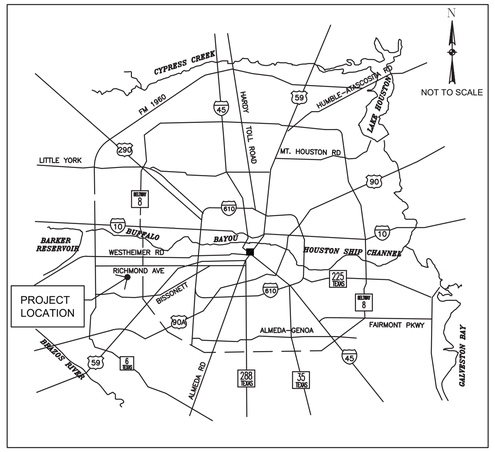
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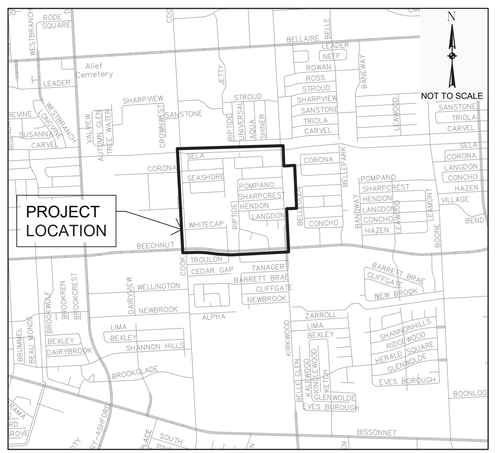
CAPITAL PROJECTS

ALIEF FOREST SOUTH AREA
PAVING AND DRAINAGE IMPROVEMENTS
DESIGN WBS NO. N-210015-0001-3

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LOCATION MAP



VICINITY MAP
KEY MAP NO 529J & 529N
COH COUNCIL DISTRICT F

MAYOR
JOHN WHITMIRE

CONTROLLER
CHRIS HOLLINS

DISTRICT
COUNCIL MEMBERS

AMY PECK DISTRICT A	TARSHA JACKSON DISTRICT B	JOE PANZARELLA DISTRICT C	CAROLYN EVANS–SHABAZZ DISTRICT D
FRED FLICKINGER DISTRICT E	TIFFANY D. THOMAS DISTRICT F	MARY NAN HUFFMAN DISTRICT G	MARIO CASTILLO DISTRICT H
JOAQUIN MARTINEZ DISTRICT I	EDWARD POLLARD DISTRICT J	MARTHA CASTEX–TATUM DISTRICT K	

COUNCIL MEMBERS
AT–LARGE

JULIAN RAMIREZ POSITION 1	WILLIE DAVIS POSITION 2
TWILA CARTER POSITION 3	ALEJANDRA SALINAS POSITION 4
SALLIE ALCORN POSITION 5	

NO.	DATE	REVISION	APP.

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TBPE Firm Reg. # 4575

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: KUO & ASSOCIATES, INC.
FB NO. P–6382

PARKS–FORESTRY DEPT.

METRO

HOUSTON WATER

TRANSPORTATION & DRAINAGE OPERATIONS

CAPITAL PROJECTS

SURVEY

CITY ENGINEER DATE

DIRECTOR OF HOUSTON PUBLIC WORKS DATE

FOR CITY OF HOUSTON USE ONLY

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42.	SELA LANE PLAN & PROFILE	STA 5+50 TO STA 10+00
43.	SELA LANE PLAN & PROFILE	STA 10+00 TO 15+00
44.	SELA LANE PLAN & PROFILE	STA 15+00 TO STA 20+00
45.	SELA LANE PLAN & PROFILE	STA 20+00 TO END
46.	CORONA LANE (WEST) PLAN & PROFILE	STA 1+00 TO STA 5+00
47.	CORONA LANE (WEST) PLAN & PROFILE	STA 5+00 TO STA 10+00
48.	CORONA LANE (WEST) PLAN & PROFILE	STA 10+00 TO END
49.	CORONA LANE (EAST) PLAN & PROFILE	STA 1+00 TO STA 5+00
50.	CORONA LANE (EAST) PLAN & PROFILE	STA 5+00 TO STA 10+00
51.	CORONA LANE (EAST) PLAN	STA 10+00 TO END
52.	CORONA LANE (EAST) PROFILE	STA 10+00 TO END
53.	SEA SHORE DRIVE (WEST) PLAN & PROFILE	STA 1+00 TO STA 5+00
54.	SEA SHORE DRIVE (WEST) PLAN & PROFILE	STA 5+00 TO STA 10+00
55.	SEA SHORE DRIVE (WEST) PLAN & PROFILE	STA 10+00 TO END
56.	SEA SHORE DRIVE (EAST) PLAN & PROFILE	STA 1+00 TO STA 5+00
57.	SEA SHORE DRIVE (EAST) PLAN & PROFILE	STA 5+00 TO STA 10+00
58.	SEA SHORE DRIVE (EAST) PLAN	STA 10+00 TO END
59.	SEA SHORE DRIVE (EAST) PROFILE	STA 10+00 TO END

SHT. NO.	DESCRIPTION	
60.	POMPANO LANE (WEST) PLAN & PROFILE	STA 1+00 TO STA 5+00
61.	POMPANO LANE(WEST) PLAN & PROFILE	STA 5+00 TO STA 10+00
62.	POMPANO LANE (WEST) PLAN & PROFILE	STA 10+00 TO END
63.	POMPANO LANE (EAST) PLAN & PROFILE	STA 1+00 TO STA 5+00
64.	POMPANO LANE (EAST) PLAN & PROFILE	STA 5+00 TO STA 10+00
65.	POMPANO LANE (EAST) PLAN	STA 10+00 TO END
66.	POMPANO LANE (EAST) PROFILE	STA 10+00 TO END
67.	SHARPCREST STREET PLAN & PROFILE	STA 1+00 TO STA 5+50
68.	SHARPCREST STREET PLAN & PROFILE	STA 5+50 TO STA 10+00
69.	SHARPCREST STREET PLAN	STA 10+00 TO END
70.	SHARPCREST STREET PROFILE	STA 10+00 TO END
71.	HENDON LANE PLAN	STA 1+00 TO 5+00
72.	HENDON LANE PROFILE	STA 1+00 TO 5+00
73.	HENDON LANE PLAN	STA 5+00 TO 10+00
74.	HENDON LANE PROFILE	STA 5+00 TO 10+00
75.	HENDON LANE PLAN	STA 10+00 TO END
76.	HENDON LANE PROFILE	STA 10+00 TO END
77.	LANGDON LANE PLAN	STA 1+00 TO STA 3+00
78.	LANGDON LANE PROFILE	STA 1+00 TO STA 3+00
79.	LANGDON LANE PLAN	STA 3+00 TO STA 5+00
80.	LANGDON LANE PROFILE	STA 3+00 TO STA 5+00
81.	LANGDON LANE PLAN	STA 5+00 TO STA 9+50
82.	LANGDON LANE PROFILE	STA 5+00 TO STA 9+50
83.	LANGDON LANE PLAN	STA 9+50 TO STA END
84.	LANGDON LANE PROFILE	STA 9+50 TO STA END
85.	WHITE CAP LANE (WEST) PLAN & PROFILE	STA 1+00 TO STA 5+00
86.	WHITE CAP LANE (WEST) PLAN & PROFILE	STA 5+00 TO STA 10+00
87.	WHITE CAP LANE (WEST) PLAN & PROFILE	STA 10+00 TO END
88.	WHITE CAP LANE (EAST) PLAN	STA 1+00 TO STA 5+10
89.	WHITE CAP LANE (EAST) PROFILE	STA 1+00 TO STA 5+10
90.	WHITE CAP LANE (EAST) PLAN	STA 5+10 TO STA 9+00
91.	WHITE CAP LANE (EAST) PROFILE	STA 5+10 TO STA 9+00
92.	WHITE CAP LANE (EAST) PLAN	STA 9+00 TO END
93.	WHITE CAP LANE (EAST) PROFILE	STA 9+00 TO END
94.	SELA LANE (WEST) PLAN & PROFILE	STA 1+00 TO END
95.	SELA LANE (EAST) PLAN & PROFILE	STA 1+00 TO END
96.	POMPANO LANE (NORTH) PLAN & PROFILE	STA 1+00 TO END
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98.	BEECH COVE LANE (SOUTH) PLAN & PROFILE	STA 6+00 TO END
99.	BEECH COVE LANE (NORTH) PLAN & PROFILE	STA 1+00 TO STA 5+00
100.	BEECH COVE LANE (NORTH) PLAN & PROFILE	STA 5+00 TO STA 10+00
101.	BEECH COVE LANE (NORTH) PLAN & PROFILE	STA 10+00 TO END
102.	AQUA LANE PLAN & PROFILE	STA 1+00 TO END
103.	SHINER LANE PLAN & PROFILE	STA 1+00 TO END
104.	STARFISH LANE PLAN	STA 1+00 TO END
105.	STARFISH LANE PROFILE	STA 1+00 TO END
106.	SOUTH KIRKWOOD ROAD PLAN & PROFILE	STA 12+00 TO STA 17+00
107.	SOUTH KIRKWOOD ROAD PLAN & PROFILE	STA 17+00 TO STA 22+00
108.	SOUTH KIRKWOOD ROAD PLAN & PROFILE	STA 22+00 TO STA 27+00
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113.	RIPTIDE DRIVE (SOUTH) PLAN	STA 10+00 TO STA 15+00
114.	RIPTIDE DRIVE (SOUTH) PROFILE	STA 10+00 TO STA 15+00
115.	RIPTIDE DRIVE (SOUTH) PLAN	STA 15+00 TO STA 20+00
116.	RIPTIDE DRIVE (SOUTH) PROFILE	STA 15+00 TO STA 20+00
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118.	RIPTIDE DRIVE (NORTH 1) PLAN & PROFILE	STA 1+00 TO END
119.	RIPTIDE DRIVE (NORTH 2) PLAN & PROFILE	STA 1+00 TO END
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SHT. NO.	DESCRIPTION	

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NO.	DATE	REVISION	APP.

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P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

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N-210015-0001-3	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
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SHEET NO. 2 OF 369	

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NO.	DATE	REVISION	APP.

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HOUSTON PUBLIC WORKS

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(SHEET 2 OF 3)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
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CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 3A OF 369	

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301.	LAYOUT FOR PHASE 5 STEP 3	(SHEET 1 OF 3)
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303.	LAYOUT FOR PHASE 5 STEP 3	(SHEET 3 OF 3)
304.	LAYOUT FOR PHASE 5 STEP 4	(SHEET 1 OF 3)
305.	LAYOUT FOR PHASE 5 STEP 4	(SHEET 2 OF 3)
306.	LAYOUT FOR PHASE 5 STEP 4	(SHEET 3 OF 3)
307.	LAYOUT FOR PHASE 5 STEP 5 & 5.1	
308.	LAYOUT FOR PHASE 5 STEP 6 & 6.1	
309.	LAYOUT FOR PHASE 5 STEP 7	(SHEET 1 OF 2)
310.	LAYOUT FOR PHASE 5 STEP 7	(SHEET 1 OF 2)
311.	LAYOUT FOR PHASE 5 STEP 8	(SHEET 1 OF 2)
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313.	LAYOUT FOR PHASE 5 STEP 9 & 9.1	
314.	LAYOUT FOR PHASE 5 STEP 10	
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321.	LAYOUT FOR PHASE 5 STEP 16	(SHEET 2 OF 2)
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323.	LAYOUT FOR PHASE 5 STEP 17	(SHEET 2 OF 2)
324.	LAYOUT FOR PHASE 5 STEP 18	(SHEET 1 OF 2)
325.	LAYOUT FOR PHASE 5 STEP 18	(SHEET 2 OF 2)
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328.	TRAFFIC CONTROL PLAN DETAILS	
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STORMWATER POLLUTION PREVENTION PLAN

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TREE PROTECTION PLAN

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NO.	DATE	REVISION	APP.

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ENGINEER: RAHUL B MENON, P.E
P.E.Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

INDEX OF DRAWINGS (SHEET 3 OF 3)

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EXISTING PLAN VIEW

- WATER METER
- WATER VALVE (GATE)
- WATER VALVE (BUTTERFLY)
- FIRE HYDRANT/FLUSHING VALVE
- TAPPING SLEEVE & VALVE
- REDUCER
- ROUND CONNECTION
- SANITARY SEWER CLEANOUT & MANHOLE
- STORM SEWER MANHOLE
- STORM SEWER INLETS
- CULVERT PIPE AND HEADWALL
- TOP OF CURB ELEVATION
- GUTTER ELEVATION
- TOP OF PAVEMENT ELEVATION
- CONTOUR LINE
- ROW LINE
- PROPERTY LINE
- LOT LINES
- EASEMENT LINE
- CENTER LINE OF ROW
- TRANSIT LINE
- EDGE OF DITCHES
- CENTER LINE OF DITCHES
- EDGE OF DITCHES
- FENCE LINE, WOOD
- FENCE LINE, CHAIN LINK
- FENCE LINE, BARBED WIRE
- FENCE LINE, HOG WIRE
- EDGE OF CONCRETE
- CURB LINE
- CONCRETE WALK
- EDGE OF ASPHALT
- EDGE OF SHELL OR GRAVEL
- DIMENSION LINE
- AERIAL POWER LINE
- UNDERGROUND POWER LINE
- GAS LINE
- UNKNOWN UNDERGROUND LINE
- OIL PIPELINE
- UNDERGROUND TELECOMM LINE W/VAULT
- AERIAL TELECOMM LINE
- RAILROAD LINE
- WATER LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- SANITARY SEWER FORCE MAIN
- RECLAIMED WATER LINE
- NON–POTABLE WATER LINE
- GAS METER
- GAS VALVE
- PROPANE LINE
- STEAM LINE

PROPOSED PLAN VIEW

- WATER METER
- WATER VALVE (GATE)
- WATER VALVE (BUTTERFLY)
- FIRE HYDRANT/FLUSHING VALVE
- TAPPING SLEEVE & VALVE
- REDUCER
- ROUND CONNECTION
- SANITARY SEWER CLEANOUT & MANHOLE
- STORM SEWER MANHOLE
- STORM SEWER INLETS
- CULVERT PIPE AND HEADWALL
- TOP OF CURB ELEVATION
- GUTTER ELEVATION
- TOP OF PAVEMENT ELEVATION
- CONTOUR LINE
- ROW LINE
- PROPERTY LINE
- LOT LINES
- EASEMENT LINE
- CENTER LINE OF ROW
- TRANSIT LINE
- EDGE OF DITCHES
- CENTER LINE OF DITCHES
- EDGE OF DITCHES
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- FENCE LINE, CHAIN LINK
- FENCE LINE, BARBED WIRE
- FENCE LINE, HOG WIRE
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- CURB LINE
- CONCRETE WALK
- EDGE OF ASPHALT
- EDGE OF SHELL OR GRAVEL
- DIMENSION LINE
- AERIAL POWER LINE
- UNDERGROUND POWER LINE
- GAS LINE
- UNKNOWN UNDERGROUND LINE
- OIL PIPELINE
- UNDERGROUND TELCOMM LINE W/ VAULT
- AERIAL TELECOMM LINE
- RAILROAD LINE
- WATER LINE
- DIP W/RESTRAINED JOINTS
- RESTRAINED JOINT SECTION
- SANITARY SEWER LINE
- STORM SEWER LINE
- SANITARY SEWER FORCE MAIN
- RECLAIMED WATER LINE
- NON–POTABLE WATER LINE
- GAS METER
- GAS VALVE
- PROPANE LINE
- STEAM LINE
- MATCH LINE

EXISTING PLAN VIEW

- BUILDING, RESIDENTIAL
- BUILDING, COMMERCIAL
- TREE
- HEDGE
- IRON PIPE OR IRON ROD MONUMENT
- POINT OF INTERSECTION (PI)
- POINT OF CURVE (PC)
POINT OF TANGENCY (PT)
- POWER POLE
- POWER POLE W/DOWN GUY

PROPOSED PLAN VIEW

- BUILDING, RESIDENTIAL
- BUILDING, COMMERCIAL
- TREE
- HEDGE
- IRON PIPE OR IRON ROD MONUMENT
- POINT OF INTERSECTION (PI)
- POINT OF CURVE (PC)
POINT OF TANGENCY (PT)
- POWER POLE
- POWER POLE W/DOWN GUY

MISC STANDARD ELEMENTS

- COH NORTH ARROW
- COH BAR SCALE
- REVISION CLOUD/DELTA
- DETAIL/SECTION TITLE

EXISTING PROFILE VIEW

- NORTH OR EAST PROPERTY LINE
- SOUTH OR WEST PROPERTY LINE
- NORTH OR EAST CURB
- SOUTH OR WEST CURB
- NORTH OR EAST DITCH
- SOUTH OR WEST DITCH
- NORTH OR EAST NATURAL GROUND
- SOUTH OR WEST NATURAL GROUND
- NORTH OR EAST CULVERT
- SOUTH OR WEST CULVERT
- CENTERLINE OF ROW
- CENTERPOINT ENERGY CONDUIT
- GAS LINE
- WESTERN UNION
- AT&T CONDUIT
- WATER LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- SANITARY SEWER FORCE MAIN
- RECLAIMED WATER LINE
- NON–POTABLE WATER LINE
- CENTERPOINT ENERGY MANHOLE
- AT&T MANHOLE
- WATER LINE MANHOLE
- SANITARY SEWER MANHOLE & CLEANOUT
- STORM SEWER MANHOLE
- STORM SEWER INLET

PROPOSED PROFILE VIEW

- NORTH OR EAST PROPERTY LINE
- SOUTH OR WEST PROPERTY LINE
- NORTH OR EAST CURB
- SOUTH OR WEST CURB
- NORTH OR EAST DITCH
- SOUTH OR WEST DITCH
- NORTH OR EAST NATURAL GROUND
- SOUTH OR WEST NATURAL GROUND
- NORTH OR EAST CULVERT
- SOUTH OR WEST CULVERT
- CENTERLINE OF ROW
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APP.	DATE
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

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ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 4 OF 369	

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AT&T TEXAS/SWBT FACILITIES

1. THE LOCATIONS OF AT&T TEXAS/SWBT FACILITIES ARE SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.

2. THE CONTRACTOR SHALL CALL 1-800-344-8377 (TEXAS 811) A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.

3. WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF AT&T TEXAS/SWBT FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. WHEN BORING, THE CONTRACTOR SHALL EXPOSE THE AT&T TEXAS/SWBT FACILITIES.

4. WHEN AT&T TEXAS/SWBT FACILITIES ARE EXPOSED, THE CONTRACTOR WILL PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT.

5. THE PRESENCE OR ABSENCE OF AT&T TEXAS/SWBT UNDERGROUND CONDUIT FACILITIES OR BURIED CABLE FACILITIES SHOWN ON THESE PLANS DOES NOT MEAN THAT THERE ARE NO DIRECT BURIED CABLES OR OTHER CABLES IN CONDUIT IN THE AREA.

6. PLEASE CONTACT THE AT&T TEXAS DAMAGE PREVENTION MANAGER KEVIN RAY. AT (713) 614-1983 OR EMAIL HIM AT KE7896@ATT.COM, IF CABLE LOCATE REQUESTS ARE NOT COMPLETED FOR OUR AT&t TEXAS/SWBT FACILITIES.

CENTERPOINT ENERGY NOTES

CAUTION: UNDERGROUND GAS FACILITIES

THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 1-800-545-6005 OR 811 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.

- WHEN CENTERPOINT ENERGY PIPELINE MARKINGS ARE NOT VISIBLE, CALL (713) 207-5463 OR (713) 945-8037 (7:00 A.M. TO 4:30 P.M.) FOR STATUS OF LINE LOCATION REQUEST BEFORE EXCAVATION BEGINS.
- WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.
- WHEN CENTERPOINT ENERGY FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PIPING.
- FOR EMERGENCIES REGARDING GAS LINES CALL (713) 659-2111 OR (713) 207-4200.

THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

WARNING: OVERHEAD ELECTRICAL LINES

OVERHEAD LINES MAY EXIST ON THE PROPERTY. THE LOCATION OF OVERHEAD LINES HAS NOT BEEN SHOWN ON THESE DRAWINGS AS THE LINES ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 752, HEALTH & SAFETY CODE FORBIDS ACTIVITIES THAT OCCUR IN CLOSE PROXIMITY TO HIGH VOLTAGE LINES, SPECIFICALLY:

- ANY ACTIVITY WHERE PERSON OR THINGS MAY COME WITHIN SIX(6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES; AND
- OPERATING A CRANE, DERRICK, POWER SHOVEL, DRILLING RIG, PILE DRIVER, HOISTING EQUIPMENT, OR SIMILAR APPARATUS WITHIN 10 FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES.

PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED CALL CENTERPOINT ENERGY AT (713) 207-2222.

ACTIVITIES ON/OR ACROSS CENTERPOINT ENERGY FEE OR EASEMENT PROPERTY

NO APPROVAL TO USE, CROSS OR OCCUPY CENTERPOINT FEE OR EASEMENT PROPERTY IS GIVEN. IF YOU NEED TO USE CENTERPOINT PROPERTY, PLEASE CONTACT OUR SURVEYING & RIGHT OF WAY DIVISION AT (713) 207-6348 OR (713) 207-5769.

WARNING: UNDERGROUND ELECTRICAL LINES

THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 1-800-545-6005 OR 811 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.

- ALL INFORMATION CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OR ALL INCLUSIVE. THE CONTRACTORS ARE RESPONSIBLE MAKING THEIR OWN DETERMINATIONS AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND PIPELINES, CONDUITS, AND STRUCTURES BY CONTACTING OWNERS OF UNDERGROUND UTILITIES OR BY EXCAVATING IN ADVANCE OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE EXACT LOCATION OF ALL UTILITIES WHEN AND WHERE THEY FALL IN THE PATH OF CONSTRUCTION.
- THE CONTRACTOR IS ALSO RESPONSIBLE FOR CONTACTING THE UTILITY COORDINATING COMMITTEE AT (713) 223-4567 AND TEXAS ONE CALL AT 1-800-245-4545, FORTY-EIGHT (48) HOURS PRIOR TO ANY CONSTRUCTION.
- THE LOCATION OF ANY CENTERPOINT ENERGY UTILITIES ARE SHOWN IN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. THEY AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
- ALL PROPOSED FACILITIES SHALL MAINTAIN 12" CLEAR FROM ALL EXISTING UTILITIES.

GENERAL CONSTRUCTION NOTES

1. THE FLOW LINES AND LOCATIONS OF ALL UNDERGROUND UTILITIES MUST BE LOCATED BY WHATEVER MEANS MAY BE REQUIRED (METAL DETECTION EQUIPMENT, PROBES EXCAVATION, SURVEY, COORDINATION WITH UTILITY COMPANIES) BY THE CONTRACTOR PRIOR THE CONSTRUCTION. ALL FIELD VERIFICATION WORK AND UTILITY ADJUSTMENTS SHALL BE COMPLETED PRIOR TO EXCAVATION FOR PROPOSED UTILITIES. NO SEPARATE PAY: INCLUDE COST IN UNIT PRICE FOR WORK IN APPROPRIATE SECTIONS.

2. SERVICES ARE TO BE TRANSFERRED BETWEEN EXISTING AND PROPOSED WATER LINES WITH MINIMUM DISRUPTION OF SERVICE. EXISTING WATER LINES MUST BE MAINTAINED IN SERVICE UNTIL SERVICE WILL TRANSFER IS DONE

3. CALL THE TRAFFIC MANAGEMENT AND MAINTENANCE DIVISION OF THE CITY OF HOUSTON PUBLIC WORK AND ENGINEERING DEPARTMENT WHEN WORK IS SCHEDULED NEAR SIGNAL CONDUITS WITHIN THE CITY OF HOUSTON (713) 837-7280. CALL AT LEAST FIVE WORKING DAYS IN ADVANCE. THE CONTRACTOR SHALL RESPONSIBLE FOR ANY DAMAGES TO EXISTING TRAFFIC SIGNAL CABLES AS A RESULT OF CONSTRUCTION ACTIVITIES FOR FOR THE PROJECT. NO SEPARATE PAYMENT FOR REPAIR TO SIGNAL CONDUIT.

4. SERVICE LINE INSTALLATION COULD BE HINDERED BY THE CEMENT STABILIZED SAND BACKFILL. INCLUDE COST OF CROSSING CEMENT STABILIZED BACKFILL IF ENCOUNTERED DURING SERVICE LINE INSTALLATION IN THE UNIT PRICE OF SERVICES.

5. THE CONTRACTOR TO PROVIDE CUT SHEET GROUND ELEVATIONS AND PROPOSED LINE INVERTS WITH AMOUNT OF CUT, LOCATION OF BENDS, FIRE HYDRANTS, VALVES AND OTHERS FITTINGS AT EVERY 100 FEET IN TABULAR FORMAT ON EACH STREET TO THE CITY FOR APPROVAL PRIOR TO CONSTRUCTION AT NO ADDITIONAL COST TO THE CITY.

6. CONTRACTOR MUST REFER TO THE CITY OF HOUSTON STANDARD DETAIL DRAWINGS INCLUDED IN THE CITY OF HOUSTON "STANDARD CONSTRUCTION DETAIL FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE, AND STREET PAVING" DATED OCTOBER, 2002, FOR ANY OTHER DETAILS NOT INCLUDED IN THE CONSTRUCTION DRAWINGS.

7. CONTRACTOR SHALL COORDINATE AHEAD OF TIME WITH BUSINESS OWNERS AND RESIDENTS FOR INSTALLATION OF WATER LINES IN ENCROACHED AREAS OF THE PUBLIC RIGHT-OF-WAY. NO SEPARATE PAY.

8. FOR CONSTRUCTION ACTIVITIES WITHIN PIPELINE ROW, REFER TO GENERAL REQUIREMENTS FOR CROSSING GENESIS PIPELINES ATTACHED AS PART OF THE PROJECT MANUAL.

9. TO ALLOW BETTER ROADWAY ACCESS WHILE CONSTRUCTION NO TWO CONSECUTIVE CROSS ROADS BETWEEN TIMBERSIDE DR AND BEVLIN DR SHOULD BE IN CONSTRUCTION AT THE SAME TIME.

10. FOR WORKING ON A SATURDAY CITY OF HOUSTON APPROVAL TO BE ACQUIRED 48 HRS PRIOR FOR EACH DAY.

11. AS INDICATED ON THE PLANS, INFORMATION ON EXISTING WATERLINES ALONG MOST OF THE STREETS WITHIN THE PROJECT LIMITS ARE BASED ON AS-BUILT RECORDS. THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING WATERLINES PRIOR TO INSTALLING THE PROPOSED WATERLINES AND CONNECTIONS.

CITY OF HOUSTON - HOUSTON PUBLIC WORKS TRAFFIC NOTES

CONTRACTOR OR OWNER SHALL SUBMIT TRAFFIC CONTROL PLANS WITH THE MOBILITY PERMIT APPLICATION. THE PLANS SHALL BE DRAWN TO SCALE AND SEALED BY A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS.

THE GENERAL NOTES THAT SHALL BE INCLUDED ON THE TRAFFIC CONTROL PLAN CAN BE FOUND IN CHAPTER 15 (15.12 TRAFFIC CONTROL PLAN) OF THE CITY OF HOUSTON'S (CITY) INFRASTRUCTURE DESIGN MANUAL (IDM). BELOW ARE SEVERAL KEY NOTES FROM THE IDM TO BE AWARE OF:

1. THE CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART VI OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) LATEST EDITION WITH REVISIONS DURING THE ENTIRE CONSTRUCTION PERIOD.

2. NO WORK SHALL BE PERFORMED IN RESIDENTIAL AREAS FROM 7:00PM TO 7:00AM.

3. CONTRACTOR SHALL MAINTAIN APPROVED NUMBER OF LANES OF TRAFFIC IN EACH DIRECTION DURING CONSTRUCTION WORKING HOURS. TRAFFIC CONTROL PLANS SHALL INCLUDE ONE-WAY AND/OR DETOUR PLANS. CONTRACTOR SHALL MAINTAIN ADA COMPLAINT PEDESTRIAN ACCESS TO BUS STOPS AND ADEQUATE BUS ACCESS TO THE BUS STOP.

4. CONTRACTOR SHALL COVER OPEN PAVEMENT EXCAVATIONS FOR MINOR UTILITY WORK WITH ANCHORED STEEL PLATES DURING NON-WORKING HOURS, OPEN LANES FOR NORMAL TRAFFIC FLOW WHEN FEASIBLE.

5. CONTRACTOR SHALL SECURE ROADWAY/SIDEWALK/STREET/BICYCLE FACILITY PERMITS AS DESCRIBED IN CITY OF HOUSTON ORDINANCE, CHAPTER 40 - STREETS & SIDEWALKS, SECTION 40-361 FROM HOUSTON PERMITTING CENTER (MOBILITY PERMIT SECTION AT HTTPS://GEOHUB.HOUSTONTX.GOV) BEFORE IMPLEMENTING THE TRAFFIC CONTROL PLAN. THE APPLICATION MUST BE SUBMITTED AT LEAST TEN BUSINESS DAYS PRIOR TO THE IMPLEMENTATION OF THE TRAFFIC CONTROL PLAN AND/OR BEGINNING CONSTRUCTION WORK. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PLANS, CONSTRUCTION SEQUENCING, AND CONSTRUCTION SCHEDULE WITH THE APPLICATION.

6. CONTRACTOR SHALL HAVE APPROVED TRAFFIC CONTROL PLAN AND PERMIT AT THE JOB SITE FOR INSPECTIONAT ALL TIMES.

7. ACCESS TO DRIVEWAYS ADJACENT TO THE CONSTRUCTION WORK ZONE SHALL BE MAINTAINED AT ALL TIMES AS MUCH AS POSSIBLE. ADDITIONAL CONES AND/OR DELINEATORS MAY BE REQUIRED TO DELINEATE THE DRIVEWAY ACCESS ROUTE THROUGH THE CONSTRUCTION WORK ZONE. A MINIMUM OF ONE TRAVEL LANE SHALL BE MAINTAINED ACROSS THE DRIVEWAY, UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM THE CITY OF HOUSTON.

8. ADDITIONAL OFF DUTY POLICE OFFICERS/FLAGGERS MAY BE REQUESTED TO DIRECT TRAFFIC WHEN LANES ARE BLOCKED AT THE DIRECTION OF THE CITY EVEN IF THEY ARE NOT SPECIFICALLY IDENTIFIED ON THE PROJECT PLANS.

CITY OF HOUSTON - HOUSTON PUBLIC WORKS STREET & BRIDGE CONSTRUCTION NOTES

1. FILL AREAS ON PLANS SHALL BE FILLED IN LAYERS NOT EXCEEDING 8" IN DEPTH AND EACH COMPACTED TO NOT LESS THAN 95% STANDARD PROCTOR DENSITY PRIOR TO INSTALLATION OF WATER LINE AND FILL AREA SHALL BE SEEDED AND FERTILIZED WITHIN 10 WORKING DAYS.

2. UTILITY CONTRACTOR SHALL PROVIDE TEMPORARY SILT BARRIER FENCE ON ALL NON-CURBED INLETS WHICH WILL REMAIN IN PLACE AFTER UNDERGROUND CONTRACT IS COMPLETE.

3. CONTRACTOR SHALL PROVIDE SILT BARRIER FENCE ON ALL STAGE 1 CURB INLETS.

4. EXISTING PAVEMENTS, CURBS, DRIVEWAYS, AND SIDEWALKS DAMAGED OR REMOVED DURING CONSTRUCTION SHALL BE REPLACED TO CITY OF HOUSTON STANDARDS, WITH LATEST ADDENDA AND AMENDMENTS THERETO.

5. CONDITION OF THE ROAD AND/OR RIGHT-OF-WAY UPON COMPLETION OF JOB SHALL BE AS GOOD AS OR BETTER THAN PRIOR TO STARTING WORK.

6. EXPOSED 15" OF REINFORCING STEEL AT PROPOSED SAWED JOINT IF NO REINFORCING STEEL EXISTS, USE HORIZONTAL DOWELS. HORIZONTAL DOWELS SHALL BE #6 BARS 24" LONG 24" C-C DRILLED AND EMBEDDED 8" INTO THE CENTER OF THE EXISTING SLAB WITH "PO ROC" OR EQUAL.

7. WHEELCHAIR RAMPS SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF HOUSTON STANDARDS AT ALL INTERSECTIONS WHERE SIDEWALKS EXIST AND THE EXISTING CURB OR SIDEWALK IS DAMAGED OR REMOVED DURING CONSTRUCTION.

8. PRIOR TO STREET CONSTRUCTION, THE CONTRACTOR SHALL CONTACT HOUSTON PUBLIC WORKS AT (PHONE) 832-394-9578 AND COMPLY WITH ALL REQUIREMENTS FOR THE ISSUANCE OF NECESSARY PERMITS/WORK ORDERS FOR STREET CONSTRUCTION.

9. DOUBLE REFLECTORIZED BLUE TRAFFIC MARKERS SHALL BE PLACED 6-INCHES OFFSET OF THE CENTERLINE OF ALL FIRE HYDRANT LOCATIONS BY THE PAVING CONTRACTOR. HYDRANTS LOCATED AT INTERSECTIONS SHALL HAVE A BUTTON PLACED ON EACH STREET.

ABBREVIATIONS

AB	ALL BELL
ABAN	ABANDONED
ABS	ABSOLUTE
ADJ	ADJUSTMENT
ALUM	ALUMINUM
APPROX	APPROXIMATE
BC	BACK OF CURB
℄	BASELINE
BLDG	BUILDING
CB	CATCH BASIN
℄	CENTER LINE
CLR	CLEARANCE
CMP	CORRUGATED METAL PIPE
COH	CITY OF HOUSTON
CONC	CONCRETE
CONT	CONTROL OR CONTINUATION
CPP	CORRUGATED PLASTIC PIPE
DI	DUCTILE IRON PIPE
DIA	DIAMETER
DWG	DRAWING
ELEV	ELEVATION
ELECT	ELECTRICAL
ESMT	EASEMENT
EQUIP	EQUIPMENT
EXIST	EXISTING
FF	FACE TO FACE
FH	FIRE HYDRANT
FL	FLOW LINE
FLR	FLOOR
FM	FORCE MAIN
HMAC	HOT MIXED ASPHALT CONCRETE
HP	HIGH PRESSURE
ID	INSIDE DIAMETER
INV	INVERT
IP	INTERMEDIATE PRESSURE
IPB	INLET PROTECTION BARRIER
LF	LINEAR FEET
MH	MANHOLE
MON	MONUMENT
MPLCo	MOBIL PIPELINE COMPANY
NA	NOT APPLICABLE
NFIF	NOT FOUND IN FIELD
NFV	NOT FIELD VERIFIED
NO	NUMBER
NTS	NOT TO SCALE
OC	ON CENTER
OD	OUTSIDE DIAMETER
PC	POINT OF CURVATURE
PI	POINT OF INTERSECTION
PCCP	PRESTRESSED CONCRETE CYLINDER PIPE
PROP	PROPOSED
PH	POST HYDRANT
PLA	PLASTIC
PT	POINT OF TANGENCY
PVMT	PAVEMENT
R	FROM RECORD DWGS (NFV)
R	RADIUS
R & R	REMOVE AND REPLACE
RCP	REINFORCED CONCRETE PIPE
REF	REFERENCE
REINF	REINFORCING
REQ'D	REQUIRED
RFB	REINFORCED FILTER FABRIC BARRIER
ROW	RIGHT OF WAY
SAN	SANITARY
SC	SERVICE CONNECTION
SD	SANITARY DRAIN
SEB	SMALL END BELL
STL	STEEL
SWBT	SOUTHWESTERN BELL TELEPHONE COMPANY
SWR	SEWER
SHT	SHEET
STA	STATION
STM	STORM
TC	TOP OF CURB
TEMP	TEMPORARY
TP	TOP OF PAVEMENT
TYP	TYPICAL
UE	UTILITY EASEMENT
VCP	VITRIFIED CLAY PIPE
WL	WATER LINE
WV	WATER VALVE
WM	WATER METER

NO.	DATE	REVISION	APP.

NOTICE:
FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811

VERIFICATION OF PRIVATE UTILITY LINES

Date

CenterPoint Energy natural gas utilities shown. (Gas service lines are not shown). This signature not be used for conflict verification.

Signature valid for six months.

Date

CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY. (This signature verifies existing underground facilities – not to be used for conflict verification)

Signature valid for six months.

Date

Approved for AT&T underground conduit facilities only.
Signature valid for one year.

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P-6382

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

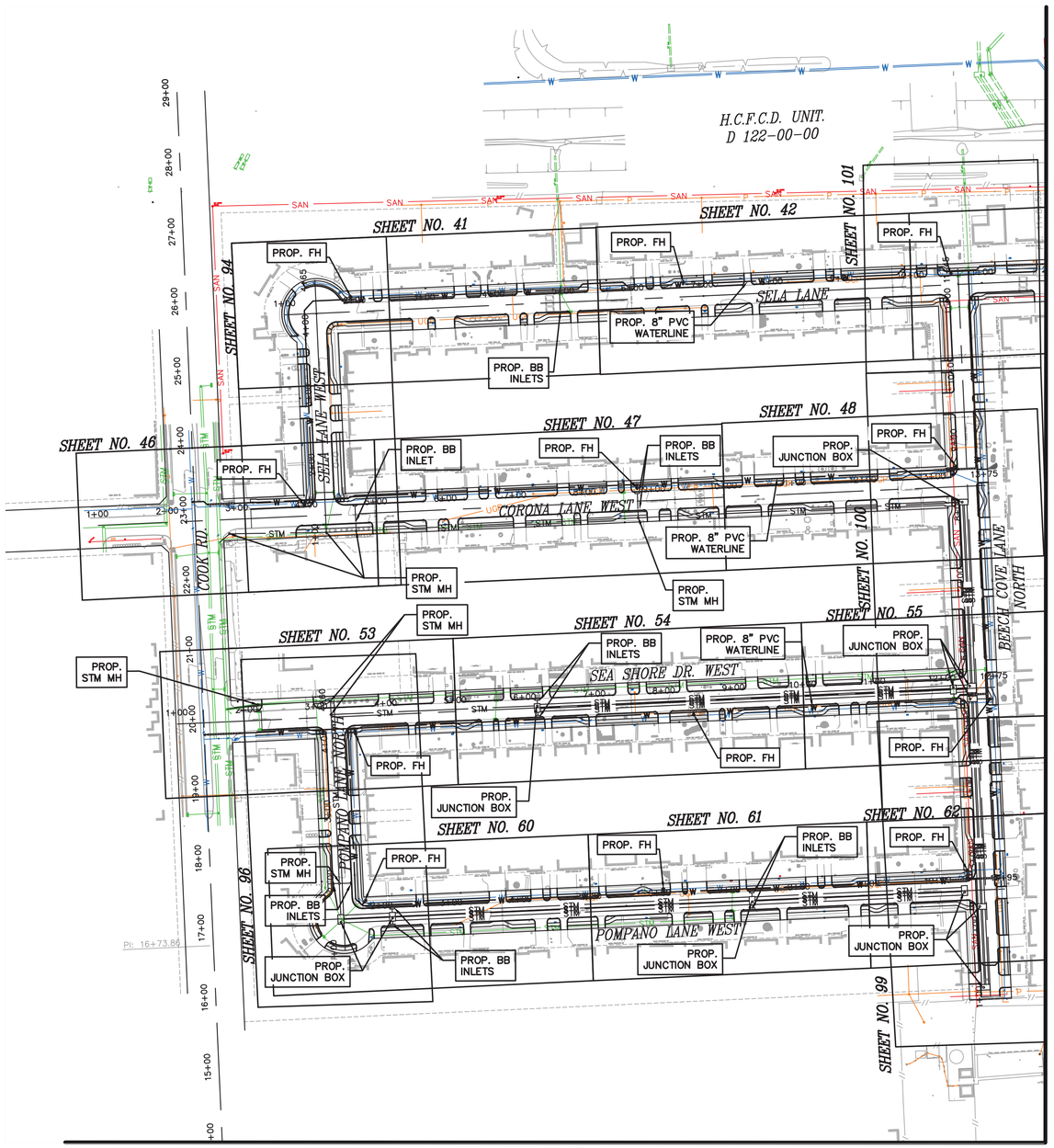
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

GENERAL NOTES

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 5 OF 369	

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MATCH LINE
SHEET 3 OF 4

MATCH LINE
SHEET 2 OF 4

N

100 0 50 100 200

SCALE: 1" = 100'-0" FEET FOR 22"X34" SHEET

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OVERALL LAYOUT
(SHEET 1 OF 4)

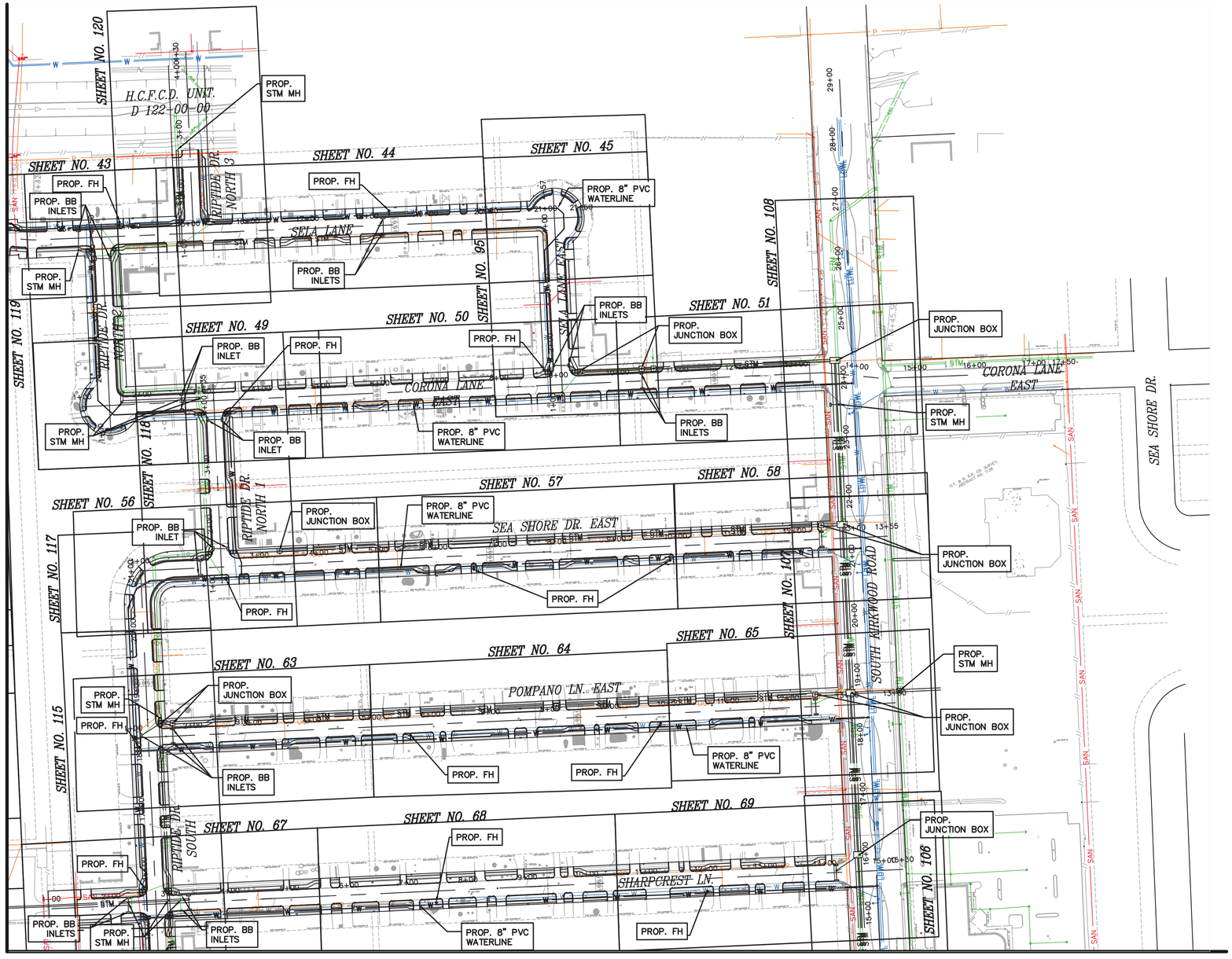
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1" = 100'	
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ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 6 OF 369	

PLOTTED: 8/13/2026 4:38 PM

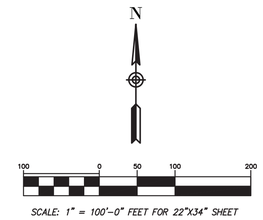
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MATCH LINE
SHEET 1 OF 4



MATCH LINE
SHEET 4 OF 4



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P.E. Reg No: 130533
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OVERALL LAYOUT (SHEET 2 OF 4)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
1" = 100'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 7 OF 369	

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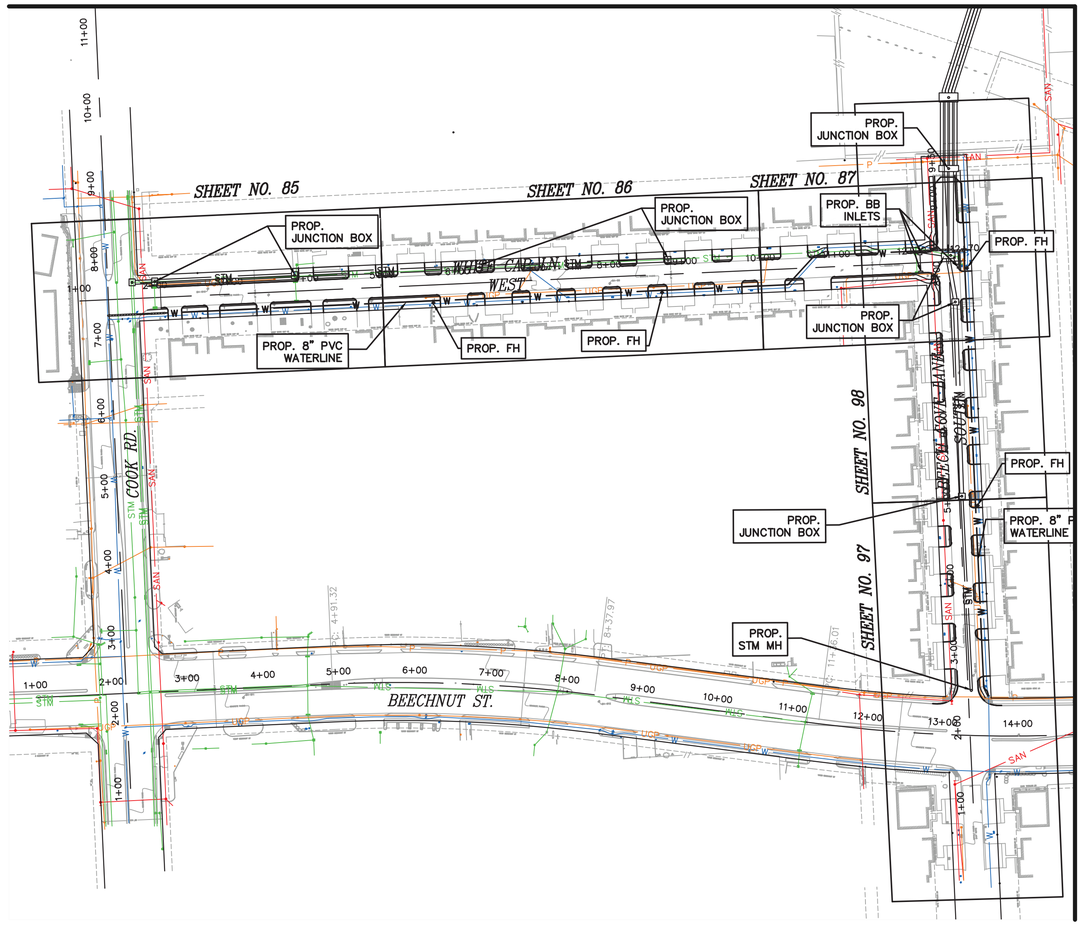
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SCALE: 1" = 100'-0" FEET FOR 22"X34" SHEET

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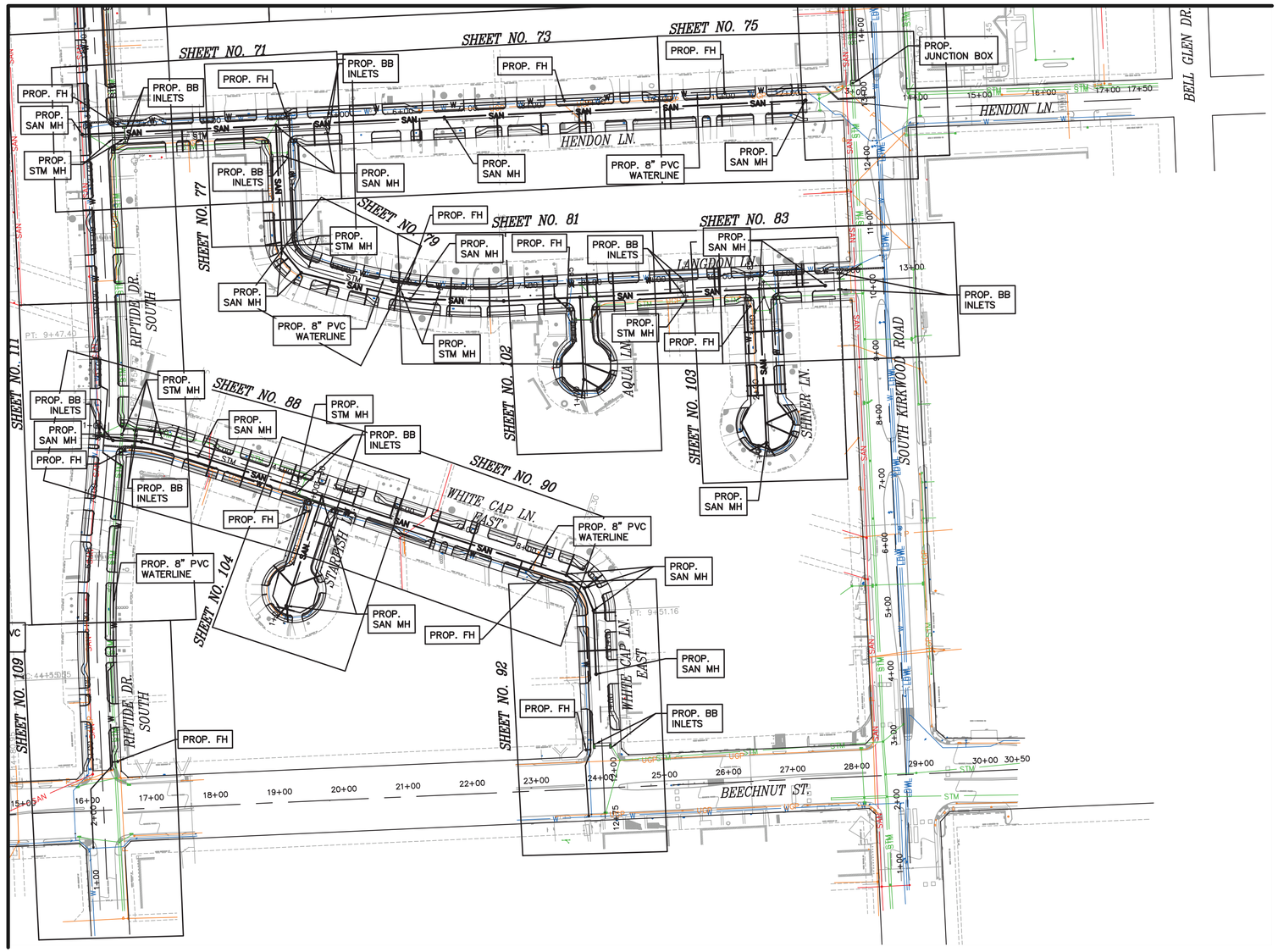
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OVERALL LAYOUT
(SHEET 3 OF 4)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
1" = 100'	
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ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 8 OF 369	

MATCH LINE
SHEET 2 OF 4



MATCH LINE
SHEET 3 OF 4

N

100 0 50 100 200

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P.E. Reg No: 130533
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OVERALL LAYOUT (SHEET 4 OF 4)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
1" = 100'	
CITY OF HOUSTON PM	
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SHEET NO. 9 OF 369	

PLOTTED: 8/13/2026 4:39 PM

FILE PATH: P:\ACTIVE\18PV97 - 2024 Update\Ph II\Working\CAD\18PV97_5_Overall Layout.dwg

Alignment Name: CL-Aqua Ln
Alignment Description:
Alignment Style: Alignment\Baseline

		Station	Northing	Easting
Element: Linear				
POT	( )	1+00.000	13816217.2	3051696.41
POT	( )	2+85.000	13816402.0	3051687.67
Tangential Direction:		N2.707°W		
Tangential Length:		185		

Alignment Name: CL-Beechcove Ln1
Alignment Description:
Alignment Style: Alignment\Baseline

		Station	Northing	Easting
Element: Linear				
POT	( )	1+00.000	13815474.8	3050659.68
POT	( )	9+50.000	13816323.9	3050621.10
Tangential Direction:		N2.602°W		
Tangential Length:		850		

Alignment Name: CL-Beechcove Ln2
Alignment Description:
Alignment Style: Alignment\Baseline

		Station	Northing	Easting
Element: Linear				
POT	( )	1+00.000 R1	13816993.3	3050592.44
POT	( )	11+45.000	13818037.2	3050545.35
Tangential Direction:		N2.583°W		
Tangential Length:		1045		

Alignment Name: CL-Corona Ln
Alignment Description:
Alignment Style: Alignment\Baseline

		Station	Northing	Easting
Element: Linear				
POT	( )	1+00.000 R1	13817669.2	3049310.68
POT	( )	13+75.000	13817726.7	3050584.39
Tangential Direction:		N87.417°E		
Tangential Length:		1275		

Alignment Name: CL-Corona Ln2
Alignment Description:
Alignment Style: Alignment\Baseline

		Station	Northing	Easting
Element: Linear				
POT	( )	1+00.000 R1	13817737.2	3050799.63
PI	( )	13+45.299	13817794.3	3052043.62
Tangential Direction:		N87.370°E		
Tangential Length:		1245.299		
Element: Linear				
PI	( )	13+45.299	13817794.3	3052043.62
PI	( )	14+45.359	13817784.6	3052143.20
Tangential Direction:		S84.404°E		
Tangential Length:		100.059		
Element: Linear				
PI	( )	14+45.359	13817784.6	3052143.20
POT	( )	17+50.000	13817796.0	3052447.63
Tangential Direction:		N87.841°E		
Tangential Length:		304.641		

Alignment Name: CL-Hendon Ln
Alignment Description:
Alignment Style: Alignment\Baseline

		Station	Northing	Easting
Element: Linear				
POT	( )	1+00.000 R1	13816620.3	3050910.63
PI	( )	12+86.031	13816676.3	3052095.33
Tangential Direction:		N87.293°E		
Tangential Length:		1186.031		
Element: Linear				
PI	( )	12+86.031	13816676.3	3052095.33
PI	( )	13+87.001	13816665.6	3052195.73
Tangential Direction:		S83.869°E		
Tangential Length:		100.97		
Element: Linear				
PI	( )	13+87.001	13816665.6	3052195.73
PI	( )	15+11.453	13816670.1	3052320.10
Tangential Direction:		N87.931°E		
Tangential Length:		124.453		
Element: Linear				
PI	( )	15+11.453	13816670.1	3052320.10
POT	( )	17+50.000	13816679.6	3052558.45
Tangential Direction:		N87.704°E		
Tangential Length:		238.547		

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P.E. Reg No: 134936
DATE: JULY 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA
PAVING AND DRAINAGE
IMPROVEMENTS

HORIZONTAL ALIGNMENT DATA
SHEET 1 OF 5

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
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CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 10 OF 369	

FILE:P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\Transportation\Sheets\HAD\97_HAD.dgn
DATE:8/7/2026

Alignment Name: CL-Langdon ln
Alignment Description:
Alignment Style: Alignment\Baseline

		Station	Northing	Easting
Element: Linear				
POT	( )	1+00.000	13816650.7	3051214.89
PC	( )	2+86.001	13816465	3051223.67
Tangential Direction:		S2.707°E		
Tangential Length:		186.001		
Element: Circular				
PC	( )	2+86.001	13816465	3051223.67
PI	( )	3+22.991	13816428.0	3051225.42
CC	( )		13816467.5	3051278.61
PCC	( )	3+51.128	13816415.7	3051260.30
Radius:		55		
Delta:		67.846° Left		
Degree of Curvature (Arc):		341.778°		
Length:		65.128		
Tangent:		36.991		
Chord:		61.389		
Middle Ordinate:		9.362		
External:		11.282		
Back Tangent Direction:		S2.707°E		
Back Radial Direction:		S87.293°		
Chord Direction:		S36.630°E		
Ahead Radial Direction:		S19.447°		
Ahead Tangent Direction:		S70.553°E		
Element: Circular				
PCC	( )	3+51.128	13816415.7	3051260.30
PI	( )	5+07.748	13816363.5	3051407.99
CC	( )		13817170.0	3051526.65
PT	( )	6+60.455	13816370.9	3051564.43
Radius:		800		
Delta:		22.154° Left		
Degree of Curvature (Arc):		23.497°		
Length:		309.327		
Tangent:		156.62		
Chord:		307.403		
Middle Ordinate:		14.904		
External:		15.187		
Back Tangent Direction:		S70.553°E		
Back Radial Direction:		S19.447°		
Chord Direction:		S81.630°E		
Ahead Radial Direction:		S2.707°E		
Ahead Tangent Direction:		N87.293°E		
Element: Linear				
PT	( )	6+60.455	13816370.9	3051564.43
POT	( )	13+00.000	13816401.1	3052203.26
Tangential Direction:		N87.293°E		
Tangential Length:		639.545		

Alignment Name: CL-Pompano Ln
Alignment Description:
Alignment Style: Alignment\Baseline

		Station	Northing	Easting
Element: Linear				
POT	( )	1+00.000 R1	13817102.5	3049618.53
POT	( )	10+95.000	13817147.4	3050612.52
Tangential Direction:		N87.417°E		
Tangential Length:		995		

Alignment Name: CL-Pompano Ln1
Alignment Description:
Alignment Style: Alignment\Baseline

		Station	Northing	Easting
Element: Linear				
POT	( )	1+00.000	13817059.6	3049665.51
POT	( )	4+60.000	13817419.2	3049649.29
Tangential Direction:		N2.583°W		
Tangential Length:		360		

Alignment Name: CL-Pompano Ln2
Alignment Description:
Alignment Style: Alignment\Baseline

		Station	Northing	Easting
Element: Linear				
POT	( )	1+00.000 R1	13817180.9	3050885.111
POT	( )	13+80.000	13817240.0	3052163.74
Tangential Direction:		N87.352°E		
Tangential Length:		1280		

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PAVING AND DRAINAGE
IMPROVEMENTS

HORIZONTAL ALIGNMENT DATA
SHEET 2 OF 5

WBS NUMBER
N-210015-0001-3

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DRAWING SCALE
N.T.S.

CITY OF HOUSTON PM
ROBERT C. MILES, P.E., CCM, ENV SP

FILE:P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\Transportation\Sheets\HAD\97_HAD.dgn
DATE:8/7/2026

Alignment Name: CL-Riptide Dr
Alignment Description:
Alignment Style: Alignment\Baseline

		Station	Northing	Easting
Element: Linear				
POT	( )	1+00.000 R1	13815464.0	3050948.06
PC	( )	4+15.049 R1	13815778.8	3050934.03
Tangential Direction:		N2.553°W		
Tangential Length:		315.049		
Element: Circular				
PC	( )	4+15.049 R1	13815778.8	3050934.03
PI	( )	5+47.648 R1	13815911.2	3050928.13
CC	( )		13815857.4	3052697.28
PRC	( )	6+79.750 R1	13816043.1	3050942.08
Radius:		1765		
Delta:		8.593° Right		
Degree of Curvature (Arc):		10.650°		
Length:		264.701		
Tangent:		132.599		
Chord:		264.453		
Middle Ordinate:		4.96		
External:		4.974		
Back Tangent Direction:		N2.553°W		
Back Radial Direction:		N87.447°E		
Chord Direction:		N1.744°E		
Ahead Radial Direction:		S83.960°E		
Ahead Tangent Direction:		N6.040°E		
Element: Circular				
PRC	( )	6+79.750 R1	13816043.1	3050942.08
PI	( )	8+13.831 R1	13816176.4	3050956.19
CC	( )		13816228.8	3049186.88
PT	( )	9+47.398 R1	13816310.4	3050949.99
Radius:		1765		
Delta:		8.688° Left		
Degree of Curvature (Arc):		10.650°		
Length:		267.648		
Tangent:		134.081		
Chord:		267.391		
Middle Ordinate:		5.071		
External:		5.086		
Back Tangent Direction:		N6.040°E		
Back Radial Direction:		S83.960°E		
Chord Direction:		N1.696°E		
Ahead Radial Direction:		N87.352°E		
Ahead Tangent Direction:		N2.648°W		
Element: Linear				
PT	( )	9+47.398 R1	13816310.4	3050949.99
POT	( )	21+00.000	13817461.7	3050896.73
Tangential Direction:		N2.648°W		
Tangential Length:		1152.602		

Alignment Name: CL-Riptide Dr2
Alignment Description:
Alignment Style: Alignment\Baseline

		Station	Northing	Easting
Element: Linear				
POT	( )	1+00.000	13817694.3	3050846.65
POT	( )	4+50.000	13818043.9	3050830.59
Tangential Direction:		N2.630°W		
Tangential Length:		350		

Alignment Name: CL-Riptide Dr3
Alignment Description:
Alignment Style: Alignment\Baseline

		Station	Northing	Easting
Element: Linear				
POT	( )	1+00.000	13817440.6	3051033.69
POT	( )	4+35.000	13817775.3	3051018.32
Tangential Direction:		N2.630°W		
Tangential Length:		335		

Alignment Name: CL-Riptide Dr4
Alignment Description:
Alignment Style: Alignment\Baseline

		Station	Northing	Easting
Element: Linear				
POT	( )	1+00.000 R1	13818003.28	3050986.374
POT	( )	4+30.000 R1	13818332.99	3050972.485
Tangential Direction:		N2.412°W		
Tangential Length:		330		

Alignment Name: CL-Seashore Dr1
Alignment Description:
Alignment Style: Alignment\Baseline

		Station	Northing	Easting
Element: Linear				
POT	( )	1+00.000 R1	13817384.12	3049424.623
POT	( )	12+75.000 R1	13817437.07	3050598.429
Tangential Direction:		N87.417°E		
Tangential Length:		1175		

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ENGINEER: V. N. MURTHY MADE, P.E.
P.E. Reg No: 134936
DATE: JULY 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA
PAVING AND DRAINAGE
IMPROVEMENTS

HORIZONTAL ALIGNMENT DATA
SHEET 3 OF 5

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
N.T.S.	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 12 OF 369	

FILE:P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\Transportation\Sheets\HAD\97_HAD.dgn
DATE:8/7/2026

Alignment Name: CL-Seashore Dr2
Alignment Description:
Alignment Style: Alignment\Baseline

		Station	Northing	Easting
Element: Linear				
POT	( )	1+00.000 R1	13817461.78	3050896.736
POT	( )	13+55.000 R1	13817519.77	3052150.396
Tangential Direction:		N87.352°E		
Tangential Length:		1255		

Alignment Name: CL-Sela Ln2
Alignment Description:
Alignment Style: Alignment\Baseline

		Station	Northing	Easting
Element: Linear				
POT	( )	1+00.000 R1	13817657.04	3049638.569
POT	( )	4+65.000 R1	13818021.67	3049622.121
Tangential Direction:		N2.583°W		
Tangential Length:		365		

Alignment Name: CL_Sela Ln3
Alignment Description:
Alignment Style: Alignment\Baseline

		Station	Northing	Easting
Element: Linear				
POT	( )	1+00.000	13817745.2	3051605.60
POT	( )	4+56.897	13818101.7	3051589.22
Tangential Direction:		N2.631°W		
Tangential Length:		356.897		

Alignment Name: CL-Sharpcrest Ln
Alignment Description:
Alignment Style: Alignment\Baseline

		Station	Northing	Easting
Element: Linear				
POT	( )	1+00.000 R1	13816894.3	3050747.84
POT	( )	15+30.000	13816960.3	3052176.31
Tangential Direction:		N87.352°E		
Tangential Length:		1430		

Alignment Name: CL-Sela Ln
Alignment Description:
Alignment Style: Alignment\Baseline

		Station	Northing	Easting
Element: Linear				
POT	( )	1+00.000 R1	13817971.6	3049579.33
PC	( )	11+81.518	13818020.4	3050659.75
Tangential Direction:		N87.417°E		
Tangential Length:		1081.518		
Element: Circular				
PC	( )	11+81.518	13818020.4	3050659.75
PI	( )	11+87.543	13818020.7	3050665.76
CC	( )		13817920.5	3050664.25
PT	( )	11+93.552	13818020.2	3050671.77
Radius:		100		
Delta:		6.895° Right		
Degree of Curvature (Arc):		187.978°		
Length:		12.034		
Tangent:		6.024		
Chord:		12.026		
Middle Ordinate:		0.181		
External:		0.181		
Back Tangent Direction:		N87.417°E		
Back Radial Direction:		S2.583°E		
Chord Direction:		S89.135°E		
Ahead Radial Direction:		S4.312°W		
Ahead Tangent Direction:		S85.688°E		
Element: Linear				
PT	( )	11+93.552	13818020.2	3050671.77
PC	( )	12+32.018	13818017.3	3050710.13
Tangential Direction:		S85.688°E		
Tangential Length:		38.465		
Element: Circular				
PC	( )	12+32.018	13818017.3	3050710.13
PI	( )	12+37.892	13818016.9	3050715.99
CC	( )		13818117.0	3050717.65
PT	( )	12+43.753	13818017.1	3050721.85
Radius:		100		
Delta:		6.724° Left		
Degree of Curvature (Arc):		187.978°		
Length:		11.736		
Tangent:		5.875		
Chord:		11.729		
Middle Ordinate:		0.172		
External:		0.172		
Back Tangent Direction:		S85.688°E		
Back Radial Direction:		S4.312°W		
Chord Direction:		S89.050°E		
Ahead Radial Direction:		S2.412°E		
Ahead Tangent Direction:		N87.588°E		
Element: Linear				
PT	( )	12+43.753	13818017.1	3050721.85
POT	( )	21+60.000	13818055.7	3051637.29
Tangential Direction:		N87.588°E		
Tangential Length:		916.247		

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ENGINEER: V. N. MURTHY MADE, P.E.
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IMPROVEMENTS

HORIZONTAL ALIGNMENT DATA
SHEET 4 OF 5

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
N.T.S.	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 13 OF 369	

FILE:P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\Transportation\Sheets\HAD\97_HAD.dgn
DATE:8/7/2026

Alignment Name: CL-Shiner Ln
Alignment Description:
Alignment Style: Alignment\Baseline

		Station	Northing	Easting
Element: Linear				
POT	( )	1+00.000	13816127.9	3051980.44
POT	( )	3+85.000	13816412.6	3051966.98
Tangential Direction:		N2.707°W		
Tangential Length:		285		

Alignment Name: CL-Whitecap Ln
Alignment Description:
Alignment Style: Alignment\Baseline

		Station	Northing	Easting
Element: Linear				
POT	( )	1+00.000 R1	13816137.38	3049480.398
POT	( )	12+70.000 R1	13816190.49	3050649.192
Tangential Direction:		N87.398°E		
Tangential Length:		1170		

Alignment Name: CL-Starfish Ln
Alignment Description:
Alignment Style: Alignment\Baseline

		Station	Northing	Easting
Element: Linear				
POT	( )	1+00.000	13815845.9	3051217.48
POT	( )	3+29.005	13816063.8	3051287.97
Tangential Direction:		N17.928°		
Tangential Length:		229.005		

Alignment Name: CL_Whitecap Ln1
Alignment Description:
Alignment Style: Alignment\Baseline

		Station	Northing	Easting
Element: Linear				
POT	( )	1+00.000	13816154.6	3050925.45
PC	( )	1+54.775	13816152.1	3050980.17
Tangential Direction:		S87.422°E		
Tangential Length:		54.775		
Element: Circular				
PC	( )	1+54.775	13816152.1	3050980.17
PI	( )	1+95.308	13816150.3	3051020.67
CC	( )		13815852.4	3050966.68
PT	( )	2+35.353	13816137.8	3051059.22
Radius:		300		
Delta:		15.389° Right		
Degree of Curvature (Arc):		62.659°		
Length:		80.579		
Tangent:		40.533		
Chord:		80.337		
Middle Ordinate:		2.701		
External:		2.726		
Back Tangent Direction:		S87.422°E		
Back Radial Direction:		S2.578°W		
Chord Direction:		S79.727°E		
Ahead Radial Direction:		S17.967°		
Ahead Tangent Direction:		S72.033°E		
Element: Linear				
PT	( )	2+35.353	13816137.8	3051059.22
PC	( )	8+72.296	13815941.8	3051665.24
Tangential Direction:		S72.072°E		
Tangential Length:		636.942		
Element: Circular				
PC	( )	8+72.296	13815941.8	3051665.24
PI	( )	9+17.404	13815927.9	3051708.16
CC	( )		13815879.9	3051645.23
PT	( )	9+51.163	13815882.8	3051710.16
Radius:		65		
Delta:		69.519° Right		
Degree of Curvature (Arc):		289.197°		
Length:		78.867		
Tangent:		45.108		
Chord:		74.118		
Middle Ordinate:		11.599		
External:		14.119		
Back Tangent Direction:		S72.072°E		
Back Radial Direction:		S17.928°		
Chord Direction:		S37.313°E		
Ahead Radial Direction:		S87.447°		
Ahead Tangent Direction:		S2.553°E		
Element: Linear				
PT	( )	9+51.163	13815882.8	3051710.16
POT	( )	12+75.000	13815559.3	3051724.59
Tangential Direction:		S2.553°E		
Tangential Length:		323.837		

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CITY OF HOUSTON
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ALIEF FOREST SOUTH AREA
PAVING AND DRAINAGE
IMPROVEMENTS

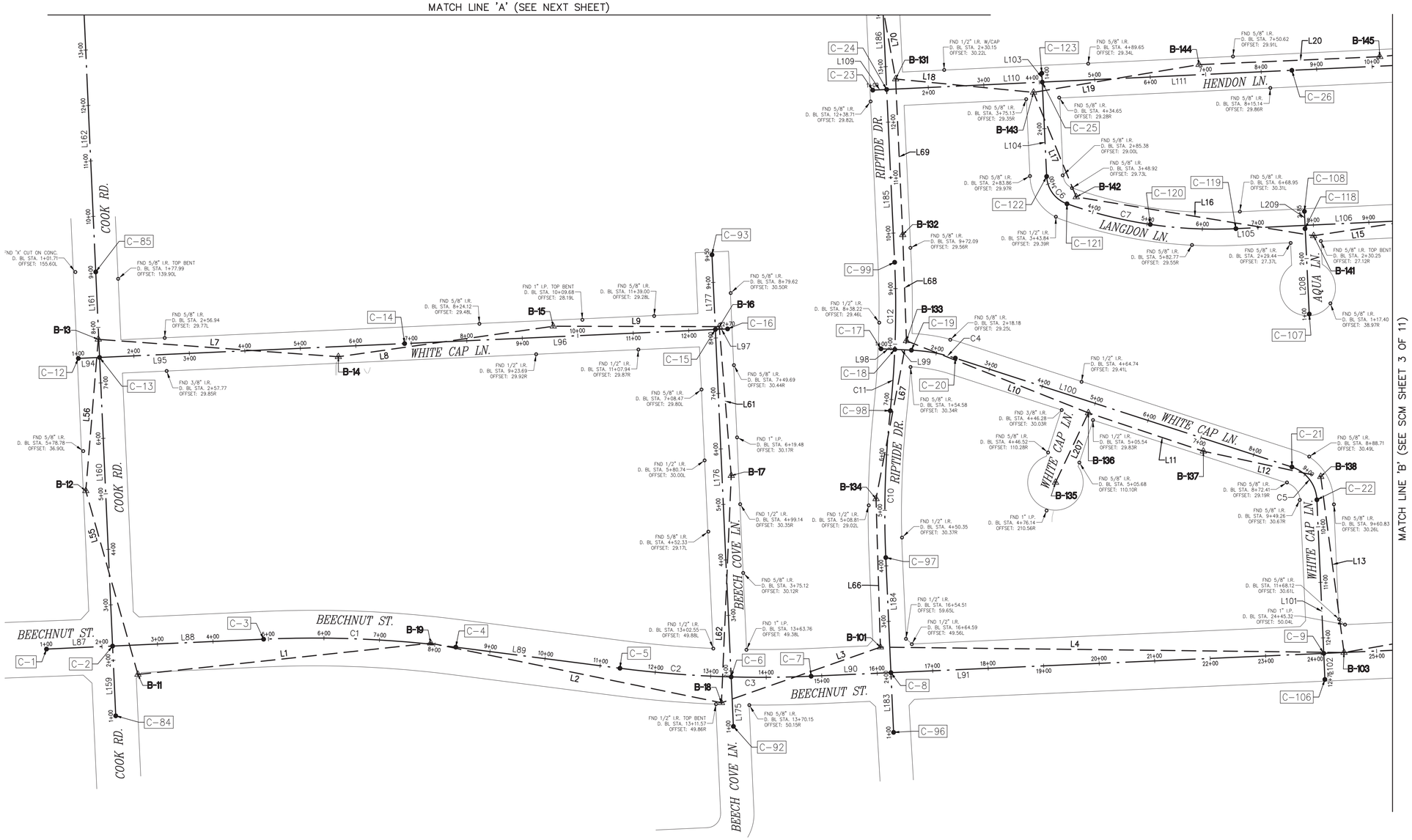
HORIZONTAL ALIGNMENT DATA
SHEET 5 OF 5

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
N.T.S.	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 14 OF 369	

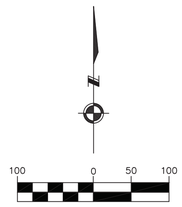
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DATE:8/7/2026

PLOT STYLE: COH_JAG_07_2016.ctb

MATCH LINE 'A' (SEE NEXT SHEET)



MATCH LINE 'B' (SEE SCM SHEET 3 OF 11)



BENCHMARK:

CITY OF HOUSTON MONUMENT 4854-8109, A BRASS DISK IN CONCRETE, LOCATED AT SOUTHWEST CORNER OF THE INTERSECTION OF SHARPCREST LN AND RIPTIDE RD.

ELEV. 72.01 FEET NAVD 1988 (GEOID '18)*

* OBSERVED BY GPS SURVEYING AND PROCESSED IN REFERENCE TO THE CORS DATED DECEMBER 11, 2019.

VERTICAL DATUM ADJUSTMENT:

THE ELEVATION DIFFERENCE IN BETWEEN THE FLOODPLAIN REFERENCE MARK'S (RM 040565) PUBLISHED DATUM NAVD 1988, 2001 ADJUSTMENT AND DATUM NAVD 1988 (GEOID '18) IS 0.30'.

NAVD 1988, 2001 ADJ. ELEVATION
= NAVD 1988 (GEOID '18) ELEVATION + 0.30 FEET.

NOTE:

ALL BEARINGS AND DISTANCES ARE BASED ON TEXAS STATE PLANE COORDINATE SYSTEM, SOUTH CENTRAL ZONE, NAD83. ALL DISTANCES ARE IN SURFACE.

THE COORDINATES SHOWN HEREON ARE TEXAS SOUTH CENTRAL ZONE NO. 4204 STATE PLANE GRID COORDINATES (NAD83) AND MAY BE BROUGHT TO SURFACE BY DIVIDING BY THE COMBINED SCALE FACTOR 0.999870017.

LEGEND:

B-X	SURVEY CONTROL POINT NUMBER
C-X	DESIGN BASELINE POINT NUMBER
⚠	SURVEY CONTROL POINT
•	DESIGN BASELINE POINT
✪	CITY OF HOUSTON MONUMENT
D. BL:	DESIGN BASELINE ——·——
S. BL:	SURVEY BASELINE — — —

NO.	DATE	REVISION	APP.

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TBPLS Firm Registration No. 1007560

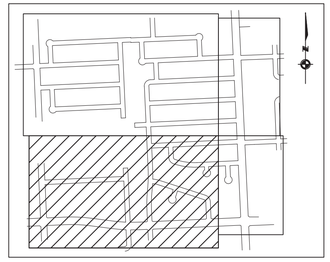
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KUTUBUL A. M. MAINUDDIN
6404
PROFESSIONAL
LAND SURVEYOR
10/22/25

CITY OF HOUSTON
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ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

SURVEY CONTROL MAP
(SHEET 1 OF 11)

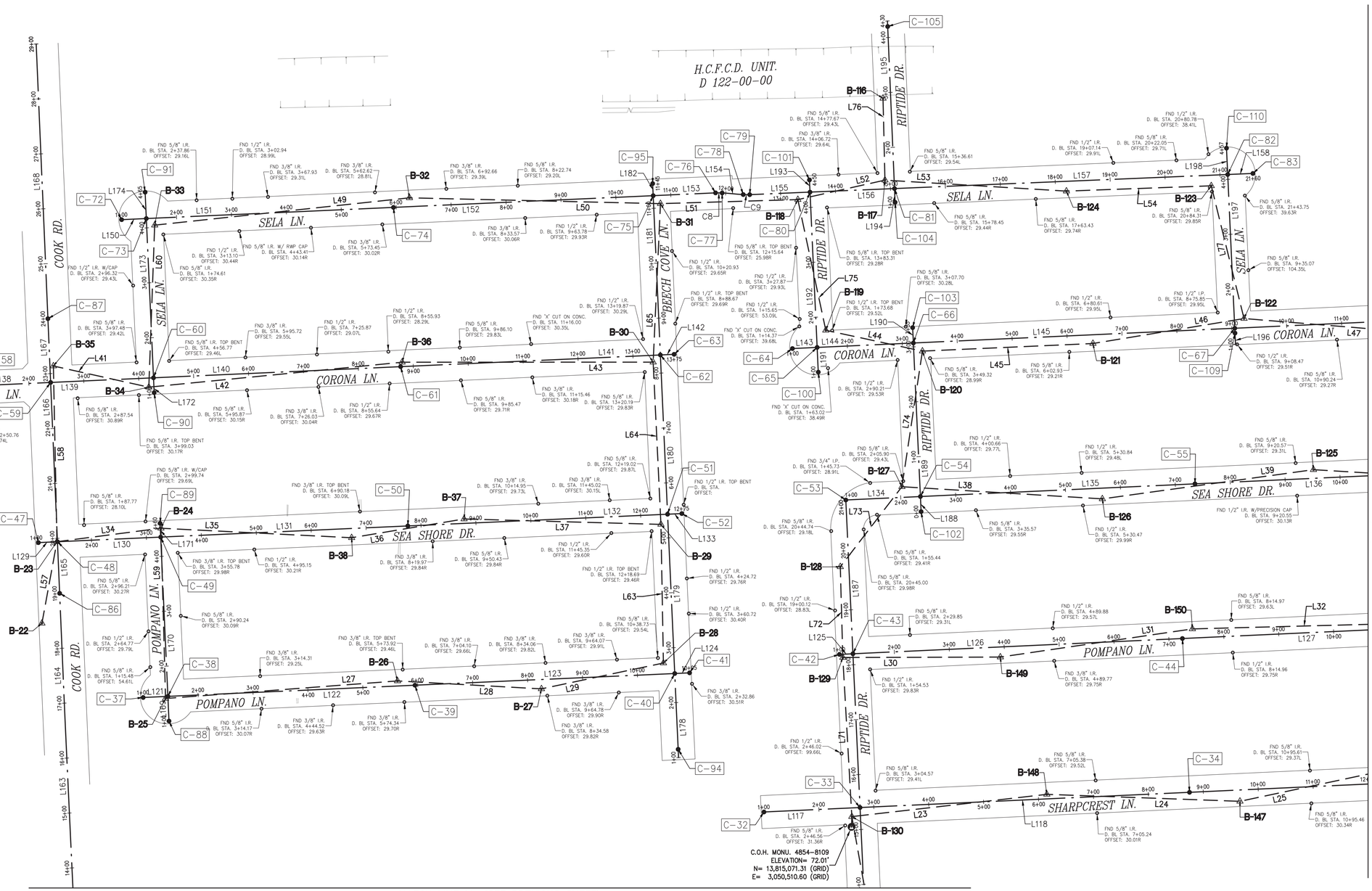


SHEET LAYOUT
N.T.S.

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1" = 100'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 15 OF 369	

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PLOT STYLE: COH_JAG_07_2016.ctb



BENCHMARK:

CITY OF HOUSTON MONUMENT 4854-8109, A BRASS DISK IN CONCRETE, LOCATED AT SOUTHWEST CORNER OF THE INTERSECTION OF SHARPCREST LN AND RIPTIDE RD.

ELEV. 72.01 FEET NAVD 1988 (GEOID '18)*

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LEGEND:

B-X	SURVEY CONTROL POINT NUMBER
C-X	DESIGN BASELINE POINT NUMBER
	SURVEY CONTROL POINT
	DESIGN BASELINE POINT
	CITY OF HOUSTON MONUMENT
D. BL:	DESIGN BASELINE
S. BL:	SURVEY BASELINE

NO.	DATE	REVISION	APP.

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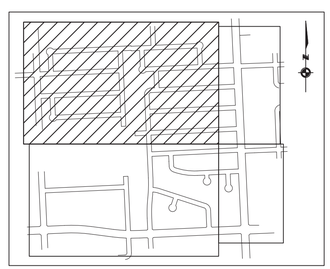
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08/22/25

CITY OF HOUSTON
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ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

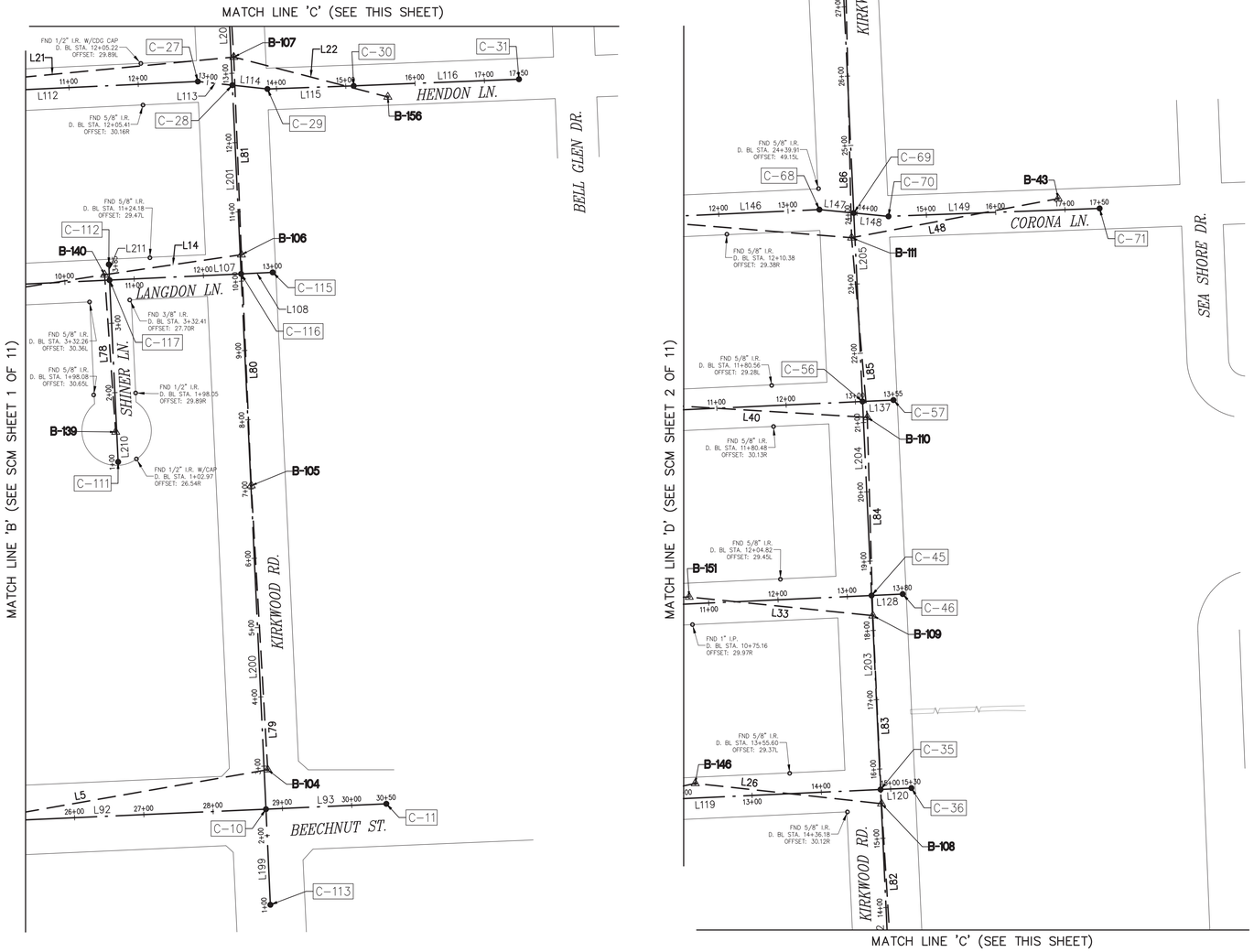
(SHEET 2 OF 11)

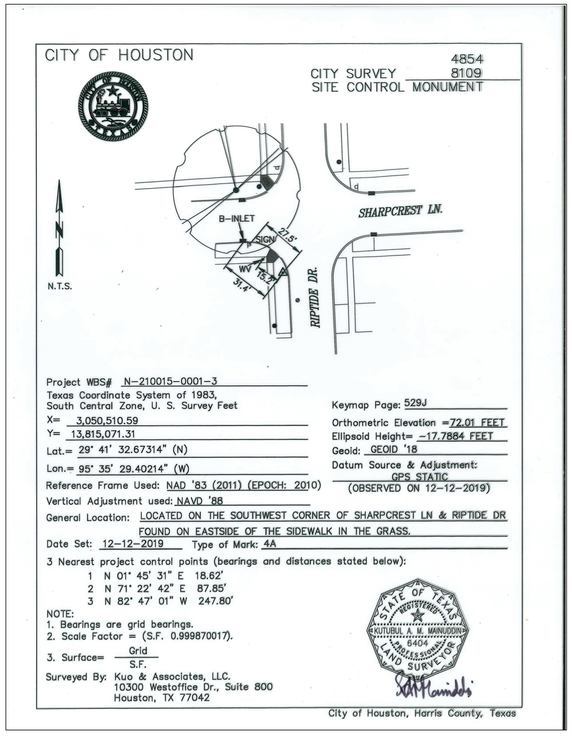


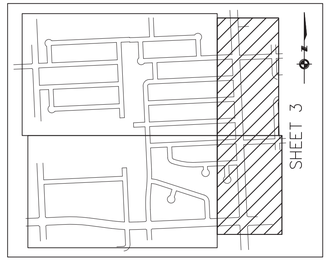
SHEET LAYOUT
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1" = 100'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 16 OF 369	

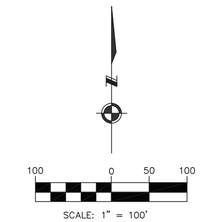
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SHEET LAYOUT
N.T.S.



BENCHMARK:

CITY OF HOUSTON MONUMENT 4854-8109, A BRASS DISK IN CONCRETE, LOCATED AT SOUTHWEST CORNER OF THE INTERSECTION OF SHARPCREST LN AND RIPTIDE RD.

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LEGEND:

B-X	SURVEY CONTROL POINT NUMBER
C-X	DESIGN BASELINE POINT NUMBER
	SURVEY CONTROL POINT
•	DESIGN BASELINE POINT
	CITY OF HOUSTON MONUMENT
D. BL:	DESIGN BASELINE
S. BL:	SURVEY BASELINE

NO.	DATE	REVISION	APP.

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12/22/25

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

SURVEY CONTROL MAP
(SHEET 3 OF 11)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 17 OF 369	

PLOT STYLE: COH_JAG_07_2016.ctb

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PLOT STYLE: COH_JAG_07_2016.ctb

DESIGN BASELINE POINTS DATA						
POINT No.	D. BL STA.	NORTHING (SURFACE)	EASTING (SURFACE)	NORTHING (GRID)	EASTING (GRID)	MATERIAL SET
C-1	1+00.00	13,815,614.02	3,049,422.99	13,813,818.23	3,049,026.62	SET 'X' CUT ON CONC.
C-2	2+19.10	13,815,619.43	3,049,541.97	13,813,823.63	3,049,145.59	SET MAGNAIL W/SHINER
C-3	4+91.32	13,815,631.79	3,049,813.91	13,813,835.99	3,049,417.49	SET 5/8" I.R. W/CAP
C-4	8+37.97	13,815,617.51	3,050,159.84	13,813,821.71	3,049,763.37	SET MAGNAIL W/SHINER
C-5	11+36.01	13,815,579.49	3,050,455.44	13,813,783.70	3,050,058.93	SET 5/8" I.R. W/CAP
C-6	13+36.91	13,815,563.90	3,050,655.64	13,813,768.11	3,050,259.11	SET 5/8" I.R. W/CAP
C-7	14+80.95	13,815,565.13	3,050,799.65	13,813,769.34	3,050,403.10	SET 'X' CUT ON CONC.
C-8	16+24.72	13,815,571.54	3,050,943.28	13,813,775.75	3,050,546.71	SET 'X' CUT ON CONC.
C-9	24+04.72	13,815,606.28	3,051,722.50	13,813,810.48	3,051,325.83	SET 'X' CUT ON CONC.
C-10	28+76.26	13,815,627.28	3,052,193.58	13,813,831.48	3,051,796.84	SET 'X' CUT ON CONC.
C-11	30+50.00	13,815,635.02	3,052,367.14	13,813,839.22	3,051,970.39	SET 'X' CUT ON CONC.
C-12	1+00.00	13,816,137.38	3,049,480.40	13,814,341.51	3,049,084.02	SET 1/2" I.R. W/CAP
C-13	1+38.22	13,816,139.11	3,049,518.58	13,814,343.25	3,049,122.19	SET 'X' CUT ON CONC.
C-14	6+88.00	13,816,164.07	3,050,067.79	13,814,368.20	3,049,671.34	SET 'X' CUT ON CONC.
C-15	12+48.00	13,816,189.49	3,050,627.22	13,814,393.62	3,050,230.69	SET 'X' CUT ON CONC.
C-16	12+70.00	13,816,190.49	3,050,649.19	13,814,394.62	3,050,252.66	SET 1/2" I.R. W/CAP
C-17	1+00.00	13,816,154.65	3,050,925.46	13,814,358.79	3,050,528.89	SET 'X' CUT ON CONC.
C-18	1+24.84	13,816,153.53	3,050,950.27	13,814,357.67	3,050,553.70	SET MAGNAIL W/SHINER
C-19	1+54.77	13,816,152.19	3,050,980.18	13,814,356.32	3,050,583.60	SET 'X' CUT ON CONC.
C-20	2+35.35	13,816,137.86	3,051,059.23	13,814,342.00	3,050,662.64	SET 'X' CUT ON CONC.
C-21	8+72.30	13,815,941.80	3,051,665.24	13,814,145.96	3,051,268.58	SET 'X' CUT ON CONC.
C-22	9+51.16	13,815,882.85	3,051,710.17	13,814,087.02	3,051,313.50	SET 'X' CUT ON CONC.
C-23	1+00.00	13,816,620.39	3,050,910.63	13,814,824.46	3,050,514.06	SET 'X' CUT ON CONC.
C-24	1+25.00	13,816,621.57	3,050,935.60	13,814,825.64	3,050,539.03	SET 'X' CUT ON CONC.
C-25	4+05.36	13,816,634.81	3,051,215.65	13,814,838.88	3,050,819.05	SET 'X' CUT ON CONC.
C-26	8+55.36	13,816,656.06	3,051,665.15	13,814,860.13	3,051,268.48	SET 'X' CUT ON CONC.
C-27	12+86.03	13,816,676.39	3,052,095.34	13,814,880.46	3,051,698.62	SET 'X' CUT ON CONC.
C-28	13+36.09	13,816,671.05	3,052,145.12	13,814,875.11	3,051,748.39	SET 'X' CUT ON CONC.
C-29	13+87.00	13,816,665.61	3,052,195.73	13,814,869.68	3,051,799.00	SET 'X' CUT ON CONC.
C-30	15+11.45	13,816,670.10	3,052,320.10	13,814,874.17	3,051,923.35	SET 'X' CUT ON CONC.
C-31	17+50.00	13,816,679.66	3,052,558.46	13,814,883.72	3,052,161.68	SET 'X' CUT ON CONC.
C-32	1+00.00	13,816,894.30	3,050,747.84	13,815,098.33	3,050,351.30	SET 1/2" I.R. W/CAP
C-33	2+74.96	13,816,902.38	3,050,922.61	13,815,106.42	3,050,526.04	SET MAGNAIL W/SHINER
C-34	8+74.96	13,816,930.11	3,051,521.97	13,815,134.14	3,051,125.33	SET 'X' CUT ON CONC.
C-35	14+85.41	13,816,958.31	3,052,131.78	13,815,162.34	3,051,735.05	SET 'X' CUT ON CONC.
C-36	15+30.00	13,816,960.37	3,052,176.32	13,815,164.40	3,051,779.59	SET 'X' CUT ON CONC.
C-37	1+00.00	13,817,102.57	3,049,618.53	13,815,306.58	3,049,222.14	SET 'X' CUT ON CONC.
C-38	1+45.00	13,817,104.60	3,049,663.49	13,815,308.61	3,049,267.08	SET 'X' CUT ON CONC.
C-39	5+95.00	13,817,124.88	3,050,113.03	13,815,328.89	3,049,716.57	SET 'X' CUT ON CONC.
C-40	10+68.00	13,817,146.19	3,050,585.55	13,815,350.20	3,050,189.03	SET 'X' CUT ON CONC.
C-41	10+95.00	13,817,147.41	3,050,612.52	13,815,351.42	3,050,216.00	SET 'X' CUT ON CONC.
C-42	1+00.00	13,817,180.95	3,050,885.11	13,815,384.95	3,050,488.55	SET 'X' CUT ON CONC.
C-43	1+24.59	13,817,182.08	3,050,909.67	13,815,386.08	3,050,513.11	SET 'X' CUT ON CONC.
C-44	7+24.59	13,817,209.81	3,051,509.03	13,815,413.80	3,051,112.39	SET 'X' CUT ON CONC.
C-45	13+35.00	13,817,238.01	3,052,118.79	13,815,442.01	3,051,722.07	SET MAGNAIL W/SHINER
C-46	13+80.00	13,817,240.09	3,052,163.74	13,815,444.08	3,051,767.01	SET 'X' CUT ON CONC.
C-47	1+00.00	13,817,384.12	3,049,424.62	13,815,588.10	3,049,028.25	SET 'X' CUT ON CONC.
C-48	1+38.00	13,817,385.83	3,049,462.58	13,815,589.81	3,049,066.21	SET 1/2" I.R. W/CAP
C-49	3+26.03	13,817,394.31	3,049,650.42	13,815,598.28	3,049,254.02	SET 'X' CUT ON CONC.
C-50	7+76.03	13,817,414.58	3,050,099.96	13,815,618.55	3,049,703.50	SET 'X' CUT ON CONC.
C-51	12+49.03	13,817,435.90	3,050,572.48	13,815,639.87	3,050,175.96	SET 'X' CUT ON CONC.
C-52	12+75.00	13,817,437.07	3,050,598.43	13,815,641.04	3,050,201.90	SET 'X' CUT ON CONC.
C-53	1+00.00	13,817,461.78	3,050,896.74	13,815,665.75	3,050,500.17	SET 1/2" I.R. W/CAP
C-54	2+35.85	13,817,468.06	3,051,032.44	13,815,672.02	3,050,635.86	SET 'X' CUT ON CONC.
C-55	7+35.85	13,817,491.16	3,051,531.90	13,815,695.12	3,051,135.26	SET 'X' CUT ON CONC.
C-56	13+10.36	13,817,517.71	3,052,105.81	13,815,721.67	3,051,709.08	SET 'X' CUT ON CONC.
C-57	13+55.00	13,817,519.77	3,052,150.40	13,815,723.73	3,051,753.67	SET 'X' CUT ON CONC.
C-58	1+00.00	13,817,669.28	3,049,310.68	13,815,873.21	3,048,914.33	SET MAGNAIL W/SHINER
C-59	2+39.67	13,817,675.57	3,049,450.21	13,815,879.51	3,049,053.84	SET 'X' CUT ON CONC.
C-60	4+27.00	13,817,684.01	3,049,637.35	13,815,887.95	3,049,240.95	SET 'X' CUT ON CONC.
C-61	8+77.00	13,817,704.29	3,050,086.90	13,815,908.22	3,049,690.44	SET MAGNAIL W/SHINER
C-62	13+50.00	13,817,725.60	3,050,559.42	13,815,929.53	3,050,162.89	SET 'X' CUT ON CONC.

DESIGN BASELINE POINTS DATA						
POINT No.	D. BL STA.	NORTHING (SURFACE)	EASTING (SURFACE)	NORTHING (GRID)	EASTING (GRID)	MATERIAL SET
C-63	13+75.00	13,817,726.73	3,050,584.39	13,815,930.66	3,050,187.87	SET 'X' CUT ON CONC.
C-64	1+00.00	13,817,737.23	3,050,799.64	13,815,941.16	3,050,403.08	SET 1/2" I.R. W/CAP
C-65	1+45.00	13,817,739.29	3,050,844.59	13,815,943.22	3,050,448.03	SET MAGNAIL W/SHINER
C-66	3+20.21	13,817,747.33	3,051,019.61	13,815,951.26	3,050,623.03	SET 'X' CUT ON CONC.
C-67	9+05.49	13,817,774.19	3,051,604.28	13,815,978.11	3,051,207.62	SET MAGNAIL W/SHINER
C-68	13+45.30	13,817,794.36	3,052,043.62	13,815,998.29	3,051,646.91	SET 'X' CUT ON CONC.
C-69	13+95.10	13,817,789.51	3,052,093.19	13,815,993.43	3,051,696.47	SET 'X' CUT ON CONC.
C-70	14+45.36	13,817,784.61	3,052,143.21	13,815,988.53	3,051,746.48	SET 'X' CUT ON CONC.
C-71	17+50.00	13,817,796.08	3,052,447.63	13,816,000.00	3,052,050.86	SET 'X' CUT ON CONC.
C-72	1+00.00	13,817,971.69	3,049,579.33	13,816,175.59	3,049,182.94	SET 1/2" I.R. W/CAP
C-73	1+45.00	13,817,973.72	3,049,624.28	13,816,177.61	3,049,227.89	SET 'X' CUT ON CONC.
C-74	5+95.00	13,817,993.99	3,050,073.83	13,816,197.89	3,049,677.37	SET 'X' CUT ON CONC.
C-75	10+68.00	13,818,015.31	3,050,546.35	13,816,219.20	3,050,149.83	SET 'X' CUT ON CONC.
C-76	11+81.52	13,818,020.43	3,050,659.75	13,816,224.32	3,050,263.22	SET 'X' CUT ON CONC.
C-77	11+93.55	13,818,020.24	3,050,671.77	13,816,224.14	3,050,275.24	SET 'X' CUT ON CONC.
C-78	12+32.02	13,818,017.35	3,050,710.13	13,816,221.24	3,050,313.59	SET 'X' CUT ON CONC.
C-79	12+43.75	13,818,017.16	3,050,721.86	13,816,221.05	3,050,325.32	SET 'X' CUT ON CONC.
C-80	13+53.61	13,818,021.78	3,050,831.61	13,816,225.67	3,050,435.06	SET 'X' CUT ON CONC.
C-81	15+07.45	13,818,028.26	3,050,985.32	13,816,232.15	3,050,588.75	SET 'X' CUT ON CONC.
C-82	21+14.10	13,818,053.79	3,051,591.43	13,816,257.68	3,051,194.77	SET 'X' CUT ON CONC.
C-83	21+60.00	13,818,055.72	3,051,637.29	13,816,259.61	3,051,240.63	SET 1/2" I.R. W/CAP
C-84	1+00.00	13,815,493.87	3,049,547.68	13,813,698.09	3,049,151.29	SET 'X' CUT ON CONC.
C-85	9+00.00	13,816,293.05	3,049,511.63	13,814,497.17	3,049,115.25	SET 1/2" I.R. W/CAP
C-86	19+00.00	13,817,292.04	3,049,466.59	13,815,496.02	3,049,070.21	SET 1/2" I.R. W/CAP
C-87	24+00.00	13,817,791.58	3,049,445.26	13,815,995.50	3,049,048.89	SET 'X' CUT ON CONC.
C-88	1+00.00	13,817,059.65	3,049,665.52	13,815,263.66	3,049,269.11	SET 1/2" I.R. W/CAP
C-89	4+60.00	13,817,419.28	3,049,649.29	13,815,623.25	3,049,252.89	SET 1/2" I.R. W/CAP
C-90	1+00.00	13,817,657.04	3,049,638.57	13,815,860.98	3,049,242.17	SET 1/2" I.R. W/CAP
C-91	4+65.00	13,818,021.67	3,049,622.12	13,816,225.56	3,049,225.72	SET 1/2" I.R. W/CAP
C-92	1+00.00	13,815,474.85	3,050,659.69	13,813,679.07	3,050,263.16	SET MAGNAIL W/SHINER
C-93	9+50.00	13,816,323.97	3,050,621.10	13,814,528.08	3,050,224.58	SET 1/2" I.R. W/CAP
C-94	1+15.00	13,817,008.33	3,050,591.77	13,815,212.36	3,050,195.25	SET 'X' CUT ON CONC.
C-95	11+45.00	13,818,037.29	3,050,545.36	13,816,241.18	3,050,148.84	SET 'X' CUT ON CONC.
C-96	1+00.00	13,815,464.07	3,050,948.07	13,813,668.29	3,050,551.50	SET 'X' CUT ON CONC.
C-97	4+15.05	13,815,778.81	3,050,934.04	13,813,982.99	3,050,537.47	SET 'X' CUT ON CONC.
C-98	6+79.75	13,816,043.14	3,050,942.08	13,814,247.29	3,050,545.51	SET 'X' CUT ON CONC.
C-99	9+47.40	13,816,310.41	3,050,950.00	13,814,514.53	3,050,553.42	SET 'X' CUT ON CONC.
C-100	1+00.00	13,817,694.34	3,050,846.65	13,815,898.28	3,050,450.09	SET 1/2" I.R. W/CAP
C-101	4+50.00	13,818,043.97	3,050,830.59	13,816,247.86	3,050,434.04	SET 'X' CUT ON CONC.
C-102	0+00.00	13,817,440.66	3,051,033.70	13,815,644.62	3,050,637.12	SET 1/2" I.R. W/CAP
C-103	3+35.00	13,817,775.30	3,051,018.33	13,815,979.23	3,050,621.75	SET 1/2" I.R. W/CAP
C-104	1+00.00	13,818,003.28	3,050,986.37	13,816,207.17	3,050,589.80	SET 1/2" I.R. W/CAP
C-105	4+19.85	13,818,322.85	3,050,972.91	13,816,526.70	3,050,576.34	SET 1/2" I.R. W/CAP
C-106	12+75.00	13,815,559.33	3,051,724.59	13,813,763.55	3,051,327.92	SET 'X' CUT ON CONC.
C-107	1+00.00	13,816,217.25	3,051,696.41	13,814,421.37	3,051,299.74	SET 'X' CUT ON CONC.
C-108	2+85.00	13,816,402.04	3,051,687.67	13,814,606.14	3,051,291.01	SET 'X' CUT ON CONC.
C-109	1+10.16	13,817,755.37	3,051,605.14	13,815,959.29	3,051,208.49	SET 1/2" I.R. W/CAP
C-110	4+56.90	13,818,101.74	3,051,589.23	13,816,305.62	3,051,192.57	SET 'X' CUT ON CONC.
C-111	1+00.00	13,816,127.98	3,051,980.44	13,814,332.11	3,051,583.74	SET 1/2" I.R. W/CAP
C-112	3+85.00	13,816,412.66	3,051,966.98	13,814,616.76	3,051,570.28	SET 1/2" I.R. W/CAP
C-113	1+00.00	13,815,489.45	3,052,199.98	13,813,693.67	3,051,803.24	SET 'X' CUT ON CONC.
C-114	28+25.00	13,818,211.52	3,052,073.59	13,816,415.38	3,051,676.87	SET 1/2" I.R. W/CAP
C-115	13+00.00	13,816,401.18	3,052,203.27	13,814,605.28	3,051,806.53	SET 'X' CUT ON CONC.
C-116	12+54.43	13,816,399.03	3,052,157.75	13,814,603.13	3,051,761.02	SET 'X' CUT ON CONC.
C-117	10+64.52	13,816,390.06	3,051,968.05	13,814,594.17	3,051,571.35	SET 'X' CUT ON CONC.
C-118	7+84.75	13,816,370.98	3,051,688.86	13,814,575.09	3,051,292.20	SET 'X' CUT ON CONC.
C-119	6+60.46	13,816,370.98	3,051,564.43	13,814,575.09	3,051,167.78	SET 'X' CUT ON CONC.
C-120	5+05.79	13,816,378.61	3,051,410.20	13,814,582.72	3,051,013.57	SET 'X' CUT ON CONC.
C-121	3+51.13	13,816,415.73	3,051,260.31	13,814,619.83	3,050,863.69	SET 'X' CUT ON CONC.
C-122	2+86.00	13,816,465.00	3,051,223.68	13,814,669.09	3,050,827.07	SET 'X' CUT ON CONC.
C-123	1+00.00	13,816,650.79	3,051,214.90	13,814,854.86	3,050,818.29	SET 'X' CUT ON CONC.

NO.	DATE	REVISION	APP.

ISANI
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PROFESSIONAL
LAND SURVEYOR
10/22/25

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

SURVEY CONTROL MAP (SHEET 4 OF 11)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
N/A	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 18 OF 369	

S:\Proj-2024\24058 (P23051-P19126 ALIEF FOREST S)\Dwgs\SCM\SCM-24058.dwgSht4 Aug 22, 2025 - 9:40AM dlee

DESIGN BASELINE: LINE TABLE		
LINE #	LENGTH	BEARING
L93	173.74	N87° 26' 49.99"E
L92	471.54	N87° 26' 49.99"E
L91	780.00	N87° 26' 49.99"E
L90	143.77	N87° 26' 49.99"E
L89	298.04	S82° 40' 15.55"E
L88	272.22	N87° 23' 53.45"E
L87	119.10	N87° 23' 53.45"E
L142	25.00	N87° 25' 01.95"E
L141	473.00	N87° 25' 01.95"E
L140	450.00	N87° 25' 01.95"E
L139	187.33	N87° 25' 01.95"E
L138	139.67	N87° 25' 01.95"E
L174	48.00	N2° 34' 58.05"W
L173	290.00	N2° 34' 58.05"W
L172	27.00	N2° 34' 58.05"W
L158	45.90	N87° 35' 16.24"E
L157	606.65	N87° 35' 16.24"E
L156	153.84	N87° 35' 16.24"E
L155	109.85	N87° 35' 16.24"E
L154	38.47	S85° 41' 16.78"E

DESIGN BASELINE: LINE TABLE		
LINE #	LENGTH	BEARING
L153	113.52	N87° 25' 01.95"E
L152	473.00	N87° 25' 01.95"E
L151	450.00	N87° 25' 01.95"E
L150	45.00	N87° 25' 01.95"E
L97	22.00	N87° 23' 53.45"E
L96	560.00	N87° 23' 53.45"E
L95	549.78	N87° 23' 53.45"E
L94	38.22	N87° 23' 53.45"E
L133	25.97	N87° 25' 01.95"E
L132	473.00	N87° 25' 01.95"E
L131	450.00	N87° 25' 01.95"E
L130	188.03	N87° 25' 01.95"E
L129	38.00	N87° 25' 01.95"E
L171	25.00	N2° 34' 58.05"W
L170	290.00	N2° 34' 58.05"W
L169	45.00	N2° 34' 58.05"W
L124	27.00	N87° 25' 01.95"E
L123	473.00	N87° 25' 01.95"E
L122	450.00	N87° 25' 01.95"E
L121	45.00	N87° 25' 01.95"E

DESIGN BASELINE: LINE TABLE		
LINE #	LENGTH	BEARING
L182	22.00	N2° 34' 58.05"W
L181	290.00	N2° 34' 58.05"W
L180	290.00	N2° 34' 58.05"W
L179	290.00	N2° 34' 58.05"W
L178	153.00	N2° 34' 58.05"W
L193	22.22	N2° 37' 46.76"W
L192	282.78	N2° 37' 46.76"W
L191	45.00	N2° 37' 46.76"W
L149	304.64	N87° 50' 27.38"E
L148	50.26	S84° 24' 13.46"E
L147	49.80	S84° 24' 13.46"E
L146	439.81	N87° 22' 13.24"E
L145	585.28	N87° 22' 13.24"E
L144	175.21	N87° 22' 13.24"E
L143	45.00	N87° 22' 13.24"E
L195	305.00	N2° 24' 43.76"W
L194	25.00	N2° 24' 43.76"W
L198	48.00	N2° 37' 51.49"W
L197	279.90	N2° 37' 51.49"W
L196	29.00	N2° 37' 51.49"W

DESIGN BASELINE: LINE TABLE		
LINE #	LENGTH	BEARING
L187	280.00	N2° 38' 54.40"W
L186	561.11	N2° 38' 54.40"W
L185	311.49	N2° 38' 54.40"W
L184	207.48	N2° 33' 10.01"W
L183	107.57	N2° 33' 10.01"W
L177	134.62	N2° 36' 06.55"W
L176	626.23	N2° 36' 06.55"W
L175	89.15	N2° 36' 06.55"W
L190	28.00	N2° 37' 46.76"W
L189	279.57	N2° 37' 46.76"W
L188	27.43	N2° 37' 46.76"W
L137	44.64	N87° 21' 05.60"E
L136	574.51	N87° 21' 05.60"E
L135	500.00	N87° 21' 05.60"E
L134	135.85	N87° 21' 05.60"E
L128	45.00	N87° 21' 05.60"E
L127	610.41	N87° 21' 05.60"E
L126	600.00	N87° 21' 05.60"E
L125	24.59	N87° 21' 05.60"E
L120	44.59	N87° 21' 05.60"E

DESIGN BASELINE: LINE TABLE		
LINE #	LENGTH	BEARING
L119	610.46	N87° 21' 05.60"E
L118	600.00	N87° 21' 05.60"E
L117	174.96	N87° 21' 05.60"E
L108	45.57	N87° 17' 36.45"E
L107	189.90	N87° 17' 36.45"E
L106	279.50	N87° 17' 36.45"E
L105	124.57	N87° 17' 36.45"E
L104	170.00	S2° 42' 23.55"E
L103	16.00	S2° 42' 23.55"E
L209	25.20	N2° 42' 23.55"W
L208	159.80	N2° 42' 23.55"W
L211	22.62	N2° 42' 23.55"W
L210	262.38	N2° 42' 23.55"W
L102	46.99	S2° 33' 10.01"E
L101	276.85	S2° 33' 10.01"E
L100	636.94	S72° 04' 20.01"E
L99	29.93	S87° 25' 18.97"E
L98	24.84	S87° 25' 18.97"E
L206	497.46	N2° 39' 29.92"W
L205	272.09	N2° 39' 29.92"W

DESIGN BASELINE: LINE TABLE		
LINE #	LENGTH	BEARING
L204	280.00	N2° 39' 29.92"W
L203	280.00	N2° 39' 29.92"W
L202	287.58	N2° 39' 29.92"W
L201	272.31	N2° 39' 29.92"W
L200	772.58	N2° 39' 29.92"W
L199	137.98	N2° 39' 29.92"W
L116	238.55	N87° 42' 16.08"E
L115	124.45	N87° 55' 50.08"E
L114	50.91	S83° 52' 08.11"E
L113	50.06	S83° 52' 08.11"E
L112	430.67	N87° 17' 36.45"E
L111	450.00	N87° 17' 36.45"E
L110	280.36	N87° 17' 36.45"E
L109	25.00	N87° 17' 36.45"E
L168	500.00	N2° 26' 40.96"W
L167	116.12	N2° 26' 40.96"W
L166	290.00	N2° 26' 40.96"W
L165	93.88	N2° 26' 40.96"W
L164	226.14	N2° 26' 40.96"W
L163	329.98	N2° 40' 29.38"W

DESIGN BASELINE: LINE TABLE		
LINE #	LENGTH	BEARING
L162	443.88	N2° 34' 56.82"W
L161	154.10	N2° 34' 56.82"W
L160	520.21	N2° 34' 39.98"W
L159	125.69	N2° 36' 06.55"W

SURVEY BASELINE POINTS DATA (TEMPORARY BENCHMARK)								
POINT No.	NORTHING (SURFACE)	EASTING (SURFACE)	NORTHING (GRID)	EASTING (GRID)	ELEVATION	D. BL STA.	OFFSET	DESCRIPTION
B-11	13,815,568.28	3,049,587.58	13,813,772.49	3,049,191.18	74.04'	2+62.34	53.17R	SET 'X' CUT ON CONC.
B-12	13,815,899.09	3,049,493.75	13,814,103.26	3,049,097.36	76.06'	5+07.24	35.60L	SET 'X' CUT ON CONC.
B-13	13,816,171.70	3,049,516.21	13,814,375.83	3,049,119.83	75.58'	1+37.33	32.66L	SET 'X' CUT ON CONC.
B-14	13,816,140.34	3,049,948.43	13,814,344.48	3,049,551.99	73.73'	5+67.69	18.29R	SET 1/2" I.R. W/CAP
B-15	13,816,195.21	3,050,335.25	13,814,399.34	3,049,938.76	73.97'	9+56.60	18.97L	SET 1/2" I.R. W/CAP
B-16	13,816,194.59	3,050,634.25	13,814,398.72	3,050,237.72	73.14'	12+55.26	4.78L	SET 'X' CUT ON CONC.
B-17	13,815,926.30	3,050,655.80	13,814,130.47	3,050,259.27	74.02'	5+51.16	16.61R	SET 1/2" I.R. W/CAP
B-18	13,815,517.31	3,050,638.17	13,813,721.53	3,050,241.64	74.17'	13+21.09	47.11R	SET 'X' CUT ON CONC.
B-19	13,815,624.65	3,050,114.67	13,813,828.85	3,049,718.20	74.79'	7+92.30	1.84L	SET 1/2" I.R. W/CAP
B-22	13,817,237.61	3,049,434.35	13,815,441.60	3,049,037.98	74.08'	18+46.99	34.53L	SET 'X' CUT ON CONC.
B-23	13,817,385.90	3,049,461.67	13,815,589.87	3,049,065.29	74.92'	1+37.09	0.11L	SET 5/8" I.R. W/CAP
B-24	13,817,410.42	3,049,650.89	13,815,614.40	3,049,254.49	74.30'	3+27.22	16.08L	SET 1/2" I.R. W/CAP
B-25	13,817,100.75	3,049,659.25	13,815,304.76	3,049,262.84	72.64'	1+40.59	3.65R	SET 'X' CUT ON CONC.
B-26	13,817,132.67	3,050,081.20	13,815,336.68	3,049,684.75	73.38'	5+63.56	9.22L	SET 'X' CUT ON CONC.
B-27	13,817,118.25	3,050,343.03	13,815,322.26	3,049,946.54	73.25'	8+24.47	16.99R	SET 1/2" I.R. W/CAP
B-28	13,817,165.28	3,050,564.92	13,815,369.28	3,050,168.40	73.58'	10+48.25	20.00L	SET 1/2" I.R. W/CAP
B-29	13,817,417.42	3,050,560.40	13,815,621.39	3,050,163.88	72.69'	12+36.13	17.92R	SET 'X' CUT ON CONC.
B-30	13,817,712.49	3,050,546.27	13,815,916.42	3,050,149.75	73.42'	13+36.28	12.51R	SET 'X' CUT ON CONC.
B-31	13,818,000.80	3,050,559.58	13,816,204.69	3,050,163.06	71.44'	10+80.57	15.10R	SET 'X' CUT ON CONC.
B-32	13,818,011.37	3,050,102.94	13,816,215.26	3,049,706.48	73.03'	6+24.87	16.04L	SET 1/2" I.R. W/CAP
B-33	13,817,961.68	3,049,639.49	13,816,165.58	3,049,243.08	74.13'	1+59.64	12.71R	SET 'X' CUT ON CONC.
B-34	13,817,667.00	3,049,628.82	13,815,870.94	3,049,232.42	73.77'	4+17.71	16.61R	SET 1/2" I.R. W/CAP
B-35	13,817,705.49	3,049,455.24	13,815,909.42	3,049,058.86	75.20'	2+46.04	29.66L	SET 'X' CUT ON CONC.
B-36	13,817,712.38	3,050,089.60	13,815,916.31	3,049,693.14	72.56'	8+80.07	7.96L	SET 'X' CUT ON CONC.
B-37	13,817,427.25	3,050,202.33	13,815,631.22	3,049,805.86	73.81'	8+78.86	8.04L	SET 'X' CUT ON CONC.
B-38	13,817,393.13	3,049,997.72	13,815,597.10	3,049,601.28	73.64'	6+72.93	16.83R	SET 1/2" I.R. W/CAP
B-43	13,817,810.20	3,052,387.86	13,816,014.11	3,051,991.11	71.18'	16+90.81	16.35L	SET 5/8" I.R. W/CAP
B-101	13,815,617.48	3,050,924.35	13,813,821.68	3,050,527.78	73.42'	16+07.85	46.74L	SET 'X' CUT ON CONC.
B-103	13,815,607.83	3,051,759.01	13,813,812.04	3,051,362.34	73.72'	24+41.26	0.07R	SET 'X' CUT ON CONC.
B-104	13,815,684.13	3,052,196.08	13,813,888.33	3,051,799.35	75.26'	2+94.66	5.14R	SET 'X' CUT ON CONC.
B-105	13,816,093.77	3,052,172.35	13,814,297.92	3,051,775.62	73.97'	7+04.96	0.43R	SET 'X' CUT ON CONC.
B-106	13,816,426.69	3,052,158.18	13,814,630.79	3,051,761.45	73.38'	12+56.17	27.61L	SET 'X' CUT ON CONC.
B-107	13,816,711.60	3,052,147.14	13,814,915.67	3,051,750.41	73.71'	13+33.78	40.54L	SET 'X' CUT ON CONC.
B-108	13,816,937.84	3,052,133.16	13,815,141.87	3,051,736.44	72.82'	14+85.85	20.52R	FND 'X' CUT ON CONC.
B-109	13,817,208.95	3,052,120.64	13,815,412.95	3,051,723.91	73.24'	13+35.50	29.12R	FND 'X' CUT ON CONC.
B-110	13,817,494.79	3,052,112.66	13,815,698.75	3,051,715.94	72.39'	13+16.15	23.21R	FND 'X' CUT ON CONC.
B-111	13,817,753.78	3,052,090.03	13,815,957.71	3,051,693.31	72.66'	13+95.44	35.86R	FND 'X' CUT ON CONC.
B-114	13,818,211.61	3,052,079.50	13,816,415.48	3,051,682.78	73.40'	28+24.82	5.90R	SET 1/2" I.R. W/CAP
B-116	13,818,192.36	3,050,964.42	13,816,396.23	3,050,567.84	72.49'	2+89.84	13.98L	SET 'X' CUT ON CONC.
B-117	13,818,043.59	3,050,967.91	13,816,247.48	3,050,571.34	71.30'	14+90.70	16.06L	SET 'X' CUT ON CONC.
B-118	13,818,008.18	3,050,809.46	13,816,212.07	3,050,412.91	70.92'	13+30.90	12.66R	SET 'X' CUT ON CONC.
B-119	13,817,770.49	3,050,860.30	13,815,974.41	3,050,463.74	71.63'	1+62.13	30.44L	SET 'X' CUT ON CONC.
B-120	13,817,732.55	3,051,036.13	13,815,936.48	3,050,639.54	71.21'	3+36.03	15.53R	SET 'X' CUT ON CONC.
B-121	13,817,746.37	3,051,346.26	13,815,950.30	3,050,949.64	72.24'	6+46.47	15.94R	SET 'X' CUT ON CONC.
B-122	13,817,791.81	3,051,621.09	13,815,995.73	3,051,224.43	70.84'	9+23.09	16.84L	SET 'X' CUT ON CONC.
B-123	13,818,033.24	3,051,561.51	13,816,237.13	3,051,164.85	72.54'	20+83.33	19.27R	SET 1/2" I.R. W/CAP
B-124	13,818,023.60	3,051,298.06	13,816,227.49	3,050,901.44	72.55'	18+19.71	17.82R	SET 'X' CUT ON CONC.
B-125	13,817,516.91	3,051,747.45	13,815,720.87	3,051,350.78	72.18'	9+52.36	15.76L	SET 1/2" I.R. W/CAP
B-126	13,817,463.83	3,051,363.37	13,815,667.80	3,050,966.74	72.70'	5+66.23	19.52R	SET 1/2" I.R. W/CAP
B-127	13,817,485.91	3,050,998.81	13,815,689.87	3,050,602.23	71.22'	2+03.07	19.39L	SET 1/2" I.R. W/CAP

SURVEY BASELINE POINTS DATA (TEMPORARY BENCHMARK)								
POINT No.	NORTHING (SURFACE)	EASTING (SURFACE)	NORTHING (GRID)	EASTING (GRID)	ELEVATION	D. BL STA.	OFFSET	DESCRIPTION
B-128	13,817,340.30	3,050,886.72	13,815,544.28	3,050,490.16	72.46'	19+79.11	15.62L	SET 1/2" I.R. W/CAP
B-129	13,817,175.28	3,050,891.26	13,815,379.28	3,050,494.69	72.47'	1+05.88	5.94R	SET 1/2" I.R. W/CAP
B-130	13,816,885.88	3,050,907.69	13,815,089.92	3,050,511.12	71.65'	2+59.28	15.79R	FND 'X' CUT ON CONC.
B-131	13,816,640.40	3,050,951.75	13,814,844.47	3,050,555.18	72.12'	1+42.02	18.05L	SET 'X' CUT ON CONC.
B-132	13,816,359.98	3,050,964.50	13,814,564.08	3,050,567.93	73.12'	9+96.24	16.78R	SET 1/2" I.R. W/CAP
B-133	13,816,168.99	3,050,971.23	13,814,373.12	3,050,574.65	72.41'	1+45.08	16.38L	SET 'X' CUT ON CONC.
B-134	13,815,884.59	3,050,916.46	13,814,088.76	3,050,519.89	74.40'	5+20.61	16.04L	SET 1/2" I.R. W/CAP
B-135	13,815,913.99	3,051,239.65	13,814,118.16	3,050,843.04	73.34'	4+75.93	157.46R	SET 'X' CUT ON CONC.
B-136	13,816,039.32	3,051,298.78	13,814,243.46	3,050,902.16	72.11'	4+93.61	20.02R	SET 'X' CUT ON CONC.
B-137	13,815,970.25	3,051,505.78	13,814,174.41	3,051,109.14	73.04'	7+11.82	22.01R	SET 'X' CUT ON CONC.
B-138	13,815,924.48	3,051,717.10	13,814,128.65	3,051,320.43	73.86'	9+18.00	19.54L	SET 1/2" I.R. W/CAP
B-139	13,816,171.09	3,051,976.91	13,814,375.23	3,051,580.20	72.86'	1+43.24	1.49L	SET 'X' CUT ON CONC.
B-140	13,816,397.75	3,051,960.86	13,814,601.86	3,051,564.16	72.01'	10+57.70	8.02L	SET 'X' CUT ON CONC.
B-141	13,816,358.19	3,051,704.25	13,814,562.30	3,051,307.58	71.79'	2+40.42	14.49R	SET 'X' CUT ON CONC.
B-142	13,816,428.08	3,051,276.90	13,814,632.18	3,050,880.29	72.62'	3+62.92	17.09L	SET 1/2" I.R. W/CAP
B-143	13,816,616.33	3,051,199.99	13,814,820.40	3,050,803.38	71.68'	3+88.84	17.72R	SET 'X' CUT ON CONC.
B-144	13,816,666.34	3,051,497.94	13,814,870.41	3,051,101.29	72.64'	6+88.82	18.17L	SET 1/2" I.R. W/CAP
B-145	13,816,680.63	3,051,823.41	13,814,884.70	3,051,426.72	72.56'	10+14.61	17.08L	SET 1/2" I.R. W/CAP
B-146	13,816,967.05	3,051,864.59	13,815,171.08	3,051,467.90	72.33'	12+18.91	21.07L	SET 1/2" I.R. W/CAP
B-147	13,816,913.72	3,051,613.72	13,815,117.76	3,051,217.06	73.07'	9+65.85	20.61R	SET 1/2" I.R. W/CAP
B-148	13,816,926.41	3,051,262.40	13,815,130.44	3,050,865.79	72.31'	6+15.49	8.30L	SET 'X' CUT ON CONC.
B-149	13,817,176.09	3,051,177.83	13,815,380.09	3,050,781.23	72.74'	3+92.18	18.38R	SET 1/2" I.R. W/CAP
B-150	13,817,227.29	3,051,527.18	13,815,431.29	3,051,130.53	72.98'	7+43.52	16.63L	SET 1/2" I.R. W/CAP
B-151	13,817,235.84	3,051,855.86	13,815,439.83	3,051,459.17	71.42'	10+72.24	9.98L	SET 'X' CUT ON CONC.
B-156	13,816,654.08	3,052,369.31	13,814,858.15	3,051,972.56	0.00'	15+59.98	17.98R	SET 1/2" I.R. W/CAP

SURVEY BASELINE: LINE TABLE		
LINE #	LENGTH	BEARING
L1	530.09	N83° 53' 44.36"E
L2	534.39	S78° 24' 47.68"E
L3	303.20	N70° 42' 34.37"E
L4	834.72	S89° 20' 16.27"E
L5	443.68	N80° 05' 50.29"E
L55	343.86	N15° 50' 07.50"W
L56	273.53	N4° 42' 39.15"E
L7	433.36	S85° 51' 01.43"E
L8	390.69	N81° 55' 32.75"E
L9	298.99	S89° 52' 50.90"E
L61	269.15	S4° 35' 39.30"E
L62	409.37	S2° 28' 09.31"W
L66	267.23	N1° 41' 29.78"W
L67	289.63	N10° 54' 03.52"E
L68	191.10	N2° 01' 04.41"W
L69	280.72	N2° 36' 11.77"W
L70	249.44	N10° 10' 28.66"W
L71	289.83	N3° 14' 57.86"W
L72	165.08	N1° 34' 27.10"W
L73	183.75	N37° 35' 10.62"E

SURVEY BASELINE: LINE TABLE		
LINE #	LENGTH	BEARING
L38	365.23	S86° 32' 03.24"E
L39	387.73	N82° 07' 53.71"E
L40	365.85	S86° 32' 12.74"E
L79	410.33	N3° 18' 54.08"W
L80	333.22	N2° 26' 15.69"W
L81	285.13	N2° 13' 08.50"W
L82	226.68	N3° 31' 35.51"W
L83	271.39	N2° 39' 10.20"W
L84	285.97	N1° 36' 13.82"W
L85	259.96	N4° 59' 46.28"W
L86	457.95	N1° 18' 47.15"W
L207	138.57	N25° 15' 34.02"E
L10	352.29	S68° 24' 06.45"E
L11	218.22	S71° 32' 56.47"E
L12	216.22	S77° 46' 44.94"E
L13	319.41	S7° 32' 23.66"E
L14	199.43	S81° 39' 25.11"W
L15	259.64	S81° 14' 09.19"W
L16	433.03	N80° 42' 44.57"W
L17	203.35	N22° 13' 25.03"W

SURVEY BASELINE: LINE TABLE		
LINE #	LENGTH	BEARING
L18	249.40	S84° 27' 39.03"E
L19	302.12	N80° 28' 17.72"E
L20	325.79	N87° 29' 07.94"E
L21	325.21	N84° 32' 06.21"E
L22	229.50	S75° 29' 00.96"E
L78	227.23	S4° 02' 58.35"E
L23	357.02	N83° 29' 16.49"E
L24	351.55	S87° 55' 54.53"E
L25	256.48	N77° 59' 58.42"E
L26	270.19	S83° 47' 53.66"E
L44	179.87	S77° 49' 23.60"E
L45	310.44	N87° 26' 50.19"E
L46	278.56	N80° 36' 44.13"E
L47	470.48	S85° 21' 49.90"E
L48	303.13	N79° 16' 30.19"E
L30	286.57	N89° 50' 18.79"E
L31	353.08	N81° 39' 41.53"E
L32	328.79	N88° 30' 37.91"E
L33	266.14	S84° 12' 04.90"E
L75	243.07	N12° 04' 24.81"W

SURVEY BASELINE: LINE TABLE		
LINE #	LENGTH	BEARING
L49	466.11	N83° 52' 50.59"E
L50	456.76	S88° 40' 25.63"E
L51	249.99	N88° 18' 26.26"E
L52	162.36	N77° 24' 08.55"E
L53	330.75	S86° 32' 03.06"E
L54	263.62	N87° 54' 13.30"E
L77	248.67	N13° 51' 48.06"W
L74	249.45	N8° 36' 15.75"E
L76	148.81	N1° 20' 40.32"W
L41	177.80	S77° 29' 53.61"E
L42	463.01	N84° 22' 29.46"E
L43	456.67	N89° 59' 12.53"E
L34	190.80	N82° 36' 52.37"E
L35	347.27	S87° 08' 43.19"E
L36	207.43	N80° 31' 59.26"E
L37	358.21	S88° 25' 38.67"E
L57	150.79	N10° 26' 16.03"E
L58	319.65	N1° 09' 10.90"W
L27	423.16	N85° 40' 25.90"E
L28	262.22	S86° 50' 47.33"E

SURVEY BASELINE: LINE TABLE		
LINE #	LENGTH	BEARING
L29	226.82	N78° 01' 57.42"E
L59	309.79	N1° 32' 44.56"W
L63	252.18	N1° 01' 35.86"W
L64	295.41	N2° 44' 31.94"W
L65	288.62	N2° 38' 36.66"E
L60	294.88	N2° 04' 19.80"E

DESIGN BASELINE: CURVE TABLE					
CURVE #	RADIUS	ARC LENGTH	DELTA ANGLE	CHORD BEARING	CHORD DISTANCE
C1	2000.00	346.65	9°55'51"	S87° 38' 11.13"E	346.22
C2	2000.00	200.89	5°45'19"	S85° 32' 54.81"E	200.81
C3	2000.00	144.05	4°07'36"	N89° 30' 37.96"E	144.02
C4	300.00	80.58	15°23'22"	S79° 43' 38.01"E	80.34
C5	65.00	78.87	69°31'10"	S37° 18' 45.01"E	74.12
C6	55.00	65.13	67°50'46"	S36° 37' 46.78"E	61.39
C7	800.00	309.33	22°09'14"	S81° 37' 47.02"E	307.40
C8	100.00	12.03	6°53'41"	S89° 08' 07.41"E	12.03
C9	100.00	11.74	6°43'27"	S89° 03' 00.27"E	11.73
C10	1765.00	264.70	8°35'34"	N1° 44' 36.98"E	264.45
C11	1765.00	110.72	3°35'39"	N4° 14' 34.47"E	110.70
C12	1765.00	156.93	5°05'39"	N0° 06' 04.71"W	156.88

NO.	DATE	REVISION	APP.

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TBPLS Firm Registration No. 1007560

STATE OF TEXAS
REGISTERED
KUTUBUL A. M. MAINUDDIN
6404
PROFESSIONAL
LAND SURVEYOR
08/22/25

SURVEYED BY:
KUO & ASSOCIATES, LLC.
FB NO. P-6382

CITY OF HOUSTON

HOUSTON PUBLIC WORKS

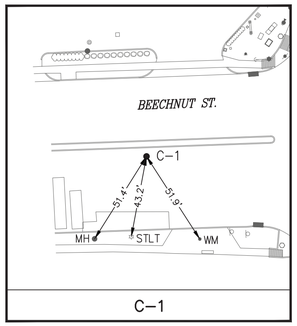
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

SURVEY CONTROL MAP
(SHEET 5 OF 11)

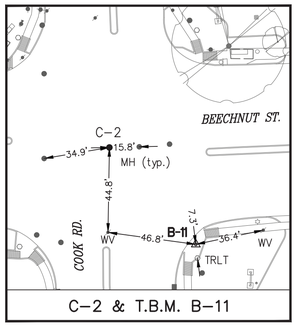
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CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 19 OF 369	

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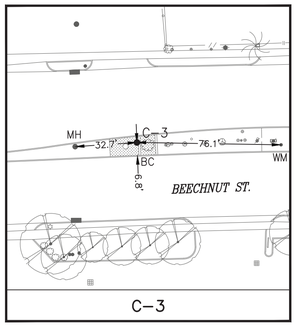
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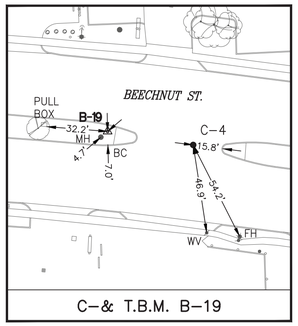
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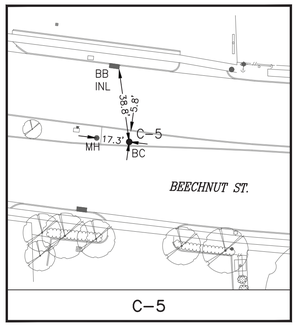
C-2 & T.B.M. B-11



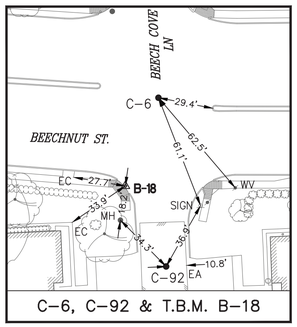
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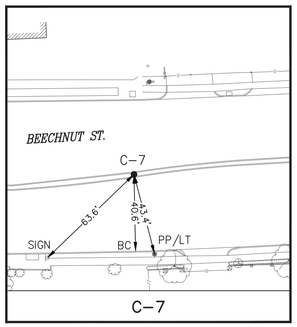
C-& T.B.M. B-19



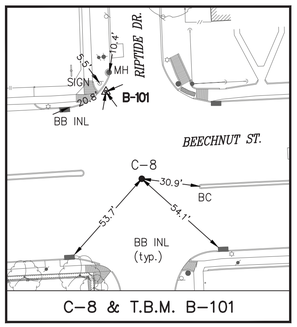
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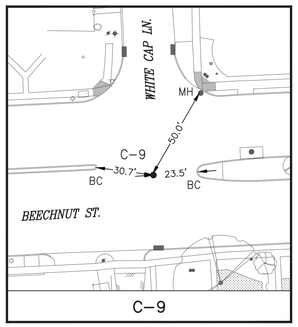
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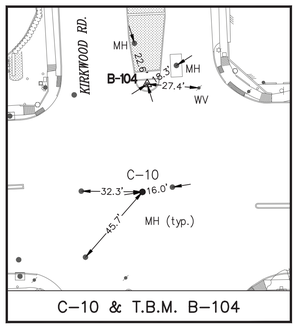
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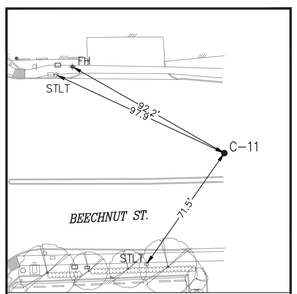
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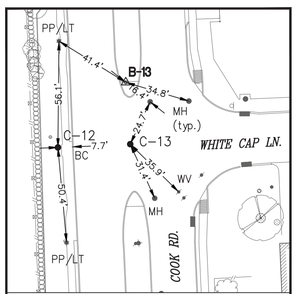
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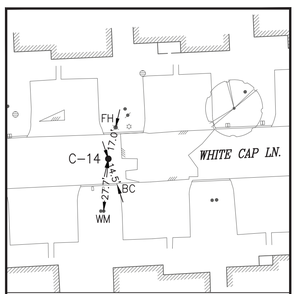
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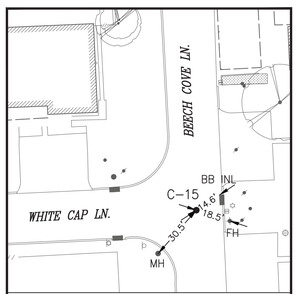
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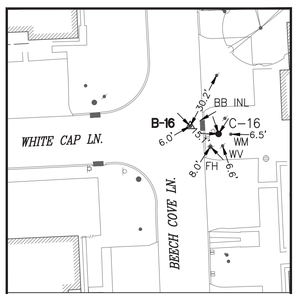
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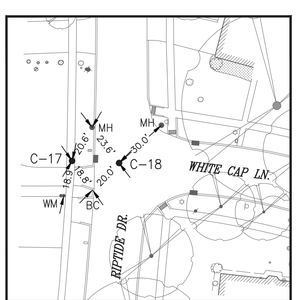
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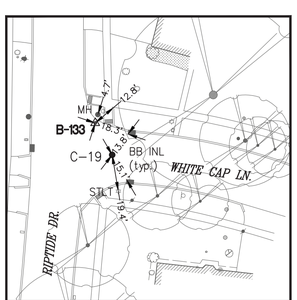
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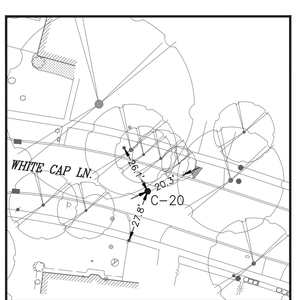
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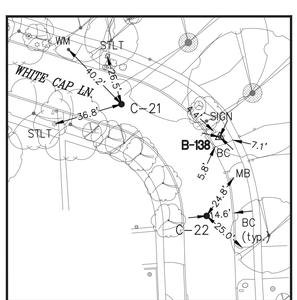
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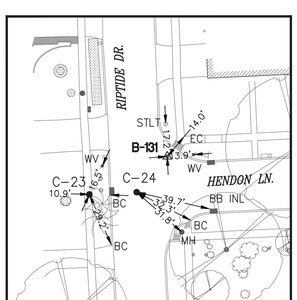
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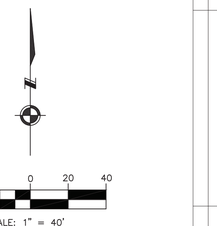
C-20



C-21, C-22 & T.B.M. B-138



C-23, C-24 & T.B.M. B-131



EXIST. TOPOGRAPHIC LEGEND

- ASPHALT SYMBOL
- B OR BB INLET
- BUSH
- C INLET
- CLEANOUT
- brick column
- DOWN GUY
- E INLET
- ELEC MANHOLE
- FIRE HYDRANT
- GAS METER
- GAS VALVE
- GATE
- GRATE INLET
- GRATE INLET
- MAIL BOX
- STORM MANHOLE
- SANITARY MANHOLE
- PLANTER
- POWER POLE
- POWER POLE W/LT.
- SIGN
- SIGNAL POLE
- SPRINKER VALVE
- SPRINKLER HEAD
- STREET LIGHT/FLOOD LIGHT
- STREET LIGHT/PARKING LIGHT
- TREE
- TREE STUMP
- TREE-CREPE MYRTLE
- TREE-PINE
- WATER METER
- WATER VALVE
- IRRIGATION CONTROL VALVE

ABBREVIATIONS

BC – BACK OF CURB
EA – EDGE OF ASPHALT
EC – EDGE OF CONCRETE
EG – EDGE OF GRAVEL
FH – FIRE HYDRANT
FC – FENCE CORNER
LT – LIGHT POLE
MB – MAIL BOX
MH – MANHOLE
PP – POWER POLE
PP/LT – POWER POLE W/LIGHT
STLT – STREET LIGHT
TRLT – TRAFFIC LIGHT
WM – WATER METER

NO.	DATE	REVISION	APP.

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TBPLS Firm Registration No. 1007560

STATE OF TEXAS
REGISTERED
KUTUBUL A. M. MAINUDDIN
6404
PROFESSIONAL
LAND SURVEYOR
10/23/25

SURVEYED BY:
KUO & ASSOCIATES, LLC.
FB NO. P-6382

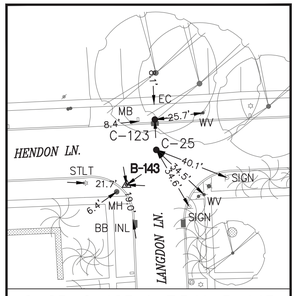
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

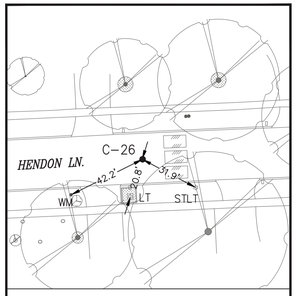
SURVEY CONTROL MAP
(SHEET 6 OF 11)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1" = 40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 20 OF 369	

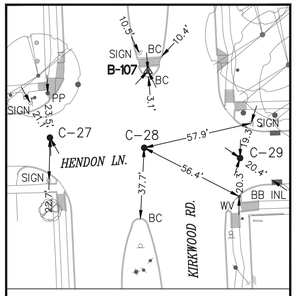
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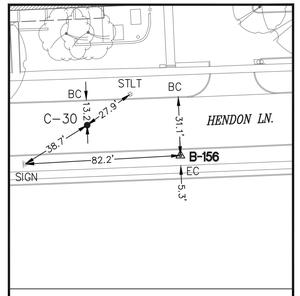
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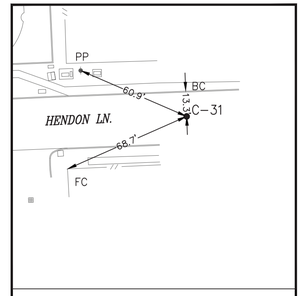
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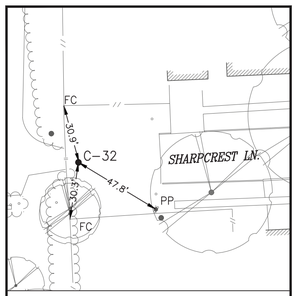
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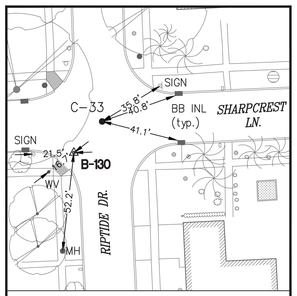
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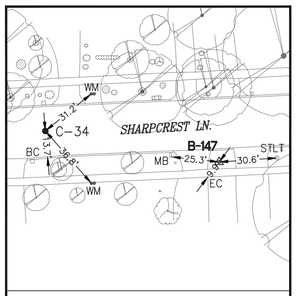
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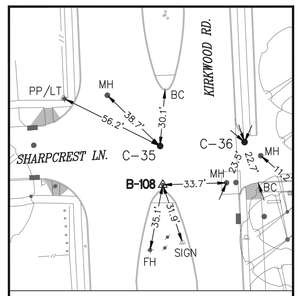
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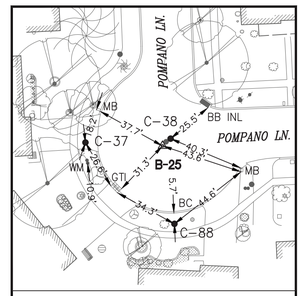
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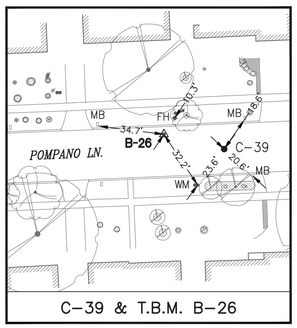
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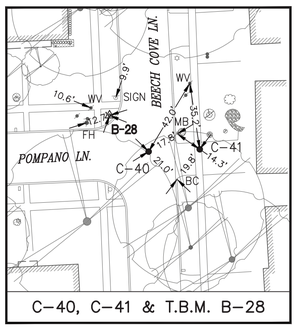
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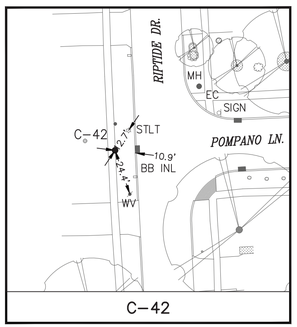
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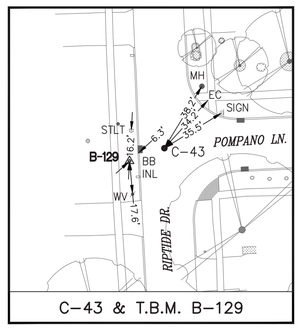
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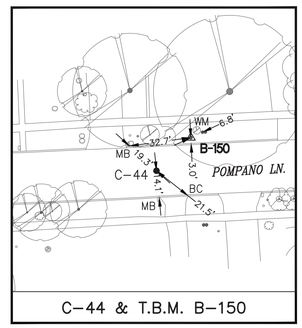
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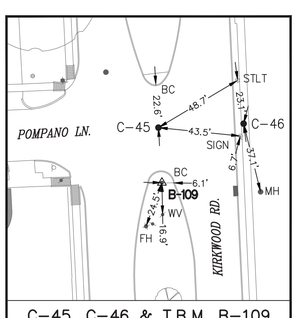
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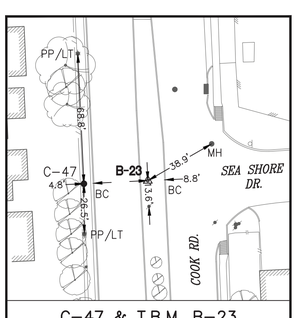
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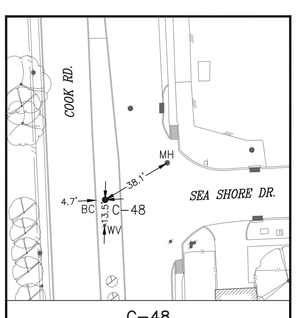
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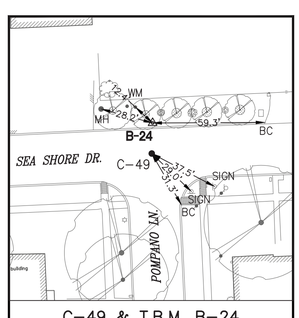
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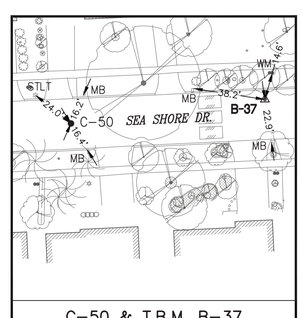
C–47 & T.B.M. B–23



C–48



C–49 & T.B.M. B–24



C–50 & T.B.M. B–37



SCALE: 1" = 40'

EXIST. TOPOGRAPHIC LEGEND

- ASPHALT SYMBOL
- B OR BB INLET
- BUSH
- C INLET
- CLEANOUT
- brick column
- DOWN GUY
- E INLET
- ELEC MANHOLE
- FIRE HYDRANT
- GAS METER
- GAS VALVE
- GATE
- GRATE INLET
- GRATE INLET
- MAIL BOX
- STORM MANHOLE
- SANITARY MANHOLE
- PLANTER
- POWER POLE
- POWER POLE W/LT.
- SIGN
- SIGNAL POLE
- SPRINKER VALVE
- SPRINKLER HEAD
- STREET LIGHT/FLOOD LIGHT
- STREET LIGHT/PARKING LIGHT
- TREE
- TREE STUMP
- TREE–CREPE MYRTLE
- TREE–PINE
- WATER METER
- WATER VALVE
- IRRIGATION CONTROL VALVE

ABBREVIATIONS

BC – BACK OF CURB
EA – EDGE OF ASPHALT
EC – EDGE OF CONCRETE
EG – EDGE OF GRAVEL
FH – FIRE HYDRANT
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LT – LIGHT POLE
MB – MAIL BOX
MH – MANHOLE
PP – POWER POLE
PP/LT – POWER POLE W/LIGHT
STLT – STREET LIGHT
TRLT – TRAFFIC LIGHT
WM – WATER METER

NO.	DATE	REVISION	APP.

ISANI
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Houston, Texas 77042
P 713 747 2399
F 713 748 3748
TBPE Firm Reg. #4575

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Tel: 713-975-8769, Fax: 713-975-0920, www.kuoassociates.com
TBPE Firm Registration No. F-4578
TBPLS Firm Registration No. 1007560

STATE OF TEXAS
REGISTERED
KUTUBUL A. M. MAINUDDIN
6404
PROFESSIONAL
LAND SURVEYOR
10/22/25

SURVEYED BY:
KUO & ASSOCIATES, LLC.
FB NO. P–6382

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

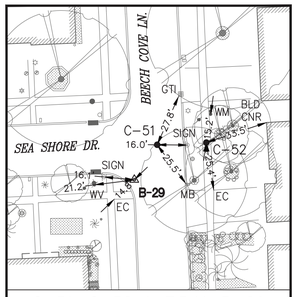
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

SURVEY CONTROL MAP
(SHEET 7 OF 11)

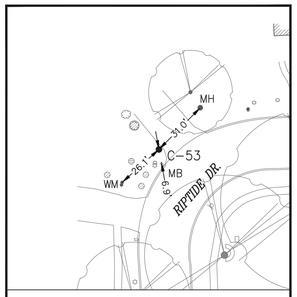
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DRAWING SCALE	
1" = 40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 21 OF 369	

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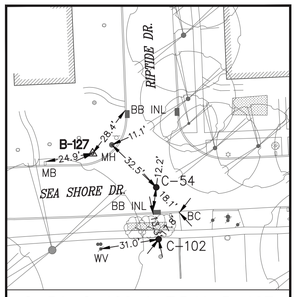
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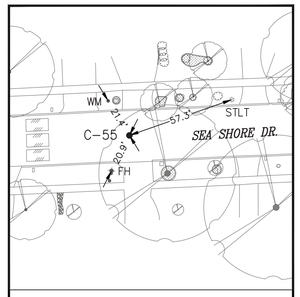
C-51, C-52 & T.B.M. B-29



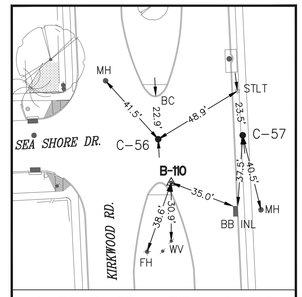
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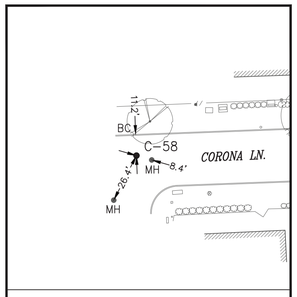
C-54, C-102 & T.B.M. B-127



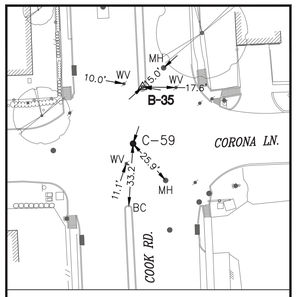
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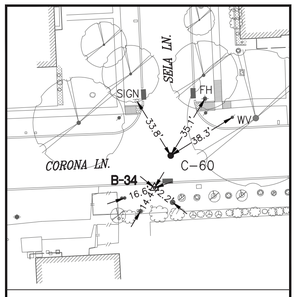
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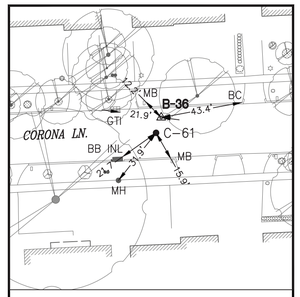
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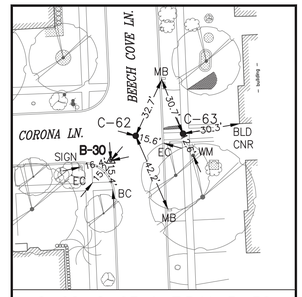
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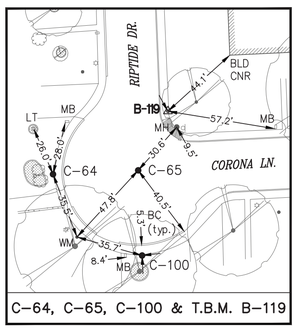
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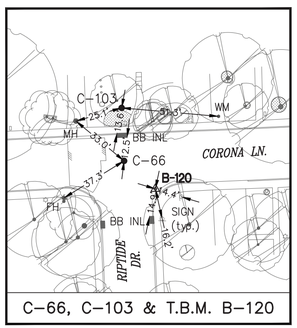
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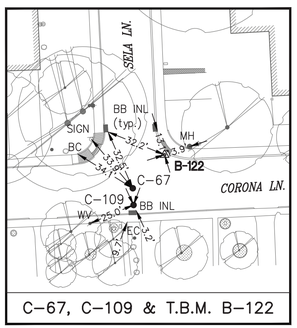
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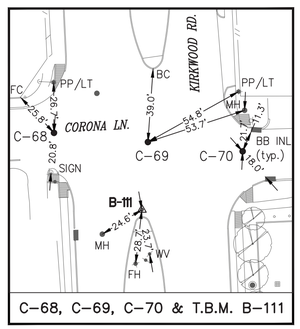
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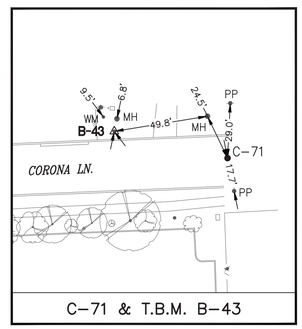
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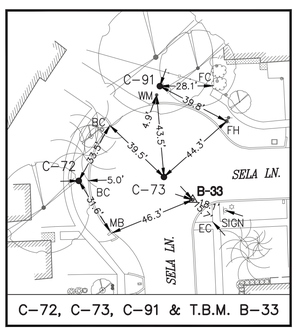
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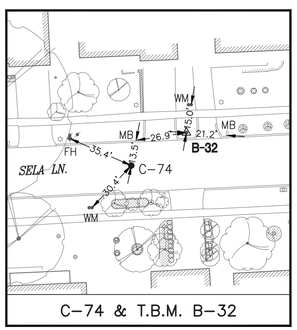
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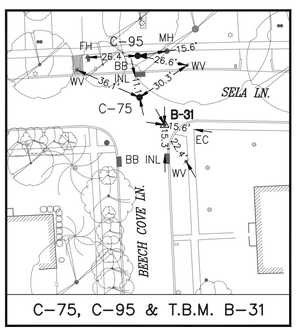
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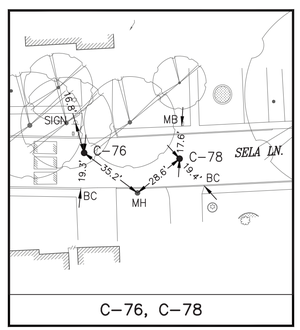
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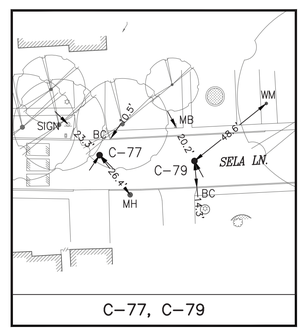
C-74 & T.B.M. B-32



C-75, C-95 & T.B.M. B-31



C-76, C-78



C-77, C-79



EXIST. TOPOGRAPHIC LEGEND

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- B OR BB INLET
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FB NO. P-6382

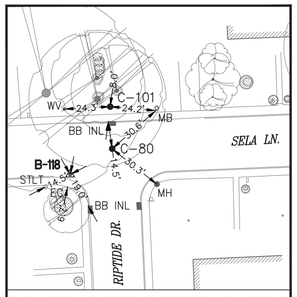
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

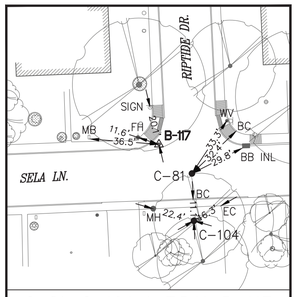
SURVEY CONTROL MAP
(SHEET 8 OF 11)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1" = 40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 22 OF 369	

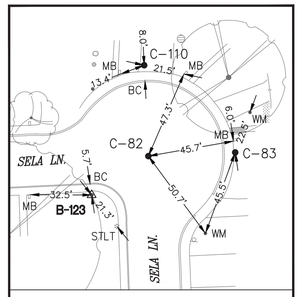
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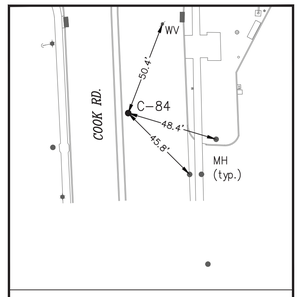
C-80, C-101 & T.B.M. B-118



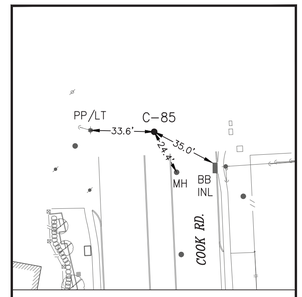
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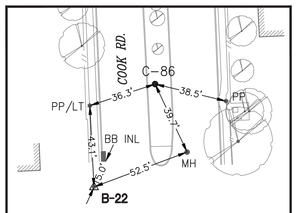
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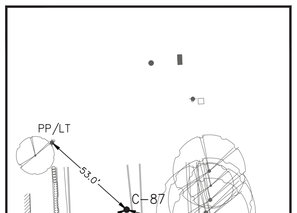
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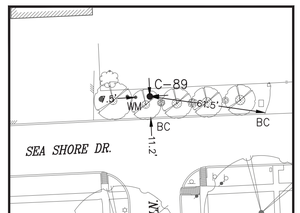
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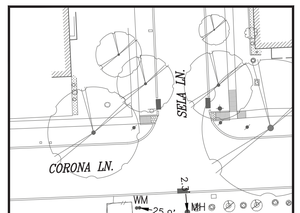
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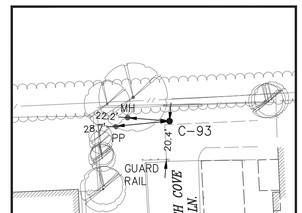
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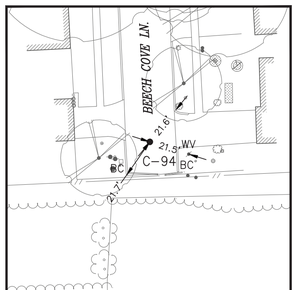
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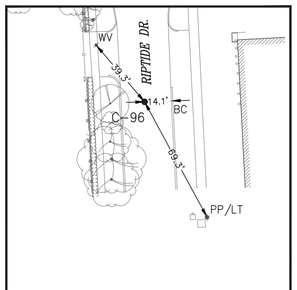
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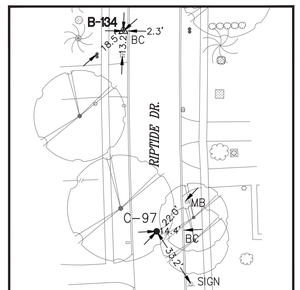
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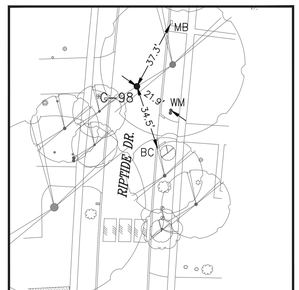
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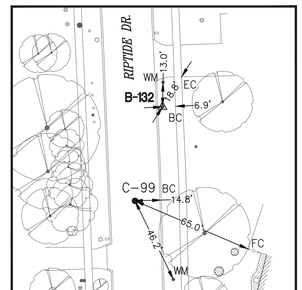
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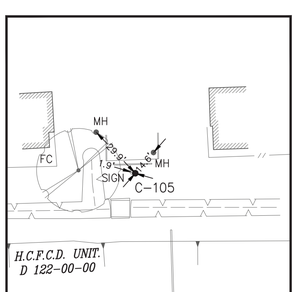
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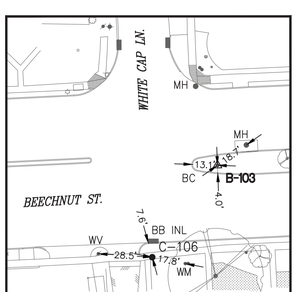
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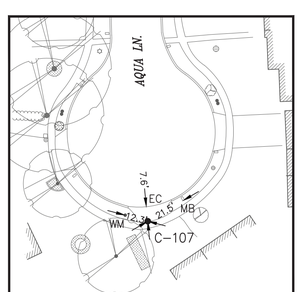
C-99 & T.B.M. B-132



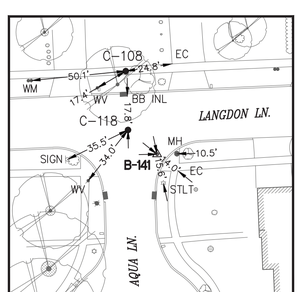
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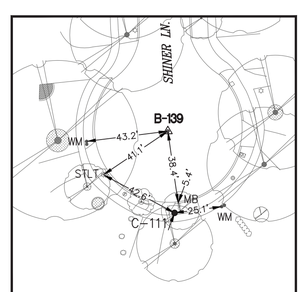
C-106 & T.B.M. B-103



C-107



C-108, C-118 & T.B.M. B-141



C-111 & T.B.M. B-139

EXIST. TOPOGRAPHIC LEGEND

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- CLEANOUT
- brick column
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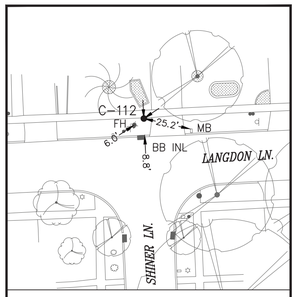
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

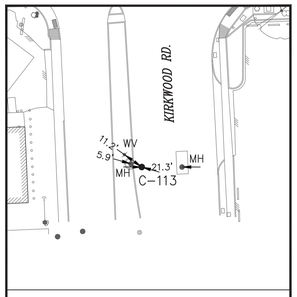
SURVEY CONTROL MAP
(SHEET 9 OF 11)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1" = 40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 23 OF 369	

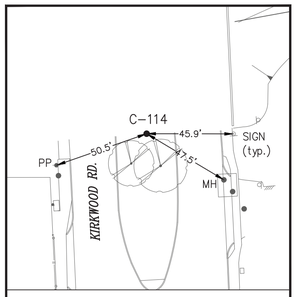
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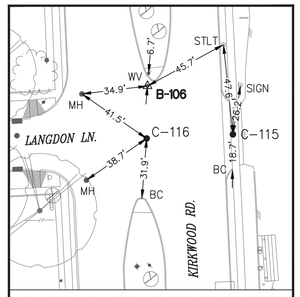
C–112



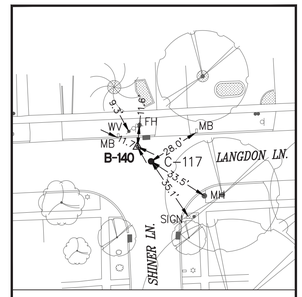
C–113



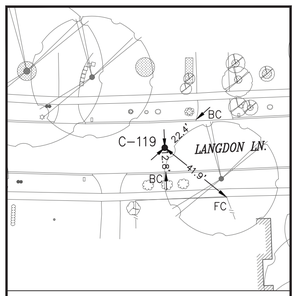
C–114



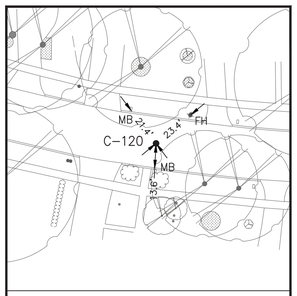
C–115, C–116 & T.B.M. B–106



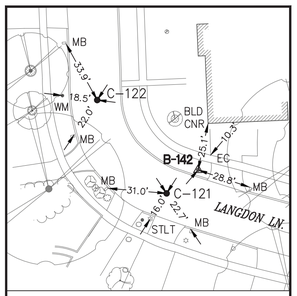
C–117 & T.B.M. B–140



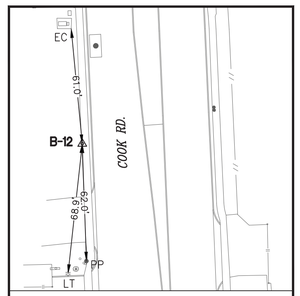
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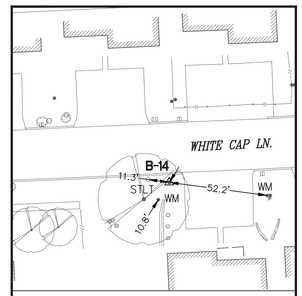
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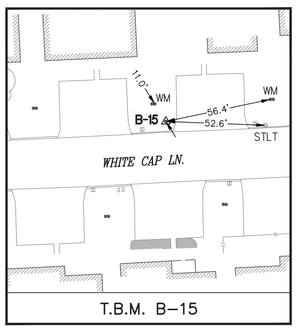
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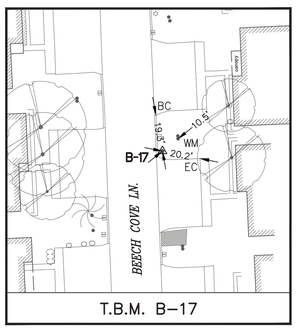
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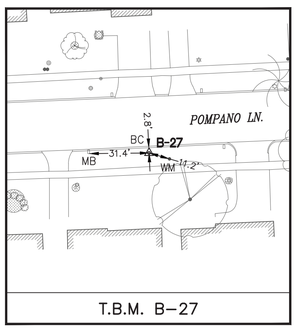
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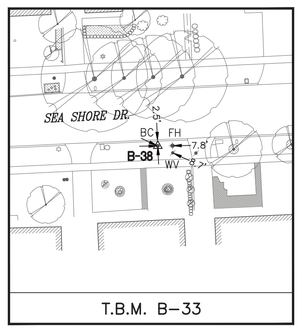
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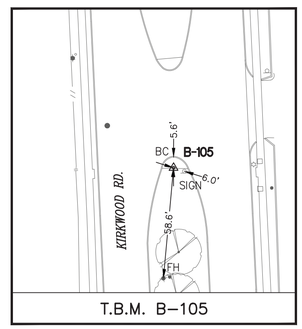
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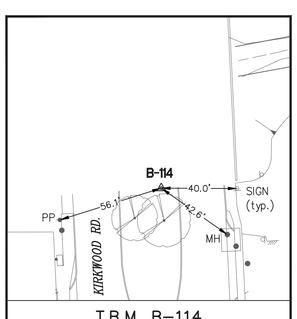
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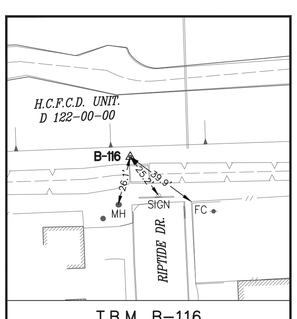
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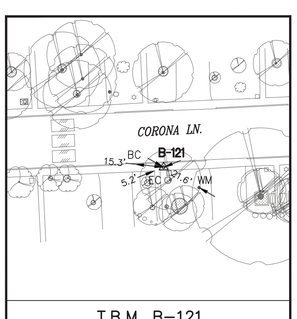
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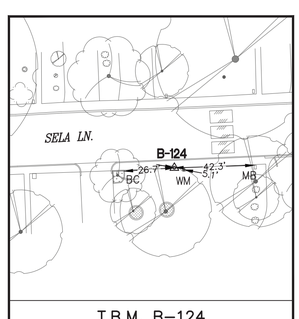
T.B.M. B–114



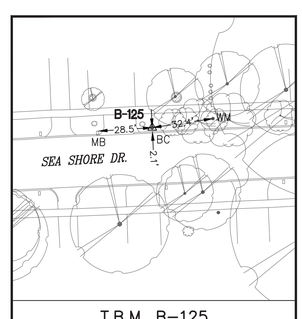
T.B.M. B–116



T.B.M. B–121



T.B.M. B–124



T.B.M. B–125



EXIST. TOPOGRAPHIC LEGEND

- ASPHALT SYMBOL
- B OR BB INLET
- BUSH
- C INLET
- CLEANOUT
- brick column
- DOWN GUY
- E INLET
- ELEC MANHOLE
- FIRE HYDRANT
- GAS METER
- GAS VALVE
- GATE
- GRATE INLET
- GRATE INLET
- MAIL BOX
- STORM MANHOLE
- SANITARY MANHOLE
- PLANTER
- POWER POLE
- POWER POLE W/LT.
- SIGN
- SIGNAL POLE
- SPRINKER VALVE
- SPRINKLER HEAD
- STREET LIGHT/FLOOD LIGHT
- STREET LIGHT/PARKING LIGHT
- TREE
- TREE STUMP
- TREE–CREPE MYRTLE
- TREE–PINE
- WATER METER
- WATER VALVE
- IRRIGATION CONTROL VALVE

ABBREVIATIONS

BC – BACK OF CURB
EA – EDGE OF ASPHALT
EC – EDGE OF CONCRETE
EG – EDGE OF GRAVEL
FH – FIRE HYDRANT
FC – FENCE CORNER
LT – LIGHT POLE
MB – MAIL BOX
MH – MANHOLE
PP – POWER POLE
PP/LT – POWER POLE W/LIGHT
STLT – STREET LIGHT
TRLT – TRAFFIC LIGHT
WM – WATER METER

NO.	DATE	REVISION	APP.

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TBPE Firm Reg. #4575

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TBPE Firm Registration No. F-4578
TBPLS Firm Registration No. 1007560

STATE OF TEXAS
REGISTERED
KUTUBUL A. M. MAINUDDIN
6404
PROFESSIONAL
LAND SURVEYOR
10/22/25

SURVEYED BY:
KUO & ASSOCIATES, LLC.
FB NO. P–6382

CITY OF HOUSTON

HOUSTON PUBLIC WORKS

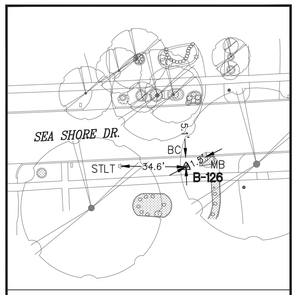
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

SURVEY CONTROL MAP
(SHEET 10 OF 11)

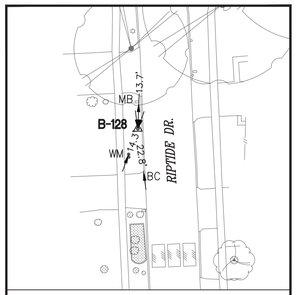
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N–210015–0001–3	
DRAWING SCALE	
1" = 40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 24 OF 369	

PLOT STYLE: COH_JAG_07_2016.ctb

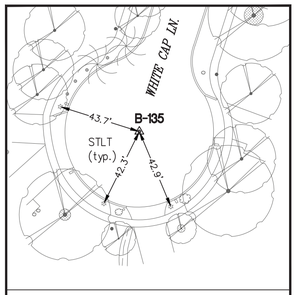
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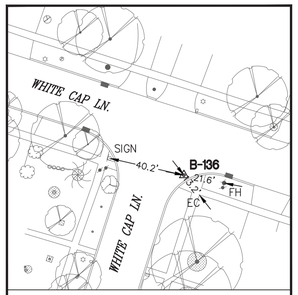
T.B.M. B–126



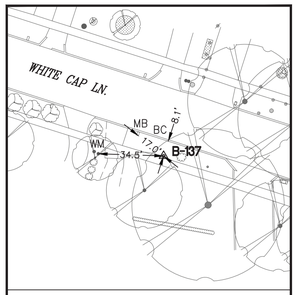
T.B.M. B–128



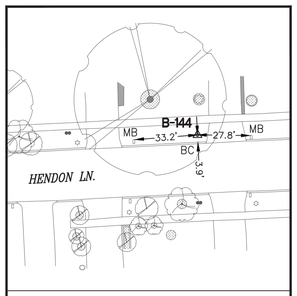
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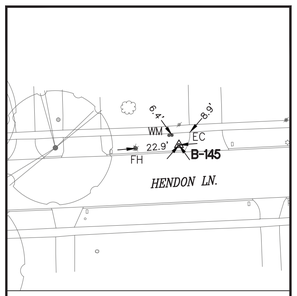
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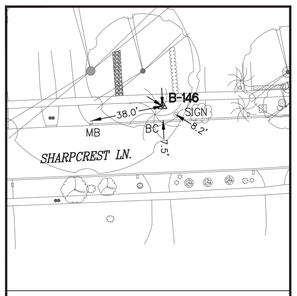
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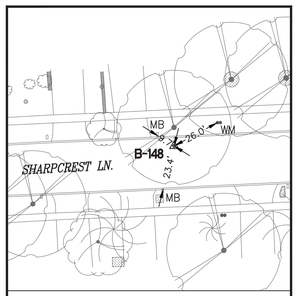
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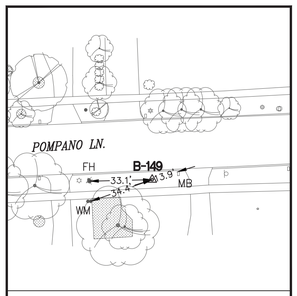
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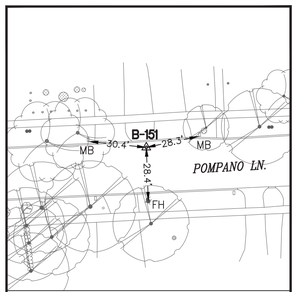
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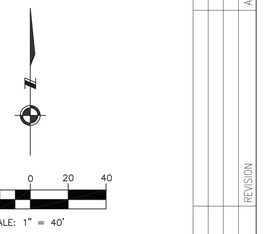
T.B.M. B–148



T.B.M. B–149



T.B.M. B–151



EXIST. TOPOGRAPHIC LEGEND

- ASPHALT SYMBOL
- B OR BB INLET
- BUSH
- C INLET
- CLEANOUT
- brick column
- DOWN GUY
- E INLET
- ELEC MANHOLE
- FIRE HYDRANT
- GAS METER
- GAS VALVE
- GATE
- GRATE INLET
- GRATE INLET
- MAIL BOX
- STORM MANHOLE
- SANITARY MANHOLE
- PLANTER
- POWER POLE
- POWER POLE W/LT.
- SIGN
- SIGNAL POLE
- SPRINKER VALVE
- SPRINKLER HEAD
- STREET LIGHT/FLOOD LIGHT
- STREET LIGHT/PARKING LIGHT
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TRLT – TRAFFIC LIGHT
WM – WATER METER

NO.	DATE	REVISION	APP.

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TBPE Firm Reg. #4575

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TBPE Firm Registration No. F-4578
TBPLS Firm Registration No. 1007560

SURVEYED BY:
KUO & ASSOCIATES, LLC.
FB NO. P-6382

STATE OF TEXAS
REGISTERED
KUTUBUL A. M. MAINUDDIN
6404
PROFESSIONAL
LAND SURVEYOR
10/22/25

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

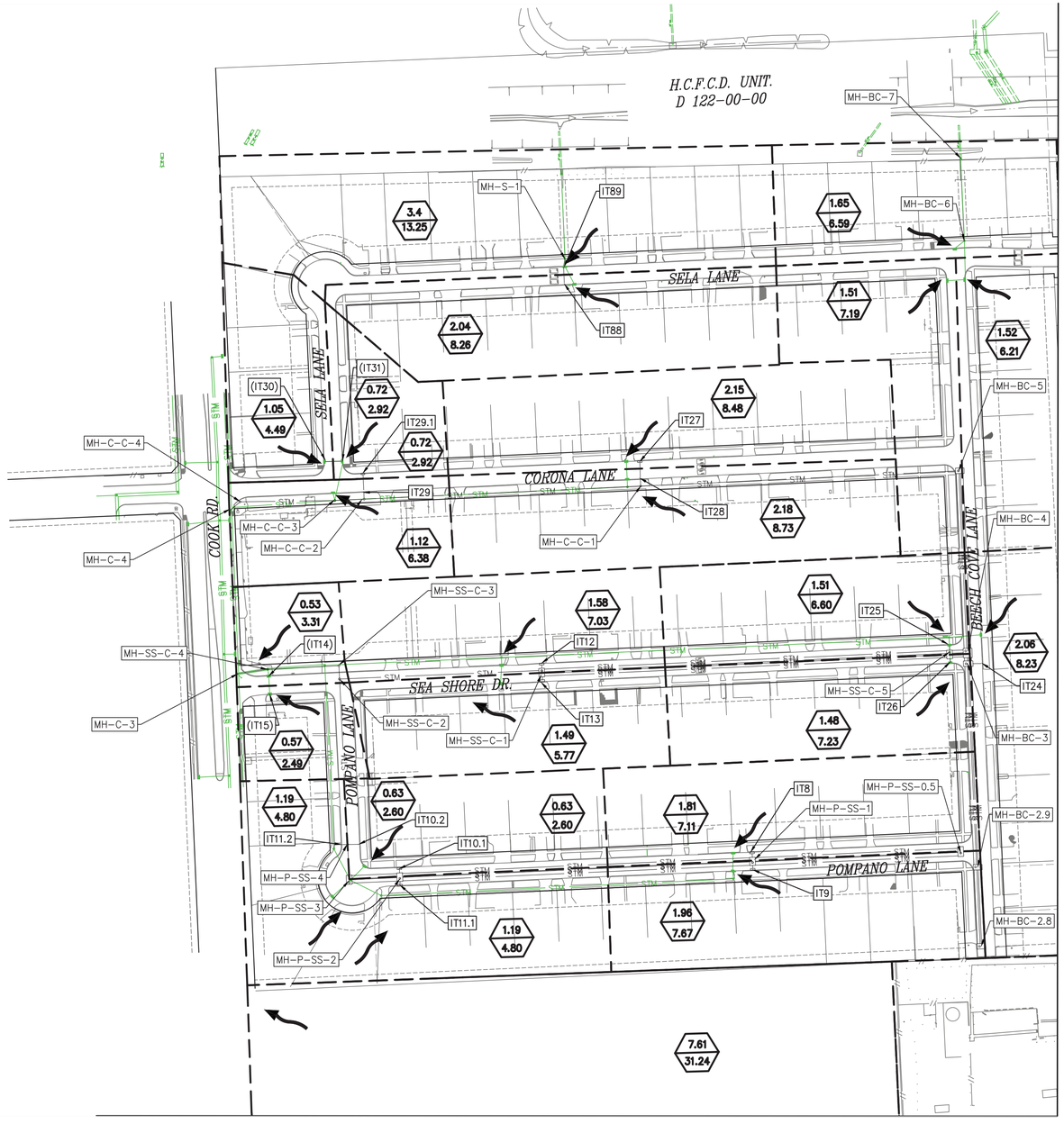
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

SURVEY CONTROL MAP
(SHEET 11 OF 11)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
1" = 40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 24 OF 369	

PLOT STYLE: COH_JAG_07_2016.ctb

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MATCH LINE
SHEET 3 OF 4

MATCH LINE
SHEET 2 OF 4

N

100 0 50 100 200

SCALE: 1" = 100'-0" FEET FOR 22"X34" SHEET

LEGEND

ITXX — DRAINAGE AREA

X.X
XX.XX — AREA (AC)
100-YEAR FLOW (CFS)

OVERLAND FLOW DIRECTION

NOTES:

FIRM PANEL NOs. 48201C0830L
EFFECTIVE DATE: 06/18/2007
PROJECT IS COMPLETELY WITHIN THE 100-YEAR FLOODPLAIN OF BRAYS BAYOU (HCFCD UNIT NO. D100-00-00)

NO.	DATE	REVISION	APP.

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civil \ design \ engineers
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Houston, Texas 77042
P 713 747 2399
F 713 748 3748
TBPE Firm Reg. #4575

SURVEYED BY: Kuo&Associates
FB NO. P-6382

INTERIM REVIEW ONLY
DOCUMENT INCOMPLETE;
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BIDDING OR CONSTRUCTION
ENGINEER: RAHUL B MENON, P.E
P.E.Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

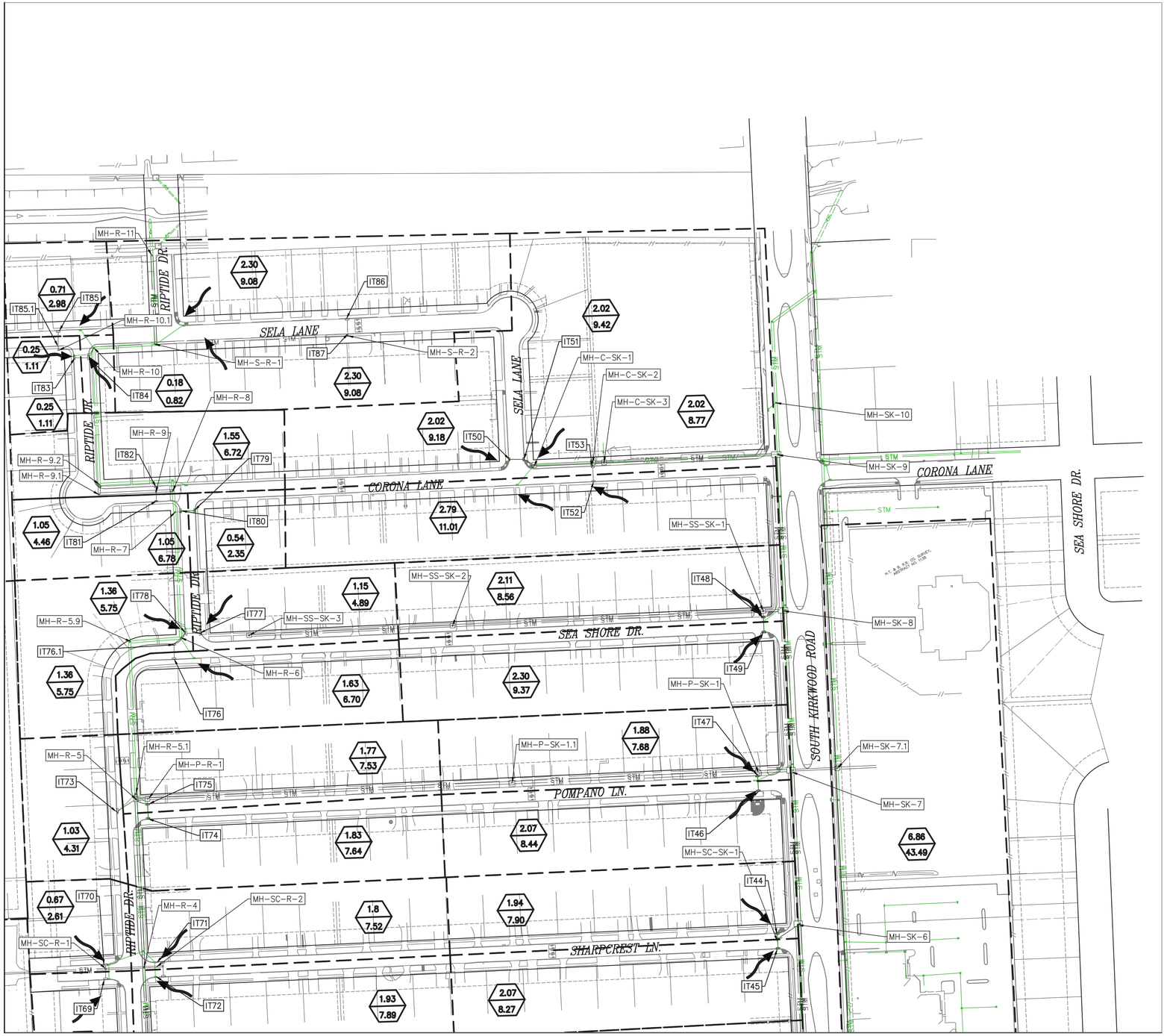
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

DRAINAGE AREA MAP (SHEET 1 OF 4)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1" = 100'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 26 OF 369	

PLOTTED: 8/13/2026 4:38 PM

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MATCH LINE
SHEET 1 OF 4

MATCH LINE
SHEET 4 OF 4

N

100 0 50 100 200

SCALE: 1" = 100'-0" FEET FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.

LEGEND

- ITXX — DRAINAGE AREA
- X.X / XX.XX — AREA (AC) / 100-YEAR FLOW (CFS)
- OVERLAND FLOW DIRECTION

NOTES:

FIRM PANEL NOs. 48201C0830L
EFFECTIVE DATE: 06/18/2007
PROJECT IS COMPLETELY WITHIN THE 100-YEAR FLOODPLAIN OF BRAYS BAYOU (HCFCD UNIT NO. D100-00-00)

ISANI
civil \ design \ engineers
10448 Westoffice Drive
Houston, Texas 77042
F 713 747 2399
F 713 748 3748
TBPE Firm Reg. #4575

SURVEYED BY: Kuo&Associates
FB NO. P-6382

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BIDDING OR CONSTRUCTION
ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

DRAINAGE AREA MAP (SHEET 2 OF 4)

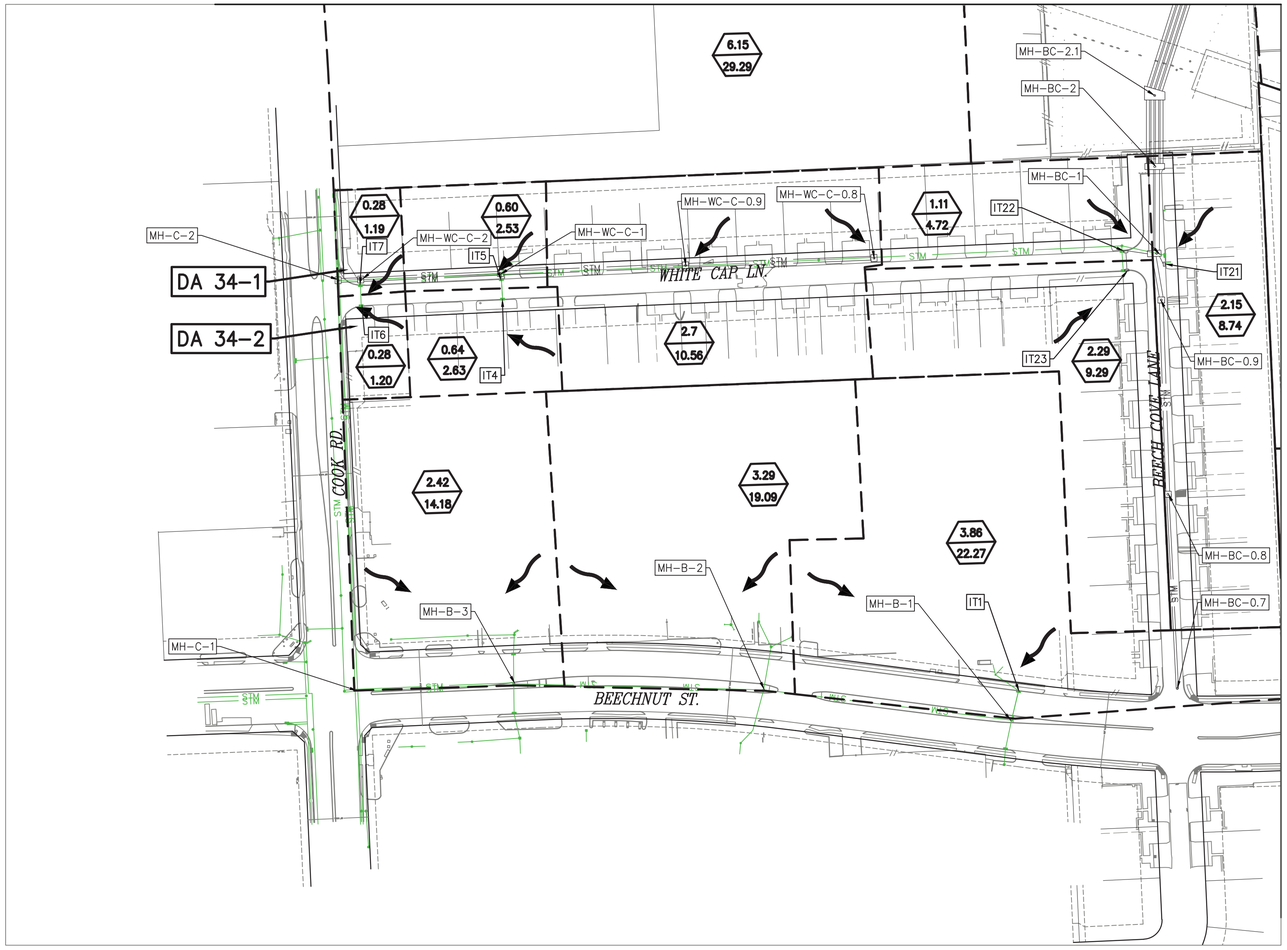
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N-210015-0001-3	
DRAWING SCALE	
1" = 100'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 27 OF 369	

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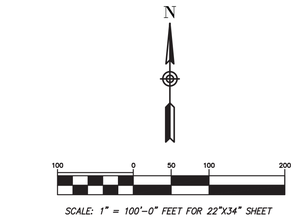
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PLOTTED: 8/13/2026 4:39 PM

MATCH LINE
SHEET 1 OF 4



MATCH LINE
SHEET 4 OF 4



NO.	DATE	REVISION	APP.

LEGEND

ITXX — DRAINAGE AREA

X.X / XX.XX — AREA (AC) / 100-YEAR FLOW (CFS)

OVERLAND FLOW DIRECTION

NOTES:

FIRM PANEL NOs. 48201C0830L

EFFECTIVE DATE: 06/18/2007

PROJECT IS COMPLETELY WITHIN THE 100-YEAR FLOODPLAIN OF BRAYS BAYOU (HCFCD UNIT NO. D100-00-00)

ISANI
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10448 Westoffice Drive
Houston, Texas 77042
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SURVEYED BY: Kuo&Associates
FB NO. P-6382

INTERIM REVIEW ONLY
DOCUMENT INCOMPLETE;
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BIDDING OR CONSTRUCTION
ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

DRAINAGE AREA MAP (SHEET 3 OF 4)

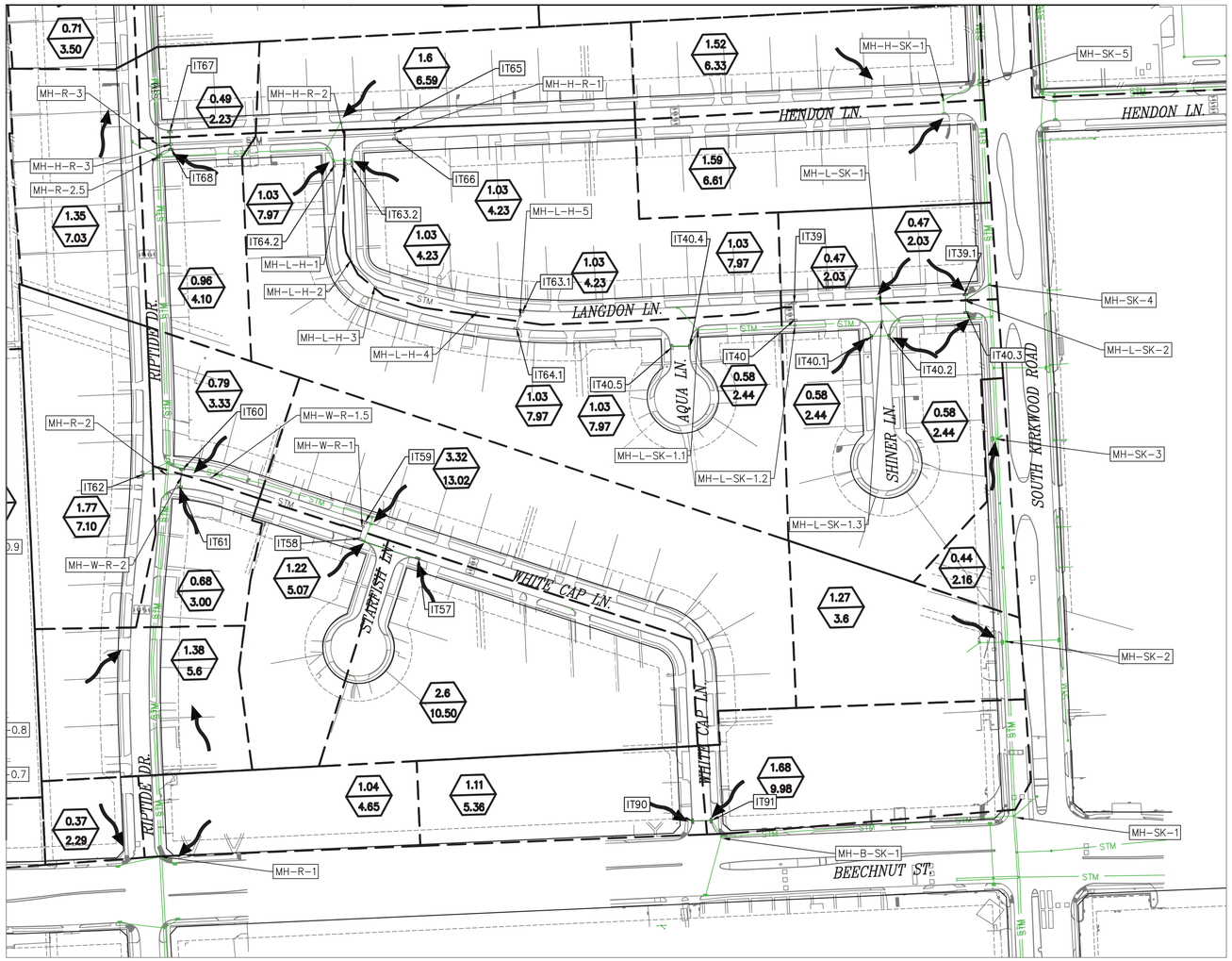
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DRAWING SCALE	
1" = 100'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 28 OF 369	

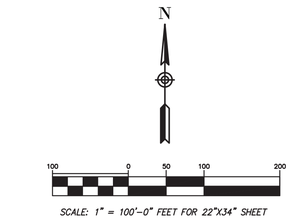
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PLOTTED: 8/13/2026 4:38 PM

MATCH LINE
SHEET 2 OF 4

MATCH LINE
SHEET 3 OF 4





NO.	DATE	REVISION	APP.

LEGEND

ITXX — DRAINAGE AREA

X.X / XX.XX — AREA (AC) / 100-YEAR FLOW (CFS)

OVERLAND FLOW DIRECTION

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
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HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

DRAINAGE AREA MAP (SHEET 4 OF 4)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1" = 100'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 29 OF 369	

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Conduit Calculation Results Based on Atlas 14 Harris County Flood Control District Region 3 Rainfall Data -2 Yr Event

INLET/MH From	INLET/MH To	Area (Acres)	Runoff Coefficient C	Sum of C*A	Intensity I (In/hr)	Time of Conc (Min)	Flow (CIA, cfs)	Sum of Flows (cfs)	Reach Length (ft)	Diam or Rise (in)	Width (ft)	No of Barrel	Slope (%)	Manning's "n"	Design Capacity (cfs)	Design Velocity (fps)	Flowline Elevation Upstream (ft)	Flowline Elevation Downstream (ft)	Elevation HG Upstream (ft)	Elevation HG Downstream (ft)	Elevation Upstream Gutter (ft)	Elevation Downstream Gutter (ft)
WHITECAP LN TO COOK RD																						
MH-WC-C-0.8	MH-WC-C-0.9							1.12	251.50	36.00	5.00		0.10	0.015	45.00	3.00	68.38	68.13	70.68	70.68	73.37	73.23
MH-WC-C-0.9	MH-WC-C-1							5.97	241.50	36.00	5.00		0.10	0.015	44.99	3.00	68.13	67.89	70.68	70.68	73.23	72.50
MH-WC-C-1	MH-WC-C-2							8.32	185.00	36.00	5.00	1.00	0.10	0.015	44.52	2.97	67.89	67.71	70.68	70.67	72.50	73.65
MH-WC-C-2	MH-C-2							9.73	30.00	36.00	5.00	1.00	0.13	0.015	52.12	3.47	67.71	67.67	70.67	70.67	73.65	73.86
POMPANO LN TO SEA SHORE DR*																						
MH-P-SS-0.5	MH-P-SS-1							0.67	305.00	36.00	5.00	2.00	0.10	0.015	90.27	6.02	66.46	66.15	68.98	68.98	72.37	72.37
IT8	MH-P-SS-1	1.81	0.47	0.85	3.67	26.10	3.12	3.12	5.00	24.00			0.20	0.013	10.14	3.23	68.01	68.00	68.98	68.98	71.87	72.37
IT9	MH-P-SS-1	1.96	0.47	0.92	3.66	26.26	3.37	3.37	5.00	24.00			0.20	0.013	10.14	3.23	68.01	68.00	68.98	68.98	71.87	72.37
MH-P-SS-1	MH-P-SS-2							6.15	517.00	36.00	5.00	2.00	0.10	0.015	90.53	6.04	66.15	65.63	68.98	68.97	72.37	72.30
IT10.1	MH-P-SS-2	0.63	0.475	0.30	3.82	24.22	1.14	1.14	5.00	24.00			0.20	0.013	10.14	3.23	66.01	66.00	68.97	68.97	72.30	72.30
IT11.1	MH-P-SS-2	1.19	0.475	0.57	3.73	25.31	2.11	2.11	5.00	24.00			0.20	0.013	10.14	3.23	66.01	66.00	68.97	68.97	72.30	72.30
MH-P-SS-2	MH-P-SS-3							10.76	65.00	36.00	5.00	2.00	0.11	0.015	93.67	6.24	65.63	65.56	68.97	68.96	72.30	72.21
MH-P-SS-3	MH-P-SS-4							10.76	56.00	24.00			0.20	0.013	10.05	3.20	65.56	65.45	68.96	68.84	72.21	72.21
IT10.2	MH-P-SS-4	0.63	0.475	0.30	3.82	24.22	1.14	1.14	15.00	24.00			0.20	0.013	10.14	3.23	68.47	68.44	68.84	68.84	72.21	72.21
IT11.2	MH-P-SS-4	1.19	0.475	0.57	3.73	25.31	2.11	2.11	8.00	24.00			0.25	0.013	11.34	3.61	68.47	68.45	68.84	68.84	72.21	72.21
MH-P-SS-4	MH-SS-C-2							15.32	242.50	24.00			0.21	0.013	10.50	3.34	65.45	64.93	68.84	67.73	72.21	73.03
SEA SHORE DR TO COOK RD*																						
MH-BC-4	MH-SS-C-5							1.36	25.00	36.00	4.00	2.00	0.04	0.015	43.02	3.59	68.29	68.28	68.03	68.03	71.87	71.61
IT25	MH-SS-C-5	1.51	0.52	0.79	3.69	25.76	2.90	2.90	5.00	24.00			0.20	0.013	10.14	3.23	68.29	68.28	68.03	68.03	71.61	71.61
IT26	MH-SS-C-5	1.48	0.58	0.86	3.70	25.71	3.17	3.17	5.00	24.00			0.20	0.013	10.14	3.23	68.48	68.47	68.03	68.03	71.61	71.61
MH-SS-C-5	MH-SS-C-1							4.24	598.00	36.00	4.00	2.00	0.10	0.015	68.14	5.68	66.12	65.52	68.03	68.02	71.61	72.65
IT12	MH-SS-C-1	1.58	0.53	0.84	3.69	25.84	3.09	3.09	5.00	24.00			0.20	0.013	10.14	3.23	66.01	66.00	68.02	68.02	72.65	72.65
IT13	MH-SS-C-1	1.49	0.46	0.69	3.70	25.73	2.53	2.53	5.00	24.00			0.20	0.013	10.14	3.23	66.01	66.00	68.02	68.02	72.65	72.65
MH-SS-C-1	MH-SS-C-2							7.11	297.00	24.00			0.20	0.013	10.11	3.22	65.52	64.93	68.02	67.73	72.65	73.03
MH-SS-C-2	MH-SS-C-3							18.29	19.50	24.00			0.21	0.013	10.27	3.27	64.93	64.89	67.73	67.60	73.03	73.54
MH-SS-C-3	MH-SS-C-4							18.30	104.50	24.00			0.20	0.013	10.17	3.24	64.89	64.68	67.60	66.91	73.54	73.54
MH-SS-C-4	MH-C-3							19.20	45.00	24.00			0.20	0.013	10.14	3.23	64.68	64.59	66.91	66.59	73.54	73.85
ALONG BEECH COVE (FROM BEECHNUT ST TO WHITE CAP LN)																						
MH-BC-0.7	MH-BC-0.8							0.18	256.50	36.00			0.10	0.013	20.88	2.95	65.69	65.44	68.43	68.43	74.15	73.53
MH-BC-0.8	MH-BC-0.9							0.59	256.50	36.00	5.00		0.10	0.015	44.56	2.97	65.44	65.19	68.43	68.43	73.53	72.47
MH-BC-0.9	MH-BC-1							0.87	62.00	36.00	5.00		0.08	0.015	40.53	2.70	65.19	65.14	68.41	68.41	72.47	72.04
IT21	MH-BC-1	2.15	0.49	1.05	3.64	26.44	3.84	3.84	12.00	24.00			0.17	0.013	9.26	2.95	68.15	68.13	68.41	68.41	72.04	72.04
IT23	IT22	2.29	0.49	1.12	3.63	26.57	4.08	4.08	24.00	24.00			0.21	0.013	10.35	3.30	68.23	68.18	68.43	68.43	72.23	72.23
IT22	MH-BC-1	1.11	0.50	0.56	3.74	25.19	2.07	6.15	27.00	24.00			0.19	0.013	9.76	3.11	68.18	68.13	68.43	68.41	72.23	72.04
MH-BC-1	MH-BC-2							8.94	114.50	48.00	6.00	2.00	0.09	0.015	159.12	6.63	65.14	65.04	68.41	68.41	72.04	72.72
MH-BC-2	MH-BC-2.1							7.82	94.00	48.00	2.00	4.00	0.11	0.015	79.12	9.89	64.49	64.39	68.41	68.39	72.72	72.72
ALONG BEECH COVE (SEA SHORE DR TO CORONA LN)																						
MH-BC-2.8	MH-BC-2.9							0.67	116.50	36.00	4.00	2.00	0.10	0.015	69.04	5.75	67.00	66.88	68.34	68.34	73.03	72.93
MH-BC-2.9	MH-BC-3							2.37	298.00	36.00	4.00	2.00	0.10	0.015	68.25	5.69	66.88	66.58	68.34	68.34	72.93	71.89
IT24	MH-BC-3	2.06	0.48	0.99	3.65	26.35	3.61	3.61	12.00	24.00			0.17	0.013	9.26	2.95	66.02	66.00	68.34	68.33	71.89	71.89
MH-BC-3	MH-BC-4							6.68	37.00	36.00	4.00	2.00	0.05	0.015	50.01	4.17	66.58	66.56	68.33	68.33	71.89	71.89
MH-BC-4	MH-BC-5							6.89	246.00	36.00	4.00	2.00	0.11	0.015	69.93	5.83	66.56	66.30	68.33	68.32	71.89	72.35
ALONG CORONA LN (BEECH COVE LN TO COOK RD)*																						
MH-BC-5	MH-C-C-1							7.49	465.50	24.00			0.01	0.013	2.35	0.75	66.06	66.01	68.32	67.81	72.35	72.35
IT27	IT28	2.15	0.48	1.02	3.64	26.44	3.72	3.72	22.00	24.00			0.23	0.013	10.81	3.44	66.06	66.01	67.84	67.84	71.89	71.89
IT28	MH-C-C-1	2.18	0.483	1.05	3.64	26.47	3.83	12.11	10.00	24.00			0.10	0.013	7.17	2.28	66.01	66.00	67.84	67.81	72.35	72.35
MH-C-C-1	MH-C-C-2							11.22	405.50	24.00			0.20	0.013	10.14	3.23	65.37	64.56	67.81	66.81	72.35	73.05
IT29.1	IT29	0.72	0.47	0.34	8.64	24.43	2.92	2.92	26.00	24.00			0.19	0.013	9.95	3.17	66.07	66.02	66.82	66.82	73.05	73.05
IT29	MH-C-C-2	1.12	0.67	0.75	3.74	25.20	2.80	5.73	10.00	24.00			0.20	0.013	10.14	3.23	66.02	66.00	66.82	66.81	73.05	73.05
MH-C-C-2	MH-C-C-3							11.84	43.00	24.00			0.21	0.013	10.38	3.30	64.56	64.47	66.81	66.69	73.05	73.33
MH-C-C-3	MH-C-C-4							13.34	139.00	24.00			0.20	0.013	10.18	3.24	64.47	64.19	66.69	66.21	73.33	73.54
MH-C-C-4	MH-C-4							13.34	14.84	24.00			0.20	0.013	10.20	3.25	64.19	64.16	66.21	66.16	73.54	73.54
ALONG LANGDON LN (AQUA LN TO SOUTH KIRKWOOD RD)*																						
IT40.5	IT40.4	1.03	0.468	0.48	3.75	25.05	1.81	1.81	23.50	24.00			127.83	0.013	256.46	81.63	67.37	37.33	68.49	68.49	69.60	69.60
IT40.4	MH-L-SK-1.1	1.03	0.468	0.48	3.75	25.05	1.81	3.61	26.00	24.00			0.19	0.013	9.95	3.17	67.33	67.28	68.49	68.49	69.60	69.60
MH-L-SK-1.1	MH-L-SK-1.2							5.42	135.00	24.00			0.05	0.013	5.17	1.64	67.02	66.95	68.49	68.41	71.58	71.70
IT39	IT40	0.47	0.498	0.23	3.86	23.76	0.90	0.90	22.00	24.00			0.18	0.013	9.67	3.08	67.00	66.96	68.41	68.41	71.70	71.70
IT40	MH-L-SK-1.2	0.58	0.503	0.29	3.83	24.09	1.12	2.02	5.00	24.00		1.00	0.20	0.013	10.14	3.23	66.96	66.95	68.41	68.41	71.70	71.70
MH-L-SK-1.2	MH-L-SK-1.3							7.44	123.00	24.00			0.36	0.013	13.57	4.32	66.95	66.51	68.41	68.28	71.70	71.84
IT40.1	MH-L-SK-1.3	0.58	0.485	0.28	3.83	24.09	1.08	1.08	25.00	24.00			0.20	0.013	10.14	3.23	64.56	64.51	68.28	68.28	71.46	71.82
IT40.2	MH-L-SK-1.3	0.58	0.485	0.28	3.83	24.09	1.08	1.08	21.00	24.00			0.19	0.013	9.90	3.15	64.55	64.51	68.28	68.28	71.82	72.07
MH-L-SK-1.3	MH-L-SK-1							9.59	24.00	24.00			0.17	0.013	9.26	2.95	64.51	64.47	68.28	68.23	72.07	72.69
MH-L-SK-1	MH-L-SK-2							9.59	118.50	24.00			0.20	0.013	10.08	3.21	64.47	64.24	68.23	68.02	72.69	72.69
IT39.1	MH-L-SK-2	0.47	0.498	0.23	3.86	23.76	0.90	0.90	5.00	24.00			0.20	0.013	10.14	3.23	68.03	68.02	68.02	68.02	72.69	72.69
IT40.3	MH-L-SK-2	0.58	0.485	0.28	3.83	24.09	1.08	1.08	15.00	24.00			0.13	0.013	8.28	2.64	68.21	68.19	68.02	68.02	72.69	72.69
MH-L-SK-2	MH-SK-4							11.57	38.00	24.00			0.21	0.013	10.41	3.31	66.00	65.92	68.02	67.92	72.69	72.74
ALONG SHARPCREST ST (AFTER STA 12+00 TO SOUTH KIRKWOOD RD)																						
IT44	MH-SC-SK-1	1.94	0.49	0.95	3.66	26.24	3.48	3.48	5.00	24.00			0.20	0.013	10.14	3.23	66.01	66.00	71.36	71.36	70.89	70.89
IT45	MH-SC-SK-1	2.07	0.48	0.99	3.65	26.36	3.62	3.62	15.00	24.00			0.20	0.013	10.14	3.23	66.03	66.00	71.36	71.36	70.89	70.89
MH-SC-SK-1	MH-SK-6							7.06	36.00	24.00			0.17	0.013	9.26	2.95	64.17	64.11	71.36	71.32	70.89	70.85
ALONG POMPANO LN (RIP TIDE DR TO SOUTH KIRKWOOD RD)																						
IT46	IT47	2.07	0.49	1.01	3.65	26.36	3.70	3.70	23.00	24.00			0.13	0.013	8.19	2.61	66.40	66.37	70.76	70.76	72.63	72.63
IT47	MH-P-SK-1	1.88	0.504	0.95	3.66	26.18	3.47	11.39	3.00	24.00			0.33	0.013	13.10	4.17	66.37	66.36	70.76	70.75	72.63	72.63
IT74	IT75	1.83	0.50	0.92	3.67	26.12	3.35	7.64	21.50	24.00			0.20	0.013	10.14	3.23	67.28	67.24	71.13	71.10	70.88	70.88
IT75	MH-P-R-1	1.77	0.509	0.90	3.67	26.06	3.30	14.90	5.00	24.00			0.80	0.013	20.29	6.46	67.24	67.20	71.10	71.08	70.88	70.88
MH-P-R-1	MH-P-SK-1.1							28.46	644.90	48.00	4.00	1.00	0.10	0.015	50.07	3.13	65.25	64.61	71.08	70.88	70.88	71.94
MH-P-SK-1.1	MH-P-SK-1							26.96	435.10	48.00	4.00	1.00	0.10	0.015	50.54	3.16	64.61	64.17	70.88	70.75	71.94	72.63
MH-P-SK-1	MH-SK-7							30.92	62.00	48.00	4.00	1.00	0.10	0.015	49.44	3.09	64.17	64.11	70.75	70.73	72.63	72.16
ALONG SEA SHORE DR (FROM STA 3+00 TO SOUTH KIRKWOOD RD)*																						
MH-SS-SK-3	MH-SS-SK-2							0.77	360.50	48.00	4.00		0.10	0.015	50.22	3.14	64.86	64.50	69.17	69.17	71.25	72.28
MH-SS-SK-2	MH-SS-SK-1							2.49	550.00	48.00	4.00		0.28	0.015	84.37	5.27	64.50	62.95	69.17	69.17	72.28	70.42
IT49	IT48	2.30	0.49	1.13	3.64	26.41	4.11	4.11	21.50	24.00			0.20	0.013	10.14	3.23	66.05	66.01	69.18	69.17	70.42	70.42
IT48	MH-SS-SK-1	2.11	0.49	1.03	3.63	26.58	3.75	7.86	6.00	24.00			0.20	0.013	10.14	3.23	66.01	66.00	69.17	69.17	70.42	70.42
MH-SS-SK-1	MH-SK-8							7.92	39.00	48.00	4.00	1.00	0.10	0.015	50.90	3.18	63.95	63.91	69.17	69.17	70.42	70.33
ALONG CORONA LN (SELA LN TO SOUTH KIRKWOOD RD)*																						
IT50	IT51	2.02	0.546	1.10	3.65	26.32	4.03	4.03	23.00	24.00			0.26	0.013	11.59	3.69	64.47	64.41	69.02	69.01	70.32	70.32
IT51	MH-C-SK-1	2.02	0.561	1.13	3.65	26.32	4.13	8.16	16.00	24.00			0.19	0.013	9.82	3.13	64.41	64.38	69.01	68.99	70.32	70.83
IT52	IT53	2.79	0.48	1.34	3.60	26.98	4.82	4.82	22.00	24.00			0.18	0.013	9.67	3.08	66.05	66.01	69.00	68.99	70.48	70.48
IT53	MH-C-SK-2	2.02	0.522	1.05	3.65	26.32	3.85	8.67	3.00	24.00			0.33	0.013	13.10	4.17	66.01	66.00	68.99	68.98	70.48	70.48
MH-C-SK-1	MH-C-SK-2							8.16	103.50	48.00	4.00	1.00	0.14	0.015	58.45	3.65	64.38	64.24	68.99	68.99	70.83	70.48
MH-C-SK-2	MH-C-SK-3							16.83	20.38	48.00	4.00		0.10	0.015	49.79	3.11	64.24	64.22	68.99	68.98	70.48	70.48
MH-C-SK-3	MH-SK-9							16.83	308.50	48.00	4.00	1.00	0.09	0.015	47.02	2.94	64.22	63.95	68.98	68.95	70.48	70.92

NOTE:

DETENTION SUMMARY:
CUT VOLUME = 11.76 AC–FT
FILL VOLUME = 0.64 AC–FT
NET (CUT – FILL) VOLUME = 11.12 AC–FT
PROVIDED DETENTION VOLUME IN POND 1 & 2 = 47 AC–FT

* NO NET FILL IN FLOODPLAIN

2–YEAR FLOW IS CONVEYED WITHIN THE DRAINAGE SYSTEM.

* FLOW RESTRICTORS HAVE BEEN PLACED AT THE OUTFALL FOR EACH SYSTEM TO CONTROL THE OUTFLOWS AND AN INLINE DETENTION IS USED TO MITIGATE THE EXCESS FLOWS

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P–6382

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

DRAINAGE CALCULATIONS (SHEET 1 OF 4)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 30 OF 369	

PLOTTED: 8/13/2026 4:38 PM
FILE PATH: P:\ACTIVE\18PV97 – 2024 Update\Ph II\Working\CAD\18PV97_Drainage Calculation.dwg

Conduit Calculation Results Based on Atlas 14 Harris County Flood Control District Region 3 Rainfall Data -2 Yr Event

INLET/MH From	INLET/MH To	Area (Acres)	Runoff Coefficient C	Sum of C*A	Intensity I (In/hr)	Time of Conc (Min)	Flow (CIA, cfs)	Sum of Flows (cfs)	Reach Length (ft)	Diam or Rise (in)	WIDTH	No of Barrel	Slope (%)	Manning's "n"	Design Capacity (cfs)	Design Velocity (fps)	Flowline Elevation Upstream (ft)	Flowline Elevation Downstream (ft)	Elevation HG Upstream (ft)	Elevation HG Downstream (ft)	Elevation Upstream Gutter (ft)	Elevation Downstream Gutter (ft)
ALONG S KIRKWOOD RD (HENDON LN TO CORONA LN)*																						
MH-SK-5	MH-SK-6							73.91	272.00	48.00		2.00	0.10	0.013	90.76	7.22	62.15	61.88	69.81	69.09	71.65	70.85
MH-SK-6	MH-SK-7							80.56	272.00	48.00		2.00	0.10	0.013	89.06	7.09	61.88	61.62	69.09	68.24	70.85	72.16
MH-SK-7	MH-SK-8							108.91	283.50	48.00		2.00	0.10	0.013	88.90	7.07	61.62	61.35	68.24	66.61	72.16	70.33
MH-SK-8	MH-SK-9							113.80	275.50	60.00		2.00	0.10	0.013	163.50	8.33	61.35	61.08	66.61	66.08	70.33	70.92
TO POND 2																						
MH-SK-7	MH-SK-7.1							0.52	71.50	24.00	4.00		0.11	0.013	23.41	2.93	67.29	67.21	71.16	71.16	72.16	72.37
MH-SK-7.1	Pond 2 Inflow							38.72	28.00	48.00			0.25	0.013	72.01	5.73	62.87	62.80	66.82	66.80	72.37	72.37
ALONG WHITE CAP LN (BEECHNUT ST TO RIPTIDE DR)*																						
IT57	IT58	2.60	0.49	1.27	3.61	26.84	4.60	4.60	86.00	24.00			0.20	0.013	10.14	3.23	67.51	67.34	71.82	71.78	71.46	71.46
IT58	MH-W-R-1	1.22	0.490	0.60	3.72	25.36	2.23	6.83	15.00	24.00			0.20	0.013	10.14	3.23	67.35	67.32	71.78	71.77	71.46	71.46
IT59	MH-W-R-1	3.32	0.48	1.59	3.58	27.35	5.70	5.70	5.00	24.00			0.20	0.013	10.14	3.23	67.33	67.32	71.77	71.77	71.46	71.46
MH-W-R-1	MH-W-R-1.5							12.38	223.00	24.00			0.20	0.013	10.19	3.24	66.00	65.55	71.77	71.10	71.46	72.20
MH-W-R-1.5	MH-W-R-2							12.38	41.00	24.00			0.20	0.013	10.02	3.19	65.55	65.47	71.10	70.98	72.58	72.20
IT60	MH-W-R-2	0.79	0.49	0.39	3.79	24.59	1.47	1.47	5.00	24.00			0.20	0.013	10.14	3.23	66.81	66.80	70.98	70.98	72.20	72.20
IT61	MH-W-R-2	0.68	0.51	0.35	3.81	24.34	1.32	1.32	15.00	24.00			0.20	0.013	10.14	3.23	66.83	66.80	70.98	70.98	72.20	72.20
IT62	MH-R-2	1.77	0.48	0.85	3.67	26.06	3.12	3.12	35.00	24.00			0.20	0.013	10.14	3.23	66.92	66.85	70.89	70.89	72.16	72.20
MH-W-R-2	MH-R-2							15.09	20.00	24.00			0.20	0.013	10.14	3.23	65.47	65.43	70.98	70.89	72.20	72.28
LANDGON LN TO HENDON LN TO RIPTIDE DR*																						
IT63.1	MH-L-H-5	1.03	0.480	0.50	3.75	25.06	1.86	4.23	5.00	24.00			0.20	0.013	10.14	3.23	67.20	67.19	73.42	73.42	71.46	71.45
IT64.1	MH-L-H-5	1.03	0.468	0.48	3.75	25.05	1.81	7.97	16.00	24.00			0.19	0.013	9.82	3.13	67.22	67.19	73.44	73.42	71.46	71.45
MH-L-H-5	MH-L-H-4							12.21	61.00	24.00			0.21	0.013	10.47	3.33	67.19	67.06	73.42	73.24	71.45	71.93
MH-L-H-4	MH-L-H-3							12.21	147.00	24.00			0.19	0.013	9.90	3.15	67.06	66.78	73.24	72.82	71.93	72.24
MH-L-H-3	MH-L-H-2							12.20	55.00	24.00			0.20	0.013	10.14	3.23	66.78	66.67	72.82	72.66	72.24	71.97
MH-L-H-2	MH-L-H-1							12.20	137.50	24.00			0.20	0.013	10.05	3.20	66.67	66.40	72.66	72.26	71.97	71.34
IT63.2	MH-L-H-1	1.03	0.480	0.50	3.75	25.06	1.86	4.23	6.03	24.00			0.17	0.013	9.24	2.94	66.41	66.40	72.26	72.26	71.34	71.34
IT64.2	MH-L-H-1	1.03	0.468	0.48	3.75	25.05	1.81	1.81	13.80	24.00			0.22	0.013	10.58	3.37	66.43	66.40	72.26	72.25	71.34	71.34
MH-L-H-1	MH-H-R-2							24.60	39.50	24.00			0.18	0.013	9.55	3.04	66.40	66.33	72.25	71.79	71.34	71.77
IT65	MH-H-R-1	1.60	0.49	0.78	3.69	25.86	2.89	2.89	15.00	24.00			0.20	0.013	10.14	3.23	66.51	66.48	71.79	71.79	71.65	71.65
IT66	MH-H-R-1	1.03	0.480	0.50	3.75	25.06	1.86	4.23	5.00	24.00			0.20	0.013	10.14	3.23	66.49	66.48	71.79	71.79	71.65	71.65
MH-H-R-1	MH-H-R-2							7.43	71.00	48.00			0.20	0.013	63.96	5.09	65.48	65.34	71.79	71.79	71.65	71.77
IT67	MH-H-R-3	0.49	0.52	0.25	3.85	23.81	0.98	0.98	15.00	24.00			0.20	0.013	10.14	3.23	66.03	66.00	71.23	71.23	71.77	71.76
IT68	MH-H-R-3	0.96	0.50	0.48	3.76	24.94	1.80	1.80	5.00	24.00			0.20	0.013	10.14	3.23	66.01	66.00	71.23	71.23	71.76	71.76
MH-H-R-2	MH-H-R-3							32.03	243.00	36.00			0.20	0.013	29.72	4.21	65.34	64.86	71.79	71.23	71.77	71.76
MH-H-R-3	MH-R-3							38.04	18.50	36.00			0.16	0.013	26.93	3.81	64.86	64.83	71.23	71.17	71.76	71.98
SHARPCREST ST TO RIPTIDE DR*																						
IT69	MH-SC-R-1	0.71	0.570	0.40	3.80	24.41	1.54	9.77	15.00	24.00			0.20	0.013	10.14	3.23	66.03	66.00	69.23	69.20	70.97	70.97
IT70	MH-SC-R-1	0.67	0.45	0.30	3.81	24.32	1.15	1.15	5.00	24.00			0.20	0.013	10.14	3.23	66.01	66.00	69.20	69.20	70.97	70.97
IT71	MH-SC-R-2	1.80	0.50	0.90	3.67	26.09	3.30	3.30	5.00	24.00			0.20	0.013	10.14	3.23	66.01	66.00	68.99	68.98	71.64	71.64
IT72	MH-SC-R-2	1.93	0.49	0.95	3.66	26.23	3.46	3.46	15.00	24.00			0.20	0.013	10.14	3.23	66.03	66.00	68.99	68.98	71.64	71.64
MH-SC-R-1	MH-R-4							23.93	67.00	30.00			0.40	0.013	26.11	5.32	63.51	63.24	69.20	68.97	70.97	70.97
MH-SC-R-2	MH-R-4							9.95	21.50	30.00			1.26	0.013	46.09	9.39	63.51	63.24	68.98	68.97	71.64	70.97
INTERSECTION OF RIPTIDE DR AND POMPANO LN																						
IT73	MH-R-5	1.03	0.49	0.50	3.75	25.06	1.89	1.89	35.00	24.00			0.06	0.013	5.42	1.73	67.19	67.17	72.45	72.44	71.19	71.15
INTERSECTION OF RIPTIDE DR AND SEA SHORE DR*																						
IT76	IT76.1	1.63	0.49	0.80	3.68	25.90	2.94	2.94	26.00	24.00			0.19	0.013	9.95	3.17	66.05	66.00	68.00	68.00	70.34	70.34
IT76.1	MH-R-6	1.36	0.50	0.68	3.71	25.56	2.53	5.47	15.00	24.00			0.20	0.013	10.14	3.23	66.00	65.97	67.98	67.97	70.34	70.34
IT77	IT78	1.15	0.50	0.58	3.73	25.24	2.15	2.15	22.00	24.00			0.18	0.013	9.67	3.08	65.97	65.93	71.35	71.35	70.34	70.34
IT78	MH-R-6	1.36	0.501	0.68	3.71	25.56	2.53	4.67	9.00	24.00			0.22	0.013	10.69	3.40	65.93	65.91	71.35	71.34	70.34	70.34
INTERSECTION OF RIPTIDE DR CORONA LN																						
IT79	IT80	0.54	0.50	0.27	3.84	23.99	1.04	1.04	22.00	24.00			0.18	0.013	9.67	3.08	66.84	66.80	72.24	72.23	70.40	70.40
IT80	MH-R-7	0.51	0.501	0.26	3.84	23.88	0.98	2.02	9.00	24.00			0.22	0.013	10.69	3.40	66.80	66.78	72.23	72.23	70.40	70.40
ALONG CORONA LN (FROM STA 1+00 TO 4+00)																						
MH-R-8	MH-R-9							66.76	30.50	48.00			0.20	0.013	63.88	5.08	60.71	60.65	66.24	66.18	70.94	70.94
IT81	MH-R-9	0.55	0.52	0.29	3.69	25.80	1.06	1.06	15.00	24.00			0.20	0.013	10.14	3.23	66.03	66.00	66.18	66.18	70.94	70.94
IT82	MH-R-9	1.55	0.478	0.24	3.69	25.80	2.73	2.73	5.00	24.00			0.20	0.013	10.14	3.23	66.01	66.00	66.18	66.18	70.94	70.94
MH-R-9	MH-R-9.1							73.03	100.00	48.00			0.20	0.013	64.41	5.13	60.65	60.45	66.18	65.92	70.94	72.14
MH-R-9.1	MH-R-9.2							73.02	16.00	48.00			0.19	0.013	62.37	4.96	60.45	60.42	65.92	65.88	72.14	71.76
INTERSECTION OF RIPTIDE DR AND SELA LN																						
IT83	IT84	0.25	0.506	0.12	3.94	22.81	0.49	1.11	22.00	24.00			0.18	0.013	9.67	3.08	66.18	66.14	70.96	70.96	69.90	69.90
IT84	MH-R-10	0.18	0.507	0.09	3.98	22.39	0.36	1.48	18.00	24.00			0.78	0.013	20.00	6.37	66.14	66.00	70.96	70.95	69.90	70.76
IT85	IT85.1	0.71	0.486	0.35	3.80	24.41	1.31	1.31	22.00	24.00			0.18	0.013	9.67	3.08	66.16	66.12	70.97	70.97	70.70	70.70
IT85.1	MH-R-10.1	0.25	0.495	0.12	3.94	22.83	0.49	1.80	6.00	24.00			0.17	0.013	9.26	2.95	66.12	66.11	70.97	70.97	70.70	70.70
MH-R-10.1	MH-R-10							2.98	60.50	24.00			0.18	0.013	9.67	3.08	66.11	66.00	70.97	70.95	70.70	70.76
ALONG SELA LN (STA 14+50 TO 19+00)*																						
IT86	IT87	2.30	0.477	1.10	3.63	26.58	3.98	3.98	22.00	24.00			0.18	0.013	9.67	3.08	66.66	66.62	71.07	71.06	70.56	70.56
IT87	MH-S-R-2	2.30	0.477	1.10	3.63	26.58	3.98	7.96	2.00	24.00			0.50	0.013	16.04	5.11	66.62	66.61	71.06	71.06	70.56	70.56
MH-S-R-2	MH-S-R-1							7.96	339.64	24.00			0.18	0.013	9.61	3.06	66.61	66.00	71.06	70.64	70.56	71.09
ALONG RIPTIDE DR (FROM WHITE CAP LN TO SELA LN)*																						
MH-R-2	MH-R-3							57.33	459.00	48.00			0.35	0.013	85.30	6.79	65.44	63.83	70.90	70.17	72.28	71.98
MH-R-3	MH-R-4							92.05	291.00	48.00			0.20	0.013	64.85	5.16	63.83	63.24	70.17	68.97	71.98	70.97
MH-R-4	MH-R-5							77.17	297.50	48.00			0.13	0.013	52.81	4.20	63.24	62.84	68.97	68.11	70.97	71.15
MH-R-5	MH-R-5.1							55.69	5.50	48.00			1.09	0.013	150.43	11.97	62.84	62.78	68.11	68.11	71.15	71.15
MH-R-5.1	MH-R-5.9							55.69	268.50	48.00			0.20	0.013	64.59	5.14	62.84	62.78	68.17	67.76		
MH-R-5.9	MH-R-6							55.77	91.00	48.00			0.05	0.013	33.76	2.69	62.20	62.15	67.72	67.58		
MH-R-6	MH-R-7							64.39	224.00	48.00			0.21	0.013	65.97	5.25	61.93	61.46	67.36	66.91		
MH-R-7	MH-R-8							66.77	38.00	48.00			0.42	0.013	93.46	7.44	61.38	61.22	66.83	66.75		
MH-R-9.2	MH-R-10							73.03	240.50	48.00			0.07	0.013	39.40	3.14	60.42	60.30	65.88	65.25		
MH-R-10	MH-S-R-1							76.93	110.00	48.00			0.07	0.013	38.84	3.09	59.98	59.98	64.93	64.62	70.56	71.88
MH-S-R-1	MH-R-11							94.68	158.00	42.00			0.10	0.013	32.10	3.34	59.98	59.72	64.62	63.22	71.09	71.88

NOTE:

DETENTION SUMMARY:
CUT VOLUME = 11.76 AC–FT
FILL VOLUME = 0.64 AC–FT
NET (CUT – FILL) VOLUME = 11.12 AC–FT
PROVIDED DETENTION VOLUME IN POND 1 & 2 = 47 AC–FT

* NO NET FILL IN FLOODPLAIN

2–YEAR FLOW IS CONVEYED WITHIN THE DRAINAGE SYSTEM.

* FLOW RESTRICTORS HAVE BEEN PLACED AT THE OUTFALL FOR EACH SYSTEM TO CONTROL THE OUTFLOWS AND AN INLINE DETENTION IS USED TO MITIGATE THE EXCESS FLOWS

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ENGINEER: RAHUL B MENON, P.E
P.E.Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

DRAINAGE CALCULATIONS (SHEET 2 OF 4)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 31 OF 369	

PLOTTED: 8/13/2026 4:38 PM
FILE PATH: P:\ACTIVE\18PW97 – 2024 Update\Ph II\Working\CAD\18PW97_Drainage Calculation.dwg

Conduit Calculation Results Based on Atlas 14 Harris County Flood Control District Region 3 Rainfall Data -25 Yr Event

INLET/MH From	INLET/MH To	Area (Acres)	Runoff Coefficient C	Sum of C*A	Intensity I (In/hr)	Time of Conc (Min)	Flow (CIA, cfs)	Sum of Flows (cfs)	Reach Length (ft)	Diam or Rise (in)	Width	No of Barrel	Slope (%)	Manning's "n"	Design Capacity (cfs)	Design Velocity (fps)	Flowline Elevation Upstream (ft)	Flowline Elevation Downstream (ft)	Elevation HG Upstream (ft)	Elevation HG Downstream (ft)	Elevation Upstream R.O.W. (ft)	Elevation Downstream R.O.W. (ft)
WHITECAP LN TO COOK RD																						
MH-WC-C-0.8	MH-WC-C-0.9							1.10	251.50	36.00	5.00		0.10	0.015	45.00	3.00	68.38	68.13	72.73	72.73	73.96	74.32
MH-WC-C-0.9	MH-WC-C-1							7.98	241.50	36.00	5.00		0.10	0.015	44.99	3.00	68.13	67.89	72.73	72.72	74.32	74.74
MH-WC-C-1	MH-WC-C-2							18.70	185.00	36.00	5.00	1.00	0.10	0.015	44.52	2.97	67.89	67.71	72.72	72.69	74.74	74.49
MH-WC-C-2	MH-C-2							32.76	30.00	36.00	5.00	1.00	0.13	0.015	52.12	3.47	67.71	67.67	72.69	72.67	74.49	74.29
POMPANO LN TO SEA SHORE DR*																						
MH-P-SS-0.5	MH-P-SS-1							0.93	305.00	36.00	5.00	2.00	0.10	0.015	90.27	6.02	66.46	66.15	72.42	72.42	74.00	73.71
IT8	MH-P-SS-1	1.81	0.47	0.85	6.53	26.10	5.55	5.55	5.00	24.00			0.20	0.013	10.14	3.23	68.01	68.00	72.42	72.42	73.94	73.71
IT9	MH-P-SS-1	1.96	0.47	0.92	6.50	26.26	5.99	5.99	5.00	24.00			0.20	0.013	10.14	3.23	68.01	68.00	72.42	72.42	73.71	73.71
MH-P-SS-1	MH-P-SS-2							10.15	517.00	36.00	5.00	2.00	0.10	0.015	90.53	6.04	66.15	65.63	72.42	72.39	73.82	73.71
IT10.1	MH-P-SS-2	0.63	0.475	0.30	6.78	24.22	2.03	2.03	5.00	24.00			0.20	0.013	10.14	3.23	66.01	66.00	72.39	72.39	73.82	73.82
IT11.1	MH-P-SS-2	1.19	0.475	0.57	6.63	25.31	3.75	3.75	5.00	24.00			0.20	0.013	10.14	3.23	66.01	66.00	72.39	72.39	73.82	73.82
MH-P-SS-2	MH-P-SS-3							20.21	65.00	36.00	5.00	2.00	0.11	0.015	93.67	6.24	65.63	65.56	72.39	72.38	73.82	73.54
MH-P-SS-3	MH-P-SS-4							20.19	56.00	24.00			0.20	0.013	10.05	3.20	65.56	65.45	72.38	71.93	73.82	73.54
IT10.2	MH-P-SS-4	0.63	0.475	0.30	6.78	24.22	2.03	2.03	15.00	24.00			0.20	0.013	10.14	3.23	68.47	68.44	71.93	71.93	73.93	73.65
IT11.2	MH-P-SS-4	1.19	0.475	0.57	6.63	25.31	3.75	3.75	8.00	24.00			0.25	0.013	11.34	3.61	68.47	68.45	71.93	71.93	73.65	73.65
MH-P-SS-4	MH-SS-C-2							20.22	242.50	24.00			0.21	0.013	10.50	3.34	65.45	64.93	71.93	70.00	73.67	73.65
SEA SHORE DR TO COOK RD*																						
MH-BC-4	MH-SS-C-5								25.00	36.00	4.00	2.00	0.04	0.015	43.02	3.59	68.29	68.28	70.35	70.35	73.31	73.31
IT25	MH-SS-C-5	1.51	0.52	0.79	6.57	25.76	5.16	5.16	5.00	24.00			0.20	0.013	10.14	3.23	68.29	68.28	70.35	70.35	73.31	73.31
IT26	MH-SS-C-5	1.48	0.58	0.86	6.58	25.71	5.64	5.64	5.00	24.00			0.20	0.013	10.14	3.23	68.48	68.47	70.35	70.35	73.31	72.92
MH-SS-C-5	MH-SS-C-1							4.96	598.00	36.00	4.00	2.00	0.10	0.015	68.14	5.68	66.12	65.52	70.35	70.33	73.41	73.31
IT12	MH-SS-C-1	1.58	0.53	0.84	6.56	25.84	5.49	5.49	5.00	24.00			0.20	0.013	10.14	3.23	66.01	66.00	70.34	70.33	73.41	73.41
IT13	MH-SS-C-1	1.49	0.46	0.69	6.57	25.73	4.51	4.51	5.00	24.00			0.20	0.013	10.14	3.23	66.01	66.00	70.34	70.33	73.76	73.41
MH-SS-C-1	MH-SS-C-2							7.64	297.00	24.00			0.20	0.013	10.11	3.22	65.52	64.93	70.33	70.00	74.67	73.41
MH-SS-C-2	MH-SS-C-3							20.52	19.50	24.00			0.21	0.013	10.27	3.27	64.93	64.89	70.00	69.83	74.67	74.67
MH-SS-C-3	MH-SS-C-4							20.53	104.50	24.00			0.20	0.013	10.17	3.24	64.89	64.68	69.83	68.97	74.67	74.30
MH-SS-C-4	MH-C-3							20.90	45.00	24.00			0.20	0.013	10.14	3.23	64.68	64.59	68.97	68.59	74.30	74.24
ALONG BEECH COVE (FROM BEECHNUT ST TO WHITE CAP LN)																						
MH-BC-0.7	MH-BC-0.8							0.21	256.50	36.00			0.10	0.013	20.88	2.95	65.69	65.44	70.56	70.56	74.45	74.31
MH-BC-0.8	MH-BC-0.9							0.65	256.50	36.00	5.00		0.10	0.015	44.56	2.97	65.44	65.19	70.56	70.56	74.31	73.84
MH-BC-0.9	MH-BC-1							0.95	62.00	36.00	5.00		0.08	0.015	40.53	2.70	65.19	65.14	70.56	70.56	73.84	73.67
IT21	MH-BC-1	2.15	0.49	1.05	6.48	26.44	6.83	6.83	12.00	24.00			0.17	0.013	9.26	2.95	68.15	68.13	70.57	70.56	73.76	73.67
IT23	IT22	2.29	0.49	1.12	6.47	26.57	7.26	7.26	24.00	24.00			0.21	0.013	10.35	3.30	68.23	68.18	70.65	70.62	73.48	73.41
IT22	MH-BC-1	1.11	0.50	0.56	6.64	25.19	3.69	10.94	27.00	24.00			0.19	0.013	9.76	3.11	68.18	68.13	70.62	70.56	73.67	73.48
MH-BC-1	MH-BC-2							24.97	114.50	48.00	6.00	2.00	0.09	0.015	159.12	6.63	65.14	65.04	70.56	70.55	74.36	73.67
MH-BC-2	MH-BC-2.1							24.97	94.00	48.00	2.00	4.00	0.11	0.015	79.12	9.89	64.49	64.39	70.55	70.39	73.59	73.59
ALONG BEECH COVE (SEA SHORE DR TO CORONA LN)																						
MH-BC-2.8	MH-BC-2.9							3.85	116.50	36.00	4.00	2.00	0.10	0.015	69.04	5.75	67.00	66.88	70.49	70.49	74.48	74.00
MH-BC-2.9	MH-BC-3							7.10	298.00	36.00	4.00	2.00	0.10	0.015	68.25	5.69	66.88	66.58	70.49	70.48	74.00	72.86
IT24	MH-BC-3	2.06	0.48	0.99	6.49	26.35	6.42	6.42	12.00	24.00			0.17	0.013	9.26	2.95	66.02	66.00	70.49	70.48	73.25	72.86
MH-BC-3	MH-BC-4							4.77	37.00	36.00	4.00	2.00	0.05	0.015	50.01	4.17	66.58	66.56	70.48	70.48	73.27	72.86
MH-BC-4	MH-BC-5							6.35	246.00	36.00	4.00	2.00	0.11	0.015	69.93	5.83	66.56	66.30	70.48	70.47	73.31	73.27
ALONG CORONA LN (BEECH COVE LN TO COOK RD)*																						
MH-BC-5	MH-C-C-1							6.32	465.50	24.00			0.01	0.013	2.35	0.75	66.06	66.01	70.47	70.10	73.27	73.56
IT27	IT28	2.15	0.48	1.02	6.48	26.44	6.62	6.62	22.00	24.00			0.23	0.013	10.81	3.44	66.06	66.01	70.17	70.15	73.56	73.54
IT28	MH-C-C-1	2.18	0.483	1.05	6.48	26.47	6.82	15.01	10.00	24.00			0.10	0.013	7.17	2.28	66.01	66.00	70.15	70.10	73.56	73.56
MH-C-C-1	MH-C-C-2							12.37	405.50	24.00			0.20	0.013	10.14	3.23	65.37	64.56	70.10	68.89	73.85	73.56
IT29.1	IT29	0.72	0.47	0.34	6.75	24.43	2.92	2.92	26.00	24.00			0.19	0.013	9.95	3.17	66.07	66.02	68.91	68.90	74.27	73.56
IT29	MH-C-C-2	1.12	0.67	0.75	6.64	25.20	4.99	7.91	10.00	24.00			0.20	0.013	10.14	3.23	66.02	66.00	68.90	68.89	74.27	74.27
MH-C-C-2	MH-C-C-3							12.60	43.00	24.00			0.21	0.013	10.38	3.30	64.56	64.47	68.89	68.76	74.27	74.27
MH-C-C-3	MH-C-C-4							14.11	139.00	24.00			0.20	0.013	10.18	3.24	64.47	64.19	68.76	68.22	74.59	74.35
MH-C-C-4	MH-C-4							14.10	14.84	24.00			0.20	0.013	10.20	3.25	64.19	64.16	68.22	68.16	74.59	74.54
ALONG LANGDON LN (AQUA LN TO SOUTH KIRKWOOD RD)*																						
IT40.5	IT40.4	1.03	0.468	0.48	6.66	25.05	3.21	3.21	23.50	24.00			127.83	0.013	256.46	81.63	67.37	37.33	71.05	71.05	73.03	73.03
IT40.4	MH-L-SK-1.1	1.03	0.468	0.48	6.66	25.05	3.21	6.42	26.00	24.00			0.19	0.013	9.95	3.17	67.33	67.28	71.05	71.03	73.03	73.03
MH-L-SK-1.1	MH-L-SK-1.2							6.42	135.00	24.00			0.05	0.013	5.17	1.64	67.02	66.95	71.03	70.92	73.03	73.82
IT39	IT40	0.47	0.498	0.23	6.85	23.76	1.60	1.60	22.00	24.00			0.18	0.013	9.67	3.08	67.00	66.96	70.92	70.92	73.84	73.73
IT40	MH-L-SK-1.2	0.58	0.503	0.29	6.80	24.09	1.98	3.59	5.00	24.00		1.00	0.20	0.013	10.14	3.23	66.96	66.95	70.92	70.92	73.84	73.84
MH-L-SK-1.2	MH-L-SK-1.3							10.01	123.00	24.00			0.36	0.013	13.57	4.32	66.95	66.51	70.92	70.68	73.82	73.82
IT40.1	MH-L-SK-1.3	0.58	0.485	0.28	6.80	24.09	1.91	1.91	25.00	24.00			0.20	0.013	10.14	3.23	64.56	64.51	70.68	70.68	73.22	72.97
IT40.2	MH-L-SK-1.3	0.58	0.485	0.28	6.80	24.09	1.91	1.91	21.00	24.00			0.19	0.013	9.90	3.15	64.55	64.51	70.68	70.68	73.29	72.97
MH-L-SK-1.3	MH-L-SK-1							13.83	24.00	24.00			0.17	0.013	9.26	2.95	64.51	64.47	70.68	70.59	72.97	72.97
MH-L-SK-1	MH-L-SK-2							13.83	118.50	24.00			0.20	0.013	10.08	3.21	64.47	64.24	70.59	70.14	72.97	73.74
IT39.1	MH-L-SK-2	0.47	0.498	0.23	6.85	23.76	1.60	1.60	5.00	24.00			0.20	0.013	10.14	3.23	68.03	68.02	70.14	70.14	73.74	73.74
IT40.3	MH-L-SK-2	0.58	0.485	0.28	6.80	24.09	1.91	1.91	15.00	24.00			0.13	0.013	8.28	2.64	68.21	68.19	70.14	70.14	73.96	73.74
MH-L-SK-2	MH-SK-4							17.35	38.00	24.00			0.21	0.013	10.41	3.31	66.00	65.92	70.14	69.92	73.74	73.14
ALONG SHARPCREST ST (AFTER STA 12+00 TO SOUTH KIRKWOOD RD)																						
IT44	MH-SC-SK-1	1.94	0.49	0.95	6.51	26.24	6.19	6.19	5.00	24.00			0.20	0.013	10.14	3.23	66.01	66.00	73.48	73.47	72.07	72.07
IT45	MH-SC-SK-1	2.07	0.48	0.99	6.49	26.36	6.45	6.45	15.00	24.00			0.20	0.013	10.14	3.23	66.03	66.00	73.49	73.47	72.25	72.07
MH-SC-SK-1	MH-SK-6							13.15	36.00	24.00			0.17	0.013	9.26	2.95	64.17	64.11	73.47	73.35	72.25	71.83
ALONG POMPANO LN (RIP TIDE DR TO SOUTH KIRKWOOD RD)																						
IT46	IT47	2.07	0.49	1.01	6.49	26.36	6.58	6.58	23.00	24.00			0.13	0.013	8.19	2.61	66.40	66.37	72.80	72.78	72.42	72.38
IT47	MH-P-SK-1	1.88	0.504	0.95	6.52	26.18	6.17	14.28	3.00	24.00			0.33	0.013	13.10	4.17	66.37	66.36	72.78	72.76	72.42	72.38
IT74	IT75	1.83	0.50	0.92	6.52	26.12	5.97	5.97	21.50	24.00			0.20	0.013	10.14	3.23	67.28	67.24	73.65	73.64	72.91	72.92
IT75	MH-P-R-1	1.77	0.509	0.90	6.53	26.06	5.88	11.63	5.00	24.00			0.80	0.013	20.29	6.46	67.24	67.20	73.64	73.62	72.92	72.92
MH-P-R-1	MH-P-SK-1.1							46.32	644.90	48.00	4.00	1.00	0.10	0.015	50.07	3.13	65.25	64.61	73.62	73.07	72.92	72.94
MH-P-SK-1.1	MH-P-SK-1							42.10	435.10	48.00	4.00	1.00	0.10	0.015	50.54	3.16	64.61	64.17	73.07	72.76	72.94	72.37
MH-P-SK-1	MH-SK-7							57.18	62.00	48.00	4.00	1.00	0.10	0.015	49.44	3.09	64.17	64.11	72.76	72.68	72.37	72.18
ALONG SEA SHORE DR (FROM STA 3+00 TO SOUTH KIRKWOOD RD)*																						
MH-SS-SK-3	MH-SS-SK-2							2.06	360.50	48.00	4.00		0.10	0.015	50.22	3.14	64.86	64.50	71.06	71.06	72.47	73.11
MH-SS-SK-2	MH-SS-SK-1							3.25	550.00	48.00	4.00		0.28	0.015	84.37	5.27	64.50	62.95	71.06	71.06	73.11	71.92
IT49	IT48	2.30	0.49	1.13	6.49	26.41	7.31	7.31	21.50	24.00			0.20	0.013	10.14	3.23	66.05	66.01	71.10	71.08	71.16	71.92
IT48	MH-SS-SK-1	2.11	0.49	1.03	6.46	26.58	6.68	13.99	6.00	24.00			0.20	0.013	10.14	3.23	66.01	66.00	71.08	71.06	71.92	71.92
MH-SS-SK-1	MH-SK-8							22.05	39.00	48.00	4.00	1.00	0.10	0.015	50.90	3.18	63.95	63.91	71.06	71.05	71.92	71.76
ALONG CORONA LN (SELA LN TO SOUTH KIRKWOOD RD)*																						
IT50	IT51	2.02	0.546	1.10	6.50	26.32	7.17	7.17	23.00	24.00			0.26	0.013	11.59	3.69	64.47	64.41	71.07	71.05	71.94	71.89
IT51	MH-C-SK-1	2.02	0.561	1.13	6.50	26.32	7.36	14.52	16.00	24.00			0.19	0.013	9.82	3.13	64.41	64.38	71.05	70.98	71.89	72.06
IT52	IT53	2.79	0.48	1.34	6.41	26.98	8.59	8.59	22.00	24.00			0.18	0.013	9.67	3.08	66.05	66.01	71.02	70.99	72.16	72.33
IT53	MH-C-SK-2	2.02	0.522	1.05	6.50	26.32	6.84	15.44	3.00	24.00			0.33	0.013	13.10	4.17	66.01	66.00	70.99	70.98	72.33	72.33
MH-C-SK-1	MH-C-SK-2							8.27	103.50	48.00	4.00	1.00	0.14	0.015	58.45	3.65	64.38	64.24	70.98	70.98	72.06	72.33
MH-C-SK-2	MH-C-SK-3							8.27	20.38	48.00	4.00		0.10	0.015	49.79	3.11	64.24	64.22	70.98	70.98	72.33	72.33
MH-C-SK-3	MH-SK-9							14.63	308.50	48.00	4.00	1.00	0.09	0.015	47.02	2.94	64.22	63.95	70.98	70.95	72.33	72.33

NOTE:

DETENTION SUMMARY:
CUT VOLUME = 11.76 AC–FT
FILL VOLUME = 0.64 AC–FT
NET (CUT – FILL) VOLUME = 11.12 AC–FT
PROVIDED DETENTION VOLUME IN POND 1 & 2 = 47 AC–FT

* NO NET FILL IN FLOODPLAIN

* FLOW RESTRICTORS HAVE BEEN PLACED AT THE OUTFALL FOR EACH SYSTEM TO CONTROL THE OUTFLOWS AND AN INLINE DETENTION IS USED TO MITIGATE THE EXCESS FLOWS

ISANI
civil \ design \ engineers
10448 Westoffice Drive
Houston, Texas 77042
P 713 747 2399
F 713 748 3748
TBPE Firm Reg. #4575

SURVEYED BY: Kuo&Associates
FB NO. P–6382

INTERIM REVIEW ONLY
DOCUMENT INCOMPLETE;
NOT INTENDED FOR PERMIT,
BIDDING OR CONSTRUCTION
ENGINEER: RAHUL B MENON, P.E
P.E Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

DRAINAGE CALCULATIONS
(SHEET 3 OF 4)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 32 OF 369	

PLOTTED: 8/13/2026 4:38 PM
FILE PATH: P:\ACTIVE\18PW97 – 2024 Update\Ph II\Working\CAD\18PW97_Drainage Calculation.dwg

Conduit Calculation Results Based on Atlas 14 Harris County Flood Control District Region 3 Rainfall Data -25 Yr Event

INLET/MH From	INLET/MH To	Area (Acres)	Runoff Coefficient C	Sum of C*A	Intensity I (In/hr)	Time of Conc (Min)	Flow (CIA, cfs)	Sum of Flows (cfs)	Reach Length (ft)	Diam or Rise (in)	WIDTH	No of Barrel	Slope (%)	Manning's "n"	Design Capacity (cfs)	Design Velocity (fps)	Flowline Elevation Upstream (ft)	Flowline Elevation Downstream (ft)	Elevation HG Upstream (ft)	Elevation HG Downstream (ft)	Elevation Upstream Gutter (ft)	Elevation Downstream Gutter (ft)
ALONG S KIRKWOOD RD (HENDON LN TO CORONA LN)*																						
MH-SK-5	MH-SK-6							74.95	272.00	48.00		2.00	0.10	0.013	90.76	7.22	62.15	61.88	71.86	71.12	72.41	71.83
MH-SK-6	MH-SK-7							83.97	272.00	48.00		2.00	0.10	0.013	89.06	7.09	61.88	61.62	71.12	70.19	71.83	72.18
MH-SK-7	MH-SK-8							111.41	283.50	48.00		2.00	0.10	0.013	88.90	7.07	61.62	61.35	70.19	68.49	72.18	71.76
MH-SK-8	MH-SK-9							100.27	275.50	60.00		2.00	0.10	0.013	163.50	8.33	61.35	61.08	68.49	68.08	71.76	72.33
TO POND 2																						
MH-SK-7	MH-SK-7.1							107.14	71.50	24.00	4.00		0.11	0.015	20.29	2.54	67.29	67.21	75.85	73.60	72.18	72.97
MH-SK-7.1	Pond 2 Inflow							184.91	28.00	48.00			0.25	0.013	72.01	5.73	62.87	62.80	69.26	68.80	72.97	72.97
ALONG WHITE CAP LN (BEECHNUT ST TO RIPTIDE DR)*																						
IT57	IT58	2.60	0.49	1.27	6.43	26.84	8.19	8.19	86.00	24.00			0.20	0.013	10.14	3.23	67.51	67.34	72.41	72.30	73.29	73.07
IT58	MH-W-R-1	1.22	0.490	0.60	6.62	25.36	3.96	12.15	15.00	24.00			0.20	0.013	10.14	3.23	67.35	67.32	72.30	72.26	73.07	73.52
IT59	MH-W-R-1	3.32	0.48	1.59	6.37	27.35	10.15	10.15	5.00	24.00			0.20	0.013	10.14	3.23	67.33	67.32	72.27	72.26	73.07	73.52
MH-W-R-1	MH-W-R-1.5							13.86	223.00	24.00			0.20	0.013	10.19	3.24	66.00	65.55	72.26	71.42	73.52	73.52
MH-W-R-1.5	MH-W-R-2							15.65	41.00	24.00			0.20	0.013	10.02	3.19	65.55	65.47	71.42	71.22	73.52	73.32
IT60	MH-W-R-2	0.79	0.49	0.39	6.73	24.59	2.60	2.60	5.00	24.00			0.20	0.013	10.14	3.23	66.81	66.80	71.22	71.22	73.32	73.32
IT61	MH-W-R-2	0.68	0.51	0.35	6.76	24.34	2.35	2.35	15.00	24.00			0.20	0.013	10.14	3.23	66.83	66.80	71.22	71.22	73.09	73.32
IT62	MH-R-2	1.77	0.48	0.85	6.53	26.06	5.55	5.55	35.00	24.00			0.20	0.013	10.14	3.23	66.92	66.85	71.15	71.13	73.32	73.01
MH-W-R-2	MH-R-2							15.50	20.00	24.00			0.20	0.013	10.14	3.23	65.47	65.43	71.22	71.13	73.84	73.01
LANDGON LN TO HENDON LN TO RIPTIDE DR*																						
IT63.1	MH-L-H-5	1.03	0.480	0.50	6.66	25.06	3.30	4.23	5.00	24.00			0.20	0.013	10.14	3.23	67.20	67.19	72.97	72.97	73.80	73.80
IT64.1	MH-L-H-5	1.03	0.468	0.48	6.66	25.05	3.21	6.21	16.00	24.00			0.19	0.013	9.82	3.13	67.22	67.19	72.98	72.97	74.12	73.80
MH-L-H-5	MH-L-H-4							8.59	61.00	24.00			0.21	0.013	10.47	3.33	67.19	67.06	72.97	72.88	73.80	73.61
MH-L-H-4	MH-L-H-3							8.52	147.00	24.00			0.19	0.013	9.90	3.15	67.06	66.78	72.88	72.67	73.61	73.70
MH-L-H-3	MH-L-H-2							8.46	55.00	24.00			0.20	0.013	10.14	3.23	66.78	66.67	72.67	72.59	73.70	73.35
MH-L-H-2	MH-L-H-1							8.39	137.50	24.00			0.20	0.013	10.05	3.20	66.67	66.40	72.59	72.40	73.35	72.71
IT63.2	MH-L-H-1	1.03	0.480	0.50	6.66	25.06	3.30	4.23	6.03	24.00			0.17	0.013	9.24	2.94	66.41	66.40	72.41	72.40	72.71	72.71
IT64.2	MH-L-H-1	1.03	0.468	0.48	6.66	25.05	3.21	3.21	13.80	24.00			0.22	0.013	10.58	3.37	66.43	66.40	72.40	72.40	72.86	72.71
MH-L-H-1	MH-H-R-2							24.37	39.50	24.00			0.18	0.013	9.55	3.04	66.40	66.33	72.40	71.94	72.71	73.25
IT65	MH-H-R-1	1.60	0.49	0.78	6.56	25.86	5.14	5.14	15.00	24.00			0.20	0.013	10.14	3.23	66.51	66.48	71.95	71.95	73.33	73.45
IT66	MH-H-R-1	1.03	0.480	0.50	6.66	25.06	3.30	4.23	5.00	24.00			0.20	0.013	10.14	3.23	66.49	66.48	71.95	71.95	73.45	73.45
MH-H-R-1	MH-H-R-2							7.45	71.00	48.00			0.20	0.013	63.96	5.09	65.48	65.34	71.95	71.94	73.45	73.25
IT67	MH-H-R-3	0.49	0.52	0.25	6.84	23.81	1.74	1.74	15.00	24.00			0.20	0.013	10.14	3.23	66.03	66.00	71.46	71.45	72.98	73.59
IT68	MH-H-R-3	0.96	0.50	0.48	6.68	24.94	3.21	3.21	5.00	24.00			0.20	0.013	10.14	3.23	66.01	66.00	71.46	71.45	73.59	73.59
MH-H-R-2	MH-H-R-3							29.93	243.00	36.00			0.20	0.013	29.72	4.21	65.34	64.86	71.94	71.45	73.25	73.59
MH-H-R-3	MH-R-3							33.63	18.50	36.00			0.16	0.013	26.93	3.81	64.86	64.83	71.45	71.41	73.59	73.16
SHARPCREST ST TO RIPTIDE DR*																						
IT69	MH-SC-R-1	0.71	0.570	0.40	6.75	24.41	2.73	9.77	15.00	24.00			0.20	0.013	10.14	3.23	66.03	66.00	69.75	69.73	73.02	72.75
IT70	MH-SC-R-1	0.67	0.45	0.30	6.76	24.32	2.04	2.04	5.00	24.00			0.20	0.013	10.14	3.23	66.01	66.00	69.73	69.73	72.75	72.75
IT71	MH-SC-R-2	1.80	0.50	0.90	6.53	26.09	5.87	5.87	5.00	24.00			0.20	0.013	10.14	3.23	66.01	66.00	69.34	69.33	73.06	73.06
IT72	MH-SC-R-2	1.93	0.49	0.95	6.51	26.23	6.16	6.16	15.00	24.00			0.20	0.013	10.14	3.23	66.03	66.00	69.34	69.33	72.71	73.06
MH-SC-R-1	MH-R-4							32.47	67.00	30.00			0.40	0.013	26.11	5.32	63.51	63.24	69.73	69.31	72.75	72.45
MH-SC-R-2	MH-R-4							14.54	21.50	30.00			1.26	0.013	46.09	9.39	63.51	63.24	69.33	69.31	73.06	72.45
INTERSECTION OF RIPTIDE DR AND POMPANO LN																						
IT73	MH-R-5	1.03	0.49	0.50	6.66	25.06	3.36	3.36	35.00	24.00			0.06	0.013	5.42	1.73	67.19	67.17	72.98	72.97	73.45	72.04
INTERSECTION OF RIPTIDE DR AND SEA SHORE DR*																						
IT76	IT76.1	1.63	0.49	0.80	6.55	25.90	5.23	5.23	26.00	24.00			0.19	0.013	9.95	3.17	66.05	66.00	68.01	68.00	73.08	73.08
IT76.1	MH-R-6	1.36	0.50	0.68	6.60	25.56	4.49	9.73	15.00	24.00			0.20	0.013	10.14	3.23	66.00	65.97	68.00	67.97	73.08	71.58
IT77	IT78	1.15	0.50	0.58	6.64	25.24	3.82	3.82	22.00	24.00			0.18	0.013	9.67	3.08	65.97	65.93	71.92	71.91	72.00	71.65
IT78	MH-R-6	1.36	0.501	0.68	6.60	25.56	4.49	8.31	9.00	24.00			0.22	0.013	10.69	3.40	65.93	65.91	71.91	71.90	71.65	71.58
INTERSECTION OF RIPTIDE DR CORONA LN																						
IT79	IT80	0.54	0.50	0.27	6.81	23.99	1.84	1.84	22.00	24.00			0.18	0.013	9.67	3.08	66.84	66.80	72.92	72.92	72.57	71.83
IT80	MH-R-7	0.51	0.501	0.26	6.83	23.88	1.74	3.58	9.00	24.00			0.22	0.013	10.69	3.40	66.80	66.78	72.92	72.92	71.83	71.83
ALONG CORONA LN (FROM STA 1+00 TO 4+00)																						
MH-R-8	MH-R-9							56.29	30.50	48.00			0.20	0.013	63.88	5.08	60.71	60.65	66.95	66.90	72.16	72.33
IT81	MH-R-9	0.55	0.52	0.29	6.56	25.80	1.88	1.88	15.00	24.00			0.20	0.013	10.14	3.23	66.03	66.00	66.90	66.90	72.41	72.33
IT82	MH-R-9	1.55	0.478	0.24	6.56	25.80	4.86	4.86	5.00	24.00			0.20	0.013	10.14	3.23	66.01	66.00	66.90	66.90	72.33	72.33
MH-R-9	MH-R-9.1							59.03	100.00	48.00			0.20	0.013	64.41	5.13	60.65	60.45	66.90	66.73	72.33	72.16
MH-R-9.1	MH-R-9.2							59.00	16.00	48.00			0.19	0.013	62.37	4.96	60.45	60.42	66.73	66.70	72.16	72.16
INTERSECTION OF RIPTIDE DR AND SELA LN																						
IT83	IT84	0.25	0.506	0.12	6.99	22.81	0.87	1.11	22.00	24.00			0.18	0.013	9.67	3.08	66.18	66.14	72.00	72.00	72.55	72.41
IT84	MH-R-10	0.18	0.507	0.09	7.05	22.39	0.64	1.76	18.00	24.00			0.78	0.013	20.00	6.37	66.14	66.00	72.00	72.00	72.41	72.26
IT85	IT85.1	0.71	0.486	0.35	6.75	24.41	2.33	2.33	22.00	24.00			0.18	0.013	9.67	3.08	66.16	66.12	72.09	72.08	72.31	72.66
IT85.1	MH-R-10.1	0.25	0.495	0.12	6.98	22.83	0.86	3.19	6.00	24.00			0.17	0.013	9.26	2.95	66.12	66.11	72.08	72.08	72.66	72.66
MH-R-10.1	MH-R-10							8.41	60.50	24.00			0.18	0.013	9.67	3.08	66.11	66.00	72.08	72.00	72.66	72.26
ALONG SELA LN (STA 14+50 TO 19+00)*																						
IT86	IT87	2.30	0.477	1.10	6.46	26.58	7.08	7.08	22.00	24.00			0.18	0.013	9.67	3.08	66.66	66.62	73.34	73.32	72.86	73.01
IT87	MH-S-R-2	2.30	0.477	1.10	6.46	26.58	7.08	14.17	2.00	24.00			0.50	0.013	16.04	5.11	66.62	66.61	73.32	73.31	73.01	73.01
MH-S-R-2	MH-S-R-1							14.17	339.64	24.00			0.18	0.013	9.61	3.06	66.61	66.00	73.31	71.98	73.01	72.60
ALONG RIPTIDE DR (FROM WHITE CAP LN TO SELA LN)*																						
MH-R-2	MH-R-3							57.33	459.00	48.00			0.35	0.013	85.30	6.79	65.44	63.83	71.14	70.41	73.01	73.16
MH-R-3	MH-R-4							88.36	291.00	48.00			0.20	0.013	64.85	5.16	63.83	63.24	70.41	69.31	73.16	72.45
MH-R-4	MH-R-5							67.92	297.50	48.00			0.13	0.013	52.81	4.20	63.24	62.84	69.31	68.64	72.45	72.04
MH-R-5	MH-R-5.1							48.39	5.50	48.00			1.09	0.013	150.43	11.97	62.84	62.78	68.64	68.63	72.04	72.15
MH-R-5.1	MH-R-5.9							48.39	268.50	48.00			0.20	0.013	64.59	5.14	62.84	62.78	68.63	68.33	72.15	71.66
MH-R-5.9	MH-R-6							57.94	91.00	48.00			0.05	0.013	33.76	2.69	62.20	62.15	68.29	68.14	71.66	71.74
MH-R-6	MH-R-7							54.82	224.00	48.00			0.21	0.013	65.97	5.25	61.93	61.46	67.92	67.60	71.74	71.08
MH-R-7	MH-R-8							56.33	38.00	48.00			0.42	0.013	93.46	7.44	61.38	61.22	67.52	67.46	71.08	72.16
MH-R-9.2	MH-R-10							58.94	240.50	48.00			0.07	0.013	39.40	3.14	60.42	60.30	66.70	66.30	72.16	71.26
MH-R-10	MH-S-R-1							60.94	110.00	48.00			0.07	0.013	38.84	3.09	60.16	59.98	66.16	65.96	71.26	72.60
MH-S-R-1	MH-R-11							68.93	158.00	42.00			0.10	0.013	32.10	3.34	59.98	59.72	65.96	65.22	72.60	72.47

NOTE:

DETENTION SUMMARY:
CUT VOLUME = 11.76 AC-FT
FILL VOLUME = 0.64 AC-FT
NET (CUT - FILL) VOLUME = 11.12 AC-FT
PROVIDED DETENTION VOLUME IN POND 1 & 2 = 47 AC-FT

* NO NET FILL IN FLOODPLAIN

* FLOW RESTRICTORS HAVE BEEN PLACED AT THE OUTFALL FOR EACH SYSTEM TO CONTROL THE OUTFLOWS AND AN INLINE DETENTION IS USED TO MITIGATE THE EXCESS FLOWS

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P.E.Reg No: 130533
DATE: AUGUST 2026

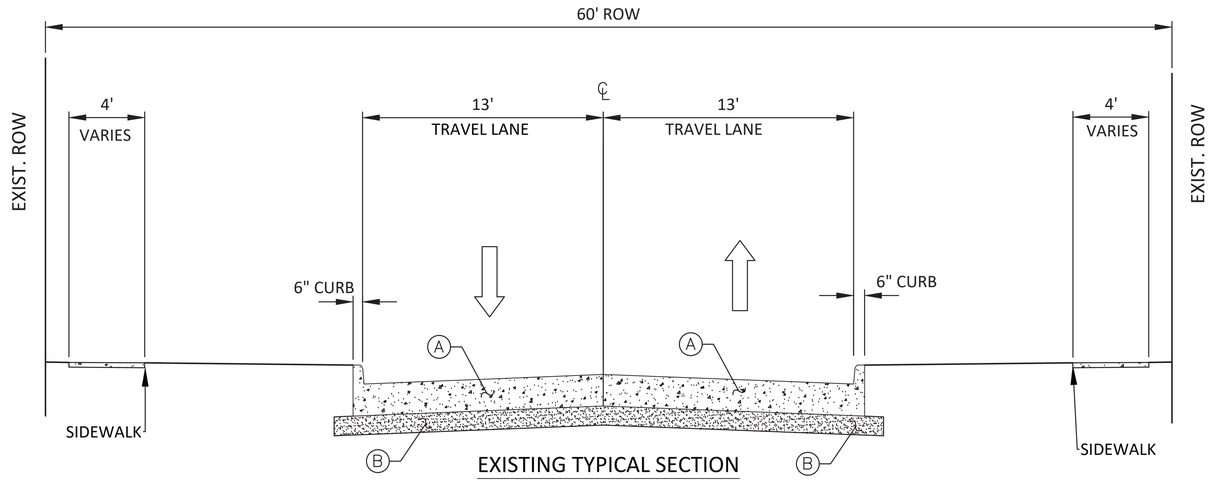
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ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

DRAINAGE CALCULATIONS (SHEET 4 OF 4)

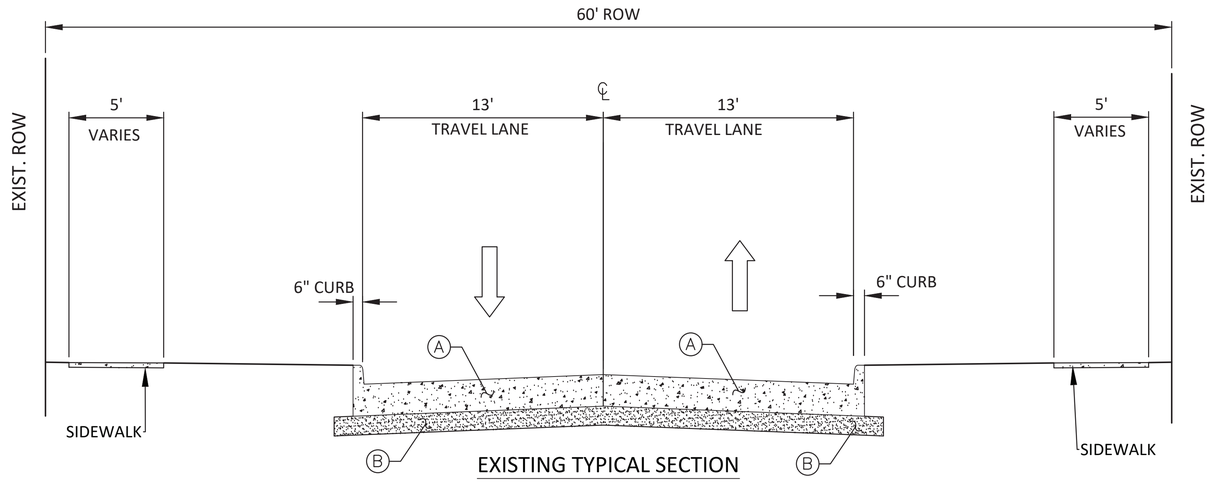
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SHEET NO. 33 OF 369	

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EXISTING TYPICAL SECTION

CONCRETE CURB & GUTTER SECTION
LOCAL STREETS



EXISTING TYPICAL SECTION

CONCRETE CURB & GUTTER SECTION
LOCAL STREETS

KEY NOTES:

(A) EXIST. CONCRETE PAVEMENT

(B) EXIST. LIME SUBGRADE

NOTES:
SEE PLAN AND PROFILE SHEETS FOR EXIST R.O.W. LIMITS AND DISTANCE FROM CENTERLINE

REPAIRED AND RESTORED PAVEMENT SECTION SHOULD MATCH THE EXISTING TYPICAL SECTION

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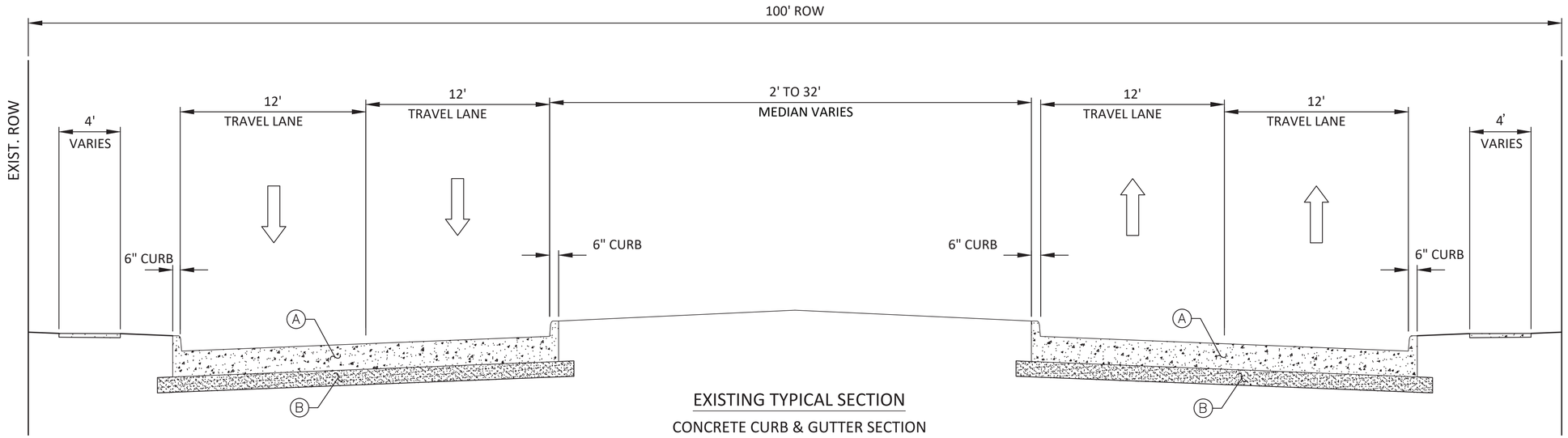
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TYPICAL SECTIONS
(SHEET 1 OF 3)

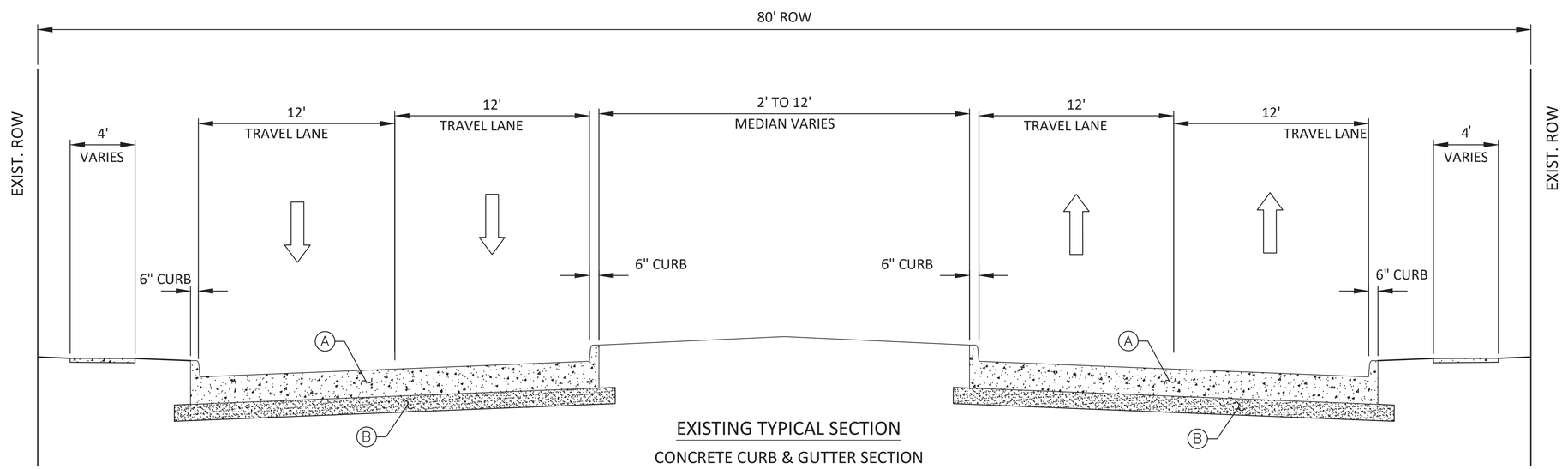
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EXISTING TYPICAL SECTION

CONCRETE CURB & GUTTER SECTION
S KIRKWOOD ROAD



EXISTING TYPICAL SECTION

CONCRETE CURB & GUTTER SECTION
COOK ROAD

KEY NOTES:

(A) EXIST. CONCRETE PAVEMENT

(B) EXIST. LIME SUBGRADE

NOTES:
SEE PLAN AND PROFILE SHEETS FOR EXIST R.O.W. LIMITS AND DISTANCE FROM CENTERLINE

REPAIRED AND RESTORED PAVEMENT SECTION SHOULD MATCH THE EXISTING TYPICAL SECTION

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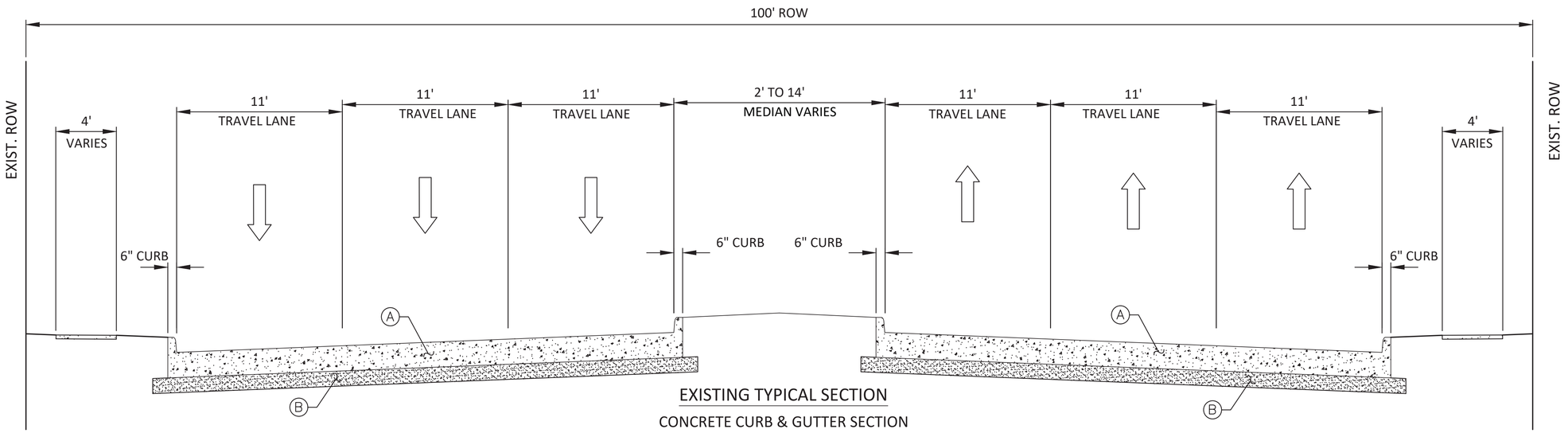
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ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

TYPICAL SECTIONS
(SHEET 2 OF 3)

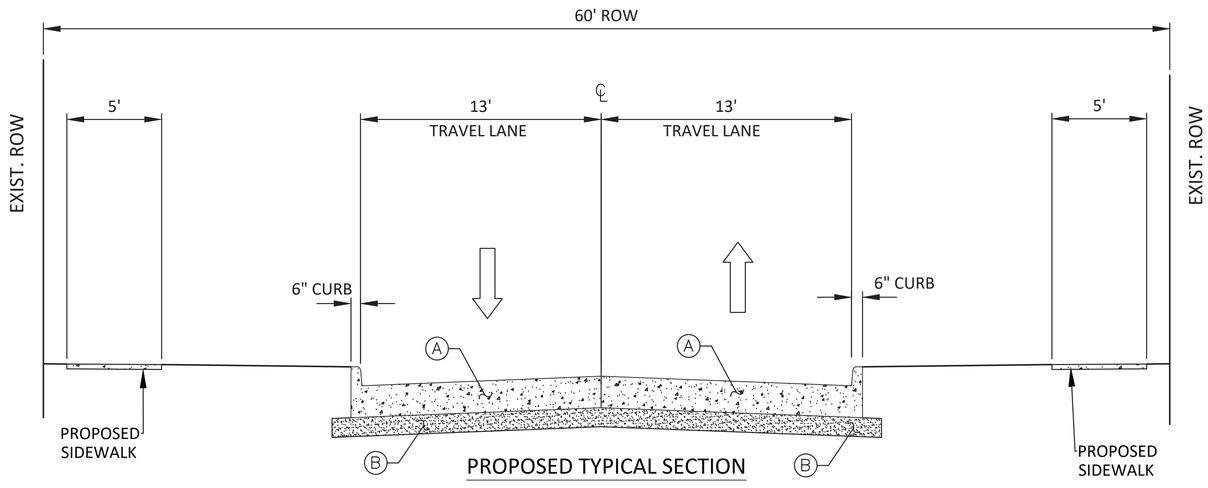
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EXISTING TYPICAL SECTION

CONCRETE CURB & GUTTER SECTION
BEEHCNUT STREET



PROPOSED TYPICAL SECTION

CONCRETE CURB & GUTTER SECTION
LOCAL STREETS

KEY NOTES:

(A) EXIST. CONCRETE PAVEMENT

(B) EXIST. LIME SUBGRADE

NOTES:
SEE PLAN AND PROFILE SHEETS FOR EXIST R.O.W. LIMITS AND DISTANCE FROM CENTERLINE

REPAIRED AND RESTORED PAVEMENT SECTION SHOULD MATCH THE EXISTING TYPICAL SECTION

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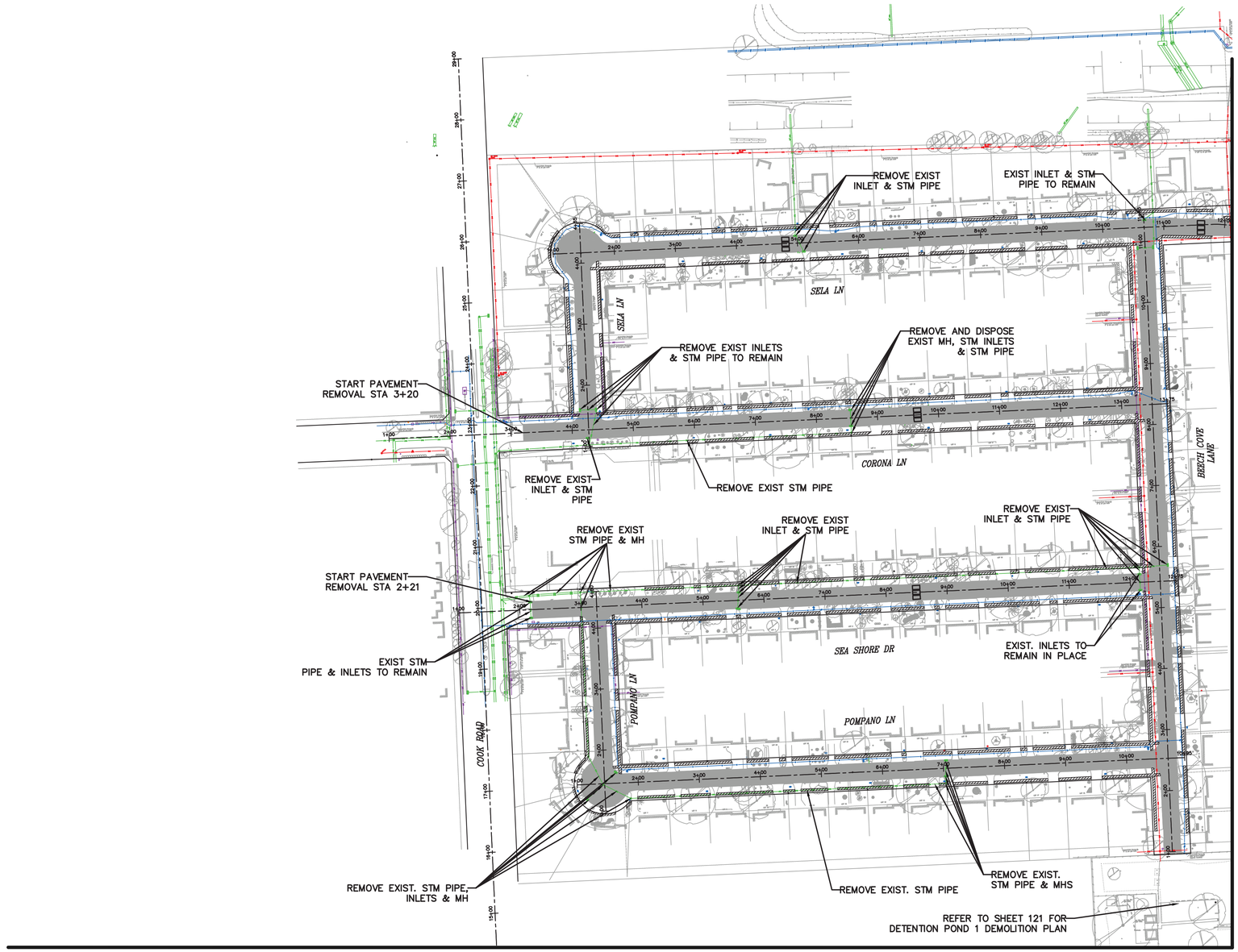
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TYPICAL SECTIONS
(SHEET 3 OF 3)

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SHEET NO. 36 OF 369	

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MATCH LINE
SHEET 3 OF 4

MATCH LINE
SHEET 2 OF 4

N

100 0 50 100 200

SCALE: 1" = 100'-0" FEET FOR 22"X34" SHEET

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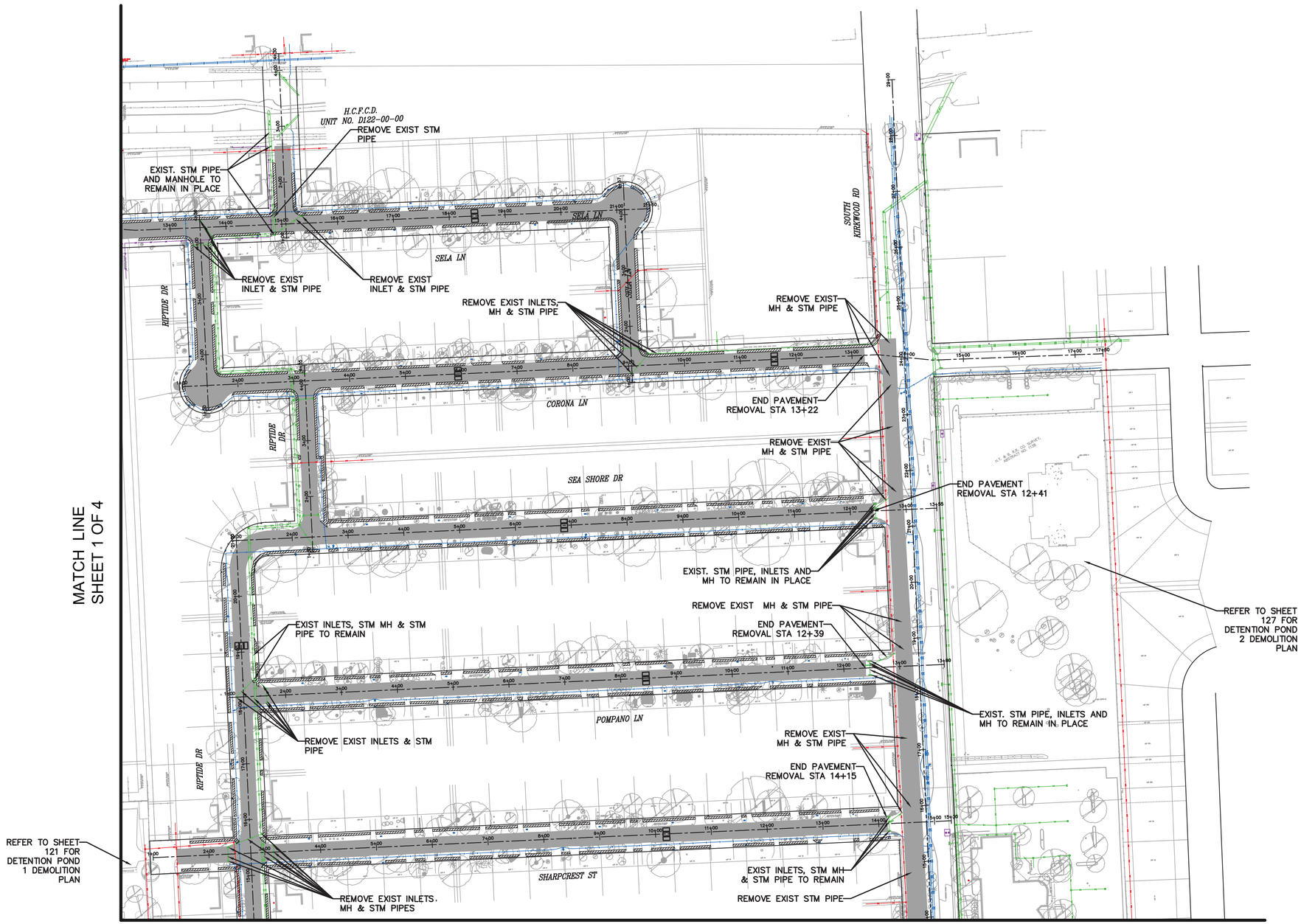
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DEMOLITION PLAN LAYOUT
(SHEET 1 OF 4)

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DRAWING SCALE	
1" = 100'	
CITY OF HOUSTON PM	
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SHEET NO. 37 OF 369	

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N

100 0 50 100 200

SCALE: 1" = 100'-0" FEET FOR 22"X34" SHEET

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ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

DEMOLITION PLAN LAYOUT
(SHEET 2 OF 4)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1" = 100'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 38 OF 369	

PLOTTED: 8/13/2026 4:39 PM

FILE PATH: P:\ACTIVE\18Pv97 - 2024 Update\Ph II\Working\CAD\18Pv97_Demolition Plans.dwg

PLOTTED: 8/13/2026 4:38 PM

FILE PATH: P:\ACTIVE\18Pv97 - 2024 Update\Ph II\Working\CAD\18Pv97_Demolition Plans.dwg

N

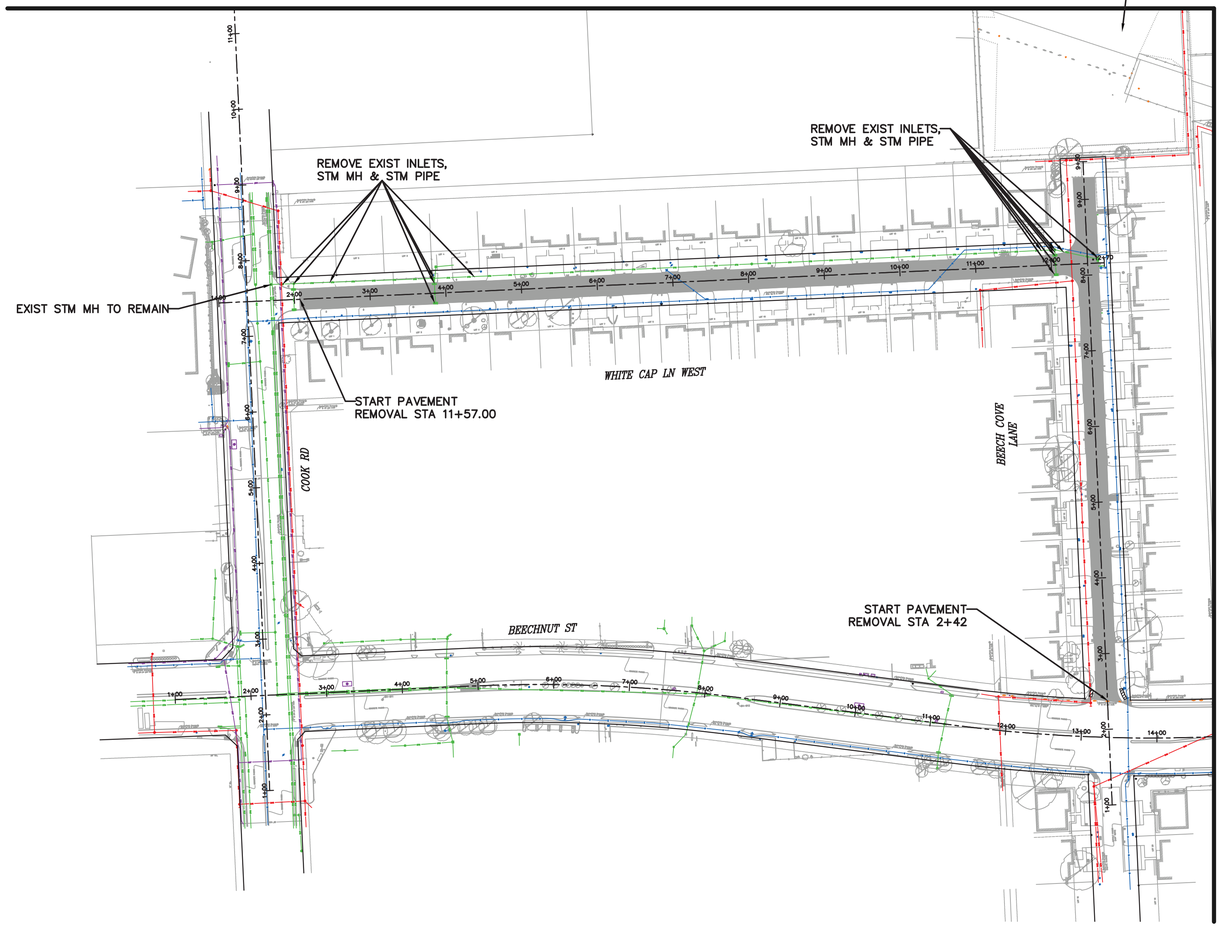
100 0 50 100 200

SCALE: 1" = 100'-0" FEET FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.

