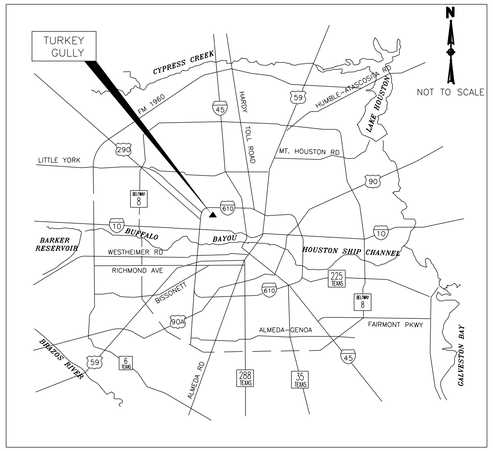
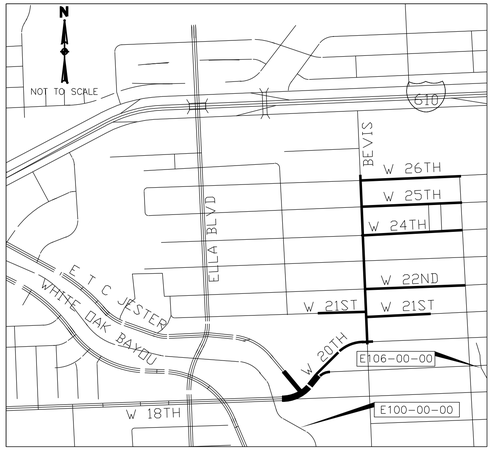
CITY OF HOUSTON
HOUSTON PUBLIC WORKS
CAPITAL PROJECTS

TURKEY GULLY
DRAINAGE & PAVING IMPROVEMENTS
WBS NO. M-410291-0001-4



LOCATION MAP
(NTS)



VICINITY MAP
KEY MAP NO: 452 T & 452 U
COUNCIL DISTRICT C

TDLR EABPR _____

MAYOR
JOHN WHITMIRE

CONTROLLER
CHRIS HOLLINS

DISTRICT
COUNCIL MEMBERS

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

COUNCIL MEMBERS
AT-LARGE

JULIAN RAMIREZ POSITION 1	WILLIE DAVIS POSITION 2
TWILA CARTER POSITION 3	LETITIA PLUMMER POSITION 4
SALLIE ALCORN POSITION 5	

90% PLANS

IDCUS
Planners | Engineers | Construction Managers
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Houston, Texas 77094
(713) 541-5591

TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

THESE PLANS ARE PRELIMINARY AND ARE BEING ISSUED FOR REVIEW BY PUBLIC AGENCIES AND OTHER PRELIMINARY PURPOSES. WHEN ISSUED IN FINAL FORM THEY WILL BE SEALED, SIGNED, AND DATED BY THE RESPONSIBLE ENGINEER.

RESPONSIBLE ENGINEER:
LOC D. DANG, P.E.
P.E. NO. 120420 on 10 / 27 / 2025

PARKS-FORESTRY DEPT.

METRO

HOUSTON WATER

TRANSPORTATION & DRAINAGE OPERATIONS

CAPITAL PROJECTS

SURVEY

CITY ENGINEER DATE

DIRECTOR OF HOUSTON PUBLIC WORKS DATE

SHEET NO 1 OF 278 SHEETS

FOR CITY OF HOUSTON USE ONLY

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

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EXISTING PLAN VIEW

- WATER METER
- WATER VALVE (GATE)
- WATER VALVE (BUTTERFLY)
- FIRE HYDRANT/FLUSHING VALVE
- TAPPING SLEEVE & VALVE
- REDUCER
- ROUND CONNECTION
- SANITARY SEWER CLEANOUT & MANHOLE
- STORM SEWER MANHOLE
- STORM SEWER INLETS
- CULVERT PIPE AND HEADWALL
- UTILITY MARK
- ROW LINE
- EASEMENT LINE
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- EDGE OF DITCHES
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- FENCE LINE
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- CONCRETE WALK
- EDGE OF ASPHALT
- WATER LINE
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- STORM SEWER LINE
- UNDERGROUND POWER LINE W/ MH
- GAS LINE
- GAS METER
- GAS VALVE
- UNDERGROUND SWBT W/ MH
- COLUMN
- GATE
- IRRIGATION CONTROL VALVE
- SPRINKLER HEAD
- MAIL BOX
- PLANTER/GRASS
- SIGN
- SIGNAL POLE
- STREET LIGHT/FLOOD LIGHT
- STREET LIGHT/PARKING LIGHT
- BUILDING
- TREE/TREE-CREPE MYRTLE/TREE-PINE
- BRUSH ROW/BUSH
- HEDGE ROW OR TREE LINE
- IRON PIPE OR IRON ROD MONUMENT
- AERIAL POWER LINE
- POWER POLE
- POWER POLE W/DOWN GUY
- POWER POLE W/LT.

PROPOSED PLAN VIEW

- WATER VALVE (GATE)
- WATER VALVE (BUTTERFLY)
- FIRE HYDRANT/FLUSHING VALVE
- TAPPING SLEEVE & VALVE
- REDUCER
- BOREHOLE
- SANITARY SEWER CLEANOUT & MANHOLE
- STORM SEWER MANHOLE
- STORM SEWER INLETS
- CULVERT PIPE AND HEADWALL
- CULVERT PIPE AND SET
- ROW LINE
- EASEMENT LINE
- EDGE OF DITCHES
- CENTER LINE OF DITCHES
- CONTOUR LINE
- CURB LINE
- CONCRETE WALK
- EDGE OF ASPHALT
- WATER LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- POINT OF CURVE (PC)
  POINT OF TANGENCY (PT)

EXISTING PROFILE VIEW

- NG @ N OR E ROW
- NG @ S OR W ROW
- NG @ CENTERLINE OR BASELINE
- CENTERPOINT ENERGY CONDUIT
- GAS LINE
- CULVERT
- WATER LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- SANITARY SEWER MANHOLE & CLEANOUT
- STORM SEWER MANHOLE

EXISTING PROFILE VIEW

- CENTERPOINT ENERGY MANHOLE
- AT&T/SWBT TELEPHONE MANHOLE
- AT&T CONDUIT

PROPOSED PROFILE VIEW

- PGL @ N OR E CURB
- PGL @ S OR W CURB
- N OR E DITCH FLOWLINE
- S OR W DITCH FLOWLINE
- PGL @ CENTERLINE OR BASELINE
- CULVERT
- WATER LINE
- SANITARY SEWER LINE
- STORM SEWER LINE
- SANITARY SEWER MANHOLE & CLEANOUT
- STORM SEWER MANHOLE

ABBREVIATIONS:

HCFCD	HARRIS COUNTY FLOOD CONTROL DISTRICT
HDPE	HIGH-DENSITY POLYETHYLENE
HGL	HYDRAULIC GRADE LINE
HP	HIGH PRESSURE
INV EL	INVERT ELEVATION
IP	IRON PIPE
IR	IRON ROD
J-BOX	JUNCTION BOX
JT	JOINT
LF	LINEAR FEET
LN	LANE
LT	LEFT/LIGHT
MAX	MAXIMUM
METRO	METROPOLITAN TRANSIT AUTHORITY
MH	MANHOLE
MIN	MINIMUM
MON	MONUMENT
N	NORTH
NA	NOT APPLICABLE
NAVD	NORTH AMERICAN VERTICAL DATUM
NG	NATURAL GROUND
NO	NUMBER
NTS	NOT TO SCALE
OS	OFFSET
OH	OVERHEAD
PC	POINT OF CURVE
PCC	POINT OF COMPOUND CURVATURE
PERM	PERMANENT
PGL	PROFILE GRADE LINE
PI	POINT OF INTERSECTION
PL	PROPERTY LINE
PPCA	POTENTIALLY PETROLEUM CONTAMINATED AREA
PROP	PROPOSED
PSI	POUND PER SQUARE INCH
PT	POINT OF TANGENCY
PVC	POLYVINYL CHLORIDE PIPE / POINT OF VERTICAL CURVATURE
PVMT	PAVEMENT
PVI	POINT OF VERTICAL INTERSECTION
PVT	POINT OF VERTICAL TANGENCY

ABBREVIATIONS:

&	AND
@	AT
AB	ALL BELL
AC	ACRE / ASBESTOS CEMENT
APPROX	APPROXIMATELY
ASPH	ASPHALT
AVE	AVENUE
℄	BASELINE
B/B	BACK TO BACK
BC	BACK OF CURB
BFV	BUTTERFLY VALVE
BL	BUILDING LINE
BLDG	BUILDING
BLVD	BOULEVARD
℄	CENTER LINE
C/C	CENTER TO CENTER
CE	CONSTRUCTION EASEMENT
CIP	CAST IRON PIPE
CLR	CLEARANCE
CO	CLEAN OUT
COH	CITY OF HOUSTON
CONC	CONCRETE
CONSTR	CONSTRUCTION
CPEE	CENTERPOINT ENERGY ELECTRIC
CPEG	CENTERPOINT ENERGY GAS
DE	DRAINAGE EASEMENT
DIA	DIAMETER
DIP	DUCTILE IRON PIPE
DR	DRIVE
DWG	DRAWING
DWY	DRIVEWAY
E	EAST
EL	ELEVATION
EP	EDGE OF PAVEMENT
E/R	END OF RADIUS
ESMT	EASEMENT
EXIST	EXISTING
FC	FACE OF CURB
F/F	FACE TO FACE
FH	FIRE HYDRANT
℉	FLOW LINE
FM	FORCE MAIN
FT	FEET
GPS	GLOBAL POSITIONING SYSTEM
GV	GATE VALVE
GV&B	GATE VALVE AND BOX

ABBREVIATIONS:

Ⓡ	RECORD DRAWING
R	RADIUS
RCB	REINFORCED CONCRETE BOX
RCP	REINFORCED CONCRETE PIPE
RD	ROAD
REINF	REINFORCED
REM	REMOVABLE
RJ	RESTRAINED JOINT
ROW	RIGHT OF WAY
RT	RIGHT
S	SOUTH
SAN	SANITARY
SCHED	SCHEDULE
SF	SQUARE FEET
SHT	SHEET
SSE	SANITARY SEWER EASEMENT
ST	STREET
STA	STATION
STD	STANDARD
STL	STEEL
STM	STORM
SWBT	SOUTHWESTERN BELL TELEPHONE
SWR	SEWER
SY	SQUARE YARD
TAN	TANGENT
TBM	TEMPORARY BENCHMARK
TEMP	TEMPORARY
TOB	TOP OF BANK
TOC	TOP OF CURB
TOP	TOP OF PAVEMENT
TOS	TOP OF STACK
TS&V	TAPPING SLEEVE AND VALVE
TXDOT	TEXAS DEPARTMENT OF TRANSPORTATION
TYP	TYPICAL
UE	UTILITY EASEMENT
UGND	UNDERGROUND
VC	VERTICAL CURVE
VPI	VERTICAL POINT OF INTERSECTION
W	WEST
W/	WITH
WL	WATER LINE
WLE	WATER LINE EASEMENT
WM	WATER METER
WP	WOOD POLE
WSEL	WATER SURFACE ELEVATION
WV	WATER VALVE
WWTP	WASTE WATER TREATMENT PLANT

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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
LEGENDS AND ABBREVIATIONS

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GENERAL CONSTRUCTION NOTES

1. 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 THE CITY OF HOUSTON, HOUSTON PUBLIC WORKS.

2. 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 THE CITY OF HOUSTON, HOUSTON PUBLIC WORKS. GEOTECHNICAL INVESTIGATION TURKEY GULLY DRAINAGE AND PAVING PREPARED BY GEOTEST ENGINEERING, INC. (REPORT NO. 1140296501).

3. 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 713-223-4567/811 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 SECTION 18.6 AND THE AMERICAN PUBLIC WORKS ADMINISTRATION (APWA) UNIFORM COLOR CODE.

4. 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 CITY OF HOUSTON, HOUSTON PUBLIC WORK'S 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.

5. CONTRACTOR SHALL NOTIFY THE OFFICE OF THE CITY ENGINEER, DEPARTMENT OF HOUSTON PUBLIC WORKS AT 832-394-9098 OR VIA FAX AT 832-395-4424 FOR INSPECTION AT LEAST 48 HOURS PRIOR TO COMMENCING CONSTRUCTION.

6. 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.

7. CONTRACTOR SHALL COMPLY WITH LATEST EDITION OF OSHA REGULATIONS AND THE STATE OF TEXAS LAWS CONCERNING EXCAVATION.

8. CONTRACTOR SHALL SAW CUT TO FULL DEPTH AT THE LIMIT OF DRIVEWAY RECONSTRUCTION. (LIMIT OF DRIVEWAY RECONSTRUCTION IS SHOWN ON PLANS) (INCIDENTAL TO DRIVEWAY REMOVAL PAY ITEMS).

9. STONE STREET NAME PILLAR THROUGHOUT THE PROJECT SITE SHALL BE REMOVED AND STORED DURING CONSTRUCTION. REINSTALL AT THEIR ORIGINAL LOCATION AFTER CONSTRUCTION IS COMPLETE.

10. CONTRACTOR SHALL MAINTAIN ALL PVC YARD DRAINS, EXTEND & ADJUST AS NECESSARY. WHEN CONNECTING THROUGH A CURB USE 4" SCHEDULE 40 PIPE PER PVC YARD DRAIN DETAIL

11. CONTRACTOR SHALL NOT DISTURB OR DAMAGE EXISTING LANDSCAPE DURING CONSTRUCTION. CONTRACTOR TO RESTORE LANDSCAPE IF EXISTING LANDSCAPE IS DISTURBED OR DAMAGED DURING CONSTRUCTION AT NO ADDITIONAL COST.

12. PROTECT EXISTING RESIDENTIAL LANDSCAPE, PRIVATE PROPERTY STRUCTURES SUCH AS RETAINING WALLS, STAIRS, DECORATIVE WALKWAY, YARD LIGHTS, ENTRANCE GATES, COLUMNS, FENCE AND ITS ELECTRICAL WIRES AND DECORATIVE AMENITIES THAT SHALL REMAIN IN PLACE FROM DAMAGE DURING CONSTRUCTION. ANY REMOVAL OF EXISTIN RESIDENTIAL FEATURES MUST BE COORDINATED WITH THE PROPERTY OWNER/RESIDENTS AND APPROVED BY THE FIELD ENGINEER.

13. WATER SERVICE LINES AND SANITARY SERVICE LINES ARE NOT ALLOWED THRU PROPOSED STORM SEWER CONCRETE BOX. CONTRACTOR TO REMOVE & ABANDON THE MAIN LINE EXISTING VALVE BOXES BY REMOVING THE STACK AND FILLING WITH CONCRETE.

14. WHEN RE-GRADING EXISTING DITCHES, RE-ROUTE DITCH ALIGNMENT IF NECESSARY TO AVOID DAMAGE TO TREES.

15. CONTRACTOR TO CHECK GROUND WATER ELEVATIONS PRIOR STORM SEWER CONSTRUCTION TO IDENTIFY IF THE TRENCH WILL BE WET OR DRY. USE CITY OF HOUSTON STORM SEWER BEDDING AND BACKFILL FOR DRY STABLE TRENCH AND STORM SEWER BEDDING AND BACKFILL WITH SEAL SLAB STANDARDS ACCORDINGLY. CONTRACTOR TO CALCULATE AND VERIFY 18" MIN CLR BETWEEN PROPOSED STORM SEWER AND PROPOSED WATERLINE BASED ON THESE CONDITIONS.

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

17. CONTRACTOR SHALL CONSTRUCT DRIVEWAY CURB RETURN AT THE END OF PROP CURB AT VARIABLE HEIGHT INCIDENTAL TO DRIVEWAY PAY ITEM. (NO SEPARATE PAY)

18. THE TRENCHLESS CONSTRUCTION METHOD WILL BE USED FOR WATER LINE CONSTRUCTION UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION DRAWINGS, PROJECT MANUAL, OR OTHERWISE INSTRUCTED BY THE CITY ENGINEER OR OTHERWISE REQUESTED BY CONTRACTOR AND APPROVED BY THE CITY ENGINEER. WHENEVER POSSIBLE, THE CONTRACTOR SHALL MAKE AN EFFORT TO LOCATE PITS AWAY FROM EXISTING CONCRETE OR ASPHALT PAVEMENT, DRIVEWAYS, FENCES, CULVERTS, INLETS, MANHOLES, POWER POLES, FLAG POLES, STREET LIGHT, TREES, LAWNS, LANDSCAPES, EXISTING STRUCTURES AND OTHER IMPROVEMENTS. NO PITS ARE ALLOWED WITHIN DRIVEWAYS, CANOPY OF 6-INCH OR LARGER TREES OR LANDSCAPES UNLESS OTHERWISE INSTRUCTED BY THE CITY ENGINEER. NO SEPARATE PAYMENT WILL BE MADE FOR ANY NON-TRENCHLESS METHODS OF INSTALLATION.

19. CONTRACTOR TO MAKE SMOOTH TRANSITION BETWEEN PROPOSED IMPROVEMENTS SUCH AS CURB, PAVEMENT, AND SIDEWALK TO EXISTING FEATURES, CURB, PAVEMENT, AND SIDEWALK. (NO SEPARATE PAY)

20. PRIVATE UNDERGROUND UTILITY SHOWN ON THE PLANS IS THE BEST INFORMATION AVAILABLE. THE CITY DO NOT WARRANTY THE ACCURACY AND COMPLETENESS OF THE EXISTING UTILITIES. FIELD VERIFICATION SHOULD BE DONE PRIOR TO EACH ACTIVITY AS NECESSARY. CONTRACTOR SHALL ANTICIPATE LOCATING, EXPOSING AND SUPPORTING BURIED CONDUITS/CABLES. CONTRACTOR TO TEMPORARILY MOVE OR SUPPORT EXPOSED BURIED CABLE IF THEY ARE FOUND TO BE IN CONFLICT WITH PROPOSED INSTALLATION. IF BURIED CABLES REQUIRES RELOCATION, CONTRACTOR TO COORDINATE WITH PRIVATE UTILITY COMPANIES AS SOON AS POSSIBLE TO ALLOW TIMELY RELOCATION. COST TO TEMPORARY SUPPORT AND COORDINATION WITH PRIVATE UTILITY COMPANIES IS INCIDENTAL TO WORK ELEMENTS.

GENERAL CONSTRUCTION NOTES (CONTINUED)

21. CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING WITH RESIDENTS AND THE HOA FOR HANDLING OF ANY PRIVATE FEATURES WITHIN COH ROW WITH MINIMUM OF 72 HOURS PRIOR TO ANY CONSTRUCTION ACTIVITIES WHICH MAY IMPACT THESE FEATURE. THESE FEATURE MAY INCLUDE BUT ARE NOT LIMITED TO: EXISTING IRRIGATION SYSTEMS (INCLUDING SPRAY, ROTARY HEADS AND RELATED PIPING AND ELECTRICAL WIRING). MAILBOXES, DECORATE WALKWAY/BRIDGES, LANDSCAPING, YARD LIGHTS, AND EXISTING YARD DRAINS. ALL LANDSCAPING, IRRIGATION AND PRIVATE ELECTRICAL CONDUITS AND/OR EQUIPMENT INCLUDING SPRINKLER SYSTEMS WHICH ARE AFFECTED BY CONSTRUCTION OF PROPOSED PAVEMENT, DRIVEWAY, SIDEWALK, STORM SEWER AND/OR WATERLINE/WASTEWATER LINE REPLACEMENT AND/OR CONTRACTOR ACTIVITIES WILL BE CONSIDERED INCIDENTAL TO THE VARIOUS CONSTRUCTION BID ITEMS INCLUDED IN DOCUMENT 00410-BID FORM, PART A&B.

22. UNLESS OTHERWISE NOTED AND APPROVED ON DRAWINGS, CONSTRUCT CIVIL INFRASTRUCTURE IN ACCORDANCE WITH THE EFFECTIVE EDITION OF THE HOUSTON DETAILS, AND SUPPLEMENTS, ADDENDA AND AMENDMENTS THERETO. THE LATEST HTTP://WWW.HOUSTONPERMITTINGCENTER.ORG/OFFICE-CITY-ENGINEER/DESIGN-AND-CONSTRUCTION-STANDARDS.

23. THE DESIGN MUST BE SONSISTENT WITH THE EFFECTIVE EDITION OF HOUSTON PUBLIC WORKS INFRASTRUCTURE DESIGN MANUAL AND TCEQ (TEXAS COMMISSION ON ENVIRONMENTAL QUALITY) REQUIREMENTS.

24. CONTRACTOR SHALL TAKE NECESSARY PRECAUTIONS TO PROTECT ROOT SYSTEMS OF SHRUBS, PLANTS AND TREES ALONG THE AREA OF EXCAVATION.

25. CONTRACTOR SHALL MAINTAIN A SET OF REDLINE DRAWINGS AND RECORD AS-BUILT CONDITIONS DURING CONSTRUCTION. THESE AS-BUILT 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.

PRIVATE UTILITY NOTES

AT&T TEXAS/SWBT FACILITIES

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

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

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

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

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

6. PLEASE CONTACT THE AT&T TEXAS DAMAGE PREVENTION MANAGER MR. KEVIN RAY. AT (713) 614-1983 OR EMAIL HIM AT kr7896@att.com, IF CABLE LOCATE REQUESTCSJ ARE NOT COMPLETED FOR OUR AT&T TEXAS/SWBT FACILITIES.

CENTERPOINT ENERGY NOTES
CAUTION: UNDERGROUND GAS FACILITIES

LOCATION OF CENTERPOINT ENERGY MAIN LINES CTO INCLUDE CENTERPOINT ENERGY, INTRASTATE PIPELINE, LLC. WHERE APPLICABLEJ ARE SHOWN IN THE APPROXIMATE LOCATION ONLY. SERVICE LINES ARE USUALLY NOT SHOWN. OUR SIGNATURE ON THESE PLANS ONLY INDICATES THAT OUR FACILITIES ARE SHOWN IN APPROXIMATE LOCATION. IT DOES NOT IMPLY THAT A CONFLICT ANALYSIS HAS BEEN MADE. THE CONTRACTOR SHALL CONTACT THE UTILITY COORDINATING COMMITTEE AT 1-800-545-6005 OR 811 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE MAIN AND SERVICE LINES FIELD LOCATED.

* WHEN CENTERPOINT ENERGY PIPE LINE MARKINGS ARE NOT VISIBLE, CALL (713) 207-5463 OR (713) 945-8037 (7:00AM TO 4:30PM) 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 EXCESSIV STRESS ON THE PIPING.

* FOR EMERGENCIES REGARDING GAS LINE CALL (713) 659-2111 OR (713) 207-4200.

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

WARNING: OVERHEAD ELECTRICAL LINES

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

* ANY ACTIVITY WHERE PERSON OR THINGS MAY COME WITHIN SIX(6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES; AND

* OPERATING A CRANE, DERRICK, POWER SHOVEL, DRILLING RIG, PILE DRIVER, HOISTING EQUIPMENT, OR SIMILAR APPARATUS WITHIN 10 FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES.

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

ACTIVITIES ON OR ACROSS CENTERPOINT ENERGY FEE OR EASEMENT PROPERTY

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

WARNING: UNDERGROUND ELECTRICAL LINES

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

*ALL INFORMATION CONCERNING TYPE AND LOCATION OF UNDERGROUND UTILITIES IS NOT GUARANTEED TO BE ACCURATE OF ALL INCLUSIVE. THE CONTRACTOR ARE IRRESPONSIBLE MAKING THEIR OWN DETERMINATIONS AS TO TYPE AND LOCATION OF UNDERGROUND UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE THERETO. THE CONTRACTOR SHALL VERIFY LOCATION OF UNDERGROUND PIPELINES, CONDUITS, AND STRUCTURES BY CONTACTING OWNERS OF UNDERGROUND UTILITIES OR BY EXCAVATING IN ADVANCE OF CONSTRUCTION.

*THE CONTRACTOR IS RESPONSIBLE FOR DE TERMING THE EXACT LOCATION OF ALL UTILITIES WHEN AND WHERE THEY FALL IN THE PATH OF CONSTRUCTION.

*THE CONTRACTOR IS ALSO RESPONSIBLE FOR CONTACTING THE UTILITY COORDINATING COMMITTEE AT C713J223-4567 AND TEXAS ONE CALL AT 1-800-245-4545, FORTY -EIGHT(48) HOURS PRIOR TO ANY CONSTRUCTION.

*THE LOCATION OF ANY CENTERPOINT ENERGY UTILITIES ARE SHOWN IN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. THEY AGREE TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.

*ALL PROPOSED FACILITIES SHALL MAINTAIN 24" CLEAR FROM ALL EXISTING UTILITIES. UNLESS SPECIFIED OTHERWISE IN THE PLAN.

FLOOD PLAIN MANAGEMENT INFORMATION

PARTIAL PART OF THE PROJECT IS LOCATED WITHIN THE 100-YR FLOODWAY AND THE REMAINING OF THE PROJECT IS WITHIN THE 100-YEAR FLOOD PLAIN PER THE FEDERAL EMERGENCY MANAGMENT AGENCY (FEMA) FLOOD INSURANCE RATE MAP (FIRM) PANEL 670 OF 1150. MAP# 48201C0670M MAP REVISED JUNE 9, 2014

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.

Date

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

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591

TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

THESE PLANS ARE PRELIMINARY AND ARE BEING ISSUED FOR REVIEW BY PUBLIC AGENCIES AND OTHER PRELIMINARY PURPOSES. WHEN ISSUED IN FINAL FORM THEY WILL BE SEALED, SIGNED, AND DATED BY THE RESPONSIBLE ENGINEER.

RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO. 113348 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

GENERAL CONSTRUCTION NOTES AND UTILITY NOTES

SHEET 01 OF 03

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
CITY OF HOUSTON PM	
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SHEET NO. 4 OF 278	

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TURKEY-GEN-NOTE01

METRO NOTES

1. CONTRACTOR SHALL NOTIFY METRO AT 713-615-6195 TWO WEEKS PRIOR TO DISTURBING EXISTING BUS STOPS.
-BSID IS TO BE INCLUDED IN NOTIFICATION.
-METRO'S INTERACTIVE MAP WITH STOP LOCATIONS AND BSIDs
https://www.ridemetro.org/Poges/SystemMop.ospx

2. CONTRACTOR SHALL COORDINATE WITH METRO TO REMOVE EXISTING AMENITIES. CONTACT busstops@ridemetro.org

3. BUS STOPS SHALL CONSTRUCTED PER CITY OF HOUSTON INFRASTRUCTURE DESIGN MANUAL AND MEET CURRENT ADA REQUIREMENTS.

4. FOR LANE AND/OR SIDEWALK CLOSURE, CONTRACTOR MUST NOTIFY METRO BUS OPERATIONS (TRANSPORTATION) AT THE FOLLOWING THREE EMAIL ADDRESS: ISRAEL.GARCIA@RIDEMETRO.ORG, CARL.TAYLOR@RIDEMETRO.ORG (713-615-7219) AND SHIRLY.MITCHELL@RIDEMETRO.ORG A MINIMUM OF 7-10 WORKING DAYS IN ADVANCE OF COMMENCING WORK.

5. METRO WILL REMOVE ANY EXISTING AMENITIES AND REPLACE ONCE THE BUS PAD HAS BEEN COMPLETED PER BUS PAD/STOP STANDARDS.

6. CONTRACTOR TO COORDINATE WITH METRO FOR RELOCATING TEMPORARY BUS STOPS DURING CONSTRUCTION.

7. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL SECURE "TRACK ALLOCATION PERMITS" ISSUED BY METRO RAIL OPERATIONS. CONTACT EDDIE ESPINOSA (EDDIE. ESPINOSA@RIDEMETRO. ORG, 832-392-0758) FOR TRACK ALLOCATION REQUESTS AND TRACK ACCESS PROCEDURES.

8. ALL CONTRACTORS MUST SUCCESSFULLY COMPLETE THE METRO RAIL TRACK SAFETY COURSE PRIOR TO CONSTRUCTION. THE COURSE IS HELD AT THE SERVICE AND INSPECTION FACILITY (S&I) LOCATED AT 5880 TEXAS STREET, HOUSTON, TEXAS 77011, ROOM #107 AND IS OFFERED IN BOTH ENGLISH AND SPANISH. CONTRACTOR MUST EMAIL TRACK. SAFETY@RIDEMETRO.ORG TO SCHEDULE THE CLASS. TRACK SAFETY CERTIFICATION FOR CONTRACTOR IS VALID FOR 1 YEAR.

9. TRACKWAY ALLOCATION REQUEST FORM MUST BE SUBMITTED BY 5:00PM TUESDAY PRIOR TO THE WEEK OF THE SCHEDULED WORK.

10. WORK ACTIVITIES WITHIN TEN FEET OF THE OVERHEAD CONTACT SYSTEM (OCS) REQUIRE A RED TAG IN ADDITION TO A METRO RAIL WORK PERMIT. THE SUPERINTENDENT, RAIL CONTROL, OR DESIGNEE MAY ALSO REQUIRE A RED TAG DUE TO OTHER SPECIAL CONDITIONS OR SITUATIONS (E. G., CRANES, AREAS OF HEAVY CONSTRUCTION, ETC.).

11. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO ANY METRO FACILITIES DAMAGED DURING CONSTRUCTION. IF THE CONTRACTOR CANNOT IMMEDIATELY MAKE THE REPAIRS TO METR05/32 S SATISFACTION, METRO WILL MAKE THE REPAIRS AND BILL THE COST TO THE CONTRACTOR.

12. PRIOR TO CONSTRUCTION THE CONTRACTOR SHALL VERIFY IN THE FIELD THAT THERE ARE NO CONFLICTS WITH OUR FIBER OPTICS, COMMUNICATION, SIGNALING, ELECTRICAL POWER, HIGH VOLTAGE CABLES OR ANY OTHER METRO INFRASTRUCTURE.

13. THE CONTRACTOR SHALL CONTACT THE PLANNING, ENGINEERING, AND CONSTRUCTION DEPARTMENT, MUSTAQUE RUMI BY EMAIL AT MUSTAQUE.RUMI@RIDEMETRO.ORG OR BY PHONE 713-615-6217 ONE WEEK PRIOR TO CONSTRUCTION. THE CONSTRUCTION DEPARTMENT MAY ASSIGN AN INSPECTOR TO ASSURE NO DAMAGES ARE MADE TO METRO'S FACILITIES.

14. THE CONTRACTOR SHALL "HAND EXCAVATE" IN THE VICINITY OF COMMUNICATION AND POWER LINES FEEDING THE METRO SYSTEM.

15. AUGER BORE PITS SHALL BE LOCATED AT A MINIMUM DISTANCE OF THIRTY-FIVE FEET (35') FROM CENTERLINE OF TRACKS.

16. THE CONTRACTOR SHALL CONTACT METRO BUS OPERATIONS A MINIMUM OF TEN (10) WORKING DAYS PRIOR TO CONSTRUCTION CHANGES. THE CONTACT INFORMATION IS CARL TAYLOR, CARL. TAYLOR@RIDEMETRO.ORG 713-615-7219.

17. THE CONTRACTOR SHALL PROVIDE ANY TEMPORARY BUS STOP FACILITIES NEEDED, EXCEPT FOR BUS STOP SIGNS, AT NO COST TO METRO AND SHALL RESTORE ANY AFFECTED BUS STOP TO ITS ORIGINAL CONDITION AND MEET CURRENT AMERICAN DISABILITY ACT (ADA) REQUIREMENTS AS REQUIRED BY LOCAL, STATE, AND FEDERAL CODE AND REQUIREMENTS. NO BUS STOP SHALL BE PERMANENTLY REMOVED WITHOUT APPROVAL FROM METRO.

18. THE CONTRACTOR SHALL CONTACT THE DIRECTOR OF UNIVERSAL ACCESSIBILITY, TIM MILLS BY EMAIL AT TM14@RIDEMETRO.ORG OR BY PHONE 713-739-6861 ONE WEEK PRIOR TO CONSTRUCTION. METRO MAY ASSIGN AN INSPECTOR TO ASSURE NO DAMAGES ARE MADE TO METRO'S FACILITIES. UNIVERSAL ACCESSIBILITY WILL COORDINATE ANY PERMANENT OR TEMPORARY IMPACT ON BUS STOPS, SHELTERS, AND SIDEWALK TO MAINTAIN ACCESSIBILITY.

19.METRO REQUIRES THE CONTRACTOR TO PROIVDE A CERTIFICATE OF INSURANCE SHOWING A GENERAL LIABILITY POLICE WITH A ONE MILLION EACH OCCURRENCE LIMIT FOR WORK BEING DONE UNDER METRO RAIL LINE. CONTRACTOR TO LIST METRO AS ADDITIONAL INSURANCE.

STANDARD HCFCD NOTES FOR CONSTRUCTION DRAWINGS

1. 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.

2. NOTIFY THE HARRIS COUNTY FLOOD CONTROL DISTRICT'S DEVELOPMENT COORDINATION AND INSPECTION DEPARTMENT 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 FREEWAY, HOUSTON, TEXAS 77092, ATTN: DEVELOPMENT COORDINATION AND INSPECTION DEPT. BY HAND DELIVERY, BY EMAIL DCID@HCFCD.ORG, OR FAX TO 713-684-4129 (FAX NUMBER).

3. 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 FLOODCONTROL DISTRICT RIGHT-OF-WAY. PRIORTO REQUESTING INSPECTION, THE DRAINAGE RIGHT-OF-WAY AND/OR EASEMENTS SHALL BE STAKED AND FLAGGED.

4. PROTECT, MAINTAIN, AND RESTORE EXISTING BACKSLOPE DRAINAGE SYSTEMS.

5. BACKSLOPE SWALE AND INTERCEPTOR STRUCTURE ELEVATION AND LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. FINAL ELEVATIONS AND LOCATIONS SHALL BE FIELD VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION.

6. 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".

7. 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.

8. EXCAVATE CHANNEL FLOWLINE TO DESIGN ELEVATION AS SHOWN ON PLANS AND DOWNSTREAM, AS NECESSARY, TO ENSURE NO WATER REMAINS IN THE FACILITY (STORM SEWER, LATERAL CHANNEL, OR DRY BOTTOM DETENTION 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.

9. MAINTAIN FLOW IN CHANNEL DURING CONSTRUCTION AND RESTORE CHANNEL TO ORIGINAL CONDITION.

10. 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.

CITY OF HOUSTON HOUSTON PUBLIC WORKS STORM CONSTRUCTION NOTES

1. STORM SEWER SHALL BE REINFORCED CONCRETE PIPE (C-76, CLASS III), AND SHALL BE INSTALLED, BEDDED, AND BACK FILLED IN ACCORDANCE WITH THE CITY OF HOUSTON DRAWING NOS. 2317-02, 02317-3, 02317-05, 02317-06, AND 02317-07 (JULY 2019) AS APPLICABLE UNLESS OTHERWISW SHOWN ON THE DRAWINGS.

2. ALL STORM SEWER CONSTRUCTED IN SIDELOT EASMENT SHALL BE R. C. P (C-76, CLASS III) AND SHALL BE EMBEDDED IN ACCORDANCE WITH THE CITY OF HOUSTON DRAWING NOS. 02317-02, 02317-03, 02317-05, 0231 7-06, AND 02317-07 AS APPLICABLE.

3. ALL SEWER UNDER PROPOSED OR FUTURE PAVEMENT AND TO A POINT ONE (1) FOOT BACK OF ALL PROPOSED OR FUTURE CURBS SHALL BE BACKFILLED WITH 1-1/2 SACK CEMENT/C. Y. STABLIZED SAND TO WITHIN ONE (1) FOOT OF SUBGRADE. THE REMAINING DEPTH OF TRENCH SHALL BE BACKFILLED WITH SUITABLE EARTH MATERIAL.

4. ALL TRENCH BACKFILL SHALL BE IN 8" LIFTS WITH TESTS TAKEN AT 100 FOOT INTERVALS IN EACH LIFT, AND MECHNICALLY COMPACTED TO A DENSITY OF NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR COMACTION TEST (ASTM D-698/AASHTO T99).

5. CIRCULAR AND ELLIPTICAL REINFORCED CONCRETE PIPE SHALL BE INSTALLED USING RUBBER GASKET JOINT CONFORMING TO ASTM C443 AND ASTM C877 RESPECTIVELY.

6. ALL STORM SEWER PIPES AND INLET LEADS SHALL BE 24" AND LARGER R. C. P. (C-76, CLASSIII).

7. ALL PROPOSED PIPE STUB-OUTS FROM MANHOLES AND INLET LEADS ARE TO BE PLUGGED WITH 8" BRICK WALLS UNLESS OTHERWISE NOTED.

CITY OF HOUSTON HOUSTON PUBLIC WORKS STORM CONSTRUCTION NOTES (CONTINUED)

9. ADJUST MANHOLE COVERS TO GRADE CONFORMING TO REQUIREMENTS OF SECTION 02086-ADJUSTING MANHOLES, INLETS, AND VALAVE BOXES TO GRADE.

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, MAINTAINING, AND RESTORING ANY BACK SLOPE DRAINAGE SYSTEM DISTURBED AS A RESULT OF THIS WORK.

11. ALL DITCHES SHALL BE GRADED TO PROPOSED ELEVATIONS TO INSURE PROPER DRAINAGE. ALL OUTFALLS SHALL BE PROPERLY BACKFILLED AND COMPACTED. ALL DISTURBED AREA SHALL BE REGRADED, SEEDED, AND FERTILIZED.

12.ALL DRIVEWAYS WILL BE LOCATED TO AVOID EXISTING CURB INLET STRUCTURES.

TUNNELING & SHAFT NOTES

1. FIELD LOCATE ALL EXISTING UTILITIES IN PLAN BY ONE CALL MARKING, PLAN DRAWINGS AND/OR SURVEY PRIOR TO SHAFT CONSTRUCTION, AND EXPOSE UTILITY BY HAND EXCAVATION AND/OR HYDRO-VAC EXCAVATION WITHIN 3 FEET OF APPROXIMATE OR RECORD LOCATION AS REQUIRED TO CONFIRM 12" MINIMUM CLEARANCE WITH PROPOSED SHAFT AND FACILITIES. PROTECT ALL UTILITIES TO REMAIN IN SERVICE AND COORDINATE ANY REQUIRED UTILITY ADJUSTMENTS WITH ENGINEER AND UTILITY OWNER.

2. CONTRACTOR TO SUBMIT SHOP DRAWINGS SEALED BY A TEXAS LICENSED PROFESSIONAL ENGINEER PRIOR TO TUNNELING CONSTRUCTION.

3. TUNNEL SHAFT, TEMPORARY SUPPORTS, COVER PLATES AND APPURTENANCE TO BE DESIGNED BY CONTRACTOR'S TEXAS LICENSED PROFESSIONAL ENGINEER.

4. PROTECT TUNNEL SHAFT EXCAVATION AND OPENING AT ALL TIMES BY ENCLOSING WITH A TEMPORARY A 6' HEIGHT CHAIN LINK FENCE (12'X24' MIN) WITH LOCKING GATE, AND COMPLETELY COVER WITH RESTRAINED STEEL PLATES DESIGNED FOR HS-20 WHEEL LOADING. REMOVE FENCE AND PLATES UPON PAVEMENT RESTORATION TO ORIGINAL OR BETTER CONDITION.

5. FIELD LOCATE AND PROTECT ALL PUBLIC AND PRIVATE UTILITIES IN VICINITY OF SHAFT TO REMAIN IN SERVICE, AND NOTIFY CITY OF HOUSTON PM/INSPECTOR AND EOR IF ANY CONFLICT FOUND. COORDINATE ANY UTILITY OR SHAFT ADJUSTMENTS OR RELOCATIONS WITH CITY OF HOUSTON PM/INSPECTOR AND EOR AND UTILITY OWNERS AS APPLICABLE.

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SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO. 113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

GENERAL CONSTRUCTION NOTES AND UTILITY NOTES

SHEET 02 OF 03

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CITY OF HOUSTON – HOUSTON PUBLIC WORKS WATER CONSTRUCTION NOTES

1) ALL 4" THROUGH 12" WATER LINE TO BE AWWA C-900 PVC DR-18 BLUE PRESSURE RATED WATER MAIN WITH 2" AND SMALLER WATER SERVICE LINE TO BE CONTINUOUS TYPE K COPPER TUBING PER COH STANDARD SPECIFICATION SECTION 02503. ALL 4" THRU 54" DI PIPE WATER LINES SHALL BE AWWA C151 WITH INSIDE LINING WITH AWWA C104 AND DOUBLEWRAPPED WITH 8-MIL POLYETHYLENE SHEETS.

2) CONCRETE THRUST BLOCKS SHALL BE PROVIDED AS NECESSARY TO PREVENT PIPE MOVEMENT. USE RESTRAINED JOINTS WHERE PREVENTING PIPE MOVEMENT IS NECESSARY DUE TO THRUST.

3) ALL WATER LINES UNDER PROPOSED OR FUTURE PAVING AND TO A POINT OF ONE (1) FOOT BACK OF ALL PROPOSED OR FUTURE CURBS SHALL BE ENCASED IN BANK SAND TO 12" OVER PIPE AND BACKFILLED WITH CEMENT STABILIZED SAND TO WITHIN ONE (1) FOOT OF SUBGRADE.

4) ALL WATER LINE AND SEWER LINE CROSSINGS SHALL BE CONSTRUCTED PER CITY OF HOUSTON AND TCEQ REGULATIONS.

5) ALL WATER VALVES SHALL BE SUPPLIED AND INS TALLED IN ACCORDANCE WITH THE LATEST EDITION OF AWWA C-500 AND SHALL BE OF THE RESILIENT SEAT TYPE.

6) ALL WATER LINES TO BE DISINFECTED IN CONFORMANCE WITH AWWA C-651 AND THE TEXAS STATE DEPARTMENT OF HEALTH. AT LEAST ONE BACTERIOLOGICAL SAMPLE SHALL BE COLLECTED FOR EVERY 1,000 LINEAR FEET OF WATER LINE AND SHALL BE REPEATED IF CONTMINATION PERSISTS.

7) ALL BELOW GRADE VALVES SHALL BE GASKETED, HUB-END GATE VALVES WITH A CAST IRON BOX, EXCEPT WHERE FLANGES ARE CALLED OUT ON THE PLANS.

8) 4" THRU 12" FITTINGS SHALL BE CEMENT MORTAR LINED COMPACT DUCTILE IRON PRESSURE FITTINGS PER ANSI A21.53, OR PUSH ON FITTINGS PER ANSI A21.10 PRESSURE RATED AT 250 PSIG.

9) HYDROSTATIC TESTING: ALL WATER PIPE SHALL BE TESTED FOR LEAKAGE IN ACCORDANCE WITH THE LATEST CITY OF HOUSTON STANDARD CONSTRUCTION SPECIFICATIONS. TESTS ARE TO BE PERFORMED ON THE ENTIRE FOOTAGE OF WATER PIPE INCLUDED IN THE PROJECT.

10) ALL WATER LINES TO HAVE 4' MINIMUM COVER TO FINISHED GRADE AND MINIMUM 24" CLEARANCE TO OTHER UTILITIES AT CROSSING UNLESS OTHERWISE NOTED ON PLANS. ALL WATER LINE INSTALLED OVER 8' DEEP SHALL UTILIZE RESTRAINED JOINT FITTINGS.

11) CONTRACTOR SHALL KEEP WATER PIPE CLEAN AND CAPPED (OR OTHERWISE EFFECTIVELY COVERED) OPEN PIPE ENDS TO EXCLUDE INSECTS, ANIMALS OR OTHER SOURCES OF CONTAMINATION FROM UNFINISHED LINES AT TIMES WHEN CONSTRUCTION IS NOT IN PROGRESS.

12) WORK ADJACENT TO THE EXISTING 84" PCCP WATER LINE ON W24th ST.

A. CONTRACTOR TO CONTACT MR. JIM WILSON WITH CITY OF HOUSTON DRINKING WATER OPERATIONS AT (832) 901-8307, 48 HOURS PRIOR TO ANY WORK ADJACENT TO EXISTING 84" PCCP WATER LINE.

B. CONTRACTOR TO VERIFY EXACT LOCATION OF EXISTING 84" PCCP WATER LINE PRIOR TO ANY CONSTRUCTION ADJACENT TO WATER LINE. CONTRACTOR TO PERFORM LEVEL A SUE.

C. CONTRACTOR TO PROVIDE LOAD MITIGATION MEASURES WHERE HEAVY MACHINERY CROSSES EXISTING 84" WATER LINE.

D. ALL CONSTRUCTION ACTIVITIES NEAR LARGE DIAMETER WATER LINES MUST COMPLY WITH CITY OF HOUSTON STANDARD SPECIFICATION 02317, AS WELL AS THE CITY OF HOUSTON INFRASTRUCTURE DESIGN MANUAL, CHAPTER 7, APPENDIX A.

GRADING NOTES

1) GENERAL CONTRACTOR AND ALL SUBCONTRACTORS SHALL VERIFY THE SUITABILITY OF ALL EXISTING AND PROPOSED SITE CONDITIONS INCLUDING GRADES AND DIMENSIONS. BEFORE STARTING CONSTRUCTION. THE ENGINEER SHALL BE NOTIFIED IMMEDIATELY OF ANY DISCREPANCIES.

2) BEFORE STARTING CONSTRUCTION, CONTRACTOR SHALL VERIFY BENCHMARK ELEVATION AND NOTIFY ENGINEER IF ANY DISCREPANCY AND/OR CONFLICT IS FOUND.

3) CONTRACTOR SHALL ENSURE THERE IS POSITIVE DRAINAGE FROM THE PROPOSED BUILDINGS AND NO PONDING IN PAVED AREAS, AND SHALL NOTIFY ENGINEER IF ANY GRADING DISCREPANCIES ARE FOUND IN THE EXISTING AND PROPOSED GRADES PRIOR TO PLACEMENT OF PAVEMENT OR UTILITIES.

4) CONTRACTOR SHALL PROTECT ALL MANHOLE COVERS, VALVE COVERS, VAULT LIDS, FIRE HYDRANTS, POWER POLES, GUY WIRES, AND TELEPHONE BOXES THAT ARE TO REMAIN IN PLACE AND UNDISTURBED DURING CONSTRUCTION.

5) ALL EXISTING CONCRETE PAVING, SIDEWALK, AND CURB DEMOLITION SHALL BE REMOVED AND DISPOSED OF BY CONTRACTOR. DISPOSAL SHALL BE AT AN APPROVED OFF-SITE, LAWFUL LOCATION, UNLESS DIRECTED OTHERWISE BY THE OWNER.

CITY OF HOUSTON – HOUSTON PUBLIC WORKS WASTEWATER CONSTRUCTION NOTES

1. ALL SEWERS SHALL 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 217, "DESIGN CRITERIA FOR DOMESTIC WASTEWATER SYSTEMS" SHALL GOVERN WHERE CONFLICTS EXIST EXCEPT WHERE CITY REQUIREMENTS ARE MORE STRINGENT.

2. 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 THE LATEST VERSION AS APPLICABLE.

3. SANITARY SEWER MANHOLES WILL HAVE BEDDING AND BACKFILL PER CITY OF HOUSTON STANDARD DETAILS DRAWING NO. 02317-08 UNLESS OTHERWISE NOTED.

CITY OF HOUSTON – HOUSTON PUBLIC WORKS WASTEWATER CONSTRUCTION NOTES (CONTINUED)

4. 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 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.

5. WHEN SS PRESSURE RATED PVC PIPE IS USED ON WATERLINE (WL) CROSSING UNDER CONDITION 1 OF COH IDM TABLE 7.3, THE SAME TYPE OF D2241 SDR 26 PVC PIPE OR C-900 GREEN DR-18 PVC GREEN 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.

6. AWWA C-900 DR-18 PVC PIPE USES EITHER AWWA C900 DR-18 PVC FITTINGS OR DIP FITTINGS.

7. 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.

8. ALL NEW SANITARY SEWERS CROSSING WATER LINES WITH A CLEARANCE BETWEEN 12 INCHES AND 9 FEET SHALL HAVE A MINIMUM OF ONE $18^{5}/_{32}$ JOINT OF 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.

9. CONTRACTOR SHALL PROVIDE A MINIMUM HORIZONTAL CLEARANCE OF 9' FEET BETWEEN WATER LINES AND SANITARY SEWER MANHOLES AND LINES.

10. 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.

11. IN WET STABLE TRENCH AREAS USE BEDDING PER CITY OF HOUSTON STANDARD DETAILS DRAWING NUMBER 02317-02.

12. 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 EXCEED 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 217.57 LATEST AMENDMENT AND WITHOUT MECHANICAL PULLING DEVICES. NO BALL-TYPE MANDREL IS ALLOWED.

13. INFILTRATION, EXFILTRATION OR LOW-PRESSURE AIR TEST: EITHER OF THE FOLLOWING TESTS SHALL BE PERFORMED AS PER TAC, TITLE 30 217.57 WITHIN THE SPECIFIED TOLERANCES ON ALL GRAVITY SEWERS.

A. 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.

B. 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'
12" 680 SECONDS OR 3.419(L) FOR TEST LENGTHS GREATER THAN 199'
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.

14. "SAN. S. E." INDICATES "SANITARY SEWER EASEMENT"

15. 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 ABUTTING PAVED SURFACE. THE (VALCUN, NEENAH 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 HEXHEAD COARSE THREADED ½"-13 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.

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TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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NOT INTENDED FOR CONSTRUCTION

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO. 113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

GENERAL CONSTRUCTION NOTES AND UTILITY NOTES

SHEET 03 OF 03

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
CITY OF HOUSTON PM	
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SHEET NO. 6 OF 278	

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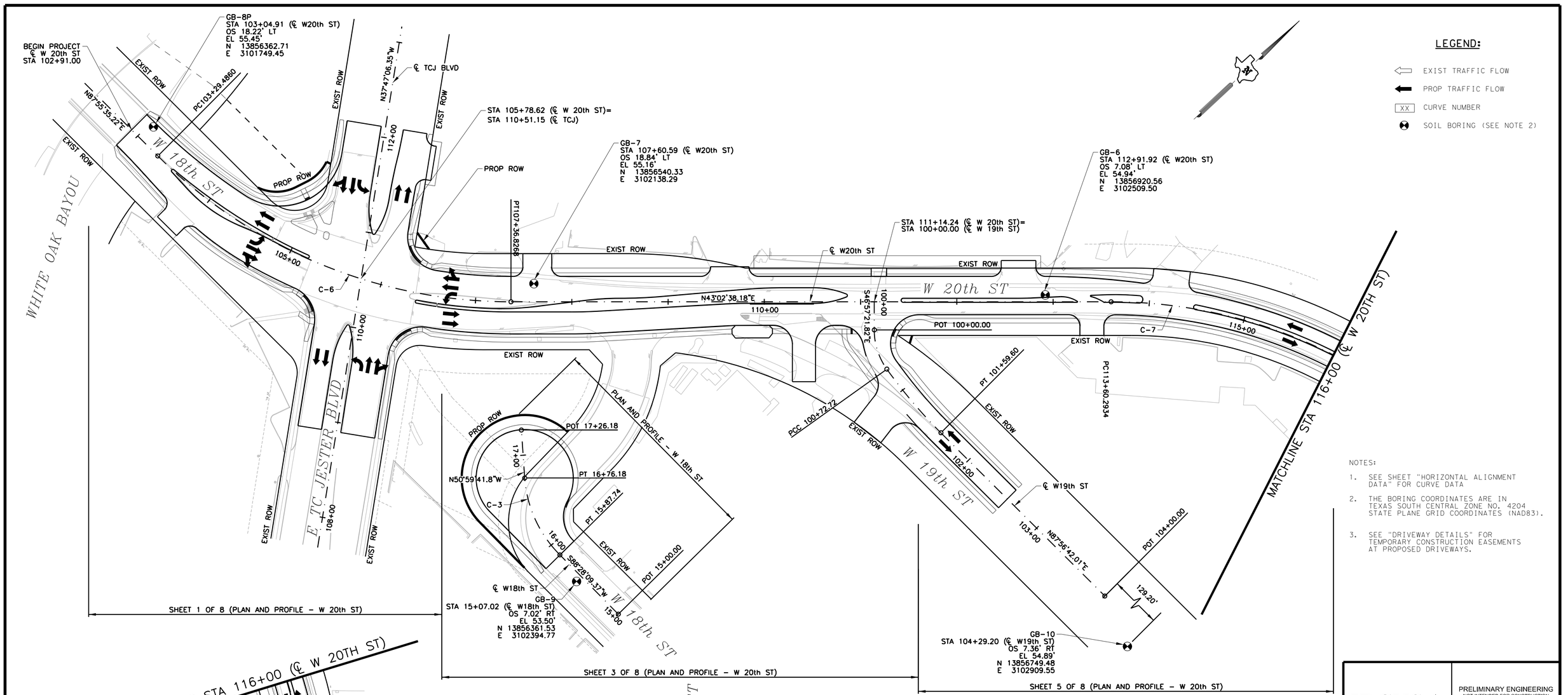

NOTES:

1. SEE SHEET "HORIZONTAL ALIGNMENT DATA" FOR CURVE DATA
2. THE BORING COORDINATES ARE IN TEXAS SOUTH CENTRAL ZONE NO. 4204 STATE PLANE GRID COORDINATES (NAD83).
3. SEE "DRIVEWAY DETAILS" FOR TEMPORARY CONSTRUCTION EASEMENTS AT PROPOSED DRIVEWAYS.

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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

PROJECT LAYOUT

BEGIN TO STA 109+50 (℄ BEVIS)

SHEET 1 OF 2

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-430100-0020-4	
DRAWING SCALE	
NTS	
CITY OF HOUSTON PM	
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SHEET NO. 7 OF 278	

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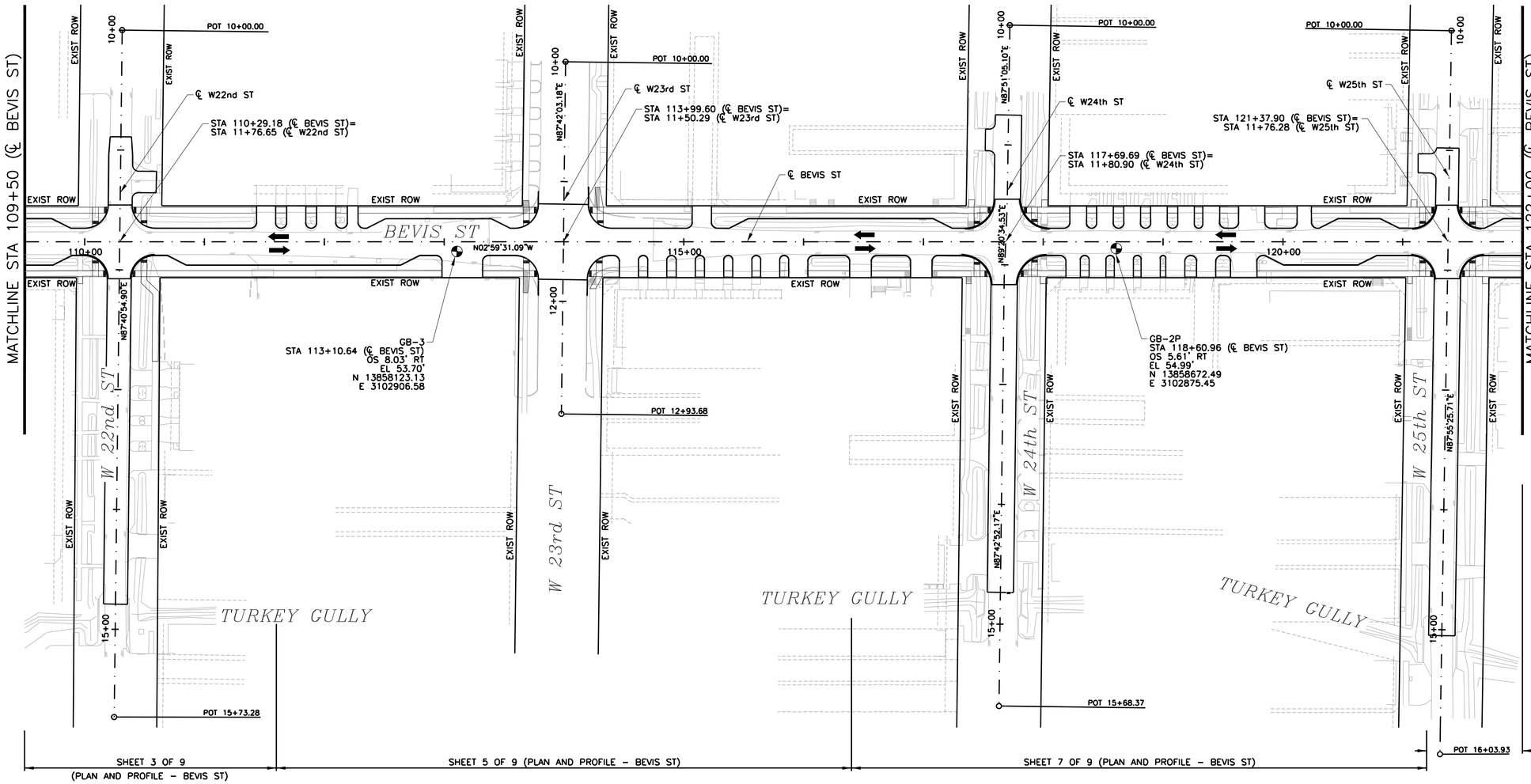
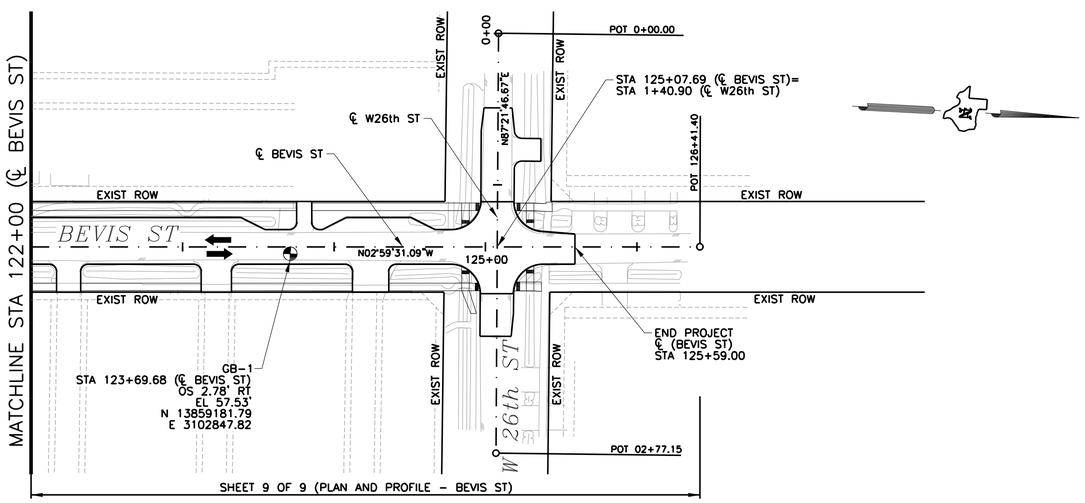


SHEET 3 OF 9 (PLAN AND PROFILE – BEVIS ST)

SHEET 5 OF 9 (PLAN AND PROFILE – BEVIS ST)

SHEET 7 OF 9 (PLAN AND PROFILE – BEVIS ST)

SHEET 9 OF 9 (PLAN AND PROFILE – BEVIS ST)



SHEET 9 OF 9 (PLAN AND PROFILE – BEVIS ST)

LEGEND:

- EXIST TRAFFIC FLOW
- PROP TRAFFIC FLOW
- XX CURVE NUMBER
- SOIL BORING (SEE NOTE 2)

NOTES:

1. SEE SHEET "HORIZONTAL ALIGNMENT DATA" FOR CURVE DATA
2. THE BORING COORDINATES ARE IN TEXAS SOUTH CENTRAL ZONE NO. 4204 STATE PLANE GRID COORDINATES (NAD83).
3. SEE "DRIVEWAY DETAILS" FOR TEMPORARY CONSTRUCTION EASEMENTS AT PROPOSED DRIVEWAYS.

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

PROJECT LAYOUT

STA 109+50 TO END (℄ BEVIS)

SHEET 2 OF 2

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-430100-0020-4	
DRAWING SCALE	
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CITY OF HOUSTON PM	
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SHEET NO. 8 OF 278	

10/24/2025
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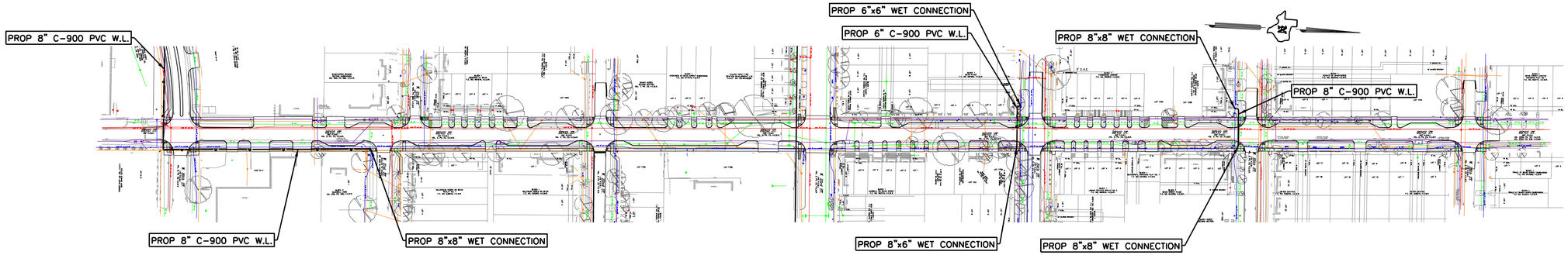

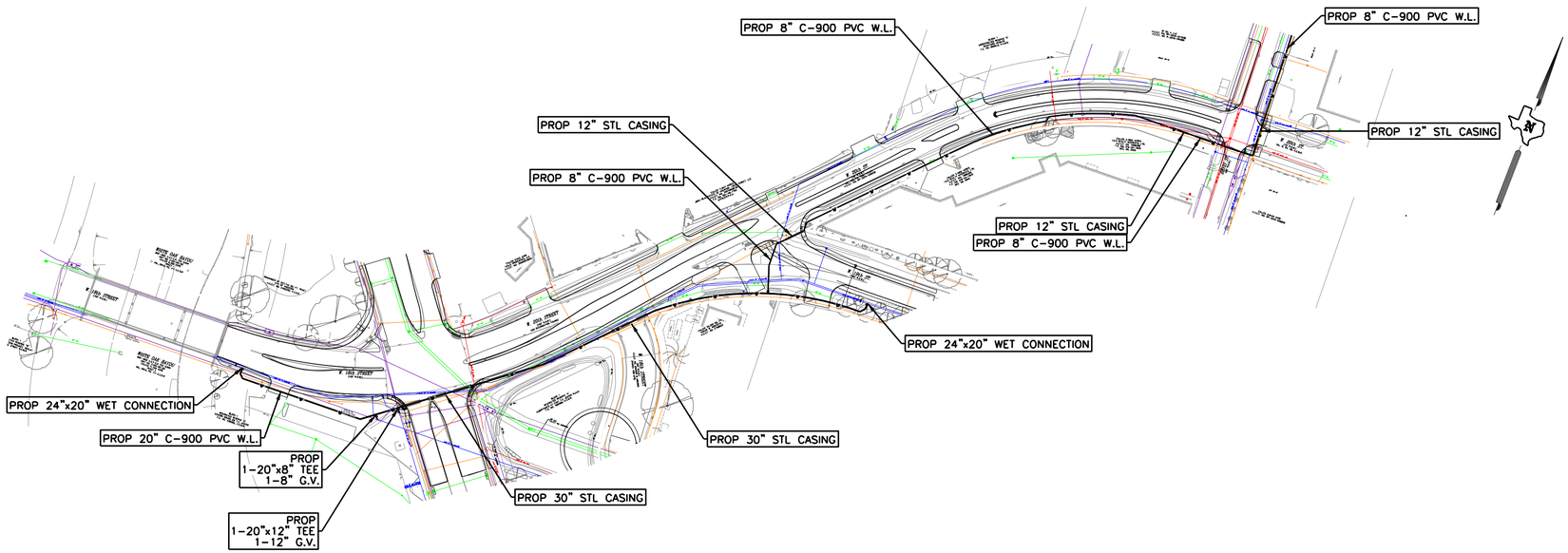

0′ 200′ 400′

SCALE IN FEET

MBCO ENGINEERING + SURVEYING
14811 St. Mary's Lane, Suite 152
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281.760.1656
MBCOEngineering.com
SBE/WBE/DBE/HUB
TBPELS Engineering Firm No. F-16850
Land Surveying Firm No. 10194810

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ENGINEER: STEVE E. STACY
P.E. SERIAL NO.: 86094
DATE: 10/22/2025

SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
PROPOSED OVERALL WATER LINE LAYOUT

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
1"=200′	
CITY OF HOUSTON PM	
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SHEET NO. 9 OF 278	

10/22/2025
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james.kanier

HORIZONTAL ALIGNMENT DATA:

* BEVIS ST

* Alignment name: ℄ BEVIS ST
* Alignment description:
* Alignment style: Alignment\Baseline

	STATION	NORTHING	EASTING
Element: Linear			
POT(POT)	101+00.000 R1	13858715.403	3103365.124
POT(POT)	126+41.518 R1	13861253.320	3103232.467
Tangential Direction:	N02°59'31.09"W		
Tangential Length:	2641.518		

* TC JESTER BLVD

* Alignment name: ℄ TCJ BLVD
* Alignment description:
* Alignment style: Alignment\Baseline

	STATION	NORTHING	EASTING
Element: Curve C-1			
PC(PC)	107+00.000 R1	13857936.046	3102630.048
PI(PI)	107+23.589 R1	13857955.021	3102616.033
CC(CC)		13856732.943	3101001.194
PT(PT)	107+47.176 R1	13857973.663	3102601.580
Radius:	2025.000		
Delta:	01°20'05.28" Left		
Degree of Curvature(Arc):	02°49'45.92"		
Length:	47.176		
Tangent:	23.589		
Chord:	47.175		
Middle Ordinate:	0.137		
External:	0.137		
Tangent Direction:	N36°27'01.06"W		
Radial Direction:	N53°32'58.94"E		
Chord Direction:	N37°07'03.71"W		
Radial Direction:	N52°12'53.65"E		
Tangent Direction:	N37°47'06.35"W		
Element: Linear			
PT(PT)	107+47.176 R1	13857973.663	3102601.580
POT(POT)	114+00.000 R1	13858489.600	3102201.594
Tangential Direction:	N37°47'06.35"W		
Tangential Length:	652.824		

* W18th ST

* Alignment name: ℄ W18th ST
* Alignment description:
* Alignment style: Alignment\Baseline

	STATION	NORTHING	EASTING
Element: Linear			
POT(POT)	15+00.000 R1	13858171.337	3102852.452
PC(PC)	15+87.749 R1	13858168.993	3102764.734
Tangential Direction:	S88°28'09.37"W		
Tangential Length:	87.749		
Element: Curve C-3			
PC(PC)	15+87.749 R1	13858168.993	3102764.734
PI(PI)	16+33.909 R1	13858167.760	3102718.591
CC(CC)		13858293.948	3102761.395
PT(PT)	16+76.185 R1	13858196.812	3102682.721
Radius:	125.000		
Delta:	40°32'08.87" Right		
Degree of Curvature(Arc):	45°50'11.83"		
Length:	88.435		
Tangent:	46.159		
Chord:	86.603		
Middle Ordinate:	7.740		
External:	8.250		
Tangent Direction:	S88°28'09.37"W		
Radial Direction:	N01°31'50.63"W		
Chord Direction:	N71°15'46.20"W		
Radial Direction:	N39°00'18.24"E		
Tangent Direction:	N50°59'41.76"W		

* W18th ST (continued)

Element: Linear			
PT(PT)	16+76.185 R1	13858196.812	3102682.721
POT(POT)	17+26.185 R1	13858228.282	3102643.867
Tangential Direction:	N50°59'41.76"W		
Tangential Length:	50.000		

* W19th ST

* Alignment name: ℄ W19th ST
* Alignment description:
* Alignment style: Alignment\Baseline

	STATION	NORTHING	EASTING
Element: Linear			
POT(POT)	100+00.000 R1	13858587.272	3102796.726
PC(PC)	100+29.251 R1	13858567.306	3102818.103
Tangential Direction:	S46°57'21.82"E		
Tangential Length:	29.251		
Element: Curve C-4			
PC(PC)	100+29.251 R1	13858567.306	3102818.103
PI(PI)	100+51.713 R1	13858551.975	3102834.519
CC(CC)		13858618.465	3102865.882
PCC(PCC)	100+72.722 R1	13858549.057	3102856.791
Radius:	70.000		
Delta:	35°34'53.69" Left		
Degree of Curvature(Arc):	81°51'04.01"		
Length:	43.471		
Tangent:	22.462		
Chord:	42.776		
Middle Ordinate:	3.348		
External:	3.516		
Tangent Direction:	S46°57'21.82"E		
Radial Direction:	S43°02'38.18"W		
Chord Direction:	S64°44'48.66"E		
Radial Direction:	S07°27'44.50"W		
Tangent Direction:	S82°32'15.50"E		
Element: Curve C-5			
PCC(PCC)	100+72.722 R1	13858549.057	3102856.791
PI(PI)	101+16.260 R1	13858543.403	3102899.960
CC(CC)		13859067.628	3102924.715
PT(PT)	101+59.597 R1	13858544.964	3102943.470
Radius:	523.000		
Delta:	09°31'02.48" Left		
Degree of Curvature(Arc):	10°57'18.78"		
Length:	86.875		
Tangent:	43.538		
Chord:	86.775		
Middle Ordinate:	1.803		
External:	1.009		
Tangent Direction:	S82°32'15.50"E		
Radial Direction:	S07°27'44.50"W		
Chord Direction:	S87°17'46.74"E		
Radial Direction:	S02°03'17.99"E		
Tangent Direction:	N87°56'42.01"E		
Element: Linear			
PT(PT)	101+59.597 R1	13858544.964	3102943.470
POT(POT)	104+00.000 R1	13858553.585	3103183.718
Tangential Direction:	N87°56'42.01"E		
Tangential Length:	240.403		

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

HORIZONTAL ALIGNMENT DATA

SHEET 1 OF 3

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NTS	
CITY OF HOUSTON PM	
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SHEET NO. 10 OF 278	

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10/23/2025
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TURKEY-HAIN DATA-01.dgn

HORIZONTAL ALIGNMENT DATA:

* W20th ST

* Alignment name:℄ W20th ST
* Alignment description:
* Alignment style: Alignment\Baseline

	STATION	NORTHING	EASTING
Element: Linear			
POT(POT)	100+00.000 R1	13858134.794	3101848.630
PC(PC)	103+29.486 R1	13858146.716	3102177.900
Tangential Direction:	N87°00'28.91"E		
Tangential Length:	329.486		
Element: Curve C-6			
PC(PC)	103+29.486 R1	13858146.716	3102177.900
PI(PI)	105+44.253 R1	13858154.487	3102392.526
CC(CC)		13858666.375	3102159.085
PT(PT)	107+36.827 R1	13858311.445	3102539.117
Radius:	520.000		
Delta:	44°52'57.04" Left		
Degree of Curvature(Arc):	11°01'06.31"		
Length:	407.341		
Tangent:	214.767		
Chord:	397.005		
Middle Ordinate:	39.379		
External:	42.605		
Tangent Direction:	N87°55'35.22"E		
Radial Direction:	S02°04'24.78"E		
Chord Direction:	N65°29'06.70"E		
Radial Direction:	S46°57'21.82"E		
Tangent Direction:	N43°02'38.18"E		
Element: Linear			
PT(PT)	107+36.827 R1	13858311.445	3102539.117
PC(PC)	113+60.293 R1	13858767.093	3102964.670
Tangential Direction:	N43°02'38.18"E		
Tangential Length:	623.467		
Element: Curve C-7			
PC(PC)	113+60.293 R1	13858767.093	3102964.670
PI(PI)	115+71.027 R1	13858921.103	3103108.508
CC(CC)		13858418.988	3103337.393
PT(PT)	117+59.966 R1	13858928.660	3103319.105
Radius:	510.000		
Delta:	44°54'03.85" Right		
Degree of Curvature(Arc):	11°14'04.08"		
Length:	399.672		
Tangent:	210.733		
Chord:	389.523		
Middle Ordinate:	38.653		
External:	41.823		
Tangent Direction:	N43°02'38.18"E		
Radial Direction:	S46°57'21.82"E		
Chord Direction:	N65°29'40.11"E		
Radial Direction:	S02°03'17.96"E		
Tangent Direction:	N87°56'42.04"E		
Element: Linear			
PT(PT)	17+59.966 R1	13858928.660	3103319.105
POT(POT)	120+00.009 R1	13858937.268	3103558.994
Tangential Direction:	N87°56'42.04"E		
Tangential Length:	240.043		

* W21st ST(EAST)

* Alignment name:℄ W21st ST(RT)
* Alignment description:
* Alignment style: Alignment\Baseline

	STATION	NORTHING	EASTING
Element: Linear			
POT(POT)	0+00.000	13859275.076	3103335.865
POT(POT)	0+94.218	13859279.994	3103429.954
Tangential Direction:	N87°00'28.91"E		
Tangential Length:	94.218		

* W21st ST(WEST)

* Alignment name:℄ W21st ST(LT)
* Alignment description:
* Alignment style: Alignment\Baseline

	STATION	NORTHING	EASTING
Element: Linear			
POT(POT)	0+00.000	13859275.076	3103335.865
POT(POT)	0+94.218	13859279.994	3103429.954
Tangential Direction:	N87°00'28.91"E		
Tangential Length:	94.218		

* W22nd ST

* Alignment name:℄ W22nd ST
* Alignment description:
* Alignment style: Alignment\Baseline

	STATION	NORTHING	EASTING
Element: Linear			
POT(POT)	10+00.000 R1	13859636.074	3103140.015
POT(POT)	15+73.282 R1	13859659.266	3103712.928
Tangential Direction:	N87°40'54.90"E		
Tangential Length:	573.383		

* W23rd ST

* Alignment name:℄ W23rd ST
* Alignment description:
* Alignment style: Alignment\Baseline

	STATION	NORTHING	EASTING
Element: Linear			
POT(POT)	10+00.000 R1	13860007.071	3103147.120
POT(POT)	12+93.861 R1	13860018.860	3103440.745
Tangential Direction:	N87°42'03.18"E		
Tangential Length:	293.861		

* W24th ST

* Alignment name:℄ W24th ST
* Alignment description:
* Alignment style: Alignment\Baseline

	STATION	NORTHING	EASTING
Element: Linear			
POT(POT)	10+00.000 R1	13860375.700	3103097.231
PI(PI)	11+50.370 R1	13860381.338	3103247.495
Tangential Direction:	N87°51'05.10"E		
Tangential Length:	150.370		
Element: Linear			
PI(BL CL)	11+50.370 R1	13860381.338	3103247.495
PI(PI)	12+11.359 R1	13860382.037	3103308.480
Tangential Direction:	N89°20'34.53"E		
Tangential Length:	60.989		
Element: Linear			
PI(BL CL-12)	12+11.359 R1	13860382.037	3103308.480
POT(POT)	15+68.376 R1	13860396.275	3103665.213
Tangential Direction:	N87°42'52.17"E		
Tangential Length:	357.017		

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Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

THESE PLANS ARE PRELIMINARY AND ARE BEING ISSUED FOR REVIEW BY PUBLIC AGENCIES AND OTHER PRELIMINARY PURPOSES. WHEN ISSUED IN FINAL FORM THEY WILL BE SEALED, SIGNED, AND DATED BY THE RESPONSIBLE ENGINEER.

RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

HORIZONTAL ALIGNMENT DATA

SHEET 2 OF 3

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NTS	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 11 OF 278	

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10/23/2025
J:\Sheet\TURKEY-HAIN DATA-02.dgn
TURKEY-HAIN DATA-02.dgn

HORIZONTAL ALIGNMENT DATA:

* W25th ST

* Alignment name:℄ W25th ST
* Alignment description:
* Alignment style: Alignment\Baseline

	STATION	NORTHING	EASTING
Element: Linear			
POT(POT)	10+00.000 R1	13860744.011	3103082.571
POT(POT)	16+03.937 R1	13860765.890	3103686.111
Tangential Direction:	N87°55'25.71"E		
Tangential Length:	603.937		

* W26th ST

* Alignment name:℄ W26th ST
* Alignment description:
* Alignment style: Alignment\Baseline

	STATION	NORTHING	EASTING
Element: Linear			
POT(POT)	0+00.000	13861113.197	3103098.698
POT(POT)	2+77.246	13861125.953	3103375.650
Tangential Direction:	N87°21'46.67"E		
Tangential Length:	277.246		

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RESPONSIBLE ENGINEER:
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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

HORIZONTAL ALIGNMENT DATA

SHEET 3 OF 3

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NTS	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 12 OF 278	

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10/23/2025
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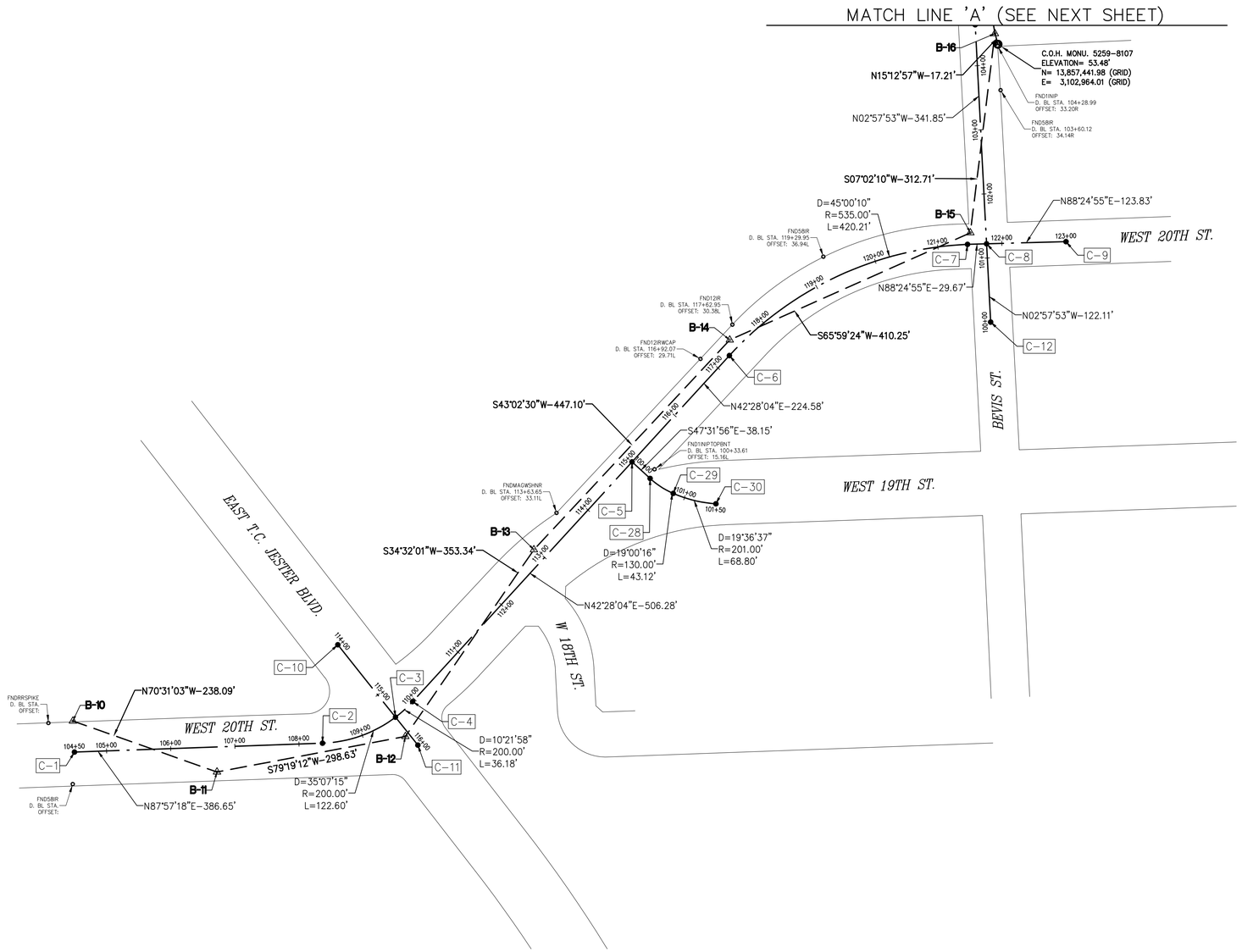

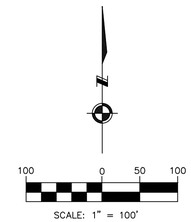

BENCHMARK:

CITY OF HOUSTON MONUMENT 5259-8107, A BRASS DISK IN CONCRETE, LOCATED AT SOUTHEAST CORNER OF THE INTERSECTION OF BEVIS ST AND W 21ST ST.

ELEV. 53.48 FEET NAVD 1988 (GEOID '18)*

* OBSERVED BY GPS SURVEYING AND PROCESSED IN REFERENCE TO THE CORS DATED MARCH 20, 2024.

VERTICAL DATUM ADJUSTMENT:

THE ELEVATION DIFFERENCE IN BETWEEN THE FLOODPLAIN REFERENCE MARK'S (RM 050050) PUBLISHED DATUM NAVD 1988, 2001 ADJUSTMENT AND DATUM NAVD 1988, (GEOID '18) IS 0.02'.

NAVD 1988, 2001 ADJ. ELEVATION
= NAVD 1988 (GEOID '18) ELEVATION + 0.02 FT

NOTE:

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

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

LEGEND:

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

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KUO & associates, LLC.
Consulting Engineers & Surveyors
10300 Westoffice Dr., Suite 800, Houston, Texas 77042
Tel: 713-975-8769, Fax: 713-975-0920, www.kuoassociates.com
TBPELS Engineering Firm Reg. No. F-4578
TBPELS Surveying Firm Reg. No. 10075600

STATE OF TEXAS
REGISTERED
KUTUBUL A. M. MAINUDDIN
6404
PROFESSIONAL
LAND SURVEYOR
05/16/2024

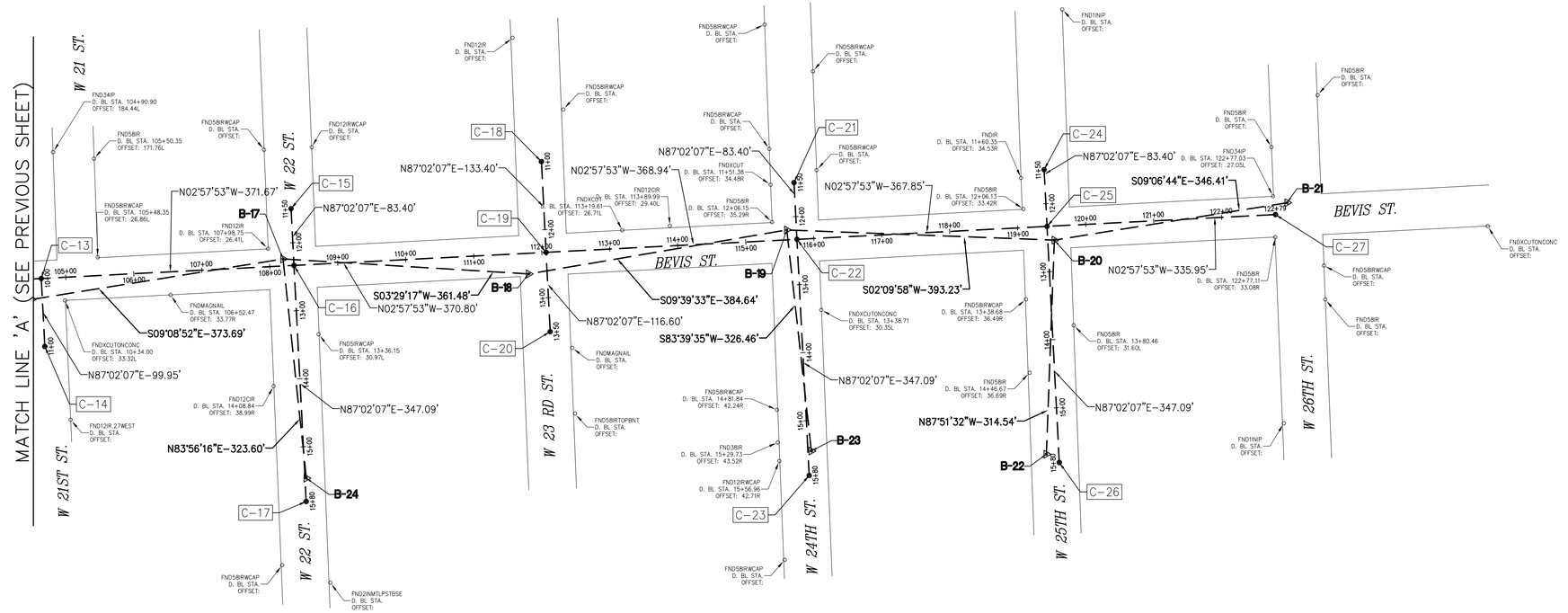
SURVEYED BY: KUO & ASSOC.
FB NO. P-6325

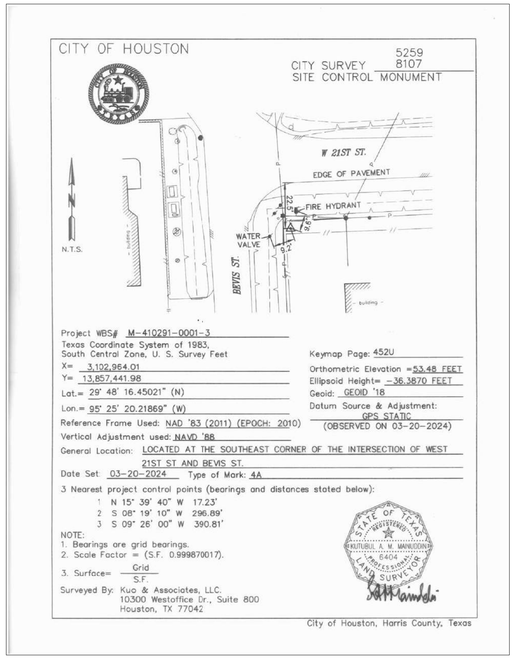
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

SURVEY CONTROL MAP
(SHEET 1 OF 3)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=100'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 13 OF 278	





SURVEY BASELINE POINTS DATA (TEMPORARY BENCHMARK)

POINT No.	NORTHING (SURFACE)	EASTING (SURFACE)	NORTHING (GRID)	EASTING (GRID)	ELEVATION	D. BL STA.	OFFSET	DESCRIPTION
B-10	13,858,188.98	3,101,926.30	13,856,387.65	3,101,523.11	55.46'	–	–	SET 5/8" I.R. W/CAP
B-11	13,858,109.57	3,102,150.76	13,856,308.25	3,101,747.54	54.72'	106+70.73	38.98R	SET 5/8" I.R. W/CAP
B-12	13,858,164.91	3,102,444.22	13,856,363.59	3,102,040.96	56.36'	109+54.18	33.28R	FND X CUT ON CONC.
B-13	13,858,455.99	3,102,644.52	13,856,654.62	3,102,241.23	55.72'	112+97.61	20.43L	SET 1/2" I.R. W/CAP
B-14	13,858,782.76	3,102,949.68	13,856,981.35	3,102,546.35	54.20'	117+44.15	16.26L	SET 1/2" I.R. W/CAP
B-15	13,858,949.69	3,103,324.43	13,857,148.26	3,102,921.05	53.88'	121+51.37	17.89L	SET 5/8" I.R. W/CAP
B-16	13,859,260.04	3,103,362.74	13,857,458.57	3,102,959.36	53.74'	10+29.94	15.42R	SET 1/2" I.R. W/CAP
B-17	13,859,628.97	3,103,303.33	13,857,827.46	3,102,899.95	54.05'	108+20.05	10.31L	SET MAG NAIL W/SHINER
B-18	13,859,989.78	3,103,325.32	13,858,188.22	3,102,921.94	52.95'	111+79.24	30.31R	SET X CUT ON CONC.
B-19	13,860,368.97	3,103,260.78	13,858,567.36	3,102,857.41	54.95'	115+61.26	14.52L	FND MAG NAIL
B-20	13,860,761.92	3,103,275.65	13,858,960.25	3,102,872.27	55.57'	119+52.91	20.64R	FND MAG NAIL
B-21	13,861,103.96	3,103,220.79	13,859,302.25	3,102,817.42	58.28'	–	–	FND MAG NAIL
B-22	13,860,750.17	3,103,589.97	13,858,948.50	3,103,186.55	57.64'	15+67.34	18.30R	FND MAG NAIL
B-23	13,860,405.02	3,103,585.25	13,858,603.40	3,103,181.84	56.04'	15+44.77	5.11L	SET MAG NAIL W/SHINER
B-24	13,859,663.15	3,103,625.12	13,857,861.63	3,103,221.70	54.40'	15+46.22	1.91L	SET MAG NAIL W/SHINER

DESIGN BASELINE POINTS DATA

POINT No.	D. BL STA.	NORTHING (SURFACE)	EASTING (SURFACE)	NORTHING (GRID)	EASTING (GRID)
C-1	104+50.00	13,858,140.65	3,101,928.78	13,856,339.33	3,101,525.58
C-2	108+36.65	13,858,154.45	3,102,315.18	13,856,353.13	3,101,911.93
C-3	109+59.24	13,858,194.95	3,102,428.87	13,856,393.62	3,102,025.60
C-4	109+95.43	13,858,219.29	3,102,455.57	13,856,417.95	3,102,052.31
C-5	115+01.70	13,858,592.75	3,102,797.40	13,856,791.37	3,102,394.09
C-6	117+26.29	13,858,758.41	3,102,949.03	13,856,957.01	3,102,545.70
C-7	121+46.50	13,858,931.67	3,103,320.07	13,857,130.25	3,102,916.69
C-8	121+76.17	13,858,932.49	3,103,349.73	13,857,131.07	3,102,946.34
C-9	123+00.00	13,858,935.92	3,103,473.51	13,857,134.49	3,103,070.11
C-10	114+00.00	13,858,307.84	3,102,339.07	13,856,506.50	3,101,935.82
C-11	116+00.00	13,858,151.43	3,102,463.72	13,856,350.11	3,102,060.45
C-12	100+00.00	13,858,810.55	3,103,356.04	13,857,009.14	3,102,952.66
C-13	104+63.95	13,859,273.89	3,103,332.04	13,857,472.42	3,102,928.66
C-14	10+99.95	13,859,279.06	3,103,431.86	13,857,477.58	3,103,028.47
C-15	11+50.00	13,859,640.74	3,103,229.53	13,857,839.23	3,102,826.17
C-16	108+35.62	13,859,645.06	3,103,312.82	13,857,843.54	3,102,909.44
C-17	15+80.49	13,859,663.01	3,103,659.45	13,857,861.49	3,103,256.03
C-18	11+00.00	13,860,008.47	3,103,160.42	13,858,206.90	3,102,757.06
C-19	112+06.43	13,860,015.36	3,103,293.64	13,858,213.80	3,102,890.27
C-20	13+50.00	13,860,021.40	3,103,410.09	13,858,219.83	3,103,006.70
C-21	11+50.00	13,860,379.50	3,103,191.27	13,858,577.88	3,102,787.91
C-22	115+75.37	13,860,383.81	3,103,274.56	13,858,582.20	3,102,871.19
C-23	15+80.49	13,860,401.76	3,103,621.19	13,858,600.15	3,103,217.77
C-24	11+50.00	13,860,746.86	3,103,172.25	13,858,945.19	3,102,768.89
C-25	119+43.22	13,860,751.17	3,103,255.53	13,858,949.51	3,102,852.16
C-26	15+80.49	13,860,769.12	3,103,602.16	13,858,967.46	3,103,198.74
C-27	122+79.17	13,861,086.67	3,103,238.16	13,859,284.96	3,102,834.79
C-28	100+38.15	13,858,566.99	3,102,825.54	13,856,765.61	3,102,422.23
C-29	100+81.27	13,858,543.63	3,102,861.55	13,856,742.26	3,102,458.24
C-30	101+50.07	13,858,527.47	3,102,928.08	13,856,726.09	3,102,524.75

100 0 50 100
SCALE: 1" = 100'

BENCHMARK:

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LEGEND:

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

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TBPE FIRM REGISTRATION NO. F-6825

KUO & associates, LLC.
Consulting Engineers & Surveyors
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Tel: 713-975-8769, Fax: 713-975-0920, www.kuoassociates.com
TBPELS Engineering Firm Reg. No. F-4578
TBPELS Surveying Firm Reg. No. 10075600

STATE OF TEXAS REGISTERED KUTUBUL A. M. MAINUDDIN 6404 PROFESSIONAL LAND SURVEYOR
05/16/2024

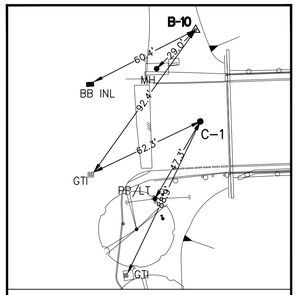
SURVEYED BY: KUO & ASSOC.
FB NO. P-6325

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

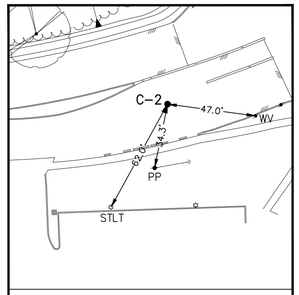
TURKEY GULLY

SURVEY CONTROL MAP
(SHEET 2 OF 3)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=100'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 14 OF 278	



C–1 & T.B.M. B–10



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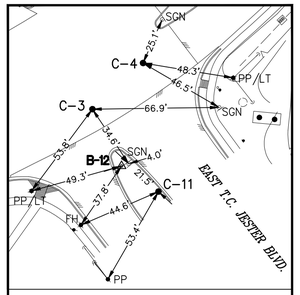

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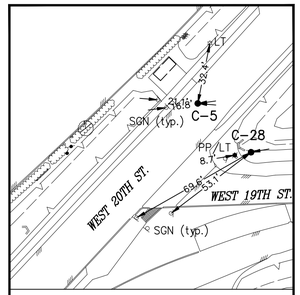

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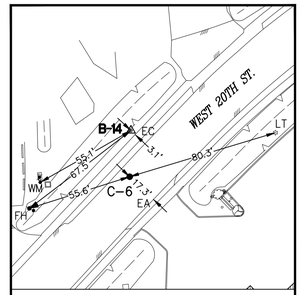

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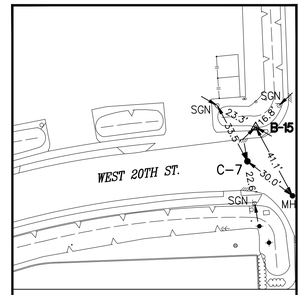

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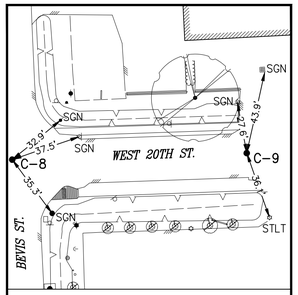

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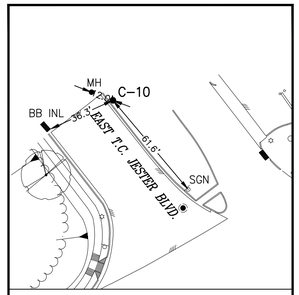

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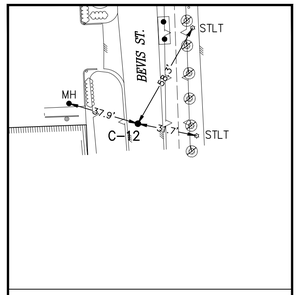

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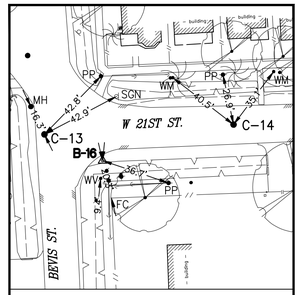

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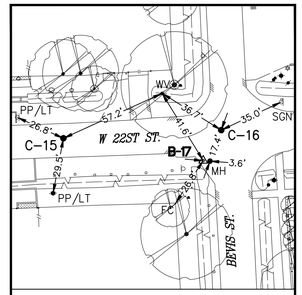

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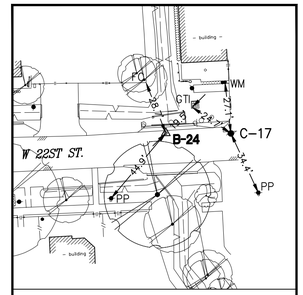

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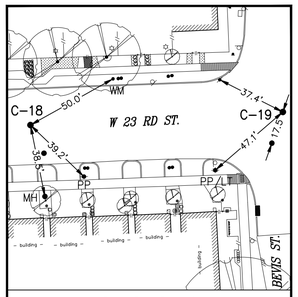

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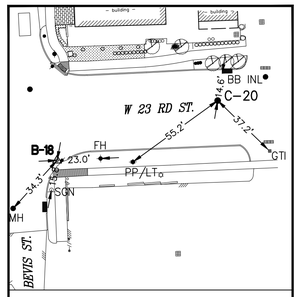
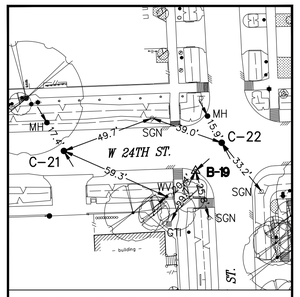
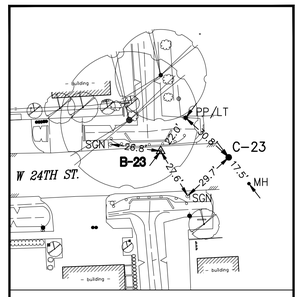


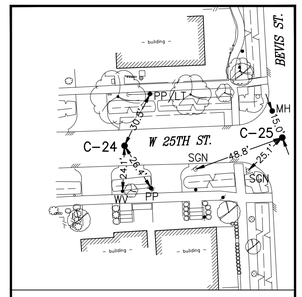
C–20 & T.B.M. B–18



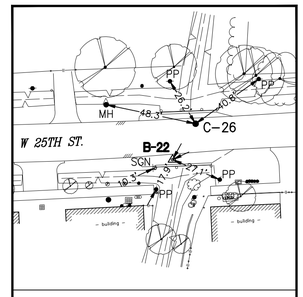
C–21, C–22 & T.B.M. B–19



C–23 & T.B.M. B–23



C–24, C–25



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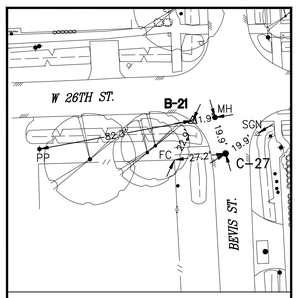

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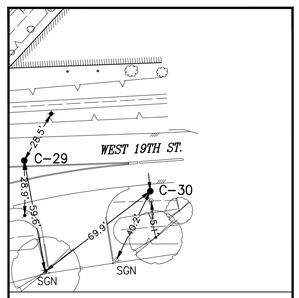

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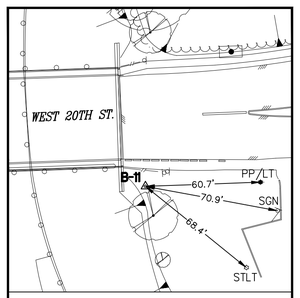
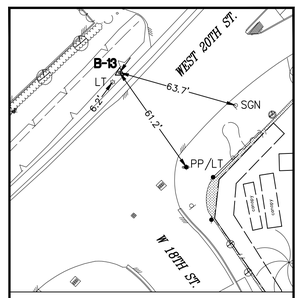
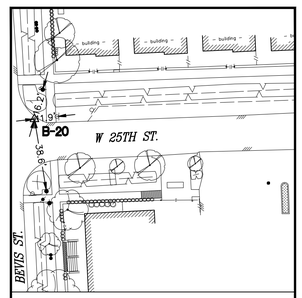


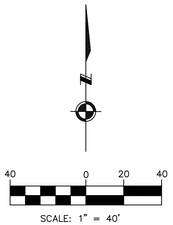
T.B.M. B–11



T.B.M. B–13



T.B.M. B–20



EXIST. TOPOGRAPHIC LEGEND

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

ABBREVIATIONS

FH – FIRE HYDRANT
FC – FENCE CORNER
GTI – GRATE INLET
LT – LIGHT POLE
MB – MAIL BOX
MH – MANHOLE
PP – POWER POLE
PP/LT – POWER POLE W/LIGHT
STLT – STREET LIGHT
WM – WATER METER

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TBPE FIRM REGISTRATION NO. F-6825

KUO & associates, LLC.
Consulting Engineers & Surveyors
10300 Westoffice Dr., Suite 800, Houston, Texas 77042
Tel: 713-975-8769, Fax: 713-975-0920, www.kuoassociates.com
TBPELS Engineering Firm Reg. No. F-4578
TBPELS Surveying Firm Reg. No. 10075600

STATE OF TEXAS
REGISTERED
KUTUBUL A. M. MAINUDDIN
6404
PROFESSIONAL
LAND SURVEYOR
05/16/2024

SURVEYED BY: KUO & ASSOC.
FB NO. P–6325

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

SURVEY CONTROL MAP
(SHEET 3 OF 3)

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 15 OF 278	

LOG OF BORING NO. GB-1

PROJECT : Turkey Gully Storm Water Drainage Improvements
WBS No. M-430100-0020-3
Houston, Texas
PROJECT NO. : 1140296501

LOCATION : N 13859181.79, E 3102847.82
Bevis St.; See Plan of Borings (Figure 2.1)
COMPLETION DEPTH : 30.0 FT.

SURFACE ELEVATION : 57.53 FT.
DATE : 04-03-25

SAMPLER : Shelby Tube/Split Spoon
DRY AUGER : 0.0 TO 20.0 FT.
WET ROTARY : 20.0 TO 30.0 FT.

ELEVATION, FEET	DEPTH, FEET	DESCRIPTION OF MATERIAL	STANDARD PENETRATION TEST, BLOWS PER FOOT	PERCENT PASSING NO. 200 SIEVE	DRY UNIT WEIGHT, PCF	NATURAL MOISTURE CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX, %
57.5	0	4" Asphalt							
57.2		8.5" Shell, Sand and Gravel Mix	18	24.8		10.2			
56.5		Medium dense brown SILTY SAND (SM)	10			14.7			
53.5	5	Stiff to very stiff brown and gray SANDY LEAN CLAY (CL) w/silt seams		59.9	115	15.7	32	16	16
						14.1			
	10					13.9			
45.5		Very stiff to hard gray and yellowish brown LEAN CLAY WITH SAND (CL) w/ferrous stains		79.4	122	13.8	37	17	20
	15	-w/ferrous nodules 16'-20'				14.2			
						21.9			
37.5	20	Firm to stiff reddish brown and gray LEAN CLAY WITH SILT (CL)		95.1	110	23.6	33	16	17
						24.0			
33.5		Medium dense brown SANDY SILT (ML)	18	67.0		25.4			
	25		18			20.5			
29.5		Stiff to very stiff reddish brown and gray LEAN CLAY WITH SILT (CL)				25.5			
27.5	30					20.7			
	35								

UNDRAINED SHEAR STRENGTH, TSF
○ HAND PENETROMETER
● UNCONFINED COMPRESSION
■ UNCONSOLIDATED-UNDRAINED TRIAXIAL COMPRESSION
△ TORVANE
0.5 1.0 1.5 2.0 2.5

PRELIMINARY

DEPTH TO WATER IN BORING :
▽: FREE WATER 1st ENCOUNTERED AT 20.0 FT. DURING DRILLING; AFTER 15.0 MIN. AT 9.4 FT.
HOLE OPEN TO 30.0 FT. AT END OF DRILLING.

Geotest Engineering, Inc.

FIGURE A-1

LOG OF BORING NO. GB-2P

PROJECT : Turkey Gully Storm Water Drainage Improvements
WBS No. M-430100-0020-3
Houston, Texas
PROJECT NO. : 1140296501

LOCATION : N 13858672.49, E 3102875.45
Bevis St.; See Plan of Borings (Figure 2.2)
COMPLETION DEPTH : 30.0 FT.

SURFACE ELEVATION : 54.99 FT.
DATE : 04-03-25

SAMPLER : Shelby Tube/Split Spoon
DRY AUGER : 0.0 TO 22.0 FT.
WET ROTARY : 22.0 TO 30.0 FT.

ELEVATION, FEET	DEPTH, FEET	DESCRIPTION OF MATERIAL	STANDARD PENETRATION TEST, BLOWS PER FOOT	PERCENT PASSING NO. 200 SIEVE	DRY UNIT WEIGHT, PCF	NATURAL MOISTURE CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX, %
55.0	0	4" Asphalt							
54.7		7.5" Shell, Sand and Gravel Mix		46.5		12.2			
54.0		Brown SILTY SAND (SM)							
53.0		Firm to very stiff brown SANDY LEAN CLAY (CL) w/ferrous stains		59.0	110	19.1	34	16	18
	5	-w/sand pockets 4'-10'				16.8			
						15.1			
45.0	10					17.1			
		Stiff to very stiff gray and brown LEAN CLAY WITH SAND (CL)		77.7	114	17.4	41	18	23
	15					21.3			
						19.9			
37.0		Firm to very stiff gray and reddish brown LEAN CLAY (CL)		86.8	108	20.2			
	20					20.4	41	18	23
						21.1			
31.0		Dense to very dense reddish brown and gray SILT WITH SAND (ML)	37	83.3		22.8			
	25		37			19.8			
25.0		NOTE : See Piezometer GB-2P for water level measurements.	79			21.2			
	30					23.7			
	35								

UNDRAINED SHEAR STRENGTH, TSF
○ HAND PENETROMETER
● UNCONFINED COMPRESSION
■ UNCONSOLIDATED-UNDRAINED TRIAXIAL COMPRESSION
△ TORVANE
0.5 1.0 1.5 2.0 2.5

PRELIMINARY

DEPTH TO WATER IN BORING :
▽: FREE WATER 1st ENCOUNTERED AT 22.0 FT. DURING DRILLING; AFTER 15.0 MIN. AT 6.2 FT.
▽: WATER DEPTH AT 5.6 FT., HOLE OPEN TO 30.0 FT. ON 05-06-25.

