

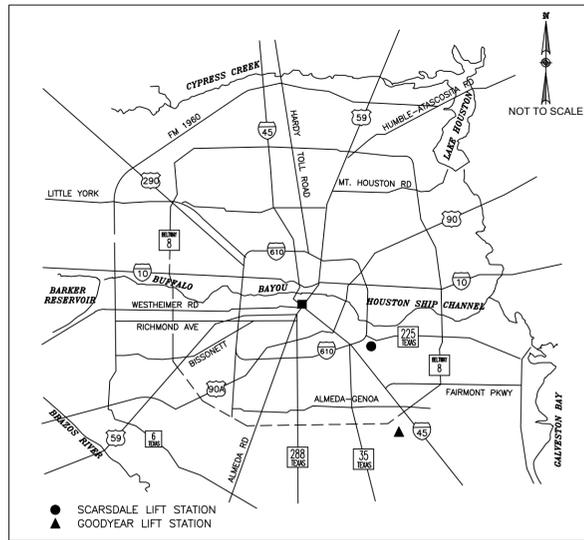
# CITY OF HOUSTON

## HOUSTON PUBLIC WORKS

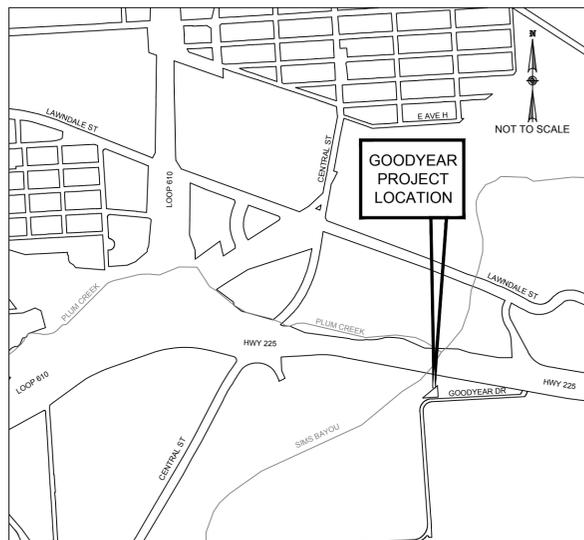
### CAPITAL PROJECTS

#### FORCE MAIN REHABILITATION AND RECONSTRUCTION - GOODYEAR AND SCARSDALE LIFT STATIONS

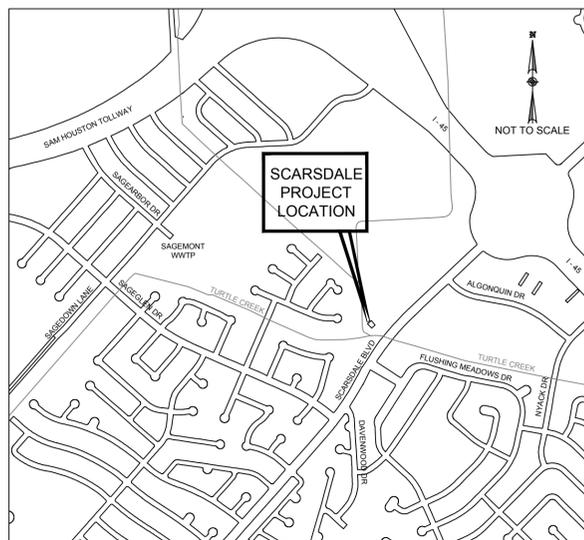
**60% Interim Review**



VICINITY MAP



LOCATION MAP  
KEY MAP NO 535G, 535H  
GIMS MAP NO ### X



LOCATION MAP  
KEY MAP NO 616D  
GIMS MAP NO ### X



MAYOR  
JOHN WHITMIRE

CONTROLLER  
CHRIS HOLLINS



TDLR EABPR \_\_\_\_\_

DISTRICT  
COUNCIL MEMBERS

- |                                |                                 |                                   |                                     |
|--------------------------------|---------------------------------|-----------------------------------|-------------------------------------|
| AMY PECK<br>DISTRICT A         | TARSHA JACKSON<br>DISTRICT B    | ABBIE KAMIN<br>DISTRICT C         | CAROLYN EVANS-SHABAZZ<br>DISTRICT D |
| FRED FLICKINGER<br>DISTRICT E  | TIFFANY D. THOMAS<br>DISTRICT F | MARY NAN HUFFMAN<br>DISTRICT G    | MARIO CASTILLO<br>DISTRICT H        |
| JOAQUIN MARTINEZ<br>DISTRICT I | EDWARD POLLARD<br>DISTRICT J    | MARTHA CASTEX-TATUM<br>DISTRICT K |                                     |

COUNCIL MEMBERS  
AT-LARGE

- |                              |                               |
|------------------------------|-------------------------------|
| JULIAN RAMIREZ<br>POSITION 1 | WILLIE DAVIS<br>POSITION 2    |
| TWILA CARTER<br>POSITION 3   | LETITIA PLUMMER<br>POSITION 4 |
| SALLIE ALCORN<br>POSITION 5  |                               |

		<p>ISSUED FOR INTERIM REVIEW ONLY</p> <p>THIS PLAN IS NOT COMPLETE AND IS NOT INTENDED FOR BIDDING, CONSTRUCTION, OR PERMIT PURPOSES.</p> <p>ENGINEER: JANICE C. NOELDNER TX. LICENSE No. 131967 ISSUED: February 2026</p>
<p>11450 COMPAQ CENTER WEST DRIVE, SUITE 660 HOUSTON, TEXAS 77070 • (281)350-7027 www.baxterwoodman.com • TBPELS FIRM No. F-21783</p>		
<p>SURVEYED BY: LANDTECH FB NO. #####</p>		
<p>_____</p> <p>PARKS-FORESTRY DEPT.</p>		
<p>_____</p> <p>METRO</p>		
<p>_____</p> <p>HOUSTON WATER</p>		
<p>_____</p> <p>TRANSPORTATION &amp; DRAINAGE OPERATIONS</p>		
<p>_____</p> <p>CAPITAL PROJECTS</p>	<p>_____</p> <p>SURVEY</p>	
<p>_____</p> <p>CITY ENGINEER                      DATE</p>		<p>FOR CITY OF HOUSTON USE ONLY</p>
<p>_____</p> <p>DIRECTOR OF HOUSTON PUBLIC WORKS                      DATE</p>		
<p>SHEET NO 1 OF 40 SHEETS</p>		

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 <p><b>BAXTER &amp; WOODMAN</b> Consulting Engineers</p> <p>11450 COMPAQ CENTER WEST DRIVE, SUITE 660 HOUSTON, TEXAS 77070 • (281)350-7027 www.baxterwoodman.com • TBPELS FIRM No. F-21783</p>	
<p>BAXTER &amp; WOODMAN 11450 COMPAQ CENTER WEST DR. SUITE 660 HOUSTON, TEXAS 77070 (281)350-7027 TBPELS FIRM No. F-21783</p>	<p><b>ISSUED FOR INTERIM REVIEW ONLY</b></p> <p>THIS PLAN IS NOT COMPLETE AND IS NOT INTENDED FOR BIDDING, CONSTRUCTION, OR PERMIT PURPOSES.</p>
<p>SURVEYED BY: LANDTECH FB NO. XXXX</p>	<p>ENGINEER: JANICE C. NOELDNER TX. LICENSE No. 131967 ISSUED: February 2026</p>
<p><b>CITY OF HOUSTON</b> HOUSTON PUBLIC WORKS</p> <p>CITY OF HOUSTON FORCE MAIN REHABILITATION AND RECONSTRUCTION -- GOODYEAR AND SCARSDALE LIFT STATIONS</p>	
<p><b>SHEET INDEX</b></p>	
<p>WBS NUMBER</p>	<p>FOR CITY OF HOUSTON USE ONLY</p>
<p>S-000100-0019</p>	
<p>DRAWING SCALE</p>	
<p>NTS</p>	
<p>CITY OF HOUSTON PM</p>	
<p>MARIA GEORGE, P.E.</p>	
<p>SHEET NO. 2 OF 40</p>	

**AT&T TEXAS/SWBT FACILITIES**

- 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.
- THE CONTRACTOR SHALL CALL 1-800-344-8377 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.
- 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.
- 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.
- 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.
- PLEASE CONTACT THE AT&T TEXAS DAMAGE PREVENTION MANAGER MR. ROOSEVELT LEE, JR. AT (713)567-4552 OR EMAIL HIM AT RL7259@ATT.COM, IF THERE ARE QUESTIONS ABOUT BORING OR EXCAVATING NEAR OUR AT&T/SWBT FACILITIES.

**CAUTION: UNDERGROUND GAS FACILITIES**

THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 1-800-545-6005 OR 911 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.

- WHEN CENTERPOINT ENERGY PIPE LINE 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)659-3552 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.

**STANDARD HCFCD NOTES FOR CONSTRUCTION DRAWINGS**

- OBTAIN AND COMPLY WITH ALL APPLICABLE CITY, COUNTY, STATE, AND FEDERAL PERMITS AND APPROVALS, WITH ASSISTANCE FROM ENGINEER, IF NECESSARY. OBTAIN PERMIT (CERTIFICATION) FROM HARRIS COUNTY ENGINEER TO ENTER HARRIS COUNTY FLOOD CONTROL DISTRICT RIGHT-OF-WAY.
- NOTIFY THE HARRIS COUNTY FLOOD CONTROL DISTRICT'S DEVELOPMENT COORDINATION AND INSPECTION SECTION IN WRITING AT LEAST 48 HOURS PRIOR TO CONSTRUCTION. SUBMIT THE HCFCD 48 HOUR PRE-CONSTRUCTION NOTIFICATION FORM, A COPY OF THE APPROVED CONSTRUCTION DRAWINGS, AND A COPY OF THE CORPS OF ENGINEERS INDIVIDUAL SECTION 404 PERMIT OR COMPLIANCE WITH NATIONWIDE PERMIT, IF APPLICABLE, TO HCFCD, 9900 NORTHWEST FREEMAN, HOUSTON, TEXAS 77092. ATTN: PROPERTY MANAGEMENT DEPT. BY HAND DELIVERY, BY EMAIL DCIS@hcfcd.org, OR FAX TO 713-684-4129 (FAX NUMBER).
- ENGINEER SHALL SUBMIT CERTIFICATION LETTER AND RECORD DRAWINGS TO THE HARRIS COUNTY FLOOD CONTROL DISTRICT'S DEVELOPMENT COORDINATION AND INSPECTION SECTION REQUESTING INSPECTION OF ITEMS CONSTRUCTED IN HARRIS COUNTY FLOOD CONTROL DISTRICT RIGHT-OF-WAY. PRIOR TO REQUESTING INSPECTION, THE DRAINAGE RIGHT-OF-WAY AND/OR EASEMENTS SHALL BE STAKED AND FLAGGED.
- PROTECT, MAINTAIN, AND RESTORE EXISTING BACKSLOPE DRAINAGE SYSTEMS.
- BACKSLOPE SWALE AND INTERCEPTOR STRUCTURE ELEVATIONS AND LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. FINAL ELEVATIONS AND LOCATIONS SHALL BE FIELD VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION.
- ESTABLISH TURF GRASS ON ALL DISTURBED AREAS WITHIN THE CHANNEL OR DETENTION RIGHT-OF-WAY, EXCEPT THE CHANNEL BOTTOM AND WHERE STRUCTURAL EROSION MEASURES ARE USED. MINIMUM ACCEPTANCE CRITERIA ARE 75% COVERAGE OF LIVE BERMUDA GRASS AND NO EROSION OR RILLS DEEPER THAN 4".
- PERFORM ALL ACTIVITIES WITHIN HARRIS COUNTY FLOOD CONTROL DISTRICT RIGHT OF WAY IN ACCORDANCE WITH THE MOST RECENT HARRIS COUNTY FLOOD CONTROL DISTRICT STANDARD SPECIFICATIONS BOOK.
- EXCAVATE CHANNEL FLOWLINE TO DESIGN ELEVATION AS SHOWN ON PLANS AND DOWNSTREAM, AS NECESSARY, TO ENSURE NO WATER IN THE FACILITY (STORM SEWER, LATERAL CHANNEL, OR DRY BOTTOM DETENSION BASIN) DURING NORMAL WATER SURFACE CONDITIONS IN THE CHANNEL, SO THE FACILITY WILL FUNCTION AS INTENDED. FOR WET BOTTOM DETENTION BASINS, ENSURE NO WATER IS ABOVE THE DESIGN LEVEL IN THE WET BOTTOM DURING NORMAL WATER SURFACE CONDITIONS IN THE CHANNEL.
- MAINTAIN FLOW IN CHANNEL DURING CONSTRUCTION AND RESTORE CHANNEL TO ORIGINAL CONDITION.
- REMOVE ALL EXCAVATED MATERIAL FROM THE HARRIS COUNTY FLOOD CONTROL DISTRICT OR DRAINAGE RIGHT-OF-WAY. NO FILL IS TO BE PLACED WITHIN A DESIGNATED FLOOD PLAIN AREA WITHOUT FIRST OBTAINING A FILL PERMIT FROM THE APPROPRIATE JURISDICTIONAL AUTHORITY.

**TXDOT SPECIAL PROVISIONS**

- THE TEXAS DEPARTMENT OF TRANSPORTATION (TXDOT) IS NOT A MEMBER OF 811. AT LEAST 72 HOURS BEFORE STARTING WORK, MAKE ARRANGEMENTS FOR LOCATION EXISTING TXDOT-OWNED ABOVE GROUND AND UNDERGROUND FIBER OPTIC, COMMUNICATIONS, POWER, ILLUMINATION, AND TRAFFIC SIGNAL CABLES AND CONDUIT. DO THIS BY CALLING TXDOT'S HOUSTON DISTRICT TRAFFIC SIGNAL OPERATIONS OFFICE AT 713-802-5662 TO SCHEDULE MARKING OF UNDERGROUND LINES ON THE GROUND. USE CAUTION IF WORKING IN THESE AREAS TO AVOID DAMAGING OR INTERFERING WITH EXISTING FACILITIES.
- NO DISCHARGES, SUCH AS EFFLUENT, PRODUCED GROUNDWATER, OR CHLORINATED FLUSH WATER, MAY BE DRAINED INTO STATE HIGHWAY STORM SEWER INFRASTRUCTURE, WITHOUT THE APPROVAL OF A SEPARATE AGREEMENT, CONTACT THE TXDOT HOUSTON DISTRICT PERMITS OFFICE AT (713) 802-5553, -5512, OR -5575 FOR ADDITIONAL INFORMATION. IN ADDITION, THE GRANTEE CERTIFIES THAT ITS STORM WATER RUNOFF TO THE STATE'S RIGHT-OF-WAY SHALL NOT BE CONTAMINATED BY ANY INDUSTRIAL PROCESSES OR SIGNIFICANT POLLUTANTS, AND THE STATE SHALL NOT BE HELD LIABLE FOR ANY POLLUTANTS ENTERING STATE RIGHT-OF-WAY THROUGH STORM WATER CONNECTIONS.
- ALL EXCAVATIONS WITHIN THE RIGHT-OF-WAY SHALL BE BACKFILLED ACCORDING TO THE TXDOT STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS, AND BRIDGES, ITEM 400, AS CURRENTLY AMENDED. ALL BACKFILL SHALL BE COMPACTED TO DENSITIES EQUAL TO THAT OF SURROUNDING SOIL. ALL SURPLUS MATERIAL SHALL BE REMOVED FROM THE RIGHT-OF-WAY, AND THE EXCAVATION FINISHED FLUSH WITH SURROUNDING NATURAL GROUND. ALL EXPOSED DIRT SURFACES SHALL BE SODDED, UNLESS OTHERWISE APPROVED BY THE TXDOT AREA ENGINEER. A SLOPE OF 4:1, OR FLATTER, SHALL BE REQUIRED ON THE DITCH FRONT SLOPE.
- ENCASEMENT SHALL BE STEEL AND SHALL EXTEND PAST THE TOP OF BACK SLOPE OF THE OUTERMOST DITCHES, OR FIVE FEET BEYOND THE BACK OF CURB.
- HIGHWAY CROSSINGS SHALL BE BORED OR TUNNELED. ANNULAR VOIDS BETWEEN THE BORE HOLE OR TUNNEL, AND THE CARRIER LINE OR ENCASEMENT, SHALL BE FILLED WITH A SLURRY GROUT OR FLOW-ABLE FILL, TO PREVENT SETTLEMENT OF ANY PART OF THE HIGHWAY.
- FLUIDS USED IN CONNECTION WITH BORING OPERATIONS SHALL ONLY BE ALLOWED IN SUFFICIENT QUANTITY TO LUBRICATE BORING PITS, OR TO PROVIDE A SMOOTH FLOW OF CUTTINGS. JETTING WILL NOT BE ALLOWED.
- ALL MANHOLE COVERS SHALL BE INSTALLED FLUSH WITH GROUND LEVEL.
- THE CONTRACTOR OR SUB-CONTRACTOR IS REQUIRED TO CONTACT THE TXDOT MAINTENANCE SUPERVISOR A MINIMUM OF 72 HOURS PRIOR TO COMMENCING ANY WORK.

TXDOT MAINTENANCE SUPERVISORS	OFFICE PHONE
HARRIS COUNTY, WEST	(713) 934-5900
TRAFFIC SIGNAL OPERATIONS	(713) 866-7101

**GENERAL NOTES- INSIDE CITY LIMITS**

- CONSTRUCT WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE AND STREET PAVING IN ACCORDANCE WITH THE LATEST EDITION OF THE PUBLICATIONS STANDARD CONSTRUCTION SPECIFICATIONS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE AND STREET PAVING, AND STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE, AND STREET PAVING PUBLISHED BY HOUSTON PUBLIC WORKS.
- THE GEOTECHNICAL INVESTIGATION FOR THIS PROJECT WAS CONDUCTED IN ACCORDANCE WITH CHAPTER 11 OF THE LATEST EDITION OF THE PUBLICATION INFRASTRUCTURE DESIGN MANUAL, PUBLISHED BY HOUSTON PUBLIC WORKS. SOILS REPORT WAS PREPARED BY [GEOTECHNICAL ENGINEERING FIRM] REPORT NO. [NO. OF REPORT], DATED [DATE OF REPORT].
- UTILITIES PRESENTED ON THESE DRAWINGS ARE SHOWN BASED ON THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS IN THE FIELD PRIOR TO COMMENCING CONSTRUCTION. CONTRACTOR SHALL NOTIFY TEXAS ONE CALL AT 713-223-4567/911 OR 800-344-8377 AND LONE STAR NOTIFICATION CENTER AT 800-669-8344 AT LEAST 48 HOURS BEFORE PROCEEDING WITH ANY EXCAVATION. UTILITIES MARKED WITHIN THE PUBLIC RIGHT OF WAY OR IN EASEMENTS SHALL COMPLY WITH TAC TITLE 16, PART 1, CHAPTER 18, RULE §18.6 AND THE AMERICAN PUBLIC WORKS ADMINISTRATION (APWA) UNIFORM COLOR CODE.
- CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGES TO EXISTING WATER, WASTEWATER, STORM WATER LINES AND TRAFFIC CONTROL DEVICES. DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH THE HOUSTON PUBLIC WORKS, STANDARD CONSTRUCTION SPECIFICATIONS FOR WASTEWATER COLLECTION SYSTEM, WATER LINES, STORM DRAINAGE, AND STREET PAVING AND STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE, AND STREET PAVING, REFERENCED ABOVE, AT NO ADDITIONAL COST.
- CONTRACTOR SHALL NOTIFY THE OFFICE OF THE CITY ENGINEER, HOUSTON PUBLIC WORKS @ 832-394-9098 OR VIA FAX AT 832-395-4424 FOR INSPECTION AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.
- ADEQUATE DRAINAGE SHALL BE MAINTAINED AT ALL TIMES DURING CONSTRUCTION AND ANY DRAINAGE DITCH OR STRUCTURE DISTURBED DURING CONSTRUCTION SHALL BE RESTORED TO EXISTING CONDITIONS OR BETTER.
- CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS, PLANTS AND TREES ALONG THE AREA OF EXCAVATION.
- CONTRACTOR SHALL COMPLY WITH LATEST EDITION OF OSHA REGULATIONS AND THE STATE OF TEXAS LAWS CONCERNING EXCAVATION.
- CONTRACTOR SHALL MAINTAIN A SET OF REDLINE DRAWINGS AND RECORD AS-BUILT CONDITIONS DURING CONSTRUCTION. THESE REDLINE MARKED UP DRAWINGS WILL BE SUBMITTED TO THE DESIGN CONSULTANT WHO WILL MAKE THE CHANGES ON THE ORIGINAL TRACINGS, LABEL EACH SHEET IN THE SET AS "RECORD DRAWINGS", AND RETURN IT TO THE OFFICE OF THE CITY ENGINEER.

**SANITARY SEWER NOTES**

- ALL SEWERS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF HOUSTON "STANDARD CONSTRUCTION SPECIFICATIONS FOR WASTEWATER COLLECTION SYSTEMS, WATER LINES, STORM DRAINAGE, STREET PAVING, AND TRAFFIC" AND ALL CURRENT AMENDMENTS THERETO AND BE SUBJECT TO A STANDARD EXFILTRATION TEST. TESTS ARE TO BE PERFORMED ON THE TOTAL FOOTAGE OF SEWER LINE INCLUDED IN THE PROJECT. REQUIREMENTS OF TEXAS ADMINISTRATIVE CODE, TITLE 30 CHAPTER 317, "DESIGN CRITERIA FOR SEWERAGE SYSTEMS" SHALL GOVERN WHERE CONFLICTS EXIST EXCEPT WHERE CITY REQUIREMENTS ARE MORE STRINGENT.
- ALL MANHOLES ARE TO BE PER CITY OF HOUSTON STANDARD DETAILS DRAWING NUMBERS 02082-01, 02082-02, 02082N-02, 02082-03, AND 02082N-03 UNLESS OTHERWISE NOTED. USE 2010 VERSION AS APPLICABLE.
- SANITARY SEWER MANHOLES WILL HAVE BEDDING AND BACKFILL PER CITY OF HOUSTON STANDARD DETAILS DRAWING NO. 02317-08 UNLESS OTHERWISE NOTED.
- THE SANITARY SEWER PVC PIPE SHALL BE ASTM D 3034 TYPE PSM SDR 26 GRAVITY SEWER PIPE, ASTM D2241 SDR 26 PRESSURE RATED SEWER PIPE OR AWWA C-900 DR-18 GREEN PVC PIPE PRESSURE RATED SEWER PIPE BASED ON CONSTRUCTION CONDITION REQUIREMENT AND CONFORMING TO ASTM D1784 AND CITY OF HOUSTON STANDARD SPECIFICATION SECTION 02506 POLYVINYL CHLORIDE PIPE.
- WHEN SS PRESSURE RATED PVC PIPE IS USED ON WATERLINE (WL) CROSSING UNDER CONDITION #1 OF CODE TABLE 7.3, THE SAME TYPE OF D2241 SDR 26 PVC PIPE OR C-900 GREEN DR-18 PVC PIPE PRESSURED TO BE UTILIZING IN-BETWEEN TWO SS MH'S. OR TO UTILIZE A DI TRANSITION ADAPTER FOR THE CONNECTING OF ASTM D-3034 PVC GRAVITY PIPE TO DI-OD AWWA C-900 PVC PIPE CENTERED AT WL WHEN CONNECTING TWO DIFFERENT TYPES OF PVC PIPES FOR SEWER CONSTRUCTION.
- AWWA C-900 DR-18 PVC PIPE USES EITHER AWWA C900 DR-18 PVC FITTINGS OR DIP FITTINGS.
- ALL SANITARY SEWER LINES UNDER PROPOSED OR FUTURE PAVEMENT AND TO A POINT ONE (1) FOOT BACK OF ALL PROPOSED OR FUTURE CURBS SHALL HAVE BEDDING PER CITY OF HOUSTON STANDARD DETAILS DRAWING NUMBERS 02317-01, 02317-02, OR 02317-03 AS APPLICABLE, WITH 1 ½ SACK CEMENT/CY STABILIZED SAND BACKFILL UP TO THE BOTTOM OF THE PAVEMENT SUBGRADE. 100 PSI PERFORMANCE RESULTS ARE STILL REQUIRED.
- ALL SANITARY SEWERS CROSSING WATER LINES WITH A CLEARANCE BETWEEN 12 INCHES AND 9 FEET SHALL HAVE A MINIMUM OF ONE 18' JOINT OF 150 PSI DUCTILE IRON OR (GREEN) C900 PVC PIPE MEETING ASTM SPECIFICATION D2241 CENTERED ON WATER LINE. WHEN WATER LINE IS BELOW SANITARY SEWER PROVIDE MINIMUM 2 FOOT SEPARATION.
- CONTRACTOR SHALL PROVIDE A MINIMUM HORIZONTAL CLEARANCE OF 9' FEET BETWEEN WATER LINES AND SANITARY SEWER MANHOLES AND LINES.
- SANITARY SEWER MANHOLE RIMS OUTSIDE OF PROPOSED PAVING WILL BE SET 3' - 6' ABOVE THE SURROUNDING LEVEL FINISHED GRADE AFTER PAVING WITH SLOPED BACKFILL ADDED FOR STORM WATER TO DRAIN AWAY FROM MANHOLE RIM.
- IN WET STABLE TRENCH AREAS USE BEDDING PER CITY OF HOUSTON STANDARD DETAILS DRAWING NUMBER 02317-02 (2002).
- DEFLECTION TEST: DEFLECTION TESTS SHALL BE PERFORMED ON ALL FLEXIBLE AND SEMI-RIGID SEWER PIPE. THE TEST SHALL BE CONDUCTED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE AT LEAST 30 DAYS. NO PIPE SHALL EXHIBIT A DEFLECTION OF 5% IF THE DEFLECTION TEST IS TO BE RUN USING A RIGID MANDREL, IT SHALL HAVE A DIAMETER EQUAL TO 95% OF THE INSIDE DIAMETER OF THE PIPE. THE TEST SHALL BE PERFORMED AS PER 30 TAC 317.2 LATEST AMENDMENT AND WITHOUT MECHANICAL PULLING DEVICES. NO BALL-TYPE MANDREL IS ALLOWED.
- INFILTRATION, EXFILTRATION OR LOW-PRESSURE AIR TEST: EITHER OF THE FOLLOWING TESTS SHALL BE PERFORMED AS PER TAC, TITLE 30 317.2 WITHIN THE SPECIFIED TOLERANCES ON ALL GRAVITY SEWERS.
  - INFILTRATION OR EXFILTRATION TEST: TOTAL LEAKAGE AS DETERMINED BY A HYDROSTATIC HEAD TEST SHALL NOT EXCEED 50 GALLONS PER INCH DIAMETER PER MILE OF PIPE PER 24 HOURS AT A MINIMUM TEST HEAD OF TWO (2) FEET.
  - LOW-PRESSURE AIR TEST: PERFORM TEST ACCORDING TO UNI-B-6-90 OR OTHER APPROPRIATE PROCEDURES. FOR SECTIONS OF PIPE LESS THAN 36" (INCH) AVERAGE INSIDE DIAMETER, THE MINIMUM ALLOWABLE TIME FOR PRESSURE DROP FROM 3.5 P.S.I.G. TO 2.5 P.S.I.G. SHALL BE AS FOLLOWS:
 

6" 340 SECONDS OR 0.855(L) FOR TEST LENGTHS GREATER THAN 398'
8" 454 SECONDS OR 1.520(L) FOR TEST LENGTHS GREATER THAN 298'
10" 567 SECONDS OR 2.374(L) FOR TEST LENGTHS GREATER THAN 239'
15" 850 SECONDS OR 5.342(L) FOR TEST LENGTHS GREATER THAN 159'
18" 1020 SECONDS OR 7.693(L) FOR TEST LENGTHS GREATER THAN 133'

 WHERE L = LENGTH OF LINE OF SAME PIPE SIZE IN FEET.
- "SAN. S. E." INDICATES "SANITARY SEWER EASEMENT".
- FOR SANITARY MANHOLE (MH) RIMS SET INSIDE OF OR @ CURB & GUTTER PAVEMENT AND/OR BELOW T.C., MH RIMS WILL BE SET FLUSHED WITH AN ADJUTING PAVED SURFACE. THE (VALCUN, NENAH OR EQUAL) HEAVY DUTY BOLTED SOLID MH COVER SHALL BE PROPERLY (AND SECURELY) ATTACHED AND SEALED TO ITS COMPATIBLE GASKETED FRAME BY USING BOTH A NEOPRENE GASKET AND (AT LEAST) 4 COUNTER-SUNK-HEAD CONCRETE THREE-HEAD ½"-1 ½" UNC STAINLESS STEEL BOLTS. THE HEAVY DUTY FRAME MH COVER SHALL BE SOLID (NO AIR HOLES). SAID FRAME SHALL BE BOTH EMBEDDED INTO THE MH'S TOP ALSO SECURELY ANCHORED TO THE UNDERLYING MH STRUCTURE WITH EITHER SECURELY ATTACHED EMBEDDED ANCHOR BOLTS OR THE CONCRETE MH'S EXPOSED REBARS WELDED TO THE FRAME OR OTHER EQUALLY SECURED METHODS TO PREVENT MH COVER/FRAME BLOW-OFFS/EJECTIONS.

**TRAFFIC NOTES**

- 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.
- NO WORK SHALL BE PERFORMED IN RESIDENTIAL AREAS FROM 7:00PM TO 7:00AM.
- 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.
- 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.
- 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.
- CONTRACTOR SHALL HAVE APPROVED TRAFFIC CONTROL PLAN AND PERMIT AT THE JOB SITE FOR INSPECTION AT ALL TIMES
- 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.
- 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.

**SWPPP NOTES**

- CONTRACTOR SHALL IMPLEMENT INLET PROTECTION DEVICES AND REINFORCED FILTER FABRIC BARRIER ALONG ROAD AND SIDE DITCHES AT LOCATIONS SHOWN ON THE TYPICAL STORM WATER POLLUTION PREVENTION (SWPP) PLANS TO KEEP SILT AND OR EXCAVATED MATERIALS FROM ENTERING INTO THE STORM WATER INLETS AND DITCHES EVENTUALLY POLLUTING THE RECEIVING STORM.
- DURING THE EXCAVATION PHASE OF THE PROJECT, CONTRACTOR SHALL SCHEDULE THE WORK IN SHORT SEGMENTS SO THAT EXCAVATION MATERIAL CAN BE QUICKLY HAULLED AWAY FROM THE SITE AND TO PREVENT IT FROM STAYING UNCOLLECTED ON THE EXISTING PAVEMENT. ANY LOOSE EXCAVATED MATERIAL WHICH FALLS ON PAVEMENTS OR DRIVEWAYS SHALL BE SWEEP BACK INTO THE EXCAVATED AREA.
- CONTRACTOR SHALL CLEAN UP THE EXISTING STREET INTERSECTIONS AND DRIVEWAYS DAILY, AS NECESSARY, TO REMOVE ANY EXCESS MUD, SILT OR ROCK TRACKED FORM THE EXCAVATED AREA.
- CONTRACTOR SHALL FOLLOW GOOD HOUSEKEEPING PRACTICES DURING THE CONSTRUCTION OF THE PROJECT, ALWAYS CLEANING UP DIRT AND LOOSE MATERIAL AS CONSTRUCTION PROGRESSES.
- CONTRACTOR TO INSPECT AND MAINTAIN THE AREAS LISTED BELOW AT LEAST ONCE EVERY FOURTEEN (14) CALENDAR DAYS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.
  - DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED.
  - AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION.
  - STRUCTURAL CONTROL MEASURES.
  - LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE.
- CONTRACTOR TO BE RESPONSIBLE TO MAINTAIN EXISTING DITCHES AND OR CULVERTS FOR UNOBSTRUCTED DRAINAGE AT ALL TIMES. WHERE SODDING IS DISTURBED BY EXCAVATION ON BACKFILLING OPERATIONS, SUCH AREAS SHALL BE REPLACED BY SEEDING OR SODDING. SLOPES 4:1 OR STEEPER SHALL BE REPLACED BY BLOCK SODDING.

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 TO 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.

AT&T TEXAS/SWBT UTILITY LINES SHOWN  
Date: \_\_\_\_\_

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



11450 COMPAQ CENTER WEST DRIVE, SUITE 660  
HOUSTON, TEXAS 77070 • (281)350-7027  
www.baxterwoodman.com • TPBELS FIRM No. F-21783

BAXTER & WOODMAN 11450 COMPAQ CENTER WEST DR. SUITE 660 HOUSTON, TEXAS 77070 (281)350-7027 TPBELS FIRM No. F-21783	<b>ISSUED FOR INTERIM REVIEW ONLY</b>  THIS PLAN IS NOT COMPLETE AND IS NOT INTENDED FOR BIDDING, CONSTRUCTION, OR PERMIT PURPOSES.  ENGINEER: JANICE C. NOELDNER TX LICENSE No. 131967 ISSUED: February 2026
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**CITY OF HOUSTON**  
HOUSTON PUBLIC WORKS

CITY OF HOUSTON  
FORCE MAIN REHABILITATION AND RECONSTRUCTION -  
GOODYEAR AND SCARSDALE LIFT STATIONS

<b>GENERAL NOTES</b>	
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
S-000100-0019	
DRAWING SCALE	
N/A	
CITY OF HOUSTON PM	
MARIA GEORGE, P.E.	
SHEET NO. 3 OF 40	



1. PROPERTY DESCRIPTION

I. LOCATION INFORMATION

A. HARRIS COUNTY COMMISSIONER'S PRECINCT:
B. KEY MAP: 616D
C. ADDRESS: 12501 SCARSDALE BOULEVARD, HOUSTON TEXAS 77089

II. LEGAL DESCRIPTION

A. ACREAGE:
B. SUBDIVISION:
C. ADJACENT ROADS: SCARSDALE BOULEVARD, GRAPEWOOD DR

N/A III. PLATTING

A. SUBDIVISION PLAT
B. STREETS PROPOSED
C. PLAT NAME:

IV. JURISDICTIONS

CITY OF HOUSTON
ETJ, CITY OF HOUSTON
NO ETJ
UTILITY DISTRICT (NAME)

V. HCAD ACCOUNT NOS. (ALL)

045-099-000-0008

5. WORK IN HCFCD RIGHT-OF-WAY

I. TYPE OF WORK TO BE PERFORMED IN HCFCD HCFC ROW

A. BOND/NOTIFICATION INFORMATION

HCFCD WATERSHED CLEAR CREEK
HCFCD UNIT No. A119-00-00
UTILITY CROSSING
ROADWAY BRIDGE/CULVERT CROSSING
REHABILITATION OF CHANNEL
TEMPORARY CROSSING
TRAIL (LENGTH)

COST OF WORK IN HCFCD ROW

II. USAGE ENVIRONMENTAL PERMIT

US ARMY CORPS OF ENGINEERS NATIONWIDE PERMIT NUMBER(S)
US ARMY CORPS OF ENGINEERS INDIVIDUAL PERMITS
NO PERMITS REQUIRED
WORK IS NOT BEING DONE IN NAVIGABLE WATERS

III. REFERENCE / BASIS OF DETERMINATION

ENVIRONMENTAL CONSULTANT REPORT BY HVJ ASSOCIATES, INC
REHABILITATION AND RECONSTRUCTION SCARSDALE LIFT STATION
REPORT DATE JULY 23, 2025

NOTES: I. - III. REQUIRED ON PROJECTS WITH WORK IN A HCFC CHANNEL. PLEASE REFERENCE SECTION 17 OF THE FLOOD CONTROL DISTRICT POLICY, CRITERIA, AND PROCEDURE MANUAL FOR MORE INFORMATION.

IV. HCFC STANDARD NOTES: SEE SHEET 3 OF THESE PLANS.

V. HCFC STANDARD DETAILS: SEE SHEET OF THESE PLANS.

VI. HCFC ACCESS PLAN: SEE SHEET OF THESE PLANS.

VII. REFER TO THE FOLLOWING PLAN SHEETS: FOR EXISTING AND PROPOSED RIGHT(S) OF WAY INCLUDING DELINEATION AND RECORDING INFORMATION PER HCFC POLICY, CRITERIA, & PROCEDURE MANUAL

2. SITE DETENTION DRAINAGE

N/A I. PROPOSED DRAINAGE AREA

NEW DEVELOPMENT AREA:
RE-DEVELOPMENT AREA (AMOUNT INCREASED IMPERVIOUS AREA):
LOW IMPACT DEVELOPMENT (LID) METHOD/DESCRIPTION

N/A II. METHODOLOGY

HCFC PCPM DETENTION METHOD USED:
METHOD 1 (LESS THAN 20 ACRES)
METHOD 2 (20 ACRES TO 640 ACRES)
METHOD 3 (GREATER THAN 640 ACRES)
OTHER

N/A III. DETENTION VOLUME & OUTFALL

OUTFALL TO:
.65, H.C.F.C.D. CHANNEL, (H.C.F.C.D. UNIT NO.)
.75, EXISTING STORM SEWER (OWNER & OPERATOR)
1.00, ROADSIDE DITCH, (OWNER & ROAD NAME)
OTHER (OWNER & OPERATOR)

N/A IV. STORMWATER DETENTION BASIN INFORMATION

A. HCFC PCPM SUMMARY TABLE SEE SHEET OF THESE PLANS.

Table with 4 columns: DETENTION BASIN SERVICE AREA, 50% EXCEEDANCE (2-YEAR), 10% EXCEEDANCE (10-YEAR), 1% EXCEEDANCE (100-YEAR). Rows include STORM EVENT, DESIGN WATER SURFACE ELEVATION, MINIMUM STORAGE REQUIRED, DETENTION STORAGE PROVIDED, STORAGE RATE PROVIDED, OUTFLOW VELOCITY INTO CHANNEL, DRAIN TIME.

B. DETENTION BASIN TO BE MAINTAINED BY
C. DETENTION SERVICE AREA MAP ON SHEET
D. ADDITIONAL CRITERIA FOR PUMPED DETENTION BASINS
VOLUME OF PUMPED 1% EXCEEDANCE STORAGE VOLUME = ACFT % OF TOTAL VOLUME
MAXIMUM DESIGN OUTFLOW VELOCITY INTO HCFC CHANNEL = FT/SEC
DRAIN TIME FOR BASIN = HOURS BASED ON HEAD CONDITIONS

N/A V. DETENTION PROVIDED IN OTHER PLANS:

HCFC PROJECT No. DATE SIGNED BY HCFC:
PLAN TITLE
DETENTION POND SERVICE AREA MAP IS PROVIDED ON SHEET
ENGINEERING FIRM
DETENTION BASIN MAINTAINED BY:

N/A VI. FLOW RESTRICTOR SIZE

OUTFALL PIPE SIZE:
RESTRICTOR PIPE SIZE:
RESTRICTOR PLATE DIMENSION:

N/A VII. DETENTION PROVIDED BY

REGIONAL DETENTION BASIN SYSTEM (APPROVED H.C. PRJ NO.):

FOR PROJECTS LOCATED IN ANY FLOODPLAIN
Development constructed or placed in accordance with these plans will comply with all provisions of the designated Floodplain Administrator.
No net fill is allowed in the flood plain and no fill is allowed in the floodway.

OFFSITE SHEET FLOW: (100 YEAR)

OFFSITE SHEET FLOW MAPPING, TOTAL DISCHARGE CALCULATIONS, AND DESIGN ACCOMMODATIONS ARE SHOWN ON SHEET OR, AS PRESENTED IN THE APPROVED DRAINAGE STUDY ENTITLED

TOTAL ACREAGE =
TOTAL DISCHARGE =

NOTE: ALL OFFSITE SHEET FLOW FROM ADJACENT PROPERTIES MUST BE IDENTIFIED AND PROPERLY ACCOUNTED FOR IN THE PROJECT. THE SIGNING ENGINEER HEREBY CERTIFIES THAT THESE AREAS HAVE BEEN ADDRESSED.