MATCH LINE
SHEET 1 OF 4

REFER TO SHEET 121 FOR DETENTION POND 1 DEMOLITION PLAN



MATCH LINE
SHEET 4 OF 4

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Houston, Texas 77042
P 713 747 2399
F 713 748 3748
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BIDDING OR CONSTRUCTION
ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P-6382

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

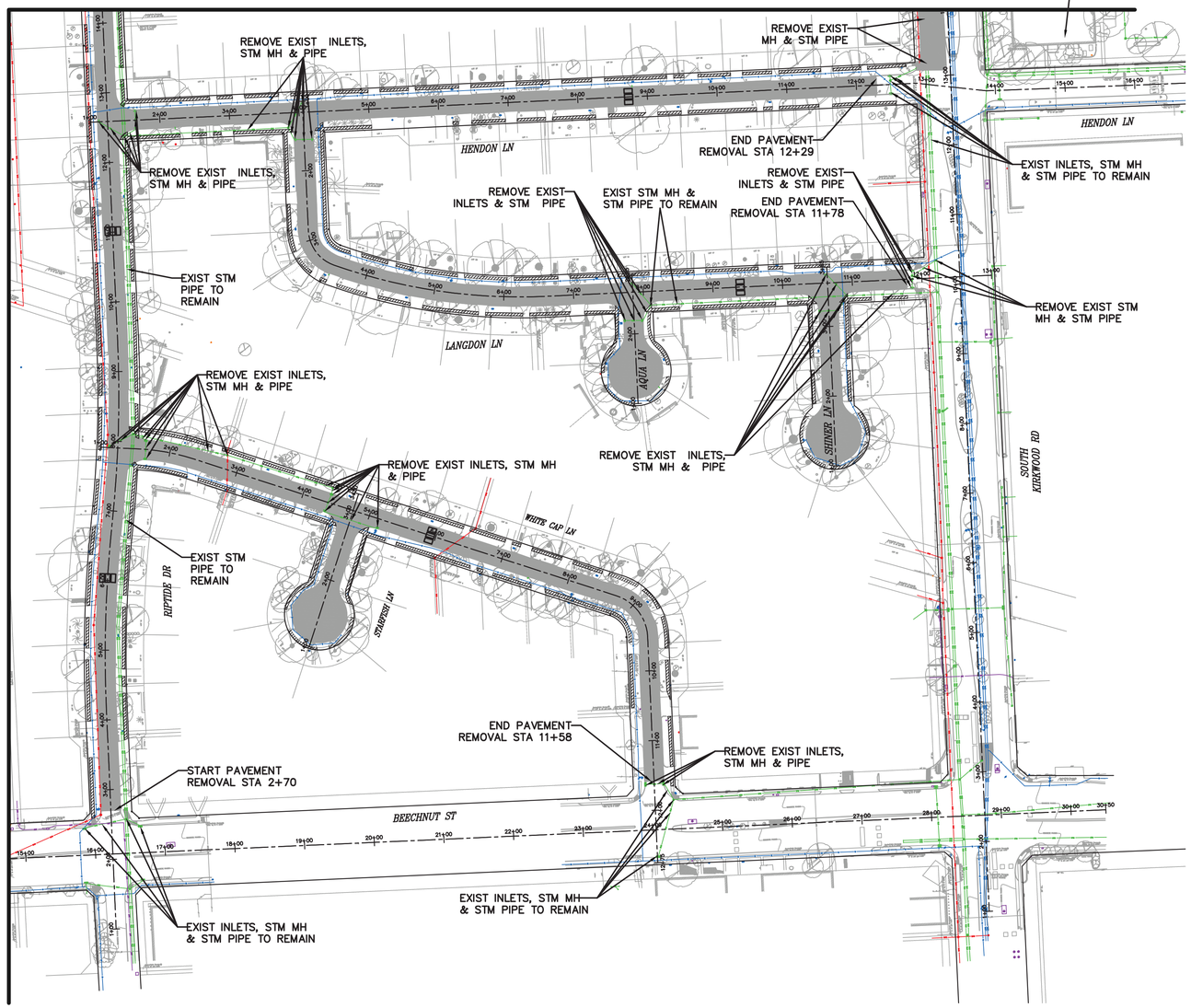
DEMOLITION PLAN LAYOUT
(SHEET 3 OF 4)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1" = 100'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 39 OF 369	

PLOTTED: 8/13/2026 4:39 PM

MATCH LINE
SHEET 3 OF 4

MATCH LINE
SHEET 2 OF 4



N

100 0 50 100 200

SCALE: 1" = 100'-0" FEET FOR 22"X34" SHEET

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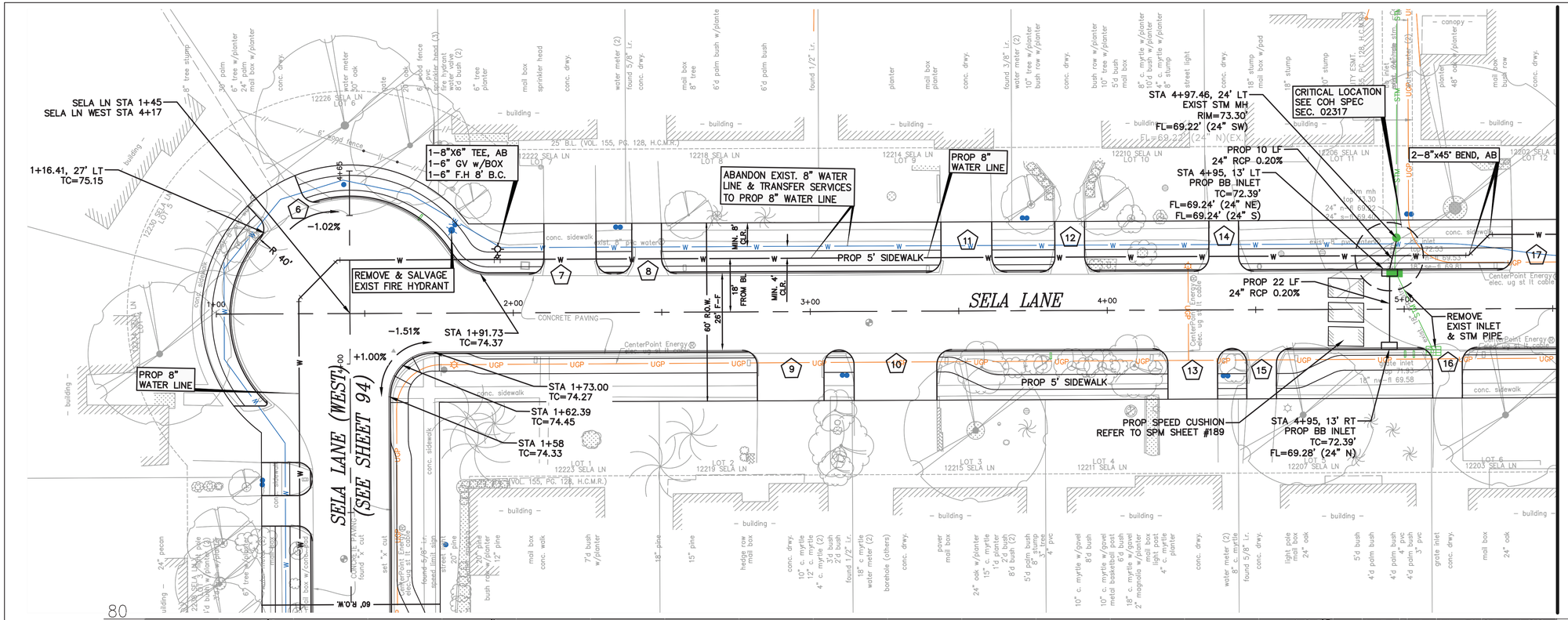
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DEMOLITION PLAN LAYOUT (SHEET 4 OF 4)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1" = 100'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 40 OF 369	

FILE PATH: P:\ACTIVE\18PV97 - 2024 Update\Ph II\Working\CAD\18PV97_Demolition Plans.dwg



MATCH LINE STA 5+50
SEE SHEET 42

N

20 0 10 20 40

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
1" = 2'-0" FEET V FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.

BENCHMARK:

CITY OF HOUSTON MONUMENT 4854–8109, A BRASS DISK IN CONCRETE, LOCATED AT SOUTHWEST CORNER OF THE INTERSECTION OF SHARPCREST LN AND RIPTIDE RD.

ELEV. 72.01 FEET NAVD 1988 (GEOID '18)*

* OBSERVED BY GPS SURVEYING AND PROCESSED IN REFERENCE TO THE CORS DATED DECEMBER 11, 2019.

VERTICAL DATUM ADJUSTMENT:

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VERIFICATION OF PRIVATE UTILITY LINES

Date

CenterPoint Energy natural gas utilities shown. (Gas service lines are not shown). This signature not be used for conflict verification.

Signature valid for six months.

Date

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P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P–6382

CITY OF HOUSTON
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ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

SELA LANE
PLAN & PROFILE
STA 1+00 TO 5+50

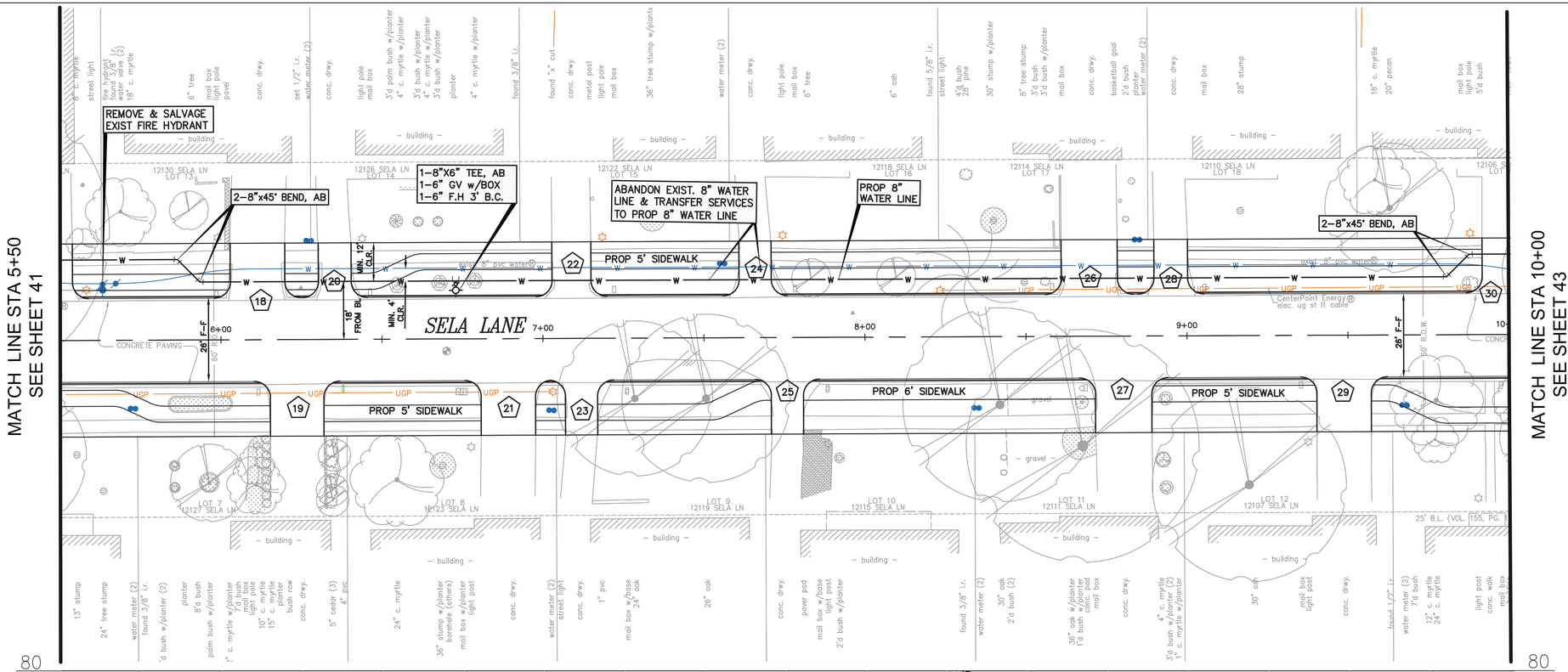
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N–210015–0001–3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 41 OF 369	

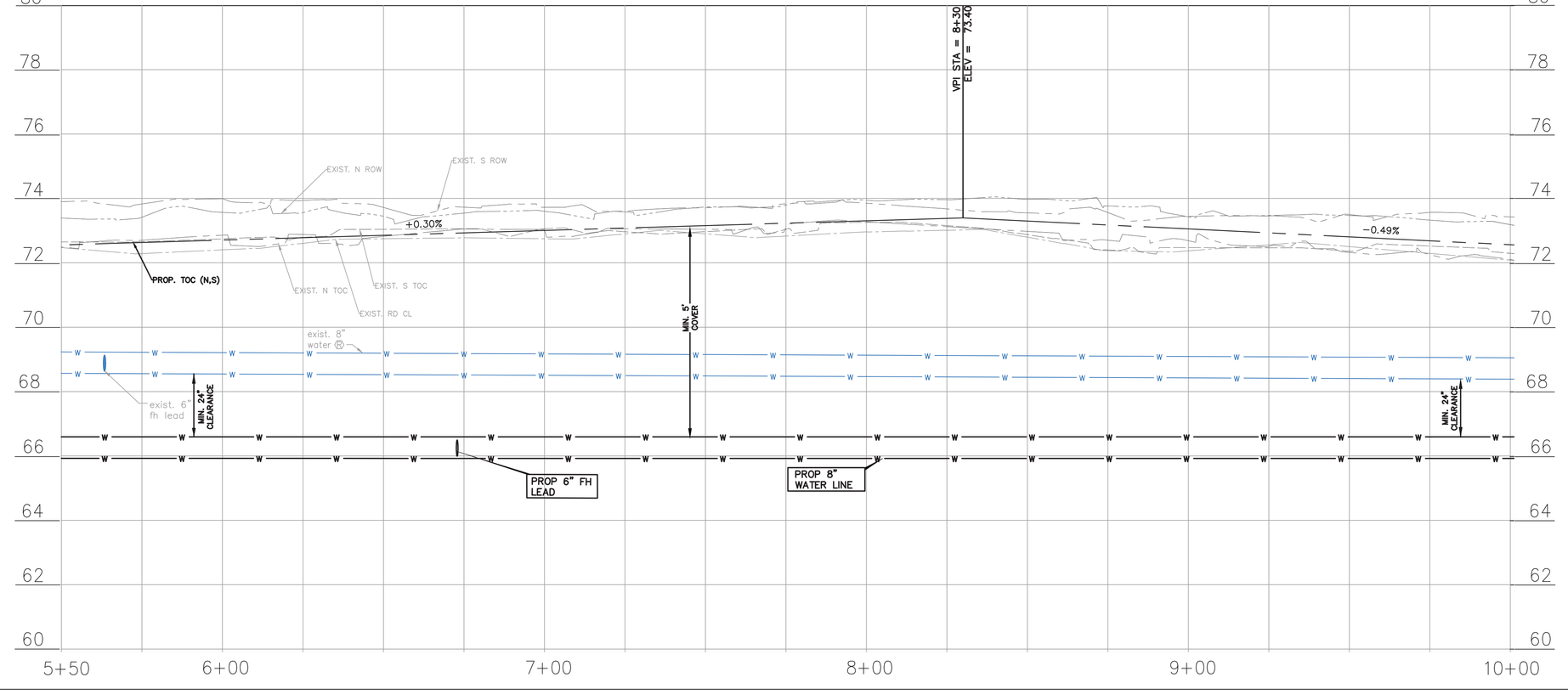
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PLOTTED: 8/13/2026 11:18 PM

MATCH LINE STA 5+50
SEE SHEET 41

MATCH LINE STA 10+00
SEE SHEET 43





FILE PATH: P:\ACTIVE\18PW97 – 2024 Update\Ph II\Working\CAD\PP Cutsheet 1.dwg

NO.	DATE	REVISION	APP.

N

20 0 10 20 40

SCALE: 1" = 20'–0" FEET H FOR 22"X34" SHEET
1" = 2'–0" FEET V FOR 22"X34" SHEET

BENCHMARK:

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DATE: AUGUST 2026

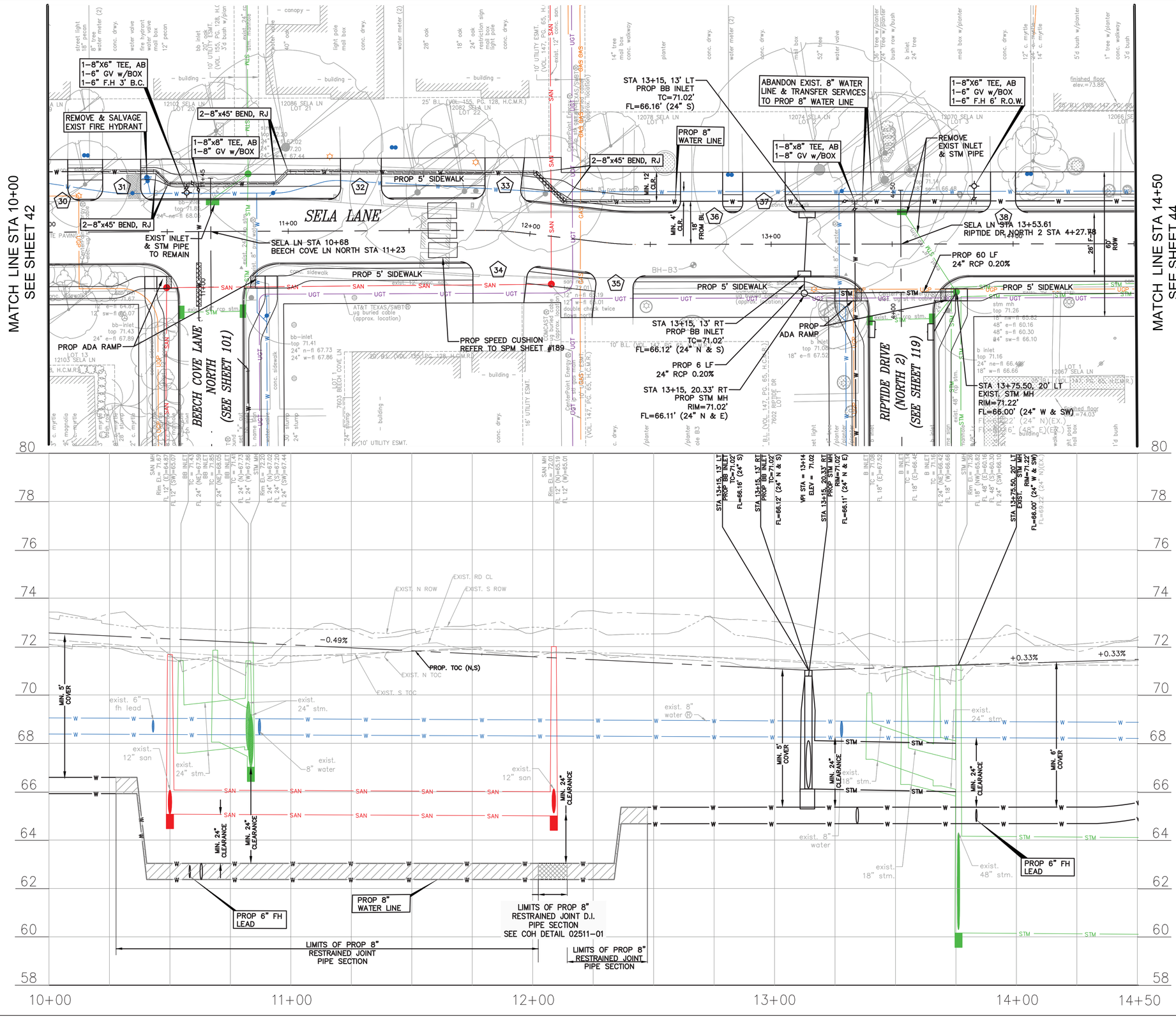
SURVEYED BY: Kuo&Associates
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

SELA LANE
PLAN & PROFILE
STA 5+50 TO 10+00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 42 OF 369	



N

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
1" = 2'-0" FEET V FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.

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FB NO. P-6382

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

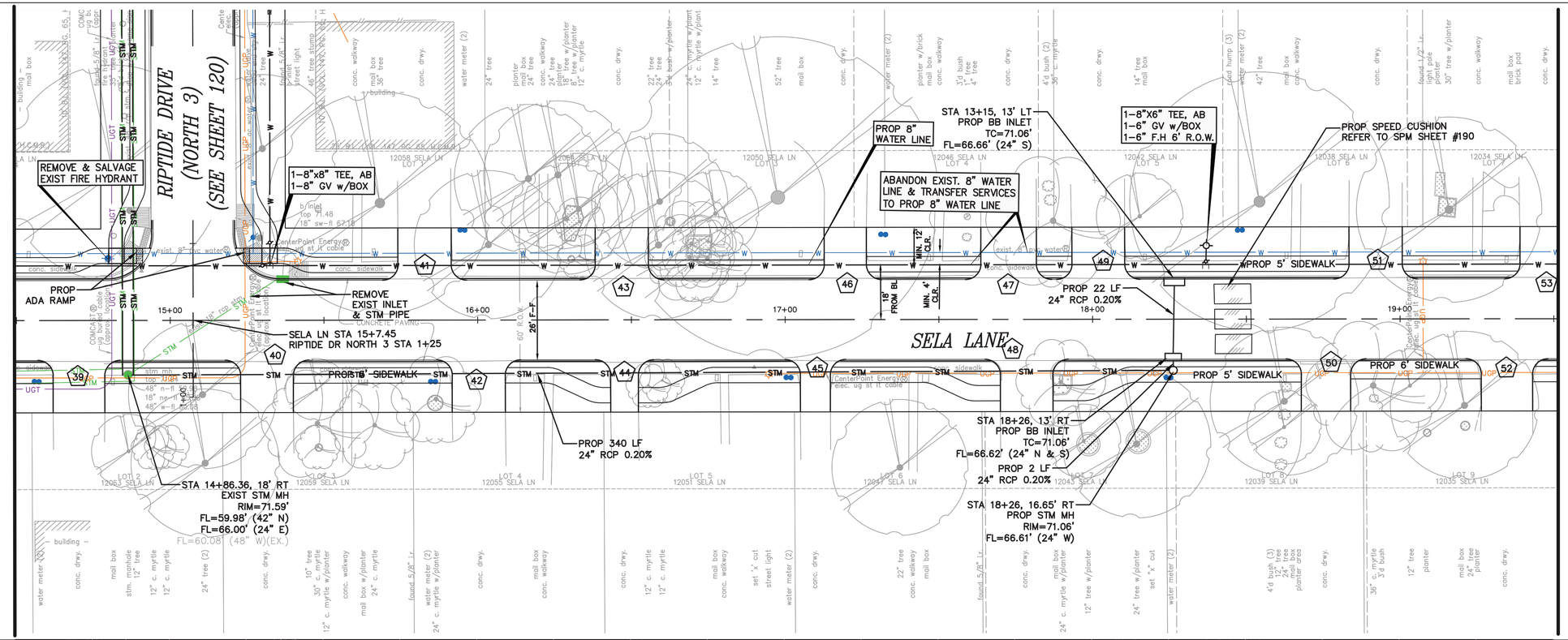
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

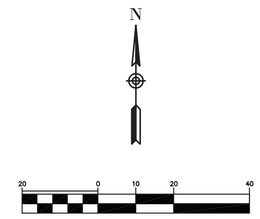
SELA LANE
STA 10+00 TO 14+50

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 43 OF 369	

PLOTTED: 8/13/2026 11:27 PM

FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\PP Cutsheet 1.dwg





NO.	DATE	REVISION	APP.

BENCHMARK:

CITY OF HOUSTON MONUMENT 4854-8109, A BRASS DISK IN CONCRETE, LOCATED AT SOUTHWEST CORNER OF THE INTERSECTION OF SHARPCREST LN AND RIPTIDE RD.

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P-6382

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HOUSTON PUBLIC WORKS

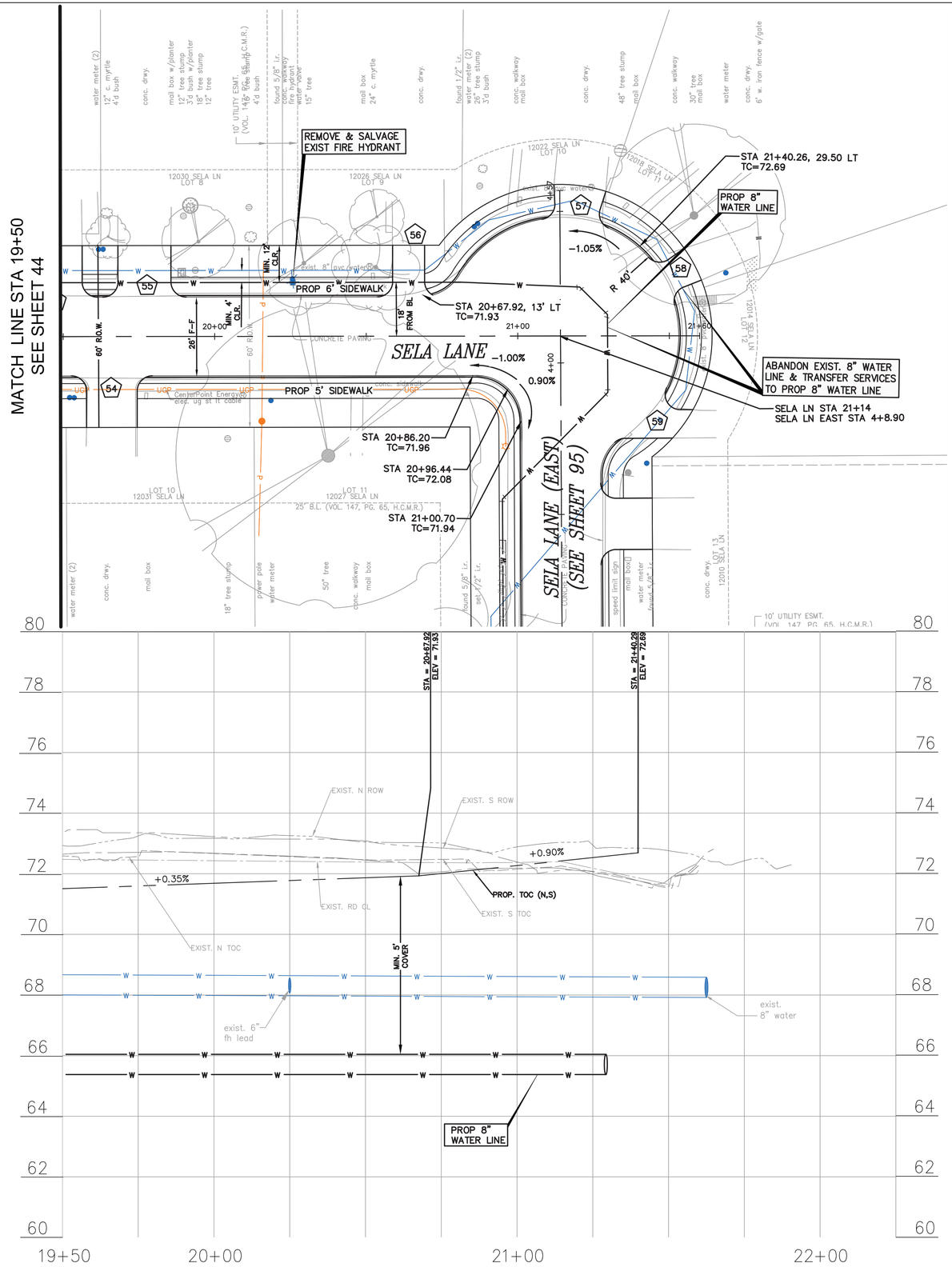
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

SELA LANE
PLAN & PROFILE
STA 14+50 TO 19+50

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 44 OF 369	

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PLOTTED: 8/13/2026 11:45 PM



N

20 0 10 20 40

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
1" = 2'-0" FEET V FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.

BENCHMARK:

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ENGINEER: RAHUL B MENON, P.E
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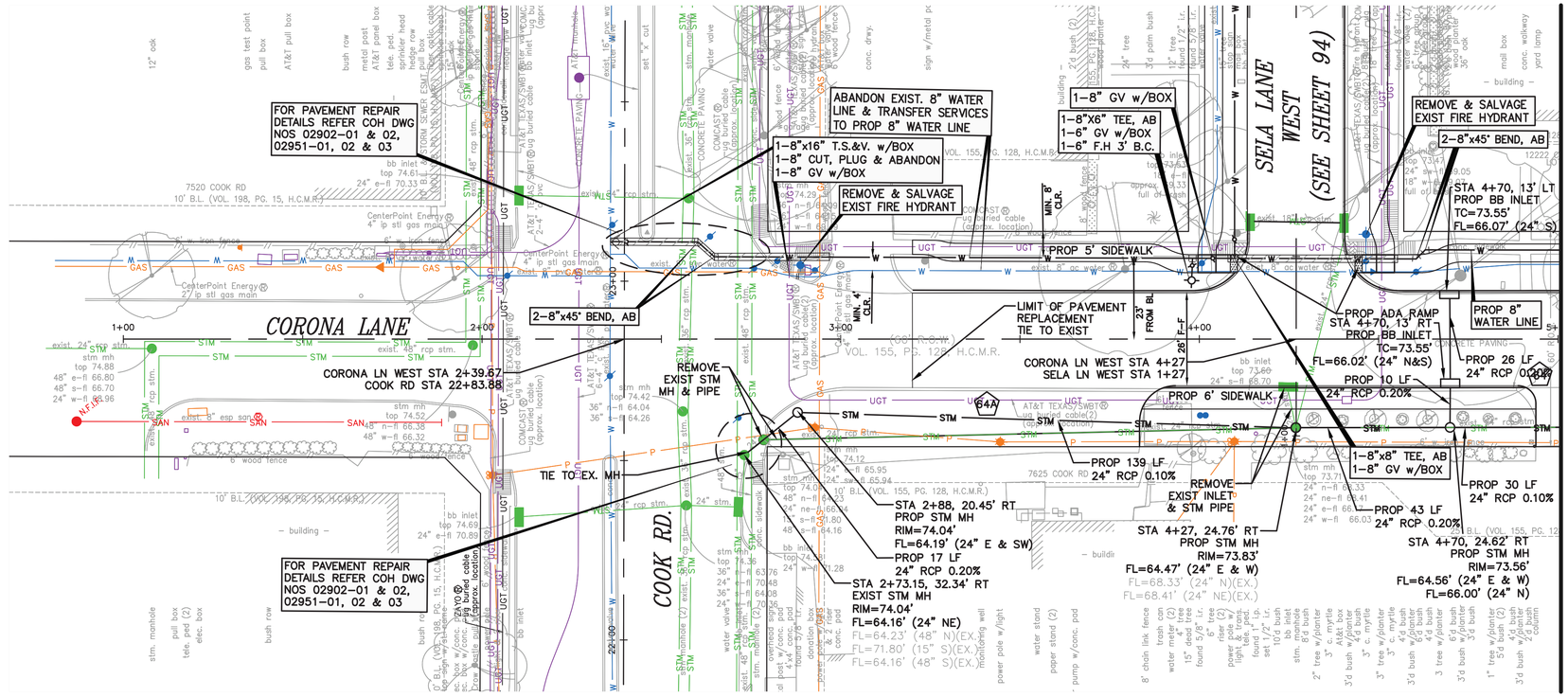
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

SELA LANE
PLAN & PROFILE
STA 19+50 TO END

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 45OF 369	

FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\PP Cutsheet 1.dwg



N

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
1" = 2'-0" FEET V FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.

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ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

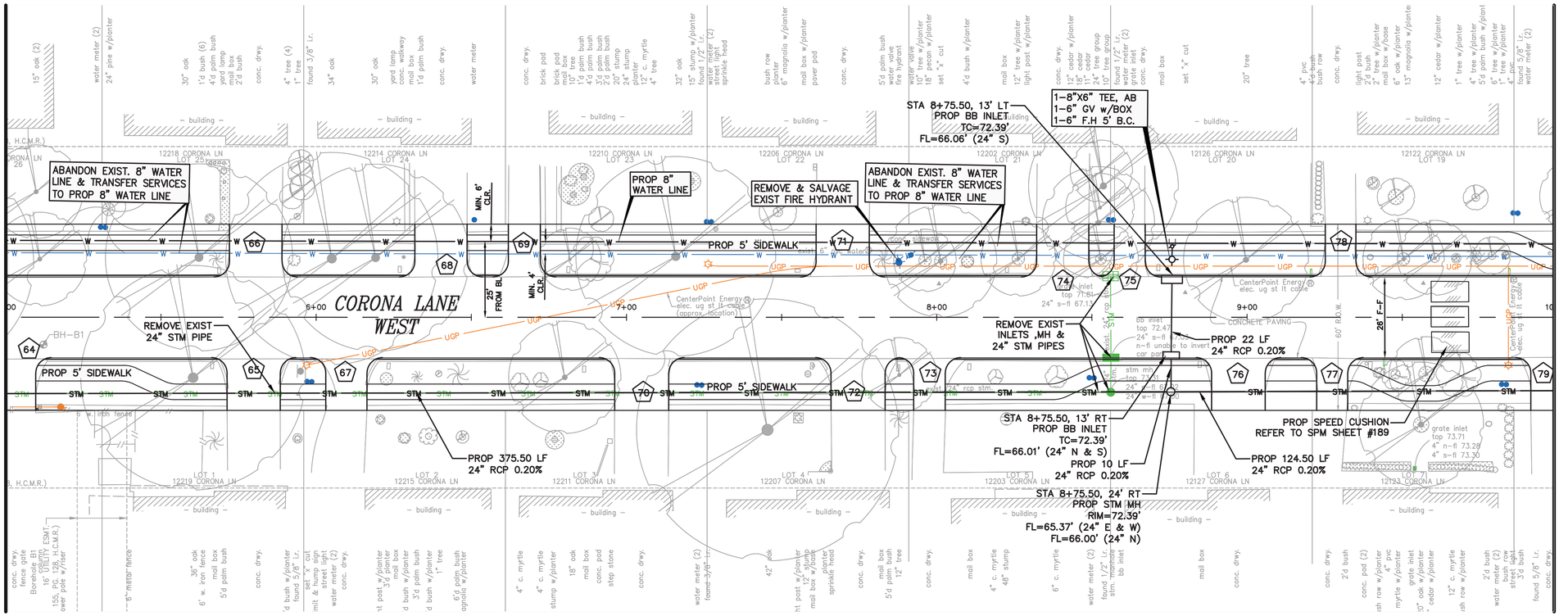
CORONA LANE (WEST)
STA 1+00 TO 5+00

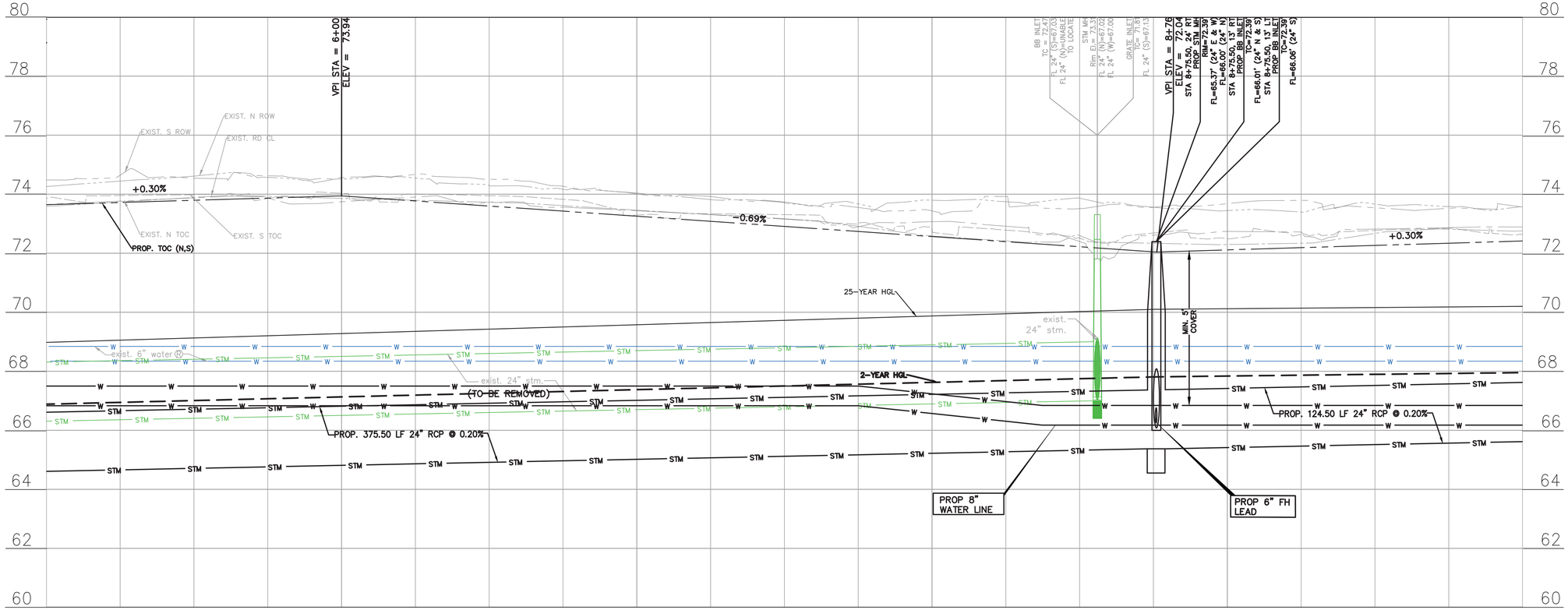
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 46 OF 369	

PLOTTED: 8/13/2026 11:54 PM
FILE PATH: P:\ACTIVE\18PV97 - 2024 Update\Ph II\Working\CAD\PP Cutsheet 1.dwg

MATCH LINE STA 5+00
SEE SHEET 46

MATCH LINE STA 10+00
SEE SHEET 48





N

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
1" = 2'-0" FEET V FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P-6382

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

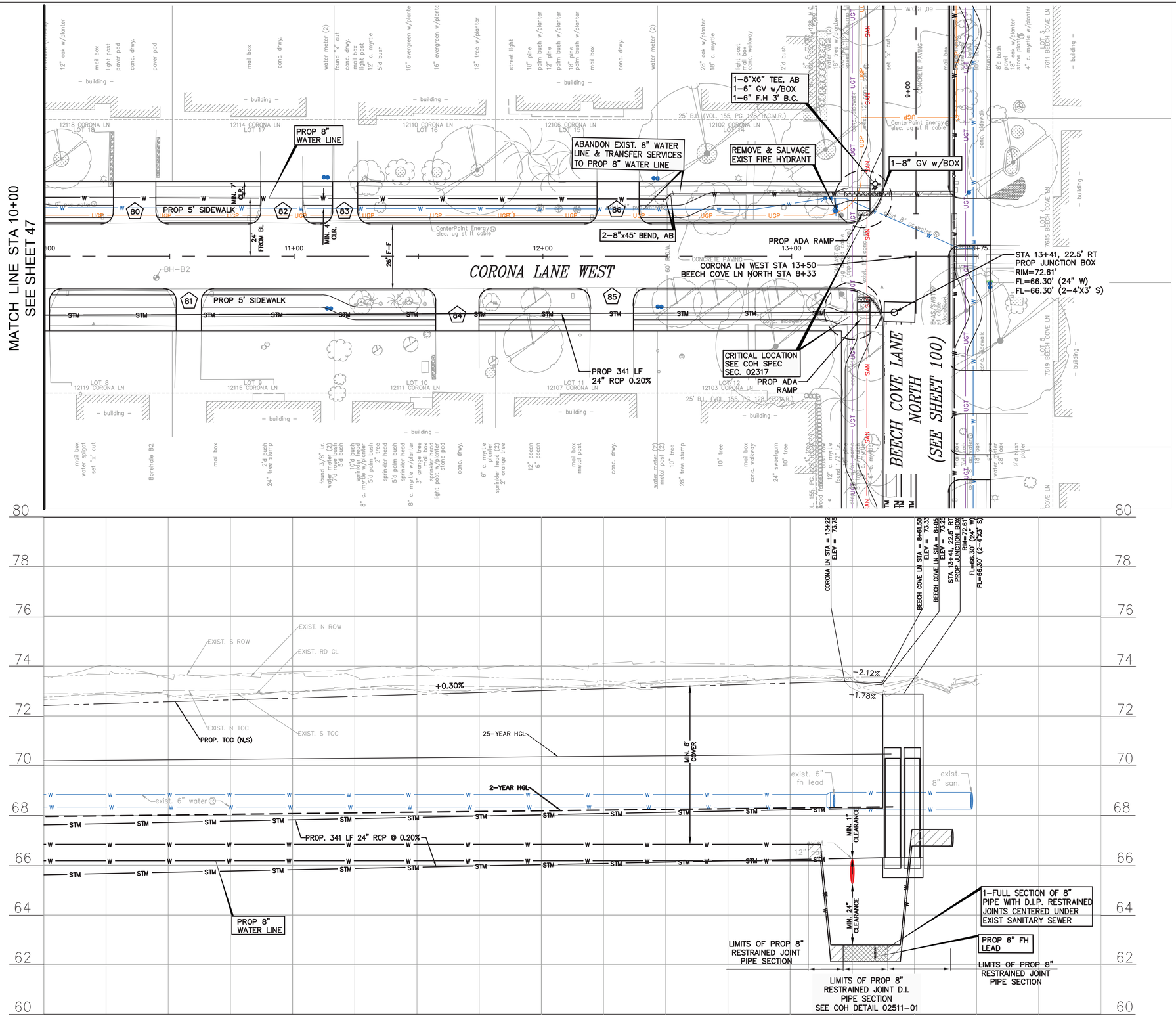
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

CORONA LANE (WEST)
PLAN & PROFILE
STA 5+00 TO 10+00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 47 OF 369	

PLOTTED: 8/14/2026 12:03 AM

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N

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
1" = 2'-0" FEET V FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.

BENCHMARK:

CITY OF HOUSTON MONUMENT 4854-8109, A BRASS DISK IN CONCRETE, LOCATED AT SOUTHWEST CORNER OF THE INTERSECTION OF SHARPCREST LN AND RIPTIDE RD.

ELEV. 72.01 FEET NAVD 1988 (GEOID '18)*

* OBSERVED BY GPS SURVEYING AND PROCESSED IN REFERENCE TO THE CORS DATED DECEMBER 11, 2019.

VERTICAL DATUM ADJUSTMENT:

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VERIFICATION OF PRIVATE UTILITY LINES

Date

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Signature valid for six months.

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ISANI
civil \ design \ engineers
10448 Westoffice Drive
Houston, Texas 77042
P 713 747 2399
F 713 748 3748
TBPE Firm Reg. #4575

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FB NO. P-6382

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

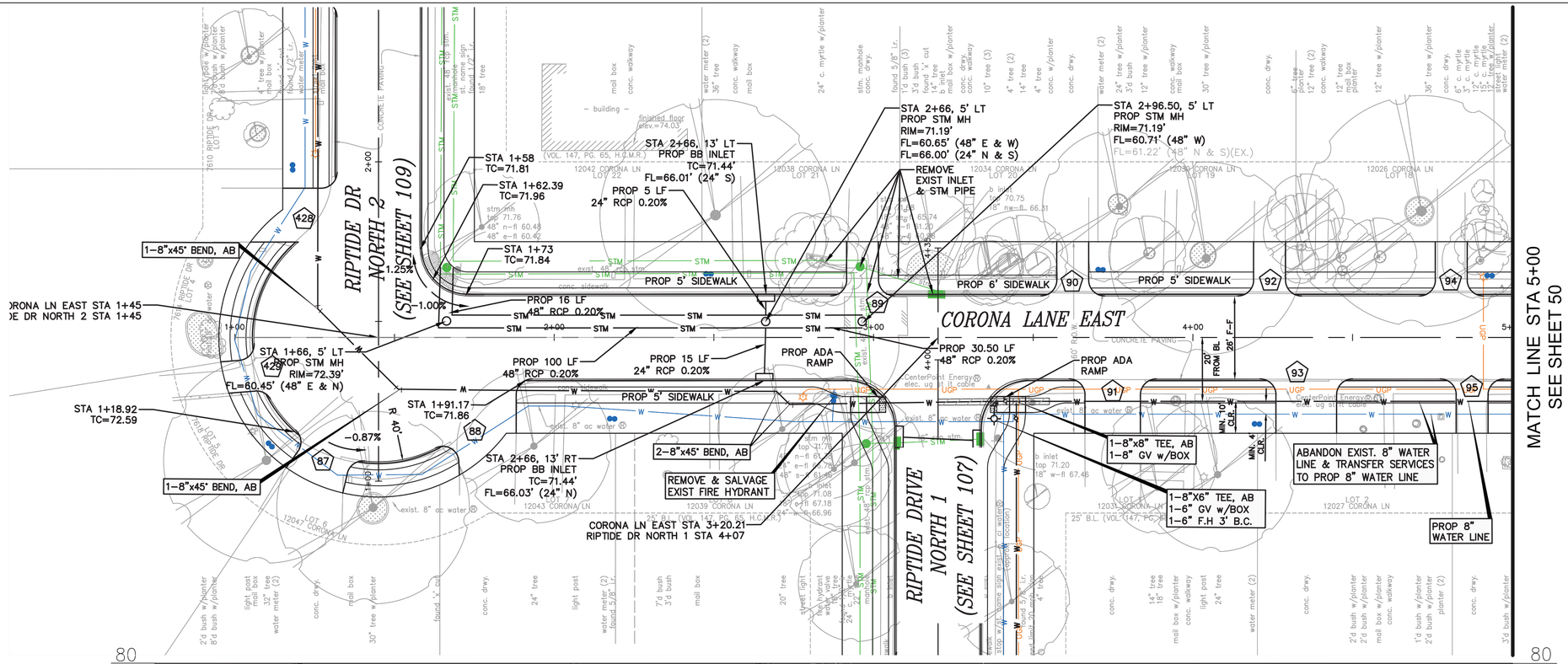
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

CORONA LANE (WEST) PLAN & PROFILE STA 10+00 TO END

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 48 OF 369	

PLOTTED: 8/14/2026 12:12 AM

FILE PATH: P:\ACTIVE\18Proj97 - 2024 Update\Ph II\Working\CAD\PP Cutsheet 1.dwg



N

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
1" = 2'-0" FEET V FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.

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Houston, Texas 77042
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TBPE Firm Reg. #4575

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FB NO. P-6382

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

CORONA LANE (EAST) PLAN & PROFILE STA 1+00 TO 5+00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 49 OF 369	

PLOTTED: 8/14/2026 12:21 AM
FILE PATH: P:\ACTIVE\18Proj97 - 2024 Update\Ph II\Working\CAD\PP Cutsheet 1.dwg

MATCH LINE STA 5+00
SEE SHEET 49

MATCH LINE STA 10+00
SEE SHEET 51

CORONA LANE EAST

SELA LANE EAST 24.00' (SEE SHEET 95)

PROP 5' SIDEWALK

PROP SPEED CUSHION
REFER TO SPM SHEET #190

ABANDON EXIST. 8" WATER LINE & TRANSFER SERVICES TO PROP 8" WATER LINE

PROP 6' SIDEWALK

PROP 8" WATER LINE

REMOVE EXIST. INLET

PROP ADA RAMP

REMOVE EXIST 24" STM PIPE

PROP 63 LF 4'x4' RCP 0.10%

1-8"x8" TEE, AB
1-8" GV w/BOX

EXIST. STM ABANDON & GROUTED

STA 9+37, 21' LT
PROP JUNCTION BOX
RIM=71.33'
FL=64.38' (4'X4' E)
FL=64.38' (24" NW)

CORONA LN EAST STA 9+5.50
SELA LN EAST STA 1+29

12022 CORONA LN LOT 17 | 12018 CORONA LN LOT 16 | 12014 CORONA LN LOT 15 | 12010 CORONA LN LOT 14 | 12006 CORONA LN LOT 13 | 12002 CORONA LN LOT 12

LOT 3 12023 CORONA LN | LOT 4 12019 CORONA LN | LOT 5 12015 CORONA LN | LOT 6 12011 CORONA LN | LOT 7 12007 CORONA LN | LOT 8 12003 CORONA LN | LOT 9 11931 CORONA LN | LOT 10 11927 CORONA LN

VPI STA = 5+98
ELEV = 72.44

+0.30%

-0.33%

EXIST. S ROW
EXIST. N ROW
EXIST. RD CL
EXIST. N TOC
EXIST. S TOC
PROP. TOC (N,S)

MIN. 5' COVER

exist. 8" water

PROP 8" WATER LINE

MIN. 24" CLEARANCE

LIMITS OF PROP 8" RESTRAINED JOINT PIPE SECTION

25-YEAR HGL

2-YEAR HGL

exist. 18" stm

(TO BE REMOVED)

exist. 24" stm.

PROP 63 LF 4'x4' RCB 0.10%

B INLET TC= 71.11 FL 18" (E)=67.71

B INLET TC= 71.38 FL 18" (NE)=64.38

B INLET TC= 71.08 FL 24" (SE)=67.23 FL 18" (W)=67.88

STM MH Rim El=71.72 FL 24" (SE)=67.23 FL 24" (E)=67.13 FL 18" (SW)=67.23

5+00 | 6+00 | 7+00 | 8+00 | 9+00 | 10+00

60 | 62 | 64 | 66 | 68 | 70 | 72 | 74 | 76 | 78 | 80

N

20 0 10 20 40

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TBPE Firm Reg. #4575

INTERIM REVIEW ONLY
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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P-6382

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

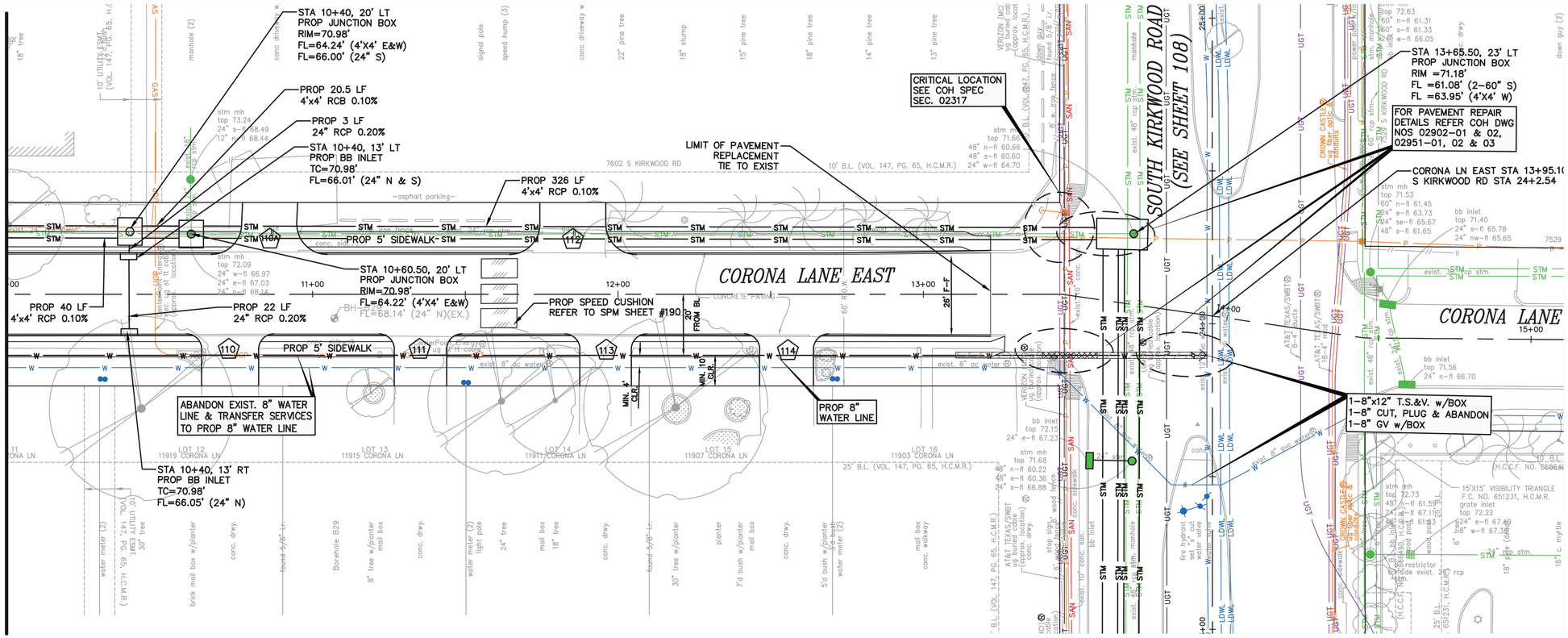
CORONA LANE (EAST) PLAN & PROFILE STA 5+00 TO 10+00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 50 OF 369	

PLOTTED: 8/14/2026 12:30 AM
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PLOTTED: 8/14/2026 12:35 AM

MATCH LINE STA 10+00
SEE SHEET 50



NO.	DATE	REVISION	APP.

BENCHMARK:

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SURVEYED BY: Kuo&Associates
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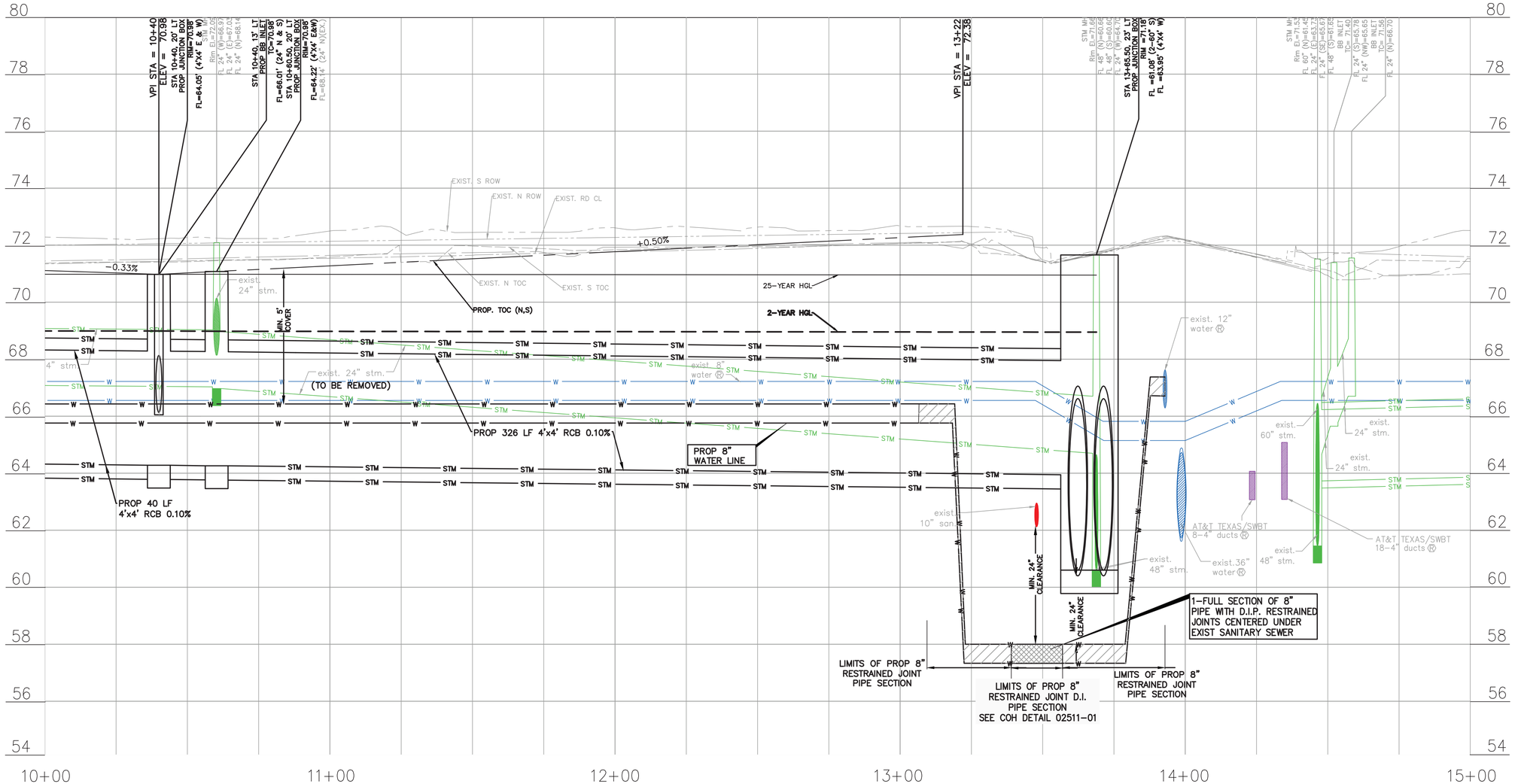
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

CORONA LANE (EAST) PLAN STA 10+00 TO END

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 51 OF 369	

FILE PATH: P:\ACTIVE\18PV97 – 2024 Update\Ph II\Working\CAD\PP Cutsheet 1.dwg

PLOTTED: 8/14/2026 12:41 AM



FILE PATH: P:\ACTIVE\18PV97 - 2024 Update\Ph II\Working\CAD\PP Cutsheet 1.dwg

NO.	DATE	REVISION	APP.

N

20 0 10 20 40

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
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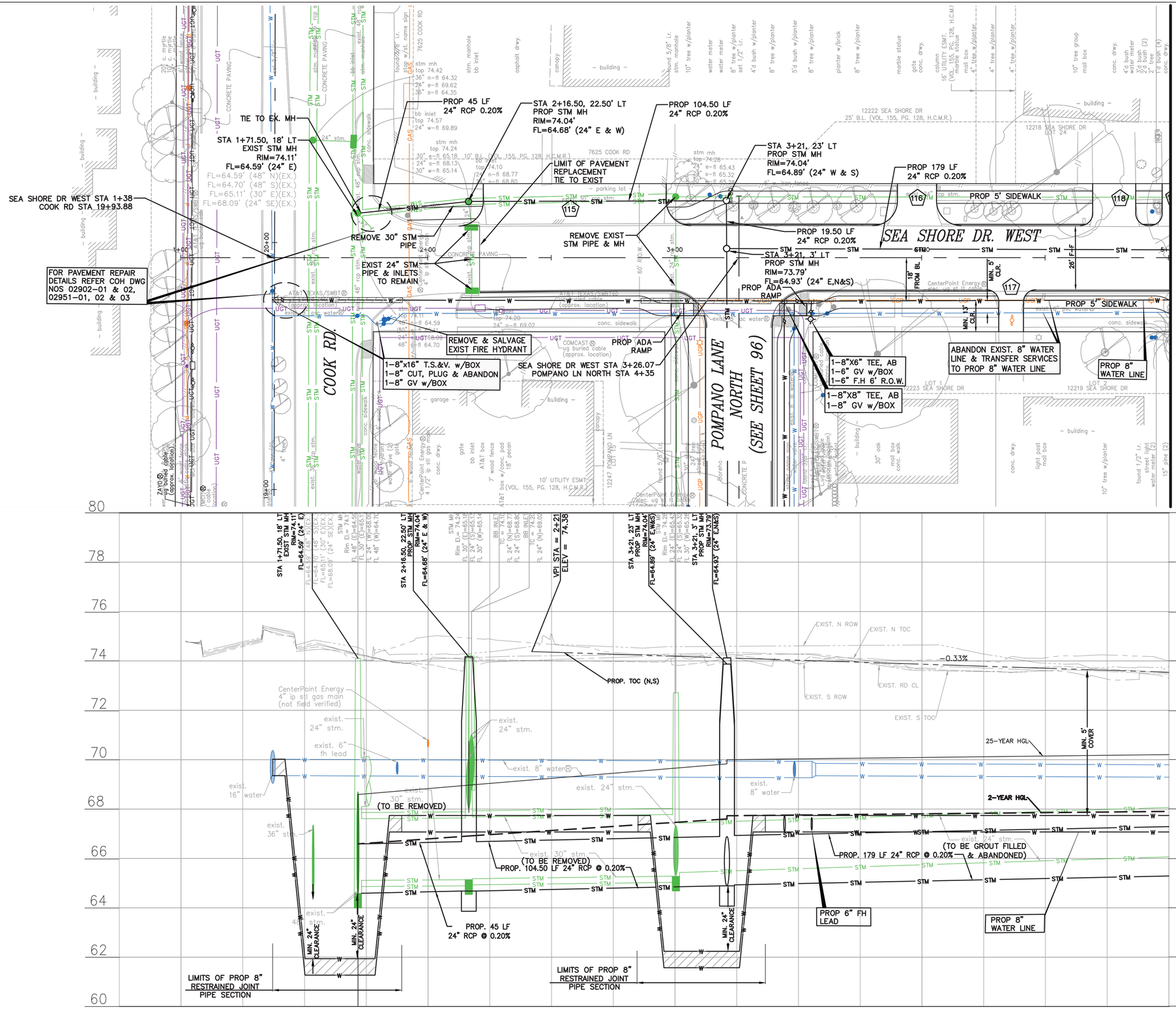
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FB NO. P-6382

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

CORONA LANE (EAST) PROFILE STA 10+00 TO 15+00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 52 OF 369	



N

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
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NO.	DATE	REVISION	APP.

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SEA SHORE DRIVE (WEST) PLAN & PROFILE STA 1+00 TO 5+00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 53 OF 369	

FILE PATH: P:\ACTIVE\18Proj97 - 2024 Update\Ph II\Working\CAD\PP Cutsheet 1.dwg

MATCH LINE STA 5+00
SEE SHEET 53

MATCH LINE STA 10+00
SEE SHEET 55

PROP 118 LF
24" RCP 0.20%

STA 6+18, 13' LT
PROP BB INLET
TC=73.15'
FL=66.01' (24" S)

STA 6+18, 22' LT
PROP JUNCTION BOX
RIM=72.90'
FL=66.00' (24" N&S)
FL=65.52' (2-4'x3' E)
FL=65.52' (24" W)

PROP 382.5 LF
2-4'X3' RCB 0.10%

EXIST STM PIPE TO
BE ABANDONED

REMOVE
EXIST INLET
& STM PIPE

PROP 5 LF
24" RCP 0.20%

PROP 5' SIDEWALK

2-8"x45° BEND, AB

PROP 5 LF
24" RCP 0.20%

SEA SHORE DR. WEST

PROP SPEED CUSHION
REFER TO SPM SHEET #188

STA 6+18, 13' RT
PROP BB INLET
TC=73.15'
FL=66.01' (24" N)

ABANDON EXIST. 8" WATER
LINE & TRANSFER SERVICES
TO PROP 8" WATER LINE

REMOVE & SALVAGE
EXIST FIRE HYDRANT

1-8"X6" TEE, AB
1-6" GV w/BOX
1-6" F.H 4' B.C.

PROP 8"
WATER LINE

12214 SEA SHORE DR
LOT 21
12210 SEA SHORE DR
LOT 22
12206 SEA SHORE DR
LOT 1
12202 SEA SHORE DR
LOT 20
12126 SEA SHORE DR
LOT 19
12122 SEA SHORE DR
LOT 18
12118 SEA SHORE DR
LOT 17
12114 SEA SHORE DR
LOT 16
12215 SEA SHORE DR
LOT 3
12211 SEA SHORE DR
LOT 4
12207 SEA SHORE DR
LOT 5
12203 SEA SHORE DR
LOT 6
12127 SEA SHORE DR
LOT 7
12123 SEA SHORE DR
LOT 8
12119 SEA SHORE DR
LOT 9
12115 SEA SHORE DR
LOT 10

EXIST. S ROW
EXIST. N ROW
EXIST. RD CL
EXIST. N TOC
EXIST. S TOC
PROP. TOC (N,S)
-0.33%
+0.33%
-0.37%
MIN. 5' COVER
25-YEAR HGL
2-YEAR HGL
exist. 6" water
exist. 18" strm.
exist. 6" fh lead
exist. 24" strm
(TO BE GROUT FILLED & ABANDONED)
PROP. 118 LF
24" RCP @ 0.20%
PROP. 382.50 LF
2-4'X3' RCB 0.10%
PROP. 6" FH LEAD
PROP. 8" WATER LINE
VPI STA = 7+92.64
ELEV = 73.77
VPI STA = 6+21
ELEV = 73.15

N

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DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
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HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

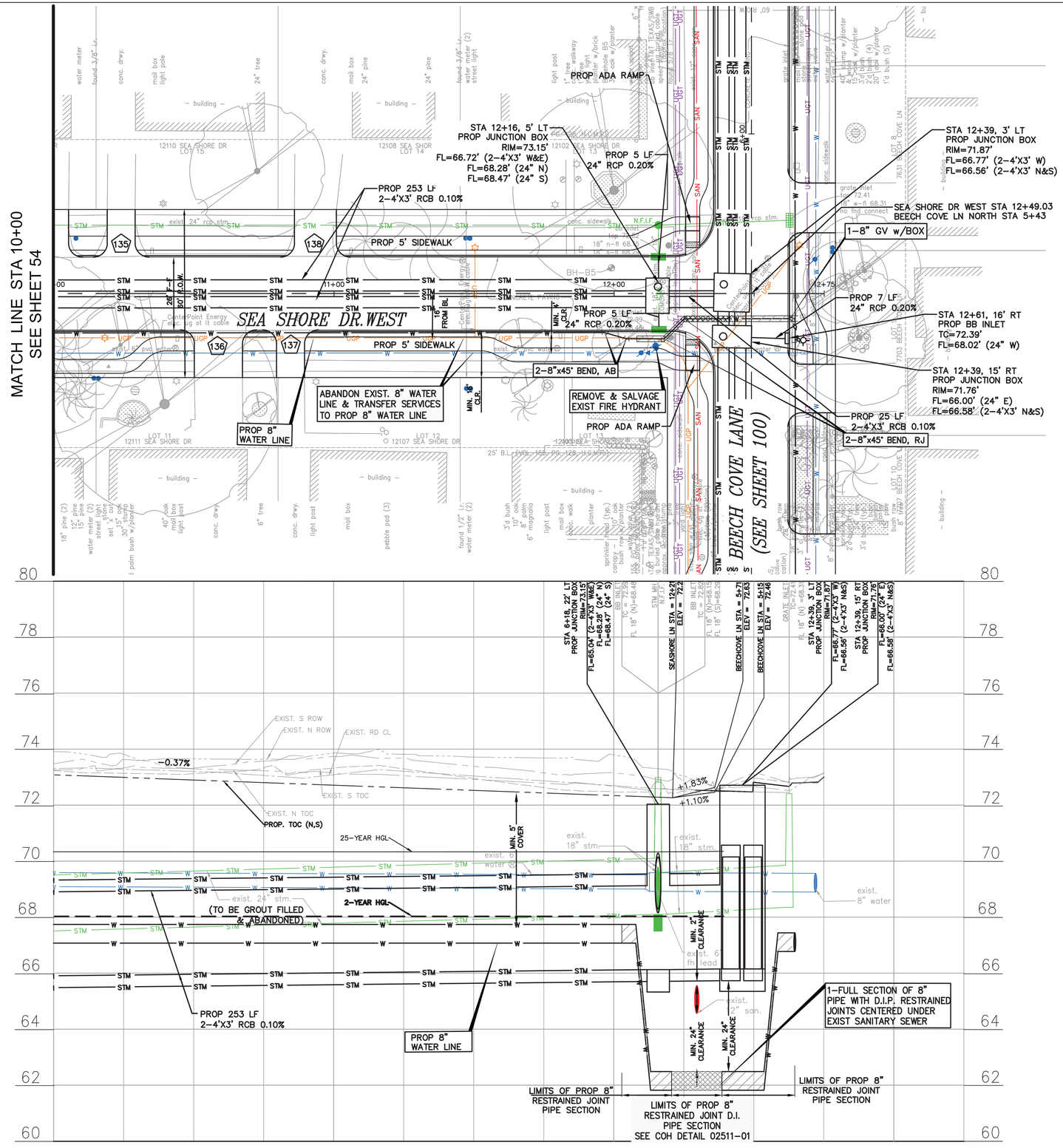
SEA SHORE DRIVE (WEST) PLAN & PROFILE STA 5+00 TO 10+00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 54 OF 369	

NO.	DATE	REVISION	APP.

PLOTTED: 8/14/2026 12:59 AM

FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\PP Cutsheet 1.dwg



N

20 0 10 20 40

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
1" = 2'-0" FEET V FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.

BENCHMARK:

CITY OF HOUSTON MONUMENT 4854-8109, A BRASS DISK IN CONCRETE, LOCATED AT SOUTHWEST CORNER OF THE INTERSECTION OF SHARPCREST LN AND RIPTIDE RD.

ELEV. 72.01 FEET NAVD 1988 (GEOID '18)*

* OBSERVED BY GPS SURVEYING AND PROCESSED IN REFERENCE TO THE CORS DATED DECEMBER 11, 2019.

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VERIFICATION OF PRIVATE UTILITY LINES

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Houston, Texas 77042
P 713 747 2399
F 713 748 3748
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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P-6382

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

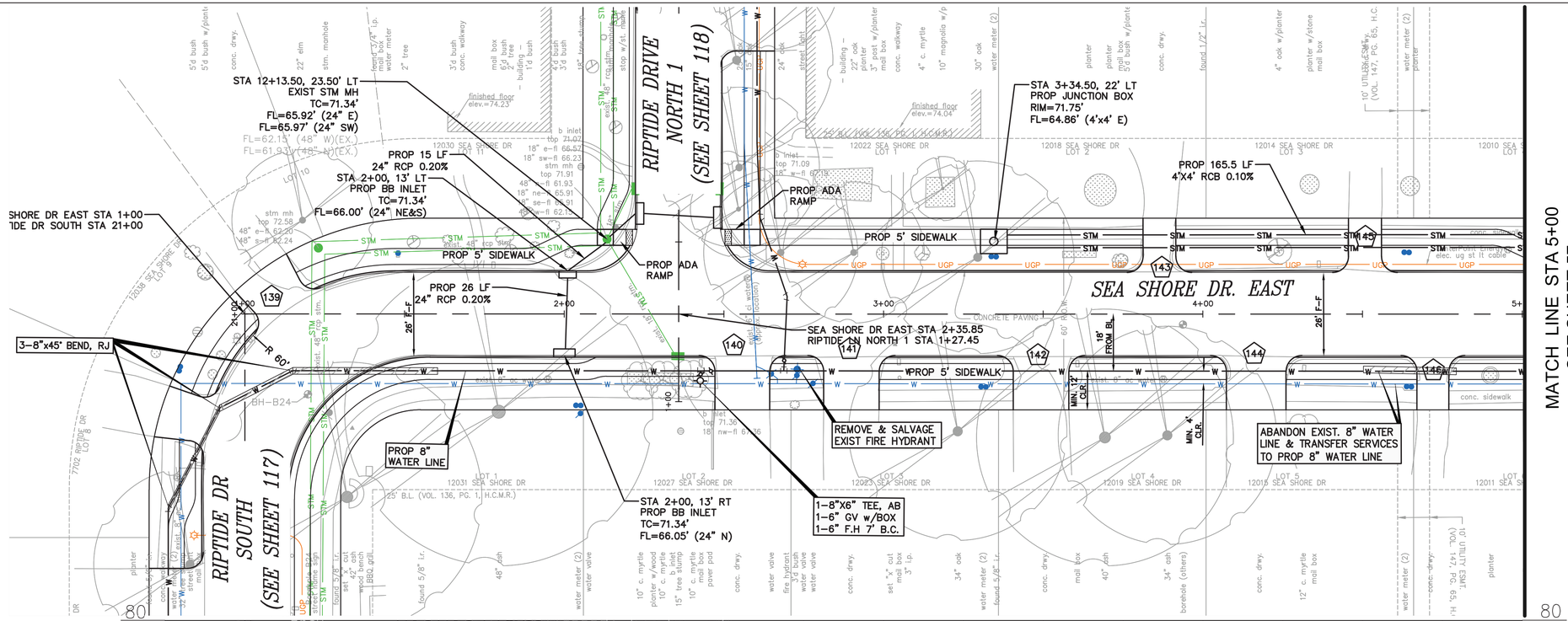
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

SEA SHORE DRIVE (WEST)
PLAN & PROFILE
STA 10+00 TO END

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 55 OF 369	

PLOTTED: 8/14/2026 1:08 AM

FILE PATH: P:\ACTIVE\18Proj7 - 2024 Update\Ph II\Working\CAD\PP Cutsheet 1.dwg



N

20 0 10 20 40

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
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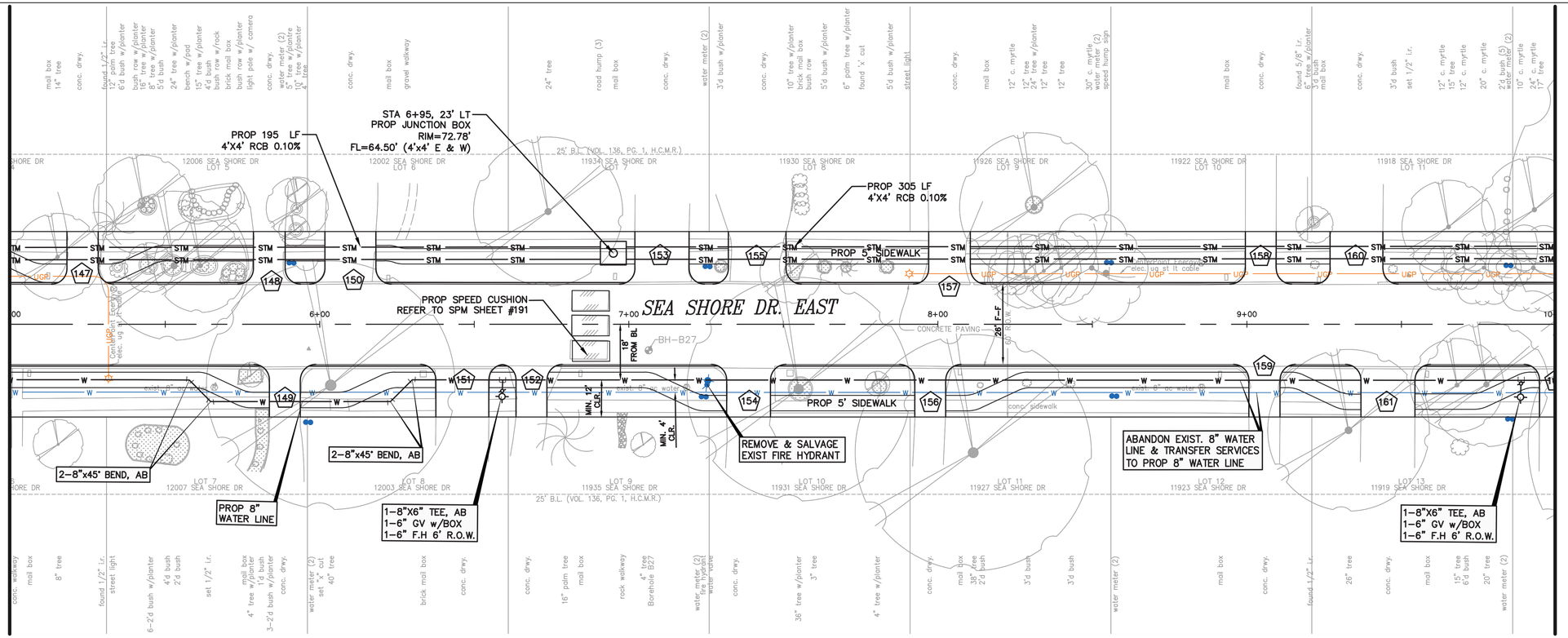
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

SEA SHORE DRIVE (EAST) PLAN & PROFILE STA 1+00 TO 5+00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 56 OF 369	

PLOTTED: 8/14/2026 1:17 AM
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N

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
1" = 2'-0" FEET V FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.

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P.E. Reg No: 130533
DATE: AUGUST 2026

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FB NO. P-6382

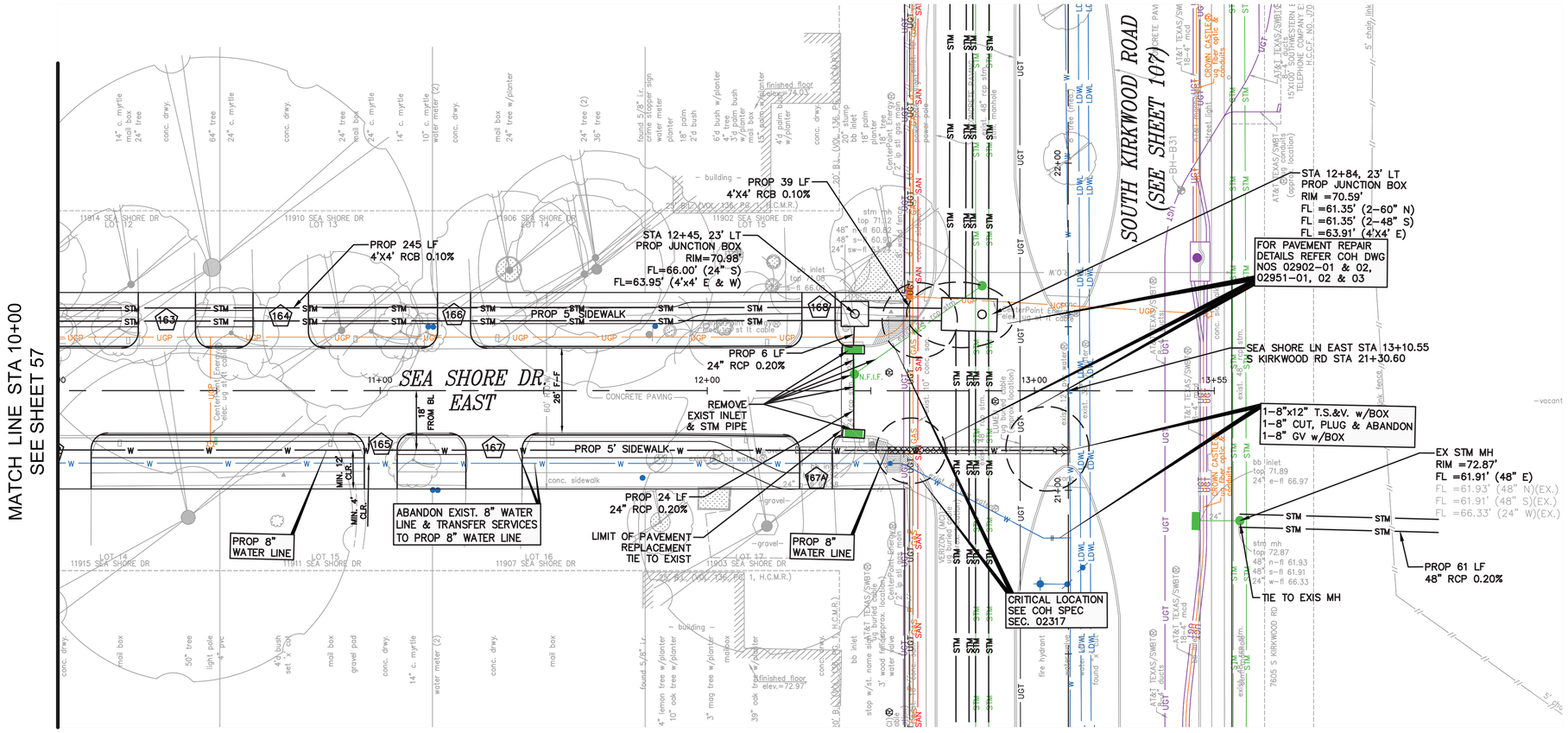
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HOUSTON PUBLIC WORKS

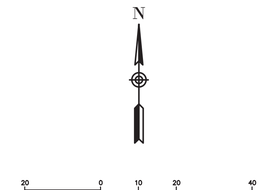
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

SEA SHORE DRIVE (EAST)
PLAN & PROFILE
STA 5+00 TO 10+00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 57 OF 369	

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NO.	DATE	REVISION	APP.

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

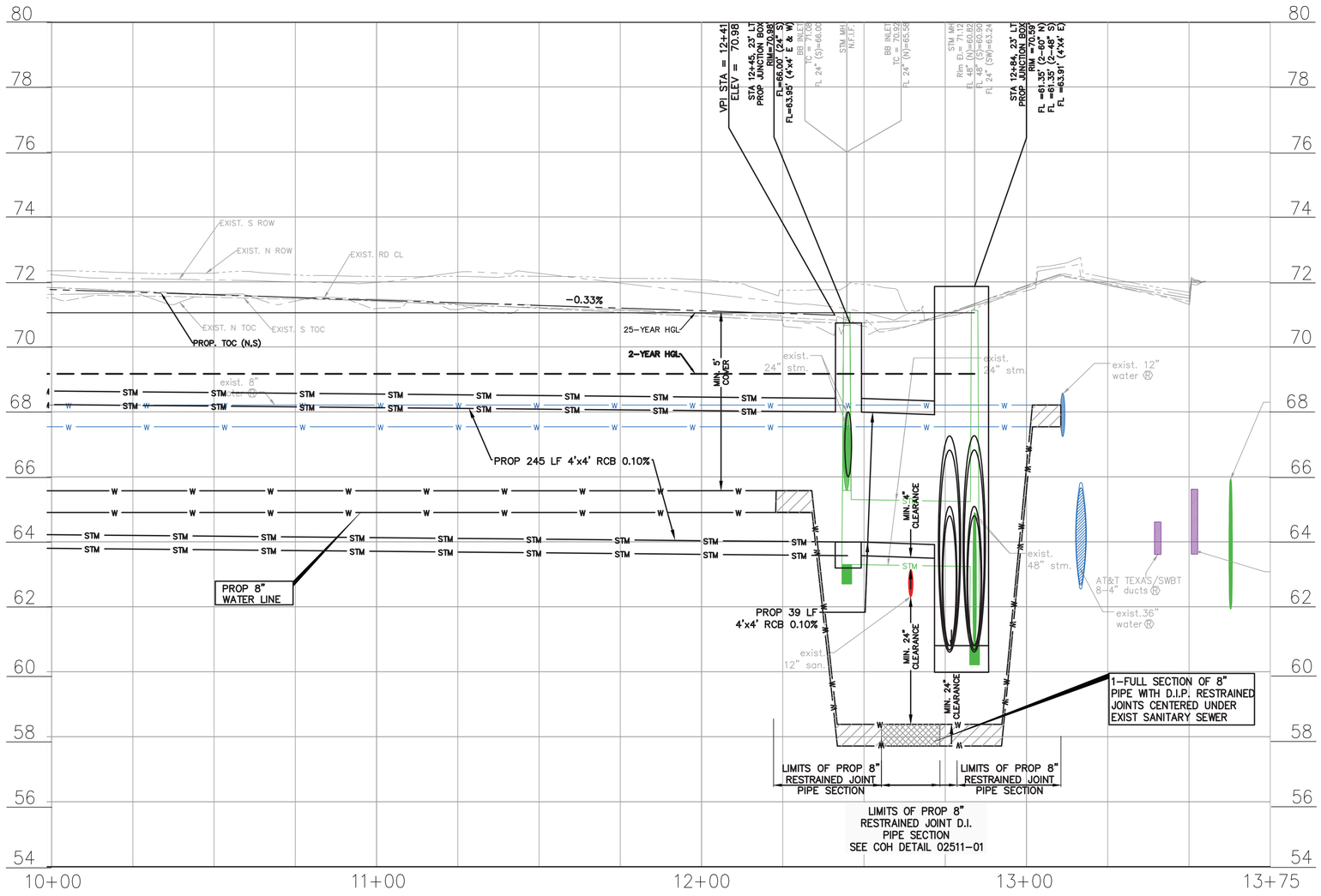
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

SEA SHORE DRIVE (EAST)
PLAN
STA 10+00 TO END

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 58 OF 369	

PLOTTED: 8/14/2026 1:32 AM
FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\PP Cutsheet 1.dwg



NO.	DATE	REVISION	APP.

20 0 10 20 40

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
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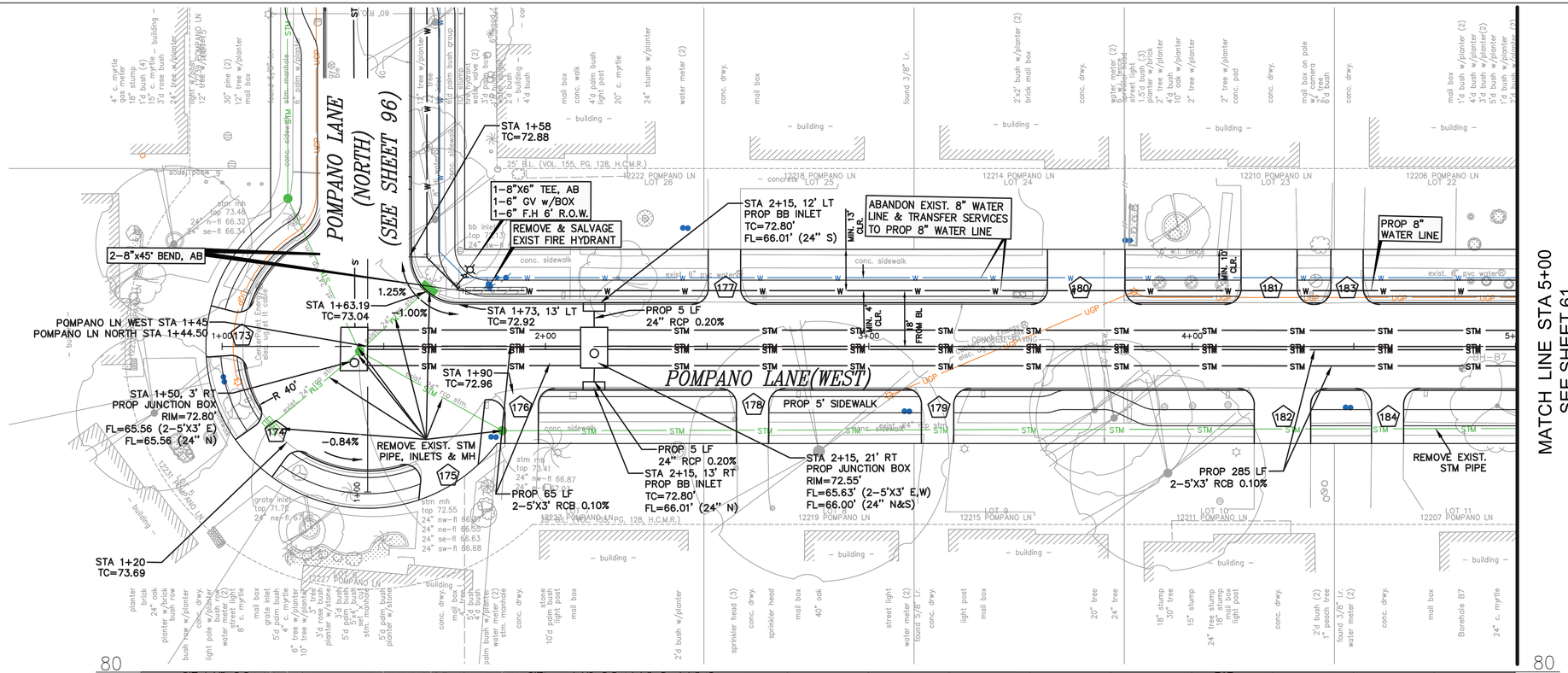
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

SEA SHORE DRIVE (EAST)
PROFILE
STA 10+00 TO END

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 59 OF 369	

PLOTTED: 8/14/2026 1:37 AM

FILE PATH: P:\ACTIVE\18PV97 - 2024 Update\Ph II\Working\CAD\PP Cutsheet 1.dwg



MATCH LINE STA 5+00
SEE SHEET 61

PLOTTED: 8/14/2026 1:46 AM

FILE PATH: P:\ACTIVE\18Proj97 - 2024 Update\Ph II\Working\CAD\PP Cutsheet 1.dwg

NO.	DATE	REVISION	APP.

N

20 0 10 20 40

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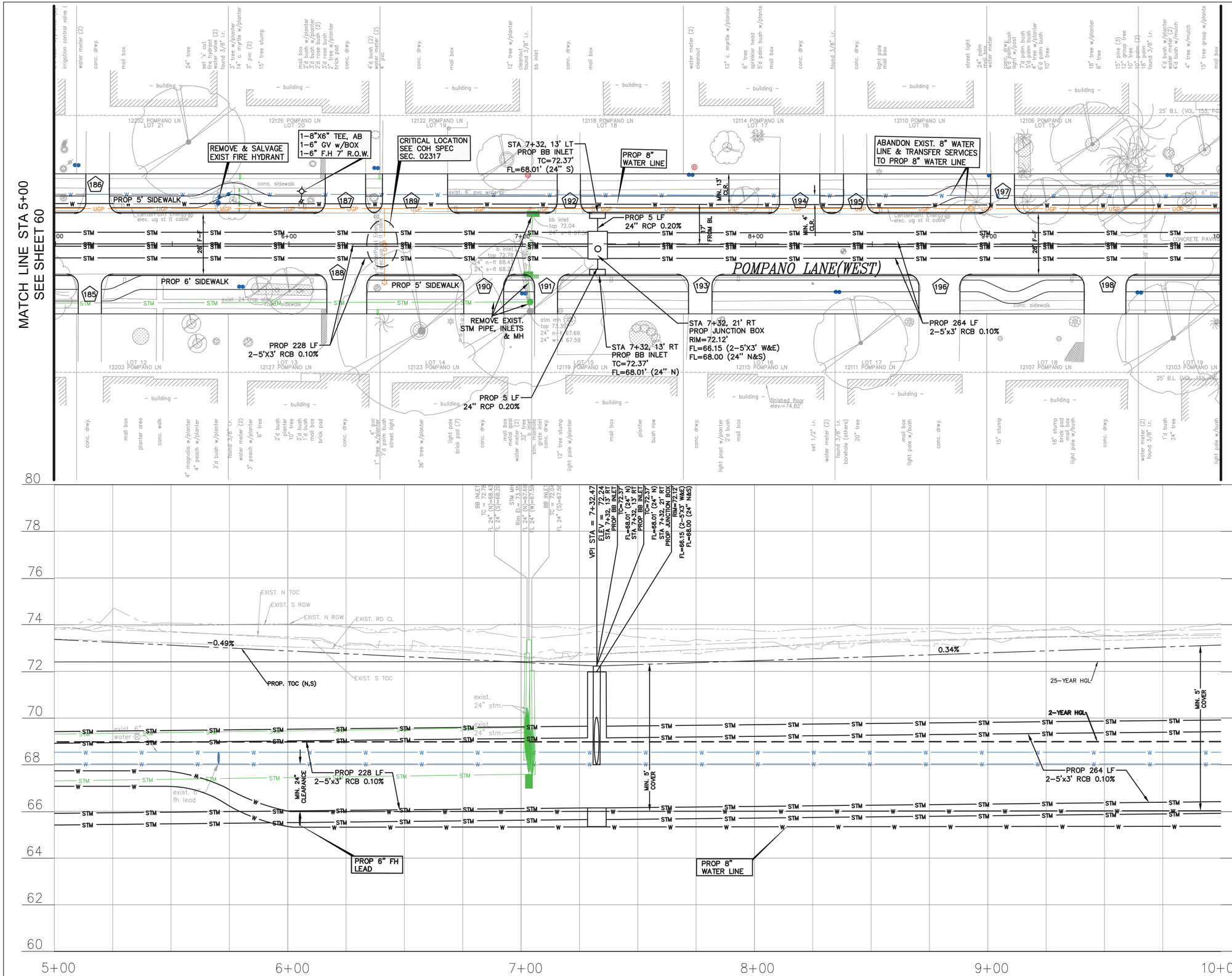
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

POMPANO LANE (WEST) PLAN &PROFILE STA 1+00 TO 5+00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 60 OF 369	



N

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
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NO.	DATE	REVISION	APP.

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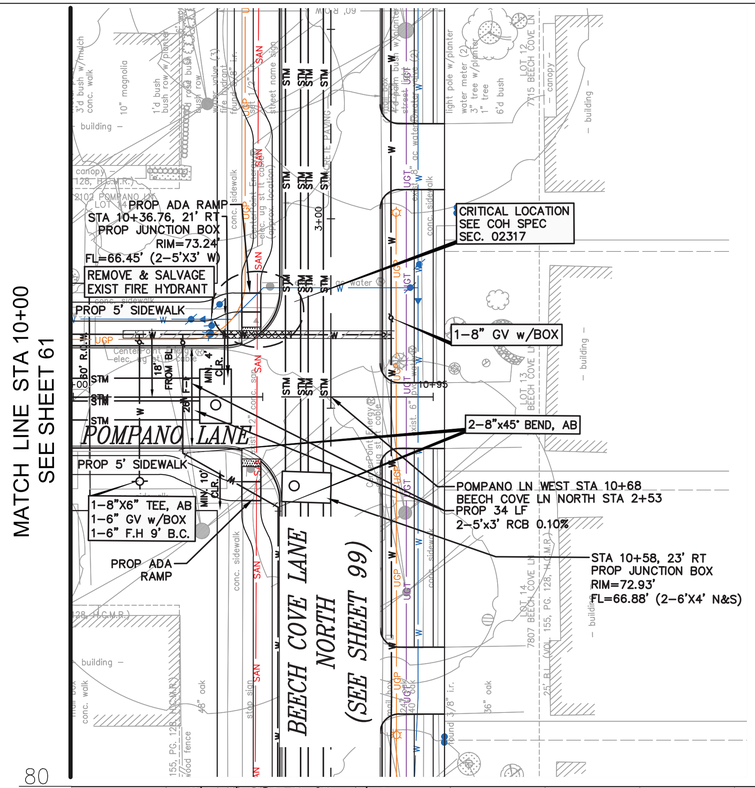
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WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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SHEET NO. 61 OF 369	

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PLOTTED: 8/14/2026 2:05 AM





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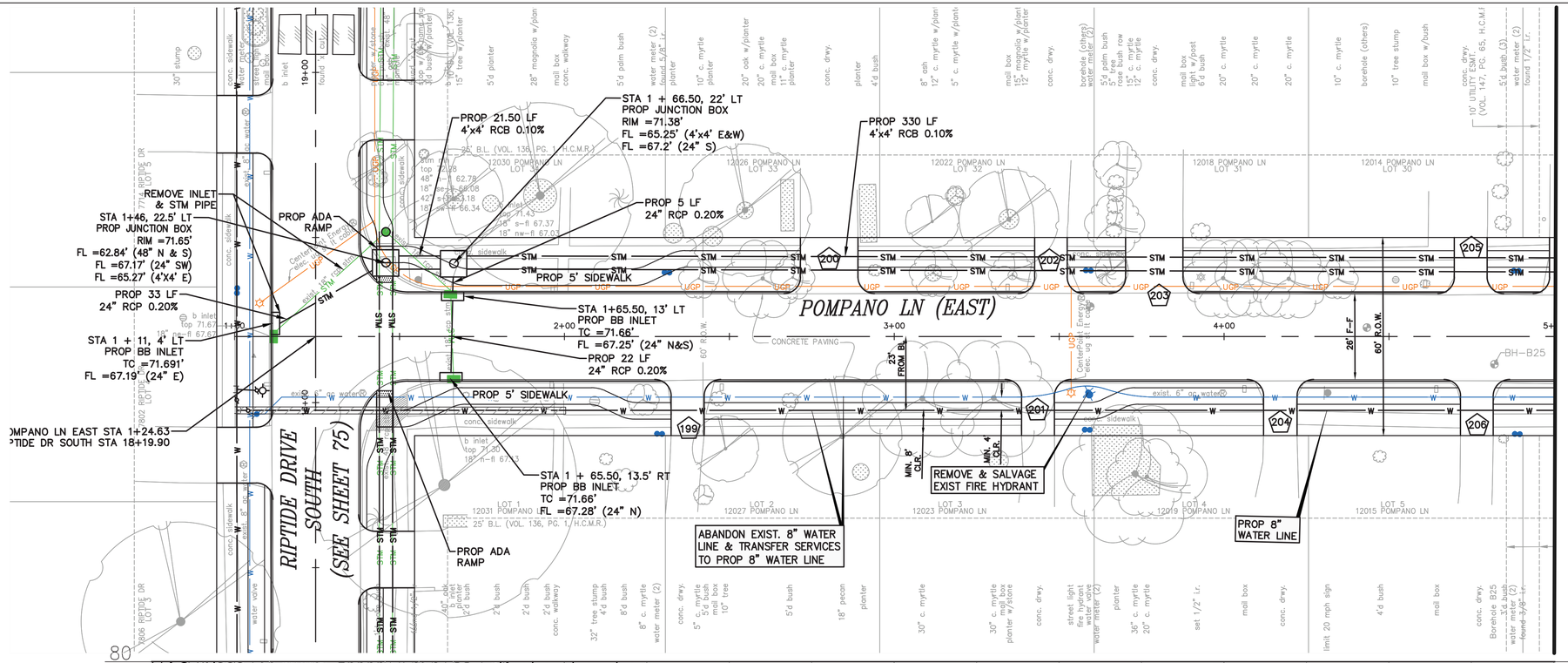
CITY OF HOUSTON
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POMPANO LANE (WEST) PLAN & PROFILE STA 10+00 TO 11+00

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ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 62 OF 369	

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1" = 2'-0" FEET V FOR 22"X34" SHEET

NO. | DATE | REVISION | APP.

BENCHMARK:

CITY OF HOUSTON MONUMENT 4854-8109, A BRASS DISK IN CONCRETE, LOCATED AT SOUTHWEST CORNER OF THE INTERSECTION OF SHARPCREST LN AND RIPTIDE RD.

ELEV. 72.01 FEET NAVD 1988 (GEOID '18)*

* OBSERVED BY GPS SURVEYING AND PROCESSED IN REFERENCE TO THE CORS DATED DECEMBER 11, 2019.

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civil \ design \ engineers
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F 713 748 3748
TBPE Firm Reg. #4575

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FB NO. P-6382

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P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

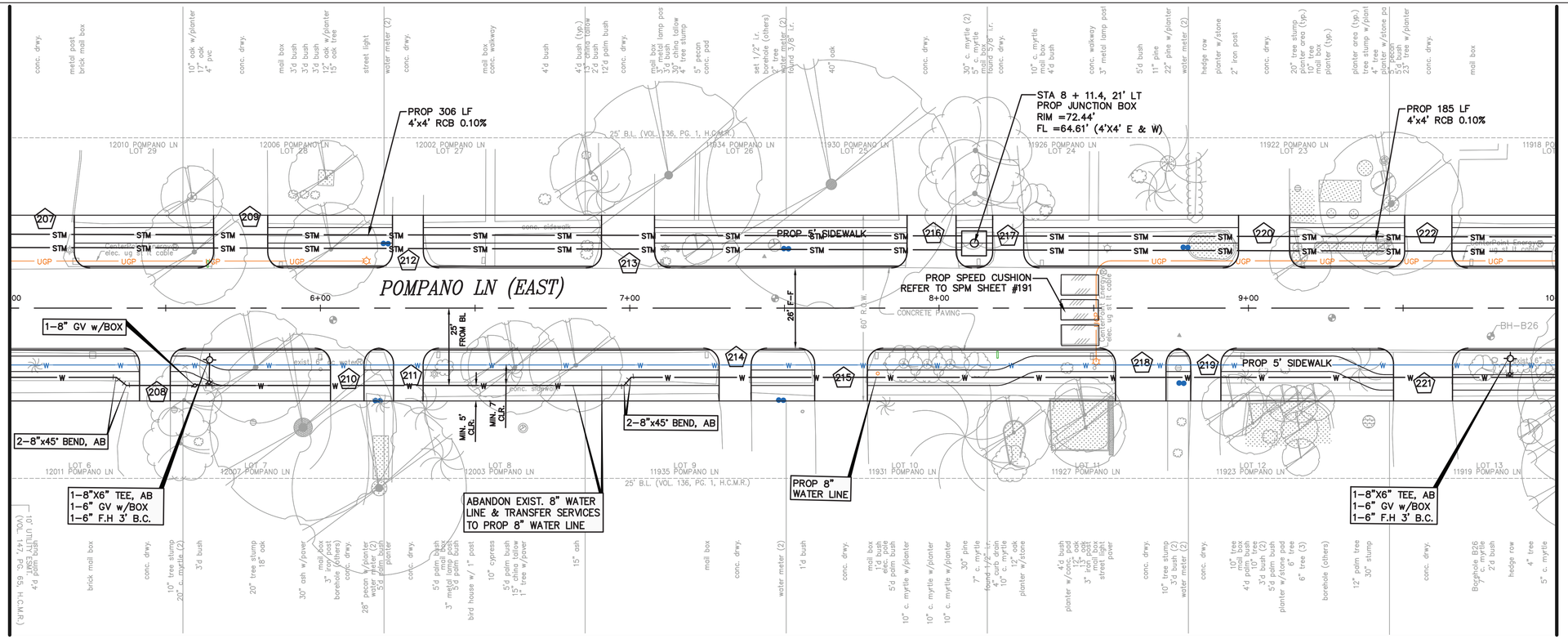
POMPANO LANE (EAST)
PLAN & PROFILE
STA 1+00 TO 5+00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 63 OF 369	

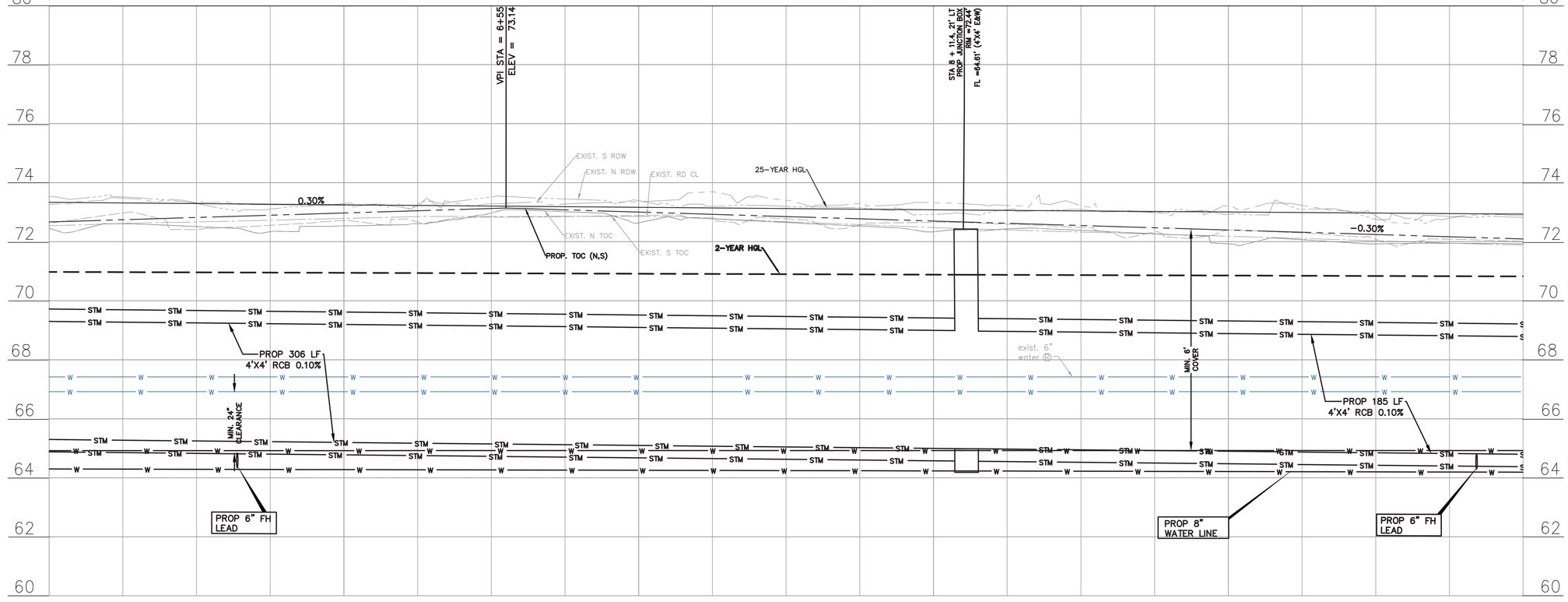
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MATCH LINE STA 5+00
SEE SHEET 63



MATCH LINE STA 10+00
SEE SHEET 65



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NO.	DATE	REVISION	APP.

N

20 0 10 20 40

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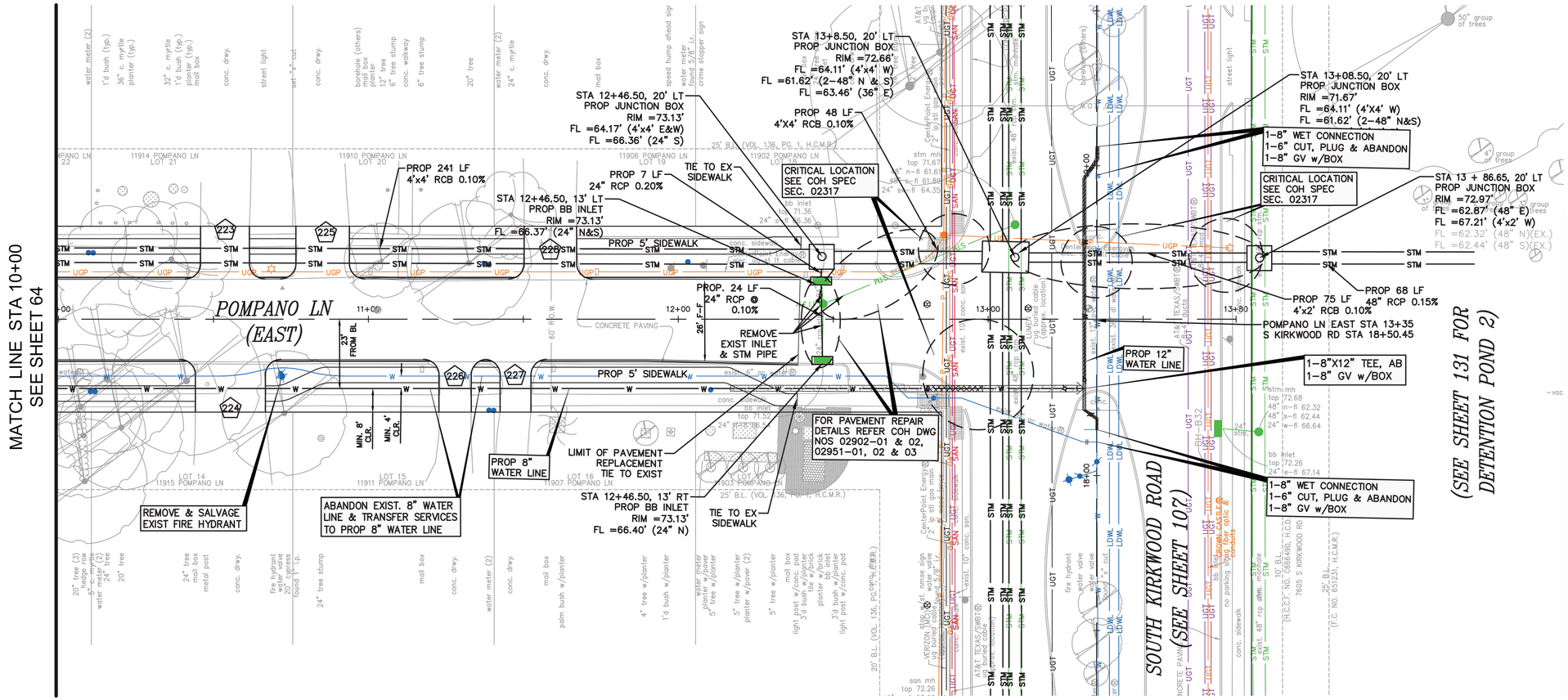
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

POMPANO LANE (EAST)
PLAN & PROFILE
STA 5+00 TO 10+00

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CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 64 OF 369	



N

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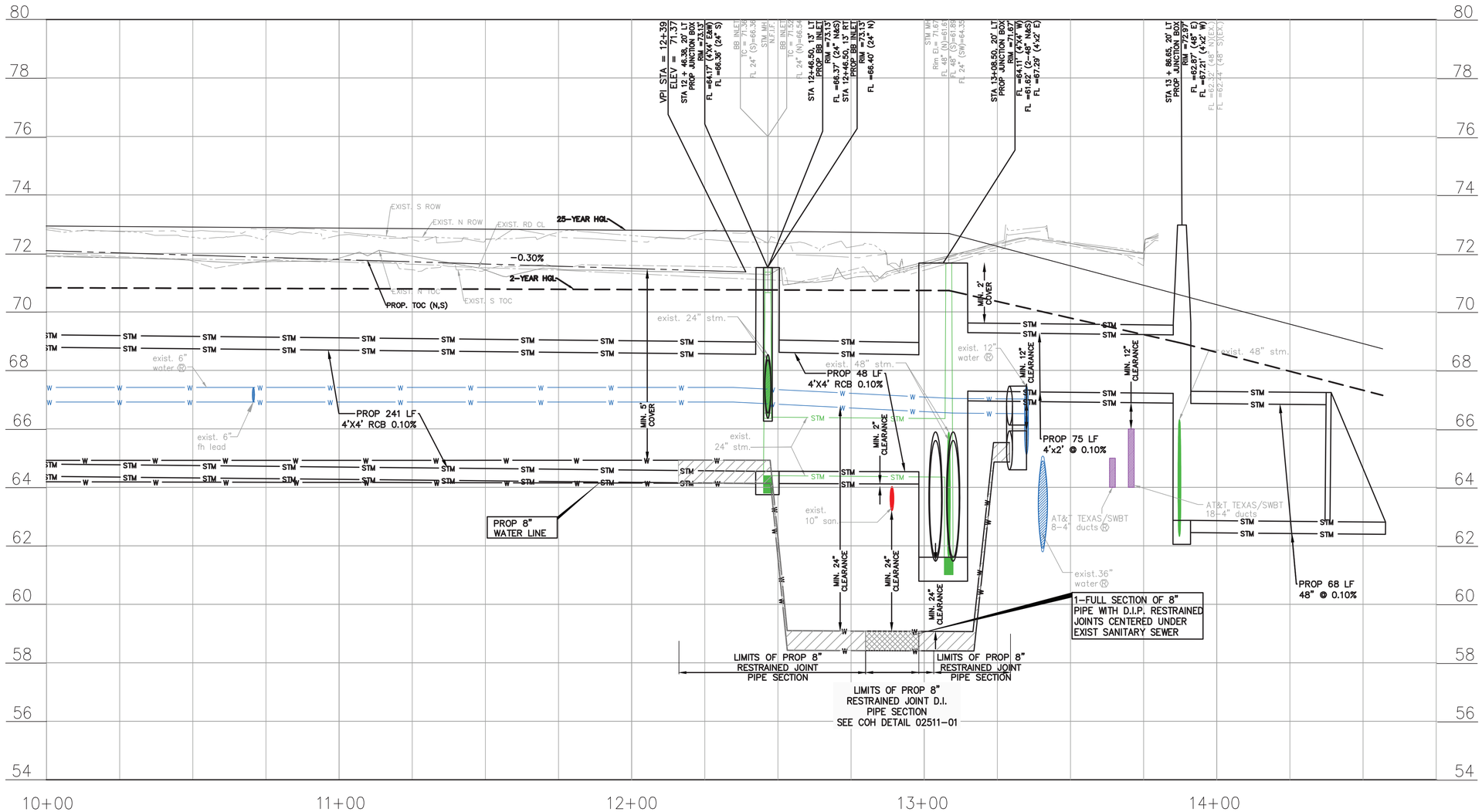
CITY OF HOUSTON
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POMPANO LANE (EAST) PLAN STA 10+00 TO 14+00

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CITY OF HOUSTON PM	
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SHEET NO. 65 OF 369	

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DATE: AUGUST 2026

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

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POMPANO LANE (EAST) PROFILE
STA 10+00 TO END

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SHEET NO. 66 OF 369	

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(SEE SHEET 125 FOR DETENTION POND 1)

16'X32' LIFT STATION SITE

asphalt parking

H.C.F.C.D. DRAINAGE ESMT. (VOL. 136, PG. 1, H.C.M.R.)

6' wood fence

CenterPoint Energy ⓔ 3" sp stl gas main

STA 2+29, 13' LT
PROP BB INLET
TC=71.47'
FL=66.01' (24" S)

PROP 5 LF
24" RCP 0.20%

PROP 67 LF
30" RCP 0.10%

PROP 200 LF
30" RCP 0.10%

STA 2+29, 5' LT
PROP STM MH
RIM=71.22'
FL=63.30' (30" W & E)
FL=66.00' (24" N & S)

PROP 15 LF
24" RCP 0.20%

STA 2+29, 13' RT
PROP BB INLET
TC=71.47'
FL=66.03' (24" S)

PROP ADA RAMP

REMOVE EXIST INLET & STM PIPE

RIPTIDE DRIVE (SOUTH)

(SEE SHEET 115)

STA 2+96, 5' LT
PROP STM MH
RIM=71.47'
FL=63.24' (48" N & S)
FL=63.44' (30" E & W)

STA 3+27.50, 13' LT
PROP BB INLET
TC=72.14'
FL=66.01' (24" S)

PROP 5 LF
24" RCP 0.20%

STA 3+27.50, 5' LT
PROP STM MH
RIM=71.89'
FL=63.28' (30" W)
FL=66.00' (24" N & S)

PROP 31.50 LF
30" RCP 0.20%

PROP 5' SIDEWALK

PROP 15 LF
24" RCP 0.20%

SHARPCREST ST.

STA 3+27.50, 13' RT
PROP BB INLET
TC=72.14'
FL=66.03' (24" N)

SHARPCREST ST STA 2+74.96
RIPTIDE DR SOUTH STA 15+40

PROP 8" WATERLINE

ABANDON EXIST. 8" WATER LINE & TRANSFER SERVICES TO PROP 8" WATER LINE

MATCH LINE STA 5+50
SEE SHEET 68

VPI STA = 1+43
ELEV = 71.73

STA 2+29, 5' LT
PROP STM MH
RIM=71.22'

STA 2+46.96
ELEV = 71.64

RIPTIDE DR STA = 15+12
ELEV = 72.03

RIPTIDE DR STA = 15+56
ELEV = 72.03

RIPTIDE DR STA = 15+68
ELEV = 72.03

RIPTIDE DR STA = 15+80
ELEV = 72.03

STA 2+96, 5' LT
PROP STM MH
RIM=71.47'

STA 3+27.50, 13' LT
PROP BB INLET
TC=71.35'

STA 3+27.50, 5' LT
PROP STM MH
RIM=71.89'

exist. 8" san.

exist. 18" stm.

exist. 8" stm.

exist. 42" stm.

exist. 8" water

exist. 10" san.

exist. 12" san.

25-YEAR HGL

2-YEAR HGL

+1.66%
+1.53%
-0.31%
-1.66%
-1.76%
-1.04%
+0.31%
+0.31%

EXIST. N ROW
EXIST. S ROW
EXIST. N TOC
EXIST. S TOC
PROP. TOC (N,S)
EXIST. RD CL

MIN. 5' COVER

PROP 200 LF
30" RCP 0.10%

PROP 67 LF
30" RCP 0.10%

PROP 31.5 LF
30" RCP 0.10%

MIN. 24" CLEARANCE

MIN. 24" CLEARANCE

PROP 8" WATER LINE

LIMITS OF PROP 8" RESTRAINED JOINT PIPE SECTION

1+00 2+00 3+00 4+00 5+00 5+50

78 76 74 72 70 68 66 64 62 60 58

N

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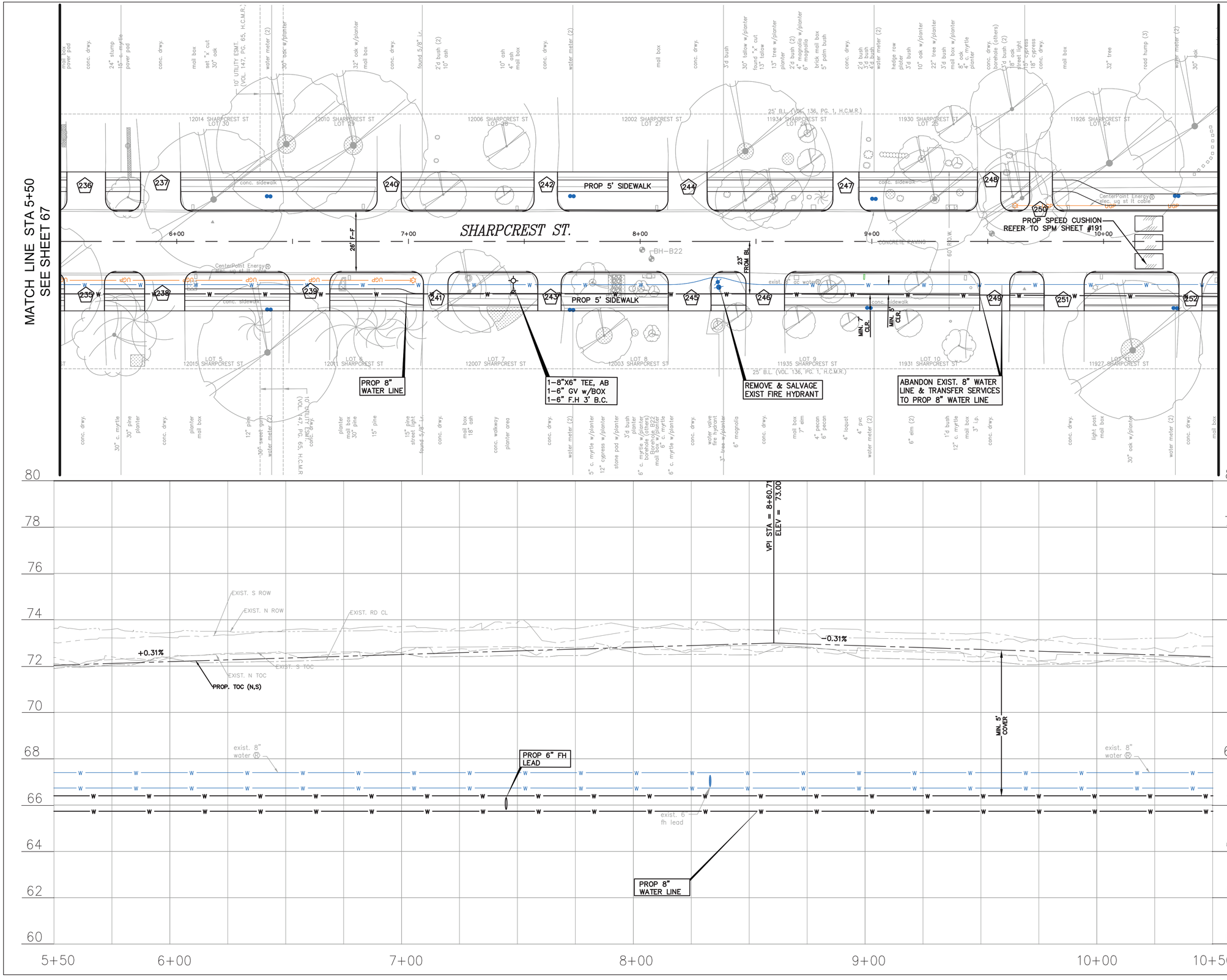
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

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SHARPCREST STREET PLAN & PROFILE STA 1+00 TO 5+50

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SHEET NO. 67 OF 369	

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20 0 10 20 40

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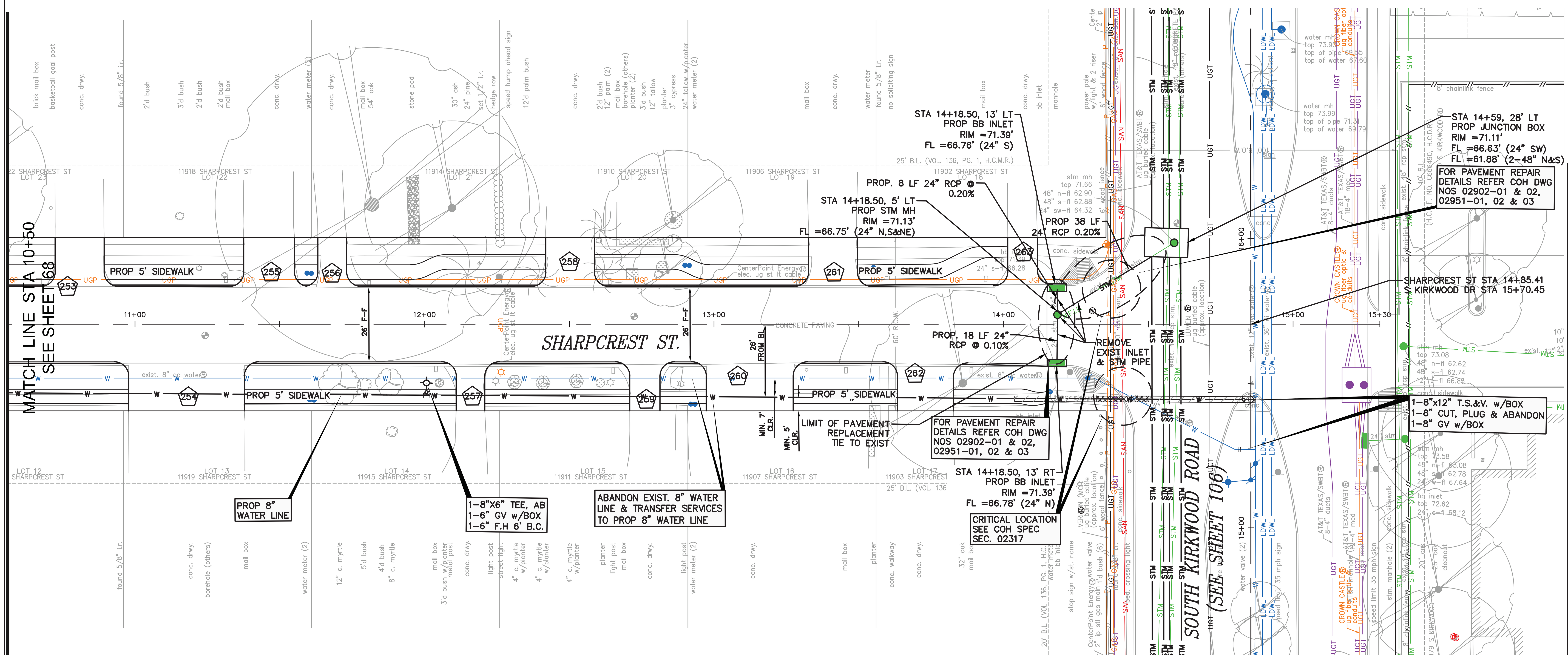
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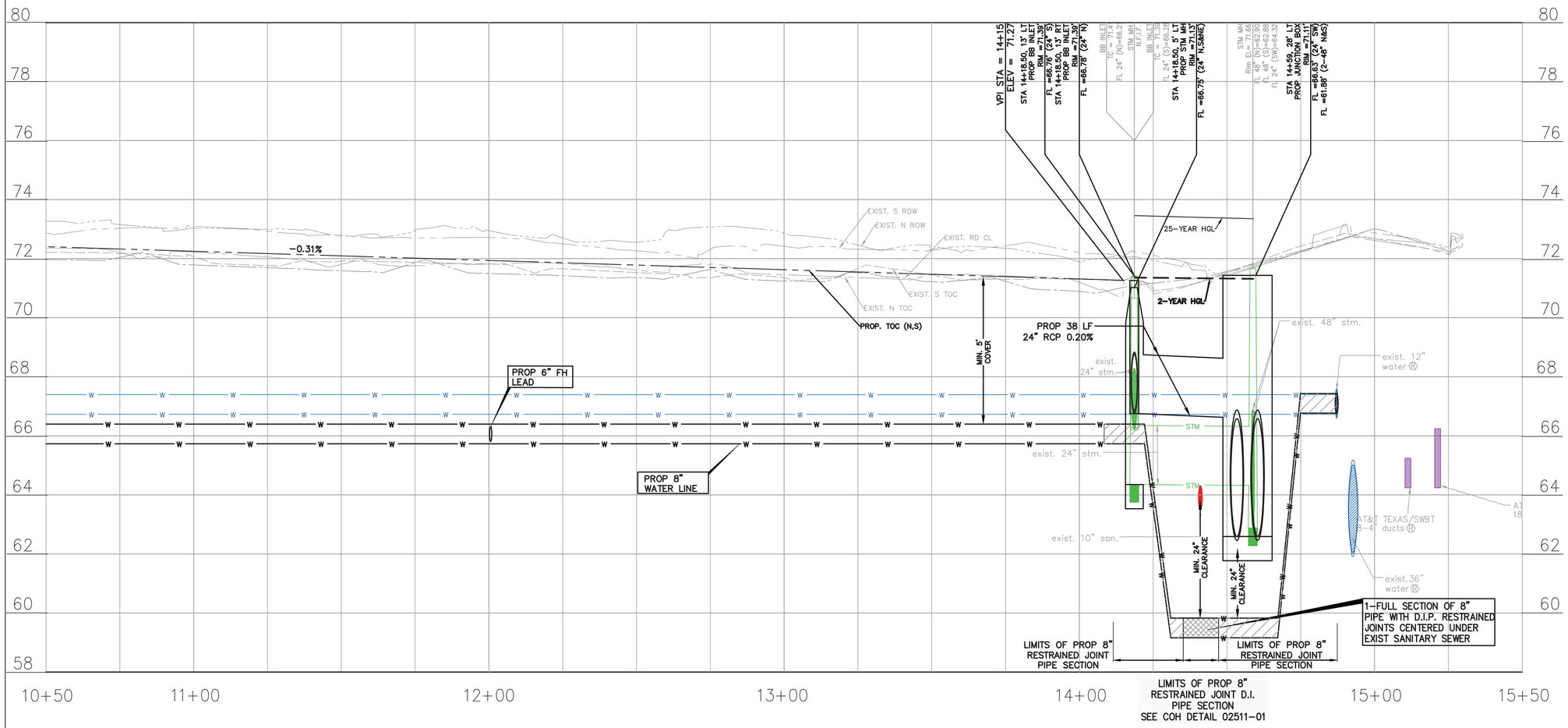
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VERIFICATION OF PRIVATE UTILITY LINES

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civil \ design \ engineers
10448 Westoffice Drive
Houston, Texas 77042
P 713 747 2399
F 713 748 3748
TBPE Firm Reg. #4575

SURVEYED BY: Kuo&Associates
FB NO. P-6382

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

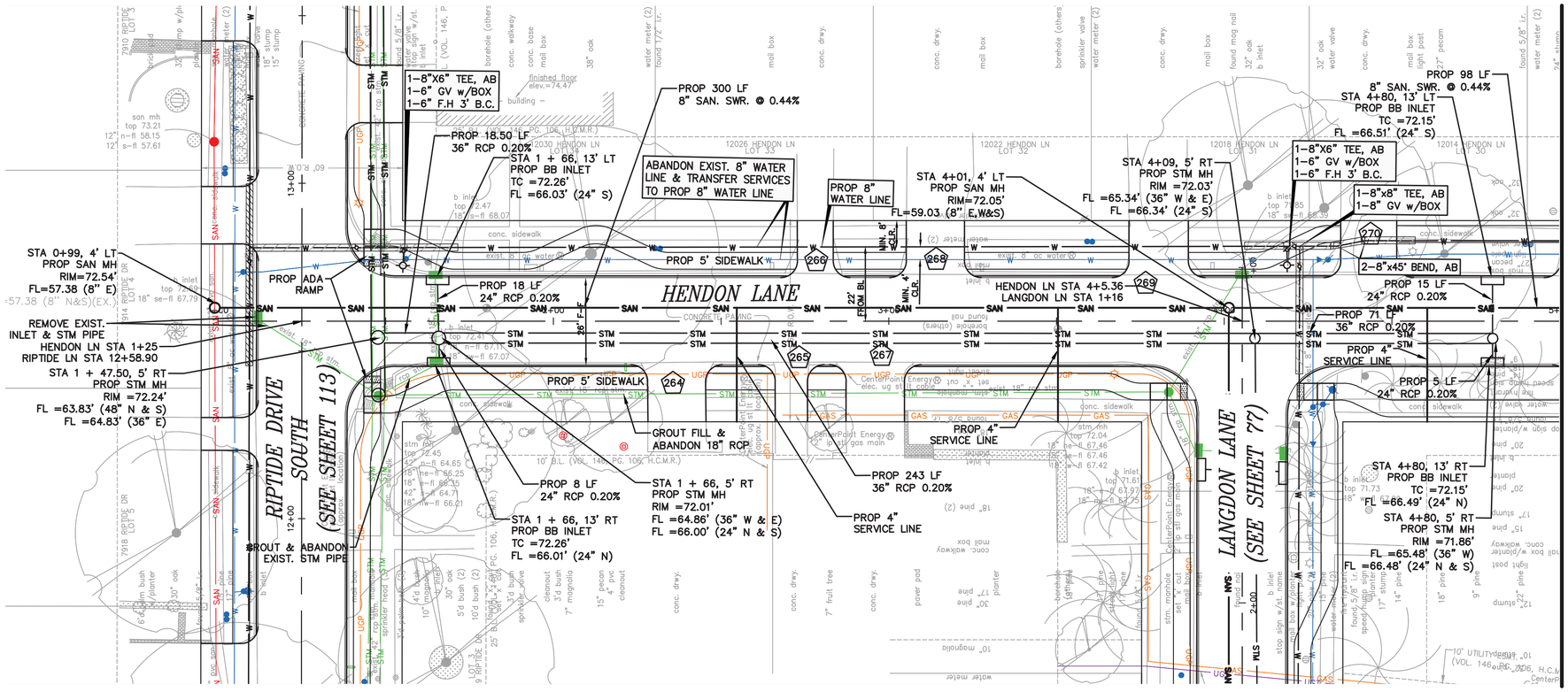
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

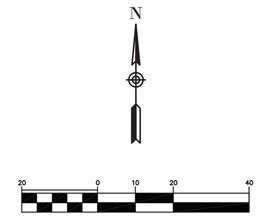
SHARPCREST STREET PROFILE STA 10+00 TO END

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 70 OF 369	

PLOTTED: 8/14/2026 3:03 AM

FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\PP Cutsheet 1.dwg





NO.	DATE	REVISION	APP.

BENCHMARK:

CITY OF HOUSTON MONUMENT 4854–8109, A BRASS DISK IN CONCRETE, LOCATED AT SOUTHWEST CORNER OF THE INTERSECTION
OF SHARPCREST LN AND RIPTIDE RD.

ELEV. 72.01 FEET NAVD 1988 (GEOID '18)*

* OBSERVED BY GPS SURVEYING AND PROCESSED IN REFERENCE TO THE CORS DATED DECEMBER 11, 2019.

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P–6382

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

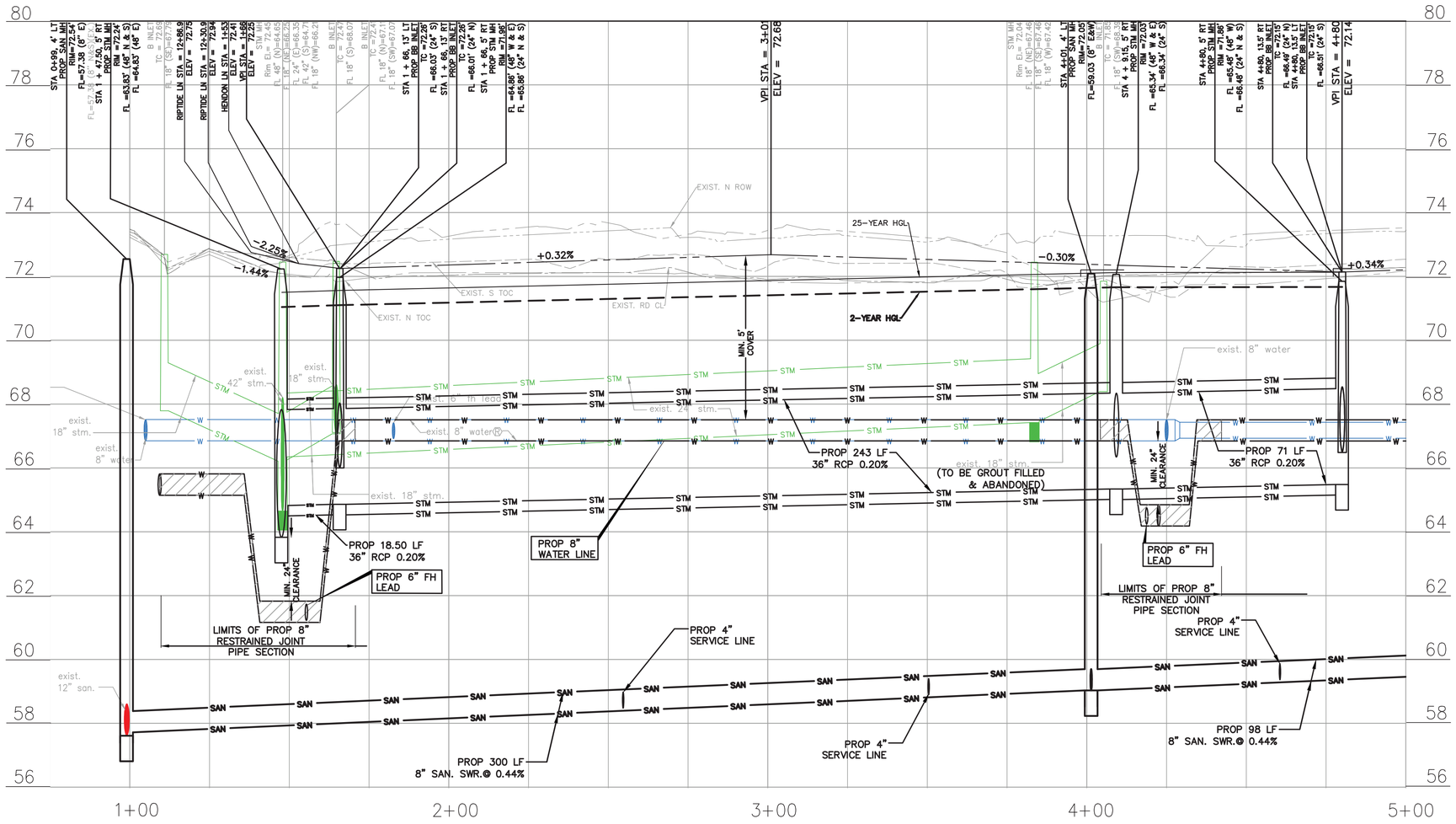
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

HENDON LANE PLAN STA 1+00 TO 5+00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 71 OF 369	

PLOTTED: 8/14/2026 3:08 AM

FILE PATH: P:\ACTIVE\118PW97 – 2024 Update\Ph II\Working\CAD\PP Cutsheet 1.dwg



NO.	DATE	REVISION	APP.

20 0 10 20 40

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
1" = 2'-0" FEET V FOR 22"X34" SHEET

BENCHMARK:

CITY OF HOUSTON MONUMENT 4854-8109, A BRASS DISK IN CONCRETE, LOCATED AT SOUTHWEST CORNER OF THE INTERSECTION
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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P-6382

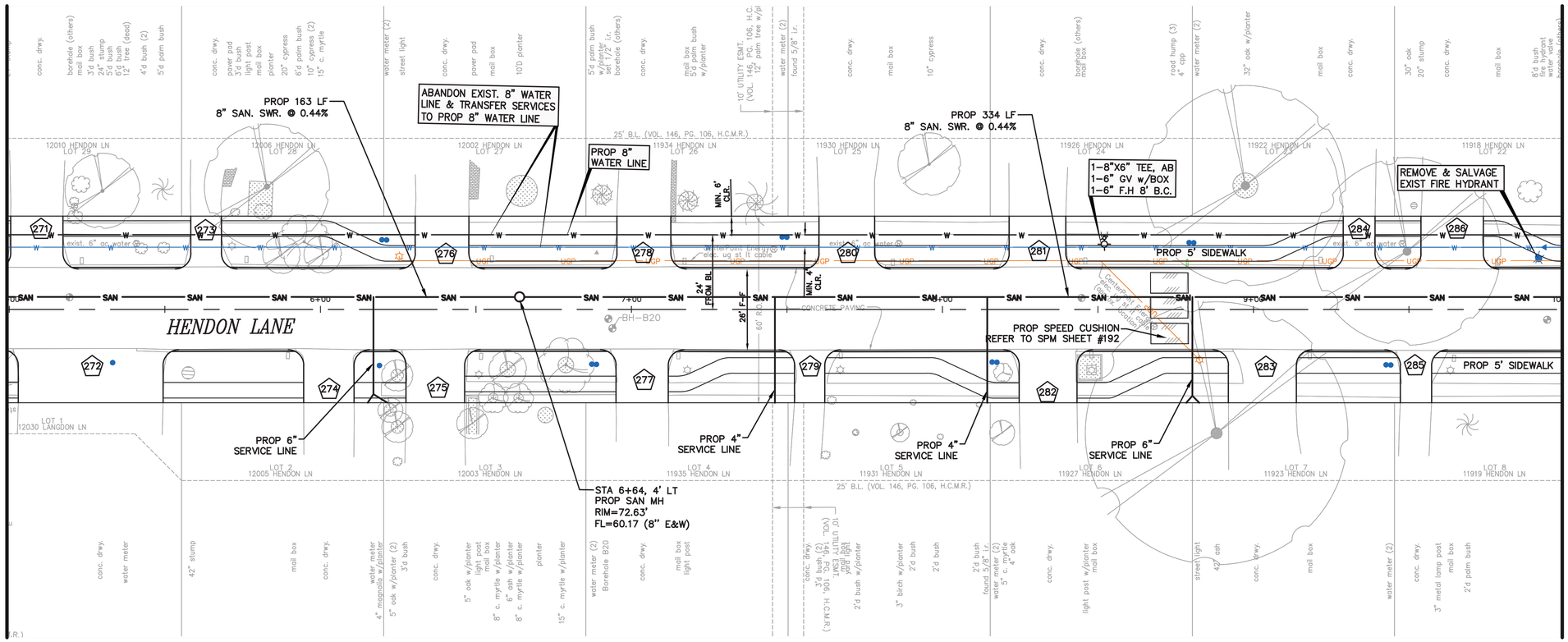
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

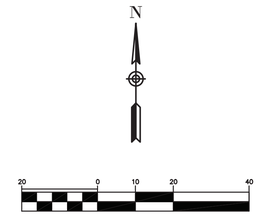
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

HENDON LANE PROFILE
STA 1+00 TO 5+00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 72 OF 369	

PLOTTED: 8/14/2026 3:14 AM
FILE PATH: P:\ACTIVE\18Pvg97 - 2024 Update\Ph II\Working\CAD\PP Cutsheet 1.dwg





NO.	DATE	REVISION	APP.

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Houston, Texas 77042
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TBPE Firm Reg. #4575

SURVEYED BY: Kuo&Associates
FB NO. P-6382

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

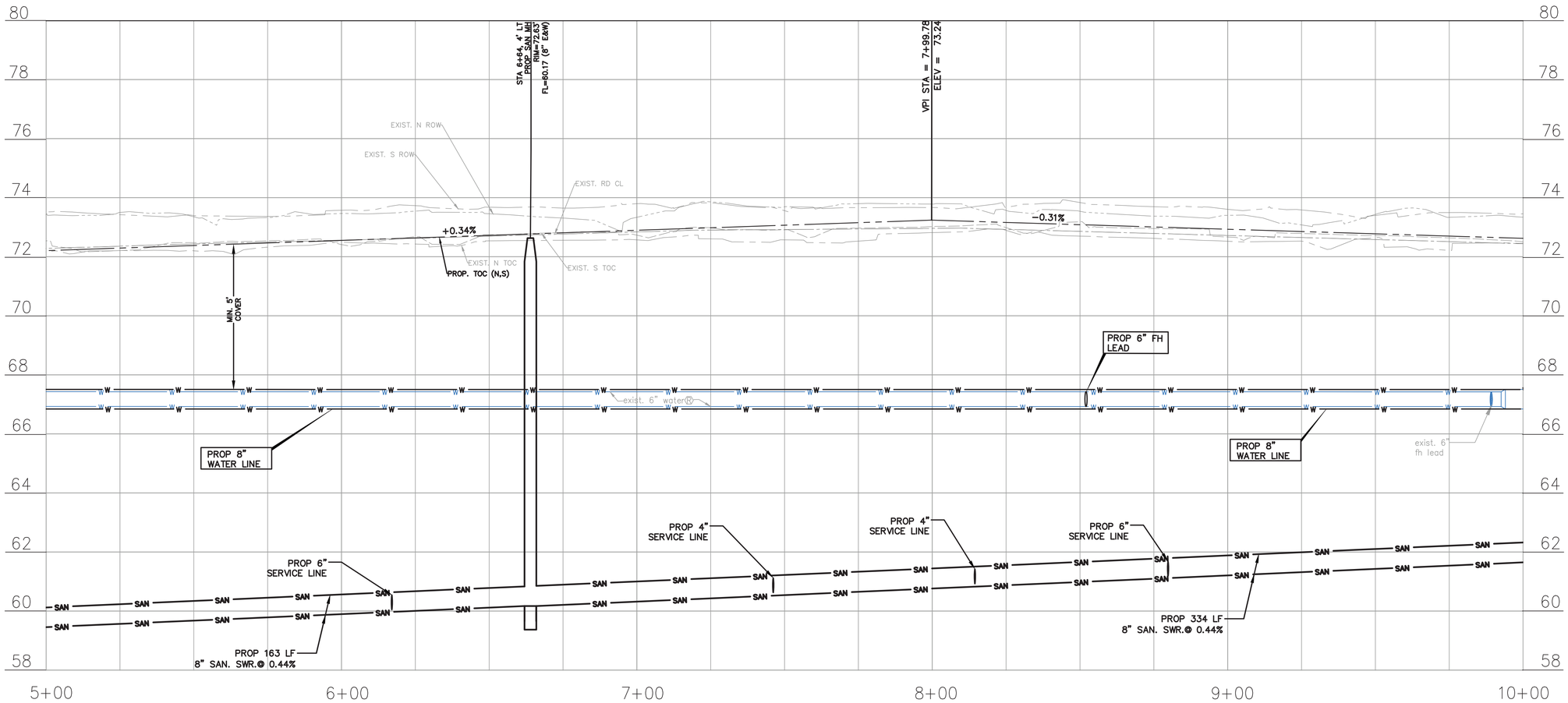
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

HENDON LANE PLAN STA 5+00 TO 10+00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 73 OF 369	

PLOTTED: 8/14/2026 3:19 AM
FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\PP Cutsheet 1.dwg



20 0 10 20 40

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
1" = 2'-0" FEET V FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.

BENCHMARK:

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P-6382

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

HENDON LANE PROFILE
STA 5+00 TO 10+00

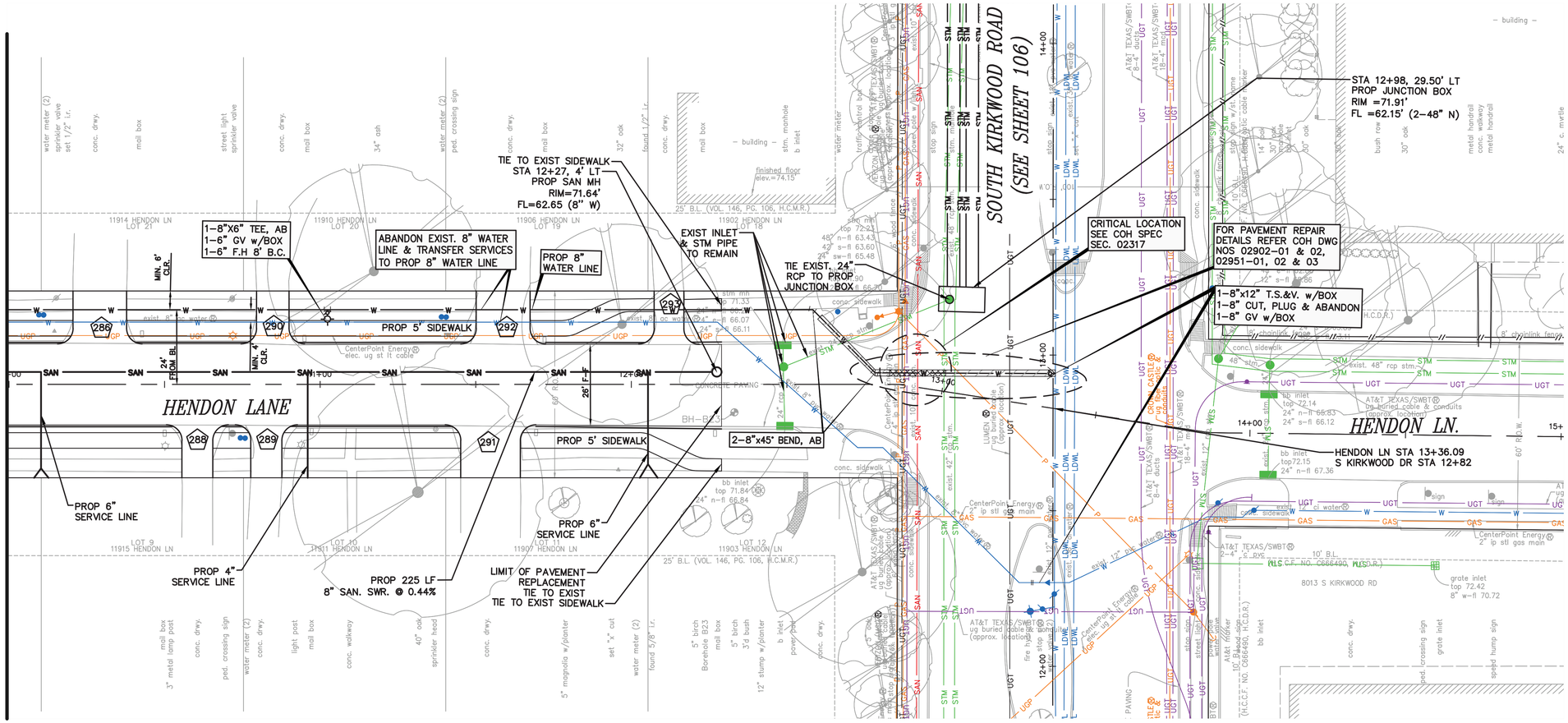
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 74 OF 369	

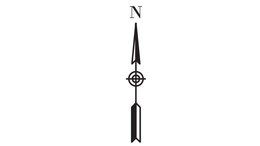
PLOTTED: 8/14/2026 3:24 AM

FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\PP Cutsheet 1.dwg

PLOTTED: 8/14/2026 3:29 AM

MATCH LINE STA 10+00
SEE SHEET 73





SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
1" = 2'-0" FEET V FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

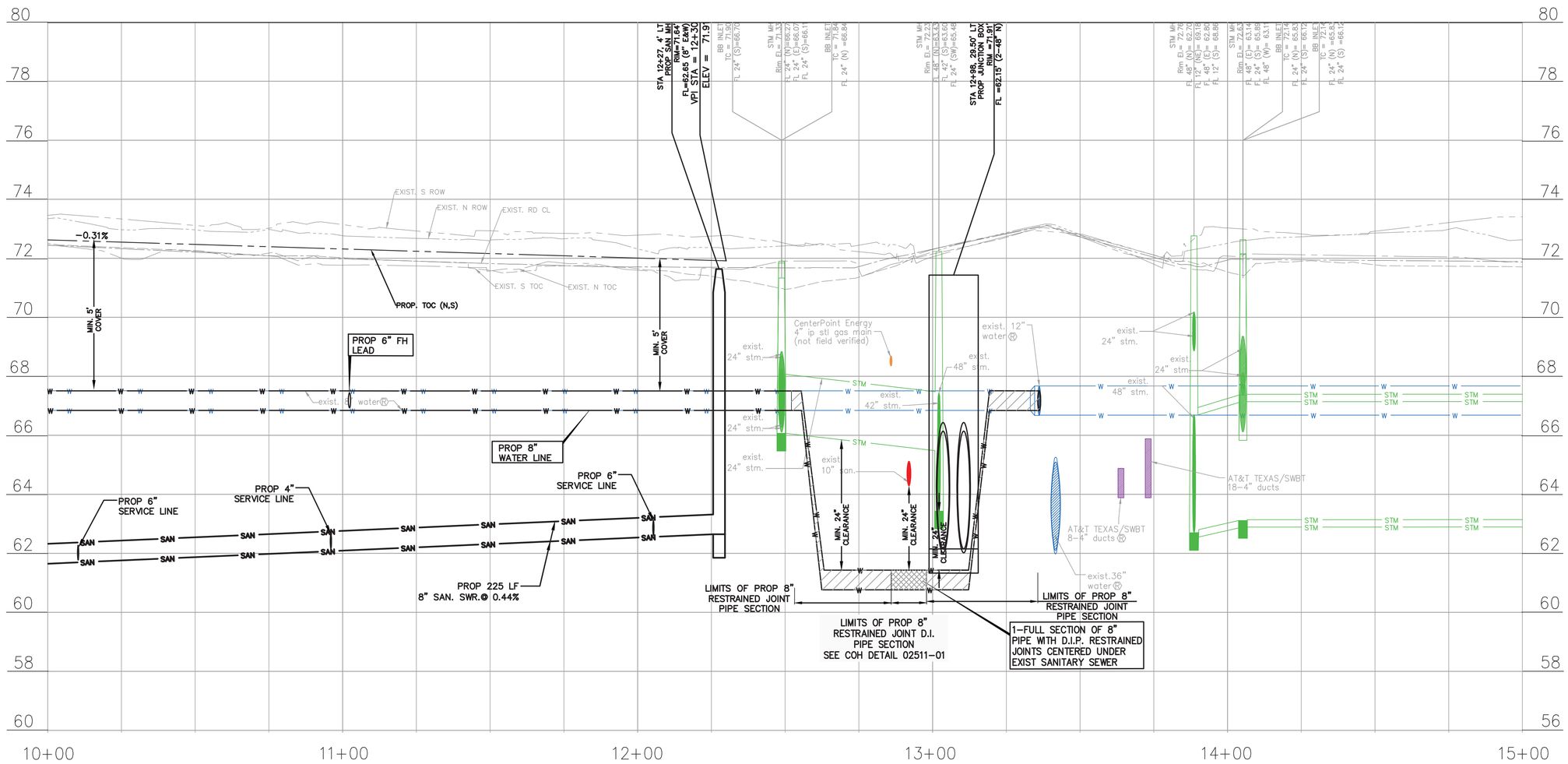
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

HENDON LANE PLAN STA 10+00 TO END

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 30 OF 369	

FILE PATH: P:\ACTIVE\18PW97 – 2024 Update\Ph II\Working\CAD\PP Cutsheet 1.dwg

PLOTTED: 8/14/2026 3:35 AM



NO.	DATE	REVISION	APP.

20 0 10 20 40

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
1" = 2'-0" FEET V FOR 22"X34" SHEET

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P-6382

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

HENDON LANE PROFILE
STA 10+00 TO 15+00

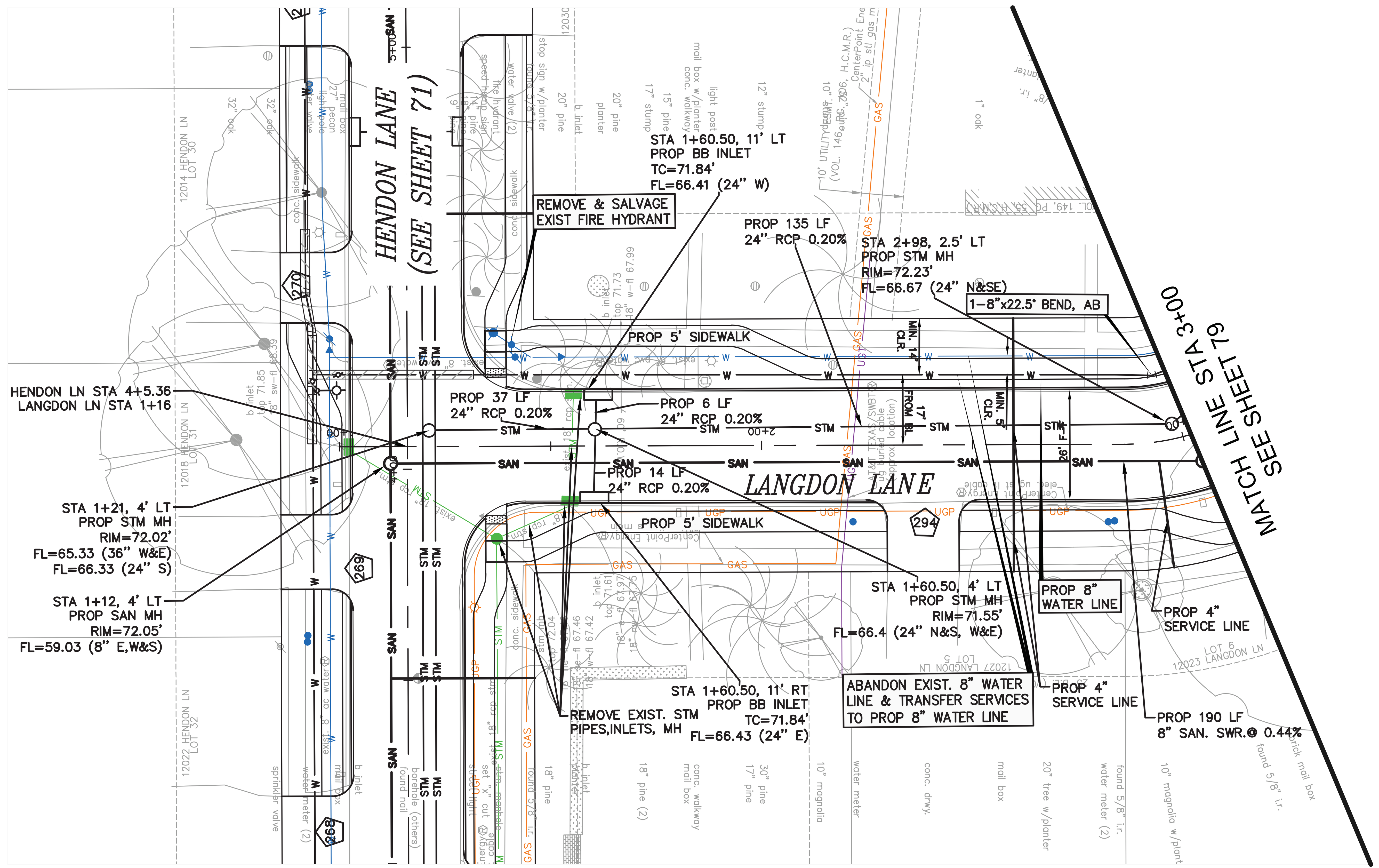
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 76 OF 369	

FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\PP Cutsheet 1.dwg

PLOTTED: 8/14/2026 3:40 AM
FILE PATH: P:\ACTIVE\18PV97 - 2024 Update\Ph II\Working\CAD\PP Cutsheet 1.dwg

NO.	DATE	REVISION	APP.

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
1" = 2'-0" FEET V FOR 22"X34" SHEET



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ENGINEER: RAHUL B MENON, P.E
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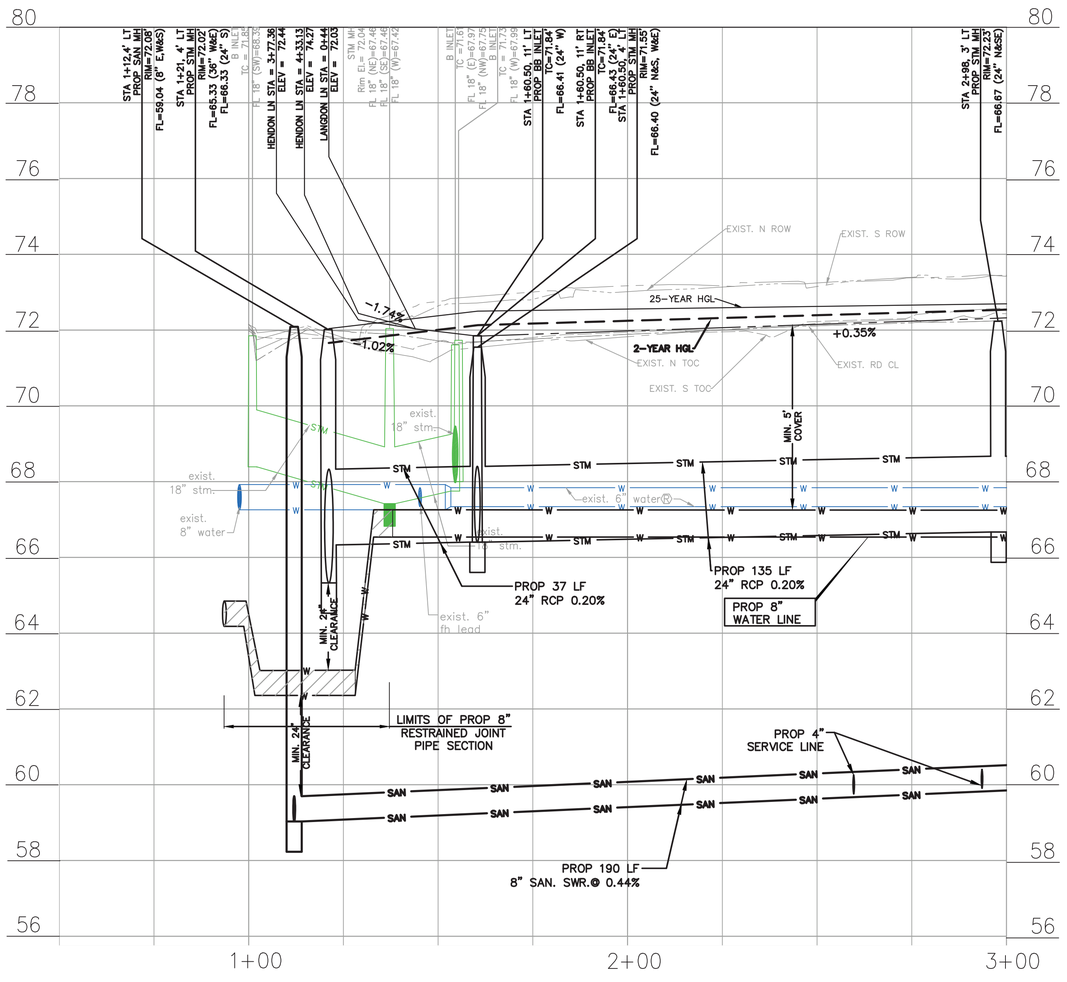
SURVEYED BY: Kuo&Associates
FB NO. P-6382

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

LANGDON LANE PLAN
STA 1+00 TO 3+00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 77 OF 369	



PLOTTED: 8/14/2026 3:45 AM

FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\PP Cutsheet 1.dwg

NO.	DATE	REVISION	APP.

20 0 10 20 40

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
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Houston, Texas 77042
P 713 747 2399
F 713 748 3748
TBPE Firm Reg. #4575

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BIDDING OR CONSTRUCTION
ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P-6382

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

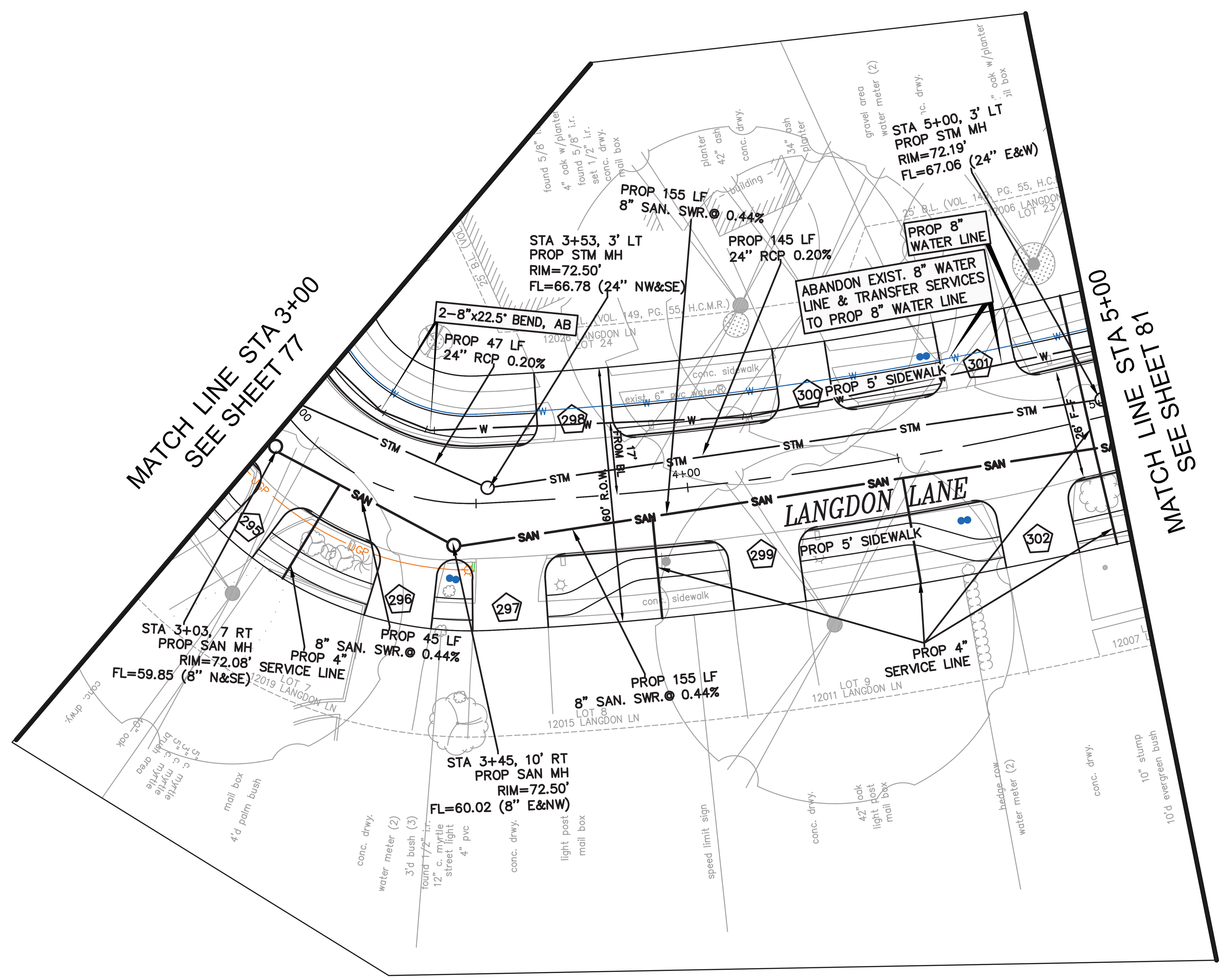
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

LANGDON LANE PROFILE STA 1+00 TO 3+00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 78 OF 369	

PLOTTED: 8/14/2026 3:51 AM

FILE PATH: P:\ACTIVE\18PV97 – 2024 Update\Ph II\Working\CAD\PP Cutsheet 1.dwg



N

SCALE: 1" = 20'–0" FEET H FOR 22"X34" SHEET
1" = 2'–0" FEET V FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.

BENCHMARK:

CITY OF HOUSTON MONUMENT 4854–8109, A BRASS DISK IN CONCRETE, LOCATED AT SOUTHWEST CORNER OF THE INTERSECTION OF SHARPCREST LN AND RIPTIDE RD.

ELEV. 72.01 FEET NAVD 1988 (GEOID '18)*

* OBSERVED BY GPS SURVEYING AND PROCESSED IN REFERENCE TO THE CORS DATED DECEMBER 11, 2019.

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VERIFICATION OF PRIVATE UTILITY LINES

Date

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Signature valid for six months.

Date

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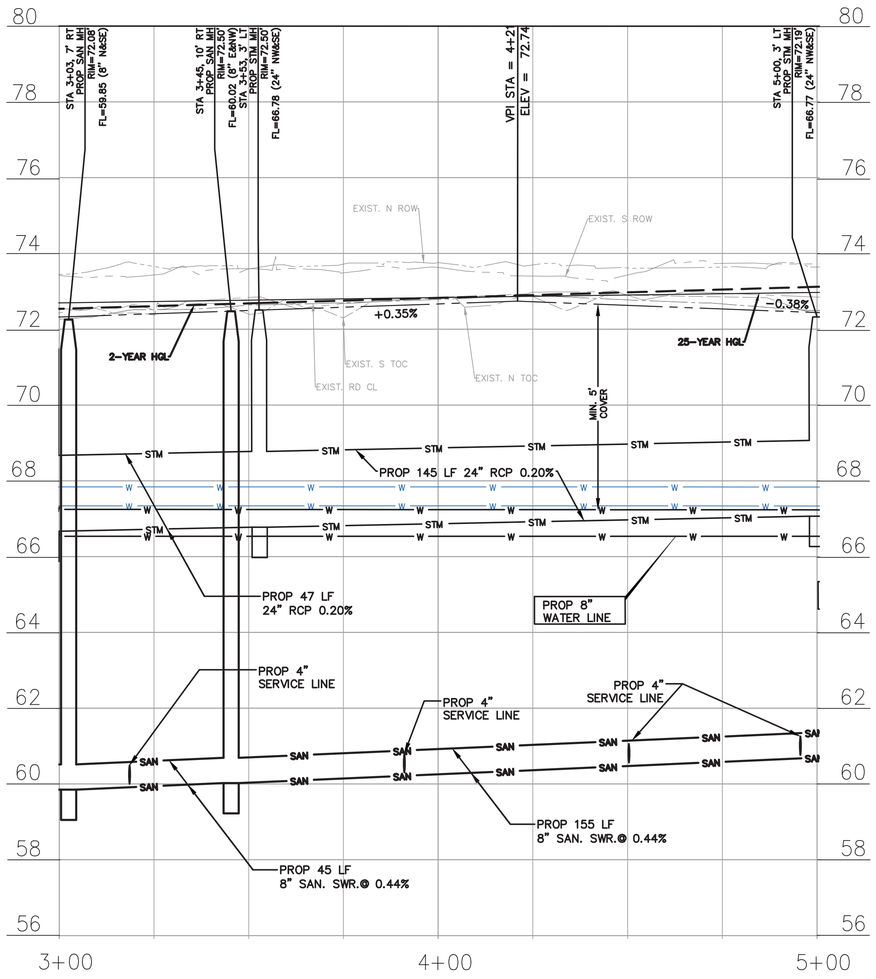
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P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

LANGDON LANE
PLAN
STA 3+00 TO 5+00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 79 OF 369	



NO.	DATE	REVISION	APP.

20 0 10 20 40

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
1" = 2'-0" FEET V FOR 22"X34" SHEET

BENCHMARK:

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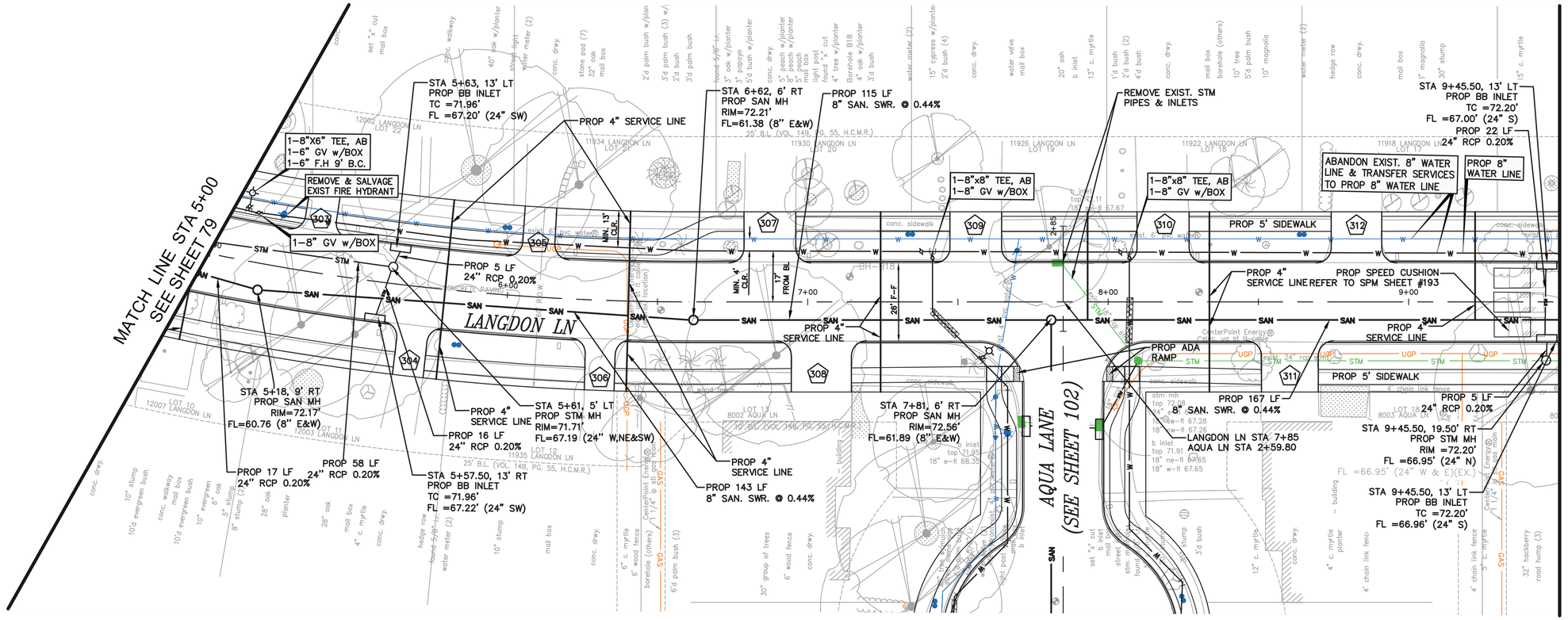
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

LANGDON LANE
PROFILE
STA 3+00 TO 5+00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 80 OF 369	

PLOTTED: 8/14/2026 3:56 AM
FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\PP Cutsheet 1.dwg



N

20 0 10 20 40

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
1" = 2'-0" FEET V FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.

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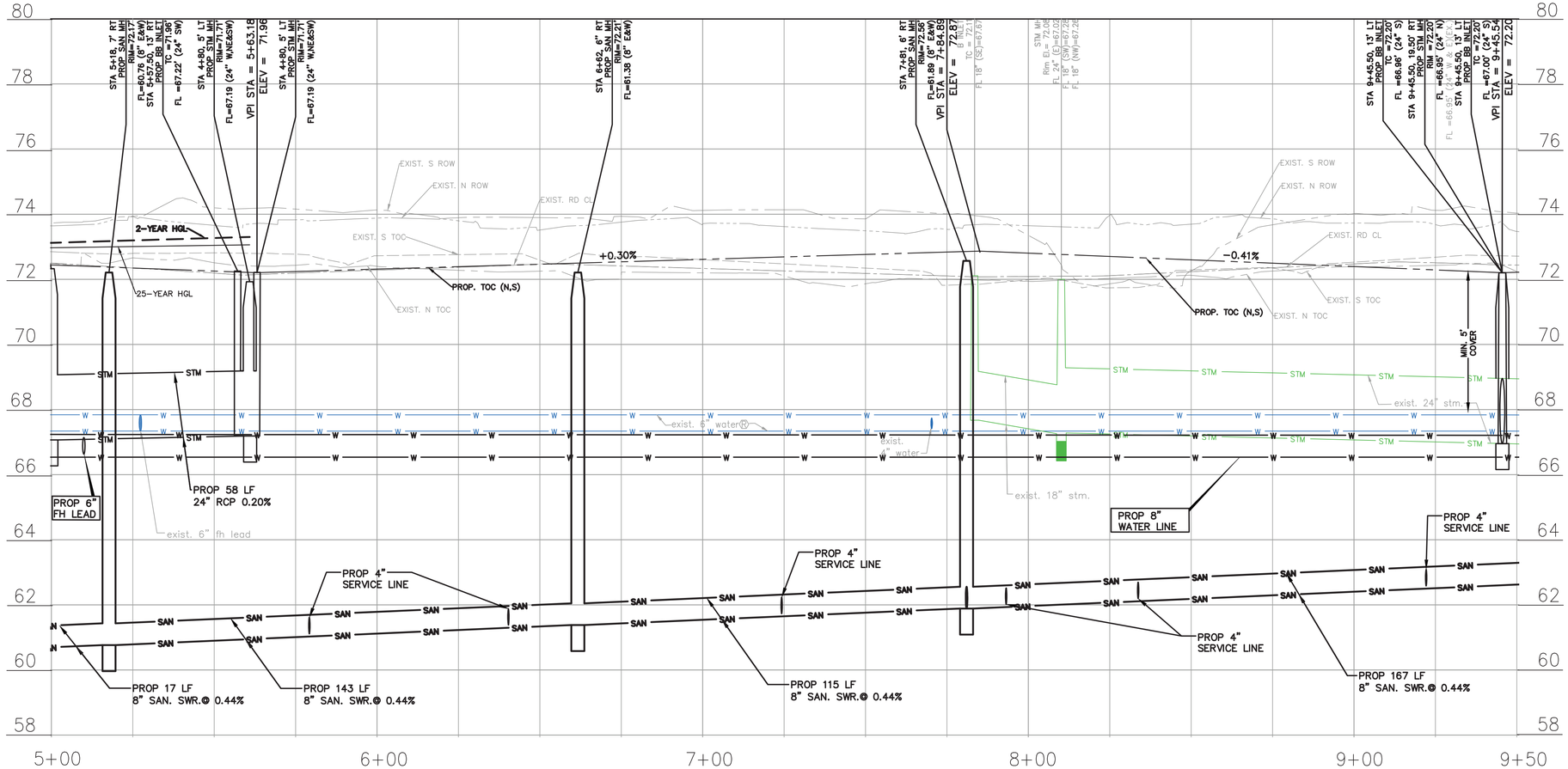
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

LANGDON LANE
PLAN
STA 5+00 TO 9+50

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 81 OF 369	

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NO.	DATE	REVISION	APP.

20 0 10 20 40

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ENGINEER: RAHUL B MENON, P.E
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

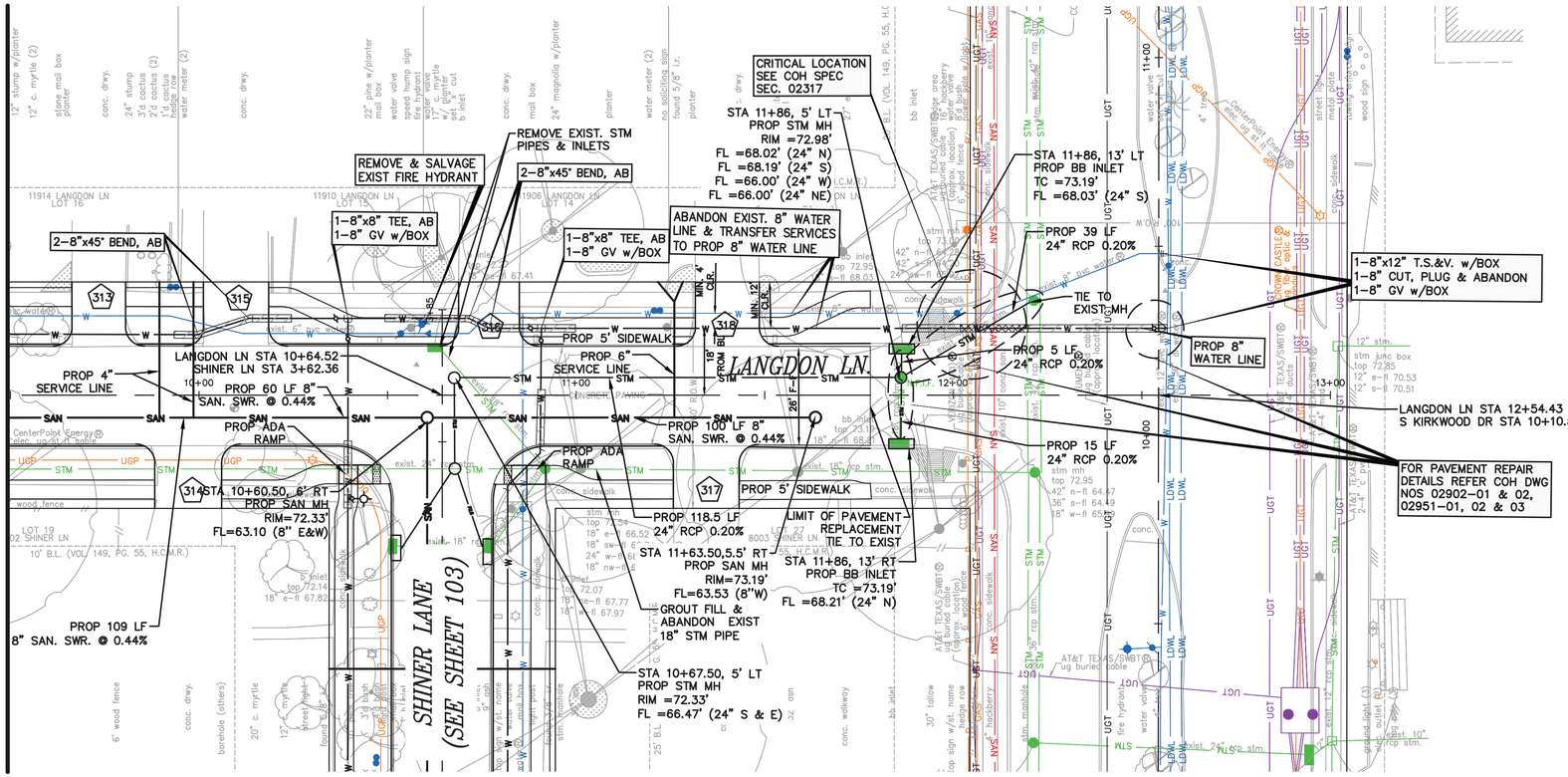
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

LANGDON LANE
PROFILE
STA 5+00 TO 9+50

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 82 OF 369	

PLOTTED: 8/14/2026 4:06 AM
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PLOTTED: 8/14/2026 4:12 AM



FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\PP Cutsheet 1.dwg

N

20 0 10 20 40

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
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NO.	DATE	REVISION	APP.

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ENGINEER: RAHUL B MENON, P.E
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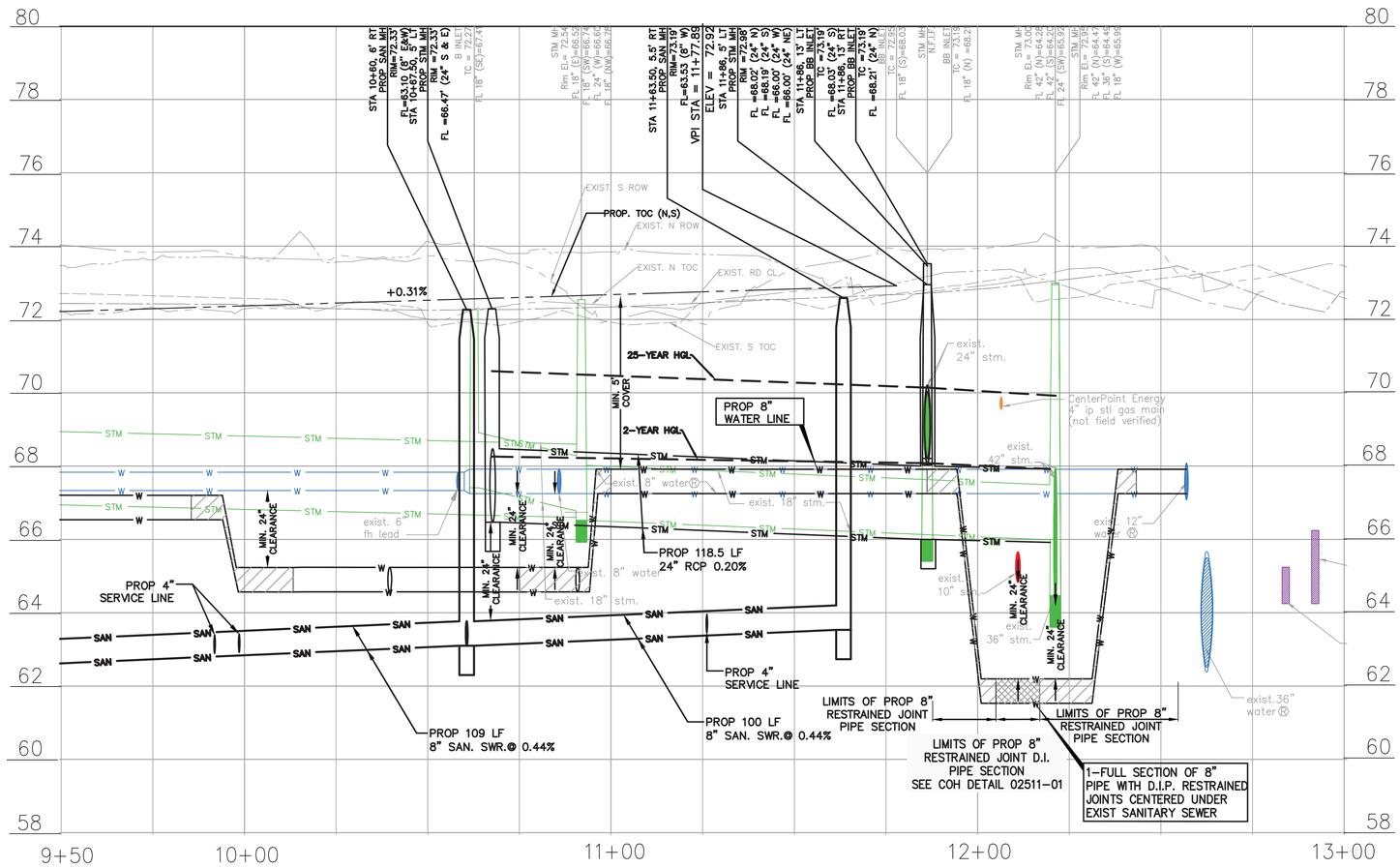
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

LANGDON LANE
PLAN
STA 9+50 TO END

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 83 OF 369	



NO.	DATE	REVISION	APP.

20 0 10 20 40

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
1" = 2'-0" FEET V FOR 22"X34" SHEET

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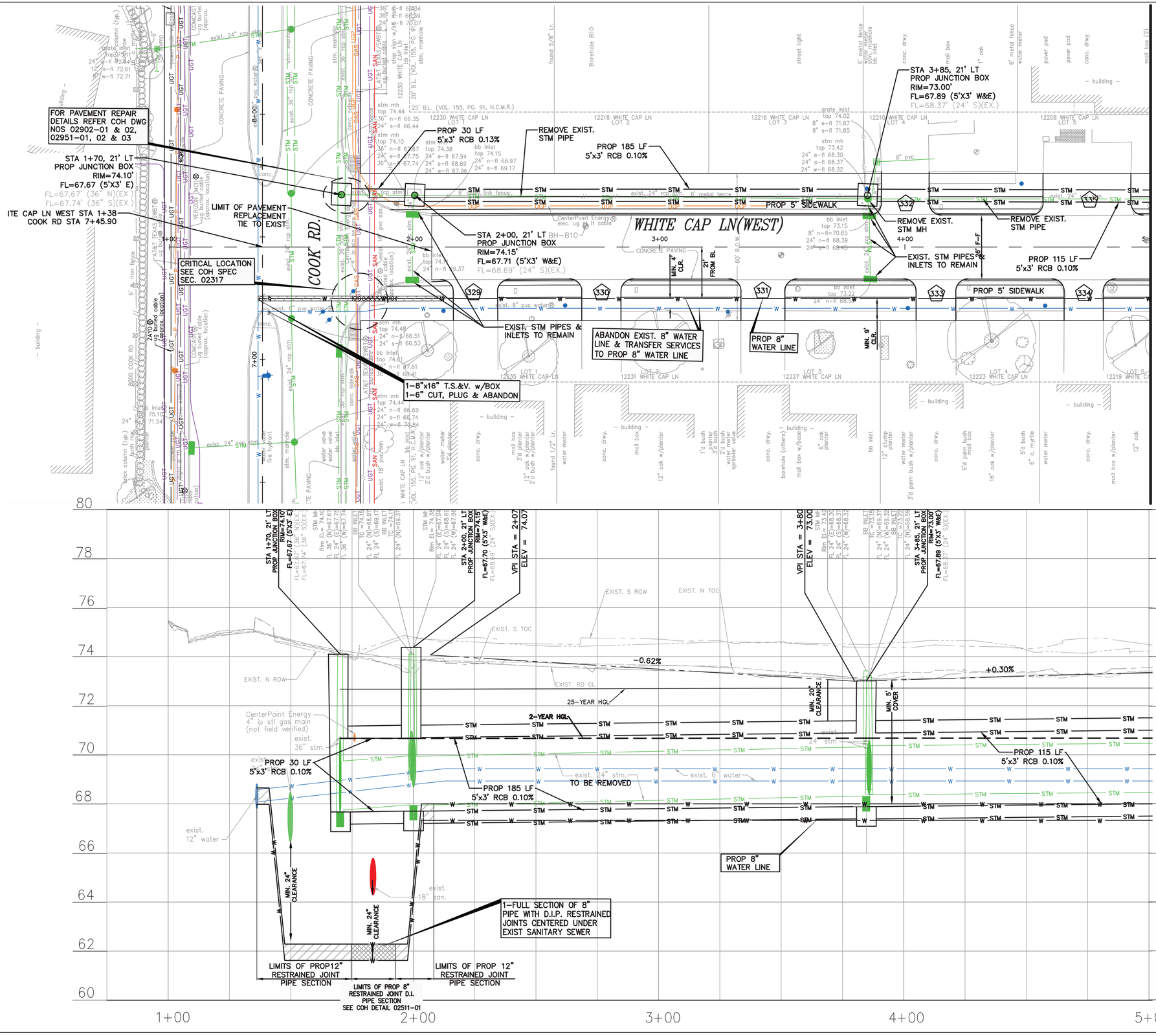
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LANGDON LANE
PROFILE
STA 9+50 TO END

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 84 OF 369	

PLOTTED: 8/14/2026 4:17 AM
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PLOTTED: 8/14/2026 4:27 AM

FILE PATH: P:\ACTIVE\18Proj97 - 2024 Update\Ph II\Working\CAD\PP Cutsheet 1.dwg

NO.	DATE	REVISION	APP.

N

20 0 10 20 40

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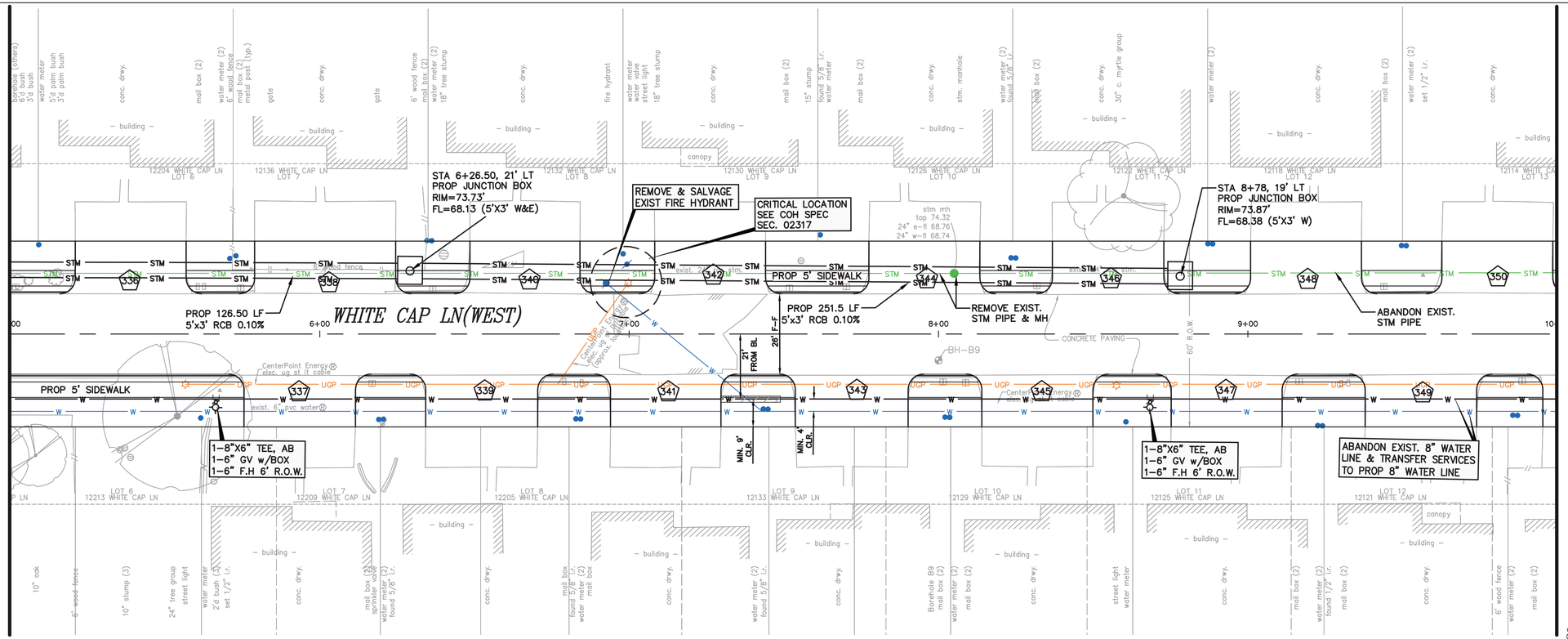
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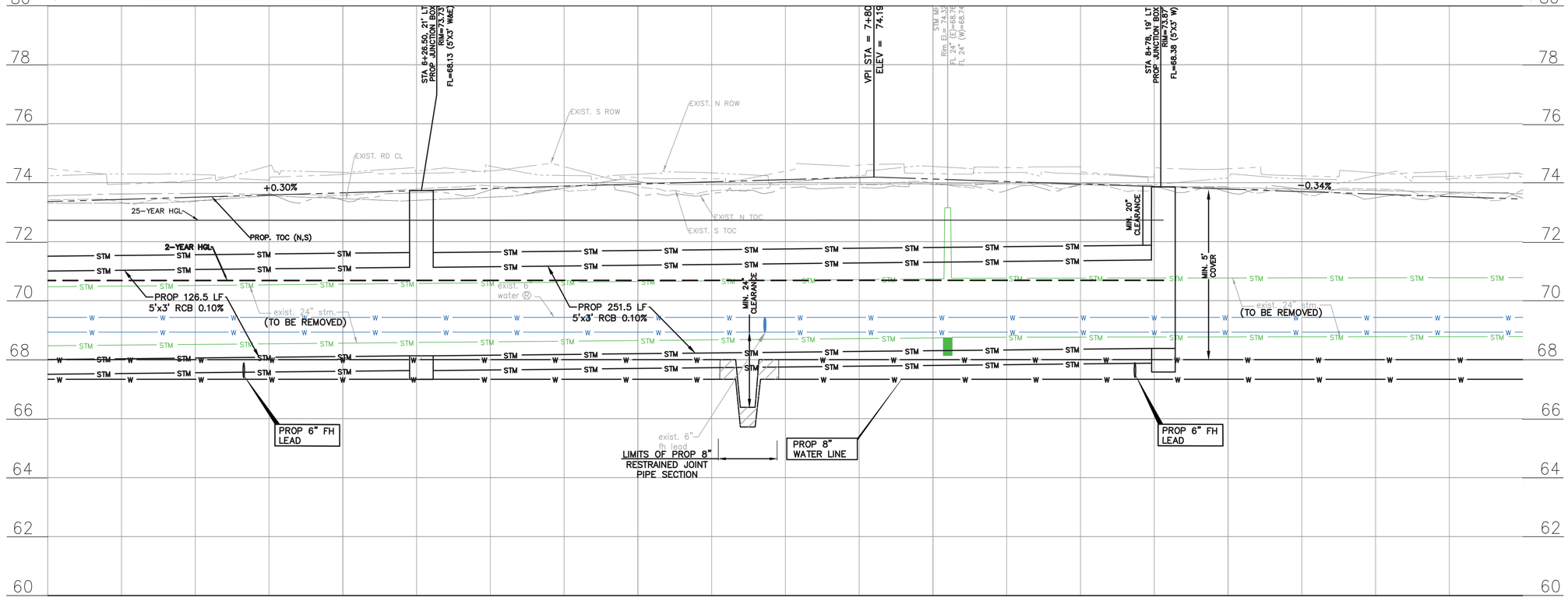
WHITE CAP LANE (WEST) PLAN & PROFILE STA 1+00 TO 5+00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 85 OF 369	

PLOTTED: 8/14/2026 4:35 AM

MATCH LINE STA 5+00
SEE SHEET 85





MATCH LINE STA 10+00
SEE SHEET 47

N

20 0 10 20 40

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
1" = 2'-0" FEET V FOR 22"X34" SHEET

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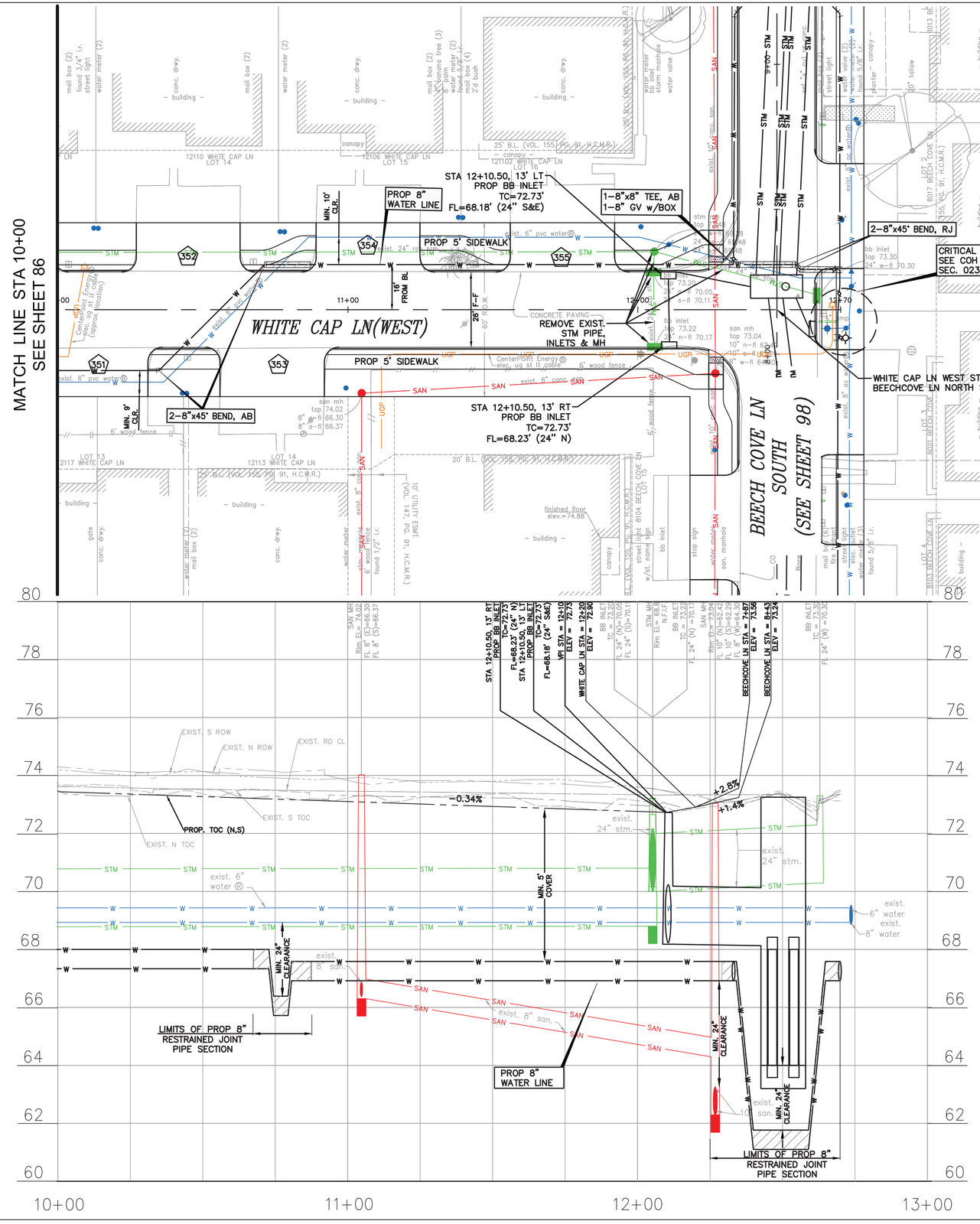
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WHITE CAP LANE (WEST)
PLAN & PROFILE
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CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 37 OF 369	

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PLOTTED: 8/14/2026 4:45 AM



FILE PATH: P:\ACTIVE\18Proj97 - 2024 Update\Ph II\Working\CAD\PP Cutsheet 1.dwg

NO.	DATE	REVISION	APP.

N

20 0 10 20 40

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
1" = 2'-0" FEET V FOR 22"X34" SHEET

BENCHMARK:

CITY OF HOUSTON MONUMENT 4854-8109, A BRASS DISK IN CONCRETE, LOCATED AT SOUTHWEST CORNER OF THE INTERSECTION OF SHARPCREST LN AND RIPTIDE RD.

ELEV. 72.01 FEET NAVD 1988 (GEOID '18)*

* OBSERVED BY GPS SURVEYING AND PROCESSED IN REFERENCE TO THE CORS DATED DECEMBER 11, 2019.

VERTICAL DATUM ADJUSTMENT:

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VERIFICATION OF PRIVATE UTILITY LINES

Date

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Signature valid for six months.

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ISANI
civil \ design \ engineers
10448 Westoffice Drive
Houston, Texas 77042
P 713 747 2399
F 713 748 3748
TBPE Firm Reg. #4575

INTERIM REVIEW ONLY
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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

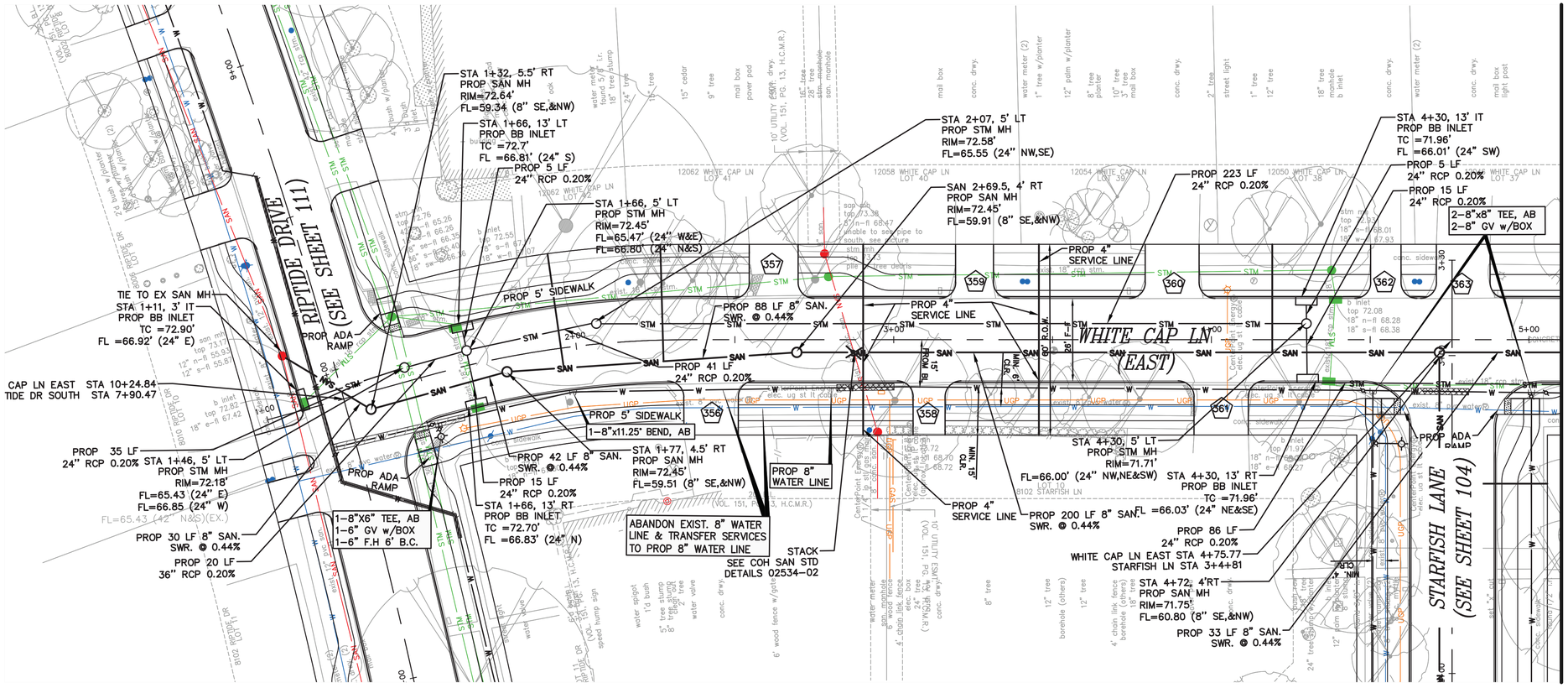
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FB NO. P-6382

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

WHITE CAP LANE (WEST) PLAN & PROFILE STA 10+00 TO END

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 87 OF 369	



N

20 0 10 20 40

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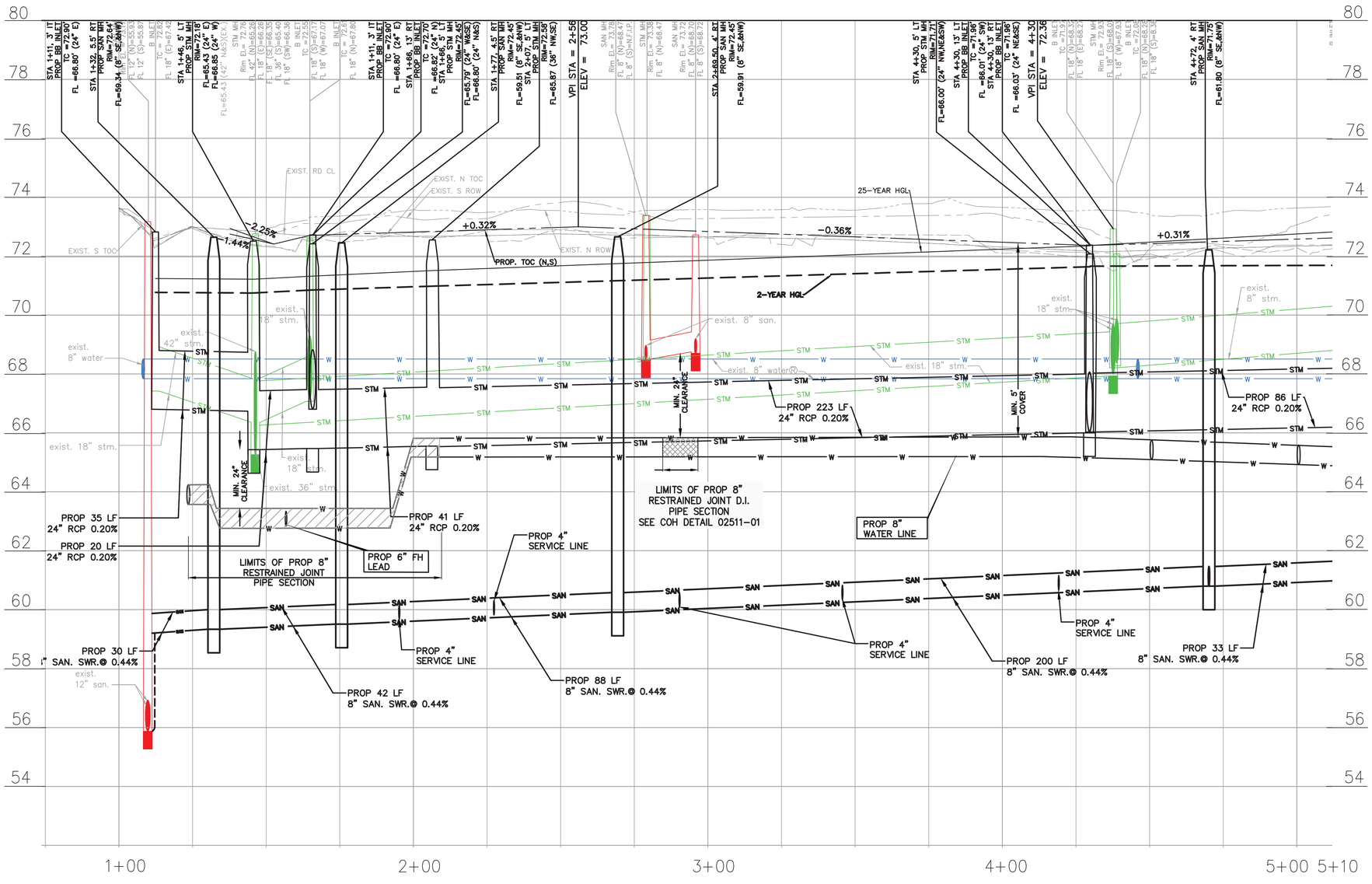
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WHITE CAP LANE (EAST) PLAN STA 1+00 TO 5+10

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 88 OF 369	

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20 0 10 20 40

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FB NO. P-6382

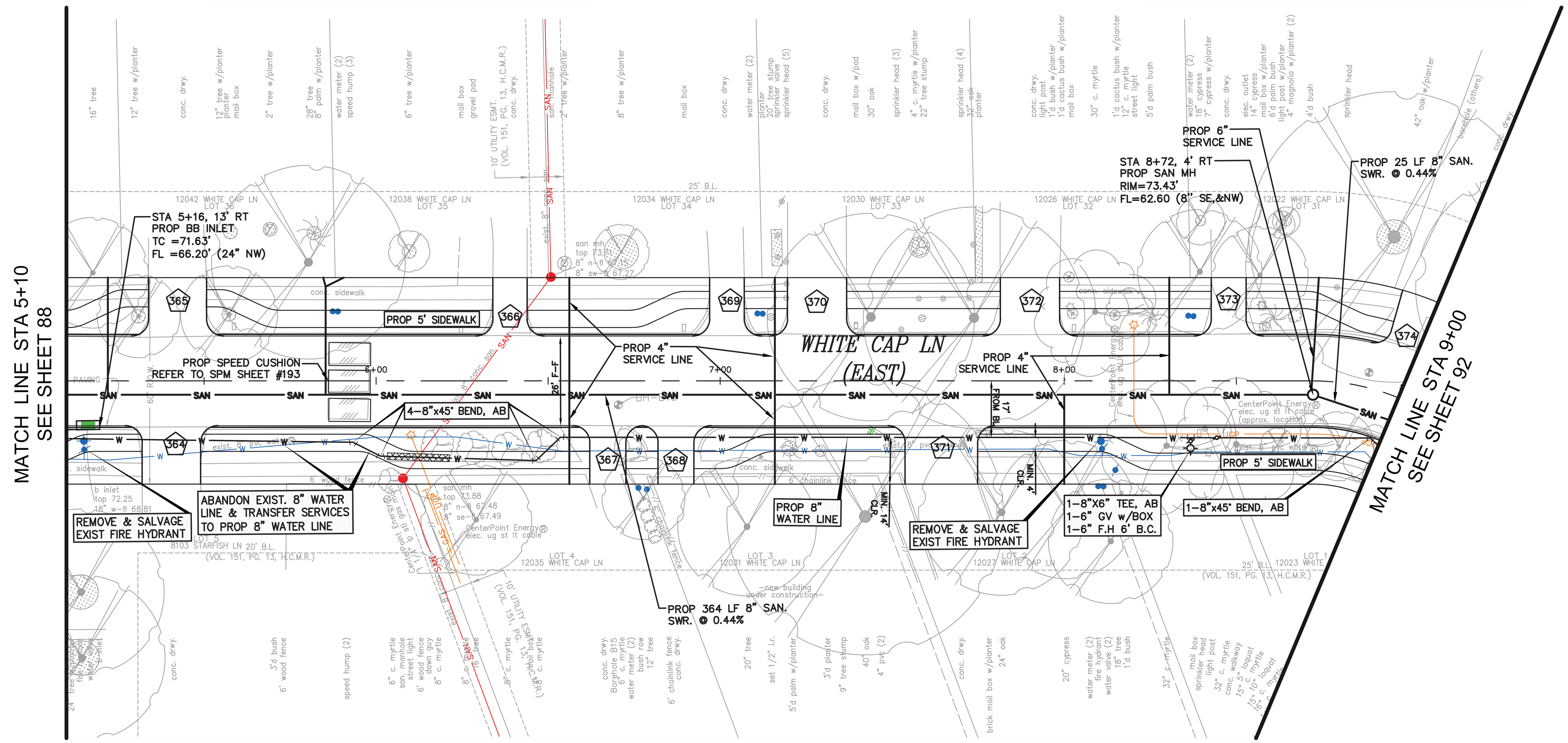
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HOUSTON PUBLIC WORKS

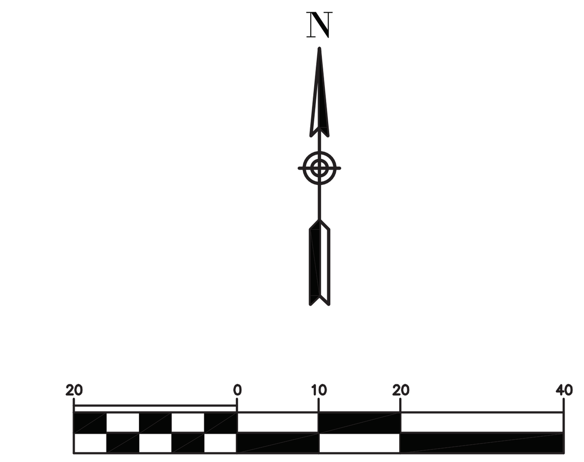
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

WHITE CAP LANE (EAST) PROFILE STA 1+00 TO 5+00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 89 OF 369	

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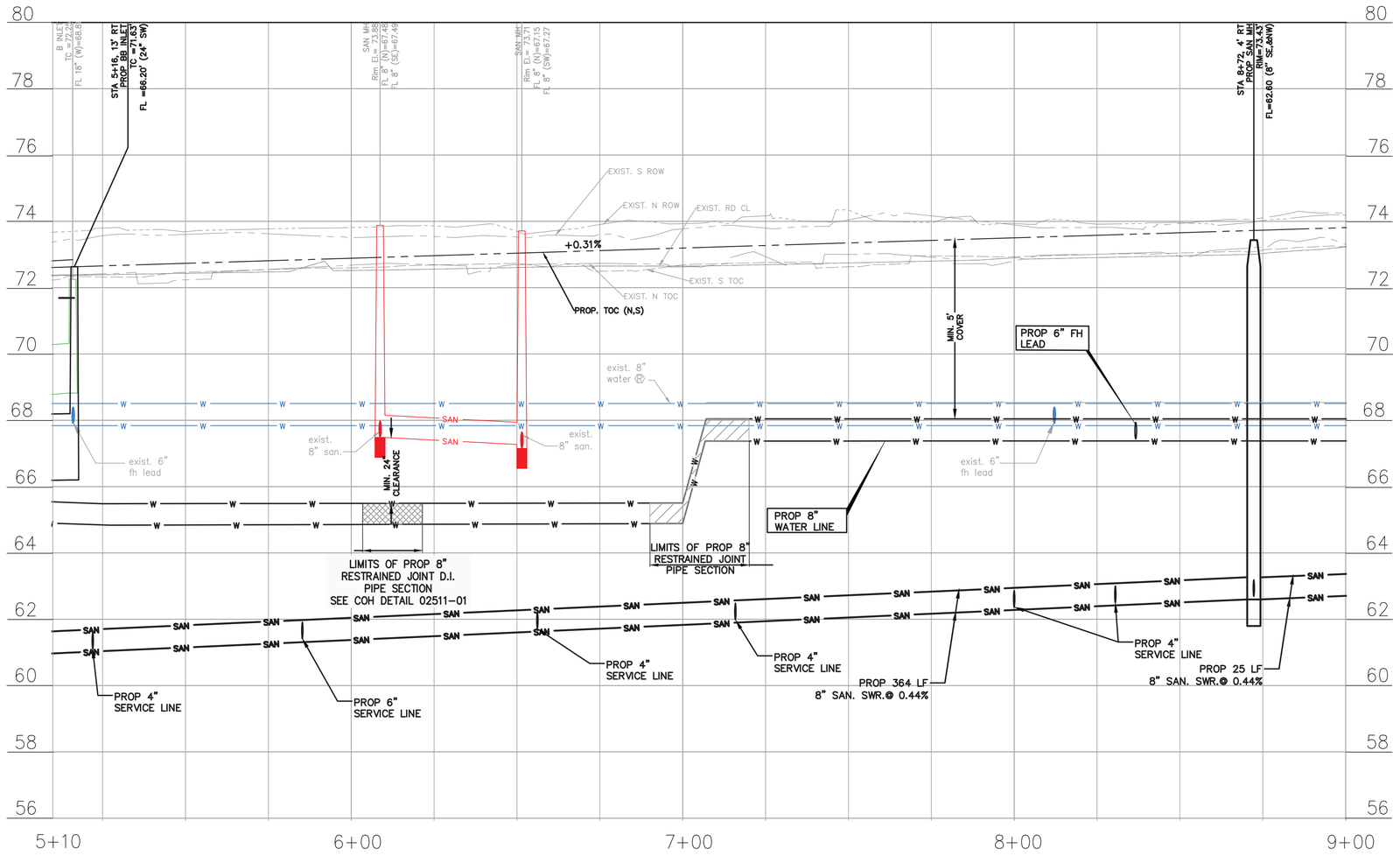
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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

WHITE CAP LANE (EAST)
PLAN
STA 5+10 TO 9+00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 90 OF 369	



20 0 10 20 40

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ENGINEER: RAHUL R MENON, P.E
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DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P-6382

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

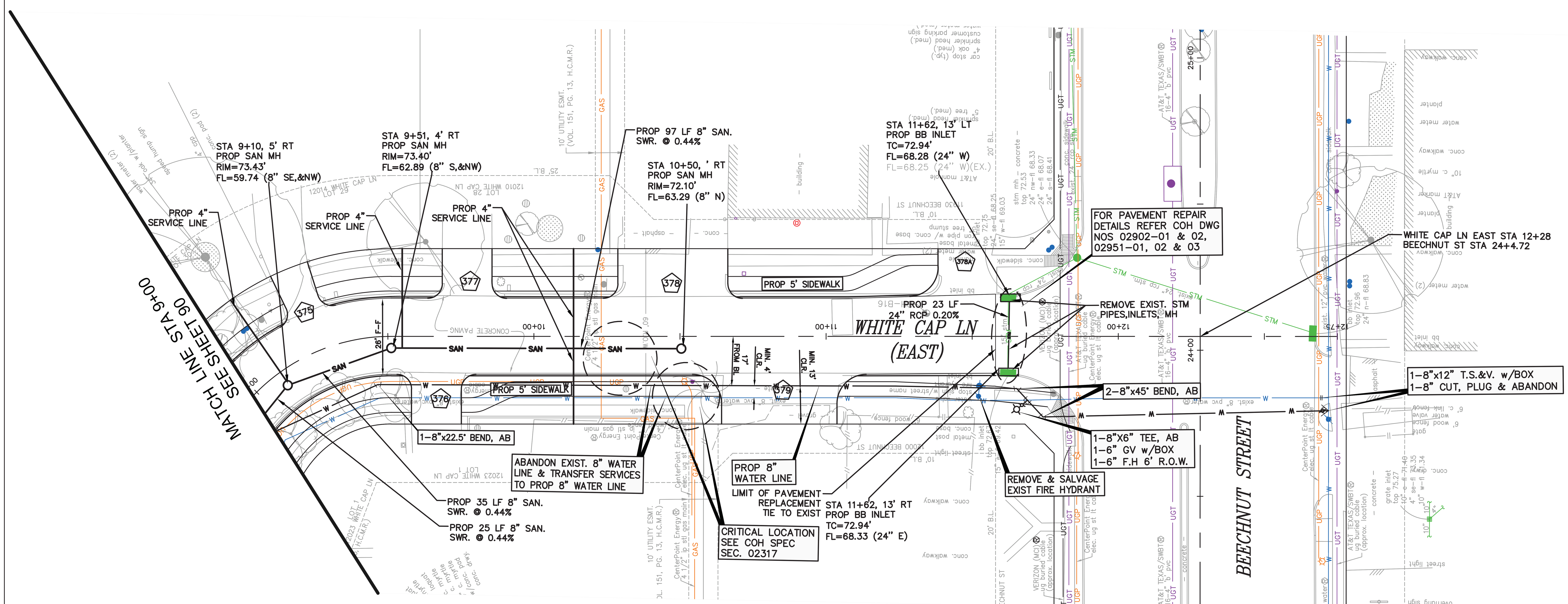
WHITE CAP LANE (EAST)
PROFILE
STA 5+10 TO 9+00

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CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 91 OF 369	

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PLOTTED: 8/14/2026 5:10 AM
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NO.	DATE	REVISION	APP.



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ENGINEER: RAHUL B MENON, P.E
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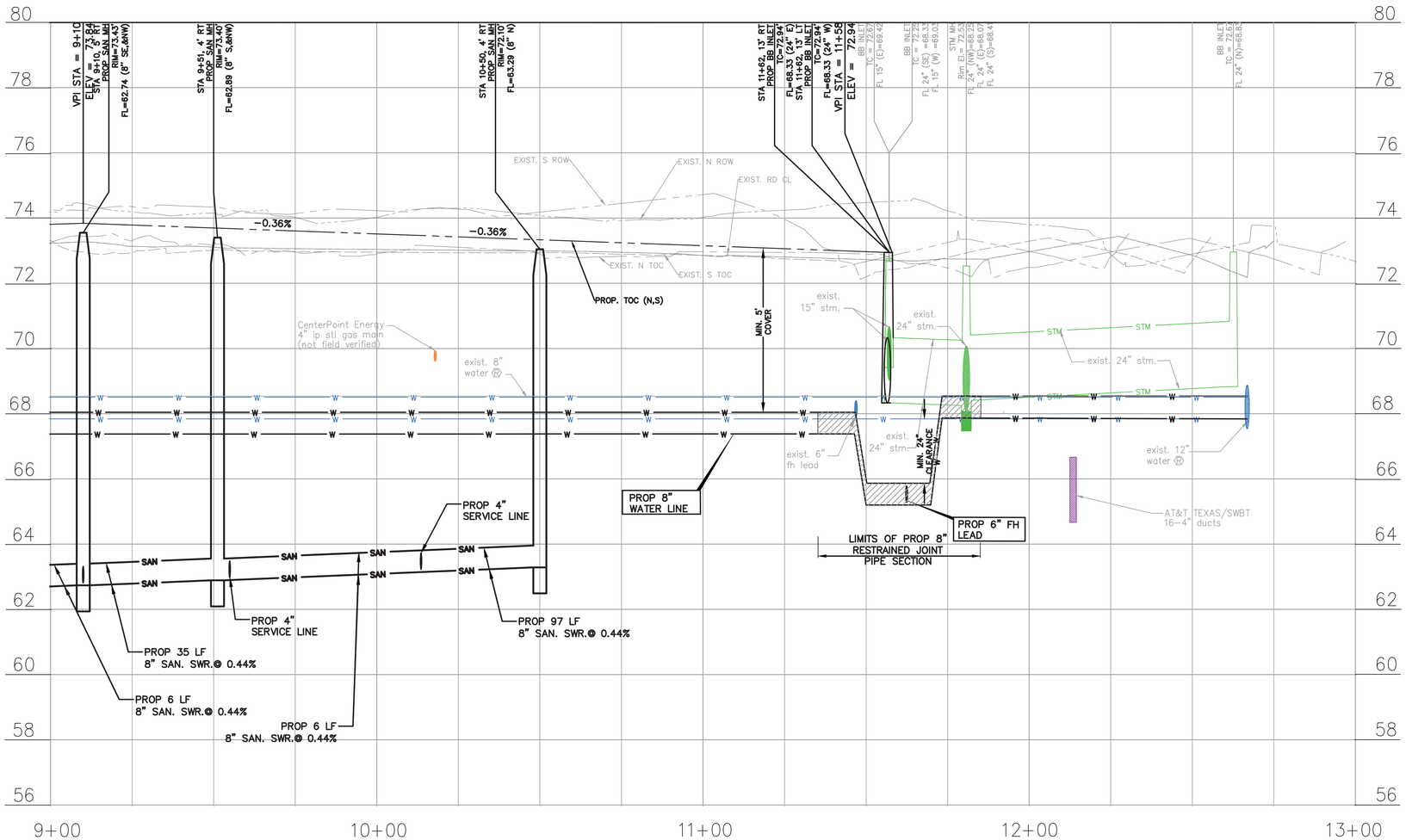
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA
PAVING AND DRAINAGE
IMPROVEMENTS

WHITECAP LANE (EAST)
PLAN
STA 9+00 TO END

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 92 OF 369	

PLOTTED: 8/14/2026 5:16 AM



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NO.	DATE	REVISION	APP.

20 0 10 20 40

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
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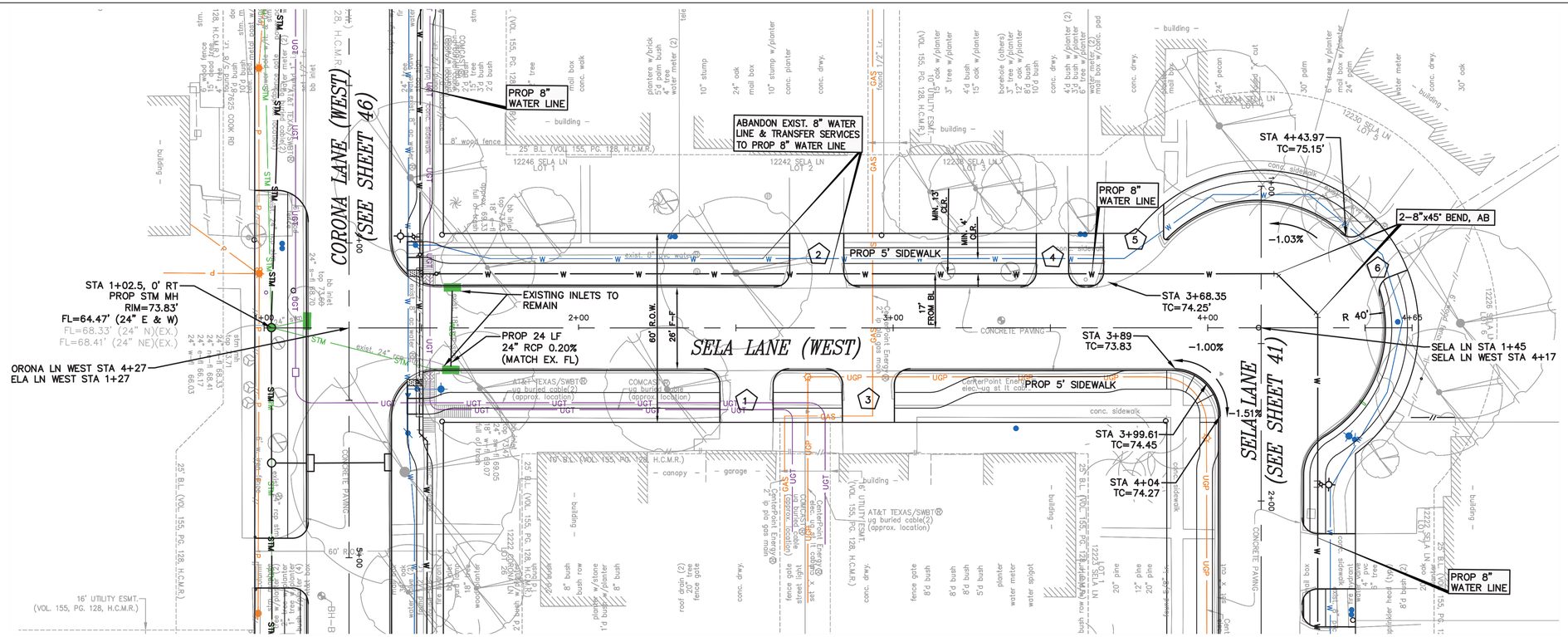
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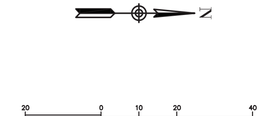
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WHITECAP LANE (EAST)
PROFILE
STA 9+00 TO END

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
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ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 93 OF 369	





NO.	DATE	REVISION	APP.

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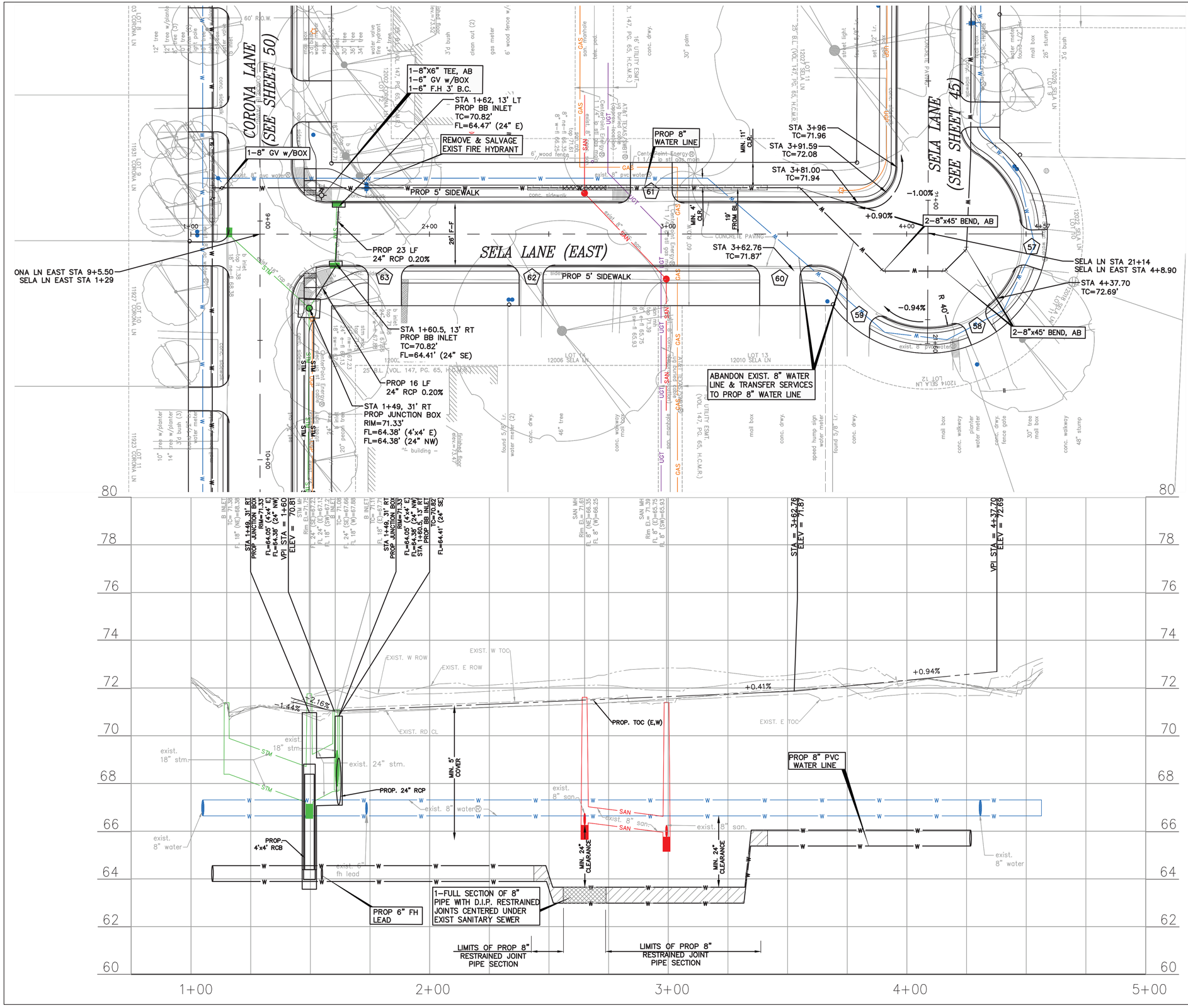
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SELA LANE (WEST)
PLAN & PROFILE
STA START TO 5+00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 94 OF 369	

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PLOTTED: 8/14/2026 12:06 AM

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20 0 10 20 40

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Date

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Signature valid for one year.

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

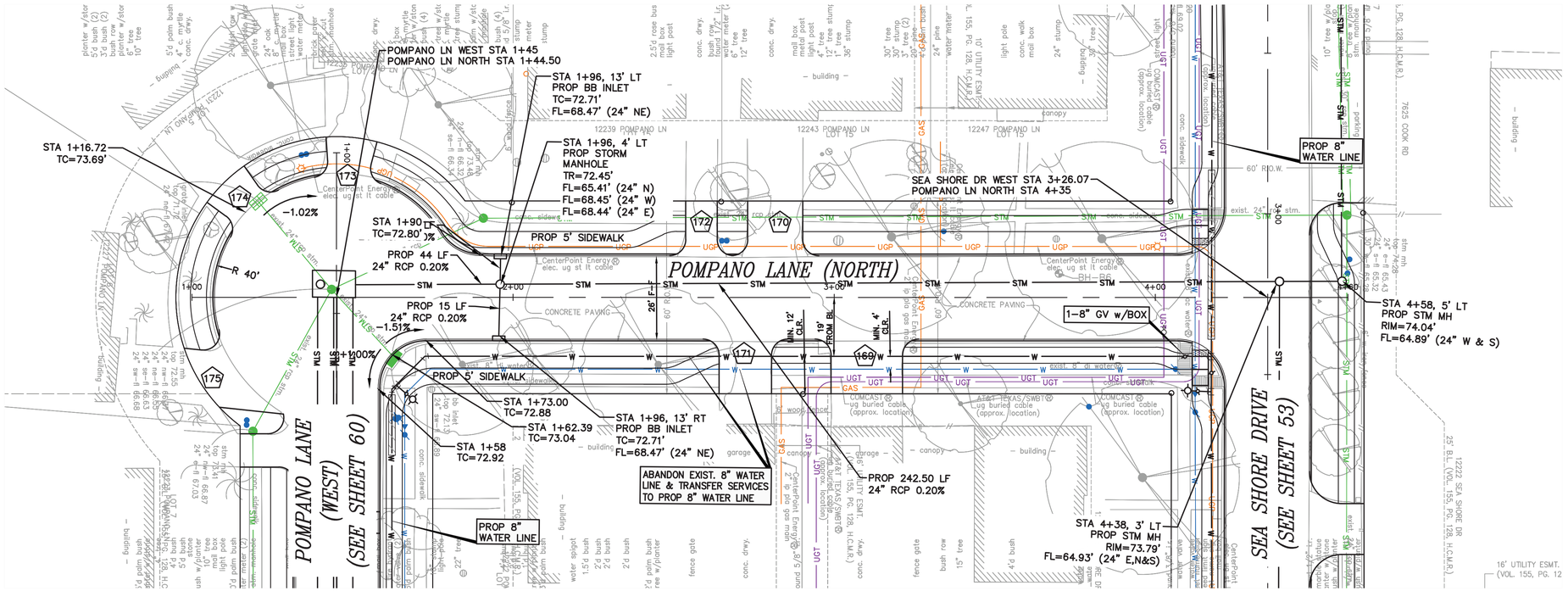
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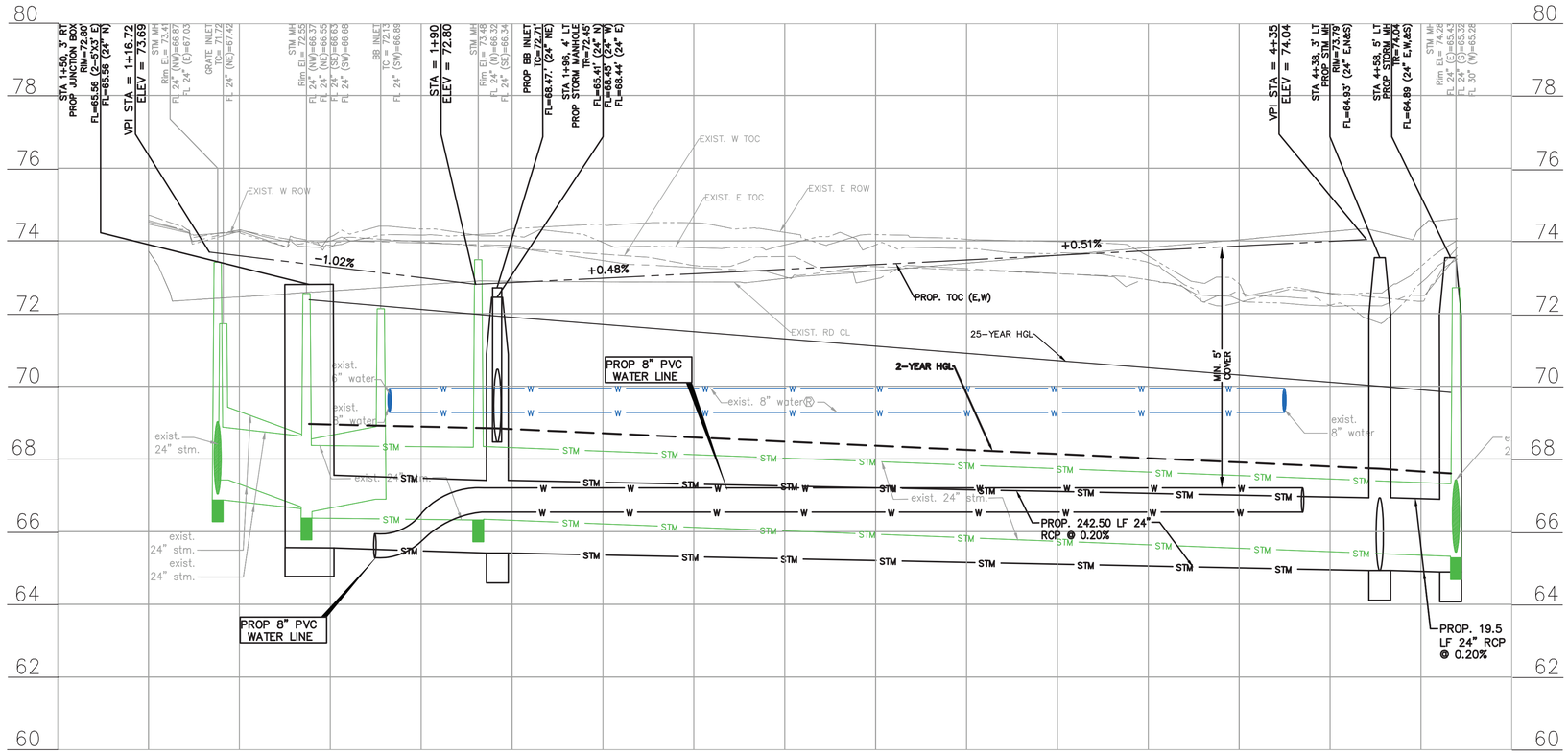
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

SELA LANE (EAST)
PLAN & PROFILE
STA 1+00 TO 5+00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 95 OF 369	





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NO.	DATE	REVISION	APP.

N

20 0 10 20 40

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
1" = 2'-0" FEET V FOR 22"X34" SHEET

BENCHMARK:

CITY OF HOUSTON MONUMENT 4854-8109, A BRASS DISK IN CONCRETE, LOCATED AT SOUTHWEST CORNER OF THE INTERSECTION OF SHARPCREST LN AND RIPTIDE RD.

ELEV. 72.01 FEET NAVD 1988 (GEOID '18)*

* OBSERVED BY GPS SURVEYING AND PROCESSED IN REFERENCE TO THE CORS DATED DECEMBER 11, 2019.

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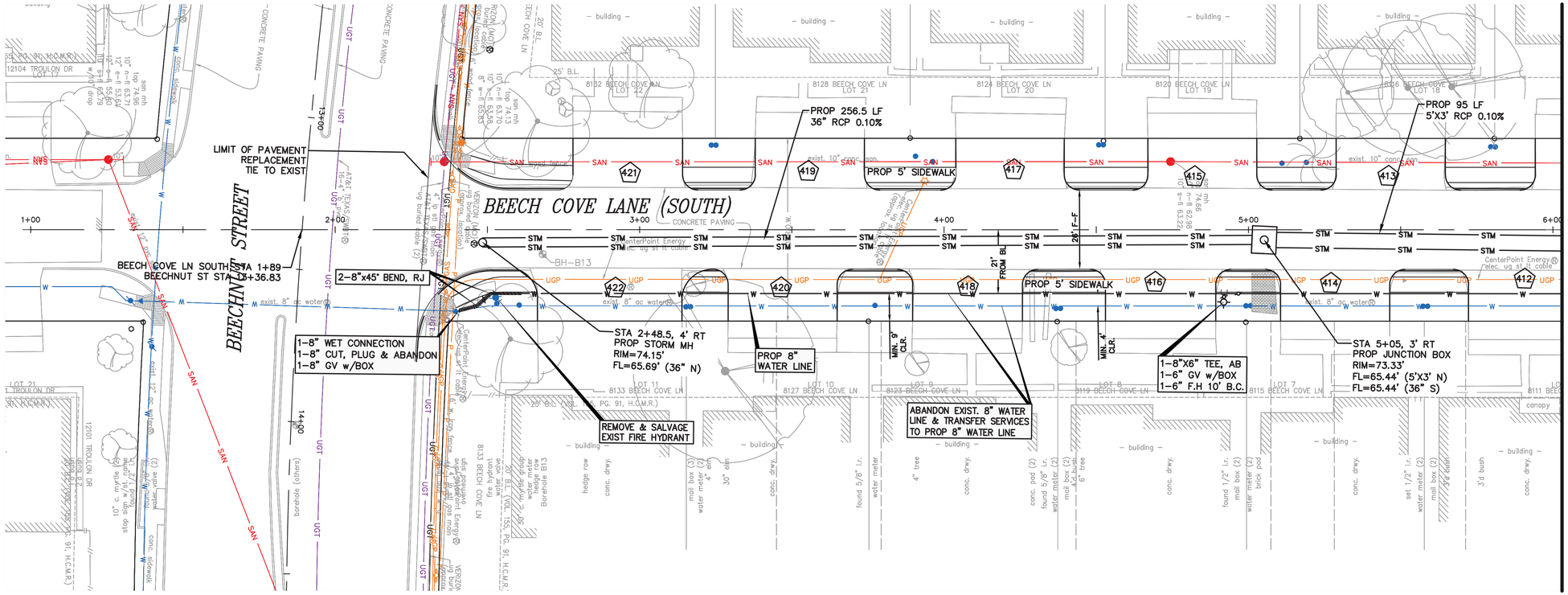
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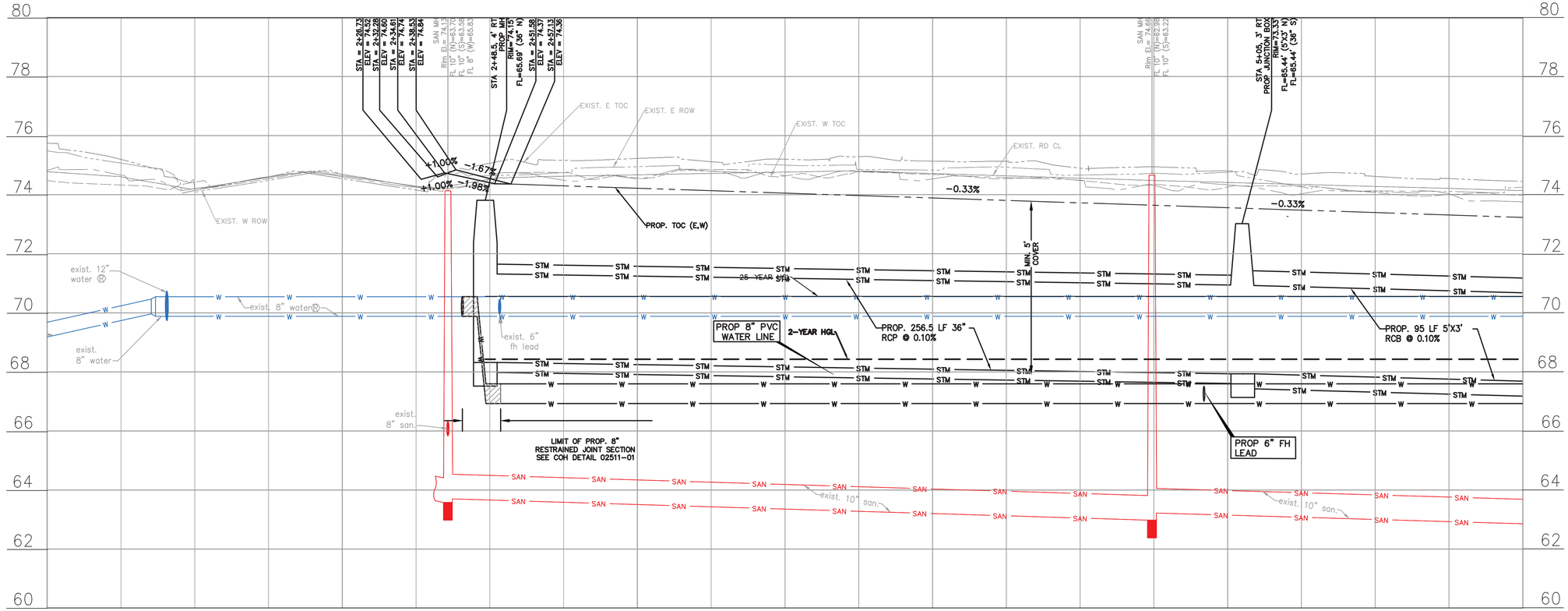
CITY OF HOUSTON
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ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

POMPANO LANE (SOUTH) PLAN & PROFILE STA 1+00 TO END

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 96 OF 369	





SCALE: 1" = 20'–0" FEET H FOR 22"X34" SHEET
1" = 2'–0" FEET V FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.

BENCHMARK:

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P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P–6382

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ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
BEECHCOVE LANE (SOUTH)
PLAND & PROFILE
STA 1+00 TO 6+00

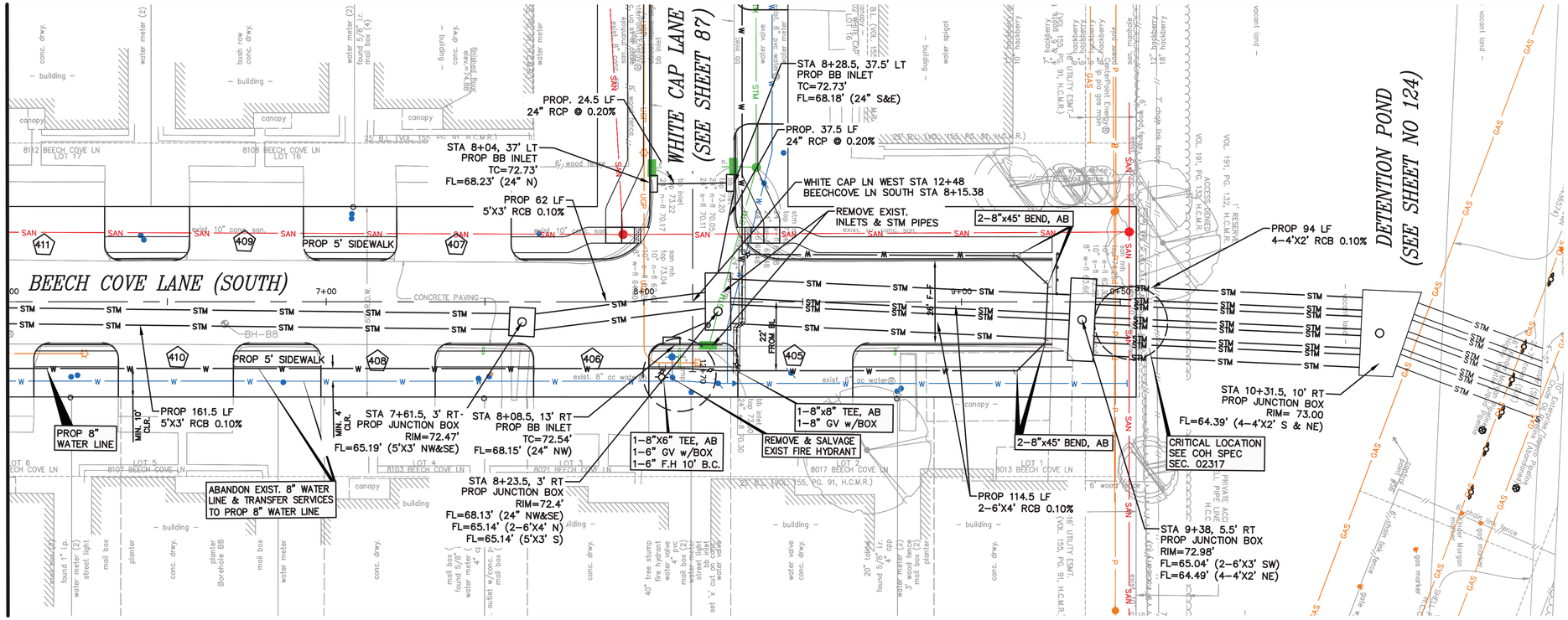
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DRAWING SCALE	
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CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 97 OF 369	

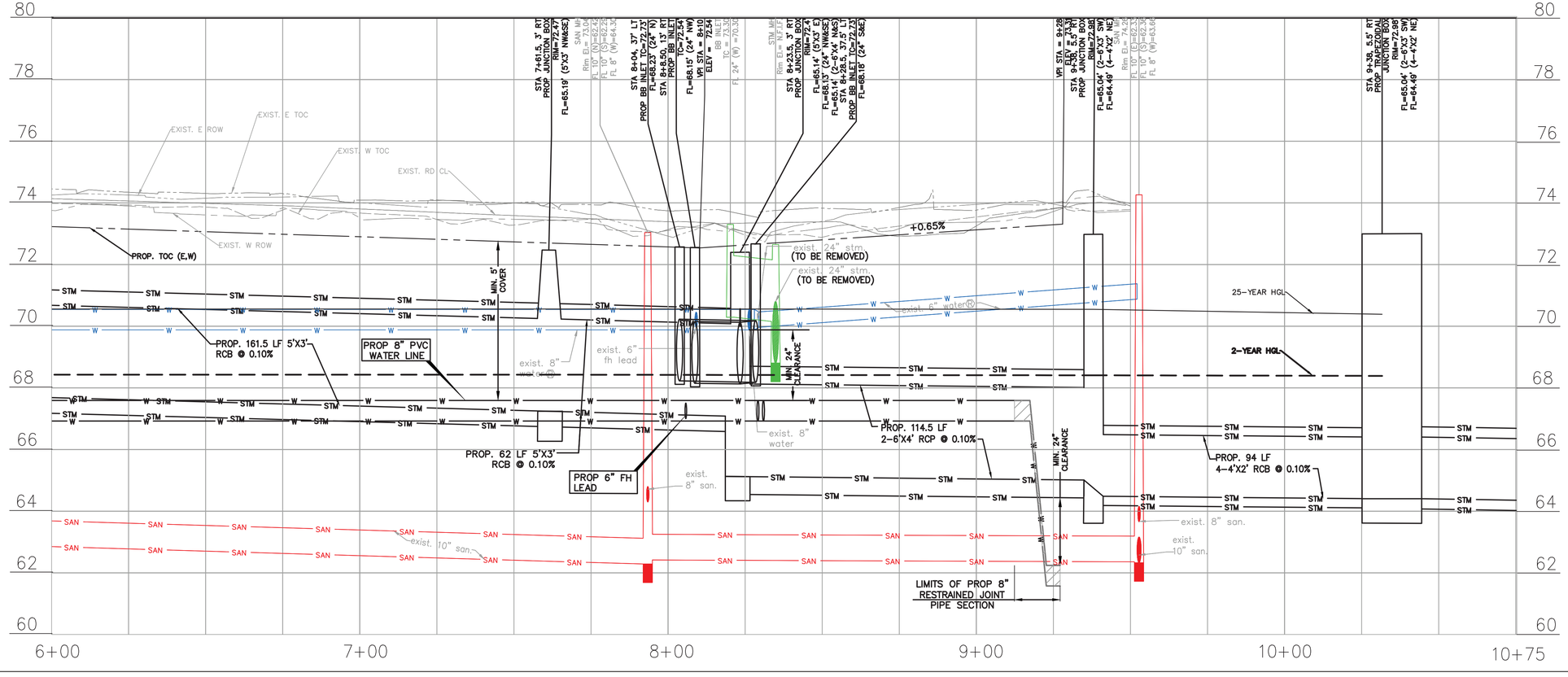
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MATCH LINE STA 6+00
SEE SHEET 97





NO.	DATE	REVISION	APP.

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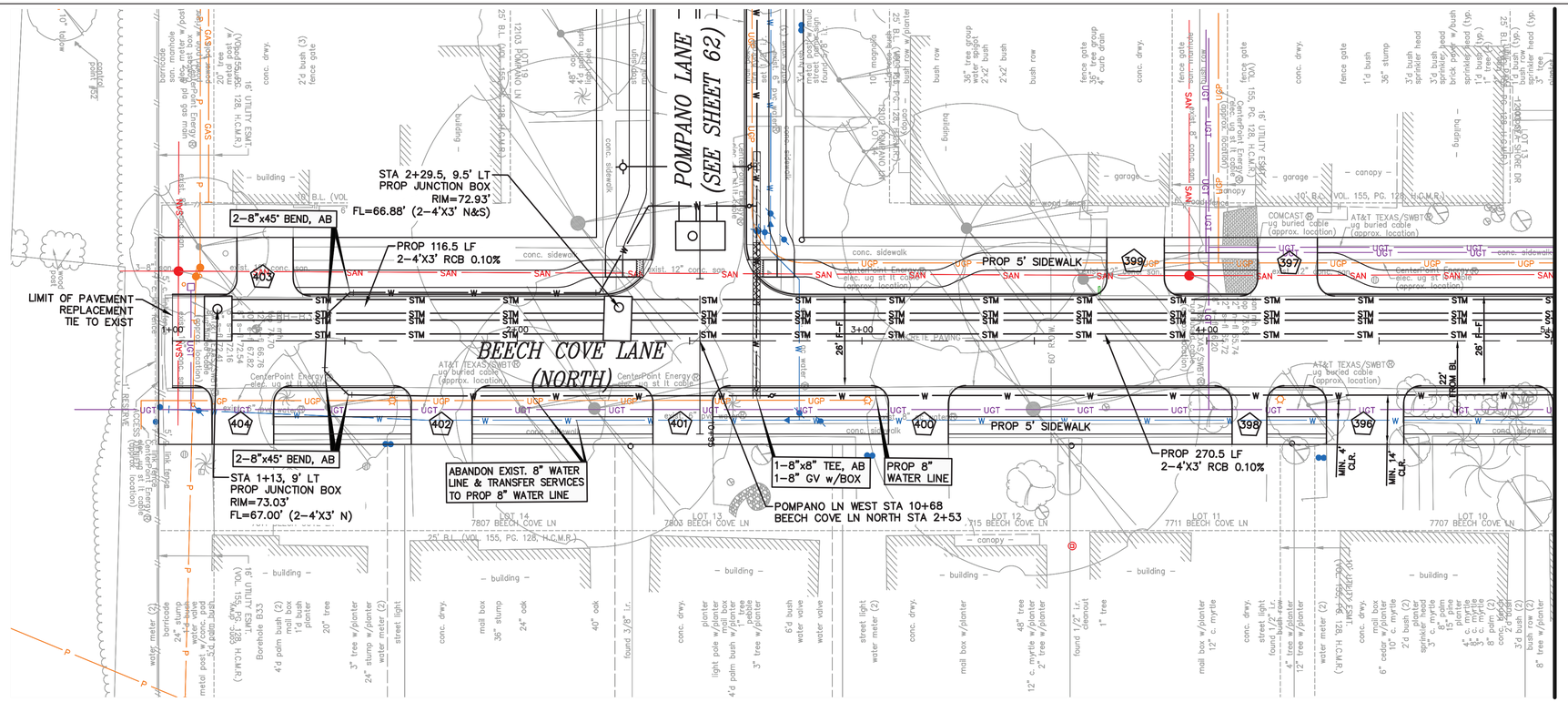
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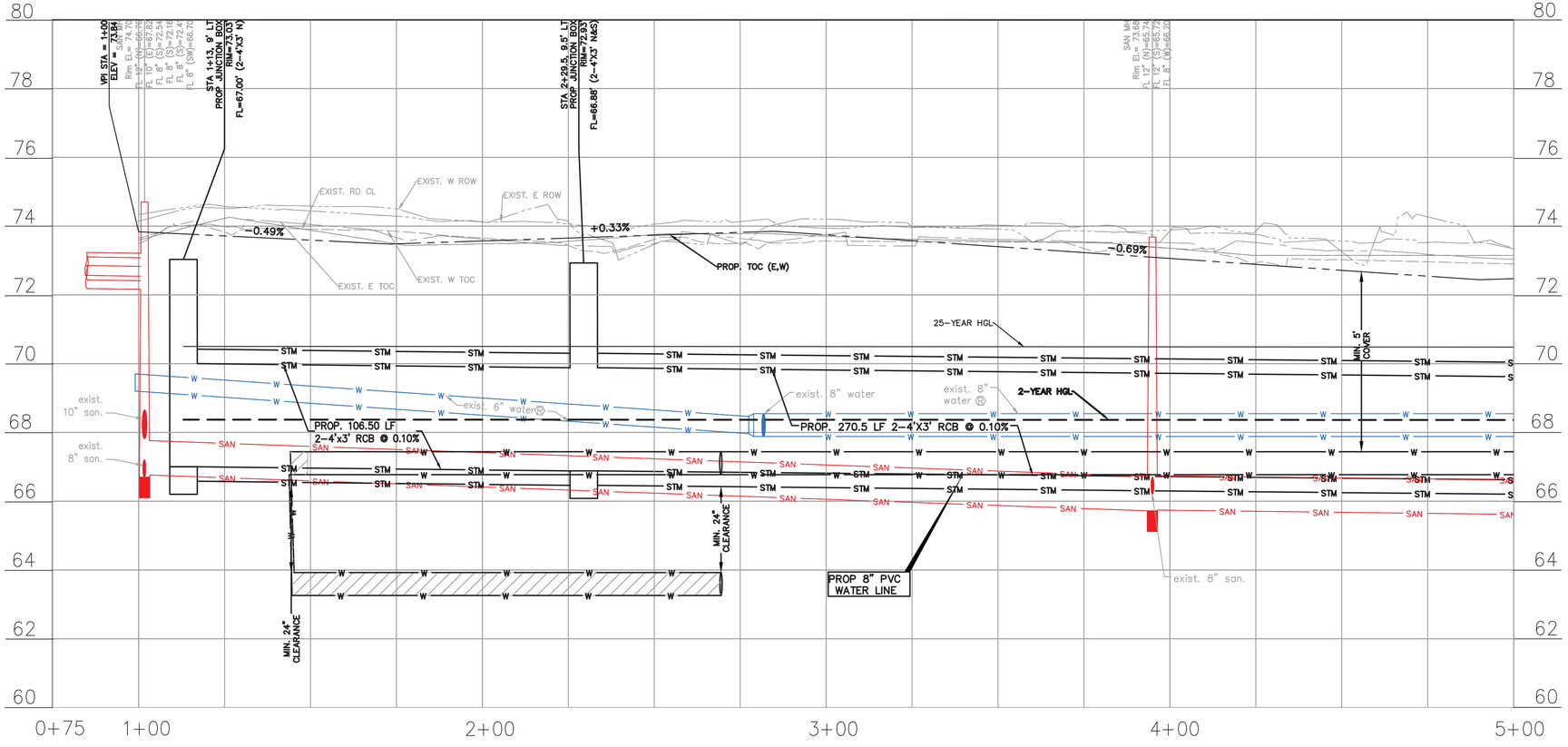
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
BEECHCOVE LANE (SOUTH) PLAN & PROFILE STA 6+00 TO END

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 98 OF 369	

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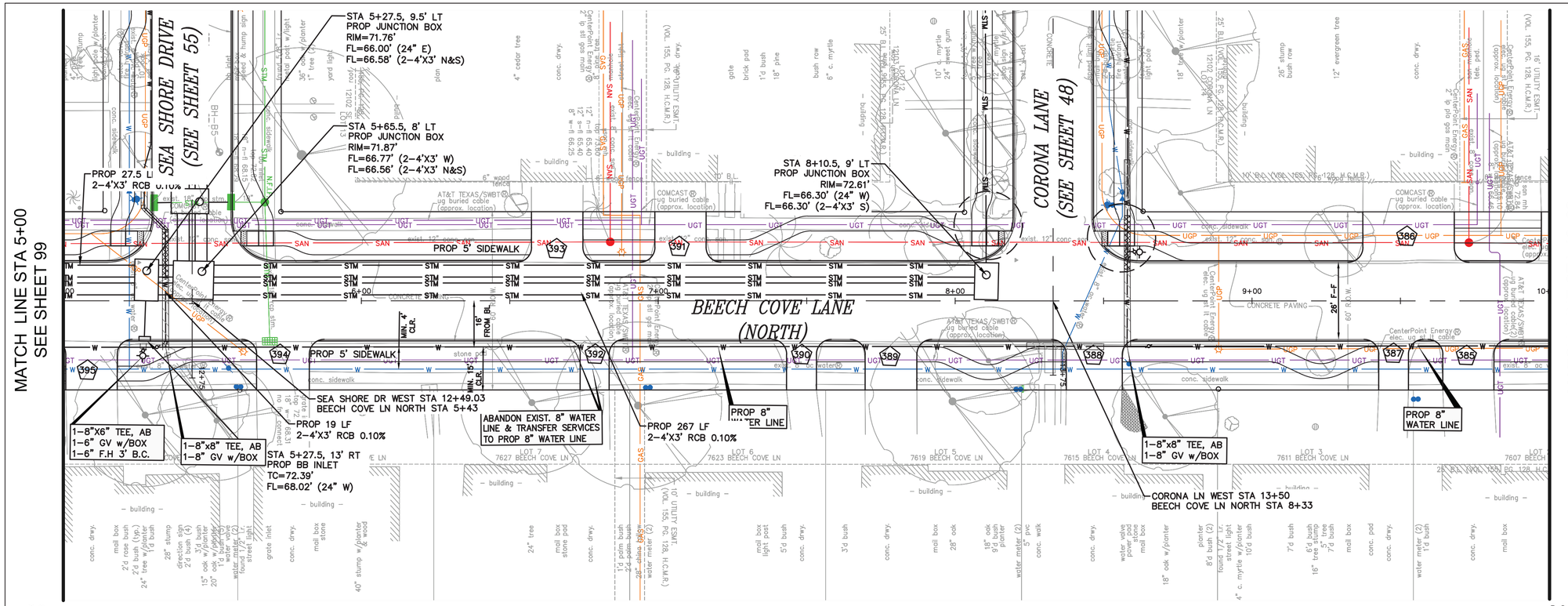
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HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

BEECHCOVE LANE (NORTH)
PLAN & PROFILE
STA START TO 5+00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 99 OF 369	

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NO.	DATE	REVISION	APP.

N

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
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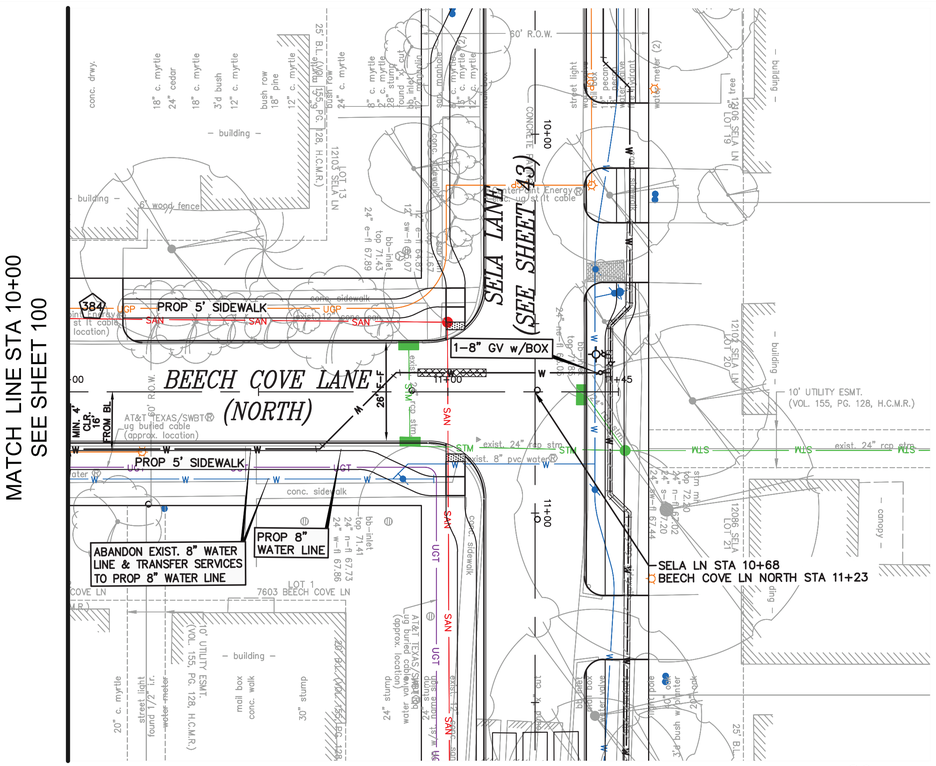
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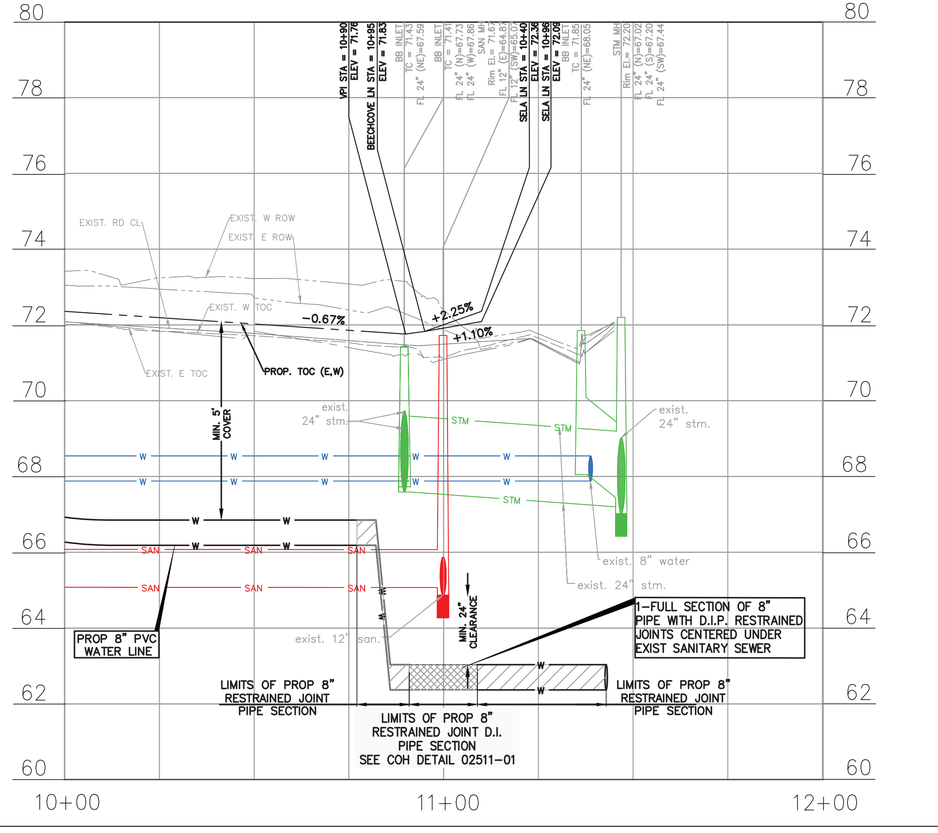
BEECHCOVE LANE (NORTH) PLAN & PROFILE STA 5+00 TO 10+00

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DRAWING SCALE	
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CITY OF HOUSTON PM	
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SHEET NO. 100 OF 369	

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MATCH LINE STA 10+00
SEE SHEET 100





N

20 0 10 20 40

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
1" = 2'-0" FEET V FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.

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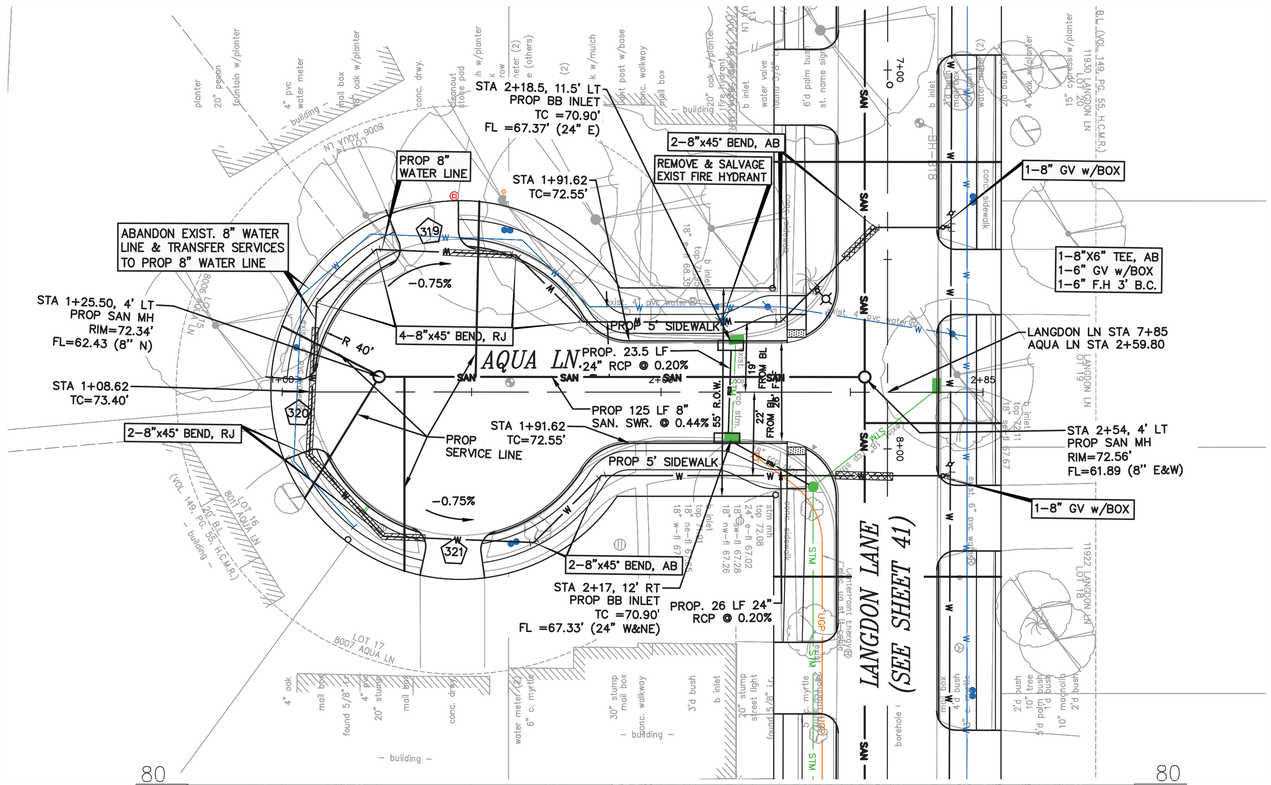
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SHEET NO. 101OF 369	

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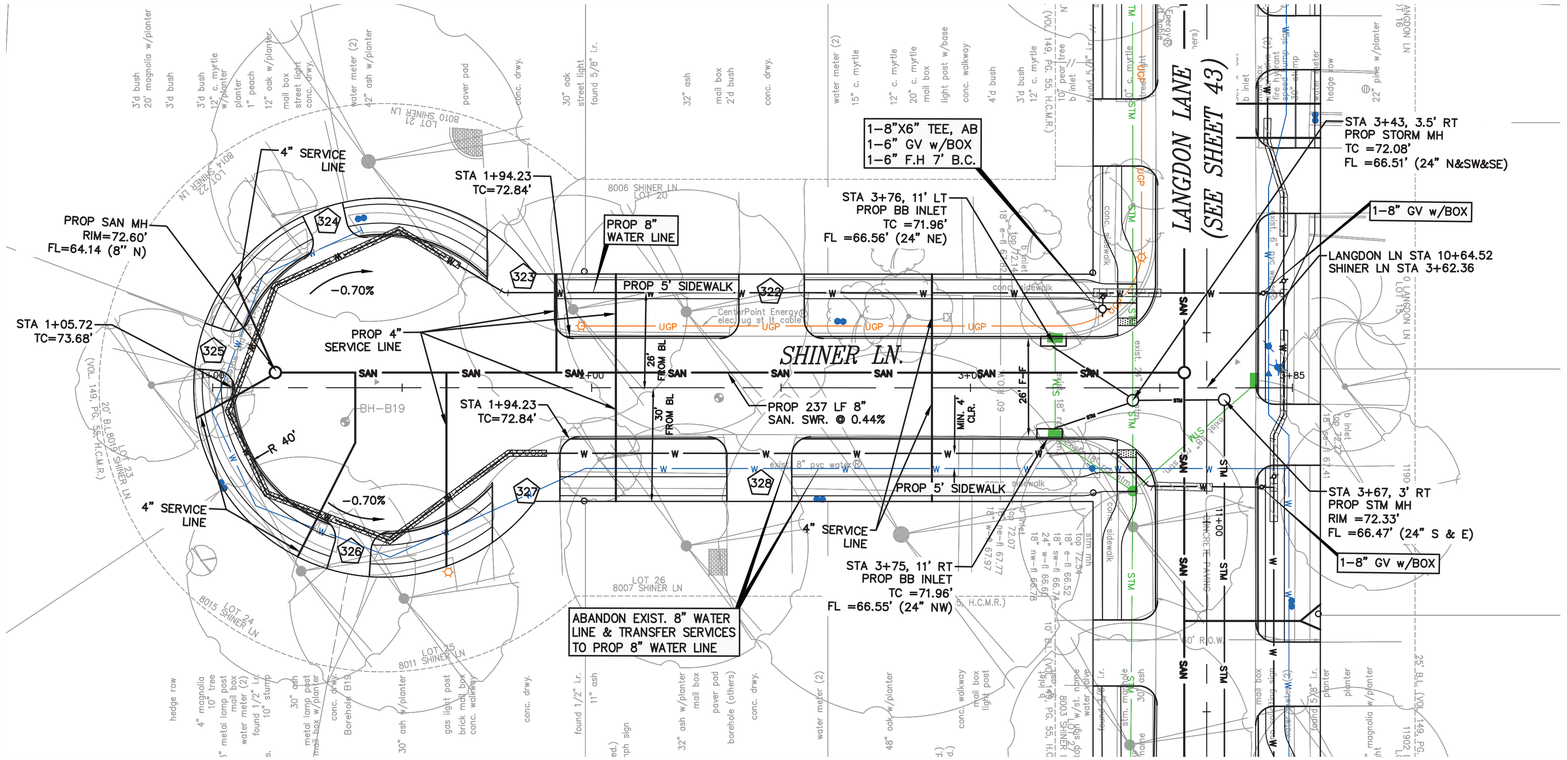
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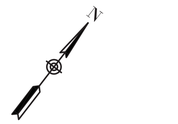
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1" = 2'-0" FEET V FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.

BENCHMARK:

CITY OF HOUSTON MONUMENT 4854-8109, A BRASS DISK IN CONCRETE, LOCATED AT SOUTHWEST CORNER OF THE INTERSECTION OF SHARPCREST LN AND RIPTIDE RD.

ELEV. 72.01 FEET NAVD 1988 (GEOID '18)*

* OBSERVED BY GPS SURVEYING AND PROCESSED IN REFERENCE TO THE CORS DATED DECEMBER 11, 2019.

VERTICAL DATUM ADJUSTMENT:

THE ELEVATION DIFFERENCE IN BETWEEN THE FLOODPLAIN REFERENCE MARK'S (RM 040565) PUBLISHED DATUM NAVD 1988, 2001 ADJUSTMENT AND DATUM NAVD 1988, (GEOID '18) IS 0.30'.

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VERIFICATION OF PRIVATE UTILITY LINES

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civil \ design \ engineers
10448 Westoffice Drive
Houston, Texas 77042
P 713 747 2399
F 713 748 3748
TBPE Firm Reg. #4575

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ENGINEER: RAHUL B MENON, P.E
P.E.Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P-6382

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

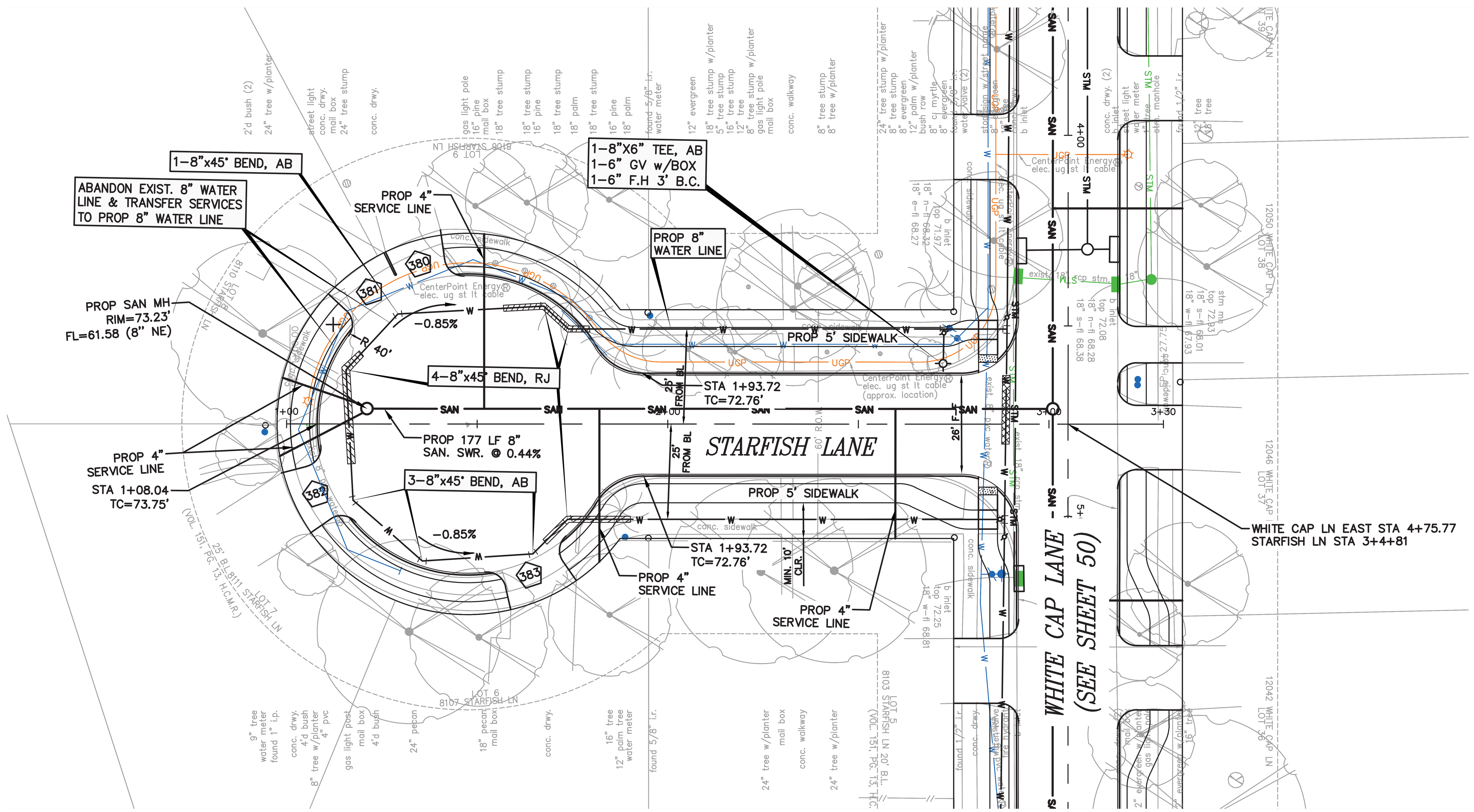
SHINER LANE
PLAN & PROFILE
STA START TO END

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 103 OF 369	

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PLOTTED: 8/14/2026 4:52 AM
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NO.	DATE	REVISION	APP.



SCALE: 1" = 20'–0" FEET H FOR 22"X34" SHEET
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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
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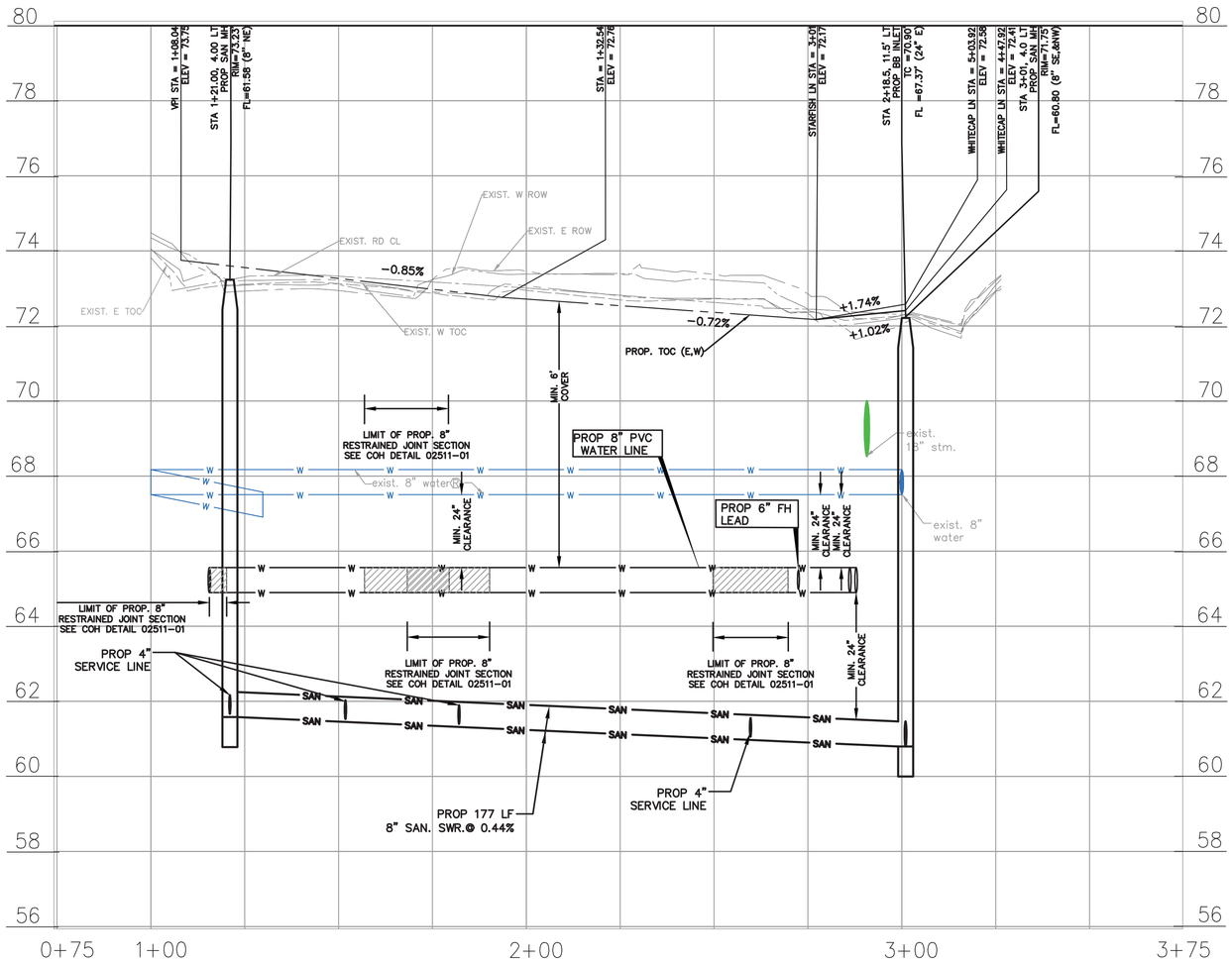
SURVEYED BY: Kuo&Associates
FB NO. P–6382

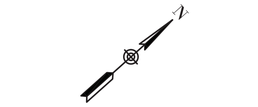
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

STARFISH LANE
PLAN
STA START TO END

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 104 OF 369	





SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
1" = 2'-0" FEET V FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.

BENCHMARK:

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P-6382

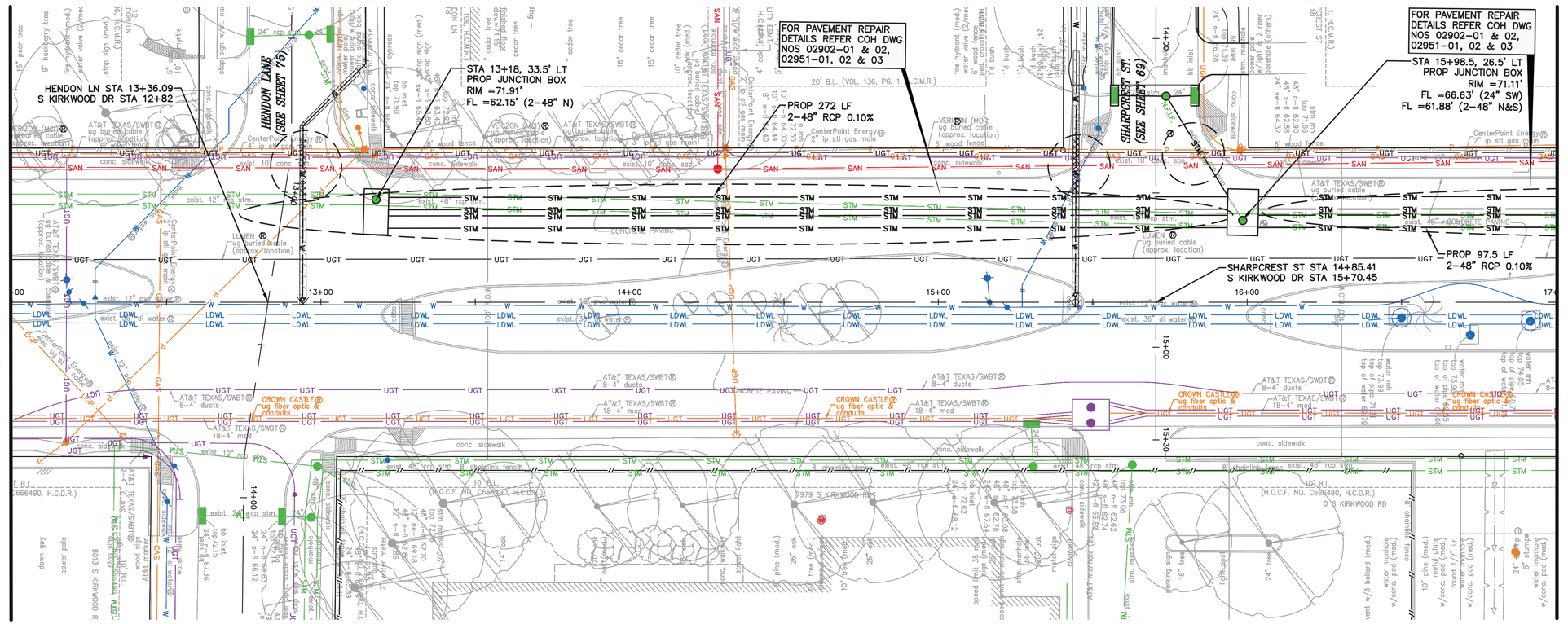
CITY OF HOUSTON
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ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

STARFISH LANE
PROFILE
STA START TO END

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
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CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 105 OF 369	

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NO. | DATE | REVISION | APP.