Geotest Engineering, Inc.

FIGURE A-2

IDCUS
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15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591

TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

BORING LOG SHEET

SHEET 1 OF 5

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NTS	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 16 OF 278	

10/23/2025
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TURKEY-BLS-01.dgn
Printing

LOG OF BORING NO. GB-3

PROJECT : Turkey Gully Storm Water Drainage Improvements
WBS No. M-430100-0020-3
Houston, Texas
LOCATION : N 13858123.13, E 3102906.58
Bevis St.; See Plan of Borings (Figure 2.3)
SURFACE ELEVATION : 53.70 FT.

PROJECT NO. : 1140296501
COMPLETION DEPTH : 30.0 FT.
DATE : 04-03-25

SAMPLER : Shelby Tube/Split Spoon
DRY AUGER : 0.0 TO 17.0 FT.
WET ROTARY : 17.0 TO 30.0 FT.

UNDRAINED SHEAR STRENGTH, TSF
○ HAND PENETROMETER
● UNCONFINED COMPRESSION
■ UNCONSOLIDATED-UNDRAINED TRIAXIAL COMPRESSION
△ TORVANE
0.5 1.0 1.5 2.0 2.5

ELEVATION, FEET	DEPTH, FEET	DESCRIPTION OF MATERIAL	STANDARD PENETRATION TEST, BLOWS PER FOOT	PERCENT PASSING NO. 200 SIEVE	DRY UNIT WEIGHT, PCF	NATURAL MOISTURE CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX, %
53.7	0	4.5" Asphalt							
53.3		9.5" Cement Stabilized Sand over 2" Compacted Clay				16.0			
52.4		Firm to very stiff brown and gray FAT CLAY (CH) -w/calcareous nodules 16"-6'		85.5	116	16.8	52	22	30
	5	-w/ferrous stains 6'-10'				14.6			
						18.1			
	10			87.5	109	20.8	57	24	33
41.7		Gray and yellowish brown CLAYEY SAND (SC)				18.8			
						20.1			
	15			40.4		18.1	21	13	8
37.7		Stiff to very stiff yellowish brown and gray SANDY LEAN CLAY (CL)		69.7		16.1	31	16	15
						16.8			
33.7	20	Very stiff to hard gray and brown FAT CLAY (CH) w/sand seams and calcareous nodules		93.9	108	21.0	51	22	29
						18.1			
29.7	25	Medium dense to dense brown and gray SANDY SILT (ML)	43			20.8			
			33	69.2		19.7			
23.7	30		25			23.7			
	35								

DEPTH TO WATER IN BORING :
▽: FREE WATER 1st ENCOUNTERED AT 17.0 FT. DURING DRILLING; AFTER 15.0 MIN. AT 6.9 FT.
HOLE OPEN TO 30.0 FT. AT END OF DRILLING.

Geotest Engineering, Inc.

FIGURE A-3

PRELIMINARY

LOG OF BORING NO. GB-4

PROJECT : Turkey Gully Storm Water Drainage Improvements
WBS No. M-430100-0020-3
Houston, Texas
LOCATION : N 13857673.85, E 3102928.64
Bevis St.; See Plan of Borings (Figure 2.4)
SURFACE ELEVATION : 54.12 FT.

PROJECT NO. : 1140296501
COMPLETION DEPTH : 30.0 FT.
DATE : 04-03-25

SAMPLER : Shelby Tube/Split Spoon
DRY AUGER : 0.0 TO 18.0 FT.
WET ROTARY : 18.0 TO 30.0 FT.

UNDRAINED SHEAR STRENGTH, TSF
○ HAND PENETROMETER
● UNCONFINED COMPRESSION
■ UNCONSOLIDATED-UNDRAINED TRIAXIAL COMPRESSION
△ TORVANE
0.5 1.0 1.5 2.0 2.5

ELEVATION, FEET	DEPTH, FEET	DESCRIPTION OF MATERIAL	STANDARD PENETRATION TEST, BLOWS PER FOOT	PERCENT PASSING NO. 200 SIEVE	DRY UNIT WEIGHT, PCF	NATURAL MOISTURE CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX, %
54.1	0	3" Asphalt							
53.9		11" Shell, Sand and Gravel Mix				15.4			
53.0		Stiff to very stiff brown and gray LEAN CLAY WITH SAND (CL) w/calcareous nodules		82.4	111	17.8	41	19	22
	5					20.4			
						20.4			
	10					19.4			
44.1		Stiff to very stiff yellowish brown and gray FAT CLAY (CH) -w/ferrous nodules 10'-12'		91.7	110	21.7	56	23	33
						20.8			
40.1	15	Firm to stiff gray and brown SANDY LEAN CLAY (CL) w/silt		55.7	111	20.0	28	16	12
						19.4			
34.1	20	Medium dense to dense brown SILTY SAND (SM)	18			19.4			
			21	24.8		20.8			
	25		26			21.2			
26.1		Medium dense reddish brown CLAYEY SAND (SC) w/silt seams	34			20.3			
24.1	30		27			34.5			
	35								

DEPTH TO WATER IN BORING :
▽: FREE WATER 1st ENCOUNTERED AT 18.0 FT. DURING DRILLING; AFTER 20.0 MIN. AT 6.3 FT.
HOLE OPEN TO 30.0 FT. AT END OF DRILLING.

Geotest Engineering, Inc.

FIGURE A-4

PRELIMINARY

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SURVEYED BY: KUO
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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

BORING LOG SHEET

SHEET 2 OF 5

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
NTS	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 17 OF 278	

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10/23/2025
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TURKEY-BLS-02.dgn

LOG OF BORING NO. GB-5

PROJECT : Turkey Gully Storm Water Drainage Improvements
WBS No. M-430100-0020-3
Houston, Texas
PROJECT NO. : 1140296501

LOCATION : N 13857181.11, E 3102953.62
Bevis St.; See Plan of Borings (Figure 2.5)
COMPLETION DEPTH : 30.0 FT.

SURFACE ELEVATION : 54.21 FT.
DATE : 04-03-25

SAMPLER : Shelby Tube/Split Spoon
DRY AUGER : 0.0 TO 17.0 FT.
WET ROTARY : 17.0 TO 30.0 FT.

ELEVATION, FEET	DEPTH, FEET	DESCRIPTION OF MATERIAL	STANDARD PENETRATION TEST, BLOWS PER FOOT	PERCENT PASSING NO. 200 SIEVE	DRY UNIT WEIGHT, PCF	NATURAL MOISTURE CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX, %
54.2	0	3" Asphalt							
54.0		6" Shell and Gravel Mix							
53.5		Stiff to very stiff gray and brown LEAN CLAY WITH SAND (CL)				15.4			
				74.6	116	15.4	31	17	14
	5	-w/calcareous pockets 1'-6'				20.3			
		-w/silt seams 6'-8'				18.8			
46.2		Firm to very stiff yellowish brown and gray SANDY LEAN CLAY (CL) w/silt seams				19.5			
	10			63.6	114	19.7	25	15	10
						19.7			
	15					18.0			
38.2		Medium dense brown SILTY SAND (SM)	18	37.6		18.1			
	20		20			22.0			
			27			16.0			
30.2	25	Medium dense reddish brown and gray SANDY SILT (ML)	19			19.2			
			18	59.1		24.3			
24.2	30		15			25.4			
			29			25.5			
	35								

UNDRAINED SHEAR STRENGTH, TSF
○ HAND PENETROMETER
● UNCONFINED COMPRESSION
■ UNCONSOLIDATED-UNDRAINED TRIAXIAL COMPRESSION
△ TORVANE
0.5 1.0 1.5 2.0 2.5

DEPTH TO WATER IN BORING :
▽: FREE WATER 1st ENCOUNTERED AT 17.0 FT. DURING DRILLING; AFTER 15.0 MIN. AT 7.6 FT.
HOLE OPEN TO 30.0 FT. AT END OF DRILLING.

Geotest Engineering, Inc.

FIGURE A-5

PRELIMINARY

LOG OF BORING NO. GB-6

PROJECT : Turkey Gully Storm Water Drainage Improvements
WBS No. M-430100-0020-3
Houston, Texas
PROJECT NO. : 1140296501

LOCATION : N 13856920.56, E 3102509.50
W. 20th St.; See Plan of Borings (Figure 2.6)
COMPLETION DEPTH : 30.0 FT.

SURFACE ELEVATION : 54.94 FT.
DATE : 04-03-25

SAMPLER : Shelby Tube/Split Spoon
DRY AUGER : 0.0 TO 22.0 FT.
WET ROTARY : 22.0 TO 30.0 FT.

ELEVATION, FEET	DEPTH, FEET	DESCRIPTION OF MATERIAL	STANDARD PENETRATION TEST, BLOWS PER FOOT	PERCENT PASSING NO. 200 SIEVE	DRY UNIT WEIGHT, PCF	NATURAL MOISTURE CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX, %
54.8	0	2" Asphalt							
54.2		6.5" Concrete				18.3			
		Stiff brown and gray LEAN CLAY WITH SAND (CL)							
50.9		Stiff to very stiff yellowish brown and gray FAT CLAY WITH SAND (CH)		70.9	110	19.2	43	20	23
	5					16.9			
						16.5			
	10	-w/silt seams 10'-12'		82.7	116	16.5	51	22	29
42.9		Stiff to very stiff brown LEAN CLAY WITH SAND (CL) w/silt seams				17.2			
						18.4			
	15			76.5	107	20.1	40	18	22
						19.1			
						17.9			
34.9	20	Stiff to very stiff reddish brown and gray SANDY LEAN CLAY (CL) w/silt seams		65.9	117	16.0	30	16	14
						31.0			
	25					29.7			
28.9		Very dense reddish brown SILT WITH SAND (ML)		60	73.8	22.2			
24.9	30			58		22.0			
	35								

UNDRAINED SHEAR STRENGTH, TSF
○ HAND PENETROMETER
● UNCONFINED COMPRESSION
■ UNCONSOLIDATED-UNDRAINED TRIAXIAL COMPRESSION
△ TORVANE
0.5 1.0 1.5 2.0 2.5

DEPTH TO WATER IN BORING :
▽: FREE WATER 1st ENCOUNTERED AT 22.0 FT. DURING DRILLING; AFTER 20.0 MIN. AT 10.3 FT.
HOLE OPEN TO 30.0 FT. AT END OF DRILLING.

Geotest Engineering, Inc.

FIGURE A-6

PRELIMINARY

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SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

BORING LOG SHEET

SHEET 3 OF 5

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NTS	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 18 OF 278	

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TURKEY-BLS-03.dgn

LOG OF BORING NO. GB-7

PROJECT : Turkey Gully Storm Water Drainage Improvements
WBS No. M-430100-0020-3
Houston, Texas
PROJECT NO. : 1140296501

LOCATION : N 13856540.33, E 3102138.29
W. 20th St.; See Plan of Borings (Figure 2.7)
COMPLETION DEPTH : 30.0 FT.

SURFACE ELEVATION : 55.16 FT.
DATE : 04-03-25

SAMPLER : Shelby Tube/Split Spoon
DRY AUGER : 0.0 TO 20.0 FT.
WET ROTARY : 20.0 TO 30.0 FT.

UNDRAINED SHEAR STRENGTH, TSF
○ HAND PENETROMETER
● UNCONFINED COMPRESSION
■ UNCONSOLIDATED-UNDRAINED TRIAXIAL COMPRESSION
△ TORVANE

ELEVATION, FEET	DEPTH, FEET	DESCRIPTION OF MATERIAL	STANDARD PENETRATION TEST, BLOWS PER FOOT	PERCENT PASSING NO. 200 SIEVE	DRY UNIT WEIGHT, PCF	NATURAL MOISTURE CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX, %
55.2	0	13.75" Asphalt							
54.0		5" Concrete							
53.6		Firm to very stiff gray and brown SANDY SILTY CLAY (CL-ML)		63.8		14.5			
	5					17.0	21	14	7
		-w/vertical sand seams 4'-6'				16.4			
47.2		Gray and brown CLAYEY SAND (SC)				13.6			
	10					12.0			
43.2		Stiff to hard brown and gray LEAN CLAY WITH SAND (CL) w/silt seams		48.9		14.1	23	15	8
	15					18.8			
						20.3			
37.2		Very stiff to hard reddish brown and gray FAT CLAY (CH) w/ferrous stains		78.6		23.4	26	15	11
	20					33.6			
		-w/calcareous nodules 22'-24'				27.8			
				99.1	102	27.7	51	21	30
30.2	25	Dense to very dense reddish brown SILT WITH SAND (ML)	67			21.0			
			40	77.8		20.7			
25.2	30		54			22.1			
	35								

PRELIMINARY

DEPTH TO WATER IN BORING :
▼: FREE WATER 1st ENCOUNTERED AT 20.0 FT. DURING DRILLING; AFTER 15.0 MIN. AT 13.1 FT.
HOLE OPEN TO 30.0 FT. AT END OF DRILLING.

Geotest Engineering, Inc.

FIGURE A-7

LOG OF BORING NO. GB-8P

PROJECT : Turkey Gully Storm Water Drainage Improvements
WBS No. M-430100-0020-3
Houston, Texas
PROJECT NO. : 1140296501

LOCATION : N 13856362.71, E 3101749.45
W. 20th St.; See Plan of Borings (Figure 2.8)
COMPLETION DEPTH : 30.0 FT.

SURFACE ELEVATION : 55.45 FT.
DATE : 04-03-25

SAMPLER : Shelby Tube/Split Spoon
DRY AUGER : 0.0 TO 15.7 FT.
WET ROTARY : 15.7 TO 30.0 FT.

UNDRAINED SHEAR STRENGTH, TSF
○ HAND PENETROMETER
● UNCONFINED COMPRESSION
■ UNCONSOLIDATED-UNDRAINED TRIAXIAL COMPRESSION
△ TORVANE

ELEVATION, FEET	DEPTH, FEET	DESCRIPTION OF MATERIAL	STANDARD PENETRATION TEST, BLOWS PER FOOT	PERCENT PASSING NO. 200 SIEVE	DRY UNIT WEIGHT, PCF	NATURAL MOISTURE CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX, %
55.5	0	2.25" Asphalt							
55.3		7.75" Concrete							
54.6		FILL: soft to very stiff reddish brown and gray lean clay with sand				17.2			
	5					16.5			
		-w/sand pockets 6'-8'		73.4	107	20.1	27	16	11
						19.4			
	10					14.5			
				72.1	103	23.7	43	20	23
	15	-very soft to stiff 16'-18'				18.2			
						20.3			
37.5		Stiff to very stiff yellowish brown and gray FAT CLAY (CH) w/sand pockets				20.4			
	20			86.9	105	20.5	51	21	30
35.5		Loose gray SILTY SAND (SM)	7	42.0		18.8			
31.5		Reddish brown SILT (ML) -w/clay seams 24'-26'	8			19.8			
	25					26.7			
		-medium dense 26.5'-30'	24	92.6		27.0			
25.5	30		29			26.0			
	35								

NOTE :
See Piezometer GB-8P for water level measurements.

PRELIMINARY

DEPTH TO WATER IN BORING :
NO GROUNDWATER ENCOUNTERED DURING DRILLING.
▼: WATER DEPTH AT 15.1 FT., HOLE OPEN TO 30.0 FT. ON 05-06-25.

Geotest Engineering, Inc.

FIGURE A-8

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

THESE PLANS ARE PRELIMINARY AND ARE BEING ISSUED FOR REVIEW BY PUBLIC AGENCIES AND OTHER PRELIMINARY PURPOSES. WHEN ISSUED IN FINAL FORM THEY WILL BE SEALED, SIGNED, AND DATED BY THE RESPONSIBLE ENGINEER.

RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

BORING LOG SHEET

SHEET 4 OF 5

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NTS	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 19 OF 278	

10/23/2025
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TURKEY-BLS-04.dgn
Printing

LOG OF BORING NO. GB-9

PROJECT : Turkey Gully Storm Water Drainage Improvements
WBS No. M-430100-0020-3
Houston, Texas
PROJECT NO. : 1140296501

LOCATION : N 13856361.53, E 3102394.77
W. 18th St.; See Plan of Borings (Figure 2.9)
COMPLETION DEPTH : 10.0 FT.

SURFACE ELEVATION : 53.50 FT.
DATE : 04-07-25

SAMPLER : Shelby Tube/Split Spoon
DRY AUGER : 0.0 TO 10.0 FT.
WET ROTARY : -- TO -- FT.

ELEVATION, FEET	DEPTH, FEET	DESCRIPTION OF MATERIAL	STANDARD PENETRATION TEST, BLOWS PER FOOT	PERCENT PASSING NO. 200 SIEVE	DRY UNIT WEIGHT, PCF	NATURAL MOISTURE CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX, %
53.5	0	4" Asphalt							
53.2		9" Concrete							
52.4		Stiff to very stiff gray and yellowish brown LEAN CLAY WITH SAND (CL)				14.2			
				70.4	116	14.3	36	18	18
	5	-w/ferrous stains 6'-10'				16.5			
						14.6			
43.5	10					17.2			
	15								
	20								
	25								
	30								
	35								

UNDRAINED SHEAR STRENGTH, TSF
○ HAND PENETROMETER
● UNCONFINED COMPRESSION
■ UNCONSOLIDATED-UNDRAINED TRIAXIAL COMPRESSION
△ TORVANE
0.5 1.0 1.5 2.0 2.5

DEPTH TO WATER IN BORING :
NO GROUNDWATER ENCOUNTERED DURING DRILLING.
HOLE OPEN TO 10.0 FT. AT END OF DRILLING.

Geotest Engineering, Inc.

FIGURE A-9

PRELIMINARY

LOG OF BORING NO. GB-10

PROJECT : Turkey Gully Storm Water Drainage Improvements
WBS No. M-430100-0020-3
Houston, Texas
PROJECT NO. : 1140296501

LOCATION : N 13856749.48, E 3102909.55
W. 19th St.; See Plan of Borings (Figure 2.10)
COMPLETION DEPTH : 10.0 FT.

SURFACE ELEVATION : 54.89 FT.
DATE : 04-07-25

SAMPLER : Shelby Tube/Split Spoon
DRY AUGER : 0.0 TO 10.0 FT.
WET ROTARY : -- TO -- FT.

ELEVATION, FEET	DEPTH, FEET	DESCRIPTION OF MATERIAL	STANDARD PENETRATION TEST, BLOWS PER FOOT	PERCENT PASSING NO. 200 SIEVE	DRY UNIT WEIGHT, PCF	NATURAL MOISTURE CONTENT, %	LIQUID LIMIT, %	PLASTIC LIMIT, %	PLASTICITY INDEX, %
54.8	0	1.5" Asphalt							
54.3		6" Concrete							
52.9		FILL: firm to very stiff gray silty clay with sand		82.2	110	17.5	18	12	6
		Stiff to very stiff yellowish brown and gray LEAN CLAY WITH SAND (CL) w/ferrous stains		80.9		19.3	41	18	23
	5	-w/calcareous nodules 4'-8'				18.8			
						19.6			
44.9	10					20.6			
	15								
	20								
	25								
	30								
	35								

UNDRAINED SHEAR STRENGTH, TSF
○ HAND PENETROMETER
● UNCONFINED COMPRESSION
■ UNCONSOLIDATED-UNDRAINED TRIAXIAL COMPRESSION
△ TORVANE
0.5 1.0 1.5 2.0 2.5

DEPTH TO WATER IN BORING :
NO GROUNDWATER ENCOUNTERED DURING DRILLING.
HOLE OPEN TO 10.0 FT. AT END OF DRILLING.

Geotest Engineering, Inc.

FIGURE A-10

PRELIMINARY

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TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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NOT INTENDED FOR CONSTRUCTION

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

BORING LOG SHEET

SHEET 5 OF 5

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
NTS	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 20 OF 278	

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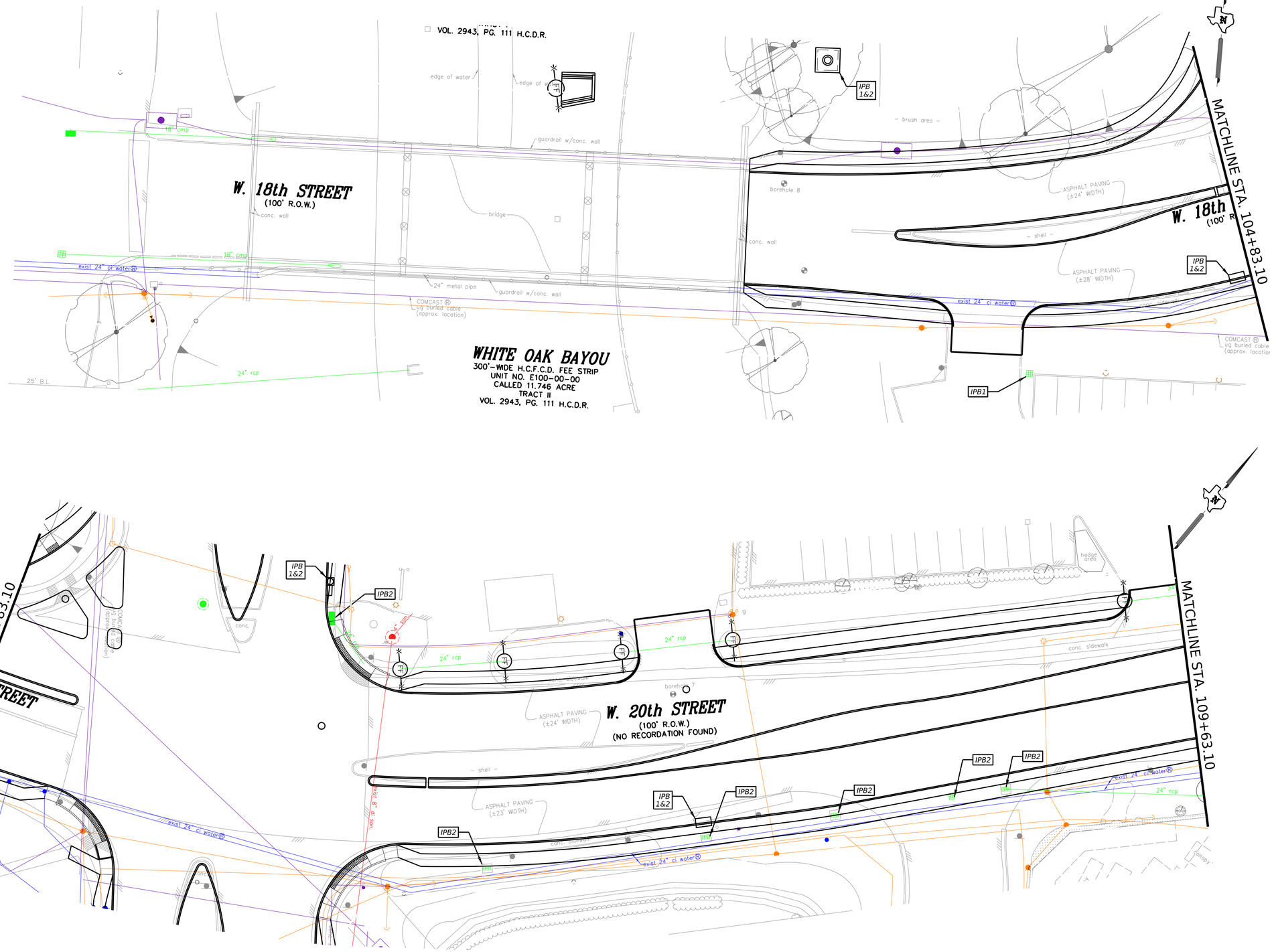
RohitHG
TURKEY-BLS-105.dgn



LEGEND

SYMBOL	DESCRIPTION
FF	FILTER FABRIC FENCE
CTW	CONCRETE TRUCK WASHOUT
SC	STABILIZED CONSTRUCTION ENTERANCE/EXIT
IPB1	INLET PROTECTION BARRIER PHASE 1
IPB2	INLET PROTECTION BARRIER PHASE 2
	HYDRO MULCH
	SOD
	FLOW DIRECTION

SWPPP NOTES

A. GRASS SHALL BE TURF SOD. LAY 16-INCH STRIP WIDTHS FOR THOSE AREA BEHIND A CURB ALONG PERIMETER WHERE TOPSOIL AND PAVEMENT INTERSECT.

B. THE LOCATION OF CONSTRUCTION SUPPORT ACTIVITIES INCLUDING MATERIALS, WASTE, BORROW, FILL AND EQUIPMENT STORAGE AREA WILL BE SHOWN ON THE PLAN SHEETS ONCE ESTABLISHED BY CONTRACTOR. THESE SITES WILL BE INCLUDED IN THE INSPECTION REPORT.

C. THE LOCATION OF VEHICLE WASH AREA INCLUDING CONCRETE WASHOUTS WILL BE SHOWN ON THE PLANS ONCE ESTABLISHED BY THE CONTRACTOR. THIS SITE WILL BEING INCLUDED IN THE INSPECTION REPORT.

D. THE FOLLOWING RECORDS WILL BE MAINTAINED BY THE CONTRACTOR AND WILL BE MADE READILY AVAILABLE UPON REQUEST TO PARTIES LISTED IN PART III D. 1 OF THE TPDES GENERAL PERMIT TXR150000:

E. DATES WHEN MAJOR GRADING ACTIVITIES OCCUR:

1. ALL DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; AND

2. THE DATES OF THE STABILIZATION (BOTH TEMPORARY AND /OR PERMANENT) MEASURE ARE INITIATED.

F. ALL DIMENSIONS SHOWN TO FACE OF CURB

G. INSTALL REINFORCED FILTER FABRIC FENCE ALONG THE RIGHT-OF-WAY AS SHOWN.

H. TYPICAL EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION ARE SHOWN.

I. OTHER EROSION/SEDIMENTATION CONTROLS INCLUDE:

1. DAILY STREET SWEEPING

2. INSPECTION AND MAINTENANCE PER APPROVED EROSION AND SEDIMENTATION CONTROL PLAN.

0' 40' 80'

SCALE IN FEET

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SBE/WBE/DBE/HUB
TBPELS Engineering Firm No. F-16850
Land Surveying Firm No. 10194810

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ENGINEER: STEVE E. STACY
P.E. SERIAL NO.: 86094
DATE: 10/21/2025

SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
W 20th STREET
STROMWATER POLLUTION PREVENTION PLAN
BEGIN TO END STA 109+63.10

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 21 OF 278	

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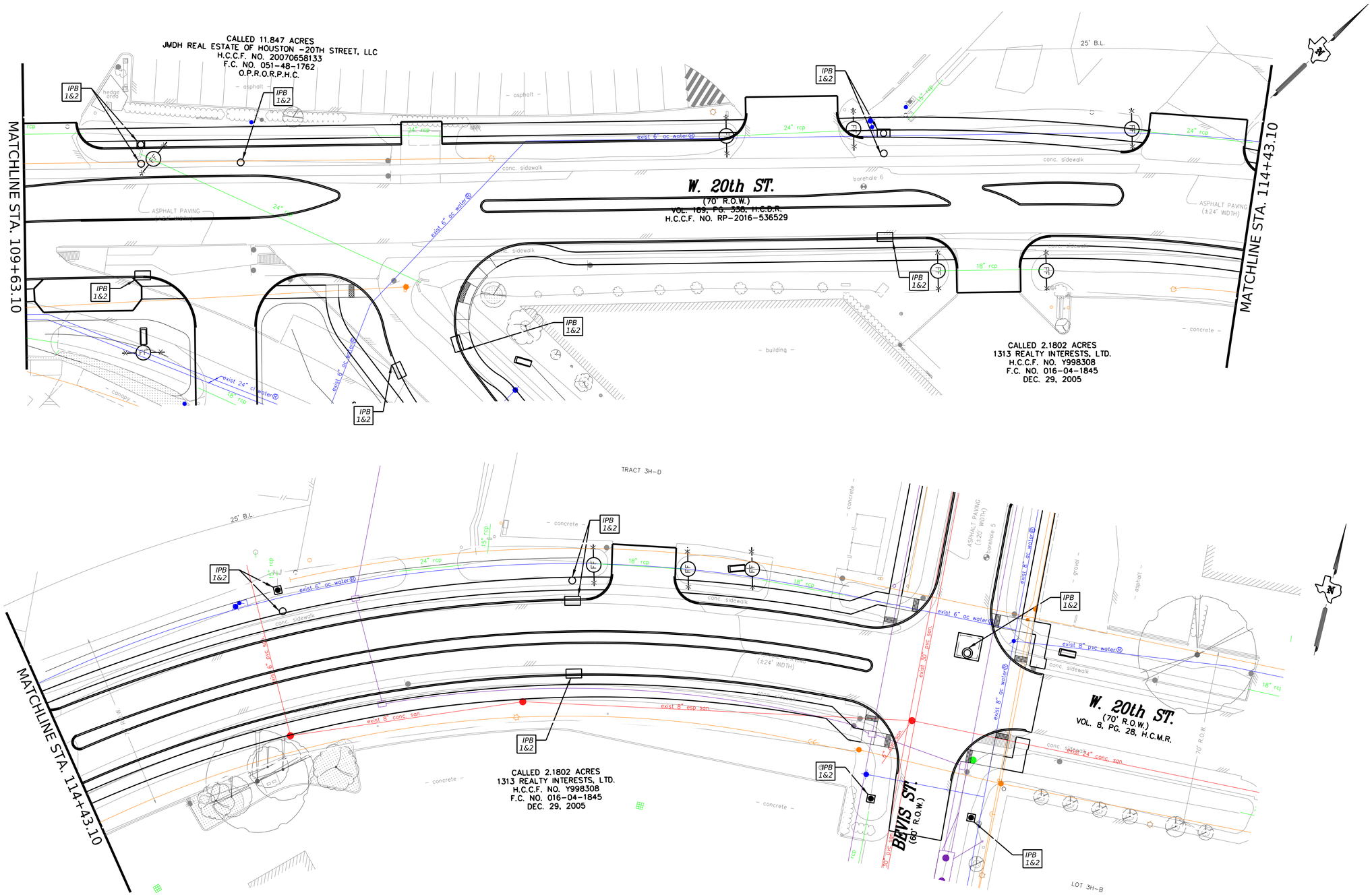
james.kanier



LEGEND

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CTW	CONCRETE TRUCK WASHOUT
SC	STABILIZED CONSTRUCTION ENTERANCE/EXIT
IPB1	INLET PROTECTION BARRIER PHASE 1
IPB2	INLET PROTECTION BARRIER PHASE 2
	HYDRO MULCH
	SOD
	FLOW DIRECTION

SWPPP NOTES

A. GRASS SHALL BE TURF SOD. LAY 16-INCH STRIP WIDTHS FOR THOSE AREA BEHIND A CURB ALONG PERIMETER WHERE TOPSOIL AND PAVEMENT INTERSECT.

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G. INSTALL REINFORCED FILTER FABRIC FENCE ALONG THE RIGHT-OF-WAY AS SHOWN.

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1. DAILY STREET SWEEPING

2. INSPECTION AND MAINTENANCE PER APPROVED EROSION AND SEDIMENTATION CONTROL PLAN.

0' 40' 80'

SCALE IN FEET

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Land Surveying Firm No. 10194810

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ENGINEER: STEVE E. STACY
P.E. SERIAL NO.: 86264
DATE: 10/21/2025

SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
BEVIS STREET
STORMWATER POLLUTION PREVENTION PLAN
STA 109+63.10 TO END

WBS NUMBER	M-410291-0001-4
DRAWING SCALE	1"=40'
CITY OF HOUSTON PM	LOI MA
SHEET NO.	22 OF 278

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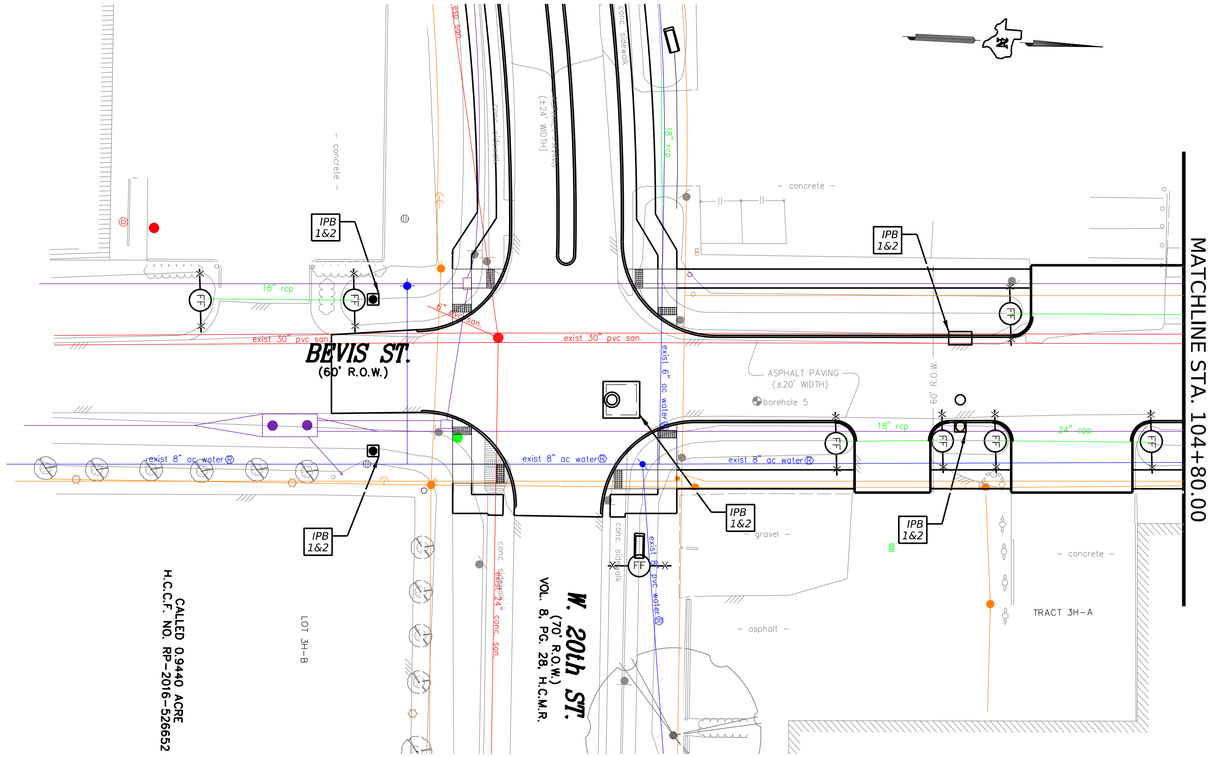
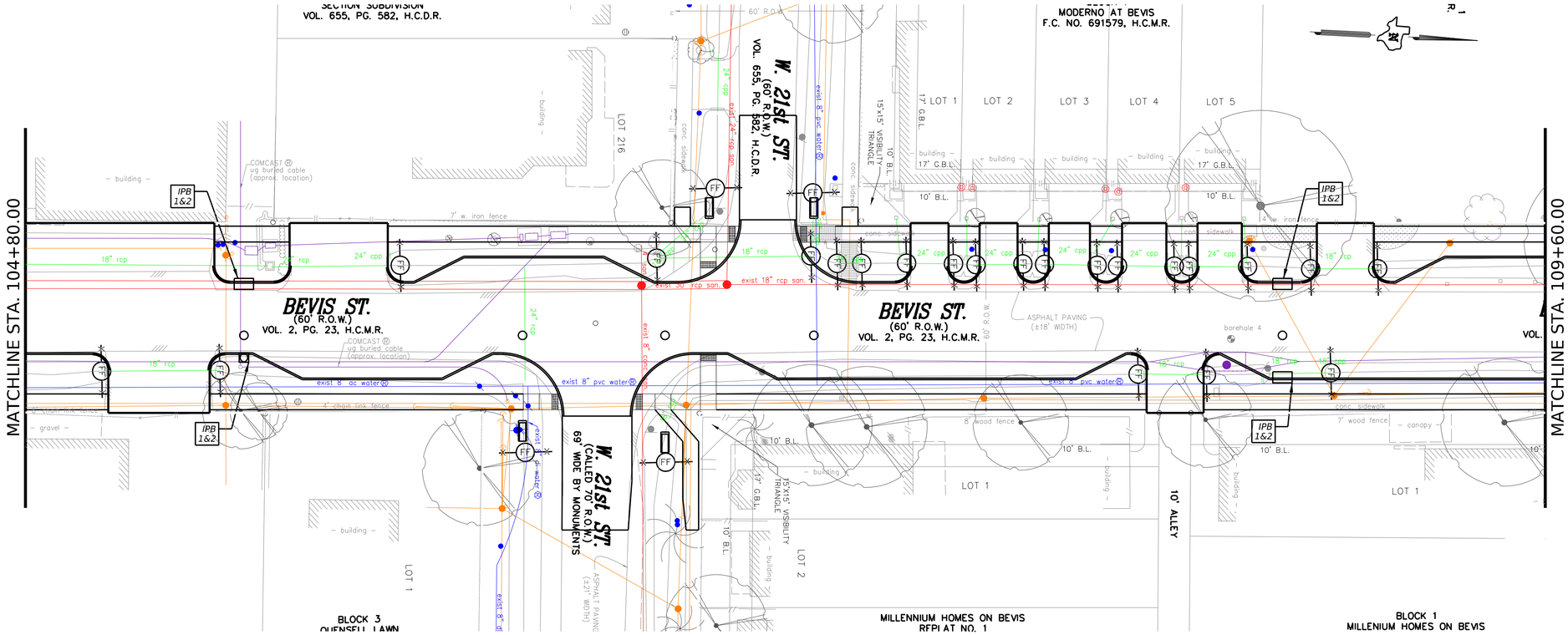
J:\SWPPP W. 20th STA 109+63.10 TO END.dgn
james.kanier





LEGEND

SYMBOL	DESCRIPTION
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SC	STABILIZED CONSTRUCTION ENTERANCE/EXIT
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IPB2	INLET PROTECTION BARRIER PHASE 1
	HYDRO MULCH
	SOD
	FLOW DIRECTION

SWPPP NOTES

A. GRASS SHALL BE TURF SOD. LAY 16-INCH STRIP WIDTHS FOR THOSE AREA BEHIND A CURB ALONG PERIMETER WHERE TOPSOIL AND PAVEMENT INTERSECT.

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F. ALL DIMENSIONS SHOWN TO FACE OF CURB

G. INSTALL REINFORCED FILTER FABRIC FENCE ALONG THE RIGHT-OF-WAY AS SHOWN.

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1. DAILY STREET SWEEPING

2. INSPECTION AND MAINTENANCE PER APPROVED EROSION AND SEDIMENTATION CONTROL PLAN.

0' 40' 80'

SCALE IN FEET

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SBE/WBE/DBE/HUB
TBPELS Engineering Firm No. F-16850
Land Surveying Firm No. 10194810

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ENGINEER: STEVE E. STACY
P.E. SERIAL NO.: 85294
DATE: 10/22/2025

SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
BEVIS STREET
STROMWATER POLLUTION PREVENTION PLAN
STA BEGIN TO STA 109+60.00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1" = 40'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 23 OF 278	

H.C.C

james.kahler

10/22/2025
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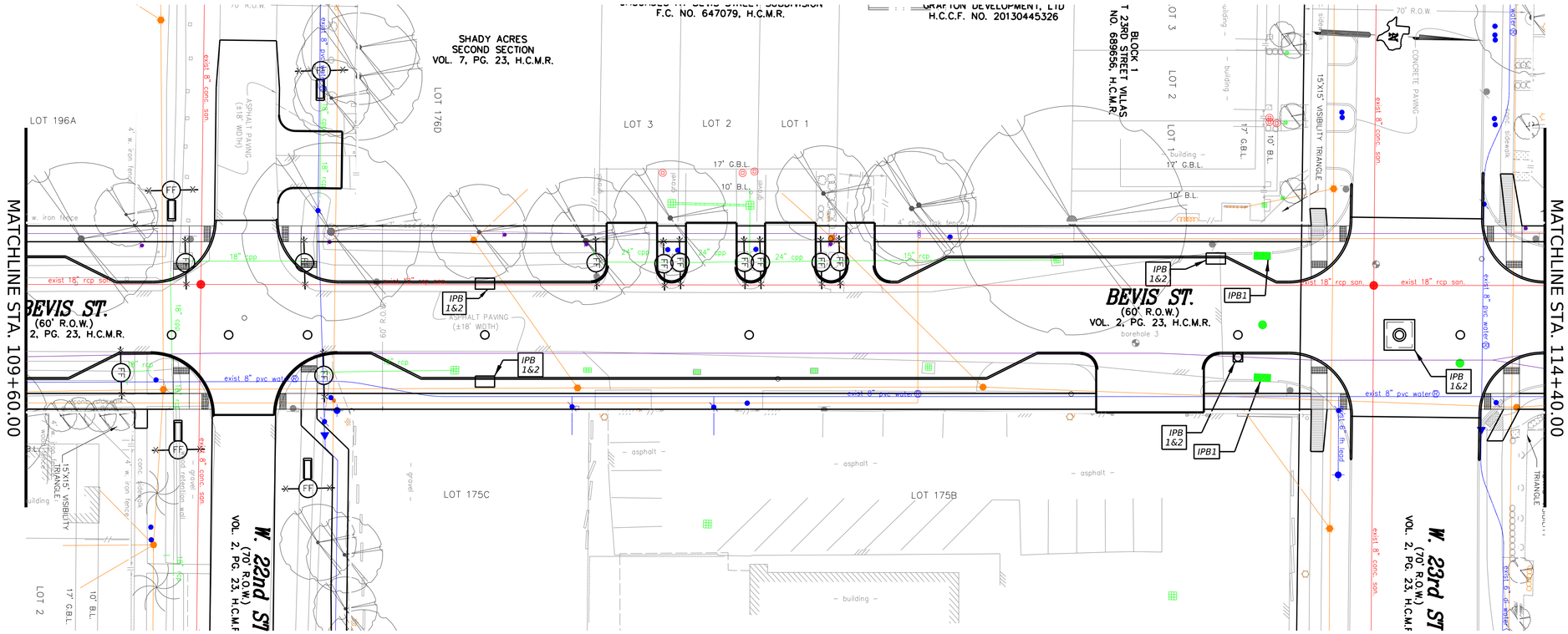
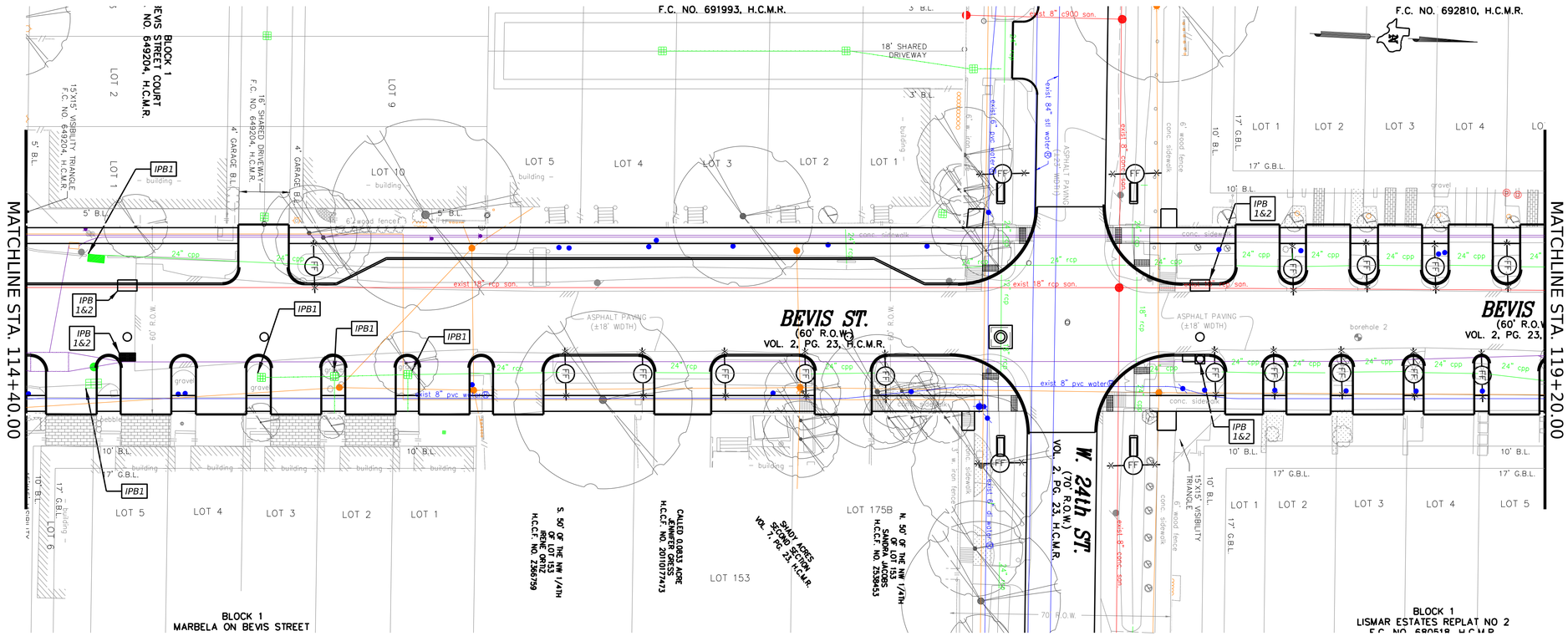
SWPPP BEVIS ST BEGIN TO STA 109+60.dgn





LEGEND

SYMBOL	DESCRIPTION
FF	FILTER FABRIC FENCE
CTW	CONCRETE TRUCK WASHOUT
SC	STABILIZED CONSTRUCTION ENTERANCE/EXIT
IPB1	INLET PROTECTION BARRIER PHASE 1
IPB2	INLET PROTECTION BARRIER PHASE 1
	HYDRO MULCH
	SOD
→	FLOW DIRECTION

SWPPP NOTES

A. GRASS SHALL BE TURF SOD. LAY 16-INCH STRIP WIDTHS FOR THOSE AREA BEHIND A CURB ALONG PERIMETER WHERE TOPSOIL AND PAVEMENT INTERSECT.

B. THE LOCATION OF CONSTRUCTION SUPPORT ACTIVITIES INCLUDING MATERIALS, WASTE, BORROW, FILL AND EQUIPMENT STORAGE AREA WILL BE SHOWN ON THE PLAN SHEETS ONCE ESTABLISHED BY CONTRACTOR. THESE SITES WILL BE INCLUDED IN THE INSPECTION REPORT.

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D. THE FOLLOWING RECORDS WILL BE MAINTAINED BY THE CONTRACTOR AND WILL BE MADE READILY AVAILABLE UPON REQUEST TO PARTIES LISTED IN PART III D. 1 OF THE TPDES GENERAL PERMIT TXR150000:

E. DATES WHEN MAJOR GRADING ACTIVITIES OCCUR:

1. ALL DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; AND

2. THE DATES OF THE STABILIZATION (BOTH TEMPORARY AND /OR PERMANENT) MEASURE ARE INITIATED.

F. ALL DIMENSIONS SHOWN TO FACE OF CURB

G. INSTALL REINFORCED FILTER FABRIC FENCE ALONG THE RIGHT-OF-WAY AS SHOWN.

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1. DAILY STREET SWEEPING

2. INSPECTION AND MAINTENANCE PER APPROVED EROSION AND SEDIMENTATION CONTROL PLAN.

0' 40' 80'

SCALE IN FEET

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SBE/WBE/DBE/HUB
TBPELS Engineering Firm No. F-16850
Land Surveying Firm No. 10194810

SURVEYED BY: KUO
FB NO. P-6325

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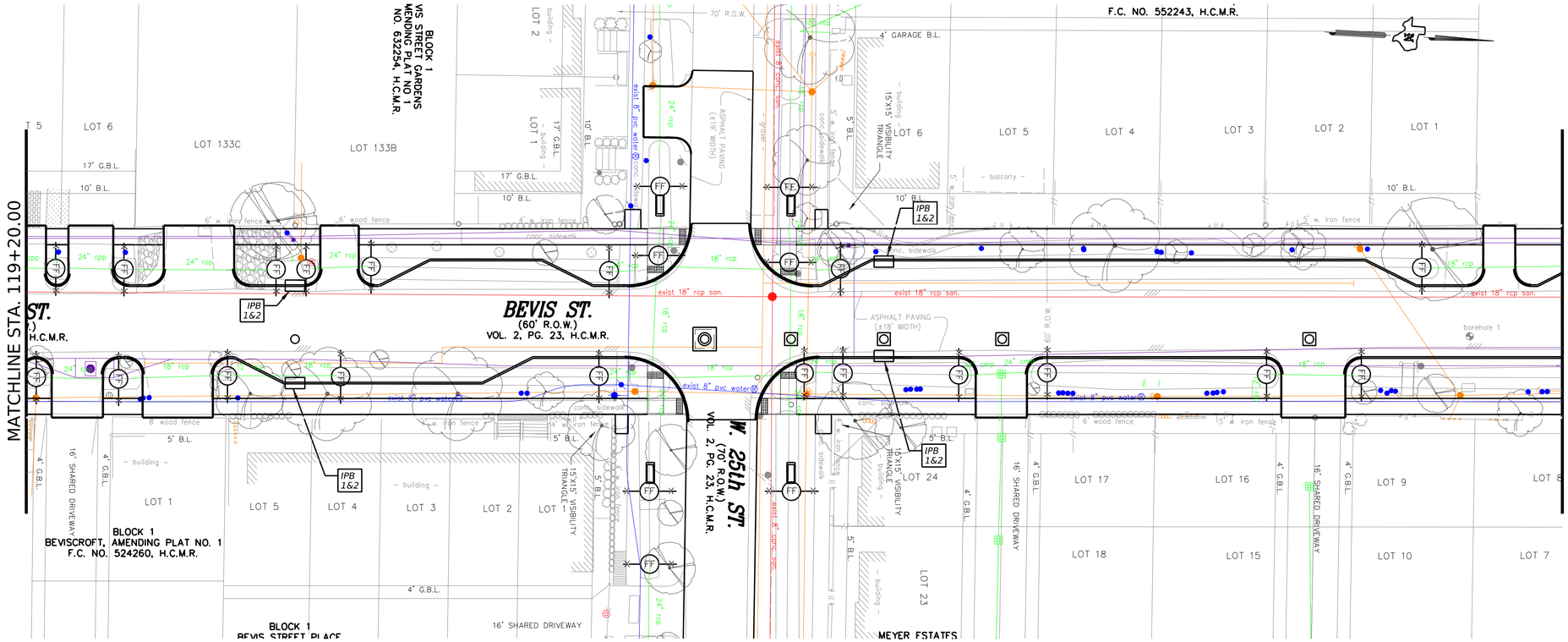
ENGINEER: STEVE E. STACY
P.E. SERIAL NO.: 80294
DATE: 10/21/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
BEVIS STREET
STROMWATER POLLUTION PREVENTION PLAN
STA 109+60.00 TO STA 119+20.00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 24 OF 278	

James.kohler
10/21/2025
...\SWPPP BEVIS ST STA 109+60 TO STA 119+20.dgn



LEGEND

SYMBOL	DESCRIPTION
FF	FILTER FABRIC FENCE
CTW	CONCRETE TRUCK WASHOUT
SC	STABILIZED CONSTRUCTION ENTERANCE/EXIT
IPB1	INLET PROTECTION BARRIER PHASE 1
IPB2	INLET PROTECTION BARRIER PHASE 1
	HYDRO MULCH
	SOD
	FLOW DIRECTION

SWPPP NOTES

A. GRASS SHALL BE TURF SOD. LAY 16-INCH STRIP WIDTHS FOR THOSE AREA BEHIND A CURB ALONG PERIMETER WHERE TOPSOIL AND PAVEMENT INTERSECT.

B. THE LOCATION OF CONSTRUCTION SUPPORT ACTIVITIES INCLUDING MATERIALS, WASTE, BORROW, FILL AND EQUIPMENT STORAGE AREA WILL BE SHOWN ON THE PLAN SHEETS ONCE ESTABLISHED BY CONTRACTOR. THESE SITES WILL BE INCLUDED IN THE INSPECTION REPORT.

C. THE LOCATION OF VEHICLE WASH AREA INCLUDING CONCRETE WASHOUTS WILL BE SHOWN ON THE PLANS ONCE ESTABLISHED BY THE CONTRACTOR. THIS SITE WILL BEING INCLUDED IN THE INSPECTION REPORT.

D. THE FOLLOWING RECORDS WILL BE MAINTAINED BY THE CONTRACTOR AND WILL BE MADE READILY AVAILABLE UPON REQUEST TO PARTIES LISTED IN PART III D. 1 OF THE TPDES GENERAL PERMIT TXR150000:

E. DATES WHEN MAJOR GRADING ACTIVITIES OCCUR:

1. ALL DATES WHEN CONSTRUCTION ACTIVITIES TEMPORARILY OR PERMANENTLY CEASE ON A PORTION OF THE SITE; AND

2. THE DATES OF THE STABILIZATION (BOTH TEMPORARY AND /OR PERMANENT) MEASURE ARE INITIATED.

F. ALL DIMENSIONS SHOWN TO FACE OF CURB

G. INSTALL REINFORCED FILTER FABRIC FENCE ALONG THE RIGHT-OF-WAY AS SHOWN.

H. TYPICAL EROSION AND SEDIMENTATION CONTROLS DURING CONSTRUCTION ARE SHOWN.

I. OTHER EROSION/SEDIMENTATION CONTROLS INCLUDE:

1. DAILY STREET SWEEPING

2. INSPECTION AND MAINTENANCE PER APPROVED EROSION AND SEDIMENTATION CONTROL PLAN.

0' 40' 80'

SCALE IN FEET

MBCO
ENGINEERING + SURVEYING
14811 St. Mary's Lane, Suite 152
Houston, Texas 77079
281.760.1656
MBCOEngineering.com
SBE/WBE/DBE/HUB
TBPELS Engineering Firm No. F-16850
Land Surveying Firm No. 10194810

FOR INTERIM REVIEW ONLY

THIS DOCUMENT IS INCOMPLETE AND IS NOT INTENDED TO BE USED FOR BIDDING OR CONSTRUCTION PURPOSES.

ENGINEER: STEVE E. STACY
P.E. SERIAL NO.: 80294
DATE: 10/21/2025

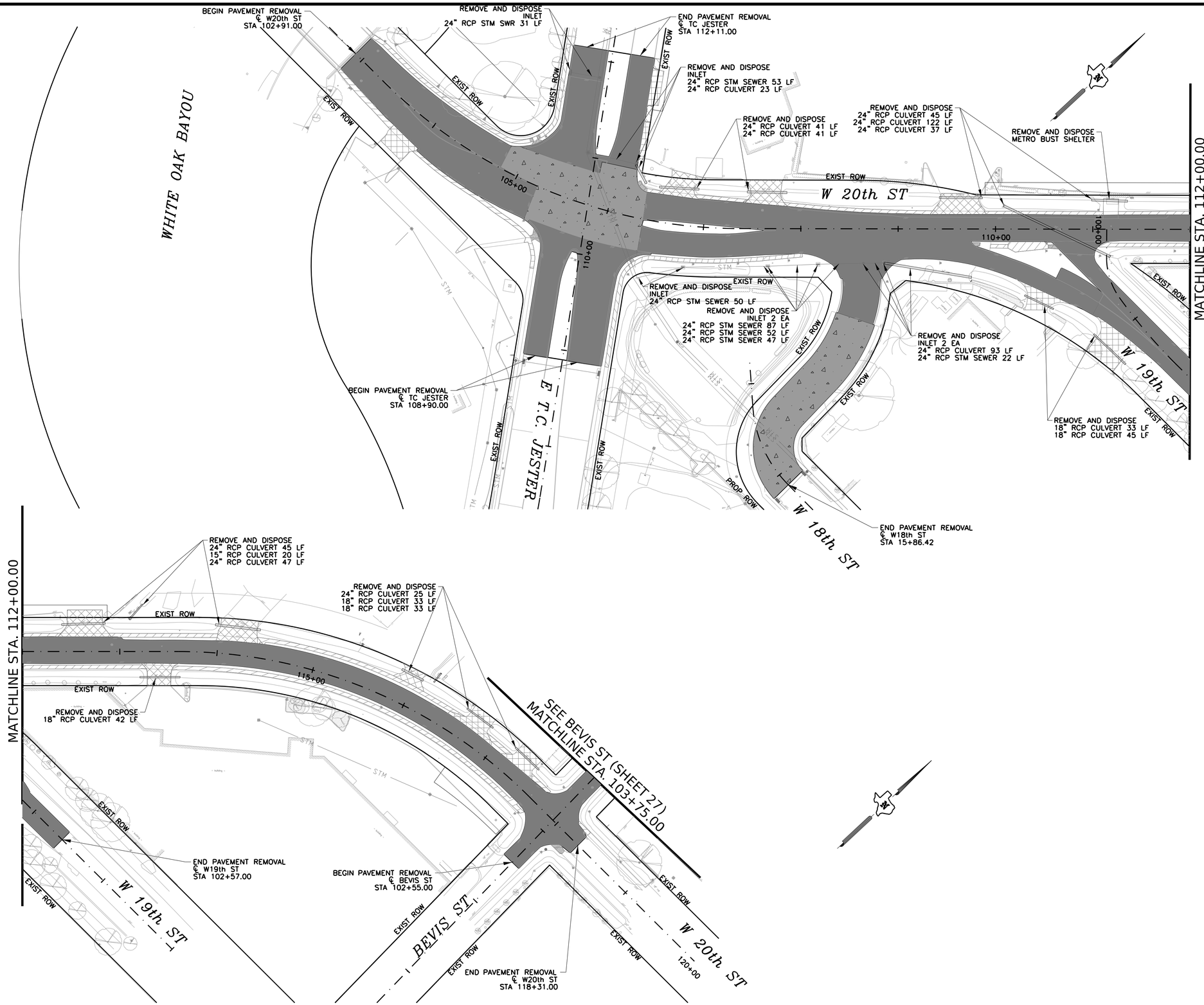
SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
BEVIS STREET
STROMWATER POLLUTION PREVENTION PLAN
STA 119+20.00 TO END

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 25 OF 278	

10/21/2025
...\SWPPP BEVIS ST STA 119+20 TO END.dgn
James.kohler



LEGEND

- ASPHALT PAVEMENT REMOVAL
- CONCRETE REMOVAL
- SIDEWALK REMOVAL
- DRIVEWAY REMOVAL

0′ 50′ 100′
SCALE IN FEET

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

THESE PLANS ARE PRELIMINARY AND ARE BEING ISSUED FOR REVIEW BY PUBLIC AGENCIES AND OTHER PRELIMINARY PURPOSES. WHEN ISSUED IN FINAL FORM THEY WILL BE SEALED, SIGNED, AND DATED BY THE RESPONSIBLE ENGINEER.

RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

DEMOLITION PLAN

SHEET 01 OF 02

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=50′	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 26 OF 278	

10/24/2025 I:\Generic\Sheet\DEMO-W20th.dgn
RicardoM
DEMO-W20th.dgn

SEE W 20TH ST (SHEET 26)
MATCHLINE STA. 117+15.40

MATCHLINE STA. 114+50.00

MATCHLINE STA. 114+50.00

LEGEND

- ASPHALT PAVEMENT REMOVAL
- CONCRETE REMOVAL
- SIDEWALK REMOVAL
- DRIVEWAY REMOVAL

BEGIN PAVEMENT REMOVAL
℄ W21st ST
STA 0+34.16

REMOVE AND DISPOSE
18" RCP CULVERT 123 LF

REMOVE AND DISPOSE
18" RCP CULVERT 48 LF
18" CCP CULVERT 17 LF

REMOVE AND DISPOSE
24" CCP CULVERT 38 LF
24" RCP CULVERT 36 LF

REMOVE AND DISPOSE
24" CCP CULVERT 7 LF
24" CCP CULVERT 8 LF
24" CCP CULVERT 15 LF
24" CCP CULVERT 15 LF

BEGIN PAVEMENT REMOVAL
℄ W22nd ST
STA 10+89.00

REMOVE AND DISPOSE
18" CCP CULVERT 38 LF
18" CCP CULVERT 28 LF

REMOVE AND DISPOSE
24" CCP CULVERT 17 LF
24" CCP CULVERT 19 LF
24" CCP CULVERT 18 LF
18" RCP CULVERT 21 LF

REMOVE AND DISPOSE
INLET
18" RCP STM SEWER 53 LF
24" RCP STM SEWER 65 LF
24" RCP STM SEWER 23 LF

REMOVE AND DISPOSE
18" RCP CULVERT 30 LF

REMOVE AND DISPOSE
24" CCP CULVERT 20 LF
24" CCP CULVERT 20 LF
24" CCP CULVERT 20 LF
24" RCP CULVERT 71 LF

BEGIN PAVEMENT REMOVAL
℄ W23rd ST
STA 11+18.80

BEGIN PAVEMENT REMOVAL
℄ BEVIS ST
STA 102+55.00

BEGIN PAVEMENT REMOVAL
℄ W20th ST
STA 118+31.00

W 20th ST

W 21st ST

W 22nd ST

W 23rd ST

BEVIS ST

105+00

110+00

120+00

0+00

REMOVE AND DISPOSE
18" RCP CULVERT 25 LF
24" CCP CULVERT 40 LF
18" RCP CULVERT 37 LF

END PAVEMENT REMOVAL
℄ W21st ST
STA 0+67.00

REMOVE AND DISPOSE
18" RCP CULVERT 6 LF

REMOVE AND DISPOSE
18" RCP CULVERT 21 LF

REMOVE AND RELOCATE
MAILBOX

REMOVE AND DISPOSE
18" RCP CULVERT 21 LF

REMOVE AND DISPOSE
18" RCP CULVERT 7 LF
18" RCP CULVERT 6 LF

REMOVE AND DISPOSE
INLET 2 EA
18" RCP CULVERT 43 LF
18" RCP STM SEWER 42 LF
18" RCP STM SEWER 35 LF

REMOVE AND DISPOSE
INLET 3 EA
18" RCP STM SEWER 37 LF
18" RCP STM SEWER 36 LF

REMOVE AND DISPOSE
MANHOLE
INLET
18" RCP CULVERT 17 LF
24" RCP CULVERT 64 LF

END PAVEMENT REMOVAL
℄ W23rd ST
STA 11+81.78

REMOVE AND DISPOSE
24" RCP STM SEWER 37 LF

END PAVEMENT REMOVAL
℄ 22ND ST
STA 12+90.00

END PAVEMENT REMOVAL
℄ 22ND ST
STA 14+79.00

BEGIN PAVEMENT REMOVAL
℄ W24th ST
STA 10+75.00

REMOVE AND DISPOSE
INLET
24" CCP CULVERT 70 LF

REMOVE AND DISPOSE
24" RCP CULVERT 7 LF
18" RCP CULVERT 32 LF
24" RCP CULVERT 38 LF
24" RCP CULVERT 7 LF

REMOVE AND RELOCATE
MAILBOX

REMOVE AND DISPOSE
PED BRIDGE

REMOVE AND DISPOSE
24" RCP CULVERT 6 LF
24" CCP CULVERT 6 LF
24" CCP CULVERT 14 LF
24" CCP CULVERT 14 LF
24" CCP CULVERT 14 LF

BEGIN PAVEMENT REMOVAL
℄ W25th ST
STA 10+98.00

REMOVE AND DISPOSE
24" CCP CULVERT 14 LF
24" CCP CULVERT 14 LF
24" CCP CULVERT 15 LF
24" RCP CULVERT 42 LF
24" RCP CULVERT 17 LF

REMOVE AND DISPOSE
24" RCP CULVERT 7 LF
24" RCP CULVERT 7 LF
24" RCP CULVERT 5 LF
18" RCP CULVERT 35 LF
24" RCP CULVERT 5 LF

BEGIN PAVEMENT REMOVAL
℄ W26th ST
STA 0+49.18

REMOVE AND DISPOSE
18" CMP CULVERT 94 LF
24" RCP CULVERT 13 LF
18" RCP CULVERT 41 LF

REMOVE AND DISPOSE
24" CPP CULVERT 6 LF
24" CPP CULVERT 6 LF

END PAVEMENT REMOVAL
℄ BEVIS ST
STA 125+59.00

REMOVE AND DISPOSE
INLET
MANHOLE
24" RCP STM SEWER 12 LF
24" RCP STM SEWER 41 LF
24" RCP STM SEWER 53 LF

REMOVE AND DISPOSE
24" RCP CULVERT 48 LF
24" RCP CULVERT 19 LF
24" CCP CULVERT 20 LF

END PAVEMENT REMOVAL
℄ W24th ST
STA 12+90.00

REMOVE AND DISPOSE
24" CCP CULVERT 8 LF
18" RCP CULVERT 29 LF
24" CCP CULVERT 8 LF
24" CCP CULVERT 14 LF
24" CCP CULVERT 13 LF

END PAVEMENT REMOVAL
℄ W24th ST
STA 14+73.50

REMOVE AND DISPOSE
24" CCP CULVERT 9 LF
18" RCP CULVERT 29 LF
24" RCP CULVERT 6 LF
18" RCP CULVERT 37 LF

REMOVE AND DISPOSE
18" RCP CULVERT 27 LF

REMOVE AND DISPOSE
PED BRIDGE

REMOVE AND DISPOSE
INLET
24" RCP CULVERT 7 LF
18" RCP CULVERT 29 LF
24" RCP CULVERT 7 LF
24" CMP CULVERT 23 LF

REMOVE AND DISPOSE
18" RCP CULVERT 30 LF

END PAVEMENT REMOVAL
℄ W25th ST
STA 13+00.00

REMOVE AND DISPOSE
18" RCP CULVERT 6 LF

END PAVEMENT REMOVAL
℄ W26th ST
STA 2+00.00

REMOVE AND DISPOSE
24" CPP CULVERT 8 LF
24" CPP CULVERT 8 LF

END PAVEMENT REMOVAL
℄ W25th ST
STA 15+05.00

W 24th ST

W 25th ST

W 26th ST

115+00

120+00

125+00

135+00

145+00

155+00

0′ 50′ 100′
SCALE IN FEET

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591

TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

DEMOLITION PLAN

SHEET 02 OF 02

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=50'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 27 OF 278	

RicardoM
10/24/2025
...\Sheet\DEMO-BEVIS ST.dgn
DEMO-BEVIS ST.dgn

NOTES TO USERS

This map is for use in administering the National Flood Insurance Program. It does not necessarily identify all areas subject to flooding, particularly from local drainage sources of small size. The **community map repository** should be consulted for possible updated or additional flood hazard information.

To obtain more detailed information in areas where **Base Flood Elevations** (BFEs) and/or **floodways** have been determined, users are encouraged to consult the Flood Profiles and Floodway Data and/or Summary of Stillwater Elevations tables contained within the Flood Insurance Study (FIS) report that accompanies this FIRM. Users should be aware that BFEs shown on the FIRM represent rounded whole-foot elevations. These BFEs are intended for flood insurance rating purposes only and should not be used as the sole source of flood elevation information. Accordingly, flood elevation data presented in the FIS report should be utilized in conjunction with the FIRM for purposes of construction and/or floodplain management.

Coastal Base Flood Elevations shown on this map apply only landward of 0.0' North American Vertical Datum of 1988 (NAVD 88). Users of this FIRM should be aware that coastal flood elevations are also provided in the Summary of Stillwater Elevations table in the Flood Insurance Study Report for this jurisdiction. Elevations shown in the Summary of Stillwater Elevations table should be used for construction, and/or floodplain management purposes when they are higher than the elevations shown on this FIRM.

Boundaries of the **floodways** were computed at cross sections and interpolated between cross sections. The floodways were based on hydraulic considerations with regard to requirements of the National Flood Insurance Program. Floodway widths and other pertinent floodway data are provided in the Flood Insurance Study report for this jurisdiction.

Certain areas not in Special Flood Hazard Areas may be protected by **flood control structures**. Refer to Section 2.4 "Flood Protection Measures" of the Flood Insurance Study report for information on flood control structures in this jurisdiction.

The **projection** used in the preparation of this map was Universal Transverse Mercator, Zone 15. The **horizontal datum** was NAD83, GRS80 spheroid. Differences in datum, spheroid, projection or UTM zones used in the production of FIRMs for adjacent jurisdictions may result in slight positional differences in map features across jurisdiction boundaries. These differences do not affect the accuracy of this FIRM.

Flood elevations on this map are referenced to the North American Vertical Datum of 1988. These flood elevations must be compared to structure and ground elevations referenced to the same **vertical datum**. For information regarding conversion between the National Geodetic Vertical Datum of 1929 and the North American Vertical Datum of 1988, visit the National Geodetic Survey website at http://www.ngs.noaa.gov or contact the National Geodetic Survey at the following address:

NGS Information Services
NOAA, N/NGS12
National Geodetic Survey
SSMC-3, #9202
1315 East-West Highway
Silver Spring, Maryland 20910-3282
(301) 713-3242

To obtain current elevation, description, and/or location information for **bench marks** shown on this map, please contact the Information Services Branch of the National Geodetic Survey at **(301) 713-3242**, or visit their website at http://www.ngs.noaa.gov/.

Base map information shown on this FIRM was provided in digital format by the Harris Galveston Area Council and was revised and enhanced by Harris County.

This map reflects more detailed and up-to-date **stream channel configurations** than those shown on the previous FIRM for this jurisdiction. The floodplains and floodways that were transferred from the previous FIRM may have been adjusted to conform to these new stream channel configurations. As a result, the Flood Profiles and Floodway Data tables in the Flood Insurance Study report (which contains authoritative hydraulic data) may reflect stream channel distances that differ from what is shown on this map.

Corporate limits shown on this map are based on the best data available at the time of publication. Because changes due to annexations or de-annexations may have occurred after this map was published, map users should contact appropriate community officials to verify current corporate limit locations.

Please refer to the separately printed **Map Index** for an overview map of the county showing the layout of map panels; community map repository addresses; and a Listing of Communities table containing National Flood Insurance Program dates for each community as well as a listing of the panels on which each community is located.

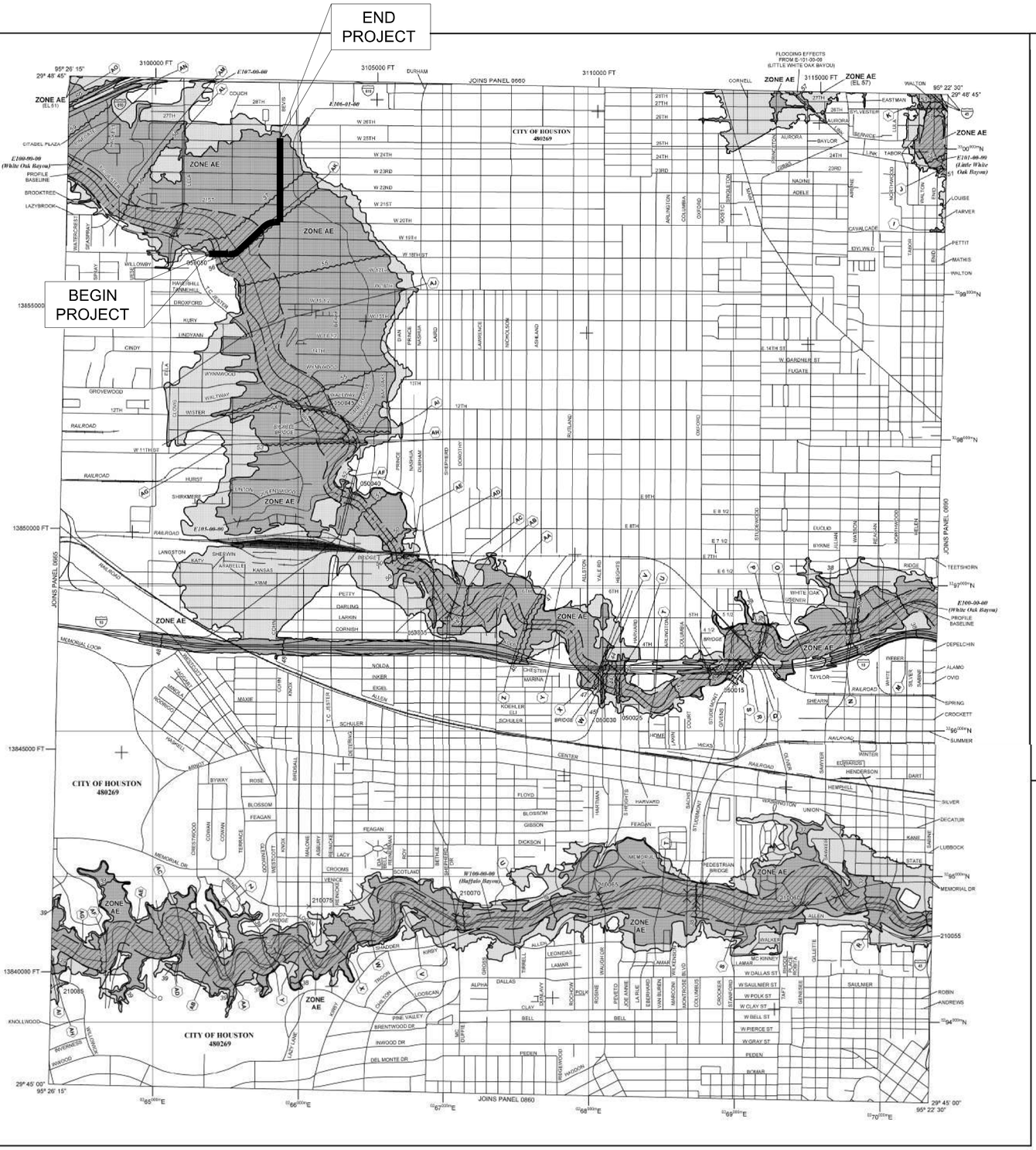
For information on available products associated with this FIRM visit the **FEMA Map Service Center** (MSC) website at http://msc.fema.gov. Available products may include previously issued Letters of Map Change, a Flood Insurance Study Report, and/or digital versions of this map. Many of these products can be ordered or obtained directly from the MSC website.

If you have **questions about this map**, how to order products or the National Flood Insurance Program in general, please call the FEMA Map Information eXchange (FMIX) at 1-877-FEMA-MAP (1-877-336-2627) or visit the FEMA website at http://www.fema.gov/business/nfip.

Vertical Datum Adjustment due to subsidence is the 2001 adjustment.

Benchmarks shown on this map were provided by either Harris County or the National Geodetic Survey. To obtain elevation, description, and location information for benchmarks provided by Harris County, please contact the Permits Office of the Public Infrastructure Department at (713) 956-3000 or visit their website at http://www.eng.hctx.net/permits. For information regarding the benchmarks provided by the National Geodetic Survey, please see note above.

Some bridges and other structures shown on the detailed studied streams are not labeled. See corresponding flood profile for appropriate name.



LEGEND

SPECIAL FLOOD HAZARD AREAS (SFHAs) SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD

The 1% annual chance flood (100-year flood), also known as the base flood, is the flood that has a 1% chance of being equaled or exceeded in any given year. The Special Flood Hazard Area is the area subject to flooding by the 1% annual chance flood. Areas of Special Flood Hazard include Zones A, AE, AH, AO, AR, A99, V, and VE. The Base Flood Elevation is the water-surface elevation of the 1% annual chance flood.

- **ZONE A** — No Base Flood Elevations determined.
- **ZONE AE** — Base Flood Elevations determined.
- **ZONE AH** — Flood depths of 1 to 3 feet (usually areas of ponding); Base Flood Elevations determined.
- **ZONE AO** — Flood depths of 1 to 3 feet (usually sheet flow on sloping terrain); average depths determined. For areas of alluvial fan flooding, velocities also determined.
- **ZONE AR** — Special Flood Hazard Area formerly protected from the 1% annual chance flood by a flood control system that was subsequently decertified. Zone AR indicates that the former flood control system is being restored to provide protection from the 1% annual chance or greater flood.
- **ZONE A99** — Area to be protected from 1% annual chance flood by a Federal flood protection system under construction; no Base Flood Elevations determined.
- **ZONE V** — Coastal flood zone with velocity hazard (wave action); no Base Flood Elevations determined.
- **ZONE VE** — Coastal flood zone with velocity hazard (wave action); Base Flood Elevations determined.

FLOODWAY AREAS IN ZONE AE

The floodway is the channel of a stream plus any adjacent floodplain areas that must be kept free of encroachment so that the 1% annual chance flood can be carried without substantial increases in flood heights.

OTHER FLOOD AREAS

- **ZONE X** — Areas of 0.2% annual chance flood; areas of 1% annual chance flood with average depths of less than 1 foot or with drainage areas less than 1 square mile; and areas protected by levees from 1% annual chance flood.

OTHER AREAS

- **ZONE X** / **ZONE D** — Areas determined to be outside the 0.2% annual chance floodplain. Areas in which flood hazards are undetermined, but possible.

COASTAL BARRIER RESOURCES SYSTEM (CBRS) AREAS

OTHERWISE PROTECTED AREAS (OPAs)

CBRS areas and OPAs are normally located within or adjacent to Special Flood Hazard Areas.

- Floodplain boundary
- Floodway boundary
- Zone D Boundary
- CBRS and OPA Boundary
- Boundary dividing Special Flood Hazard Area Zones and boundary dividing Special Flood Hazard Areas of different Base Flood Elevations, flood depths or flood velocities.
- (EL 987) — Base Flood Elevation line and value; elevation in feet*
- Base Flood Elevation value where uniform within zone; elevation in feet*

*Referenced to the North American Vertical Datum of 1988

- A — A — Cross section line
- 23 — 23 — Transect line
- Culvert, Flume, Penstock or Aqueduct
- Road or Railroad Bridge
- Footbridge
- 97° 07' 30", 32° 22' 30" — Geographic coordinates referenced to the North American Datum of 1983 (NAD 83), Western Hemisphere
- 1000-meter Universal Transverse Mercator grid values, zone 15
- 5000-foot grid ticks: Texas State Plane coordinate system, zone 15 zone South Central (FIPSZONE 4204), Lambert conformal conic projection
- DX5510 — Bench mark (see explanation in Notes to Users section of this FIRM panel)
- M1.5 — River Mile

MAP REPOSITORIES
Refer to Map Repositories list on Map Index.

EFFECTIVE DATE OF COUNTYWIDE FLOOD INSURANCE RATE MAP PANEL
SEPTEMBER 28, 1990

EFFECTIVE DATE(S) OF REVISION(S) TO THIS PANEL
SEPTEMBER 30, 1992
NOVEMBER 6, 1996
APRIL 26, 2000
JUNE 18, 2007
OCTOBER 16, 2013
JUNE 9, 2014

For accompanying Reasons for Revision, refer to the Notice to Flood Insurance Study Users page in the Flood Insurance Study report.

For community map revision history prior to countywide mapping, refer to the Community Map History table located in the Flood Insurance Study report for this jurisdiction.

To determine if flood insurance is available in this community, contact your insurance agent or call the National Flood Insurance Program at 1-800-638-6620.

MAP SCALE 1" = 1000'
500 0 1000 2000 FEET
300 0 300 600 METERS

NFIP NATIONAL FLOOD INSURANCE PROGRAM

PANEL 0670M

FIRM
FLOOD INSURANCE RATE MAP
HARRIS COUNTY, TEXAS AND INCORPORATED AREAS
PANEL 670 OF 1150

(SEE MAP INDEX FOR FIRM PANEL LAYOUT)

CONTAINS:

COMMUNITY	NUMBER	PANEL	SUFFIX
HOUSTON, CITY OF	480296	0670	M

Notice to User: The **Map Number** shown below should be used when placing map orders; the **Community Number** shown above should be used on insurance applications for the subject community.

MAP NUMBER
48201C0670M

MAP REVISED
JUNE 9, 2014

Federal Emergency Management Agency

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591

TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
FEMA FLOODPLAIN

SHEET 1 OF 1

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NTS	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **28** OF **278**	

10/23/2025
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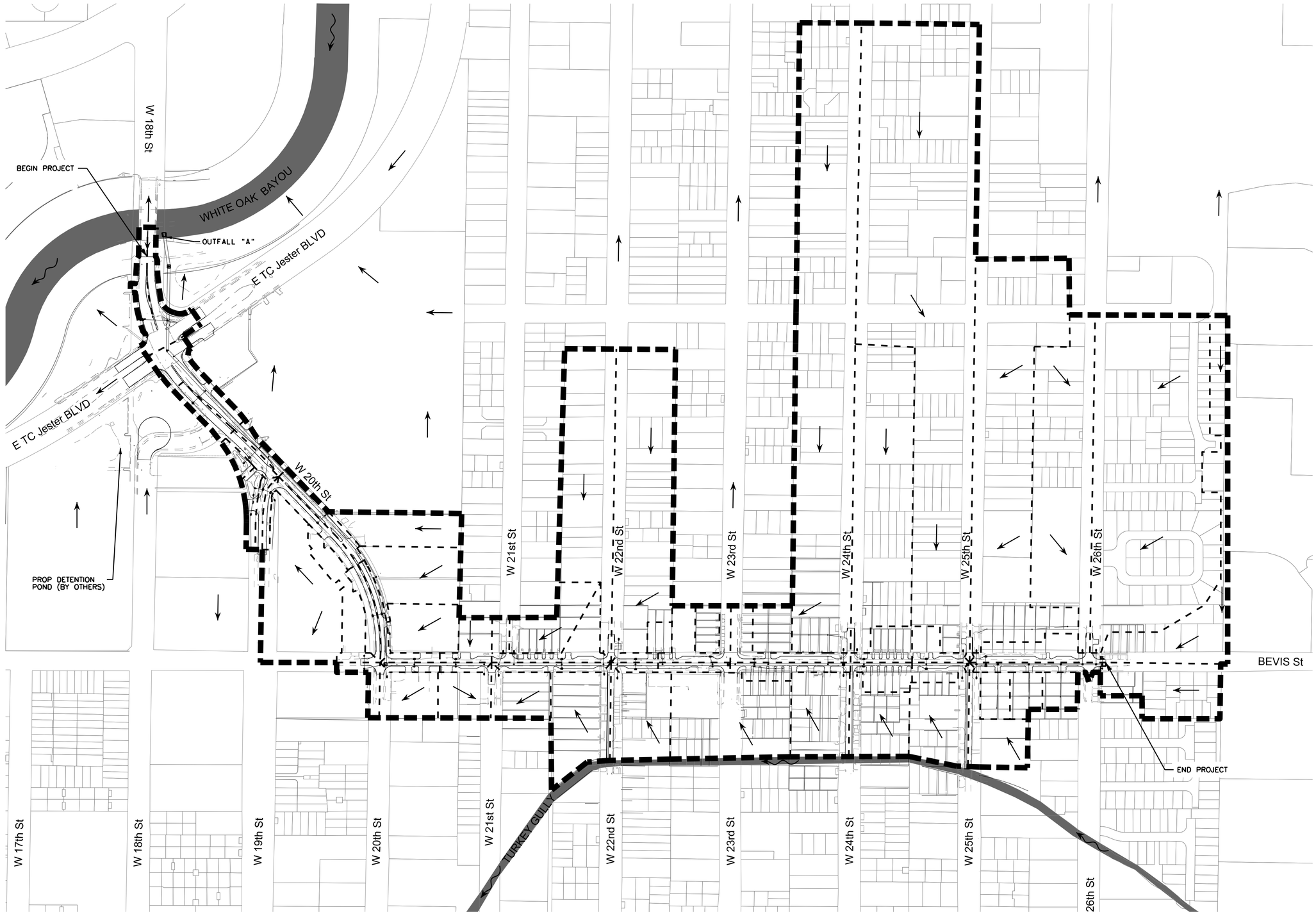
Rohith G
TUR_DRN_FEMA_01.dgn



LEGEND

- DRAINAGE AREA BOUNDARY
- DRAINAGE SUB-AREA
- PROPOSED STORM SEWER
- SHEET FLOW DIRECTION
- CHANNEL FLOW DIRECTION
- PROPERTY LINE
- EXISTING CHANNEL

0' 150' 300'
SCALE IN FEET

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591

TBPE FIRM REGISTRATION NO. F-6825

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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

OVERALL DRAINAGE AREA MAP

SHEET 1 OF 1

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-430100-0020-4	
DRAWING SCALE	
1"=150'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 29 OF 278	

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10/24/2025
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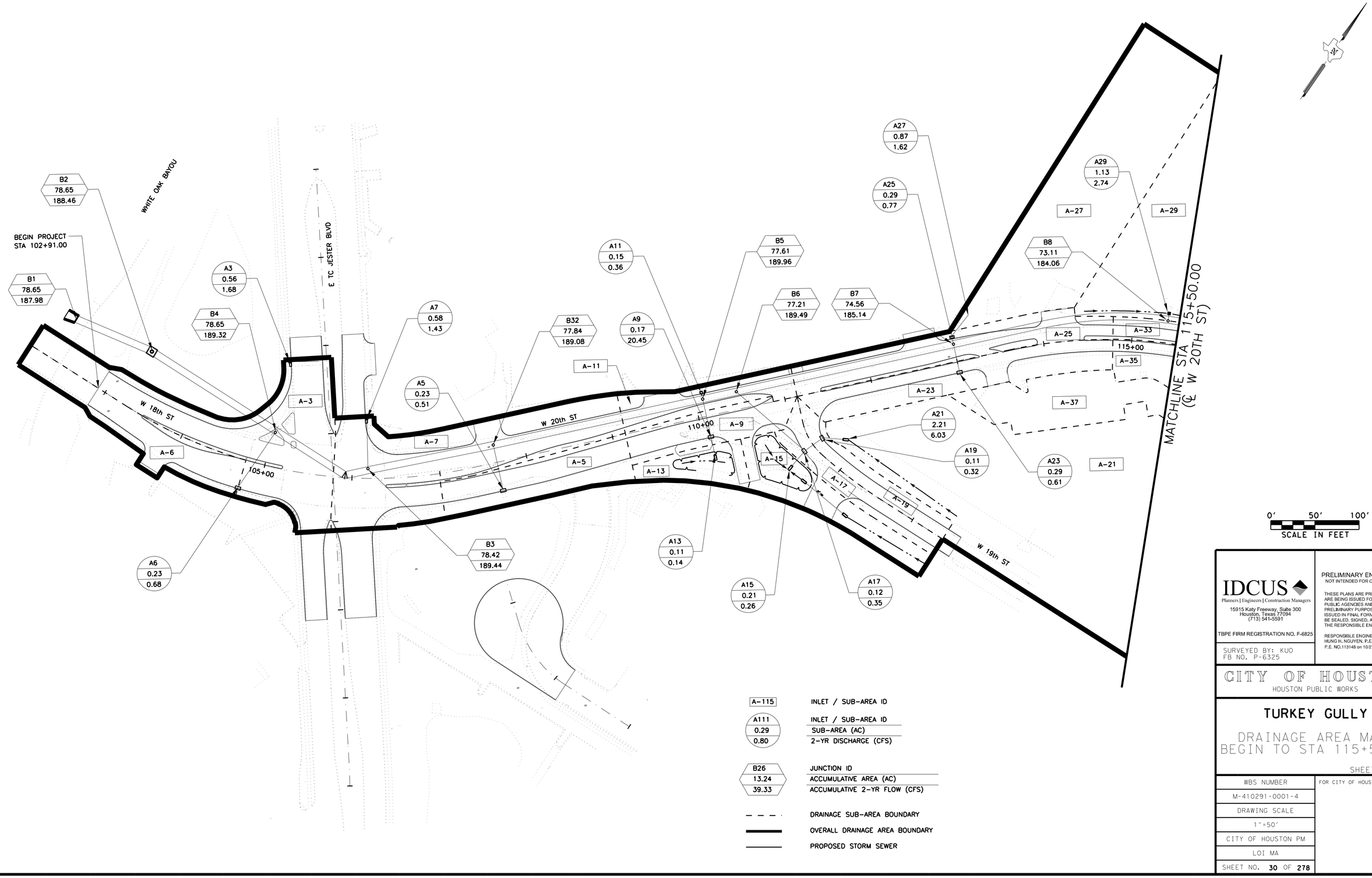
TURKEY-OVERALL-DAM.dgn



IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 941-5581
TBPE FIRM REGISTRATION NO. F-6825

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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

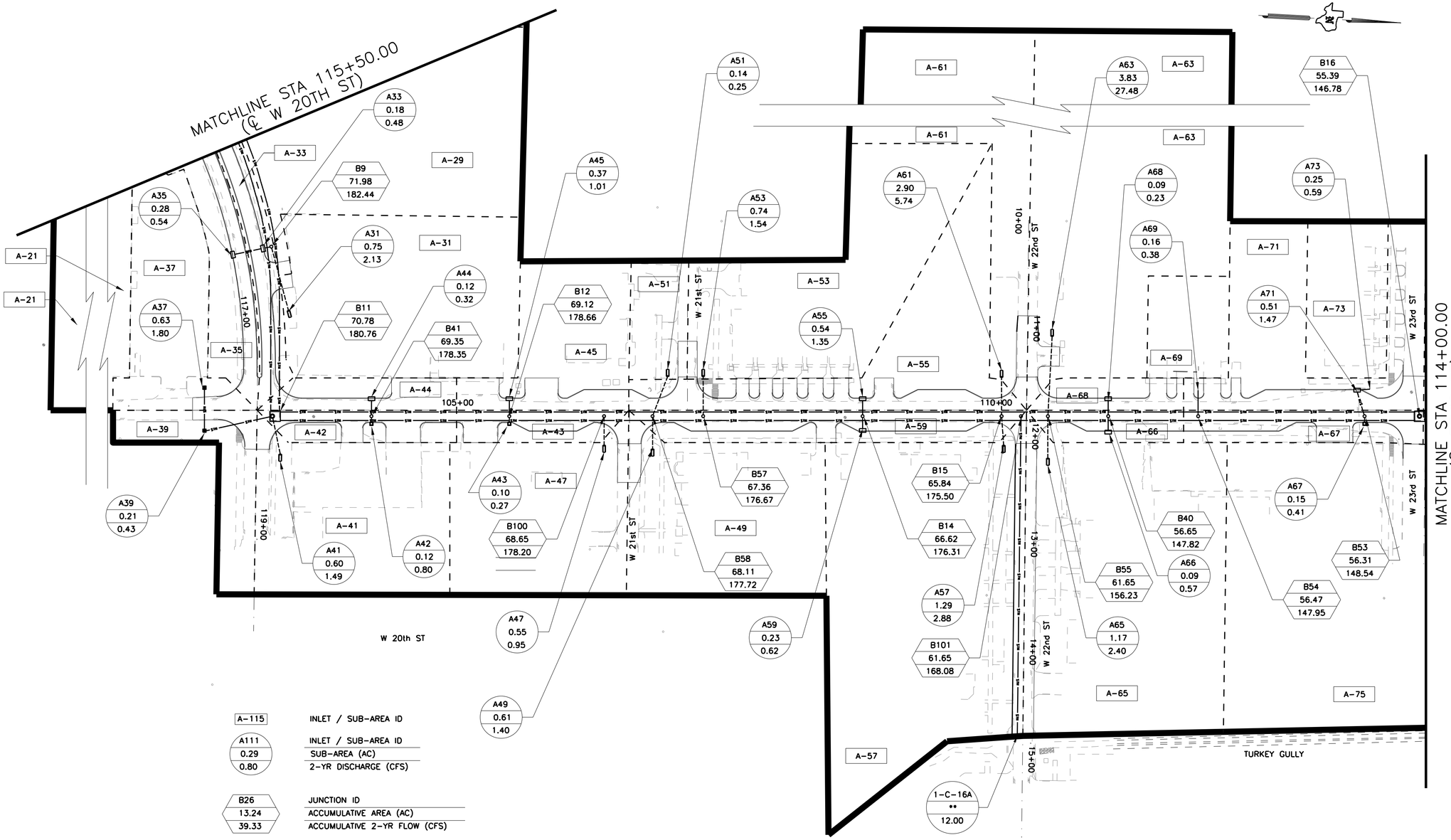
DRAINAGE AREA MAP
BEGIN TO STA 115+50.00

SHEET 1 OF 3

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=50′	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 30 OF 278	

10/23/2025
J:\Sheets\DRAINAGE AREA MAP_01

DRAINAGE AREA MAP_01.dgn



0′ 50′ 100′
SCALE IN FEET

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

THESE PLANS ARE PRELIMINARY AND ARE BEING ISSUED FOR REVIEW BY PUBLIC AGENCIES AND OTHER PRELIMINARY PURPOSES. WHEN ISSUED IN FINAL FORM THEY WILL BE SEALED, SIGNED, AND DATED BY THE RESPONSIBLE ENGINEER.

RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
DRAINAGE AREA MAP
STA 115+00.50 (W20th ST)
TO
STA 114+00.00 (BEVIS ST)
SHEET 2 OF 3

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=50′	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 31 OF 278	

10/23/2025
J:\...\Sheet\DRAINAGE AREA MAP_02
DRAINAGE AREA MAP_02.dgn
Printing

A-115 — INLET / SUB-AREA ID

A111 | 0.29 | 0.80 — INLET / SUB-AREA ID; SUB-AREA (AC); 2-YR DISCHARGE (CFS)

826 | 13.24 | 39.33 — JUNCTION ID; ACCUMULATIVE AREA (AC); ACCUMULATIVE 2-YR FLOW (CFS)

DRAINAGE SUB-AREA BOUNDARY

OVERALL DRAINAGE AREA BOUNDARY

PROPOSED STORM SEWER

MATCHLINE STA 114+00.00 (℄ BEVIS ST)

W 23rd ST

W 24th ST

W 25th ST

W 26th ST

TURKEY GULLY

END PROJECT STA 125+59.00

A-85 | A-99 | A-103 | A-113 | A-115 | A-79 | A-77 | A-87 | A-91 | A-97 | A-105 | A-117 | A-81 | A-93 | A-107 | A-119 | A-83 | A-109 | A-111 | A-75 | A-89 | A-95 | A-101 | A-106 | A-98

B17 | 55.39 | 146.88

A77 | 0.48 | 1.39

A85 | 8.29 | 15.64

A87 | 3.80 | 8.10

A91 | 0.37 | 0.93

A99 | 12.21 | 24.65

A103 | 6.03 | 12.59

A105 | 0.57 | 1.42

B24 | 17.04 | 35.52

A113 | 3.75 | 8.00

A115 | 8.25 | 18.39

B31 | 2.06 | 3.38

B18 | 53.23 | 141.92

B19 | 52.39 | 140.37

B20 | 38.32 | 101.51

B22 | 23.83 | 72.73

A107 | 0.28 | 0.74

B27 | 15.58 | 32.69

B28 | 15.29 | 32.15

A117 | 2.06 | 3.38

A79 | 0.40 | 0.93

B21 | 37.60 | 100.65

A98 | 0.28 | 0.71

B30 | 3.30 | 6.33

B51 | 52.39 | 140.12

B52 | 52.39 | 140.10

A83 | 1.08 | 2.63

A97 | 0.22 | 0.61

A93 | 0.34 | 0.99

A95 | 1.07 | 3.00

A119 | 1.25 | 3.02

A81 | 0.35 | 1.02

2-C-24A •• | 12.00

A89 | 0.90 | 2.54

3-C-31 •• | 24.00

A109 | 0.30 | 0.82

A111 | 0.29 | 0.80

B29 | 11.55 | 24.51

B23 | 23.83 | 48.79

B25 | 16.19 | 33.71

B26 | 15.88 | 33.20

A101 | 0.75 | 1.28

A106 | 0.30 | 0.82

•• POINT FLOWS FROM DRAINAGE REPORT

115+00 | 120+00 | 125+00 | 11+00 | 12+00 | 13+00 | 14+00 | 15+00 | 16+00

0′ 50′ 100′
SCALE IN FEET

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591
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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

DRAINAGE AREA MAP STA 114+00.00 TO END

SHEET 3 OF 3

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=50'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 32 OF 278	

Printing
10/23/2025
...\Sheet\DRAINAGE AREA MAP_03
DRAINAGE AREA MAP_03.dgn

RUNOFF COMPUTATION FOR DESIGN FREQUENCY (2-YR)

ID	C VALUE	AREA (acres)	Tc (min)	Tc used (min)	Intensity (in/hr)	Supply Q (cfs)	Total Q (cfs)
A3	0.78	0.56	15.00	24.03	3.83	0.00	1.68
A5	0.57	0.23	15.00	22.72	3.95	0.00	0.51
A6	0.75	0.23	15.00	22.72	3.95	0.00	0.68
A7	0.64	0.58	15.00	24.09	3.83	0.00	1.43
A9	0.66	0.17	15.00	22.32	3.98	0.00	0.45
A11	0.60	0.15	15.00	22.16	4.00	0.00	0.36
A13	0.31	0.11	15.00	21.78	4.03	0.00	0.14
A15	0.31	0.21	15.00	22.60	3.96	0.00	0.26
A17	0.71	0.12	15.00	21.90	4.02	0.00	0.35
A19	0.73	0.11	15.00	21.78	4.03	0.00	0.32
A21	0.75	2.21	15.00	26.50	3.64	0.00	6.03
A23	0.55	0.29	15.00	23.02	3.92	0.00	0.61
A25	0.68	0.29	15.00	23.04	3.92	0.00	0.77
A27	0.49	0.87	15.00	24.76	3.77	0.00	1.62
A29	0.65	1.13	15.00	25.22	3.74	0.00	2.74
A31	0.75	0.75	15.00	24.51	3.79	0.00	2.13
A33	0.67	0.18	15.00	22.39	3.98	0.00	0.48
A35	0.49	0.28	15.00	22.99	3.92	0.00	0.54
A37	0.75	0.63	15.00	24.22	3.82	0.00	1.80
A39	0.51	0.21	15.00	22.60	3.96	0.00	0.43
A41	0.65	0.60	15.00	24.14	3.82	0.00	1.49
A42	1.65	0.12	15.00	21.88	4.02	0.00	0.80
A43	0.68	0.10	15.00	21.67	4.04	0.00	0.27
A44	0.67	0.12	15.00	21.88	4.02	0.00	0.32
A45	0.70	0.37	15.00	23.39	3.89	0.00	1.01
A47	0.45	0.55	15.00	24.00	3.83	0.00	0.95
A49	0.60	0.61	15.00	24.17	3.82	0.00	1.40
A51	0.45	0.14	15.00	22.07	4.00	0.00	0.25
A53	0.55	0.74	15.00	24.48	3.79	0.00	1.54
A55	0.65	0.54	15.00	23.97	3.84	0.00	1.35
A57	0.60	1.29	15.00	25.46	3.72	0.00	2.88
A59	0.69	0.23	15.00	22.72	3.95	0.00	0.62
A61	0.55	2.90	15.00	27.06	3.60	0.00	5.74

RUNOFF COMPUTATION FOR DESIGN FREQUENCY (2-YR)

ID	C VALUE	AREA (acres)	Tc (min)	Tc used (min)	Intensity (in/hr)	Supply Q (cfs)	Total Q (cfs)
A63	0.55	3.83	15.00	27.67	3.55	0.00	7.48
A65	0.55	1.17	15.00	25.28	3.73	0.00	2.40
A66	1.55	0.09	15.00	21.54	4.06	0.00	0.57
A67	0.69	0.15	15.00	22.16	4.00	0.00	0.41
A68	0.63	0.09	15.00	21.56	4.05	0.00	0.23
A69	0.60	0.16	15.00	22.24	3.99	0.00	0.38
A71	0.75	0.51	15.00	23.88	3.84	0.00	1.47
A73	0.60	0.25	15.00	22.83	3.94	0.00	0.59
A75	0.75	2.16	15.00	26.45	3.64	0.00	5.90
A77	0.75	0.48	15.00	23.79	3.85	0.00	1.39
A79	0.60	0.40	15.00	23.51	3.88	0.00	0.93
A81	0.75	0.35	15.00	23.31	3.89	0.00	1.02
A83	0.65	1.08	15.00	25.14	3.74	0.00	2.63
A85	0.55	8.29	15.00	29.51	3.43	0.00	15.64
A87	0.60	3.80	15.00	27.65	3.55	0.00	8.10
A89	0.75	0.90	15.00	24.82	3.77	0.00	2.54
A91	0.65	0.37	15.00	23.39	3.89	0.00	0.93
A93	0.75	0.34	15.00	23.27	3.90	0.00	0.99
A95	0.75	1.07	15.00	25.12	3.74	0.00	3.00
A97	0.70	0.22	15.00	22.66	3.95	0.00	0.61
A98	0.65	0.28	15.00	22.99	3.92	0.00	0.71
A99	0.60	12.21	15.00	30.54	3.36	0.00	24.65
A101	0.45	0.75	15.00	24.51	3.79	0.00	1.28
A103	0.60	6.03	15.00	28.72	3.48	0.00	12.59
A105	0.65	0.57	15.00	24.06	3.83	0.00	1.42
A106	0.70	0.30	15.00	23.09	3.91	0.00	0.82
A107	0.67	0.28	15.00	22.99	3.92	0.00	0.74
A109	0.70	0.30	15.00	23.09	3.91	0.00	0.82
A111	0.70	0.29	15.00	23.04	3.92	0.00	0.80
A113	0.60	3.75	15.00	27.62	3.56	0.00	8.00
A115	0.65	8.25	15.00	29.50	3.43	0.00	18.39
A117	0.45	2.06	15.00	26.36	3.65	0.00	3.38
A119	0.65	1.25	15.00	25.40	3.72	0.00	3.02

NOTE:
FLOWS ARE CALCULATED BASED ON 2-YR ATLAS 14 RAINFALL DATA FOR HARRIS COUNTY.