3. SWQ DISCHARGE INTO FCD FACILITY

I. SWPPP: CONSTRUCTION MEASURES. (Must complete)

DISTURBS >1AC. SITE PLAN & DETAILS ON SHEET(S)
DISTURBS <1AC. N/A

\*II. APPLICABILITY FOR PERMANENT FEATURES. (Must complete)

EXEMPT NEW DEVELOPMENT:
PROJECT IS ON A PARCEL (A COMMON PLAN OF DEVELOPMENT) LESS THAN 5 ACRES. (Must be verified with plat)
EXEMPT REDEVELOPMENT:
PROJECT DOES NOT MEET THE DEFINITION OF SIGNIFICANT REDEVELOPMENT (Part A,Sec. 2.39 of Regulations of Harris County, Texas for Stormwater Quality Management)

EXEMPT GRANDFATHERED:

PROJECT'S DRAINAGE TIES DIRECTLY INTO AN EXISTING DRAINAGE SYSTEM PRIOR TO OCTOBER 1, 2001. (FOR VERIFICATION: PROVIDE ORIGINAL DRAINAGE AREA MAP INCLUDING CALCULATIONS)

GENERAL:

PROJECT'S SWQ REQUIREMENTS FALL WITHIN THE JURISDICTION OF:
STORMWATER QUALITY PERMIT REQUIREMENT IS COVERED BY AN EXISTING SWQP WITHIN PROJECT TITLE:

HARRIS COUNTY PROJECT No & SWQ PERMIT No.

STORMWATER QUALITY MANAGEMENT PLAN:

SITE PLAN ON SHEET(S)

N/A III. PERMANENT SWQ FEATURES. (COMPLETE IF NOT EXEMPT)

VEGETATIVE CONTROLS USED: (FILTER STRIP, GRASSY SWALE, URBAN FORESTRY DETAILS AND CALCULATIONS APPEAR ON SHEET(S))
POND STRUCTURE USED (WET, DRY, WETLANDS) DETAILS AND CALCULATIONS APPEAR ON SHEET(S)
HYDRODYNAMIC TYPE SEPARATOR MODEL:
OTHER(S):

6. REPORTS/AGREEMENTS

I. HCFC ACCEPTED REPORTS (ALL)

STORMWATER DRAINAGE DESIGN REPORT
REPORT TITLE
HCFC PROJECT #
ENGINEERING FIRM
REPORT ACCEPTANCE DATE
GEOTECHNICAL INVESTIGATION REPORT
REPORT TITLE
HCFC PROJECT #
ENGINEERING FIRM
REPORT ACCEPTANCE DATE
HCFC APPROVED VARIANCE
DESCRIPTION OF VARIANCE
DOCUMENT ID #
VARIANCE ACCEPTANCE DATE

II. AGREEMENT TYPE & No.:

INTERLOCAL (ILA):
HCFC MAINTENANCE
TURF ESTABLISHMENT
OTHER

4. FLOOD PLAIN STATUS

I. GENERAL INFORMATION

FIRM PANEL(S) FOR PROPERTY: 48201C1055L
FIRM PANEL(S) DATE: 06/18/2007
STATUS OF PROPERTY ON MAP
ENTIRELY LOCATED IN UNSHADED ZONE "X"
LOCATED PARTIALLY OR ENTIRELY IN ANY "A" ZONE OR SHADED ZONE "X", DELINEATE FLOODPLAIN BOUNDARY ON CONSTRUCTION DRAWINGS. (DRAINAGE LAYOUT PG. NO. (1% BASE FLOOD LEVEL 30.4) (0.2% BASE FLOOD LEVEL 33.2))
SITE REMOVED FROM FLOODPLAIN BY LOMR, LOMR-F, LOMA CASE NO. REVISED FLOODPLAIN IS SHOWN ON SHEET
ELEVATION INFORMATION
BENCHMARK USED
HARRIS COUNTY FLOODPLAIN REFERENCE MARK
HARRIS-GALVESTON COASTAL SUBSIDENCE DISTRICT BENCHMARK (FOR COASTAL AREAS)
DESCRIPTION OF BENCHMARK INCLUDING ELEVATION, DATUM AND YEAR OF ADJUSTMENT (2001 ADJ.) #010450 IN CLEAR CREEK WATERSHED ELEVATION: 29.12, 2001 ADJ

II. FLOOD PLAIN DETERMINATION BASED ON GROUND ELEVATION

PROPERTY LIES ENTIRELY ABOVE THE BASE FLOOD LEVEL AND IN SHADED ZONE "X"
PROPERTY LIES PARTIALLY OR ENTIRELY BELOW THE BASE FLOOD LEVEL

N/A III. FLOODPLAIN STORAGE SUMMARY

(APPLIES ONLY TO PORTION OF LAND LOCATED WITHIN FEMA REGULATORY FLOODPLAIN).
TOTAL VOLUME OF MATERIAL PROPOSED TO BE MOVED OR PLACED WITHIN THE FIRM DELINEATED FLOODPLAIN (FILL, BASE, CONCRETE, ASPHALT, ETC.): BELOW 0.2% BASE FLOOD ELEVATION (2001 ADJ.) CUBIC YARDS
TOTAL VOLUME OF MATERIAL PROPOSED TO BE REMOVED FROM THE FIRM DELINEATED FLOODPLAIN: BELOW 0.2% BASE FLOOD ELEVATION (2001 ADJ.) CUBIC YARDS INCLUDING CALCULATIONS
FILL AREA & VOLUME CALCULATIONS ARE SHOWN ON SHEET

HCFC SIGNATURE BLOCK

FORCE MAIN REHABILITATION AND RECONSTRUCTION -
PROJECT NAME: GOODYEAR AND SCARSDALE LIFT STATIONS

ADDRESS: 12501 SCARSDALE BOULEVARD, HOUSTON, TEXAS 77089

WAS ACCEPTED BY HARRIS COUNTY FLOOD CONTROL DISTRICT FOR THE PURPOSES LISTED BELOW:

HARRIS COUNTY FLOOD CONTROL DISTRICT

INTERPOSE NO OBJECTION
BY FOR ITEMS LOCATED OUTSIDE OF HCFC RIGHT-OF-WAY
APPROVED:
BY FOR ITEMS LOCATED WITHIN EXISTING HCFC RIGHT-OF-WAY
APPROVED:
BY FOR ITEMS LOCATED WITHIN PROPOSED HCFC RIGHT-OF-WAY
NO REVIEW REQUIRED:
BY FINAL PERMITTING BY OTHERS

ADDITIONAL COMMENTS:

THE PROJECT WAS REVIEWED, HOWEVER, THIS DOES NOT MEAN THE ENTIRE PROJECT, INCLUDING ALL SUPPORTING DATA AND CALCULATIONS HAVE BEEN COMPLETELY CHECKED AND VERIFIED. THESE DRAWINGS ARE SIGNED, DATED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS, WHICH THEREFORE CONVEYS THE ENGINEER'S RESPONSIBILITY AND ACCOUNTABILITY. THIS DOES NOT RELIEVE ANY PARTY FROM COMPLYING WITH APPROPRIATE FEDERAL, STATE AND LOCAL ENVIRONMENTAL RULES, LAWS, AND REGULATIONS AND ANY OTHER LEGALLY ADOPTED REGULATION OR ORDINANCE RELATED TO LAND DEVELOPMENT. IF THE CITY SIGNATURES ARE REQUIRED BY ORDINANCE, COUNTY PERMITS WILL NOT BE ISSUED UNTIL SUCH SIGNATURES ARE OBTAINED. PLAN APPROVAL EXPIRATION TO BE IN ACCORDANCE WITH LOCAL GOVERNMENT CODE CH. 245.

ENGINEER'S CERTIFICATION

JANICE C. NOELDNER, A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, DO HEREBY CERTIFY THAT THE INFORMATION PRESENTED ON THIS SHEET IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND THAT I AM NOT VIOLATING ANY PROVISION OF THE CURRENT TEXAS ENGINEERING PRACTICE ACT AND RULES CONCERNING THE PRACTICE OF ENGINEERING AND PROFESSIONAL ENGINEERING LICENSURE.

ANY VIOLATIONS WILL BE FORWARDED TO THE HARRIS COUNTY DISTRICT ATTORNEY'S OFFICE FOR PROSECUTION.

THE COMPLETED PROJECT CONSISTS OF DRAWING SHEETS 1 THRU 40 SEAL

SIGNATURE DATE

REVISIONS

NOTE: REVISION BLOCK IS TO BE USED ONLY FOR CHANGES MADE AFTER PLANS HAVE BEEN APPROVED BY HARRIS COUNTY FLOOD CONTROL.

Table with 5 columns: DATE, SHEET NO., DESCRIPTION, P.E. INITIAL, H.C.F.C.D APPROVED DATE. Includes B&W JOB# 2326078.00, HARRIS COUNTY FLOOD CONTROL PROJECT NO. XXXXXXXXXX, SHEET NUMBER 5 OF 40.

ISSUED FOR INTERIM REVIEW ONLY

THIS PLAN IS NOT COMPLETE AND IS NOT INTENDED FOR BIDDING, CONSTRUCTION, OR PERMIT PURPOSES.

ENGINEER: JANICE C. NOELDNER
TX. LICENSE No. 131967
ISSUED: February 2026

HARRIS COUNTY FLOOD CONTROL DISTRICT REVIEW SHEET

P:\HOU\SC\2326078-Force Main Rehab and CAD\01\_Civil\_3D\01\_Shts-Plans\05-HARRIS\_FC\_REVIEW-SCARSDALE.dwg, 2/9/2026 11:03:51 AM, Bob Juliano

1. PROPERTY DESCRIPTION

I. LOCATION INFORMATION

A. HARRIS COUNTY COMMISSIONER'S PRECINCT:
1 2 3 4
B. KEY MAP: 535G, 535H
C. ADDRESS: 9850 1/2 GOODYEAR DR., HOUSTON TEXAS 77017

II. LEGAL DESCRIPTION

A. ACREAGE:
B. SUBDIVISION:
C. ADJACENT ROADS: GOODYEAR DR, STATE HWY 225

N/A III. PLATTING

A. SUBDIVISION PLAT
B. STREETS PROPOSED
C. ADJACENT ROADS: GOODYEAR DR, STATE HWY 225

IV. JURISDICTIONS

CITY OF HOUSTON
ETJ, CITY OF HOUSTON
NO ETJ
UTILITY DISTRICT (NAME)

V. HCAD ACCOUNT NOS. (ALL)

040199000013
040197000022
040197000039

5. WORK IN HCFCD RIGHT-OF-WAY

I. TYPE OF WORK TO BE PERFORMED IN HCFCD HCFC ROW

A. BOND/NOTIFICATION INFORMATION
BOND/NOTIFICATION INFORMATION
UTILITY CROSSING
ROADWAY BRIDGE/CULVERT CROSSING
REHABILITATION OF CHANNEL
TEMPORARY CROSSING
TRAIL (LENGTH)
OTHER

II. USACE ENVIRONMENTAL PERMIT

US ARMY CORPS OF ENGINEERS NATIONWIDE PERMIT NUMBER(S) 58
US ARMY CORPS OF ENGINEERS INDIVIDUAL PERMITS
OTHER
NO PERMITS REQUIRED EXPLAIN:

III. REFERENCE / BASIS OF DETERMINATION

ENVIRONMENTAL CONSULTANT REPORT BY HVJ ASSOCIATES, INC
PHASE I ENVIRONMENTAL SITE ASSESSMENT REPORT FORCE MAIN REHABILITATION AND RECONSTRUCTION SCARSDALE LIFT STATION
REPORT DATE JULY 23, 2025

NOTES:
I. - III. REQUIRED ON PROJECTS WITH WORK IN A HCFC CHANNEL. PLEASE REFERENCE SECTION 17 OF THE FLOOD CONTROL DISTRICT POLICY, CRITERIA, AND PROCEDURE MANUAL FOR MORE INFORMATION.

IV. HCFC STANDARD NOTES: SEE SHEET 3 OF THESE PLANS.

V. HCFC STANDARD DETAILS: SEE SHEET OF THESE PLANS.

N/A VI. HCFC ACCESS PLAN: SEE SHEET OF THESE PLANS.

VII. REFER TO THE FOLLOWING PLAN SHEETS:
FOR EXISTING AND PROPOSED RIGHT(S) OF WAY INCLUDING DELINEATION AND RECORDING INFORMATION PER HCFC POLICY, CRITERIA, & PROCEDURE MANUAL (i.e., DRAINAGE EASEMENT, FEE STRIP, ETC.) AND GRANTEE (e.g. COH, HCFC, PUBLIC, TXDOT, ETC.)

2. SITE DETENTION DRAINAGE

N/A I. PROPOSED DRAINAGE AREA

NEW DEVELOPMENT AREA:
RE-DEVELOPMENT AREA (AMOUNT INCREASED IMPERVIOUS AREA):
LOW IMPACT DEVELOPMENT (LID) METHOD/DESCRIPTION

N/A II. METHODOLOGY

HCFC PCPM DETENTION METHOD USED:
METHOD 1 (LESS THAN 20 ACRES)
METHOD 2 (20 ACRES TO 640 ACRES)
METHOD 3 (GREATER THAN 640 ACRES)
OTHER

N/A III. DETENTION VOLUME & OUTFALL

OUTFALL TO:
.65, H.C.F.C.D. CHANNEL, (H.C.F.C.D. UNIT NO.)
.75, EXISTING STORM SEWER (OWNER & OPERATOR)
1.00, ROADSIDE DITCH, (OWNER & ROAD NAME)
OTHER (OWNER & OPERATOR)

N/A IV. STORMWATER DETENTION BASIN INFORMATION

A. HCFC PCPM SUMMARY TABLE SEE SHEET OF THESE PLANS.

Table with 4 columns: DETENTION BASIN SERVICE AREA, 50% EXCEEDANCE (2-YEAR), 10% EXCEEDANCE (10-YEAR), 1% EXCEEDANCE (100-YEAR). Rows include STORM EVENT, DESIGN WATER SURFACE ELEVATION, MINIMUM STORAGE REQUIRED, DETENTION STORAGE PROVIDED, STORAGE RATE PROVIDED, OUTFLOW VELOCITY INTO CHANNEL, DRAIN TIME, EMERGENCY OVERFLOW.

B. DETENTION BASIN TO BE MAINTAINED BY
C. DETENTION SERVICE AREA MAP ON SHEET
D. ADDITIONAL CRITERIA FOR PUMPED DETENTION BASINS
VOLUME OF PUMPED 1% EXCEEDANCE STORAGE VOLUME = ACFT % OF TOTAL VOLUME
MAXIMUM DESIGN OUTFLOW VELOCITY INTO HCFC CHANNEL = FT/SEC
DRAIN TIME FOR BASIN = HOURS BASED ON HEAD CONDITIONS

N/A V. DETENTION PROVIDED IN OTHER PLANS:

HCFC PROJECT No. DATE SIGNED BY HCFC:
PLAN TITLE
DETENTION POND SERVICE AREA MAP IS PROVIDED ON SHEET
ENGINEERING FIRM
DETENTION BASIN MAINTAINED BY:

N/A VI. FLOW RESTRICTOR SIZE

OUTFALL PIPE SIZE:
RESTRICTOR PIPE SIZE:
RESTRICTOR PLATE DIMENSION:

N/A VII. DETENTION PROVIDED BY

REGIONAL DETENTION BASIN SYSTEM (APPROVED H.C. PRJ NO.):

FOR PROJECTS LOCATED IN ANY FLOODPLAIN
Development constructed or placed in accordance with these plans will comply with all provisions of the designated Floodplain Administrator.
No net fill is allowed in the flood plain and no fill is allowed in the floodway.

OFFSITE SHEET FLOW: (100 YEAR)

OFFSITE SHEET FLOW MAPPING, TOTAL DISCHARGE CALCULATIONS, AND DESIGN ACCOMMODATIONS ARE SHOWN ON SHEET OR, AS PRESENTED IN THE APPROVED DRAINAGE STUDY ENTITLED

TOTAL ACREAGE =
TOTAL DISCHARGE =

NOTE: ALL OFFSITE SHEET FLOW FROM ADJACENT PROPERTIES MUST BE IDENTIFIED AND PROPERLY ACCOUNTED FOR IN THE PROJECT. THE SIGNING ENGINEER HEREBY CERTIFIES THAT THESE AREAS HAVE BEEN ADDRESSED.

3. SWQ DISCHARGE INTO FCD FACILITY

I. SWPPP: CONSTRUCTION MEASURES. (Must complete)

DISTURBS >1AC. SITE PLAN & DETAILS ON SHEET(S)
DISTURBS <1AC. N/A

N/A \*II. APPLICABILITY FOR PERMANENT FEATURES. (Must complete)

EXEMPT NEW DEVELOPMENT:
PROJECT IS ON A PARCEL (A COMMON PLAN OF DEVELOPMENT) LESS THAN 5 ACRES. (Must be verified with plat)

EXEMPT REDEVELOPMENT:
PROJECT DOES NOT MEET THE DEFINITION OF SIGNIFICANT REDEVELOPMENT (Part A,Sec. 2.39 of Regulations of Harris County, Texas for Stormwater Quality Management)

EXEMPT GRANDFATHERED:
PROJECT'S DRAINAGE TIES DIRECTLY INTO AN EXISTING DRAINAGE SYSTEM PRIOR TO OCTOBER 1, 2001. (FOR VERIFICATION: PROVIDE ORIGINAL DRAINAGE AREA MAP INCLUDING CALCULATIONS)

GENERAL:
PROJECT'S SWQ REQUIREMENTS FALL WITHIN THE JURISDICTION OF:

STORMWATER QUALITY PERMIT REQUIREMENT IS COVERED BY AN EXISTING SWQP WITHIN PROJECT TITLE:

HARRIS COUNTY PROJECT No & SWQ PERMIT No.

STORMWATER QUALITY MANAGEMENT PLAN:
SITE PLAN ON SHEET(S)

N/A III. PERMANENT SWQ FEATURES. (COMPLETE IF NOT EXEMPT)

VEGETATIVE CONTROLS USED: (FILTER STRIP, GRASSY SWALE, URBAN FORESTRY DETAILS AND CALCULATIONS APPEAR ON SHEET(S))
POND STRUCTURE USED (WET, DRY, WETLANDS) DETAILS AND CALCULATIONS APPEAR ON SHEET(S)
HYDRODYNAMIC TYPE SEPARATOR MODEL:
OTHER(S):

6. REPORTS/AGREEMENTS

I. HCFC ACCEPTED REPORTS (ALL)

STORMWATER DRAINAGE DESIGN REPORT
REPORT TITLE
HCFC PROJECT #
ENGINEERING FIRM
REPORT ACCEPTANCE DATE
GEOTECHNICAL INVESTIGATION REPORT
REPORT TITLE
HCFC PROJECT #
ENGINEERING FIRM
REPORT ACCEPTANCE DATE
HCFC APPROVED VARIANCE
DESCRIPTION OF VARIANCE
DOCUMENT ID #
VARIANCE ACCEPTANCE DATE

II. AGREEMENT TYPE & No.:

INTERLOCAL (ILA):
HCFC MAINTENANCE
TURF ESTABLISHMENT
OTHER

4. FLOOD PLAIN STATUS

I. GENERAL INFORMATION

FIRM PANEL(S) FOR PROPERTY: 48201C0885N
FIRM PANEL(S) DATE: 05/02/2019
STATUS OF PROPERTY ON MAP
ENTIRELY LOCATED IN UNSHADED ZONE "X"
LOCATED PARTIALLY OR ENTIRELY IN ANY "A" ZONE OR SHADED ZONE "X", DELINEATE FLOODPLAIN BOUNDARY ON CONSTRUCTION DRAWINGS (DRAINAGE LAYOUT PG. NO. (1% BASE FLOOD LEVEL 9.5) (0.2% BASE FLOOD LEVEL 15.5))
SITE REMOVED FROM FLOODPLAIN BY LOMR, LOMR-F, LOMA CASE NO. REVISED FLOODPLAIN IS SHOWN ON SHEET
ELEVATION INFORMATION BENCHMARK USED
HARRIS COUNTY FLOODPLAIN REFERENCE MARK
HARRIS-GALVESTON COASTAL SUBSIDENCE DISTRICT BENCHMARK (FOR COASTAL AREAS)
DESCRIPTION OF BENCHMARK INCLUDING ELEVATION, DATUM AND YEAR OF ADJUSTMENT (2001 ADJ.)

II. FLOOD PLAIN DETERMINATION BASED ON GROUND ELEVATION

PROPERTY LIES ENTIRELY ABOVE THE BASE FLOOD LEVEL AND IN SHADED ZONE "X"
PROPERTY LIES PARTIALLY OR ENTIRELY BELOW THE BASE FLOOD LEVEL

N/A III. FLOODPLAIN STORAGE SUMMARY

(APPLIES ONLY TO PORTION OF LAND LOCATED WITHIN FEMA REGULATORY FLOODPLAIN).
TOTAL VOLUME OF MATERIAL PROPOSED TO BE MOVED OR PLACED WITHIN THE FIRM DELINEATED FLOODPLAIN (FILL, BASE, CONCRETE, ASPHALT, ETC.): BELOW 0.2% BASE FLOOD ELEVATION (2001 ADJ.) CUBIC YARDS
TOTAL VOLUME OF MATERIAL PROPOSED TO BE REMOVED FROM THE FIRM DELINEATED FLOODPLAIN: BELOW 0.2% BASE FLOOD ELEVATION (2001 ADJ.) CUBIC YARDS INCLUDING CALCULATIONS
FILL AREA & VOLUME CALCULATIONS ARE SHOWN ON SHEET

HCFCD SIGNATURE BLOCK
FORCE MAIN REHABILITATION AND RECONSTRUCTION - GOODYEAR AND SCARSDALE LIFT STATIONS
PROJECT NAME:
ADDRESS: 9850 1/2 GOODYEAR DRIVE, HOUSTON, TEXAS 77017
WAS ACCEPTED BY HARRIS COUNTY FLOOD CONTROL DISTRICT FOR THE PURPOSES LISTED BELOW:
HARRIS COUNTY FLOOD CONTROL DISTRICT
INTERPOSE NO OBJECTION
BY: FOR ITEMS LOCATED OUTSIDE OF HCFC RIGHT-OF-WAY
APPROVED:
BY: FOR ITEMS LOCATED WITHIN EXISTING HCFC RIGHT-OF-WAY
APPROVED:
BY: FOR ITEMS LOCATED WITHIN PROPOSED HCFC RIGHT-OF-WAY
NO REVIEW REQUIRED:
BY: FINAL PERMITTING BY OTHERS
ADDITIONAL COMMENTS:

THE PROJECT WAS REVIEWED, HOWEVER, THIS DOES NOT MEAN THE ENTIRE PROJECT, INCLUDING ALL SUPPORTING DATA AND CALCULATIONS HAVE BEEN COMPLETELY CHECKED AND VERIFIED. THESE DRAWINGS ARE SIGNED, DATED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED TO PRACTICE IN THE STATE OF TEXAS, WHICH THEREFORE CONVEYS THE ENGINEER'S RESPONSIBILITY AND ACCOUNTABILITY. THIS DOES NOT RELIEVE ANY PARTY FROM COMPLYING WITH APPROPRIATE FEDERAL, STATE AND LOCAL ENVIRONMENTAL RULES, LAWS, AND REGULATIONS AND ANY OTHER LEGALLY ADOPTED REGULATION OR ORDINANCE RELATED TO LAND DEVELOPMENT. IF THE CITY SIGNATURES ARE REQUIRED BY ORDINANCE, COUNTY PERMITS WILL NOT BE ISSUED UNTIL SUCH SIGNATURES ARE OBTAINED. PLAN APPROVAL EXPIRATION TO BE IN ACCORDANCE WITH LOCAL GOVERNMENT CODE CH. 245.

ENGINEER'S CERTIFICATION
I, JANICE C. NOELDNER, A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF TEXAS, DO HEREBY CERTIFY THAT THE INFORMATION PRESENTED ON THIS SHEET IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND THAT I AM NOT VIOLATING ANY PROVISION OF THE CURRENT TEXAS ENGINEERING PRACTICE ACT AND RULES CONCERNING THE PRACTICE OF ENGINEERING AND PROFESSIONAL ENGINEERING LICENSURE.

ANY VIOLATIONS WILL BE FORWARDED TO THE HARRIS COUNTY DISTRICT ATTORNEY'S OFFICE FOR PROSECUTION.
THE COMPLETED PROJECT CONSISTS OF DRAWING SHEETS 1 THRU 40 SEAL

SIGNATURE DATE

REVISIONS
NOTE: REVISION BLOCK IS TO BE USED ONLY FOR CHANGES MADE AFTER PLANS HAVE BEEN APPROVED BY HARRIS COUNTY FLOOD CONTROL.

Table with 5 columns: DATE, SHEET NO., DESCRIPTION, P.E. INITIAL, H.C.F.C.D APPROVED DATE. Includes B&W JOB# 2326078.00, HARRIS COUNTY FLOOD CONTROL PROJECT NO. XXXXXXXXXX, SHEET NUMBER 6 OF 40.

HARRIS COUNTY FLOOD CONTROL DISTRICT REVIEW SHEET

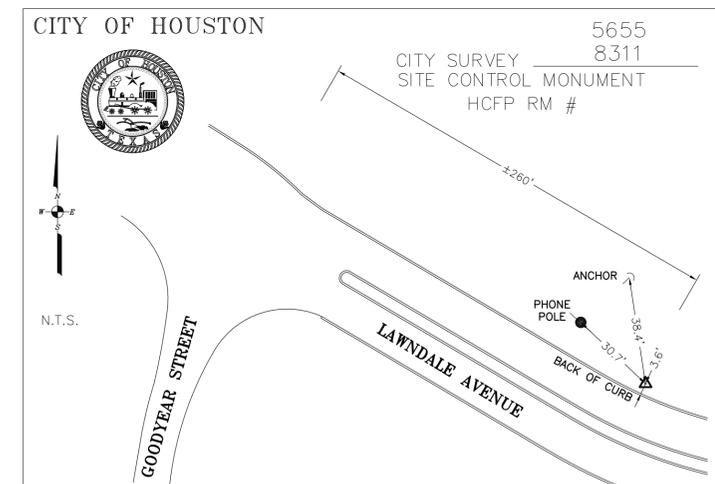
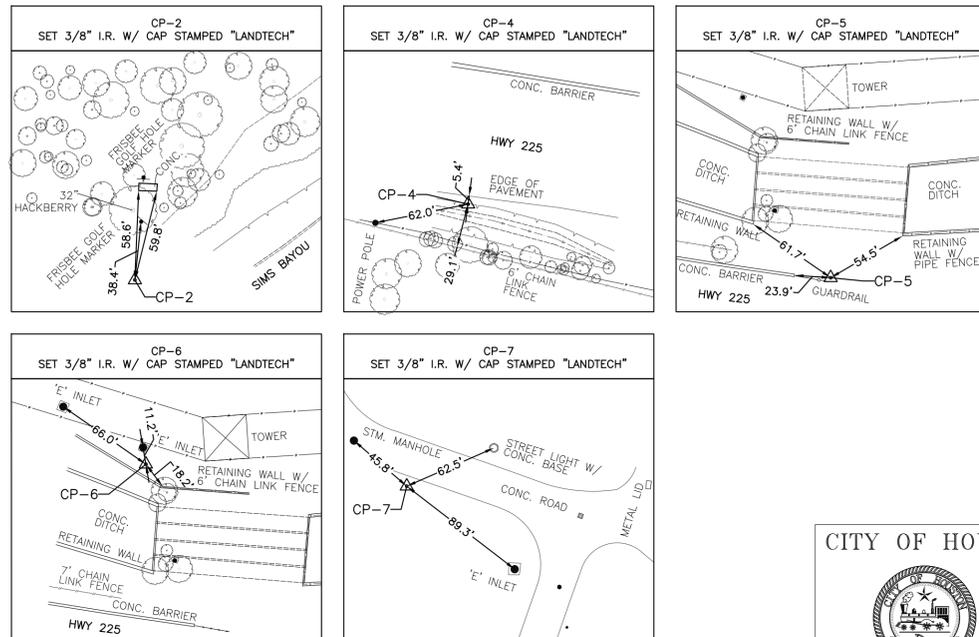
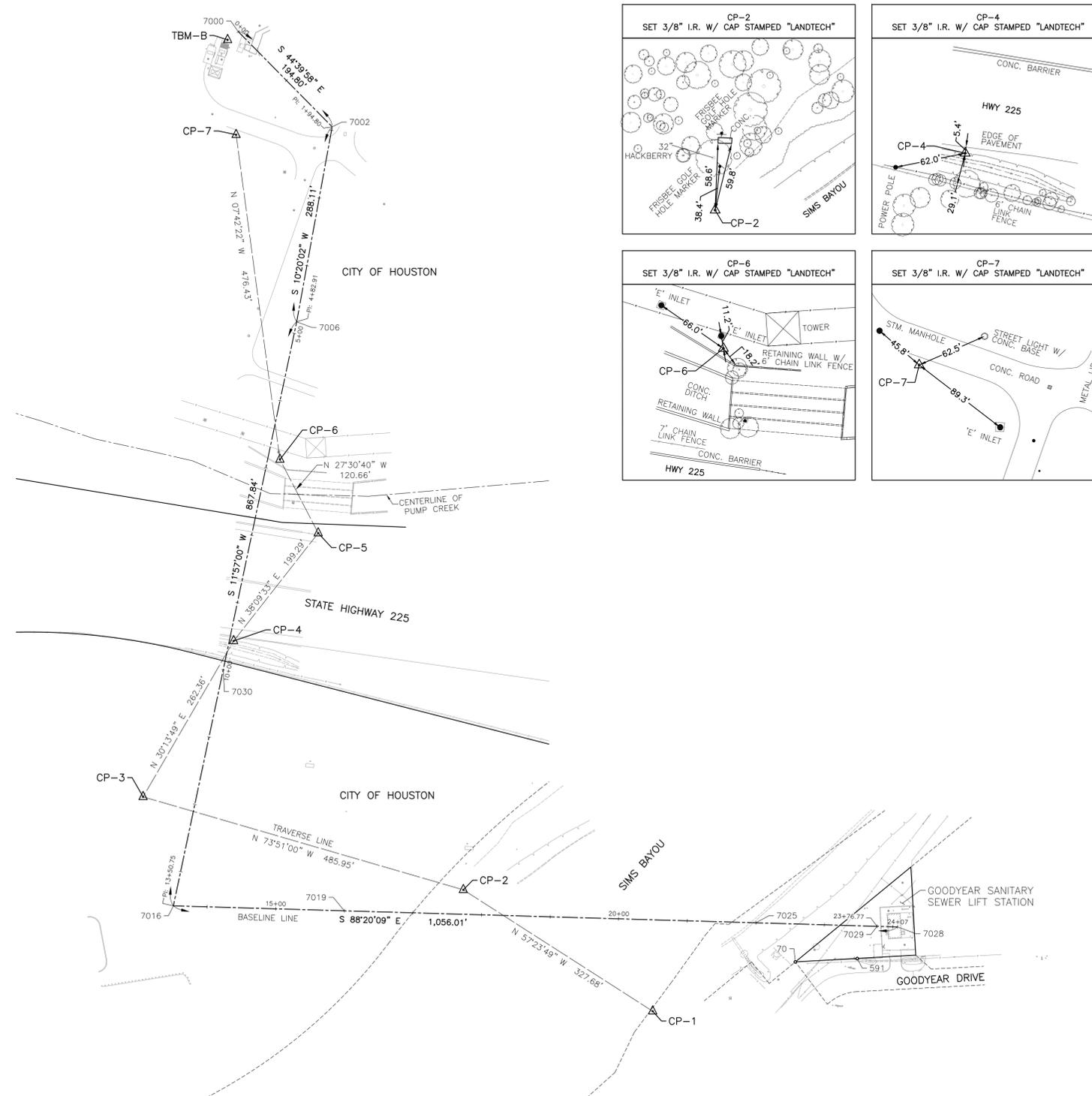
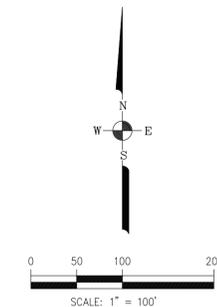
ISSUED FOR INTERIM REVIEW ONLY
THIS PLAN IS NOT COMPLETE AND IS NOT INTENDED FOR BIDDING, CONSTRUCTION, OR PERMIT PURPOSES.
ENGINEER: JANICE C. NOELDNER
TX. LICENSE No. 131967
ISSUED: February 2026

P:\HOU\SC\2326078-Force Main Rehab and CAD\01\_Civil\_3D\01\_Shts-Plans\06\_HARRIS\_FC\_REVIEW-GOODYEAR.dwg, 2/19/2026 11:04:01 AM, Bob Juliano

CONTROL POINT TABLE						
CONTROL POINT	STATION	OFFSET	GRID NORTHING	GRID EASTING	ELEV.	DESCRIPTION
CP-7	1+04.58	107.61	13,824,687.80	3,155,538.13	14.21	SET 3/8" I.R. W/ CAP STAMPED "LANDTECH"
CP-6	6+83.80	-17.59	13,824,215.72	3,155,602.01	14.10	SET 3/8" I.R. W/ CAP STAMPED "LANDTECH"
CP-5	7+76.95	-94.28	13,824,108.72	3,155,657.74	13.59	SET 3/8" I.R. W/ CAP STAMPED "LANDTECH"
CP-4	9+55.75	-6.26	13,823,952.04	3,155,534.62	12.72	SET 3/8" I.R. W/ CAP STAMPED "LANDTECH"
CP-3	12+04.86	76.03	13,823,725.39	3,155,402.55	16.62	SET 3/8" I.R. W/ CAP STAMPED "LANDTECH"
CP-2	17+72.48	-35.56	13,823,590.23	3,155,869.26	8.38	SET 3/8" I.R. W/ CAP STAMPED "LANDTECH"
CP-1	20+53.54	132.91	13,823,413.69	3,156,145.28	7.74	SET 3/8" I.R. W/ CAP STAMPED "LANDTECH"
58311	-	-	13,824,504.24	3,157,600.82	12.02	FND. COH MON 5655-8311
TBM-B	-	-	13,824,825.74	3,155,525.75	19.91	SET CUT "□" ON CONCRETE PAD

BASELINE POINT TABLE			
BASELINE POINT	GRID NORTHING	GRID EASTING	DESCRIPTION
7000	13,824,837.81	3,155,541.14	SET 3/8" IR W/ CAP STAMPED "LANDTECH"
7002	13,824,699.28	3,155,678.07	SET 3/8" IR W/ CAP STAMPED "LANDTECH"
7006	13,824,415.88	3,155,626.39	SET 3/8" IR W/ CAP STAMPED "LANDTECH"
7030	13,823,919.83	3,155,521.42	SET 3/8" IR W/ CAP STAMPED "LANDTECH"
7016	13,823,566.94	3,155,446.72	SET 3/8" IR W/ CAP STAMPED "LANDTECH"
7019	13,823,559.70	3,155,695.84	SET 3/8" IR W/ CAP STAMPED "LANDTECH"
7025	13,823,542.28	3,156,295.52	SET 3/8" IR W/ CAP STAMPED "LANDTECH"
7029	13,823,537.14	3,156,472.20	SET 3/8" IR W/ CAP STAMPED "LANDTECH"
7028	-	-	UNABLE TO SET

FOUND CORNER TABLE					
POINT	STATION	OFFSET	GRID NORTHING	GRID EASTING	DESCRIPTION
70	22+59.25	55.20	13,823,485.39	3,156,353.13	FND. 5/8" IR W/ CAP. "UNITED ENGINEERS"
591	23+49.26	47.58	13,823,490.39	3,156,443.32	FND. 5/8" IR W/ CAP. "UNITED ENGINEERS"



Project WBS# R-000035-0029  
 Texas Coordinate System of 1983, South Central Zone, U. S. Survey Feet  
 X= 3,157,600.82  
 Y= 13,824,504.24  
 Lat.= 29° 42' 33.59029" N  
 Lon.= 95° 15' 12.30720" W  
 Reference Frame Used: NAD 83 (2011) (EPOCH 2010)  
 Vertical Adjustment used: NAVD 88  
 General Location: 260 FEET EAST OF THE INTERSECTION OF GOODYEAR STREET AND LAWDALE AVENUE, 3.5 FEET NORTH OF THE BACK OF CURB.  
 Date Set: 07/11/2005 Type of Mark: HCFF RM 010406 BRASS DISK  
 3 Nearest project control points (bearings and distances stated below):  
 To Control Point #1 (3/8" I.R. W/ Cap Stamped "LANDTECH"): S 53°09'29" W, 1,818.97'  
 To Control Point #2 (3/8" I.R. W/ Cap Stamped "LANDTECH"): S 62°10'21" W, 1,958.20'  
 To Control Point #5 (3/8" I.R. W/ Cap Stamped "LANDTECH"): S 78°29'39" W, 1,983.15'  
 NOTE:  
 1. Bearings are grid bearings.  
 2. Scale Factor = 0.999888074.  
 3. Surface = Grid S.F.  
 Surveyed By: Landtech Inc.  
 1315 W Sam Houston Parkway N,  
 Suite 100 Houston, Texas 77043  
 TBPELS Registration No. 10019100

BENCHMARK:  
 CITY OF HOUSTON MONUMENT 5655-8311, BRASS DISK IN CONCRETE SET 260 FEET EAST OF THE INTERSECTION OF GOODYEAR STREET AND LAWDALE AVENUE, 3.5 FEET NORTH OF THE BACK OF CURB. ELEVATION = 12.02 FEET

NOTES:  
 1. BEARINGS BASED ON THE TEXAS COORDINATE SYSTEM OF 1983, SOUTH CENTRAL ZONE, NAD 83 (2001 ADJUSTMENT). DISTANCES ARE SURFACE VALUES IN US SURVEY FEET AND MAY BE CONVERTED TO GRID BY MULTIPLYING BY A COMBINED SCALE FACTOR OF 0.999888074. COORDINATES ARE GRID VALUES AND MAY BE CONVERTED TO SURFACE BY DIVIDING BY THE COMBINED SCALE FACTOR.  
 2. ALL ELEVATIONS HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).  
 3. FIELD SURVEY COMPLETED IN DECEMBER, 2025.  
 4. HORIZONTAL AND VERTICAL CONTROLS ARE REFERENCED TO THE CITY OF HOUSTON SITE CONTROL MONUMENT 5655-8311, ESTABLISHED IN 2005.