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P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P-6382

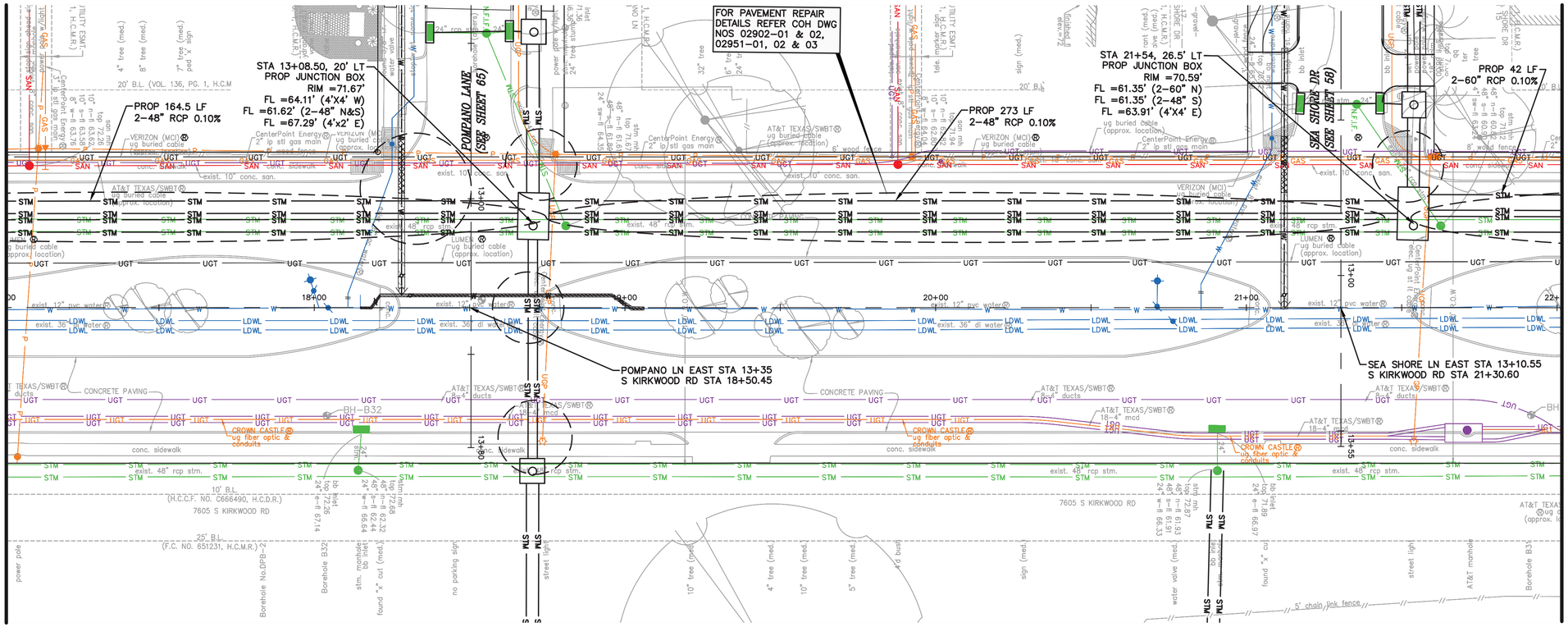
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

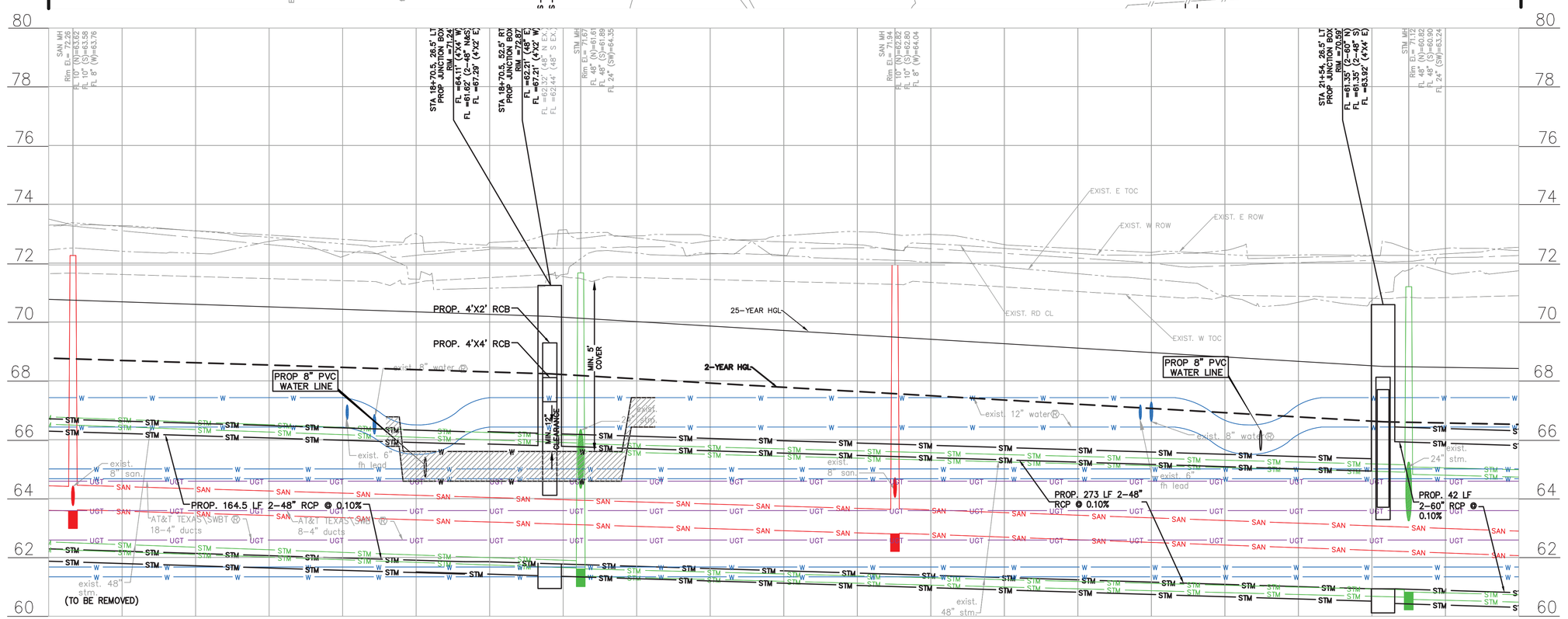
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

SOUTH KIRKWOOD ROAD
PLAN & PROFILE
STA 12+00 TO 17+00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 106 OF 369	

PLOTTED: 8/14/2026 5:46 AM
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PLOTTED: 8/14/2026 6:22 AM

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NO.	DATE	REVISION	APP.

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
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ENGINEER: RAHUL B MENON, P.E
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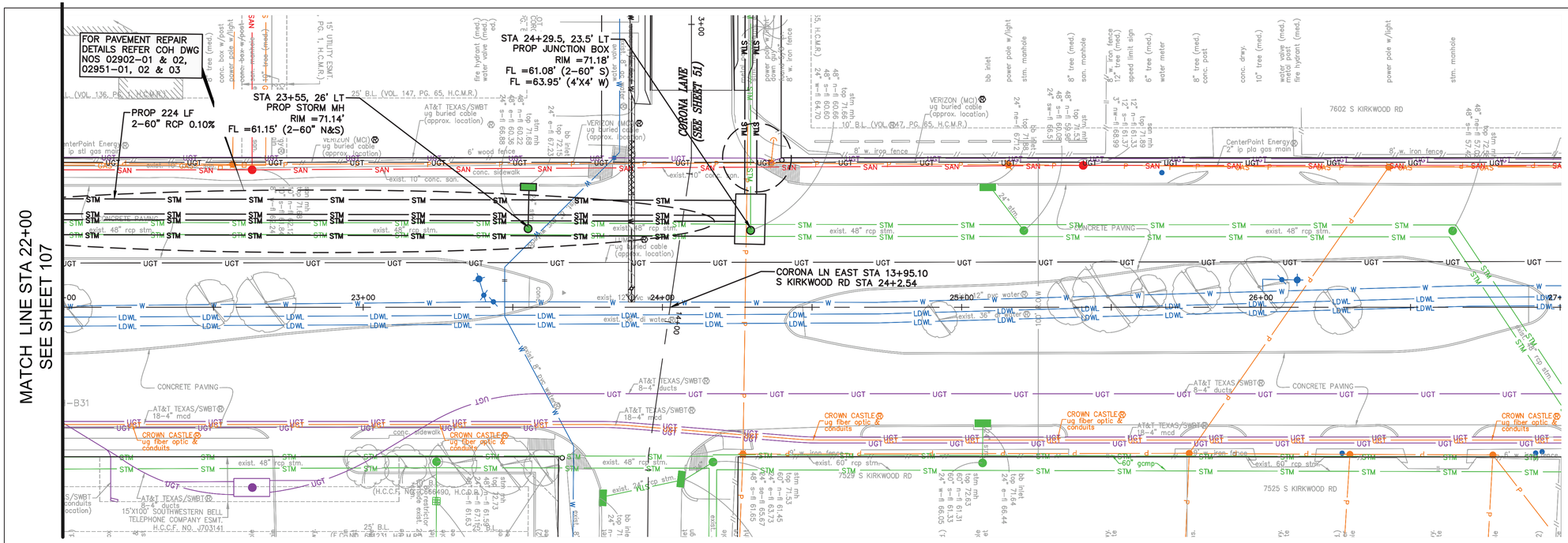
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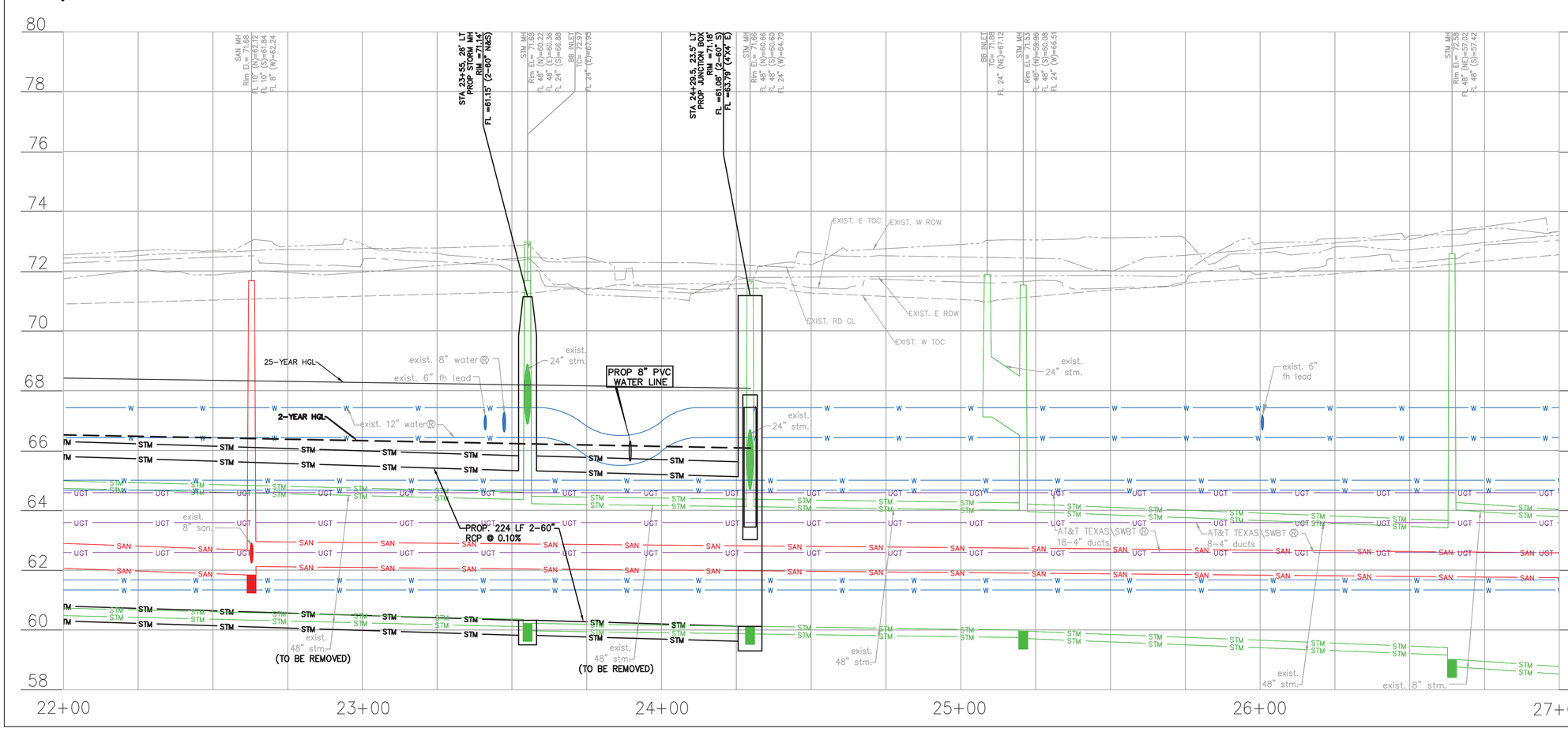
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

SOUTH KIRKWOOD ROAD
PLAN & PROFILE
STA 17+00 TO 22+00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 107 OF 369	

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BENCHMARK:

CITY OF HOUSTON MONUMENT 4854-8109, A BRASS DISK IN CONCRETE, LOCATED AT SOUTHWEST CORNER OF THE INTERSECTION OF SHARPCREST LN AND RIPTIDE RD.

ELEV. 72.01 FEET NAVD 1988 (GEOID '18)*

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ENGINEER: RAHUL B MENON, P.E
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CITY OF HOUSTON
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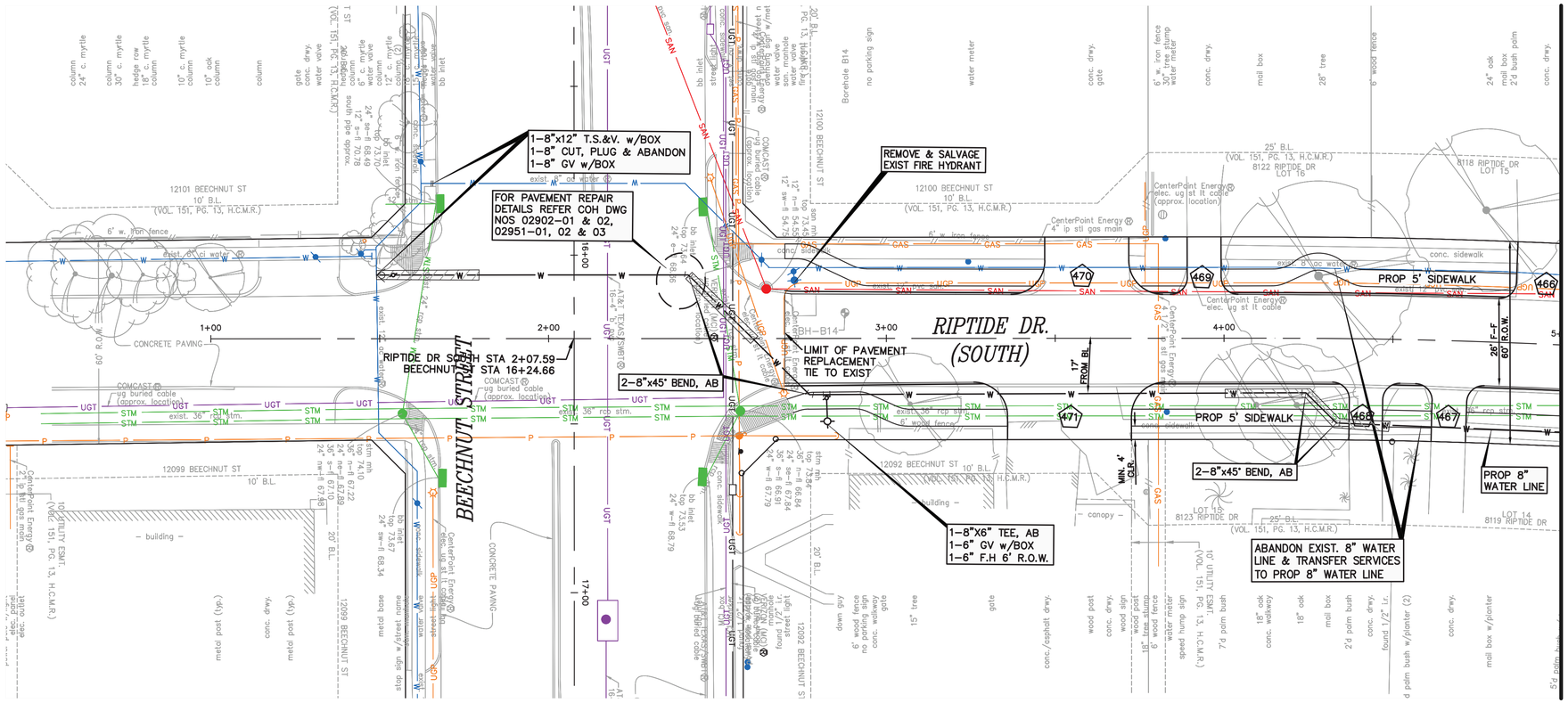
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

SOUTH KIRKWOOD ROAD PLAN & PROFILE STA 22+00 TO 27+00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 108 OF 369	

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PLOTTED: 8/14/2026 7:18 AM





SCALE: 1" = 20'–0" FEET H FOR 22"X34" SHEET
1" = 2'–0" FEET V FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.

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ENGINEER: RAHUL R MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P–6382

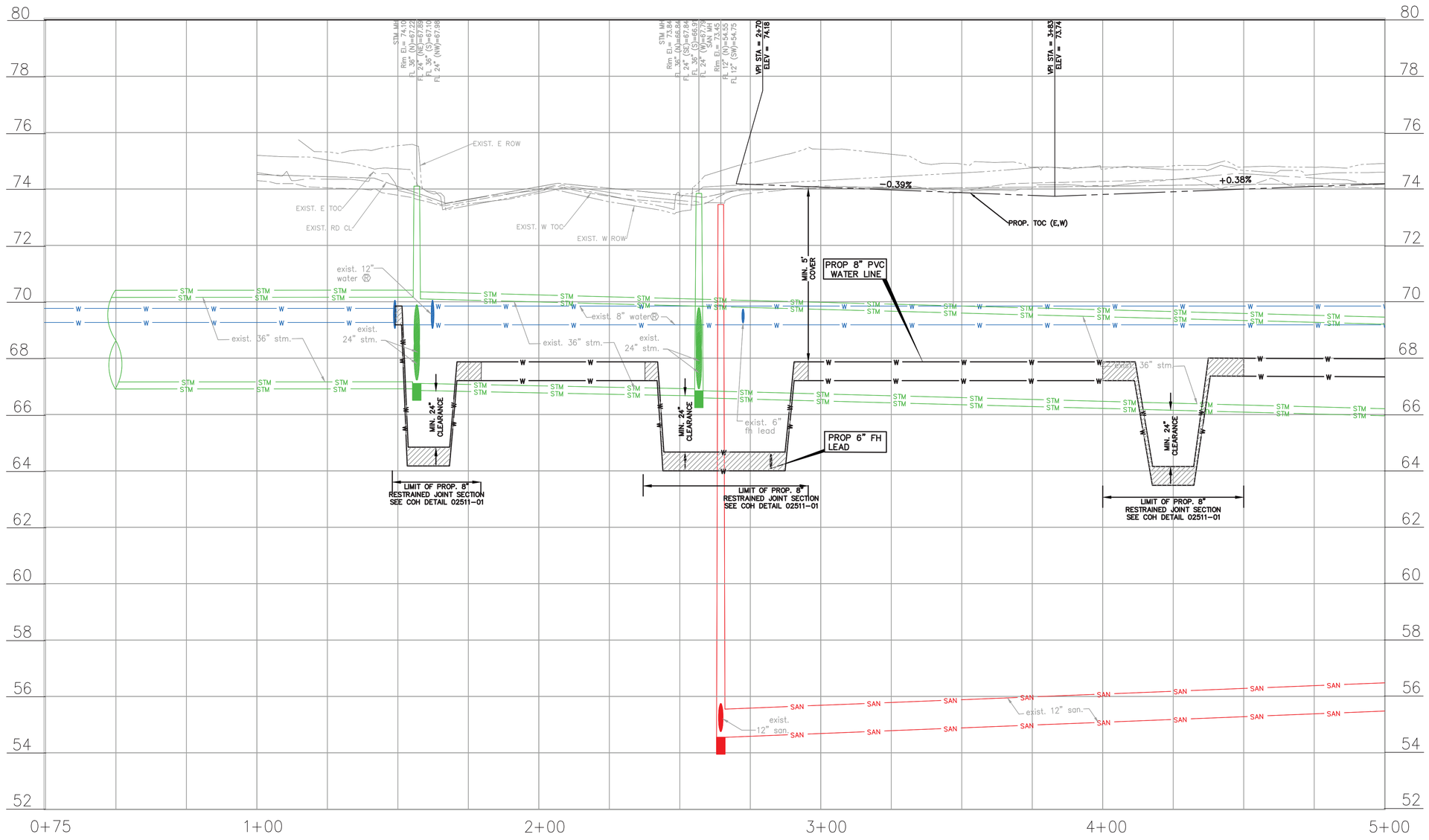
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

RIPTIDE DRIVE (SOUTH)
PLAN
STA START TO 5+00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 109 OF 369	

FILE PATH: P:\ACTIVE\18PV97 – 2024 Update\Ph II\Working\CAD\BACKUP\PP Cutsheet 2.dwg



SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
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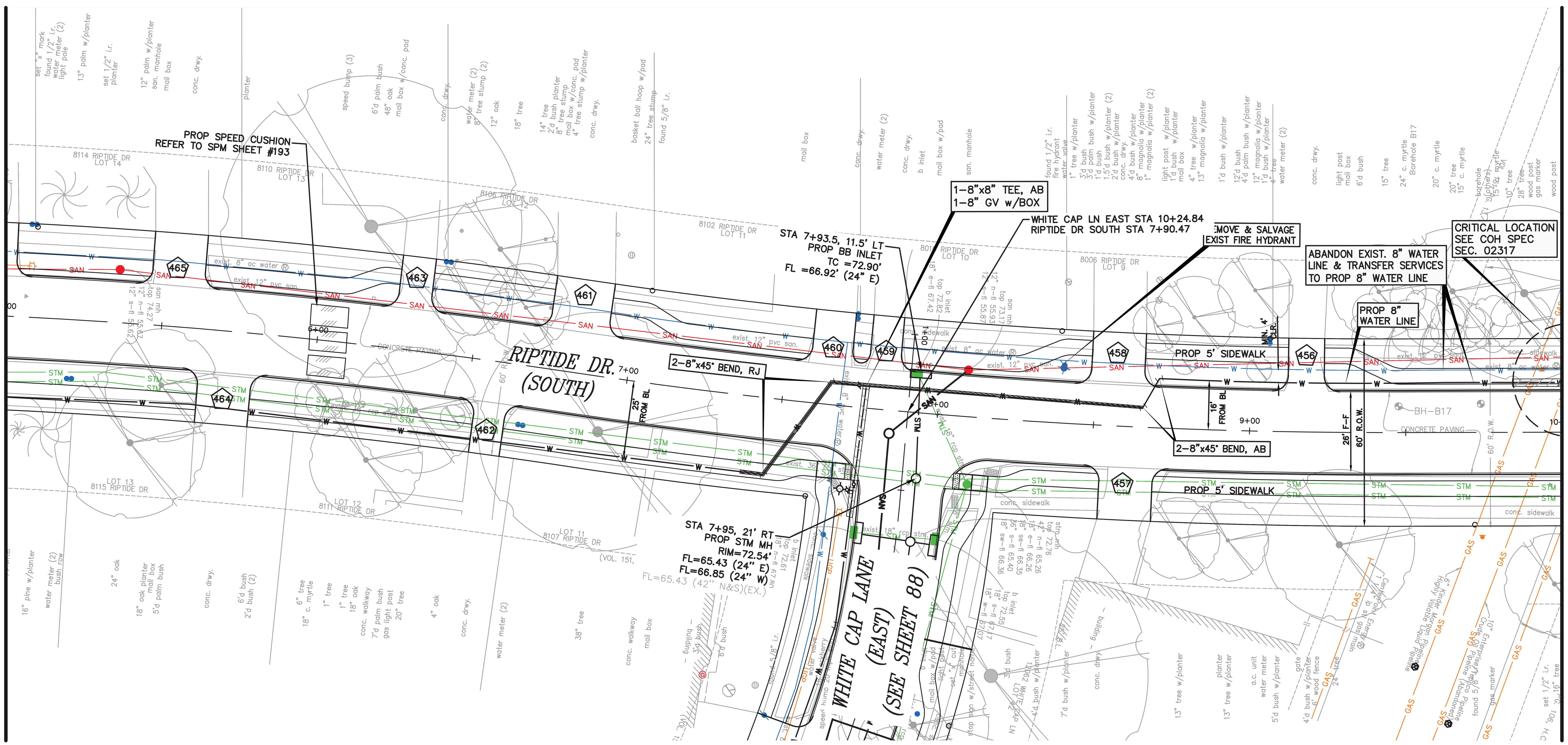
RIPTIDE DRIVE (SOUTH)
PROFILE
STA START TO 5+00

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CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 110 OF 369	

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FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\BACKUP\PP Cutsheet 2.dwg

MATCH LINE STA 5+00
SEE SHEET 109



MATCH LINE STA 10+00
SEE SHEET 113

NO.	DATE	REVISION	APP.

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
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F 713 748 3748
TBPE Firm Reg. #4575

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P-6382

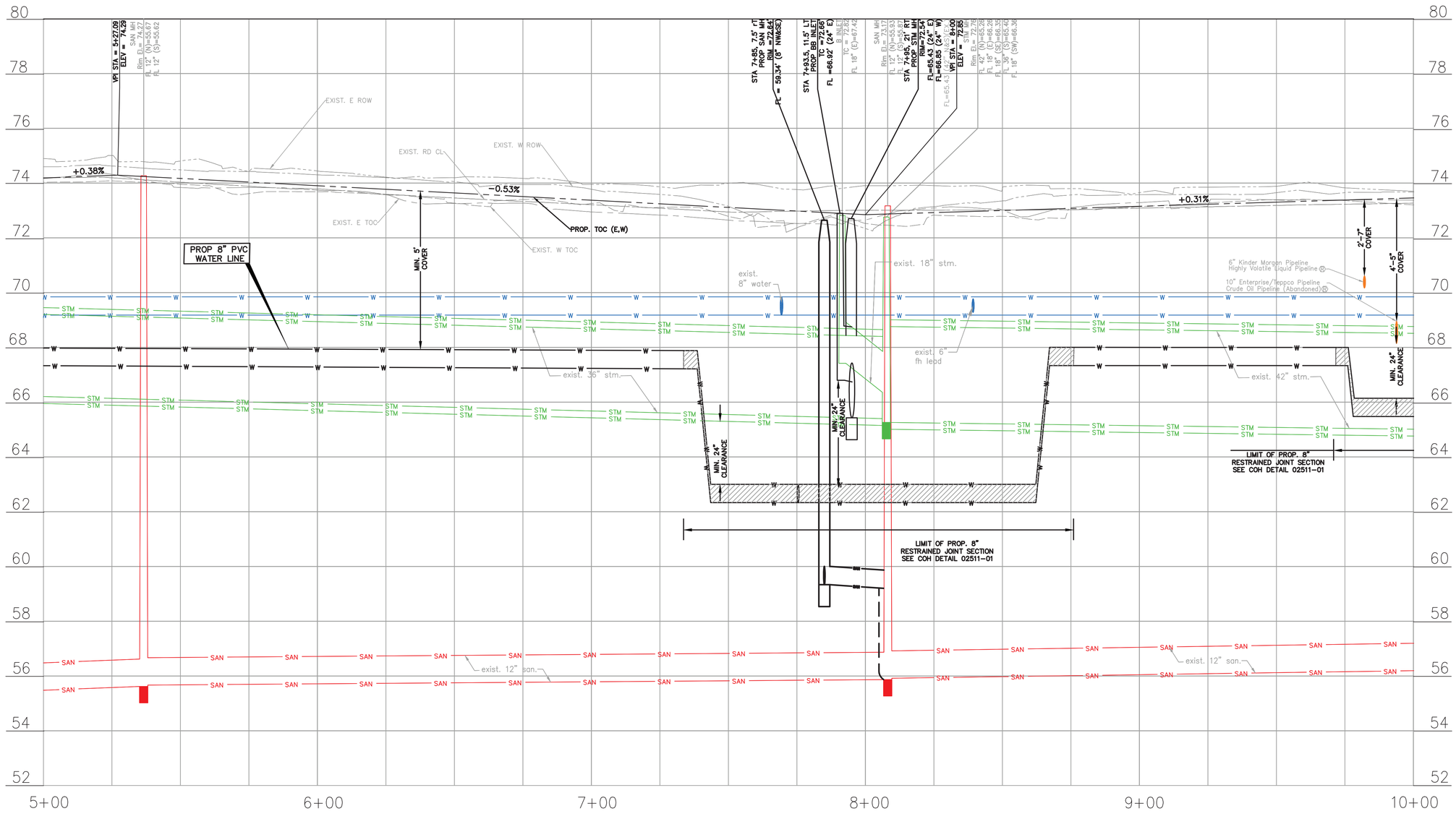
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

RIPTIDE DRIVE (SOUTH)
PLAN
STA 5+00 TO 10+00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 111 OF 369	

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NO.	DATE	REVISION	APP.

20 0 10 20 40

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
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BENCHMARK:

CITY OF HOUSTON MONUMENT 4854-8109, A BRASS DISK IN CONCRETE, LOCATED AT SOUTHWEST CORNER OF THE INTERSECTION
OF SHARPCREST LN AND RIPTIDE RD.

ELEV. 72.01 FEET NAVD 1988 (GEOID '18)*

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SHEET NO. 112 OF 369	

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MATCH LINE STA 10+00
SEE SHEET 111

REMOVE & SALVAGE EXIST FIRE HYDRANT

REMOVE EXIST. INLET AND 18' STM PIPE

PROP 17 LF 48" RCP 0.10%

HENDON LN STA 1+25
RIPTIDE LN SOUTH STA 12+58.90
1–8"x8" TEE, AB
1–8" GV w/BOX

ABANDON EXIST. 8" WATER LINE & TRANSFER SERVICES TO PROP 8" WATER LINE

PROP 8" WATER LINE

PROP 5' SIDEWALK

RIPTIDE DR. (SOUTH)

HENDON LANE (SEE SHEET 71)

STA 12+37, 23' RT
PROP STM MH
RIM =72.67'
FL =64.65' (48" N)
FL =64.65' (42" S)(EX.)

STA 12+54, 22.5' RT
PROP STM MH
RIM =72.24'
FL =63.83' (48" N)
FL =64.63' (48" S)
FL =64.83' (36" E)

PROP SPEED CUSHION
REFER TO SPM SHEET #192

PROP 244.5 LF
48" RCP 0.10%

PROP 48" RCP

MATCH LINE STA 15+00
SEE SHEET 115

7926 RIPTIDE DR LOT 7
7922 RIPTIDE DR LOT 6
7918 RIPTIDE DR LOT 5
7914 RIPTIDE DR LOT 4
7910 RIPTIDE DR LOT 3
7906 RIPTIDE DR LOT 2
7902 RIPTIDE DR LOT 1
7927 RIPTIDE DR LOT 1
7923 RIPTIDE DR LOT 2
7919 RIPTIDE DR LOT 3

25' B.L. (VOL. 146, PG. 106, H.C.M.R.)
10' B.L. (VOL. 146, PG. 106, H.C.M.R.)
UTILITY ESMT (VOL. 136, PG. 1, H.C.M.R.)

454 453 452 451 450 449 448 447 446 455 456

CONCRETE PAVING
60' R.O.W.
26' F-F
16' FROM BL
MIN. 4' CLR.
MIN. 14' CLR.
MIN. 15' CLR.

11+00 12+00 13+00 14+00 15

NOTES:
1. CONTRACTOR SHALL VERIFY LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION.
2. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES.
3. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL MAILBOXES AT ALL TIMES.
4. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FIRE HYDRANTS AT ALL TIMES.
5. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL WATER METERS AT ALL TIMES.
6. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL WATER VALVES AT ALL TIMES.
7. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SANITARY SEWER MANHOLES AT ALL TIMES.
8. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL STORM SEWER MANHOLES AT ALL TIMES.
9. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL INLETS AT ALL TIMES.
10. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL STREET LIGHTS AT ALL TIMES.
11. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL TRAFFIC SIGNALS AT ALL TIMES.
12. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL TRAFFIC SIGNS AT ALL TIMES.
13. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL TRAFFIC CONTROL DEVICES AT ALL TIMES.
14. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PEDESTRIAN RAMPS AT ALL TIMES.
15. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL CROSSWALKS AT ALL TIMES.
16. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL BUS STOPS AT ALL TIMES.
17. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SCHOOL ZONES AT ALL TIMES.
18. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL HOSPITALS AT ALL TIMES.
19. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FIRE STATIONS AT ALL TIMES.
20. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL POLICE STATIONS AT ALL TIMES.
21. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EMERGENCY VEHICLES AT ALL TIMES.
22. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL GARBAGE TRUCKS AT ALL TIMES.
23. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL MAIL TRUCKS AT ALL TIMES.
24. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SCHOOL BUSES AT ALL TIMES.
25. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PUBLIC TRANSPORTATION VEHICLES AT ALL TIMES.
26. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PRIVATE TRANSPORTATION VEHICLES AT ALL TIMES.
27. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PEDESTRIANS AT ALL TIMES.
28. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL BICYCLISTS AT ALL TIMES.
29. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL EQUESTRIANS AT ALL TIMES.
30. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ANIMALS AT ALL TIMES.
31. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PETS AT ALL TIMES.
32. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL LIVESTOCK AT ALL TIMES.
33. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL WILDLIFE AT ALL TIMES.
34. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PLANTS AT ALL TIMES.
35. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL TREES AT ALL TIMES.
36. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SHRUBS AT ALL TIMES.
37. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL GRASS AT ALL TIMES.
38. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FLOWERS AT ALL TIMES.
39. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL GARDENS AT ALL TIMES.
40. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL LANDSCAPING AT ALL TIMES.
41. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL IRRIGATION SYSTEMS AT ALL TIMES.
42. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL DRAINAGE SYSTEMS AT ALL TIMES.
43. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL STORM WATER SYSTEMS AT ALL TIMES.
44. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SANITARY SEWER SYSTEMS AT ALL TIMES.
45. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL WATER SYSTEMS AT ALL TIMES.
46. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL GAS SYSTEMS AT ALL TIMES.
47. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ELECTRICAL SYSTEMS AT ALL TIMES.
48. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL TELECOMMUNICATIONS SYSTEMS AT ALL TIMES.
49. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL CABLE TELEVISION SYSTEMS AT ALL TIMES.
50. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL INTERNET SYSTEMS AT ALL TIMES.
51. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL TELEPHONE SYSTEMS AT ALL TIMES.
52. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL RADIO SYSTEMS AT ALL TIMES.
53. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL TELEVISION SYSTEMS AT ALL TIMES.
54. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL SATELLITE SYSTEMS AT ALL TIMES.
55. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL MICROWAVE SYSTEMS AT ALL TIMES.
56. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FIBER OPTIC SYSTEMS AT ALL TIMES.
57. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL COPPER SYSTEMS AT ALL TIMES.
58. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL ALUMINUM SYSTEMS AT ALL TIMES.
59. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL STEEL SYSTEMS AT ALL TIMES.
60. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL CONCRETE SYSTEMS AT ALL TIMES.
61. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PLASTIC SYSTEMS AT ALL TIMES.
62. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL RUBBER SYSTEMS AT ALL TIMES.
63. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL GLASS SYSTEMS AT ALL TIMES.
64. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL WOOD SYSTEMS AT ALL TIMES.
65. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FABRIC SYSTEMS AT ALL TIMES.
66. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PAPER SYSTEMS AT ALL TIMES.
67. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL CARDBOARD SYSTEMS AT ALL TIMES.
68. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PLASTIC SYSTEMS AT ALL TIMES.
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70. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL GLASS SYSTEMS AT ALL TIMES.
71. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL WOOD SYSTEMS AT ALL TIMES.
72. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL FABRIC SYSTEMS AT ALL TIMES.
73. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL PAPER SYSTEMS AT ALL TIMES.
74. CONTRACTOR SHALL MAINTAIN ACCESS TO ALL CARDBOARD SYSTEMS AT ALL TIMES.

N

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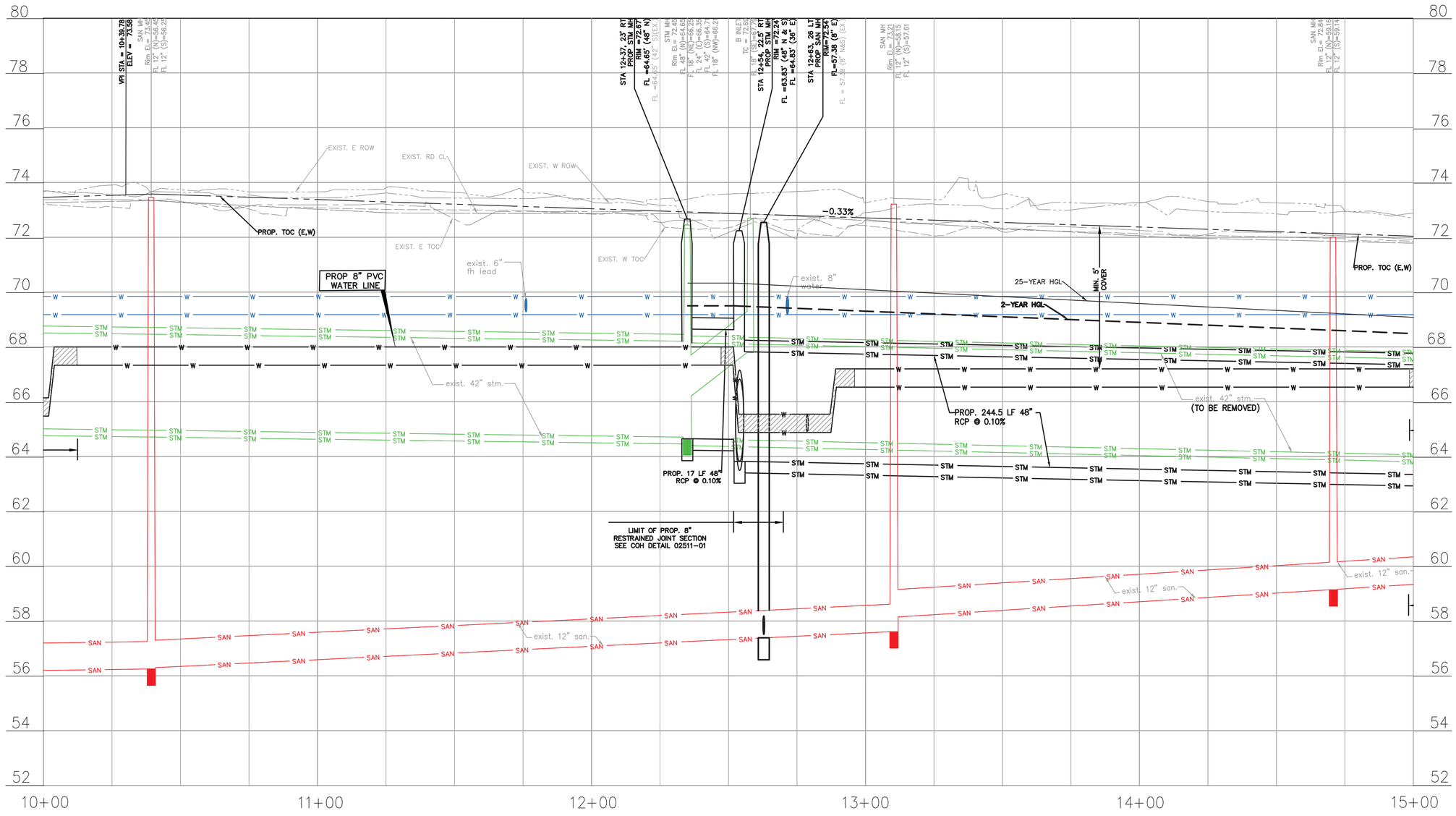
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ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 113 OF 369	

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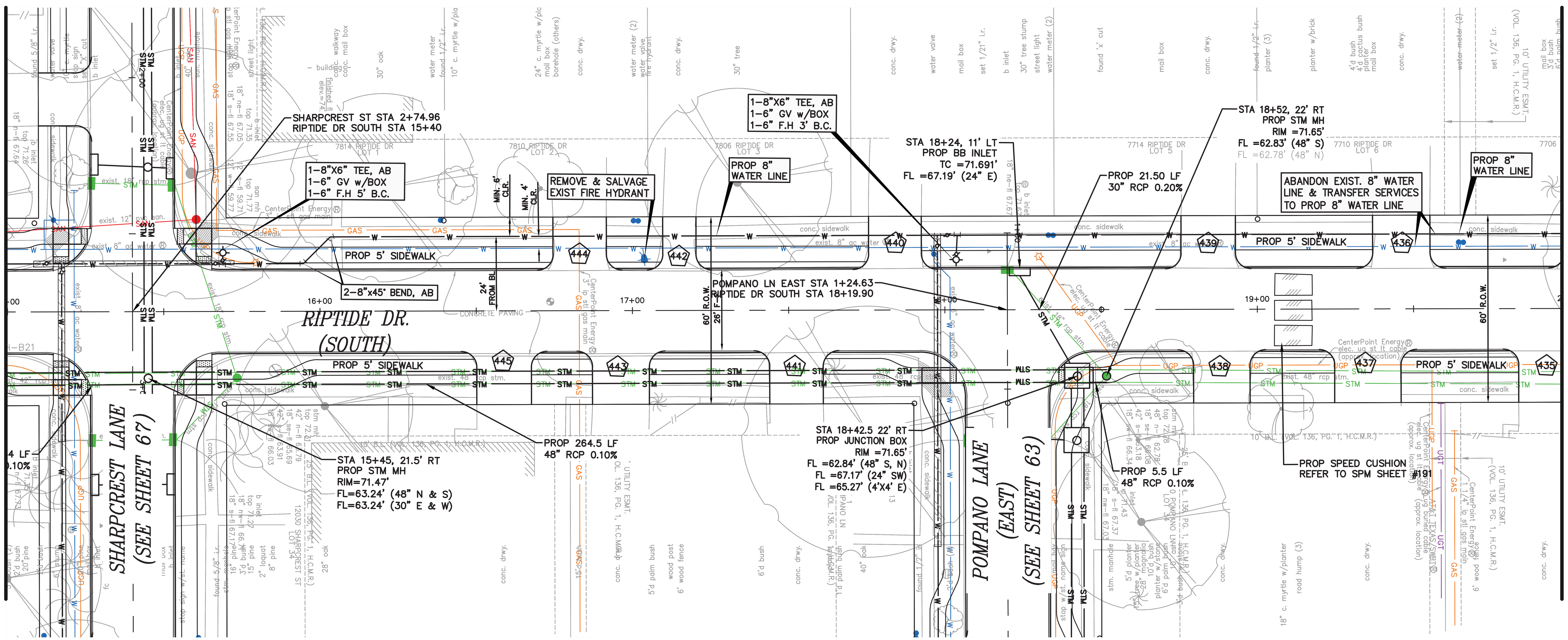
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SHEET NO. 114 OF 369	

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NO.	DATE	REVISION	APP.

MATCH LINE STA 15+00
SEE SHEET 113



MATCH LINE STA 20+00
SEE SHEET 117

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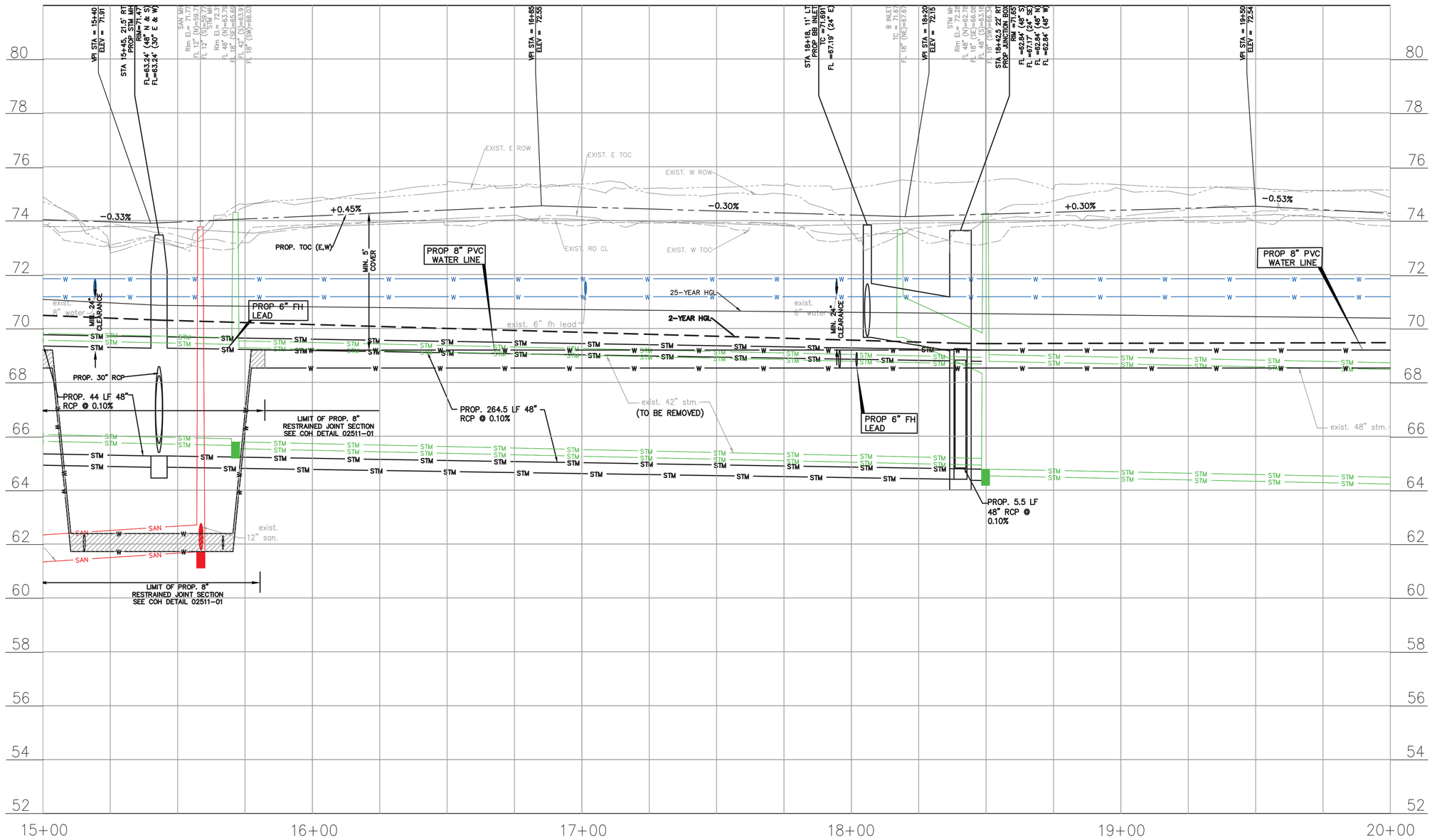
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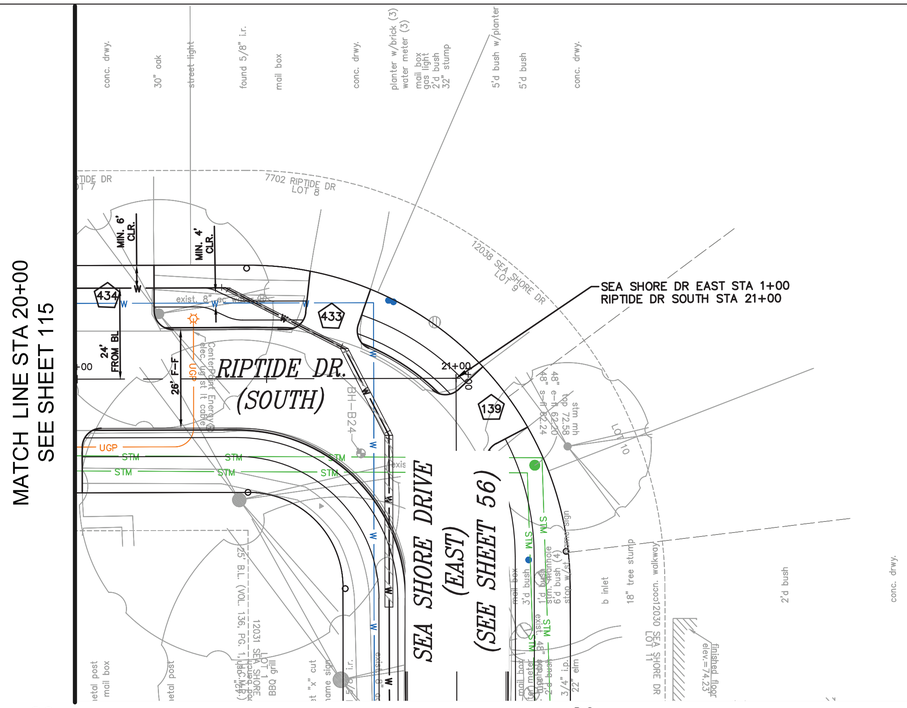
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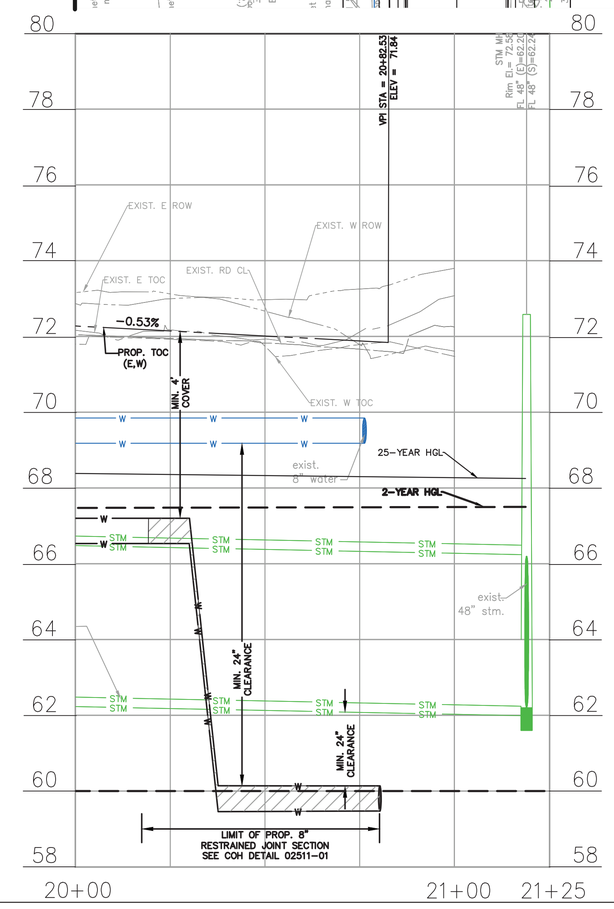
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SHEET NO. 116 OF 369	

PLOTTED: 8/14/2026 9:58 AM

MATCH LINE STA 20+00
SEE SHEET 115





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VERTICAL DATUM ADJUSTMENT:

THE ELEVATION DIFFERENCE IN BETWEEN THE FLOODPLAIN REFERENCE MARK'S (RM 040565) PUBLISHED DATUM NAVD 1988, 2001 ADJUSTMENT AND DATUM NAVD 1988, (GEOID '18) IS 0.30'.

NAVD 1988, 2001 ADJ. ELEVATION
= NAVD 1988, (GEOID '18) ELEVATION + 0.30 FEET.

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VERIFICATION OF PRIVATE UTILITY LINES

Date

CenterPoint Energy natural gas utilities shown. (Gas service lines are not shown). This signature not be used for conflict verification.

Signature valid for six months.

Date

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Signature valid for six months.

Date

Approved for AT&T underground conduit facilities only.
Signature valid for one year.

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Houston, Texas 77042
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F 713 748 3748
TBPE Firm Reg. #4575

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FB NO. P-6382

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

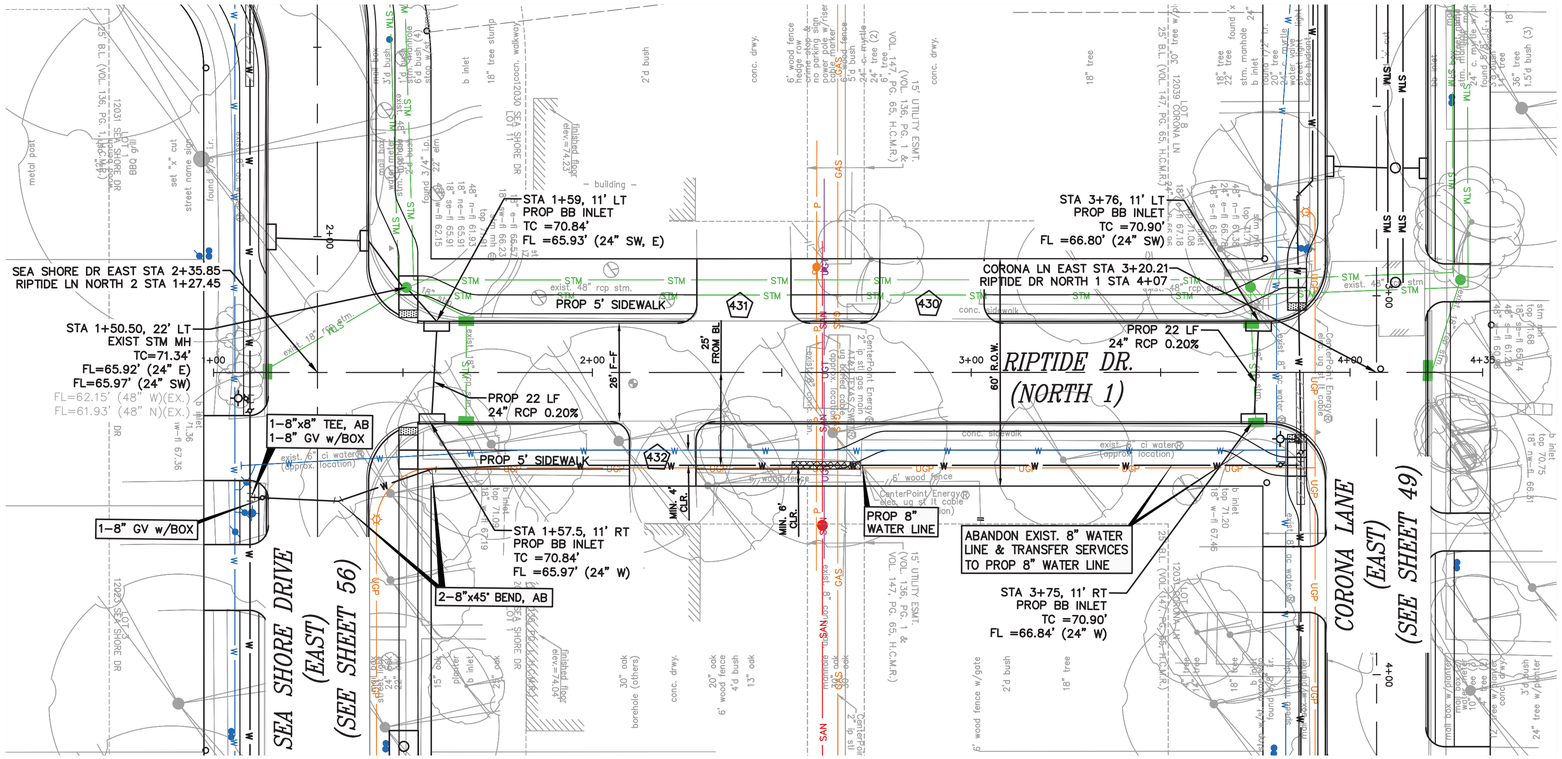
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HOUSTON PUBLIC WORKS

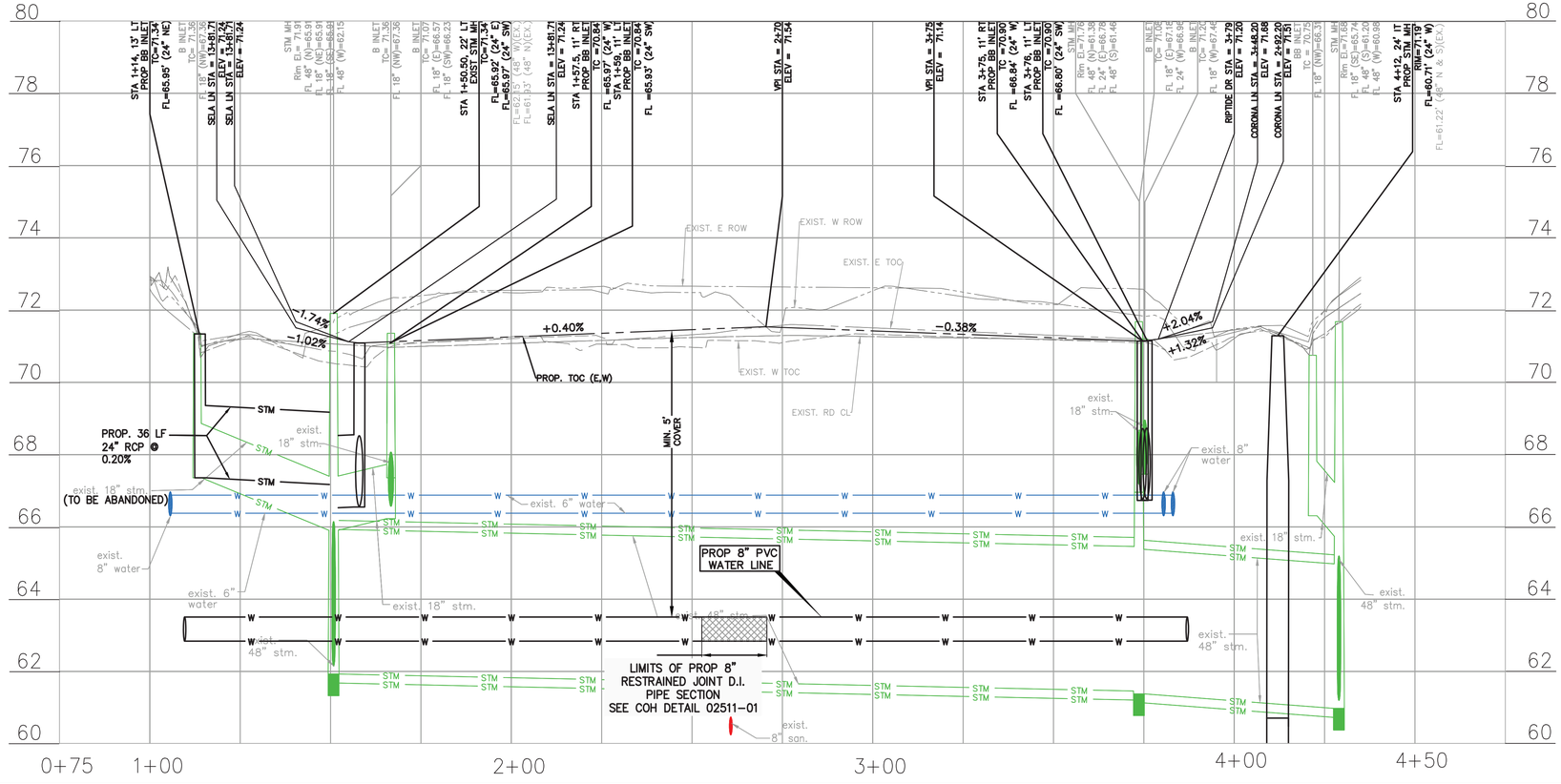
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

RIPTIDE DRIVE (SOUTH)
PLAN & PROFILE
STA 20+00 TO END

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 117 OF 369	

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FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\PP Cutsheet 2.dwg

NO.	DATE	REVISION	APP.

N

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
1" = 2'-0" FEET V FOR 22"X34" SHEET

BENCHMARK:

CITY OF HOUSTON MONUMENT 4854-8109, A BRASS DISK IN CONCRETE, LOCATED AT SOUTHWEST CORNER OF THE INTERSECTION
OF SHARPCREST LN AND RIPTIDE RD.

ELEV. 72.01 FEET NAVD 1988 (GEOID '18)*

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ENGINEER: RAHUL B MENON, P.E
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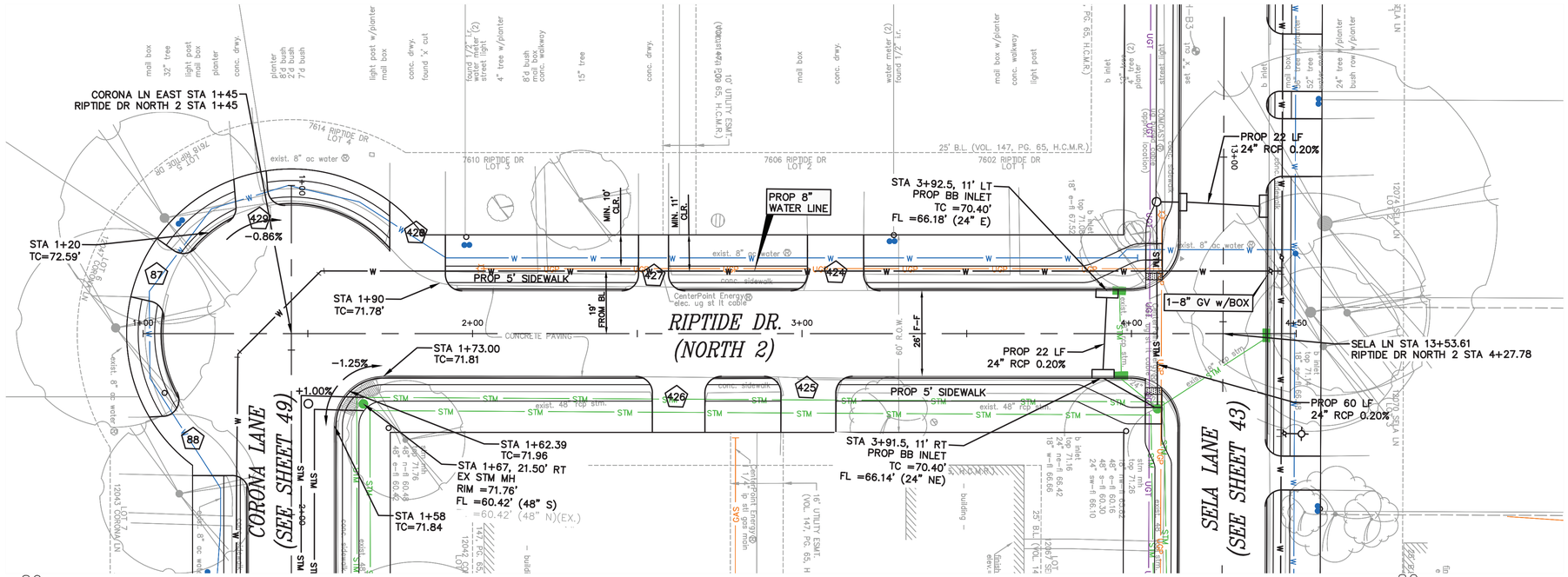
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HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

RIPTIDE DRIVE (NORTH 1)
PLAN & PROFILE
STA START TO END

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 118 OF 369	



N

20 0 10 20 40

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
1" = 2'-0" FEET V FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

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ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

RIPTIDE DRIVE (NORTH 2)
PLAN & PROFILE
STA START TO END

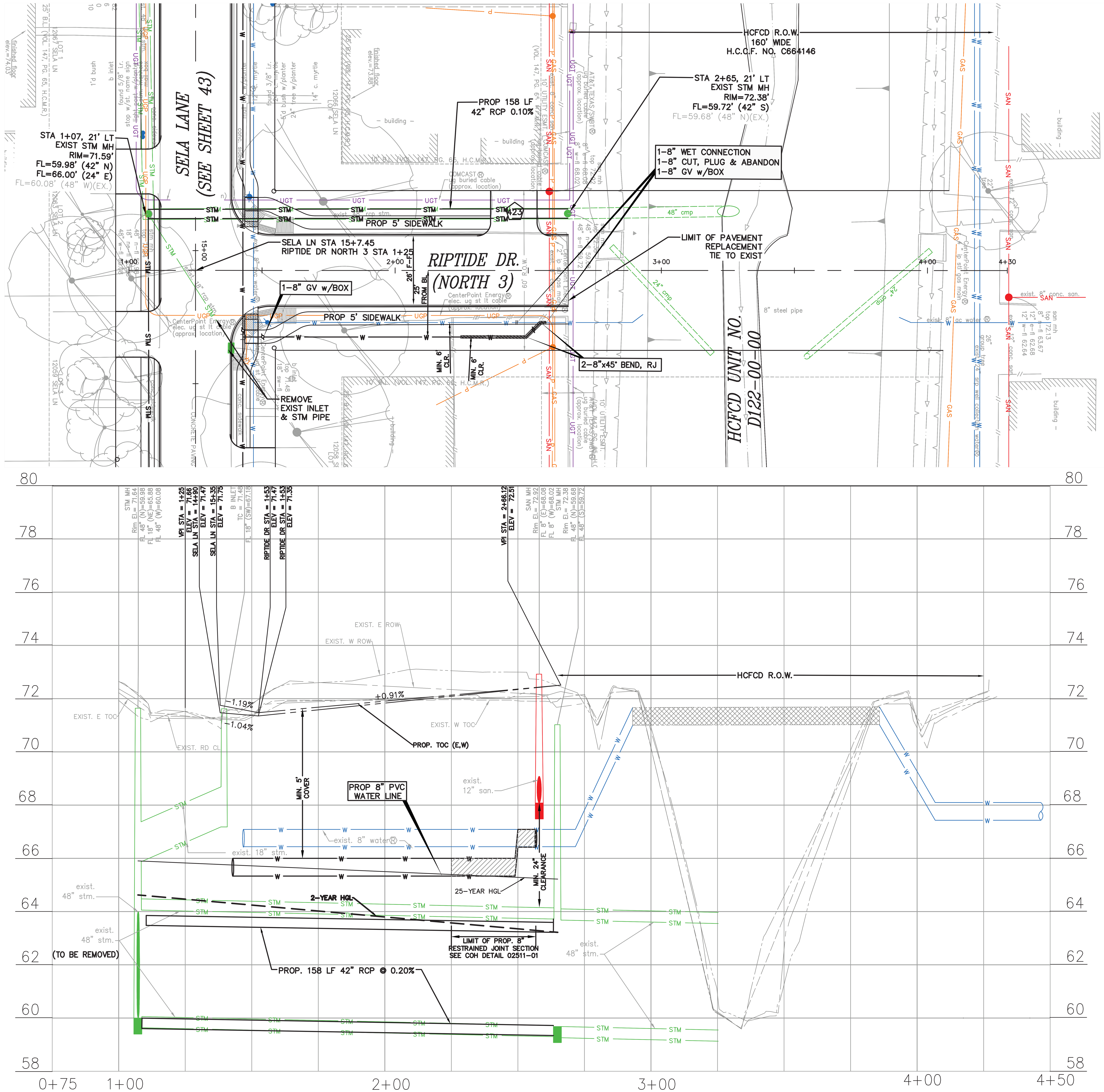
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1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 119 OF 369	

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PLOTTED: 8/14/2026 9:37 AM

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NO.	DATE	REVISION	APP.

N

SCALE: 1" = 20'-0" FEET H FOR 22"X34" SHEET
1" = 2'-0" FEET V FOR 22"X34" SHEET

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

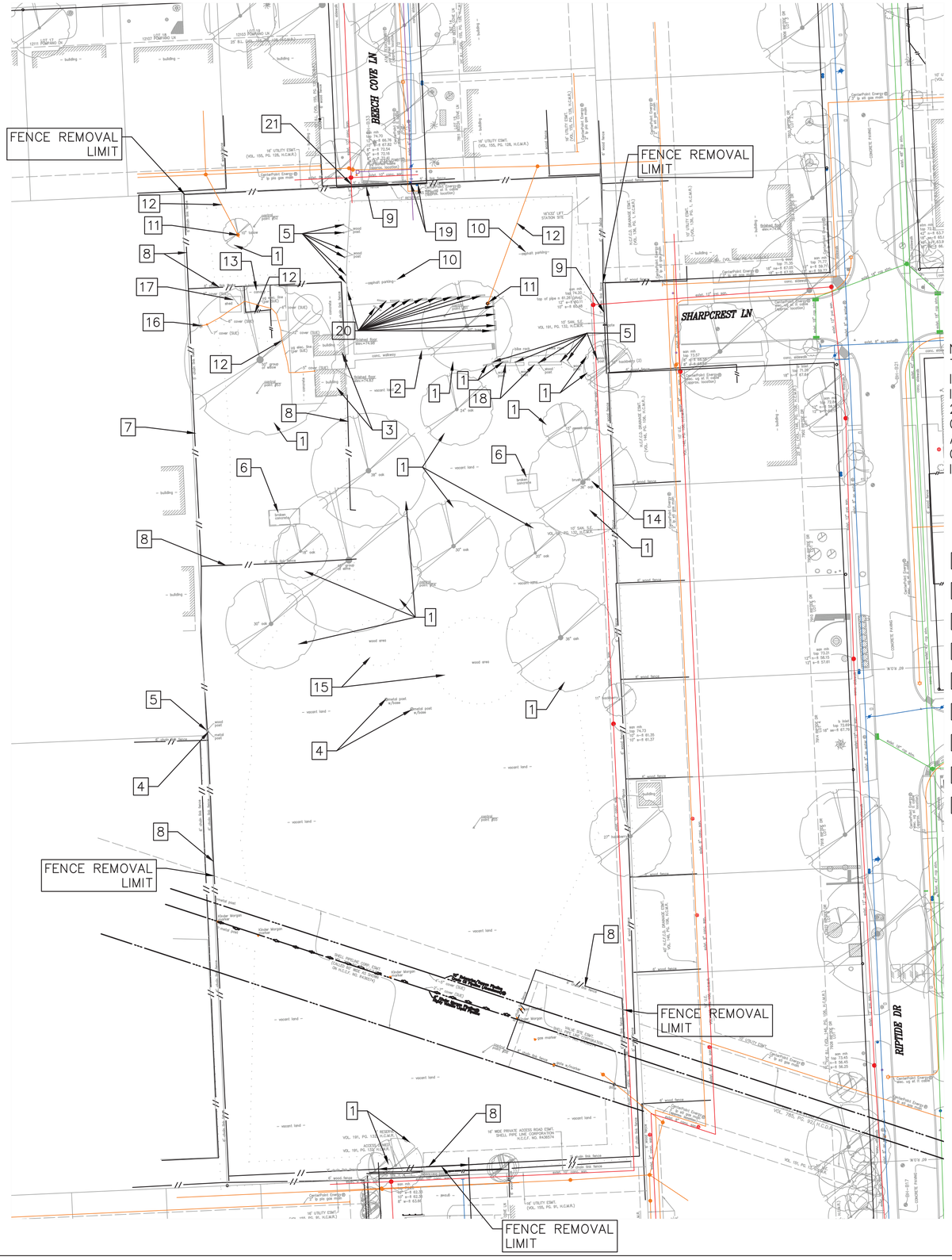
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HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

RIPTIDE DRIVE (NORTH 3)
PLAN & PROFILE
STA START TO END

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
1"= 20' H, 1"= 2' V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 120 OF 369	



NOTE:
THE BULK ASBESTOS AND LEAD INSPECTION REPORT PREPARED BY INCONTROL TECHNOLOGIES ON JUNE 3, 2024, PROVIDES ENVIRONMENTAL CLEARANCE FOR DEMOLITION ACTIVITIES AT THE PROPERTY, AS NO ASBESTOS OR LEAD BASED PAINT HAZARDS WERE IDENTIFIED.

KEY NOTES:

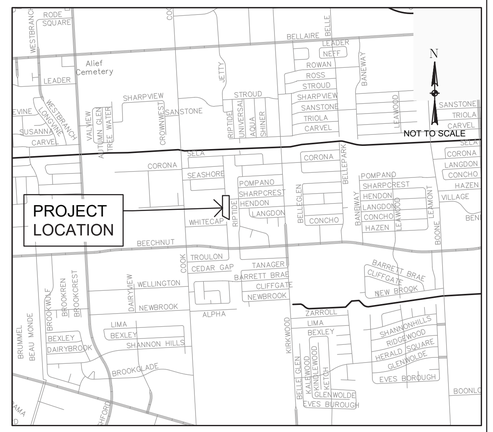
1. REMOVE EXISTING TREE
2. REMOVE EXISTING CONC. WALKWAY
3. REMOVE EXISTING BUILDING
4. REMOVE EXISTING METAL POST
5. REMOVE EXISTING WOODEN POST
6. REMOVE EXISTING BROKEN CONCRETE
7. REMOVE EXISTING 5' CHAIN LINK FENCE
8. REMOVE EXISTING 6' CHAIN LINK FENCE
9. REMOVE EXISTING 7' CHAIN LINK FENCE
10. REMOVE EXISTING ASPHALT PARKING
11. REMOVE EXISTING ELECTRIC POLE
12. REMOVE EXISTING UG ELECTRIC LINE
13. REMOVE EXISTING CANOPY
14. REMOVE EXISTING BUSH AREA
15. REMOVE EXISTING WOOD AREA
16. REMOVE EXISTING LIGHT POLE
17. REMOVE EXISTING SHED
18. REMOVE EXISTING BIKE RACK
19. REMOVE EXISTING WATER METER
20. REMOVE EXISTING WHEEL STOPS
21. CUT, PLUG AND REMOVE EXISTING 3-8" SANITARY LINE WITHIN THE FOOTPRINT OF PROPOSED DETENTION POND

N

30 0 15 30 60

SCALE: 1" = 30'-0" FEET FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.



VICINITY MAP
KEY MAP NO 529J & 529N
GIMS MAP NO
COH COUNCIL DISTRICT F

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ENGINEER: RAHUL B MENON, P.E
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DATE: JULY 2026

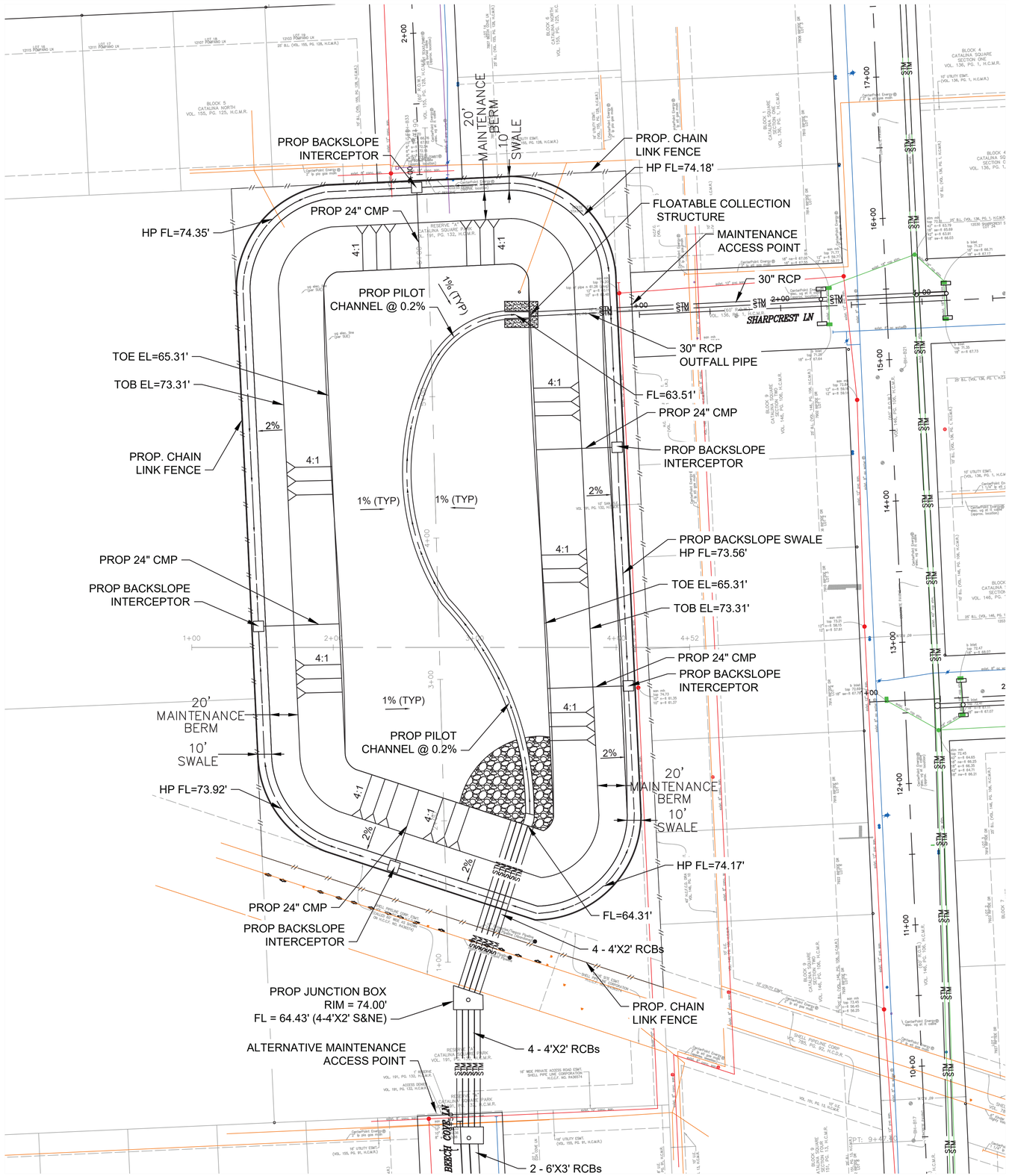
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HOUSTON PUBLIC WORKS

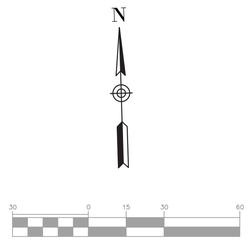
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
PROPOSED DETENTION POND 1 DEMOLITION PLAN

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1" = 40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 121 OF 369	

PLOTTED: 7/16/2026 5:35 PM

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NO.	DATE	REVISION	APP.

ABBREVIATIONS:

1. EL = ELEVATION
2. FL = FLOWLINE
3. HP = HIGH POINT
4. TOB = TOP OF BANK
5. TOE = TOE OF EDGE

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VERIFICATION OF PRIVATE UTILITY LINES

Date

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P.E. Reg No: 130533
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CITY OF HOUSTON
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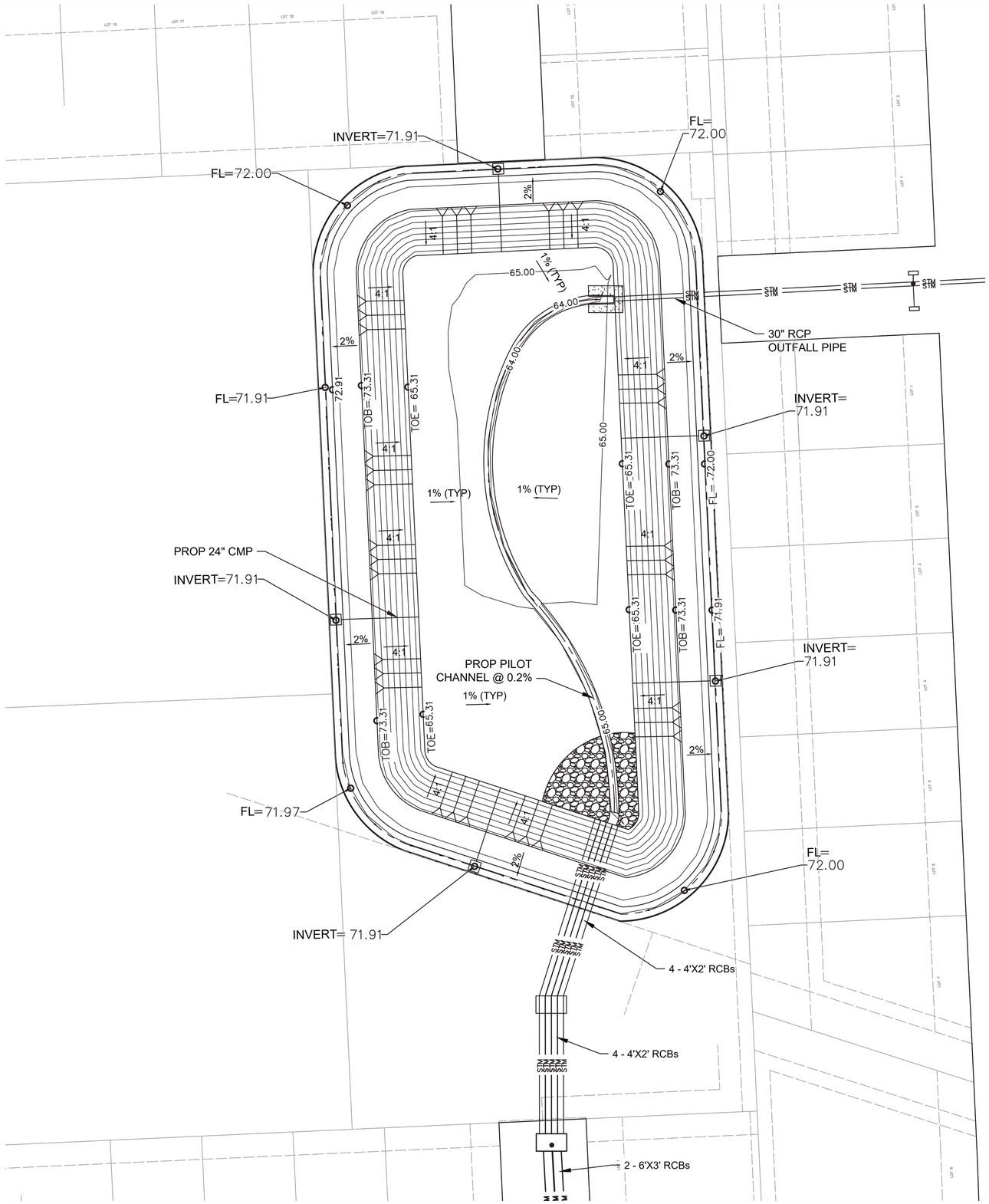
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PROPOSED DETENTION POND 1 PLAN

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1" = 40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 122 OF 369	

PLOTTED: 8/13/2026 3:42 PM

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ABBREVIATIONS:

1. FL = FLOWLINE
2. TOB = TOP OF BANK
3. TOE = TOE OF EDGE

N

40 0 20 40 80

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.

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CITY OF HOUSTON
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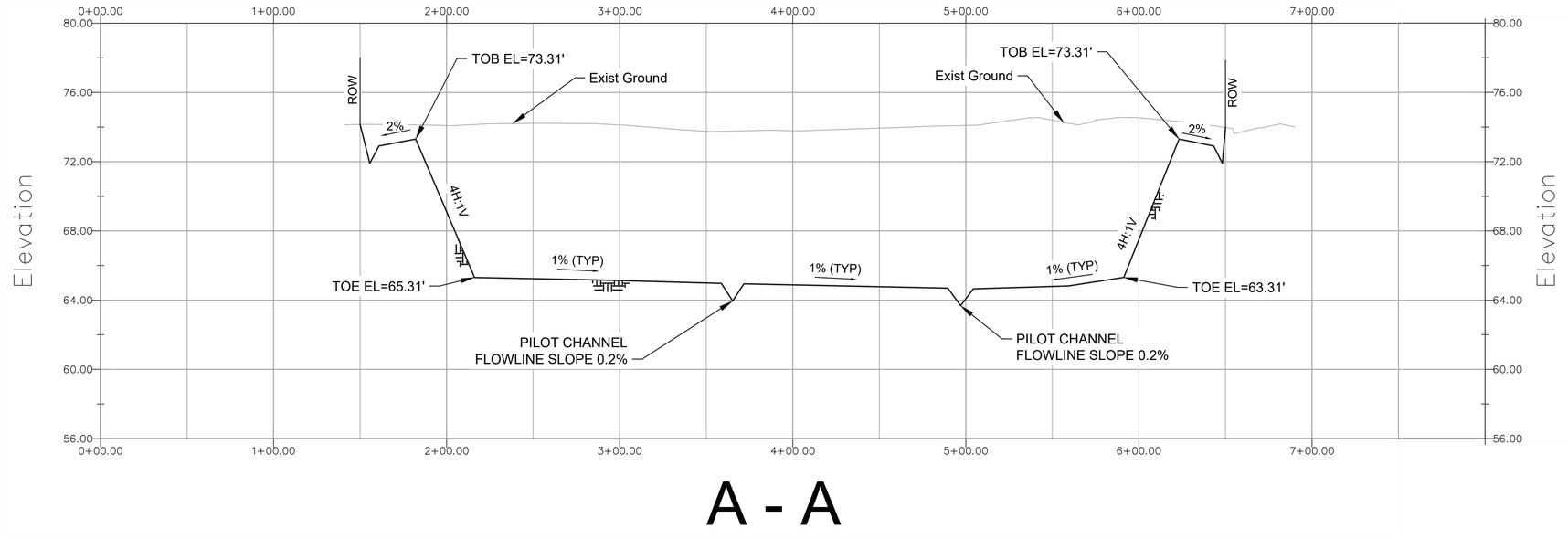
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

PROPOSED DETENTION POND 1 GRADING

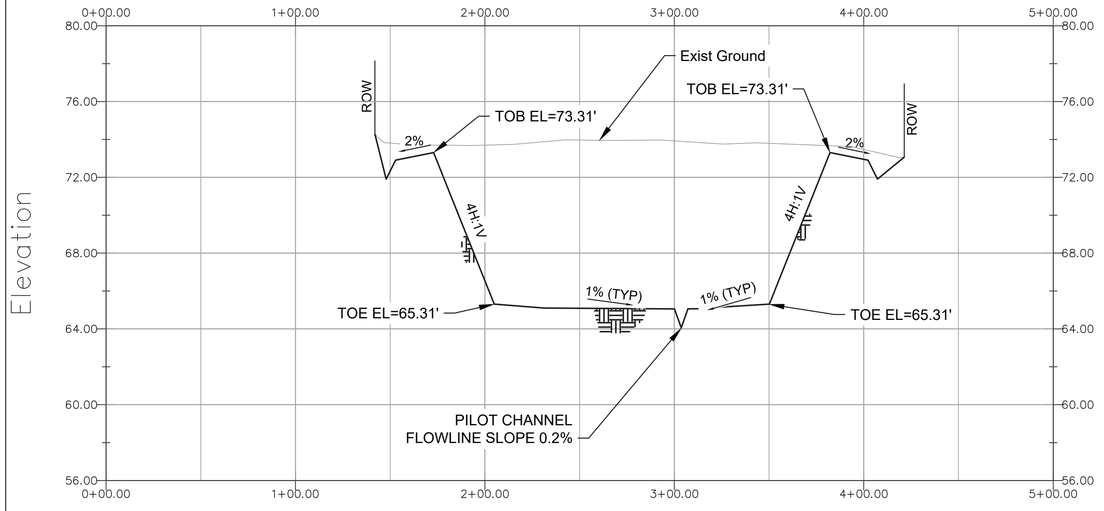
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N-210015-0001-3	
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1" = 40'	
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ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 123 OF 369	

PLOTTED: 7/16/2026 5:35 PM

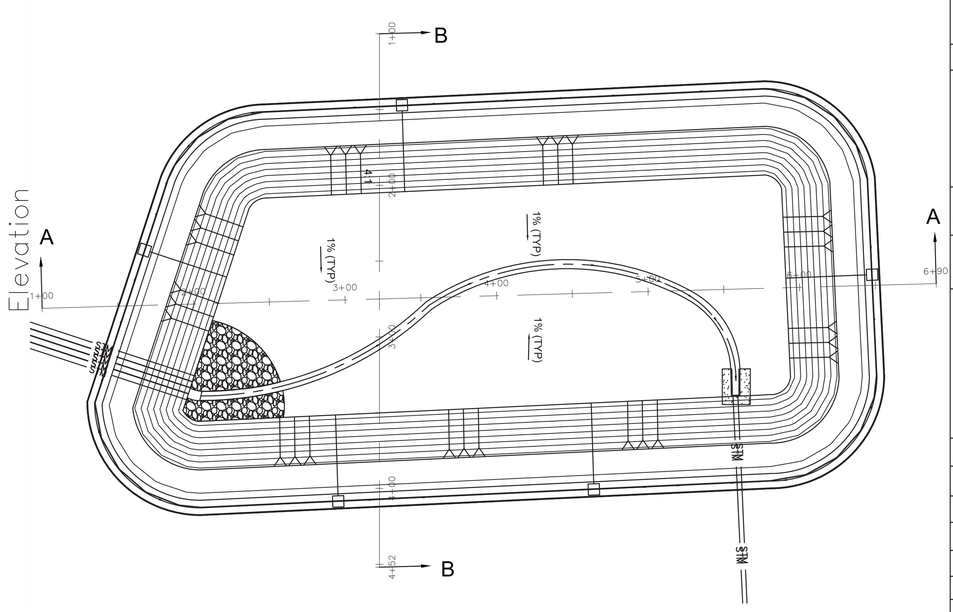
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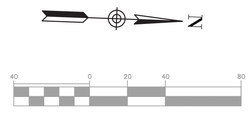


A - A



B - B





SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

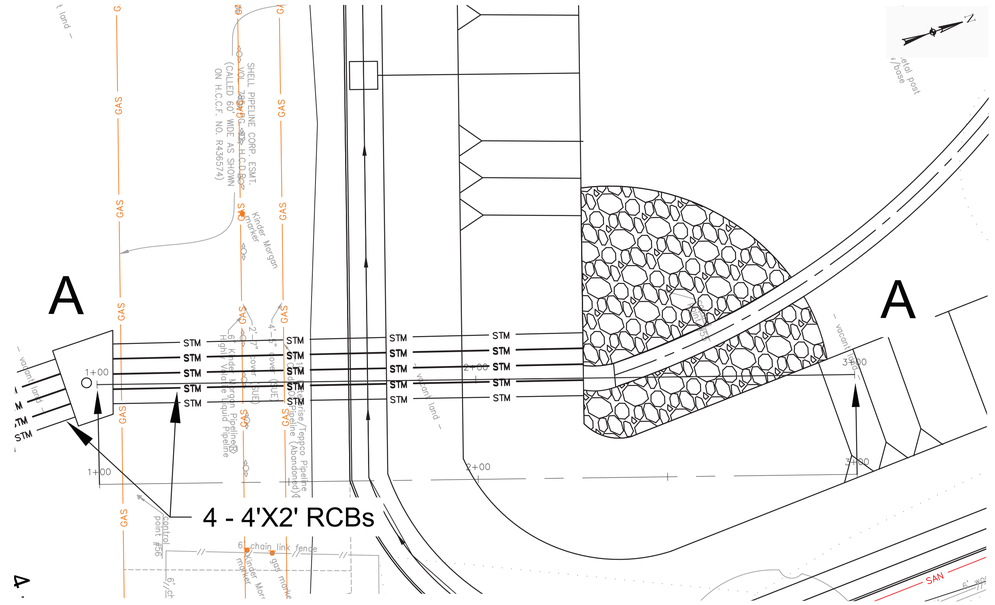
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ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
PROPOSED DETENTION POND 1
PROFILE

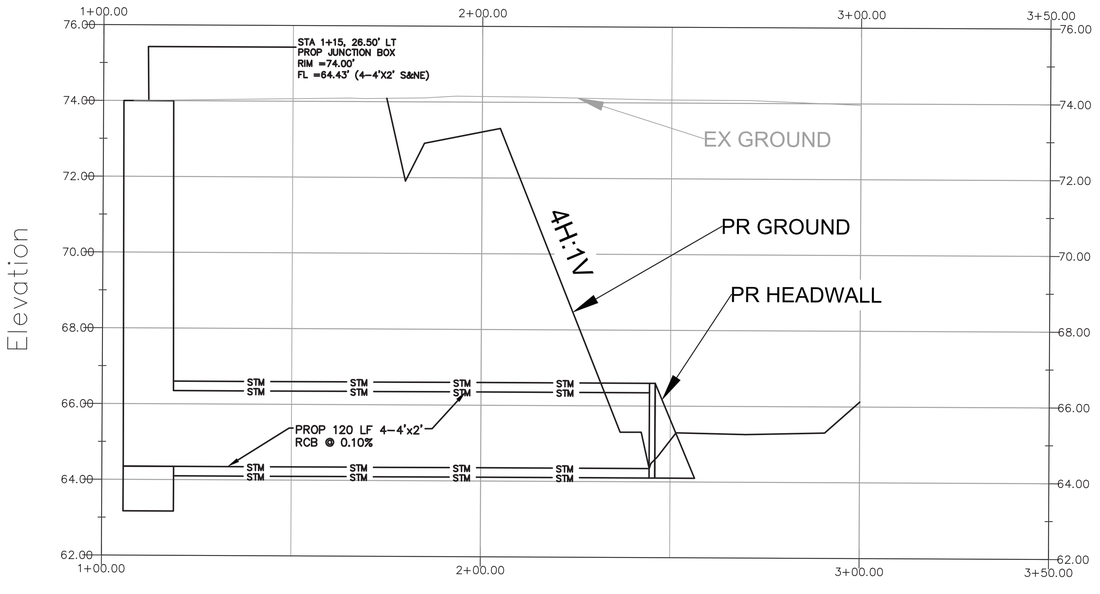
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CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 124 OF 369	

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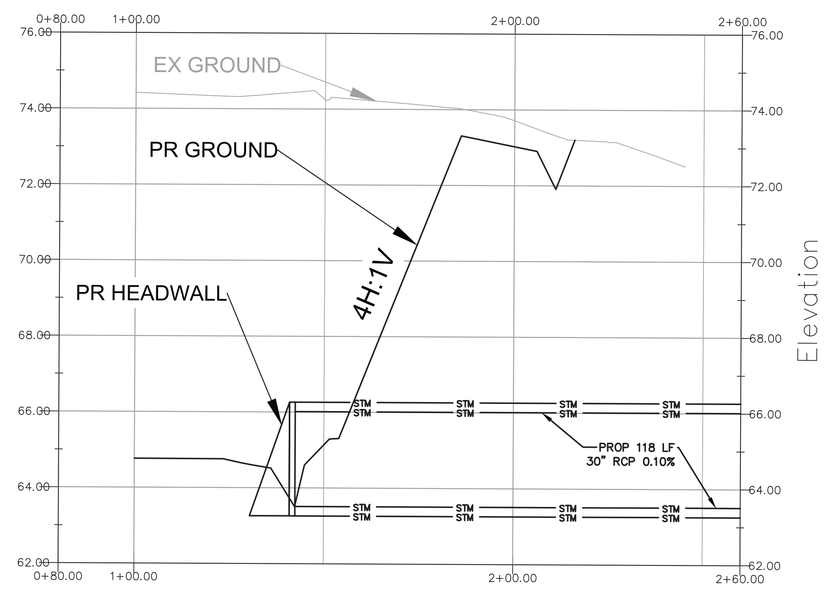


INFLOW PIPE

OUTFLOW PIPE



A - A



B - B

N

20 0 10 20 40

SCALE: 1" = 20'-0" FEET FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.

ABBREVIATIONS:

1. EX=EXISTING
2. PR=PROPOSED

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Signature valid for one year.

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10448 Westoffice Drive
Houston, Texas 77042
P 713 747 2399
F 713 748 3748
TBPE Firm Reg. #4575

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P-6382

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

PROPOSED DETENTION POND 1 INFLOW & OUTFLOW PIPES

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 125 OF 369	

PLOTTED: 8/13/2026 4:57 PM

FILE PATH: P:\ACTIVE\18PV97 - 2024 Update\Ph II\Working\CAD\18PV97_Pond 1 - Inflow-Outflow Structures.dwg

NOTE

1. INSTALLATION OF STORMWATER POLLUTION PREVENTION MEASURES SHALL BE COMPLETED PRIOR TO LAND DISTURBING ACTIVITIES IN THE ASSOCIATED DRAINAGE AREA. CLEARING AND GRUBBING OPERATIONS MAY PROCEED CONCURRENTLY WITH THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES WHERE APPROVED BY THE ENGINEER.

2. STORMWATER POLLUTION PREVENTION STRUCTURES SHOWN WILL REMAIN IN PLACE UNTIL ENGINEER ACCEPTS CONSTRUCTION IS COMPLETED. CERTAIN CIRCUMSTANCES MAY REQUIRE STORMWATER POLLUTION PREVENTION MEASURES TO REMAIN IN PLACE UNTIL SITE HAS BEEN PERMANENTLY STABILIZED WITH VEGETATION, CONCRETE PAVING, RIPRAP, OR ARTICULATED CONCRETE BLOCK.

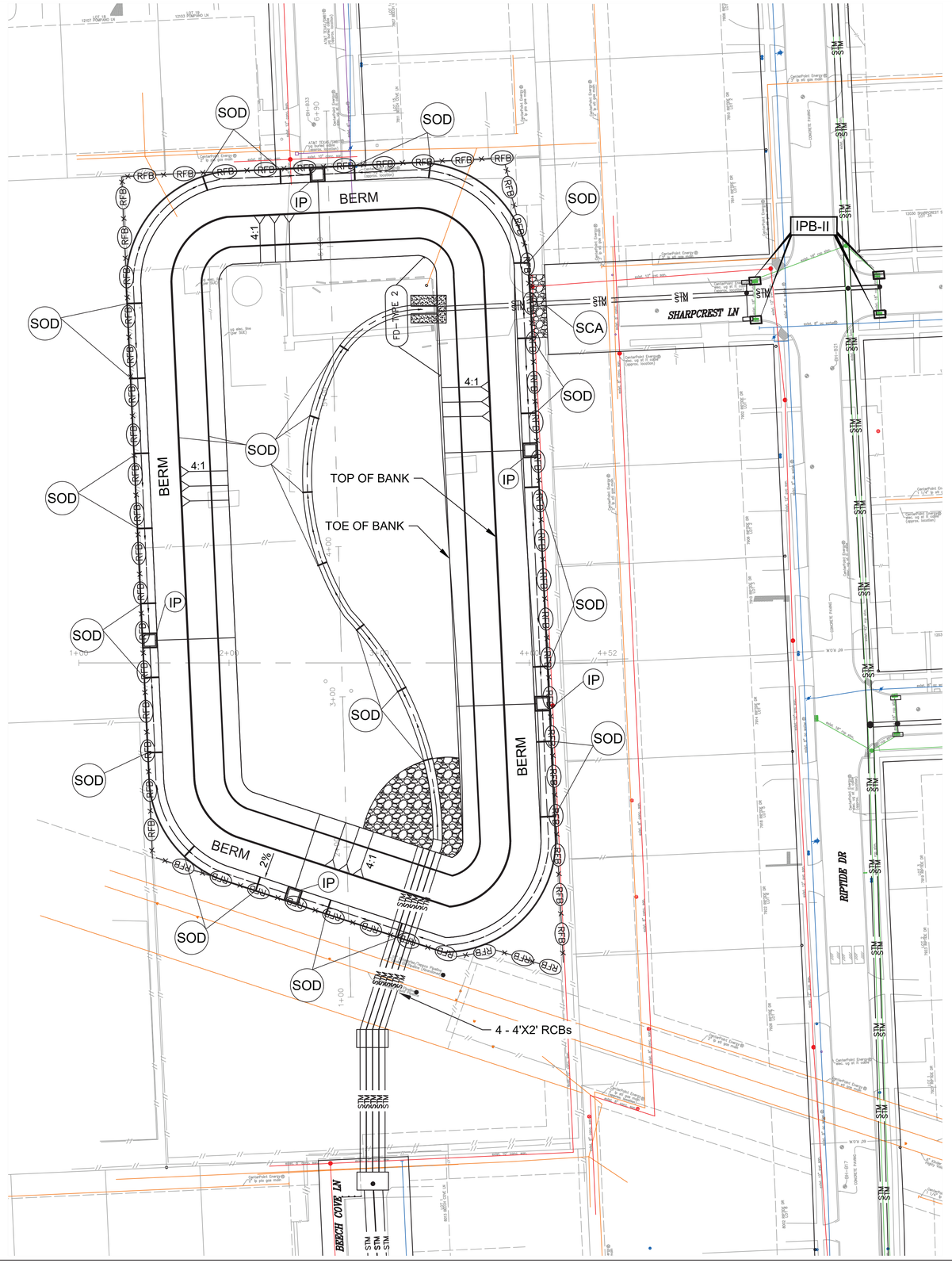
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4. OFF-SITE TRACKING OF SEDIMENT SHALL BE MINIMIZED. SEDIMENT TRACKED OFF-SITE SHALL BE REMOVED IMMEDIATELY AND DISPOSED OF BY CONTRACTOR AT HIS EXPENSE AT AN APPROVED LOCATION.

5. REINFORCED FILTER FABRIC BARRIER SHALL BE USED AROUND ALL STOCKPILES. DISTURBED AREAS, AND AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION AND HAVE THE POTENTIAL FOR STORM POLLUTION ENTERING THE DRAINAGE SYSTEM.

6. INSTALL SOD AROUND THE BACKSLOPE INTERCEPTOR, ACROSS THE SWALES AND ALONG THE SLOPES OF THE CHANNEL.

7. SCAs NEED TO BE PROVIDED AT ALL ACCESS POINTS. ALTERNATE ACCESS POINTS NEED TO BE APPROVED BY THE ENGINEER.



N

SCALE: 1" = 30'-0" FEET FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.

LEGEND

IPB-I	INLET PROTECTION BARRIER STAGE I
IPB-II	INLET PROTECTION BARRIER STAGE II
SCA	STABILIZED CONSTRUCTION ACCESS
IP	INTERCEPTOR STRUCTURE & INLET PROTECTION
SOD	SODDING
FD-2	ROCK FILTER DAM
	FLOW DIRECTION
RFB RFB	REINFORCED FILTER FABRIC BARRIER

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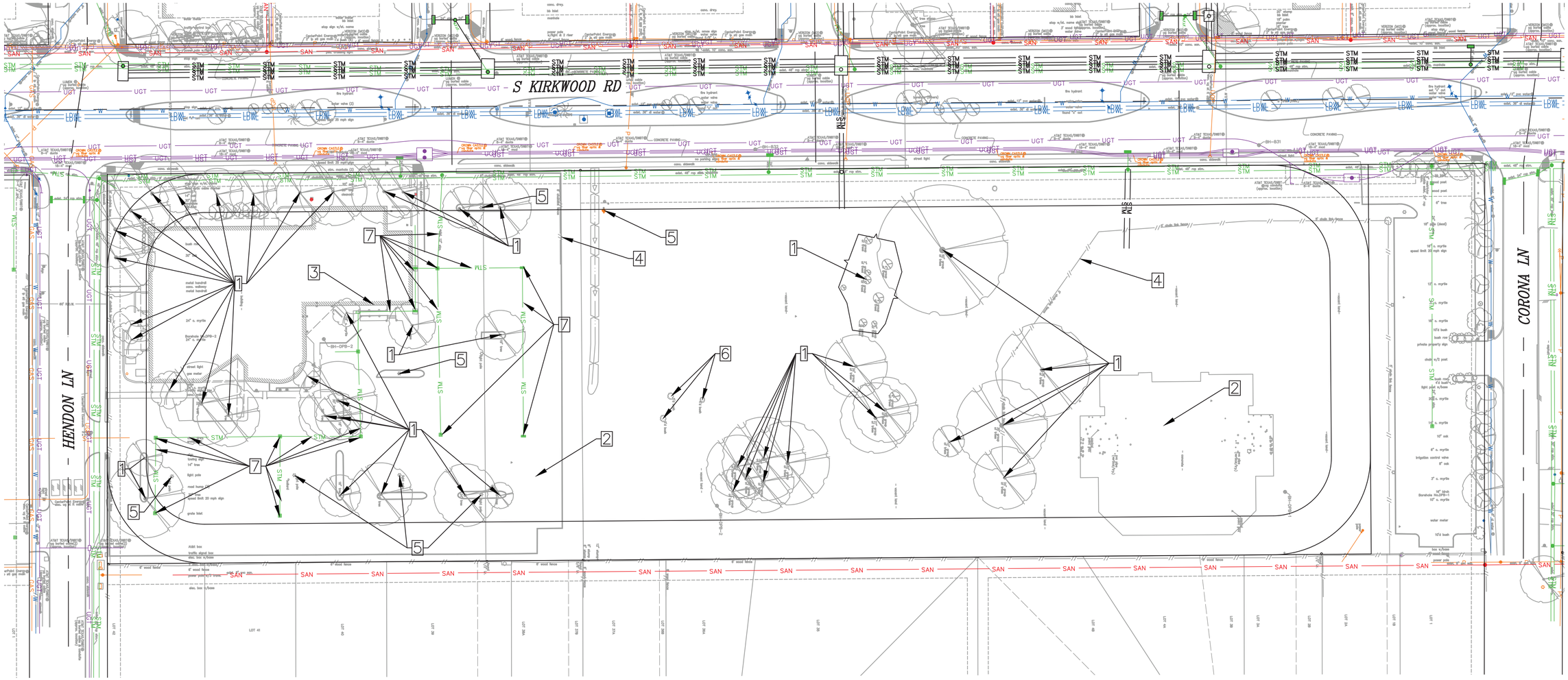
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DOCUMENT INCOMPLETE;
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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
STORMWATER POLLUTION PREVENTION PLAN LAYOUT POND 1

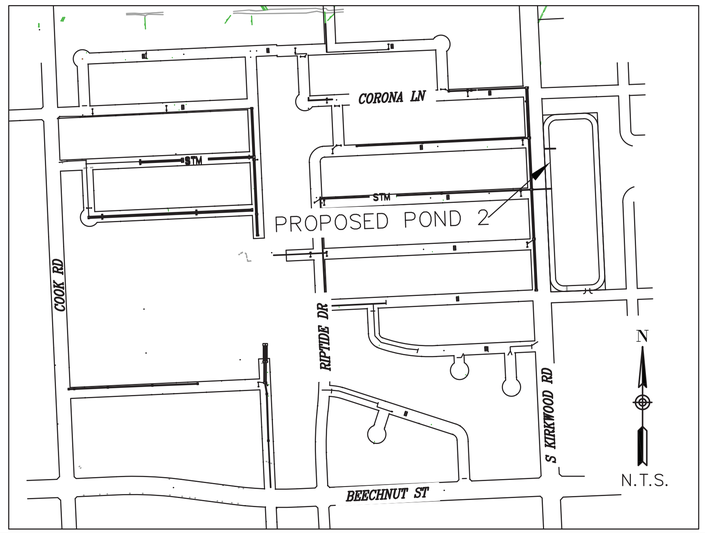
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N-210015-0001-3	
DRAWING SCALE	
1" = 30'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 126 OF 369	

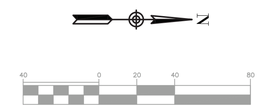
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KEY NOTES:

1. REMOVE EXISTING TREE
2. REMOVE EXISTING CONC. PAVEMENT
3. REMOVE EXISTING BUILDING
4. REMOVE EXISTING CHAIN LINK FENCE
5. REMOVE EXISTING LIGHT/ELECTRIC POLE
6. REMOVE EXISTING BUSH AREA
7. REMOVE EXISTING STORM SEWER & INLET





SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P-6382

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

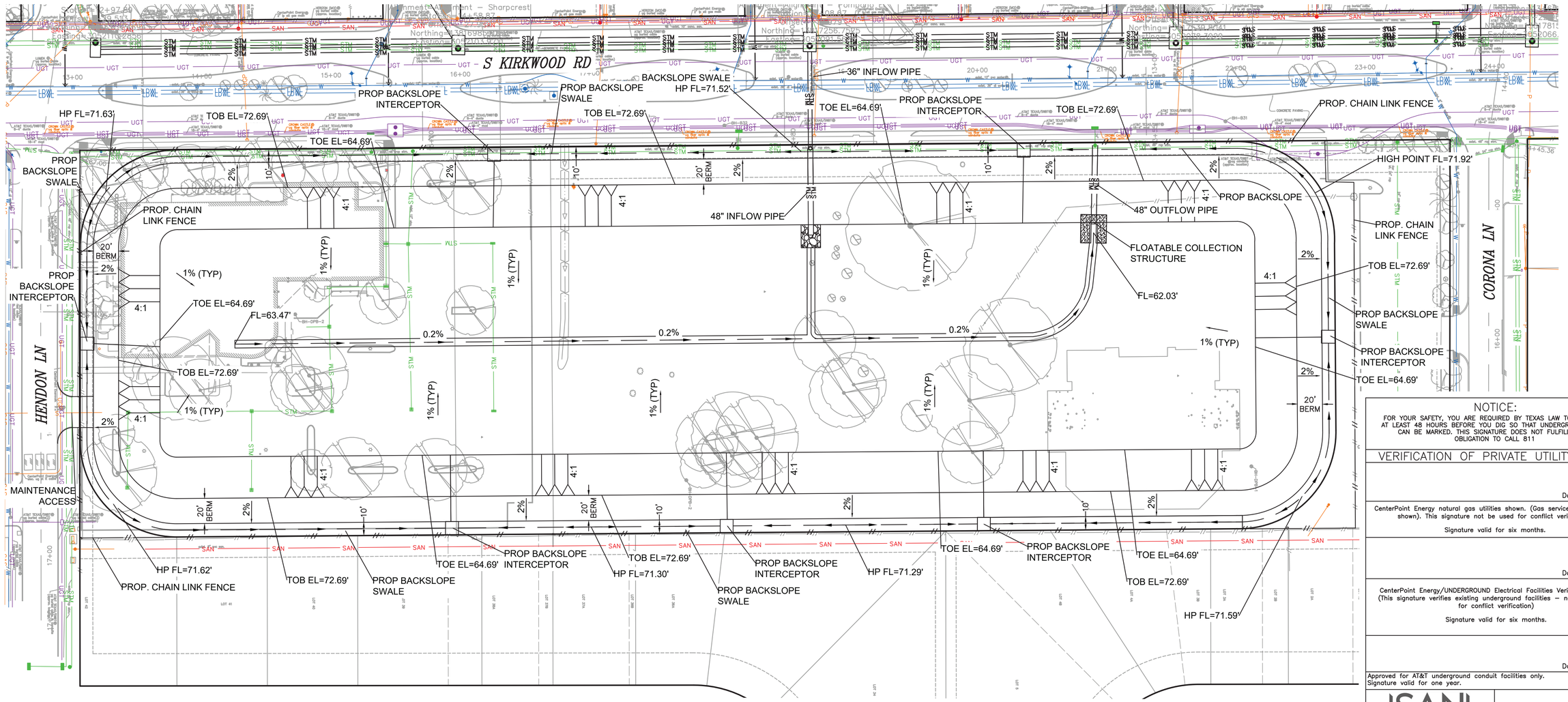
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

PROPOSED DETENTION POND 2 DEMOLITION PLAN

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 127 OF 369	

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PLOTTED: 8/13/2026 4:48 PM



ABBREVIATIONS:

1. EL=ELEVATION
2. FL=FLOWLINE
3. HP=HIGH POINT
4. TOB=TOP OF BANK
5. TOE=TOE OF EDGE

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.

NOTICE:
FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811

VERIFICATION OF PRIVATE UTILITY LINES

Date

CenterPoint Energy natural gas utilities shown. (Gas service lines are not shown). This signature not be used for conflict verification.

Signature valid for six months.

Date

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P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

PROPOSED DETENTION POND 2 PLAN

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 128 OF 369	

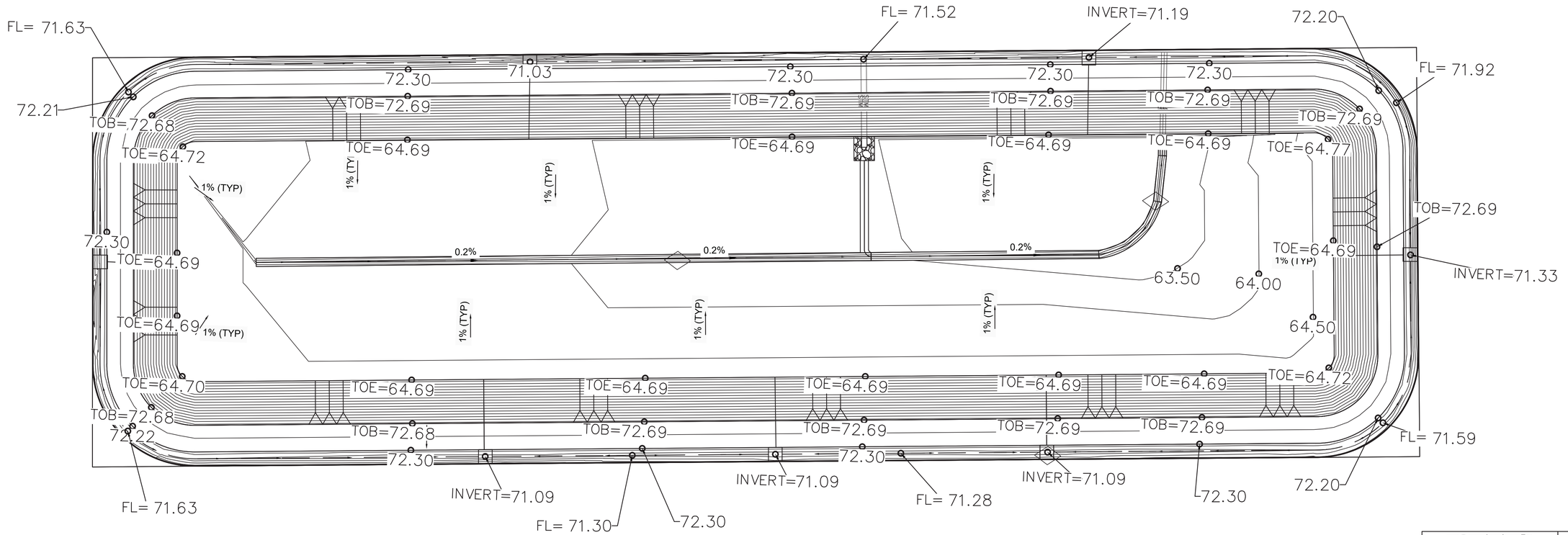
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NO.	DATE	REVISION	APP.

40 0 20 40 80

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET



ABBREVIATIONS:

1. FL=FLOWLINE
2. HP=HIGH POINT
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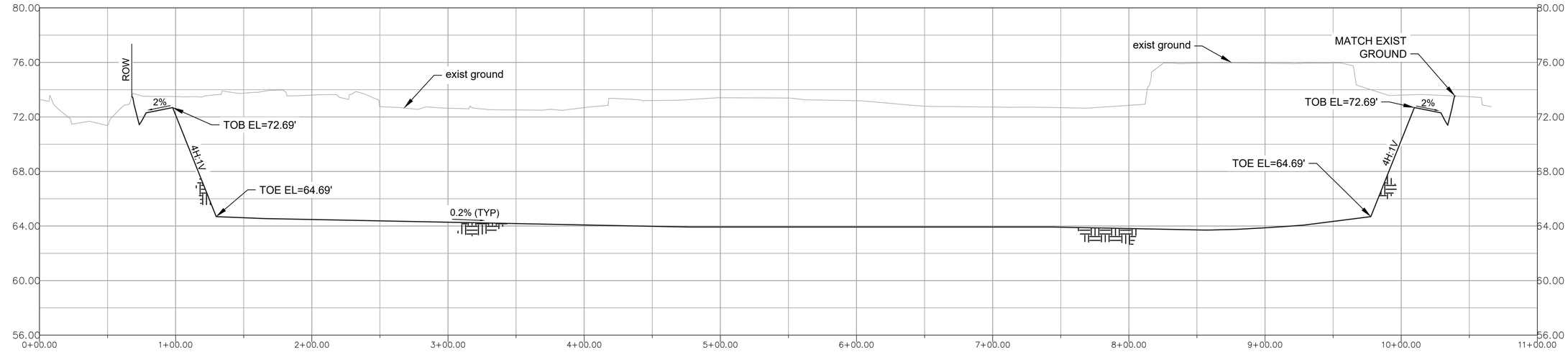
CITY OF HOUSTON

HOUSTON PUBLIC WORKS

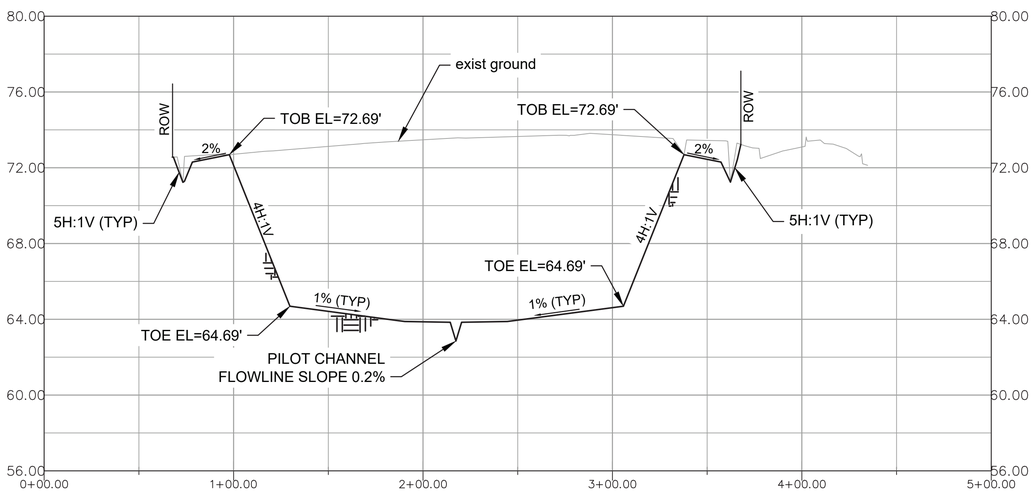
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

PROPOSED DETENTION POND 2 GRADING PLAN

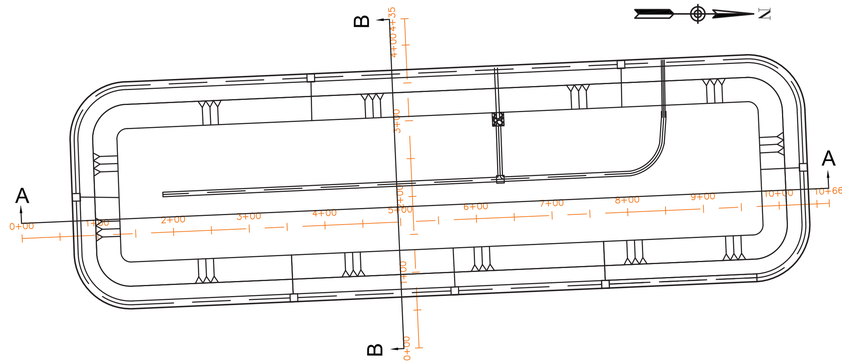
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N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 129 OF 369	



A - A



B - B



NO.	DATE	REVISION	APP.

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P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

PROPOSED DETENTION POND 2 PROFILE

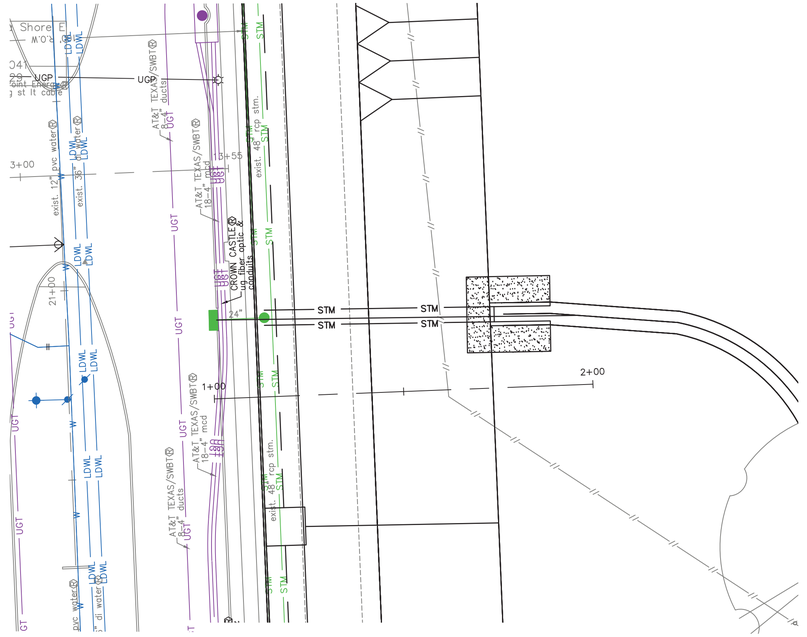
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=100' PLAN 1"=40'H; 1"=4'V PROFILE	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 130 OF 369	

PLOTTED: 8/13/2026 4:23 PM

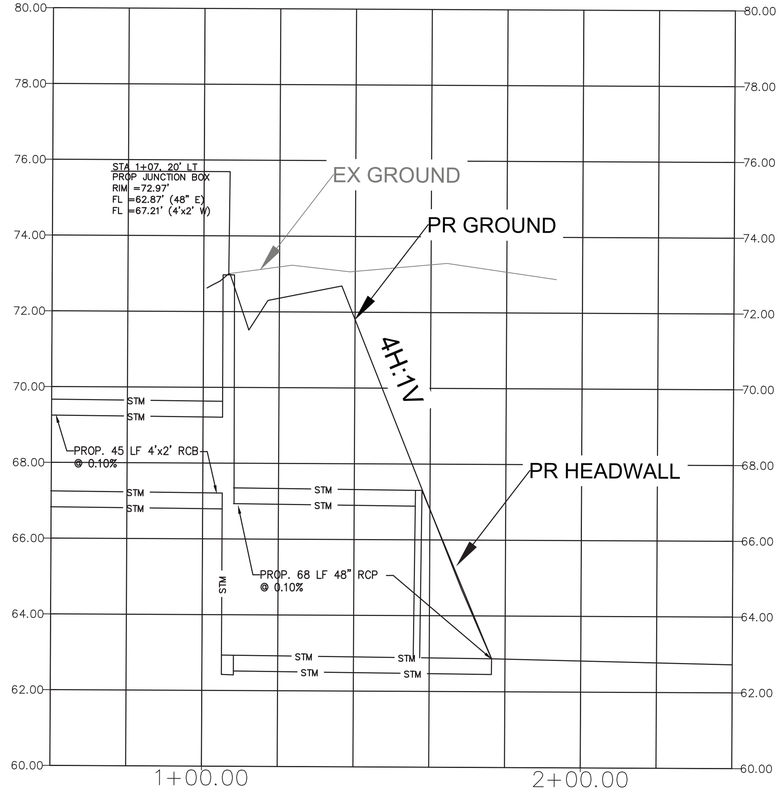
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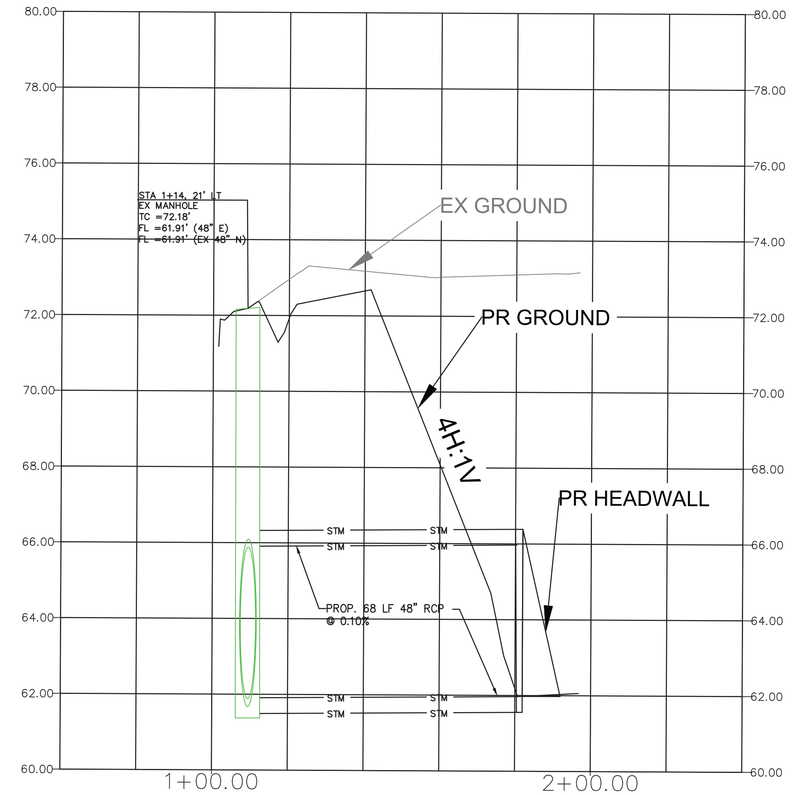


INFLOW PIPE



OUTFLOW PIPE





ABBREVIATIONS:
1. EX=EXISTING
2. PR=PROPOSED

N

20 0 10 20 40

SCALE: 1" = 20'-0" FEET FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P-6382

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

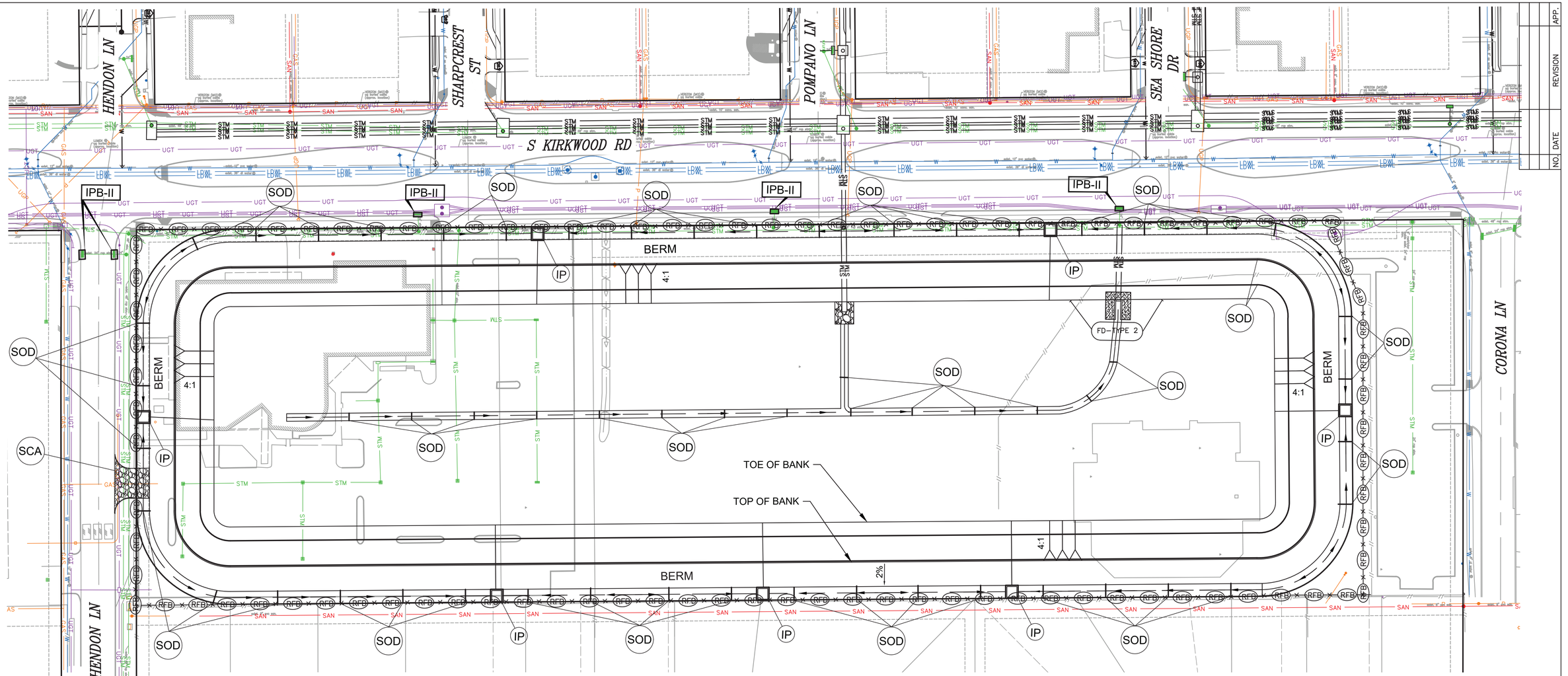
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

PROPOSED DETENTION POND 2 INFLOW & OUTFLOW PIPES

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=20'H; 1"=2'V	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 131 OF 369	

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NOTE

1. INSTALLATION OF STORMWATER POLLUTION PREVENTION MEASURES SHALL BE COMPLETED PRIOR TO LAND DISTURBING ACTIVITIES IN THE ASSOCIATED DRAINAGE AREA. CLEARING AND GRUBBING OPERATIONS MAY PROCEED CONCURRENTLY WITH THE INSTALLATION OF EROSION AND SEDIMENT CONTROL MEASURES WHERE APPROVED BY THE ENGINEER.

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7. SCAs NEED TO BE PROVIDED AT ALL ACCESS POINTS. ALTERNATE ACCESS POINTS NEED TO BE APPROVED BY THE ENGINEER.

40 0 20 40 80

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

LEGEND

IPB-I	INLET PROTECTION BARRIER STAGE I
IPB-II	INLET PROTECTION BARRIER STAGE II
SCA	STABILIZED CONSTRUCTION ACCESS
IP	INTERCEPTOR STRUCTURE & INLET PROTECTION
SOD	SODDING
FD-2	ROCK FILTER DAM
	FLOW DIRECTION
RFB	REINFORCED FILTER FABRIC BARRIER

NO.	DATE	REVISION	APP.

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TBPE Firm Reg. #4575

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FB NO. P-6382

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P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

STORMWATER POLLUTION PREVENTION PLAN LAYOUT
POND 2

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 132 OF 369	

PLOTTED: 8/13/2026 4:25 PM

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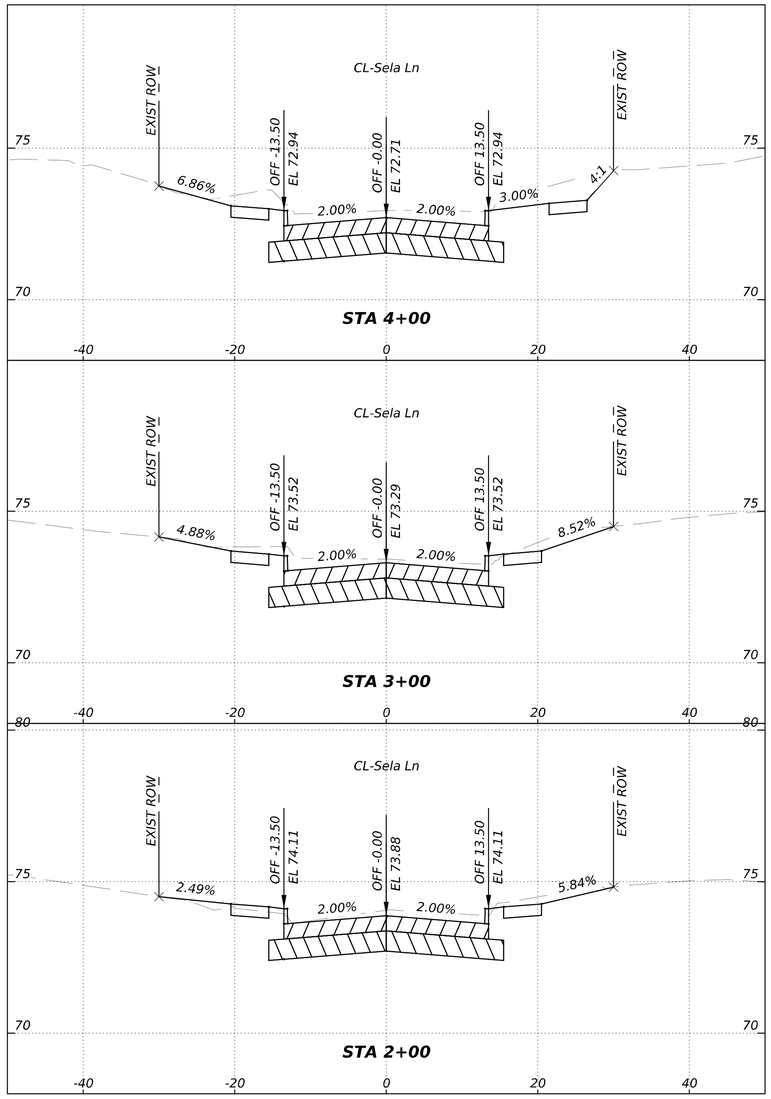
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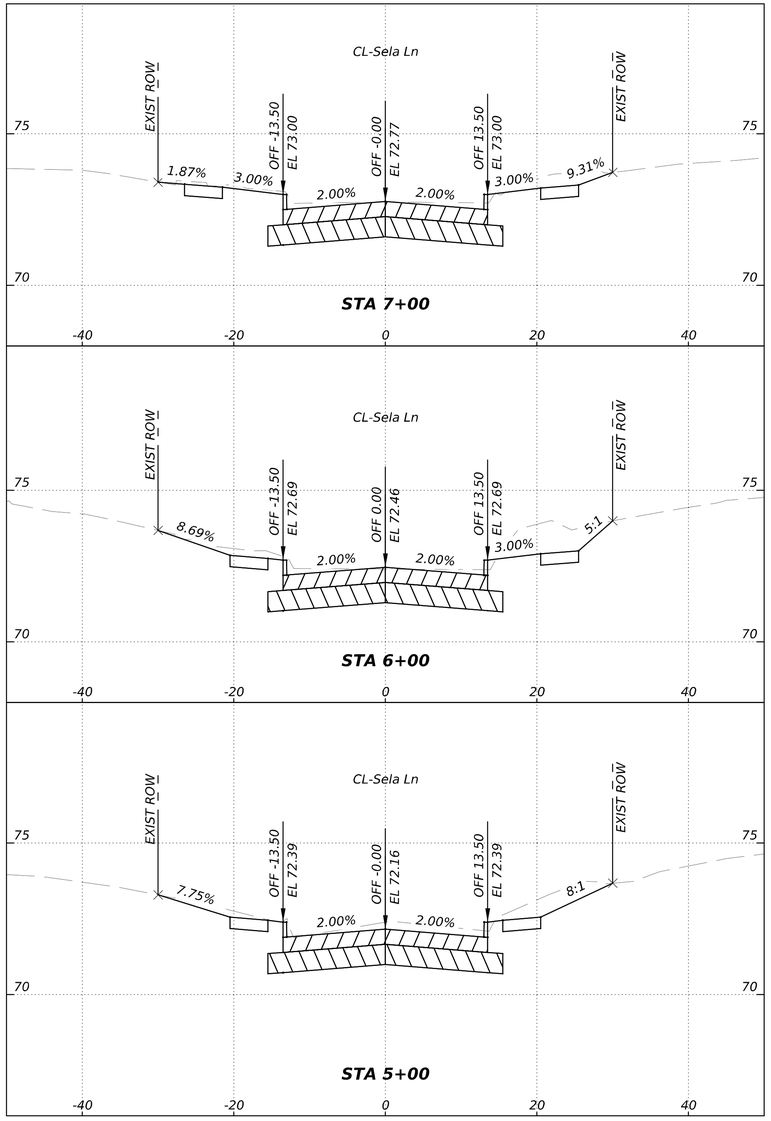
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0 10' 20'
SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE





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SURVEYED BY: Kuo&Assoclates
FB NO. P-6382

INTERIM REVIEW ONLY
DOCUMENT INCOMPLETE:
NOT INTENDED FOR PERMIT, BIDDING OR CONSTRUCTION
ENGINEER: V. N. MURTHY MADE, P.E
P.E. Reg No: 134936
DATE: JULY 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

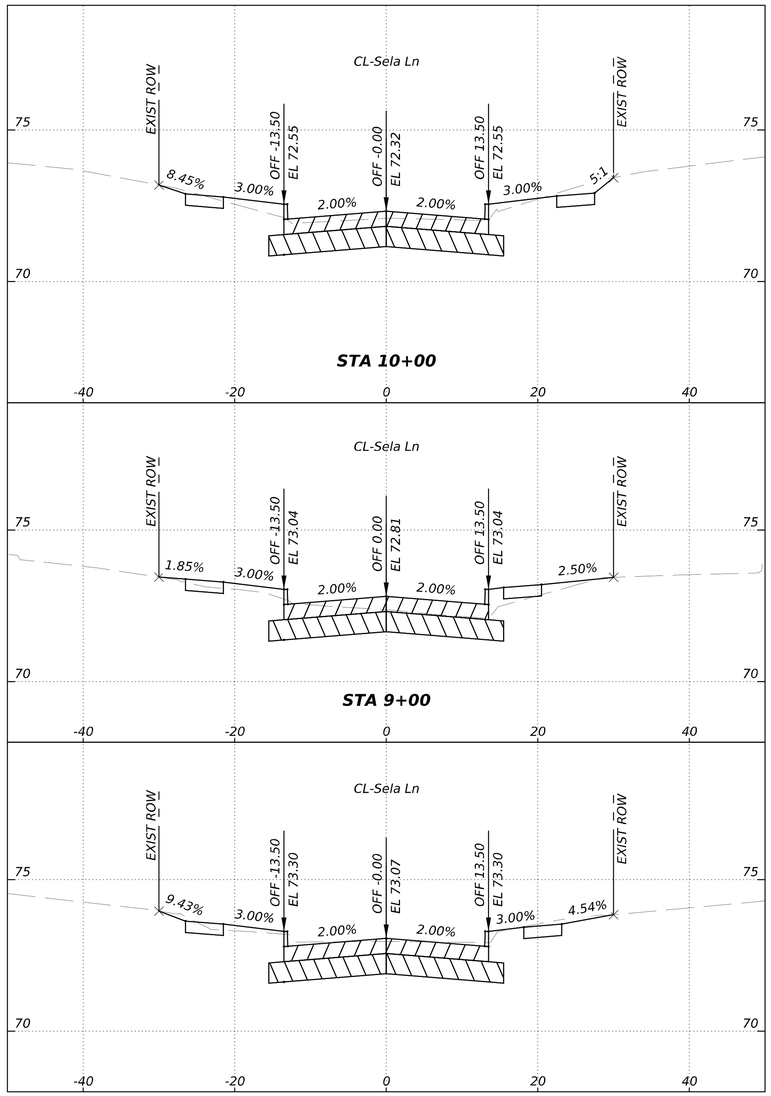
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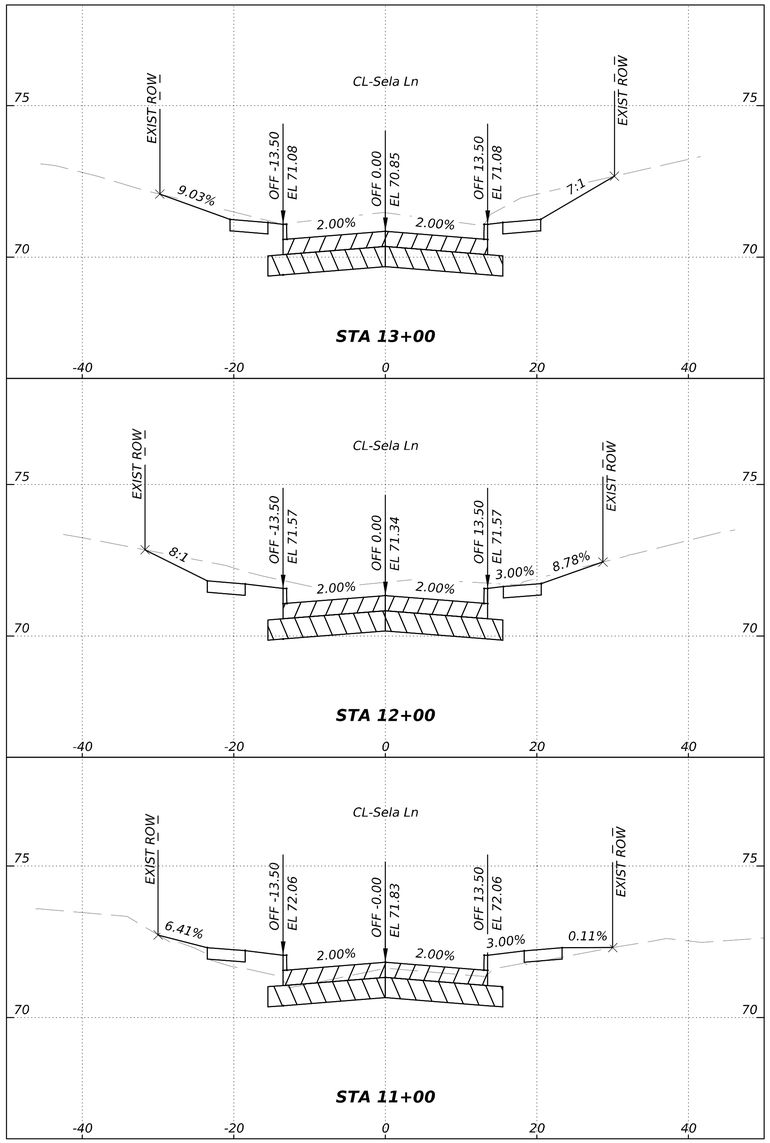
CROSS SECTION

SELA LANE

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 133 OF 369	

60% SUBMITTAL





0 10' 20'

SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE

DATE: 8/10/2026 4:42:10 PM
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P.E. Reg No: 134936
DATE: JULY 2026

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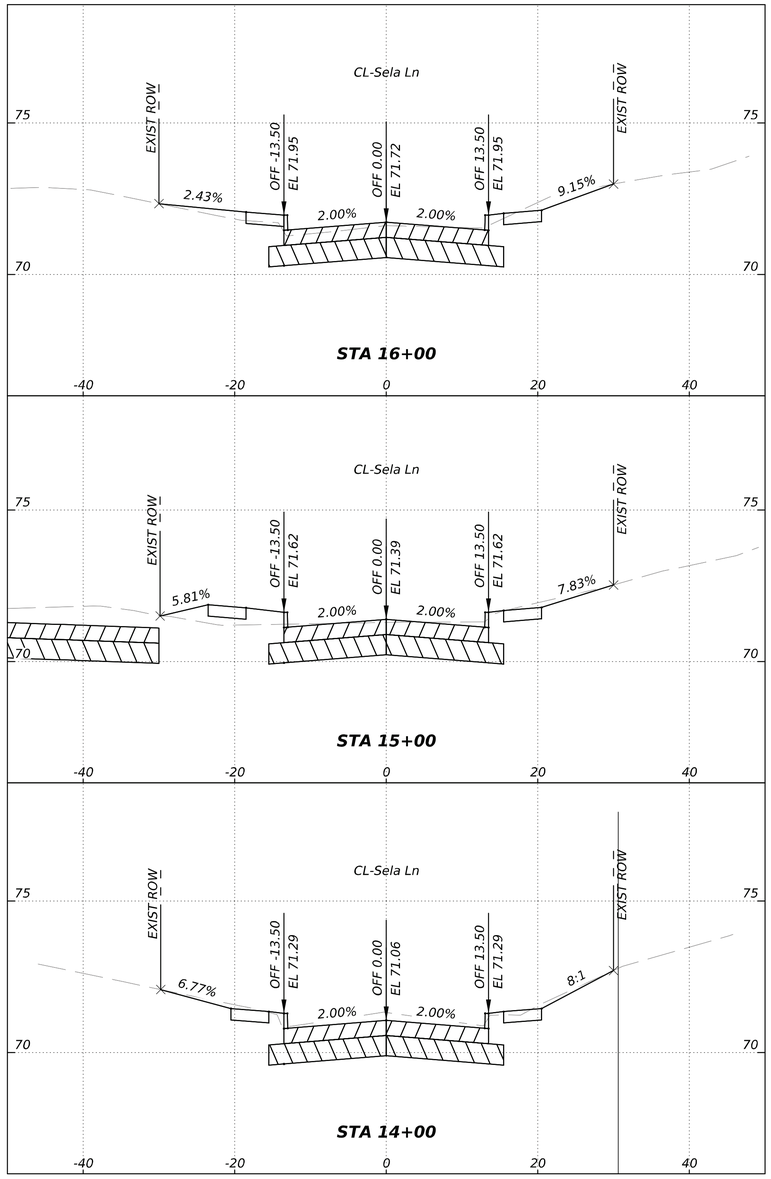
ALIEF FOREST SOUTH AREA PAVING AND DRAINGAE IMPROVEMENTS

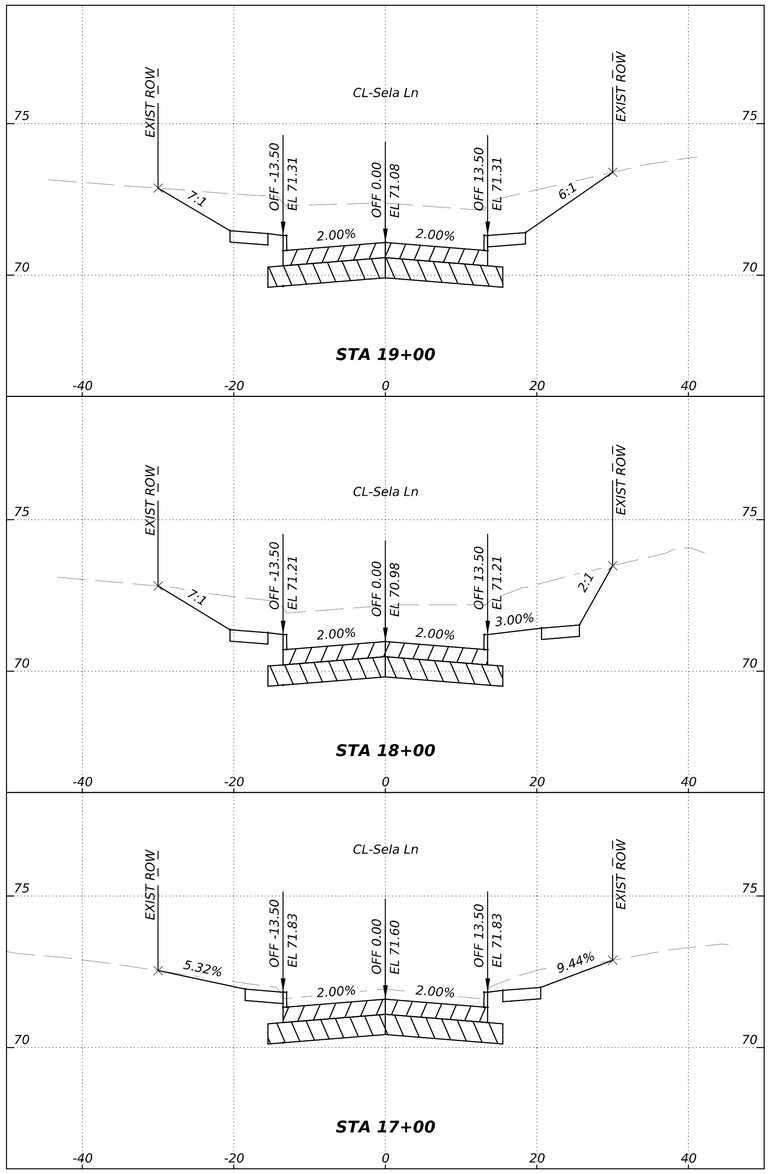
CROSS SECTION

SELA LANE

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 134 OF 369	

60% SUBMITTAL





0 10' 20'

SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE

DATE: 8/10/2026 4:42:12 PM
FILE: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\Transportation\xref\97_OR_XS.dgn

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P.E. Reg No: 134936
DATE: JULY 2026

CITY OF HOUSTON
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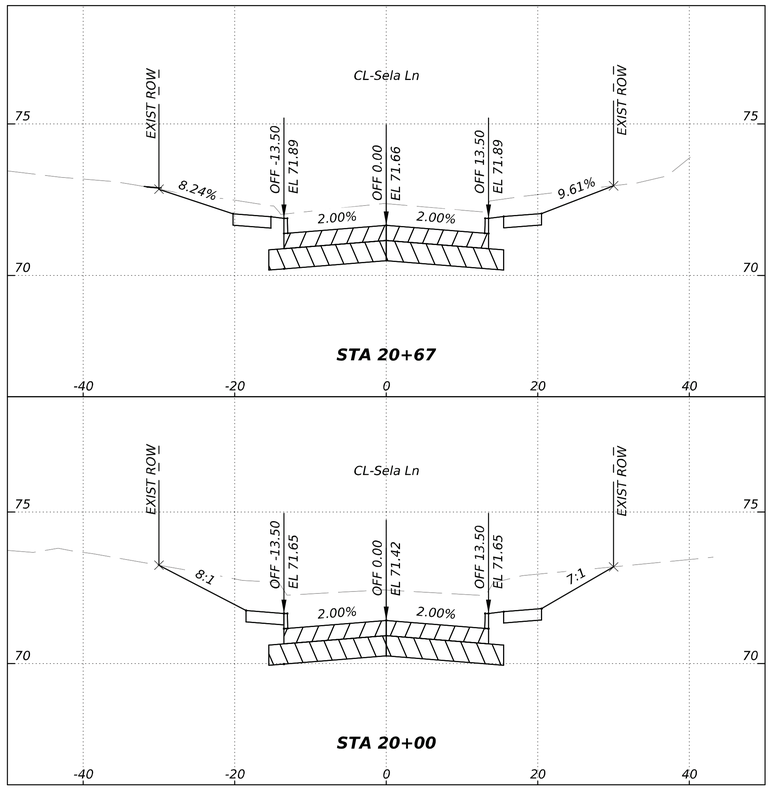
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CROSS SECTION

SELA LANE

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 135 OF 369	

60% SUBMITTAL



0 10' 20'

SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE

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P.E. Reg No: 134936
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CROSS SECTION

SELA LANE

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SHEET NO. 136 OF 369	

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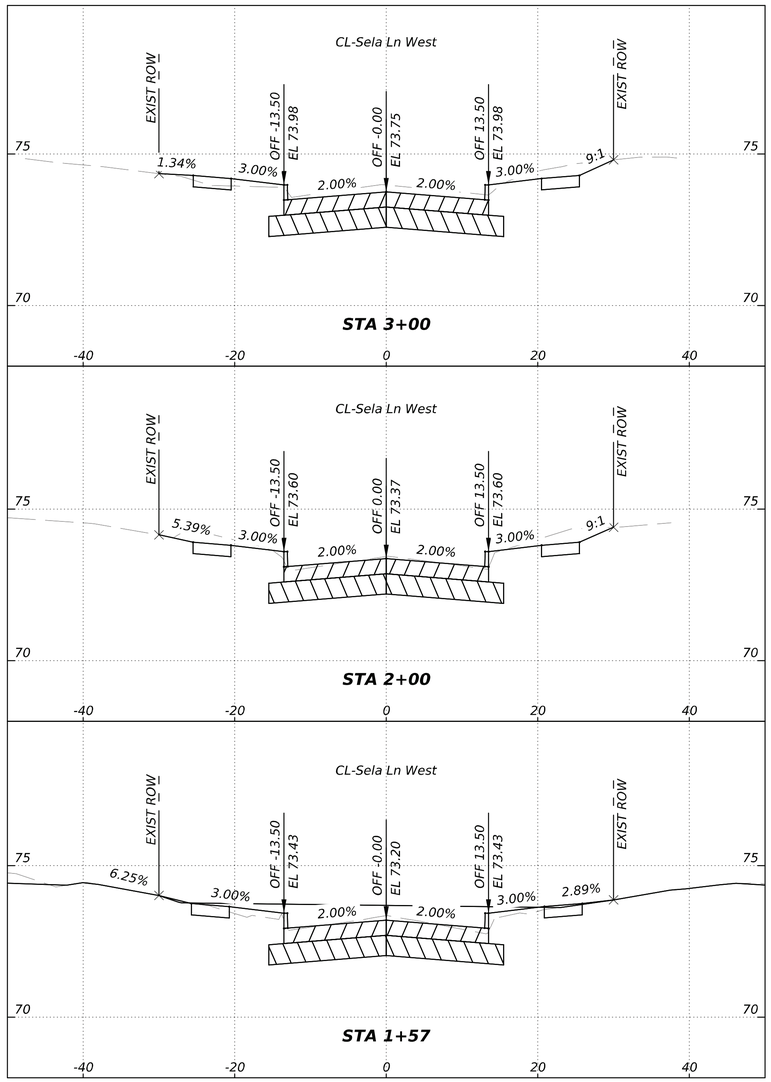
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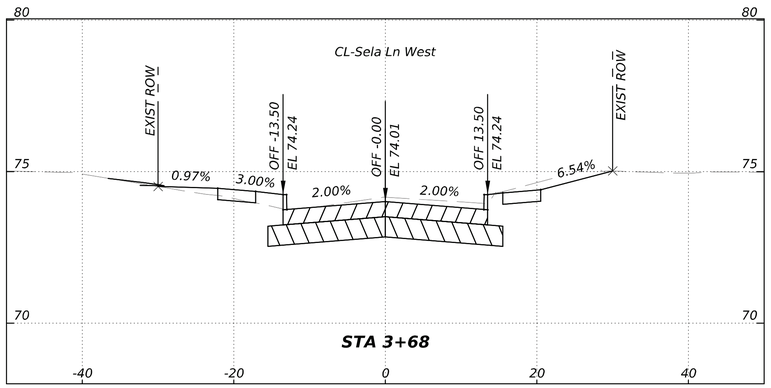
0 10' 20'

SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE





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CROSS SECTION

SELA LANE WEST

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 137 OF 369	

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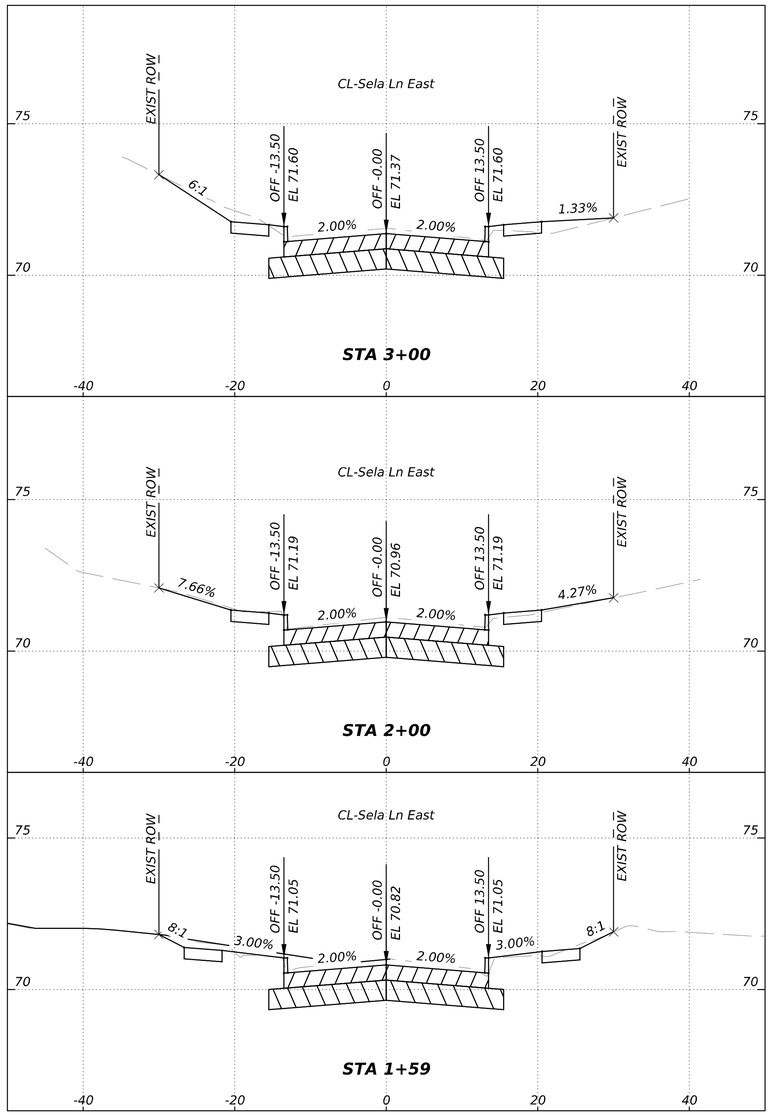
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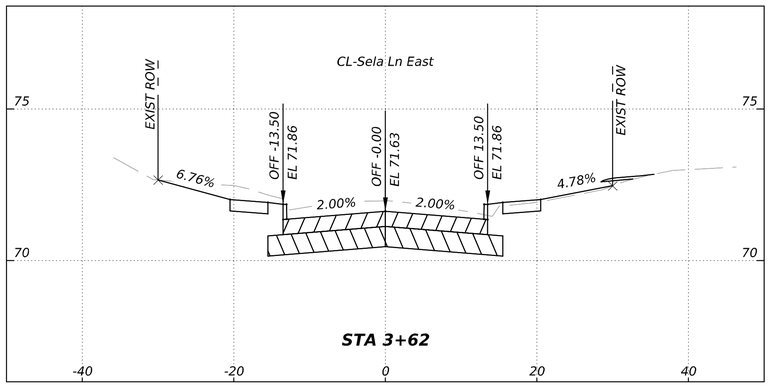
0 10' 20'

SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE





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CROSS SECTION

SELA LANE EAST

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DRAWING SCALE	
AS SHOWN	
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ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 138 OF 369	

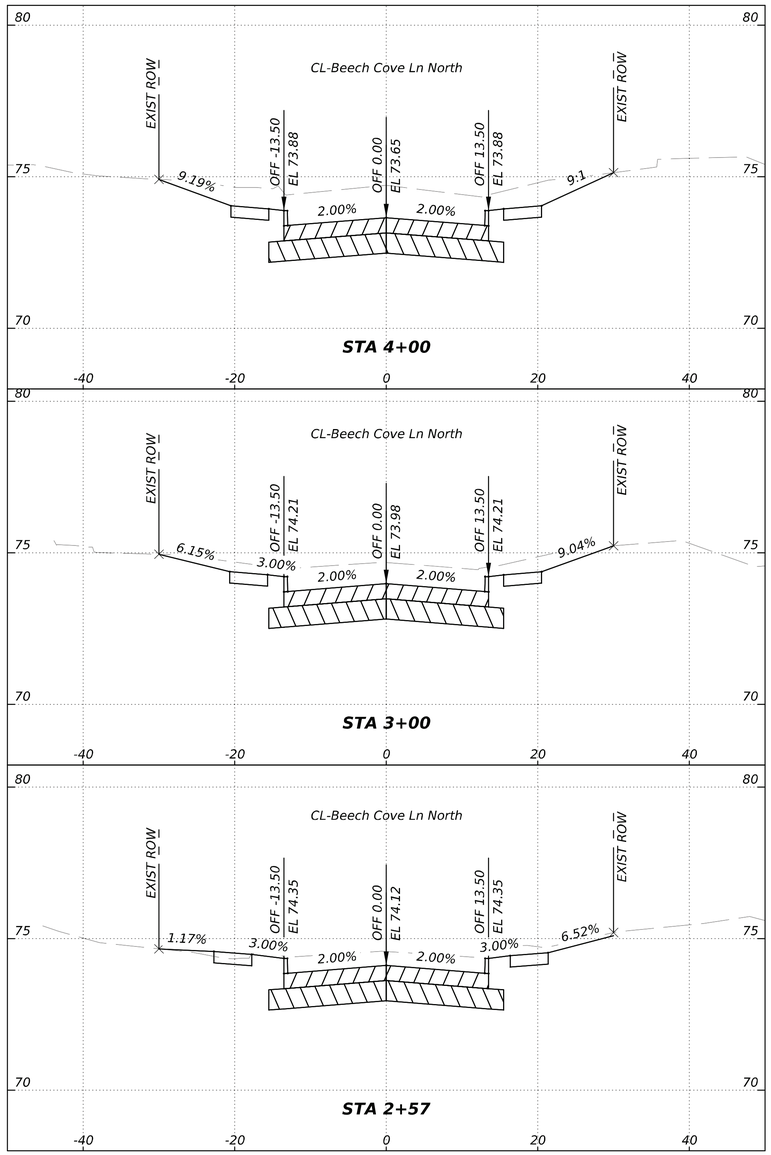
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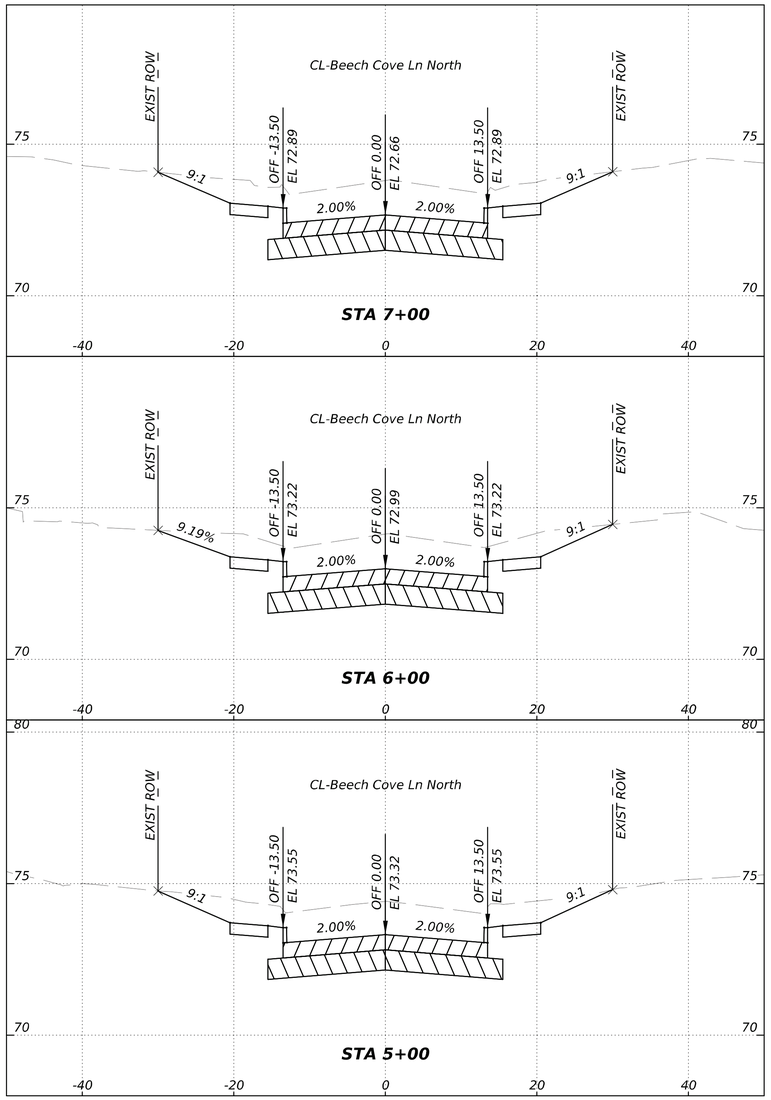
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0 10' 20'
SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE





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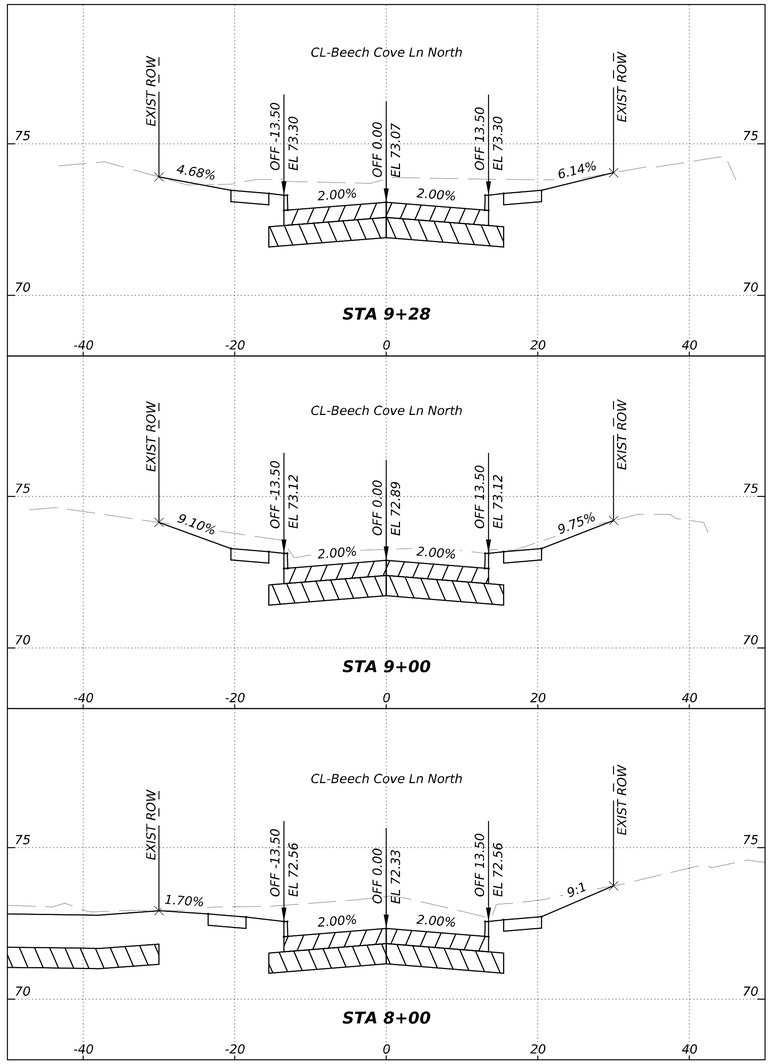
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CROSS SECTION

BEECH COVE LANE NORTH

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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CITY OF HOUSTON PM	
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SHEET NO. 139 OF 369	

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0 10' 20'

SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE

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CROSS SECTION

BEECH COVE LANE NORTH

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AS SHOWN	
CITY OF HOUSTON PM	
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SHEET NO. 140 OF 369	

DATE: 8/10/2026 4:42:19 PM
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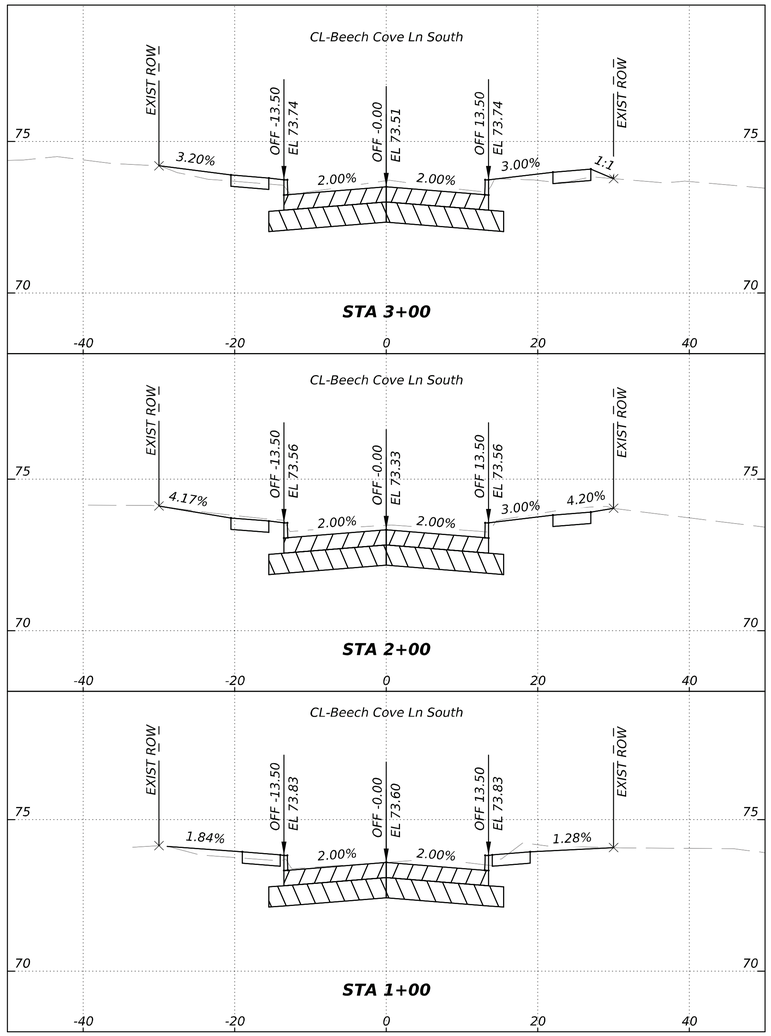
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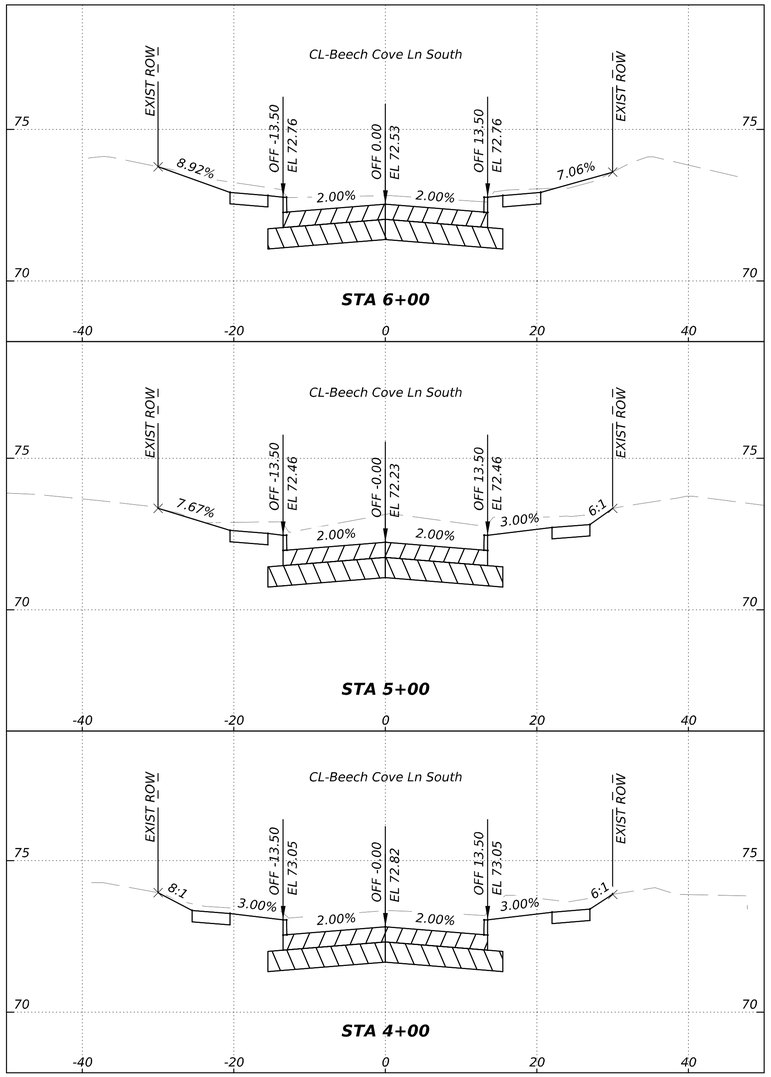
0 10' 20'

SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE





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CROSS SECTION

BEECH COVE LANE SOUTH

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DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 141 OF 369	

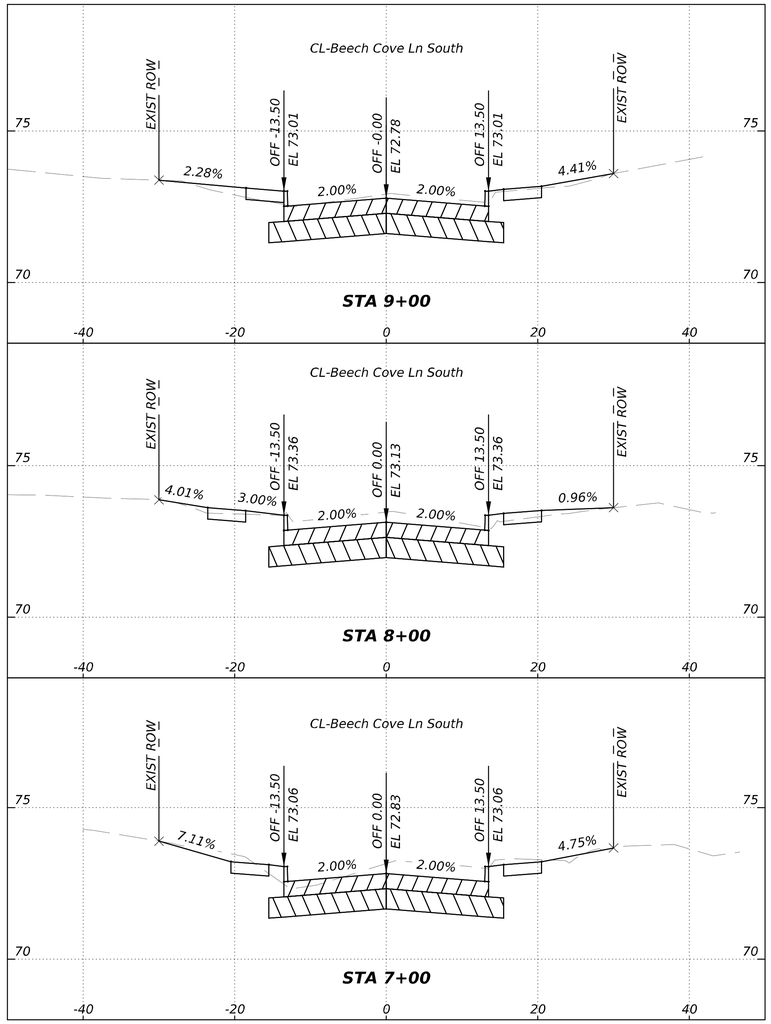
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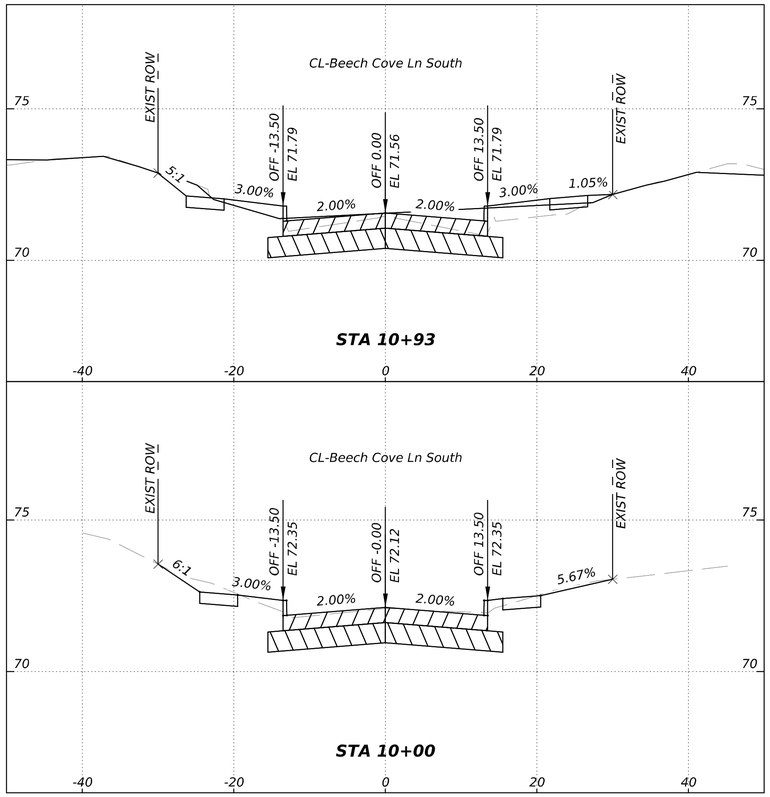
0 10' 20'

SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE





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CROSS SECTION

BEECH COVE LANE SOUTH

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 142 OF 369	

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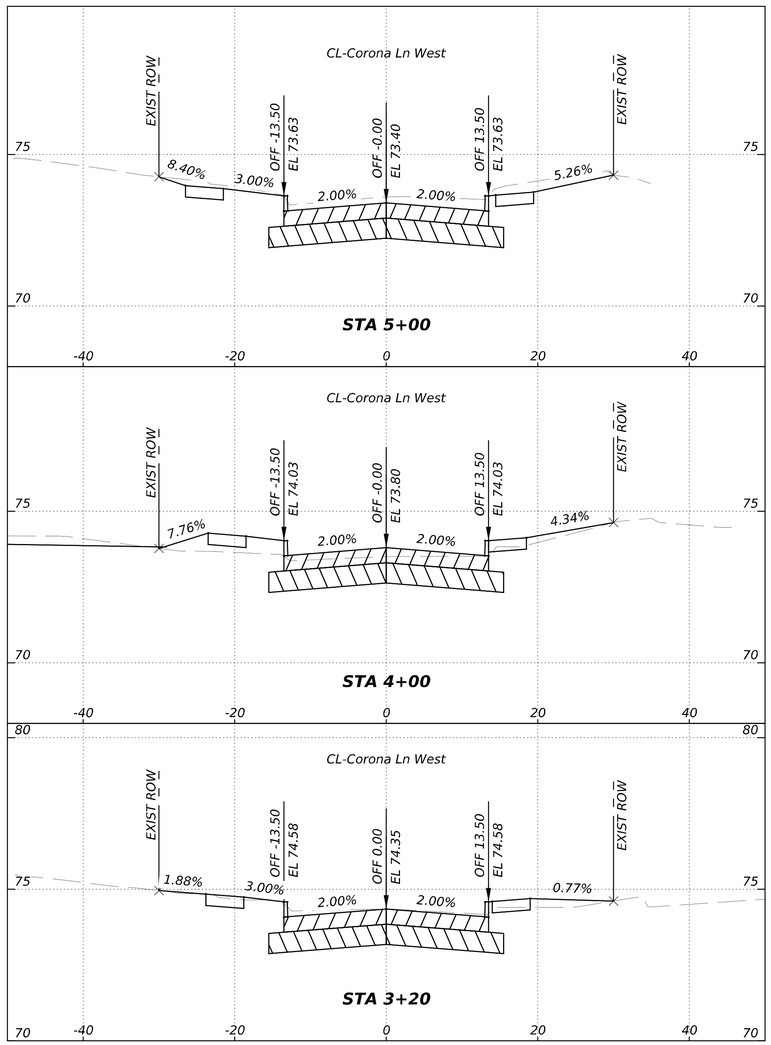
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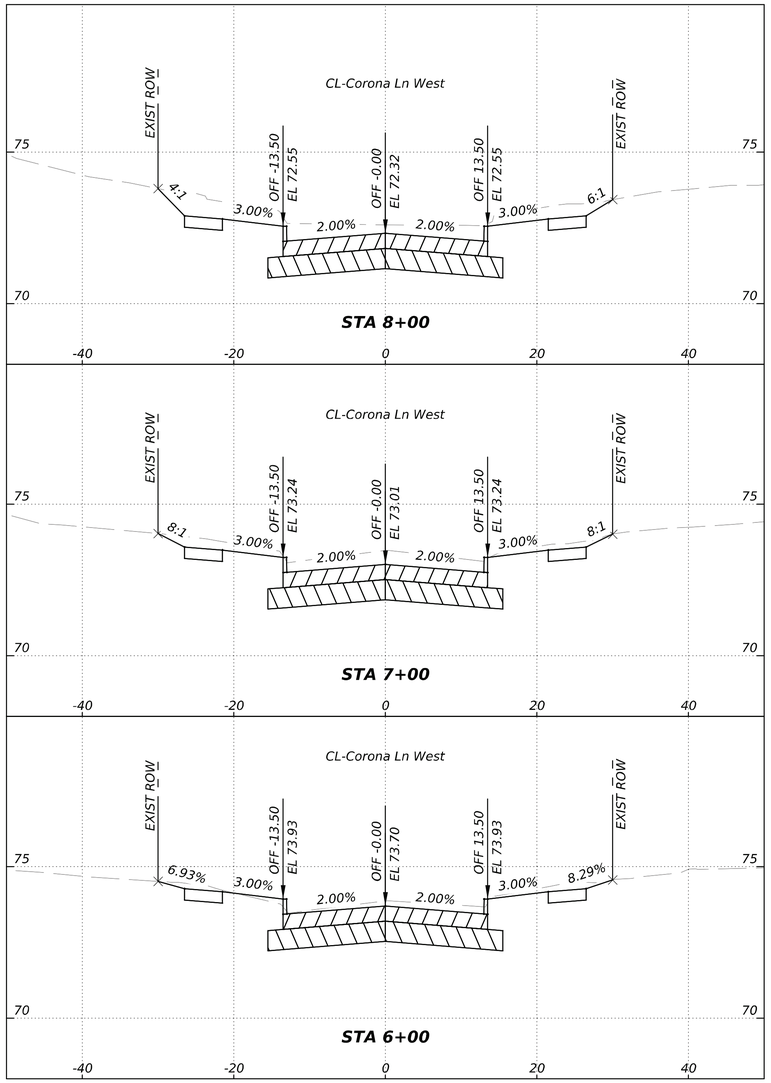
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0 10' 20'
SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE





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P.E. Reg No: 134836
DATE: JULY 2026

CITY OF HOUSTON
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ALIEF FOREST SOUTH AREA PAVING AND DRAINGAE IMPROVEMENTS

CROSS SECTION

CORONA LANE WEST

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
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AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 143 OF 369	

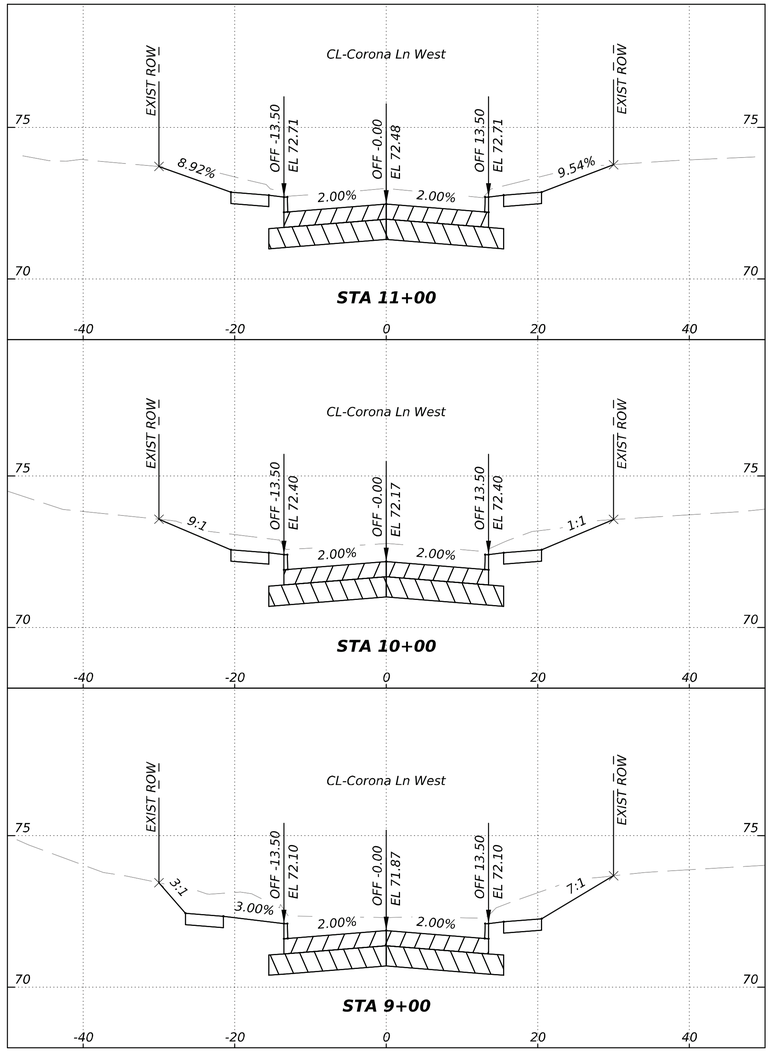
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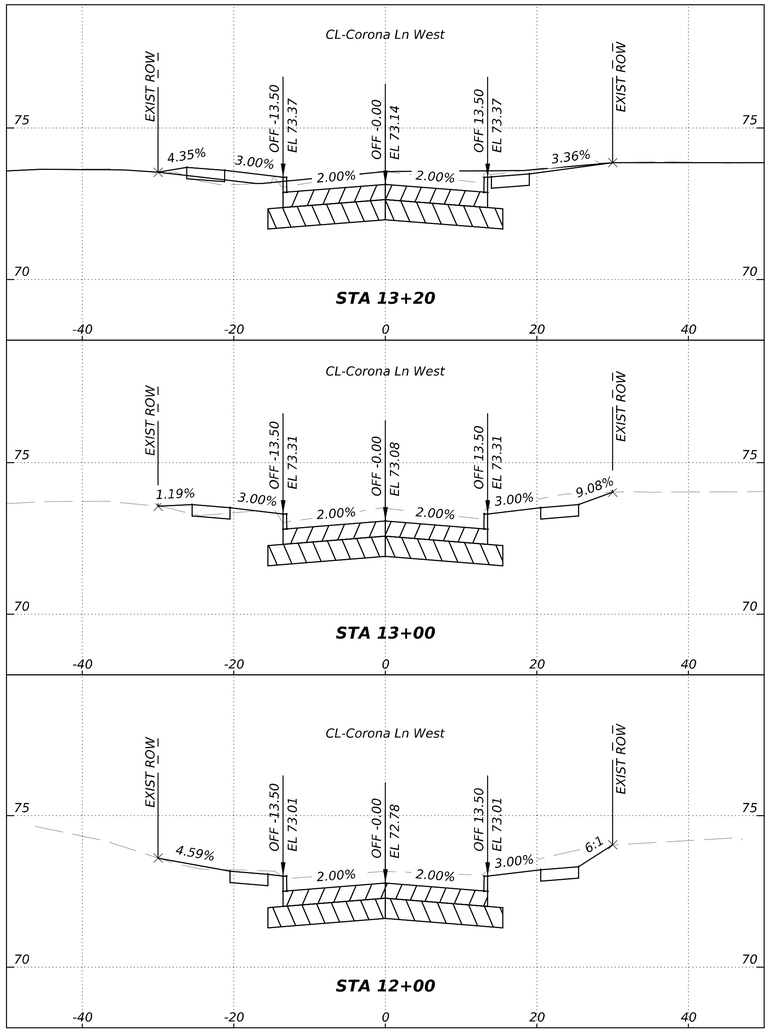
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0 10' 20'
SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE





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CROSS SECTION

CORONA LANE WEST

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DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 144 OF 369	

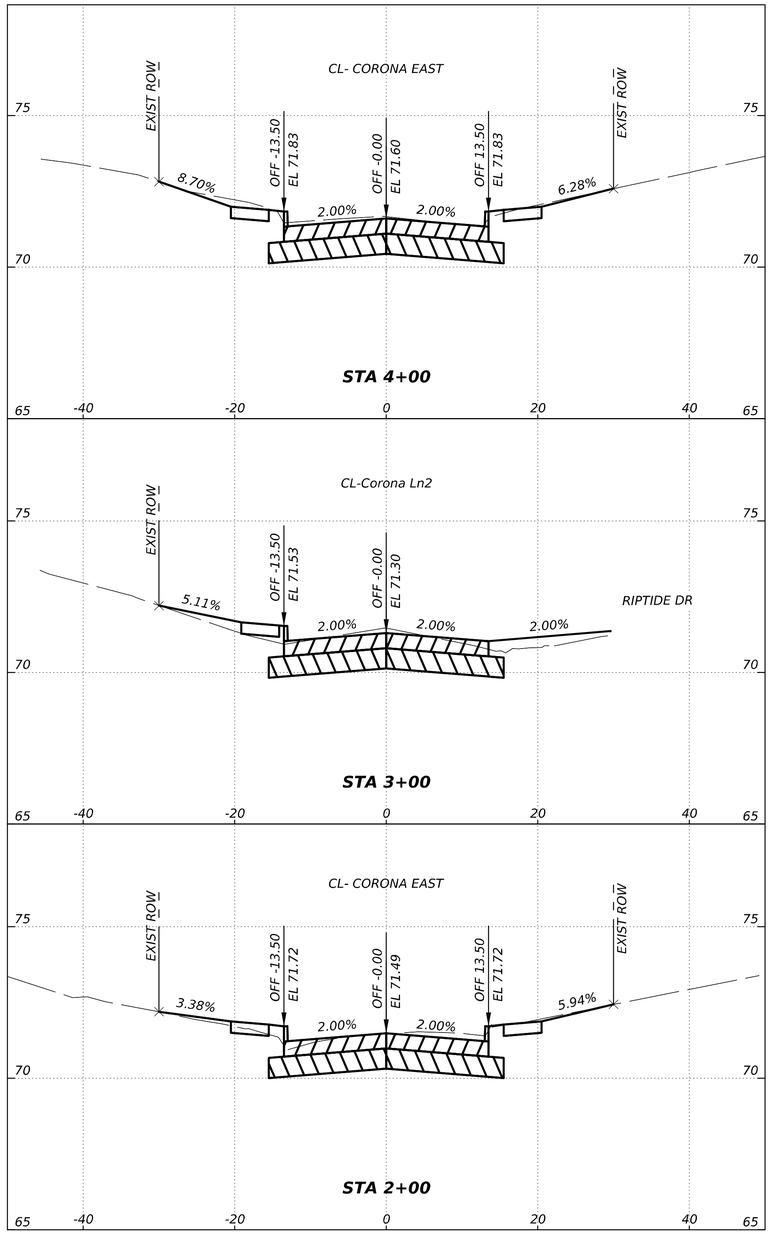
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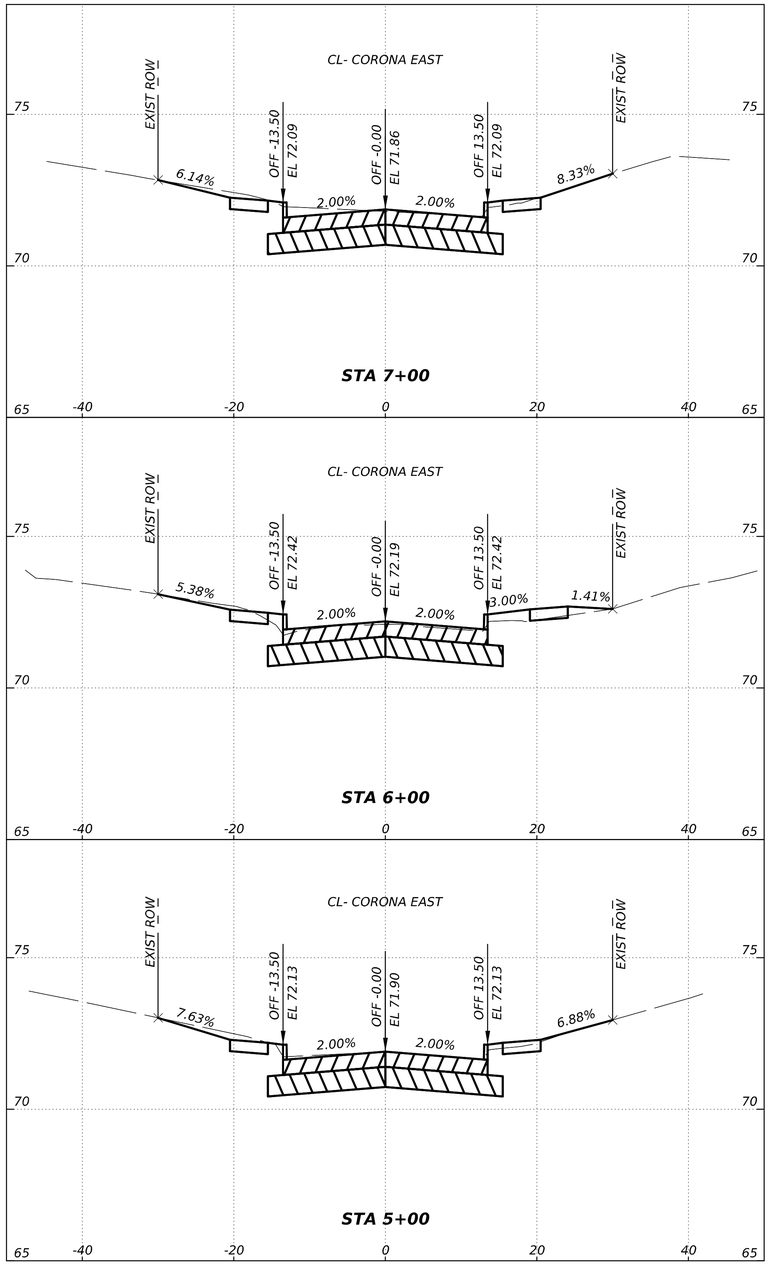
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0 10' 20'
SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE





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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINGAE IMPROVEMENTS

CROSS SECTION
CORONA LANE EAST

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AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 145 OF 369	

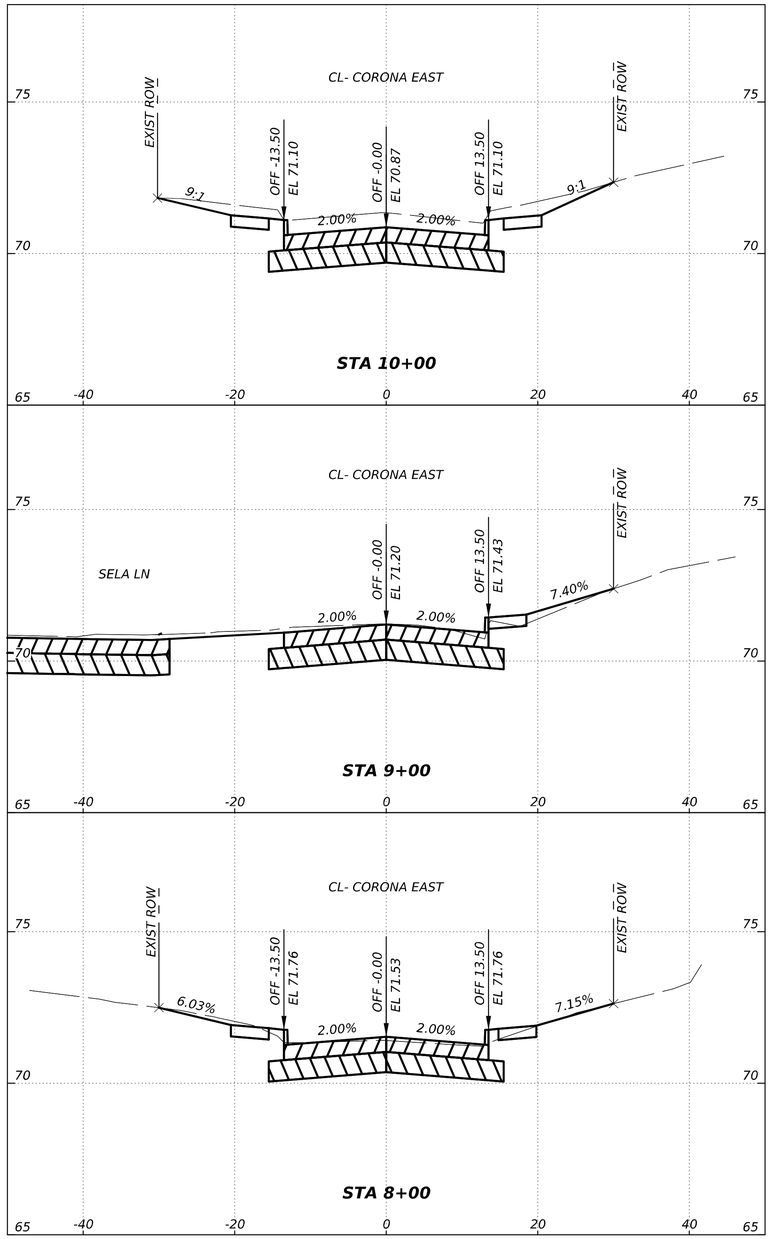
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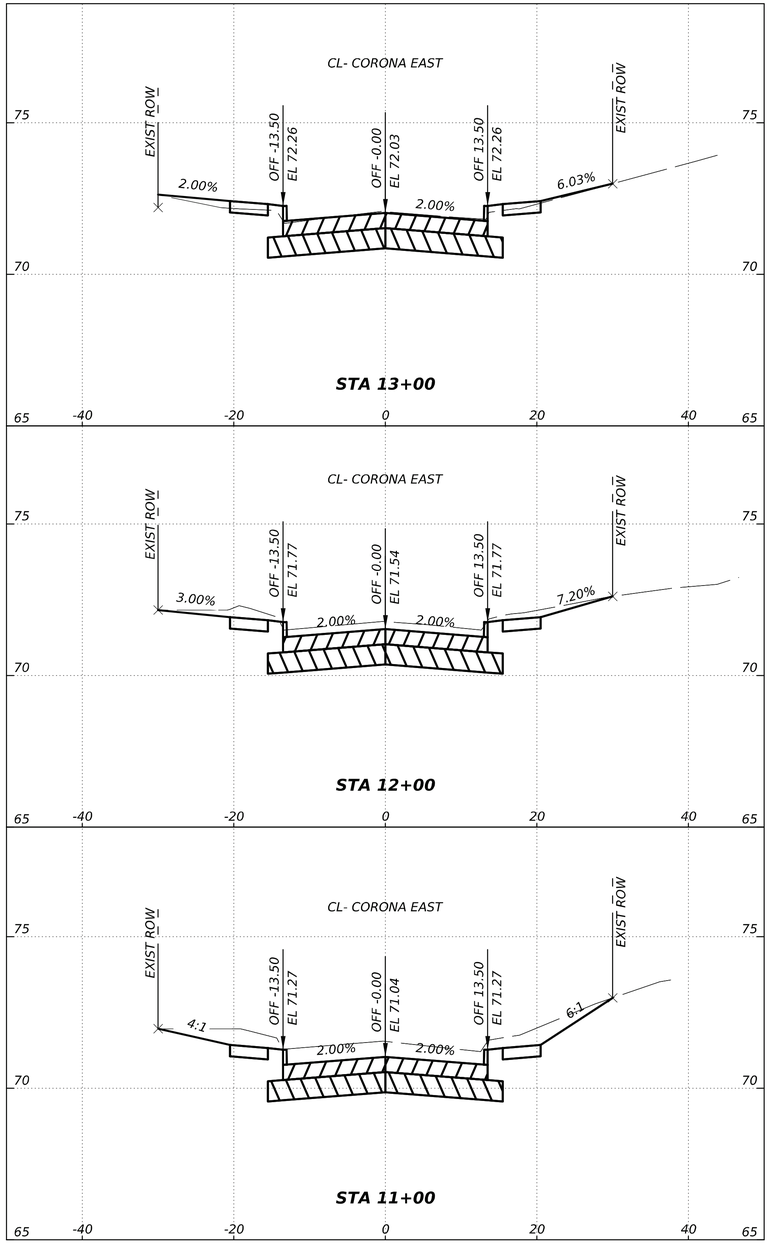
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0 10' 20'
SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE





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CROSS SECTION
CORONA LANE EAST

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AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 146 OF 369	

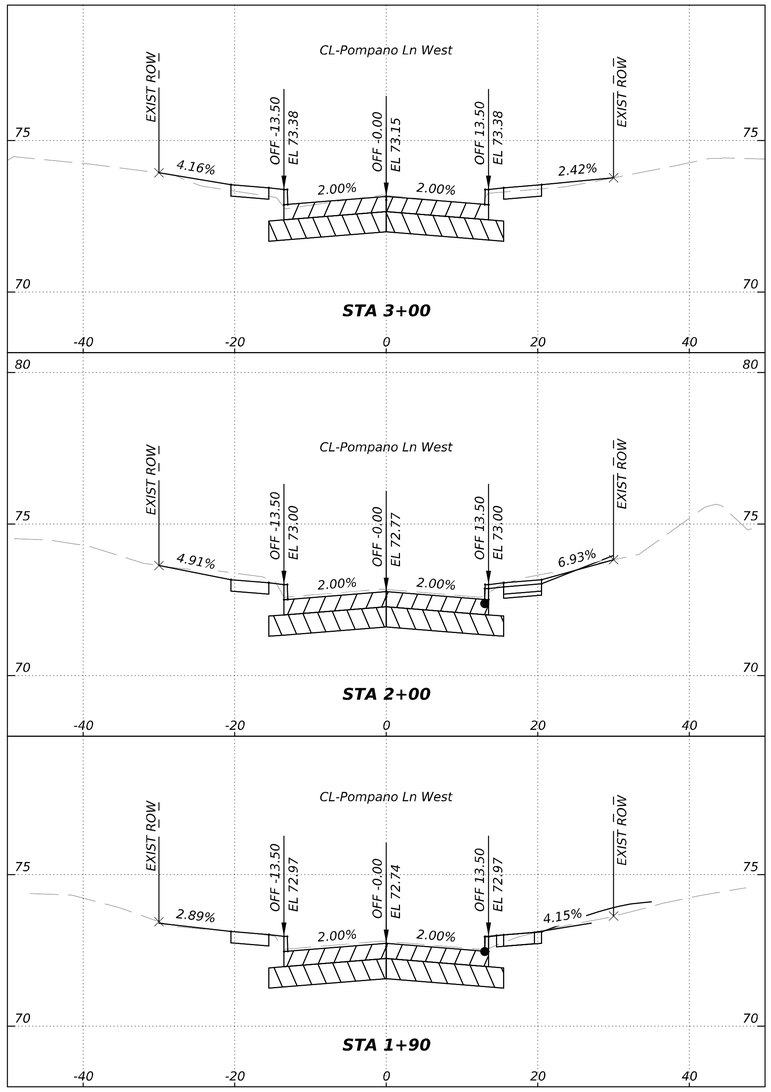
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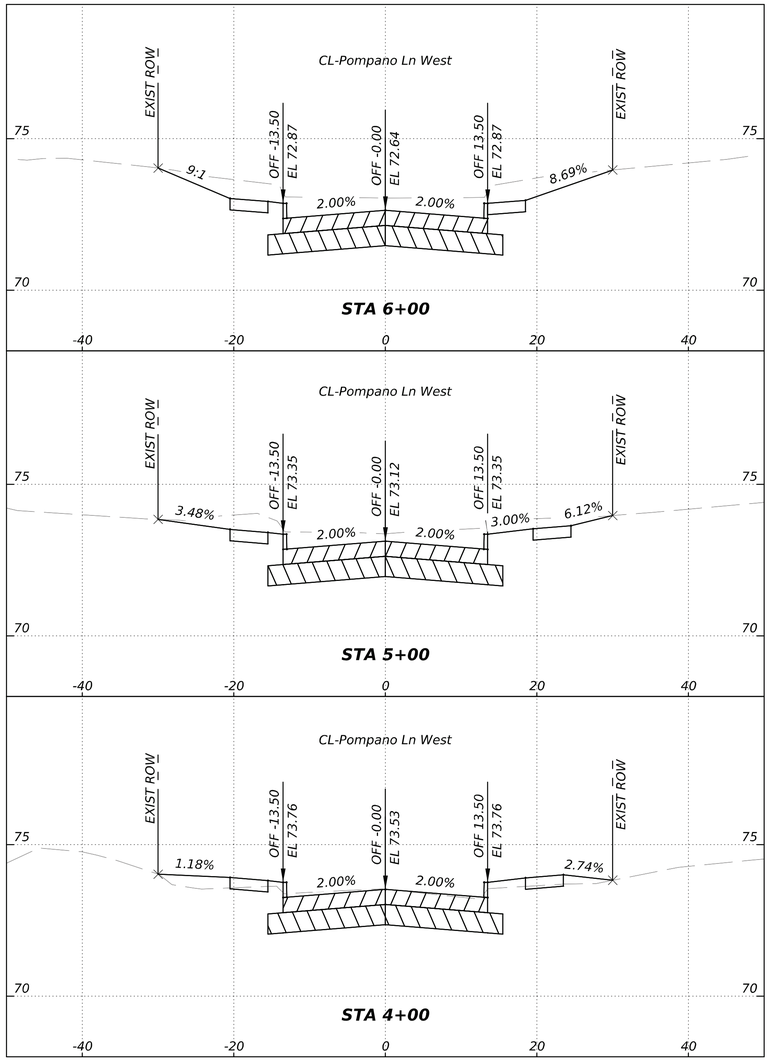
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0 10' 20'
SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE





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F 713 748 3748
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ENGINEER: V. N. MURTHY MADE, P.E
P.E. Reg No: 134936
DATE: JULY 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINGAE IMPROVEMENTS

CROSS SECTION

POMPANO LANE WEST

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 147 OF 369	

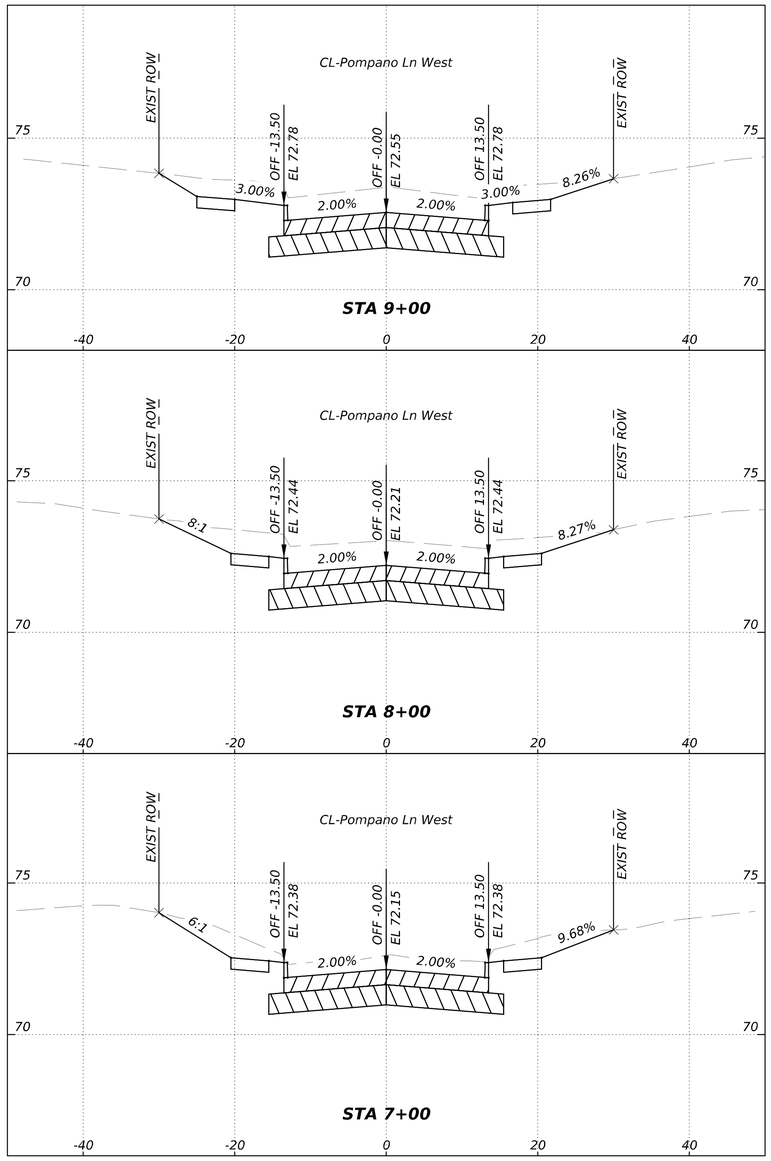
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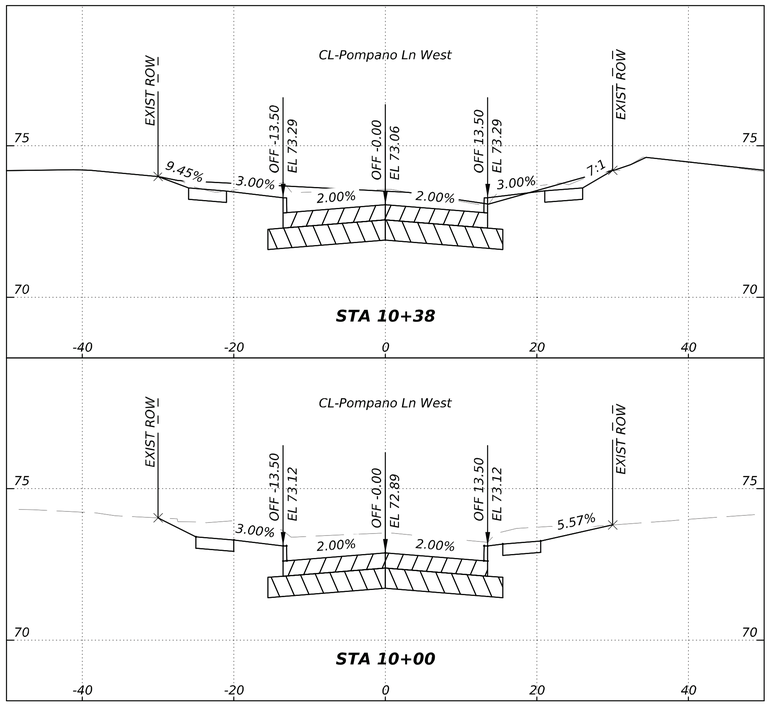
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0 10' 20'
SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE





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CITY OF HOUSTON
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ALIEF FOREST SOUTH AREA PAVING AND DRAINGAE IMPROVEMENTS

CROSS SECTION

POMPANO LANE WEST

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 148 OF 369	

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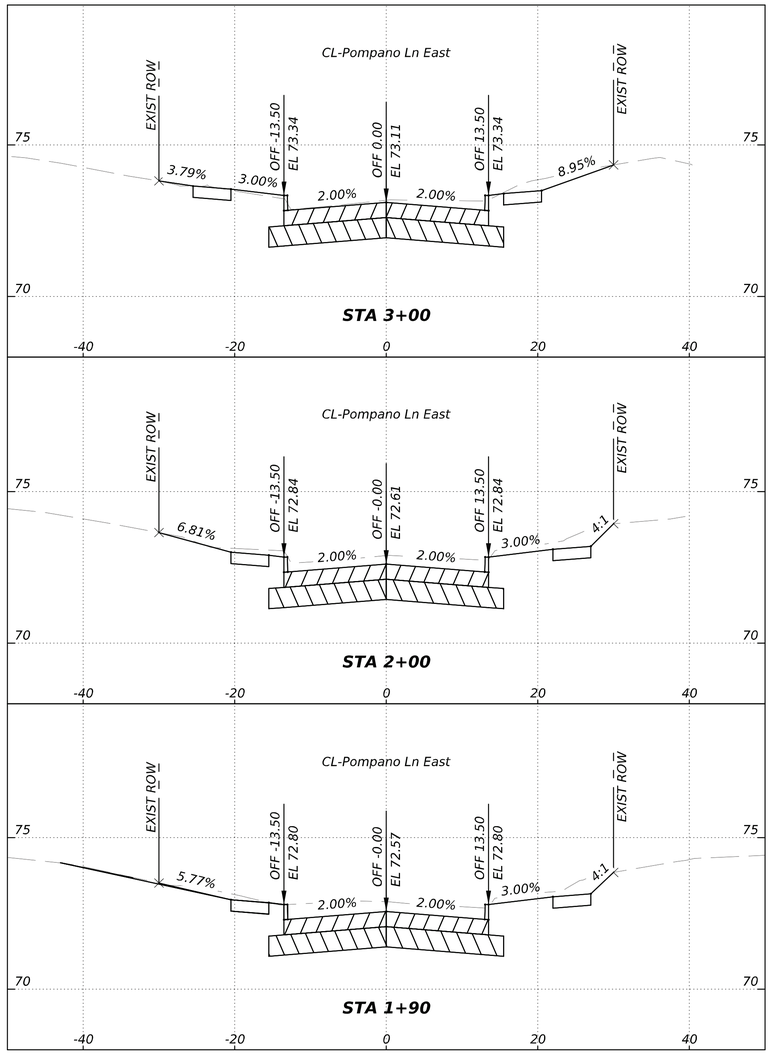
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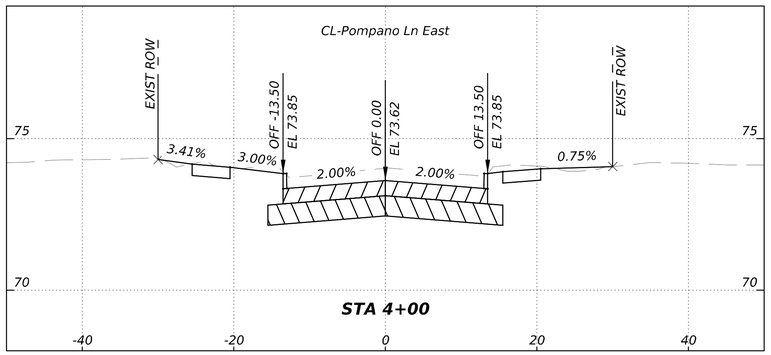
0 10' 20'

SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE





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P.E. Reg No: 124936
DATE: JULY 2026

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINGAE IMPROVEMENTS

CROSS SECTION

POMPANO LANE EAST

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 149 OF 369	

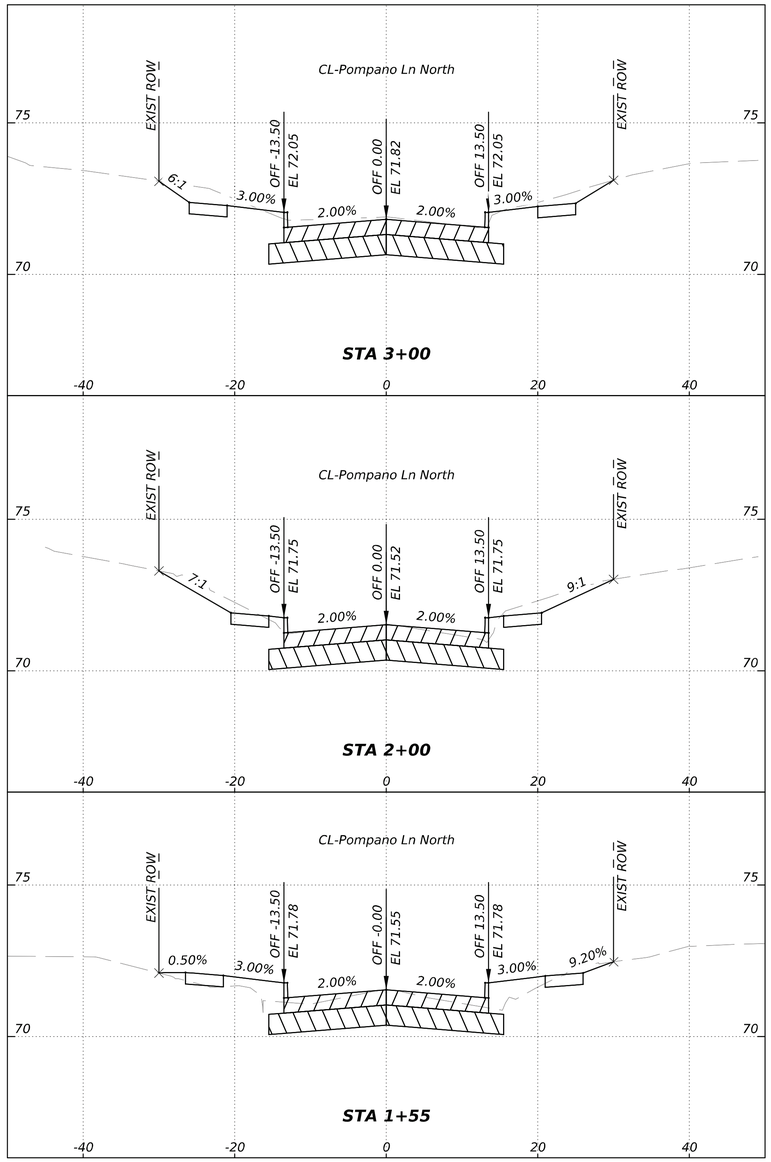
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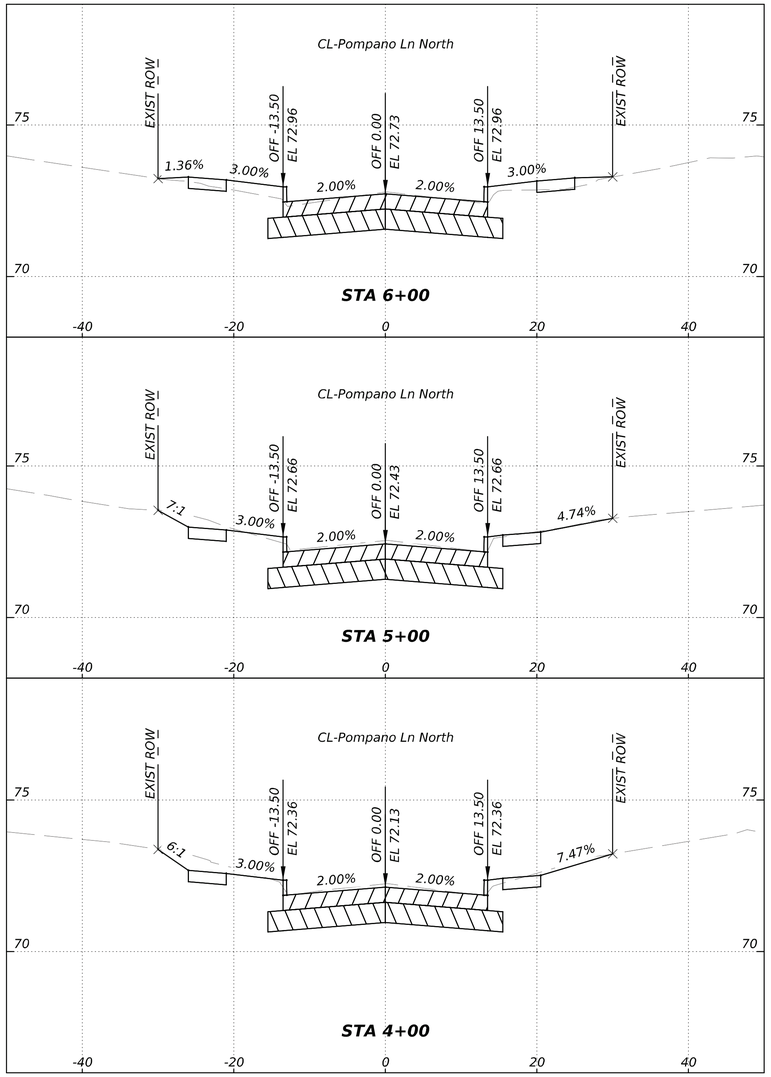
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0 10' 20'
SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE





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P.E. Reg No: 134936
DATE: JULY 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINGAE IMPROVEMENTS

CROSS SECTION

POMPANO LANE NORTH

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 150 OF 369	

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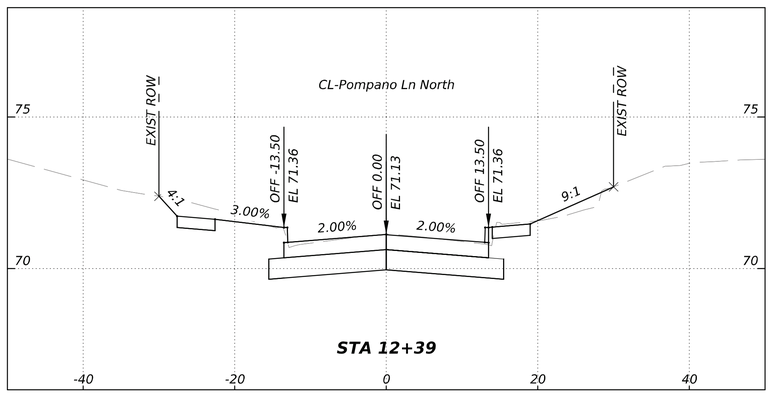
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0 10' 20'

SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE



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HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINGAE IMPROVEMENTS

CROSS SECTION

POMPANO LANE NORTH

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 151 OF 369	

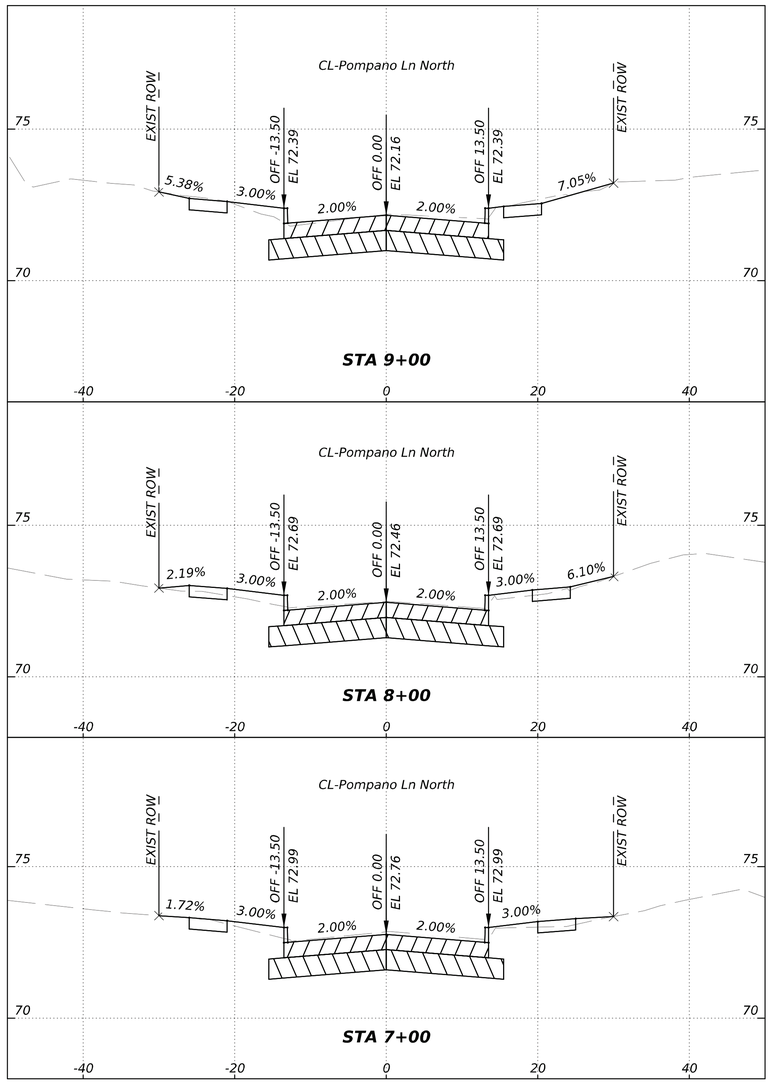
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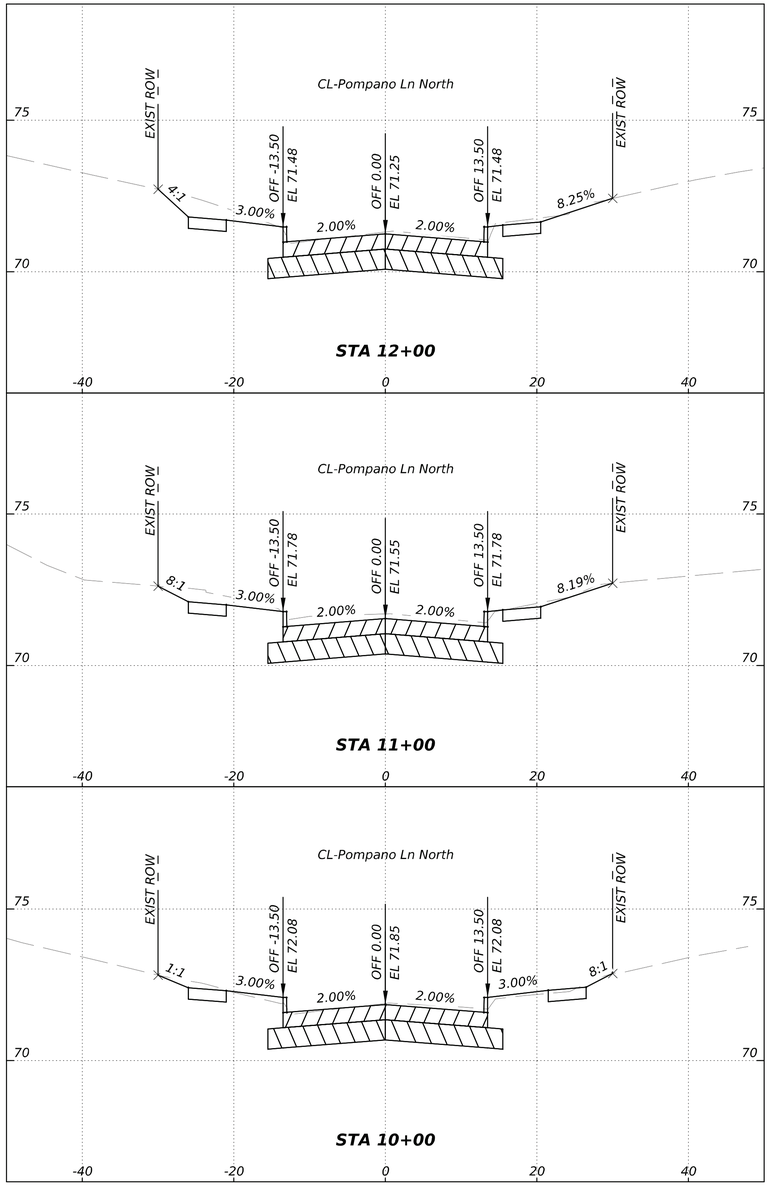
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0 10' 20'
SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE





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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINGAE IMPROVEMENTS

CROSS SECTION

POMPANO LANE NORTH

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 152 OF 369	

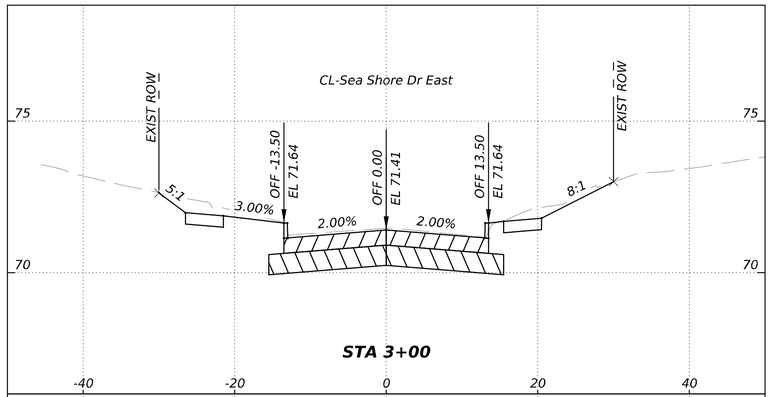
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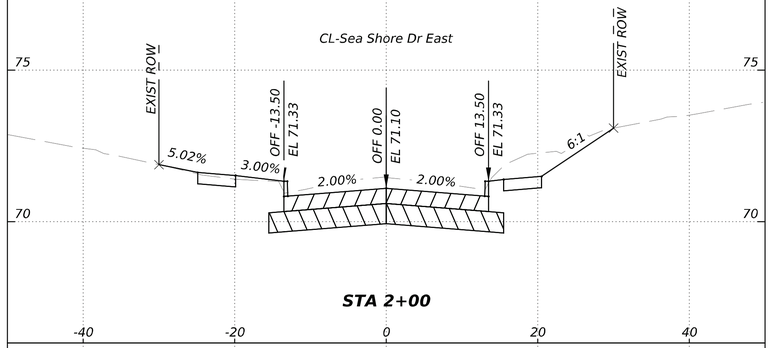
0 10' 20'
SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

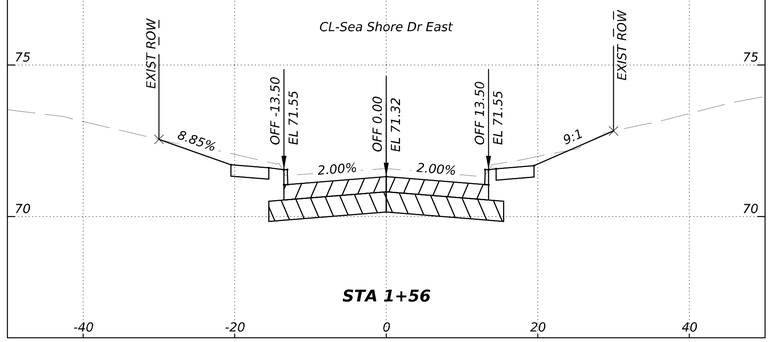
PROP 8" LIME STABLIZED SUB GRADE



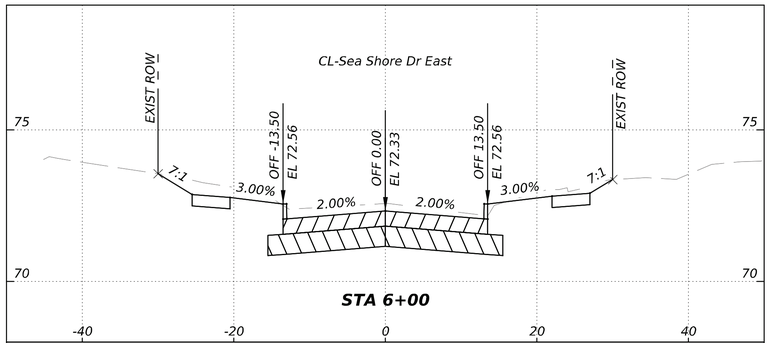
STA 3+00



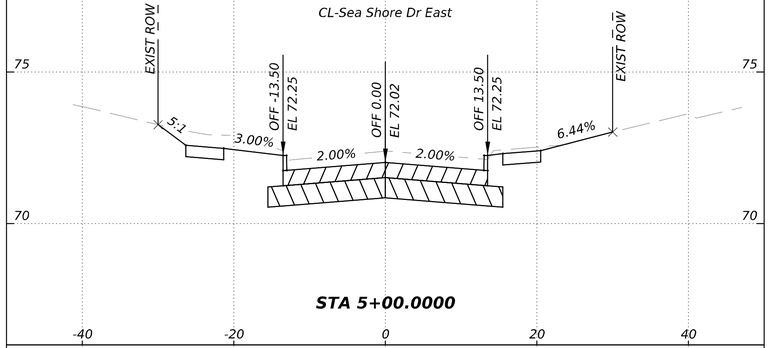
STA 2+00



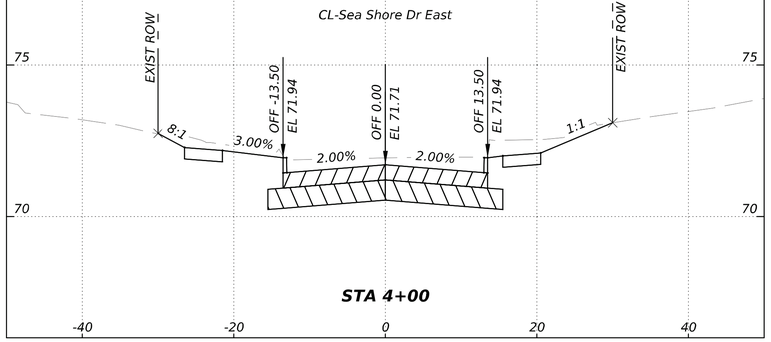
STA 1+56



STA 6+00



STA 5+00.0000



STA 4+00

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P.E. Reg No: 134936
DATE: JULY 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINGAE IMPROVEMENTS

CROSS SECTION

SEA SHORE DRIVE EAST

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 153 OF 369	

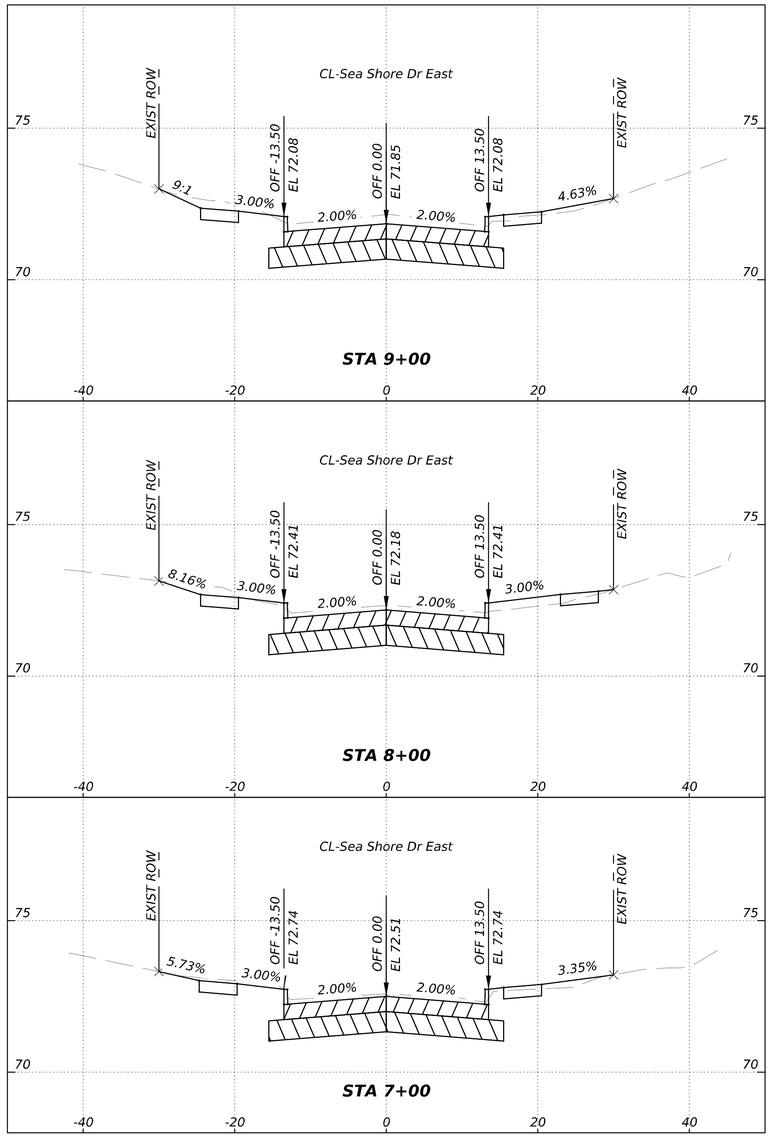
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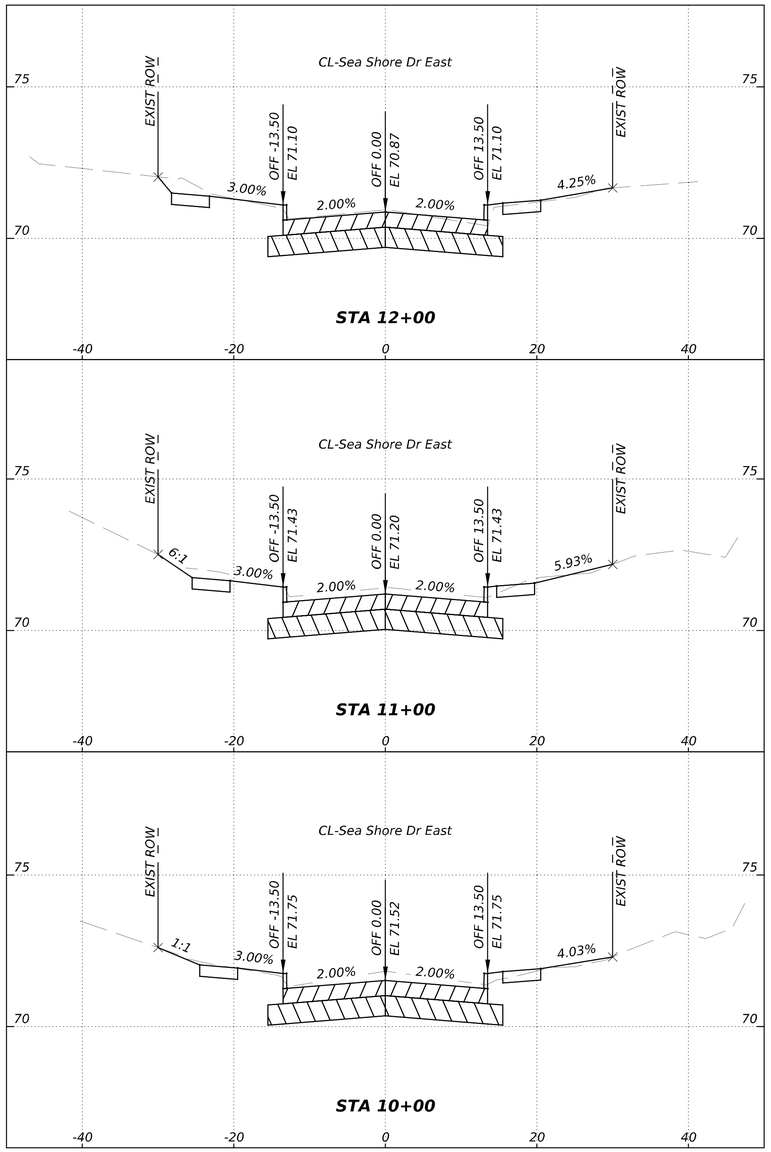
DATE: 8/10/2026 4:42:40 PM
FILE: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\Transportation\xref\97_OR_XS.dgn

0 10' 20'
SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE





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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINGAE IMPROVEMENTS

CROSS SECTION

SEA SHORE DRIVE EAST

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 154 OF 369	

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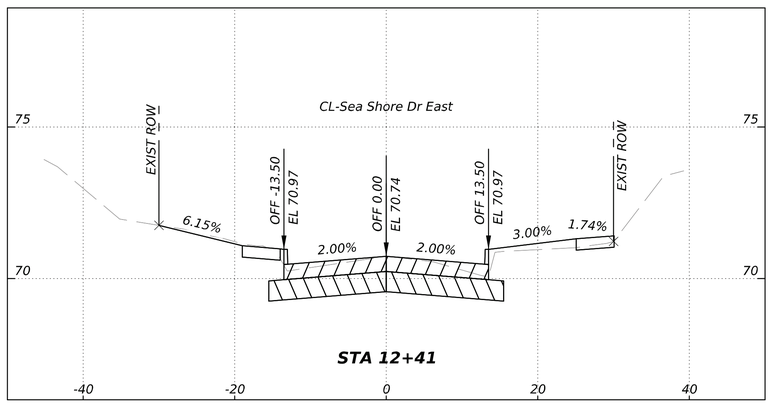
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0 10' 20'

SCALE: 1" = 20' (HORZ)
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HOUSTON PUBLIC WORKS

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CROSS SECTION

SEA SHORE DRIVE EAST

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 155 OF 369	

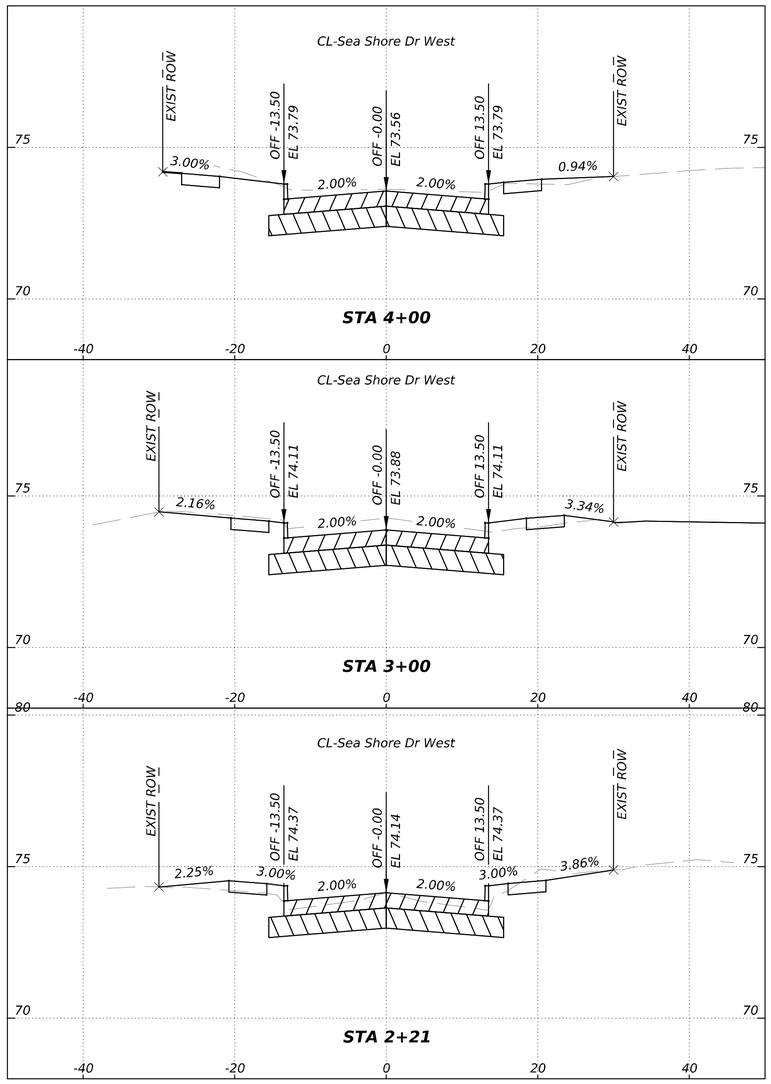
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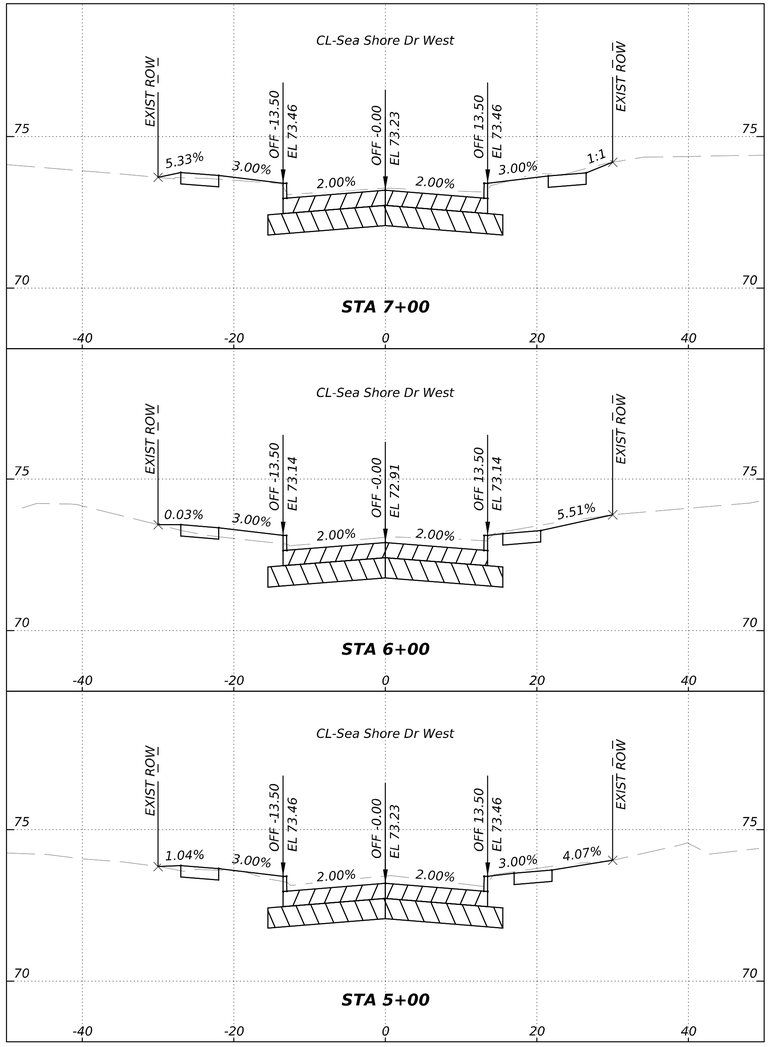
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FILE: P:\ACTIVE\18PV97 - 2024 Update\Ph II\Working\Transportation\xref\97_OR_XS.dgn

0 10' 20'
SCALE: 1" = 20' (HORZ)
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PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE





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P.E. Reg No: 134936
DATE: JULY 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

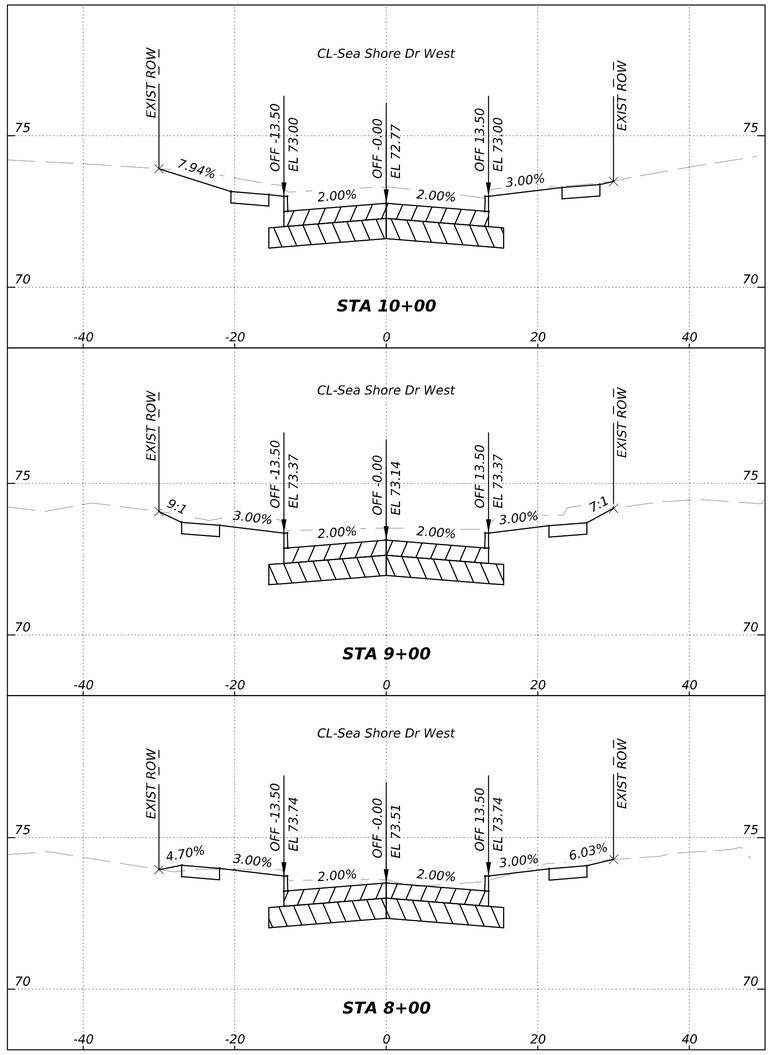
ALIEF FOREST SOUTH AREA PAVING AND DRAINGAE IMPROVEMENTS

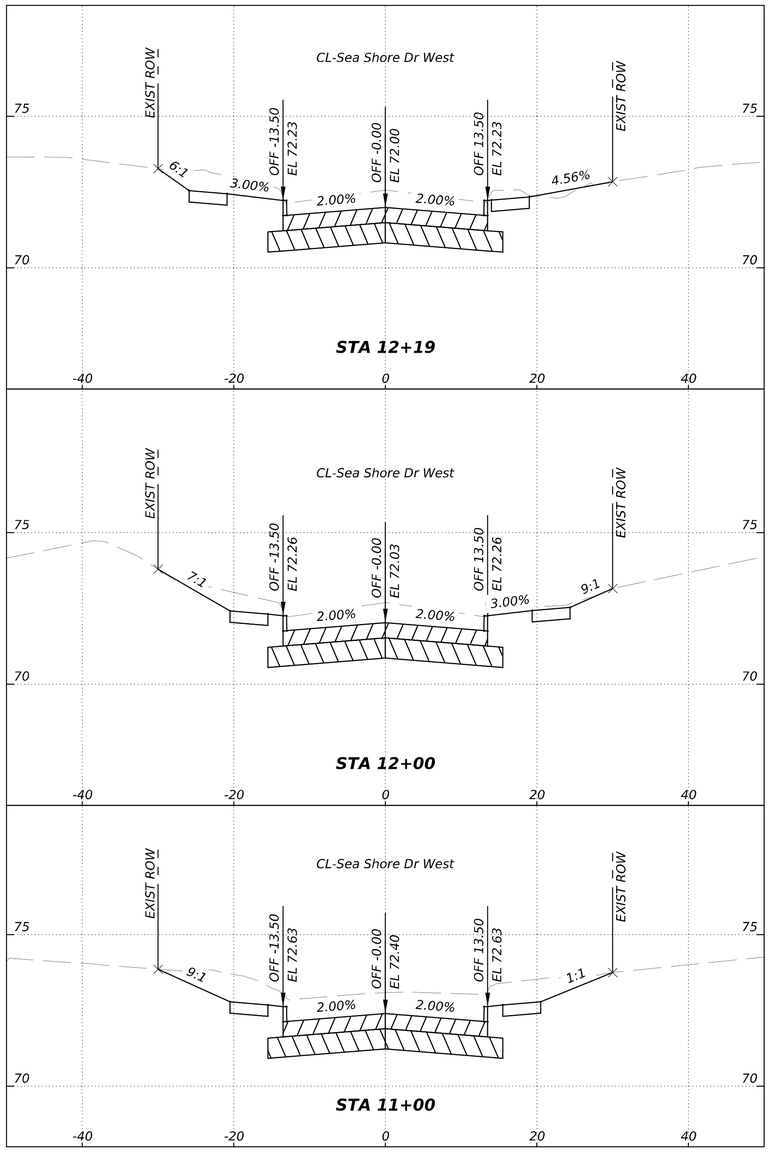
CROSS SECTION

SEA SHORE DRIVE WEST

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 156 OF 369	

60% SUBMITTAL





0 10' 20'

SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE

DATE: 8/10/2026 4:42:45 PM
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CROSS SECTION

SEA SHORE DRIVE WEST

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DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 157 OF 369	

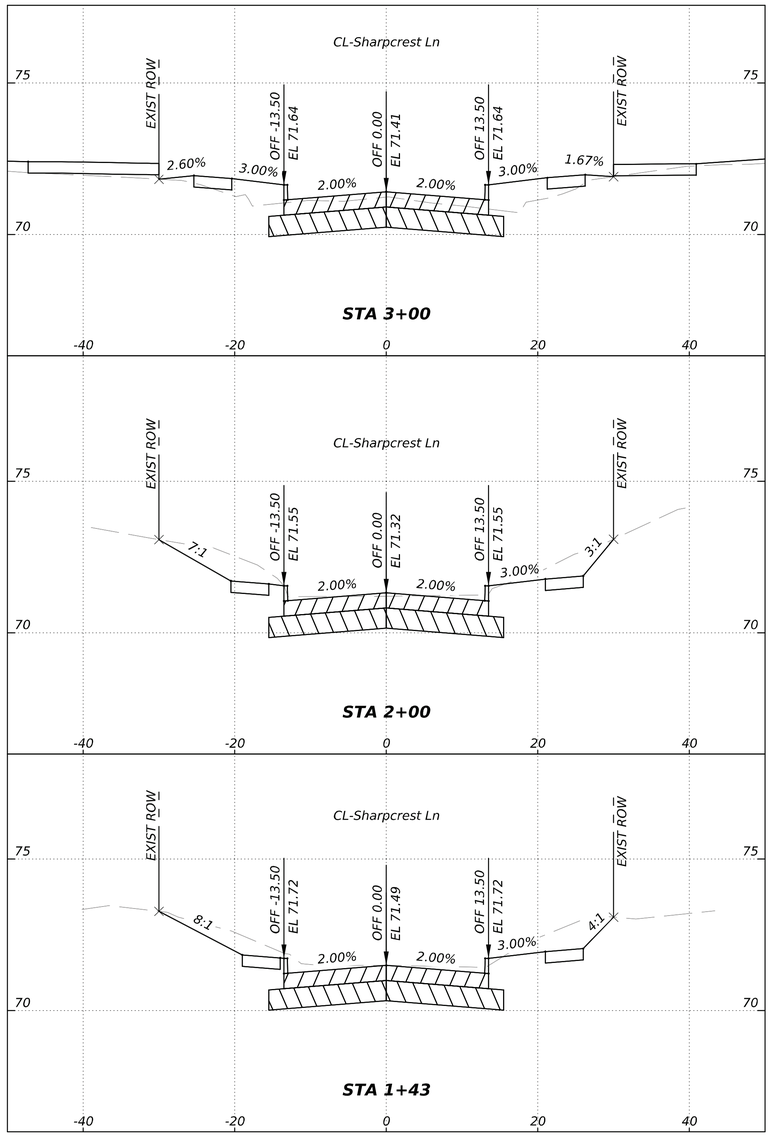
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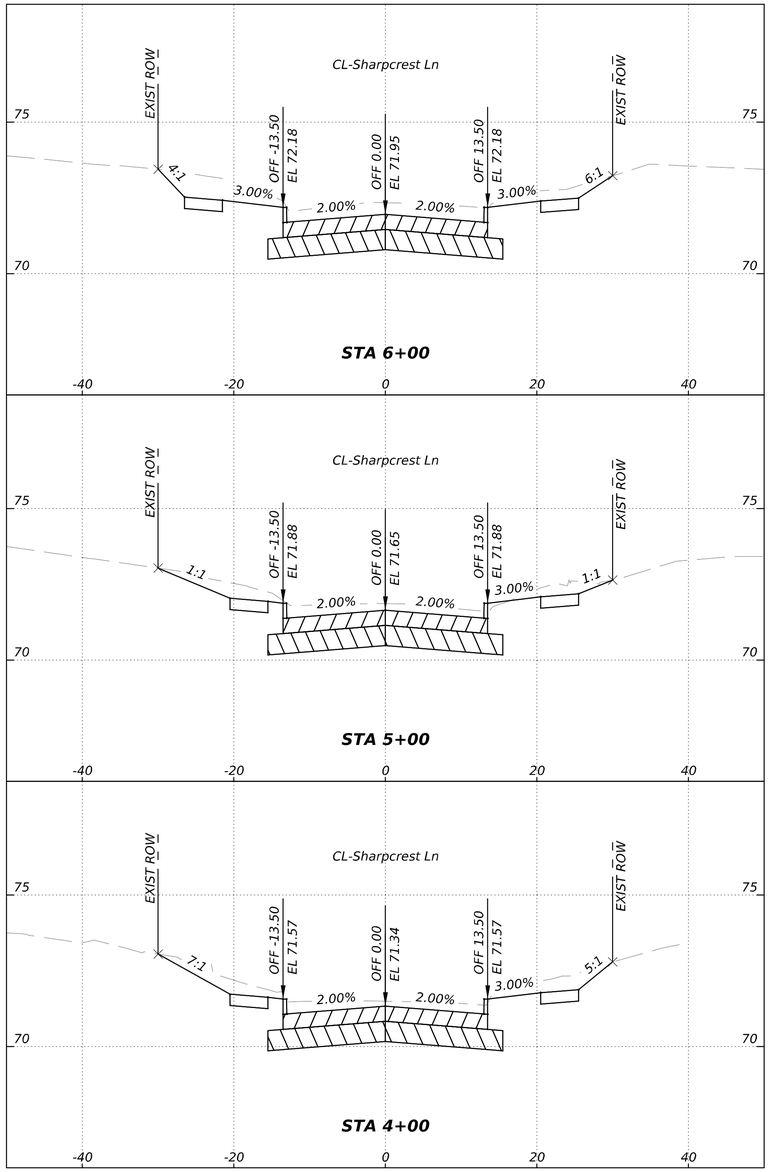
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0 10' 20'
SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE





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F 713 748 3748
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P.E. Reg No: 134936
DATE: JULY 2026

CITY OF HOUSTON
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CROSS SECTION

SHARPCREST LANE

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 158 OF 369	

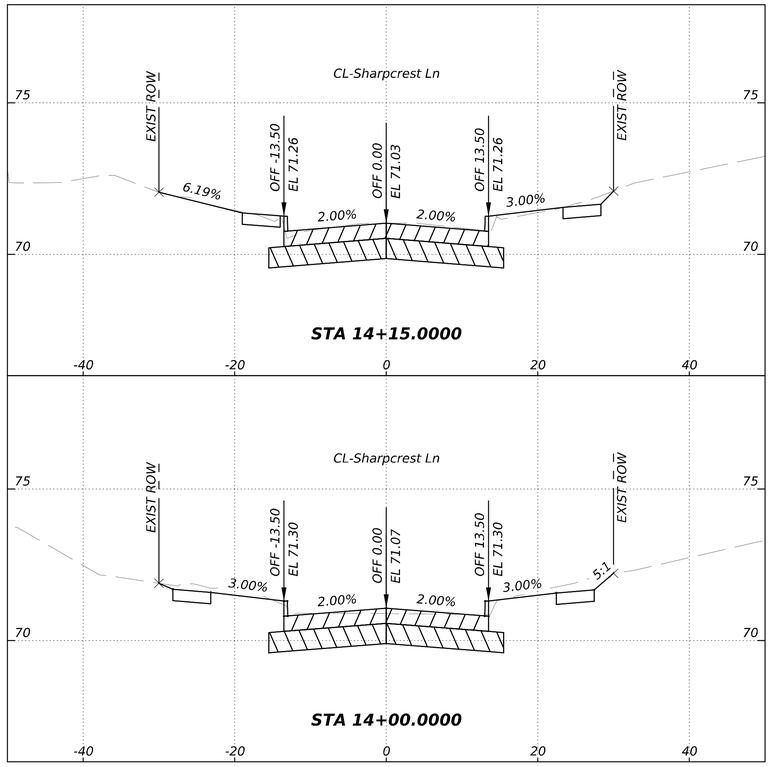
60% SUBMITTAL

0 10' 20'

SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE



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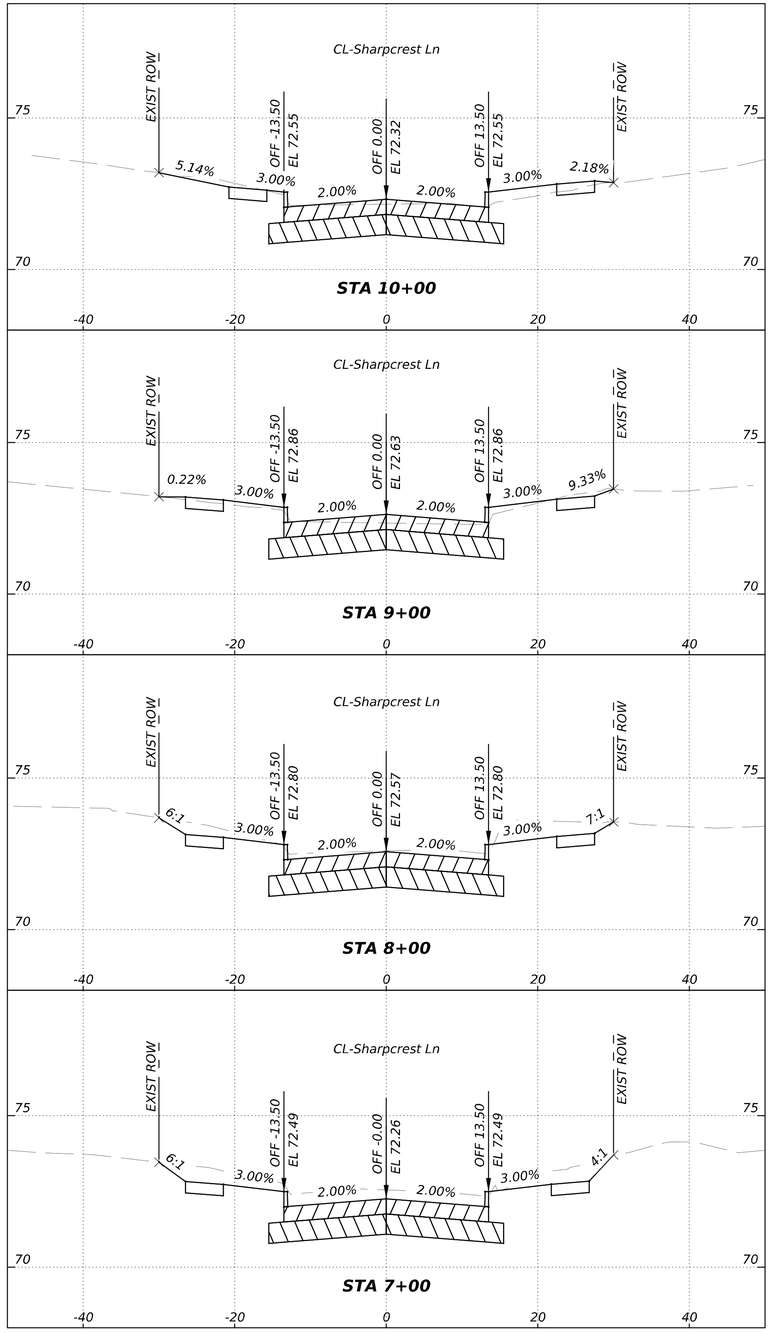
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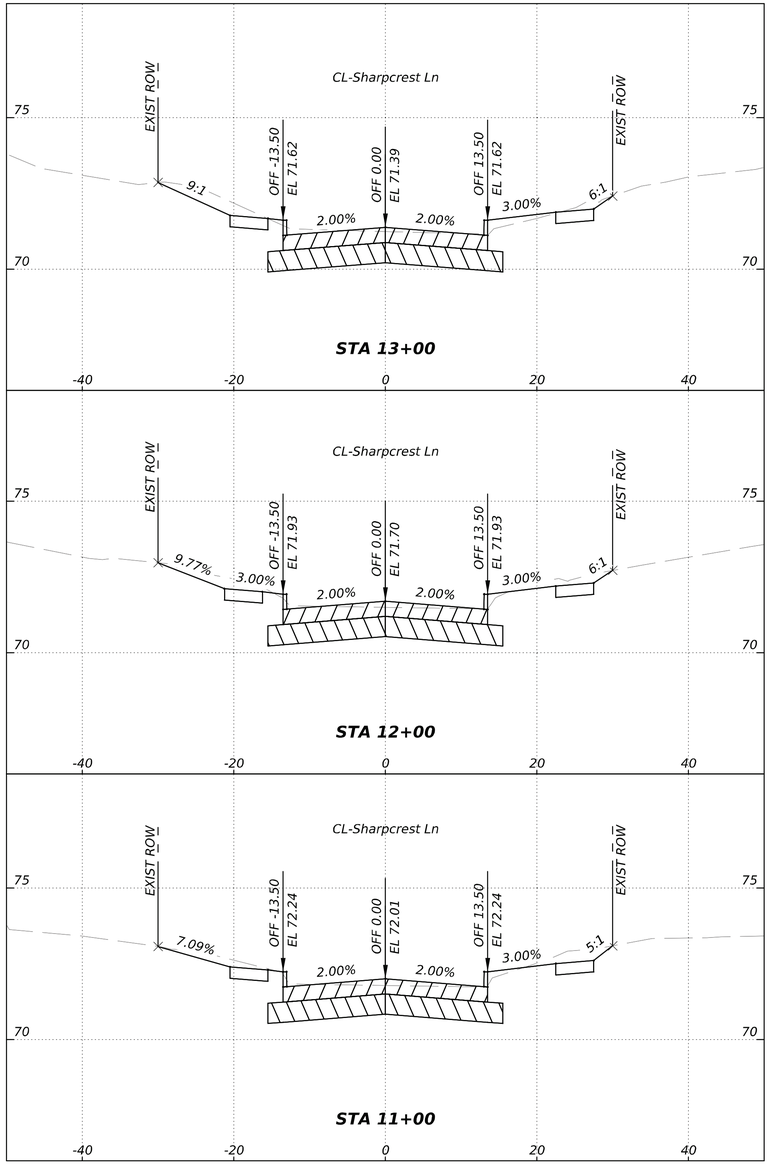
CROSS SECTION SHARPCREST LANE

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
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SHEET NO. 159 OF 369	

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FILE: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\Transportation\xref\97_OR_XS.dgn

60% SUBMITTAL





0 10' 20'

SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE

DATE: 8/10/2026 4:42:49 PM
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CROSS SECTION

SHARPCREST LANE

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
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SHEET NO. 160 OF 369	

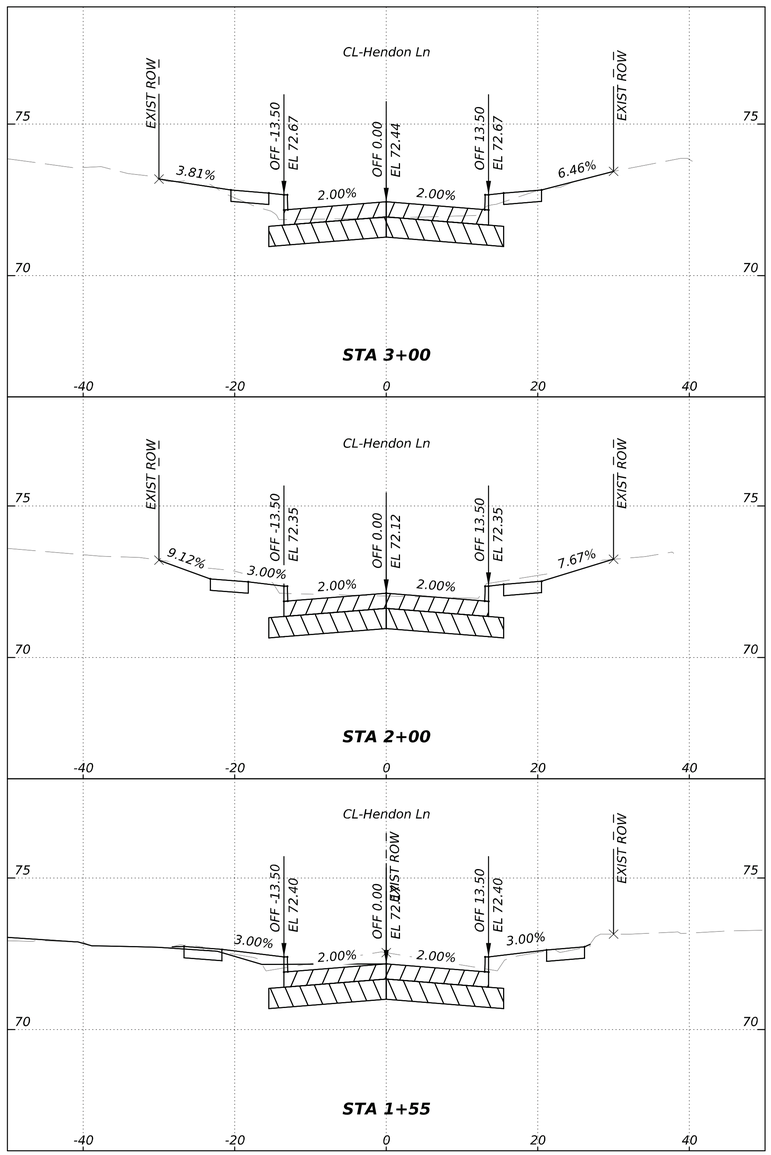
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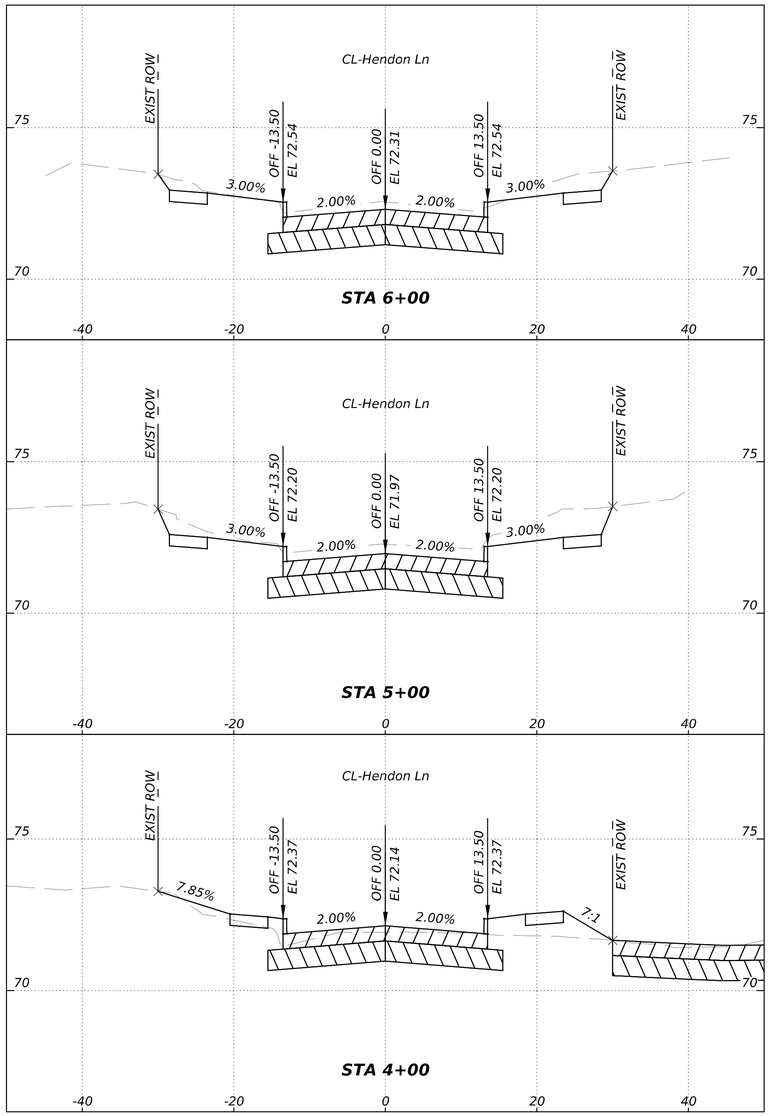
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0 10' 20'
SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE





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CROSS SECTION

HENDON LANE

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 161 OF 369	

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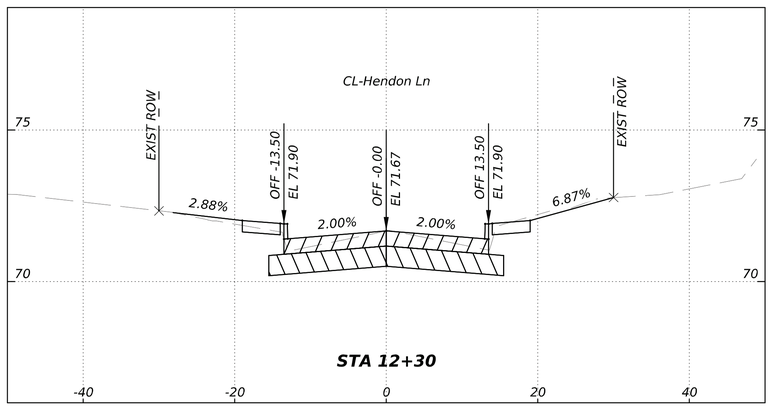
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0 10' 20'

SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE



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P.E. Reg No: 134936
DATE: JULY 2026

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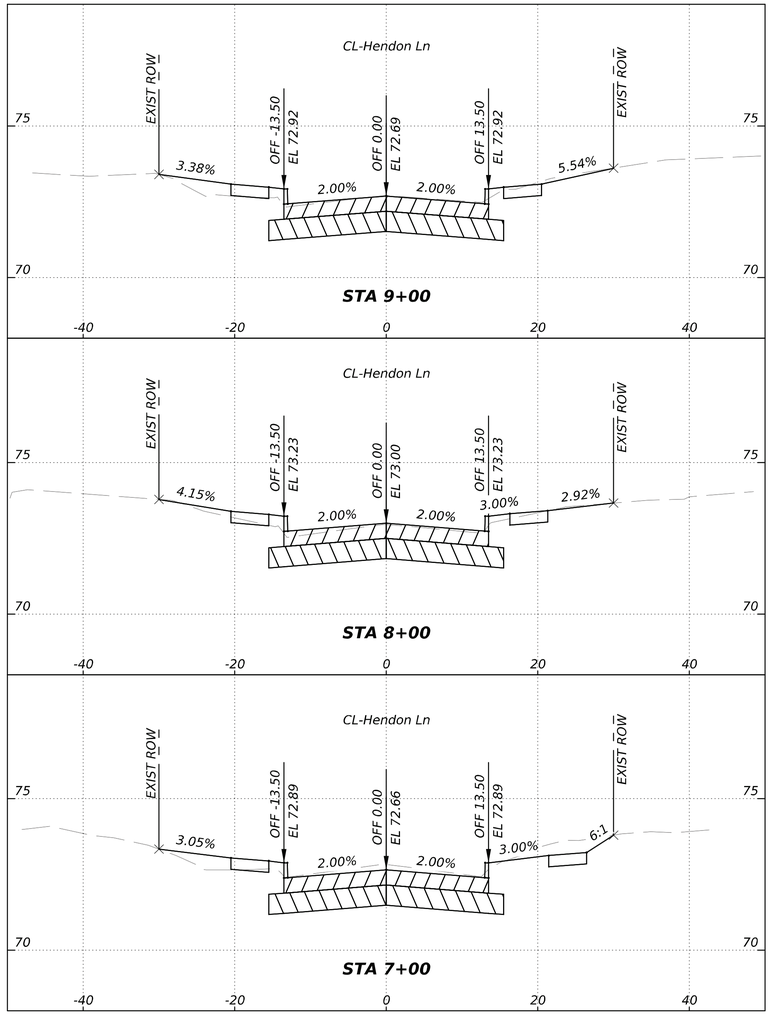
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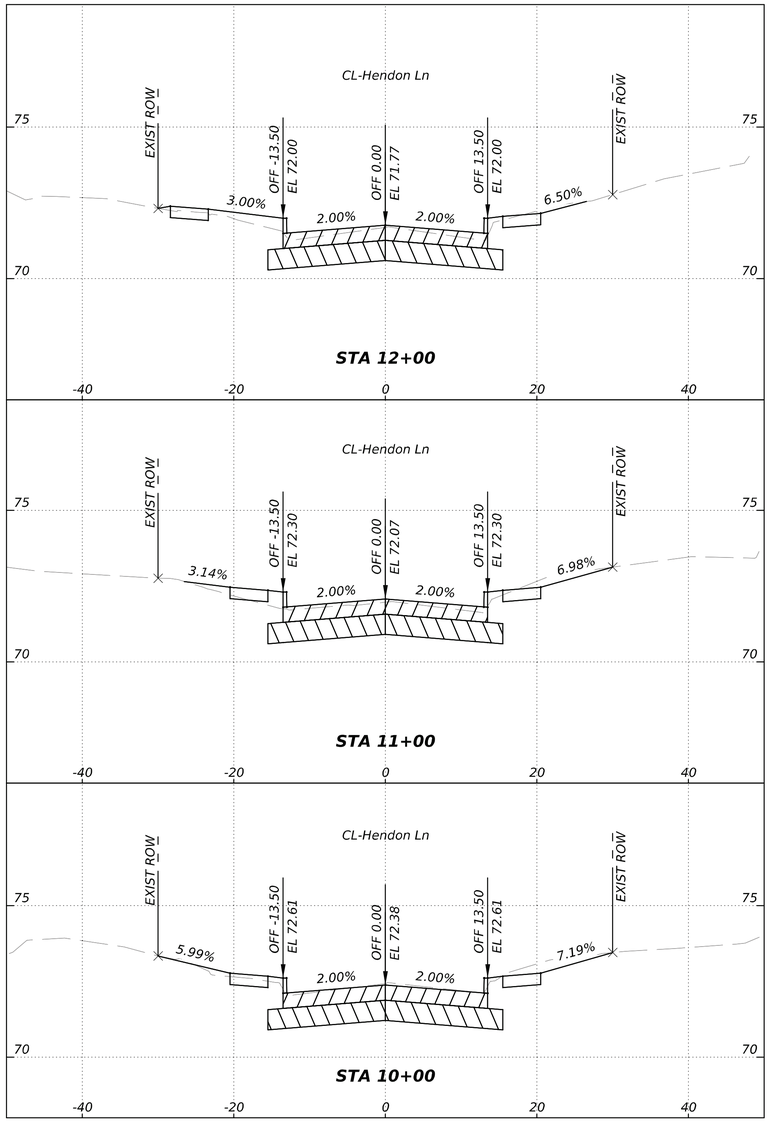
CROSS SECTION

HENDON LANE

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
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SHEET NO. 162 OF 369	

60% SUBMITTAL





0 10' 20'

SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE

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ALIEF FOREST SOUTH AREA PAVING AND DRAINGAE IMPROVEMENTS

CROSS SECTION

HENDON LANE

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
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SHEET NO. 163 OF 369	

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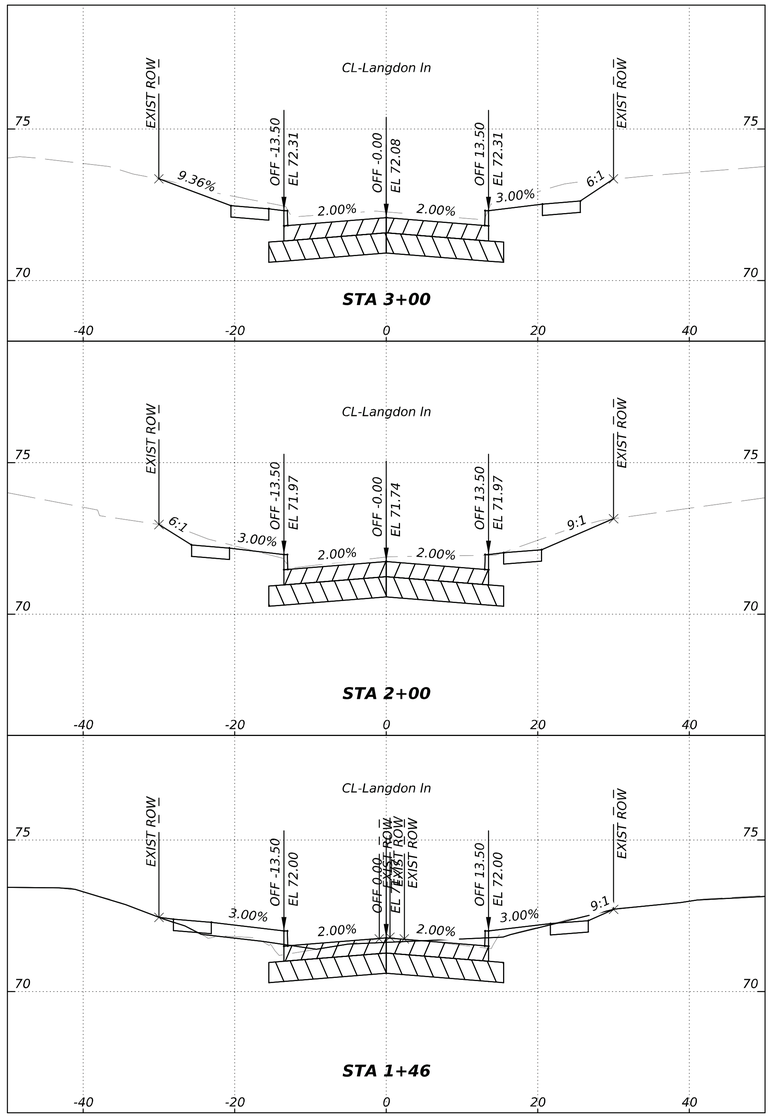
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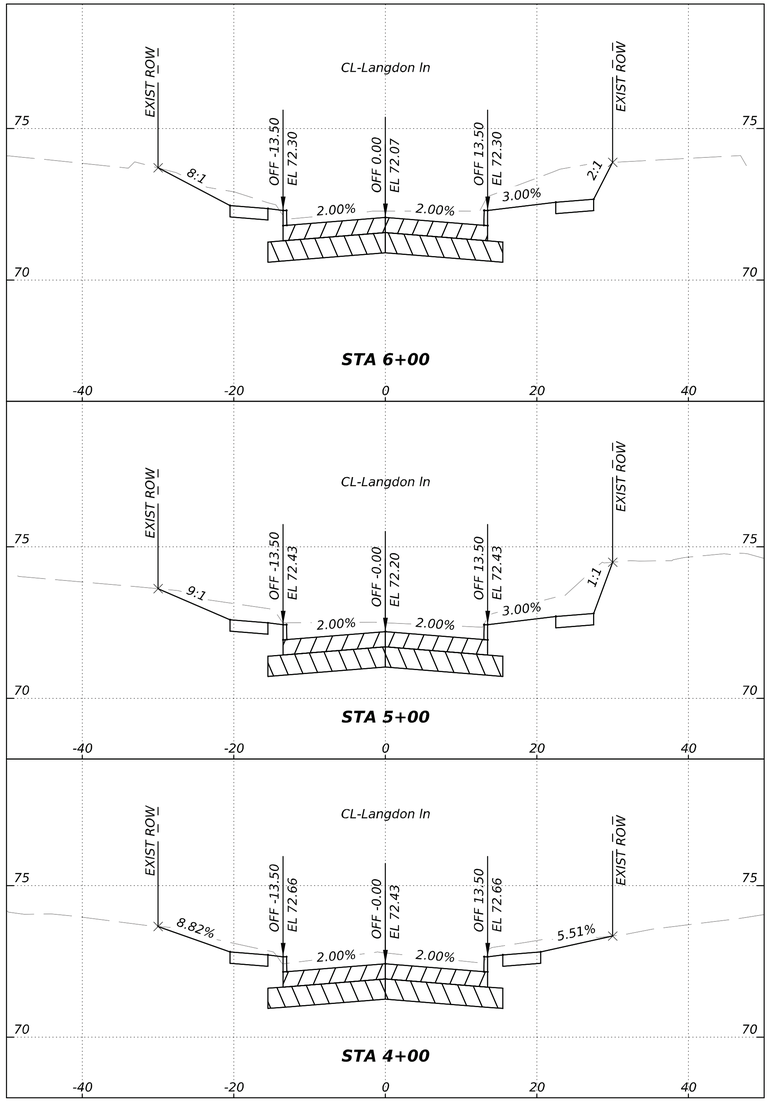
0 10' 20'

SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE





DATE: 8/10/2026 4:42:56 PM
FILE: P:\ACTIVE\18PV97 - 2024 Update\Ph II\Working\Transportation\xref\97_OR_XS.dgn

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P.E. Reg No: 134936
DATE: JULY 2026

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ALIEF FOREST SOUTH AREA PAVING AND DRAINGAE IMPROVEMENTS

CROSS SECTION

LANGDON LANE

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 164 OF 369	

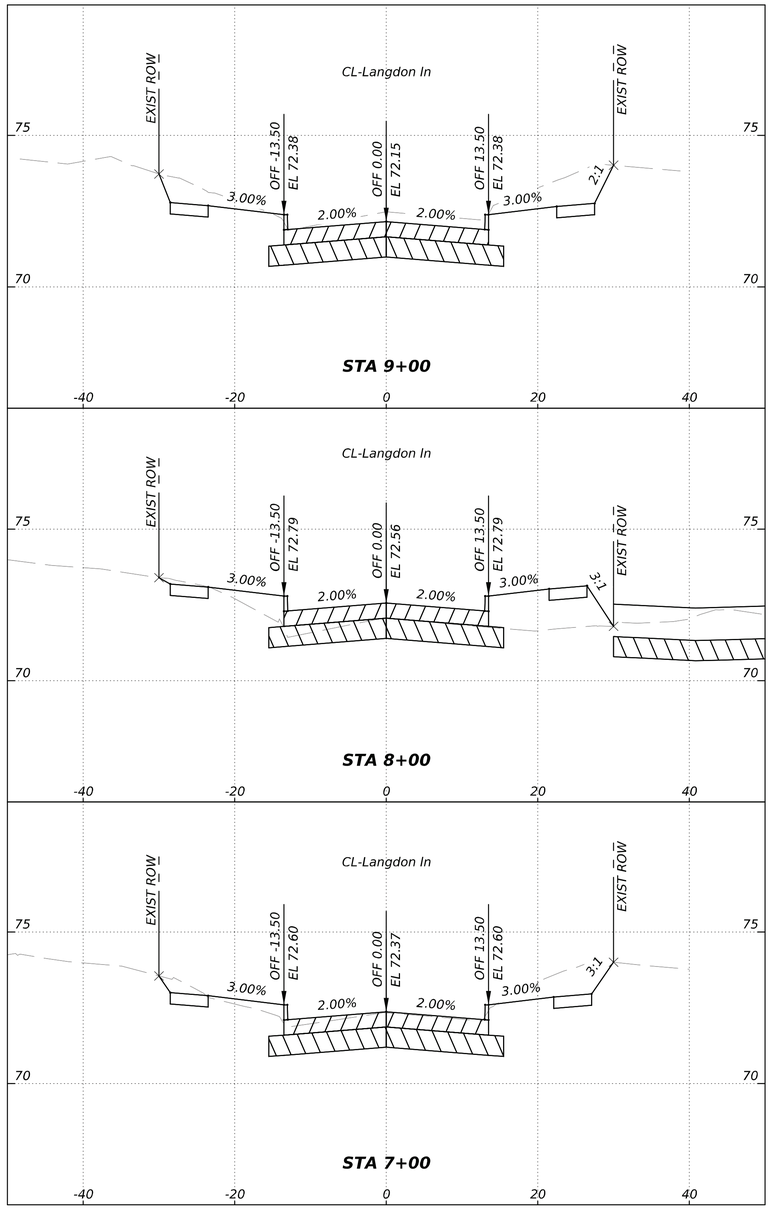
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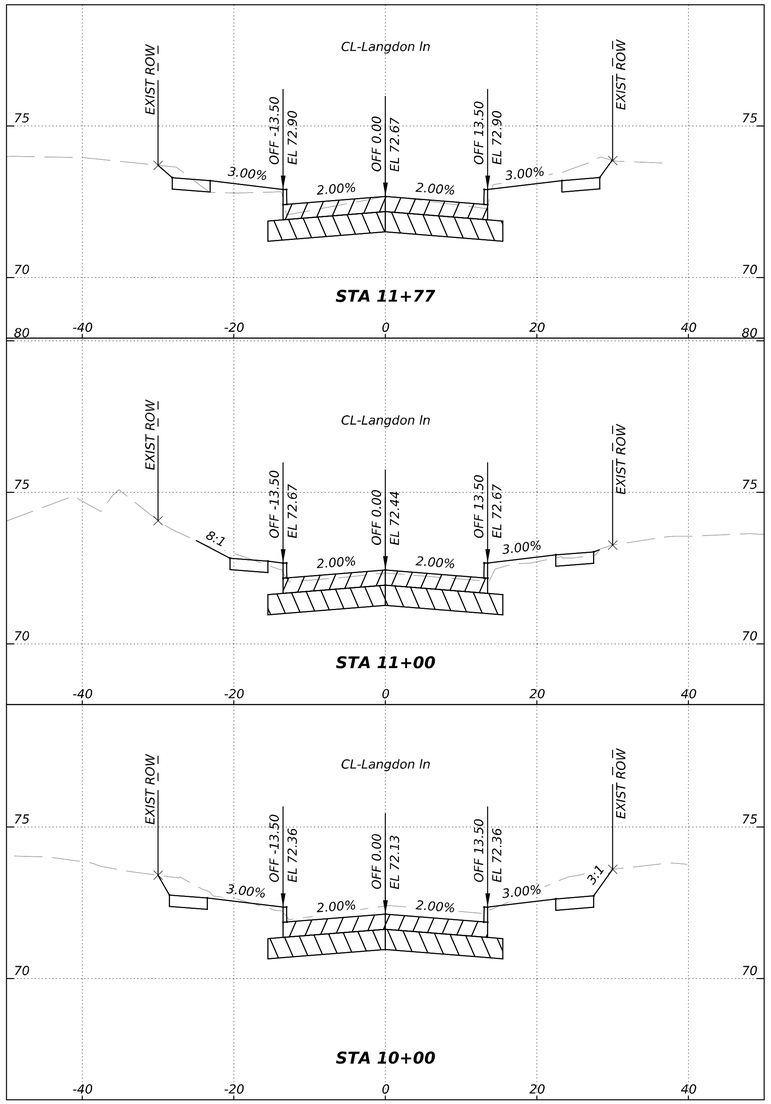
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0 10' 20'
SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE





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P.E. Reg No: 134936
DATE: JULY 2026

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ALIEF FOREST SOUTH AREA PAVING AND DRAINGAE IMPROVEMENTS

CROSS SECTION

LANGDON LANE

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
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SHEET NO. 165 OF 369	

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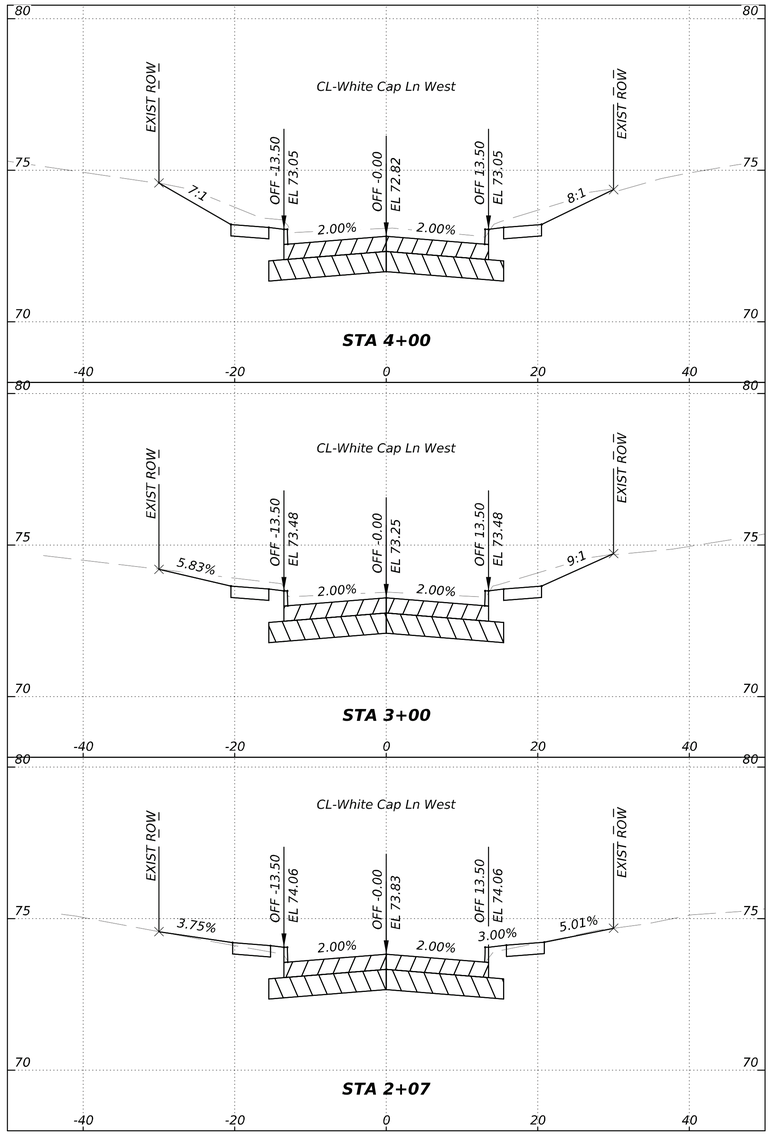
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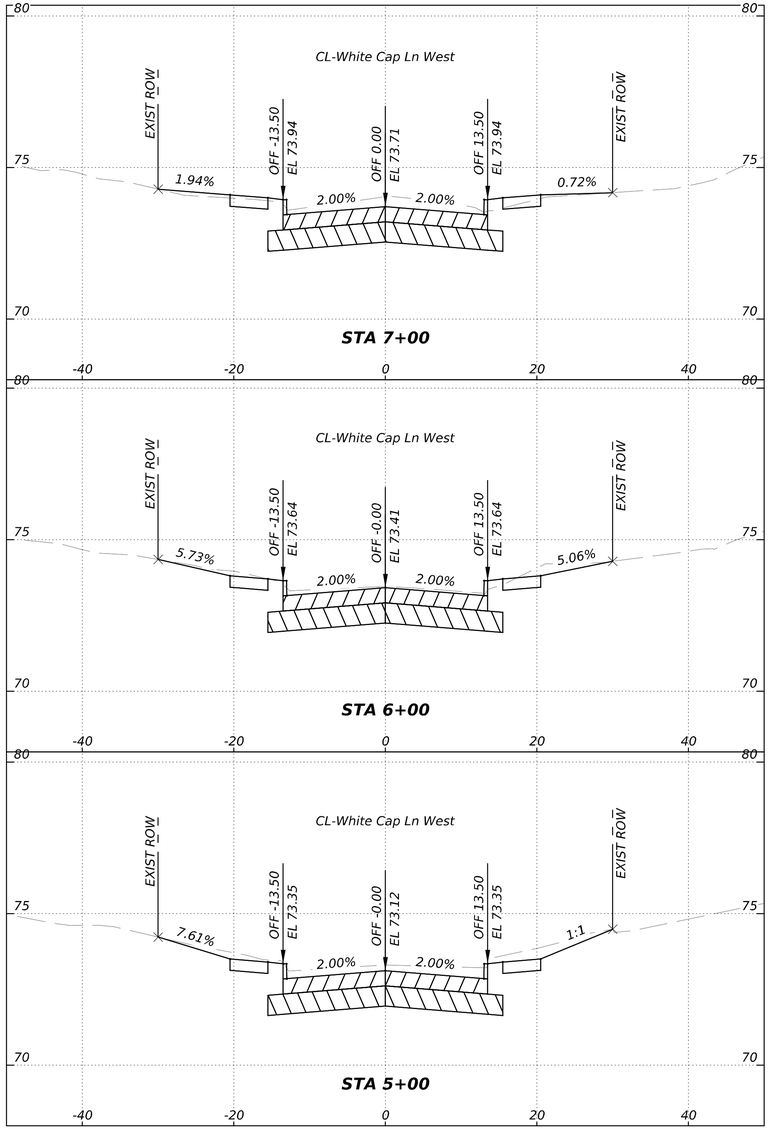
0 10' 20'

SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE





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P.E. Reg No: 134936
DATE: JULY 2026

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ALIEF FOREST SOUTH AREA PAVING AND DRAINGAE IMPROVEMENTS

CROSS SECTION

WHITE CAP LANE WEST

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
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SHEET NO. 166 OF 369	

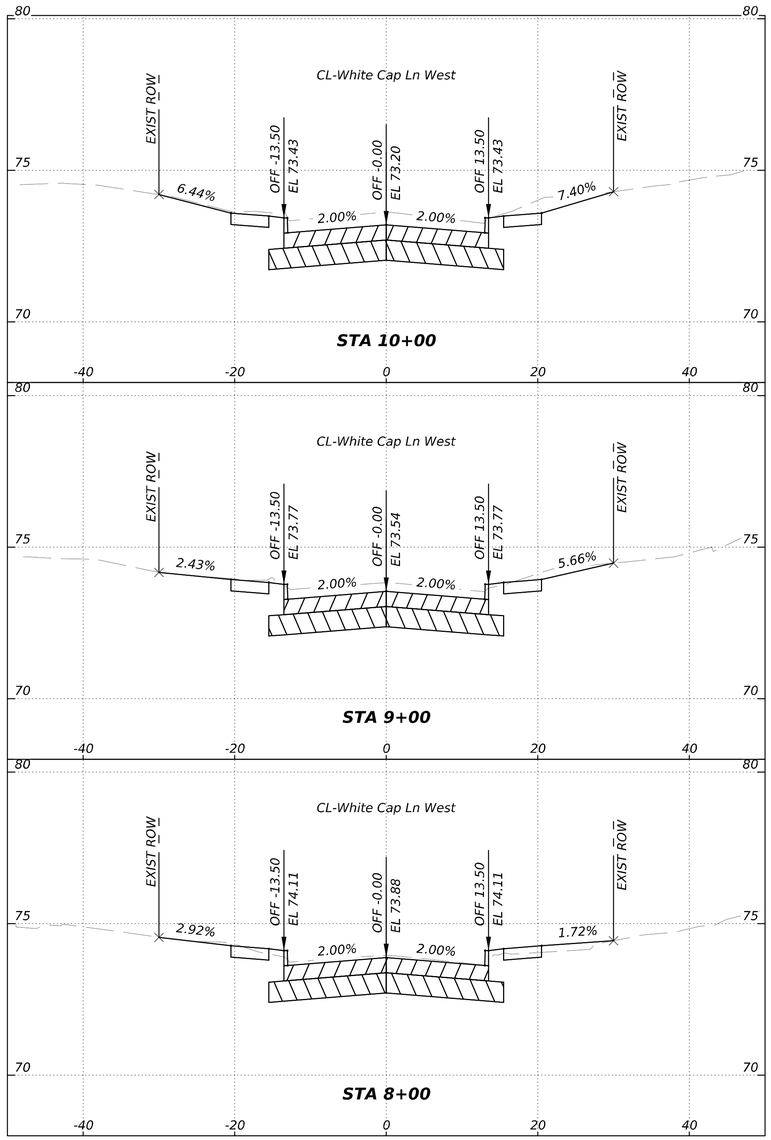
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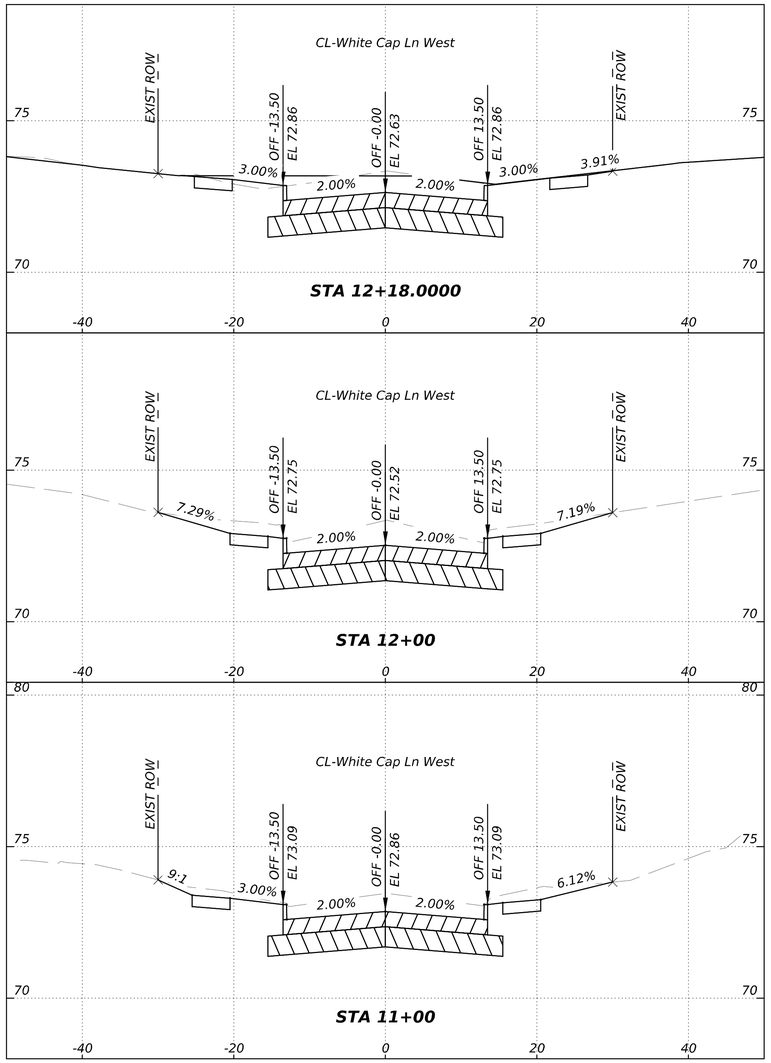
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0 10' 20'
SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE





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CROSS SECTION

WHITE CAP LANE WEST

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 167 OF 369	

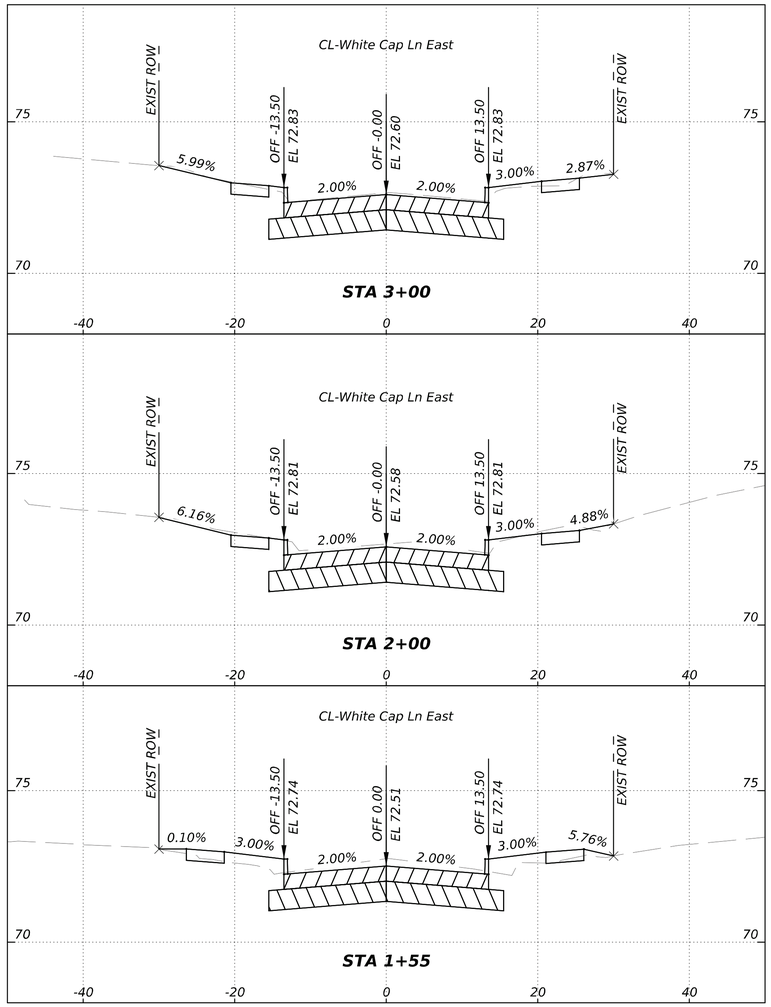
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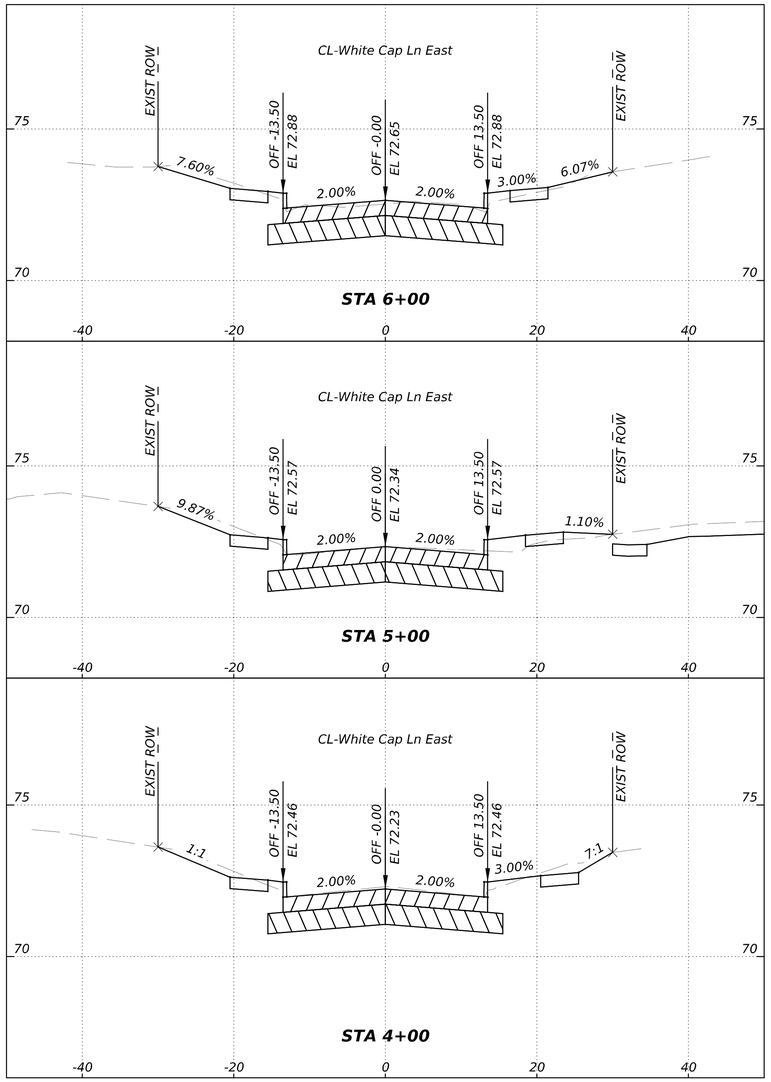
0 10' 20'

SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE





DATE: 8/10/2026 4:43:04 PM
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DATE: JULY 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINGAE IMPROVEMENTS

CROSS SECTION

WHITE CAP LANE EAST

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 168 OF 369	

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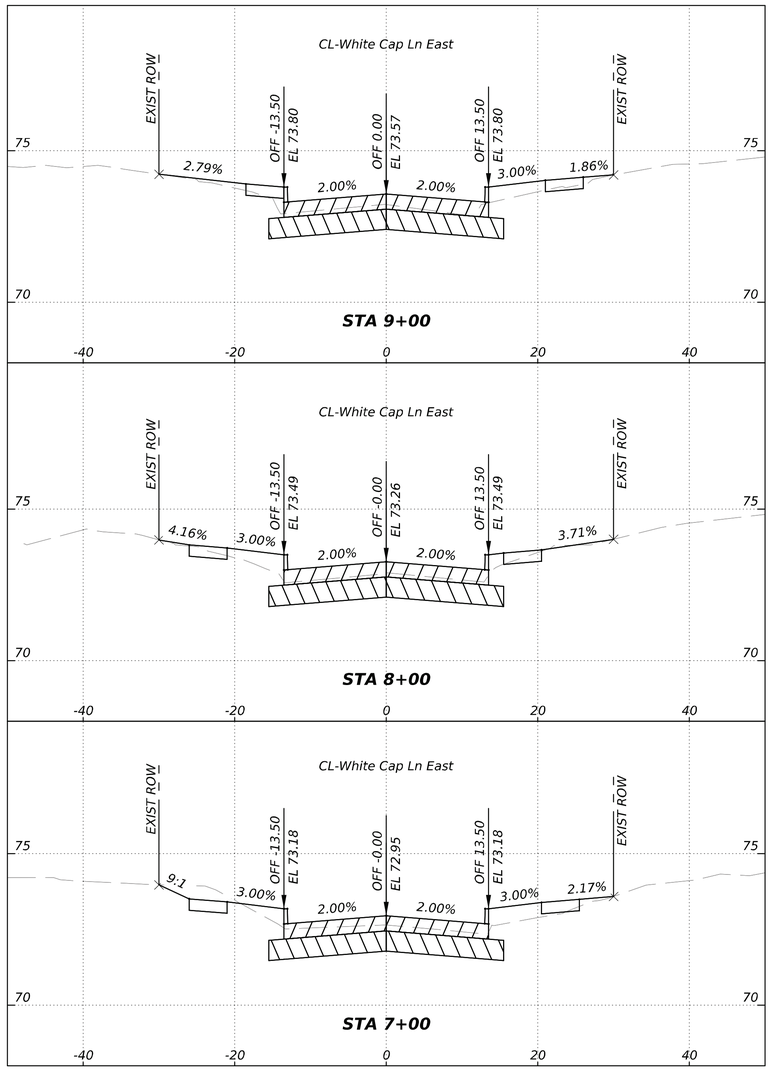
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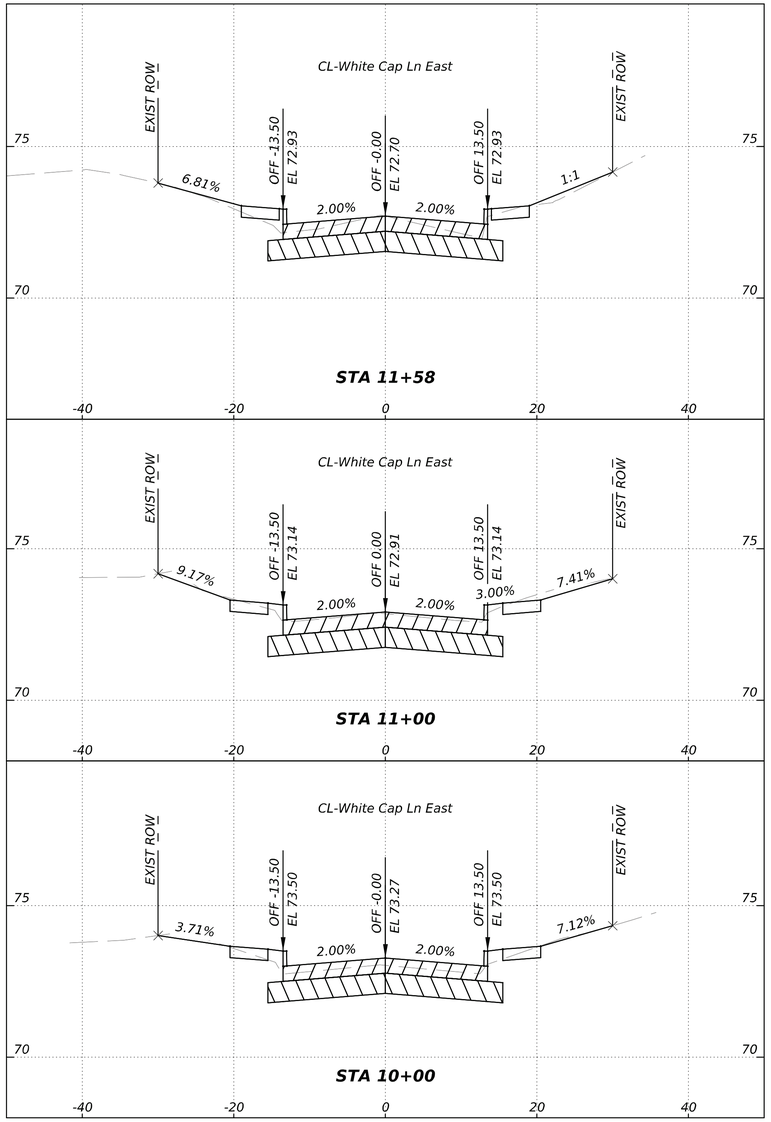
0 10' 20'

SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE





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HOUSTON PUBLIC WORKS

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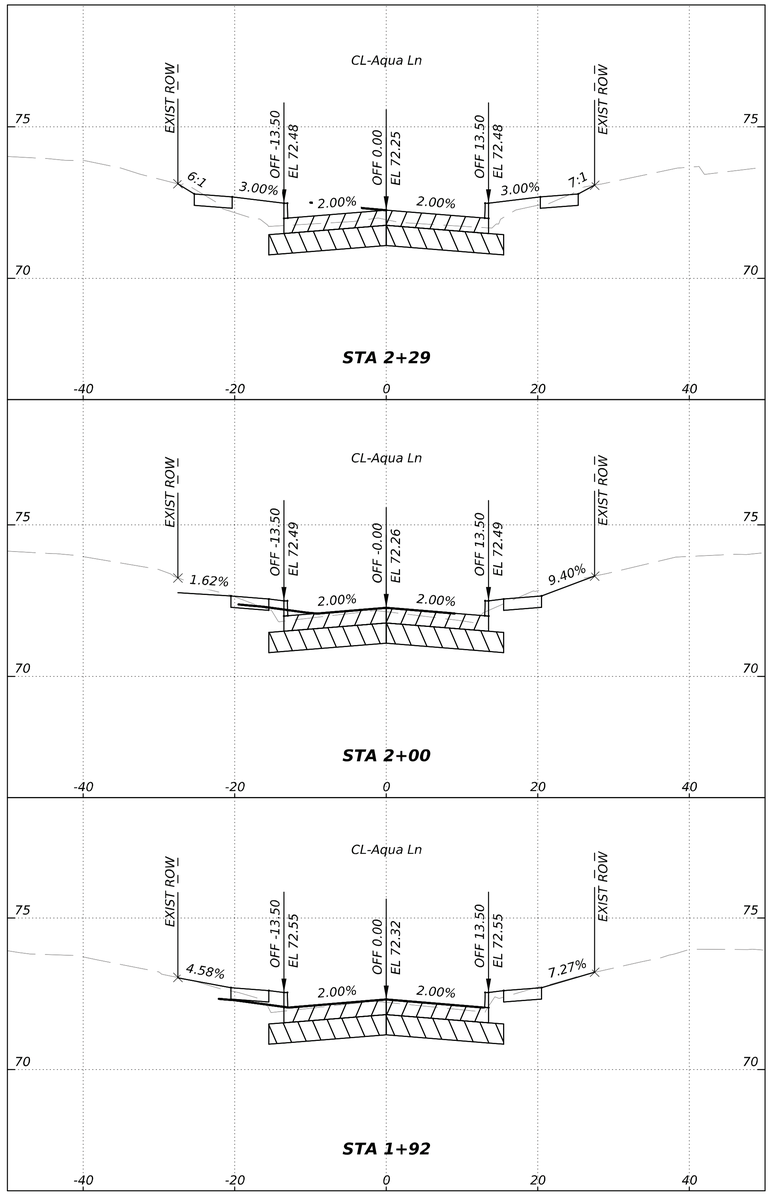
CROSS SECTION

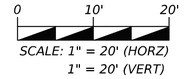
WHITE CAP LANE EAST

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 169 OF 369	

60% SUBMITTAL

DATE: 8/10/2026 4:43:08 PM
FILE: P:\ACTIVE\18PV97 - 2024 Update\Ph III\Working\Transportation\xref\97_OR_XS.dgn





PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE

ISANI
civil | design | engineers
10448 Westoffice Drive
Houston, Texas 77042
P 713 747 2399
F 713 748 3748
TBPE Firm Reg. #4575

INTERIM REVIEW ONLY
DOCUMENT INCOMPLETE:
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ENGINEER: V. N. MURTHY MADE, P.E
P.E. Reg No: 124936
DATE: JULY 2026

SURVEYED BY: Kuo&Assoclates
FB NO. P-6382

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINGAE IMPROVEMENTS

CROSS SECTION

AQUA LANE

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 170 OF 369	

60% SUBMITTAL

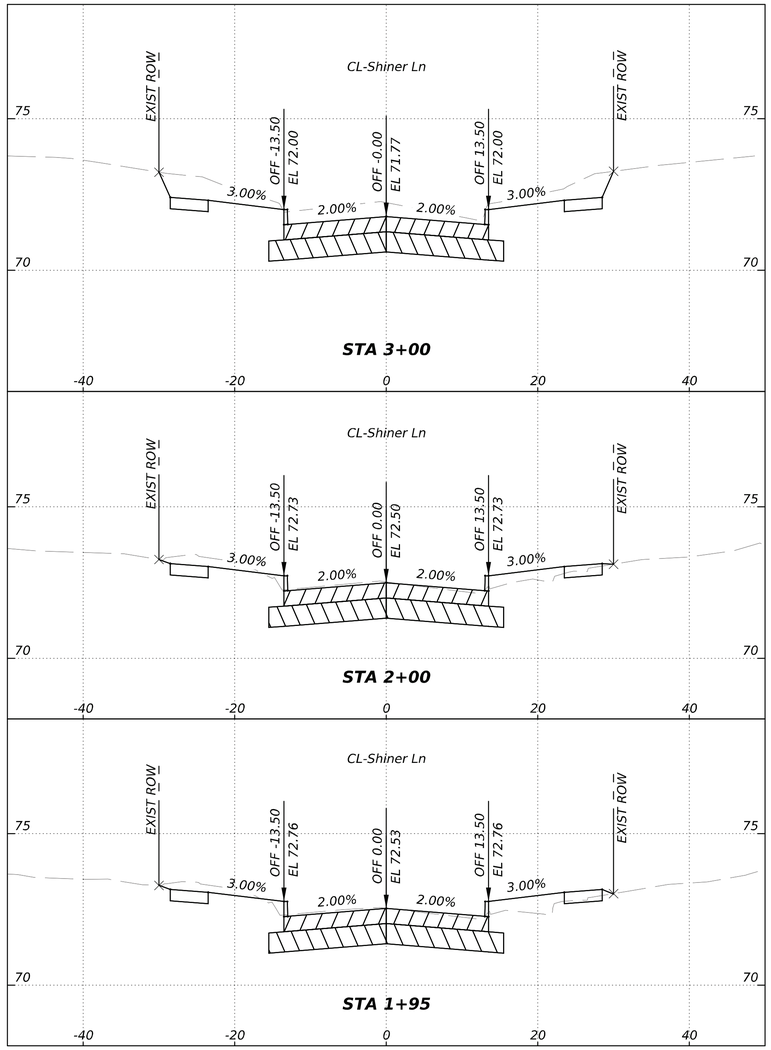
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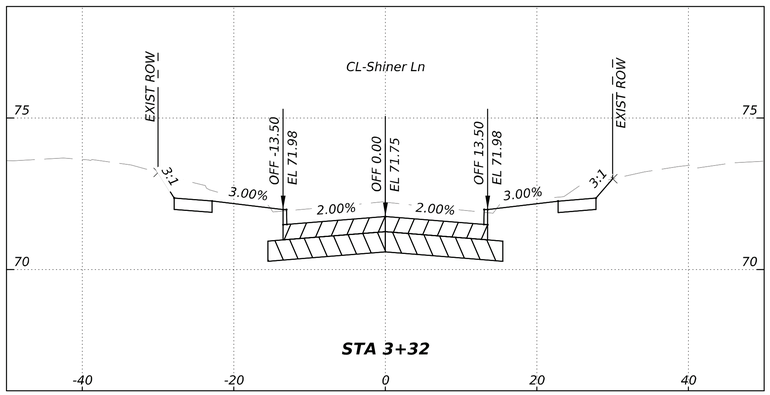
0 10' 20'

SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE





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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

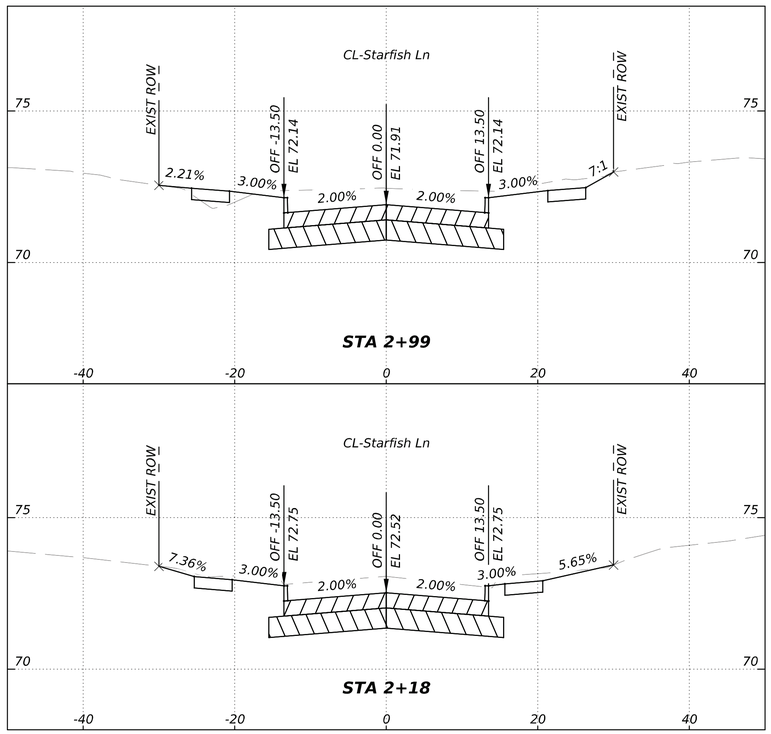
ALIEF FOREST SOUTH AREA PAVING AND DRAINGAE IMPROVEMENTS

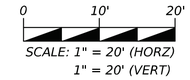
CROSS SECTION

SHINER LANE

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 171 OF 369	

60% SUBMITTAL





PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE

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P.E. Reg No: 134936
DATE: JULY 2026

CITY OF HOUSTON
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ALIEF FOREST SOUTH AREA PAVING AND DRAINGAE IMPROVEMENTS

CROSS SECTION

STARFISH LANE

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 172 OF 369	

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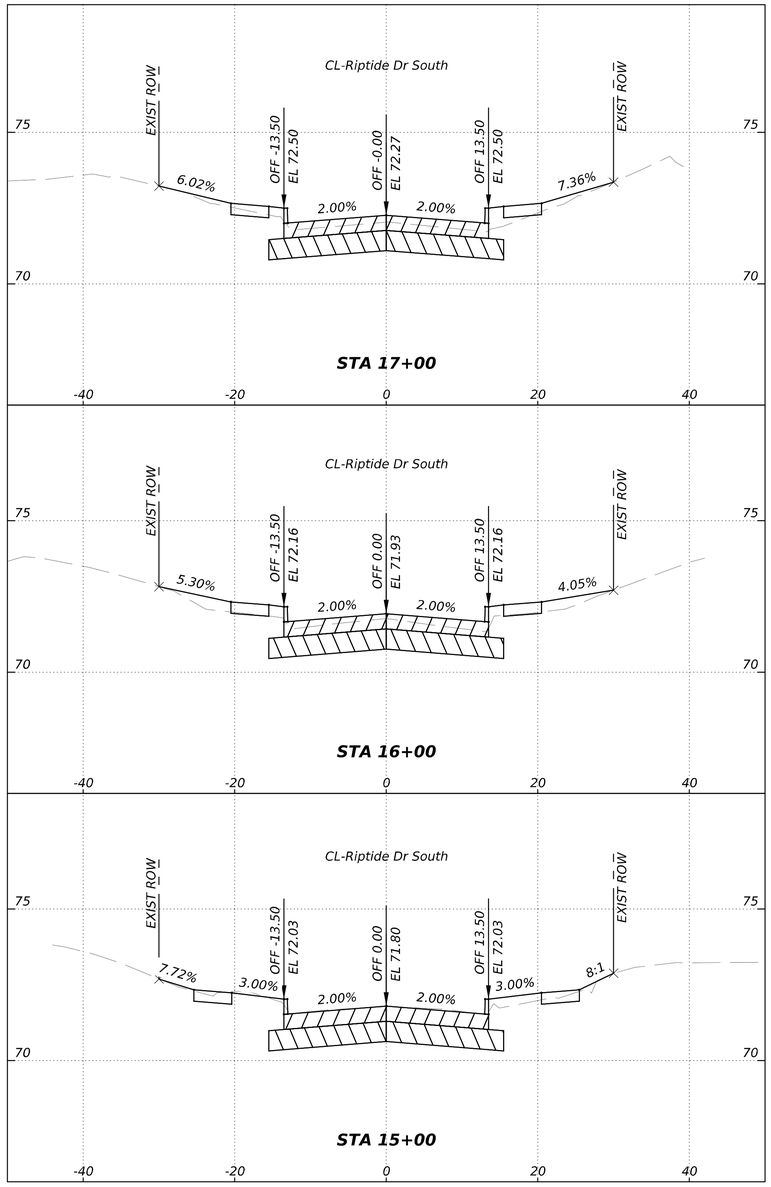
60% SUBMITTAL

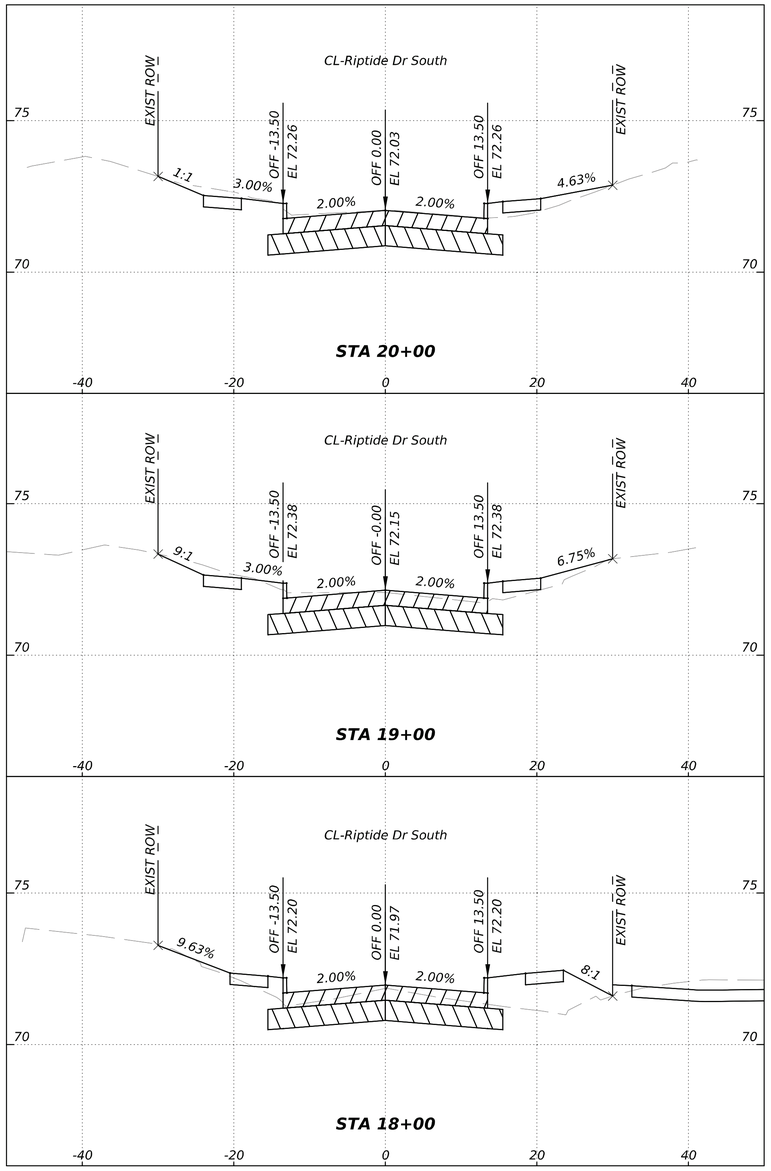
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0 10' 20'
SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE





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P.E. Reg No: 134936
DATE: JULY 2026

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ALIEF FOREST SOUTH AREA PAVING AND DRAINGAE IMPROVEMENTS

CROSS SECTION

REPTIDE DRIVE SOUTH

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 173 OF 369	

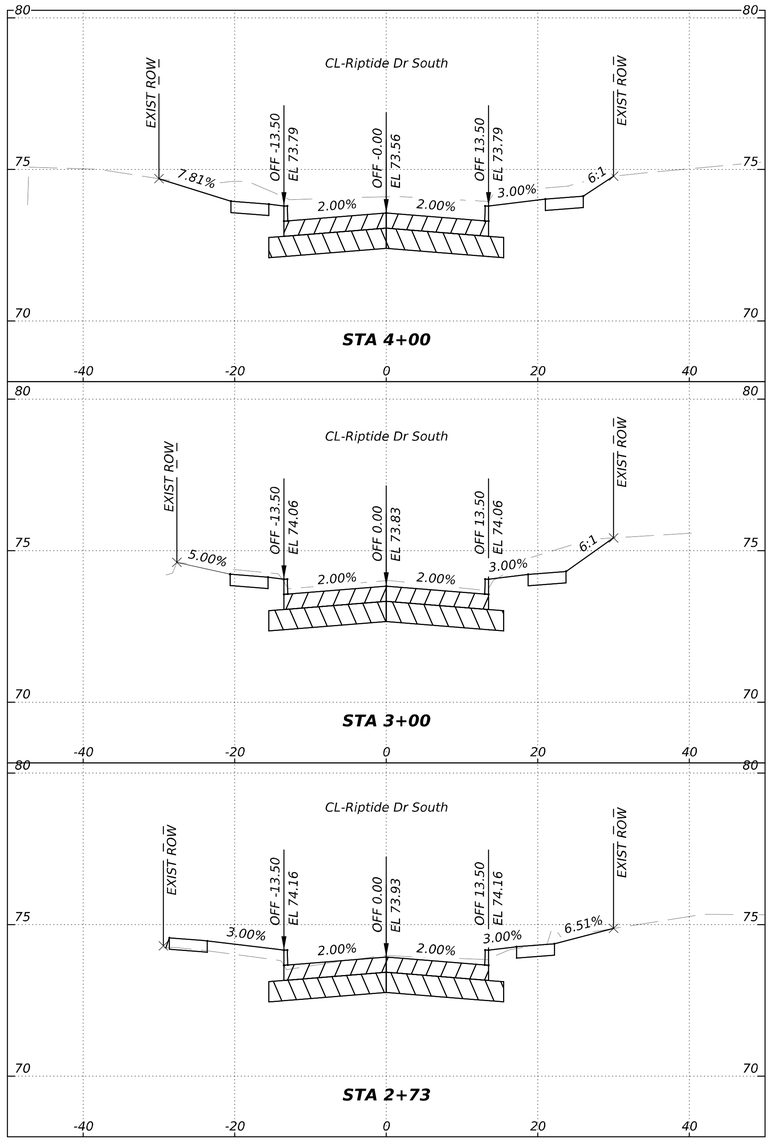
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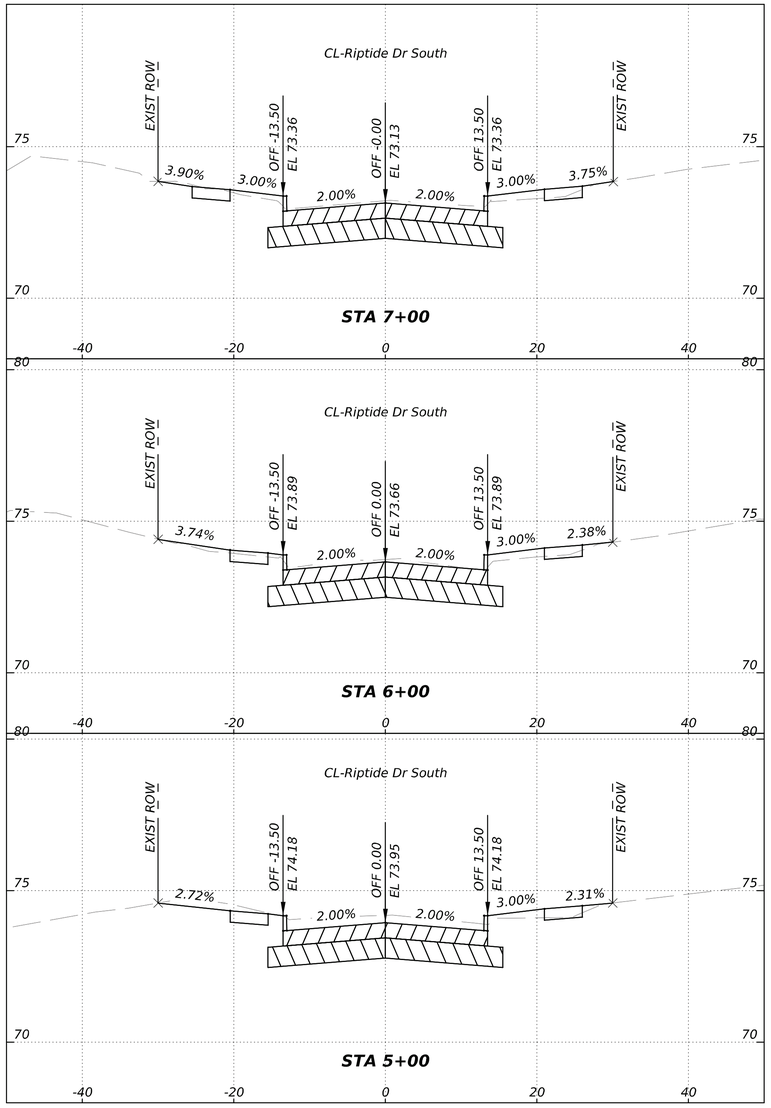
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FILE: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\Transportation\xref\97_OR_XS.dgn

0 10' 20'
SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE





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P.E. Reg No: 134936
DATE: JULY 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINGAE IMPROVEMENTS

CROSS SECTION

RIPTIDE DRIVE SOUTH

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 174 OF 369	

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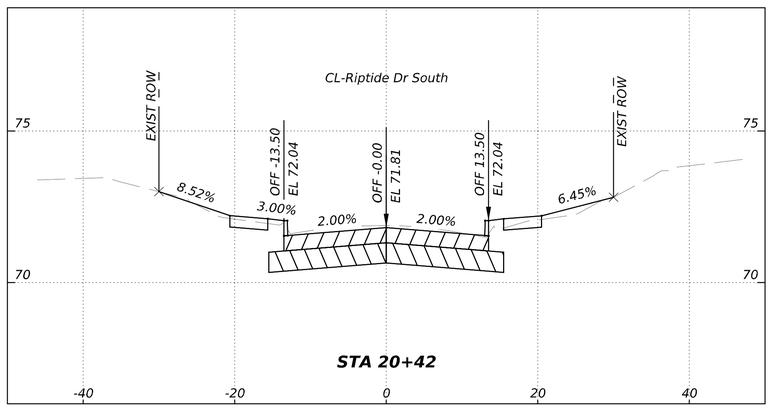
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0 10' 20'

SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE



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P.E. Reg No: 134936
DATE: JULY 2026

SURVEYED BY: Kuo&Assoclates
FB NO. P-6382

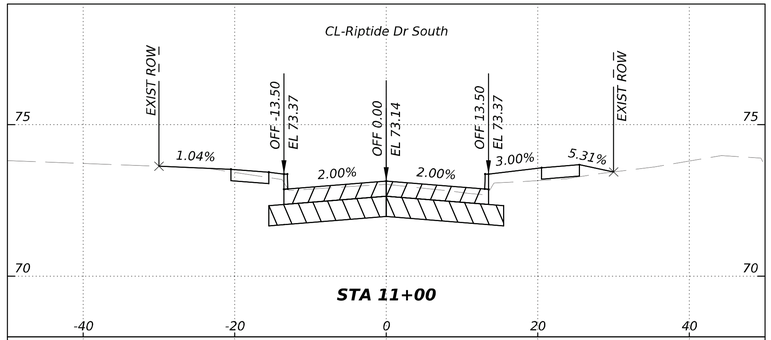
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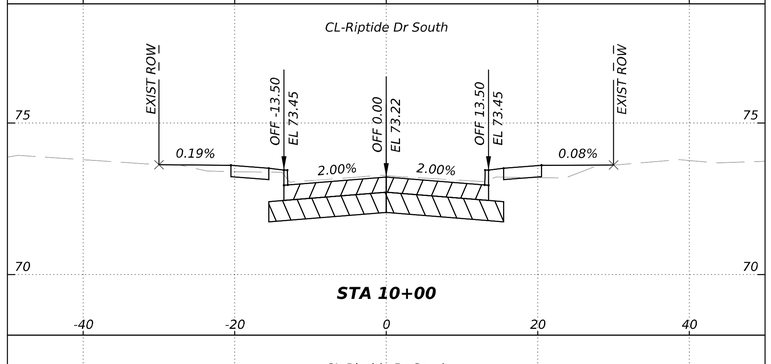
ALIEF FOREST SOUTH AREA PAVING AND DRAINGAE IMPROVEMENTS

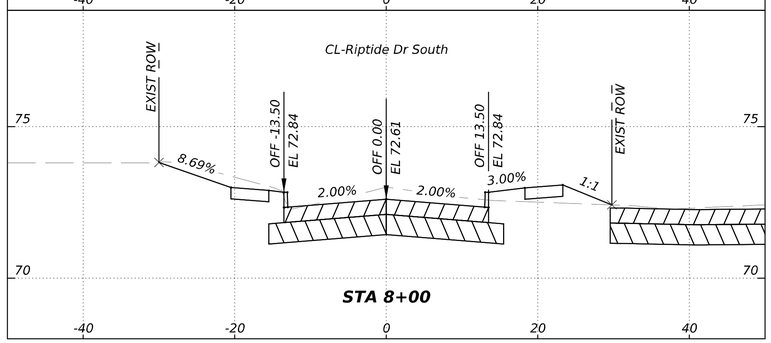
CROSS SECTION

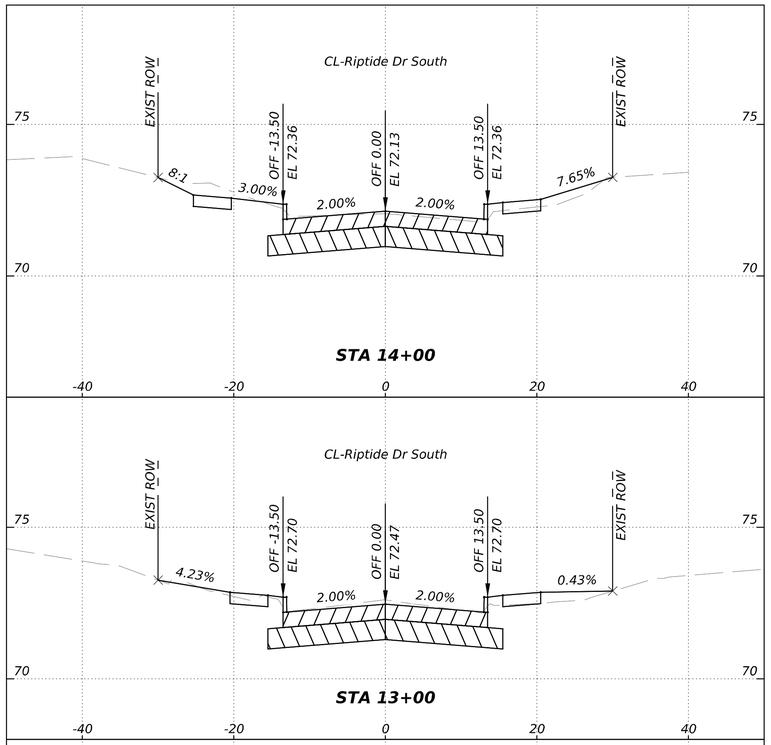
REPTIDE DRIVE SOUTH

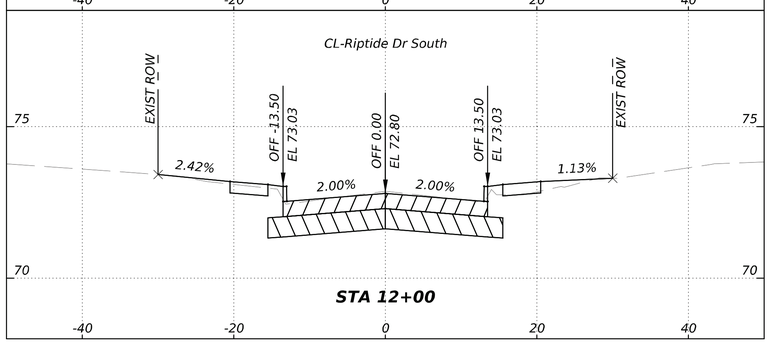
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 175 OF 369	











0 10' 20'

SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE

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civil | design \ engineers
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FB NO. P-6382

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ENGINEER: V. N. MURTHY MADE, P.E
P.E. Reg No: 124936
DATE: JULY 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINGAE IMPROVEMENTS

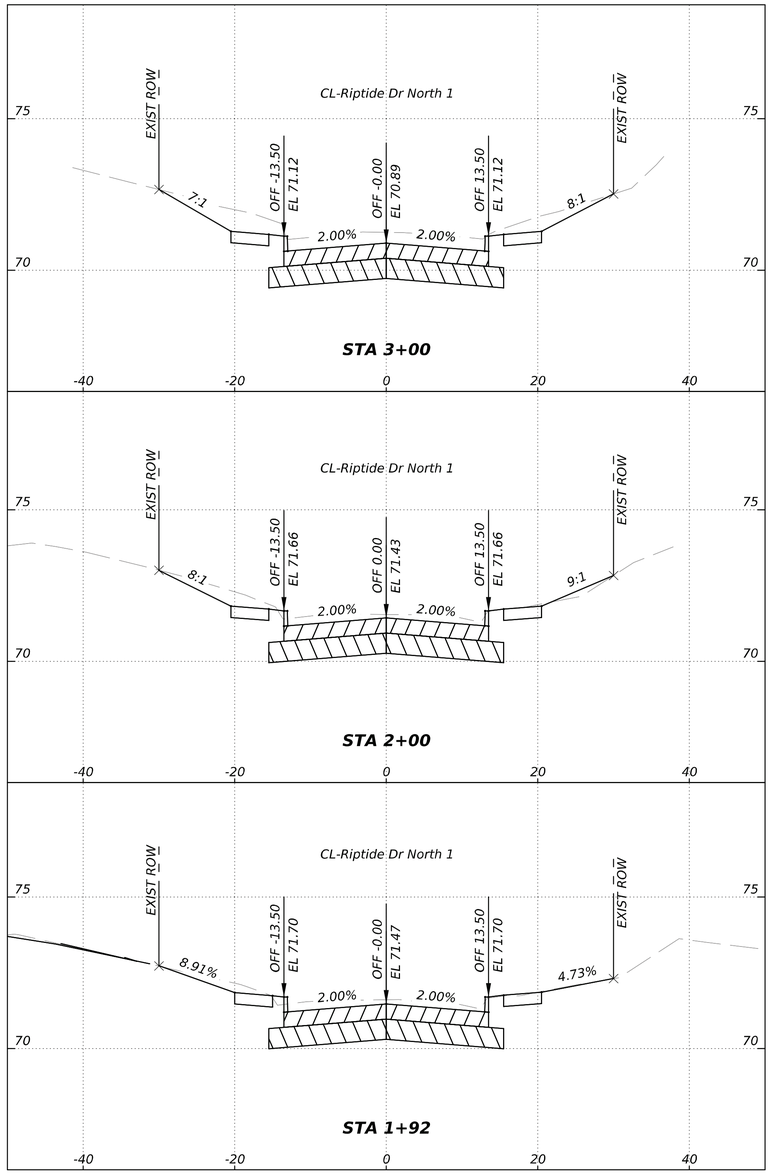
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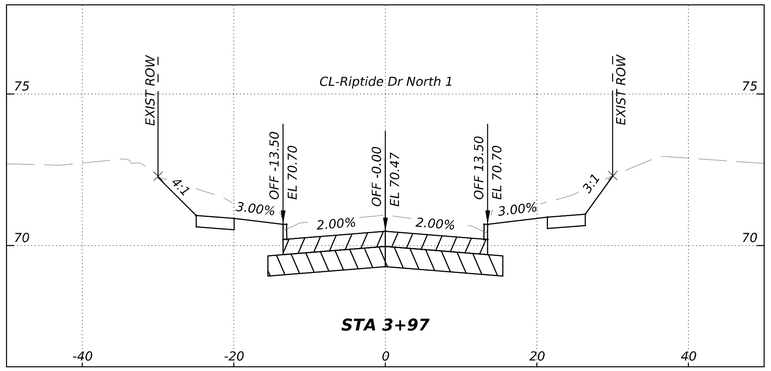
REPTIDE DRIVE SOUTH

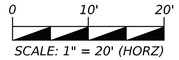
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 176 OF 369	

DATE: 8/10/2026 4:43:17 PM
FILE: P:\ACTIVE\18PV97 - 2024 Update\Ph II\Working\Transportation\xref\97_OR_XS.dgn

60% SUBMITTAL







SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE

DATE: 8/10/2026 4:43:19 PM
FILE: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\Transportation\xref\97_OR_XS.dgn

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ENGINEER: V. N. MURTHY MADE, P.E
P.E. Reg No: 134936
DATE: JULY 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINGAE IMPROVEMENTS

CROSS SECTION

REPTIDE DRIVE NORTH 1

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 177 A OF 369	

60% SUBMITTAL

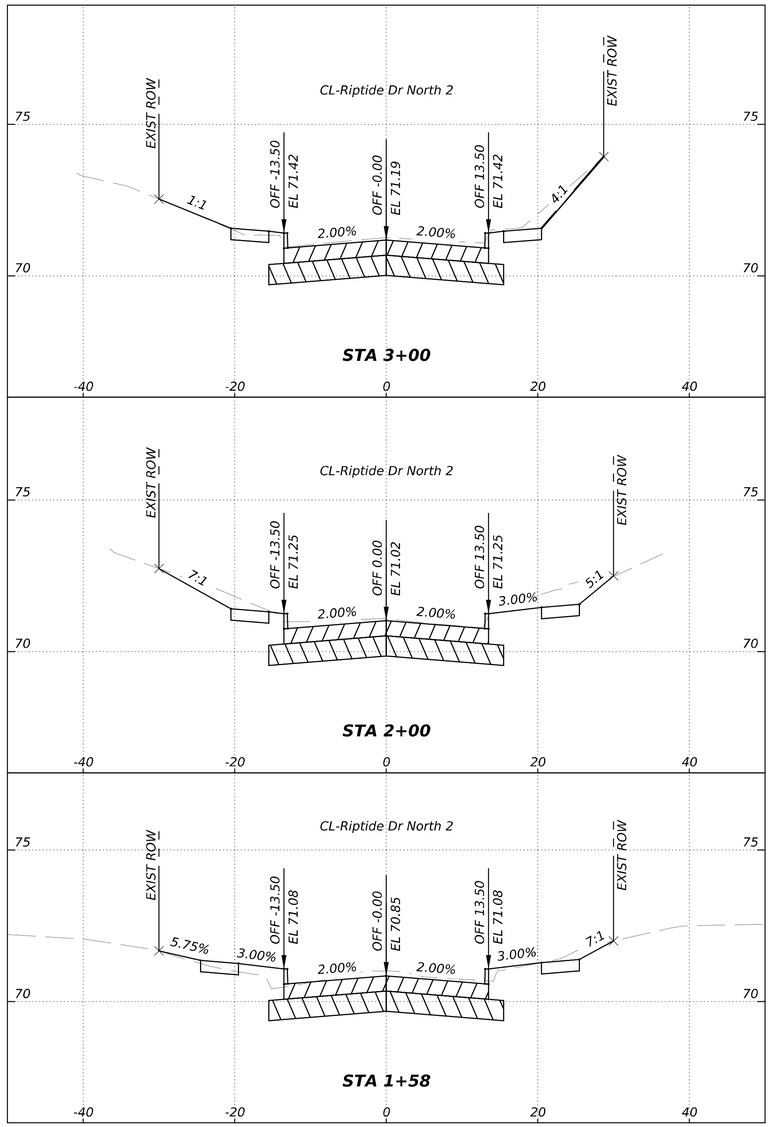
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0 10' 20'

SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

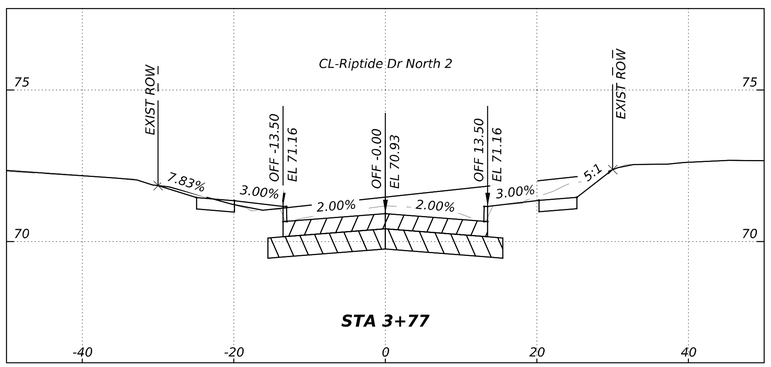
PROP 8" LIME STABLIZED SUB GRADE



STA 3+00

STA 2+00

STA 1+58



STA 3+77

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P.E. Reg No: 134936
DATE: JULY 2026

CITY OF HOUSTON
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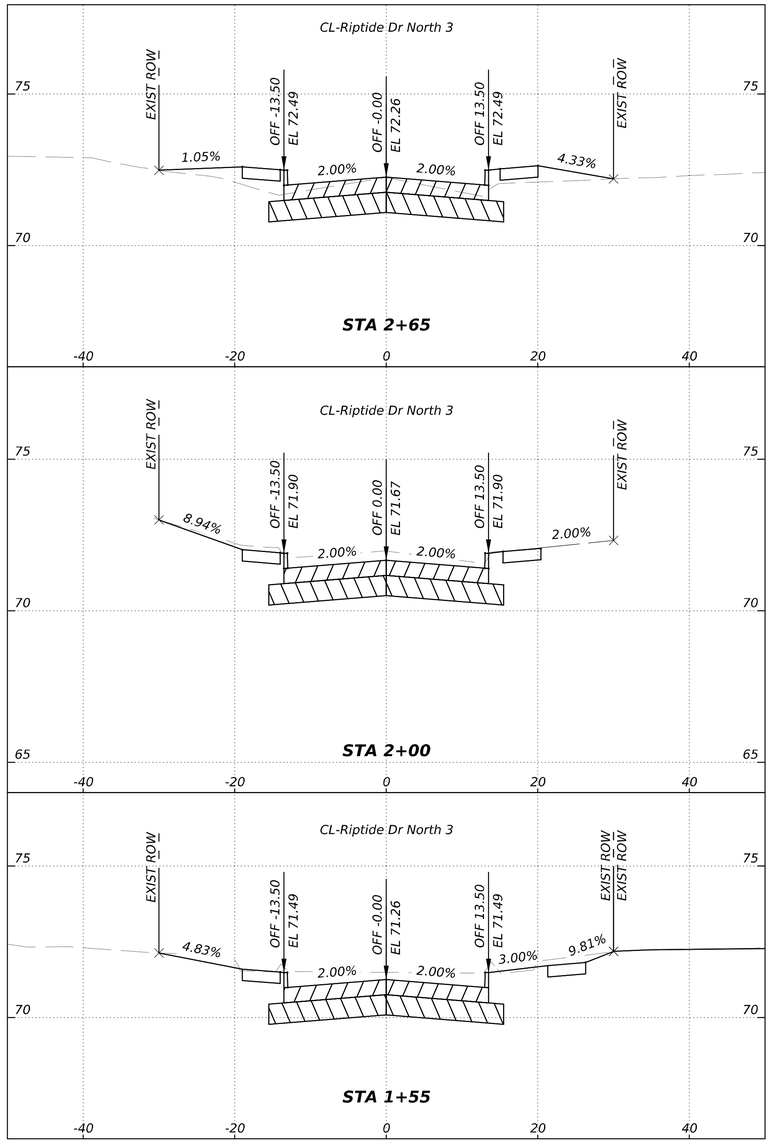
ALIEF FOREST SOUTH AREA PAVING AND DRAINGAE IMPROVEMENTS

CROSS SECTION

REPTIDE DRIVE NORTH 2

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 177 B OF 369	

60% SUBMITTAL



0 10' 20'

SCALE: 1" = 20' (HORZ)
1" = 20' (VERT)

PROP 6" REINFORECED CONCRETE PAVEMENT

PROP 8" LIME STABLIZED SUB GRADE

DATE: 8/10/2026 4:43:22 PM
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P.E. Reg No: 134936
DATE: JULY 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINGAE IMPROVEMENTS

CROSS SECTION

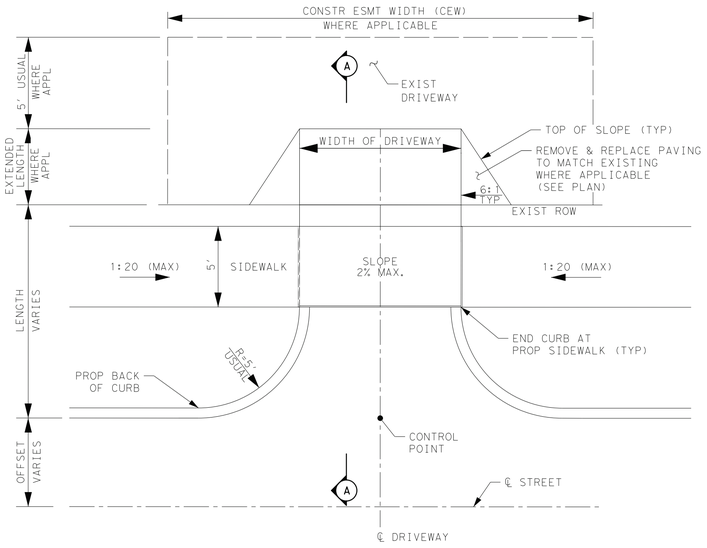
REPTIDE DRIVE NORTH 3

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
AS SHOWN	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 177 C OF 369	

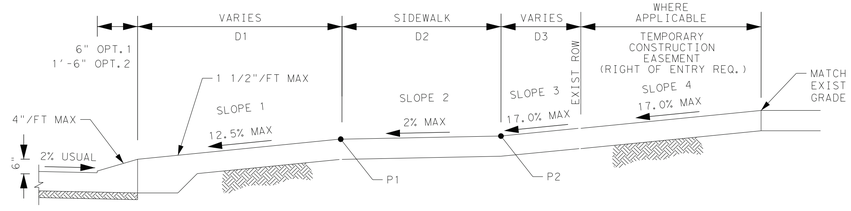
DRIVEWAY NO.	DRWY TYPE			STA	OFFSET	DRIVEWAY WIDTH	DRIVEWAY LENGTH	LEFT / RIGHT CURB RETURN RADIUS		DRIVEWAY AREA	ELEVATION AT GUTTER	ELEVATION AT CURB/ CL	ELEVATION AT ROW	DELTA ELEVATION	OVERALL SLOPE	SIDEWALK									CONSTRUCTION EASEMENT		
	DECORATIVE	COMMERCIAL	RESIDENTIAL					LEFT	RIGHT							SLOPE	DISTANCE	OPT1 or OPT2	ELEVATION	SLOPE	DISTANCE	ELEVATION	DISTANCE	SLOPE	DISTANCE (ROW TO EASE.)	ELEVATION AT EASEMENT	SLOPE
																S1	D1		P1	S2	D2	P2	D3	S3			S4
						(FT)	(FT)	(FT)	(FT)	(SF)	(FT)	(FT)	(FT)	(FT)	(%)	(%)	(FT)	(FT)	(FT)	(%)	(FT)	(FT)	(FT)	(%)	(FT)	(FT)	(%)
DRIVEWAY SUMMARY - SELA LANE																											
1			X	2+53.38	13.0' RT	16.9	17.0	5.0	5.0	304.6	73.40	73.90	74.41	1.00	-	2.0%	7.5		73.55	2.0%	5.0	73.65	4.5	16.7%			
2			X	2+75.71	13.0' LT	17.2	17.0	5.0	5.0	309.5	73.51	74.01	74.46	0.95	-	2.0%	7.5		73.66	2.0%	5.0	73.76	4.5	15.6%			
3			X	2+92.12	13.0' RT	16.5	17.0	5.0	5.0	297.7	73.59	74.09	74.79	1.20	-	12.5%	7.5		74.52	2.0%	5.0	74.62	4.5	3.6%			
4			X	3+50.67	13.0' LT	10.3	17.0	5.0	5.0	191.1	73.87	74.37	74.32	0.46	-	2.0%	7.5		74.02	2.0%	5.0	74.12	4.5	4.6%			
5			X	3+76.48	19.0' LT	19.0	17.0	5.0	5.0	339.7	74.05	74.55	74.59	0.54	-	33.3%		0.5	74.21	2.0%	6.0	74.33	10.5	2.4%			
6			X	1+24.61	39.0' LT	18.9	10.8	5.0	5.0	221.6	74.32	74.82	74.96	0.64	-	33.3%		0.5	74.49	2.0%	6.0	74.61	4.3	8.1%			
7			X	2+19.19	13.0' LT	17.5	17.0	5.0	5.0	314.5	73.70	74.20	74.50	0.80	-	2.0%	2.5		73.75	2.0%	5.0	73.85	9.5	6.9%			
8			X	2+45.00	13.0' LT	10.0	17.0	5.0	5.0	186.7	73.53	74.03	74.28	0.75	-	2.0%	2.5		73.58	2.0%	5.0	73.68	9.5	6.3%			
9			X	2+93.30	13.0' RT	22.4	17.0	5.0	5.0	398.3	74.02	74.52	74.58	0.56	-	2.0%	2.5		74.07	2.0%	5.0	74.17	9.5	4.4%			
10			X	3+28.60	13.0' RT	27.9	17.0	5.0	5.0	490.5	72.98	73.48	74.33	1.35	-	2.0%	2.5		73.03	2.0%	5.0	73.13	9.5	12.6%			
11			X	3+52.66	13.0' LT	17.1	17.0	5.0	5.0	307.8	72.84	73.34	74.05	1.22	-	2.0%	2.5		72.89	2.0%	5.0	72.99	9.5	11.2%			
12			X	3+60.19	13.0' LT	10.0	17.0	5.0	5.0	186.7	72.59	73.09	73.59	0.99	-	2.0%	2.5		72.64	2.0%	5.0	72.74	9.5	8.9%			
13			X	4+28.69	13.0' RT	16.7	17.0	5.0	5.0	300.8	72.32	72.82	74.08	1.76	-	12.5%	8.0		73.32	2.0%	5.0	73.42	4.0	16.5%			
14			X	4+39.31	13.0' LT	10.0	17.0	5.0	5.0	186.7	72.25	72.75	73.66	1.40	-	2.0%	2.5		72.30	2.0%	5.0	72.40	9.5	13.2%			
15			X	4+51.88	13.0' RT	10.0	17.0	5.0	5.0	186.7	72.17	72.67	73.87	1.69	-	12.5%	8.5		73.23	2.0%	5.0	73.33	3.5	15.2%			
16			X	5+14.45	13.0' RT	10.0	17.0	5.0	5.0	186.7	71.95	72.45	73.70	1.75	-	2.0%	2.5		72.00	2.0%	5.0	72.10	9.5	16.9%			
17			X	5+66.12	13.0' LT	17.5	17.0	5.0	5.0	314.7	72.04	72.54	72.50	0.46	-	2.0%	2.5		72.09	2.0%	5.0	72.19	9.5	3.3%			
18			X	6+11.43	13.0' LT	17.0	17.0	5.0	5.0	305.2	72.24	72.74	73.53	1.29	-	2.0%	2.5		72.29	2.0%	5.0	72.39	9.5	12.0%			
19			X	6+23.57	13.0' RT	16.6	17.0	5.0	5.0	299.5	72.28	72.78	73.94	1.66	-	12.5%	7.5		73.21	2.0%	5.0	73.31	4.5	13.8%			
20			X	6+35.39	13.0' LT	10.2	17.0	5.0	5.0	190.0	72.31	72.81	73.48	1.17	-	2.0%	2.5		72.36	2.0%	5.0	72.46	9.5	10.8%			
21			X	6+89.16	13.0' RT	16.9	17.0	5.0	5.0	304.2	72.47	72.97	73.83	1.35	-	12.5%	7.5		73.41	2.0%	5.0	73.51	4.5	7.0%			
22			X	7+08.92	13.0' LT	12.1	17.0	5.0	5.0	222.6	72.53	73.03	73.60	1.07	-	8.0%	8.5		73.21	2.0%	5.0	73.31	3.5	8.3%			
23			X	7+11.89	13.0' RT	10.0	17.0	5.0	5.0	186.7	72.54	73.04	73.80	1.26	-	12.5%	7.5		73.48	2.0%	5.0	73.58	4.5	4.9%			
24			X	7+65.95	13.0' LT	10.0	17.0	5.0	5.0	186.7	72.70	73.20	73.90	1.20	-	9.0%	8.5		73.47	2.0%	5.0	73.57	3.5	9.5%			
25			X	8+48.92	13.0' RT	10.0	17.0	5.0	5.0	186.7	72.73	73.23	73.84	1.10	-	33.3%		0.5	72.90	2.0%	6.0	73.02	10.5	7.8%			
26			X	8+69.73	13.0' LT	17.4	17.0	5.0	5.0	313.2	72.70	73.20	73.73	1.03	-	8.0%	8.5		73.38	2.0%	5.0	73.48	3.5	7.1%			
27			X	8+80.27	13.0' LT	17.5	17.0	5.0	5.0	314.2	72.65	73.15	73.36	0.71	-	2.0%	6.5		72.78	2.0%	5.0	72.88	5.5	8.7%			
28			X	8+95.05	13.0' RT	10.5	17.0	5.0	5.0	194.5	72.58	73.08	73.62	1.04	-	8.0%	8.5		73.26	2.0%	5.0	73.36	3.5	7.5%			
29			X	9+48.74	13.0' RT	16.9	17.0	5.0	5.0	304.0	72.31	72.81	73.52	1.20	-	9.0%	7.5		72.99	2.0%	5.0	73.09	4.5	9.5%			
30			X	10+00.37	13.0' LT	17.2	17.0	5.0	5.0	309.0	72.06	72.56	73.18	1.12	-	8.0%	8.5		72.74	2.0%	5.0	72.84	3.5	9.8%			
31			X	10+31.28	13.0' LT	15.8	17.0	5.0	5.0	285.6	71.91	72.41	72.84	0.93	-	7.0%	8.5		72.50	2.0%	5.0	72.60	3.5	6.7%			
32			X	11+30.17	13.0' LT	16.9	17.0	5.0	5.0	303.8	71.42	71.92	72.59	1.17	-	2.0%	5.5		71.53	2.0%	5.0	71.63	6.5	14.7%			
33			X	11+87.76	13.0' LT	16.3	17.0	5.0	5.0	294.1	71.14	71.64	72.80	1.66	-	12.5%	5.5		71.83	2.0%	5.0	71.93	6.5	13.4%			
34			X	11+89.05	13.0' RT	21.0	17.0	5.0	5.0	374.5	71.13	71.63	73.02	1.89	-	8.0%	2.5		71.33	2.0%	5.0	71.43	9.5	16.7%			

NOTES:

1. REFER TO CITY OF HOUSTON DRIVEWAY DETAIL STD DWG NO: 02754-01B AND 02754-03.
2. REFER TO DRIVEWAY TABLE FOR DETAILS ON D1, D2, D3, P1, P2, S2, S3 AND S4.



TYPICAL CONCRETE DRIVEWAY DETAIL W/SIDEWALK
N.T.S.



TYPICAL CONCRETE DRIVEWAY SECTION W/SIDEWALK
(SECTION A-A)
N.T.S.

ISANI
civil \ design \ engineers
10448 Westoffice Drive
Houston, Texas 77042
P 713 747 2399
F 713 748 3748
TBPE Firm Reg. #4575

SURVEYED BY: Kuo&Associates
FB NO. P-6382

INTERIM REVIEW ONLY
DOCUMENT INCOMPLETE;
NOT INTENDED FOR PERMIT, BIDDING OR CONSTRUCTION
ENGINEER: V. N. MURTHY MADE, P.E.
P.E. Reg No: 134936
DATE: JULY 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA
PAVING AND DRAINAGE
IMPROVEMENTS

DRIVEWAY SUMMARY TABLE
SHEET 1 of 9

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
N.T.S.	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 178 OF 369	

FILE:P:\ACTIVE\18PV97 - 2024 Update\Ph II\Working\Transportation\Sheets\Driveway Summary Table\97_Driveway Summary Table.dgn
DATE:8/7/2026

DRIVEWAY NO.	DRWY TYPE			STA	OFFSET	DRIVEWAY WIDTH	DRIVEWAY LENGTH	LEFT / RIGHT CURB RETURN RADIUS		DRIVEWAY AREA	ELEVATION AT GUTTER	ELEVATION AT CURB/CL	ELEVATION AT ROW	DELTA ELEVATION	OVERALL SLOPE	SIDEWALK									CONSTRUCTION EASEMENT		
	DECORATIVE	COMMERCIAL	RESIDENTIAL					LEFT	RIGHT							SLOPE S1	DISTANCE D1	OPT1 or OPT2	ELEVATION P1	SLOPE S2	DISTANCE D2	ELEVATION P2	DISTANCE D3	SLOPE S3	DISTANCE (ROW TO EASE.)	ELEVATION AT EASEMENT	SLOPE S4
						(FT)	(FT)	(FT)	(FT)	(SF)	(FT)	(FT)	(FT)	(FT)	(%)	(%)	(FT)	(FT)	(FT)	(%)	(FT)	(FT)	(FT)	(%)	(FT)	(FT)	(%)
DRIVEWAY SUMMARY - SELA LANE																											
35			X	12+36.55	13.0' RT	16.9	18.7	5.0	5.0	333.6	70.93	71.43	73.23	2.29	-	12.5%	2.5		71.25	2.0%	5.0	71.35	11.2	16.8%			
36			X	12+71.24	13.0' LT	17.4	16.8	5.0	5.0	308.9	70.73	71.23	72.43	1.71	-	2.0%	2.5		70.78	2.0%	5.0	70.88	9.3	16.8%			
37			X	12+97.02	13.0' LT	17.5	16.8	5.0	5.0	311.0	70.60	71.10	72.08	1.48	-	2.0%	2.5		70.65	2.0%	5.0	70.75	9.3	14.3%			
38			X	13+95.67	13.0' LT	10.3	16.8	5.0	5.0	189.8	70.79	71.29	72.06	1.27	-	2.0%	2.5		70.84	2.0%	5.0	70.94	9.3	12.1%			
39			X	14+70.30	13.0' RT	16.8	17.0	5.0	5.0	302.5	71.04	71.54	72.44	1.40	-	2.0%	2.5		71.09	2.0%	5.0	71.19	9.5	13.2%			
40			X	15+31.45	13.0' RT	17.2	17.0	5.0	5.0	308.4	71.24	71.74	72.85	1.61	-	2.0%	2.5		71.29	2.0%	5.0	71.39	9.5	15.4%			
41			X	15+82.74	13.0' LT	17.4	17.0	5.0	5.0	311.7	71.41	71.91	72.28	0.87	-	2.0%	2.5		71.46	2.0%	5.0	71.56	9.5	7.6%			
42			X	16+00.32	13.0' RT	17.3	17.0	5.0	5.0	310.4	71.47	71.97	72.98	1.52	-	2.0%	2.5		71.52	2.0%	5.0	71.62	9.5	14.4%			
43			X	16+46.89	13.0' LT	17.3	17.0	5.0	5.0	310.6	71.62	72.12	72.60	0.98	-	33.3%		0.5	71.79	2.0%	6.0	71.91	10.5	6.6%			
44			X	16+47.75	13.0' RT	9.0	17.0	5.0	5.0	170.0	71.62	72.12	72.68	1.06	-	5.0%	9.0		72.07	2.0%	5.0	72.17	3.0	16.9%			
45			X	17+09.81	13.0' RT	10.0	17.0	5.0	5.0	186.7	71.44	71.94	72.85	1.42	-	2.0%	2.5		71.49	2.0%	5.0	71.59	9.5	13.3%			
46			X	17+19.59	13.0' LT	13.7	17.0	5.0	5.0	250.0	71.40	71.90	72.63	1.22	-	2.0%	2.5		71.45	2.0%	5.0	71.55	9.5	11.3%			
47			X	17+72.71	13.0' LT	18.1	17.0	5.0	5.0	324.0	71.22	71.72	73.05	1.83	-	12.5%	2.5		71.54	2.0%	5.0	71.64	9.5	14.9%			
48			X	17+78.57	13.0' RT	17.1	17.0	5.0	5.0	306.6	70.85	71.35	73.23	2.38	-	33.3%	8.5	1.5	71.35	2.0%	5.0	71.45	10.5	16.9%			
49			X	18+01.88	13.0' RT	17.2	17.0	5.0	5.0	308.4	71.12	71.62	72.80	1.68	-	2.0%	2.5		71.17	2.0%	5.0	71.27	9.5	16.1%			
50			X	18+75.88	13.0' RT	16.1	17.0	5.0	5.0	289.9	71.22	71.72	73.25	2.03	-	33.3%		0.5	71.39	2.0%	6.0	71.51	10.5	16.6%			
51			X	18+92.08	13.0' LT	17.3	17.0	5.0	5.0	311.1	71.28	71.78	72.86	1.58	-	2.0%	2.5		71.33	2.0%	5.0	71.43	9.5	15.0%			
52			X	19+34.75	13.0' RT	16.7	17.0	5.0	5.0	300.6	71.43	71.93	73.45	2.02	-	12.5%	2.5		71.75	2.0%	5.0	71.85	9.5	16.9%			
53			X	19+47.67	13.0' LT	17.2	17.0	5.0	5.0	309.9	71.48	71.98	73.07	1.59	-	2.0%	2.5		71.53	2.0%	5.0	71.63	9.5	15.1%			
54			X	19+66.04	13.0' RT	16.7	17.0	5.0	5.0	300.8	71.55	72.05	73.43	1.88	-	12.5%	2.5		71.86	2.0%	5.0	71.96	9.5	15.5%			
55			X	19+76.84	13.0' LT	17.5	17.0	5.0	5.0	314.3	71.58	72.08	73.17	1.59	-	2.0%	2.5		71.63	2.0%	5.0	71.73	9.5	15.1%			
56			X	20+64.00	13.0' LT	10.6	17.0	5.0	5.0	196.1	71.90	72.40	72.91	1.01	-	33.3%		0.5	72.07	2.0%	6.0	72.19	10.5	6.9%			
57			X	21+14.10	40.0' LT	17.3	11.0	5.0	5.0	207.0	71.98	72.48	72.81	0.83	-	12.5%	2.5		72.29	2.0%	5.0	72.39	3.5	12.0%			
58			X	4+27.48	34.0' RT	11.9	11.0	5.0	5.0	147.6	72.07	72.57	72.18	0.12	-	2.0%	2.5		72.12	2.0%	5.0	72.22	3.5	-0.9%			
59			X	3+79.50	25.0' RT	11.6	11.0	5.0	5.0	144.1	71.61	72.11	72.43	0.82	-	12.5%	2.5		71.92	2.0%	5.0	72.02	3.5	11.6%			
60			X	3+46.80	13.0' RT	16.9	17.0	5.0	5.0	304.4	71.08	71.58	72.87	1.79	-	12.5%	2.5		71.39	2.0%	5.0	71.49	9.5	14.6%			
61			X	2+92.98	13.0' LT	17.5	17.0	5.0	5.0	313.9	71.09	71.59	73.32	2.23	-	33.3%		1.5	71.58	2.0%	5.0	71.68	10.5	15.6%			
62			X	2+42.60	13.0' RT	10.0	17.0	5.0	5.0	186.7	71.05	71.55	71.99	0.94	-	2.0%	2.5		71.10	2.0%	5.0	71.20	9.5	8.3%			
63			X	1+81.30	13.0' RT	13.9	17.0	5.0	5.0	252.8	70.67	71.17	71.69	1.02	-	2.0%	2.5		70.72	2.0%	5.0	70.82	9.5	9.2%			
DRIVEWAY SUMMARY - CORONA LANE																											
64			X	5+01.72	13.0' RT	15.8	17.0	5.0	5.0	285.7	73.59	74.09	74.36	0.77	-	33.3%		0.5	73.75	2.0%	6.0	73.87	10.5	4.6%			
64A			X	3+50.20	13.0' RT	103.9	17.0	-	10.0	1833.0	73.36	73.86	74.60	1.24	-	12.5%	8.0		74.36	0.0%	0.0	74.36	9.0	2.7%			
65			X	5+79.88	13.0' RT	17.2	17.0	5.0	5.0	308.6	73.66	74.16	74.62	0.96	-	3.5%	8.5		73.96	2.0%	5.0	74.06	3.5	16.0%			
66			X	5+80.55	13.0' LT	16.9	17.0	5.0	5.0	304.6	73.67	74.17	74.53	0.86	-	2.0%	8.5		73.84	2.0%	5.0	73.94	3.5	17.0%			
67			X	6+09.76	13.0' RT	13.3	17.0	5.0	5.0	242.0	73.53	74.03	74.61	1.08	-	8.0%	8.5		74.21	2.0%	5.0	74.31	3.5	8.6%			
68			X	6+40.22	13.0' LT	16.9	17.0	5.0	5.0	303.2	73.38	73.88	74.35	0.96	-	7.0%	8.5		73.98	2.0%	5.0	74.08	3.5	7.7%			
69			X	6+67.10	13.0' LT	10.3	17.0	5.0	5.0	191.9	73.26	73.76	74.18	0.92	-	3.0%	8.5		73.51	2.0%	5.0	73.61	3.5	16.1%			
70			X	7+04.91	13.0' RT	17.4	17.0	5.0	5.0	312.9	73.08	73.58	73.94	0.86	-	2.0%	8.5		73.25	2.0%	5.0	73.35	3.5	16.9%			
71			X	7+69.68	13.0' LT	17.1	17.0	5.0	5.0	307.6	72.77	73.27	73.75	0.98	-	7.0%	8.5		73.37	2.0%	5.0	73.47	3.5	8.2%			
72			X	7+74.64	13.0' RT	17.4	17.0	5.0	5.0	313.1	72.75	73.25	73.55	0.80	-	2.0%	8.5		72.92	2.0%	5.0	73.02	3.5	15.2%			
73			X	7+97.63	13.0' LT	10.2	17.0	5.0	5.0	189.4	72.64	73.14	73.48	0.84	-	2.0%	8.5		72.81	2.0%	5.0	72.91	3.5	16.2%			
74			X	8+40.59	13.0' LT	16.8	17.0	5.0	5.0	302.3	72.44	72.94	73.81	1.37	-	12.5%	8.5		73.50	2.0%	5.0	73.60	3.5	5.9%			
75			X	8+62.14	13.0' LT	10.0	17.0	5.0	5.0	186.7	72.34	72.84	73.71	1.37	-	12.5%	8.5		73.40	2.0%	5.0	73.50	3.5	6.0%			
76			X	8+97.18	13.0' RT	17.3	17.0	5.0	5.0	310.3	72.17	72.67	73.65	1.48	-	2.0%	2.5		72.22	2.0%	5.0	72.32	9.5	14.0%			
77			X	9+27.41	13.0' RT	10.0	17.0	5.0	5.0	186.7	72.09	72.59	73.79	1.70	-	2.0%	2.5		72.14	2.0%	5.0	72.24	9.5	16.3%			
78			X	9+30.12	13.0' LT	10.0	17.0	5.0	5.0	186.7	72.11	72.61	73.54	1.43	-	12.5%	8.5		73.17	2.0%	5.0	73.27	3.5	7.5%			
79			X	9+96.53	13.0' RT	10.2	17.0	5.0	5.0	190.0	72.23	72.73	73.61	1.38	-	2.0%	2.5		72.28	2.0%	5.0	72.38	9.5	12.9%			
80			X	10+35.85	13.0' LT	17.1	17.0	5.0	5.0	306.8	72.36	72.86	73.70	1.34	-	2.0%	2.5		72.41	2.0%	5.0	72.51	9.5	12.6%			
81			X	10+57.64	13.0' RT	10.1	17.0	5.0	5.0	188.7	72.43	72.93	73.65	1.22	-	2.0%	2.5		72.48	2.0%	5.0	72.58	9.5	11.3%			
82			X	10+95.03	13.0' LT	16.9	17.0	5.0	5.0	304.6	72.54	73.04	73.68	1.14	-	2.0%	2.5		72.59	2.0%	5.0	72.69	9.5	10.4%			
83			X	11+20.51	13.0' LT	10.1	17.0	5.0	5.0	187.8	72.62	73.12	73.70	1.08	-	2.0%	2.5		72.67	2.0%	5.0	72.77	9.5	9.8%			
84			X	11+65.59	13.0' RT	17.4	17.0	5.0	5.0	312.6	72.76	73.26	73.93	1.17	-	8.0%	7.5		73.36	2.0%	5.0	73.46	4.5	10.5%			
85			X	12+27.60	13.0' RT	17.4	17.0	5.0	5.0	312.7	72.96	73.46	74.13	1.17	-	12.5%	7.5		73.89	2.0%	5.0	73.99	4.5	2.9%			
86			X	12+30.20	13.0' LT	17.0	17.0	5.0	5.0	304.9	72.96	73.46	73.36	0.40	-	2.0%	2.5		73.01	2.0%	5.0	73.11	9.5	2.6%			
87			X	1+29.06	36.0' LT	19.5	11.0	5.0	5.0	231.4	71.95	72.45	73.05	1.10	-	33.3%		0.5	72.11	2.0%	5.0	72.21	5.5	15.1%			
88			X	1+79.22	21.0' RT	22.1	11.0	5.0	5.0	259.9	71.49	71.99	72.27	0.78	-	12.5%	2.5		71.80	2.0%	5.0	71.90	3.5	10.4%			
89			X	2+96.57	13.0' LT	10.0	17.0	5.0	5.0	186.7	71.03	71.53	72.20	1.17	-	33.3%		0.5	71.20	2.0%	6.0	71.32	10.5	8.4%			
90			X	3+69.35	13.0' LT	10.0	17.0	5.0	5.0	186.8	71.23	71.73	72.74	1.51	-	2.0%	2.5		71.28	2.0%	5.0	71.38	9.5	14.3%			
91			X	3+74.87	13.0' RT	17.4	17.0	5.0	5.0	311.8	71.27	71.77	72.64	1.37	-	2.0%	2.5		71.32	2.0%	5.0	71.42	9.5	12.9%			
92			X	4+24.00	13.0' LT	10.0	17.0	5.0	5.0	186.7	71.42	71.92	72.68	1.27	-	2.0%	2.5		71.47	2.0%	5.0	71.57	9.5	11.8%			

NOTES:

1. REFER TO CITY OF HOUSTON DRIVEWAY DETAIL STD DWG NO: 02754-01B AND 02754-03.
2. REFER TO DRIVEWAY TABLE FOR DETAILS ON D1, D2, D3, P1, P2, S2, S3 AND S4.

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ENGINEER: V. N. MURTHY MADE, P.E.
P.E. Reg No: 134936
DATE: JULY 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA
PAVING AND DRAINAGE
IMPROVEMENTS

DRIVEWAY SUMMARY TABLE
SHEET 2 of 9

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
N.T.S.	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 179 OF 369	

FILE:P:\ACTIVE\18PV97 - 2024 Update\Ph II\Working\Transportation\Sheets\Driveway Summary Table\97_Driveway Summary Table.dgn
DATE:8/7/2026

DRIVEWAY NO.	DRWY TYPE			STA	OFFSET	DRIVEWAY WIDTH	DRIVEWAY LENGTH	LEFT / RIGHT CURB RETURN RADIUS		DRIVEWAY AREA	ELEVATION AT GUTTER	ELEVATION AT CURB/ CL	ELEVATION AT ROW	DELTA ELEVATION	OVERALL SLOPE	SIDEWALK									CONSTRUCTION EASEMENT		
	DECORATIVE	COMMERCIAL	RESIDENTIAL					LEFT	RIGHT							SLOPE	DISTANCE	OPT1 or OPT2	ELEVATION	SLOPE	DISTANCE	ELEVATION	DISTANCE	SLOPE	DISTANCE (ROW TO EASE.)	ELEVATION AT EASEMENT	SLOPE
																S1	D1		P1	S2	D2	P2	D3	S3			S4
						(FT)	(FT)	(FT)	(FT)	(SF)	(FT)	(FT)	(FT)	(FT)	(%)	(%)	(FT)	(FT)	(FT)	(%)	(FT)	(FT)	(FT)	(%)	(FT)	(FT)	(%)
DRIVEWAY SUMMARY - CORONA LANE																											
93			X	4+35.50	13.0' RT	19.0	17.0	5.0	5.0	339.6	71.45	71.95	72.80	1.35	-	2.0%	2.5		71.50	2.0%	5.0	71.60	9.5	12.7%			
94			X	4+80.90	13.0' LT	10.0	17.0	5.0	5.0	186.7	71.59	72.09	72.84	1.26	-	2.0%	2.5		71.64	2.0%	5.0	71.74	9.5	11.6%			
95			X	4+87.41	13.0' LT	10.0	17.0	5.0	5.0	186.7	71.61	72.11	72.71	1.10	-	2.0%	2.5		71.66	2.0%	5.0	71.76	9.5	10.0%			
96			X	5+48.74	13.0' RT	10.0	17.0	5.0	5.0	186.7	71.79	72.29	72.66	0.87	-	2.0%	2.5		71.84	2.0%	5.0	71.94	9.5	7.5%			
97			X	5+50.23	13.0' RT	11.2	17.0	5.0	5.0	207.4	71.80	72.30	72.99	1.20	-	2.0%	2.5		71.85	2.0%	5.0	71.95	9.5	11.0%			
98			X	6+13.56	13.0' LT	10.0	17.0	5.0	5.0	186.7	71.89	72.39	73.07	1.18	-	2.0%	2.5		71.94	2.0%	5.0	72.04	9.5	10.8%			
99			X	6+21.03	13.0' RT	16.8	17.0	5.0	5.0	301.9	70.87	71.37	72.80	1.93	-	12.5%	2.5		71.18	2.0%	5.0	71.28	9.5	15.9%			
100			X	6+64.10	13.0' LT	17.7	17.0	5.0	5.0	318.1	71.75	72.25	72.79	1.04	-	2.0%	2.5		71.80	2.0%	5.0	71.90	9.5	9.4%			
101			X	6+80.34	13.0' RT	18.4	17.0	5.0	5.0	329.4	71.70	72.20	72.94	1.24	-	2.0%	2.5		71.75	2.0%	5.0	71.85	9.5	11.5%			
102			X	7+23.91	13.0' LT	18.0	17.0	5.0	5.0	322.3	71.57	72.07	72.54	0.97	-	33.3%		0.5	71.74	2.0%	6.0	71.86	10.5	6.5%			
103			X	7+40.58	13.0' RT	17.5	17.0	5.0	5.0	313.4	71.52	72.02	72.95	1.43	-	2.0%	2.5		71.57	2.0%	5.0	71.67	9.5	13.5%			
104			X	7+96.81	13.0' LT	10.0	17.0	5.0	5.0	186.7	71.35	71.85	72.42	1.07	-	33.3%		0.5	71.52	2.0%	6.0	71.64	10.5	7.4%			
105			X	8+02.02	13.0' RT	17.4	17.0	5.0	5.0	311.9	71.34	71.84	72.53	1.19	-	2.0%	2.5		71.39	2.0%	5.0	71.49	9.5	11.0%			
106			X	8+49.88	13.0' LT	17.2	17.0	5.0	5.0	308.8	71.20	71.70	72.45	1.26	-	2.0%	2.5		71.25	2.0%	5.0	71.35	9.5	11.7%			
107			X	8+57.71	13.0' RT	10.0	17.0	5.0	5.0	186.7	71.17	71.67	72.35	1.18	-	33.3%		0.5	71.34	2.0%	6.0	71.46	10.5	8.5%			
108			X	9+13.75	13.0' RT	10.0	17.0	5.0	5.0	186.7	71.01	71.51	72.26	1.25	-	2.0%	2.5		71.06	2.0%	5.0	71.16	9.5	11.5%			
109			X	9+74.53	13.0' RT	10.0	17.0	5.0	5.0	186.7	70.83	71.33	72.79	1.96	-	12.5%	2.5		71.14	2.0%	5.0	71.24	9.5	16.3%			
110			X	10+73.09	13.0' RT	18.7	17.0	5.0	5.0	334.3	70.54	71.04	72.48	1.95	-	12.5%	2.5		70.85	2.0%	5.0	70.95	9.5	16.1%			
110A			X	10+86.08	13.0' LT	18.0	17.0	5.0	5.0	323.0	71.28	71.78	72.62	1.34		2.0%	2.5		71.33	2.0%	5.0	71.43	9.5	12.6%			
111			X	11+35.41	13.0' RT	17.2	17.0	5.0	5.0	308.5	70.75	71.25	72.57	1.83	-	5.0%	2.5		70.87	2.0%	5.0	70.97	9.5	16.8%			
112		X		11+85.19	13.0' LT	21.6	17.0	10.0	10.0	383.8	71.05	71.55	72.62	1.57	-	2.0%	2.5		71.10	2.0%	5.0	71.20	9.5	15.0%			
113			X	11+95.91	13.0' RT	16.9	17.0	5.0	5.0	303.5	71.11	71.61	72.61	1.49	-	2.0%	2.5		71.16	2.0%	5.0	71.26	9.5	14.1%			
114			X	12+55.17	13.0' RT	17.6	17.0	5.0	5.0	316.3	71.47	71.97	72.63	1.15	-	2.0%	2.5		71.52	2.0%	5.0	71.62	9.5	10.6%			
DRIVEWAY SUMMARY - SEASHORE DRIVE																											
115		X		2+28.07	13.0' RT	74.1	17.0	10.0	10.0	1326.1	46.79	47.29	48.65	1.86	-	12.5%	2.5		47.10	2.0%	5.0	47.20	9.5	15.2%			
116			X	3+98.91	13.0' RT	15.8	17.0	5.0	5.0	286.0	73.30	73.80	74.04	0.74	-	2.0%	9.0		73.48	2.0%	5.0	73.58	3.0	15.2%			
117			X	4+36.22	13.0' LT	10.0	17.0	5.0	5.0	186.7	73.18	73.68	74.17	0.99	-	2.0%	2.5		73.23	2.0%	5.0	73.33	9.5	8.9%			
118			X	4+77.97	13.0' RT	17.4	17.0	5.0	5.0	313.1	73.04	73.54	73.76	0.72	-	2.0%	9.0		73.22	2.0%	5.0	73.32	3.0	14.6%			
119			X	5+02.54	13.0' RT	10.3	17.0	5.0	5.0	191.6	72.96	73.46	73.89	0.93	-	7.0%	9.0		73.59	2.0%	5.0	73.69	3.0	6.6%			
120			X	5+45.19	13.0' LT	16.8	17.0	5.0	5.0	301.5	72.82	73.32	73.90	1.07	-	2.0%	2.5		72.87	2.0%	5.0	72.97	9.5	9.7%			
121			X	5+68.79	13.0' LT	10.0	17.0	5.0	5.0	186.7	72.76	73.26	73.92	1.16	-	2.0%	2.5		72.81	2.0%	5.0	72.91	9.5	10.6%			
122			X	5+74.81	13.0' RT	10.0	17.0	5.0	5.0	186.7	72.73	73.23	73.67	0.95	-	7.0%	9.0		73.36	2.0%	5.0	73.46	3.0	7.2%			
123			X	6+31.10	13.0' LT	10.3	17.0	5.0	5.0	191.1	72.75	73.25	73.52	0.77	-	2.0%	9.0		72.93	2.0%	5.0	73.03	3.0	16.5%			
124			X	6+32.24	13.0' RT	10.0	17.0	5.0	5.0	186.7	72.75	73.25	73.98	1.23	-	2.0%	2.5		72.80	2.0%	5.0	72.90	9.5	11.4%			
125			X	6+95.87	13.0' RT	10.0	17.0	5.0	5.0	186.7	72.96	73.46	74.13	1.17	-	9.0%	8.5		73.72	2.0%	5.0	73.82	3.5	8.8%			
126			X	7+39.78	13.0' LT	17.6	17.0	5.0	5.0	316.3	73.10	73.60	73.90	0.80	-	2.5%	9.0		73.33	2.0%	5.0	73.43	3.0	15.9%			
127			X	7+70.25	13.0' LT	10.0	17.0	5.0	5.0	187.4	73.20	73.70	73.88	0.68	-	2.0%	9.0		73.38	2.0%	5.0	73.48	3.0	13.3%			
128			X	7+98.54	13.0' RT	17.1	17.0	5.0	5.0	307.6	73.25	73.75	74.44	1.19	-	6.0%	8.5		73.76	2.0%	5.0	73.86	3.5	16.6%			
129			X	8+28.09	13.0' LT	10.2	17.0	5.0	5.0	190.4	73.14	73.64	74.00	0.86	-	3.0%	9.0		73.41	2.0%	5.0	73.51	3.0	16.3%			
130			X	8+69.98	13.0' RT	17.0	17.0	5.0	5.0	305.9	72.99	73.49	74.42	1.44	-	12.5%	8.5		74.05	2.0%	5.0	74.15	3.5	7.9%			
131			X	8+91.3106	13.0' RT	10.0	17.0	5.0	5.0	186.7	72.91	73.41	74.39	1.49	-	12.5%	8.5		73.97	2.0%	5.0	74.07	3.5	9.3%			
132			X	9+26.7602	13.0' LT	17.5	17.0	5.0	5.0	313.4	72.78	73.28	73.82	1.04	-	8.0%	9.0		73.50	2.0%	5.0	73.60	3.0	7.5%			
133			X	9+55.57	13.0' RT	10.0	17.0	5.0	5.0	186.7	72.67	73.17	73.87	1.20	-	2.0%	2.5		72.72	2.0%	5.0	72.82	9.5	11.1%			
134			X	9+92.47	13.0' LT	25.5	17.0	5.0	5.0	449.6	72.53	73.03	73.88	1.35	-	2.0%	2.5		72.58	2.0%	5.0	72.68	9.5	12.6%			
135			X	10+23.98	13.0' LT	10.0	17.0	5.0	5.0	186.7	72.42	72.92	73.85	1.43	-	2.0%	2.5		72.47	2.0%	5.0	72.57	9.5	13.5%			
136			X	10+58.6821	13.0' RT	17.2	17.0	5.0	5.0	309.0	72.29	72.79	73.41	1.12	-	2.0%	2.5		72.34	2.0%	5.0	72.44	9.5	10.2%			
137			X	10+84.47	13.0' RT	10.0	17.0	5.0	5.0	186.7	72.19	72.69	73.77	1.57	-	2.0%	2.5		72.24	2.0%	5.0	72.34	9.5	15.0%			
138			X	10+94.34	13.0' LT	15.0	17.0	5.0	5.0	271.6	72.14	72.64	73.78	1.64	-	2.0%	2.5		72.19	2.0%	5.0	72.29	9.5	15.6%			
139			X	1+14.03	2.60' LT	19.9	13.0	5.0	5.0	275.6	71.15	71.65	72.83	1.68	-	33.3%	2.5		71.98	2.0%	5.0	72.08	5.5	13.6%			
140			X	2+55.77	13.0' RT	17.1	17.0	5.0	5.0	308.1	71.01	71.51	72.96	1.94	-	12.5%	2.5		71.33	2.0%	5.0	71.43	9.5	16.1%			
141			X	2+89.92	13.0' RT	17.4	17.0	5.0	5.0	311.9	71.12	71.62	72.90	1.78	-	2.5%	2.5		71.18	2.0%	5.0	71.28	9.5	17.0%			
142			X	3+42.32	13.0' RT	17.4	17.0	5.0	5.0	312.8	71.31	71.81	73.33	2.02	-	12.5%	2.5		71.62	2.0%	5.0	71.72	9.5	17.0%			
143			X	3+86.38	13.0' LT	10.3	17.0	5.0	5.0	191.8	71.42	71.92	72.76	1.34	-	12.5%	8.5		72.49	2.0%	5.0	72.59	3.5	5.0%			
144			X	4+16.69	13.0' RT	18.7	17.0	5.0	5.0	334.3	71.52	72.02	73.12	1.60	-	2.0%	2.5		71.57	2.0%	5.0	71.67	9.5	15.3%			
145			X	4+50.75	13.0' LT	10.3	17.0	5.0	5.0	192.2	71.62	72.12	73.33	1.71	-	12.5%	8.5		72.69	2.0%	5.0	72.79	3.5	15.5%			
146			X	4+72.03	13.0' RT	10.0	17.0	5.0	5.0	186.7	71.69	72.19	73.08	1.39	-	2.0%	2.5		71.74	2.0%	5.0	71.84	9.5	13.1%			
147			X	5+23.25	13.0' LT	10.1	17.0	5.0	5.0	188.5	71.85	72.35	73.14	1.29	-	33.3%		0.5	72.02	2.0%	6.0	72.14	10.5	9.5%			
148			X	5+83.66	13.0' LT	10.3	17.0	5.0	5.0	191.0	72.04	72.54	73.44	1.40	-	12.5%	7.5		72.98	2.0%	5.0	73.08	4.5	8.2%			

NOTES:

1. REFER TO CITY OF HOUSTON DRIVEWAY DETAIL STD DWG NO: 02754-01B AND 02754-03.
2. REFER TO DRIVEWAY TABLE FOR DETAILS ON D1, D2, D3, P1, P2, S2, S3 AND S4.

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DATE: JULY 2026

CITY OF HOUSTON
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PAVING AND DRAINAGE
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DRIVEWAY SUMMARY TABLE
SHEET 3 of 9

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
N.T.S.	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 180 OF 369	

FILE:P:\ACTIVE\18PV97 - 2024 Update\Ph II\Working\Transportation\Sheets\Driveway Summary Table\97_Driveway Summary Table.dgn
DATE:8/7/2026

DRIVEWAY NO.	DRWY TYPE			STA	OFFSET	DRIVEWAY WIDTH	DRIVEWAY LENGTH	LEFT CURB RETURN RADIUS	RIGHT CURB RETURN RADIUS	DRIVEWAY AREA	ELEVATION AT GUTTER	ELEVATION AT CURB/CL	ELEVATION AT ROW	DELTA ELEVATION	OVERALL SLOPE	SIDEWALK									CONSTRUCTION EASEMENT		
	DECORATIVE	COMMERCIAL	RESIDENTIAL													SLOPE	DISTANCE	OPT1 or OPT2	ELEVATION	SLOPE	DISTANCE	ELEVATION	DISTANCE	SLOPE	DISTANCE (ROW TO EASE.)	ELEVATION AT EASEMENT	SLOPE
																S1	D1		P1	S2	D2	P2	D3	S3			S4
						(FT)	(FT)	(FT)	(FT)	(SF)	(FT)	(FT)	(FT)	(FT)	(%)	(%)	(FT)	(FT)	(FT)	(%)	(FT)	(FT)	(FT)	(%)	(FT)	(FT)	(%)
DRIVEWAY SUMMARY - SEASHORE DRIVE																											
149			X	5+88.71	13.0' RT	10.0	17.0	5.0	5.0	186.8	72.05	72.55	72.98	0.92	-	3.5%	9.0		72.37	2.0%	5.0	72.47	3.0	17.0%			
150			X	6+09.92	13.0' LT	16.5	17.0	5.0	5.0	297.5	72.12	72.62	73.55	1.43	-	12.5%	7.5		73.06	2.0%	5.0	73.16	4.5	8.7%			
151			X	6+66.14	13.0' RT	17.1	17.0	5.0	5.0	308.0	72.23	72.73	73.27	1.04	-	2.0%	2.5		72.28	2.0%	5.0	72.38	9.5	9.4%			
152			X	6+68.50	13.0' RT	10.0	17.0	5.0	5.0	186.7	72.30	72.80	73.17	0.87	-	2.0%	2.5		72.35	2.0%	5.0	72.45	9.5	7.6%			
153			X	7+10.74	13.0' LT	17.5	17.0	5.0	5.0	314.7	72.21	72.71	73.37	1.16	-	2.0%	6.5		72.34	2.0%	5.0	72.44	5.5	16.8%			
154			X	7+38.76	13.0' RT	14.2	17.0	5.0	5.0	257.6	72.12	72.62	72.91	0.79	-	3.5%	10.0		72.47	2.0%	5.0	72.57	2.0	17.0%			
155			X	7+41.11	13.0' LT	18.7	17.0	5.0	5.0	334.3	72.11	72.61	73.56	1.45	-	12.5%	6.5		72.92	2.0%	5.0	73.02	5.5	9.7%			
156			X	7+97.55	13.0' RT	10.0	17.0	5.0	5.0	186.7	71.93	72.43	72.87	0.94	-	7.0%	10.0		72.63	2.0%	5.0	72.73	2.0	7.0%			
157			X	8+03.77	13.0' LT	13.4	17.0	5.0	5.0	245.2	71.91	72.41	73.10	1.19	-	2.5%	6.5		72.07	2.0%	5.0	72.17	5.5	16.9%			
158			X	9+04.50	13.0' LT	10.0	17.0	5.0	5.0	186.7	71.58	72.08	72.96	1.39	-	12.5%	6.5		72.39	2.0%	5.0	72.49	5.5	8.6%			
159			X	9+05.69	13.0' RT	10.1	17.0	5.0	5.0	187.9	71.57	72.07	72.58	1.01	-	2.0%	2.5		71.62	2.0%	5.0	71.72	9.5	9.0%			
160			X	9+35.46	13.0' LT	17.1	17.0	5.0	5.0	307.2	71.48	71.98	72.77	1.30	-	12.5%	6.5		72.29	2.0%	5.0	72.39	5.5	7.0%			
161			X	9+45.64	13.0' RT	17.5	17.0	5.0	5.0	314.0	71.44	71.94	72.54	1.10	-	8.0%	9.5		72.20	2.0%	5.0	72.30	2.5	9.4%			
162			X	10+03.14	13.0' RT	17.0	17.0	5.0	5.0	304.9	71.25	71.75	72.27	1.01	-	2.0%	2.5		71.30	2.0%	5.0	71.40	9.5	9.1%			
163			X	10+34.78	13.0' LT	17.5	17.0	5.0	5.0	314.1	71.15	71.65	72.25	1.10	-	2.0%	6.5		71.28	2.0%	5.0	71.38	5.5	15.8%			
164			X	10+69.58	13.0' LT	16.9	17.0	5.0	5.0	304.4	70.86	71.36	72.25	1.38	-	12.5%	7.5		71.80	2.0%	5.0	71.90	4.5	7.7%			
165			X	11+00.16	13.0' RT	10.0	17.0	5.0	5.0	187.4	70.94	71.44	72.18	1.24	-	33.3%		0.5	71.10	2.0%	6.0	71.22	10.5	9.1%			
166			X	11+22.57	13.0' LT	10.1	17.0	5.0	5.0	188.5	70.86	71.36	72.46	1.60	-	12.5%	7.5		71.80	2.0%	5.0	71.90	4.5	12.5%			
167			X	11+34.79	13.0' RT	17.2	17.0	5.0	5.0	308.7	70.82	71.32	72.28	1.46	-	2.0%	2.5		70.87	2.0%	5.0	70.97	9.5	13.8%			
167A			X	12+32.23	13.0' RT	10.0	17.0	5.0	5.0	186.7	70.50	71.00	71.49	0.99		7.5%	11.5		71.36	2.0%	5.0	71.46	0.5	5.2%			
168			X	12+34.0134	13.0' LT	10.2	17.0	5.0	5.0	189.6	70.50	71.00	71.75	1.25	-	8.5%	10.4		71.38	2.0%	5.0	71.48	1.6	16.7%			
DRIVEWAY SUMMARY - POMPANO LANE																											
169			X	3+10.15	13.0' RT	22.3	17.0	5.0	5.0	395.5	72.90	73.40	74.50	1.60	-	2.0%	2.5		72.95	2.0%	5.0	73.05	9.5	15.2%			
170			X	2+81.63	13.0' LT	17.2	17.0	5.0	5.0	308.5	72.75	73.25	73.97	1.22	-	12.5%	7.5		73.69	2.0%	5.0	73.79	4.5	4.0%			
171			X	2+72.32	13.0' RT	16.3	17.0	5.0	5.0	294.0	72.70	73.20	73.92	1.21	-	2.0%	2.5		72.75	2.0%	5.0	72.85	9.5	11.2%			
172			X	2+58.66	13.0' LT	10.0	17.0	5.0	5.0	186.7	72.65	73.15	73.94	1.30	-	12.5%	7.5		73.58	2.0%	5.0	73.68	4.5	5.7%			
173			X	1+48.59	13.0' LT	15.9	11.4	5.0	5.0	199.2	72.82	73.32	73.48	0.66	-	2.0%	2.5		72.87	2.0%	5.0	72.97	3.9	12.9%			
174			X	1+10.45	13.0' LT	16.2	11.5	5.0	5.0	202.3	73.17	73.67	73.55	0.38	-	2.0%	2.5		73.22	2.0%	5.0	73.32	4.0	5.8%			
175			X	1+64.45	13.0' RT	21.3	11.3	5.0	5.0	258.7	72.68	73.18	73.55	0.87	-	12.0%	2.5		72.98	2.0%	5.0	73.08	3.8	12.3%			
176			X	1+92.63	13.0' RT	10.3	17.0	5.0	5.0	192.4	72.49	72.99	73.72	1.23	-	2.0%	2.5		72.54	2.0%	5.0	72.64	9.5	11.4%			
177			X	2+55.36	13.0' LT	10.0	17.0	5.0	5.0	187.4	72.72	73.22	73.66	0.94	-	2.0%	2.5		72.77	2.0%	5.0	72.87	9.5	8.3%			
178			X	2+64.07	13.0' RT	10.0	17.0	5.0	5.0	186.7	72.75	73.25	73.78	1.03	-	2.0%	2.5		72.80	2.0%	5.0	72.90	9.5	9.3%			
179			X	3+21.28	13.0' RT	10.0	17.0	5.0	5.0	186.7	72.97	73.47	73.75	0.78	-	2.0%	2.5		73.02	2.0%	5.0	73.12	9.5	6.6%			
180			X	3+67.25	13.0' LT	23.9	17.0	5.0	5.0	423.8	73.14	73.64	73.91	0.77	-	2.0%	2.5		73.19	2.0%	5.0	73.29	9.5	6.5%			
181			X	4+23.80	13.0' LT	17.3	17.0	5.0	5.0	311.2	73.24	73.74	73.85	0.61	-	2.0%	2.5		73.29	2.0%	5.0	73.39	9.5	4.8%			
182			X	4+27.92	13.0' RT	17.5	17.0	5.0	5.0	313.4	73.22	73.72	74.11	0.90	-	2.0%	6.5		73.35	2.0%	5.0	73.45	5.5	12.1%			
183			X	4+47.90	13.0' LT	10.0	17.0	5.0	5.0	186.7	73.12	73.62	73.82	0.70	-	2.0%	2.5		73.17	2.0%	5.0	73.27	9.5	5.8%			
184			X	4+60.43	13.0' RT	10.0	17.0	5.0	5.0	186.7	73.06	73.56	74.03	0.97	-	2.0%	6.5		73.19	2.0%	5.0	73.29	5.5	13.4%			
185			X	5+14.66	13.0' RT	10.0	17.0	5.0	5.0	186.7	72.79	73.29	74.22	1.43	-	12.5%	6.5		73.61	2.0%	5.0	73.71	5.5	9.4%			
186			X	5+18.00	13.0' LT	10.1	17.0	5.0	5.0	188.3	72.78	73.28	74.00	1.22	-	2.0%	2.5		72.83	2.0%	5.0	72.93	9.5	11.3%			
187			X	6+24.20	13.0' LT	17.3	17.0	5.0	5.0	310.6	72.26	72.76	73.90	1.64	-	2.0%	2.5		72.31	2.0%	5.0	72.41	9.5	15.7%			
188			X	6+24.77	13.0' RT	17.1	17.0	5.0	5.0	307.4	72.25	72.75	73.96	1.71	-	2.0%	2.5		72.30	2.0%	5.0	72.40	9.5	16.4%			
189			X	6+54.01	13.0' LT	27.9	17.0	5.0	5.0	491.7	72.11	72.61	73.82	1.71	-	2.0%	2.5		72.16	2.0%	5.0	72.26	9.5	16.4%			
190			X	6+83.44	13.0' RT	17.1	17.0	5.0	5.0	307.1	71.97	72.47	73.72	1.75	-	2.0%	2.5		72.02	2.0%	5.0	72.12	9.5	16.8%			
191			X	7+10.16	13.0' RT	10.0	17.0	5.0	5.0	186.7	71.84	72.34	73.44	1.60	-	2.0%	2.5		71.89	2.0%	5.0	71.99	9.5	15.3%			
192			X	7+19.92	13.0' LT	10.0	17.0	5.0	5.0	186.7	71.79	72.29	73.85	2.06	-	14.0%	2.5		72.14	2.0%	5.0	72.24	9.5	17.0%			
193			X	7+76.23	13.0' RT	10.1	17.0	5.0	5.0	187.6	71.87	72.37	73.35	1.48	-	2.0%	2.5		71.92	2.0%	5.0	72.02	9.5	14.0%			
194			X	8+18.88	13.0' LT	17.2	17.0	5.0	5.0	308.8	72.02	72.52	73.80	1.78	-	3.0%	2.5		72.09	2.0%	5.0	72.19	9.5	16.9%			
195			X	8+42.63	13.0' LT	10.0	17.0	5.0	5.0	187.0	72.10	72.60	73.99	1.89	-	7.0%	2.5		72.27	2.0%	5.0	72.37	9.5	17.0%			
196			X	8+78.72	13.0' RT	17.6	17.0	5.0	5.0	315.8	72.22	72.72	73.73	1.51	-	2.0%	2.5		72.27	2.0%	5.0	72.37	9.5	14.3%			
197			X	9+05.78	13.0' LT	10.2	17.0	5.0	5.0	189.3	72.31	72.81	73.94	1.63	-	12.5%	7.0		73.18	2.0%	5.0	73.28	5.0	13.0%			
198			X	9+49.71	13.0' RT	17.9	17.0	5.0	5.0	320.3	72.46	72.96	73.79	1.34	-	2.0%	2.5		72.51	2.0%	5.0	72.61	9.5	12.5%			
199			X	2+37.36	13.0' RT	10.0	17.0	5.0	5.0	186.9	71.37	71.87	73.06	1.69	-	12.5%	7.0		72.25	2.0%	5.0	72.35	5.0	14.3%			
200			X	2+80.27	13.0' LT	17.5	17.0	5.0	5.0	313.4	71.50	72.00	73.07	1.57	-	12.5%	8.0		72.50	2.0%	5.0	72.60	4.0	11.7%			
201			X	3+43.60	13.0' RT	10.0	17.0	5.0	5.0	186.7	71.69	72.19	73.15	1.45	-	12.5%	7.0		72.57	2.0%	5.0	72.67	5.0	9.5%			
202			X	3+47.79	13.0' LT	10.0	17.0	5.0	5.0	186.7	71.71	72.21	73.35	1.64	-	12.5%	8.0		72.71	2.0%	5.0	72.81	4.0	13.5%			
203			X	3+78.83	13.0' LT	17.4	17.0	5.0	5.0	312.3	71.80	72.30	73.14	1.34	-	12.5%	8.0		72.80	2.0%	5.0	72.90	4.0	6.0%			
204			X	4+17.073	13.0' RT	10.2	17.0	5.0	5.0	189.6	71.92	72.42	73.35	1.43	-	2.0%	2.5		71.97	2.0%	5.0	72.07	9.5	13.5%			

NOTES:

1. REFER TO CITY OF HOUSTON DRIVEWAY DETAIL STD DWG NO: 02754-01B AND 02754-03.
2. REFER TO DRIVEWAY TABLE FOR DETAILS ON D1, D2, D3, P1, P2, S2, S3 AND S4.

ISANI
civil : design : engineers
10448 Westoffice Drive
Houston, Texas 77042
P 713 747 2399
F 713 748 3748
TBPE Firm Reg. #4575

SURVEYED BY: Kuo&Associates
FB NO. P-6382

INTERIM REVIEW ONLY
DOCUMENT INCOMPLETE;
NOT INTENDED FOR PERMIT, BIDDING OR CONSTRUCTION
ENGINEER: V. N. MURTHY MADE, P.E.
P.E. Reg No: 134936
DATE: JULY 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA
PAVING AND DRAINAGE
IMPROVEMENTS

DRIVEWAY SUMMARY TABLE
SHEET 4 of 9

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
N.T.S.	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 181 OF 369	

FILE:P:\ACTIVE\18PV97 - 2024 Update\Ph II\Working\Transportation\Sheets\Driveway Summary Table\97_Driveway Summary Table.dgn
DATE:8/7/2026

DRIVEWAY NO.	DRWY TYPE			STA	OFFSET	DRIVEWAY WIDTH	DRIVEWAY LENGTH	LEFT CURB RETURN RADIUS	RIGHT CURB RETURN RADIUS	DRIVEWAY AREA	ELEVATION AT GUTTER	ELEVATION AT CURB/CL	ELEVATION AT ROW	DELTA ELEVATION	OVERALL SLOPE	SIDEWALK									CONSTRUCTION EASEMENT		
	DECORATIVE	COMMERCIAL	RESIDENTIAL													SLOPE	DISTANCE	OPT1 or OPT2	ELEVATION	SLOPE	DISTANCE	ELEVATION	DISTANCE	SLOPE	DISTANCE (ROW TO EASE.)	ELEVATION AT EASEMENT	SLOPE
																S1	D1		P1	S2	D2	P2	D3	S3			S4
						(FT)	(FT)	(FT)	(FT)	(SF)	(FT)	(FT)	(FT)	(FT)	(%)	(%)	(FT)	(FT)	(FT)	(%)	(FT)	(FT)	(FT)	(%)	(FT)	(FT)	(%)
DRIVEWAY SUMMARY - POMPANO LANE																											
205			X	4+74.77	13.0' LT	10.0	17.0	5.0	5.0	186.7	72.09	72.59	73.09	1.00	-	3.0%	8.0		72.33	2.0%	5.0	72.43	4.0	16.4%			
206			X	4+76.63	13.0' RT	10.0	17.0	5.0	5.0	186.7	72.10	72.60	73.21	1.11	-	2.0%	2.5		72.15	2.0%	5.0	72.25	9.5	10.1%			
207			X	5+09.28	13.0' LT	17.5	17.0	5.0	5.0	314.5	72.20	72.70	73.46	1.26	-	9.5%	8.0		72.96	2.0%	5.0	73.06	4.0	10.0%			
208			X	5+46.51	13.0' RT	10.0	17.0	5.0	5.0	186.7	72.31	72.81	73.38	1.07	-	2.0%	2.5		72.36	2.0%	5.0	72.46	9.5	9.7%			
209			X	5+74.23	13.0' LT	17.5	17.0	5.0	5.0	314.5	72.39	72.89	73.09	0.70	-	2.0%	8.0		72.55	2.0%	5.0	72.65	4.0	10.9%			
210			X	6+08.69	13.0' RT	10.8	17.0	5.0	5.0	200.9	72.50	73.00	73.26	0.76	-	2.0%	7.0		72.64	2.0%	5.0	72.74	5.0	10.4%			
211			X	6+28.30	13.0' LT	10.0	17.0	5.0	5.0	186.7	72.56	73.06	73.37	0.81	-	2.0%	8.0		72.72	2.0%	5.0	72.82	4.0	13.8%			
212			X	6+28.45	13.0' RT	10.0	17.0	5.0	5.0	186.7	72.56	73.06	73.45	0.89	-	2.0%	7.0		72.70	2.0%	5.0	72.80	5.0	13.1%			
213			X	6+99.45	13.0' LT	17.1	17.0	5.0	5.0	307.7	72.51	73.01	73.40	0.89	-	2.0%	8.0		72.67	2.0%	5.0	72.77	4.0	15.8%			
214			X	7+34.07	13.0' RT	10.3	17.0	5.0	5.0	192.5	72.40	72.90	73.35	0.95	-	2.0%	7.0		72.54	2.0%	5.0	72.64	5.0	14.2%			
215			X	7+68.31	13.0' RT	17.0	17.0	5.0	5.0	306.5	72.30	72.80	73.23	0.94	-	2.0%	7.0		72.44	2.0%	5.0	72.54	5.0	14.0%			
216			X	7+87.57	13.0' LT	15.8	17.0	5.0	5.0	285.6	72.21	72.71	72.92	0.71	-	2.0%	8.0		72.37	2.0%	5.0	72.47	4.0	11.3%			
217			X	8+22.34	13.0' LT	10.0	17.0	5.0	5.0	187.0	72.13	72.63	73.05	0.92	-	2.0%	8.0		72.29	2.0%	5.0	72.39	4.0	16.5%			
218			X	8+62.19	13.0' RT	16.3	17.0	5.0	5.0	294.2	72.00	72.50	73.04	1.03	-	2.0%	2.5		72.05	2.0%	5.0	72.15	9.5	9.3%			
219			X	8+86.19	13.0' RT	10.0	17.0	5.0	5.0	186.7	71.94	72.44	73.03	1.10	-	2.0%	2.5		71.99	2.0%	5.0	72.09	9.5	10.0%			
220			X	9+05.03	13.0' LT	16.5	17.0	5.0	5.0	297.3	71.88	72.38	72.92	1.04	-	3.5%	8.0		72.16	2.0%	5.0	72.26	4.0	16.6%			
221			X	9+56.42	13.0' RT	19.1	17.0	5.0	5.0	340.7	71.72	72.22	72.66	0.93	-	3.0%	8.5		71.98	2.0%	5.0	72.08	3.5	16.5%			
222			X	9+58.13	13.0' LT	15.3	17.0	5.0	5.0	276.5	71.72	72.22	72.86	1.14	-	4.5%	8.0		72.08	2.0%	5.0	72.18	4.0	16.9%			
223			X	10+53.70	13.0' LT	15.8	17.0	5.0	5.0	284.6	71.43	71.93	72.50	1.08	-	4.0%	8.0		71.75	2.0%	5.0	71.85	4.0	16.4%			
224			X	10+55.47	13.0' RT	22.6	17.0	5.0	5.0	400.9	71.42	71.92	72.76	1.34	-	12.5%	8.5		72.49	2.0%	5.0	72.59	3.5	5.1%			
225			X	10+85.22	13.0' LT	17.3	17.0	5.0	5.0	310.4	71.33	71.83	72.69	1.36	-	12.5%	8.0		72.33	2.0%	5.0	72.43	4.0	6.5%			
226			X	11+27.97	13.0' RT	10.4	17.0	5.0	5.0	193.7	71.20	71.70	72.40	1.19	-	2.0%	2.5		71.25	2.0%	5.0	71.35	9.5	11.0%			
227			X	11+47.47	13.0' RT	10.0	17.0	5.0	5.0	186.7	71.14	71.64	72.48	1.34	-	2.0%	2.5		71.19	2.0%	5.0	71.29	9.5	12.5%			
228			X	11+58.71	13.0' LT	16.9	17.0	5.0	5.0	304.7	71.11	71.61	72.50	1.39	-	12.5%	8.0		72.11	2.0%	5.0	72.21	4.0	7.3%			
DRIVEWAY SUMMARY - SHARPCREST LANE																											
229			X	1+58.29	13.0' LT	17.4	17.0	5.0	5.0	312.6	71.19	71.69	73.40	2.21	-	33.3%		1.5	71.69	2.0%	5.0	71.79	10.5	15.3%			
230			X	2+06.92	13.0' RT	17.0	17.0	5.0	5.0	304.9	71.04	71.54	73.34	2.30	-	33.3%		1.5	71.54	2.0%	5.0	71.64	10.5	16.2%			
231			X	3+87.91	13.0' RT	10.4	17.0	5.0	5.0	193.2	71.04	71.54	72.52	1.48	-	12.5%	8.5		72.10	2.0%	5.0	72.20	3.5	9.0%			
232			X	3+90.88	13.0' LT	12.4	17.0	5.0	5.0	227.4	71.05	47.98	72.98	1.93		12.5%	2.5		71.36	2.0%	5.0	71.46	9.5	16.0%			
233			X	4+93.42	13.0' RT	10.0	17.0	5.0	5.0	186.7	71.37	71.87	72.84	1.47	-	12.5%	7.5		72.30	2.0%	5.0	72.40	4.5	9.6%			
234			X	4+95.35	13.0' LT	10.0	17.0	5.0	5.0	186.7	71.37	71.87	73.07	1.70	-	2.0%	2.5		71.42	2.0%	5.0	71.52	9.5	16.3%			
235			X	5+60.18	13.0' RT	17.2	17.0	5.0	5.0	309.6	71.57	72.07	73.11	1.53	-	12.5%	7.5		72.51	2.0%	5.0	72.61	4.5	11.0%			
236			X	5+60.92	13.0' LT	16.7	17.0	5.0	5.0	300.0	71.57	72.07	73.57	2.00	-	33.3%		1.5	72.07	2.0%	5.0	72.17	10.5	13.3%			
237			X	5+93.03	13.0' LT	17.3	17.0	5.0	5.0	311.1	71.67	72.17	73.42	1.75	-	12.5%	8.5		72.74	2.0%	5.0	72.84	3.5	16.7%			
238			X	5+94.81	13.0' RT	17.3	17.0	5.0	5.0	310.9	71.68	72.18	73.27	1.59	-	12.5%	7.5		72.62	2.0%	5.0	72.72	4.5	12.3%			
239			X	6+57.40	13.0' RT	17.3	17.0	5.0	5.0	311.6	71.87	72.37	73.61	1.74	-	12.5%	7.5		72.81	2.0%	5.0	72.91	4.5	15.5%			
240			X	6+91.70	13.0' LT	10.4	17.0	5.0	5.0	193.4	71.98	72.48	73.56	1.58	-	12.5%	8.5		73.04	2.0%	5.0	73.14	3.5	12.1%			
241			X	7+11.77	13.0' RT	10.6	17.0	5.0	5.0	196.7	72.04	72.54	73.65	1.61	-	12.5%	8.5		73.10	2.0%	5.0	73.20	3.5	12.7%			
242			X	7+59.29	13.0' LT	10.1	17.0	5.0	5.0	188.2	72.18	72.68	73.68	1.50	-	12.5%	8.5		73.25	2.0%	5.0	73.35	3.5	9.6%			
243			X	7+60.86	13.0' RT	10.1	17.0	5.0	5.0	187.6	72.19	72.69	73.10	0.91	-	6.5%	9.5		72.81	2.0%	5.0	72.91	2.5	7.7%			
244			X	8+20.47	13.0' LT	16.9	17.0	5.0	5.0	303.4	72.37	72.87	73.60	1.23	-	9.0%	8.5		73.14	2.0%	5.0	73.24	3.5	10.5%			
245			X	8+21.37	13.0' RT	18.5	17.0	5.0	5.0	330.7	72.38	72.88	73.72	1.35	-	10.0%	9.5		73.33	2.0%	5.0	73.43	2.5	11.9%			
246			X	8+53.99	13.0' RT	16.6	17.0	5.0	5.0	299.4	72.48	72.98	73.55	1.08	-	8.0%	9.5		73.24	2.0%	5.0	73.34	2.5	8.7%			
247			X	8+88.82	13.0' LT	11.2	17.0	5.0	5.0	207.5	72.41	72.91	73.24	0.84	-	2.0%	8.5		72.58	2.0%	5.0	72.68	3.5	16.2%			
248			X	9+50.61	13.0' LT	10.0	17.0	5.0	5.0	186.7	72.22	72.72	73.14	0.92	-	3.0%	8.5		72.47	2.0%	5.0	72.57	3.5	16.2%			
249			X	9+53.02	13.0' RT	13.0	17.0	5.0	5.0	237.3	72.21	72.71	73.44	1.23	-	9.5%	9.5		73.11	2.0%	5.0	73.21	2.5	9.1%			
250			X	9+73.00	13.0' LT	10.0	17.0	5.0	5.0	186.7	72.15	72.65	73.14	0.99	-	4.0%	8.5		72.49	2.0%	5.0	72.59	3.5	15.7%			
251			X	9+82.96	13.0' RT	17.4	17.0	5.0	5.0	311.7	72.12	72.62	73.08	0.96	-	7.0%	9.5		72.78	2.0%	5.0	72.88	2.5	8.0%			
252			X	10+37.49	13.0' RT	10.0	17.0	5.0	5.0	186.7	71.95	72.45	72.79	0.84	-	6.4%	9.5		72.55	2.0%	5.0	72.65	2.5	5.4%			

NOTES:

1. REFER TO CITY OF HOUSTON DRIVEWAY DETAIL STD DWG NO: 02754-01B AND 02754-03.
2. REFER TO DRIVEWAY TABLE FOR DETAILS ON D1, D2, D3, P1, P2, S2, S3 AND S4.

ISANI
civil \ design \ engineers
10448 Westoffice Drive
Houston, Texas 77042
P 713 747 2399
F 713 748 3748
TBPE Firm Reg. #4575

SURVEYED BY: Kuo&Associates
FB NO. P-6382

INTERIM REVIEW ONLY
DOCUMENT INCOMPLETE;
NOT INTENDED FOR PERMIT, BIDDING OR CONSTRUCTION
ENGINEER: V. N. MURTHY MADE, P.E.
P.E. Reg No: 134936
DATE: JULY 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA
PAVING AND DRAINAGE
IMPROVEMENTS

DRIVEWAY SUMMARY TABLE
SHEET 5 of 9

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
N.T.S.	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 182 OF 369	

FILE:P:\ACTIVE\18PV97 - 2024 Update\Ph II\Working\Transportation\Sheets\Driveway Summary Table\97_Driveway Summary Table.dgn
DATE:8/7/2026

DRIVEWAY NO.	DRWY TYPE			STA	OFFSET	DRIVEWAY WIDTH	DRIVEWAY LENGTH	LEFT / RIGHT CURB RETURN RADIUS		DRIVEWAY AREA	ELEVATION AT GUTTER	ELEVATION AT CURB/ CL	ELEVATION AT ROW	DELTA ELEVATION	OVERALL SLOPE	SIDEWALK									CONSTRUCTION EASEMENT		
	DECORATIVE	COMMERCIAL	RESIDENTIAL					LEFT	RIGHT							SLOPE	DISTANCE	OPT1 or OPT2	ELEVATION	SLOPE	DISTANCE	ELEVATION	DISTANCE	SLOPE	DISTANCE (ROW TO EASE.)	ELEVATION AT EASEMENT	SLOPE
																S1	D1		P1	S2	D2	P2	D3	S3			S4
						(FT)	(FT)	(FT)	(FT)	(SF)	(FT)	(FT)	(FT)	(FT)	(%)	(%)	(FT)	(FT)	(FT)	(%)	(FT)	(FT)	(FT)	(%)	(FT)	(FT)	(%)
DRIVEWAY SUMMARY - SHARPCREST LANE																											
253			X	10+80.86	13.0' LT	16.9	17.0	5.0	5.0	304.8	71.81	72.31	73.11	1.30	-	2.0%	2.5		71.86	2.0%	5.0	71.96	9.5	12.1%			
254			X	11+17.78	13.0' RT	40.0	17.0	5.0	5.0	695.9	71.69	72.19	73.01	1.32	-	10.0%	9.5		72.64	2.0%	5.0	72.74	2.5	10.7%			
255			X	11+46.33	13.0' LT	17.5	17.0	5.0	5.0	314.3	71.61	72.11	72.81	1.21	-	2.0%	2.5		71.66	2.0%	5.0	71.76	9.5	11.1%			
256			X	11+68.14	13.0' LT	10.0	17.0	5.0	5.0	186.7	71.54	72.04	72.79	1.25	-	2.0%	2.5		71.59	2.0%	5.0	71.69	9.5	11.6%			
257			X	12+15.87	13.0' RT	10.0	17.0	5.0	5.0	186.7	71.39	71.89	72.61	1.22	-	9.4%	9.5		72.28	2.0%	5.0	72.38	2.5	9.3%			
258			X	12+50.28	13.0' LT	16.8	17.0	5.0	5.0	302.2	71.28	71.78	72.56	1.28	-	3.0%	6.0		71.46	2.0%	5.0	71.56	6.0	16.6%			
259			X	12+76.12	13.0' RT	10.4	17.0	5.0	5.0	194.1	71.20	71.70	72.38	1.18	-	9.0%	9.5		72.06	2.0%	5.0	72.16	2.5	8.9%			
260			X	13+12.47	13.0' RT	30.0	17.0	5.0	5.0	527.2	71.09	71.59	72.41	1.33	-	9.0%	9.5		71.94	2.0%	5.0	72.04	2.5	14.8%			
261			X	13+41.07	13.0' LT	16.9	17.0	5.0	5.0	303.9	71.00	71.50	72.42	1.43	-	2.0%	2.5		71.05	2.0%	5.0	71.15	9.5	13.4%			
262			X	13+72.99	13.0' RT	19.3	17.0	5.0	5.0	345.5	70.90	71.40	72.41	1.51	-	12.5%	9.5		72.09	2.0%	5.0	72.19	2.5	8.8%			
263			X	14+06.57	13.0' LT	10.2	17.0	5.0	5.0	189.9	70.79	71.29	72.00	1.20	-	9.0%	9.9		71.68	2.0%	5.0	71.78	2.1	10.0%			
DRIVEWAY SUMMARY - HENDON LANE																											
264			X	2+36.84	13.0' RT	17.3	17.0	5.0	5.0	310.8	71.98	72.48	73.47	1.50	-	2.0%	2.5		72.03	2.0%	5.0	72.13	9.5	14.2%			
265			X	2+70.95	13.0' RT	10.0	17.0	5.0	5.0	186.7	72.08	72.58	73.25	1.17	-	2.0%	2.5		72.13	2.0%	5.0	72.23	9.5	10.7%			
266			X	2+78.07	13.0' LT	10.7	17.0	5.0	5.0	199.3	72.11	72.61	73.23	1.12	-	2.0%	2.5		72.16	2.0%	5.0	72.26	9.5	10.2%			
267			X	2+95.94	13.0' RT	17.4	17.0	5.0	5.0	312.9	72.16	72.66	73.25	1.09	-	2.0%	2.5		72.21	2.0%	5.0	72.31	9.5	9.9%			
268			X	3+13.90	13.0' LT	17.4	17.0	5.0	5.0	311.9	72.14	72.64	73.29	1.15	-	2.0%	2.5		72.19	2.0%	5.0	72.29	9.5	10.5%			
269			X	3+80.46	13.0' LT	17.7	17.0	5.0	5.0	317.8	71.94	72.44	73.10	1.16	-	2.0%	2.5		71.99	2.0%	5.0	72.09	9.5	10.6%			
270			X	4+43.09	13.0' LT	16.7	17.0	5.0	5.0	300.6	71.75	72.25	73.08	1.33	-	10.0%	10.5		72.80	2.0%	5.0	72.90	1.5	12.2%			
271			X	5+08.82	13.0' LT	16.8	17.0	5.0	5.0	302.5	71.74	72.24	73.39	1.65	-	12.5%	10.5		73.05	2.0%	5.0	73.15	1.5	16.1%			
272			X	5+26.13	13.0' RT	46.6	17.0	5.0	5.0	808.1	71.80	72.30	73.42	1.62	-	12.5%	10.5		73.11	2.0%	5.0	73.21	1.5	13.9%			
273			X	5+63.25	13.0' LT	10.0	17.0	5.0	5.0	186.7	71.93	72.43	73.26	1.34	-	10.0%	10.5		72.98	2.0%	5.0	73.08	1.5	12.5%			
274			X	6+02.72	13.0' RT	16.2	17.0	5.0	5.0	292.2	72.06	72.56	73.58	1.52	-	12.5%	10.5		73.37	2.0%	5.0	73.47	1.5	7.1%			
275			X	6+36.95	13.0' RT	18.8	17.0	5.0	5.0	337.0	72.18	72.68	73.63	1.45	-	12.5%	8.5		73.24	2.0%	5.0	73.34	3.5	8.3%			
276			X	6+39.11	13.0' LT	17.3	17.0	5.0	5.0	310.6	72.19	72.69	73.50	1.32	-	2.0%	2.5		72.24	2.0%	5.0	72.34	9.5	12.3%			
277			X	7+03.43	13.0' RT	16.8	17.0	5.0	5.0	302.3	72.41	72.91	73.78	1.38	-	12.5%	8.5		73.47	2.0%	5.0	73.57	3.5	6.1%			
278			X	7+04.00	13.0' LT	17.3	17.0	5.0	5.0	311.5	72.41	72.91	73.43	1.02	-	2.0%	2.5		72.46	2.0%	5.0	72.56	9.5	9.1%			
279			X	7+57.31	13.0' RT	10.0	17.0	5.0	5.0	186.7	72.59	73.09	73.64	1.05	-	2.0%	2.5		72.64	2.0%	5.0	72.74	9.5	9.5%			
280			X	7+69.25	13.0' LT	17.9	17.0	5.0	5.0	321.2	72.63	73.13	73.79	1.16	-	2.0%	2.5		72.68	2.0%	5.0	72.78	9.5	10.6%			
281			X	8+30.55	13.0' LT	18.3	17.0	5.0	5.0	327.0	72.65	73.15	73.49	0.85	-	2.0%	2.5		72.70	2.0%	5.0	72.80	9.5	7.4%			
282			X	8+33.98	13.0' RT	18.6	17.0	5.0	5.0	332.9	72.63	73.13	73.78	1.15	-	9.0%	10.5		73.58	2.0%	5.0	73.68	1.5	7.0%			
283			X	9+02.87	13.0' RT	21.9	17.0	5.0	5.0	388.2	72.42	72.92	73.58	1.16	-	2.0%	2.5		72.47	2.0%	5.0	72.57	9.5	10.6%			
284			X	9+33.98	13.0' LT	10.2	17.0	5.0	5.0	190.8	72.33	72.83	73.15	0.82	-	5.0%	10.5		72.85	2.0%	5.0	72.95	1.5	13.1%			
285			X	9+52.26	13.0' LT	10.0	17.0	5.0	5.0	187.5	72.27	72.77	73.43	1.16	-	2.0%	2.5		72.32	2.0%	5.0	72.42	9.5	10.6%			
286			X	9+63.89	13.0' LT	20.1	17.0	5.0	5.0	357.7	72.23	72.73	73.64	1.41	-	12.5%	10.5		73.55	2.0%	5.0	73.65	1.5	-0.4%			
287			X	10+29.19	13.0' LT	17.2	17.0	5.0	5.0	309.9	72.03	72.53	72.96	0.92	-	2.0%	2.5		72.08	2.0%	5.0	72.18	9.5	8.2%			
288			X	10+60.54	13.0' RT	10.0	17.0	5.0	5.0	186.7	71.94	72.44	73.21	1.27	-	2.0%	2.5		71.99	2.0%	5.0	72.09	9.5	11.8%			
289			X	10+82.70	13.0' RT	10.0	17.0	5.0	5.0	186.7	71.87	72.37	73.23	1.36	-	2.0%	2.5		71.92	2.0%	5.0	72.02	9.5	12.8%			
290			X	10+84.77	13.0' LT	10.4	17.0	5.0	5.0	194.1	71.86	72.36	72.86	0.99	-	2.0%	2.5		71.91	2.0%	5.0	72.01	9.5	8.9%			
291			X	11+54.75	13.0' RT	19.2	17.0	5.0	5.0	342.5	71.65	72.15	72.83	1.18	-	2.0%	2.5		71.70	2.0%	5.0	71.80	9.5	10.9%			
292			X	11+58.80	13.0' LT	17.3	17.0	5.0	5.0	311.2	71.63	72.13	72.64	1.00	-	2.0%	2.5		71.68	2.0%	5.0	71.78	9.5	9.0%			
293			X	12+12.10	13.0' LT	10.0	17.0	5.0	5.0	186.7	71.47	71.97	72.36	0.89	-	5.0%	10.4		71.99	2.0%	5.0	72.09	1.6	16.9%			
DRIVEWAY SUMMARY - LANGDON LANE																											
294			X	2+37.96	13.0' RT	17.0	17.0	5.0	5.0	306.4	71.61	72.11	73.27	1.66	-	2.0%	2.5		71.66	2.0%	5.0	71.76	9.5	15.9%			
295			X	3+09.63	13.0' RT	15.3	17.0	5.0	5.0	277.2	71.86	72.36	73.41	1.55	-	12.5%	9.5		73.04	2.0%	5.0	73.14	2.5	10.5%			
296			X	3+37.42	13.0' RT	15.3	17.0	5.0	5.0	277.2	71.95	72.45	73.58	1.63	-	12.5%	9.5		73.14	2.0%	5.0	73.24	2.5	13.8%			
297			X	3+56.57	13.0' RT	17.5	17.0	5.0	5.0	315.0	72.02	72.52	73.58	1.56	-	12.5%	9.5		73.21	2.0%	5.0	73.31	2.5	11.1%			
298			X	3+74.67	13.0' LT	17.6	17.0	5.0	5.0	315.2	72.08	72.58	73.67	1.59	-	2.0%	2.5		72.13	2.0%	5.0	72.23	9.5	15.1%			
299			X	4+15.75	13.0' RT	16.9	17.0	5.0	5.0	304.3	72.22	72.72	73.51	1.29	-	2.0%	2.5		72.27	2.0%	5.0	72.37	9.5	11.9%			
300			X	4+30.58	13.0' LT	12.6	17.0	5.0	5.0	230.1	72.20	72.70	73.76	1.56	-	2.0%	2.5		72.25	2.0%	5.0	72.35	9.5	14.8%			
301			X	4+72.83	13.0' LT	17.2	17.0	5.0	5.0	309.7	72.04	72.54	73.67	1.63	-	2.0%	2.5		72.09	2.0%	5.0	72.19	9.5	15.6%			
302			X	4+78.60	13.0' RT	17.5	17.0	5.0	5.0	313.5	72.02	72.52	73.90	1.88	-	12.5%	2.5		72.33	2.0%	5.0	72.43	9.5	15.4%			
303			X	5+34.65	13.0' LT	10.3	17.0	5.0	5.0	191.6	71.81	72.31	73.76	1.95	-	12.5%	2.5		72.12	2.0%	5.0	72.22	9.5	16.2%			
304			X	5+70.05	13.0' RT	10.2	17.0	5.0	5.0	190.5	71.72	72.22	73.98	2.25	-	33.3%		1.5	72.22	2.0%	5.0	72.32	10.5	15.8%			
305			X	6+09.30	13.0' LT	10.6	17.0	5.0	5.0	196.6	71.84	72.34	73.72	1.88	-	12.5%	2.5		72.15	2.0%	5.0	72.25	9.5	15.5%			
306			X	6+31.66	13.0' RT	10.0	17.0	5.0	5.0	186.7	71.91	72.41	73.92	2.02	-	12.5%	2.5		72.22	2.0%	5.0	72.32	9.5	16.9%			
307			X	6+87.41	13.0' LT	17.2	17.0	5.0	5.0	309.8	72.07	72.57	73.54	1.47	-	12.5%	10.5		73.39	2.0%	5.0	73.49	1.5	3.6%			
308			X	7+04.54	13.0' RT	20.0	17.0	5.0	5.0	356.7	72.13	72.63	74.01	1.88	-	12.5%	2.5		72.44	2.0%	5.0	72.54	9.5	15.5%			

NOTES:

1. REFER TO CITY OF HOUSTON DRIVEWAY DETAIL STD DWG NO: 02754-01B AND 02754-03.
2. REFER TO DRIVEWAY TABLE FOR DETAILS ON D1, D2, D3, P1, P2, S2, S3 AND S4.

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ENGINEER: V. N. MURTHY MADE, P.E.
P.E. Reg No: 134936
DATE: JULY 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA
PAVING AND DRAINAGE
IMPROVEMENTS

DRIVEWAY SUMMARY TABLE
SHEET 6 of 9

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 183 OF 369	

FILE:P:\ACTIVE\18PV97 - 2024 Update\Ph II\Working\Transportation\Sheets\Driveway Summary Table\97_Driveway Summary Table.dgn
DATE:8/7/2026

DRIVEWAY NO.	DRWY TYPE			STA	OFFSET	DRIVEWAY WIDTH	DRIVEWAY LENGTH	LEFT	RIGHT	DRIVEWAY AREA	ELEVATION AT GUTTER	ELEVATION AT CURB/ CL.	ELEVATION AT ROW	DELTA ELEVATION	OVERALL SLOPE	SIDEWALK										CONSTRUCTION EASEMENT		
	DECORATIVE	COMMERCIAL	RESIDENTIAL					CURB RETURN RADIUS								SLOPE	DISTANCE	OPT1 or OPT2	ELEVATION	SLOPE	DISTANCE	ELEVATION	DISTANCE	SLOPE	DISTANCE (ROW TO EASE.)	ELEVATION AT EASEMENT	SLOPE
																S1	D1		P1	S2	D2	P2	D3	S3			S4
						(FT)	(FT)	(FT)	(FT)	(SF)	(FT)	(FT)	(FT)	(FT)	(%)	(%)	(FT)	(FT)	(FT)	(%)	(FT)	(FT)	(FT)	(%)	(FT)	(FT)	(%)
DRIVEWAY SUMMARY - LANGDON LANE																												
309			X	7+55.94	13.0' LT	17.2	17.0	5.0	5.0	309.3	72.28	72.78	73.72	1.44	-	12.5%	10.5		73.59	2.0%	5.0	73.69	1.5	1.7%			
310			X	8+18.26	13.0' LT	17.3	17.0	5.0	5.0	311.3	72.23	72.73	73.55	1.32	-	10.0%	10.5		73.28	2.0%	5.0	73.38	1.5	11.3%			
311			X	8+60.47	13.0' RT	18.9	17.0	5.0	5.0	338.2	72.05	72.55	73.97	1.91	-	12.5%	2.5		72.37	2.0%	5.0	72.47	9.5	15.8%			
312			X	8+82.64	13.0' LT	16.8	17.0	5.0	5.0	302.8	71.96	72.46	73.67	1.71	-	12.5%	2.5		72.28	2.0%	5.0	72.38	9.5	13.7%			
313			X	9+73.43	13.0' LT	14.3	17.0	5.0	5.0	259.0	71.79	72.29	73.65	1.86	-	12.5%	2.5		72.10	2.0%	5.0	72.20	9.5	15.2%			
314			X	9+97.14	13.0' RT	17.7	17.0	5.0	5.0	317.8	71.86	72.36	73.49	1.63	-	12.5%	9.5		73.05	2.0%	5.0	73.15	2.5	13.6%			
315			X	10+09.84	13.0' LT	17.3	17.0	5.0	5.0	310.5	71.90	72.40	73.51	1.61	-	12.5%	10.5		73.21	2.0%	5.0	73.31	1.5	13.1%			
316			X	10+76.89	13.0' LT	16.1	17.0	5.0	5.0	290.4	72.11	72.61	73.58	1.48	-	12.5%	2.5		72.42	2.0%	5.0	72.52	9.5	11.2%			
317			X	11+34.50	13.0' RT	17.4	17.0	5.0	5.0	313.1	72.28	72.78	73.87	1.59	-	12.5%	9.5		73.47	2.0%	5.0	73.57	2.5	11.9%			
318			X	11+40.09	13.0' LT	17.0	17.0	5.0	5.0	304.9	72.30	72.80	73.82	1.51	-	12.5%	2.5		72.61	2.0%	5.0	72.71	9.5	11.6%			
DRIVEWAY SUMMARY - AQUA LANE																												
319			X	1+37.01	39.0' LT	19.1	12.4	5.0	5.0	253.9	72.51	73.01	73.54	1.04	-	4.0%	2.5		72.61	2.0%	5.0	72.71	4.9	17.0%			
320			X	1+09.03	38.0' RT	22.2	11.5	5.0	5.0	273.5	72.86	73.36	73.86	1.00	-	12.5%	2.5		73.17	2.0%	5.0	73.27	4.0	14.6%			
321			X	1+44.92	38.0' RT	17.1	11.6	5.0	5.0	214.6	72.46	72.96	73.62	1.15	-	33.3%		1.5	72.96	2.0%	5.0	73.06	6.6	8.4%			
DRIVEWAY SUMMARY - SHINER LANE																												
322			X	2+47.51	13.0' LT	16.8	17.0	5.0	5.0	302.3	71.89	72.39	73.33	1.43	-	2.0%	10.5		72.10	2.0%	5.0	72.20	12.0	9.4%			
323			X	1+81.34	13.0' RT	16.0	11.8	5.0	5.0	204.9	72.44	72.94	73.30	0.86	-	2.0%	3.5		72.51	2.0%	5.0	72.61	6.8	10.2%			
324			X	1+32.12	13.0' LT	16.0	9.7	5.0	5.0	172.7	72.84	73.34	73.40	0.57	-	2.0%	3.5		72.91	2.0%	5.0	73.01	4.7	8.3%			
325			X	1+06.40	13.0' RT	16.5	10.2	5.0	5.0	184.2	73.12	73.62	73.75	0.63	-	2.0%	3.5		73.19	2.0%	5.0	73.29	5.2	9.0%			
326			X	1+37.88	13.0' LT	15.3	11.7	5.0	5.0	195.6	72.75	73.25	73.54	0.79	-	2.0%	3.5		72.82	2.0%	5.0	72.92	6.7	9.2%			
327			X	1+82.73	13.0' LT	15.8	15.8	5.0	5.0	266.7	72.43	72.93	73.06	0.63	-	2.0%	3.5		72.50	2.0%	5.0	72.60	10.8	4.3%			
328			X	2+44.29	13.0' RT	16.0	17.0	5.0	5.0	288.7	71.92	72.42	73.21	1.29	-	2.0%	10.5		72.13	2.0%	5.0	72.23	12.0	8.2%			
DRIVEWAY SUMMARY - WHITECAP LANE																												
329			X	2+24.91	13.0' RT	18.1	17.0	5.0	5.0	324.3	73.46	73.96	74.79	1.34	-	2.0%	2.5		73.51	2.0%	5.0	73.61	9.5	12.5%			
330			X	2+76.19	13.0' RT	16.0	17.0	5.0	5.0	288.9	73.14	73.64	74.76	1.62	-	2.0%	2.5		73.19	2.0%	5.0	73.29	9.5	15.5%			
331			X	3+42.49	13.0' RT	17.9	17.0	5.0	5.0	321.8	72.73	73.23	74.56	1.83	-	12.5%	2.5		73.05	2.0%	5.0	73.15	9.5	14.9%			
332			X	4.+00.10	13.0' LT	19.5	17.0	5.0	5.0	347.6	72.56	73.06	74.58	2.02	-	12.5%	2.5		72.87	2.0%	5.0	72.97	9.5	16.9%			
333			X	4+12.65	13.0' RT	16.2	17.0	5.0	5.0	292.5	72.60	73.10	74.48	1.89	-	12.5%	2.5		72.91	2.0%	5.0	73.01	9.5	15.5%			
334			X	4+72.90	13.0' RT	16.0	17.0	5.0	5.0	288.3	72.78	73.28	74.75	1.97	-	12.5%	2.5		73.09	2.0%	5.0	73.19	9.5	16.4%			
335			X	4+74.23	13.0' LT	35.9	17.0	5.0	5.0	626.3	72.78	73.28	74.14	1.36	-	2.0%	2.5		72.83	2.0%	5.0	72.93	9.5	12.7%			
336			X	5+38.87	13.0' LT	35.8	17.0	5.0	5.0	625.7	72.97	73.47	74.28	1.30	-	2.0%	2.5		73.02	2.0%	5.0	73.12	9.5	12.1%			
337			X	5+93.50	13.0' RT	36.0	17.0	5.0	5.0	629.2	73.14	73.64	74.25	1.12	-	2.0%	2.5		73.19	2.0%	5.0	73.29	9.5	10.2%			
338			X	6+01.72	13.0' LT	45.6	17.0	5.0	5.0	791.8	73.16	73.66	74.35	1.19	-	2.0%	2.5		73.21	2.0%	5.0	73.31	9.5	10.9%			
339			X	6+52.33	13.0' RT	36.2	17.0	5.0	5.0	632.3	73.31	73.81	74.41	1.10	-	2.0%	2.5		73.36	2.0%	5.0	73.46	9.5	10.0%			
340			X	6+66.32	13.0' LT	35.6	17.0	5.0	5.0	621.4	73.35	73.85	74.26	0.90	-	2.0%	2.5		73.40	2.0%	5.0	73.50	9.5	7.9%			
341			X	7+11.83	13.0' RT	35.7	17.0	5.0	5.0	623.6	73.49	73.99	74.13	0.65	-	2.0%	2.5		73.54	2.0%	5.0	73.64	9.5	5.2%			
342			X	7+26.18	13.0' LT	35.8	17.0	5.0	5.0	625.5	73.53	74.03	74.33	0.80	-	2.0%	2.5		73.58	2.0%	5.0	73.68	9.5	6.8%			
343			X	7+71.93	13.0' RT	36.5	17.0	5.0	5.0	636.4	73.67	74.17	74.56	0.89	-	2.0%	2.5		73.72	2.0%	5.0	73.82	9.5	7.8%			
344			X	7+95.43	13.0' LT	35.9	17.0	5.0	5.0	626.8	73.64	74.14	74.57	0.93	-	2.0%	2.5		73.69	2.0%	5.0	73.79	9.5	8.2%			
345			X	8+31.95	13.0' RT	35.9	17.0	5.0	5.0	627.1	73.51	74.01	74.50	0.99	-	2.0%	2.5		73.56	2.0%	5.0	73.66	9.5	8.8%			
346			X	8+54.81	13.0' LT	36.0	17.0	5.0	5.0	629.2	73.44	73.94	74.28	0.85	-	2.0%	2.5		73.49	2.0%	5.0	73.59	9.5	7.4%			
347			X	8+93.12	13.0' RT	35.9	17.0	5.0	5.0	626.4	73.31	73.81	74.44	1.14	-	2.0%	2.5		73.36	2.0%	5.0	73.46	9.5	10.4%			
348			X	9+18.79	13.0' LT	35.8	17.0	5.0	5.0	626.1	73.22	73.72	74.15	0.93	-	2.0%	2.5		73.27	2.0%	5.0	73.37	9.5	8.2%			
349			X	9+55.92	13.0' RT	36.0	17.0	5.0	5.0	628.9	73.09	73.59	74.29	1.20	-	2.0%	2.5		73.14	2.0%	5.0	73.24	9.5	11.1%			
350			X	9+80.63	13.0' LT	35.9	17.0	5.0	5.0	626.5	73.01	73.51	74.22	1.21	-	2.0%	2.5		73.06	2.0%	5.0	73.16	9.5	11.2%			
351			X	10+13.14	13.0' RT	35.6	17.0	5.0	5.0	622.3	72.90	73.40	74.18	1.28	-	2.0%	2.5		72.95	2.0%	5.0	73.05	9.5	11.9%			
352			X	10+44.86	13.0' LT	35.8	17.0	5.0	5.0	625.4	72.79	73.29	74.12	1.33	-	2.0%	2.5		72.84	2.0%	5.0	72.94	9.5	12.4%			
353			X	10+73.82	13.0' RT	36.0	17.0	5.0	5.0	629.2	72.69	73.19	74.16	1.46	-	2.0%	2.5		72.74	2.0%	5.0	72.84	9.5	13.8%			
354			X	11+06.92	13.0' LT	35.8	17.0	5.0	5.0	625.5	72.58	73.08	73.94	1.36	-	12.5%	7.5		73.52	2.0%	5.0	73.62	4.5	7.2%			
355			X	11+74.00	13.0' LT	36.0	17.0	5.0	5.0	628.4	72.35	72.85	73.86	1.51	-	2.0%	2.5		72.40	2.0%	5.0	72.50	9.5	14.3%			
356			X	2+42.52	13.0' RT	17.1	17.0	5.0	5.0	307.8	72.45	72.95	73.59	1.14	-	12.5%	7.5		73.39	2.0%	5.0	73.49	4.5	2.2%			
357			X	2+62.21	13.0' LT	15.4	17.0	5.0	5.0	278.8	72.47	72.97	73.39	0.92	-	2.0%	8.0		72.63	2.0%	5.0	72.73	4.0	16.5%			
358			X	3+11.14	13.0' RT	10.1	17.0	5.0	5.0	187.7	72.30	72.80	73.40	1.10	-	12.5%	7.5		73.23	2.0%	5.0	73.33	4.5	1.4%			
359			X	3+25.43	13.0' LT	11.9	17.0	5.0	5.0	219.5	72.24	72.74	73.60	1.36	-	2.0%	2.5		72.29	2.0%	5.0	72.39	9.5	12.7%			
360			X	3+87.66	13.0' LT	17.0	17.0	5.0	5.0	305.0	72.02	72.52	73.67	1.65	-	2.0%	2.5		72.07	2.0%	5.0	72.17	9.5	15.8%			
361			X	4+03.08	13.0' RT	17.1	17.0	5.0	5.0	307.5	71.96	72.46	73.46	1.50	-	12.5%	7.5		72.90	2.0%	5.0	73.00	4.5	10.3%			
362			X	4+54.92	13.0' LT	10.0	17.0	5.0	5.0	186.7	71.94	72.44	73.39	1.45	-	2.0%	2.5		71.99	2.0%	5.0	72.09	9.5	13.7%			
363			X	4+79.28	13.0' LT	16.9	17.0	5.0	5.0	303.9	72.01	72.51	73.54	1.52	-	2.0%	2.5		72.06	2.0%	5.0	72.16	9.5	14.4%			

NOTES:

1. REFER TO CITY OF HOUSTON DRIVEWAY DETAIL STD DWG NO: 02754-01B AND 02754-03.
2. REFER TO DRIVEWAY TABLE FOR DETAILS ON D1, D2, D3, P1, P2, S2, S3 AND S4.

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ENGINEER: V. N. MURTHY MADE, P.E.
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA
PAVING AND DRAINAGE
IMPROVEMENTS

DRIVEWAY SUMMARY TABLE
SHEET 7 of 9

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 184 OF 369	

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DATE:8/7/2026

DRIVEWAY NO.	DRWY TYPE			STA	OFFSET	DRIVEWAY WIDTH	DRIVEWAY LENGTH	LEFT / RIGHT CURB RETURN RADIUS		DRIVEWAY AREA	ELEVATION AT GUTTER	ELEVATION AT CURB/CL	ELEVATION AT ROW	DELTA ELEVATION	OVERALL SLOPE	SIDEWALK								CONSTRUCTION EASEMENT		
	DECORATIVE	COMMERCIAL	RESIDENTIAL					LEFT	RIGHT							SLOPE	DISTANCE	OPT1 or OPT2	ELEVATION	SLOPE	DISTANCE	ELEVATION	DISTANCE	SLOPE	DISTANCE (ROW TO EASE.)	ELEVATION AT EASEMENT	SLOPE
																S1	D1		P1	S2	D2	P2	D3	S3			S4
						(FT)	(FT)	(FT)	(FT)	(SF)	(FT)	(FT)	(FT)	(FT)	(%)	(%)	(FT)	(FT)	(FT)	(%)	(FT)	(FT)	(FT)	(%)	(FT)	(FT)	(%)
DRIVEWAY SUMMARY - WHITECAP LANE																											
364			X	5+40.51	13.0' RT	17.0	17.0	5.0	5.0	305.6	72.20	72.70	73.62	1.42	-	2.0%	2.5		72.25	2.0%	5.0	72.35	9.5	13.3%			
365			X	5+42.30	13.0' LT	16.9	17.0	5.0	5.0	303.7	72.21	72.71	73.69	1.48	-	12.5%	8.5		73.27	2.0%	5.0	73.37	3.5	9.1%			
366			X	6+38.91	13.0' LT	10.0	17.0	5.0	5.0	186.7	72.51	73.01	73.79	1.29	-	2.0%	2.5		72.56	2.0%	5.0	72.66	9.5	12.0%			
367			X	6+67.35	13.0' RT	10.5	17.0	5.0	5.0	195.3	72.59	73.09	73.58	0.99	-	2.0%	7.5		72.74	2.0%	5.0	72.84	4.5	16.4%			
368			X	6+87.15	13.0' RT	10.4	17.0	5.0	5.0	193.8	72.65	73.15	73.60	0.95	-	2.0%	7.5		72.80	2.0%	5.0	72.90	4.5	15.6%			
369			X	7+01.96	13.0' LT	10.1	17.0	5.0	5.0	187.8	72.70	73.20	74.00	1.30	-	12.5%	8.0		73.70	2.0%	5.0	73.80	4.0	4.9%			
370			X	7+28.16	13.0' LT	17.2	17.0	5.0	5.0	309.5	72.78	73.28	74.00	1.22	-	8.0%	8.0		73.42	2.0%	5.0	73.52	4.0	12.0%			
371			X	7+64.27	13.0' RT	21.1	17.0	5.0	5.0	375.4	72.89	73.39	74.16	1.27	-	2.0%	2.5		72.94	2.0%	5.0	73.04	9.5	11.8%			
372			X	7+90.03	13.0' LT	17.2	17.0	5.0	5.0	309.6	72.97	73.47	73.94	0.97	-	3.0%	8.0		73.21	2.0%	5.0	73.31	4.0	15.8%			
373			X	8+47.80	13.0' LT	10.1	17.0	5.0	5.0	189.0	73.15	73.65	73.93	0.78	-	2.0%	8.0		73.31	2.0%	5.0	73.41	4.0	13.1%			
374			X	8+94.26	13.0' LT	10.2	17.0	5.0	5.0	189.9	73.29	73.79	74.38	1.09	-	2.0%		0.5	73.30	2.0%	6.0	73.42	10.5	9.2%			
375			X	9+26.55	13.0' LT	12.8	17.0	5.0	5.0	234.4	73.28	73.78	74.20	0.92	-	2.0%		0.5	73.29	2.0%	6.0	73.41	10.5	7.5%			
376			X	9+66.63	13.0' RT	17.1	17.0	5.0	5.0	306.6	73.13	73.63	74.35	1.22	-	9.0%	8.0		73.85	2.0%	5.0	73.95	4.0	10.0%			
377			X	9+77.14	13.0' LT	17.0	17.0	5.0	5.0	306.2	73.10	73.60	74.30	1.20	-	2.0%	2.5		73.15	2.0%	5.0	73.25	9.5	11.1%			
378		X		10+47.53	13.0' LT	37.7	17.0	10.0	10.0	706.8	72.84	73.34	73.97	1.13	-	2.0%	2.5		72.89	2.0%	5.0	72.99	9.5	10.3%			
379		X		10+83.98	13.0' RT	39.5	17.0	10.0	10.0	738.6	72.71	73.21	73.97	1.26	-	2.0%	2.5		72.76	2.0%	5.0	72.86	9.5	11.7%			
DRIVEWAY SUMMARY - STARFISH LANE																											
380			X	1+60.31	13.0' LT	15.3	11.2	5.0	5.0	187.3	72.99	73.49	74.04	1.05	-	33.3%		1.5	73.49	2.0%	5.0	73.59	4.7	9.7%			
381			X	1+48.38	13.0' LT	18.2	11.1	5.0	5.0	219.8	73.08	73.58	74.23	1.14	-	33.3%		1.5	73.58	2.0%	5.0	73.68	4.6	11.7%			
382			X	1+36.06	13.0' RT	17.4	11.0	5.0	5.0	207.9	73.12	73.62	74.32	1.20	-	33.3%		1.5	73.62	2.0%	5.0	73.72	4.5	13.4%			
383			X	1+87.39	13.0' RT	18.9	10.8	5.0	5.0	222.0	72.60	73.10	73.92	1.33	-	33.3%		1.5	73.10	2.0%	5.0	73.20	4.3	16.8%			
DRIVEWAY SUMMARY - BEECHCOVE LANE																											
384			X	10+05.83	13.0' LT	16.7	17.0	5.0	5.0	301.4	71.82	72.32	73.46	1.64	-	12.5%	6.5		72.63	2.0%	5.0	72.73	5.5	13.1%			
385			X	9+72.8863	13.0' RT	17.2	17.0	5.0	5.0	309.7	72.04	72.54	73.22	1.18	-	2.0%	2.5		72.09	2.0%	5.0	72.19	9.5	10.9%			
386			X	9+52.74	13.0' LT	30.8	17.0	5.0	5.0	540.3	72.17	72.67	73.59	1.42	-	12.5%	6.5		72.99	2.0%	5.0	73.09	5.5	9.2%			
387			X	9+47.69	13.0' RT	10.0	17.0	5.0	5.0	186.9	72.31	72.81	73.50	1.20	-	2.0%	2.5		72.36	2.0%	5.0	72.46	9.5	11.0%			
388			X	8+46.87	13.0' RT	18.9	17.0	5.0	5.0	337.2	72.88	73.38	73.83	0.95	-	2.0%	2.5		72.93	2.0%	5.0	73.03	9.5	8.4%			
389			X	7+79.22	13.0' RT	17.4	17.0	5.0	5.0	313.2	72.81	73.31	73.81	1.00	-	2.0%	2.5		72.86	2.0%	5.0	72.96	9.5	9.0%			
390			X	7+48.24	13.0' RT	10.1	17.0	5.0	5.0	188.0	72.72	73.22	74.06	1.35	-	2.0%	2.5		72.77	2.0%	5.0	72.87	9.5	12.6%			
391			X	7+07.49	13.0' LT	17.3	17.0	5.0	5.0	310.1	72.59	73.09	74.04	1.45	-	2.0%	2.5		72.64	2.0%	5.0	72.74	9.5	13.7%			
392			X	6+78.56	13.0' RT	10.0	17.0	5.0	5.0	186.7	72.51	73.01	73.54	1.04	-	2.0%	2.5		72.56	2.0%	5.0	72.66	9.5	9.3%			
393			X	6+65.95	13.0' LT	17.3	17.0	5.0	5.0	311.5	72.47	72.97	74.01	1.54	-	2.0%	2.5		72.52	2.0%	5.0	72.62	9.5	14.6%			
394			X	5+73.58	13.0' RT	17.8	17.0	5.0	5.0	318.5	72.19	72.69	73.38	1.19	-	2.0%	2.5		72.24	2.0%	5.0	72.34	9.5	10.9%			
395			X	5+09.91	13.0' RT	17.3	17.0	5.0	5.0	311.1	72.00	72.50	73.50	1.50	-	12.5%	9.0		73.12	2.0%	5.0	73.22	3.0	9.3%			
396			X	4+46.76	13.0' RT	22.4	17.0	5.0	5.0	398.0	72.24	72.74	73.51	1.27	-	10.0%	9.0		73.14	2.0%	5.0	73.24	3.0	9.1%			
397			X	4+23.44	13.0' LT	17.3	17.0	5.0	5.0	311.3	72.40	72.90	73.75	1.36	-	10.0%	7.5		73.15	2.0%	5.0	73.25	4.5	11.3%			
398			X	4+12.40	13.0' RT	10.1	17.0	5.0	5.0	188.0	72.47	72.97	74.00	1.53	-	12.5%	9.0		73.60	2.0%	5.0	73.70	3.0	10.0%			
399			X	3+79.36	13.0' LT	16.7	17.0	5.0	5.0	300.2	72.70	73.20	74.01	1.31	-	10.0%	7.5		73.45	2.0%	5.0	73.55	4.5	10.1%			
400			X	3+16.39	13.0' RT	17.4	17.0	5.0	5.0	312.2	73.13	73.63	74.01	0.88	-	3.0%	9.0		73.40	2.0%	5.0	73.50	3.0	17.0%			
401			X	2+48.05	13.0' RT	17.4	17.0	5.0	5.0	311.9	73.23	73.73	74.03	0.80	-	2.5%	9.0		73.46	2.0%	5.0	73.56	3.0	15.9%			
402			X	1+78.10	13.0' RT	17.7	17.0	5.0	5.0	317.2	73.00	73.50	74.27	1.27	-	10.0%	9.0		73.90	2.0%	5.0	74.00	3.0	9.0%			
403			X	1+26.85	13.0' LT	16.3	17.0	5.0	5.0	293.5	73.20	73.70	74.51	1.31	-	2.0%	2.5		73.25	2.0%	5.0	73.35	9.5	12.2%			
404			X	1+20.43	13.0' RT	17.9	17.0	5.0	5.0	320.8	73.24	73.74	74.63	1.39	-	12.5%	9.0		74.36	2.0%	5.0	74.46	3.0	5.6%			
405			X	8+47.69	13.0' RT	36.2	17.0	5.0	5.0	631.3	72.29	72.79	73.84	1.55	-	2.0%	2.5		72.34	2.0%	5.0	72.44	9.5	14.8%			
406			X	7+83.43	13.0' RT	36.3	17.0	5.0	5.0	633.2	72.13	72.63	73.99	1.86	-	12.5%	2.5		72.44	2.0%	5.0	72.54	9.5	15.3%			
407			X	7+40.23	13.0' LT	36.0	17.0	5.0	5.0	629.2	72.27	72.77	74.03	1.76	-	2.0%	2.5		72.32	2.0%	5.0	72.42	9.5	16.9%			
408			X	7+16.33	13.0' RT	36.0	17.0	5.0	5.0	627.9	72.35	72.85	74.06	1.71	-	2.0%	2.5		72.40	2.0%	5.0	72.50	9.5	16.4%			
409			X	6+74.19	13.0' LT	35.8	17.0	5.0	5.0	625.9	72.49	72.99	74.19	1.70	-	2.0%	2.5		72.54	2.0%	5.0	72.64	9.5	16.3%			
410			X	6+52.68	13.0' RT	36.2	17.0	5.0	5.0	631.8	72.56	73.06	74.30	1.74	-	2.0%	2.5		72.61	2.0%	5.0	72.71	9.5	16.7%			
411			X	6+12.24	13.0' LT	36.1	17.0	5.0	5.0	629.8	72.69	73.19	74.30	1.60	-	2.0%	2.5		72.74	2.0%	5.0	72.84	9.5	15.3%			
412			X	5+90.11	13.0' RT	35.7	17.0	5.0	5.0	623.9	72.76	73.26	74.48	1.72	-	2.0%	2.5		72.81	2.0%	5.0	72.91	9.5	16.5%			
413			X	5+46.71	13.0' LT	35.9	17.0	5.0	5.0	626.3	72.91	73.41	74.12	1.21	-	2.0%	2.5		72.96	2.0%	5.0	73.06	9.5	11.2%			
414			X	5+30.68	13.0' RT	35.9	17.0	5.0	5.0	626.4	72.96	73.46	74.73	1.77	-	2.0%	2.5		73.01	2.0%	5.0	73.11	9.5	17.1%			
415			X	4+84.83	13.0' LT	35.8	17.0	5.0	5.0	624.8	73.11	73.61	74.69	1.58	-	2.0%	2.5		73.16	2.0%	5.0	73.26	9.5	15.0%			
416			X	4+71.15	13.0' RT	36.2	17.0	5.0	5.0	632.5	73.16	73.66	74.94	1.78	-	12.5%	2.5		73.47	2.0%	5.0	73.57	9.5	14.4%			
417			X	4+21.68	13.0' LT	35.6	17.0	5.0	5.0	622.3	73.32	73.82	74.95	1.63	-	2.0%	2.5		73.37	2.0%	5.0	73.47	9.5	15.5%			
418			X	4+07.71	13.0' RT	36.1	17.0	5.0	5.0	629.7	73.37	73.87	75.12	1.75	-	2.0%	2.5		73.42	2.0%	5.0	73.52	9.5	16.9%			

NOTES:

1. REFER TO CITY OF HOUSTON DRIVEWAY DETAIL STD DWG NO: 02754-01B AND 02754-03.
2. REFER TO DRIVEWAY TABLE FOR DETAILS ON D1, D2, D3, P1, P2, S2, S3 AND S4.

ISANI
civil · design · engineers
10448 Westoffice Drive
Houston, Texas 77042
P 713 747 2399
F 713 748 3748
TBPE Firm Reg. #4575

SURVEYED BY: Kuo&Associates
FB NO. P-6382

INTERIM REVIEW ONLY
DOCUMENT INCOMPLETE;
NOT INTENDED FOR PERMIT, BIDDING OR CONSTRUCTION
ENGINEER: V. N. MURTHY MADE, P.E.
P.E. Reg No: 134936
DATE: JULY 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA
PAVING AND DRAINAGE
IMPROVEMENTS

DRIVEWAY SUMMARY TABLE
SHEET 8 of 9

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 185 OF 369	

FILE:P:\ACTIVE\18PV97 - 2024 Update\Ph II\Working\Transportation\Sheets\Driveway Summary Table\97_Driveway Summary Table.dgn
DATE:8/7/2026

DRIVEWAY NO.	DRWY TYPE			STA	OFFSET	DRIVEWAY WIDTH	DRIVEWAY LENGTH	LEFT / RIGHT CURB RETURN RADIUS		DRIVEWAY AREA	ELEVATION AT GUTTER	ELEVATION AT CURB CL	ELEVATION AT ROW	DELTA ELEVATION	OVERALL SLOPE	SIDEWALK									CONSTRUCTION EASEMENT		
	DECORATIVE	COMMERCIAL	RESIDENTIAL					LEFT	RIGHT							SLOPE	DISTANCE	OPT1 or OPT2	ELEVATION	SLOPE	DISTANCE	ELEVATION	DISTANCE	SLOPE	DISTANCE (ROW TO EASE.)	ELEVATION AT EASEMENT	SLOPE
																S1	D1		P1	S2	D2	P2	D3	S3			S4
						(FT)	(FT)	(FT)	(FT)	(SF)	(FT)	(FT)	(FT)	(FT)	(%)	(%)	(FT)	(FT)	(FT)	(%)	(FT)	(FT)	(FT)	(%)	(FT)	(FT)	(%)
DRIVEWAY SUMMARY - BEECHCOVE LANE																											
419			X	3+55.91	13.0' LT	35.9	17.0	5.0	5.0	626.7	73.54	74.04	74.98	1.45	-	2.0%	2.5		73.59	2.0%	5.0	73.69	9.5	13.6%			
420			X	3+46.97	13.0' RT	35.8	17.0	5.0	5.0	625.2	73.57	74.07	75.21	1.64	-	2.0%	2.5		73.62	2.0%	5.0	73.72	9.5	15.7%			
421			X	2+96.12	13.0' LT	36.0	17.0	5.0	5.0	628.6	73.73	74.23	74.94	1.20	-	2.0%	2.5		73.78	2.0%	5.0	73.88	9.5	11.1%			
422		X		2+90.18	13.0' RT	47.5	17.0	10.0	10.0	873.8	73.75	74.25	75.19	1.43	-	2.0%	2.5		73.80	2.0%	5.0	73.90	9.5	13.5%			
DRIVEWAY SUMMARY - RIPTIDE DR																											
423			X	2+44.57	13.0' LT	17.5	17.0	5.0	5.0	313.4	71.81	72.31	72.99	1.18	-	2.0%	2.5		71.86	2.0%	5.0	71.96	9.5	10.9%			
424			X	3+10.19	13.0' LT	17.1	17.0	5.0	5.0	306.9	70.58	71.08	72.60	2.03	-	12.5%	2.5		70.89	2.0%	5.0	70.99	9.5	17.0%			
425			X	3+01.92	13.0' RT	16.7	17.0	5.0	5.0	300.3	70.62	71.12	72.51	1.89	-	12.5%	2.5		70.94	2.0%	5.0	71.04	9.5	15.5%			
426			X	2+62.458	13.0' RT	16.0	17.0	5.0	5.0	288.1	70.83	71.33	73.23	2.40	-	33.3%		0.5	71.67	2.0%	5.0	71.77	12.0	12.2%			
427			X	2+54.93	13.0' LT	10.0	17.0	5.0	5.0	186.7	70.88	71.38	72.73	1.86	-	12.5%	2.5		71.19	2.0%	5.0	71.29	9.5	15.2%			
428			X	1+83.80	13.0' LT	16.9	16.6	5.0	5.0	296.9	71.43	71.93	72.63	1.20	-	2.0%	2.5		71.48	2.0%	5.0	71.58	9.1	11.5%			
429			X	1+31.64	13.0' LT	10.0	11.0	5.0	5.0	126.7	71.07	71.57	71.72	0.64	-	2.0%	2.5		71.12	2.0%	5.0	71.22	3.5	14.1%			
430			X	2+89.65	13.0' LT	27.5	17.0	5.0	5.0	484.8	70.97	71.47	72.12	1.16	-	2.0%	2.5		71.02	2.0%	5.0	71.12	9.5	10.6%			
431			X	2+40.01	13.0' LT	24.8	17.0	5.0	5.0	439.0	70.92	71.42	72.51	1.59	-	2.0%	2.5		70.97	2.0%	5.0	71.07	9.5	15.1%			
432			X	2+18.57	13.0' RT	17.5	17.0	5.0	5.0	314.8	70.83	71.33	72.60	1.77	-	12.5%	7.5		71.77	2.0%	5.0	71.87	4.5	16.2%			
433			X	20+66.42	13.0' LT	16.6	15.2	5.0	5.0	269.8	71.40	71.90	72.92	1.51	-	4.0%	2.5		71.50	2.0%	5.0	71.60	7.7	17.0%			
434			X	20+09.31	13.0' LT	22.0	17.0	5.0	5.0	391.5	71.73	72.23	73.16	1.44	-	11.0%	6.0		72.39	2.0%	5.0	72.49	6.0	11.3%			
435			X	19+92.44	13.0' RT	17.7	17.0	5.0	5.0	317.1	71.81	72.31	73.09	1.28	-	2.0%	2.5		71.86	2.0%	5.0	71.96	9.5	11.9%			
436			X	19+46.11	13.0' LT	18.4	17.0	5.0	5.0	328.7	72.02	72.52	72.29	0.27	-	2.0%	6.0		72.14	2.0%	5.0	72.24	6.0	0.8%			
437			X	19+35.33	13.0' RT	21.2	17.0	5.0	5.0	377.9	71.99	72.49	73.24	1.25	-	2.0%	2.5		72.04	2.0%	5.0	72.14	9.5	11.6%			
438			X	18+88.60	13.0' RT	18.1	17.0	5.0	5.0	323.6	71.85	72.35	73.04	1.19	-	2.0%	2.5		71.90	2.0%	5.0	72.00	9.5	10.9%			
439			X	18+84.32	13.0' LT	17.4	17.0	5.0	5.0	312.7	71.84	72.34	73.35	1.50	-	12.5%	6.0		72.59	2.0%	5.0	72.69	6.0	10.9%			
440			X	17+84.06	13.0' LT	16.9	17.0	5.0	5.0	303.8	71.76	72.26	73.29	1.53	-	2.0%	2.5		71.81	2.0%	5.0	71.91	9.5	14.5%			
441			X	17+52.45	13.0' RT	17.1	17.0	5.0	5.0	307.9	71.85	72.35	72.93	1.08	-	2.0%	2.5		71.90	2.0%	5.0	72.00	9.5	9.8%			
442			X	17+15.06	13.0' LT	10.6	17.0	5.0	5.0	197.7	71.96	72.46	73.17	1.21	-	2.0%	2.5		72.01	2.0%	5.0	72.11	9.5	11.2%			
443			X	16+96.27	13.0' RT	18.2	17.0	5.0	5.0	326.2	72.02	72.52	73.36	1.34	-	2.0%	2.5		72.07	2.0%	5.0	72.17	9.5	12.5%			
444			X	16+83.15	13.0' LT	17.1	17.0	5.0	5.0	307.0	72.04	72.54	73.23	1.19	-	2.0%	2.5		72.09	2.0%	5.0	72.19	9.5	10.9%			
445			X	16+58.88	13.0' RT	17.5	17.0	5.0	5.0	314.0	71.94	72.44	73.37	1.43	-	2.0%	2.5		71.99	2.0%	5.0	72.09	9.5	13.5%			
446			X	14+75.06	13.0' RT	18.0	17.0	5.0	5.0	322.1	71.62	72.12	72.84	1.22	-	2.0%	2.5		71.67	2.0%	5.0	71.77	9.5	11.2%			
447			X	14+19.23	13.0' LT	17.7	17.0	5.0	5.0	317.7	71.81	72.31	73.41	1.60	-	12.5%	7.4		72.73	2.0%	5.0	72.83	4.6	12.5%			
448			X	13+51.06	13.0' LT	17.2	17.0	5.0	5.0	308.9	72.04	72.54	73.58	1.55	-	2.0%	2.5		72.09	2.0%	5.0	72.19	9.5	14.7%			
449			X	13+26.69	13.0' RT	17.2	17.0	5.0	5.0	308.6	72.12	72.62	73.13	1.02	-	2.0%	2.5		72.17	2.0%	5.0	72.27	9.5	9.1%			
450			X	12+90.46	13.0' LT	17.1	17.0	5.0	5.0	307.7	72.24	72.74	73.75	1.51	-	2.0%	2.5		72.29	2.0%	5.0	72.39	9.5	14.3%			
451			X	12+25.24	13.0' LT	10.0	17.0	5.0	5.0	186.7	72.46	72.96	73.40	0.94	-	2.0%	2.5		72.51	2.0%	5.0	72.61	9.5	8.4%			
452			X	11+54.02	13.0' LT	17.5	17.0	5.0	5.0	313.8	72.70	73.20	73.61	0.91	-	2.0%	2.5		72.75	2.0%	5.0	72.85	9.5	8.0%			
453			X	10+78.98	13.0' RT	10.0	17.0	5.0	5.0	186.7	72.95	73.45	73.49	0.55	-	2.0%	7.5		73.10	2.0%	5.0	73.20	4.5	6.6%			
454			X	10+66.32	13.0' LT	17.5	17.0	5.0	5.0	314.2	72.99	73.49	73.77	0.78	-	2.0%	2.5		73.04	2.0%	5.0	73.14	9.5	6.6%			
455			X	10+20.00	13.0' RT	16.9	17.0	5.0	5.0	304.1	73.02	73.52	73.87	0.86	-	2.0%	2.5		73.07	2.0%	5.0	73.17	9.5	7.4%			
456			X	9+17.91	13.0' LT	11.5	17.0	5.0	5.0	212.2	72.71	73.21	73.85	1.14	-	8.5%	9.0		73.47	2.0%	5.0	73.57	3.0	9.2%			
457			X	8+60.53	13.0' RT	17.1	17.0	5.0	5.0	307.2	72.53	73.03	73.53	1.00	-	2.0%	2.5		72.58	2.0%	5.0	72.68	9.5	8.9%			
458			X	8+57.12	13.0' LT	17.0	17.0	5.0	5.0	305.4	72.52	73.02	73.93	1.41	-	12.5%	9.0		73.65	2.0%	5.0	73.75	3.0	6.0%			
459			X	7+81.81	13.0' LT	10.0	17.0	5.0	5.0	186.7	72.44	72.94	73.81	1.36	-	2.0%	2.5		72.49	2.0%	5.0	72.59	9.5	12.8%			
460			X	7+64.56	13.0' LT	12.9	17.0	5.0	5.0	235.3	72.53	73.03	73.70	1.17	-	2.0%	2.5		72.58	2.0%	5.0	72.68	9.5	10.7%			
461			X	6+82.47	13.0' LT	18.7	17.0	5.0	5.0	334.7	72.97	73.47	74.13	1.16	-	9.0%	7.5		73.64	2.0%	5.0	73.74	4.5	8.6%			
462			X	6+57.81	13.0' RT	10.0	17.0	5.0	5.0	186.7	73.10	73.60	74.01	0.91	-	2.0%	8.0		73.26	2.0%	5.0	73.36	4.0	16.2%			
463			X	6+29.50	13.0' LT	10.6	17.0	5.0	5.0	196.5	73.25	73.75	74.21	0.96	-	2.0%	7.5		73.40	2.0%	5.0	73.50	4.5	15.8%			
464			X	5+71.56	13.0' RT	16.9	17.0	5.0	5.0	304.3	73.55	74.05	74.43	0.88	-	2.0%	8.0		73.71	2.0%	5.0	73.81	4.0	15.4%			
465			X	5+54.22	13.0' LT	16.9	17.0	5.0	5.0	303.7	73.65	74.15	74.88	1.23	-	2.0%	2.5		73.70	2.0%	5.0	73.80	9.5	11.4%			
466			X	4+94.33	13.0' LT	17.1	17.0	5.0	5.0	307.1	73.67	74.17	74.52	0.86	-	2.0%	2.5		73.72	2.0%	5.0	73.82	9.5	7.4%			
467			X	4+67.26	13.0' RT	10.2	17.0	5.0	5.0	190.3	73.56	74.06	74.66	1.10	-	8.0%	8.0		74.20	2.0%	5.0	74.30	4.0	8.9%			
468			X	4+42.31	13.0' RT	10.0	17.0	5.0	5.0	186.7	73.47	73.97	74.84	1.37	-	10.0%	8.0		74.27	2.0%	5.0	74.37	4.0	11.7%			
469			X	3+94.11	13.0' LT	10.0	17.0	5.0	5.0	187.2	73.28	73.78	74.77	1.48	-	10.0%	2.5		73.53	2.0%	5.0	73.63	9.5	11.9%			
470		X		3+59.37	13.0' LT	24.9	17.0	10.0	10.0	489.9	73.33	73.83	73.81	0.48	-	2.0%	2.5		73.38	2.0%	5.0	73.48	9.5	3.5%			
471		X		3+54.23	13.0' RT	36.7	17.0	10.0	10.0	690.3	73.35	73.85	74.95	1.59	-	12.5%	8.0		74.35	2.0%	5.0	74.45	4.0	12.3%			

NOTES:

1. REFER TO CITY OF HOUSTON DRIVEWAY DETAIL STD DWG NO: 02754-01B AND 02754-03.
2. REFER TO DRIVEWAY TABLE FOR DETAILS ON D1, D2, D3, P1, P2, S2, S3 AND S4.

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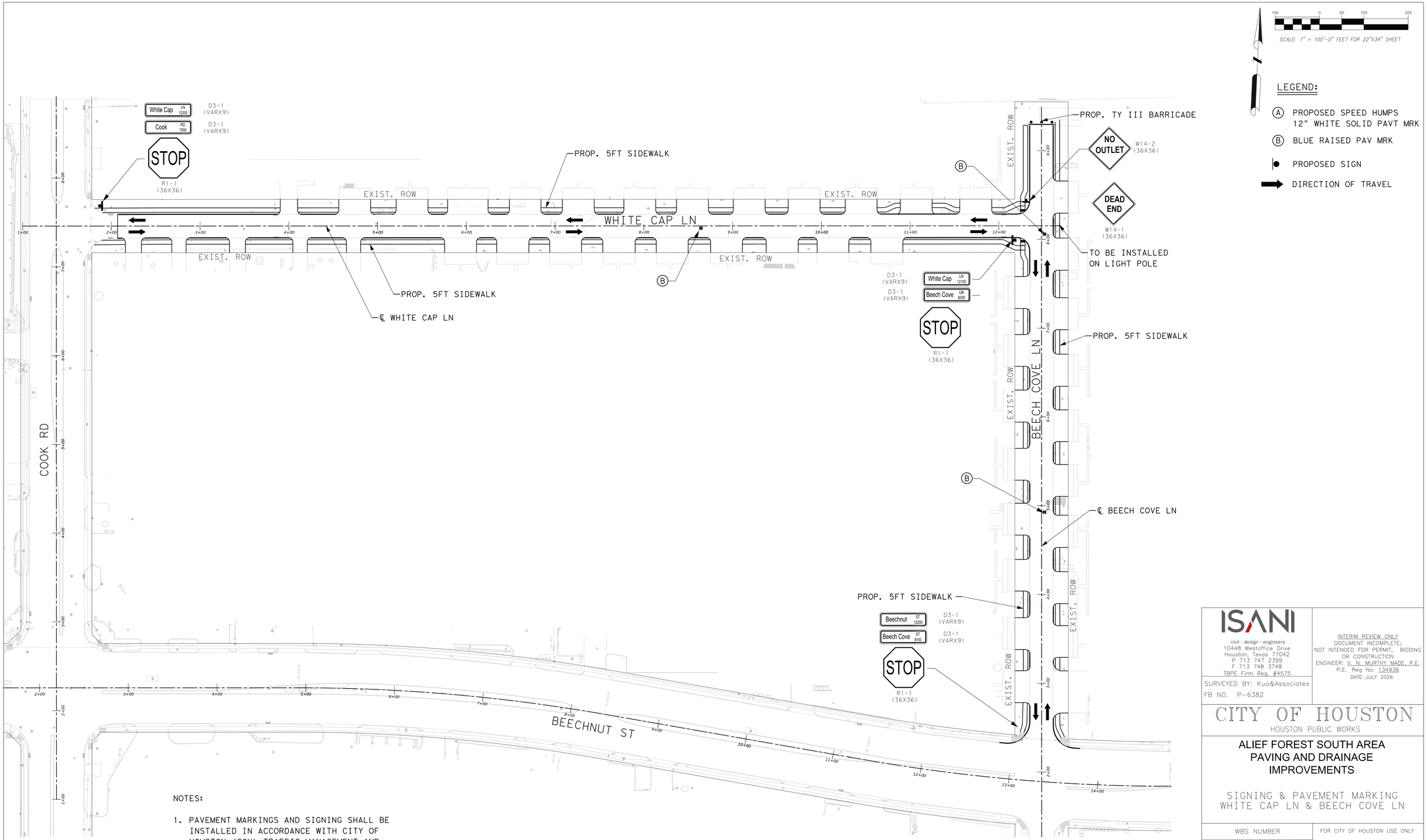
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ALIEF FOREST SOUTH AREA
PAVING AND DRAINAGE
IMPROVEMENTS

DRIVEWAY SUMMARY TABLE
SHEET 9 of 9

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 186 OF 369	

FILE:P:\ACTIVE\18PV97 - 2024 Update\Ph II\Working\Transportation\Sheets\Driveway Summary Table\97_Driveway Summary Table.dgn
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SCALE: 1" = 100'-0" FEET FOR 22"X34" SHEET

LEGEND:

- (A) PROPOSED SPEED HUMPS 12" WHITE SOLID PAVT MRK
- (B) BLUE RAISED PAV MRK
- PROPOSED SIGN
- DIRECTION OF TRAVEL

NOTES:

1. PAVEMENT MARKINGS AND SIGNING SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF HOUSTON (COH) TRAFFIC MANAGEMENT AND MAINTAINANCE DIVISION'S PAVEMENT MARKINGS AND SIGNING DETAILS (3700 SERIES), TMUTCD STANDARDS AND SPECIFICATIONS.
2. PERMANENT PAVEMENT MARKINGS SHALL BE THERMOPLASTIC MATERIAL PER THE CITY OF HOUSTON SPECIFICATIONS.
3. SEE SHEETS 8-15 FOR TYPICAL DIMENSIONS AND DETAILS.

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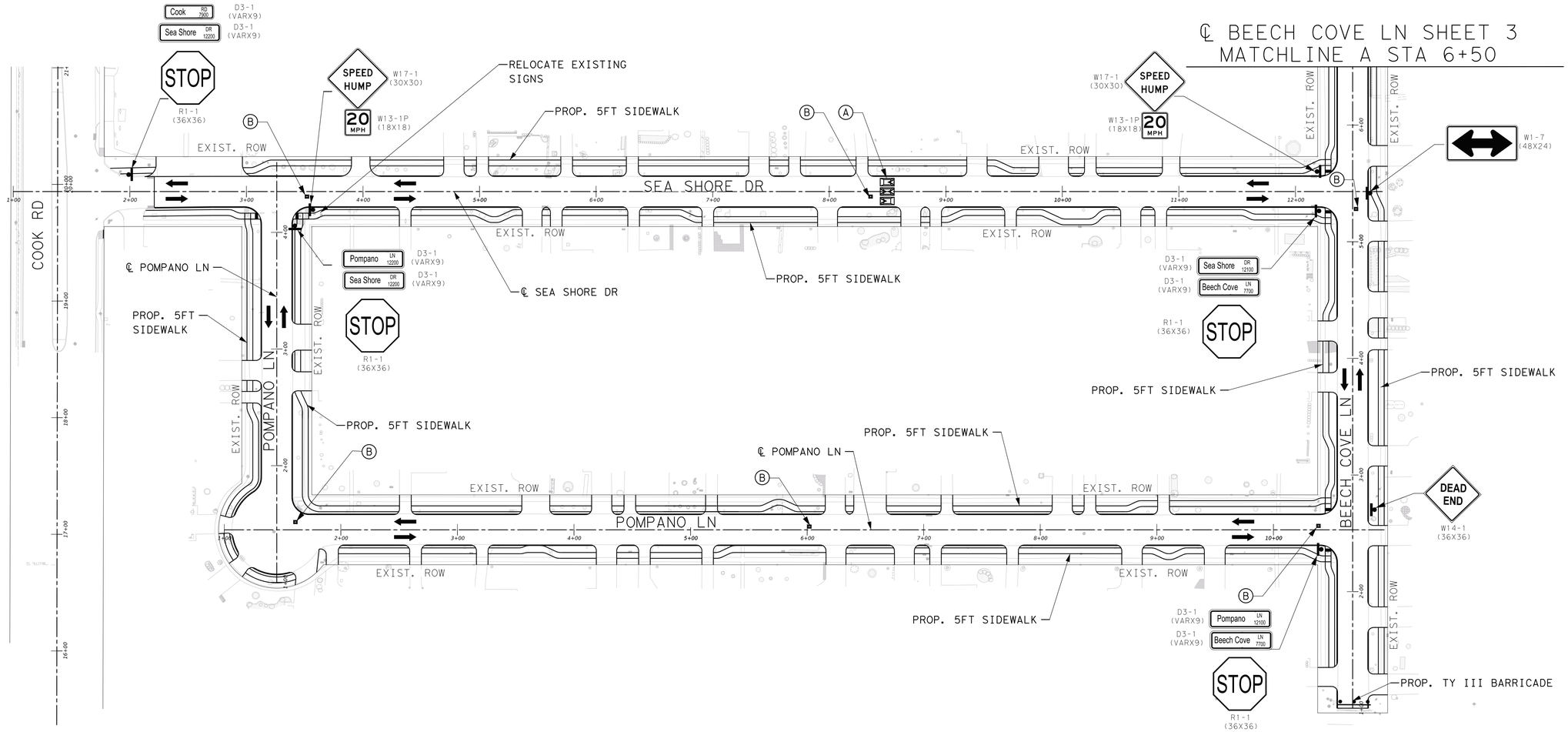
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HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

SIGNING & PAVEMENT MARKING WHITE CAP LN & BEECH COVE LN

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=100'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 187 OF 369	

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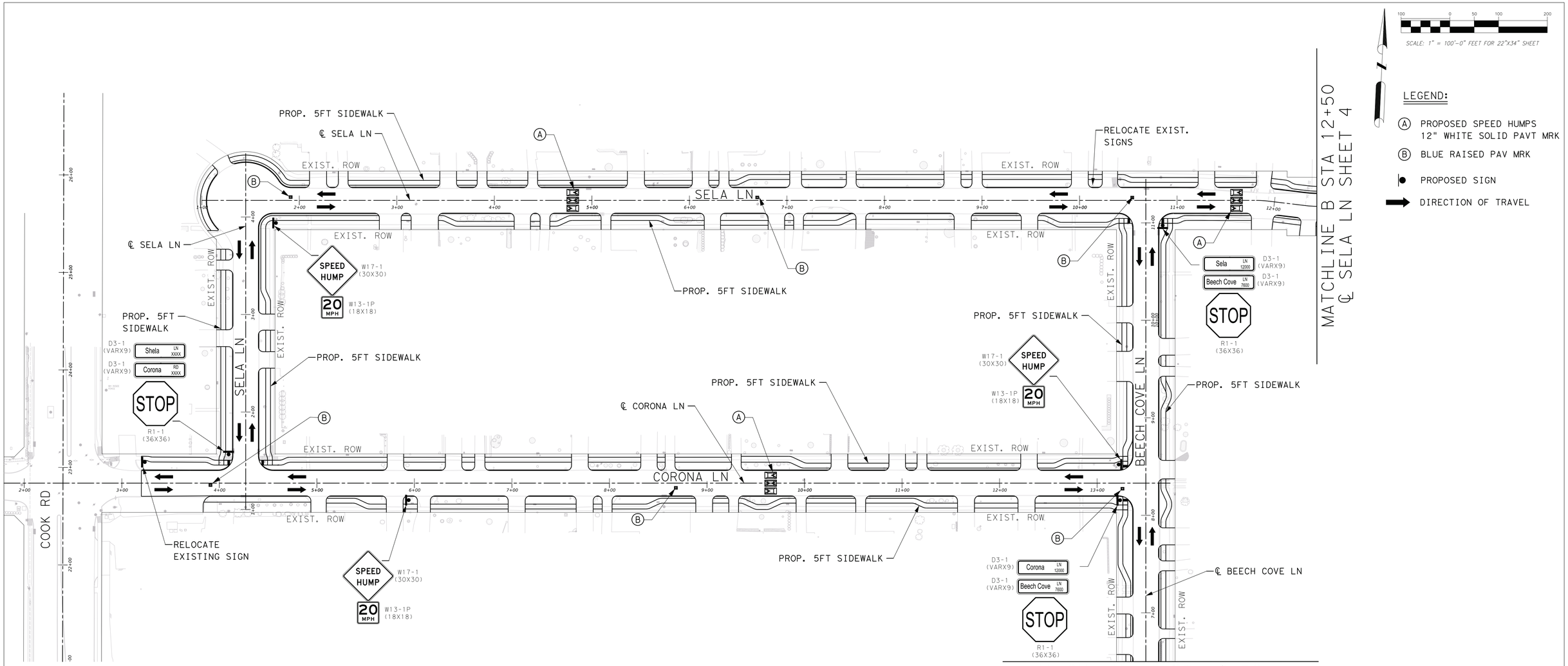
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ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

SIGNING & PAVEMENT MARKING
POMPANO LN
SEA SHORE DR & BEECH COVE LN

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=100'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 188 OF 369	

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NOTES:

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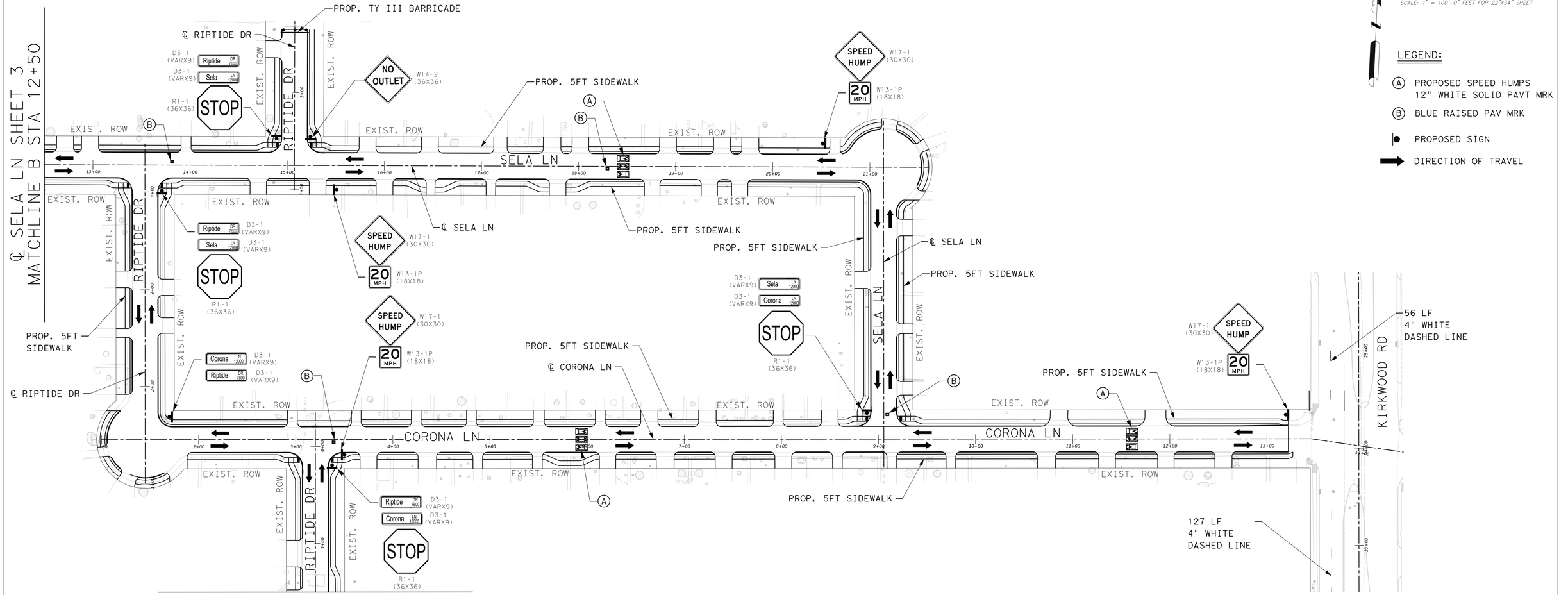
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ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

SIGNING & PAVEMENT MARKING CORONA LN SELA LN & BEECH COVE LN

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=100'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 189 OF 369	

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DATE:8/7/2026



SCALE: 1" = 100'-0" FEET FOR 22"X34" SHEET

LEGEND:

- (A) PROPOSED SPEED HUMPS 12" WHITE SOLID PAVT MRK
- (B) BLUE RAISED PAV MRK
- ● PROPOSED SIGN
- ➡ DIRECTION OF TRAVEL

NOTES:

1. PAVEMENT MARKINGS AND SIGNING SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF HOUSTON (COH) TRAFFIC MANAGEMENT AND MAINTAINANCE DIVISION'S PAVEMENT MARKINGS AND SIGNING DETAILS (3700 SERIES), TMUTCD STANDARDS AND SPECIFICATIONS.
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3. SEE SHEETS 08-15 FOR TYPICAL DIMENSIONS AND DETAILS.

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

SIGNING & PAVEMENT MARKING
RIPTIDE DR
SELA LN & CORONA LN

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=100'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 190 OF 369	

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℄ RIPTIDE DR SHEET 4
MATCHLINE C STA 2+50

SCALE: 1" = 100'-0" FEET FOR 22"X34" SHEET

LEGEND:
- (A) PROPOSED SPEED HUMPS 12" WHITE SOLID PAVT MRK
- (B) BLUE RAISED PAV MRK
- PROPOSED SIGN
- DIRECTION OF TRAVEL

℄ RIPTIDE DR
PROP. 5FT SIDEWALK
EXIST. ROW
RIPTIDE DR
Riptide DR 7600
Sea Shore DR 12000
D3-1 (VARX9)
STOP R1-1 (36X36)
SPEED HUMP W17-1 (30X30)
20 MPH W13-1P (18X18)
RELOCATE EXISTING SIGN
W1-7 (48X24)
SEA SHORE DR
℄ SEA SHORE DR
PROP. 5FT SIDEWALK
Riptide DR 7700
Sea Shore DR 12000
Riptide DR 7700
Pompano LN 7900
℄ POMPANO LN
POMPANO LN
677 LF 4" WHITE DASHED LINE
℄ RIPTIDE DR
PROP. 5FT SIDEWALK
Riptide DR 7800
Sharpcrest LN 12000
R1-3P (18X6) ALL WAY
SHARPCREST LN
PROP. 5FT SIDEWALK
RELOCATE EXISTING SIGN
℄ SHARPCREST LN
S KIRKWOOD RD

MATCHLINE D STA 14+00
℄ RIPTIDE DR SHEET 6

NOTES:

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2. PERMANENT PAVEMENT MARKINGS SHALL BE THERMOPLASTIC MATERIAL PER THE CITY OF HOUSTON SPECIFICATIONS.
3. SEE SHEETS 08-15 FOR TYPICAL DIMENSIONS AND DETAILS.

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

SIGNING & PAVEMENT MARKING SEA SHORE DR & RIPTIDE DR POMPANO LN & SHARPCREST LN

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=100'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 191 OF 369	

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℄ RIPTIDE DR SHEET 5
MATCHLINE D STA 14+00

MATCHLINE E STA 10+000
℄ RIPTIDE DR SHEET 6

SCALE: 1" = 100'-0" FEET FOR 22"X34" SHEET

LEGEND:

- (A) PROPOSED SPEED HUMPS 12" WHITE SOLID PAVT MRK
- (B) BLUE RAISED PAV MRK
- PROPOSED SIGN
- DIRECTION OF TRAVEL

RIPTIDE DR
HENDON LN
LANGDON LN
AQUA LN
SHINER LN
S KIRKWOOD D
EXIST. ROW
PROP. 5FT SIDEWALK
℄ RIPTIDE DR
℄ HENDON LN
℄ LANGDON LN
℄ AQUA LN
℄ SHINER LN
STOP R1-1 (36X36)
SPEED HUMP W17-1 (30X30)
20 MPH W13-1P (18X18)
Hendon LN 12000 D3-1 (VARX9)
Riptide DR 7900 D3-1 (VARX9)
Langdon LN 12000 D3-1 (VARX9)
Aqua LN 8000 D3-1 (VARX9)
Langdon LN 11900 D3-1 (VARX9)
Shiner LN 8000 D3-1 (VARX9)
Langdon LN 11900 D3-1 (VARX9)
103 LF 4" WHITE DASHED LINE
202 LF 4" WHITE DASHED LINE
REPLACE EXISTING SIGNS
S1-1 (36X36)
S16-9P (24X12) AHEAD
NO OUTLET CW14-2 (36X36)
W14-2 (36X36)
W1-7 (48X24)

NOTES:

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3. SEE SHEETS 08-15 FOR TYPICAL DIMENSIONS AND DETAILS.

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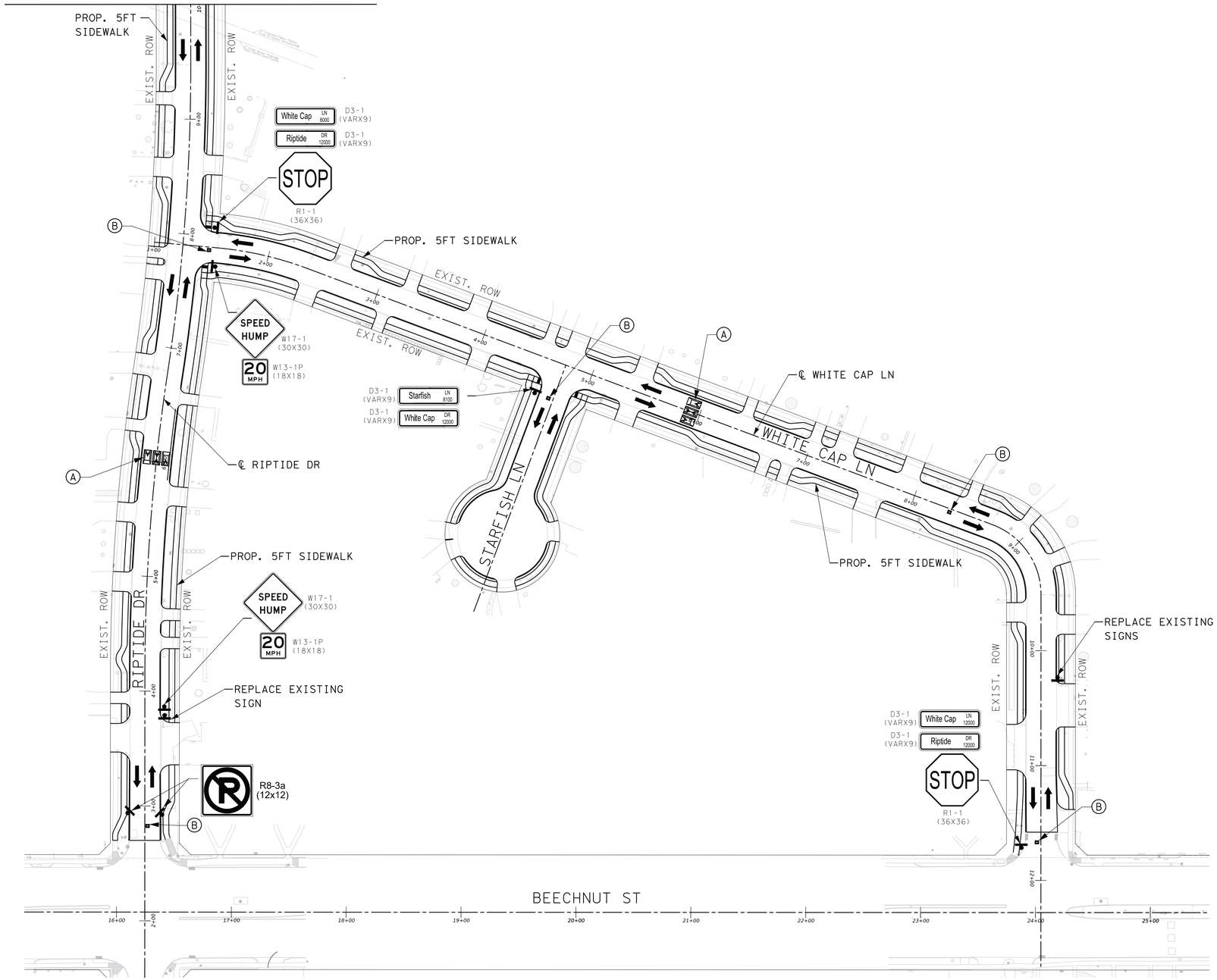
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SIGNING & PAVEMENT MARKING
HENDON LN & RIPTIDE DR
LANGDON LN AQUA LN
& SHINER LN

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
1"=100'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 192 OF 369	

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℄ RIPTIDE DR SHEET 6
MATCHLINE E STA 10+00



100 0 50 100 200

SCALE: 1" = 100'-0" FEET FOR 22"X34" SHEET

LEGEND:

- (A) PROPOSED SPEED HUMPS 12" WHITE SOLID PAVT MRK
- (B) BLUE RAISED PAV MRK
- PROPOSED SIGN
- DIRECTION OF TRAVEL

NOTES:

1. PAVEMENT MARKINGS AND SIGNING SHALL BE INSTALLED IN ACCORDANCE WITH CITY OF HOUSTON (COH) TRAFFIC MANAGEMENT AND MAINTAINANCE DIVISION'S PAVEMENT MARKINGS AND SIGNING DETAILS (3700 SERIES), TMUTCD STANDARDS AND SPECIFICATIONS.
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA
PAVING AND DRAINAGE
IMPROVEMENTS

SIGNING & PAVEMENT MARKING
RIPTIDE DR & WHITE CAP LN

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=100'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 193 OF 369	

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DESCRIPTION AND APPLICATION OF PAVEMENT MARKING LINES				
LINE SERIES	COLOR	DESCRIPTION	WIDTH (INCHES)	TYPICAL APPLICATIONS
WB	WHITE	BROKEN (10' STRIPE W/30' GAP)	4"	LANE LINES BETWEEN TRAVEL LANES IN THE SAME DIRECTION WHERE CHANGING OF LANES IS PERMITTED.
WS	WHITE	SOLID	4"	EDGE LINES TO DELINEATE THE RIGHT EDGE OF THE ROADWAY.
			6"	LEFT EDGE OF BICYCLE LANE AND LANE LINES BETWEEN TRAVEL LANES IN THE SAME DIRECTION WHERE CHANGING OF LANES IS DISCOURAGED.
			12"	PERPENDICULAR CROSSWALK LINES.
			24"	STOP BARS AT INTERSECTIONS (SIGNALIZED AND UNSIGNALIZED).
				HATCHING AT HIGH VISIBILITY CROSSWALKS.
			12", 24"	DIAGONAL HATCHING USED IN GORES BETWEEN SAME DIRECTION OF TRAVEL LANES.
WG	WHITE	GUIDE (2' STRIPE W/6' GAP)	6"	GUIDE LINES THROUGH INTERSECTIONS.
				TAPER LINES FOR TURN LANES.
				GUIDE LINES FOR BICYCLE LANES.
YS	YELLOW	SOLID	4"	EDGE LINES TO DELINEATE THE LEFT EDGE OF A DIVIDED ROADWAY, A ONE-WAY ROAD, OR RAMP.
			6"	BIDIRECTIONAL BICYCLE LANE PAVEMENT MARKING.
			12", 24"	DIAGONAL HATCHING USED IN GORES BETWEEN OPPOSING DIRECTION OF TRAVEL LANES.
YDS	YELLOW	DOUBLE SOLID	4" – (4") – 4" (GAP)	CENTERLINE THAT SEPARATES OPPOSING TRAVEL LANES AND DELINEATION OF MEDIAN ISLANDS.
YDB	YELLOW	DOUBLE BROKEN	4" – (4") – 4" (GAP)	DEFINES THE EDGES OF CENTER REVERSIBLE LANES THAT ARE USED AS TWLTLS DURING INTERMITTENT PERIODS.
YB	YELLOW	BROKEN (10' STRIPE W/30' GAP)	4"	SEPARATES TRAVEL LANES IN OPPOSITE DIRECTIONS WHERE PASSING IS PERMITTED IN BOTH DIRECTIONS OF TRAVEL.
YB (BIKE)	YELLOW	BROKEN (3' STRIPE W/9' GAP)	4"	SEPARATES BICYCLE TRAVEL LANES IN OPPOSITE DIRECTIONS WHERE PASSING IS PERMITTED IN BOTH DIRECTIONS OF TRAVEL.
YSB	YELLOW	SOLID & BROKEN BROKEN (10' STRIPE W/30' GAP)	4" – (4") – 4" (GAP)	SEPARATES TRAVEL LANES IN OPPOSITE DIRECTIONS WHERE PASSING IS PERMITTED IN ONE DIRECTION AND PROHIBITED IN THE OPPOSITE DIRECTION.
				USED FOR EDGE OF TWO-WAY LEFT TURN LANES (TWLTL).
BICYCLE GREEN	GREEN	SOLID COLORED PAVEMENT	VARIES	PED/BIKE CROSSING
				VEHICLE / BIKE/ CONFLICT AREA
YIELD LINE	WHITE	TRIANGLE	16" x 24"	MID-BLOCK CROSSING.

DESCRIPTION AND APPLICATION OF REFLECTIVE RAISED PAVEMENT MARKERS (RPM)			
RRPM TYPES	COLOR	COH SPEC. SEC. 02764 EQUIVALENT	DESCRIPTION
C	CLEAR	TYPE I-C	APPROACH FACE THAT REFLECTS WHITE LIGHT, AND THE OTHER SIDE DOES NOT REFLECT.
R	CLEAR & RED	TYPE II-C-R	APPROACH FACE THAT REFLECTS WHITE LIGHT, AND THE OTHER SIDE REFLECTS RED LIGHT.
A	AMBER & AMBER	TYPE II-A-A	APPROACH FACE AND THE OTHER SIDE BOTH REFLECT AMBER LIGHT.

LINE STYLE DESIGNATION : YSB4 – A40/A40

- COLOR
- PATTERN
- WIDTH OF STRIPE
- RPM SPACING
- RPM TYPE
- RPM SPACING
- RPM TYPE

GENERAL PAVEMENT MARKING NOTES:

1. PRIOR TO START OF CONSTRUCTION, ALL EXISTING PAVEMENT MARKINGS WITHIN THE AREA OF CONSTRUCTION SHALL BE INVENTORIED AND DOCUMENTED JOINTLY BY THE CITY INSPECTOR AND THE CONTRACTOR. THIS DOCUMENT WILL BE JOINTLY SIGNED BY BOTH PARTIES REFLECTING ALL EXISTING PAVEMENT MARKINGS AND LANE CONFIGURATIONS WILL BE DUPLICATED AGAIN. THIS REVIEW CAN BE DONE IN CONJUNCTION WITH SIGN INVENTORY. THE CONTRACTOR IS HELD ACCOUNTABLE FOR EXISTING AND TEMPORARY CONSTRUCTION PAVEMENT MARKINGS THROUGHOUT THE PROJECT AND AT THE PROJECT'S COMPLETION.
2. ALL PAVEMENT MARKINGS SHALL CONFORM TO CITY OF HOUSTON STANDARDS AND SPECIFICATIONS AND GENERAL GUIDELINES OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD).
3. THE PERMANENT PAVEMENT MARKINGS MAY BE MODIFIED AS DIRECTED BY THE CITY TRAFFIC ENGINEER.
4. THE DESIGN SPEED FOR THE ROAD IS: _____. THE POSTED SPEED LIMIT IS: _____.
5. ALL LANE DIMENSIONS ARE FROM CENTER OF LANE LINE, CENTER OF DOUBLE LANE LINE, FACE OF CURB, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
6. THE PAVEMENT MARKING DRAWINGS ARE SCHEMATIC ONLY. THE CONTRACTOR SHALL FOLLOW ALL DIMENSIONS, DETAILS, AND STANDARDS WHEN INSTALLING PAVEMENT MARKINGS AND SYMBOLS.
7. THE FINAL LONGITUDINAL STRIPINGS SHALL BE 60 MIL (0.060") THICK HOT-SPRAYED THERMOPLASTIC PLACED OVER THE TEMPORARY STRIPING WITHIN 14 TO 30 CALENDAR DAYS AFTER COMPLETION OF THE FINAL PAVEMENT SURFACE, OR AS DIRECTED BY THE CITY TRAFFIC ENGINEER. ALL OTHER PAVEMENT MARKINGS SHALL BE APPLIED AT THE SAME TIME. TEMPORARY STRIPING SHALL BE WATER BASED PAINT.
8. ALL FINAL TRANSVERSE MARKINGS SHALL BE 90 MIL (0.090") HOT-SPRAYED THERMOPLASTIC. ALL PAVEMENT ARROWS AND LEGENDS SHALL ALSO BE 90 MIL (0.090") HOT-SPRAYED THERMOPLASTIC. PREFORMED THERMOPLASTIC APPLICATIONS MAY BE USED IF ONLY APPROVED BY THE CITY TRAFFIC ENGINEER.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF PAVEMENT MARKINGS OF FINAL SURFACE COURSE FOLLOWING CONTROL POINTS THAT HAVE BEEN SET NO MORE THAN 50 FEET APART ALONG THE LINES TO BE IMPLEMENTED. IN TANGENT SECTIONS OF A ROAD WHERE THE PAVEMENT MARKING PATTERN DOES NOT CHANGE, CONTROL POINTS CAN BE SET AT 200 FEET SPACING. THE LAYOUT AND INSPECTION OF ALL PAVEMENT MARKINGS SHALL BE APPROVED BY CITY OF HOUSTON REPRESENTATIVE PRIOR TO THE APPLICATION OF MATERIALS.
10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE FINAL SURFACE COURSE IS PLACED SO THAT THE STRIPING IS OFFSET NO MORE THAN ONE FOOT CLEAR OF THE CONSTRUCTION JOINT, UNLESS OTHERWISE DIRECTED BY THE CITY TRAFFIC ENGINEER.
11. ALL RAISED PAVEMENT MARKERS (RPMS) SHALL BE INSTALLED SO THAT THE REFLECTIVE FACE OF EACH MARKER IS FACING THE DIRECTION OF TRAFFIC AND IS PERPENDICULAR TO THE DIRECTION OF TRAFFIC FLOW. TYPE C PAVEMENT MARKERS SHALL BE INSTALLED SO THAT THE CLEAR FACE OF EACH MARKER IS FACING THE APPROACHING TRAFFIC FLOW AND PERPENDICULAR TO THE DIRECTION OF TRAFFIC FLOW.
12. ALL REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED IN ACCORDANCE TO CITY OF HOUSTON STANDARD SPECIFICATION 02762. APPLYING OVER EXISTING PAVEMENT MARKINGS DOES NOT CONSTITUTE AS APPROVED OBLITERATION METHOD.
13. THE ENGINEER OF RECORD SHALL BE REQUIRED TO PRODUCE AS-BUILT OF PAVEMENT MARKING PLANS WITHIN 30 DAYS AFTER COMPLETION OF PAVEMENT MARKING IMPLEMENTATION.
14. BLUE RPMS MAY BE PLACED ADJACENT TO FIRE HYDRANTS WITH THE APPROVAL OF THE CITY TRAFFIC ENGINEER.
15. FOR ALL CONSTRUCTION, ALL PAVEMENT MARKINGS AND SIGNING SHALL BE INSTALLED AND SHALL BE PAID BY THE PROJECT OWNER/DEVELOPER.
16. FINAL INSPECTION AND ACCEPTANCE OF PAVEMENT MARKINGS SHALL BE PERFORMED BY TRANSPORTATION & DRAINAGE OPERATION REPRESENTATIVE (713-803-3054).

APPROVED BY:	APPROVED BY:
Docusigned by: Sukat Kanwar 8FF8BDDA4F9478...	Docusigned by: Haleng Nguyen 9A2EF0FDA7884CD...
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY: Docusigned by: Carl Haddock 4A5CA1937B0A46...	
DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV-27-2023	DWG NO: 02760-01

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

PAVEMENT MARKINGS GENERAL NOTES AND LEGENDS

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ENGINEER: V. N. MURTHY MADE, P.E
P.E. Reg No: 134936
DATE: NOVEMBER 2025

SURVEYED BY: Kuo&Associates
FB NO. P-XXXX

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

PAVING AND DRAINAGE IMPROVEMENTS IN ALIEF FOREST SOUTH AREA

PAVEMENT MARKING GENERAL NOTES AND LEGENDS

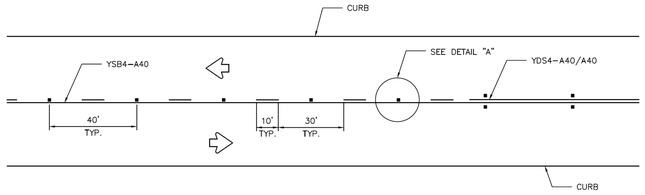
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CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 194 OF 369	

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WARRANTY OF ANY KIND IS MADE BY THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER. THE CITY OF HOUSTON SHALL NOT BE HELD LIABLE FOR ANY DAMAGES RESULTING FROM THE USE OF THIS STANDARD.

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DATE:5/23/2026

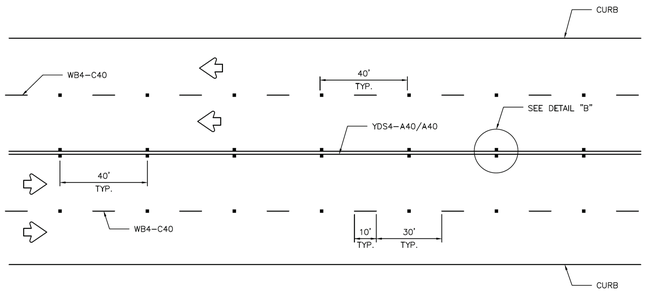
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CENTERLINE & FOR ALL TWO LANE STREETS WITH PASSING ZONE

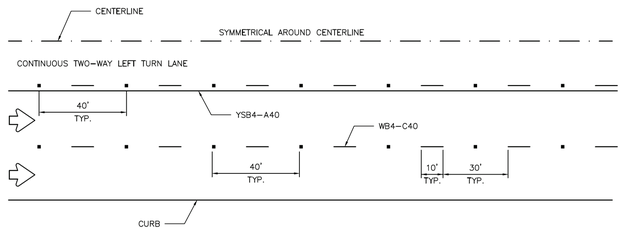


CENTERLINE & LANE LINES FOR FOUR LANE TWO–WAY STREETS

RRPM TYPE C, CLEAR FACE TOWARD NORMAL TRAFFIC, SHALL BE PLACED ON 40–FOOT CENTERS.

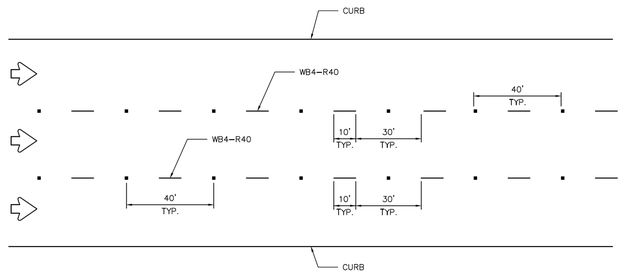


CENTERLINE & LANE LINES FOR TWO–WAY LEFT TURN LANE



LANE LINES FOR ONE–WAY MULTILANE STREET

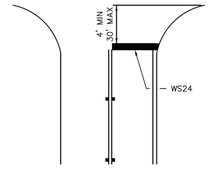
RRPM TYPE R SHALL HAVE CLEAR FACE TOWARD NORMAL TRAFFIC AND RED FACE TOWARD WRONG–WAY TRAFFIC.



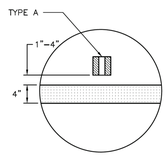
GENERAL NOTES:

1. EDGELINE ADJACENT TO CURB AND GUTTER IS NOT REQUIRED IN ALL CASES, HOWEVER SHALL BE PLACED AS DIRECTED BY CITY TRAFFIC ENGINEER.
2. THE TRAVELED WAY INCLUDES ONLY THAT PORTION OF THE ROADWAY USED FOR VEHICULAR TRAVEL AND NOT THE PARKING LANES, SIDEWALKS, BERMS AND SHOULDERS. THE TRAVELED WAYS SHALL BE MEASURED FROM THE INSIDE OF EDGELINE TO INSIDE OF EDGELINE OF A TWO LANE ROADWAY.
3. ALL RAISED PAVEMENT MARKERS PLACED IN BROKEN LINES SHALL BE PLACED IN LINE WITH AND MIDWAY BETWEEN THE STRIPES.
4. ON CONCRETE PAVEMENTS THE RAISED PAVEMENT MARKERS SHOULD BE PLACED TO ONE SIDE OF THE LONGITUDINAL JOINTS.
5. ALL PAVEMENT MARKING MATERIAL SHALL MEET THE REQUIRED MATERIAL SPECIFICATIONS AS SPECIFIED BY CITY OF HOUSTON STANDARD SPECIFICATIONS.

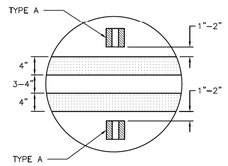
GUIDE FOR PLACEMENT OF STOP LINES & CENTERLINE



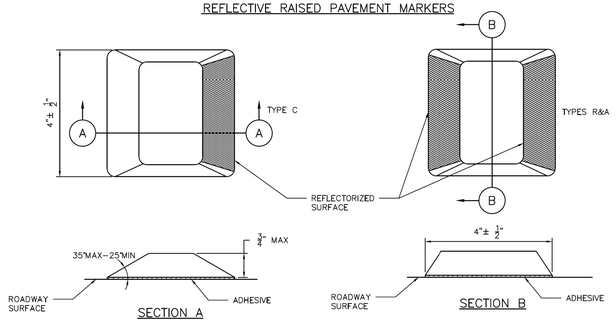
DETAIL "A"



DETAIL "B"



REFLECTIVE RAISED PAVEMENT MARKERS



APPROVED BY:	APPROVED BY:
Docusigned by: Sulad Kunwar	Docusigned by: HSIANG NGUYEN
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY: Docusigned by: Carl Haddock	
DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV–27–2023	DWG NO: 02760–05

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

STANDARD PAVEMENT MARKINGS WITH REFLECTIVE RAISED PAVEMENT MARKERS FOR POSITION GUIDANCE

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SURVEYED BY: Kuo&Associates
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ENGINEER: V. N. MURTHY MADE, P.E
P.E. Reg No: 134936
DATE: NOVEMBER 2025

CITY OF HOUSTON
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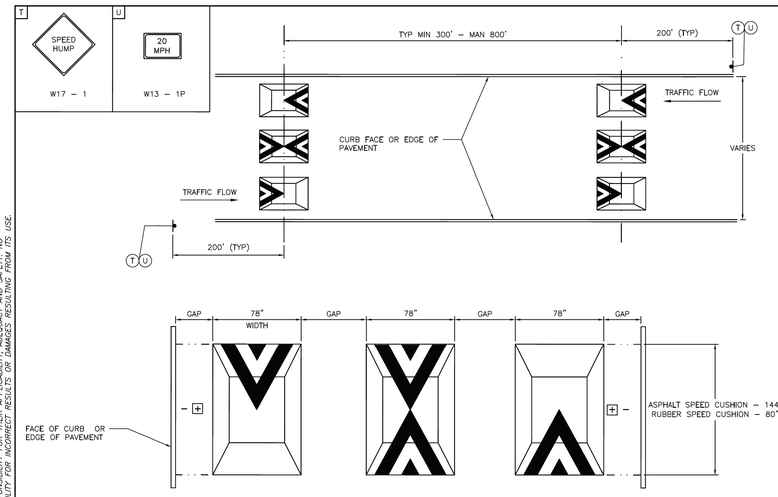
PAVING AND DRAINAGE IMPROVEMENTS IN ALIEF FOREST SOUTH AREA

STANDARD PAVEMENT MARKINGS WITH REFLECTIVE RAISED PAVEMENT MARKERS FOR POSITION GUIDANCE

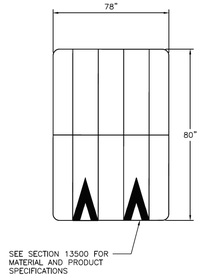
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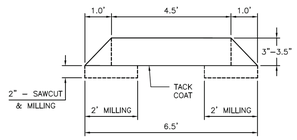


RUBBER SPEED CUSHION

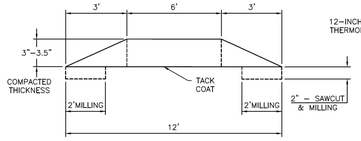


INSTALL PER MANUFACTURER'S SPECIFICATIONS

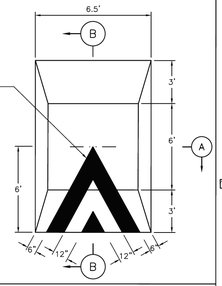
ASPHALT SPEED CUSHION – INSTALLATION DETAILS



SECTION A – A

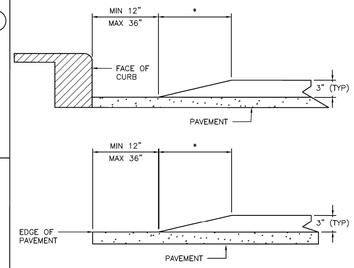


SECTION B – B



TYPICAL SPEED CUSHIONS ARRANGEMENT FOR A GIVEN PAVEMENT WIDTH

PAVEMENT WIDTH (FT)	No OF CUSHIONS	GAP (IN)	CUSHION (IN)	GAP (IN)	CUSHION (IN)	GAP (IN)	CUSHION (IN)	GAP (IN)	CUSHION (IN)	GAP (IN)	CUSHION (IN)	GAP (IN)
16	2	12	78	12	78	12						
18	2	20	78	20	78	20						
20	2	30	78	24	78	30						
22	2	36	78	36	78	36						
24	3	15	78	12	78	12	78	15				
26	3	20	78	19	78	19	78	20				
28	3	27	78	24	78	24	78	27				
30	3	31	78	32	78	32	78	31				
32	4	18	78	12	78	12	78	12	78	18		
34	4	21	78	18	78	18	78	18	78	21		
36	4	24	78	24	78	24	78	24	78	24		
38	4	30	78	28	78	28	78	28	78	30		
40	4	33	78	34	78	34	78	34	78	33		
42	5	19	78	19	78	19	78	19	78	19	78	19
44	5	23	78	23	78	23	78	23	78	23	78	23



* RUBBER CUSHION – 12" TAPER, ASPHALT CUSHION – 12" TAPER.

NOTES:

1. SPEED CUSHIONS AND ASSOCIATED SIGNS AND PAVEMENT MARKINGS WILL BE CONSTRUCTED AT LOCATIONS DESIGNED BY TRANSPORTATION AND DRAINAGE OPERATIONS (TDO) OR PER PLANS APPROVED BY TDO.
2. CONTRACTOR SHALL CONTACT THE CONSTRUCTION COORDINATOR BEFORE ANY STREET IS TEMPORARILY CLOSED FOR CONSTRUCTION.
3. THE TYPE OF SPEED CUSHION AND DISTANCE BETWEEN EACH CUSHION WILL BE DETERMINED BY TDO.
4. NO PART OF A SPEED CUSHION SHALL BE LOCATED IN FRONT OF DRIVEWAY APPROACH; RATHER THERE SHOULD BE A MINIMUM OF 6 FEET FROM THE EDGE OF A DRIVEWAY, WHEN PRACTICAL.
5. SPEED CUSHIONS SHOULD BE PLACED AS CLOSE AS POSSIBLE TO THE PROPERTY LINES INSTEAD OF MID – LOT LOCATION, WHERE PRACTICAL.
6. SPEED CUSHIONS SHOULD BE INSTALLED AT A RIGHT ANGLE TO THE CENTERLINE TANGENT OF THE ROADWAY.
7. TRAFFIC CONTROL CONSISTING OF SIGNS SHALL BE PROVIDED TO ADVISE ROADWAY USER OF SPEED CUSHIONS PRESENT. TRAFFIC SIGNS, AND PAVEMENT MARKINGS SHALL CONFORM TO THE LATEST REQUIREMENTS OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD).
8. ALL SIGNS AND PAVEMENT MARKINGS WILL BE PROVIDED AND INSTALLED BY THE CONTRACTOR.
9. CONTRACTOR SHALL NOT OPEN SPEED CUSHIONS TO TRAFFIC UNTIL ALL REQUIRED WARNING SIGNS AND PAVEMENT MARKINGS ARE COMPLETED.
10. CONTRACTOR WILL MAINTAIN TEMPORARY MARKINGS UNTIL PERMANENT MARKINGS ARE INSTALLED.
11. CONTRACTOR SHALL COMPLETE THE CUSHION INSTALLATION TO FORM ONE COMPLETE HUMP BEFORE LEAVING THE JOB SITE.
12. CONTRACTOR SHALL WORK ONE HALF OF THE STREET AT A TIME AND MAINTAIN TWO – WAY TRAFFIC WITH CERTIFIED FLAGGER.
13. ASPHALT SPEED CUSHION SHALL BE CONSTRUCTED WITH TYPE D ASPHALT MIX PER CITY OF HOUSTON SPECIFICATIONS; A TACK COAT SHALL BE APPLIED PRIOR TO APPLICATION OF PAVEMENT MATERIAL.
14. ASPHALT SPEED CUSHIONS SHALL BE COMPACTED PER CITY OF HOUSTON SPECIFICATIONS AND SHAPE ACCORDING TO INSTALLATION DETAILS. COMPACTION SHALL REQUIRE UTILIZATION OF ALL NECESSARY SIZES AND TYPES OF ROLLERS TO ACCOMPLISH PROPER COMPACTION AND SHAPE.
15. ASPHALT SPEED CUSHIONS ARE TO BE CONSTRUCTED BETWEEN 3" – 3 ½" IN HEIGHT.
16. CONTRACTOR SHALL NOTIFY GARY DRABEK (832–395–2997) A MINIMUM OF TWO BUSINESS DAYS IN ADVANCE OF THE INSTALLATION OF SPEED CUSHIONS.

APPROVED BY:	APPROVED BY:
Docusigned by: Sukat Kanwar 9E7B5D3B4F1A4F3...	Docusigned by: kristine matthews 7E6A3B2C1D4F5A6...
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY: Docusigned by: Carl Haddock 4A5C3E7F1B2D6C8...	
DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV–27–2023	DWG NO: 13501–01

CITY OF HOUSTON
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SPEED CUSHIONS ARRANGEMENT AND INSTALLATION

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ENGINEER: V. N. MURTHY MADE, P.E
P.E. Reg No: 134936
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PAVING AND DRAINAGE IMPROVEMENTS IN ALIEF FOREST SOUTH AREA

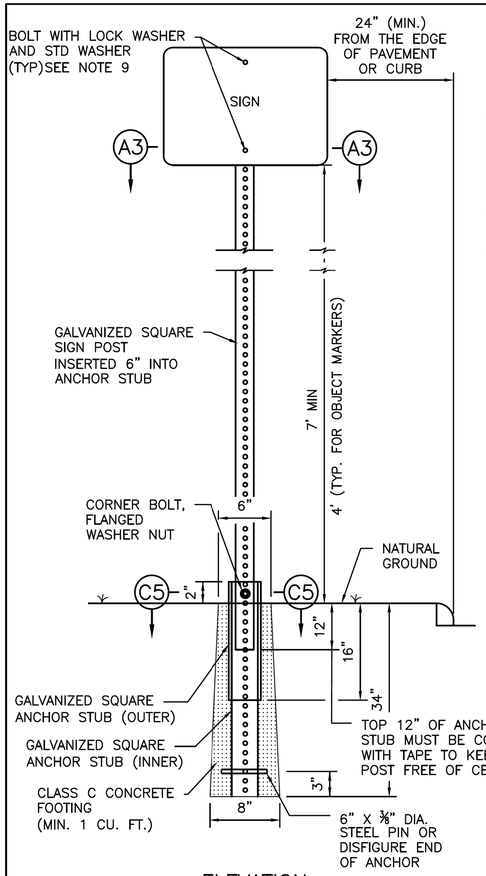
SPEED CUSHIONS ARRANGEMENT AND INSTALLATION

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DATE:5/23/2026

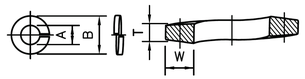
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ELEVATION

TYPICAL GROUND SIGN INSTALLATION
PERFORATED SQUARE METAL TUBING

TABLE A	
GALVANIZED SQUARE SIGN POST (PERFORATED)	1–3/4"x–1–3/4" (14 GAUGE)
GALVANIZED SQUARE ANCHOR STUB (PREFORATAED) (INNER)	2"x2"x36" (14 GAUGE)
GALVANIZED SQUARE ANCHOR STUB (PERFORATED) (OUTER)	2 1/4" x 2 1/4" x 18" (14 GAUGE)



NOMINAL WASHER SIZE	A INSIDE DIAMETER MAX	A INSIDE DIAMETER MIN	B OUTSIDE DIAMETER MAX	T MEAN SECTION (THICKNESS)	W SECTION WIDTH
5/16"	0.332"	0.314"	0.583"	0.078"	0.125"

DIMENSIONS: ASME B18.21.1

MATERIAL: ALLOY STEEL PER ASME B18.21.1

FINISH: MECHANICAL ZINC PER ASTM B695, CLASS 5, TYPE 2 (YELLOW)

5/16" SPLIT LOCK WASHER, HIGH ALLOY MECHANICAL DEPOSITED YELLOW SINK



SIZE	C THICKNESS MAX	C THICKNESS MIN	A WIDTH ACROSS FLATS MAX	A WIDTH ACROSS FLATS MIN	D HEX HEIGHT MIN
0.313"	0.359"	0.329"	0.502"	0.489"	0.250"

DIMENSIONS: ASME B18.16.6

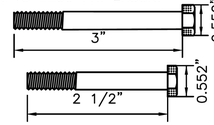
MATERIAL: CARBON STEEL, GRADE 8 PER ASME B18.16.6, NYLON ⅝

THREAD REQUIREMENTS: ASME B1.1 UNC & UNF CLASS 2B

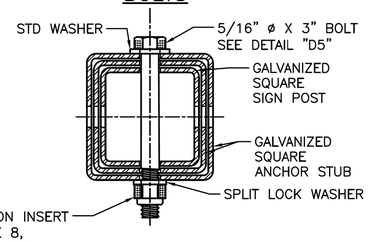
HEX NYLON INSERT LOCKNUTS (NE), GRADE 8, YELLOW ZINC PLATED

NOTES:

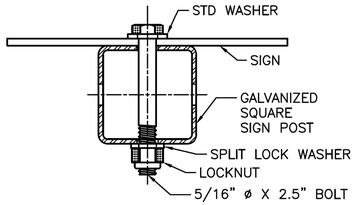
1. THE EXISTING SIGNS LOCATED ON PUBLIC CONSTRUCTION SITE ARE THE PROPERTY OF THE CITY OF HOUSTON. THROUGHOUT THE PERIOD OF THE CONTRACT, THE CONTRACTOR SHALL PROTECT THESE SIGNS SUCH THAT THEY ARE NOT DAMAGED IN THE COURSE OF CONSTRUCTION ACTIVITY. SUCH PROTECTION SHALL INCLUDE THE PERIOD AFTER SIGNS ARE REMOVED FROM INSTALLATION AND STORED BY THE CONTRACTOR OR DELIVERED TO THE TRAFFIC OPERATIONS CENTER (2200 PATTERSON). THE GENERAL TRAFFIC SUPERINTENDENT (832–395–6771) MUST BE NOTIFIED 48 HOURS IN ADVANCE PRIOR TO DELIVERY.
2. AFTER SIGNS ARE REMOVED FROM INSTALLATION AND ARE BEING STORED BY THE CONTRACTOR, THE CONTRACTOR SHALL CONTACT THE TRAFFIC OPERATIONS DIVISION OF HOUSTON PUBLIC WORKS (832–395–6771) AND ARRANGE FOR A CONVENIENT TIME TO DELIVER ONLY CITY SIGNS AND POSTS IDENTIFIED BY TRAFFIC OPERATIONS DIVISION TO 2200 PATTERSON.
3. PRIOR TO THE START OF CONSTRUCTION, ALL EXISTING SIGNS WITHIN THE AREA OF CONSTRUCTION WILL BE INVENTORIED AND DOCUMENTED JOINTLY BY THE CITY INSPECTOR AND THE CONTRACTOR. THIS DOCUMENT WILL BE JOINTLY SIGNED BY BOTH PARTIES REFLECTING THE SIGN TYPE, SIGN SIZE, SIGN CONDITION, SIGN LOCATION, REFLECTIVITY ADEQUACY, ETC. THE CONTRACTOR IS HELD ACCOUNTABLE FOR THESE SIGNS THROUGHOUT THE PROJECT AND AT THE PROJECTS COMPLETION.
4. ALL GROUND MOUNTED STOP SIGNS, WARNING SIGNS, AND OTHER REGULATORY SIGNS SHALL USE AT A MINIMUM HIGH INTENSITY PRISMATIC REFLECTIVE SHEETING.
5. ALL OVERHEAD SIGNS SHALL USE DIAMOND GRADE REFLECTIVE SHEETING.
6. ALL OTHER SIGNS SHALL USE SUPER ENGINEER GRADE SHEETING.
7. ALL BLANKS TO BE INSTALLED SHALL BE ALUMINUM ALLOY 6061–T–6 OR 5052–H38 IN ACCORDANCE WITH ASTM B209.
8. ALL HOLES SHALL BE ⅜" DIAMETER DRILLED OR PUNCHED AS SHOWN ON EACH BLANK DETAIL AND SHALL BE FREE OF BURRS AND / OR ROUGH EDGES. WHERE NON–STANDARD ORIENTATION OF SIGN IS USED, ENLARGE HOLE IN SIGN POST AT SIGN CONNECTION NOT GREATER THAN 11/16" IN DIAMETER.
9. BOLT SIZE REQUIREMENTS FOR SIGN CONNECTION:
   - 9.1. STANDARD ORIENTATION = 5/16" DIA X 2 1/2" BOLT
   - 9.2. NON STANDARD ORIENTATION = 5/16" DIA X 3" BOLT
10. SIGN BLANK CORNERS TO BE ROUNDED AS SHOWN ON EACH DETAIL ON SHEET 01554–06.
11. ALL SIGN BLANKS ARE TO BE ETCHED, DEGREASED, AND HAVE A COATING MEETING THE REQUIREMENTS OF ASTM B449, CLASS 2, OR ASTM B921, CLASS 2. PRIOR TO APPLICATION OF LEGENDS.
12. ALL SIGNS SHALL BE MANUFACTURED AND INSTALLED IN CONFORMANCE TO THE LATEST TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) AND STANDARD HIGHWAY SIGNS LATEST EDITION.



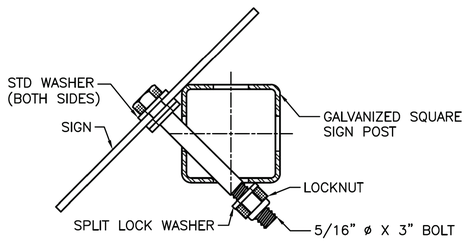
SECTION D5
BOLTS



SECTION C5
CORNER BOLT



STANDARD ORIENTATION



NON–STANDARD ORIENTATION

SECTION A3: SIGN CONNECTION DETAILS

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

GENERAL NOTES AND GROUND MOUNTING SIGN

(SCALE: NOT TO SCALE)

APPROVED BY:

DocuSigned by: Subait Kanwar 9EF8B0C641F5478...
CITY ENGINEER

DocuSigned by: KHANG NGUYEN 95A29EFDA75B4CD...
CITY TRAFFIC ENGINEER

DocuSigned by: Carol Haddock A93C410B72B3453...
DIRECTOR OF HPW

EFF DATE: NOV–27–2023 | DWG NO: 01554–01

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TBPE Firm Reg. #4575

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ENGINEER: V. N. MURTHY MADE, P.E
P.E. Reg No: 134936
DATE: NOVEMBER 2025

SURVEYED BY: Kuo&Associates
FB NO. P–XXXX

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

PAVING AND DRAINAGE IMPROVEMENTS IN ALIEF FOREST SOUTH AREA

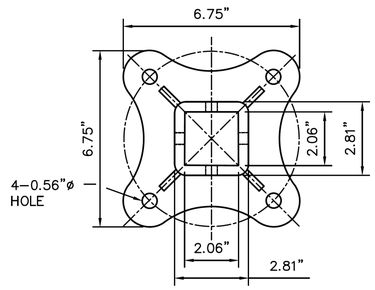
GENERAL NOTES AND GROUND MOUNTING SIGN

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
NA	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 197 OF 369	

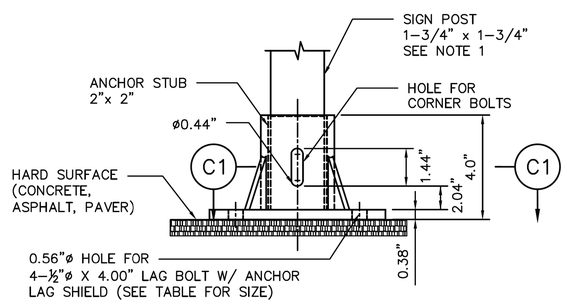
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TOP VIEW



SIDE VIEW

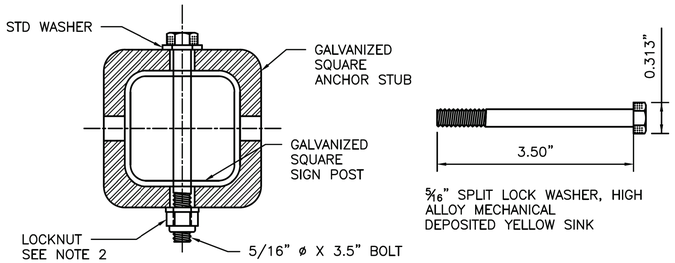
TYPICAL HARD SURFACE INSTALLATION GALVANIZED SIGN BASE

NOTES:

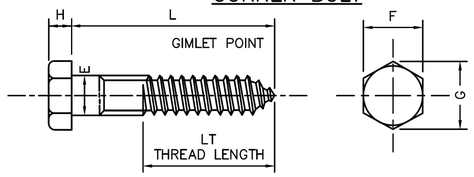
1. REFER TO COH STD DWG 01554–01 FOR SIGN AND POST REQUIREMENTS.
2. REFER TO DETAIL "C5" ON COH STD DWG 01554–01 FOR NUT AND BOLT REQUIREMENTS.

BASE PLATE NOTES:

1. MATERIAL: ASTM A–536 GRADE 65–45–12 DUCTILE IRON
2. HOT DIP GALVANIZE PER ASTM A–153
3. ALL DIMENSIONS ARE IN INCHES



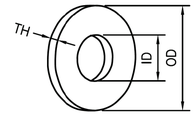
SECTION C1
CORNER BOLT



DIAMETER	E		F		G		H		L	LT
	BODY DIAMETER		WIDTH ACROSS FLATS		WIDTH ACRSS CORNERS		HEIGHT		LENGTH	THREAD LENGTH
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN		
1/2"	0.515"	0.482"	0.750"	0.725"	0.866"	0.826"	0.364"	0.302"	4.00"	3.84"

MATERIAL:PER A307 GRADE A
COATING: HOT DIP ZINC PER ASTM F2329 OR IN ACCORDANCE WITH CLASS C OF ASTM A153 AND CLASS D FOR ⅜" DIAMETER AND LESS

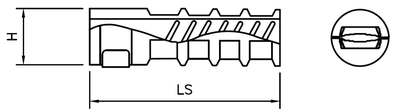
4" HEX LAG SCREWS, HOT DIPPED GALVANIZED



SAE FLAT WASHERS									
	ID			OD			THICKNESS – TH		
SIZE	BASIC	TOLERANCE		BASIC	TOLERANCE		BASIC	MAX	MIN
		PLUS	MINUS		PLUS	MINUS			
1/2"	0.531	0.015"	0.005"	1.062"	0.030"	0.007"	0.95"	0.121"	0.74"

DIMENSIONS: ASME B18.21.1, TYPE A PLAIN WASHERS
MATERIAL: CARBON STEEL
FINISH: Fe/Zn 3AT PER ASTM F1941

1/2" FLAT WASHERS, LOW CARBON, SAE, ZINC PLATED



TH	LS	H	L
LAG THREAD SIZE	LENGTH OF SHIELD	DRILLED HOLE SIZE	BOLT LENGTH REQ
	NOMINAL		
1/2"	3.00"	0.75"	4.00"

ANCHOR LAG SHIELD – ZINC ALLOY

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

SIGN BASE
HARD SURFACE
MOUNTING DETAILS
(SCALE: NOT TO SCALE)

APPROVED BY:

DocuSigned by: Suhail Kanwar 9EF8B0C641F5478...
CITY ENGINEER

DocuSigned by: KHANG NGUYEN 95A29EFDA75B4CD...
CITY TRAFFIC ENGINEER

DocuSigned by: Carol Haddock A93C410B72B3453...
DIRECTOR OF HPW

EFF DATE: NOV–27–2023 | DWG NO: 01554–02

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ENGINEER: V. N. MURTHY MADE, P.E
P.E. Reg No: 134936
DATE: NOVEMBER 2025

SURVEYED BY: Kuo&Associates
FB NO. P–XXXX

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

PAVING AND DRAINAGE
IMPROVEMENTS IN ALIEF
FOREST SOUTH AREA

SIGN BASE
MOUNTING DETAIL

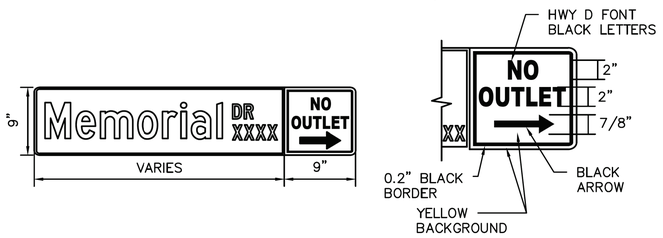
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DRAWING SCALE	
NA	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 198 OF 369	

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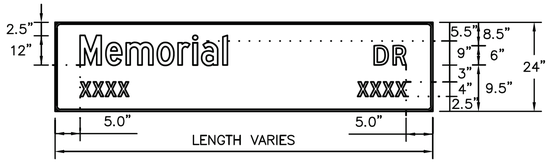
POST MOUNTED STREET NAME SIGN W/ NO OUTLET SIGN



D3 – POST MOUNTED STREET NAME SIGN



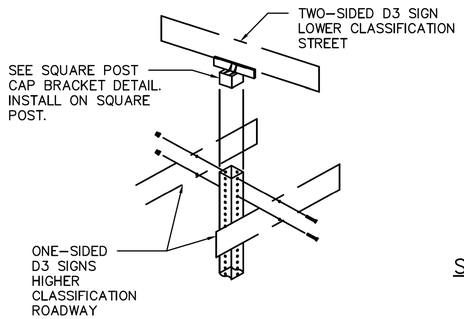
OVERHEAD STREET NAME SIGN DETAIL



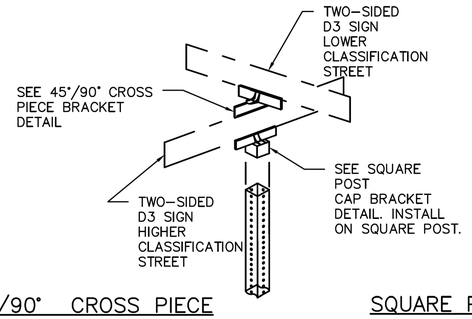
D3 – STREET NAME SIGN

	POST–MOUNTED SIGN	OVERHEAD SIGN
HEIGHT	9"	24"
LENGTH	30" MIN 48" MAX 6" INCREMENTS OF LENGTH	10" MAX 2' INCREMENT OF LENGTH
THICKNESS	0.125"	0.080"
SUBSTREATE	ALLUMINUM ALLOY, 5052–H38 (ASTM B–209)	
SIGN FACE MATERIALS	GREEN FILM OVER DIAMOND GRADE VIP SHEETING	
LEGENDS AND SYMBOLS	HIGHWAY GOTHIC SERIES D (USUAL) HIGHWAY GOTHIC SERIES C OR B FOR MAXIMUM LENGTH SIGN BLACK	
COLOR	LETTERS–WHITE REFLECTIVE BORDER–WHITE REFLECTIVE BACKGROUND–GREEN REFLECTIVE	

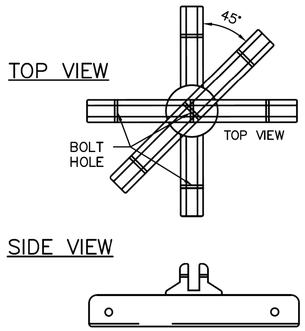
D3 SIGNS GREATER THAN 42" PLATES IN LENGTH



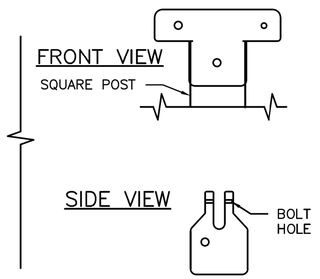
D3 SIGNS LESS THAN OR EQUAL TO 42" PLATES IN LENGTH



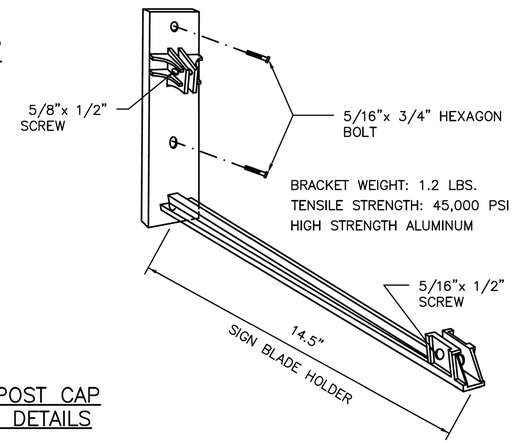
45°/90° CROSS PIECE SIGN BRACKET



SQUARE POST CAP BRACKET DETAILS



SIGNAL POLE MOUNTING DETAIL



NOTES:

1. TYPICAL SIGN PLATE SHOULD BE 30" MAX.
2. LONGER SIGN PLATE MUST BE APPROVED BY THE CITY TRAFFIC ENGINEER.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

STREET NAME SIGN AND SIGN MOUNTING

(SCALE: NOT TO SCALE)

APPROVED BY:

DocuSigned by: Suhail Kanwar – 9EF8B0C641F5478... – CITY ENGINEER

DocuSigned by: Carol Haddock – A93C410B72B3453... – DIRECTOR OF HPW

DocuSigned by: KHANG NGUYEN – 95A29EFDA75B4CD... – CITY TRAFFIC ENGINEER

EFF DATE: NOV–27–2023 | DWG NO: 01554–03

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TBPE Firm Reg. #4575

SURVEYED BY: Kuo&Associates
FB NO. P–XXXX

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BIDDING OR CONSTRUCTION
ENGINEER: V. N. MURTHY MADE, P.E
P.E. Reg No: 134936
DATE: NOVEMBER 2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

PAVING AND DRAINAGE IMPROVEMENTS IN ALIEF FOREST SOUTH AREA

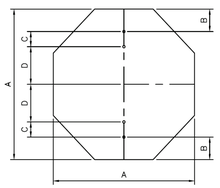
STREET NAME SIGN AND SIGN MOUNTING

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
NA	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 199 OF 369	

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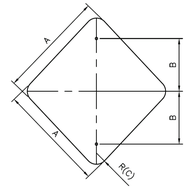
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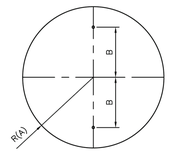
OCTAGONAL

A	B	C	D	T
24	3	3	12	0.08
36	3	3	24	0.08



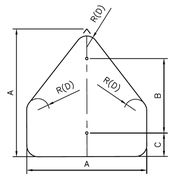
DIAMOND

A	B	C	T
24	12	1 1/2	0.08
30	15	1 1/2	0.08
36	18	1 1/2	0.08



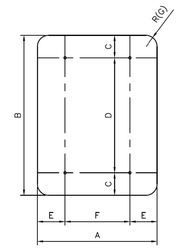
CIRCLE

A	B	T
15	15	0.08
18	12	0.08



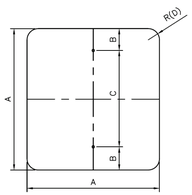
PENTAGON (SCHOOL)

A	B	C	D	T
36	24	3	1 1/2	0.08



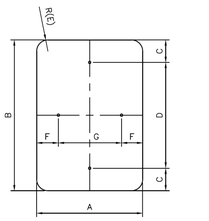
VERTICAL RECTANGLE

A	B	C	D	E	F	G	T
36	48	6	36	6	24	1 1/2	0.08
48	60	6	48	9	30	1 1/2	0.08
18	30	3	24	–	–	1 1/2	0.08



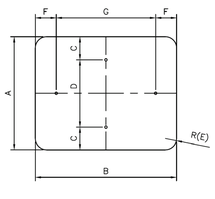
SQUARE (A)

A	B	C	D	T
18	3	12	1 1/2	0.08
24	3	18	1 1/2	0.08
36	3	30	1 1/2	0.08



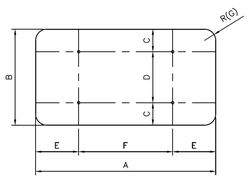
VERTICAL/HORIZONTAL RECTANGLE

A	B	C	D	E	F	G	T
12	18	1 1/2	15	1 1/2	1 1/2	9	0.08
12	36	3	30	1 1/2	1 1/2	9	0.08
18	24	3	18	1 1/2	1 1/2	15	0.08
24	30	3	24	1 1/2	3	18	0.08
24	36	3	30	1 1/2	3	18	0.08
24	48	3	36	1 1/2	3	18	0.08
30	36	3	30	1 1/2	3	24	0.08



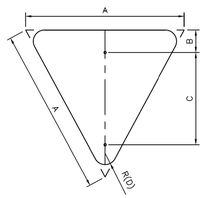
HORIZONTAL/VERTICAL RECTANGLE

A	B	C	D	E	F	G	T
12	6	–	–	1 1/2	1	4	0.08
18	6	–	–	1 1/2	1	4	0.08
12	9	1	10	1 1/2	–	–	0.08
24	12	1 1/2	9	1 1/2	2	8	0.08
24	18	3	12	1 1/2	2	14	0.08
30	24	3	18	1 1/2	3	18	0.08
36	12	1 1/2	9	1 1/2	2	8	0.08



HORIZONTAL RECTANGLE

A	B	C	D	E	F	G	T
36	24	3	18	6	24	1 1/2	0.08
48	24	3	18	9	30	1 1/2	0.08
48	36	6	24	9	30	1 1/2	0.08
60	24	3	18	12	36	1 1/2	0.08
60	36	6	24	12	36	1 1/2	0.08



EQUILATERAL TRIANGLE

A	B	C	D	T
36	3	21	1 1/2	0.08

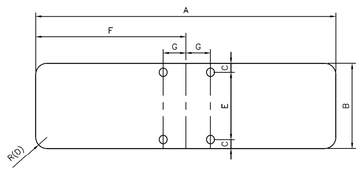


TABLE – D3 SIGNS (BRACKETS)

A	B	C	D	E	F	G	T
30	9	5/16	1 1/2	8 3/8	15	1 3/4	0.125
36	9	5/16	1 1/2	8 3/8	18	1 3/4	0.125
42	9	5/16	1 1/2	8 3/8	21	1 3/4	0.125
48	9	5/16	1 1/2	8 3/8	24	1 3/4	0.125

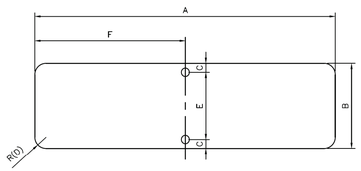


TABLE – D3 SIGNS

A	B	C	D	E	F	T
30	9	1 1/2	1 1/2	6	15	0.125
36	9	1 1/2	1 1/2	6	18	0.125
42	9	1 1/2	1 1/2	6	21	0.125
48	9	1 1/2	1 1/2	6	24	0.125

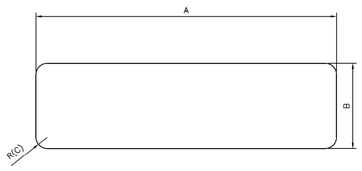
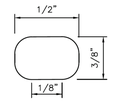


TABLE – D1 SIGNS

A	B	C	T
60	24	1 1/2	0.08
72	24	1 1/2	0.08
84	24	1 1/2	0.08
96	24	1 1/2	0.08

NOTES:

1. A 30" LONG OR GREATER PLATE SHALL BE USED WHEN A "NO OUTLET" SUPPLEMENT IS REQUIRED.
2. THE CITY OF HOUSTON "STOP" AND "YIELD" SIGNS SHALL BE A MINIMUM 36". SPECIAL PERMISSION FROM THE CITY TRAFFIC ENGINEER IS REQUIRED FOR LESS THAN 36" SIGNS.
3. ALL PUNCHED HOLES ARE 3/8"x 1/2" OVAL.
4. ALL CORNER RADII ARE 1 1/2".
5. ALL DIMENSIONS ARE IN INCHES.
6. T = THICKNESS



APPROVED BY:	APPROVED BY:
DocuSigned by: Sukul Tanwar 9EF8B0C641F5478...	DocuSigned by: Hailing Menchen 95A28EFDA75B4CD...
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY: DocuSigned by: Carl Haddock 4BB2A1587E5A4D...	
DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV-27-2023	DWG NO: 01554-06

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

GROUND MOUNTED
SIGN SIZES

DRAWING SCALE	FOR CITY OF HOUSTON USE ONLY
NOT TO SCALE	

ISANI
civil \ design \ engineers
10448 Westoffice Drive
Houston, Texas 77042
P 713 747 2399
F 713 748 3748
TBPE Firm Reg. #4575

INTERIM REVIEW ONLY
DOCUMENT INCOMPLETE;
NOT INTENDED FOR PERMIT,
BIDDING OR CONSTRUCTION
ENGINEER: V. N. MURTHY MADE, P.E
P.E. Reg No: 134936
DATE: NOVEMBER 2025

SURVEYED BY: Kuo&Associates
FB NO. P-XXXX

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

PAVING AND DRAINAGE IMPROVEMENTS IN ALIEF FOREST SOUTH AREA

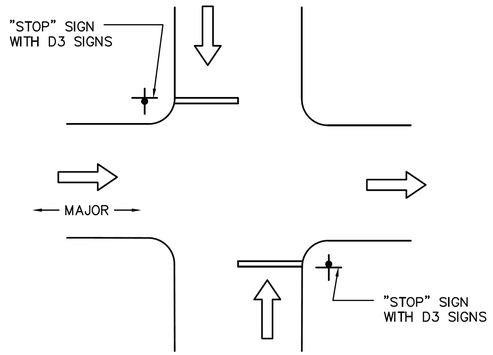
GROUND MOUNTED
SIGN SIZES

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
NA	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 200 OF 369	

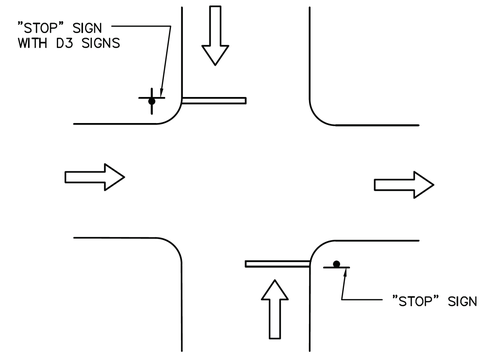
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DATE:5/23/2026

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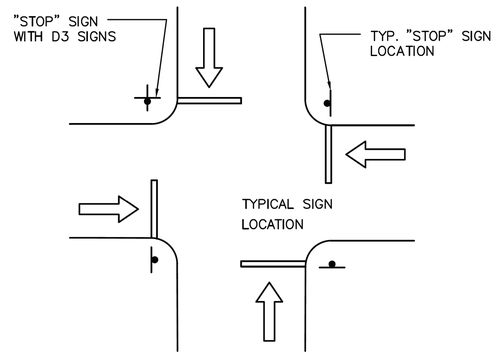
TYPICAL SIGN PLACEMENT



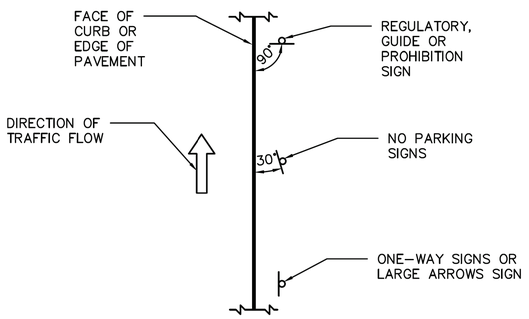
TWO–WAY STOP
AND ONE–WAY OPERATION
ON MAJOR/LOCAL INTERSECTION



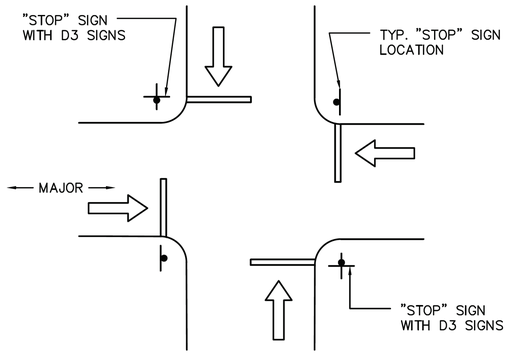
TWO–WAY STOP
AND ONE–WAY OPERATION
ON LOCAL/LOCAL INTERSECTION



FOUR–WAY STOP CONTROL
ON LOCAL/LOCAL INTERSECTION



MAST ARM INSTALLATION
REFER TO TRAFFIC SIGNAL DETAILS
FOR ADDITIONAL INFORMATION.



FOUR–WAY STOP CONTROL
ON MAJOR/LOCAL INTERSECTION

DISCLAIMER:
THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. THE DESIGN REQUIREMENTS ON THIS STANDARD DO NOT PURPORT TO ADDRESS ALL OF THE SAFETY CONCERNS ASSOCIATED WITH THEIR USE. THE ENGINEER OF RECORD (EOR) IS TO REVIEW THESE DESIGN REQUIREMENTS AND BY AUTHORIZING THEIR USE, ACCEPTS RESPONSIBILITY FOR THEIR APPLICABILITY, ADEQUACY AND SAFETY. NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER. THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

TYPICAL SIGN PLACEMENT

(SCALE: NOT TO SCALE)

APPROVED BY:

DocuSigned by: Suhail Kanwar 9EF8B0C841F5478...
CITY ENGINEER

DocuSigned by: KHANG NGUYEN 95A29EFDA75B4CD...
CITY TRAFFIC ENGINEER

DocuSigned by: Carol Haddock A93C410B72B3453...
DIRECTOR OF HPW

EFF DATE: NOV–27–2023 | DWG NO: 01554–07

ISANI
civil \ design \ engineers
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F 713 748 3748
TBPE Firm Reg. #4575

INTERIM REVIEW ONLY
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BIDDING OR CONSTRUCTION
ENGINEER: V. N. MURTHY MADE, P.E
P.E. Reg No: 134936
DATE: NOVEMBER 2025

SURVEYED BY: Kuo&Associates
FB NO. P–XXXX

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

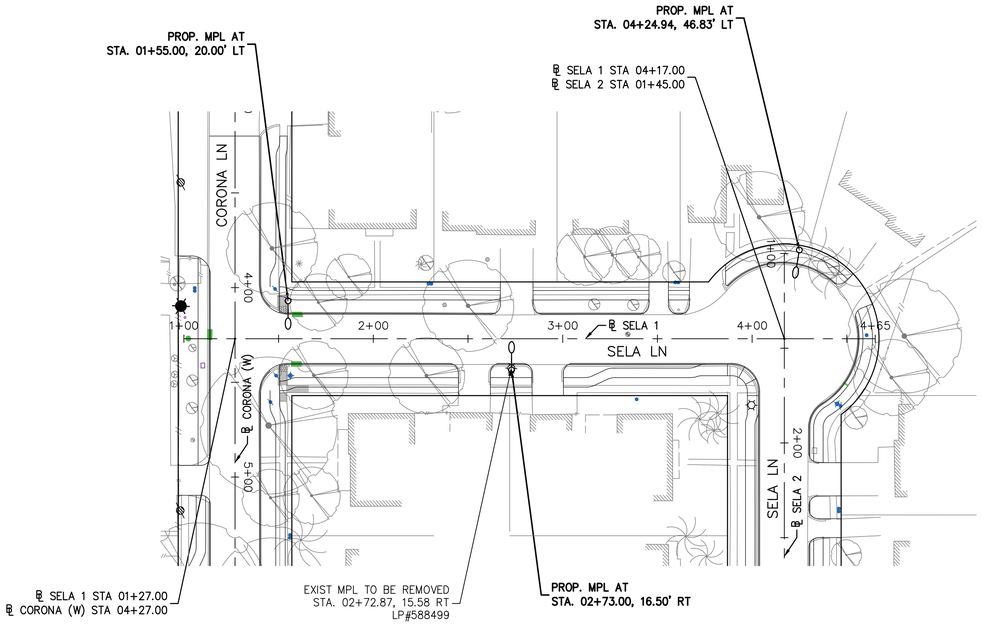
PAVING AND DRAINAGE
IMPROVEMENTS IN ALIEF
FOREST SOUTH AREA

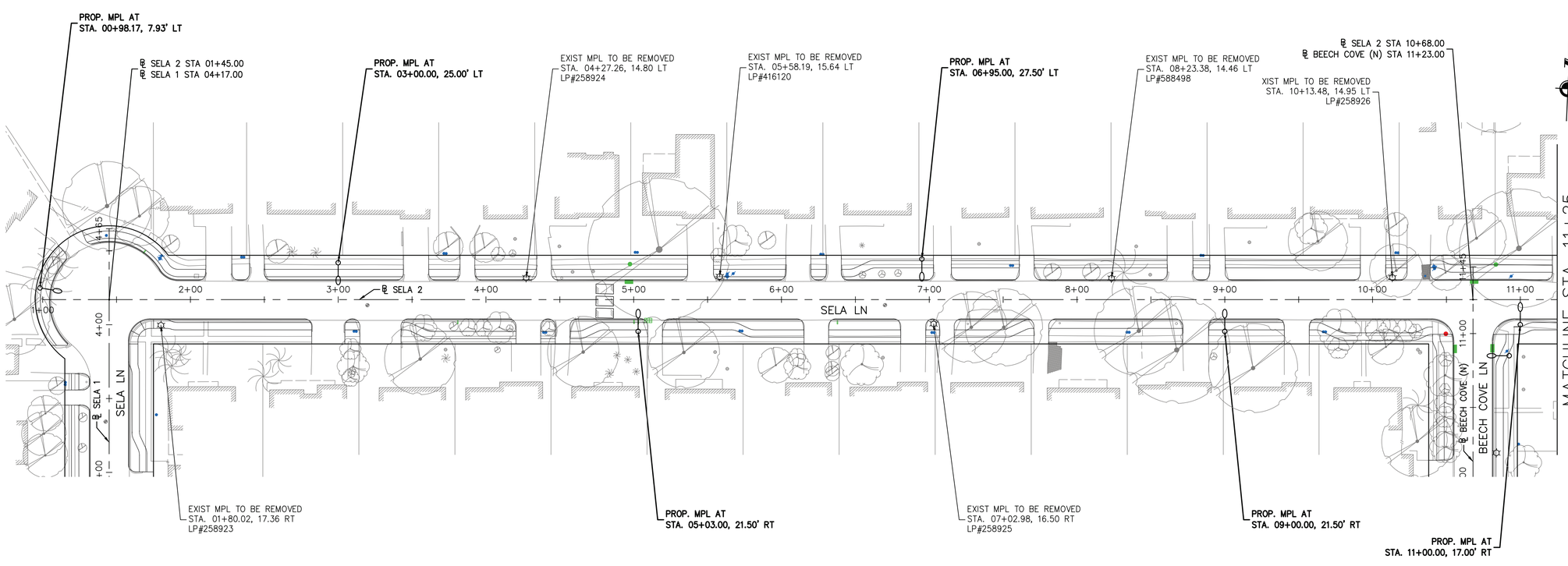
TYPICAL SIGN
PLACEMENT

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
NA	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 201 OF 369	

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DATE:5/23/2026

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NO.	DATE	REVISION	APP.

40 0 20 40 80

SCALE: 1" = 40'-0"

LEGENDS:

- EXISTING WOOD POLE W/ REMOVED OR NO LIGHT
- EXISTING WOOD POLE LIGHT (WPL) TO REMAIN
- EXISTING METAL POLE LIGHT (MPL) TO BE REMOVED
- EXISTING METAL POLE LIGHT (MPL) TO REMAIN
- PROPOSED METAL POLE LIGHT (MPL)
- PROPOSED PULL BOX
- PROPOSED 2" PVC CONDUIT

NOTES:

1. EXISTING STREET LIGHT POLES ARE TO BE REMOVED BY CENTERPOINT ENERGY. AFTER REMOVAL OF EXISTING POLE, CONTRACTOR SHALL DEMO ANY EXISTING POLE FOUNDATION TO MINIMUM 1' BELOW FINISHED GRADE.
2. CONTRACTOR TO REFER TO CENTERPOINT ENERGY SPECIFICATION NO. 007-371-08, LATEST REVISION FOR INFORMATION REGARDING STREET LIGHT CONDUIT INSTALLATION.
3. CONDUIT/ PULL BOX LAYOUT AS DETERMINED BY CENTERPOINT ENERGY.
4. FOR CONDUIT INSTALLATION IN EASEMENTS, AND UNDER SIDEWALKS, USE SCHEDULE 40 PVC. FOR CONDUIT INSTALLATION UNDER ROADWAYS, UNDER DRIVEWAYS, DITCH CROSSINGS, AND PIPELINE EASEMENTS USE SCHEDULE 80 PVC.
5. PROVIDE 6'-6"X6'-6" CONCRETE BLOCK OUT AREA IF LIGHT POLE IS LOCATED WITHIN CONCRETE AREA.
6. REFER TO DESIGN PLAN & PROFILE SHEETS FOR OTHER UTILITIES, LOCATED IN THE VICINITY OF THE PROPOSED STREET LIGHT POLES.
7. DO NOT PLACE PROPOSED STREET LIGHTS ON SIDEWALKS, WHEELCHAIR RAMPS OR UNDER HEAVY TREE CANOPIES WITHOUT APPROVAL FROM THE CITY OF HOUSTON CONSTRUCTION MANAGER.

CENTERPOINT ENERGY NOTE:

THIS PROJECT IS SUBJECT TO REVIEW AND POSSIBLE REVISION BY THE LIGHTING DESIGN SERVICES DEPARTMENT. STREET LIGHT LAYOUT IS CONTINGENT UPON STREETS BEING CURBED AND GUTTERED IN ACCORDANCE WITH MUNICIPAL OR COUNTY STANDARDS. FIXTURE LOCATION, STANDARD TYPES AND ILLUMINATION LEVELS SHOWN ON THIS LAYOUT WERE PROVIDED BY THE MUNICIPALITY, DEVELOPER, OR ASSOCIATION AND WERE NOT DESIGNED BY CENTERPOINT ENERGY.

LOCATION OF CENTERPOINT ENERGY FACILITIES ARE APPROXIMATE AND HAVE NOT BEEN VERIFIED BY ACTUAL FIELD CHECK.

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F 713 748 3748
TBPE Firm Reg. #4575

KUO & ASSOCIATES ENGINEERING & SURVEYING
10300 WESTOFFICE DR. SUITE 800
HOUSTON, TX 77042
713-975-8769
TX FIRM NO.: F-4578

SURVEYED BY:
Kuo & Associates, LLC
FB NO.: P-6382

THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW UNDER THE AUTHORITY OF

SUDHEER GOUD SANGAM, P.E.
TEXAS REG. NO.: 111684

ON 08/07/2026
IT IS NOT TO BE USED FOR PERMIT, BIDDING OR CONSTRUCTION PURPOSES

CITY OF HOUSTON

HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

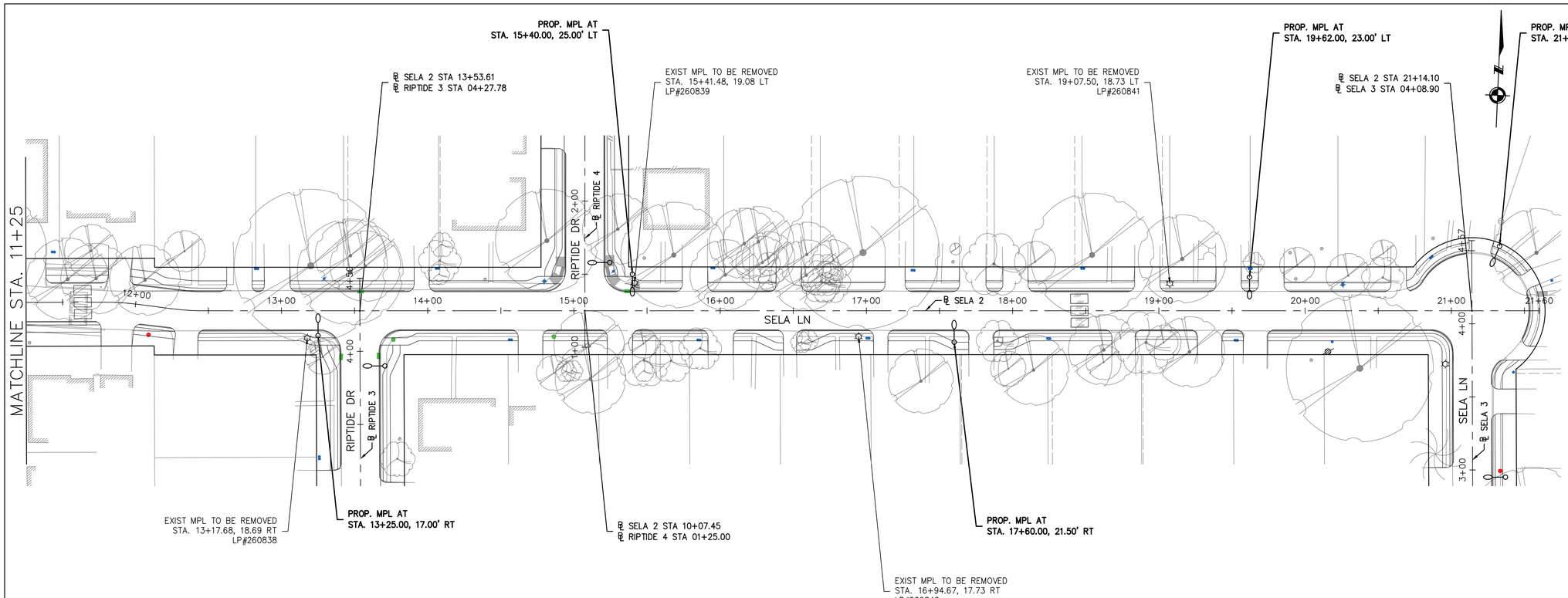
STREET LIGHTING PLANS
SELA LN

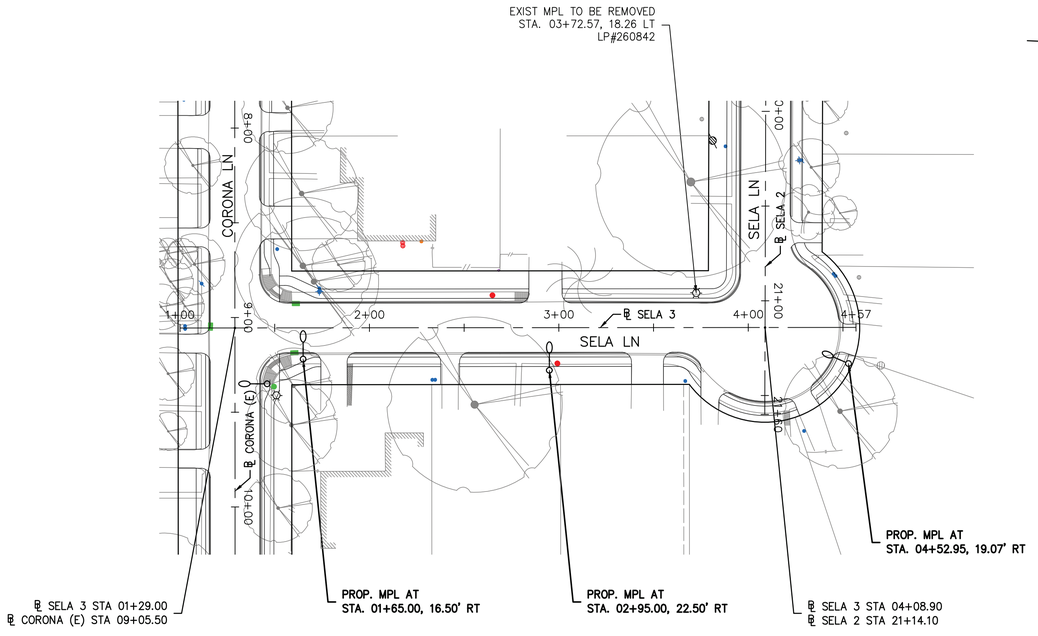
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WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
HORIZ: 1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 202 OF 369	

FILE PATH: S:\Proj-2024\24058 (P23051-P19126 ALIEF FOREST S)\Dwgs\Design\24058-Street Lighting Sheets.dwg

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NO.	DATE	REVISION	APP.