IDCUS
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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

DRAINAGE HYDRAULIC COMPUTATION FOR 2-YR & 100-YR

SHEET 1 OF 5

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 33 OF 278	

Ronitng
10/24/2025
...\Drainage\Sheet\TURKEY_HH_01
TURKEY_HH_01.dgn

CUMULATIVE JUNCTION DISCHARGE COMPUTATION

NODE I.D	NODE TYPE	WEIGHTED C-VALUE	CUMULAT. DR. AREA (acres)	CUMULAT . Tc (min)	INTENSITY (in/hr)	ADDITIONAL Q IN NODE (cfs)	TOTAL DISCH. (cfs)
B-31	C MH	0.45	2.06	26.40	3.65	0.00	3.40
B-30	JB	0.53	3.30	26.75	3.62	0.00	6.33
B-28	JB	0.61	15.29	29.76	3.41	0.00	32.15
B-27	JB	0.61	15.58	30.01	3.40	0.00	32.69
B-26	JB	0.61	15.88	30.36	3.38	0.00	33.20
B-25	JB	0.62	16.19	30.70	3.36	0.00	33.71
B-24	JB	0.62	17.04	30.83	3.35	0.00	35.52
B-23	JB	0.61	23.83	30.93	3.34	0.00	48.79
B-19	JB	0.60	52.39	32.14	3.27	36.00	140.37
B-16	JB	0.61	55.39	33.14	3.21	36.93	146.78
B-22	JB	0.61	23.83	30.99	3.34	24.00	72.73
B-15	JB	0.61	65.84	34.35	3.15	48.93	175.50
B-11	JB	0.61	70.78	36.35	3.05	48.93	180.76
B-3	JB	0.61	78.42	39.28	2.91	48.93	189.44
B-2	JB	0.61	78.65	39.99	2.88	48.93	188.46
B-9	MH RISER	0.61	71.98	36.74	3.03	48.93	182.44
B-8	MH RISER	0.61	73.11	37.03	3.02	48.93	184.06
B-7	MH RISER	0.61	74.56	37.63	2.99	48.93	185.14
B-6	MH RISER	0.61	77.21	38.25	2.96	48.93	189.49
B-5	MH RISER	0.61	77.61	38.34	2.95	48.93	189.96
B-32	MH RISER	0.61	77.84	38.93	2.93	48.93	189.08
B-4	MH RISER	0.61	78.65	39.58	2.90	48.93	189.32
B-29	JB	0.61	11.55	29.56	3.43	0.00	24.51
B-18	MH RISER	0.61	53.23	32.92	3.23	36.93	141.92
B-17	MH RISER	0.61	55.39	33.09	3.22	36.93	146.88
B-40	MH RISER	0.61	56.65	34.04	3.16	36.93	147.82
B-14	MH RISER	0.61	66.62	34.73	3.13	48.93	176.31
B-12	MH RISER	0.60	69.12	35.70	3.08	48.93	178.66
B-41	MH RISER	0.60	69.35	36.08	3.06	48.93	178.35
B-21	MH RISER	0.61	37.60	31.39	3.31	24.00	100.65
B-20	MH RISER	0.61	38.32	31.97	3.28	24.00	101.51
B-51	MH RISER	0.60	52.39	32.27	3.26	36.00	140.12
B-52	MH RISER	0.60	52.39	32.80	3.23	36.93	140.10
B-53	MH RISER	0.61	56.31	33.31	3.20	36.93	148.54
B-55	MH RISER	0.61	61.65	34.22	3.16	36.93	156.23
B-54	MH RISER	0.61	56.47	33.79	3.18	36.93	147.95
B-57	MH RISER	0.61	67.36	35.17	3.11	48.93	176.67
B-58	MH RISER	0.61	68.11	35.31	3.10	48.93	177.72
B-101	MH RISER	0.61	61.65	34.29	3.15	48.93	168.08
B-100	MH RISER	0.60	68.65	35.44	3.09	48.93	178.20

SAG INLET COMPUTATION DATA

INLET ID	INLET TYPE	INLET LENGTH (ft)	LEFT-SLOPE		RIGHT-SLOPE		GUTTER		HEAD ALLOWED (ft)	TOTAL Q (cfs)	INLET CAPACITY (cfs)	ACTUAL HEAD (ft)	PONDED WIDTH	
			LONG %	TRANS %	LONG %	TRANS %	n	DEPR. (ft)					LEFT (ft)	RIGHT (ft)
A-67	CURB	5	0.37	2.00	1.26	2.00	0.013	1.50	0.50	0.43	0.71	0.34	2.95	1.34
A-93	CURB	10	0.50	2.00	0.30	2.00	0.013	1.50	0.50	1.01	1.14	0.36	2.89	2.64
A-119	TY E	4	0.63	62.00	0.63	62.00	0.013	1.50	0.50	3.04	24.14	0.23	0.82	0.58
A-107	CURB	5	0.84	2.00	1.35	2.00	0.013	1.50	0.50	0.75	1.68	0.31	1.45	1.33
A-105	CURB	5	0.84	2.00	1.35	2.00	0.013	1.50	0.50	1.42	1.68	0.35	1.23	3.99
A-91	CURB	5	0.50	2.00	0.30	2.00	0.013	1.50	0.50	0.95	1.68	0.32	1.85	1.72
A-98	CURB	5	0.30	2.00	1.23	2.00	0.013	1.50	0.50	0.72	1.68	0.30	1.56	1.06
A-97	CURB	5	0.30	2.00	1.23	2.00	0.013	1.50	0.50	0.61	1.68	0.29	1.35	0.79
A-77	CURB	5	2.00	2.00	1.70	2.00	0.013	1.50	0.50	1.41	1.68	0.35	2.98	2.20
A-81	GRATE	5	2.00	2.00	1.70	2.00	0.013	1.50	0.50	1.04	0.46	0.17	4.37	4.20
A-71	CURB	5	0.37	2.00	1.26	2.00	0.013	1.50	0.50	1.49	1.68	0.36	3.12	2.32
A-55	CURB	5	0.70	2.00	0.70	2.00	0.013	1.50	0.50	1.35	1.68	0.35	2.92	2.07
A-59	CURB	5	0.70	2.00	0.70	2.00	0.013	1.50	0.50	0.64	1.68	0.30	1.23	1.06
A-37	TY E	4	52.00	29.00	13.00	29.00	0.013	1.50	0.50	1.82	24.14	0.16	0.42	0.55
A-39	TY E	4	0.44	25.00	0.44	25.00	0.013	1.50	0.50	2.21	24.14	0.05	0.15	0.13
A-33	CURB	5	0.43	2.00	0.36	2.00	0.013	1.50	0.50	1.00	1.68	0.28	0.79	0.62
A-35	CURB	5	0.43	2.00	0.36	2.00	0.013	1.50	0.50	0.53	1.68	0.28	0.85	0.86
A-29	TY E	4	3.38	25.00	1.36	25.00	0.013	1.50	0.50	2.76	20.90	0.22	0.45	1.29
A-23	CURB	5	0.36	2.00	0.51	2.00	0.013	1.50	0.50	0.62	1.68	0.29	1.08	1.10
A-25	CURB	5	0.36	2.00	0.51	2.00	0.013	1.50	0.50	0.78	0.71	0.38	2.95	3.44
A-17	CURB	5	1.00	2.00	0.70	2.00	0.013	1.50	0.50	6.92	1.68	0.24	0.35	0.88
A-19	CURB	5	1.00	2.00	0.70	2.00	0.013	1.50	0.50	6.37	1.68	0.23	0.27	0.91
A-9	CURB	5	0.60	2.00	0.30	2.00	0.013	1.50	0.50	0.55	1.68	0.27	0.79	0.59
A-11	CURB	5	0.66	2.00	0.30	2.00	0.013	1.50	0.50	0.36	0.71	0.33	1.80	2.05
A-6	CURB	5	0.23	2.00	0.23	2.00	0.013	1.50	0.50	0.69	1.68	0.30	1.79	0.72
A-5	CURB	5	1.23	2.00	2.00	2.00	0.013	1.50	0.50	0.51	1.68	0.28	0.56	1.04
A-68	CURB	5	0.36	2.00	0.37	2.00	0.013	1.50	0.50	0.23	1.68	0.18	0.45	0.49
A-66	CURB	5	0.36	2.00	0.37	2.00	0.013	1.50	0.50	0.21	1.68	0.17	0.47	0.40
A-44	CURB	5	1.85	2.00	0.37	2.00	0.013	1.50	0.50	0.32	1.68	0.23	0.93	0.22
A-45	CURB	5	0.70	2.00	0.70	2.00	0.013	1.50	0.50	1.01	1.68	0.33	1.45	2.34
A-43	CURB	5	0.70	2.00	0.70	2.00	0.013	1.50	0.50	0.28	0.71	0.31	1.35	1.89
A-42	CURB	5	1.85	2.00	0.37	2.00	0.013	1.50	0.50	0.31	0.71	0.32	2.25	1.21

NOTE:
A 50% CLOGGING FACTOR WAS APPLIED TO THE GRATE INLET.

ONGRADE INLET COMPUTATION DATA

INLET ID	INLET TYPE	INLET LENGTH (ft)	SLOPES		GUTTER		GRATE		POND WIDTH ALLOWED (ft)	TOTAL Q (cfs)	INTERCEPT CAPACITY (cfs)	Q BYPASS		TO INLET ID	REQUIRED LENGTH (ft)	ACTUAL LENGTH (ft)	PONDED WIDTH (ft)
			LONG %	TRANS %	n	DEPR. (ft)	WIDTH (ft)	Type				ALLOW (cfs)	ACTUAL (cfs)				
A-3	CURB	10.00	0.43	2.00	0.013	1.50	N/A	N/A	12.00	1.68	1.68	0.50	0.00	EXIST	8.37	10.00	9.50
A-7	CURB	10.00	1.00	2.00	0.013	1.50	N/A	N/A	12.00	1.43	1.43	0.50	0.00	EXIST	7.68	10.00	7.63

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 941-5581

TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

THESE PLANS ARE PRELIMINARY AND ARE BEING ISSUED FOR REVIEW BY PUBLIC AGENCIES AND OTHER PRELIMINARY PURPOSES. WHEN ISSUED IN FINAL FORM THEY WILL BE SEALED, SIGNED, AND DATED BY THE RESPONSIBLE ENGINEER.

RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

DRAINAGE HYDRAULIC COMPUTATION FOR 2-YR & 100-YR

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 34 OF 278	

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10/24/2025
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TURKEY_HH_02.dgn

CONVEYANCE DATA																			
LINK ID	NODE I.D		FLOWLINE ELEV.		SHAPE	SPAN (ft)	RISE (ft)	LENGTH (ft)	SLOPE (%)	n_VALUE	CAPACITY (cfs)	2-YEAR				100-YEAR			
	US	DS	US (ft)	DS (ft)								VELOCITY (ft/s)	Q (cfs)	HYD. GR. LINE US (ft)	HYD. GR. LINE DS (ft)	VELOCITY (ft/s)	Q (cfs)	HYD. GR. LINE US (ft)	HYD. GR. LINE DS (ft)
A-3_E-1	A-3	OUT-	48.44	48.1	Circle		2.00	33	1.03	0.013	22.95	4.26	1.68	50.10	50.10	5.20	3.32	50.10	50.10
A-117_B-31	A-117	B-31	56.8	56.75	Circle		2.00	9	0.56	0.013	16.92	4.21	3.40	57.45	57.36	2.47	7.76	59.07	59.06
B-31_B-30	B-31	B-30	53.75	53.7	Circle		2.00	23	0.22	0.013	10.62	1.08	3.40	56.82	56.81	2.47	7.75	58.95	58.92
B-28_B-27	B-28	B-27	52.27	51.7	Circle		2.00	67	0.85	0.013	61.56	4.55	32.15	56.10	55.95	10.45	73.87	57.57	56.75
B-27_B-26	B-27	B-26	51.7	50.86	Circle		2.00	99	0.85	0.013	61.42	4.62	32.69	55.74	55.50	10.66	75.32	57.44	56.18
B-26_B-25	B-26	B-25	50.86	50.04	Circle		2.00	96	0.85	0.013	61.64	4.70	33.20	55.29	55.05	10.86	76.79	56.32	55.05
B-25_B-24	B-25	B-24	50.04	49.73	Circle		2.00	37	0.84	0.013	61.05	4.77	33.71	55.06	54.97	11.07	78.27	55.48	54.97
B-24_B-23	B-24	B-23	49.73	49.48	Circle		2.00	29	0.86	0.013	61.87	5.02	35.52	55.10	55.02	11.68	82.59	55.60	55.15
A-113_B-28	A-113	B-28	55.2	54	Circle		2.00	39	3.05	0.013	39.50	9.87	8.06	56.36	56.48	5.86	18.41	58.19	57.93
A-111_B-27	A-111	B-27	53.8	53	Circle		2.00	35	2.28	0.013	34.19	0.25	0.79	56.14	56.14	0.57	1.79	56.75	56.75
A-109_B-26	A-109	B-26	53.6	52.5	Circle		2.00	46	2.37	0.013	34.83	0.27	0.84	55.70	55.70	0.60	1.90	56.18	56.18
A-106_B-25	A-106	B-25	53.27	51.2	Circle		2.00	31	6.74	0.013	58.73	6.68	0.84	55.05	55.05	8.55	1.90	55.05	55.05
A-103_B-23	A-103	B-23	52.5	51.3	Circle		2.00	39	3.06	0.013	39.60	4.05	12.71	55.22	55.10	9.26	29.09	55.80	55.15
A-101_B-23	A-101	B-23	53	51.3	Circle		2.00	39	4.34	0.013	47.14	0.41	1.29	55.15	55.15	0.94	2.94	55.16	55.15
B-23_B-22	B-23	B-22	49.48	49.25	Circle		2.00	27	0.85	0.013	61.57	6.90	48.79	54.22	54.08	16.07	113.57	56.03	55.25
C-31_B-22	C-31	B-22	51.7	50.3	Box	3.00	2.00	324	0.43	0.015	27.79	4.00	24.00	55.42	54.37	4.00	24.00	56.29	55.25
B-2_B-1	B-2	B-1	24.5	24.32	Box	8.00	6.00	94	0.19	0.015	298.75	6.62	188.46	30.36	30.32	8.04	386.16	51.99	51.69
A-119_B-30	A-119	B-30	53.72	53.7	Circle		2.00	13	0.15	0.013	8.76	0.97	3.04	56.82	56.81	2.20	6.91	58.95	58.93
A-105_B-24	A-105	B-24	51.04	51	Circle		2.00	24	0.17	0.013	9.19	0.45	1.42	54.97	54.97	1.03	3.23	54.97	54.97
A-107_B-24	A-107	B-24	51.01	51	Circle		2.00	5	0.19	0.013	9.93	0.24	0.75	54.97	54.97	0.54	1.71	54.97	54.97
B-22_C-30	B-22	C-30	48.75	48.73	Box	6.00	3.00	14	0.11	0.015	59.86	4.04	72.73	54.16	54.14	7.64	137.52	56.79	56.71
C-30_C-29	C-30	C-29	48.73	48.73	Box	6.00	3.00	3	0.13	0.015	64.67	5.41	97.30	53.91	53.90	10.76	193.77	55.67	55.63
C-29_B-21	C-29	B-21	48.73	48.59	Box	6.00	3.00	111	0.13	0.015	63.39	5.55	99.98	53.84	53.49	11.11	200.00	55.36	53.96
B-21_B-20	B-21	B-20	48.59	48.34	Box	6.00	3.00	193	0.13	0.015	64.18	5.59	100.65	53.19	52.58	11.23	202.12	56.55	54.07
B-20_C-25	B-20	C-25	48.34	48.31	Box	6.00	3.00	21	0.14	0.015	67.39	5.64	101.51	51.62	51.55	11.40	205.13	56.45	56.17
C-25_C-24	C-25	C-24	48.31	48.29	Box	6.00	3.00	14	0.14	0.015	67.19	6.18	111.19	51.42	51.36	12.66	227.87	55.46	55.23
C-24_B-19	C-24	B-19	48.29	48.26	Box	6.00	3.00	28	0.11	0.015	58.46	6.84	123.13	51.05	50.62	13.32	239.81	54.71	54.21
A-99_C-30	A-99	C-30	52	49.25	Circle		2.00	39	7.02	0.013	59.95	7.91	24.85	54.25	53.77	18.16	57.05	56.66	54.17
A-95_C-29	A-95	C-29	52	49.25	Circle		2.00	39	7.02	0.013	59.95	0.96	3.03	54.71	54.71	2.19	6.89	59.13	59.09
A-98_B-21	A-98	B-21	49.3	49.1	Circle		2.00	17	1.21	0.013	24.85	0.23	0.72	53.78	53.78	0.52	1.63	53.96	53.96
A-97_B-21	A-97	B-21	49.3	49.1	Circle		2.00	13	1.52	0.013	27.85	0.19	0.61	53.78	53.78	0.44	1.39	53.96	53.96
A-91_B-20	A-91	B-20	49	48.8	Circle		2.00	16	1.24	0.013	25.16	0.30	0.95	52.87	52.87	0.69	2.15	54.07	54.07
A-93_B-20	A-93	B-20	48.9	48.8	Circle		2.00	7	1.36	0.013	26.33	0.32	1.01	52.87	52.87	0.73	2.28	54.07	54.07
A-89_C-25	A-89	C-25	52.2	48.8	Circle		2.00	32	10.65	0.013	73.83	11.01	2.58	52.76	52.01	1.87	5.86	57.96	57.94
A-87_C-25	A-87	C-25	52	48.8	Circle		2.00	43	7.49	0.013	61.90	13.65	8.16	53.02	51.93	5.94	18.65	57.85	57.56
C-24A_C-24	C-24A	C-24	51.05	48.75	Circle		2.00	289	0.80	0.013	20.17	6.70	12.00	52.29	51.72	3.82	12.00	58.16	57.35
A-83_B-19	A-83	B-19	52	48.75	Circle		2.00	32	10.18	0.013	72.18	10.92	2.65	52.57	49.69	1.92	6.03	54.23	54.21
A-85 _B-19	A-85	B-19	52	48.75	Circle		2.00	43	7.61	0.013	62.39	16.56	15.76	53.43	49.51	11.50	36.13	55.30	54.21
A-37_A-39	A-37	A-39	48.4	48.3	Circle		2.00	40	0.25	0.013	11.31	2.64	1.82	49.13	49.12	1.31	4.13	53.01	53.00
B-11_B-9	B-11	B-9	31.13	30.81	Box	8.00	6.00	157	0.20	0.015	307.20	6.69	180.76	35.89	35.80	7.60	364.57	54.78	54.33
B-9_B-8	B-9	B-8	30.81	30.58	Box	8.00	6.00	115	0.20	0.015	304.93	6.67	182.44	35.54	35.47	7.69	368.93	54.42	54.08
B-8_B-7	B-8	B-7	30.58	30.06	Box	8.00	6.00	247	0.21	0.015	312.60	6.81	184.06	35.19	35.04	7.77	373.10	53.51	52.76
B-7_B-6	B-7	B-6	30.06	29.53	Box	8.00	6.00	252	0.21	0.015	312.30	6.81	185.14	34.78	34.63	7.84	376.23	52.18	51.41
B-6_B-5	B-6	B-5	29.53	29.45	Box	8.00	6.00	39	0.20	0.015	308.20	6.79	189.49	34.36	34.34	8.07	387.27	50.76	50.63

NOTE:

1. TOP OF PIPE AT OUTFALL WERE USED AS TAILWATER FOR 2-YEAR EVENT.
2. FOR THE 100-YEAR EVENT TAILWATER IS SET AT 51.69ft AT OUTFALL.

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

DRAINAGE HYDRAULIC COMPUTATION FOR 2-YR & 100-YR

SHEET 3 OF 5

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 35 OF 278	

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10/24/2025
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TURKEY HH_03.dgn

CONVEYANCE DATA																			
LINK ID	NODE I.D		FLOWLINE ELEV.		SHAPE	SPAN (ft)	RISE (ft)	LENGTH (ft)	SLOPE (%)	n_VALUE	CAPACITY (cfs)	2-YEAR				100-YEAR			
	US	DS	US (ft)	DS (ft)								VELOCITY (ft/s)	Q (cfs)	HYD. GR. LINE US (ft)	HYD. GR. LINE DS (ft)	VELOCITY (ft/s)	Q (cfs)	HYD. GR. LINE US (ft)	HYD. GR. LINE DS (ft)
B-5_B-32	B-5	B-32	29.45	28.94	Box	8.00	6.00	243	0.21	0.015	312.13	6.86	189.96	34.04	33.87	8.09	388.50	50.02	49.23
B-32_B-3	B-32	B-3	28.94	28.64	Box	8.00	6.00	143	0.21	0.015	312.09	6.85	189.08	33.59	33.50	8.06	387.00	48.63	48.16
A-35_A-33	A-35	A-33	49.1	49	Circle		2.00	29	0.35	0.013	13.40	2.08	0.53	49.48	49.48	0.38	1.21	53.83	53.83
A-33_B-9	A-33	B-9	49	48.95	Circle		2.00	8	0.63	0.013	17.93	3.07	1.00	49.34	49.27	0.71	2.22	54.33	54.33
A-29_B-8	A-29	B-8	48.4	48.35	Circle		2.00	7	0.69	0.013	18.82	4.28	2.76	48.98	48.88	2.00	6.29	54.18	54.18
A-23_B-7	A-23	B-7	49.1	49	Circle		2.00	33	0.30	0.013	12.46	2.06	0.62	49.40	49.30	0.45	1.41	53.33	53.33
A-27_A-25	A-27	A-25	52	49.05	Circle		2.00	33	9.06	0.013	68.09	9.04	1.62	52.44	49.84	11.56	3.68	53.22	53.24
A-25_B-7	A-25	B-7	49.05	49	Circle		2.00	8	0.65	0.013	18.22	4.00	2.37	49.58	49.49	1.71	5.38	53.30	53.30
A-15_A-17	A-15	A-17	51	50.9	Circle		2.00	22	0.45	0.013	15.24	1.84	0.26	51.52	51.52	2.35	0.59	52.93	52.93
A-21_A-19	A-21	A-19	53	51	Circle		2.00	24	8.28	0.013	65.10	12.99	6.08	53.87	51.46	16.47	13.86	54.34	53.14
A-19_A-17	A-19	A-17	50.2	50.1	Circle		2.00	25	0.40	0.013	14.31	4.42	6.37	51.47	51.46	4.63	14.53	52.83	52.73
A-17_B-6	A-17	B-6	50	49.77	Circle		2.00	103	0.22	0.013	10.70	3.62	6.92	51.17	50.94	5.02	15.78	52.25	51.75
A-13_A-9	A-13	A-9	51.2	50.1	Circle		2.00	21	5.19	0.013	51.53	3.29	0.11	51.31	50.17	4.21	0.25	51.37	51.24
A-9_B-5	A-9	B-5	49.1	48.95	Circle		2.00	44	0.34	0.013	13.25	2.07	0.55	49.38	49.23	0.39	1.24	51.24	51.24
A-11_B-5	A-11	B-5	49.05	49	Circle		2.00	8	0.61	0.013	17.71	2.25	0.36	49.26	49.20	0.26	0.82	51.24	51.24
A-7_B-3	A-7	B-3	48.26	48	Circle		2.00	58	0.45	0.013	15.17	3.04	1.43	48.68	48.42	3.63	2.66	48.83	48.72
A-31_B-9	A-31	B-9	53	48.95	Circle		2.00	62	6.56	0.013	57.94	8.81	2.16	53.51	49.21	11.23	4.90	54.32	54.33
B-3_B-4	B-3	B-4	28.64	28.4	Box	8.00	6.00	121	0.20	0.015	303.46	6.71	189.44	33.20	33.11	8.08	387.74	47.55	47.16
B-4_B-2	B-4	B-2	28.4	28.06	Box	8.00	6.00	167	0.20	0.015	306.87	6.77	189.32	31.90	31.56	8.08	387.79	46.55	46.01
A-6_B-4	A-6	B-4	48.25	48.03	Circle		2.00	78	0.28	0.013	12.02	2.08	0.69	48.58	48.36	2.64	1.57	48.74	48.52
A-5_B-32	A-5	B-32	48.7	48.5	Circle		2.00	53	0.38	0.013	13.92	2.11	0.51	48.96	48.76	2.69	1.16	49.84	49.84
A-115_B-29	A-115	B-29	55.55	54.5	Circle		2.00	40	2.60	0.013	36.51	11.67	18.54	57.10	56.48	13.52	42.49	59.55	58.13
B-30_B-29	B-30	B-29	52.76	52.6	Circle		2.00	19	0.84	0.013	61.10	0.90	6.33	56.80	56.80	2.05	14.49	58.86	58.85
B-29_B-28	B-29	B-28	52.6	52.27	Circle		2.00	42	0.79	0.013	59.14	3.47	24.51	56.49	56.43	7.95	56.19	58.23	57.93
A-80_B-51	A-80	B-51	52.21	49	Circle		2.00	25	12.68	0.013	80.56	0.00	0.00	52.21	49.23	0.00	0.00	53.97	53.97
A-79_B-52	A-79	B-52	49.86	48.2	Circle		2.00	39	4.28	0.013	46.79	5.89	0.93	50.19	48.40	0.30	0.93	53.16	53.16
A-77_B-18	A-77	B-18	48.3	48.1	Circle		2.00	16	1.23	0.013	25.10	4.31	1.41	48.71	48.43	1.02	3.20	52.62	52.62
A-81_B-18	A-81	B-18	48.2	48.1	Circle		2.00	6	1.58	0.013	28.42	4.29	1.04	48.55	48.38	0.75	2.35	52.62	52.62
B-19_B-51	B-19	B-51	42.84	42.76	Box	6.00	4.00	48	0.17	0.015	109.63	5.85	140.37	49.04	48.91	11.68	280.29	54.49	53.97
B-51_B-52	B-51	B-52	42.76	42.42	Box	6.00	4.00	185	0.18	0.015	115.17	5.84	140.12	48.59	48.09	11.67	280.01	55.17	53.16
B-52_B-18	B-52	B-18	42.42	42.34	Box	6.00	4.00	43	0.19	0.015	115.49	5.84	140.10	47.77	47.65	11.66	279.90	53.09	52.62
B-18_B-17	B-18	B-17	42.34	42.23	Box	6.00	4.00	59	0.19	0.015	116.27	5.91	141.92	47.32	47.15	11.85	284.47	53.92	53.26
B-17_B-16	B-17	B-16	42.23	42.2	Box	6.00	4.00	19	0.15	0.015	105.54	6.12	146.88	45.23	44.85	12.36	296.55	52.56	52.32
B-54_B-40	B-54	B-40	35.01	34.9	Box	8.00	6.00	83	0.13	0.015	247.25	5.41	147.95	40.46	40.44	6.25	299.79	53.43	53.27
B-40_B-55	B-40	B-55	34.9	34.83	Box	8.00	6.00	56	0.13	0.015	240.80	5.30	147.82	40.32	40.30	6.24	299.68	53.57	53.46
B-55_C-15	B-55	B-101	34.83	34.79	Box	8.00	6.00	25	0.16	0.015	3016.63	5.89	156.23	40.15	40.14	6.66	319.78	53.56	53.51
B-101_B-15	B-101	B-15	34.79	34.77	Box	8.00	6.00	18	0.11	0.015	160.43	5.24	168.08	40.10	40.09	6.91	331.50	53.42	53.38
A-73_A-71	A-73	A-71	48.41	48.3	Circle		2.00	14	0.78	0.013	19.95	2.83	0.59	49.04	49.04	0.43	1.35	53.00	53.00
A-69_B-54	A-69	B-54	51.2	48.6	Circle		2.00	26	9.84	0.013	70.96	6.05	0.39	51.41	48.71	0.28	0.89	53.41	53.41
A-68 _B-40	A-68	B-40	48.5	48.3	Circle		2.00	16	1.23	0.013	25.10	2.51	0.23	48.67	48.44	0.17	0.53	53.27	53.27
A-66_B-40	A-66	B-40	48.5	48.3	Circle		2.00	15	1.36	0.013	26.34	2.50	0.21	48.65	48.43	0.15	0.47	53.27	53.27
A-63_B-55	A-63	B-55	51.8	49	Circle		2.00	75	3.74	0.013	43.72	10.42	7.54	52.78	49.56	5.49	17.23	53.90	53.46
A-65_B-55	A-65	B-55	50.5	49	Circle		2.00	40	3.78	0.013	43.99	7.50	2.41	51.04	49.32	1.75	5.49	53.48	53.46
A-71_B-53	A-71	B-53	48.3	48	Circle		2.00	25	1.19	0.013	24.70	4.78	2.07	48.80	48.40	1.50	4.71	52.95	52.94

NOTE:

1. TOP OF PIPE AT OUTFALL WERE USED AS TAILWATER FOR 2-YEAR EVENT.
2. FOR THE 100-YEAR EVENT TAILWATER IS SET AT 51.69ft AT OUTFALL.

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TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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NOT INTENDED FOR CONSTRUCTION

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

DRAINAGE HYDRAULIC COMPUTATION FOR 2-YR & 100-YR

SHEET 4 OF 5

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 36 OF 278	

Rohit mg

10/27/2025
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TURKEY_HH_04.dgn

CONVEYANCE DATA																			
LINK ID	NODE I.D		FLOWLINE ELEV.		SHAPE	SPAN (ft)	RISE (ft)	LENGTH (ft)	SLOPE (%)	n_VALUE	CAPACITY (cfs)	2-YEAR				100-YEAR			
	US	DS	US (ft)	DS (ft)								VELOCITY (ft/s)	Q (cfs)	HYD. GR. LINE US (ft)	HYD. GR. LINE DS (ft)	VELOCITY (ft/s)	Q (cfs)	HYD. GR. LINE US (ft)	HYD. GR. LINE DS (ft)
A-67_B-53	A-67	B-53	48.1	48	Circle		2.00	7	1.39	0.013	26.70	3.15	0.43	48.32	48.18	0.31	0.97	52.94	52.94
B-16_B-53	B-16	B-53	35.27	35.21	Box	8.00	6.00	51	0.12	0.015	233.67	5.18	146.78	40.76	40.75	6.18	296.44	53.04	52.94
B-53_B-54	B-53	B-54	35.21	35.01	Box	8.00	6.00	155	0.13	0.015	245.01	5.38	148.54	40.63	40.58	6.27	300.77	53.71	53.41
B-15_B-14	B-15	B-14	34.77	34.6	Box	8.00	6.00	129	0.13	0.015	247.37	5.65	175.50	39.88	39.81	7.27	349.17	52.84	52.50
B-14_B-57	B-14	B-57	34.6	34.41	Box	8.00	6.00	148	0.13	0.015	243.93	5.60	176.31	39.61	39.52	7.33	351.62	53.88	53.49
B-57_B-58	B-57	B-58	34.41	34.35	Box	8.00	6.00	47	0.13	0.015	244.06	5.61	176.67	39.31	39.28	7.36	353.09	53.95	53.82
A-49_B-58	A-49	B-58	51.8	49	Circle		2.00	31	9.00	0.013	67.87	8.66	1.41	52.21	49.20	1.02	3.21	53.83	53.82
A-51_B-58	A-51	B-58	51	49	Circle		2.00	40	4.98	0.013	50.50	4.15	0.25	51.17	49.10	0.18	0.56	53.82	53.82
A-53_B-57	A-53	B-57	51.2	48.75	Circle		2.00	38	6.51	0.013	57.73	7.96	1.56	51.63	48.98	1.13	3.55	53.50	53.49
A-55_B-14	A-55	B-14	47.5	47.3	Circle		2.00	16	1.23	0.013	25.10	4.26	1.35	47.90	47.62	0.98	3.07	52.50	52.50
A-59_B-14	A-59	B-14	47.5	47.3	Circle		2.00	13	1.51	0.013	27.79	3.66	0.64	47.77	47.51	0.46	1.46	52.50	52.50
A-61_B-15	A-61	B-15	51	49.15	Circle		2.00	37	5.03	0.013	50.76	10.74	5.80	51.85	49.63	4.22	13.24	53.51	53.38
A-57_B-15	A-57	B-15	51.2	49.1	Circle		2.00	28	7.56	0.013	62.20	10.09	2.89	51.79	49.40	2.09	6.58	53.40	53.38
A-45_B-12	A-45	B-12	48.6	48.4	Circle		2.00	16	1.23	0.013	25.10	3.90	1.01	48.95	48.68	0.73	2.28	53.29	53.29
A-43_B-12	A-43	B-12	48.45	48.4	Circle		2.00	8	0.67	0.013	18.47	2.15	0.28	48.63	48.57	0.20	0.63	53.29	53.29
A-42_B-41	A-42	B-41	48.35	48.3	Circle		2.00	8	0.67	0.013	18.47	2.21	0.31	48.54	48.48	0.22	0.70	53.25	53.25
A-44_B-41	A-44	B-41	48.5	48.3	Circle		2.00	16	1.23	0.013	25.10	2.75	0.32	48.69	48.46	0.23	0.71	53.25	53.25
A-47_B-100	A-47	B-100	50.6	49.4	Circle		2.00	28	4.35	0.013	47.16	5.95	0.95	50.93	49.60	0.68	2.15	53.84	53.84
B-58_B-100	B-58	B-100	34.35	34.29	Box	8.00	6.00	45	0.13	0.015	248.11	5.68	177.72	39.03	39.00	7.41	355.78	53.70	53.58
B-100_B-12	B-100	B-12	34.29	34.18	Box	8.00	6.00	88	0.13	0.015	240.95	5.56	178.20	38.98	38.92	7.44	357.13	53.53	53.29
B-12_B-41	B-12	B-41	34.18	34.01	Box	8.00	6.00	128	0.13	0.015	247.91	5.69	178.66	38.64	38.53	7.47	358.62	53.61	53.25
B-41_B-11	B-41	B-11	34.01	33.9	Box	8.00	6.00	89	0.12	0.015	239.08	5.53	178.35	38.04	37.93	7.47	358.41	54.51	54.26
A-41_B-11	A-41	B-11	52.4	50.4	Circle		2.00	36	5.52	0.013	53.13	7.41	1.49	52.82	50.63	9.48	3.38	54.27	54.26
A-39_B-11	A-39	B-11	48.3	48	Circle		2.00	67	0.45	0.013	15.15	3.44	2.21	48.82	48.52	1.59	4.99	54.29	54.26
C-16A_B-101	C-16 A	B-101	49.5	48.91	Circle		2.00	299	0.20	0.013	10.05	3.82	12.00	51.30	50.15	3.82	12.00	54.41	53.57
A-15A_A-15B	A-15A	A-15B	51.3	51.1	Circle		2.00	55	0.36	0.013	13.64	0.00	0.00	51.30	51.10	0.00	0.00	51.30	51.10

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HOUSTON PUBLIC WORKS

TURKEY GULLY

DRAINAGE HYDRAULIC COMPUTATION FOR 2-YR & 100-YR

SHEET 5 OF 5

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 37 OF 278	

Printing
10/24/2025
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TRAFFIC SIGNAL GENERAL NOTES:

1. ALL EQUIPMENT / MATERIALS AND CONSTRUCTION SHALL MEET OR EXCEED THE REQUIREMENTS CONTAINED IN THE CURRENT CITY OF HOUSTON STANDARD SPECIFICATIONS AND STANDARD DRAWINGS, THE PROJECT SPECIFIC SPECIFICATIONS AND THE PLANS.

2. ALL ELECTRICAL WORK SHALL BE IN CONFORMANCE WITH THE PROVISIONS AND REQUIREMENTS OF THE CITY ELECTRICAL CODE.

3. ALL SIGNS SHALL BE MANUFACTURED IN ACCORDANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

4. THE CONTRACTOR SHALL ARRANGE THE INSTALLATION OF SIGNALS, POLES AND CONDUIT SO AS TO PERMIT THE CONTINUOUS MOVEMENT OF TRAFFIC IN ALL DIRECTIONS AT ALL TIMES. THE CONTRACTOR SHALL NOT CLOSE MORE THAN ONE LANE OF A ROADWAY AT ONE TIME WITHOUT PRIOR APPROVAL OF THE CITY.

5. THE CONTRACTOR SHALL CLEAN UP AND REMOVE FROM THE WORK AREA ALL LOOSE MATERIAL RESULTING FROM CONTRACT OPERATIONS EACH DAY PRIOR TO WORK BEING SUSPENDED FOR THAT DAY.

6. THE CONTRACTOR SHALL CONTACT THE ENGINEER AND/OR THE APPROVED CITY OF HOUSTON REPRESENTATIVE TO ARRANGE FOR METER AND ELECTRICAL SERVICE CONNECTION FROM THE POWER COMPANY.

7. ALL PEDESTRIAN PUSH BUTTON ASSEMBLIES SHALL MEET ADA REQUIREMENTS. THE SIGNS THAT SHALL BE USED ARE IDENTIFIED IN THE TMUTCD AS R10-3E.

8. OVERHEAD STREET NAME SIGNS SHALL BE INSTALLED SUCH THAT THE BOTTOM OF THE SIGN IS NO LESS THAN 17 FEET ABOVE THE ROADWAY PAVEMENT OR NO LESS THAN 16 FEET ABOVE THE FINISHED GRADE BEYOND THE SHOULDER.

9. THE LOCATION OF EACH NEW POLE FOUNDATION, PULL BOX, CONTROLLER CABINET FOUNDATION, UPS CABINET FOUNDATION AND ELECTRIC SERVICE PEDESTAL FOUNDATION SHALL BE MARKED IN THE FIELD AS SHOWN ON THE PLANS. THE EXACT LOCATION SHALL BE APPROVED BY THE ENGINEER AND/OR THE APPROVED CITY OF HOUSTON REPRESENTATIVE PRIOR TO BEGINNING INSTALLATION OF THE FOUNDATION.

10. THE TOP OF THE POLE FOUNDATION SHALL BE LEVEL WITH THE FINISHED GRADE. IF THE SLOPE OR SHOULDER DROPS OFF FROM FINISHED GRADE, THE CONTRACTOR SHALL GRADE AROUND POLE FOUNDATION. THE TOP OF THE FOUNDATION SHALL EXTEND NO MORE THAN 4 INCHES ABOVE SURROUNDING GRADE.

11. ALL CONCRETE USED FOR TRAFFIC SIGNAL POLE AND CABINET FOUNDATIONS SHALL BE CLASS ?A?(REFER TO THE CITY OF HOUSTON SPECIFICATION FOR CONCRETE).

12. MAST ARM AND STRAIN POLES SHALL NOT BE INSTALLED ON THE FOUNDATIONS LESS THAN SEVEN DAYS AFTER THE PLACEMENT OF THE CONCRETE FOR THE FOUNDATION.

13. ANCHOR BOLTS FOR SIGNAL POLES SHALL BE SET SO THAT TWO ARE IN COMPRESSION AND TWO ARE IN TENSION. PRIOR TO THE INSTALLATION OF THE NUT, THE THREADS OF THE ANCHOR BOLT SHALL BE COATED WITH PIPE JOINT COMPOUND.

14. ALL UNDERGROUND CONSTRUCTION (CONDUIT, FOUNDATIONS AND PULL BOXES) FOR THE INTERSECTION SHALL BE COMPLETED PRIOR TO THE INSTALLATION OF POLES, SIGNALS AND CABINETS. THE CONTRACTOR SHALL NOT PROCEED TO ABOVE GROUND WORK UNTIL THE ENGINEER AND/OR APPROVED CITY OF HOUSTON REPRESENTATIVE HAVE CONFIRMED THAT THE MATERIALS FOR A COMPLETE INSTALLATION ARE AVAILABLE.

15. UNDERGROUND CONDUIT FOR SIGNAL CABLE SHALL BE SCHEDULE 80 ELECTRICAL PVC CONDUIT OF THE DIAMETER SHOWN ON THE PLANS, UNLESS OTHERWISE NOTED. ALL COUPLINGS AND CONNECTIONS SHALL BE TIGHT AND WATERPROOF.

16. ALL ABOVE GROUND CONDUIT FOR SIGNAL CABLE AND INTERCONNECT MEDIA SHALL BE HOT DIPPED GALVANIZED STEEL RIGID METAL CONDUIT OF THE DIAMETERS SHOWN ON THE PLANS, UNLESS OTHERWISE NOTED. ALL COUPLINGS AND CONNECTIONS SHALL BE TIGHT AND WATERPROOF.

17. ONLY NEW CONDUIT AND CABLE SHALL BE INSTALLED.

18. CONDUIT INSTALLED UNDER EXISTING PAVED DRIVEWAYS, ROADWAYS OR SIDEWALKS, WHICH ARE NOT SCHEDULED TO BE RECONSTRUCTED AS PART OF THIS PROJECT, SHALL BE INSTALLED BY MEANS OF BORING. THE CONTRACTOR SHALL NOT CUT OPEN ANY STREET OR DRIVEWAY FOR CONDUIT INSTALLATION WITHOUT THE PRIOR APPROVAL OF THE ENGINEER AND/OR THE APPROVED CITY OF HOUSTON REPRESENTATIVE.

19. CONDUIT NOT PLACED UNDER PAVED DRIVEWAYS, ROADWAY PAVEMENT OR SIDEWALK MAY BE PLACED BY CUTTING A TRENCH, INSTALLING THE CONDUIT AND BACKFILLING. ANY TRENCHING FOR CONDUIT WIDER THAN THEE (3) INCHES SHALL BE RESODDED.

20. PULL BOXES SHALL NOT BE INSTALLED WITHIN CONCRETE CURB ACCESS RAMPS. IN ADDITION, ANY PULL BOXES INSTALLED BEHIND CURBS SHALL BE INSTALLED BETWEEN THE CURB AND THE PROPOSED / FUTURE SIDEWALK OR BEYOND THE PROPOSED / FUTURE SIDEWALK. AN EXCEPTION TO THIS NOTE WOULD BE PULL BOXES INSTALLED IN A MEDIAN. ANY PULL BOXES INSTALLED ALONG AN UNCURBED ROADWAY SHALL BE INSTALLED ADJACENT TO, BUT NOT WITHIN, THE SHOULDER.

21. A 5/8 IN. X 10 FT. GROUND ROD SHALL BE INSTALLED IN THE PROPOSED PULL BOXES. TWO GROUND ROD CLAMPS SHALL BE FURNISHED FOR GROUNDING THE GROUND WIRE.

22. ALL CONDUITS SHALL BE CLEANED BY COMPRESSED AIR AND A PROPERLY SIZED CONDUIT PISTON OR MANDREL SHALL BE PULLED THROUGH THE CONDUIT PRIOR TO CABLE INSTALLATION.

23. WHEN PULLING TRAFFIC SIGNAL SYSTEM CABLES THROUGH CONDUIT, THE CABLES SHALL BE LUBRICATED WITH A LUBRICANT NORMALLY USED FOR THIS PURPOSE. ANY ABRASION TO ANY CONDUCTOR INSULATION WHICH OCCURS WHILE PULLING CABLE FOR THE TRAFFIC SIGNAL SYSTEM WILL BE CAUSE FOR THE IMMEDIATE REJECTION OF THE CABLE. IF THIS OCCURS, THE CONTRACTOR SHALL REMOVE AND REPLACE THE ENTIRE CABLE RUN AT THEIR EXPENSE.

24. A MINIMUM OF THREE (3) FEET OF EACH WIRE AND CABLE MEASURED FROM THE TOP OF THE PULL BOX SHALL BE LEFT IN EACH PULL BOX AND AT EACH POLE BASE.

25. ALL CABLES SHALL BE STRIPPED, FORMED AND TERMINATED IN A NEAT AND UNIFORM MANNER WHETHER IN THE SIGNAL HEAD OR CONTROLLER CABINET. ALL CABLE SHALL BE BROUGHT INTO THE TERMINAL HOUSING OF SIGNALS AND/OR CONTROLLER CABINETS AND A SUFFICIENT LENGTH OF CABLE SHALL BE LEFT SO THAT ALL TERMINAL CONNECTIONS MAY BE MADE WITHOUT THE NECESSITY OF SPLICING THE CABLE.

26. THE HIGH VOLTAGE CABLES SHOULD BE SEPARATED FROM THE LOW VOLTAGE CABLES AS MUCH AS POSSIBLE.

27. NO LOOP DETECTOR SHALL BE CUT IN A PARALLEL EXPANSION JOINT. LOOPS CUT ACROSS EXPANSION JOINTS SHALL HAVE A SLACK IN THE CABLE FOR EXPANSION.

28. NO SPLICES SHALL BE ALLOWED IN THE ROADWAY DETECTION LOOP CABLE EXCEPT AT THE PULL BOX ADJACENT TO LOOP. THE DETECTOR LEAD-IN CABLE SHALL NOT BE SPLICED.

29. DETECTION LOOP SAW CUTS SHALL BE FLUSHED WITH WATER UNDER PRESSURE AND THEN DRIED WITH AIR UNDER PRESSURE.

30. THERE SHALL BE NO SPLICING IN CONDUCTORS EXCEPT FOR THE NECESSARY SPLICE BETWEEN ROADWAY LOOP WIRE AND DETECTOR LEAD-IN CABLE IN THE PULL BOX ADJACENT TO THE DETECTOR. THESE SPLICES SHALL BE WATERPROOF AND SHALL BE IN COMPLIANCE WITH THE CITY OF HOUSTON STANDARD DRAWINGS FOR TRAFFIC SIGNAL CONSTRUCTION. THESE SPLICES SHALL BE MADE BY THE CONTRACTOR. DO NOT GROUND THE CABLE SHIELD AT THE PULL BOX.

31. TWO #14 AWG-XHHW CONDUCTORS SHALL BE INSTALLED FROM EACH LUMINAIRE TO THE CONTROLLER CABINET, LEAVING THREE FEET OF SLACK FOR EACH CONDUCTOR (MEASURED FROM THE TOP OF THE PULL BOX) IN EACH PULL BOX. ROUTE FOUR CONDUCTORS TO THE LUMINAIRE WITH THE PHOTOELECTRIC CELL. AN IN-LINE FUSE SHALL BE INSTALLED FOR EACH LUMINAIRE IN THE ASSOCIATED PULL BOX.

32. THE EMERGENCY VEHICLE PRE-EMPTION SENSOR CABLE SHALL BE OPTICOM DETECTOR CABLE MODEL NO. 138. THE CABLE SHALL NOT BE SPLICED.

33. ALL VEHICLE AND PEDESTRIAN INDICATIONS SHALL BE LED.

34. THE CONTRACTOR SHALL BAG ALL NEWLY INSTALLED VEHICULAR AND/OR PEDESTRIAN TRAFFIC SIGNAL HEADS WITH BURLAP OR OTHER APPROVED MATERIAL UNTIL THE FINAL INSPECTION AND ACCEPTANCE BY THE CITY TRAFFIC ENGINEER AND/OR APPROVED CITY OF HOUSTON REPRESENTATIVE. THE BURLAP OR OTHER APPROVED MATERIAL/DEVICE SHALL COMPLETELY COVER THE TRAFFIC SIGNAL HEAD AND SHALL OBSCURE THE VIEW OF THE TRAFFIC SIGNAL INDICATIONS SO THAT THEY CANNOT BE SEEN UNTIL THE TRAFFIC SIGNAL IS PLACED IN OPERATION. DURING CONSTRUCTION, THE TRAFFIC SIGNAL WILL BE DE-ENERGIZED WHILE NOT IN USE FOR TESTING.

35. THE TRAFFIC SIGNAL OPERATION AT EXISTING SIGNALIZED INTERSECTIONS SHALL BE MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT.

36. ALL STRIPING AND PAVEMENT MARKINGS ARE TO BE DONE UNDER THIS CONTRACT AND SHALL BE IN PLACE PRIOR TO THE ACTIVATION OF THE TRAFFIC SIGNAL. THE CONTRACTOR SHALL VERIFY THE LOCATION OF ALL STOP LINES PRIOR TO THE INSTALLATION OF LOOP DETECTORS.

37. ALL CONSTRUCTION SIGNING AND CONSTRUCTION TRAFFIC CONTROL DEVICES SHALL BE IN CONFORMANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.

38. FOR INSTALLATION OF THE GPS ANTENNA, SEE THE ?GPS ANTENNA INSTALLATION DETAIL? ON STANDARD SHEETS.

39. THE CONTRACTOR SHALL LOCATE/EXPOSE ALL UTILITIES THAT MAY BE INCONFLICT WITH SIGNAL POLE LOCATIONS BY HAND EXCAVATION PRIOR TO CONSTRUCTION. IF UTILITIES ARE IN CONFLICT THE ENGINEER WILL BE CONTACTED TO FIND AN ALTERNATE LOCATION FOR THE SIGNAL POLES.

40. THE MOUNTING LOCATION FOR THE UNINTERRUPTABLE POWER SUPPLY UNIT (UPS) ON THE CONTROLLER CABINET SHALL BE DETERMINED BY THE ENGINEER PRIOT TO THE INSTALLATION OF THE CABINET FOUNDATION.

41. CONTRACTOR TO FURNISH, INSTALL, AND PROGRAM UNINTERRUPTABLE POWER SUPPLY UNIT (UPS) PER THE SPECFICATIONS AND DETAILS SHOWN ON THE STANDARD SHEET.

42. CONTRACTOR SHALL MAINTAIN AND KEEP OPERATIONAL ALL INTELLIGENT TRANSPORTAION SYSTEMS (ITS) INFRASTRUCTRE DURING CONSTRUCTION.

RESPONSIBILITIES:

1. THE CONTRACTOR SHALL SUPPLY AND INSTALL THE FOLLOWING EQUIPMENT AND MATERIALS AS SPECIFIED IN THE PLANS: STEEL POLE ANCHOR BOLTS (WITH NUTS AND WASHERS), CONCRETE POLE FOUNDATIONS WITH REINFORCEMENT (WHERE SPECIFIED), TRAFFIC SIGNAL CONTROLLER CABINET(S) WITH CONTROLLER(S) AND ALL AUXILIARY EQUIPMENT, CONTROLLER CABINET CONCRETE FOUNDATION(S), CONCRETE PULL BOXES, ELECTRICAL CONDUIT, GROUND RODS AND CONNECTORS, BARE BOND WIRE AND ALL OTHER CONDUCTORS, POLES, MAST ARMS, TRAFFIC SIGNALS AND MOUNTING ASSEMBLIES, PEDESTRIAN SIGNALS AND MOUNTING ASSEMBLIES, PEDESTRIAN PUSH BUTTON STATIONS WITH SIGNS, LUMINARIES, PHOTOCELLS, ELECTRIC SERVICE PEDESTAL(S) AND CONCRETE FOUNDATION(S), VIDEO DETECTION SYSTEM EQUIPMENT, VEHICLE DETECTION LOOPS, AND ALL OTHER APPURTENANCES NECESSARY FOR THE OPERATION OF THE TRAFFIC SIGNAL INSTALLATION(S), EXCEPT AS MODIFIED IN THE PLANS.

2. THE CONTRACTOR SHALL INSTALL THE FOLLOWING EQUIPMENT AND MATERIALS AS SPECIFIED IN THE PLANS: STEEL POLE ANCHOR BOLTS (WITH NUTS AND WASHERS), CONCRETE POLE FOUNDATIONS WITH REINFORCEMENT (WHERE SPECIFIED), TRAFFIC SIGNAL CONTROLLER CABINET(S) WITH CONTROLLER(S) AND ALL AUXILIARY EQUIPMENT, CONTROLLER CABINET CONCRETE FOUNDATION(S), CONCRETE PULL BOXES, ELECTRICAL CONDUIT, GROUND RODS AND CONNECTORS, BARE BOND WIRE AND ALL OTHER CONDUCTORS, POLES, MAST ARMS, TRAFFIC SIGNALS AND MOUNTING ASSEMBLIES, PEDESTRIAN SIGNALS AND MOUNTING ASSEMBLIES, PEDESTRIAN PUSH BUTTON STATIONS WITH SIGNS, LUMINARIES, PHOTOCELLS, ELECTRIC SERVICE PEDESTAL(S) AND CONCRETE FOUNDATION(S), VIDEO DETECTION SYSTEM EQUIPMENT, VEHICLE DETECTION LOOPS, AND ALL OTHER APPURTENANCES NECESSARY FOR THE OPERATION OF THE TRAFFIC SIGNAL INSTALLATION(S), EXCEPT AS MODIFIED IN THE PLANS.

3. THE CONTRACTOR SHALL DELIVER THE CONTROLLER CABINET(S) WITH THE CONTROLLER(S) AND AUXILIARY EQUIPMENT SPECIFIED IN THE PLANS TO THE CITY OF HOUSTON TRAFFIC OPERATIONS CENTER, 2200 PATTERSON STREET FOR TESTING, A MINIMUM OF THREE WEEKS PRIOR TO THE INSTALLATION(S) AT THE INTERSECTION(S). CONTACT THE TRAFFIC SIGNAL INSPECTOR (713- 881-3172 OR CITYTRAFFICINSPECTOR@HOUSTONTRANSTAR.ORG) AT LEAST 2 WORKING DAYS PRIOR TO THE DELIVERY OF THE CONTROLLER CABINET(S) TO THE CITY OF HOUSTON. THE CONTRACTOR SHALL PICK UP AND TRANSPORT THE CONTROLLER CABINET(S) FROM THE CITY OF HOUSTON TRAFFIC OPERATIONS CENTER TO THE INTERSECTION(S) AFTER CITY OF HOUSTON STAFF HAS TESTED THE EQUIPMENT AND APPROVED IT FOR INSTALLATION.

4. THE CONTRACTOR SHALL INSTALL EACH TRAFFIC CONTROLLER CABINET ON ITS FOUNDATION AND ROUTE ALL OF THE CONDUCTORS INTO THE CONTROLLER CABINET. CONDUCTORS SHALL BE TERMINATED IN THE CABINET BY THE CONTRACTOR UNDER THE OBSERVATION OF AN APPROVED CITY OF HOUSTON REPRESENTATIVE.

5. THE CONTRACTOR SHALL CAREFULLY DISASSEMBLE AND SALVAGE ALL EXISTING TRAFFIC SIGNAL AND STREET LIGHTING EQUIPMENT THAT IS NOT TO REMAIN OR BE RELOCATED. ALL OF THE EQUIPMENT SHALL BE RETURNED TO THE CITY OF HOUSTON TRAFFIC OPERATIONS CENTER, 2200 PATTERSON STREET. THE EQUIPMENT SHALL BE UNLOADED BY THE CONTRACTOR. CONTACT THE TRAFFIC SIGNAL INSPECTOR (713-881-3172 OR CITYTRAFFICINSPECTOR@HOUSTONTRANSTAR.ORG) AT LEAST 2 WORKING DAYS PRIOR TO RETURNING THE EQUIPMENT.

6. THE CONTRACTOR SHALL SALVAGE AND REPLANT ANY LANDSCAPING VEGETATION THAT MAY BE DAMAGED BY CONSTRUCTION ACTIVITIES. THE CONTRACTOR SHALL OBTAIN PRIOR APPROVAL FROM AN APPROVED CITY OF HOUSTON REPRESENTATIVE BEFORE ANY PLANTS ARE MOVED.

7. THE CONTRACTOR SHALL REPAIR/RESTORE ANY LANDSCAPE IRRIGATION COMPONENTS DAMAGED BY CONSTRUCTION ACTIVITY TO THEIR ORIGINAL CONDITION.

8. THE LOCATION OF PUBLIC AND PRIVATE UTILITIES IS SHOWN IN AN APPROXIMATE LOCATION ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATIONS BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES TO UTILITIES THAT ARE THE RESULT OF HIS FAILURE TO EXACTLY LOCATE AND PRESERVE UNDERGROUND FACILITIES.

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY TRAFFIC SIGNAL GENERAL NOTES

SHEET 1 OF 1

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NTS	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 38 OF 278	

Jackson
10/23/2025
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S10-GEN-NTS-01.dgn

PROPOSED MAST ARM SIGNS

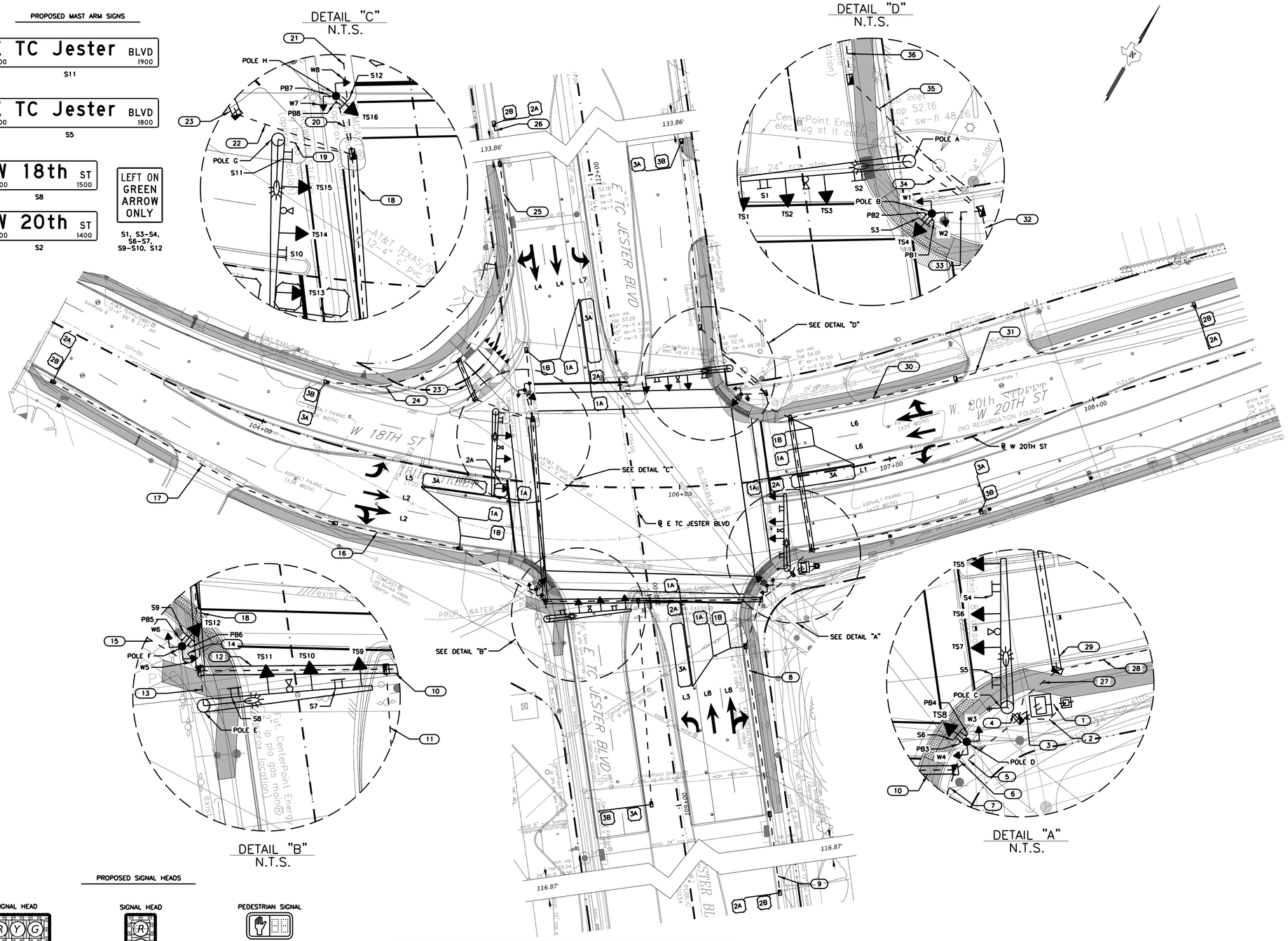
E TC Jester BLVD 1800 1900
S11

E TC Jester BLVD 1900 1800
S5

W 18th ST 1400 1500
S8

W 20th ST 1500 1400
S2

LEFT ON GREEN ARROW ONLY
S1, S3-S4, S6-S7, S9-S10, S12



PROPOSED SIGNAL HEADS

SIGNAL HEAD (R Y G)
TS2-TS3, TS6-TS7
TS10-TS11, TS14-TS15

SIGNAL HEAD (R Y G)
TS4, TS8, TS12, TS16

PEDESTRIAN SIGNAL
W1 - W8

SIGNAL HEAD (R Y G)
TS1, TS5, TS9, TS13

POLE STATION AND OFFSET TABLE

POLE	ROADWAY	STATION	OFFSET	SIDE	MAST ARM LENGTH
POLE A	E T C JESTER BLVD	111+00.60	52.36	RT	40
POLE B	E T C JESTER BLVD	110+87.66	55.94	RT	
POLE C	E T C JESTER BLVD	110+03.54	66.07	RT	35
POLE D	E T C JESTER BLVD	109+96.81	55.49	RT	
POLE E	E T C JESTER BLVD	109+95.57	49.20	LT	40
POLE F	E T C JESTER BLVD	110+10.13	52.38	LT	
POLE G	E T C JESTER BLVD	110+95.58	59.66	LT	40
POLE H	E T C JESTER BLVD	111+03.86	44.74	LT	

PROPOSED TRAFFIC SIGNAL PHASING

ϕ2 & ϕ5	ϕ2 & ϕ6	ϕ1 & ϕ6	ϕ3 & ϕ8	ϕ4 & ϕ8	ϕ4 & ϕ7
ϕ5, ϕ2, ϕ2 PED	ϕ6 PED, ϕ6, ϕ2, ϕ2 PED	ϕ6 PED, ϕ6, ϕ1	ϕ3 ϕ8, ϕ8 PED	ϕ8, ϕ4 PED, ϕ8 PED, ϕ4	ϕ4 PED, ϕ4 ϕ7

LEGEND

- PROP SIGNAL POLE AND MAST ARM
- PROP TRAFFIC SIGNAL HEAD
- PROP ILLUMINATION
- PROP OPTICOM
- PROP STREET NAME SIGN
- PROP PEDESTRIAN POLE
- PROP PEDESTRIAN PUSH BUTTON
- PROP WIRELESS ANTENNA
- PROP PEDESTRIAN SIGNAL HEAD
- PROP METERED POWER PEDESTAL
- PROP PULL BOX
- PROP TRAFFIC SIGNAL CONTROLLER W/BBU
- DIRECTION OF TRAFFIC FLOW
- ROW
- CONDUIT (TRENCH)
- CONDUIT (BORE)
- WIRE RUN DESIGNATION (X)
- 6'X 6' LOOP DETECTOR
- 6'X 10' LOOP DETECTOR
- 6'X 30' LOOP DETECTOR

0 20 40
SCALE IN FEET

NOTES:

1. LOCATIONS OF ABOVEGROUND AND UNDERGROUND UTILITIES ARE APPROXIMATE. VERIFY AND DETERMINE THE EXACT LOCATIONS PRIOR TO SIGNAL CONSTRUCTION.
2. VERIFY SIGNAL POLE FOUNDATION LOCATIONS WITH THE ENGINEER PRIOR TO INSTALLATION.
3. REPAIR ANY DAMAGES TO EXISTING UTILITIES OR OTHER APPURTENANCES CAUSED BY THE CONSTRUCTION AT NO ADDITIONAL COST.
4. REFER TO PROPOSED TRAFFIC SIGNAL DETAILS FOR ADDITIONAL INFORMATION.
5. MAINTAIN EXISTING COMMUNICATIONS SYSTEMS.
6. VERIFY POTENTIAL CONFLICTS WITH OVERHEAD POWER LINES PRIOR TO ORDERING MAST ARM POLES AND INSTALLING LUMINAIRES ON SIGNAL POLES.

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TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

PROPOSED SIGNAL LAYOUT

SHEET 1 OF 1

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1" = 40'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 39 OF 278	

Jacksons
10/23/2025
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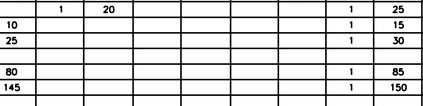
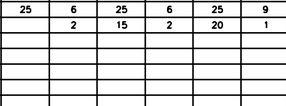
E TC JESTER STREET AT W 20TH STREET																										
RUN NO.	CONDUIT								CONDUCTORS				TRAY CABLE		CABLES								SAWCUT		OPTICOM *	
	PVC								POWER				LUMINAIRE		PEDESTRIAN				SIGNAL		LOOP LEAD-IN		LOOP WIRE			
	2" (SCHD 80)		3" (SCHD 80)		4" (SCHD 80)				#6 BARE		#6 INSULATED		#14/4C TRAYCABLE		#14/3C		#14/5C		#14/7C		#14/2C		#14 INSULATED		FOR CONTRACTOR INFORMATION ONLY	
	16711-205		16711-306		16711-406		16711-405						16720-405		16720-300		16720-505		16720-705		16720-206		16727-100			
	NO.	TRENCH	NO.	TRENCH	NO.	TRENCH	NO.	BORE	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH	NO.	LENGTH
	EA	LF	EA	LF	EA	LF	EA	LF	EA	LF	EA	LF	EA	LF	EA	LF	EA	LF	EA	LF	EA	LF	EA	LF	EA	LF
1	1	10							1	15	2	15														
2	1	15							1	20			4	20												
3					2	10			2	15					8	15	8	15	16	15	36	15			4	15
4			1	5					1	10			1	40					3	40					1	40
5			1	20					1	25			2	25	6	25	6	25	9	25	25	25			2	25
6	1	10							1	15					2	15	2	20	1	25						
7	1	25							1	30											7	30				
7-LW																							1	325		
8	1	80							1	85											2	85				
9	1	145							1	150											2	150				
9-LW																							1	90		
10							1	60	1	65			2	65	4	65	4	65	8	65	18	65			2	65
11	1	100							1	105											2	105				
11-LW																							1	100		
12							1	45	1	50			2	50	4	50	4	50	8	50	16	50			2	50
13			1	10					1	15			1	45					3	45					1	45
14	1	10							1	15					2	15	2	20	1	25						
15	1	50							1	55											7	55				
15-LW									1	330													1	330		
16	1	60							1	65											2	65				
17	1	150							1	155											2	155				
17-LW																							1	90		
18							1	90	1	95			1	95	2	95	2	95	4	95	9	95			1	95
19			1	20					1	25			1	55					3	55					1	55
20	1	15							1	20					2	20	2	25	1	30						
21	1	35							1	40											5	40				
22	1	30							1	35											4	35				
23	1	20							1	25											4	25				
24	1	65							1	70											2	70				
24-LW																							1	90		
25	1	105							1	110											2	110				
26	1	145							1	150											2	150				
26-LW																							1	90		
27			1	20					1	25			1	25	2	25	2	25	4	25	11	25			1	25
28	1	85							1	90											2	90				
28-LW																							1	90		
29							1	65	1	70			1	70	2	70	2	70	4	70	9	70			1	70
29-LW																							1	330		
30	1	80							1	85											2	85				
31	1	120							1	125											2	125				
31-LW																							1	95		
32			1	20					1	25			1	25	2	25	2	25	4	25	2	25			1	25
33	1	15							1	20					2	20	2	25	1	30						
34			1	25					1	30			1	60					3	60					1	60
35	1	45							1	50											2	50				
36	1	90							1	95											2	95				
36-LW																							1	100		

* CONDUCTOR LENGTHS PROVIDED FOR CONTRACTOR INFORMATION ONLY. INSTALLATION OF OPTICOM SHALL BE SUBSIDIARY TO ITEM 16724-100.



S11



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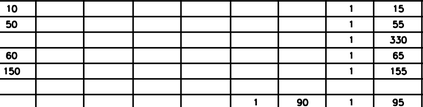

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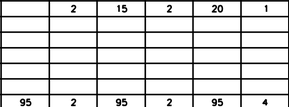
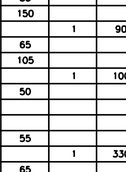


S2

R10-5L



S1, S3-S4, S6-S7, S9-S10, S12

ELECTRICAL SERVICE DATA

SERVICE TYPE	SERVICE DESCRIPTION	REMARKS	STATION AND OFFSET	STANDARDS
UL TYPE 3R	12 GUAGE STAINLESS STEEL OR ALUMINUM METERED PEDESTAL SERVICE WITH A MINIMUM 100 AMP RATING METER SOCKET, CLASS A OR CLASS C CONCRETE FOUNDATION, AND 30 AMP & 60 AMP SIGNAL POLE BREAKERS	PROVIDE METER SOCKET WINDOW 4"H x 6"W	STA 110+02.69, 79.94' RT @ E TC JESTER BLVD	02893-02

SERVICE NOTES:

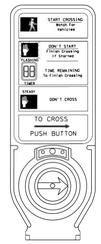
1. THE SERVICE LOCATION IS APPROXIMATE. THE EXACT LOCATION SHALL BE DETERMINED BY ENGINEER IN THE FIELD.
2. THE UTILITY COMPANY SHALL BE CONTACTED TO VERIFY THE POWER SOURCE LOCATION AND THEIR PROCEDURES FOR HOOK UP OF POWER DURING THE DESIGN PROCESS.

LOOP CHART			
DETECTOR LABEL	DIRECTION	SETTING	DETECTION ZONE DIMENSION
L1-1A	WBL	PRESENCE	6' X 6'
L1-2A	WBL	PRESENCE	6' X 6'
L1-3A	WBL	PRESENCE	6' X 30'
L2-1A	EB	PRESENCE	6' X 6'
L2-2A	EB	PULSE	6' X 6'
L2-3A	EB	PULSE	6' X 6'
L2-1B	EB	PRESENCE	6' X 6'
L2-2B	EB	PULSE	6' X 6'
L2-3B	EB	PULSE	6' X 6'
L3-1A	NBL	PRESENCE	6' X 6'
L3-2A	NBL	PRESENCE	6' X 6'
L3-3A	NBL	PRESENCE	6' X 30'
L4-1A	SB	PRESENCE	6' X 6'
L4-2A	SB	PULSE	6' X 6'
L4-3A	SB	PULSE	6' X 6'
L4-1B	SB	PRESENCE	6' X 6'
L4-2B	SB	PULSE	6' X 6'
L4-3B	SB	PULSE	6' X 6'
L5-1A	EBL	PRESENCE	6' X 6'
L5-2A	EBL	PRESENCE	6' X 6'
L5-3A	EBL	PRESENCE	6' X 30'
L6-1A	WB	PRESENCE	6' X 6'
L6-2A	WB	PULSE	6' X 6'
L6-3A	WB	PULSE	6' X 6'
L6-1B	WB	PRESENCE	6' X 6'
L6-2B	WB	PULSE	6' X 6'
L6-3B	WB	PULSE	6' X 6'
L7-1A	SBL	PRESENCE	6' X 6'
L7-2A	SBL	PRESENCE	6' X 6'
L7-3A	SBL	PRESENCE	6' X 30'
L8-1A	NB	PRESENCE	6' X 6'
L8-2A	NB	PULSE	6' X 6'
L8-3A	NB	PULSE	6' X 6'
L8-1B	NB	PRESENCE	6' X 6'
L8-2B	NB	PULSE	6' X 6'
L8-3B	NB	PULSE	6' X 6'

R10-3eL

PB1, PB3, PB5

R10-3eR



PB2, PB4, PB6, PB7, PB8

PROPOSED DIRECTION OF PEDESTRIAN SIGNAL HEADS AND LOCATION OF PUSH BUTTONS (APS UNITS)

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

SIGNAL DETAIL SHEET

SHEET 1 OF 1

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NTS	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 40 OF 278	

10/23/2025
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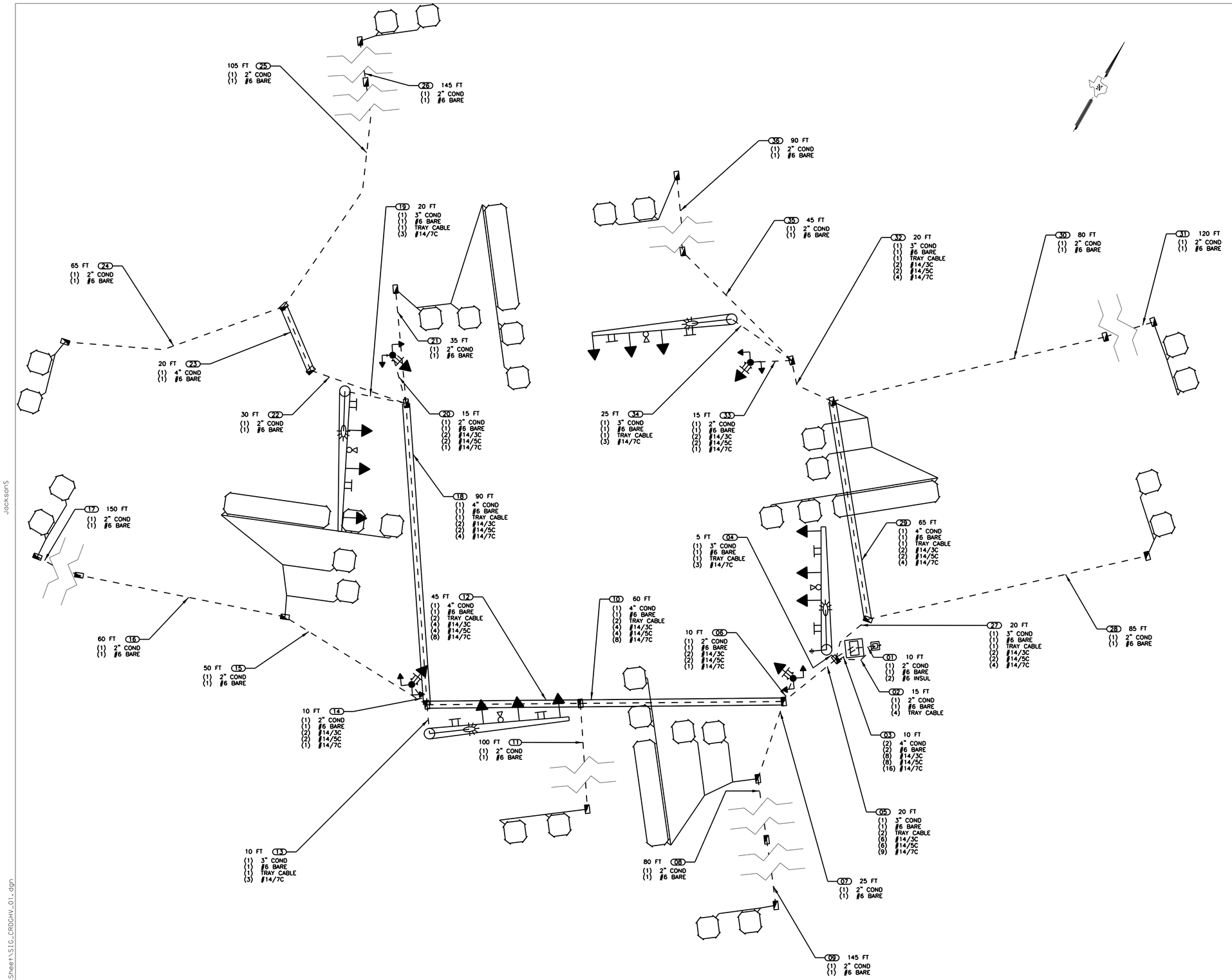

LEGEND

- PROP SIGNAL POLE AND MAST ARM
- PROP TRAFFIC SIGNAL HEAD
- PROP ILLUMINATION
- PROP XXXXXXX
- PROP STREET NAME SIGN
- PROP PEDESTRIAN POLE
- PROP PEDESTRIAN PUSH BUTTON
- PROP WIRELESS ANTENNA
- PROP PEDESTRIAN SIGNAL HEAD
- PROP METERED POWER PEDESTAL
- PROP PULL BOX
- PROP TRAFFIC SIGNAL CONTROLLER W/BBU
- DIRECTION OF TRAFFIC FLOW
- ROW
- CONDUIT (TRENCH)
- CONDUIT (BORE)
- WIRE RUN DESIGNATION
- 6'X 6' LOOP DETECTOR
- 6'X 10' LOOP DETECTOR
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NOTES:

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
TRAFFIC SIGNAL HIGH VOLTAGE CIRCUIT DIAGRAM

SHEET 1 OF 2

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NTS	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 41 OF 278	

10/23/2025
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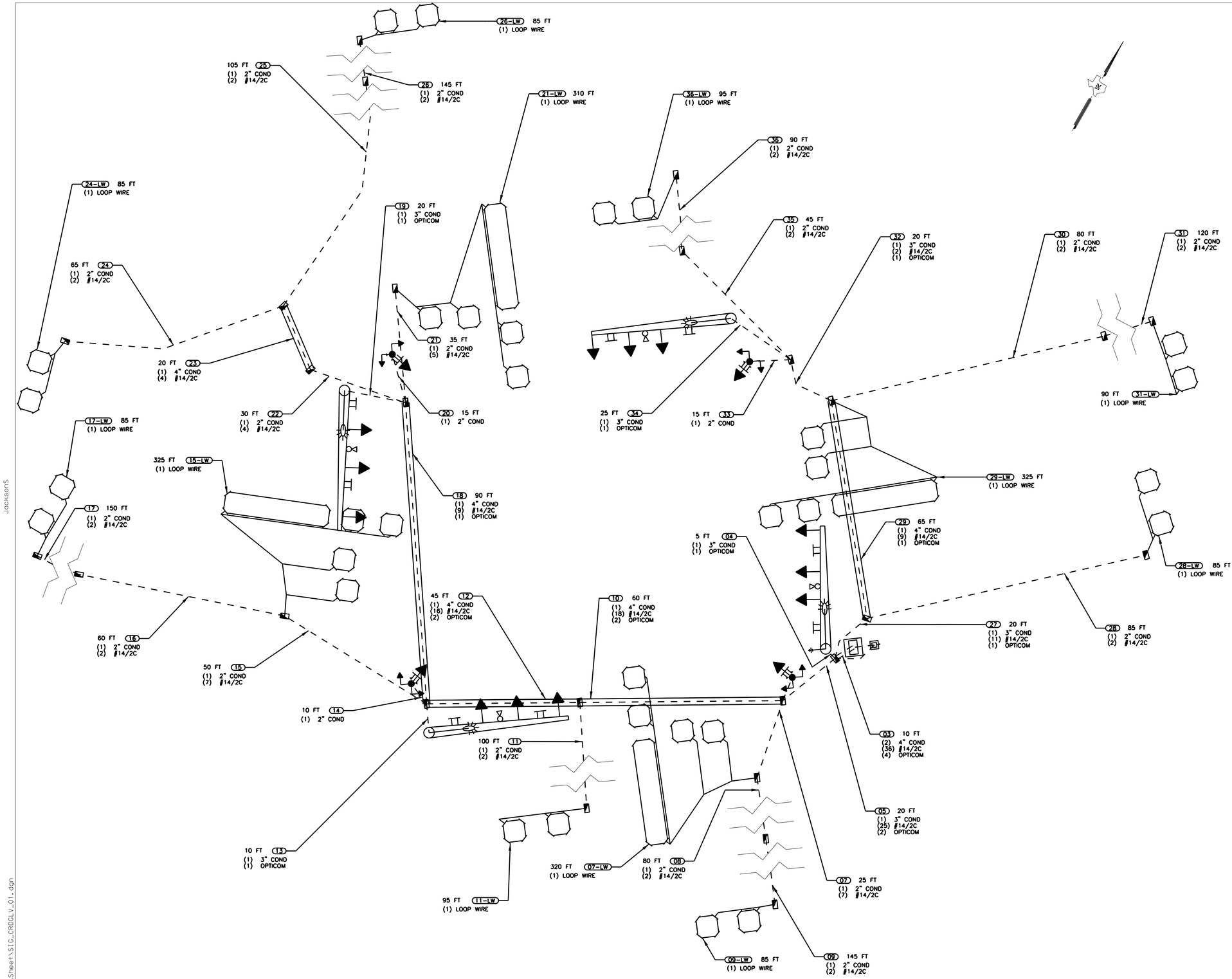

LEGEND

- PROP SIGNAL POLE AND MAST ARM
- PROP TRAFFIC SIGNAL HEAD
- PROP ILLUMINATION
- PROP OPTICOM
- PROP STREET NAME SIGN
- PROP PEDESTRIAN POLE
- PROP PEDESTRIAN PUSH BUTTON
- PROP WIRELESS ANTENNA
- PROP PEDESTRIAN SIGNAL HEAD
- PROP METERED POWER PEDESTAL
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
TRAFFIC SIGNAL LOW VOLTAGE CIRCUIT DIAGRAM

SHEET 2 OF 2

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NTS	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 42 OF 278	

10/23/2025
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GENERAL NOTES AND SPECIFICATION DATA:

USE A POWER BROOM WHEN CLEANING THE ROADWAY AS NEEDED.

REMOVE & DISPOSE ALL MATERIAL NOT DEEMED SALVAGEABLE BY THE ENGINEER, UNLESS OTHERWISE SHOWN ON THE PLANS.

ON EXISTING PAVEMENT THAT WILL REMAIN IN PLACE, SAND BLAST OR SURFACE TREAT IN ORDER TO REMOVE EXISTING STRIPING.

MAINTAIN ACCESS TO DRIVEWAYS AND INTERSECTIONS THROUGHOUT ALL THE PHASE OF CONSTRUCTION.

ALWAYS COMPLETE THE PROPOSED DRIVEWAYS DURING THEIR TCP [HASE BEFORE SWITCHING TRAFFIC TO A NEW PHASE UNLESS DIRECTED BY THE ENGINEER.

TRAFFIC CONTROL DEVICES:

AT THE COMMENCEMENT OF THE PROJECT, ALL TRAFFIC CONTROL DEVICES SHALL BE IN ACCEPTABLE CONDITION AND MAINTAINED THROUGHOUT THE DURATION OF THE PROJECT OF THE PROJECT, AS PER GUIDELINES FOR TEMPORARY TRAFFIC CONTROL DEVICES AND FEATURES.

NOTIFY THE AREA ENGINEER(AE) IN WRITING (E-MAIL IS ACCEPTABLE) ONCE THE TRAFFIC CONTROL PLAN (TCP) AND ALL TRAFFIC CONTROL DEVICES HAVE BEEN INSTALLED AS PER PLANS ON THE PROJECT SO THAT THE DEPARTMENT RESPONSIBLE PERSON ACCOMPANIED BY CONTRACTOR'S RESPONSIBLE PERSON CAN CONDUCT A NIGHT INSPECTION ON THE SAID TCP AND THE TRAFFIC CONTROL DEVICES. COMMENCEMENT OF THE WORK WILL NOT BE AUTHORIZED NOR ALLOWED UNTIL THE AE NOTIFIES THE CONTRACTOR IN WRITING (E-MAIL IS ACCEPTABLE) TO PROCEED WITH THE WORK.

CONTRACTOR SHALL HAVE A SUFFICIENT AMOUNT OF TRAFFIC CONTROL DEVICES IN ACCEPTABLE CONDITION TO ACCEPTABLE CONDITION TO REPLACED ANY DAMAGE TRAFFIC CONTROL DEVICE WITHIN 24 HOURS OF NOTIFICATION.

PROVIDE ADDITIONAL SIGNS AND BARRICADES AS NECESSARY TO ADDRESS FIELD CONSTRUCTABILITY & VISIBILITY. THESE ADDITIONAL SIGNS WILL BE CONSIDERED SUBSIDIARY TO ITEM 502.

REMOVE OR COMPLETELY COVER ALL EXISTING SIGNS WHICH ARE IN CONFLICT WITH THE TRAFFIC CONTROL PLAN.

ADJUST STOP SIGNS AS NEEDED ON INTERSECTIONS STREETS DURING THE VARIOUS CONSTRUCTION PHASES. DO NOT REMOVE ANY EXISTING STOP SIGN UNTIL TEMPORARY SIGNS ARE IN PLACE.

COORDINATE THE TRAFFIC CONTROL PLAN AND THE VARIOUS SEQUENCES OF CONSTRUCTION WITH ADJACENT CONSTRUCTION PROJECTS IF APPLICABLE. TO ENSURE THE UNINTERRUPTED AND SAFE FLOW OF TRAFFIC.

NOTIFY THE ENGINEER IN WRITING WHEN MAJOR TRAFFIC CHANGES ARE TO BE MADE. NOTIFICATIONS MUST BE GIVEN A MINIMUM OF THREE WORKING DAYS PRIOR TO THE CHANGE.

ALL WORK ZONE PAVEMENT MARKINGS FOR THE PROJECT SHALL BE 0.100 INCHES (100 ML) THICK THERMOPLASTIC.

SAFETY

PROJECT EXPOSED PITS THAT MUST REMAIN OPEN DURING NON-WORKING HOURS AS PER OSHA REQUIREMENTS.

PROJECT SPECIFIC NOTES:

1. THE TRAFFIC CONTROL PLAN (TCP) SERVES AS A GUIDE FOR THE SAFE HANDLING OF TRAFFIC DURING CONSTRUCTION OF THE PROJECT ROADWAYS, ASSOCIATED UTILITIES, AND OTHER RELATED ITEMS. THE TCP DOES NOT ATTEMPT TO ADDRESS EVERY ASPECT OF CONSTRUCTION THAT IS REQUIRED DURING EACH PHASE OF CONSTRUCTION.

2. THE CONTRACTOR SHALL NOTIFY THE PROPER CITY, COUNTY, E.M.S., FIRE DEPARTMENT, POLICE DEPARTMENT, AND TEXAS DEPARTMENT OF PUBLIC SAFETY WHEN MAJOR TRAFFIC CHANGES ARE TO BE MADE. THIS NOTIFICATION SHALL BE MADE A MINIMUM OF 3 DAYS PRIOR TO CHANGES.

3. THE CONTRACTOR SHALL NOTIFY SCHOOL DISTRICTS AND POSTMASTER AFFECTED TWO WEEKS (14 DAYS) PRIOR TO A NEW PHASE OR STEP IN CONSTRUCTION. THE CONTRACTOR HAS THE RESPONSIBILITY TO INSTALL TEMPORARY MAILBOXES DURING CONSTRUCTION OF EACH PHASE AND STEP THAT HAVE RESTRICTED ACCESS DUE TO PHASE CONSTRUCTION OPERATIONS.

4. THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS A MINIMUM OD 3 DAYS PRIOR TO RECONSTRUCTION OF EXISTING DRIVEWAY, FENCE, FENCE GATE, OR ANYTIME THAT THE PROPERTY OWNER ACCESS WILL BE RESTRICTED DURING CONSTRUCTION OPERATIONS. NOTIFICATION SHALL BE DONE VIA WRITTEN LETTER OF NOTIFICATION.

5. THE CONTRACTOR SHALL PROTECT THE PAVEMENT FROM ALL DAMAGE AS DIRECTED BY THE ENGINEER WHEN MOVING ANY EQUIPMENT NOT LICENSED FOR OPERATIONS ON ROADWAY PAVEMENT. THE CONTRACTOR SHALL KEEP TRAVELED SURFACES USED IN HAULING OPERATIONS CLEAR AND FREE OF DIRT AND OTHER DEBRIS.

6. THE BLUNT END OF ALL TEMPORARY CONCRETE TRAFFIC FACING TRAFFIC SHALL BE PROTECTED AT ALL TIMES WHEN MOVING/RESETTING FOR ANOTHER PHASE VIA TRUCK MOUNTED ATTENUATOR OR ANOTHER APPROVED PROTECTIVE DEVICE AS DIRECTED BY THE ENGINEER.

7. THE CONTRACTOR SHALL MAINTAIN ALL INTERSECTING ROADWAYS OPEN AND DRIVEABLE TO THE PUBLIC. IN AREAS WHERE EXISTING AND PROPOSED INTERSECTION ROADS DO NOT PROVIDE A SMOOTH TRAVELED-WAY TRANSITION. THE CONTRACTOR SHALL PLACE TEMPORARY ALL-WEATHER MATERIAL ACCORDINGLY IN A MANNER THAT MEETS SLOPE REQUIREMENTS PER PHARR DISTRICT DRIVEWAY STANDARDS.

8. THE PORTION OF THIS PROJECT WHICH COINCIDE WITH EXISTING ROADWAYS AND/OR PRIVATE DRIVES SHALL BE KEPT OPEN TO TRAFFIC AT ALL TIMES, UNLESS OTHERWISE PROVIDED OR APPROVED BY THE ENGINEER, THE CONTRACTOR WILL BE REQUIRED TO MAINTAIN AT ALL TIMES: (1) TWO-WAY SURFACE ROADWAY LANES (MINIMUM 11 FT LANE WIDTH) FOR THRU TRAFFIC ALONG FM 802 PROJECT LIMITS AND (2) LOCAL TRAFFIC ACCESS AT ALL MAJOR INTERSECTIONS DURING CONSTRUCTION (MINIMUM ONE-WAY SURFACE ROADWAY LANE). CONTRACTOR SHALL DELINEATE TEMPORARY DRIVEWAYS ACROSS THE CONSTRUCTION AREAS WITH TRAFFIC BARRELS OR VERTICAL PANELS THE END OF EACH WORK DAY AND WHEN OPERATIONS PERMIT.

9. CONTRACTOR SHALL EXERCISE CAUTION WHEN WORKING OVER AND AROUND EXISTING INLETS TO AVOID DAMAGE AND/OR DECONSTRUCTION OF THE STRUCTURE UNDERNEATH THE ROADWAY. ANY DAMAGES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED AND/OR REPLACES AT THE CONTRACTOR'S EXPENSE.

10. ALL UTILITIES ARE SWON ON THE PLANS FOR INFORMATION PURPOSES ONLY. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION, DEPTH, SIZE OF EXISTING UTILITIES. THE CONTRACTOR SHALL NOTIFY AND COORDINATE WITH THE UTILITY OWNER A MINIMUM OF 72 HOURS PRIOR TO COMMENCEMENT OF ANY EXCAVATION WORK. ANY DAMAGES TO EXISTING UTILITIES WILL BE REPAIRED AND/OR REPLACED AT THE CONTRACTOR EXPENSE.

11. CONTRACTOR SHALL PROVIDE 2 CHANGEABLE MESSAGE BOARDS DURING ALL CONSTRUCTION PHASE; THESE SIGNS SHALL BE REPLACED AS PER SEQUENCE OF CONSTRUCTION. CHANGEABLE MESSAGE BOARDS TO BE PLACED TO NOTIFY TRAVELING PUBLIC ON PLANNED CLOSURE DATE OR MOVEMENTS RESTRICTIONS 5 WORKING DAYS IN ADVANCE OF APPROVED DATE.

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SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
TRAFFIC CONTROL PLAN NARRATIVE

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NTS	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 43 OF 278	

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NOTES FOR ALL PHASES

1. INSTALL EROSION CONTROL DEVICES AS SHOWN ON THE PLANS AND ASSOCIATED SWP3 STANDARDS

2. ADJUST ROADWAY CONFIGURATION AS SHOWN ON THE TRAFFIC CONTROL PLAN (TCP) AND/OR AS DIRECTED BY THE ENGINEER. CONTRACTOR SHALL REMOVE ALL EXISTING CONFLICTING STRIPPING AND RAISED REFLECTIVE MARKERS, AND INSTALL WORK-ZONE STRIPPING, SIGNS, BARRICADES AND TEMPORARY CONCRETE TRAFFIC BARRIER.

3. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING POSITIVE DRAINAGE AT ALL TIME DURING CONSTRUCTION.

4. IF POSSIBLE, DRIVEWAYS WILL BE CONSTRUCTED IN HALVES.

PHASE 1 STEP 1

1. ALL TRAFFIC WILL MAINTAIN EXISTING CONFIGURATION. TEMPORARY PAVEMENT IS BUILD ON W 20TH STREET BETWEEN STA 113+00 TO STA 117+00.

PHASE 1 STEP 2

1. ALL TRAFFIC ON W 18TH ST WILL BE SHIFTED TO THE EXISTING SOUTH HALF OF THE ROAD, WITH ONE LANE OPEN IN EACH DIRECTION. THE NORTH/WEST CONER OF THE W 18TH ST AND TC JESTER INTERSECTION WILL BE CONSTRUCTED DURING THIS PHASE.

2. TRAFFIC ON W 20TH ST WILL BE SHIFTED TO THE SOUTH HALF ON THE ROAD, WITH ONE LANE OPEN IN EACH DIRECTION UP TO 19TH ST. FROM 19TH ST TO BEVIS ST IT WILL BE ONE LANE ONE WAY TRAFFIC GOING WEST BOUND. THE NORTH HALF OF W 20TH ST AND THE NORTH/WEST CONER OF THE 20TH ST AND BEVIS INTERSECTION WILL BE CONSTRUCTED DURING THIS PHASE.

PHASE 1 STEP 3

1. ALL TRAFFIC ON W 18TH ST WILL BE SHIFTED TO NEW CONSTRUCTED NORTH HALF OF THE ROAD, WITH ONE LANE OPEN IN EACH DIRECTION. THE NORTH/EAST CONER OF THE W 18TH ST AND TC JESTER INTERSECTION WILL BE CONSTRUCTED DURING THIS PHASE.

2. TRAFFIC ON 20TH ST WILL REMAIN THE SAME AS PREVIOUS PHASE AND THE NORTH/EAST CONER OF THE 20TH ST AND BEVIS INTERSECTION WILL BE CONSTRUCTED DURING THIS PHASE.

PHASE 2 STEP 1

1. ALL TRAFFIC ON W 18TH ST WILL BE SHIFTED TO NEW CONSTRUCTED NORTH HALF OF THE ROAD, WITH ONE LANE OPEN IN EACH DIRECTION. THE SOUTH/WEST CONER OF THE W 18TH ST AND TC JESTER INTERSECTION WILL BE CONSTRUCTED DURING THIS PHASE.

2. TRAFFIC ON W 20TH ST WILL BE SHIFTED TO THE NORTH HALF ON THE ROAD, WITH ONE LANE ONE WAY FROM TC JESTER BLVD ST TO BEVIS ST IT WILL BE ONE LANE ONE WAY TRAFFIC GOING WEST BOUND. THE SOUTH HALF OF W 20TH ST AND THE SOUTH/WEST CONER OF THE 20TH ST AND BEVIS INTERSECTION WILL BE CONSTRUCTED DURING THIS PHASE.

PHASE 2 STEP 2

1. TRAFFIC ON W 20TH ST WILL REMAIN AS PREVIOUS PHASE. THE SOUTH/EAST CONER OF THE 20TH ST AND BEVIS INTERSECTION AND SOUTH/EAST CORNER ON BEVIS STE AND W 20TH ST WILL BE CONSTRUCTED DURING THIS PHASE.

PHASE 3 STEP 1

1. TRAFFIC ON BEVIS ST WILL BE SHIFTED TO THE WEST HALF ON THE ROAD, WITH ONE LANE ONE WAY FROM 26TH ST TO 20TH ST IT WILL BE ONE LANE ONE WAY TRAFFIC GOING SOUTH BOUND. THE EAST HALF OF W BEVIS ST AND STORM SEWER BE CONSTRUCTED. CONSTRUCTION WILL BEGIN DOWNSTREAM.

2. THE SOUTH/EAST CONER OF THE 20TH ST AND BEVIS INTERSECTION WILL BE CONSTRUCTED DURING THIS PHASE.

3. DURING THE CONSTRUCTION OF THE EAST SIDE HALF OF BEVIS RD, YOU WILL BUILD THE INTERSECTIONS SOUTH/EAST CONERS ONE AT A TIME.

PHASE 3 STEP 2

1. TRAFFIC ON BEVIS ST WILL BE MAINTAIN AS PREVIOUS PHASE, THE EAST HALF OF BEVIS ST AND STORM SEWER CONSTRUCTION WILL MAINTAIN AS PREVIOUS PHASE. THE NORTH/EAST CONER OF THE INTERSECTIONS ON BEVIS ST WILL BE CONSTRUCTED ONE AT A TIME TO COMPLETE CONNECTIONS OF THE STORM SEWER.

PHASE 4 STEP 1

1. TRAFFIC ON BEVIS ST WILL BE SHIFTED TO THE NEWLEY BUILT EAST HALF ON THE ROAD, WITH ONE LANE ONE WAY FROM 26TH ST TO 20TH ST IT WILL BE ONE LANE ONE WAY TRAFFIC GOING NORTH BOUND. THE WEST HALF OF BEVIS ST WILL BE CONSTRUCTED.

2. DURING THE CONSTRUCTION OF THE EAST SIDE HALF OF BEVIS RD, YOU WILL BUILD THE INTERSECTIONS SOUTH/EAST CONERS ONE AT A TIME.

PHASE 4 STEP 2

1. TRAFFIC ON BEVIS ST WILL BE MAINTAIN AS PREVIOUS PHASE, THE WEST HALF OF BEVIS ST CONSTRUCTION WILL MAINTAIN AS PREVIOUS PHASE. THE NORTH/WEST CONER OF THE INTERSECTIONS ON BEVIS ST WILL BE CONSTRUCTED ONE AT A TIME.

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
TRAFFIC CONTROL PLAN NARRATIVE

SHEET 2 OF 2

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
CITY OF HOUSTON PM	
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SHEET NO. 44 OF 278	

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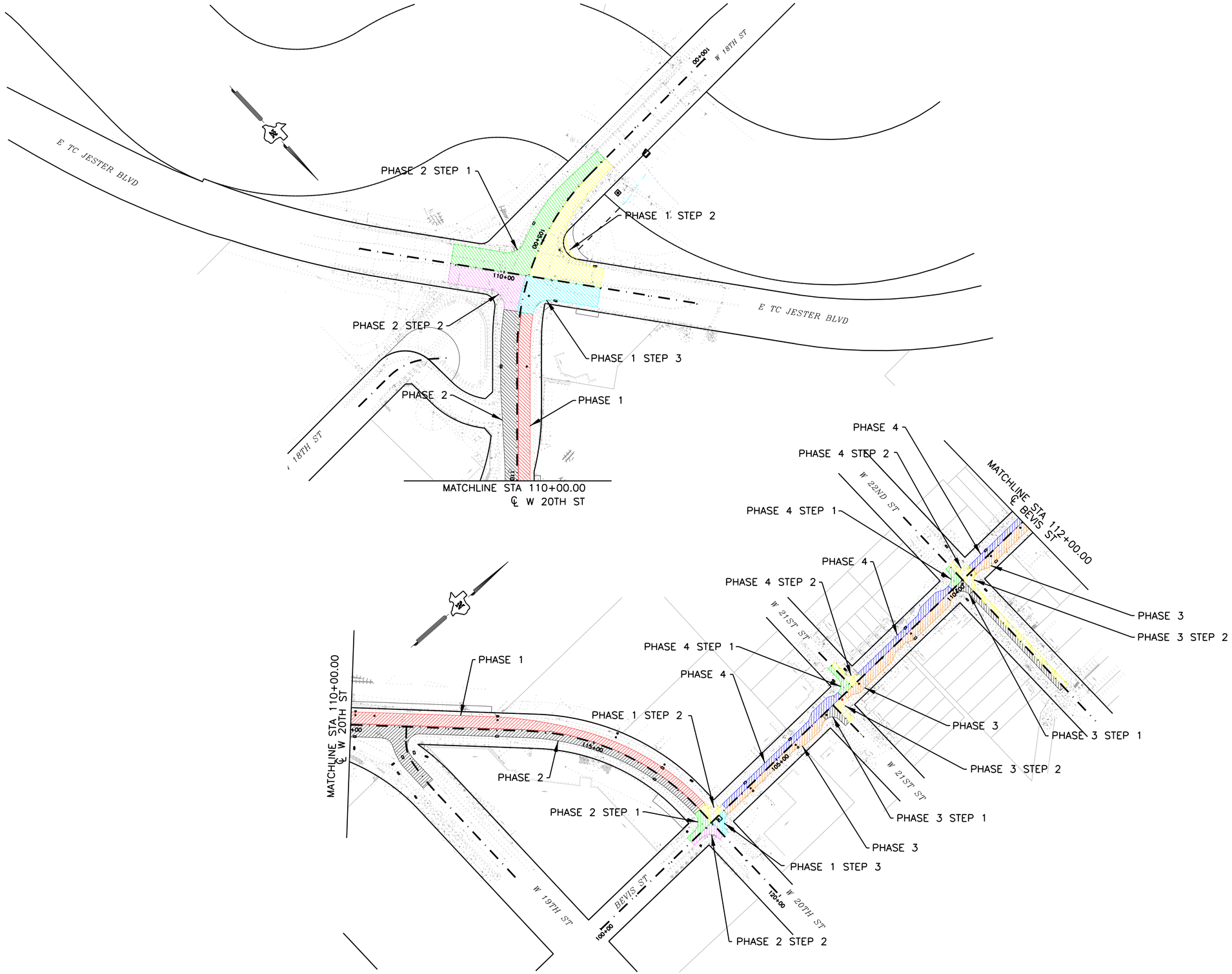

LEGEND:

- WORKZONE - PHASE 1
- WORKZONE - PHASE 1 STEP 2
- WORKZONE - PHASE 1 STEP 3
- WORKZONE - PHASE 2
- WORKZONE - PHASE 2 STEP 1
- WORKZONE - PHASE 2 STEP 2
- WORKZONE - PHASE 3
- WORKZONE - PHASE 3 STEP 1
- WORKZONE - PHASE 3 STEP 2
- WORKZONE - PHASE 4
- WORKZONE - PHASE 4 STEP 1
- WORKZONE - PHASE 4 STEP 2

0′ 100′ 200′
SCALE: 1"=100′

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

TRAFFIC CONTROL PLAN
OVERALL LAYOUT

SHEET 1 OF 2

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
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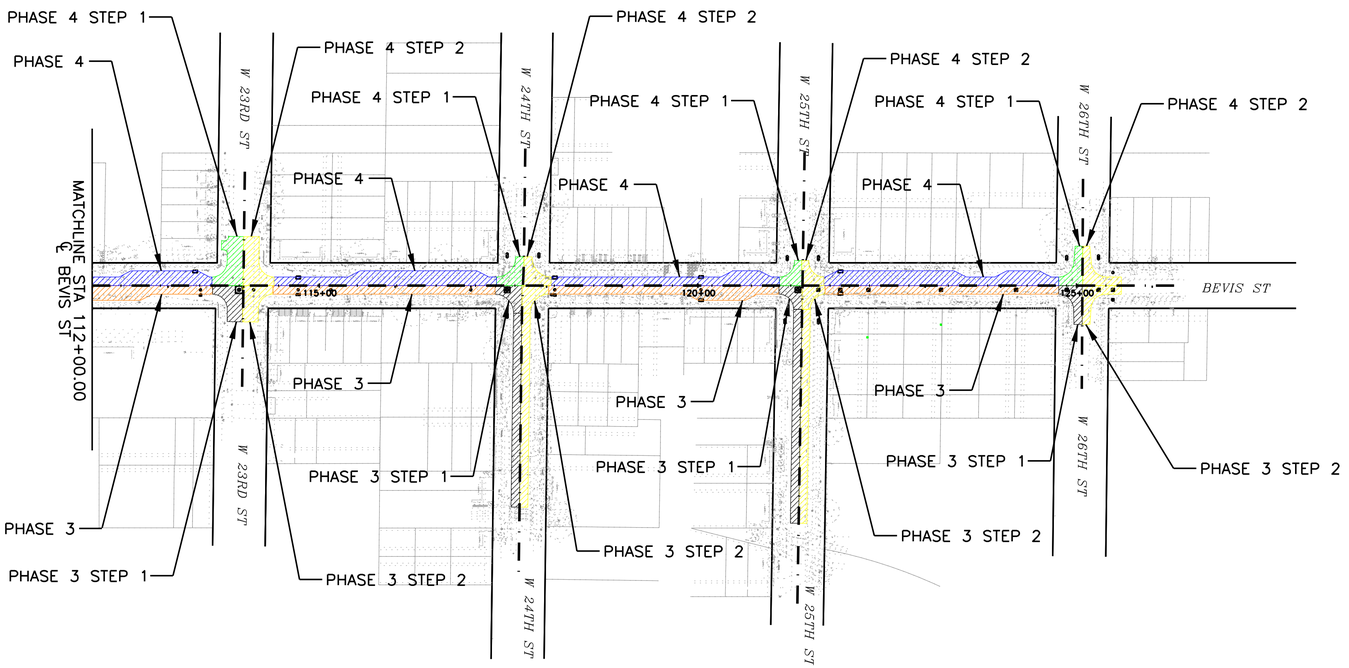

LEGEND:

- WORKZONE - PHASE 1
- WORKZONE - PHASE 1 STEP 2
- WORKZONE - PHASE 1 STEP 3
- WORKZONE - PHASE 2
- WORKZONE - PHASE 2 STEP 1
- WORKZONE - PHASE 2 STEP 2
- WORKZONE - PHASE 3
- WORKZONE - PHASE 3 STEP 1
- WORKZONE - PHASE 3 STEP 2
- WORKZONE - PHASE 4
- WORKZONE - PHASE 4 STEP 1
- WORKZONE - PHASE 4 STEP 2

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SCALE: 1"=100′

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

TRAFFIC CONTROL PLAN
OVERALL LAYOUT

SHEET 2 OF 2

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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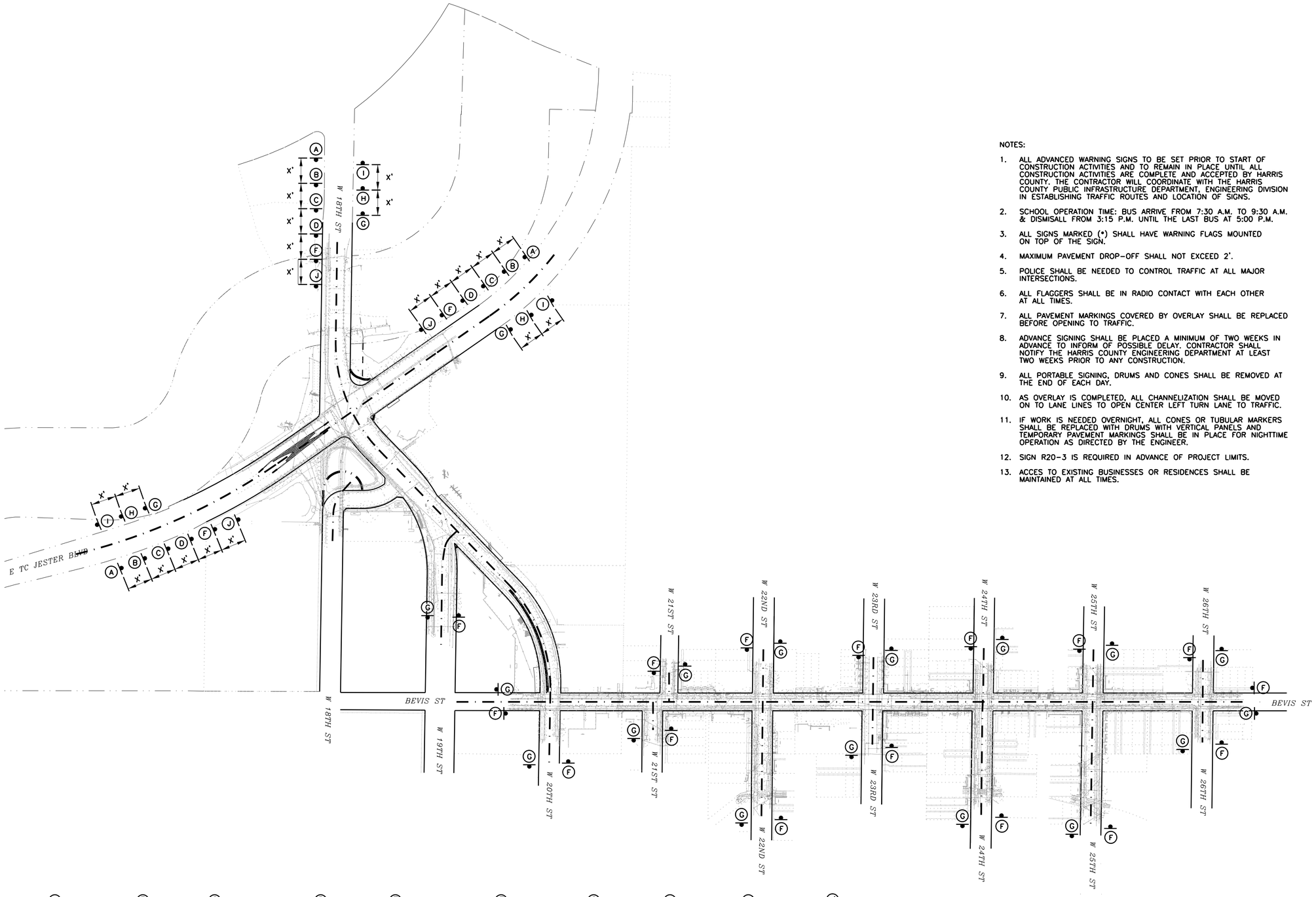

NOTES:

1. ALL ADVANCED WARNING SIGNS TO BE SET PRIOR TO START OF CONSTRUCTION ACTIVITIES AND TO REMAIN IN PLACE UNTIL ALL CONSTRUCTION ACTIVITIES ARE COMPLETE AND ACCEPTED BY HARRIS COUNTY. THE CONTRACTOR WILL COORDINATE WITH THE HARRIS COUNTY PUBLIC INFRASTRUCTURE DEPARTMENT, ENGINEERING DIVISION IN ESTABLISHING TRAFFIC ROUTES AND LOCATION OF SIGNS.
2. SCHOOL OPERATION TIME: BUS ARRIVE FROM 7:30 A.M. TO 9:30 A.M. & DISMISALL FROM 3:15 P.M. UNTIL THE LAST BUS AT 5:00 P.M.
3. ALL SIGNS MARKED (*) SHALL HAVE WARNING FLAGS MOUNTED ON TOP OF THE SIGN.
4. MAXIMUM PAVEMENT DROP-OFF SHALL NOT EXCEED 2'.
5. POLICE SHALL BE NEEDED TO CONTROL TRAFFIC AT ALL MAJOR INTERSECTIONS.
6. ALL FLAGGERS SHALL BE IN RADIO CONTACT WITH EACH OTHER AT ALL TIMES.
7. ALL PAVEMENT MARKINGS COVERED BY OVERLAY SHALL BE REPLACED BEFORE OPENING TO TRAFFIC.
8. ADVANCE SIGNING SHALL BE PLACED A MINIMUM OF TWO WEEKS IN ADVANCE TO INFORM OF POSSIBLE DELAY. CONTRACTOR SHALL NOTIFY THE HARRIS COUNTY ENGINEERING DEPARTMENT AT LEAST TWO WEEKS PRIOR TO ANY CONSTRUCTION.
9. ALL PORTABLE SIGNING, DRUMS AND CONES SHALL BE REMOVED AT THE END OF EACH DAY.
10. AS OVERLAY IS COMPLETED, ALL CHANNELIZATION SHALL BE MOVED ON TO LANE LINES TO OPEN CENTER LEFT TURN LANE TO TRAFFIC.
11. IF WORK IS NEEDED OVERNIGHT, ALL CONES OR TUBULAR MARKERS SHALL BE REPLACED WITH DRUMS WITH VERTICAL PANELS AND TEMPORARY PAVEMENT MARKINGS SHALL BE IN PLACE FOR NIGHTTIME OPERATION AS DIRECTED BY THE ENGINEER.
12. SIGN R20-3 IS REQUIRED IN ADVANCE OF PROJECT LIMITS.
13. ACCES TO EXISTING BUSINESSES OR RESIDENCES SHALL BE MAINTAINED AT ALL TIMES.