11450 COMPAQ CENTER WEST DRIVE, SUITE 660  
 HOUSTON, TEXAS 77070 • (281)350-7027  
 www.baxterwoodman.com • TBPELS FIRM No. F-21783

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1315 W Sam Houston Parkway N,  
 Suite 100 Houston, Texas 77043  
 T: 713-861-7068  
 F: 713-861-4131  
 TBPELS Registration No. 10019100

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SURVEYED BY: LANDTECH  
 FB NO. XXXX

## CITY OF HOUSTON

HOUSTON PUBLIC WORKS

### GOODYEAR SURVEY CONTROL MAP

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000035-0029	
DRAWING SCALE	
CITY OF HOUSTON PM	
MARIA GEORGE, P.E.	
SHEET NO. 1 OF 1	

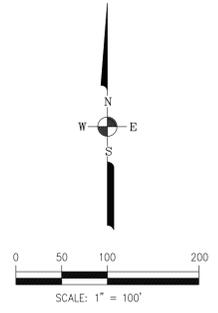
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REVISED ON 01-28-2026  
 City of Houston, Harris County, Texas

LINE TABLE		
LINE	BEARING	DISTANCE
L1	S 19°04'22" E	123.26'
L2	S 66°59'10" E	112.09'
L3	S 66°59'10" E	60.00'

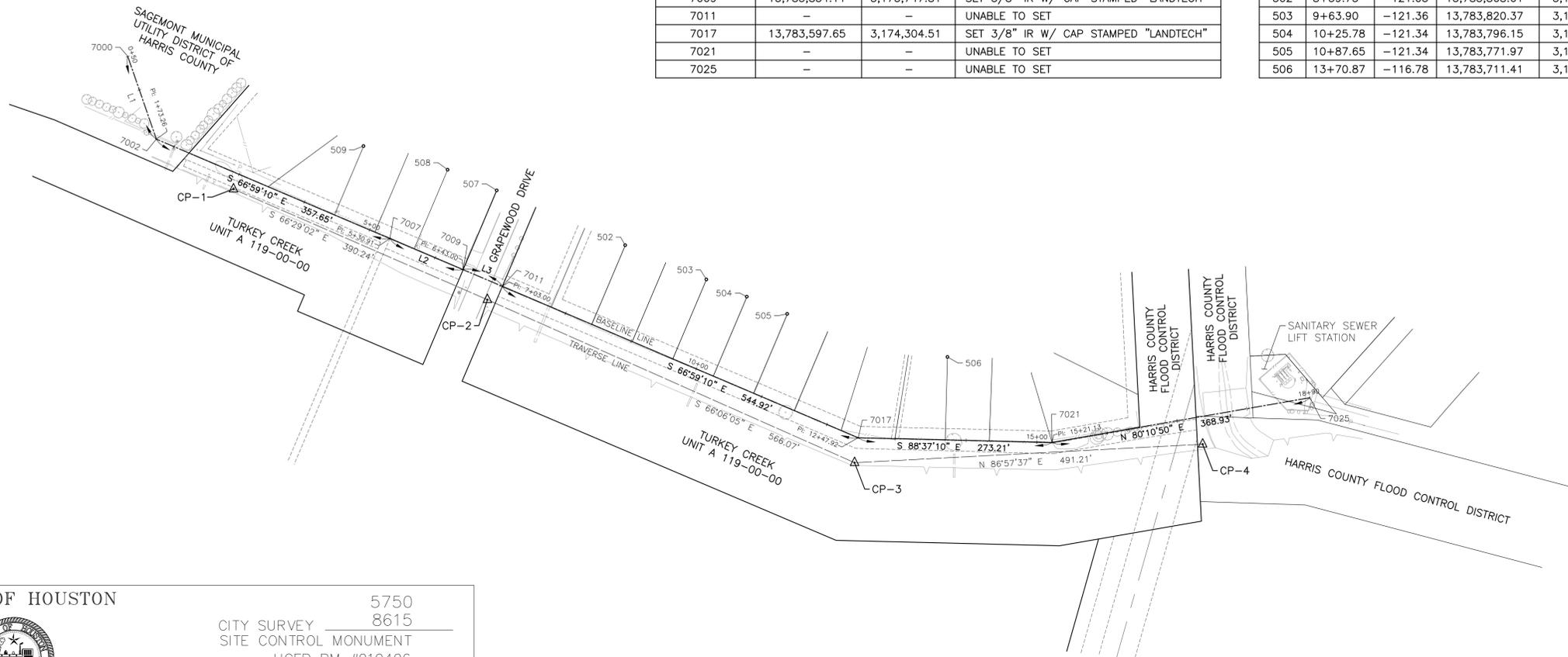
BASELINE POINT TABLE				
BASILINE POINT	GRID NORTHING	GRID EASTING	DESCRIPTION	
7000	13,784,134.22	3,173,275.24	SET 3/8" IR W/ CAP STAMPED "LANDTECH"	
7002	13,784,017.74	3,173,315.51	SET 3/8" IR W/ CAP STAMPED "LANDTECH"	
7007	13,783,877.93	3,173,644.65	SET 3/8" IR W/ CAP STAMPED "LANDTECH"	
7009	13,783,834.11	3,173,747.81	SET 3/8" IR W/ CAP STAMPED "LANDTECH"	
7011	-	-	UNABLE TO SET	
7017	13,783,597.65	3,174,304.51	SET 3/8" IR W/ CAP STAMPED "LANDTECH"	
7021	-	-	UNABLE TO SET	
7025	-	-	UNABLE TO SET	

FOUND CORNER TABLE					
POINT	STATION	OFFSET	GRID NORTHING	GRID EASTING	DESCRIPTION
509	4+45.71	-105.17	13,784,008.02	3,173,607.35	FND. 1/2" IP
508	5+67.88	-120.91	13,783,974.75	3,173,725.93	FND. 1/2" IR
507	6+42.94	-121.18	13,783,945.66	3,173,795.12	FND. 1/2" IR
502	8+39.75	-121.05	13,783,868.61	3,173,976.19	FND. 1/2" IR
503	9+63.90	-121.36	13,783,820.37	3,174,090.57	FND. 1/2" IR
504	10+25.78	-121.34	13,783,796.15	3,174,147.51	FND. 1/2" IR
505	10+87.65	-121.34	13,783,771.97	3,174,204.44	FND. 1/2" IR W/ CAP
506	13+70.87	-116.78	13,783,711.41	3,174,430.22	FND. 5/8" IR

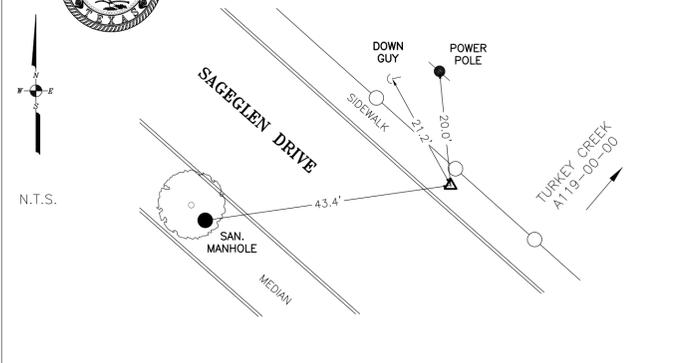


BENCHMARK:  
 CITY OF HOUSTON MONUMENT 5750-8615, BRASS DISK STAMPED HCFP RM 010406 SET IN THE SIDEWALK, 130 FEET SOUTHEAST OF THE INTERSECTION OF SAGEDOWNE LANE AND SAGEGLEN LANE, 5 FEET NORTH OF THE BACK OF CURB.  
 ELEVATION= 31.93 FEET

- NOTES:
- BEARINGS BASED ON THE TEXAS COORDINATE SYSTEM OF 1983, SOUTH CENTRAL ZONE, NAD 83 (2001 ADJUSTMENT). DISTANCES ARE SURFACE VALUES IN US SURVEY FEET AND MAY BE CONVERTED TO GRID BY MULTIPLYING BY A COMBINED SCALE FACTOR OF 0.999870017. COORDINATES ARE GRID VALUES AND MAY BE CONVERTED TO SURFACE BY DIVIDING BY THE COMBINED SCALE FACTOR.
  - ALL ELEVATIONS HEREON ARE REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
  - FIELD SURVEY COMPLETED IN OCTOBER, 2025.
  - HORIZONTAL AND VERTICAL CONTROLS ARE REFERENCED TO THE CITY OF HOUSTON SITE CONTROL MONUMENT 5750-8615, ESTABLISHED IN 2002.



CITY OF HOUSTON  
 5750  
 CITY SURVEY 8615  
 SITE CONTROL MONUMENT  
 HCFP RM #010406



Project WBS# R-000035-0029  
 Texas Coordinate System of 1983,  
 South Central Zone, U. S. Survey Feet  
 X= 3,172,067.74  
 Y= 13,784,079.74  
 Lat.= 29° 35' 48.97015" N  
 Lon.= 95° 12' 43.17279" W  
 Reference Frame Used: NAD 83 (2011) (EPOCH 2010)  
 Vertical Adjustment used: NAVD 88  
 General Location: 130 FEET SOUTHEAST OF THE INTERSECTION OF SAGEDOWNE LANE AND SAGEGLEN LANE, 5 FEET NORTH OF THE BACK OF CURB.  
 Date Set: 12/17/2002 Type of Mark: HCFP RM 010406 BRASS DISK

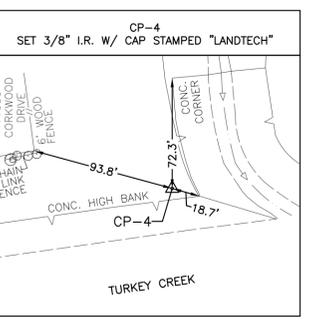
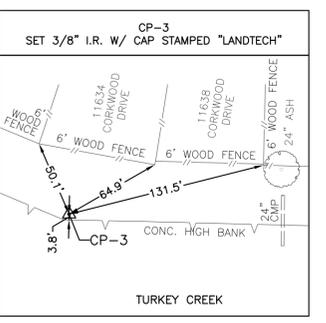
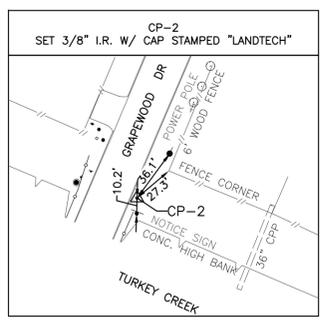
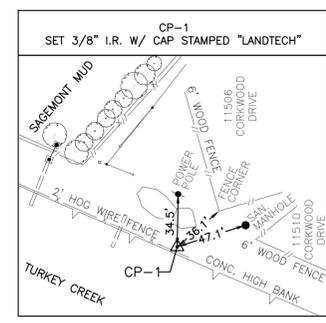
Keymap Page: 576Y  
 Orthometric Elevation = 31.93'  
 Ellipsoid Height = -57.19'  
 Geoid: GEOID 18  
 Datum Source & Adjustment: GPS STATIC  
 (OBSERVED ON 10-02-2025)

3 Nearest project control points (bearings and distances stated below):  
 To Control Point #1 (3/8" I.R. W/ Cap Stamped "LANDTECH"): S 84°25'59" E, 1,363.07'  
 To Control Point #2 (3/8" I.R. W/ Cap Stamped "LANDTECH"): S 80°27'59" E, 1,738.48'  
 To Control Point #3 (3/8" I.R. W/ Cap Stamped "LANDTECH"): S 76°57'08" E, 2,291.15'

NOTE:  
 1. Bearings are grid bearings.  
 2. Scale Factor = 0.999870017.  
 3. Surface = Grid S.F.

Surveyed By: Landtech Inc.  
 1315 W Sam Houston Parkway N,  
 Suite 100 Houston, Texas 77043  
 TBPELS Registration No. 10019100

REVISED ON 01-28-2026  
 City of Houston, Harris County, Texas



CONTROL POINT TABLE						
CONTROL POINT	STATION	OFFSET	GRID NORTHING	GRID EASTING	ELEV.	DESCRIPTION
CP-1	3+00.77	22.13	13,783,947.53	3,173,424.20	29.21	SET 3/8" I.R. W/ CAP STAMPED "LANDTECH"
CP-2	6+90.99	25.55	13,783,791.84	3,173,781.98	28.31	SET 3/8" I.R. W/ CAP STAMPED "LANDTECH"
CP-3	-	-	13,783,562.55	3,174,299.45	28.53	SET 3/8" I.R. W/ CAP STAMPED "LANDTECH"
CP-4	17+29.93	38.65	13,783,588.59	3,174,789.91	28.58	SET 3/8" I.R. W/ CAP STAMPED "LANDTECH"
500	-	-	13,784,079.74	3,172,067.74	31.93	FND. COH MON 5750-8615

**BAXTER & WOODMAN**  
 Consulting Engineers  
 11450 COMPAQ CENTER WEST DRIVE, SUITE 660  
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**LANDTECH**  
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 T: 713-861-7068  
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 TBPELS Registration No. 10019100

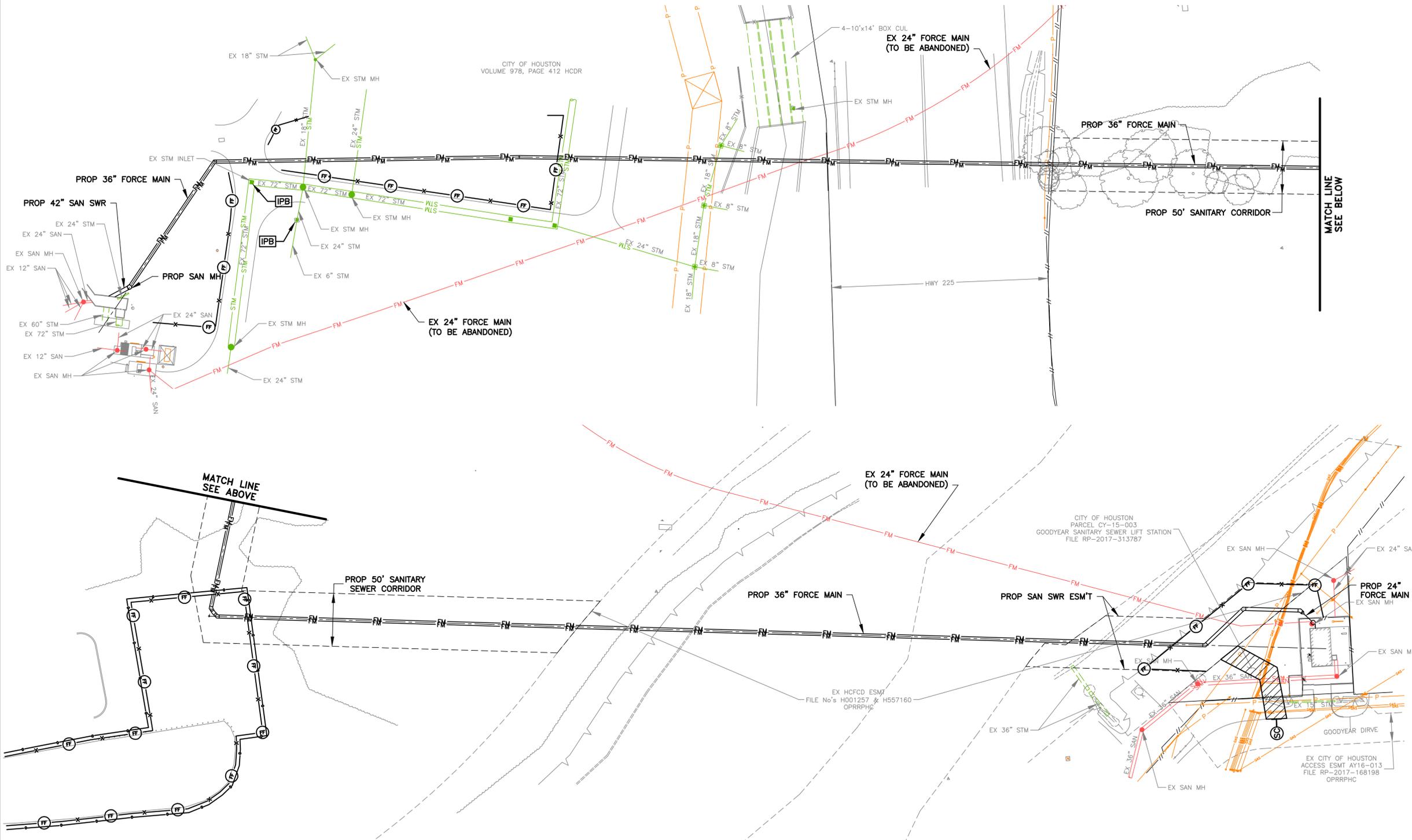
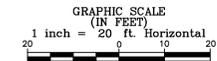
SURVEYED BY: LANDTECH  
 FB NO. XXXX

CITY OF HOUSTON  
 HOUSTON PUBLIC WORKS

SCARSDALE SURVEY CONTROL MAP

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
R-000035-0029	
DRAWING SCALE	
CITY OF HOUSTON PM	
MARIA GEORGE, P.E.	
SHEET NO. 1 OF 1	

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GOODYEAR BENCHMARK:  
CITY OF HOUSTON SITE CONTROL MONUMENT 5655-8311, LOCATED BY NORTH CURB OF LAWNDALE AVENUE, APPROXIMATE 260 FEET EAST GOODYEAR STREET.  
ELEV.= 12.02' (NAVD88, GEOID 18)

SCARSDALE BENCHMARK:  
CITY OF HOUSTON SITE CONTROL MONUMENT 5750-8615 (HARRIS COUNTY FLOODPLAIN RM NO. 010460), LOCATED ON NORTHWEST CORNER OF BRIDGE SIDEWALK ON SAGELEEN DRIVE OVER TURKEY CREEK.  
ELEV.= 31.93' (NAVD88, GEOID 18)

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 TO 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.
AT&T TEXAS/SWBT UTILITY LINES SHOWN	Date:
Approved for AT&T Texas/SWBT underground conduit facilities only. Signature valid for one year.	

**BAXTER & WOODMAN**  
Consulting Engineers  
11450 COMPAQ CENTER WEST DRIVE, SUITE 660  
HOUSTON, TEXAS 77070 • (281)350-7027  
www.baxterwoodman.com • TPBELS FIRM No. F-21783

BAXTER & WOODMAN  
11450 COMPAQ CENTER  
WEST DR. SUITE 660  
HOUSTON, TEXAS 77070  
(281)350-7027  
TPBELS FIRM No. F-21783

ISSUED FOR INTERIM REVIEW ONLY

THIS PLAN IS NOT COMPLETE AND IS NOT INTENDED FOR BIDDING, CONSTRUCTION, OR PERMIT PURPOSES.

ENGINEER: JANICE C. NOELDNER  
TX LICENSE No. 131967  
ISSUED: February 2026

**CITY OF HOUSTON**  
HOUSTON PUBLIC WORKS

CITY OF HOUSTON  
FORCE MAIN REHABILITATION AND RECONSTRUCTION -  
GOODYEAR AND SCARSDALE LIFT STATIONS

GOODYEAR 36-INCH FORCE MAIN  
OVERALL AND STORM WATER  
POLLUTION PREVENTION PLAN

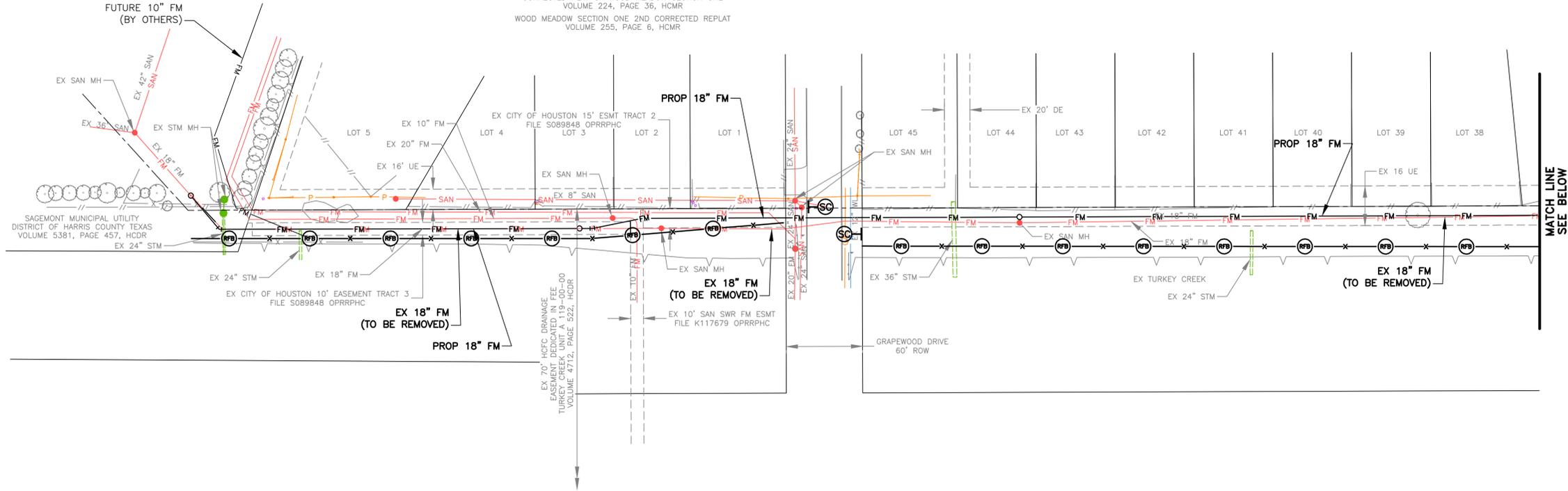
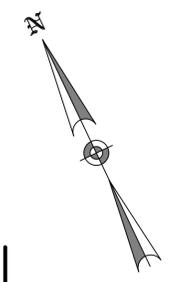
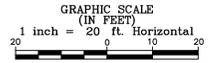
**LEGEND**

	— REINFORCED FILTER FABRIC BARRIER
	— STABILIZED CONSTRUCTION ACCESS
	— INLET PROTECTION BARRIER
	— TEMPORARY CHAIN LINK FENCE

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
S-000100-0019	
DRAWING SCALE	
1"=50' H	
CITY OF HOUSTON PM	
MARIA GEORGE, P.E.	
SHEET NO. 9 OF 40	

P:\HOUS\CA\2326078-Force Main Rehab and\CA\01\_Civil\_3D\01\_Shis-Plans-Plans\09\_GOODYEAR OVERALL.dwg, 2/9/2026 11:04:23 AM, Bob Juliano

A REPLAT OF WOOD MEADOW SECTION ONE  
 VOLUME 220, PAGE 124, HCMR  
 CORRECTED PLAT OF WOOD MEADOW SECTION ONE  
 VOLUME 224, PAGE 36, HCMR  
 WOOD MEADOW SECTION ONE 2ND CORRECTED REPLAT  
 VOLUME 255, PAGE 6, HCMR



GOODYEAR BENCHMARK:  
 CITY OF HOUSTON SITE CONTROL MONUMENT 5655-8311, LOCATED BY NORTH CURB OF LAWNDALE AVENUE, APPROXIMATE 260 FEET EAST GOODYEAR STREET.  
 ELEV.= 12.02' (NAVD88, GEOID 18)

SCARSDALE BENCHMARK:  
 CITY OF HOUSTON SITE CONTROL MONUMENT 5750-8615 (HARRIS COUNTY FLOODPLAIN RM NO. 010460), LOCATED ON NORTHWEST CORNER OF BRIDGE SIDEWALK ON SAGEGLEN DRIVE OVER TURKEY CREEK.  
 ELEV.= 31.93' (NAVD88, GEOID 18)

NOTICE:  
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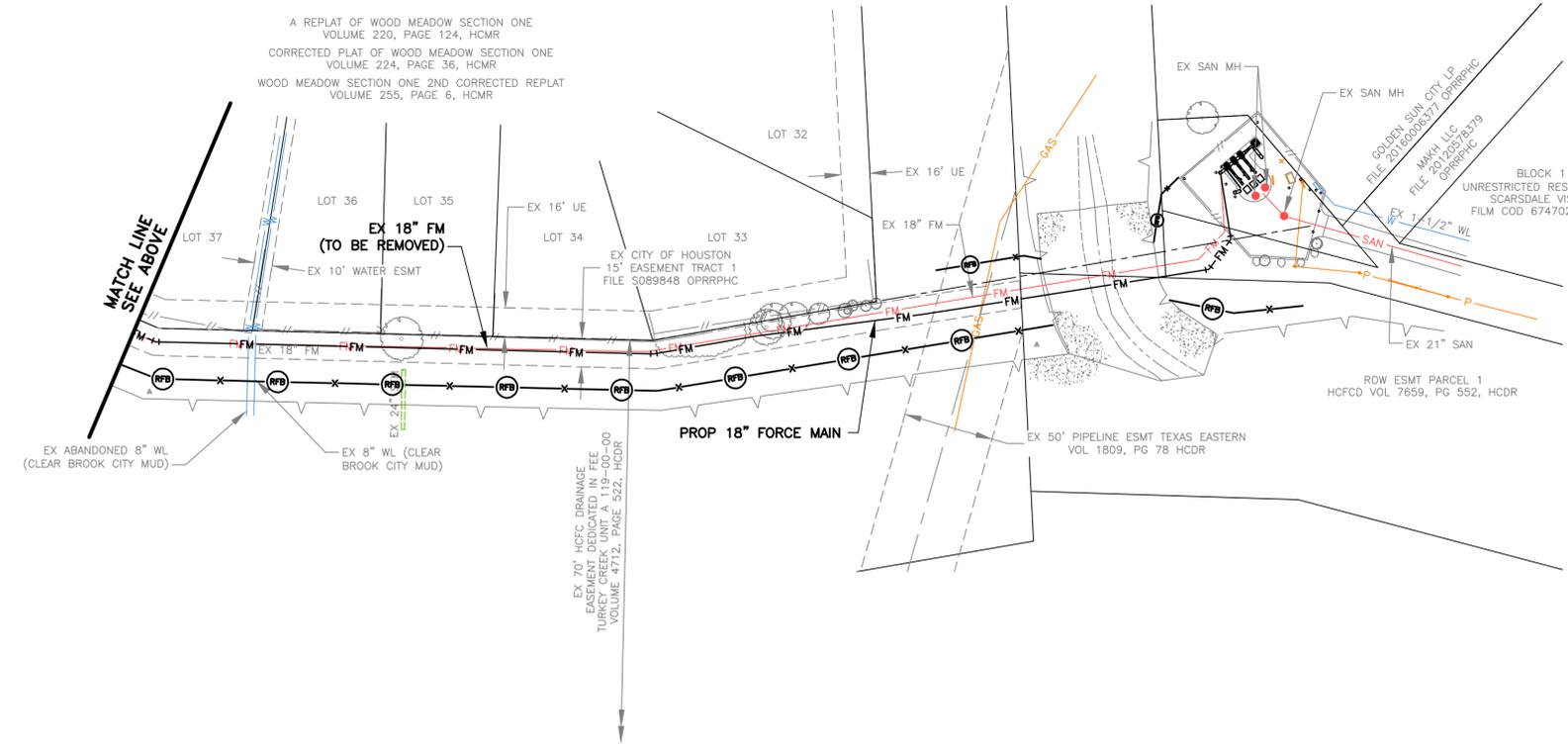
VERIFICATION OF PRIVATE UTILITY LINES

Date: \_\_\_\_\_  
 CENTERPOINT ENERGY NATURAL GAS UTILITIES SHOWN. (GAS SERVICE LINES ARE NOT SHOWN.) THIS SIGNATURE NOT TO 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.

AT&T TEXAS/SWBT UTILITY LINES SHOWN  
 Date: \_\_\_\_\_  
 Approved for AT&T Texas/SWBT underground conduit facilities only. Signature valid for one year.

A REPLAT OF WOOD MEADOW SECTION ONE  
 VOLUME 220, PAGE 124, HCMR  
 CORRECTED PLAT OF WOOD MEADOW SECTION ONE  
 VOLUME 224, PAGE 36, HCMR  
 WOOD MEADOW SECTION ONE 2ND CORRECTED REPLAT  
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 (281)350-7027  
 TBPELS FIRM No. F-21783

ISSUED FOR INTERIM REVIEW ONLY

THIS PLAN IS NOT COMPLETE AND IS NOT INTENDED FOR BIDDING, CONSTRUCTION, OR PERMIT PURPOSES.

ENGINEER: JANICE C. NOELDNER  
 TX LICENSE No. 131967  
 ISSUED: February 2026

**CITY OF HOUSTON**  
 HOUSTON PUBLIC WORKS

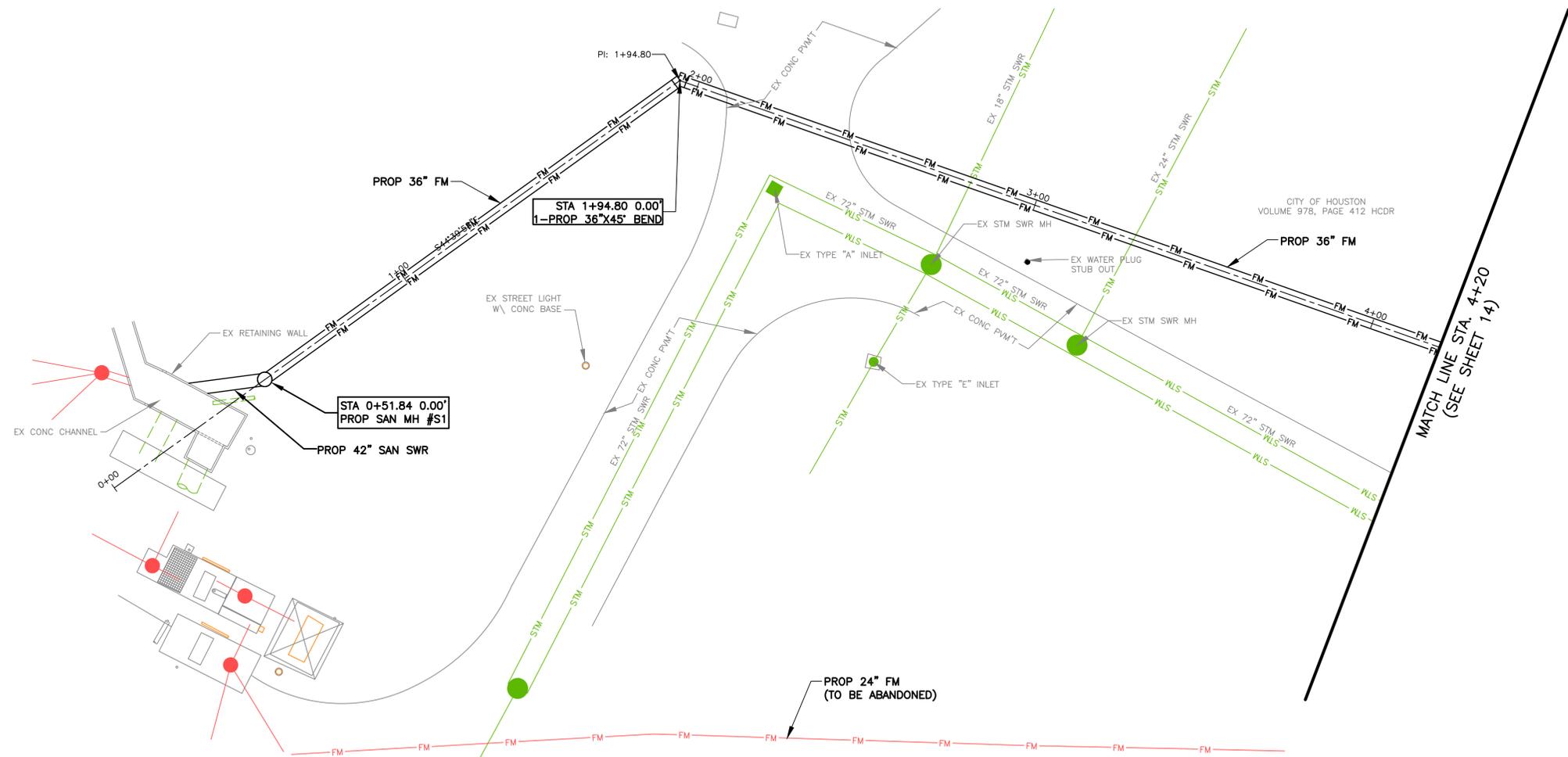
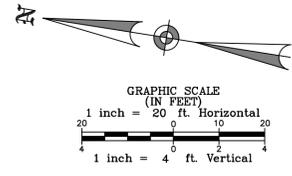
CITY OF HOUSTON  
 FORCE MAIN REHABILITATION AND RECONSTRUCTION -  
 GOODYEAR AND SCARSDALE LIFT STATIONS

SCARSDALE 18-INCH FORCE MAIN  
 OVERALL AND STORM WATER  
 POLLUTION PREVENTION PLAN

- LEGEND**
- REINFORCED FILTER FABRIC BARRIER
  - STABILIZED CONSTRUCTION ACCESS

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
S-000100-0019	
DRAWING SCALE	
1"=50' H	
CITY OF HOUSTON PM	
MARIA GEORGE, P.E.	
SHEET NO. 10 OF 40	

P:\HOUS\CA\2326078-Force Main Rehab and\CA\01\_Civil\_3D\01\_Shis-Plans\10\_SCARSDALE OVERALL.dwg, 2/9/2026, 1:35:30 PM, Bob Juliano



GOODYEAR BENCHMARK:  
 CITY OF HOUSTON SITE CONTROL MONUMENT 5655-8311, LOCATED BY NORTH CURB OF LAWDALE AVENUE, APPROXIMATE 260 FEET EAST GOODYEAR STREET.  
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**VERIFICATION OF PRIVATE UTILITY LINES**

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 Consulting Engineers

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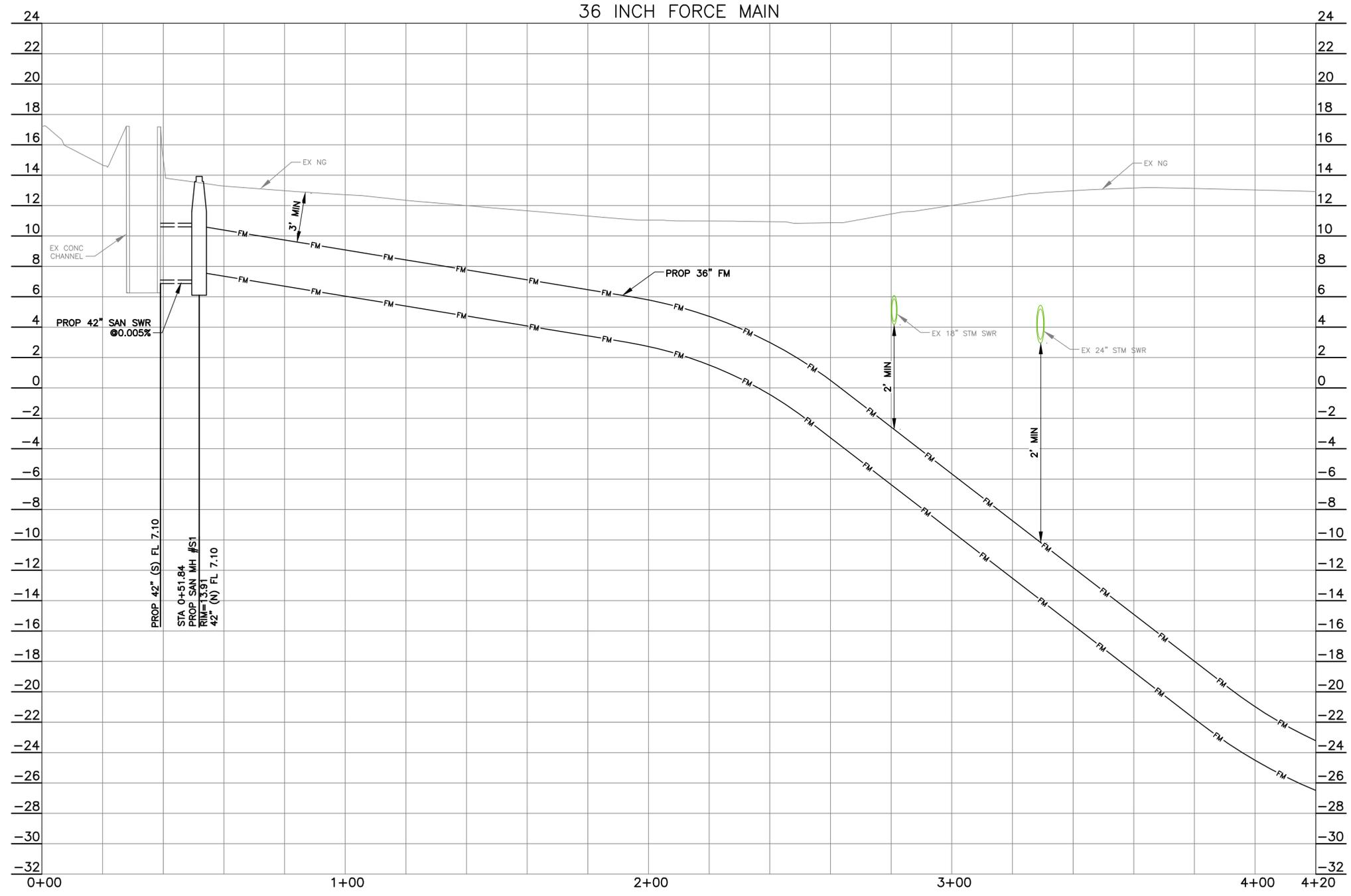
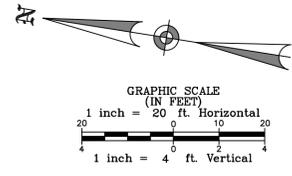
**CITY OF HOUSTON**  
 HOUSTON PUBLIC WORKS

CITY OF HOUSTON  
 FORCE MAIN REHABILITATION AND RECONSTRUCTION -  
 GOODYEAR AND SCARSDALE LIFT STATIONS

**PLAN**  
 36 INCH FORCE MAIN  
 (STA 0+00 TO 4+20)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
S-000100-0019	
DRAWING SCALE	
1"=20' H 1"=4' V	
CITY OF HOUSTON PM	
MARIA GEORGE, P.E.	
SHEET NO. 11 OF 40	

P:\HOUS\2326078-Force Main Rehab and\CAD\01\_Civil\_3D\01\_Shts-Plans\1-24\_GOODYEAR FM PLAN\_PROFILE SHTS.dwg, 2/9/2026 11:04:49 AM, Bob Juliano



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**VERIFICATION OF PRIVATE UTILITY LINES**

Centerpoint Energy Natural Gas Utilities Shown. (Gas Service Lines are Not Shown.)  
 This signature verifies existing underground facilities—not to be used for conflict verification.  
 Signature Valid for Six Months.

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.