40 0 20 40 80

SCALE: 1" = 40'-0"

LEGENDS:

- EXISTING WOOD POLE W/ REMOVED OR NO LIGHT
- EXISTING WOOD POLE LIGHT (WPL) TO REMAIN
- EXISTING METAL POLE LIGHT (MPL) TO BE REMOVED
- EXISTING METAL POLE LIGHT (MPL) TO REMAIN
- PROPOSED METAL POLE LIGHT (MPL)
- PROPOSED PULL BOX
- PROPOSED 2" PVC CONDUIT

NOTES:

1. EXISTING STREET LIGHT POLES ARE TO BE REMOVED BY CENTERPOINT ENERGY. AFTER REMOVAL OF EXISTING POLE, CONTRACTOR SHALL DEMO ANY EXISTING POLE FOUNDATION TO MINIMUM 1' BELOW FINISHED GRADE.
2. CONTRACTOR TO REFER TO CENTERPOINT ENERGY SPECIFICATION NO. 007-371-08, LATEST REVISION FOR INFORMATION REGARDING STREET LIGHT CONDUIT INSTALLATION.
3. CONDUIT/ PULL BOX LAYOUT AS DETERMINED BY CENTERPOINT ENERGY.
4. FOR CONDUIT INSTALLATION IN EASEMENTS, AND UNDER SIDEWALKS, USE SCHEDULE 40 PVC. FOR CONDUIT INSTALLATION UNDER ROADWAYS, UNDER DRIVEWAYS, DITCH CROSSINGS, AND PIPELINE EASEMENTS USE SCHEDULE 80 PVC.
5. PROVIDE 6'-6"X6'-6" CONCRETE BLOCK OUT AREA IF LIGHT POLE IS LOCATED WITHIN CONCRETE AREA.
6. REFER TO DESIGN PLAN & PROFILE SHEETS FOR OTHER UTILITIES, LOCATED IN THE VICINITY OF THE PROPOSED STREET LIGHT POLES.
7. DO NOT PLACE PROPOSED STREET LIGHTS ON SIDEWALKS, WHEELCHAIR RAMPS OR UNDER HEAVY TREE CANOPIES WITHOUT APPROVAL FROM THE CITY OF HOUSTON CONSTRUCTION MANAGER.

CENTERPOINT ENERGY NOTE:

THIS PROJECT IS SUBJECT TO REVIEW AND POSSIBLE REVISION BY THE LIGHTING DESIGN SERVICES DEPARTMENT. STREET LIGHT LAYOUT IS CONTINGENT UPON STREETS BEING CURBED AND GUTTERED IN ACCORDANCE WITH MUNICIPAL OR COUNTY STANDARDS. FIXTURE LOCATION, STANDARD TYPES AND ILLUMINATION LEVELS SHOWN ON THIS LAYOUT WERE PROVIDED BY THE MUNICIPALITY, DEVELOPER, OR ASSOCIATION AND WERE NOT DESIGNED BY CENTERPOINT ENERGY.

LOCATION OF CENTERPOINT ENERGY FACILITIES ARE APPROXIMATE AND HAVE NOT BEEN VERIFIED BY ACTUAL FIELD CHECK.

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10448 Westoffice Drive
Houston, Texas 77042
P 713 747 2399
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TBPE Firm Reg. #4575

KUO & ASSOCIATES ENGINEERING + SURVEYING
10300 WESTOFFICE DR. SUITE 800
HOUSTON, TX 77042
713-975-8769
TX FIRM NO.: F-4578

SURVEYED BY:
Kuo & Associates, LLC
FB NO.: P-6382

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SUDHEER GOUD SANGAM, P.E.
TEXAS REG. NO.: 111684
ON 08/07/2026
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

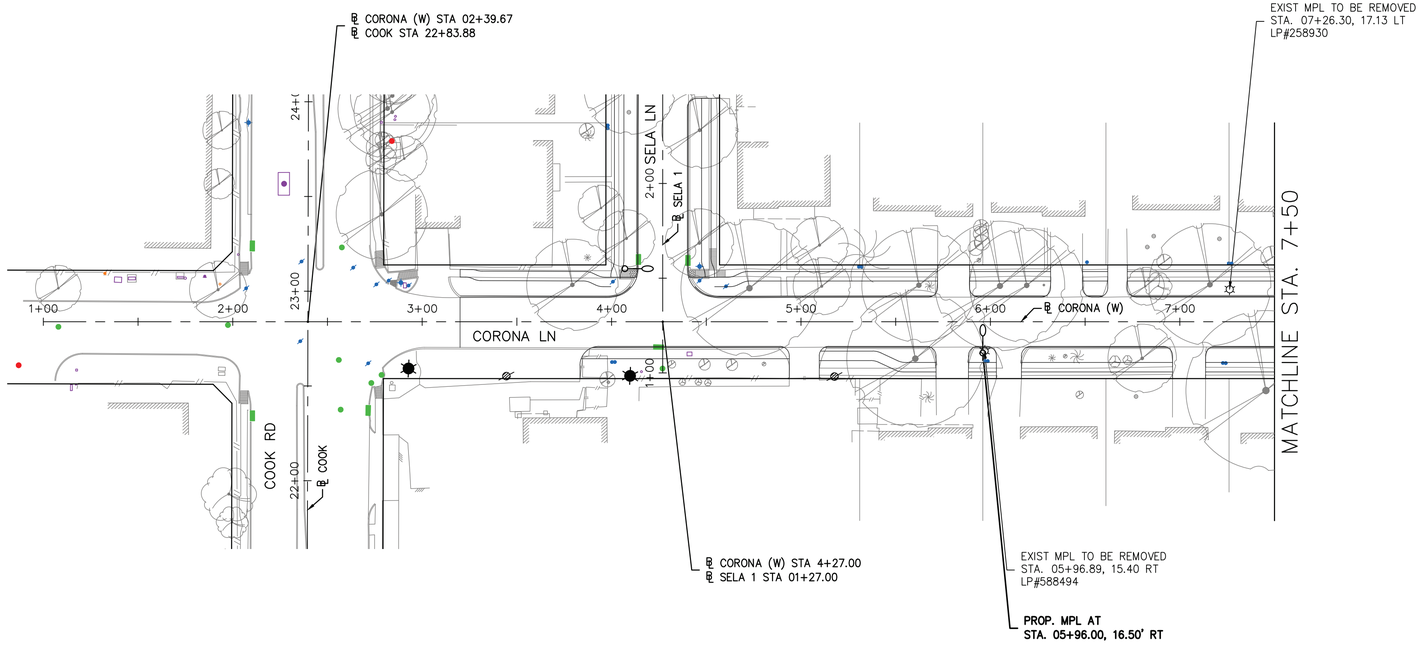
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STREET LIGHTING PLANS
SELA LN

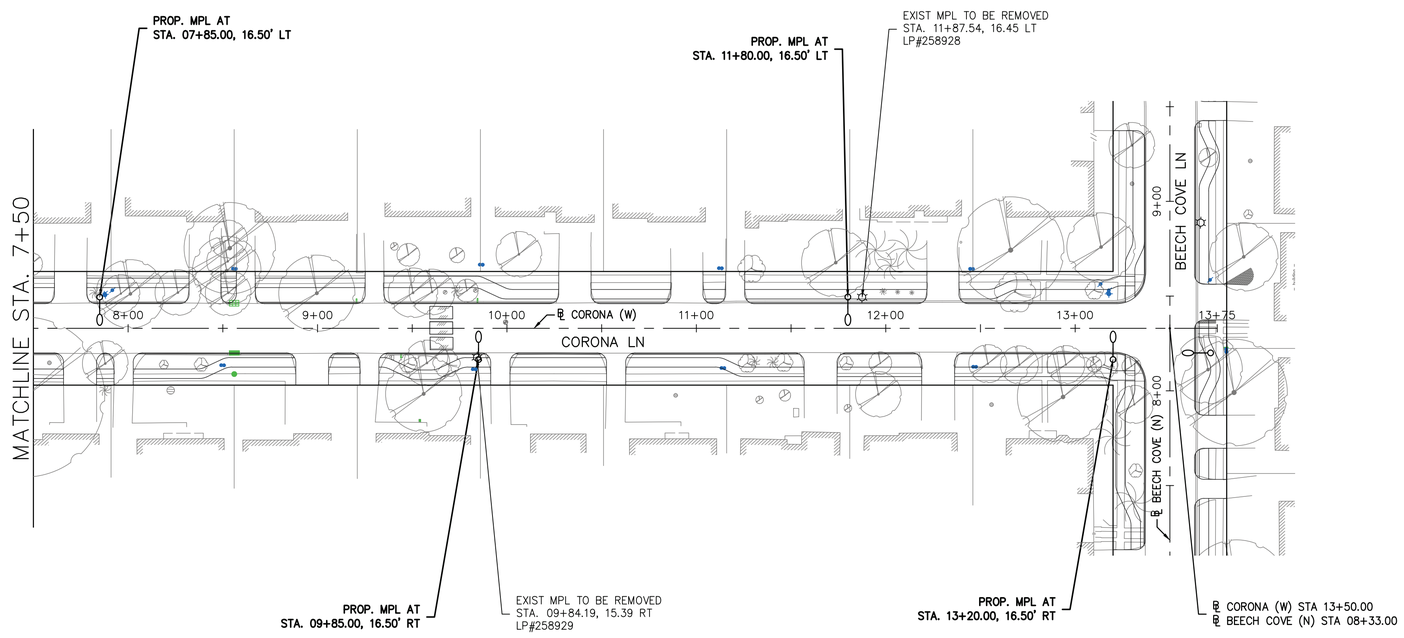
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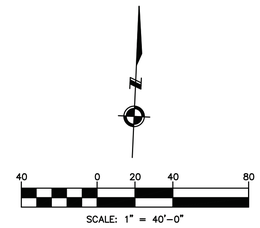
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CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 203 OF 369	

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NO.	DATE	REVISION	APP.

LEGENDS:

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- EXISTING WOOD POLE LIGHT (WPL) TO REMAIN
- EXISTING METAL POLE LIGHT (MPL) TO BE REMOVED
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- PROPOSED METAL POLE LIGHT (MPL)
- PROPOSED PULL BOX
- PROPOSED 2" PVC CONDUIT

NOTES:

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3. CONDUIT/ PULL BOX LAYOUT AS DETERMINED BY CENTERPOINT ENERGY.
4. FOR CONDUIT INSTALLATION IN EASEMENTS, AND UNDER SIDEWALKS, USE SCHEDULE 40 PVC. FOR CONDUIT INSTALLATION UNDER ROADWAYS, UNDER DRIVEWAYS, DITCH CROSSINGS, AND PIPELINE EASEMENTS USE SCHEDULE 80 PVC.
5. PROVIDE 6'-6"X6'-6" CONCRETE BLOCK OUT AREA IF LIGHT POLE IS LOCATED WITHIN CONCRETE AREA.
6. REFER TO DESIGN PLAN & PROFILE SHEETS FOR OTHER UTILITIES, LOCATED IN THE VICINITY OF THE PROPOSED STREET LIGHT POLES.
7. DO NOT PLACE PROPOSED STREET LIGHTS ON SIDEWALKS, WHEELCHAIR RAMPS OR UNDER HEAVY TREE CANOPIES WITHOUT APPROVAL FROM THE CITY OF HOUSTON CONSTRUCTION MANAGER.

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TBPE Firm Reg. #4575

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10300 WESTOFFICE DR. SUITE 800
HOUSTON, TX 77042
713-975-8769
TX FIRM NO.: F-4578

SURVEYED BY:
Kuo & Associates, LLC
FB NO.: P-6382

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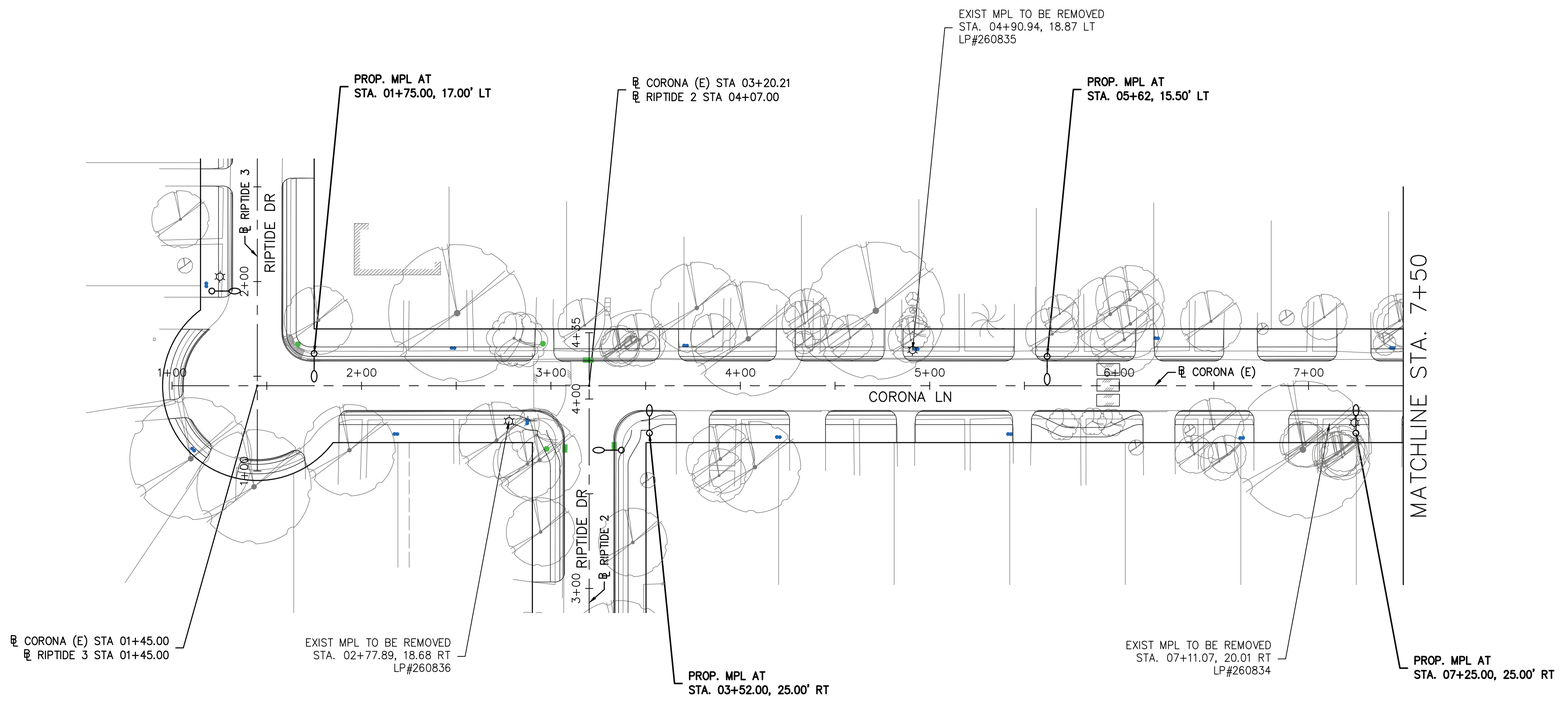
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STREET LIGHTING PLANS
CORONA LN

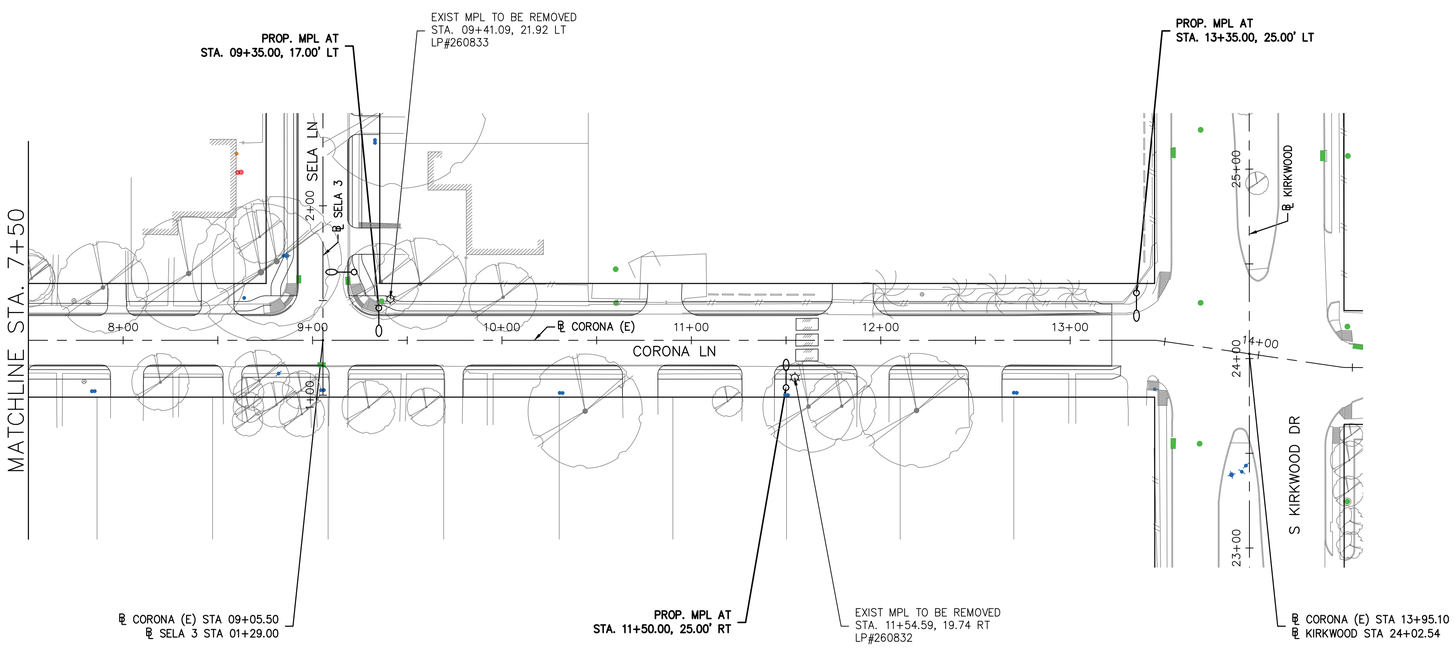
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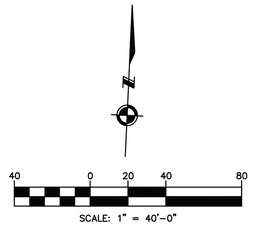
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HORIZ: 1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 204 OF 369	

FILE PATH: S:\Proj-2024\24058 (P23051-P19126 ALIEF FOREST S)\Dwgs\Design\24058-Street Lighting Sheets.dwg

PLOT STYLE: Coh_ctb_220714.ctb PLOTTED: 8/7/2026 6:28 PM







NO.	DATE	REVISION	APP.

LEGENDS:

- EXISTING WOOD POLE W/ REMOVED OR NO LIGHT
- EXISTING WOOD POLE LIGHT (WPL) TO REMAIN
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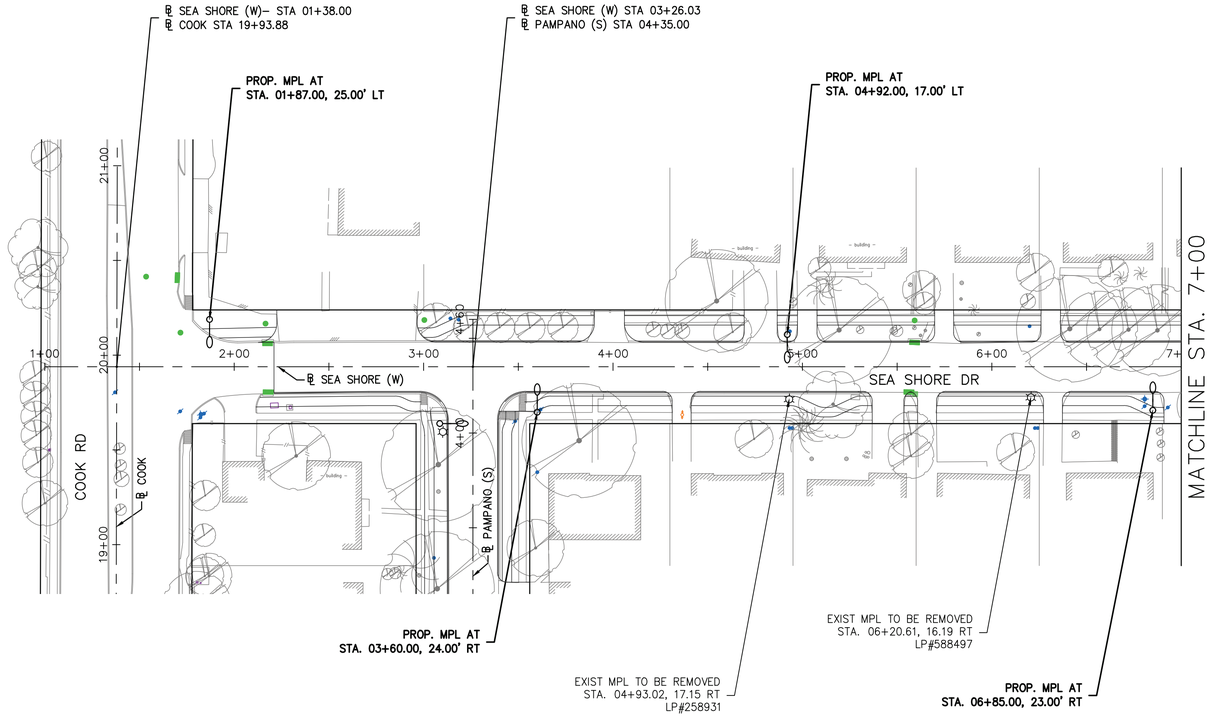
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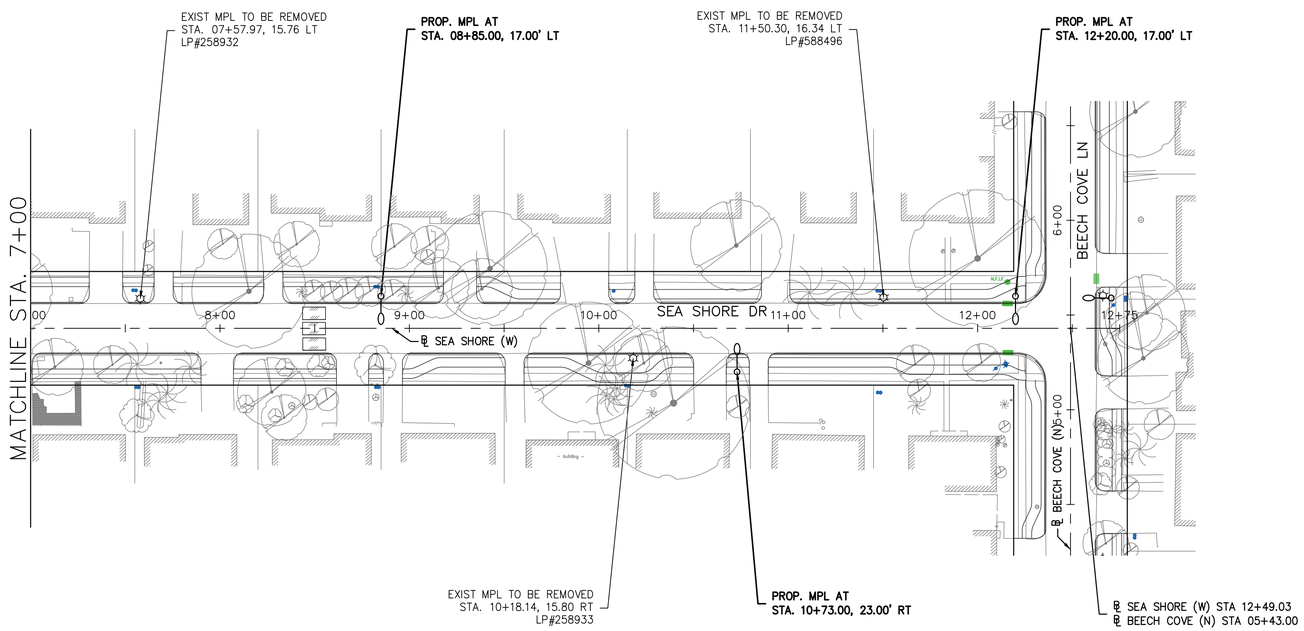
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CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 205 OF 369	

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PLOT STYLE: Coh_ctb_220714.ctb PLOTTED: 8/7/2026 6:28 PM





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NO.	DATE	REVISION	APP.

N

40 0 20 40 80

SCALE: 1" = 40'-0"

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CITY OF HOUSTON

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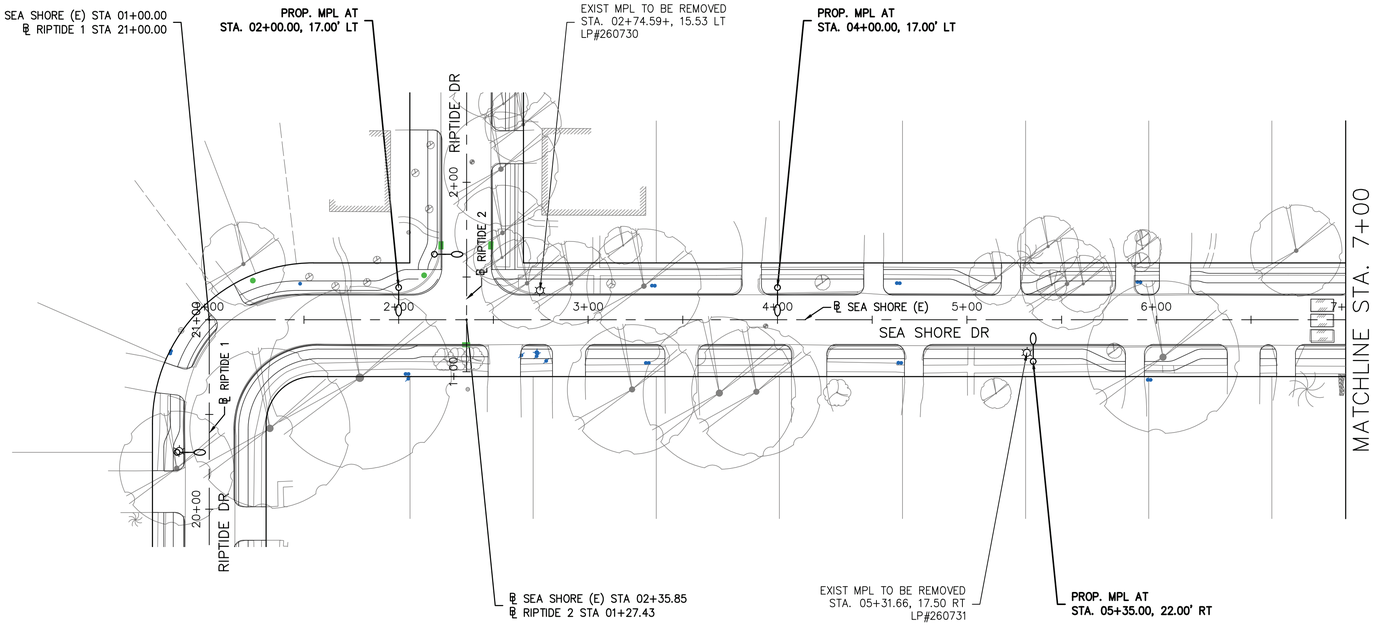
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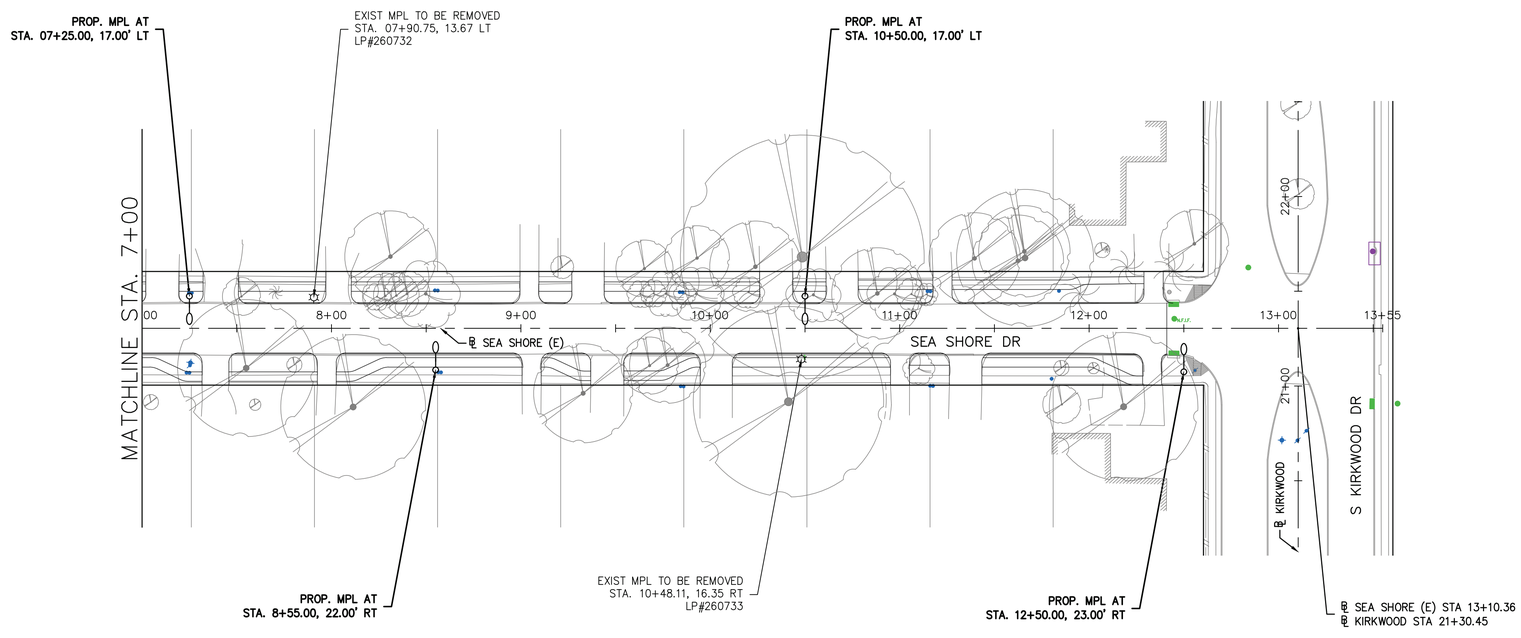
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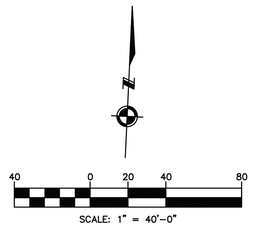
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WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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HORIZ: 1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 206 OF 369	

PLOT STYLE: Coh_ctb_220714.ctb PLOTTED: 8/7/2026 6:28 PM







NO.	DATE	REVISION	APP.

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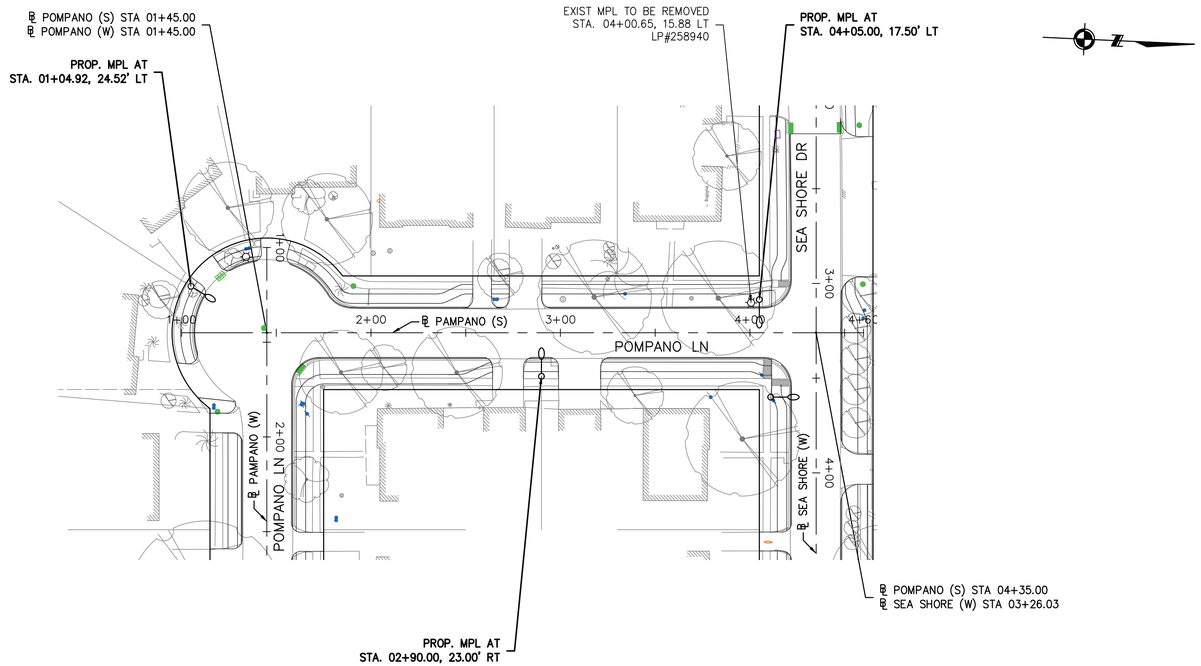
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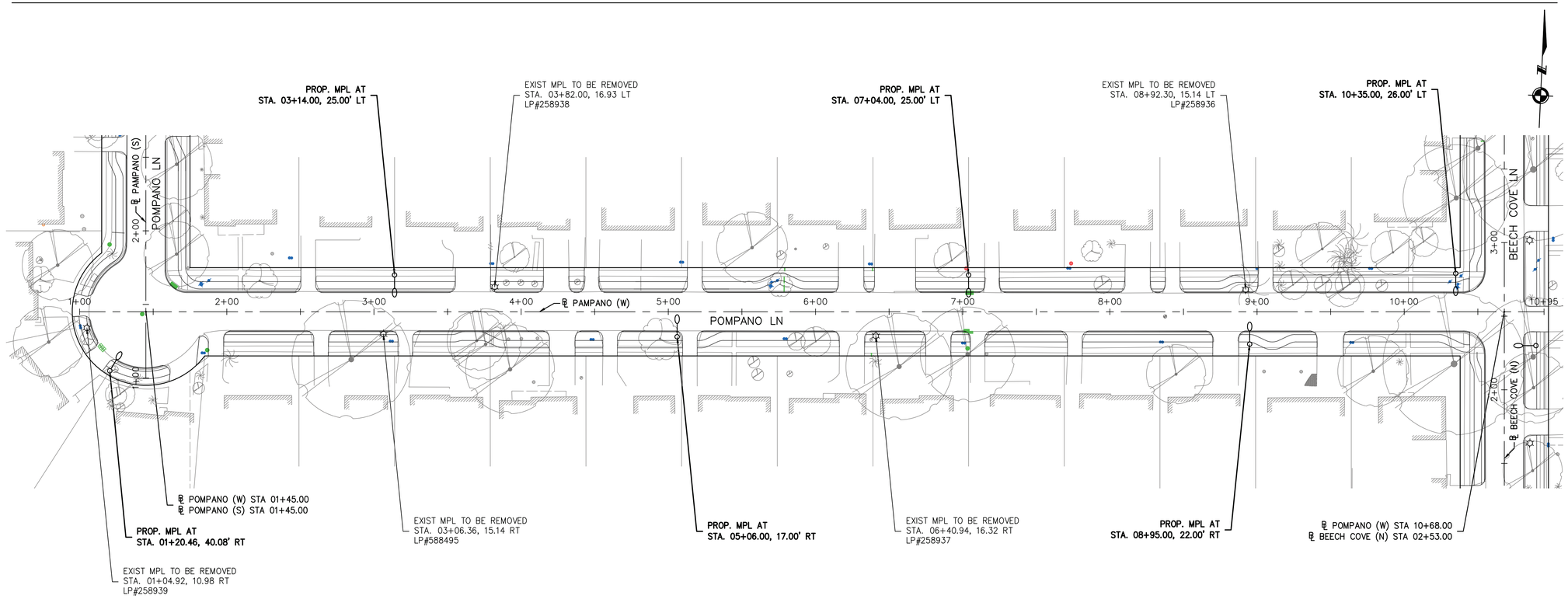
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HORIZ: 1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 207 OF 369	

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PLOT STYLE: Coh_ctb_220714.ctb PLOTTED: 8/7/2026 6:28 PM





NO.	DATE	REVISION	APP.

40 0 20 40 80

SCALE: 1" = 40'-0"

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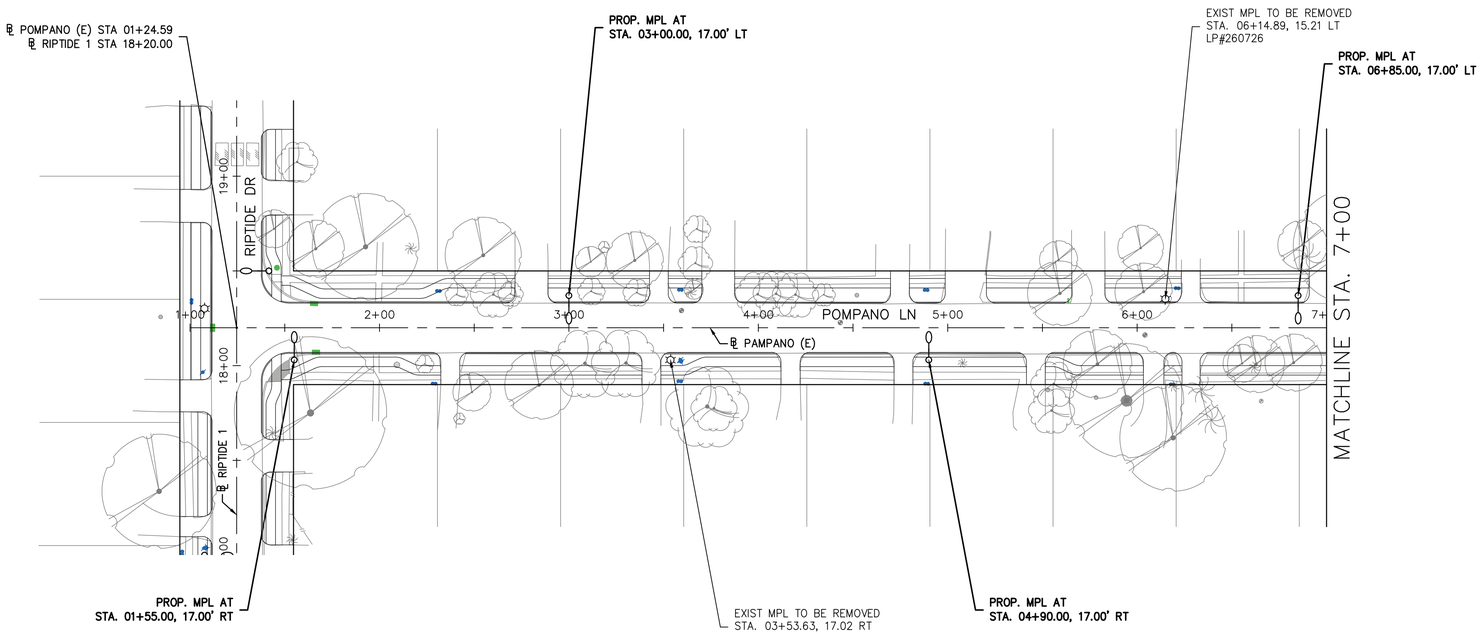
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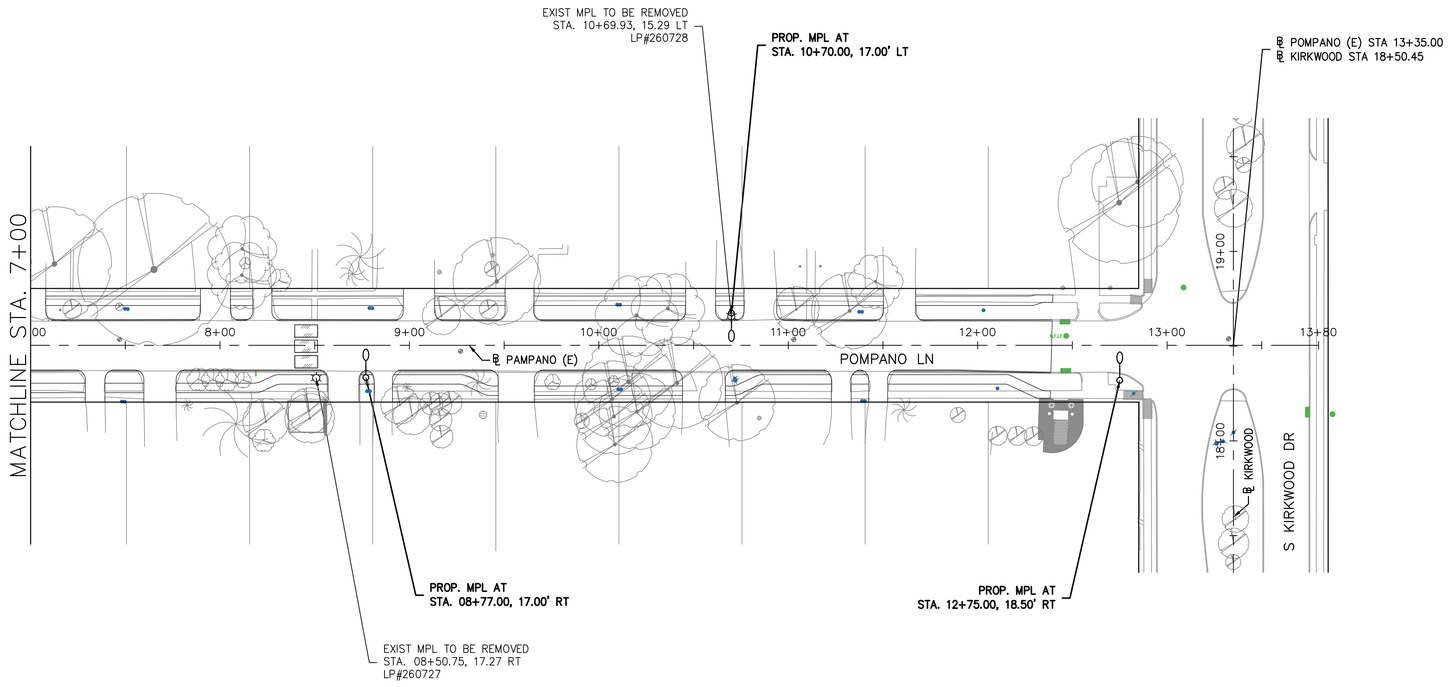
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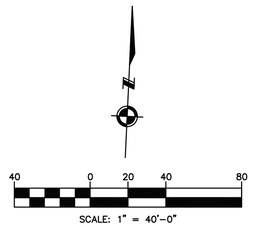
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SHEET NO. 208 OF 369	

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10300 WESTOFFICE DR. SUITE 800
HOUSTON, TX 77042
713-975-8769
TX FIRM NO.: F-4578

SURVEYED BY:
Kuo & Associates, LLC
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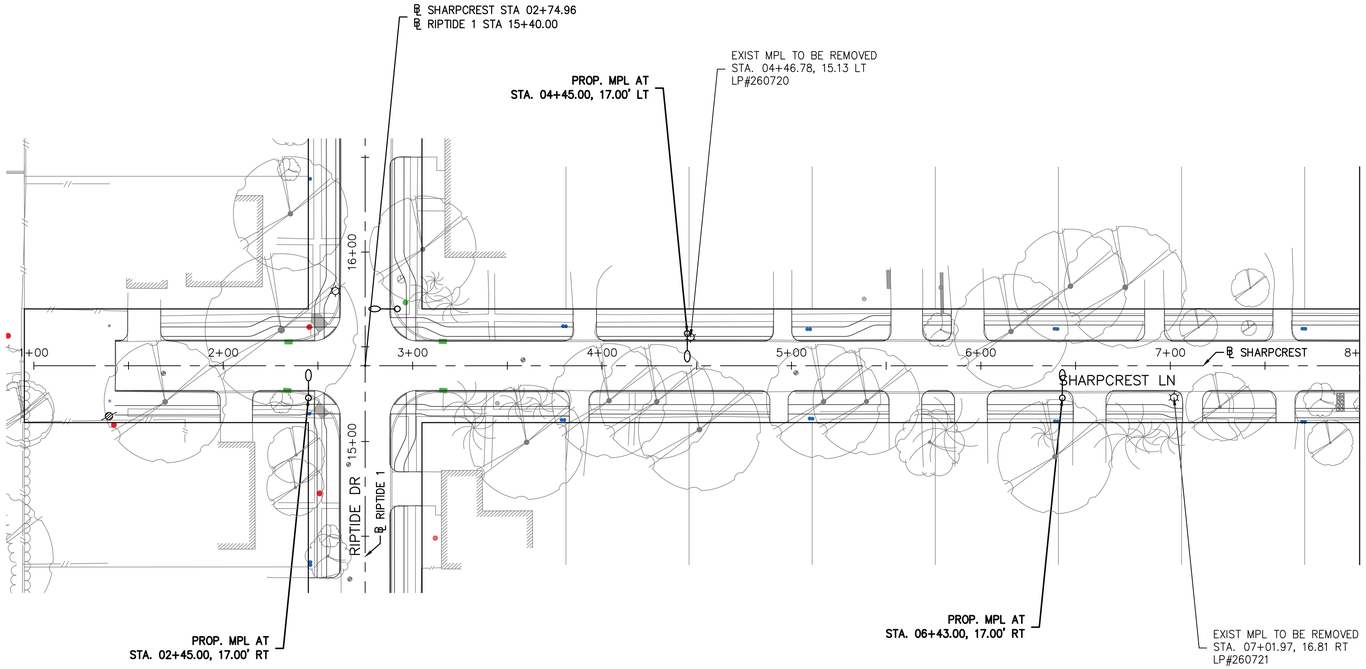
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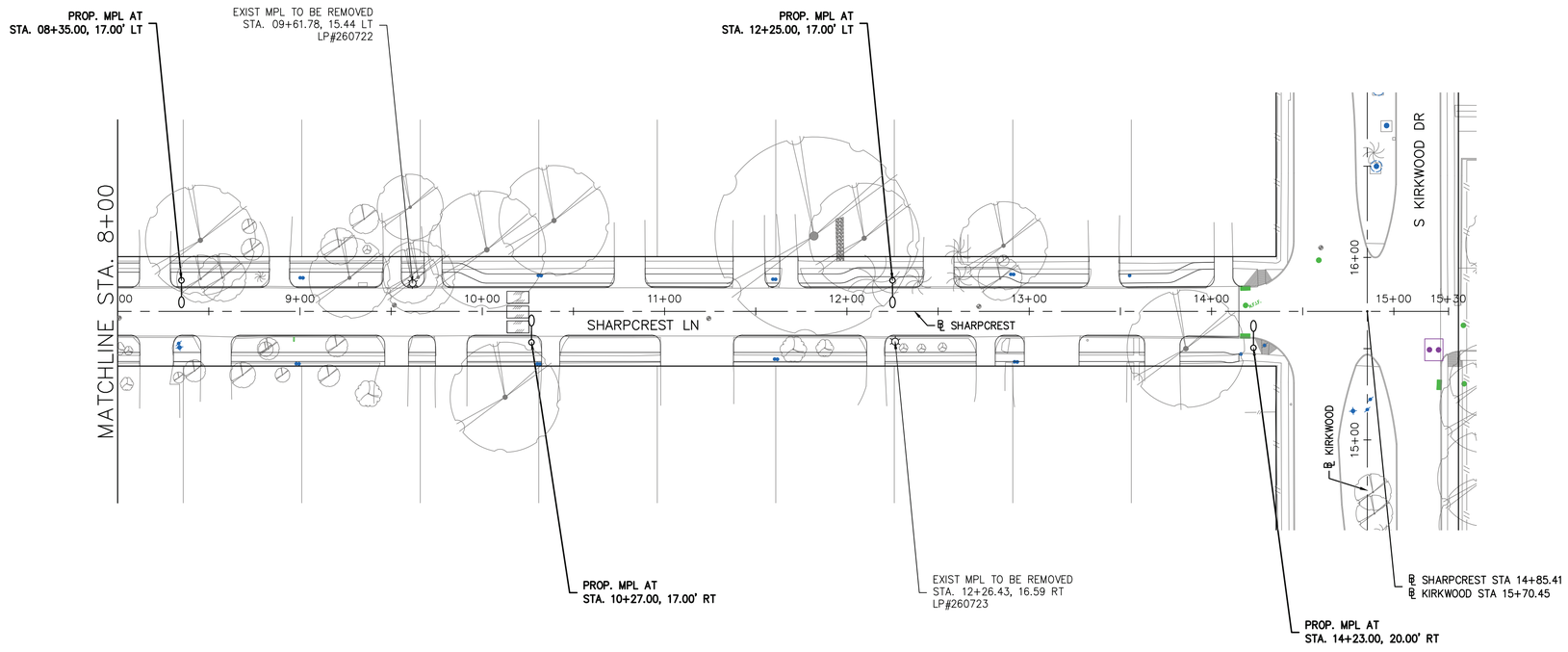
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HORIZ: 1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 209 OF 369	

FILE PATH: S:\Proj-2024\24058 (P23051-P19126 ALIEF FOREST S)\Dwgs\Design\24058-Street Lighting Sheets.dwg

PLOT STYLE: Coh_ctb_220714.ctb PLOTTED: 8/7/2026 6:29 PM





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N

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SCALE: 1" = 40'-0"

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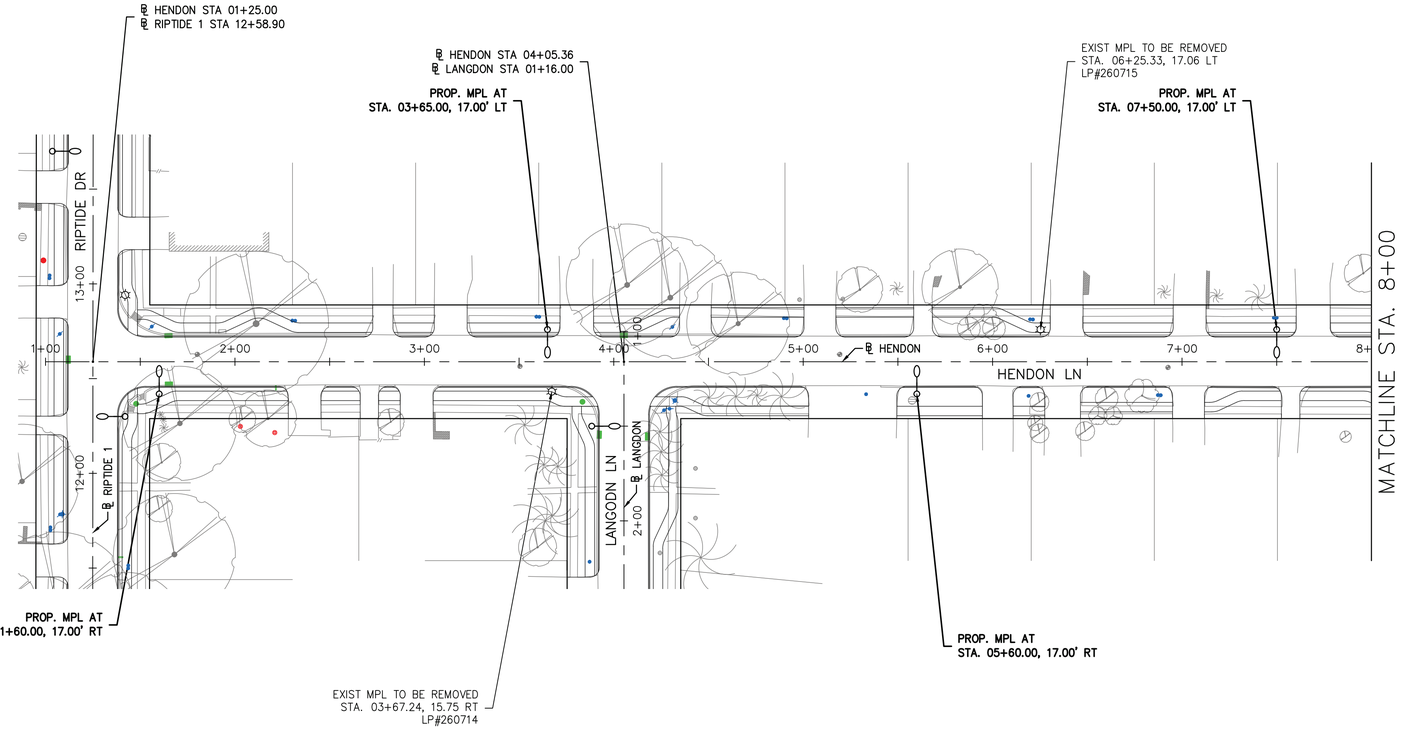
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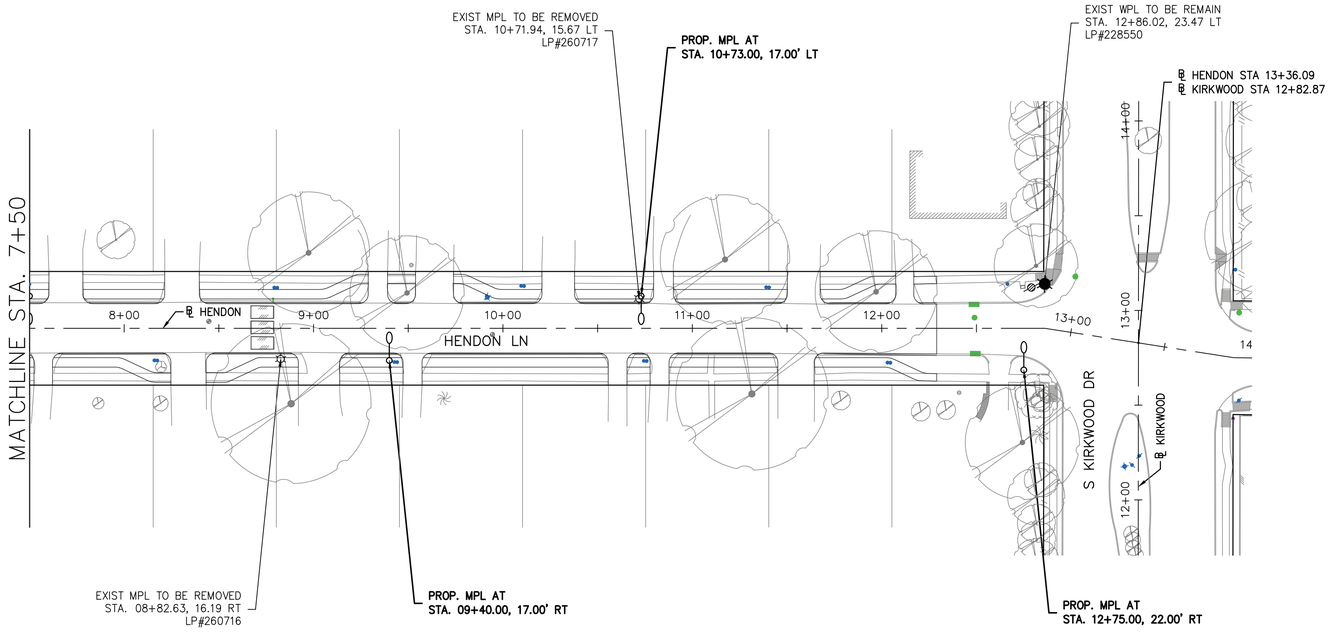
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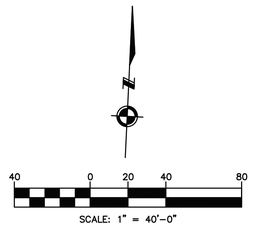
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ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 210 OF 369	

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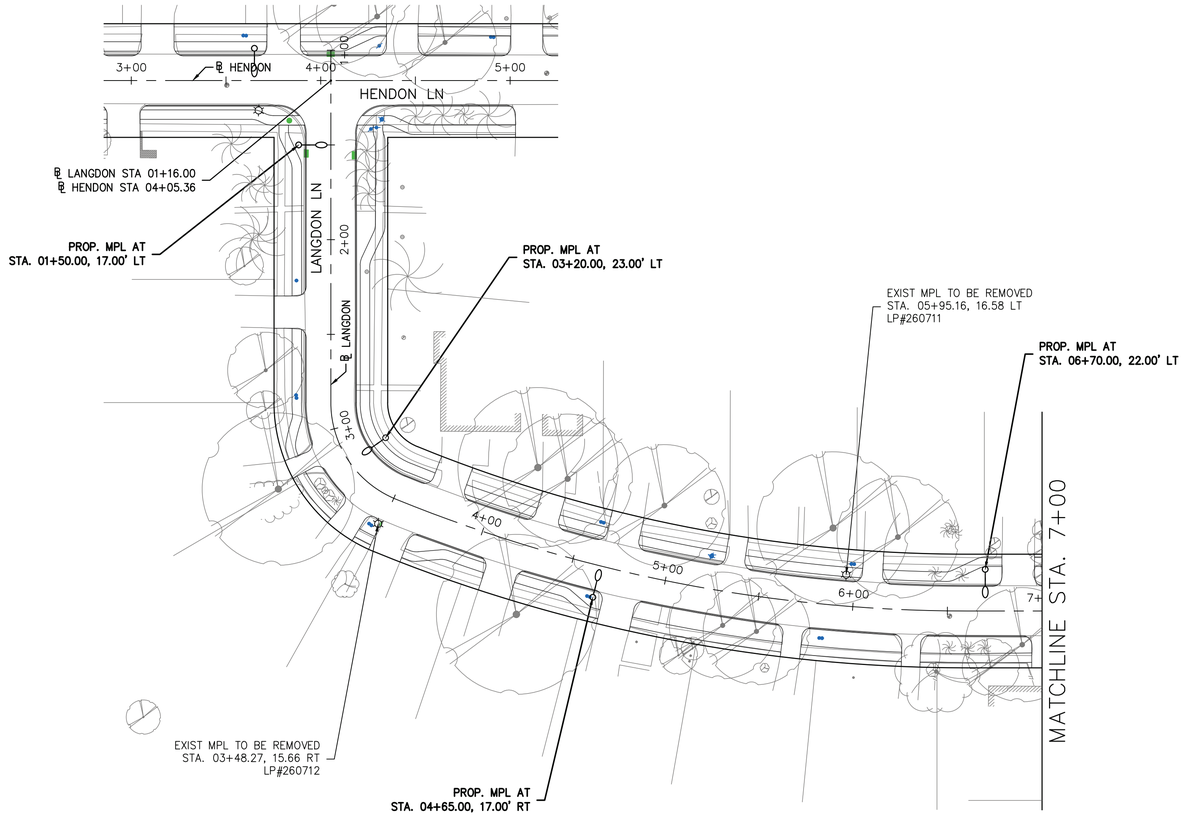
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HENDON LN

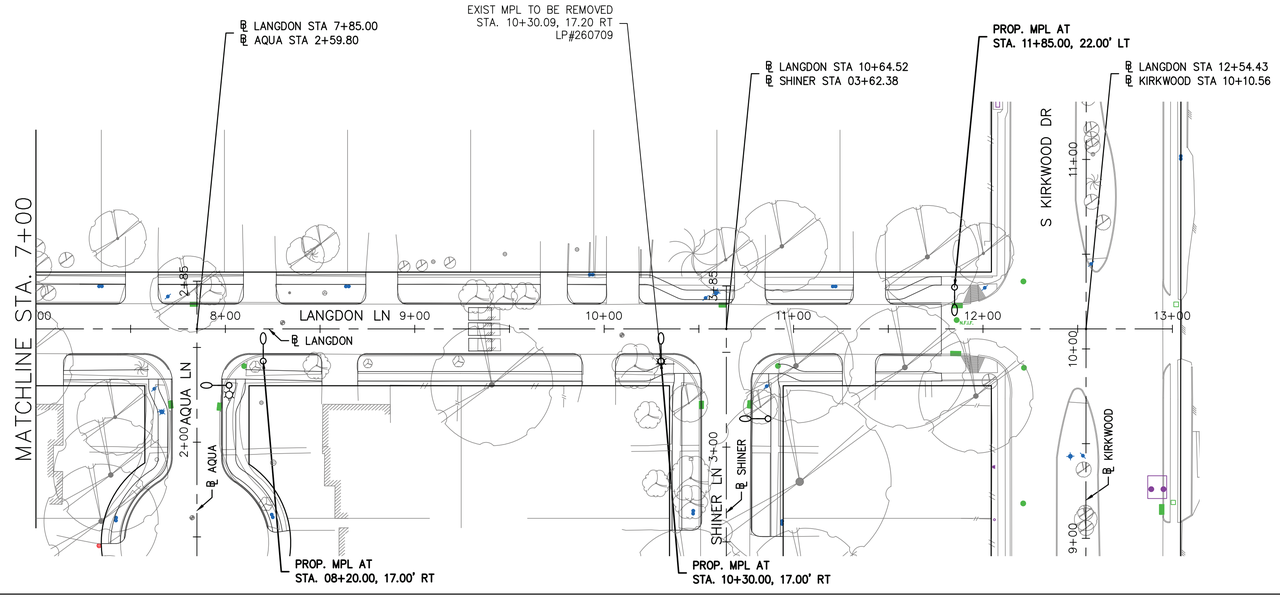
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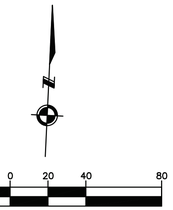
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ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 211 OF 369	

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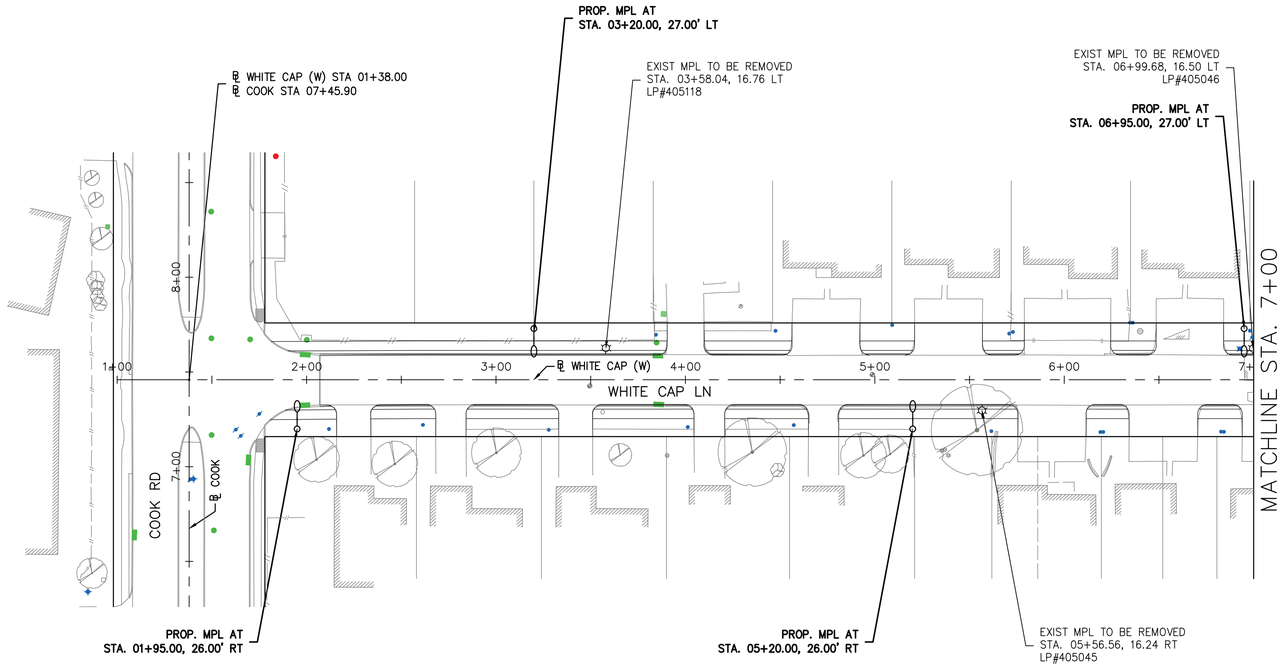
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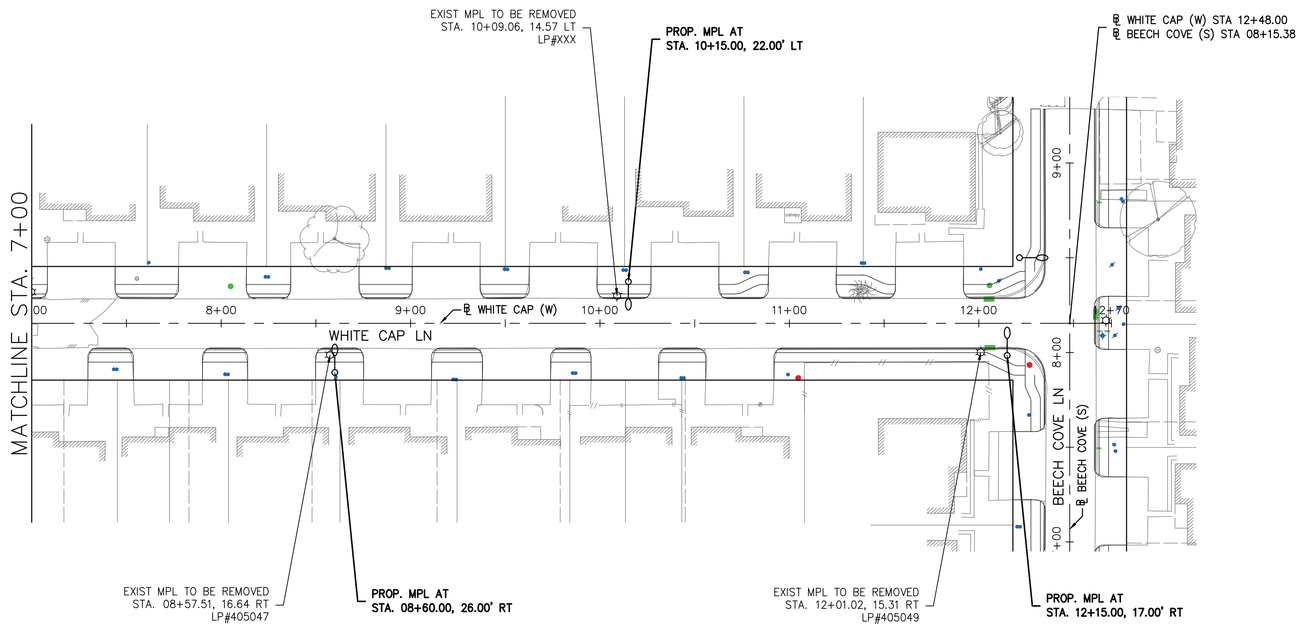
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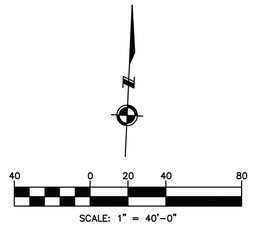
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CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 212 OF 369	

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PLOT STYLE: Coh_ctb_220714.ctb PLOTTED: 8/7/2026 6:30 PM







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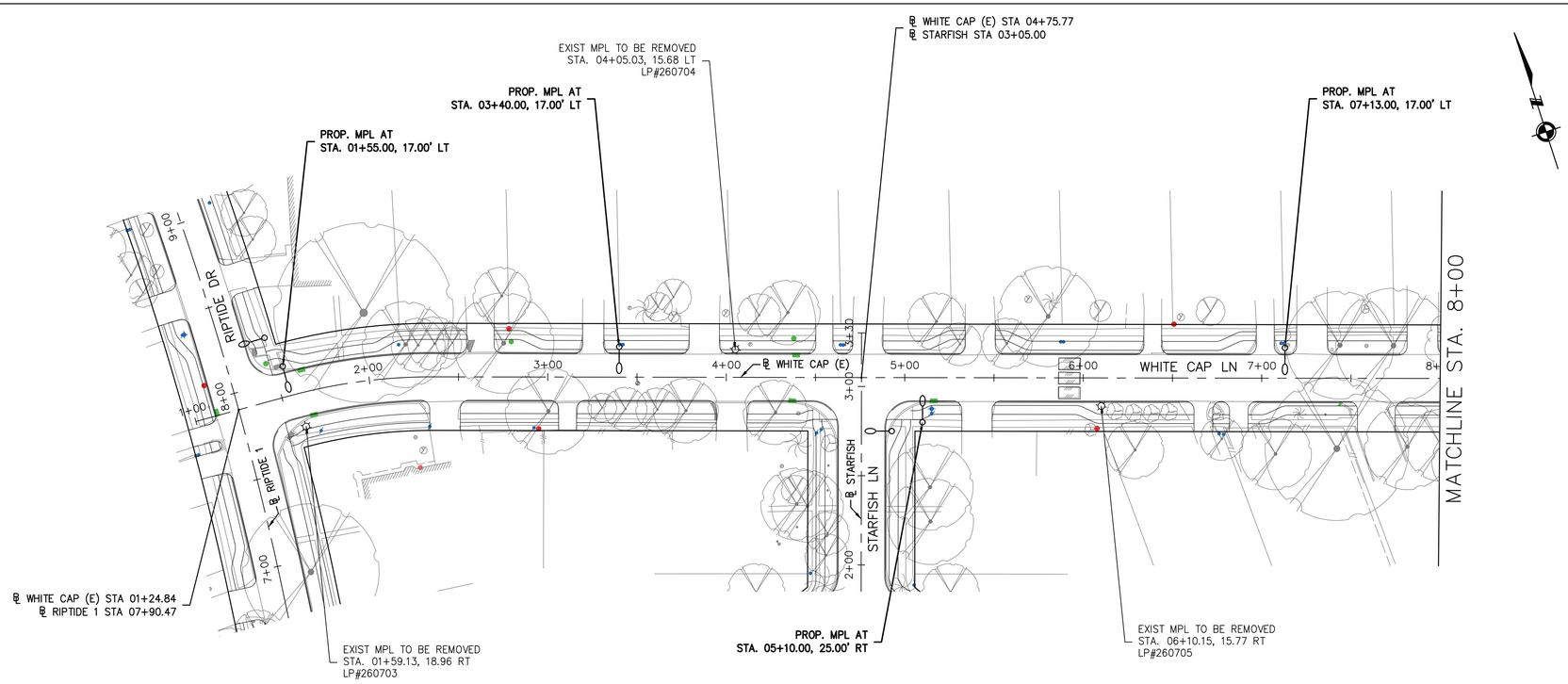
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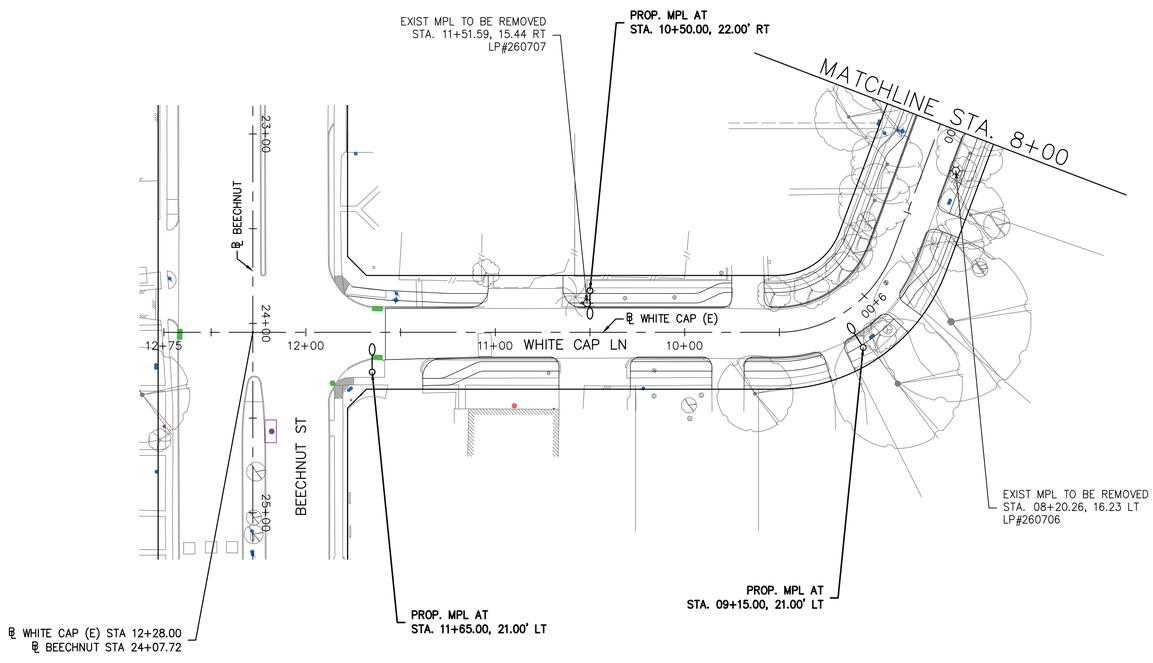
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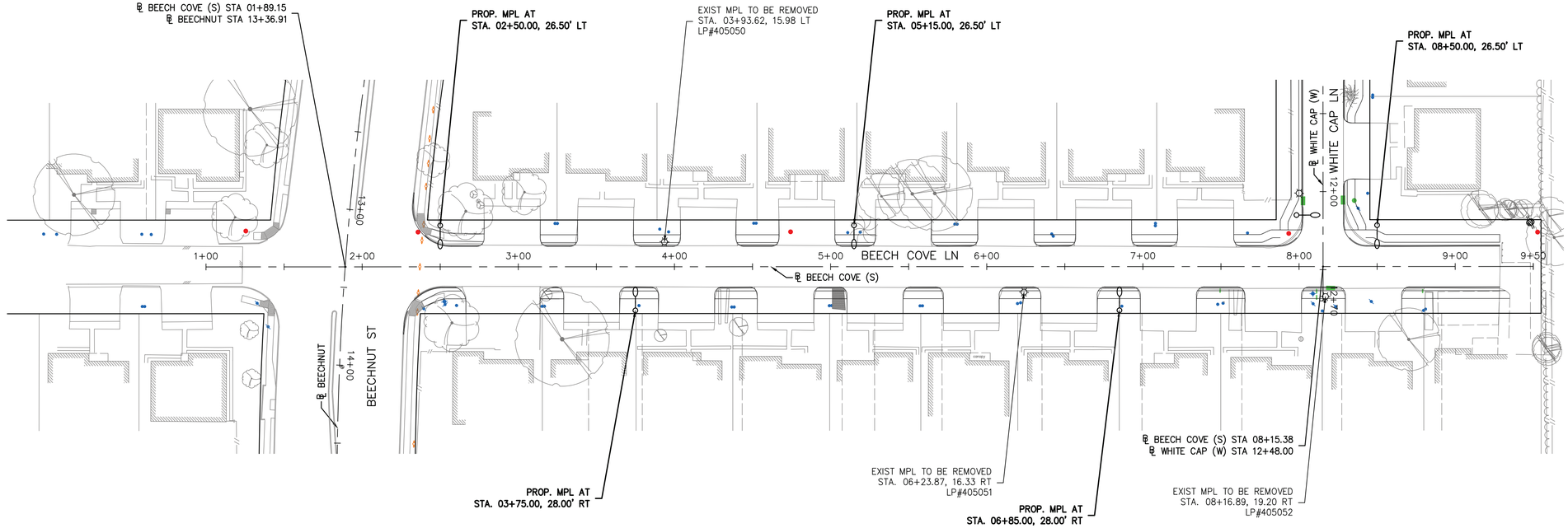
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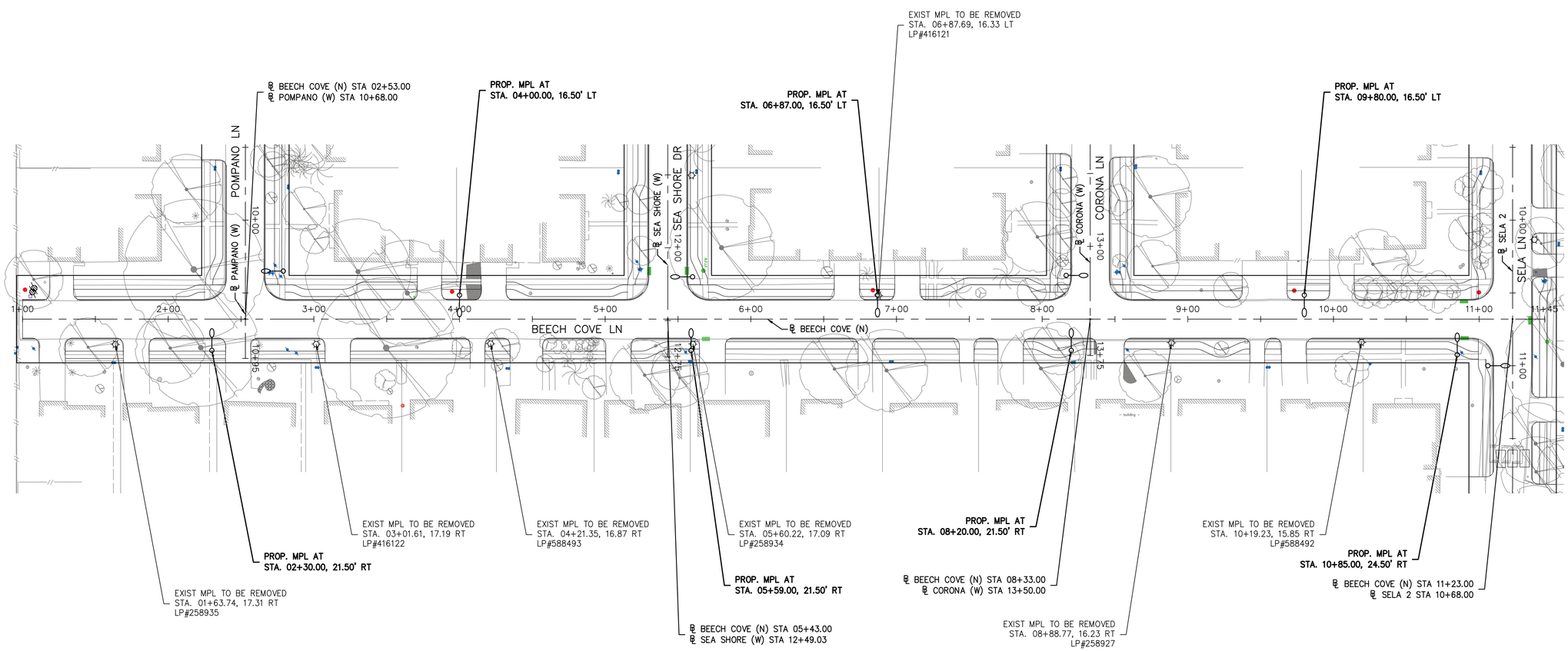
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ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 214 OF 369	

FILE PATH: S:\Proj-2024\24058 (P23051-P19126 ALIEF FOREST S)\Dwgs\Design\24058-Street Lighting Sheets.dwg

PLOT STYLE: Coh_ctb_220714.ctb PLOTTED: 8/7/2026 6:30 PM





NO.	DATE	REVISION	APP.

40 0 20 40 80

SCALE: 1" = 40'-0"

LEGENDS:

- EXISTING WOOD POLE W/ REMOVED OR NO LIGHT
- EXISTING WOOD POLE LIGHT (WPL) TO REMAIN
- EXISTING METAL POLE LIGHT (MPL) TO BE REMOVED
- EXISTING METAL POLE LIGHT (MPL) TO REMAIN
- PROPOSED METAL POLE LIGHT (MPL)
- PROPOSED PULL BOX
- PROPOSED 2" PVC CONDUIT

NOTES:

1. EXISTING STREET LIGHT POLES ARE TO BE REMOVED BY CENTERPOINT ENERGY. AFTER REMOVAL OF EXISTING POLE, CONTRACTOR SHALL DEMO ANY EXISTING POLE FOUNDATION TO MINIMUM 1' BELOW FINISHED GRADE.
2. CONTRACTOR TO REFER TO CENTERPOINT ENERGY SPECIFICATION NO. 007-371-08, LATEST REVISION FOR INFORMATION REGARDING STREET LIGHT CONDUIT INSTALLATION.
3. CONDUIT/ PULL BOX LAYOUT AS DETERMINED BY CENTERPOINT ENERGY.
4. FOR CONDUIT INSTALLATION IN EASEMENTS, AND UNDER SIDEWALKS, USE SCHEDULE 40 PVC. FOR CONDUIT INSTALLATION UNDER ROADWAYS, UNDER DRIVEWAYS, DITCH CROSSINGS, AND PIPELINE EASEMENTS USE SCHEDULE 80 PVC.
5. PROVIDE 6'-6"X6'-6" CONCRETE BLOCK OUT AREA IF LIGHT POLE IS LOCATED WITHIN CONCRETE AREA.
6. REFER TO DESIGN PLAN & PROFILE SHEETS FOR OTHER UTILITIES, LOCATED IN THE VICINITY OF THE PROPOSED STREET LIGHT POLES.
7. DO NOT PLACE PROPOSED STREET LIGHTS ON SIDEWALKS, WHEELCHAIR RAMPS OR UNDER HEAVY TREE CANOPIES WITHOUT APPROVAL FROM THE CITY OF HOUSTON CONSTRUCTION MANAGER.

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LOCATION OF CENTERPOINT ENERGY FACILITIES ARE APPROXIMATE AND HAVE NOT BEEN VERIFIED BY ACTUAL FIELD CHECK.

ISANI
civil \ design \ engineers
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Houston, Texas 77042
P 713 747 2399
F 713 748 3748
TBPE Firm Reg. #4575

KUO & ASSOCIATES
INCORPORATED SURVEYING
10300 WESTOFFICE DR. SUITE 800
HOUSTON, TX 77042
713-975-8769
TX FIRM NO.: F-4578

SURVEYED BY:
Kuo & Associates, LLC
FB NO.: P-6382

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

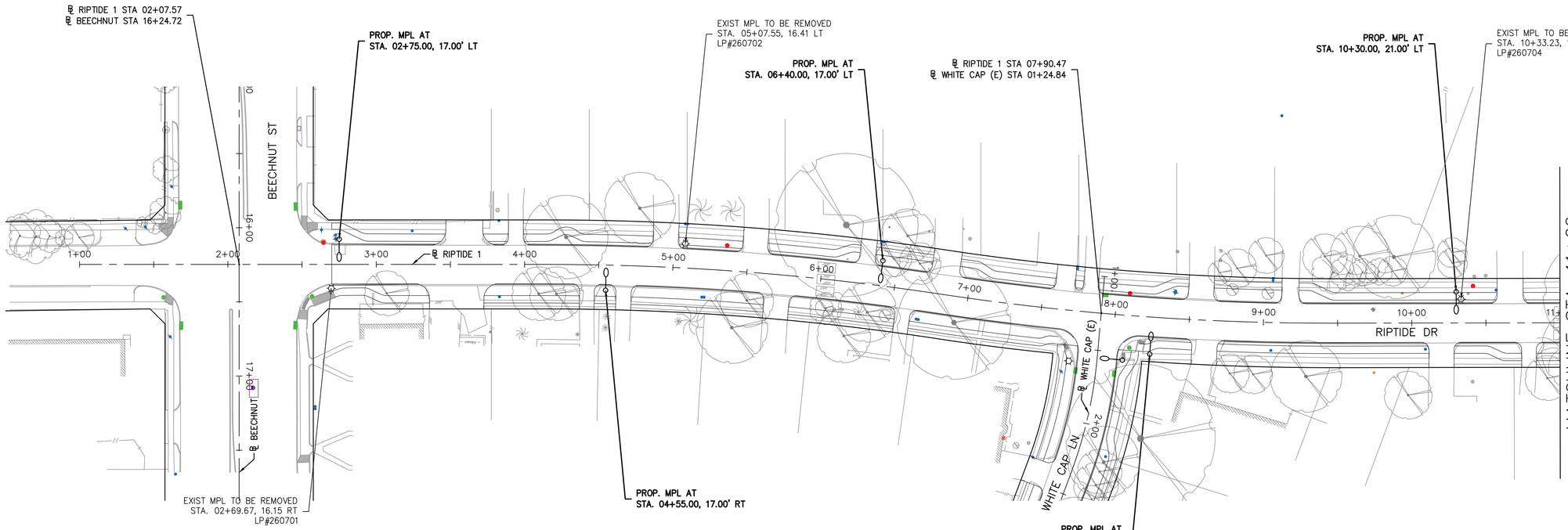
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
STREET LIGHTING PLANS
BEECH COVE LN

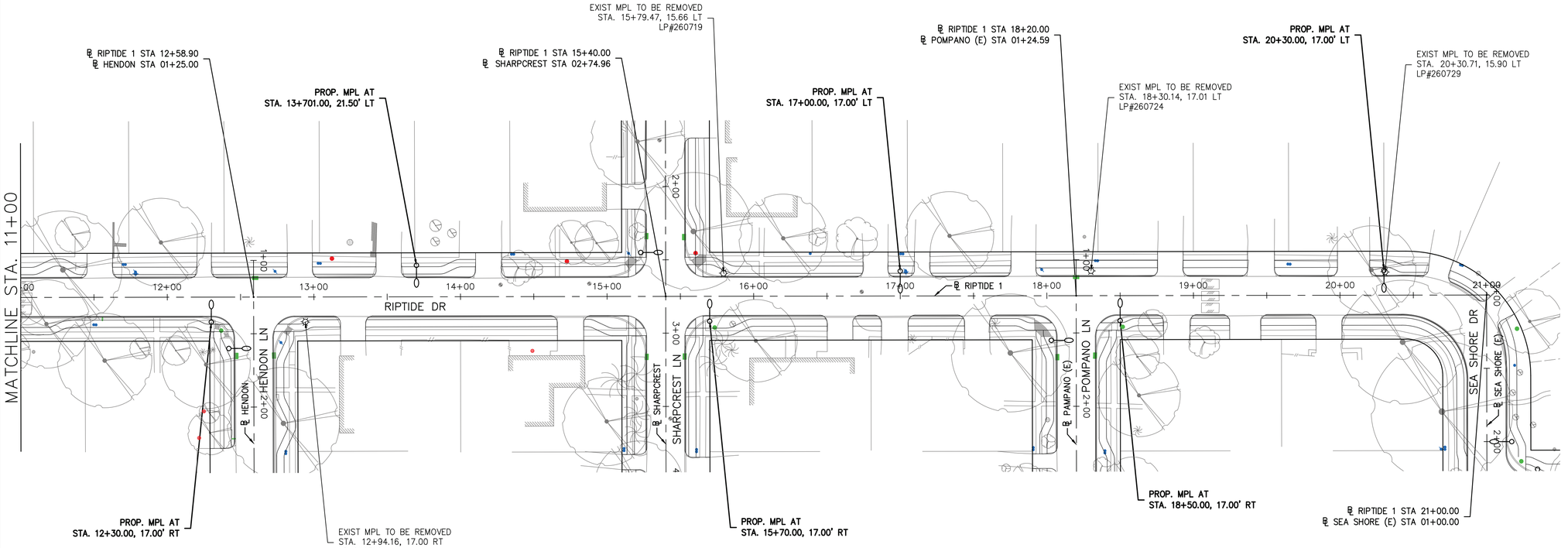
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WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
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HORIZ: 1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 215 OF 369	

FILE PATH: S:\Proj-2024\24058 (P23051-P19126 ALIEF FOREST S)\Dwgs\Design\24058-Street Lighting Sheets.dwg

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4. FOR CONDUIT INSTALLATION IN EASEMENTS, AND UNDER SIDEWALKS, USE SCHEDULE 40 PVC. FOR CONDUIT INSTALLATION UNDER ROADWAYS, UNDER DRIVEWAYS, DITCH CROSSINGS, AND PIPELINE EASEMENTS USE SCHEDULE 80 PVC.
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CENTERPOINT ENERGY NOTE:

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P 713 747 2399
F 713 748 3748
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10300 WESTOFFICE DR. SUITE 800
HOUSTON, TX 77042
713-975-8769
TX FIRM NO.: F-4578

SURVEYED BY:
Kuo & Associates, LLC
FB NO.: P-6382

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TEXAS REG. NO.: 111684
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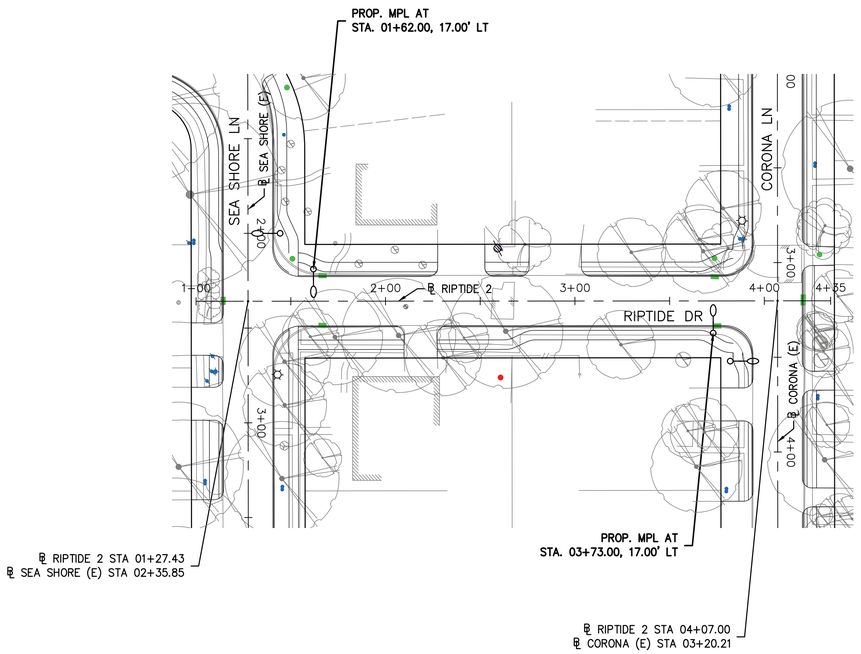
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
STREET LIGHTING PLANS
RIPTIDE DR

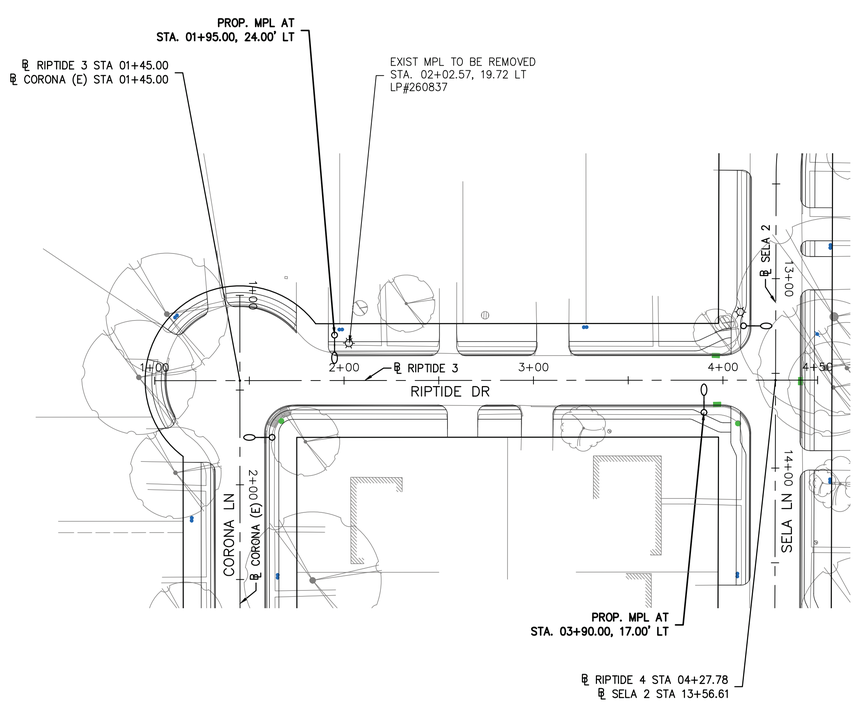
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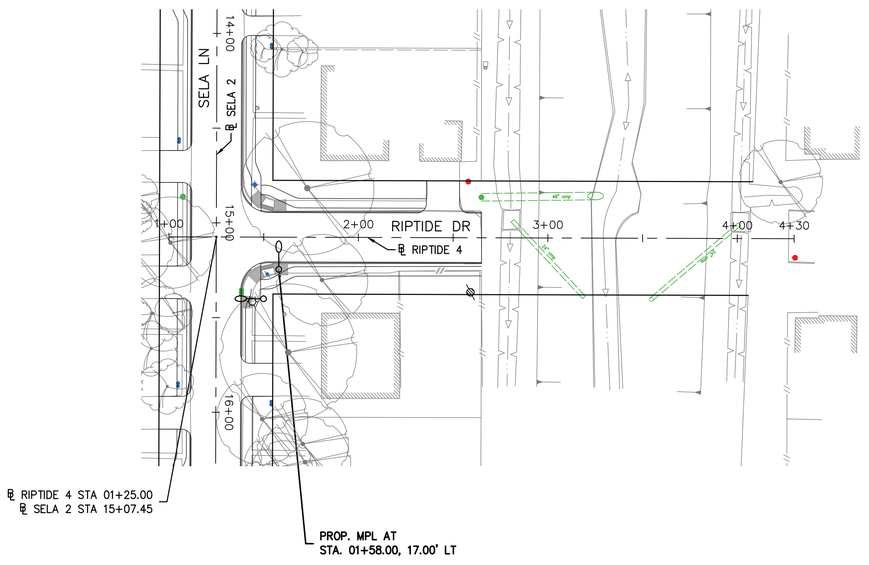
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CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 216 OF 369	

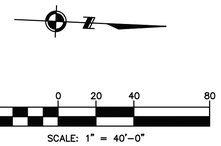
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PLOT STYLE: Coh_ctb_220714.ctb PLOTTED: 8/7/2026 6:31 PM









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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
STREET LIGHTING PLANS
RIPTIDE DR

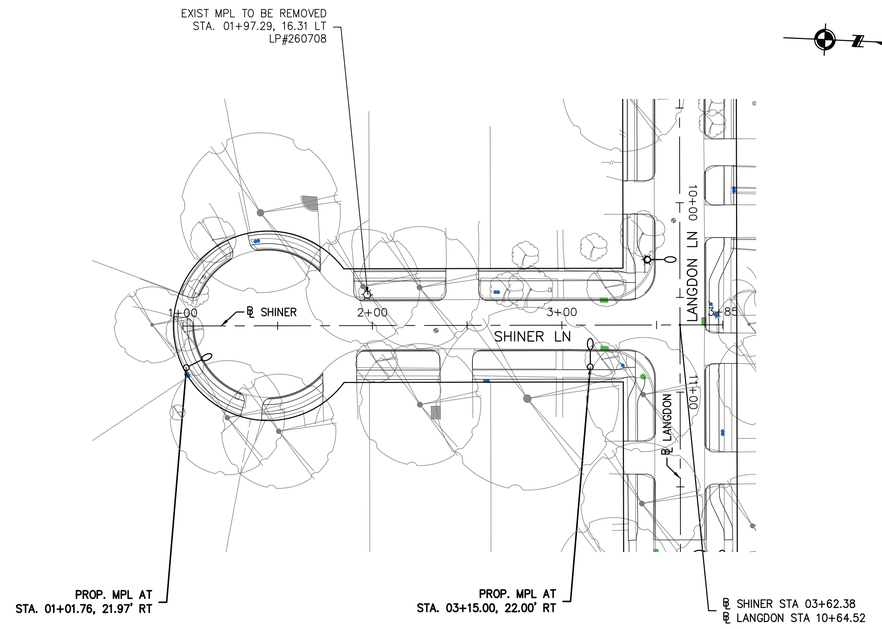
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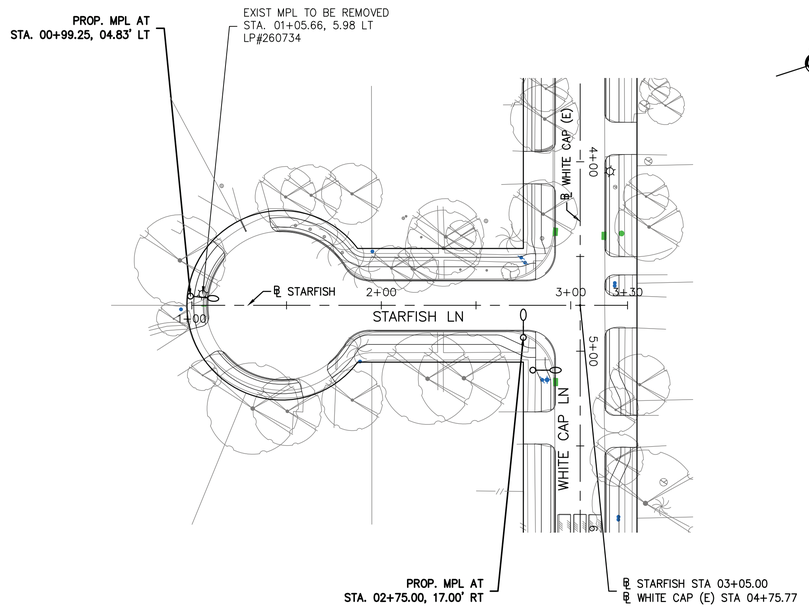
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ROBERT C. MILES, P.E., CCM, ENV SP	
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10300 WESTOFFICE DR. SUITE 800
HOUSTON, TX 77042
713-975-8769
TX FIRM NO.: F-4578

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CITY OF HOUSTON

HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

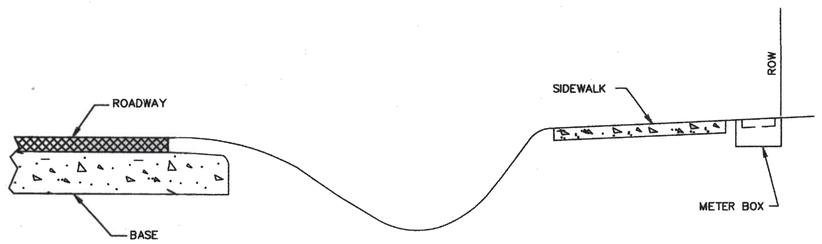
STREET LIGHTING PLANS
AQUA LN, SHINER LN AND STARFISH LN

(SHEET 17 OF 17)

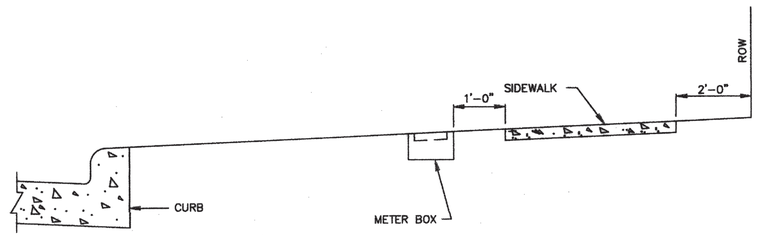
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CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 218 OF 369	

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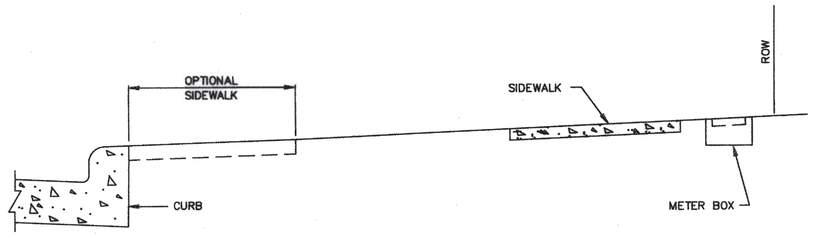
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OPEN DITCH STREET

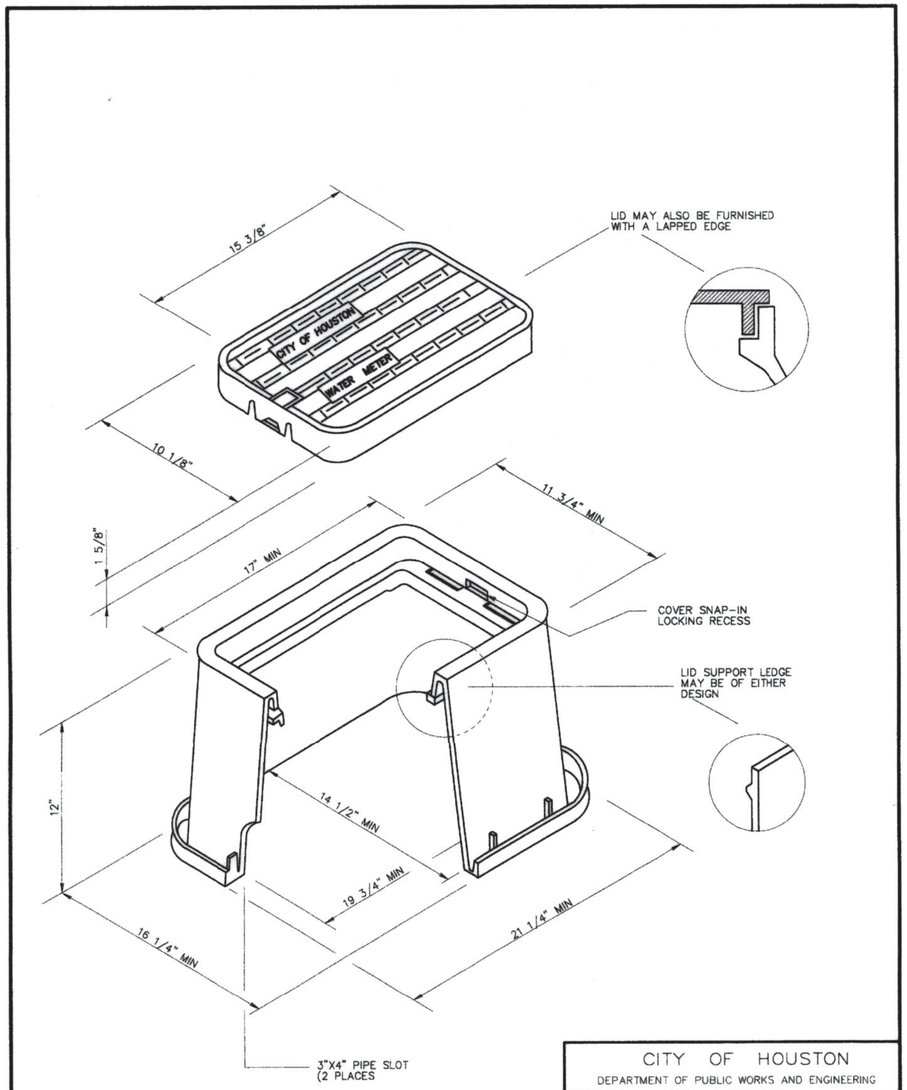


CURB STREET



CURB STREET

CITY OF HOUSTON	
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING	
LOCATION OF WATER METER BOX FOR 2" DIAMETER AND LESS	
APPROVED BY: CITY ENGINEER	APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: JUL-01-2010	DWG NO: 02085-02



NOTE

1. LID MUST BE ABLE TO ACCEPT THE CITY'S AMR TRANSMITTING ENDPOINT.

CITY OF HOUSTON	
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING	
STANDARD PLASTIC METER BOX FOR 5/8" AND 1" METERS (NOT TO SCALE)	
APPROVED BY: CITY ENGINEER	APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: JUL-01-2010	DWG NO: 02085-01

NO.	DATE	REVISION	APP.

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Houston, Texas 77042
P 713 747 2399
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SURVEYED BY: Kuo&Associates
FB NO. P-6382

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
WATERLINE
STANDARD DETAILS

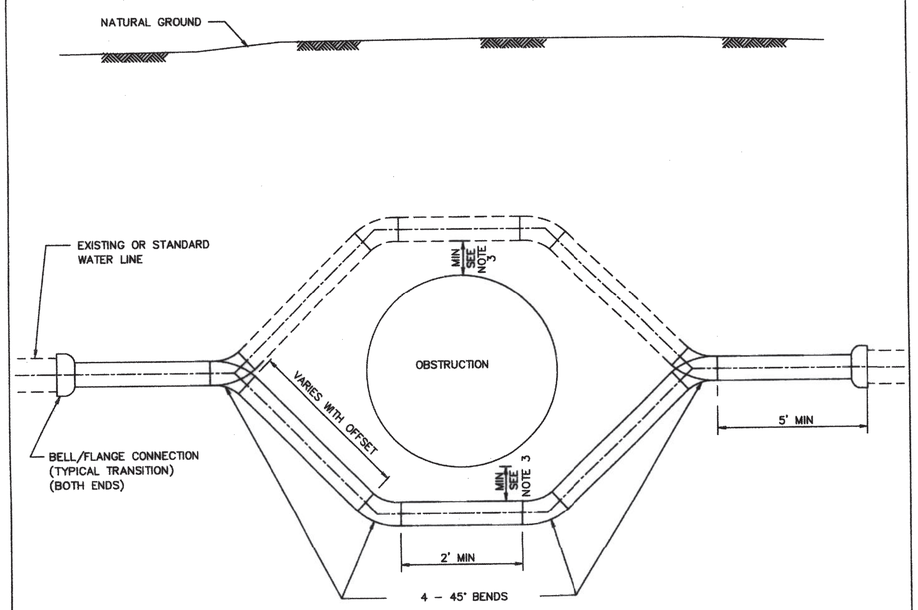
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ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 219 OF 369	

FILE PATH: P:\ACTIVE\18PV97 - 2024 Update\Ph II\Working\CAD\18PV97_Standard Details_Water.dwg

NOTE:

1. MATERIALS AND COATINGS TO BE IN ACCORDANCE WITH WATER LINE STANDARD SPECIFICATIONS.
2. RESTRAIN EXISTING PIPING BEYOND STEEL SECTION AS REQUIRED TO PREVENT MOVEMENT.
3. AS PER DESIGN GUIDELINE.



PIPE OFFSET ALTERNATES

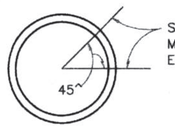
1. DUCTILE IRON PIPE PRESSURE 250 PSI WITH APPROVED RESTRAINED JOINTS.
2. PVC PIPE WITH INTEGRAL RESTRAINED JOINT SYSTEM, OR DUCTILE – IRON RESTRINED JOINT FITTINGS, EPOXY LINED AND COATED. USE 250 PSI AWWA C900 DR 14 FOR PVC RESTRAINED JOINTS.
3. PVC NOT ALLOWED FOR GREATER THAN 20 FT OF COVER OR FOR DIAMETER LARGER THAN 20 IN.
4. USE ONLY DUCTILE IRON AND PVC PRODUCTS LISTED ON OCE DIVISION APPROVED PRODUCTS LIST AND IN ACCORDANCE WITH CITY STANDARD SPECIFICATIONS.

CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING	
TYPICAL STEEL PIPE OFFSET SECTION FOR WATER LINES (NOT TO SCALE)	
APPROVED BY: CITY ENGINEER	APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: JULY-01-2010	DWG NO: 02511-01

PIPE TAPPING SCHEDULE

WATER MAIN TYPE AND DIAMETER	SERVICE SIZE			
	3/4"	1"	1 1/2"	2"
4" CAST IRON OR DUCTILE IRON	DSS, WBSS	DSS, WBSS	DSS, WBSS	DSS, WBSS
4" ASBESTOS (EXISTING) CEMENT	WBSS	WBSS	DSS, WBSS	DSS, WBSS
4" PVC (AWWA C900)	DSS, WBSS	DSS, WBSS	DSS, WBSS	DSS, WBSS
6" AND 8" CAST IRON OR DUCTILE IRON	DSS, WBSS	DSS, WBSS	DSS, WBSS	DSS, WBSS
6" AND 8" ASBESTOS (EXISTING) CEMENT	DSS, WBSS	DSS, WBSS	DSS, WBSS	DSS, WBSS
6" AND 8" CAST IRON OR DUCTILE IRON	DSS, WBSS	DSS, WBSS	DSS, WBSS	DSS, WBSS
6" AND 8" PVC (AWWA C900)	DSS, WBSS	DSS, WBSS	DSS, WBSS	DSS, WBSS
12" CAST IRON OR DUCTILE IRON	DSS, WBSS	DSS, WBSS	DSS, WBSS	DSS, WBSS
12" ASBESTOS (EXISTING) CEMENT	DSS, WBSS	DSS, WBSS	DSS, WBSS	DSS, WBSS
12" PVC (AWWA C900)	DSS, WBSS	DSS, WBSS	DSS, WBSS	DSS, WBSS
16" AND UP CAST IRON OR DUCTILE IRON	DWBSS	DWBSS	DWBSS	DWBSS
16" AND UP ASBESTOS (EXISTING) CEMENT	DWBSS	DWBSS	DWBSS	DWBSS
16" AND UP PVC (AWWA C900)	DWBSS	DWBSS	DWBSS	DWBSS

DSS - DUAL STRAP SADDLES
WBSS - WIDE BAND STRAP SADDLES
DWBSS - DUAL WIDE BAND STRAP SADDLES



SERVICE TAPS TO BE MADE IN THIS ZONE EXCEPT FOR PVC FASTTAP

BLOW-OFF & CHLORINATION TAPS ARE MADE IN VERTICAL POSITION



WIDE BAND SINGLE SADDLE OR DUAL SADDLES

CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING	
SERVICE TAPS (NOT TO SCALE)	
APPROVED BY: CITY ENGINEER	APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: JUL-01-2010	DWG NO: 02512-02

NO.	DATE	REVISION	APP.

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F 713 748 3748
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SURVEYED BY: Kuo&Associates
FB NO. P-6382

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ENGINEER: RAHUL B MENON, P.E
P.E.Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

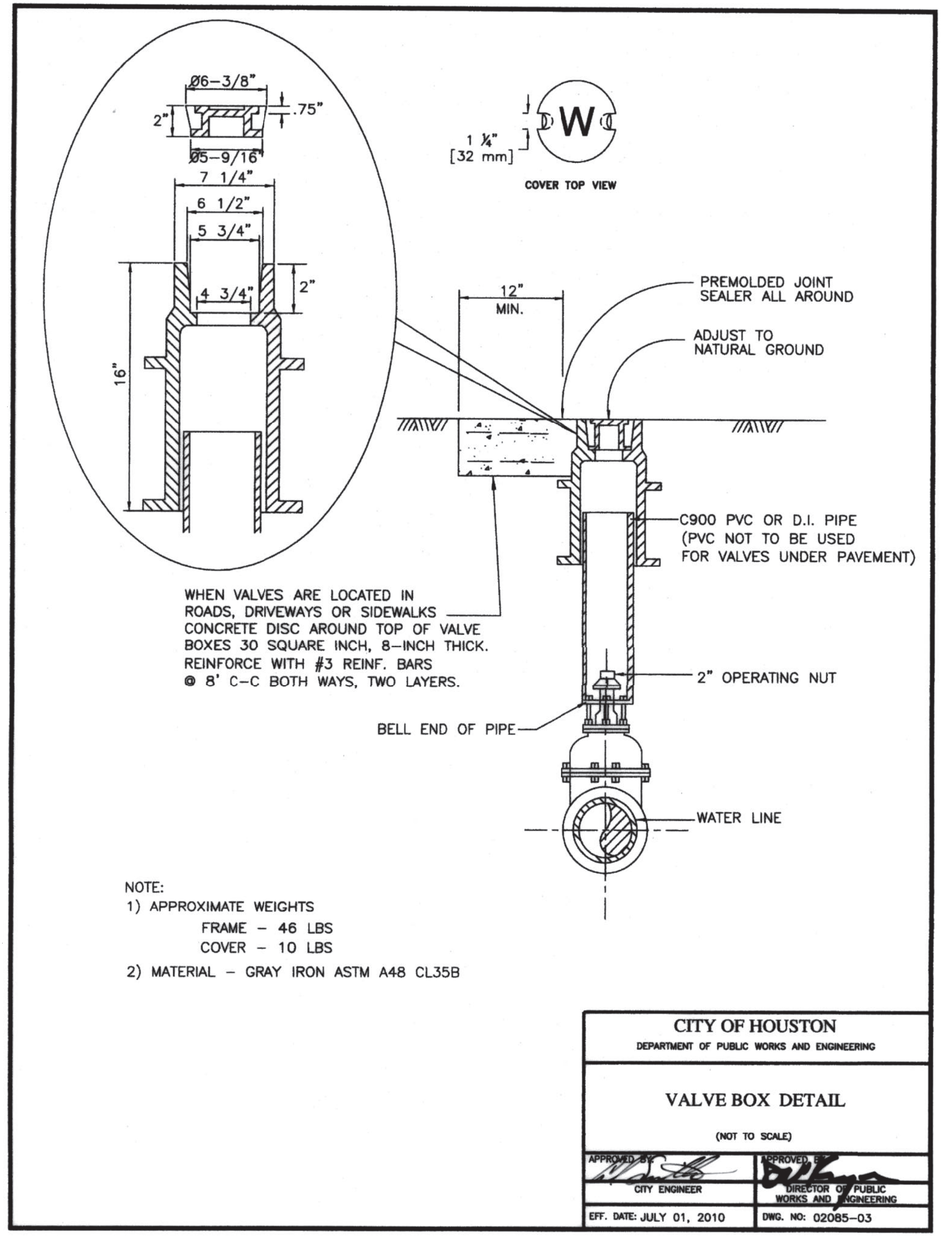
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

WATERLINE STANDARD DETAILS

SHEET 2 OF 6

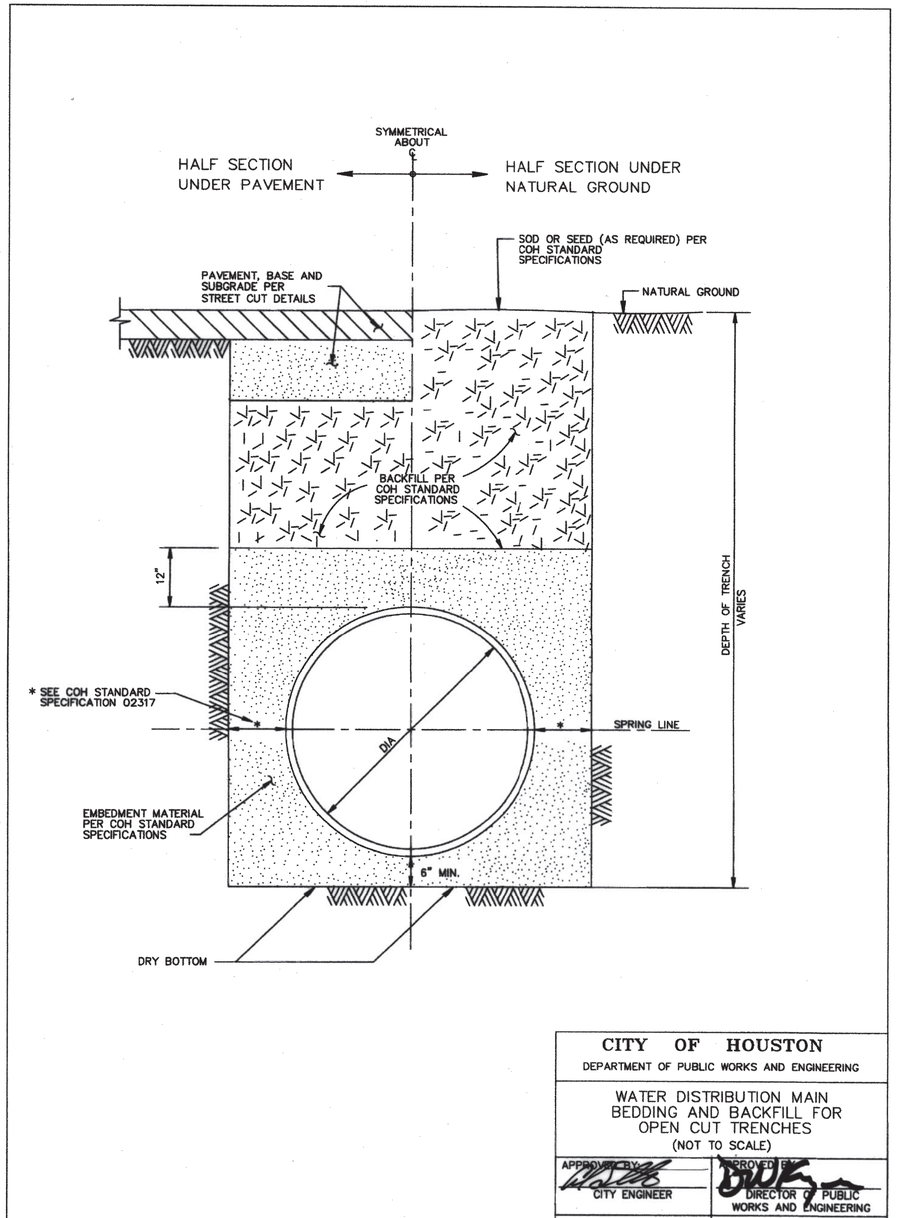
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DRAWING SCALE	
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CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 220 OF 369	

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NOTE:
1) APPROXIMATE WEIGHTS
FRAME – 46 LBS
COVER – 10 LBS
2) MATERIAL – GRAY IRON ASTM A48 CL35B

CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING	
VALVE BOX DETAIL (NOT TO SCALE)	
APPROVED BY: CITY ENGINEER	APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF. DATE: JULY 01, 2010	DWG. NO: 02085-03



COH

CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING	
WATER DISTRIBUTION MAIN BEDDING AND BACKFILL FOR OPEN CUT TRENCHES (NOT TO SCALE)	
APPROVED BY: CITY ENGINEER	APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: JUL-01-2010	DWG NO: 02317-04

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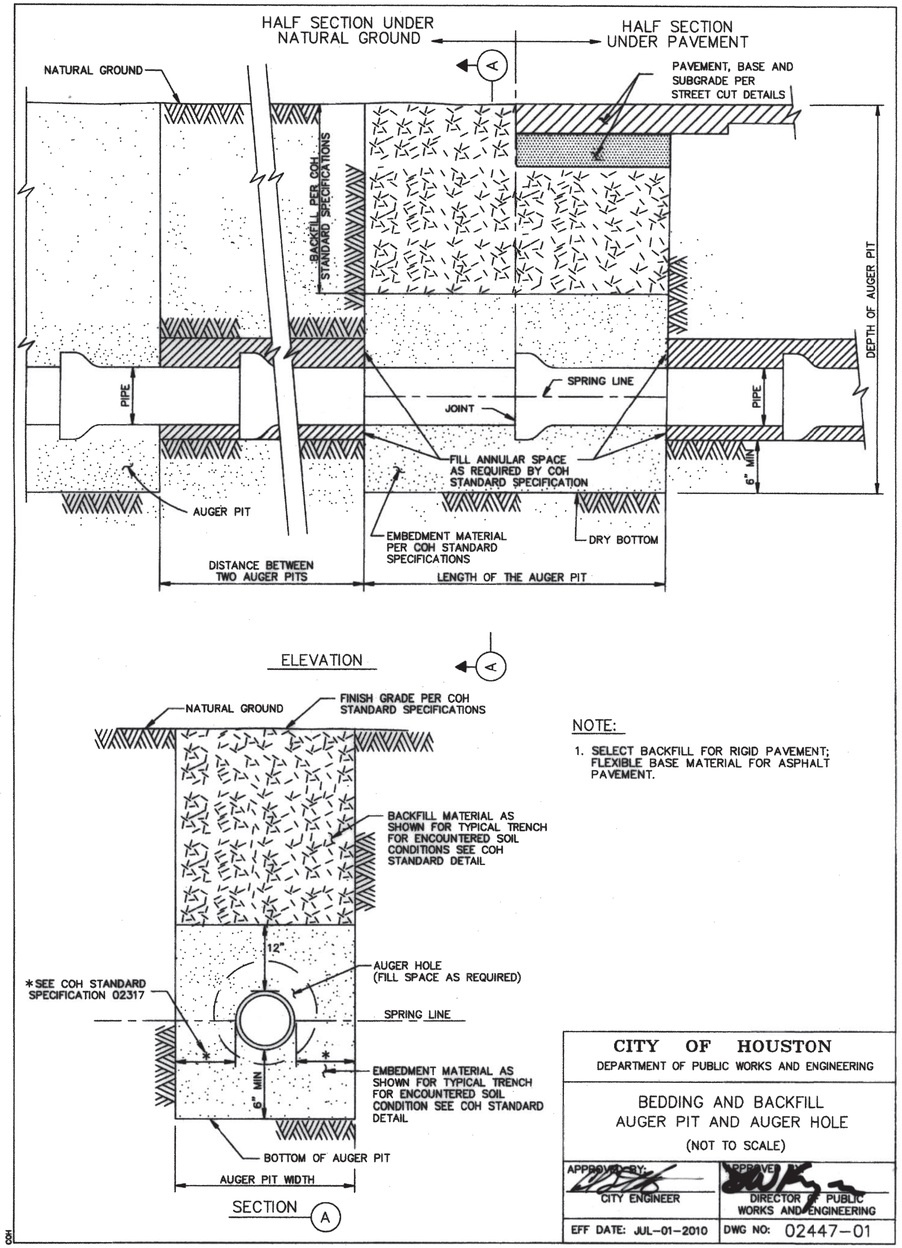
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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
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ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
WATERLINE
STANDARD DETAILS
SHEET 3 OF 6

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NOT TO SCALE	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 221 OF 369	

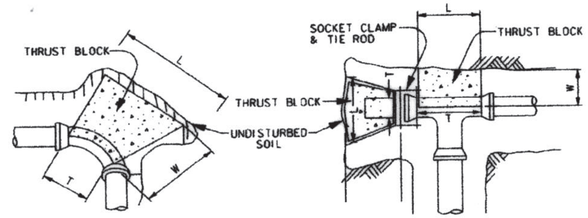
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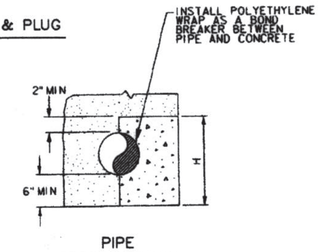


NOTE:

1. SELECT BACKFILL FOR RIGID PAVEMENT; FLEXIBLE BASE MATERIAL FOR ASPHALT PAVEMENT.

CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING	
BEDDING AND BACKFILL AUGER PIT AND AUGER HOLE (NOT TO SCALE)	
APPROVED BY: CITY ENGINEER	APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: JUL-01-2010	DWG NO: 02447-01





MINIMUM BLOCKING DIMENSION IN INCHES												
PIPE SIZE	90° BEND				45° BEND				TEE/PLUG			
	W	H	L	T	W	H	L	T	W	H	L	T
4"	6	12	14	10	6	8	11	8	6	10	12	12
6"	8	14	26	12	8	14	14	12	8	14	19	19
8"	10	16	40	16	10	18	20	16	10	18	26	26
10"	12	24	42	18	12	22	25	18	12	24	30	30
12"	14	36	40	30	14	26	30	22	14	26	40	40

CORRECTION FACTORS		
SOIL TYPE	SOIL BEARING STRENGTH S_b (lb/ft²)	MULTIPLY "L" AND "H" BY
SOFT CLAY	1000	1.73
SILT	1500	1.41
SANDY SILT	3000	1.00
SAND	4000	0.87
SANDY CLAY	6000	0.71
HARD CLAY	9000	0.58

NOTES:

1. DEPTH "W" MAY BE GREATER THAN SPECIFIED TO ALLOW WORKING SPACE.
2. BLOCKING MUST BE PLACED AGAINST UNDISTURBED EARTH. WHERE THIS IS NOT POSSIBLE, THE FILL BETWEEN THE BEARING SURFACE AND UNDISTURBED SOIL MUST BE COMPACTED TO AT LEAST 90% STANDARD PROCTOR DENSITY.
3. PROVIDE CONCRETE IN ACCORDANCE WITH STANDARD SPECIFICATION SECTION 03315 – CONCRETE FOR UTILITY CONSTRUCTION.
4. BLOCKING DIMENSIONS SHOWN ARE BASED ON 3000 PSI SOIL BEARING STRENGTH AND 125 PSI INTERNAL WATER PRESSURE. FOR OTHER SOIL CONDITIONS, MULTIPLY DIMENSIONS "L" AND "H" BY THE APPROPRIATE CORRECTION FACTOR.

CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING	
THRUST BLOCK DETAIL FOR WATER LINES (4-INCH TO 12 INCH) (NOT TO SCALE)	
APPROVED BY: CITY ENGINEER	APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: JULY-01-2010	DWG NO: 02511-02

NO.	DATE	REVISION	APP.

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

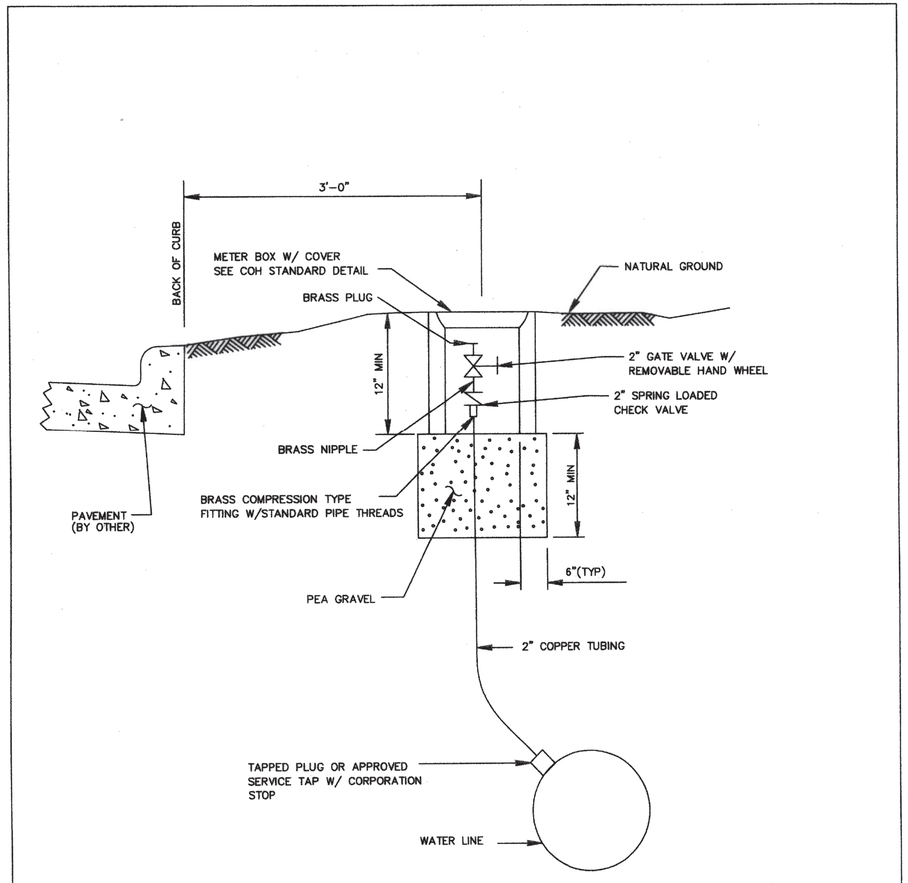
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

WATERLINE
STANDARD DETAILS

SHEET 4 OF 6

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ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 222 OF 369	

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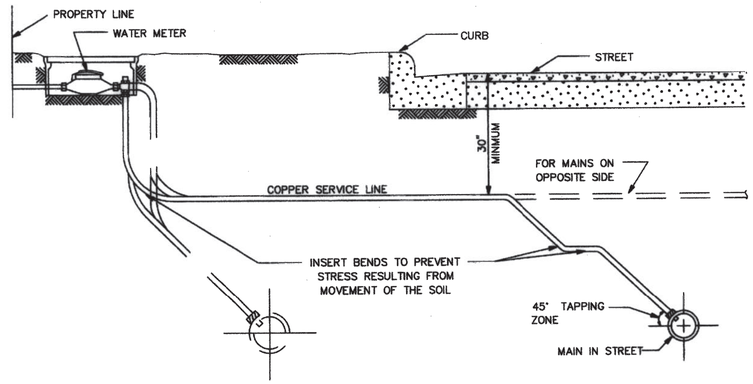
GENERAL NOTES:

1. PLACE GATE VALVE VERTICAL TO GROUND WITH END OF BRASS PLUG 3 INCHES FROM SURFACE
2. PLACE METER BOX CENTER AROUND GATE VALVE BOX WITH LONG SIDE PARALLEL TO VALVE.

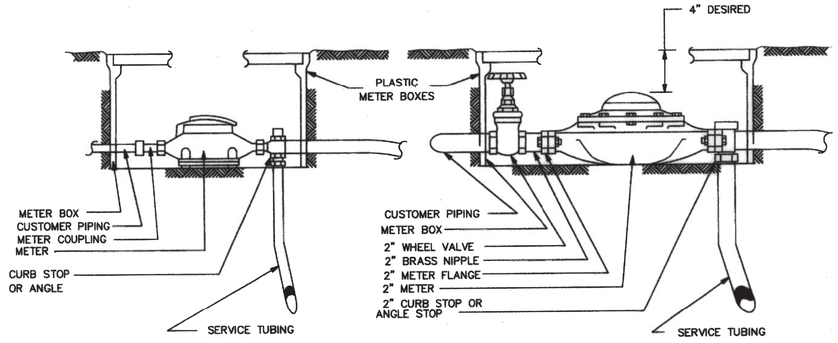
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PERMANENT BLOW-OFF-DETAIL (NOT TO SCALE)	
APPROVED BY: CITY ENGINEER	APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE:JULY-01-2010	DWG NO: 02524-01

NOTES:

1 1/2" METER SET IS SAME AS 2" EXCEPT WHEEL VALVE IS NOT REQUIRED.



TYPICAL SECTION SERVICE LINE



5/8", 3/4" AND 1" METER SET

2" METER SET

CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING	
TYPICAL METER SETTINGS (NOT TO SCALE)	
APPROVED BY: CITY ENGINEER	APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: JULY-01-2010	DWG NO: 02526-01

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P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

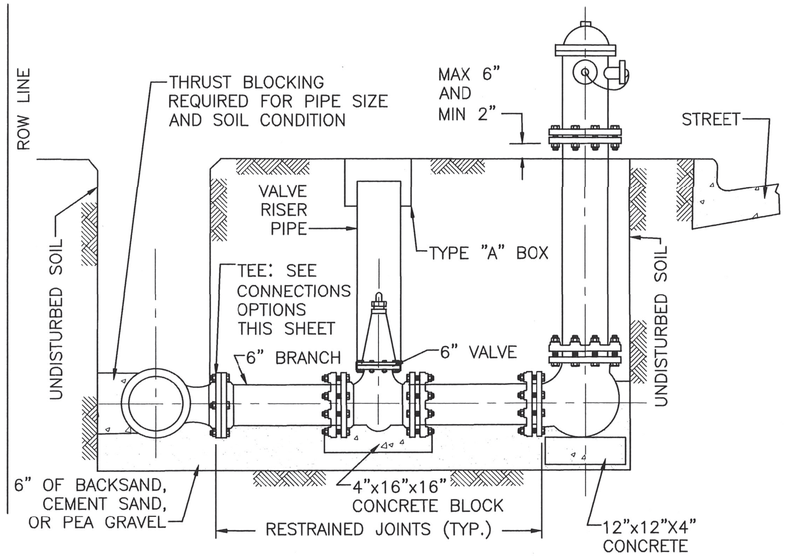
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

WATERLINE
STANDARD DETAILS

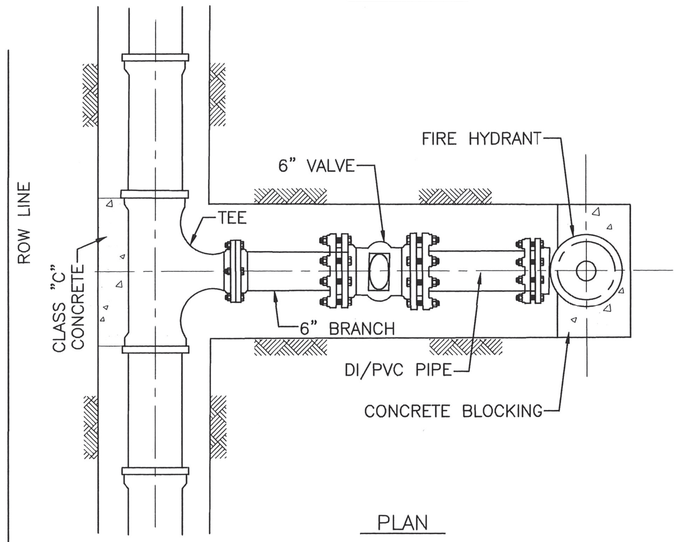
SHEET 5 OF 6

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CITY OF HOUSTON PM	
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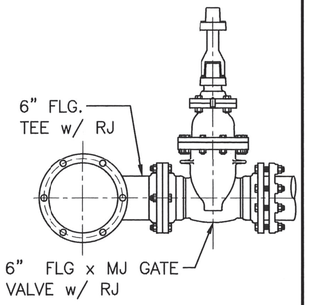


SECTION

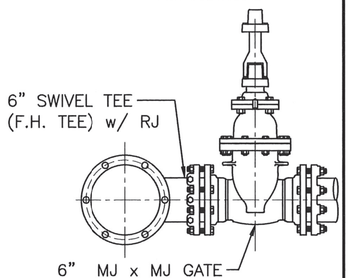


PLAN

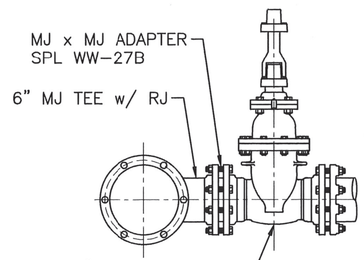
CONNECTION TO MAIN



OPTION 1



OPTION 2



OPTION 3

NOTES:

1. LOCATE FIRE HYDRANTS AT POINT OF CURVATURE (PC) OR POINT OF TANGENCY (PT) OF THE INTERSECTION CURB RADIUS, 3 FEET BEHIND CURB OR PROJECTED FUTURE CURB.
2. ON OPEN-DITCH ROADWAYS, SET THE FIRE HYDRANTS WITH IN 5 FEET OF RIGHT-OF-WAY LINES.
3. FIRE HYDRANT STEAMER NOZZLE SHALL FACE THE STREET.
4. LOCATE HYDRANT VALVE IMMEDIATELY ADJACENT TO WATER LINE.
5. ALL PIPING TO BE RESTRAINED JOINTS.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

STANDARD FIRE HYDRANT DETAIL

(NOT TO SCALE)

APPROVED BY:	APPROVED BY:
Sushail Kanwar CITY ENGINEER	Carol Haddock DIRECTOR OF HOUSTON PUBLIC WORKS
EFF DATE: JUL - 01 - 2021	DWG NO: 02520-01

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

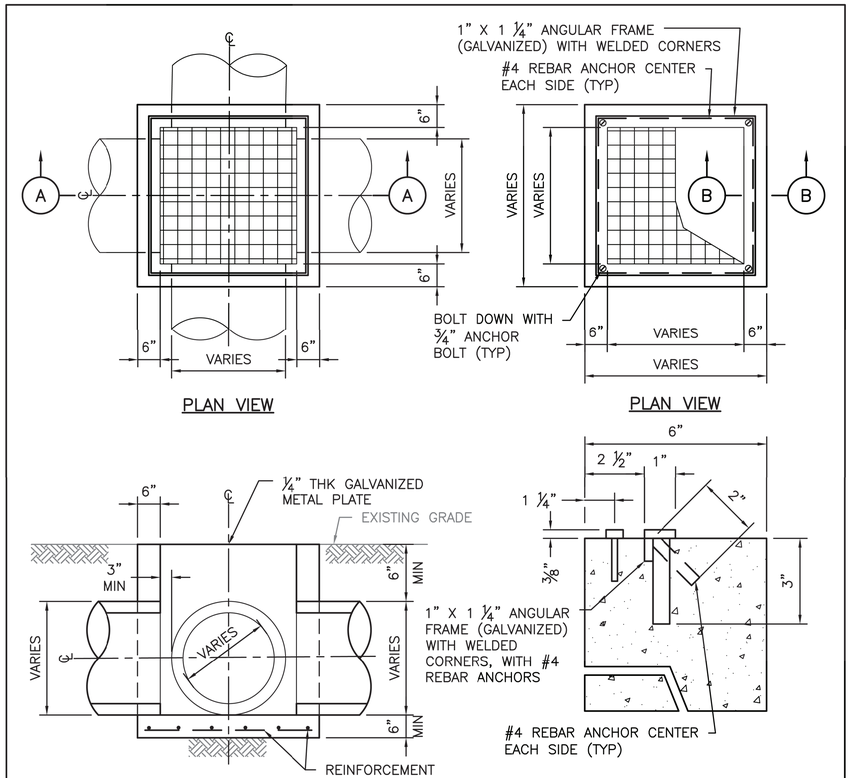
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WATERLINE STANDARD DETAILS

SHEET 6 OF 6

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SHEET NO. 224 OF 369	

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NOTES:

1. DETAIL TO BE USED WHERE STORM SEWER SIZE IS 24" DIA OR LESS.
2. FOR SEWER GREATER THAN 24" DIA USE TYPE C MANHOLE.

NOTES TO SPECIFIER:

1. WALL TO BE 6" CONCRETE.
2. NOT TO BE USED IN STREET. FOR AREA BETWEEN CURB AND PROPERTY LINE ONLY.

DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. THE DESIGN REQUIREMENTS ON THIS STANDARD DO NOT PURPORT TO ADDRESS ALL OF THE SAFETY CONCERNS ASSOCIATED WITH THEIR USE. THE ENGINEER OF RECORD (EOR) IS TO REVIEW THESE DESIGN REQUIREMENTS AND BY AUTHORIZING THEIR USE, ACCEPTS RESPONSIBILITY FOR THEIR APPLICABILITY, ADEQUACY AND SAFETY. NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER. THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

APPROVED BY:

Signed by: 1BEBB22072F84DC... — CITY ENGINEER

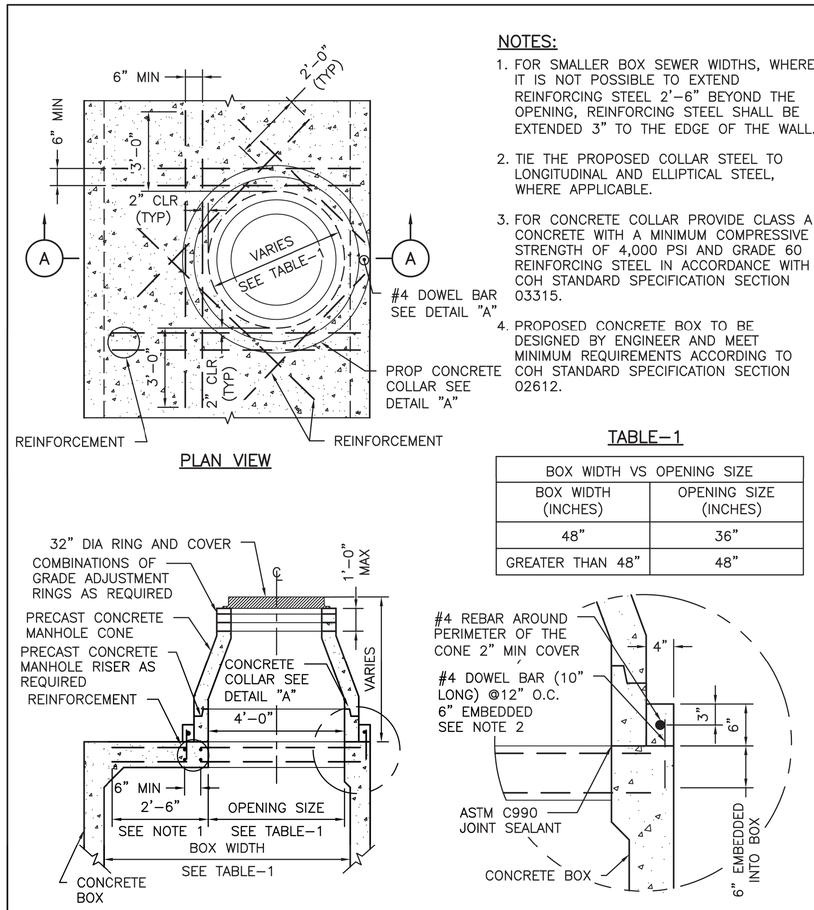
Signed by: BE463EF0DF454EB... — DIRECTOR OF HPW

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

STORM SEWER JUNCTION BOX WITH LID OR GRATE TOP FOR MAXIMUM OF 24" DIA STORM SEWER

(SCALE: NOT TO SCALE)

EFF DATE: MAR–02–2026 | DWG NO: 02081–06



NOTES:

1. FOR SMALLER BOX SEWER WIDTHS, WHERE IT IS NOT POSSIBLE TO EXTEND REINFORCING STEEL 2'–6" BEYOND THE OPENING, REINFORCING STEEL SHALL BE EXTENDED 3" TO THE EDGE OF THE WALL.
2. TIE THE PROPOSED COLLAR STEEL TO LONGITUDINAL AND ELLIPTICAL STEEL, WHERE APPLICABLE.
3. FOR CONCRETE COLLAR PROVIDE CLASS A CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AND GRADE 60 REINFORCING STEEL IN ACCORDANCE WITH COH STANDARD SPECIFICATION SECTION 03315.
4. PROPOSED CONCRETE BOX TO BE DESIGNED BY ENGINEER AND MEET MINIMUM REQUIREMENTS ACCORDING TO COH STANDARD SPECIFICATION SECTION 02612.

TABLE–1

BOX WIDTH VS OPENING SIZE	
BOX WIDTH (INCHES)	OPENING SIZE (INCHES)
48"	36"
GREATER THAN 48"	48"

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APPROVED BY:

Signed by: 1BEBB22072F84DC... — CITY ENGINEER

Signed by: BE463EF0DF454EB... — DIRECTOR OF HPW

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

STORM SEWER MANHOLE TYPE "C" FOR PROPOSED CONCRETE BOX SEWER

(SCALE: NOT TO SCALE)

EFF DATE: MAR–02–2026 | DWG NO: 02082–15

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ENGINEER: RAHUL B MENON, P.E
P.E.Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

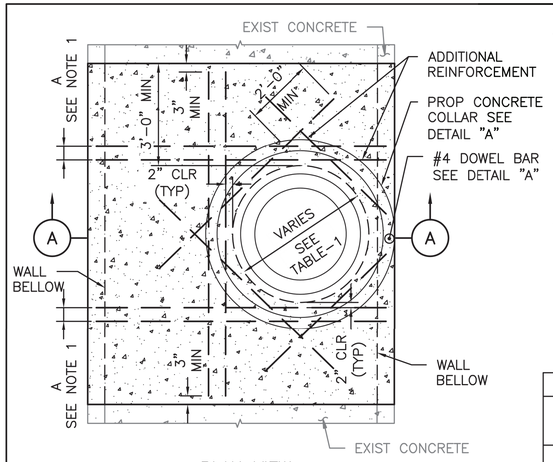
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STORM
STANDARD DETAILS

SHEET 1 OF 15

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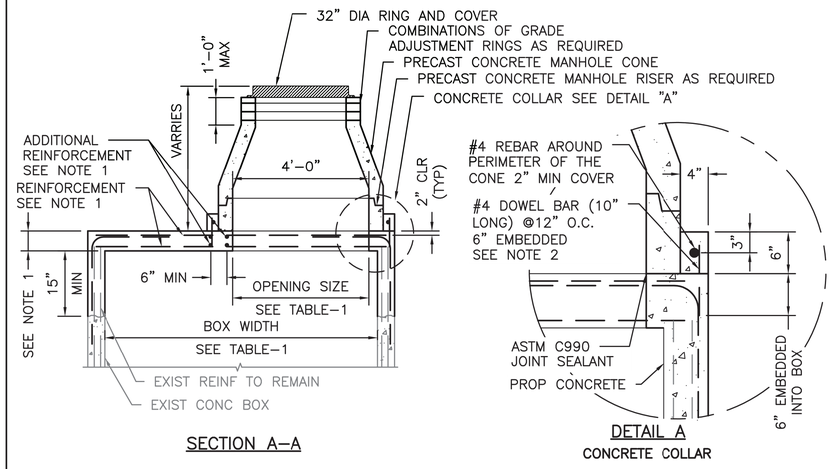
PLAN VIEW

NOTE:

1. TRANSITION SLAB TO BE DESIGNED BY ENGINEER AND MEET MIN REQUIREMENTS OF COH STANDARD SPECIFICATION SECTION 02081.
2. TIE THE PROPOSED COLLAR STEEL TO LONGITUDINAL AND ELLIPTICAL STEEL, WHERE APPLICABLE.
3. FOR CONCRETE COLLAR PROVIDE CLASS A CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AND GRADE 60 REINFORCING STEEL IN ACCORDANCE WITH COH STANDARD SPECIFICATION SECTION 03315.

TABLE-1

BOX WIDTH VS OPENING SIZE	
BOX WIDTH (INCHES)	OPENING SIZE (INCHES)
48"	36"
GREATER THAN 48"	48"



SECTION A-A

DETAIL A
CONCRETE COLLAR

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APPROVED BY:

Signed by: 1BEBB22072F84DC...
CITY ENGINEER

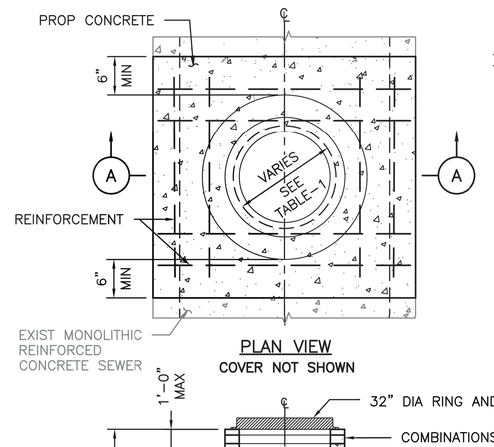
Signed by: BE463EF0DF454EB...
DIRECTOR OF HPW

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

PROPOSED MANHOLE ON EXISTING BOX STORM SEWER

(SCALE: NOT TO SCALE)

EFF DATE: MAR-02-2026 | DWG NO: 02082-16



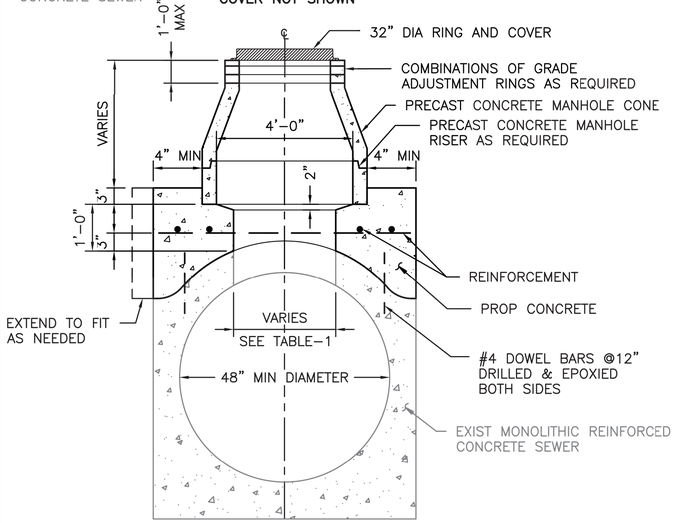
PLAN VIEW
COVER NOT SHOWN

NOTE:

1. TRANSITION SLAB TO BE DESIGNED BY ENGINEER AND MEET MIN REQUIREMENTS OF COH STANDARD SPECIFICATION 02081.

TABLE-1

SEWER SIZE VS OPENING	
SEWER SIZE (INCHES)	OPENING SIZE (INCHES)
48"	36"
54"	36"
60"	42"
66" OR GREATER	48"



ELEVATION A-A

DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. THE DESIGN REQUIREMENTS ON THIS STANDARD DO NOT PURPORT TO ADDRESS ALL OF THE SAFETY CONCERNS ASSOCIATED WITH THEIR USE. THE ENGINEER OF RECORD (EOR) IS TO REVIEW THESE DESIGN REQUIREMENTS AND BY AUTHORIZING THEIR USE, ACCEPTS RESPONSIBILITY FOR THEIR APPLICABILITY, ADEQUACY AND SAFETY. NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER. THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

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Signed by: 1BEBB22072F84DC...
CITY ENGINEER

Signed by: BE463EF0DF454EB...
DIRECTOR OF HPW

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

STORM SEWER MANHOLE FOR EXISTING MONOLITHIC REINFORCED CONCRETE 48" DIA AND GREATER

(SCALE: NOT TO SCALE)

EFF DATE: MAR-02-2026 | DWG NO: 02082-17

NO.	DATE	REVISION	APP.

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10448 Westoffice Drive
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TBPE Firm Reg. #4575

SURVEYED BY: Kuo&Associates
FB NO. P-6382

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ENGINEER: RAHUL R MENON, P.E
P.E.Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

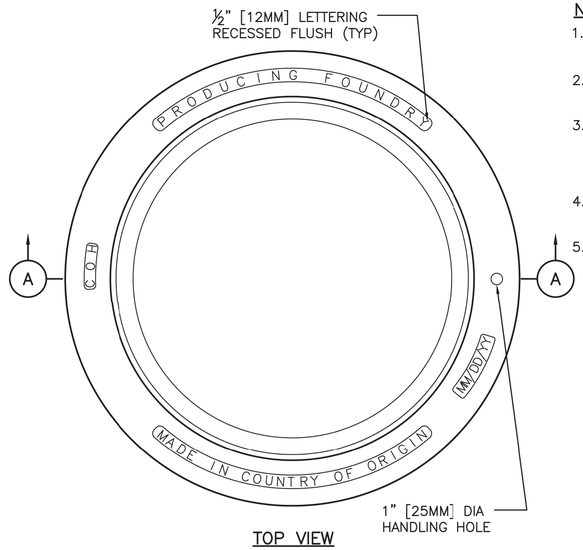
STORM
STANDARD DETAILS

SHEET 2 OF 15

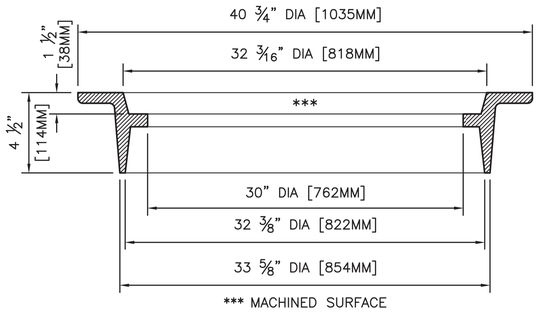
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TOP VIEW



*** MACHINED SURFACE

SECTION A–A
FRAME SECTION

NOTES:

1. APPROXIMATE WEIGHTS: FRAME–190 LBS (86KGS).
2. MATERIALS–GRAY IRON ASTM A48 CL35B.
3. CASTING MUST BE MANUFACTURED AND PROOF TESTED IN ACCORDANCE WITH AASHTO M306.
4. EJ V1816 ASY OR APPROVED EQUAL.
5. IDENTIFICATION MARKINGS MUST COMPLY WITH CITY SPECIFICATIONS. MARKINGS NOT SHOWN ON THIS DETAIL MUST BE PLACED ON THE CASTING:
   - A. PROVIDE ALL FRAME MARKINGS ON THE TOP SIDE OF THE FRAME.
   - B. PROVIDE GRATE AND COVER MARKINGS ON EITHER TOP OR BOTTOM OF CASTING.

DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. THE DESIGN REQUIREMENTS ON THIS STANDARD DO NOT PURPORT TO ADDRESS ALL OF THE SAFETY CONCERNS ASSOCIATED WITH THEIR USE. THE ENGINEER OF RECORD (EOR) IS TO REVIEW THESE DESIGN REQUIREMENTS AND BY AUTHORIZING THEIR USE, ACCEPTS RESPONSIBILITY FOR THEIR APPLICABILITY, ADEQUACY AND SAFETY. NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER. THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

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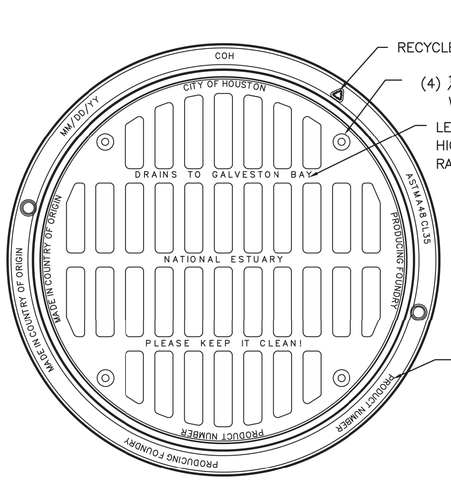
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

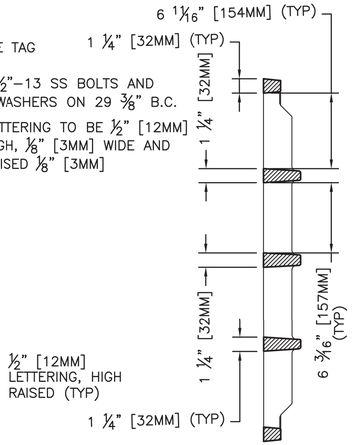
32" INVERTED MANHOLE FRAME

(SCALE: NOT TO SCALE)

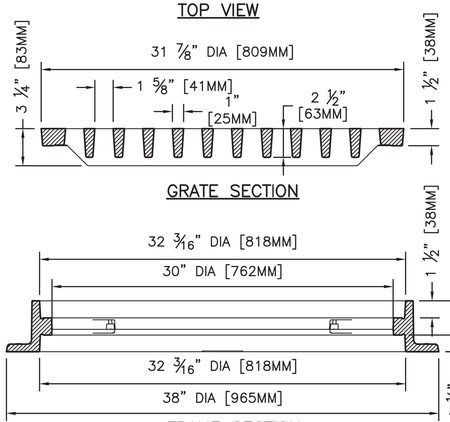
EFF DATE: MAR–02–2026	DWG NO: 02090–09



TOP VIEW



GRATE SECTION



NOTES:

1. APPROXIMATE WEIGHTS:
   GRATE – 241 LBS (109KGS)
   FRAME – 169 LBS (77KGS)
   UNIT – 410 LBS (186KGS)
2. MATERIALS – GRAY IRON ASTM A48 CL35B.
3. CASTINGS MUST BE MANUFACTURED AND PROOF TESTED IN ACCORDANCE WITH AASHTO M306.
4. EJ V3419 ASY OR APPROVED EQUAL.
5. OPEN AREA OF GRATE 337 SQ. IN.
6. IDENTIFICATION MARKINGS MUST COMPLY WITH CITY SPECIFICATIONS. MARKINGS NOT SHOWN ON THIS DETAIL MUST BE PLACED ON THE CASTING:
   - A. PROVIDE ALL FRAME MARKINGS ON THE TOP SIDE OF THE FRAME.
   - B. PROVIDE GRATE AND COVER MARKINGS ON EITHER TOP OR BOTTOM OF CASTING.
7. GRATE IS BICYCLE–COMPATIBLE WHEN THE LONG DIMENSION OF SLOT IS ORIENTED PERPENDICULAR TO THE DIRECTION OF TRAVEL.
8. GRATE IS NOT ADA–COMPATIBLE. DO NOT PLACE IN PEDESTRIAN WALKWAYS OR SHARED USE PATHS.
9. THIS FRAME IS DESIGNED FOR USE IN STANDARD (NON–INVERTED AS SHOWN) AND INVERTED ORIENTATIONS. REFER TO CONTRACT DOCUMENTS FOR SPECIFIED ORIENTATION.

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APPROVED BY:

CITY ENGINEER	DIRECTOR OF HPW
Signed by: 1BEBB22072F84DC...	Signed by: 8E463EF0DF454EB...

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

32" STORM SEWER MANHOLE FRAME AND GRATE

(SCALE: NOT TO SCALE)

EFF DATE: MAR–02–2026	DWG NO: 02090–03

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SURVEYED BY: Kuo&Associates
FB NO. P–6382

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ENGINEER: RAHUL R MENON, P.E
P.E.Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
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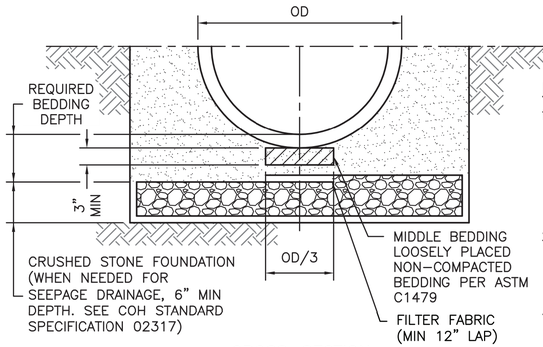
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STORM
STANDARD DETAILS

SHEET 3 OF 15

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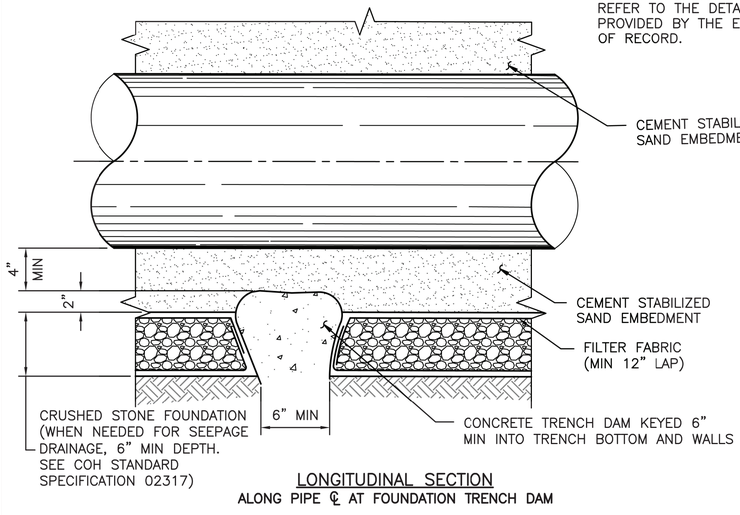
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CROSS-SECTION
OF CRUSHED STONE FOUNDATION

NOTES:

1. ACTUAL SHAPE OF CONCRETE TRENCH DAM CROSS SECTION MAY BE DETERMINED BY CONTRACTOR IN FIELD, MEETING MINIMUM THICKNESS AND KEY DEPTH REQUIREMENTS.
2. THIS DETAIL SHALL BE USED WITH CEMENT STABILIZED SAND EMBEDMENT, IN WET STABLE TRENCH CONDITIONS.
3. PLACE TRENCH DAMS IN CLASS I EMBEDMENTS AT THE MIDPOINT OF LINE SEGMENTS LONGER THAN 100 FEET BETWEEN MANHOLES.
4. FOR THERMOPLASTIC STORM SEWER PIPE INSTALLATION REFER TO THE DETAIL PROVIDED BY THE ENGINEER OF RECORD.



LONGITUDINAL SECTION
ALONG PIPE ℄ AT FOUNDATION TRENCH DAM

DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. THE DESIGN REQUIREMENTS ON THIS STANDARD DO NOT PURPORT TO ADDRESS ALL OF THE SAFETY CONCERNS ASSOCIATED WITH THEIR USE. THE ENGINEER OF RECORD (EOR) IS TO REVIEW THESE DESIGN REQUIREMENTS AND BY AUTHORIZING THEIR USE, ACCEPTS RESPONSIBILITY FOR THEIR APPLICABILITY, ADEQUACY AND SAFETY. NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER. THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

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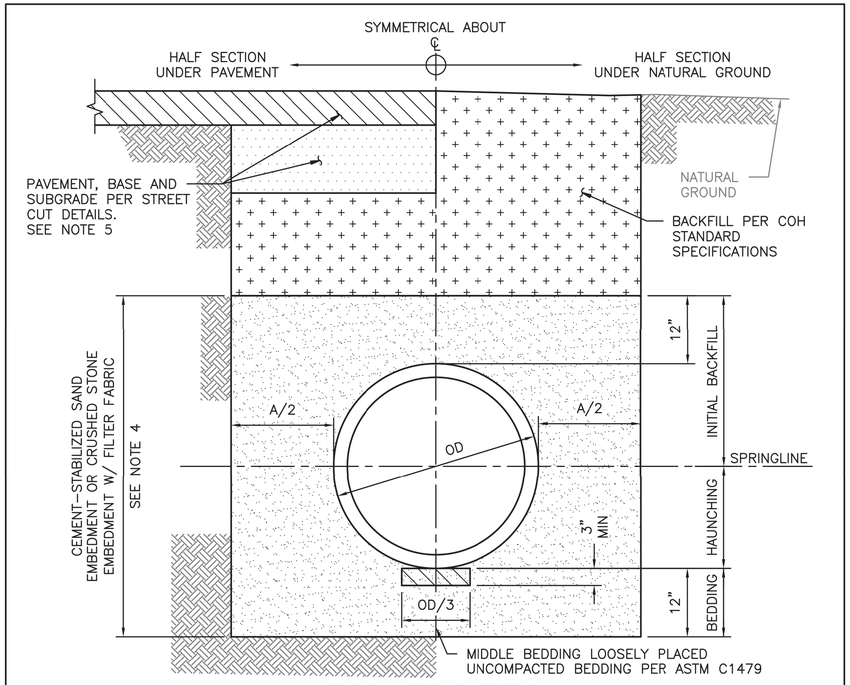
CITY ENGINEER	DIRECTOR OF HPW
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

SANITARY OR STORM SEWER
CRUSHED STONE FOUNDATION
FOR WET STABLE TRENCH

(SCALE: NOT TO SCALE)

EFF DATE: MAR-02-2026 | DWG NO: 02317-02



TYPICAL CROSS-SECTION

NOTES:

1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS PER COH STANDARD. SEE COH STANDARD SPECIFICATION FOR REQUIREMENTS IN OTHER CONDITIONS.
2. MIN TRENCH WIDTH SHALL BE PIPE OD PLUS AN ALLOWANCE "A" FOR THE NOMINAL PIPE SIZE:

NOMINAL PIPE SIZE	"A"
30" OR LESS	24"
36" TO 42"	36"
GREATER THAN 42"	48"

3. MAX TRENCH WIDTH SHALL BE NOT GREATER THAN MIN TRENCH WIDTH PLUS 24 INCHES, UNLESS OTHERWISE NOTED.
4. ALTERNATIVE EMBEDMENT BACKFILL MATERIALS FOR FORCE MAINS MAY BE ALLOWED. SEE COH STANDARD SPECIFICATIONS.
5. REFER TO THE COH STD DETAILS 02951-01 THROUGH 05 FOR STREET CUT REQUIREMENTS.
6. FOR THERMOPLASTIC STORM SEWER PIPE INSTALLATION REFER TO COH STD DETAIL 02317-10G.

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CITY ENGINEER	DIRECTOR OF HPW
Signed by: 1BEBB22072F84DC...	Signed by: 5E463EF0DF454EB...

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

SANITARY OR STORM SEWER
BEDDING AND BACKFILL FOR DRY
STABLE TRENCH

(SCALE: NOT TO SCALE)

EFF DATE: MAR-02-2026 | DWG NO: 02317-03

NO.	DATE	REVISION	APP.

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ENGINEER: RAHUL R MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P-6382

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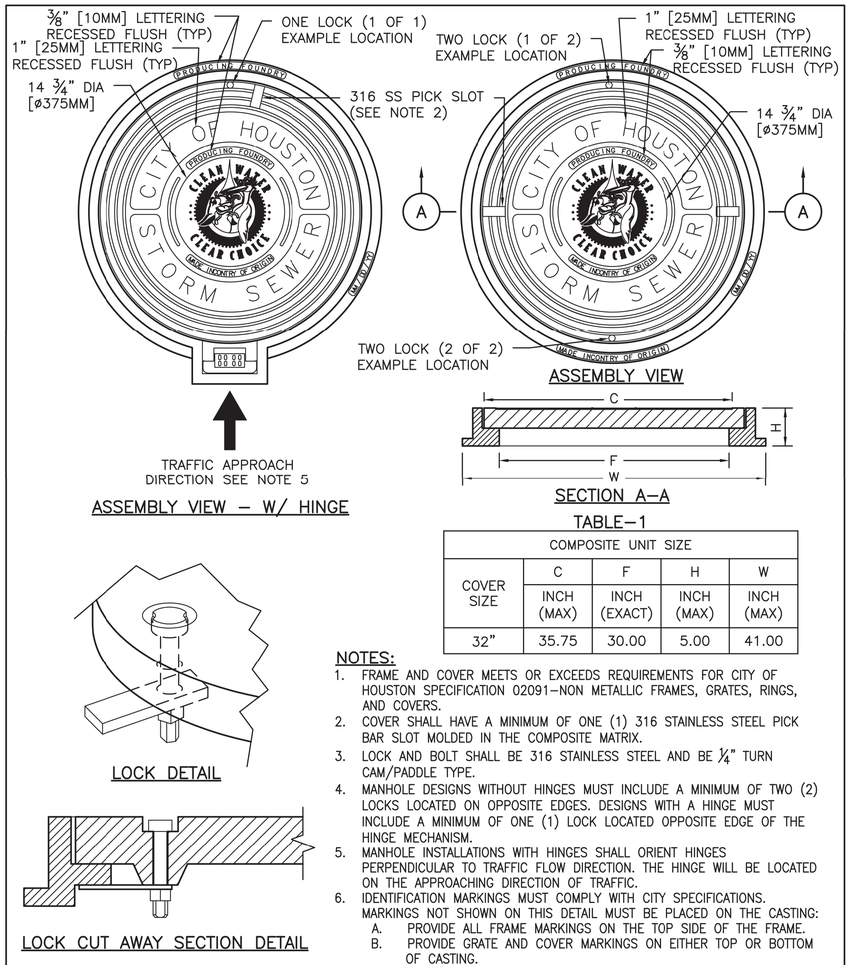
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STORM
STANDARD DETAILS

SHEET 4 OF 15

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ASSEMBLY VIEW – W/ HINGE

ASSEMBLY VIEW

SECTION A–A

TABLE–1

COMPOSITE UNIT SIZE				
COVER SIZE	C INCH (MAX)	F INCH (EXACT)	H INCH (MAX)	W INCH (MAX)
32"	35.75	30.00	5.00	41.00

LOCK DETAIL

LOCK CUT AWAY SECTION DETAIL

NOTES:

1. FRAME AND COVER MEETS OR EXCEEDS REQUIREMENTS FOR CITY OF HOUSTON SPECIFICATION 02091–NON METALLIC FRAMES, GRATES, RINGS, AND COVERS.
2. COVER SHALL HAVE A MINIMUM OF ONE (1) 316 STAINLESS STEEL PICK BAR SLOT MOLDED IN THE COMPOSITE MATRIX.
3. LOCK AND BOLT SHALL BE 316 STAINLESS STEEL AND BE ¼" TURN CAM/PADDLE TYPE.
4. MANHOLE DESIGNS WITHOUT HINGES MUST INCLUDE A MINIMUM OF TWO (2) LOCKS LOCATED ON OPPOSITE EDGES. DESIGNS WITH A HINGE MUST INCLUDE A MINIMUM OF ONE (1) LOCK LOCATED OPPOSITE EDGE OF THE HINGE MECHANISM.
5. MANHOLE INSTALLATIONS WITH HINGES SHALL ORIENT HINGES PERPENDICULAR TO TRAFFIC FLOW DIRECTION. THE HINGE WILL BE LOCATED ON THE APPROACHING DIRECTION OF TRAFFIC.
6. IDENTIFICATION MARKINGS MUST COMPLY WITH CITY SPECIFICATIONS. MARKINGS NOT SHOWN ON THIS DETAIL MUST BE PLACED ON THE CASTING:
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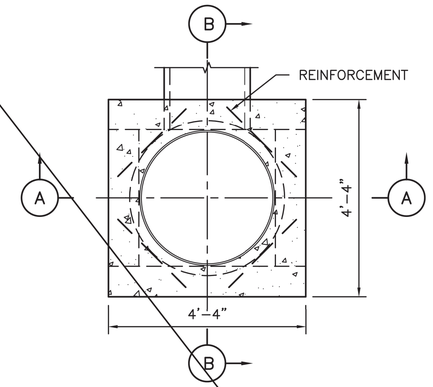
CITY ENGINEER	DIRECTOR OF HPW
Signed by: 1BEBB22073F84DC...	Signed by: 8E463EF0DF454EB...

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

STORM SEWER
NON–METALLIC MANHOLE
FRAME AND COVER

(SCALE: NOT TO SCALE)

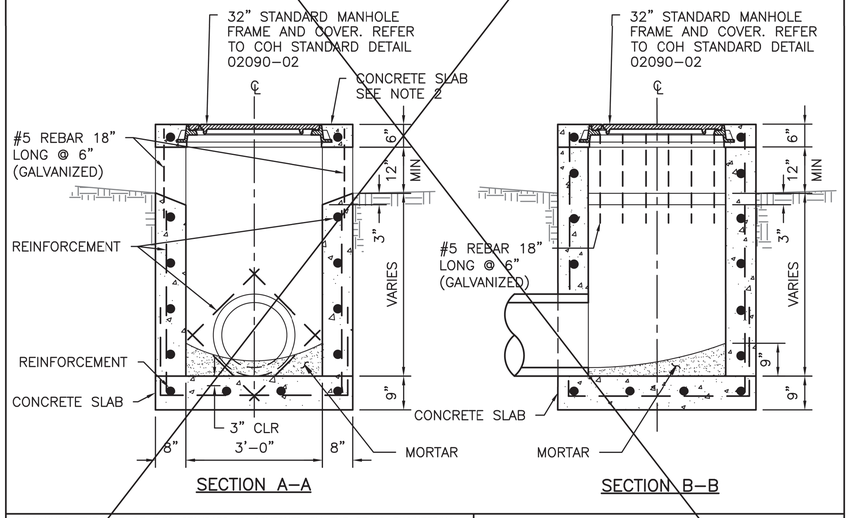
EFF DATE: MAR–02–2026	DWG NO: 02091–02



PLAN VIEW

NOTES:

1. TYPE "E" INLET TOP CAN BE CONSTRUCTED ON A STANDARD "C" MANHOLE.
2. PROVIDE CLASS A CONCRETE WITH A MINIMUM COMPRESSIVE STRENGTH OF 4,000 PSI AND GRADE 60 REINFORCING STEEL IN ACCORDANCE WITH COH STANDARD SPECIFICATION SECTION 03315.
3. ENGINEER OF OF RECORD TO DESIGN REINFORCEMENT AND ENSURE THE DESIGN MEETS THE PROJECT REQUIREMENTS.



SECTION A–A

SECTION B–B

DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. THE DESIGN REQUIREMENTS ON THIS STANDARD DO NOT PURPORT TO ADDRESS ALL OF THE SAFETY CONCERNS ASSOCIATED WITH THEIR USE. THE ENGINEER OF RECORD (EOR) IS TO REVIEW THESE DESIGN REQUIREMENTS AND BY AUTHORIZING THEIR USE, ACCEPTS RESPONSIBILITY FOR THEIR APPLICABILITY, ADEQUACY AND SAFETY. NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER. THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

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CITY ENGINEER	DIRECTOR OF HPW
Signed by: 1BEBB22073F84DC...	Signed by: 8E463EF0DF454EB...

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

STORM SEWER TYPE "E" INLET

(SCALE: NOT TO SCALE)

EFF DATE: MAR–02–2026	DWG NO: 02632–09

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ENGINEER: RAHUL B MENON, P.E
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DATE: AUGUST 2026

CITY OF HOUSTON
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ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

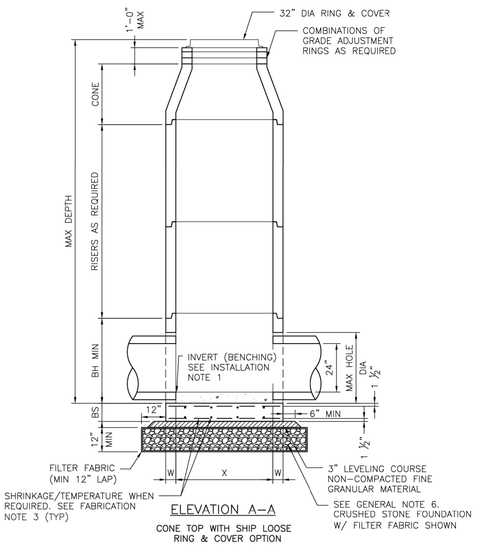
STORM
STANDARD DETAILS

SHEET 5 OF 15

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SHEET NO. 229 OF 369	

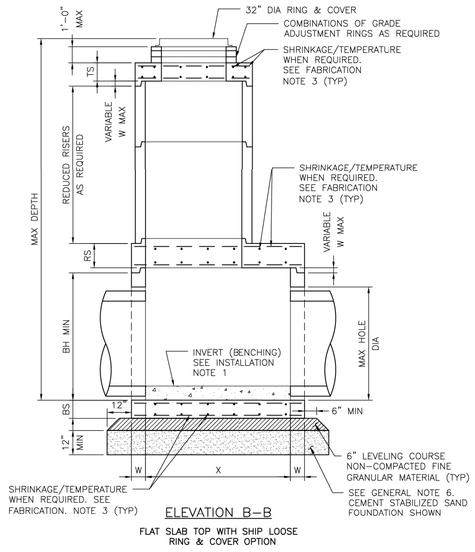
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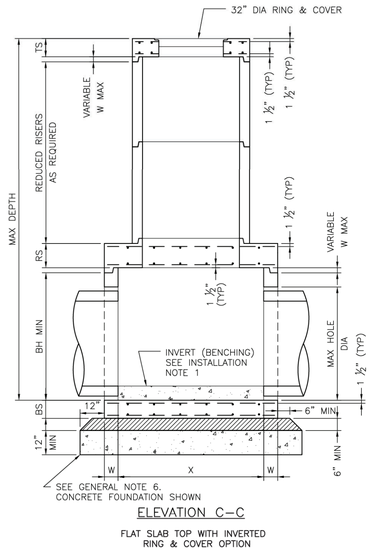
ELEVATION A–A

CONE TOP WITH SHIP LOOSE RING & COVER OPTION



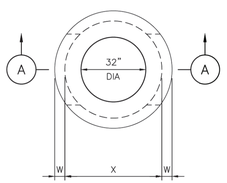
ELEVATION B–B

FLAT SLAB TOP WITH SHIP LOOSE RING & COVER OPTION



ELEVATION C–C

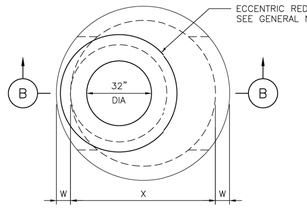
FLAT SLAB TOP WITH INVERTED RING & COVER OPTION



PLAN VIEW A

COVER NOT SHOWN

4–FT DIA MANHOLE

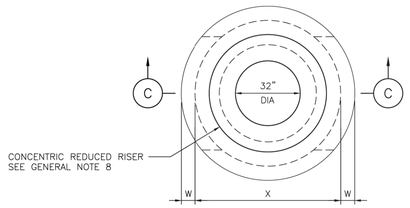


PLAN VIEW B

COVER NOT SHOWN

5–FT & 6–FT DIA MANHOLE

ECCENTRIC MANHOLE (PREFERRED CONFIGURATION)



PLAN VIEW C

COVER NOT SHOWN

5–FT & 6–FT DIA MANHOLE

ECCENTRIC MANHOLE (ALTERNATE CONFIGURATION)

TABLE–1

PRECAST ROUND MANHOLE (PRM) MINIMUM REQUIREMENTS FOR 24 IN. TO 42 IN. INTERNAL DIA STORM SEWER PIPES

	SIZE	BASE SLAB THICKNESS	BASE UNIT OR RISER THICKNESS	REDUCED RISER DIA	REDUCING SLAB THICKNESS	TOP SLAB THICKNESS	MAX DEPTH TO TOP OF BASE SLAB	MIN HEIGHT	MAX HOLE DIA
	X	BS	W	ID	RS	TS	MAX DEPTH	BH MIN	MAX HOLE DIA
	FT	IN.	IN.	IN.	IN.	IN.	FT.	IN.	IN.
PRM	4	9	5	–	–	9	25	42	35
	5	9	6	48	9	9	25	42	42
	6	9	7	48/60*	12	9	25	42	56

(*) 60–IN REDUCED RISER IS TO BE USED WHEN DEEMED NECESSARY TO SATISFY WALL PENETRATION SPACING REQUIREMENTS.

FABRICATION NOTES:

1. PROVIDE CLASS "H" CONCRETE IN ACCORDANCE WITH TEXAS DEPARTMENT OF TRANSPORTATION ITEM 421 AND HAVING A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI.
2. PROVIDE GRADE 60 REINFORCING STEEL OR EQUIVALENT AREA OF WWR. PROVIDE CIRCUMFERENTIAL REINFORCING STEEL IN VERTICAL WALLS OF BASE, RISER AND CONE IN ACCORDANCE WITH ASTM C478.
3. SLABS WITH A THICKNESS OF 8" OR GREATER REQUIRE SHRINKAGE AND TEMPERATURE REINFORCING STEEL. PROVIDE STEEL AREA = 0.11 IN^2/FT EACH WAY.
4. MANUFACTURE BASE AND RISERS TO NEAREST 3" INCREMENT.
5. DESIGN TONGUE AND GROOVE JOINTS FOR FULL CLOSURE ON BOTH SHOULDERS. MINIMUM SPIGOT DEPTH IS ¾".
6. PROVIDE LIFTING DEVICES IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
7. PROVIDE CAST IRON SOLID COVER, UNLESS NOTED OTHERWISE ELSEWHERE IN THE PLANS.
8. THREE DIFFERENT OPTIONS FOR CAPPING THE MANHOLE RISER NEAR THE FINISHED GRADE ARE SHOWN. CONES CAN BE USED WHEN COVER IS SUFFICIENT TO ALLOW FOR PROPER PLACEMENT. FLAT LIDS ARE TO BE USED WHERE COVER IS LIMITED.

INSTALLATION NOTES:

1. IF REQUIRED ELSEWHERE, INVERTS (BENCHING) TO BE PROVIDED BY CONTRACTOR. CONCRETE OR MORTAR USED FOR INVERT IS SUBSIDIARY TO THIS ITEM. REFER TO CITY OF HOUSTON SPECIFICATION 02082 FOR INVERT (BENCHING) REQUIREMENTS.
2. SEAL TONGUE AND GROOVE JOINTS WITH PREFORMED OR BULK MASTIC IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS. TONGUE AND GROOVE JOINTS MAY BE GROUTED NO MORE THAN 1" BETWEEN EACH SECTION, OR ½ THE JOINT DEPTH, WHICHEVER IS GREATER.
3. DO NOT GROUT RUBBER GASKET JOINTS WITHOUT MANUFACTURER'S RECOMMENDATION.
4. INITIAL INSTALLATION OF GRADE ADJUSTMENT RINGS IS LIMITED TO 1'–0" MAX AS SHOWN.
5. GRADE ADJUSTMENT RINGS MAY BE INCREASED TO 1'–6" MAX WHEN FUTURE CONSTRUCTION AFFECTS FINAL GRADE OF STRUCTURE. MAKE ADJUSTMENTS GREATER THAN 1'–6" WITH ADDITIONAL RISERS. ADJUSTMENTS MAY BE MADE UP TO THE MAX DEPTH OF 25'–0". STRUCTURE MUST BE EVALUATED IF MAX DEPTH WILL BE EXCEEDED.

GENERAL NOTES:

1. SEE TABLE–1 FOR MINIMUM DESIGN REQUIREMENTS. CONCENTRIC RISER WITH RESPECT TO BASE (ALTERNATIVE CONFIGURATION) FALLS OUTSIDE THE SCOPE OF REQUIREMENTS PROVIDED. ENGINEER OF RECORD ACCEPTS RESPONSIBILITY FOR SAFETY AND ADEQUACY OF MANHOLE IF THE ALTERNATIVE CONFIGURATION IS USED.
2. DESIGNED ACCORDING TO ASTM C478.
3. PAYMENT FOR PRECAST MANHOLE PER SECTION 02082–PRECAST CONCRETE MANHOLES.
4. PIPE OD + PLACEMENT TOLERANCE MUST BE EQUAL OR LESS THAN MAX HOLE DIA. FOR RIGID PIPE, PLACEMENT TOLERANCE IS 4" MAX, 2" MIN. FOR FLEXIBLE PIPE, CONSULT BOOT/SEAL MANUFACTURER'S SPECIFICATION FOR PLACEMENT TOLERANCE.
5. STORM WATER SEWER PIPE INTERNAL DIA SHALL NOT BE LESS THAN 24".
6. FOUNDATION/SUBGRADE TO BE DESIGNED BY ENGINEER AND MEET MINIMUM REQUIREMENTS ACCORDING TO SECTION 02082.
7. ALL STORM WATER MANHOLES ARE TO BE PRECAST CONCRETE, UNLESS OTHERWISE NOTED ELSEWHERE IN THE PLANS.
8. ECCENTRIC REDUCED RISER WITH RESPECT TO BASE IS THE PREFERRED MANHOLE CONFIGURATION. CONCENTRIC REDUCED RISER WITH RESPECT TO BASE MANHOLE CONFIGURATION IS AN ALTERNATIVE DESIGN THAT WILL BE ACCEPTED BASED ON THE NEEDS OF THE CITY OF HOUSTON.
9. CONES MAY BE CONCENTRIC OR ECCENTRIC. REDUCTION CONES ARE ACCEPTABLE. REFER TO MANUFACTURER FOR CONE DIMENSIONS.
10. MANHOLE SIZE SHALL CONSIDER ENGINEERING ECONOMY. THIS DETAIL IS NOT APPLICABLE TO ROUND MANHOLES LARGER THAN 6–FOOT DIA.

APPROVED BY:	APPROVED BY:
CITY ENGINEER	DIRECTOR OF HOUSTON PUBLIC WORKS
EFF DATE: MAR–02–2026	DWG NO: 02082–12

CITY OF HOUSTON

HOUSTON PUBLIC WORKS STANDARD

STORM SEWER TYPE "C" PRECAST ROUND MANHOLE

	FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE	
NOT TO SCALE	

NO.	DATE	REVISION	APP.

ISANI
civil · design · engineers
10448 Westoffice Drive
Houston, Texas 77042
P 713 747 2399
F 713 748 3748
TBPE Firm Reg. #4575

SURVEYED BY: Kuo&Associates
FB NO. P–6382

INTERIM REVIEW ONLY
DOCUMENT INCOMPLETE;
NOT INTENDED FOR PERMIT, BIDDING OR CONSTRUCTION
ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON

HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

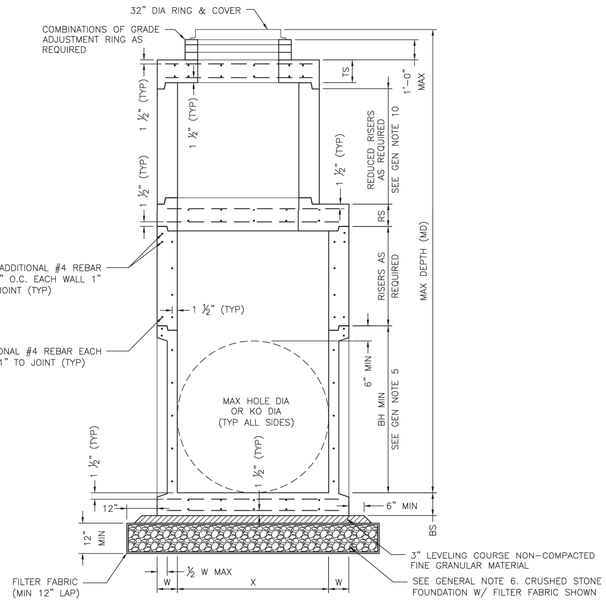
STORM STANDARD DETAILS

SHEET 6 OF 15

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 230 OF 369	

DISCLAIMER:
THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. THE DESIGN REQUIREMENTS ON THIS STANDARD DO NOT PURPORT TO ADDRESS ALL OF THE SAFETY CONCERNS ASSOCIATED WITH THEIR USE. IT IS THE RESPONSIBILITY OF THE DESIGN ENGINEER TO USE SOUND ENGINEERING JUDGMENT AND PRACTICE TO DETERMINE THE ACCEPTABILITY OF SAFETY PRECAUTIONS AND APPROPRIATE DESIGN REQUIREMENTS FOR THE CONDITIONS ENCOUNTERED ON EACH PROJECT. THE USE OF THIS STANDARD IS MADE BY THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER. THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.
WARRANTY OF ANY KIND IS MADE BY THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER. THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

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ELEVATION A–A
FLAT SLAB TOP WITH SHIP
LOOSE RING & COVER OPTION

FABRICATION NOTES:

1. PROVIDE CLASS "H" CONCRETE IN ACCORDANCE WITH TEXAS DEPARTMENT OF TRANSPORTATION ITEM 421 AND HAVING A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI.
2. PROVIDE GRADE 60 REINFORCING STEEL OR EQUIVALENT AREA OF WWR. PROVIDE CIRCUMFERENTIAL REINFORCING STEEL IN VERTICAL WALLS OF RISER AND CONE IN ACCORDANCE WITH ASTM C478.
3. PROVIDE TYPICAL MINIMUM CONCRETE CLEAR COVER OF 1 ½" TO REINFORCING STEEL AT INTERIOR OR EXTERIOR WALLS.
4. SLABS WITH A THICKNESS OF 8" OR GREATER REQUIRE SHRINKAGE AND TEMPERATURE REINFORCING STEEL. PROVIDE STEEL AREA = 0.11 IN^2/FT EACH WAY.
5. MANUFACTURE BASE AND RISERS TO NEAREST 3" INCREMENT.
6. DESIGN TONGUE AND GROOVE JOINTS FOR FULL CLOSURE ON BOTH SHOULDERS. MINIMUM SPIGOT DEPTH IS ¾".
7. PROVIDE LIFTING DEVICES IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
8. PROVIDE CAST IRON SOLID COVER, UNLESS NOTED OTHERWISE ELSEWHERE IN THE PLANS.
9. MAXIMUM SPACING OF REINFORCEMENT IS 8".
10. AT MANUFACTURERS OPTION, PROVIDE CAST OR CORED HOLES OR THIN WALL PANELS (KO) TO THE MAXIMUM DIA SHOWN FOR EACH. WHEN NO PENETRATION IS REQUIRED, IT IS ACCEPTABLE TO PROVIDE A WALL WITH NO SECTIONAL REDUCTION.
11. THREE DIFFERENT OPTIONS FOR CAPPING THE MANHOLE RISER NEAR THE FINISHED GRADE ARE ALLOWED. CONES CAN BE USED WHEN COVER IS SUFFICIENT TO ALLOW FOR PROPER PLACEMENT. FLAT LIDS ARE TO BE USED WHERE COVER IS LIMITED. REFER TO 02082–12 FOR OPTIONS.
12. BASES AND RISERS MAY HAVE CAST, CUT OR THIN WALL PANEL (KO) THAT ARE ROUND AND DO NOT EXTEND INTO THE FLOOR, INTO WALLS, OR WITHIN 6" OF THE JOINT ABOVE OR BELOW.

INSTALLATION NOTES:

1. IF REQUIRED ELSEWHERE, INVERTS (BENCHING) TO BE PROVIDED BY CONTRACTOR. CONCRETE OR MORTAR USED FOR INVERT IS SUBSIDIARY TO MANHOLE/INLET. REFER TO CITY OF HOUSTON SPECIFICATION SECTION 02082 FOR INVERT (BENCHING) REQUIREMENTS FOR MANHOLES AND SECTION 02633 FOR INVERT (BENCHING) REQUIREMENTS FOR INLETS.
2. SEAL TONGUE AND GROOVE JOINTS WITH PREFORMED OR BULK MASTIC IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS. TONGUE AND GROOVE JOINTS MAY BE GROUTED NO MORE THAN 1" BETWEEN EACH SECTION, OR ½ THE JOIN" DEPTH, WHICHEVER IS GREATER.
3. DO NOT GROUT RUBBER GASKET JOINTS WITHOUT MANUFACTURER'S RECOMMENDATION.
4. FOR RIGID PIPE, CUT HOLE IN THIN WALL PANEL (KO) 4" MAX, 2" MIN LARGER THAN PIPE OD.
5. FOR FLEXIBLE PIPE, CONSULT BOOT/SEAL MANUFACTURER'S SPECIFICATION FOR PLACEMENT TOLERANCE AND HOLE SIZE. CENTER PIPE IN HOLE AND INSTALL BOOT/SEAL PER MANUFACTURER'S SPECIFICATION.
6. INITIAL INSTALLATION OF GRADE ADJUSTMENT RINGS IS LIMITED TO 1'–0" MAX AS SHOWN.
7. GRADE ADJUSTMENT RINGS MAY BE INCREASED TO 1'–6" MAX WHEN FUTURE CONSTRUCTION AFFECTS FINAL GRADE OF STRUCTURE. MAKE ADJUSTMENTS GREATER THAN 1'–6" WITH ADDITIONAL RISERS. ADJUSTMENTS MAY BE MADE UP TO THE MAX DEPTH OF 25'–0". STRUCTURE MUST BE EVALUATED IF MAX DEPTH WILL BE EXCEEDED.

GENERAL NOTES:

1. SEE TABLE–1 FOR MINIMUM DESIGN REQUIREMENTS. CONCENTRIC RISER WITH RESPECT TO BASE (ALTERNATIVE CONFIGURATION) FALLS OUTSIDE THE SCOPE OF REQUIREMENTS PROVIDED. ENGINEER OF RECORD ACCEPTS RESPONSIBILITY FOR SAFETY AND ADEQUACY OF INLET/MANHOLE IF THE ALTERNATIVE CONFIGURATION IS USED.
2. DESIGNED ACCORDING TO ASTM C478 AND/OR ASTM C913.
3. PAYMENT FOR PRECAST MANHOLE PER SECTION 02082 PRECAST CONCRETE MANHOLES AND FOR PRECAST INLETS PER SECTION 02633 PRECAST CONCRETE INLETS, HEADWALLS, AND WINGWALLS.
4. PRECAST BASE CONSISTS OF BASE SLAB, BASE UNIT, RISERS (AS REQUIRED), REDUCING SLAB (AS REQUIRED), AND REDUCED RISERS (AS REQUIRED).
5. MIN HEIGHT SHOWN FOR STOCK BASE UNITS. USE STOCK BASE UNITS WHENEVER PRACTICAL. SMALLER HEIGHT BASE UNITS CAN BE USED IN SPECIAL INSTALLATION CIRCUMSTANCES, WHEN NOTED ELSEWHERE IN THE PLANS. ABSOLUTE MINIMUM HEIGHT OF BASE UNITS IS 2'–6".
6. FOUNDATION/SUBGRADE TO BE DESIGNED BY ENGINEER AND MEET MINIMUM REQUIREMENTS ACCORDING TO SECTION 02082.
7. ALL STORM WATER INLETS/MANHOLES ARE TO BE PRECAST CONCRETE, UNLESS OTHERWISE NOTED ELSEWHERE IN THE PLANS.
8. ECCENTRIC REDUCED RISER WITH RESPECT TO BASE IS THE PREFERRED INLET/MANHOLE CONFIGURATION. CONCENTRIC REDUCED RISER WITH RESPECT TO BASE INLET/MANHOLE CONFIGURATION IS AN ALTERNATIVE DESIGN THAT WILL BE ACCEPTED BASED ON THE NEEDS OF THE CITY OF HOUSTON.
9. MANHOLE SIZE SHALL CONSIDER ENGINEERING ECONOMY. THIS DETAIL IS NOT APPLICABLE TO BOX INLETS/MANHOLES LARGER THAN 8–FOOT BY 8–FOOT.
10. REFER TO STORM SEWER TYPE 'C' PRECAST ROUND MANHOLE DETAIL (02082–12) FOR REDUCED RISER DESIGN REQUIREMENTS.

TABLE–1

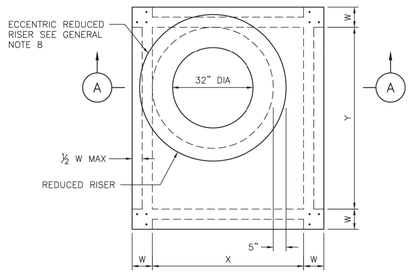
PRECAST BOX INLET (PBI) OR PRECAST BOX MANHOLE (PBM) MINIMUM REQUIREMENTS FOR 24 IN. TO 78 IN. INTERNAL DIA STORM SEWER PIPES.

	SIZE	BASE SLAB THICKNESS	BASE UNIT OR RISE WALL THICKNESS		REDUCED RISER DIA	REDUCED RISER SIZE	REDUCING SLAB THICKNESS	TOP SLAB THICKNESS	MIN HEIGHT (SEE GEN NOTE 5)	MAX HOLE DIA (SEE FAB NOTE 12)	MAX KO DIA (SEE FAB NOTE 12)
			MD ≤15 FT	15 FT < MD ≤ 25 FT (2)							
	X & Y	BS	W	W	ID	RWS x RWL	RS	TS	BH MIN	MAX HOLE DIA	KO DIA
	FT.	IN.	IN.	IN.	IN.	FT.	IN.	IN.	FT.	IN.	IN.
PBI/PBM	3X3 (1)	6	6	6	N/A	N/A	N/A	9	3.50	36	36
	4X4 (1)	6	6	6	N/A	N/A	N/A	9	4.50	48	48
	3X5 (1)	6	6	6	N/A	3X3	N/A	9	3.50	36/60	36/60
	4X5 (1)	6	6	6	48	3X3 / 4X4 / 3X5	9	9	4.50	48/60	48/60
	5X5 (1)	6	6	6	48	3X3 / 4X4 / 3X5	9	9	5.50	60	60
	5X6	9	6	8	48	3X3 / 4X4 / 3X5	9	9	5.50	60/72	60/72
	6X6	9	6	8	48	3X3 / 4X4 / 3X5	9	9	6.50	72	72
	8X8	9	8	10	48	3X3 / 4X4 / 3X5	12	9	8.50	96	72

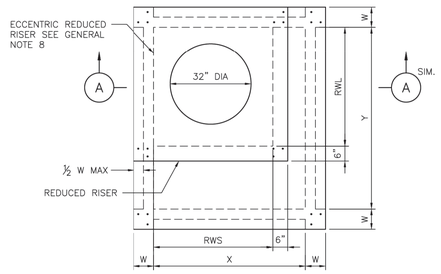
TABLE–1 NOTES:

(1) ROUND MANHOLES ARE PREFERRED FOR THESE SIZES.

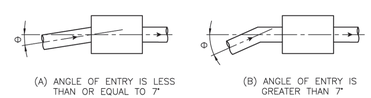
(2) MAX DEPTH (MD) DENOTES THE MAX INSTALLATION DEPTH MEASURED TO THE TOP OF BASE SLAB.



PLAN VIEW A
(ROUND REDUCED OPTION)
COVER NOT SHOWN



PLAN VIEW B
(SQUARE REDUCED OPTION)
COVER NOT SHOWN



(A) ANGLE OF ENTRY IS LESS THAN OR EQUAL TO 7°

(B) ANGLE OF ENTRY IS GREATER THAN 7°

CONNECT PIPES WITHIN 7° OF NORMAL TO PRECAST BASE WALL. IF NECESSARY, USE PIPE ELBOW OR CURVED APPROACH ALIGNMENT TO STAY WITHIN THIS LIMIT.

PIPE CONNECTION DETAIL

APPROVED BY:	APPROVED BY:
Signed by: [signature]	Signed by: [signature]
CITY ENGINEER	DIRECTOR OF HOUSTON PUBLIC WORKS
EFF DATE: MAR–02–2026	DWG NO: 02082–13

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

STORM SEWER PRECAST BOX INLET/MANHOLE

FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE
NOT TO SCALE

NO.	DATE	REVISION	APP.

ISANI
civil \ design \ engineers
10448 Westoffice Drive
Houston, Texas 77042
P 713 747 2399
F 713 748 3748
TBPE Firm Reg. #4575

SURVEYED BY: Kuo&Associates
FB NO. P–6382

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ENGINEER: RAHUL B MENON, P.E
P.E.Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

STORM
STANDARD DETAILS

SHEET 7 OF 15

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 231 OF 369	

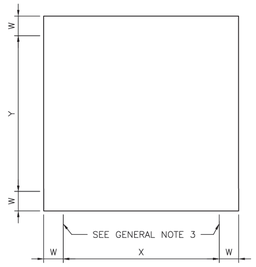
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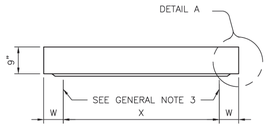
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WITH THE USE OF THIS STANDARD. THE CITY OF HOUSTON MAKES NO REPRESENTATIONS OR WARRANTIES OF ANY KIND WHATSOEVER WITH RESPECT TO THIS STANDARD. IN PARTICULAR, THE CITY OF HOUSTON DOES NOT REPRESENT OR WARRANT THAT THE USE OF THIS STANDARD IS SUITABLE FOR ANY SPECIFIC DESIGN, CONSTRUCTION, OR USE. THE CITY OF HOUSTON DISCLAIMS ANY WARRANTY OF ANY KIND WHATSOEVER, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. ANY RELIANCE ON THIS STANDARD IS MADE BY THE USER AT THE USER'S SOLE RISK. THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER. THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.



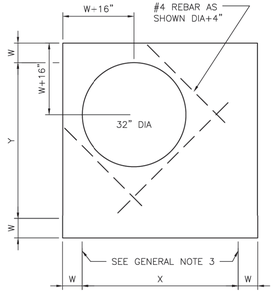
PLAN VIEW



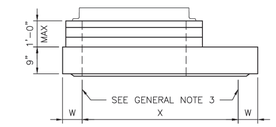
ELEVATION VIEW

STYLE "SL"

NO OPENINGS



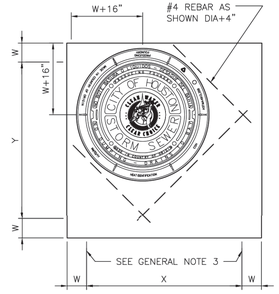
PLAN VIEW



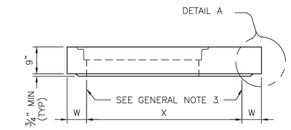
ELEVATION VIEW

STYLE "RH"

SHIP LOOSE RING & COVER



PLAN VIEW

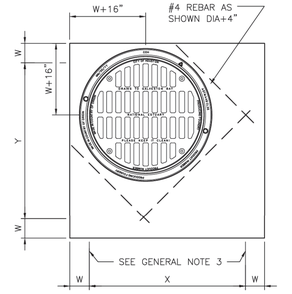


ELEVATION VIEW

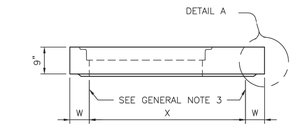
STYLE "RC"

32" DIA CAST-IN RING & COVER

(ONLY INVERTED FRAME ORIENTATION IS ALLOWED)



PLAN VIEW

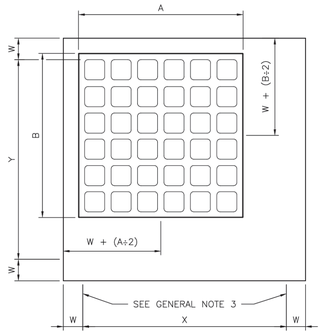


ELEVATION VIEW

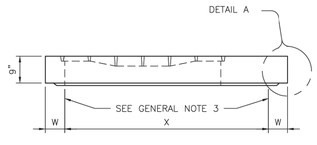
STYLE "RG"

32" DIA CAST-IN RING & GRATE

(ONLY INVERTED FRAME ORIENTATION IS ALLOWED)



PLAN VIEW

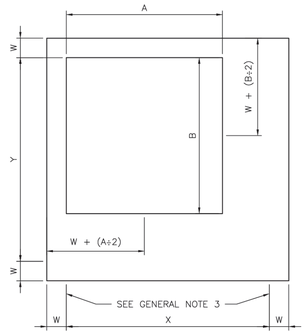


ELEVATION VIEW

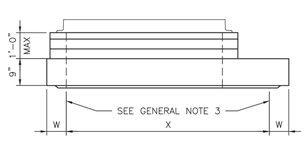
STYLE "FG"

CAST-IN FRAME & GRATE

(VERIFY WITH CONCRETE LID MANUFACTURER THAT THE EMBEDDED FRAME IS APPROVED FOR USE WITH CONCRETE LID)



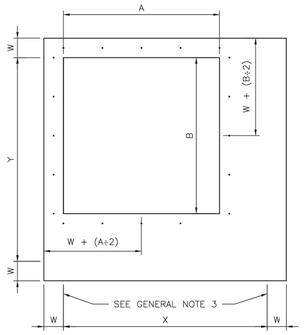
PLAN VIEW



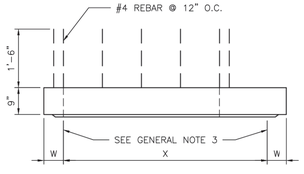
ELEVATION VIEW

STYLE "SH"

SHIP LOOSE FRAME & GRATE



PLAN VIEW



ELEVATION VIEW

STYLE "S1"

EXPOSED REBAR

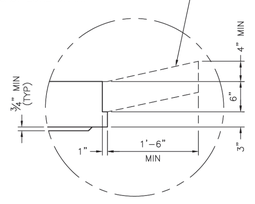
TABLE–2

STYLE	SIZE	WALL THICKNESS OF PRECAST BASE/RISER BELOW LID (SEE GENERAL NOTE 4)	NOMINAL GRATE/COVER SIZE
	X×Y (FOOT)	W (INCH)	A×B (INCH)
SL*	3x3	6	N/A
RH, RC, RG, SH, S1, FG	3x3	6	30x30** OR 32" DIA
SL*	4x4	6	N/A
RH, RC, RG, SH, S1, FG	4x4	6	30x30** 32" DIA
SH, S1, FG	4x4	6	30x30**
SL*	3x5	6	N/A
RH, RC, RG, SH, S1, FG	3x5	6	30x30** OR 32" DIA
SH, S1, FG	3x5	6	38 ½ x 16 ⅝**
SL*	4x5	6	N/A
RH, RC, RG, SH, S1, FG	4x5	6	30x30** OR 32" DIA
SH, S1, FG	4x5	6	38 ½ x 16 ⅝**
SL*	5x5	6	N/A
RH, RC, RG, SH, S1, FG	5x5	6	30x30** OR 32" DIA
SH, S1, FG	5x5	6	38 ½ x 16 ⅝**
SL*	5x6	6 OR 8	N/A
RH, RC, RG, SH, S1, FG	5x6	6 OR 8	30x30** OR 32" DIA
SH, S1, FG	5x6	6 OR 8	38 ½ x 16 ⅝**
SL*	6x6	6 OR 8	N/A
RH, RC, RG, SH, S1, FG	6x6	6 OR 8	30x30** OR 32" DIA
SH, S1, FG	6x6	6 OR 8	38 ½ x 16 ⅝**
SL*	8x8	8 OR 10	N/A
RH, RC, RG, SH, S1, FG	8x8	8 OR 10	30x30** OR 32" DIA
SH, S1, FG	8x8	8 OR 10	38 ½ x 16 ⅝**

* THE SL STYLE IS INTENDED TO BE PLACED AT FINISHED GRADE, NOT BURIED. THIS STYLE MAY BE USED IN CASES WHERE A GRATE INLET IS NOT PRESENTLY NEEDED, BUT MAY BE NEEDED IN FUTURE.

** SHALL NOT BE USED ON TRAFFIC LANES.

CONSTRUCT CAST-IN-PLACE REINFORCED CONCRETE APRON, WHEN SHOWN IN PLANS. USE CLASS "A" CONCRETE. APRON IS SUBSIDIARY TO PRECAST SLAB LID APRON IS 1'-6" MIN WIDTH AROUND PRECAST ZONE DRAIN.



DETAIL A

WHEN AN APRON IS TO BE CAST AROUND PRECAST SLAB LID, USE DETAIL ABOVE TO CREATE AN APRON LEDGE ON ALL 4 SIDES.

FABRICATION NOTES:

1. ONLY ONE PENETRATION IS ALLOWED PER SLAB LID.
2. PROVIDE CLASS "H" CONCRETE IN ACCORDANCE WITH TEXAS DEPARTMENT OF TRANSPORTATION ITEM 421 AND HAVING A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI.
3. PROVIDE GRADE 60 REINFORCING STEEL OR EQUIVALENT AREA OF WWR.
4. PROVIDE CLEAR COVER OF ¾" TO REINFORCING STEEL FROM LOWER OUTSIDE SHOULDER OF SLAB FOR STRUCTURAL REINFORCEMENT, AND 2" FROM TOP OF SLAB FOR SHRINKAGE AND TEMPERATURE REINFORCEMENT. PLACE SHORT SPAN REINFORCEMENT CLOSEST TO SURFACE.
5. SLABS WITH A THICKNESS OF 8" OR GREATER REQUIRE SHRINKAGE AND TEMPERATURE REINFORCING STEEL. PROVIDE STEEL AREA = 0.11 IN^2/FT EACH WAY.
6. NO SUBSTITUTION IS ALLOWED FOR #4 BARS AROUND OPENINGS.
7. DESIGN TONGUE AND GROOVE JOINTS FOR FULL CLOSURE ON BOTH SHOULDERS. MINIMUM SPIGOT DEPTH IS ¾".
8. PROVIDE LIFTING DEVICES IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
9. PROVIDE CAST IRON SOLID COVER, UNLESS NOTED OTHERWISE ON THE PLANS.

INSTALLATION NOTES:

1. PRECAST SLAB LIDS ARE INTENDED FOR DIRECT TRAFFIC AND MAY BE PLACED IN ROADWAY.
2. SEAL TONGUE AND GROOVE JOINTS WITH PREFORMED OR BULK MASTIC IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS. TONGUE AND GROOVE JOINTS MAY BE GROUTED NO MORE THAN 1" BETWEEN EACH SECTION, OR ½ THE JOINT DEPTH, WHICHEVER IS GREATER.
3. DO NOT GROUT RUBBER GASKET JOINTS WITHOUT MANUFACTURER'S RECOMMENDATION.
4. INITIAL INSTALLATION OF GRADE ADJUSTMENT RINGS IS LIMITED TO 1'–0" MAXIMUM AS SHOWN.
5. GRADE ADJUSTMENT RINGS MAY BE INCREASED TO 1'–6" MAX WHEN FUTURE CONSTRUCTION AFFECTS FINAL GRADE OF STRUCTURE. MAKE ADJUSTMENTS GREATER THAN 1'–6" WITH ADDITIONAL RISERS. ADJUSTMENTS MAY BE MADE UP TO THE MAX DEPTH OF 25'–0". STRUCTURE MUST BE EVALUATED IF MAX DEPTH WILL BE EXCEEDED.
6. ORIENT LONG DIMENSION OF GRATE SLOTS PERPENDICULAR TO TRAFFIC, UNLESS NOTED OTHERWISE ON PLANS.

GENERAL NOTES:

1. DESIGNED ACCORDING TO ASTM C913.
2. COVER DIMENSIONS ARE CLEAR DIMENSIONS, UNLESS NOTED OTHERWISE.
3. MATCHES INSIDE FACE OF WALL OF PRECAST BASE OR RISER BELOW INLET.
4. SEE COH STD DET 02082–13 FOR CORRESPONDING WALL THICKNESS (W) OF BASE UNIT OR RISER."

APPROVED BY:	APPROVED BY:
Signed by: 10EE0B2291F840C...	Signed by: 03E4E3E7DDF4541B...
CITY ENGINEER	DIRECTOR OF HOUSTON PUBLIC WORKS
EFF DATE: MAR–02–2026	DWG NO: 02082–14

CITY OF HOUSTON

HOUSTON PUBLIC WORKS STANDARD

PRECAST CONCRETE TOP SLAB LID

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SURVEYED BY: Kuo&Associates
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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON

HOUSTON PUBLIC WORKS

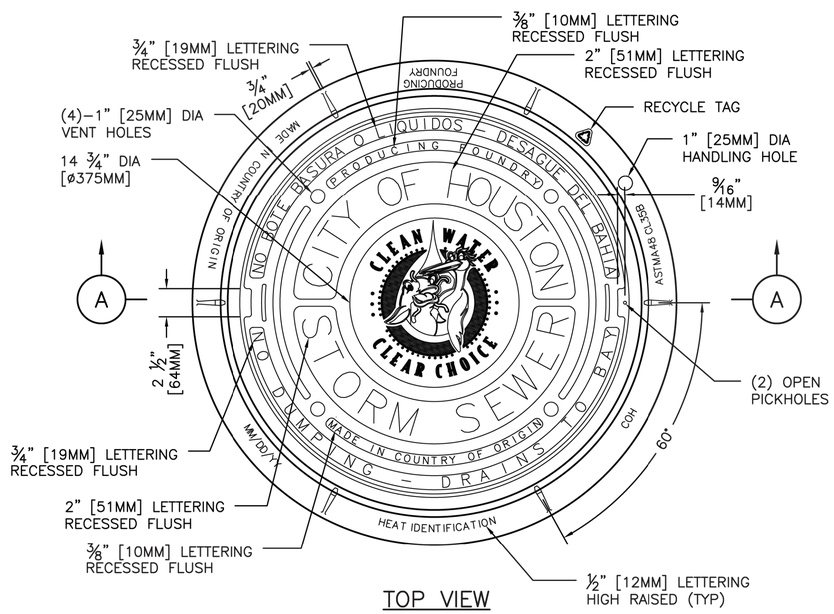
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

STORM
STANDARD DETAILS

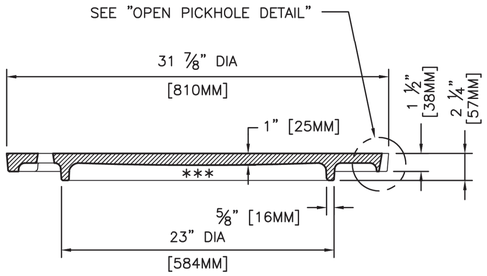
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ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 232 OF 369	

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TOP VIEW



*** MACHINED SURFACE

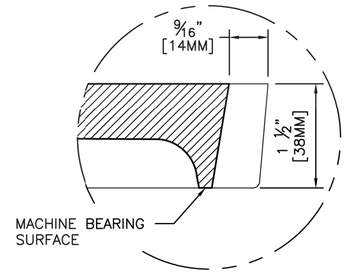
COVER SECTION

NOTES:

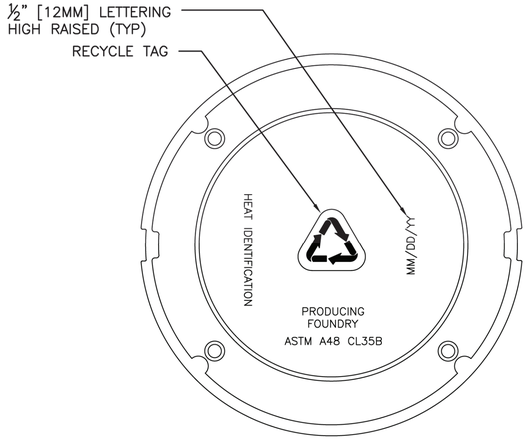
1. APPROXIMATE WEIGHTS:

   FRAME – 125 LBS (57KGS)
   COVER – 205 LBS (93KGS)
   UNIT – 330 LBS (150KGS)

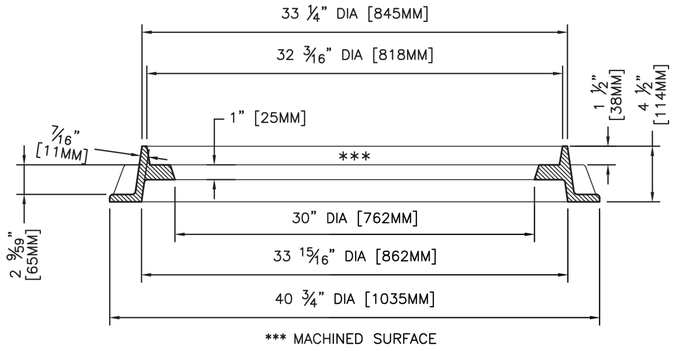
2. MATERIALS – GRAY IRON ASTM A48 CL35B.
3. CASTING MUST BE MANUFACTURED AND PROOF TESTED IN ACCORDANCE WITH AASHTO M306.
4. EJ V1430 ASY OR APPROVED EQUAL
5. IDENTIFICATION MARKINGS MUST COMPLY WITH CITY SPECIFICATIONS. MARKINGS NOT SHOWN ON THIS DETAIL MUST BE PLACED ON THE CASTING:
   A. PROVIDE ALL FRAME MARKINGS ON THE TOP SIDE OF THE FRAME.
   B. PROVIDE GRATE AND COVER MARKINGS ON EITHER TOP OR BOTTOM OF CASTING.



OPEN PICKHOLE DETAIL



BOTTOM VIEW OF COVER



*** MACHINED SURFACE

FRAME SECTION

SECTION A–A

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

STORM SEWER MANHOLE FRAME AND COVER

(SCALE: NOT TO SCALE)

APPROVED BY:

CITY ENGINEER	DIRECTOR OF HPW
Signed by: 1BEBB21072FB4DC...	Signed by: BE463EF0DF454EB...
EFF DATE: MAR–02–2026	DWG NO: 02090–02

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TBPE Firm Reg. #4575

SURVEYED BY: Kuo&Associates
FB NO. P–6382

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

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HOUSTON PUBLIC WORKS

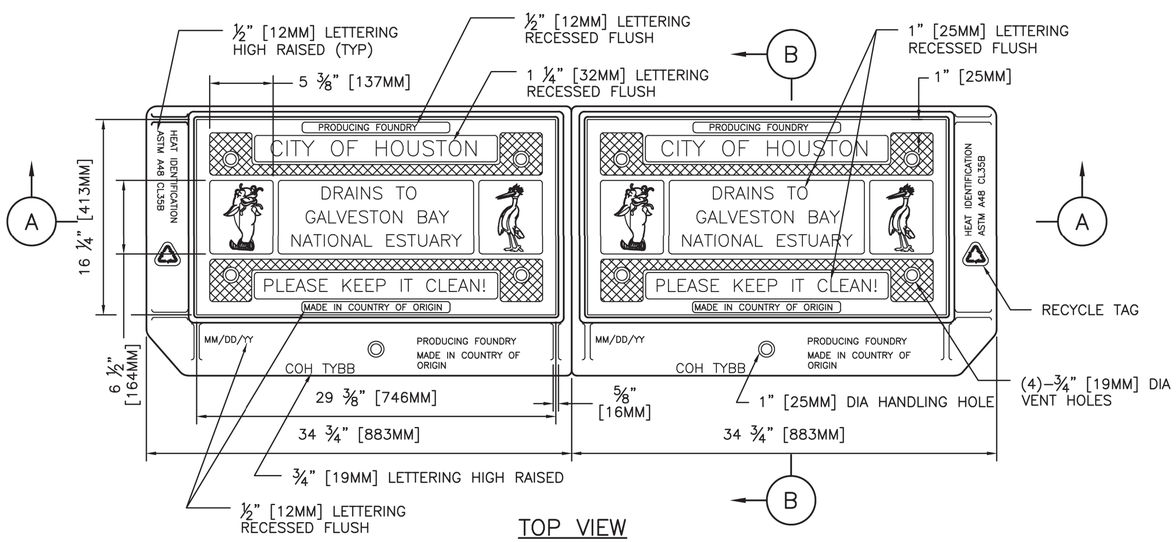
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STORM
STANDARD DETAILS

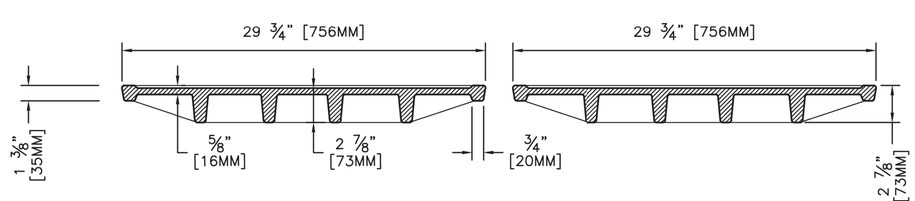
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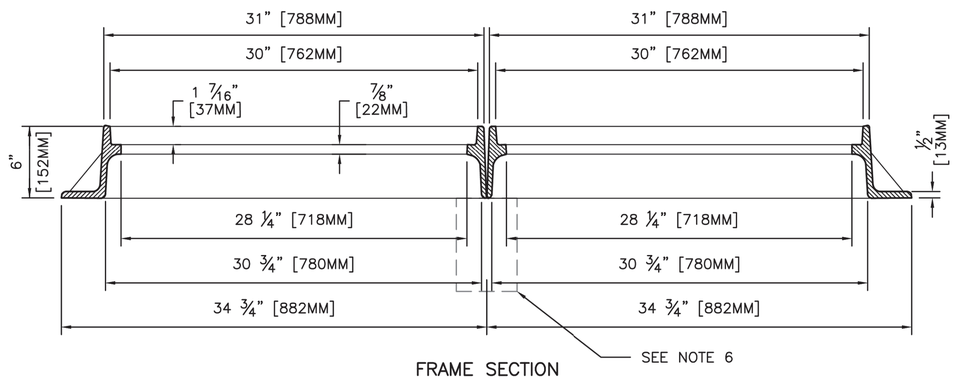
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TOP VIEW

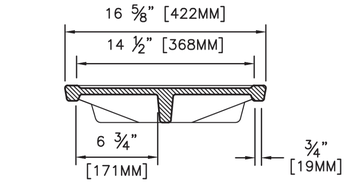


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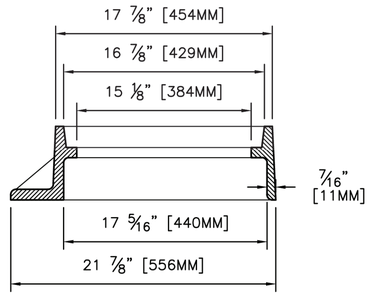


FRAME SECTION

SECTION A–A



COVER SECTION



FRAME SECTION

SECTION B–B

NOTES:

1. APPROXIMATE WEIGHTS:

   EACH FRAME – 125 LBS (57KGS)
   EACH COVER – 120 LBS (55KGS)
   EACH UNIT – 245 LBS (111KGS)

2. MATERIALS – GRAY IRON ASTM A48 CL35B.
3. CASTING MUST BE MANUFACTURED AND PROOF TESTED IN ACCORDANCE WITH AASHTO M306.
4. EJ V4243 ASY OR APPROVED EQUAL.
5. IDENTIFICATION MARKINGS MUST COMPLY WITH CITY SPECIFICATIONS. MARKINGS NOT SHOWN ON THIS DETAIL MUST BE PLACED ON THE CASTING:
   A. PROVIDE ALL FRAME MARKINGS ON THE TOP SIDE OF THE FRAME.
   B. PROVIDE GRATE AND COVER MARKINGS ON EITHER TOP OR BOTTOM OF CASTING.
6. FOR INLET MAINTENANCE REFER TO COH STD 02632–04. FOR NEW INLET CONSTRUCTION REFER TO COH STD 02633–02.

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

STORM SEWER TYPE "B–B" INLET DOUBLE ASSEMBLY

(SCALE: NOT TO SCALE)

APPROVED BY:

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CITY ENGINEER	DIRECTOR OF HPW
EFF DATE: MAR–02–2026	DWG NO: 02090–04

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FB NO. P–6382

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ENGINEER: RAHUL R MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

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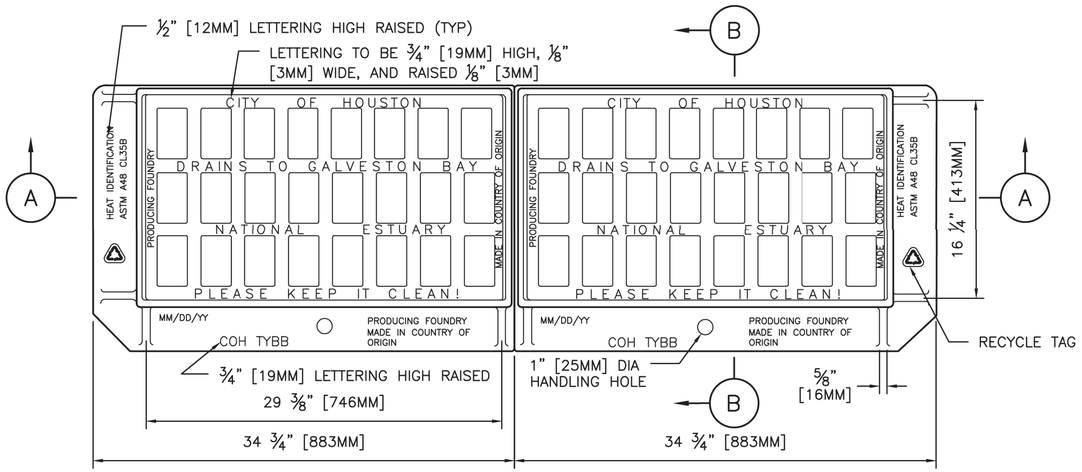
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

STORM
STANDARD DETAILS

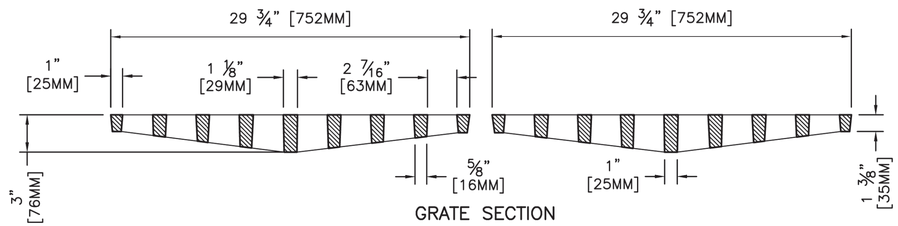
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SHEET NO. 234 OF 369	

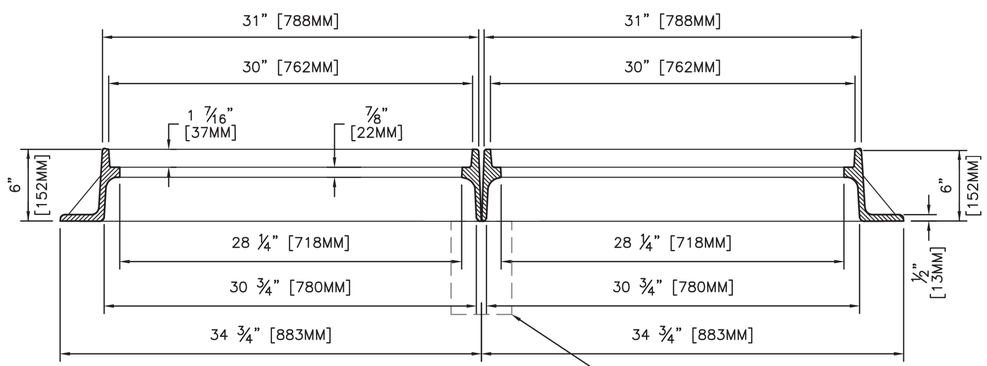
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TOP VIEW

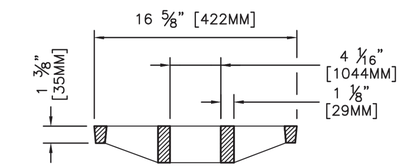


GRATE SECTION

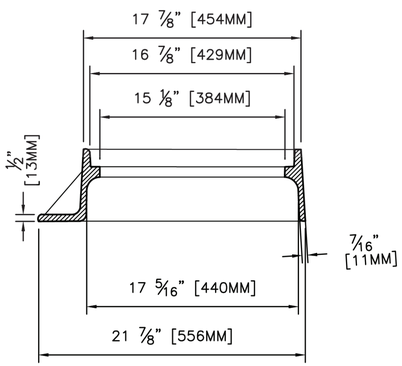


FRAME SECTION

SECTION A–A



GRATE SECTION



FRAME SECTION

SECTION B–B

NOTES:

1. APPROXIMATE WEIGHTS:

   EACH GRATE – 115 LBS (52KGS)
   EACH FRAME – 120 LBS (55KGS)
   EACH UNIT – 235 LBS (107KGS)

2. MATERIAL– GRAY IRON ASTM A48 CL35B.

3. CASTING MUST BE MANUFACTURED AND PROOF TESTED IN ACCORDANCE WITH AASHTO M306.

4. EJ V4243 ASY OR APPROVED EQUAL
   TYPE B–B 480 SQ. IN. [3096 SQ. CM.]
   TYPE B 240 SQ. IN. [1548 SQ. CM.]

5. IDENTIFICATION MARKINGS MUST COMPLY WITH CITY SPECIFICATIONS. MARKINGS NOT SHOWN ON THIS DETAIL MUST BE PLACED ON THE CASTING:

   A. PROVIDE ALL FRAME MARKINGS ON THE TOP SIDE OF THE FRAME.
   B. PROVIDE GRATE AND COVER MARKINGS ON EITHER TOP OR BOTTOM OF CASTING.

6. FOR INLET MAINTENANCE REFER TO COH STD 02632–04. FOR NEW INLET CONSTRUCTION REFER TO COH STD 02633–02.

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STORM SEWER FRAME AND GRATE FOR TYPE "B–B" INLET DOUBLE ASSEMBLY
(SCALE: NOT TO SCALE)

APPROVED BY:

CITY ENGINEER	DIRECTOR OF HPW
Signed by: 1BEBB22072F84DC...	Signed by: BE463EF0DF454EB...
EFF DATE: MAR–02–2026	DWG NO: 02090–05

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

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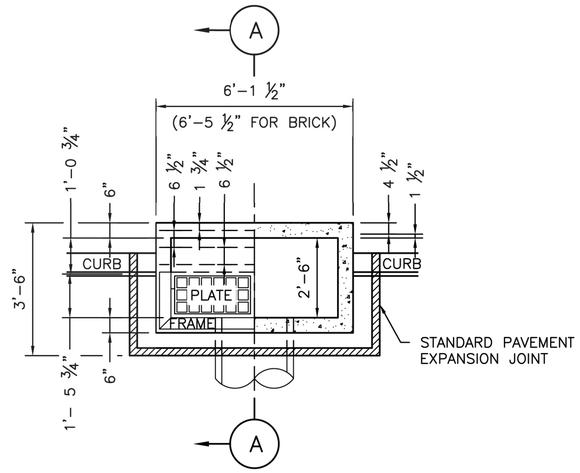
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

STORM
STANDARD DETAILS

SHEET 11 OF 15

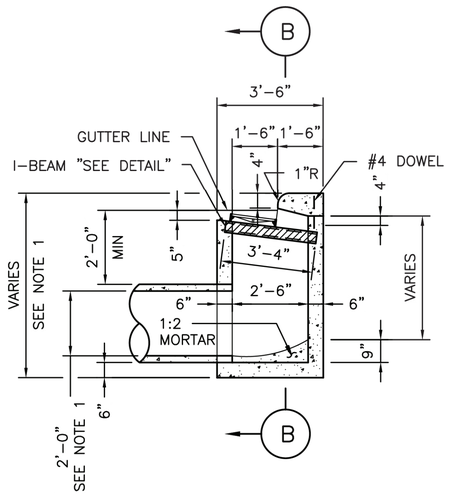
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ROBERT C. MILES, P.E., CCM, ENV SP	
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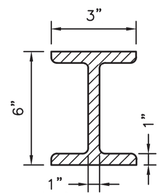


HALF PLAN HALF SECTION PLAN

PLAN VIEW



SECTION A–A



I–BEAM DETAIL

ACCEPTABLE ALTERNATE STEEL BEAM SIZES:

S6X17.25

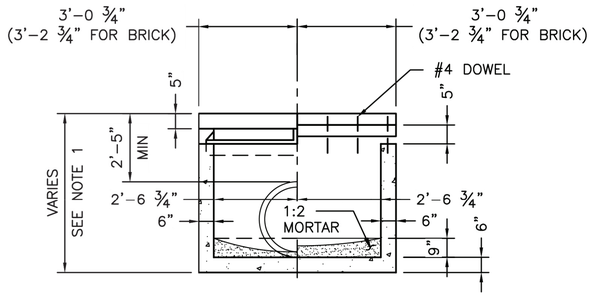
W6X16 (GALVANIZED)

NOTES:

1. DIMENSION VARIES BASED ON PIPE DIAMETER AND WALL THICKNESS.
2. CENTER REINFORCING IN SLAB AND WALLS. CENTER STEEL BEAM ON INLET AND CAST INTO WALLS AS SHOWN.
3. WHEN TOP OF CURB TO FLOWLINE IS GREATER THAN 8 FEET USE TYPE "C" INLET.
4. WHEN AN EXISTING "B–B" INLET WILL BE REPLACED BY A NEW INLET USE COH STD 02633–02.
5. EXISTING INLETS THAT WERE CONSTRUCTED ACCORDING TO 02632–04 SHALL BE MAINTAINED AS SPECIFIED IN DETAIL 02632–04.
6. EOR TO BE RESPONSIBLE FOR DESIGNING STRUCTURAL COMPONENTS IN THIS DETAIL.

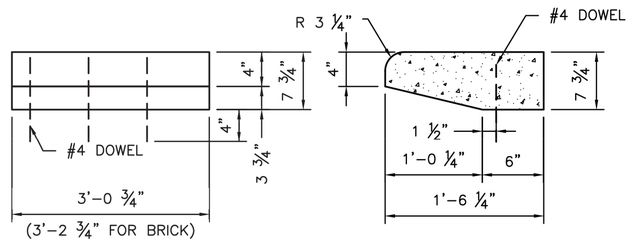
GENERAL NOTES:

1. USE STANDARD CAST IRON FRAME & PLATES.
2. LEAD SHALL LEAVE INLET AT LOCATION AND GRADE REQUIRED.



HALF SECTION THRU GRATE HALF SECTION THRU CURB BEAM

SECTION B–B



HALF FRONT ELEV TRANSVERSE SECTION

PRECAST CURB BEAM

NO.	DATE	REVISION	APP.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

STORM SEWER TYPE "B–B" INLET FOR MAINTENANCE ONLY

(SCALE: NOT TO SCALE)

APPROVED BY:

CITY ENGINEER	DIRECTOR OF HPW
Signed by: 1BEBB22072F84DC...	Signed by: BE463EF0DF454EB...
EFF DATE: MAR–02–2026	DWG NO: 02632–04

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Houston, Texas 77042
P 713 747 2399
F 713 748 3748
TBPE Firm Reg. #4575

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NOT INTENDED FOR PERMIT, BIDDING OR CONSTRUCTION
ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P–6382

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

STORM
STANDARD DETAILS

SHEET 12 OF 15

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
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NOT TO SCALE	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 236 OF 369	

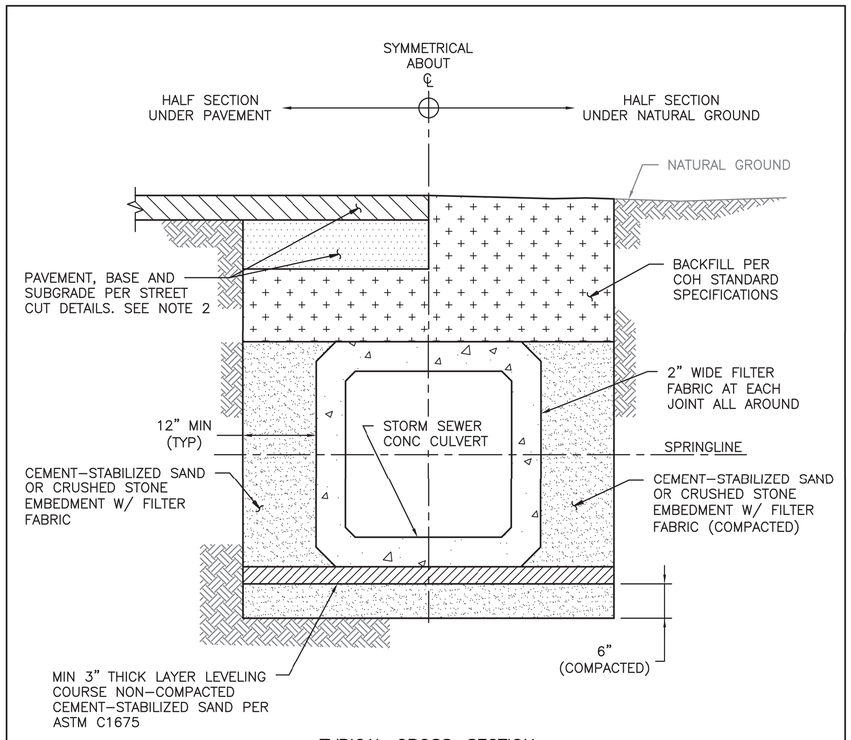
DISCLAIMER:
THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. THE DESIGN REQUIREMENTS ON THIS STANDARD DO NOT PURPORT TO ADDRESS ALL OF THE SAFETY CONCERNS ASSOCIATED WITH THEIR USE. THE ENGINEER OF RECORD (EOR) IS TO REVIEW THESE DESIGN REQUIREMENTS AND BY AUTHORIZING THEIR USE, ACCEPTS RESPONSIBILITY FOR THEIR APPLICABILITY, ADEQUACY AND SAFETY. NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER. THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

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NO.	DATE	REVISION	APP.



TYPICAL CROSS–SECTION

NOTES:

1. WHERE MULTIPLE BOX SEWER ARE USED IN THE SAME TRENCH, MIN OUTSIDE TO OUTSIDE BOX SEWER SEPARATION SHALL BE 6".
2. REFER TO COH STANDARD DETAILS 02951–01 THROUGH 05 FOR STREET CUT REQUIREMENTS.

DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. THE DESIGN REQUIREMENTS ON THIS STANDARD DO NOT PURPORT TO ADDRESS ALL OF THE SAFETY CONCERNS ASSOCIATED WITH THEIR USE. THE ENGINEER OF RECORD (EOR) IS TO REVIEW THESE DESIGN REQUIREMENTS AND BY AUTHORIZING THEIR USE, ACCEPTS RESPONSIBILITY FOR THEIR APPLICABILITY, ADEQUACY AND SAFETY. NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER. THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

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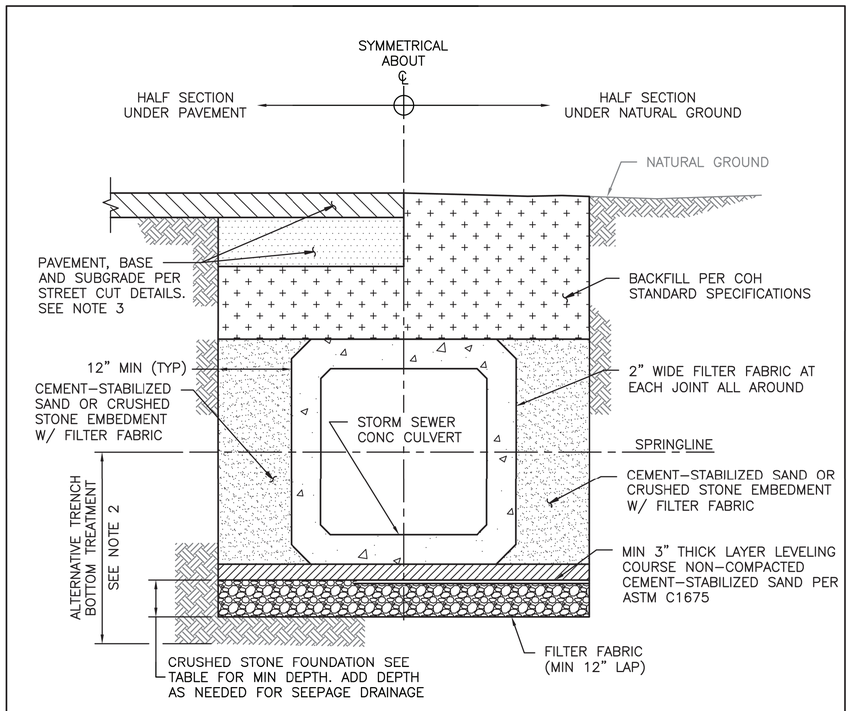
CITY ENGINEER	DIRECTOR OF HPW
Signed by: 1BEBB22072F84DC...	Signed by: BE463EF0CF454EB...

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

PRECAST CONCRETE BOX STORM SEWER BEDDING AND BACKFILL FOR DRY STABLE TRENCH

(SCALE: NOT TO SCALE)

EFF DATE: MAR–02–2026 | DWG NO: 02317–05



TYPICAL CROSS–SECTION

NOTES:

1. WHERE MULTIPLE BOX SEWERS ARE USED IN THE SAME TRENCH, MIN OUTSIDE TO OUTSIDE BOX SEWER SEPARATION SHALL BE 6".
2. ALTERNATIVE TRENCH BOTTOM TREATMENT MAY BE USED AS APPROVED BY THE CITY ENGINEERS AND AS PAID FOR IN THE PROPOSAL.
3. REFER TO COH STANDARD DETAILS 02951–01 THROUGH 05 FOR STREET CUT REQUIREMENTS.

TABLE

CULVERT SIZE (FT)	FOUNDATION DEPTH (INCHES)
3' X 2' TO 6' X 6'	12"
6' X 6' AND LARGER	18"

DISCLAIMER: THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. THE DESIGN REQUIREMENTS ON THIS STANDARD DO NOT PURPORT TO ADDRESS ALL OF THE SAFETY CONCERNS ASSOCIATED WITH THEIR USE. THE ENGINEER OF RECORD (EOR) IS TO REVIEW THESE DESIGN REQUIREMENTS AND BY AUTHORIZING THEIR USE, ACCEPTS RESPONSIBILITY FOR THEIR APPLICABILITY, ADEQUACY AND SAFETY. NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER. THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

APPROVED BY:

CITY ENGINEER	DIRECTOR OF HPW
Signed by: 1BEBB22072F84DC...	Signed by: BE463EF0CF454EB...

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

PRECAST CONCRETE BOX STORM SEWER BEDDING AND BACKFILL FOR WET STABLE TRENCH

(SCALE: NOT TO SCALE)

EFF DATE: MAR–02–2026 | DWG NO: 02317–06

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SURVEYED BY: Kuo&Associates
FB NO. P–6382

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

STORM
STANDARD DETAILS

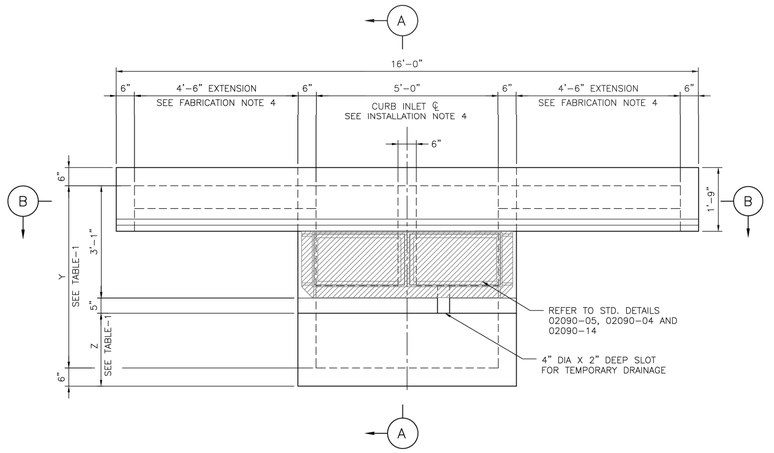
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NOT TO SCALE	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 237 OF 369	

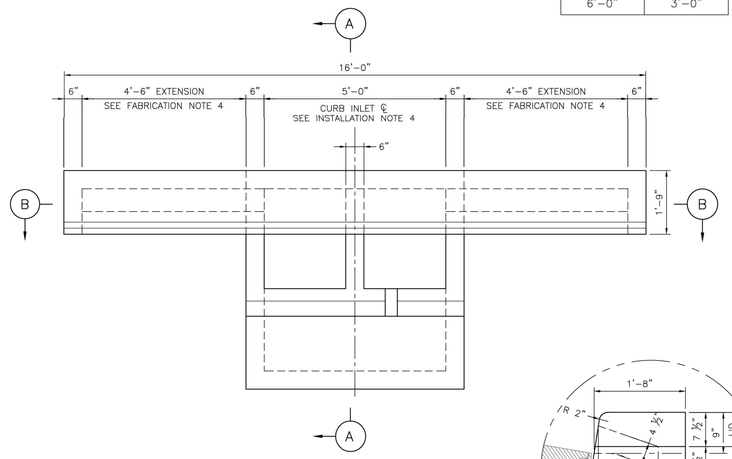
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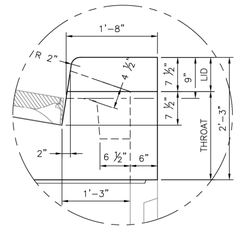
PLAN VIEW
(SHOWING LEFT AND RIGHT EXTENSIONS)



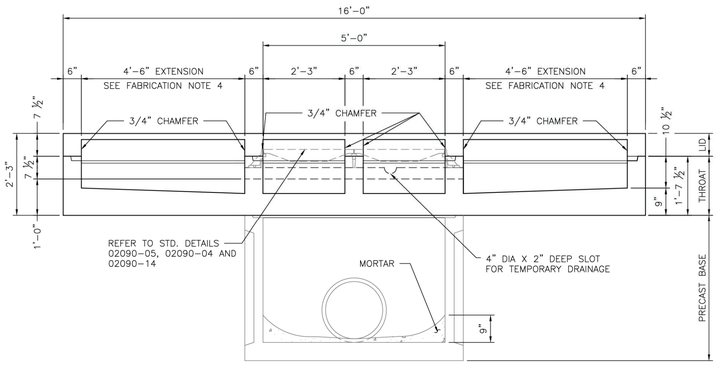
PLAN VIEW WITHOUT FRAME
(SHOWING LEFT AND RIGHT EXTENSIONS)

TABLE-1

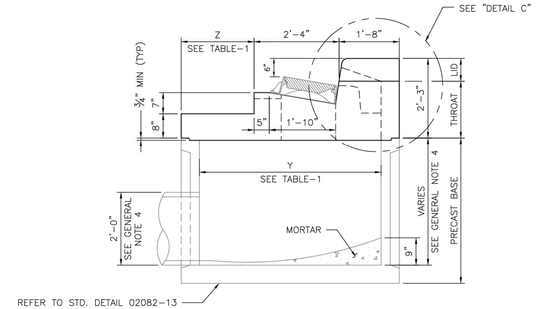
SIZE (Y)	Z
3'-0"	0'-0"
4'-0"	1'-0"
5'-0"	2'-0"
6'-0"	3'-0"



DETAIL C



SECTION B-B
(SHOWING LEFT AND RIGHT EXTENSIONS)



SECTION A-A

FABRICATION NOTES:

1. PROVIDE CLASS "H" CONCRETE IN ACCORDANCE WITH TEXAS DEPARTMENT OF TRANSPORTATION ITEM 421 AND HAVING A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI.
2. PROVIDE GRADE 60 REINFORCING STEEL OR EQUIVALENT AREA OF WWR.
3. PROVIDE TYPICAL CLEAR COVER OF 1 ½" TO REINFORCING STEEL FROM SURFACE OF CONCRETE OR LOWER OUTSIDE SHOULDER.
4. EXTENSIONS MAY BE RIGHT, OR LEFT (INLET TYPE B-B(1)), BOTH (INLET TYPE B-B(2)) OR NONE (INLET TYPE B-B). PROVIDE EXTENSIONS AS SPECIFIED ELSEWHERE IN PLANS.
5. DESIGN TONGUE AND GROOVE JOINTS FOR FULL CLOSURE ON BOTH SHOULDERS. MINIMUM SPIGOT DEPTH IS ¾". TOP SLAB MAY EMPLOY A BUTT JOINT WITH DOWELS AT THE CONTRACTOR'S OPTION.
6. PROVIDE LIFTING DEVICES IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
7. CHAMFER VERTICAL EDGES ON INLET LID ¾" AS SHOWN IN SECTION B-B.

INSTALLATION NOTES:

1. INLET THROAT IS PLACED UNDER ROADWAY AND INTENDED FOR DIRECT TRAFFIC. INLET LID IS NOT FOR DIRECT TRAFFIC. DO NOT PLACE INLET LID IN ROADWAY.
2. SEAL TONGUE AND GROOVE JOINTS AND BUTT JOINTS WITH PREFORMED OR BULK MASTIC IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS. TONGUE AND GROOVE JOINTS MAY BE GROUTED NO MORE THAN 1" BETWEEN EACH SECTION, OR ½ THE JOINT DEPTH, WHICHEVER IS GREATER.
3. DO NOT GROUT RUBBER GASKET JOINTS WITHOUT MANUFACTURER'S RECOMMENDATION.
4. REFERENCE POINT IS LOCATED WHERE THE CENTERLINE (℄) OF THE MAIN THROAT INTERSECTS THE NORMAL GUTTER LINE. REFER TO STD. DETAIL 02771-03 CURB AND GUTTER TRANSITION FOR PRECAST INLET TYPE B-B FOR MORE INFORMATION.

GENERAL NOTES:

1. DESIGNED ACCORDING TO ASTM C913.
2. OPEN AREA OF MAIN THROAT = 324 SQ IN. OPEN AREA OF ONE EXTENSION THROAT = 324 SQ IN.
3. PAYMENT FOR INLET IS PER COH STANDARD SPECIFICATION 02633. EXTENSIONS ARE SUBSIDIARY TO INLET.
4. DIMENSION VARIES BASED ON PIPE DIAMETER AND WALL THICKNESS.

APPROVED BY:	APPROVED BY:
Signed by: 19EE5B2291CF445C...	Signed by: 4C4E1E1CF4544EB...
CITY ENGINEER	DIRECTOR OF HOUSTON PUBLIC WORKS
EFF DATE: MAR-02-2026	DWG NO: 02633-02

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

PRECAST CONCRETE STORM SEWER INLET TYPE "B-B", "B-B(1)" AND "B-B(2)"

	FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE	
NOT TO SCALE	

NO.	DATE	REVISION	APP.

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SURVEYED BY: Kuo&Associates
FB NO. P-6382

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

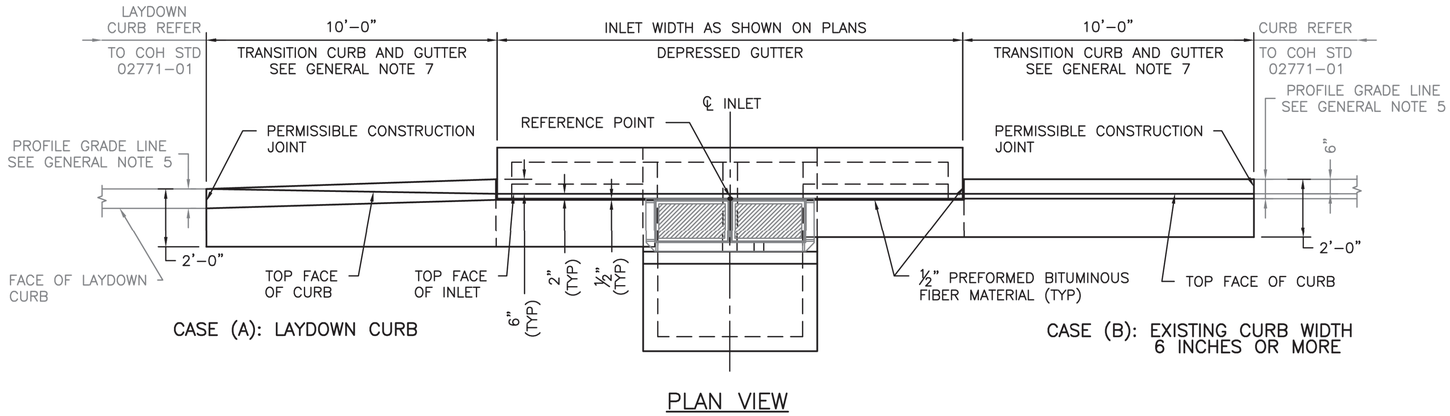
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

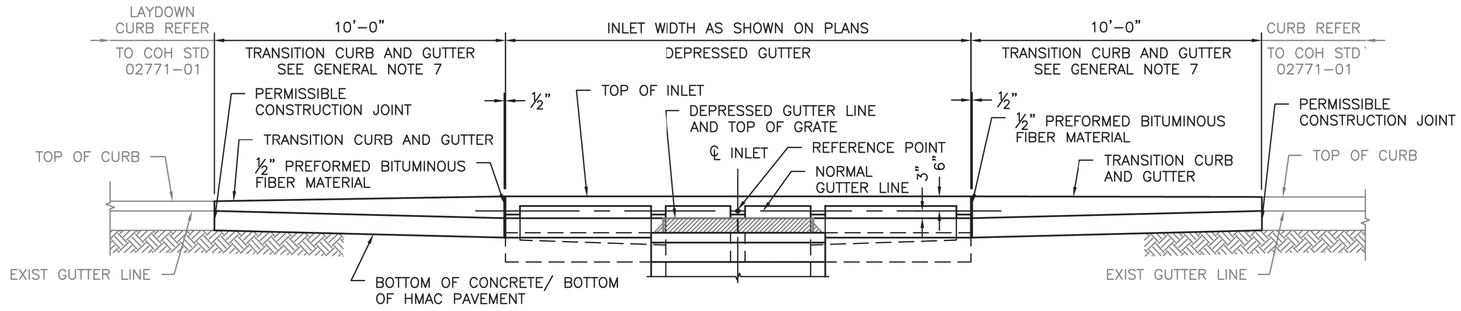
STORM
STANDARD DETAILS

SHEET 14 OF 15

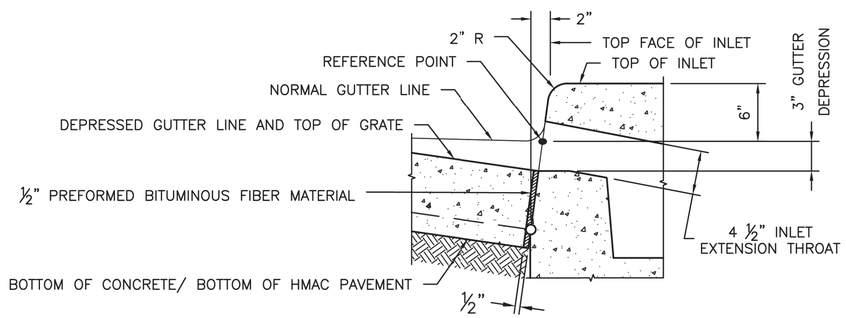
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ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 238 OF 369	



PLAN VIEW



ELEVATION



SECTION AT GUTTER AND INLET

(REINFORCING STEEL NOT SHOWN FOR CLARITY)

CONSTRUCTION NOTES:

1. ALIGN TOP FACE OF CURB WITH TYPE B–B INLET AS SHOWN.

MATERIAL NOTES:

1. PROVIDE ½" PREFORMED BITUMINOUS FIBER MATERIAL.

GENERAL NOTES:

1. REFERENCE POINT IS LOCATED WHERE THE CENTERLINE OF THE MAIN THROAT INTERSECTS THE NORMAL GUTTER LINE.
2. REFER TO STD. DETAIL 02633–02 PRECAST CONCRETE STORM SEWER INLET TYPE B–B FOR DETAILS AND NOTES NOT SHOWN HERE.
3. ALL CURB, AND CURB AND GUTTER MATERIALS SHOULD BE IN ACCORDANCE WITH CITY OF HOUSTON STANDARD SPECIFICATIONS 02771.
4. EXPANSION AND CONTRACTION JOINTS SHALL BE CONSTRUCTED TO MATCH PAVEMENT JOINTS IN ALL CURBS AND CURB AND GUTTERS ADJACENT TO JOINTED CONCRETE PAVEMENT. WHERE PLACEMENT OF CURB OR CURB AND GUTTER IS NOT ADJACENT TO CONCRETE PAVEMENT, EXPANSION JOINTS SHALL BE PROVIDED AT STRUCTURES, CURB RETURNS AT STREETS, AND AT LOCATIONS DIRECTED BY THE ENGINEER.
5. USUAL PROFILE GRADE LINE. REFER TO TYPICAL SECTIONS AND PLAN–PROFILE SHEETS FOR EXACT LOCATIONS.
6. CURB AND GUTTER TRANSITIONS ARE PAID FOR AND IN ACCORDANCE WITH CITY OF HOUSTON STANDARD SPECIFICATION 02771.
7. FIELD CONDITIONS MAY REQUIRE A LONGER OR SHORTER TRANSITION, AND SHALL BE SHOWN IN THE PLANS AS DIRECTED BY ENGINEER.

NO.	DATE	REVISION	APP.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

CURB AND GUTTER TRANSITION FOR PRECAST INLET TYPE "B–B", "B–B(1)" AND "B–B(2)"
(SCALE: NOT TO SCALE)

APPROVED BY:

CITY ENGINEER	DIRECTOR OF HPW
Signed by: 1BEBB22072F84DC...	Signed by: BE463EF0DF454EB...
EFF DATE: MAR–02–2026	DWG NO: 02771–03

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P–6382

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

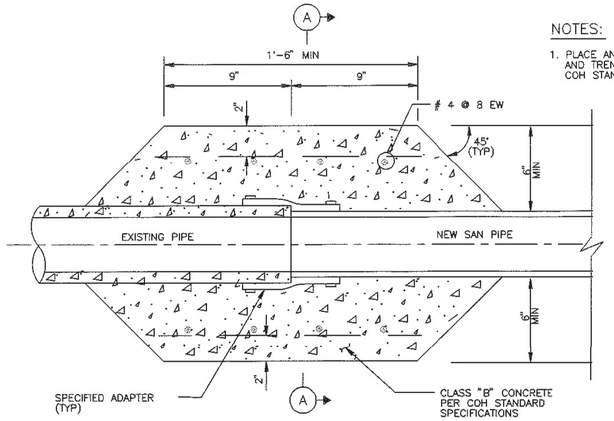
STORM
STANDARD DETAILS

SHEET 15 OF 15

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CITY OF HOUSTON PM	
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SHEET NO. 239 OF 369	

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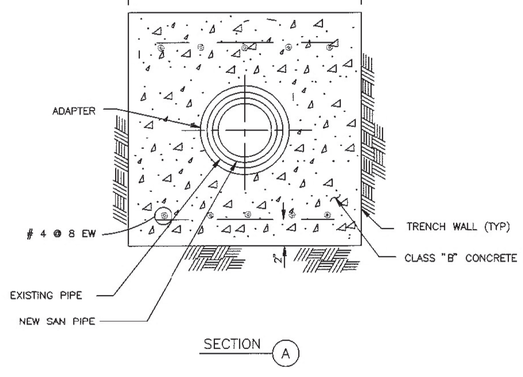
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NOTES:

1. PLACE AND COMPACT EMBEDMENT AND TRENCH ZONE BACKFILL PER COH STANDARD SPECIFICATIONS.

LONGITUDINAL SECTION



SECTION (A)

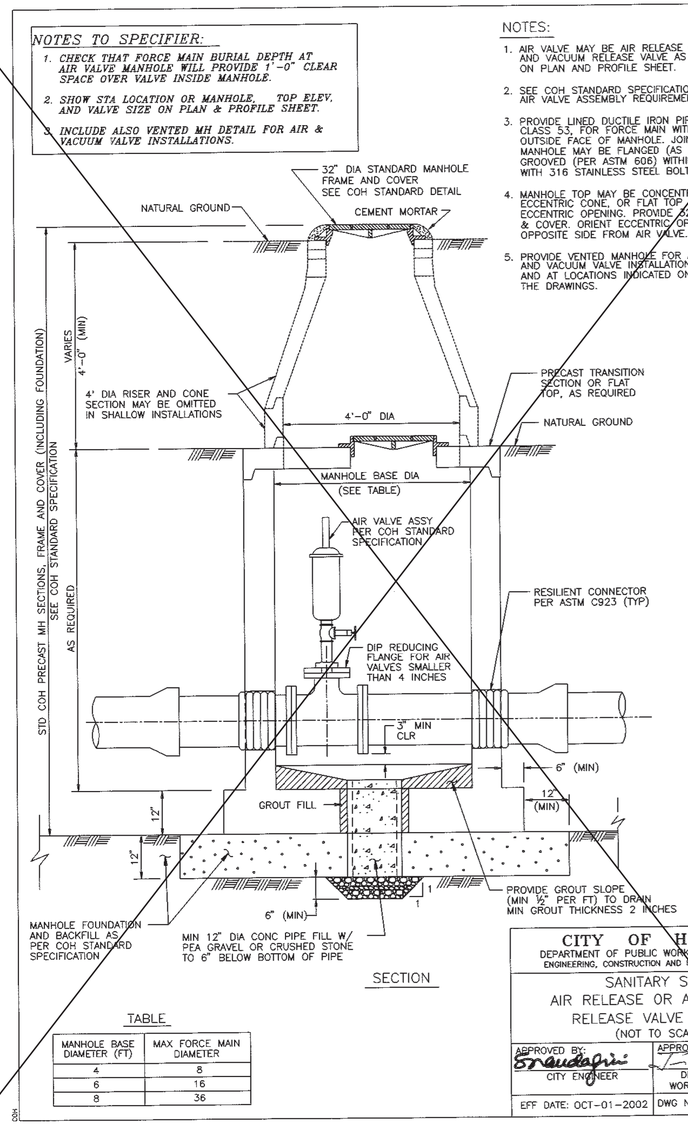
CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION	
SANITARY SEWER PIPE TRANSITION FOR 36" SEWER AND SMALLER (NOT TO SCALE)	
APPROVED BY: CITY ENGINEER	APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: OCT-01-2002	DWG NO: 02531-04

NOTES TO SPECIFIER:

1. *CHECK THAT FORCE MAIN BURIAL DEPTH AT AIR VALVE MANHOLE WILL PROVIDE 1'-0" CLEAR SPACE OVER VALVE INSIDE MANHOLE.*
2. *SHOW STA LOCATION OR MANHOLE, TOP ELEV, AND VALVE SIZE ON PLAN & PROFILE SHEET.*
3. *INCLUDE ALSO VENTED MH DETAIL FOR AIR & VACUUM VALVE INSTALLATIONS.*

NOTES:

1. AIR VALVE MAY BE AIR RELEASE OR AIR AND VACUUM RELEASE VALVE AS NOTED ON PLAN AND PROFILE SHEET.
2. SEE COH STANDARD SPECIFICATION FOR AIR VALVE ASSEMBLY REQUIREMENTS.
3. PROVIDE LINED DUCTILE IRON PIPE, THICK CLASS 53, FOR FORCE MAIN WITHIN 12" OF OUTSIDE FACE OF MANHOLE. JOINTS WITHIN MANHOLE MAY BE FLANGED (AS SHOWN) OR GROOVED (PER ASTM 606) WITHIN MANHOLE, WITH 316 STAINLESS STEEL BOLTS.
4. MANHOLE TOP MAY BE CONCENTRIC CONE, ECCENTRIC CONE, OR FLAT TOP WITH ECCENTRIC OPENING. PROVIDE 32" FRAME & COVER. ORIENT ECCENTRIC OPENING OPPOSITE SIDE FROM AIR VALVE.
5. PROVIDE VENTED MANHOLE FOR AIR AND VACUUM VALVE INSTALLATIONS AND AT LOCATIONS INDICATED ON THE DRAWINGS.



SECTION

TABLE

MANHOLE BASE DIAMETER (FT)	MAX FORCE MAIN DIAMETER
4	8
6	16
8	36

CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION	
SANITARY SEWER AIR RELEASE OR AIR/VACUUM RELEASE VALVE MANHOLE (NOT TO SCALE)	
APPROVED BY: CITY ENGINEER	APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: OCT-01-2002	DWG NO: 02082-09

NO.	DATE	REVISION	APP.

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TBPE Firm Reg. #4575

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FB NO. P-6382

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ENGINEER: RAHUL B MENON, P.E
P.E.Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

SANITARY
STANDARD DETAILS

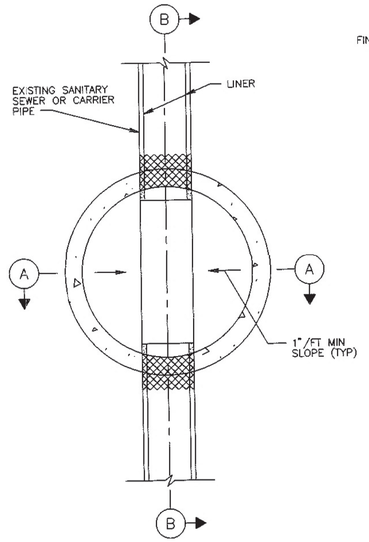
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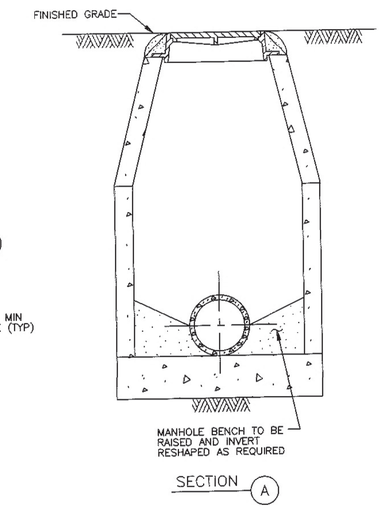
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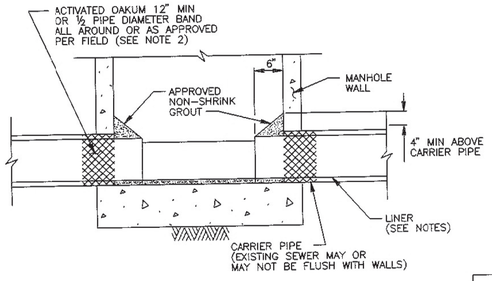
1. ANNULAR SPACE SHALL BE FILLED WITH NON-SHRINK GROUT, MINIMUM 12-INCH OR ONE HALF PIPE DIAMETER OR AS APPROVED BY ENGINEER.



PLAN



SECTION A



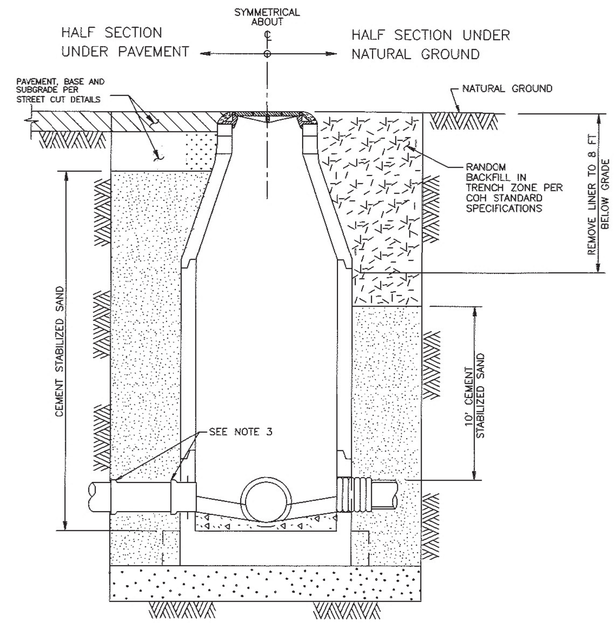
SECTION B

CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION	
SANITARY SEWER SEALING OF SLIPLINING AT MANHOLE (NOT TO SCALE)	
APPROVED BY: CITY ENGINEER	APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: OCT-01-2002	DWG NO: 02531-01

COH

NOTES:

1. GROUTING OF MANHOLE STRUCTURE ANNULAR SPACE WILL BE PERMITTED IN CASES WHERE INSUFFICIENT WORK SPACE EXISTS FOR PLACEMENT AND COMPACTATION OF CEMENT STABILIZED SAND, PER COH STANDARD SPECIFICATION FOR TUNNEL GROUT.
2. THIS DETAIL ALSO APPLIES TO BACKFILL OF SHAFTS WITHOUT STRUCTURES.
3. ARRANGE PIPE JOINTS AS SHOWN WHEN USING RIGID CONNECTION TO CAST IN PLACE MANHOLE BASE.



TYPICAL CROSS – SECTION

CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION	
SANITARY SEWER BACKFILL OF SHAFTS (NOT TO SCALE)	
APPROVED BY: CITY ENGINEER	APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: OCT-01-2002	DWG NO: 02317-08

COH

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FB NO. P-6382

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

SANITARY
STANDARD DETAILS

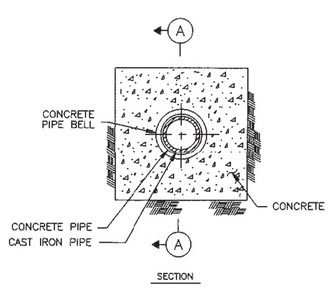
SHEET 2 OF 3

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CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 241 OF 369	

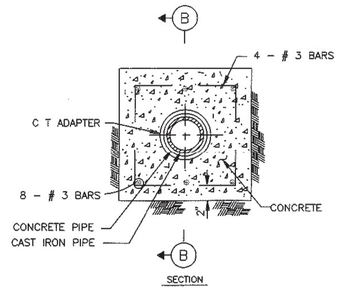
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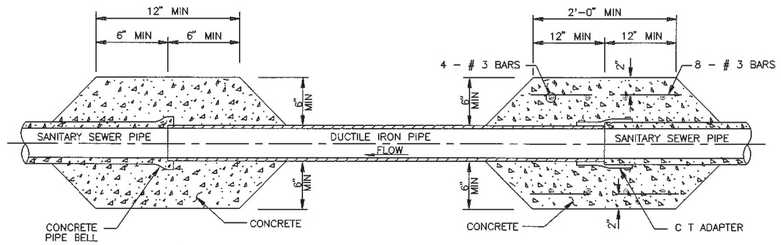
1. THE CONTRACTOR SHALL CENTER A MINIMUM OF 18 FOOT JOINT OF DUCTILE IRON PIPE OR C900 PVC PIPE ACROSS THE CENTER OF THE PROPOSED STORM SEWER.



SECTION



SECTION



LONGITUDINAL CROSS-SECTION A

DOWNSTREAM CONNECTION

LONGITUDINAL CROSS-SECTION B

UPSTREAM CONNECTION

CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING ENGINEERING, CONSTRUCTION AND REAL ESTATE DIVISION	
SANITARY SEWER DUCTILE IRON PIPE STORM SEWER CROSSING (NOT TO SCALE)	
APPROVED BY: CITY ENGINEER	APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE:OCT-01-2002	DWG NO: 02531-03

NOTES:

1.) MATERIAL SHALL MEET OR EXCEED MINIMUM REQUIREMENTS OF ASTM A36 CARBON STEEL.

2.) TOP AND BOTTOM RINGS SHALL HAVE A CONTINOUS WELD.

3.) ALL "M5" STYLE RISERS ARE FOR HEIGHT ADJUSTMENTS EQUAL TO OR LESS THAN THE THICKNESS OF THE MANHOLE COVER.

4.) EACH RISER IS CUSTOM FABRICATED FROM MEASUREMENTS PROVIDED WITH EACH ORDER. REQUIRED MEASUREMENTS INCLUDE THE FOLLOWING:
A. EXIST. MANHOLE COVER DIAMETER - TOP & BOTTOM
B. EXISTING MANHOLE COVER THICKNESS
C. REQUIRED HEIGHT OF ADJUSTMENT

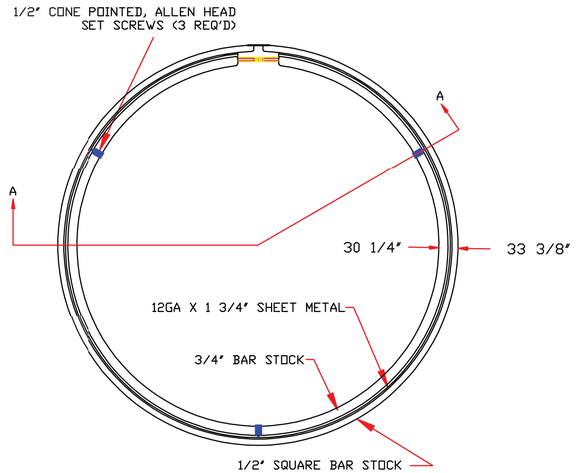
5.) MINIMUM RECOMMENDED HEIGHT OF ADJUSTMENT FOR REPAVING PROJECTS IS 1".

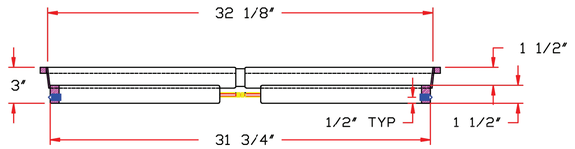
6.) HEIGHT ADJUSTMENTS ARE AVAILABLE IN 1/4" INCREMENTS.

7.) DURING INSTALLATION CHECK FOR FULL BEARING OF LOWER FRAME SECTION ON EXISTING CASTING.

8.) DIMENSIONS MAY VARY TO MEET EXISTING FIELD CONDITIONS. ANY CHANGE IN DIMENSIONS SHALL BE APPROVED BY THE OWNER.

9.) AFTER FABRICATION, RISERS ARE COATED WITH EITHER A WATER BASED BITUMINOUS ASPHALT EMULSION PAINT OR BASF E-COAT W/ CHARCOAL BLACK TOPCOAT.





CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING ENGINEERING, CONSTRUCTION AND REAL ESTATE GROUP	
STEEL ADJUSTING RISER (NOT TO SCALE)	
APPROVED BY: CITY ENGINEER	APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF. DATE: XX-XX-XX	DWG. NO: 02084-02B

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ENGINEER: RAHUL B MENON, P.E
P.E.Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P-6382

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
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SHEET 3 OF 3

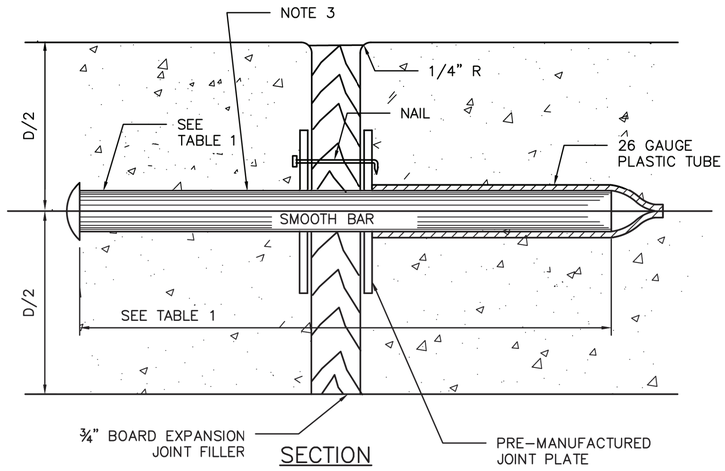
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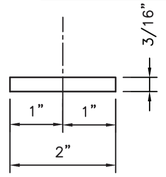
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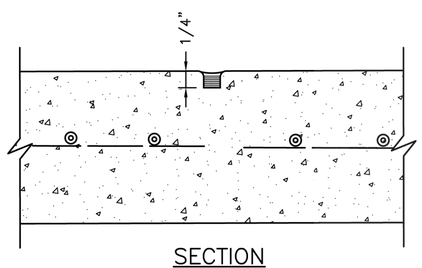
SECTION

DOWEL TYPE EXPANSION JOINT



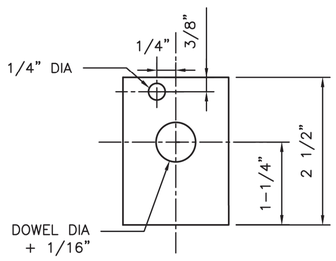
PLAN VIEW

JOINT PLATE



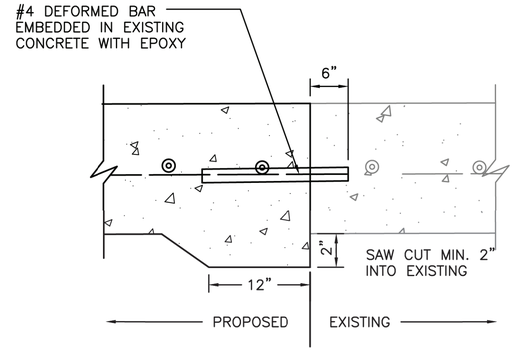
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CONTROL JOINT



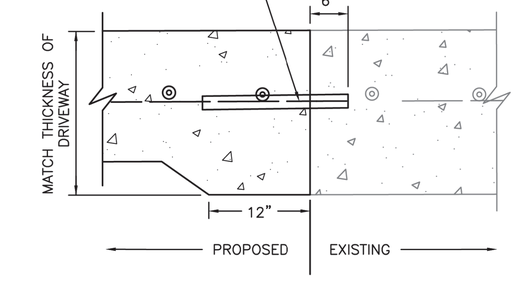
ELEVATION VIEW

JOINT PLATE



SECTION

SIDEWALK TO EXISTING SIDEWALK



SECTION

SIDEWALK TO EXISTING DRIVEWAY

TABLE 1

PAVEMENT THICKNESS (IN)	DOWEL SIZES AND SPACINGS		
	DIAMETER (IN)	LENGTH (IN)	SPACING (IN)
4 1/2	1/2	18	12
5	1/2	18	12
6	3/4	18	12
7	1	18	12

NOTES:

1. STEEL TO MEET ASTM STANDARD SPECIFICATIONS FOR CONCRETE REINFORCING BARS.
2. EXPANSION JOINT TO BE PLACED AT THE END OF EACH CURB RADIUS AND SPACED AT A MAXIMUM DISTANCE OF 3 FEET MAXIMUM SPACING FOR CONTROL JOINTS SHALL BE 5 FEET.
3. CENTER DOWEL HORIZONTALLY ON JOINT.
4. CENTER DOWEL VERTICALLY IN CONCRETE AS NEEDED TO MAINTAIN A 2 INCH MINIMUM COVER.

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THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. THE DESIGN REQUIREMENTS ON THIS STANDARD DO NOT PURPORT TO ADDRESS ALL OF THE SAFETY CONCERNS ASSOCIATED WITH THEIR USE. THE ENGINEER OF RECORD (EOR) IS TO REVIEW THESE DESIGN REQUIREMENTS AND BY AUTHORIZING THEIR USE, ACCEPTS RESPONSIBILITY FOR THEIR APPLICABILITY, ADEQUACY AND SAFETY. NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER. THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

SIDEWALK EXPANSION AND CONSTRUCTION JOINT DETAILS

(SCALE: NOT TO SCALE)

APPROVED BY:

DocuSigned by: Sukait kanwar 9EF8B0C641F5478...
CITY ENGINEER

DocuSigned by: KHANG NGUYEN 95A29EFDA75B4CD...
CITY TRAFFIC ENGINEER

DocuSigned by: Carol Haddock A93C410B72B3453...
DIRECTOR OF HPW

EFF DATE: NOV-27-2023 | DWG NO: 02752-02

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

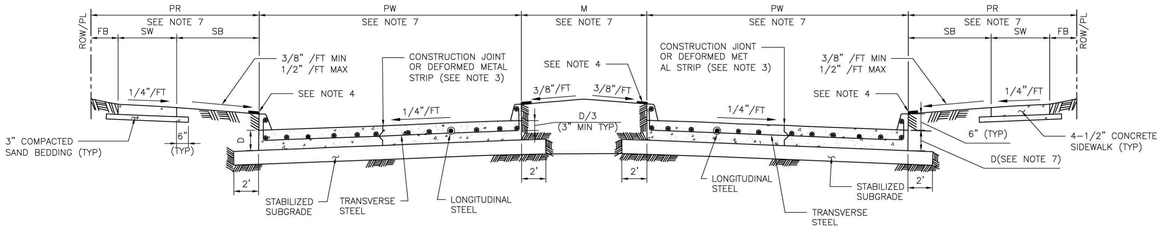
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

STREET PAVING AND SIDEWALK STANDARD DETAILS

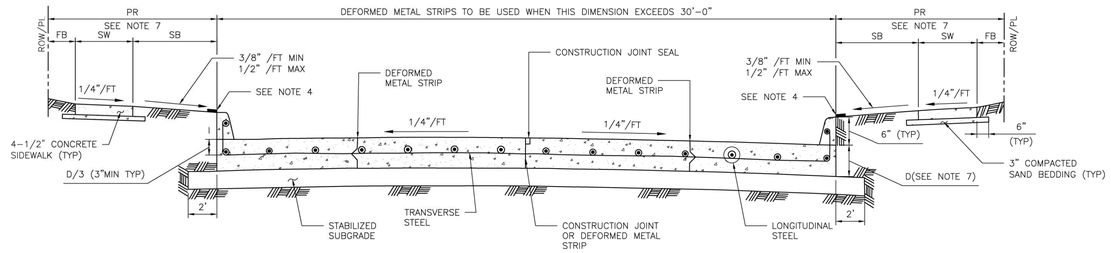
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TYPICAL DOUBLE ROADWAY SECTION FOR CONCRETE PAVEMENT WITH CURBS



TYPICAL SINGLE ROADWAY SECTION FOR CONCRETE PAVEMENT WITH CURBS

NOTES:

1. THE MAXIMUM WIDTH BETWEEN LONGITUDINAL JOINTS SHALL NOT EXCEED 15'-0".
2. ALL EARTHEN AREAS ARE TO BE HYDROMULCHED UNLESS SHOWN OTHERWISE ON DRAWINGS.
3. CONTRACTOR MAY SAW CUT IN LIEU OF DEFORMED METAL STRIP.
4. USE STRIP OF SOD GRASS TO PREVENT EROSION UNTIL STAND OF GRASS IS ESTABLISHED.
5. AN EQUAL OR LARGER AREA OF WELDED REINFORCEMENT BAR CONFORMING TO ASTM A497, MAY BE SUBSTITUTED FOR REBARS LISTED IN TABLE 1.
6. IF AVAILABLE ROW IS NOT SUFFICIENT TO ACCOMMODATE SIDEWALK WIDTH (SW) ACCORDING TO IDM REQUIREMENTS, ENGINEER SHALL OBTAIN A VARIANCE FROM THE CITY ENGINEER.
7. REFER TO CONTRACT DRAWINGS FOR PAVEMENT WIDTH (PW) AND PAVEMENT THICKNESS (D), MEDIAN (M), PEDESTRIAN REALM (PR), SIDEWALK (SW), FRONTAGE BUFFER (FB), AND SAFETY BUFFER (SB) WIDTHS.

TABLE 1

REINFORCING STEEL BAR SIZES AND SPACINGS FOR VARIOUS PAVEMENT THICKNESSES (D) WITH: MAXIMUM TRANSVERSE CONTROL JOINT SPACING = 20'-0"
MAXIMUM EXPANSION JOINT SPACING = 80'-0"
fc' = 4,000 PSI/28 DAYS AND FY = 60,000 PSI

PAVEMENT THICKNESS 'D' (IN)	PAVEMENT WIDTH 'PW' (FT)	LONGITUDINAL STEEL									TRAVERSE STEEL		
		#4 BARS			#5 BARS			#6 BARS			#4 BARS	#5 BARS	#6 BARS
		NUMBER OF BARS	SPACING (IN)	END BAR SPACING (IN)	NUMBER OF BARS	SPACING (IN)	END BAR SPACING (IN)	NUMBER OF BARS	SPACING (IN)	END BAR SPACING (IN)	SPACING (IN)	SPACING (IN)	SPACING (IN)
6	28	17	20.50	4.00	–	–	–	–	–	–	36	–	–
7	25	17	18.25	4.00	–	–	–	–	–	–	36	–	–
7	35	24	18.00	3.00	–	–	–	–	–	–	36	–	–
7	36	25	17.75	3.00	–	–	–	–	–	–	36	–	–
7	37	25	18.25	3.00	–	–	–	–	–	–	36	–	–
7	41	28	18.00	3.00	–	–	–	–	–	–	36	–	–
7	45	31	17.75	3.75	–	–	–	–	–	–	36	–	–
8	25	20	15.50	2.75	13	24.50	3.0	–	–	–	36	36	–
8	34	27	15.50	2.50	17	25.00	4.0	–	–	–	36	36	–
8	35	27	16.00	2.00	18	24.25	4.0	–	–	–	36	36	–
8	36	28	15.75	3.25	18	25.00	3.0	–	–	–	30	36	–
8	44	24	15.75	4.00	22	24.75	4.0	–	–	–	30	36	–
8	45	35	15.75	2.25	23	24.25	3.0	–	–	–	30	36	–
9	25	22	14.00	3.00	14	22.50	4.0	–	–	–	36	36	–
9	34	31	13.50	2.00	19	22.25	3.5	–	–	–	30	36	–
9	35	31	13.75	3.75	20	21.75	3.5	–	–	–	30	36	–
9	36	32	13.75	3.00	21	21.25	3.5	–	–	–	30	36	–
9	44	39	13.75	2.75	25	21.75	3.0	–	–	–	24	36	–
9	45	39	14.00	4.00	26	21.25	4.5	–	–	–	24	36	–
10	25	24	12.75	3.50	17	18.25	4.0	–	–	–	36	36	36
10	34	33	12.50	4.00	21	20.00	4.0	–	–	–	30	36	36
10	35	34	12.50	3.75	23	18.75	4.0	–	–	–	30	36	36
10	36	35	12.50	3.50	24	18.50	3.0	–	–	–	30	36	36
10	44	44	12.00	4.00	29	18.50	4.5	–	–	–	24	36	36
10	45	44	12.50	3.00	29	19.00	3.0	–	–	–	24	36	36
11	25	27	11.25	3.00	17	18.25	4.0	12	26.75	3	36	36	36
11	34	36	11.50	2.75	24	17.50	2.5	17	25.00	4	24	36	36
11	35	37	11.50	3.00	24	18.00	3.0	17	25.75	4	24	36	36
11	36	40	11.00	2.00	25	17.75	3.0	17	26.50	4	24	36	36
11	44	48	11.125	2.50	30	18.00	3.0	21	26.00	4	24	36	36
11	45	49	11.125	3.00	31	17.75	4.0	22	25.50	3	24	36	36
12	25	–	–	–	19	16.25	4.0	13	24.50	3	36	36	36
12	34	–	–	–	26	16.00	4.0	18	23.50	4	24	36	36
12	35	–	–	–	26	16.50	4.0	19	23.00	3	24	36	36
12	36	–	–	–	27	16.25	4.5	20	22.25	4.5	24	36	36
12	44	–	–	–	33	16.25	4.0	24	22.50	5	24	30	36
12	45	–	–	–	35	15.75	3.0	25	22.25	3	24	30	36

MINIMUM LAP LENGTH (L):
A. # 4 BARS ; L = 22 INCHES
B. # 5 BARS ; L = 27 INCHES
C. # 6 BARS ; L = 32 INCHES

APPROVED BY:	APPROVED BY:
Docusigned by: Sukat Kunwar	Docusigned by: KHANG NGUYEN
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY: Docusigned by: Carol Haddock	
DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV-27-2023	DWG NO: 02751-01

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

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HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

STREET PAVING AND SIDEWALK STANDARD DETAILS

SHEET 2 OF 11

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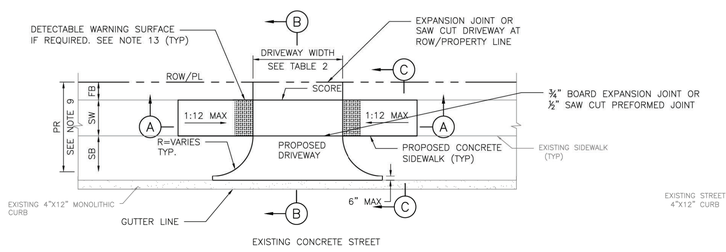
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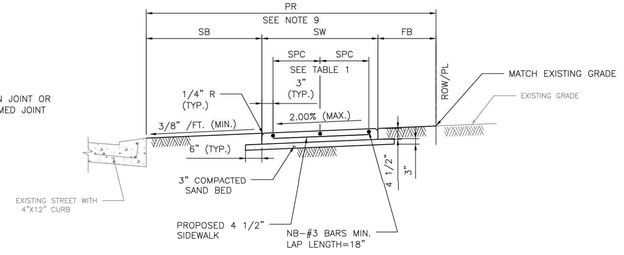
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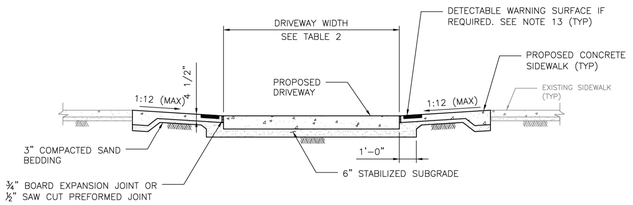
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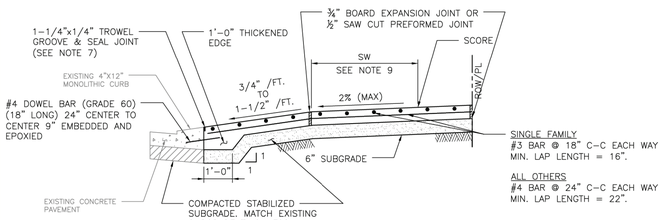
PLAN VIEW
DRIVEWAY



SECTION C–C
TYPICAL SIDEWALK SECTION



SECTION A–A
PROPOSED SIDEWALK, THROUGH DRIVEWAY WITH EXCESSIVE GRADES



SECTION B–B
TYPICAL DRIVEWAY SECTION

TABLE 1

REINFORCING STEEL INFORMATION
FOR 4 ½ " THICK SIDEWALKS
EXPANSION JOINT SPACING = 40 FT
fc' = 3,500 PSI AND fy = 60,000 PSI
REFER TO CONTRACT DRAWINGS FOR SIDEWALKS WIDER THAN 6 FEET.