A

OBEY WARNING SIGNS STATE LAW

R20-3T 48"X42"

B

STAY ALERT

TALK OR TEXT LATER

G20-10T 60"X48"

C

BEGIN WORK ZONE — G20-9TP 24"X24"

TRAFFIC FINES DOUBLE — R20-5T 24"X30"

WHEN WORKERS ARE PRESENT — R20-5aTP 24"X12"

D

SPEED LIMIT 30

CW3-5 48"X48"

E

WORK ZONE — G20-5aP 36"X24"

SPEED LIMIT 30 — R2-1 48"X60"

F

ROAD WORK AHEAD

CW20-1D 48"X48"

G

END ROAD WORK

G20-2 36"X18"

H

SPEED LIMIT 35

R2-1 48"X60"

I

END WORK ZONE

G20-2bT 36"X18"

J

BEGIN ROAD WORK NEXT X MILES — G20-5T 48"X24"

NAME
ADDRESS
CITY
STATE
CONTRACTOR — G20-6T 48"X30"

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
TRAFFIC CONTROL PLAN ADVANCED WARNING SIGNS

SHEET 1 OF 1

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
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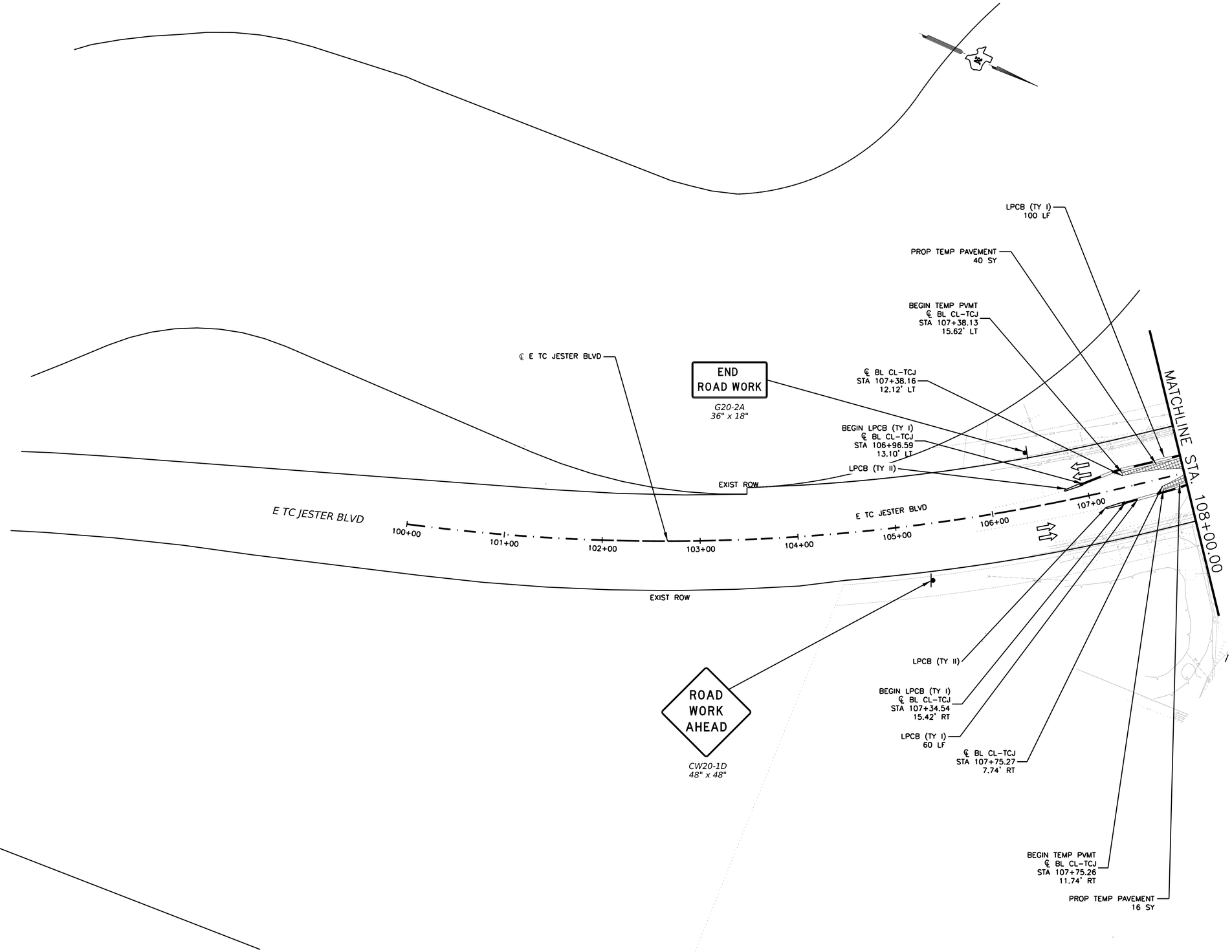

LEGEND:

- WORKZONE
- TEMPORARY ASPHALT PAVEMENT
- NEWLY CONSTRUCTED PAVEMENT
- NEWLY CONSTRUCTED TEMP PAVEMENT
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
- VERTICAL PANELS
- LOW PROFILE CONCRETE TRAFFIC BARRIER (LPCTB) (TYPE 1)
- LOW PROFILE CONCRETE TRAFFIC BARRIER (TYPE 2)

- (A) WK ZN PAV MRK REMOV 4" (W) (SLD)
- (B) WK ZN PAV MRK REMOV 4" (Y) (SLD)
- (C) WK ZN PAV MRK REMOV 4" (Y) (SLD)(DBL)
- (D) WK ZN PAV MRK REMOV 4" (W) (BRK)
- (E) WK ZN PAV MRK REMOV 4" (W) (CAT TRK)
- (F) WK ZN PAV MRK REMOV 4" (Y) (CAT TRK)
- (G) WK ZN PAV MRK REMOV 24" (W) (SLD)

NOTES:

1. CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS THROUGH AND AROUND WORK ZONE DURING CONSTRUCTION.
2. CONTRACTOR SHALL PROVIDE ACCESS TO ALL BUSINESSES AND RESIDENCES ALONG THIS PROJECT, AT ALL TIMES DURING CONSTRUCTION, UNLESS OTHERWISE AUTHORIZED SPECIFICALLY BY THE ENGINEER.
3. CONTRACTOR TO COVER SIGNS THAT ARE NOT IN USE DURING CONSTRUCTION ACTIVITIES
4. TRAFFIC CONTROL PLAN DEVICES SHALL BE PLACED IN ACCORDANCE WITH APPLICABLE BC AND TCP STANDARDS.
5. CONTRACTOR SHALL LOCATE SIGNS, BARRICADES AND CHANNELIZATION DEVICES AS APPROVED BY THE ENGINEER.

0′ 50′ 100′
SCALE: 1"=50′

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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

E TC JESTER BLVD

TRAFFIC CONTROL PLAN
PHASE 1 STEP 1

BEGIN TO STA 108+00.00

SHEET 1 OF 3

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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1"=50′	
CITY OF HOUSTON PM	
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SHEET NO. 48 OF 278	

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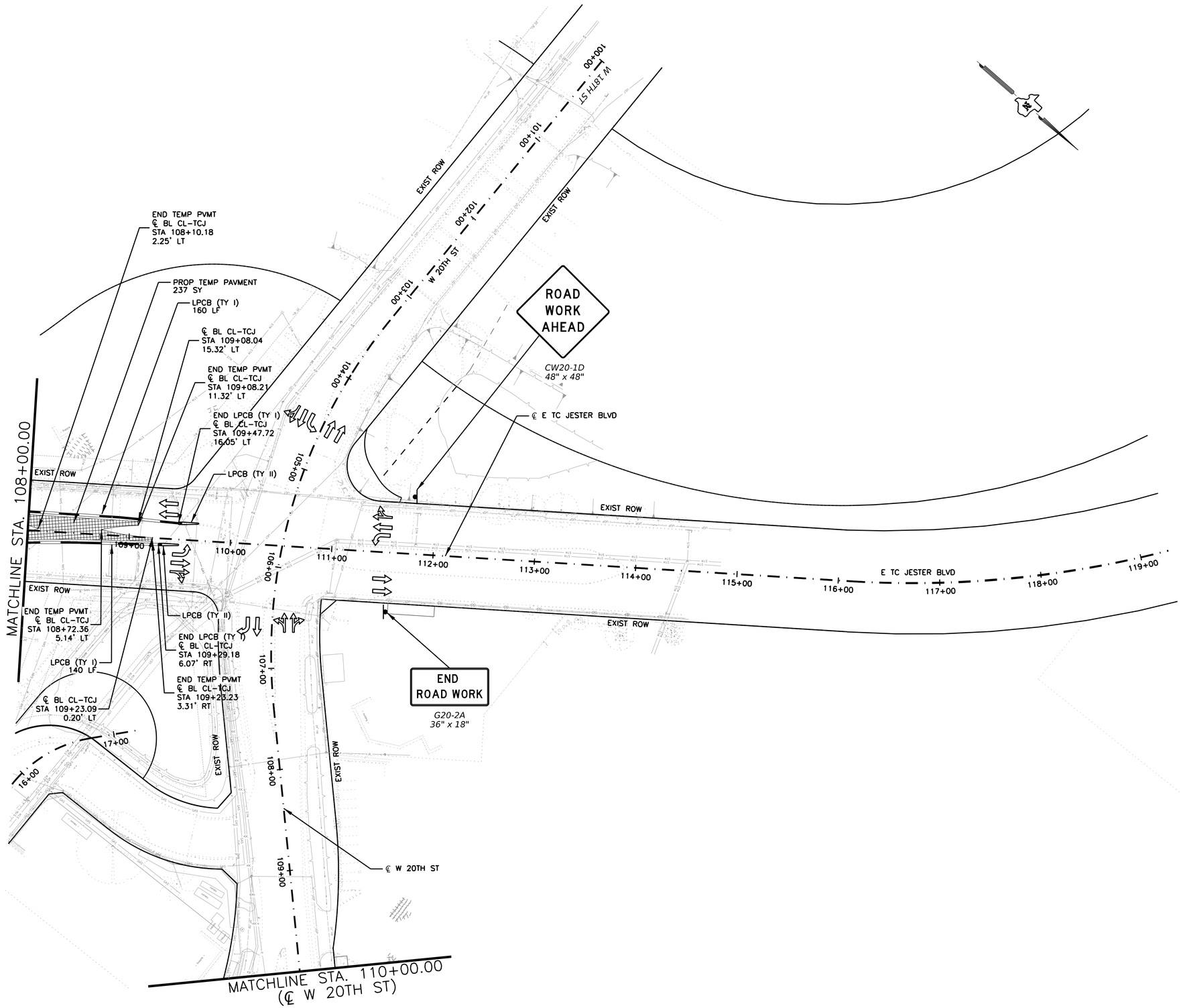

LEGEND:

- WORKZONE
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- NEWLY CONSTRUCTED PAVEMENT
- NEWLY CONSTRUCTED TEMP PAVEMENT
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
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- LOW PROFILE CONCRETE TRAFFIC BARRIER (LPCTB) (TYPE 1)
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- (D) WK ZN PAV MRK REMOV 4" (W) (BRK)
- (E) WK ZN PAV MRK REMOV 4" (W) (CAT TRK)
- (F) WK ZN PAV MRK REMOV 4" (Y) (CAT TRK)
- (G) WK ZN PAV MRK REMOV 24" (W) (SLD)

NOTES:

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3. CONTRACTOR TO COVER SIGNS THAT ARE NOT IN USE DURING CONSTRUCTION ACTIVITIES
4. TRAFFIC CONTROL PLAN DEVICES SHALL BE PLACED IN ACCORDANCE WITH APPLICABLE BC AND TCP STANDARDS.
5. CONTRACTOR SHALL LOCATE SIGNS, BARRICADES AND CHANNELIZATION DEVICES AS APPROVED BY THE ENGINEER.

0' 50' 100'
SCALE: 1"=50'

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

E TC JESTER BLVD

TRAFFIC CONTROL PLAN
PHASE 1 STEP 1

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SHEET 2 OF 3

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DRAWING SCALE	
1"=50'	
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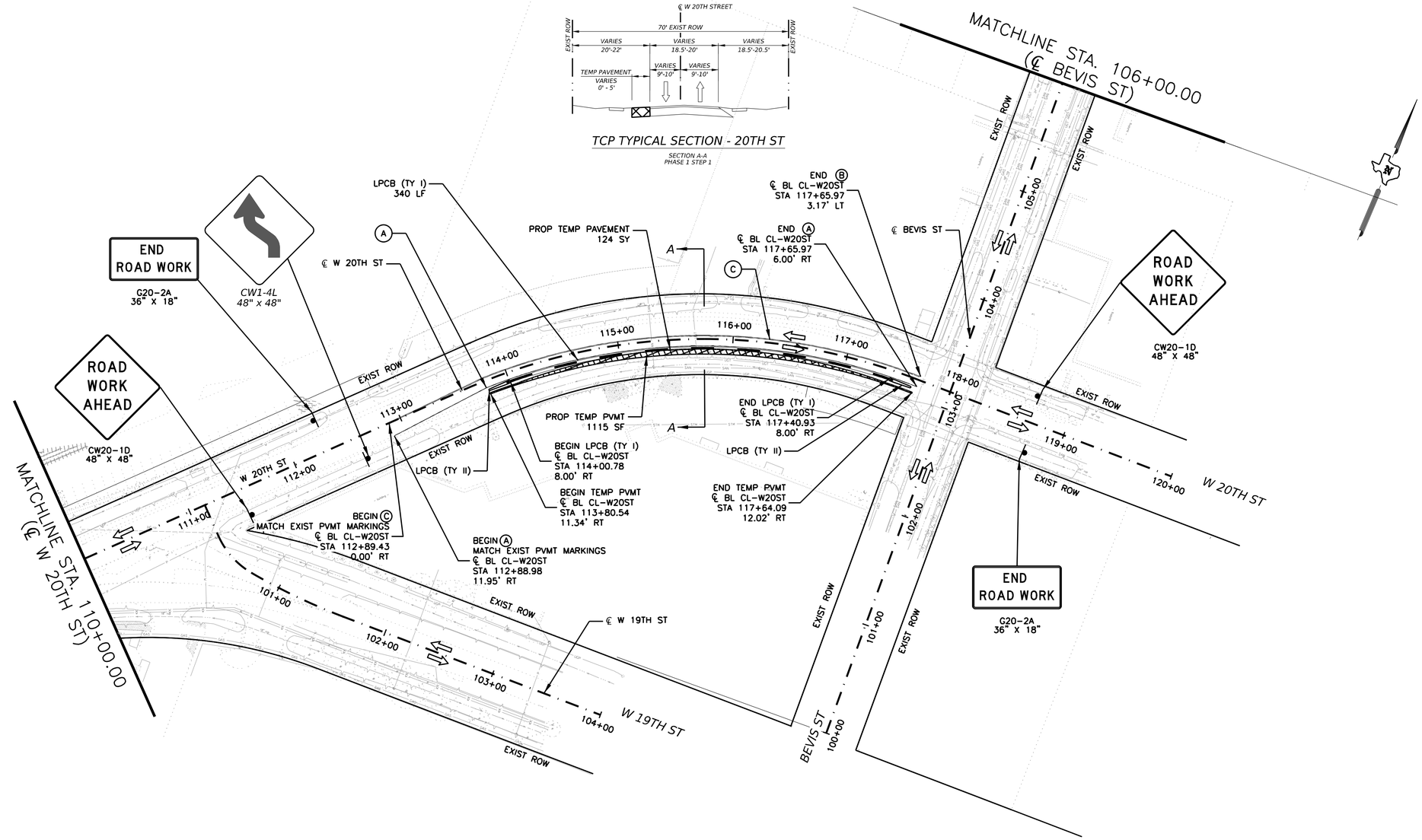

LEGEND:

- WORKZONE
- TEMPORARY ASPHALT PAVEMENT
- NEWLY CONSTRUCTED PAVEMENT
- NEWLY CONSTRUCTED TEMP PAVEMENT
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
- VERTICAL PANELS
- LOW PROFILE CONCRETE TRAFFIC BARRIER (LPCTB) (TYPE 1)
- LOW PROFILE CONCRETE TRAFFIC BARRIER (TYPE 2)

- (A) WK ZN PAV MRK REMOV 4" (W) (SLD)
- (B) WK ZN PAV MRK REMOV 4" (Y) (SLD)
- (C) WK ZN PAV MRK REMOV 4" (Y) (SLD)(DBL)
- (D) WK ZN PAV MRK REMOV 4" (W) (BRK)
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- (F) WK ZN PAV MRK REMOV 4" (Y) (CAT TRK)
- (G) WK ZN PAV MRK REMOV 24" (W) (SLD)

NOTES:

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0′ 50′ 100′
SCALE: 1"=50′

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 941-5581
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

W 20TH STREET

TRAFFIC CONTROL PLAN
PHASE 1 STEP 1

STA 110+00.00 TO END

SHEET 3 OF 3

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=50′	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 50 OF 278	

10/27/2025
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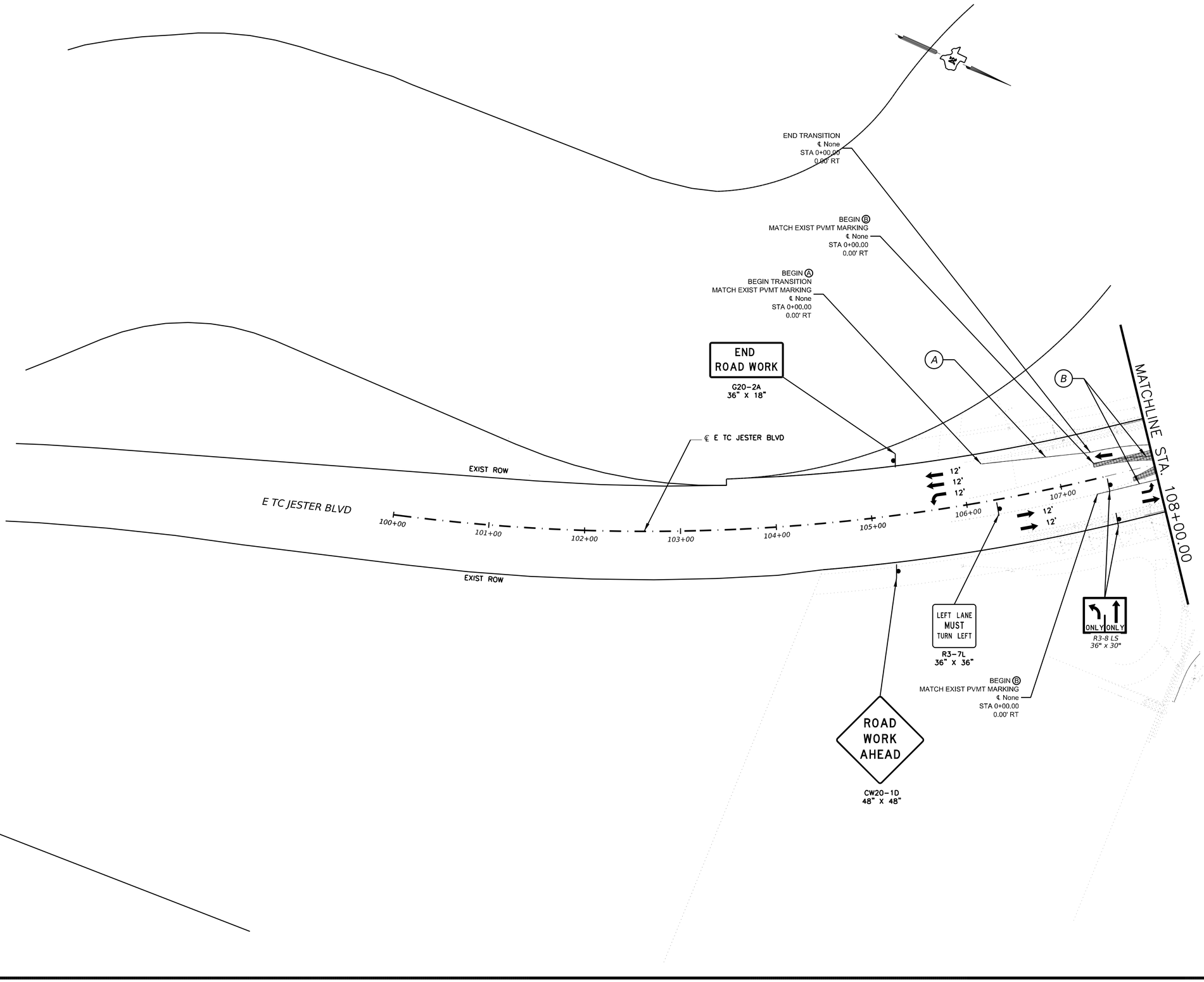
TCPHIS1_03.dgn



LEGEND:

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- TEMPORARY ASPHALT PAVEMENT
- NEWLY CONSTRUCTED PAVEMENT
- NEWLY CONSTRUCTED TEMP PAVEMENT
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- TYPE III BARRICADE
- VERTICAL PANELS
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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

E TC JESTER BLVD

TRAFFIC CONTROL PLAN PHASE 1 STEP 2

BEGIN TO STA 108+00.00

SHEET 1 OF 4

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=50'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 51 OF 278	

Asset E

10/27/2025
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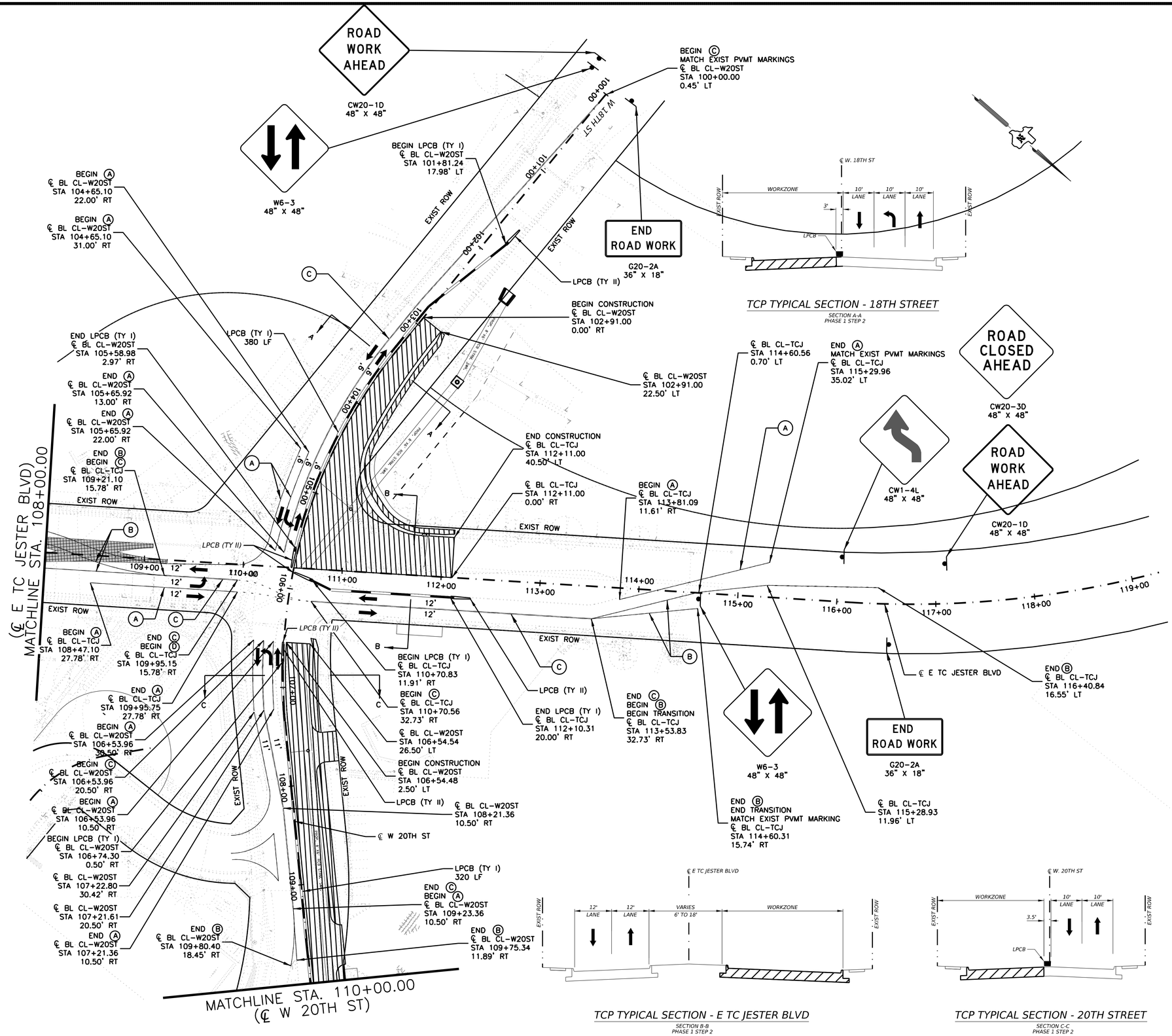
TURK_TCPH1S2_01.dgn



LEGEND:

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SURVEYED BY: KUO
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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

E TC JESTER BLVD

TRAFFIC CONTROL PLAN PHASE 1 STEP 2

STA 108+00.00 TO END

SHEET 2 OF 4

WBS NUMBER	M-410291-0001-4
DRAWING SCALE	1"=50'
CITY OF HOUSTON PM	LOI MA
SHEET NO.	52 OF 278

FOR CITY OF HOUSTON USE ONLY

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10/27/2025
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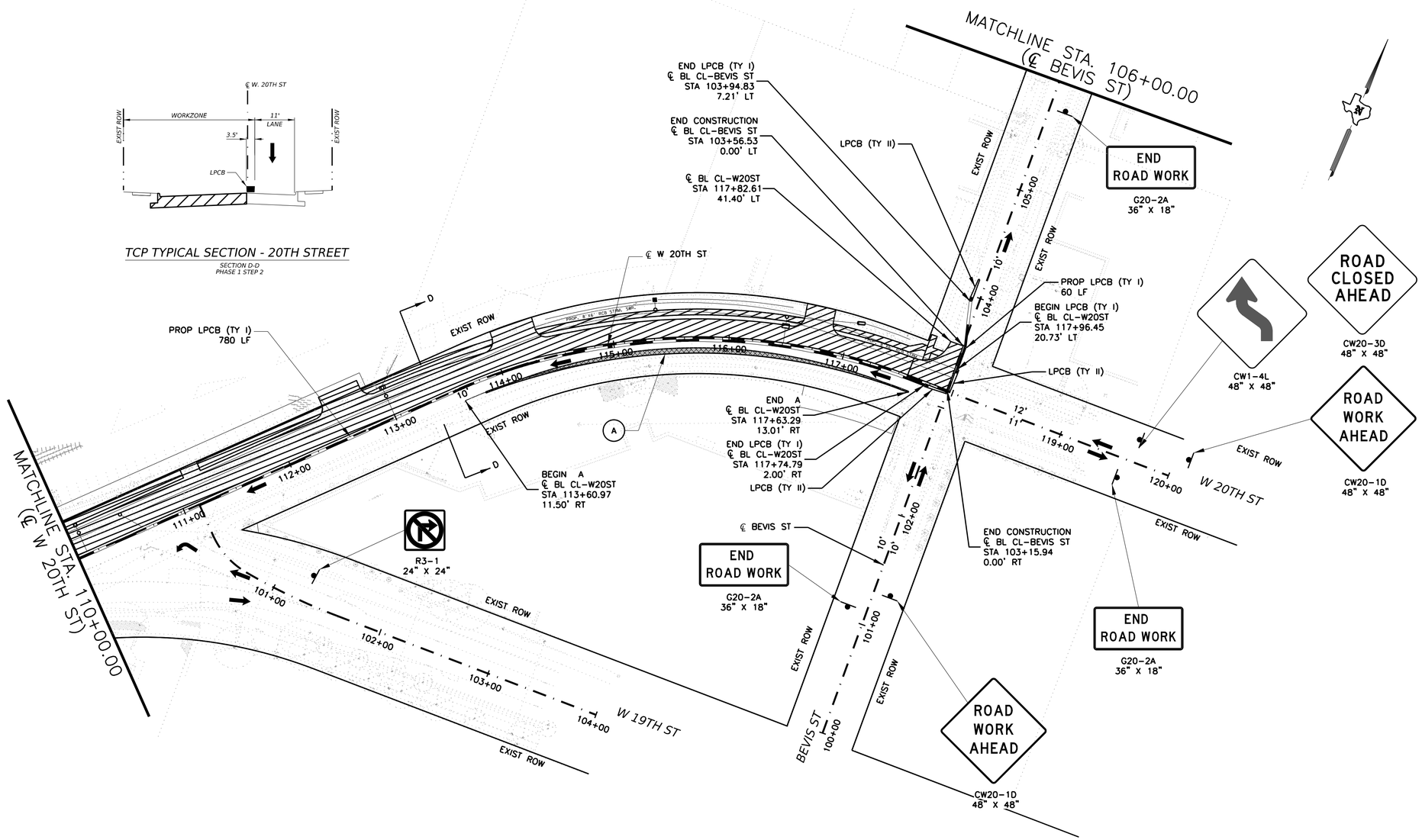
TCP TYPICAL SECTION - 20TH STREET

SECTION D-D
PHASE 1 STEP 2



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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

W 20TH STREET

TRAFFIC CONTROL PLAN
PHASE 1 STEP 2

STA 110+00.00 TO END

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=50'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 53 OF 278	

Asset E
10/27/2025
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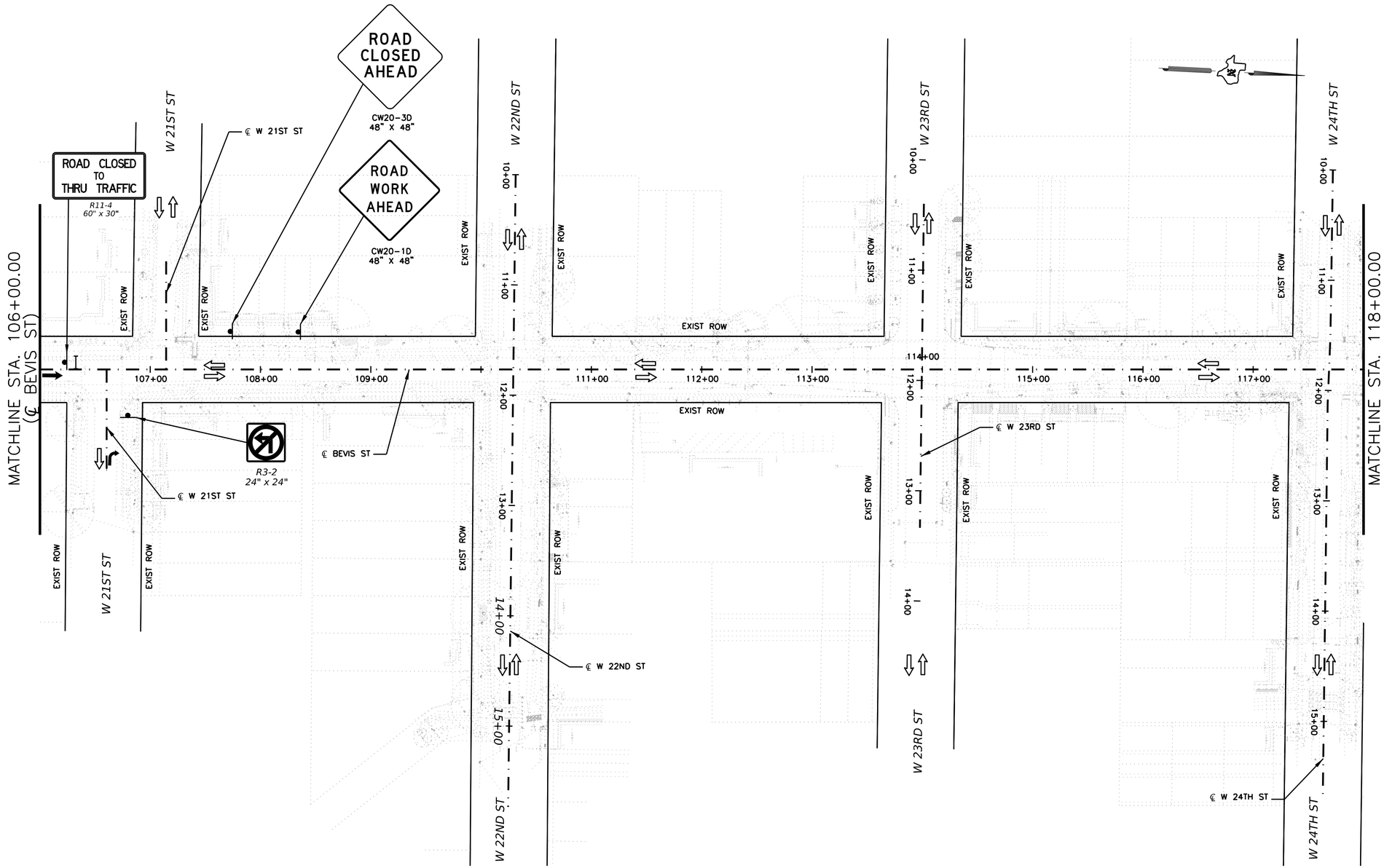
TCPH1S2_03.dgn



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HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

BEVIS STREET

TRAFFIC CONTROL PLAN
PHASE 1 STEP 2

STA 106+00.00 TO STA 118+00.00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=50'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 54 OF 278	

10/27/2025
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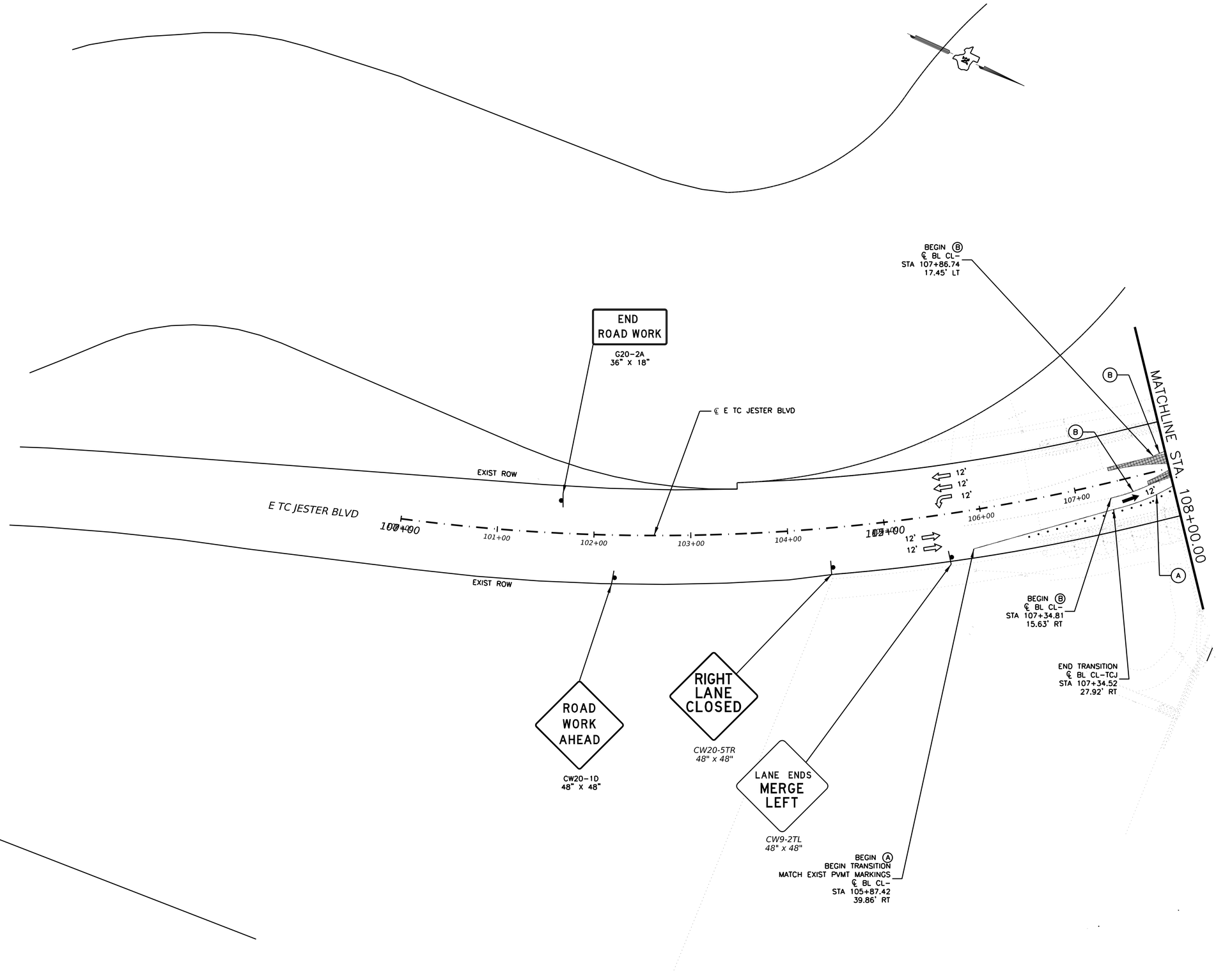

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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

E TC JESTER BLVD

TRAFFIC CONTROL PLAN PHASE 1 STEP 3

BEGIN TO STA 108+00.00

SHEET 1 OF 4

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=50'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 55 OF 278	

10/27/2025
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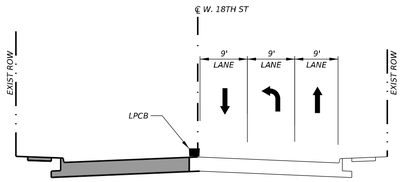


TCP TYPICAL SECTION - 18TH STREET

SECTION A-A
PHASE 1 STEP 3

BEGIN (A)
℄ BL CL-W20ST
STA 104+65.10
31.00' RT

END LPCB (TY I)
℄ BL CL-W20ST
STA 102+89.06
2.38' LT

END (C)
℄ BL CL-W20ST
STA 100+00.00
0.45' LT

END (A)
℄ BL CL-W20ST
STA 105+27.49
31.00' RT

LPCB (TY II)

BEGIN LPCB (TY I)
℄ BL CL-W20ST
STA 101+90.72
18.35' LT

END (C)
℄ BL CL-TCJ
STA 110+08.87
27.90' LT

PROP LPCB (TY I)
100 LF

END (B)
BEGIN (C)
℄ BL CL-TCJ
STA 109+23.23
27.90' LT

BEGIN (A)
℄ BL CL-W20ST
STA 104+65.10
22.00' RT

END (A)
℄ BL CL-W20ST
STA 105+27.49
22.00' RT

END (C)
BEGIN (B)
℄ BL CL-TCJ
STA 113+61.54
24.50' LT

END (B)
℄ BL CL-TCJ
STA 115+29.96
35.02' LT

END LPCB (TY I)
℄ BL CL-TCJ
STA 112+17.59
3.00' LT

END TRANSITION
℄ BL CL-TCJ
STA 108+61.19
27.90' LT

END (C)
℄ BL CL-W20ST
STA 105+27.49
13.00' RT

BEGIN (C)
℄ BL CL-TCJ
STA 110+77.73
24.51' LT

LANE ENDS
MERGE
LEFT

CW9-2TL
48" x 48"

RIGHT
LANE
ENDS

CW9-1R
48" x 48"

MATCHLINE STA. 108+00.00
(℄ E TC JESTER BLVD)

℄ E TC JESTER BLVD

EXIST ROW

12'
12'

10'
10'

109+00
110+00
111+00
112+00
113+00
114+00
115+00
116+00
117+00
118+00
119+00

BEGIN (C)
℄ BL CL-W20ST
STA 105+91.73
20.50' RT

EXIST ROW ℄ BL CL-TCJ
STA 110+51.15
0.00' RT

LPCB (TY II)

℄ BL CL-TCJ
STA 112+11.00
0.00' RT

END (B)
℄ BL CL-TCJ
STA 115+30.10
17.23' LT

PROP LPCB (TY I)
80 LF

BEGIN CONSTRUCTION
℄ BL CL-TCJ
STA 110+48.21
75.60' RT

BEGIN LPCB (TY I)
℄ BL CL-W20ST
STA 106+00.45
0.50' RT

END CONSTRUCTION
℄ BL CL-TCJ
STA 112+11.00
43.17' RT

℄ BL CL-W20ST
STA 107+21.61
20.50' RT

℄ BL CL-TCJ
STA 110+72.25
75.56' RT

PROP LPCB (TY I)
140 LF

END LPCB (TY I)
℄ BL CL-W20ST
STA 106+80.29
0.50' RT

BEGIN LPCB (TY I)
℄ BL CL-TCJ
STA 110+75.35
3.00' LT

END (A)
℄ BL CL-TCJ
STA 115+25.79
42.84' RT

END (A)
℄ BL CL-W20ST
STA 108+43.53
65.74' RT

LPCB (TY II)

℄ BL CL-W20ST
STA 108+21.36
10.50' RT

CW1-4R
48" x 48"

END (B)
℄ BL CL-TCJ
STA 114+82.82
19.76' RT

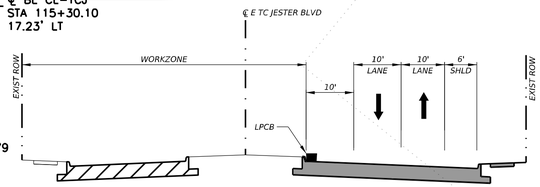
℄ W 20TH ST

END (C)
BEGIN (B)
℄ BL CL-W20ST
STA 109+23.36
10.50' RT

END (B)
℄ BL CL-W20ST
STA 109+75.35
11.89' RT

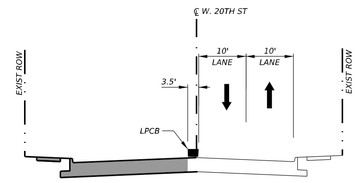
END (B)
℄ BL CL-W20ST
STA 109+80.40
18.45' RT

MATCHLINE STA. 110+00.00
(℄ W 20TH ST)



TCP TYPICAL SECTION - E TC JESTER BLVD

SECTION B-B
PHASE 1 STEP 3



TCP TYPICAL SECTION - 20TH STREET

SECTION C-C
PHASE 1 STEP 3

LEGEND:

- WORKZONE
- TEMPORARY ASPHALT PAVEMENT
- NEWLY CONSTRUCTED PAVEMENT
- NEWLY CONSTRUCTED TEMP PAVEMENT
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- LOW PROFILE CONCRETE TRAFFIC BARRIER (LPCTB) (TYPE 1)
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(A) WK ZN PAV MRK REMOV 4" (W) (SLD)
(B) WK ZN PAV MRK REMOV 4" (Y) (SLD)
(C) WK ZN PAV MRK REMOV 4" (Y) (SLD)(DBL)
(D) WK ZN PAV MRK REMOV 4" (W) (BRK)
(E) WK ZN PAV MRK REMOV 4" (W) (CAT TRK)
(F) WK ZN PAV MRK REMOV 4" (Y) (CAT TRK)
(G) WK ZN PAV MRK REMOV 24" (W) (SLD)

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0' 50' 100'
SCALE: 1"=50'

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591

TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

E TC JESTER BLVD

TRAFFIC CONTROL PLAN
PHASE 1 STEP 3

STA 108+00.00 TO END

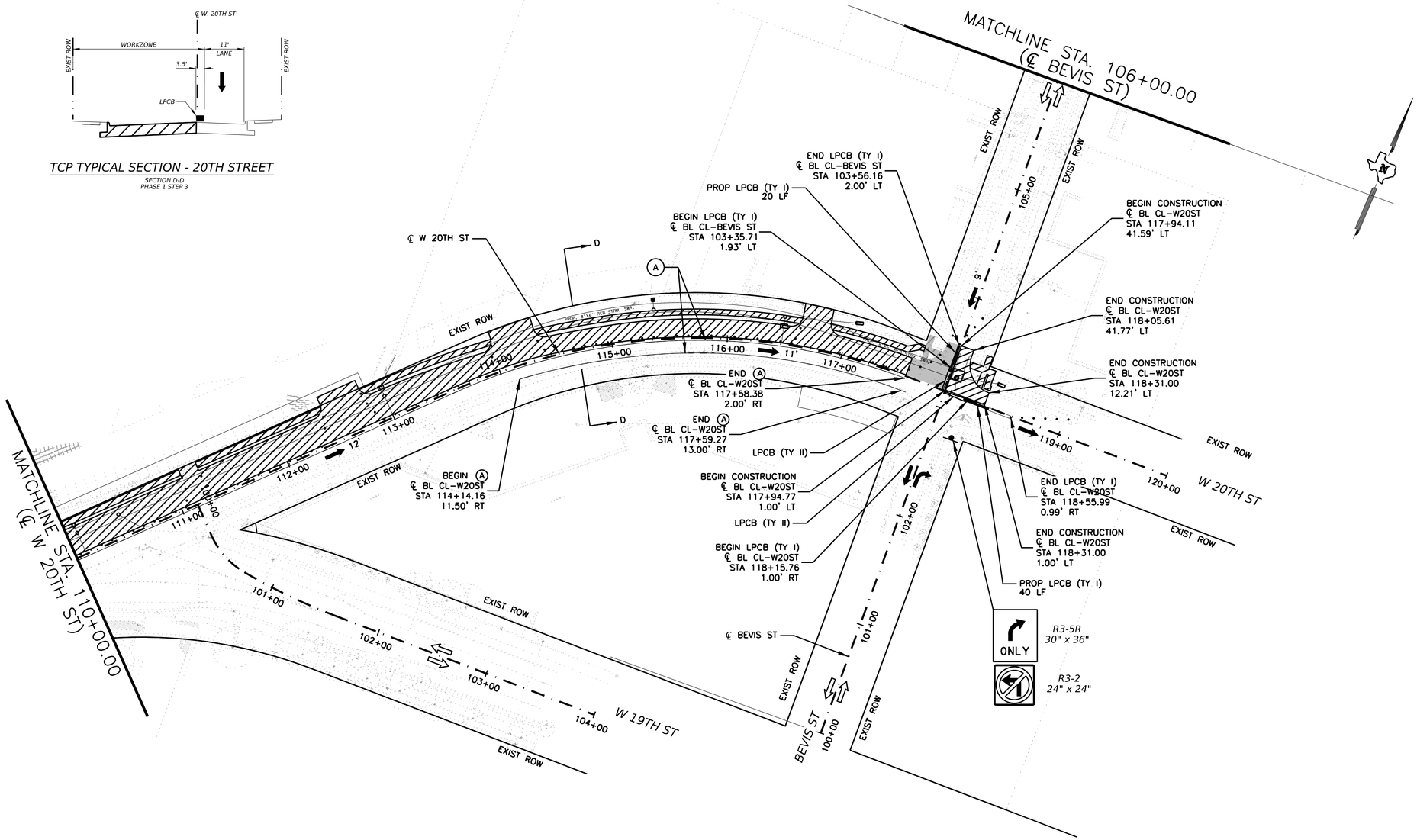
SHEET 2 OF 4

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=50'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **56** OF **278**	

10/27/2025
I:\TCP_TCPH1S3_02.dgn
TCP_TCPH1S3_02.dgn
Asset E

TCP TYPICAL SECTION - 20TH STREET

SECTION D-D
PHASE 1 STEP 3



LEGEND:

- WORKZONE
- TEMPORARY ASPHALT PAVEMENT
- NEWLY CONSTRUCTED PAVEMENT
- NEWLY CONSTRUCTED TEMP PAVEMENT
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
- VERTICAL PANELS
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HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

W 20TH STREET

TRAFFIC CONTROL PLAN
PHASE 1 STEP 3

STA 110+00.00 TO END

SHEET 3 OF 4

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=50'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 57 OF 278	

10/27/2025
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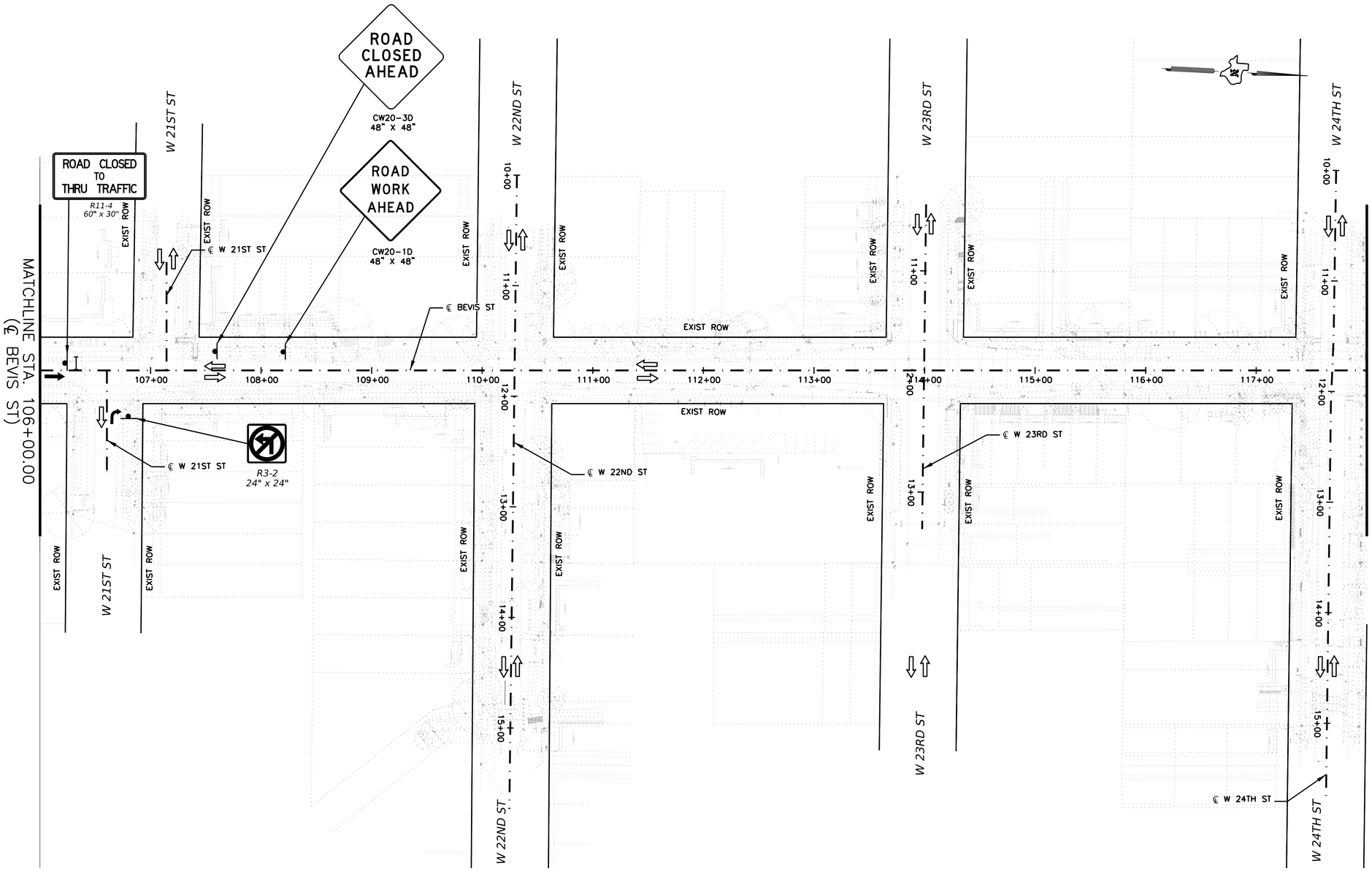
TCP_TCPH1S3_03.dgn



LEGEND:

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HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

BEVIS STREET

TRAFFIC CONTROL PLAN PHASE 1 STEP 3

STA 106+00.00 TO STA 118+00.00

SHEET 4 OF 4

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=50′	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 58 OF 278	

Asset E

10/27/2025
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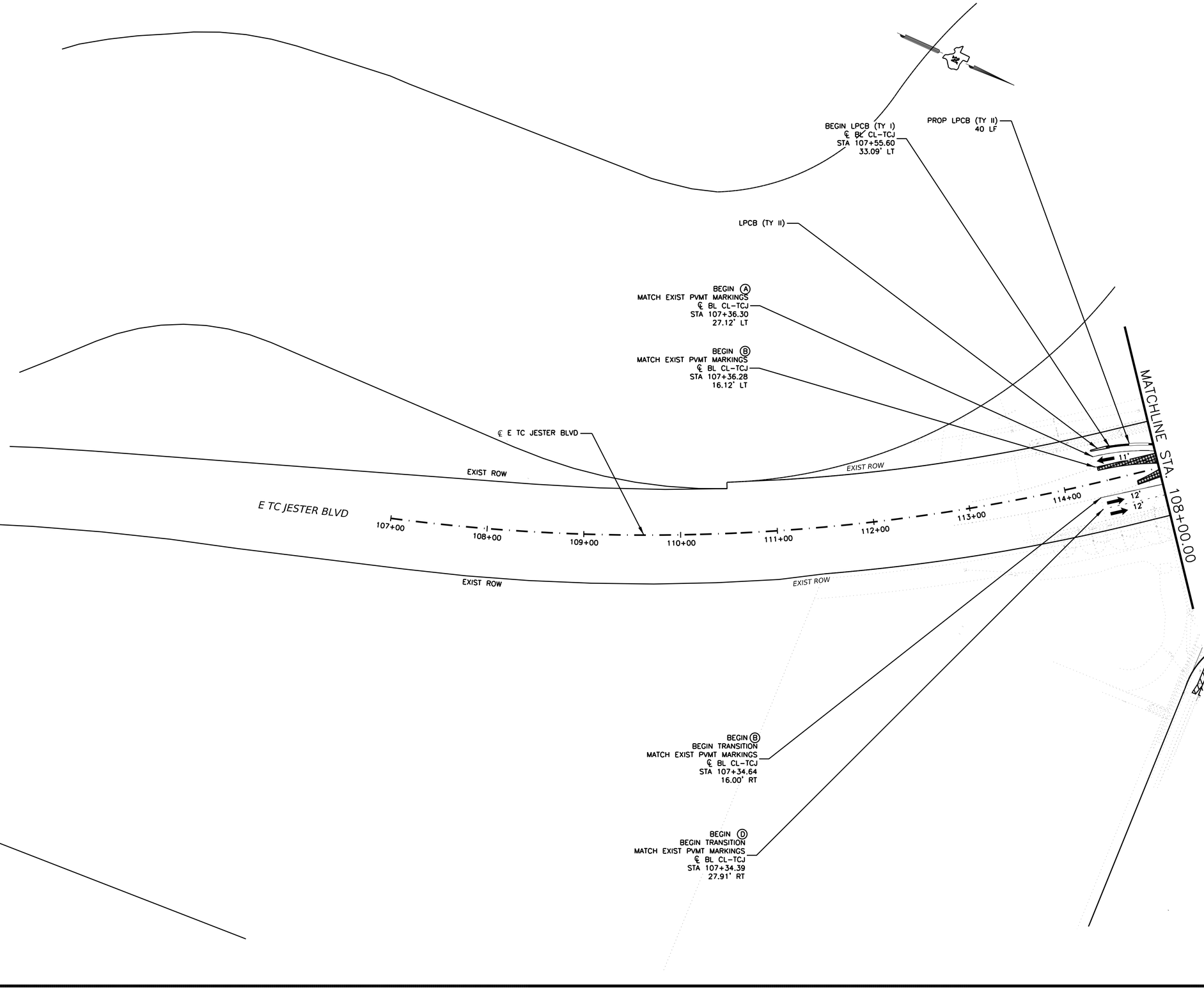
HTCPH1S3_04.dgn



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HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

E TC JESTER BLVD

TRAFFIC CONTROL PLAN
PHASE 2 STEP 1

BEGIN TO STA 108+00.00

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=50'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 59 OF 278	

Aspel E
10/27/2025
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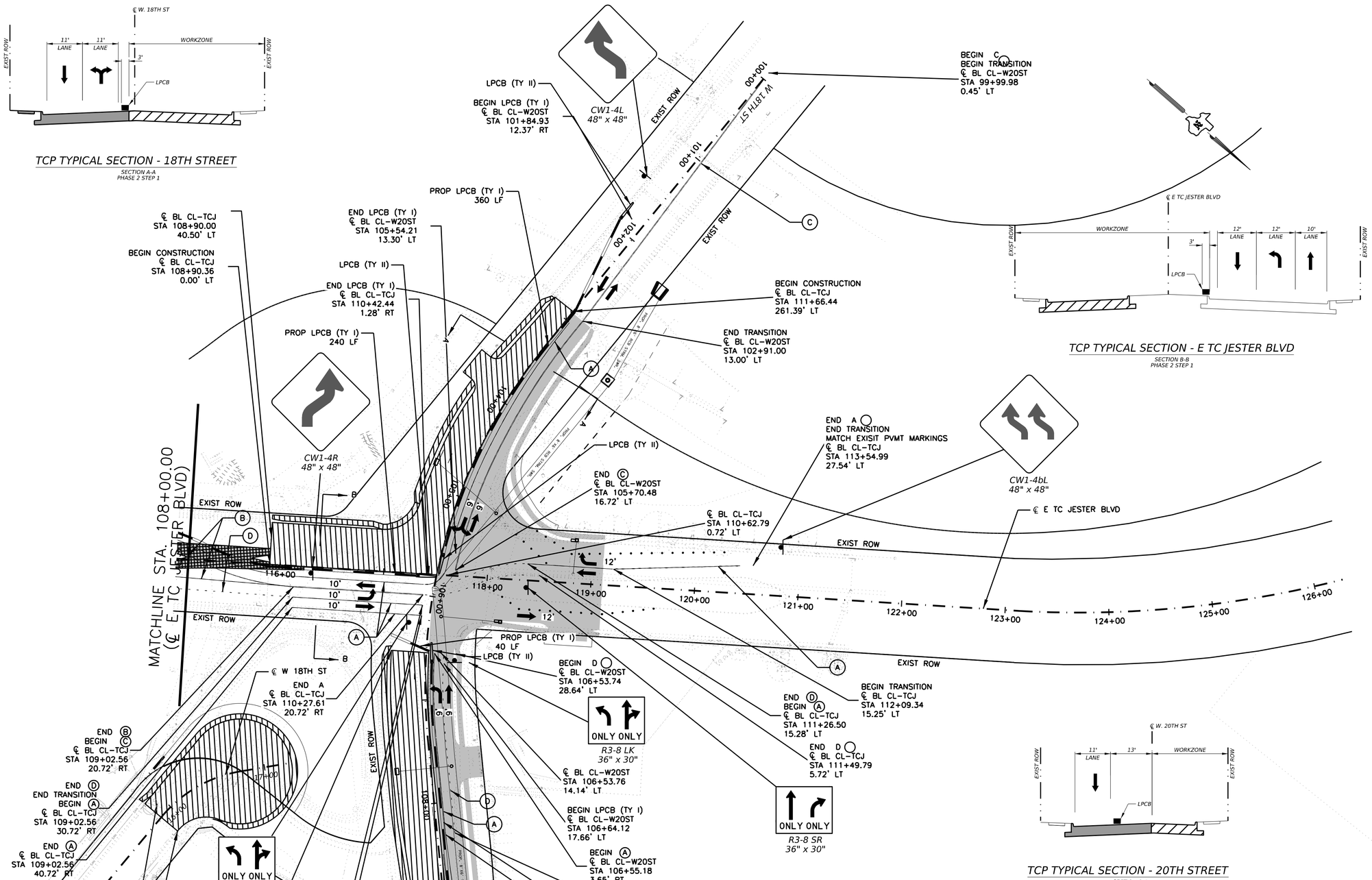
TURK_TCPH2S1_01.dgn

TCP TYPICAL SECTION - 18TH STREET

SECTION A-A
PHASE 2 STEP 1

TCP TYPICAL SECTION - E TC JESTER BLVD

SECTION B-B
PHASE 2 STEP 1



TCP TYPICAL SECTION - 20TH STREET

SECTION C-C
PHASE 2 STEP 1

LEGEND:

- WORKZONE
- TEMPORARY ASPHALT PAVEMENT
- NEWLY CONSTRUCTED PAVEMENT
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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

E TC JESTER BLVD

TRAFFIC CONTROL PLAN
PHASE 2 STEP 1

STA 108+00.00 TO END

SHEET 2 OF 3

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=50'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 60 OF 278	

10/27/2025
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TCR_TCPH2S1_02.dgn
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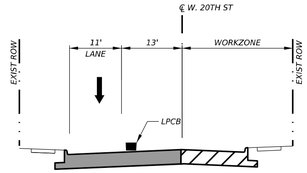
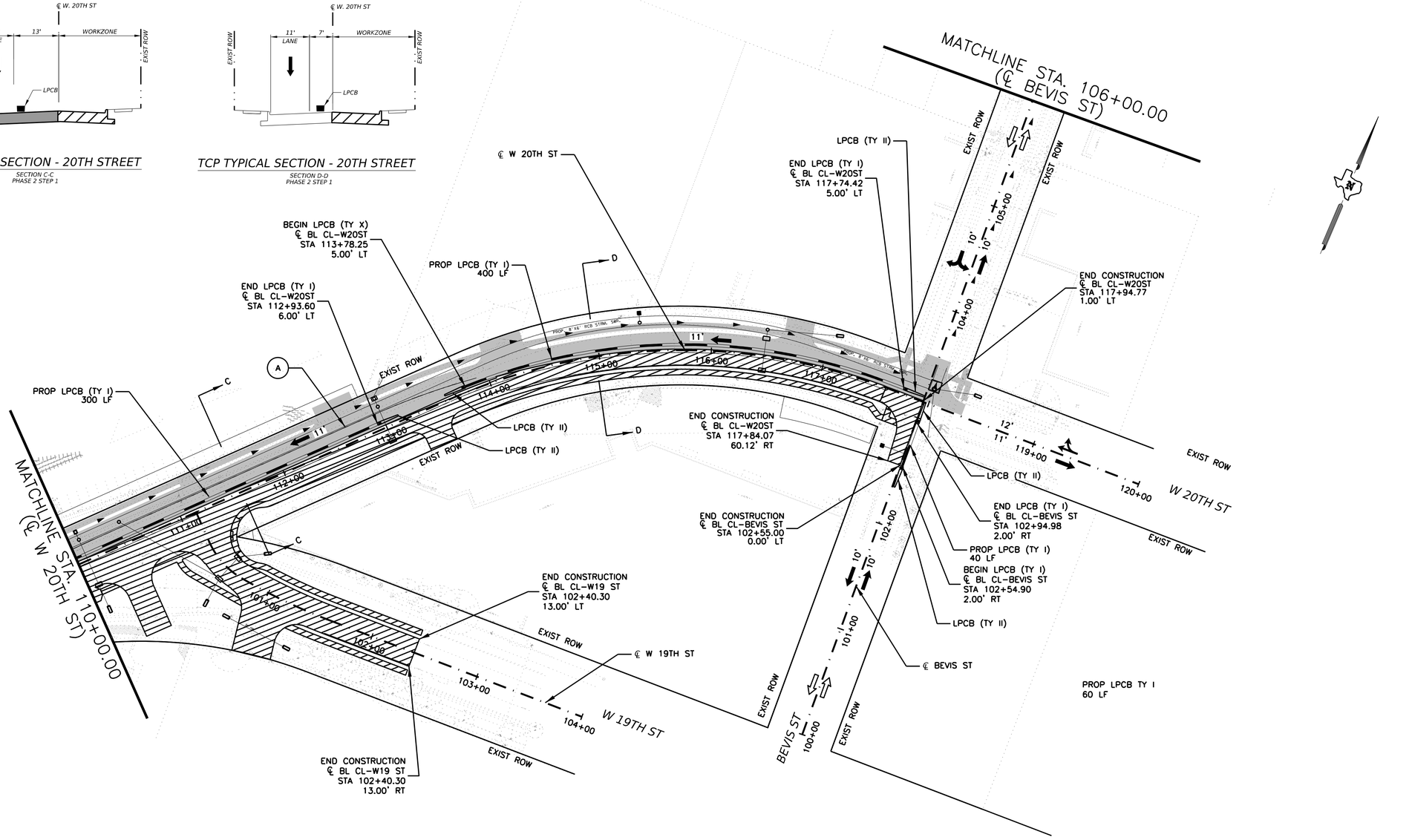


TCP TYPICAL SECTION - 20TH STREET

SECTION C-C
PHASE 2 STEP 1

TCP TYPICAL SECTION - 20TH STREET

SECTION D-D
PHASE 2 STEP 1



LEGEND:

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

W 20TH STREET

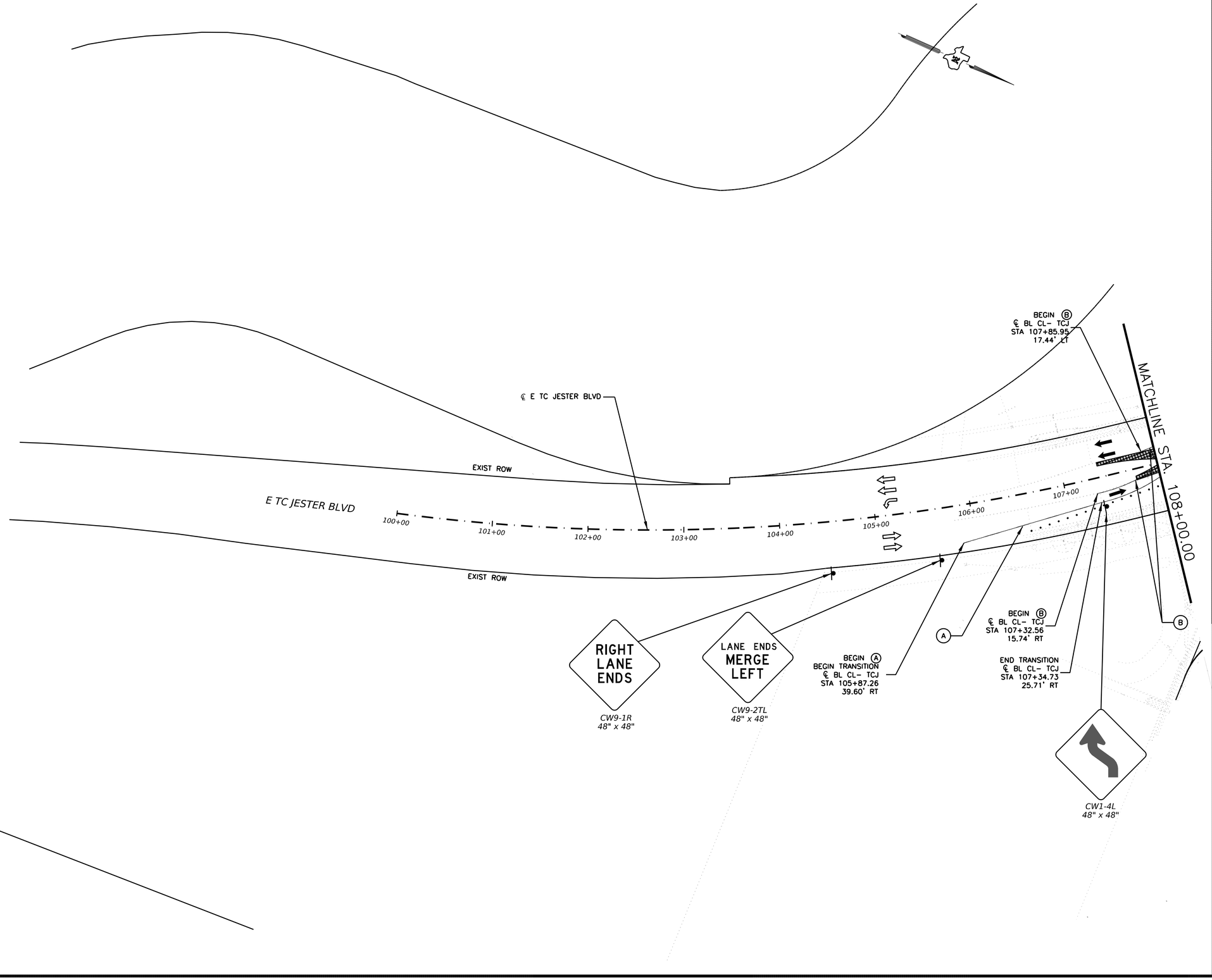
TRAFFIC CONTROL PLAN
PHASE 2 STEP 1

STA 110+00.00 TO END

SHEET 3 OF 3

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=50'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 61 OF 278	

10/27/2025
...\TURK_TCPH2S1_03.dgn
TURK_TCPH2S1_03.dgn
Asset E



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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

E TC JESTER BLVD

TRAFFIC CONTROL PLAN PHASE 2 STEP 2

BEGIN TO STA 108+00.00

SHEET 1 OF 5

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=50′	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 62 OF 278	

10/27/2025
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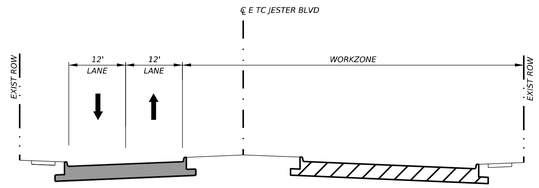
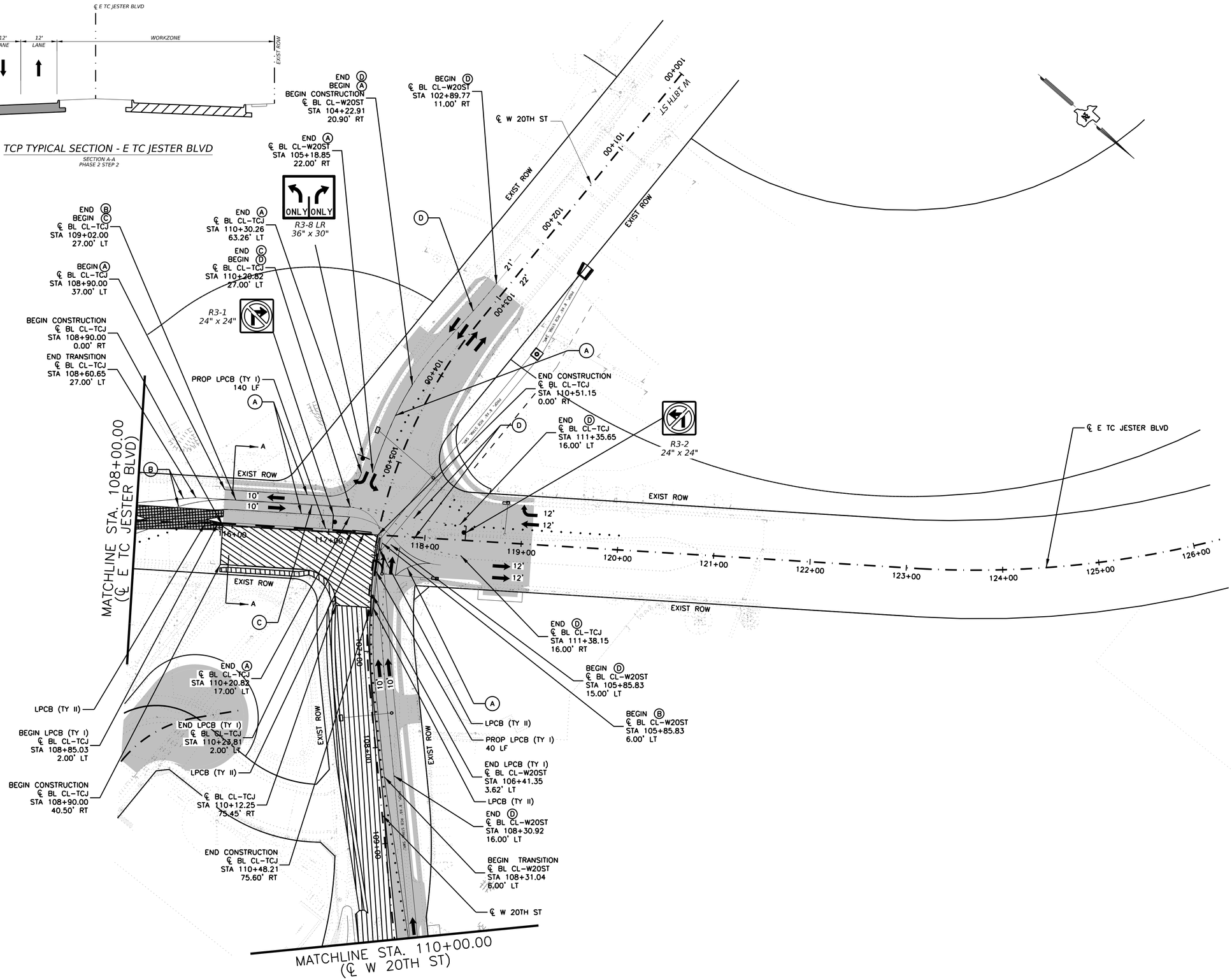
TCP2S2_01.dgn



TCP TYPICAL SECTION - E TC JESTER BLVD

SECTION A-A
PHASE 2 STEP 2



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Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 941-5581
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

E TC JESTER BLVD

TRAFFIC CONTROL PLAN
PHASE 2 STEP 2

STA 108+00.00 TO END)

SHEET 2 OF 5

WBS NUMBER	M-410291-0001-4
DRAWING SCALE	1"=50'
CITY OF HOUSTON PM	LOI MA
SHEET NO.	63 OF 278

FOR CITY OF HOUSTON USE ONLY

10/27/2025
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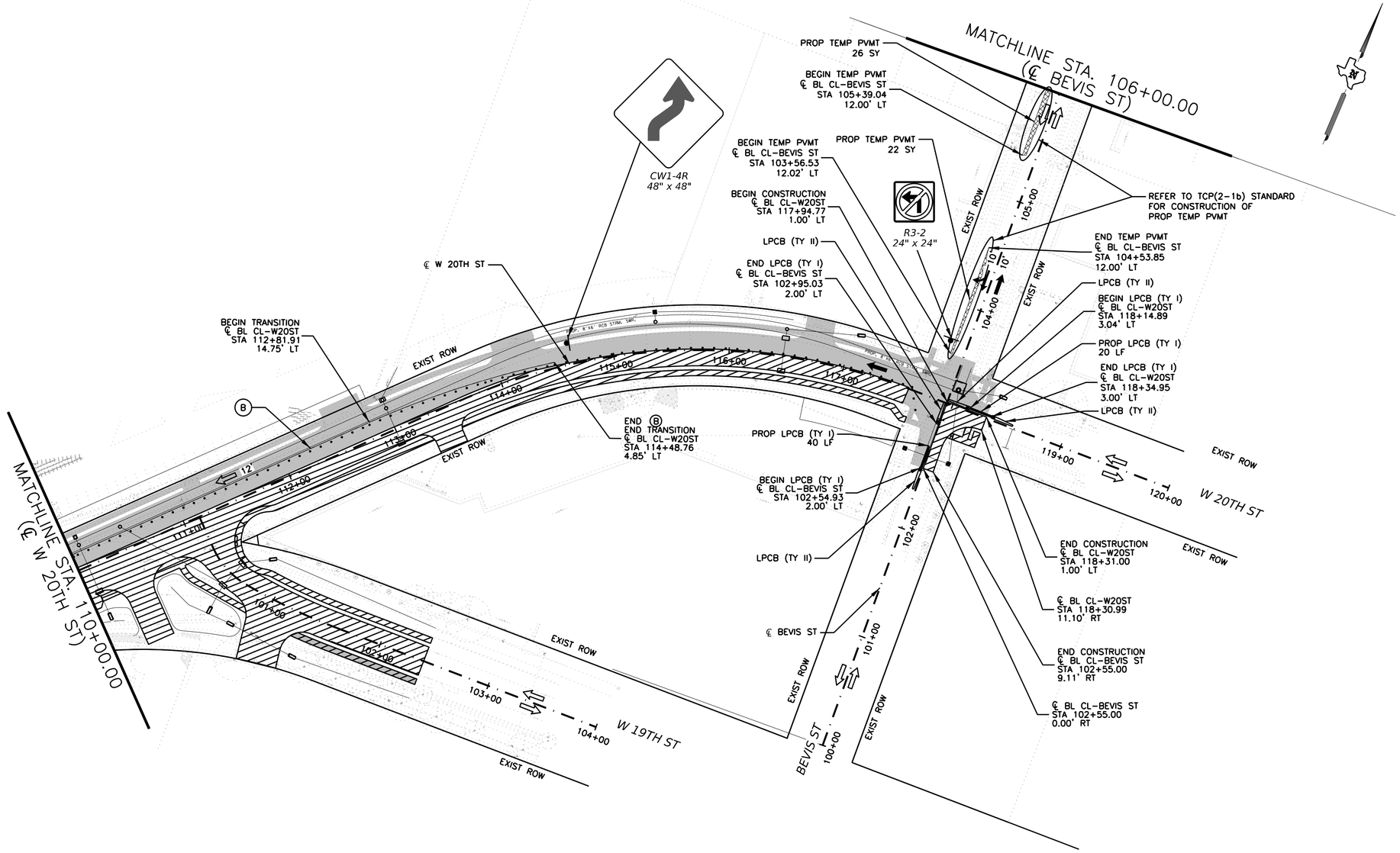
TCPH2S2_02.dgn



LEGEND:

- WORKZONE
- TEMPORARY ASPHALT PAVEMENT
- NEWLY CONSTRUCTED PAVEMENT
- NEWLY CONSTRUCTED TEMP PAVEMENT
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
- VERTICAL PANELS
- LOW PROFILE CONCRETE TRAFFIC BARRIER (LPCTB) (TYPE 1)
- LOW PROFILE CONCRETE TRAFFIC BARRIER (TYPE 2)

- (A) WK ZN PAV MRK REMOV 4" (W) (SLD)
- (B) WK ZN PAV MRK REMOV 4" (Y) (SLD)
- (C) WK ZN PAV MRK REMOV 4" (Y) (SLD)(DBL)
- (D) WK ZN PAV MRK REMOV 4" (W) (BRK)
- (E) WK ZN PAV MRK REMOV 4" (W) (CAT TRK)
- (F) WK ZN PAV MRK REMOV 4" (Y) (CAT TRK)
- (G) WK ZN PAV MRK REMOV 24" (W) (SLD)

NOTES:

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0′ 50′ 100′
SCALE: 1"=50′

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

W 20TH STREET

TRAFFIC CONTROL PLAN
PHASE 2 STEP 2

STA 110+00.00 TO END

SHEET 3 OF 5

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=50′	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 64 OF 278	

Asset E

10/27/2025
...\TCP\TCPH2S2_03.dgn

LEGEND:

- WORKZONE
- TEMPORARY ASPHALT PAVEMENT
- NEWLY CONSTRUCTED PAVEMENT
- NEWLY CONSTRUCTED TEMP PAVEMENT
- TEMPORARY GROUND MOUNTED SIGN
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

BEVIS STREET

TRAFFIC CONTROL PLAN PHASE 2 STEP 2

STA 106+00.00 TO STA 118+00.00

SHEET 4 OF 5

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=50'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 65 OF 278	

10/27/2025
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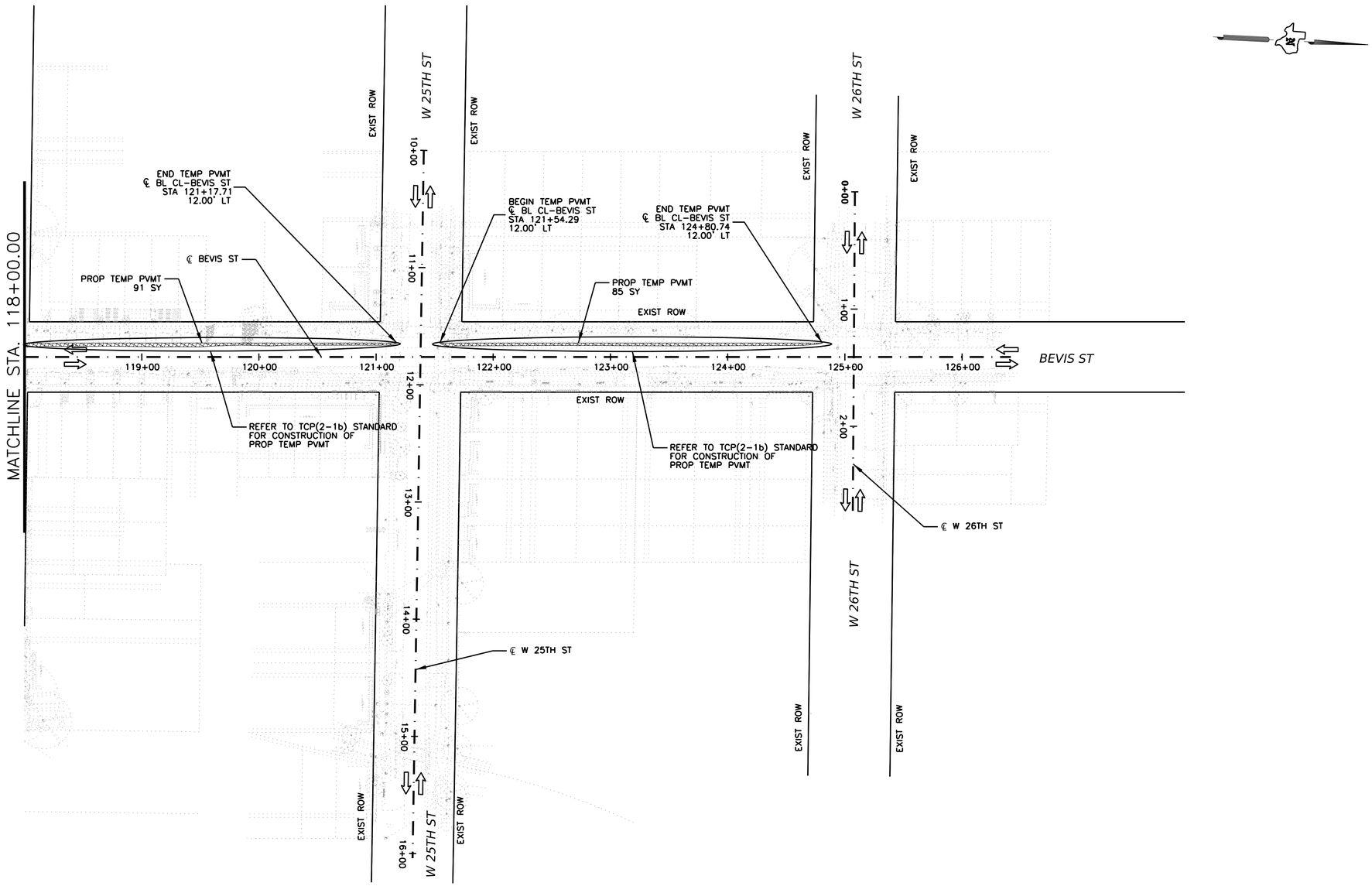

LEGEND:

- WORKZONE
- TEMPORARY ASPHALT PAVEMENT
- NEWLY CONSTRUCTED PAVEMENT
- NEWLY CONSTRUCTED TEMP PAVEMENT
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
- VERTICAL PANELS
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SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

BEVIS STREET

TRAFFIC CONTROL PLAN
PHASE 2 STEP 2

STA 118+00.00 TO END

SHEET 5 OF 5

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=50'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 66 OF 278	

10/27/2025
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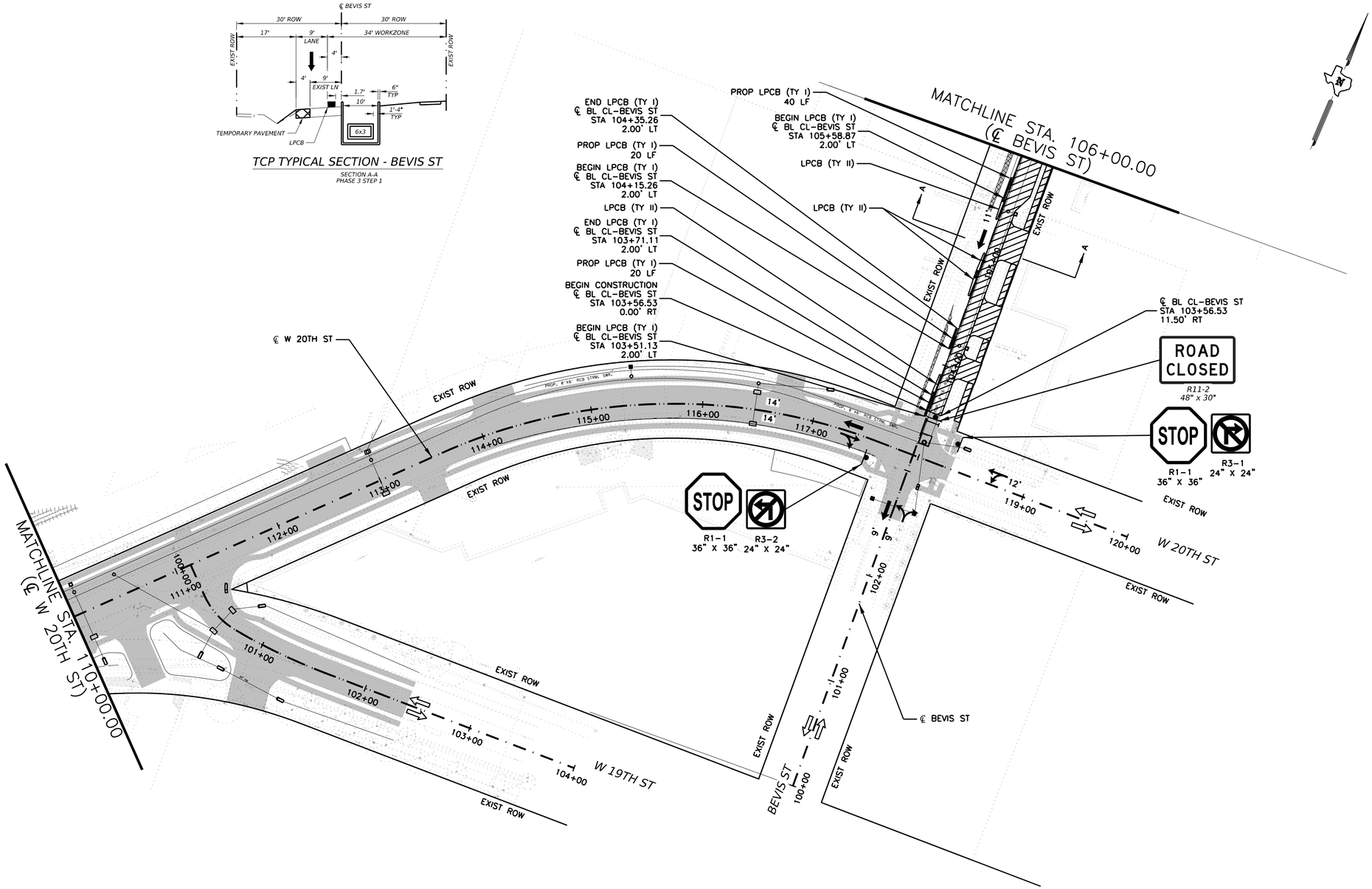
TCP TYPICAL SECTION - BEVIS ST

SECTION A-A
PHASE 3 STEP 1



LEGEND:

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- TEMPORARY ASPHALT PAVEMENT
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HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

W 20TH STREET

TRAFFIC CONTROL PLAN
PHASE 3 STEP 1

STA 110+00.00 TO END

SHEET 1 OF 3

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=50'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **67** OF **278**	

10/27/2025
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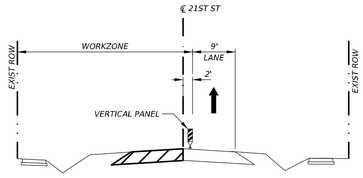
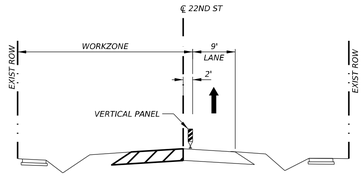
TUR_TCPH3S1_03.dgn



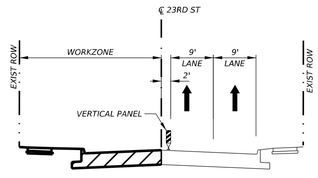
TCP TYPICAL SECTION - 21ST ST

SECTION B-B
PHASE 3 STEP 1



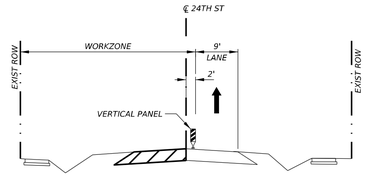
TCP TYPICAL SECTION - 22ND ST

SECTION C-C
PHASE 3 STEP 1



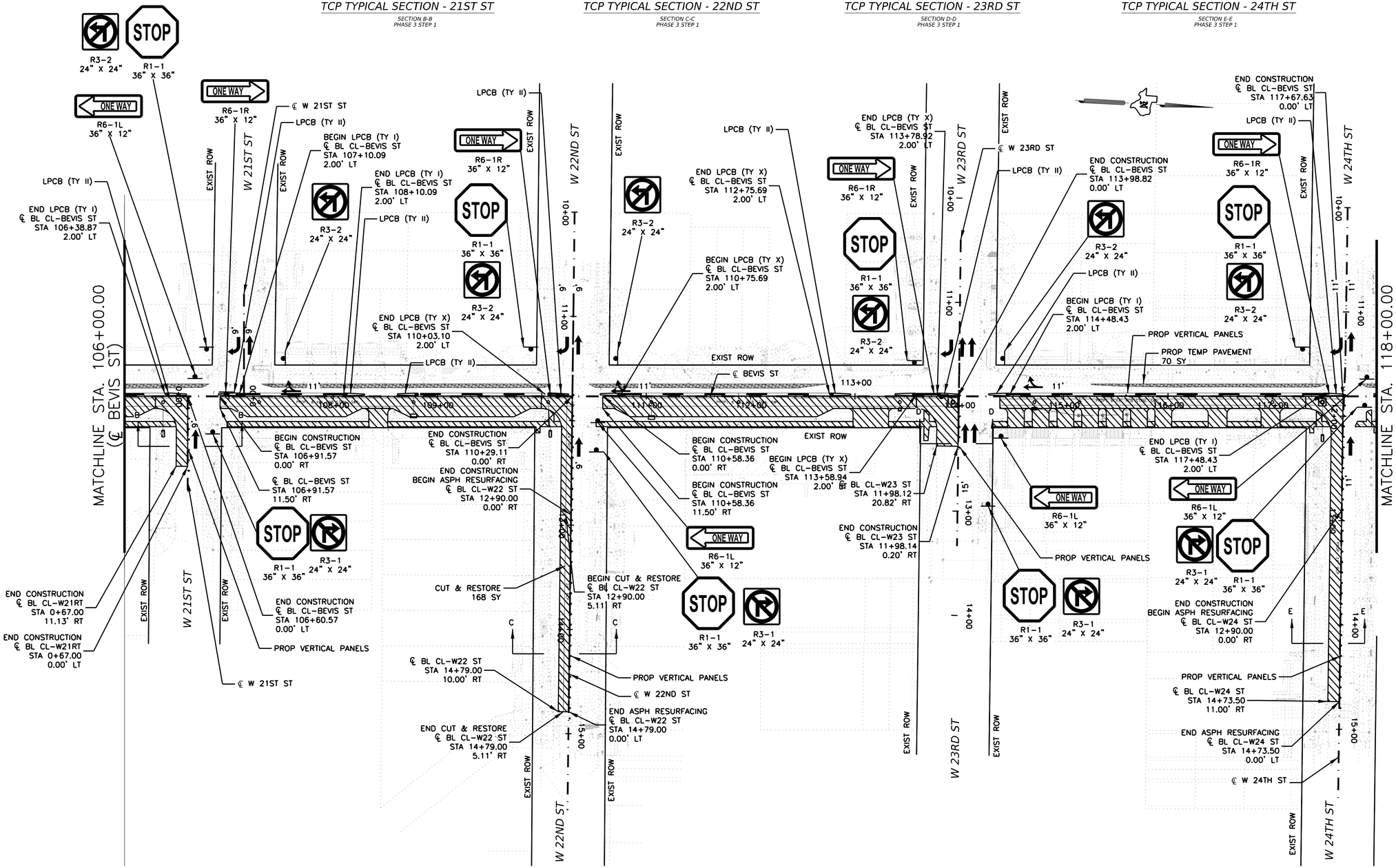
TCP TYPICAL SECTION - 23RD ST

SECTION D-D
PHASE 3 STEP 1



TCP TYPICAL SECTION - 24TH ST

SECTION E-E
PHASE 3 STEP 1



LEGEND:

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SURVEYED BY: KUO
FB NO. P-6325

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HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

BEVIS STREET

TRAFFIC CONTROL PLAN
PHASE 3 STEP 1

STA 106+00.00 TO STA 118+00.00

SHEET 2 OF 3

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=50'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 68 OF 278	

10/27/2025
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AsgelE

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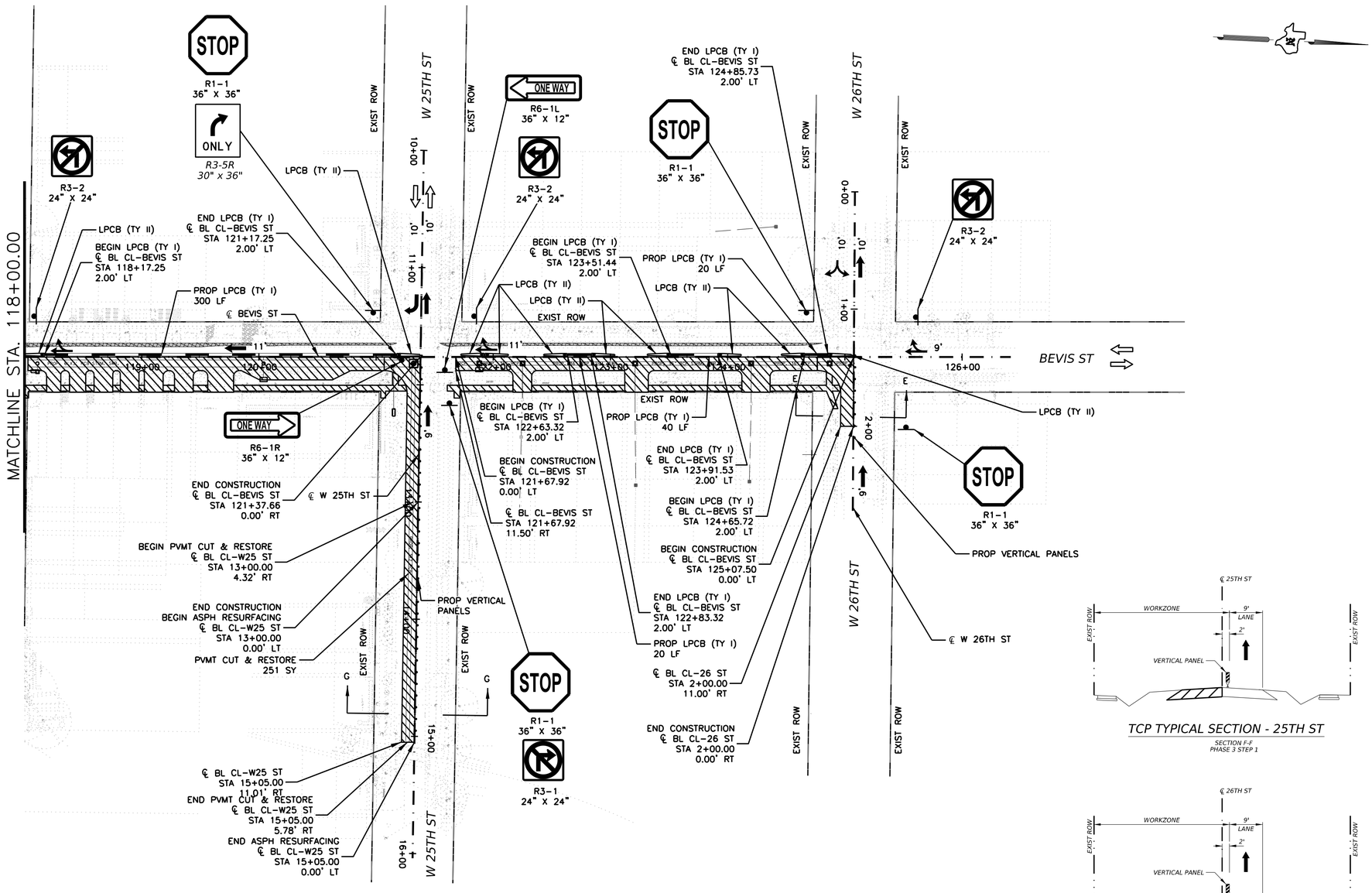
AsgelE



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0′ 50′ 100′
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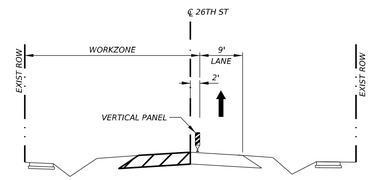
TCP TYPICAL SECTION - 25TH ST
SECTION F-F
PHASE 3 STEP 1



TCP TYPICAL SECTION - 26TH ST
SECTION G-G
PHASE 3 STEP 1

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

BEVIS STREET

TRAFFIC CONTROL PLAN PHASE 3 STEP 1

STA 118+00.00 TO END

SHEET 3 OF 3

WBS NUMBER	M-410291-0001-4
DRAWING SCALE	1"=50′
CITY OF HOUSTON PM	LOI MA
SHEET NO.	69 OF 278

FOR CITY OF HOUSTON USE ONLY

10/27/2025
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TUR_TCPHS1_05.dgn
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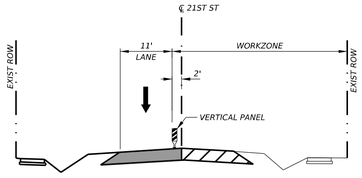
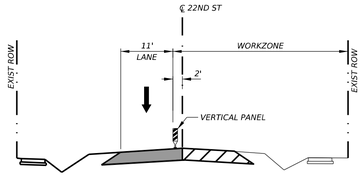


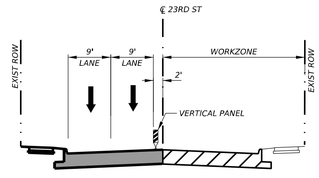
TCP TYPICAL SECTION - 21ST ST

SECTION A-A
PHASE 3 STEP 2



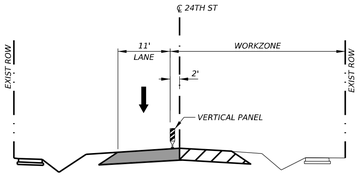
TCP TYPICAL SECTION - 22ND ST

SECTION B-B
PHASE 3 STEP 2



TCP TYPICAL SECTION - 23RD ST

SECTION C-C
PHASE 3 STEP 2

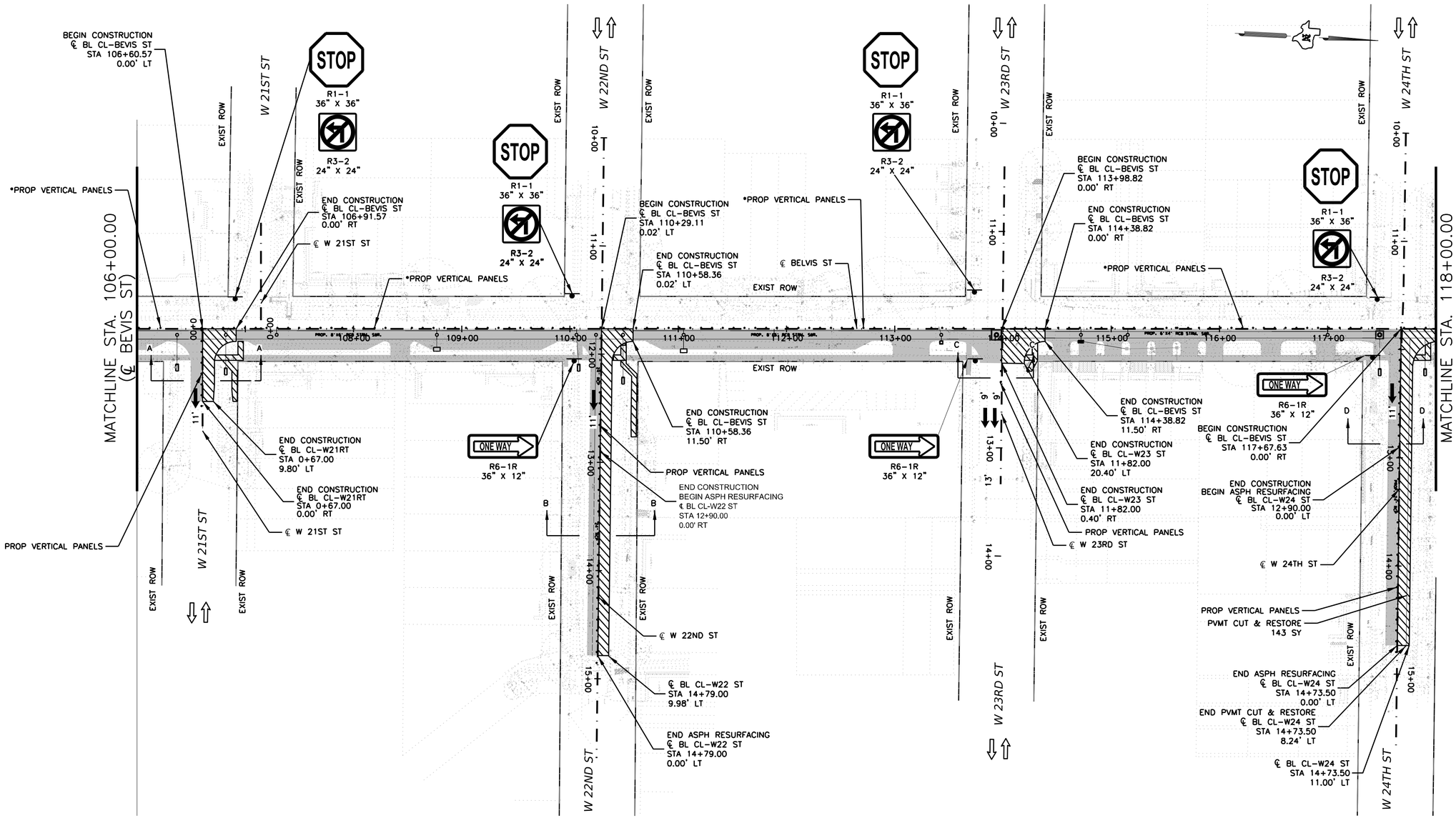


TCP TYPICAL SECTION - 24TH ST

SECTION D-D
PHASE 3 STEP 2

NOTE:

- USE PROP VERTICAL PANELS ON BELVIS ST IF CONSTRUCTION IS FINISHED. IF CONSTRUCTION IS STILL ONGOING, USE LPCB (TYPE I) FROM THE PREVIOUS PHASE.