AT&T Texas/SWBT Utility Lines Shown

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 (281)350-7027  
 TBPELS FIRM No. F-21783

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ENGINEER: JANICE C. NOELDNER  
 TX. LICENSE No. 131967  
 ISSUED: February 2026

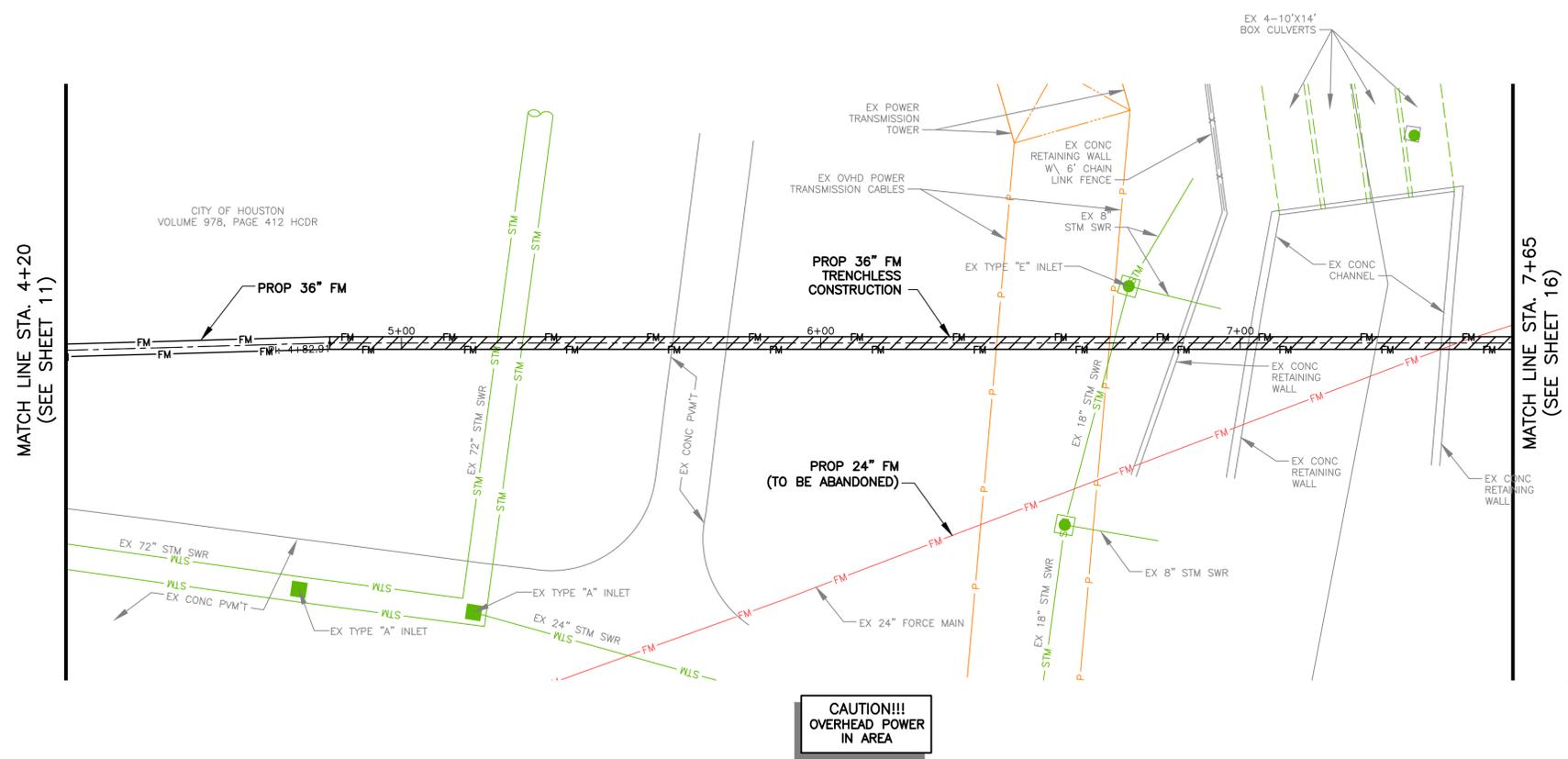
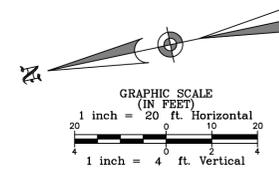
**CITY OF HOUSTON**  
 HOUSTON PUBLIC WORKS

CITY OF HOUSTON  
 FORCE MAIN REHABILITATION AND RECONSTRUCTION -  
 GOODYEAR AND SCARSDALE LIFT STATIONS

PROFILE  
 36 INCH FORCE MAIN  
 (STA 0+00 TO 4+20)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
S-000100-0019	
DRAWING SCALE	
X"=XXX' H X"=XXX' V	
CITY OF HOUSTON PM	
MARIA GEORGE, P.E.	
SHEET NO. 12 OF 40	

P:\HOUS\23266078-Force Main Rehab and\CAD\01\_Civil\_3D\01\_Shts-Plans\1-24\_GOODYEAR FM PLAN\_PROFILE SHOTS.dwg, 2/9/2026 11:04:50 AM, Bob Juliano



**GOODYEAR BENCHMARK:**  
 CITY OF HOUSTON SITE CONTROL MONUMENT 5655-8311, LOCATED BY NORTH CURB OF LAWNDALE AVENUE, APPROXIMATE 260 FEET EAST GOODYEAR STREET.  
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VERIFICATION OF PRIVATE UTILITY LINES	
Centerpoint Energy Natural Gas Utilities Shown. (Gas Service Lines are Not Shown.) This signature is not to be used for conflict verification. Signature valid for six months.	Date: _____
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AT&T Texas/SWBT Utility Lines Shown	Date: _____
Approved for AT&T Texas/SWBT underground conduit facilities only. Signature valid for one year.	Date: _____

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 www.baxterwoodman.com • TPPELS FIRM No. F-21783

BAXTER & WOODMAN 11450 COMPAQ CENTER WEST DR. SUITE 660 HOUSTON, TEXAS 77070 (281)350-7027 TPPELS FIRM No. F-21783	<b>ISSUED FOR INTERIM REVIEW ONLY</b>  THIS PLAN IS NOT COMPLETE AND IS NOT INTENDED FOR BIDDING, CONSTRUCTION, OR PERMIT PURPOSES.
SURVEYED BY: LANDTECH FB NO. XXXX	ENGINEER: JANICE C. NOELDNER TX LICENSE No. 131967 ISSUED: February 2026

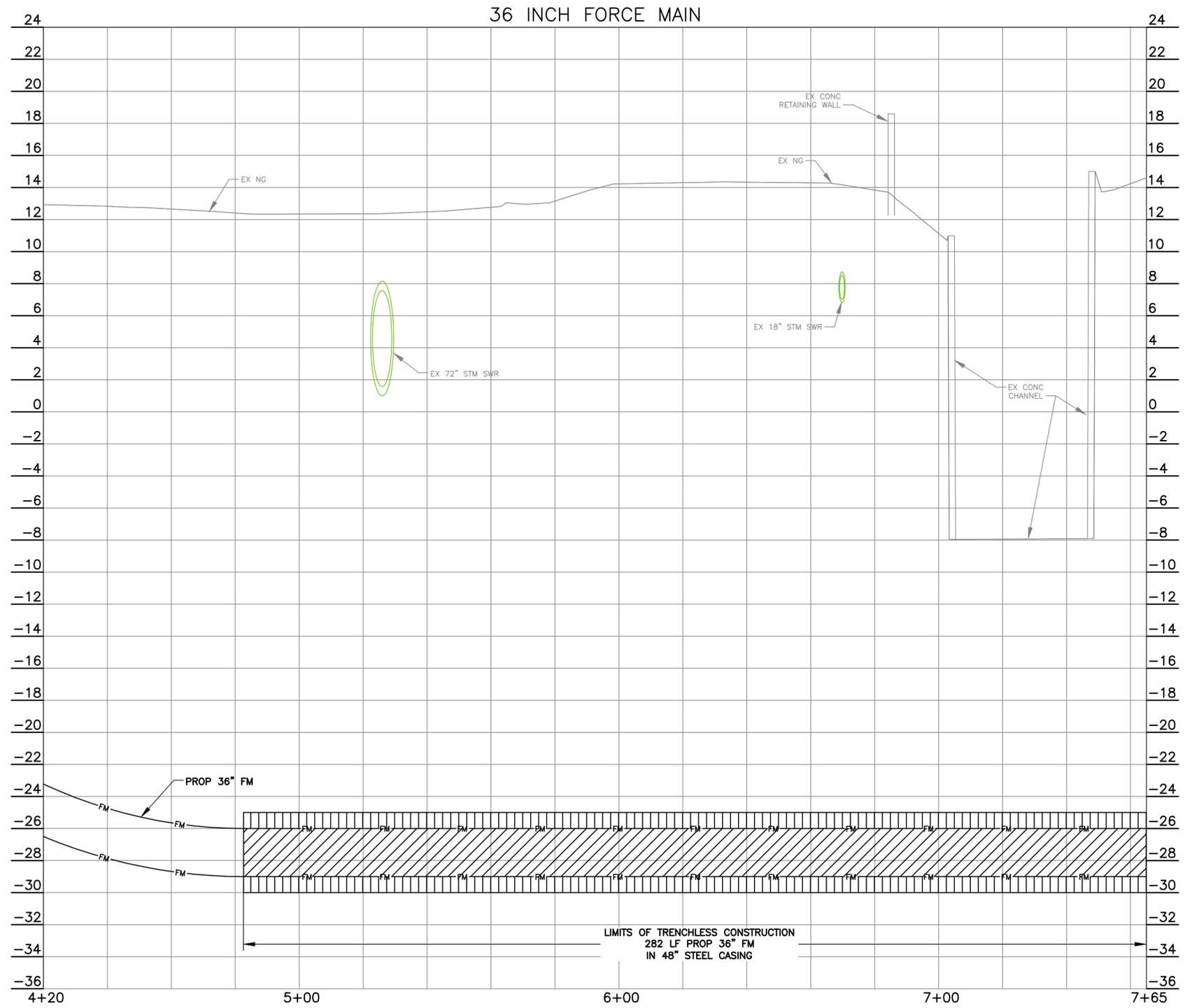
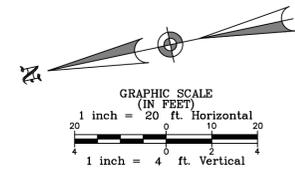
**CITY OF HOUSTON**  
 HOUSTON PUBLIC WORKS

CITY OF HOUSTON  
 FORCE MAIN REHABILITATION AND RECONSTRUCTION -  
 GOODYEAR AND SCARSDALE LIFT STATIONS

**PLAN**  
 36 INCH FORCE MAIN  
 (STA 4+20 TO 7+65)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
S-000100-0019	
DRAWING SCALE	
X"=XXX' H X"=XXX' V	
CITY OF HOUSTON PM	
MARIA GEORGE, P.E.	
SHEET NO. 13 OF 40	

P:\HOUS\CA\2326078-Force Main Rehab and\CA\01\_Civil\_3D\01\_Shts-Plans\11-24\_GOODYEAR FM PLAN\_PROFILE SHTS.dwg, 2/9/2026 11:04:50 AM, Bob Juliano



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**VERIFICATION OF PRIVATE UTILITY LINES**

Date: \_\_\_\_\_  
CENTERPOINT ENERGY NATURAL GAS UTILITIES SHOWN. (GAS SERVICE LINES ARE NOT SHOWN.)  
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AT&T TEXAS/SWBT UTILITY LINES SHOWN  
Date: \_\_\_\_\_  
Approved for AT&T Texas/SWBT underground conduit facilities only.  
Signature valid for one year.

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TPPELS FIRM No. F-21783

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SURVEYED BY: LANDTECH  
FB NO. XXXX

ENGINEER: JANICE C. NOELDNER  
TX. LICENSE No. 131967  
ISSUED: February 2026

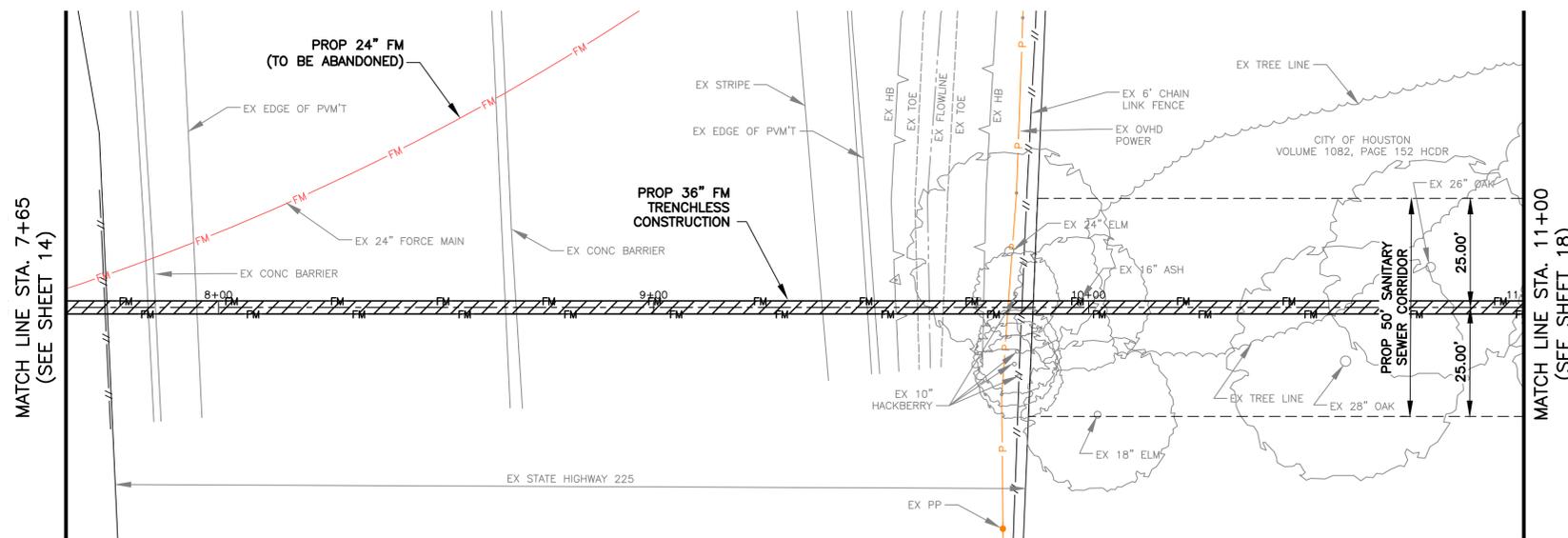
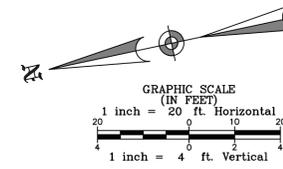
**CITY OF HOUSTON**  
HOUSTON PUBLIC WORKS

CITY OF HOUSTON  
FORCE MAIN REHABILITATION AND RECONSTRUCTION -  
GOODYEAR AND SCARSDALE LIFT STATIONS

PROFILE  
36 INCH FORCE MAIN  
(STA 4+20 TO 7+65)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
S-000100-0019	
DRAWING SCALE	
1"=20' H 1"=4' V	
CITY OF HOUSTON PM	
MARIA GEORGE, P.E.	
SHEET NO. 14 OF 40	

P:\HOUS\23266078-Force Main Rehab and\CAD\01\_Civil\_3D\01\_Shts-Plans\11-24\_GOODYEAR FM PLAN\_PROFILE\_SHTS.dwg, 2/9/2026 11:04:51 AM, Bob Juliano



**CAUTION!!!  
OVERHEAD POWER  
IN AREA**

GOODYEAR BENCHMARK:  
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SURVEYED BY: LANDTECH  
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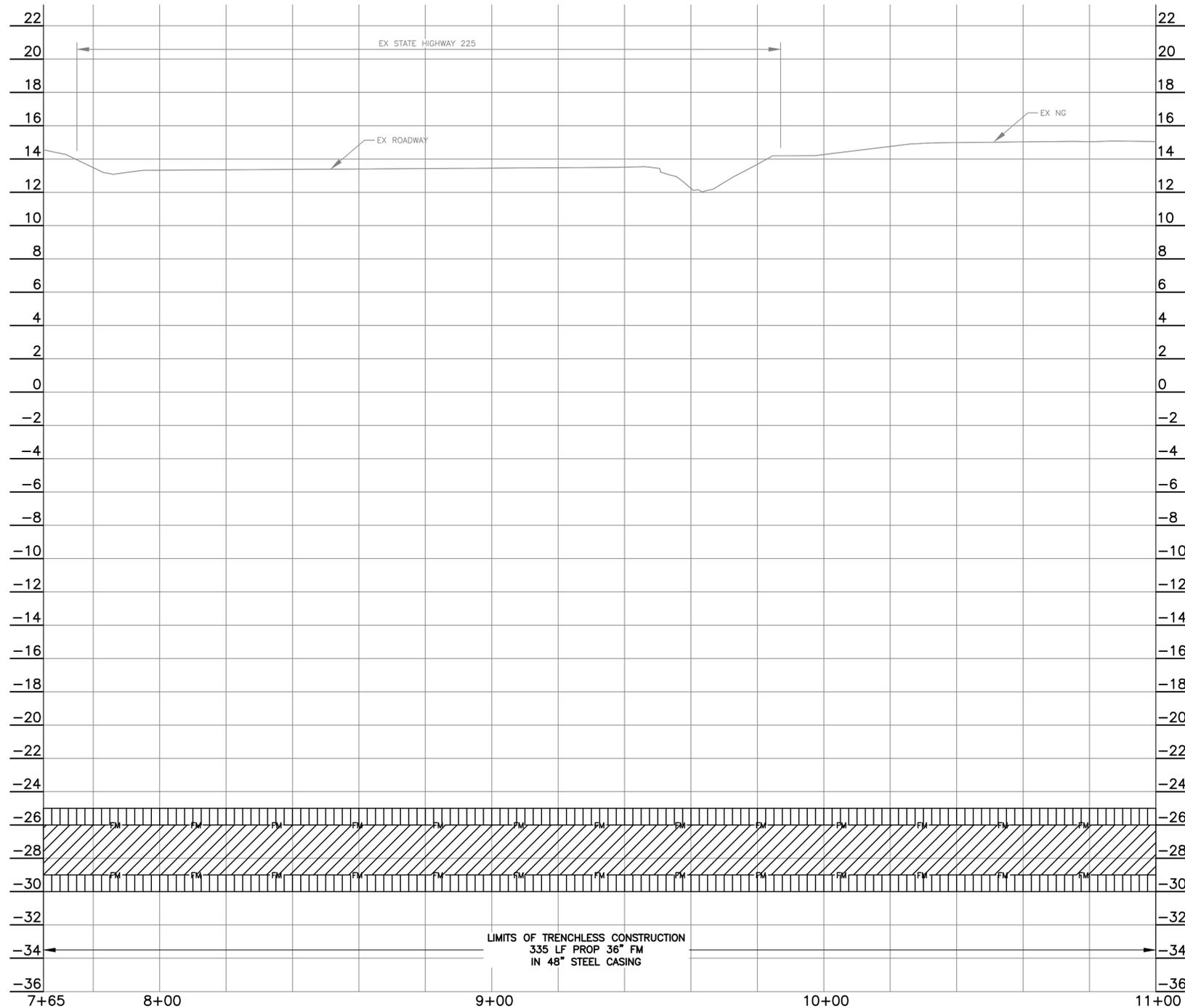
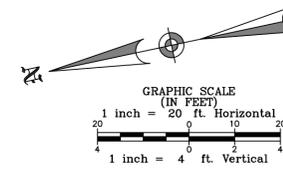
ENGINEER: JANICE C. NOELDNER  
TX. LICENSE No. 131967  
ISSUED: February 2026

**CITY OF HOUSTON**  
HOUSTON PUBLIC WORKS

CITY OF HOUSTON  
FORCE MAIN REHABILITATION AND RECONSTRUCTION -  
GOODYEAR AND SCARSDALE LIFT STATIONS

PLAN  
**36 INCH FORCE MAIN  
(STA 7+65 TO 11+00)**

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
S-000100-0019	
DRAWING SCALE	
X"=XXX' H X"=XXX' V	
CITY OF HOUSTON PM	
MARIA GEORGE, P.E.	
SHEET NO. 15 OF 40	



GOODYEAR BENCHMARK:  
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WEST DR. SUITE 660  
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(281)350-7027  
TBPELS FIRM No. F-21783

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SURVEYED BY: LANDTECH  
FB NO. XXXX

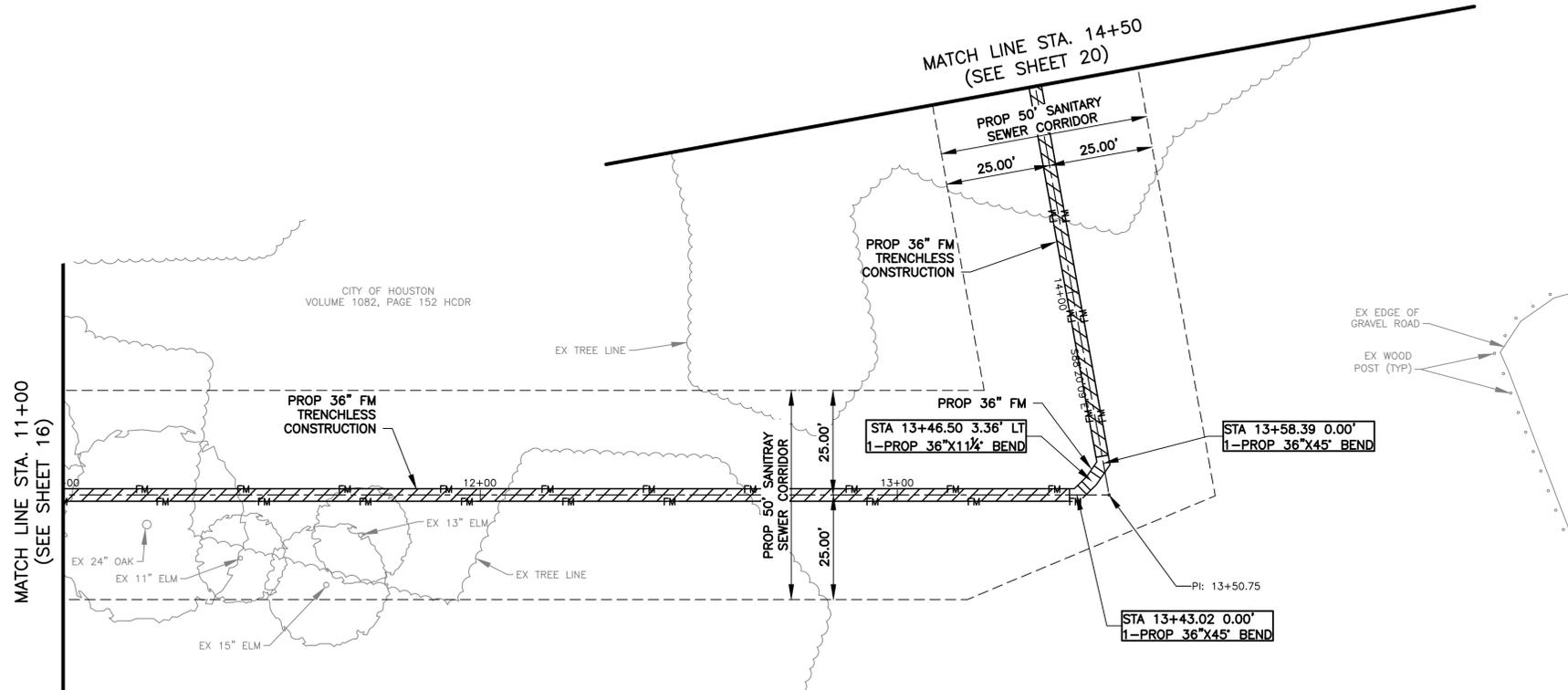
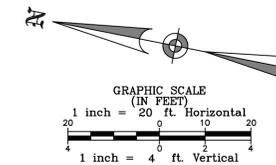
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**CITY OF HOUSTON**  
HOUSTON PUBLIC WORKS

CITY OF HOUSTON  
FORCE MAIN REHABILITATION AND RECONSTRUCTION -  
GOODYEAR AND SCARSDALE LIFT STATIONS

**PROFILE**  
36 INCH FORCE MAIN  
(STA 7+65 TO 11+00)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
S-000100-0019	
DRAWING SCALE	
1"=20' H 1"=4' V	
CITY OF HOUSTON PM	
MARIA GEORGE, P.E.	
SHEET NO. 16 OF 40	



GOODYEAR BENCHMARK:  
CITY OF HOUSTON SITE CONTROL MONUMENT 5655-8311, LOCATED BY NORTH CURB OF LAWNDALE AVENUE, APPROXIMATE 260 FEET EAST GOODYEAR STREET.  
ELEV.= 12.02' (NAVD88, GEOID 18)

SCARSDALE BENCHMARK:  
CITY OF HOUSTON SITE CONTROL MONUMENT 5750-8615 (HARRIS COUNTY FLOODPLAIN RM NO. 010460), LOCATED ON NORTHWEST CORNER OF BRIDGE SIDEWALK ON SAGEGLEN DRIVE OVER TURKEY CREEK.  
ELEV.= 31.93' (NAVD88, GEOID 18)

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 TO 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.

AT&T TEXAS/SWBT UTILITY LINES SHOWN  
Date: \_\_\_\_\_

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

**BAXTER & WOODMAN**  
Consulting Engineers

11450 COMPAQ CENTER WEST DRIVE, SUITE 660  
HOUSTON, TEXAS 77070 • (281)350-7027  
www.baxterwoodman.com • TBPELS FIRM No. F-21783

BAXTER & WOODMAN  
11450 COMPAQ CENTER  
WEST DR. SUITE 660  
HOUSTON, TEXAS 77070  
(281)350-7027  
TBPELS FIRM No. F-21783

ISSUED FOR INTERIM REVIEW ONLY

THIS PLAN IS NOT COMPLETE AND IS NOT INTENDED FOR BIDDING, CONSTRUCTION, OR PERMIT PURPOSES.

ENGINEER: JANICE C. NOELDNER  
TX. LICENSE No. 131967  
ISSUED: February 2026

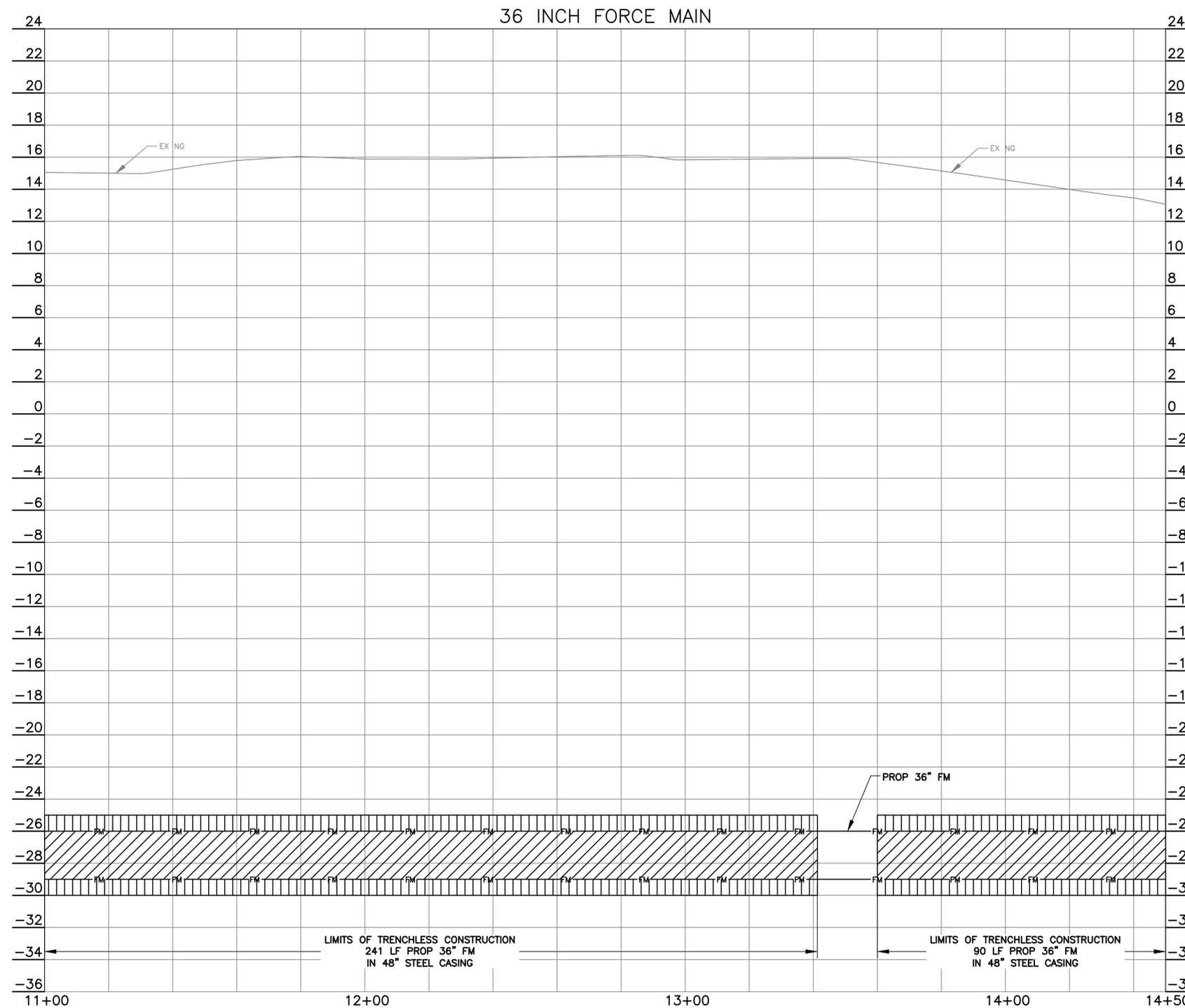
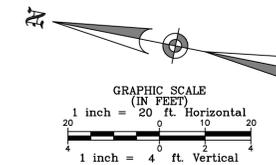
**CITY OF HOUSTON**  
HOUSTON PUBLIC WORKS

CITY OF HOUSTON  
FORCE MAIN REHABILITATION AND RECONSTRUCTION -  
GOODYEAR AND SCARSDALE LIFT STATIONS

PLAN  
36 INCH FORCE MAIN  
(STA 11+00 TO 14+50)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
S-000100-0019	
DRAWING SCALE	
X"=XXX' H X"=XXX' V	
CITY OF HOUSTON PM	
MARIA GEORGE, P.E.	
SHEET NO. 17 OF 40	

P:\HOUSCA\2326078-Force Main Rehab and\CAD\01\_Civil\_3D\01\_Shts-Plans\11-24\_GOODYEAR FM PLAN\_PROFILE SHTS.dwg, 2/9/2026 11:05:02 AM, Bob Juliano



GOODYEAR BENCHMARK:  
CITY OF HOUSTON SITE CONTROL MONUMENT 5655-8311, LOCATED BY NORTH CURB OF LAWNDALE AVENUE, APPROXIMATE 260 FEET EAST GOODYEAR STREET.  
ELEV.= 12.02' (NAVD88, GEOID 18)

SCARSDALE BENCHMARK:  
CITY OF HOUSTON SITE CONTROL MONUMENT 5750-8615 (HARRIS COUNTY FLOODPLAIN RM NO. 010480), LOCATED ON NORTHWEST CORNER OF BRIDGE SIDEWALK ON SAGEGLEN DRIVE OVER TURKEY CREEK.  
ELEV.= 31.93' (NAVD88, GEOID 18)

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**VERIFICATION OF PRIVATE UTILITY LINES**

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AT&T TEXAS/SWBT UTILITY LINES SHOWN  
Date: \_\_\_\_\_  
Approved for AT&T Texas/SWBT underground conduit facilities only.  
Signature valid for one year.

**BAXTER & WOODMAN**  
Consulting Engineers

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(281)350-7027  
TPPELS FIRM No. F-21783

ISSUED FOR INTERIM REVIEW ONLY

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SURVEYED BY: LANDTECH  
FB NO. XXXX

ENGINEER: JANICE C. NOELDNER  
TX. LICENSE No. 131967  
ISSUED: February 2026

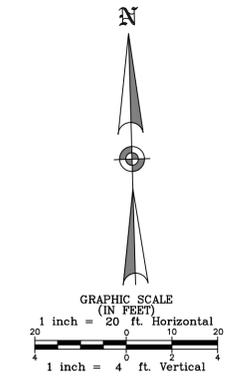
**CITY OF HOUSTON**  
HOUSTON PUBLIC WORKS

CITY OF HOUSTON  
FORCE MAIN REHABILITATION AND RECONSTRUCTION -  
GOODYEAR AND SCARSDALE LIFT STATIONS

PROFILE  
36 INCH FORCE MAIN  
(STA 11+00 TO 14+50)

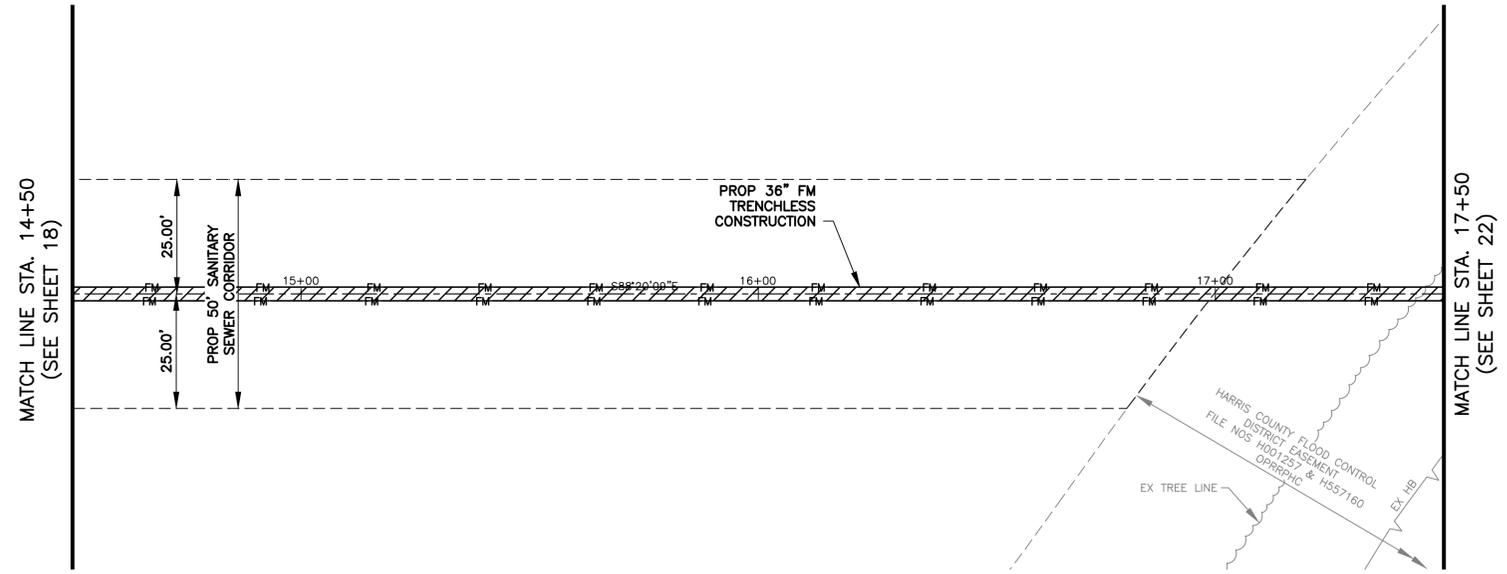
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
1"=20' H 1"=4' V	
CITY OF HOUSTON PM	
MARIA GEORGE, P.E.	
SHEET NO. 18 OF 40	

P:\HOUSCA\2326078-Force Main Rehab and\CAD\01\_Civil\_3D\01\_Shts-Plans\11-24\_GOODYEAR FM PLAN\_PROFILE\_SHTS.dwg, 2/9/2026 11:05:02 AM, Bob Juliano



GOODYEAR BENCHMARK:  
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SCARSDALE BENCHMARK:  
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**VERIFICATION OF PRIVATE UTILITY LINES**

Centerpoint Energy Natural Gas Utilities Shown, (Gas Service Lines are Not Shown.)  
 This signature not to be used for conflict verification.  
 Signature valid for six months.

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.

AT&T Texas/SWBT Utility Lines Shown

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

**BAXTER & WOODMAN**  
 Consulting Engineers

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 www.baxterwoodman.com • TPPELS FIRM No. F-21783

BAXTER & WOODMAN  
 11450 COMPAQ CENTER  
 WEST DR. SUITE 660  
 HOUSTON, TEXAS 77070  
 (281)350-7027  
 TPPELS FIRM No. F-21783

ISSUED FOR INTERIM REVIEW ONLY

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ENGINEER: JANICE C. NOELDNER  
 TX. LICENSE No. 131967  
 ISSUED: February 2026

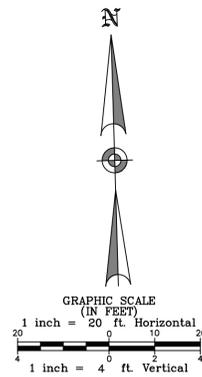
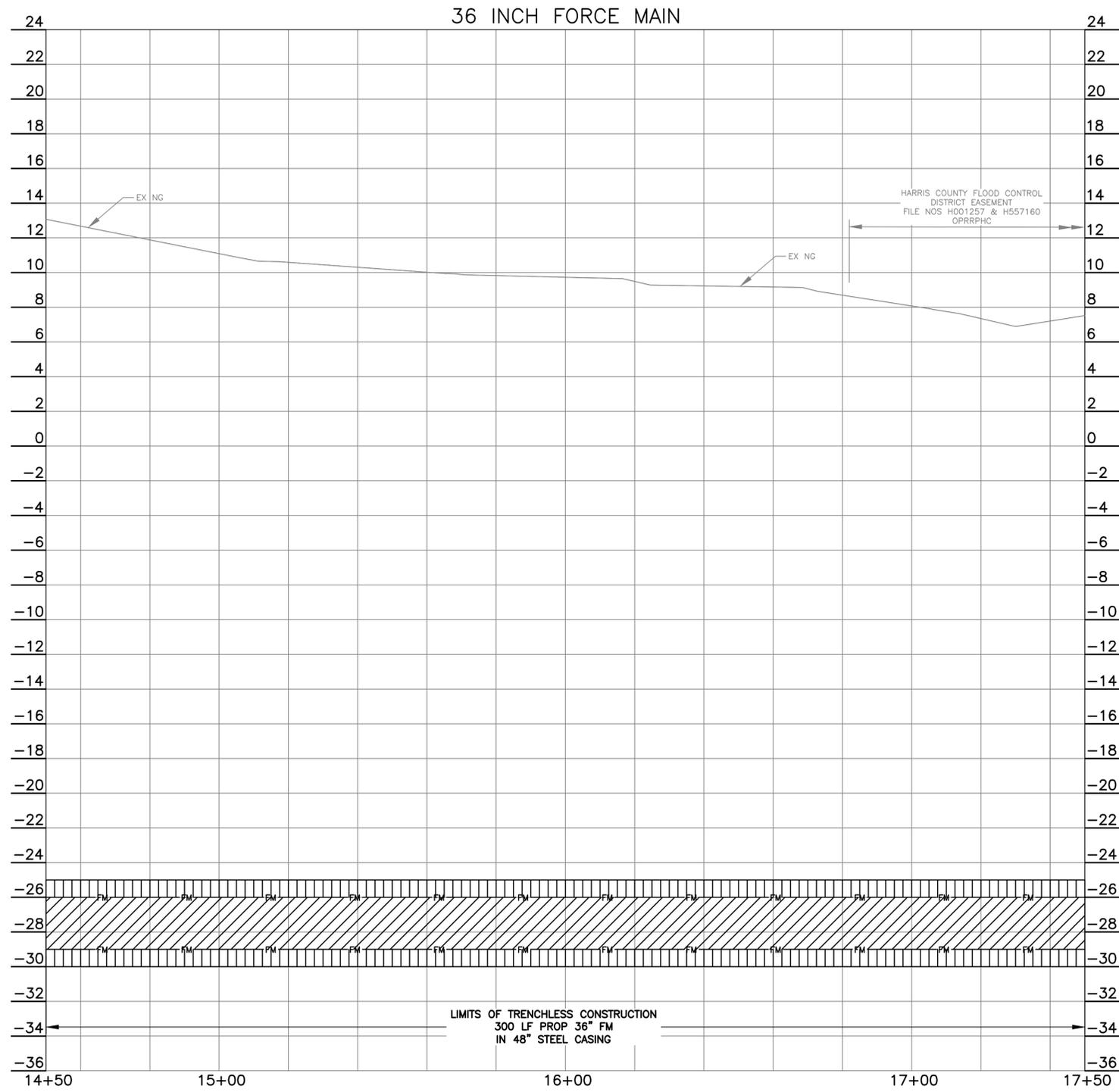
**CITY OF HOUSTON**  
 HOUSTON PUBLIC WORKS

CITY OF HOUSTON  
 FORCE MAIN REHABILITATION AND RECONSTRUCTION -  
 GOODYEAR AND SCARSDALE LIFT STATIONS

**PLAN**  
 36 INCH FORCE MAIN  
 (STA 14+50 TO 17+50)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
S-000100-0019	
DRAWING SCALE	
X"=XXX' H X"=XXX' V	
CITY OF HOUSTON PM	
MARIA GEORGE, P.E.	
SHEET NO. 19 OF 40	

P:\HOUS\2326078-Force Main Rehab and\CAD\01\_Civil\_3D\01\_Shts-Plans\11-24\_GOODYEAR FM PLAN\_PROFILE\_SHTS.dwg, 2/9/2026 11:05:04 AM, Bob Juliano



GOODYEAR BENCHMARK:  
CITY OF HOUSTON SITE CONTROL MONUMENT 5655-8311, LOCATED BY NORTH CURB OF LAWNDALE AVENUE, APPROXIMATE 260 FEET EAST GOODYEAR STREET.  
ELEV.= 12.02' (NAVD88, GEOID 18)

SCARSDALE BENCHMARK:  
CITY OF HOUSTON SITE CONTROL MONUMENT 5750-8615 (HARRIS COUNTY FLOODPLAIN RM NO. 010460), LOCATED ON NORTHWEST CORNER OF BRIDGE SIDEWALK ON SAGEGLEN DRIVE OVER TURKEY CREEK.  
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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 TO 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.