SIDEWALK THICKNESS (IN)	SIDEWALK WIDTH (FT)	LONGITUDINAL STEEL			TRANSVERSE STEEL #3 BARS SPACING (IN)
		#3 BARS			
		NO. OF BARS "NB"	SPACING "SPC" (IN)	END BAR SPACING (IN)	
4.5	5	3	27	3	48
4.5	6	4	22	3	48

TABLE 2

DRIVEWAY DESIGN CRITERIA (1)(2)

TRAFFIC TYPE	TYPE A DRIVEWAY (FOR SINGLE FAMILY RESIDENTIAL HOUSES OR DUPLEXES)				TYPE B DRIVEWAY (SHARED ACCESS/SHARED DRIVEWAY)				TYPE C DRIVEWAY (COMMERCIAL DRIVEWAY)			
	WIDTH (FT)		RADIUS (FT)		WIDTH (FT)		RADIUS (FT)		WIDTH (FT)		RADIUS (FT)	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
ONE–WAY	10	12	4	10	12(5)	16(5)	4(5)	10(5)	15	20	10	20
TWO–WAY	10(3)	24(4)	4	10	16(6)	24	4	10	24	35	10	20

(1) REFER TO INFRASTRUCTURE DESIGN MANUAL ARTICLE 15.2.07.C.1.F FOR DRIVEWAYS THAT REQUIRE A VEHICLE SWEPT PATH ANALYSIS.
(2) REFER TO INFRASTRUCTURE DESIGN MANUAL ARTCILES 15.2.07.C.1.G.(1) AND 15.2.07.C.1.G.(2) FOR TYPE 1 PAE AND TYPE 2 PAE REQUIREMENTS.
(3) THE MINIMUM WIDTH FOR JOINT ACCESS DRIVEWAY IS 12 FT.
(4) REFER TO CHAPTER 42 OF THE CODE OF ORDINANCES FOR DRIVEWAY WIDTHS FOR NARROW LOTS.
(5) ONLY MURS AND COURTYARD STYLE DEVELOPMENTS ON CORNER LOTS CAN HAVE ONE–WAY DRIVEWAYS.
(6) REFER TO CHAPTER 42, SECTION 42–146 OF THE CODE OF ORDINANCES FOR EXCEPTIONS TO THE MINIMUM DRIVEWAY WIDTH FOR SHARED DRIVEWAYS.

NOTES:

1. REPAIR, RECONSTRUCTION OR REPLACEMENT OF SIDEWALKS SHALL MEET PERMITTING REQUIREMENTS OF CODE OF ORDINANCES SECTION 40–552.
2. FOR REPAIR, RECONSTRUCTION, OR REPLACEMENT OF EXISTING SIDEWALKS:
   - 2.1. EXISTING SIDEWALKS LESS THAN OR EQUAL TO 20 FEET IN TOTAL LENGTH:
     - 2.1.1. THE PROPOSED SIDEWALK WIDTH WILL BE ALLOWED TO MATCH THE EXISTING SIDEWALK.
   - 2.2. EXISTING SIDEWALKS GREATER THAN 20 FEET IN TOTAL LENGTH:
     - 2.2.1. THE SIDEWALK WIDTH FOR THE ENTIRE PROPERTY WIDTH SHALL BE IMPROVED TO MEET WIDTH REQUIREMENTS ACCORDING TO THE LATEST INFRASTRUCTURE DESIGN MANUAL.
   - 2.3. 20 FOOT TOTAL LENGTH IS DEFINED AS:
     - 2.3.1. UP TO 10 FEET ON BOTH SIDES OF THE DRIVEWAY; OR
     - 2.3.2. UP TO 20 FEET WHEN SIDEWALK AFFECTED IS LOCATED ONLY ON ONE SIDE OF THE DRIVEWAY.
3. IF AVAILABLE ROW IS NOT SUFFICIENT TO ACCOMMODATE SIDEWALK WIDTH (SW) ACCORDING TO IDM REQUIREMENTS, ENGINEER SHALL OBTAIN A VARIANCE FROM THE CITY ENGINEER.
4. DRIVEWAYS SHALL BE 6" THICK FOR SINGLE FAMILY OR DUPLEXES.
5. DRIVEWAYS AND SIDEWALKS SHALL BE CONSTRUCTED WITH PORTLAND CEMENT CONCRETE AND INCLUDE 5 1/2 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.
6. THE OUTER DOWEL BARS ARE TO BE LOCATED 12" FROM END OF PROPOSED EDGE OF DRIVEWAY RETURN. EXTEND DOWEL 3" INCHES INTO PROPOSED DRIVEWAY AND BEND REMAINING BAR TO EXTEND TO RADIUS RETURN BOTH SIDES.
7. TROWEL GROOVE SEALANT SHALL BE LOW MODULUS SILICONE OR POLYURETHANE SEALANT.
8. ALL JOINTS ALONG THE SIDEWALK SHALL BE CONSTRUCTED ACCORDING TO DRAWING 02752–02 AND SPECIFICATION 02752.
9. REFER TO CONTRACT DRAWINGS FOR PEDESTRIAN REALM (PR), SIDEWALK (SW), FRONTAGE BUFFER (FB), AND SAFETY BUFFER (SB) WIDTHS.
10. CEMENT STABILIZED SAND 1.5 SACKS OF CEMENT PER TON OF DRY SAND.
11. ALL RAMPS AND SIDEWALKS/WALKWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOUSTON PUBLIC WORKS STANDARDS, TEXAS ACCESSIBILITY STANDARDS (TAS) AND AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS. IF THERE IS A CONFLICT IN THE REQUIREMENTS, THE STRICTEST REQUIREMENTS SHALL GOVERN.
12. CURB RAMPS THAT ARE STEEPER THAN A 1:12 MAX SLOPE WILL NOT BE ACCEPTED BY THE CITY OF HOUSTON.
13. DETECTABLE WARNING SURFACES:
    - 13.1. SIDEWALK SHALL HAVE A DETECTABLE WARNING SURFACE WHERE:
      - 13.1.1. SIDEWALK INTERSECTS TYPE C DRIVEWAYS (COMMERCIAL DRIVEWAYS) THAT ARE STOP, YIELD OR TRAFFIC SIGNAL CONTROLLED; OR
      - 13.1.2. SIDEWALK SLOPE IS GREATER THAN 1:20 AND INTERSECTS A TYPE C DRIVEWAY (COMMERCIAL DRIVEWAY)
    - 13.2. DETECTABLE WARNING SURFACES ARE OPTIONAL WHERE SIDEWALKS INTERSECT TYPE A DRIVEWAYS (SINGLE FAMILY RESIDENTIAL HOUSES OR DUPLEXES) OR TYPE B DRIVEWAYS (SHARED ACCESS/SHARED DRIVEWAYS).
    - 13.3. REFER TO STANDARD DETAILS 02775–06 TO 02775–07 FOR DETECTABLE WARNING SURFACE STANDARDS.

APPROVED BY:	APPROVED BY:
DocuSigned by: Sukul Tanwar	DocuSigned by: Linhling Nguyen
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY: DocuSigned by: Carl Haddock	
DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV–27–2023	DWG NO: 02754–01A

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

DRIVEWAY DETAIL WITH 4"x12" CURB FOR LOCAL RESIDENTIAL STREETS

	FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE	
NOT TO SCALE	

NO.	DATE	REVISION	APP.

ISANI
civil ⁞ design ⁞ engineers
10448 Westoffice Drive
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F 713 748 3748
TBPE Firm Reg. #4575

SURVEYED BY: Kuo&Associates
FB NO. P–6382

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

STREET PAVING AND SIDEWALK STANDARD DETAILS

SHEET 3 OF 11

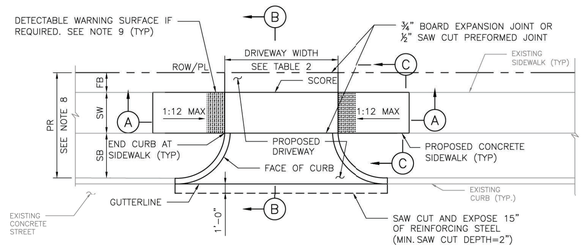
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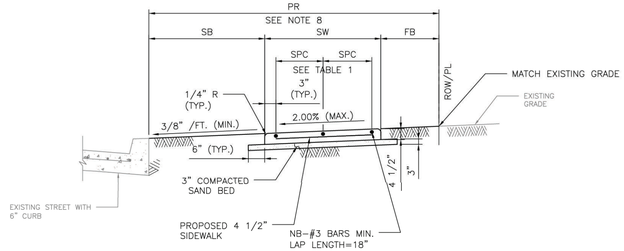
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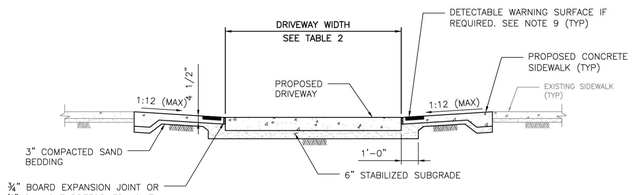
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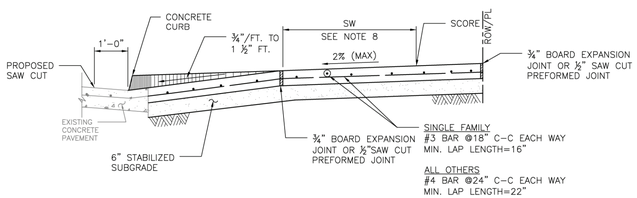
PLAN VIEW
DRIVEWAY



SECTION C–C
TYPICAL SIDEWALK SECTION



SECTION A–A
PROPOSED SIDEWALK THROUGH DRIVEWAY
WITH EXCESSIVE ELEVATION DIFFERENCE
WITH EXISTING SIDEWALK



SECTION B–B
TYPICAL DRIVEWAY SECTION

TABLE 1

REINFORCING STEEL INFORMATION
FOR 4 ½ " THICK SIDEWALKS
EXPANSION JOINT SPACING = 40 FT
fc' = 3,500 PSI AND fy = 60,000 PSI
REFER TO CONTRACT DRAWINGS FOR SIDEWALKS WIDER THAN 6 FEET.

SIDEWALK THICKNESS (IN)	SIDEWALK WIDTH (FT)	LONGITUDINAL STEEL			TRANSVERSE STEEL #3 BARS SPACING (IN)
		#3 BARS			
		NO. OF BARS "NB"	SPACING "SPC" (IN)	END BAR SPACING (IN)	
4.5	5	3	27	3	48
4.5	6	4	22	3	48

TABLE 2

DRIVEWAY DESIGN CRITERIA (1)(2)

TRAFFIC TYPE	TYPE A DRIVEWAY (FOR SINGLE FAMILY RESIDENTIAL HOUSES OR DUPLEXES)				TYPE B DRIVEWAY (SHARED ACCESS/SHARED DRIVEWAY)				TYPE C DRIVEWAY (COMMERCIAL DRIVEWAY)			
	WIDTH (FT)		RADIUS (FT)		WIDTH (FT)		RADIUS (FT)		WIDTH (FT)		RADIUS (FT)	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
ONE–WAY	10	12	4	10	12(3)	16(5)	4(5)	10(5)	15	20	10	20
TWO–WAY	10(3)	24(4)	4	10	16(6)	24	4	10	24	35	10	20

(1) REFER TO INFRASTRUCTURE DESIGN MANUAL ARTICLE 15.2.07.C.1.F FOR DRIVEWAYS THAT REQUIRE A VEHICLE SWEPT PATH ANALYSIS.
(2) REFER TO INFRASTRUCTURE DESIGN MANUAL ARTCILES 15.2.07.C.1.G.(1) AND 15.2.07.C.1.G.(2) FOR TYPE 1 PAE AND TYPE 2 PAE REQUIREMENTS.
(3) THE MINIMUM WIDTH FOR JOINT ACCESS DRIVEWAY IS 12 FT.
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(5) ONLY MURS AND COURTYARD STYLE DEVELOPMENTS ON CORNER LOTS CAN HAVE ONE–WAY DRIVEWAYS.
(6) REFER TO CHAPTER 42, SECTION 42–146 OF THE CODE OF ORDINANCES FOR EXCEPTIONS TO THE MINIMUM DRIVEWAY WIDTH FOR SHARED DRIVEWAYS.

NOTES:

1. REPAIR, RECONSTRUCTION OR REPLACEMENT OF SIDEWALKS SHALL MEET PERMITTING REQUIREMENTS OF CODE OF ORDINANCES SECTION 40–552.
2. FOR REPAIR, RECONSTRUCTION, OR REPLACEMENT OF EXISTING SIDEWALKS:
   - 2.1. EXISTING SIDEWALKS LESS THAN OR EQUAL TO 20 FEET IN TOTAL LENGTH:
     - 2.1.1. THE PROPOSED SIDEWALK WIDTH WILL BE ALLOWED TO MATCH THE EXISTING SIDEWALK.
   - 2.2. EXISTING SIDEWALKS GREATER THAN 20 FEET IN TOTAL LENGTH:
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   - 2.3. 20 FOOT TOTAL LENGTH IS DEFINED AS:
     - 2.3.1. UP TO 10 FEET ON BOTH SIDES OF THE DRIVEWAY; OR
     - 2.3.2. UP TO 20 FEET WHEN SIDEWALK AFFECTED IS LOCATED ONLY ON ONE SIDE OF THE DRIVEWAY.
3. ALL JOINTS ALONG THE SIDEWALK S-HALL BE CONSTRUCTED ACCORDING TO DRAWING 02752–02 AND SPECIFICATION 02752.
4. DRIVEWAYS SHALL BE MINIMUM 6" THICK FOR SINGLE FAMILY AND DUPLEXES. DRIVEWAYS SHALL BE MINIMUM 7" THICK FOR ALL OTHERS (I.E. COMMERCIAL, INDUSTRIAL, ETC.)
5. DRIVEWAYS AND SIDEWALKS SHALL BE CONSTRUCTED WITH PORTLAND CEMENT CONCRETE AND INCLUDE 5 1/2 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.
6. ALL RAMPS AND SIDEWALKS/WALKWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOUSTON PUBLIC WORKS STANDARDS, TEXAS ACCESSIBILITY STANDARDS (TAS) AND AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS. IF THERE IS A CONFLICT IN THE REQUIREMENTS, THE STRICTEST REQUIREMENTS SHALL GOVERN.
7. CURB RAMPS THAT ARE STEEPER THAN A 1:12 MAX SLOPE WILL NOT BE ACCEPTED BY THE CITY OF HOUSTON.
8. REFER TO CONTRACT DRAWINGS FOR PEDESTRIAN REALM (PR), SIDEWALK (SW), FRONTAGE BUFFER (FB), AND SAFETY BUFFER (SB) WIDTHS.
9. DETECTABLE WARNING SURFACES:
   - 9.1. SIDEWALK SHALL HAVE A DETECTABLE WARNING SURFACE WHERE:
     - 9.1.1. SIDEWALK INTERSECTS TYPE C DRIVEWAYS (COMMERCIAL DRIVEWAYS) THAT ARE STOP, YIELD, OR TRAFFIC SIGNAL CONTROLLED; OR
     - 9.1.2. SIDEWALK SLOPE IS GREATER THAN 1:20 AND INTERSECTS A TYPE C DRIVEWAY (COMMERCIAL DRIVEWAY)
   - 9.2. DETECTABLE WARNING SURFACES ARE OPTIONAL WHERE SIDEWALKS INTERSECT TYPE A DRIVEWAYS (SINGLE FAMILY RESIDENTIAL HOUSES OR DUPLEXES) OR TYPE B DRIVEWAYS (SHARED ACCESS/SHARED DRIVEWAYS).
   - 9.3. REFER TO STANDARD DETAILS 02775–06 TO 02775–07 FOR DETECTABLE WARNING SURFACE STANDARDS.

APPROVED BY:	APPROVED BY:
DocuSigned by: Suhail Kanwar	DocuSigned by: KHANG NGUYEN
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY: DocuSigned by: Carl Haddock	
DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV–27–2023	DWG NO: 02754–01B

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

DRIVEWAY DETAIL WITH 6" CURBED STREETS

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NOT TO SCALE	

NO.	DATE	REVISION	APP.

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civil · design · engineers
10448 Westoffice Drive
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F 713 748 3748
TBPE Firm Reg. #4575

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P–6382

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

STREET PAVING AND SIDEWALK STANDARD DETAILS

SHEET 4 OF 11

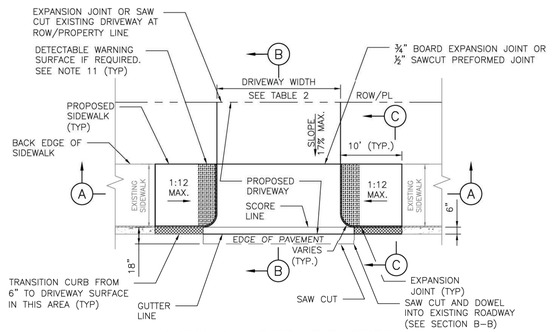
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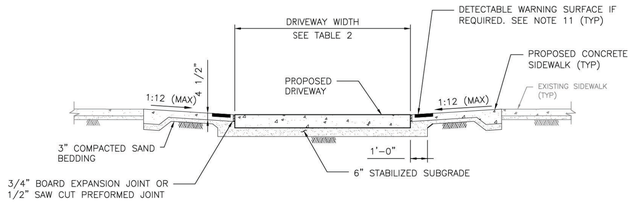
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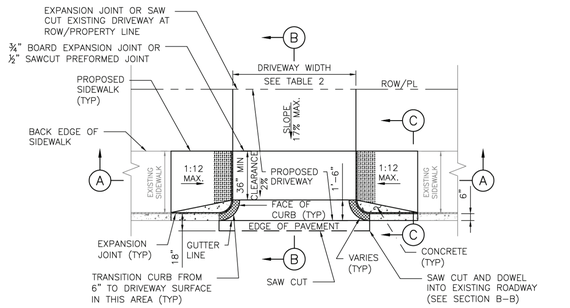
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WARRANTY OF ANY KIND IS MADE BY THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER.



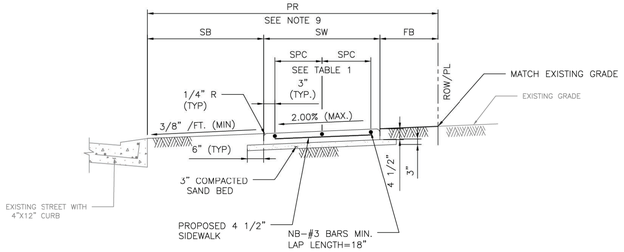
OPTION 1 – CURB LEVEL SIDEWALK
PLAN VIEW – DRIVEWAY WITHOUT CURB AT CURB RETURN



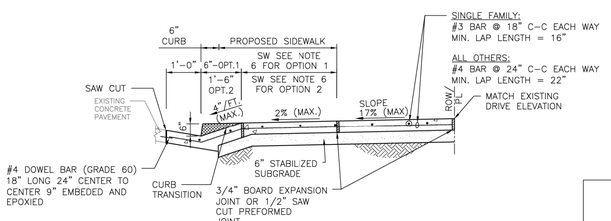
SECTION A–A
PROPOSED SIDEWALK THROUGH DRIVEWAY



OPTION 2 – CURB LEVEL SIDEWALK
PLAN VIEW – DRIVEWAY WITH CURB AT CURB RETURN



SECTION C–C
TYPICAL SIDEWALK SECTION



SECTION B–B
TYPICAL DRIVEWAY SECTION THROUGH DRIVEWAY

TABLE 1

REINFORCING STEEL INFORMATION
FOR 4 ½ " THICK SIDEWALKS
EXPANSION JOINT SPACING = 40 FT
fc' = 3,500 PSI AND fy = 60,000 PSI
REFER TO CONTRACT DRAWINGS FOR SIDEWALKS WIDER THAN 6 FEET.

SIDEWALK THICKNESS (IN)	SIDEWALK WIDTH (FT)	LONGITUDINAL STEEL			TRANSVERSE STEEL #3 BARS SPACING (IN)
		#3 BARS			
		NO. OF BARS "NB"	SPACING "SPC" (IN)	END BAR SPACING (IN)	
4.5	5	3	27	3	48
4.5	6	4	22	3	48

TABLE 2

DRIVEWAY DESIGN CRITERIA (1)(2)

TRAFFIC TYPE	TYPE A DRIVEWAY (FOR SINGLE FAMILY RESIDENTIAL HOUSES OR DUPLEXES)				TYPE B DRIVEWAY (SHARED ACCESS/SHARED DRIVEWAY)				TYPE C DRIVEWAY (COMMERCIAL DRIVEWAY)			
	WIDTH (FT)		RADIUS (FT)		WIDTH (FT)		RADIUS (FT)		WIDTH (FT)		RADIUS (FT)	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
ONE-WAY	10	12	4	10	12(5)	16(5)	4(5)	10(5)	15	20	10	20
TWO-WAY	10(3)	24(4)	4	10	16(6)	24	4	10	24	35	10	20

(1) REFER TO INFRASTRUCTURE DESIGN MANUAL ARTICLE 15.2.07.C.1.F FOR DRIVEWAYS THAT REQUIRE A VEHICLE SWEPT PATH ANALYSIS.
(2) REFER TO INFRASTRUCTURE DESIGN MANUAL ARTCILES 15.2.07.C.1.G.(1) AND 15.2.07.C.1.G.(2) FOR TYPE 1 PAE AND TYPE 2 PAE REQUIREMENTS.
(3) THE MINIMUM WIDTH FOR JOINT ACCESS DRIVEWAY IS 12 FT.
(4) REFER TO CHAPTER 42 OF THE CODE OF ORDINANCES FOR DRIVEWAY WIDTHS FOR NARROW LOTS.
(5) ONLY MURS AND COURTYARD STYLE DEVELOPMENTS ON CORNER LOTS CAN HAVE ONE-WAY DRIVEWAYS.
(6) REFER TO CHAPTER 42, SECTION 42-146 OF THE CODE OF ORDINANCES FOR EXCEPTIONS TO THE MINIMUM DRIVEWAY WIDTH FOR SHARED DRIVEWAYS.

NOTES:

1. REPAIR, RECONSTRUCTION OR REPLACEMENT OF SIDEWALKS SHALL MEET PERMITTING REQUIREMENTS OF CODE OF ORDINANCES SECTION 40–552.
2. FOR REPAIR, RECONSTRUCTION, OR REPLACEMENT OF EXISTING SIDEWALKS:
   - 2.1. EXISTING SIDEWALKS LESS THAN OR EQUAL TO 20 FEET IN TOTAL LENGTH:
     - 2.1.1. THE PROPOSED SIDEWALK WIDTH WILL BE ALLOWED TO MATCH THE EXISTING SIDEWALK.
   - 2.2. EXISTING SIDEWALKS GREATER THAN 20 FEET IN TOTAL LENGTH:
     - 2.2.1. THE SIDEWALK WIDTH FOR THE ENTIRE PROPERTY WIDTH SHALL BE IMPROVED TO MEET WIDTH REQUIREMENTS ACCORDING TO THE LATEST INFRASTRUCTURE DESIGN MANUAL.
   - 2.3. 20 FOOT TOTAL LENGTH IS DEFINED AS:
     - 2.3.1. UP TO 10 FEET ON BOTH SIDES OF THE DRIVEWAY; OR
     - 2.3.2. UP TO 20 FEET WHEN SIDEWALK AFFECTED IS LOCATED ONLY ON ONE SIDE OF THE DRIVEWAY.
3. PROPOSED SIDEWALKS THAT DO NOT FALL WITHIN THE SCOPE DEFINED IN NOTE 2 SHALL BE DESIGNED ACCORDING TO IDM REQUIREMENTS AND CONSTRUCTED ACCORDING TO THE CONTRACT DRAWINGS.
4. DRIVEWAY WIDTH VARIES TO MATCH EXISTING DRIVE.
5. DRIVEWAY DETAIL TO PROVIDE FOR SIDEWALK TRANSITION FROM EXISTING BACK OF CURB TO PROPOSED DRIVEWAY EDGE.
6. DRIVEWAY WITH WIDTH >5' @ 2% CROSS SLOPE QUALIFIES AS PASSING SPACE. (SEE OPTION 1 AND OPTION 2 PLANS)
7. ALL RAMPS AND SIDEWALKS/WALKWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOUSTON PUBLIC WORKS STANDARDS, TEXAS ACCESSIBILITY STANDARDS (TAS) AND AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS. IF THERE IS A CONFLICT IN THE REQUIREMENTS, THE STRICTEST REQUIREMENTS SHALL GOVERN.
8. CURB RAMPS THAT ARE STEEPER THAN A 1:12 MAX SLOPE WILL NOT BE ACCEPTED BY THE CITY OF HOUSTON.
9. REFER TO CONTRACT DRAWINGS FOR PEDESTRIAN REALM (PR), SIDEWALK (SW), FRONTAGE BUFFER (FB), AND SAFETY BUFFER (SB) WIDTHS.
10. DRIVEWAYS SHALL BE MINIMUM 6" THICK FOR SINGLE FAMILY AND DUPLEXES. DRIVEWAYS SHALL BE MINIMUM 7" THICK FOR ALL OTHERS (I.E. COMMERCIAL, INDUSTRIAL, ETC.)
11. DETECTABLE WARNING SURFACES:
    - 11.1. SIDEWALK SHALL HAVE A DETECTABLE WARNING SURFACE WHERE:
      - 11.1.1. SIDEWALK INTERSECTS TYPE C DRIVEWAYS (COMMERCIAL DRIVEWAYS) THAT ARE STOP, YIELD OR TRAFFIC SIGNAL CONTROLLED; OR
      - 11.1.2. SIDEWALK SLOPE IS GREATER THAN 1:20 AND INTERSECTS A TYPE C DRIVEWAY (COMMERCIAL DRIVEWAY)
    - 11.2. DETECTABLE WARNING SURFACES ARE OPTIONAL WHERE SIDEWALKS INTERSECT TYPE A DRIVEWAYS (SINGLE FAMILY RESIDENTIAL HOUSES OR DUPLEXES) OR TYPE B DRIVEWAYS (SHARED ACCESS/SHARED DRIVEWAYS).
    - 11.3. REFER TO STANDARD DETAILS 02775–06 TO 02775–07 FOR DETECTABLE WARNING SURFACE STANDARDS.

NO.	DATE	REVISION	APP.

APPROVED BY:	APPROVED BY:
Docusigned by: Suhail Kanwar 9EF8B0C6B1F5478...	Docusigned by: LONG NGUYEN 95A29E7DA7584CD...
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY: Docusigned by: Carl Stadlbeck A0DC4150072B3A3...	
DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV–27–2023	DWG NO: 02754–03

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

PROPOSED SIDEWALK THROUGH DRIVEWAY WITH EXCESSIVE ELEVATION DIFFERENCE

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SURVEYED BY: Kuo&Associates
FB NO. P–6382

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

STREET PAVING AND SIDEWALK STANDARD DETAILS

SHEET 5 OF 11

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CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 247 OF 369	

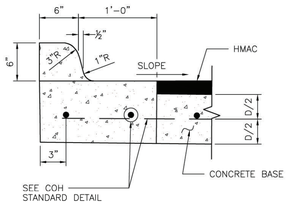
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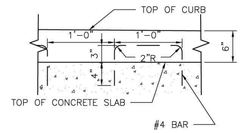
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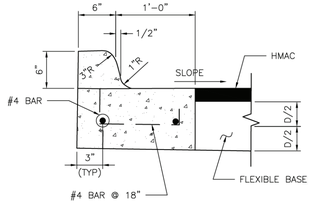
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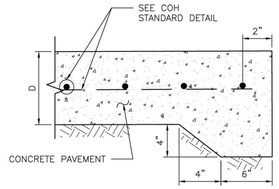
ESPLANADE CURB CONNECTED TO CONCRETE BASE



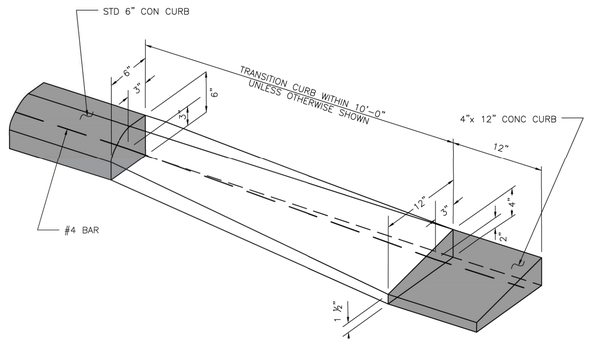
ALTERNATE CONCRETE CURB REINFORCEMENT



ESPLANADE CURB CONNECTED TO FLEXIBLE BASE

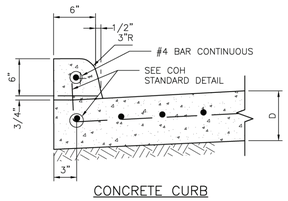


STANDARD CONCRETE PAVING HEADER

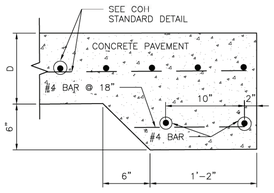


CURB TRANSITION

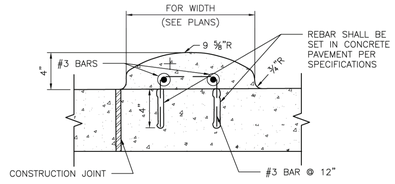
(SEE NOTES)



CONCRETE CURB

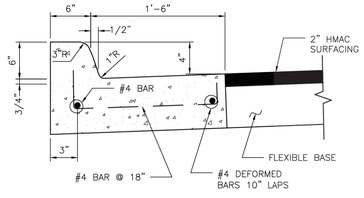


STANDARD RAILROAD HEADER

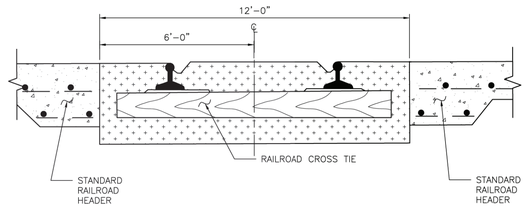


MOUNTABLE CURB

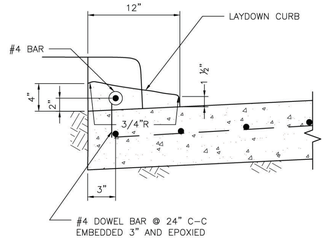
WHEN CONCRETE CURB IS TO BE PLACED EXISTING CONCRETE USE BASE #4 BAR @ 18x10" LONG, DOWELED AND SET IN EPOXY GROUT. SET #4 DOWEL BARS, 25" LONG AT 12" C-C WHEN PAVEMENT SECTION POURED.



MONOLITHIC CURB AND GUTTER

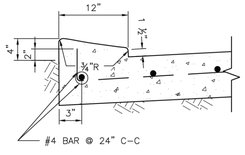


STANDARD RAILROAD CROSSING – SINGLE TRACK



4-INCH x 12-INCH TRANSITION CURB

(SEE NOTES)



4-INCH x 12-INCH MONOLITHIC CURB

(SEE NOTES)

4"x12" MONOLITHIC AND TRANSITION CURB NOTES:

1. 6-INCH CONCRETE CURB TO BE CONSTRUCTED ON ALL ESPLANADES, ISLANDS, NON-RESIDENTIAL STREETS, AND RESIDENTIAL STREETS.
2. TRANSITIONS FROM 6- INCH CONCRETE CURB TO 4-INCH x 12-INCH CONCRETE CURB TO BE ACCOMPLISHED WITHIN 10 FEET, UNLESS OTHERWISE SHOWN. IF THIS 10-FEET TRANSITION CURB IS NOT POURED MONOLITHICALLY WITH THE PAVEMENT, THEN REINFORCING STEEL AS SHOWN IN "4-INCH x 12-INCH TRANSITION CURB" IS TO BE INSTALLED.

NO.	DATE	REVISION	APP.

APPROVED BY:	APPROVED BY:
DocuSigned by: Sukut Kunwar 9EF8B0C841F5478...	DocuSigned by: KHANG NGUYEN 95A29EF3A7584CC...
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY: DocuSigned by: Carol Haddock 8DFA1F8F7FED4E3...	
DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV-27-2023	DWG NO: 02771-01

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

CURB, CURB AND GUTTER AND HEADER DETAILS

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TBPE Firm Reg. #4575

SURVEYED BY: Kuo&Associates
FB NO. P-6382

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

STREET PAVING AND SIDEWALK STANDARD DETAILS

SHEET 7 OF 11

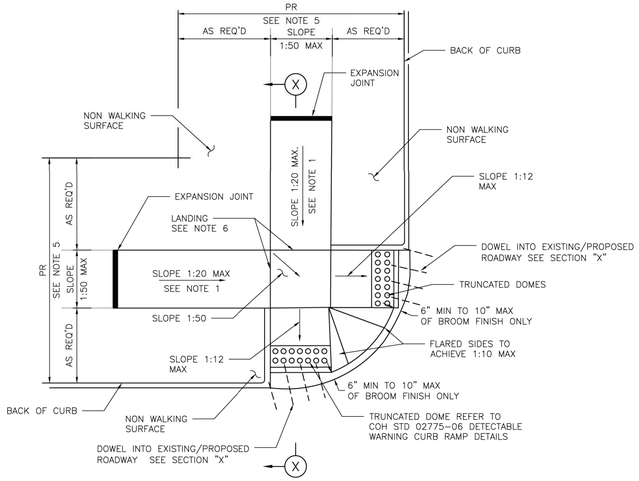
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ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 249 OF 369	

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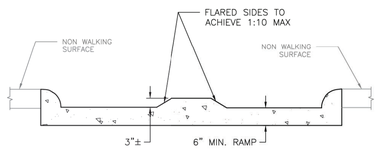
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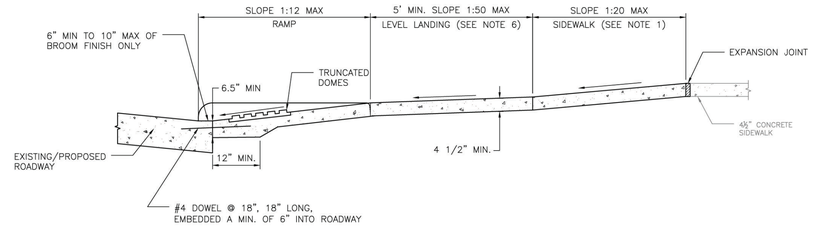
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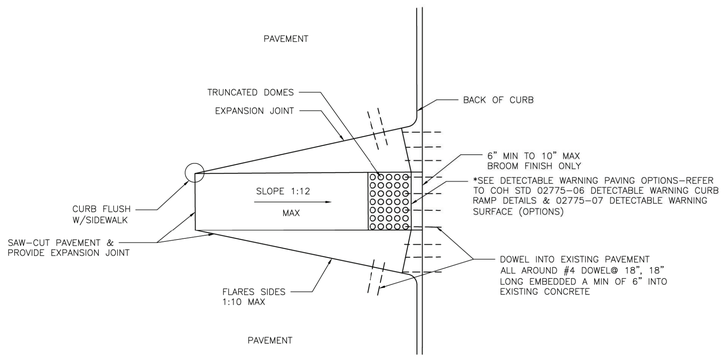
STREETS WITH NON– WALKING SURFACE BEHIND CURB
SEE NOTE–7



ELEVATION
LOOKING UP RAMP



SECTION X–X



CURB RAMP CONSTRUCTION FOR EXISTING PAVEMENT

NOTES:

1. REPLACE EXISTING SIDEWALK FROM LEVEL LANDING AS NECESSARY TO ACHIEVE 1:20 SLOPE
2. BROOM FINISH IS MEASURED FROM FACE OF CURB.
3. ALL RAMPS AND SIDEWALKS/WALKWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOUSTON PUBLIC WORKS STANDARDS, TEXAS ACCESSIBILITY STANDARDS (TAS) AND AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS. IF THERE IS A CONFLICT IN THE REQUIREMENTS, THE STRICTEST REQUIREMENTS SHALL GOVERN.
4. CURB RAMPS THAT ARE STEEPER THAN A 1:12 MAX SLOPE WILL NOT BE ACCEPTED BY THE CITY OF HOUSTON UNLESS NOTED OTHERWISE.
5. REFER TO CONTRACT DRAWINGS FOR PEDESTRIAN REALM (PR) WIDTH.
6. MINIMUM 5'x5' LANDING PAD ACCORDING TO ADA REQUIREMENTS. WHEN THE APPROACHING SIDEWALK IS WIDER THAN 5', THE LANDING PAD AND RAMP WIDTH MUST MATCH THE SIDEWALK WIDTH.
7. FOR STREETS WITH WALKABLE SURFACES IMMEDIATELY BEHIND THE CURB A FLARE IS REQUIRED ON BOTH SIDES OF THE RAMP.

NO.	DATE	REVISION	APP.

APPROVED BY:	APPROVED BY:
Docusigned by: Sukant Kanwar SEF1B0DC641F547B...	Docusigned by: HANG MAI KEN 55A29EF3A75B4CD...
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY: Docusigned by: Carl Haldock 4A0C47E2795D4E4...	
DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV–27–2023	DWG NO: 02775–02

CITY OF HOUSTON
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TYPICAL CURB RAMP DETAILS

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ENGINEER: RAHUL R MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P–6382

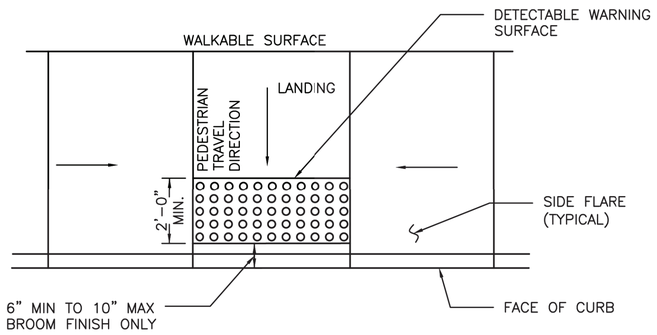
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ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

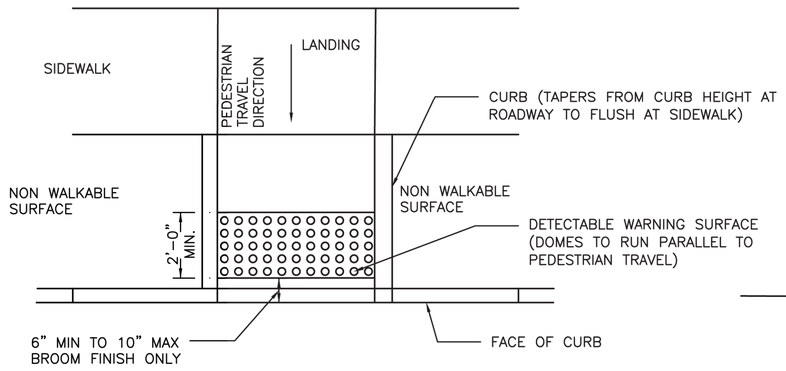
STREET PAVING AND SIDEWALK STANDARD DETAILS

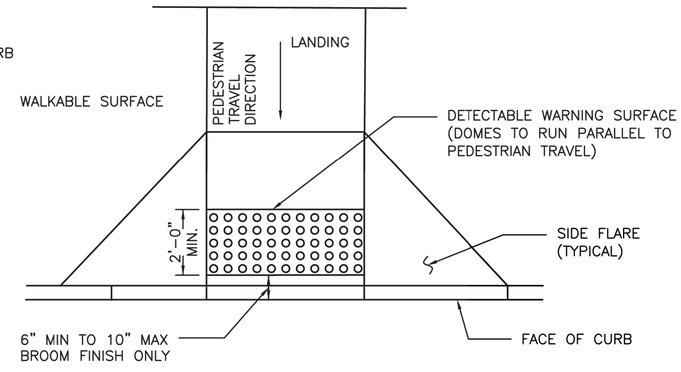
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TYPICAL PLACEMENT OF DETECTABLE WARNING SURFACE ON LANDING AT STREET EDGE





TYPICAL PLACEMENT OF DETECTABLE WARNING SURFACE ON SLOPING RAMP RUN

GENERAL NOTES FOR DETECTABLE WARNINGS:

1. DETECTABLE WARNING SURFACES MUST BE FULLY ADA COMPLIANT.
2. ALL NEW CURB RAMPS MUST CONTAIN A DETECTABLE WARNING SURFACE THAT CONSISTS OF RAISED TRUNCATED DOMES. THE SURFACE MUST CONTRAST VISUALLY WITH ADJOINING SURFACE, INCLUDING SIDE FLARES. FURNISH DARK BROWN OR DARK RED DETECTABLE WARNING SURFACE ADJACENT TO UNCOLORED CONCRETE, UNLESS SPECIFIED ELSEWHERE IN THE PLANS.
3. DETECTABLE WARNING SURFACES MUST MAINTAIN A SLIP RESISTANCE WITH FA–VALUE OF EQUAL TO OR GREATER THAN 0.8.
4. DETECTABLE WARNING SURFACES MUST MAINTAIN A WATER ABSORPTION RATE OF LESS THAN 1%, DETECTABLE WARNING SHALL NOT ALLOW WATER TO ACCUMULATE.
5. DETECTABLE WARNINGS INSTALLED INTO FRESH CONCRETE SHALL BE WITHOUT VOIDS AND UTILIZING AN ACCEPTABLE ANCHORING SYSTEM.
6. ALIGN TRUNCATED DOMES IN THE DIRECTION OF PEDESTRIAN TRAVEL WHEN ENTERING THE STREET.
7. DETECTABLE WARNING SURFACES SHALL BE A MINIMUM OF 24" IN DEPTH IN THE DIRECTION OF PEDESTRIAN TRAVEL, AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR LANDING WHERE THE PEDESTRIAN ACCESS ROUTE ENTERS THE STREET.
8. DETECTABLE WARNING SURFACES SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS 6" MIN TO 10" MAX FROM THE DETECTABLE WARNING SURFACES MAY BE CURVED ALONG THE CORNER RADIUS.
9. ALL RAMPS AND SIDEWALKS/WALKWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOUSTON PUBLIC WORKS STANDARDS, TEXAS ACCESSIBILITY STANDARDS (TAS) AND AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS. IF THERE IS A CONFLICT IN THE REQUIREMENTS, THE STRICTEST REQUIREMENTS SHALL GOVERN.
10. CURB RAMPS THAT ARE STEEPER THAN A 1:12 MAX SLOPE WILL NOT BE ACCEPTED BY THE CITY OF HOUSTON.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

DETECTABLE WARNING CURB RAMP DETAILS

(SCALE: NOT TO SCALE)

APPROVED BY:

DocuSigned by: Suhail Kanwar 9EF8B0C641F5478...
CITY ENGINEER

DocuSigned by: KHANG NGUYEN 95A29EFDA75B4CD...
CITY TRAFFIC ENGINEER

DocuSigned by: Carol Haddock A93C410B72B3453...
DIRECTOR OF HPW

EFF DATE: NOV–27–2023 | DWG NO: 02775–06

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

STREET PAVING AND SIDEWALK STANDARD DETAILS

SHEET 9 OF 11

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NO.	DATE	REVISION	APP.

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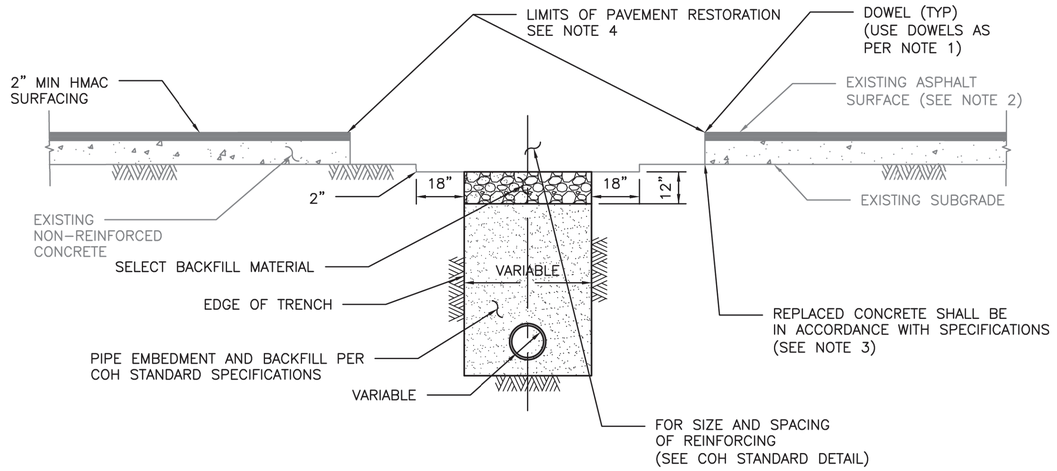
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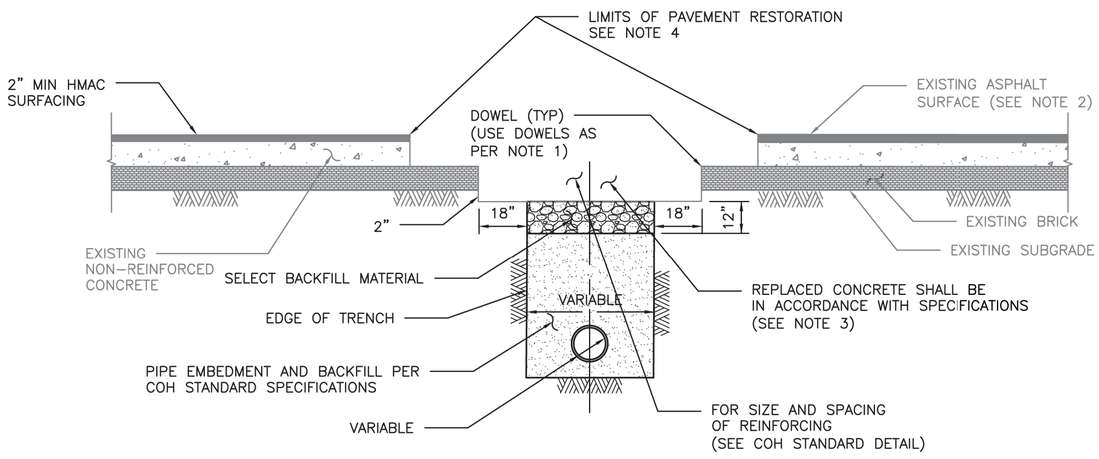
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ELEVATION C
REPAIR OF NON-REINFORCED CONCRETE PAVEMENT



ELEVATION D
REPAIR OF NON-REINFORCED CONCRETE PAVEMENT WITH BRICK

NOTES:

1. EXPOSE 15" OF REINFORCING STEEL AT PROPOSED SAWED JOINT. IF NO REINFORCING STEEL EXISTS, USE HORIZONTAL DOWELS. HORIZONTAL DOWELS SHALL BE #6 BAR, 24" LONG, 24" C-C, DRILLED AND EMBEDDED 8" INTO THE CENTER OF THE EXISTING SLAB. WITH "PO ROC" OR EQUAL.
2. IF REINFORCED CONCRETE IS OVERLAYED REPLACE WITH SAME THICKNESS OF HMAC SURFACING.
3. REFER TO STANDARD DETAIL 02751-01 FOR REINFORCING STEEL REQUIREMENT
4. REFER TO STANDARD DETAILS 02951-01 THROUGH 03 FOR PAVEMENT RESTORATION LIMITS.

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NO.	DATE	REVISION	APP.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

PAVEMENT REPAIR DETAIL
FOR STREET CUTS
(NON-REINFORCED CONCRETE & BRICK PAVEMENT)
(SCALE: NOT TO SCALE)

APPROVED BY:

DocuSigned by: Suhail Kanwar 9EF8B6C641F5478... CITY ENGINEER

DocuSigned by: Carol Haddock A93C410B72B3453... DIRECTOR OF HPW

DocuSigned by: KHANG NGUYEN 95A29EFDA75B4CD... CITY TRAFFIC ENGINEER

EFF DATE: NOV-27-2023 | DWG NO: 02951-05

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BIDDING OR CONSTRUCTION
ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P-6382

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

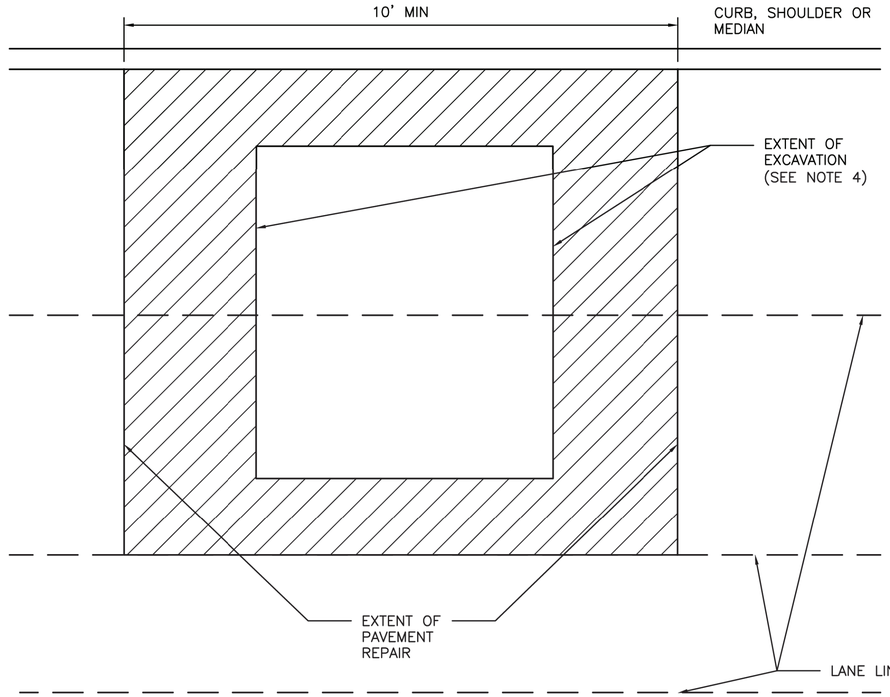
ALIEF FOREST SOUTH AREA
PAVING AND DRAINAGE
IMPROVEMENTS

STREET PAVING AND SIDEWALK
STANDARD DETAILS

SHEET 10 OF 11

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 252 OF 369	

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NOTES:

1. EXTENT OF PAVEMENT REPAIR SHALL BE PERPENDICULAR AND PARALLEL TO TRAVEL WAY.

2. FLEXIBLE BASE: REPLACE BASE TO SAME THICKNESS PLUS TWO INCHES (2") FOR EXTENT OF EXCAVATION. USE APPROVED BASE MATERIAL TYPE.*

3. SURFACE COURSE:

   3.1. WIDTH:
   SURFACE MILL AND OVERLAY FULL WIDTH OF LANE(S) TO NEAREST LANE DIVIDER BEYOND EDGE OF EXCAVATION.

   3.2. LENGTH:
   MINIMUM LENGTH OF SURFACE MILL ALONG TRAVEL WAY IS 10'.

   3.3. REPLACE PAVEMENT MARKINGS IN ACCORDANCE WITH CITY OF HOUSTON STANDARD SPECIFICATIONS 02764–RAISED PAVEMENT MARKERS AND 02767–THERMOPLASTIC PAVEMENT MARKINGS.

4. EXTENT OF EXCAVATION INCLUDES 18" OVER CUT AS SHOWN ON STANDARD DETAIL 02951–04 PAVEMENT REPAIR DETAIL FOR STREET CUTS (FLEX–BASE PAVEMENT AND CONCRETE PAVEMENT).

5. ADDITIONAL REQUIREMENTS FOR ASPHALT OVERLAY ON CONCRETE PAVEMENT:

   5.1. REPLACE CONCRETE FOR EXTENT OF EXCAVATION. REPLACE TO SAME THICKNESS PLUS TWO INCHES (2").

   5.2. WIDTH:

      5.2.1. IF EXCAVATION EXTENDS MORE THAN HALF OF A LANE, REPLACE ENTIRE LANE OF CONCRETE. OTHERWISE USE STANDARD DETAIL 02951–04 THROUGH 05.

   5.3. SAW CUT AND EXPOSE 15" OF REINFORCING STEEL AROUND EDGE OF CONCRETE REPLACEMENT. IF NO REINFORCING STEEL EXISTS, USE HORIZONTAL DOWELS PER CITY OF HOUSTON STANDARD SPECIFICATION SECTION 02951–PAVEMENT REPAIR AND RESTORATION.

   5.4. REPLACE CURB WHEN ADJACENT LANE IS REPLACED.

   5.5. MAINTAIN CONCRETE EXPANSION JOINTS AT EXISTING LOCATIONS UNLESS OTHERWISE APPROVED BY CITY ENGINEER.

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

STREET CUT FOR ASPHALT PAVEMENT REPLACEMENT/RESTORATION FOR PAVEMENT OF ALL AGES
(SCALE: NOT TO SCALE)

APPROVED BY:

DocuSigned by: Sukait Kanwar 9EF8B0C841F5478... CITY ENGINEER	DocuSigned by: Carol Haddock AB3C410B72B3453... DIRECTOR OF HPW
DocuSigned by: KHANG NGUYEN 95A29EFDA75B4CD... CITY TRAFFIC ENGINEER	
EFF DATE: NOV–27–2023	DWG NO: 02951–03

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ENGINEER: RAHUL B MENON, P.E
P.E.Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

STREET PAVING AND SIDEWALK STANDARD DETAILS

SHEET 11 OF 11

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SHEET NO. 253 OF 369	

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GENERAL NOTES

1. THE CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH PART VI OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) LATEST EDITION WITIH REVISIONS DURING THE ENTIRE CONSTRUCTION PERIOD.
2. ALL SIGNS AND TRAFFIC CONTROL DEVICES SHALL CONFORM THE LATEST VERSION OF THE TMUTCD.
3. NO LANES SHALL BE CLOSED DURING THE HOURS OF 7:00 AM TO 9:00 AM AND 4:00 PM TO 6:00 PM MONDAY THRU FRIDAY WITHOUT APPROVAL OF THE CITY TRAFFIC ENGINEER.
4. NO WORK SHALL BE PERFORMED IN RESIDENTIAL AREAS FROM 7:00 PM TO 7:00 AM.
5. CONTRACTOR SHALL MAINTAIN APPROVED NUMBER OF THROUGH LANES OF TRAFFIC IN EACH DIRECTION DURING CONSTRUCTION WORKING HOURS. TRAFFIC CONTROL PLANS SHALL INCLUDE ONE-WAY AND/OR DETOUR PLANS. CONTRACTOR SHALL MAINTAIN ADA COMPLIANT PEDESTRIAN ACCESS TO BUS STOPS AND ADEQUATE BUS ACCESS TO ALL THE BUS STOPS.
6. CONTRACTOR SHALL MAINTAIN TRAFFIC LANES AND DETOURS ACCORDING TO TRAFFIC CONTROL PLANS DURING WORKING HOURS.
7. CONTRACTOR SHALL COVER OPEN PAVEMENT EXCAVATIONS FOR MINOR UTILITY WORK WITH ANCHORED STEEL PLATES DURING NON-WORKING HOURS, AND OPEN LANES FOR NORMAL TRAFFIC FLOW WHEN FEASIBLE.
8. IF THE CONTRACTOR CHOOSES TO USE A DIFFERENT METHOD OF "TRAFFIC CONTROL PLANS" DURING THE CONSTRUCTION THAN WHAT IS OUTLINED IN THE CONTRACT DRAWINGS, THE CONTRACTOR SHALL BE RESPONSIBLE TO PREPARE AND SUBMIT AN ALTERNATE SET OF TRAFFIC CONTROL PLANS TO THE CITY OF HOUSTON PROJECT MANAGER FOR APPROVAL TEN WORKING DAYS PRIOR TO IMPLEMENTATION. THESE PLANS SHALL BE DRAWN TO SCALE ON REPRODUCIBLE MYLARS AND SHALL BE SEALED BY A LICENSED ENGINEER IN THE STATE OF TEXAS. OFFICE OF CITY ENGINEER, MOBILITY PERMITS SECTION REPRESENTATIVE APPROVAL IS REQUIRED TO ACCEPT THE PROPOSED CHANGES.
9. CONTRACTOR SHALL SECURE LANE/SIDEWALK/BICYCLE FACILITY CLOSURE PERMITS FROM OFFICE OF CITY ENGINEER (MOBILITY PERMIT SECTION AT https://gophub.houstontx.gov) BEFORE IMPLEMENTING THE TRAFFIC CONTROL PLAN. THE APPLICATION MUST BE SUBMITTED AT LEAST TEN DAYS PRIOR TO THE IMPLEMENTATION OF THE TRAFFIC CONTROL PLAN AND/OR BEGINNING CONSTRUCTION WORK. THE CONTRACTOR SHALL PROVIDE TRAFFIC CONTROL PLANS, CONSTRUCTION SEQUENCING, AND CONSTRUCTION SCHEDULE WITH THE APPLICATION.
10. CONTRACTOR SHALL HAVE APPROVED TRAFFIC CONTROL PLAN AND PERMIT AT THE JOB SITE FOR INSPECTION AT ALL TIMES.
11. DURING PAVEMENT SURFACE RESTORATION PROJECTS; THE CONTRACTOR SHALL NOT OPEN CLOSED LANES UNTIL THE PAVEMENT SURFACE HAS CURED ENOUGH TO ALLOW VEHICULAR TRAFFIC ACCORDING TO CITY OF HOUSTON STANDARD SPECIFICATIONS.
12. THE CONTRACTOR IS RESPONSIBLE FOR SCHEDULING AND COORDINATING ALL CONSTRUCTION ACTIVITIES WITH STAKE HOLDERS IN THE VICINITY INCLUDING EMERGENCY RESPONSE AGENCIES SUCH AS HOUSTON POLICE DEPARTMENT, HOUSTON FIRE DEPARTMENT, AND METROPOLITAN TRANSIT AUTHORITY.
13. CONTRACTOR SHALL BE RESPONSIBLE FOR ISSUING ALL WORK DIRECTIVES TO ALL SUB-CONTRACTORS,, UTILITY COMPANIES, AND ALL OTHER ENTITIES PERFORMING CONSTRUCTION WORK ASSOCIATED WITH THE PROJECT.
14. NOTHING IN THESE NOTES OR PLANS SHALL RELIEVE THE CONTRACTOR OF THE RESPONSIBILITY FOR JOB SITE CONDITIONS DURING THE COURSE OF CONSTRUCTION OF THE PROJECT; INCLUDING SAFETY OF ALL MODES OF TRANSPORTATION, PERSONS, AND PROPERTY, AND THAT THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO WORKING HOURS.
15. THE OFFICE OF CITY ENGINEER (MOBILITY PERMITS GROUP) PER THE DIRECTION OF THE CITY TRAFFIC ENGINEER HAVE THE RIGHT TO DEMAND THE INSTALLATION OF ADDITIONAL TRAFFIC CONTROL DEVICES OR MODIFICATIONS OF THESE PLANS AND NOTES, AS DEEMED NECESSARY TO PROMOTE THE SAFE AND ORDERLY FLOW OF TRAFFIC, INCLUDING PEDESTRIANS AND BICYCLES, THROUGH THE CONSTRUCTION WORK ZONE. THE CONTRACTOR SHALL COMPLY WITH THESE ADDITIONAL REQUESTS OR MODIFICATIONS WITH DUE DILIGENCE.
16. ALL EXISTING TRAFFIC CONTROL SIGNS AND PAVEMENT MARKINGS SHALL BE MAINTAINED IN VISIBLE LOCATIONS DURING CONSTRUCTION UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM CITY OF HOUSTON PROJECT MANAGER. THE CONTRACTOR SHALL RESTORE OR REPLACE (AT THE DISCRETION OF THE CITY TRAFFIC ENGINEER) ANY PAVEMENT MARKING OR SIGNING DAMAGE DURING CONSTRUCTION OPERATIONS, INCLUDING RAISED PAVEMENT MARKERS (RPMS).
17. WHEN ENTERING OR LEAVING ROADWAYS CARRYING PUBLIC TRAFFIC, THE CONTRACTOR'S EQUIPMENT, WHETHER EMPTY OR LOADED SHALL IN ALL CASES YIELD TO PUBLIC TRAFFIC WITH THE ASSISTANCE OF CONTRACTOR PROVIDED CERTIFIED FLAGGER/PEACE OFFICER.
18. ACCESS TO DRIVEWAYS ADJACENT TO THE CONSTRUCTION WORK ZONE SHALL BE MAINTAINED AT ALL TIMES AS MUCH AS POSSIBLE. ADDITIONAL CONES AND/OR DELINEATORS MAY BE REQUIRED TO DELINEATE THE DRIVEWAY ACCESS ROUTE THROUGH THE CONSTRUCTION WORK ZONE. A MINIMUM OF ONE TRAVEL LANE SHALL BE MAINTAINED ACROSS THE DRIVEWAYS, UNLESS PRIOR WRITTEN APPROVAL IS OBTAINED FROM CITY OF HOUSTON PROJECT MANAGER.
19. SPILLAGE RESULTING FROM HAULING OPERATIONS ALONG OR ACROSS ANY PUBLIC TRAVELED WAY SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
20. THE CONTRACTOR SHALL SUBMIT AN APPLICATION FOR TEMPORARY PARKING RESTRICTIONS IF THERE ARE PARKING METERS LOCATED AT THE PROPOSED LANE CLOSURES FROM PARKING MANAGEMENT DIVISION (832-393-8690) AT LEAST TEN BUSINESS DAYS BEFORE IMPLEMENTATION OF LANE CLOSURES. IN ADDITION, TEMPORARY NO PARKING SIGNS SHALL BE POSTED 24 HOURS PRIOR TO COMMENCEMENT OF WORK.
21. ADDITIONAL OFF DUTY OFFICERS/FLAGGERS MAY BE REQUESTED TO DIRECT TRAFFIC WHEN LANES ARE BLOCKED AT THE DISCRETION OF THE CITY PROJECT MANAGER EVEN IF THEY ARE NOT SPECIFICALLY IDENTIFIED ON THE PROJECT PLANS.
22. THE CONTRACTOR SHALL REPLACE WITHIN 72 HOURS, ALL TRAFFIC SIGNAL LOOP DETECTORS DAMAGED DURING CONSTRUCTION.
23. IN GENERAL, A SOLAR POWERED FLASHING ARROW BOARD SHALL BE REQUIRED ON ALL MAJOR THOROUGHFARE LANES CLOSURES. EXCEPTIONS TO FLASHING ARROW BOARDS AND/OR IMPLEMENTATION ON RESIDENTIAL LANE CLOSURES SHALL BE APPROVED BY CITY TRAFFIC ENGINEER.
24. APPROVED TRAFFIC CONTROL PLAN SHALL BE IN PLACE BEFORE STARTING ANY EXCAVATION.
25. WATER FILLED BARRIERS CAN BE USED AS INSTRUCTED BY THE ENGINEER AND APPROVED BY THE CITY FOR PROJECTS WHERE SPACE IS LIMITED AND HEAVY EQUIPMENT TO PLACE CONCRETE BARRIERS IS NOT FEASIBLE. WATER FILLED BARRIERS SHALL NOT BE USED ON ROADWAYS WITH A POSTED SPEED LIMIT MORE THAN 45 MPH.
26. WATER FILLED BARRIERS MUST BE INSTALLED AND MAINTAINED PER THE MANUFACTURER'S REQUIREMENTS AND ROUTINELY INSPECTED FOR DEFECTS.
27. IF WATER FILLED BARRIER IS PROVIDED, USE ENVIRONMENTALLY SAFE ANTI-FREEZING AGENT IN THE WATER WHEN IT IS APPLICABLE PER MANUFACTURER SPECIFICATIONS AND RECOVER AGENT WHEN THE BARRIER IS DRAINED.
28. DISPOSE OF WATER AND AGENT PROPERLY. DO NOT DRAIN WATER FILLED BARRIER INTO OR ACROSS AN EXISTING TRAVEL LANE.
29. PROVIDE BARRIER UNITS THAT ARE CAPABLE OF BEING LIFTED AND MOVED WHEN FILLED IF DRAINING IS NOT POSSIBLE.
30. PROVIDE WATER FILLED BARRIER THAT ACTS AS ITS OWN FREE STANDING, NON-REDIRECTIVE END TREATMENT.
31. WHEN WATER FILLED BARRIERS ARE USED TO CHANNELIZE PEDESTRIANS, THEY MUST HAVE A CONTINUOUS DETECTABLE BOTTOM FOR USERS OF LONG CANES AND THE TOP OF THE UNIT SHALL NOT BE LESS THAN 32 INCHES IN HEIGHT.
32. ANY CLOSURE OF A PEDESTRIAN OR BICYCLE FACILITY SHALL REQUIRE THE SHORTEST DETOUR THAT MAINTAINS THE SAFETY OF PEDESTRIAN AND/OR BICYCLISTS.

SPACING FOR CHANNELIZING DEVICES

A. PLASTIC DRUMS ON MERGING TAPER @ 30' C – C WITH CHEVRON SIGN @ 60' C – C AND WARNING LIGHTS FOR OVERNIGHT CLOSURE.

B. PLASTIC DRUMS ON DOWNSTREAM TAPER @ 30' C – C (RETURN TAPER AND BARRICADE ARE OPTIONAL AND DIVIDED ROADWAY SECTION)

C. PLASTIC DRUMS ON RADII @ 35' C –C.

D. PLASTIC DRUMS ON TANGENT @ 35' C – C WITH VERTICAL PANEL AT 70' C – C AND APPROVED WARNING LIGHT @ 70' C – C (FOR OVERNIGHT CLOSURE).

E. PLASTIC DRUMS IN FRONT OF CONSTRUCTION ZONE @ 20' C – C WITH VERTICAL PANEL AT 40' C – C AND APPROVED WARNING LIGHT @ 40' C – C (FOR OVERNIGHT CLOSURE).

F. CONCRETE TRAFFIC BARRIER (CTB) OR LOW PROFILE CONCRETE TRAFFIC BARRIER (LPCTB) WITH APPROVED REFLECTORS @ 10' C – C IF PAVEMENT DROP IS GREATER THAN 1 FOOT.

G. PLASTIC DRUMS W/GUARD RAIL MOUNTED.

H. SELF- RIGHTING VERTICAL PANEL SPACING.
- 4 LANES TO 2 LANES UNDIVIDED ROADWAY SECTION @ 20' C – C.
- 4 LANES DIVIDED ROADWAY TO ONE SIDE TWO WAY ROADWAY @ 20' C – C.
- LEFT LANE AND RIGHT LANE STORAGE BAYS @ 15' C – C.

I. SPACING SHOWN ON TRAFFIC CONTROL SHALL SUPERSEDE THE ABOVE SPACING.

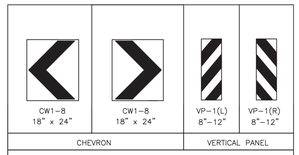
J. SPACING MAY BE ADJUSTED TO PROVIDE DRIVEWAYS, INTERSECTIONS AND /OR MEDIAN OPENINGS.

TABLE C3 – TYPICAL SIGN SPACING, TAPER LENGTHS, AND SUGGESTED SPACING OF CHANNELIZATION DEVICES

POSTED SPEED (MPH)	SIGN SPACING "X" (FEET)	MIN. DESIRABLE TAPER LENGTH "L"			SUGGESTED MAXIMUM SPACING OF DEVICE	
		10' OFFSET	11' OFFSET	12' OFFSET	ON A TAPER	ON A TANGENT
30	120'	150'	165'	180'	30'	60'–75'
35	160'	205'	225'	245'	35'	70'–90'
40	240'	265'	295'	320'	40'	80'–100'
45	320'	450'	495'	540'	45'	90'–110'
50	400'	500'	550'	600'	50'	100'–125'
55	500'	550'	605'	660'	55'	110'–140'

TABLE C4 – STOPPING SIGHT DISTANCE AS A FUNCTION OF SPEED

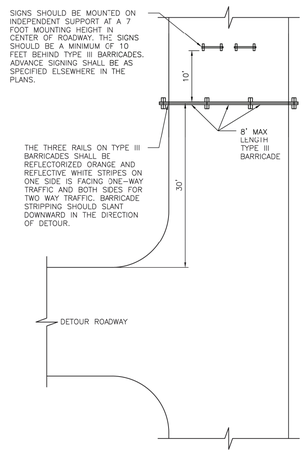
POSTED SPEED (MPH)	DISTANCE "D" (FEET)
30	200
35	250
40	305
45	360
50	425
55	495



CHANNELIZATION AND BARRICADES

LEGEND:

SIGN
FLAGGER
APPROVED CHANNELIZATION DEVICE
BARRICADE
FLASHING ARROW PANEL
AREA UNDER CONSTRUCTION
EXISTING TRAVEL WAY
TRAFFIC CONTROL PLAN DETOUR TRAVEL WAY



PLAN VIEW
TYPE III BARRICADE (POST AND SKID)
TYPICAL APPLICATION

APPROVED BY:	APPROVED BY:
Signed by: Sukut Kaunar	Signed by: Binh Nguyen
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY: Signed by: Carl Haldbrook	
DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV–27–2023	DWG NO: 01555–01

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

TCP NOTES CHANNELIZING DEVICES AND BARRICADES

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TRAFFIC CONTROL PLAN GENERAL NOTES:

1. PLACE ADVANCE WARNING SIGNS ALONG THE PROJECT AREA DURING CONSTRUCTION FOR ALL PHASES/STEPS.
2. PLACE DETOUR SIGNS ALONG THE PROJECT AREA WHERE APPLICABLE AND/OR AS SHOWN ON PLANS.
3. RESTORE TRAFFIC TO NEW CONSTRUCTED PAVEMENT BY PROCEEDING THROUGH THE CONSTRUCTION PROCESS ONE BLOCK AT A TIME.
4. MAINTAIN THE CONSTRUCTION ZONE SPEED LIMIT OF 30 MPH.
5. MAINTAIN ACCESS TO ALL DRIVEWAYS AT ALL TIMES DURING CONSTRUCTION. LOW PROFILE CONCRETE BARRIERS (LPCB) SHOULD NOT BLOCK THE DRIVEWAY ACCESS DURING CONSTRUCTION.
6. AVOID EXISTING DRIVEWAYS WHILE PLACING THE TRAFFIC CONTROL SIGNS.
7. CONTRACTOR SHOULD CONSTRUCT THE UNDERGROUND UTILITIES AND TEMPORARY ASPHALT PAVEMENT PER THE TRAFFIC CONTROL PLAN ONE BLOCK AT A TIME AND MOVE TO NEXT BLOCK BY OPENING TWO WAY TRAFFIC PAVEMENT IN PREVIOUS BLOCK WORKED. CONTRACTOR TO RESTORE TRAFFIC ON CROSS STREETS AS SOON AS CONSTRUCTION IS COMPLETED ACROSS INTERSECTION.
8. CONTRACTOR SHALL INSTALL LPCB AT STORM SEWER WORK LOCATIONS. LOW PROFILE CONCRETE BARRIER TO REMAIN AT LOCATIONS WHERE ELEVATION DIFFERENCE BETWEEN THE DRIVING SURFACE AND WORK AREA EXCEEDS 18 INCHES. THE TRAFFIC WILL BE SEPARATED BY LPCB WHERE AN ELEVATION DIFFERENCE IN THE EXISTING AND PROPOSED PAVEMENTS EXISTS.
9. PROPOSED DRAINAGE SYSTEM INCLUDES STORM SEWER TRUNK LINE, LATERALS, JUNCTION BOXES, MANHOLES AND INLETS.
10. PROPOSED CONCRETE PAVEMENT INCLUDES THE CURBS, PAVEMENT, SIDEWALK (IF ANY) AND THE DRIVEWAYS.
11. SEE ROADWAY PLAN AND PROFILE DRAWINGS FOR EXACT WIDTH OF THE PAVEMENT.
12. SEE ROADWAY PLAN AND PROFILE DRAWINGS FOR LIMITS OF PROPOSED CONCRETE PAVEMENT.
13. CONTRACTOR SHALL NOT CLOSE ANY TWO (2) CONSECUTIVE CROSS STREETS SIMULTANEOUSLY.
14. CONTRACTOR SHALL MAINTAIN ACCESS TO DRIVEWAYS AT ALL TIMES DURING CONSTRUCTION. "ONE WAY" SIGNS SHALL BE PLACED AT ALL DRIVEWAYS BY CONTRACTOR APPROPRIATELY. CONTRACTOR TO NOTIFY RESIDENTS 48 HOUR IN ADVANCE IF THEIR DRIVEWAY IS NOT ACCESSIBLE FOR ANY REASON DURING CONSTRUCTION.
15. CONTRACTOR SHALL INSTALL LPCB ONLY FOR THE LENGTH OF THE CONSTRUCTION ZONE. CONTRACTOR SHALL NOT BLOCK THE ENTIRE LENGTH OF THE PROJECT DURING CONSTRUCTION.
16. CONTRACTOR SHALL USE HIGH EARLY STRENGTH CONCRETE FOR ALL INTERSECTIONS.
17. USE "TYPICAL ONE LANE ROAD CLOSURE" DETAIL FROM STANDARDS FOR FLAGGING OPERATION FOR APPLICABLE PHASES/STEPS.
18. ALL ADVANCED WARNING SIGNS TO BE PLACED PER THE TEXAS MUTCD LATEST VERSION.
19. CONTRACTOR TO PROVIDE TEMPORARY TIE IN TO THE EXISTING STORM SEWER SYSTEM WHILE DOING INTERSECTIONS.

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P–6382

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

TRAFFIC CONTROL PLANS
GENERAL NOTES,
NOTES CHANNELIZING DEVICES
TCP SHEET: 1 AND BARRICADES

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TCP NARRATIVE:

FOR ALL PHASES AND STEPS:

1. PLACE CONSTRUCTION ADVANCED WARNING SIGNS, DRUMS, LPCB, CHEVRON, BARRICADES, AND SIGNS PER TMUTCD AND CITY OF HOUSTON TRAFFIC CONTROL STANDARDS 01512-01 THROUGH 01512-12.
2. PLACE FILTER FABRIC FENCING, INLET PROTECTION BARRIERS, AND OTHER SWPPP MEASURES AS NEEDED.
3. MAINTAIN ACCESS TO ALL DRIVEWAYS.
4. CONSTRUCT PROPOSED STORM SEWER FROM DOWNSTREAM (OUTFALL) TO UPSTREAM.
5. TEMPORARY DRAINAGE TO BE PROVIDED IF THERE IS ANY IMPACT TO THE EXISTING DRAINAGE SYSTEM.
6. CONTRACTOR TO KEEP EXISTING SANITARY SYSTEM IN SERVICE DURING THE CONSTRUCTION OF ALL UTILITIES.
7. DETENTION PONDS INCLUDING INFLOW/OUTFLOW PIPES TO BE CONSTRUCTED BEFORE STORM SEWER CONSTRUCTION.

PHASE 0

CONSTRUCT THE FOLLOWING DURING THIS STEP

- CONSTRUCT PROPOSED DETENTION POND 1
- CONSTRUCT PROPOSED DETENTION POND 2

PHASE 1 (STEPS 1 TO 9)

STEP 1: (CONSTRUCTION WATERLINE SHOWN ON PLANS EXCEPT SIX (6) CONNECTIONS ALONG SOUTH KIRKWOOD ROAD AND ONE (1) CONNECTION AT BEECHNUT STREET/RIPTIDE DRIVE INTERSECTION)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- THE PROPOSED WATERLINE SHOWN ON PLANS, PIPE SIZE VARIES

STEP 2: (CONSTRUCTION WATERLINE CONNECTION AT SOUTH KIRKWOOD ROAD/CORONA LANE INTERSECTION)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- THE PROPOSED WATERLINE AND CONNECTION SHOWN ON PLANS

STEP 3: (CONSTRUCTION WATERLINE CONNECTION AT SOUTH KIRKWOOD ROAD/SEA SHORE DRIVE INTERSECTION)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- THE PROPOSED WATERLINE AND CONNECTION SHOWN ON PLANS

STEP 4: (CONSTRUCTION WATERLINE CONNECTION AT SOUTH KIRKWOOD ROAD/POMPANO LANE INTERSECTION)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- THE PROPOSED WATERLINE AND CONNECTION SHOWN ON PLANS

STEP 5: (CONSTRUCTION WATERLINE CONNECTION AT SOUTH KIRKWOOD ROAD/SHARPCREST STREET INTERSECTION)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- THE PROPOSED WATERLINE AND CONNECTION SHOWN ON PLANS

STEP 6: (CONSTRUCTION WATERLINE CONNECTION AT SOUTH KIRKWOOD ROAD/HENDON LANE INTERSECTION)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- THE PROPOSED WATERLINE AND CONNECTION SHOWN ON PLANS

STEP 7: (CONSTRUCTION WATERLINE CONNECTION AT SOUTH KIRKWOOD ROAD/LANGDON LANE INTERSECTION)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- THE PROPOSED WATERLINE AND CONNECTION SHOWN ON PLANS

STEP 8: (CONSTRUCTION WATERLINE CONNECTION AT BEECHNUT STREET/RIPTIDE DRIVE INTERSECTION)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- THE PROPOSED WATERLINE AND CONNECTION SHOWN ON PLANS

PHASE 2 (STEPS 1 TO 22)

STEP 1: (CONSTRUCTION STORM SEWER ALONG RIPTIDE DRIVE FROM OUTFALL TO SELA LANE)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED STORM SEWER (42-INCH RCP)
- CONSTRUCT TEMPORARY ASPHALT PAVEMENT AS NEEDED AFTER THE STORM CONSTRUCTION IN THIS STEP
- MAINTAIN ACCESS TO ALL DRIVEWAYS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG SELA LANE AND RIPTIDE DRIVE AT ALL TIMES.

STEP 2: (CONSTRUCTION STORM SEWER ALONG SELA LANE FROM RIPTIDE DRIVE TO SELA LANE STA 18+25)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED STORM SEWER (24-INCH RCP), MANHOLES AND INLETS
- CONSTRUCT TEMPORARY ASPHALT PAVEMENT AS NEEDED AFTER THE STORM CONSTRUCTION IN THIS STEP
- MAINTAIN ACCESS TO ALL DRIVEWAYS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG SELA LANE AND RIPTIDE DRIVE AT ALL TIMES.

STEP 3: (CONSTRUCTION STORM SEWER AT INTERSECTION OF SELA LANE AND RIPTIDE DRIVE)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED STORM SEWER (24-INCH RCP), MANHOLES, AND INLETS
- CONSTRUCT TEMPORARY ASPHALT PAVEMENT AFTER THE STORM CONSTRUCTION IN THIS STEP
- MAINTAIN ACCESS TO ALL DRIVEWAYS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG SELA LANE AND RIPTIDE DRIVE AT ALL TIMES

STEP 4: (CONSTRUCTION STORM SEWER AT INTERSECTION OF CORONA LANE AND RIPTIDE DRIVE AND ALONG CORONA LANE FROM RIPTIDE TO STA 3+00)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED STORM SEWER (24-INCH AND 48-INCH RCP), MANHOLES, AND INLETS
- CONSTRUCT TEMPORARY ASPHALT PAVEMENT AFTER THE STORM CONSTRUCTION IN THIS STEP
- MAINTAIN ACCESS TO ALL DRIVEWAYS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG CORONA LANE AND RIPTIDE DRIVE AT ALL TIMES

STEP 5: (CONSTRUCTION SOUTHBOUND LANES OF SOUTH KIRKWOOD ROAD INCLUDING STORM SEWER FROM CORONA LANE TO SEA SHORE DRIVE)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED STORM SEWER (2-60-INCH RCP), JUNCTION BOXES, AND INLETS
- INTERSECTIONS TO BE CONSTRUCTED WITH HIGH EARLY STRENGTH CONCRETE
- PAVEMENT REPAIR IN STORM SEWER & WATERLINE CONSTRUCTION AREA

STEP 6: (CONSTRUCTION WESTBOUND OF CORONA FROM SOUTH KIRKWOOD ROAD TO SELA LANE)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED STORM SEWER (4'x4' RCB), JUNCTION BOXES, AND INLETS
- MAINTAIN ACCESS TO ALL DRIVEWAYS
- CONSTRUCT TEMPORARY ASPHALT PAVEMENT AS NEEDED AFTER THE STORM CONSTRUCTION IN THIS STEP
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG SELA LANE AT ALL TIMES

STEP 7: (CONSTRUCTION ALONG SOUTHBOUND LANES OF SOUTH KIRKWOOD ROAD FROM SEA SHORE DRIVE TO POMPANO LANE)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED STORM SEWER (2-48-INCH RCP), AND JUNCTION BOXES
- INTERSECTIONS TO BE CONSTRUCTED WITH HIGH EARLY STRENGTH CONCRETE
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG POMPANO LANE AND SEA SHORE LANE AT ALL TIMES
- REPLACE CONCRETE PAVEMENT AFTER STORM SEWER IS CONSTRUCTED AND WATERLINE INSTALLATION IS COMPLETED

STEP 8: (CONSTRUCTION ALONG SOUTHBOUND LANES OF SOUTH KIRKWOOD ROAD FROM POMPANO LANE TO SHARPCREST STREET)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED STORM SEWER (2-48-INCH RCP), AND JUNCTION BOXES
- INTERSECTIONS TO BE CONSTRUCTED WITH HIGH EARLY STRENGTH CONCRETE
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG POMPANO LANE AND SHARPCREST STREET AT ALL TIMES
- REPLACE CONCRETE PAVEMENT AFTER STORM SEWER IS CONSTRUCTED AND WATERLINE INSTALLATION IS COMPLETED

STEP 9: (CONSTRUCTION ALONG SOUTHBOUND LANES OF SOUTH KIRKWOOD ROAD FROM SHARPCREST STREET TO HENDON LANE)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED STORM SEWER (2-48-INCH RCP), AND JUNCTION BOXES
- INTERSECTIONS TO BE CONSTRUCTED WITH HIGH EARLY STRENGTH CONCRETE
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG SHARPCREST STREET AND HENDON LANE AT ALL TIMES
- REPLACE CONCRETE PAVEMENT AFTER STORM SEWER IS CONSTRUCTED AND WATERLINE INSTALLATION IS COMPLETED

STEP 10: (CONSTRUCTION ALONG WESTBOUND LANE OF SEA SHORE DRIVE FROM SOUTH KIRKWOOD ROAD TO RIPTIDE DRIVE)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED STORM SEWER (4'x4' RCB), JUNCTION BOXES, LATERALS AND INLETS
- CONSTRUCT TEMPORARY ASPHALT PAVEMENT AS NEEDED AFTER THE STORM CONSTRUCTION IN THIS STEP
- MAINTAIN ACCESS TO ALL DRIVEWAYS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG POMPANO LANE AT ALL TIMES

STEP 10.1: (CONSTRUCTION AT INTERSECTION OF SEA SHORE DRIVE AND RIPTIDE DRIVE)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED STORM SEWER LATERALS AND INLETS
- CONSTRUCT TEMPORARY ASPHALT PAVEMENT AS NEEDED AFTER THE STORM CONSTRUCTION IN THIS STEP
- MAINTAIN ACCESS TO ALL DRIVEWAYS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG POMPANO LANE AND RIPTIDE DRIVE AT ALL TIMES

STEP 11: (CONSTRUCTION ALONG WESTBOUND LANE OF POMPANO LANE FROM SOUTH KIRKWOOD ROAD TO RIPTIDE DRIVE)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED STORM SEWER (4'x4' RCB), JUNCTION BOXES, LATERALS AND INLETS
- CONSTRUCT TEMPORARY ASPHALT PAVEMENT AFTER THE STORM CONSTRUCTION IN THIS STEP
- MAINTAIN ACCESS TO ALL DRIVEWAYS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG POMPANO LANE AT ALL TIMES

STEP 12: (CONSTRUCTION ALONG NORTHBOUND LANE OF RIPTIDE DRIVE FROM POMPANO LANE TO JUST NORTH OF SHARPCREST STREET)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED STORM SEWER (48-INCH RCP), JUNCTION BOXES, MANHOLES AND INLETS
- CONSTRUCT TEMPORARY ASPHALT PAVEMENT AFTER THE STORM CONSTRUCTION IN THIS STEP
- MAINTAIN ACCESS TO ALL DRIVEWAYS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG RIPTIDE DRIVE, POMPANO LANE AND SHARPCREST STREET AT ALL TIMES

STEP 13: (CONSTRUCTION ALONG WESTBOUND LANE OF SHARPCREST STREET FROM RIPTIDE DRIVE TO PROPOSED POND 1 OUTFLOW PIPE)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED STORM SEWER (30-INCH RCP), MANHOLES, AND INLETS
- CONSTRUCT TEMPORARY ASPHALT PAVEMENT AFTER THE STORM CONSTRUCTION IN THIS STEP
- MAINTAIN ACCESS TO ALL DRIVEWAYS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG RIPTIDE DRIVE AND SHARPCREST STREET AT ALL TIMES

STEP 14: (CONSTRUCTION ALONG NORTHBOUND LANE OF RIPTIDE DRIVE FROM SHARPCREST STREET TO HENDON LANE)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED STORM SEWER (48-INCH RCP), AND MANHOLES
- SANITARY SEWER (8-INCH PIPE) TO BE INSTALLED BEFORE STORM SEWER AT INTERSECTION OF RIPTIDE DRIVE AND HENDON LANE)
- MAINTAIN ACCESS TO ALL DRIVEWAYS
- CONSTRUCT TEMPORARY ASPHALT PAVEMENT AFTER THE STORM CONSTRUCTION IN THIS STEP
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG RIPTIDE DRIVE, SHARPCREST STREET AND HENDON LANE AT ALL TIMES

STEP 15: (CONSTRUCTION ALONG HENDON LANE FROM RIPTIDE DRIVE TO SOUTH KIRKWOOD ROAD)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED SANITARY SEWER (8-INCH PIPE), MANHOLES, AND SERVICE LINES
- PROPOSED STORM SEWER (48-INCH RCP), MANHOLES, LATERALS AND INLETS
- WESTBOUND OF PROPOSED PAVEMENT (13-FEET) AND SIDEWALKS
- EASTBOUND OF PROPOSED PAVEMENT (13-FEET) AND SIDEWALKS
- MAINTAIN ACCESS TO ALL DRIVEWAYS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG HENDON LANE AT ALL TIMES

STEP 16: (CONSTRUCTION ALONG LANGDON LANE FROM HENDON LANE TO SOUTH KIRKWOOD ROAD)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED SANITARY SEWER (8-INCH PIPE), MANHOLES, AND SERVICE LINES
- PROPOSED STORM SEWER (24-INCH RCP), MANHOLES, LATERALS AND INLETS
- WESTBOUND OF PROPOSED PAVEMENT (13-FEET) AND SIDEWALKS
- EASTBOUND OF PROPOSED PAVEMENT (13-FEET) AND SIDEWALKS
- MAINTAIN ACCESS TO ALL DRIVEWAYS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG LANGDON LANE AT ALL TIMES

STEP 17: (CONSTRUCTION ALONG AQUA LANE FROM LANGDON LANE TO SOUTH END OF AQUA LANE)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED SANITARY SEWER (8-INCH PIPE), MANHOLES, AND SERVICE LINES
- PROPOSED STORM SEWER (24-INCH RCP) AND INLETS
- PROPOSED PAVEMENT AND SIDEWALKS
- MAINTAIN ACCESS TO ALL DRIVEWAYS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG AQUA LANE AT ALL TIMES

STEP 18: (CONSTRUCTION AT SHINER LANE FROM LANGDON LANE TO SOUTH END OF SHINER LANE)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED SANITARY SEWER (8-INCH PIPE), MANHOLES, AND SERVICE LINES
- PROPOSED STORM SEWER (24-INCH RCP) AND INLETS
- PROPOSED PAVEMENT AND SIDEWALKS
- MAINTAIN ACCESS TO ALL DRIVEWAYS
- KEEP AT LEAST ONE LANE OPEN TO LOCAL TRAFFIC ALONG SHINER LANE AT ALL TIMES

STEP 19: (CONSTRUCTION ALONG WHITE CAP LANE AND RIPTIDE DRIVE INTERSECTION)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED SANITARY SEWER (8-INCH PIPE), MANHOLES, AND SERVICE LINES
- PROPOSED STORM SEWER (24-INCH RCP) AND INLETS
- CONSTRUCT TEMPORARY ASPHALT PAVEMENT AFTER THE STORM CONSTRUCTION IN THIS STEP
- MAINTAIN ACCESS TO ALL DRIVEWAYS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG RIPTIDE DRIVE AT ALL TIMES

STEP 20: (CONSTRUCTION ALONG WHITE CAP LANE FROM RIPTIDE DRIVE TO BEECHNUT STREET)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED SANITARY SEWER (8-INCH PIPE), MANHOLES, AND SERVICE LINES
- PROPOSED STORM SEWER (24-INCH RCP), MANHOLES AND INLETS
- PROPOSED PAVEMENT AND SIDEWALKS
- MAINTAIN ACCESS TO ALL DRIVEWAYS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG WHITE CAP LANE AT ALL TIMES

STEP 21: (CONSTRUCTION ALONG STARFISH LANE FROM WHITE CAP LANE TO SOUTH END OF STARFISH LANE)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED SANITARY SEWER (8-INCH PIPE), MANHOLES, AND SERVICE LINES
- PROPOSED PAVEMENT AND SIDEWALKS
- MAINTAIN ACCESS TO ALL DRIVEWAYS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG STARFISH LANE AT ALL TIMES

STEP 22: (CONSTRUCTION POND 2 INFLOW PIPE AT SOUTH KIRKWOOD ROAD AND POMPANO INTERSECTION)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED STORM SEWER (48-INCH RCP), AND MANHOLES
- PAVEMENT REPAIR FOR STORM SEWER CONSTRUCTION

NO.	DATE	REVISION	APP.

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DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

TRAFFIC CONTROL PLANS
PHASING NARRATIVE
SHEET 1 OF 2

TCP SHEET: 2

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 255 OF 369	

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PHASE 3 (STEPS 1 TO 7)

STEP 1:(CONSTRUCTION ALONG EASTBOUND LANE OF CORONA LANE FROM COOK ROAD TO BEECH COVE LANE)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED STORM SEWER (24-INCH RCP), MANHOLES, AND INLETS
- CONSTRUCT TEMPORARY ASPHALT PAVEMENT AS NEEDED AFTER THE STORM CONSTRUCTION IN THIS STEP
- MAINTAIN ACCESS TO ALL DRIVEWAYS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG CORONA LANE AT ALL TIMES

STEP 2:(CONSTRUCTION ALONG SOUTHBOUND LANE OF BEECH COVE LANE FROM CORONA LANE TO SEA SHORE DRIVE)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED STORM SEWER (2-6'x4' RCB), JUNCTION BOX, MANHOLES, AND INLETS
- CONSTRUCT TEMPORARY ASPHALT PAVEMENT AFTER THE STORM CONSTRUCTION IN THIS STEP
- MAINTAIN ACCESS TO ALL DRIVEWAYS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG BEECH COVE LANE AT ALL TIMES

STEP 3:(CONSTRUCTION ALONG SOUTHBOUND LANE OF BEECH COVE LANE FROM SEA SHORE DRIVE TO POMPANO LANE)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED STORM SEWER (2-6'x4' RCB), JUNCTION BOX, MANHOLES, AND INLETS
- CONSTRUCT TEMPORARY ASPHALT PAVEMENT AFTER THE STORM CONSTRUCTION IN THIS STEP
- MAINTAIN ACCESS TO ALL DRIVEWAYS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG BEECH COVE LANE AT ALL TIMES

STEP 4:(CONSTRUCTION ALONG SOUTHBOUND LANE OF BEECH COVE LANE FROM POMPANO LANE TO UPSTREAM END AT BEECH COVE LANE STA. 1+10)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED STORM SEWER (2-6'x4' RCB), JUNCTION BOX
- CONSTRUCT TEMPORARY ASPHALT PAVEMENT AFTER THE STORM CONSTRUCTION IN THIS STEP
- MAINTAIN ACCESS TO ALL DRIVEWAYS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG BEECH COVE LANE AT ALL TIMES

STEP 5:(CONSTRUCTION ALONG SEA SHORE DRIVE FROM COOK ROAD TO BEECH COVE LANE)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED STORM SEWER (24-INCH RCP & 4'x4' RCB), JUNCTION BOX, MANHOLES, AND INLETS
- PROPOSED PAVEMENTS AND SIDEWALKS
- MAINTAIN ACCESS TO ALL DRIVEWAYS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG SEA SHORE DRIVE AT ALL TIMES

STEP 6:(CONSTRUCTION ALONG POMPANO LANE(NORTH-SOUTH) FROM SEA SHORE DRIVE TO POMPANO LANE(WEST-EAST))

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED STORM SEWER (24-INCH RCP), JUNCTION BOX, MANHOLES, AND INLETS
- PROPOSED PAVEMENT AND SIDEWALKS
- MAINTAIN ACCESS TO ALL DRIVEWAYS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG POMPANO LANE AT ALL TIMES

STEP 7:(CONSTRUCTION ALONG POMPANO LANE FROM POMPANO LANE(WEST-EAST) TO BEECH COVE LANE INCLUDING STREET KNUCKLE)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED STORM SEWER (4'x4' RCB), JUNCTION BOX, AND INLETS
- PROPOSED PAVEMENT AND SIDEWALKS
- MAINTAIN ACCESS TO ALL DRIVEWAYS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG POMPANO LANE AT ALL TIMES

PHASE 4 (STEPS 1 TO 5)

STEP 1:(CONSTRUCTION ALONG BEECH COVE LANE (SOUTH) FROM DETENTION POND 1 INFLOW PIPES TO WHITE CAP LANE)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED STORM SEWER (2-6'x3' RCB), JUNCTION BOX, AND INLETS
- PROPOSED PAVEMENT AND SIDEWALKS
- MAINTAIN ACCESS TO ALL DRIVEWAYS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG BEECH COVE LANE AT ALL TIMES

STEP 2(CONSTRUCTION ALONG NORTHBOUND LANE OF BEECH COVE LANE (SOUTH) FROM WHITE CAP LANE TO BEECHNUT STREET)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED STORM SEWER (5'x3' RCB & 36-INCH RCP), JUNCTION BOX, MANHOLES, AND INLETS
- PROPOSED PAVEMENTS AND SIDEWALKS
- MAINTAIN ACCESS TO ALL DRIVEWAYS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG BEECH COVE LANE AT ALL TIMES

STEP 3(CONSTRUCTION ALONG SOUTHBOUND LANE OF BEECH COVE LANE (SOUTH) FROM WHITE CAP LANE TO BEECHNUT STREET)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED PAVEMENT AND SIDEWALKS
- MAINTAIN ACCESS TO ALL DRIVEWAYS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG BEECH COVE LANE AT ALL TIMES

STEP 4:(CONSTRUCTION ALONG WESTBOUND LANE OF WHITE CAP LANE FROM COOK ROAD TO BEECH COVE LANE)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED STORM SEWER (5'x3' RCB), JUNCTION BOX, AND INLETS
- PROPOSED PAVEMENTS AND SIDEWALKS
- MAINTAIN ACCESS TO ALL DRIVEWAYS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG WHITE CAP LANE AT ALL TIMES

STEP 5:(CONSTRUCTION ALONG EASTBOUND LANE OF WHITE CAP LANE FROM COOK ROAD TO BEECH COVE LANE)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED STORM SEWERS, AND INLETS
- PROPOSED PAVEMENT AND SIDEWALKS
- MAINTAIN ACCESS TO ALL DRIVEWAYS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC ALONG WHITE CAP LANE AT ALL TIMES

PHASE 5 (STEPS 1 TO 19)

STEP 1: (EASTBOUND LANE OF CORONA LANE(WEST))

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED PAVEMENT (13-FEET) AND SIDEWALKS
- HIGH EARLY STRENGTH CONCRETE PAVEMENT AT THE INTERSECTION
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC AT ALL TIMES

STEP 2: (WESTBOUND OF COROLA LANE(WEST))

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED INLETS AND LATERALS (24-INCH RCP)
- PROPOSED PAVEMENT (13-FEET) AND SIDEWALKS
- HIGH EARLY STRENGTH CONCRETE PAVEMENT AT THE INTERSECTION
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC AT ALL TIMES

STEP 3: (EASTBOUND LANE OF SELA LANE)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED PAVEMENT (13-FEET) AND SIDEWALKS
- HIGH EARLY STRENGTH CONCRETE PAVEMENT AT THE INTERSECTION
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC AT ALL TIMES

STEP 4: (WESTBOUND OF SELA LANE(WEST-EAST))

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED PAVEMENT (13-FEET) AND SIDEWALKS
- HIGH EARLY STRENGTH CONCRETE PAVEMENT AT THE INTERSECTION
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC AT ALL TIMES

STEP 5: (NORTHBOUND LANE OF RIPTIDE DRIVE(NORTH OF SELA LANE))

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED PAVEMENT (13-FEET) AND SIDEWALKS

STEP 5.1: (SOUTHBOUND LANE OF RIPTIDE DRIVE(NORTH OF SELA LANE))

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED PAVEMENT (13-FEET) AND SIDEWALKS

STEP 6: (NORTHBOUND LANE OF RIPTIDE DRIVE(BETWEEN SELA LANE & CORONA LANE) INCLUDING STREET KNUCKLE)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED PAVEMENT (13-FEET) AND SIDEWALKS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC AT ALL TIMES

STEP 6.1: (SOUTHBOUND LANE OF RIPTIDE DRIVE(BETWEEN SELA LANE & CORONA LANE) INCLUDING STREET KNUCKLE)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED PAVEMENT (13-FEET) AND SIDEWALKS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC AT ALL TIMES

STEP 7: (EASTBOUND OF CORONA LANE(EAST))

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED PAVEMENT (13-FEET) AND SIDEWALKS
- HIGH EARLY STRENGTH CONCRETE PAVEMENT AT THE INTERSECTION
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC AT ALL TIMES

STEP 8: (WESTBOUND OF CORONA LANE(EAST))

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED PAVEMENT (13-FEET) AND SIDEWALKS
- HIGH EARLY STRENGTH CONCRETE PAVEMENT AT THE INTERSECTION
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC AT ALL TIMES

STEP 9: (NORTHBOUND LANE OF RIPTIDE DRIVE(BETWEEN CORONA LANE & SEA SHORE DRIVE))

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED PAVEMENT (13-FEET) AND SIDEWALKS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC AT ALL TIMES

STEP 9.1: (SOUTHBOUND LANE OF RIPTIDE DRIVE(BETWEEN CORONA LANE & SEA SHORE DRIVE))

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED PAVEMENT (13-FEET) AND SIDEWALKS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC AT ALL TIMES

STEP 10: (EASTBOUND OF SEA SHORE DRIVE(EAST))

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED PAVEMENT (13-FEET) AND SIDEWALKS
- HIGH EARLY STRENGTH CONCRETE PAVEMENT AT THE INTERSECTION
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC AT ALL TIMES

STEP 11: (WESTBOUND OF SEA SHORE DRIVE(EAST))

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED PAVEMENT (13-FEET) AND SIDEWALKS
- HIGH EARLY STRENGTH CONCRETE PAVEMENT AT THE INTERSECTION
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC AT ALL TIMES

STEP 12: (EASTBOUND OF POMPANO LANE(EAST))

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED PAVEMENT (13-FEET) AND SIDEWALKS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC AT ALL TIMES

STEP 13: (WESTBOUND OF POMPANO(EAST))

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED PAVEMENT (13-FEET) AND SIDEWALKS
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC AT ALL TIMES

STEP 14: (EASTBOUND OF SHARPCREST STREET)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED INLETS AND LATERALS (24-INCH RCP)
- PROPOSED PAVEMENT (13-FEET) AND SIDEWALKS
- HIGH EARLY STRENGTH CONCRETE PAVEMENT AT THE INTERSECTION
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC AT ALL TIMES

STEP 15: (WESTBOUND OF SHARPCREST STREET)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED INLETS AND LATERALS (24-INCH RCP)
- PROPOSED PAVEMENT (13-FEET) AND SIDEWALKS
- HIGH EARLY STRENGTH CONCRETE PAVEMENT AT THE INTERSECTION
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC AT ALL TIMES

STEP 16: (SOUTHBOUND OF RIPTIDE DRIVE FROM SEA SHORE DRIVE TO BEECHNUT STREET)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED INLETS AND LATERALS (24-INCH RCP)
- PROPOSED PAVEMENT (13-FEET) AND SIDEWALKS
- HIGH EARLY STRENGTH CONCRETE PAVEMENT AT THE INTERSECTION
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC AT ALL TIMES

STEP 17: (NORTHBOUND OF RIPTIDE DRIVE FROM SEA SHORE DRIVE TO BEECHNUT STREET)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED PAVEMENT (13-FEET) AND SIDEWALKS
- HIGH EARLY STRENGTH CONCRETE PAVEMENT AT THE INTERSECTION
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC AT ALL TIMES

STEP 18: (NORTHBOUND OF BEECH COVE LANE FROM SELA LANE TO UPSTREAM END AT BEECH COVE STA 1+00)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED PAVEMENT (13-FEET) AND SIDEWALKS
- HIGH EARLY STRENGTH CONCRETE PAVEMENT AT THE INTERSECTION
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC AT ALL TIMES

STEP 19: (SOUTHBOUND OF BEECH COVE LANE FROM SELA LANE TO POMPANO LANE)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED INLETS AND LATERALS (24-INCH RCP)
- PROPOSED PAVEMENT (13-FEET) AND SIDEWALKS
- HIGH EARLY STRENGTH CONCRETE PAVEMENT AT THE INTERSECTION
- KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC AT ALL TIMES

STEP 19.1: (SOUTHBOUND OF BEECH COVE LANE FROM POMPANO LANE TO UPSTREAM END AT BEECH COVE STA 1+00)

CONSTRUCT THE FOLLOWING DURING THIS STEP

- PROPOSED PAVEMENT (13-FEET) AND SIDEWALKS
- HIGH EARLY STRENGTH CONCRETE PAVEMENT AT THE INTERSECTION

KEEP AT LEAST ONE LANE OPEN FOR LOCAL TRAFFIC AT ALL TIMES

NOTES:

1. PLEASE REFER TO TRAFFIC CONTROL PLAN STANDARDS FOR INTERSECTION CONSTRUCTION

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

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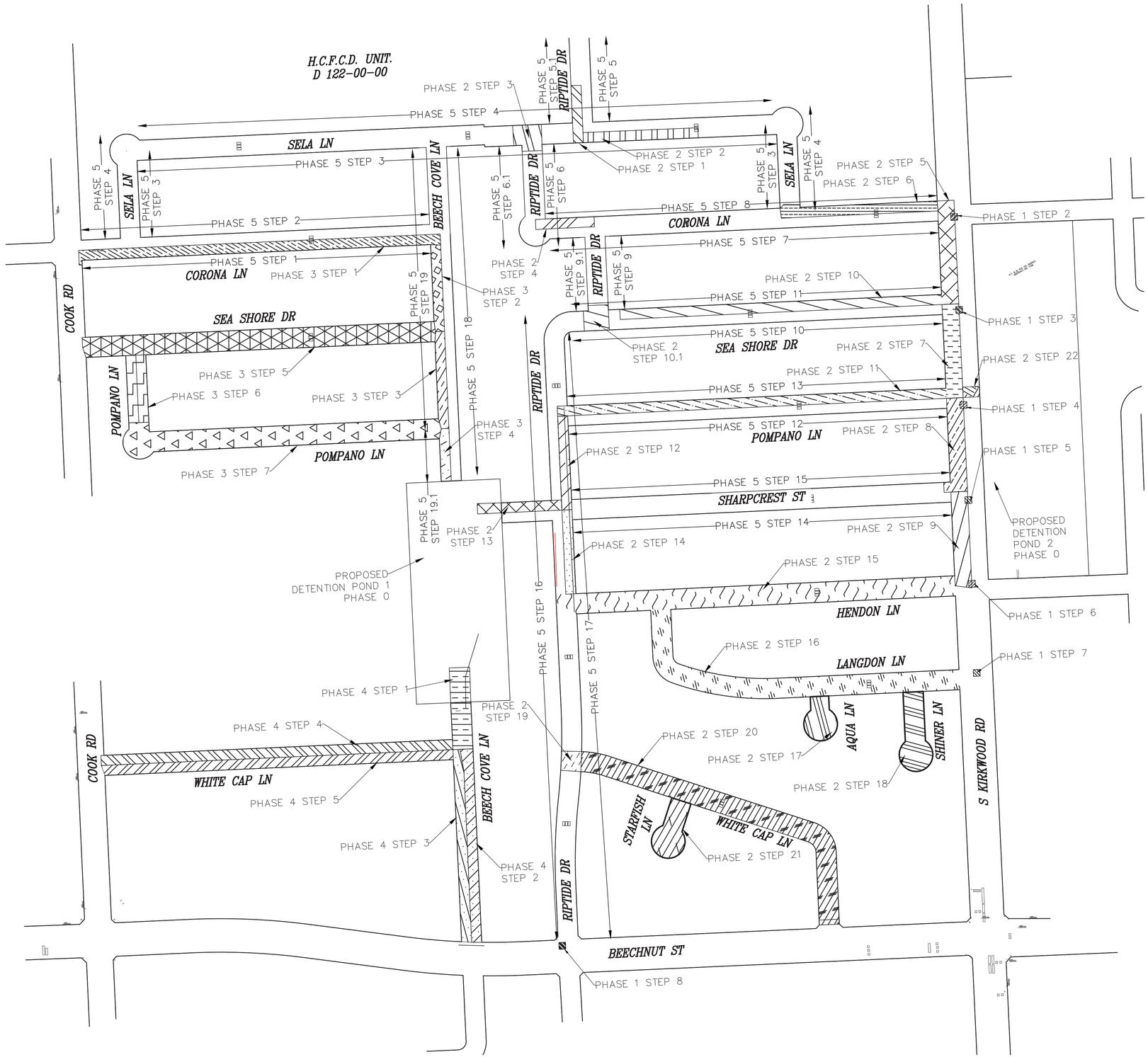
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

TRAFFIC CONTROL PLANS
PHASING NARRATIVE
SHEET 2 OF 2

TCP SHEET: 3

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 256 OF 369	

PLOTTED: 8/13/2026 5:00 PM
FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Narrative.dwg



PHASE 1 STEP 2
PHASE 1 STEP 3
PHASE 1 STEP 4
PHASE 1 STEP 5
PHASE 1 STEP 6
PHASE 1 STEP 7
PHASE 1 STEP 8

PHASE 2 STEP 1
PHASE 2 STEP 2
PHASE 2 STEP 3
PHASE 2 STEP 4
PHASE 2 STEP 5
PHASE 2 STEP 6
PHASE 2 STEP 7
PHASE 2 STEP 8
PHASE 2 STEP 9
PHASE 2 STEP 10
PHASE 2 STEP 11
PHASE 2 STEP 12
PHASE 2 STEP 13
PHASE 2 STEP 14
PHASE 2 STEP 15
PHASE 2 STEP 16
PHASE 2 STEP 17
PHASE 2 STEP 18
PHASE 2 STEP 19
PHASE 2 STEP 20
PHASE 2 STEP 21
PHASE 2 STEP 22

PHASE 3 STEP 1
PHASE 3 STEP 2
PHASE 3 STEP 3
PHASE 3 STEP 4
PHASE 3 STEP 5
PHASE 3 STEP 6
PHASE 3 STEP 7

PHASE 4 STEP 1
PHASE 4 STEP 2
PHASE 4 STEP 3
PHASE 4 STEP 4
PHASE 4 STEP 5

NOTES:

1. ACCESS TO EXISTING BUSINESS AND RESIDENCES SHALL BE MAINTAINED AT ALL TIMES.
2. INTERSECTIONS SHALL ALLOW AT LEAST ONE LANE OF TRAFFIC DURING CONSTRUCTION.
3. PHASE 5 CONSISTS OF ROADWAY IMPROVEMENTS; THE CALLOUT LOCATIONS REPRESENT THE SIDES OF IMPROVEMENT.
4. PAVEMENT CONSTRUCTION AT THE INTERSECTION SHOULD BE DONE USING HIGH EARLY STRENGTH CONCRETE.
5. FOR CONSTRUCTION SEQUENCE, PLEASE REFER TO PLANS, NARRATIVE AND COH TRAFFIC CONTROL STANDARDS.

N

160 0 80 160 320

SCALE: 1" = 160'-0" FEET FOR 22"X34" SHEET

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DATE: AUGUST 2026

CITY OF HOUSTON

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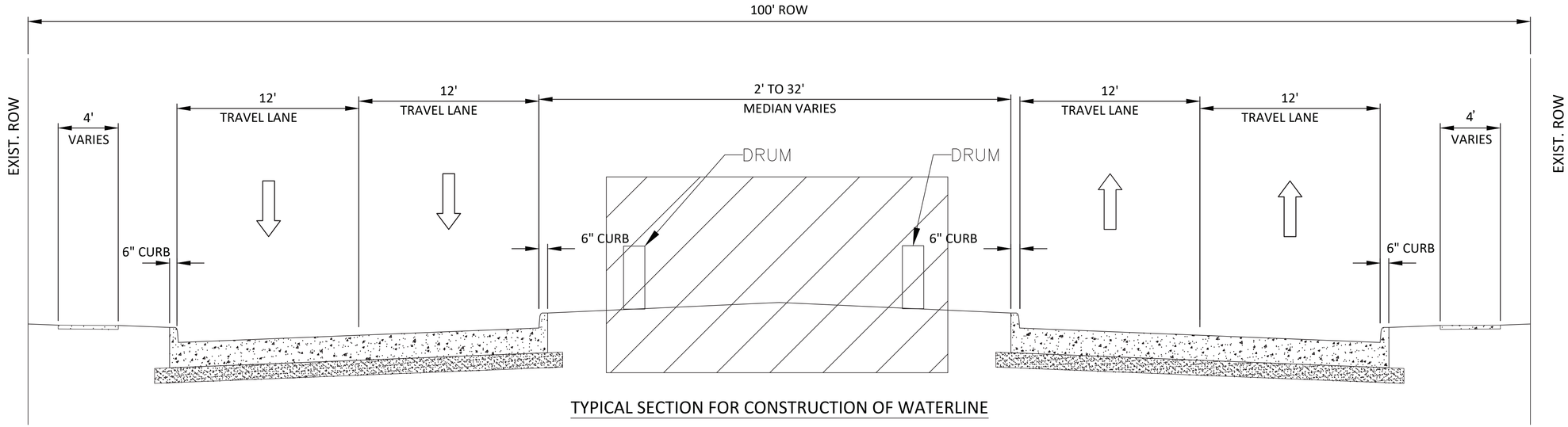
TRAFFIC CONTROL PLANS
OVERALL PHASING LAYOUT

TCP SHEET: 4

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N-210015-0001-3	
DRAWING SCALE	
1"=160'	
CITY OF HOUSTON PM	
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SHEET NO. 257 OF 369	

PLOTTED: 8/13/2026 5:00 PM

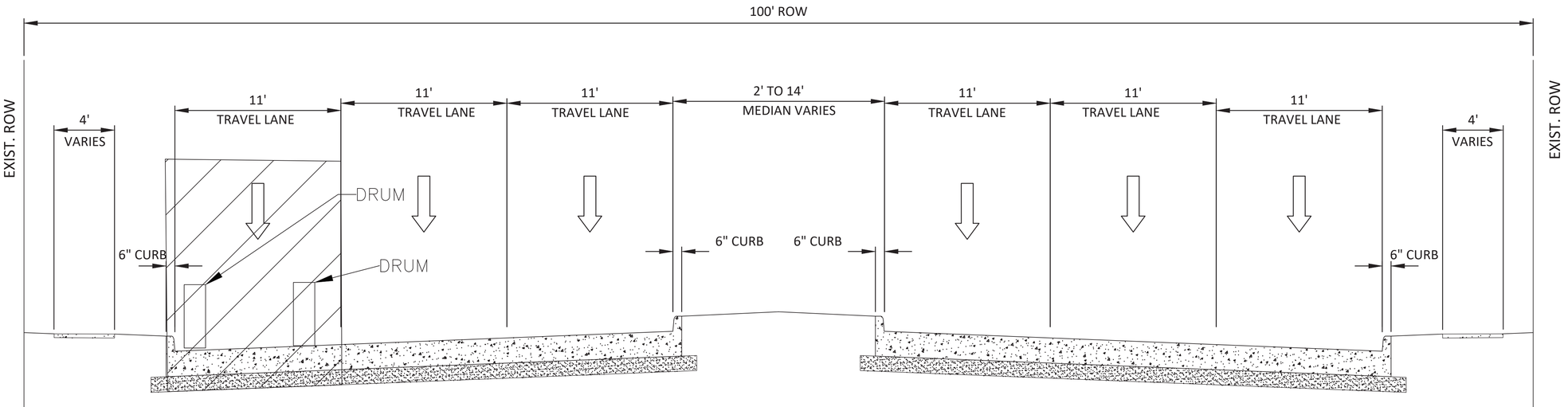
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TYPICAL SECTION FOR CONSTRUCTION OF WATERLINE

PHASE 1 STEP 2– STEP 7

N.T.S.



TYPICAL SECTION FOR CONSTRUCTION OF PROPOSED STORM SEWERS AND CONCRETE PAVEMENTS REPAIR

PHASE 1 STEP 8

N.T.S.

NOTES:
SEE PLAN AND PROFILE SHEETS FOR EXIST R.O.W. LIMITS AND DISTANCE FROM CENTERLINE

REPAIRED AND RESTORED PAVEMENT SECTION SHOULD MATCH THE EXISTING TYPICAL SECTION

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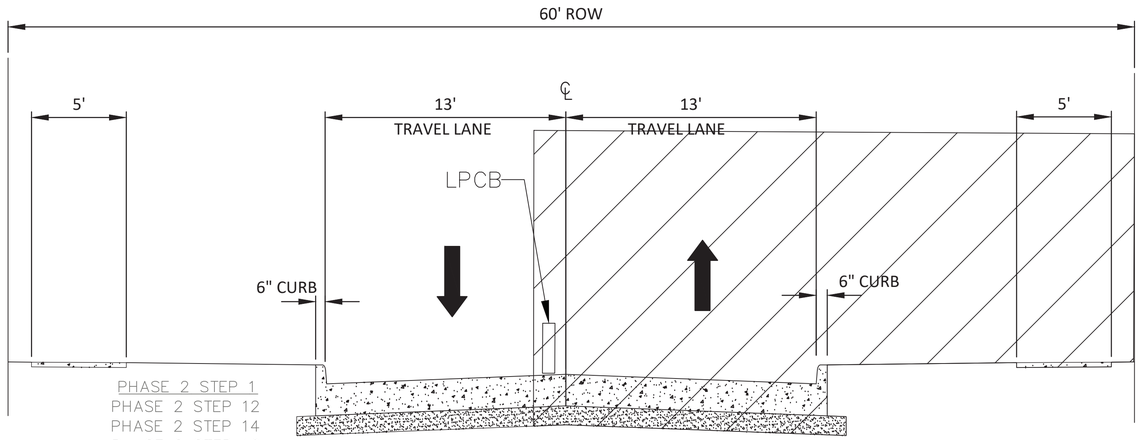
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ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
TYPICAL SECTIONS (1 OF 3)

TCP SHEET: 5

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
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SHEET NO. 258 OF 369	

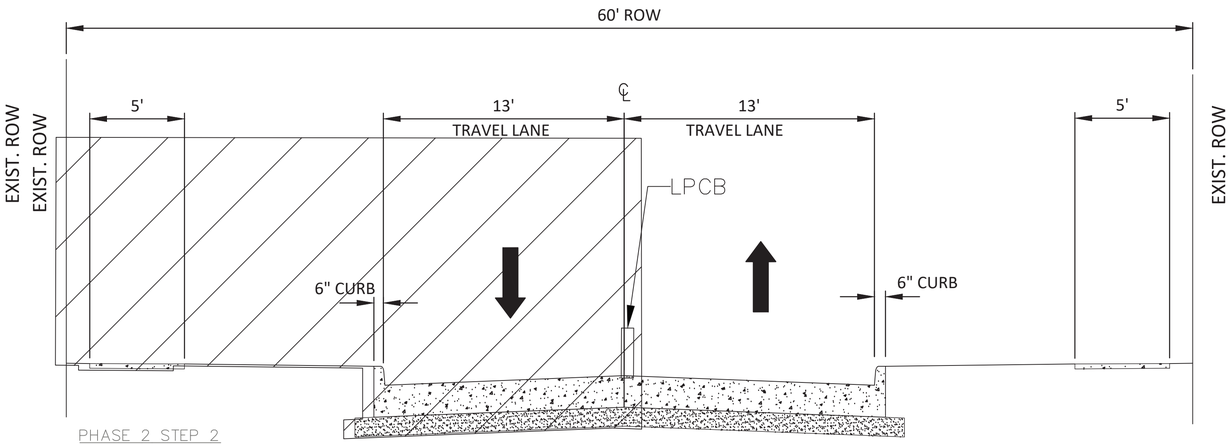
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FILE PATH: P:\ACTIVE\18PV97 – 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Cross Sections.dwg



PHASE 2 STEP 1
PHASE 2 STEP 12
PHASE 2 STEP 14
PHASE 2 STEP 19
PHASE 3 STEP 1
PHASE 4 STEP 2
PHASE 4 STEP 5
PHASE 5 STEP 1
PHASE 5 STEP 3
PHASE 5 STEP 5
PHASE 5 STEP 6
PHASE 5 STEP 7
PHASE 5 STEP 10
PHASE 5 STEP 12
PHASE 5 STEP 17
PHASE 5 STEP 18

TYPICAL SECTION FOR CONSTRUCTION OF PROPOSED STORM SEWERS AND CONCRETE PAVEMENTS

N.T.S.



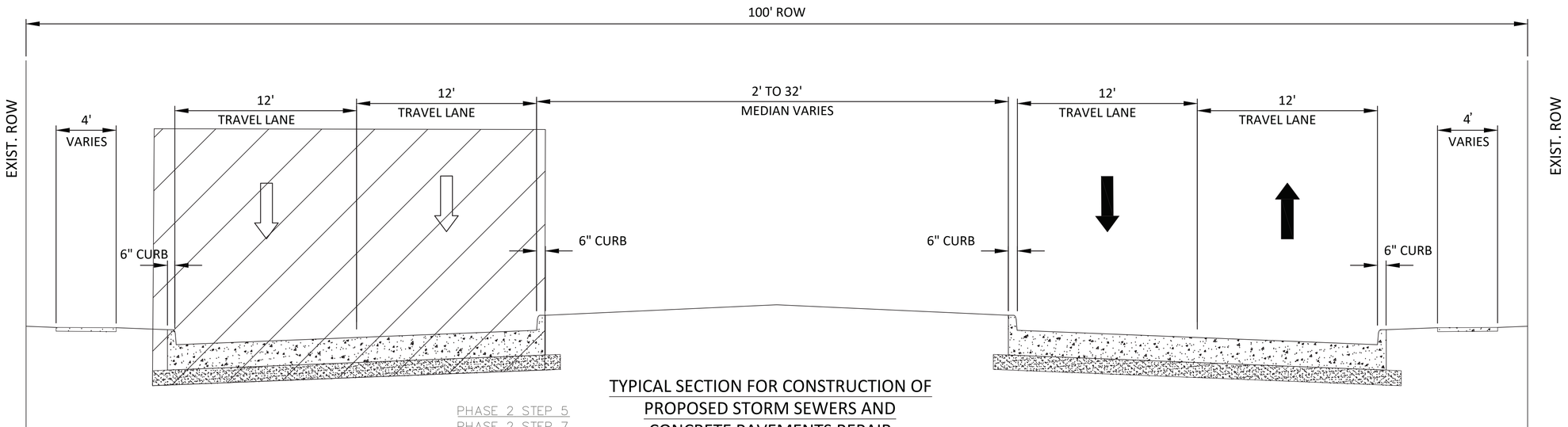
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PHASE 2 STEP 13
PHASE 3 STEP 2
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PHASE 3 STEP 4
PHASE 4 STEP 3
PHASE 4 STEP 4
PHASE 5 STEP 2
PHASE 5 STEP 4
PHASE 5 STEP 5.1
PHASE 5 STEP 6.1
PHASE 5 STEP 8
PHASE 5 STEP 9.1
PHASE 5 STEP 11
PHASE 5 STEP 13
PHASE 5 STEP 15
PHASE 5 STEP 16
PHASE 5 STEP 19

TYPICAL SECTION FOR CONSTRUCTION OF PROPOSED STORM SEWERS AND CONCRETE PAVEMENTS

N.T.S.

NOTES:
SEE PLAN AND PROFILE SHEETS FOR EXIST R.O.W. LIMITS AND DISTANCE FROM CENTERLINE

REPAIRED AND RESTORED PAVEMENT SECTION SHOULD MATCH THE EXISTING TYPICAL SECTION



PHASE 2 STEP 5
PHASE 2 STEP 7
PHASE 2 STEP 8
PHASE 2 STEP 9

TYPICAL SECTION FOR CONSTRUCTION OF PROPOSED STORM SEWERS AND CONCRETE PAVEMENTS REPAIR

N.T.S.

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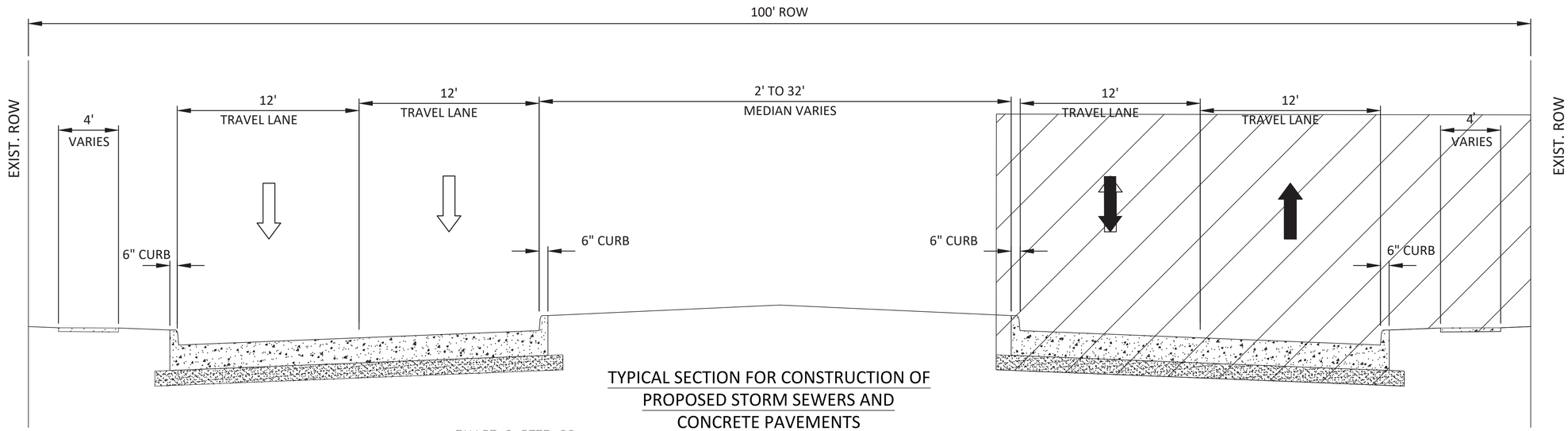
TRAFFIC CONTROL PLANS
TYPICAL SECTIONS (2 OF 3)

TCP SHEET: 6

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 259 OF 369	

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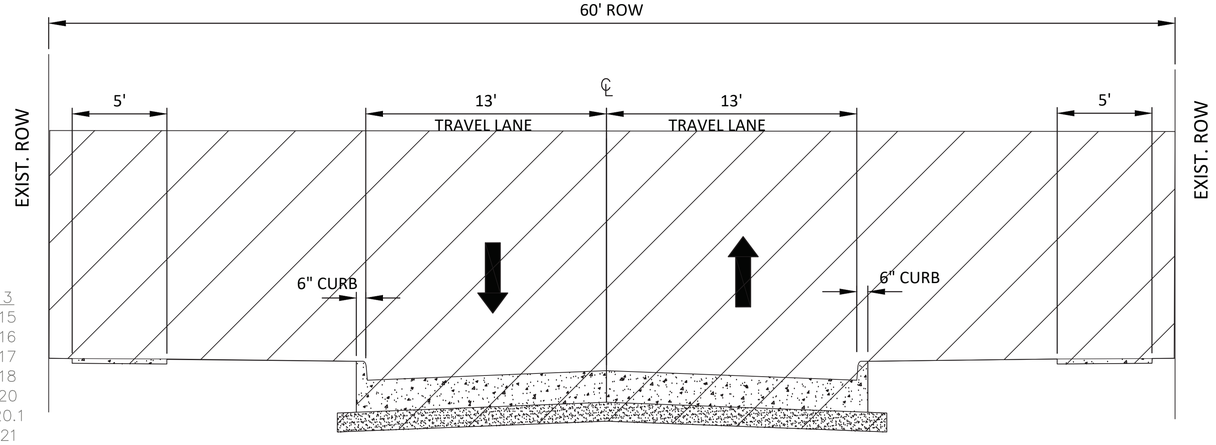
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TYPICAL SECTION FOR CONSTRUCTION OF
PROPOSED STORM SEWERS AND
CONCRETE PAVEMENTS

PHASE 2 STEP 22

N.T.S.



TYPICAL SECTION FOR CONSTRUCTION OF
PROPOSED STORM SEWERS AND
CONCRETE PAVEMENTS REPAIR

N.T.S.

PHASE 2 STEP 3
PHASE 2 STEP 15
PHASE 2 STEP 16
PHASE 2 STEP 17
PHASE 2 STEP 18
PHASE 2 STEP 20
PHASE 2 STEP 20.1
PHASE 2 STEP 21
PHASE 3 STEP 5
PHASE 3 STEP 6
PHASE 3 STEP 7
PHASE 4 STEP 1
PHASE 5 STEP 3
PHASE 5 STEP 5
PHASE 5 STEP 6
PHASE 5 STEP 7
PHASE 5 STEP 8
PHASE 5 STEP 11
PHASE 5 STEP 18

NOTES:
SEE PLAN AND PROFILE SHEETS FOR EXIST R.O.W. LIMITS AND DISTANCE FROM CENTERLINE

REPAIRED AND RESTORED PAVEMENT SECTION SHOULD MATCH THE EXISTING TYPICAL SECTION

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TRAFFIC CONTROL PLANS
TYPICAL SECTIONS (3 OF 3)

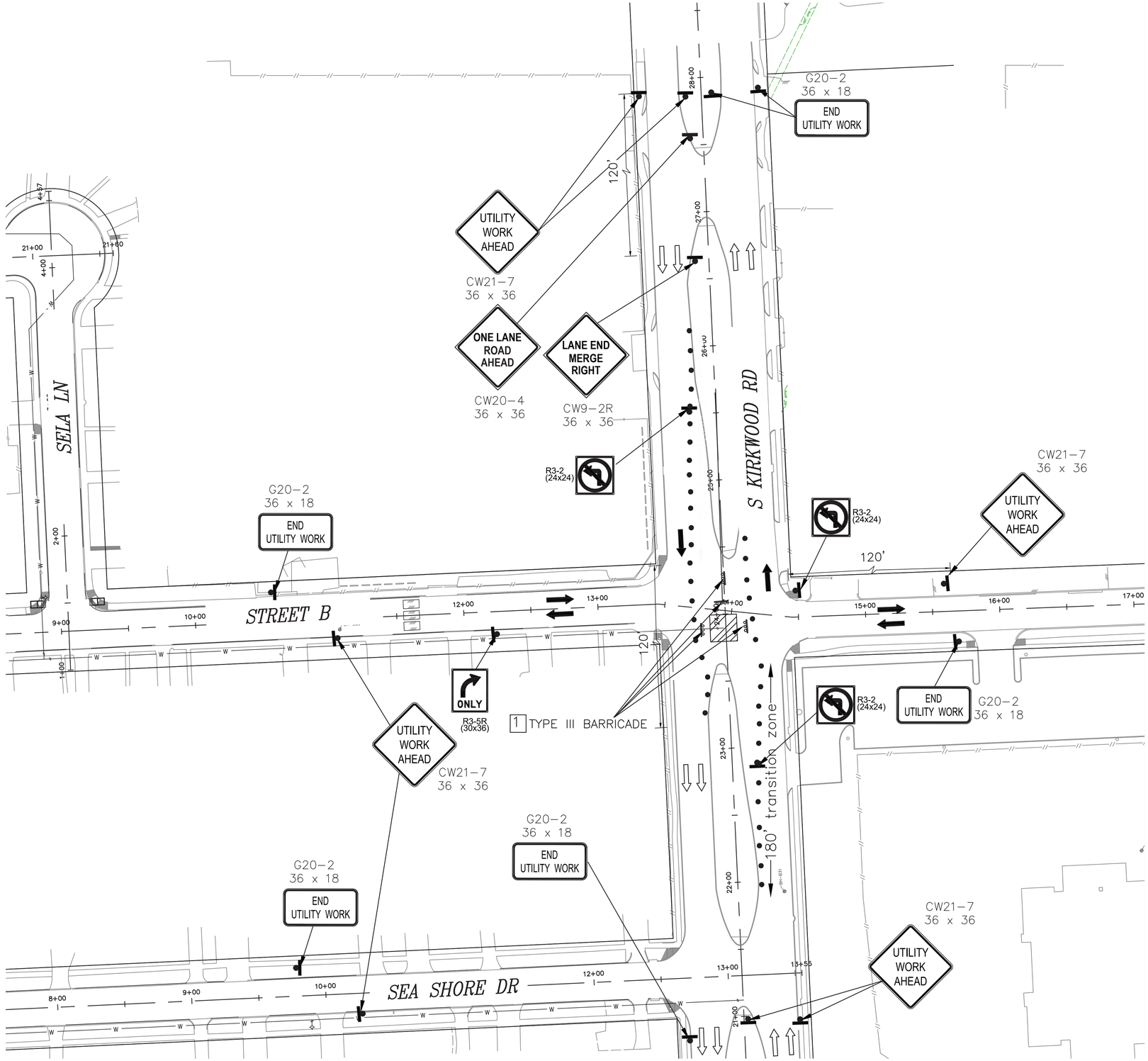
TCP SHEET: 7

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
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PLOTTED: 8/13/2026 5:01 PM



NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.
2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.
3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP:75 TO TCP:80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

NO.	DATE	REVISION	APP.

N

40 0 20 40 80

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER
- SPD PLASTIC DRUM (DRUM) (SEE LEGEND SP FOR SPACING)
- SP SPACED @ 20' C-C (ALONG WORK ZONE & TAPERS) SPACED @ 5' C-C (AT INTERSECTION & ON RADII)

PHASE 1 STEP 2

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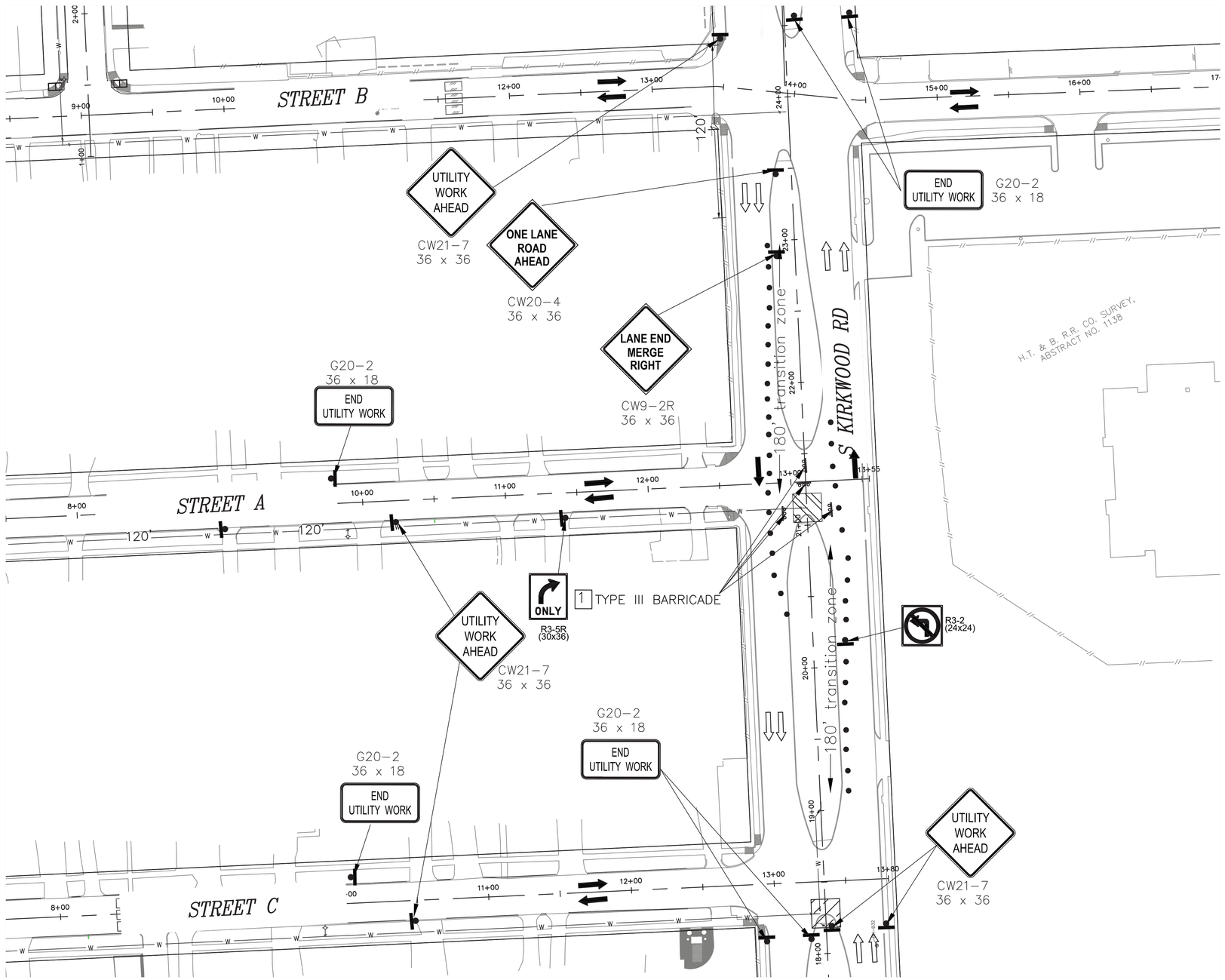
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TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 1 STEP 2

TCP SHEET: 8

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 261 OF 369	

FILE PATH: P:\ACTIVE\18Prj97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase1.dwg



PHASE 1 STEP 3 - 5

NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.
2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.
3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP: 75 TO TCP: 80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.
5) "STREET A" REFERS TO SEASHORE DRIVE, POMPANO STREET, AND SHARPCREST STREET WITHIN PHASE 1, STEPS 3, 4, AND 5, RESPECTIVELY. "STREET B" AND "STREET C" REPRESENT ADJACENT ROADS

N

40 0 20 40 80

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER
- PLASTIC DRUM (DRUM) (SEE LEGEND SP FOR SPACING
  - SPACED @ 20' C-C (ALONG WORK ZONE & TAPERS)
  - SPACED @ 5' C-C (AT INTERSECTION & ON RADII)

NO.	DATE	REVISION	APP.

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P.E. Reg No: 130533
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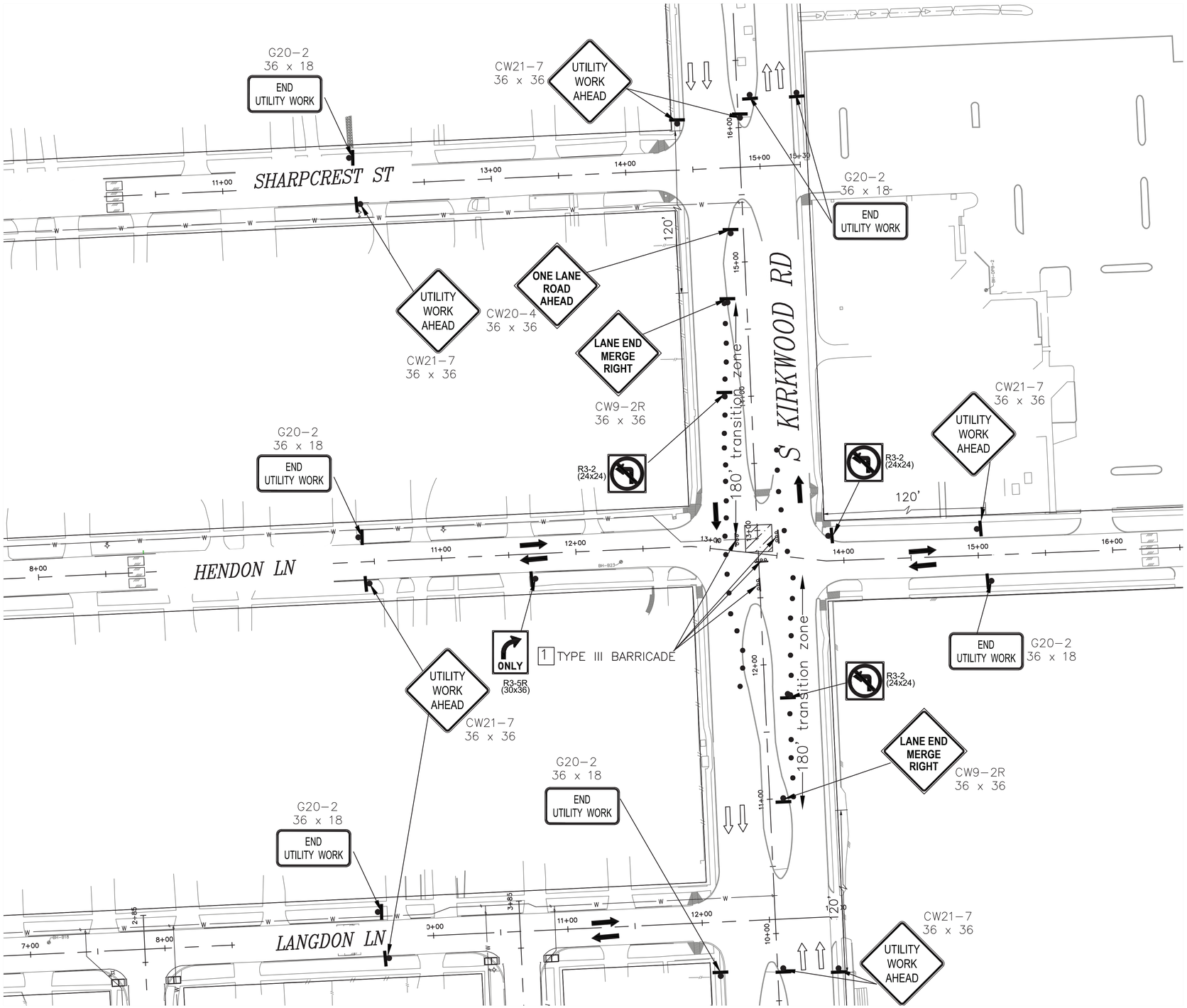
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TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 1 STEP 3-5

TCP SHEET: 9

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 262 OF 369	

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PHASE 1 STEP 6

NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.
2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.
3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP:75 TO TCP:80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

N

40 0 20 40 80

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER
- PLASTIC DRUM (DRUM) (SEE LEGEND SP FOR SPACING)
  - SPACED @ 20' C-C (ALONG WORK ZONE & TAPERS)
  - SPACED @ 5' C-C (AT INTERSECTION & ON RADII)

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P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
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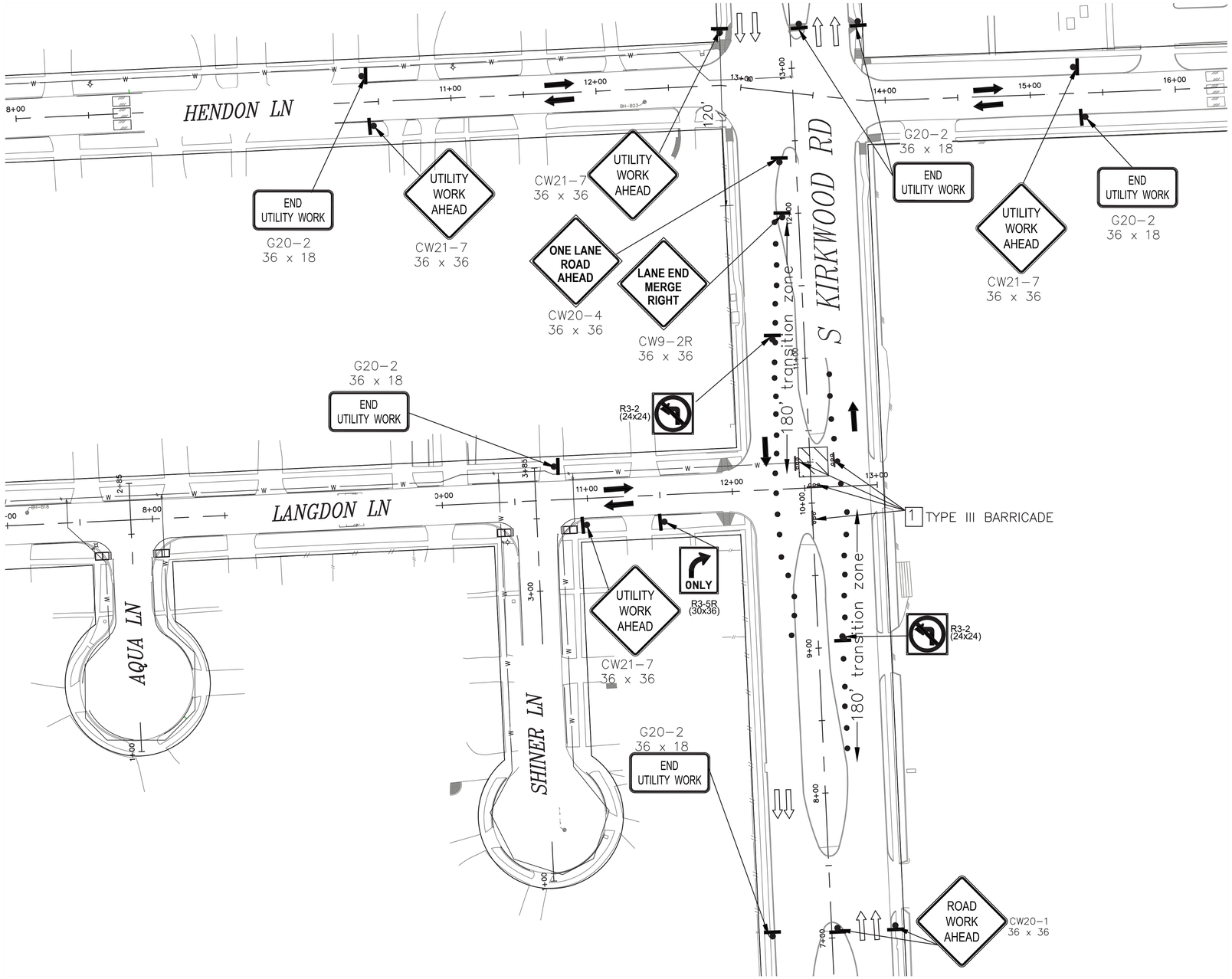
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 1 STEP 6

TCP SHEET: 10

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N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 263 OF 369	

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PHASE 1 STEP 7

NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.
2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.
3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP: 75 TO TCP: 80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

N

40 0 20 40 80

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER
- SPD PLASTIC DRUM (DRUM) (SEE LEGEND SP FOR SPACING)
- SP SPACED @ 20' C-C (ALONG WORK ZONE & TAPERS) SPACED @ 5' C-C (AT INTERSECTION & ON RADII)

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Houston, Texas 77042
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F 713 748 3748
TBPE Firm Reg. #4575

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P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P-6382

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

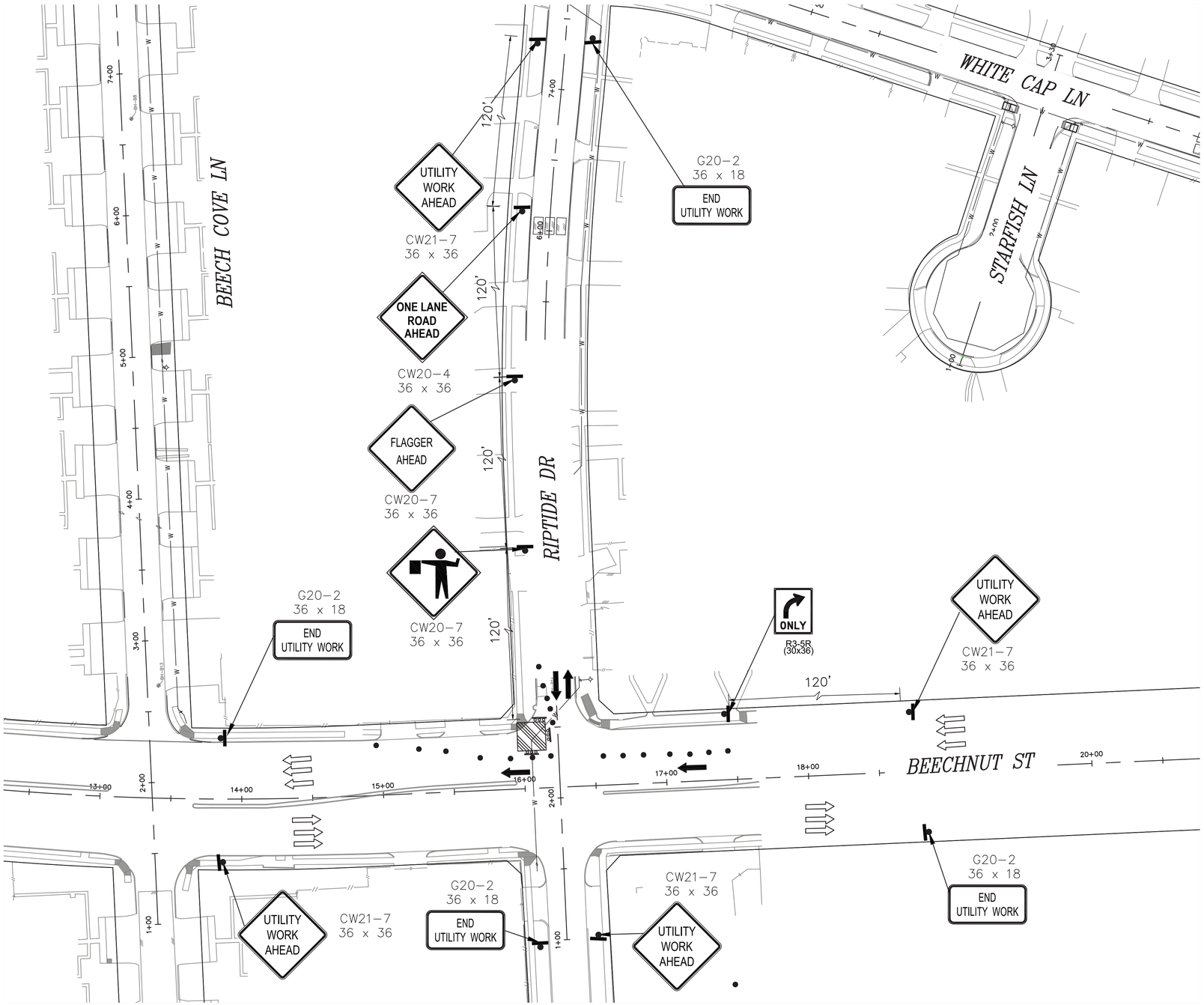
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 1 STEP 7

TCP SHEET: 11

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 264 OF 369	

PLOTTED: 8/13/2026 5:01 PM

FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase1.dwg



PHASE 1 STEP 8

NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.
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4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

N

40 0 20 40 80

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER
- PD PLASTIC DRUM (DRUM) (SEE LEGEND SP FOR SPACING)
- SP SPACED @ 20' C-C (ALONG WORK ZONE & TAPERS) SPACED @ 5' C-C (AT INTERSECTION & ON RADII)

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

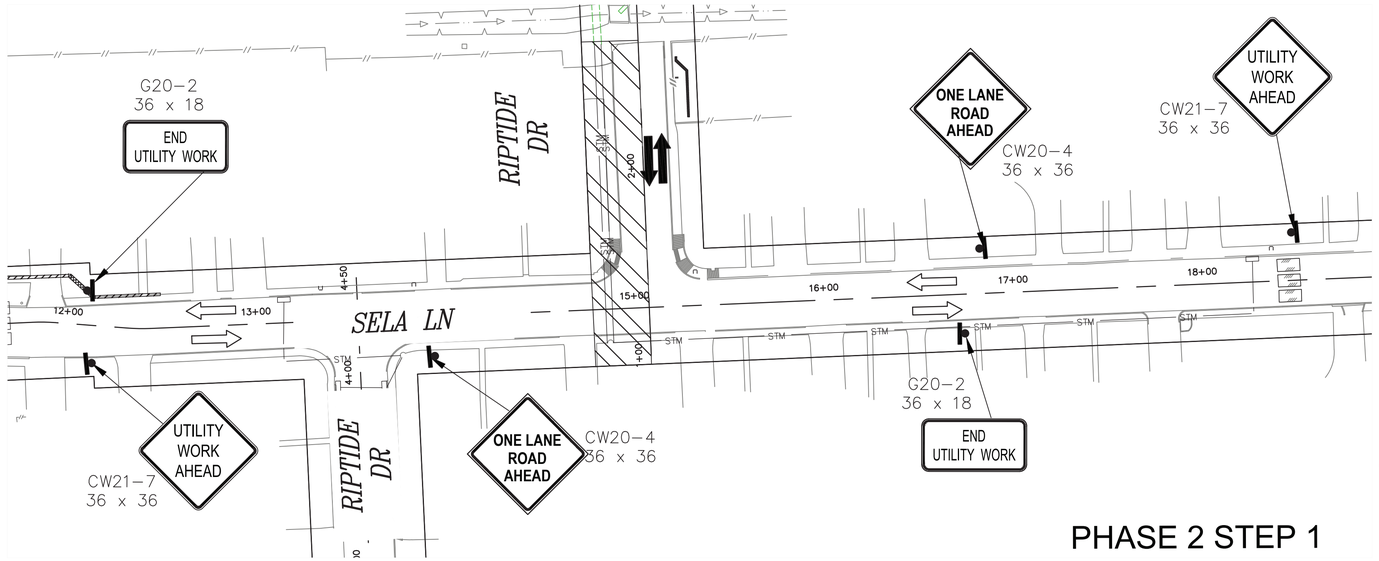
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 1 STEP 8

TCP SHEET: 12

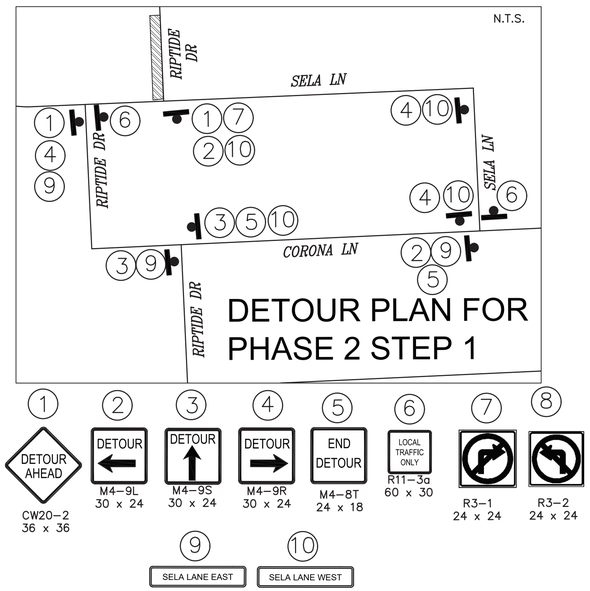
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 265 OF 369	

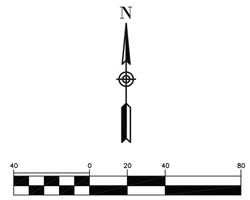
PLOTTED: 8/13/2026 5:01 PM

FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase1.dwg



PHASE 2 STEP 1



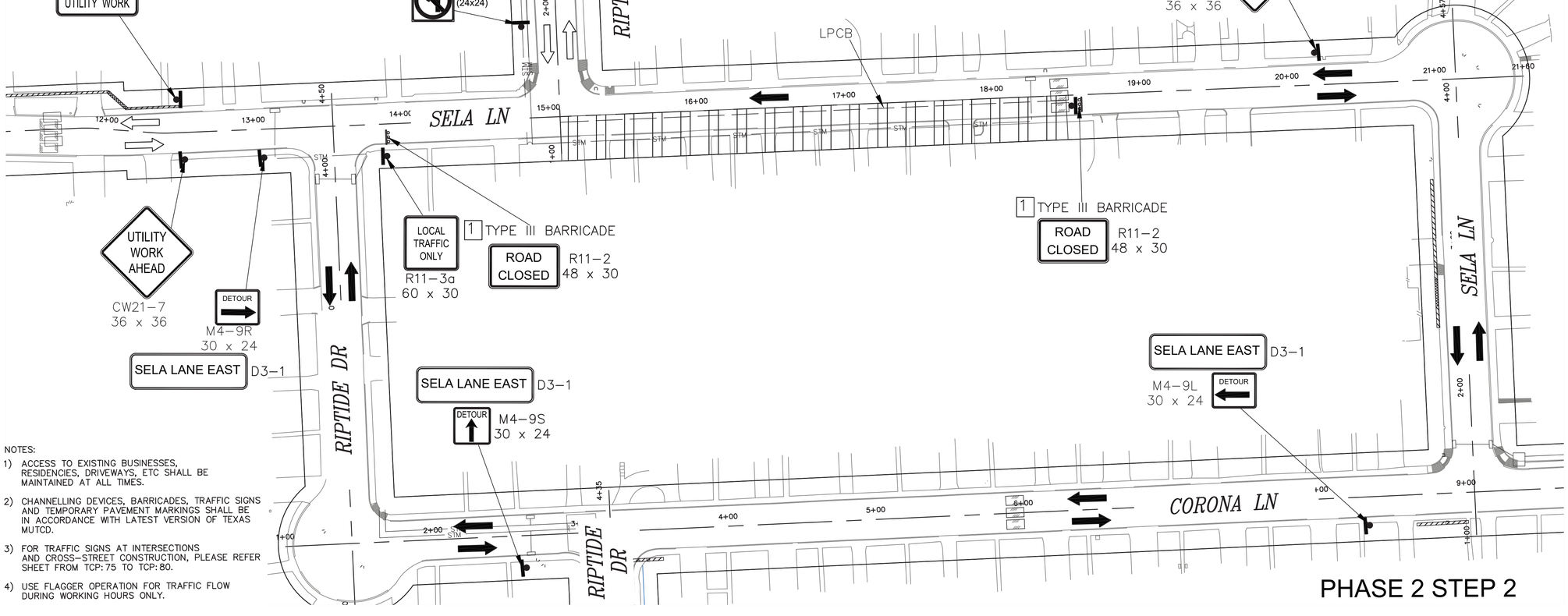


SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER
- SPD PLASTIC DRUM (DRUM) (SEE LEGEND SP FOR SPACING)
- SP SPACED @ 20' C-C (ALONG WORK ZONE & TAPERS) SPACED @ 5' C-C (AT INTERSECTION & ON RADII)

NO.	DATE	REVISION	APP.



PHASE 2 STEP 2

NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.
2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.
3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP:75 TO TCP:80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

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P.E. Reg No: 130533
DATE: AUGUST 2026

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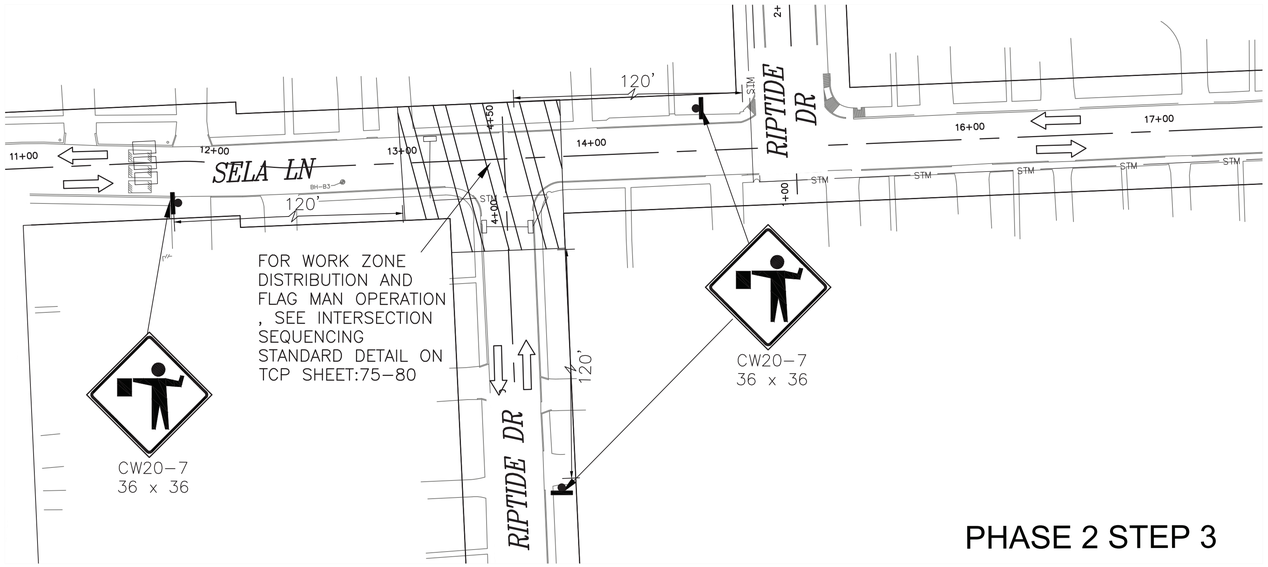
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 2 STEP 1-2

TCP SHEET: 13

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 266 OF 369	

PLOTTED: 8/13/2026 5:01 PM
FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase2.1-2.2.dwg



PHASE 2 STEP 3

NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.
2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.
3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS–STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP: 75 TO TCP: 80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

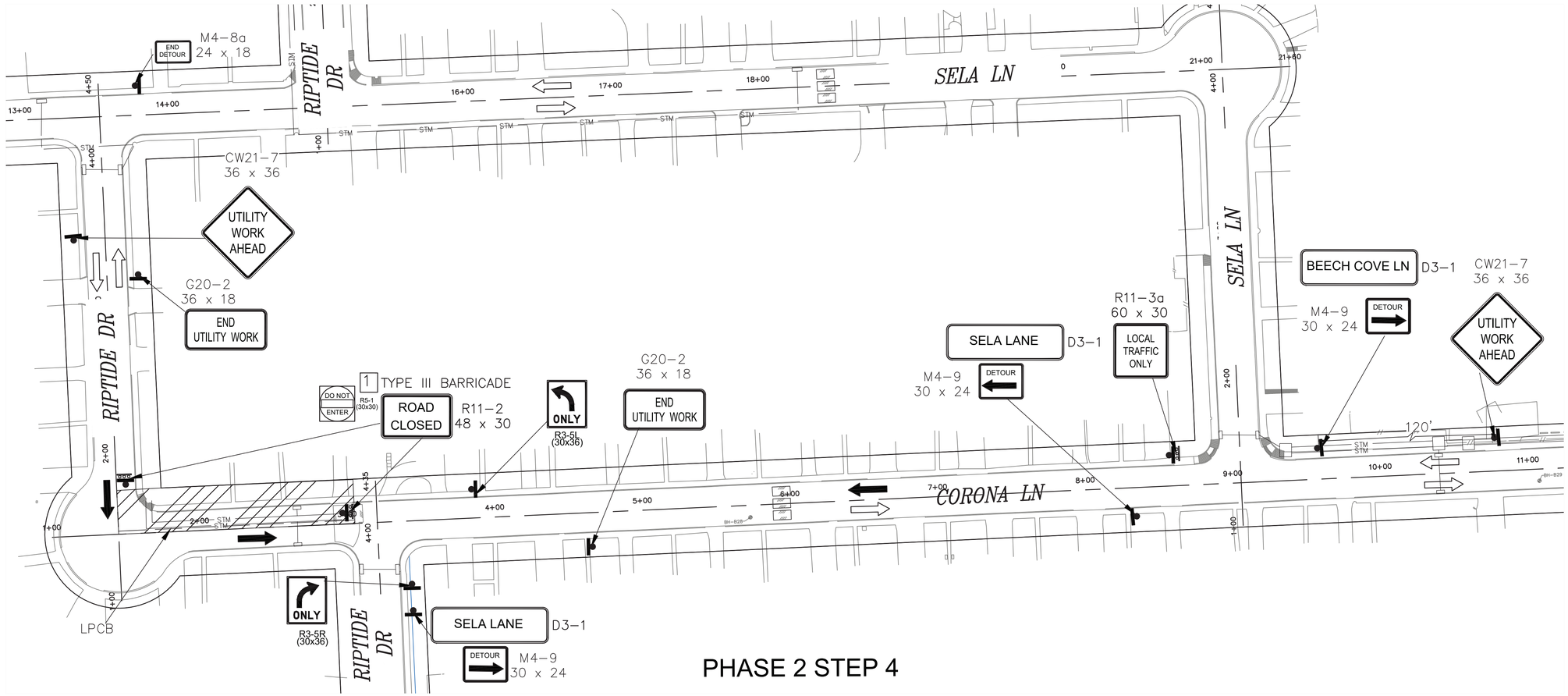
N

40 0 20 40 80

SCALE: 1" = 40'–0" FEET FOR 22"X34" SHEET

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER
- SPD PLASTIC DRUM (DRUM) (SEE LEGEND SP FOR SPACING)
- SP SPACED @ 20' C–C (ALONG WORK ZONE & TAPERS) SPACED @ 5' C–C (AT INTERSECTION & ON RADII)



PHASE 2 STEP 4

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P.E Reg No: 130533
DATE: AUGUST 2026

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ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 2 STEP 3–4

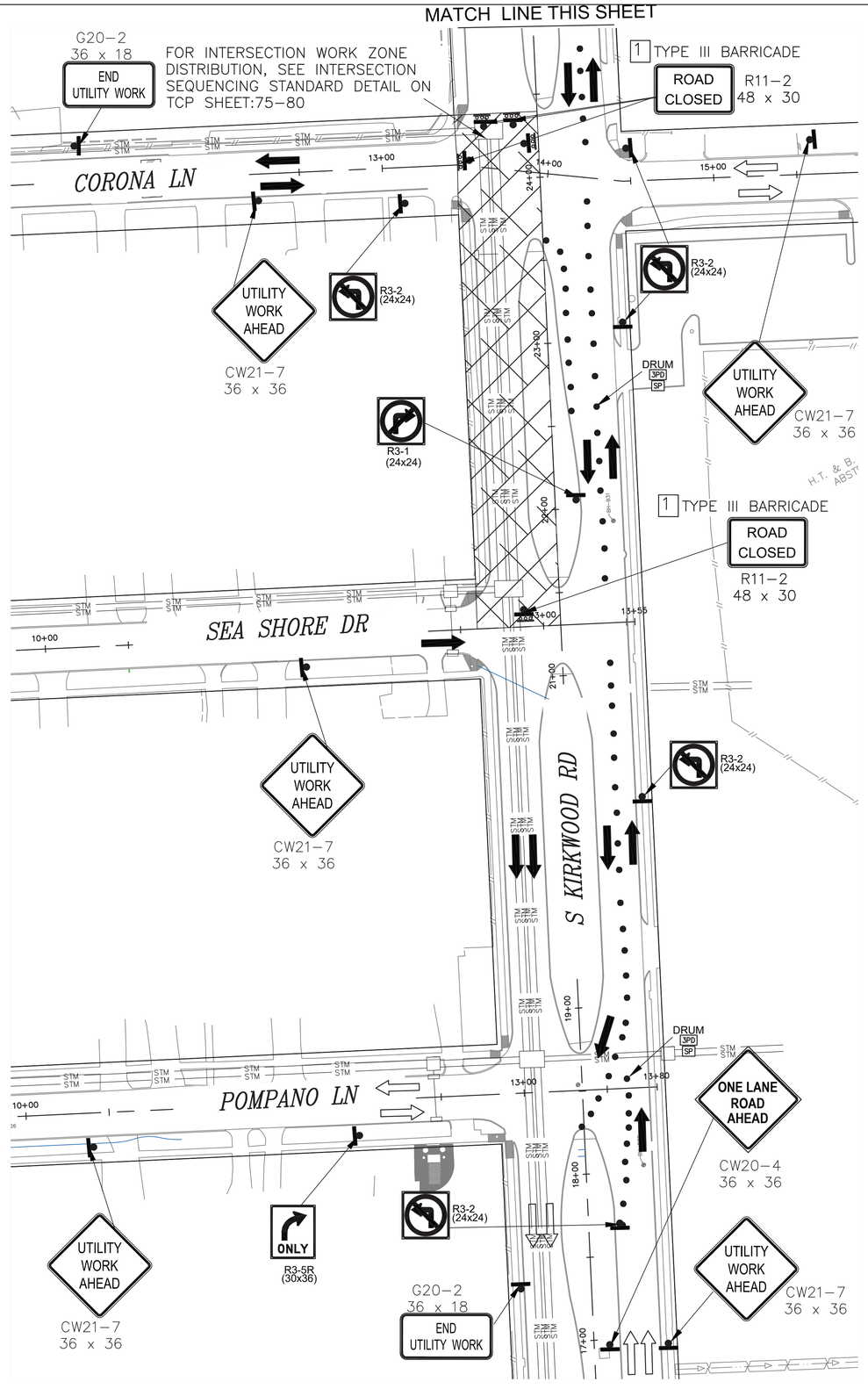
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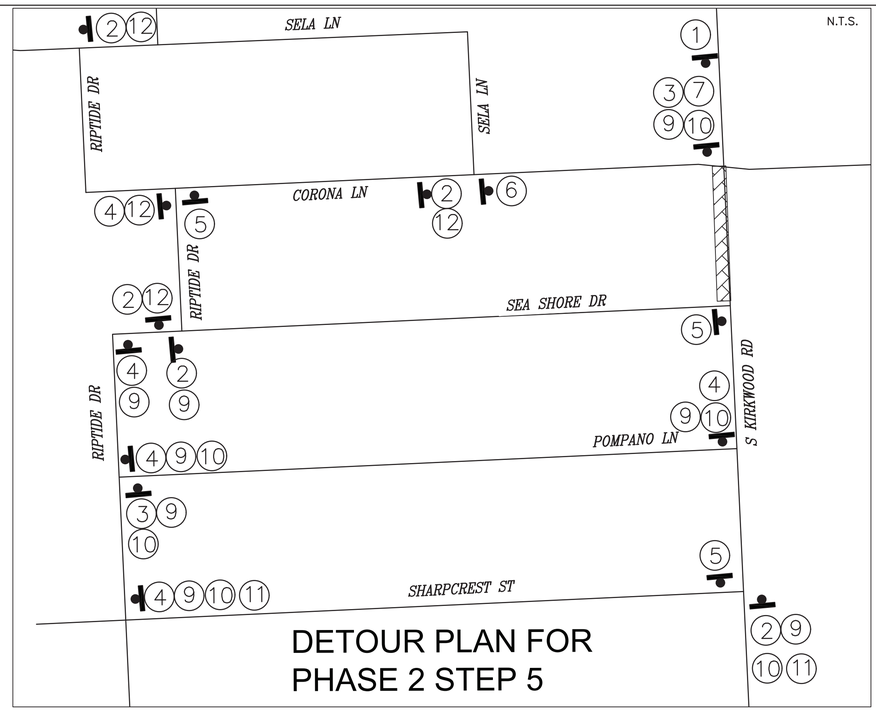
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 267 OF 369	

NO.	DATE	REVISION	APP.

PLOTTED: 8/13/2026 5:02 PM

FILE PATH: P:\ACTIVE\18PW97 – 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase2,3–2,4.dwg

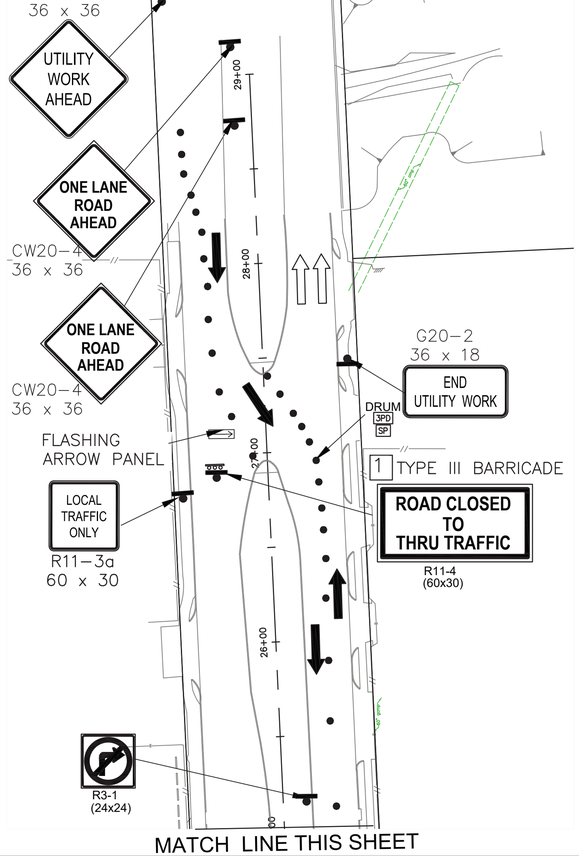


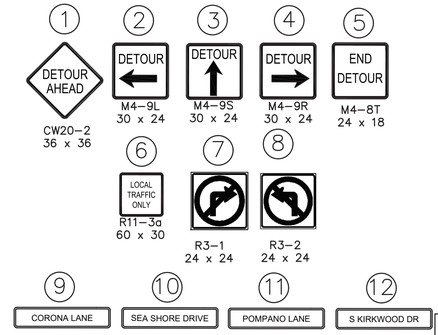


DETOUR PLAN FOR PHASE 2 STEP 5

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER
- 3PD SP PLASTIC DRUM (DRUM) (SEE LEGEND SP FOR SPACING)
- SP SPACED @ 20' C-C (ALONG WORK ZONE & TAPERS) SPACED @ 5' C-C (AT INTERSECTION & ON RADII)





NOTES:

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3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP:75 TO TCP:80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

PHASE 2 STEP 5

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P.E.Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
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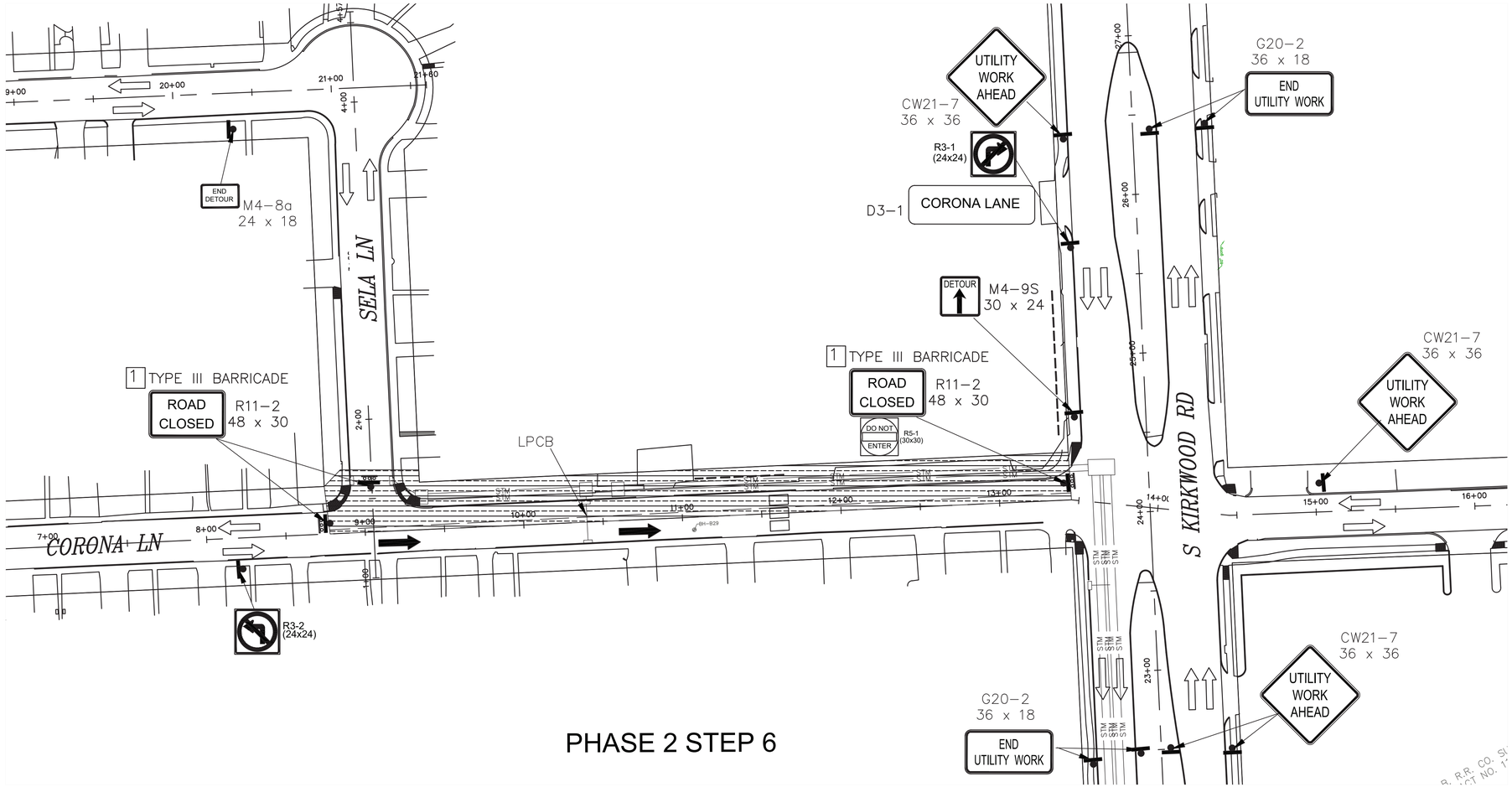
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 2 STEP 5

TCP SHEET: 15

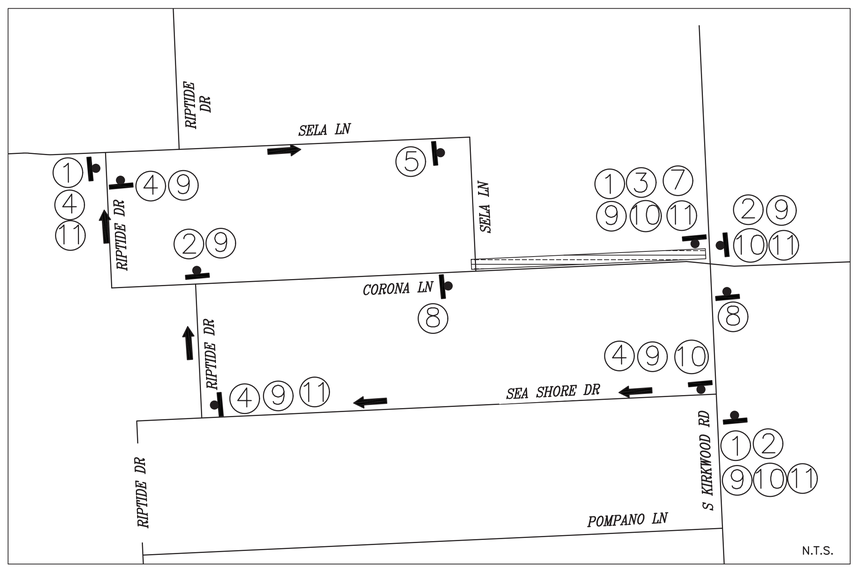
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 268 OF 369	

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FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase2.5.dwg



PHASE 2 STEP 6



NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.
2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.
3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP: 75 TO TCP: 80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

1 DETOUR AHEAD CW20-2 36 x 36
2 DETOUR M4-9L 30 x 24
3 DETOUR M4-9S 30 x 24
4 DETOUR M4-9R 30 x 24
5 END DETOUR M4-8T 24 x 18
6 ROAD CLOSED R11-2 48 x 30
7 R3-1 24 x 24
8 R3-2 24 x 24
9 SELA LANE
10 RIPTIDE DRIVE
11 CORONA LANE

N

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

LEGEND:
- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER
- PD PLASTIC DRUM (DRUM) (SEE LEGEND SP FOR SPACING)
- SP SPACED @ 20' C-C (ALONG WORK ZONE & TAPERS) SPACED @ 5' C-C (AT INTERSECTION & ON RADII)

NO.	DATE	REVISION	APP.

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F 713 748 3748
TBPE Firm Reg. #4575

SURVEYED BY: Kuo&Associates
FB NO. P-6382

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 2 STEP 6

TCP SHEET: 16

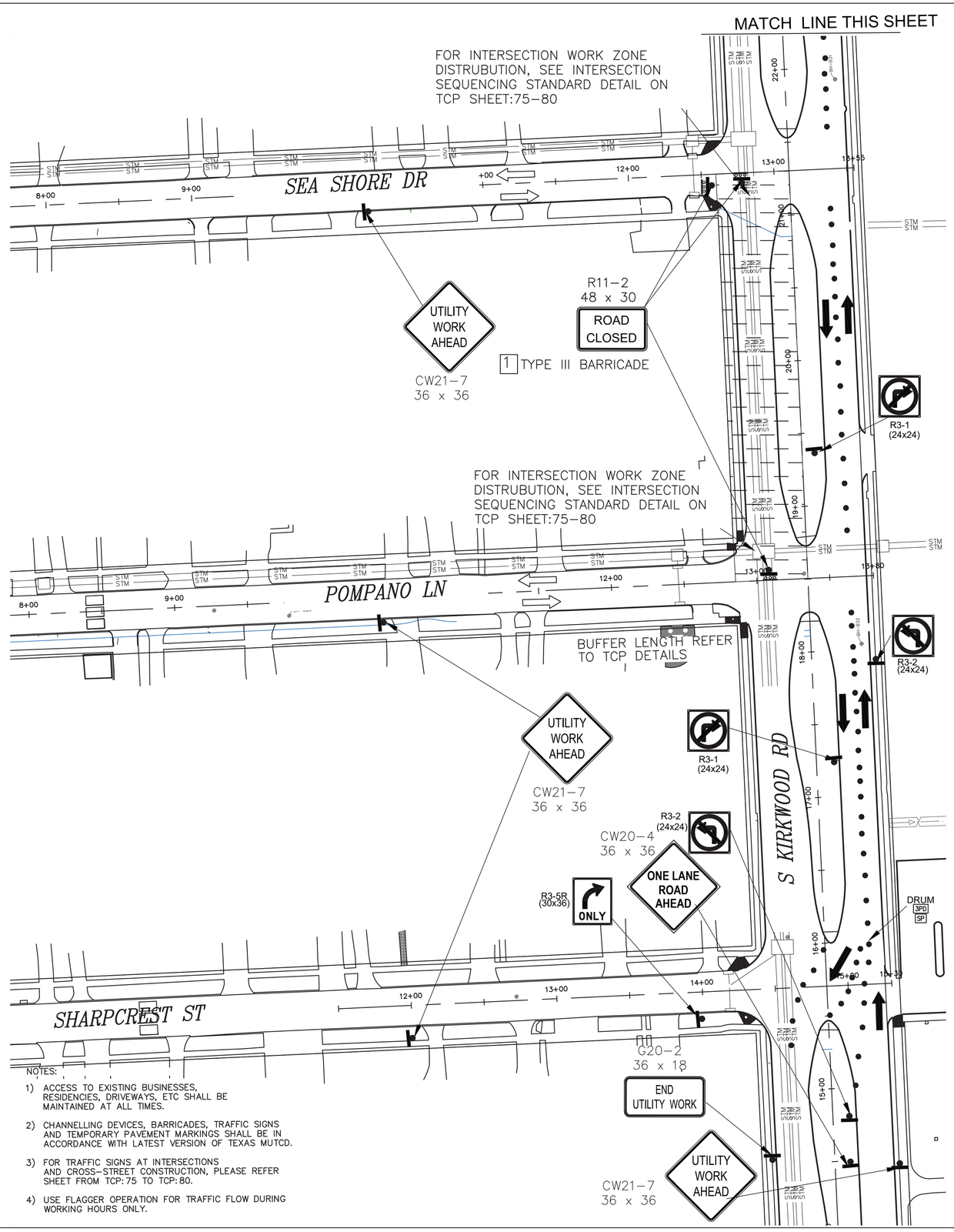
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N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 269 OF 369	

PLOTTED: 8/13/2026 5:02 PM

FILE PATH: P:\ACTIVE\18PV97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase2.6.dwg

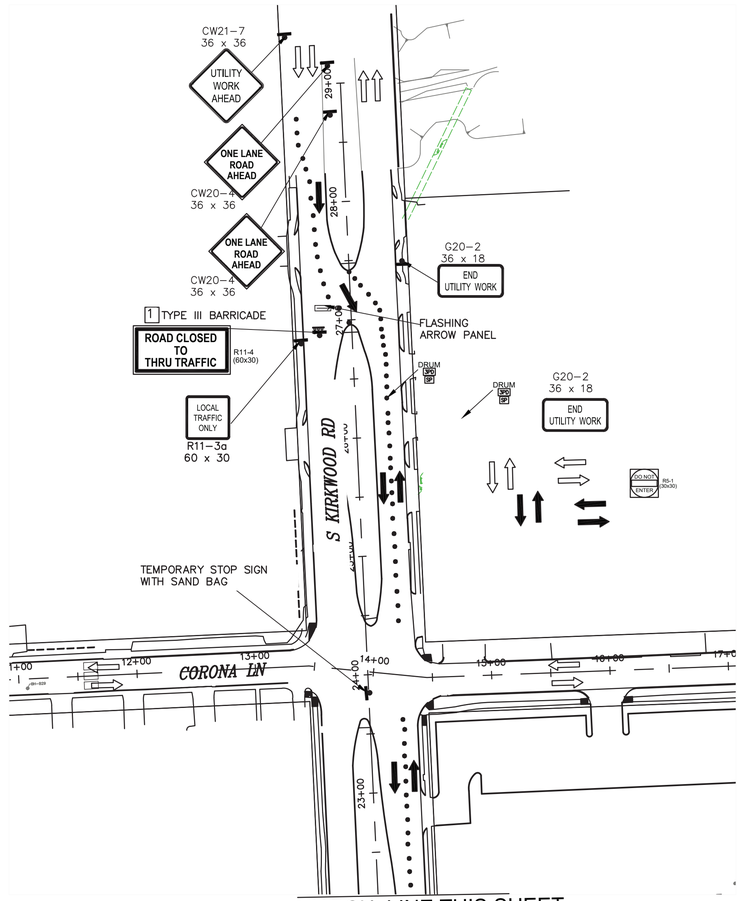
PLOTTED: 8/13/2026 5:02 PM

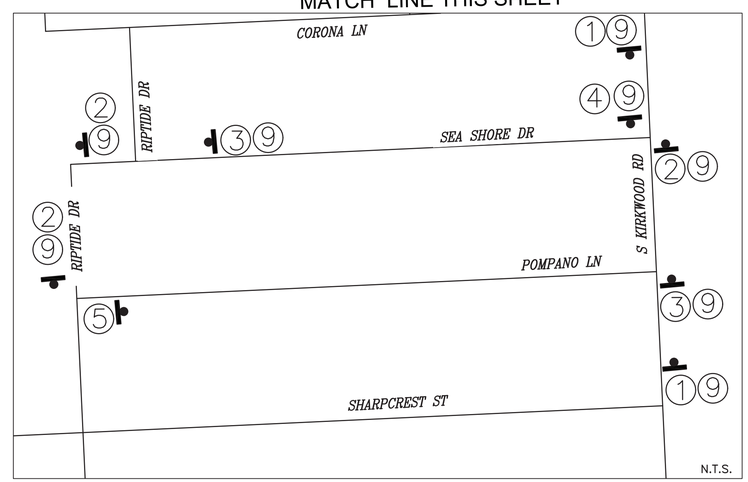
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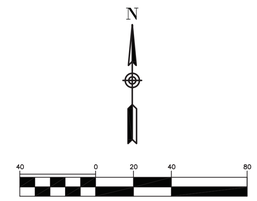
NOTES:

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3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS–STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP:75 TO TCP:80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.





1 DETOUR AHEAD — CW20–2, 36 x 36
2 DETOUR — M4–9L, 30 x 24
3 DETOUR — M4–9S, 30 x 24
4 DETOUR — M4–9R, 30 x 24
5 END DETOUR — M4–8T, 24 x 18
6 ROAD CLOSED — R11–2, 48 x 30
7 R3–1, 24 x 24
8 R3–2, 24 x 24
9 POMPANO LANE



SCALE: 1" = 40'–0" FEET FOR 22"X34" SHEET

PHASE 2 STEP 7

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER
- PLASTIC DRUM (DRUM) (SEE LEGEND SP FOR SPACING)
- SPACED @ 20' C–C (ALONG WORK ZONE & TAPERS)
- SPACED @ 5' C–C (AT INTERSECTION & ON RADII)

NO.	DATE	REVISION	APP.

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TBPE Firm Reg. #4575

SURVEYED BY: Kuo&Associates
FB NO. P–6382

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

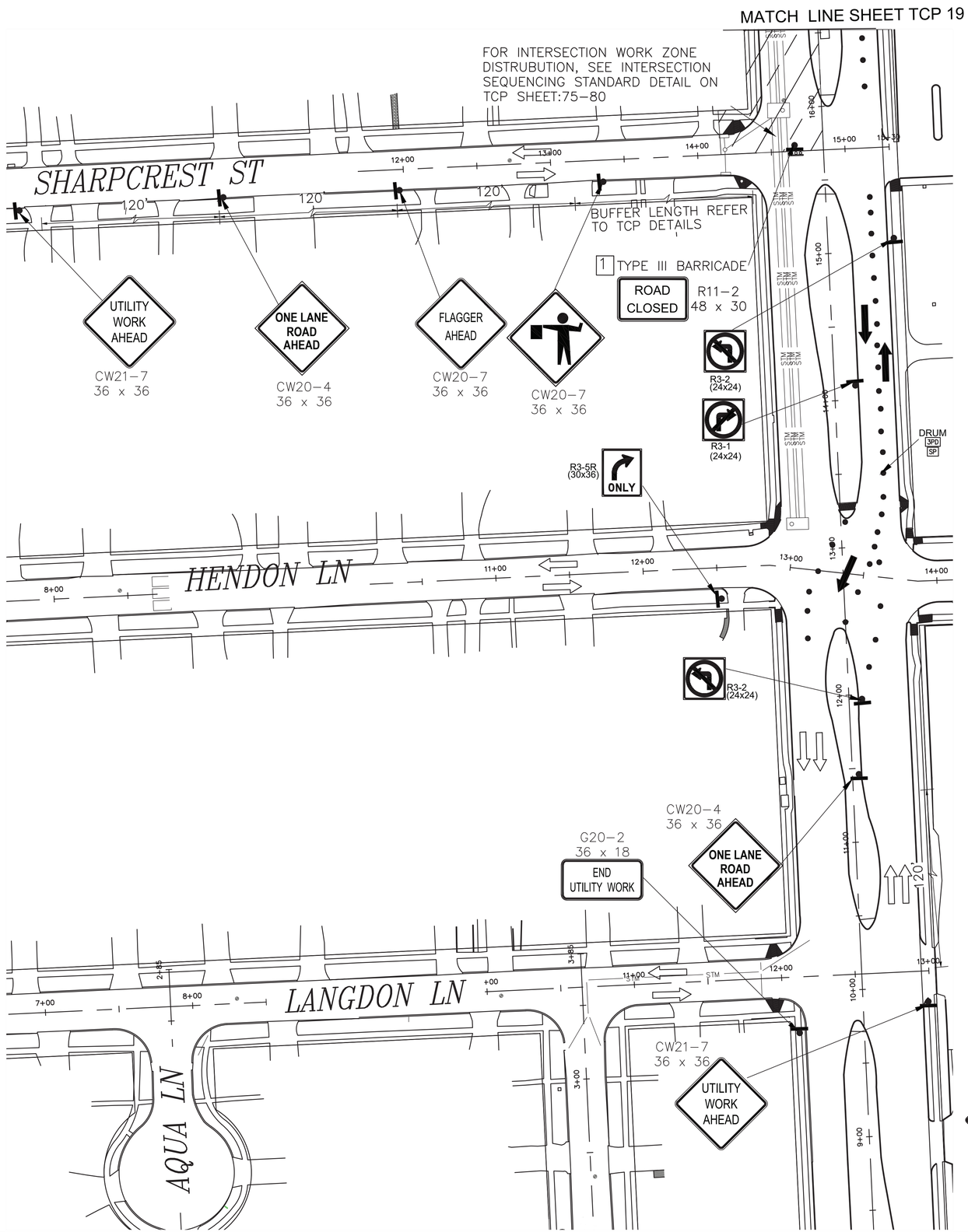
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 2 STEP 7

TCP SHEET: 17

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 270 OF 369	

PLOTTED: 8/13/2026 5:03 PM

FILE PATH: P:\ACTIVE\18Py97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase2.8.dwg



NOTES:

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2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.
3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS–STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP: 75 TO TCP: 80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

NO.	DATE	REVISION	APP.

N

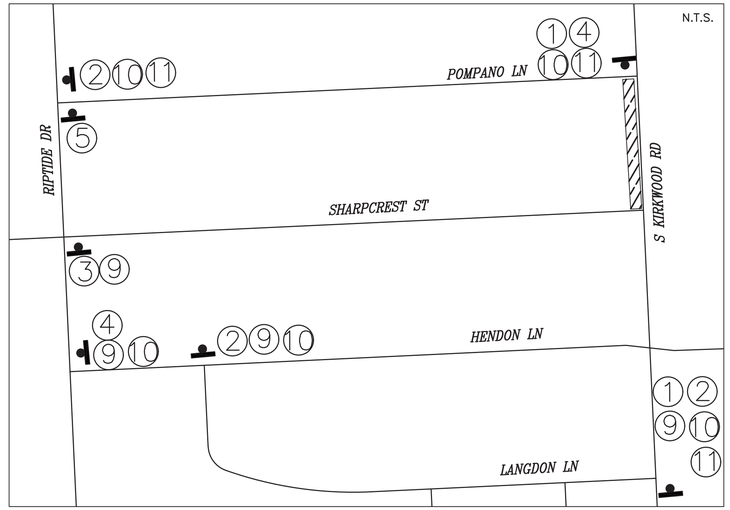
40 0 20 40 80

SCALE: 1" = 40'–0" FEET FOR 22"X34" SHEET

PHASE 2 STEP 8

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER
- 3PD PLASTIC DRUM (DRUM) (SEE LEGEND SP FOR SPACING)
- SP SPACED @ 20' C–C (ALONG WORK ZONE & TAPERS) SPACED @ 5' C–C (AT INTERSECTION & ON RADII)



1 DETOUR AHEAD CW20–2 36 x 36
2 DETOUR M4–9L 30 x 24
3 DETOUR M4–9S 30 x 24
4 DETOUR M4–9R 30 x 24
5 END DETOUR M4–8T 24 x 18
6 ROAD CLOSED R11–2 48 x 30
7 R3–1 24 x 24
8 R3–2 24 x 24
9 POMPANO LANE
10 SHARPCREST ST
11 HENDON LANE

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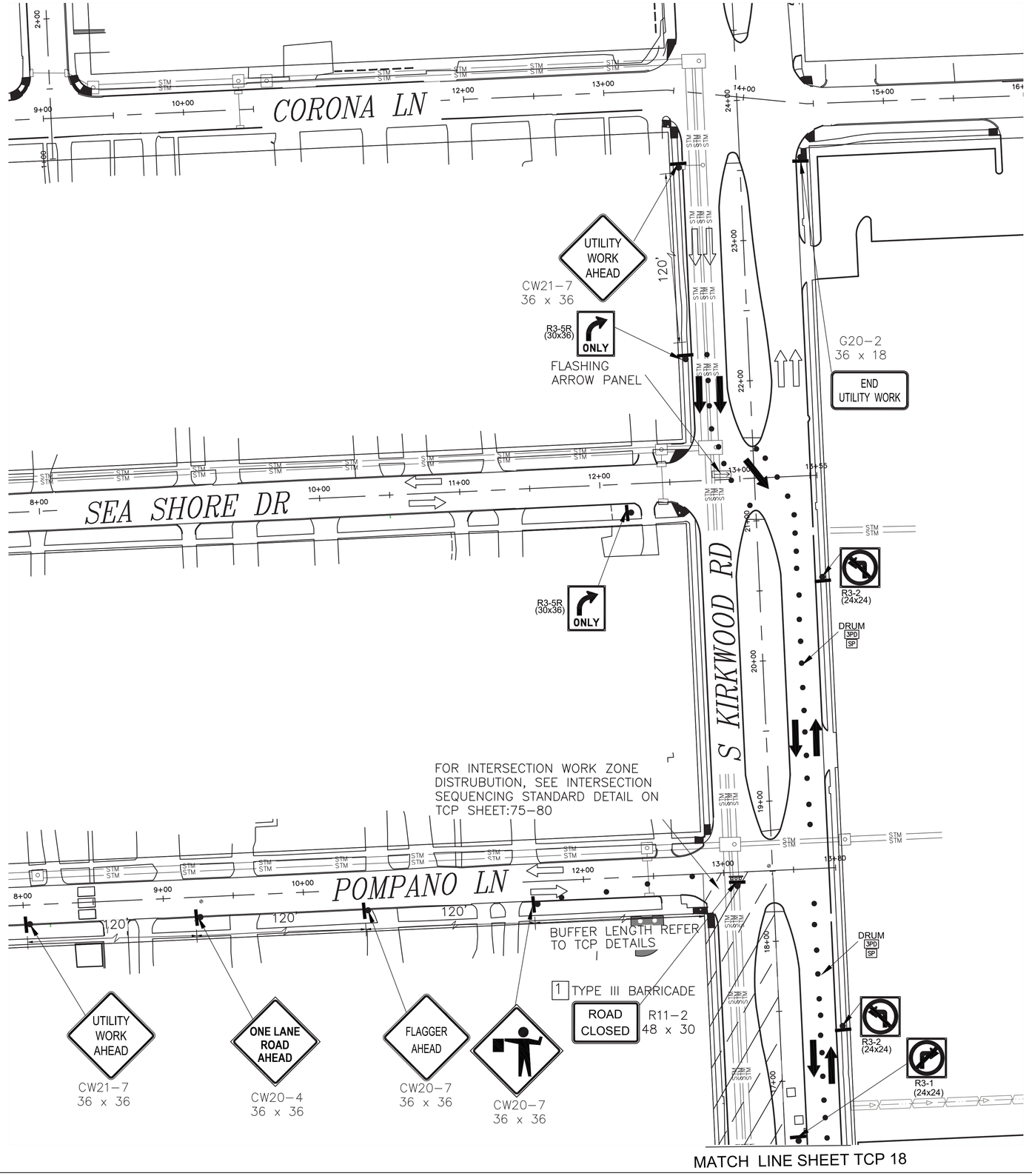
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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 2 STEP 8
SHEET 1 OF 2

TCP SHEET: 18

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 271 OF 369	



NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.
2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.
3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP:75 TO TCP:80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

NO.	DATE	REVISION	APP.

N

40 0 20 40 80

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 2 STEP 8

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER
- 3PD PLASTIC DRUM (DRUM) (SEE LEGEND SP FOR SPACING)
- SP SPACED @ 20' C-C (ALONG WORK ZONE & TAPERS) SPACED @ 5' C-C (AT INTERSECTION & ON RADII)

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 2 STEP 8
SHEET 2 OF 2

TCP SHEET: 19

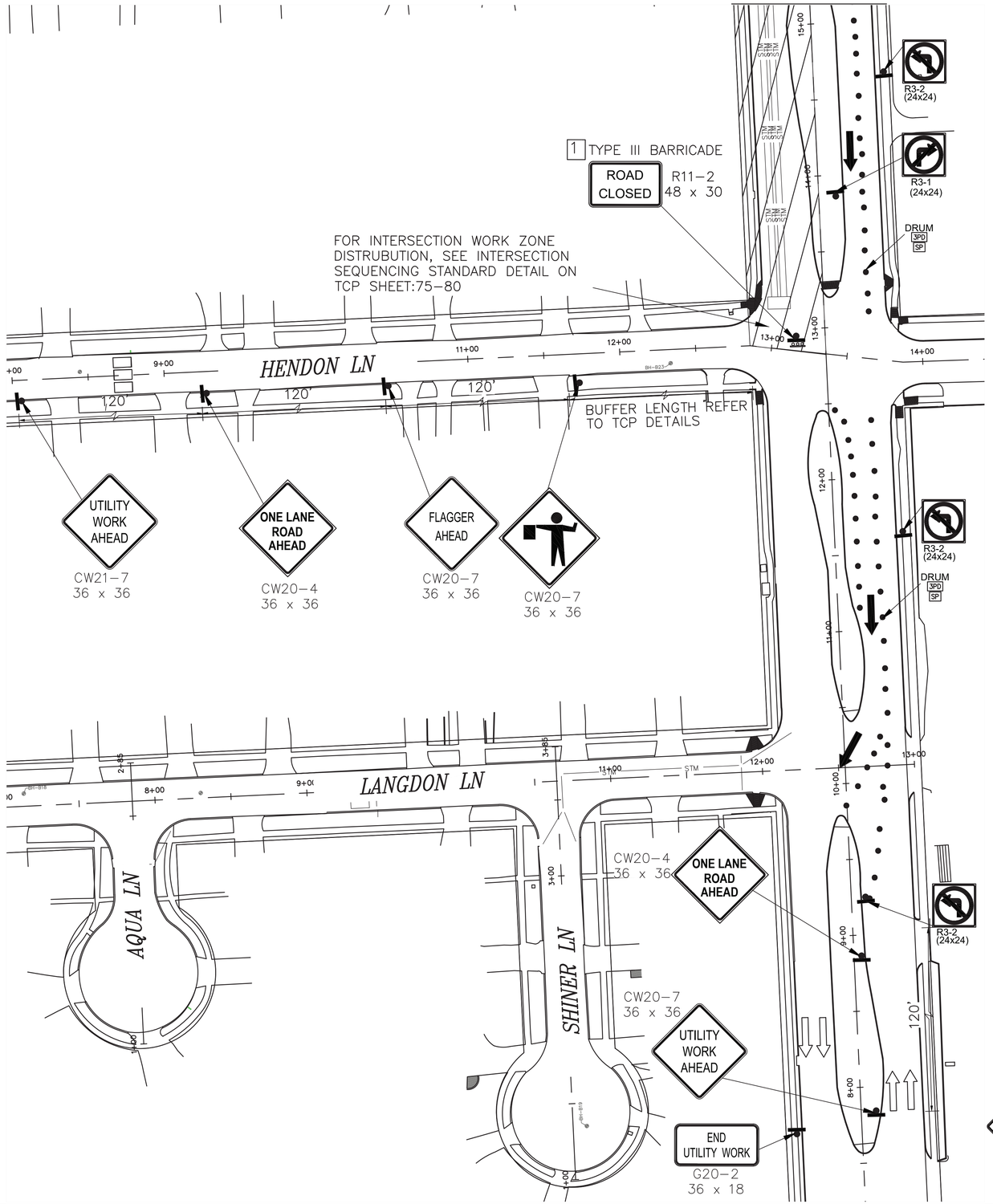
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DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 272 OF 369	

PLOTTED: 8/13/2026 5:03 PM
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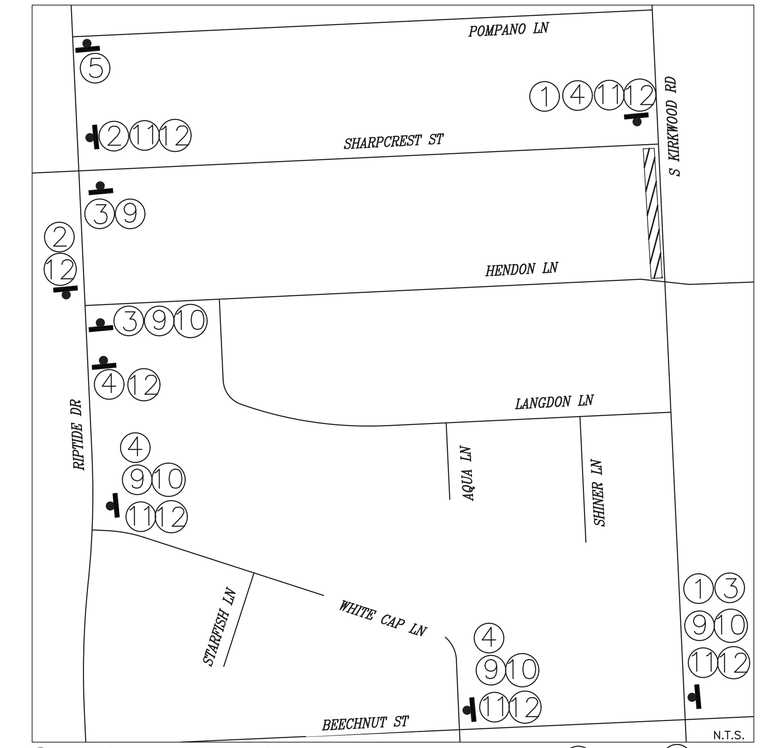
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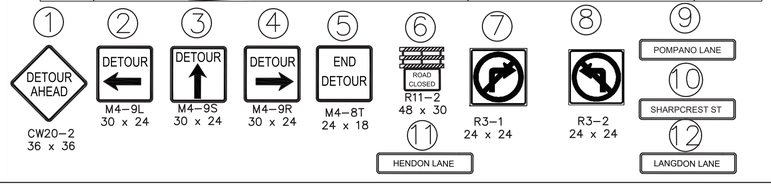
MATCH LINE SHEET TCP 21

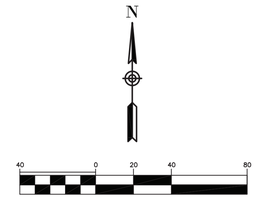


NOTES:

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3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP:75 TO TCP:80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.







SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 2 STEP 9

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER
- 3PD / SP PLASTIC DRUM (DRUM) (SEE LEGEND SP FOR SPACING)
  SPACED @ 20' C-C (ALONG WORK ZONE & TAPERS)
  SPACED @ 5' C-C (AT INTERSECTION & ON RADII)

NO.	DATE	REVISION	APP.

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ENGINEER: RAHUL B MENON, P.E
P.E.Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

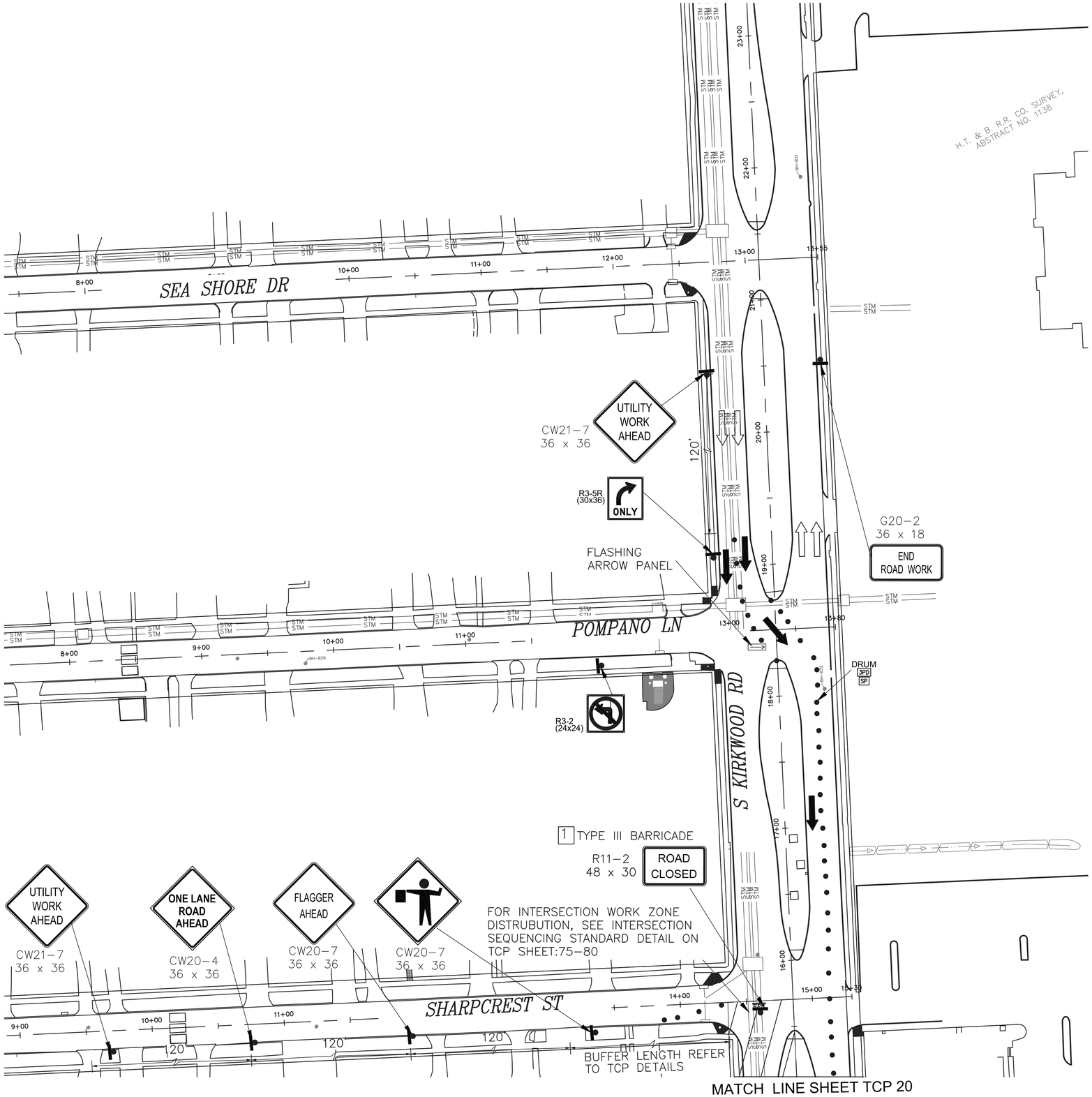
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 2 STEP 9
SHEET 1 OF 2

TCP SHEET: 20

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 273 OF 369	

PLOTTED: 8/13/2026 5:03 PM

FILE PATH: P:\ACTIVE\118PW97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase2.9.dwg



NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.
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3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP: 75 TO TCP: 80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

NO.	DATE	REVISION	APP.

N

40 0 20 40 80

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 2 STEP 9

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER
- SPD PLASTIC DRUM (DRUM) (SEE LEGEND SP FOR SPACING)
- SPACED @ 20' C-C (ALONG WORK ZONE & TAPERS)
- SPACED @ 5' C-C (AT INTERSECTION & ON RADII)

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ENGINEER: RAHUL R MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

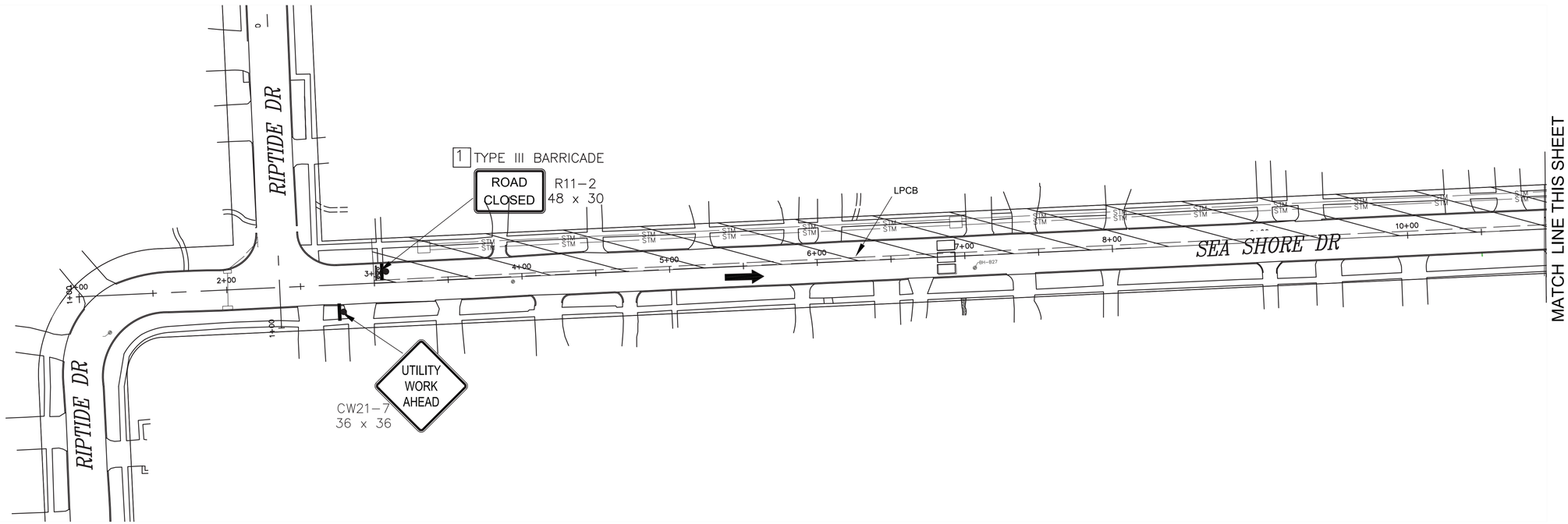
CITY OF HOUSTON
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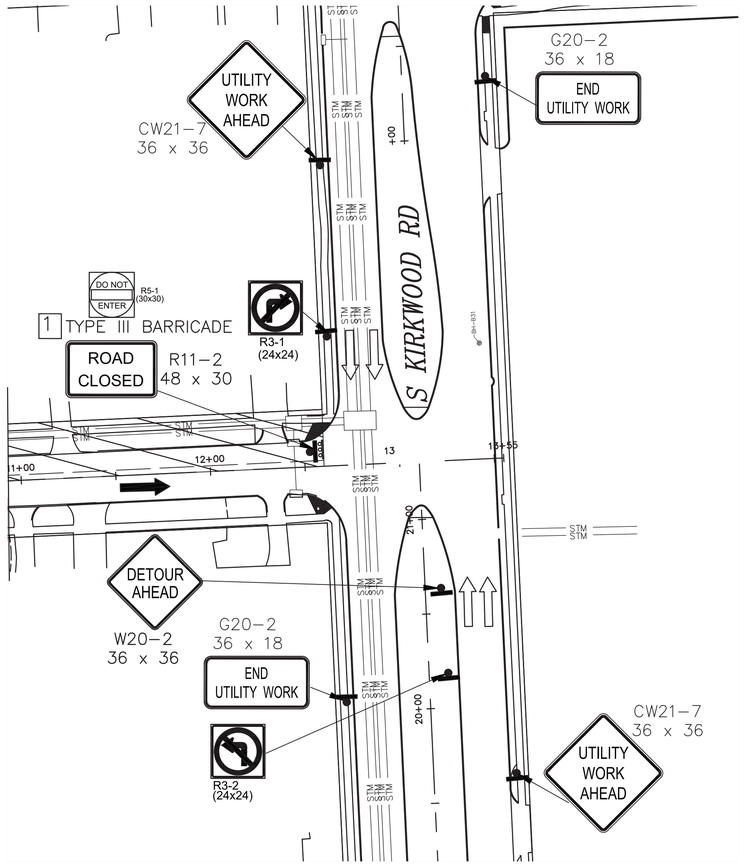
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

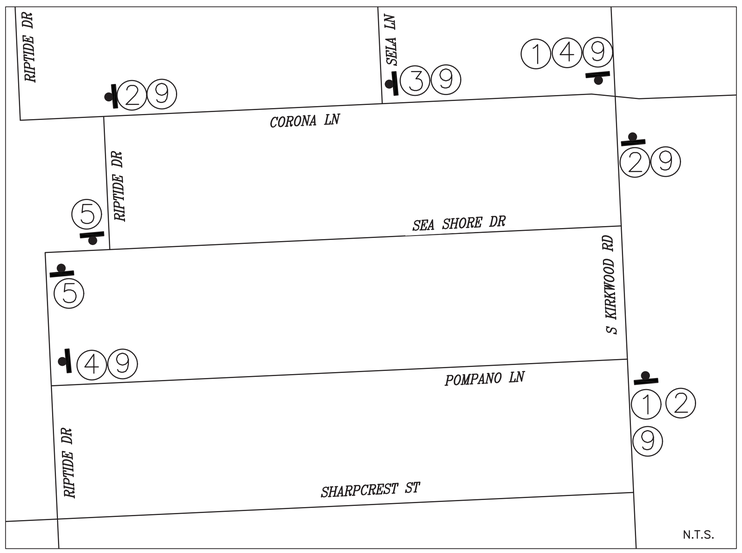
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 2 STEP 9
SHEET 2 OF 2

TCP SHEET: 21

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 274 OF 369	

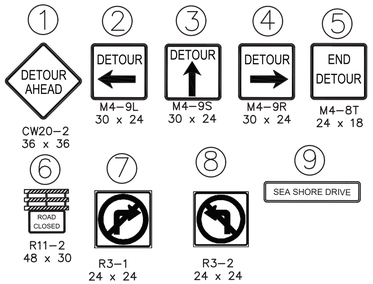


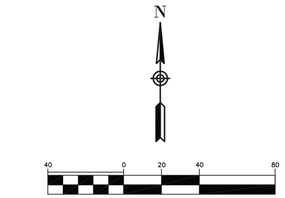




NOTES:

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2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.
3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP:75 TO TCP:80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.





SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 2 STEP 10

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER
- SPD: PLASTIC DRUM (DRUM) (SEE LEGEND SP FOR SPACING)
- SP: SPACED @ 20' C-C (ALONG WORK ZONE & TAPERS) SPACED @ 5' C-C (AT INTERSECTION & ON RADII)

NO.	DATE	REVISION	APP.

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P.E.Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON

HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 2 STEP 10

TCP SHEET: 22

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 275 OF 369	

PLOTTED: 8/13/2026 5:03 PM
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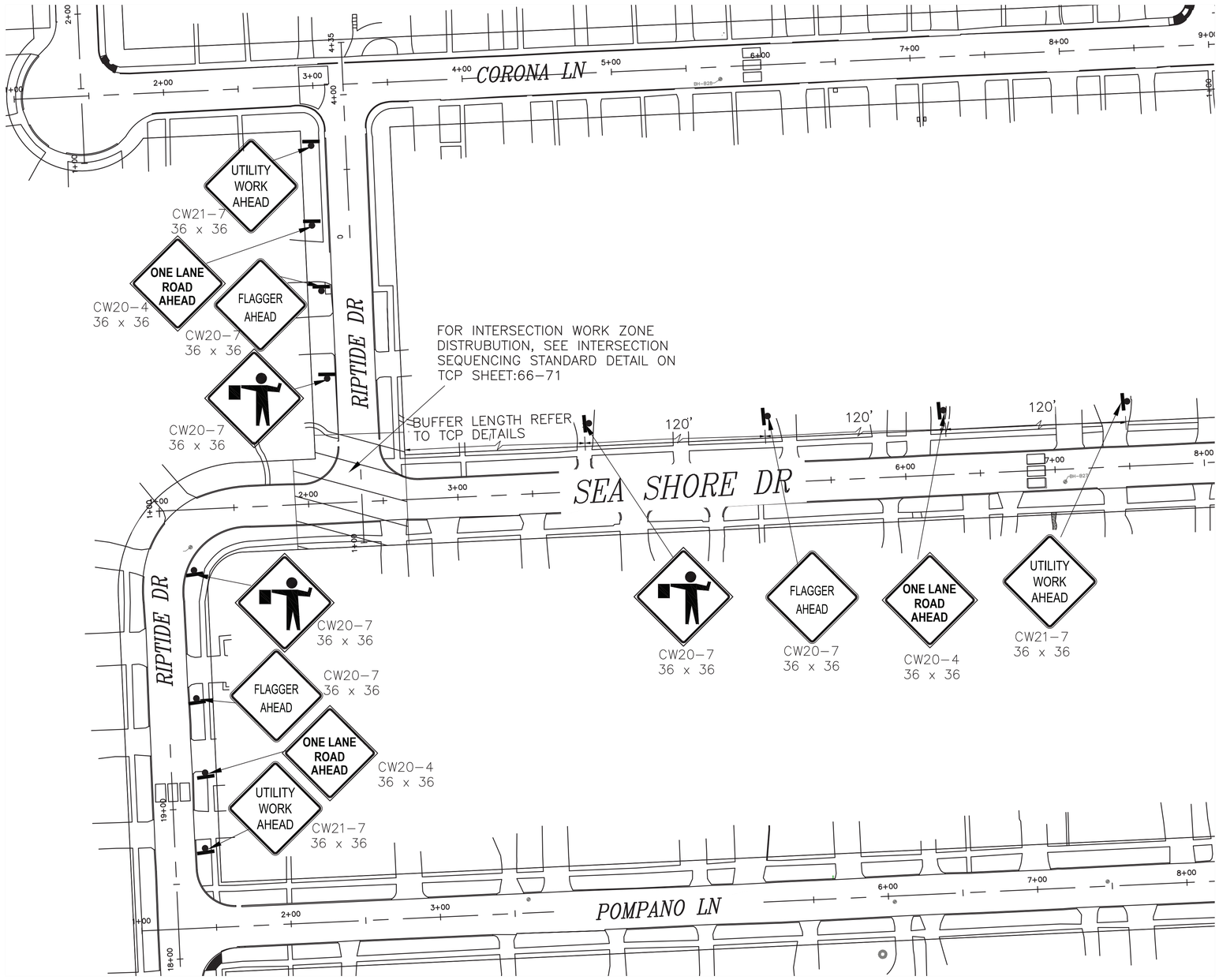
NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.

2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.

3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP:66 TO TCP:71.

4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.



N

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 2 STEP 10.1

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER
- PLASTIC DRUM (DRUM) (SEE LEGEND SP FOR SPACING)
- SPACED @ 20' C-C (ALONG WORK ZONE & TAPERS) SPACED @ 5' C-C (AT INTERSECTION & ON RADII)

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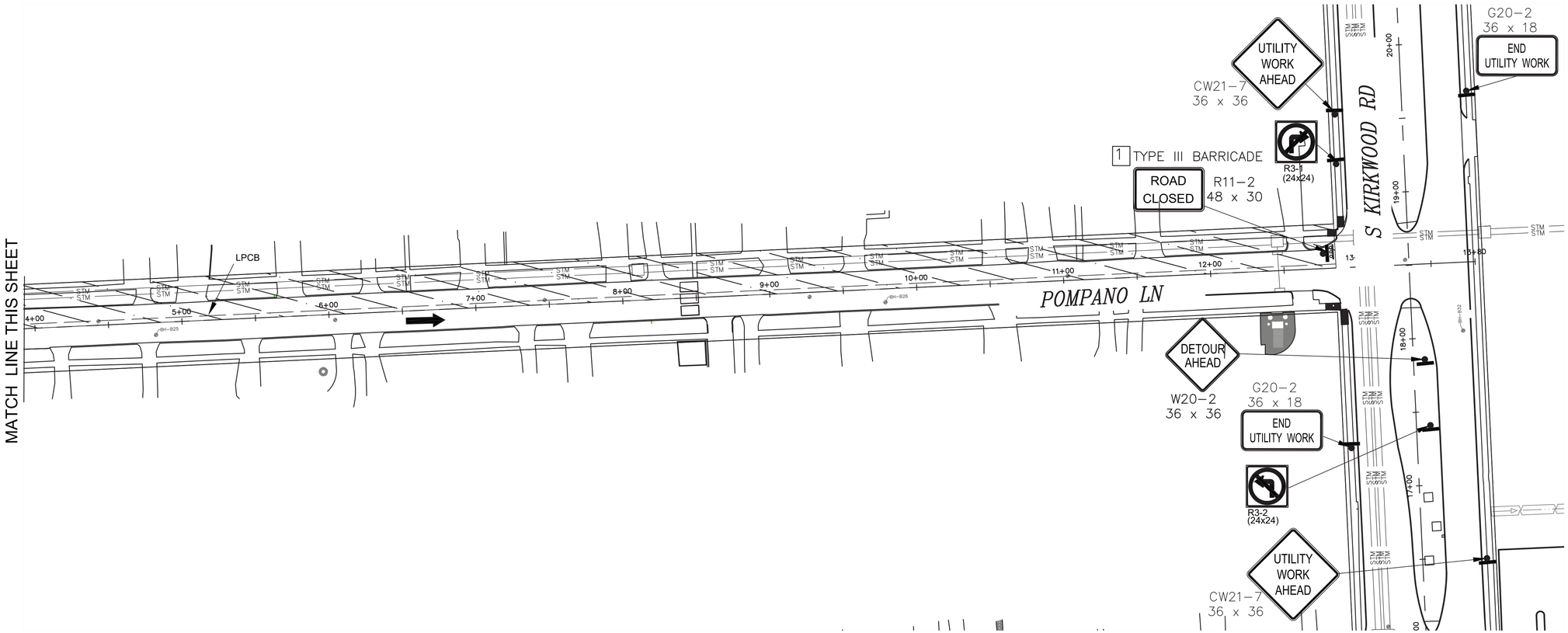
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 2 STEP 10.1

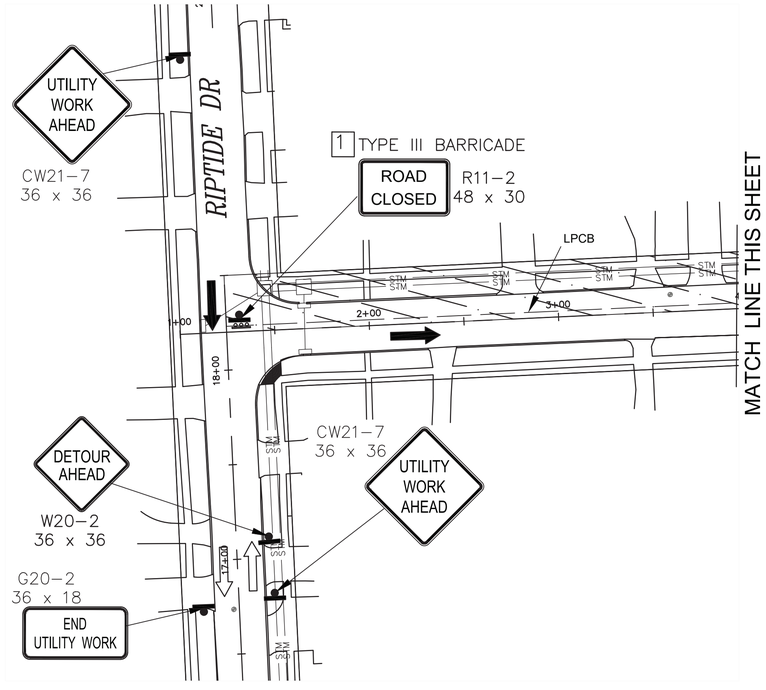
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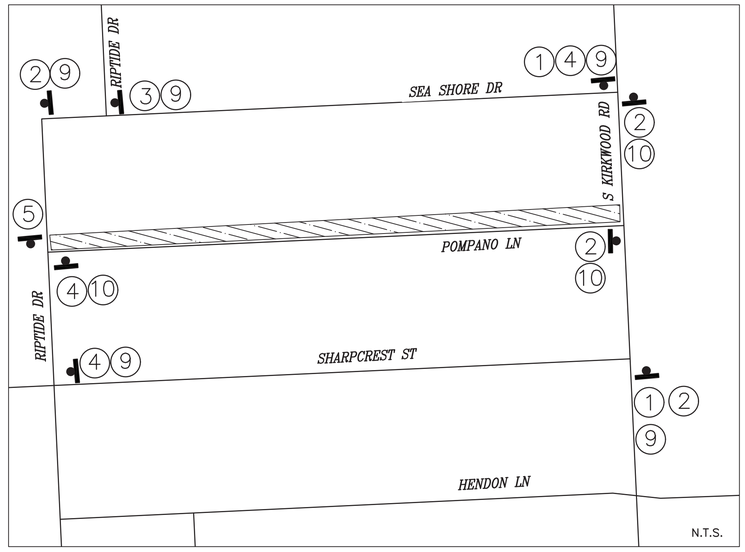
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CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 276 OF 369	

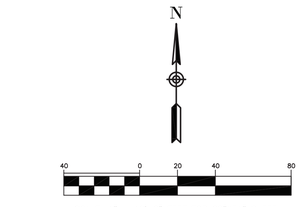
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SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

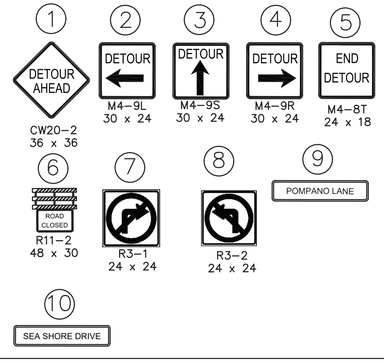
PHASE 2 STEP 11

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER
- PDD PLASTIC DRUM (DRUM) (SEE LEGEND SP FOR SPACING)
- SP SPACED @ 20' C-C (ALONG WORK ZONE & TAPERS) SPACED @ 5' C-C (AT INTERSECTION & ON RADII)

NOTES:

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3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP:75 TO TCP:80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.



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DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 2 STEP 11

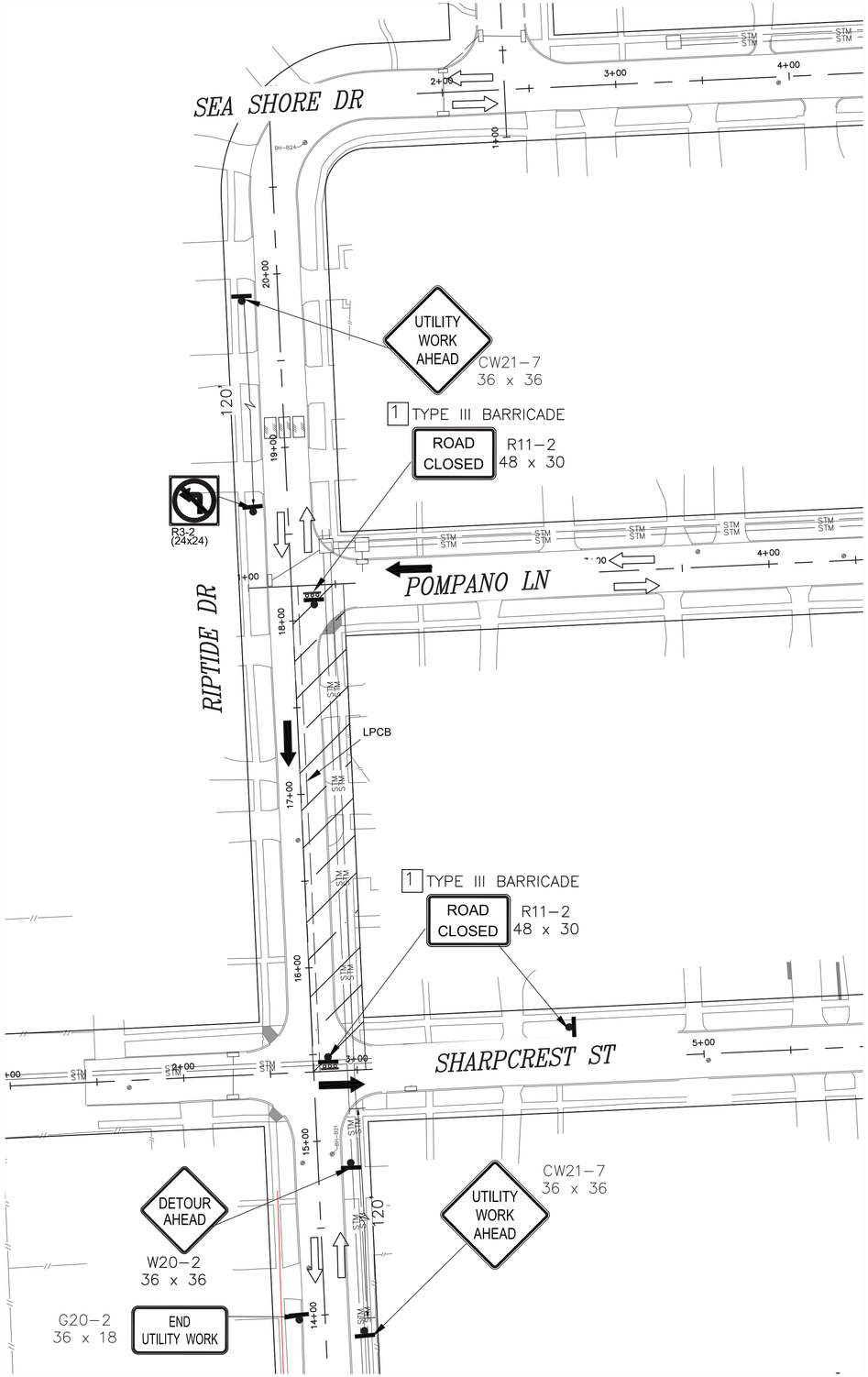
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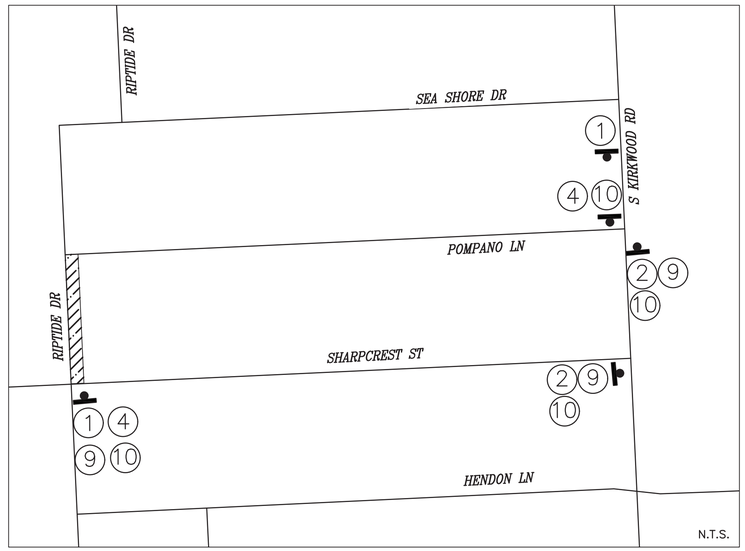
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 277 OF 369	

NO.	DATE	REVISION	APP.

PLOTTED: 8/13/2026 5:04 PM

FILE PATH: P:\ACTIVE\18PV97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase2.11.dwg





NOTES:

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N

40 0 20 40 80

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 2 STEP 12

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER
- SPD PLASTIC DRUM (DRUM) (SEE LEGEND SP FOR SPACING)
- SP SPACED @ 20' C-C (ALONG WORK ZONE & TAPERS) SPACED @ 5' C-C (AT INTERSECTION & ON RADII)

NO.	DATE	REVISION	APP.

1 DETOUR AHEAD CW20-2 36 x 36
2 DETOUR M4-9L 30 x 24
3 DETOUR M4-9S 30 x 24
4 DETOUR M4-9R 30 x 24
5 END DETOUR M4-8T 24 x 18
6 ROAD CLOSED R11-2 48 x 30
7 R3-1 24 x 24
8 R3-2 24 x 24
9 POMPANO LANE
10 RIPTIDE DRIVE NORTH

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HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 2 STEP 12

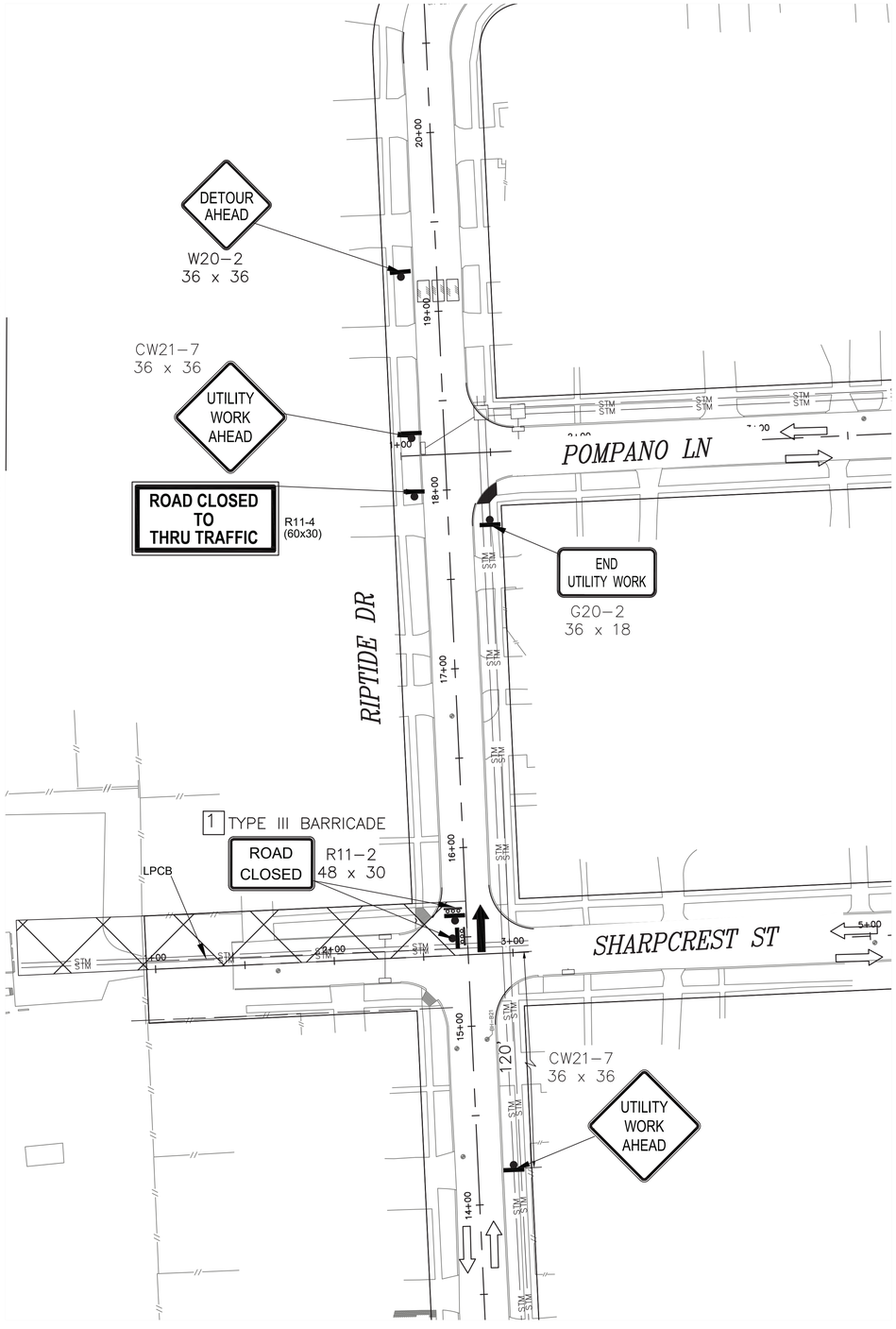
TCP SHEET: 25

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 278 OF 369	

PLOTTED: 8/13/2026 5:04 PM
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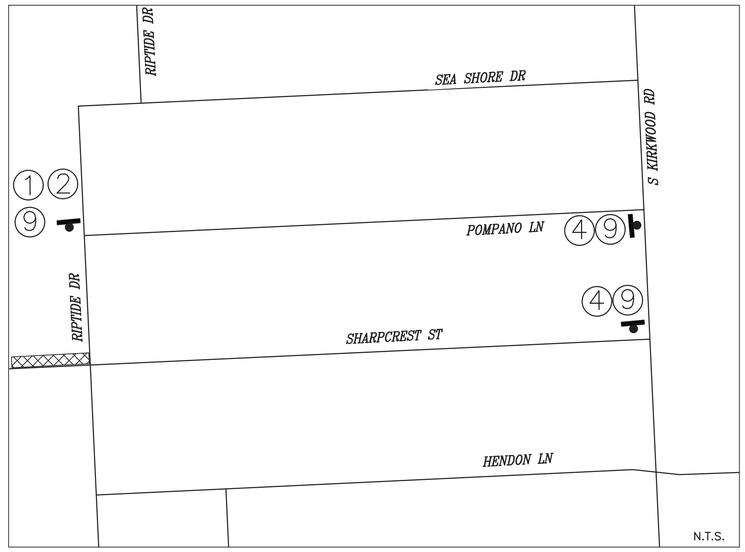
PLOTTED: 8/13/2026 5:04 PM

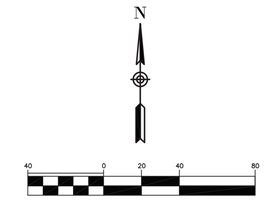
MATCH LINE THIS SHEET



NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.
2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.
3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP:75 TO TCP:80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.





SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 2 STEP 13

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER
- SPD PLASTIC DRUM (DRUM) (SEE LEGEND SP FOR SPACING)
- SP SPACED @ 20' C-C (ALONG WORK ZONE & TAPERS) SPACED @ 5' C-C (AT INTERSECTION & ON RADII)

NO.	DATE	REVISION	APP.

1 DETOUR AHEAD — CW20-2, 36 x 36
2 DETOUR — M4-9L, 30 x 24
3 DETOUR — M4-9S, 30 x 24
4 DETOUR — M4-9R, 30 x 24
5 END DETOUR — M4-8T, 24 x 18
6 ROAD CLOSED — R11-2, 48 x 30
7 — R3-1, 24 x 24
8 — R3-2, 24 x 24
9 SHARPCREST ST

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P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
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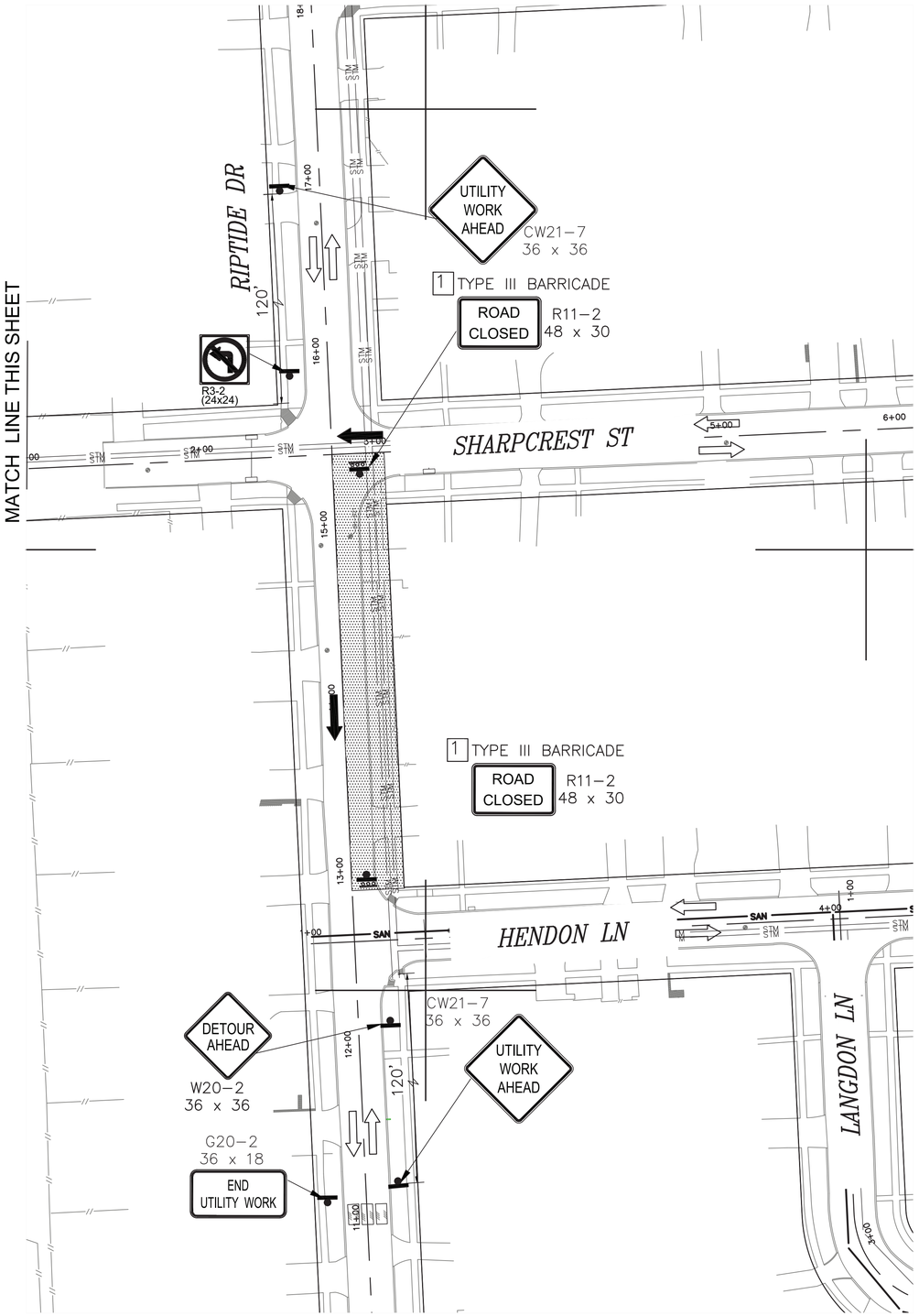
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

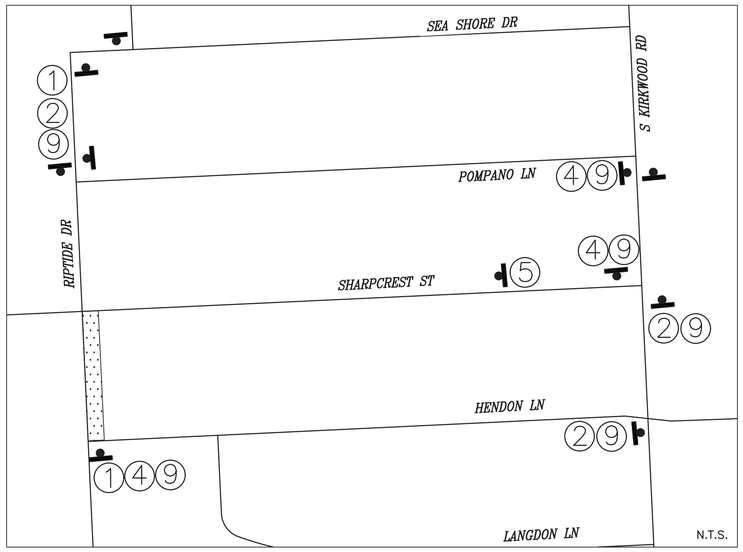
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 2 STEP 13

TCP SHEET: 26

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 279 OF 369	

FILE PATH: P:\ACTIVE\18Pw97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase2.13.dwg





NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.
2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.
3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP: 75 TO TCP: 80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

N

40 0 20 40 80

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 2 STEP 14

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER
- NPD PLASTIC DRUM (DRUM) (SEE LEGEND SP FOR SPACING)
- SP SPACED @ 20' C-C (ALONG WORK ZONE & TAPERS) SPACED @ 5' C-C (AT INTERSECTION & ON RADII)

NO.	DATE	REVISION	APP.

1 DETOUR AHEAD CW20-2 36 x 36
2 DETOUR M4-9L 30 x 24
3 DETOUR M4-9S 30 x 24
4 DETOUR M4-9R 30 x 24
5 END DETOUR M4-8T 24 x 18
6 ROAD CLOSED R11-2 48 x 30
7 R3-1 24 x 24
8 R3-2 24 x 24
9 SHARPCREST ST

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P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
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ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

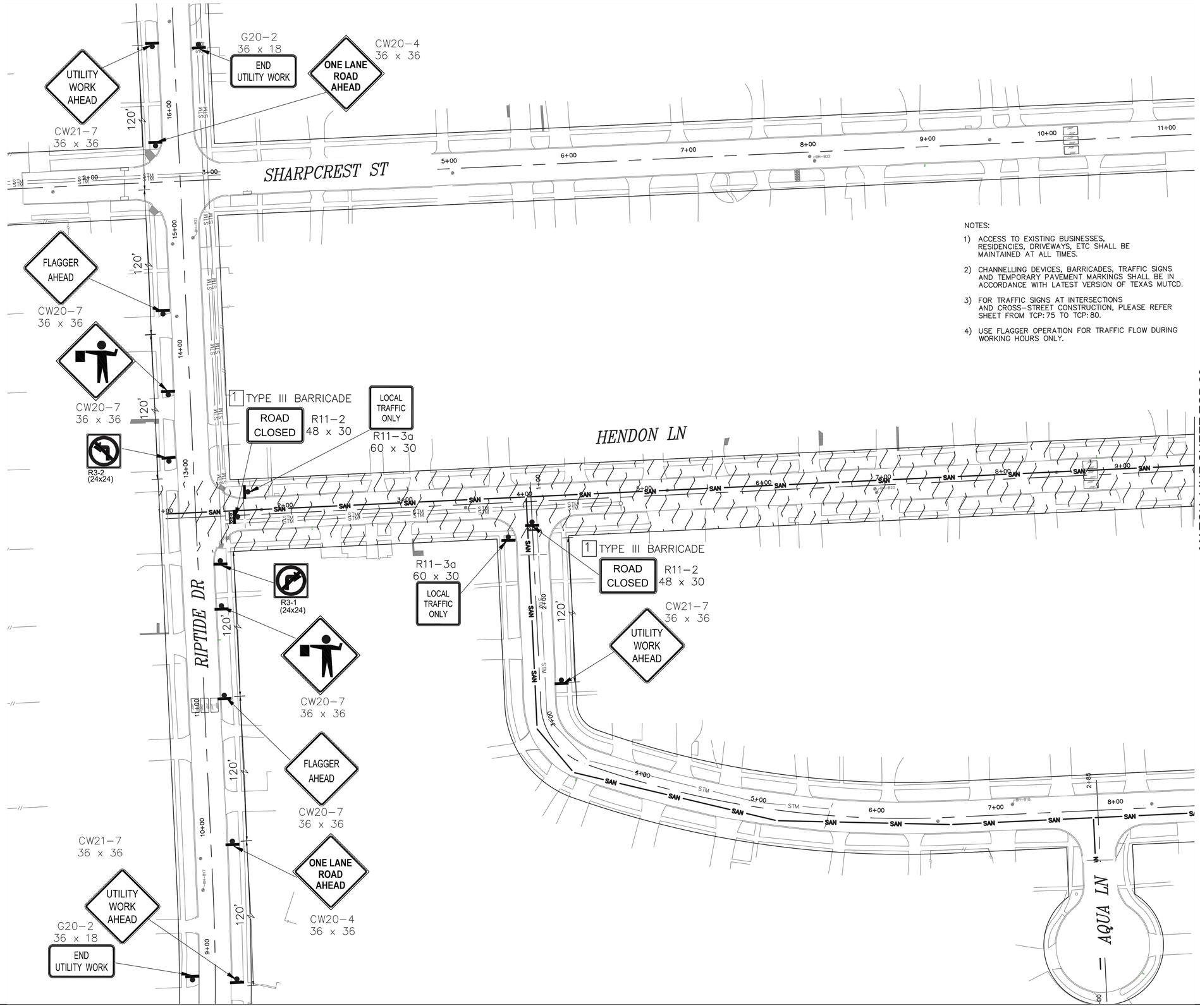
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 2 STEP 14

TCP SHEET: 27

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 280 OF 369	

PLOTTED: 8/13/2026 5:04 PM

FILE PATH: P:\ACTIVE\18Pw97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase2.14.dwg



NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.
2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.
3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP: 75 TO TCP: 80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

PHASE 2 STEP 15

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER
- SPD: PLASTIC DRUM (DRUM) (SEE LEGEND SP FOR SPACING)
- SP: SPACED @ 20' C-C (ALONG WORK ZONE & TAPERS) SPACED @ 5' C-C (AT INTERSECTION & ON RADII)

NO.	DATE	REVISION	APP.

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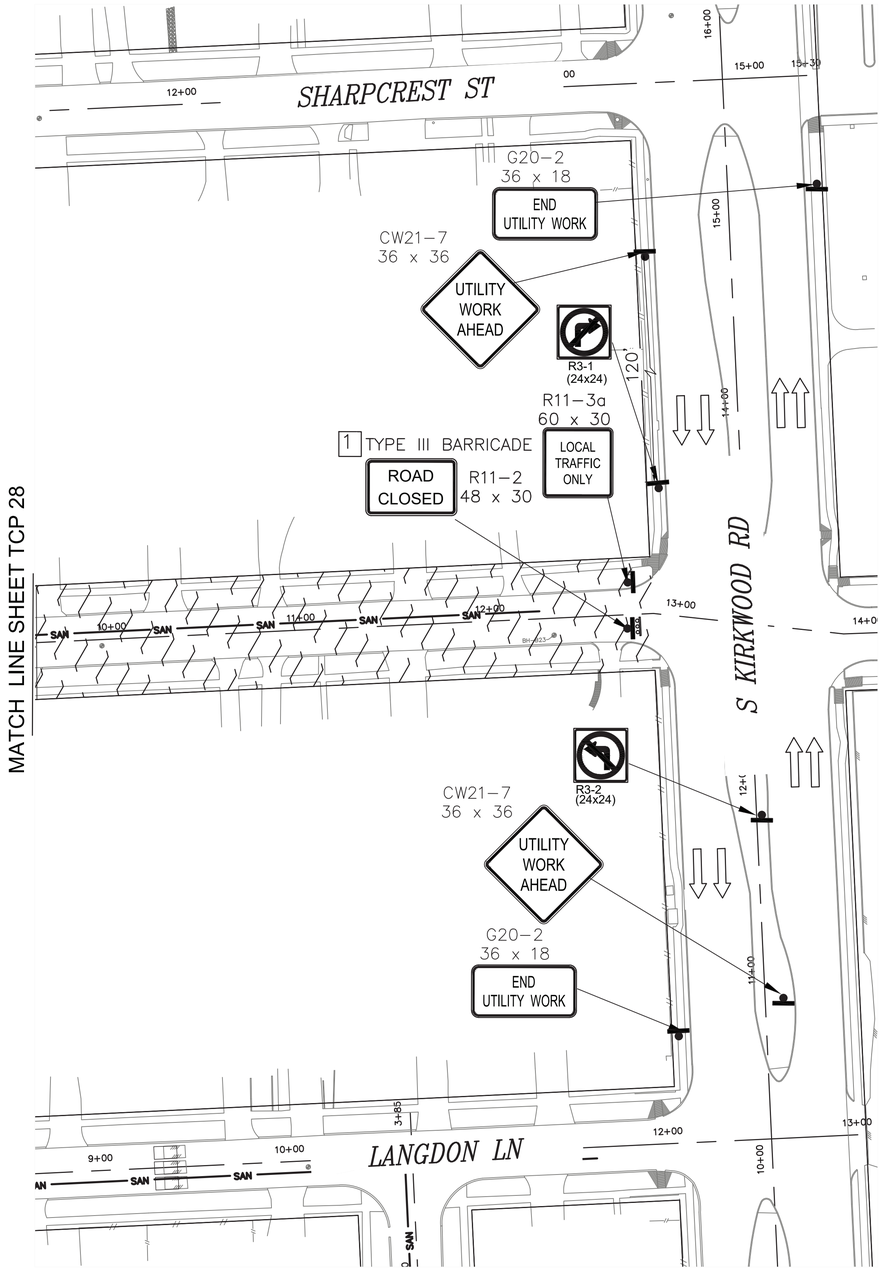
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

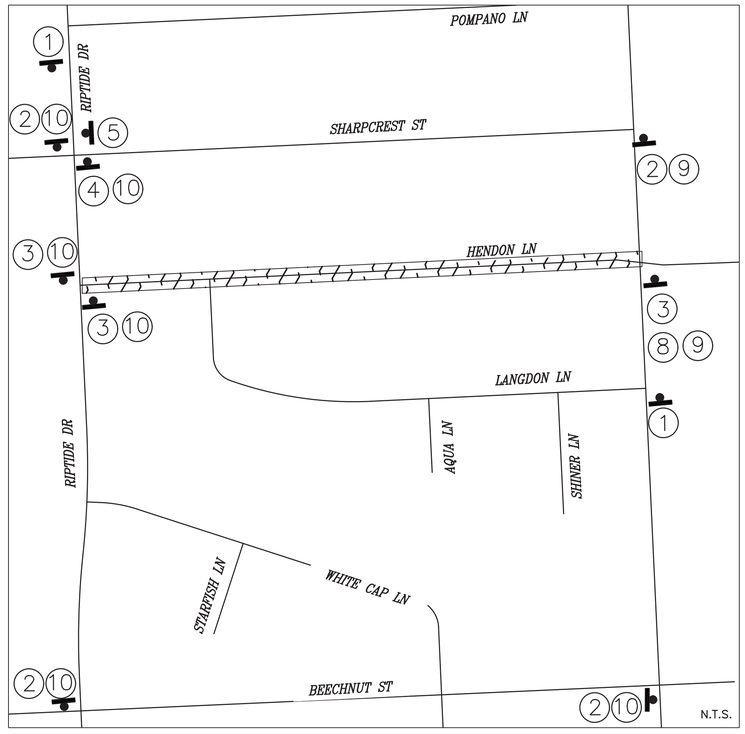
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 2 STEP 15
SHEET 1 OF 2

TCP SHEET: 28

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 281 OF 369	

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FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase2.15.dwg





NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.

2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.

3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP:66 TO TCP:71.

4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

1 DETOUR AHEAD — CW20-2 36 x 36
2 DETOUR — M4-9L 30 x 24
3 DETOUR — M4-9S 30 x 24
4 DETOUR — M4-9R 30 x 24
5 END DETOUR — M4-8T 24 x 18
6 ROAD CLOSED — R11-2 48 x 30
7 R3-1 24 x 24
8 R3-2 24 x 24
9 RIPTIDE DRIVE
10 S KIRKWOOD RD

N

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 2 STEP 15

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER
- SPD: PLASTIC DRUM (DRUM) (SEE LEGEND SP FOR SPACING)
- SP: SPACED @ 20' C-C (ALONG WORK ZONE & TAPERS) SPACED @ 5' C-C (AT INTERSECTION & ON RADII)

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P.E. Reg No: 130533
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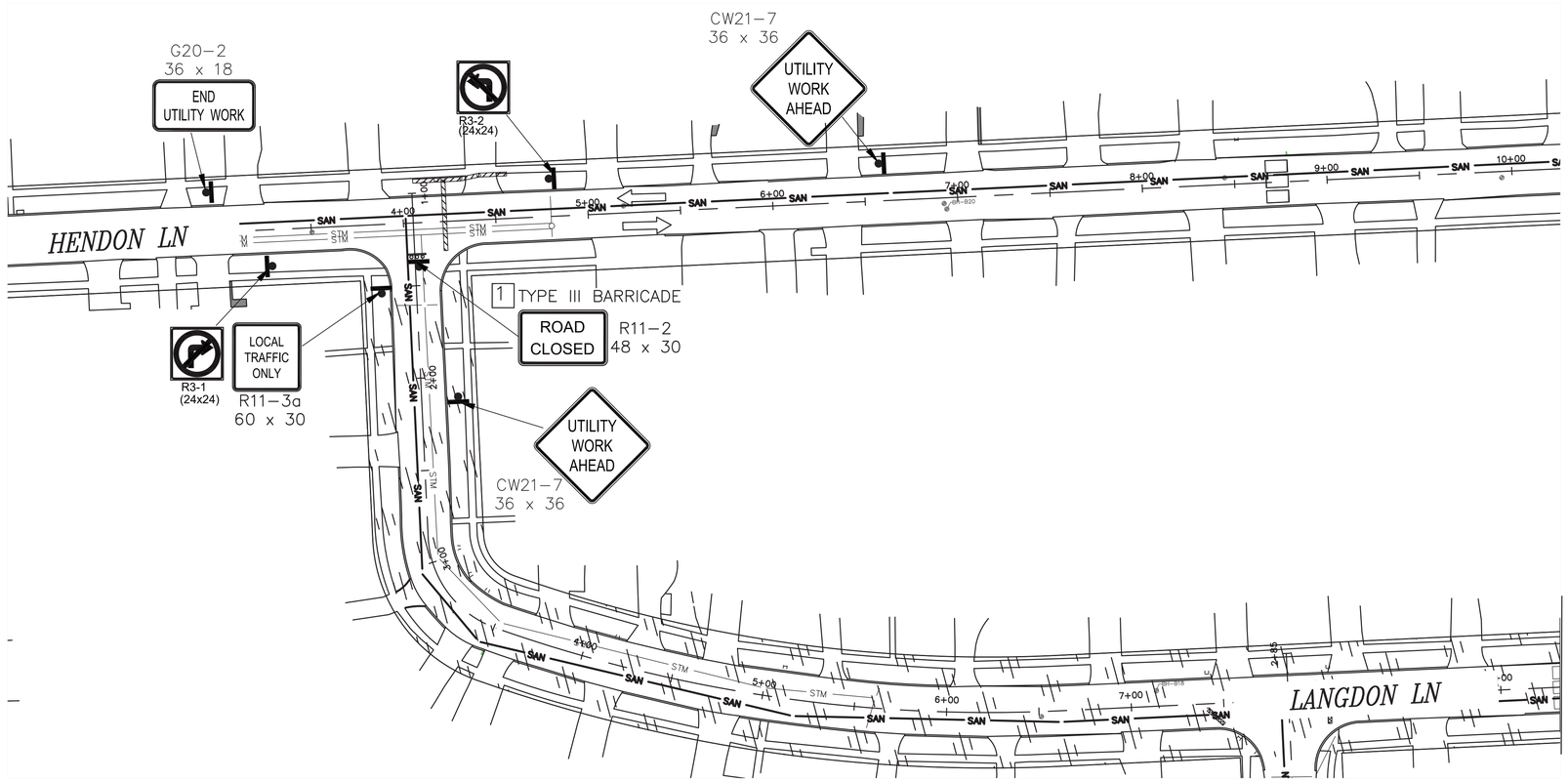
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

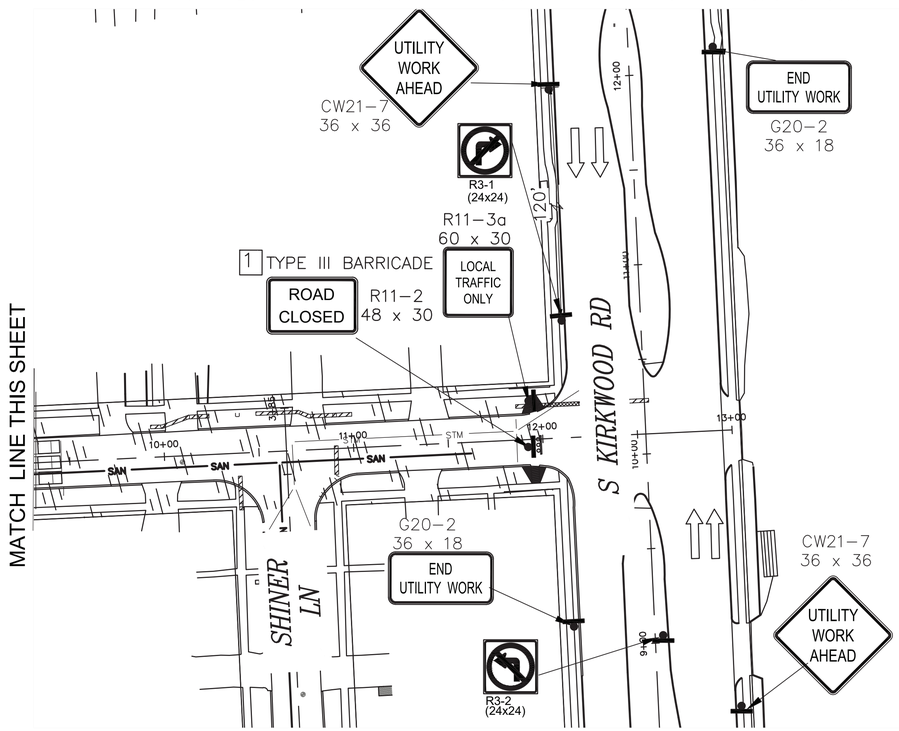
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 2 STEP 15
SHEET 2 OF 2

TCP SHEET: 29

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 282 OF 369	

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FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase2.15.dwg





N

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 2 STEP 16

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER
- SPDI PLASTIC DRUM (DRUM) (SEE LEGEND SP FOR SPACING)
- SP SPACED @ 20' C-C (ALONG WORK ZONE & TAPERS) SPACED @ 5' C-C (AT INTERSECTION & ON RADII)

NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.
2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.
3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP:75 TO TCP:80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

NO.	DATE	REVISION	APP.

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P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
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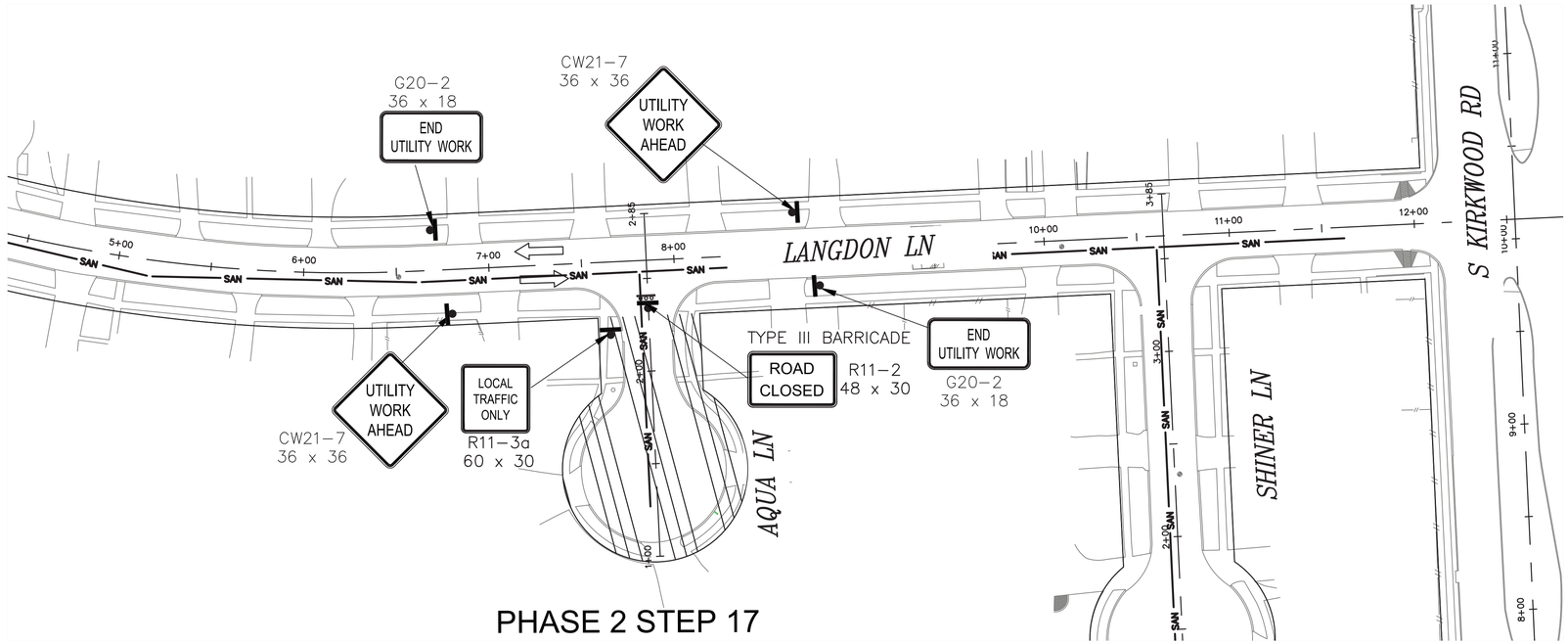
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 2 STEP 16

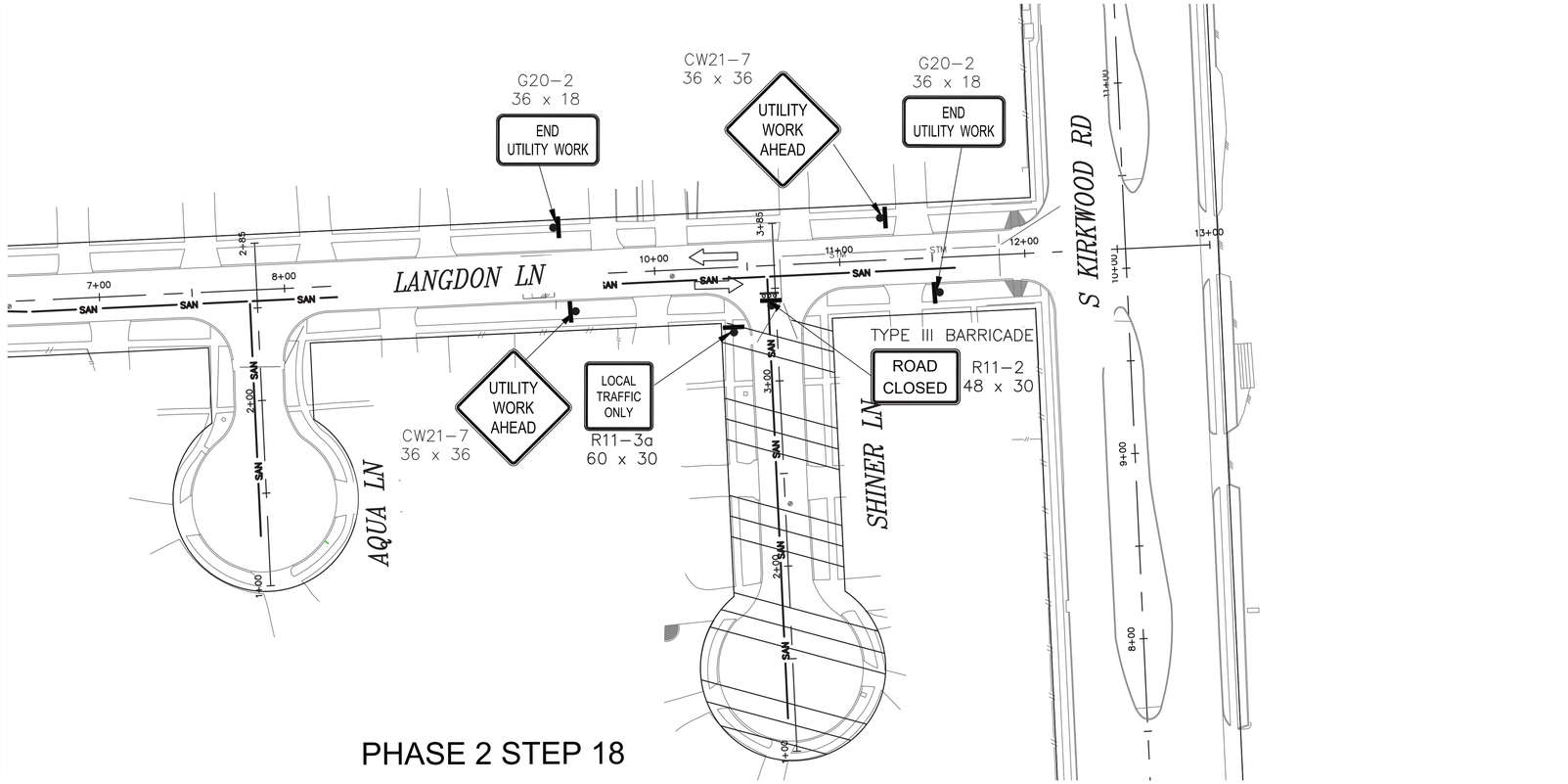
TCP SHEET: 29

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 283 OF 369	

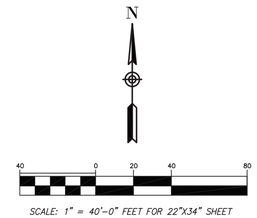
PLOTTED: 8/13/2026 5:05 PM
FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase2.16.dwg



PHASE 2 STEP 17



PHASE 2 STEP 18



SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 2 STEP 17-18

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER
- PD PLASTIC DRUM (DRUM) (SEE LEGEND SP FOR SPACING)
- SP SPACED @ 20' C-C (ALONG WORK ZONE & TAPERS) SPACED @ 5' C-C (AT INTERSECTION & ON RADII)

NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.
2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.
3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP:75 TO TCP:80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

NO.	DATE	REVISION	APP.

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

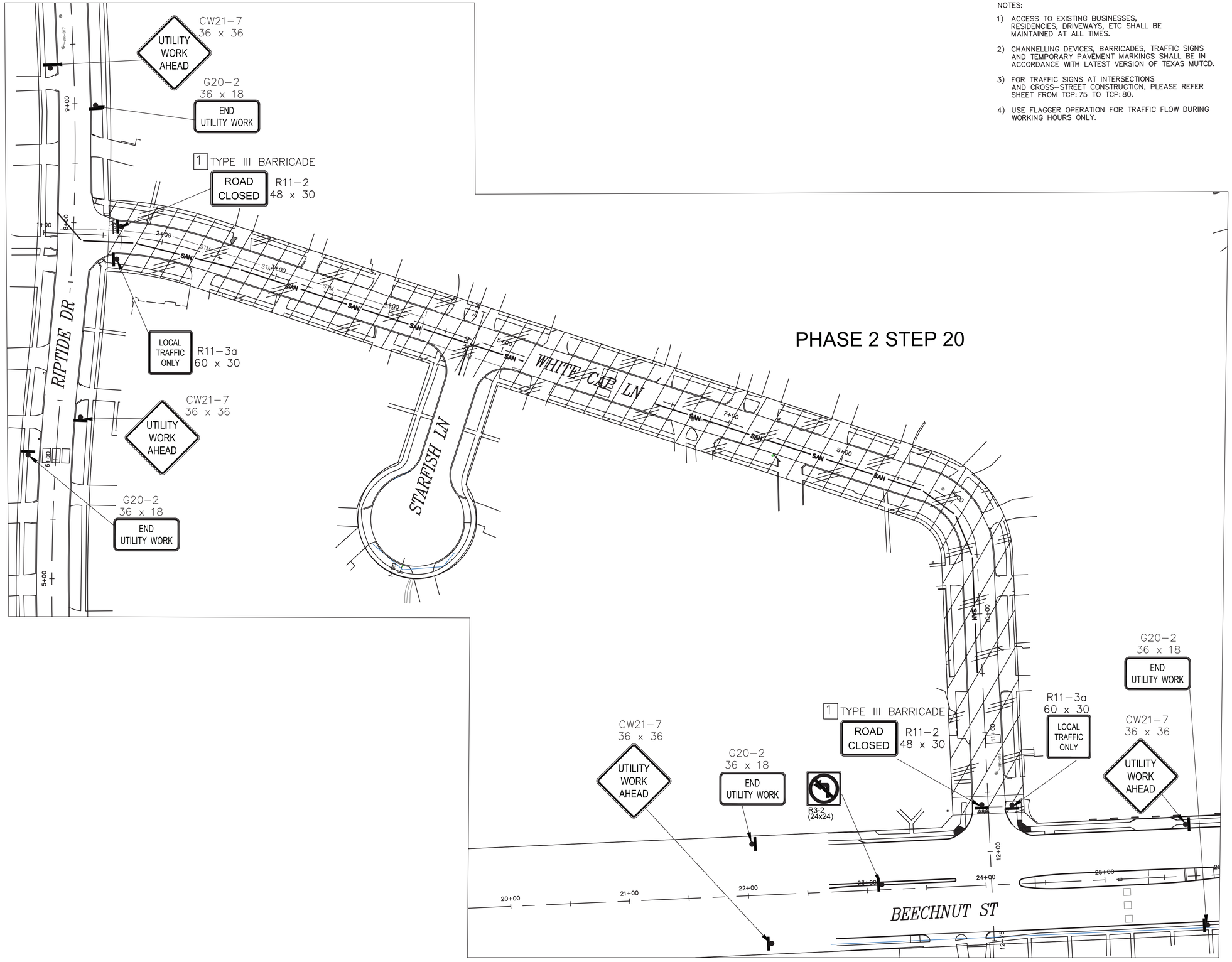
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HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 2 STEP 17-18

TCP SHEET: 31

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 284 OF 369	

PLOTTED: 8/13/2026 5:05 PM
FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase2.17-18.dwg



NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.
2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.
3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP: 75 TO TCP: 80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

N

40 0 20 40 80

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER
- SPD PLASTIC DRUM (DRUM) (SEE LEGEND SP FOR SPACING)
- SP SPACED @ 20' C-C (ALONG WORK ZONE & TAPERS) SPACED @ 5' C-C (AT INTERSECTION & ON RADII)

NO.	DATE	REVISION	APP.

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DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

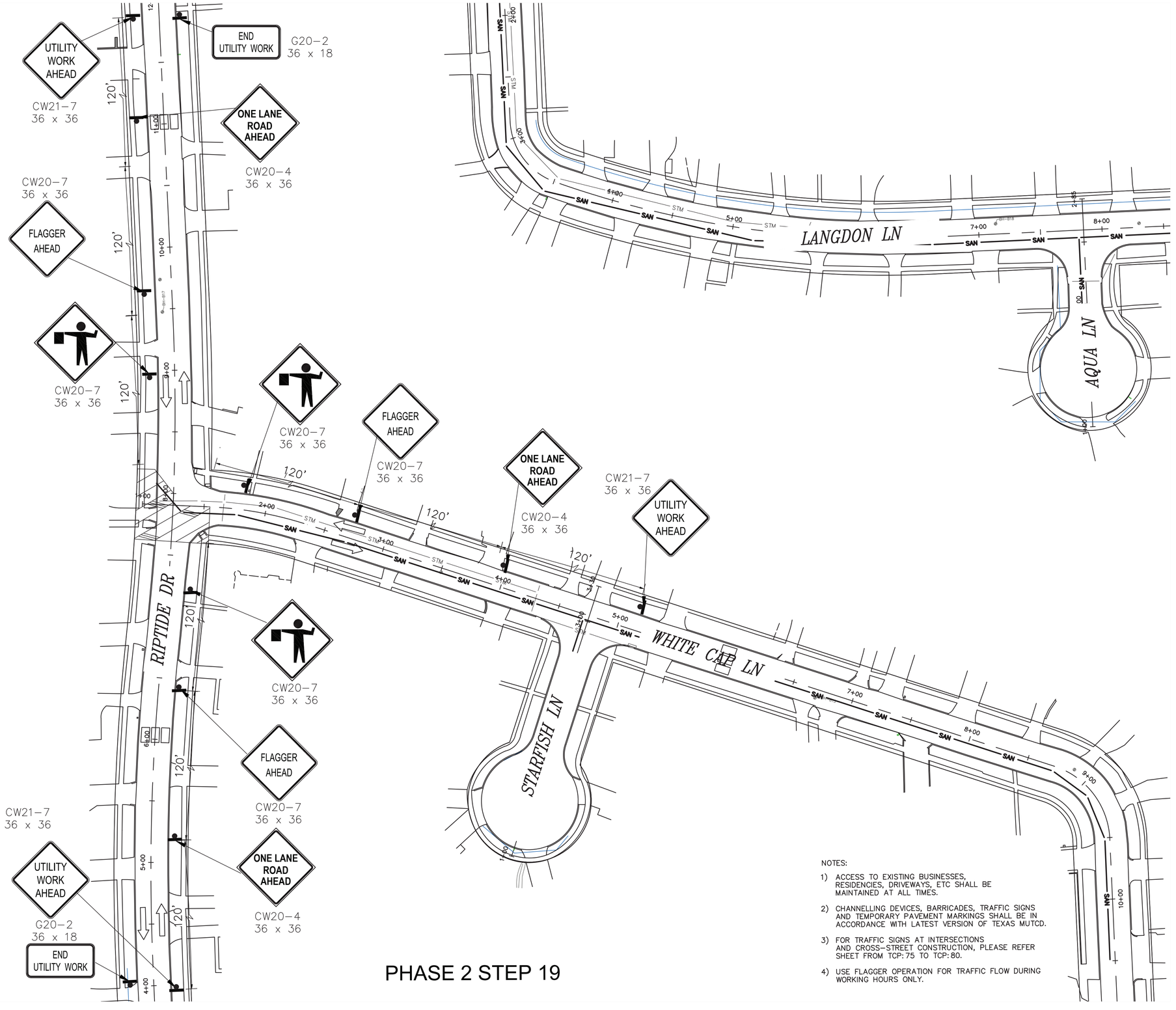
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 2 STEP 20

TCP SHEET: 33

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 285 OF 369	

PLOTTED: 8/13/2026 5:05 PM

FILE PATH: P:\ACTIVE\18Pv97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase2.19-20.dwg



PHASE 2 STEP 19

NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.
2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.
3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP: 75 TO TCP: 80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

N

40 0 20 40 80

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER
- PD PLASTIC DRUM (DRUM) (SEE LEGEND SP FOR SPACING)
- SP SPACED @ 20' C-C (ALONG WORK ZONE & TAPERS) SPACED @ 5' C-C (AT INTERSECTION & ON RADII)

NO.	DATE	REVISION	APP.

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

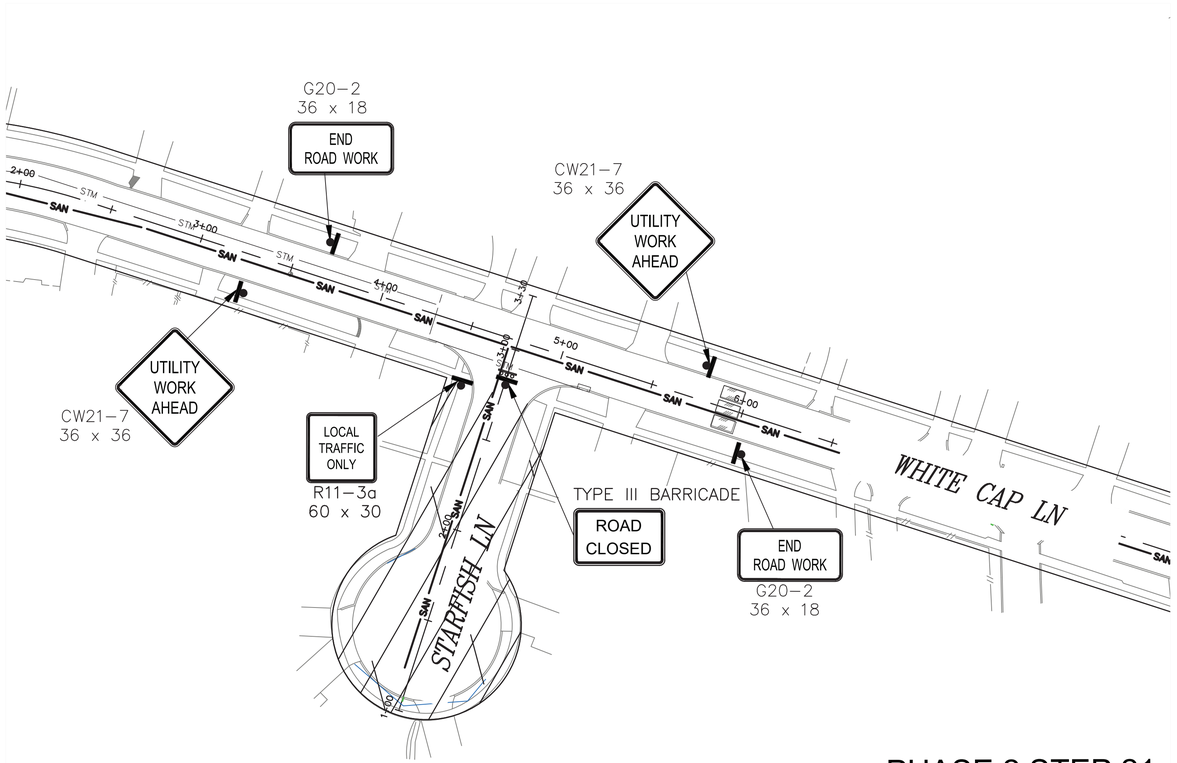
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 2 STEP 19

TCP SHEET: 32

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 286 OF 369	

PLOTTED: 8/13/2026 5:05 PM

FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase2.19-20.dwg



N

40 0 20 40 80

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER
- SPD SP PLASTIC DRUM (DRUM) (SEE LEGEND SP FOR SPACING)
  SPACED @ 20' C-C (ALONG WORK ZONE & TAPERS)
  SPACED @ 5' C-C (AT INTERSECTION & ON RADII)

NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.
2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.
3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP: 75 TO TCP: 80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

NO.	DATE	REVISION	APP.

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

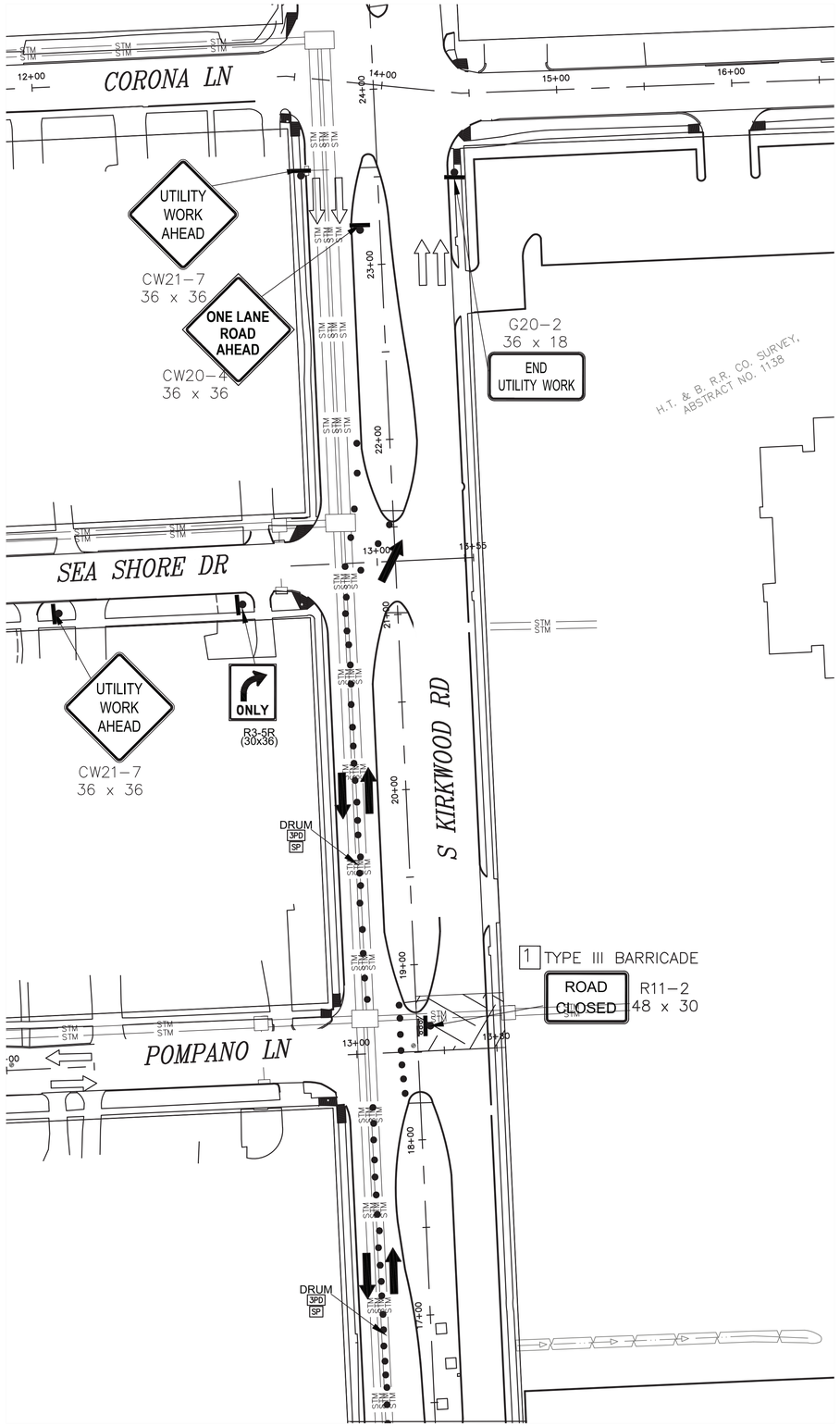
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

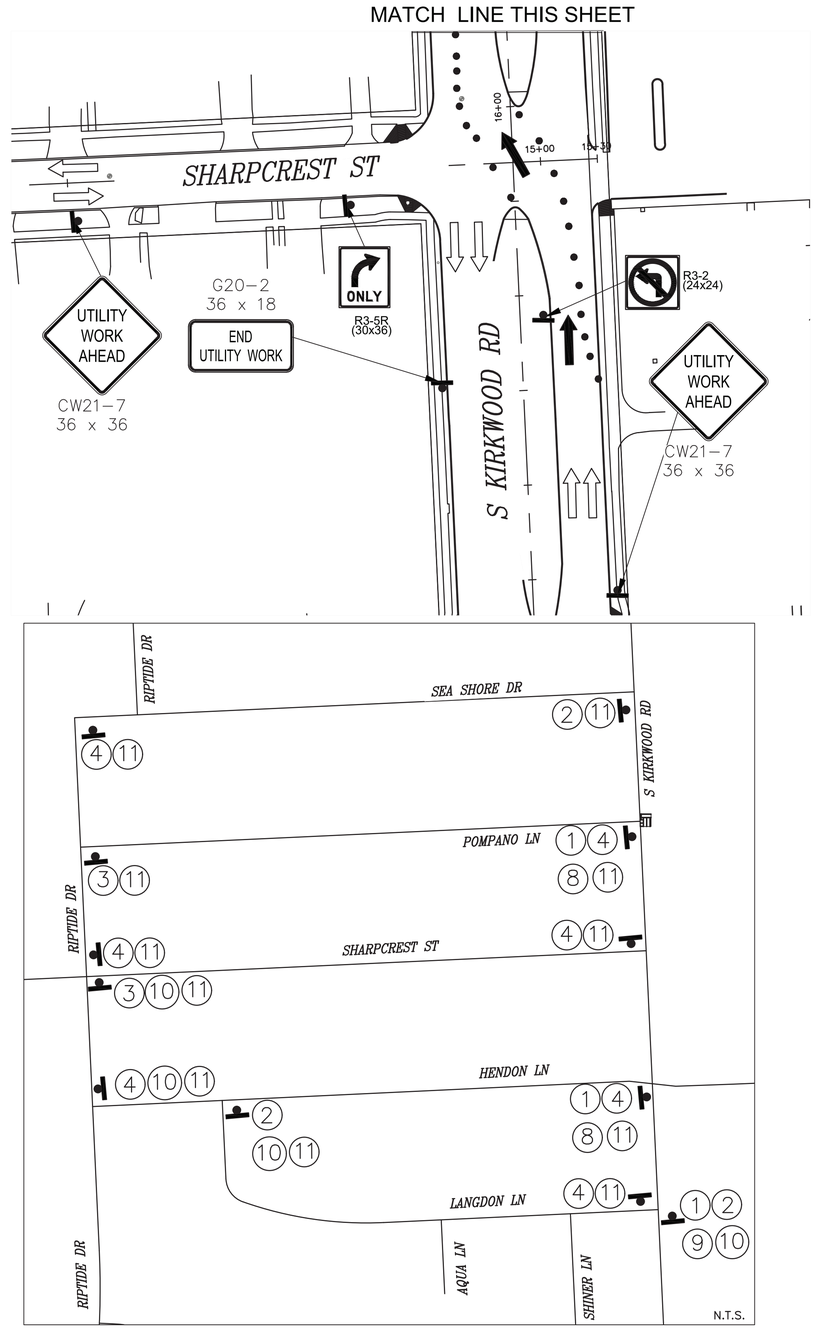
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 2 STEP 21

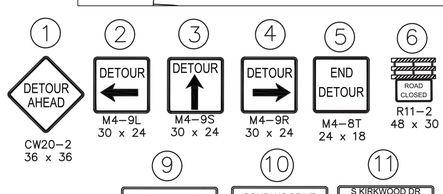
TCP SHEET: 34

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 287 OF 369	

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FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase2.21.dwg



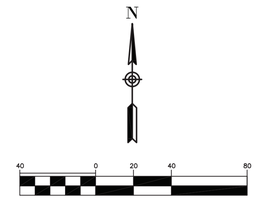




NOTES:

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2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.
3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP:75 TO TCP:80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

NO.	DATE	REVISION	APP.