LEGEND:

- WORKZONE
- TEMPORARY ASPHALT PAVEMENT
- NEWLY CONSTRUCTED PAVEMENT
- NEWLY CONSTRUCTED TEMP PAVEMENT
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
- VERTICAL PANELS
- LOW PROFILE CONCRETE TRAFFIC BARRIER (LPCTB) (TYPE 1)
- LOW PROFILE CONCRETE TRAFFIC BARRIER (TYPE 2)

- (A) WK ZN PAV MRK REMOV 4" (W) (SLD)
- (B) WK ZN PAV MRK REMOV 4" (Y) (SLD)
- (C) WK ZN PAV MRK REMOV 4" (Y) (SLD)(DBL)
- (D) WK ZN PAV MRK REMOV 4" (W) (BRK)
- (E) WK ZN PAV MRK REMOV 4" (W) (CAT TRK)
- (F) WK ZN PAV MRK REMOV 4" (Y) (CAT TRK)
- (G) WK ZN PAV MRK REMOV 24" (W) (SLD)

NOTES:

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0' 50' 100'
SCALE: 1"=50'

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

BEVIS STREET

TRAFFIC CONTROL PLAN
PHASE 3 STEP 2

STA 106+00.00 TO STA 118+00.00

SHEET 1 OF 2

WBS NUMBER	M-410291-0001-4
DRAWING SCALE	1"=50'
CITY OF HOUSTON PM	LOI MA
SHEET NO. 70 OF 278	

FOR CITY OF HOUSTON USE ONLY

10/27/2025
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UR_TCPHASE2_04.dgn
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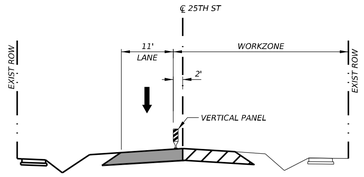
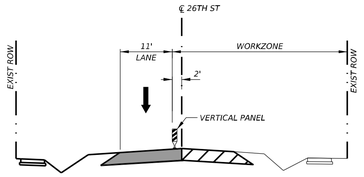


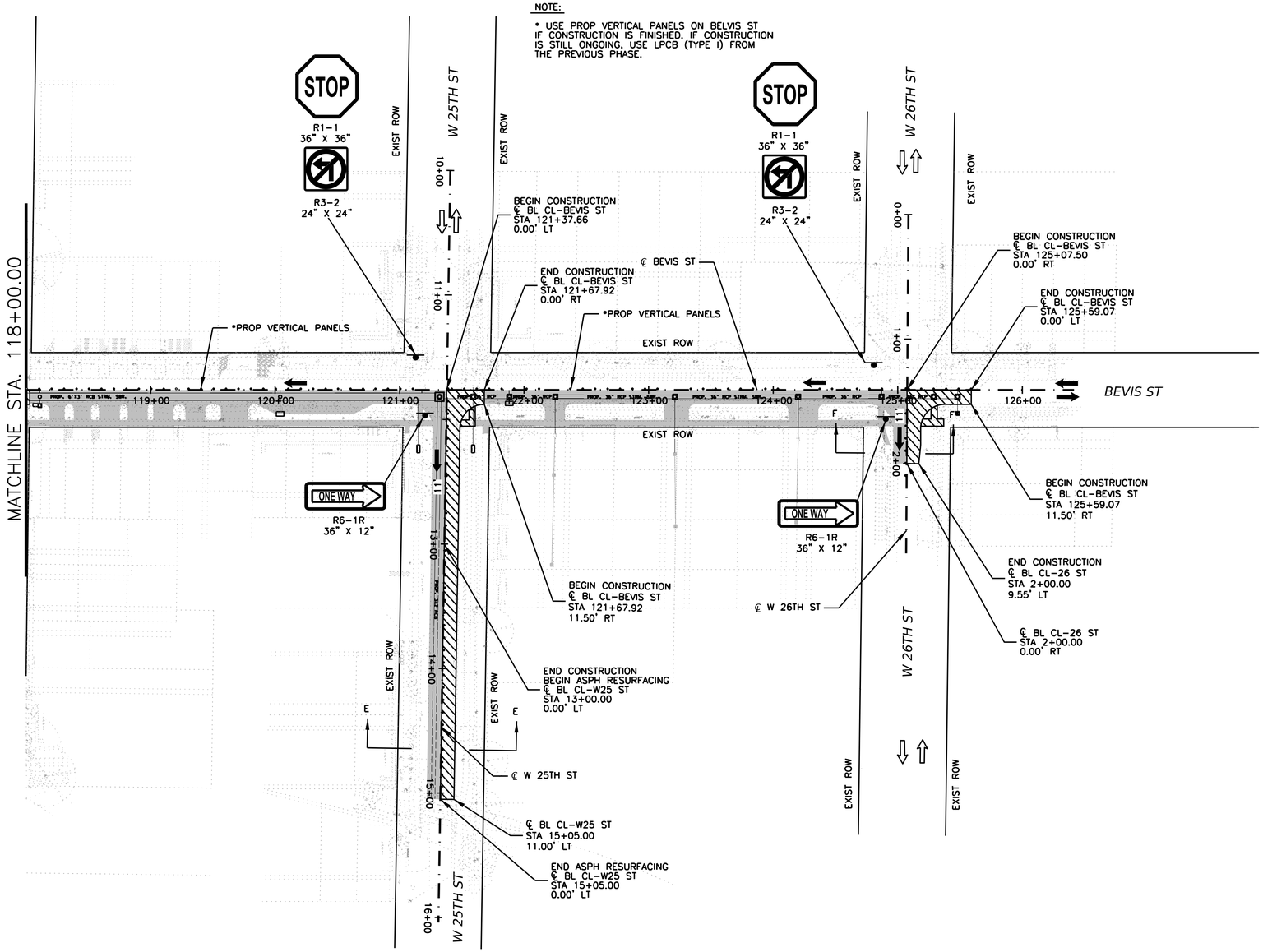
TCP TYPICAL SECTION - 25TH ST

SECTION E-E
PHASE 3 STEP 2



TCP TYPICAL SECTION - 26TH ST

SECTION F-F
PHASE 3 STEP 2



LEGEND:

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- TEMPORARY ASPHALT PAVEMENT
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HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

BEVIS STREET

TRAFFIC CONTROL PLAN
PHASE 3 STEP 2

STA 118+00.00 TO END

SHEET 2 OF 2

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=50'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 71 OF 278	

10/27/2025
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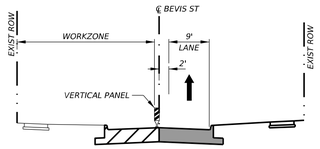
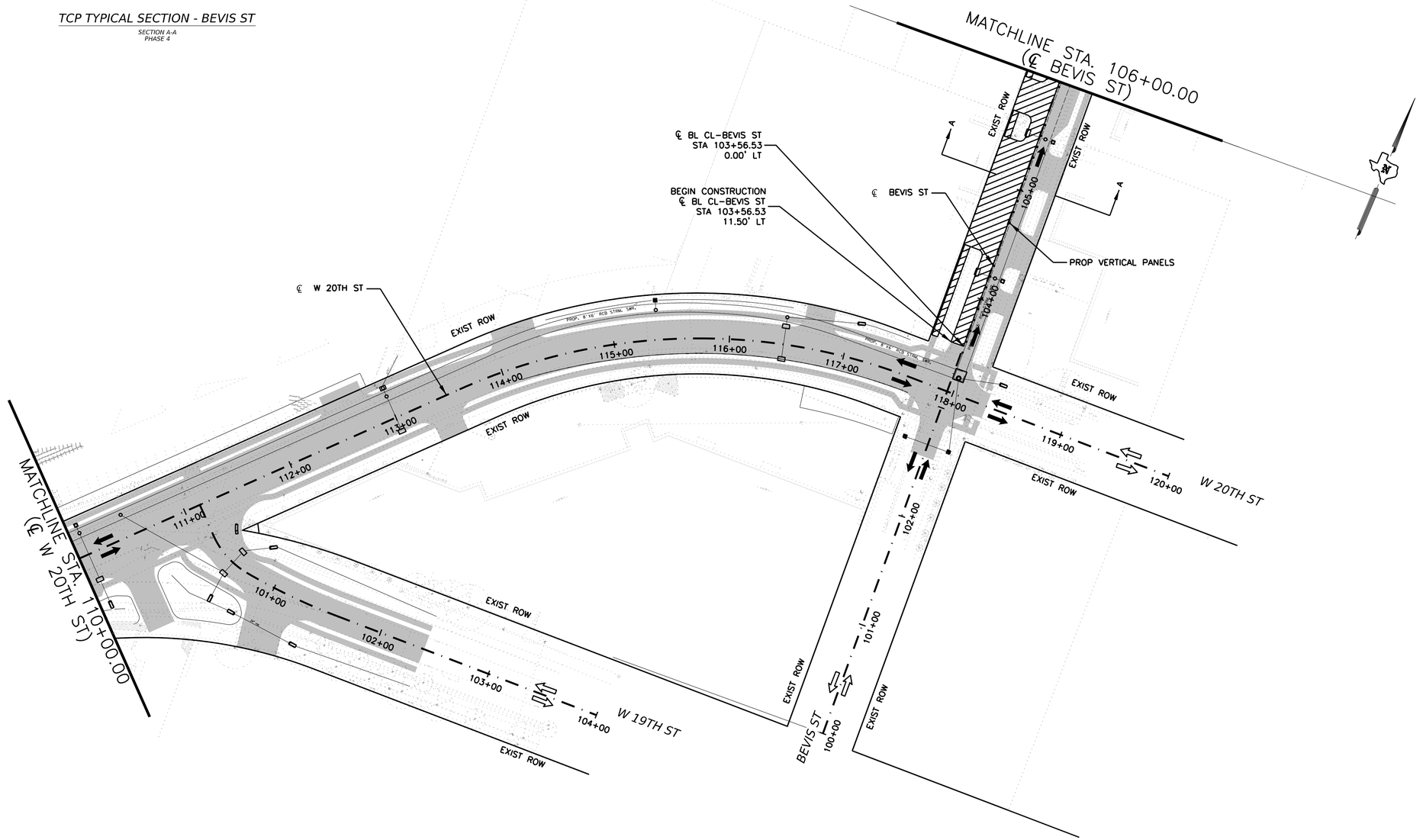


TCP TYPICAL SECTION - BEVIS ST

SECTION A-A
PHASE 4



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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

W 20TH STREET

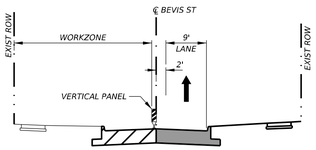
TRAFFIC CONTROL PLAN
PHASE 4 STEP 1

STA 110+00.00 TO END

SHEET 1 OF 3

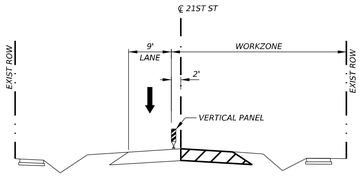
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=50'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 72 OF 278	

10/27/2025
TURK_TCPH4S1_03.dgn
Asset E



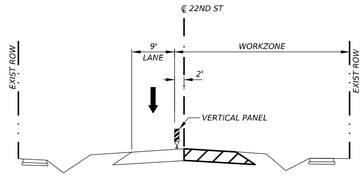
TCP TYPICAL SECTION - BEVIS ST

SECTION A-A
PHASE 4



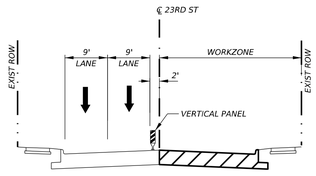
TCP TYPICAL SECTION - 21ST ST

SECTION B-B
PHASE 4 STEP 1



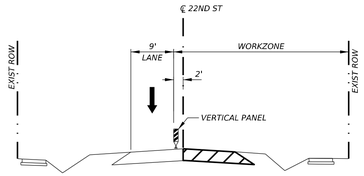
TCP TYPICAL SECTION - 22ND ST

SECTION C-C
PHASE 4 STEP 1



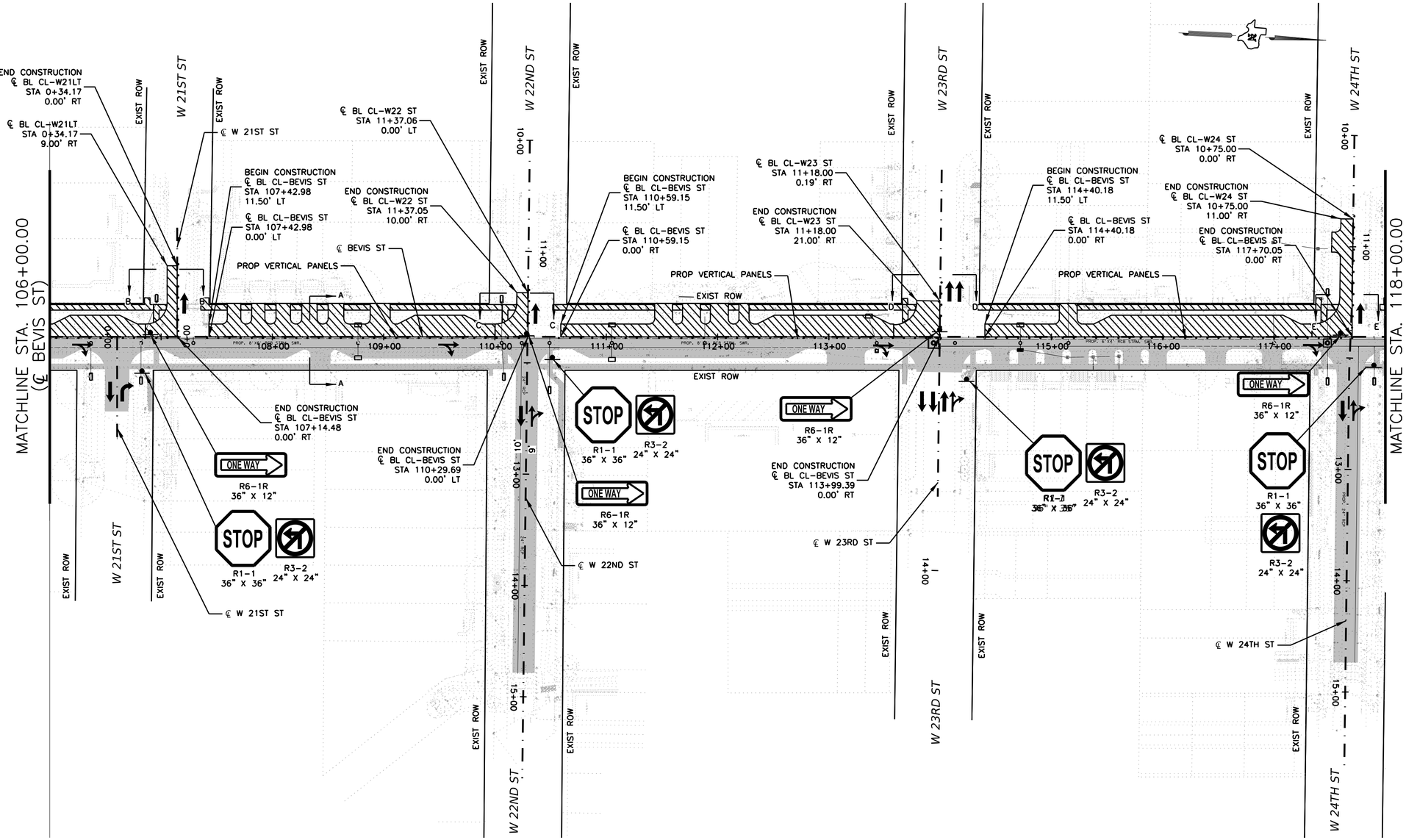
TCP TYPICAL SECTION - 23RD ST

SECTION D-D
PHASE 4 STEP 1



TCP TYPICAL SECTION - 24TH ST

SECTION E-E
PHASE 4 STEP 1



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TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

BEVIS STREET

TRAFFIC CONTROL PLAN
PHASE 4 STEP 2

STA 106+00.00 TO STA 118+00.00

SHEET 2 OF 3

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=50'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 73 OF 278	

Asset E
10/27/2025
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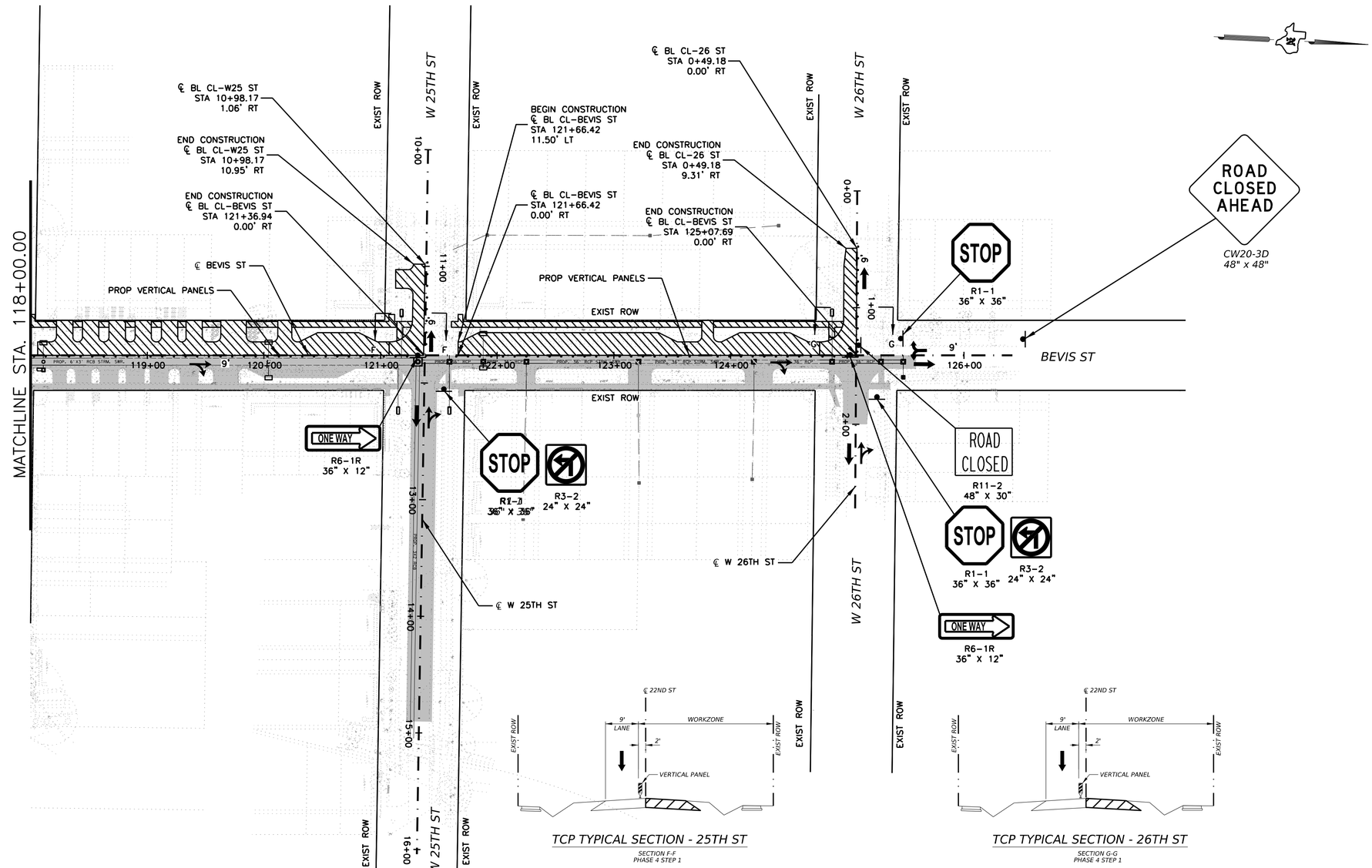

TCP TYPICAL SECTION - 25TH ST

SECTION F-F
PHASE 4 STEP 1

TCP TYPICAL SECTION - 26TH ST

SECTION G-G
PHASE 4 STEP 1

LEGEND:

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CITY OF HOUSTON
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TURKEY GULLY

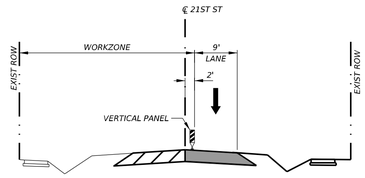
BEVIS STREET

TRAFFIC CONTROL PLAN
PHASE 4 STEP 2

STA 118+00.00 TO END

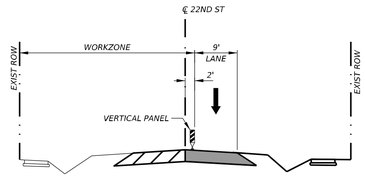
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=50'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 74 OF 278	

10/27/2025
...\TCP\TCPH4S1_05.dgn



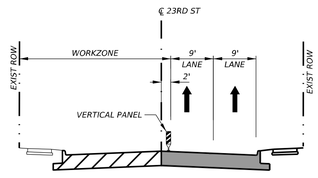
TCP TYPICAL SECTION - 21ST ST

SECTION A-A
PHASE 4 STEP 2



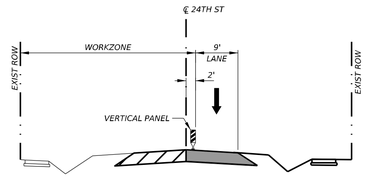
TCP TYPICAL SECTION - 22ND ST

SECTION B-B
PHASE 4 STEP 2



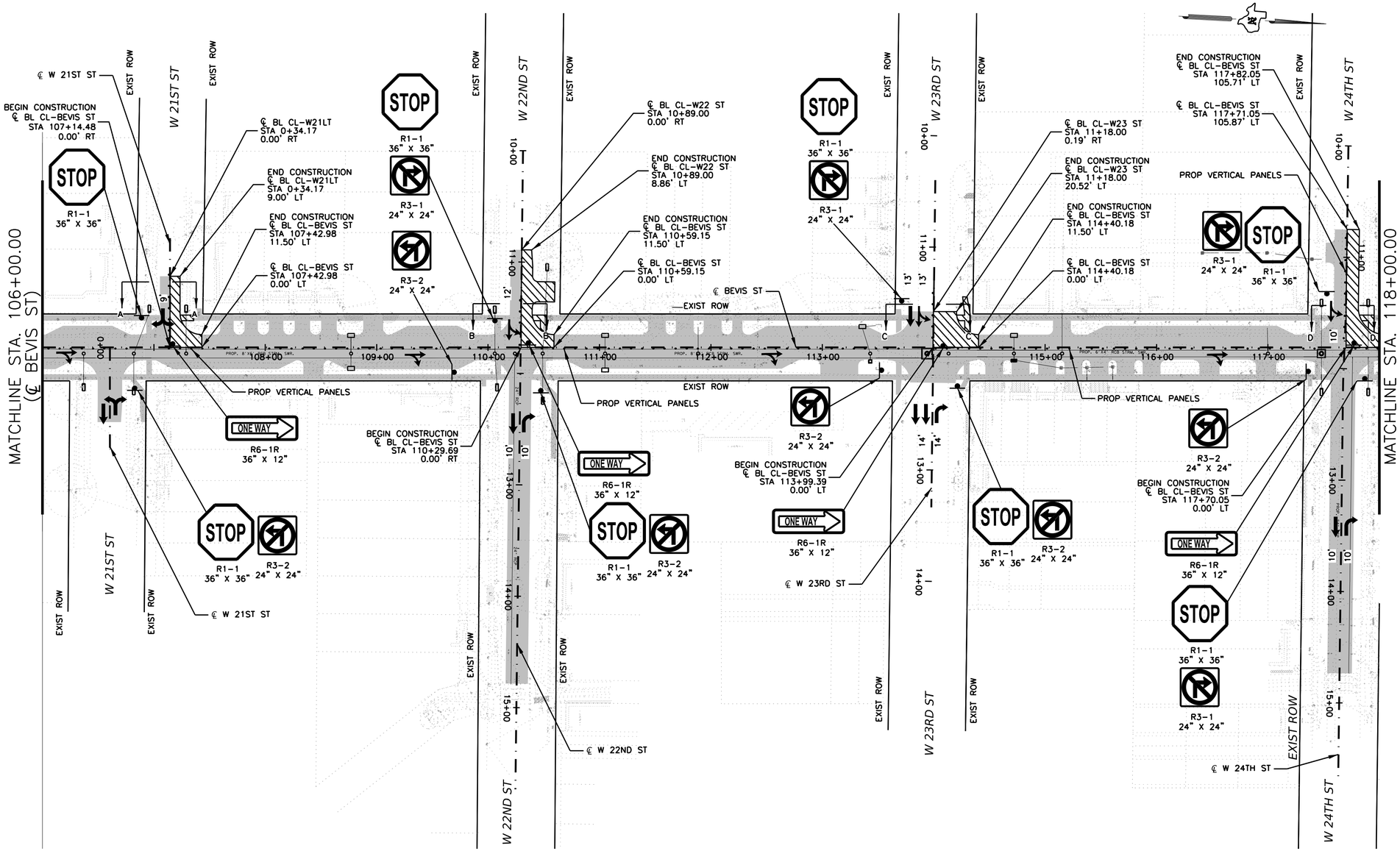
TCP TYPICAL SECTION - 23RD ST

SECTION C-C
PHASE 4 STEP 1



TCP TYPICAL SECTION - 24TH ST

SECTION D-D
PHASE 4 STEP 2



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HOUSTON PUBLIC WORKS

TURKEY GULLY

BEVIS STREET

TRAFFIC CONTROL PLAN
PHASE 4 STEP 2

STA 106+00.00 TO STA 118+00.00

SHEET 1 OF 2

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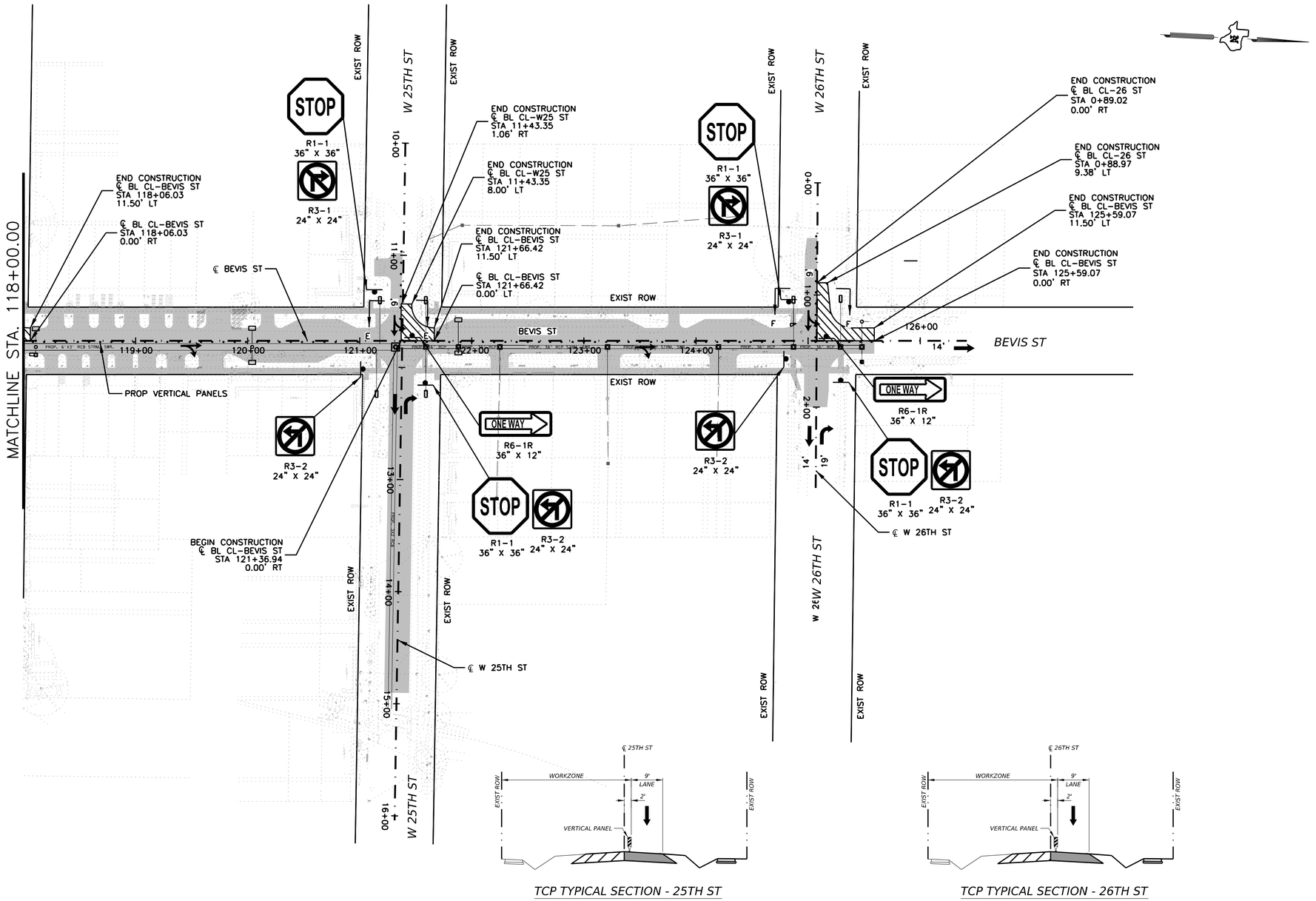
LOI MA	
SHEET NO. 75 OF 278	

10/27/2025
...\TCP\TCPH4S2_04.dgn
TCPH4S2_04.dgn
Asset E



TCP TYPICAL SECTION - 25TH ST

SECTION E-E
PHASE 4 STEP 2

TCP TYPICAL SECTION - 26TH ST

SECTION F-F
PHASE 4 STEP 2

LEGEND:

- WORKZONE
- TEMPORARY ASPHALT PAVEMENT
- NEWLY CONSTRUCTED PAVEMENT
- NEWLY CONSTRUCTED TEMP PAVEMENT
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
- VERTICAL PANELS
- LOW PROFILE CONCRETE TRAFFIC BARRIER (LPCTB) (TYPE 1)
- LOW PROFILE CONCRETE TRAFFIC BARRIER (TYPE 2)

- (A) WK ZN PAV MRK REMOV 4" (W) (SLD)
- (B) WK ZN PAV MRK REMOV 4" (Y) (SLD)
- (C) WK ZN PAV MRK REMOV 4" (Y) (SLD)(DBL)
- (D) WK ZN PAV MRK REMOV 4" (W) (BRK)
- (E) WK ZN PAV MRK REMOV 4" (W) (CAT TRK)
- (F) WK ZN PAV MRK REMOV 4" (Y) (CAT TRK)
- (G) WK ZN PAV MRK REMOV 24" (W) (SLD)

NOTES:

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0' 50' 100'
SCALE: 1"=50'

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(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

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FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

BEVIS STREET

TRAFFIC CONTROL PLAN
PHASE 4 STEP 2

STA 118+00.00 TO END

SHEET 2 OF 52

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=50'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 76 OF 278	

10/27/2025
...\TURK_TCPH4S2_05.dgn
Asgel E

LEGEND:

- CONSTRUCTION THIS PHASE / STEP
- CONSTRUCTION PREVIOUS PHASE / STEP
- DETOUR ROUTE
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
- EXISTING TRAFFIC
- PROPOSED TRAFFIC

* CHANGE STREET NAME SIGN (M4-12T) TO MATCH CLOSED INTERSECTION

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(A) *
M4-12T VARX12
CLOSED
DETOUR
M4-9L 30x24

(B) *
M4-12T VARX12
CLOSED
DETOUR
M4-9R 30x24

(C) *
M4-12T VARX12
CLOSED
DETOUR
M4-9S 30x24

(D) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TR 30x30

(E) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TL 30x30

(F)
ROAD CLOSED TO THRU TRAFFIC
R11-4 60x30

(G)
ROAD CLOSED
R11-2 48x30

(H)
ROAD CLOSED LOCAL TRAFFIC ONLY
R11-3 60x30

(I)
R3-2 24" x 24"

(J)
R3-1 24" x 24"

(X)
END DETOUR
M4-8a

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HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

PHASE 1
W 20TH STREET

SHEET 1 OF 28

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 77 OF 278	

CarlosR
10/27/2025
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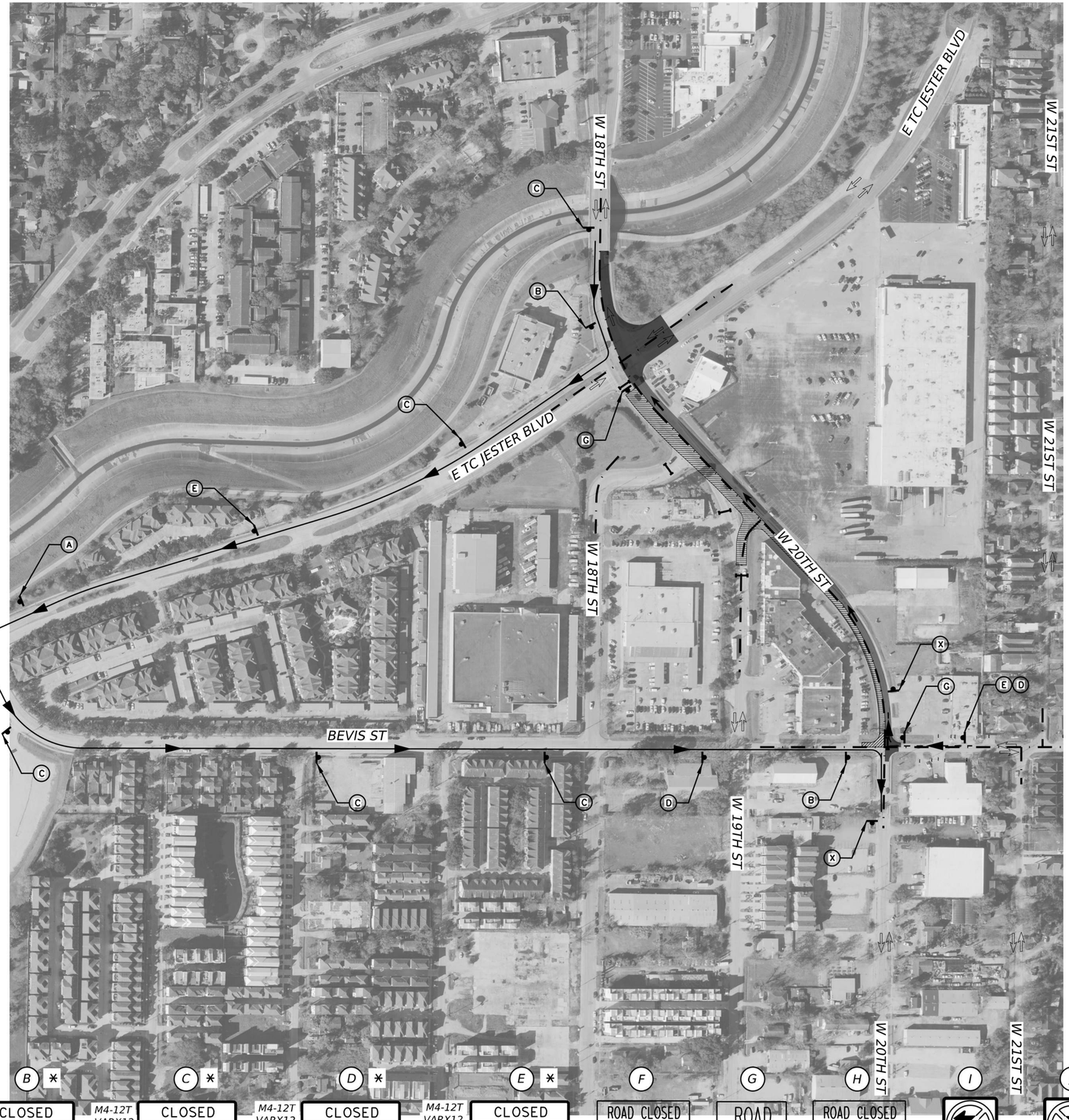

LEGEND:

- CONSTRUCTION THIS PHASE / STEP
- CONSTRUCTION PREVIOUS PHASE / STEP
- DETOUR ROUTE
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
- EXISTING TRAFFIC
- PROPOSED TRAFFIC

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(A) *
M4-12T VARX12
CLOSED
DETOUR
M4-9L 30x24

(B) *
M4-12T VARX12
CLOSED
DETOUR
M4-9R 30x24

(C) *
M4-12T VARX12
CLOSED
DETOUR
M4-9S 30x24

(D) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TR 30x30

(E) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TL 30x30

(F)
ROAD CLOSED TO THRU TRAFFIC
R11-4 60x30

(G)
ROAD CLOSED
R11-2 48x30

(H)
ROAD CLOSED LOCAL TRAFFIC ONLY
R11-3 60x30

(I)
R3-2 24" x 24"

(J)
R3-1 24" x 24"

(X)
END DETOUR
M4-8a

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HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

PHASE 2
W 20TH STREET

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 78 OF 278	

10/27/2025
CarlosR
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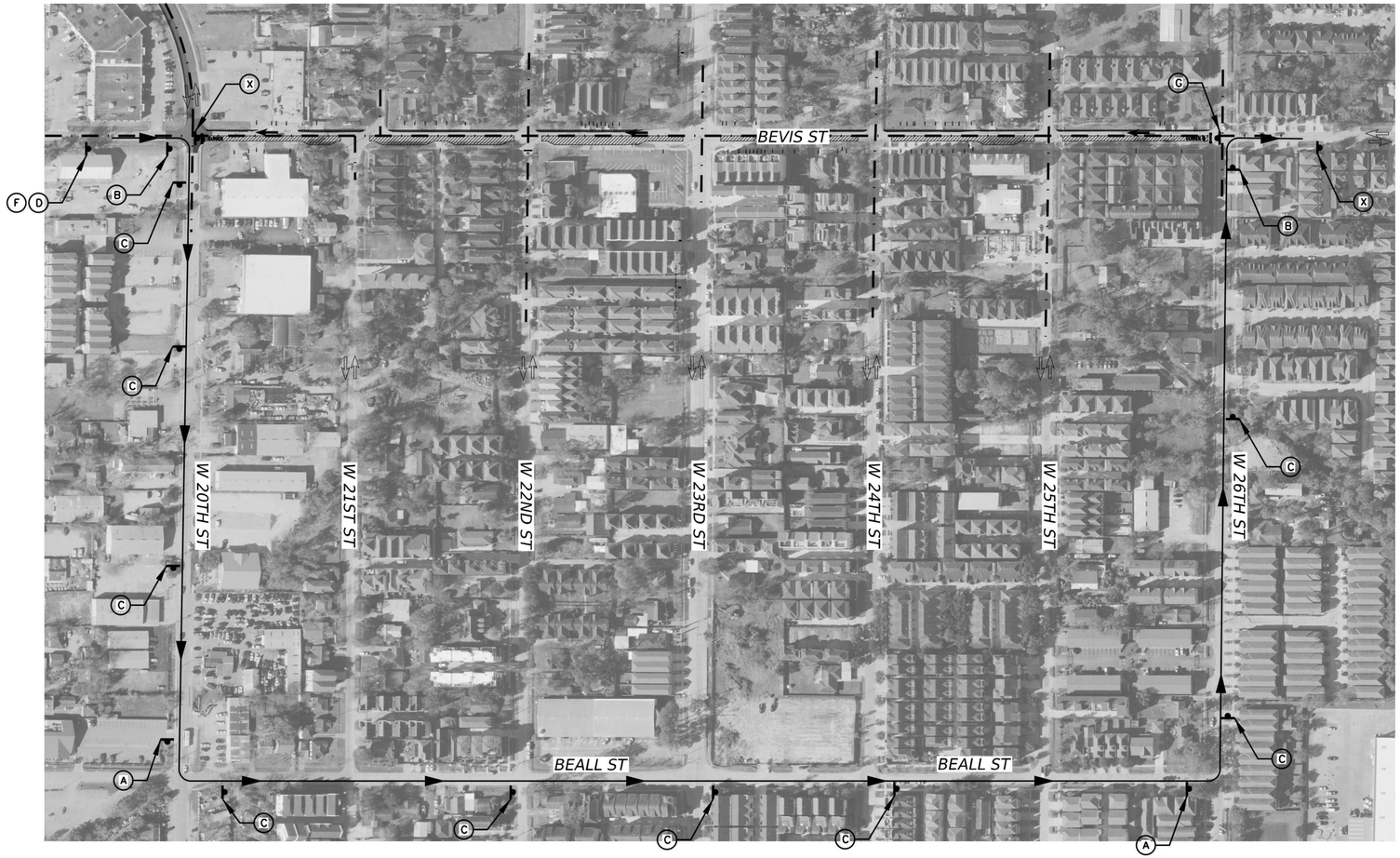
...\TCP\TURKEY_GULLY_TCP_DETOUR_02.dgn



LEGEND:

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- CONSTRUCTION PREVIOUS PHASE / STEP
- DETOUR ROUTE
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
- EXISTING TRAFFIC
- PROPOSED TRAFFIC

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(A) *
M4-12T VARX12
CLOSED
DETOUR
M4-9L 30x24

(B) *
M4-12T VARX12
CLOSED
DETOUR
M4-9R 30x24

(C) *
M4-12T VARX12
CLOSED
DETOUR
M4-9S 30x24

(D) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TR 30x30

(E) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TL 30x30

(F)
ROAD CLOSED TO THRU TRAFFIC
R11-4 60x30

(G)
ROAD CLOSED
R11-2 48x30

(H)
ROAD CLOSED LOCAL TRAFFIC ONLY
R11-3 60x30

(I)
R3-2 24" x 24"

(J)
R3-1 24" x 24"

(X)
END DETOUR
M4-8a

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P.E. NO.113148 on 10/27/2025

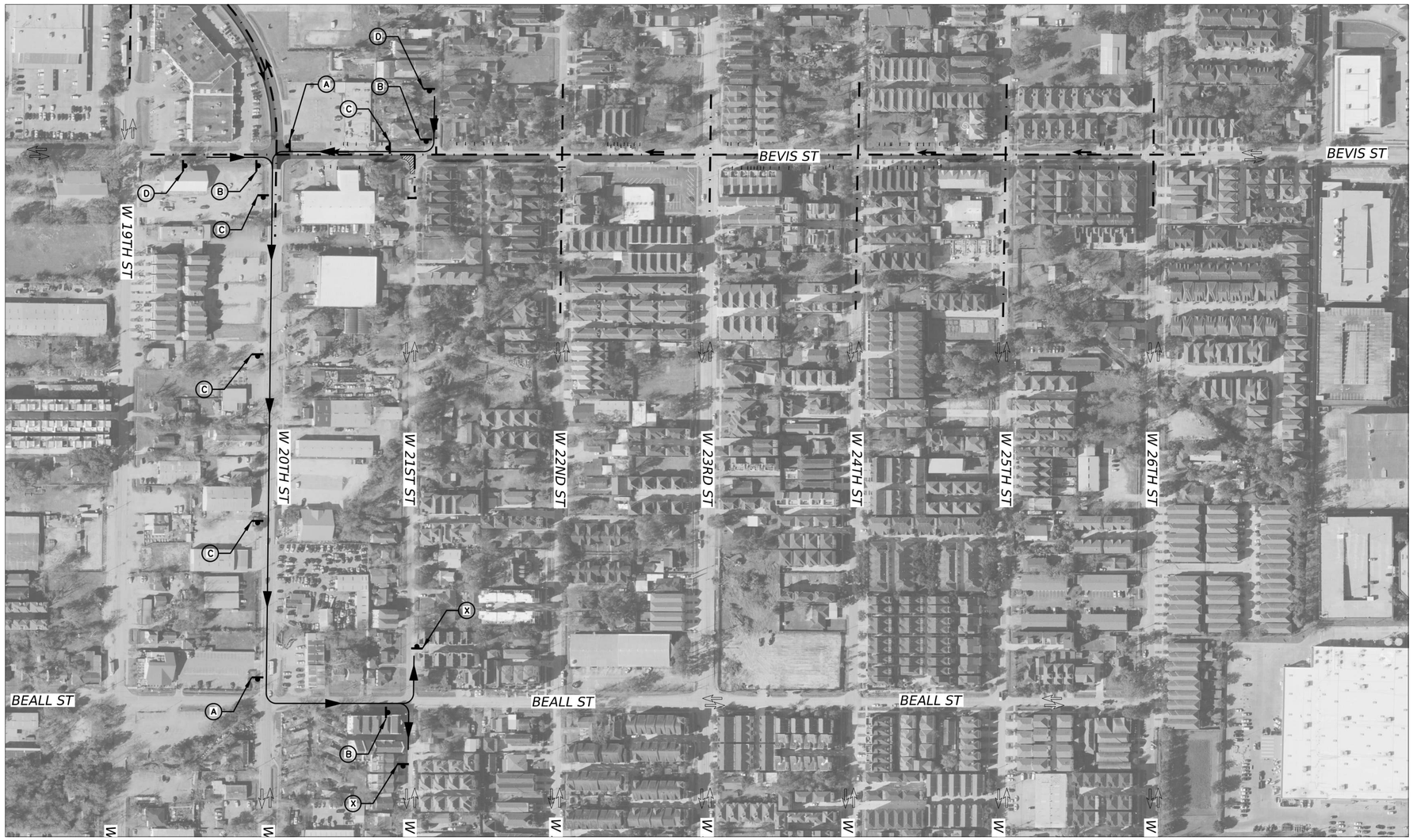
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

PHASE 3
BEVIS STREET

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 79 OF 278	

CarlosR
10/27/2025
TCP_TCDT_03.dgn



LEGEND:

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- CONSTRUCTION PREVIOUS PHASE / STEP
- DETOUR ROUTE
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
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(A) *
M4-12T VARX12
CLOSED
DETOUR
M4-9L 30x24

(B) *
M4-12T VARX12
CLOSED
DETOUR
M4-9R 30x24

(C) *
M4-12T VARX12
CLOSED
DETOUR
M4-9S 30x24

(D) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TR 30x30

(E) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TL 30x30

(F)
ROAD CLOSED TO THRU TRAFFIC
R11-4 60x30

(G)
ROAD CLOSED
R11-2 48x30

(H)
ROAD CLOSED LOCAL TRAFFIC ONLY
R11-3 60x30

(I)
R3-2 24" x 24"

(J)
R3-1 24" x 24"

(X)
END DETOUR
M4-8a

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HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

PHASE 3 STEP 1
W 21ST STREET

SHEET 4 OF 28

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **80** OF **278**	

10/27/2025
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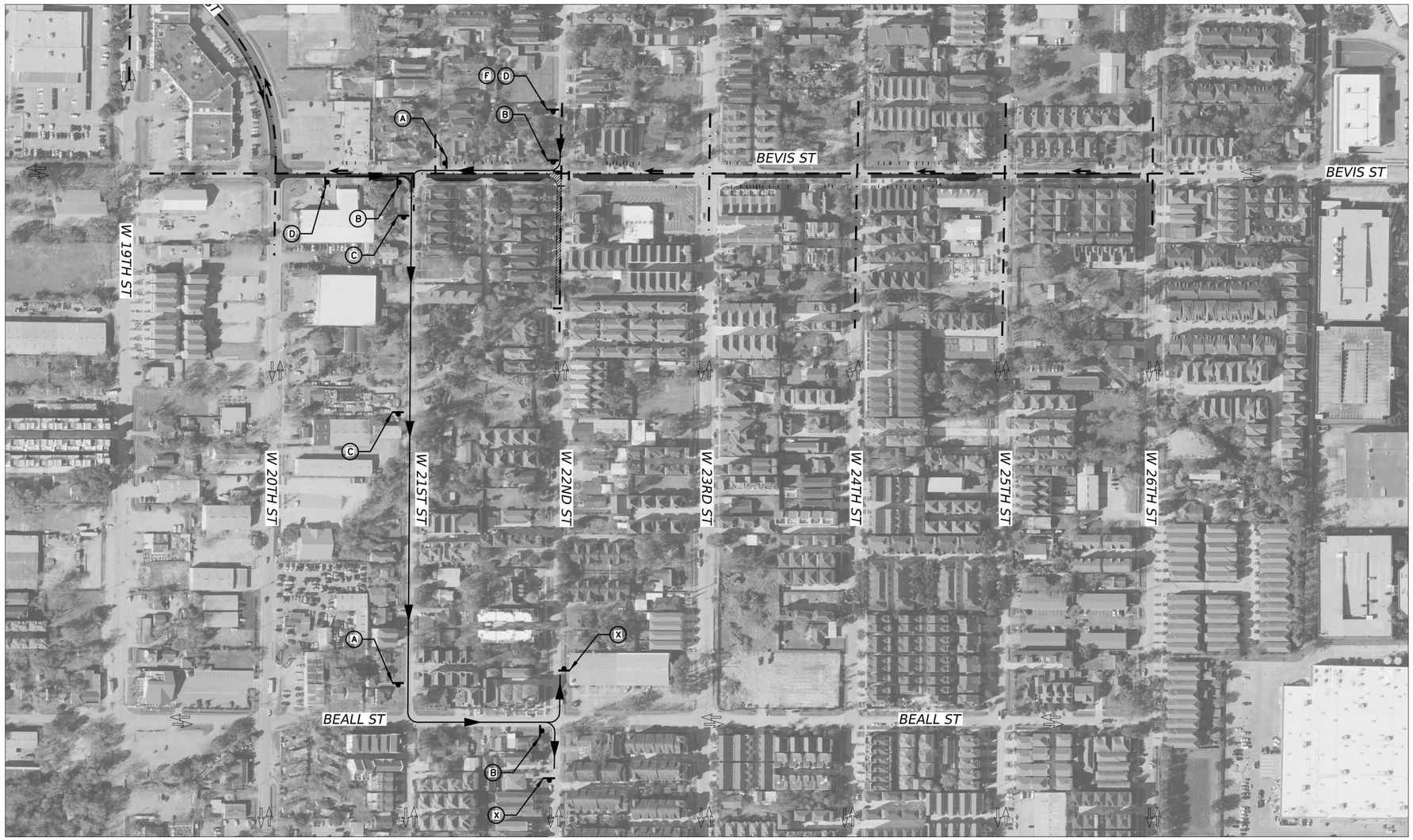

LEGEND:

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CLOSED
DETOUR
M4-9L 30x24

(B) *
M4-12T VARX12
CLOSED
DETOUR
M4-9R 30x24

(C) *
M4-12T VARX12
CLOSED
DETOUR
M4-9S 30x24

(D) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TR 30x30

(E) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TL 30x30

(F)
ROAD CLOSED TO THRU TRAFFIC
R11-4 60x30

(G)
ROAD CLOSED
R11-2 48x30

(H)
ROAD CLOSED LOCAL TRAFFIC ONLY
R11-3 60x30

(I)
R3-2 24" x 24"

(J)
R3-1 24" x 24"

(X)
END DETOUR
M4-8a

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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

PHASE 3 STEP 1
W 22ND STREET

SHEET 5 OF 28

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 81 OF 278	

10/27/2025
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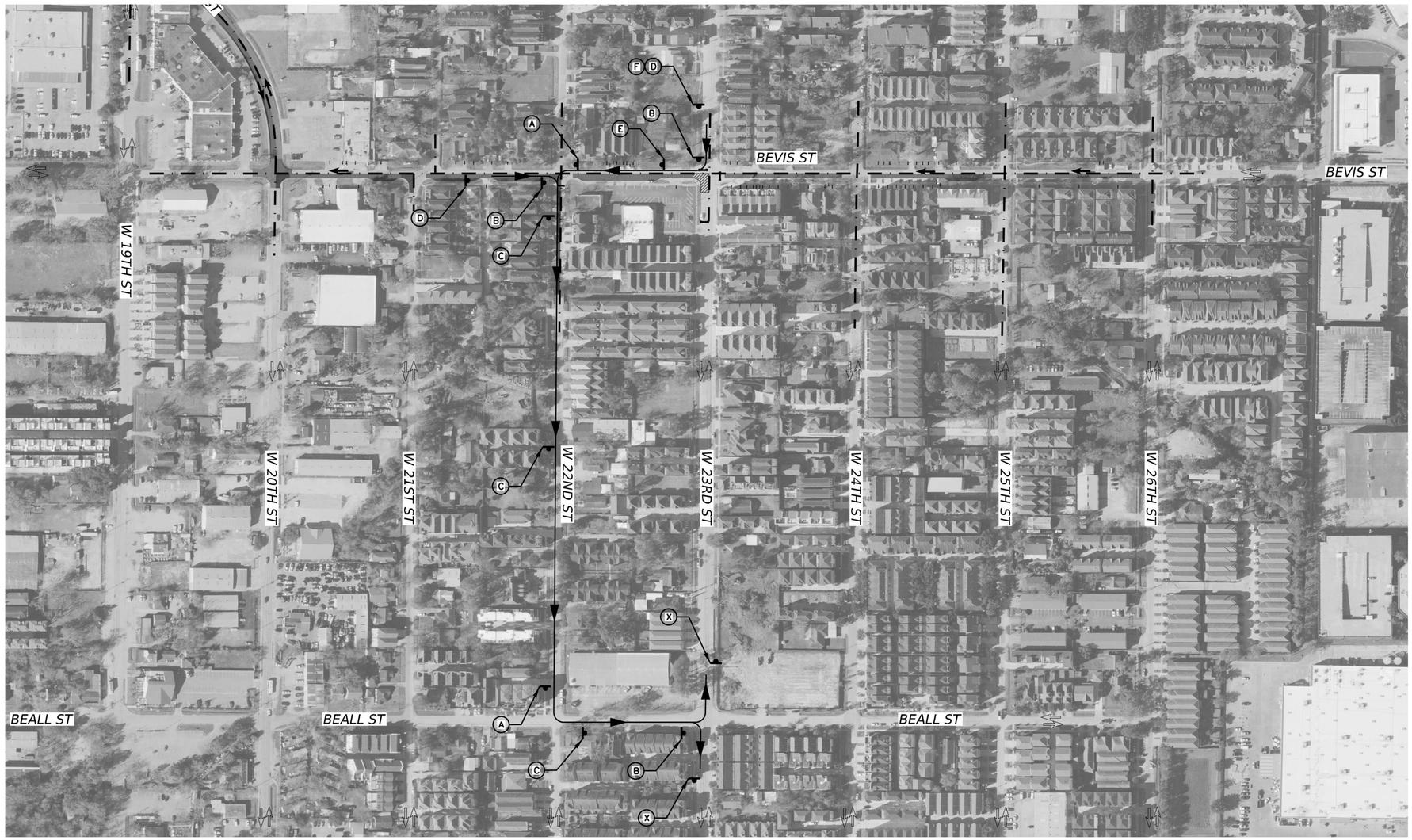
CarlosR
...\TURKEY TCP\ET_05.dgn



LEGEND:

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(A) *
M4-12T VARX12
CLOSED
DETOUR
M4-9L 30x24

(B) *
M4-12T VARX12
CLOSED
DETOUR
M4-9R 30x24

(C) *
M4-12T VARX12
CLOSED
DETOUR
M4-9S 30x24

(D) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TR 30x30

(E) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TL 30x30

(F)
ROAD CLOSED TO THRU TRAFFIC
R11-4 60x30

(G)
ROAD CLOSED
R11-2 48x30

(H)
ROAD CLOSED LOCAL TRAFFIC ONLY
R11-3 60x30

(I)
R3-2 24" x 24"

(J)
R3-1 24" x 24"

(X)
END DETOUR
M4-8a

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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

PHASE 3 STEP 1
W 23RD STREET

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 82 OF 278	

CarlosR
10/27/2025
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LEGEND:

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- CONSTRUCTION PREVIOUS PHASE / STEP
- DETOUR ROUTE
- TEMPORARY GROUND MOUNTED SIGN
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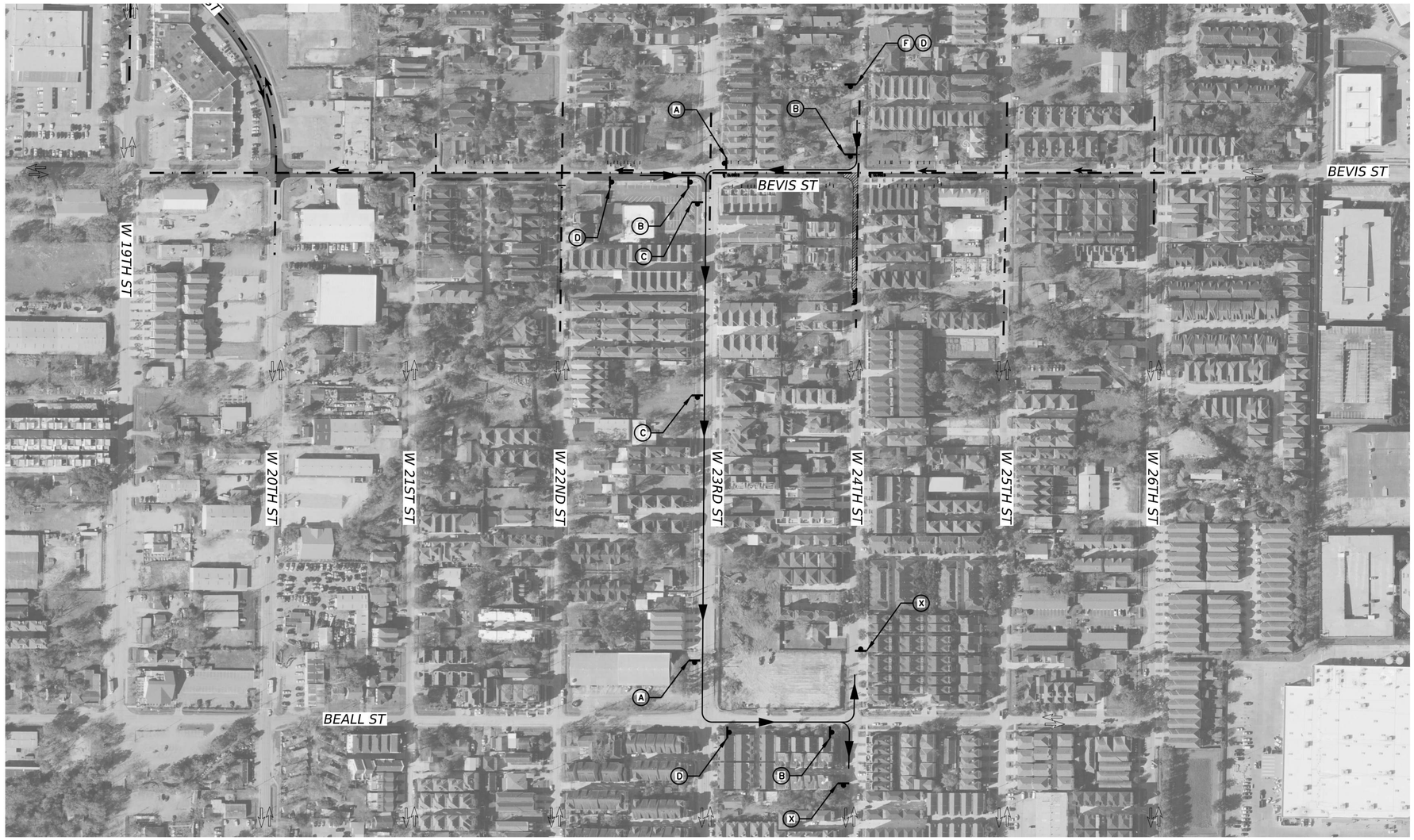

(A) * M4-12T VARX12 CLOSED DETOUR M4-9L 30x24

(B) * M4-12T VARX12 CLOSED DETOUR M4-9R 30x24

(C) * M4-12T VARX12 CLOSED DETOUR M4-9S 30x24

(D) * M4-12T VARX12 CLOSED DETOUR M4-9TR 30x30

(E) * M4-12T VARX12 CLOSED DETOUR M4-9TL 30x30

(F) ROAD CLOSED TO THRU TRAFFIC R11-4 60x30

(G) ROAD CLOSED R11-2 48x30

(H) ROAD CLOSED LOCAL TRAFFIC ONLY R11-3 60x30

(I) R3-2 24" x 24"

(J) R3-1 24" x 24"

(X) END DETOUR M4-8a

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15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

PHASE 3 STEP 1
W 24TH STREET

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 83 OF 278	

CarlosR
10/27/2025
...\TCP_TCDET_07.dgn

LEGEND:

- CONSTRUCTION THIS PHASE / STEP
- CONSTRUCTION PREVIOUS PHASE / STEP
- DETOUR ROUTE
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
- EXISTING TRAFFIC
- PROPOSED TRAFFIC

* CHANGE STREET NAME SIGN (M4-12T) TO MATCH CLOSED INTERSECTION

NOTES:

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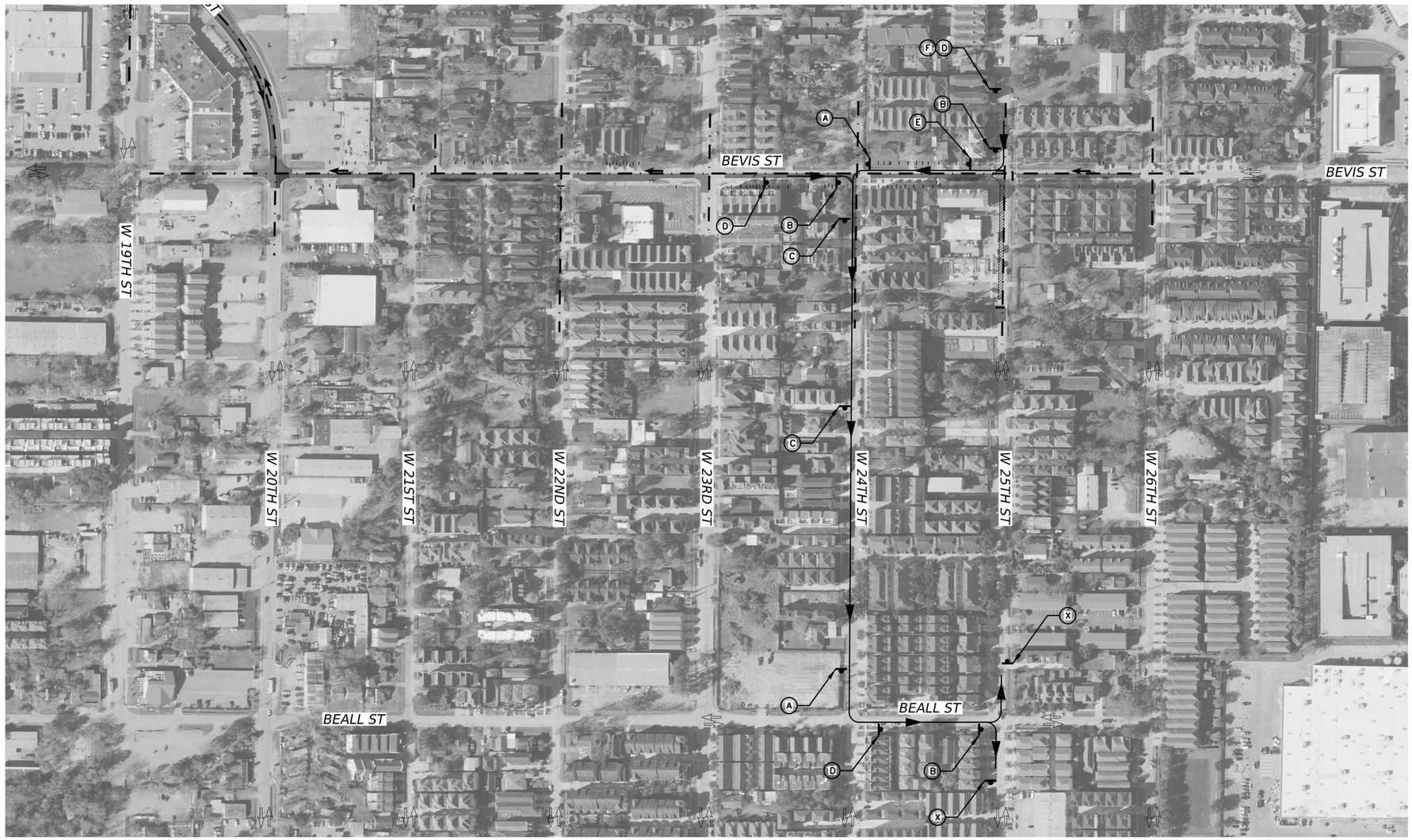

(A) *
M4-12T VARX12
CLOSED
DETOUR
M4-9L 30x24

(B) *
M4-12T VARX12
CLOSED
DETOUR
M4-9R 30x24

(C) *
M4-12T VARX12
CLOSED
DETOUR
M4-9S 30x24

(D) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TR 30x30

(E) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TL 30x30

(F)
ROAD CLOSED TO THRU TRAFFIC
R11-4 60x30

(G)
ROAD CLOSED
R11-2 48x30

(H)
ROAD CLOSED LOCAL TRAFFIC ONLY
R11-3 60x30

(I)
R3-2 24" x 24"

(J)
R3-1 24" x 24"

(X)
END DETOUR
M4-8a

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(713) 541-5591
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SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

PHASE 3 STEP 1
W 25TH STREET

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 84 OF 278	

CarlosR
10/27/2025
...\TCP_TCDET_08.dgn

LEGEND:

- CONSTRUCTION THIS PHASE / STEP
- CONSTRUCTION PREVIOUS PHASE / STEP
- DETOUR ROUTE
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
- EXISTING TRAFFIC
- PROPOSED TRAFFIC

* CHANGE STREET NAME SIGN (M4-12T) TO MATCH CLOSED INTERSECTION

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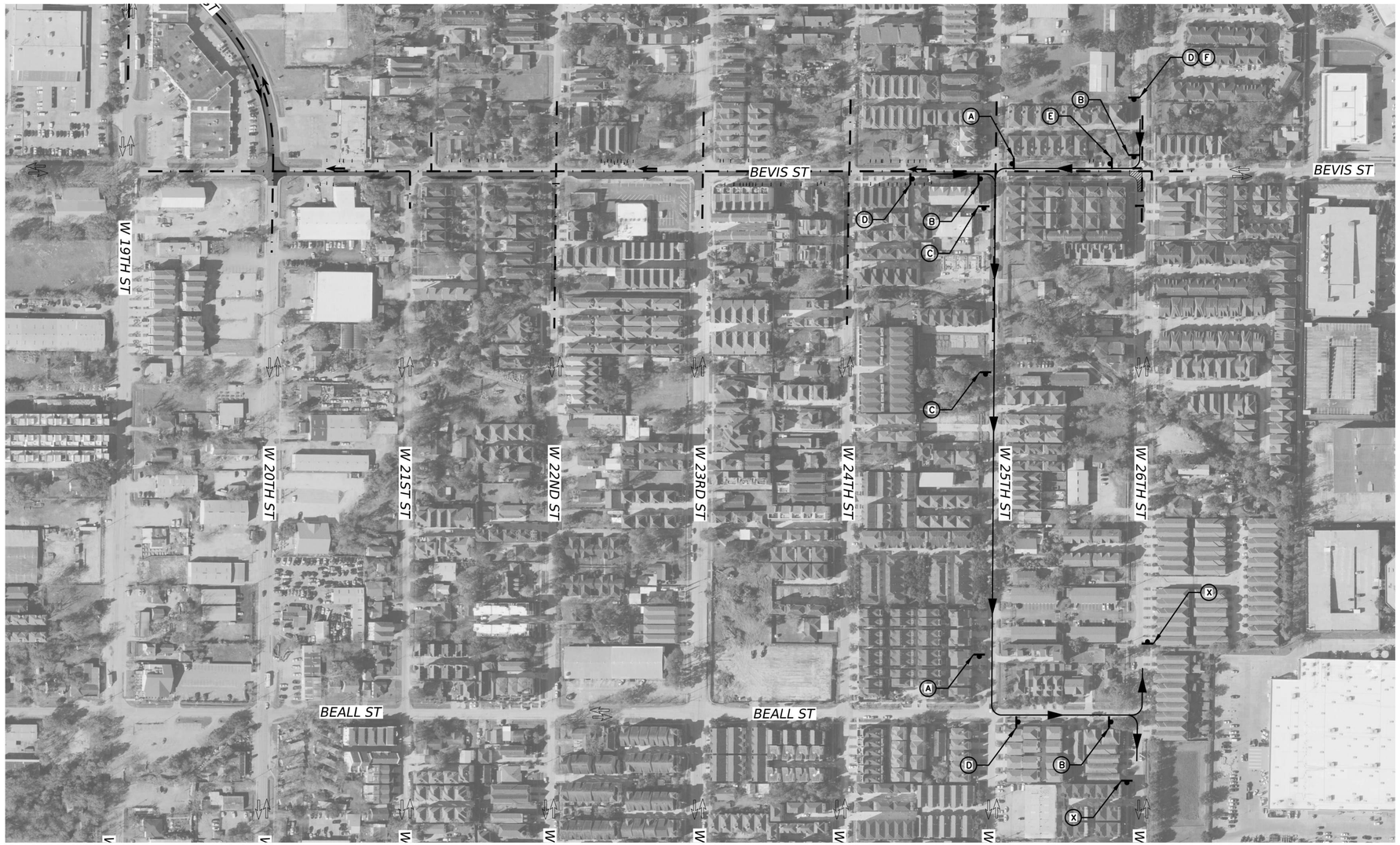

(A) *
M4-12T VARX12
CLOSED
DETOUR
M4-9L 30x24

(B) *
M4-12T VARX12
CLOSED
DETOUR
M4-9R 30x24

(C) *
M4-12T VARX12
CLOSED
DETOUR
M4-9S 30x24

(D) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TR 30x30

(E) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TL 30x30

(F)
ROAD CLOSED TO THRU TRAFFIC
R11-4 60x30

(G)
ROAD CLOSED
R11-2 48x30

(H)
ROAD CLOSED LOCAL TRAFFIC ONLY
R11-3 60x30

(I)
R3-2 24" x 24"

(J)
R3-1 24" x 24"

(X)
END DETOUR
M4-8a

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(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

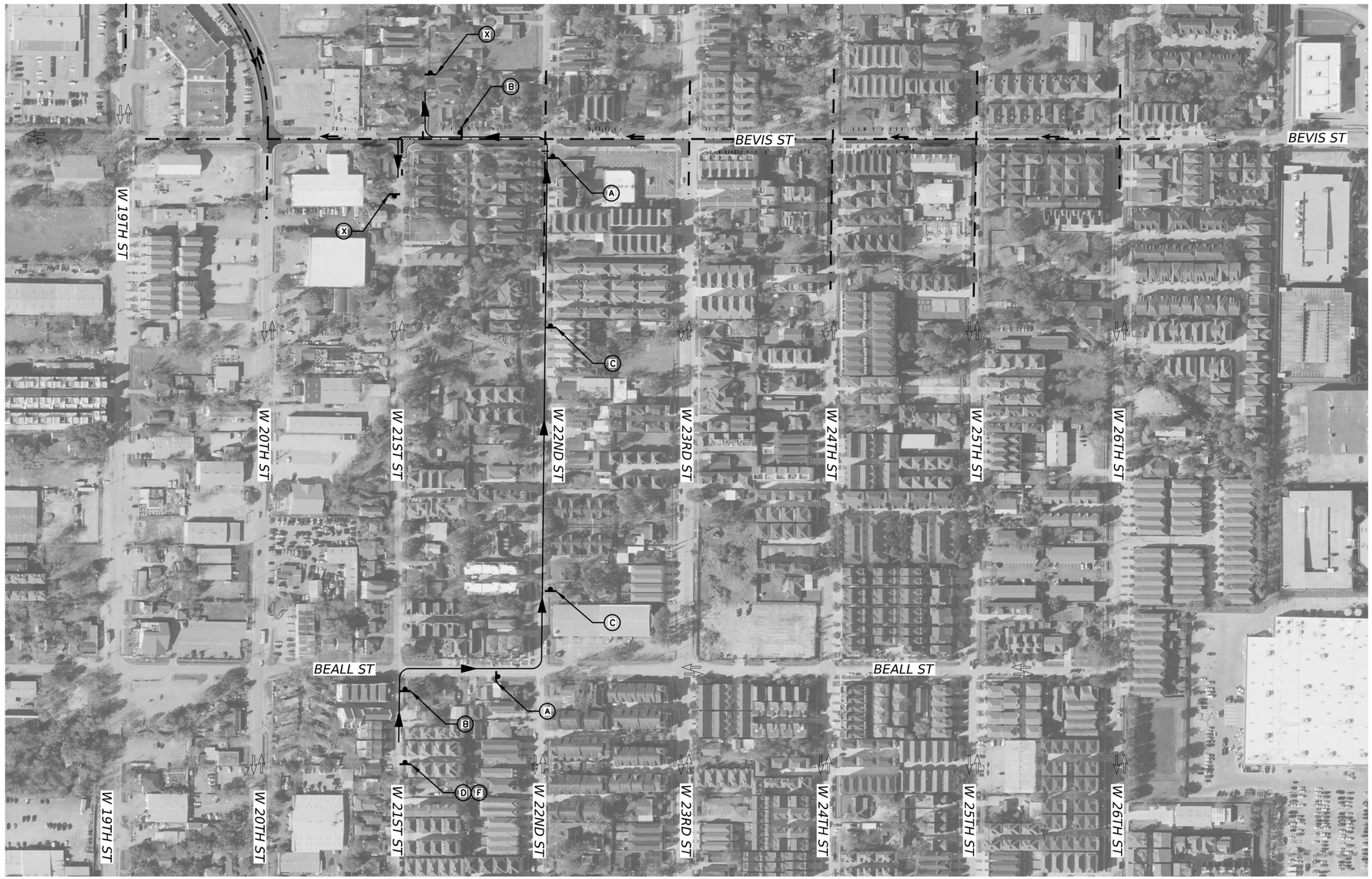
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

PHASE 3 STEP 1
W 26TH STREET

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 85 OF 278	

CarlosR
10/27/2025
...\TURK_TCP_T_09.dgn



LEGEND:

- CONSTRUCTION THIS PHASE / STEP
- CONSTRUCTION PREVIOUS PHASE / STEP
- DETOUR ROUTE
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
- EXISTING TRAFFIC
- PROPOSED TRAFFIC

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(A) * M4-12T VARX12 — CLOSED / DETOUR — M4-9L 30x24

(B) * M4-12T VARX12 — CLOSED / DETOUR — M4-9R 30x24

(C) * M4-12T VARX12 — CLOSED / DETOUR — M4-9S 30x24

(D) * M4-12T VARX12 — CLOSED / DETOUR — M4-9TR 30x30

(E) * M4-12T VARX12 — CLOSED / DETOUR — M4-9TL 30x30

(F) ROAD CLOSED TO THRU TRAFFIC — R11-4 60x30

(G) ROAD CLOSED — R11-2 48x30

(H) ROAD CLOSED LOCAL TRAFFIC ONLY — R11-3 60x30

(I) R3-2 24" x 24"

(J) R3-1 24" x 24"

(X) END DETOUR — M4-8a

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TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

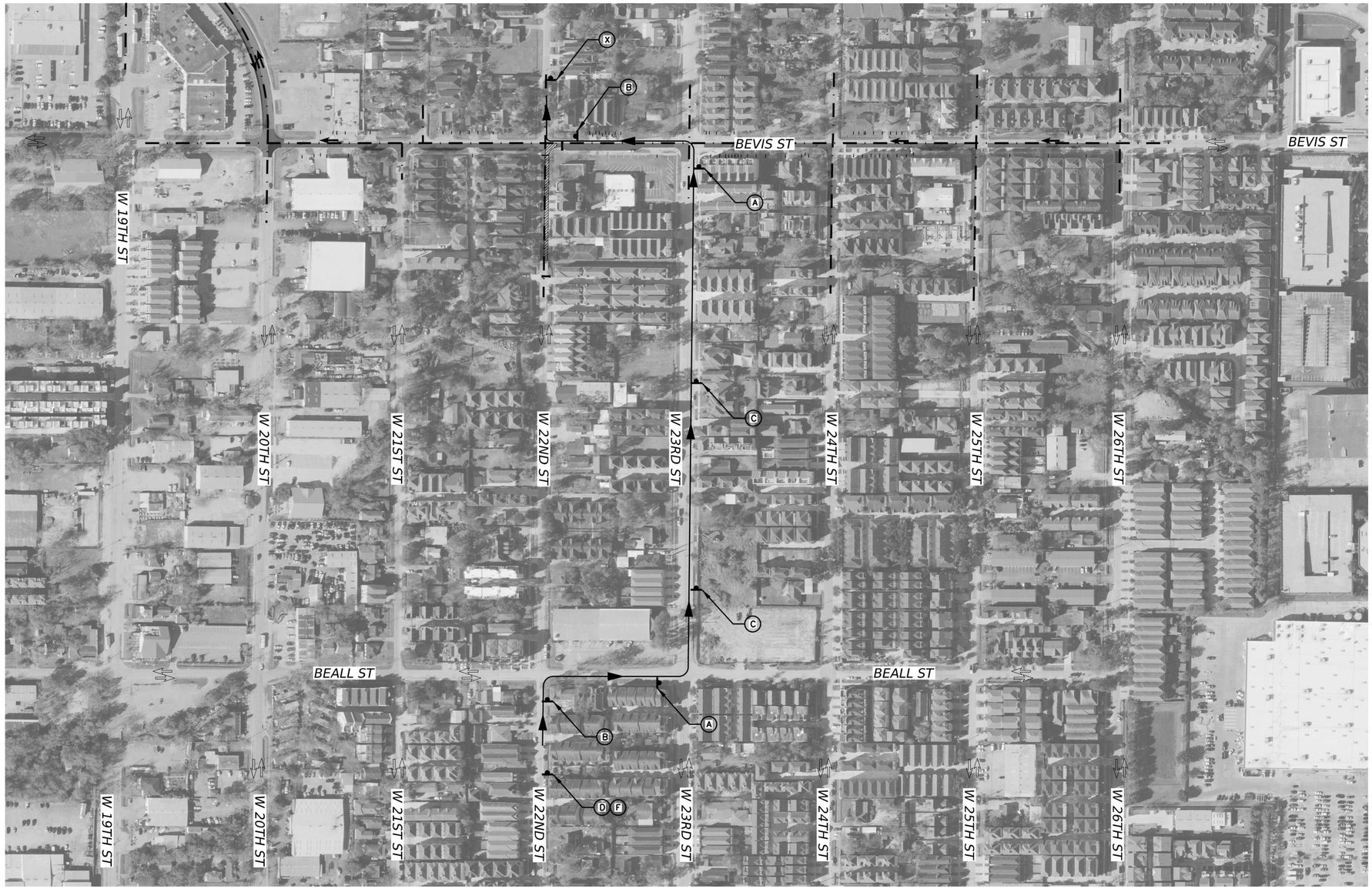
TURKEY GULLY

PHASE 3 STEP 2
W 21ST STREET

SHEET 10 OF 28

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 86 OF 278	

CarlosR
10/27/2025
...\TCP_TCDET_10.dgn



LEGEND:

- CONSTRUCTION THIS PHASE / STEP
- CONSTRUCTION PREVIOUS PHASE / STEP
- DETOUR ROUTE
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
- EXISTING TRAFFIC
- PROPOSED TRAFFIC

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A *
M4-12T VARX12
CLOSED
DETOUR
M4-9L 30x24

B *
M4-12T VARX12
CLOSED
DETOUR
M4-9R 30x24

C *
M4-12T VARX12
CLOSED
DETOUR
M4-9S 30x24

D *
M4-12T VARX12
CLOSED
DETOUR
M4-9TR 30x30

E *
M4-12T VARX12
CLOSED
DETOUR
M4-9TL 30x30

F
ROAD CLOSED TO THRU TRAFFIC
R11-4 60x30

G
ROAD CLOSED
R11-2 48x30

H
ROAD CLOSED LOCAL TRAFFIC ONLY
R11-3 60x30

I
R3-2 24" x 24"

J
R3-1 24" x 24"

X
END DETOUR
M4-8a

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

PHASE 3 STEP 2
W 22ND STREET

SHEET 11 OF 28

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **87** OF **278**	

CarlosR
10/27/2025
...\TURKEY EDIT 11.dgn

LEGEND:

- CONSTRUCTION THIS PHASE / STEP
- CONSTRUCTION PREVIOUS PHASE / STEP
- DETOUR ROUTE
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
- EXISTING TRAFFIC
- PROPOSED TRAFFIC

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(A) * M4-12T VARX12 — CLOSED / DETOUR — M4-9L 30x24

(B) * M4-12T VARX12 — CLOSED / DETOUR — M4-9R 30x24

(C) * M4-12T VARX12 — CLOSED / DETOUR — M4-9S 30x24

(D) * M4-12T VARX12 — CLOSED / DETOUR — M4-9TR 30x30

(E) * M4-12T VARX12 — CLOSED / DETOUR — M4-9TL 30x30

(F) ROAD CLOSED TO THRU TRAFFIC — R11-4 60x30

(G) ROAD CLOSED — R11-2 48x30

(H) ROAD CLOSED LOCAL TRAFFIC ONLY — R11-3 60x30

(I) R3-2 24" x 24"

(J) R3-1 24" x 24"

(X) END DETOUR — M4-8a

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TBPE FIRM REGISTRATION NO. F-6825

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P.E. NO.113148 on 10/27/2025

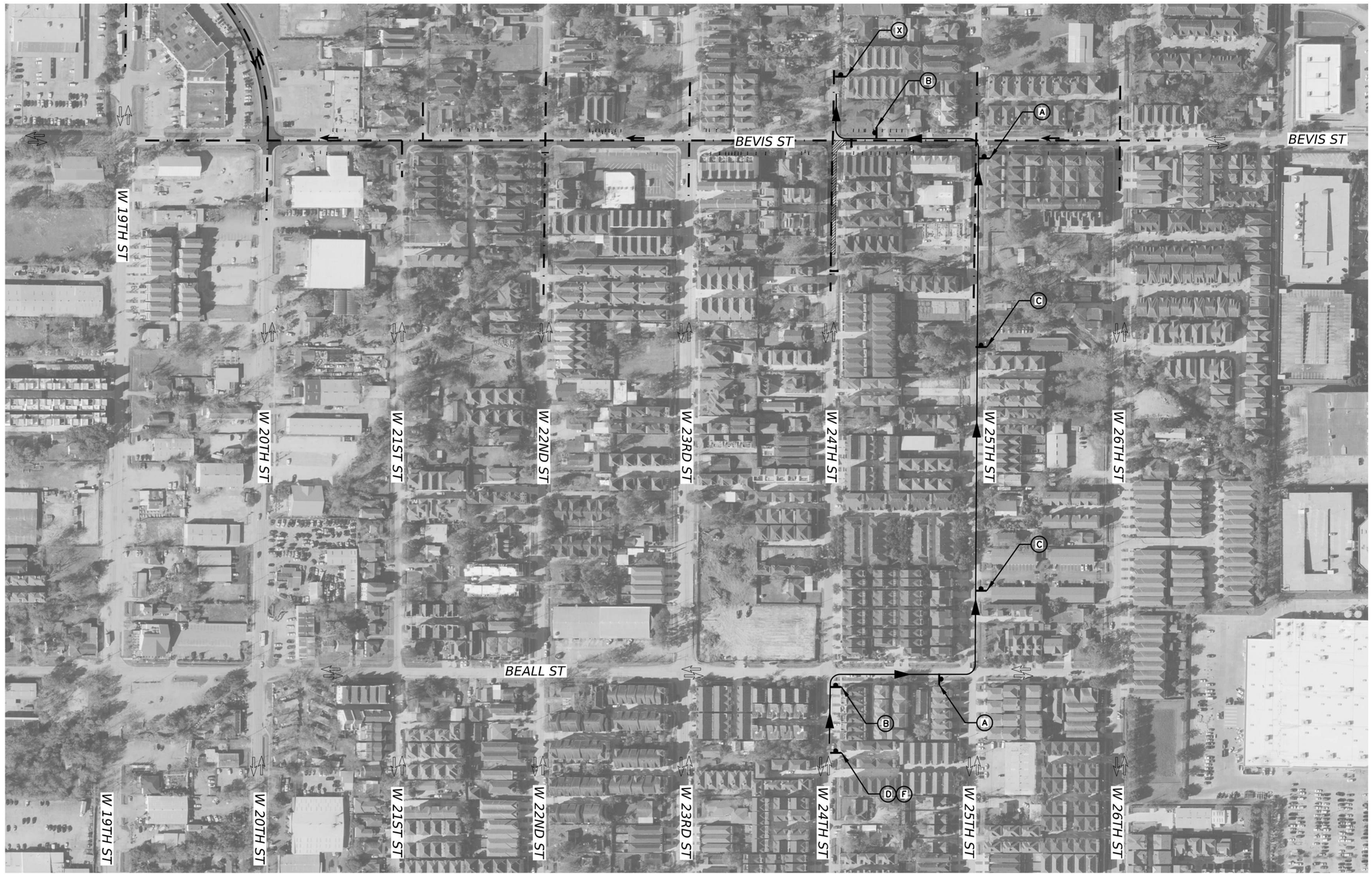
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

PHASE 3 STEP 2
W 23RD STREET

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 88 OF 278	

CarlosR
10/27/2025
...\GRA_TCDET_12.dgn



LEGEND:

- CONSTRUCTION THIS PHASE / STEP
- CONSTRUCTION PREVIOUS PHASE / STEP
- DETOUR ROUTE
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
- EXISTING TRAFFIC
- PROPOSED TRAFFIC

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(A) *
M4-12T VARX12
CLOSED
DETOUR
M4-9L 30x24

(B) *
M4-12T VARX12
CLOSED
DETOUR
M4-9R 30x24

(C) *
M4-12T VARX12
CLOSED
DETOUR
M4-9S 30x24

(D) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TR 30x30

(E) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TL 30x30

(F)
ROAD CLOSED TO THRU TRAFFIC
R11-4 60x30

(G)
ROAD CLOSED
R11-2 48x30

(H)
ROAD CLOSED LOCAL TRAFFIC ONLY
R11-3 60x30

(I)
R3-2 24" x 24"

(J)
R3-1 24" x 24"

(X)
END DETOUR
M4-8a

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Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
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(713) 541-5591

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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

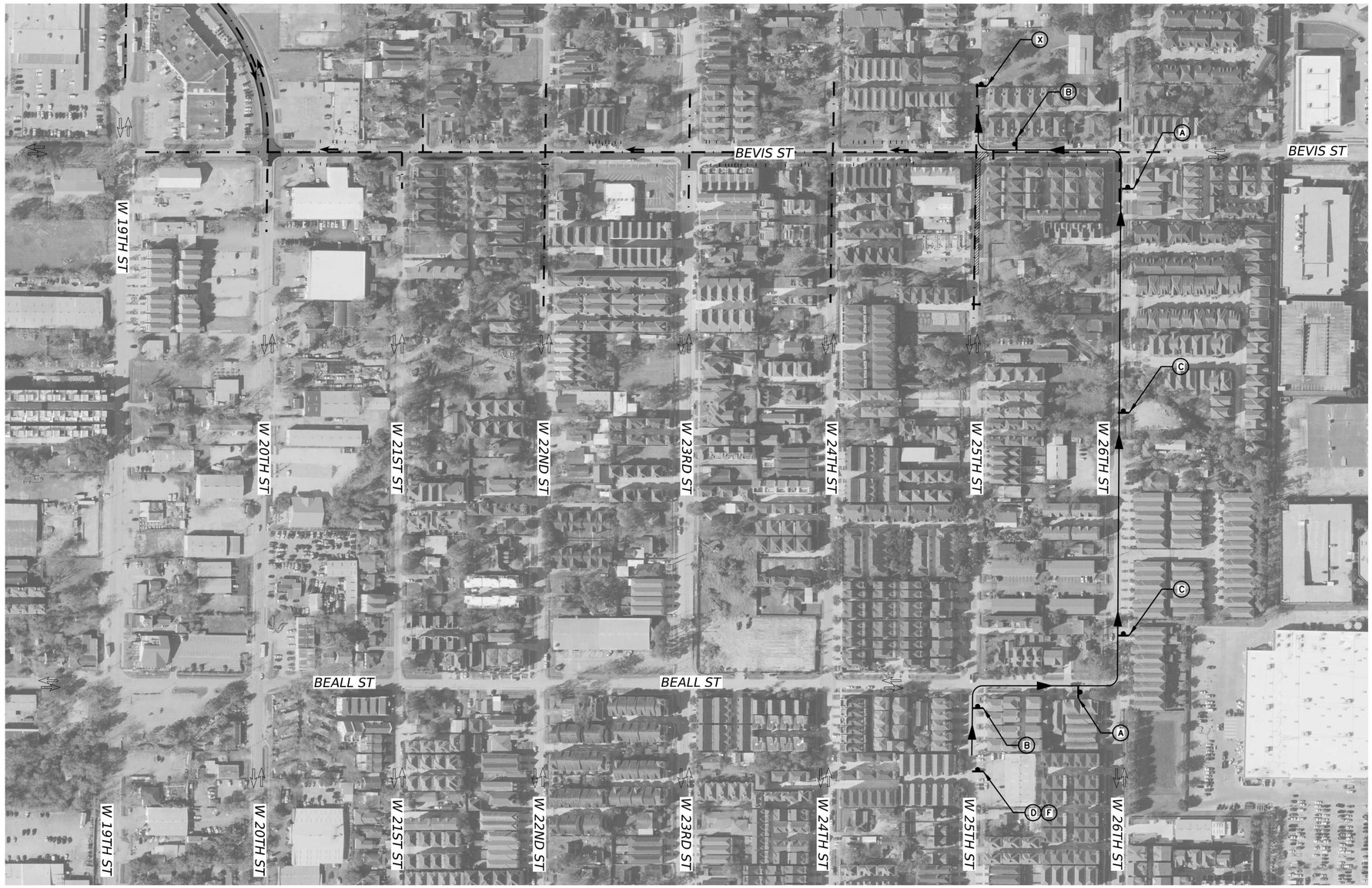
TURKEY GULLY

PHASE 3 STEP 2
W 24TH STREET

SHEET 13 OF 28

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 89 OF 278	

CarlosR
10/27/2025
...\GRA_TCDET_13.dgn
GRA_TCDET_13.dgn



LEGEND:

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- CONSTRUCTION PREVIOUS PHASE / STEP
- DETOUR ROUTE
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
- EXISTING TRAFFIC
- PROPOSED TRAFFIC

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(A) *
M4-12T VARX12
CLOSED
DETOUR
M4-9L 30x24

(B) *
M4-12T VARX12
CLOSED
DETOUR
M4-9R 30x24

(C) *
M4-12T VARX12
CLOSED
DETOUR
M4-9S 30x24

(D) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TR 30x30

(E) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TL 30x30

(F)
ROAD CLOSED TO THRU TRAFFIC
R11-4 60x30

(G)
ROAD CLOSED
R11-2 48x30

(H)
ROAD CLOSED LOCAL TRAFFIC ONLY
R11-3 60x30

(I)
R3-2 24" x 24"

(J)
R3-1 24" x 24"

(X)
END DETOUR
M4-8a

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
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(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

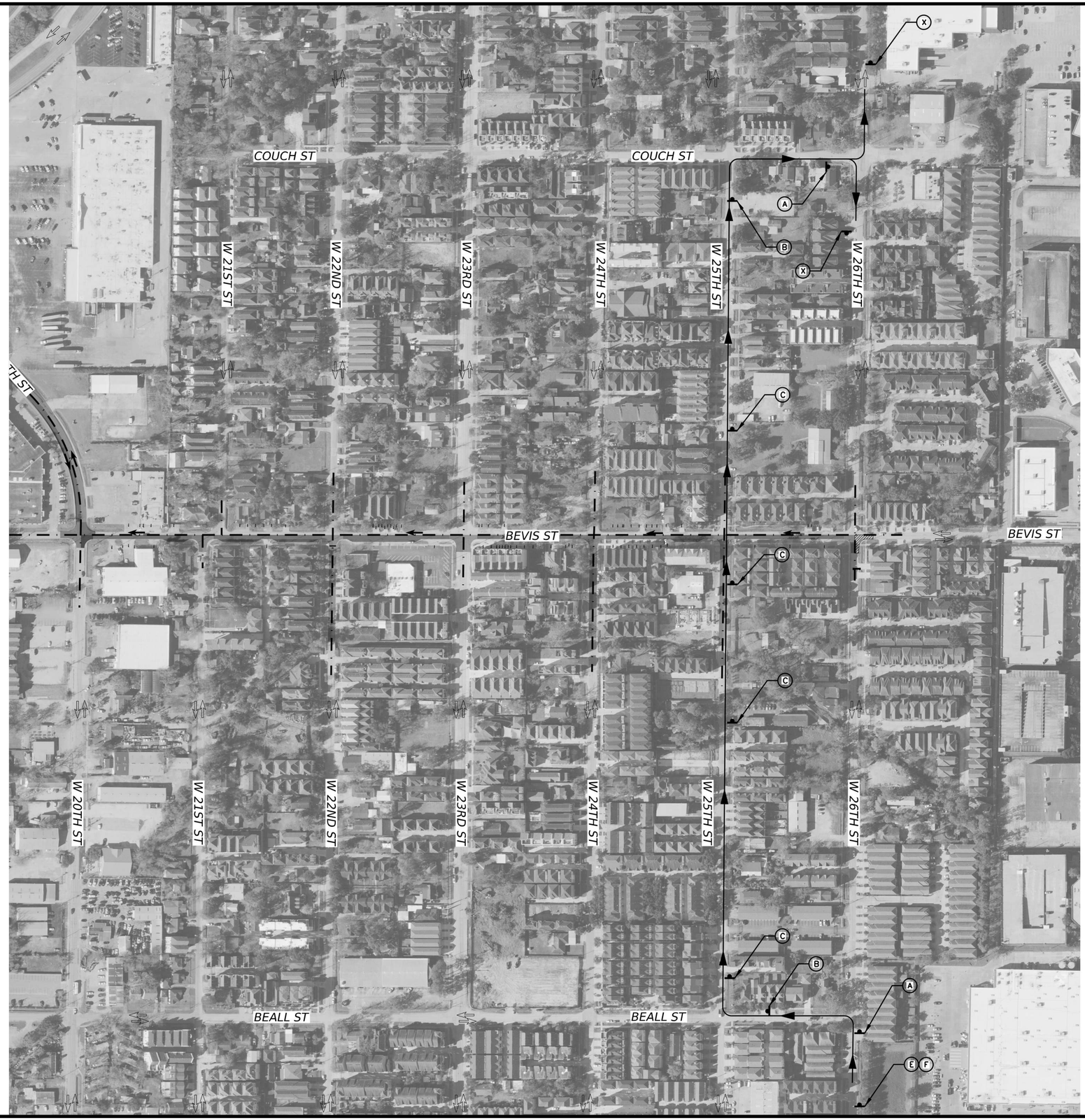
TURKEY GULLY

PHASE 3 STEP 2
W 25TH STREET

SHEET 14 OF 28

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 90 OF 278	

10/27/2025
CarlosR
TURK_TCP3_14.dgn



LEGEND:

- CONSTRUCTION THIS PHASE / STEP
- CONSTRUCTION PREVIOUS PHASE / STEP
- DETOUR ROUTE
- TEMPORARY GROUND MOUNTED SIGN
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(A) *
M4-12T VARX12
CLOSED
DETOUR
M4-9L 30x24

(B) *
M4-12T VARX12
CLOSED
DETOUR
M4-9R 30x24

(C) *
M4-12T VARX12
CLOSED
DETOUR
M4-9S 30x24

(D) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TR 30x30

(E) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TL 30x30

(F)
ROAD CLOSED TO THRU TRAFFIC
R11-4 60x30

(G)
ROAD CLOSED
R11-2 48x30

(H)
ROAD CLOSED LOCAL TRAFFIC ONLY
R11-3 60x30

(I)
R3-2 24" x 24"

(J)
R3-1 24" x 24"

(X)
END DETOUR
M4-8a

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15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

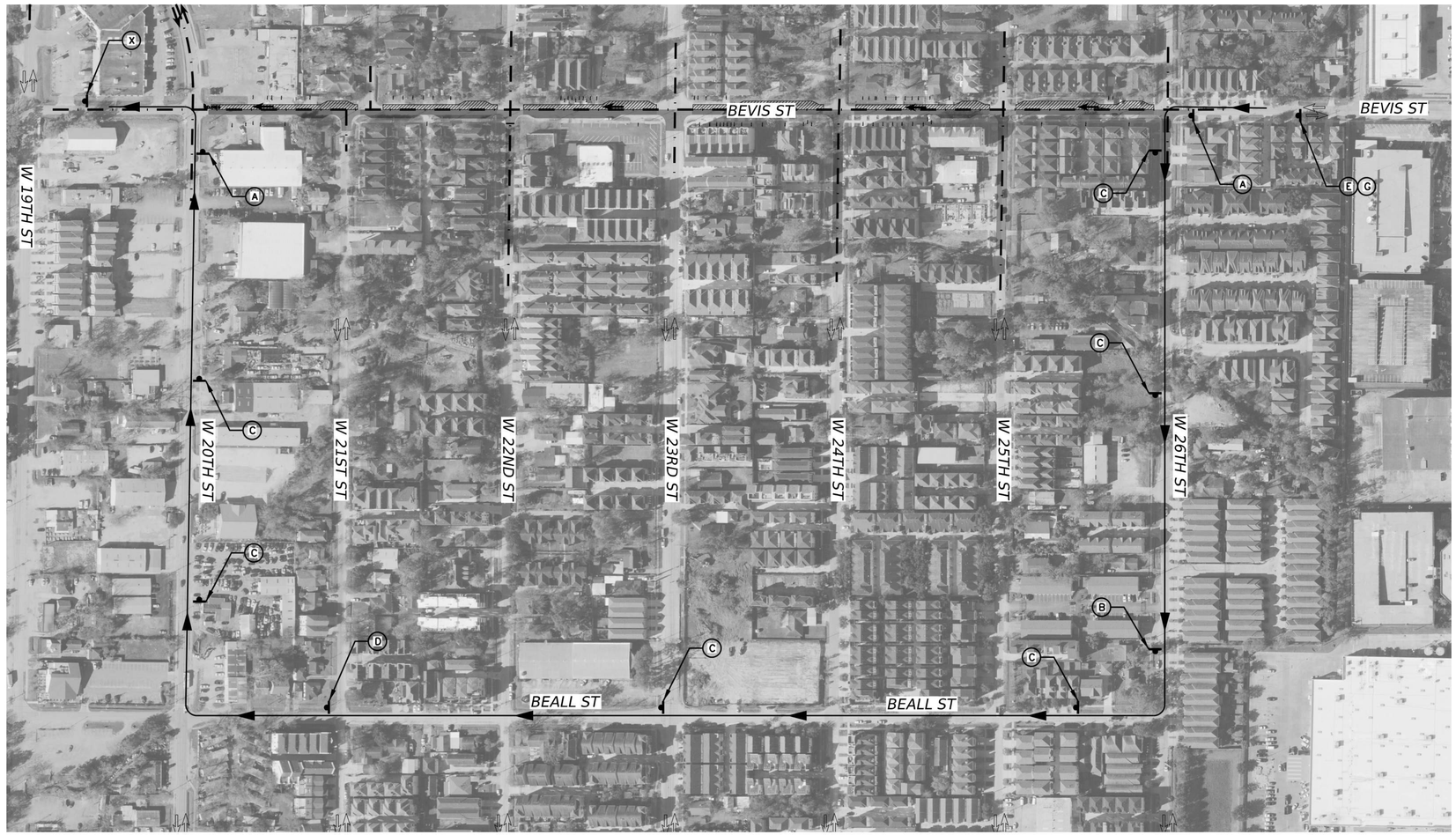
TURKEY GULLY

PHASE 3 STEP 2
W 26TH STREET

SHEET 15 OF 28

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 91 OF 278	

10/27/2025
TCP_CODE_15.dgn
CarlosR



LEGEND:

- CONSTRUCTION THIS PHASE / STEP
- CONSTRUCTION PREVIOUS PHASE / STEP
- DETOUR ROUTE
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
- EXISTING TRAFFIC
- PROPOSED TRAFFIC

* CHANGE STREET NAME SIGN (M4-12T) TO MATCH CLOSED INTERSECTION

NOTES:

1. CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS THROUGH AND AROUND WORK ZONE DURING CONSTRUCTION.
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3. CONTRACTOR TO COVER SIGNS THAT ARE NOT IN USE DURING CONSTRUCTION ACTIVITIES
4. TRAFFIC CONTROL PLAN DEVICES SHALL BE PLACED IN ACCORDANCE WITH APPLICABLE BC AND TCP STANDARDS.
5. CONTRACTOR SHALL LOCATE SIGNS, BARRICADES AND CHANNELIZATION DEVICES AS APPROVED BY THE ENGINEER.