AT&T TEXAS/SWBT UTILITY LINES SHOWN  
Date: \_\_\_\_\_  
Approved for AT&T Texas/SWBT underground conduit facilities only.  
Signature valid for one year.

**BAXTER & WOODMAN**  
Consulting Engineers

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HOUSTON, TEXAS 77070 • (281)350-7027  
www.baxterwoodman.com • TPPELS FIRM No. F-21783

BAXTER & WOODMAN  
11450 COMPAQ CENTER  
WEST DR. SUITE 660  
HOUSTON, TEXAS 77070  
(281)350-7027  
TPPELS FIRM No. F-21783

ISSUED FOR INTERIM REVIEW ONLY

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SURVEYED BY: LANDTECH  
FB NO. XXXX

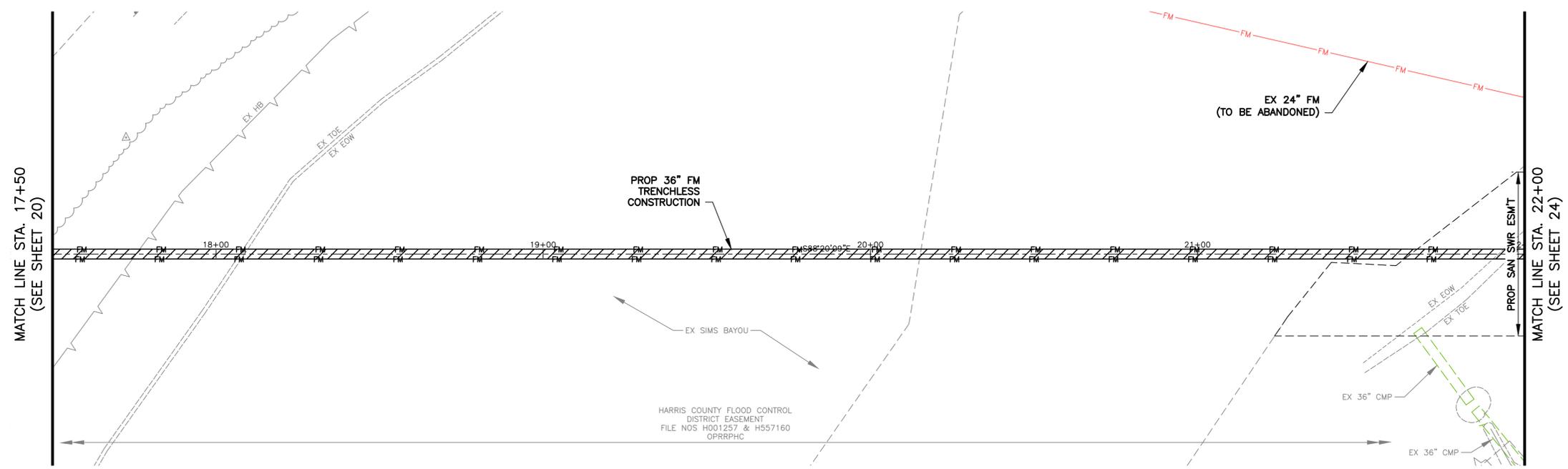
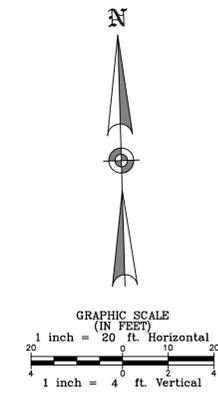
ENGINEER: JANICE C. NOELDNER  
TX. LICENSE No. 131967  
ISSUED: February 2026

**CITY OF HOUSTON**  
HOUSTON PUBLIC WORKS

CITY OF HOUSTON  
FORCE MAIN REHABILITATION AND RECONSTRUCTION -  
GOODYEAR AND SCARSDALE LIFT STATIONS

PROFILE  
36 INCH FORCE MAIN  
(STA 14+50 TO 17+50)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
S-000100-0019	
DRAWING SCALE	
1"=20' H 1"=4' V	
CITY OF HOUSTON PM	
MARIA GEORGE, P.E.	
SHEET NO. 20 OF 40	



GOODYEAR BENCHMARK:  
CITY OF HOUSTON SITE CONTROL MONUMENT 5655-8311, LOCATED BY NORTH CURB OF LAWNDALE AVENUE, APPROXIMATE 260 FEET EAST GOODYEAR STREET.  
ELEV.= 12.02' (NAVD88, GEOID 18)

SCARSDALE BENCHMARK:  
CITY OF HOUSTON SITE CONTROL MONUMENT 5750-8615 (HARRIS COUNTY FLOODPLAIN RM NO. 010480), LOCATED ON NORTHWEST CORNER OF BRIDGE SIDEWALK ON SAGEGLEN DRIVE OVER TURKEY CREEK.  
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VERIFICATION OF PRIVATE UTILITY LINES	
Centerpoint Energy Natural Gas Utilities Shown, (Gas Service Lines are Not Shown.) <small>THIS SIGNATURE NOT TO BE USED FOR CONFLICT VERIFICATION.</small>	Date: _____ SIGNATURE VALID FOR SIX MONTHS.
Centerpoint Energy/Underground Electrical Facilities Verification Only. <small>(This signature verifies existing underground facilities—not to be used for conflict verification.)</small>	Date: _____ SIGNATURE VALID FOR SIX MONTHS.
AT&T Texas/SWBT Utility Lines Shown	Date: _____ <small>Approved for AT&amp;T Texas/SWBT underground conduit facilities only. Signature valid for one year.</small>

**BAXTER & WOODMAN**  
Consulting Engineers

11450 COMPAQ CENTER WEST DRIVE, SUITE 660  
HOUSTON, TEXAS 77070 • (281)350-7027  
www.baxterwoodman.com • TPPELS FIRM No. F-21783

BAXTER & WOODMAN 11450 COMPAQ CENTER WEST DR. SUITE 660 HOUSTON, TEXAS 77070 (281)350-7027 TPPELS FIRM No. F-21783	<b>ISSUED FOR INTERIM REVIEW ONLY</b>  THIS PLAN IS NOT COMPLETE AND IS NOT INTENDED FOR BIDDING, CONSTRUCTION, OR PERMIT PURPOSES.
SURVEYED BY: LANDTECH FB NO. XXXX	ENGINEER: JANICE C. NOELDNER TX. LICENSE No. 131967 ISSUED: February 2026

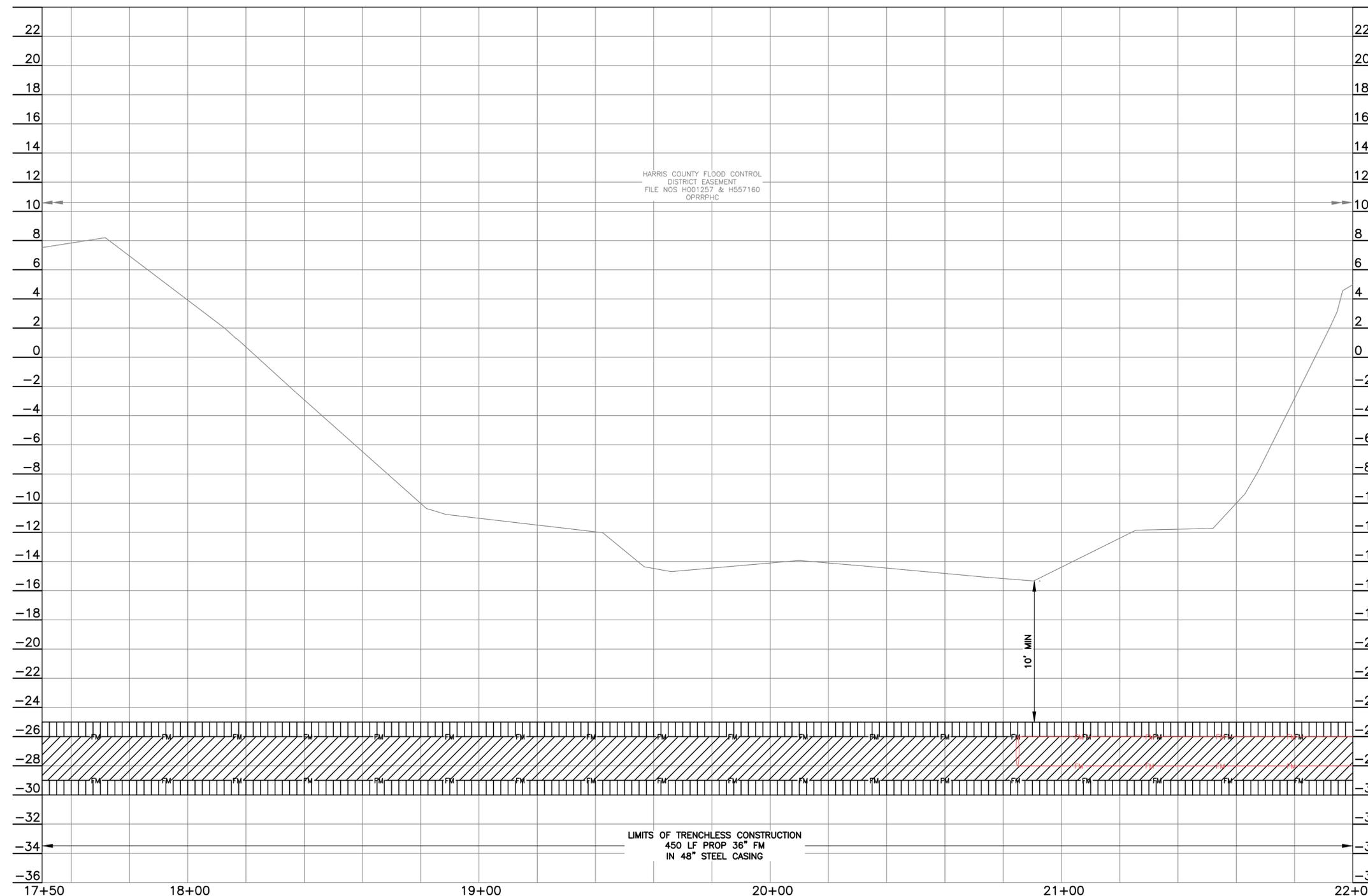
**CITY OF HOUSTON**  
HOUSTON PUBLIC WORKS

CITY OF HOUSTON  
FORCE MAIN REHABILITATION AND RECONSTRUCTION -  
GOODYEAR AND SCARSDALE LIFT STATIONS

**PLAN**  
**36 INCH FORCE MAIN**  
**(STA 17+50 TO 22+00)**

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
S-000100-0019	
DRAWING SCALE	
X"=XXX' H X"=XXX' V	
CITY OF HOUSTON PM	
MARIA GEORGE, P.E.	
SHEET NO. 21 OF 40	

P:\HOUSCA\2326078-Force Main Rehab and\CAD\01\_Civil\_3D\01\_Shts-Plans\1-24\_GOODYEAR FM PLAN\_PROFILE SHTS.dwg, 2/9/2026 11:05:05 AM, Bob Juliano



GOODYEAR BENCHMARK:  
CITY OF HOUSTON SITE CONTROL MONUMENT 5655-8311, LOCATED BY NORTH CURB OF LAWNDALE AVENUE, APPROXIMATE 260 FEET EAST GOODYEAR STREET.  
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SCARSDALE BENCHMARK:  
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**VERIFICATION OF PRIVATE UTILITY LINES**

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Date: \_\_\_\_\_  
CENTERPOINT ENERGY/UNDERGROUND ELECTRICAL FACILITIES VERIFICATION ONLY.  
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AT&T TEXAS/SWBT UTILITY LINES SHOWN  
Date: \_\_\_\_\_  
Approved for AT&T Texas/SWBT underground conduit facilities only.  
Signature valid for one year.

**BAXTER & WOODMAN**  
Consulting Engineers

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HOUSTON, TEXAS 77070  
(281)350-7027  
TBPELS FIRM No. F-21783

**ISSUED FOR INTERIM REVIEW ONLY**

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SURVEYED BY: LANDTECH  
FB NO. XXXX

ENGINEER: JANICE C. NOELDNER  
TX. LICENSE No. 131967  
ISSUED: February 2026

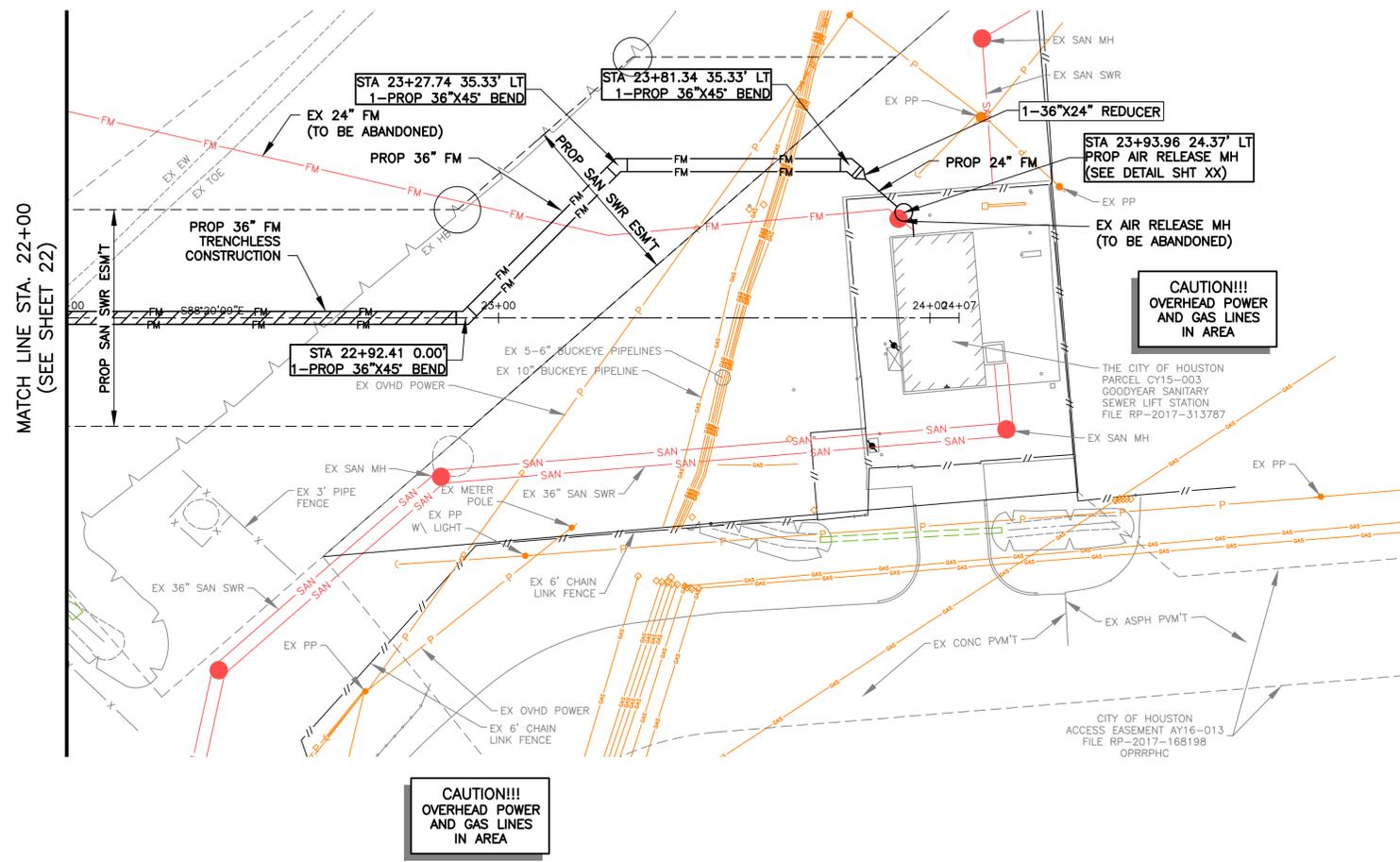
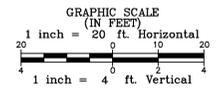
**CITY OF HOUSTON**  
HOUSTON PUBLIC WORKS

CITY OF HOUSTON  
FORCE MAIN REHABILITATION AND RECONSTRUCTION -  
GOODYEAR AND SCARSDALE LIFT STATIONS

**PROFILE**  
36 INCH FORCE MAIN  
(STA 17+50 TO 22+00)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
S-000100-0019	
DRAWING SCALE	
1"=20' H 1"=4' V	
CITY OF HOUSTON PM	
MARIA GEORGE, P.E.	
SHEET NO. 22 OF 40	

P:\HOUS\2326078-Force Main Rehab and\CAD\01\_Civil\_3D\01\_Shis-Plans\11-24\_GOODYEAR FM PLAN\_PROFILE\_SHTS.dwg, 2/9/2026 11:05:05 AM, Bob Juliano



GOODYEAR BENCHMARK:  
CITY OF HOUSTON SITE CONTROL MONUMENT 5655-8311, LOCATED BY NORTH CURB OF LAUNDALD AVENUE, APPROXIMATE 260 FEET EAST GOODYEAR STREET.  
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SCARSDALE BENCHMARK:  
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AT&T TEXAS/SWBT UTILITY LINES SHOWN  
Date: \_\_\_\_\_

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Consulting Engineers

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SURVEYED BY: LANDTECH  
FB NO. XXXX

ENGINEER: JANICE C. NOELDNER  
TX. LICENSE No. 131967  
ISSUED: February 2026

**CITY OF HOUSTON**  
HOUSTON PUBLIC WORKS

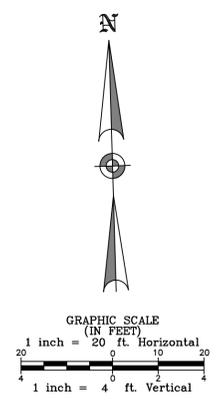
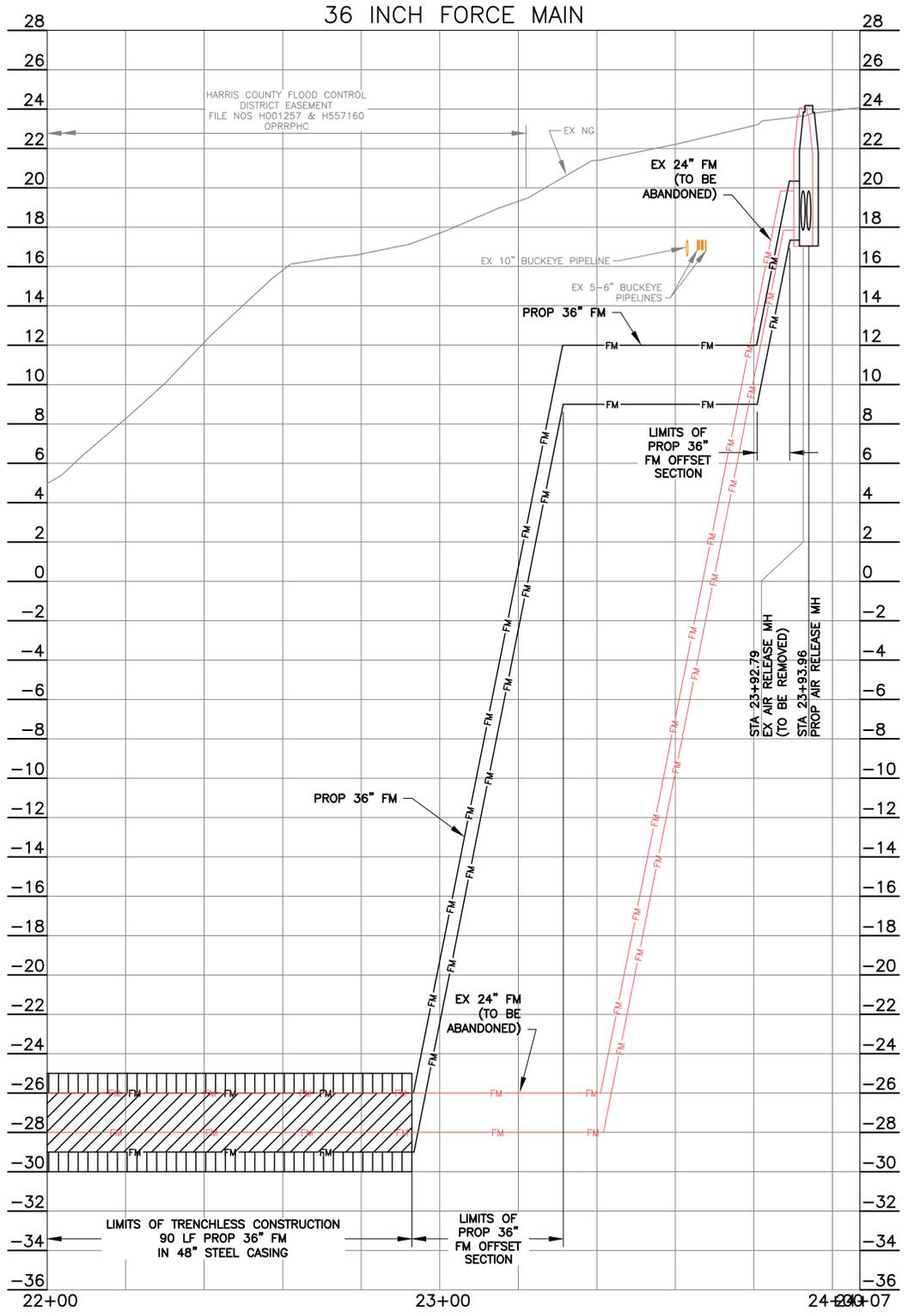
CITY OF HOUSTON  
FORCE MAIN REHABILITATION AND RECONSTRUCTION -  
GOODYEAR AND SCARSDALE LIFT STATIONS

**PLAN**  
36 INCH FORCE MAIN  
(STA 22+00 TO END)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
S-000100-0019	
DRAWING SCALE	
X"=XXX' H X"=XXX' V	
CITY OF HOUSTON PM	
MARIA GEORGE, P.E.	
SHEET NO. 23 OF 40	

P:\HOUS\2326075-Force Main Rehab and\CAD\01\_Civil\_3D\01\_Shts-Plans\1-24\_GOODYEAR FM PLAN\_PROFILE SHTS.dwg, 2/9/2026 11:05:06 AM, Bob Juliano

P:\HOUSCA\2326678-Force Main Rehab and\CAD\01\_Civil\3D\01\_Shts-Plans\11-24\_GOODYEAR FM PLAN\_PROFILE\_SHTS.dwg, 2/9/2026 11:05:07 AM, Bob Juliano



GOODYEAR BENCHMARK:  
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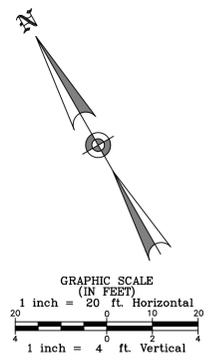
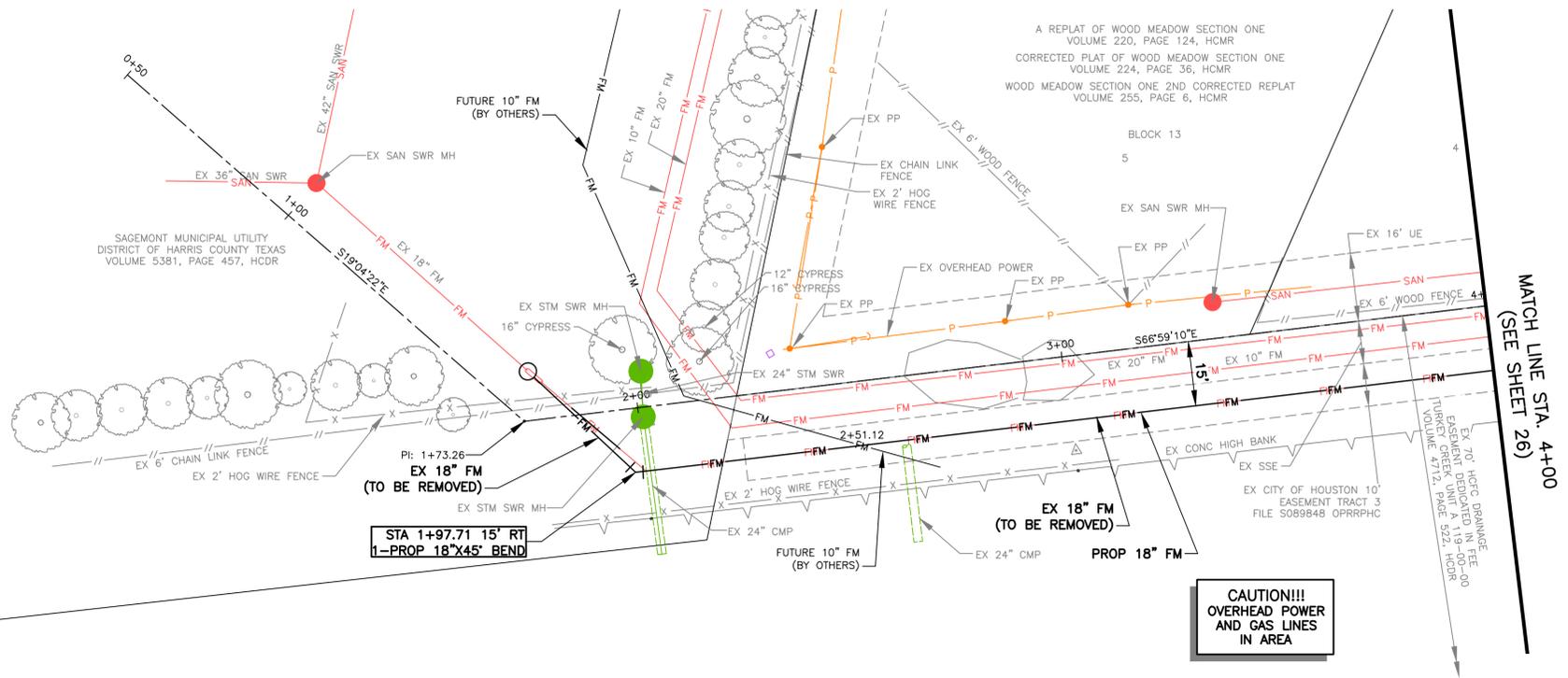
VERIFICATION OF PRIVATE UTILITY LINES	
Date:	
CENTERPOINT ENERGY NATURAL GAS UTILITIES SHOWN. (GAS SERVICE LINES ARE NOT SHOWN.) THIS SIGNATURE NOT TO BE USED FOR CONFLICT VERIFICATION.	SIGNATURE VALID FOR SIX MONTHS.
Date:	
CENTERPOINT ENERGY/UNDERGROUND ELECTRICAL FACILITIES VERIFICATION ONLY. (This signature verifies existing underground facilities—not to be used for conflict verification.)	SIGNATURE VALID FOR SIX MONTHS.
AT&T TEXAS/SWBT UTILITY LINES SHOWN	Date:
Approved for AT&T Texas/SWBT underground conduit facilities only. Signature valid for one year.	

**BAXTER & WOODMAN**  
Consulting Engineers

11450 COMPAQ CENTER WEST DRIVE, SUITE 660  
HOUSTON, TEXAS 77070 • (281)350-7027  
www.baxterwoodman.com • TPPELS FIRM No. F-21783

BAXTER & WOODMAN 11450 COMPAQ CENTER WEST DR. SUITE 660 HOUSTON, TEXAS 77070 (281)350-7027 TPPELS FIRM No. F-21783	<b>ISSUED FOR INTERIM REVIEW ONLY</b>  THIS PLAN IS NOT COMPLETE AND IS NOT INTENDED FOR BIDDING, CONSTRUCTION, OR PERMIT PURPOSES.
SURVEYED BY: LANDTECH FB NO. XXXX	ENGINEER: JANICE C. NOELDNER TX LICENSE No. 131967 ISSUED: February 2026

<b>CITY OF HOUSTON</b> HOUSTON PUBLIC WORKS	
CITY OF HOUSTON FORCE MAIN REHABILITATION AND RECONSTRUCTION - GOODYEAR AND SCARSDALE LIFT STATIONS	
<b>PROFILE</b> 36 INCH FORCE MAIN (STA 22+00 TO END)	
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
S-000100-0019	
DRAWING SCALE	
1"=20' H 1"=4' V	
CITY OF HOUSTON PM	
MARIA GEORGE, P.E.	
SHEET NO. 24 OF 40	



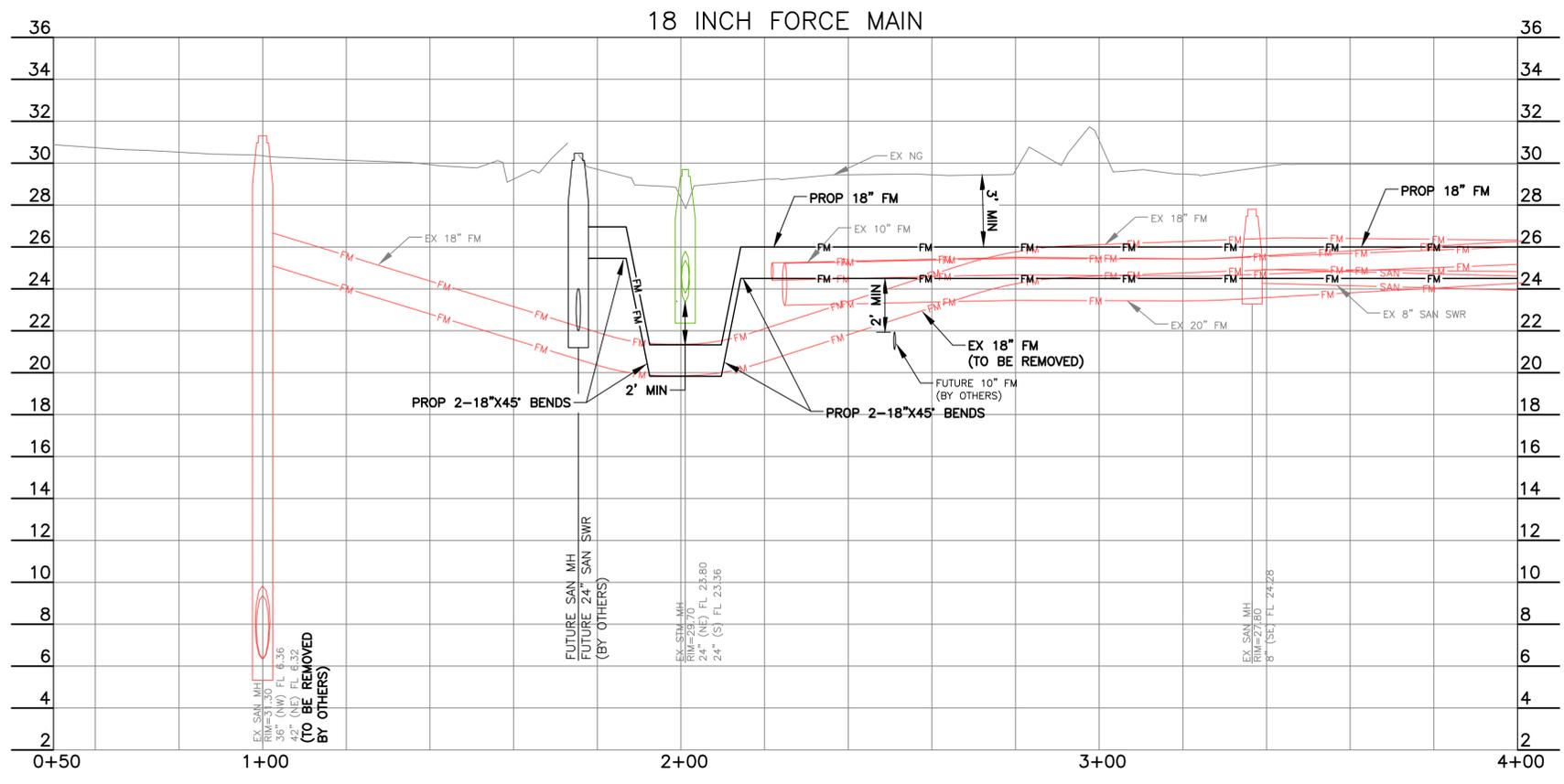
- NOTES:**
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**GOODYEAR BENCHMARK:**  
 CITY OF HOUSTON SITE CONTROL MONUMENT 5655-8311, LOCATED BY NORTH CURB OF LAUNDLE AVENUE, APPROXIMATE 260 FEET EAST GOODYEAR STREET.  
 ELEV.= 12.02' (NAVD88, GEOID 18)

**SCARSDALE BENCHMARK:**  
 CITY OF HOUSTON SITE CONTROL MONUMENT 5750-8615 (HARRIS COUNTY FLOODPLAIN RM NO. 010460), LOCATED ON NORTHWEST CORNER OF BRIDGE SIDEWALK ON SAGELEN DRIVE OVER TURKEY CREEK.  
 ELEV.= 31.93' (NAVD88, GEOID 18)

**CAUTION!!!  
 OVERHEAD POWER  
 AND GAS LINES  
 IN AREA**

A 48 HOUR NOTICE TO HARRIS COUNTY FLOOD CONTROL DISTRICT DEVELOPMENT COORDINATION AND INSPECTION DEPARTMENT IS REQUIRED BEFORE BEGINNING CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO OBTAIN ALL NECESSARY PERMITS BEFORE BEGINNING CONSTRUCTION.



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ENGINEER: JANICE C. NOELDNER  
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 ISSUED: February 2026

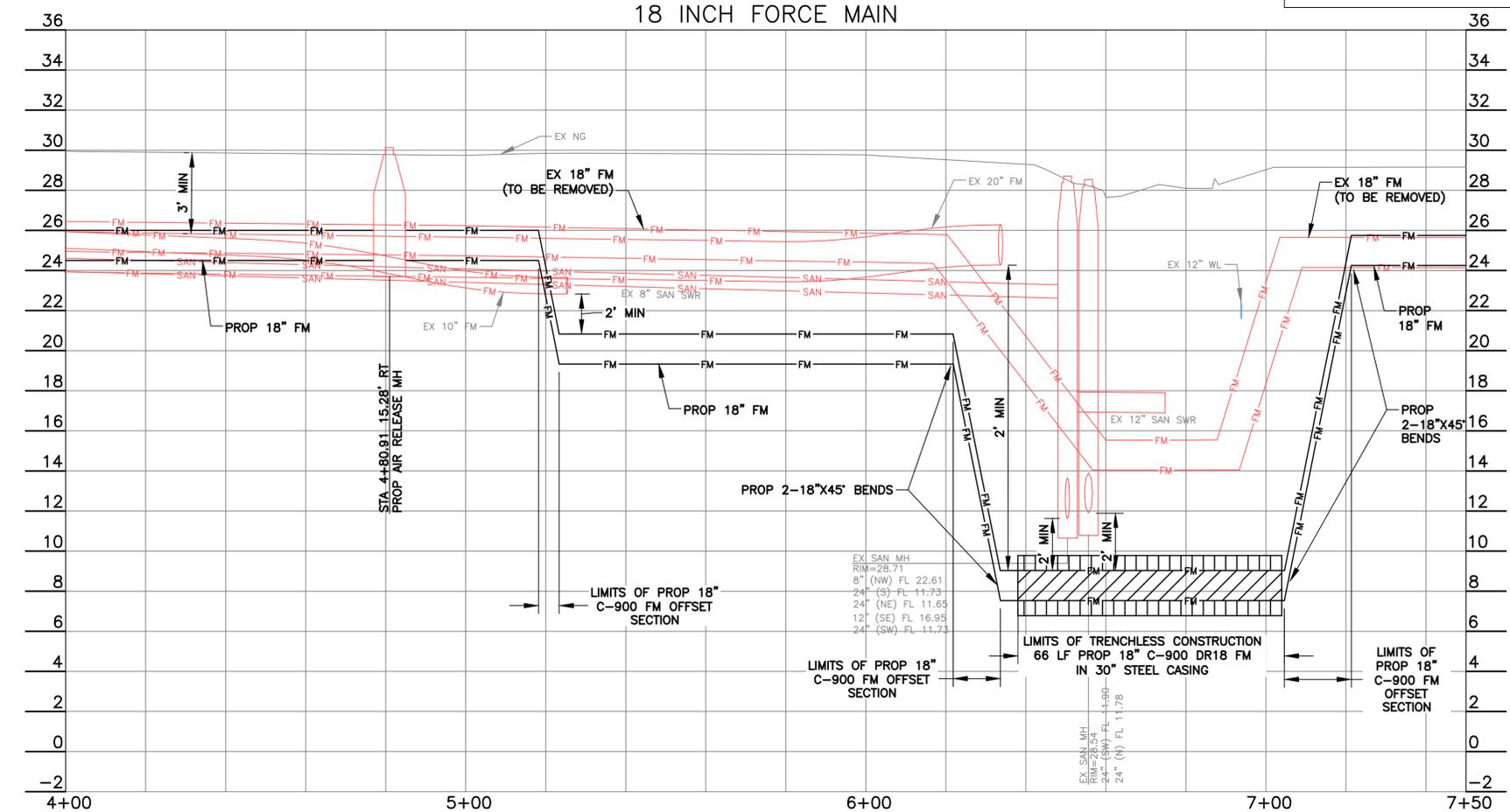
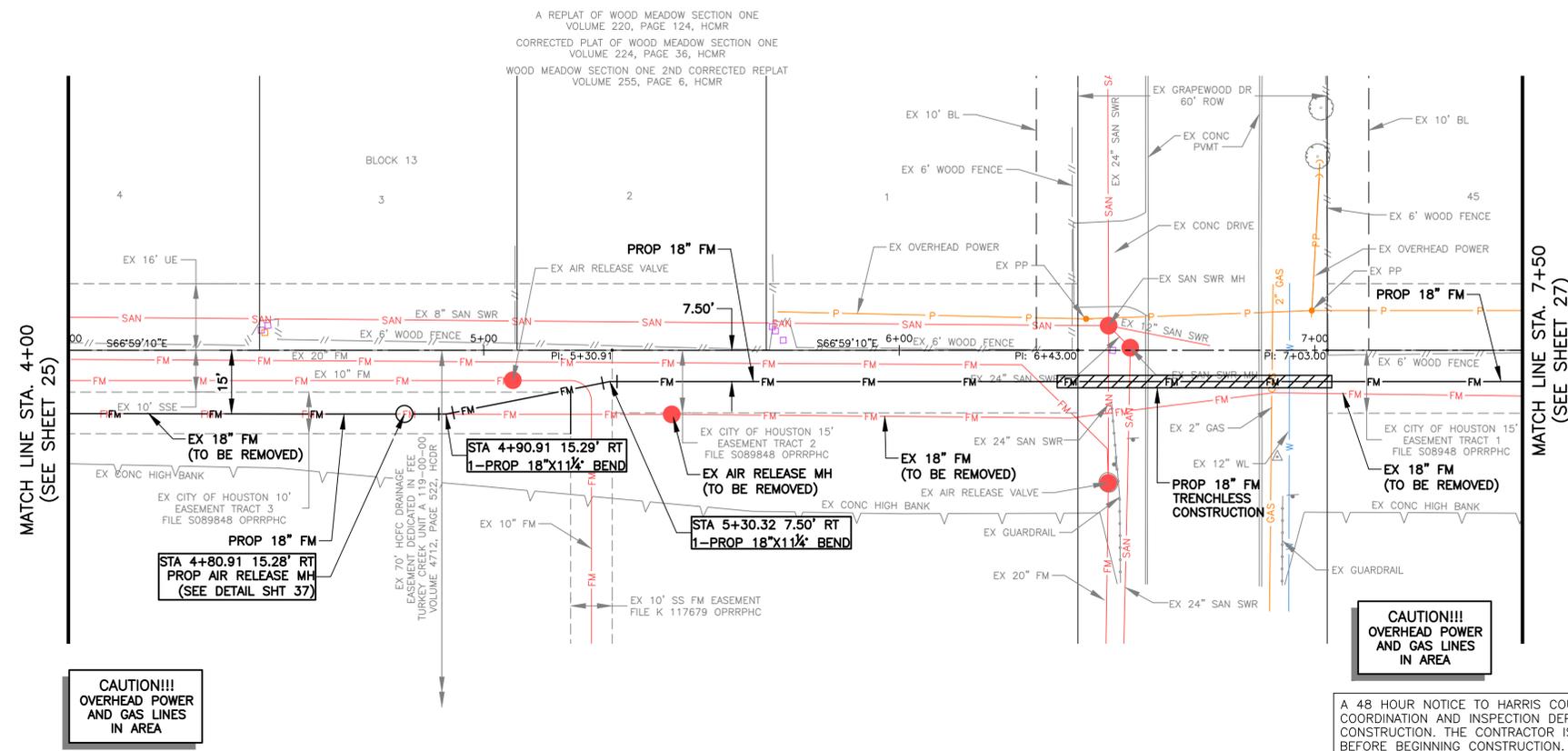
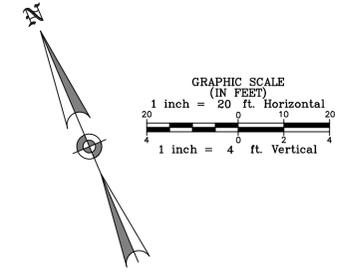
**CITY OF HOUSTON**  
 HOUSTON PUBLIC WORKS

CITY OF HOUSTON  
 FORCE MAIN REHABILITATION AND RECONSTRUCTION -  
 GOODYEAR AND SCARSDALE LIFT STATIONS

**18 INCH FORCE MAIN  
 (STA 0+50 TO 4+00)**

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
S-000100-0019	
DRAWING SCALE	
1"=20' H 1"=4' V	
CITY OF HOUSTON PM	
MARIA GEORGE, P.E.	
SHEET NO. 25 OF 40	

P:\HOUSCA\2326078-Force Main Rehab and\CAD\01\_Civil\_3D\01\_Shts-Plans\25-30\_18 INCH FORCE MAIN STA 0+50.00 TO 18+90.06.dwg, 2/9/2026 1:45:12 PM, Bob Juliano



4+00 5+00 6+00 7+00 7+50

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**GOODYEAR BENCHMARK:**  
CITY OF HOUSTON SITE CONTROL MONUMENT 5655-8311, LOCATED BY NORTH CURB OF LAWNDALE AVENUE, APPROXIMATE 260 FEET EAST GOODYEAR STREET.  
ELEV.= 12.02' (NAVD88, GEOD 18)

**SCARSDALE BENCHMARK:**  
CITY OF HOUSTON SITE CONTROL MONUMENT 5750-8615 (HARRIS COUNTY FLOODPLAIN RM NO. 010460), LOCATED ON NORTHWEST CORNER OF BRIDGE SIDEWALK ON SAGELEEN DRIVE OVER TURKEY CREEK.  
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SIGNATURE VALID FOR SIX MONTHS.