PHASE 2 STEP 22

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER
- SPD PLASTIC DRUM (DRUM) (SEE LEGEND SP FOR SPACING)
- SP SPACED @ 20' C-C (ALONG WORK ZONE & TAPERS) SPACED @ 5' C-C (AT INTERSECTION & ON RADII)

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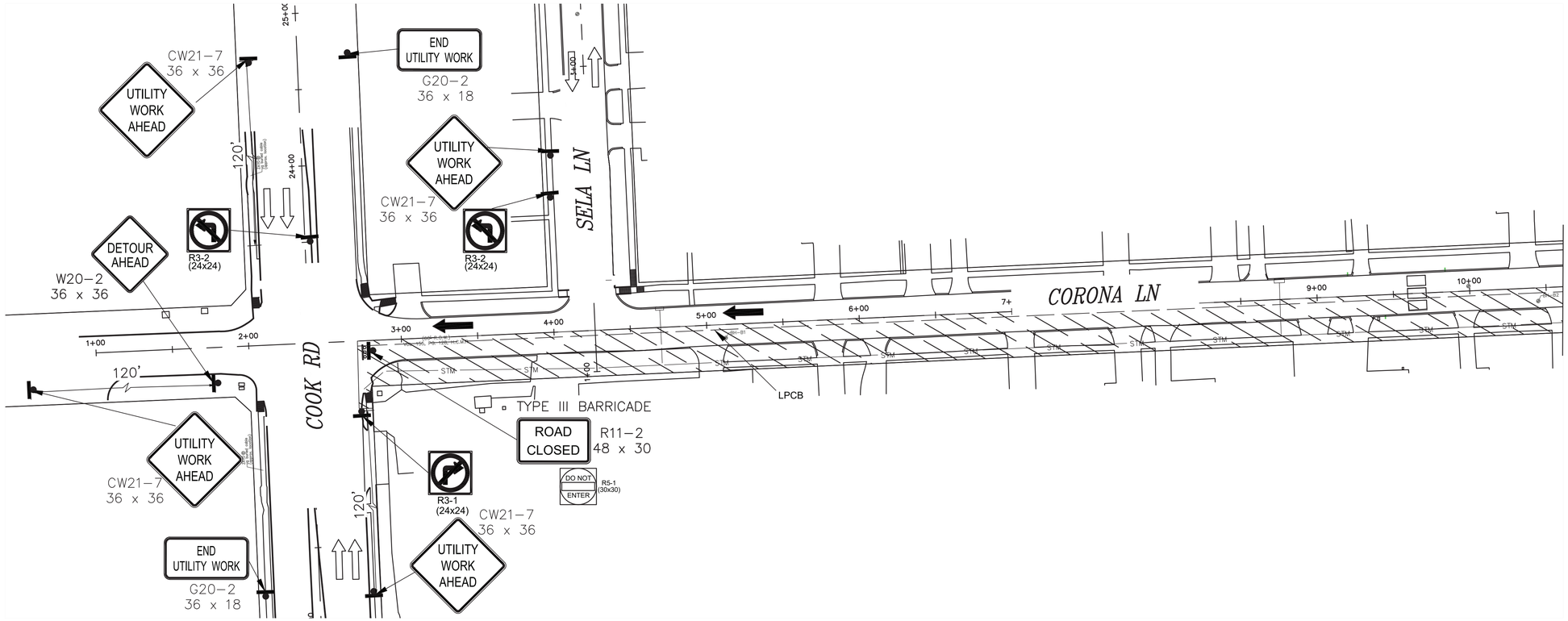
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TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 2 STEP 22

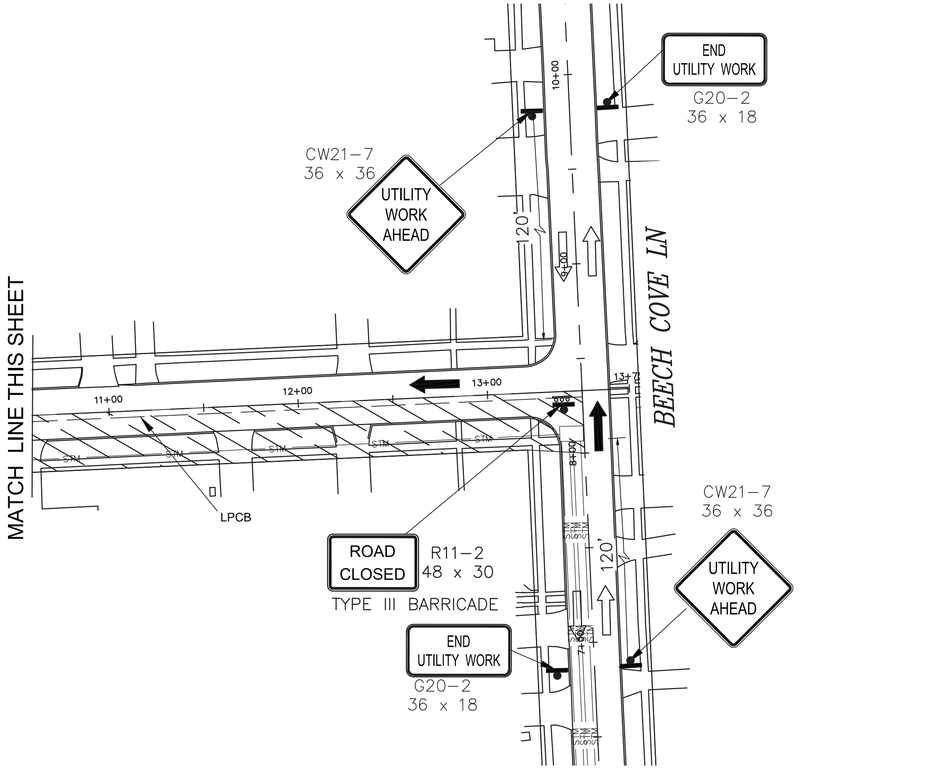
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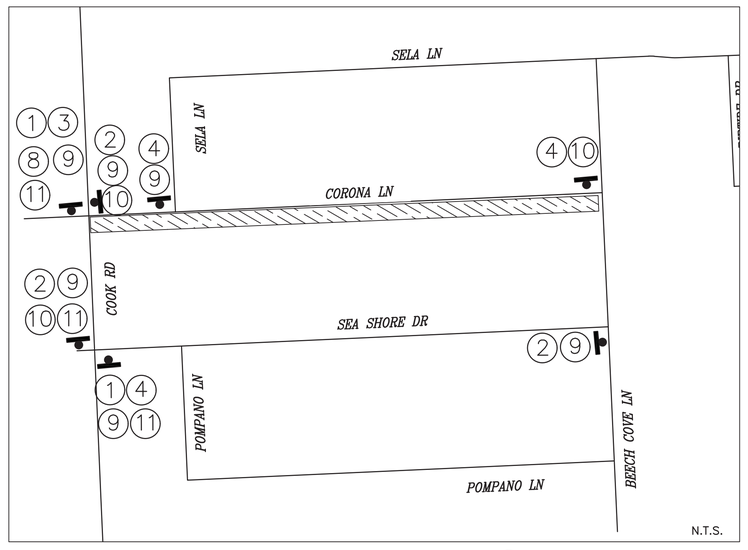
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DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 288 OF 369	

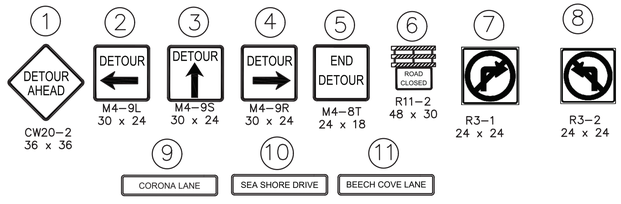
PLOTTED: 8/13/2026 5:06 PM

FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase2.22.dwg









NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.

2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.

3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP: 75 TO TCP: 80.

4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

NO.	DATE	REVISION	APP.

N

40 0 20 40 80

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 3 STEP 1

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

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P.E. Reg No: 130533
DATE: AUGUST 2026

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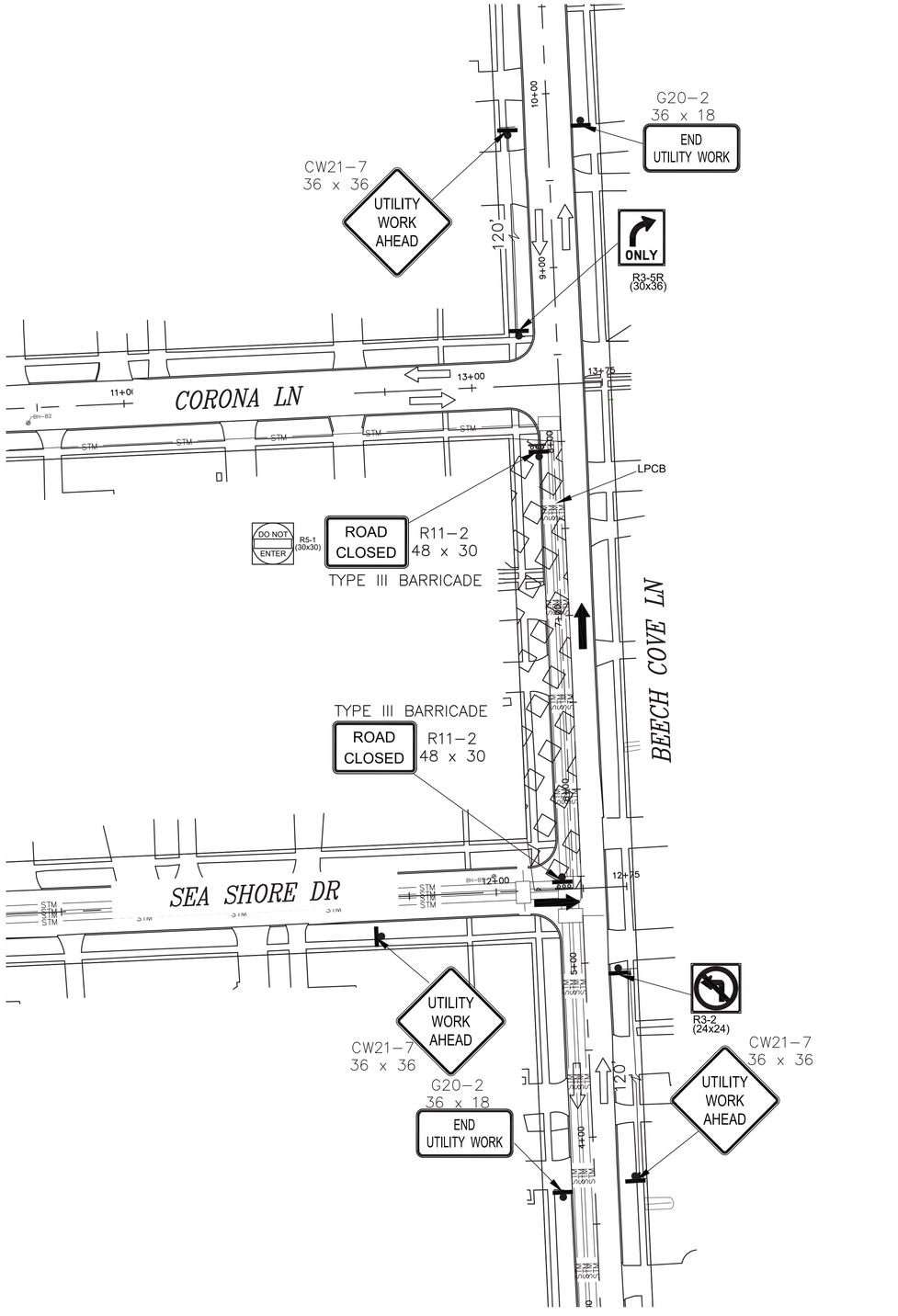
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

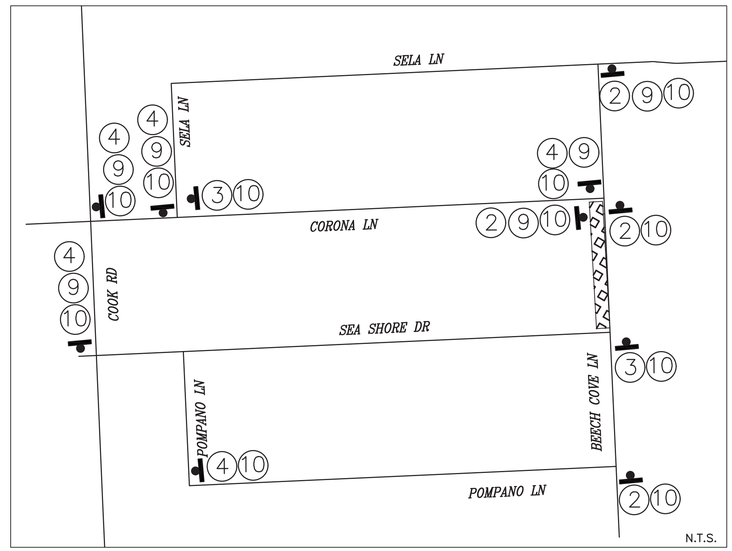
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 3 STEP 1

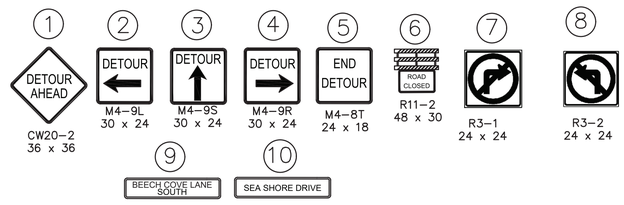
TCP SHEET: 36

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
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SHEET NO. 289 OF 369	

PLOTTED: 8/13/2026 5:06 PM
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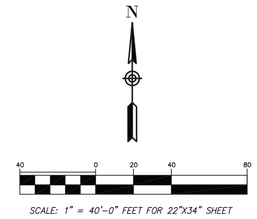






NOTES:

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4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.



SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 3 STEP 2

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

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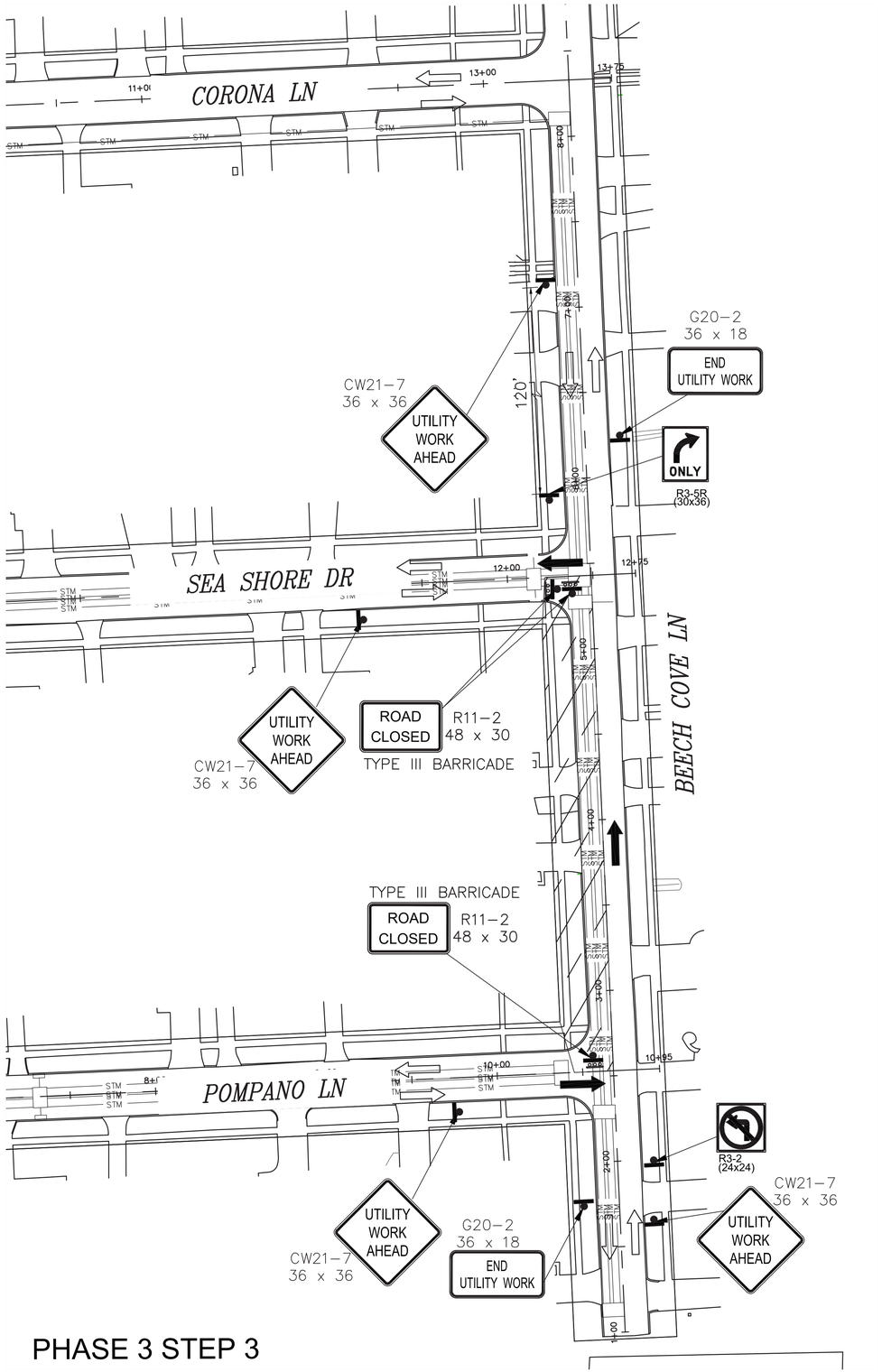
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 3 STEP 2

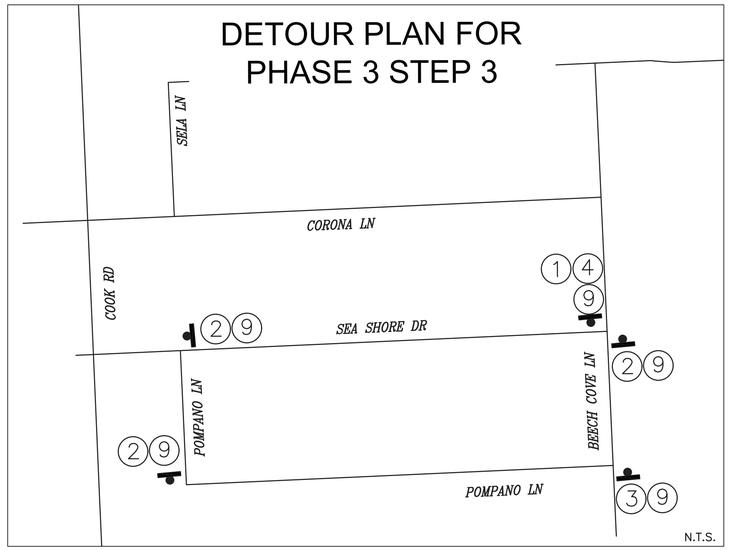
TCP SHEET: 37

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 290 OF 369	

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FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase3_2.dwg



PHASE 3 STEP 3



NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.
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4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

N

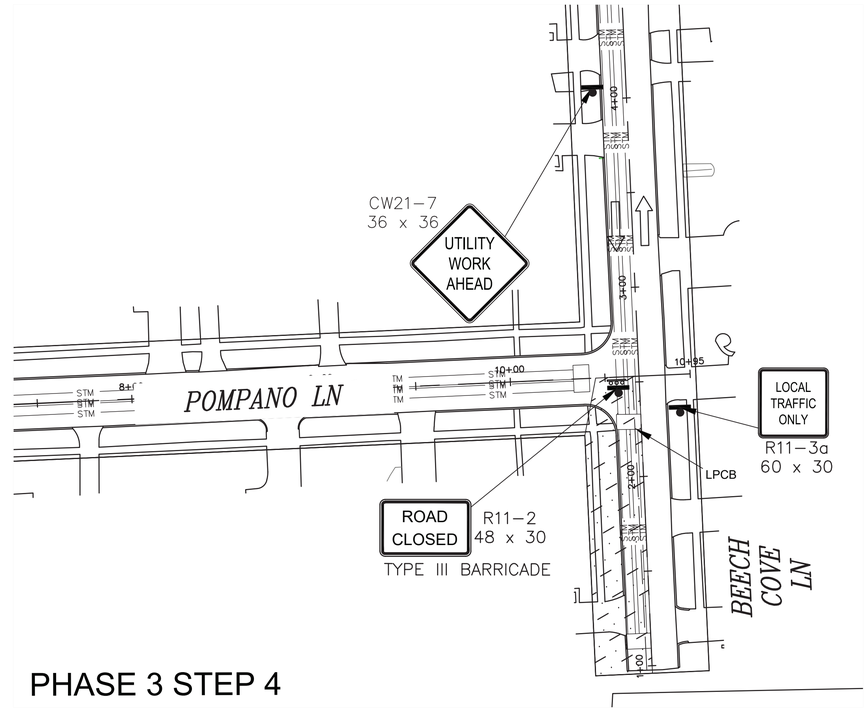
40 0 20 40 80

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 3 STEP 3-4

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER



PHASE 3 STEP 4

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P.E.Reg No: 130533
DATE: AUGUST 2026

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HOUSTON PUBLIC WORKS

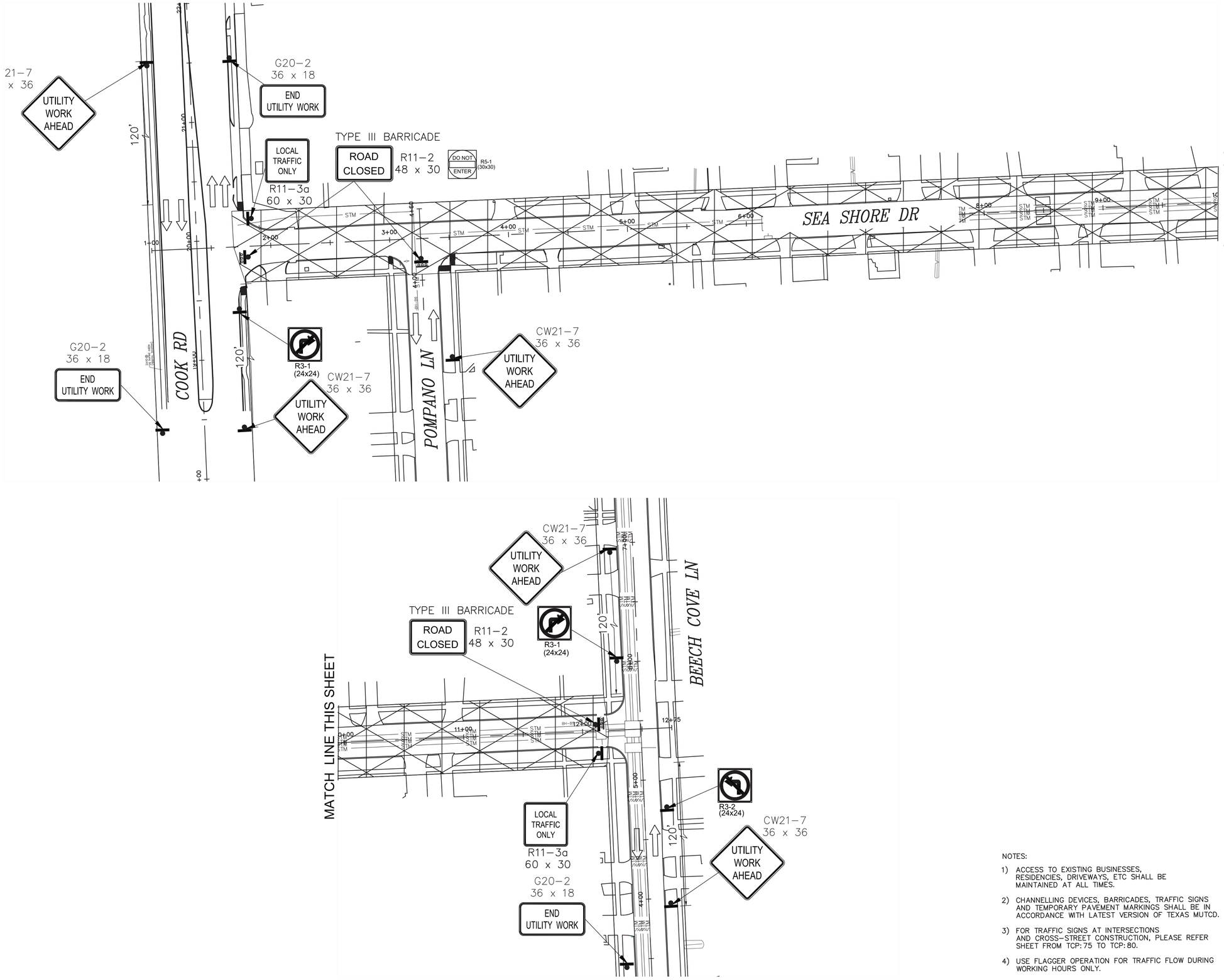
ALIEF FOREST SOUTH AREA
PAVING AND DRAINAGE
IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 3 STEP 3-4

TCP SHEET: 38

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 291 OF 369	

PLOTTED: 8/13/2026 5:06 PM

FILE PATH: P:\ACTIVE\18Proj97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase3.3-4.dwg



N

40 0 20 40 80

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 3 STEP 5

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

NOTES:

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4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

NO.	DATE	REVISION	APP.

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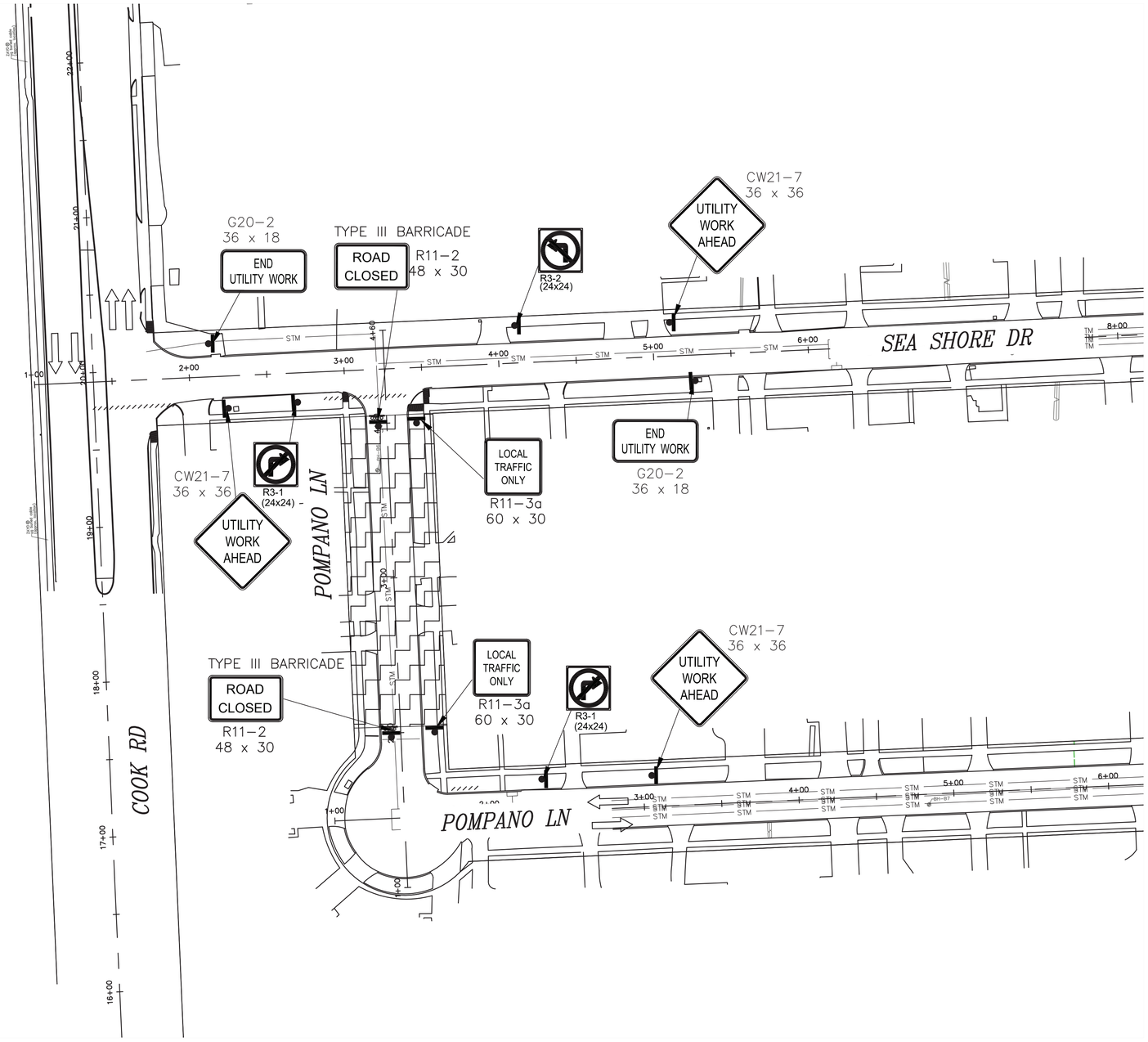
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 3 STEP 5

TCP SHEET: 39

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 292 OF 369	

PLOTTED: 8/13/2026 5:07 PM
FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase3.5.dwg



N

40 0 20 40 80

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 3 STEP 6

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

NO.	DATE	REVISION	APP.

NOTES:

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2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.
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4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

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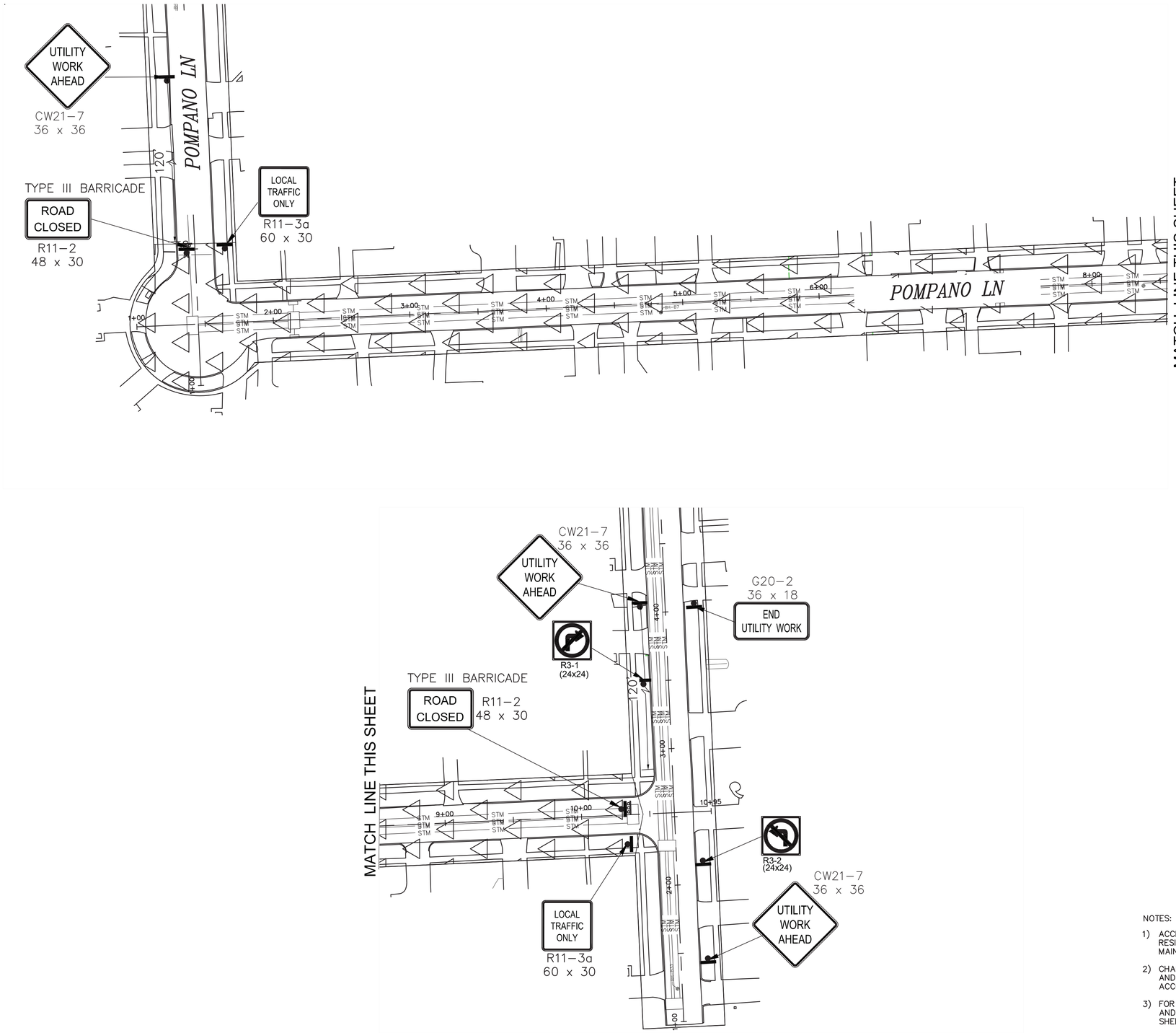
ALIEF FOREST SOUTH AREA
PAVING AND DRAINAGE
IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 3 STEP 6

TCP SHEET: 40

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 293 OF 369	

PLOTTED: 8/13/2026 5:07 PM

FILE PATH: P:\ACTIVE\18PV97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase3.6.dwg



N

40 0 20 40 80

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 3 STEP 7

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.
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3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP: 75 TO TCP: 80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

NO.	DATE	REVISION	APP.

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P.E. Reg No: 130533
DATE: AUGUST 2026

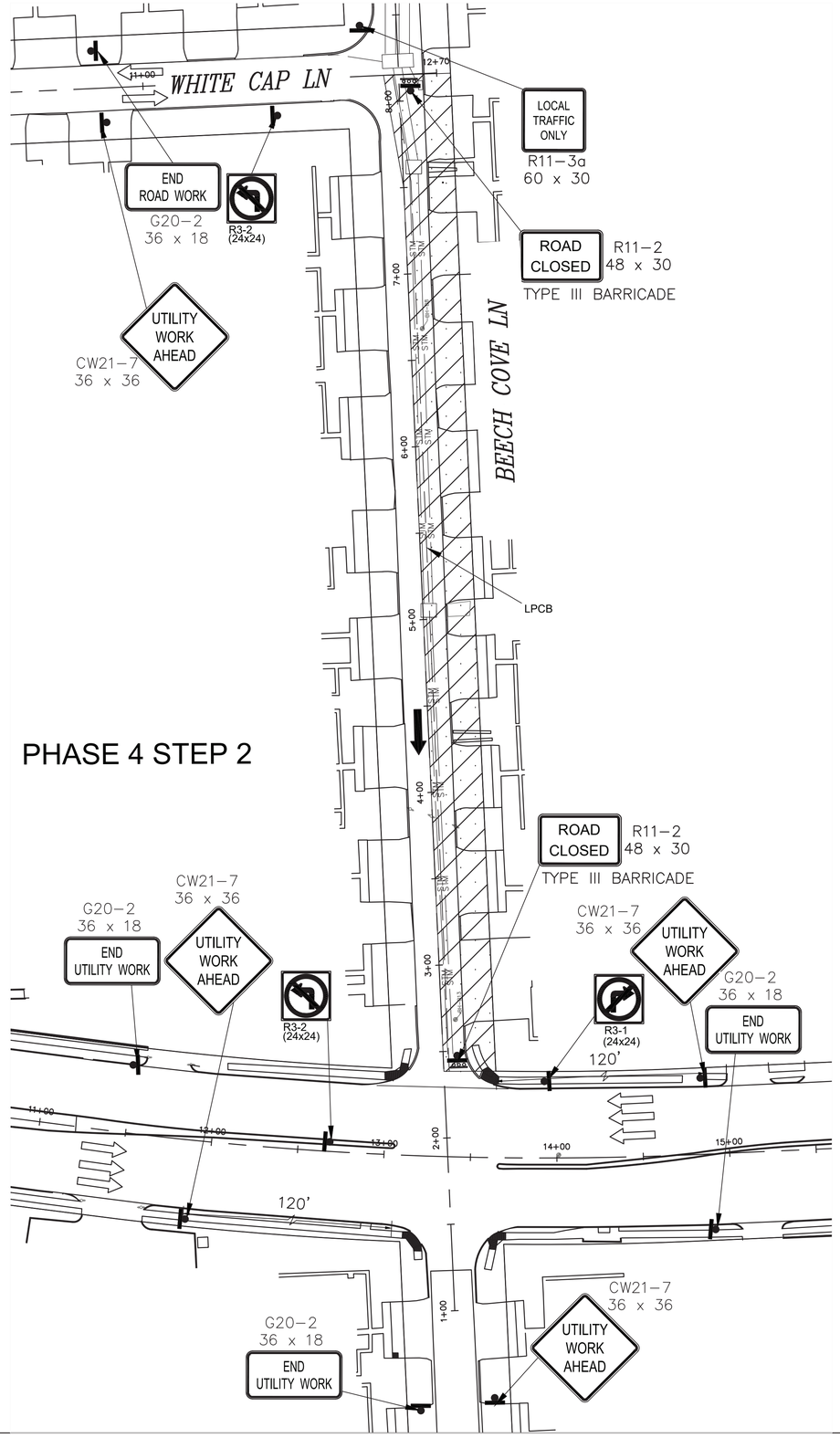
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

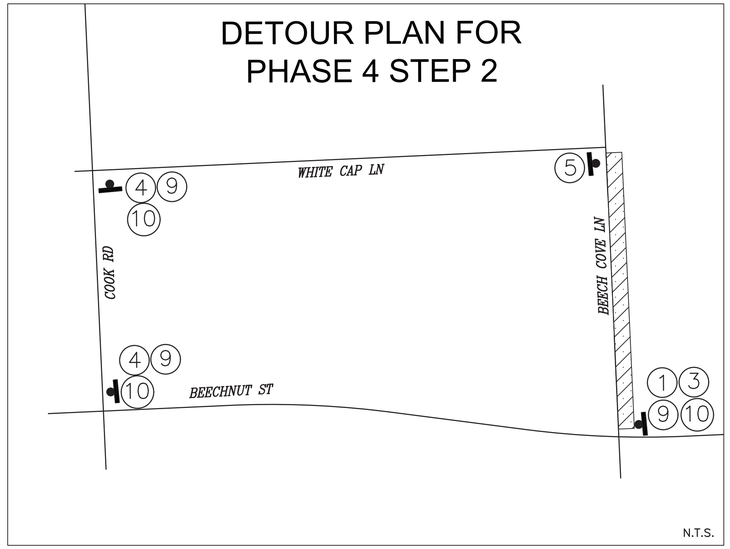
ALIEF FOREST SOUTH AREA
PAVING AND DRAINAGE
IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 3 STEP 7

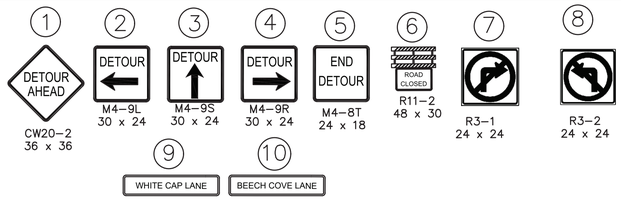
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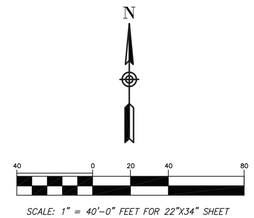
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DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 294 OF 369	

PLOTTED: 8/13/2026 5:07 PM
FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase3.7.dwg



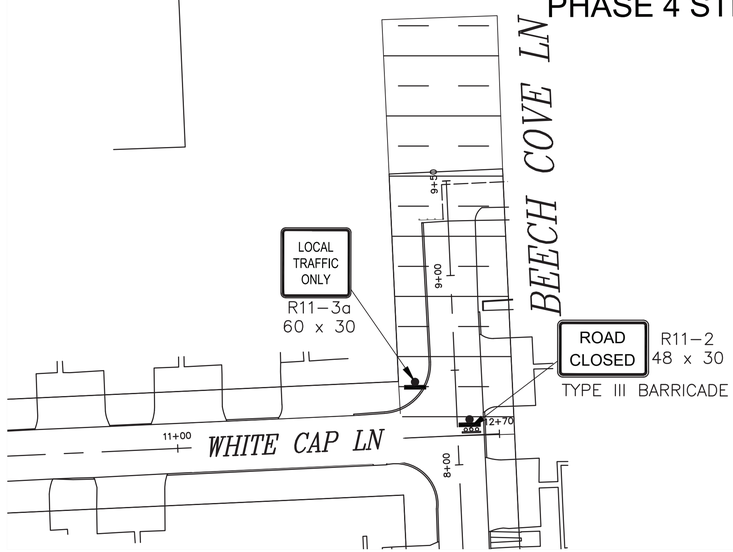






LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER



NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.
2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.
3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP: 75 TO TCP: 80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

NO.	DATE	REVISION	APP.

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ENGINEER: RAHUL R MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

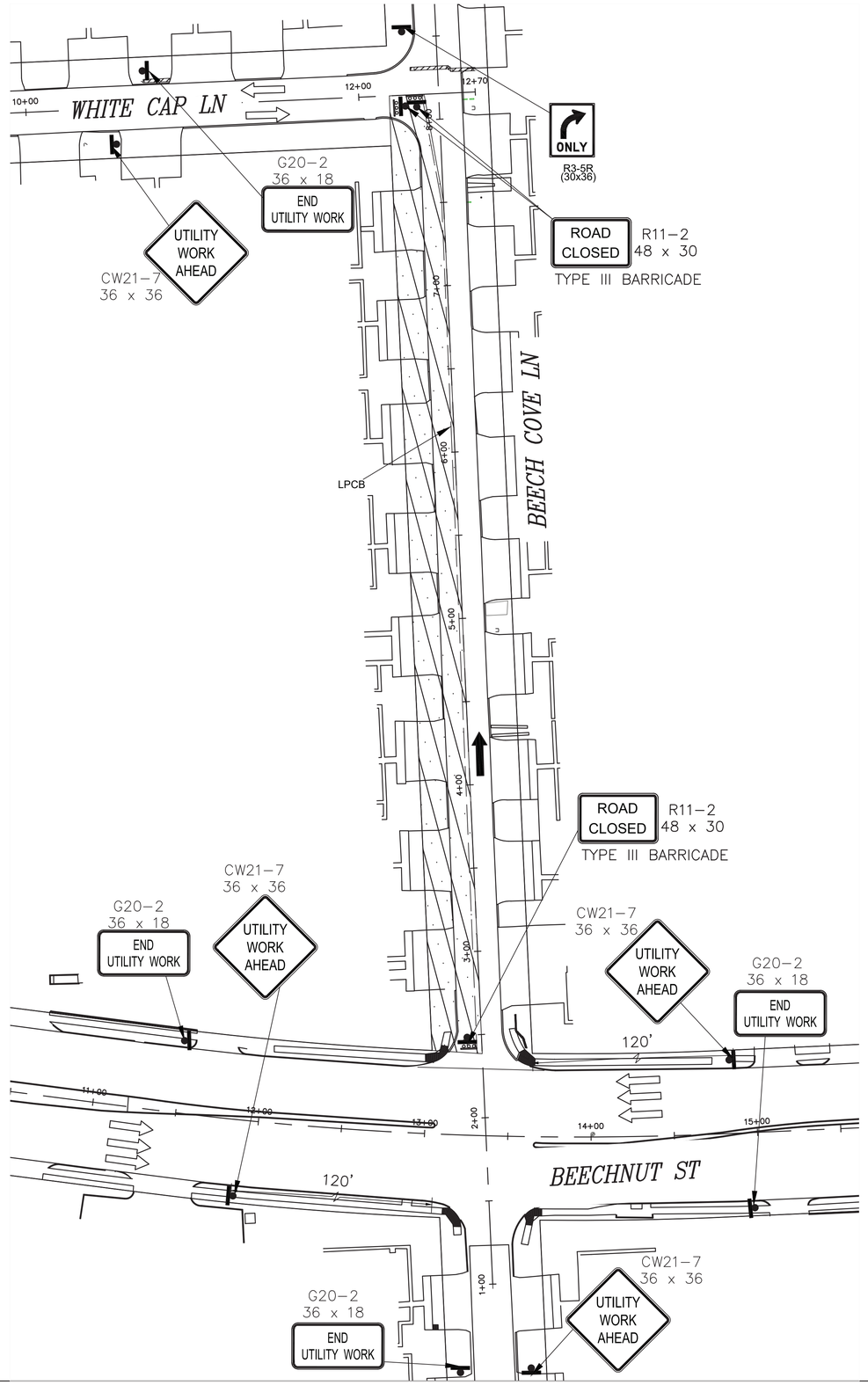
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

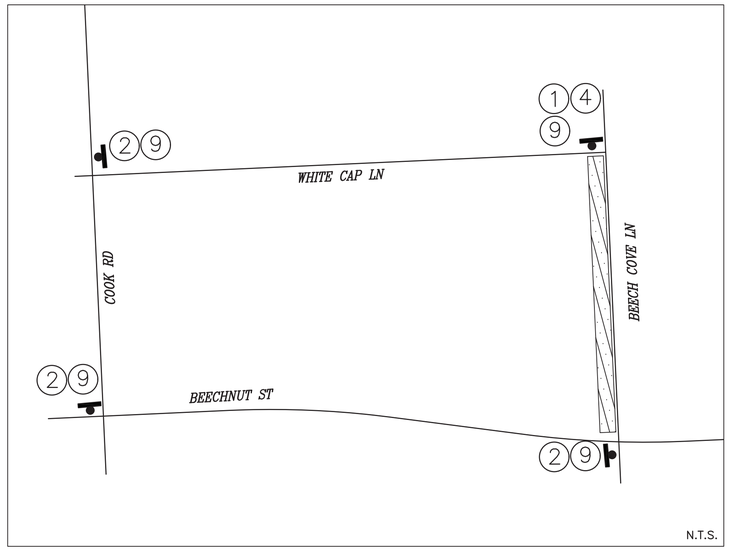
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 4 STEP 1-2

TCP SHEET: 42

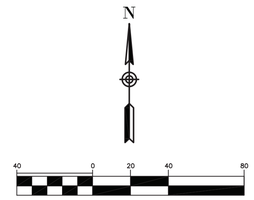
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N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 295 OF 369	

PLOTTED: 8/13/2026 5:07 PM
FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase4.1-2.dwg





1. DETOUR AHEAD — CW20-2, 36 x 36
2. DETOUR — M4-9L, 30 x 24
3. DETOUR — M4-9S, 30 x 24
4. DETOUR — M4-9R, 30 x 24
5. END DETOUR — M4-8T, 24 x 18
6. ROAD CLOSED — R11-2, 48 x 30
7. R3-1, 24 x 24
8. R3-2, 24 x 24
9. BEECH COVE LANE SOUTH



SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 4 STEP 3

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

NOTES:

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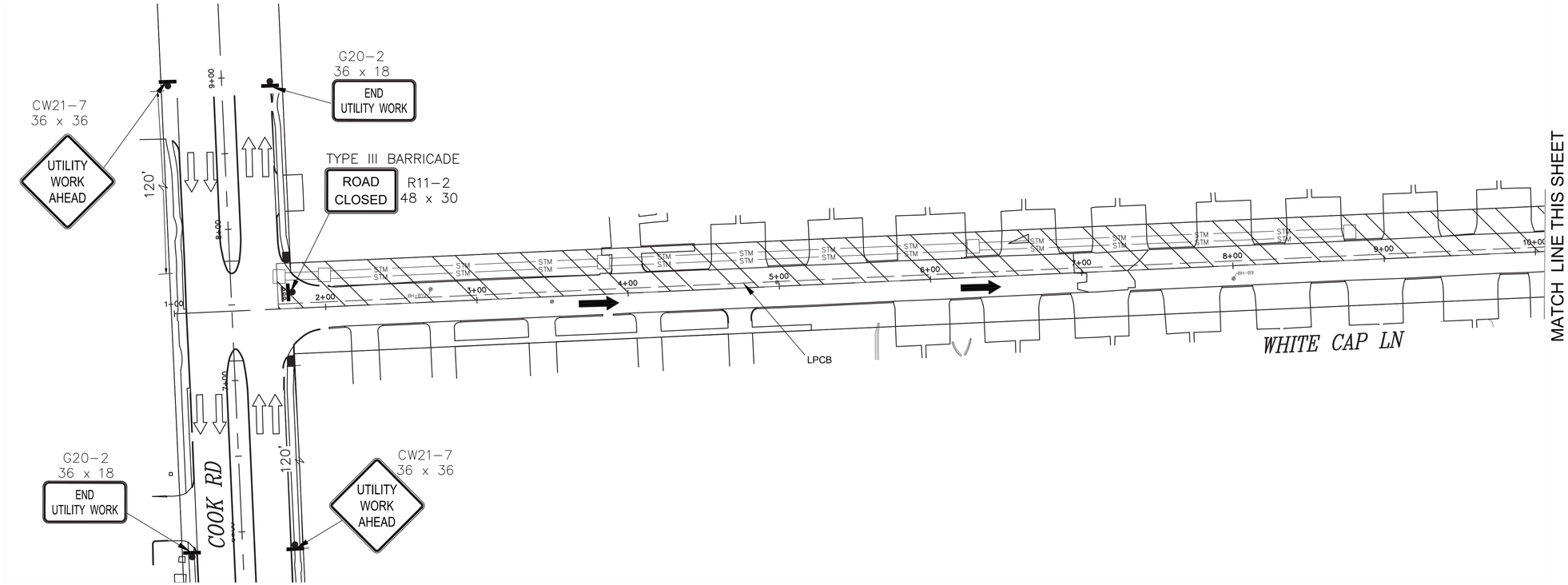
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

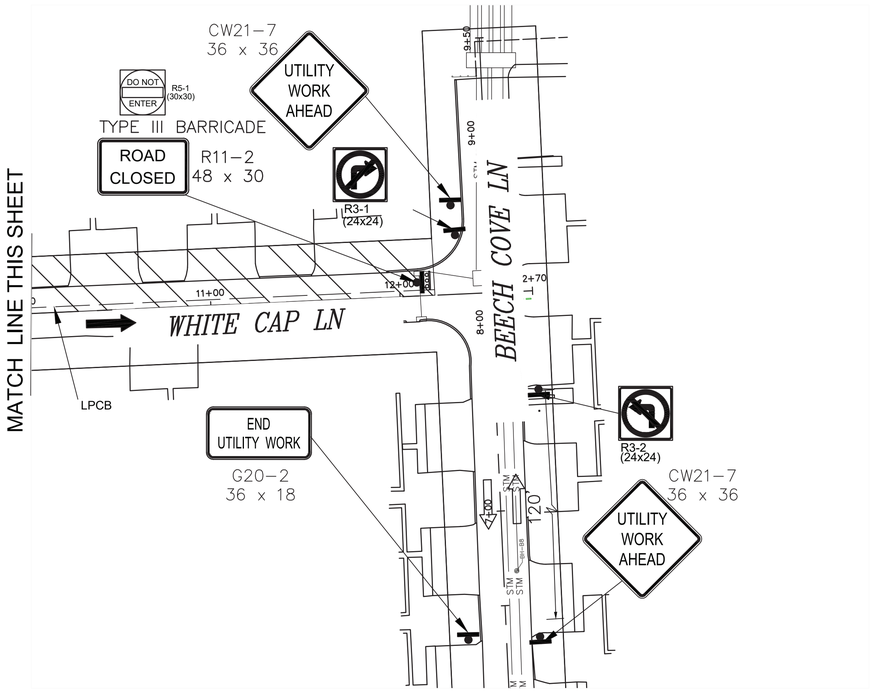
ALIEF FOREST SOUTH AREA
PAVING AND DRAINAGE
IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 4 STEP 3

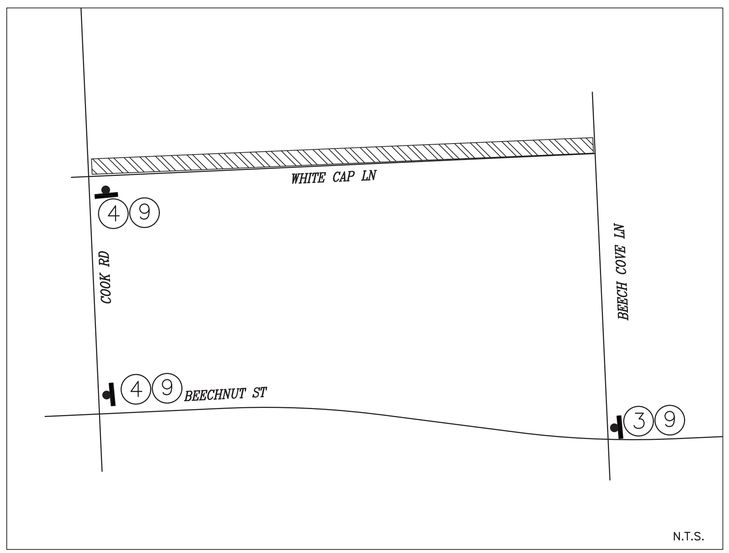
TCP SHEET: 43

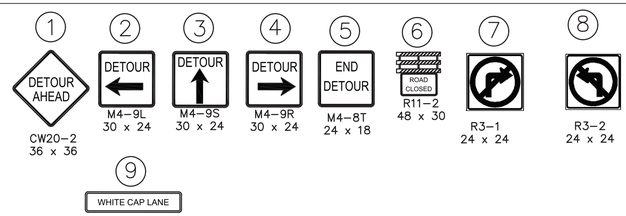
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DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 296 OF 369	

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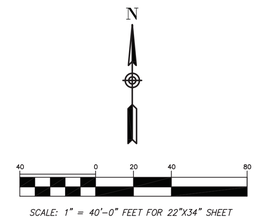




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4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

NO.	DATE	REVISION	APP.



SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 4 STEP 4

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

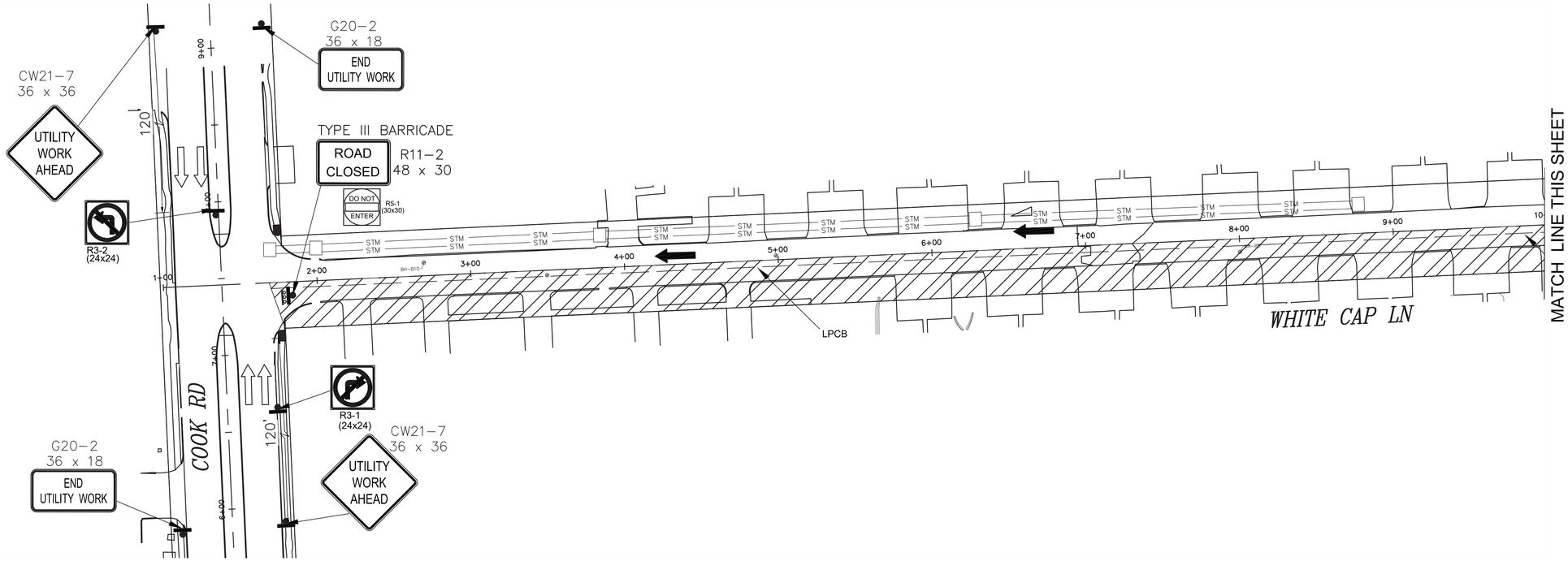
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 4 STEP 4

TCP SHEET: 44

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 297 OF 369	

PLOTTED: 8/13/2026 5:08 PM

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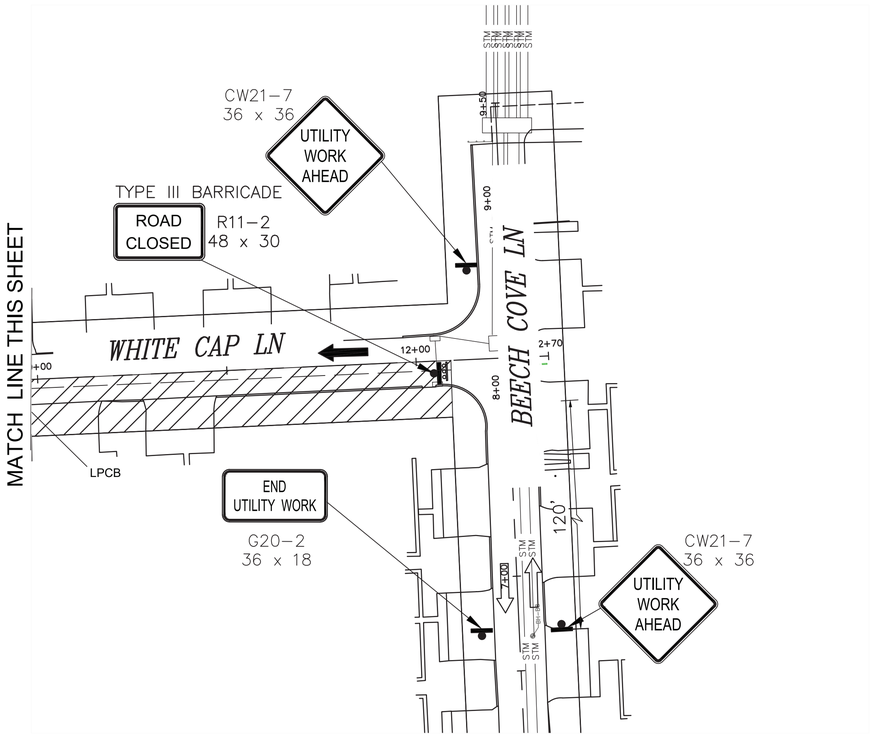
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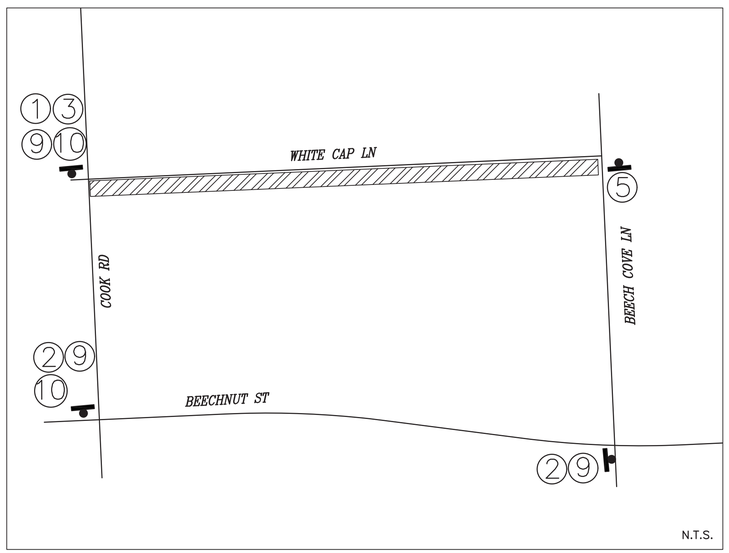
SCALE: 1" = 40'–0" FEET FOR 22"X34" SHEET

PHASE 4 STEP 5

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER





1. DETOUR AHEAD — CW20–2, 36 x 36
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3. DETOUR — M4–9S, 30 x 24
4. DETOUR — M4–9R, 30 x 24
5. END DETOUR — M4–8T, 24 x 18
6. ROAD CLOSED — R11–2, 48 x 30
7. R3–1, 24 x 24
8. R3–2, 24 x 24
9. WHITE CAP LANE
10. BEECH COVE LANE

NOTES:

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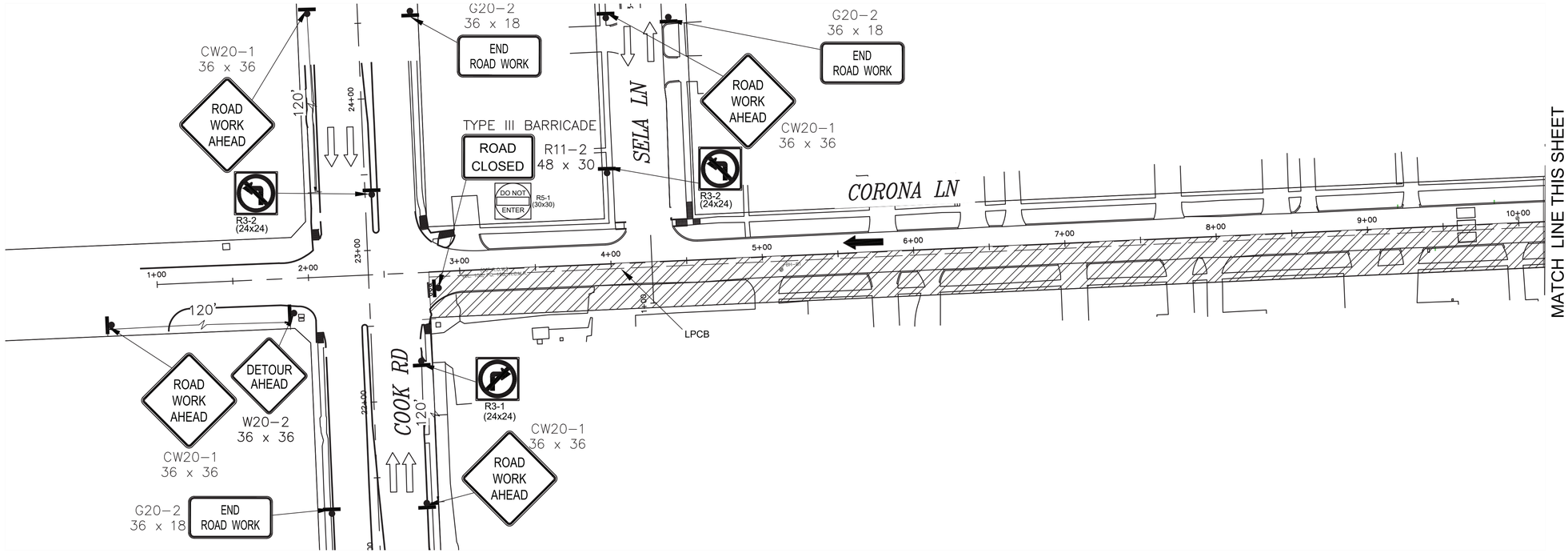
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 4 STEP 5

TCP SHEET: 45

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 298 OF 369	

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FILE PATH: P:\ACTIVE\18Pv97 – 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase4.5.dwg



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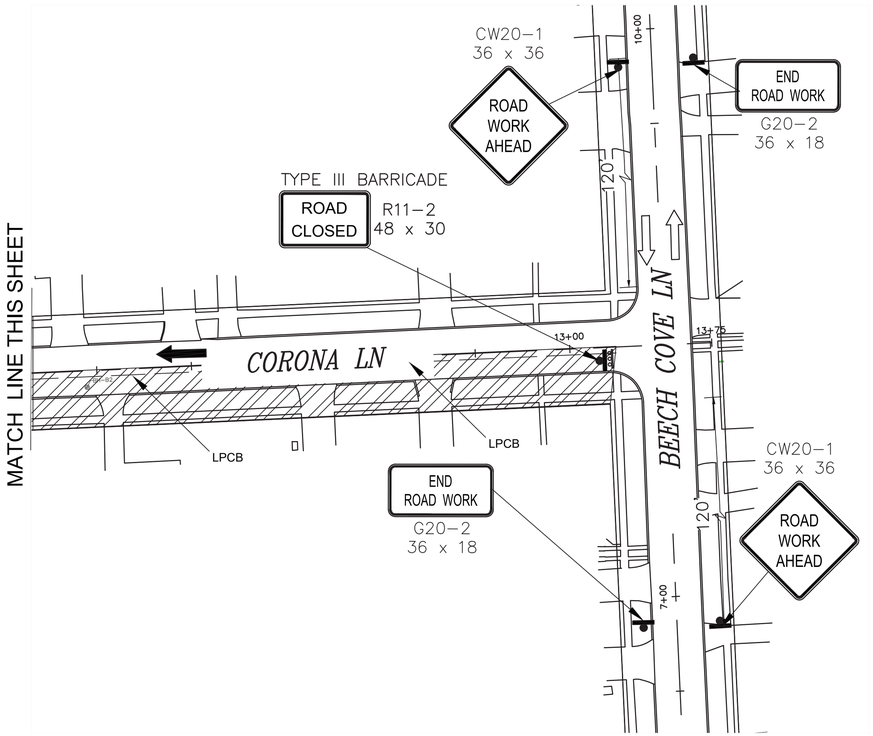
SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

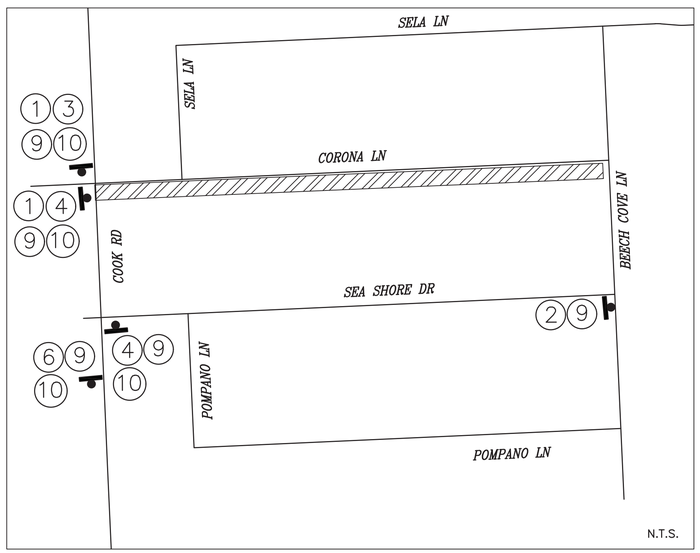
PHASE 5 STEP 1

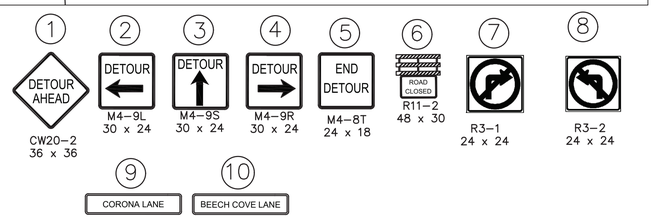
LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

NO.	DATE	REVISION	APP.







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P.E.Reg No: 130533
DATE: AUGUST 2026

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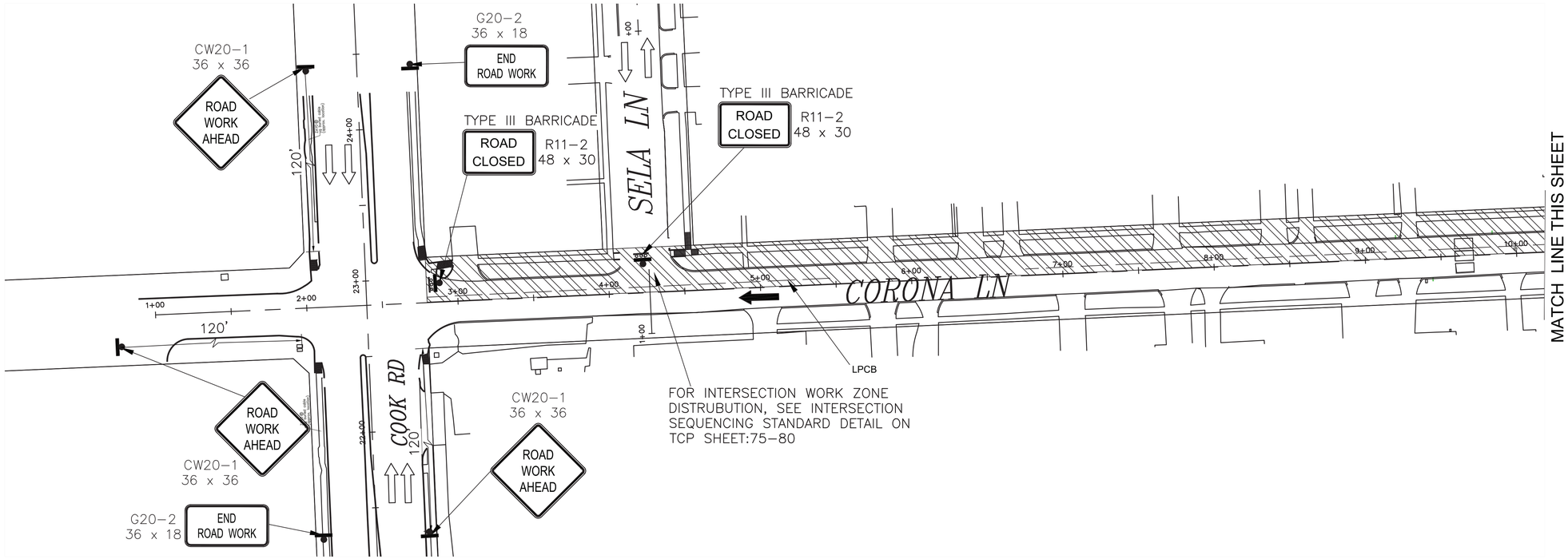
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

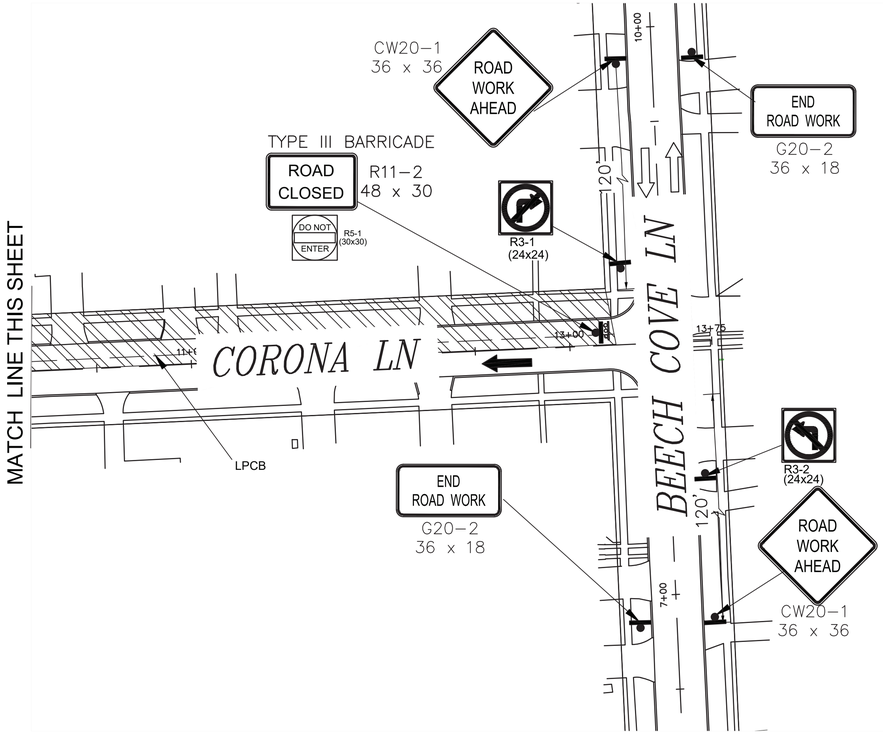
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 5 STEP 1

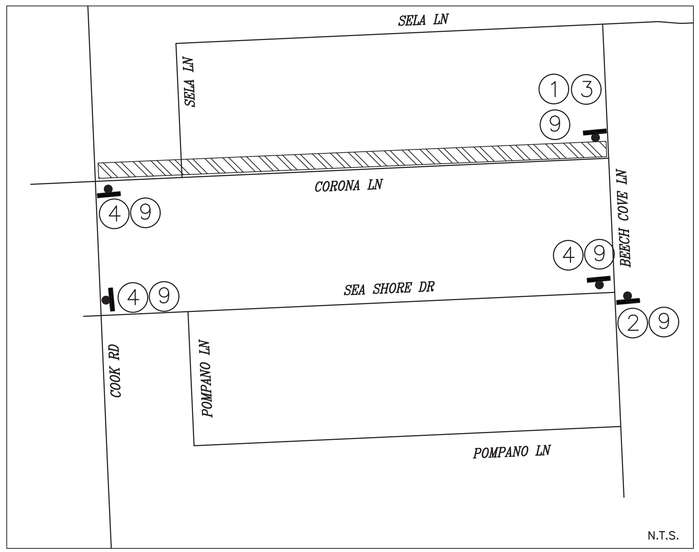
TCP SHEET: 46

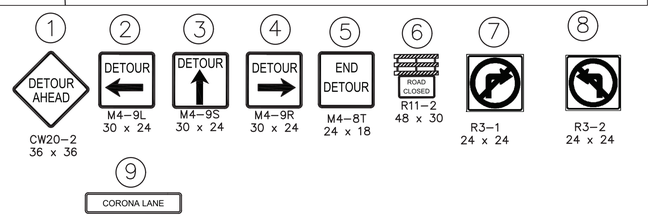
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N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 299 OF 369	

PLOTTED: 8/13/2026 5:08 PM
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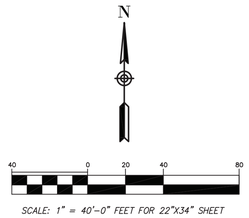






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SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 5 STEP 2

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

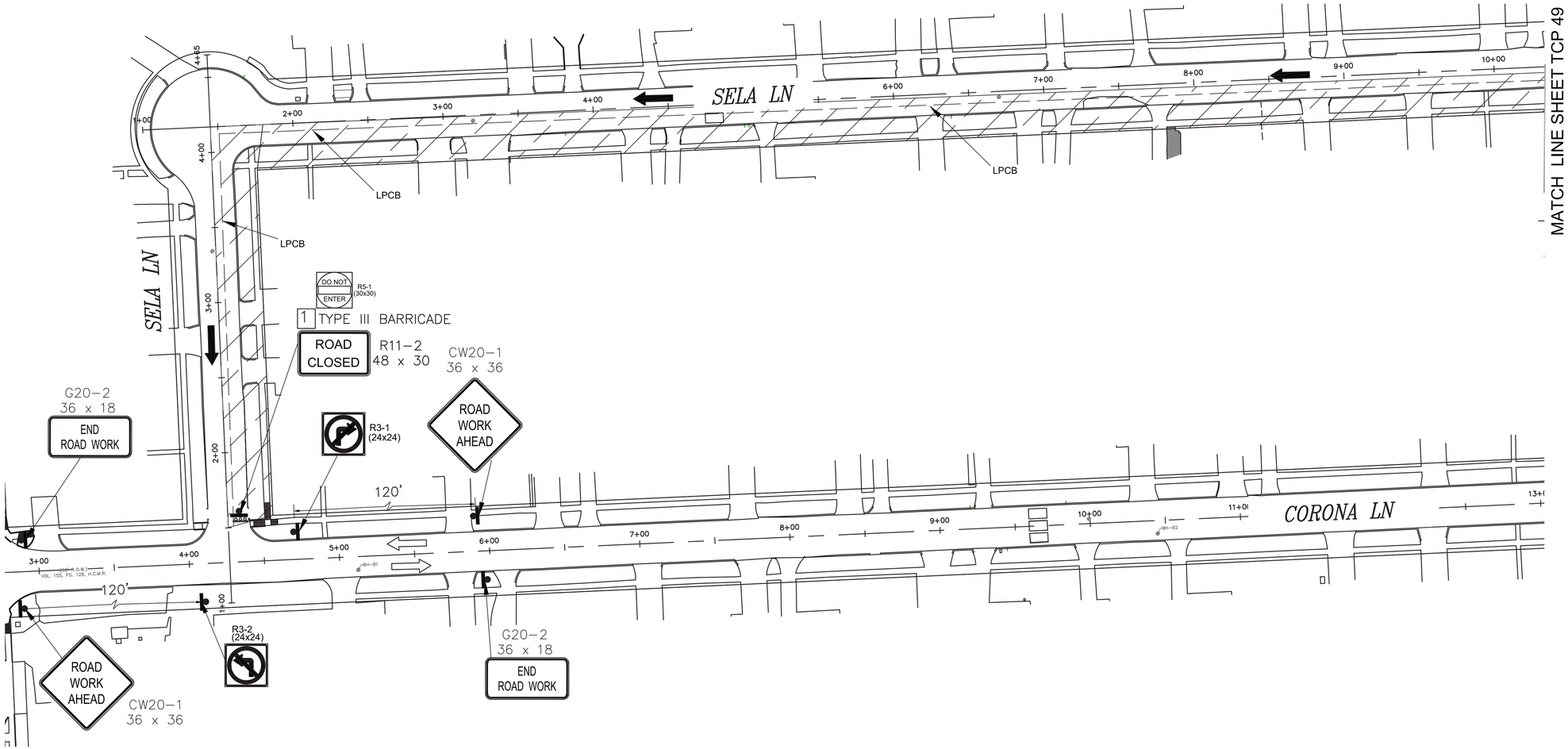
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 5 STEP 2

TCP SHEET: 47

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N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 300 OF 369	

PLOTTED: 8/13/2026 5:08 PM
FILE PATH: P:\ACTIVE\18Pv97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase5.2.dwg



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SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 5 STEP 3

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
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HOUSTON PUBLIC WORKS

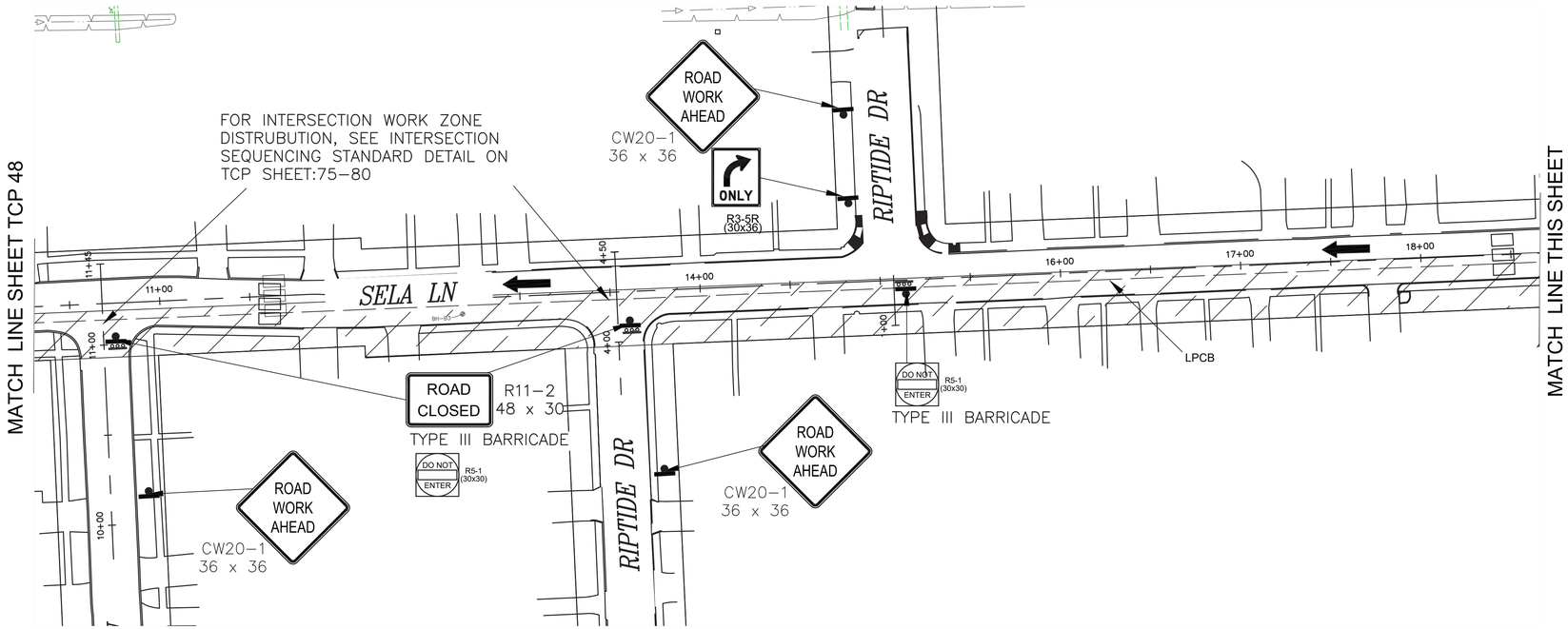
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

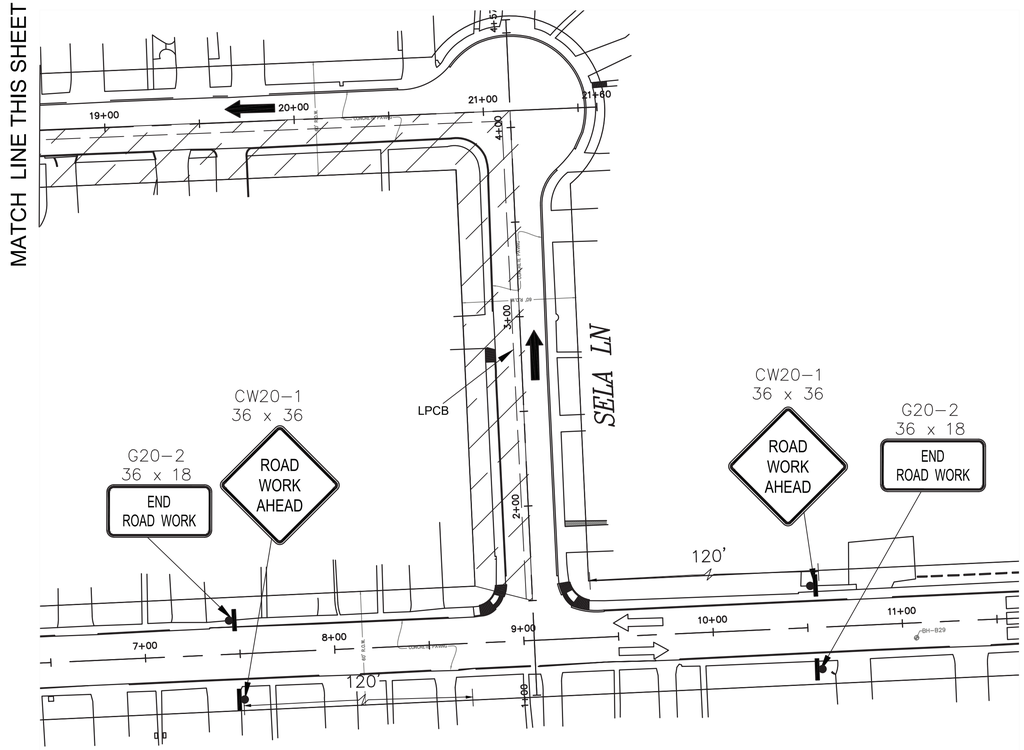
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 5 STEP 3
SHEET 1 OF 3

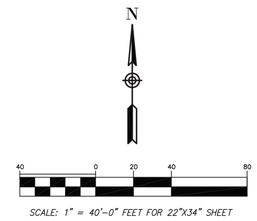
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WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 301 OF 369	

PLOTTED: 8/13/2026 5:09 PM
FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase5_3.dwg







SCALE: 1" = 40'–0" FEET FOR 22"X34" SHEET

PHASE 5 STEP 3

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

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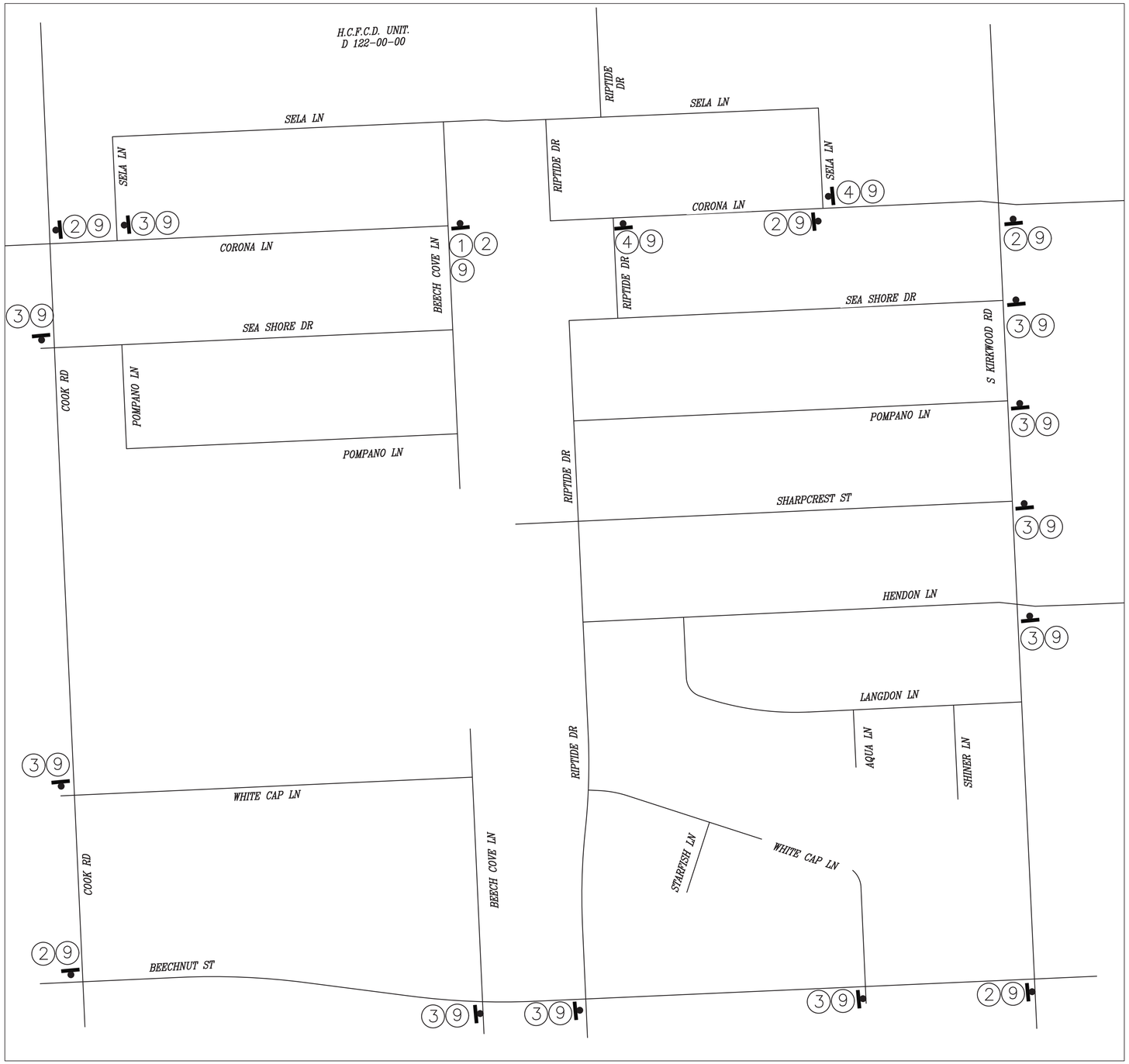
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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

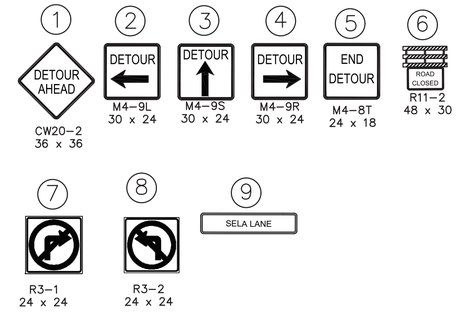
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 5 STEP 3
SHEET 2 OF 3
TCP SHEET: 49

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 302 OF 369	

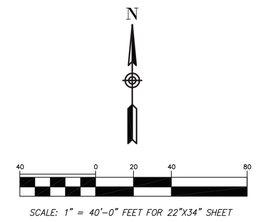
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NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.
2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.
3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP:75 TO TCP:80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.



SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 5 STEP 3

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

NO.	DATE	REVISION	APP.

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
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ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 5 STEP 3
SHEET 3 OF 3

TCP SHEET: 50

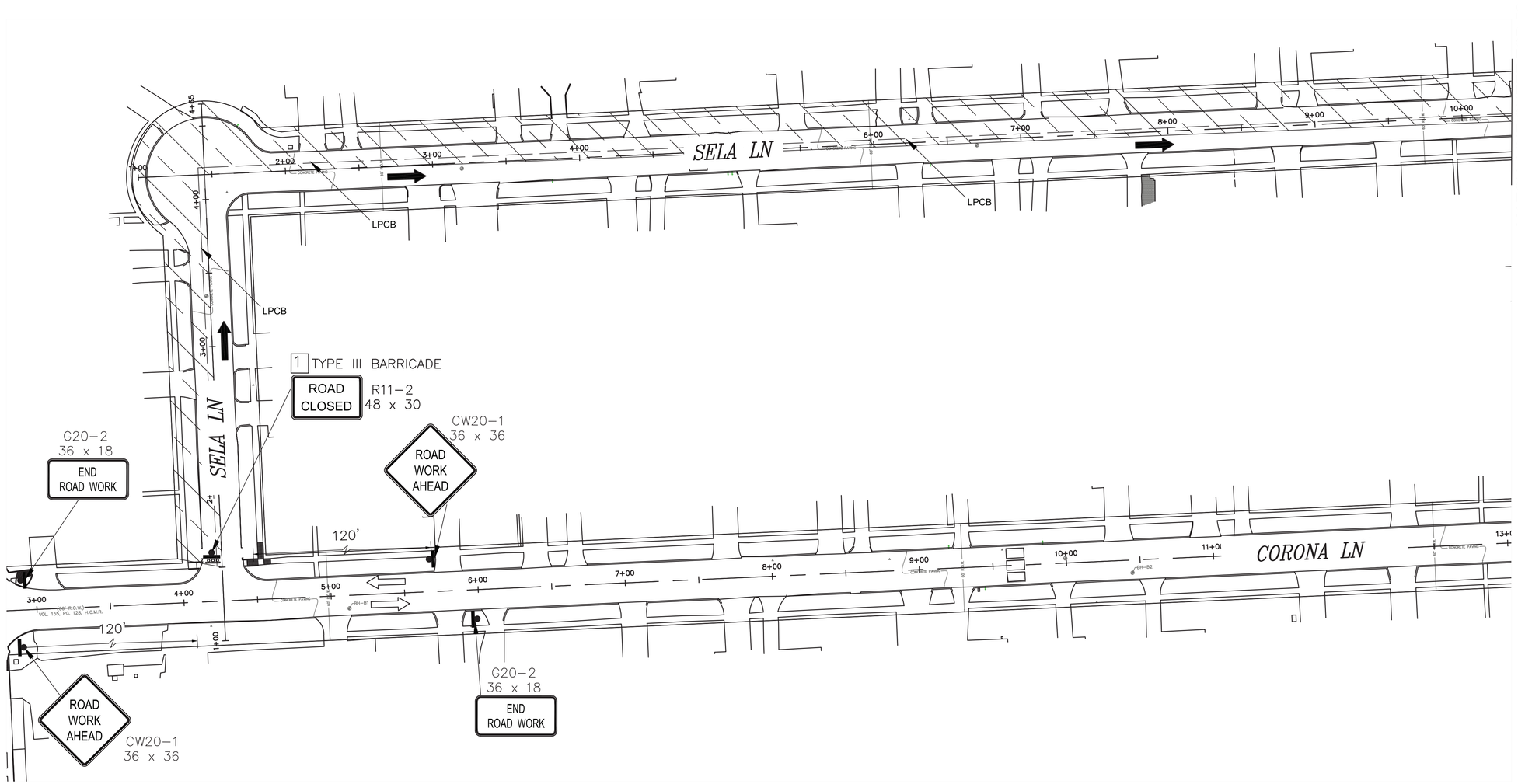
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
N.T.S.	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 303 OF 369	

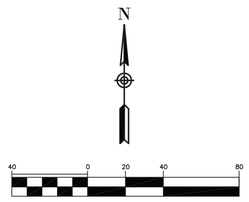
PLOTTED: 8/13/2026 5:09 PM
FILE PATH: P:\ACTIVE\18PV97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase5.3.dwg

PLOTTED: 8/13/2026 5:09 PM

FILE PATH: P:\ACTIVE\18PV97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase5.4.dwg

NO.	DATE	REVISION	APP.





SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 5 STEP 4

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.
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3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP: 75 TO TCP: 80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

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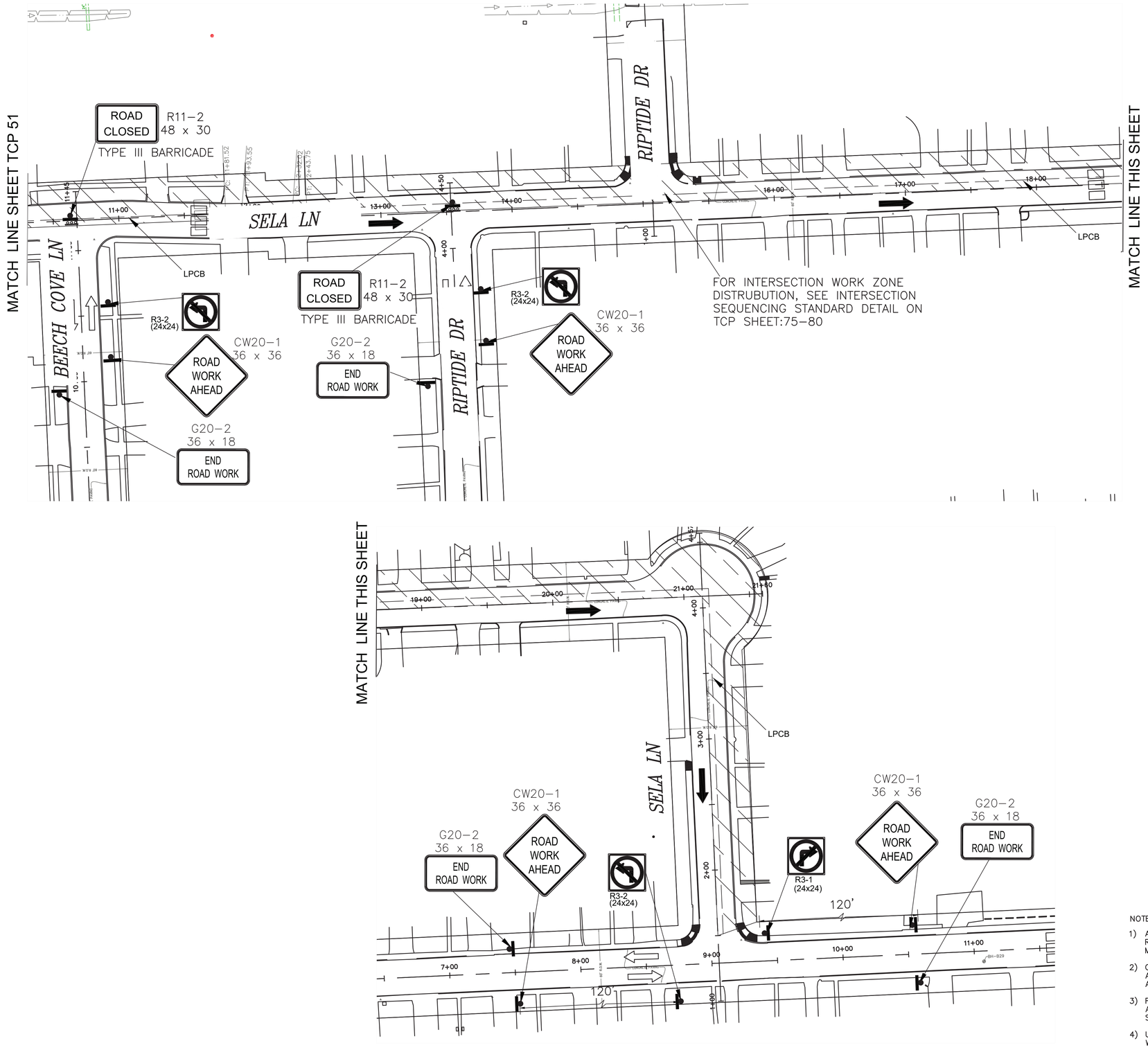
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ENGINEER: RAHUL B MENON, P.E
P.E Reg No: 130533
DATE: AUGUST 2026

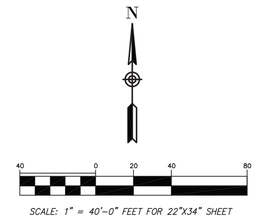
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ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 5 STEP 4
SHEET 1 OF 3
TCP SHEET: 51

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 304 OF 369	





SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 5 STEP 4

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.
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4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

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P.E. Reg No: 130533
DATE: AUGUST 2026

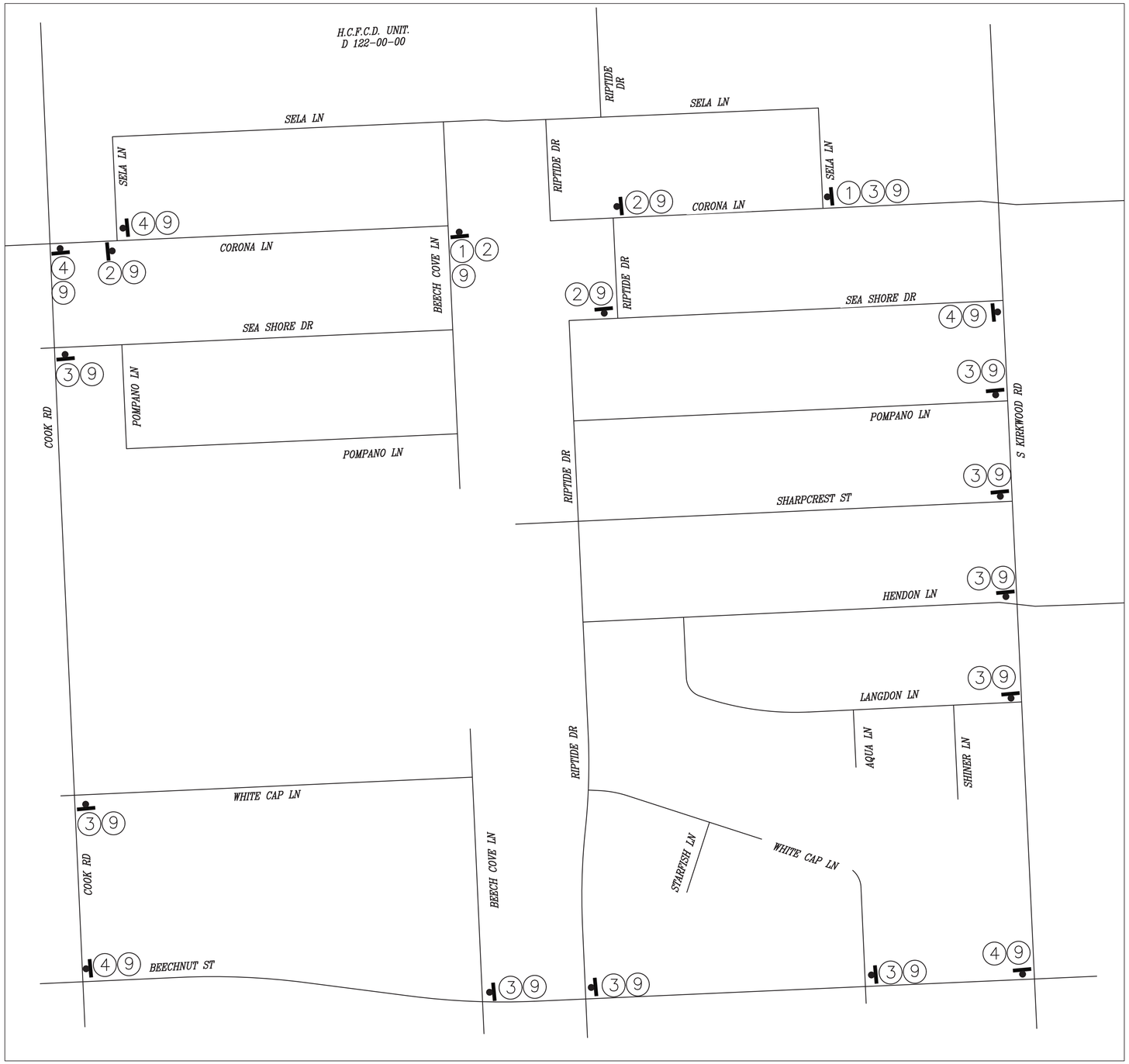
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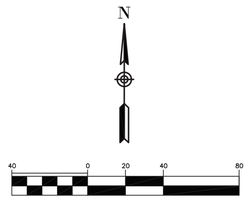
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 5 STEP 4
SHEET 2 OF 3

TCP SHEET: 52

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 305 OF 369	

PLOTTED: 8/13/2026 5:09 PM
FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase5.4.dwg



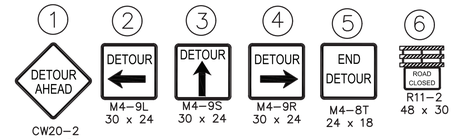


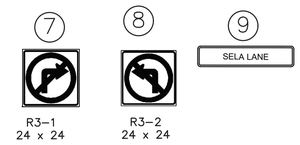
SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 5 STEP 4

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER





NOTES:

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P.E. Reg No: 130533
DATE: AUGUST 2026

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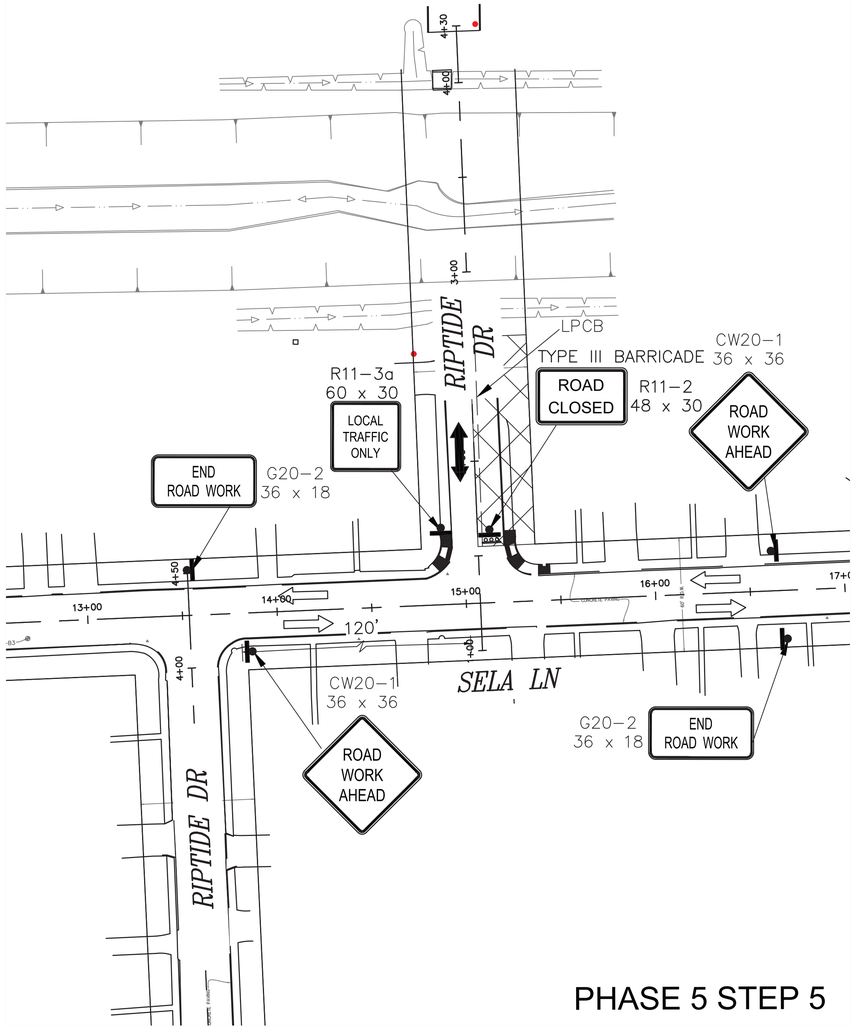
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TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 5 STEP 4
SHEET 3 OF 3

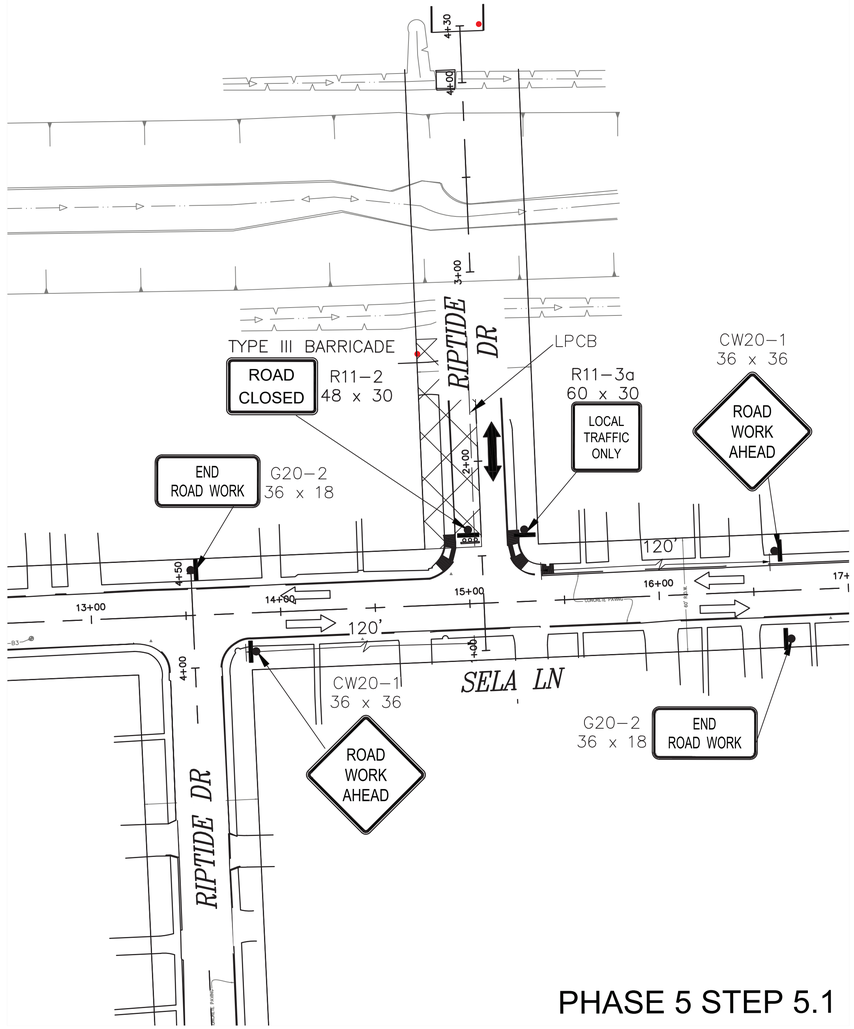
TCP SHEET: 53

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
N.T.S.	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 306 OF 369	

PLOTTED: 8/13/2026 5:09 PM
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PHASE 5 STEP 5

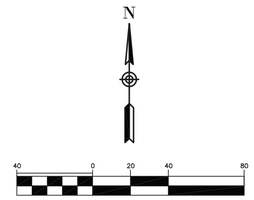


PHASE 5 STEP 5.1

NOTES:

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4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

NO.	DATE	REVISION	APP.



SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 5 STEP 5 & 5.1

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

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ENGINEER: RAHUL R MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

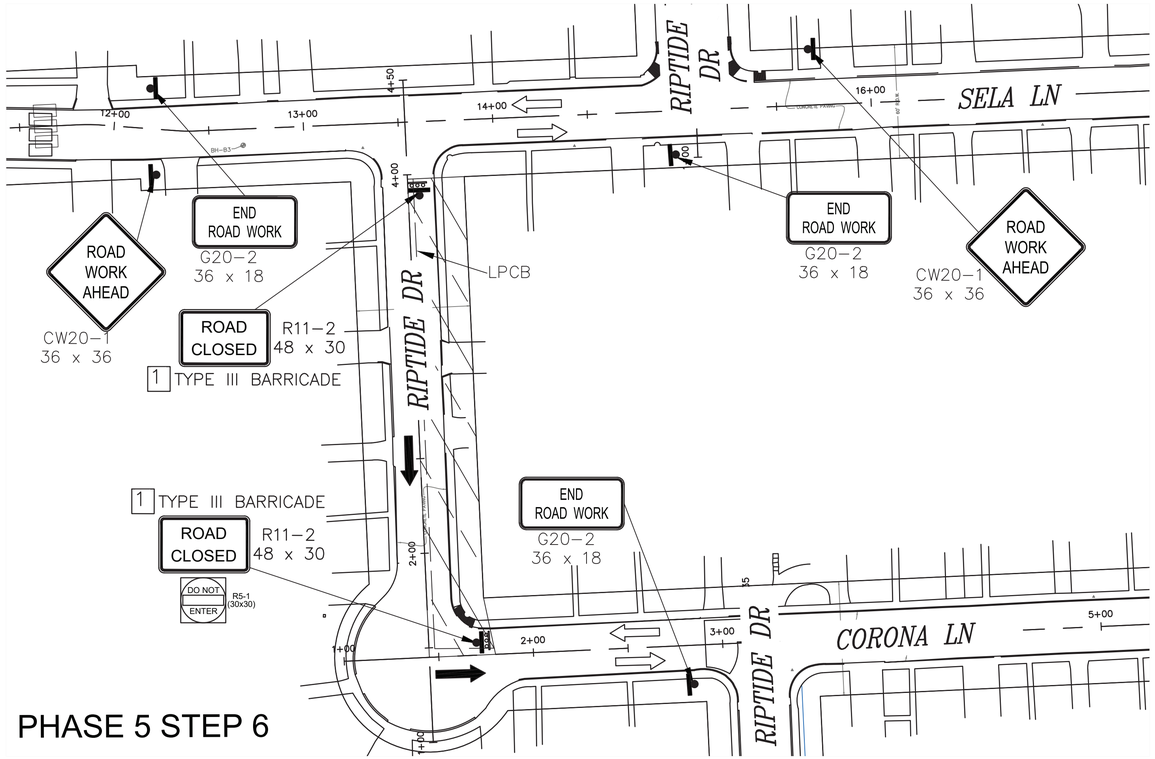
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 5 STEP 5 & 5.1

TCP SHEET: 54

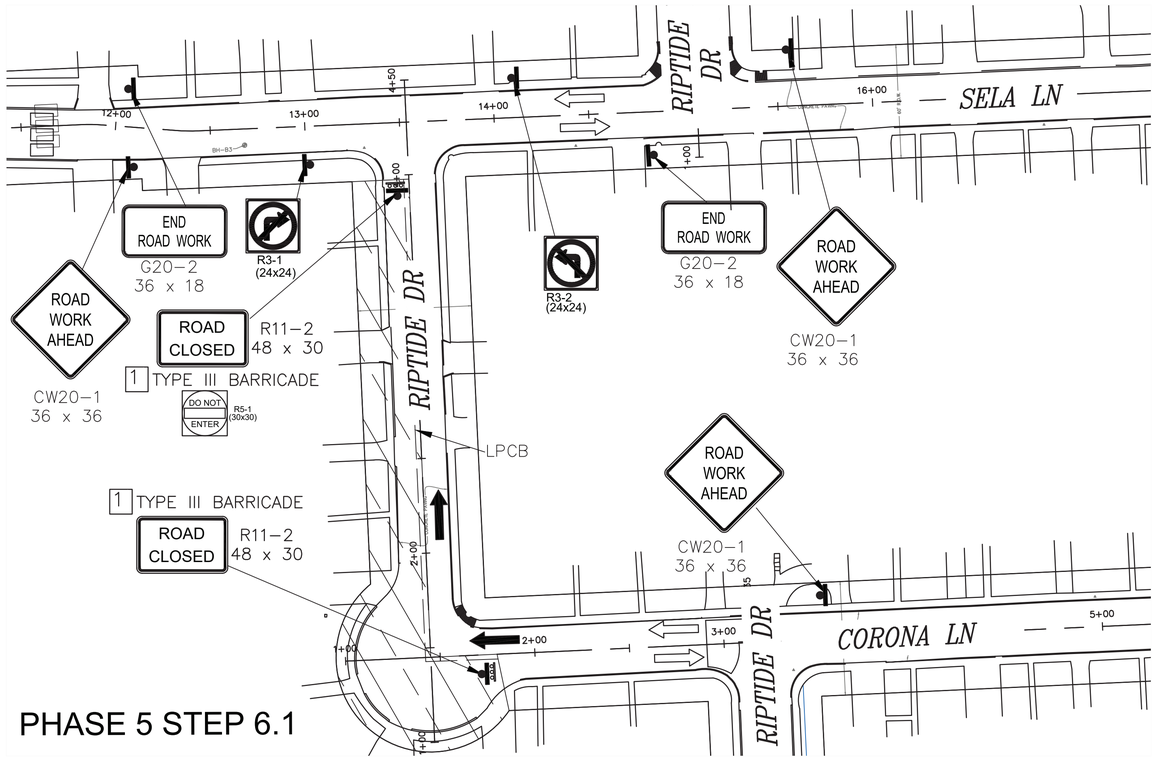
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N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 307 OF 369	

PLOTTED: 8/13/2026 5:09 PM

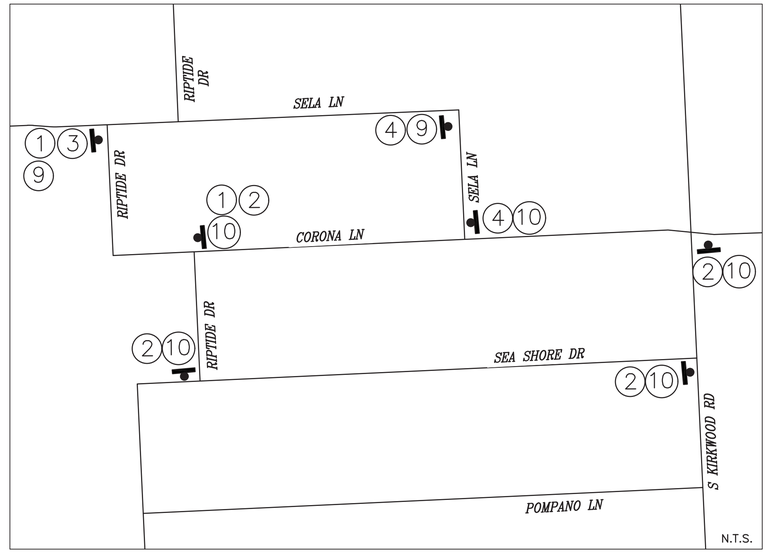
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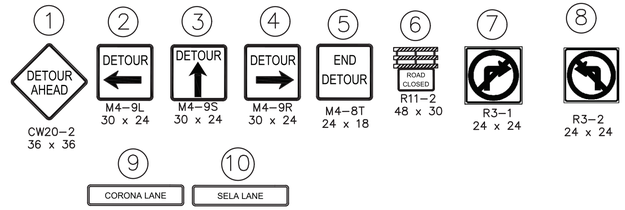


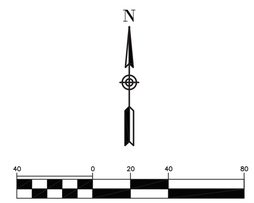
PHASE 5 STEP 6



PHASE 5 STEP 6.1







LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

NOTES:

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4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

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FB NO. P-6382

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

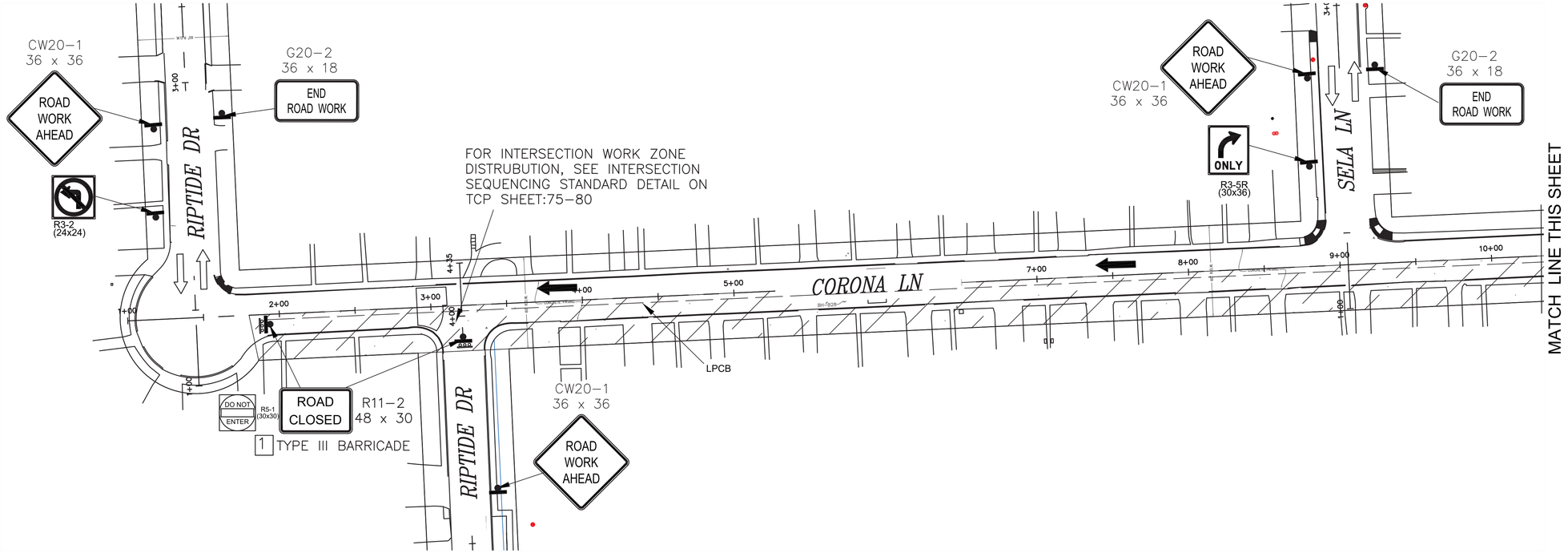
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 5 STEP 6 & 6.1

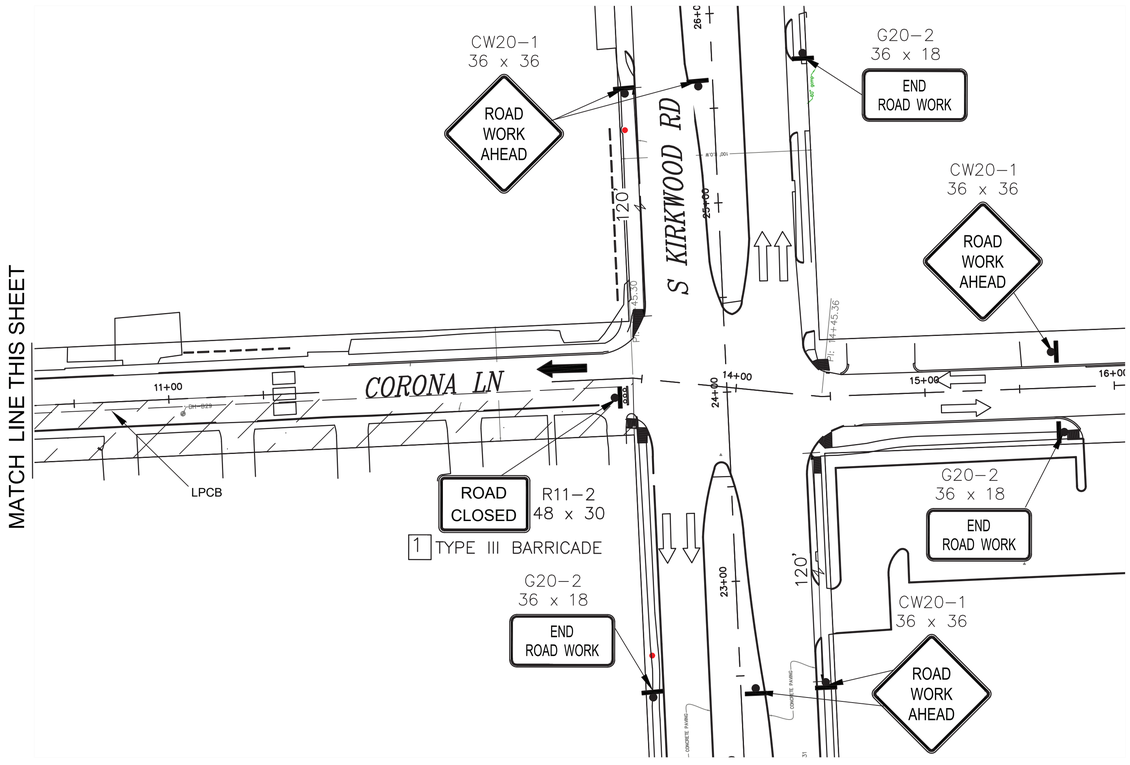
TCP SHEET: 55

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 308 OF 369	

PLOTTED: 8/13/2026 5:09 PM

FILE PATH: P:\ACTIVE\18Prj97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase5.6.dwg





N

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 5 STEP 7

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

NOTES:

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4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

NO.	DATE	REVISION	APP.

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ENGINEER: RAHUL R MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

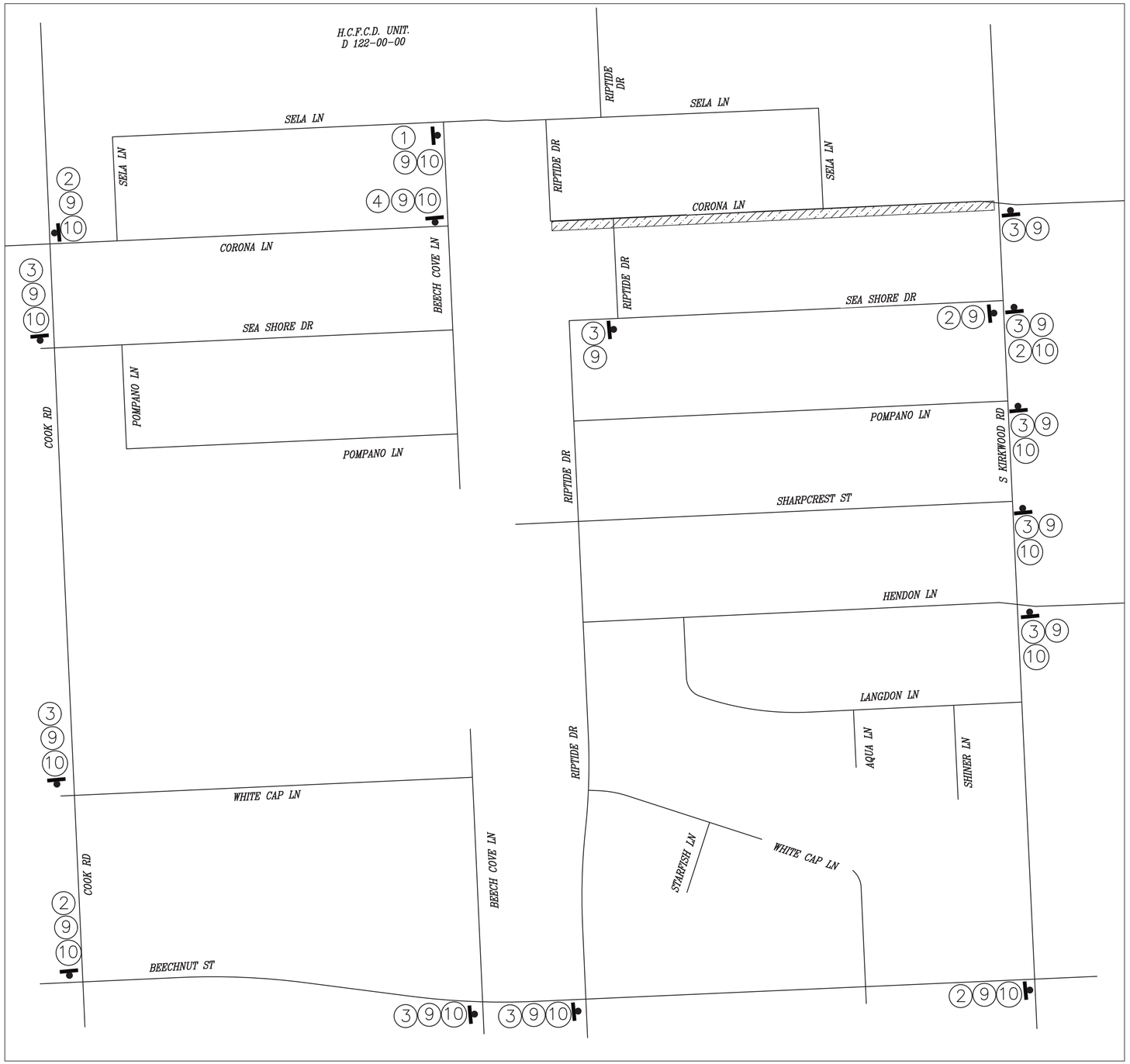
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

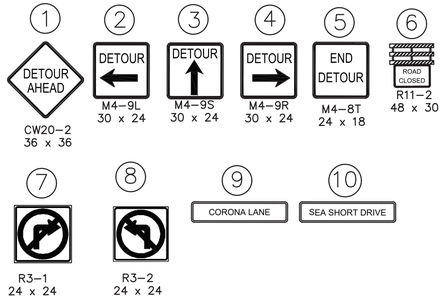
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 5 STEP 7
SHEET 1 OF 2

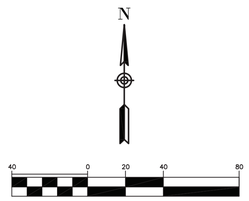
TCP SHEET: 56

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 309 OF 369	

PLOTTED: 8/13/2026 5:10 PM
FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase5.7.dwg







SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 5 STEP 7

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

NOTES:

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3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP: 75 TO TCP: 80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

NO.	DATE	REVISION	APP.

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10448 Westoffice Drive
Houston, Texas 77042
P 713 747 2399
F 713 748 3748
TBPE Firm Reg. #4575

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P-6382

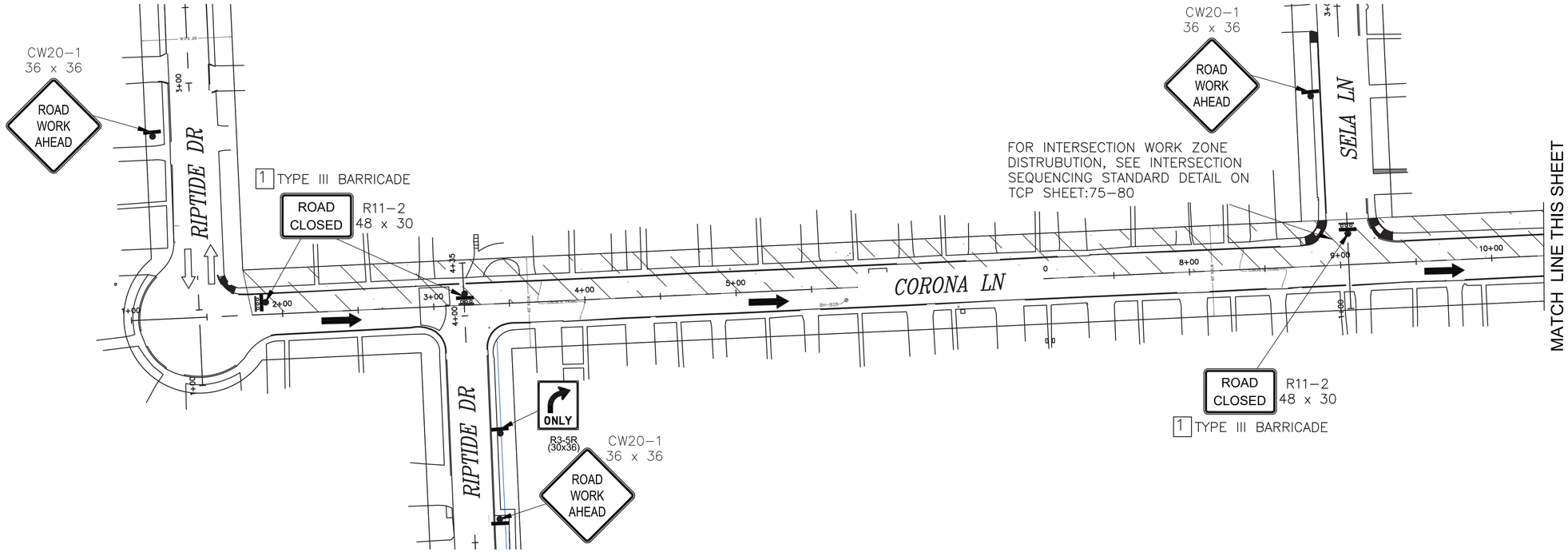
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

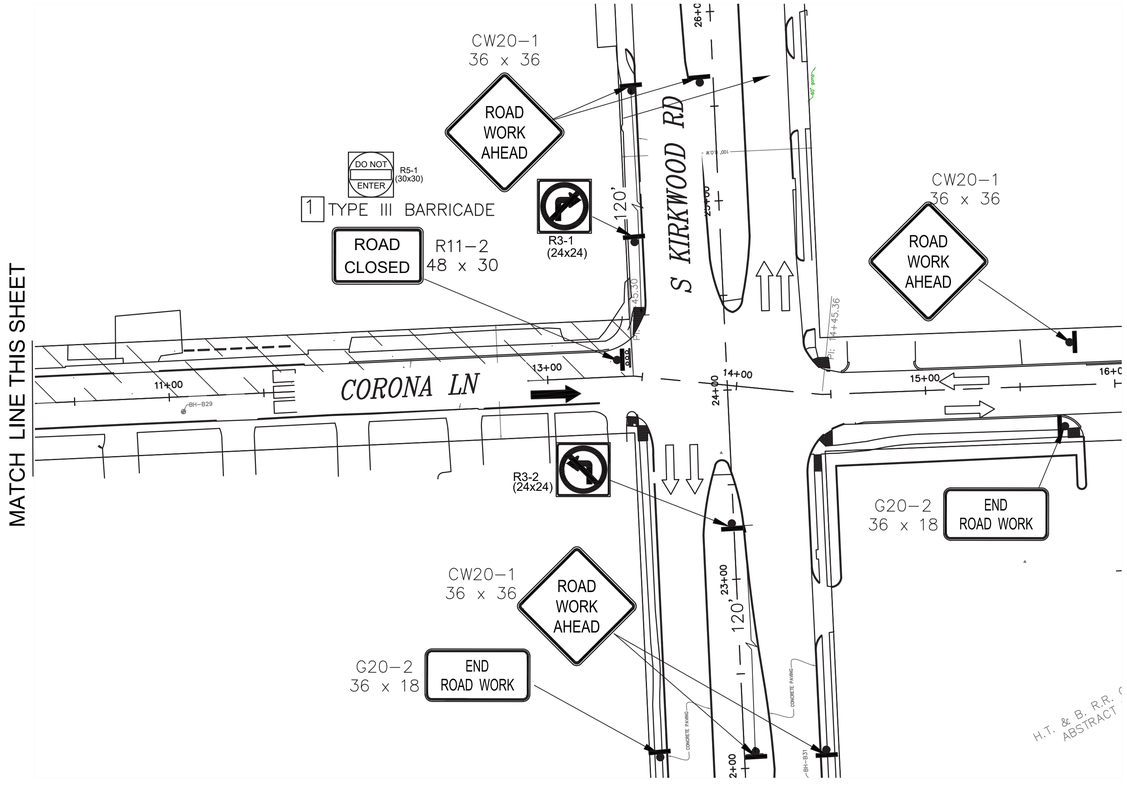
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 5 STEP 7
SHEET 2 OF 2

TCP SHEET: 57

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
N.T.S.	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 310 OF 369	

PLOTTED: 8/13/2026 5:10 PM
FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase5_7.dwg





N

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 5 STEP 8

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.
2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.
3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP: 75 TO TCP: 80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

NO.	DATE	REVISION	APP.

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

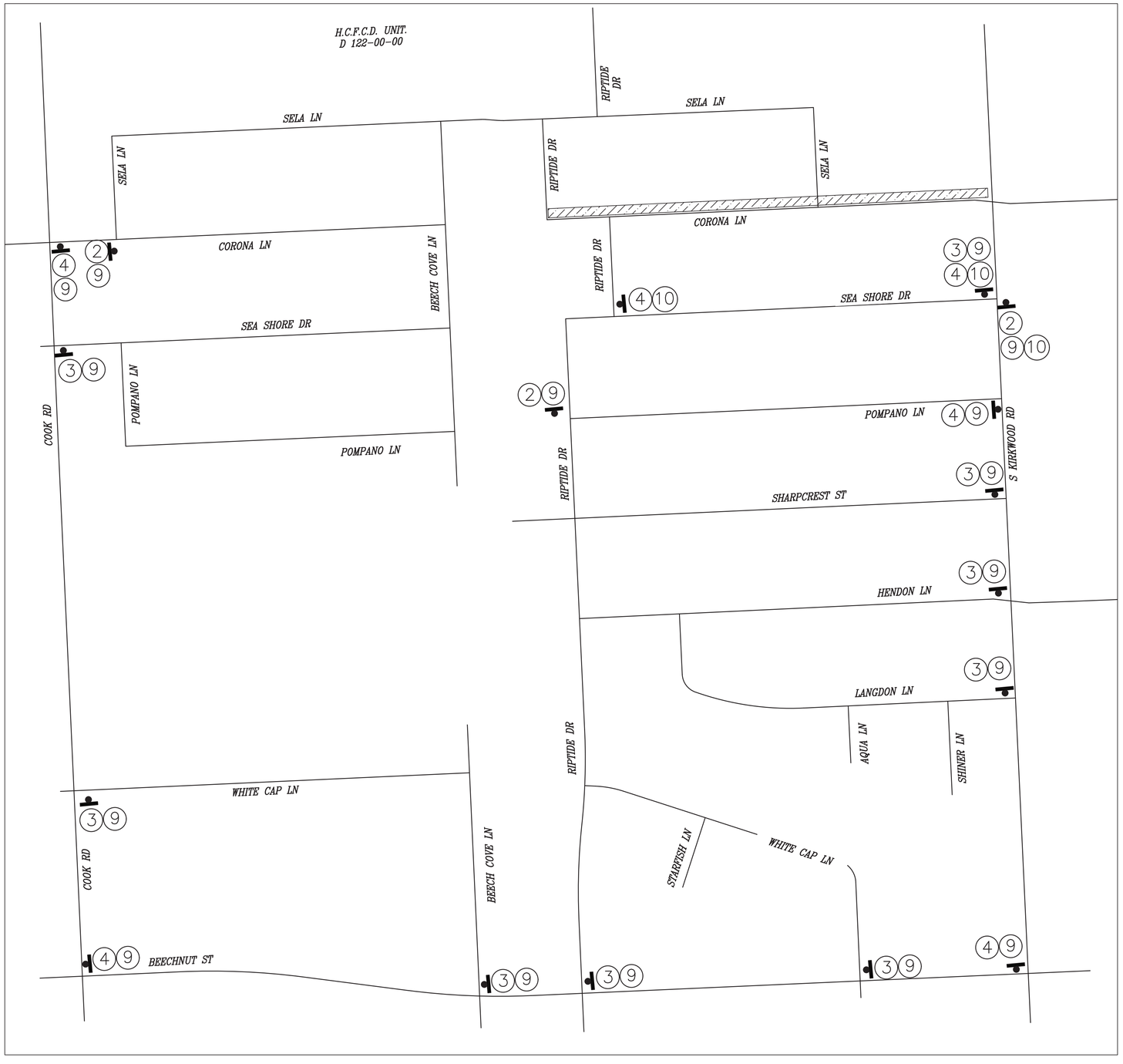
SURVEYED BY: Kuo&Associates
FB NO. P-6382

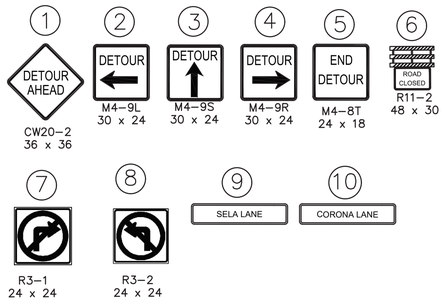
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

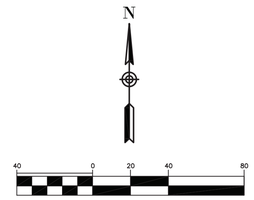
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 5 STEP 8
SHEET 1 OF 2
TCP SHEET: 58

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 311 OF 369	

PLOTTED: 8/13/2026 5:10 PM
FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase5.8.dwg







SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 5 STEP 8

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.
2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.
3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP: 75 TO TCP: 80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

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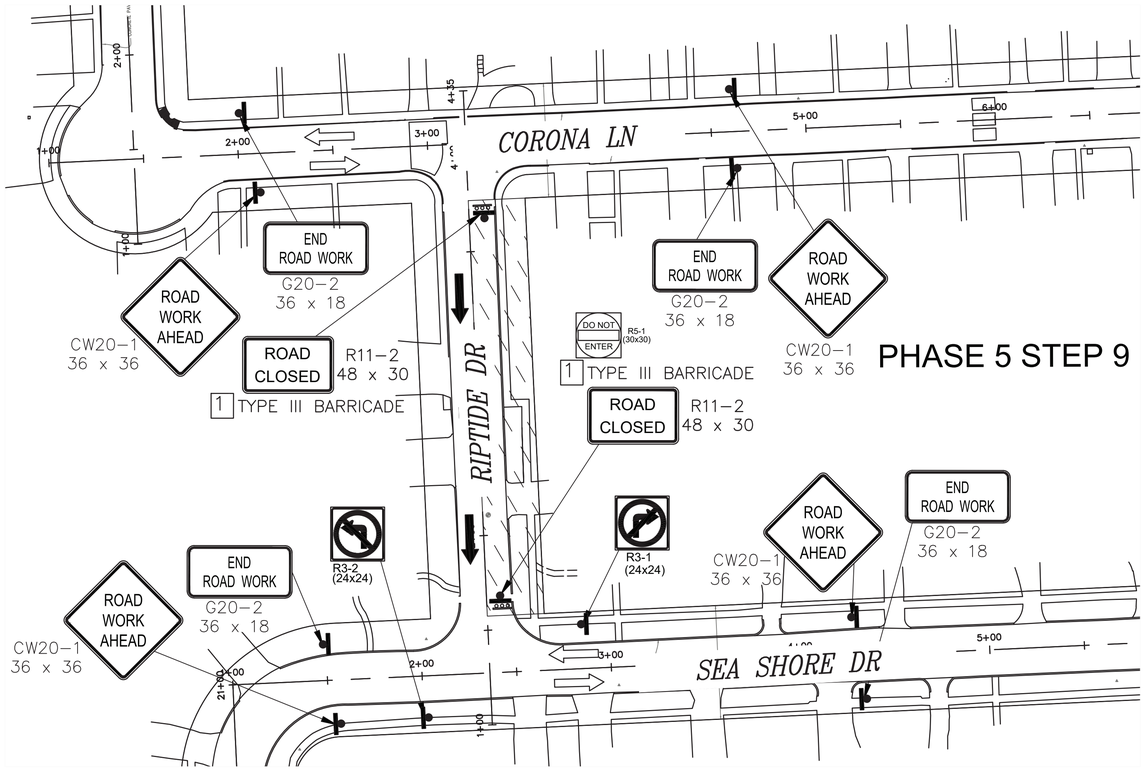
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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

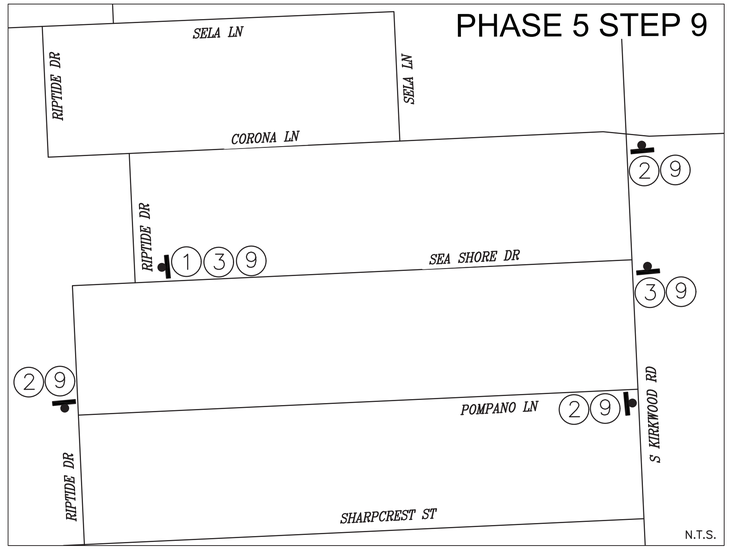
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

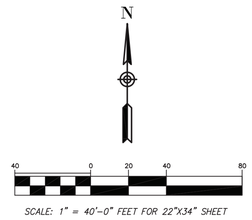
ALIEF FOREST SOUTH AREA
PAVING AND DRAINAGE
IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 5 STEP 8
SHEET 2 OF 2
TCP SHEET: 59

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
N.T.S.	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 312 OF 369	

PLOTTED: 8/13/2026 5:10 PM
FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase5.8.dwg

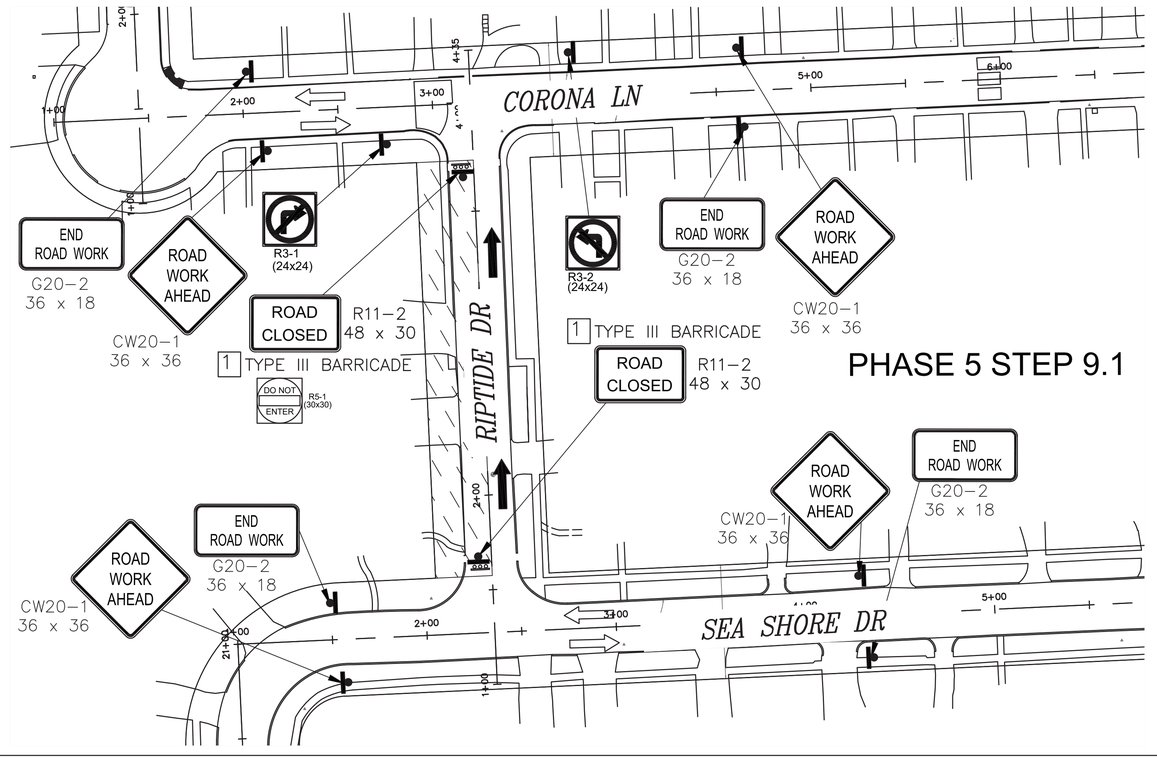


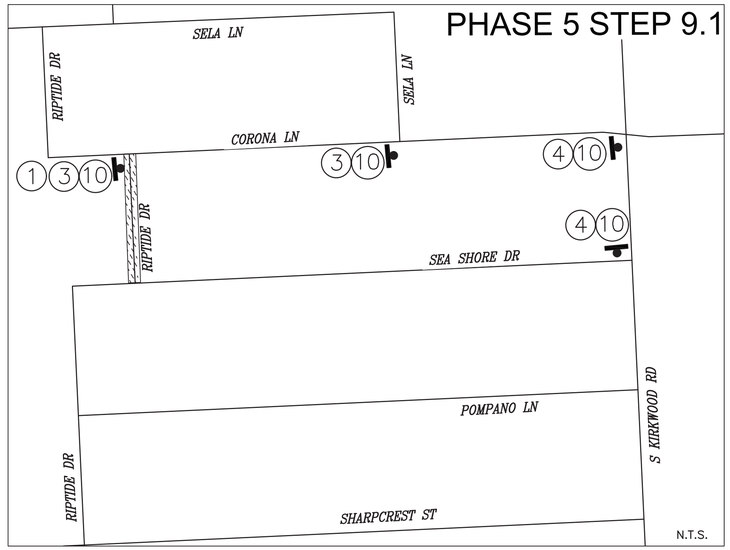




LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER





1 DETOUR AHEAD — CW20-2, 36 x 36
2 DETOUR — M4-9L, 30 x 24
3 DETOUR — M4-9S, 30 x 24
4 DETOUR — M4-9R, 30 x 24
5 END DETOUR — M4-8T, 24 x 18
6 ROAD CLOSED — R11-2, 48 x 30
7 R3-1, 24 x 24
8 R3-2, 24 x 24
9 CORONA LANE
10 SEA SHORE DRIVE

NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.
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3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP:75 TO TCP:80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

NO.	DATE	REVISION	APP.

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TBPE Firm Reg. #4575

SURVEYED BY: Kuo&Associates
FB NO. P-6382

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ENGINEER: RAHUL R MENON, P.E
P.E.Reg No: 130533
DATE: AUGUST 2026

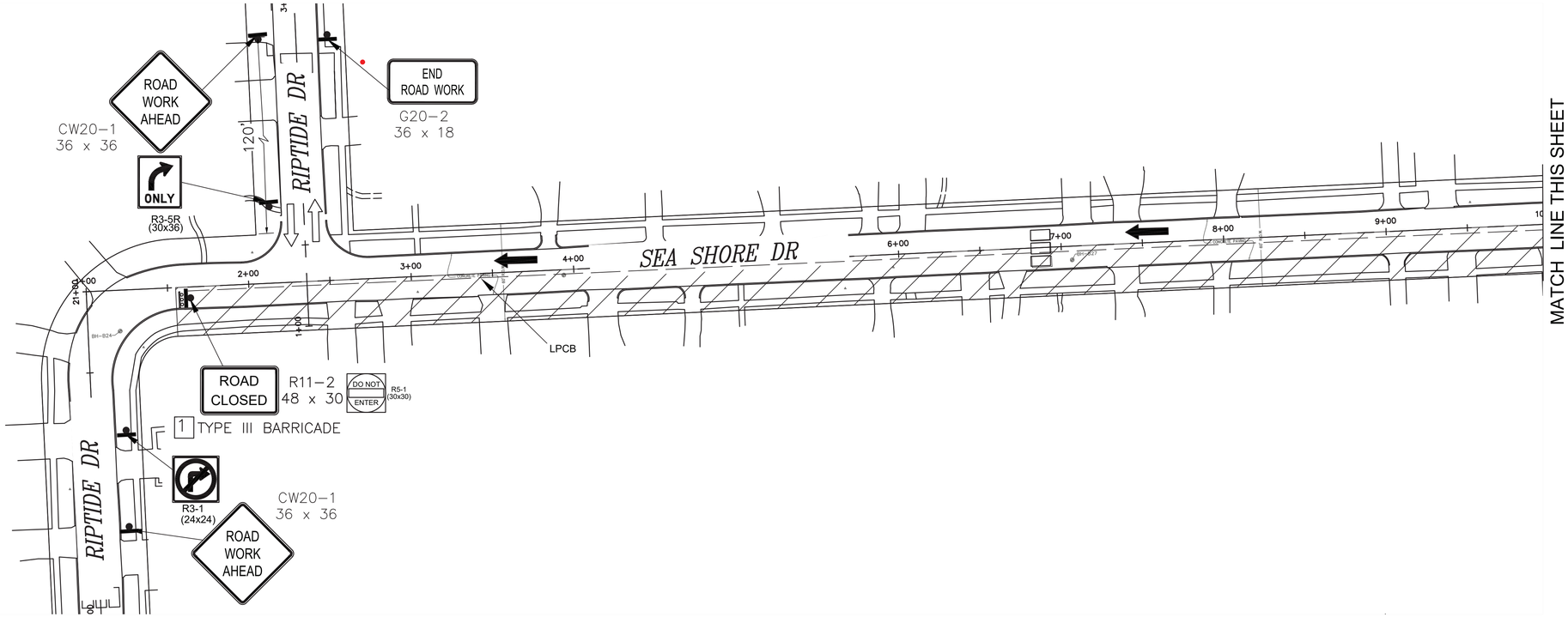
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

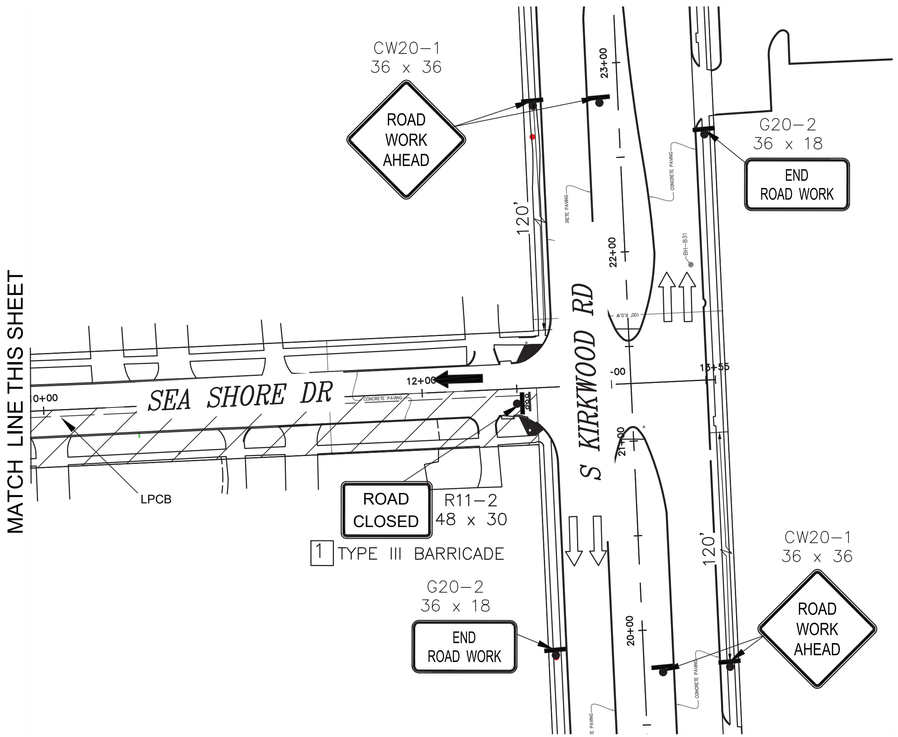
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 5 STEP 9 & 9.1

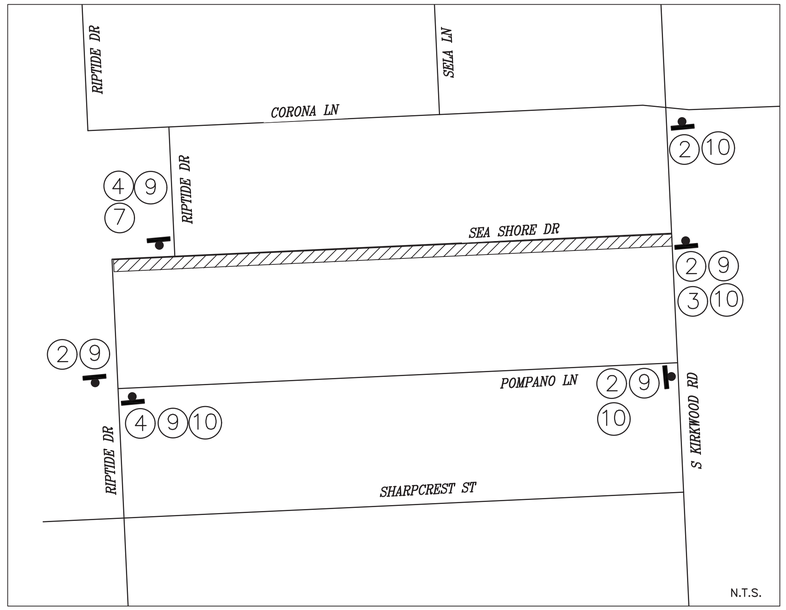
TCP SHEET: 60

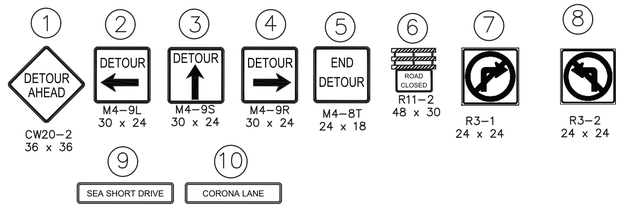
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N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 313 OF 369	

PLOTTED: 8/13/2026 5:10 PM
FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase5.9.dwg









NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.
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3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP:75 TO TCP:80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

NO.	DATE	REVISION	APP.

N

40 0 20 40 80

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 5 STEP 10

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

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P.E. Reg No: 130533
DATE: AUGUST 2026

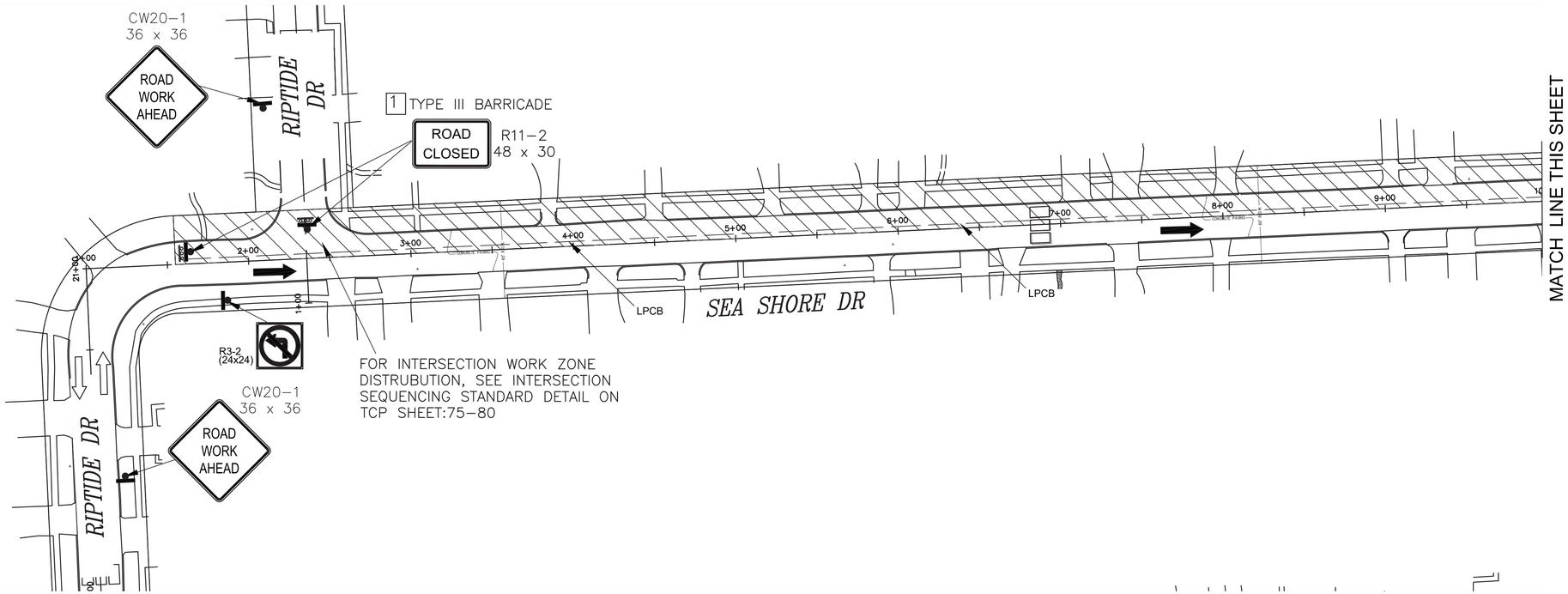
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

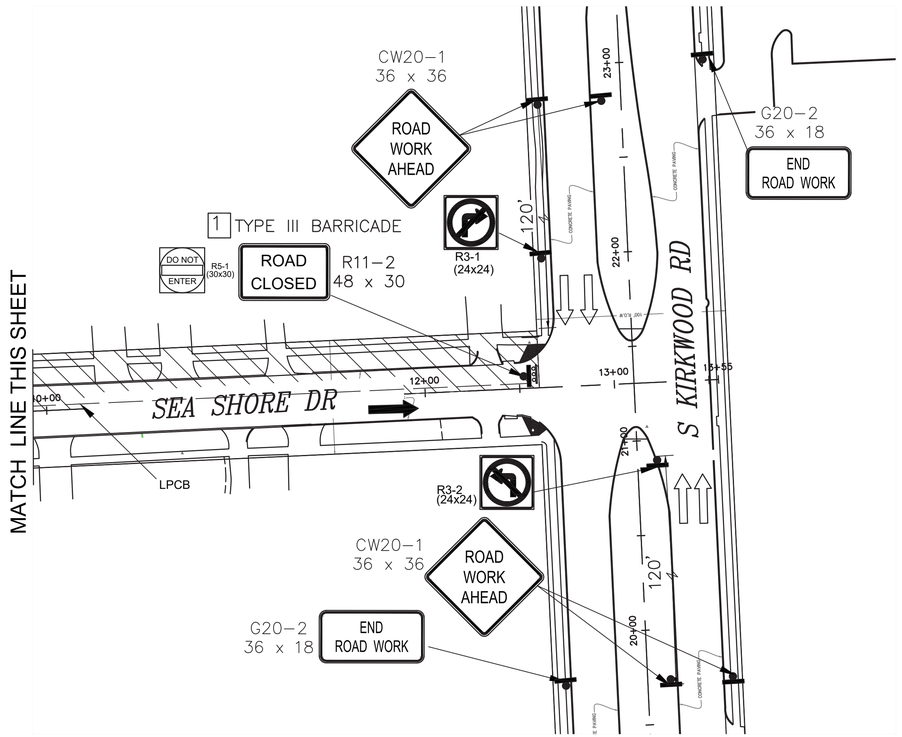
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 5 STEP 10

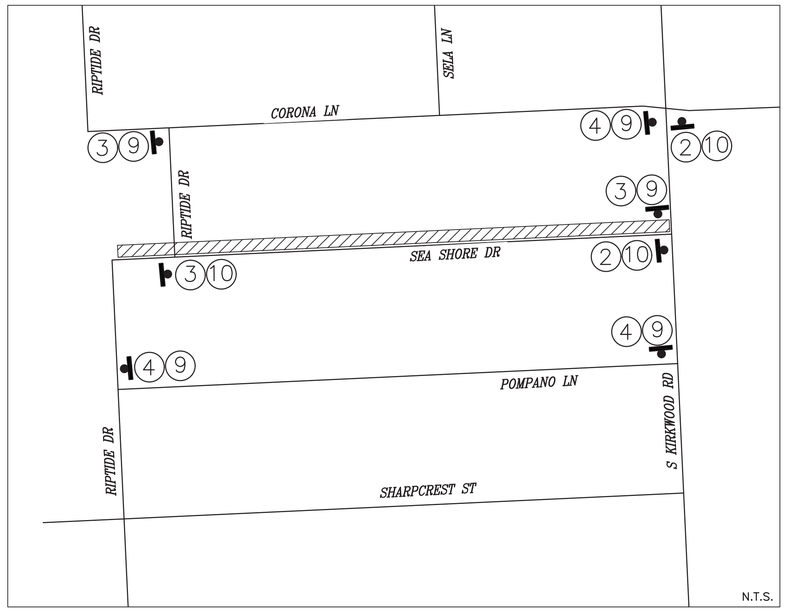
TCP SHEET: 61

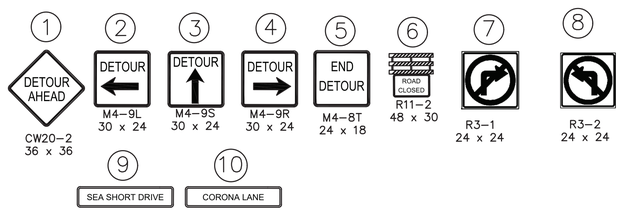
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N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 314 OF 369	

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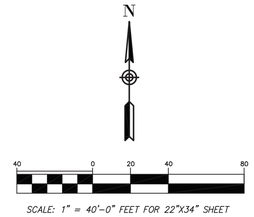






NOTES:

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2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.
3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP: 75 TO TCP: 80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.



SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 5 STEP 11

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

NO.	DATE	REVISION	APP.

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P.E.Reg No: 130533
DATE: AUGUST 2026

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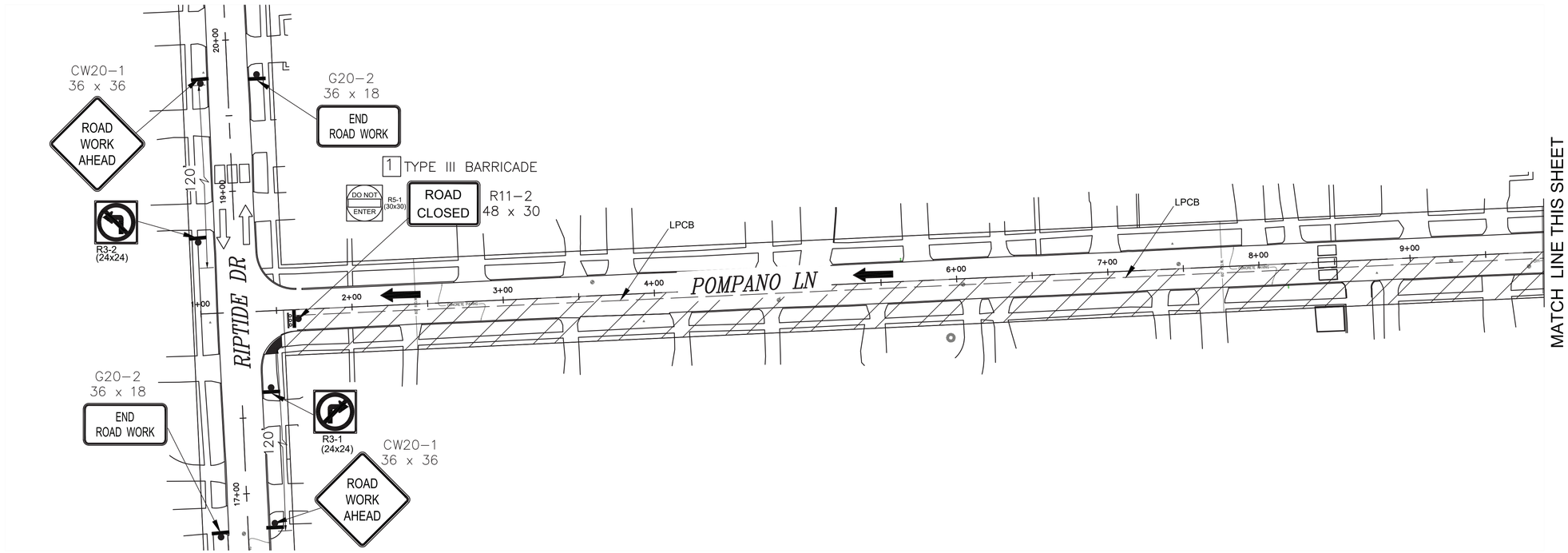
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

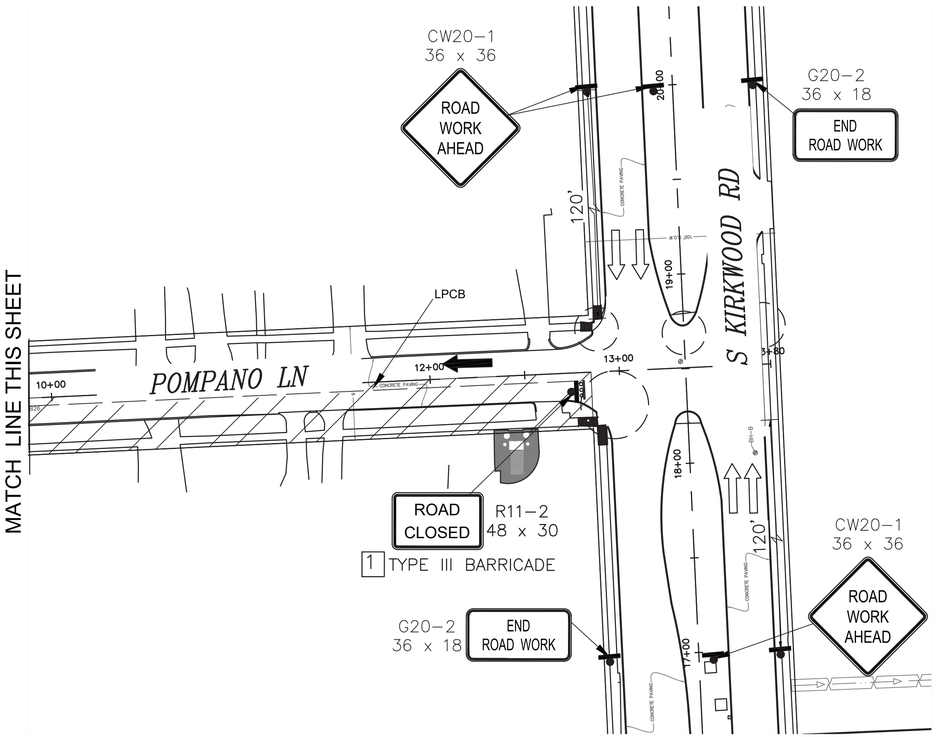
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 5 STEP 11

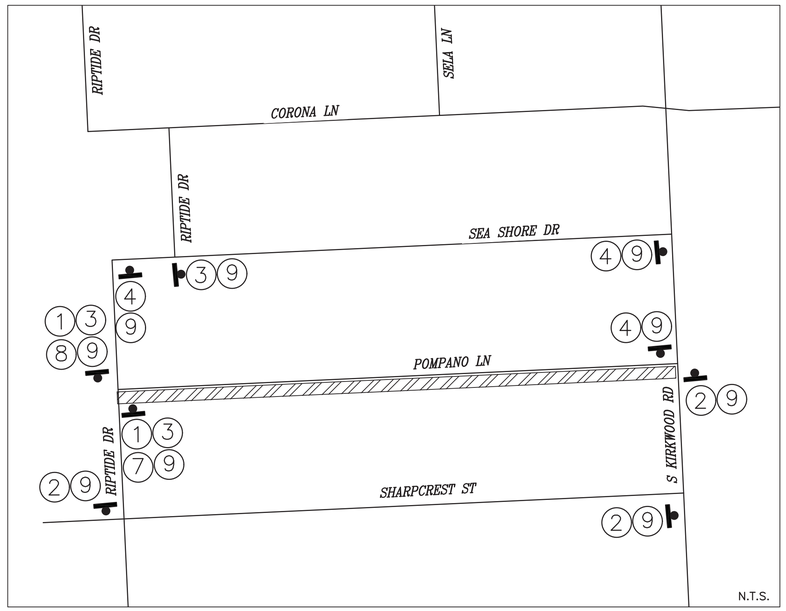
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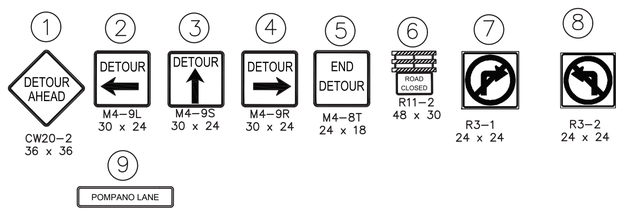
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N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 315 OF 369	

PLOTTED: 8/13/2026 5:11 PM
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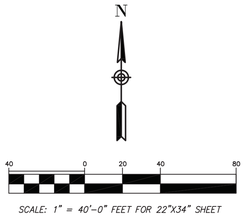






NOTES:

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3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP:75 TO TCP:80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.



PHASE 5 STEP 12

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

NO.	DATE	REVISION	APP.

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10448 Westoffice Drive
Houston, Texas 77042
P 713 747 2399
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SURVEYED BY: Kuo&Associates
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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

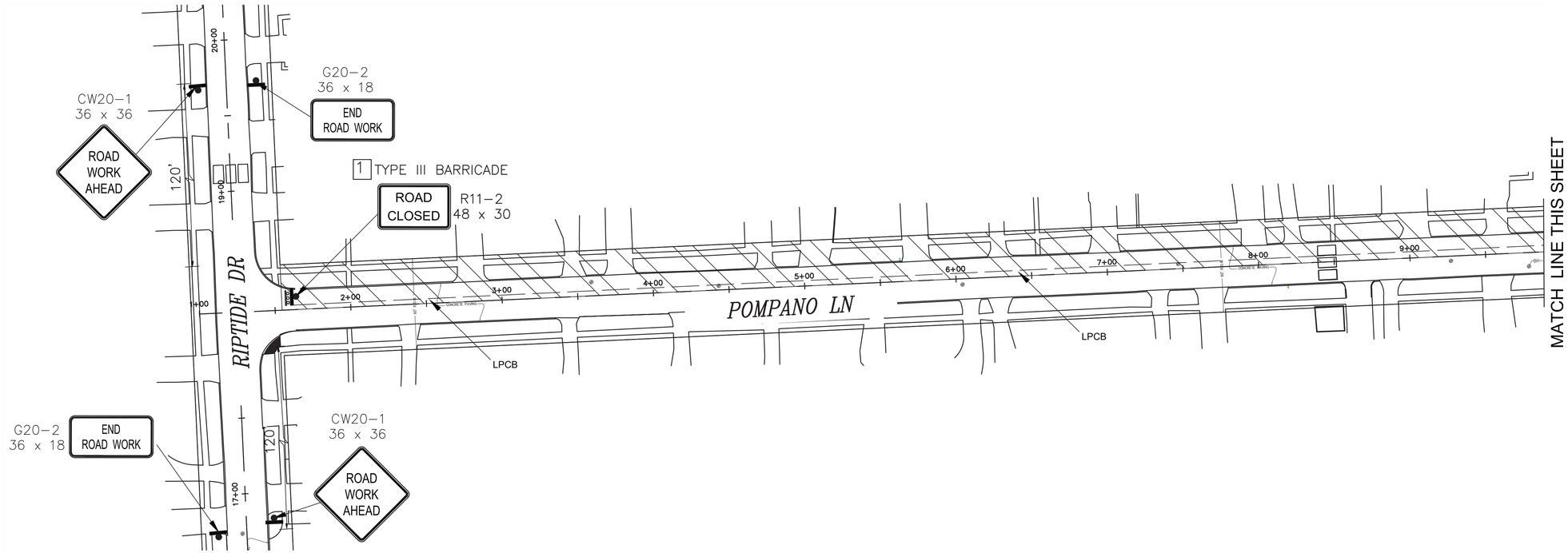
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

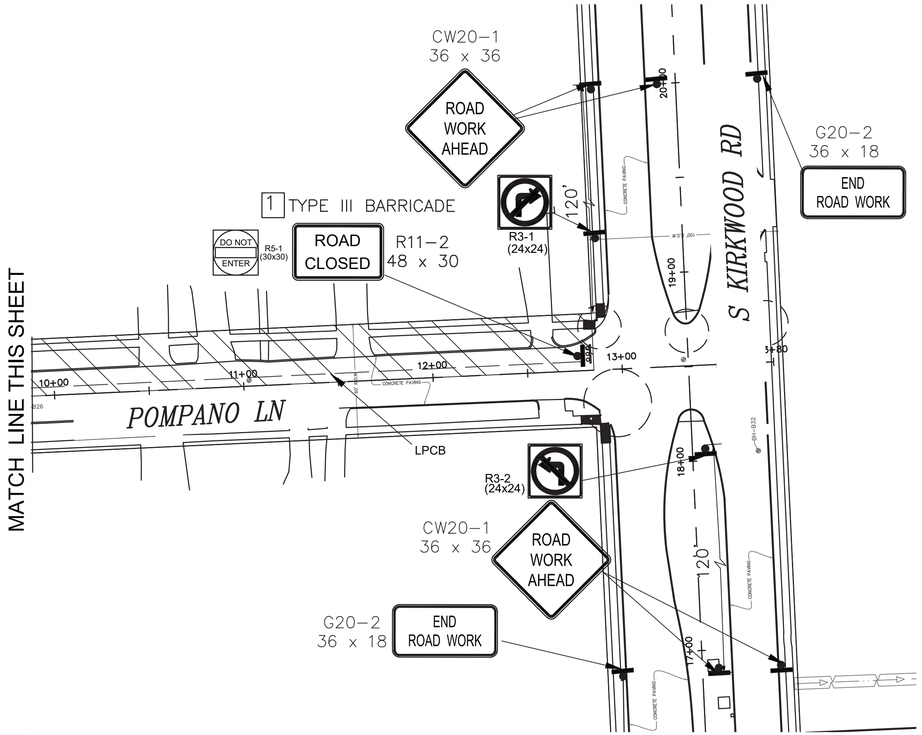
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 5 STEP 12

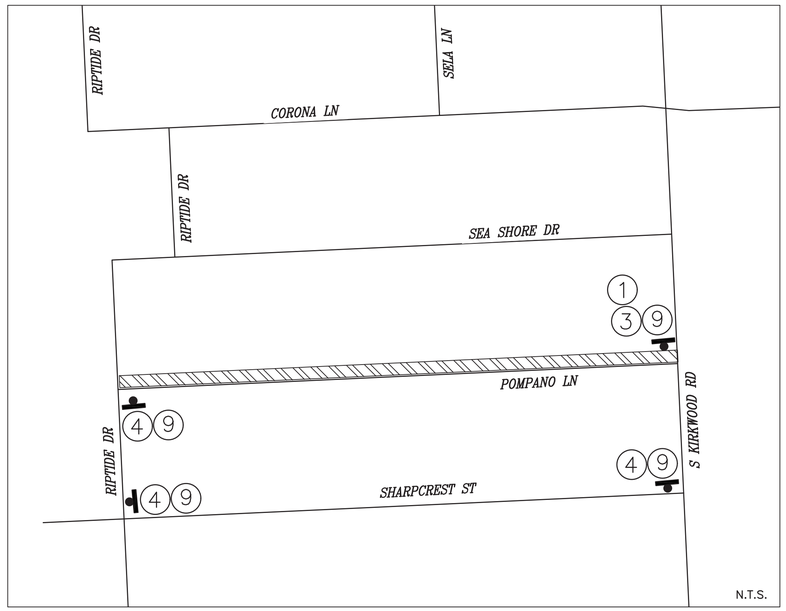
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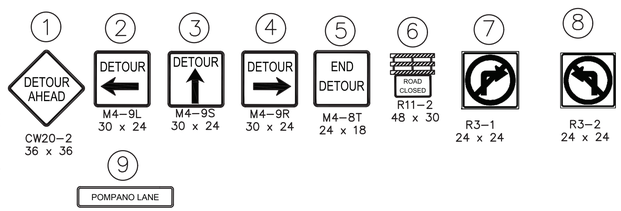
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 316 OF 369	

PLOTTED: 8/13/2026 5:11 PM
FILE PATH: P:\ACTIVE\18PV97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase5.12.dwg



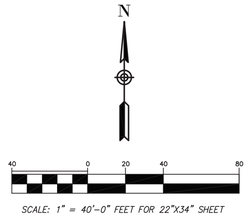






NOTES:

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2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.
3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP: 75 TO TCP: 80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.



SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 5 STEP 13

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

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TBPE Firm Reg. #4575

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FB NO. P-6382

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ENGINEER: RAHUL R MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

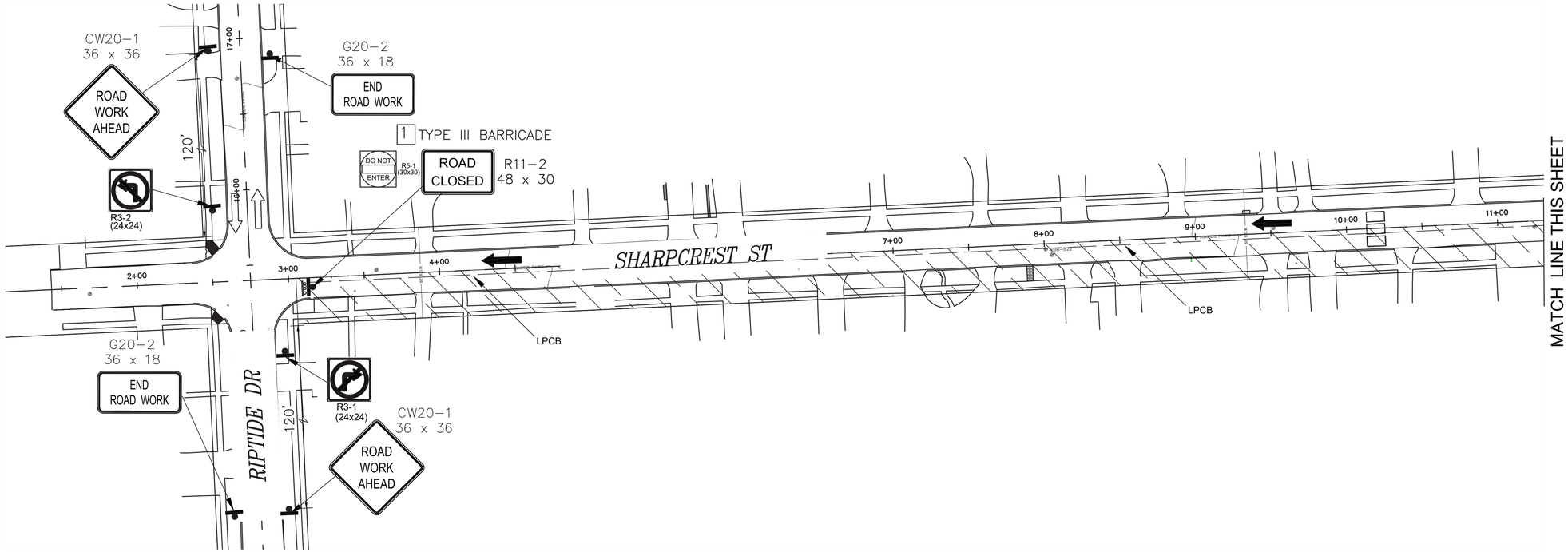
TRAFFIC CONTROL PLANS LAYOUT FOR PHASE 5 STEP 13

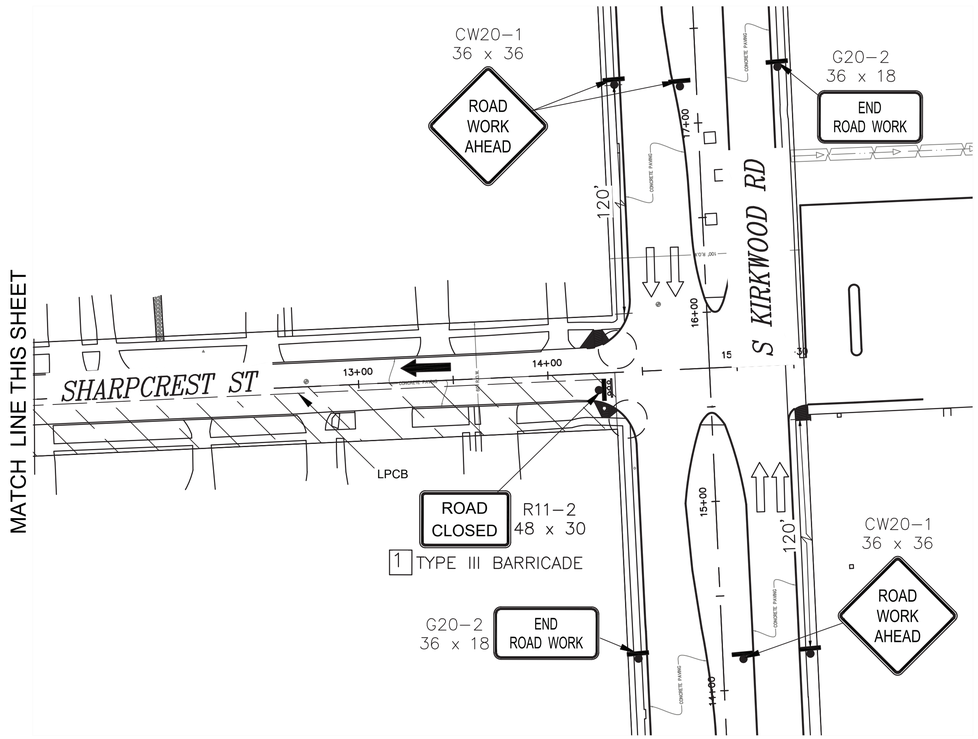
TCP SHEET: 64

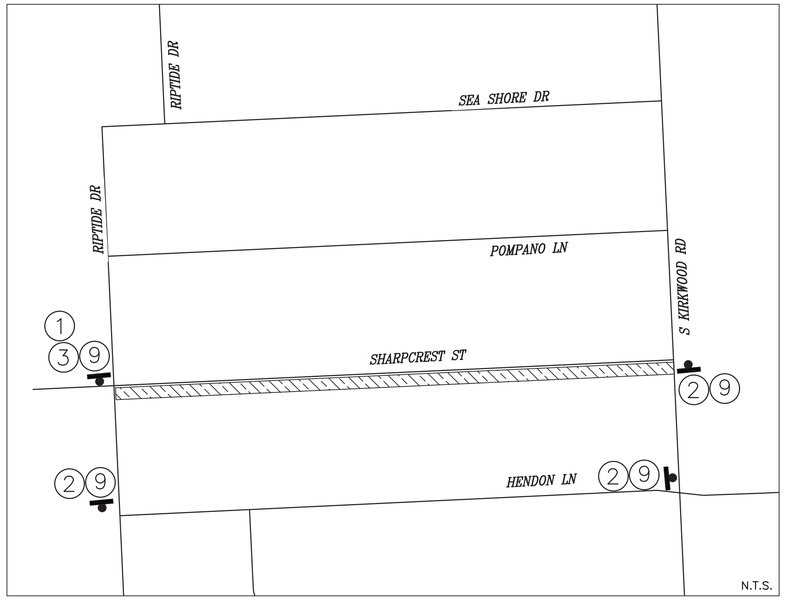
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 317 OF 369	

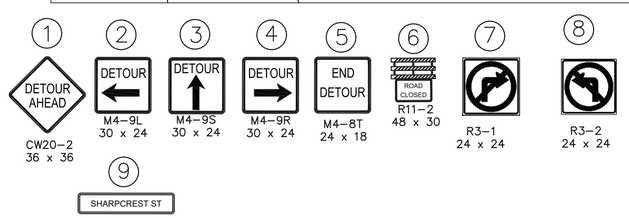
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FILE PATH: P:\ACTIVE\18PV97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase5.13.dwg



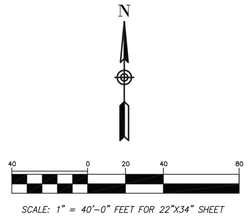






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3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP:75 TO TCP:80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.



SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 5 STEP 14

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

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P.E.Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P-6382

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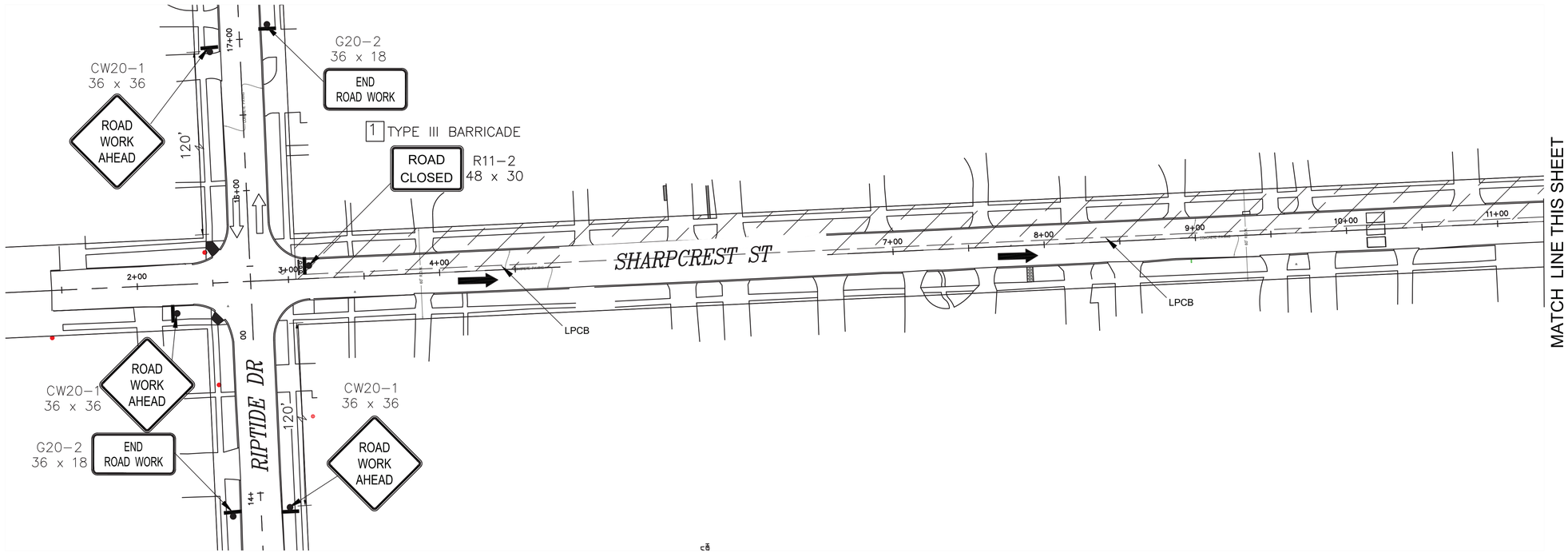
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 5 STEP 14

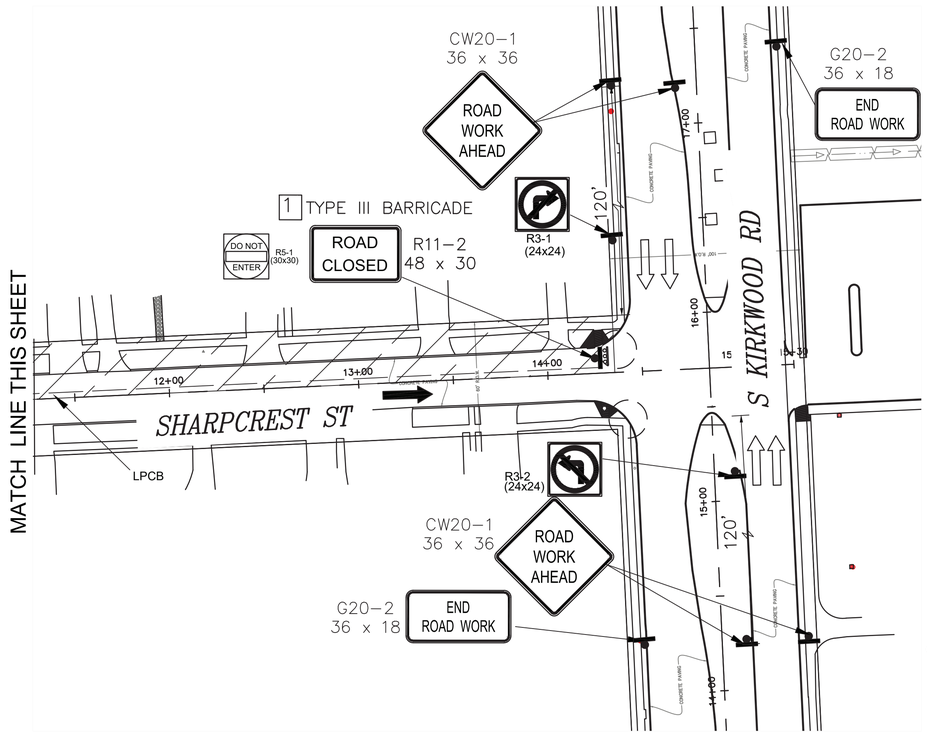
TCP SHEET: 65

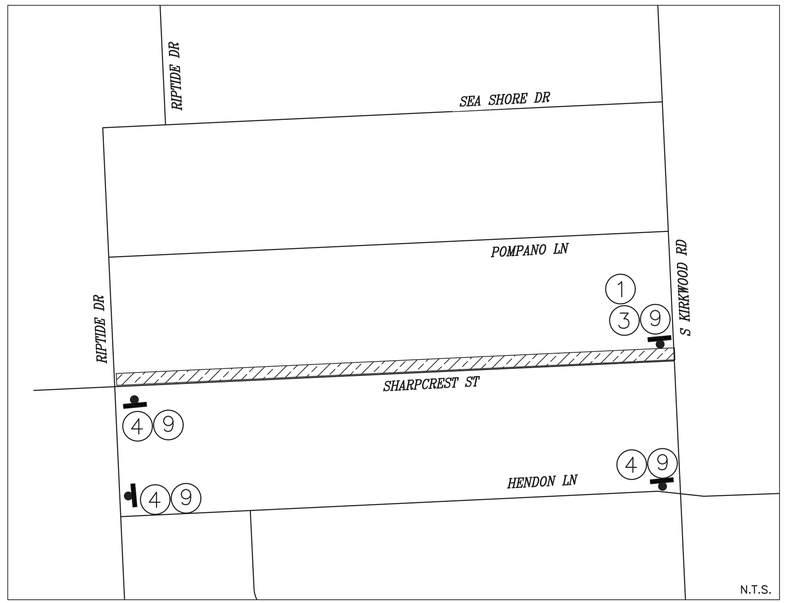
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 318 OF 369	

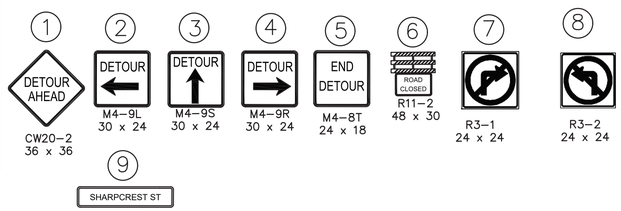
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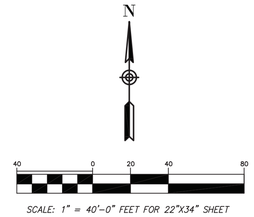




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NO.	DATE	REVISION	APP.



SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 5 STEP 15

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

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P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P-6382

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ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 5 STEP 15

TCP SHEET: 66

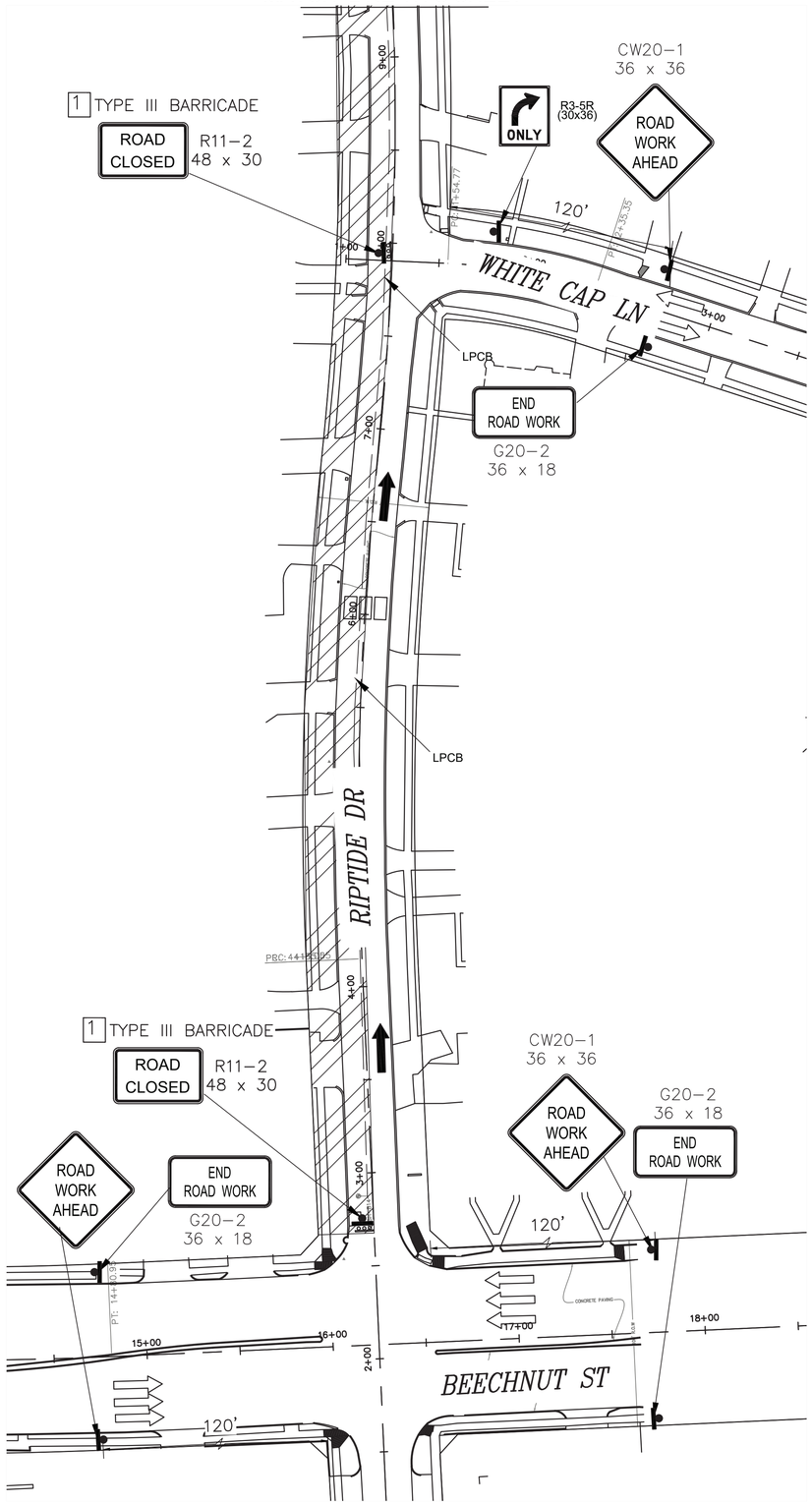
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 319 OF 369	

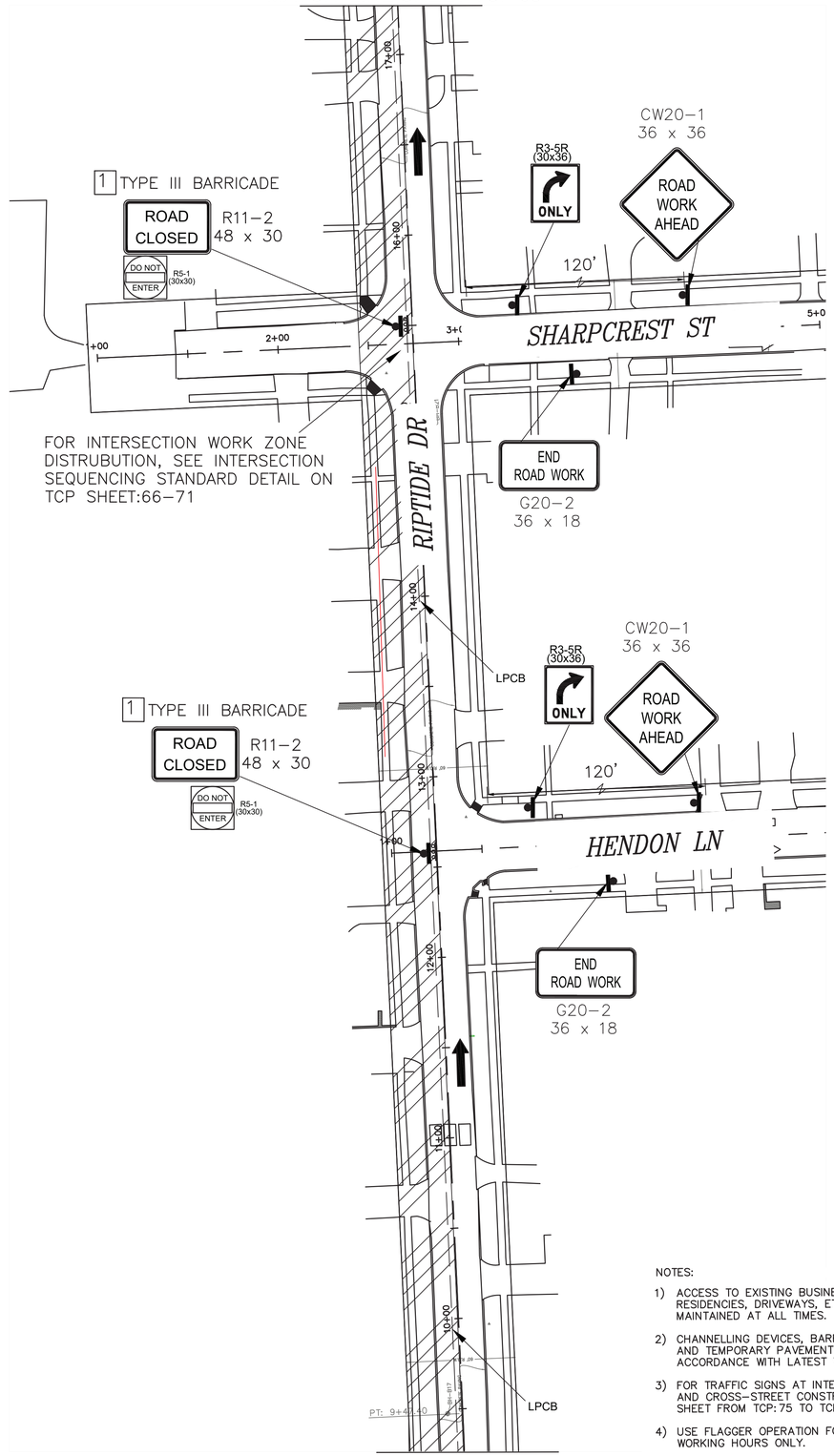
PLOTTED: 8/13/2026 5:11 PM

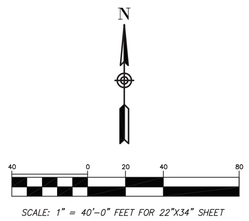
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PLOTTED: 8/13/2026 5:12 PM

FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase5.16.dwg







PHASE 5 STEP 16

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

NOTES:

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4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

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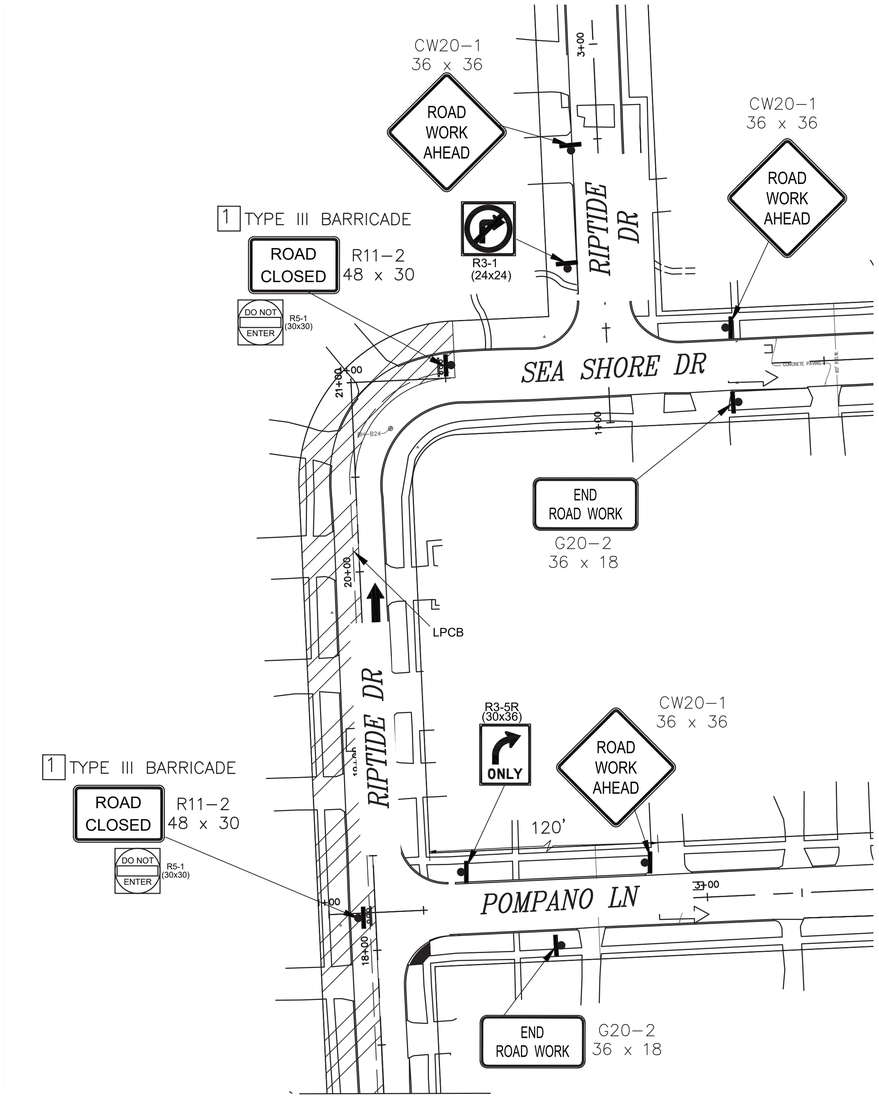
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ENGINEER: RAHUL B MENON, P.E
P.E.Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P-6382

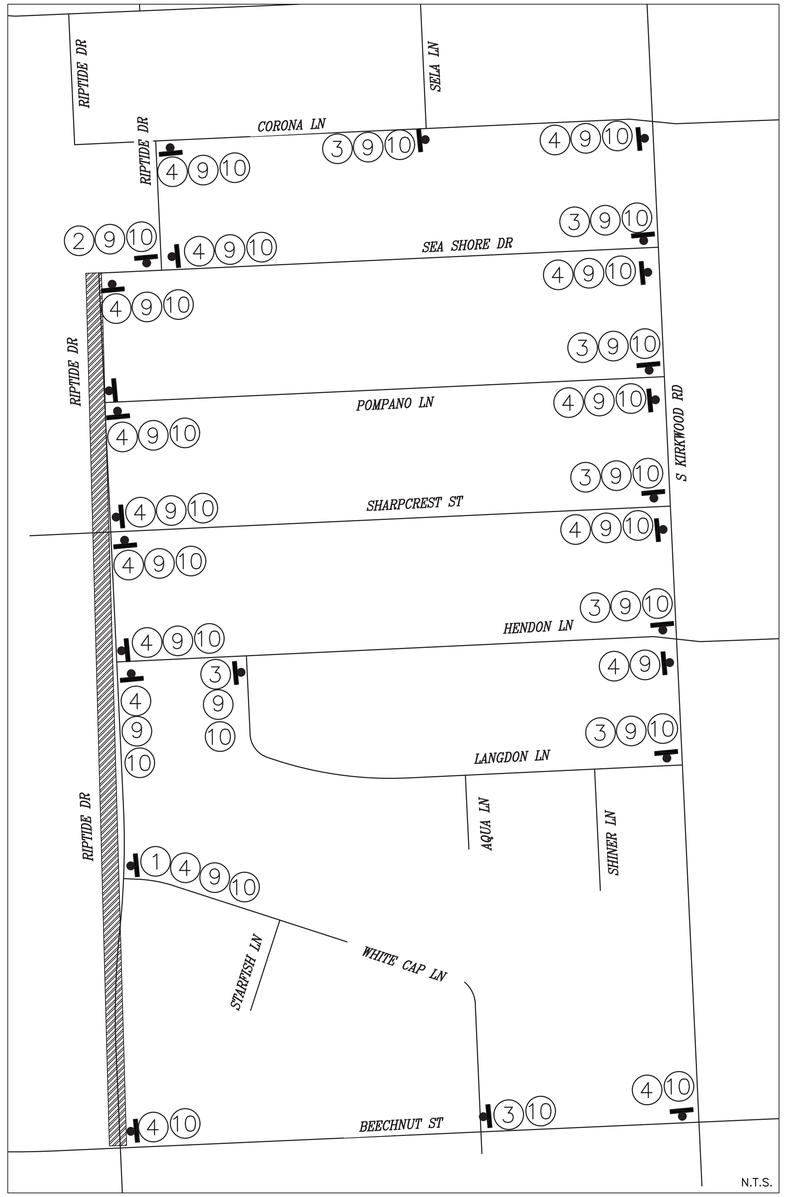
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

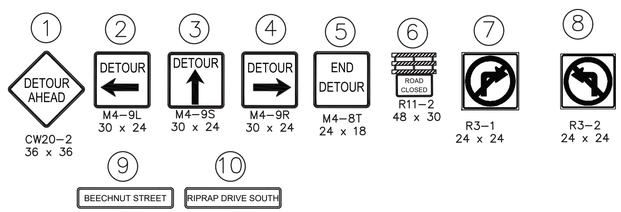
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 5 STEP 16
SHEET 1 OF 2
TCP SHEET: 67

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 320 OF 369	



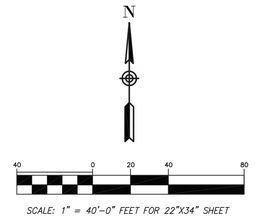
MATCH LINE SHEET TCP 67





NOTES:

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4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.



SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 5 STEP 16

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

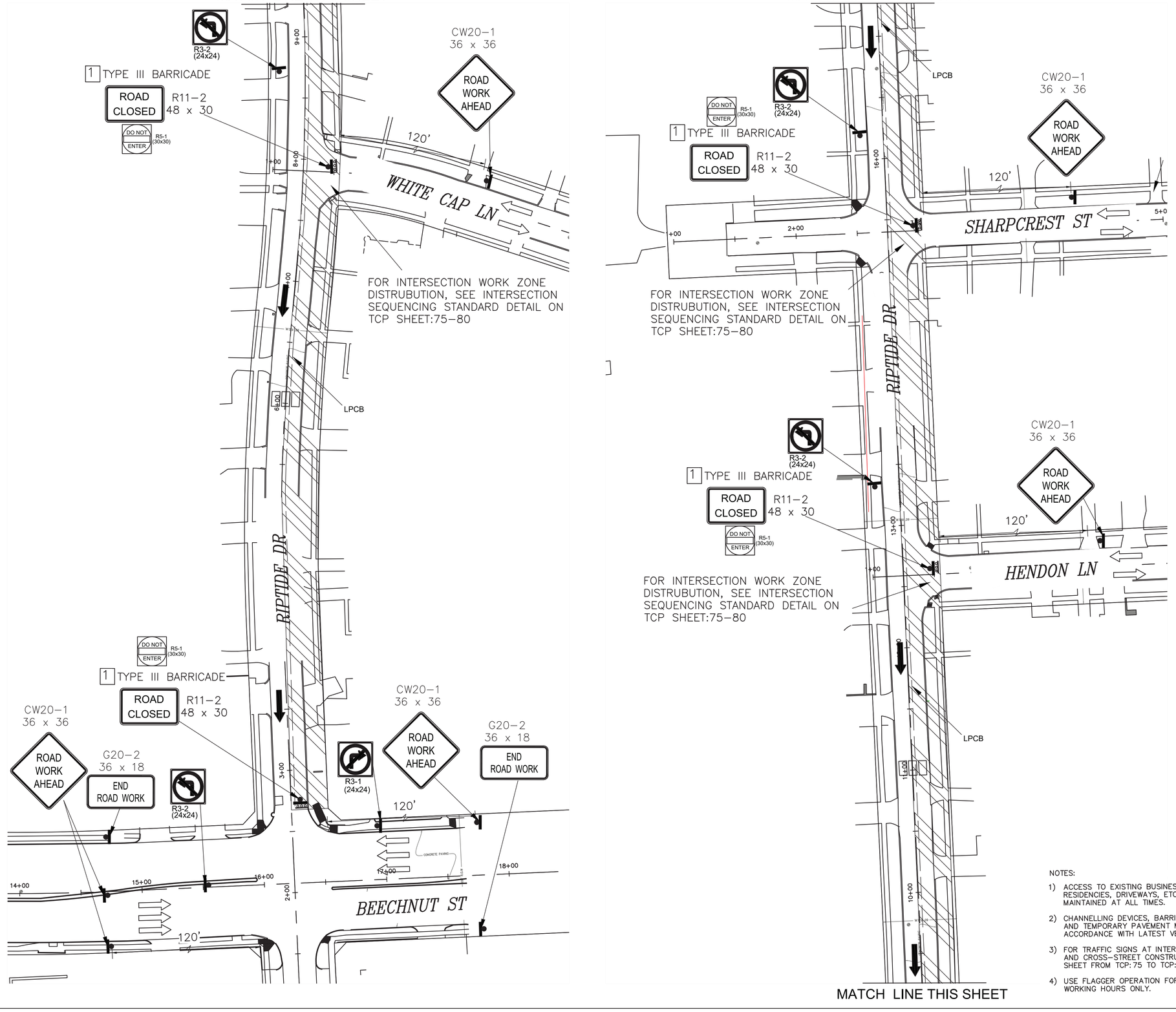
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA
PAVING AND DRAINAGE
IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 5 STEP 16
SHEET 2 OF 2

TCP SHEET: 68

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 321 OF 369	

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NO.	DATE	REVISION	APP.

N

40 0 20 40 80

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 5 STEP 19

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

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P.E. Reg No: 130533
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

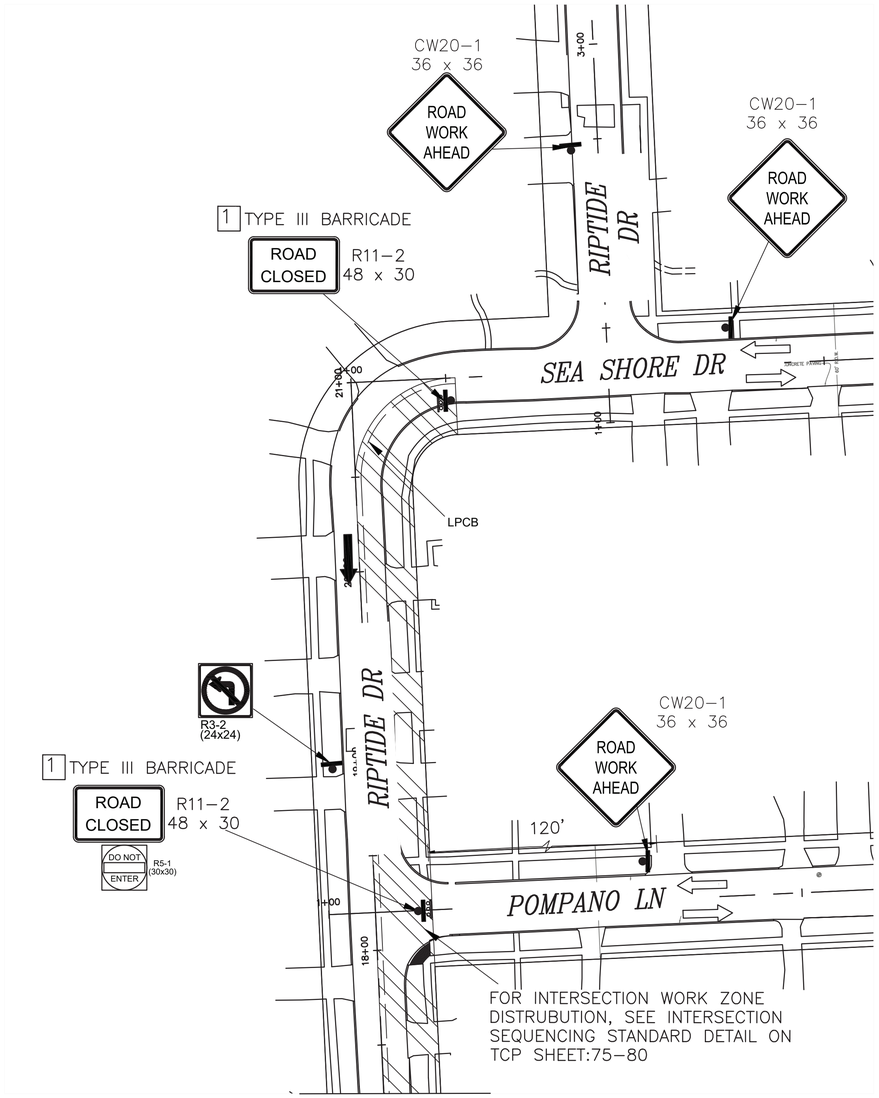
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 5 STEP 17
SHEET 1 OF 2

TCP SHEET: 69

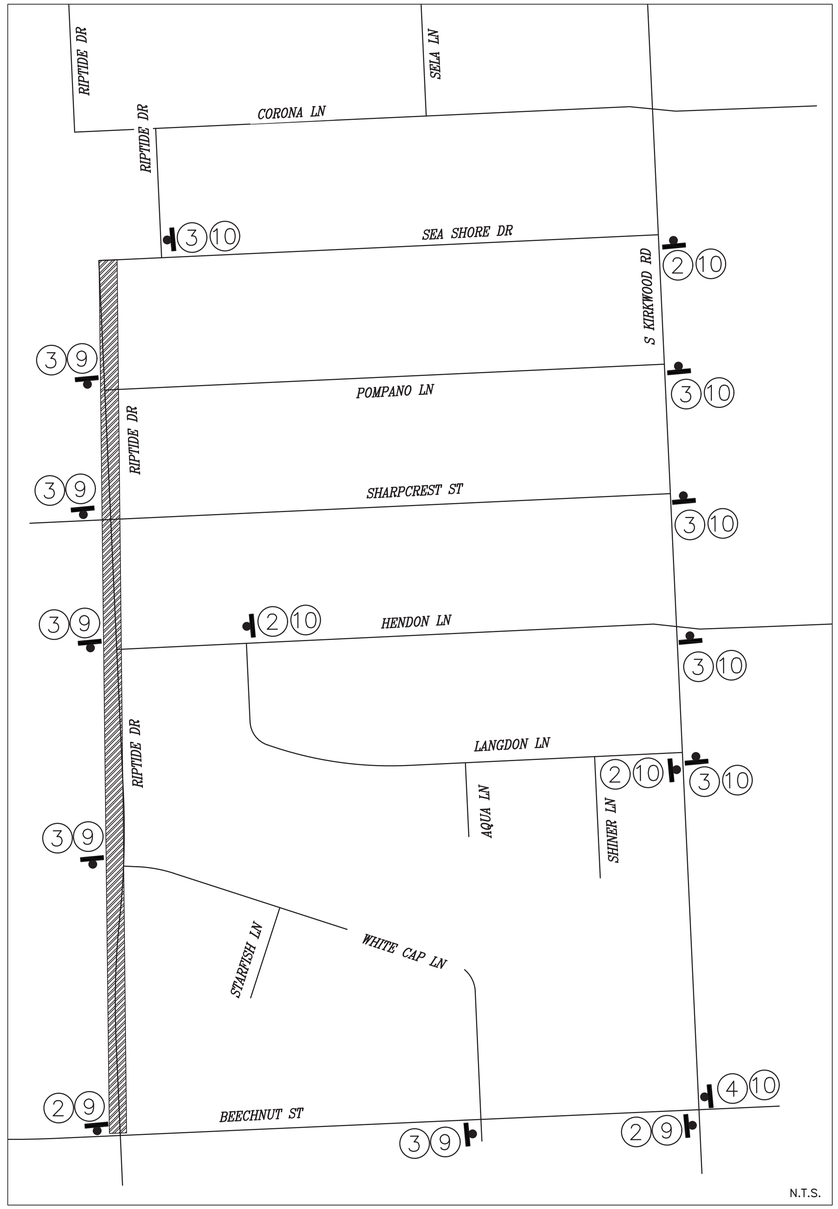
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
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1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 322 OF 369	

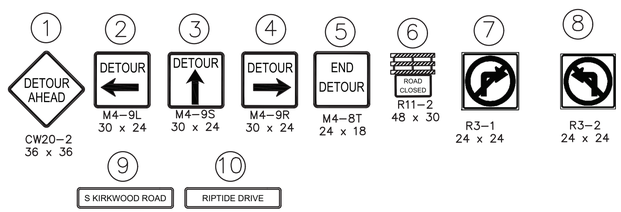
PLOTTED: 8/13/2026 5:12 PM

FILE PATH: P:\ACTIVE\18PV97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase5_17.dwg



MATCH LINE SHEET TCP 69

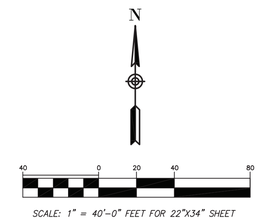




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NO.	DATE	REVISION	APP.



PHASE 5 STEP 17

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

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TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 5 STEP 17
SHEET 2 OF 2
TCP SHEET: 70

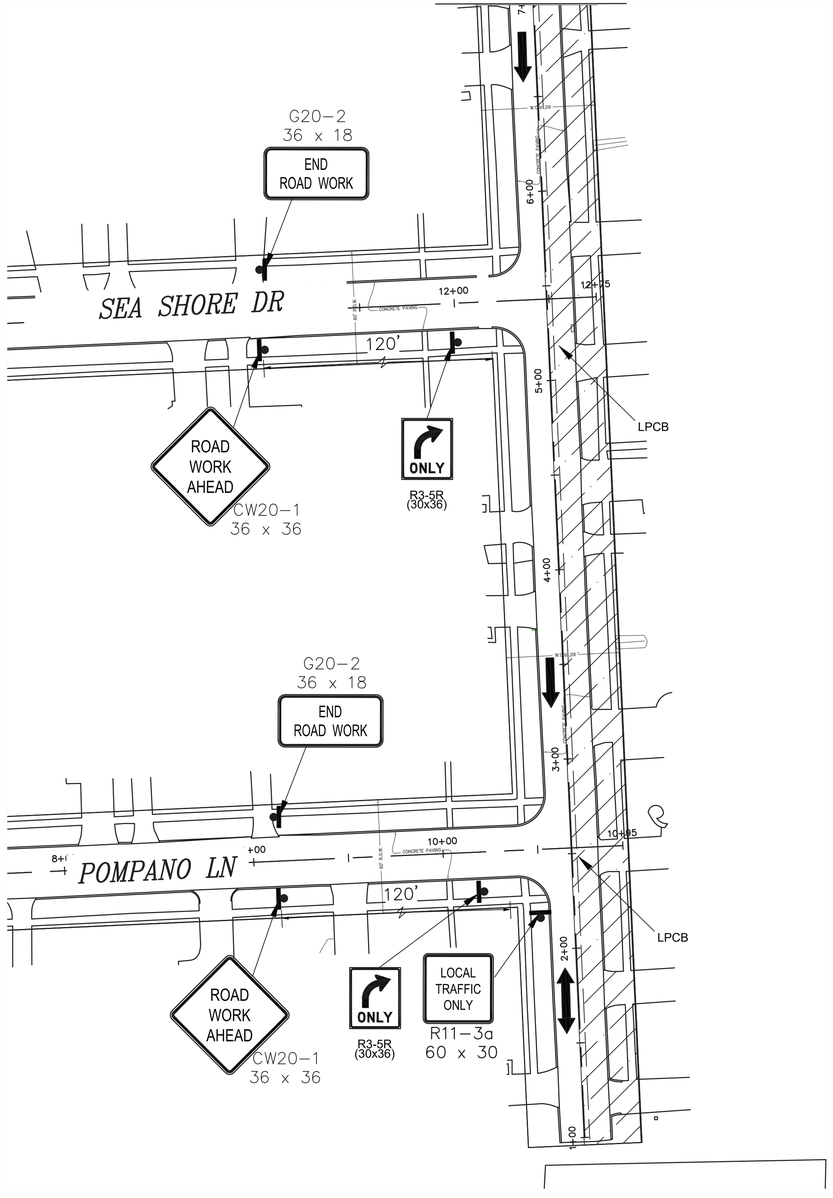
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 323 OF 369	

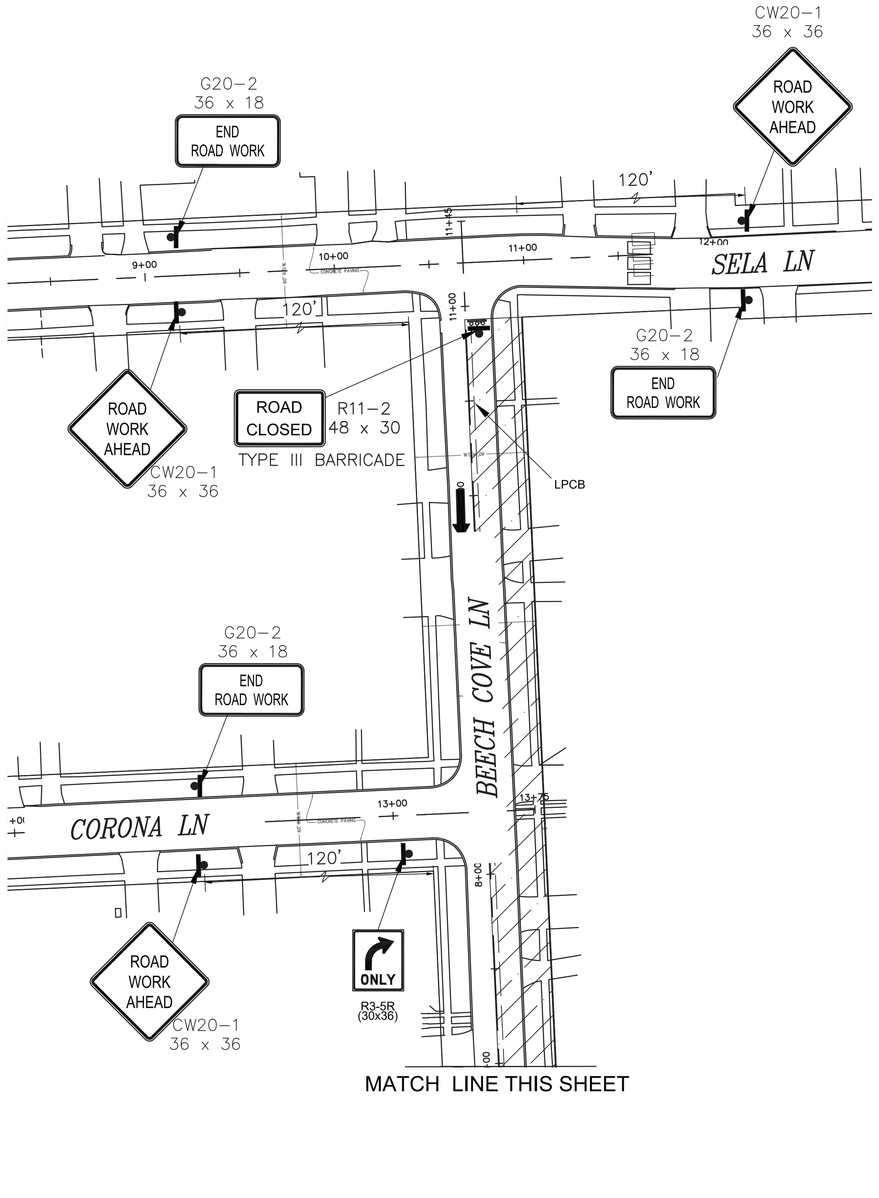
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PLOTTED: 8/13/2026 5:12 PM

FILE PATH: P:\ACTIVE\18PV97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase5_18.dwg

MATCH LINE THIS SHEET





MATCH LINE THIS SHEET

N

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 5 STEP 18

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

NOTES:

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SURVEYED BY: Kuo&Associates
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BIDDING OR CONSTRUCTION
ENGINEER: RAHUL R MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA
PAVING AND DRAINAGE
IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 5 STEP 18
SHEET 1 OF 2
TCP SHEET: 71

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 324 OF 369	

PLOTTED: 8/13/2026 5:12 PM

FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Phase5.18.dwg

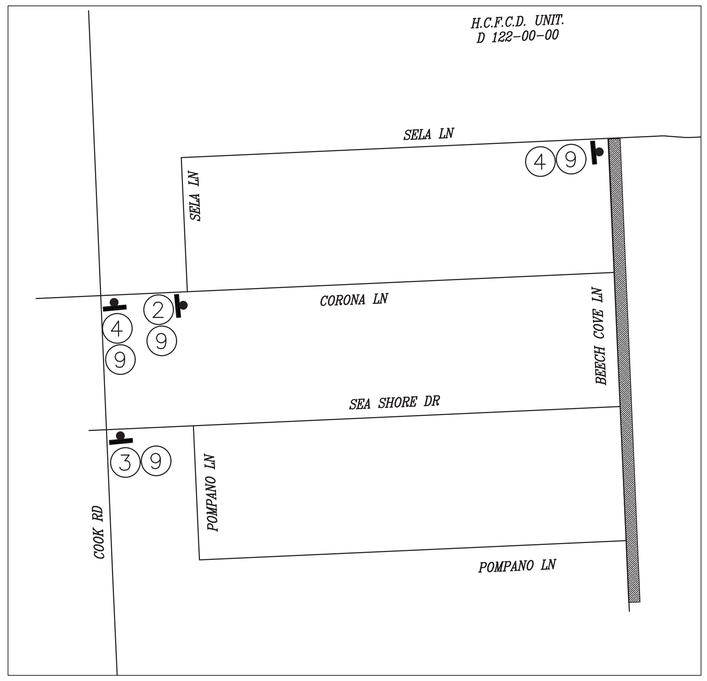
NO.	DATE	REVISION	APP.

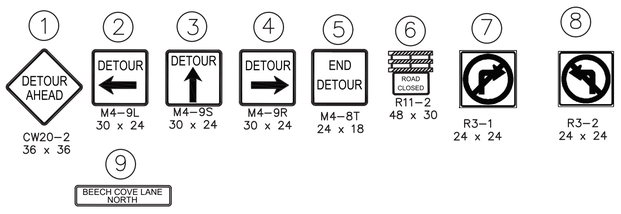
N

40 0 20 40 80

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 5 STEP 18





LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.
2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.
3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP: 75 TO TCP: 80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

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F 713 748 3748
TBPE Firm Reg. #4575

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P-6382

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

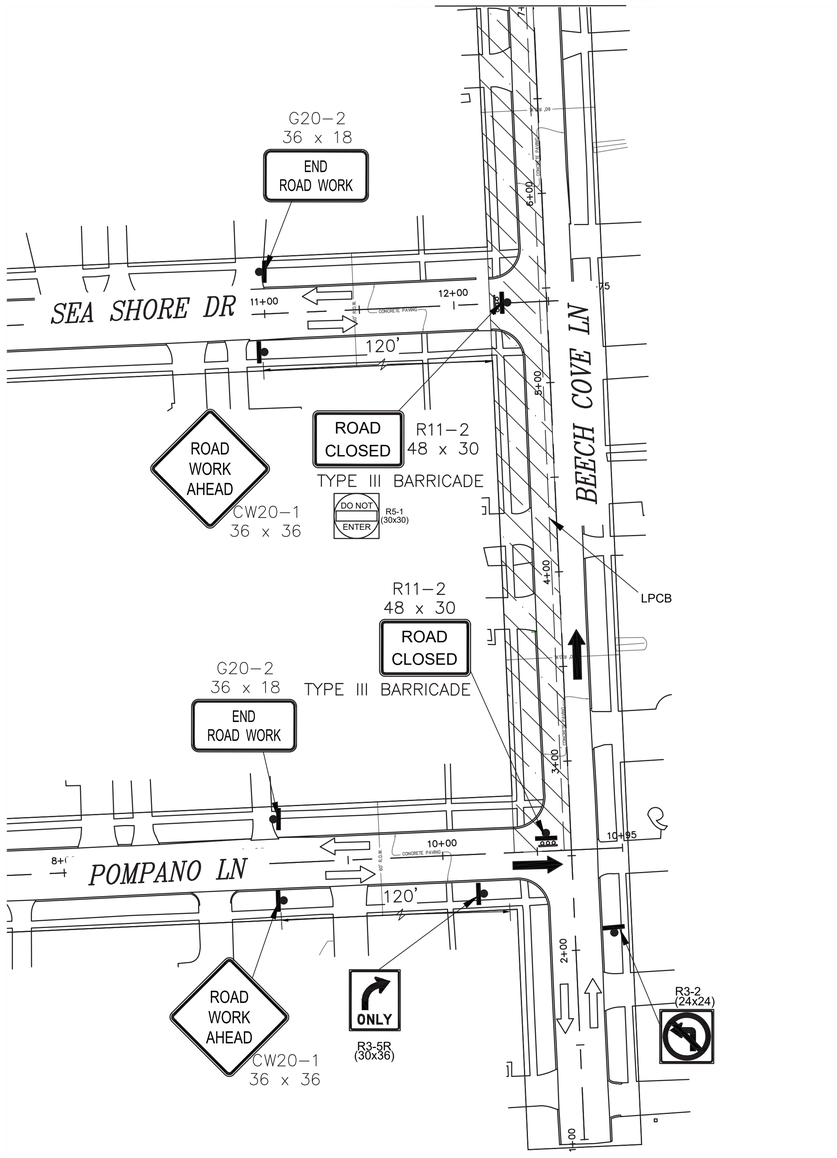
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 5 STEP 18
SHEET 2 OF 2
TCP SHEET: 72

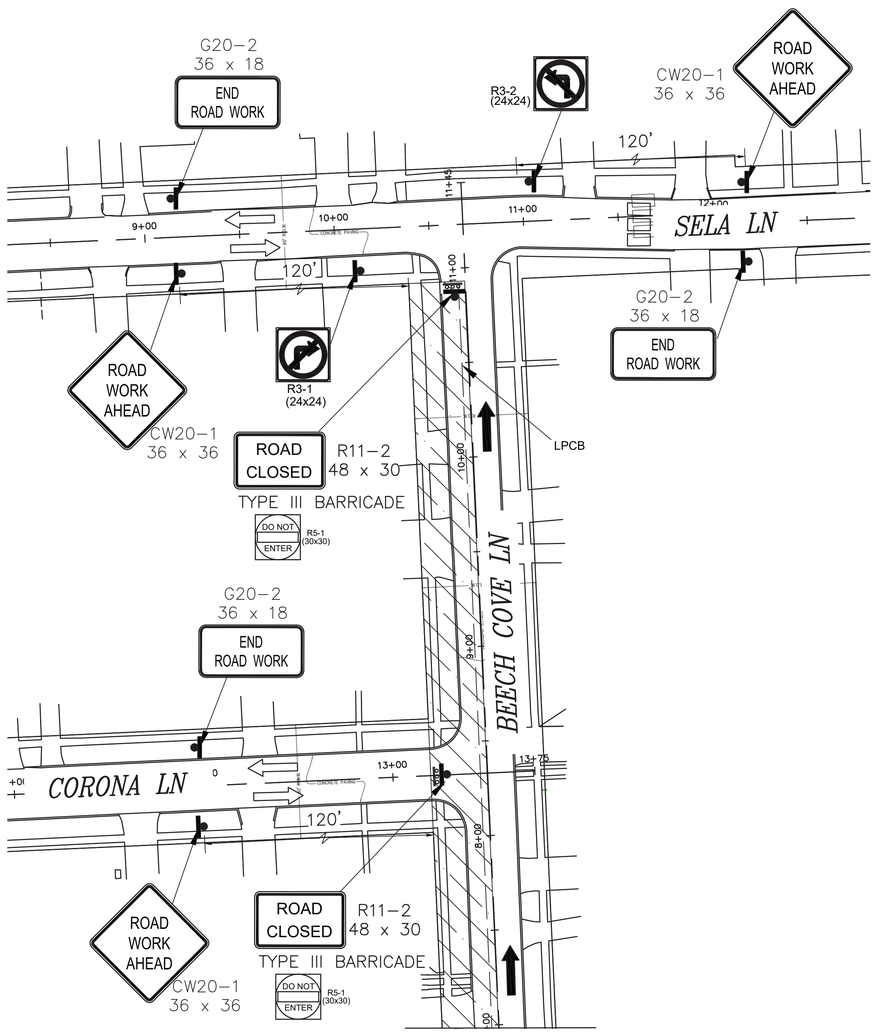
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N-210015-0001-3	
DRAWING SCALE	
N.T.S.	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 325 OF 369	

PLOTTED: 8/13/2026 5:12 PM

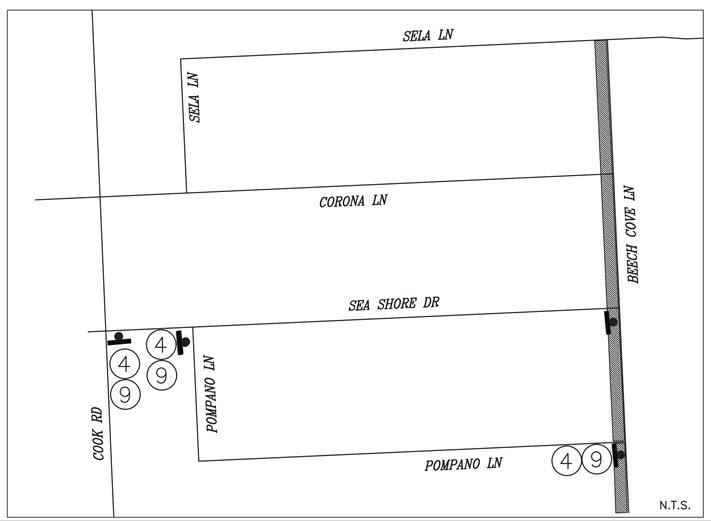
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MATCH LINE THIS SHEET





MATCH LINE THIS SHEET



NOTES:

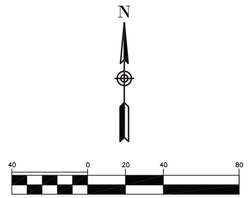
1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.

2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.

3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP:75 TO TCP:80.

4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

NO.	DATE	REVISION	APP.

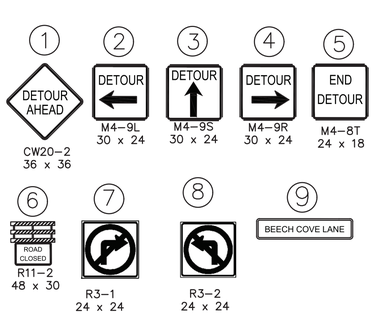


SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 5 STEP 19

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER



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FB NO. P-6382

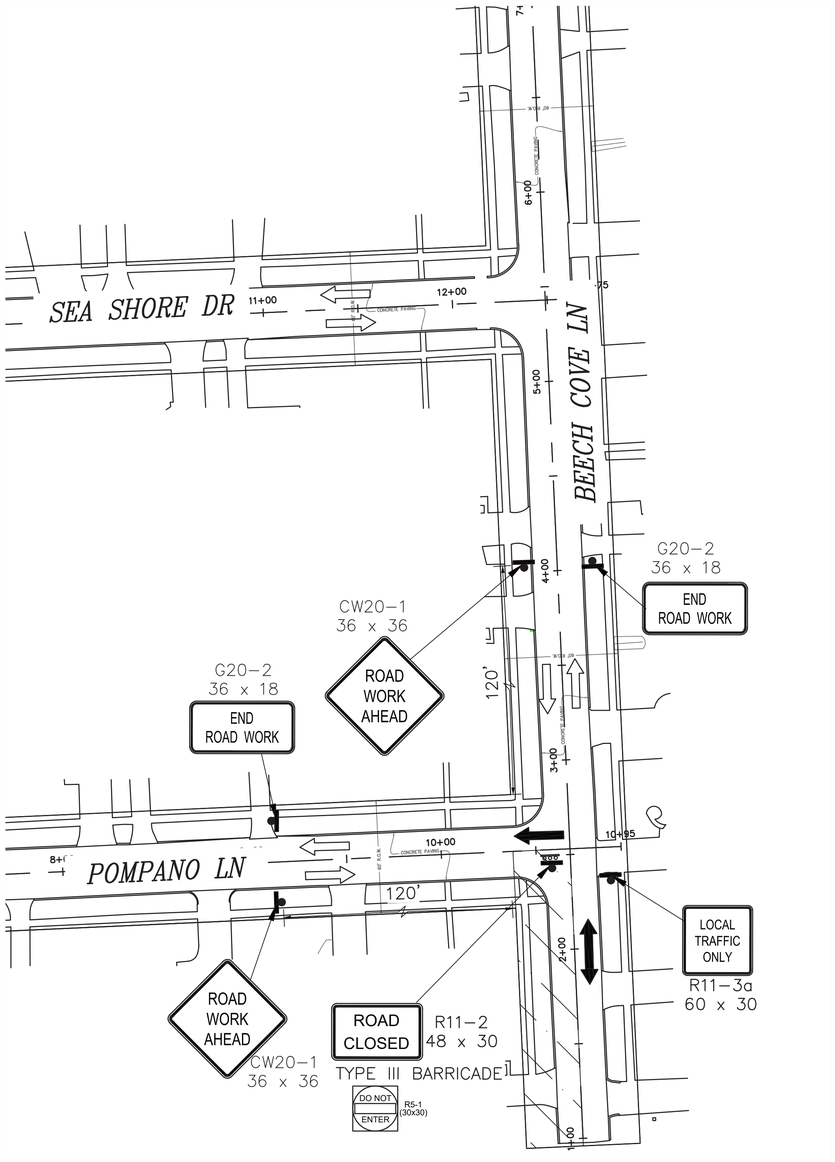
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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

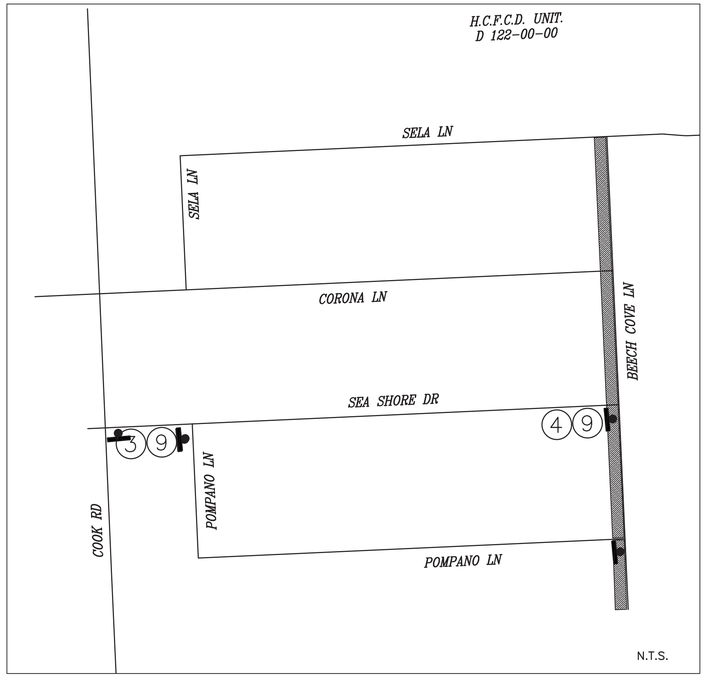
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

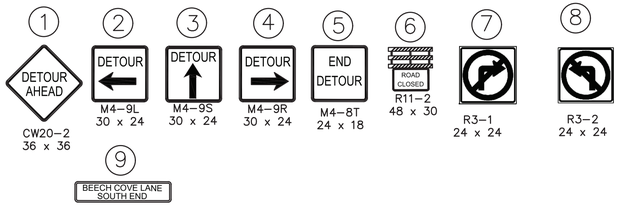
ALIEF FOREST SOUTH AREA
PAVING AND DRAINAGE
IMPROVEMENTS
TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 5 STEP 19

TCP SHEET: 73

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 326 OF 369	







NOTES:

1) ACCESS TO EXISTING BUSINESSES, RESIDENCIES, DRIVEWAYS, ETC SHALL BE MAINTAINED AT ALL TIMES.
2) CHANNELLING DEVICES, BARRICADES, TRAFFIC SIGNS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN ACCORDANCE WITH LATEST VERSION OF TEXAS MUTCD.
3) FOR TRAFFIC SIGNS AT INTERSECTIONS AND CROSS-STREET CONSTRUCTION, PLEASE REFER SHEET FROM TCP: 75 TO TCP: 80.
4) USE FLAGGER OPERATION FOR TRAFFIC FLOW DURING WORKING HOURS ONLY.

NO.	DATE	REVISION	APP.

N

40 0 20 40 80

SCALE: 1" = 40'-0" FEET FOR 22"X34" SHEET

PHASE 5 STEP 19.1

LEGEND:

- PROPOSED SIGN POST
- TYPE III BARRICADE
- PROPOSED TRAFFIC FLOW
- EXISTING TRAFFIC FLOW
- PLASTIC DRUM, CONE, OR TUBULAR MARKER

NOTICE:
FOR YOUR SAFETY, YOU ARE REQUIRED BY TEXAS LAW TO CALL 811 AT LEAST 48 HOURS BEFORE YOU DIG SO THAT UNDERGROUND LINES CAN BE MARKED. THIS SIGNATURE DOES NOT FULFILL YOUR OBLIGATION TO CALL 811

VERIFICATION OF PRIVATE UTILITY LINES

Date

CenterPoint Energy natural gas utilities shown. (Gas service lines are not shown). This signature not be used for conflict verification.

Signature valid for six months.

Date

CenterPoint Energy/UNDERGROUND Electrical Facilities Verification ONLY. (This signature verifies existing underground facilities – not to be used for conflict verification)

Signature valid for six months.

Date

Approved for AT&T underground conduit facilities only.
Signature valid for one year.

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P-6382

CITY OF HOUSTON
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ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

TRAFFIC CONTROL PLANS
LAYOUT FOR PHASE 5 STEP 19.1

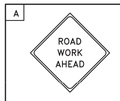
TCP SHEET: 74

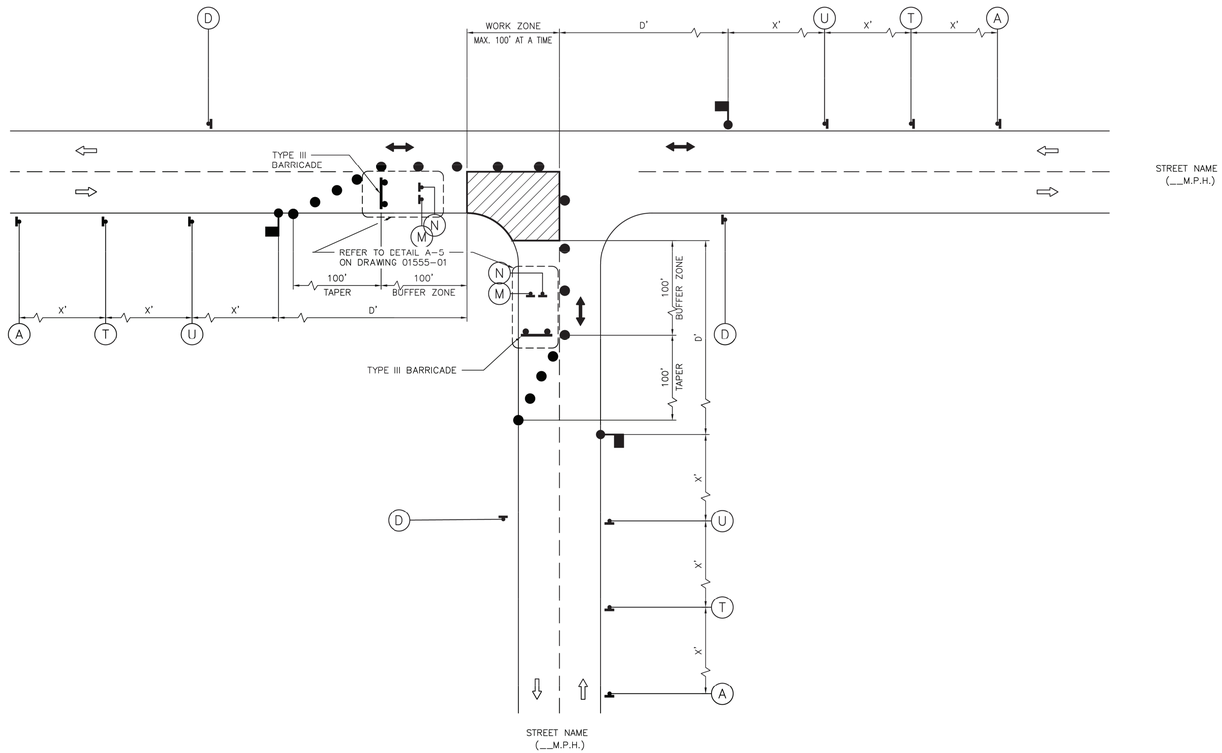
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 327 OF 369	

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A	T	U	D	M	N
					
CW20-1	CW20-4	CW20-7	G20-2	R5-1	R11-2



LEGEND:

- SIGN
- FLAGGER
- APPROVED CHANNELIZATION DEVICE
- BARRICADE
- FLASHING ARROW PANEL
- AREA UNDER CONSTRUCTION
- EXISTING TRAVEL WAY
- TRAFFIC CONTROL PLAN DETOUR TRAVEL WAY

NOTES:

1. MINOR WORK AND DAYTIME OPERATIONS ONLY.
2. REFER TO PROJECT SPECIFIC TRAFFIC CONTROL PLANS FOR MAJOR OPERATIONS AND OVERNIGHT LANE CLOSURES.
3. FOR DIMENSIONS REFER TO SHEET 01555-01.
4. INSTALL FLASHERS ON DRUMS WHERE REQUIRED AND APPROVED BY CITY TRAFFIC ENGINEER.
5. MAX. 100' WORK ZONE AT A TIME.

NO.	DATE	REVISION	APP.

APPROVED BY:	APPROVED BY:
DocuSigned by: Sukat Kalsawar 9EFB80C61F1547E...	DocuSigned by: KHANG NGUYEN 95A29EF0A758ACD...
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY: DocuSigned by: Carol Haddock ASDCA1DE1A5A4E8...	
DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV-27-2023	DWG NO: 01555-07

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

TCP TYPICAL CONSTRUCTION ZONE AT A T-INTERSECTION PHASE 2 OF 3

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P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
TYPICAL CONSTRUCTION ZONE AT A T-INTERSECTION SHEET 1 OF 2
TCP SHEET: 75

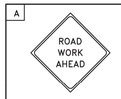
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 328 OF 369	

DISCLAIMER:
THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. THE DESIGN REQUIREMENTS ON THIS STANDARD DO NOT PURPORT TO ADDRESS ALL OF THE SAFETY CONCERNS ASSOCIATED WITH THEIR USE. THE ENGINEER OF RECORD (EOR) IS TO REVIEW THESE DESIGN REQUIREMENTS AND BY AUTHORIZING THEIR USE, ACCEPTS RESPONSIBILITY FOR THEIR APPLICABILITY, ADEQUACY AND SAFETY. NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER. THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

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A	T	U	D	M	N
					
CW20-1	CW20-4	CW20-7	G20-2	R5-1	R11-2

LEGEND:

- SIGN
- FLAGGER
- APPROVED CHANNELIZATION DEVICE
- BARRICADE
- FLASHING ARROW PANEL
- AREA UNDER CONSTRUCTION
- EXISTING TRAVEL WAY
- TRAFFIC CONTROL PLAN DETOUR TRAVEL WAY

NOTES:

1. MINOR WORK AND DAYTIME OPERATIONS ONLY.
2. REFER TO PROJECT SPECIFIC TRAFFIC CONTROL PLANS FOR MAJOR OPERATIONS AND OVERNIGHT LANE CLOSURES.
3. FOR DIMENSIONS REFER TO SHEET 01555-01.
4. INSTALL FLASHERS ON DRUMS WHERE REQUIRED AND APPROVED BY CITY TRAFFIC ENGINEER.
5. MAX. 100' WORK ZONE AT A TIME.

APPROVED BY:	APPROVED BY:
DocuSigned by: Sukai Kanwar	DocuSigned by: KHANG NGUYEN
CITY ENGINEER	CITY TRAFFIC ENGINEER

APPROVED BY:
DocuSigned by: Carol Haddock
DIRECTOR OF HOUSTON PUBLIC WORKS

EFF DATE: NOV-27-2023	DWG NO: 01555-08

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

TCP TYPICAL CONSTRUCTION ZONE AT A T-INTERSECTION PHASE 3 OF 3

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FB NO. P-6382

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
TYPICAL CONSTRUCTION ZONE AT A T-INTERSECTION SHEET 2 OF 2
TCP SHEET: 76

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 329 OF 369	

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PLOTTED: 8/13/2026 5:13 PM

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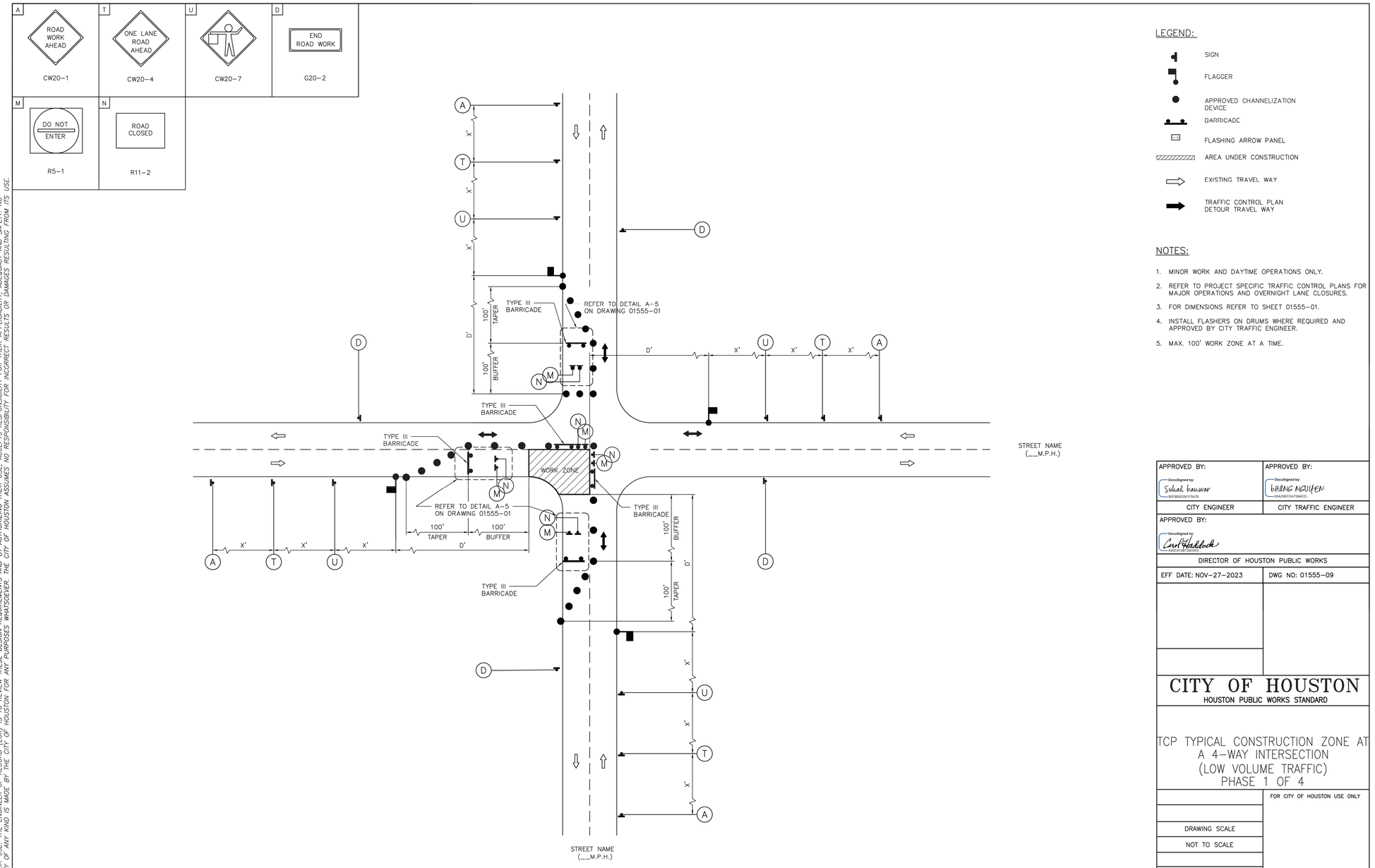
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NO.	DATE	REVISION	APP.



LEGEND:

- SIGN
- FLAGGER
- APPROVED CHANNELIZATION DEVICE
- DARRICADE
- FLASHING ARROW PANEL
- AREA UNDER CONSTRUCTION
- EXISTING TRAVEL WAY
- TRAFFIC CONTROL PLAN DETOUR TRAVEL WAY

NOTES:

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2. REFER TO PROJECT SPECIFIC TRAFFIC CONTROL PLANS FOR MAJOR OPERATIONS AND OVERNIGHT LANE CLOSURES.
3. FOR DIMENSIONS REFER TO SHEET 01555-01.
4. INSTALL FLASHERS ON DRUMS WHERE REQUIRED AND APPROVED BY CITY TRAFFIC ENGINEER.
5. MAX. 100' WORK ZONE AT A TIME.

APPROVED BY:	APPROVED BY:
DocuSigned by: Sulait Kanwar	DocuSigned by: KHANG NGUYEN
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY: DocuSigned by: Carl Haddock	
DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV-27-2023	DWG NO: 01555-09

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

TCP TYPICAL CONSTRUCTION ZONE AT A 4-WAY INTERSECTION (LOW VOLUME TRAFFIC) PHASE 1 OF 4

FOR CITY OF HOUSTON USE ONLY

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F 713 748 3748
TBPE Firm Reg. #4575

SURVEYED BY: Kuo&Associates
FB NO. P-6382

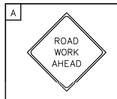
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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

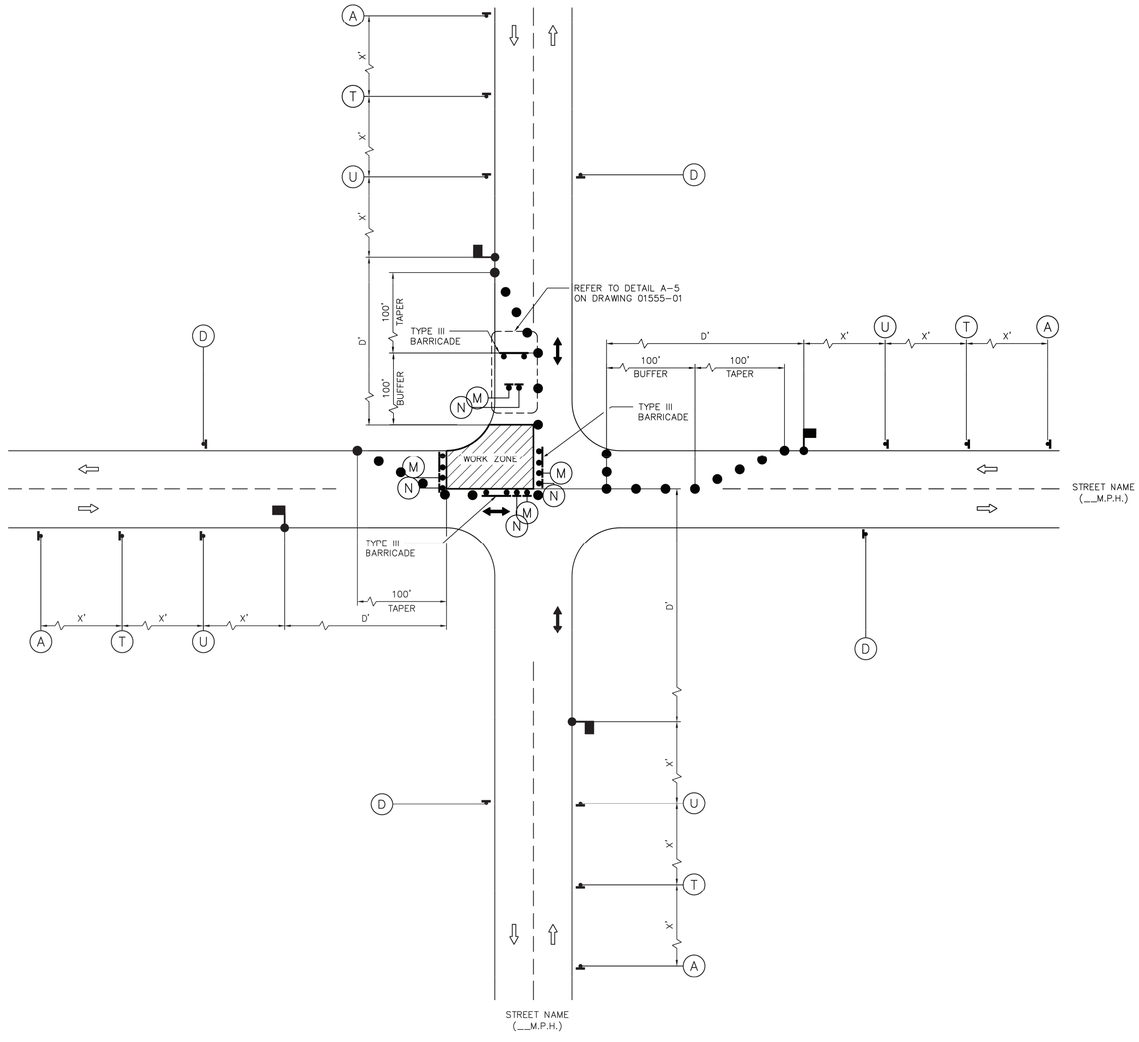
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
TYPICAL CONSTRUCTION ZONE AT A 4-WAY INTERSECTION (LOW VOLUME TRAFFIC)
TCP SHEET: 77 SHEET 1 OF 4

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 330 OF 369	

DocuSign Envelope ID: CB71C116-B716-4899-A5EE-0D2F2CC55AF6

A	T	U	D
 CW20-1	 CW20-4	 CW20-7	 G20-2

M	N
 R5-1	 R11-2



LEGEND:

- SIGN
- FLAGGER
- APPROVED CHANNELIZATION DEVICE
- BARRICADE
- FLASHING ARROW PANEL
- AREA UNDER CONSTRUCTION
- EXISTING TRAVEL WAY
- TRAFFIC CONTROL PLAN DETOUR TRAVEL WAY

NOTES:

1. MINOR WORK AND DAYTIME OPERATIONS ONLY.
2. REFER TO PROJECT SPECIFIC TRAFFIC CONTROL PLANS FOR MAJOR OPERATIONS AND OVERNIGHT LANE CLOSURES.
3. FOR DIMENSIONS REFER TO SHEET 01555-01.
4. INSTALL FLASHERS ON DRUMS WHERE REQUIRED AND APPROVED BY CITY TRAFFIC ENGINEER.
5. MAX. 100' WORK ZONE AT A TIME.

APPROVED BY:	APPROVED BY:
DocuSigned by: Suhail Kanwar 9EF8B0C641F5478...	DocuSigned by: HUNG NGUYEN 95A29EFDA758A4CD...
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY: DocuSigned by: Carol Haddock 9AE47B1B7B2B4E5...	
DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV-27-2023	DWG NO: 01555-11

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

TCP TYPICAL CONSTRUCTION ZONE AT A 4-WAY INTERSECTION (LOW VOLUME TRAFFIC) PHASE 3 OF 4

FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE
NOT TO SCALE

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FB NO. P-6382

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ENGINEER: RAHUL B MENON, P.E
P.E.Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
TYPICAL CONSTRUCTION ZONE AT A 4-WAY INTERSECTION (LOW VOLUME TRAFFIC)
TCP SHEET: 78 SHEET 2 OF 4

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ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 331 OF 369	

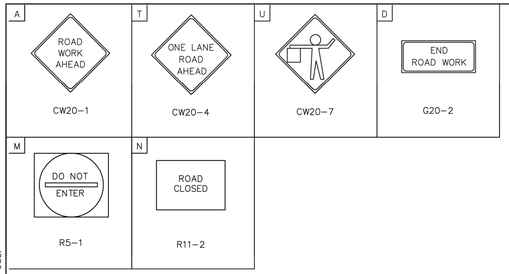
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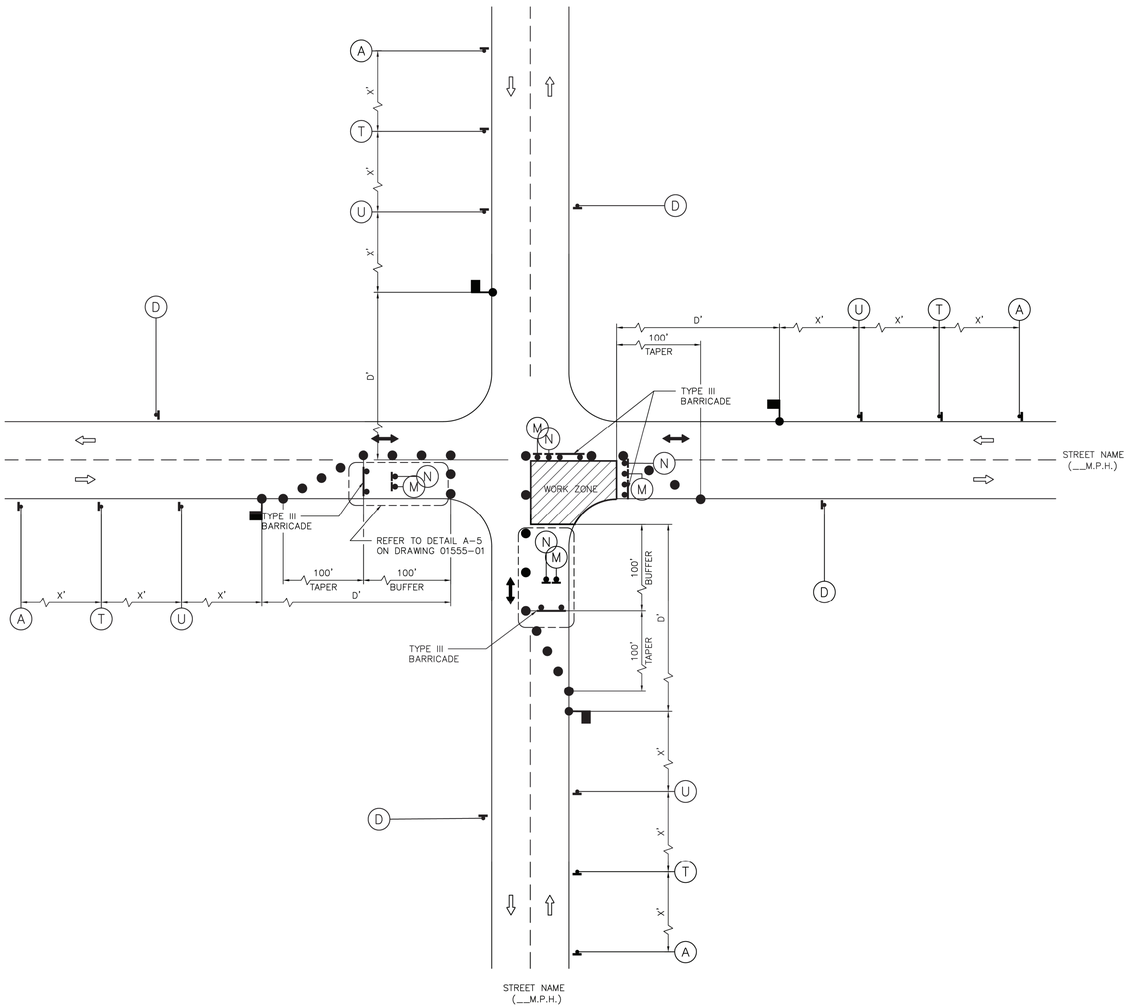
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LEGEND:

- SIGN
- FLAGGER
- APPROVED CHANNELIZATION DEVICE
- BARRICADE
- FLASHING ARROW PANEL
- AREA UNDER CONSTRUCTION
- EXISTING TRAVEL WAY
- TRAFFIC CONTROL PLAN DETOUR TRAVEL WAY

NOTES:

1. MINOR WORK AND DAYTIME OPERATIONS ONLY.
2. REFER TO PROJECT SPECIFIC TRAFFIC CONTROL PLANS FOR MAJOR OPERATIONS AND OVERNIGHT LANE CLOSURES.
3. FOR DIMENSIONS REFER TO SHEET 01555-01.
4. INSTALL FLASHERS ON DRUMS WHERE REQUIRED AND APPROVED BY CITY TRAFFIC ENGINEER.
5. MAX. 100' WORK ZONE AT A TIME.

APPROVED BY:	APPROVED BY:
DocuSigned by: Sukai Kauwar 3EFB5DC64FF5478...	DocuSigned by: KHANG NGUYEN 59A29EFDA758ED...
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY: DocuSigned by: Carol Haddock 4B5C1A9E1B5A4...	
DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV-27-2023	DWG NO: 01555-10

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

TCP TYPICAL CONSTRUCTION ZONE AT A 4-WAY INTERSECTION (LOW VOLUME TRAFFIC) PHASE 2 OF 4

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P-6382

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
TYPICAL CONSTRUCTION ZONE AT A 4-WAY INTERSECTION (LOW VOLUME TRAFFIC)
TCP SHEET: 79 SHEET 3 OF 4

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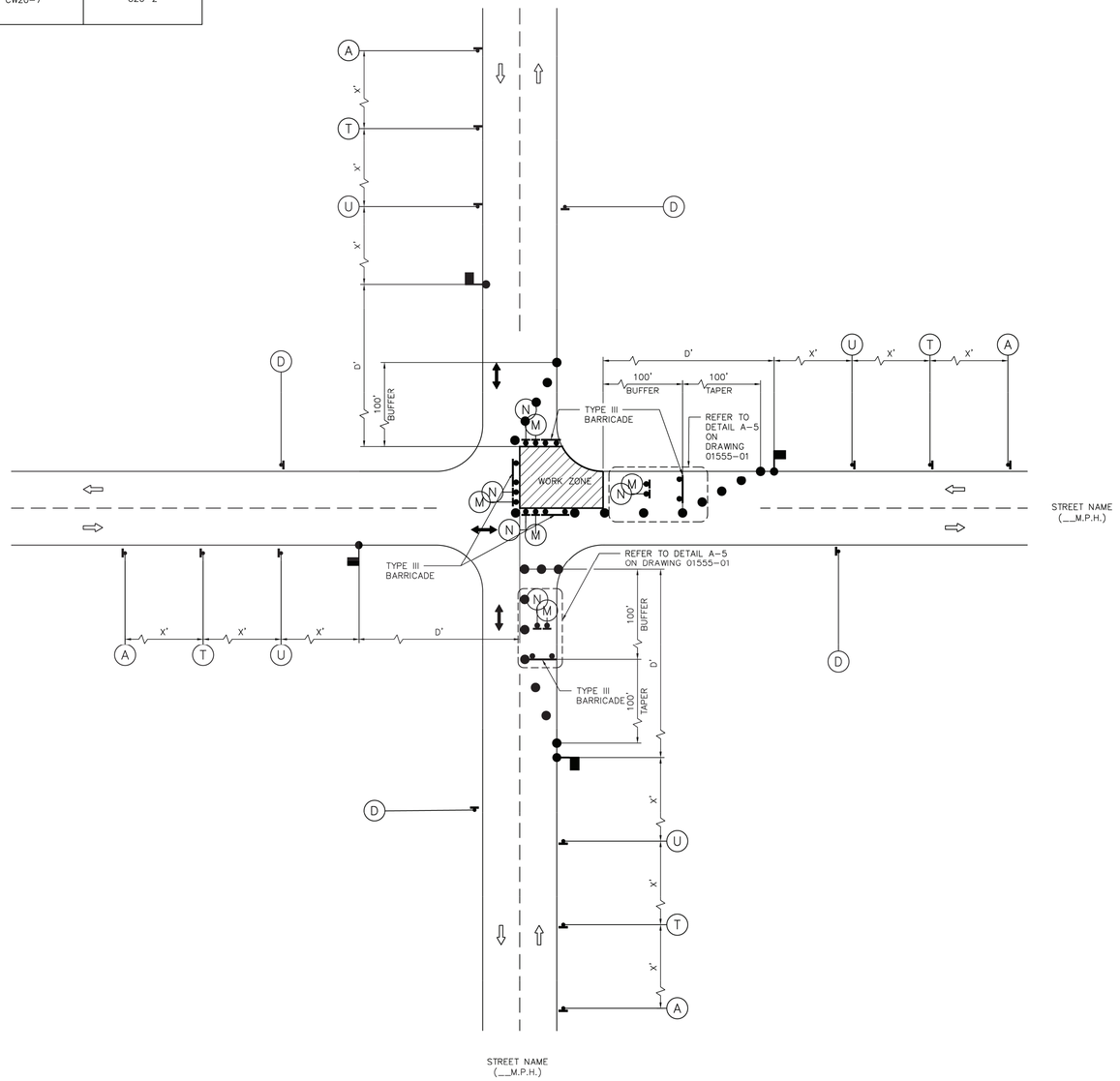
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A	T	U	D
ROAD WORK AHEAD	ONE LANE ROAD AHEAD		END ROAD WORK
CW20-1	CW20-4	CW20-7	G20-2

M	N
DO NOT ENTER	ROAD CLOSED
R5-1	R11-2



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5. MAX. 100' WORK ZONE AT A TIME.

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Docusigned by: Sulat Kanwar	Docusigned by: KHANG NGUYEN
CITY ENGINEER	CITY TRAFFIC ENGINEER

APPROVED BY:
Docusigned by: Carol Haddock
DIRECTOR OF HOUSTON PUBLIC WORKS

EFF DATE: NOV-27-2023	DWG NO: 01555-12

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

TCP TYPICAL CONSTRUCTION ZONE AT A 4-WAY INTERSECTION (LOW VOLUME TRAFFIC) PHASE 4 OF 4

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ENGINEER: RAHUL R MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P-6382

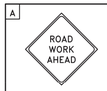
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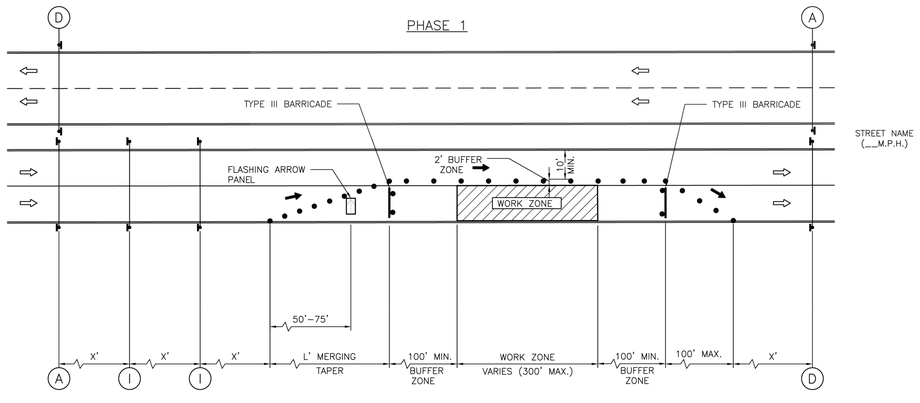
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TRAFFIC CONTROL PLANS
TYPICAL CONSTRUCTION ZONE AT A 4-WAY INTERSECTION (LOW VOLUME TRAFFIC)
TCP SHEET: 80 SHEET 4 OF 4

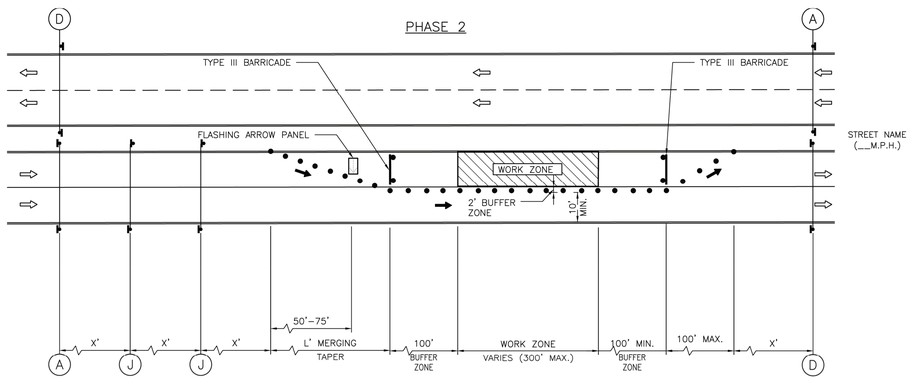
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CW20-1	G20-2	CW20-5(2) CW16-3	CW20-5(1) CW16-3





LEGEND:

- SIGN
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- BARRICADE
- FLASHING ARROW PANEL
- AREA UNDER CONSTRUCTION
- EXISTING TRAVEL WAY
- TRAFFIC CONTROL PLAN DETOUR TRAVEL WAY

NOTES:

1. RETURN TAPERS AND DOWNSTREAM BARRICADES ARE OPTIONAL ON A DIVIDED ROADWAY SECTION.
2. DOUBLE SIGNS SHALL BE USED ONLY ON ROADWAYS WITH MEDIANS.
3. FOR DIMENSIONS REFER TO SHEET 01555-01.
4. INSTALL FLASHERS ON DRUMS WHERE REQUIRED AND APPROVED BY CITY TRAFFIC ENGINEER.

APPROVED BY:	APPROVED BY:
DocuSigned by: Sukut kanwar	DocuSigned by: KHANG NGUYEN
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY: DocuSigned by: Carl Haddock	
DIRECTOR OF HOUSTON PUBLIC WORKS	
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

TCP ONE LANE CLOSURE
PHASE 1 & 2

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

SURVEYED BY: Kuo&Associates
FB NO. P-6382

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
ONE LANE CLOSURE

TCP SHEET: 81

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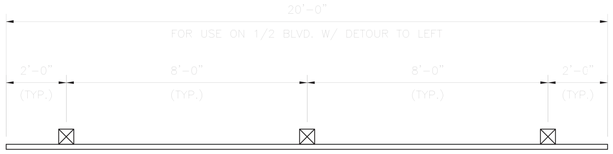
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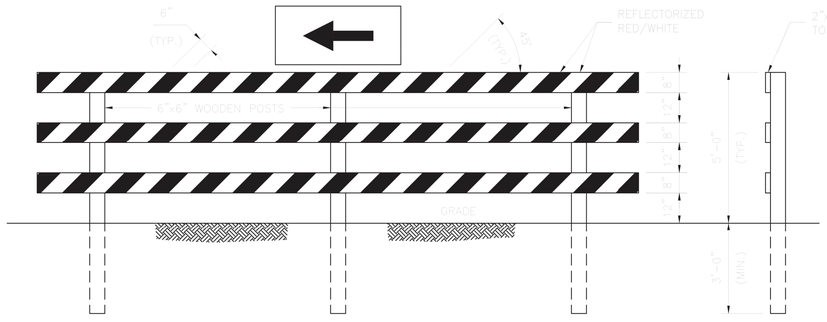
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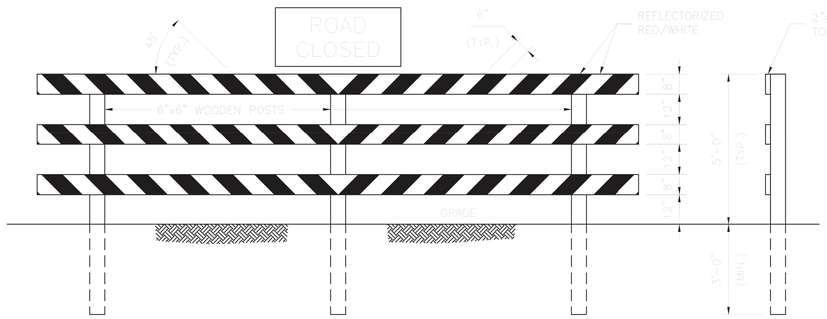


PLAN VIEW



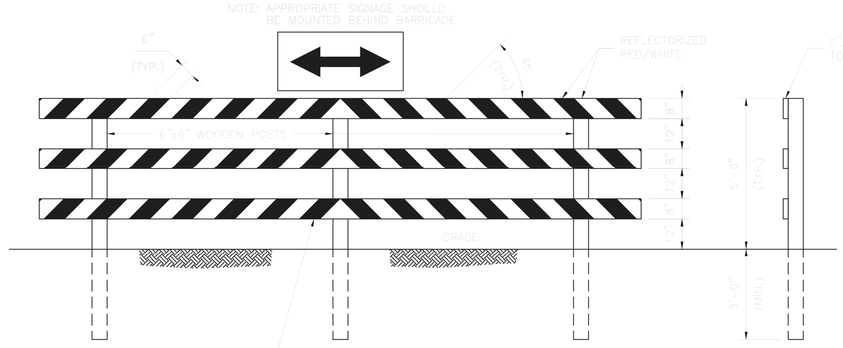
FRONT VIEW SIDE VIEW

DETOUR ROUTE



FRONT VIEW SIDE VIEW

ROAD CLOSED – NO OUTLET



FRONT VIEW SIDE VIEW

T–INTERSECTION

APPLICATION: PERMANENT AND SEMI-PERMANENT CLOSURE OF ROADWAY OR ROADWAY TERMINATION

NO.	REVISIONS	DATE	NAME

HARRIS COUNTY ENGINEERING DEPARTMENT

HARRIS COUNTY TEXAS

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ENGINEER: NAME
P.E. SERIAL No. NUMBER
DATE: / /

		TRAFFIC STANDARD
	TYPE III BARRICADE DETAILS	T3B
JDZ		8/18/17
BSH	1" = 2'-0"	SHEET 1

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P.E.Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
BARRICADE STANDARDS

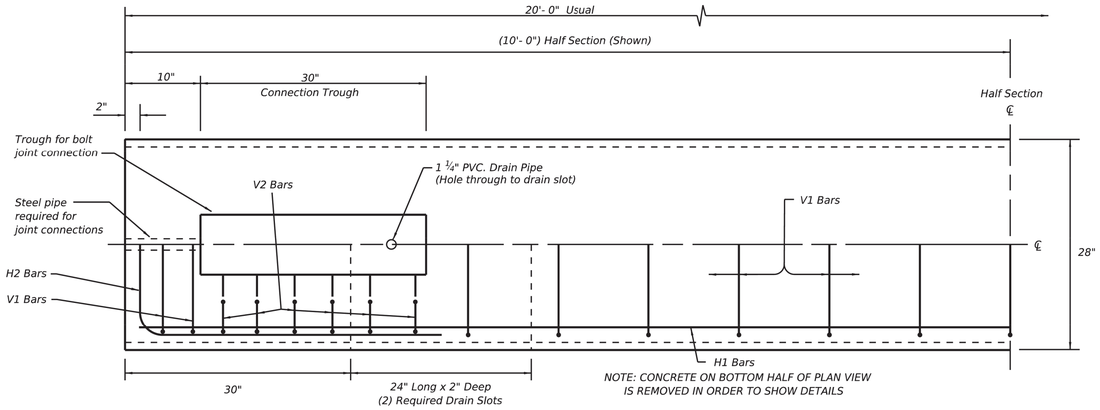
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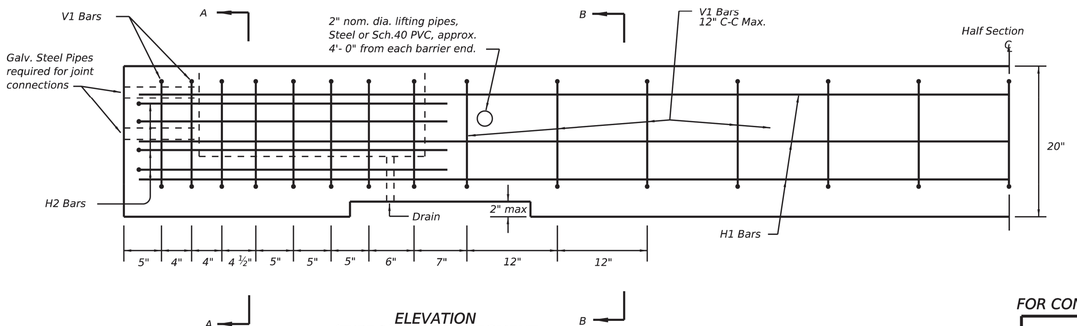
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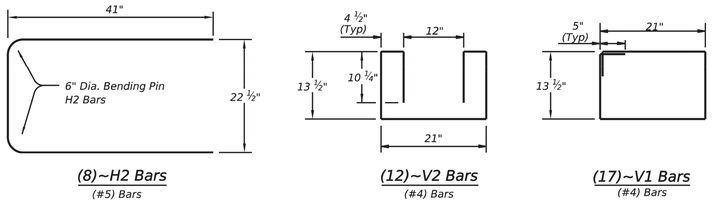
PLAN
(TYPE 1) BARRIER SEGMENT

(SYMMETRICAL ABOUT CENTER LINES)



ELEVATION
(TYPE 1) BARRIER SEGMENT

(SYMMETRICAL ABOUT CENTER LINES)



(8)~H2 Bars (#5) Bars

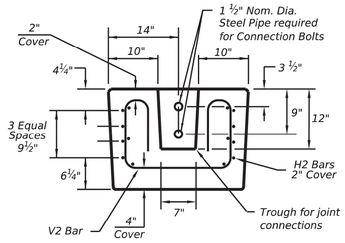
(12)~V2 Bars (#4) Bars

(17)~V1 Bars (#4) Bars

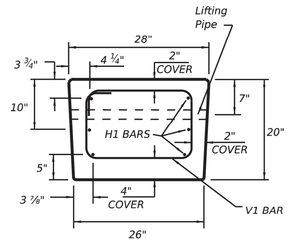
REINFORCING STEEL DETAILS

TYPE 1 - BARRIER SEGMENT

Note: Use 2" Dia. Bending Pin, unless otherwise shown



SECTION A-A



SECTION B-B

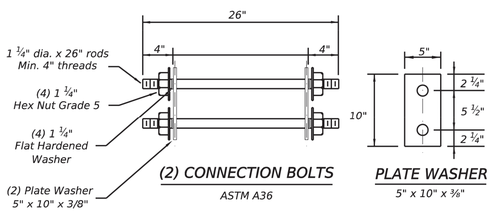
GENERAL NOTES

1. Low Profile Concrete Barrier (LPCB), is approved for use in temporary work zone locations, where the posted speed is 45 mph, or less.
2. Concrete shall be Class H for precast barrier with a minimum compressive strength of 3,600 psi.
3. Where used, rebar reinforcement shall be Grade 60 and conform to ASTM A615.
4. Precast LPCB barrier length shall be 20 ft.
5. All barrier edges shall have ¾" chamfer or a tooled radius.
6. Joint connection hardware shall be in accordance with Item 449, "Anchor Bolts." and is considered subsidiary.
7. Steel pipe required for joint connection bolts shall be galvanized in accordance with Item 445,"Galvanizing."
8. Welded wire reinforcement (WWR) may be used in lieu of conventional reinforcement for Type 1 barrier, and shall meet the requirements shown.

FOR CONTRACTORS INFORMATION ONLY

(TYPE 1)
APPROX. QUANTITIES 20 FT. SECTION

CONCRETE	CY	2.6
REINFORCING STEEL	LBS	330
TOTAL BARRIER WT.	LBS	11000



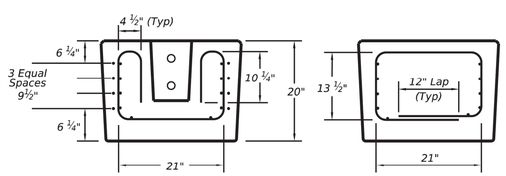
(2) CONNECTION BOLTS ASTM A36

PLATE WASHER 5" x 10" x ⅜"

Note: Rods, Hex nuts and Washers shall be Galvanized.