(A) * M4-12T VARX12 — CLOSED / DETOUR — M4-9L 30x24

(B) * M4-12T VARX12 — CLOSED / DETOUR — M4-9R 30x24

(C) * M4-12T VARX12 — CLOSED / DETOUR — M4-9S 30x24

(D) * M4-12T VARX12 — CLOSED / DETOUR — M4-9TR 30x30

(E) * M4-12T VARX12 — CLOSED / DETOUR — M4-9TL 30x30

(F) ROAD CLOSED TO THRU TRAFFIC — R11-4 60x30

(G) ROAD CLOSED — R11-2 48x30

(H) ROAD CLOSED LOCAL TRAFFIC ONLY — R11-3 60x30

(I) R3-2 24" x 24"

(J) R3-1 24" x 24"

(X) END DETOUR — M4-8a

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PRELIMINARY ENGINEERING
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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

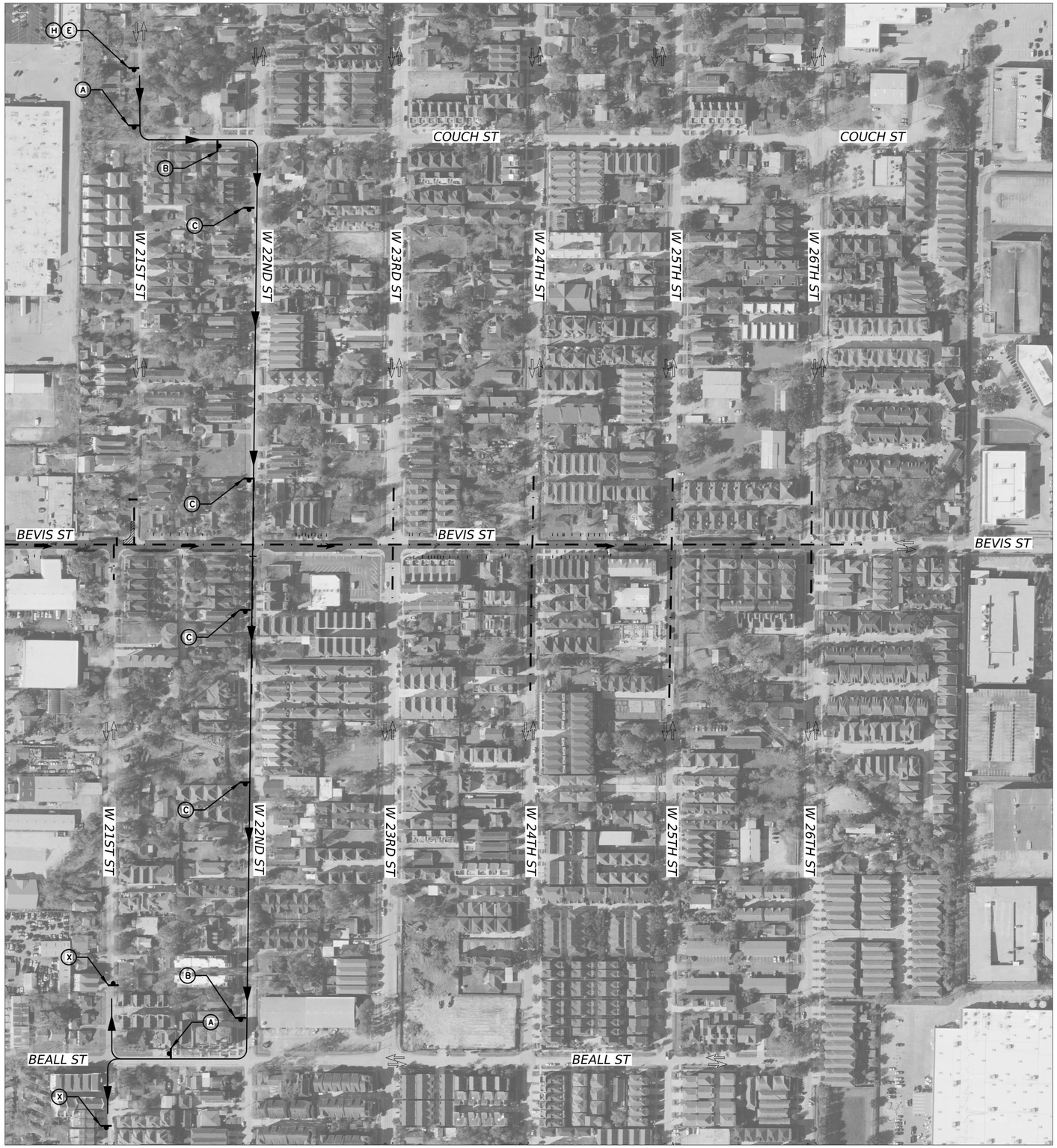
TURKEY GULLY

PHASE 4
BEVIS STREET

SHEET 16 OF 28

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 92 OF 278	

10/27/2025
...\Turk_TCP_T_16.dgn
CarlosR



LEGEND:

- CONSTRUCTION THIS PHASE / STEP
- CONSTRUCTION PREVIOUS PHASE / STEP
- DETOUR ROUTE
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
- EXISTING TRAFFIC
- PROPOSED TRAFFIC

* CHANGE STREET NAME SIGN (M4-12T) TO MATCH CLOSED INTERSECTION

NOTES:

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(A) *
M4-12T VARX12
CLOSED
DETOUR
M4-9L 30x24

(B) *
M4-12T VARX12
CLOSED
DETOUR
M4-9R 30x24

(C) *
M4-12T VARX12
CLOSED
DETOUR
M4-9S 30x24

(D) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TR 30x30

(E) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TL 30x30

30x24

(F)
ROAD CLOSED TO THRU TRAFFIC
R11-4 60x30

(G)
ROAD CLOSED
R11-2 48x30

(H)
ROAD CLOSED LOCAL TRAFFIC ONLY
R11-3 60x30

(I)
R3-2 24" x 24"

(J)
R3-1 24" x 24"

(X)
END DETOUR
M4-8a

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TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

PHASE 4 STEP 1
W 21ST STREET

SHEET 17 OF 28

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 93 OF 278	

CarlosR
10/27/2025
TCP_TODET_17.dgn
TCP_TODET_17.dgn

LEGEND:

- CONSTRUCTION THIS PHASE / STEP
- CONSTRUCTION PREVIOUS PHASE / STEP
- DETOUR ROUTE
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
- EXISTING TRAFFIC
- PROPOSED TRAFFIC

* CHANGE STREET NAME SIGN (M4-12T) TO MATCH CLOSED INTERSECTION

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(A) *
M4-12T VARX12
CLOSED
DETOUR
M4-9L 30x24

(B) *
M4-12T VARX12
CLOSED
DETOUR
M4-9R 30x24

(C) *
M4-12T VARX12
CLOSED
DETOUR
M4-9S 30x24

(D) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TR 30x30

(E) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TL 30x30

(F)
ROAD CLOSED TO THRU TRAFFIC
R11-4 60x30

(G)
ROAD CLOSED
R11-2 48x30

(H)
ROAD CLOSED LOCAL TRAFFIC ONLY
R11-3 60x30

(I)
R3-2 24" x 24"

(J)
R3-1 24" x 24"

(X)
END DETOUR
M4-8a

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TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

PHASE 4 STEP 1
W 22ND STREET

SHEET 18 OF 28

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 94 OF 278	

10/27/2025
...\TCP\TCP_TCPDET_18.dgn
CarlosR

LEGEND:

- CONSTRUCTION THIS PHASE / STEP
- CONSTRUCTION PREVIOUS PHASE / STEP
- DETOUR ROUTE
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
- EXISTING TRAFFIC
- PROPOSED TRAFFIC

* CHANGE STREET NAME SIGN (M4-12T) TO MATCH CLOSED INTERSECTION

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(A) *
M4-12T VARX12
CLOSED
DETOUR
M4-9L 30x24

(B) *
M4-12T VARX12
CLOSED
DETOUR
M4-9R 30x24

(C) *
M4-12T VARX12
CLOSED
DETOUR
M4-9S 30x24

(D) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TR 30x30

(E) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TL 30x30

(F)
ROAD CLOSED TO THRU TRAFFIC
R11-4 60x30

(G)
ROAD CLOSED
R11-2 48x30

(H)
ROAD CLOSED LOCAL TRAFFIC ONLY
R11-3 60x30

(I)
R3-2 24" x 24"

(J)
R3-1 24" x 24"

(X)
END DETOUR
M4-8a

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SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

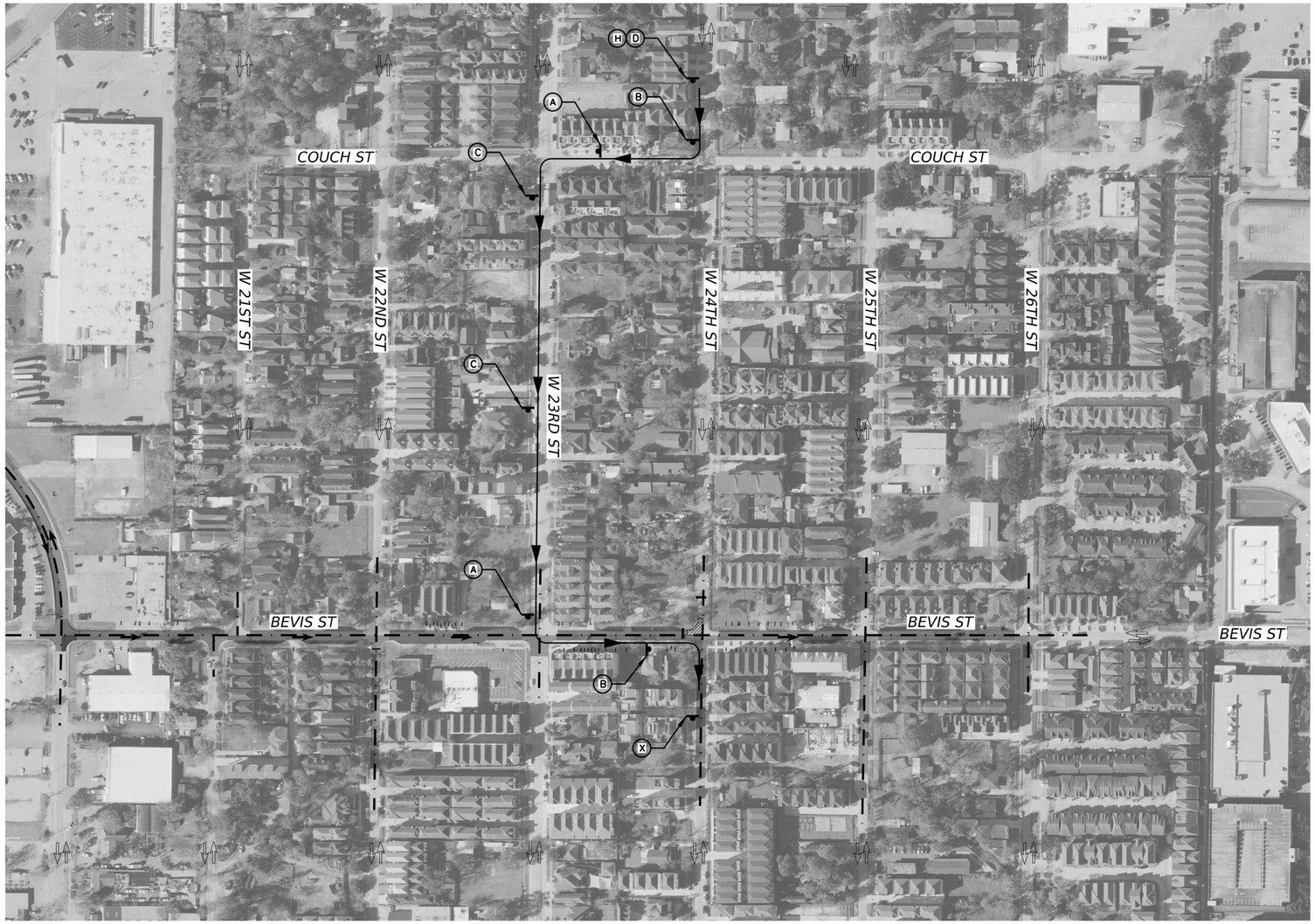
TURKEY GULLY

PHASE 4 STEP 1
W 23RD STREET

SHEET 19 OF 28

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 95 OF 278	

10/27/2025 ...\TCP\TCP_DET_19.dgn
CarlosR
...\TCP\TCP_DET_19.dgn



LEGEND:

- CONSTRUCTION THIS PHASE / STEP
- CONSTRUCTION PREVIOUS PHASE / STEP
- DETOUR ROUTE
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
- EXISTING TRAFFIC
- PROPOSED TRAFFIC

* CHANGE STREET NAME SIGN (M4-12T) TO MATCH CLOSED INTERSECTION

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(A) *
M4-12T VARX12
CLOSED
DETOUR
M4-9L 30x24

(B) *
M4-12T VARX12
CLOSED
DETOUR
M4-9R 30x24

(C) *
M4-12T VARX12
CLOSED
DETOUR
M4-9S 30x24

(D) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TR 30x30

(E) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TL 30x30

(F)
ROAD CLOSED TO THRU TRAFFIC
R11-4 60x30

(G)
ROAD CLOSED
R11-2 48x30

(H)
ROAD CLOSED LOCAL TRAFFIC ONLY
R11-3 60x30

(I)
R3-2 24" x 24"

(J)
R3-1 24" x 24"

(X)
END DETOUR
M4-8a

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TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

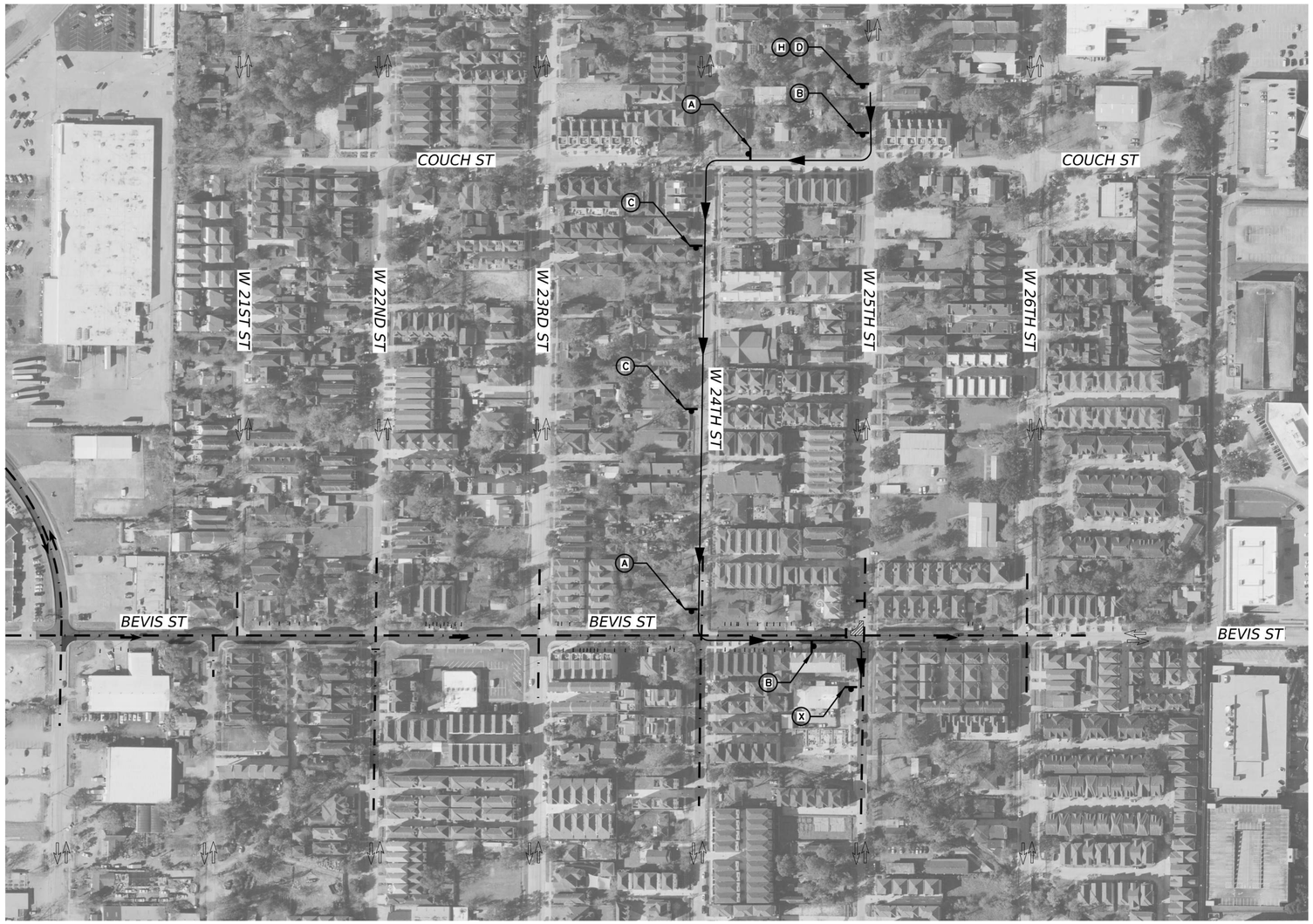
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

PHASE 4 STEP 1
W 24TH STREET

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 96 OF 278	

10/27/2025
TUR_TCPET_20.dgn
CarlosR



LEGEND:

- CONSTRUCTION THIS PHASE / STEP
- CONSTRUCTION PREVIOUS PHASE / STEP
- DETOUR ROUTE
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
- EXISTING TRAFFIC
- PROPOSED TRAFFIC

* CHANGE STREET NAME SIGN (M4-12T) TO MATCH CLOSED INTERSECTION

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(A) * M4-12T VARX12 — CLOSED / DETOUR — M4-9L 30x24

(B) * M4-12T VARX12 — CLOSED / DETOUR — M4-9R 30x24

(C) * M4-12T VARX12 — CLOSED / DETOUR — M4-9S 30x24

(D) * M4-12T VARX12 — CLOSED / DETOUR — M4-9TR 30x30

(E) * M4-12T VARX12 — CLOSED / DETOUR — M4-9TL 30x30

(F) ROAD CLOSED TO THRU TRAFFIC — R11-4 60x30

(G) ROAD CLOSED — R11-2 48x30

(H) ROAD CLOSED LOCAL TRAFFIC ONLY — R11-3 60x30

(I) R3-2 24" x 24"

(J) R3-1 24" x 24"

(X) END DETOUR — M4-8a

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Houston, Texas 77094
(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

PHASE 4 STEP 1
W 25TH STREET

SHEET 21 OF 28

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 97 OF 278	

CarlosR
10/27/2025
...\TCP\TCP_SHEET_21.dgn
...\TCP\TCP_SHEET_21.dgn

LEGEND:

- CONSTRUCTION THIS PHASE / STEP
- CONSTRUCTION PREVIOUS PHASE / STEP
- DETOUR ROUTE
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
- EXISTING TRAFFIC
- PROPOSED TRAFFIC

* CHANGE STREET NAME SIGN (M4-12T) TO MATCH CLOSED INTERSECTION

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(A) *
M4-12T VARX12
CLOSED
DETOUR
M4-9L 30x24

(B) *
M4-12T VARX12
CLOSED
DETOUR
M4-9R 30x24

(C) *
M4-12T VARX12
CLOSED
DETOUR
M4-9S 30x24

(D) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TR 30x30

(E) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TL 30x30

(F)
ROAD CLOSED TO THRU TRAFFIC
R11-4 60x30

(G)
ROAD CLOSED
R11-2 48x30

(H)
ROAD CLOSED LOCAL TRAFFIC ONLY
R11-3 60x30

(I)
R3-2 24" x 24"

(J)
R3-1 24" x 24"

(X)
END DETOUR
M4-8a

IDCUS
Planners | Engineers | Construction Managers
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Houston, Texas 77094
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TBPE FIRM REGISTRATION NO. F-6825

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FB NO. P-6325

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HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

PHASE 4 STEP 1
W 26TH STREET

SHEET 22 OF 28

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 98 OF 278	

10/27/2025
...\TCP\TURKEY TCPSET 22.dgn
CarlosR

LEGEND:

- CONSTRUCTION THIS PHASE / STEP
- CONSTRUCTION PREVIOUS PHASE / STEP
- DETOUR ROUTE
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
- EXISTING TRAFFIC
- PROPOSED TRAFFIC

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(A) *
M4-12T VARX12
CLOSED
DETOUR
M4-9L 30x24

(B) *
M4-12T VARX12
CLOSED
DETOUR
M4-9R 30x24

(C) *
M4-12T VARX12
CLOSED
DETOUR
M4-9S 30x24

(D) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TR 30x30

(E) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TL 30x30

(F)
ROAD CLOSED TO THRU TRAFFIC
R11-4 60x30

(G)
ROAD CLOSED
R11-2 48x30

(H)
ROAD CLOSED LOCAL TRAFFIC ONLY
R11-3 60x30

(I)
R3-2 24" x 24"

(J)
R3-1 24" x 24"

(X)
END DETOUR
M4-8a

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

THESE PLANS ARE PRELIMINARY AND ARE BEING ISSUED FOR REVIEW BY PUBLIC AGENCIES AND OTHER PRELIMINARY PURPOSES. WHEN ISSUED IN FINAL FORM THEY WILL BE SEALED, SIGNED, AND DATED BY THE RESPONSIBLE ENGINEER.

RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

PHASE 4 STEP 2
W 21ST STREET

SHEET 23 OF 28

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 99 OF 278	

10/27/2025
TCP_TCDET_23.dgn
CarlosR

LEGEND:

- CONSTRUCTION THIS PHASE / STEP
- CONSTRUCTION PREVIOUS PHASE / STEP
- DETOUR ROUTE
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
- EXISTING TRAFFIC
- PROPOSED TRAFFIC

* CHANGE STREET NAME SIGN (M4-12T) TO MATCH CLOSED INTERSECTION

NOTES:

1. CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS THROUGH AND AROUND WORK ZONE DURING CONSTRUCTION.
2. CONTRACTOR SHALL PROVIDE ACCESS TO ALL BUSINESSES AND RESIDENCES ALONG THIS PROJECT, AT ALL TIMES DURING CONSTRUCTION, UNLESS OTHERWISE AUTHORIZED SPECIFICALLY BY THE ENGINEER.
3. CONTRACTOR TO COVER SIGNS THAT ARE NOT IN USE DURING CONSTRUCTION ACTIVITIES
4. TRAFFIC CONTROL PLAN DEVICES SHALL BE PLACED IN ACCORDANCE WITH APPLICABLE BC AND TCP STANDARDS.
5. CONTRACTOR SHALL LOCATE SIGNS, BARRICADES AND CHANNELIZATION DEVICES AS APPROVED BY THE ENGINEER.

(A) *
M4-12T VARX12
CLOSED
DETOUR
M4-9L 30x24

(B) *
M4-12T VARX12
CLOSED
DETOUR
M4-9R 30x24

(C) *
M4-12T VARX12
CLOSED
DETOUR
M4-9S 30x24

(D) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TR 30x30

(E) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TL 30x30

(F)
ROAD CLOSED TO THRU TRAFFIC
R11-4 60x30

(G)
ROAD CLOSED
R11-2 48x30

(H)
ROAD CLOSED LOCAL TRAFFIC ONLY
R11-3 60x30

(I)
R3-2 24" x 24"

(J)
R3-1 24" x 24"

(X)
END DETOUR
M4-8a

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15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591

TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

PHASE 4 STEP 2
W 22ND STREET

SHEET 24 OF 28

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 100 OF 278	

10/27/2025 ...\TURK_TCDET_24.dgn
CarlosR

LEGEND:

- CONSTRUCTION THIS PHASE / STEP
- CONSTRUCTION PREVIOUS PHASE / STEP
- DETOUR ROUTE
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
- EXISTING TRAFFIC
- PROPOSED TRAFFIC

* CHANGE STREET NAME SIGN (M4-12T) TO MATCH CLOSED INTERSECTION

NOTES:

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(A) *
M4-12T VARX12
CLOSED
DETOUR
M4-9L 30x24

(B) *
M4-12T VARX12
CLOSED
DETOUR
M4-9R 30x24

(C) *
M4-12T VARX12
CLOSED
DETOUR
M4-9S 30x24

(D) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TR 30x30

(E) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TL 30x30

(F)
ROAD CLOSED TO THRU TRAFFIC
R11-4 60x30

(G)
ROAD CLOSED
R11-2 48x30

(H)
ROAD CLOSED LOCAL TRAFFIC ONLY
R11-3 60x30

(I)
R3-2 24" x 24"

(J)
R3-1 24" x 24"

(X)
END DETOUR
M4-8a

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15915 Katy Freeway, Suite 300
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(713) 541-5591

TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

PHASE 4 STEP 2
W 23RD STREET

SHEET 25 OF 28

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 101 OF 278	

CarlosR
10/27/2025
...\VAR_TCDET_25.dgn

LEGEND:

- CONSTRUCTION THIS PHASE / STEP
- CONSTRUCTION PREVIOUS PHASE / STEP
- DETOUR ROUTE
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
- EXISTING TRAFFIC
- PROPOSED TRAFFIC

* CHANGE STREET NAME SIGN (M4-12T) TO MATCH CLOSED INTERSECTION

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(A) *
M4-12T VARX12
CLOSED
DETOUR
M4-9L 30x24

(B) *
M4-12T VARX12
CLOSED
DETOUR
M4-9R 30x24

(C) *
M4-12T VARX12
CLOSED
DETOUR
M4-9S 30x24

(D) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TR 30x30

(E) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TL 30x30

(F)
ROAD CLOSED TO THRU TRAFFIC
R11-4 60x30

(G)
ROAD CLOSED
R11-2 48x30

(H)
ROAD CLOSED LOCAL TRAFFIC ONLY
R11-3 60x30

(I)
R3-2 24" x 24"

(J)
R3-1 24" x 24"

(X)
END DETOUR
M4-8a

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(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

PHASE 4 STEP 2
W 24TH STREET

SHEET 26 OF 28

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 102 OF 278	

10/27/2025
CarlosR
TCP_TURKEY GULLY_PHASE 4 STEP 2_W 24TH STREET_26.dgn

LEGEND:

- CONSTRUCTION THIS PHASE / STEP
- CONSTRUCTION PREVIOUS PHASE / STEP
- DETOUR ROUTE
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
- EXISTING TRAFFIC
- PROPOSED TRAFFIC

* CHANGE STREET NAME SIGN (M4-12T) TO MATCH CLOSED INTERSECTION

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(A) *
M4-12T VARX12
CLOSED
DETOUR
M4-9L 30x24

(B) *
M4-12T VARX12
CLOSED
DETOUR
M4-9R 30x24

(C) *
M4-12T VARX12
CLOSED
DETOUR
M4-9S 30x24

(D) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TR 30x30

(E) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TL 30x30

(F)
ROAD CLOSED TO THRU TRAFFIC
R11-4 60x30

(G)
ROAD CLOSED
R11-2 48x30

(H)
ROAD CLOSED LOCAL TRAFFIC ONLY
R11-3 60x30

(I)
R3-2 24" x 24"

(J)
R3-1 24" x 24"

(X)
END DETOUR
M4-8a

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Houston, Texas 77094
(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

PHASE 4 STEP 2
W 25TH STREET

SHEET 27 OF 28

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 103 OF 278	

CarlosR
10/27/2025
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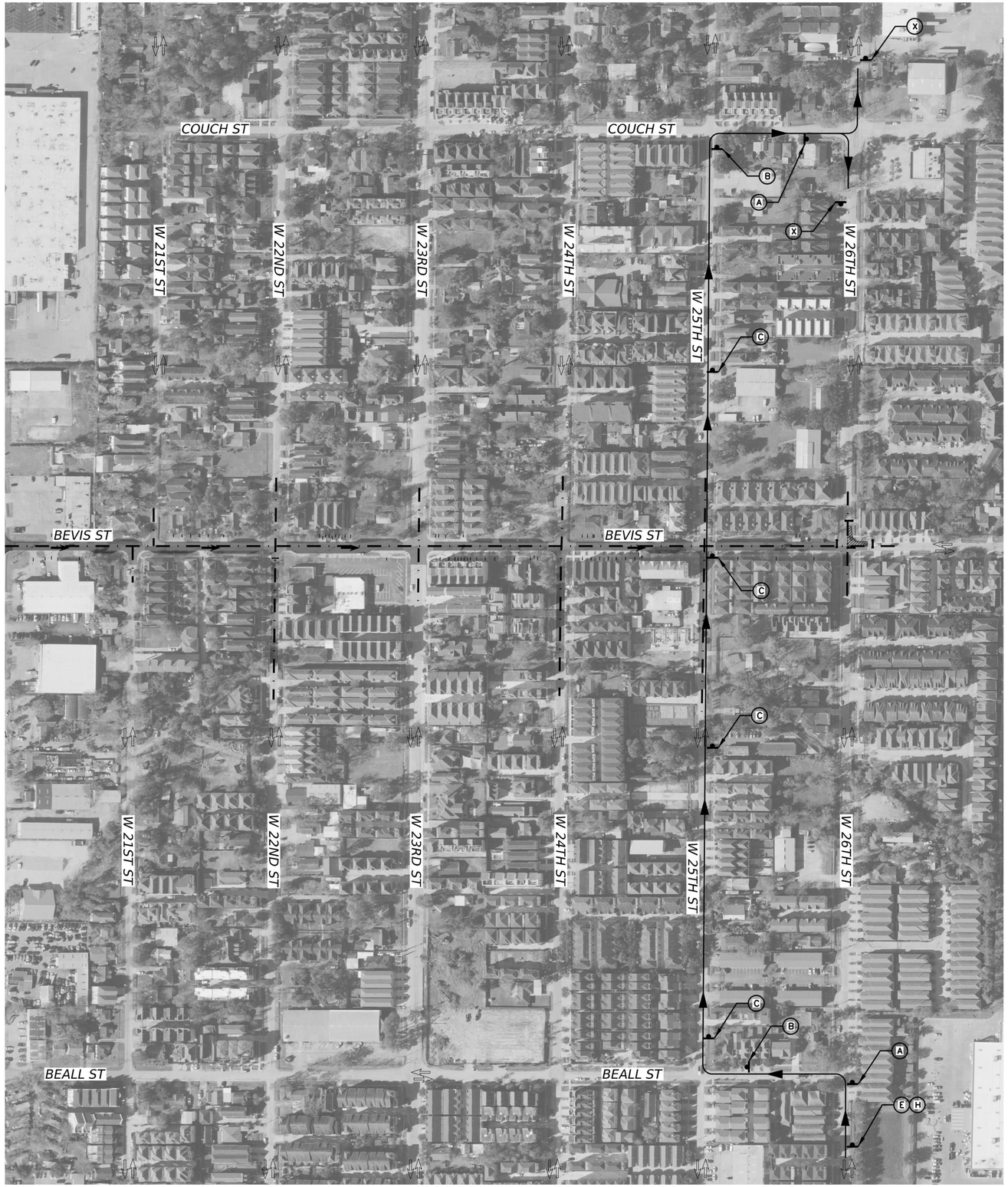
usr:27:TCDET_27



LEGEND:

- CONSTRUCTION THIS PHASE / STEP
- CONSTRUCTION PREVIOUS PHASE / STEP
- DETOUR ROUTE
- TEMPORARY GROUND MOUNTED SIGN
- TYPE III BARRICADE
- EXISTING TRAFFIC
- PROPOSED TRAFFIC

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(A) *
M4-12T VARX12
CLOSED
DETOUR
M4-9L 30x24

(B) *
M4-12T VARX12
CLOSED
DETOUR
M4-9R 30x24

(C) *
M4-12T VARX12
CLOSED
DETOUR
M4-9S 30x24

(D) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TR 30x30

(E) *
M4-12T VARX12
CLOSED
DETOUR
M4-9TL 30x30

(F)
ROAD CLOSED TO THRU TRAFFIC
R11-4 60x30

(G)
ROAD CLOSED
R11-2 48x30

(H)
ROAD CLOSED LOCAL TRAFFIC ONLY
R11-3 60x30

(I)
R3-2 24" x 24"

(J)
R3-1 24" x 24"

(X)
END DETOUR
M4-8a

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Planners | Engineers | Construction Managers
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Houston, Texas 77094
(713) 541-5591

TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

PHASE 4 STEP 2
W 26TH STREET

SHEET 28 OF 28

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 104 OF 278	

10/27/2025
...\TURK_TCDET_28.dgn
CarlosR

SUMMARY OF SIGNS

PLAN SHEET NO.	SIGN NO.	SIGN NOMENCLATURE	SIGN TEXT	DIMENSIONS	SQUARE POST	SIGNAL MOUNT	ROUND POST (PERMISSION NEEDED FROM CITY TRAFFIC ENGINEER)	NUMBER OF POSTS (1 OR 2)	SIGN AREA SQ.FT (FOR INFORMATION ONLY, NOT INTENDED FOR BID)	SIGN POST SIZE (TABLE A)
1	1	W3-3	SIGNAL AHEAD	30"X30"	1			1		1-3/4"X1-3/4"
	2	R1-2	YIELD	36"X36"X36"	1			1		1-3/4"X1-3/4"

infraTECH
Engineers & Innovators, LLC
TBPE REGISTRATION NO. F-18368
11111 WILCREST GREEN DR #410
HOUSTON, TEXAS 77042
OFFICE: 832-991-8164

SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
ZAHIDUL Q. SIDDIQUE, P.E. 98635
10/24/2025

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

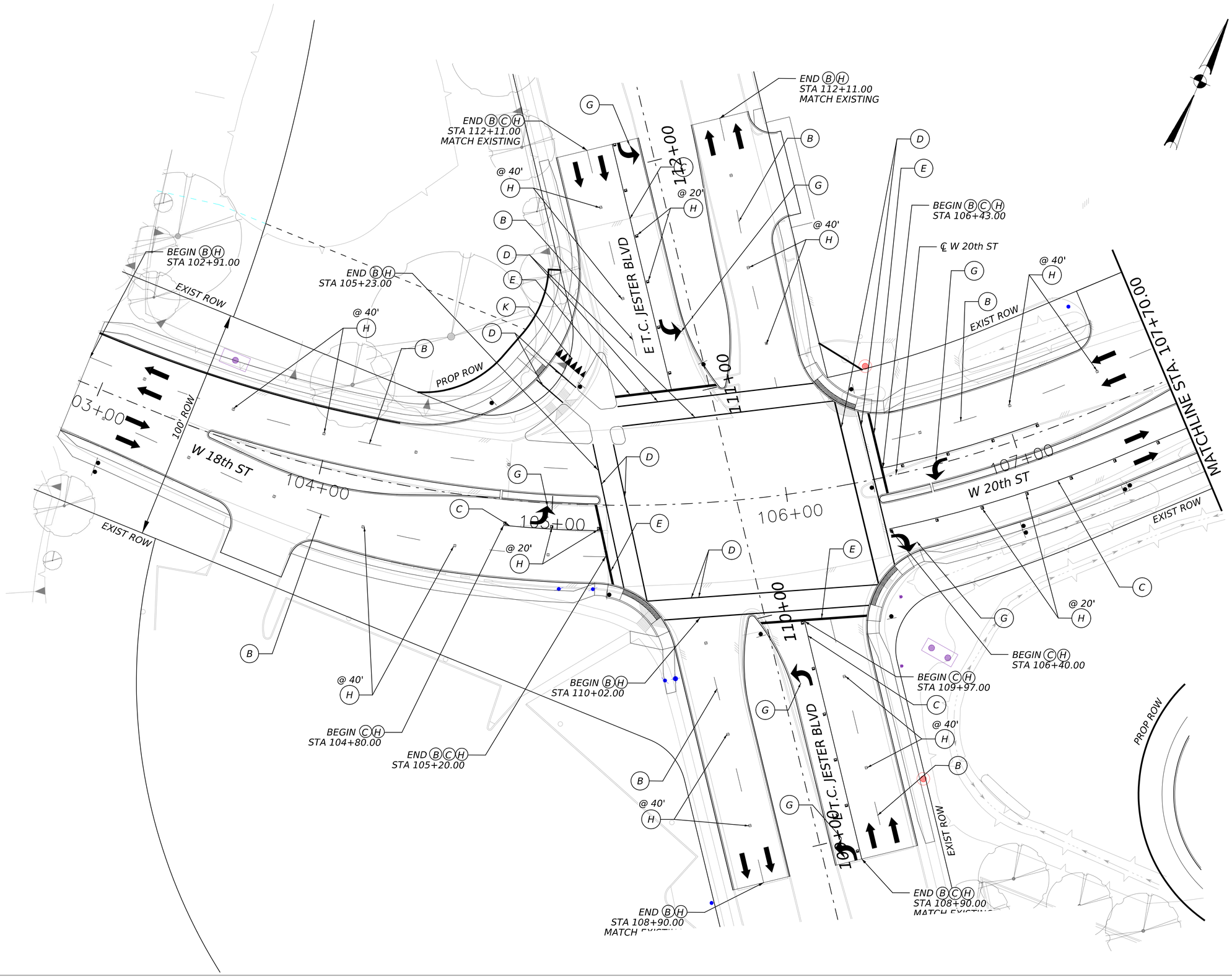
TURKEY GULLY

SUMMARY OF SMALL SIGNS

SHEET 1 OF 1

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
N.T.S	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **105** OF **278**	

$USER$
10/24/2025
$FILEABBREV$
SOSS.dgn



LEGEND:

- DIRECTION OF TRAFFIC
- (A) 4" WHITE SOLID
- (B) 4" WHITE BROKEN
- (C) 6" WHITE SOLID
- (D) 12" WHITE SOLID
- (E) 24" WHITE SOLID
- (F) 4" YELLOW SOLID
- (G) WHITE ARROW
- (H) TY I-C
- (J) TY II-A-A
- (K) YIELD TRIANGLE
- (L) WORD "ONLY"

NOTES:

1. REFER TO COH TRAFFIC STANDARDS FOR ADDITIONAL DETAILS.

0′ 20′ 40′
SCALE IN FEET

infraTECH
Engineers & Innovators, LLC
TBPE REGISTRATION NO. F-18368
11111 WILCREST GREEN DR #410
HOUSTON, TEXAS 77042
OFFICE: 832-991-8164

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ZAHIDUL Q. SIDDIQUE, P.E. 98635
10/24/2025

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TURKEY GULLY
PAVEMENT MARKING LAYOUT
W 20th ST
BEGIN TO STA 107+70.00

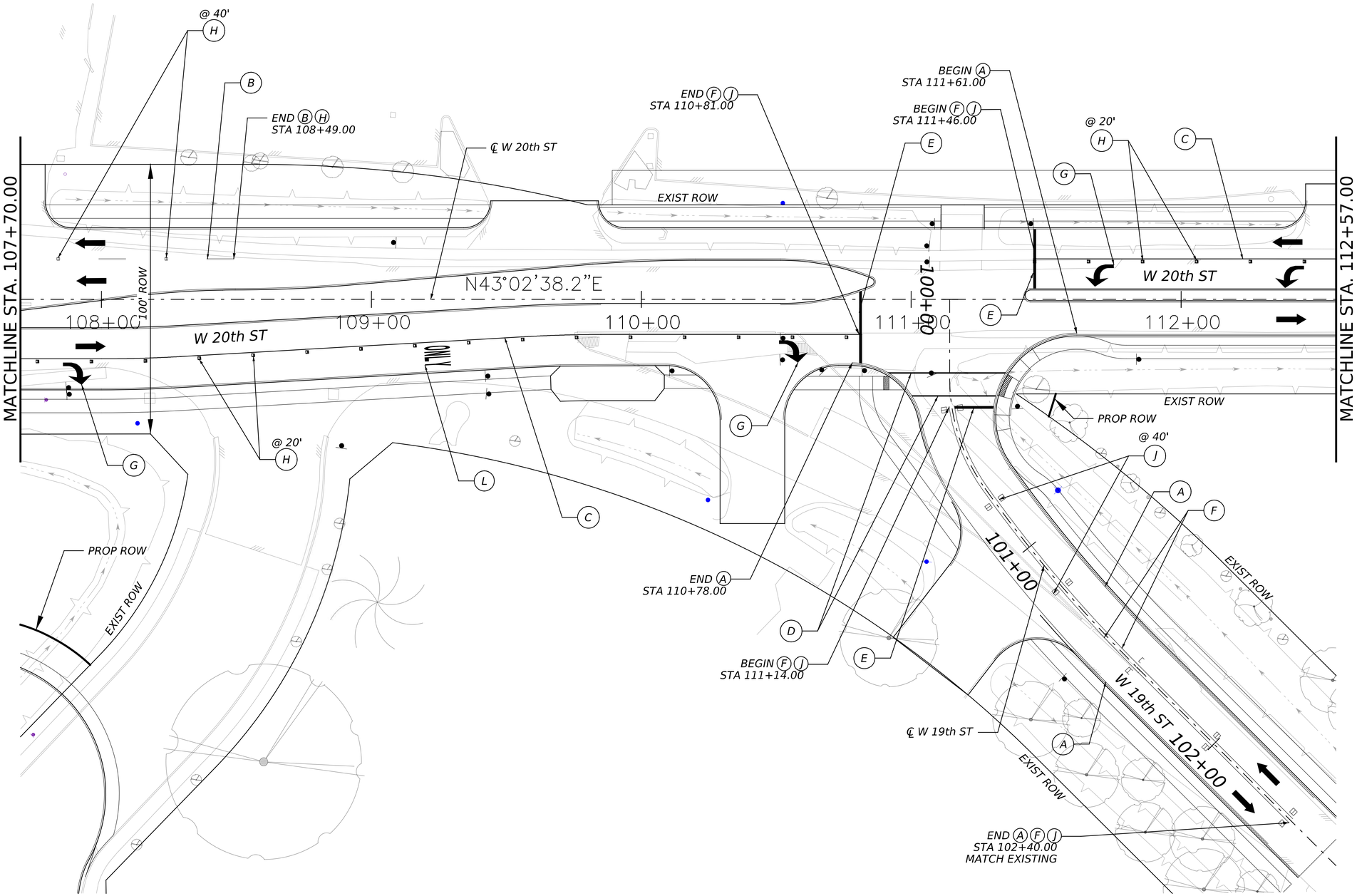
SHEET 1 OF 8

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=40′	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **106** OF **278**	

10/24/2025
$FILEABREV$

TURKEY_PLN_1E1_PM_SHEET 1.dgn

$USER$



LEGEND:

- DIRECTION OF TRAFFIC
- (A) 4" WHITE SOLID
- (B) 4" WHITE BROKEN
- (C) 6" WHITE SOLID
- (D) 12" WHITE SOLID
- (E) 24" WHITE SOLID
- (F) 4" YELLOW SOLID
- (G) WHITE ARROW
- (H) TY I-C
- (J) TY II-A-A
- (K) YIELD TRIANGLE
- (L) WORD "ONLY"

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0' 20' 40'
SCALE IN FEET

infraTECH
Engineers & Innovators, LLC
TBPE REGISTRATION NO. F-18368
11111 WILCREST GREEN DR #410
HOUSTON, TEXAS 77042
OFFICE: 832-991-8164

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ZAHIDUL Q. SIDDIQUE, P.E. 98635
10/24/2025

SURVEYED BY: KUO
FB NO. P-6325

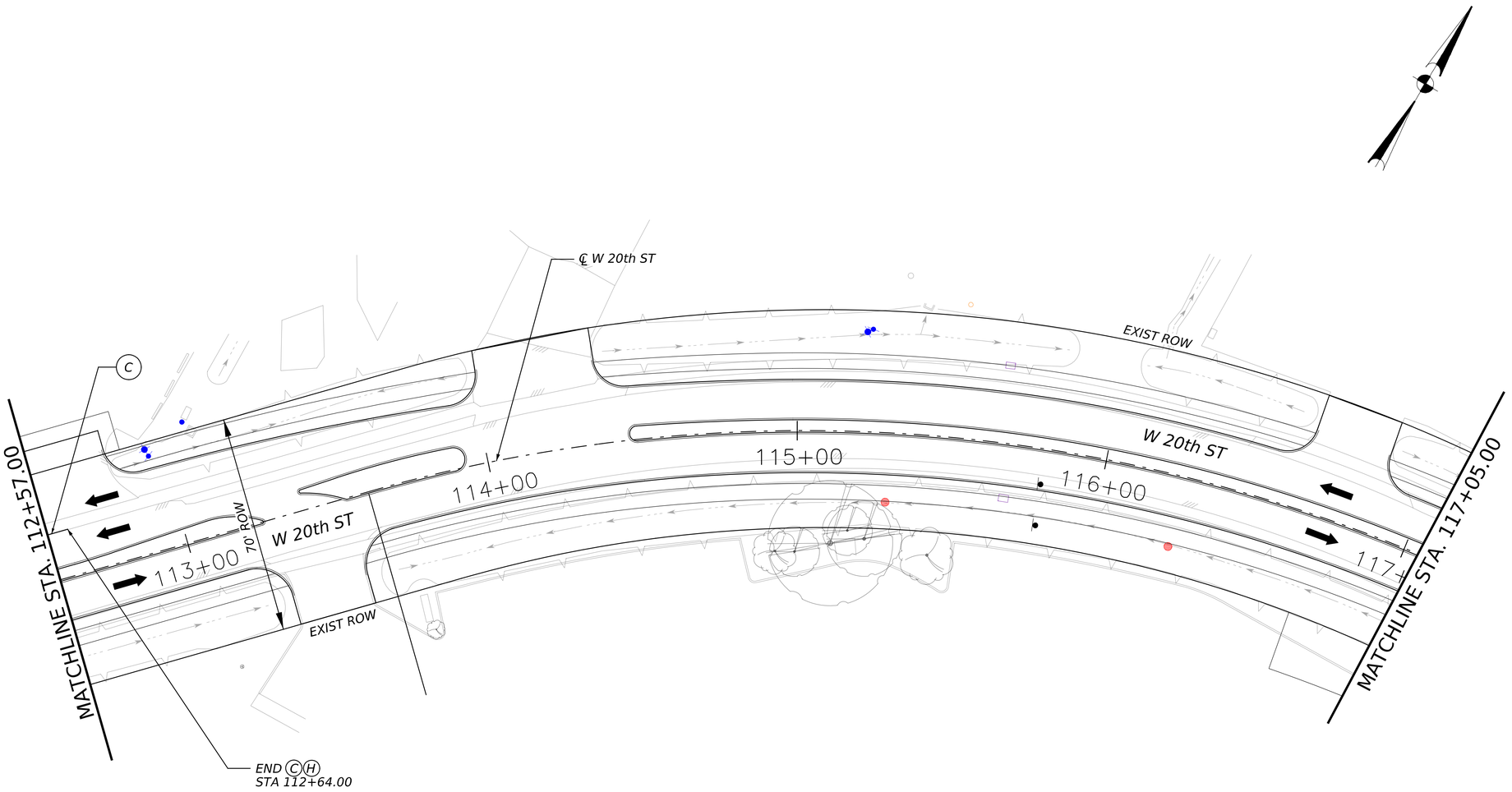
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

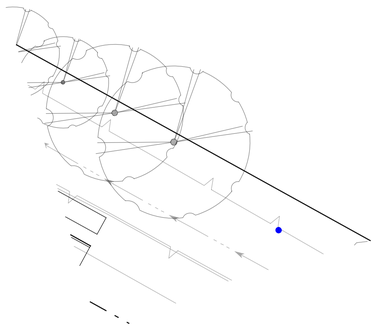
TURKEY GULLY
PAVEMENT MARKING LAYOUT
W 20th ST
STA 107+70.00 TO STA 112+57.00

SHEET 2 OF 8

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **107** OF **278**	

$USER$
10/24/2025
$FILEABBREV$
TURKEY_PLN_1E1_PM_SHEET 2.dgn





LEGEND:

- DIRECTION OF TRAFFIC
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- (B) 4" WHITE BROKEN
- (C) 6" WHITE SOLID
- (D) 12" WHITE SOLID
- (E) 24" WHITE SOLID
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- (G) WHITE ARROW
- (H) TY I-C
- (J) TY II-A-A
- (K) YIELD TRIANGLE
- (L) WORD "ONLY"

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0' 20' 40'
SCALE IN FEET

infraTECH
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10/24/2025

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TURKEY GULLY
PAVEMENT MARKING LAYOUT
W 20th ST
STA 112+57.00 TO STA 117+05.00

SHEET 3 OF 8

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **108** OF **278**	

$USER$
10/24/2025
$FILEBASE$
TURKEY_PLN_IEI_PM_SHEET 3.dgn

MATCHLINE STA. 117+05.00

EXIST ROW
70' ROW
EXIST ROW
W 20th ST
D
E
END (F) (J)
STA 102+82.00
F
D
E
F
℄ BEVIS ST
@ 40'
J
EXIST ROW
END (F) (J)
STA 106+34.00
℄ W 21st ST
EXIST ROW
W 21st ST
E
D
D
A
118+00
103+00
104+00
BEVIS ST
105+00
60' ROW
106+00
107+00
MATCHLINE STA. 107+30.00
@ 40'
J
D
D
E
E
A
E
D
E
BEGIN (F) (J)
STA 103+52.0
BEGIN (F) (J)
STA 102+55.00
EXIST ROW
W 20th ST
N 88°55'42" E - 1,176.00'
119+00
EXIST ROW
℄ W 21st ST
W 21st ST
EXIST ROW
EXIST ROW
℄ W 20th ST
120+00

LEGEND:

- DIRECTION OF TRAFFIC
- (A) 4" WHITE SOLID
- (B) 4" WHITE BROKEN
- (C) 6" WHITE SOLID
- (D) 12" WHITE SOLID
- (E) 24" WHITE SOLID
- (F) 4" YELLOW SOLID
- (G) WHITE ARROW
- (H) TY I-C
- (J) TY II-A-A
- (K) YIELD TRIANGLE
- (L) WORD "ONLY"

NOTES:

1. REFER TO COH TRAFFIC STANDARDS FOR ADDITIONAL DETAILS.

0′ 20′ 40′
SCALE IN FEET

infraTECH
Engineers & Innovators, LLC
TBPE REGISTRATION NO. F-18368
11111 WILCREST GREEN DR #410
HOUSTON, TEXAS 77042
OFFICE: 832-991-8164

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

THESE PLANS ARE PRELIMINARY AND ARE BEING ISSUED FOR REVIEW BY PUBLIC AGENCIES AND OTHER PRELIMINARY PURPOSES. WHEN ISSUED IN FINAL FORM THEY WILL BE SEALED, SIGNED, AND DATED BY THE RESPONSIBLE ENGINEER.

RESPONSIBLE ENGINEER:
ZAHIDUL O. SIDDIQUE, P.E. 98635
10/24/2025

SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

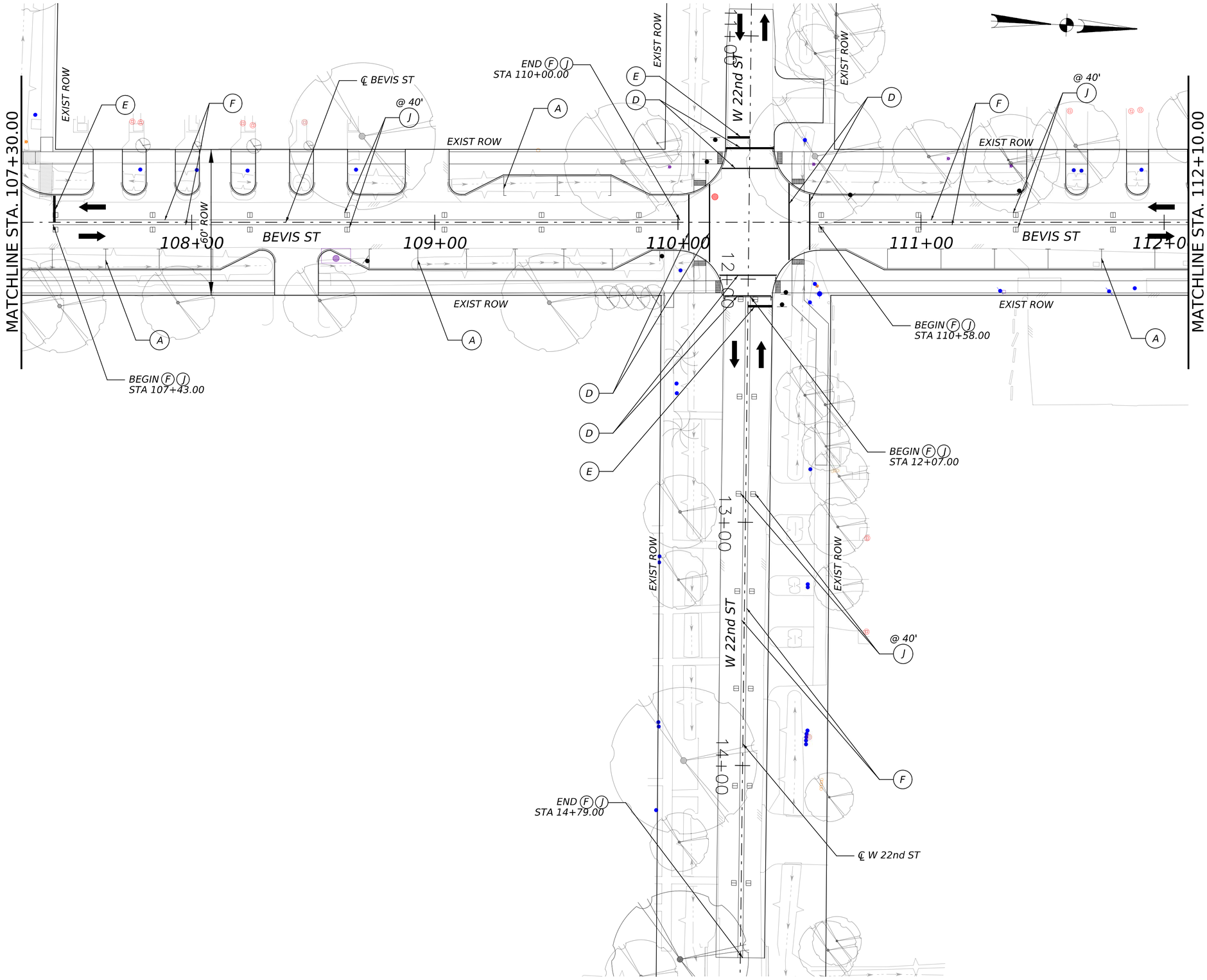
TURKEY GULLY
PAVEMENT MARKING LAYOUT
BEVIS ST
BEGIN TO STA 107+30.00

SHEET 4 OF 8

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=40′	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **109** OF **278**	

$USER$
10/24/2025
$FILEABBREV$

TURKEY_PLN_TEL_PM_SHEET 4.dgn



LEGEND:

- DIRECTION OF TRAFFIC
- (A) 4" WHITE SOLID
- (B) 4" WHITE BROKEN
- (C) 6" WHITE SOLID
- (D) 12" WHITE SOLID
- (E) 24" WHITE SOLID
- (F) 4" YELLOW SOLID
- (G) WHITE ARROW
- (H) TY I-C
- (J) TY II-A-A
- (K) YIELD TRIANGLE
- (L) WORD "ONLY"

NOTES:

1. REFER TO COH TRAFFIC STANDARDS FOR ADDITIONAL DETAILS.

0′ 20′ 40′
SCALE IN FEET

infraTECH
Engineers & Innovators, LLC
TBPE REGISTRATION NO, F-18368
11111 WILCREST GREEN DR #410
HOUSTON, TEXAS 77042
OFFICE: 832-991-8164

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ZAHIDUL Q. SIDDIQUE, P.E. 98635
10/24/2025

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TURKEY GULLY
PAVEMENT MARKING LAYOUT
BEVIS ST
STA 107+30.00 TO STA 112+10.00

SHEET 5 OF 8

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=40′	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **110** OF **278**	

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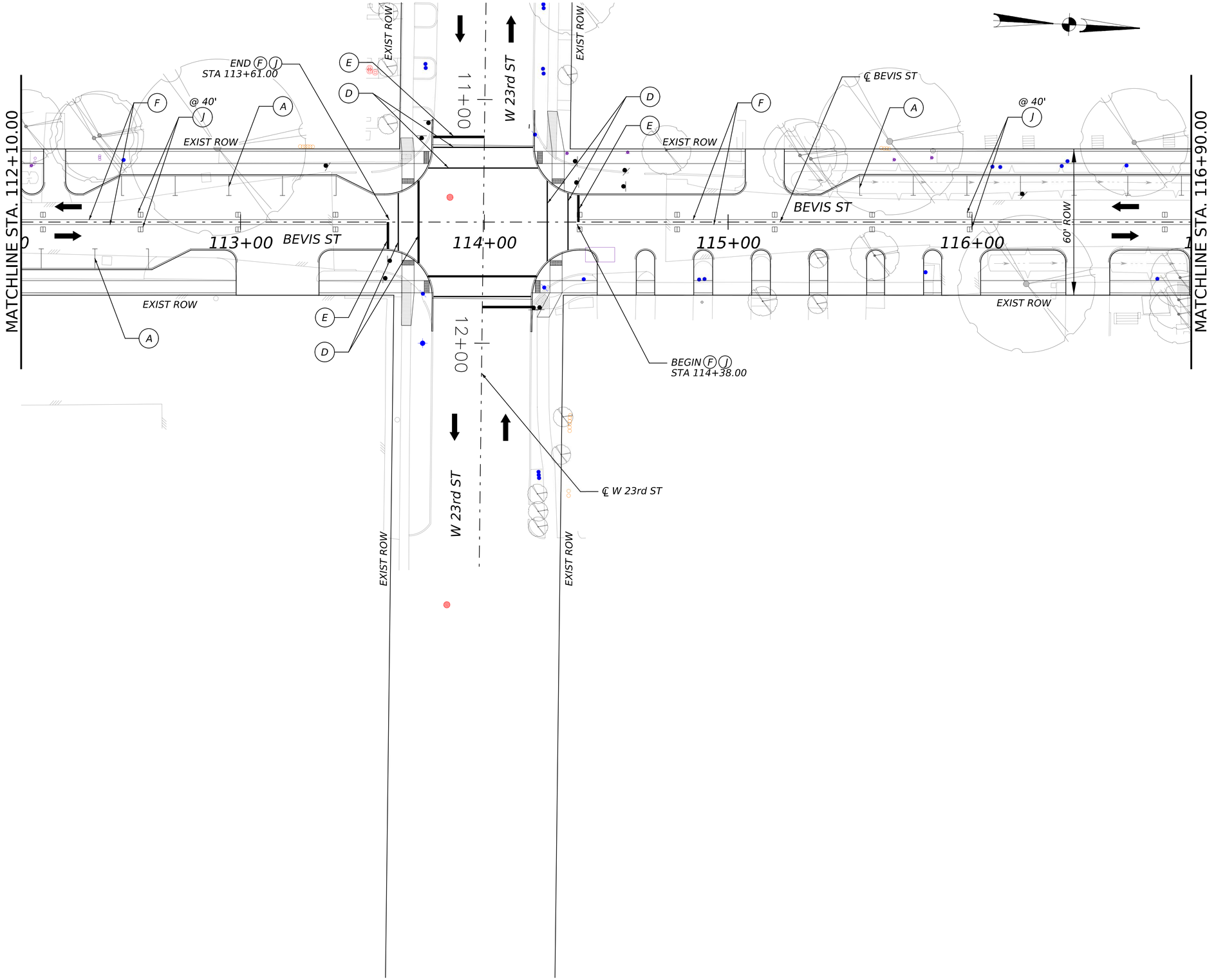
10/24/2025
$FILEABBREV$
TURKEY_PLN_IEI_PM_SHEET 5.dgn



LEGEND:

- DIRECTION OF TRAFFIC
- (A) 4" WHITE SOLID
- (B) 4" WHITE BROKEN
- (C) 6" WHITE SOLID
- (D) 12" WHITE SOLID
- (E) 24" WHITE SOLID
- (F) 4" YELLOW SOLID
- (G) WHITE ARROW
- (H) TY I-C
- (J) TY II-A-A
- (K) YIELD TRIANGLE
- (L) WORD "ONLY"

NOTES:

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0′ 20′ 40′
SCALE IN FEET

infraTECH
Engineers & Innovators, LLC
TBPE REGISTRATION NO. F-18368
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10/24/2025

SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

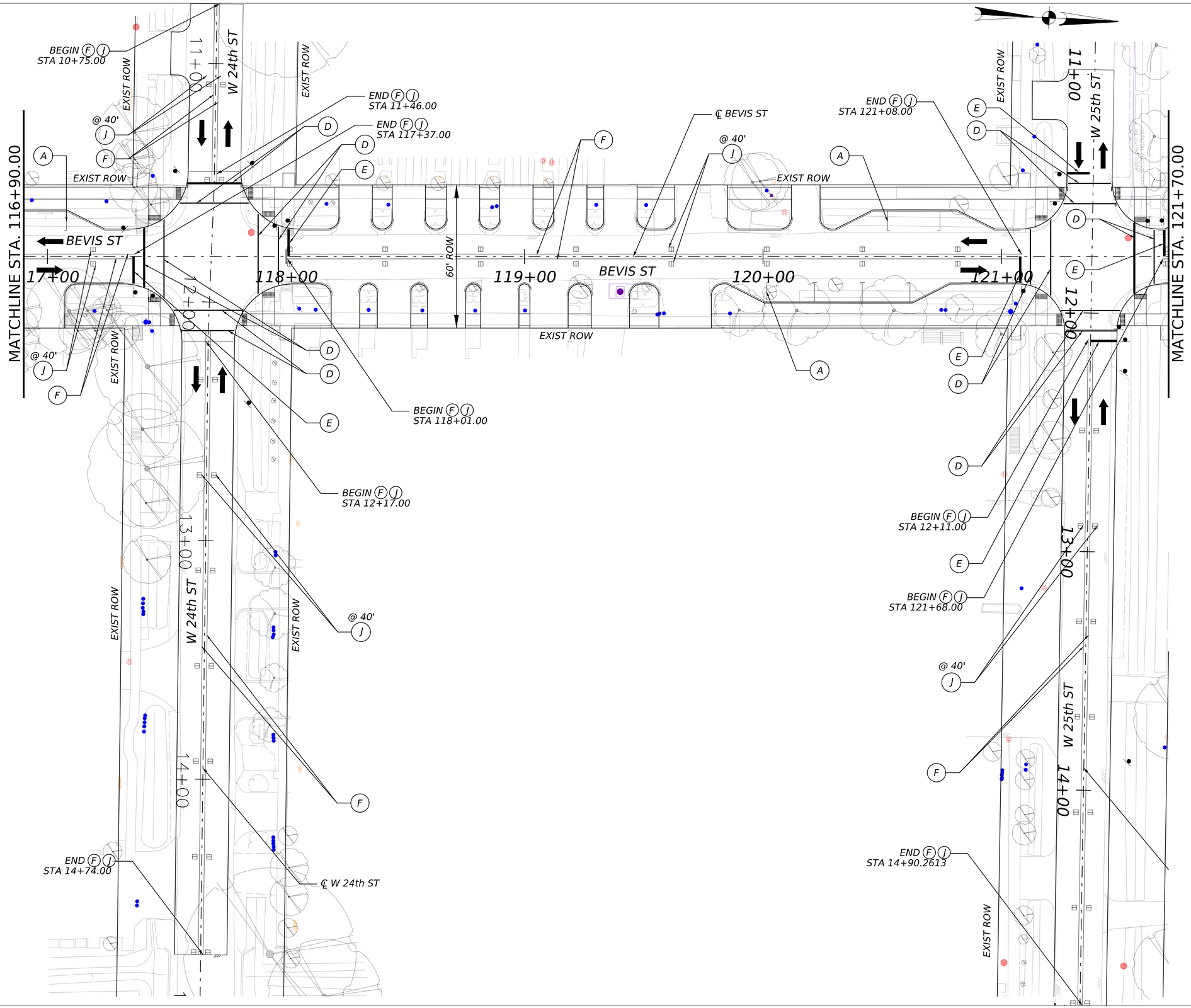
TURKEY GULLY
PAVEMENT MARKING LAYOUT
BEVIS ST
STA 112+10.00 TO STA 116+90.00

SHEET 6 OF 8

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=40′	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **111** OF **278**	

$USER$
10/24/2025
$FILEABBREV$

TURKEY_PLN_IEI_PM_SHEET 6.dgn



LEGEND:

- DIRECTION OF TRAFFIC
- (A) 4" WHITE SOLID
- (B) 4" WHITE BROKEN
- (C) 6" WHITE SOLID
- (D) 12" WHITE SOLID
- (E) 24" WHITE SOLID
- (F) 4" YELLOW SOLID
- (G) WHITE ARROW
- (H) TY I-C
- (J) TY II-A-A
- (K) YIELD TRIANGLE
- (L) WORD "ONLY"

NOTES:

1. REFER TO COH TRAFFIC STANDARDS FOR ADDITIONAL DETAILS.

0′ 20′ 40′
SCALE IN FEET

infraTECH
Engineers & Innovators, LLC
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HOUSTON, TEXAS 77042
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10/24/2025

SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

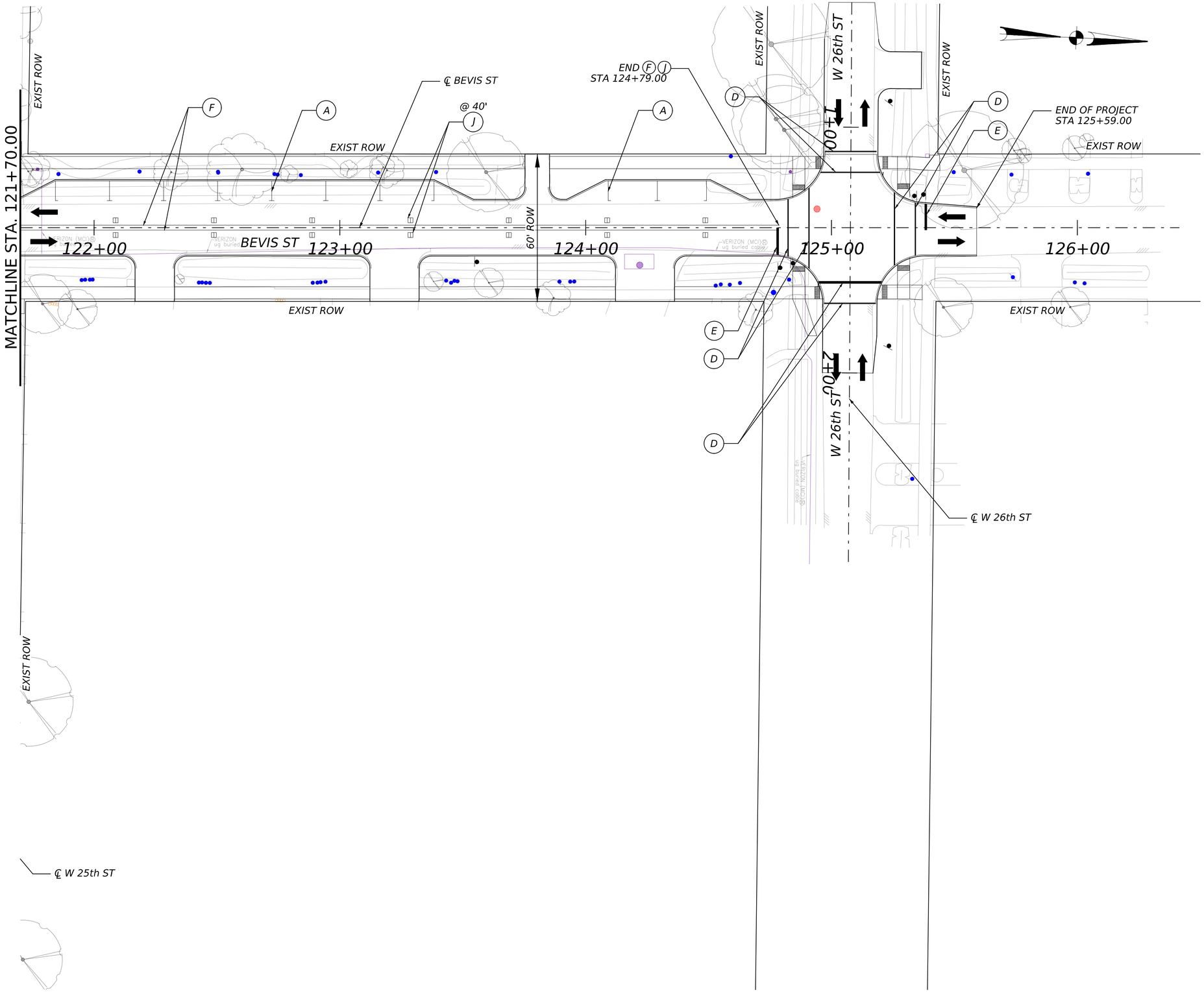
TURKEY GULLY
PAVEMENT MARKING LAYOUT
BEVIS ST
STA 116+90.00 TO STA 121+70.00

SHEET 7 OF 8

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=40′	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **112** OF **278**	

10/24/2025
$USER$
$FILEABBREV$

TURKEY_PLN_IEI_PM_SHEET 7.dgn



LEGEND:

- DIRECTION OF TRAFFIC
- (A) 4" WHITE SOLID
- (B) 4" WHITE BROKEN
- (C) 6" WHITE SOLID
- (D) 12" WHITE SOLID
- (E) 24" WHITE SOLID
- (F) 4" YELLOW SOLID
- (G) WHITE ARROW
- (H) TY I-C
- (J) TY II-A-A
- (K) YIELD TRIANGLE
- (L) WORD "ONLY"

NOTES:

1. REFER TO COH TRAFFIC STANDARDS FOR ADDITIONAL DETAILS.

0′ 20′ 40′
SCALE IN FEET

infraTECH
Engineers & Innovators, LLC
TBPE REGISTRATION NO. F-18368
11111 WILCREST GREEN DR #410
HOUSTON, TEXAS 77042
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RESPONSIBLE ENGINEER:
ZAHIDUL Q. SIDDIQUE, P.E. 98635
10/24/2025

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TURKEY GULLY
PAVEMENT MARKING LAYOUT
BEVIS ST
STA 121+70.00 TO END

SHEET 8 OF 8

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=40′	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **113** OF **278**	

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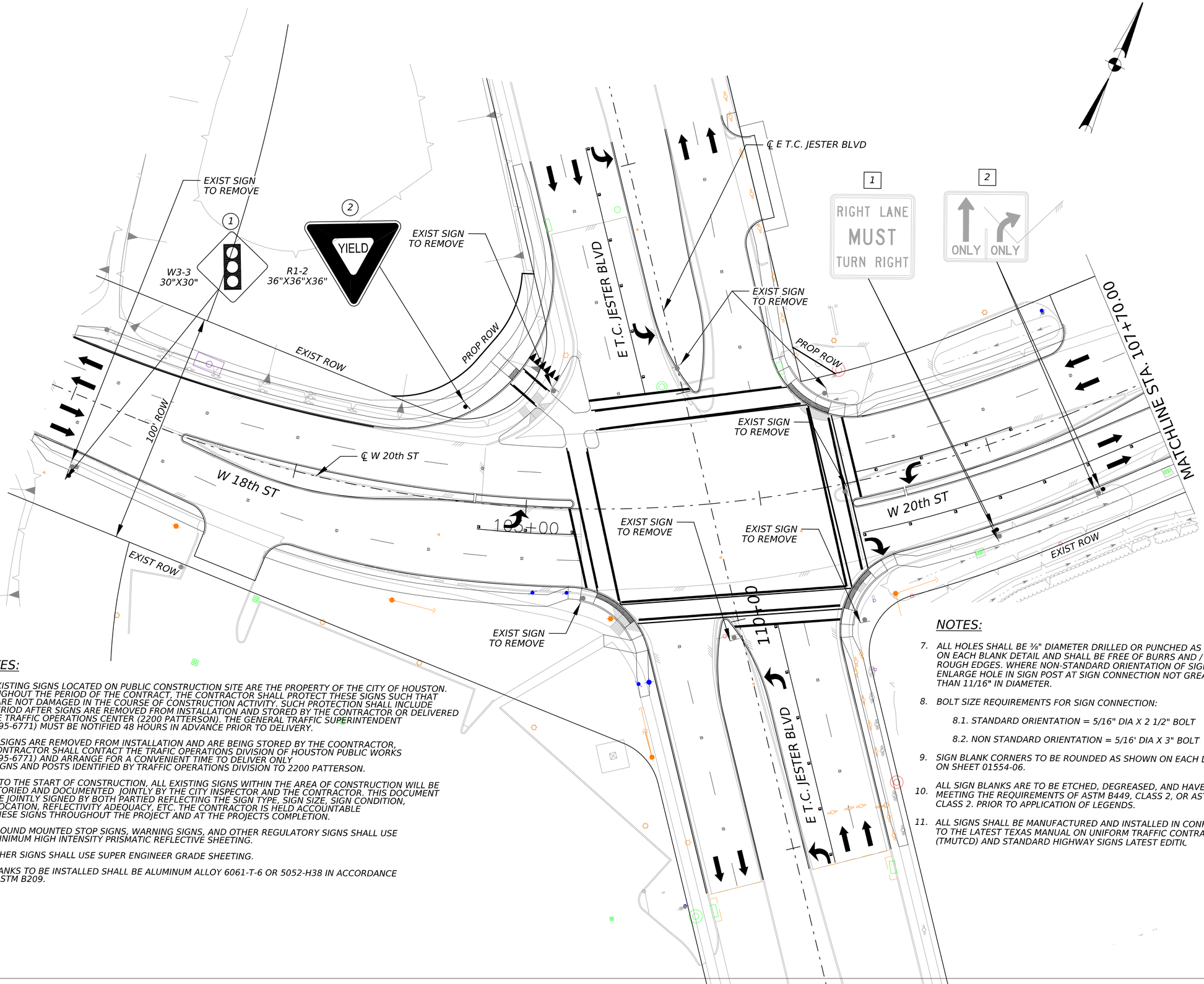
10/24/2025
$FILEABBREV$

TURKEY_PLN_IEI_PM_SHEET 8.dgn



LEGEND:

- DIRECTION OF TRAFFIC
- PROR SMALL SIGN
- EXIST SMALL SIGN
- (X) PRP SMALL SIGN NUMBER
- [X] EXIST SMALL SIGN TO BE RELOCATED

NOTES:

1. REFER TO COH TRAFFIC STANDARDS FOR ADDITIONAL DETAILS.

NOTES:

1. THE EXISTING SIGNS LOCATED ON PUBLIC CONSTRUCTION SITE ARE THE PROPERTY OF THE CITY OF HOUSTON. THROUGHOUT THE PERIOD OF THE CONTRACT, THE CONTRACTOR SHALL PROTECT THESE SIGNS SUCH THAT THEY ARE NOT DAMAGED IN THE COURSE OF CONSTRUCTION ACTIVITY. SUCH PROTECTION SHALL INCLUDE THE PERIOD AFTER SIGNS ARE REMOVED FROM INSTALLATION AND STORED BY THE CONTRACTOR OR DELIVERED TO THE TRAFFIC OPERATIONS CENTER (2200 PATTERSON). THE GENERAL TRAFFIC SUPERINTENDENT (832-395-6771) MUST BE NOTIFIED 48 HOURS IN ADVANCE PRIOR TO DELIVERY.
2. AFTER SIGNS ARE REMOVED FROM INSTALLATION AND ARE BEING STORED BY THE COONTRACTOR, THE CONTRACTOR SHALL CONTACT THE TRAFIC OPERATIONS DIVISION OF HOUSTON PUBLIC WORKS (832-395-6771) AND ARRANGE FOR A CONVENIENT TIME TO DELIVER ONLY CITY SIGNS AND POSTS IDENTIFIED BY TRAFFIC OPERATIONS DIVISION TO 2200 PATTERSON.
3. PRIOR TO THE START OF CONSTRUCTION, ALL EXISTING SIGNS WITHIN THE AREA OF CONSTRUCTION WILL BE INVENTORIED AND DOCUMENTED JOINTLY BY THE CITY INSPECTOR AND THE CONTRACTOR. THIS DOCUMENT WILL BE JOINTLY SIGNED BY BOTH PARTIED REFLECTING THE SIGN TYPE, SIGN SIZE, SIGN CONDITION, SIGN LOCATION, REFLECTIVITY ADEQUACY, ETC. THE CONTRACTOR IS HELD ACCOUNTABLE FOR THESE SIGNS THROUGHOUT THE PROJECT AND AT THE PROJECTS COMPLETION.
4. ALL GROUND MOUNTED STOP SIGNS, WARNING SIGNS, AND OTHER REGULATORY SIGNS SHALL USE AT A MINIMUM HIGH INTENSITY PRISMATIC REFLECTIVE SHEETING.
5. ALL OTHER SIGNS SHALL USE SUPER ENGINEER GRADE SHEETING.
6. ALL BLANKS TO BE INSTALLED SHALL BE ALUMINUM ALLOY 6061-T-6 OR 5052-H38 IN ACCORDANCE WITH ASTM B209.

NOTES:

7. ALL HOLES SHALL BE ⅜" DIAMETER DRILLED OR PUNCHED AS SHOWN ON EACH BLANK DETAIL AND SHALL BE FREE OF BURRS AND / OR ROUGH EDGES. WHERE NON-STANDARD ORIENTATION OF SIGN IS USE ENLARGE HOLE IN SIGN POST AT SIGN CONNECTION NOT GREATER THAN 11/16" IN DIAMETER.
8. BOLT SIZE REQUIREMENTS FOR SIGN CONNECTION:
   - 8.1. STANDARD ORIENTATION = 5/16" DIA X 2 1/2" BOLT
   - 8.2. NON STANDARD ORIENTATION = 5/16' DIA X 3" BOLT
9. SIGN BLANK CORNERS TO BE ROUNDED AS SHOWN ON EACH D ON SHEET 01554-06.
10. ALL SIGN BLANKS ARE TO BE ETCHED, DEGREASED, AND HAVE A CO/ MEETING THE REQUIREMENTS OF ASTM B449, CLASS 2, OR ASTM B9 CLASS 2. PRIOR TO APPLICATION OF LEGENDS.
11. ALL SIGNS SHALL BE MANUFACTURED AND INSTALLED IN CONFORM TO THE LATEST TEXAS MANUAL ON UNIFORM TRAFFIC CONTRAL DE (TMUTCD) AND STANDARD HIGHWAY SIGNS LATEST EDITIC

0′ 20′ 40′
SCALE IN FEET

infraTECH
Engineers & Innovators, LLC
TBPE REGISTRATION NO, F-18368
11111 WILCREST GREEN DR #410
HOUSTON, TEXAS 77042
OFFICE: 832-991-8164

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

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RESPONSIBLE ENGINEER:
ZAHIDUL Q. SIDDIQUE, P.E. 98635
10/24/2025

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TURKEY GULLY
SIGNING LAYOUT
W 20th ST
BEGIN TO STA 107+70.00

SHEET 1 OF 8

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=40′	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **114** OF **278**	

$USER$
10/24/2025
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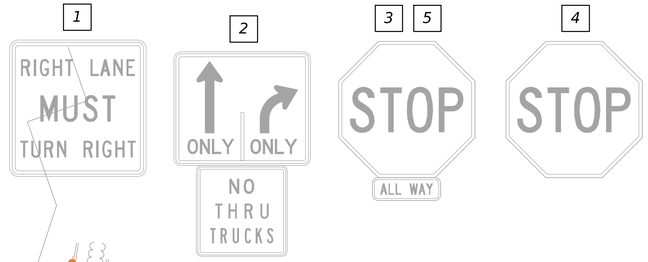
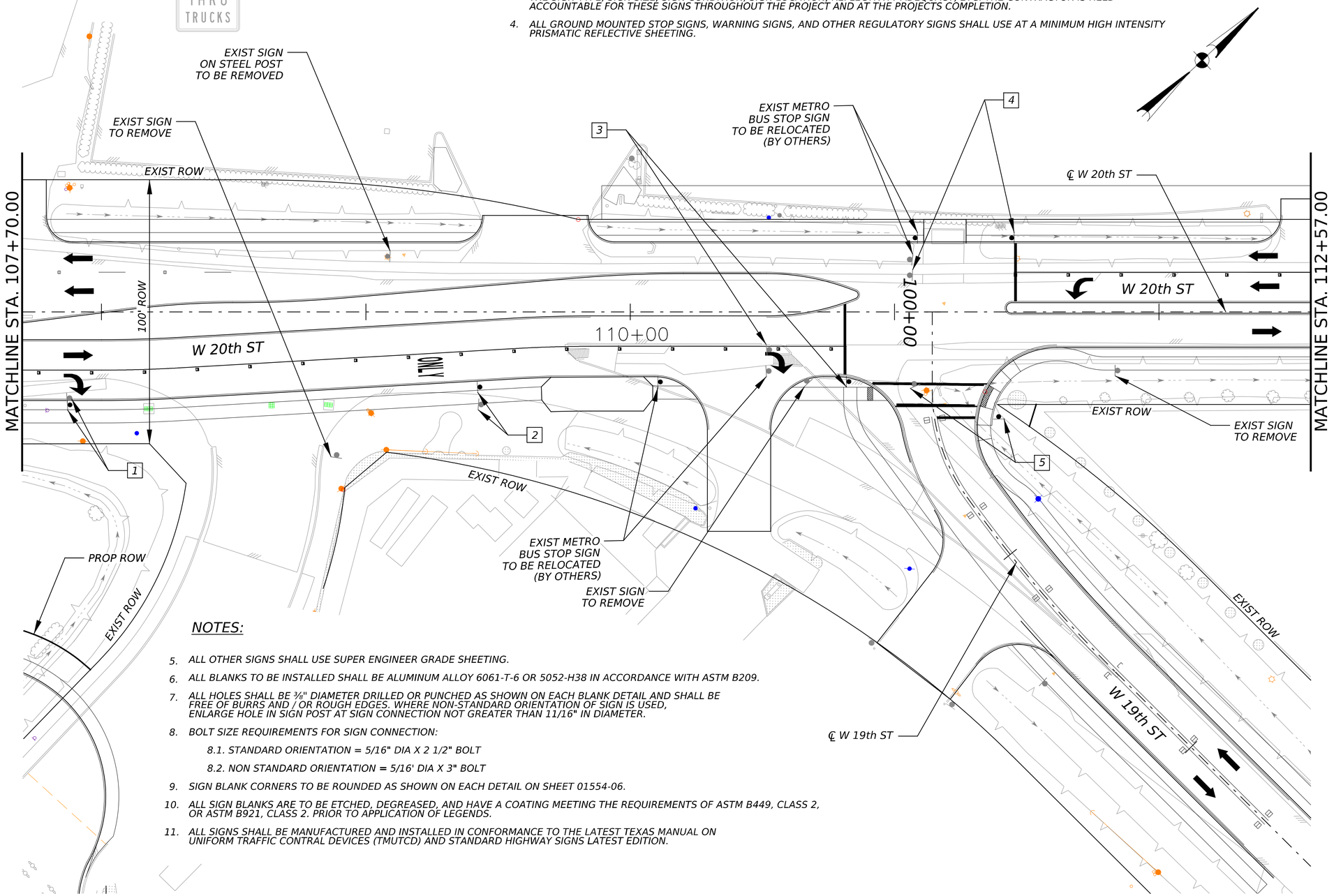
TURKEY_PLN_1E1_SIGNING_SHEET 1.dgn



NOTES:

1. *THE EXISTING SIGNS LOCATED ON PUBLIC CONSTRUCTION SITE ARE THE PROPERTY OF THE CITY OF HOUSTON. THROUGHOUT THE PERIOD OF THE CONTRACT, THE CONTRACTOR SHALL PROTECT THESE SIGNS SUCH THAT THEY ARE NOT DAMAGED IN THE COURSE OF CONSTRUCTION ACTIVITY. SUCH PROTECTION SHALL INCLUDE THE PERIOD AFTER SIGNS ARE REMOVED FROM INSTALLATION AND STORED BY THE CONTRACTOR OR DELIVERED TO THE TRAFFIC OPERATIONS CENTER (2200 PATTERSON). THE GENERAL TRAFFIC SUPERINTENDENT (832-395-6771) MUST BE NOTIFIED 48 HOURS IN ADVANCE PRIOR TO DELIVERY.*
2. *AFTER SIGNS ARE REMOVED FROM INSTALLATION AND ARE BEING STORED BY THE COONTRACTOR, THE CONTRACTOR SHALL CONTACT THE TRAFIC OPERATIONS DIVISION OF HOUSTON PUBLIC WORKS (832-395-6771) AND ARRANGE FOR A CONVENIENT TIME TO DELIVER ONLY CITY SIGNS AND POSTS IDENTIFIED BY TRAFFIC OPERATIONS DIVISION TO 2200 PATTERSON.*
3. *PRIOR TO THE START OF CONSTRUCTION, ALL EXISTING SIGNS WITHIN THE AREA OF CONSTRUCTION WILL BE INVENTORIED AND DOCUMENTED JOINTLY BY THE CITY INSPECTOR AND THE CONTRACTOR. THIS DOCUMENT WILL BE JOINTLY SIGNED BY BOTH PARTIED REFLECTING THE SIGN TYPE, SIGN SIZE, SIGN CONDITION, SIGN LOCATION, REFLECTIVITY ADEQUACY, ETC. THE CONTRACTOR IS HELD ACCOUNTABLE FOR THESE SIGNS THROUGHOUT THE PROJECT AND AT THE PROJECTS COMPLETION.*
4. *ALL GROUND MOUNTED STOP SIGNS, WARNING SIGNS, AND OTHER REGULATORY SIGNS SHALL USE AT A MINIMUM HIGH INTENSITY PRISMATIC REFLECTIVE SHEETING.*



NOTES:

5. *ALL OTHER SIGNS SHALL USE SUPER ENGINEER GRADE SHEETING.*
6. *ALL BLANKS TO BE INSTALLED SHALL BE ALUMINUM ALLOY 6061-T-6 OR 5052-H38 IN ACCORDANCE WITH ASTM B209.*
7. *ALL HOLES SHALL BE ⅜" DIAMETER DRILLED OR PUNCHED AS SHOWN ON EACH BLANK DETAIL AND SHALL BE FREE OF BURRS AND / OR ROUGH EDGES. WHERE NON-STANDARD ORIENTATION OF SIGN IS USED, ENLARGE HOLE IN SIGN POST AT SIGN CONNECTION NOT GREATER THAN 11/16" IN DIAMETER.*
8. *BOLT SIZE REQUIREMENTS FOR SIGN CONNECTION:*
   - 8.1. *STANDARD ORIENTATION = 5/16" DIA X 2 1/2" BOLT*
   - 8.2. *NON STANDARD ORIENTATION = 5/16' DIA X 3" BOLT*
9. *SIGN BLANK CORNERS TO BE ROUNDED AS SHOWN ON EACH DETAIL ON SHEET 01554-06.*
10. *ALL SIGN BLANKS ARE TO BE ETCHED, DEGREASED, AND HAVE A COATING MEETING THE REQUIREMENTS OF ASTM B449, CLASS 2, OR ASTM B921, CLASS 2. PRIOR TO APPLICATION OF LEGENDS.*
11. *ALL SIGNS SHALL BE MANUFACTURED AND INSTALLED IN CONFORMANCE TO THE LATEST TEXAS MANUAL ON UNIFORM TRAFFIC CONTRAL DEVICES (TMUTCD) AND STANDARD HIGHWAY SIGNS LATEST EDITION.*

LEGEND:

- DIRECTION OF TRAFFIC
- PROR SMALL SIGN
- EXIST SMALL SIGN
- (X) PRP SMALL SIGN NUMBER
- [X] EXIST SMALL SIGN TO BE RELOCATED

NOTES:

1. REFER TO COH TRAFFIC STANDARDS FOR ADDITIONAL DETAILS.

0′ 20′ 40′
SCALE IN FEET

infraTECH
Engineers & Innovators, LLC
TBPE REGISTRATION NO. F-18368
11111 WILCREST GREEN DR #410
HOUSTON, TEXAS 77042
OFFICE: 832-991-8164

SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
ZAHIDUL Q. SIDDIQUE, P.E. 98635
10/24/2025

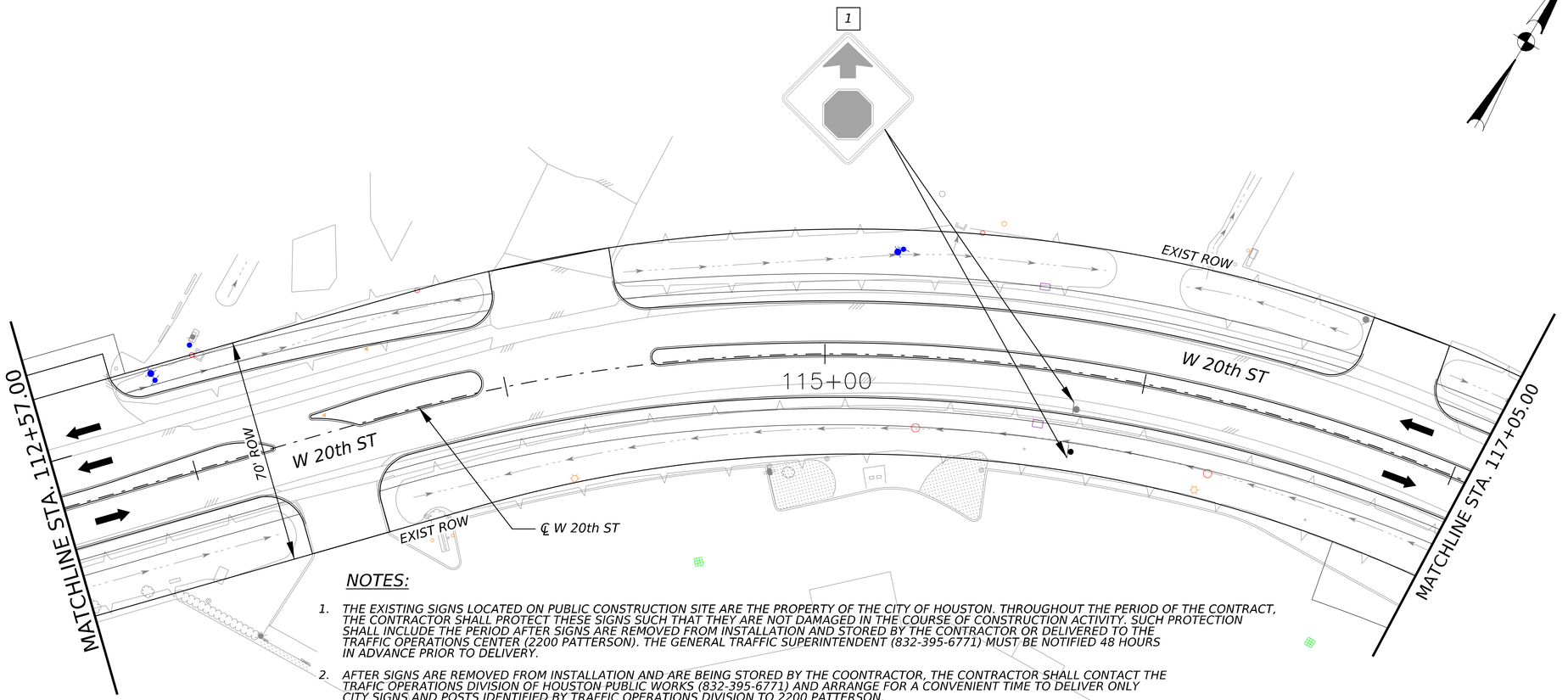
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TURKEY GULLY
SIGNING LAYOUT
W 20th ST
STA 107+70.00 TO STA 112+57.00

SHEET 2 OF 8

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **115** OF **278**	

$USER$
10/24/2025
$FILEABREV$
TURKEY_PLN_TEI_SIGNING_SHEET 2.dgn



LEGEND:

- DIRECTION OF TRAFFIC
- PROR SMALL SIGN
- EXIST SMALL SIGN
- (X) PRP SMALL SIGN NUMBER
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4. *ALL GROUND MOUNTED STOP SIGNS, WARNING SIGNS, AND OTHER REGULATORY SIGNS SHALL USE AT A MINIMUM HIGH INTENSITY PRISMATIC REFLECTIVE SHEETING.*
5. *ALL OTHER SIGNS SHALL USE SUPER ENGINEER GRADE SHEETING.*
6. *ALL BLANKS TO BE INSTALLED SHALL BE ALUMINUM ALLOY 6061-T-6 OR 5052-H38 IN ACCORDANCE WITH ASTM B209.*
7. *ALL HOLES SHALL BE ⅜" DIAMETER DRILLED OR PUNCHED AS SHOWN ON EACH BLANK DETAIL AND SHALL BE FREE OF BURRS AND / OR ROUGH EDGES. WHERE NON-STANDARD ORIENTATION OF SIGN IS USED, ENLARGE HOLE IN SIGN POST AT SIGN CONNECTION NOT GREATER THAN 11/16" IN DIAMETER.*
8. *BOLT SIZE REQUIREMENTS FOR SIGN CONNECTION:*
   - *8.1. STANDARD ORIENTATION = 5/16" DIA X 2 1/2" BOLT*
   - *8.2. NON STANDARD ORIENTATION = 5/16' DIA X 3" BOLT*
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0′ 20′ 40′
SCALE IN FEET

infraTECH
Engineers & Innovators, LLC
TBPE REGISTRATION NO. F-18368
11111 WILCREST GREEN DR #410
HOUSTON, TEXAS 77042
OFFICE: 832-991-8164

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

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RESPONSIBLE ENGINEER:
ZAHIDUL Q. SIDDIQUE, P.E. 98635
10/24/2025

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TURKEY GULLY
SIGNING LAYOUT
W 20th ST
STA 112+57.00 TO STA 117+05.00

SHEET 3 OF 8

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=40′	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **116** OF **278**	

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10/24/2025
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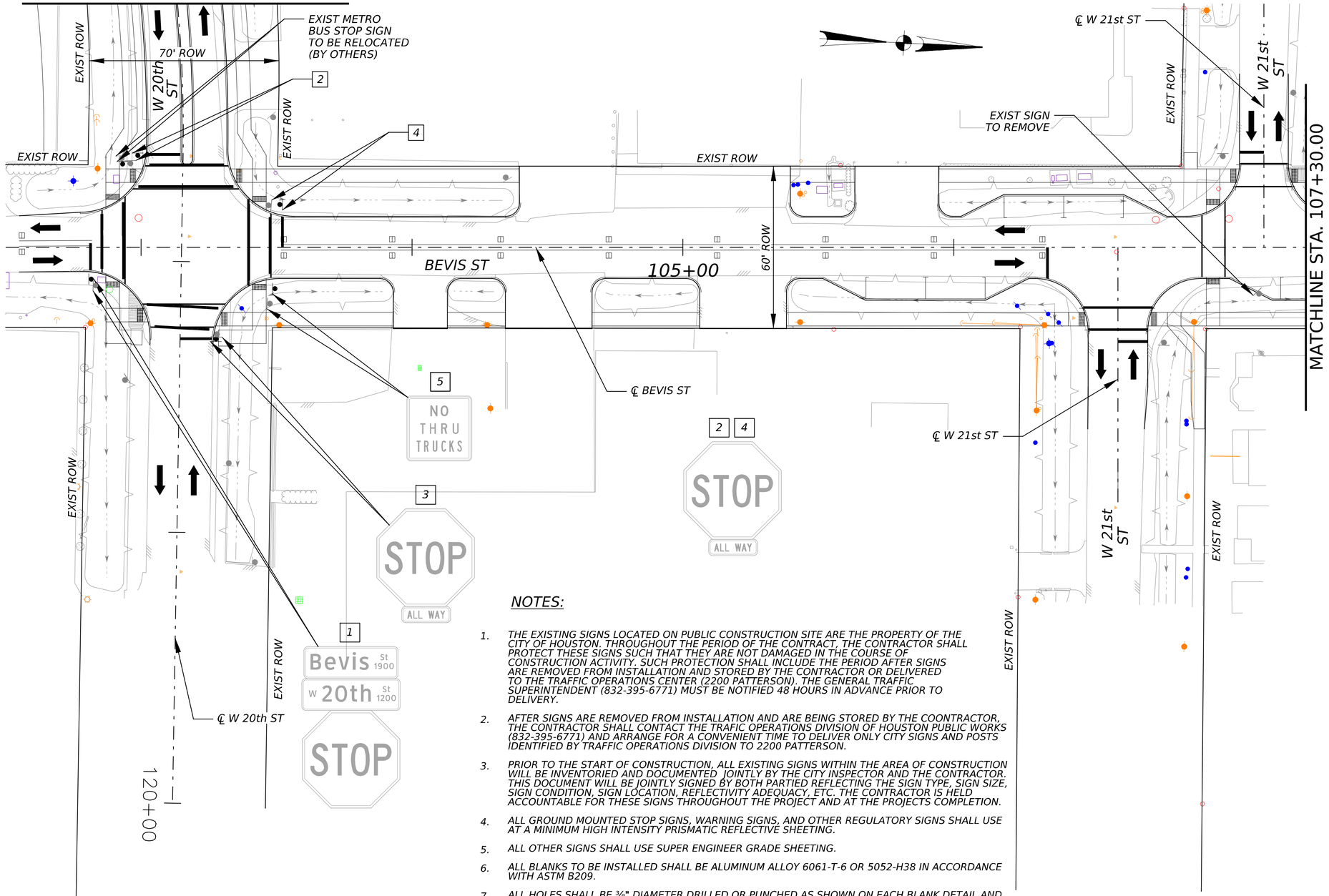
TURKEY_PLN_TIE_SIGNING_SHEET 3.dgn



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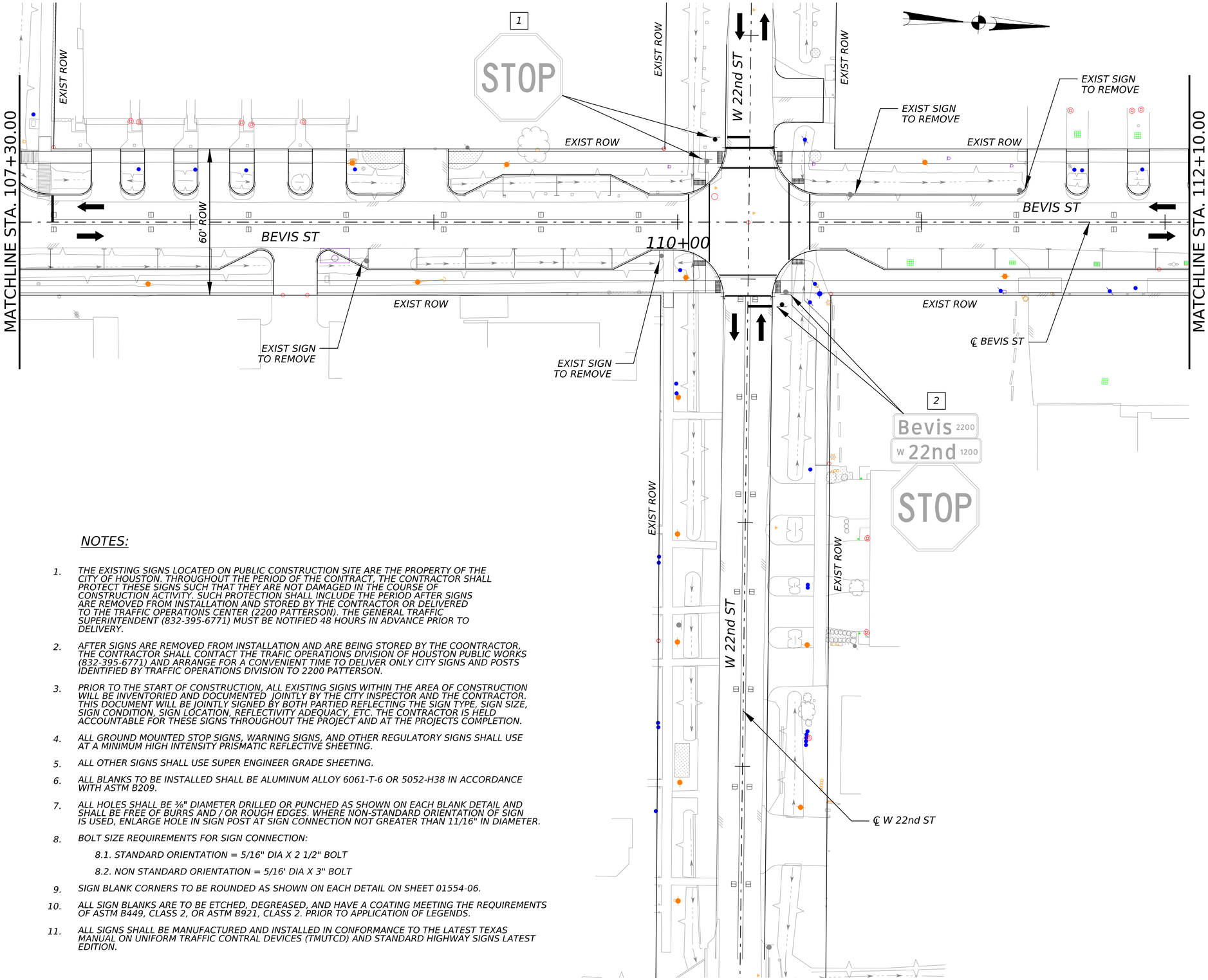

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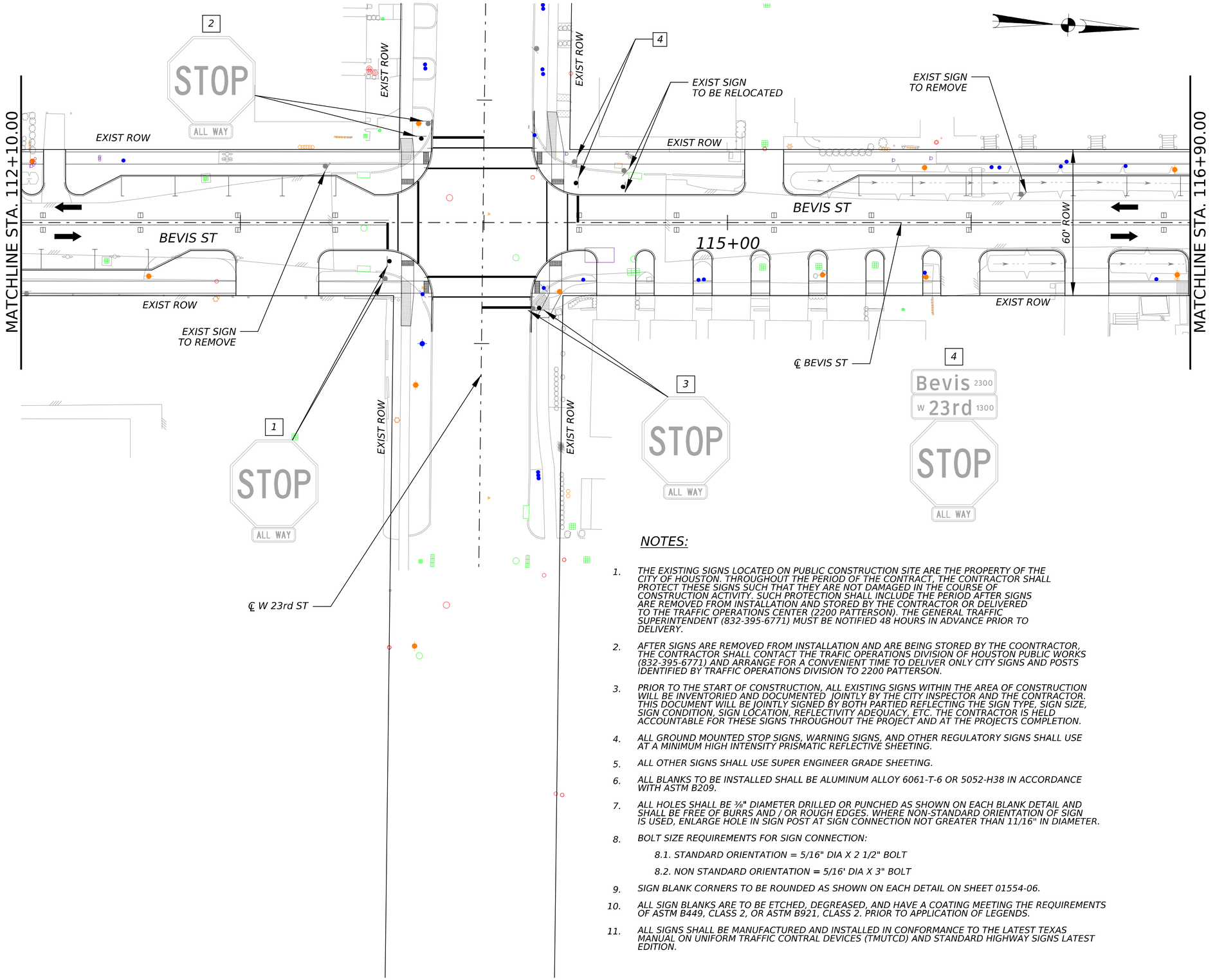

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SHEET 6 OF 8

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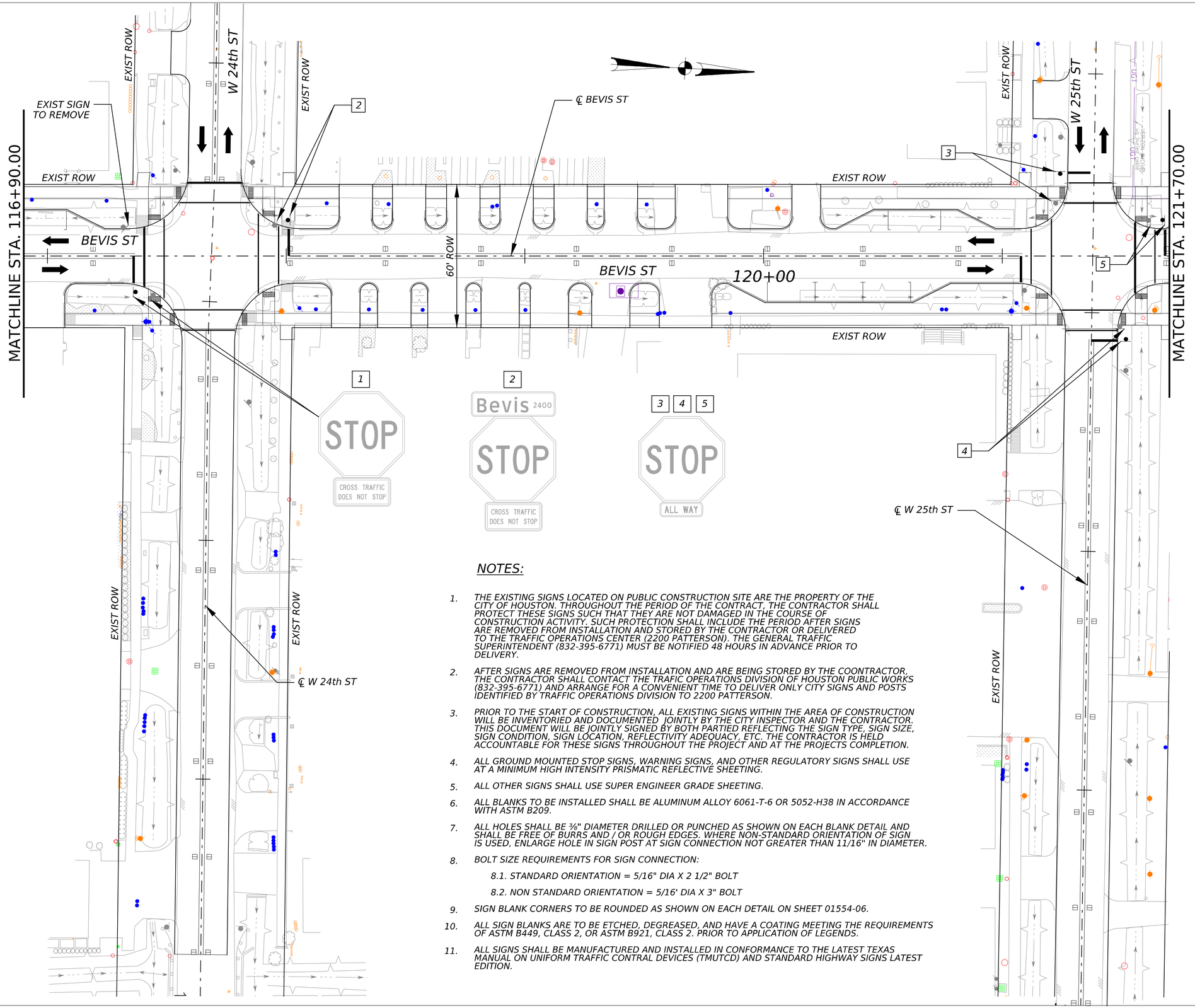

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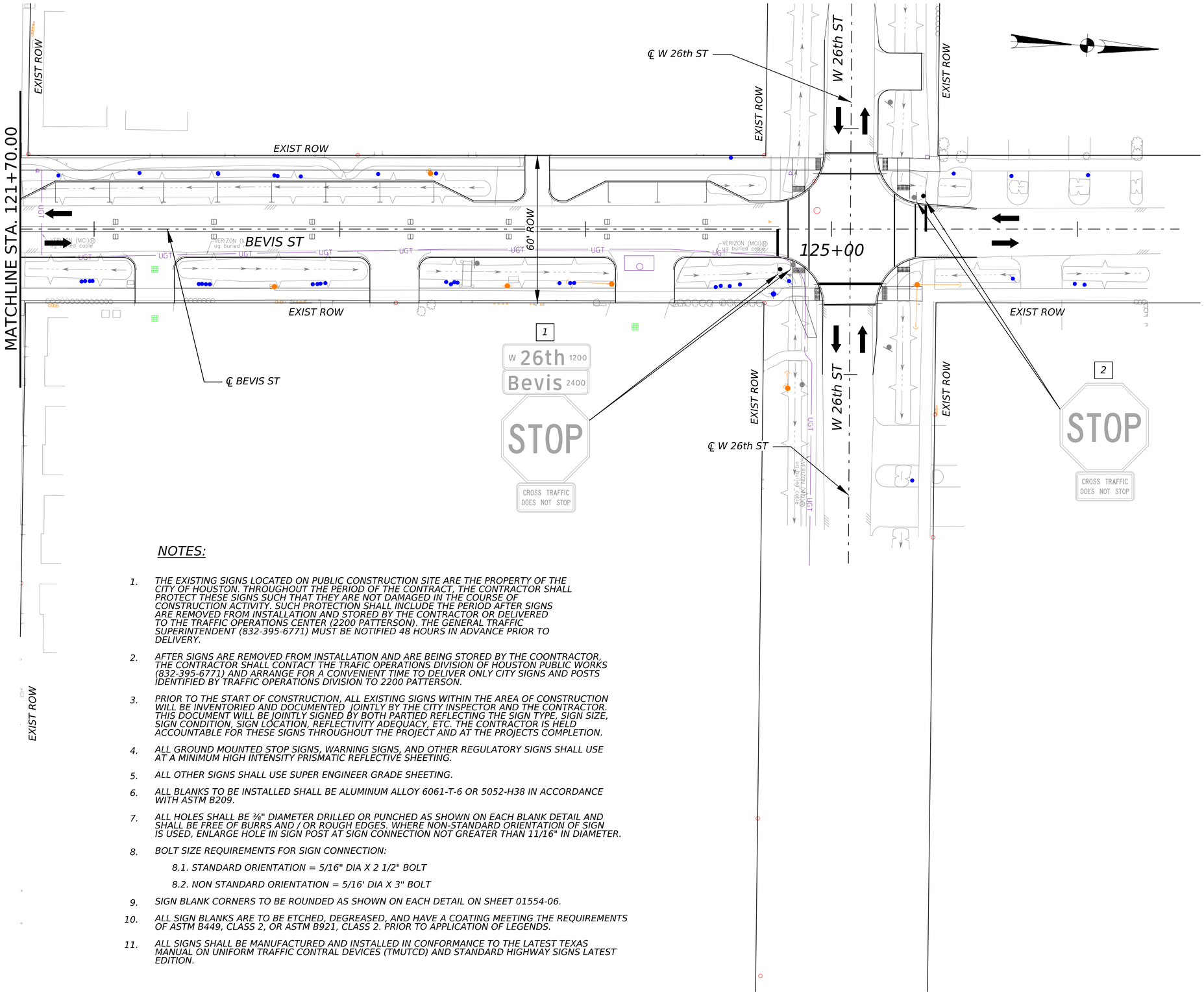