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AT&T TEXAS/SWBT UTILITY LINES SHOWN  
Date: \_\_\_\_\_

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

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Consulting Engineers

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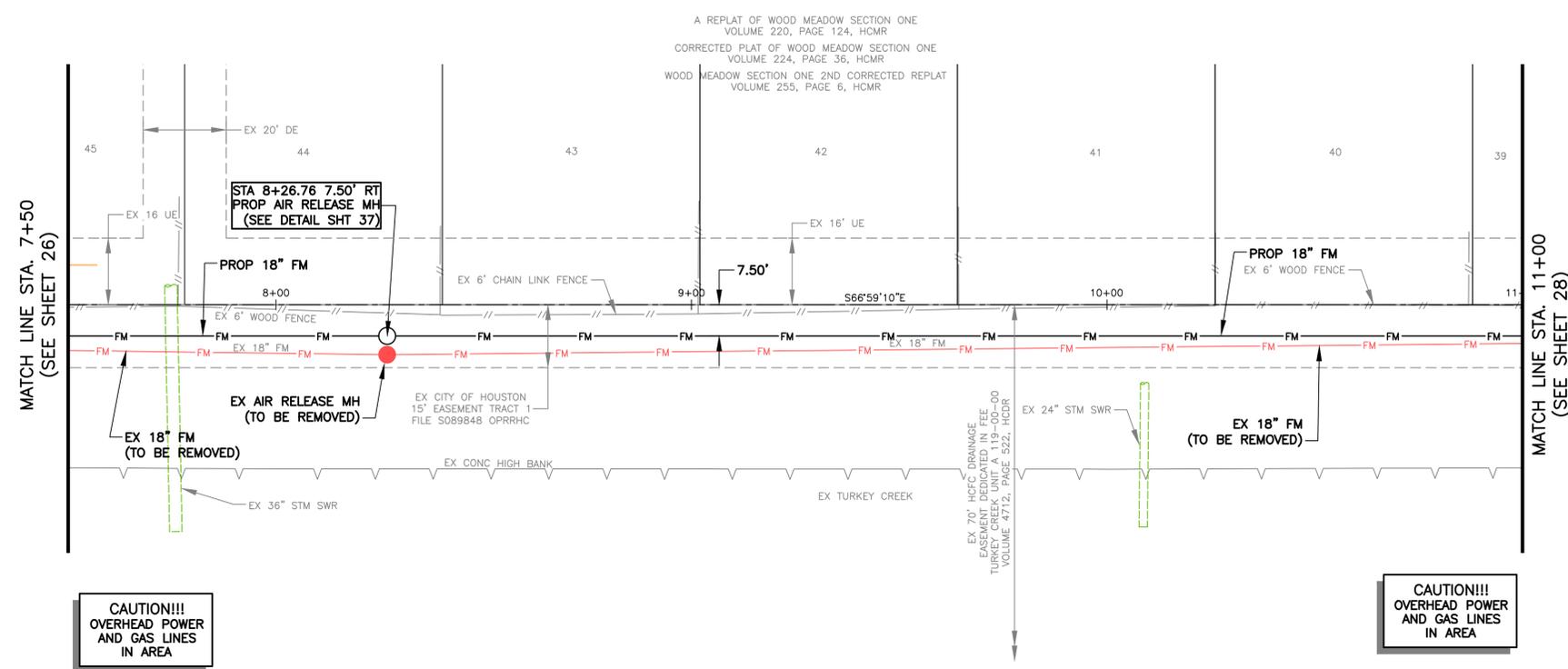
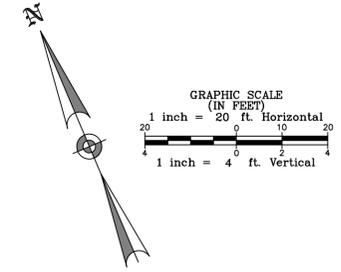
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ENGINEER: JANICE C. NOELDNER  
TX LICENSE No. 131967  
ISSUED: February 2026

<b>CITY OF HOUSTON</b> HOUSTON PUBLIC WORKS	
CITY OF HOUSTON FORCE MAIN REHABILITATION AND RECONSTRUCTION - GOODYEAR AND SCARSDALE LIFT STATIONS	
<b>18 INCH FORCE MAIN (STA 4+00 TO 7+50)</b>	
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
S-000100-0019	
DRAWING SCALE	
1"=20' H 1"=4' V	
CITY OF HOUSTON PM	
MARIA GEORGE, P.E.	
SHEET NO. 26 OF 40	

P:\HOUSTON\2326078-Force Main Rehab and\CAD\01\_Civil\_3D\01\_Shts-Plans-18 Inch Force Main STA 0+50.00 TO 18+90.00.dwg, 2/9/2026 11:05:23 AM, Bob Juliano



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**GOODYEAR BENCHMARK:**  
CITY OF HOUSTON SITE CONTROL MONUMENT 5655-8311, LOCATED BY NORTH CURB OF LAWNDALE AVENUE, APPROXIMATE 260 FEET EAST GOODYEAR STREET.  
ELEV.= 12.02' (NAVD88, GEOD 18)

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CITY OF HOUSTON SITE CONTROL MONUMENT 5750-8615 (HARRIS COUNTY FLOODPLAIN RM NO. 010460), LOCATED ON NORTHWEST CORNER OF BRIDGE SIDEWALK ON SAGEGLEN DRIVE OVER TURKEY CREEK.  
ELEV.= 31.93' (NAVD88, GEOD 18)

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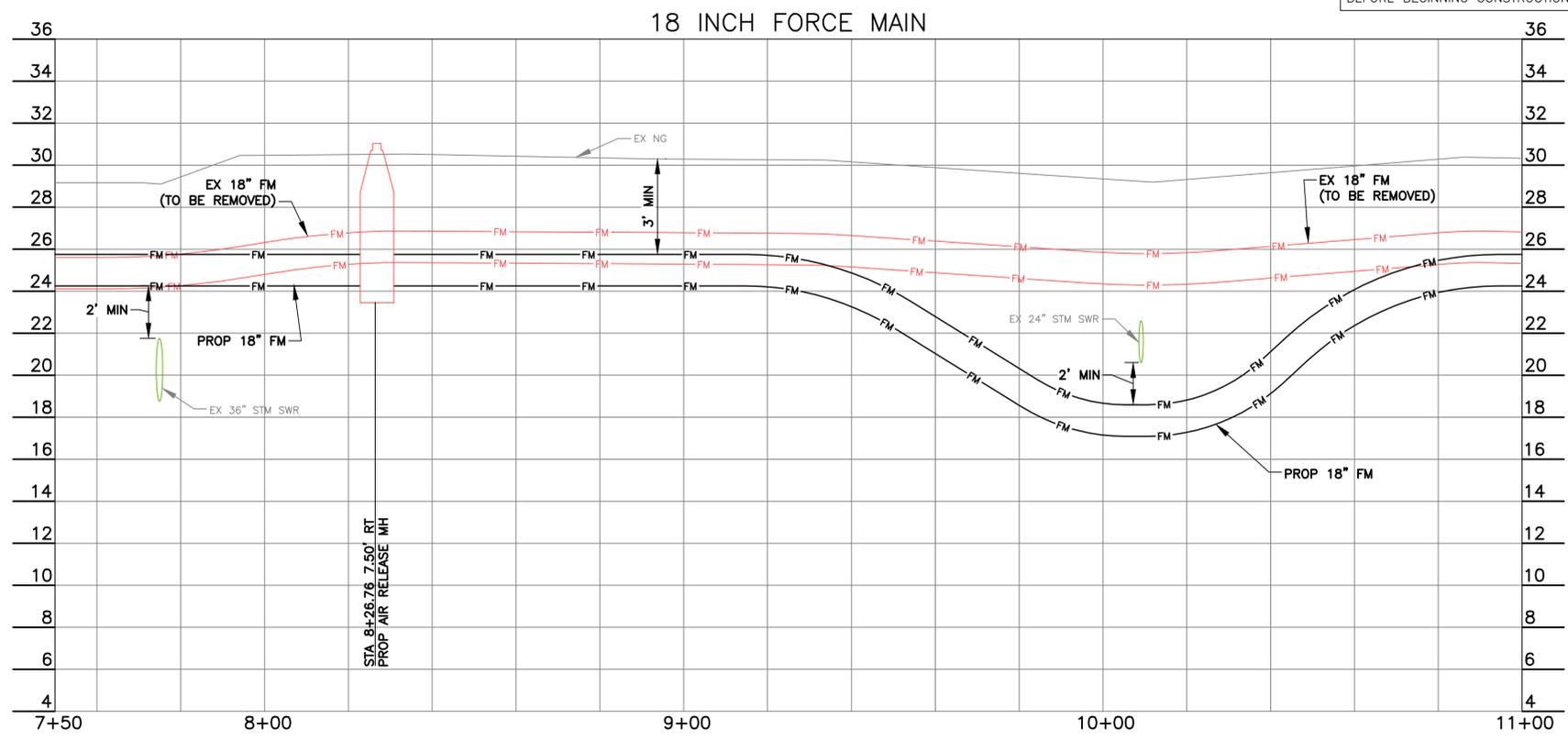
**VERIFICATION OF PRIVATE UTILITY LINES**

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AT&T TEXAS/SWBET UTILITY LINES SHOWN

Date: \_\_\_\_\_  
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Signature valid for one year.



**BAXTER & WOODMAN**  
Consulting Engineers

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ENGINEER: JANICE C. NOELDNER  
TX. LICENSE No. 131967  
ISSUED: February 2026

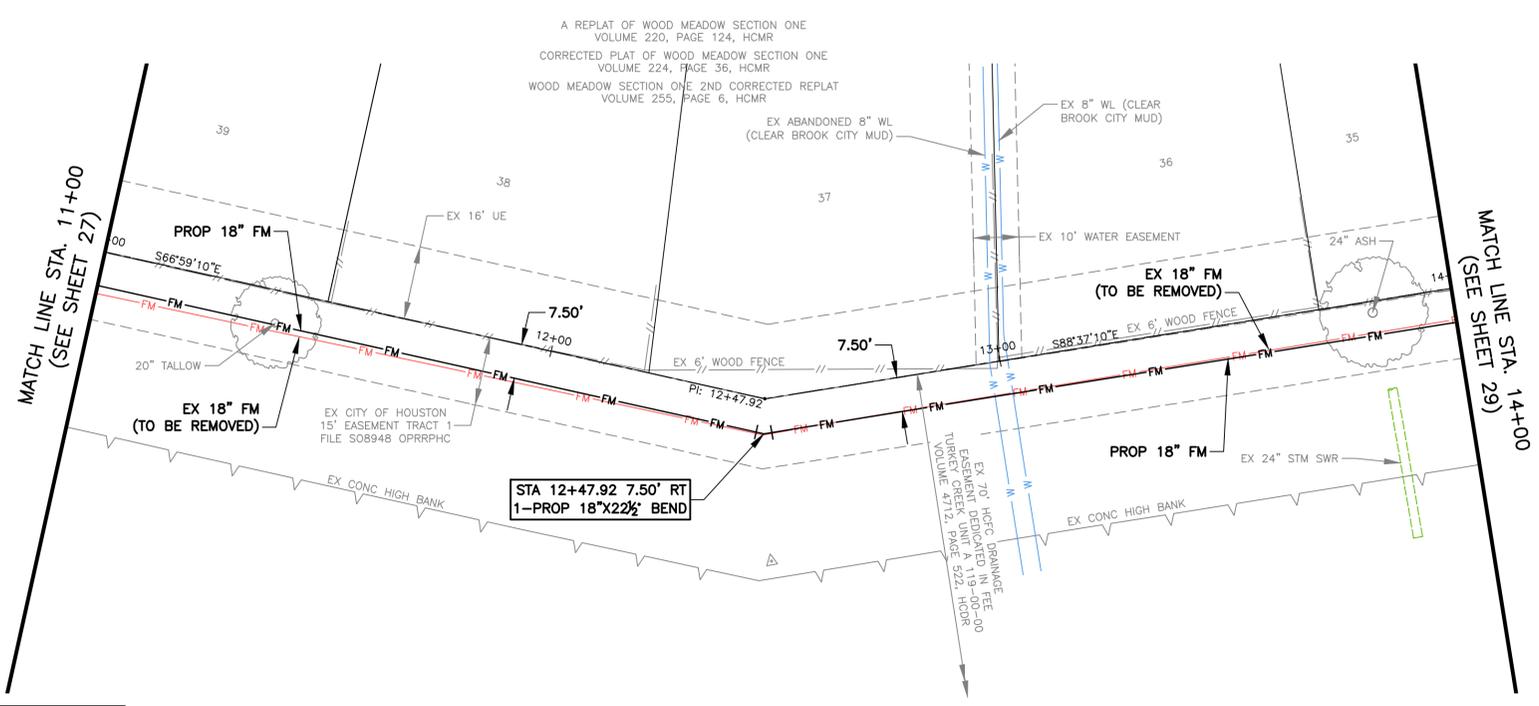
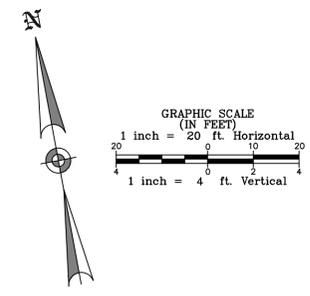
**CITY OF HOUSTON**  
HOUSTON PUBLIC WORKS

CITY OF HOUSTON  
FORCE MAIN REHABILITATION AND RECONSTRUCTION -  
GOODYEAR AND SCARSDALE LIFT STATIONS

**18 INCH FORCE MAIN  
(STA 7+50 TO 11+00)**

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
S-000100-0019	
DRAWING SCALE	
1"=20' H 1"=4' V	
CITY OF HOUSTON PM	
MARIA GEORGE, P.E.	
SHEET NO. 27 OF 40	

P:\HOUSCA\2326078-Force Main Rehab and\CAD\01\_Civil\_3D\01\_Shts-Plans\25-30\_18 INCH FORCE MAIN STA 0+50.00 TO 18+90.06.dwg, 2/9/2026 11:05:24 AM, Bob Juliano



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ELEV.= 12.02' (NAVD88, GEOID 18)

**SCARSDALE BENCHMARK:**  
CITY OF HOUSTON SITE CONTROL MONUMENT 5750-8615 (HARRIS COUNTY FLOODPLAIN RM NO. 010460), LOCATED ON NORTHWEST CORNER OF BRIDGE SIDEWALK ON SAGEGLEN DRIVE OVER TURKEY CREEK.  
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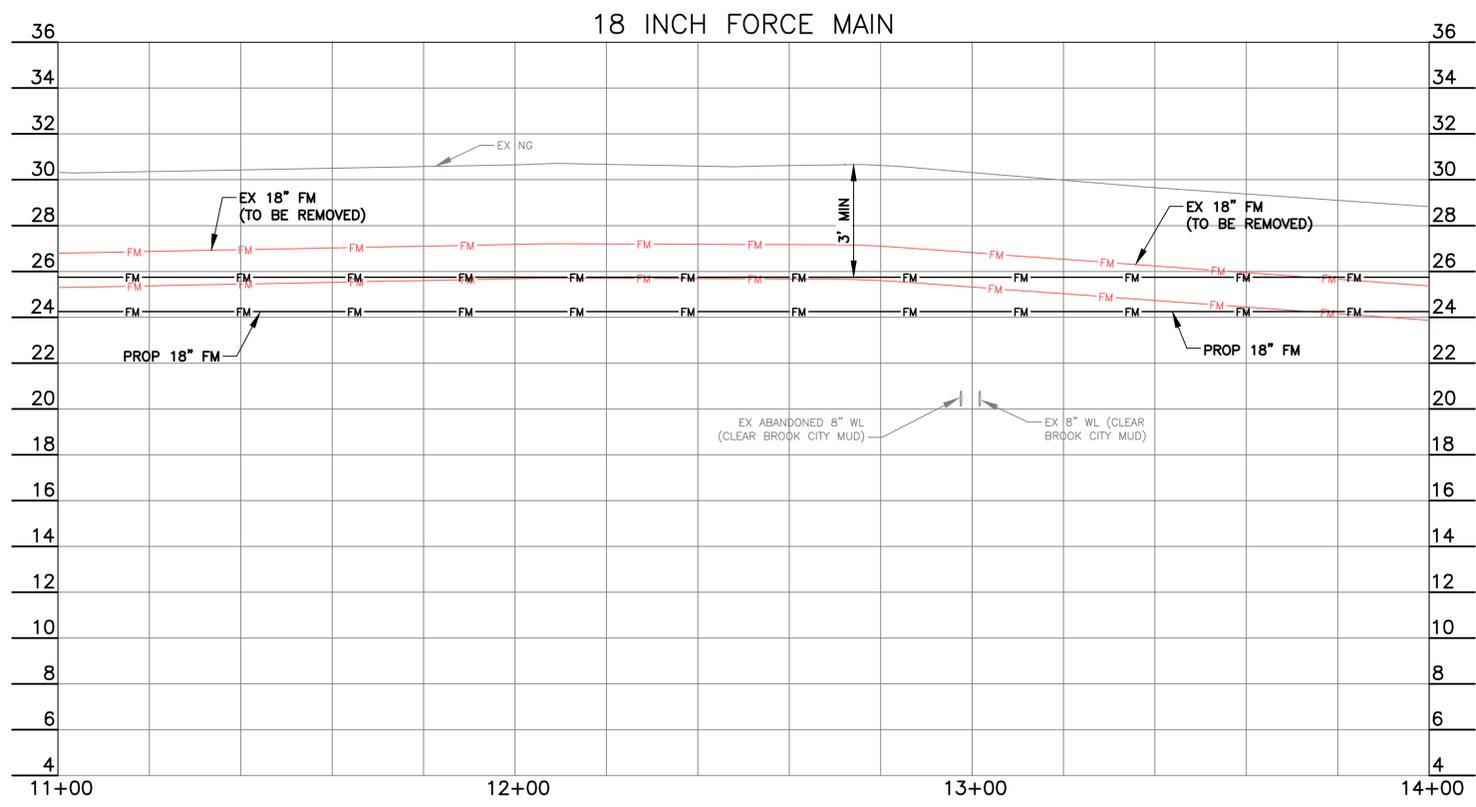
**VERIFICATION OF PRIVATE UTILITY LINES**

Centerpoint Energy Natural Gas Utilities Shown (Gas Service Lines are Not Shown).  
This signature not to be used for conflict verification.  
Signature valid for six months.

Centerpoint Energy/Underground Electrical Facilities Verification Only.  
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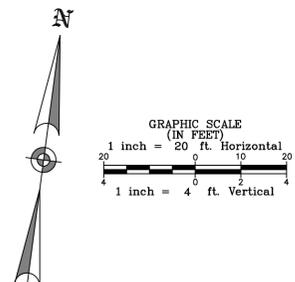
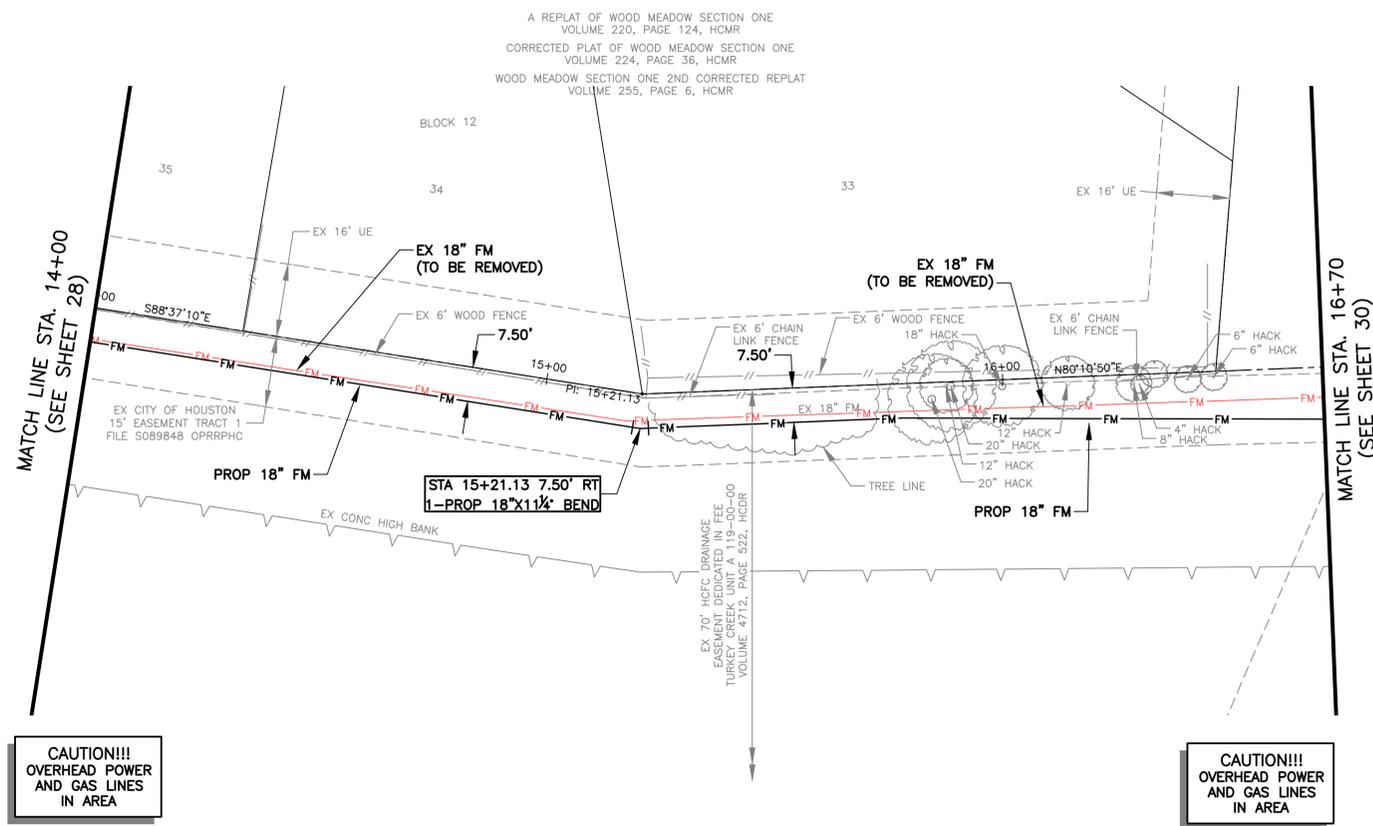
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ENGINEER: JANICE C. NOELDNER  
TX. LICENSE No. 131967  
ISSUED: February 2026

<b>CITY OF HOUSTON</b> HOUSTON PUBLIC WORKS	
CITY OF HOUSTON FORCE MAIN REHABILITATION AND RECONSTRUCTION - GOODYEAR AND SCARSDALE LIFT STATIONS	
<b>18 INCH FORCE MAIN</b> (STA 11+00 TO 14+00)	
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
S-000100-0019	
DRAWING SCALE	
1"=20' H 1"=4' V	
CITY OF HOUSTON PM	
MARIA GEORGE, P.E.	
SHEET NO. 28 OF 40	

P:\HOUSTON\2326075-Force Main Rehab and\CAD\01\_Civil\_3D\01\_Shts-Plans-18 Inch Force Main STA 0+50.00 TO 18+90.00.dwg, 2/9/2026 11:05:27 AM, Bob Juliano

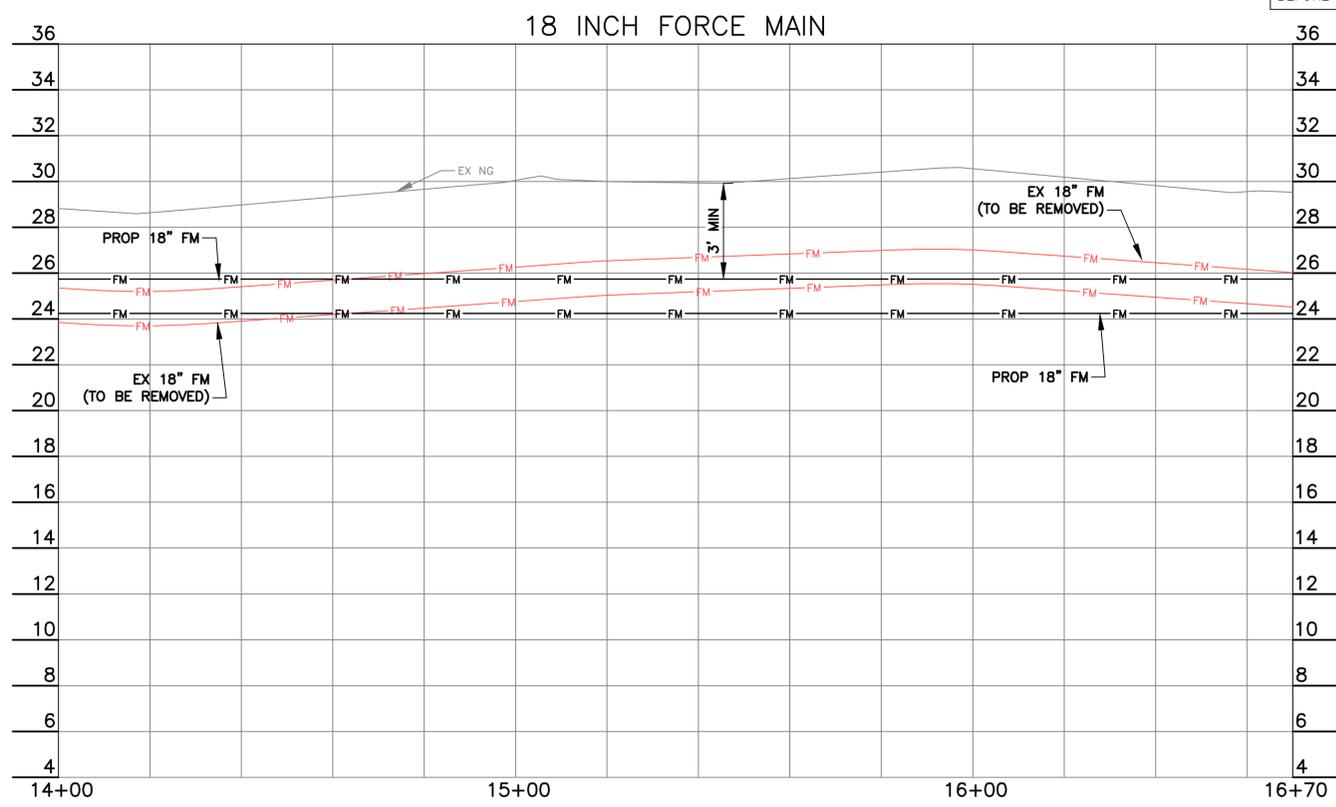


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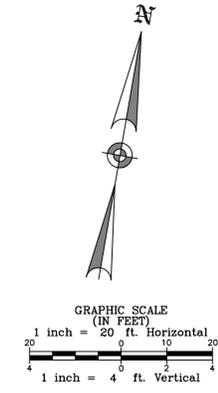
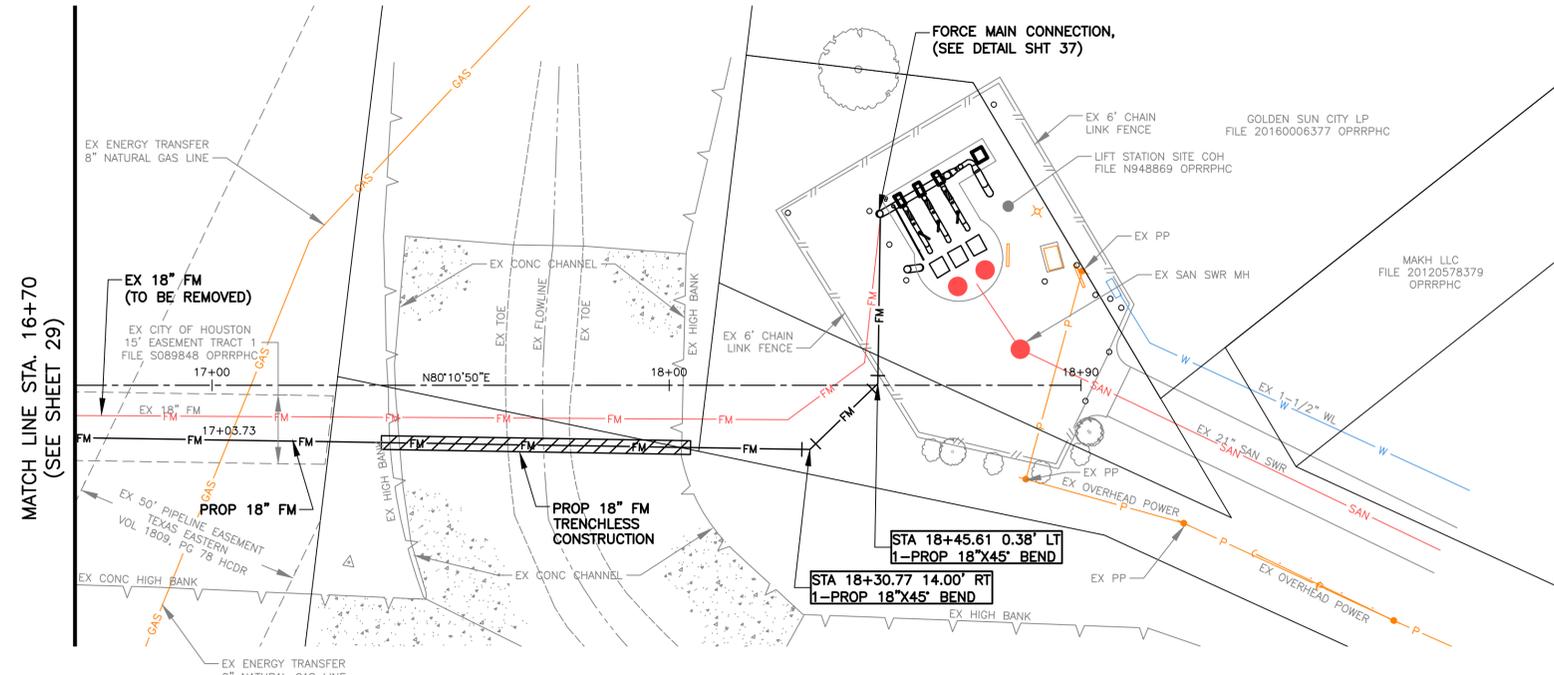
SURVEYED BY: LANDTECH  
FB NO. XXXX

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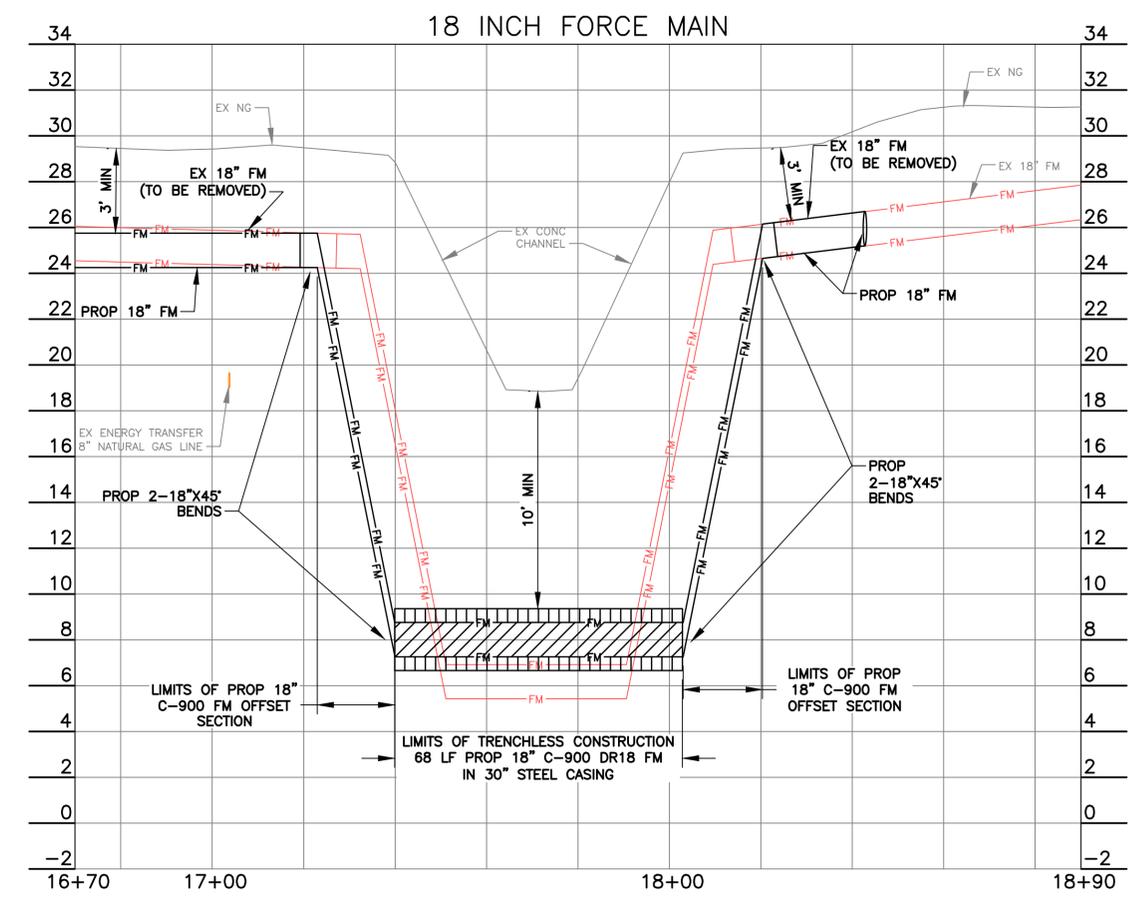
- NOTES:**
- CONTRACTOR SHALL VERIFY LOCATION AND DEPTH OF ALL PUBLIC AND PRIVATE UTILITIES INCLUDING BUT NOT LIMITED TO EXISTING STORM SEWER LINES, GAS LINES, AND AT&T/SWBT BEFORE STARTING CONSTRUCTION.
  - CONTRACTOR TO REGRADE AND HYDROMULCH ALL DISTURBED AREAS UPON PROJECT COMPLETION. CONTRACTOR TO ESTABLISH POSITIVE DRAINAGE TOWARDS ROAD.
  - CONTRACTOR TO PROTECT ALL EXISTING UTILITY LINES. ANY DAMAGE TO LINES PRIOR TO CONSTRUCTION COMPLETION SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.
- GOODYEAR BENCHMARK:  
CITY OF HOUSTON SITE CONTROL MONUMENT 5655-8311, LOCATED BY NORTH CURB OF LAWNDALE AVENUE, APPROXIMATE 260 FEET EAST GOODYEAR STREET.  
ELEV.= 12.02' (NAVD88, GEOD 18)
- SCARSDALE BENCHMARK:  
CITY OF HOUSTON SITE CONTROL MONUMENT 5750-8615 (HARRIS COUNTY FLOODPLAIN RM NO. 010460), LOCATED ON NORTHWEST CORNER OF BRIDGE SIDEWALK ON SAGEGLEN DRIVE OVER TURKEY CREEK.  
ELEV.= 31.93' (NAVD88, GEOD 18)

**CAUTION!!!  
OVERHEAD POWER  
AND GAS LINES  
IN AREA**

**CAUTION!!!  
OVERHEAD POWER  
AND GAS LINES  
IN AREA**

A 48 HOUR NOTICE TO HARRIS COUNTY FLOOD CONTROL DISTRICT DEVELOPMENT COORDINATION AND INSPECTION DEPARTMENT IS REQUIRED BEFORE BEGINNING CONSTRUCTION. THE CONTRACTOR IS REQUIRED TO OBTAIN ALL NECESSARY PERMITS BEFORE BEGINNING CONSTRUCTION.