(WWR) GENERAL NOTES

1. Deformed Welded Wire Reinforcement shall conform to ASTM A497.
2. Welded wire cage may be cut or bent, if necessary, but must be approved by the Engineer.
3. Combinations of reinforcing steel and WWR are permitted, as directed by the Engineer. The dimensions from the end of the barrier section to the first wire shall not exceed 3".



SECTION A-A

SECTION B-B

REQUIRED (WWR) WIRE DESIGN

8 ~ (D31) Horizontal Wires (Equally spaced)
10 ~ (D20) Horizontal Wires (Equally spaced)
29 ~ (D20) Vertical Wires (Spaced as shown in Elevation View)

WELDED WIRE REINFORCEMENT (WWR)- OPTIONAL REINFORCING

DATE:
FILE:

SHEET 1 OF 2

Texas Department of Transportation — Design Division Standard

LOW PROFILE CONCRETE BARRIER
PRECAST BARRIER (TYPE 1)
LPCB-13

FILE: lpcb13.dgn	DN: TxDOT	CK: AM	DW: VP	CK:
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FB NO. P-6382

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TRAFFIC CONTROL PLANS
LOW PROFILE CONCRETE BARRIER–13 (TYPE I)

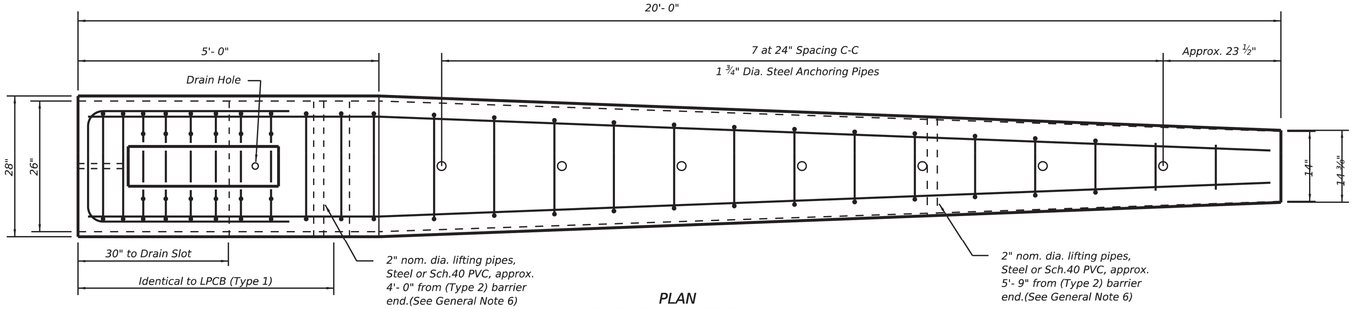
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SHEET NO. 336 OF 369	

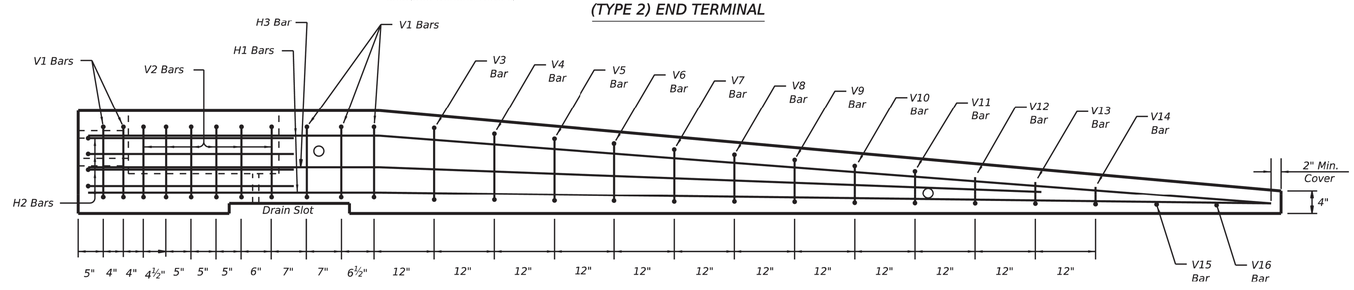
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DATE:
FILE:

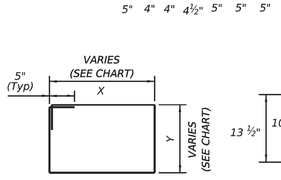


PLAN
(TYPE 2) END TERMINAL



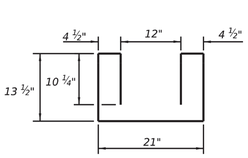
ELEVATION
(TYPE 2) END TERMINAL

Note:
Anchoring pipes not shown in Elevation View

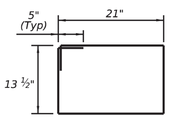


V3-V14 Bars

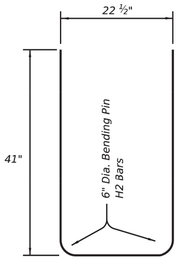
BAR(#4)	X (IN.)	Y (IN.)
V3 BAR	20 ¼	14 ½
V4 BAR	19 ½	13 ½
V5 BAR	18 ½	12 ¼
V6 BAR	17 ½	11 ¼
V7 BAR	17	10 ¾
V8 BAR	16 ¼	9
V9 BAR	15 ½	8
V10 BAR	14 ½	7
V11 BAR	13 ¾	6



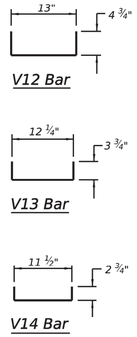
(6)~V2 Bars



(5)~V1 Bars

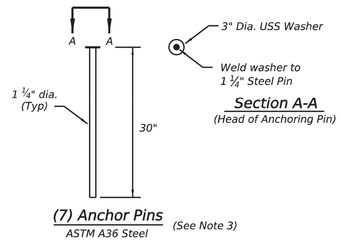


(4)~H2 Bars
(#5) Bars



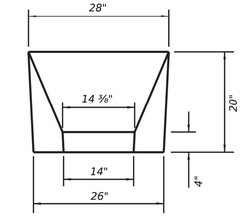
REINFORCING STEEL DETAILS
TYPE 2 - END TERMINAL

Note: All V Bars are (#4)



Section A-A
(Head of Anchoring Pin)

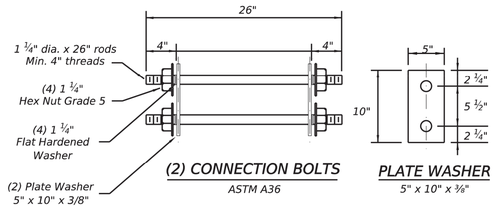
(7) Anchor Pins
ASTM A36 Steel (See Note 3)



APPROACH VIEW

TYPE 2 - NOTES

1. Welded wire reinforcment (WWR) is "not" an option for Type 2 Barrier.
2. Type 2 Barrier shall be used as an end treatment for the Type 1 barrier segments, when applicable.
3. The end treatment can be used without the anchor pins in locations that can accommodate approximately 4 ft. of lateral displacement of the end treatment.The use of non-pinned end treatment does not affect the performance or the deflection of the Low-Profile barrier system.
4. The anchor pins are all the same length and are to be driven flush with the top of the (Type 2) barrier surface.
5. The bends in the H3 and H1 bars are slight, no formal bend is necessary.
6. The Type 2 barrier segment must be lifted from the rear first, to prevent cracking of sloped section.
7. See LPCB sheet 1 for additional information.

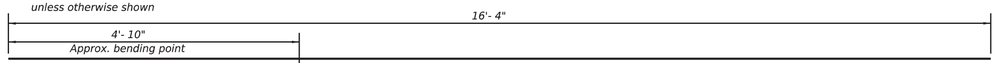


(2) CONNECTION BOLTS
ASTM A36

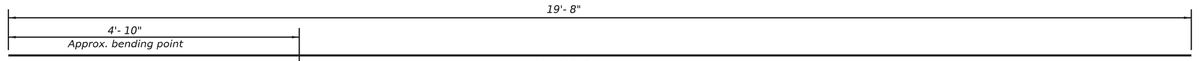
PLATE WASHER
5" x 10" x ⅜"

Note: Rods, Hex nuts and Washers shall be Galvanized.

Note: Use 2" Dia. Bending Pin, unless otherwise shown



(2)~H3 Bars
(#5) Bar



(4)~H1 Bars
(#5) Bar

Note: Bends on H1 and H3 bars are slight and do not require formal bends.

FOR CONTRACTORS INFORMATION ONLY

(TYPE 2)
APPROX. QUANTITIES 20 FT. SECTION

CONCRETE	CY	1.65
REINFORCING STEEL	LBS	240
TOTAL BARRIER WT.	LBS	7000

Texas Department of Transportation
Design Division Standard

LOW PROFILE CONCRETE BARRIER
PRECAST BARRIER (TYPE 2)
LPCB-13

FILE: lpcb13.dgn	DN: TxDOT	CK: AM	DW: VP	CK:
© TxDOT December 2010	CONT	SECT	JOB	HIGHWAY
REVISIONS				
	DIST	COUNTY		SHEET NO.

NO.	DATE	REVISION	APP.

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TBPE Firm Reg. #4575

SURVEYED BY: Kuo&Associates
FB NO. P-6382

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

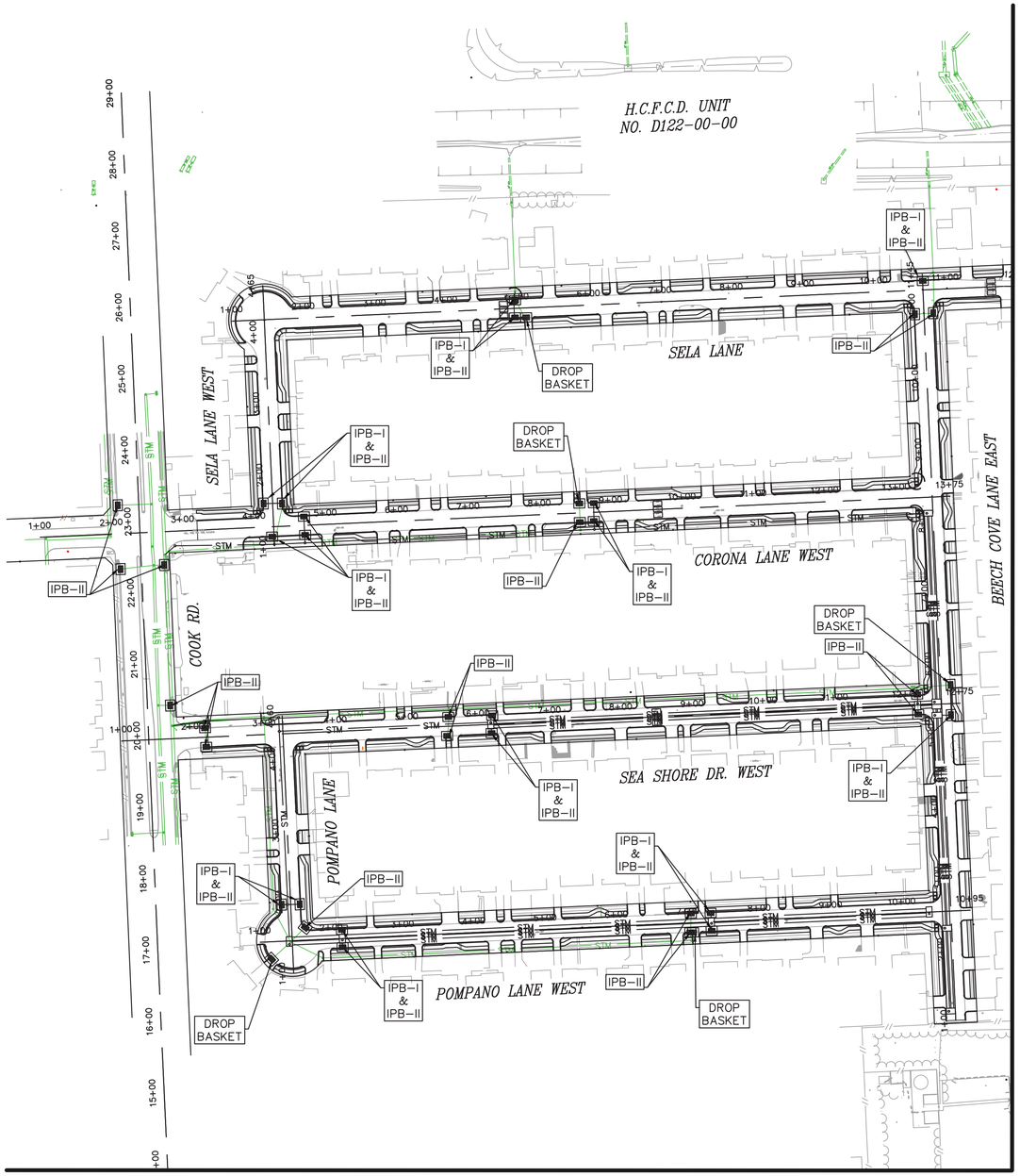
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS
TRAFFIC CONTROL PLANS
LOW PROFILE CONCRETE BARRIER-13 (TYPE II)

TCP SHEET: 84

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 337 OF 369	

PLOTTED: 8/13/2026 5:13 PM
FILE PATH: P:\ACTIVE\18PW97 - 2024 Update\Ph II\Working\CAD\TCP\Alief TCP Details.dwg



N

100 0 50 100 200

SCALE: 1" = 100'-0" FEET FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.

NOTE:

1. ADDITIONAL SWPPP MEASURES TO BE CARRIED OUT BY CONTRACTOR IN-FIELD WITHOUT AFFECTING THE EXISTING INLET STRUCTURES.

LEGEND:

IPB I	INLET PROTECTION BARRIER I
IPB II	INLET PROTECTION BARRIER II

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P.E. Reg No: 130533
DATE: AUGUST 2026

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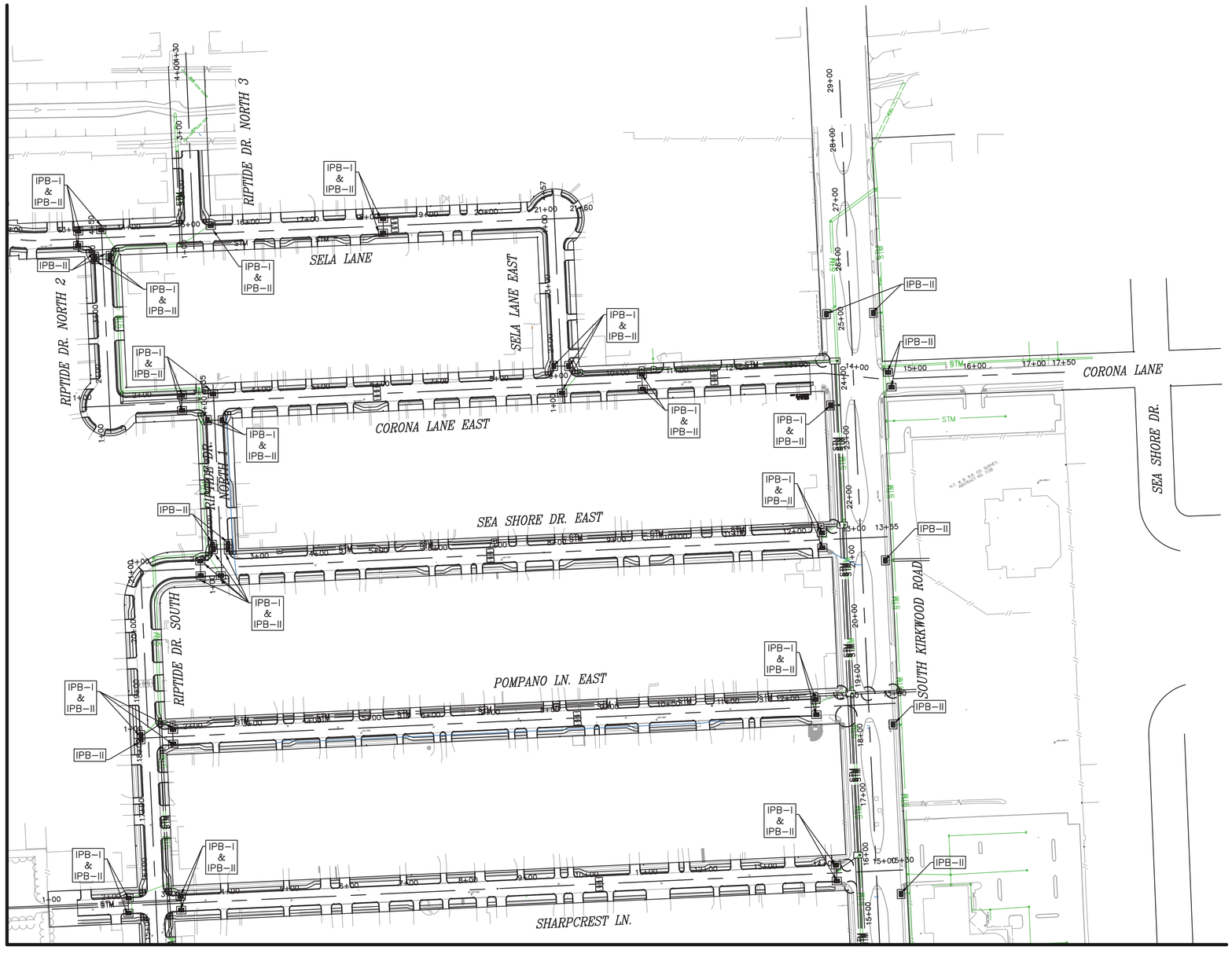
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

STORMWATER POLLUTION PREVENTION PLAN LAYOUT
(SHEET 1 OF 4)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1" = 100'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 338 OF 369	

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PLOTTED: 8/10/2026 11:36 AM



MATCH LINE
SHEET 1 OF 4

MATCH LINE
SHEET 4 OF 4

N

100 0 50 100 200

SCALE: 1" = 100'–0" FEET FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.

NOTE:

1. ADDITIONAL SWPPP MEASURES TO BE CARRIED OUT BY CONTRACTOR IN–FIELD WITHOUT AFFECTING THE EXISTING INLET STRUCTURES.

LEGEND:

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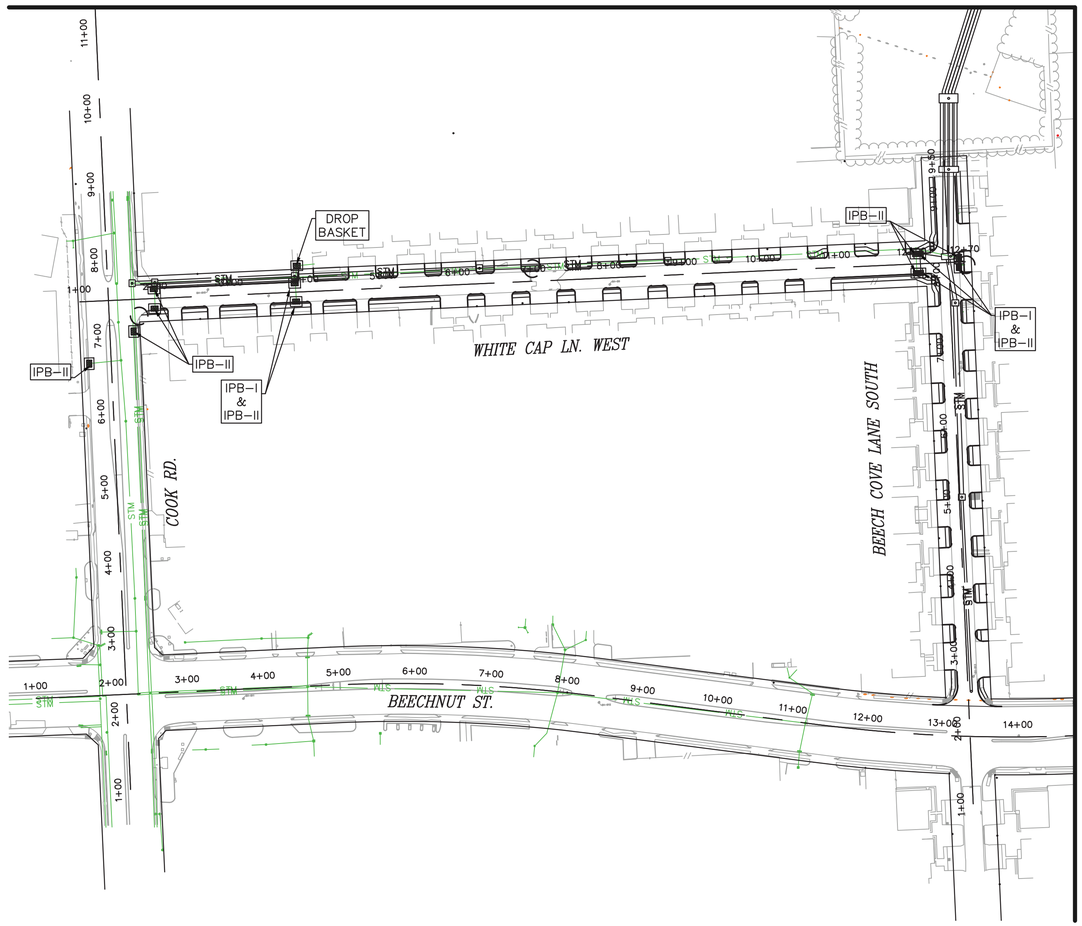
STORMWATER POLLUTION PREVENTION PLAN LAYOUT (SHEET 2 OF 4)

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N–210015–0001–3	
DRAWING SCALE	
1" = 100'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 339 OF 369	

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MATCH LINE
SHEET 1 OF 4



MATCH LINE
SHEET 4 OF 4

N

100 0 50 100 200

SCALE: 1" = 100'-0" FEET FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.

NOTE:

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LEGEND:

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IPB II — INLET PROTECTION BARRIER II

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P.E. Reg No: 130533
DATE: AUGUST 2026

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STORMWATER POLLUTION PREVENTION PLAN LAYOUT (SHEET 3 OF 4)

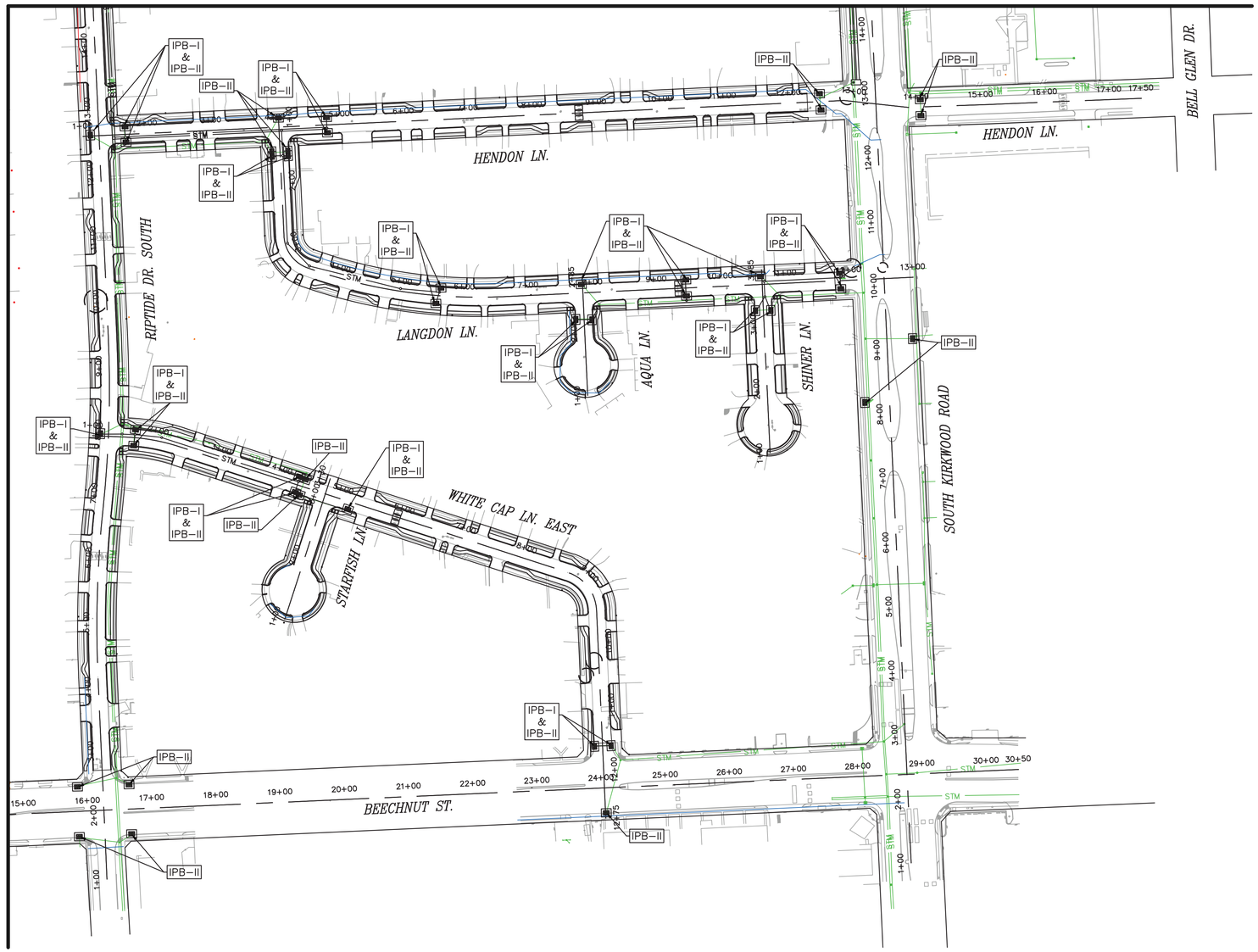
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CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 340 OF 369	

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MATCH LINE
SHEET 2 OF 4

MATCH LINE
SHEET 3 OF 4



N

100 0 50 100 200

SCALE: 1" = 100'–0" FEET FOR 22"X34" SHEET

NO.	DATE	REVISION	APP.

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DATE: AUGUST 2026

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STORMWATER POLLUTION PREVENTION PLAN LAYOUT (SHEET 4 OF 4)

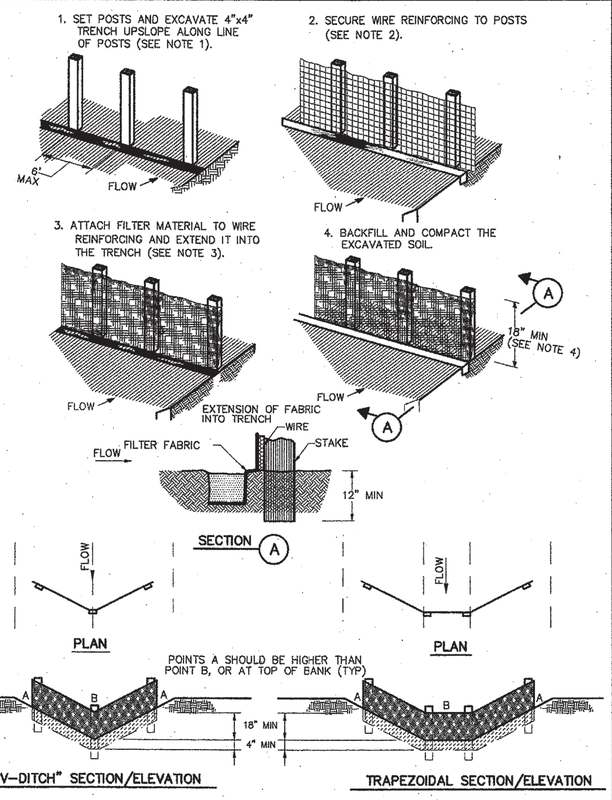
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1" = 100'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 341 OF 369	

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NO.	DATE	REVISION	APP.

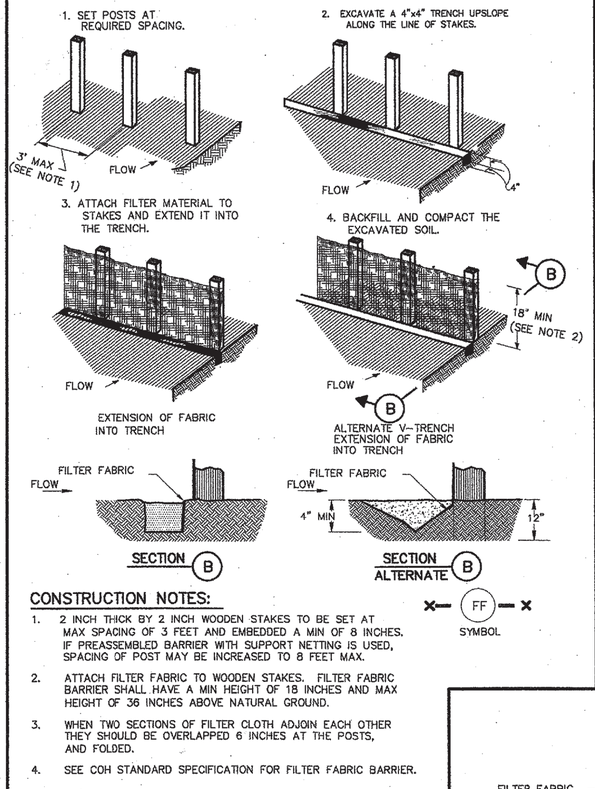


CONSTRUCTION NOTES:

1. SET 2 INCH BY 2 INCH WOODEN STAKES SPACED A MAX OF 6 FEET APART AND EMBEDDED A MIN OF 12 INCHES.
2. WOVEN WIRE REINFORCING TO BE FASTENED SECURELY TO BARRIER POSTS WITH STAPLES.
3. FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE REINFORCING, WITH TIES SPACED EVERY 24 INCHES AT TOP AND MIDSECTION.
4. MINIMUM HEIGHT OF FILTER SHOULD BE 18 INCHES AND A MAXIMUM OF 36 INCHES ABOVE NATURAL GROUND.
5. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED 6 INCHES AT THE POSTS, AND FOLDED.
6. SEE COH STANDARD SPECIFICATION FOR FILTER FABRIC BARRIER.

RFB
SYMBOL

REINFORCED FILTER FABRIC BARRIER

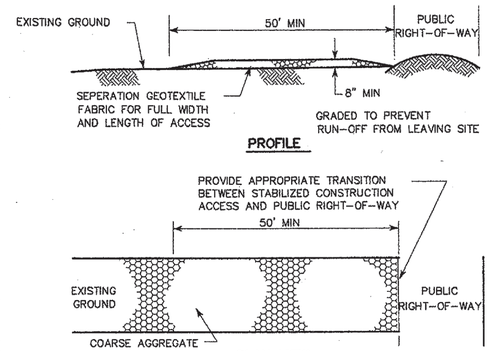


CONSTRUCTION NOTES:

1. 2 INCH THICK BY 2 INCH WOODEN STAKES TO BE SET AT MAX SPACING OF 3 FEET AND EMBEDDED A MIN OF 8 INCHES. IF PREASSEMBLED BARRIER WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE INCREASED TO 8 FEET MAX.
2. ATTACH FILTER FABRIC TO WOODEN STAKES. FILTER FABRIC BARRIER SHALL HAVE A MIN HEIGHT OF 18 INCHES AND MAX HEIGHT OF 36 INCHES ABOVE NATURAL GROUND.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHOULD BE OVERLAPPED 6 INCHES AT THE POSTS, AND FOLDED.
4. SEE COH STANDARD SPECIFICATION FOR FILTER FABRIC BARRIER.

FF
SYMBOL

FILTER FABRIC BARRIER

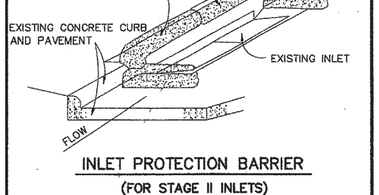


CONSTRUCTION NOTES:

1. LENGTH SHALL BE AS SHOWN ON THE CONSTRUCTION DRAWINGS, BUT NOT LESS THAN 50 FEET.
2. THICKNESS SHALL BE NOT LESS THAN 8 INCHES.
3. WIDTH SHALL BE NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
4. STABILIZATION FOR OTHER AREAS SHALL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION ACCESS, UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION DRAWINGS.
5. STABILIZED AREA MAY BE WIDENED OR LENGTHENED TO ACCOMODATE A WASHING AREA. AN OUTLET SEDIMENT TRAP MUST BE PROVIDED FOR THE WASHING AREA.
6. COH STANDARD SPECIFICATION FOR STABILIZED CONSTRUCTION ACCESS.
7. STABILIZED CONSTRUCTION ACCESS SHALL BE MAINTAINED FREE OF SEDIMENT FOR THE DURATION OF THE PROJECT.

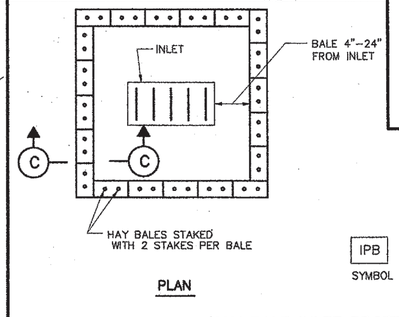
SC
SYMBOL

STABILIZED CONSTRUCTION ACCESS

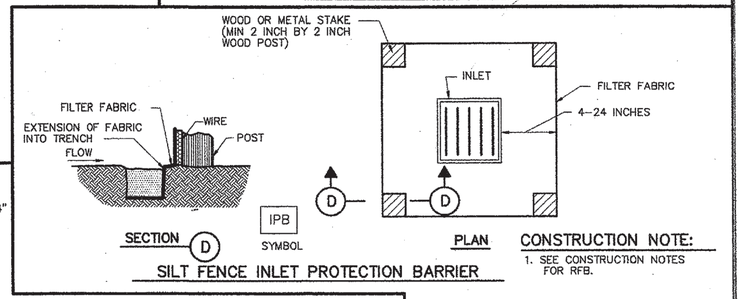


INLET PROTECTION BARRIER

(FOR STAGE II INLETS)
BAGGED GRAVEL BARRIER



HAY BALE INLET PROTECTION BARRIER



SILT FENCE INLET PROTECTION BARRIER

CONSTRUCTION NOTE:

1. SEE CONSTRUCTION NOTES FOR RFB.

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

STORM WATER POLLUTION PREVENTION PLAN DETAILS

(NOT TO SCALE)

APPROVED	APPROVED
CITY ENGINEER	DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: JULY-01-2010	DWG NO: 01571-01

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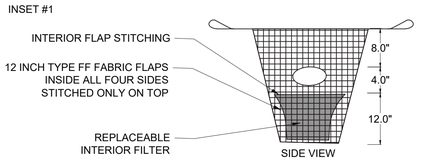
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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

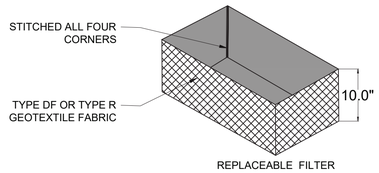
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

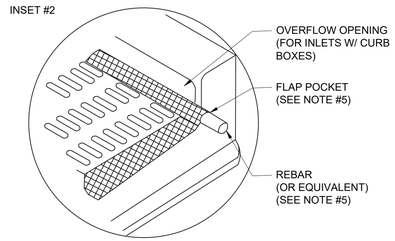
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

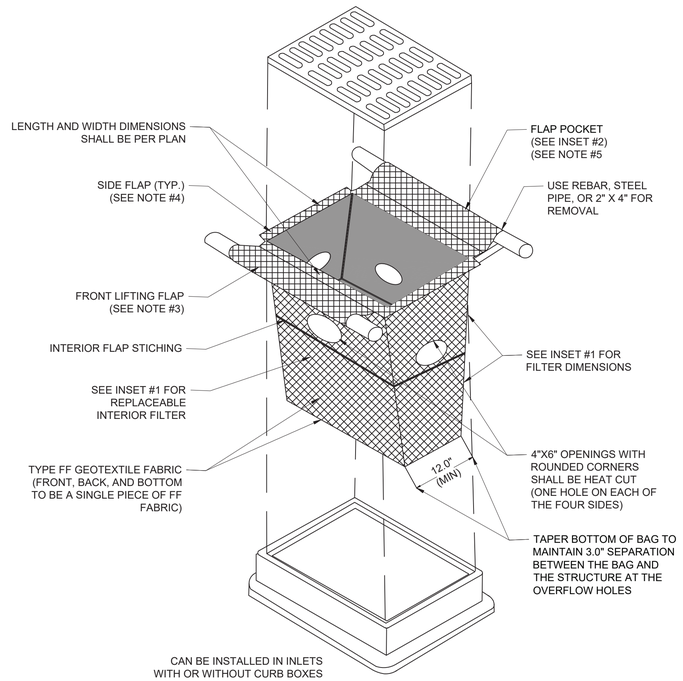
STORM WATER POLLUTION PREVENTION PLAN DETAILS (1 OF 3)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 342 OF 369	









NOTES

1. TAPER BOTTOM OF BAG TO MAINTAIN THREE INCHES OF CLEARENCE BETWEEN THE BAG AND THE STRUCTURE. MEASURED FROM THE BOTTOM OF THE OVERFLOW OPENING TO THE STRUCTURE WALL.
2. GEOTEXTILE FABRIC TYPE FF FOR FLAPS, TOP AND BOTTOM OF OUTSIDE OF FILTER BAG, FRONT, BACK AND BOTTOM OF FILTER BEING ONE PIECE.
3. FRONT LIFTING FLAP IS TO BE USED WHEN REMOVING AND MAINTAINING FILTER BAG.
4. SIDE FLAPS SHALL BE A MAXIMUM OF TWO INCHES LONG. FOLD THE FABRIC OVER AND REINFORCE WITH MULTIPLE STITCHES.
5. FLAP POCKETS SHALL BE LARGER ENOUGH TO ACCEPT WOOD 2"X4". THE REBAR, STEEL PIPE, OR WOOD SHALL BE INSTALLED IN THE REAR FLAP AND SHALL NOT BLOCK THE TOP HALF OF THE CURB FACE OPENING.

MAINTENANCE NOTES:

1. WHEN REMOVING OR MANTAINING INLET PROTECTION, CARE SHALL BE TAKEN SO THAT THE SEDIMENT TRAPPED IN THE FABRIC DOES NOT FALL INTO THE STRUCTURE. MATERIAL THAT HAS FALLEN INTO THE INLET SHALL BE IMMEDIATELY REMOVED.

DROP BASKET

NO.	DATE	REVISION	APP.

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ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

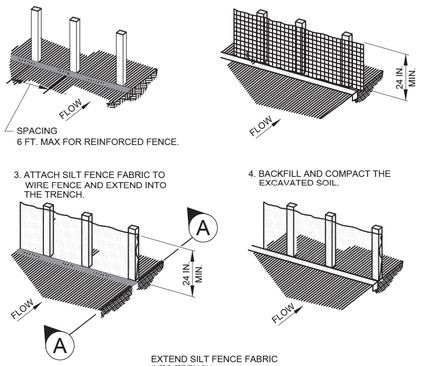
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

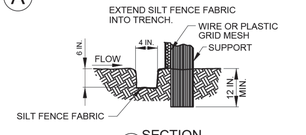
ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

STORM WATER POLLUTION PREVENTION PLAN DETAILS (2 OF 3)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 343 OF 369	

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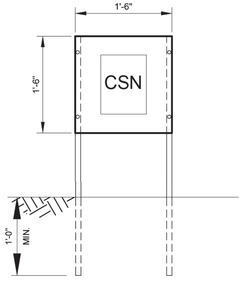


A SECTION

NOTE:
1. SEE SPECIFICATION SECTION NO. 02361-SILT FENCES.

SYMBOL — REINFORCED SILT FENCE

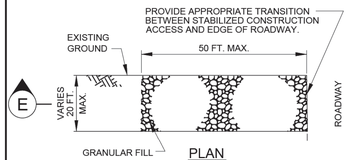
REINFORCED SILT FENCE



NOTE:
CONSTRUCT IN ACCORDANCE WITH HCFCD SPECIFICATION SECTION 01580 - PROJECT SIGNS.

CSN HOLDER

SWPPP / BMP SIGN AND CONSTRUCTION SITE NOTICE HOLDER DETAILS



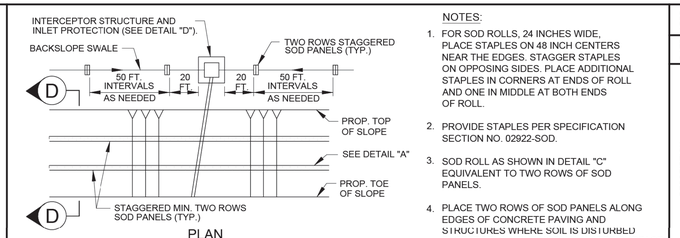
PLAN

E SECTION

CONSTRUCTION NOTES:
1. SEE SPECIFICATION SECTION NO. 02365-STABILIZED CONSTRUCTION ACCESS.

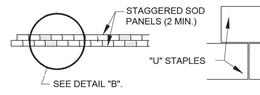
STABILIZED CONSTRUCTION ACCESS

SCA — SYMBOL

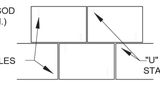


PLAN

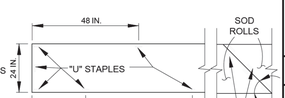
NOTES:
1. FOR SOD ROLLS, 24 INCHES WIDE, PLACE STAPLES ON 48 INCH CENTERS NEAR THE EDGES. STAGGER STAPLES ON OPPOSING SIDES. PLACE ADDITIONAL STAPLES IN CORNERS AT ENDS OF ROLL AND ONE IN MIDDLE AT BOTH ENDS OF ROLL.
2. PROVIDE STAPLES PER SPECIFICATION SECTION NO. 02922-SOD.
3. SOD ROLL AS SHOWN IN DETAIL "C" EQUIVALENT TO TWO ROWS OF SOD PANELS.
4. PLACE TWO ROWS OF SOD PANELS ALONG EDGES OF CONCRETE PAVING AND STRUCTURES WHERE SOIL IS DISTURBED EXCEPT BELOW THE NORMAL WATER SURFACE.



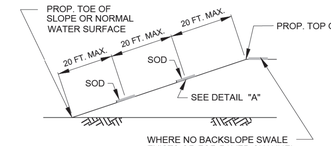
DETAIL "A"



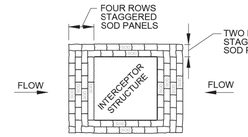
DETAIL "B"



DETAIL "C"



D SECTION



DETAIL "D"
INTERCEPTOR STRUCTURE & INLET PROTECTION

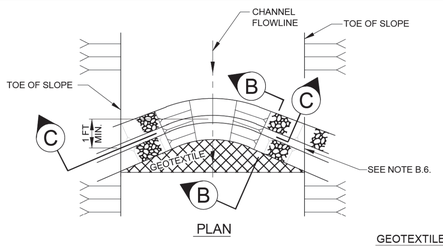
SOD — SYMBOL
IP — SYMBOL

SODDING

FILTER DAM NOTES:

A. TYPES OF FILTER DAMS
   1. TYPE 1 - NOT USED BY HCFCD
   2. TYPE 2 (REINFORCED).
      a. HEIGHT - 18-36 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
      b. TOP WIDTH - 2 FEET (MINIMUM).
      c. SLOPES - 2:1 (MAXIMUM).
   3. TYPE 3 - NOT USED BY HCFCD
   4. TYPE 4 (GABION)
      a. HEIGHT - 30 INCHES (MINIMUM). MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
      b. TOP WIDTH - 2 FEET (MINIMUM).
   5. TYPE 5. AS SHOWN ON THE PLANS.

B. CONSTRUCT FILTER DAMS ACCORDING TO THE FOLLOWING CRITERIA UNLESS SHOWN OTHERWISE ON THE PLANS.
   1. TYPE 2 AND 3 FILTER DAMS: SECURE WITH 20 GAUGE GALVANIZED WOVEN WIRE MESH WITH 1 INCH DIAMETER HEXAGONAL OPENINGS.
   2. GRANULAR FILL:
      a. PLACE ON MESH TO HEIGHT AND SLOPES SHOWN ON PLANS OR AS SPECIFIED BY THE ENGINEER.
      b. 3-5 INCHES FOR ROCK FILTER DAM TYPES 2, AND 4. REFER TO GRANULAR FILL IN SPECIFICATION SECTION NO. 02378-RIPRAP AND GRANULAR FILL.
   3. WIRE MESH: FOLD AT UPSTREAM SIDE OVER GRANULAR FILL AND TIGHTLY SECURE TO ITSELF ON THE DOWNSTREAM SIDE USING WIRE TIES OR HOG RINGS.
   4. IN STREAMS: SECURE OR STAKE MESH TO STREAM BED PRIOR TO AGGREGATE PLACEMENT.
   5. SEE SPECIFICATION SECTION NO. 02364-FILTER DAMS.
   6. EMBED ONE FOOT MINIMUM INTO SLOPE AND AT SLOPE RAISE ONE FOOT HIGHER THAN CENTER OF DEPRESSED AREA.

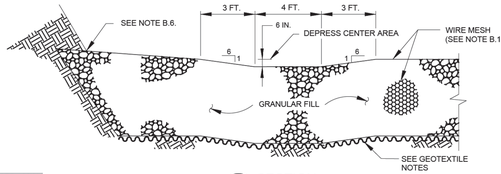


PLAN

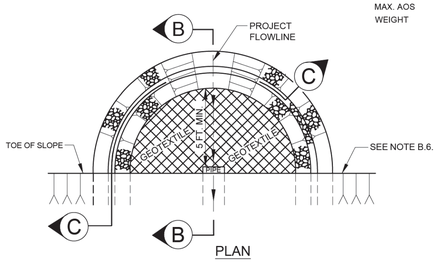
IN-CHANNEL FILTER DAM

GEOTEXTILE NOTES:

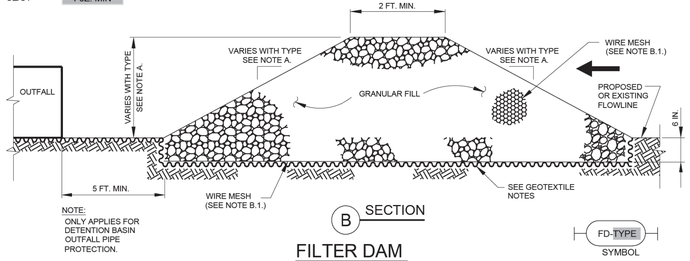
MIN. AOS	SIEVE NO.	120 MIN
MAX. AOS	SIEVE NO.	50 MAX
WEIGHT	OZ/SY	4 OZ. MIN



C SECTION



PLAN



NOTE:
ONLY APPLIES FOR DETENTION BASIN OUTFALL PIPE PROTECTION.

B SECTION

FILTER DAM AT DETENTION BASIN OUTFALL PIPE

FILTER DAM

FD-TYPE — SYMBOL

THIS DETAIL SHEET HAS BEEN PREPARED FOR USE ON HCFCD PROJECTS OR PROJECTS TO BE MAINTAINED BY THE HCFCD WHEN COMPLETED BY OTHERS. AN ENGINEER WHO INCORPORATES THE DETAILS ON THIS SHEET BECOMES RESPONSIBLE FOR ITS USE IN THE END PRODUCT IN ACCORDANCE WITH RULE 137.33 (b) AND (c) OF THE TEXAS BOARD OF PROFESSIONAL ENGINEERS.

P.E. SEAL AND SIGNATURE

ENGINEER - CONFIRM, CHANGE, OR FILL IN.

NO.	DATE	APPR	DESCRIPTION	REV

REVISION

PROJECT ID#

PROJECT TITLE

STORMWATER POLLUTION PREVENTION DETAILS

PREPARED:

CHECKED:

APPROVED:

COMPANY INFORMATION AND LOGO GOES HERE

HARRIS COUNTY FLOOD CONTROL DISTRICT
9900 Northwest Freeway
Houston, Texas 77092

DATE: 10-23-2018
SCALE: NTS

SHEET NUMBER
OF

ISANI
civil \ design \ engineers
10448 Westoffice Drive
Houston, Texas 77042
P 713 747 2399
F 713 748 3748
TBPE Firm Reg. #4575

SURVEYED BY: Kuo&Associates
FB NO. P-6382

INTERIM REVIEW ONLY
DOCUMENT INCOMPLETE; NOT INTENDED FOR PERMIT, BIDDING OR CONSTRUCTION
ENGINEER: RAHUL B MENON, P.E
P.E. Reg No: 130533
DATE: AUGUST 2026

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

ALIEF FOREST SOUTH AREA PAVING AND DRAINAGE IMPROVEMENTS

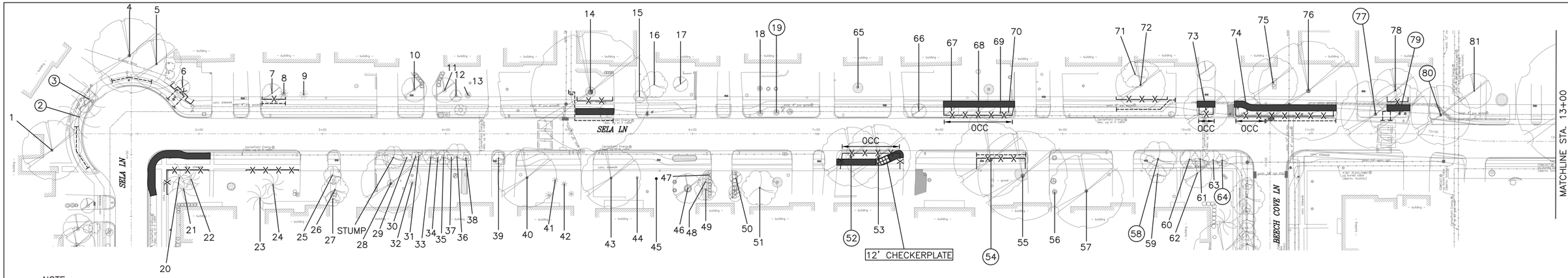
STORM WATER POLLUTION PREVENTION PLAN DETAILS (3 OF 3)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 344 OF 369	

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NOTE:

1. THIS TREE PROTECTION PLAN WAS DEVELOPED WITH INFORMATION PROVIDED BY DESIGN ENGINEER IN DRAWINGS DATED JULY 2026. THE PLAN CONSIDERS ALL FITTINGS, VERTICAL OFFSETS AND AREAS OF NECESSARY EXCAVATION. CHANGES MADE TO DESIGN MAY COMPROMISE THE TREE PROTECTION PLAN. REFER SPECIFICATIONS 01562 AND 02915.
2. CN KOEHL URBAN FORESTRY, INC. HAS NOT BEEN CONTRACTED TO COMPLETE ANY TREE RISK ASSESSMENTS ON THIS PROJECT–THIS TPP INCLUDES PROTECTION MEASURES FOR SPECIES OF TREES PROTECTED BY APPLICABLE ORDINANCE ONLY. CN KOEHL URBAN FORESTRY, INC. DOES NOT GUARANTEE CONDITION OR STRUCTURAL INTEGRITY OF ANY TREE LOCATED ON OR ADJACENT TO THIS PROJECT.
3. IN AREAS WHERE INDIVIDUAL TREES HAVE NOT BEEN TIED IN BY SURVEY, APPROXIMATE LOCATION IS INDICATED ON TPP WITH A DOT AND TREE NUMBER. ACCURACY OF REPRESENTED LOCATION IS NOT GUARANTEED BY CN KOEHL URBAN FORESTRY, INC.
4. THE CONTRACTOR'S ARBORIST WILL MARK LOCATIONS OF TREES TO BE PLANTED AND OBTAIN APPROVAL BY CITY ENGINEER AND CITY FORESTER BEFORE PURCHASING OR EXCAVATING PLANTING HOLE OF EACH TREE.

TREE PRESERVATION PLAN LEGEND

- 1 — TREE NUMBER/LOCATION
- (1) — TREE TO BE REMOVED
- –X–X– — TREE PROTECTION FENCE
- ------ — ROOT PRUNING TRENCH
- ▬ — SIDEWALK ON GRADE
- ▨ — CHECKERPLATE SECTION
- OCC — ZERO CUTBACK CURB

Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees on Sela Lane					
1	12230 Sela	23" Pecan	Protected	Corridor tree	Root prune for water line
2	12230 Sela	25' Palm	Not protected	Remove for waterline	Remove tree, No replacement/mitigation required
3	12230 Sela	25' Palm	Not protected	Remove for waterline	Remove tree, No replacement/mitigation required
4	12230 Sela	36" Live Oak	Protected	Corridor tree	Root prune for waterline, Clearance prune
5	12230 Sela	19" Sugarberry	Protected	Corridor tree, Dead	
6	12222 Sela	11" Pecan	Protected	Corridor tree	Root prune for fire hydrant, Clearance prune
7	12218 Sela	11" Trident Maple	Not protected	Private tree	Fence, Root prune for waterline, Clearance prune
8	12218 Sela	4' Sago	Not protected	Private tree	
9	12218 Sela	4' Sago	Not protected	Private tree	
10	12210 Sela	10" Bradford Pear	Not protected	Fire blight, Private tree, Not impacted	
11	12210 Sela	10" Bradford Pear	Not protected	Fire blight, Private tree, Not impacted	
12	12210 Sela	6" Crepe Myrtle	Not protected	Private tree, Not impacted	
13	12210 Sela	6" Crepe Myrtle	Not protected	Private tree, Not impacted	
14	12202 Sela	52" Arizona Ash	Protected	Corridor tree, Trunk decay, 40% dieback	Demo-form-pour walk without damage to roots 1" or larger, Root prune for tap and lead & street, Bore waterline, Clearance prune
15	12130 Sela	7" Crepe Myrtle	Not protected	Private tree	Clearance prune
16	12130 Sela	12" Crepe Myrtle	Not protected	Private tree, Not impacted	
17	12130 Sela	11" Bradford Pear	Not protected	Private tree	
18	12126 Sela	5" Crepe Myrtle	Not protected	Topped, Not impacted	
19	12126 Sela	4" Crepe Myrtle	Not protected	Topped, Remove tree for fire hydrant	Remove tree, No replacement/mitigation required
20	12223 Sela	20" Pine	Protected	Corridor tree	Fence, Demo-form-pour walk without damage to tree roots 1" or larger
21	12223 Sela	18" Pine	Protected	Corridor tree	Fence, Demo-form-pour walk without damage to tree roots 1" or larger
22	12223 Sela	12" Pine	Protected	Corridor tree	Fence, Demo-form-pour walk without damage to tree roots 1" or larger
23	12219 Sela	23" Pine	Protected	Corridor tree, Not impacted	Fence
24	12219 Sela	19" Pine	Protected	Corridor tree	Fence
25	12219 Sela	8" Crepe Myrtle	Not protected	Private tree, Topped	
26	12219 Sela	10" Crepe Myrtle	Not protected	Private tree, Topped	
27	12219 Sela	5" Crepe Myrtle	Not protected	Private tree, Topped	
28	12215 Sela	23" Bradford Pear	Protected	Corridor tree, Topped, Not impacted	
29	12215 Sela	4" Photinia	Not protected		Clearance prune
30	12215 Sela	4" Photinia	Not protected		Clearance prune
31	12215 Sela	13" Crepe Myrtle	Not protected	Topped	Clearance prune
32	12215 Sela	4' Sago	Not protected	Private tree, Not impacted	
33	12221 Sela	4" Photinia	Not protected		Clearance prune
34	12221 Sela	7" Crepe Myrtle	Not protected	Private tree, Topped	Clearance prune
35	12221 Sela	4" Photinia	Not protected		Clearance prune
36	12221 Sela	15" Crepe Myrtle	Not protected	Topped	Clearance prune
37	12221 Sela	4" Crepe Myrtle	Not protected	Topped	
38	12221 Sela	4" Crepe Myrtle	Not protected	Topped	
39	12221 Sela	10" Crepe Myrtle	Not protected	Topped	
40	12207 Sela	20" Bradford Pear	Not protected	Private tree, Topped to 12', Poor, Not impacted	
41	12207 Sela	1' Sago	Not protected	Private tree, Not impacted	
42	12207 Sela	3' Sago	Not protected	Private tree, Not impacted	
43	12203 Sela	18" Arizona Ash	Not protected	Corridor tree, 40% dieback	Clearance prune
44	12203 Sela	1" Crepe Myrtle	Not protected	Private tree, Not impacted	
45	12203 Sela	1" Peach	Not protected	Private tree, Not impacted	
46	12127 Sela	4' Sago	Not protected	Private tree	
47	12127 Sela	2" Ligustrum	Not protected	Private tree, Not impacted	
48	12127 Sela	6" Crepe Myrtle	Not protected	Private tree, Topped	
49	12127 Sela	17" Crepe Myrtle	Not protected	Private tree, Topped	
50	12127 Sela	2" Ligustrum	Not protected	Private tree, Not impacted	
51	12123 Sela	18" Crepe Myrtle	Not protected	Private tree, Topped	
52	12119 Sela	22" Arizona Ash	Protected	Trunk decay, Remove for condition	Remove tree, No replacement/mitigation required
53	12119 Sela	28" Arizona Ash	Protected		12' Checkerplate, Fence, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger, Clearance prune
54	12111 Sela	28" Water Oak	Protected	Remove for sidewalk	Remove tree, 28" replacement/mitigation required
55	12111 Sela	29" Live Oak	Protected	Corridor tree	Root prune for sidewalk, Fence, Clearance prune
56	12107 Sela	2" Crepe Myrtle	Not protected	Private tree	
57	12107 Sela	27" Arizona Ash	Protected	Corridor tree, Trunk decay, Poor	Clearance prune
58	12103 Sela	22" Crepe Myrtle	Protected	Remove for ADA accommodation compliance	Remove tree, 22" replacement/mitigation required
59	12103 Sela	10" Crepe Myrtle	Not protected	Private tree	Clearance prune
60	12103 Sela	8" Crepe Myrtle	Not protected	Topped	Clearance prune
61	12103 Sela	8" Crepe Myrtle	Not protected	Topped	Clearance prune
62	12103 Sela	12" Magnolia	Protected	Corridor tree, 80% dieback, Not impacted	
63	12103 Sela	8" Crepe Myrtle	Not protected	Topped	Clearance prune
64	12103 Sela	5" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
65	12122 Sela	5" Arizona Ash	Not protected	Private tree, Not impacted	
66	12118 Sela	11" Arizona Ash	Not protected		Clearance prune
67	12118 Sela	12" Arizona Ash	Not protected		Clearance prune
68	12114 Sela	18" Pine	Protected		Fence, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger, Bore waterline, Clearance prune
69	12114 Sela	3" Live Oak	Protected		Fence, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger, Bore waterline
70	12114 Sela	2" Live Oak	Protected		Fence, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger, Bore waterline
71	12106 Sela	11" Crepe Myrtle	Not protected	Private tree, Not impacted	
72	12106 Sela	22" Pecan	Protected	Corridor tree, 40% dieback	Root prune for sidewalk, Fence, Clearance prune
73	12106 Sela	19" Pecan	Protected		Fence, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger, Bore waterline, Hand dig for tap and lead
74	12102 Sela	13" Pecan	Protected		Hand dig for fire hydrant salvage, Fence, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger, Bore waterline
75	12102 Sela	28" Live Oak	Protected	Corridor tree	Fence, Root prune for street, Demo-form-pour walk without damage to roots 1" or larger, Bore waterline
76	12086 Sela	49" Arizona Ash	Protected	Corridor tree, 30% dieback	Fence, Root prune for street, Demo-form-pour walk without damage to roots 1" or larger, Bore waterline
77	12082 Sela	27" Water Oak	Protected	Remove for fire hydrant	Remove tree, 27" replacement/mitigation required
78	12082 Sela	23" Live Oak	Protected	Corridor tree	Fence, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger, Root prune for fire hydrant
79	12082 Sela	22" Live Oak	Protected	Remove for fire hydrant	Remove tree, 22" replacement/mitigation required
80	12082 Sela	24" Live Oak	Protected	Roots at driveway, Remove tree for ADA accommodations	Remove tree, 24" replacement/mitigation required
81	12074 Sela	14" Magnolia	Protected	Corridor tree, 40% dieback, Not impacted	

40 0 40

SCALE: 1"=40'

C.N. Koehl
Urban Forestry, Inc.
210 Stone Bush Ct. ◦ Katy, Texas 77493
281-391-0022 ckoehl@koehlurbanforestry.com

APPROVED:

ISANI
civil \ design \ engineers
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Houston, Texas 77042
P 713 747 2399
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TBPE Firm Reg. #4575

SURVEYED BY: Kuo&Associates
FB NO. P–

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

PAVING AND DRAINAGE IMPROVEMENTS IN ALIEF FOREST SOUTH AREA

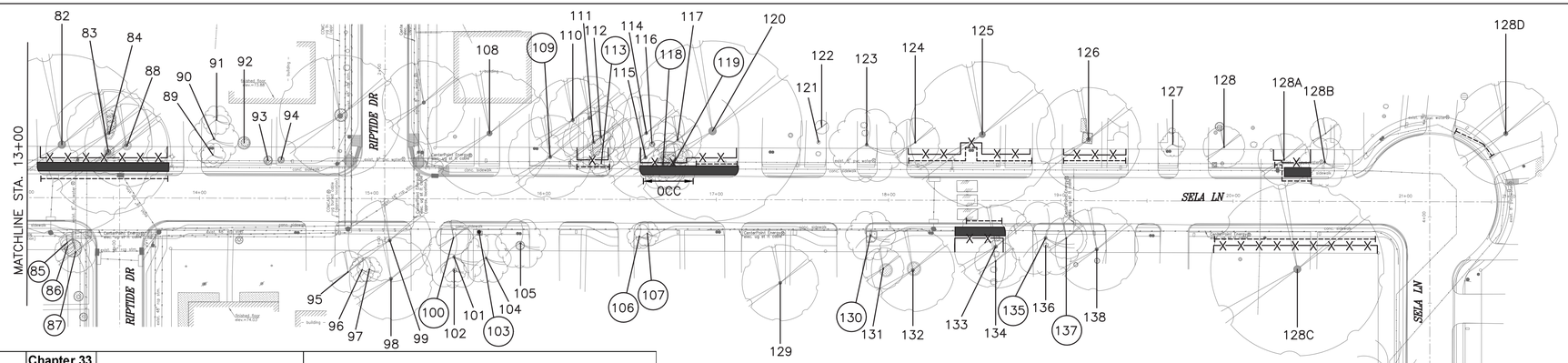
TREE PROTECTION PLAN

SHEET 1 OF 25

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 345 OF 369	

PLOTTED: 8/7/2026 5:38 PM

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Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees on Sela Lane					
82	12074 Sela	45" Arizona Ash	Protected	Corridor tree, Hollow, Poor	Fence, Demo-form-pour walk without damage to roots 1" or larger, Bore waterline, Root prune for street
83	12074 Sela	26" Pine	Protected		Fence, Demo-form-pour walk without damage to roots 1" or larger, Bore waterline, Root prune for street
84	12074 Sela	23" Pine	Protected	Corridor tree	Fence, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
85	7602 Riptide	7" Pecan	Not protected	Remove for sidewalk	Remove tree, 7" replacement/mitigation required
86	7602 Riptide	4" Peach	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
87	7602 Riptide	5' Sago	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
88	12070 Sela	20" Pine	Protected	Corridor tree	Fence, Demo-form-pour walk without damage to roots 1" or larger, Bore waterline, Root prune for street
89	12070 Sela	4" Crepe Myrtle	Not protected	Girdling rope	
90	12066 Sela	13" Crepe Myrtle	Not protected	Private tree	
91	12066 Sela	9" Crepe Myrtle	Not protected	Private tree	
92	12066 Sela	5" Loquat	Not protected	Private tree	
93	12066 Sela	2" Crepe Myrtle	Not protected		
94	12066 Sela	2" Crepe Myrtle	Not protected		
95	12063 Sela	2' Sago	Not protected	Private tree	
96	12063 Sela	6" Crepe Myrtle	Not protected	Private tree	
97	12063 Sela	6" Crepe Myrtle	Not protected	Private tree	
98	12063 Sela	35' Palm	Not protected	Private tree	
99	12063 Sela	25' Palm	Not protected		
100	12059 Sela	8" Eastern Red Cedar	Protected	Remove for sidewalk	Remove tree, 8" replacement/mitigation required
101	12059 Sela	13" Crepe Myrtle	Not protected	Private tree, Topped	
102	12059 Sela	4" Crepe Myrtle	Not protected	Private tree, Topped	
103	12059 Sela	2" Pecan	Protected	Remove for sidewalk	Remove tree, 2" replacement/mitigation required
104	12059 Sela	13" Crepe Myrtle	Not protected	Private tree, Topped	
105	12055 Sela	11" Crepe Myrtle	Not protected	Topped	
106	12051 Sela	6" Crepe Myrtle	Not protected	Topped, Remove for sidewalk	Remove tree, No replacement/mitigation required
107	12051 Sela	6" Crepe Myrtle	Not protected	Topped, Remove for sidewalk	Remove tree, No replacement/mitigation required
108	12058 Sela	22" Arizona Ash	Protected	Private tree, Topped	
109	Not Available	20" Bradford Pear	Protected	80% dieback, Remove for fire hydrant	Remove tree, 20" replacement/mitigation required
110	Not Available	50' Palm	Not protected	Private tree	
111	Not Available	17" Pine	Protected	Corridor tree	Fence, Root prune for water line
112	Not Available	18" Pine	Protected	Corridor tree	Fence, Root prune for water line
113	Not Available	5" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
114	Not Available	17" Pine	Protected	Corridor tree	
115	Not Available	22" Pine	Protected		Fence, Demo-form-pour walk without damage to roots 1" or larger, Bore waterline, Zero-curb-cutback
116	12050 Sela	6" Crepe Myrtle	Not protected	Topped	
117	12050 Sela	6" Crepe Myrtle	Not protected	Topped	
118	12050 Sela	6" Crepe Myrtle	Not protected	Topped, Remove for waterline	Remove tree, No replacement/mitigation required
119	12050 Sela	6" Crepe Myrtle	Not protected	Topped, Remove for waterline	Remove tree, No replacement/mitigation required
120	12050 Sela	51" Arizona Ash	Protected	Corridor tree, Topped	Fence, Root prune for sidewalk
121	12046 Sela	9" Chinaberry	Not protected	Private tree, Not impacted	
122	12046 Sela	8" Chinaberry	Not protected	Private tree	Clearance prune
123	12046 Sela	12" Crepe Myrtle	Not protected	Private tree, Topped	Clearance prune
124	12042 Sela	18" Pine	Not protected	Corridor tree	Fence, Root prune for water line
125	12038 Sela	28" Live Oak	Protected	Corridor tree, 50% dieback, Smooth patch	Fence, Root prune for tap & lead and waterline
126	12034 Sela	25" Live Oak	Protected	Corridor tree	Fence, Root prune for waterline, Clearance prune
127	12030 Sela	7" Crepe Myrtle	Not protected	Private tree	
128	12030 Sela	2" Peach	Not protected	Private tree, Not impacted	
128A	12026 Sela	12" Xylosma	Protected		Root prune for fire hydrant salvage and street, Fence, Demo-form-pour walk without damage to roots 1" or larger, Clearance prune
128B	12026 Sela	16" Crepe Myrtle	Not protected		Clearance prune
128C	12026 Sela	32" Live Oak	Protected	Corridor Tree	Root prune for sidewalk, Fence, Clearance prune
128D	12026 Sela	33" Live Oak	Protected	Corridor Tree	Root prune for water line
129	12047 Sela	13" Pine	Not protected	Private tree, Chlorotic, Not impacted	
130	12045 Sela	7" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
131	12045 Sela	10" Chinese Pastiche	Not protected	Private tree, Not impacted	
132	12045 Sela	19" Green Ash	Protected	Corridor tree, Not impacted	

NOTE:

1. THIS TREE PROTECTION PLAN WAS DEVELOPED WITH INFORMATION PROVIDED BY DESIGN ENGINEER IN DRAWINGS DATED JULY 2026. THE PLAN CONSIDERS ALL FITTINGS, VERTICAL OFFSETS AND AREAS OF NECESSARY EXCAVATION. CHANGES MADE TO DESIGN MAY COMPROMISE THE TREE PROTECTION PLAN. REFER SPECIFICATIONS 01562 AND 02915.
2. CN KOEHL URBAN FORESTRY, INC. HAS NOT BEEN CONTRACTED TO COMPLETE ANY TREE RISK ASSESSMENTS ON THIS PROJECT–THIS TPP INCLUDES PROTECTION MEASURES FOR SPECIES OF TREES PROTECTED BY APPLICABLE ORDINANCE ONLY. CN KOEHL URBAN FORESTRY, INC. DOES NOT GUARANTEE CONDITION OR STRUCTURAL INTEGRITY OF ANY TREE LOCATED ON OR ADJACENT TO THIS PROJECT.
3. IN AREAS WHERE INDIVIDUAL TREES HAVE NOT BEEN TIED IN BY SURVEY, APPROXIMATE LOCATION IS INDICATED ON TPP WITH A DOT AND TREE NUMBER. ACCURACY OF REPRESENTED LOCATION IS NOT GUARANTEED BY CN KOEHL URBAN FORESTRY, INC.
4. THE CONTRACTOR'S ARBORIST WILL MARK LOCATIONS OF TREES TO BE PLANTED AND OBTAIN APPROVAL BY CITY ENGINEER AND CITY FORESTER BEFORE PURCHASING OR EXCAVATING PLANTING HOLE OF EACH TREE.

TREE PRESERVATION PLAN LEGEND

- 1 — TREE NUMBER/LOCATION
- (1) — TREE TO BE REMOVED
- TREE PROTECTION FENCE
- ROOT PRUNING TRENCH
- SIDEWALK ON GRADE
- CHECKERPLATE SECTION
- OCC — ZERO CUTBACK CURB

40 0 40

SCALE: 1"=40'

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SURVEYED BY: Kuo&Associates
FB NO. P–

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

PAVING AND DRAINAGE IMPROVEMENTS IN ALIEF FOREST SOUTH AREA

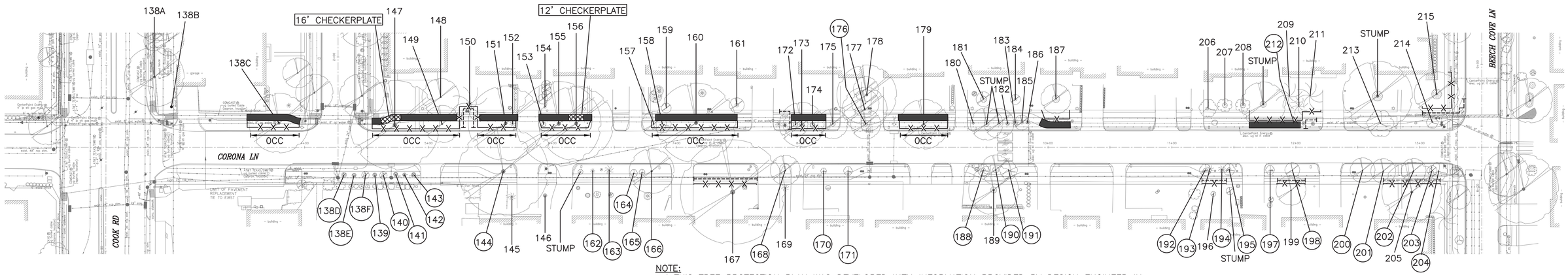
TREE PROTECTION PLAN

SHEET 2 OF 25

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 346 OF 369	

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NOTE:

1. THIS TREE PROTECTION PLAN WAS DEVELOPED WITH INFORMATION PROVIDED BY DESIGN ENGINEER IN DRAWINGS DATED JULY 2026. THE PLAN CONSIDERS ALL FITTINGS, VERTICAL OFFSETS AND AREAS OF NECESSARY EXCAVATION. CHANGES MADE TO DESIGN MAY COMPROMISE THE TREE PROTECTION PLAN. REFER SPECIFICATIONS 01562 AND 02915.
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TREE PRESERVATION PLAN LEGEND

- 1 — TREE NUMBER/LOCATION
- (1) — TREE TO BE REMOVED
- –X–X– TREE PROTECTION FENCE
- ROOT PRUNING TRENCH
- SIDEWALK ON GRADE
- CHECKERPLATE SECTION
- –OCC– ZERO CUTBACK CURB

Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees on Corona Lane					
133	12039 Sela	21" Live Oak	Protected		Fence, Demo-form-pour walk without damage to roots 1" or larger, Root prune for street, Clearance prune
134	12039 Sela	4' Sago	Not protected	Private tree	
135	12035 Sela	17" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
136	12035 Sela	7" Crepe Myrtle	Not protected		
137	12035 Sela	4' Loquat	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
138	12035 Sela	18" Crepe Myrtle	Not protected		Clearance prune
138A	Not Available	22" Arizona Ash	Protected	Not impacted	
138B	Not Available	14" Sugarberry	Not protected	Private tree	
138C	Not Available	22" Tallow	Protected		Fence, Demo-form-pour walk without damage to roots 1" or larger, Bore waterline, Zero curb cutback, Clearance prune
138D	12026 Sela	4" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
138E	12026 Sela	4" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
138F	12026 Sela	4" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
139	12026 Sela	4" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
140	12026 Sela	4" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
141	12026 Sela	4" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
142	12026 Sela	4" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
143	12026 Sela	4" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
144	12218 Corona	31" Arizona Ash	Protected	Topped, Remove for storm drain	Remove tree
145	12218 Corona	2" Crepe Myrtle	Not protected	Private tree	
146	12218 Corona	2" Crepe Myrtle	Not protected	Private tree	
147	12222 Corona	33" Live Oak	Protected		16' checkerplate, Demo-form-pour walk without damage to roots 1" or larger, Fence, Bore waterline, Zero Curb Cutback, Clearance prune
148	12222 Corona	19" Live Oak	Protected	Private tree, Severely over pruned	
149	12222 Corona	16" Live Oak	Protected	Private tree	Fence, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger, Zero-curb-cutback
150	12218 Corona	21" Pine	Protected	Private tree	Fence, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
151	12218 Corona	27" Arizona Ash	Protected		Fence, Root prune for tap and lead, bore waterline, Demo-form-pour walk without damage to roots 1" or larger
152	12218 Corona	3' Sago	Not protected		Fence, Bore waterline, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger, Clearance prune
153	12218 Corona	3' Sago	Not protected		
154	12218 Corona	1' Sago	Not protected	Private tree	
155	12214 Corona	28" Live Oak	Protected		Fence, Bore waterline, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger
156	12214 Corona	23" Live Oak	Protected		12' checkerplate, Fence, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger, Clearance prune
157	12210 Corona	11" Arborvitae	Not protected		Clearance prune
158	12210 Corona	2" Crepe Myrtle	Not protected		clearance prune
159	12210 Corona	6" Loquat	Not protected		Clearance prune
160	12206 Corona	27" Live Oak	Protected		Fence, Hand dig tap&lead, Bore waterline, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger, Clearance prune
161	12206 Corona	3" Mulberry	Protected	Private tree, Not impacted	
162	12215 Corona	2' Sago	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
163	12215 Corona	5' Palm	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
164	12211 Corona	2" Crepe Myrtle	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
165	12211 Corona	2" Crepe Myrtle	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
166	12211 Corona	17" Live Oak	Protected	Remove for storm	Remove tree, No replacement/mitigation required
167	12207 Corona	39" Live Oak	Protected	Private tree	Root prune for storm, Fence, Clearance prune
168	12207 Corona	12" Tallow	Not protected	Dead, Remove for storm	Remove tree, No replacement/mitigation required
169	12207 Corona	5' Sago	Not protected		
170	12203 Corona	6" Crepe Myrtle	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
171	12203 Corona	6" Crepe Myrtle	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
172	12202 Corona	10" Arborvitae	Not protected		
173	12202 Corona	15" Pecan	Protected		Fence, Zero-curb-cutback, Bore waterline, Root prune for fire hydrant, Clearance prune
174	12202 Corona	4" Oleander	Not protected		
175	12202 Corona	14" Arborvitae	Not protected		
176	12202 Corona	12" Arborvitae	Not protected	Private tree, Remove for drive	Remove tree, No replacement/mitigation required
177	12202 Corona	14" Arborvitae	Not protected	Private tree	
178	12202 Corona	10" Oleander	Not protected	Private tree	
179	12126 Corona	20" Bradford Pear	Protected	Topped, 90% dieback	Fence, Zero Curb Cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
180	12122 Corona	1" Crepe Myrtle	Not protected		
181	12122 Corona	14" Live Oak	Protected	Private tree, Topped, Not impacted	
182	12122 Corona	3" Crepe Myrtle	Not protected	Topped	
183	12122 Corona	3' Sago	Not protected		
184	12122 Corona	10" Redbud	Protected	Private tree, Not impacted	
185	12122 Corona	3" Crepe Myrtle	Not protected	Topped	
186	12122 Corona	1" Juniper	Not protected		
187	12118 Corona	19" Live Oak	Protected	Private tree	Fence, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
188	12123 Corona	5" Crepe Myrtle	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
189	12123 Corona	22" Willow Oak	Protected	Private tree	
190	12123 Corona	12" Arborvitae	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
191	12123 Corona	5" Crepe Myrtle	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
192	12111 Corona	11" Crepe Myrtle	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
193	12111 Corona	11" Crepe Myrtle	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
194	12111 Corona	5' Sago	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
195	12111 Corona	10" Crepe Myrtle	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
196	12111 Corona	12" Pecan	Protected	Private tree	Remove tree, No replacement/mitigation required
197	12111 Corona	6" Crepe Myrtle	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
198	12107 Corona	10" Pecan	Protected	Remove for storm	Remove tree, Provide 10" replacement/mitigation
199	12107 Corona	14" Pecan	Protected	Private tree	Fence, Root prune for storm
200	12103 Corona	4" Vitex	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
201	12103 Corona	4" Vitex	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
202	12103 Corona	4" Vitex	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
203	12103 Corona	4" Vitex	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
204	12103 Corona	4" Vitex	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
205	12103 Corona	23" Sweetgum	Protected	Private tree, Topped	Fence, Root prune for storm
206	10110 Corona	14" Crepe Myrtle	Not protected	Private tree, Topped	
207	10110 Corona	13" Arborvitae	Not protected	Private tree	
208	10110 Corona	13" Arborvitae	Not protected	Private tree	
209	12106 Corona	21" Pine	Protected	Private tree	Fence, Root prune for fire hydrant, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
210	12106 Corona	16" Pine	Protected	Private tree	Fence, Root prune for fire hydrant, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
211	12106 Corona	17" Pine	Protected	Private tree	Fence, Root prune for fire hydrant, Bore waterline
212	12106 Corona	1" Sago	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
213	12102 Corona	12" Crepe Myrtle	Not protected		Clearance prune
214	12102 Corona	7" Crepe Myrtle	Not protected		
215	12102 Corona	21" Arborvitae	Protected	Private tree	Fence, Clearance prune, Root prune for waterline and sidewalk

40 0 40

SCALE: 1"=40'

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TBPE Firm Reg. #4575

SURVEYED BY: Kuo&Associates
FB NO. P–

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

PAVING AND DRAINAGE IMPROVEMENTS IN ALIEF FOREST SOUTH AREA

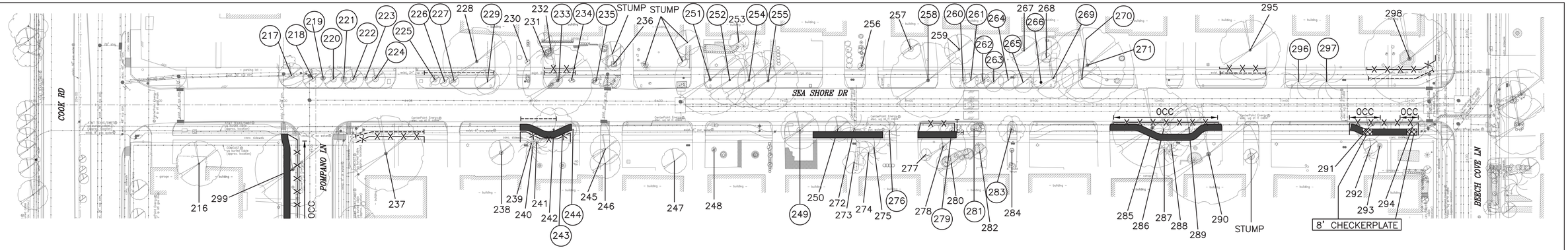
TREE PROTECTION PLAN

SHEET 3 OF 25

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 347 OF 369	

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NOTE:

1. THIS TREE PROTECTION PLAN WAS DEVELOPED WITH INFORMATION PROVIDED BY DESIGN ENGINEER IN DRAWINGS DATED JULY 2026. THE PLAN CONSIDERS ALL FITTINGS, VERTICAL OFFSETS AND AREAS OF NECESSARY EXCAVATION. CHANGES MADE TO DESIGN MAY COMPROMISE THE TREE PROTECTION PLAN. REFER SPECIFICATIONS 01562 AND 02915.
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TREE PRESERVATION PLAN LEGEND

- 1 — TREE NUMBER/LOCATION
- (1) — TREE TO BE REMOVED
- –X–X– — TREE PROTECTION FENCE
- ------ — ROOT PRUNING TRENCH
- SIDEWALK ON GRADE
- CHECKERPLATE SECTION
- OCC — ZERO CUTBACK CURB

Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees on Sea Shore Drive					
216	12247 Pompano	7" Pecan	Protected	Private tree, Not impacted	
217	12222 Sea Shore	6" Crepe Myrtle	Not protected	Remove tree for storm, Topped	Remove tree, No replacement/mitigation required
218	12222 Sea Shore	3" Arborvitae	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
219	12222 Sea Shore	5" Crepe Myrtle	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
220	12222 Sea Shore	4" Arborvitae	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
221	12222 Sea Shore	7" Crepe Myrtle	Not protected	Remove tree for storm, Topped	Remove tree, No replacement/mitigation required
222	12222 Sea Shore	4" Arborvitae	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
223	12222 Sea Shore	4" Arborvitae	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
224	12222 Sea Shore	4" Arborvitae	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
225	12222 Sea Shore	2" Arborvitae	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
226	12222 Sea Shore	3" Arborvitae	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
227	12218 Sea Shore	1" Raintree	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
228	12218 Sea Shore	36" Live Oak	Protected	Private tree	Clearance prune, Root prune for storm
229	12218 Sea Shore	6" Lacebark Elm	Protected	Remove for storm	Remove tree, 6" replacement/mitigation required
230	12214 Sea Shore	2" Crepe Myrtle	Not protected	Private tree, Not impacted	
231	12214 Sea Shore	15" Pine	Protected	Private tree	Fence, Root prune for storm
232	12214 Sea Shore	14" Pine	Protected	Private tree	Fence, Root prune for storm
233	12214 Sea Shore	23" Arizona Ash	Protected	Remove for storm	Remove tree, 23" replacement/mitigation required
234	12214 Sea Shore	2" Magnolia	Protected	Remove for storm	Remove tree, 2" replacement/mitigation required
235	12214 Sea Shore	2 Vitex	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
236	12210 Sea Shore	7" Crepe Myrtle	Not protected	Private tree, Topped	
237	12223 Sea Shore	28" Shumard Oak	Protected	Private tree, Severely over pruned	Fence, Root prune for sidewalk, Bore waterline
238	12219 Sea Shore	13" Lacebark Elm	Protected	Private tree	Fence, Demo-form-pour walk without damage to roots 1" or larger
239	12215 Sea Shore	15" Pine	Protected	Private tree	Fence, Bore waterline, Root prune for street, Hand dig tap and lead, Demo-form-pour walk without damage to roots 1" or larger
240	12215 Sea Shore	20" Pine	Protected	Private tree	Fence, Root prune for street, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
241	12215 Sea Shore	16" Pine	Protected	Private tree	Fence, Root prune for street, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
242	12215 Sea Shore	14" Crepe Myrtle	Not protected		Demo-form-pour walk without damage to roots 1" or larger, Root prune for street, Fence
243	12215 Sea Shore	6" Sago	Not protected	Remove for walk	Remove tree, No replacement/mitigation required
244	12215 Sea Shore	3" Pecan	Protected	Remove for sidewalk	Remove tree, 3" replacement/mitigation required
245	12215 Sea Shore	14" Arborvitae	Not protected	Private tree, Not impacted	
246	12215 Sea Shore	14" Arborvitae	Not protected	Private tree, Not impacted	
247	12211 Sea Shore	11" Magnolia	Protected	Private tree, Not impacted	
248	12207 Sea Shore	10" Live Oak	Protected	Private tree	Clearance prune
249	12203 Sea Shore	12" Arborvitae	Not protected	Private tree, Not impacted	Remove tree, No replacement/mitigation required
250	12203 Sea Shore	11" Arborvitae	Not protected		Clearance prune
251	12206 Sea Shore	26" Live Oak	Protected	Remove for storm	Remove tree, 26" replacement/mitigation required
252	12206 Sea Shore	18" Live Oak	Protected	Remove for storm	Remove tree, 18" replacement/mitigation required
253	12206 Sea Shore	5" Ligustrum	Not protected	Private tree	
254	12206 Sea Shore	24" Live Oak	Protected	Remove for storm	Remove tree, 24" replacement/mitigation required
255	12206 Sea Shore	22" Live Oak	Protected	Remove for storm	Remove tree, 22" replacement/mitigation required
256	12126 Sea Shore	4" Crepe Myrtle	Not protected	Private tree	Clearance prune
257	12126 Sea Shore	5" Peach	Not protected	Private tree, Not impacted	
258	12126 Sea Shore	31" Arizona Ash	Protected	Remove for storm	Remove tree, 31" replacement/mitigation required
259	12122 Sea Shore	13" Shumard Oak	Protected	Private tree, 60% dieback	
260	12122 Sea Shore	1" Sago	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
261	12122 Sea Shore	7" Crepe Myrtle	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
262	12122 Sea Shore	6" Green Ash	Protected	Remove for storm	Remove tree, 6" replacement/mitigation required
263	12122 Sea Shore	7" Crepe Myrtle	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
264	12122 Sea Shore	7" Crepe Myrtle	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
265	12118 Sea Shore	7" Crepe Myrtle	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
266	12118 Sea Shore	7" Crepe Myrtle	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
267	12118 Sea Shore	16" Bradford Pear	Not protected	Private tree	Clearance prune
268	12118 Sea Shore	7" Crepe Myrtle	Not protected	Private tree	Clearance prune
269	12118 Sea Shore	18" Arborvitae	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
270	12118 Sea Shore	18" Arborvitae	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
271	12118 Sea Shore	38" Live Oak	Protected	Remove for storm	Remove tree, 38" replacement/mitigation required
272	12127 Sea Shore	16" Pine	Protected		Fence, Hand dig tap and lead, Bore waterline, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger
273	12127 Sea Shore	10" Crepe Myrtle	Not protected	Private tree	
274	12127 Sea Shore	16" Pine	Protected	Private tree, Suppressed	Fence, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
275	12127 Sea Shore	20" Pine	Protected	Private tree	Fence, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
276	12127 Sea Shore	16" Pine	Protected	Remove for sidewalk	Remove tree, 16" replacement/mitigation required
277	12127 Sea Shore	6" Crepe Myrtle	Not protected	Private tree	
278	12123 Sea Shore	21" Water Oak	Protected	Private tree	Fence, Clearance prune, Root prune for fire hydrant, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
279	12123 Sea Shore	8" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
280	12123 Sea Shore	10" Crepe Myrtle	Not protected	Private tree	
281	12123 Sea Shore	10" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
282	12123 Sea Shore	9" Sweetgum	Protected	Private tree, Not impacted	
283	12123 Sea Shore	6" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
284	12123 Sea Shore	6" Crepe Myrtle	Not protected	Private tree	
285	12115 Sea Shore	24" Live Oak	Protected		Fence, Clearance prune, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
286	12115 Sea Shore	17" Pine	Protected		Fence, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
287	12115 Sea Shore	21" Pine	Protected	Private tree	Fence, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
288	12115 Sea Shore	16" Pine	Protected		Fence, Hand dig tap and lead, Bore waterline, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger
289	12111 Sea Shore	14" Live Oak	Protected		Fence, Clearance prune, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
290	12111 Sea Shore	38" Live Oak	Protected	Private tree	Fence, Clearance prune, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
291	12103 Sea Shore	12" Live Oak	Protected		Fence, Clearance prune, 8' Checkerplate, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
292	12103 Sea Shore	8" Magnolia	Protected	Private tree	Clearance prune
293	12103 Sea Shore	4" Pecan	Protected	Private tree	Clearance prune
294	12103 Sea Shore	12" Live Oak	Protected		Fence, Clearance prune, 8' Checkerplate, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
295	12108 Sea Shore	27" Catalpa	Protected	Private tree	Fence, Root prune for storm, Clearance prune
296	12108 Sea Shore	23" Pine	Protected	Remove for storm	Remove tree, 23" replacement/mitigation required
297	12108 Sea Shore	19" Pine	Protected	Remove for storm	Remove tree, 19" replacement/mitigation required
298	12102 Sea Shore	37" Arizona Ash	Protected	Private tree, Topped	Fence, Root prune for storm

40 0 40

SCALE: 1"=40'

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SURVEYED BY: Kuo&Associates
FB NO. P–

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

PAVING AND DRAINAGE IMPROVEMENTS IN ALIEF FOREST SOUTH AREA

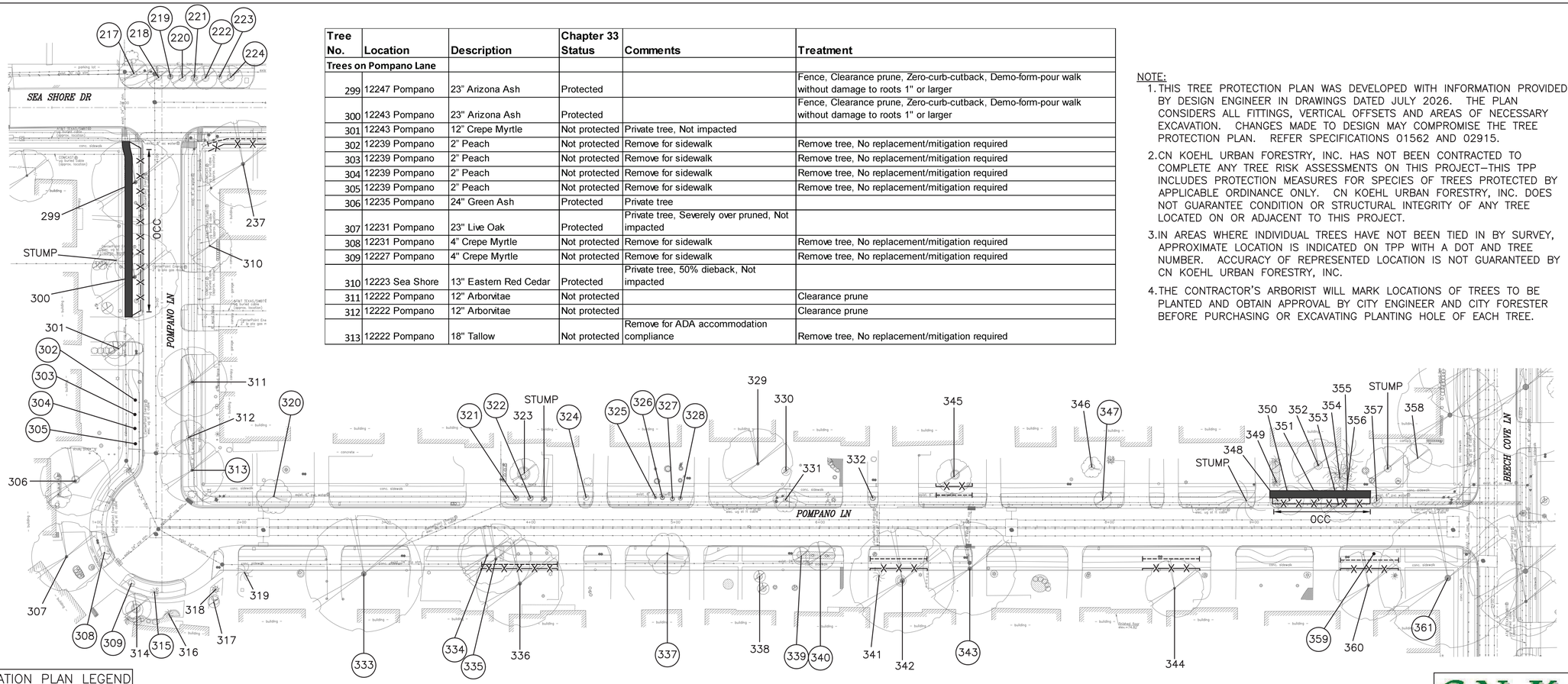
TREE PROTECTION PLAN

SHEET 4 OF 25

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 348 OF 369	

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SCALE: 1"=40'

Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees on Pompano Lane					
299	12247 Pompano	23" Arizona Ash	Protected		Fence, Clearance prune, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger
300	12243 Pompano	23" Arizona Ash	Protected		Fence, Clearance prune, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger
301	12243 Pompano	12" Crepe Myrtle	Not protected	Private tree, Not impacted	
302	12239 Pompano	2" Peach	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
303	12239 Pompano	2" Peach	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
304	12239 Pompano	2" Peach	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
305	12239 Pompano	2" Peach	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
306	12235 Pompano	24" Green Ash	Protected	Private tree	
307	12231 Pompano	23" Live Oak	Protected	Private tree, Severely over pruned, Not impacted	
308	12231 Pompano	4" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
309	12227 Pompano	4" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
310	12223 Sea Shore	13" Eastern Red Cedar	Protected	Private tree, 50% dieback, Not impacted	
311	12222 Pompano	12" Arborvitae	Not protected		Clearance prune
312	12222 Pompano	12" Arborvitae	Not protected		Clearance prune
313	12222 Pompano	18" Tallow	Not protected	Remove for ADA accommodation compliance	Remove tree, No replacement/mitigation required

NOTE:

1. THIS TREE PROTECTION PLAN WAS DEVELOPED WITH INFORMATION PROVIDED BY DESIGN ENGINEER IN DRAWINGS DATED JULY 2026. THE PLAN CONSIDERS ALL FITTINGS, VERTICAL OFFSETS AND AREAS OF NECESSARY EXCAVATION. CHANGES MADE TO DESIGN MAY COMPROMISE THE TREE PROTECTION PLAN. REFER SPECIFICATIONS 01562 AND 02915.
2. CN KOEHL URBAN FORESTRY, INC. HAS NOT BEEN CONTRACTED TO COMPLETE ANY TREE RISK ASSESSMENTS ON THIS PROJECT–THIS TPP INCLUDES PROTECTION MEASURES FOR SPECIES OF TREES PROTECTED BY APPLICABLE ORDINANCE ONLY. CN KOEHL URBAN FORESTRY, INC. DOES NOT GUARANTEE CONDITION OR STRUCTURAL INTEGRITY OF ANY TREE LOCATED ON OR ADJACENT TO THIS PROJECT.
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4. THE CONTRACTOR'S ARBORIST WILL MARK LOCATIONS OF TREES TO BE PLANTED AND OBTAIN APPROVAL BY CITY ENGINEER AND CITY FORESTER BEFORE PURCHASING OR EXCAVATING PLANTING HOLE OF EACH TREE.

TREE PRESERVATION PLAN LEGEND

- 1 — TREE NUMBER/LOCATION
- (1) — TREE TO BE REMOVED
- –X–X– — TREE PROTECTION FENCE
- ROOT PRUNING TRENCH
- SIDEWALK ON GRADE
- CHECKERPLATE SECTION
- OCC — ZERO CUTBACK CURB

Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees on Pompano Lane					
314	12227 Pompano	11" Water Oak	Protected	Private tree, 80% dieback	
315	12227 Pompano	4' Sago	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
316	12227 Pompano	6' Sago	Not protected	Private tree	
317	12227 Pompano	10" Sugarberry	Protected	Private tree, Not impacted	
318	12227 Pompano	3' Sago	Not protected	Private tree	
319	12223 Pompano	4' Sago	Not protected	Private tree	
320	12222 Pompano	10" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
321	12210 Pompano	5" Eastern Red Oak	Protected	Remove for sidewalk	Remove tree, 5" replacement/mitigation required
322	12210 Pompano	7" Eastern Red Cedar	Protected	Remove for sidewalk	Remove tree, 7" replacement/mitigation required
323	12210 Pompano	12" Live Oak	Protected	Private tree	
324	12210 Pompano	7" Eastern Red Cedar	Protected	Remove for sidewalk	Remove tree, 7" replacement/mitigation required
325	12206 Pompano	2" Peach	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
326	12206 Pompano	2" Peach	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
327	12206 Pompano	2" Peach	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
328	12206 Pompano	2" Peach	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
329	12202 Pompano	22" Pecan	Protected	Private tree, 50% dieback	
330	12126 Pompano	3" Crepe Myrtle	Not protected	Private tree	
331	12126 Pompano	6" Crepe Myrtle	Not protected		Clearance prune
332	12126 Pompano	2" Crepe Myrtle	Not protected		
333	12219 Pompano	41" Arizona Ash	Protected	Private tree, Remove for storm	Remove tree, 41" replacement/mitigation required
334	12215 Pompano	16" Pine	Protected	Remove for sidewalk and storm	Remove tree, 16" replacement/mitigation required
335	12215 Pompano	8" Pine	Protected	Remove for sidewalk and storm	Remove tree, 8" replacement/mitigation required

Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees on Pompano Lane					
336	12211 Pompano	27" Live Oak	Protected	Private tree	Fence, Root prune for storm, Clearance prune
337	12207 Pompano	12" Crepe Myrtle	Not protected	Private tree, Remove for sidewalk	Remove tree, No replacement/mitigation required
338	12203 Pompano	5" Magnolia	Protected	Private tree	Clearance prune
339	12127 Pompano	10" Eastern Red Cedar	Protected	Remove for sidewalk	Remove tree, 10" replacement/mitigation required
340	12127 Pompano	11" Redbud	Protected	Remove for sidewalk	Remove tree, 11" replacement/mitigation required
341	12123 Pompano	3' Sago	Not protected	Private tree	Fence, Root prune for sidewalk
342	12123 Pompano	36" Mulberry	Protected	Private tree	Fence, Root prune for storm, Clearance prune
343	12123 Pompano	18" Arborvitae	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
344	12111 Pompano	25" Pecan	Protected	Private tree	Fence, Root prune for storm, Clearance prune
345	12122 Pompano	12" Pecan	Protected	Private tree	Fence, Root prune for sidewalk, Clearance prune
346	12114 Pompano	11" Crepe Myrtle	Not protected	Private tree, Topped	
347	12114 Pompano	29" Tallow	Protected	Remove for sidewalk	Remove tree, 29" replacement/mitigation required
348	12106 Pompano	4' Sago	Not protected		
349	12106 Pompano	4' Sago	Not protected		Clearance prune
350	12106 Pompano	15" Green Ash	Protected		Fence, Clearance prune, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
351	12106 Pompano	8" Green Ash	Protected		Fence, Clearance prune, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger
352	12106 Pompano	19" Pecan	Protected	Private tree	
353	12106 Pompano	2" Crepe Myrtle	Not protected		
354	12106 Pompano	15" Pine	Protected	Private tree	Fence, Clearance prune, Bore waterline, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger
355	12102 Pompano	3' Palm	Protected	Private tree	
356	12102 Pompano	14" Green Ash	Protected		Fence, Clearance prune, Bore waterline, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger
357	12102 Pompano	9" Chinaberry	Not protected		Clearance prune
358	12102 Pompano	12" Magnolia	Protected	Private tree, Not impacted	
359	12103 Pompano	2" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
360	12103 Pompano	19" Sugarberry	Protected	Private tree	Fence, Root prune for storm, Clearance prune
361	12103 Pompano	46" Live Oak	Protected	Remove for storm	Remove tree, 46" replacement/mitigation required

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SURVEYED BY: Kuo&Associates
FB NO. P–

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

PAVING AND DRAINAGE IMPROVEMENTS IN ALIEF FOREST SOUTH AREA

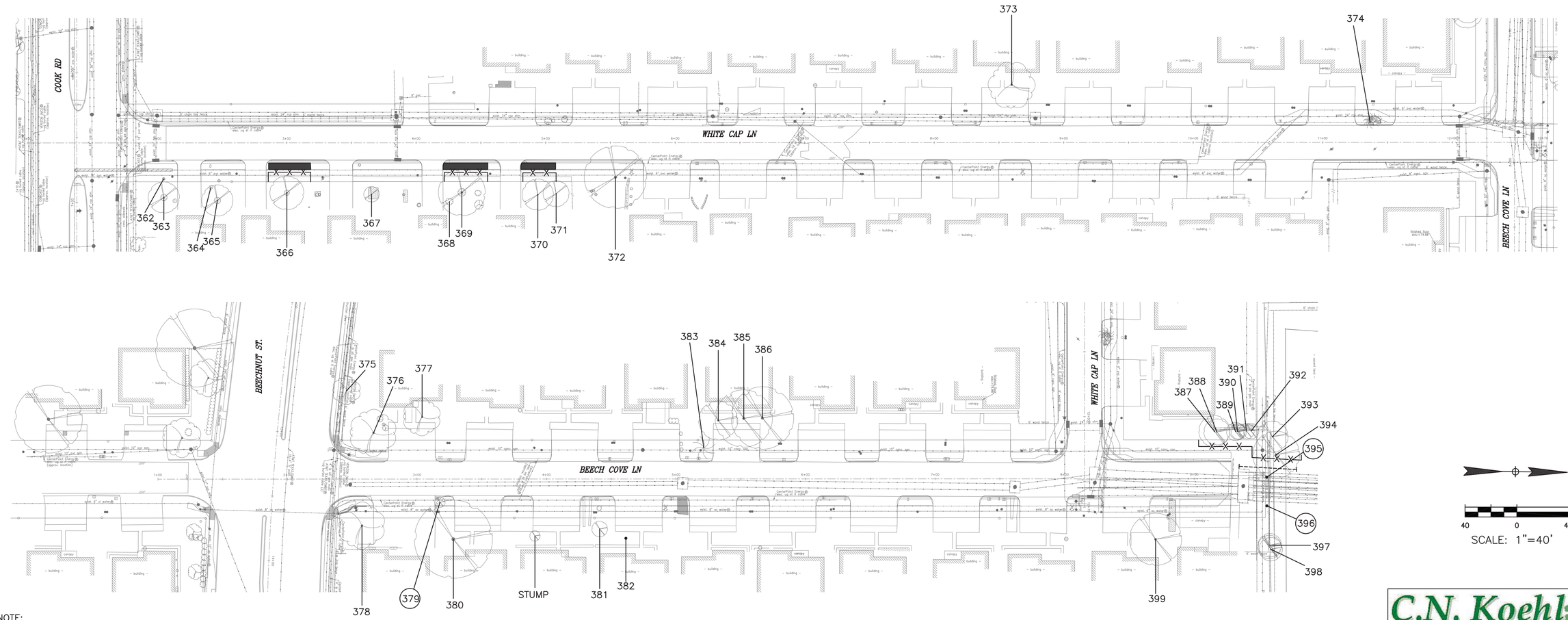
TREE PROTECTION PLAN

SHEET 5 OF 25

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 349 OF 369	

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SCALE: 1"=40'

NOTE:

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TREE PRESERVATION PLAN LEGEND

1	TREE NUMBER/LOCATION
①	TREE TO BE REMOVED
–X–X–	TREE PROTECTION FENCE
------	ROOT PRUNING TRENCH
	SIDEWALK ON GRADE
	CHECKERPLATE SECTION
OCC	ZERO CUTBACK CURB

Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees on White Cap Lane					
362	12225 White Cap	1" Crepe Myrtle	Not protected		
363	12225 White Cap	18" Live Oak	Protected	Private tree, Not impacted	
364	12225 White Cap	3" Crepe Myrtle	Not protected	Private tree, Not impacted	
365	12225 White Cap	22" Live Oak	Protected	Private tree, Topped, Not impacted	
366	12221 White Cap	20" Live Oak	Protected	Private tree	Fence, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
367	12227 White Cap	11" Live Oak	Protected	Private tree, Not impacted	
368	12223 White Cap	5' Sago	Not protected	Private tree	
369	12223 White Cap	22" Live Oak	Protected	Private tree	Fence, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
370	12219 White Cap	17" Live Oak	Protected	Private tree	Fence, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
371	12219 White Cap	12" Live Oak	Protected	Private tree, Not impacted	
372	12213 White Cap	17" Tallow	Not protected	Multitrunked	
373	12122 White Cap	19" Crepe Myrtle	Not protected	Private tree, Not impacted	
374	121102 White Cap	8' Palm	Not protected		

Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees on Beech Cove Lane					
375	8132 Beech Cove	15" Crepe Myrtle	Not protected		
376	8132 Beech Cove	14" Crepe Myrtle	Not protected	Private tree	
377	8132 Beech Cove	11" Crepe Myrtle	Not protected	Private tree, Topped	
378	8133 Beech Cove	16" Crepe Myrtle	Not protected	Private tree	
379	8127 Beech Cove	4' Banana	Not protected	Remove for tap and lead	Remove tree, No replacement/mitigation required
380	8127 Beech Cove	24" Siberian Elm	Protected	Private tree, 70% dieback, Not impacted	
381	3119 Beech Cove	7" Green Ash	Not protected	Private tree	
382	3119 Beech Cove	8" Loquat	Not protected	Private tree, Not impacted	
383	8116 Beech Cove	20' Palm	Not protected		
384	8116 Beech Cove	12" Live Oak	Not protected	Private tree, Not impacted	
385	8116 Beech Cove	21" Live Oak	Protected	Private tree, Not impacted	
386	8116 Beech Cove	23" Live Oak	Protected	Private tree, Not impacted	
387	21101 White Cap	15" Sugarberry	Not protected	Private tree	Fence
388	21101 White Cap	16" Sugarberry	Not protected	Private tree	Fence
389	21101 White Cap	8" Sugarberry	Not protected	Private tree	Fence
390	21101 White Cap	10" Sugarberry	Not protected	Private tree	Fence
391	21101 White Cap	7" Sugarberry	Not protected	Private tree	Fence
392	21101 White Cap	8" Sugarberry	Not protected	Private tree, Topped by CPE	Fence, Root prune
393	21101 White Cap	13" Sugarberry	Not protected	Private tree, Topped by CPE	Fence, Root prune
394	Not Available	17" Sugarberry	Not protected	Private tree, Topped by CPE	Fence, Root prune
395	Not Available	5" Sugarberry	Protected	Remove for storm	Remove tree, 5" replacement/mitigation required
396	Not Available	6" Tallow	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
397	8015 Beech Cove	6" Mulberry	Protected	Not impacted	
398	8015 Beech Cove	6" Mulberry	Protected	Not impacted	
399	8017 Beech Cove	17" Arizona Ash	Not protected	Private tree, Dead	

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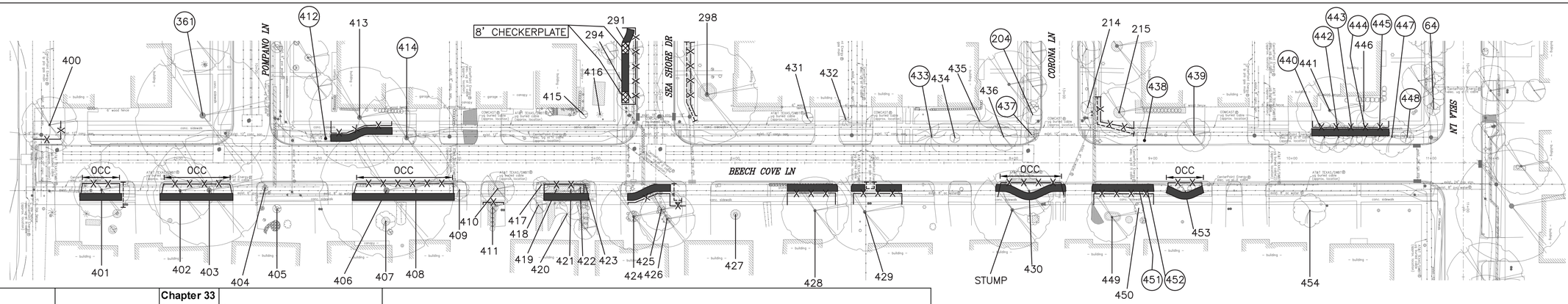
TREE PROTECTION PLAN

SHEET 6 OF 25

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 350 OF 369	

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Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees on Beech Cove Lane					
400	12103 Pompano	21" Sugarberry	Protected	Topped by CPE, 80% dieback	Fence, Clearance prune
401	7811 Beech Cove	20" Tallow	Protected		Fence, Clearance prune, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger, Root prune for tap and lead
402	7807 Beech Cove	21" Live Oak	Protected		Fence, Clearance prune, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
403	7807 Beech Cove	28" Live Oak	Protected		Fence, Clearance prune, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
404	7803 Beech Cove	1' Sago Palm	Not protected		
405	7803 Beech Cove	9" Live Oak	Protected	Private tree	Clearance prune
406	7715 Beech Cove	34" Arizona Ash	Protected	Trunk cavities	Fence, Clearance prune, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
407	7715 Beech Cove	12" Crepe Myrtle	Not protected	Private tree	Fence, Clearance prune, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
408	7711 Beech Cove	2" Crepe Myrtle	Not protected		Fence, Clearance prune, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
409	7711 Beech Cove	8" Crepe Myrtle	Not protected		Clearance prune
410	7711 Beech Cove	8' Sago Palm	Not protected		
411	7711 Beech Cove	5" Live Oak	Protected	Private tree, Topped	Fence
412	12102 Pompano	5" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
413	12102 Pompano	16" Redbud	Protected	Private tree	Fence, Clearance prune, Demo-form-pour walk without damage to roots 1" or larger
414	12102 Pompano	16" Chinaberry	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
415	12103 Sea Shore	8" Redbud	Not protected	Private tree	Clearance prune
416	12103 Sea Shore	10" Pine	Not protected	Private tree	
417	12207 Beech Cove	6" Crepe Myrtle	Not protected	Topped	
418	12207 Beech Cove	5" Arborvitae	Not protected	Private tree	Clearance prune
419	12207 Beech Cove	3" Ligustrum	Not protected		
420	12207 Beech Cove	15" Pine	Protected	Private tree	Fence, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
421	12207 Beech Cove	3" Crepe Myrtle	Not protected	Topped	
422	12207 Beech Cove	6" Fig	Not protected		
423	12207 Beech Cove	5" Crepe Myrtle	Not protected	Topped	
424	7703 Beech Cove	18" Tallow	Not protected	Private tree	Fence, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
425	7703 Beech Cove	19" Pecan	Protected		Fence, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
426	7703 Beech Cove	22" Willow Oak	Protected		Fence, Bore waterline, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger, Root prune for tap and lead, Clearance prune
427	7631 Beech Cove	3" Sugarberry	Protected	Private tree	
428	7627 Beech Cove	24" Tallow	Protected	Private tree	Fence, Clearance prune, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
429	7623 Beech Cove	22" Tallow	Protected	Private tree	Fence, Clearance prune, Bore waterline, Root prune for tap, Hand dig lead, Demo-form-pour walk without damage to roots 1" or larger
430	7619 Beech Cove	22" Live Oak	Protected		Fence, Clearance prune, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger, Hand dig tap and lead
431	12107 Sea Shore	3" Eastern Red Cedar	Protected	Private tree	
432	12107 Sea Shore	7" Pine	Protected		Clearance prune
433	12103 Corona	19" Pine	Protected	Remove for ADA compliance	Remove tree, 19" replacement/mitigation required
434	12103 Corona	4" Crepe Myrtle	Not protected	Topped	
435	12103 Corona	15" Pine	Protected	Dead	
436	12103 Corona	6" Crepe Myrtle	Not protected	Topped	Clearance prune
437	12103 Corona	3" Vitex	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
438	12102 Corona	1' Sago	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
439	12102 Corona	10" Arborvitae	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
440	12103 Sela	16" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
441	12103 Sela	26" Bald Cypress	Protected	Private tree	Fence, Demo-form-pour walk without damage to roots 1" or larger
442	12103 Sela	14" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
443	12103 Sela	6" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
444	12103 Sela	6" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
445	12103 Sela	3" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
446	12103 Sela	18" Pine	Protected	Private tree	Fence, Demo-form-pour walk without damage to roots 1" or larger
447	12103 Sela	21" Crepe Myrtle	Protected	Remove for sidewalk	Remove tree, 21" replacement/mitigation required
448	12103 Sela	2" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
449	7815 Beech Cove	23" Live Oak	Protected	Private tree, Severely over pruned	Fence, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
450	7611 Beech Cove	5" Tallow	Not protected	Private tree	Fence, Clearance prune, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
451	7611 Beech Cove	1" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
452	7611 Beech Cove	1" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
453	7611 Beech Cove	10" Lacebark Elm	Not protected		Fence, Clearance prune, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
454	7607 Beech Cove	16" Crepe Myrtle	Not protected	Private tree	Clearance prune

NOTE:

1. THIS TREE PROTECTION PLAN WAS DEVELOPED WITH INFORMATION PROVIDED BY DESIGN ENGINEER IN DRAWINGS DATED JULY 2026. THE PLAN CONSIDERS ALL FITTINGS, VERTICAL OFFSETS AND AREAS OF NECESSARY EXCAVATION. CHANGES MADE TO DESIGN MAY COMPROMISE THE TREE PROTECTION PLAN. REFER SPECIFICATIONS 01562 AND 02915.
2. CN KOEHL URBAN FORESTRY, INC. HAS NOT BEEN CONTRACTED TO COMPLETE ANY TREE RISK ASSESSMENTS ON THIS PROJECT–THIS TPP INCLUDES PROTECTION MEASURES FOR SPECIES OF TREES PROTECTED BY APPLICABLE ORDINANCE ONLY. CN KOEHL URBAN FORESTRY, INC. DOES NOT GUARANTEE CONDITION OR STRUCTURAL INTEGRITY OF ANY TREE LOCATED ON OR ADJACENT TO THIS PROJECT.
3. IN AREAS WHERE INDIVIDUAL TREES HAVE NOT BEEN TIED IN BY SURVEY, APPROXIMATE LOCATION IS INDICATED ON TPP WITH A DOT AND TREE NUMBER. ACCURACY OF REPRESENTED LOCATION IS NOT GUARANTEED BY CN KOEHL URBAN FORESTRY, INC.
4. THE CONTRACTOR'S ARBORIST WILL MARK LOCATIONS OF TREES TO BE PLANTED AND OBTAIN APPROVAL BY CITY ENGINEER AND CITY FORESTER BEFORE PURCHASING OR EXCAVATING PLANTING HOLE OF EACH TREE.

40 0 40

SCALE: 1"=40'

TREE PRESERVATION PLAN LEGEND

- 1 — TREE NUMBER/LOCATION
- (1) — TREE TO BE REMOVED
- –X–X– — TREE PROTECTION FENCE
- ROOT PRUNING TRENCH
- SIDEWALK ON GRADE
- CHECKERPLATE SECTION
- OCC — ZERO CUTBACK CURB

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SURVEYED BY: Kuo&Associates
FB NO. P–

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

PAVING AND DRAINAGE IMPROVEMENTS IN ALIEF FOREST SOUTH AREA

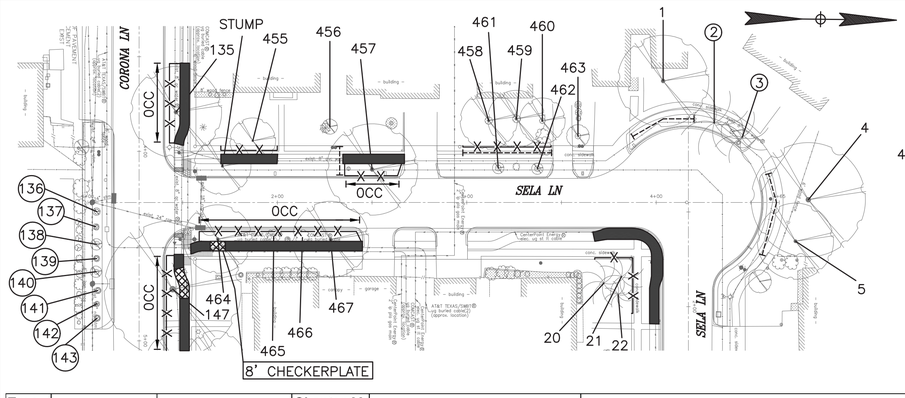
TREE PROTECTION PLAN

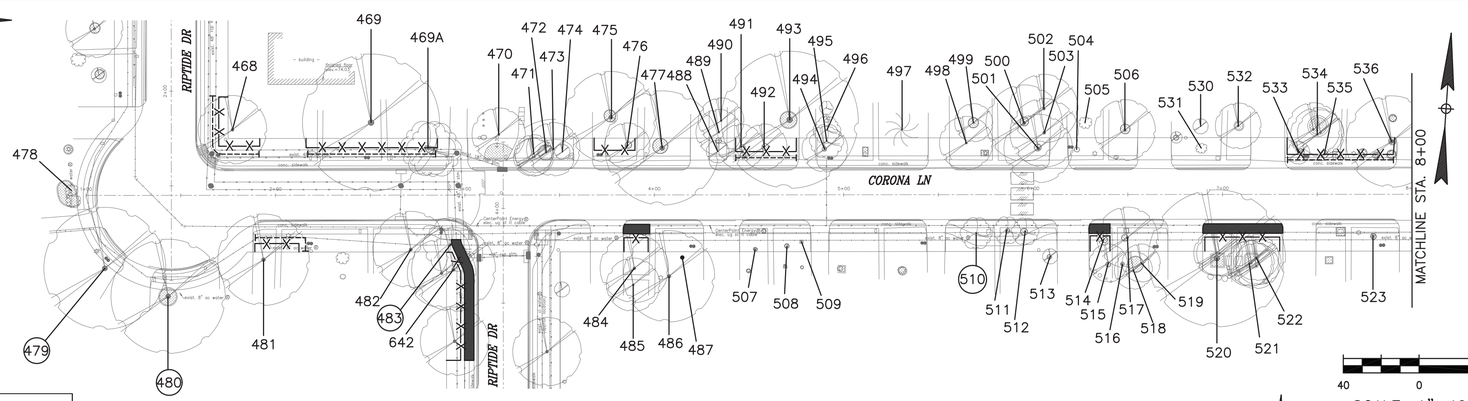
SHEET 7 OF 25

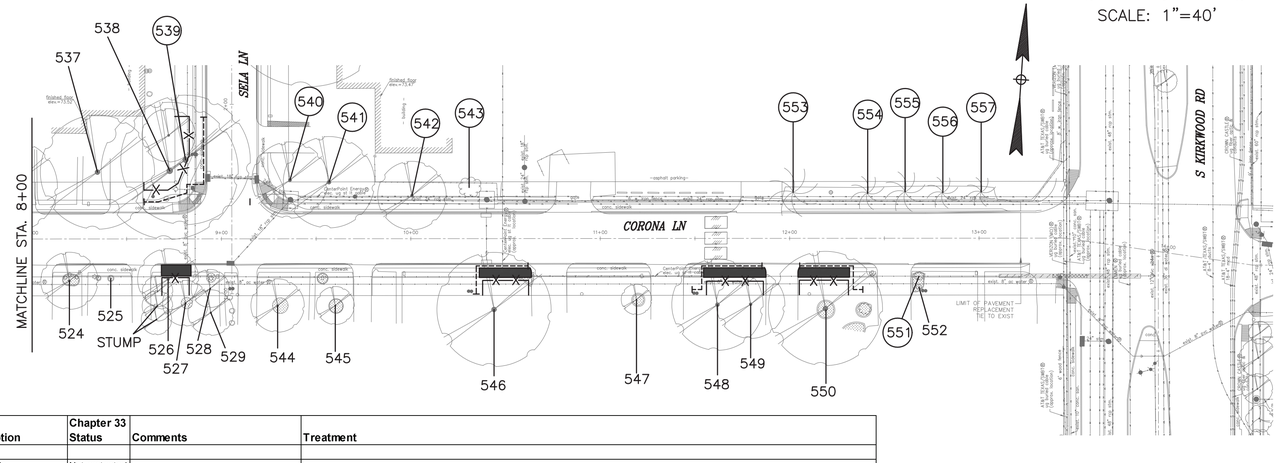
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N–210015–0001–3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 351 OF 369	

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Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees on Sela Lane					
455	12246 Sela	14" Magnolia	Protected	Private tree, 40% dieback	Fence, Demo-form-pour walk without damage to roots 1" or larger, Bore waterline
456	12246 Sela	10" Sugarberry	Protected	Private tree, Not impacted	
457	12242 Sela	20" Arizona Ash	Protected	Clearance prune	Fence, Clearance prune, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger, Root prune for tap and lead
458	12238 Sela	20" Mulberry	Protected	Private tree, Topped, Trunk decay, Not impacted	Fence, Root prune for sidewalk
459	12238 Sela	18" Live Oak	Protected	Private tree	Fence, Root prune for sidewalk
460	12238 Sela	19" Live Oak	Protected	Private tree	Fence, Root prune for sidewalk
461	12238 Sela	2" Juniper	Not protected		
462	12238 Sela	2" Juniper	Not protected		
463	12238 Sela	4" Crepe Myrtle	Not protected	Private tree, Topped	
464	12222 Corona	21" Live Oak	Protected		Fence, Clearance prune, 8' Checkerplate, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger, Remove fire hydrant bonnet and remove stem to 12" below grade-abandon stem and tee in place
465	12222 Corona	5" Arborvitae	Not protected		Clearance prune
466	12222 Corona	5" Arborvitae	Not protected		Clearance prune
467	12222 Corona	21" Live Oak	Protected		Fence, Clearance prune, 12' Checkerplate, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger
Trees on Corona Lane					
468	12042 Corona	17" Pecan	Protected	Private tree, 30% dieback	Fence, Root prune for sidewalk, Clearance prune
469	12038 Corona	32" Green Ash	Protected	Private tree	Fence, Root prune for sidewalk, Clearance prune
469A	12038 Corona	9" Crepe Myrtle	Not protected	Private tree, Topped	Fence, Root prune for sidewalk, Clearance prune
470	12024 Corona	12" Little Gem Magnolia	Protected	Private tree, 30% dieback	Clearance prune
471	12024 Corona	6" Yucca	Not protected		Clearance prune
472	12024 Corona	5' Palm	Not protected		Clearance prune
473	12024 Corona	25' Palm	Not protected		
474	12024 Corona	5' Palm	Not protected		Clearance prune
475	12030 Corona	25' Palm	Not protected	Private tree	Fence
476	12030 Corona	8" Arborvitae	Not protected		Fence, Clearance prune
477	12030 Corona	23" Live Oak	Protected	Remove for sidewalk	Remove tree, 23" replacement/mitigation required
478	7514 Riptide	5" Oleander	Not protected	Private tree, Not impacted	
479	7618. Riptide	23" Tallow	Protected	Private tree, Remove for sidewalk	Remove tree, No replacement/mitigation required
480	12047 Corona	31" Water Oak	Protected	Private tree, Remove for sidewalk	Remove tree, 31" replacement/mitigation required
481	12043 Corona	22" Live Oak	Protected	Private tree, Thin	Fence, Root prune for fire hydrant, Clearance prune
482	12039 Corona	17" Bradford Pear	Not protected	Fire blight	
483	12039 Corona	8" Crepe Mrytle	Not protected	Remove tree for sidewalk	Remove tree, No replacement/mitigation required
484	12031 Corona	21" Green Ash	Protected	Private tree	Fence, Clearance prune, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
485	12031 Corona	4' Sago	Not protected	Private tree	
486	12031 Corona	22" Pine	Protected	Private tree, Not impacted	
487	12031 Corona	2" Water Oak	Protected	Private tree, Not impacted	
488	12025 Corona	6" Crepe Myrtle	Not protected	Topped	Clearance prune
489	12025 Corona	5' Sago	Not protected	Private tree	
490	12025 Corona	4" Crepe Myrtle	Not protected	Private tree, Topped	
491	12025 Corona	3' Sago	Not protected		
492	12025 Corona	3' Sago	Not protected		
493	12025 Corona	35" Live Oak	Protected		Fence, Root prune for sidewalk, Clearance prune
494	12025 Corona	2' Sago	Not protected		Clearance prune
495	12025 Corona	7" Crepe Myrtle	Not protected	Topped	Clearance prune
496	12025 Corona	4" Crepe Myrtle	Not protected	Private tree, Topped	
497	12022 Corona	3' Sago	Not protected	Private tree	
498	12018 Corona	6' Sago	Not protected	Leaning	
499	12018 Corona	7" Bradford Pear	Protected	Private tree	
500	12018 Corona	8' Sago	Not protected	Private tree	
501	12018 Corona	6' Sago	Not protected		Clearance prune
502	12018 Corona	4' Palm	Not protected	Private tree	
503	12018 Corona	4' Palm	Not protected	Private tree	
504	12014 Corona	3" Juniper	Not protected		
505	12014 Corona	4' Sago	Not protected	Private tree	
506	12014 Corona	17" Bradford Pear	Protected	Private tree, Fire blight	Clearance prune
507	12027 Corona	2" Crepe Myrtle	Not protected		
508	12027 Corona	2" Crepe Myrtle	Not protected		

Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees on Corona Lane					
509	12027 Corona	1" Photinia	Not protected		
510	12019 Corona	3" Crepe Myrtle	Not protected	Topped, Remove tree for fire hydrant	Remove tree, No replacement/mitigation required
511	12019 Corona	3" Crepe Myrtle	Not protected	Topped	
512	12019 Corona	3" Crepe Myrtle	Not protected	Topped	
513	12015 Corona	6" Little Gem Magnolia	Not protected	Private tree	
514	12015 Corona	4" Live Oak	Protected		Fence, Clearance prune, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
515	12015 Corona	7" Italian Cypress	Not protected	Private tree	
516	12015 Corona	2" Italian Cypress	Not protected	Private tree	
517	12015 Corona	6' Sago	Not protected		
518	12015 Corona	8" Redbud	Not protected	Private tree, Not impacted	
519	12015 Corona	9" Crepe Myrtle	Not protected	Private tree, Topped	
520	12011 Corona	23" Arizona Ash	Not protected	Private tree, 50% dieback	Fence, Clearance prune, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
521	12011 Corona	13" Arizona Ash	Not protected		Fence, Clearance prune, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
522	12011 Corona	16" Arizona Ash	Not protected		Fence, Clearance prune, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
523	12007 Corona	4" Crepe Myrtle	Not protected	Topped	
524	12003 Corona	17" Arizona Ash	Not protected	Topped	Clearance prune
525	12003 Corona	2" Crepe Myrtle	Not protected	Topped	
526	11931 Corona	15" Chinaberry	Not protected		Clearance prune
527	11931 Corona	14" Magnolia	Not protected	Private tree	Fence, Clearance prune, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
528	11931 Corona	10" Crepe Myrtle	Not protected		
529	11931 Corona	9" Crepe Myrtle	Not protected	Private tree	
530	12010 Corona	5" Little Gem Magnolia	Not protected	Private tree, Not impacted	
531	12010 Corona	3" Agave	Not protected		Clearance prune
532	12010 Corona	12" Little Gem Magnolia	Not protected	Private tree, 30% dieback, Not impacted	
533	12010 Corona	2" Crepe Myrtle	Not protected		
534	12006 Corona	18" Arizona Ash	Not protected	Private tree	Fence, Root prune for sidewalk, Clearance prune
535	12006 Corona	2" Crepe Myrtle	Not protected		Clearance prune
536	12006 Corona	22" Arizona Ash	Protected		Fence, Root prune for sidewalk, Clearance prune
537	12002 Corona	33" Tallow	Protected	Private tree	Clearance prune
538	12002 Corona	17" Pecan	Protected	Private tree, Multitrunked	Fence, Root prune for sidewalk and fire hydrant, Clearance prune
539	12002 Corona	25" Crepe Myrtle	Protected	Remove for sidewalk	Remove tree, 25" replacement/mitigation required
540	12012 Sela	21" Pecan	Protected	Remove for storm	Remove tree, 21" replacement/mitigation required
541	12012 Sela	22" Pecan	Protected	Remove for storm	Remove tree, 22" replacement/mitigation required
542	12012 Sela	18" Pine	Protected	Remove for storm	Remove tree, 18" replacement/mitigation required
543	12012 Sela	7" Crepe Myrtle	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
544	11927 Corona	14" Live Oak	Protected	Private tree, Hedged, Not impacted	
545	11927 Corona	12" Live Oak	Protected	Private tree, Hedged, Not impacted	
546	11913 Corona	27" Live Oak	Protected	Private tree	Fence, Root prune for tap & lead and street, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
547	11915 Corona	8" Magnolia	Protected	Private tree, Not impacted	
548	11911 Corona	23" Sweetgum	Protected	Private tree	Fence, Root prune for tap & lead and street, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
549	11911 Corona	21" Sweetgum	Protected	Private tree, 60% dieback	Fence, Root prune for street, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
550	11907 Corona	24" Pine	Protected	Private tree	Fence, Root prune for street, Clearance prune, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
551	11907 Corona	1" Rose	Protected	Remove for storm	Remove tree, No replacement/mitigation required
552	11907 Corona	2" Crepe Myrtle	Not protected	Topped	
553	7602 S Kirkwood	21" Pine	Protected	Remove for storm	Remove tree, 21" replacement/mitigation required
554	7602 S Kirkwood	14" Pine	Protected	Remove for storm	Remove tree, 14" replacement/mitigation required
555	7602 S Kirkwood	20" Pine	Protected	Remove for storm	Remove tree, 20" replacement/mitigation required
556	7602 S Kirkwood	14" Pine	Protected	Remove for storm	Remove tree, 14" replacement/mitigation required
557	7602 S Kirkwood	16" Pine	Protected	Remove for storm	Remove tree, 16" replacement/mitigation required

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SURVEYED BY: Kuo&Associates
FB NO. P–

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

PAVING AND DRAINAGE IMPROVEMENTS IN ALIEF FOREST SOUTH AREA

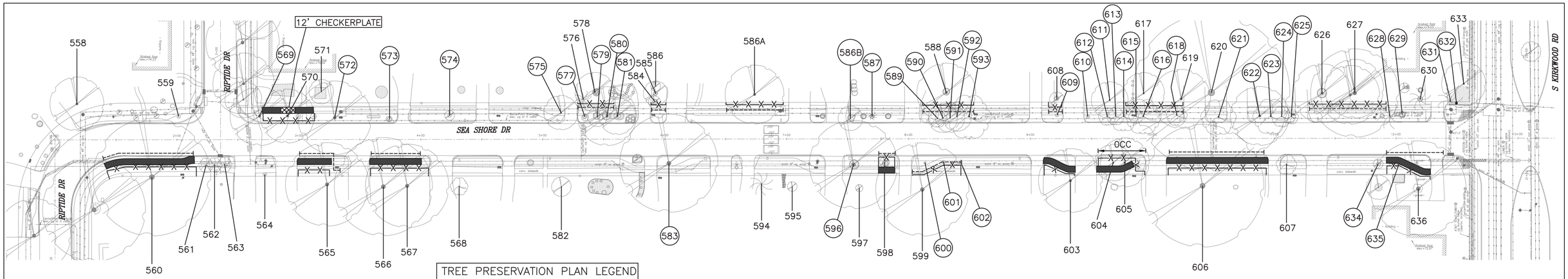
TREE PROTECTION PLAN

SHEET 8 OF 25

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 352 OF 369	

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TREE PRESERVATION PLAN LEGEND

- 1 — TREE NUMBER/LOCATION
- (1) — TREE TO BE REMOVED
- TREE PROTECTION FENCE
- ROOT PRUNING TRENCH
- SIDEWALK ON GRADE
- CHECKERPLATE SECTION
- 0CC — ZERO CUTBACK CURB

Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees on Sea Shore Drive					
558	12033 Sea Shore	19" Little Gem Magnolia	Not protected	Private tree, Codominant	Clearance prune
559	12030 Sea Shore	1" Beauty Berry	Not protected		
560	12031 Sea Shore	45" Arizona Ash	Protected	Trunk decay, Houston Parks and Recreation department need to review	Fence, Root prune for street, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
561	12027 Sea Shore	8" Crepe Myrtle	Not protected		Clearance prune
562	12027 Sea Shore	8" Crepe Myrtle	Not protected		Clearance prune
563	12027 Sea Shore	8" Crepe Myrtle	Not protected		Clearance prune
564	12023 Sea Shore	5" Ligustrum	Protected		
565	12023 Sea Shore	27" Water Oak	Protected	Private tree	Fence, Root prune for tap & lead and street, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
566	12019 Sea Shore	37" Arizona Ash	Protected	Private tree	Fence, Root prune for street, Clearance prune, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
567	12019 Sea Shore	26" Arizona Ash	Protected	Private tree	Fence, Clearance prune, Root prune, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
568	12015 Sea Shore	10" Crepe Myrtle	Not protected	Private tree, Topped, Not impacted	
569	12022 Sea Shore	19" Live Oak	Protected	Remove for ADA compliance	Remove tree, 19" replacement/mitigation required
570	12022 Sea Shore	18" Live Oak	Protected		Fence, 12' Checkerplate, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger
571	12022 Sea Shore	12" Chinese Pistache	Protected	Private tree, 60% dieback, Not impacted	
572	12022 Sea Shore	25" Live Oak	Protected	Remove for storm	Remove tree, 25" replacement/mitigation required
573	12018 Sea Shore	3" Oleander	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
574	12014 Sea Shore	6" Live Oak	Protected	Remove for storm	Remove tree, 6" replacement/mitigation required
575	12010 Sea Shore	13" Pecan	Protected	Remove for storm	Remove tree, 13" replacement/mitigation required
576	12006 Sea Shore	4' Sago	Not protected	Private tree, Not impacted	
577	12006 Sea Shore	6" Eucalyptus	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
578	12006 Sea Shore	17" Pine	Protected	Private tree	Fence, Root prune for storm
579	12006 Sea Shore	3' Palm	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
580	12006 Sea Shore	40' Palm	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
581	12006 Sea Shore	14" Bur Oak	Protected	Remove for storm	Remove tree, 14" replacement/mitigation required
582	12011 Sea Shore	2" Bur Oak	Protected	Private tree	
583	12003 Sea Shore	28" Live Oak	Protected	Remove for sidewalk	Remove tree, 28" replacement/mitigation required
584	12003 Sea Shore	4" Magnolia	Protected	Private tree	Fence, Root prune for storm, Clearance prune
585	12003 Sea Shore	2' Yucca	Not protected	Private tree	
586	12003 Sea Shore	3" Pecan	Protected	Private tree	Fence, Root prune for storm, Clearance prune
586A	11934 Sea Shore	26" Live Oak	Protected	Private tree	Fence, Root prune for storm, Clearance prune
586B	11930 Sea Shore	14" Arizona Ash	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
587	11930 Sea Shore	3' Sago	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
588	11926 Sea Shore	19" Pecan	Protected	Private tree	Fence, Root prune for storm, Clearance prune
589	11926 Sea Shore	5" Crepe Myrtle	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
590	11926 Sea Shore	3' Sago	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
591	11926 Sea Shore	3' Sago	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
592	11926 Sea Shore	3' Sago	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
593	11926 Sea Shore	5" Crepe Myrtle	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
594	11935 Sea Shore	20' Palm	Not protected	Private tree	
595	11935 Sea Shore	9" Live Oak	Protected	Private tree, Not impacted	

Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees on Sea Shore Drive					
596	11931 Sea Shore	26" Arizona Ash	Protected	90% dieback, Remove for sidewalk	Remove tree, No replacement/mitigation required
597	11931 Sea Shore	4" Live Oak	Protected	Private tree	
598	11931 Sea Shore	5" Water Oak	Protected		Fence, Root prune for street, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger, Clearance prune
599	11927 Sea Shore	28" Mulberry	Protected	Private tree	Fence, Root prune for sidewalk, Clearance prune
600	11927 Sea Shore	3" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
601	11927 Sea Shore	3" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
602	11927 Sea Shore	3" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
603	11918 Sea Shore	26" Water Oak	Protected	Private tree, Trunk cavity	Fence, Demo-form-pour walk without damage to roots 1" or larger, Bore waterline
604	11918 Sea Shore	11" Bald Cypress	Protected		Fence, Clearance prune, Bore waterline, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger
605	11918 Sea Shore	14" Bald Cypress	Protected		Fence, Clearance prune, Bore waterline, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger
606	11915 Sea Shore	43" Water Oak	Protected	Private tree	Fence, Root prune for street, Clearance prune, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
607	11911 Sea Shore	6" Crepe Myrtle	Not protected		Clearance prune
608	11918 Sea Shore	5" Live Oak	Protected	Private tree	Fence, Clearance prune, Root prune for storm
609	11918 Sea Shore	3" Chinaberry	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
610	11918 Sea Shore	3" Chinaberry	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
611	11918 Sea Shore	15" Live Oak	Protected	Remove for sidewalk	Remove tree, 15" replacement/mitigation required
612	11918 Sea Shore	5" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
613	11918 Sea Shore	5" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
614	11918 Sea Shore	5" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
615	11918 Sea Shore	6" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
616	11914 Sea Shore	10" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
617	11914 Sea Shore	17" Bur Oak	Protected	Private tree	Fence, Root prune for storm, Clearance prune
618	11914 Sea Shore	5" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
619	11914 Sea Shore	16" Bur Oak	Protected	Private tree	Fence, Root prune for storm, Clearance prune
620	11914 Sea Shore	47" Water Oak	Protected	Private tree, Dead, Not impacted	
621	11910 Sea Shore	13" Crepe Myrtle	Not protected	Topped, Remove for storm	Remove tree, No replacement/mitigation required
622	11910 Sea Shore	11" Juniper	Not protected	90% dieback, Remove for storm	Remove tree, No replacement/mitigation required
623	11910 Sea Shore	13" Crepe Myrtle	Not protected	80% dieback, Remove for storm	Remove tree, No replacement/mitigation required
624	11910 Sea Shore	9" Crepe Myrtle	Not protected	80% dieback, Remove for storm	Remove tree, No replacement/mitigation required
625	11910 Sea Shore	6" Crepe Myrtle	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
626	11906 Sea Shore	23" Pecan	Protected	Private tree	Fence, Root prune for storm, Clearance prune
627	11902 Sea Shore	47" Arizona Ash	Protected	Private tree, Multitrunked, Trunk decay	Fence, Root prune for storm, Clearance prune
628	11902 Sea Shore	10' Palm	Protected	Remove for storm	Remove tree, No replacement/mitigation required
629	11902 Sea Shore	4" Oleander	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
630	11902 Sea Shore	12' Palm	Not protected		
631	11902 Sea Shore	10' Palm	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
632	11902 Sea Shore	5" Chinaberry	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
633	11902 Sea Shore	17" Chinaberry	Not protected	Private tree, Topped	
634	11903 Sea Shore	2" Citrus	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
635	11903 Sea Shore	2" Little Gem Magnolia	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
636	11903 Sea Shore	35" Live Oak	Protected	Private tree	Fence, Clearance prune, Root prune for street, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger

40 0 40

SCALE: 1"=40'

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SURVEYED BY: Kuo&Associates
FB NO. P–

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

PAVING AND DRAINAGE IMPROVEMENTS IN ALIEF FOREST SOUTH AREA

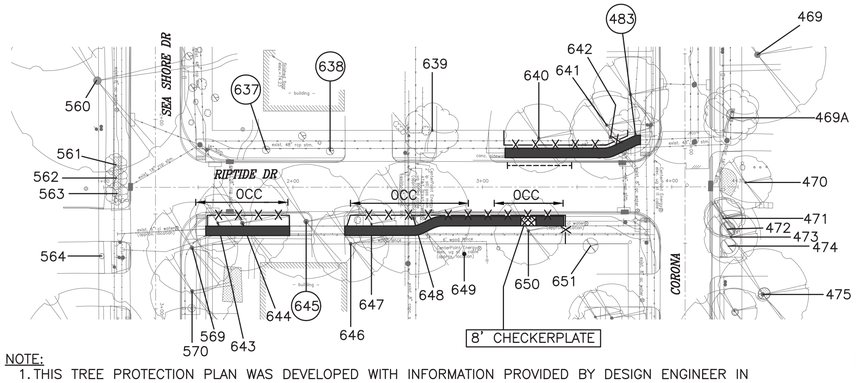
TREE PROTECTION PLAN

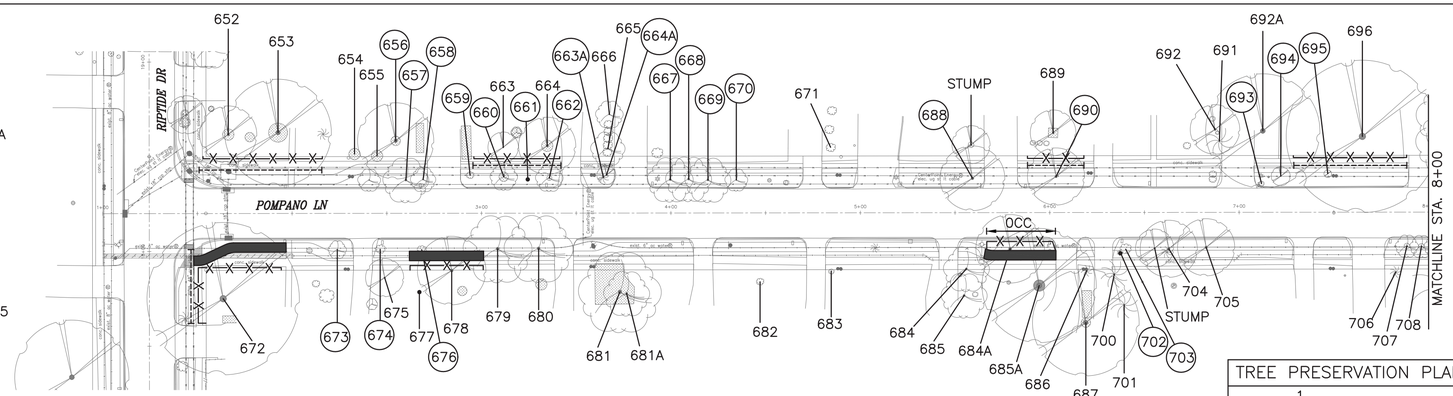
SHEET 9 OF 25

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 353 OF 369	

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NOTE:

1. THIS TREE PROTECTION PLAN WAS DEVELOPED WITH INFORMATION PROVIDED BY DESIGN ENGINEER IN DRAWINGS DATED JULY 2026. THE PLAN CONSIDERS ALL FITTINGS, VERTICAL OFFSETS AND AREAS OF NECESSARY EXCAVATION. CHANGES MADE TO DESIGN MAY COMPROMISE THE TREE PROTECTION PLAN. REFER SPECIFICATIONS 01562 AND 02915.
2. CN KOEHL URBAN FORESTRY, INC. HAS NOT BEEN CONTRACTED TO COMPLETE ANY TREE RISK ASSESSMENTS ON THIS PROJECT—THIS TPP INCLUDES PROTECTION MEASURES FOR SPECIES OF TREES PROTECTED BY APPLICABLE ORDINANCE ONLY. CN KOEHL URBAN FORESTRY, INC. DOES NOT GUARANTEE CONDITION OR STRUCTURAL INTEGRITY OF ANY TREE LOCATED ON OR ADJACENT TO THIS PROJECT.
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4. THE CONTRACTOR'S ARBORIST WILL MARK LOCATIONS OF TREES TO BE PLANTED AND OBTAIN APPROVAL BY CITY ENGINEER AND CITY FORESTER BEFORE PURCHASING OR EXCAVATING PLANTING HOLE OF EACH TREE.

Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees on Pompano Lane					
652	12030 Pompano	18" Shumard Oak	Protected	Private tree	Clearance prune, Root prune for storm, Fence
653	12030 Pompano	25" Magnolia	Protected	Private tree	Clearance prune, Root prune for storm, Fence
654	12026 Pompano	6" Chinaberry	Not protected	Private tree	
655	12026 Pompano	4" Corkscrew Willow	Not protected	Private tree	
656	12026 Pompano	3" Crepe Myrtle	Not protected	Remove tree for storm	Remove tree, No replacement/mitigation required
657	12026 Pompano	10" Crepe Myrtle	Not protected	Remove tree for storm	Remove tree, No replacement/mitigation required
658	12026 Pompano	7" Crepe Myrtle	Not protected	Remove tree for storm	Remove tree, No replacement/mitigation required
659	12026 Pompano	1" Fringe tree	Not protected	Remove tree for storm	Remove tree, No replacement/mitigation required
660	12022 Pompano	3" Crepe Myrtle	Not protected		Remove tree, No replacement/mitigation required
661	12022 Pompano	3" Crepe Myrtle	Not protected		Remove tree, No replacement/mitigation required
662	12022 Pompano	3" Crepe Myrtle	Not protected		Remove tree, No replacement/mitigation required
663	12022 Pompano	10" Green Ash	Protected	Private tree	Clearance prune, Root prune for storm, Fence
663A	12018 Pompano	3' Sago	Not protected	Remove tree for sidewalk	Remove tree, No replacement/mitigation required
664	12022 Pompano	14" Magnolia	Protected	Private tree, Topped	Clearance prune, Root prune for storm, Fence
664A	12018 Pompano	5" Loquat	Not protected	Remove tree for sidewalk	Remove tree, No replacement/mitigation required
665	12018 Pompano	9" Crepe Myrtle	Not protected	Private tree	Clearance prune

Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees on Sea Shore Drive					
637	12030 Sea Shore	2" Red Maple	Protected	Remove for sidewalk	Remove tree, 2" replacement/mitigation required
638	12030 Sea Shore	2" Red Maple	Protected	Remove for sidewalk	Remove tree, 2" replacement/mitigation required
639	12939 Corona	16" Crepe Myrtle	Not protected	Pruned for CPE	Clearance prune
640	12939 Corona	21" Tallow	Protected		Fence, Clearance prune, Root prune for street, Demo-form-pour walk without damage to roots 1" or larger
641	12939 Corona	7" Arborvitae	Not protected	Private tree	
642	12939 Corona	14" Pecan	Protected	Codominant	Fence, Clearance prune, Demo-form-pour walk without damage to roots 1" or larger
643	12022 Sea Shore	14" Live Oak	Protected		Fence, Clearance prune, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
644	12022 Sea Shore	19" Live Oak	Protected		Fence, Clearance prune, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
645	12022 Sea Shore	25" Live Oak	Protected	Remove for sidewalk and driveway	Remove tree, 25" replacement/mitigation required
646	12022 Sea Shore	19" Live Oak	Protected	Private tree, Pruned by CPE	Fence, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
647	12022 Sea Shore	13" Live Oak	Protected	Private tree	Fence, Clearance prune, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
648	12022 Sea Shore	26" Live Oak	Protected	Topped by CPE	Fence, Clearance prune, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
649	12031 Corona	28" Green Ash	Protected	Private tree, 30% dieback	Fence, Clearance prune, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
650	12031 Corona	18" Live Oak	Protected		Fence, Clearance prune, 8' Checkerplate, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
651	12031 Corona	5" Pine	Protected	Private tree, Not impacted	

Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees on Pompano Lane					
666	12018 Pompano	9" Crepe Myrtle	Not protected	Private tree	Clearance prune
667	12018 Pompano	10" Crepe Myrtle	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
668	12018 Pompano	10" Crepe Myrtle	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
669	12018 Pompano	10" Crepe Myrtle	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
670	12014 Pompano	3" Crepe Myrtle	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
671	12014 Pompano	5" Crepe Myrtle	Not protected	Private tree, Topped, Not impacted	
672	12031 Pompano	28" Live Oak	Protected	Private tree	Clearance prune, Fence, Root prune for storm, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
673	12031 Pompano	6" Crepe Myrtle	Not protected	Remove tree for sidewalk	Remove tree, No replacement/mitigation required
674	12027 Pompano	6" Crepe Myrtle	Not protected	Remove tree for sidewalk	Remove tree, No replacement/mitigation required
675	12027 Pompano	7" Yaupon	Not protected	Private tree	
676	12027 Pompano	2" Water Oak	Protected	Remove for sidewalk	Remove tree, Consider 2" replacement/mitigation.
677	12027 Pompano	12" Live Oak	Protected	Private tree	Fence, Demo-form-pour walk without damage to roots 1" or larger, Bore waterline
678	12027 Pompano	16" Pecan	Protected	Private tree, 50% dieback, Storm damage	Fence, Demo-form-pour walk without damage to roots 1" or larger, Bore waterline
679	12023 Pompano	11" Crepe Myrtle	Not protected		
680	12023 Pompano	11" Crepe Myrtle	Not protected		
681	12019 Pompano	29" Crepe Myrtle	Protected	Private tree	
681A	12019 Pompano	17" Crepe Myrtle	Not protected	Private tree	
682	12015 Pompano	1" Magnolia	Not protected	Private tree	
683	12015 Pompano	3" Crepe Myrtle	Not protected	Private tree, Topped	
684	12007 Pompano	10" Crepe Myrtle	Not protected	Private tree, Topped	
684A	12007 Pompano	16" Water Oak	Protected		Clearance prune, Fence, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
685	12007 Pompano	10" Crepe Myrtle	Not protected	Private tree, Topped	
685A	12007 Pompano	24" Green Ash	Protected	Private tree	Clearance prune, Fence, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
686	12007 Pompano	5' Sago	Not protected		
687	12007 Pompano	22" Pecan	Protected	Private tree, 40% dieback, Private tree	
688	12006 Pompano	18" Live Oak	Protected	Remove tree for storm drain	Remove tree, 18" replacement/mitigation required
689	12006 Pompano	15" Live Oak	Protected	Private tree	Fence, Root prune for storm, Clearance prune
690	12006 Pompano	16" Live Oak	Protected	Remove tree for storm drain	Remove tree, 16" replacement/mitigation required
691	11934 Pompano	12" Tallow	Not protected	Private tree	
692	11934 Pompano	3' Palm	Not protected	Private tree	
692A	11934 Pompano	19" Tallow	Not protected	Private tree	
693	11934 Pompano	9" Crepe Myrtle	Not protected	Topped, Remove for road	Remove tree, No replacement/mitigation required
694	11934 Pompano	8" Pecan	Protected	Remove for sidewalk	Remove tree, 8" replacement/mitigation required
695	11934 Pompano	5" Sugarberry	Protected	Remove for sidewalk	Remove tree, 5" replacement/mitigation required
696	11930 Pompano	43" Live Oak	Protected	Private tree	Fence, Root prune for storm, Clearance prune
700	12003 Pompano	4' Sago	Not protected	Private tree	
701	12003 Pompano	4' Sago	Not protected	Private tree	
702	12003 Pompano	4" Oleander	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
703	12003 Pompano	2" Arizona Ash	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
704	12003 Pompano	16" Tallow	Not protected		Clearance prune
705	12003 Pompano	17" Arizona Ash	Not protected		Clearance prune
706	11931 Pompano	4' Sago	Not protected	Private tree	
707	11931 Pompano	5" Crepe Myrtle	Not protected		
708	11931 Pompano	5" Crepe Myrtle	Not protected		

TREE PRESERVATION PLAN LEGEND

- 1 — TREE NUMBER/LOCATION
- (1) — TREE TO BE REMOVED
- —X—X— TREE PROTECTION FENCE
- ROOT PRUNING TRENCH
- SIDEWALK ON GRADE
- CHECKERPLATE SECTION
- OCC — ZERO CUTBACK CURB

40 0 40

SCALE: 1"=40'

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SURVEYED BY: Kuo&Associates
FB NO. P–

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

PAVING AND DRAINAGE IMPROVEMENTS IN ALIEF FOREST SOUTH AREA

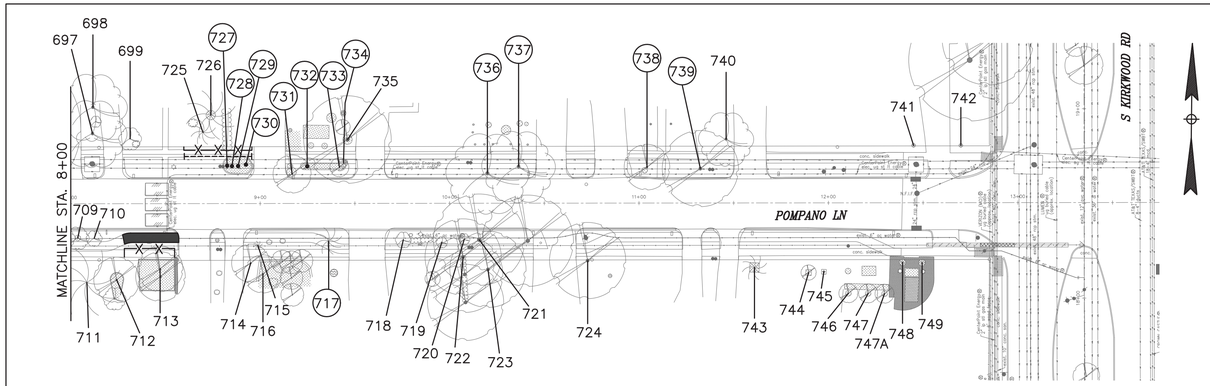
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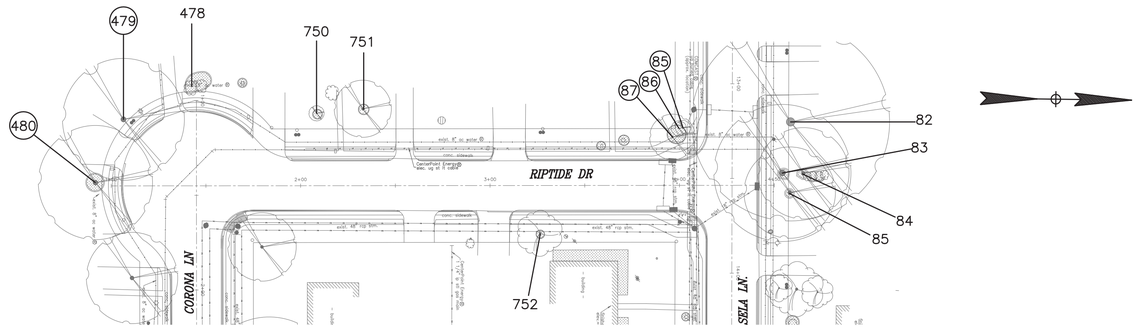
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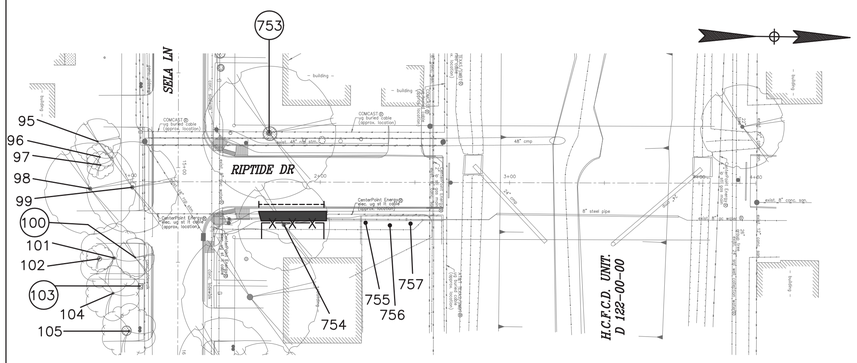
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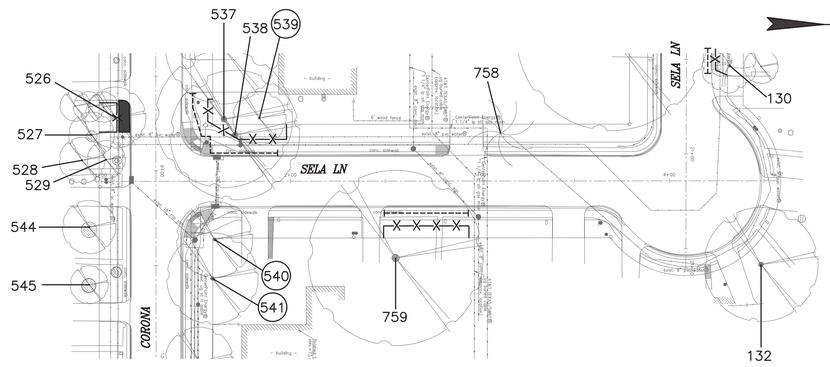
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TREE PRESERVATION PLAN LEGEND

- TREE NUMBER/LOCATION
- (1) TREE TO BE REMOVED
- TREE PROTECTION FENCE
- ROOT PRUNING TRENCH
- SIDEWALK ON GRADE
- CHECKERPLATE SECTION
- OCC ZERO CUTBACK CURB

Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees on Pompano Lane					
697	11930 Pompano	12" Crepe Myrtle	Not protected	Private tree	
698	11930 Pompano	10" Sugarberry	Protected	Private tree, Not impacted	
699	11926 Pompano	6" Crepe Myrtle	Not protected	Private tree	
709	11931 Pompano	5" Crepe Myrtle	Not protected		
710	11931 Pompano	5" Crepe Myrtle	Not protected		
711	11931 Pompano	24" Pine	Protected	Private tree	
712	11927 Pompano	16" Water Oak	Protected	Private tree	Fence, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
713	11927 Pompano	16" Water Oak	Protected	Private tree	Fence, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
714	11923 Pompano	2" Ligustrum	Protected	Topped	Clearance prune
715	11923 Pompano	3' Sago	Not protected		
716	11923 Pompano	10" Loquat	Not protected	Private tree	Clearance prune
717	11923 Pompano	2' Sago	Not protected	Remove tree for street	Remove tree, No replacement/mitigation required
718	11919 Pompano	6" Crepe Myrtle	Not protected		Clearance prune
719	11919 Pompano	6" Crepe Myrtle	Not protected		Clearance prune
720	11919 Pompano	2" Crepe Myrtle	Not protected		Fence, Root prune for storm, Clearance prune
721	11919 Pompano	40' Palm	Not protected		
722	11919 Pompano	6" Oleander	Not protected		Clearance prune
723	11919 Pompano	18" Pine	Protected	Private tree, Severely over pruned	
724	11919 Pompano	17" Arborvitae	Not protected	Private tree	Clearance prune
725	11926 Pompano	13" Pine	Protected	Private tree	Clearance prune
726	11926 Pompano	19" Pine	Protected	Private tree	Clearance prune
727	11922 Pompano	2" Crepe Myrtle	Not protected	Topped, Remove for storm	Remove tree, No replacement/mitigation required
728	11922 Pompano	8" Crepe Myrtle	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
729	11922 Pompano	4" Crepe Myrtle	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
730	11922 Pompano	3' Palm	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
731	11922 Pompano	14" Pecan	Protected	Remove for storm	Remove tree, 14" replacement/mitigation required
732	11922 Pompano	(5) 5" Crepe Myrtles	Not protected	Topped, Remove for storm	Remove tree, No replacement/mitigation required
733	11922 Pompano	7" Pecan	Protected	Remove for storm	Remove tree, 7" replacement/mitigation required
734	11922 Pompano	3' Sago	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
735	11918 Pompano	30' Palm	Not protected	Private tree	
736	11914 Pompano	25" Crepe Myrtle	Protected	Remove for storm	Remove tree, 25" replacement/mitigation required
737	11914 Pompano	22" Crepe Myrtle	Protected	Remove for storm	Remove tree, 22" replacement/mitigation required
738	11910 Pompano	14" Pecan	Protected	Remove for storm	Remove tree, 14" replacement/mitigation required
739	11910 Pompano	19" Pecan	Protected	Remove for storm	Remove tree, 19" replacement/mitigation required
740	11910 Pompano	15" Crepe Myrtle	Not protected	Private tree	Clearance prune
741	11902 Pompano	2" Crepe Myrtle	Not protected	Private tree	
742	11902 Pompano	2" Crepe Myrtle	Not protected	Private tree	
743	11907 Pompano	3' Sago	Not protected	Private tree	
744	11907 Pompano	9" Mulberry	Protected	Private tree, Not impacted	
745	11907 Pompano	2" Eve's Necklace	Protected	Private tree	
746	11903 Pompano	6" Peach	Not protected	Private tree	
747	11903 Pompano	6" Peach	Not protected	Private tree	
747A	11903 Pompano	6" Peach	Not protected	Private tree	
748	11903 Pompano	3' Sago	Not protected	Private tree	Clearance prune
749	11903 Pompano	3' Sago	Not protected	Private tree	Clearance prune

Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees on Riptide Drive					
750	7610 Ribtide	6" Magnolia	Protected	Private tree, 40% dieback, Not impacted	
751	7610 Ribtide	16" Bradford Pear	Protected	Private tree, Not impacted	
752	1206 Sela	10" Crepe Myrtle	Not protected	Topped	
753	12067 Sela	26" Sycamore	Protected	Topped, Trunk decay, Poor, Remove for storm	Remove tree, No replacement/mitigation required
754	7602 Riptide	17" Mulberry	Not protected	Topped	Fence, Clearance prune, Root prune for street, Demo-form-pour walk without damage to roots 1" or larger
755	7602 Riptide	12" Tallow	Not protected		Clearance prune
756	7602 Riptide	10" Box Elder	Not protected		Clearance prune
757	7602 Riptide	15" Sugarberry	Protected		Clearance prune
Trees on Sela Lane					
758	12027 Sela	12' Palm	Not protected		
759	12006 Sela	37" Live Oak	Protected	Private tree, Perennioporia on trunk	Fence, Root prune for sidewalk, Clearance prune

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40 0 40

SCALE: 1"=40'

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SURVEYED BY: Kuo&Associates
FB NO. P–

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

PAVING AND DRAINAGE IMPROVEMENTS IN ALIEF FOREST SOUTH AREA

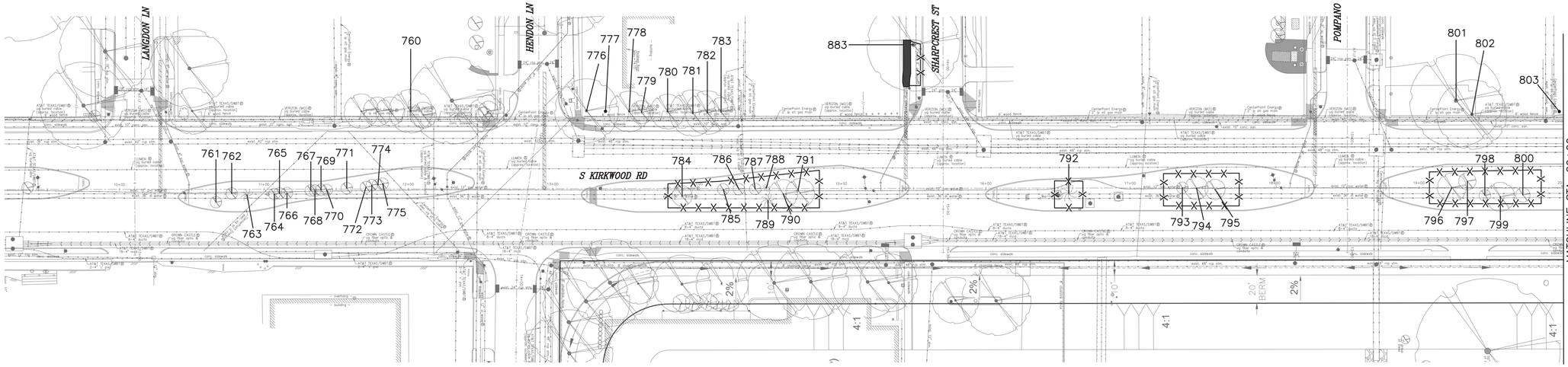
TREE PROTECTION PLAN

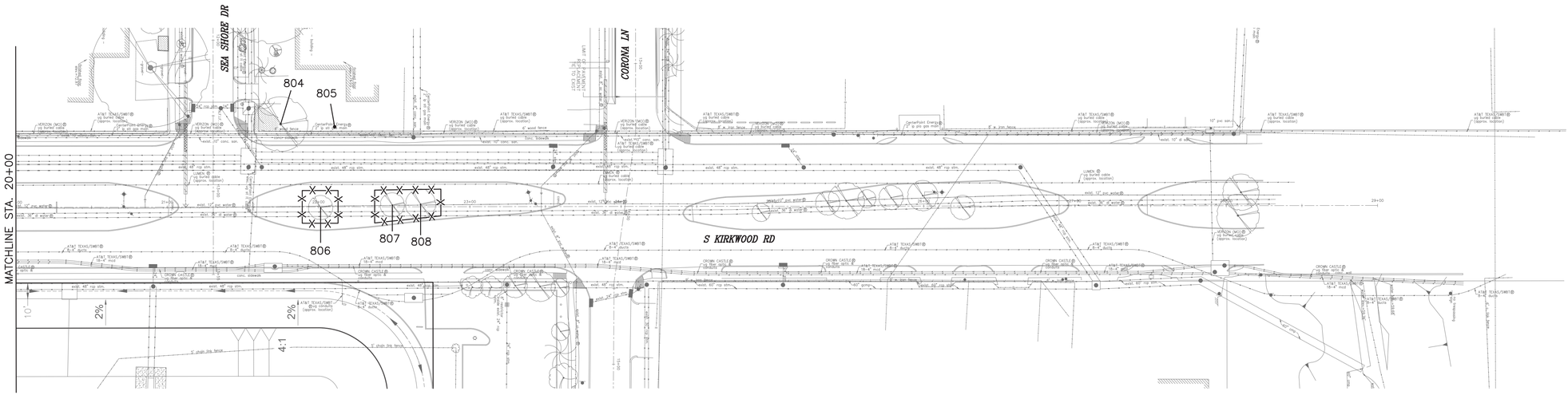
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Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees on Kirkwood Road					
760	11903 Hendon	10" Sugarberry	Protected	Private tree, Topped by CPE	Clearance prune
761	Median	5" Mexican Plum	Protected	Not impacted	
762	Median	6" Red Bud	Protected	Not impacted	
763	Median	9" Pine	Protected	Not impacted	
764	Median	5" Mexican Oak	Protected	Not impacted	
765	Median	5" Mexican Oak	Protected	Not impacted	
766	Median	5" Mexican Oak	Protected	Not impacted	
767	Median	5" Mexican Oak	Protected	Not impacted	
768	Median	5" Mexican Oak	Protected	Not impacted	
769	Median	5" Mexican Oak	Protected	Not impacted	
770	Median	5" Mexican Oak	Protected	Not impacted	
771	Median	6" Bur Oak	Protected	Not impacted	
772	Median	5" Mexican Oak	Protected	Not impacted	
773	Median	5" Mexican Oak	Protected	Not impacted	
774	Median	5" Mexican Oak	Protected	Not impacted	
775	Median	5" Mexican Oak	Protected	Not impacted	
776	11902 Hendon	15" Eastern Red Cedar	Protected	Private tree	Clearance prune
777	11902 Hendon	15" Eastern Red Cedar	Protected	Private tree	Clearance prune
778	11902 Hendon	15" Eastern Red Cedar	Protected	Private tree	Clearance prune
779	11902 Hendon	15" Eastern Red Cedar	Protected	Private tree	Clearance prune
780	11902 Hendon	15" Eastern Red Cedar	Protected	Private tree	Clearance prune
781	11902 Hendon	15" Eastern Red Cedar	Protected	Private tree	Clearance prune
782	11902 Hendon	15" Eastern Red Cedar	Protected	Private tree	Clearance prune
783	11902 Hendon	15" Eastern Red Cedar	Protected	Private tree	Clearance prune
784	Median	8" Bur Oak	Protected		Fence

Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees on Kirkwood Road					
785	Median	3" Shumard Oak	Protected		Fence
786	Median	6" Shumard Oak	Protected		Fence
787	Median	4" Shumard Oak	Protected		Fence
788	Median	6" Pine	Protected		Fence
789	Median	8" Pine	Protected		Fence
790	Median	10" Mexican Oak	Protected		Fence
791	Median	12" Mexican Oak	Protected		Fence
792	Median	9" Pine	Protected		Fence, Clearance prune
793	Median	6" Mexican Oak	Protected		Fence, Clearance prune
794	Median	11" Mexican Oak	Protected		Fence, Clearance prune
795	Median	10" Cedar Elm	Protected		Fence
796	Median	10" Cedar Elm	Protected		Fence
797	Median	7" Pine	Protected		Fence
798	Median	5" Red Maple	Protected		Fence
799	Median	12" Cedar Elm	Protected		Fence
800	Median	6" Bur Oak	Protected		Fence
801	11902 Pompano	22" Mulberry	Protected	Private tree, Topped, Not impacted	
802	11902 Pompano	18" Tallow	Not protected	Private tree, Topped by CPE,Trunk decay, Poor	
803	11902 Pompano	14" Sugarberry	Protected	Private tree, Pruned by CPE, Poor	
804	11902 Sea Shore	12" Chinaberry	Protected	Private tree	Clearance prune
805	11902 Sea Shore	14" Mulberry	Protected	Private tree, Pruned by CPE	Clearance prune
806	Median	9" Cedar Elm	Protected		Fence, Clearance prune
807	Median	10" Cedar Elm	Protected		Fence, Clearance prune
808	Median	11" Cedar Elm	Protected		Fence, Clearance prune

TREE PRESERVATION PLAN LEGEND

- 1 — TREE NUMBER/LOCATION
- (1) — TREE TO BE REMOVED
- TREE PROTECTION FENCE
- ROOT PRUNING TRENCH
- SIDEWALK ON GRADE
- CHECKERPLATE SECTION
- 0CC — ZERO CUTBACK CURB

NOTE:

1. THIS TREE PROTECTION PLAN WAS DEVELOPED WITH INFORMATION PROVIDED BY DESIGN ENGINEER IN DRAWINGS DATED JULY 2026. THE PLAN CONSIDERS ALL FITTINGS, VERTICAL OFFSETS AND AREAS OF NECESSARY EXCAVATION. CHANGES MADE TO DESIGN MAY COMPROMISE THE TREE PROTECTION PLAN. REFER SPECIFICATIONS 01562 AND 02915.
2. CN KOEHL URBAN FORESTRY, INC. HAS NOT BEEN CONTRACTED TO COMPLETE ANY TREE RISK ASSESSMENTS ON THIS PROJECT–THIS TPP INCLUDES PROTECTION MEASURES FOR SPECIES OF TREES PROTECTED BY APPLICABLE ORDINANCE ONLY. CN KOEHL URBAN FORESTRY, INC. DOES NOT GUARANTEE CONDITION OR STRUCTURAL INTEGRITY OF ANY TREE LOCATED ON OR ADJACENT TO THIS PROJECT.
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4. THE CONTRACTOR'S ARBORIST WILL MARK LOCATIONS OF TREES TO BE PLANTED AND OBTAIN APPROVAL BY CITY ENGINEER AND CITY FORESTER BEFORE PURCHASING OR EXCAVATING PLANTING HOLE OF EACH TREE.

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SURVEYED BY: Kuo&Associates
FB NO. P–

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

PAVING AND DRAINAGE IMPROVEMENTS IN ALIEF FOREST SOUTH AREA

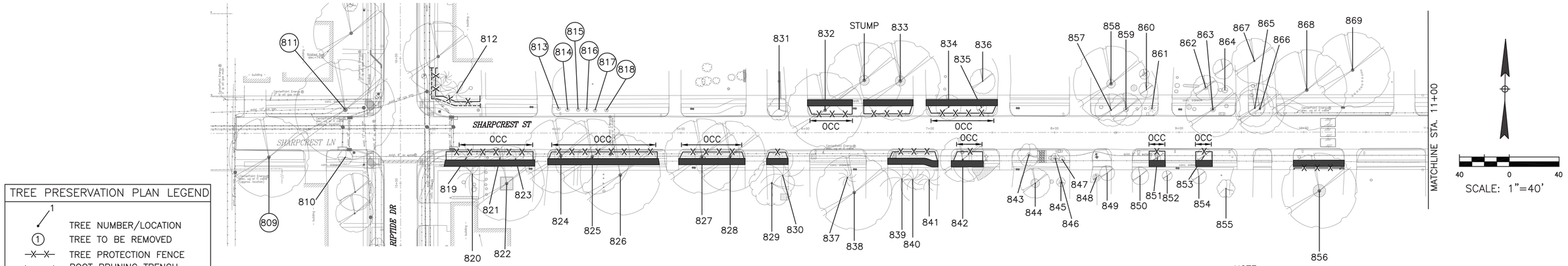
TREE PROTECTION PLAN

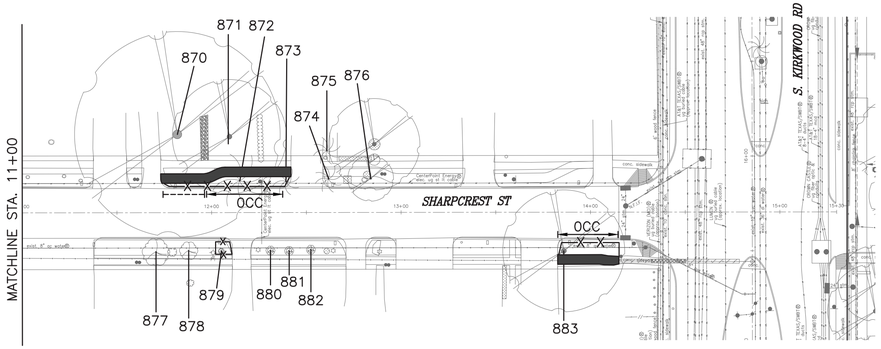
SHEET 12 OF 25

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 356 OF 369	

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NOTE:

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Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees on Sharpcrest Lane					
809	7902 Riptide	33" Water Oak	Protected	Sidewalk raised 10", Remove for ADA accommodation concerns	Remove tree, 33" replacement/mitigation required
810	7902 Riptide	6" Crepe Myrtle	Not protected		Clearance prune
811	7814 Riptide	34" Water Oak	Protected	Remove for ADA compliance	Remove tree, 34" replacement/mitigation required
812	12030 Sharpcrest	15" Pine	Protected	Private tree	Fence, Root prune for sidewalk
813	12030 Sharpcrest	3" Crepe Myrtle	Not protected	Topped, Remove for sidewalk	Remove tree, No replacement/mitigation required
814	12030 Sharpcrest	3" Crepe Myrtle	Not protected	Topped, Remove for sidewalk	Remove tree, No replacement/mitigation required
815	12030 Sharpcrest	3" Crepe Myrtle	Not protected	Topped, Remove for sidewalk	Remove tree, No replacement/mitigation required
816	12030 Sharpcrest	3" Crepe Myrtle	Not protected	Topped, Remove for sidewalk	Remove tree, No replacement/mitigation required
817	12030 Sharpcrest	3" Crepe Myrtle	Not protected	Topped, Remove for sidewalk	Remove tree, No replacement/mitigation required
818	12030 Sharpcrest	3" Crepe Myrtle	Not protected	Topped, Remove for sidewalk	Remove tree, No replacement/mitigation required
819	12031 Sharpcrest	18" Pine	Protected		Fence, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
820	12031 Sharpcrest	12' Palm	Not protected		Fence, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
821	12031 Sharpcrest	14" Pine	Protected		Fence, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
822	12031 Sharpcrest	28" Live Oak	Protected		Fence, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
823	12031 Sharpcrest	13" Pine	Protected		Fence, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger
824	12027 Sharpcrest	24" Live Oak	Protected		Fence, Clearance prune, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
825	12027 Sharpcrest	28" Live Oak	Protected		Fence, Clearance prune, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
826	12023 Sharpcrest	28" Green Ash	Protected		Fence, Clearance prune, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
827	12019 Sharpcrest	24" Live Oak	Protected		Fence, Clearance prune, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
828	12019 Sharpcrest	18" Live Oak	Protected		Fence, Clearance prune, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
829	12019 Sharpcrest	13" Crepe Myrtle	Not protected	Private tree	
830	12015 Sharpcrest	19" Pine	Protected	Private tree	Fence, Clearance prune, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
831	12014 Sharpcrest	10" Crepe Myrtle	Not protected		Clearance prune
832	12014 Sharpcrest	27" Water Oak	Protected		Fence, Clearance prune, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger
833	12010 Sharpcrest	39" Live Oak	Protected	Private tree	or larger
834	12006 Sharpcrest	11" Green Ash	Protected		Fence, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger
835	12006 Sharpcrest	6" Green Ash	Protected		Fence, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger
836	12006 Sharpcrest	10" Green Ash	Protected	Private tree	Fence, Demo-form-pour walk without damage to roots 1" or larger
837	12011 Sharpcrest	11" Pine	Protected	Private tree, Dead	
838	12011 Sharpcrest	23" Sweetgum	Protected	Private tree, Not impacted	
839	12011 Sharpcrest	22" Pine	Protected	Private tree	Fence, Clearance prune, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
840	12011 Sharpcrest	14" Pine	Protected	Private tree	Fence, Clearance prune, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
841	12011 Sharpcrest	15" Pine	Protected	Private tree, Dead	
842	12007 Sharpcrest	11" Green Ash	Protected		Fence, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
843	12003 Sharpcrest	8" Crepe Myrtle	Not protected		Clearance prune
844	12003 Sharpcrest	9" Eastern Red Cedar	Protected		Clearance prune
845	12003 Sharpcrest	4" Crepe Myrtle	Not protected		
846	12003 Sharpcrest	4" Crepe Myrtle	Not protected	Private tree	
847	12003 Sharpcrest	1" Crepe Myrtle	Not protected		
848	12003 Sharpcrest	1" Lacebark Elm	Protected	Private tree	
849	11935 Sharpcrest	9" Magnolia	Not protected	Private tree	Clearance prune
850	11935 Sharpcrest	12" Lacebark Elm	Not protected	Private tree	Clearance prune
851	11935 Sharpcrest	10" Pecan	Protected		Fence, Clearance prune, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
852	11935 Sharpcrest	4" Loquat	Not protected	Private tree	
853	11931 Sharpcrest	9" Lacebark Elm	Protected		Fence, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
854	11931 Sharpcrest	9" Lacebark Elm	Protected	Private tree	Fence, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
855	11931 Sharpcrest	11" Lacebark Elm	Not protected	Private tree	
856	11927 Sharpcrest	27" Live Oak	Protected	Private tree	Fence, Clearance prune, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
857	11934 Sharpcrest	11" Tallow	Not protected		
858	11934 Sharpcrest	21" Tallow	Not protected	Private tree	Clearance prune
859	11934 Sharpcrest	12" Raintree	Not protected		Clearance prune
860	11934 Sharpcrest	6" Little Gem Magnolia	Not protected	Private tree	
861	11934 Sharpcrest	4' Sago	Not protected		
862	11930 Sharpcrest	10" Bradford Pear	Not protected		
863	11930 Sharpcrest	15" Bradford Pear	Not protected	Private tree, 40% dieback	
864	11930 Sharpcrest	6" Bradford Pear	Not protected	Private tree	
865	11930 Sharpcrest	8" Arborvitae	Not protected		
866	11930 Sharpcrest	14" Arborvitae	Not protected		Clearance prune
867	11930 Sharpcrest	19" Live Oak	Protected	Private tree, Not impacted	
868	11925 Sharpcrest	23" Chinaberry	Protected	Private tree, Topped, Not impacted	
869	11922 Sharpcrest	27" Live Oak	Protected	Private tree, Not impacted	
870	11914 Sharpcrest	33" Live Oak	Protected	Private tree	Fence, Clearance prune, Root prune for street, Demo-form-pour walk without damage to roots 1" or larger
871	11914 Sharpcrest	19" American Elm	Protected	Private tree, Not impacted	
872	11914 Sharpcrest	18" Pine	Protected		Fence, Clearance prune, Zero Curb Cutback, Demo-form-pour walk without damage to roots 1" or larger
873	11906 Sharpcrest	5' Palm	Not protected		
874	11906 Sharpcrest	5' Palm	Not protected		
875	11906 Sharpcrest	5' Palm	Not protected		
876	11906 Sharpcrest	15" Tallow	Not protected		Clearance prune
877	11914 Sharpcrest	5" Crepe Myrtle	Not protected	Topped	
878	11914 Sharpcrest	2' Sago	Not protected		
879	11914 Sharpcrest	2" Yaupon	Not protected		
880	11911 Sharpcrest	6" Crepe Myrtle	Not protected	Topped	
881	11911 Sharpcrest	6" Crepe Myrtle	Not protected	Topped	
882	11911 Sharpcrest	6" Crepe Myrtle	Not protected	Topped	
Trees on Hendon Street					
883	Not available	28" Live Oak	Protected		Fence, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

PAVING AND DRAINAGE IMPROVEMENTS IN ALIEF FOREST SOUTH AREA

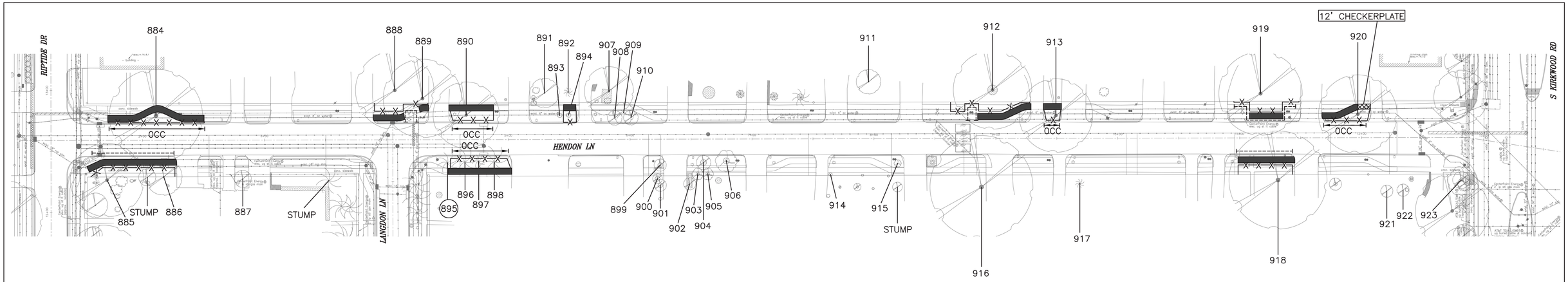
TREE PROTECTION PLAN

SHEET 13 OF 25

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 357 OF 369	

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Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees on Hendon Street					
884	12030 Hendon	35" Live Oak	Protected		Fence, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
885	7919 Riptide	20" Live Oak	Protected	Private tree	Fence, Clearance prune, Root prune for street, Demo-form-pour walk without damage to roots 1" or larger
886	7919 Riptide	14" Pecan	Protected	30% dieback	Fence, Clearance prune, Root prune for street, Demo-form-pour walk without damage to roots 1" or larger
887	12031 Langdon	7" Citrus	Not protected	Private tree, 30% dieback	
888	12018 Hendon	29' Live Oak	Protected	Private tree, 30% dieback	Fence, bore waterline, Demo-form-pour walk without damage to roots 1" or larger
889	12014 Hendon	28" Live Oak	Protected	Private tree	Fence, bore waterline, Root prune for fire hydrant, Clearance prune, Demo-form-pour walk without damage to roots 1" or larger
890	12014 Hendon	22" Pecan	Protected	20% dieback	Fence, Zero-curb-cutback, Bore waterline, Clearance prune, Demo-form-pour walk without damage to roots 1" or larger
891	12010 Hendon	9" Crepe Myrtle	Not protected	Private tree, Not impacted	
892	12010 Hendon	4' Sago	Not protected	Private tree	
893	12010 Hendon	3" Arizona Ash	Not protected		Clearance prune
894	12010 Hendon	3" Pecan	Protected		Fence, Zero-curb-cutback, Bore waterline, Clearance prune, Demo-form-pour walk without damage to roots 1" or larger
895	12030 Langdon	13" Pine	Protected	Remove tree for ADA slope concerns	Remove tree, 13" replacement/mitigation required
896	12030 Langdon	17" Pecan	Protected		Fence, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger, Clearance prune
897	12030 Langdon	9" Pine	Protected		Fence, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger
898	12030 Langdon	22" Pine	Protected		Fence, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger
899	12003 Hendon	6" Arizona Ash	Not protected		
900	12003 Hendon	3" Magnolia	Protected	Private tree	
901	12003 Hendon	8" Live Oak	Protected	Private tree	
902	12003 Hendon	9" Live Oak	Protected	Private tree	
903	12003 Hendon	7" Crepe Myrtle	Not protected		
904	12003 Hendon	6" Arizona Ash	Not protected	Girdled	Clearance prune
905	12003 Hendon	7" Crepe Myrtle	Not protected		
906	12003 Hendon	9" Crepe Myrtle	Not protected		
907	12006 Hendon	16" Eastern Red Cedar	Protected	Private tree	
908	12006 Hendon	8" Arborvitae	Not protected		Clearance prune
909	12006 Hendon	6" Crepe Myrtle	Not protected		Clearance prune
910	12006 Hendon	8" Arborvitae	Not protected		Clearance prune
911	11926 Hendon	11" Juniper	Not protected	Private tree, Not impacted	
912	11922 Hendon	29" Live Oak	Protected	Private tree	Fence, Bore waterline, Root prune for tap and lead, Demo-form-pour walk without damage to roots 1" or larger
913	11918 Hendon	25" Water Oak	Protected		Fence, Zero-curb-cutback, Bore waterline, Clearance prune, Demo-form-pour walk without damage to roots 1" or larger
914	11927 Hendon	2" Crepe Myrtle	Not protected		
915	11923 Hendon	3" Crepe Myrtle	Not protected		
916	11923 Hendon	39" Arizona Ash	Protected	Private tree, 60% dieback, Not impacted	
917	11919 Hendon	2' Sago	Not protected	Private tree	
918	11911 Hendon	32" Live Oak	Protected	Private tree	Fence, Root prune for street, Demo-form-pour walk without damage to roots 1" or larger
919	11910 Hendon	33" Arizona Ash	Protected	Private tree	Fence, Root prune for street & fire hydrant & tap and lead, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
920	11906 Hendon	27" Live Oak	Protected	Sidewalk raised 5"	Fence, Zero-curb-cutback, Bore waterline, Clearance prune, Demo-form-pour walk without damage to roots 1" or larger, 12' Checkerplate
921	11903 Hendon	4" Peach	Not protected	Private tree	
922	11903 Hendon	4" Peach	Not protected	Private tree	
923	11903 Hendon	14" Crepe Myrtle	Not protected	Private tree	Clearance prune

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TREE PRESERVATION PLAN LEGEND

- 1 — TREE NUMBER/LOCATION
- (1) — TREE TO BE REMOVED
- –X–X– — TREE PROTECTION FENCE
- ROOT PRUNING TRENCH
- SIDEWALK ON GRADE
- CHECKERPLATE SECTION
- OCC — ZERO CUTBACK CURB

40 0 40

SCALE: 1"=40'

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FB NO. P–

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

PAVING AND DRAINAGE IMPROVEMENTS IN ALIEF FOREST SOUTH AREA

TREE PROTECTION PLAN

SHEET 14 OF 25

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 358 OF 369	

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TREE PRESERVATION PLAN LEGEND

- TREE NUMBER/LOCATION
- TREE TO BE REMOVED
- TREE PROTECTION FENCE
- ROOT PRUNING TRENCH
- SIDEWALK ON GRADE
- CHECKERPLATE SECTION
- OCC — ZERO CUTBACK CURB

Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees on Langdon Lane					
950	12026 Langdon	29" Arizona Ash	Not protected	Private tree, Topped, 80% dieback	
951	12002 Langdon	26" Live Oak	Protected	Private tree	Fence, Root prune for sanitary lead
952	12002 Langdon	5" Crepe Myrtle	Not protected	Private tree	
953	11934 Langdon	41" Live Oak	Protected	Private tree	Fence, Bore waterline, Root prune for sanitary lead and tap & lead, Demo-form-pour walk without damage to roots 1" or larger
954	11934 Langdon	34" Live Oak	Protected	Private tree	Fence, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger, Root prune for sanitary lead
955	11934 Langdon	2' Sago	Not protected		
956	11934 Langdon	3' Sago	Not protected	Private tree	
957	11934 Langdon	2' Sago	Not protected		
958	11930 Langdon	5" Live Oak	Protected	Private tree	Clearance prune
959	11930 Langdon	3" Chinaberry	Not protected		
960	11930 Langdon	5" Peach	Not protected	Private tree	
961	11930 Langdon	5" Peach	Not protected		
962	11930 Langdon	2" Red Bud	Protected		Fence, Demo-form-pour walk without damage to roots 1" or larger
963	11930 Langdon	6" Live Oak	Not protected	Private tree	
964	11926 Langdon	11" Arborvitae	Not protected	Private tree	
965	11926 Langdon	20" Arizona Ash	Protected		Fence, Bore waterline, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger, Clearance prune
966	11926 Langdon	11" Crepe Myrtle	Not protected		Clearance prune
967	12003 Langdon	6" Arborvitae	Not protected		Clearance prune
968	12003 Langdon	6" Arborvitae	Not protected		Clearance prune
968A	12003 Langdon	6" Arborvitae	Not protected		Clearance prune
969	12003 Langdon	8" Live Oak	Not protected	Private tree	Clearance prune
970	12003 Langdon	23" Water Oak	Protected	Topped, 90% dieback	Clearance prune
971	12003 Langdon	24" Water Oak	Protected	Dead, Hypoxylon	
972	8002 Aqua	2' Sago	Not protected		
973	8002 Aqua	2' Sago	Not protected		
974	8002 Aqua	2' Sago	Not protected		
975	8002 Aqua	21" Mulberry	Protected		Fence, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger, Clearance prune
976	8002 Aqua	3' Sago	Not protected	Remove tree for fire hydrant	Remove tree, No replacement/mitigation required
977	8003 Aqua	5" Crepe Myrtle	Not protected		Clearance prune
978	8003 Aqua	5" Crepe Myrtle	Not protected		Clearance prune
979	11922 Langdon	9" Mimosa	Not protected	Private tree	Clearance prune
980	11922 Langdon	4' Sago	Not protected	Private tree	
981	11922 Langdon	8" Magnolia	Protected	Private tree	
982	11918 Langdon	2" Little Gem Magnolia	Not protected	Private tree	
983	11918 Langdon	2" Little Gem Magnolia	Not protected	Private tree	
984	11918 Langdon	2" Little Gem Magnolia	Not protected	Private tree	
985	11914 Langdon	12" Crepe Myrtle	Not protected		Clearance prune
986	11914 Langdon	8" Crepe Myrtle	Not protected		Clearance prune
987	11914 Langdon	8" Crepe Myrtle	Not protected		Clearance prune
988	11910 Langdon	22" Pine	Protected	Private tree	Fence, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger

Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees on Langdon Lane					
989	11910 Langdon	10" Raintree	Not protected	Private tree	
990	8003 Aqua	3" Crepe Myrtle	Not protected		Clearance prune
991	8003 Aqua	3" Crepe Myrtle	Not protected		Clearance prune
992	8002 Shiner	29" Sugarberry	Protected	Split trunk, Evaluate by HPARD	
993	8002 Shiner	10" Crepe Myrtle	Not protected		Clearance prune
994	8003 Shiner	19" Green Ash	Protected	Remove for ADA compliance	Remove tree, 19" replacement/mitigation required
995	8003 Shiner	22" Green Ash	Protected	Trunk cavity	Fence, 8' Checkerplate, Clearance prune, Demo-form-pour walk without damage to roots 1" or larger
996	8003 Shiner	22" Tallow	Protected	Private tree, Topped by CPE, Not impacted	
997	11906 Langdon	23" Magnolia	Protected	Private tree, 50% dieback	
998	11906 Langdon	8" Raintree	Not protected	Private tree	
999	11902 Langdon	22" Siberian Elm	Protected	Private tree, 80% dieback, Not impacted	
Trees on Aqua Lane					
1000	8006 Aqua	17" Pecan	Protected	Private tree, Not impacted	
1001	8006 Aqua	17" Live Oak	Protected	Private tree	Fence, Clearance prune, Root prune for water line
1002	8002 Aqua	23" Live Oak	Protected	Private tree	Fence, Clearance prune, Root prune for water line, Demo-form-pour walk without damage to roots 1" or larger
1003	8002 Aqua	21" Live Oak	Protected	Private tree	Fence, Root prune for water line
1004	8002 Aqua	19" Live Oak	Protected	Private tree	Fence, Root prune for sidewalk
1005	8006 Aqua	2" Holly	Protected	Private tree	
1006	8011 Aqua	9" Live Oak	Not protected	Private tree, Girdled by guy wire	Clearance prune
1007	8002 Aqua	6" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
Trees on Shiner Lane					
1008	8014 Shiner	3" Crepe Myrtle	Not protected	Private tree	
1009	8014 Shiner	4" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
1010	8014 Shiner	1" Peach	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
1011	8010 Shiner	12" Live Oak	Protected	Private tree	Fence, Clearance prune, Root prune for street, Demo-form-pour walk without damage to roots 1" or larger
1012	8010 Shiner	46" Arizona Aash	Protected	Private tree, Toped	Fence, Clearance prune, Root prune for street, Demo-form-pour walk without damage to roots 1" or larger
1013	8006 Shiner	25" Arizona Ash	Protected	Topped	Fence, Zero-curb-cutback, Clearance prune, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
1014	8002 Shiner	27" Arizona Ash	Protected	Hollow, Evaluate by HPARD	Fence, Bore waterline, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger
1015	8002 Shiner	13" Crepe Myrtle	Not protected		Clearance prune
1016	8002 Shiner	9" Crepe Myrtle	Not protected		
1017	8002 Shiner	9" Crepe Myrtle	Not protected		
1018	8002 Shiner	3" Oleander	Not protected		Clearance prune
1019	8002 Shiner	3" Oleander	Not protected		Clearance prune
1020	8002 Shiner	9" Crepe Myrtle	Not protected	Private tree	
1021	8002 Shiner	10" Bradford Pear	Not protected		Clearance prune
1022	8019 Shiner	16" Magnolia	Not protected	Private tree	Clearance prune
1023	8019 Shiner	8" Camphor	Not protected	Remove for waterline bend	Remove tree, No replacement/mitigation required
1024	8015 Shiner	3" Fig	Not protected	Private tree, Not impacted	
1025	8015 Shiner	23" Arizona Ash	Not protected	Private tree, Topped	Fence, Root prune for waterline, Clearance prune, Demo-form-pour walk without damage to roots 1" or larger
1026	8011 Shiner	27" Arizona Ash	Not protected	Private tree, Topped, 50% dieback	Fence, Clearance prune, Root prune for water line, Demo-form-pour walk without damage to roots 1" or larger
1027	8007 Shiner	11" Arizona Ash	Not protected		Clearance prune
1028	8007 Shiner	37" Live Oak	Protected	Private tree	Fence, Clearance prune, Root prune for street, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
1029	8003 Shiner	51" Live Oak	Protected	Private tree, Codominant	Fence, Clearance prune, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger, Root prune for street
1030	8003 Shiner	9" Green Ash	Protected		Fence, Clearance prune, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger, Root prune for street

Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees on Langdon Lane					
924	12031 Langdon	18" Pine	Protected	Private tree, Thin	Fence, Demo-form-pour walk without damage to roots 1" or larger
925	12031 Langdon	18" Pine	Protected	Private tree, Girdling root	Fence, Demo-form-pour walk without damage to roots 1" or larger
926	12031 Langdon	24" Pine	Protected	Private tree, Girdling root	Fence, Demo-form-pour walk without damage to roots 1" or larger
927	12031 Langdon	12" Magnolia	Protected	Private tree, Suppressed	
928	12027 Langdon	19" Live Oak	Protected	Private tree	Fence, Demo-form-pour walk without damage to roots 1" or larger, Root prune for sanitary lead
929	12023 Langdon	11" Magnolia	Protected	Private tree	Fence, Demo-form-pour walk without damage to roots 1" or larger, Root prune for sanitary lead
930	12023 Langdon	35" Live Oak	Protected	Private tree	Fence, Demo-form-pour walk without damage to roots 1" or larger, Root prune for sanitary lead
931	12019 Langdon	3" Crepe Myrtle	Not protected		
932	12019 Langdon	3" Crepe Myrtle	Not protected		
933	12019 Langdon	3" Crepe Myrtle	Not protected		
934	12019 Langdon	1' Sago	Not protected		
935	12030 Langdon	19" Pine	Protected	Remove tree for ADA slope concerns	Remove tree, 19" replacement/mitigation required
936	12030 Langdon	17" Pine	Protected		Fence, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger, Clearance prune
937	12030 Langdon	14" Pine	Protected		Fence, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger, Clearance prune
938	12026 Langdon	25" Pine	Protected	Private tree, Codominant, Not impacted	
939	12026 Langdon	5" Live Oak	Protected	Private tree, Not impacted	
940	12026 Langdon	32" Arizona Ash	Protected	Private tree, Topped, Poor, Not impacted	
941	12015 Langdon	2" Crepe Myrtle	Not protected		
942	12015 Langdon	6" Crepe Myrtle	Not protected	Topped	
943	12011 Langdon	47" Live Oak	Protected	Private tree	Fence, Root prune for street and sanitary lead, Demo-form-pour walk without damage to roots 1" or larger

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SCALE: 1"=40'

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SURVEYED BY: Kuo&Associates
FB NO. P–

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

PAVING AND DRAINAGE IMPROVEMENTS IN ALIEF FOREST SOUTH AREA

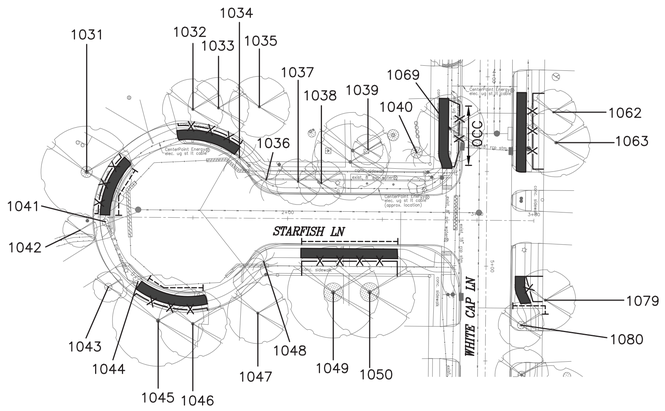
TREE PROTECTION PLAN

SHEET 15 OF 25

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 359 OF 369	

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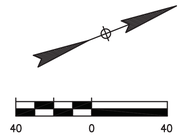
TREE PRESERVATION PLAN LEGEND

- 1 — TREE NUMBER/LOCATION
- (1) — TREE TO BE REMOVED
- —X—X— TREE PROTECTION FENCE
- ROOT PRUNING TRENCH
- SIDEWALK ON GRADE
- CHECKERPLATE SECTION
- OCC — ZERO CUTBACK CURB

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Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees on Starfish Lane					
1031	8110 Starfish	26" Live Oak	Protected	Private tree	Fence, Demo-form-pour walk without damage to roots 1" or larger, Root prune for street
1032	8106 Starfish	16" Pine	Not protected	Private tree	Fence, Demo-form-pour walk without damage to roots 1" or larger
1033	8106 Starfish	16" Pine	Not protected	Private tree	Fence, Demo-form-pour walk without damage to roots 1" or larger
1034	8106 Starfish	9' Palm	Not protected		
1035	8106 Starfish	15" Pine	Not protected	Private tree, Not impacted	
1036	8106 Starfish	9' Palm	Not protected		
1037	8102 Starfish	11" Arborvitae	Not protected		Clearance prune
1038	8102 Starfish	11" Arborvitae	Not protected		Clearance prune
1039	8102 Starfish	10" Live Oak	Not protected	Private tree, Not impacted	
1040	8102 Starfish	5' Sago	Not protected	Private tree, Not impacted	
1041	8111 Starfish	7" Arborvitae	Not protected	Private tree, Not impacted	
1042	8111 Starfish	2" Crepe Myrtle	Not protected	Topped	
1043	8111 Starfish	7" Arborvitae	Not protected	Private tree, Not impacted	
1044	8111 Starfish	4" Crepe Myrtle	Not protected	Topped	
1045	8107 Starfish	18" Pecan	Protected	Private tree	Fence, Clearance prune, Root prune for street, Demo-form-pour walk without damage to roots 1" or larger
1046	8107 Starfish	15" Pecan	Not protected	Private tree, 50% dieback	Fence, Demo-form-pour walk without damage to roots 1" or larger
1047	8107 Starfish	17" Pecan	Not protected	Private tree, Topped	
1048	8107 Starfish	1' Sago	Not protected		
1049	8103 Starfish	27" Live Oak	Protected	Private tree	Fence, Bore waterline, Root prune for street, Demo-form-pour walk without damage to roots 1" or larger
1050	8103 Starfish	26" Live Oak	Protected	Private tree, Lightening strike	Fence, Clearance prune, Bore waterline, Root prune for street, Demo-form-pour walk without damage to roots 1" or larger



SCALE: 1"=40'

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PAVING AND DRAINAGE IMPROVEMENTS IN ALIEF FOREST SOUTH AREA

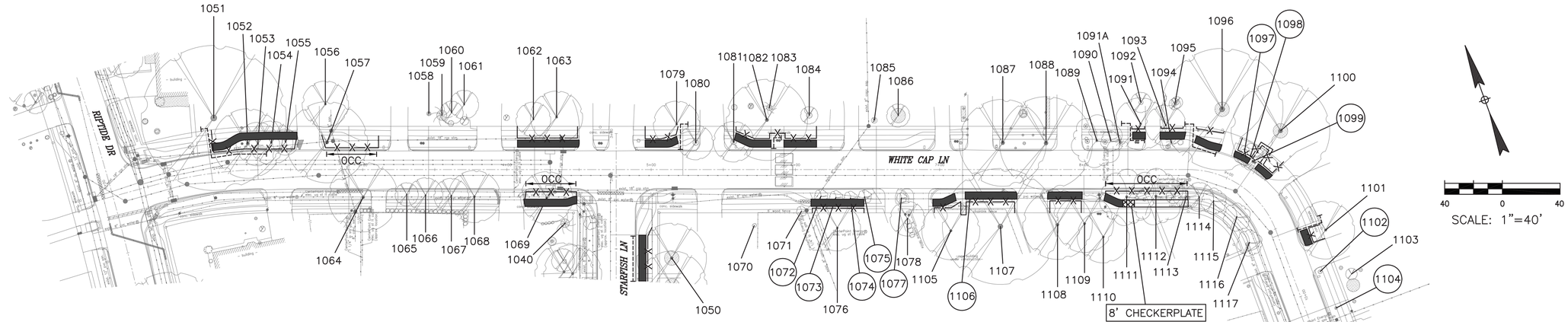
TREE PROTECTION PLAN

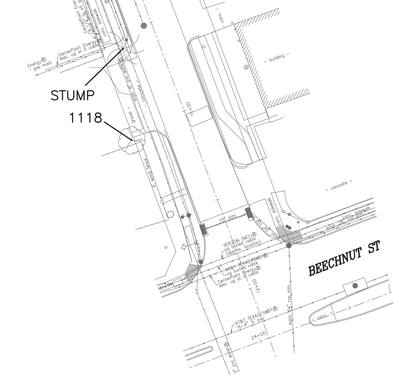
SHEET 16 OF 25

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 360 OF 369	

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TREE PRESERVATION PLAN LEGEND

- 1 — TREE NUMBER/LOCATION
- (1) — TREE TO BE REMOVED
- –X–X– — TREE PROTECTION FENCE
- ------ — ROOT PRUNING TRENCH
- ▬ — SIDEWALK ON GRADE
- ▩ — CHECKERPLATE SECTION
- ⊢OCC⊣ — ZERO CUTBACK CURB

Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees on White Cap Lane					
1051	12066 White Cap	49" Live Oak	Protected	Private tree	Fence, Demo-form-pour walk without damage to roots 1" or larger, Root prune for street and sanitary lead
1052	12062 White Cap	9" Arborvitae	Not protected		Clearance prune
1053	12062 White Cap	15" Tallow	Not protected		Clearance prune
1054	12062 White Cap	9" Arborvitae	Not protected		Clearance prune
1055	12062 White Cap	9" Arborvitae	Not protected		Clearance prune
1056	12062 White Cap	10" Persimmon	Not protected	Private tree	
1057	12062 White Cap	25" Tallow	Protected	Trunk decay	Fence, Zero-curb-cutback, Bore sanitary lead, Clearance prune,
1058	12054 White Cap	6" Peach	Not protected	Private tree	
1059	12054 White Cap	10' Sago	Not protected	Private tree	
1060	12054 White Cap	6" Peach	Not protected	Private tree	
1061	12054 White Cap	6" Peach	Not protected	Private tree	
1062	12050 White Cap	16" Magnolia	Protected	Private tree	Fence, Hand dig sanitary stack and bore lead from curb to stack, Demo-form-pour walk without damage to roots 1" or larger, Clearance prune
1063	12050 White Cap	21" Pecan	Protected	Private tree	Fence, Demo-form-pour walk without damage to roots 1" or larger, Clearance prune
1064	8102 Starfish	16" Chinaberry	Not protected		Clearance prune
1065	8102 Starfish	4" Crepe Myrtle	Not protected	Topped	
1066	8102 Starfish	4" Crepe Myrtle	Not protected	Topped	
1067	8102 Starfish	10" Crepe Myrtle	Not protected	Topped	
1068	8102 Starfish	10" Crepe Myrtle	Not protected	Topped	
1069	8102 Starfish	22" Green Ash	Protected	Topped	Fence, Zero-curb-cutback, Demo-form-pour walk without damage to roots 1" or larger, Bore waterline, Clearance prune
1070	8103 Starfish	1" Spirea	Not protected	Private tree	
1071	12035 White Cap	5" Crepe Myrtle	Not protected		Clearance prune
1072	12035 White Cap	10" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
1073	12035 White Cap	10" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
1074	12035 White Cap	10" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
1075	12035 White Cap	10" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
1076	12035 White Cap	16" Pecan	Protected	Private tree	Fence, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
1077	12035 White Cap	5" Crepe Myrtle	Not protected	Remove for driveway	Remove tree, No replacement/mitigation required
1078	12035 White Cap	13" Pecan	Not protected	Private tree, Hypoxylon, Poor	
1079	12046 White Cap	20" Bradford Pear	Protected	Private tree	Fence, Root prune for sanitary lead, Clearance prune, Demo-form-pour walk without damage to roots 1" or larger
1080	12042 White Cap	10" Arborvitae	Not protected		Clearance prune
1081	12042 White Cap	10" Arborvitae	Not protected		Clearance prune
1082	12042 White Cap	29" Live Oak	Protected	Private tree	Fence, Clearance prune, Hand dig sanitary lead, Root prune water lead, Demo-form-pour walk without damage to roots 1" or larger
1083	12038 White Cap	4' Sago	Not protected	Private tree	
1084	12038 White Cap	7" Bald Cypress	Not protected	Private tree, Not impacted	
1085	12038 White Cap	4" Vitex	Not protected	Private tree, Not impacted	
1086	12034 White Cap	12" Crepe Myrtle	Not protected	Private tree, Topped	
1087	12030 White Cap	25" Water Oak	Protected	50% dieback, Trunk decay, evaluate by HPARD	
1088	12030 White Cap	27" Water Oak	Protected	Hollow, evaluate by HPARD, Hypoxylon, Bees	
1089	12026 White Cap	16" Crepe Myrtle	Not protected	Topped	
1090	12026 White Cap	9" Crepe Myrtle	Not protected		
1091	12026 White Cap	19" Eastern Red Cedar	Not protected	Private tree	Fence, Demo-form-pour walk without damage to roots 1" or larger, Root prune for sanitary lead and water lead
1091A	12026 White Cap	3' Sago	Not protected		
1092	12022 White Cap	8" Arborvitae	Not protected	Private tree	
1093	12022 White Cap	14" Eastern Red Cedar	Not protected	Private tree	Fence, Demo-form-pour walk without damage to roots 1" or larger, Clearance prune
1094	12022 White Cap	3' Sago	Not protected		
1095	12022 White Cap	1" Little Gem Magnolia	Not protected	Private tree	
1096	12022 White Cap	39" Live Oak	Protected	Private tree	Fence, Demo-form-pour walk without damage to roots 1" or larger, Root prune for street and sanitary lead
1097	12018 White Cap	3" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
1098	12018 White Cap	3" Pecan	Protected	Remove for sidewalk	Remove tree, 3" replacement/mitigation required
1099	12018 White Cap	13" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
1100	12018 White Cap	36" Live Oak	Protected	Private tree	Fence, Demo-form-pour walk without damage to roots 1" or larger, Clearance prune, Root prune for sanitary lead
1101	12014 White Cap	21" Arizona Ash	Protected	Private tree	Fence, Demo-form-pour walk without damage to roots 1" or larger, Root prune for sanitary lead, Clearance prune
1102	12010 White Cap	1' Sago	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
1103	12010 White Cap	5" Live Oak	Not protected	Private tree, Not impacted	
1104	12010 White Cap	2" Pecan	Protected	Remove for sidewalk	Remove tree, 2" replacement/mitigation required
1105	12031 White Cap	24" Live Oak	Protected	Private tree, 30% dieback, Significant impacts from house construction	Fence, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
1106	12031 White Cap	3' Sago	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
1107	12031 White Cap	29" Live Oak	Protected	Private tree, 30% dieback, Significant impacts from house construction	Fence, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
1108	12027 White Cap	22" Live Oak	Protected	Private tree	Fence, Demo-form-pour walk without damage to roots 1" or larger, Bore waterline, Clearance prune
1109	12027 White Cap	15" Eastern Red Cedar	Not protected	Private tree	
1110	12027 White Cap	17" Black Locust	Not protected	Private tree, 40% dieback, Not impacted	
1111	12023 White Cap	25" Crepe Myrtle	Protected		Fence, Zero-curb-cutback, Clearance prune, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger, 8' Checkerplate
1112	12023 White Cap	25" Crepe Myrtle	Protected		Fence, Zero-curb-cutback, Clearance prune, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger, 8' Checkerplate
1113	12023 White Cap	5" Loquat	Not protected		Clearance prune
1114	12023 White Cap	9" Loquat	Not protected		Clearance prune
1115	12023 White Cap	12" Crepe Myrtle	Not protected	Topped	Clearance prune
1116	12023 White Cap	12" Crepe Myrtle	Not protected	Topped	Clearance prune
1117	12023 White Cap	12" Crepe Myrtle	Not protected	Topped	Clearance prune
1118	12000 Beechnut	5" Crepe Myrtle	Not protected	Private tree, Not impacted	

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HOUSTON PUBLIC WORKS

PAVING AND DRAINAGE IMPROVEMENTS IN ALIEF FOREST SOUTH AREA

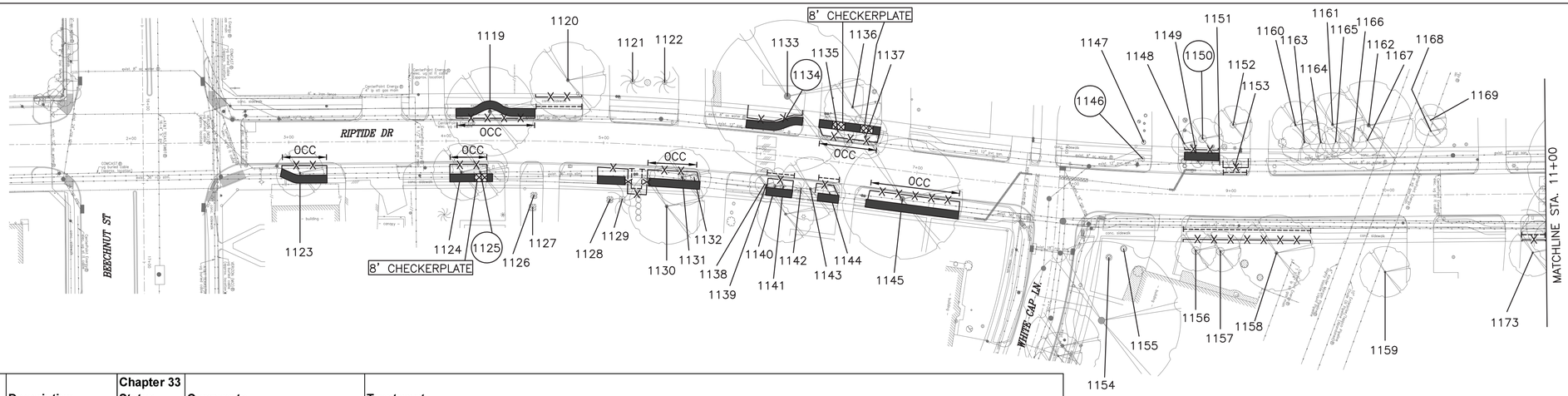
TREE PROTECTION PLAN

SHEET 17 OF 25

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 361 OF 369	

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Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees on Riptide Drive					
1119	8122 Riptide	22" Green Ash	Protected	60% dieback	Fence, Demo-form-pour walk without damage to roots 1" or larger, Zero-curb-cutback, Clearance prune
1120	8118 Riptide	22" Live Oak	Protected	Private tree	Fence, Root prune for sidewalk, Clearance prune
1121	8114 Riptide	10' Sago	Not protected	Private tree, Not impacted	
1122	8114 Riptide	10' Sago	Not protected	Private tree, Not impacted	
1123	12096 Beechnut	19" Mexican Sycamore	Protected	Hypoxylon, 50% dieback	Fence, Zero-curb-cutback, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger, Clearance prune
1124	8123 Riptide	22" Green Ash	Protected		Fence, Demo-form-pour walk without damage to roots 1" or larger, Bore waterline, Zero-curb-cutback, Clearance prune, 8' Checkerplate
1125	8123 Riptide	20" Green Ash	Protected	Remove for waterline bend	Remove tree, 20" replacement/mitigation required
1126	8123 Riptide	5" Peach	Not protected	Private tree	
1127	8123 Riptide	3' Sago	Not protected	Private tree	
1128	8119 Riptide	4" Sago	Not protected	Private tree	
1129	8119 Riptide	22" Pine	Protected	Private tree	Fence, Demo-form-pour walk without damage to roots 1" or larger, Bore waterline, Root prune for tap and lead
1130	8115 Riptide	28" Live Oak	Protected	Private tree	Fence, Demo-form-pour walk without damage to roots 1" or larger, Bore waterline, Zero-curb-cutback, Clearance prune
1131	8115 Riptide	20" Live Oak	Protected		Fence, Demo-form-pour walk without damage to roots 1" or larger, Bore waterline, Zero-curb-cutback, Clearance prune
1132	8115 Riptide	2' Sago	Not protected		
1133	8110 Riptide	47" Arizona Ash	Protected	Private tree, 70% dieback	Fence, Demo-form-pour walk without damage to roots 1" or larger, Clearance prune
1134	8110 Riptide	3' Sago	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
1135	8106 Riptide	14" Live Oak	Protected		Fence, 8' Checkerplate, Clearance prune, Demo-form-pour walk without damage to roots 1" or larger, Zero-curb-cutback, Hand dig lead
1136	8106 Riptide	23" Sycamore	Protected	Private tree, 60% dieback, Not impacted	
1137	8106 Riptide	16" Live Oak	Protected		Fence, Demo-form-pour walk without damage to roots 1" or larger, Zero-curb-cutback, 8' Checkerplate
1138	8111 Riptide	10" Arizona Ash	Not protected		Clearance prune
1139	8111 Riptide	6" Crepe Myrtle	Not protected		Clearance prune
1140	8111 Riptide	2" Water Oak	Protected		Fence, Root prune for street, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger, Clearance prune
1141	8111 Riptide	2" Water Oak	Protected		Fence, Root prune for street, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger, Clearance prune
1142	8111 Riptide	5' Palm	Not protected		
1143	8111 Riptide	12" Ligustrum	Not protected		Clearance prune
1144	8111 Riptide	5" Yaupon	Protected		Fence, Root prune for street, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
1145	8107 Riptide	45" Arizona Ash	Protected	Trunk decay	Fence, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger, Clearance prune, Zero-curb-cutback
1146	8006 Riptide	3" Vitex	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
1147	8006 Riptide	3' Sago	Not protected	Private tree	
1148	8006 Riptide	5" Loquat	Not protected	Private tree	
1149	8006 Riptide	17" Magnolia	Protected	Private tree, 20% dieback	Fence, Demo-form-pour walk without damage to roots 1" or larger, Clearance prune
1150	8006 Riptide	4" Mulberry	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
1151	8006 Riptide	7" Vitex	Not protected		Clearance prune
1152	8006 Riptide	14" Magnolia	Not protected	Private tree, Not impacted	
1153	8006 Riptide	6" Mulberry	Protected		Fence, Root prune for street, Demo-form-pour walk without damage to roots 1" or larger, Bore waterline, Hand dig for tap and lead
1154	12066 White Cap	3" Althea	Not protected	Private tree	
1155	12066 White Cap	3" Texas Sage	Not protected	Private tree	
1156	12066 White Cap	18" Bradford Pear	Not protected	Private tree, Topped	Fence, Root prune for storm, Clearance prune
1157	12066 White Cap	16" Bradford Pear	Not protected	Private tree	Fence, Root prune for storm, Clearance prune
1158	12066 White Cap	22" Tallow	Protected	Private tree, Trunk cavity	Fence, Root prune for storm, Clearance prune
1159	7927 Riptide	19" Pecan	Protected	Private tree, Not impacted	
1160	8002 Riptide	14" Arborvitae	Not protected	Private tree	
1161	8002 Riptide	14" Arborvitae	Not protected	Private tree	
1162	8002 Riptide	14" Arborvitae	Not protected	Private tree	
1163	8002 Riptide	8" Crepe Myrtle	Not protected	Private tree, Topped	
1164	8002 Riptide	8" Crepe Myrtle	Not protected	Private tree, Topped	
1165	8002 Riptide	8" Crepe Myrtle	Not protected	Private tree, Topped	
1166	8002 Riptide	8" Crepe Myrtle	Not protected	Private tree, Topped	
1167	8002 Riptide	8" Crepe Myrtle	Not protected	Private tree, Topped	
1168	7926 Riptide	7" Arborvitae	Not protected	Private tree, Not impacted	
1169	7926 Riptide	7" Arborvitae	Not protected	Private tree, Not impacted	
1173	7919 Riptide	17" Green Ash	Protected	Private tree, Trunk wound	Fence, Root prune for storm, Clearance prune

NOTE:

1. THIS TREE PROTECTION PLAN WAS DEVELOPED WITH INFORMATION PROVIDED BY DESIGN ENGINEER IN DRAWINGS DATED JULY 2026. THE PLAN CONSIDERS ALL FITTINGS, VERTICAL OFFSETS AND AREAS OF NECESSARY EXCAVATION. CHANGES MADE TO DESIGN MAY COMPROMISE THE TREE PROTECTION PLAN. REFER SPECIFICATIONS 01562 AND 02915.
2. CN KOEHL URBAN FORESTRY, INC. HAS NOT BEEN CONTRACTED TO COMPLETE ANY TREE RISK ASSESSMENTS ON THIS PROJECT–THIS TPP INCLUDES PROTECTION MEASURES FOR SPECIES OF TREES PROTECTED BY APPLICABLE ORDINANCE ONLY. CN KOEHL URBAN FORESTRY, INC. DOES NOT GUARANTEE CONDITION OR STRUCTURAL INTEGRITY OF ANY TREE LOCATED ON OR ADJACENT TO THIS PROJECT.
3. IN AREAS WHERE INDIVIDUAL TREES HAVE NOT BEEN TIED IN BY SURVEY, APPROXIMATE LOCATION IS INDICATED ON TPP WITH A DOT AND TREE NUMBER. ACCURACY OF REPRESENTED LOCATION IS NOT GUARANTEED BY CN KOEHL URBAN FORESTRY, INC.
4. THE CONTRACTOR'S ARBORIST WILL MARK LOCATIONS OF TREES TO BE PLANTED AND OBTAIN APPROVAL BY CITY ENGINEER AND CITY FORESTER BEFORE PURCHASING OR EXCAVATING PLANTING HOLE OF EACH TREE.

40 0 40

SCALE: 1"=40'

TREE PRESERVATION PLAN LEGEND

- 1 — TREE NUMBER/LOCATION
- (1) — TREE TO BE REMOVED
- –X–X– — TREE PROTECTION FENCE
- ROOT PRUNING TRENCH
- SIDEWALK ON GRADE
- CHECKERPLATE SECTION
- OCC — ZERO CUTBACK CURB

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SURVEYED BY: Kuo&Associates
FB NO. P–

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

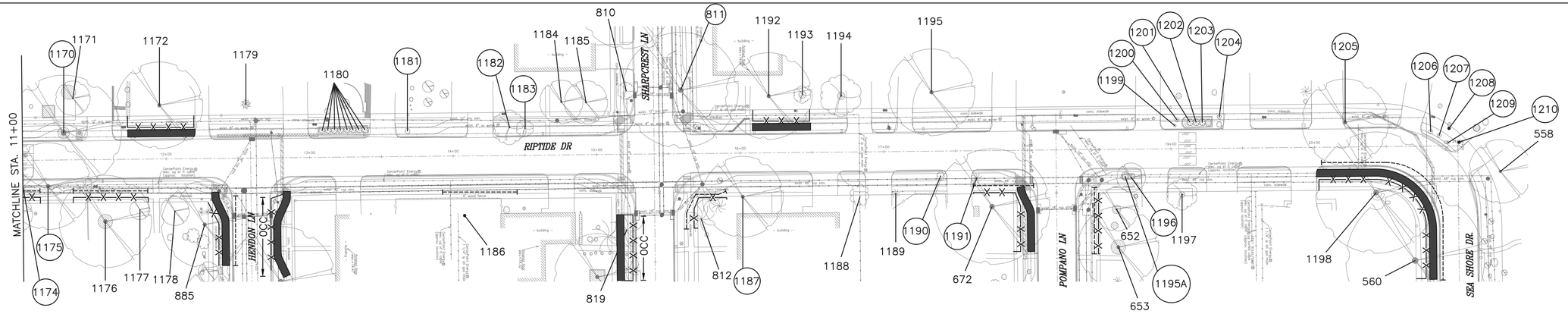
PAVING AND DRAINAGE IMPROVEMENTS IN ALIEF FOREST SOUTH AREA

TREE PROTECTION PLAN

SHEET 18 OF 25

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 362 OF 369	

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Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees on Riptide Drive					
1170	7922 Riptide	39" Live Oak	Protected	Remove for ADA compliance	Remove tree, 39" replacement/mitigation required
1171	7922 Riptide	12" Tallow	Not protected	Private tree, Not impacted	
1172	7918 Riptide	28" Live Oak	Protected	Private tree	Fence, Demo-form-pour walk without damage to roots 1" or larger, Bore waterline, Clearance prune
1174	7919 Riptide	20" Pine	Protected	Remove for storm	Remove tree, 20" replacement/mitigation required
1175	7919 Riptide	21" Tallow	Protected	Remove for storm	Remove tree, 21" replacement/mitigation required
1176	7919 Riptide	29" Live Oak	Protected	Private tree	Fence, Root prune for storm, Clearance prune
1177	7919 Riptide	8" Catalpa	Protected	Private tree	Fence, Root prune for storm, Clearance prune
1178	7919 Riptide	10" Magnolia	Protected	Private tree, 50% dieback, Not impacted	
1179	7914 Riptide	5' Sago	Not protected	Private tree	
1180	7910 Riptide	1" Rose	Not protected		
1181	7906 Riptide	1" Pride of Barbados	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
1182	7902 Riptide	13" Crepe Myrtle	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
1183	7902 Riptide	13" Crepe Myrtle	Not protected	Remove for storm	Remove tree, No replacement/mitigation required
1184	7902 Riptide	11" Juniper	Not protected	Private tree	
1185	7902 Riptide	11" Juniper	Not protected	Private tree	
1186	12031 Sharpcrest	23" Pecan	Protected	Private tree	Root prune for storm, Clearance prune
1187	12030 Sharpcrest	22" Water Oak	Protected	Remove for storm	Remove tree, 22" replacement/mitigation required
1188	12031 Pompano	4" Redbud	Protected	Private tree	Clearance prune
1189	12031 Pompano	6' Sago	Not protected		
1190	12031 Pompano	3" Juniper	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
1191	12031 Pompano	2' Sago	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
1192	7814 Riptide	27" Water Oak	Protected	Private tree	Fence, Bore waterline, Demo-form-pour walk without damage to roots 1" or larger
1193	7810 Riptide	5" Crepe Myrtle	Not protected	Private tree, Not impacted	
1194	7810 Riptide	8" Crepe Myrtle	Not protected	Private tree, Not impacted	
1195	7806 Riptide	21" Mulberry	Protected	Private tree, Not impacted	
1195A	12030 Pompano	3' Sago	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
1196	12030 Pompano	10" Vitex	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
1197	12030 Pompano	7" Crepe Myrtle	Not protected	Private tree, Not impacted	
1198	12031 Pompano	49" Arizona Ash	Protected	Private tree, Trunk decay	Fence, Demo-form-pour walk without damage to roots 1" or larger, Root prune for street, Clearance prune
1199	7710 Riptide	1' Sago	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
1200	7710 Riptide	2" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
1201	7710 Riptide	3" Chinese Privet	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
1202	7710 Riptide	3" Chinese Privet	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
1203	7710 Riptide	2' Sago	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
1204	7710 Riptide	4" Crepe Myrtle	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
1205	7706 Riptide	23" Live Oak	Protected	Remove for sidewalk	Remove tree, 23" replacement/mitigation required
1206	12038 Sea Shore	3" Peaches	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
1207	12038 Sea Shore	3" Peaches	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
1208	12038 Sea Shore	3" Live Oak	Protected	Remove for sidewalk	Remove tree, 3" replacement/mitigation required
1209	12038 Sea Shore	3" Vitex	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required
1210	12038 Sea Shore	2" Pyracantha	Not protected	Remove for sidewalk	Remove tree, No replacement/mitigation required

NOTE:

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TREE PRESERVATION PLAN LEGEND

- 1 — TREE NUMBER/LOCATION
- (1) — TREE TO BE REMOVED
- –X–X– TREE PROTECTION FENCE
- ROOT PRUNING TRENCH
- SIDEWALK ON GRADE
- CHECKERPLATE SECTION
- OCC ZERO CUTBACK CURB

40 0 40

SCALE: 1"=40'

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SURVEYED BY: Kuo&Associates
FB NO. P–

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

PAVING AND DRAINAGE IMPROVEMENTS IN ALIEF FOREST SOUTH AREA

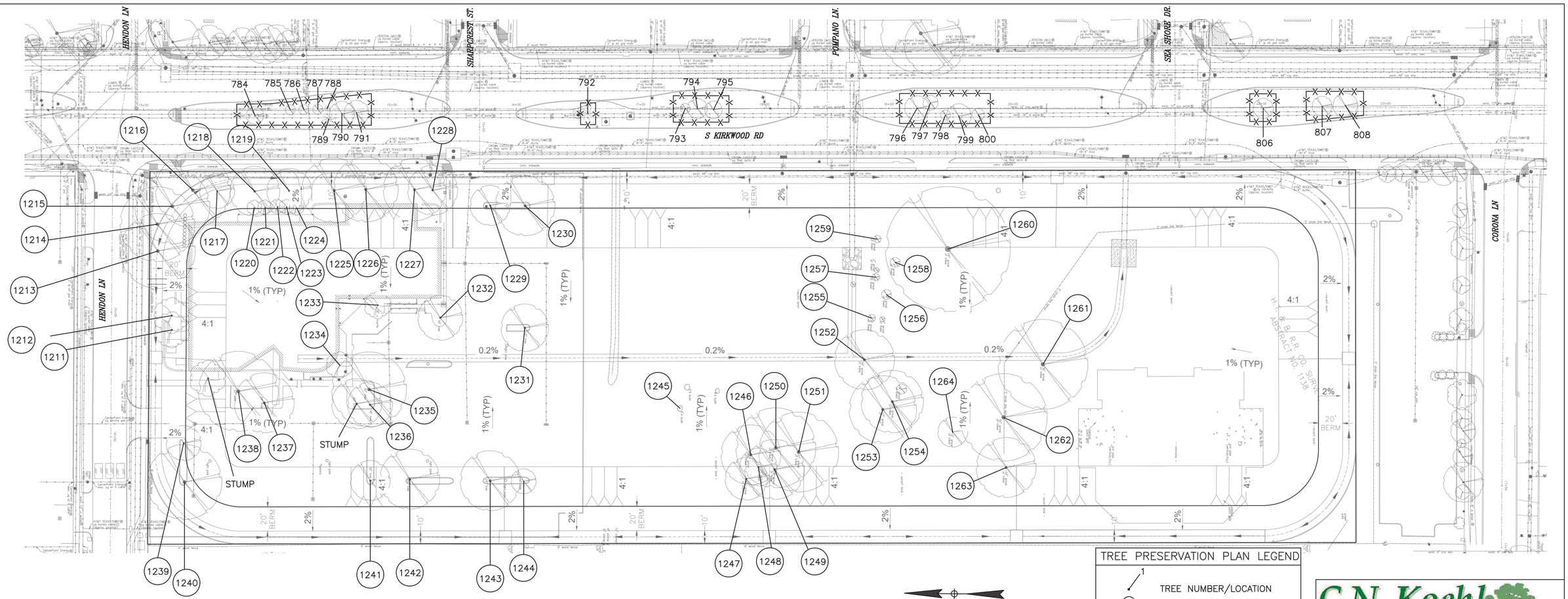
TREE PROTECTION PLAN

SHEET 19 OF 25

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 363 OF 369	

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TREE PRESERVATION PLAN LEGEND

- TREE NUMBER/LOCATION
- (1) TREE TO BE REMOVED
- TREE PROTECTION FENCE
- ROOT PRUNING TRENCH
- SIDEWALK ON GRADE
- CHECKERPLATE SECTION
- OCC ZERO CUTBACK CURB

Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees in S Kirkwood Detention Pond					
1211	7605 Corona Ln	13" Crepe Myrtle	Not protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1212	7605 Corona Ln	14" Crepe Myrtle	Not protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1213	7605 Corona Ln	26" Live Oak	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1214	7605 Corona Ln	22" Live Oak	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1215	7605 Corona Ln	24" Live Oak	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1216	7605 Corona Ln	27" Live Oak	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1217	7605 Corona Ln	15" Live Oak	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1218	7605 Corona Ln	22" Live Oak	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1219	7605 Corona Ln	18" Live Oak	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1220	7605 Corona Ln	8" Crepe Myrtle	Not protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1221	7605 Corona Ln	8" Crepe Myrtle	Not protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1222	7605 Corona Ln	8" Crepe Myrtle	Not protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1223	7605 Corona Ln	8" Crepe Myrtle	Not protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1224	7605 Corona Ln	8" Crepe Myrtle	Not protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1225	7605 Corona Ln	21" Live Oak	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1226	7605 Corona Ln	21" Live Oak	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1227	7605 Corona Ln	21" Live Oak	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1228	7605 Corona Ln	19" Live Oak	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1229	7605 Corona Ln	15" Live Oak	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1230	7605 Corona Ln	16" Live Oak	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1231	7605 Corona Ln	17" Live Oak	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1232	7605 Corona Ln	18" Shumard Oak	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1233	7605 Corona Ln	16" Crepe Myrtle	Not protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1234	7605 Corona Ln	11" Crepe Myrtle	Not protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1235	7605 Corona Ln	17" Shumard Oak	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1236	7605 Corona Ln	19" Bradford Pear	Not protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required

Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees in S Kirkwood Detention Pond					
1237	7605 Corona Ln	20" Bradford Pear	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1238	7605 Corona Ln	22" Bradford Pear	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1239	7605 Corona Ln	12" Live Oak	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1240	7605 Corona Ln	24" Live Oak	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1241	7605 Corona Ln	16" Live Oak	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1242	7605 Corona Ln	21" Live Oak	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1243	7605 Corona Ln	16" Live Oak	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1244	7605 Corona Ln	10" Live Oak	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1245	7605 Corona Ln	8" Green Ash	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1246	7605 Corona Ln	12" Huisache	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1247	7605 Corona Ln	7" Huisache	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1248	7605 Corona Ln	8" Huisache	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1249	7605 Corona Ln	10" Huisache	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1250	7605 Corona Ln	14" Huisache	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1251	7605 Corona Ln	9" Huisache	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1252	7605 Corona Ln	8" Lacebark Elm	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1253	7605 Corona Ln	7" Arizona Ash	Not protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1254	7605 Corona Ln	8" Arizona Ash	Not protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1255	7605 Corona Ln	5" Arizona Ash	Not protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1256	7605 Corona Ln	7" Arizona Ash	Not protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1257	7605 Corona Ln	5" Arizona Ash	Not protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1258	7605 Corona Ln	5" Arizona Ash	Not protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1259	7605 Corona Ln	4" Arizona Ash	Not protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1260	7605 Corona Ln	12" Mulberry	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1261	7605 Corona Ln	10" Arizona Ash	Not protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1262	7605 Corona Ln	8" Lacebark Elm	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1263	7605 Corona Ln	7" Arizona Ash	Not protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1264	7605 Corona Ln	4" Arizona Ash	Not protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required

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APPROVED:

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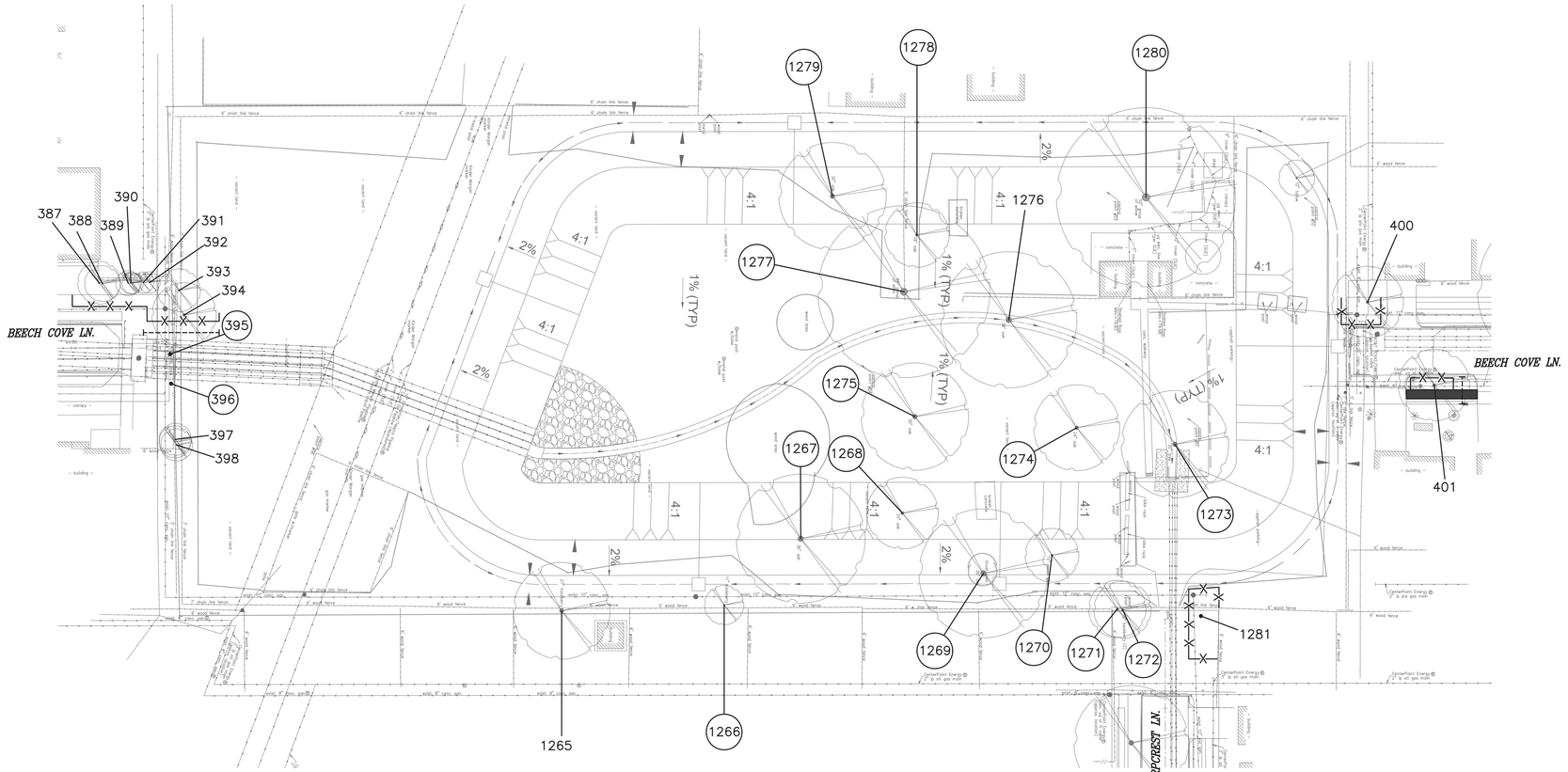
TREE PROTECTION PLAN

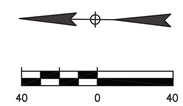
SHEET 20 OF 25

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
1"=40'	
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ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 364 OF 369	

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SCALE: 1"=40'

TREE PRESERVATION PLAN LEGEND

- 1 — TREE NUMBER/LOCATION
- (1) — TREE TO BE REMOVED
- X—X — TREE PROTECTION FENCE
- ROOT PRUNING TRENCH
- SIDEWALK ON GRADE
- CHECKERPLATE SECTION
- OCC — ZERO CUTBACK CURB

NOTE:

1. THIS TREE PROTECTION PLAN WAS DEVELOPED WITH INFORMATION PROVIDED BY DESIGN ENGINEER IN DRAWINGS DATED JULY 2026. THE PLAN CONSIDERS ALL FITTINGS, VERTICAL OFFSETS AND AREAS OF NECESSARY EXCAVATION. CHANGES MADE TO DESIGN MAY COMPROMISE THE TREE PROTECTION PLAN. REFER SPECIFICATIONS 01562 AND 02915.
2. CN KOEHL URBAN FORESTRY, INC. HAS NOT BEEN CONTRACTED TO COMPLETE ANY TREE RISK ASSESSMENTS ON THIS PROJECT–THIS TPP INCLUDES PROTECTION MEASURES FOR SPECIES OF TREES PROTECTED BY APPLICABLE ORDINANCE ONLY. CN KOEHL URBAN FORESTRY, INC. DOES NOT GUARANTEE CONDITION OR STRUCTURAL INTEGRITY OF ANY TREE LOCATED ON OR ADJACENT TO THIS PROJECT.
3. IN AREAS WHERE INDIVIDUAL TREES HAVE NOT BEEN TIED IN BY SURVEY, APPROXIMATE LOCATION IS INDICATED ON TPP WITH A DOT AND TREE NUMBER. ACCURACY OF REPRESENTED LOCATION IS NOT GUARANTEED BY CN KOEHL URBAN FORESTRY, INC.
4. THE CONTRACTOR'S ARBORIST WILL MARK LOCATIONS OF TREES TO BE PLANTED AND OBTAIN APPROVAL BY CITY ENGINEER AND CITY FORESTER BEFORE PURCHASING OR EXCAVATING PLANTING HOLE OF EACH TREE.

Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
Trees in Beech Cove Ln Detention Pond					
1265	12042 Beech Cove Ln	23" Sugarberry	Not protected	Private tree, Pruned by CPE, Not impacted	
1266	12042 Beech Cove Ln	10" Sugarberry	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1267	12042 Beech Cove Ln	19" Cottonwood	Not protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1268	12042 Beech Cove Ln	15" Live Oak	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1269	12042 Beech Cove Ln	25" Live Oak	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1270	12042 Beech Cove Ln	14" Sweetgum	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1271	12042 Beech Cove Ln	19" Sugarberry	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1272	12042 Beech Cove Ln	16" Sugarberry	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1273	12042 Beech Cove Ln	27" Catalpa	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1274	12042 Beech Cove Ln	11" American Elm	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1275	12042 Beech Cove Ln	14" Live Oak	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1276	12042 Beech Cove Ln	18" Sugarberry	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1277	12042 Beech Cove Ln	22" Arizona Ash	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1278	12042 Beech Cove Ln	10" Sugarberry	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1279	12042 Beech Cove Ln	13" Arizona Ash	Not protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1280	12042 Beech Cove Ln	17" Sugarberry	Protected	Remove for detention pond/swale	Remove tree, No replacement/mitigation required
1281	12042 Beech Cove Ln	22" American Elm	Protected		Fence, Clearance prune

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SURVEYED BY: Kuo&Associates
FB NO. P–

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

PAVING AND DRAINAGE IMPROVEMENTS IN ALIEF FOREST SOUTH AREA

TREE PROTECTION PLAN

SHEET 21 OF 25

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N–210015–0001–3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 365 OF 369	

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Arboriculturally Significant Tree List

Tree No.	Location	Description
1	12230 Sela	23" Pecan
4	12230 Sela	36" Live Oak
14	12202 Sela	52" Arizona Ash
20	12223 Sela	20" Pine
23	12219 Sela	23" Pine
28	12215 Sela	23" Bradford Pear
40	12207 Sela	20" Bradford Pear
52	12119 Sela	22" Arizona Ash
53	12119 Sela	28" Arizona Ash
54	12111 Sela	28" Water Oak
55	12111 Sela	29" Live Oak
57	12107 Sela	27" Arizona Ash
58	12103 Sela	22" Crepe Myrtle
72	12106 Sela	22" Pecan
75	12102 Sela	28" Live Oak
76	12086 Sela	49" Arizona Ash
77	12082 Sela	27" Water Oak
78	12082 Sela	23" Live Oak
79	12082 Sela	22" Live Oak
80	12082 Sela	24" Live Oak
82	12074 Sela	45" Arizona Ash
83	12074 Sela	26" Pine
84	12074 Sela	23" Pine
88	12070 Sela	20" Pine
108	12058 Sela	22" Arizona Ash
109	Not Available	20" Bradford Pear
115	Not Available	22" Pine
120	12050 Sela	51" Arizona Ash
125	12038 Sela	28" Live Oak
126	12034 Sela	25" Live Oak
133	12039 Sela	21" Live Oak
141	12027 Sela	32" Live Oak
142	12018 Sela	33" Live Oak
133A	12246 Sela	20" Arizona Ash
135A	12246 Sela	22" Tallow
144	12218 Corona	31" Arizona Ash
147	12222 Corona	33" Live Oak
151	12218 Corona	27" Arizona Ash
155	12214 Corona	28" Live Oak
156	12214 Corona	23" Live Oak
160	12206 Corona	27" Live Oak
167	12207 Corona	39" Live Oak
179	12126 Corona	20" Bradford Pear
189	12123 Corona	22" Willow Oak
205	12103 Corona	23" Sweetgum
209	12106 Corona	21" Pine
228	12218 Sea Shore	36" Live Oak
233	12214 Sea Shore	23" Arizona Ash
237	12223 Sea Shore	28" Shumard Oak
251	12206 Sea Shore	26" Live Oak
254	12206 Sea Shore	24" Live Oak
255	12206 Sea Shore	22" Live Oak
258	12126 Sea Shore	31" Arizona Ash
271	12118 Sea Shore	38" Live Oak
275	12127 Sea Shore	20" Pine
278	12123 Sea Shore	21" Water Oak
285	12115 Sea Shore	24" Live Oak
290	12111 Sea Shore	38" Live Oak
295	12108 Sea Shore	27" Catalpa
296	12108 Sea Shore	23" Pine
298	12102 Sea Shore	37" Arizona Ash
299	12247 Pompano	23" Arizona Ash
300	12243 Pompano	23" Arizona Ash
306	12235 Pompano	24" Green Ash
307	12231 Pompano	23" Live Oak
329	12202 Pompano	22" Pecan
333	12219 Pompano	41" Arizona Ash
342	12123 Pompano	36" Mulberry
344	12111 Pompano	25" Pecan
347	12114 Pompano	29" Tallow
361	12103 Pompano	46" Live Oak
365	12225 White Cap	22" Live Oak
366	12221 White Cap	20" Live Oak
369	12223 White Cap	22" Live Oak
380	8127 Beech Cove	24" Siberian Elm
386	8116 Beech Cove	23" Live Oak
400	12103 Pompano	21" Sugarberry
401	7811 Beech Cove	20" Tallow
402	7807 Beech Cove	21" Live Oak
403	7807 Beech Cove	28" Live Oak
406	7715 Beech Cove	34" Arizona Ash
426	7703 Beech Cove	22" Willow Oak
428	7627 Beech Cove	24" Tallow
429	7623 Beech Cove	22" Tallow
430	7619 Beech Cove	22" Live Oak
441	12103 Sela	26" Bald Cypress

Arboriculturally Significant Tree List

Tree No.	Location	Description
447	12103 Sela	21" Crepe Myrtle
449	7815 Beech Cove	23" Live Oak
457	12242 Sela	20" Arizona Ash
458	12238 Sela	20" Mulberry
464	12222 Corona	21" Live Oak
467	12222 Corona	21" Live Oak
469	12038 Corona	32" Green Ash
477	12030 Corona	23" Live Oak
479	7618. Riptide	23" Tallow
480	12047 Corona	31" Water Oak
481	12043 Corona	22" Live Oak
484	12031 Corona	21" Green Ash
486	12031 Corona	22" Pine
493	12025 Corona	35" Live Oak
520	12011 Corona	23" Arizona Ash
536	12006 Corona	22" Arizona Ash
537	12002 Corona	33" Tallow
538	12002 Corona	25" Crepe Myrtle
540	12012 Sela	21" Pecan
541	12012 Sela	22" Pecan
546	11913 Corona	27" Live Oak
548	11911 Corona	23" Sweetgum
549	11911 Corona	21" Sweetgum
550	11907 Corona	24" Pine
553	7602 S Kirkwood	21" Pine
555	7602 S Kirkwood	20" Pine
560	12031 Sea Shore	45" Arizona Ash
565	12023 Sea Shore	27" Water Oak
566	12019 Sea Shore	37" Arizona Ash
567	12019 Sea Shore	26" Arizona Ash
572	12022 Sea Shore	25" Live Oak
583	12003 Sea Shore	28" Live Oak
586A	11934 Sea Shore	26" Live Oak
596	11931 Sea Shore	26" Arizona Ash
599	11927 Sea Shore	28" Mulberry
603	11918 Sea Shore	26" Water Oak
606	11915 Sea Shore	43" Water Oak
620	11914 Sea Shore	47" Water Oak
626	11906 Sea Shore	23" Pecan
627	11902 Sea Shore	47" Arizona Ash
636	11903 Sea Shore	35" Live Oak
640	12939 Corona	21" Tallow
645	12022 Sea Shore	25" Live Oak
648	12022 Sea Shore	26" Live Oak
649	12031 Corona	28" Green Ash
653	12030 Pompano	25" Magnolia
672	12031 Pompano	28" Live Oak
681	12019 Pompano	29" Crepe Myrtle
685A	12007 Pompano	24" Green Ash
687	12007 Pompano	22" Pecan
696	11930 Pompano	43" Live Oak
711	11931 Pompano	24" Pine
736	11914 Pompano	25" Crepe Myrtle
737	11914 Pompano	22" Crepe Myrtle
753	12067 Sela	26" Sycamore
759	12006 Sela	37" Live Oak
801	11902 Pompano	22" Mulberry
809	7902 Riptide	33" Water Oak
811	7814 Riptide	34" Water Oak
822	12031 Sharpcrest	28" Live Oak
824	12027 Sharpcrest	24" Live Oak
825	12027 Sharpcrest	28" Live Oak
826	12023 Sharpcrest	28" Green Ash
827	12019 Sharpcrest	24" Live Oak
832	12014 Sharpcrest	27" Water Oak
833	12010 Sharpcrest	39" Live Oak
838	12011 Sharpcrest	23" Sweetgum
839	12011 Sharpcrest	22" Pine
856	11927 Sharpcrest	27" Live Oak
868	11925 Sharpcrest	23" Chinaberry
869	11922 Sharpcrest	27" Live Oak
870	11914 Sharpcrest	33" Live Oak
884	12030 Hendon	35" Live Oak
885	7919 Riptide	20" Live Oak
888	12018 Hendon	29" Live Oak
889	12014 Hendon	28" Live Oak
890	12014 Hendon	22" Pecan
898	12030 Langdon	22" Pine
912	11922 Hendon	29" Live Oak
913	11918 Hendon	25" Water Oak
916	11923 Hendon	39" Arizona Ash
918	11911 Hendon	32" Live Oak
919	11910 Hendon	33" Arizona Ash
920	11906 Hendon	27" Live Oak
926	12031 Langdon	24" Pine
930	12023 Langdon	35" Live Oak

Arboriculturally Significant Tree List

Tree No.	Location	Description
938	12026 Langdon	25" Pine
940	12026 Langdon	32" Arizona Ash
943	12011 Langdon	47" Live Oak
950	12026 Langdon	29" Arizona Ash
951	12002 Langdon	26" Live Oak
953	11934 Langdon	41" Live Oak
954	11934 Langdon	34" Live Oak
965	11926 Langdon	20" Arizona Ash
970	12003 Langdon	23" Water Oak
971	12003 Langdon	24" Water Oak
975	8002 Aqua	21" Mulberry
988	11910 Langdon	22" Pine
995	8003 Shiner	22" Green Ash
996	8003 Shiner	22" Tallow
997	11906 Langdon	23" Magnolia
999	11902 Langdon	22" Siberian Elm
1002	8002 Aqua	23" Live Oak
1003	8002 Aqua	21" Live Oak
1012	8010 Shiner	46" Arizona Aash
1013	8006 Shiner	25" Arizona Ash
1014	8002 Shiner	27" Arizona Ash
1025	8015 Shiner	23" Arizona Ash
1026	8011 Shiner	27" Arizona Ash
1028	8007 Shiner	37" Live Oak
1029	8003 Shiner	51" Live Oak
1031	8110 Starfish	26" Live Oak
1049	8103 Starfish	27" Live Oak
1050	8103 Starfish	26" Live Oak
1051	12066 White Cap	49" Live Oak
1057	12062 White Cap	25" Tallow
1063	12050 White Cap	21" Pecan
1069	8102 Starfish	22" Green Ash
1079	12046 White Cap	20" Bradford Pear
1082	12042 White Cap	29" Live Oak
1087	12030 White Cap	25" Water Oak
1096	12022 White Cap	39" Live Oak
1100	12018 White Cap	36" Live Oak
1101	12014 White Cap	21" Arizona Ash
1105	12031 White Cap	24" Live Oak
1107	12031 White Cap	29" Live Oak
1108	12027 White Cap	22" Live Oak
1111	12023 White Cap	25" Crepe Myrtle
1112	12023 White Cap	25" Crepe Myrtle
1119	8122 Riptide	22" Green Ash
1120	8118 Riptide	22" Live Oak
1124	8123 Riptide	22" Green Ash
1125	8123 Riptide	20" Green Ash
1129	8119 Riptide	22" Pine
1130	8115 Riptide	28" Live Oak
1131	8115 Riptide	20" Live Oak
1133	8110 Riptide	47" Arizona Ash
1136	8106 Riptide	23" Sycamore
1145	8107 Riptide	45" Arizona Ash
1158	12066 White Cap	22" Tallow
1170	7922 Riptide	39" Live Oak
1172	7918 Riptide	28" Live Oak
1174	7919 Riptide	20" Pine
1175	7919 Riptide	21" Tallow
1176	7919 Riptide	29" Live Oak
1186	12031 Sharpcrest	23" Pecan
1187	12030 Sharpcrest	22" Water Oak
1192	7814 Riptide	27" Water Oak
1195	7806 Riptide	21" Mulberry
1198	12031 Pompano	49" Arizona Ash
1205	7706 Riptide	23" Live Oak
1009	8014 Shiner	4" Crepe Myrtle
1010	8014 Shiner	1" Peach
1023	8019 Shiner	8" Camphor

Trees Identified by City of Houston Forestry/Parks & Recreation Department as Arboriculturally Significant are identified here and/or in treatment schedule included on TPP sheets. Arboriculturally Significant trees are to be pruned under direct supervision of City of Houston Forestry. Minimal pruning will be allowed for construction equipment access, and in some cases no pruning will be allowed. Contractor must review conditions around and/or under the canopy of Arboriculturally Significant trees and consider restrictions when preparing cost estimate and planning construction equipment that will be necessary to accomplish design installation with minimal to no tree pruning.

Tree Replacement List

Quantity	Caliper Size	Species	Container/Tree Spade size
	TOTAL REPLACEMENT INCHES INCLUDED IN PLAN		0

Forestry and Houston Public Works prior to PURCHASING trees. This project may not have adequate room for all required replacement trees without creating regulatory sign or traffic/pedestrian visibility issues. Number of trees and planting locations will be determined by City of Houston Urban Forestry in construction phase. Trees that are planted are to be maintained and watered for 2 years following planting per standard spec 02915. Timing of planting may be delayed in periods of drought with mandatory water restrictions in place-timing to be coordinated with City of Houston Urban Forestry. Trees in esplanade groupings to be planted in common bed with 4" of hardwood mulch between trees.

Trees are to be maintained and watered for 2 years following planting per standard spec 02915. Timing of planting may be delayed in periods of drought with mandatory water restrictions in place-timing to be coordinated with City of Houston Forestry.

Tree replacement locations shall comply with Houston Public Works spec sections 02811, 02911, 02912, 02915, 02921 & 02922. In general trees along sides of street right of ways shall be no closer than 3' to back of curb or 20' from another tree. Trees in medians shall be no closer than 6' back of curb, 75' from an intersection, 50' to a median cut, or 20' from another tree. Contractor to coordinate locations with City Forestry and HPW prior to PURCHASING trees. All replacement trees called out on plans may not be planted on project relative to coordination with listed parties.

Cash Allowance Due Parks from HPW for Balance of Mitigation Not Planted on Project

	Required Mitigation t	Mitigation rate/inch	
setback		$ 132.51	
0-5.99"	45	$ 302.12	$ 13,595.40
6-11.99"	94	$ 503.55	$ 47,333.70
12" +	1326	$ 671.40	$ 890,276.40
		TOTAL REQUIRED MITIGATION FEE	$ 951,205.50

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TBPE Firm Reg. #4575

SURVEYED BY: Kuo&Associates
FB NO. P-

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

PAVING AND DRAINAGE IMPROVEMENTS IN ALIEF FOREST SOUTH AREA

TREE PROTECTION PLAN

SHEET 22 OF 25

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
N.T.S.	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 366 OF 369	

Tree Removal List

Tree No.	Location	Description	Replacement requirement
2	12230 Sela	25' Palm	0
3	12230 Sela	25' Palm	0
19	12126 Sela	4" Crepe Myrtle	0
52	12119 Sela	22" Arizona Ash	0
54	12111 Sela	28" Water Oak	28
58	12103 Sela	22" Crepe Myrtle	22
64	12103 Sela	5" Crepe Myrtle	0
77	12082 Sela	27" Water Oak	27
79	12082 Sela	22" Live Oak	22
80	12082 Sela	24" Live Oak	24
85	7602 Riptide	7" Pecan	7
86	7602 Riptide	4" Peach	0
87	7602 Riptide	5' Sago	0
100	12059 Sela	8" Eastern Red Cedar	8
103	12059 Sela	2" Pecan	2
106	12051 Sela	6" Crepe Myrtle	0
107	12051 Sela	6" Crepe Myrtle	0
109	Not Available	20" Bradford Pear	20
113	Not Available	5" Crepe Myrtle	0
118	12050 Sela	6" Crepe Myrtle	0
119	12050 Sela	6" Crepe Myrtle	0
130	12045 Sela	7" Crepe Myrtle	0
135	12035 Sela	17" Crepe Myrtle	0
137	12035 Sela	4' Loquat	0
138D	12026 Sela	4" Crepe Myrtle	0
138E	12026 Sela	4" Crepe Myrtle	0
138F	12026 Sela	4" Crepe Myrtle	0
139	12026 Sela	4" Crepe Myrtle	0
140	12026 Sela	4" Crepe Myrtle	0
141	12026 Sela	4" Crepe Myrtle	0
142	12026 Sela	4" Crepe Myrtle	0
143	12026 Sela	4" Crepe Myrtle	0
144	12218 Corona	31" Arizona Ash	31
162	12215 Corona	2' Sago	0
163	12215 Corona	5' Palm	0
164	12211 Corona	2" Crepe Myrtle	0
165	12211 Corona	2" Crepe Myrtle	0
166	12211 Corona	17" Live Oak	17
168	12207 Corona	12" Tallow	0
170	12203 Corona	6" Crepe Myrtle	0
171	12203 Corona	6" Crepe Myrtle	0
176	12202 Corona	12" Arborvitae	0
188	12123 Corona	5" Crepe Myrtle	0
190	12123 Corona	12" Arborvitae	0
191	12123 Corona	5" Crepe Myrtle	0
192	12111 Corona	11" Crepe Myrtle	0
193	12111 Corona	11" Crepe Myrtle	0
194	12111 Corona	5' Sago	0
195	12111 Corona	10" Crepe Myrtle	0
197	12111 Corona	6" Crepe Myrtle	0
198	12107 Corona	10" Pecan	10
200	12103 Corona	4" Vitex	0
201	12103 Corona	4" Vitex	0
202	12103 Corona	4" Vitex	0
203	12103 Corona	4" Vitex	0
204	12103 Corona	4" Vitex	0
212	12106 Corona	1" Sago	0
217	12222 Sea Shore	6" Crepe Myrtle	0
218	12222 Sea Shore	3" Arborvitae	0
219	12222 Sea Shore	5" Crepe Myrtle	0
220	12222 Sea Shore	4" Arborvitae	0
221	12222 Sea Shore	7" Crepe Myrtle	0
222	12222 Sea Shore	4" Arborvitae	0
223	12222 Sea Shore	4" Arborvitae	0
224	12222 Sea Shore	4" Arborvitae	0
225	12222 Sea Shore	2" Arborvitae	0
226	12222 Sea Shore	3" Arborvitae	0
227	12218 Sea Shore	1" Raintree	0
229	12218 Sea Shore	6" Lacebark Elm	6
233	12214 Sea Shore	23" Arizona Ash	23
234	12214 Sea Shore	2" Magnolia	2
235	12214 Sea Shore	2 Vitex	0
243	12215 Sea Shore	6' Sago	0
244	12215 Sea Shore	3" Pecan	3
251	12206 Sea Shore	26" Live Oak	26
252	12206 Sea Shore	18" Live Oak	18
254	12206 Sea Shore	24" Live Oak	24
255	12206 Sea Shore	22" Live Oak	22
258	12126 Sea Shore	31" Arizona Ash	31
260	12122 Sea Shore	1' Sago	0
261	12122 Sea Shore	7" Crepe Myrtle	0

Tree Removal List

Tree No.	Location	Description	Replacement requirement
262	12122 Sea Shore	6" Green Ash	6
263	12122 Sea Shore	7" Crepe Myrtle	0
264	12122 Sea Shore	7" Crepe Myrtle	0
265	12118 Sea Shore	7" Crepe Myrtle	0
266	12118 Sea Shore	7" Crepe Myrtle	0
269	12118 Sea Shore	18" Arborvitae	0
270	12118 Sea Shore	18" Arborvitae	0
271	12118 Sea Shore	38" Live Oak	38
276	12127 Sea Shore	16" Pine	16
279	12123 Sea Shore	8" Crepe Myrtle	0
281	12123 Sea Shore	10" Crepe Myrtle	0
283	12123 Sea Shore	6" Crepe Myrtle	0
296	12108 Sea Shore	23" Pine	23
297	12108 Sea Shore	19" Pine	19
302	12239 Pompano	2" Peach	0
303	12239 Pompano	2" Peach	0
304	12239 Pompano	2" Peach	0
305	12239 Pompano	2" Peach	0
308	12231 Pompano	4" Crepe Myrtle	0
309	12227 Pompano	4" Crepe Myrtle	0
313	12222 Pompano	18" Tallow	0
315	12227 Pompano	4' Sago	0
320	12222 Pompano	10" Crepe Myrtle	0
321	12210 Pompano	5" Eastern Red Oak	5
322	12210 Pompano	7" Eastern Red Cedar	7
324	12210 Pompano	7" Eastern Red Cedar	7
325	12206 Pompano	2" Pecan	2
326	12206 Pompano	2" Pecan	2
327	12206 Pompano	2" Pecan	2
328	12206 Pompano	2" Pecan	2
334	12215 Pompano	16" Pine	16
335	12215 Pompano	8" Pine	8
339	12127 Pompano	10" Eastern Red Cedar	10
340	12127 Pompano	11" Redbud	11
343	12123 Pompano	18" Arborvitae	0
347	12114 Pompano	29" Tallow	29
359	12103 Pompano	2" Crepe Myrtle	0
361	12103 Pompano	46" Live Oak	46
395	Not Available	5" Sugarberry	5
396	Not Available	6" Tallow	0
412	12102 Pompano	5" Crepe Myrtle	0
414	12102 Pompano	16" Chinaberry	0
433	12103 Corona	19" Pine	19
437	12103 Corona	3" Vitex	0
438	12102 Corona	1' Sago	0
439	12102 Corona	10" Arborvitae	0
440	12103 Sela	16" Crepe Myrtle	0
442	12103 Sela	14" Crepe Myrtle	0
443	12103 Sela	6" Crepe Myrtle	0
444	12103 Sela	6" Crepe Myrtle	0
445	12103 Sela	3" Crepe Myrtle	0
447	12103 Sela	21" Crepe Myrtle	0
448	12103 Sela	2" Crepe Myrtle	0
451	7611 Beech Cove	1" Crepe Myrtle	0
452	7611 Beech Cove	1" Crepe Myrtle	0
477	12030 Corona	23" Live Oak	23
479	7618. Riptide	23" Tallow	0
480	12047 Corona	31" Water Oak	31
483	12039 Corona	8" Crepe Myrtle	0
510	12019 Corona	3" Crepe Myrtle	0
539	12002 Corona	17" Pecan	17
540	12012 Sela	21" Pecan	21
541	12012 Sela	22" Pecan	22
542	12012 Sela	18" Pine	18
543	12012 Sela	7" Crepe Myrtle	0
551	11907 Corona	1" Rose	1
553	7602 S Kirkwood	21" Pine	21
554	7602 S Kirkwood	14" Pine	14
555	7602 S Kirkwood	20" Pine	20
556	7602 S Kirkwood	14" Pine	14
557	7602 S Kirkwood	16" Pine	16
569	12022 Sea Shore	19" Live Oak	19
572	12022 Sea Shore	25" Live Oak	25
573	12018 Sea Shore	3" Oleander	0
574	12014 Sea Shore	6" Live Oak	6
575	12010 Sea Shore	13" Pecan	13
577	12006 Sea Shore	6" Eucalyptus	0
579	12006 Sea Shore	3' Palm	0
580	12006 Sea Shore	40' Palm	0
581	12006 Sea Shore	14" Bur Oak	14
583	12003 Sea Shore	28" Live Oak	28

Tree Removal List

Tree No.	Location	Description	Replacement requirement
586B	11930 Sea Shore	14" Arizona Ash	0
587	11930 Sea Shore	3' Sago	0
589	11926 Sea Shore	5" Crepe Myrtle	0
590	11926 Sea Shore	3' Sago	0
591	11926 Sea Shore	3' Sago	0
592	11926 Sea Shore	3' Sago	0
593	11926 Sea Shore	5" Crepe Myrtle	0
596	11931 Sea Shore	26" Arizona Ash	26
600	11927 Sea Shore	3" Crepe Myrtle	0
601	11927 Sea Shore	3" Crepe Myrtle	0
602	11927 Sea Shore	3" Crepe Myrtle	0
609	11918 Sea Shore	3" Chinaberry	0
610	11918 Sea Shore	3" Chinaberry	0
611	11918 Sea Shore	15" Live Oak	15
612	11918 Sea Shore	5" Crepe Myrtle	0
613	11918 Sea Shore	5" Crepe Myrtle	0
614	11918 Sea Shore	5" Crepe Myrtle	0
615	11918 Sea Shore	6" Crepe Myrtle	0
616	11914 Sea Shore	10" Crepe Myrtle	0
618	11914 Sea Shore	5" Crepe Myrtle	0
621	11910 Sea Shore	13" Crepe Myrtle	0
622	11910 Sea Shore	11" Juniper	0
623	11910 Sea Shore	13" Crepe Myrtle	0
624	11910 Sea Shore	9" Crepe Myrtle	0
625	11910 Sea Shore	6" Crepe Myrtle	0
628	11902 Sea Shore	10' Palm	0
629	11902 Sea Shore	4" Oleander	0
631	11902 Sea Shore	10' Palm	0
632	11902 Sea Shore	5" Chinaberry	0
634	11903 Sea Shore	2" Citrus	0
635	11903 Sea Shore	2" Little Gem Magnolia	0
637	12030 Sea Shore	2" Red Maple	2
638	12030 Sea Shore	2" Red Maple	2
645	12022 Sea Shore	25" Live Oak	25
656	12026 Pompano	3" Crepe Myrtle	0
657	12026 Pompano	10" Crepe Myrtle	0
658	12026 Pompano	7" Crepe Myrtle	0
659	12026 Pompano	1" Fringe tree	0
663A	12018 Pompano	3' Sago	0
664A	12018 Pompano	5" Loquat	0
667	12018 Pompano	10" Crepe Myrtle	0
668	12018 Pompano	10" Crepe Myrtle	0
669	12018 Pompano	10" Crepe Myrtle	0
670	12014 Pompano	3" Crepe Myrtle	0
673	12031 Pompano	6" Crepe Myrtle	0
674	12027 Pompano	6" Crepe Myrtle	0
676	12027 Pompano	2" Water Oak	2
688	12006 Pompano	18" Live Oak	18
690	12006 Pompano	16" Live Oak	16
693	11934 Pompano	9" Crepe Myrtle	0
694	11934 Pompano	8" Pecan	8
695	11934 Pompano	5" Sugarberry	5
702	12003 Pompano	4" Oleander	0
703	12003 Pompano	2" Arizona Ash	0
717	11923 Pompano	2' Sago	0
727	11922 Pompano	2" Crepe Myrtle	0
728	11922 Pompano	8" Crepe Myrtle	0
729	11922 Pompano	4" Crepe Myrtle	0
730	11922 Pompano	3' Palm	0
733	11922 Pompano	7" Pecan	7
734	11922 Pompano	3' Sago	0
736	11914 Pompano	25" Crepe Myrtle	25
737	11914 Pompano	22" Crepe Myrtle	22
738	11910 Pompano	14" Pecan	14
739	11910 Pompano	19" Pecan	19
753	12067 Sela	26" Sycamore	26
809	7902 Riptide	33" Water Oak	33
811	7814 Riptide	34" Water Oak	34
813	12030 Sharpcrest	3" Crepe Myrtle	0
814	12030 Sharpcrest	3" Crepe Myrtle	0
815	12030 Sharpcrest	3" Crepe Myrtle	0
816	12030 Sharpcrest	3" Crepe Myrtle	0
817	12030 Sharpcrest	3" Crepe Myrtle	0
818	12030 Sharpcrest	3" Crepe Myrtle	0
895	12030 Langdon	13" Pecan	13
935	12030 Langdon	19" Pine	19
976	8002 Aqua	3' Sago	0
994	8003 Shiner	19" Green Ash	19
1007	8002 Aqua	6" Crepe Myrtle	0
1009	8014 Shiner	4" Crepe Myrtle	0
1010	8014 Shiner	1" Peach	0

Tree Removal List

Tree No.	Location	Description	Replacement requirement
1023	8019 Shiner	8" Camphor	0
1072	12035 White Cap	10" Crepe Myrtle	0
1073	12035 White Cap	10" Crepe Myrtle	0
1074	12035 White Cap	10" Crepe Myrtle	0
1075	12035 White Cap	10" Crepe Myrtle	0
1077	12035 White Cap	5" Crepe Myrtle	0
1097	12018 White Cap	3" Crepe Myrtle	0
1098	12018 White Cap	3" Pecan	3
1099	12018 White Cap	13" Crepe Myrtle	0
1102	12010 White Cap	1' Sago	0
1104	12010 White Cap	2" Pecan	2
1106	12031 White Cap	3' Sago	0
1125	8123 Riptide	20" Green Ash	20
1134	8110 Riptide	3' Sago	0
1146	8006 Riptide	3" Vitex	0
1150	8006 Riptide	4" Mulberry	0
1170	7922 Riptide	39" Live Oak	39
1174	7919 Riptide	20" Pine	20
1175	7919 Riptide	21" Tallow	21
1181	7906 Riptide	1" Pride of Barbados	0
1182	7902 Riptide	13" Crepe Myrtle	0
1183	7902 Riptide	13" Crepe Myrtle	0
1187	12030 Sharpcrest	22" Water Oak	22
1190	12031 Pompano	3" Juniper	0
1191	12031 Pompano	2' Sago	0
1195A	12030 Pompano	3' Sago	0
1196	12030 Pompano	10" Vitex	0
1199	7710 Riptide	1' Sago	0
1200	7710 Riptide	2" Crepe Myrtle	0
1201	7710 Riptide	3" Chinese Privet	0
1202	7710 Riptide	3" Chinese Privet	0
1203	7710 Riptide	2' Sago	0
1204	7710 Riptide	4" Crepe Myrtle	0
1205	7706 Riptide	23" Live Oak	23
1206	12038 Sea Shore	3" Peaches	0
1207	12038 Sea Shore	3" Peaches	0
1208	12038 Sea Shore	3" Live Oak	3
1209	12038 Sea Shore	3" Vitex	0
1210	12038 Sea Shore	2" Pyracantha	0
1211	7605 Corona Ln	13" Crepe Myrtle	0
1212	7605 Corona Ln	14" Crepe Myrtle	0
1213	7605 Corona Ln	26" Live Oak	0
1214	7605 Corona Ln	22" Live Oak	0
1215	7605 Corona Ln	24" Live Oak	0
1216	7605 Corona Ln	27" Live Oak	0
1217	7605 Corona Ln	15" Live Oak	0
1218	7605 Corona Ln	22" Live Oak	0
1219	7605 Corona Ln	18" Live Oak	0
1220	7605 Corona Ln	8" Crepe Myrtle	0
1221	7605 Corona Ln	8" Crepe Myrtle	0
1222	7605 Corona Ln	8" Crepe Myrtle	0
1223	7605 Corona Ln	8" Crepe Myrtle	0
1224	7605 Corona Ln	8" Crepe Myrtle	0
1225	7605 Corona Ln	21" Live Oak	0
1226	7605 Corona Ln	21" Live Oak	0
1227	7605 Corona Ln	21" Live Oak	0
1228	7605 Corona Ln	19" Live Oak	0
1229	7605 Corona Ln	15" Live Oak	0
1230	7605 Corona Ln	16" Live Oak	0
1231	7605 Corona Ln	17" Live Oak	0
1232	7605 Corona Ln	18" Shumard Oak	0
1233	7605 Corona Ln	16" Crepe Myrtle	0
1234	7605 Corona Ln	11" Crepe Myrtle	0
1235	7605 Corona Ln	17" Shumard Oak	0
1236	7605 Corona Ln	19" Bradford Pear	0
1237	7605 Corona Ln	20" Bradford Pear	0
1238	7605 Corona Ln	22" Bradford Pear	0
1239	7605 Corona Ln	12" Live Oak	0
1240	7605 Corona Ln	24" Live Oak	0
1241	7605 Corona Ln	16" Live Oak	0
1242	7605 Corona Ln	21" Live Oak	0
1243	7605 Corona Ln	16" Live Oak	0
1244	7605 Corona Ln	10" Live Oak	0

Tree Removal List

Tree No.	Location	Description	Replacement requirement
1245	7605 Corona Ln	8" Green Ash	0
1246	7605 Corona Ln	12" Huisache	0
1247	7605 Corona Ln	7" Huisache	0
1248	7605 Corona Ln	8" Huisache	0
1249	7605 Corona Ln	10" Huisache	0
1250	7605 Corona Ln	14" Huisache	0
1251	7605 Corona Ln	9" Huisache	0
1252	7605 Corona Ln	8" Lacebark Elm	0
1253	7605 Corona Ln	7" Arizona Ash	0
1254	7605 Corona Ln	8" Arizona Ash	0
1255	7605 Corona Ln	5" Arizona Ash	0
1256	7605 Corona Ln	7" Arizona Ash	0
1257	7605 Corona Ln	5" Arizona Ash	0
1258	7605 Corona Ln	5" Arizona Ash	0
1259	7605 Corona Ln	4" Arizona Ash	0
1260	7605 Corona Ln	12" Mulberry	0
1261	7605 Corona Ln	10" Arizona Ash	0
1262	7605 Corona Ln	8" Lacebark Elm	0
1263	7605 Corona Ln	7" Arizona Ash	0
1264	7605 Corona Ln	4" Arizona Ash	0
1266	12042 Beech Cove Ln	10" Sugarberry	0
1267	12042 Beech Cove Ln	19" Cottonwood	0
1268	12042 Beech Cove Ln	15" Live Oak	0
1269	12042 Beech Cove Ln	25" Live Oak	0
1270	12042 Beech Cove Ln	14" Sweetgum	0
1271	12042 Beech Cove Ln	19" Sugarberry	0
1272	12042 Beech Cove Ln	16" Sugarberry	0
1273	12042 Beech Cove Ln	27" Catalpa	0
1274	12042 Beech Cove Ln	11" American Elm	0
1275	12042 Beech Cove Ln	14" Live Oak	0
1276	12042 Beech Cove Ln	18" Sugarberry	0
1277	12042 Beech Cove Ln	22" Arizona Ash	0
1278	12042 Beech Cove Ln	10" Sugarberry	0
1279	12042 Beech Cove Ln	13" Arizona Ash	0
1280	12042 Beech Cove Ln	17" Sugarberry	0
		TOTAL REPLACEMENT INCHES REQUIRED	**1472**

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HOUSTON PUBLIC WORKS

PAVING AND DRAINAGE IMPROVEMENTS IN ALIEF FOREST SOUTH AREA

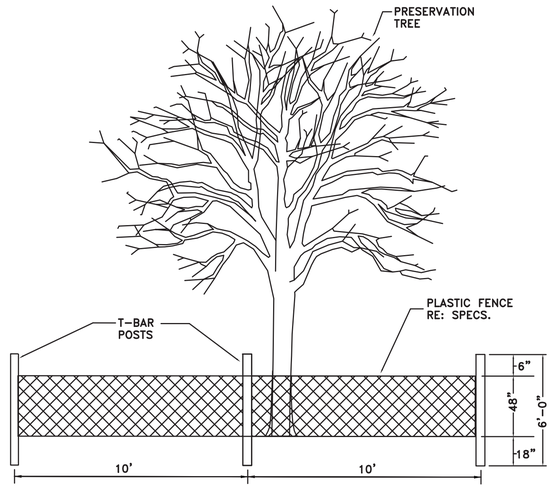
TREE PROTECTION PLAN

SHEET 23 OF 25

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CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 367 OF 369	

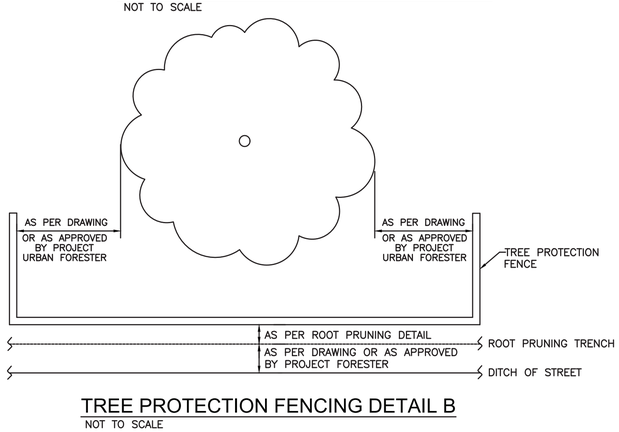
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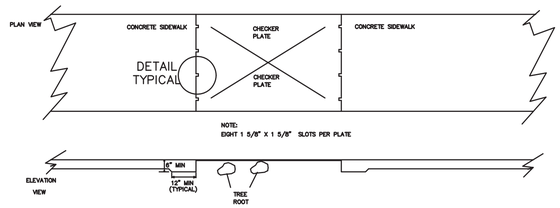
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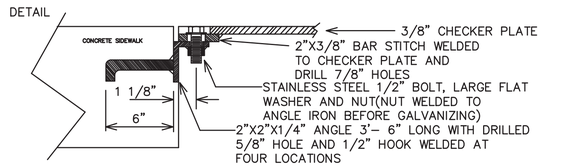
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TREE PROTECTION FENCING DETAIL B

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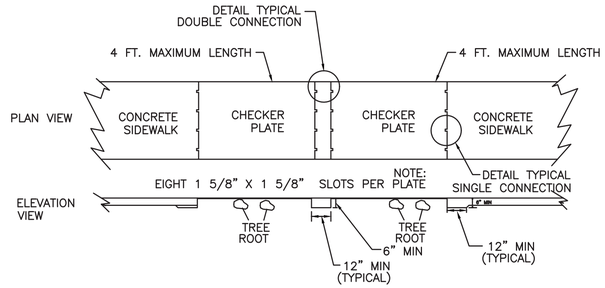


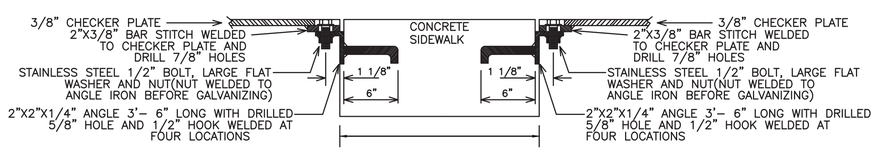


CHECKERPLATE DETAIL-SINGLE CONNECTION

NOT TO SCALE

NOTE:
ALL IRONWORK TO BE HOT DIPPED GALVINIZED EXCEPT AS NOTED.

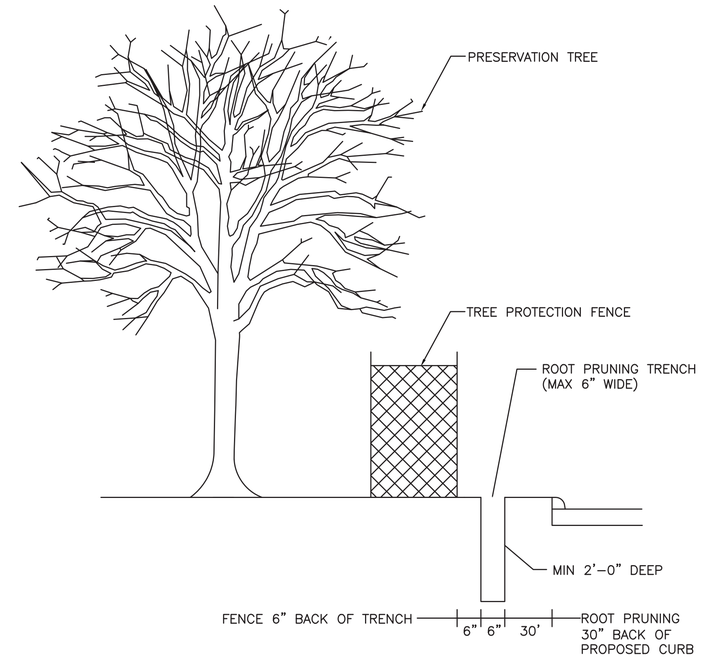




CHECKERPLATE DETAIL-DOUBLE CONNECTION

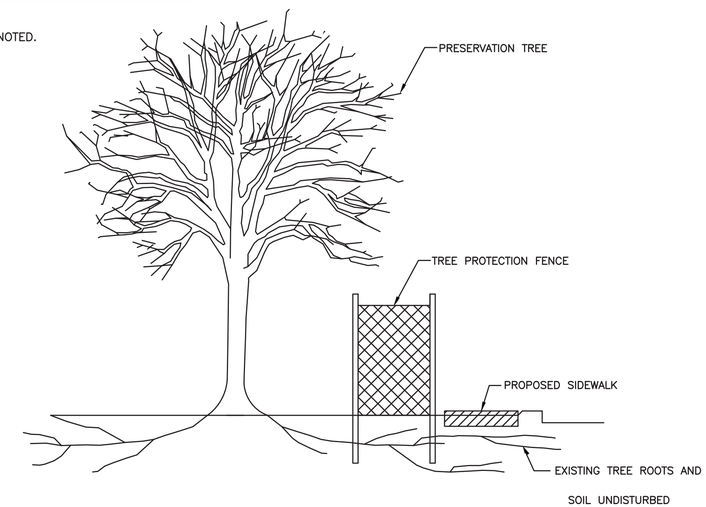
NOT TO SCALE

NOTE:
ALL IRONWORK TO BE HOT DIPPED GALVINIZED EXCEPT AS NOTED.



ROOT PRUNE FOR STREET-CURB & GUTTER - NO 0CC

NOT TO SCALE



DEMO-FORM-POUR WALK WITHOUT DAMAGE TO TREE ROOTS 1" DIAMETER OR LARGER

NOT TO SCALE

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CITY OF HOUSTON

HOUSTON PUBLIC WORKS

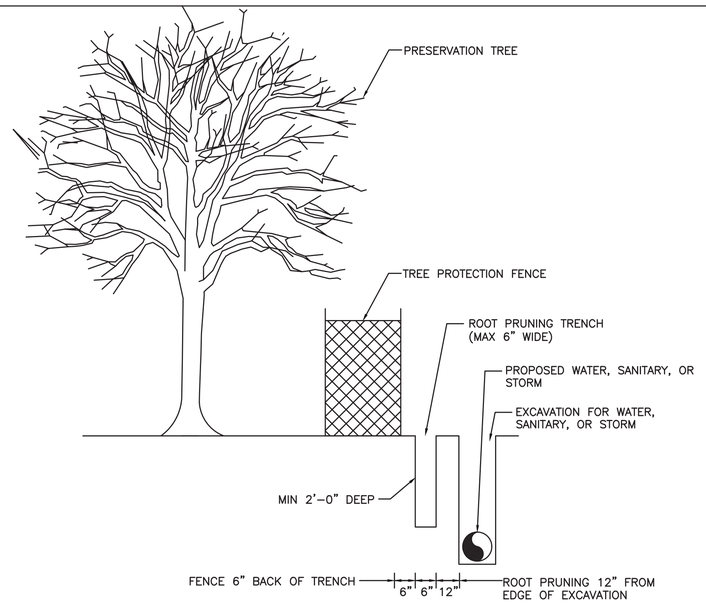
PAVING AND DRAINAGE IMPROVEMENTS IN ALIEF FOREST SOUTH AREA

TREE PROTECTION PLAN

SHEET 24 OF 25

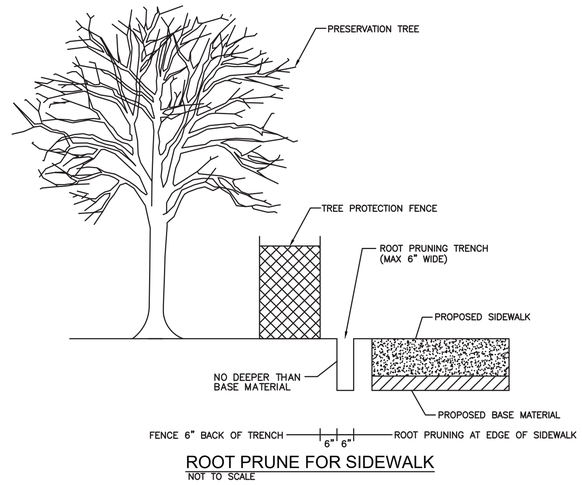
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DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 368 OF 369	

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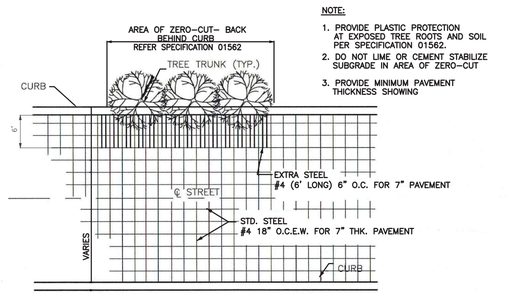
ROOT PRUNE FOR WATER, SANITARY, OR STORM LINE

NOT TO SCALE



ROOT PRUNE FOR SIDEWALK

NOT TO SCALE

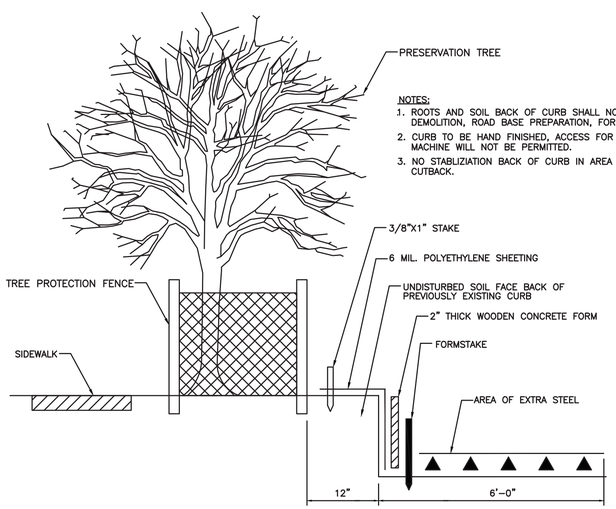


NOTE:

1. PROVIDE PLASTIC PROTECTION AT EXPOSED TREE ROOTS AND SOIL PER SPECIFICATION 01562.
2. DO NOT LIME OR CEMENT STABILIZE SUBGRADE IN AREA OF ZERO-CUT
3. PROVIDE MINIMUM PAVEMENT THICKNESS SHOWING

ZERO CURB CUTBACK DETAIL
EXTRA STEEL BEHIND CURB

NOT TO SCALE



NOTES:

1. ROOTS AND SOIL BACK OF CURB SHALL NOT BE DISTURBED IN DEMOLITION, ROAD BASE PREPARATION, FORMING, OR FINISHING.
2. CURB TO BE HAND FINISHED, ACCESS FOR SLIP CURB MACHINE WILL NOT BE PERMITTED.
3. NO STABLIZIATION BACK OF CURB IN AREA OF ZERO CURB CUTBACK.

ZERO CURB CUTBACK DETAIL-PROFILE VIEW

NOT TO SCALE

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CITY OF HOUSTON

HOUSTON PUBLIC WORKS

PAVING AND DRAINAGE IMPROVEMENTS IN ALIEF FOREST SOUTH AREA

TREE PROTECTION PLAN

SHEET 25 OF 25

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
N-210015-0001-3	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
ROBERT C. MILES, P.E., CCM, ENV SP	
SHEET NO. 369 OF 369	

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