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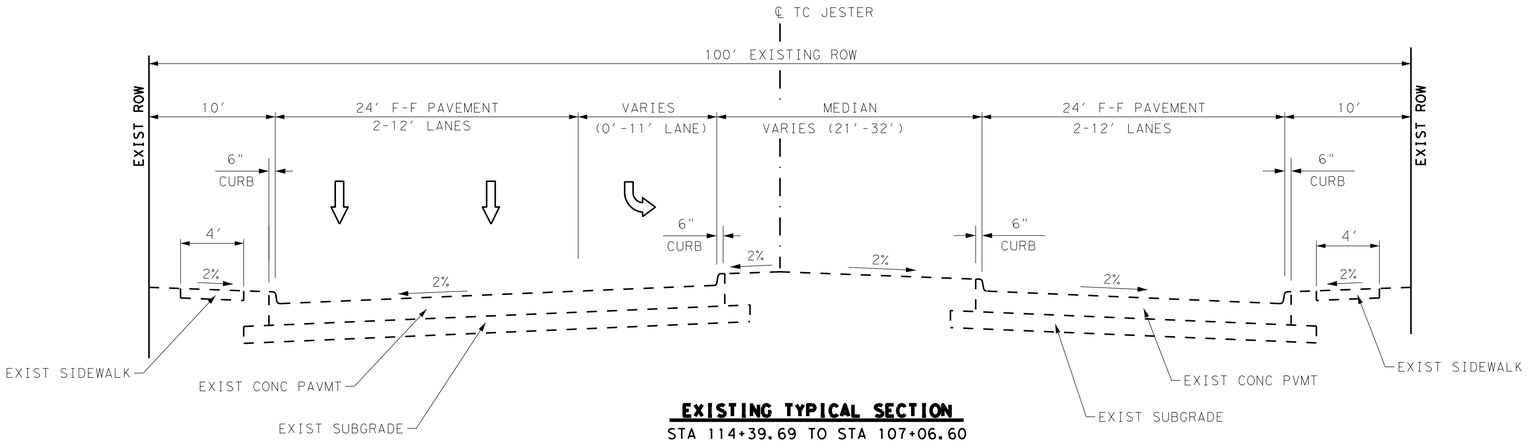
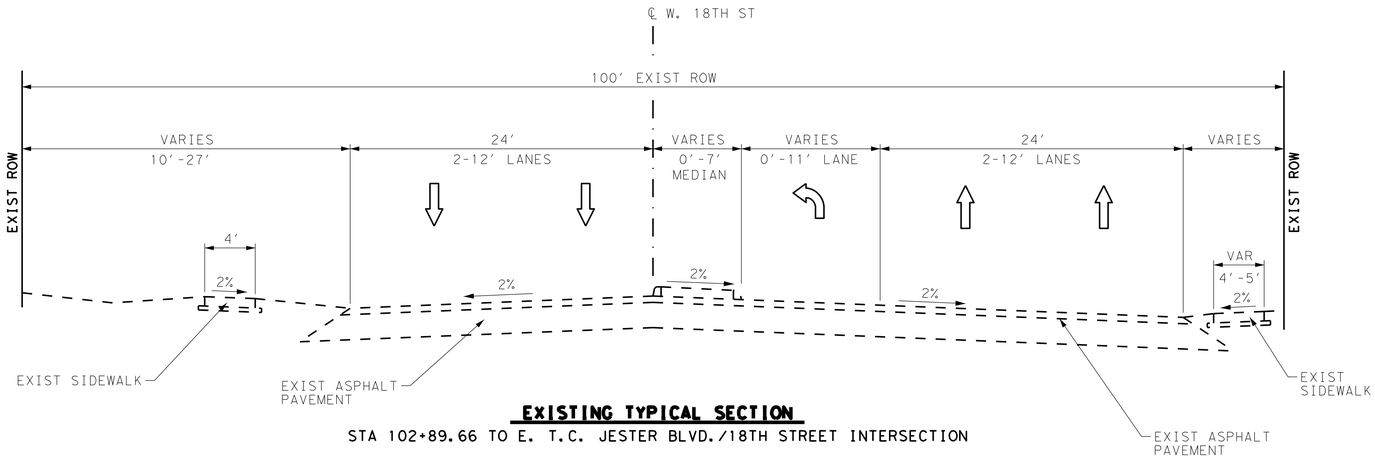


EXISTING TYPICAL SECTION

STA 114+39.69 TO STA 107+06.60



EXISTING TYPICAL SECTION

STA 102+89.66 TO E. T.C. JESTER BLVD./18TH STREET INTERSECTION

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15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591

TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

EXISTING
TYPICAL SECTIONS

SHEET 1 OF 4

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NTS	
CITY OF HOUSTON PM	
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SHEET NO. 122 OF 278	

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10/27/2025
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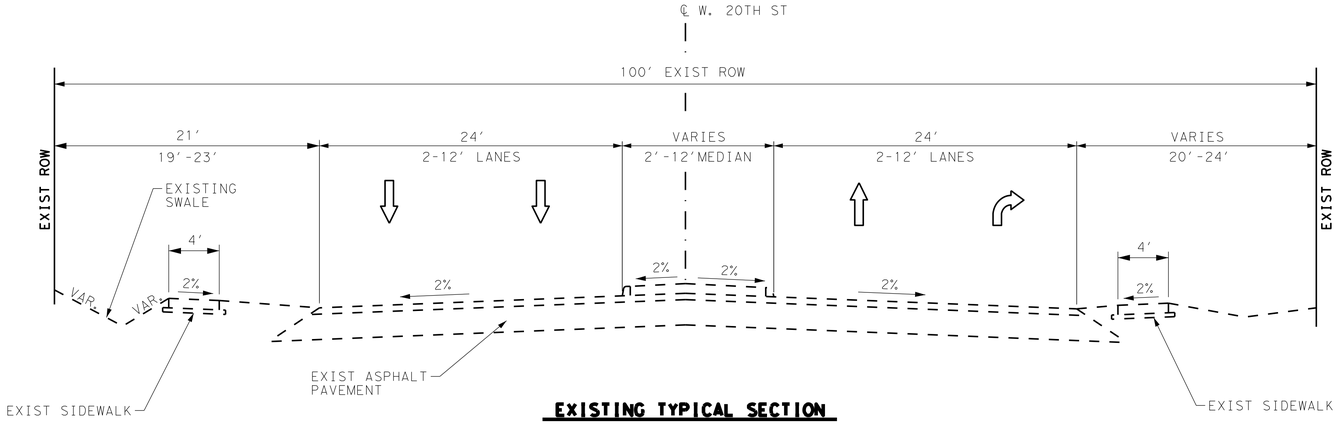
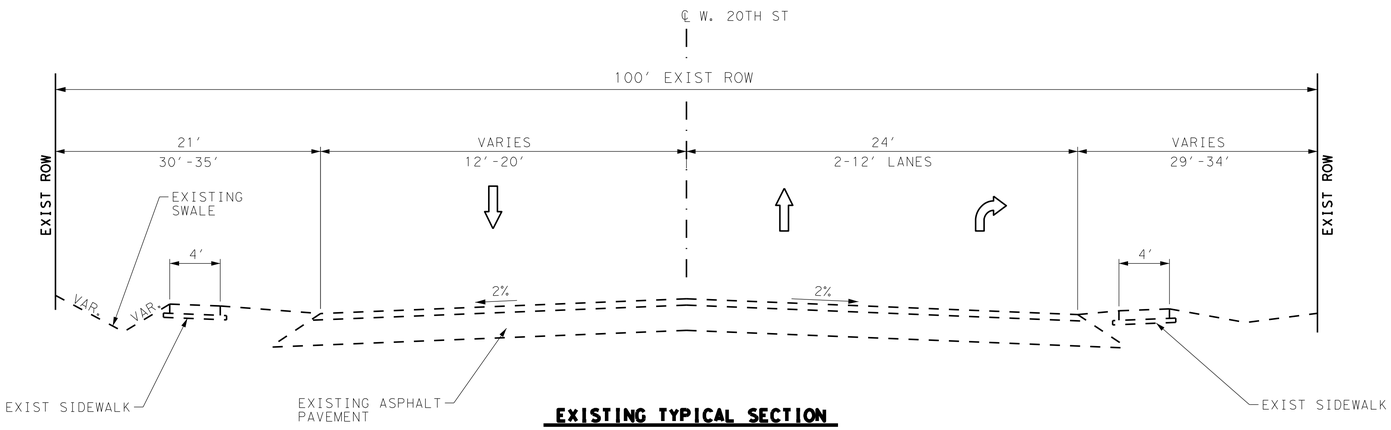


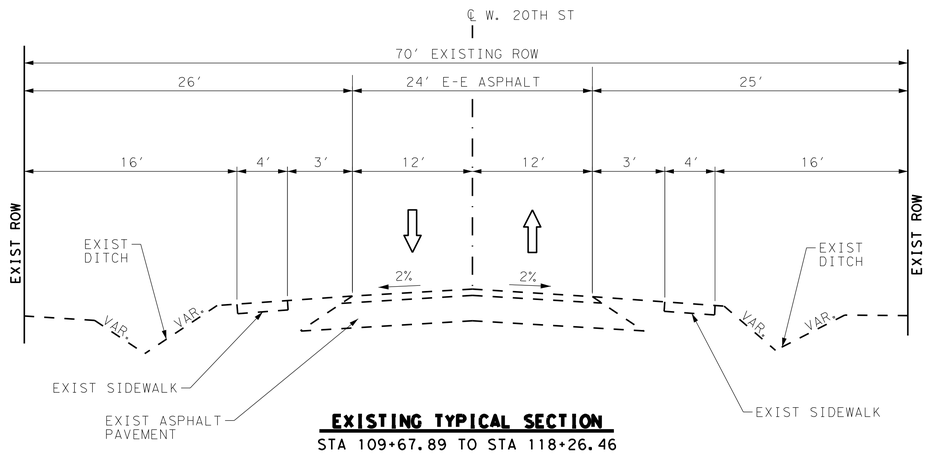
EXISTING TYPICAL SECTION

E. T.C. JESTER BLVD./20TH STREET INTERSECTION TO STA 107+55.97



EXISTING TYPICAL SECTION

STA 107+55.97 TO STA 109+67.89



EXISTING TYPICAL SECTION

STA 109+67.89 TO STA 118+26.46

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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

EXISTING
TYPICAL SECTIONS

SHEET 2 OF 4

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
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CITY OF HOUSTON PM	
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SHEET NO. 123 OF 278	

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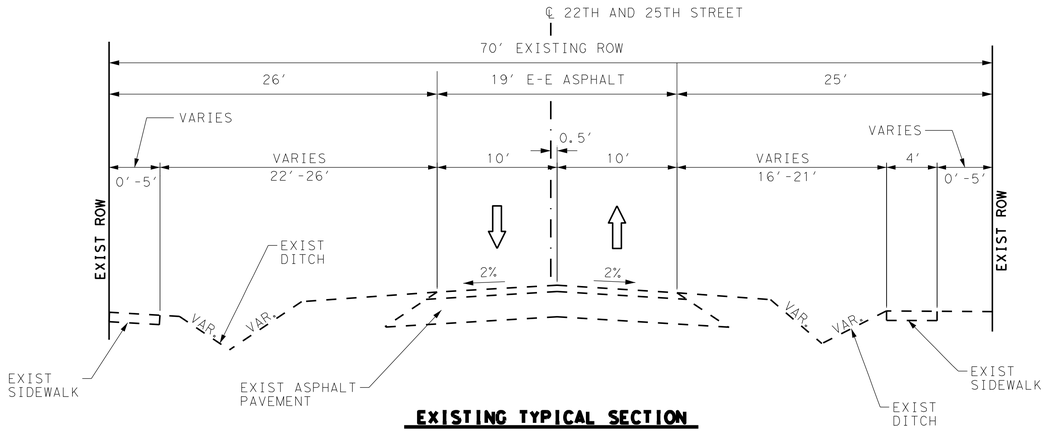
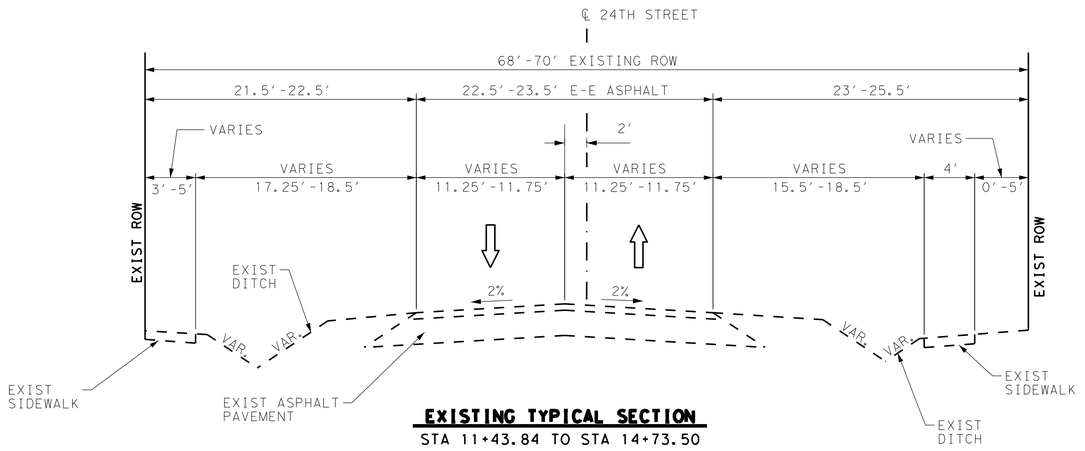


EXISTING TYPICAL SECTION

22TH STREET: STA 11+37.07 TO STA 14+78.49
25TH STREET: STA 11+43.84 TO STA 14+73.50



EXISTING TYPICAL SECTION

STA 11+43.84 TO STA 14+73.50

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

EXISTING
TYPICAL SECTIONS

SHEET 3 OF 4

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
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CITY OF HOUSTON PM	
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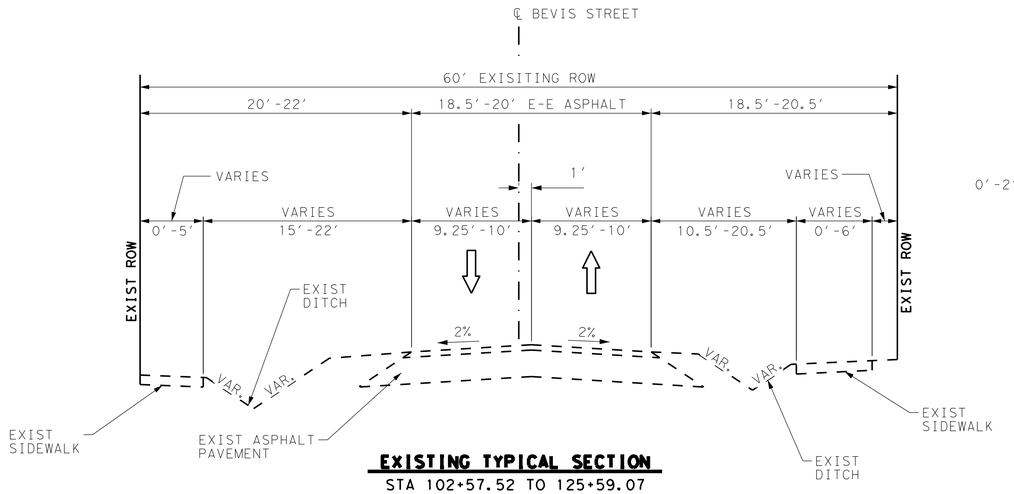

EXISTING TYPICAL SECTION

STA 102+57.52 TO 125+59.07

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HOUSTON PUBLIC WORKS

TURKEY GULLY

EXISTING
TYPICAL SECTIONS

SHEET 4 OF 4

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
NTS	
CITY OF HOUSTON PM	
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SHEET NO. 125 OF 278	

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10/27/2025
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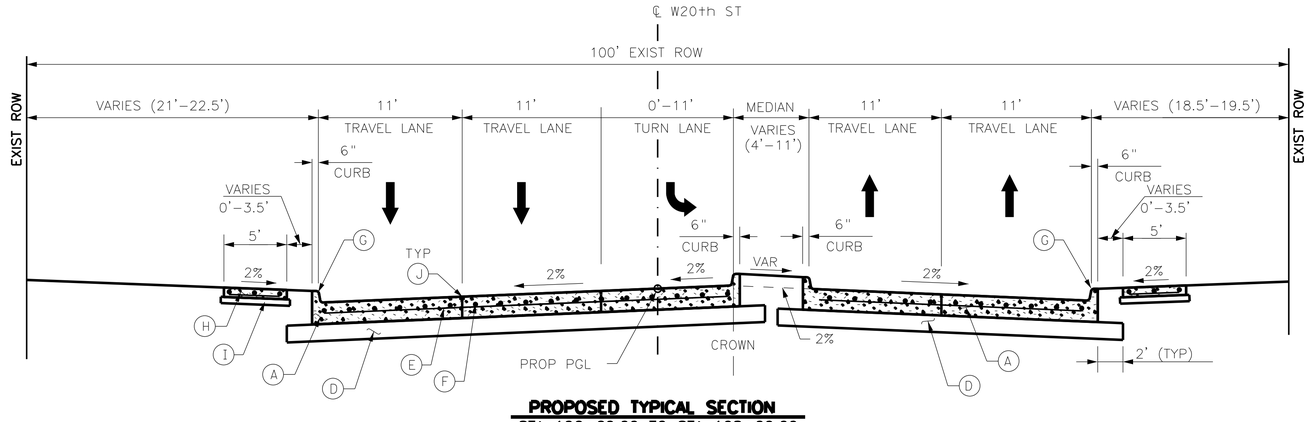
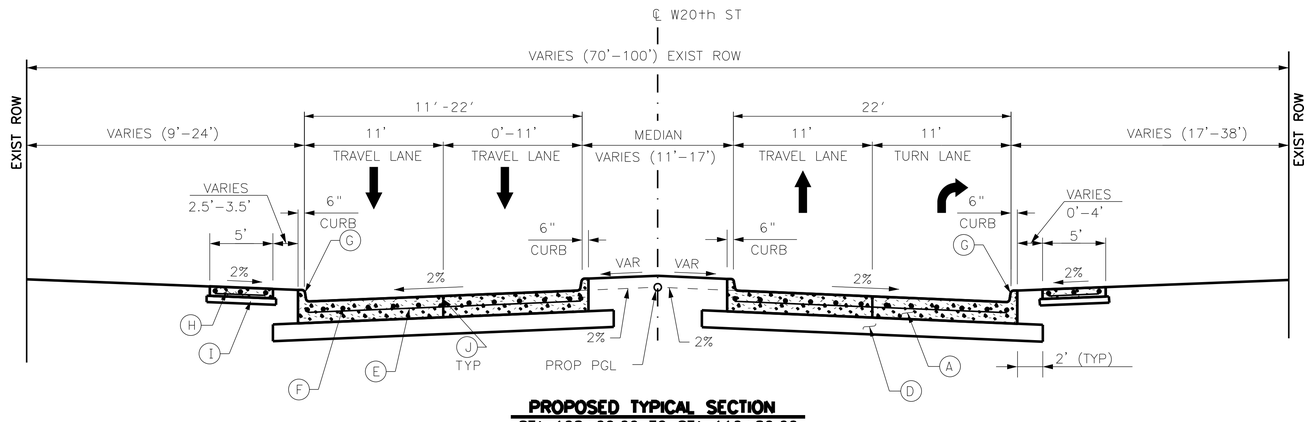
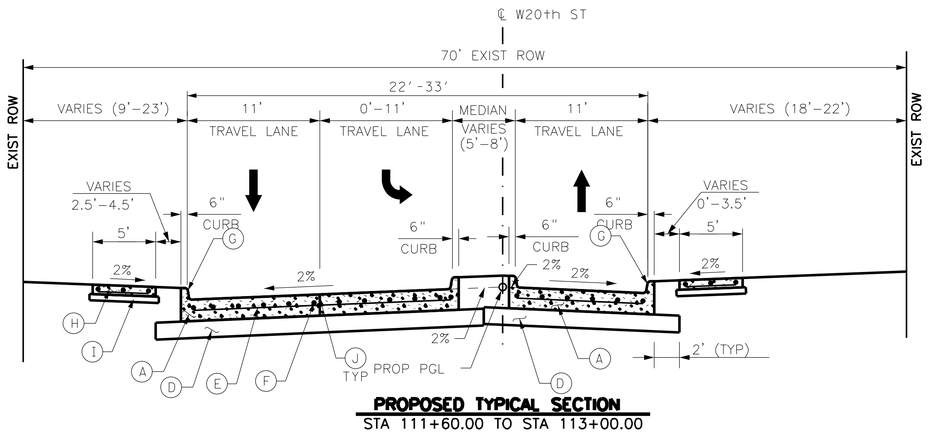


PROPOSED TYPICAL SECTION
STA 106+60.00 TO STA 108+00.00



PROPOSED TYPICAL SECTION
STA 108+00.00 TO STA 110+80.00



PROPOSED TYPICAL SECTION
STA 111+60.00 TO STA 113+00.00

LEGEND:

- (A) 11" CONC PVMT
- (B) 9" CONC PVMT
- (C) 2.5" HMAC SURFACE
- (D) 8" LIME TREATED SUBGRADE
- (E) TRAVERSING STEEL
- (F) LONGITUDINALSTEEL
- (G) 6" CONC CURB
- (H) 4.5" CONC SIDEWALK
- (I) 3" COMP. SAND BEDDING
- (J) CONSTRUCTION JOIN OR DEFORMED METAL STRIP
- (K) 6" HMAC BASE
- (L) 1.5" HMAC

NOTES:

1. ALL OPEN EARTHEN AREAS ARE USE OF SOD GRASS UNLESS OTHERWISE NOTED ON THE DRAWINGS.
2. REFER TO COH DWG NO: 02751-01 CONCRETE PAVEMENT DETAILS FOR LONGITUDINAL AND TRANSVERSE STEEL BAR SIZES.

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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
DRAINAGE AND PAVING
PROPOSED
TYPICAL SECTIONS

SHEET 1 OF 4

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-430100-0020-4	
DRAWING SCALE	
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SHEET NO. 126 OF 278	

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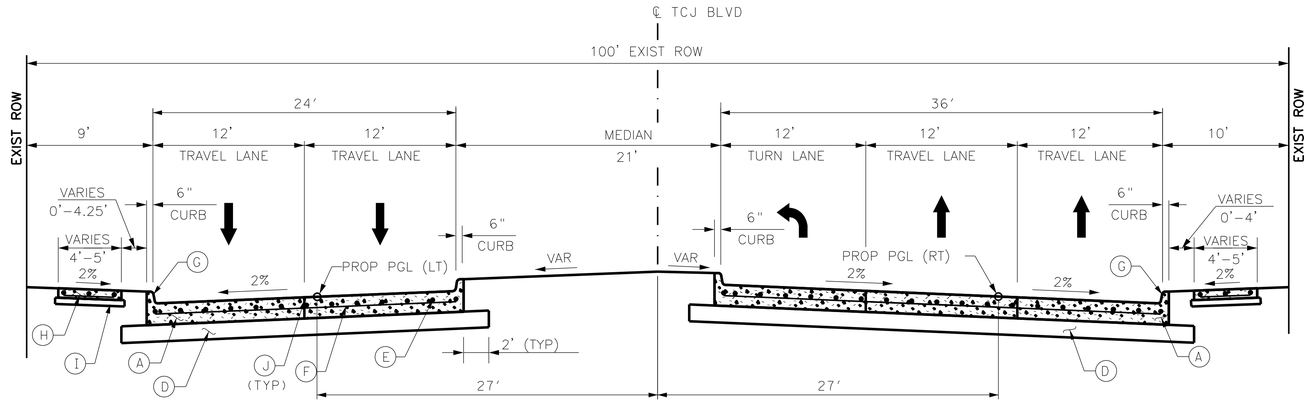
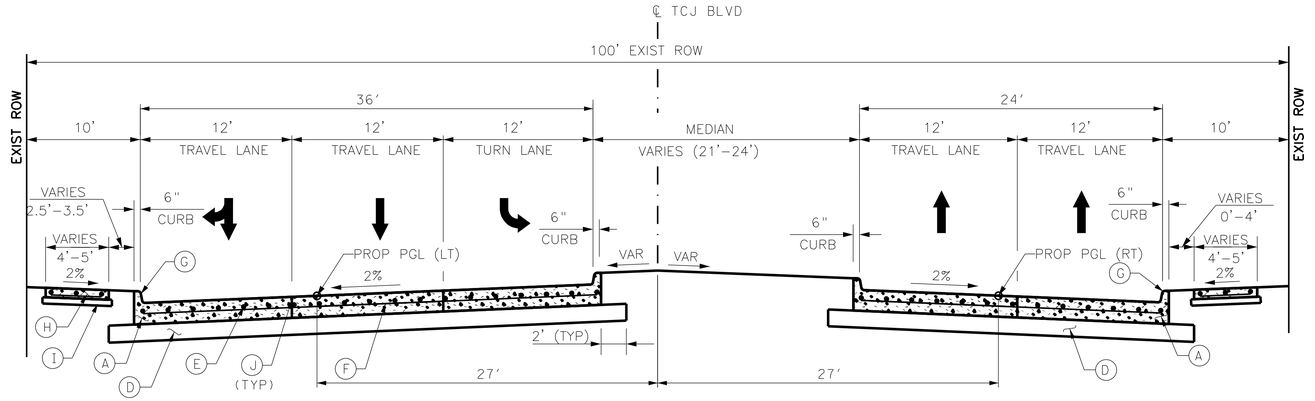
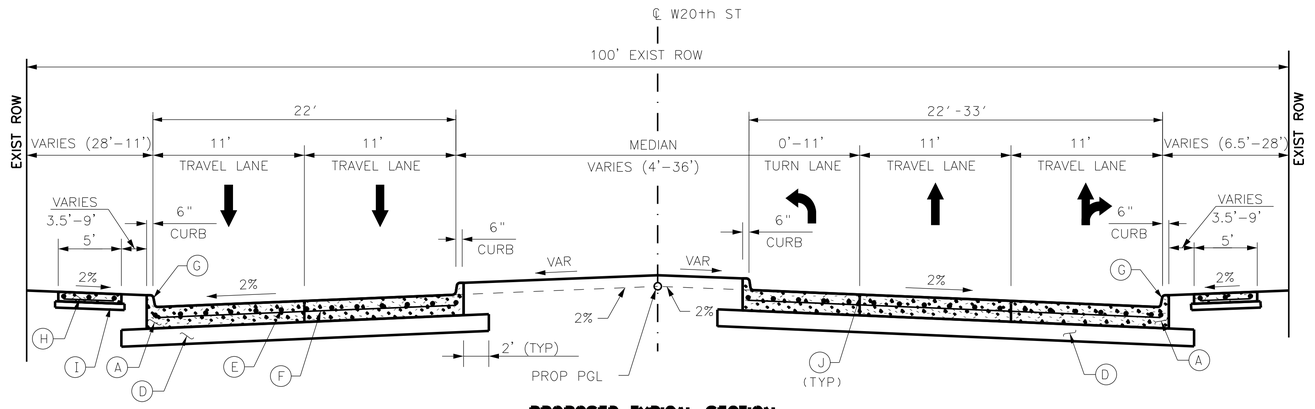


PROPOSED TYPICAL SECTION
STA 108+90.00 TO STA 109+80.00



PROPOSED TYPICAL SECTION
STA 111+20.00 TO STA 112+11.00



PROPOSED TYPICAL SECTION
STA 102+91.00 TO STA 105+10.00

LEGEND:

- (A) 11" CONC PVMT
- (B) 9" CONC PVMT
- (C) 2.5" HMAC SURFACE
- (D) 8" LIME TREATED SUBGRADE
- (E) TRAVERSING STEEL
- (F) LONGITUDINALSTEEL
- (G) 6" CONC CURB
- (H) 4.5" CONC SIDEWALK
- (I) 3" COMP. SAND BEDDING
- (J) CONSTRUCTION JOIN OR DEFORMED METAL STRIP
- (K) 6" HMAC BASE
- (L) 1.5" HMAC

NOTES:

1. ALL OPEN EARTHEN AREAS ARE USE OF SOD GRASS UNLESS OTHERWISE NOTED ON THE DRAWINGS.
2. REFER TO COH DWG NO: 02751-01 CONCRETE PAVEMENT DETAILS FOR LONGITUDINAL AND TRANSVERSE STEEL BAR SIZES.

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
DRAINAGE AND PAVING
PROPOSED
TYPICAL SECTIONS

SHEET 2 OF 4

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
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SHEET NO. 127 OF 278	

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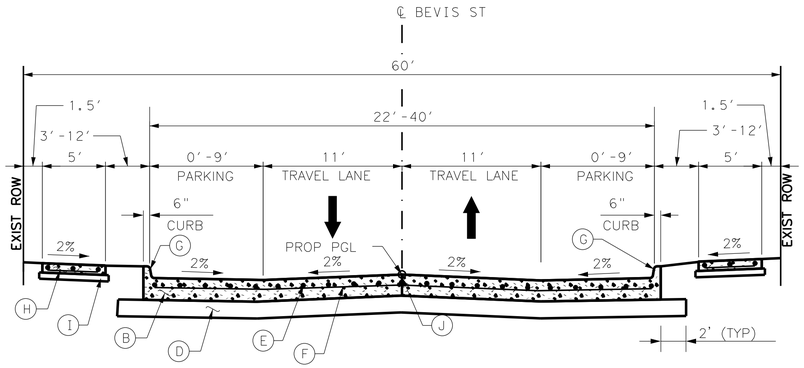

PROPOSED TYPICAL SECTION
SEE DESIGN PLANS FOR STATION LIMITS

LEGEND:

- (A) 11" CONC PVMT
- (B) 9" CONC PVMT
- (C) 2.5" HMAC SURFACE
- (D) 8" LIME TREATED SUBGRADE
- (E) TRAVERSING STEEL
- (F) LONGITUDINALSTEEL
- (G) 6" CONC CURB
- (H) 4.5" CONC SIDEWALK
- (I) 3" COMP. SAND BEDDING
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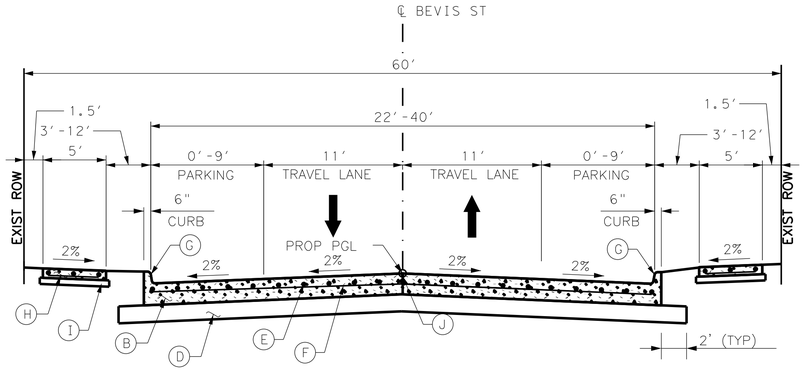
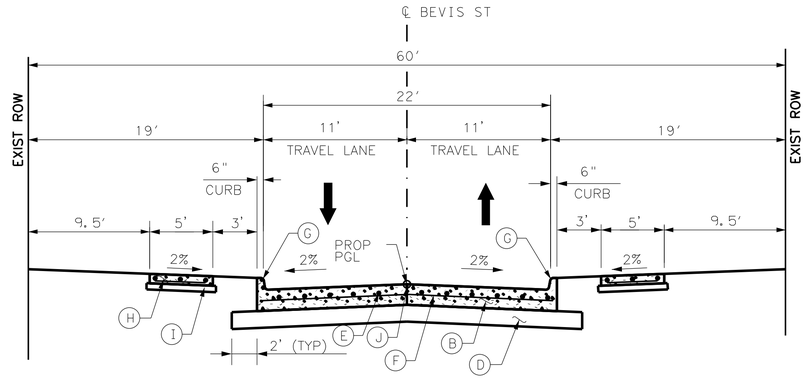


PROPOSED TYPICAL SECTION
SEE DESIGN PLANS FOR STATION LIMITS
FOR AREAS WITH INLETS LOCATED IN
PARKING TURNOUT PAVEMENT



PROPOSED TYPICAL SECTION
STA 102+55.00 TO STA 105+52.00
STA 113+55.00 TO STA 115+38.00
STA 117+24.00 TO STA 119+85.00

NOTES:

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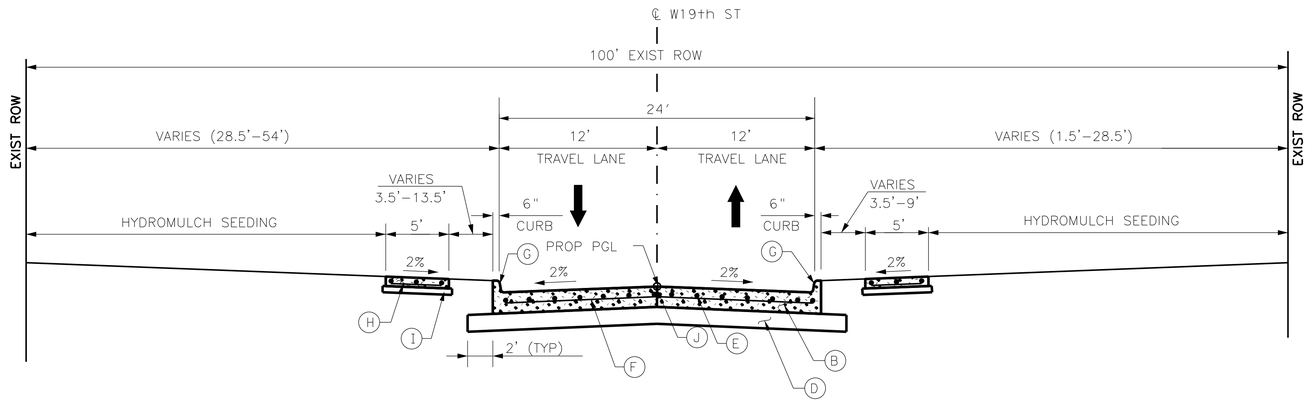
2. REFER TO COH DWG NO: 02751-01 CONCRETE PAVEMENT DETAILS FOR LONGITUDINAL AND TRANSVERSE STEEL BAR SIZES.



PROPOSED TYPICAL SECTION
STA 100+67.00 TO STA 102+57.00

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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
DRAINAGE AND PAVING
PROPOSED
TYPICAL SECTIONS

SHEET 3 OF 4

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
NTS	
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SHEET NO. **128** OF **278**	

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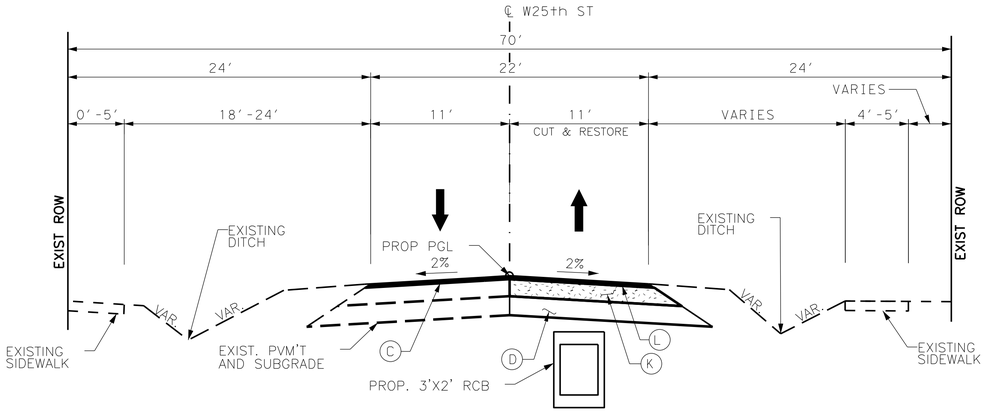
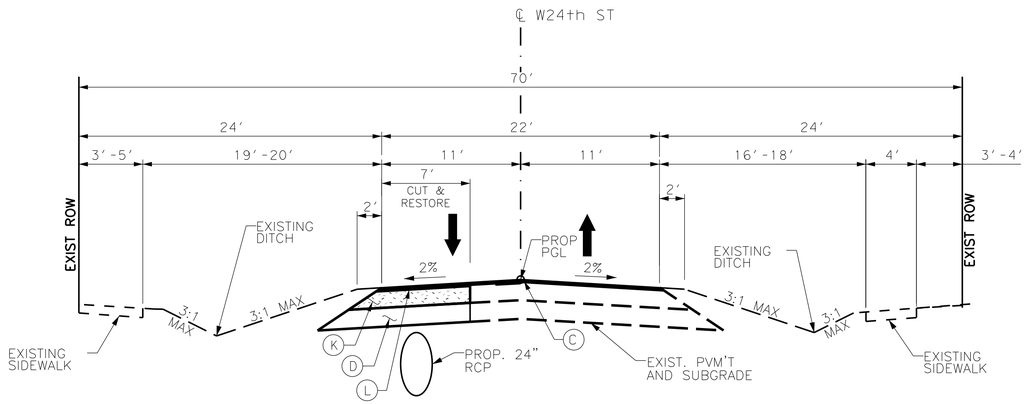
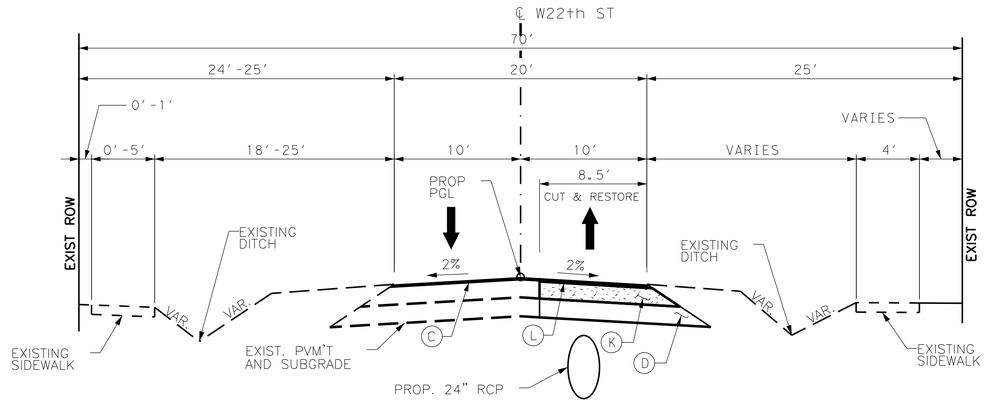


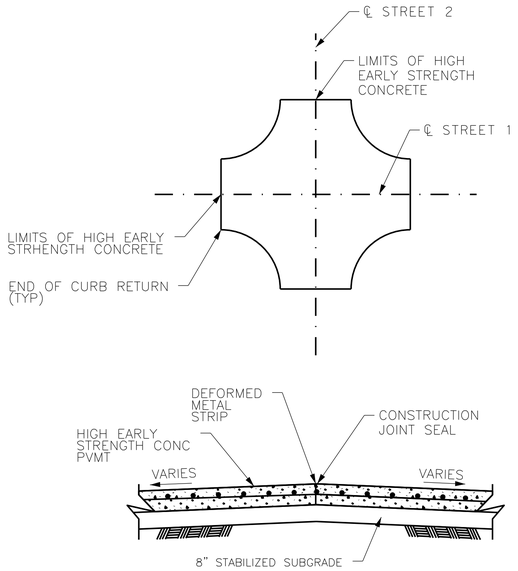
PROPOSED TYPICAL SECTION
STA 13+00.00 TO STA 15+05.00



PROPOSED TYPICAL SECTION
STA 12+90.00 TO STA 14+73.50



PROPOSED TYPICAL SECTION
STA 12+90.00 TO STA 14+79.00



TYPICAL ROADWAY HE'S CONCRETE SECTION AT INTERSECTIONS

LEGEND:

- (A) 11" CONC PVMT
- (B) 9" CONC PVMT
- (C) 2.5" HMAC SURFACE
- (D) 8" LIME TREATED SUBGRADE
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- (F) LONGITUDINALSTEEL
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- (I) 3" COMP. SAND BEDDING
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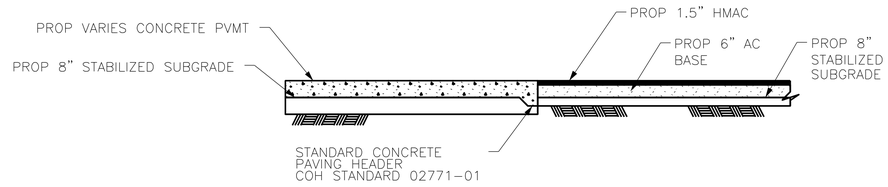

ASPHALT/CONCRETE PAVEMENT TRANSITION

NOTES:

1. ALL OPEN EARTHEN AREAS ARE USE OF SOD GRASS UNLESS OTHERWISE NOTED ON THE DRAWINGS.
2. REFER TO COH DWG NO: 02751-01 CONCRETE PAVEMENT DETAILS FOR LONGITUDINAL AND TRANSVERSE STEEL BAR SIZES.

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
DRAINAGE AND PAVING
PROPOSED
TYPICAL SECTIONS

SHEET 4 OF 4

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
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CITY OF HOUSTON PM	
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SHEET NO. 129 OF 278	

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PAVING, STORM, AND GENERAL KEY NOTES:

1. PROPOSED 11-INCH REINFORCED CONCRETE PAVEMENT WITH 8" LIME (6%) STABLIZED SUBGRADE AS DESCRIBED IN CITY OF HOUSTON STANDARD CONSTRUCTION DETAILS.
2. PROPOSED ASPHALT PAVEMENT. 1.5" ASPHALT CONCRETE SURFACE WITH 6" AC BASE AND 8" STABILIZED SUBGRADE. MATCH EXISTING CROSS SLOPE AT EXISTING PAVEMENT TIE-INS.
3. PROPOSED DRIVEWAY AS DESCRIBED IN STANDARD CITY OF HOUSTON CONSTRUCTION SPECIFICATIONS AND DETAILS (SEE "DRIVEWAY TABLE" FOR SPECIFIC DIMENSIONS AT EACH LOCATION). PROPOSED SAWCUT SHALL BE CONSIDERED INCIDENTAL TO INSTALLATION.
4. TEMPORARY CONSTRUCTION EASEMENT.
5. PROPOSED 6-INCH REINFORCED CONCRETE CURB.
6. PROPOSED 4.5" CONCRETE RIPRAP WITH 3" COMPACTED SAND BEDDING.
7. CONSTRUCT WHEELCHAIR RAMP AS DESCRIBED IN STANDARD CITY OF HOUSTON CONSTRUCTION SPECIFICATIONS AND DETAILS. APPLY CONSTRAST FINISH AS DESCRIBED THEREIN (MAINTAIN ADA AND TDLR REQUIREMENTS).
8. PROPOSED 5-WIDE 1-1/2" THICK CONCRETE SIDEWALK AS SHOWN PER DETAIL 02775-01.
9. TIE TO EXISTING SIDEWALK.
10. TAPER STANDARD 6-INCH CURB EXPOSURE TO 2-INCHES IN 2 FEET.
11. PROPOSED METRO BUS CONCRETE PAD.
12. INSTALL CONCRETE PAVEMENT TERMINUS AT APPROACH SLAB, SEE MISC PAVEMENT DETAIL.
13. INSTALL STANDARD CONCRETE PAVEMENT HEADER AS DIRECTED BY THE ENGINEER (PROPOSED SAWCUT SHALL BE INCIDENTAL).
14. INSTALL CONCRETE PAVEMENT TERMINUS AT HOT MIX TRANSITION.
15. REMOVE AND OVERLAY EXISTING ASPHALT SURFACE (2.5"). OVERLAY SECTION CONSISTS OF 2.5" HOT MIX ASPHALT CONCRETE (TYPE "D").
16. ADJUST EXISTING MANHOLE TOP (COVER & FRAME) TO PROPOSED GRADE BASED UPON NEW ROADWAY ALIGNMENT (REPLACEMENT OF ALL MISSING OR DAMAGED MANHOLE LID COVERS AND RECONNECTIONS OF DROPS SHALL BE CONSIDERED INCIDENTAL).
17. REGRADE EXISTING DITCH AS NECESSARY TOWARDS NEW PIPE AND RING GRATE OR TYPE "E" INLET AS DIRECTED BY THE ENGINEER. MAINTAIN 0.1 FEET/100 FEET MINIMUM SLOPE TO DRAIN. DITCH SHALL BE LOCATED 0.5 FEET BELOW EDGE OF PAVEMENT OR EXISTING NATURAL GROUND AT R.O.W. WHICHEVER IS LOWER.
18. REMOVE AND RELOCATE EXISTING STREET LIGHT POLE ASSEMBLY INCLUDING CONDUIT AND RECONNECTION (BY OTHERS).
19. REMOVE EXISTING SMALL SIGN & SIGN ASSEMBLY.
20. REMOVE AND RELOCATE EXISTING POWER POLE/GUY (BY OTHERS).
21. REMOVE AND DISPOSE OF EXISTING STRUCTURE AS DIRECTED BY ENGINEER.
22. CAUTION: EXISTING GAS FACILITIES IN AREA. GAS FACILITIES SHOWN IN THE DRAWING ARE FOR CONTRACTOR INFORMATION ONLY. CONTRACTOR TO FIELD VERIFY AND COORDINATE WITH CENTERPOINT ENERGY ON LOCATIONS OF ACTIVE GAS LINES. CRITICAL LOCATE. SEE COH SPEC 02317.
23. PROPOSED 9-INCH REINFORCED CONCRETE PAVEMENT WITH 8" LIME (6%) STABLIZED SUBGRADE AS DESCRIBED IN CITY OF HOUSTON STANDARD CONSTRUCTION DETAILS.

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Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
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TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

KEY NOTES

SHEET 1 OF 1

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NTS	
CITY OF HOUSTON PM	
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SHEET NO. 130 OF 278	

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10/23/2025
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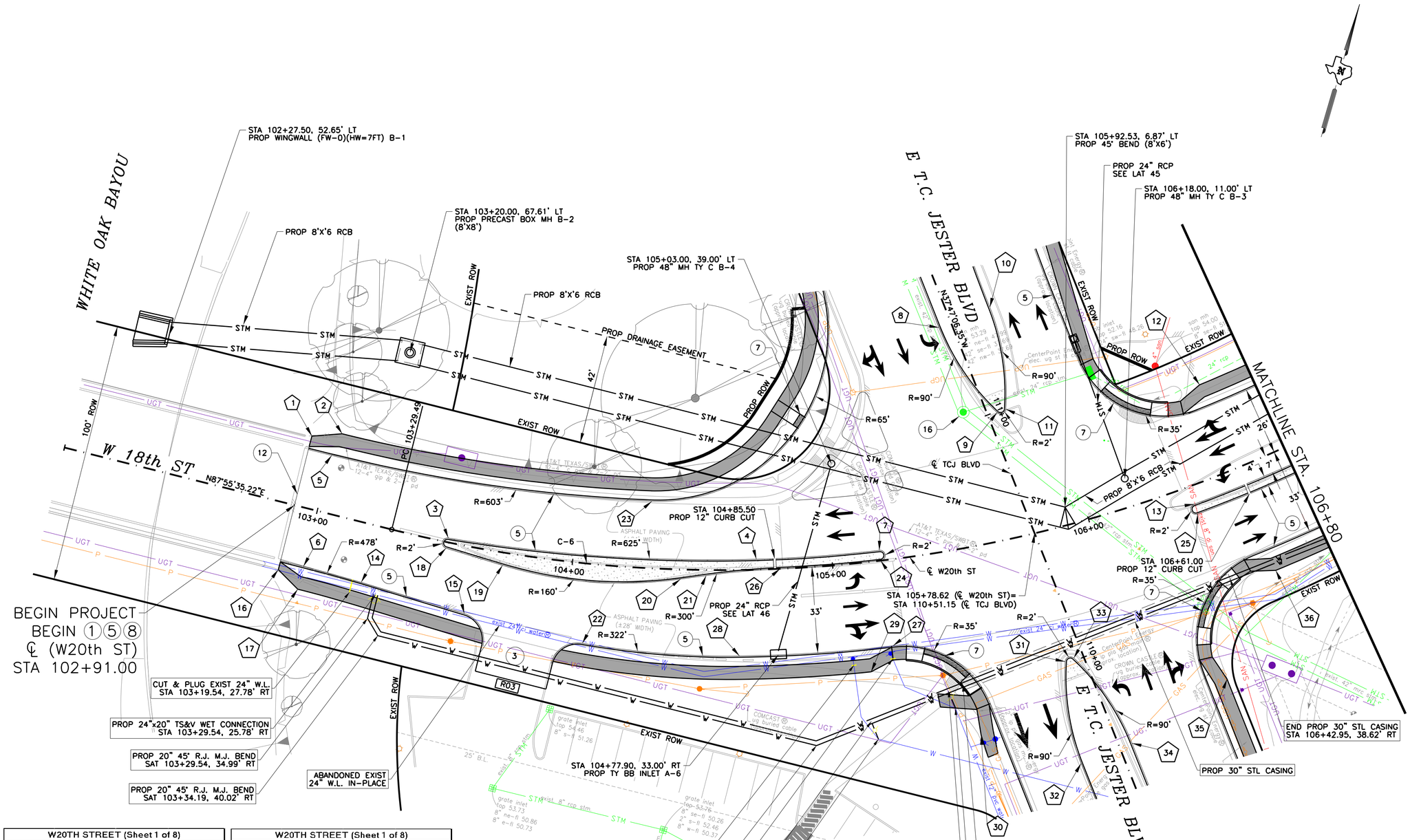
TURKEY-KEY-NOTES.dgn



##

W20TH STREET (Sheet 1 of 8)			
POINT NO	ALIGNMENT	STATION	OFFSET
1	W20th	102+91.00	27.18' LT
2	W20th	103+02.10	31.00' LT
3	W20th	103+51.41	1.63' LT
4	W20th	104+70.79	4.00' LT
5	W20th	103+00.23	22.00' LT
6	W20th	103+00.00	22.00' LT
7	W20th	105+18.53	4.00' LT
8	TCJ	111+38.15	5.00' LT
9	TCJ	110+99.56	3.69' RT
10	TCJ	111+38.15	16.00' RT
11	TCJ	110+99.56	7.31' RT
12	W20th	106+59.12	35.00' LT
13	W20th	106+40.06	7.00' RT
14	W20th	103+23.03	22.56' RT
15	W20th	103+62.68	25.66' RT
16	W20th	102+91.00	25.54' RT
17	W20th	103+00.00	31.00' RT
18	W20th	103+51.31	2.36' RT
19	W20th	103+73.67	4.88' RT
20	W20th	104+41.76	3.68' RT

W20TH STREET (Sheet 1 of 8)			
POINT NO	ALIGNMENT	STATION	OFFSET
21	W20th	104+51.42	2.13' RT
22	W20th	104+06.80	30.82' RT
23	W20th	104+29.19	25.71' LT
24	W20th	105+18.53	0.00'
25	W20th	106+40.06	11.00' RT
26	W20th	104+79.77	0.00'
27	W20th	105+19.38	33.00' LT
28	W20th	104+63.79	33.00' RT
29	W20th	105+10.53	42.00' RT
30	TCJ	109+86.67	47.00' LT
31	TCJ	110+01.07	7.31' LT
32	TCJ	109+62.48	16.00' LT
33	TCJ	110+01.07	3.69' LT
34	TCJ	109+62.48	5.00' RT
35	TCJ	109+71.88	48.00' RT
36	W20th	106+59.16	42.00' RT

LEGEND:

- ## — DRIVEWAY NUMBER (SEE DRIVEWAY TABLE SHEETS FOR MORE INFORMATION)
- (##) — GENERAL CONSTRUCTION AND UTILITY NOTES (SEE SHEETS NO.4-6 FOR MORE INFORMATION)
- 5' PROP CONCRETE SIDEWALK
- PROP ASPHALT PAVEMENT
- 4.5" PROP CONCRETE RIPRAP

NOTES:

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6. REFER TO PROPOSED PLAN AND PROFILE SHEETS (NO.131-157) FOR SANITARY SERVICE LOCATIONS IN ACCORDANCE WITH COH STD SPEC SECTION 02534.
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VERIFICATION OF PRIVATE UTILITY LINES

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Signature valid for six months.

Date

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0' 20' 40'
SCALE IN FEET

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TBPE FIRM REGISTRATION NO. F-6825

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
W 20TH ST
PLAN
BEGIN TO STA 106+80

SHEET 1 OF 8

WBS NUMBER	M-410291-0001-4
DRAWING SCALE	1"=20'
CITY OF HOUSTON PM	
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SHEET NO.	131 OF 278

FOR CITY OF HOUSTON USE ONLY

10/26/2025
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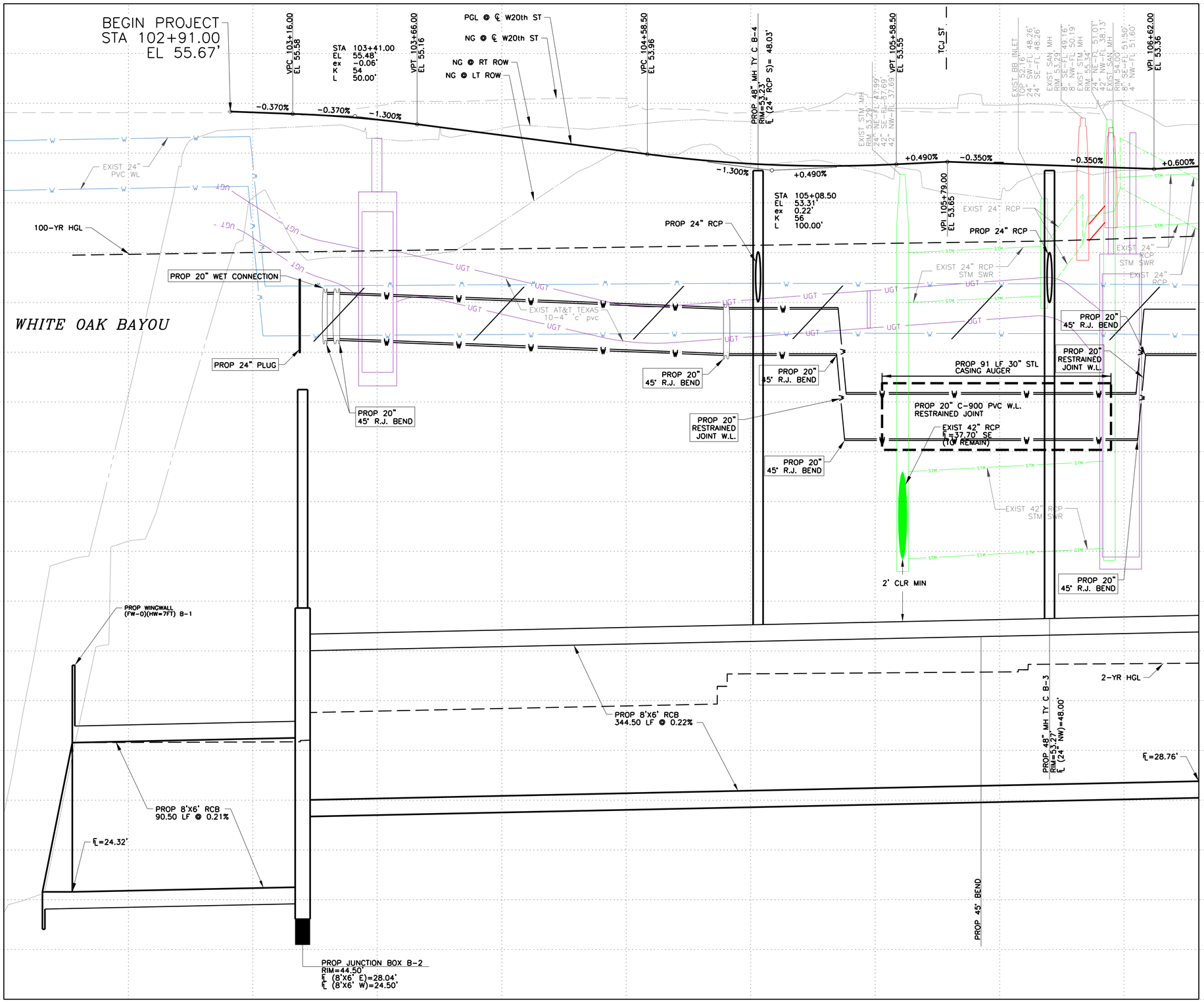

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HORZ 0' 20' 40'
VERT 0' 2' 4'
SCALE IN FEET

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HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

W 20TH ST

PROFILE
BEGIN TO STA 106+80

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=20' (H) ; 1"=2' (V)	
CITY OF HOUSTON PM	
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SHEET NO. 132 OF 278	

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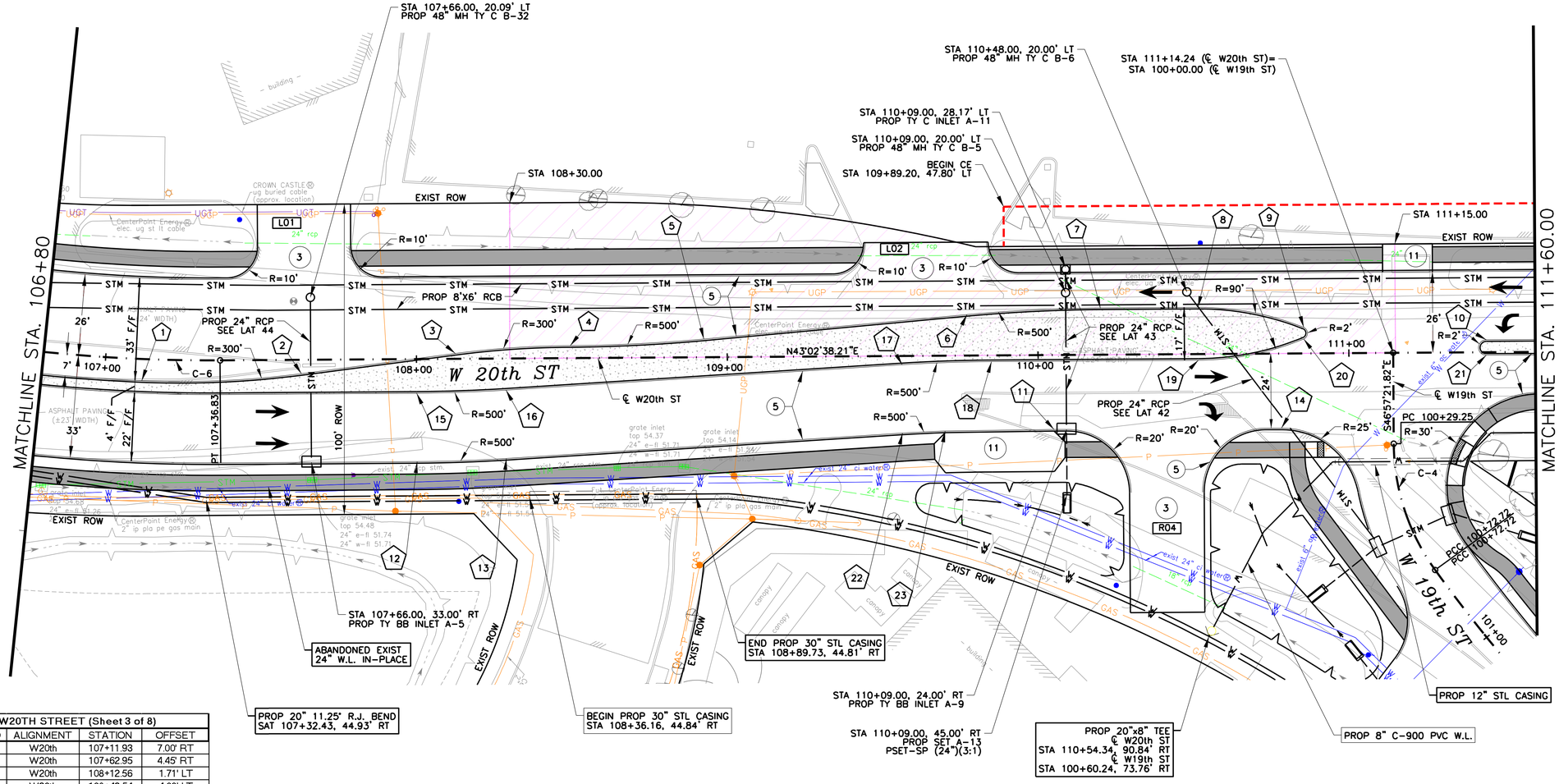
W20th ST PROFILE 1.dgn

POTENTIAL PETROLEUM CONTAMINATED AREA



W20TH STREET (Sheet 3 of 8)			
POINT NO	ALIGNMENT	STATION	OFFSET
1	W20th	107+11.93	7.00' RT
2	W20th	107+62.95	4.45' RT
3	W20th	108+12.56	1.71' LT
4	W20th	108+49.54	4.00' LT
5	W20th	108+92.50	5.85' LT
6	W20th	109+77.18	13.15' LT
7	W20th	110+20.14	15.00' LT
8	W20th	110+51.55	15.00' LT
9	W20th	110+85.50	8.35' LT
10	W20th	111+44.24	4.00' LT
11	W20th	110+05.00	24.00' RT
12	W20th	108+00.00	33.00' RT
13	W20th	108+28.73	32.17' RT
14	W20th	110+78.16	24.00' RT
15	W20th	108+00.00	11.00' RT
16	W20th	108+28.76	10.17' RT
17	W20th	109+56.24	2.83' RT
18	W20th	109+85.00	2.00' RT
19	W20th	110+51.55	2.00' RT
20	W20th	110+85.50	4.65' LT
21	W20th	111+44.24	1.00' RT
22	W20th	109+56.21	24.83' RT
23	W20th	109+69.99	24.23' RT

LEGEND:

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Date

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0' 20' 40'
SCALE IN FEET

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Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

W 20TH ST

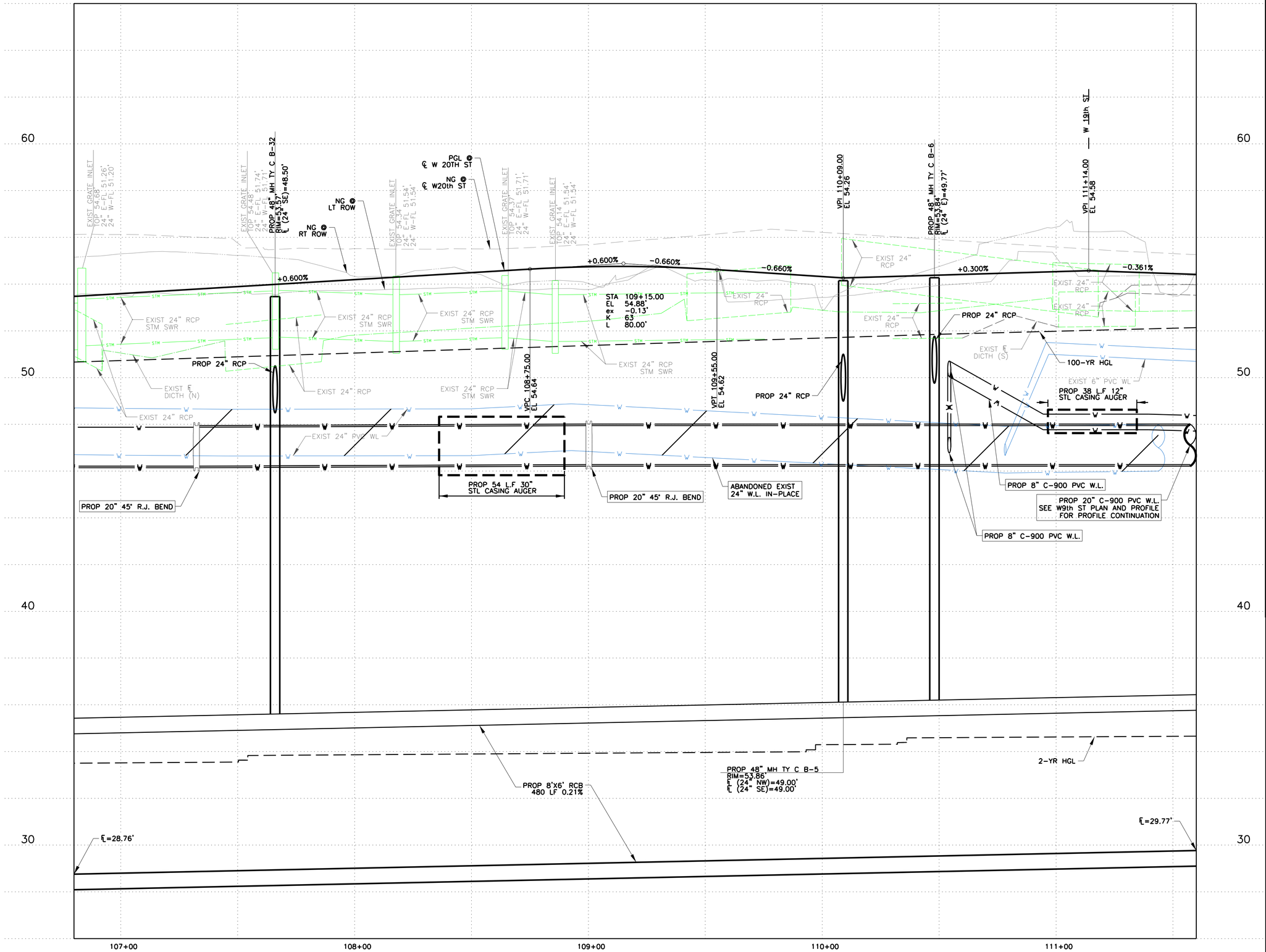
PLAN
STA 106+80 TO STA 111+60

SHEET 3 OF 8

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=20'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 133 OF 278	

10/26/2025
...\Sheet W20th ST PLAN 2.dgn

W20th ST PLAN 2.dgn



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HORZ 0' 20' 40'
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

W 20TH ST

PROFILE

STA 106+80 TO STA 111+60

SHEET 4 OF 8

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
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CITY OF HOUSTON PM	
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SHEET NO. 134 OF 278	

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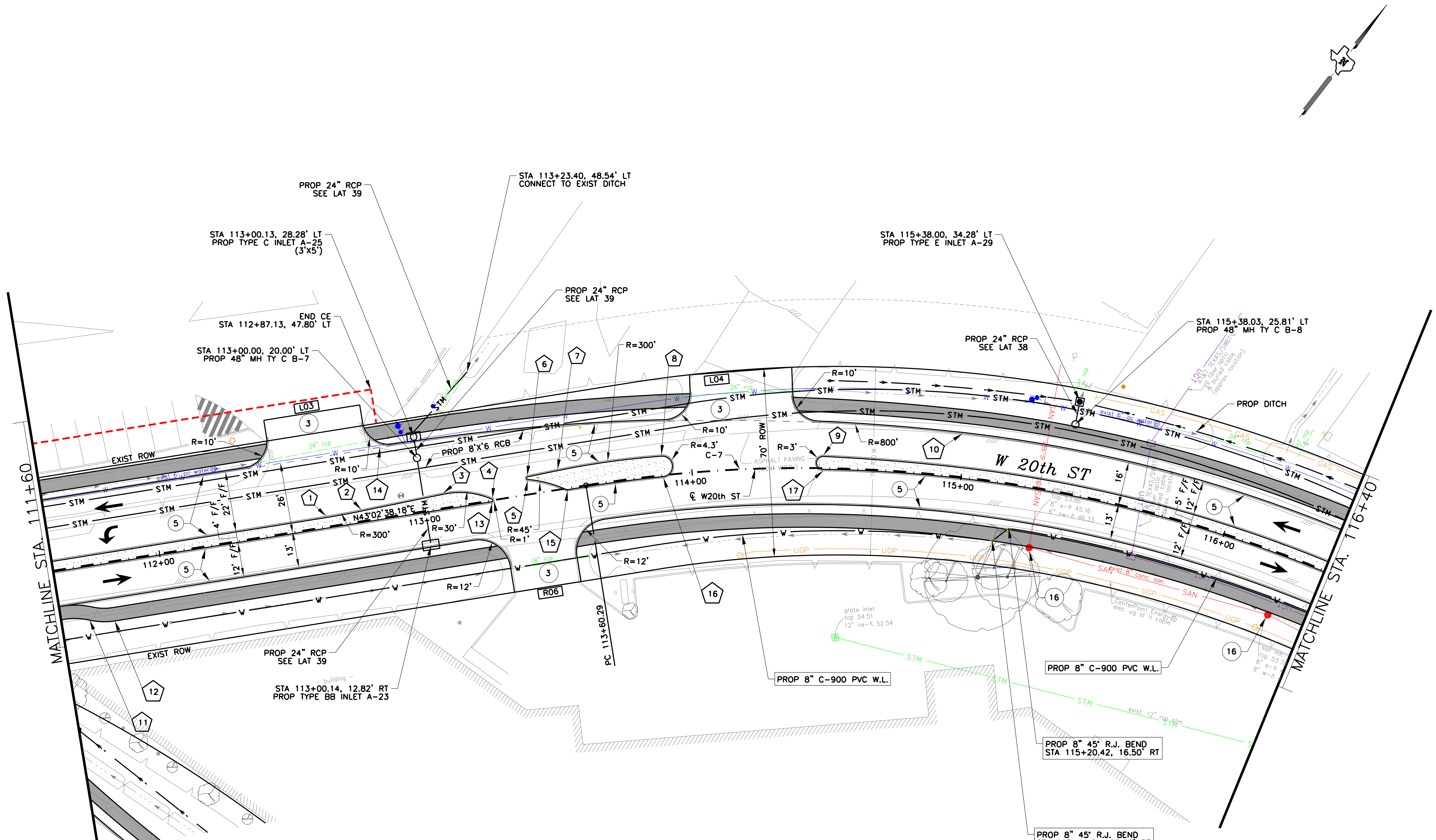
W20th ST PROFILE 2.dgn



W20TH STREET (Sheet 5 of 8)			
POINT NO	ALIGNMENT	STATION	OFFSET
1	W20th ST	112+63.31	4.00' LT
2	W20th ST	112+76.52	4.29' LT
3	W20th ST	113+07.67	5.67' LT
4	W20th ST	113+25.36	0.84' LT
5	W20th ST	113+39.20	5.10' LT
6	W20th ST	113+39.41	7.06' LT
7	W20th ST	113+50.91	7.57' LT
8	W20th ST	113+89.33	7.61' LT
9	W20th ST	114+48.76	4.85' LT
10	W20th ST	114+98.63	16.00' LT
11	W20th ST	111+70.50	20.25' RT
12	W20th ST	111+79.69	22.00' RT
13	W20th ST	113+24.81	1.00' RT
14	W20th ST	112+87.01	26.00' LT
15	W20th ST	113+53.19	1.00' RT
16	W20th ST	113+89.21	1.00' RT
17	W20th ST	114+48.66	1.00' RT

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CITY OF HOUSTON
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TURKEY GULLY
W 20TH ST
PLAN
STA 111+60 TO STA 116+40

SHEET 5 OF 8

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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1"=20'	
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LOI MA	
SHEET NO. 135 OF 278	

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10/26/2025
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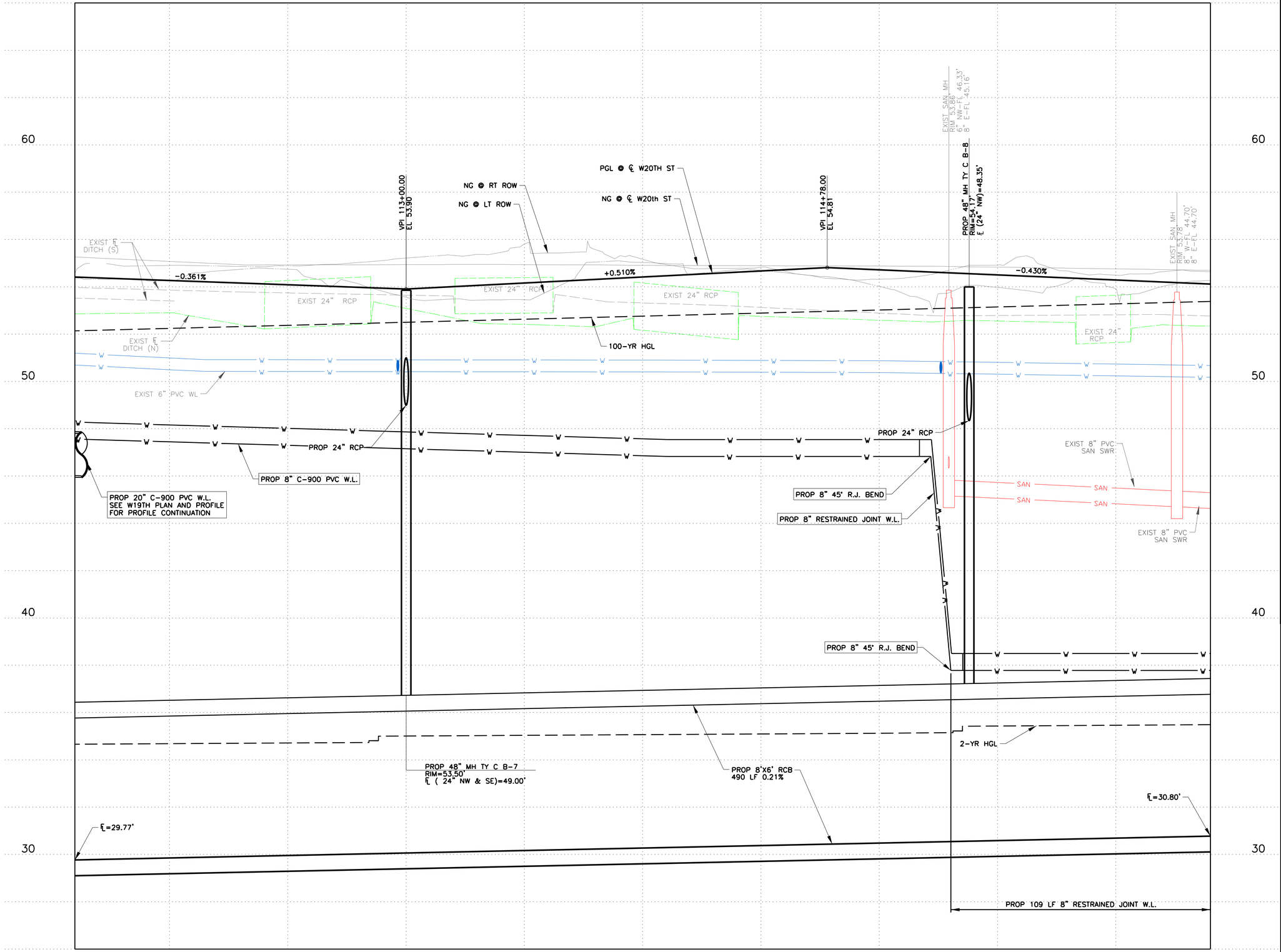
W20th ST PLAN 3.dgn



LEGEND:

- ## — DRIVEWAY NUMBER (SEE DRIVEWAY TABLE SHEETS FOR MORE INFORMATION)
- (##) — GENERAL CONSTRUCTION AND UTILITY NOTES (SEE SHEETS NO.4–6 FOR MORE INFORMATION)
- 5' PROP CONCRETE SIDEWALK
- PROP ASPHALT PAVEMENT
- 4.5" PROP CONCRETE RIPRAP

NOTES:

1. FOR HORIZONTAL ALIGNMENT DATA, SEE HORIZONTAL ALIGNMENT DATA SHEETS. (NO.10–12).
2. CURB INLETS AND PAVEMENT CALLOUTS ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.
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VERIFICATION OF PRIVATE UTILITY LINES

Date

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Signature valid for six months.

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HORZ 0' 20' 40'
VERT 0' 2' 4'
SCALE IN FEET

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591

TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
W 20TH ST
PROFILE
STA 111+60 TO STA 116+40

SHEET 6 OF 8

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=20'(H) ; 1"=2'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 136 OF 278	

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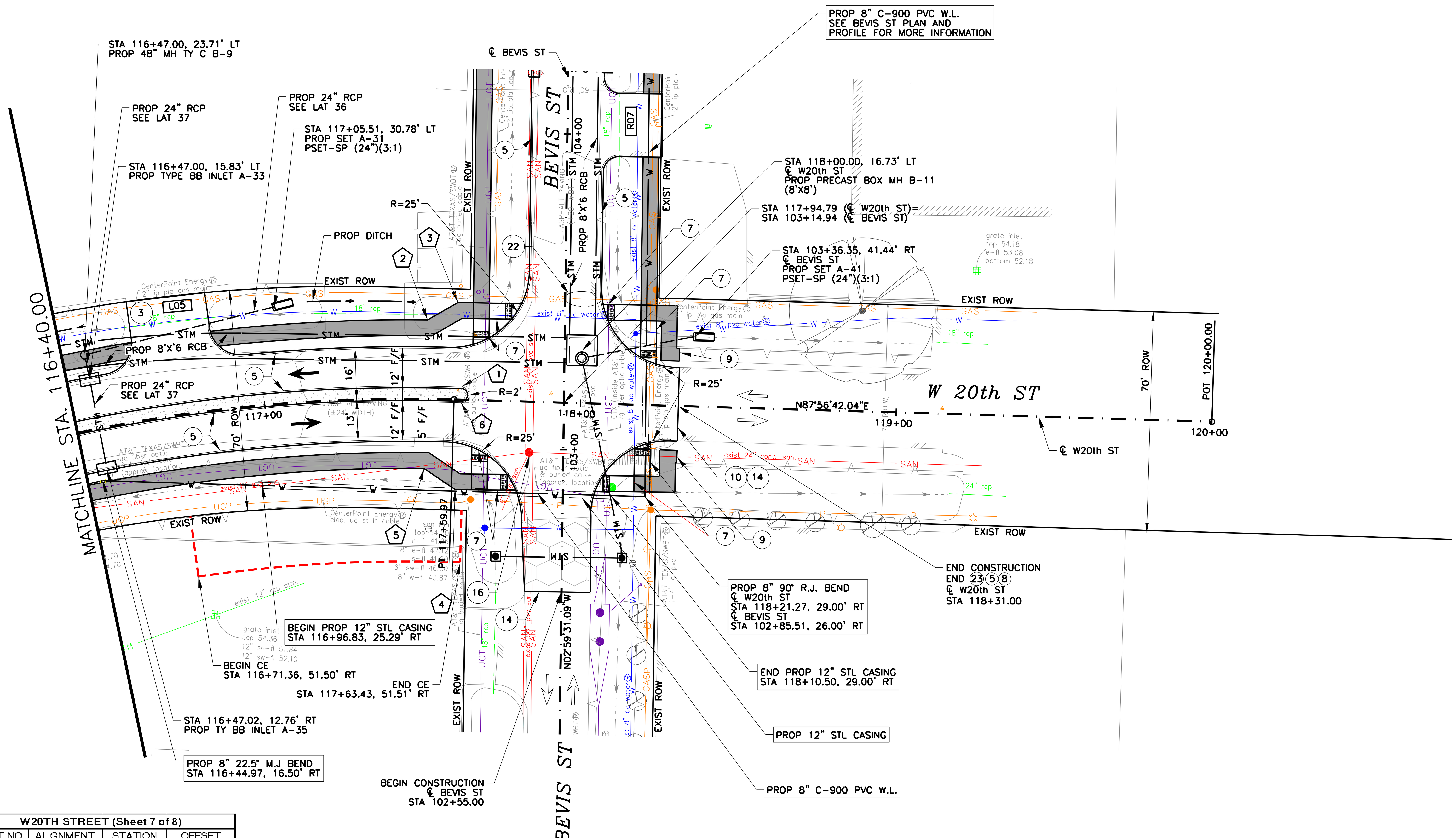
10/26/2025
...\Sheet\W20th ST PROFILE 3.dgn

W20th ST PROFILE 3.dgn



W20TH STREET (Sheet 7 of 8)			
POINT NO	ALIGNMENT	STATION	OFFSET
1	W20th ST	117+62.22	4.00' LT
2	W20th ST	117+51.30	25.00' LT
3	W20th ST	117+60.28	30.67' LT
4	W20th ST	117+61.16	28.51' RT
5	W20th ST	117+50.70	22.00' RT
6	W20th ST	11762.21	1.00' RT

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SCALE IN FEET

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
W 20TH ST
PLAN
STA 116+40 TO END

SHEET 7 OF 8

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=20'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 137 OF 278	

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10/26/2025
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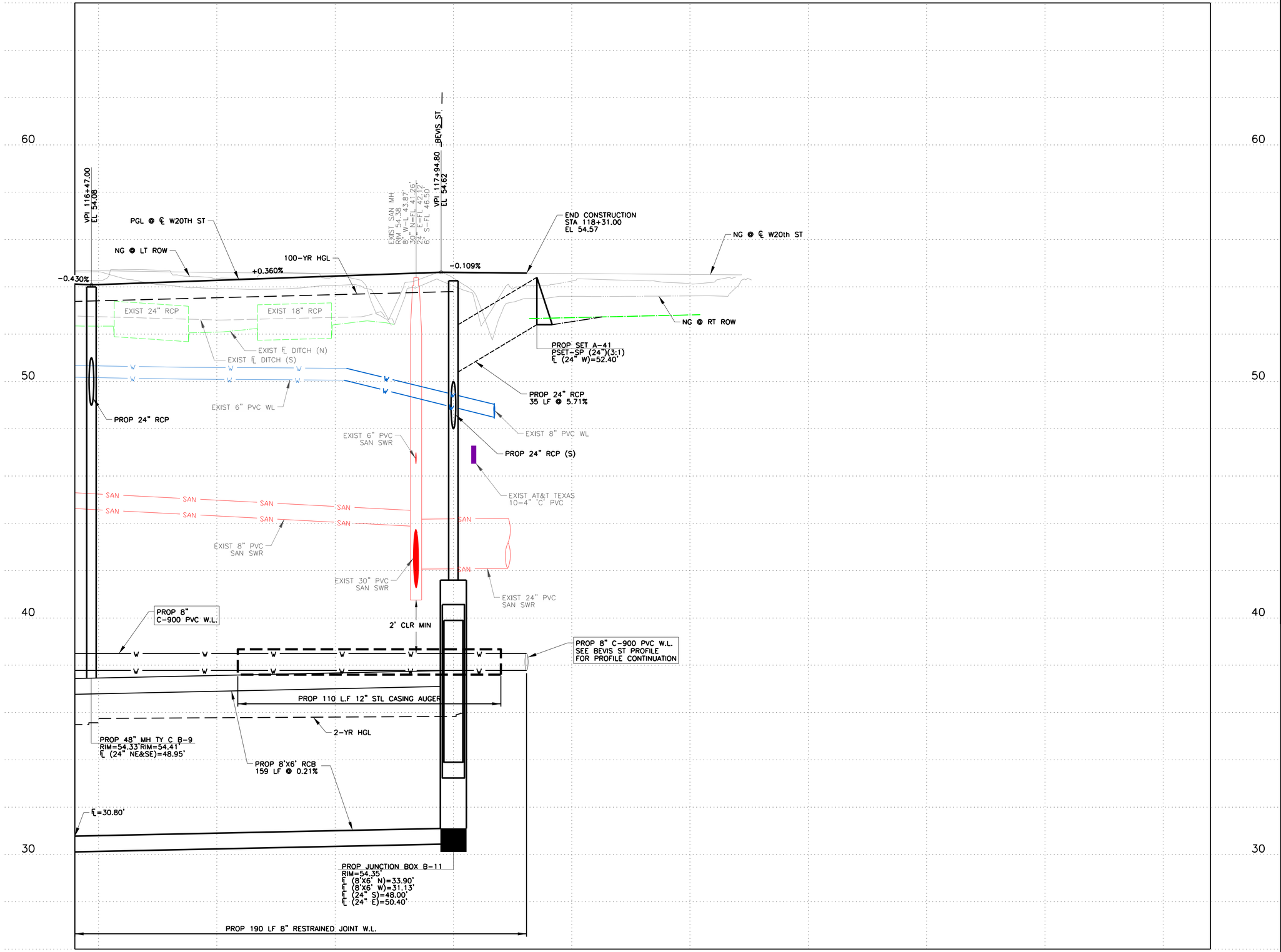
W20th ST PLAN 4.dgn



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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
W 20TH ST
PROFILE
STA 116+40 TO END

SHEET 8 OF 8

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=20' (H) ; 1"=2' (V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 138 OF 278	

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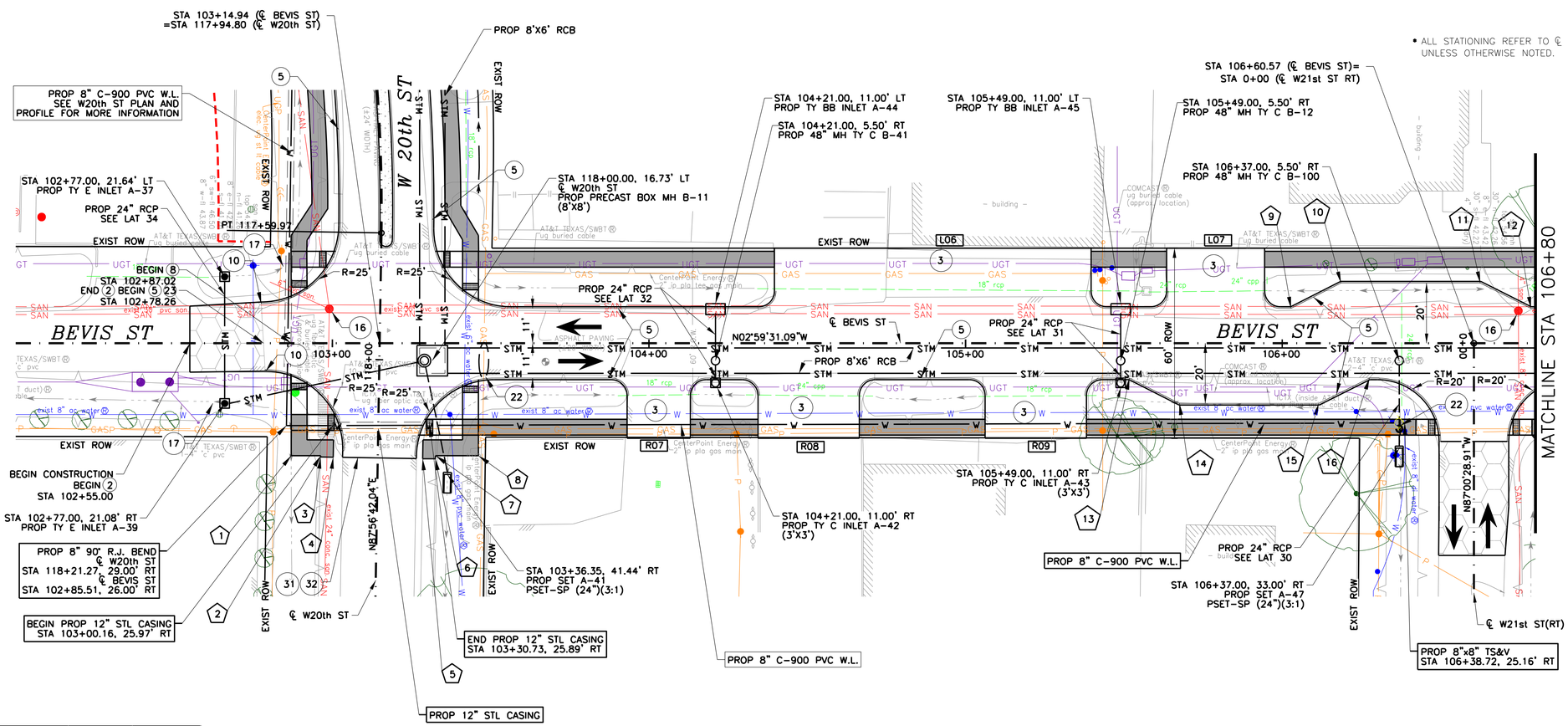
10/26/2025
Sheet:W20th ST PROFILE 4.dgn
W20th ST PROFILE 4.dgn



(##)

BEVIS STREET (Sheet 1 of 9)			
POINT NO	ALIGNMENT	STATION	OFFSET
1	Bevis	102+87.02	35.50' RT
2	Bevis	102+96.31	35.50' RT
3	Bevis	102+96.31	35.91' RT
4	Bevis	103+00.30	35.98' RT
5	Bevis	103+28.54	36.44' RT
6	Bevis	103+32.54	36.44' RT
7	Bevis	103+32.56	35.50' RT
8	Bevis	103+46.17	35.50' RT
9	Bevis	106+02.79	11.00' LT
10	Bevis	106+18.58	20.00' LT
11	Bevis	106+62.58	20.00' LT
12	Bevis	106+78.58	11.00' LT
13	Bevis	105+51.77	11.00' RT
14	Bevis	105+67.57	20.00' RT
15	Bevis	106+11.57	20.00' RT
16	Bevis	106+27.57	11.00' RT

LEGEND:

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0' 20' 40'
SCALE IN FEET

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(713) 541-5591
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SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

BEVIS ST

PLAN
BEGIN TO STA 106+80

SHEET 1 OF 9

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=20'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 139 OF 278	

10/27/2025
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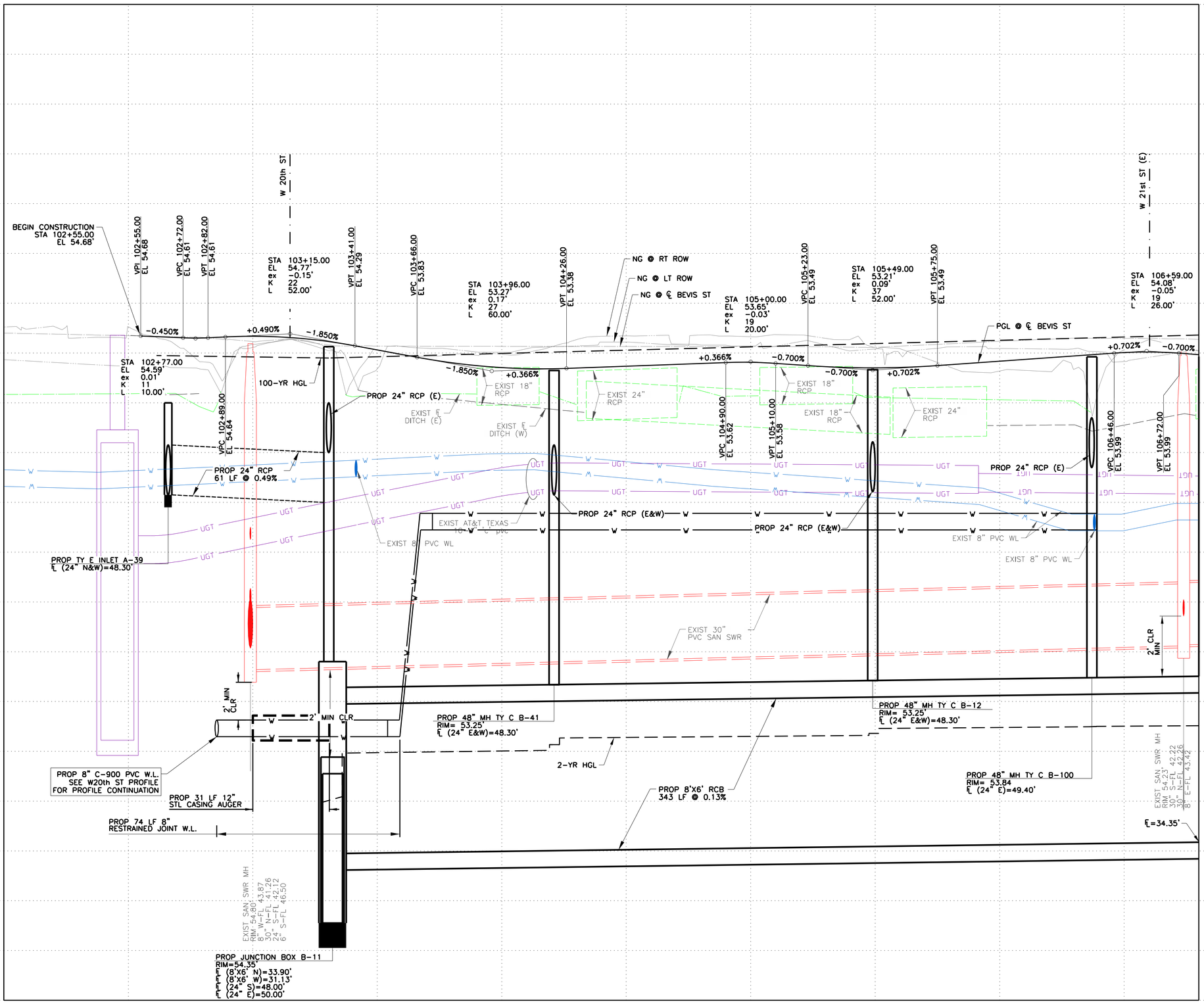
BEVIS ST PLAN 1.dgn



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HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
BEVIS ST
PROFILE
BEGIN TO STA 106+80

SHEET 2 OF 9

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=20' (H) ; 1"=2' (V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 140 OF 278	

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10/26/2025
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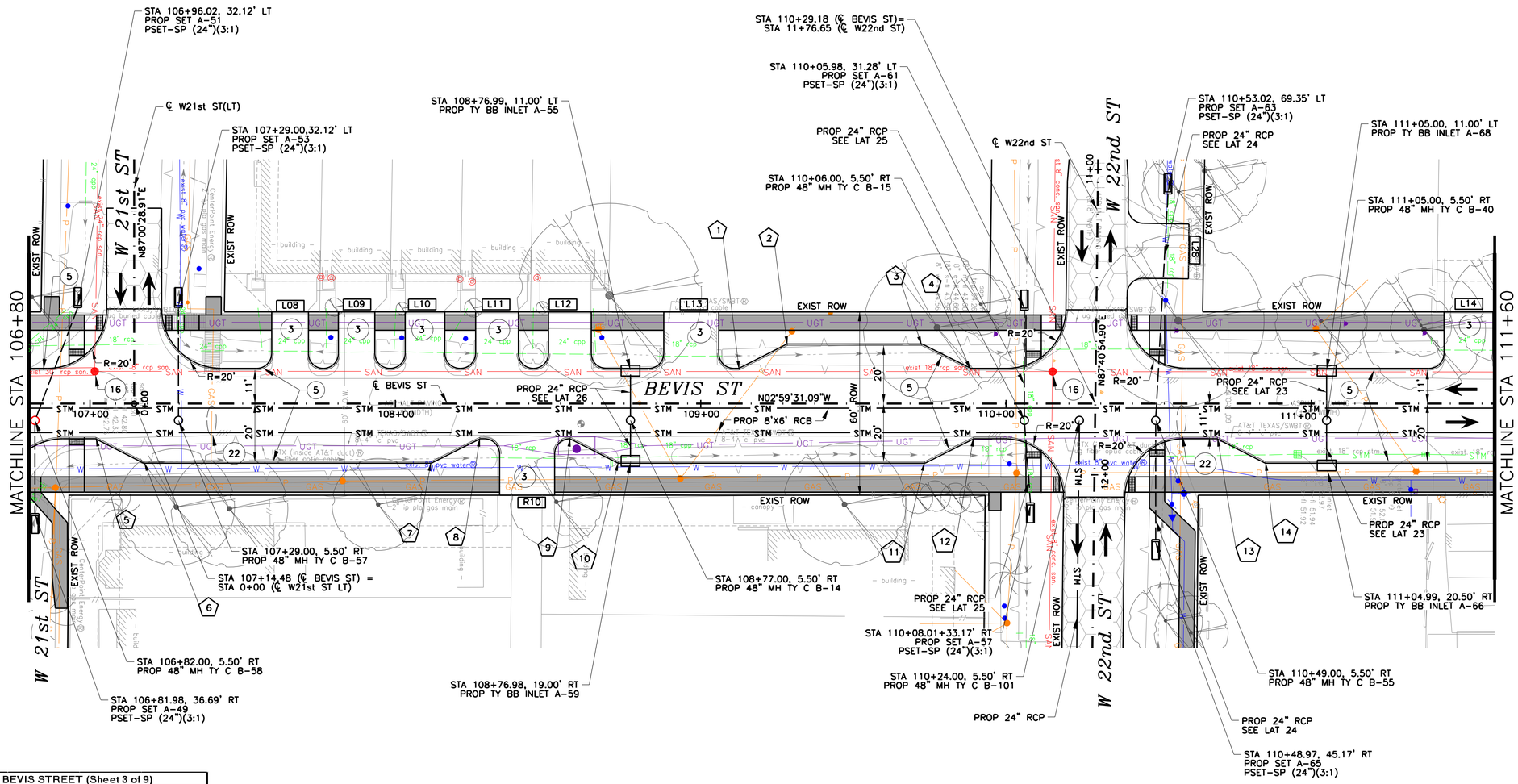

BEVIS STREET (Sheet 3 of 9)			
POINT NO	ALIGNMENT	STATION	OFFSET
1	Bevis	109+12.59	11.00' LT
2	Bevis	109+28.38	20.00' LT
3	Bevis	109+72.38	20.00' LT
4	Bevis	109+86.38	11.00' LT
5	Bevis	107+01.90	11.00' RT
6	Bevis	107+17.69	20.00' RT
7	Bevis	108+11.68	20.00' RT
8	Bevis	108+27.68	11.00' RT
9	Bevis	108+57.27	11.00' RT
10	Bevis	108+73.05	20.00' RT
11	Bevis	109+73.37	20.00' RT
12	Bevis	109+89.37	11.00' RT
13	Bevis	110+69.18	11.00' RT
14	Bevis	110+84.97	20.00' RT

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

BEVIS ST

PLAN

STA 106+80 TO STA 111+60

SHEET 3 OF 9

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=20'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 141 OF 278	

10/27/2025
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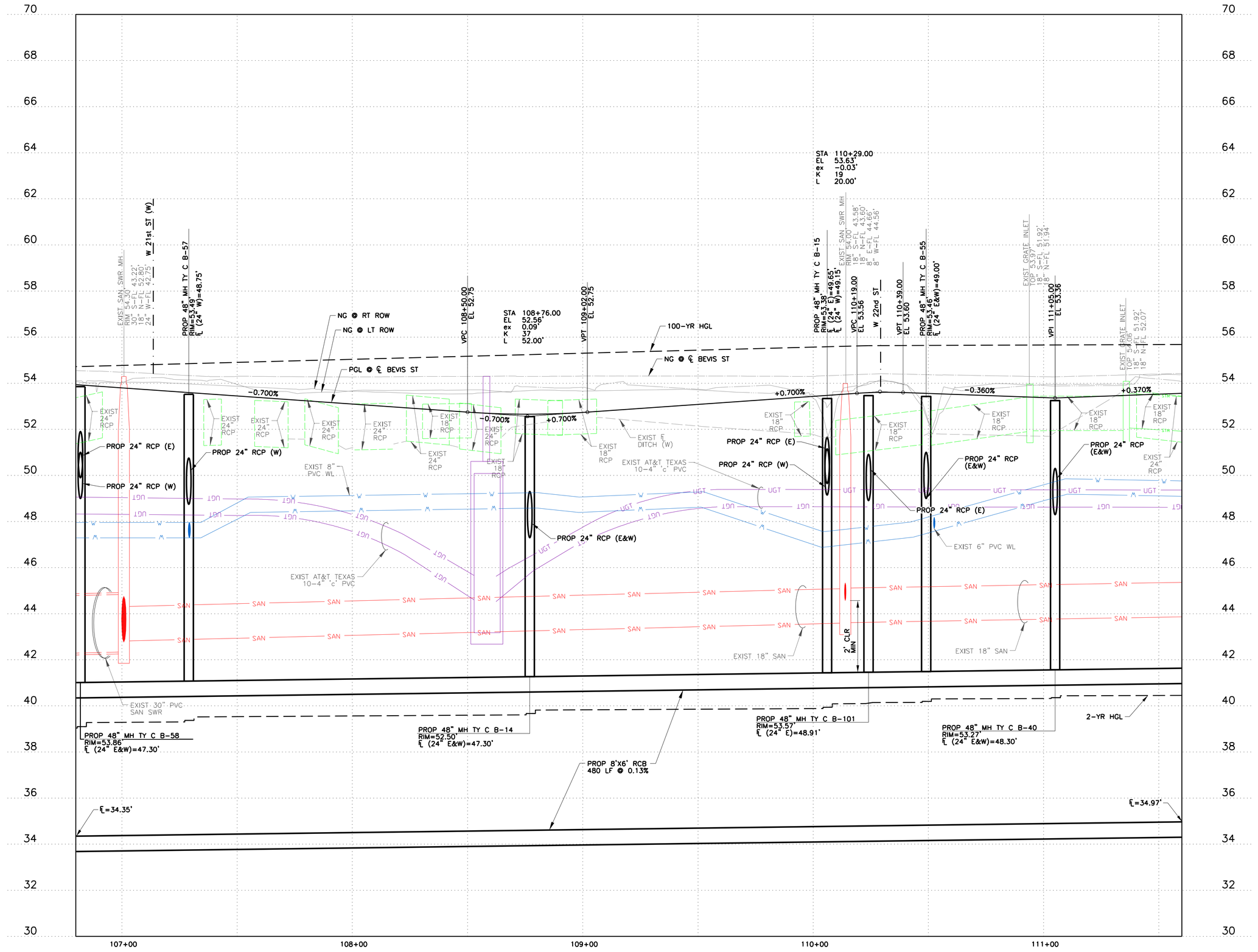
BEVIS ST PLAN 2.dgn
Asset E



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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

BEVIS ST

PROFILE

STA 106+80 TO STA 111+60

SHEET 4 OF 9

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=20'(H) ; 1"=2'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 142 OF 278	

10/26/2025
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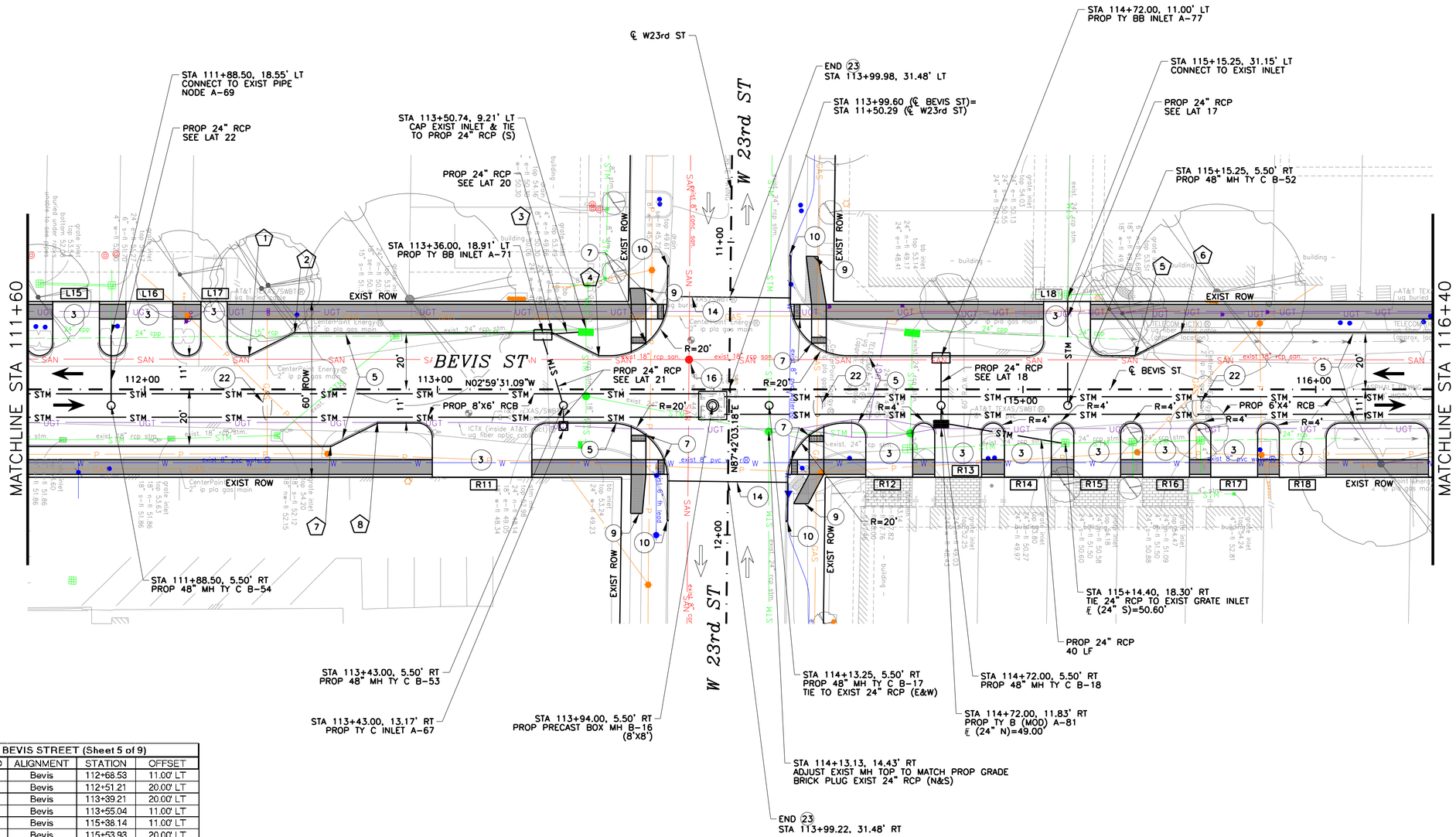
BEVIS ST PROFILE 2.dgn



BEVIS STREET (Sheet 5 of 9)			
POINT NO	ALIGNMENT	STATION	OFFSET
1	Bevis	112+68.53	11.00' LT
2	Bevis	112+51.21	20.00' LT
3	Bevis	113+39.21	20.00' LT
4	Bevis	113+55.04	11.00' LT
5	Bevis	115+38.14	11.00' LT
6	Bevis	115+53.93	20.00' LT
7	Bevis	112+63.51	20.00' RT
8	Bevis	112+79.51	11.00' RT

LEGEND:

- ## — DRIVEWAY NUMBER (SEE DRIVEWAY TABLE SHEETS FOR MORE INFORMATION)
- (##) — GENERAL CONSTRUCTION AND UTILITY NOTES (SEE SHEETS NO.4–6 FOR MORE INFORMATION)
- 5' PROP CONCRETE SIDEWALK
- PROP ASPHALT PAVEMENT
- 4.5" PROP CONCRETE RIPRAP

NOTES:

1. FOR HORIZONTAL ALIGNMENT DATA, SEE HORIZONTAL ALIGNMENT DATA SHEETS. (NO.10–12).
2. CURB INLETS AND PAVEMENT CALLOUTS ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.
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5. REFER TO DEMOLITION PLAN SHEETS (NO.26–27) FOR STORM REMOVAL LIMITS IN ACCORDANCE WITH COH STD SPEC SECTION 02221 AND PAVEMENT REMOVAL LIMITS.
6. REFER TO PROPOSED PLAN AND PROFILE SHEETS (NO.131–157) FOR SANITARY SERVICE LOCATIONS IN ACCORDANCE WITH COH STD SPEC SECTION 02534.
7. ALL DRIVEWAY RADIUS ARE 5' UNLESS OTHERWISE NOTED. SEE DRIVEWAY TABLE FOR MORE INFORMATION.
8. ALL STATIONING REFER TO ℄ BEVIS ST UNLESS OTHERWISE NOTED.