- IMPORTANT PIPELINE NOTES:**
- CONTRACTOR SHALL CALL 811 BEFORE COMMENCING ANY EXCAVATION.
  - CONTRACTOR SHALL CONTACT ENERGY TRANSFER AT LEAST 48 HOURS PRIOR TO THE COMMENCEMENT OF WORK.
  - AN ENERGY TRANSFER REPRESENTATIVE MUST BE PRESENT ONSITE DURING CONSTRUCTION NEAR THE PIPELINE.



**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 TO 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.

AT&T TEXAS/SWBT UTILITY LINES SHOWN  
Date: \_\_\_\_\_  
Approved for AT&T Texas/SWBT underground conduit facilities only.  
Signature valid for one year.

**BAXTER & WOODMAN**  
Consulting Engineers

11450 COMPAQ CENTER WEST DRIVE, SUITE 660  
HOUSTON, TEXAS 77070 • (281)350-7027  
www.baxterwoodman.com • TBPELS FIRM No. F-21783

BAXTER & WOODMAN  
11450 COMPAQ CENTER  
WEST DR. SUITE 660  
HOUSTON, TEXAS 77070  
(281)350-7027  
TBPELS FIRM No. F-21783

ISSUED FOR INTERIM REVIEW ONLY

THIS PLAN IS NOT COMPLETE AND IS NOT INTENDED FOR BIDDING, CONSTRUCTION, OR PERMIT PURPOSES.

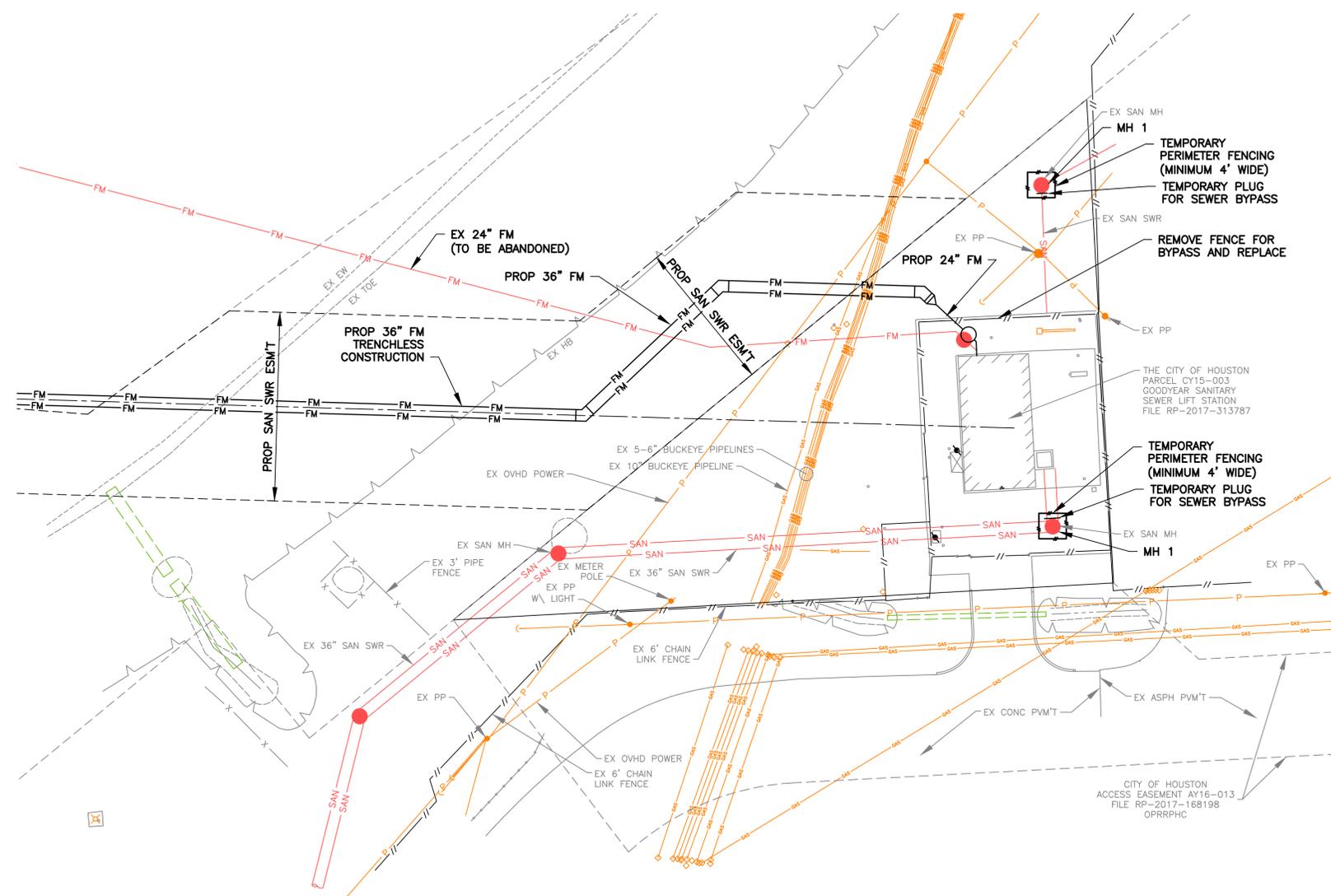
ENGINEER: JANICE C. NOELDNER  
TX. LICENSE No. 131967  
ISSUED: February 2026

<b>CITY OF HOUSTON</b> HOUSTON PUBLIC WORKS	
CITY OF HOUSTON FORCE MAIN REHABILITATION AND RECONSTRUCTION - GOODYEAR AND SCARSDALE LIFT STATIONS	
<b>18 INCH FORCE MAIN</b> (STA 16+70 TO END)	
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
S-000100-0019	
DRAWING SCALE	
1"=20' H 1"=4' V	
CITY OF HOUSTON PM	
MARIA GEORGE, P.E.	
SHEET NO. 30 OF 40	

P:\HOUS\2326078-Force Main Rehab and\CAD\01\_Civil\_3D\01\_Shis-Plans-18 Inch Force Main STA 0+50.00 TO 18+90.06.dwg, 2/9/2026 11:05:28 AM, Bob Juliano



GRAPHIC SCALE  
(IN FEET)  
1 inch = 20 ft. Horizontal  
0 10 20



GOODYEAR BENCHMARK:  
CITY OF HOUSTON SITE CONTROL MONUMENT 5655-8311, LOCATED BY NORTH CURB OF LAWNDALE AVENUE, APPROXIMATE 260 FEET EAST GOODYEAR STREET.  
ELEV.= 12.02' (NAVD88, GEOID 18)

SCARSDALE BENCHMARK:  
CITY OF HOUSTON SITE CONTROL MONUMENT 5750-8615 (HARRIS COUNTY FLOODPLAIN RM NO. 010460), LOCATED ON NORTHWEST CORNER OF BRIDGE SIDEWALK ON SAGEGLEN DRIVE OVER TURKEY CREEK.  
ELEV.= 31.93' (NAVD88, GEOID 18)

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AT&T TEXAS/SWBT UTILITY LINES SHOWN  
Date: \_\_\_\_\_

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

**BAXTER & WOODMAN**  
Consulting Engineers

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TBPELS FIRM No. F-21783

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ENGINEER: JANICE C. NOELDNER  
TX. LICENSE No. 131967  
ISSUED: February 2026

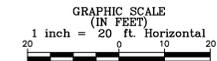
**CITY OF HOUSTON**  
HOUSTON PUBLIC WORKS

CITY OF HOUSTON  
FORCE MAIN REHABILITATION AND RECONSTRUCTION -  
GOODYEAR AND SCARSDALE LIFT STATIONS

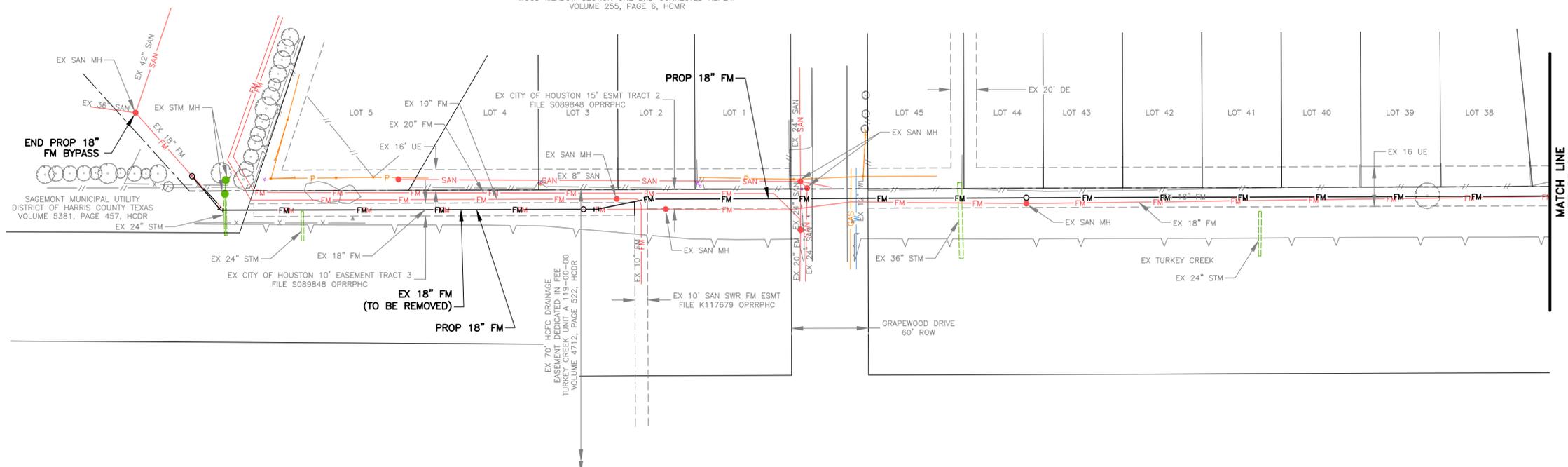
**GOODYEAR BYPASS  
PUMPING PLAN**

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
S-000100-0019	
DRAWING SCALE	
1"=20' H	
CITY OF HOUSTON PM	
MARIA GEORGE, P.E.	
SHEET NO. 31 OF 40	

P:\HOUS\CA\2326078-Force Main Rehab and\CAD\01\_Civil\_3D\01\_Shts-Plans-Plans\09\_GOODYEAR OVERALL.dwg, 2/9/2026, 11:05:44 AM, Bob Juliano



A REPLAT OF WOOD MEADOW SECTION ONE  
VOLUME 220, PAGE 124, HCMR  
CORRECTED PLAT OF WOOD MEADOW SECTION ONE  
VOLUME 224, PAGE 36, HCMR  
WOOD MEADOW SECTION ONE 2ND CORRECTED REPLAT  
VOLUME 255, PAGE 6, HCMR



MATCH LINE  
SEE BELOW

GOODYEAR BENCHMARK:  
CITY OF HOUSTON SITE CONTROL MONUMENT 5655-8311, LOCATED BY NORTH CURB OF LAWNDALE AVENUE, APPROXIMATE 260 FEET EAST GOODYEAR STREET.  
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VERIFICATION OF PRIVATE UTILITY LINES

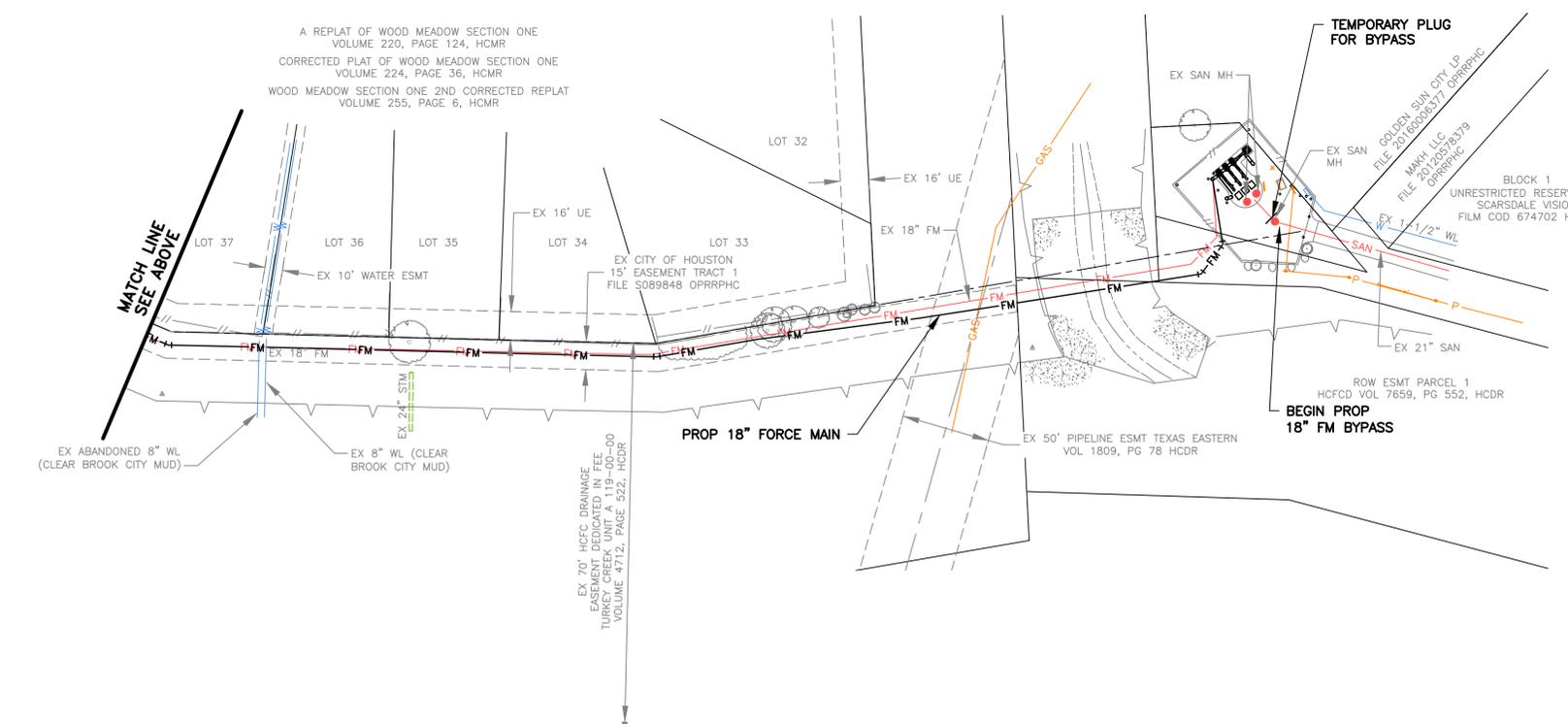
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AT&T TEXAS/SWBT UTILITY LINES SHOWN

Date: \_\_\_\_\_  
Approved for AT&T Texas/SWBT underground conduit facilities only.  
Signature valid for one year.

A REPLAT OF WOOD MEADOW SECTION ONE  
VOLUME 220, PAGE 124, HCMR  
CORRECTED PLAT OF WOOD MEADOW SECTION ONE  
VOLUME 224, PAGE 36, HCMR  
WOOD MEADOW SECTION ONE 2ND CORRECTED REPLAT  
VOLUME 255, PAGE 6, HCMR



MATCH LINE  
SEE ABOVE

**BAXTER & WOODMAN**  
Consulting Engineers

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ENGINEER: JANICE C. NOELDNER  
TX LICENSE No. 131967  
ISSUED: February 2026

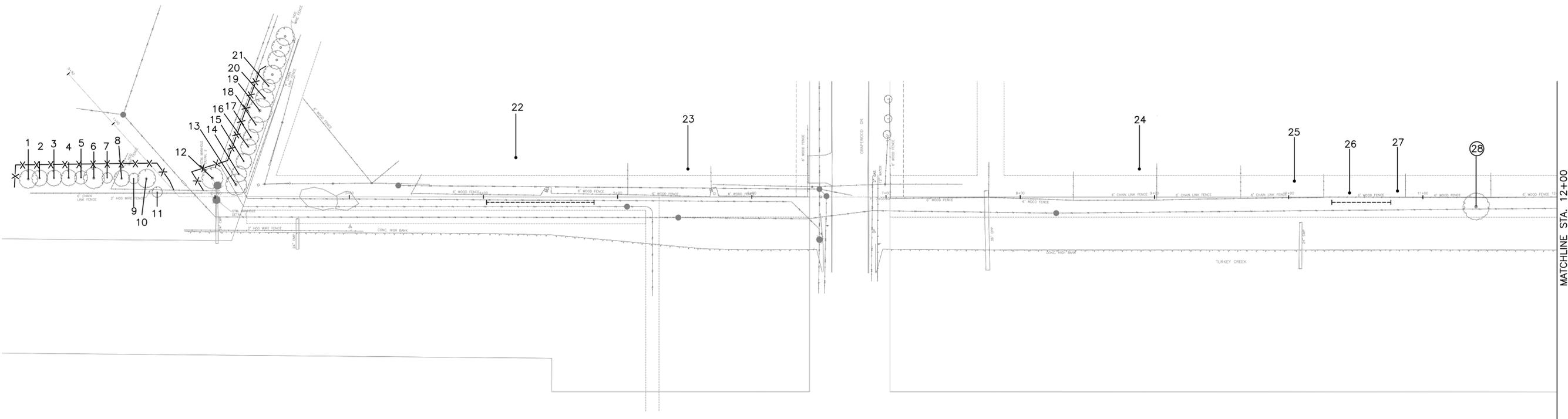
**CITY OF HOUSTON**  
HOUSTON PUBLIC WORKS

CITY OF HOUSTON  
FORCE MAIN REHABILITATION AND RECONSTRUCTION -  
GOODYEAR AND SCARSDALE LIFT STATIONS

**SCARSDALE BYPASS  
PUMPING PLAN**

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
S-000100-0019	
DRAWING SCALE	
1"=50' H	
CITY OF HOUSTON PM	
MARIA GEORGE, P.E.	
SHEET NO. 32 OF 40	

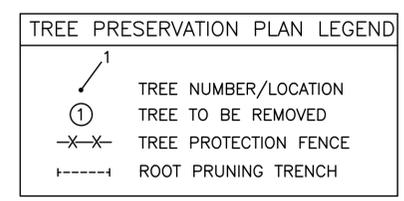
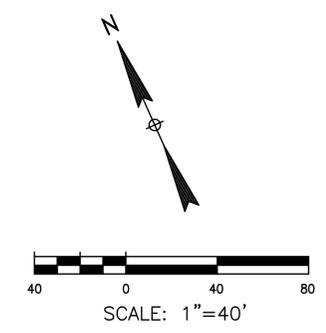
P:\HOUS\2326078-Force Main Rehab and\CAD\01\_Civil\_3D\01\_Shis-Plans\10\_SCARSDALE OVERALL.dwg, 2/9/2026 11:05:58 AM, Bob Juliano



Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
<b>Tree along Scarsdale Force Main</b>					
1	11700 Sagearbor	15" Baldcypress	Protected	Sagemont WWTP	Fence
2	11700 Sagearbor	13" Baldcypress	Protected	Sagemont WWTP	Fence
3	11700 Sagearbor	13" Baldcypress	Protected	Sagemont WWTP	Fence
4	11700 Sagearbor	13" Baldcypress	Protected	Sagemont WWTP	Fence
5	11700 Sagearbor	12" Baldcypress	Protected	Sagemont WWTP	Fence
6	11700 Sagearbor	17" Baldcypress	Protected	Sagemont WWTP	Fence
7	11700 Sagearbor	10" Baldcypress	Protected	Sagemont WWTP	Fence
8	11700 Sagearbor	14" Baldcypress	Protected	Sagemont WWTP	Fence
9	11700 Sagearbor	11" Baldcypress	Protected	Sagemont WWTP	Fence
10	11700 Sagearbor	15" Baldcypress	Protected	Sagemont WWTP	Fence
11	11700 Sagearbor	8" Sugarberry	Not protected	Sagemont WWTP	
12	11700 Sagearbor	17" Baldcypress	Protected	Sagemont WWTP	Fence
13	11700 Sagearbor	18" Baldcypress	Protected	Sagemont WWTP	Fence
14	11700 Sagearbor	13" Baldcypress	Protected	Sagemont WWTP	Fence
15	11700 Sagearbor	15" Baldcypress	Protected	Sagemont WWTP	Fence
16	11700 Sagearbor	13" Baldcypress	Protected	Sagemont WWTP	Fence
17	11700 Sagearbor	12" Baldcypress	Protected	Sagemont WWTP	Fence
18	11700 Sagearbor	14" Baldcypress	Protected	Sagemont WWTP	Fence
19	11700 Sagearbor	18" Baldcypress	Protected	Sagemont WWTP	Fence
20	11700 Sagearbor	15" Baldcypress	Protected	Sagemont WWTP	Fence
21	11700 Sagearbor	12" Baldcypress	Protected	Sagemont WWTP	Fence
22	11514 Corkwood	43" Arizona Ash	Not protected	Private tree	Root prune for sanitary, Clearance prune
23	11518 Corkwood	22" Chinaberry	Not protected	Topped, Private, Not impacted	
24	11610 Corkwood	20" Baldcypress	Not protected	Private tree, not impacted	
25	11618 Corkwood	25" Tallow	Not protected	Private tree, not impacted	
26	11622 Corkwood	27" Live Oak	Not protected	Private tree	Root prune for sanitary, Clearance prune
27	11622 Corkwood	18" Tallow	Not protected	Private tree	Clearance prune
28	COH Easement	21" Tallow	Not protected	Remove for open cut	Remove tree, No replacement/mitigation required

**NOTE:**

- THIS TREE PROTECTION PLAN WAS DEVELOPED WITH INFORMATION PROVIDED BY DESIGN ENGINEER IN DRAWINGS DATED JANUARY 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.
- 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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**C.N. Koehl**  
 Urban Forestry, Inc.  
 210 Stone Bush Ct. • Katy, Texas 77493  
 281-391-0022 ckoehl@koehlorbanforestry.com

APPROVED:  
  
 11450 COMPAQ CENTER WEST DRIVE, SUITE 660  
 HOUSTON, TEXAS 77070 (281)350-7027  
 www.baxterwoodman.com TBPELS FIRM No. F-21783

BAXTER & WOODMAN  
 11450 COMPAQ CENTER  
 WEST DR. SUITE 660  
 HOUSTON, TEXAS 77070  
 (281)350-7027  
 TBPELS FIRM No. F-21783

SURVEYED BY: XXXXXXXXXXXX  
 FB NO. XXXX

**CITY OF HOUSTON**  
 HOUSTON PUBLIC WORKS  
 CITY OF HOUSTON  
 FORCE MAIN REHABILITATION AND RECONSTRUCTION –  
 GOODYEAR LIFT STATION AND SCARSDALE LIFT STATION

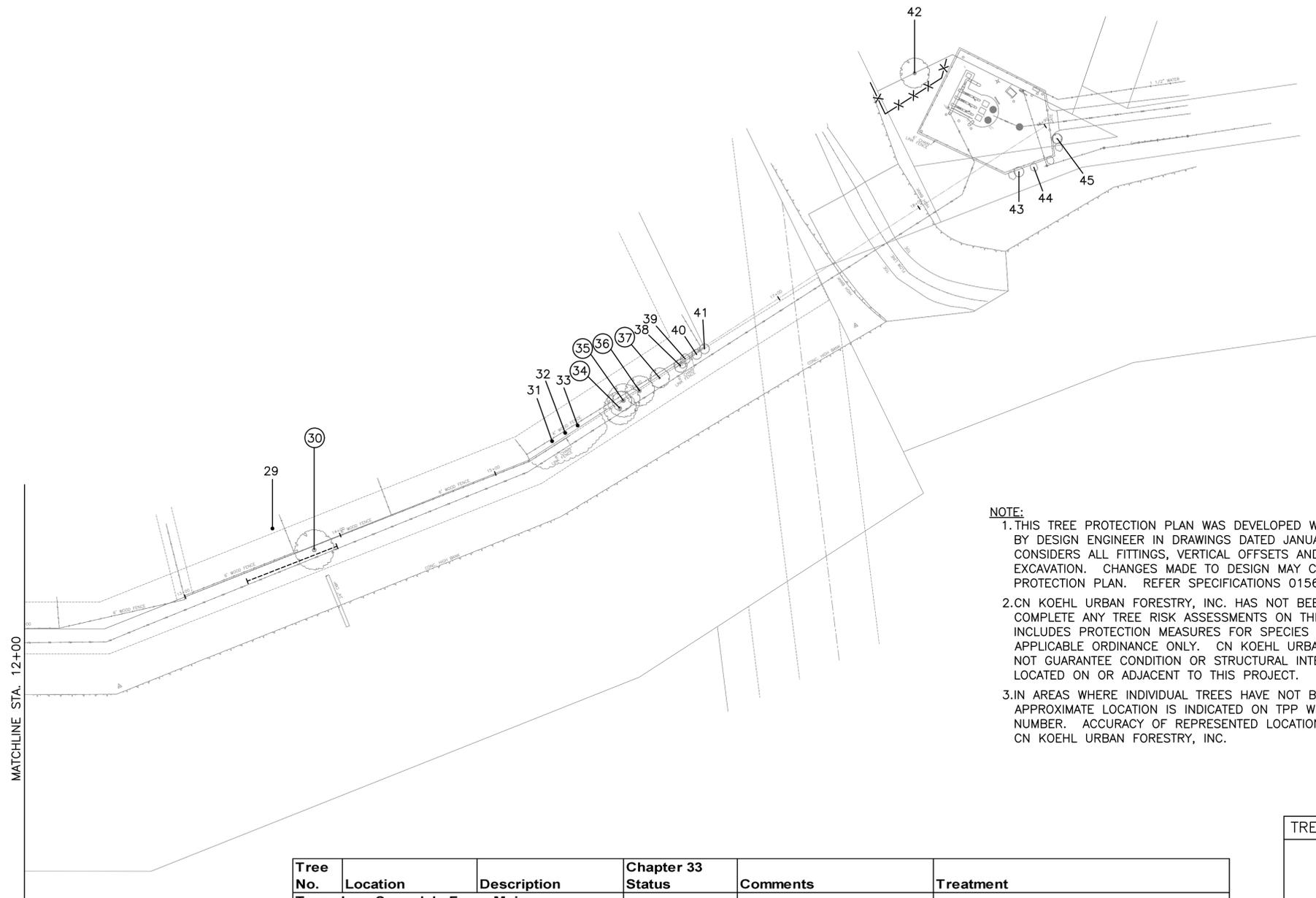
**TREE PROTECTION PLAN**

SHEET 1 OF 4

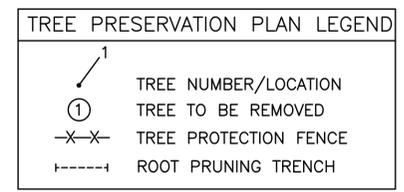
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
S-000100-0019	
DRAWING SCALE	
CITY OF HOUSTON PM	
MARIA GEORGE, P.E.	
SHEET NO.	OF XX

C:\Users\Ned\Desktop\BAXTER WOODMAN GOODYEAR TP-1.dwg, 2/6/2026 4:15:56 PM, Ned

C:\Users\Ned\Desktop\BAXTER\_WOODMAN\_GOODYEAR\_TP-2.dwg, 2/6/2026 4:16:00 PM, Ned



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Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
<b>Tree along Scarsdale Force Main</b>					
29	11638 Corkwood	29" Live Oak	Not protected	Private tree	Root prune for sanitary, Clearance prune
30	COH Easement	21" Arizona Ash	Not protected	Trunk decay, Split trunk, Remove for open cut	Remove tree, No replacement/mitigation required
31	11650 Corkwood	7" Sugarberry	Not protected	Private tree	Clearance prune
32	11650 Corkwood	6" Sugarberry	Not protected	Private tree	Clearance prune
33	11650 Corkwood	9" Sugarberry	Not protected	Private tree	Clearance prune
34	COH Easement	22" Sugarberry	Not protected	Remove for open cut	Remove tree, No replacement/mitigation required
35	COH Easement	18" Sugarberry	Not protected	Remove for open cut	Remove tree, No replacement/mitigation required
36	COH Easement	16" Sugarberry	Not protected	Remove for open cut	Remove tree, No replacement/mitigation required
37	COH Easement	10" Sugarberry	Not protected	Remove for open cut	Remove tree, No replacement/mitigation required
38	11650 Corkwood	13" Sugarberry	Not protected	Dead stump, not protected	
39	11650 Corkwood	7" Sugarberry	Not protected	Private tree	Clearance prune
40	11650 Corkwood	6" Sugarberry	Not protected	Private tree	Clearance prune
41	11650 Corkwood	5" Sugarberry	Not protected	Private tree	Clearance prune
42	12501 Scarsdale	19" Live Oak	Protected	COH LS, Co-dominant leaders	Fence
43	12501 Scarsdale	7" Tallow	Not protected	COH Lift station	
44	12501 Scarsdale	8" Tallow	Not protected	COH Lift station	
45	12501 Scarsdale	10" Tallow	Not protected	COH Lift station	

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 FB NO. XXXX

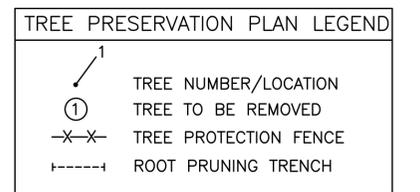
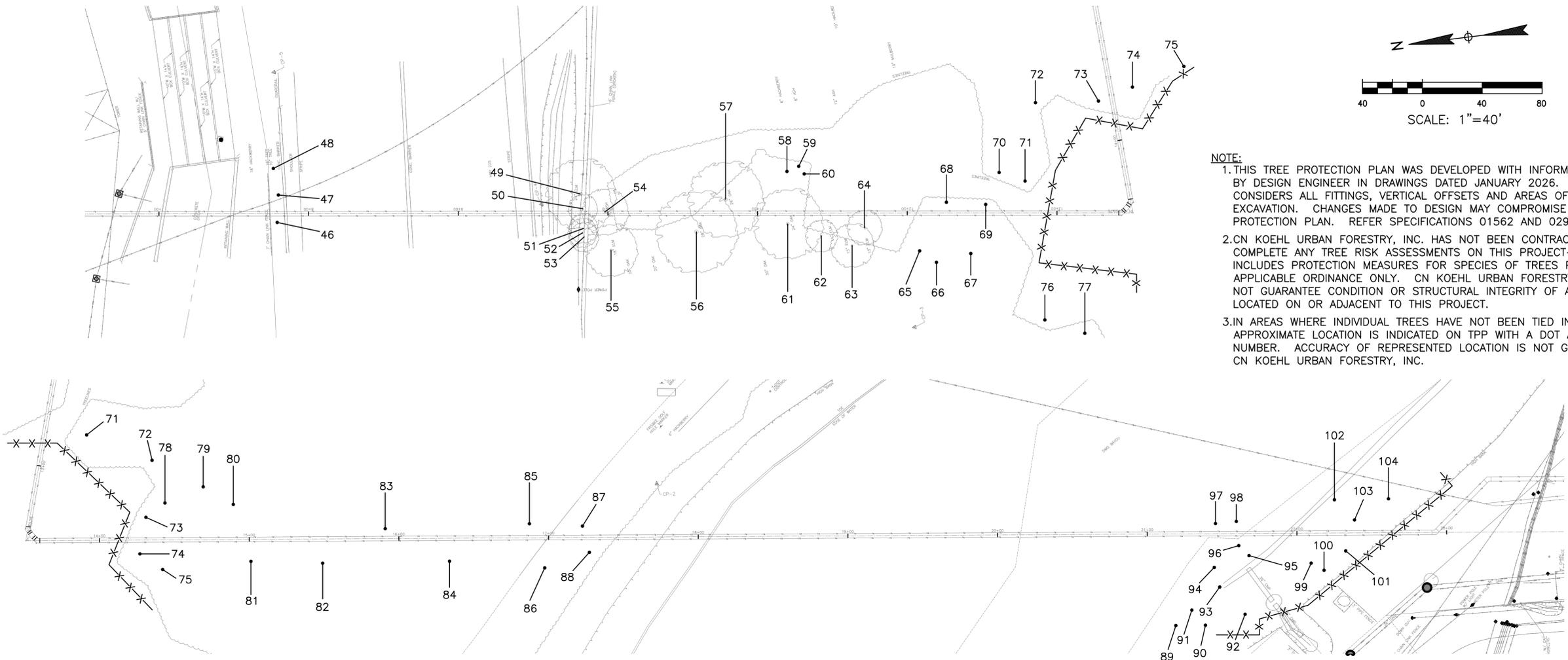
**CITY OF HOUSTON**  
 HOUSTON PUBLIC WORKS  
 CITY OF HOUSTON  
 FORCE MAIN REHABILITATION AND RECONSTRUCTION -  
 GOODYEAR LIFT STATION AND SCARSDALE LIFT STATION

TREE PROTECTION PLAN

SHEET 2 OF 4

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
S-000100-0019	
DRAWING SCALE	
CITY OF HOUSTON PM	
MARIA GEORGE, P.E.	
SHEET NO.	OF XX

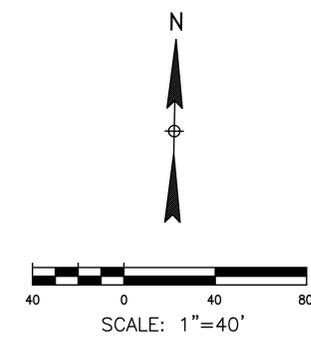
C:\Users\Ned\Desktop\BAXTER WOODMAN GOODYEAR SCARSDALE.BW GOODYEAR TP-3.dwg, 2/5/2026 4:16:05 PM, Ned



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Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
<b>Tree along Goodyear Lift Station Force Main</b>					
46	TXDOT ROW	15" Sugarberry	Not protected	Growing in fence	Trenchless construction area, Not impacted
47	TXDOT ROW	13" Arizona Ash	Not protected	Growing in fence	Trenchless construction area, Not impacted
48	TXDOT ROW	11" Arizona Ash	Not protected	Growing in fence	Trenchless construction area, Not impacted
49	TXDOT ROW	22" American Elm	Not protected	Topped by CPE	Trenchless construction area, Not impacted
50	TXDOT ROW	11" Sugarberry	Not protected	Topped by CPE	Trenchless construction area, Not impacted
51	TXDOT ROW	10" Sugarberry	Not protected	Topped by CPE	Trenchless construction area, Not impacted
52	TXDOT ROW	11" Sugarberry	Not protected	Topped by CPE	Trenchless construction area, Not impacted
53	TXDOT ROW	11" Sugarberry	Not protected	Topped by CPE	Trenchless construction area, Not impacted
54	Charles H. Milby Park	17" Green Ash	Protected	Pruned by CPE	Trenchless construction area, Not impacted
55	Charles H. Milby Park	17" Cedar Elm	Protected		Trenchless construction area, Not impacted
56	Charles H. Milby Park	26" Post Oak	Protected		Trenchless construction area, Not impacted
57	Charles H. Milby Park	28" Post Oak	Protected		Trenchless construction area, Not impacted
58	Charles H. Milby Park	12" Cedar Elm	Protected		Trenchless construction area, Not impacted
59	Charles H. Milby Park	14" Cedar Elm	Protected		Trenchless construction area, Not impacted
60	Charles H. Milby Park	10" Cedar Elm	Protected		Trenchless construction area, Not impacted
61	Charles H. Milby Park	21" Post Oak	Protected		Trenchless construction area, Not impacted
62	Charles H. Milby Park	10" Cedar Elm	Protected		Trenchless construction area, Not impacted
63	Charles H. Milby Park	14" Cedar Elm	Protected		Trenchless construction area, Not impacted
64	Charles H. Milby Park	15" Cedar Elm	Protected		Trenchless construction area, Not impacted
65	Charles H. Milby Park	13" Cedar Elm	Protected		Trenchless construction area, Not impacted
66	Charles H. Milby Park	9" Cedar Elm	Protected		Trenchless construction area, Not impacted
67	Charles H. Milby Park	28" Post Oak	Protected		Trenchless construction area, Not impacted
68	Charles H. Milby Park	15" Cedar Elm	Protected		Trenchless construction area, Not impacted
69	Charles H. Milby Park	16" Post Oak	Protected	Leaning	Trenchless construction area, Not impacted
70	Charles H. Milby Park	17" Cedar Elm	Protected		Trenchless construction area, Not impacted
71	Charles H. Milby Park	16" Cedar Elm	Protected		Fence for shaft location, Trenchless beyond shaft
72	Charles H. Milby Park	17" Cedar Elm	Protected		Fence for shaft location, Trenchless beyond shaft

Tree No.	Location	Description	Chapter 33 Status	Comments	Treatment
<b>Tree along Goodyear Lift Station Force Main</b>					
73	Charles H. Milby Park	15" Cedar Elm	Protected		Fence for shaft location, Trenchless beyond shaft
74	Charles H. Milby Park	17" Cedar Elm	Protected		Fence for shaft location, Trenchless beyond shaft
75	Charles H. Milby Park	21" Sugarberry	Protected		Fence for shaft location, Trenchless beyond shaft
76	Charles H. Milby Park	12" Cedar Elm	Protected		Fence for shaft location, Trenchless beyond shaft
77	Charles H. Milby Park	14" Cedar Elm	Protected		Fence for shaft location, Trenchless beyond shaft
78	Charles H. Milby Park	18" Sugarberry	Not protected		Trenchless construction area, Not impacted
79	Charles H. Milby Park	19" Sugarberry	Not protected		Trenchless construction area, Not impacted
80	Charles H. Milby Park	13" Sugarberry	Not protected		Trenchless construction area, Not impacted
81	Charles H. Milby Park	21" American Elm	Protected		Trenchless construction area, Not impacted
82	Charles H. Milby Park	16" Ligustrum	Not protected		Trenchless construction area, Not impacted
83	Charles H. Milby Park	12" Sugarberry	Not protected		Trenchless construction area, Not impacted
84	Charles H. Milby Park	22" American Elm	Protected		Trenchless construction area, Not impacted
85	Charles H. Milby Park	16" Sugarberry	Not protected		Trenchless construction area, Not impacted
86	Charles H. Milby Park	10" Arizona Ash	Not protected		Trenchless construction area, Not impacted
87	Charles H. Milby Park	15" Sugarberry	Not protected		Trenchless construction area, Not impacted
88	Charles H. Milby Park	13" Sugarberry	Not protected		Trenchless construction area, Not impacted
89	8600 Park Place Blvd	19" American Elm	Not protected	impacted	
90	8600 Park Place Blvd	17" Sugarberry	Not protected	impacted	
91	8600 Park Place Blvd	12" Sugarberry	Not protected	impacted	
92	8600 Park Place Blvd	17" Sugarberry	Not protected	Private tree	Fence for shaft location, Trenchless beyond shaft
93	8600 Park Place Blvd	16" Sugarberry	Not protected	Private tree	Fence for shaft location, Trenchless beyond shaft
94	8600 Park Place Blvd	13" Arizona Ash	Not protected	impacted	
95	8600 Park Place Blvd	13" Sugarberry	Not protected	Private tree	Fence for shaft location, Trenchless beyond shaft
96	8600 Park Place Blvd	4" Cedar Elm	Not protected	impacted	
97	8600 Park Place Blvd	13" Arizona Ash	Not protected	impacted	
98	8600 Park Place Blvd	10" Arizona Ash	Not protected	impacted	
99	8600 Park Place Blvd	14" Sugarberry	Not protected	Private tree	Fence for shaft location, Trenchless beyond shaft
100	8600 Park Place Blvd	10" American Elm	Not protected	Private tree	Fence for shaft location, Trenchless beyond shaft
101	8600 Park Place Blvd	10" Sugarberry	Not protected	Private tree	Fence for shaft location, Trenchless beyond shaft
102	8600 Park Place Blvd	15" Sugarberry	Not protected	Private tree	Fence for shaft location, Trenchless beyond shaft
103	8600 Park Place Blvd	9" Sugarberry	Not protected	Private tree	Fence for shaft location, Trenchless beyond shaft
104	8600 Park Place Blvd	22" Sugarberry	Not protected	Private tree	Fence for shaft location, Trenchless beyond shaft



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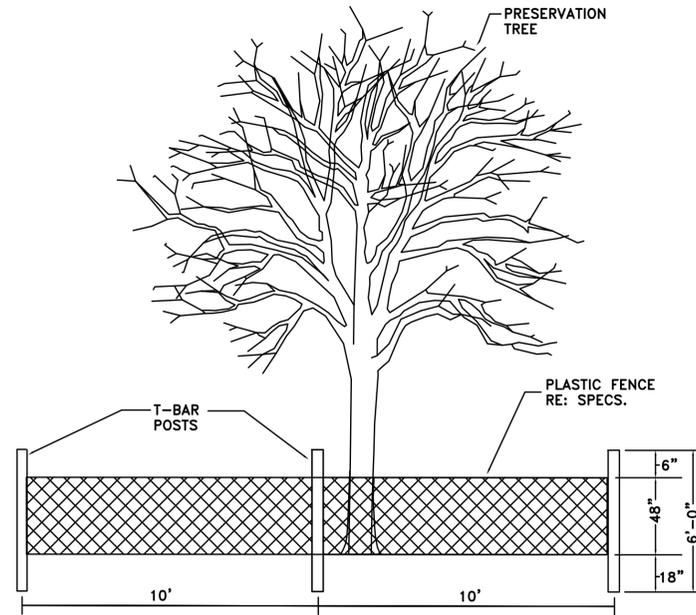
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**CITY OF HOUSTON**  
 HOUSTON PUBLIC WORKS  
 CITY OF HOUSTON  
 FORCE MAIN REHABILITATION AND RECONSTRUCTION -  
 GOODYEAR LIFT STATION AND SCARSDALE LIFT STATION

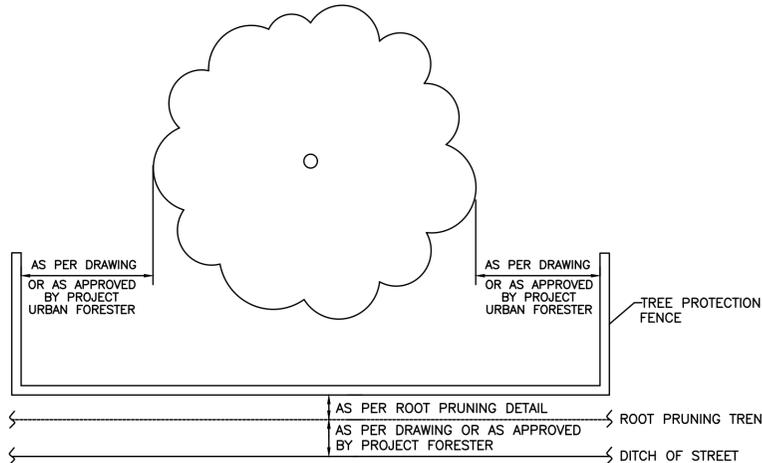
**TREE PROTECTION PLAN**

SHEET 3 OF 4

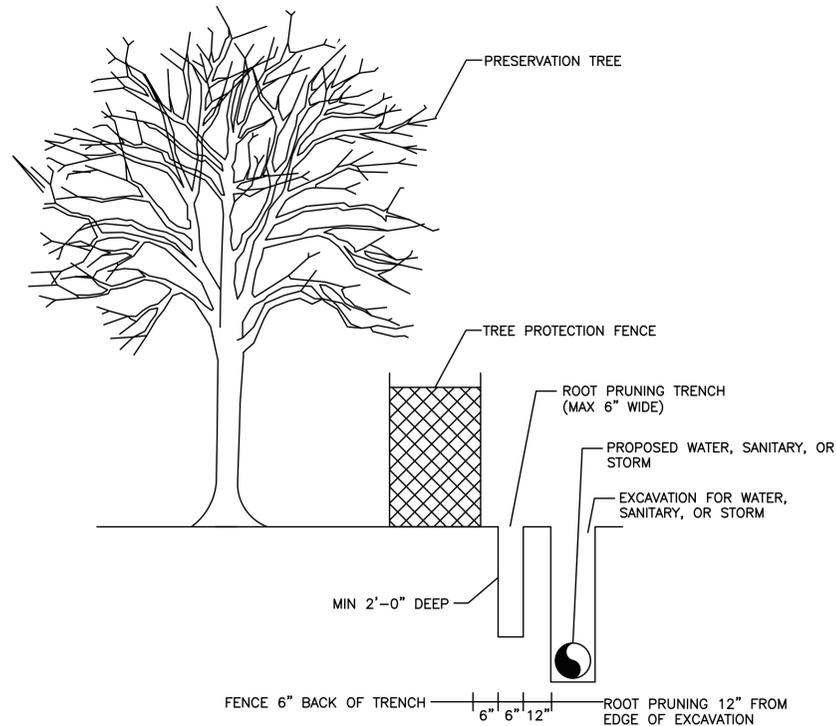
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**TREE PROTECTION FENCING DETAIL A**  
NOT TO SCALE



**TREE PROTECTION FENCING DETAIL B**  
NOT TO SCALE



**ROOT PRUNE FOR WATER, SANITARY, OR STORM LINE**  
NOT TO SCALE

Arboriculturally Significant Tree List		
Tree No.	Location	Description
56	Charles H. Milby Park	26" Post Oak
57	Charles H. Milby Park	28" Post Oak
67	Charles H. Milby Park	28" Post Oak

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 Removal List				
Tree No.	Location	Description	Replacement requirement	
28	COH Easement	21" Tallow	0	
30	COH Easement	21" Arizona Ash	0	
34	COH Easement	22" Sugarberry	0	
35	COH Easement	18" Sugarberry	0	
36	COH Easement	16" Sugarberry	0	
37	COH Easement	10" Sugarberry	0	
<b>TOTAL REPLACEMENT INCHES REQUIRED</b>			<b>0</b>	

Tree Replacement List			
Quantity	Caliper Size	Species	Container/Tree Spade size
<b>TOTAL REPLACEMENT INCHES INCLUDED IN PLAN</b>			<b>0</b>

NOTE: Tree replacement locations are not shown on plans. Contractor must coordinate with City of Houston Urban 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 total	Mitigation rate/inch	
0-5.99"		297.98	\$ -
6-11.99"		496.64	\$ -
12" +		662.19	\$ -
<b>TOTAL REQUIRED MITIGATION FEE</b>			<b>\$ -</b>

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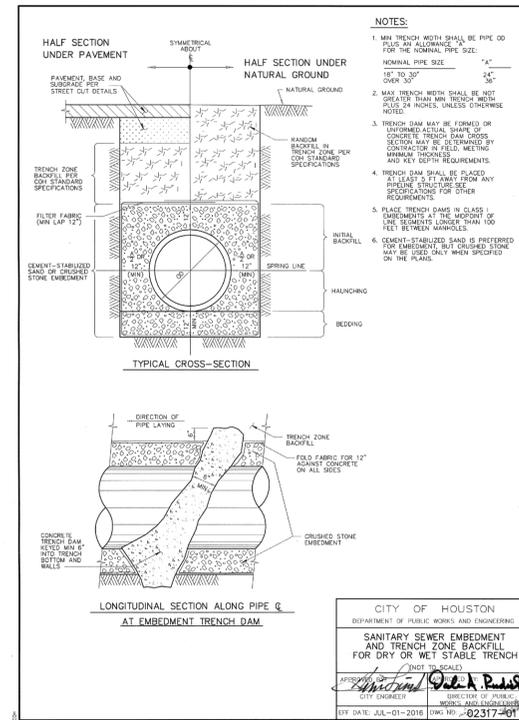
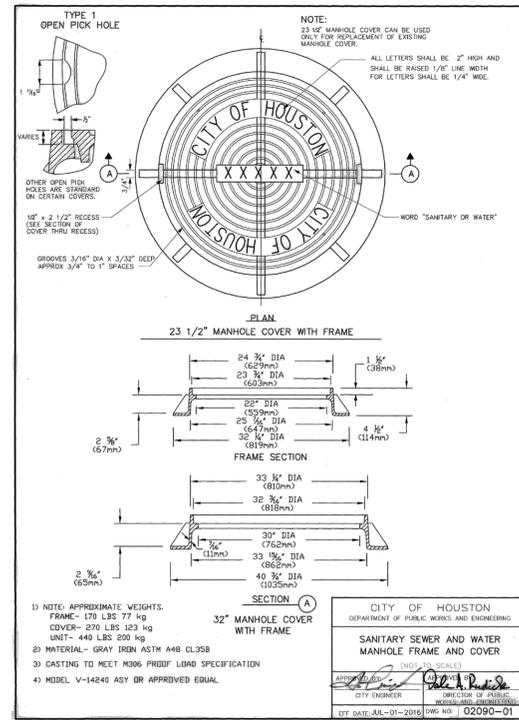
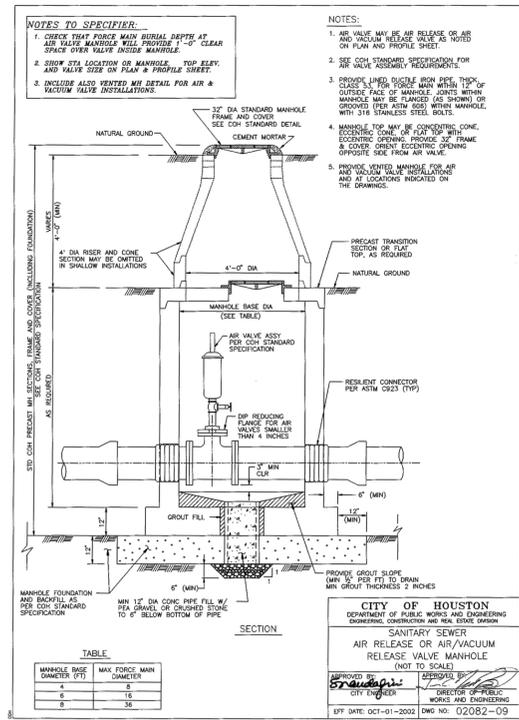
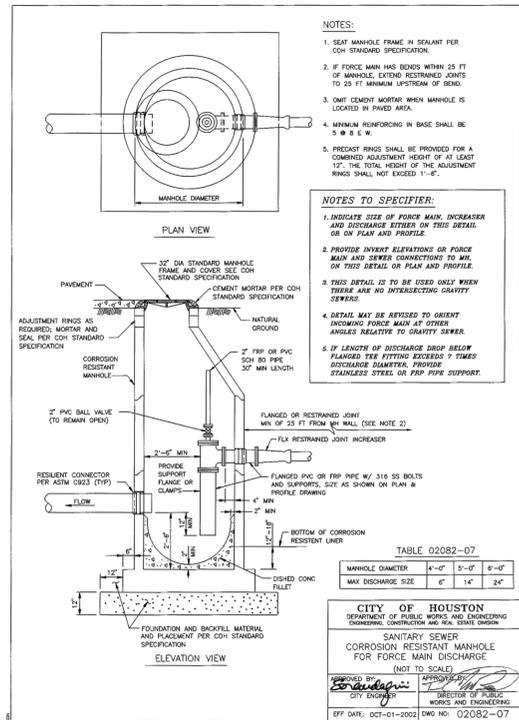
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HOUSTON PUBLIC WORKS

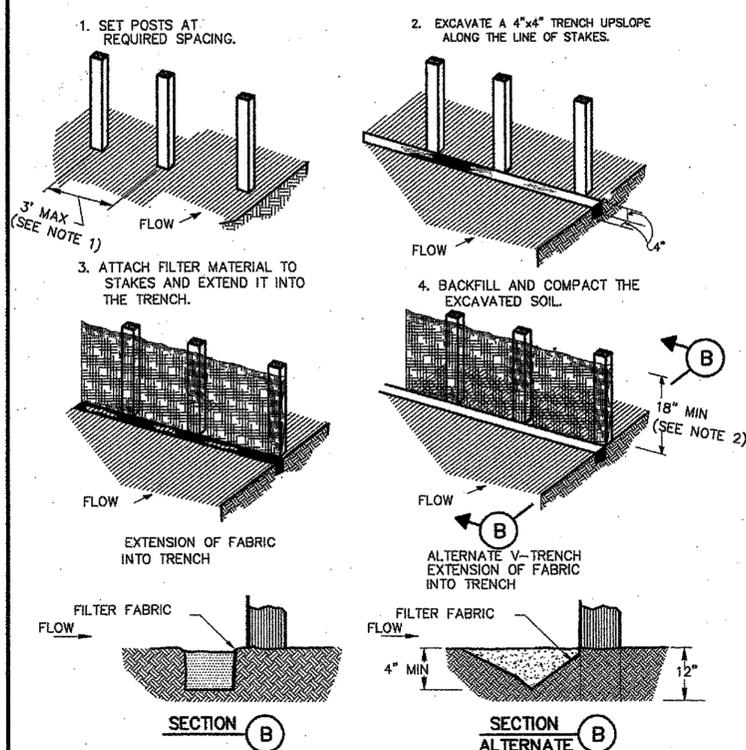
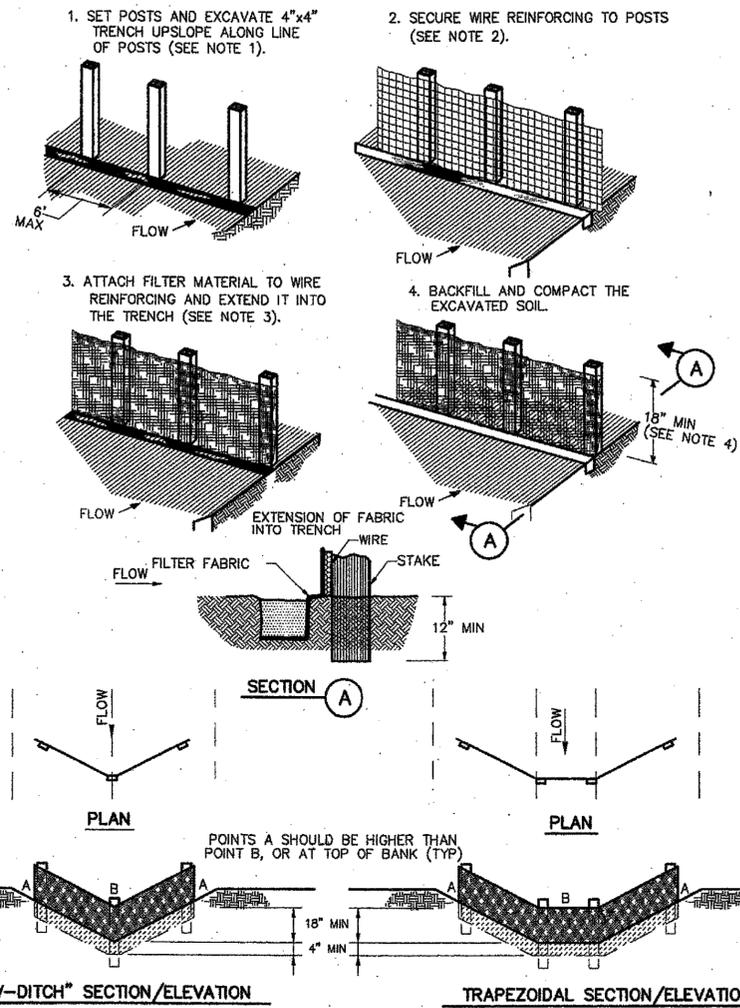
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GOODYEAR LIFT STATION AND SCARSDALE LIFT STATION

**TREE PROTECTION PLAN**

SHEET 4 OF 4

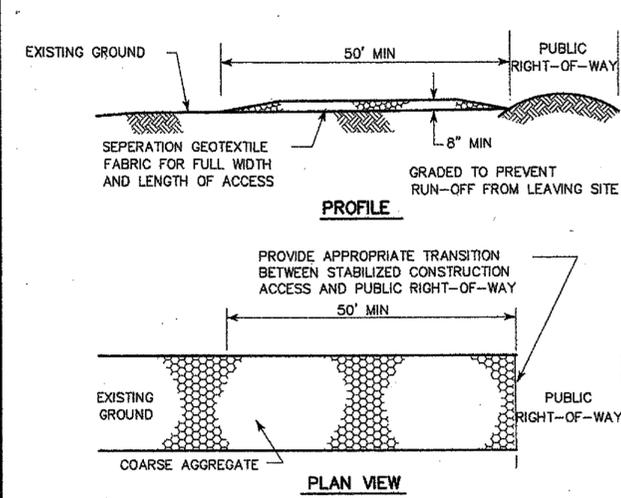
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SHEET NO.	OF XX





**CONSTRUCTION NOTES:**

- 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.
- 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.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHOULD BE OVERLAPPED 6 INCHES AT THE POSTS, AND FOLDED.
- SEE COH STANDARD SPECIFICATION FOR FILTER FABRIC BARRIER.

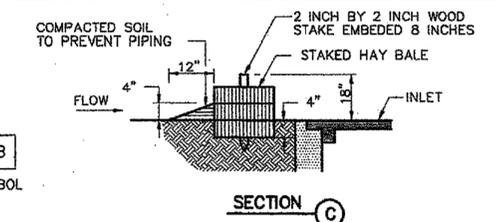
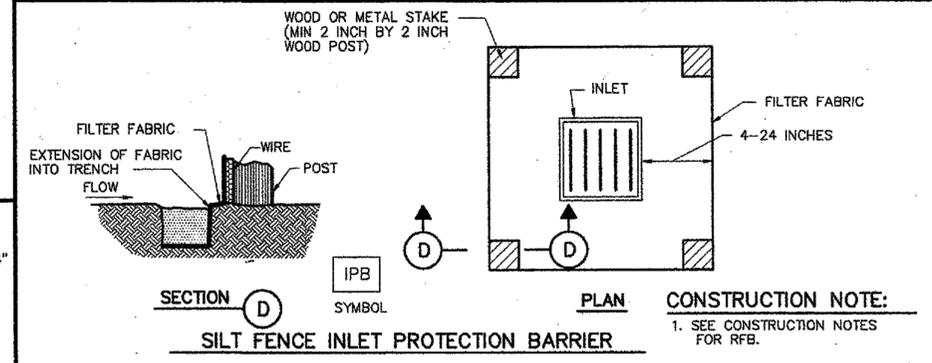


**CONSTRUCTION NOTES:**

- LENGTH SHALL BE AS SHOWN ON THE CONSTRUCTION DRAWINGS, BUT NOT LESS THAN 50 FEET.
- THICKNESS SHALL BE NOT LESS THAN 8 INCHES.
- WIDTH SHALL BE NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
- 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.
- STABILIZED AREA MAY BE WIDENED OR LENGTHENED TO ACCOMMODATE A WASHING AREA. AN OUTLET SEDIMENT TRAP MUST BE PROVIDED FOR THE WASHING AREA.
- COH STANDARD SPECIFICATION FOR STABILIZED CONSTRUCTION ACCESS.
- STABILIZED CONSTRUCTION ACCESS SHALL BE MAINTAINED FREE OF SEDIMENT FOR THE DURATION OF THE PROJECT.



**STABILIZED CONSTRUCTION ACCESS**



**CITY OF HOUSTON**  
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

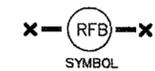
**STORM WATER POLLUTION PREVENTION PLAN DETAILS**  
(NOT TO SCALE)

APPROVED: [Signature] CITY ENGINEER  
APPROVED: [Signature] DIRECTOR OF PUBLIC WORKS AND ENGINEERING

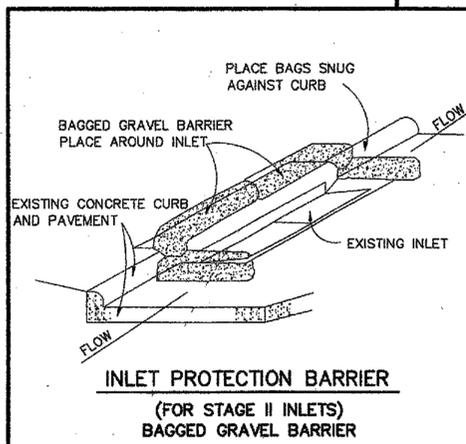
EFF DATE: JULY-01-2010 DWG NO: 01571-01

**CONSTRUCTION NOTES:**

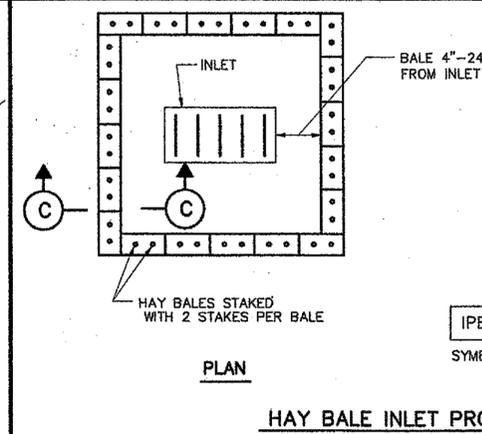
- SET 2 INCH BY 2 INCH WOODEN STAKES SPACED A MAX OF 6 FEET APART AND EMBEDDED A MIN OF 12 INCHES.
- WOVEN WIRE REINFORCING TO BE FASTENED SECURELY TO BARRIER POSTS WITH STAPLES.
- FILTER CLOTH TO BE FASTENED SECURELY TO WOVEN WIRE REINFORCING, WITH TIES SPACED EVERY 24 INCHES AT TOP AND MIDSECTION.
- MINIMUM HEIGHT OF FILTER SHOULD BE 18 INCHES AND A MAXIMUM OF 36 INCHES ABOVE NATURAL GROUND.
- WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHALL BE OVERLAPPED 6 INCHES AT THE POSTS, AND FOLDED.
- SEE COH STANDARD SPECIFICATION FOR FILTER FABRIC BARRIER.



**REINFORCED FILTER FABRIC BARRIER**



**INLET PROTECTION BARRIER (FOR STAGE II INLETS) BAGGED GRAVEL BARRIER**



**HAY BALE INLET PROTECTION BARRIER**

**BAXTER & WOODMAN**  
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ISSUED FOR INTERIM REVIEW ONLY

THIS PLAN IS NOT COMPLETE AND IS NOT INTENDED FOR BIDDING, CONSTRUCTION, OR PERMIT PURPOSES.

ENGINEER: JANICE C. NOELDNER  
TX LICENSE No. 131967  
ISSUED: February 2026

**CITY OF HOUSTON**  
HOUSTON PUBLIC WORKS  
CITY OF HOUSTON  
FORCE MAIN REHABILITATION AND RECONSTRUCTION -  
GOODYEAR AND SCARSDALE LIFT STATIONS

**STORM WATER POLLUTION PREVENTION PLAN DETAILS**

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SHEET NO. 38 OF 40	

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**GENERAL NOTES**

- 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.
- ALL SIGNS AND TRAFFIC CONTROL DEVICES SHALL CONFORM TO THE LATEST VERSION OF THE TMUTCD.
- 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.
- NO WORK SHALL BE PERFORMED IN RESIDENTIAL AREAS FROM 7:00 PM TO 7:00 AM.
- 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.
- CONTRACTOR SHALL MAINTAIN TRAFFIC LANES AND DETOURS ACCORDING TO TRAFFIC CONTROL PLANS DURING WORKING HOURS.
- 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.
- 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.
- CONTRACTOR SHALL SECURE LANE/SIDEWALK/BICYCLE FACILITY CLOSURE PERMITS FROM OFFICE OF CITY ENGINEER (MOBILITY PERMIT SECTION AT <https://geohub.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.
- CONTRACTOR SHALL HAVE APPROVED TRAFFIC CONTROL PLAN AND PERMIT AT THE JOB SITE FOR INSPECTION AT ALL TIMES.
- 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.
- 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.
- 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.
- 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.
- 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.
- 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).
- 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.
- 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.
- SPILLAGE RESULTING FROM HAULING OPERATIONS ALONG OR ACROSS ANY PUBLIC TRAVELED WAY SHALL BE REMOVED IMMEDIATELY BY THE CONTRACTOR.
- 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.
- 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.
- THE CONTRACTOR SHALL REPLACE WITHIN 72 HOURS, ALL TRAFFIC SIGNAL LOOP DETECTORS DAMAGED DURING CONSTRUCTION.
- IN GENERAL, A SOLAR POWERED FLASHING ARROW BOARD SHALL BE REQUIRED ON ALL MAJOR THROUGHFARE LANES CLOSURES. EXCEPTIONS TO FLASHING ARROW BOARDS AND/OR IMPLEMENTATION ON RESIDENTIAL LANE CLOSURES SHALL BE APPROVED BY CITY TRAFFIC ENGINEER.
- APPROVED TRAFFIC CONTROL PLAN SHALL BE IN PLACE BEFORE STARTING ANY EXCAVATION.
- 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.
- WATER FILLED BARRIERS MUST BE INSTALLED AND MAINTAINED PER THE MANUFACTURER'S REQUIREMENTS AND ROUTINELY INSPECTED FOR DEFECTS.
- 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.

- DISPOSE OF WATER AND AGENT PROPERLY. DO NOT DRAIN WATER FILLED BARRIER INTO OR ACROSS AN EXISTING TRAVEL LANE.
- PROVIDE BARRIER UNITS THAT ARE CAPABLE OF BEING LIFTED AND MOVED WHEN FILLED IF DRAINING IS NOT POSSIBLE.
- PROVIDE WATER FILLED BARRIER THAT ACTS AS ITS OWN FREE STANDING, NON-REDIRECTIVE END TREATMENT.
- 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.
- 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**

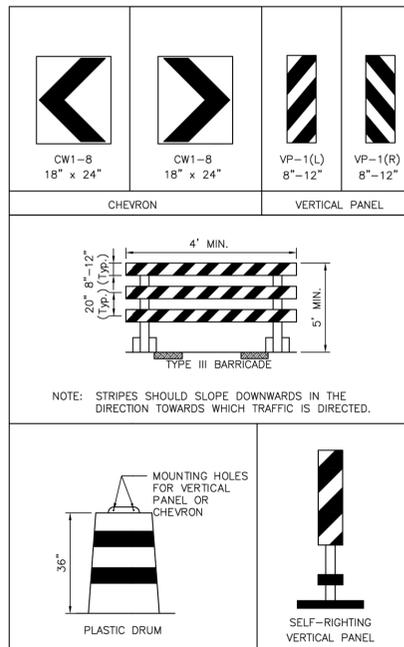
- PLASTIC DRUMS ON MERGING TAPER @ 30' C - C WITH CHEVRON SIGN @ 60' C - C AND WARNING LIGHTS FOR OVERNIGHT CLOSURE.
- PLASTIC DRUMS ON DOWNSTREAM TAPER @ 30' C - C (RETURN TAPER AND BARRICADE ARE OPTIONAL AND DIVIDED ROADWAY SECTION)
- PLASTIC DRUMS ON RADII @ 35' C - C.
- PLASTIC DRUMS ON TANGENT @ 35' C - C WITH VERTICAL PANEL AT 70' C - C AND APPROVED WARNING LIGHT @ 70' C - C (FOR OVERNIGHT CLOSURE).
- 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).
- 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.
- PLASTIC DRUMS W/GUARD RAIL MOUNTED.
- 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.
- SPACING SHOWN ON TRAFFIC CONTROL SHALL SUPERSEDE THE ABOVE SPACING.
- 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**

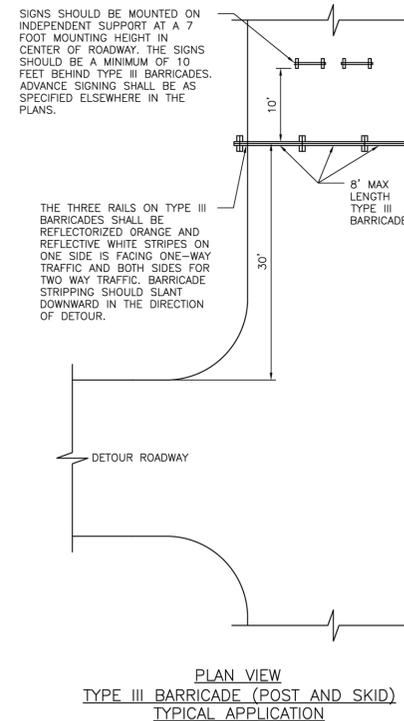
POSTED SPEED (MPH)	SIGN SPACING "X" (FEET)	MIN. DESIRABLE TAPER LENGTH "L"			SUGGESTED MAXIMUM SPACING OF DEVICE	
		10' OFFSET	11' OFFSET	12' OFFSET	ON A TAPER	ON A TANGENT
30	120'	150'	165'	180'	30'	60'-75'
35	160'	205'	225'	245'	35'	70'-90'
40	240'	265'	295'	320'	40'	80'-100'
45	320'	450'	495'	540'	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

APPROVED BY: <i>Sahad Khanwar</i> CITY ENGINEER	APPROVED BY: <i>BRAND NATHAN</i> CITY TRAFFIC ENGINEER
APPROVED BY: <i>Carl Hallock</i> DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV-27-2023	DWG NO: 01555-01
<b>CITY OF HOUSTON</b> HOUSTON PUBLIC WORKS STANDARD	
TCP NOTES CHANNELIZING DEVICES AND BARRICADES	
FOR CITY OF HOUSTON USE ONLY	
DRAWING SCALE	
NOT TO SCALE	

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ISSUED FOR INTERIM REVIEW ONLY

THIS PLAN IS NOT COMPLETE AND IS NOT INTENDED FOR BIDDING, CONSTRUCTION, OR PERMIT PURPOSES.

ENGINEER: JANICE C. NOELDNER  
TX LICENSE No. 131967  
ISSUED: February 2026

**CITY OF HOUSTON**  
HOUSTON PUBLIC WORKS

CITY OF HOUSTON  
FORCE MAIN REHABILITATION AND RECONSTRUCTION -  
GOODYEAR AND SCARSDALE LIFT STATIONS

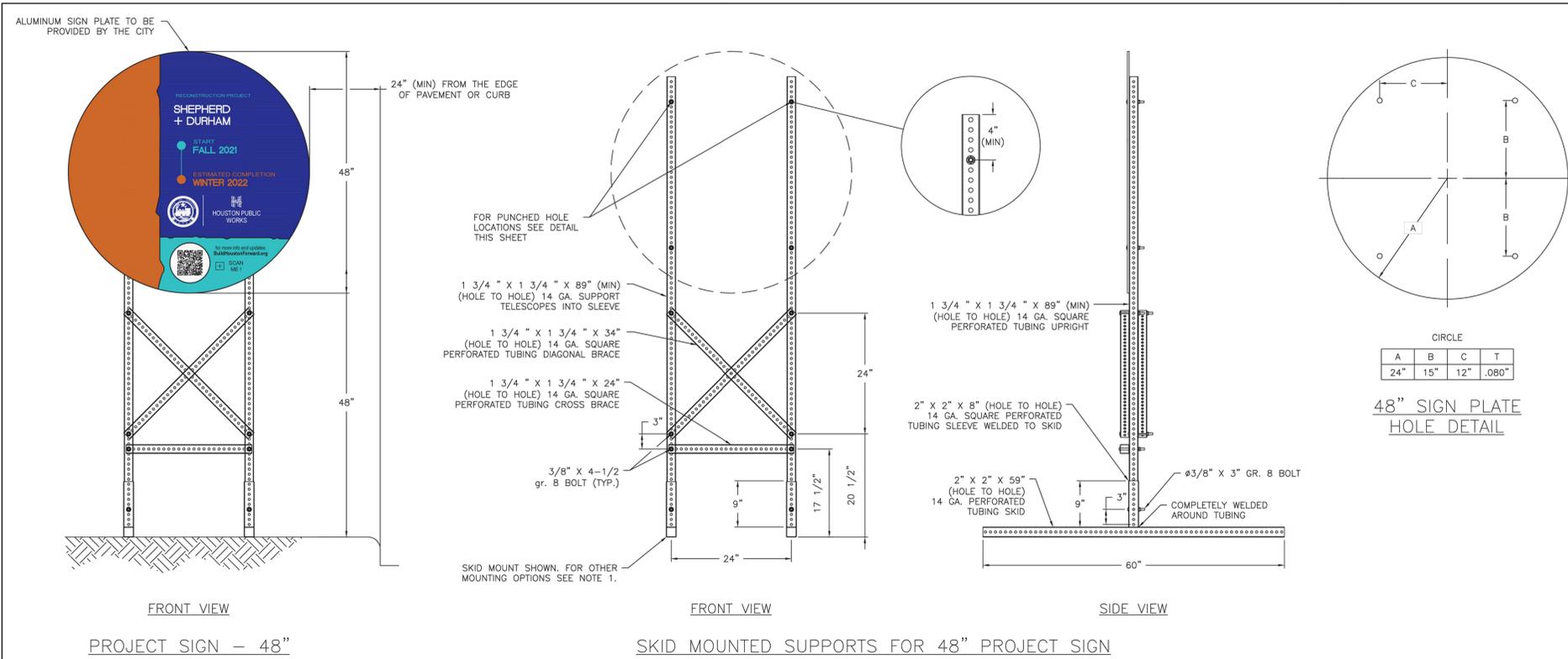
**TRAFFIC CONTROL PLAN DETAILS**

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
S-000100-0019	
DRAWING SCALE	
NTS	
CITY OF HOUSTON PM	
MARIA GEORGE, P.E.	
SHEET NO. 39 OF 40	

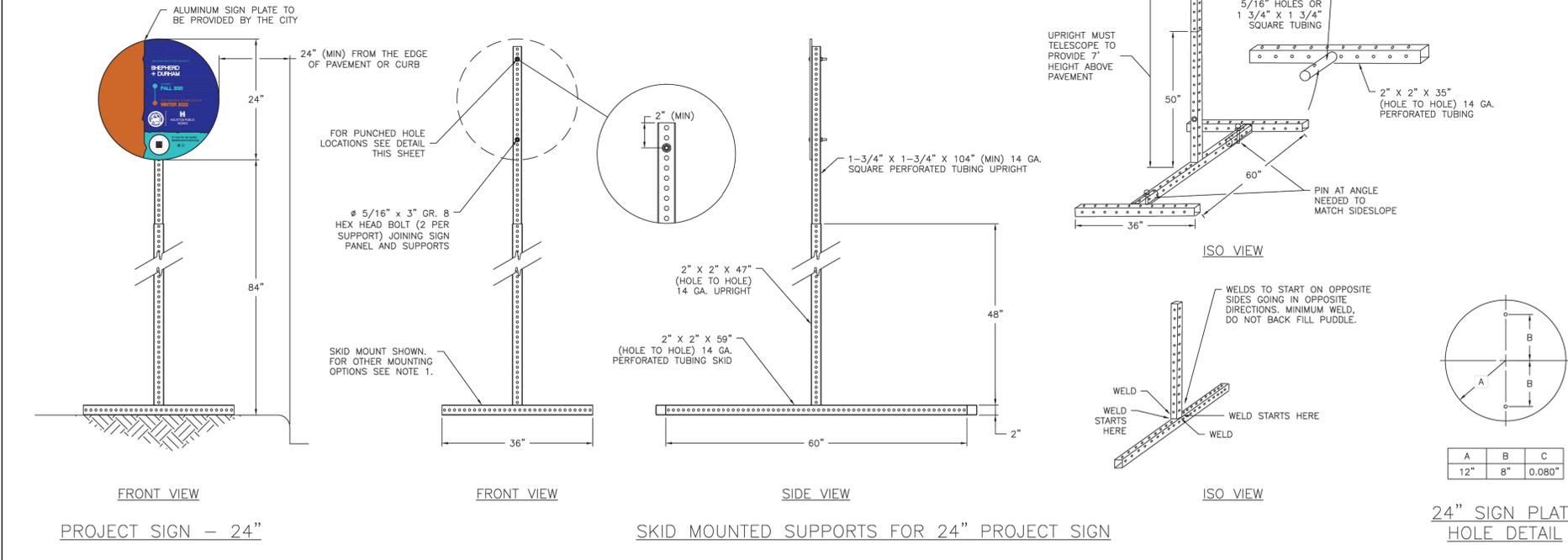
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P:\HOUS\CA\2326078-Force Main Rehab and\CA\01\_Civil\_3D\01\_Shis-Plans\40\_CONSTRUCTION\_SIGN.dwg, 2/9/2026, 11:07:14 AM, Bob Juliano



- NOTES:
1. ALLOWABLE POST INSTALLATION METHODS ARE: CONCRETE FOOTING, SURFACE MOUNTING, SKID MOUNTING AND PILE DRIVEN POSTS.
  2. FOR POST INSTALLATION WITH CONCRETE FOOTING, SEE DETAIL 1509-01.
  3. FOR SURFACE MOUNTED POST INSTALLATION, SEE DETAIL 1509-01A.
  4. FOR SKID MOUNTING REQUIREMENTS SEE SPECIFICATION 01582.
  5. PILE DRIVEN POSTS MUST BE DRIVEN TO A MINIMUM DEPTH OF 4- FEET INTO EXISTING GROUND.
  6. LAYOUT, TEXT SIZE, AND OVERALL DESIGN OF THE SIGN WILL BE THE RESPONSIBILITY OF THE BUILD HOUSTON COORDINATOR.
  7. ALL SIGN POSTS, SIGN TUBING, AND SIGN FASTENERS SHALL BE GALVANIZED STEEL PER SPECIFICATION 01582.



APPROVED BY: DocuSigned by: <i>Suhail Kanwar</i> 9EF880C841F5478...	APPROVED BY: DocuSigned by: <i>C. E. Arnold</i> A83C41087283453...
CITY ENGINEER	DIRECTOR OF HOUSTON PUBLIC WORKS
EFF DATE: JUL-01-2022	DWG NO: 01582-01
CITY OF HOUSTON HOUSTON PUBLIC WORKS	
CONSTRUCTION SIGN BUILD HOUSTON FORWARD	
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<p>SURVEYED BY: LANDTECH FB NO. XXXX</p>	
<p><b>CITY OF HOUSTON</b> HOUSTON PUBLIC WORKS</p>	
<p>CITY OF HOUSTON FORCE MAIN REHABILITATION AND RECONSTRUCTION - GOODYEAR AND SCARSDALE LIFT STATIONS</p>	
<p>CONSTRUCTION SIGN</p>	
<p>WBS NUMBER</p> <p>S-000100-0019</p> <p>DRAWING SCALE</p> <p>NTS</p> <p>CITY OF HOUSTON PM</p> <p>MARIA GEORGE, P.E.</p> <p>SHEET NO. 40 OF 40</p>	<p>FOR CITY OF HOUSTON USE ONLY</p>