NOTICE:

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VERIFICATION OF PRIVATE UTILITY LINES

Date

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Signature valid for six months.

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0' 20' 40'
SCALE IN FEET

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591

TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

BEVIS ST

PLAN
STA 111+60 TO STA 116+40

SHEET 5 OF 9

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=20'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 143 OF 278	

10/26/2025
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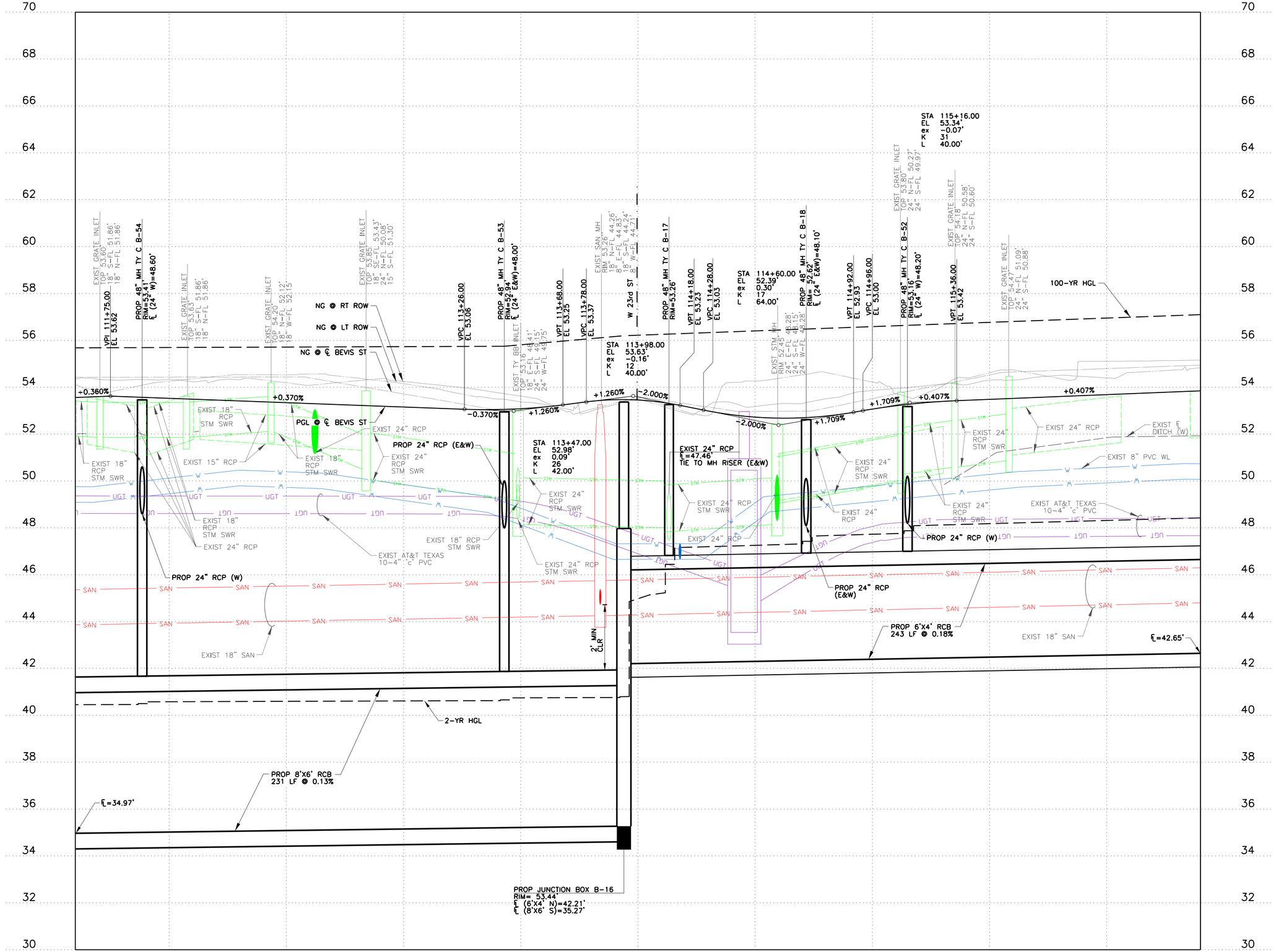
BEVIS ST PLAN 3.dgn



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HORZ 0' 20' 40'
VERT 0' 2' 4'
SCALE IN FEET

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HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

BEVIS ST

PROFILE

STA 111+60 TO STA 116+40

SHEET 6 OF 9

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=20' (H) ; 1"=2' (V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 144 OF 278	

10/26/2025
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BEVIS ST PROFILE 3.dgn
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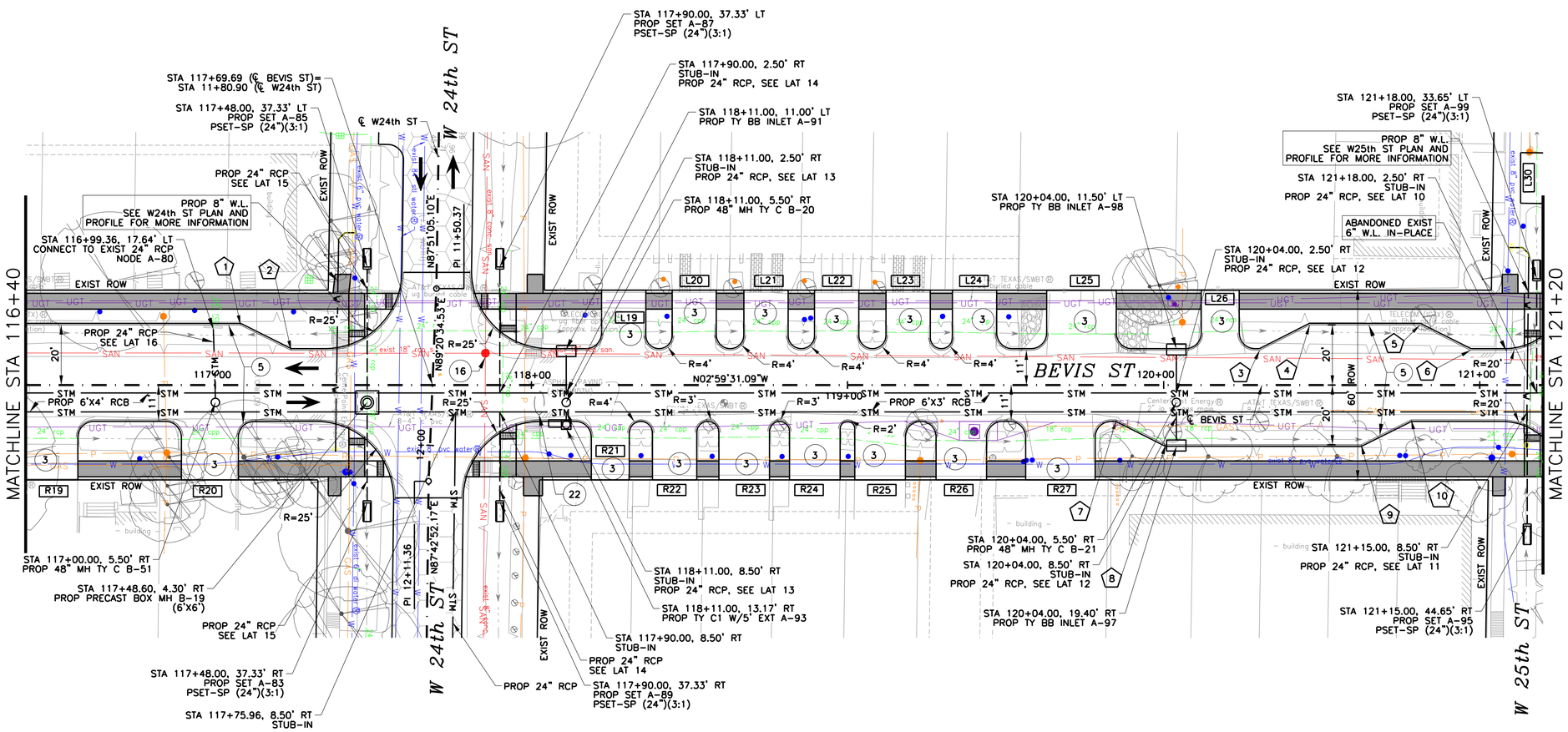

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HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

BEVIS ST

PLAN
STA 116+40 TO STA 121+20

SHEET 7 OF 9

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=20'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 145 OF 278	

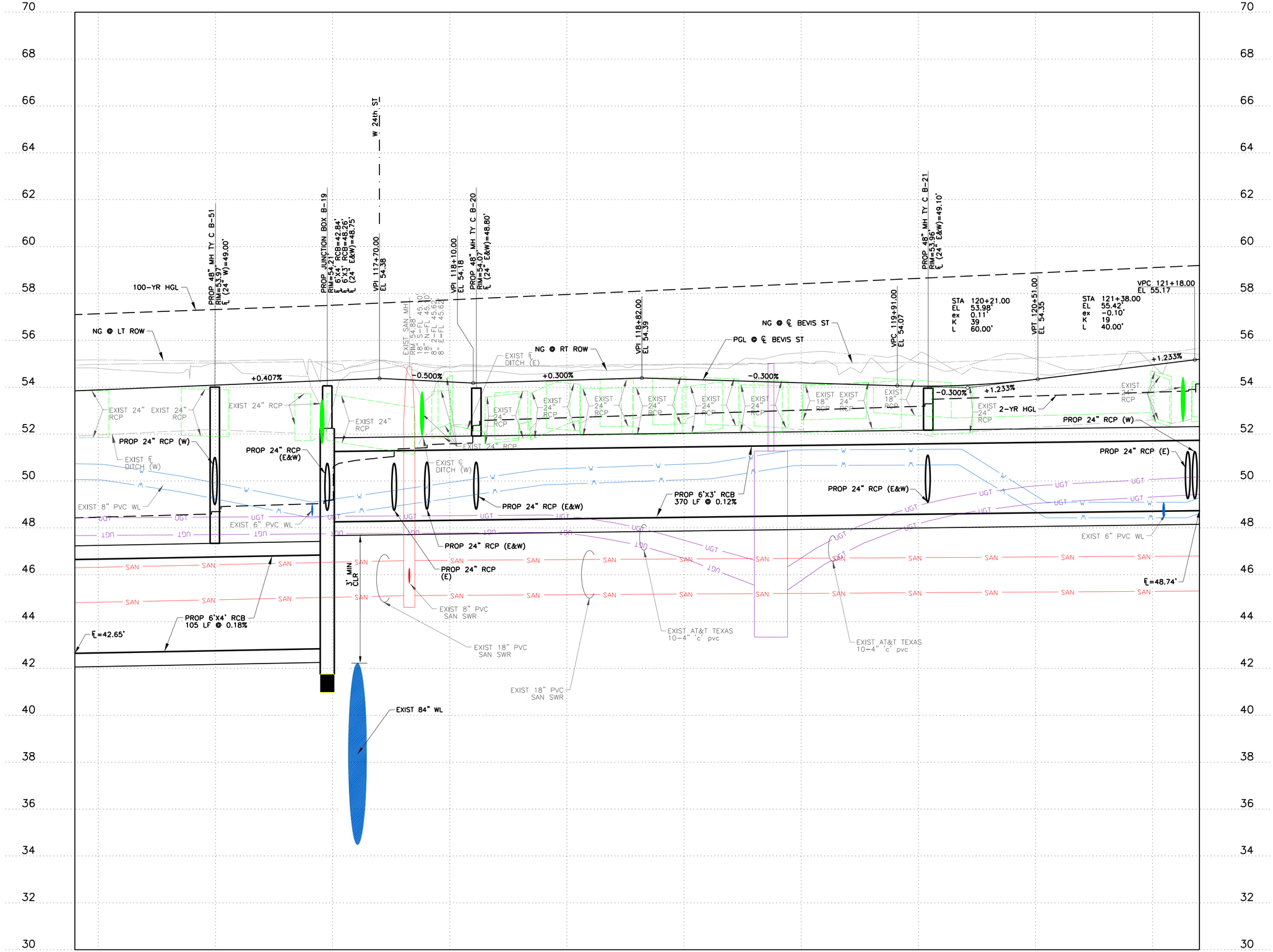
BEVIS STREET (Sheet 7 of 9)

POINT NO	ALIGNMENT	STATION	OFFSET
1	Bevis	117+07.93	20.00' LT
2	Bevis	117+23.93	11.00' LT
3	Bevis	120+30.39	11.00' LT
4	Bevis	120+46.18	20.00' LT
5	Bevis	120+81.08	20.00' LT
6	Bevis	120+97.08	11.00' LT
7	Bevis	119+85.02	11.00' RT
8	Bevis	120+00.65	20.00' RT
9	Bevis	120+62.45	20.00' LT
10	Bevis	120+78.30	11.00' RT

BEVIS STREET (Sheet 9 of 9)

POINT NO	ALIGNMENT	STATION	OFFSET
1	Bevis	121+68.47	11.00' LT
2	Bevis	121+84.27	20.00' LT
3	Bevis	123+38.27	20.00' LT
4	Bevis	123+54.27	11.00' LT
5	Bevis	123+92.36	11.00' LT
6	Bevis	124+08.16	20.00' LT
7	Bevis	124+50.57	20.00' LT
8	Bevis	124+66.57	11.00' LT

Asset E



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HORZ 0' 20' 40'
VERT 0' 2' 4'
SCALE IN FEET

IDCUS
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(713) 541-5591

TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

BEVIS ST

PROFILE

STA 116+40 TO STA 121+20

SHEET 8 OF 9

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=20'(H) ; 1"=2'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 146 OF 278	

10/26/2025
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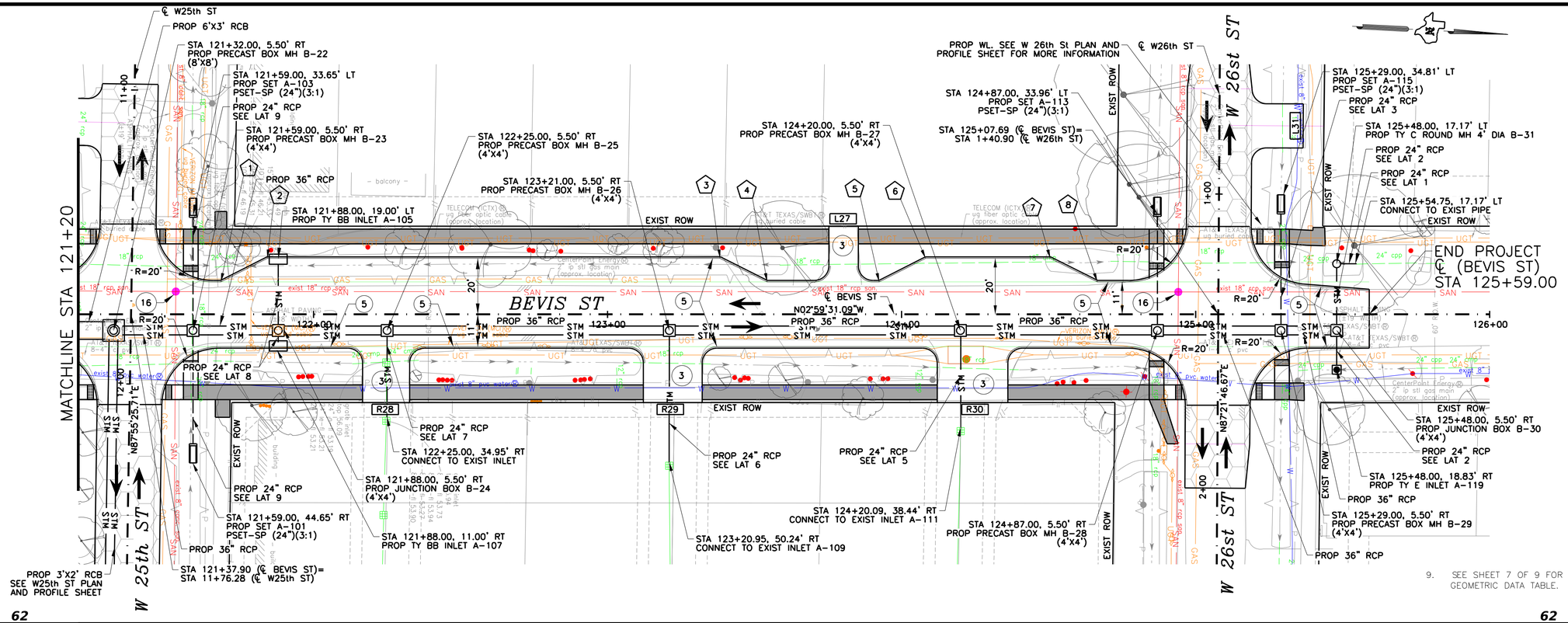
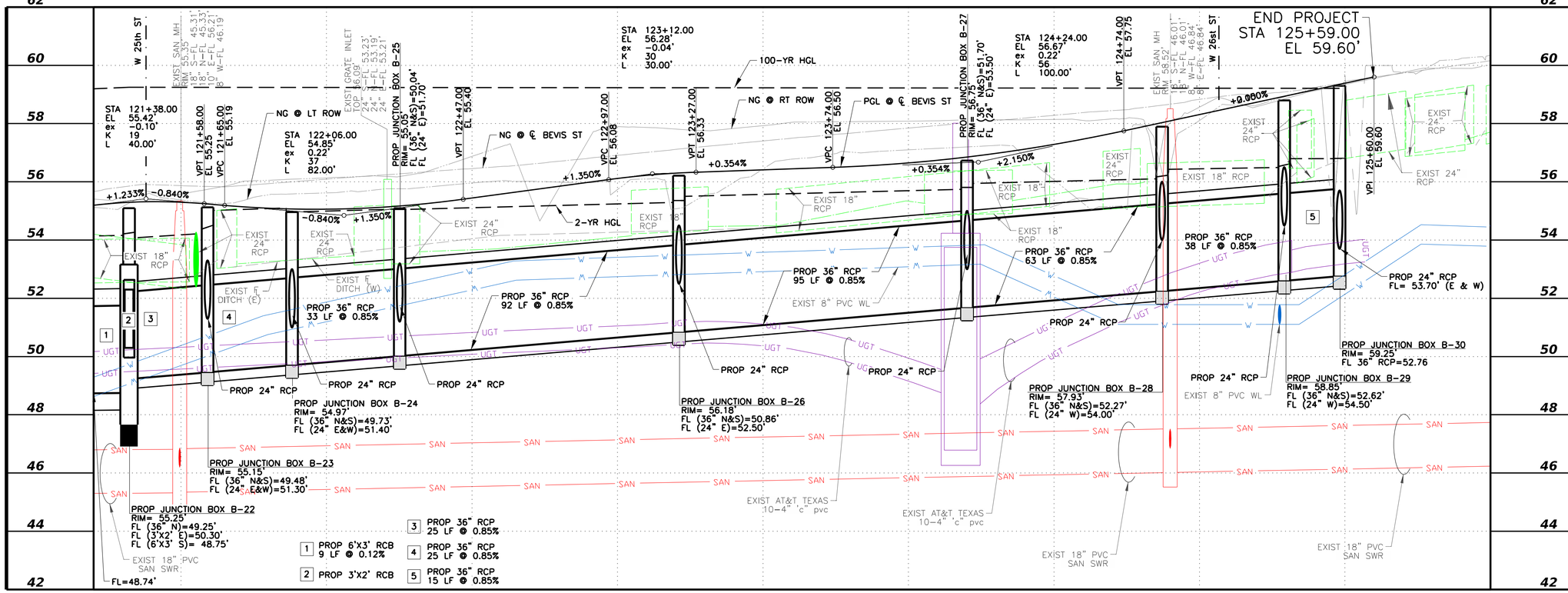
BEVIS ST PROFILE 4.dgn





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HORZ 0' 20' 40'
VERT 0' 2' 4'
SCALE IN FEET

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

BEVIS ST

PLAN AND PROFILE
STA 121+20 TO END

SHEET 9 OF 9

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=20' (H) ; 1"=2' (V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 147 OF 278	

Ronitmg
10/27/2025
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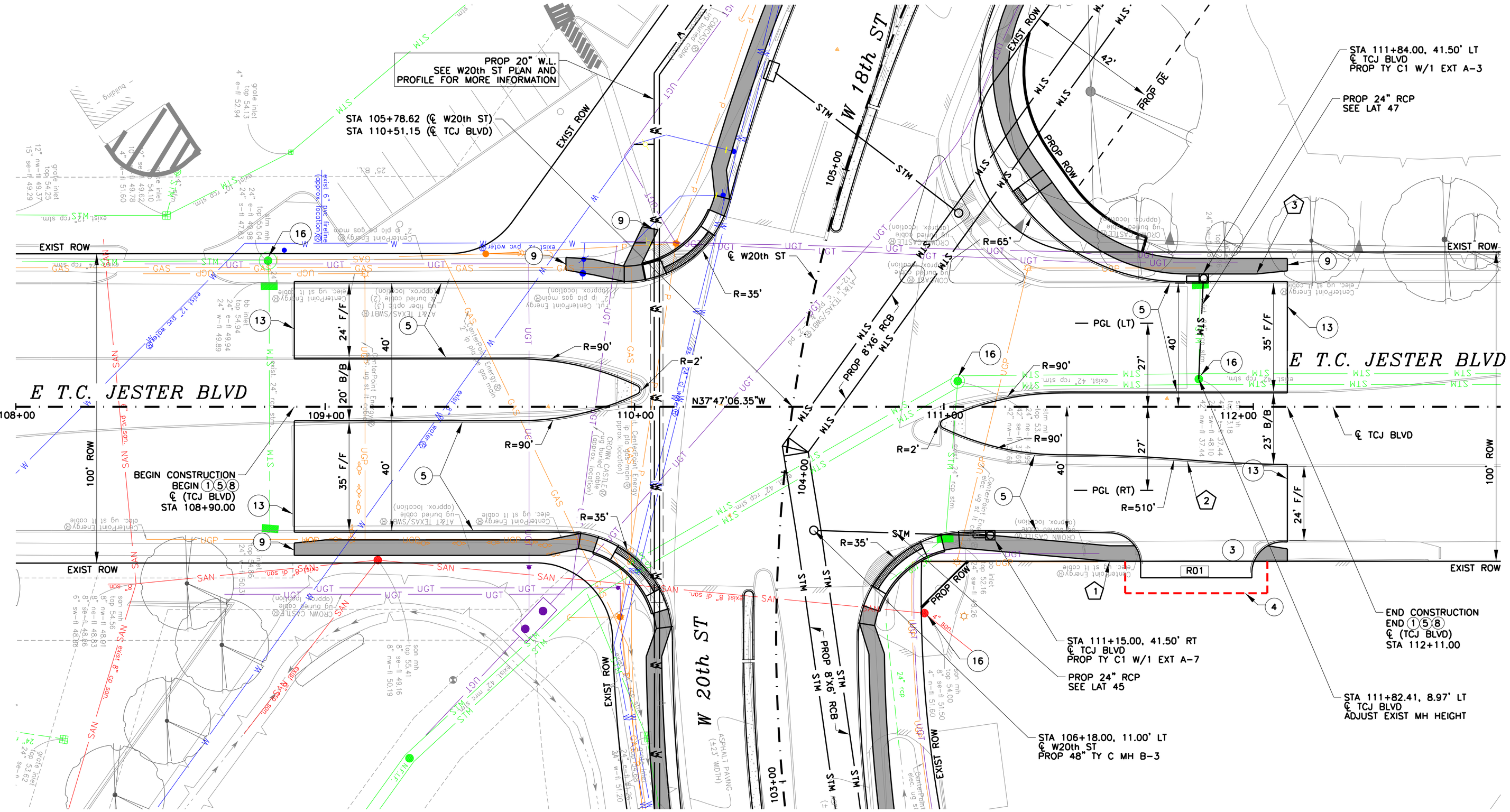
BEVIS ST PP 5.dgn



(##)

TC Jester Blvd			
POINT NO	ALIGNMENT	STATION	OFFSET
1	TCJ	111+53.55	49.93' RT
2	TCJ	111+78.74	17.61' RT
3	TCJ	112+01.00	43.00' LT

LEGEND:

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
TC JESTER BLVD
PLAN

SHEET 1 OF 2

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=20'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 148 OF 278	

Ronit+nG
10/24/2025
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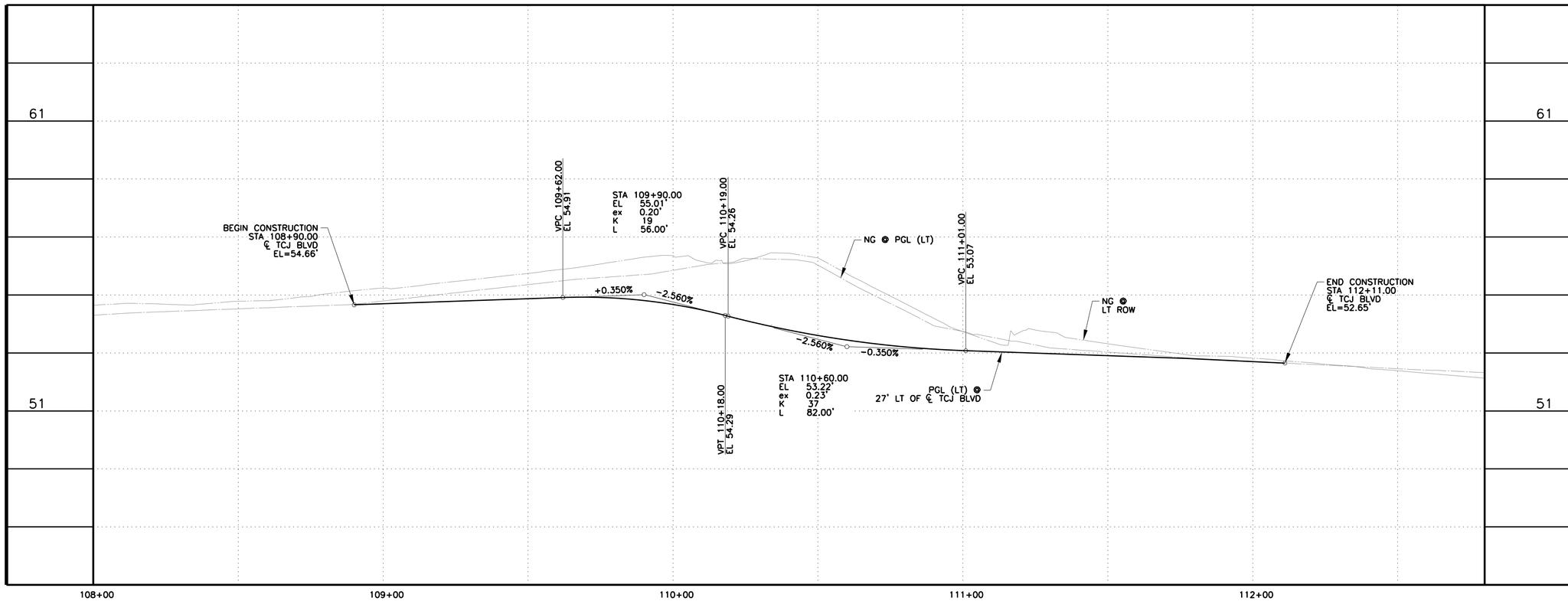
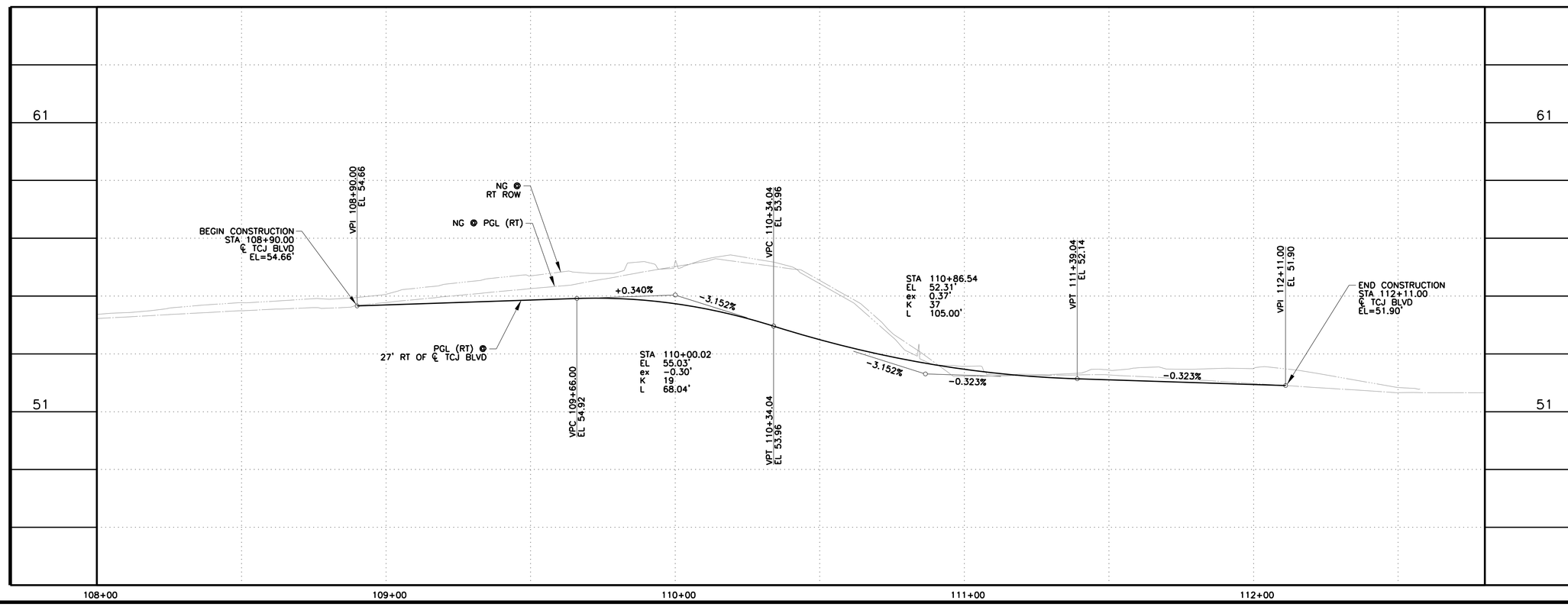
TCJ ST PLAN.dgn





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VERIFICATION OF PRIVATE UTILITY LINES

Date

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HORZ 0' 20' 40'
VERT 0' 2' 4'
SCALE IN FEET

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
TC JESTER BLVD
PROFILE

SHEET 2 OF 2

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=20' (H) ; 1"=2' (V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 149 OF 278	

Ronitng
10/24/2025
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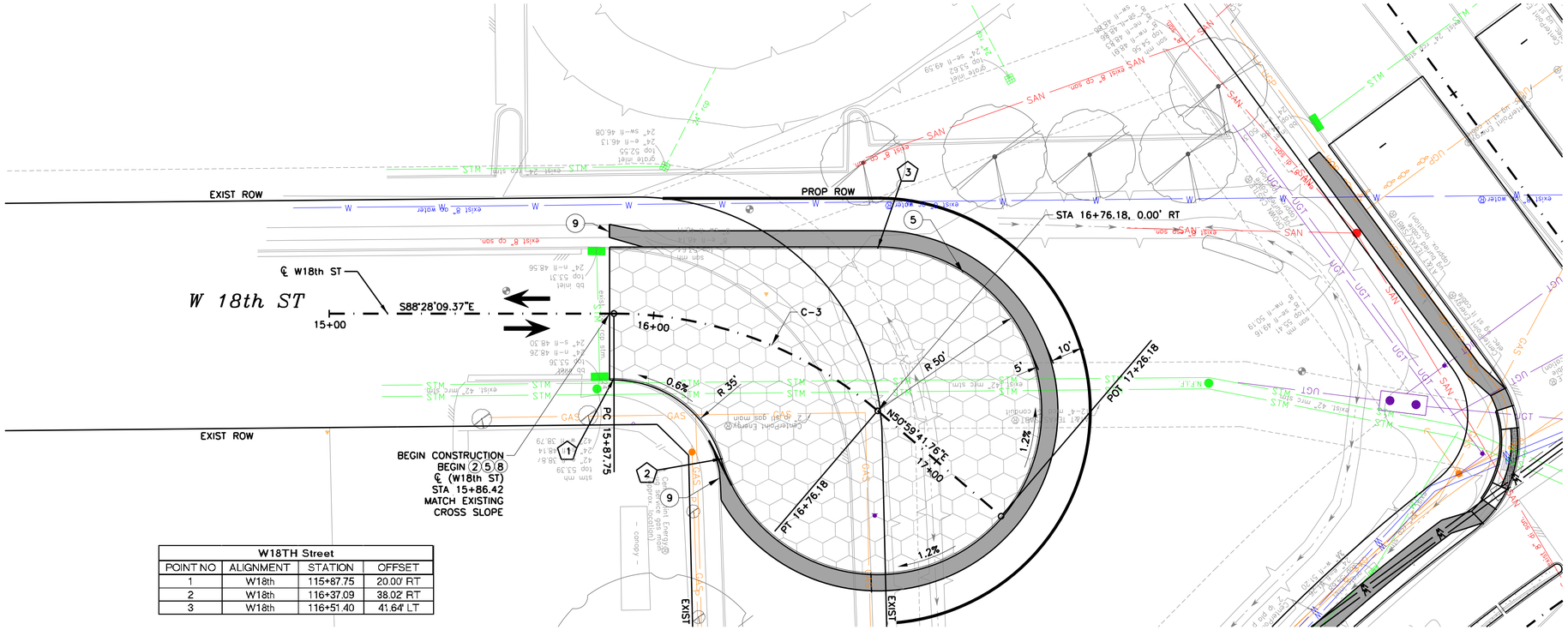
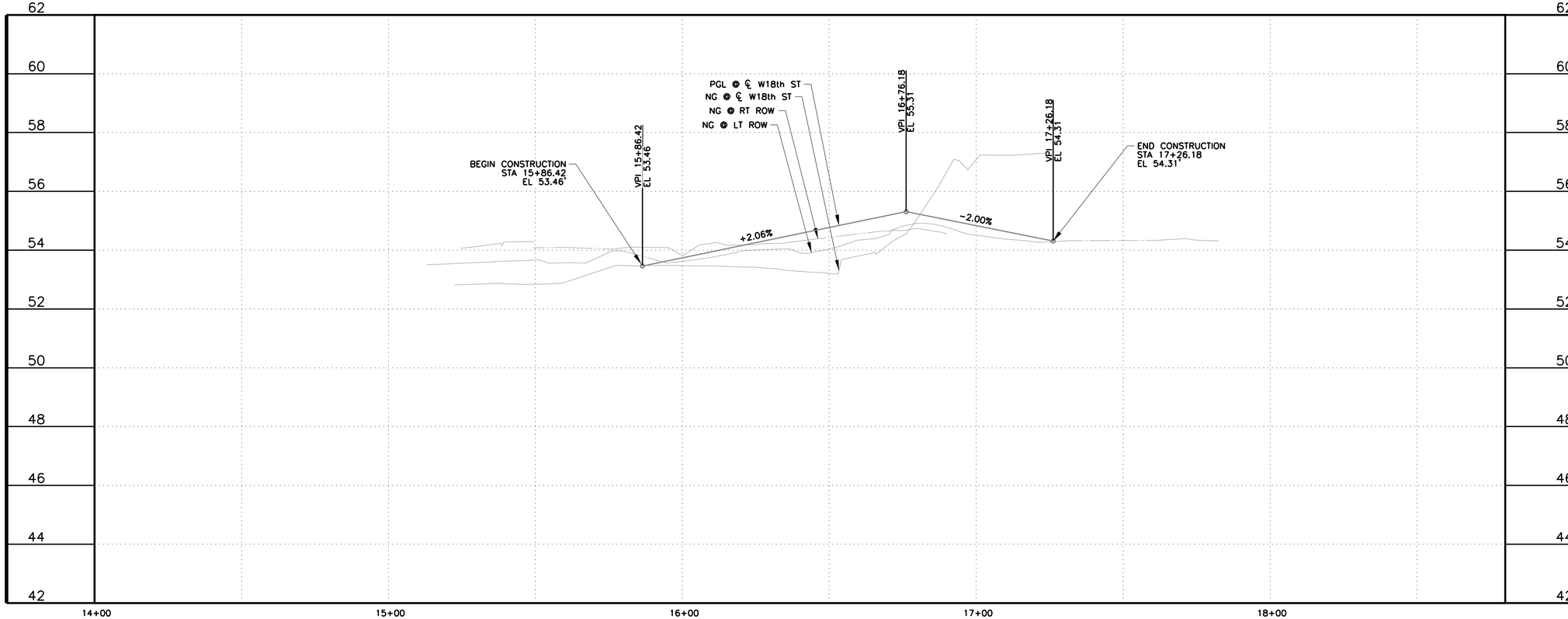


W18TH Street			
POINT NO	ALIGNMENT	STATION	OFFSET
1	W18th	115+87.75	20.00' RT
2	W18th	116+37.09	38.02' RT
3	W18th	116+51.40	41.64' LT



LEGEND:

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- ## — GENERAL CONSTRUCTION AND UTILITY NOTES (SEE SHEETS NO.4–6 FOR MORE INFORMATION)
- 5' PROP CONCRETE SIDEWALK
- PROP ASPHALT PAVEMENT
- 4.5" PROP CONCRETE RIPRAP

NOTES:

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HUNG H. NGUYEN, P.E,
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
W 18TH ST
PLAN AND PROFILE

SHEET 1 OF 1

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=20' (H) ; 1"=2' (V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 150 OF 278	

10/23/2025
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W18th ST PP.dgn
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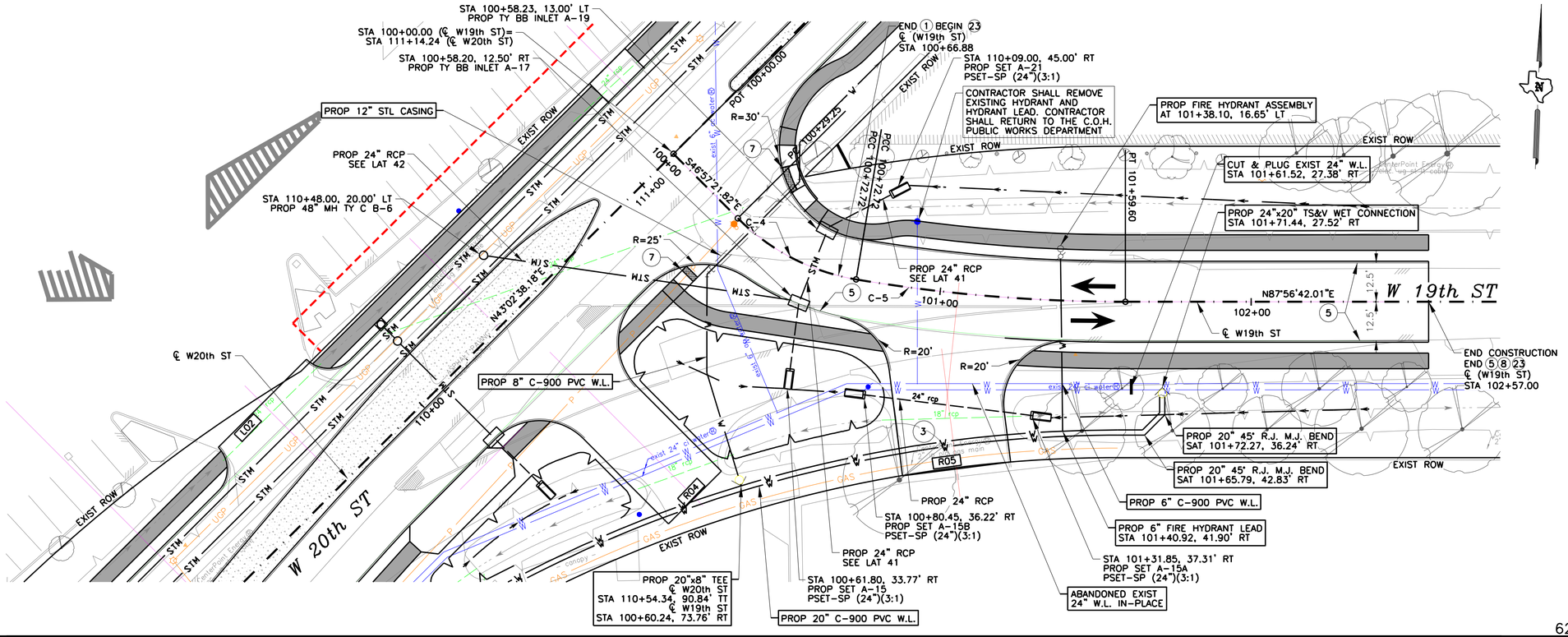

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HUNG H. NGUYEN, P.E.
P.E. NO. 113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
W 19TH ST

PLAN AND PROFILE

SHEET 1 OF 1

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=20'(H) ; 1"=2'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 151 OF 278	

62

10/27/2025
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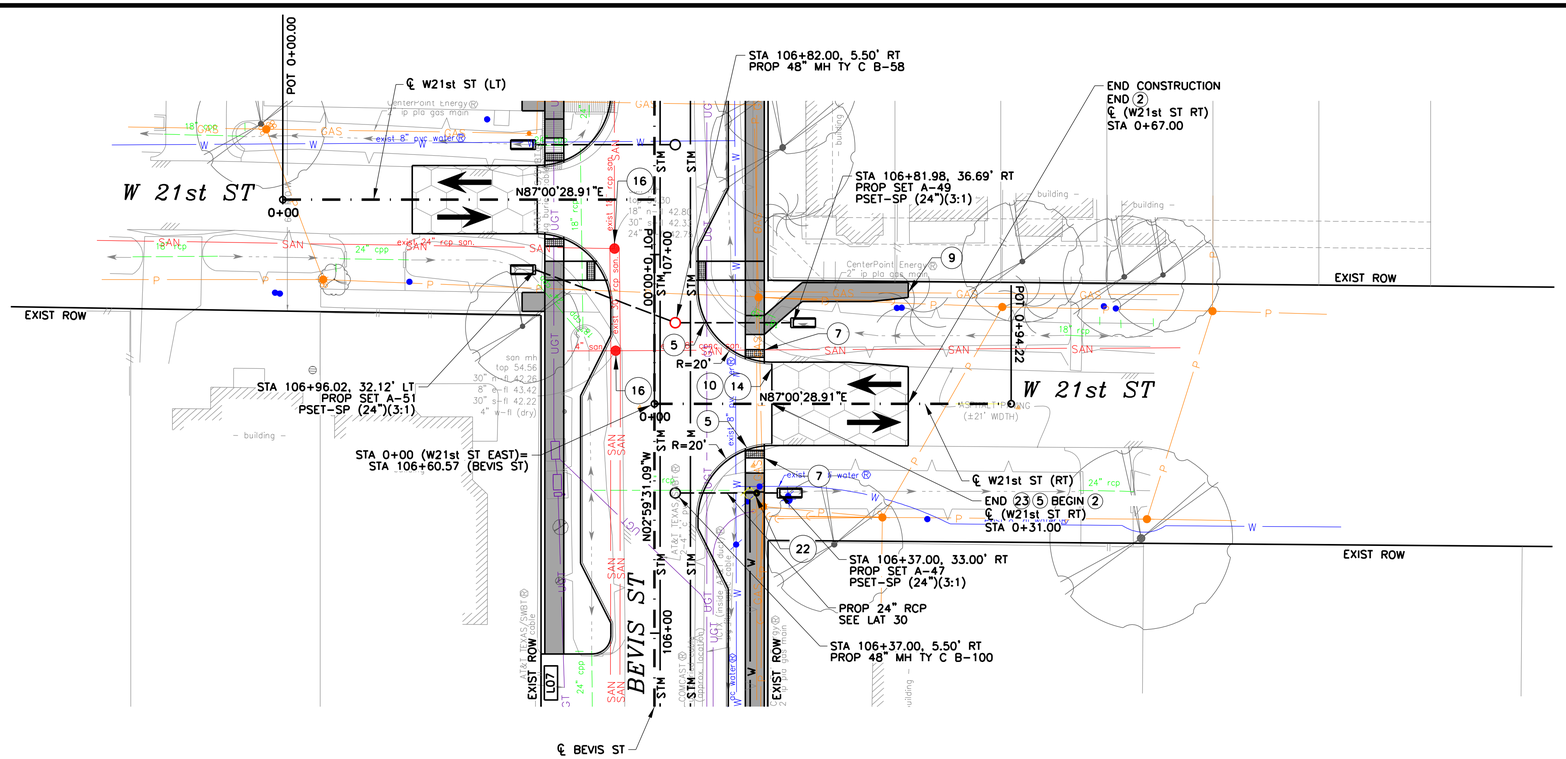
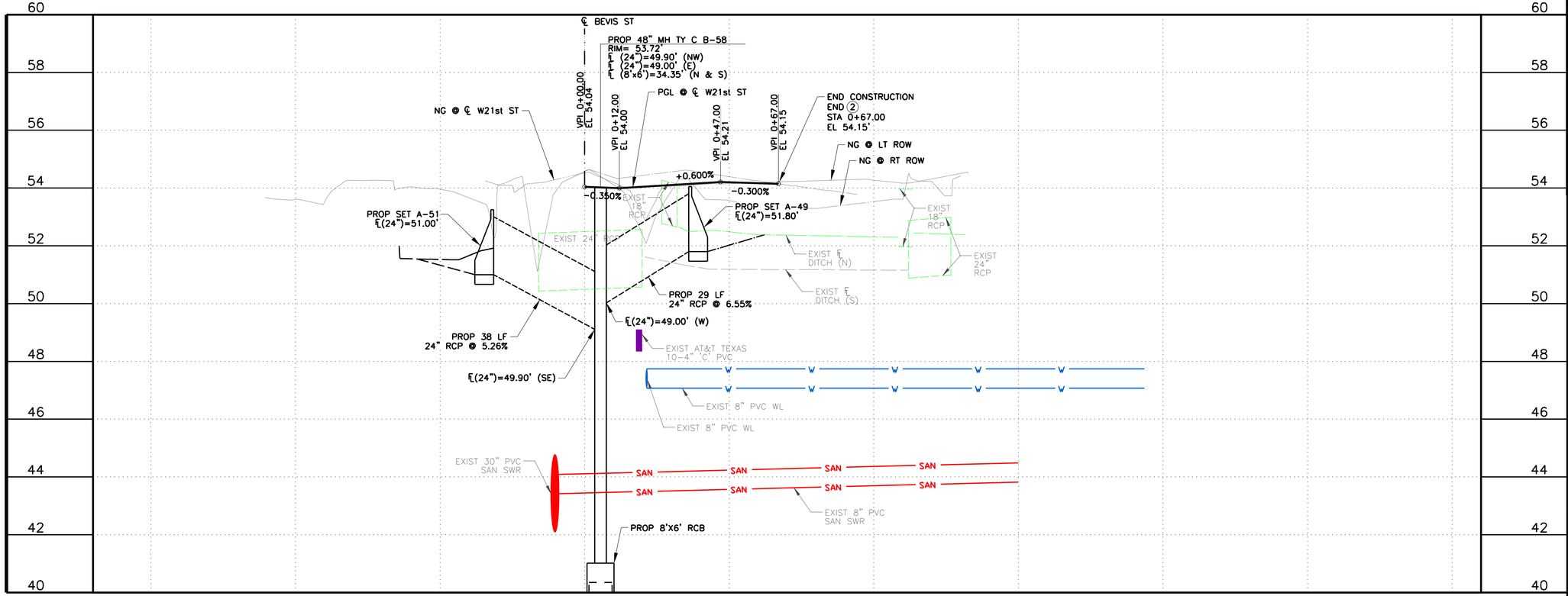
W19th ST PP.dgn





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HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

W 21ST ST (EAST)

PLAN AND PROFILE

SHEET 1 OF 1

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=20' (H) ; 1"=2' (V)	
CITY OF HOUSTON PM	
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SHEET NO. 152 OF 278	

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10/24/2025
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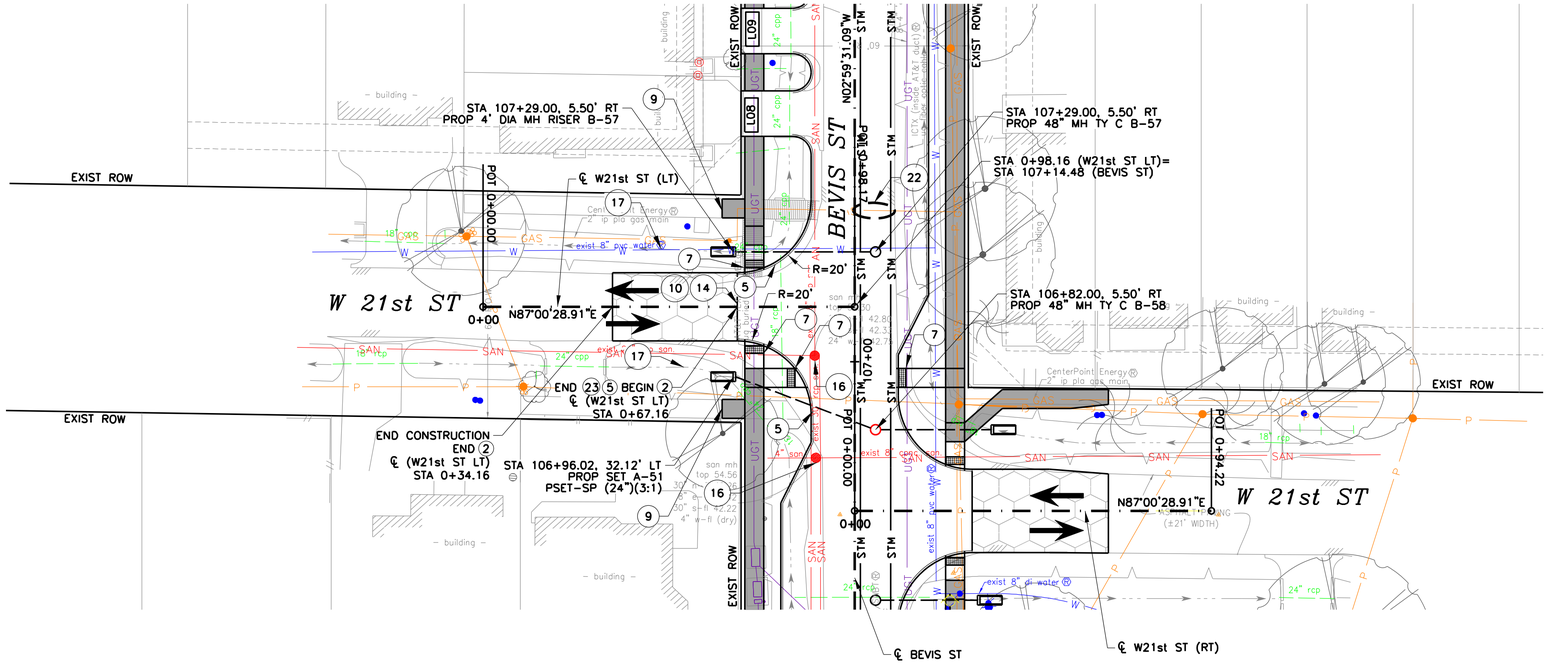
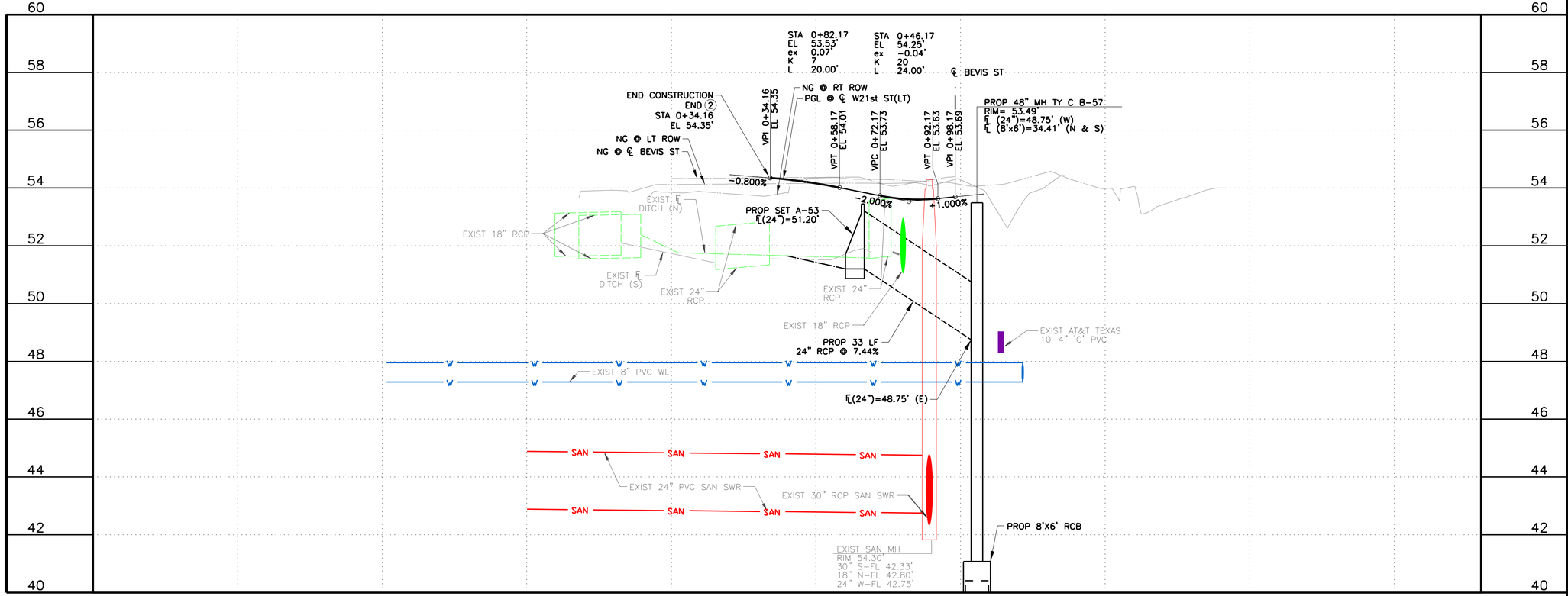
W21st ST EAST PP.dgn





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SCALE IN FEET

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
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(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

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HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
W21th ST (WEST)
PLAN AND PROFILE

SHEET 1 OF 1

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
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1"=20' (H) ; 1"=2' (V)	
CITY OF HOUSTON PM	
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SHEET NO. 153 OF 278	

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10/24/2025
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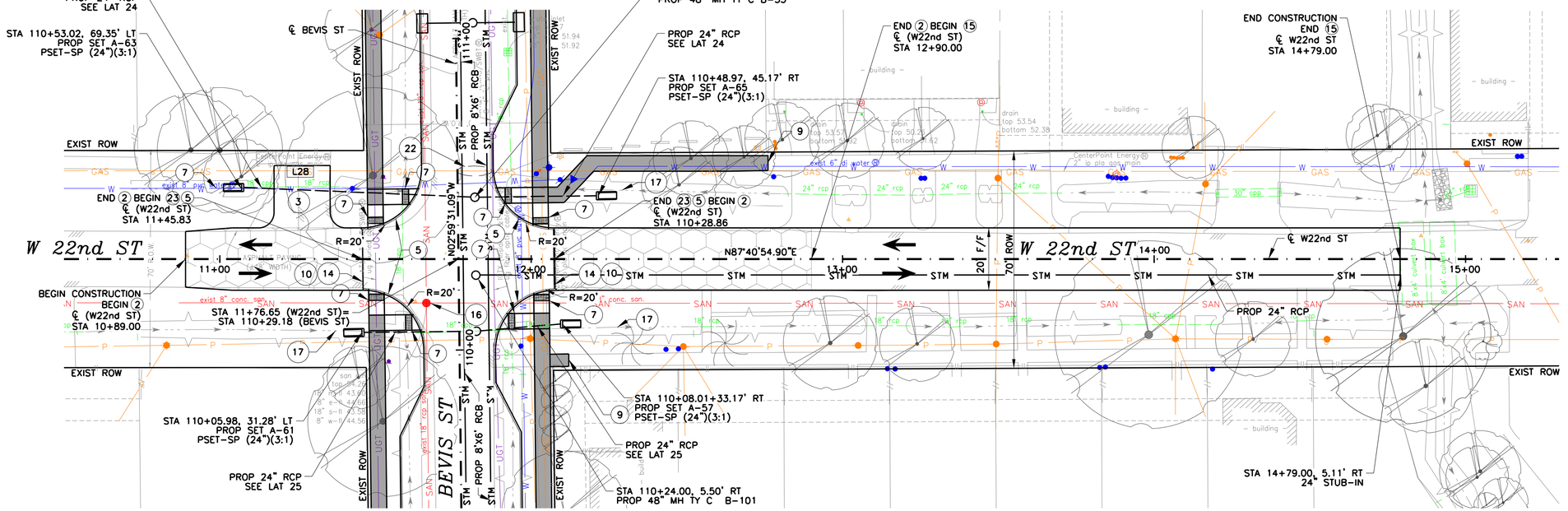

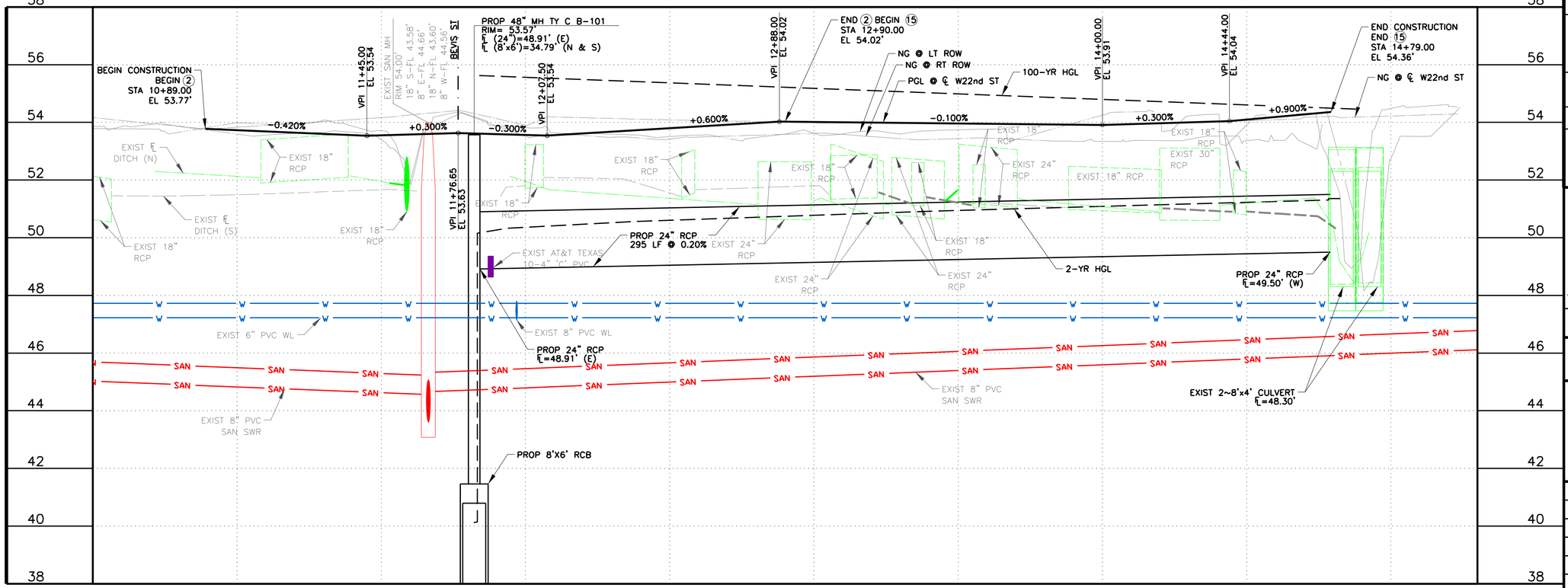

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
W 22ND ST
PLAN AND PROFILE

SHEET 1 OF 1

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LOI MA	
SHEET NO. 154 OF 278	

58

Ron Ting
10/26/2025
...\Deliverables\Sheet\W22th ST PP.dgn
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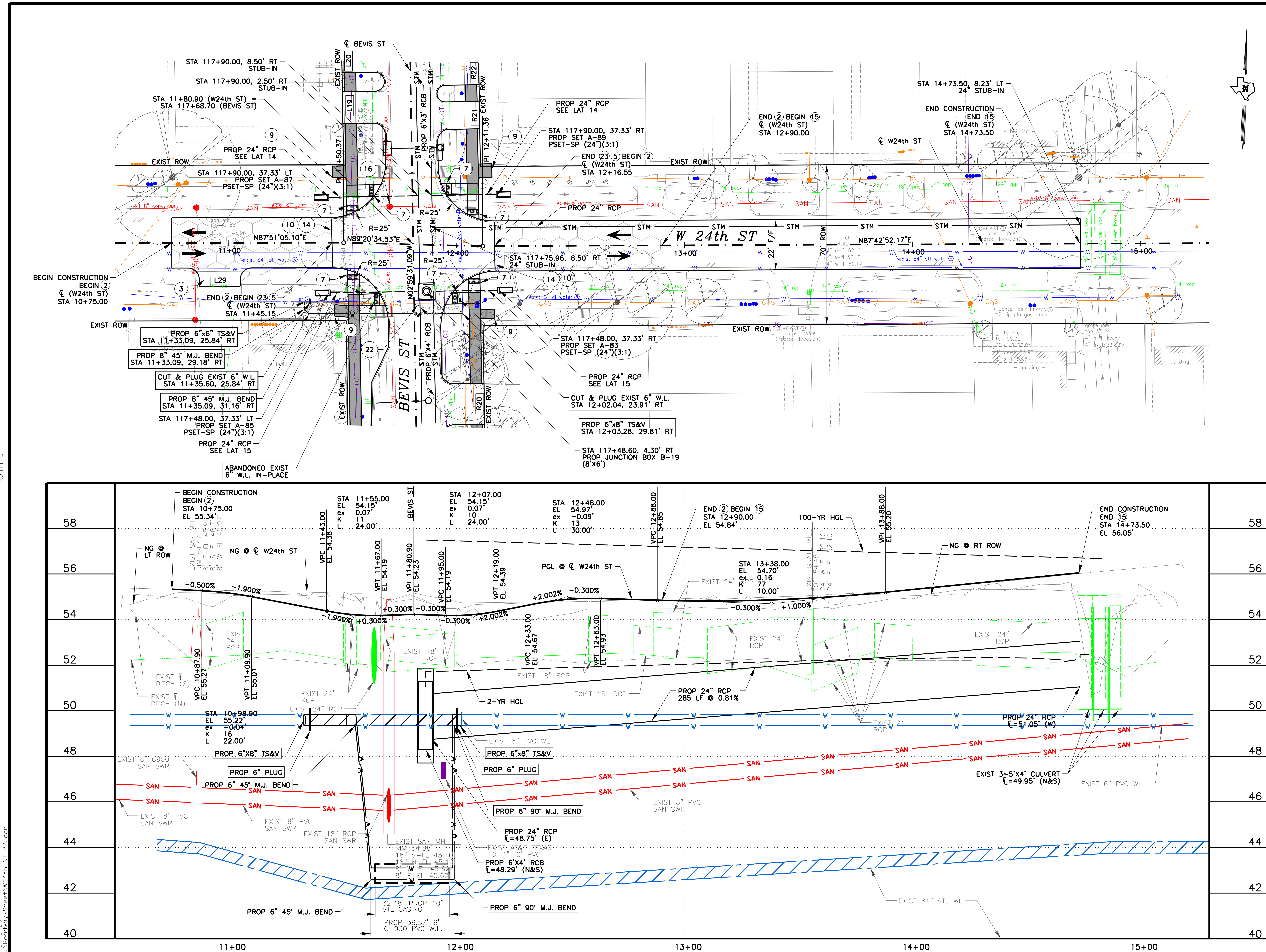

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
W 24TH ST
PLAN AND PROFILE

SHEET 1 OF 1

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M-410291-0001-4	
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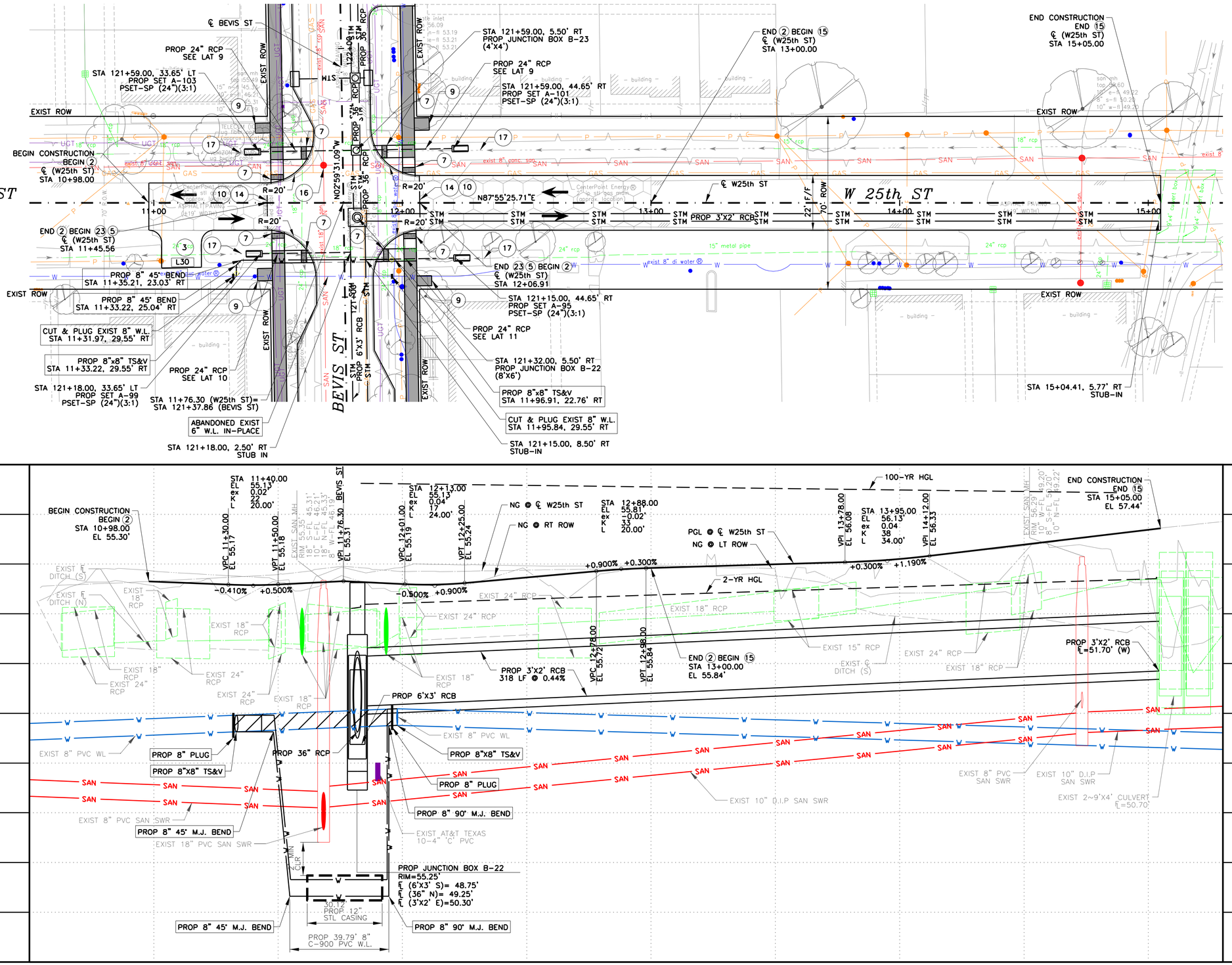


LEGEND:

- ## — DRIVEWAY NUMBER (SEE DRIVEWAY TABLE SHEETS FOR MORE INFORMATION)
- (##) — GENERAL CONSTRUCTION AND UTILITY NOTES (SEE SHEETS NO.4–6 FOR MORE INFORMATION)
- 5' PROP CONCRETE SIDEWALK
- PROP ASPHALT PAVEMENT
- 4.5" PROP CONCRETE RIPRAP

NOTES:

1. FOR HORIZONTAL ALIGNMENT DATA, SEE HORIZONTAL ALIGNMENT DATA SHEETS. (NO.10–12).
2. CURB INLETS AND PAVEMENT CALLOUTS ARE TO FACE OF CURB OR EDGE OF PAVEMENT UNLESS NOTED OTHERWISE.
3. REFER TO INTERSECTION LAYOUT SHEETS FOR GRADING PLANS AND ADDITIONAL ROADWAY GEOMETRY.
4. FOR INTERSECTION CURB RETURN POINT LOCATIONS, SEE INTERSECTION LAYOUTS.
5. REFER TO DEMOLITION PLAN SHEETS (NO.26–27) FOR STORM REMOVAL LIMITS IN ACCORDANCE WITH COH STD SPEC SECTION 02221 AND PAVEMENT REMOVAL LIMITS.
6. REFER TO PROPOSED PLAN AND PROFILE SHEETS (NO.131–157) FOR SANITARY SERVICE LOCATIONS IN ACCORDANCE WITH COH STD SPEC SECTION 02534.
7. ALL DRIVEWAY RADIUS ARE 5' UNLESS OTHERWISE NOTED. SEE DRIVEWAY TABLE FOR MORE INFORMATION.

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.

Date

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

HORZ 0' 20' 40'
VERT 0' 2' 4'
SCALE IN FEET

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

THESE PLANS ARE PRELIMINARY AND ARE BEING ISSUED FOR REVIEW BY PUBLIC AGENCIES AND OTHER PRELIMINARY PURPOSES. WHEN ISSUED IN FINAL FORM THEY WILL BE SEALED, SIGNED, AND DATED BY THE RESPONSIBLE ENGINEER.

RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

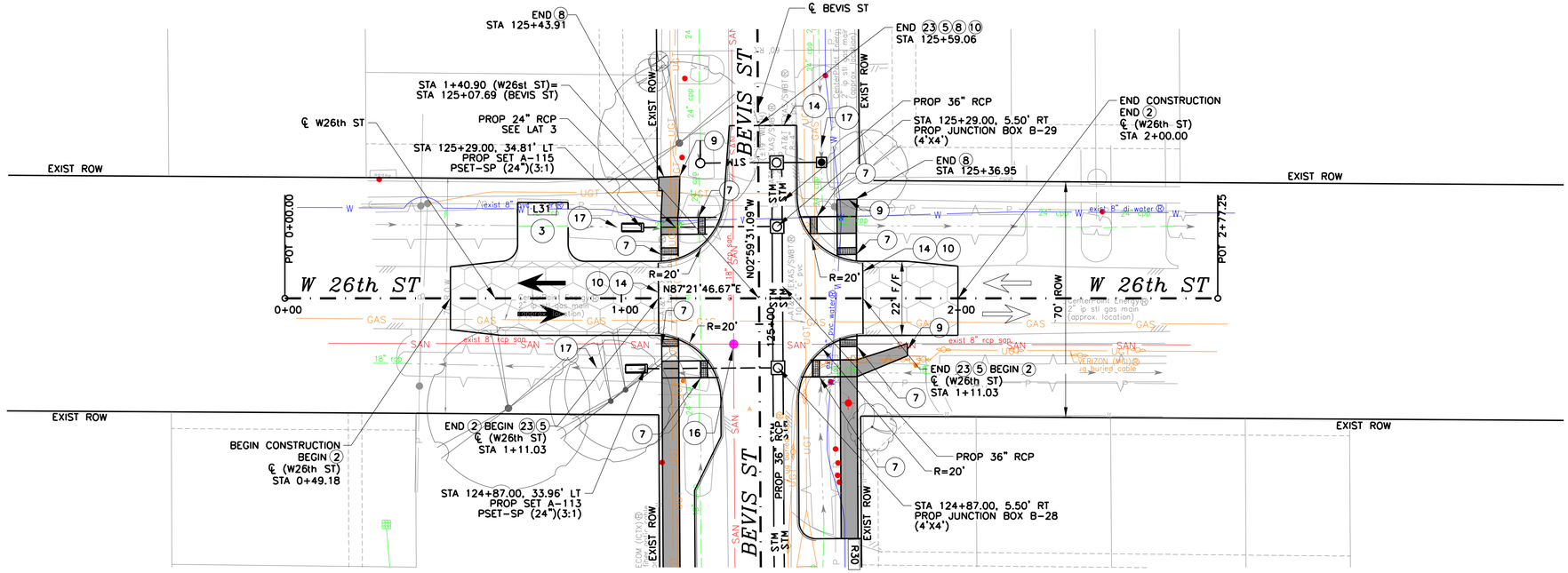
TURKEY GULLY
W 25TH ST
PLAN AND PROFILE

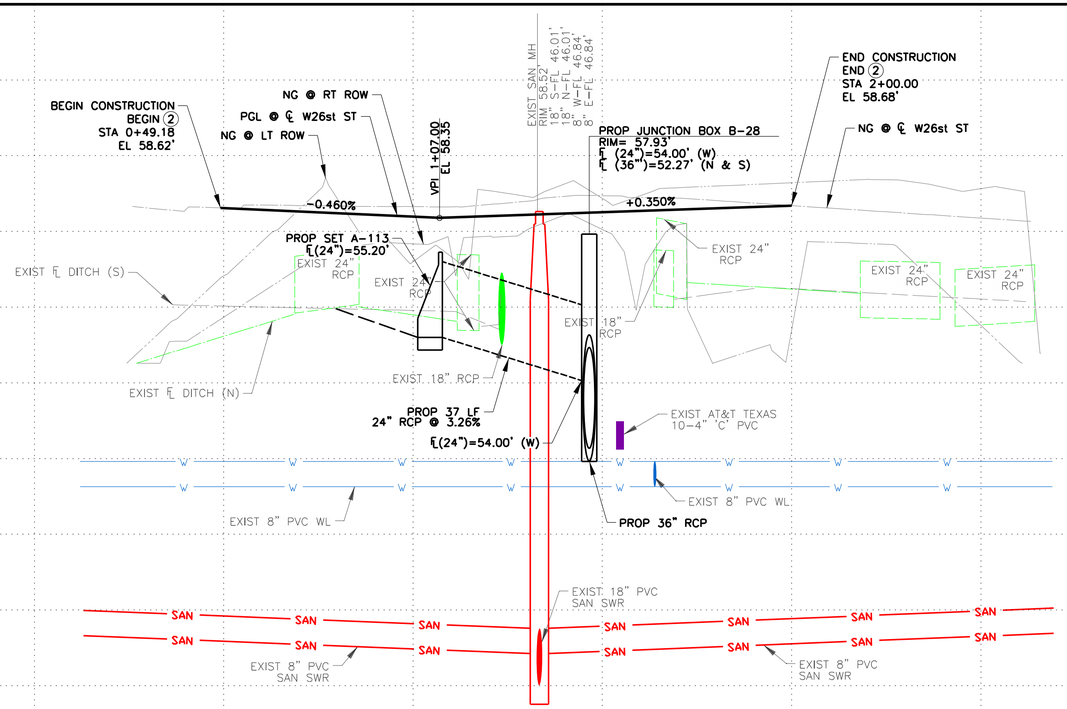
SHEET 1 OF 1

WBS NUMBER	M-410291-0001-4
DRAWING SCALE	1"=20' (H) ; 1"=2' (V)
CITY OF HOUSTON PM	LOI MA
SHEET NO.	156 OF 278

FOR CITY OF HOUSTON USE ONLY

10/26/2025
...\Roadway\Sheet\W25th ST PP.dgn
W25th ST PP.dgn
Printing





LEGEND:

- ## — DRIVEWAY NUMBER (SEE DRIVEWAY TABLE SHEETS FOR MORE INFORMATION)
- ## — GENERAL CONSTRUCTION AND UTILITY NOTES (SEE SHEETS NO.4–6 FOR MORE INFORMATION)
- 5' PROP CONCRETE SIDEWALK
- PROP ASPHALT PAVEMENT
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Centerpoint Energy natural gas utilities shown. (Gas service lines are not shown). This signature not to be used for conflict verification.

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Signature valid for six months.

Date

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

HORZ 0' 20' 40'
VERT 0' 2' 4'
SCALE IN FEET

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

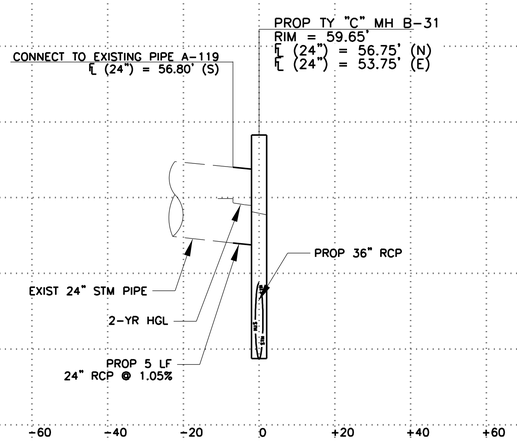
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
W 26TH ST
PLAN AND PROFILE

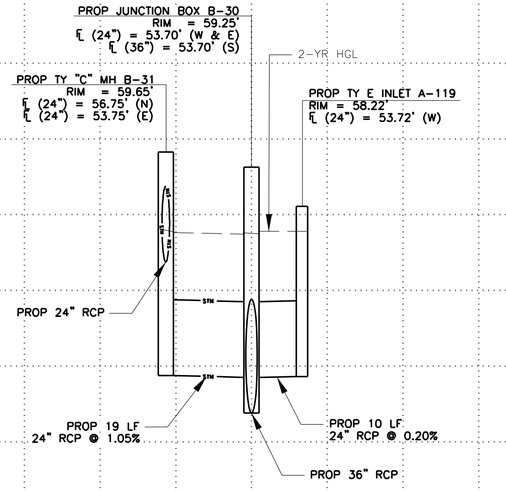
SHEET 1 OF 1

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=20'(H) ; 1"=2'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 157 OF 278	

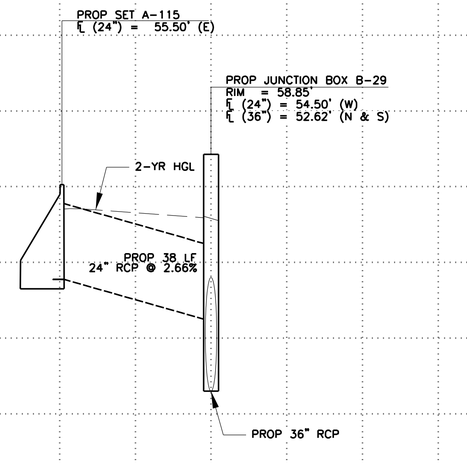
10/24/2025
...\Roadway\Sheet\W26th ST PP.dgn
W26th ST PP.dgn



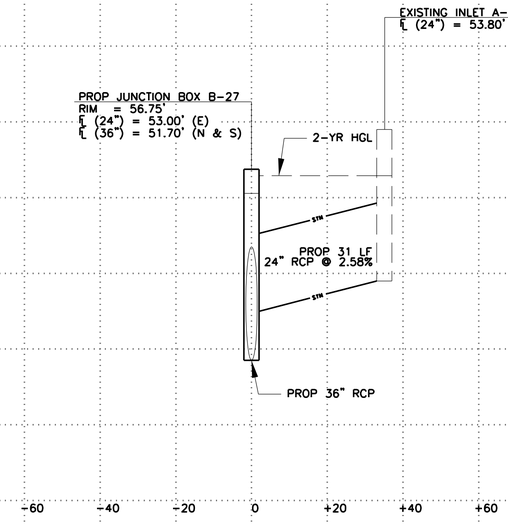
LATERAL 1
BEVIS ST
STA 125+48.00



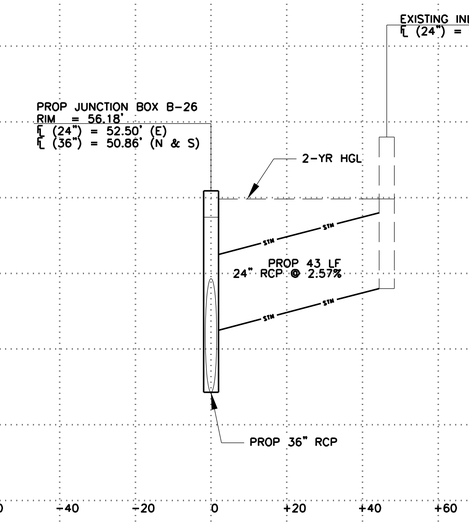
LATERAL 2
BEVIS ST
STA 125+48.00



LATERAL 3
BEVIS ST
STA 129+29.00



LATERAL 5
BEVIS ST
STA 124+20.09



LATERAL 6
BEVIS ST
STA 123+20.95

HORZ 0' 20' 40'
VERT 0' 2' 4'
SCALE IN FEET

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
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(713) 941-5591
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

STORM SEWER LATERALS

SHEET 1 OF 10

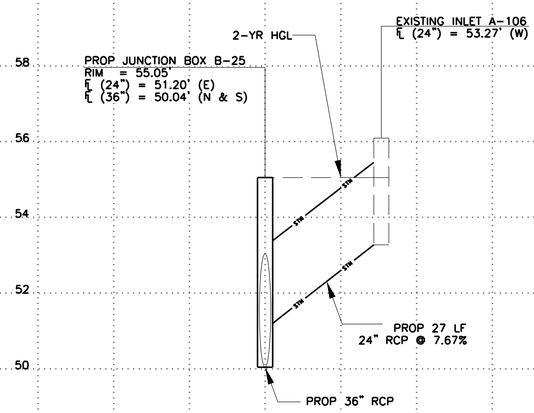
WBS NUMBER
M-410291-0001-4
DRAWING SCALE
1"=20' (H) & 1"=2' (V)
CITY OF HOUSTON PM
LOI MA
SHEET NO. 158 OF 278

FOR CITY OF HOUSTON USE ONLY

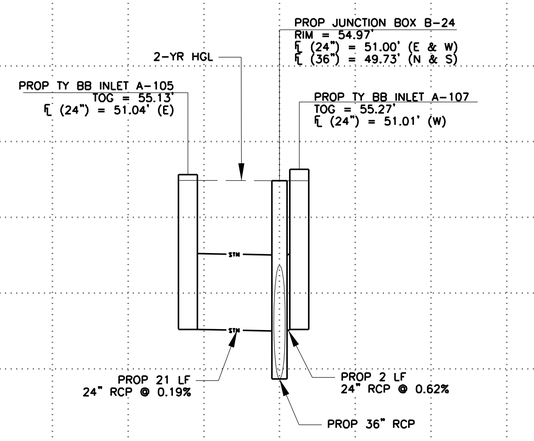
Asset E

10/23/2025
I:\Sheets\TURKEY_LAT_01.dgn

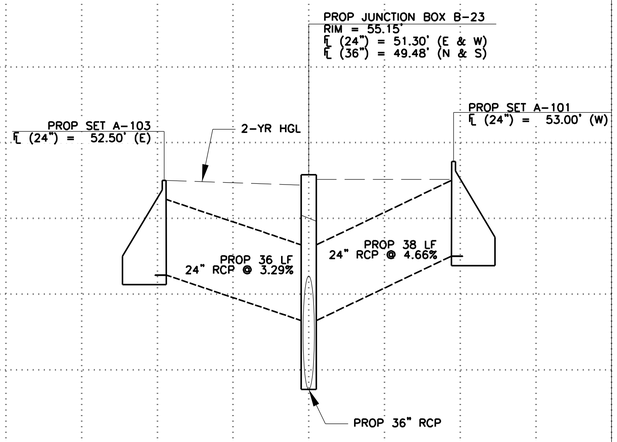
TURKEY_LAT_01.dgn



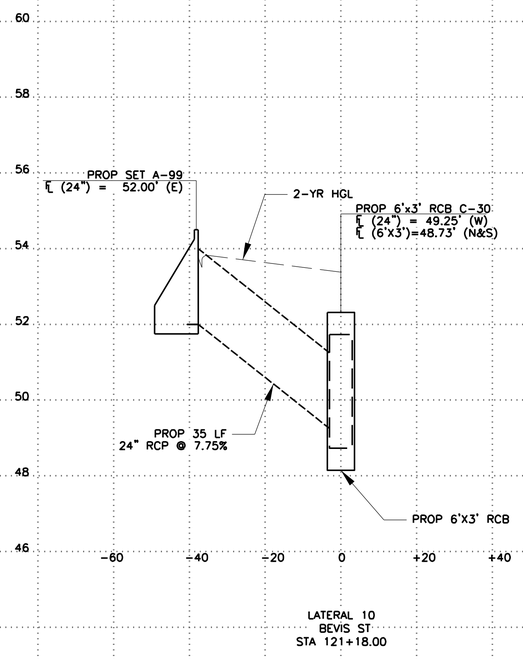
LATERAL 7
BEVIS ST
STA 122+25.00



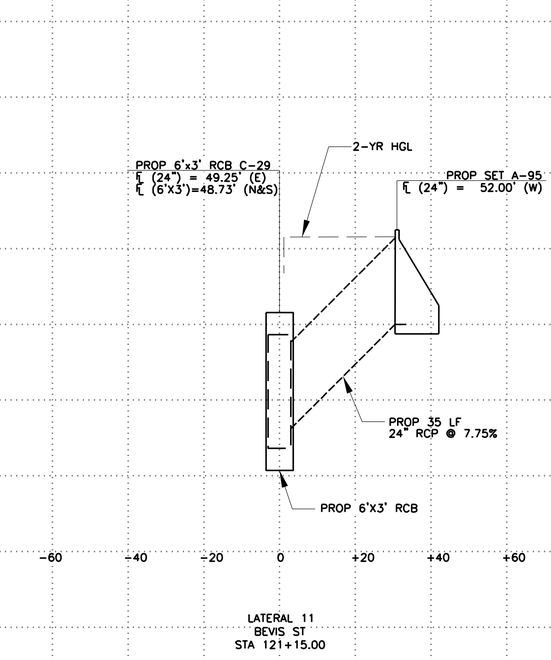
LATERAL 8
BEVIS ST
STA 121+88.00



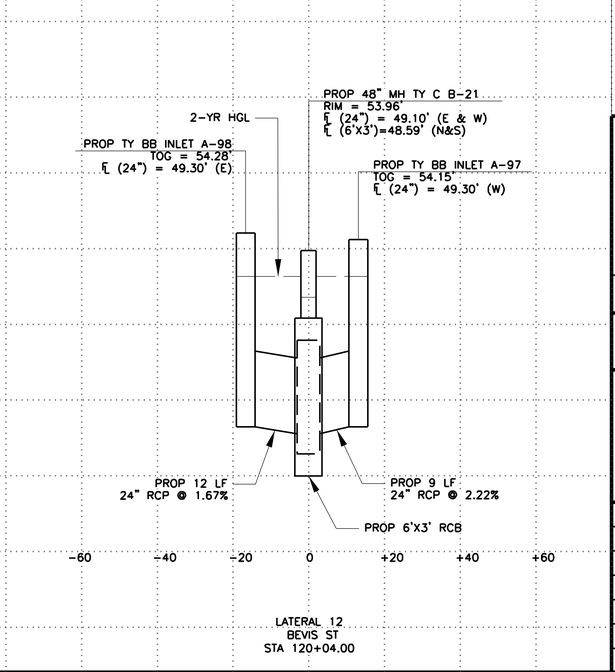
LATERAL 9
BEVIS ST
STA 121+59.00



LATERAL 10
BEVIS ST
STA 121+18.00



LATERAL 11
BEVIS ST
STA 121+15.00



LATERAL 12
BEVIS ST
STA 120+04.00

HORZ 0' 20' 40'
VERT 0' 2' 4'
SCALE IN FEET

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 941-5591
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

STORM SEWER LATERALS

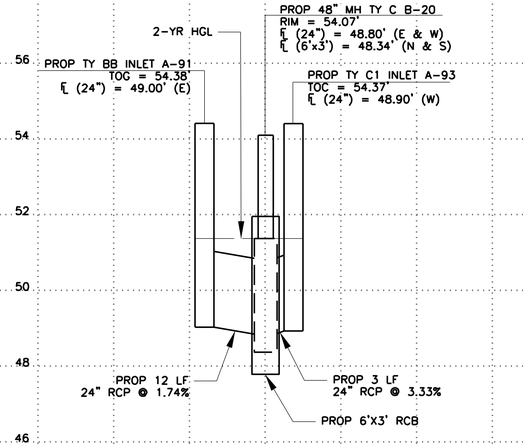
SHEET 2 OF 10

WBS NUMBER	M-410291-0001-4
DRAWING SCALE	1"=20' (H) & 1"=2' (V)
CITY OF HOUSTON PM	LOI MA
SHEET NO. 159 OF 278	

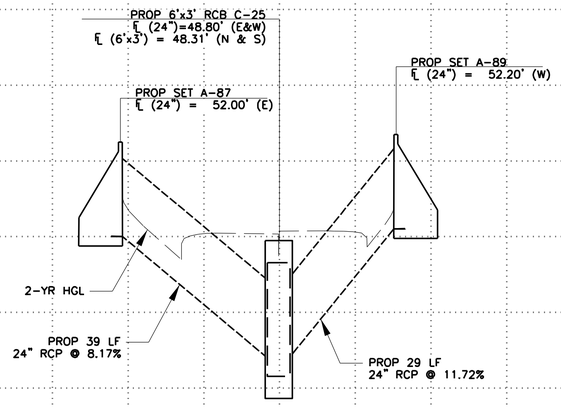
FOR CITY OF HOUSTON USE ONLY

10/23/2025
I:\Sheets\TURKEY_LAT_02.dgn

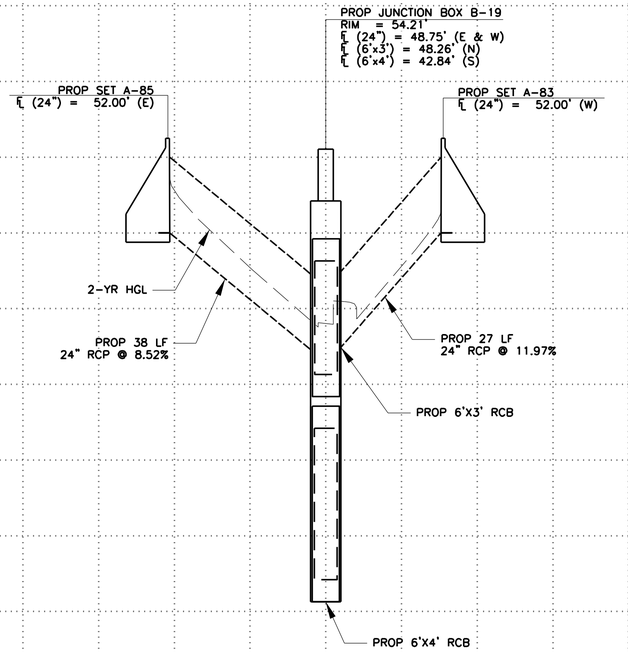
TURKEY_LAT_02.dgn



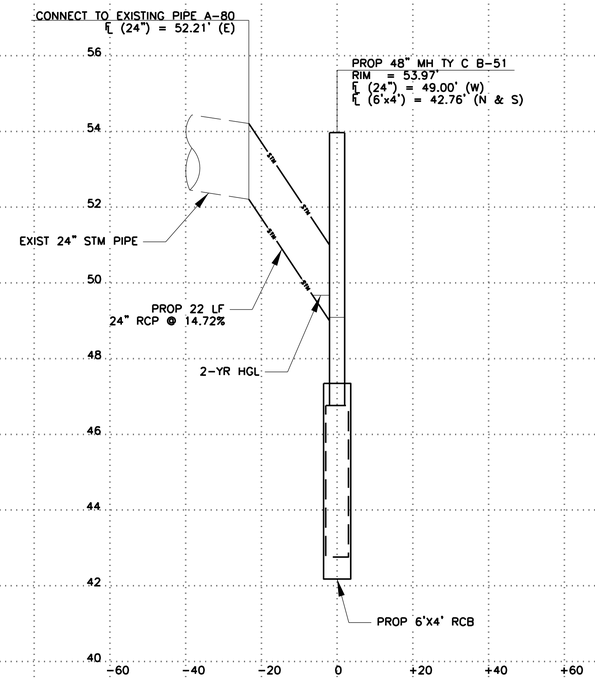
LATERAL 13
BEVIS ST
STA 118+11.00



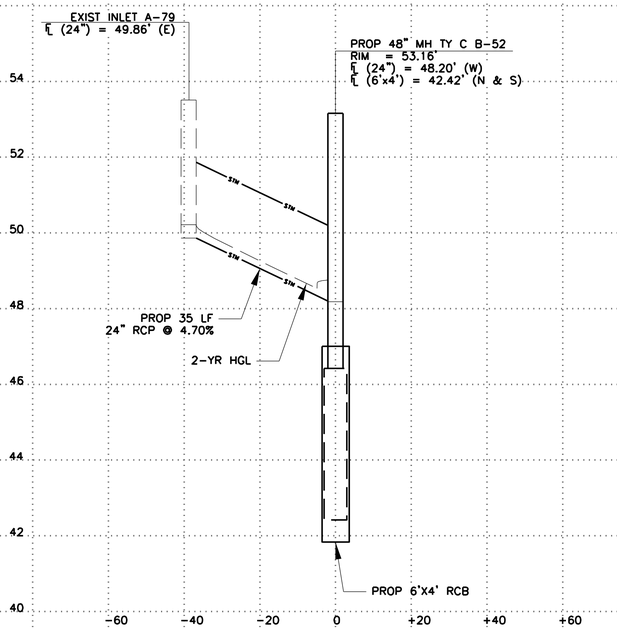
LATERAL 14
BEVIS ST
STA 117+90.00



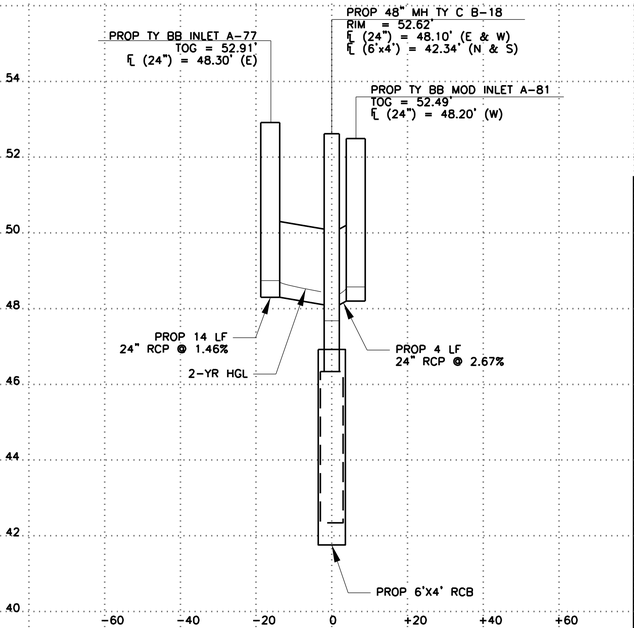
LATERAL 15
BEVIS ST
STA 117+48.00



LATERAL 16
BEVIS ST
STA 117+00.00



LATERAL 17
BEVIS ST
STA 115+15.25



LATERAL 18
BEVIS ST
STA 114+72.00

HORZ 0' 20' 40'
VERT 0' 2' 4'
SCALE IN FEET

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

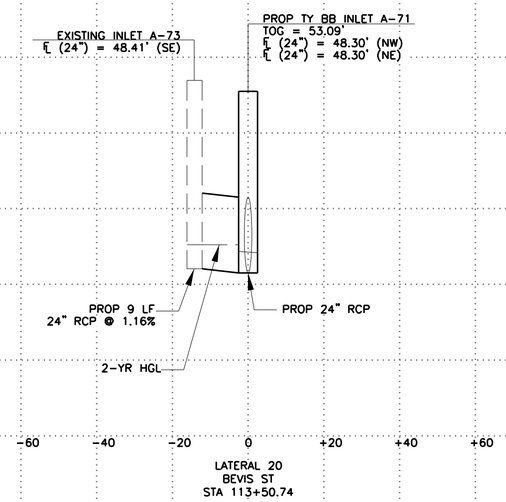
TURKEY GULLY

STORM SEWER LATERALS

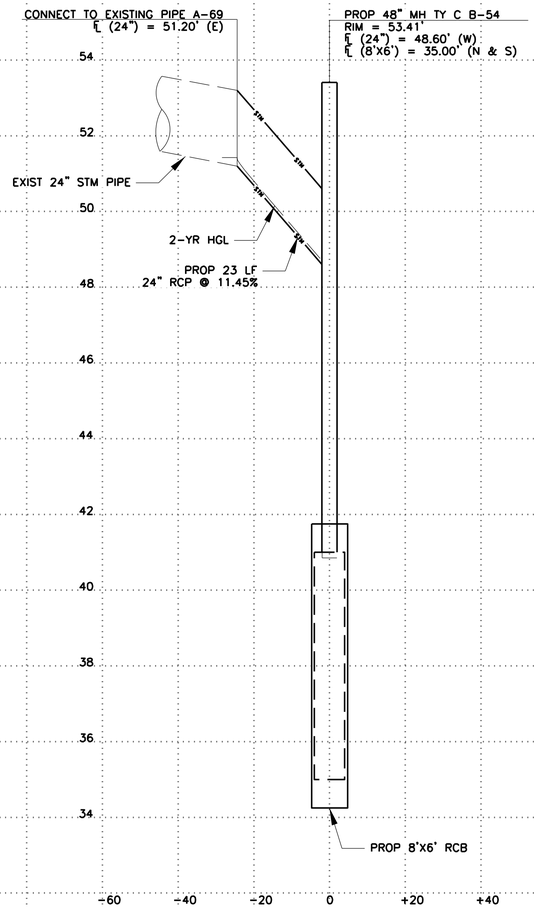
SHEET 3 OF 10

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=20' (H) & 1"=2' (V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 160 OF 278	

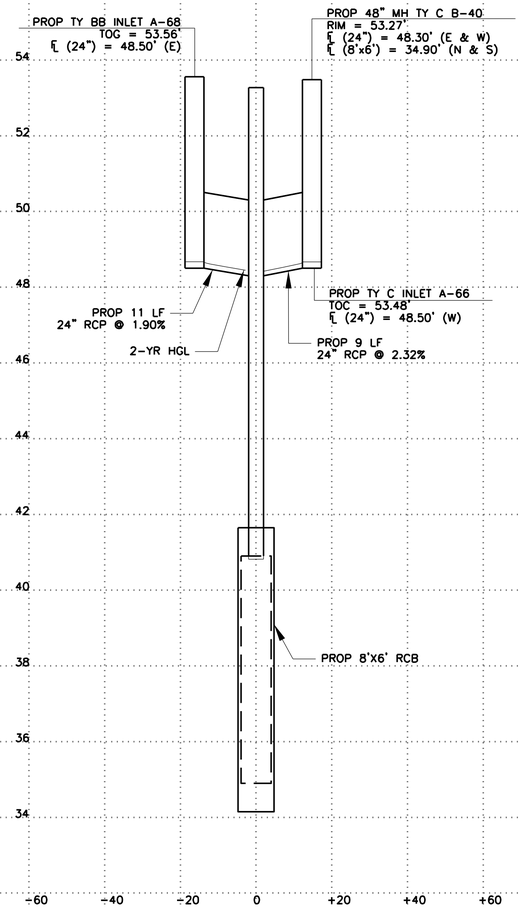
Asset E
10/23/2025
I:\Sheets\TURKEY_LAT_03.dgn
TURKEY_LAT_03.dgn



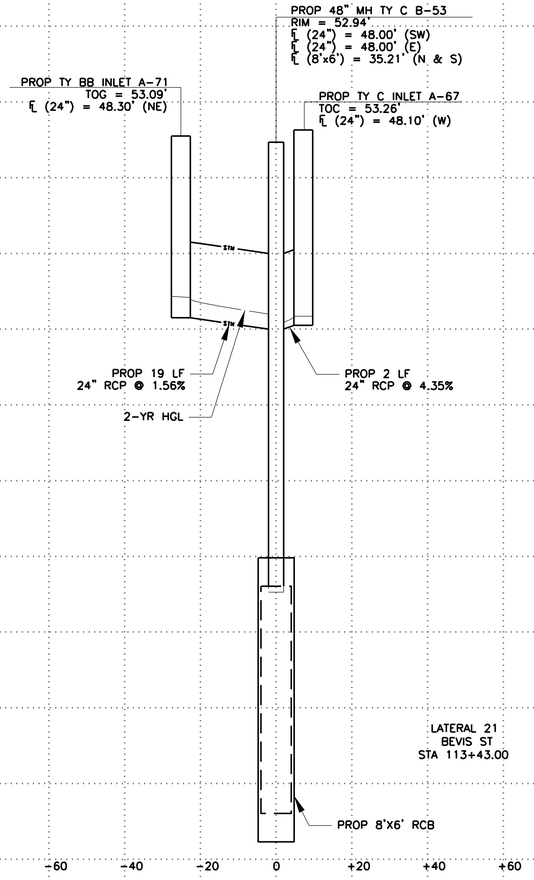
LATERAL 20
BEVIS ST
STA 113+50.74



LATERAL 22
BEVIS ST
STA 111+88.50



LATERAL 23
BEVIS ST
STA 111+05.00



LATERAL 21
BEVIS ST
STA 113+43.00

HORZ 0' 20' 40'
VERT 0' 2' 4'
SCALE IN FEET

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

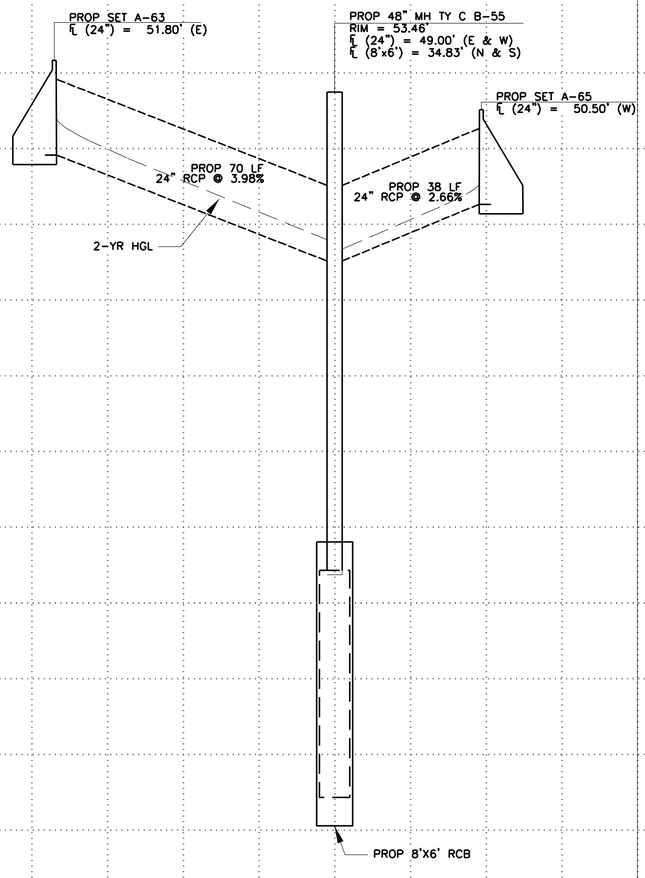
STORM SEWER LATERALS

SHEET 4 OF 10

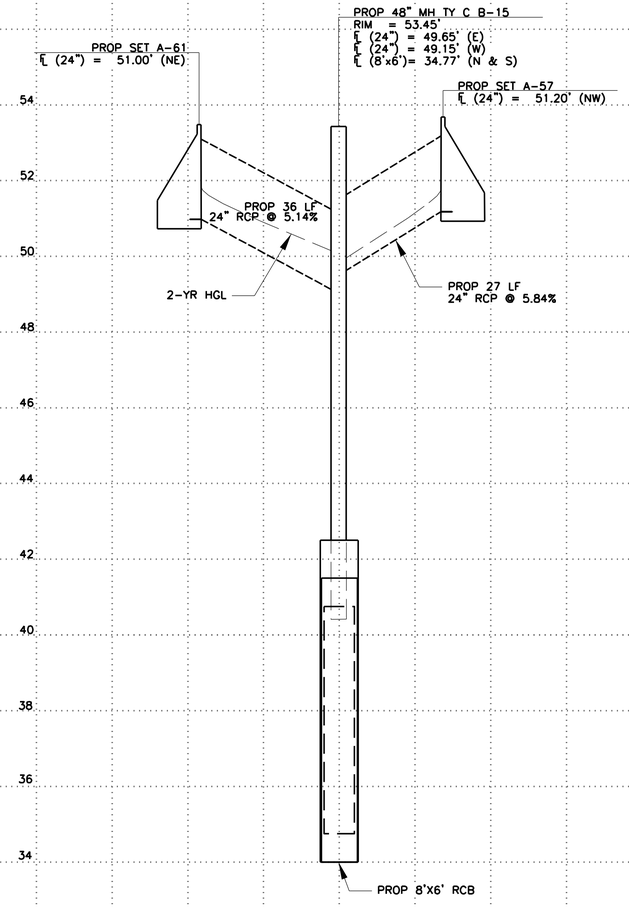
WBS NUMBER
M-410291-0001-4
DRAWING SCALE
1"=20' (H) & 1"=2' (V)
CITY OF HOUSTON PM
LOI MA
SHEET NO. 161 OF 278

FOR CITY OF HOUSTON USE ONLY

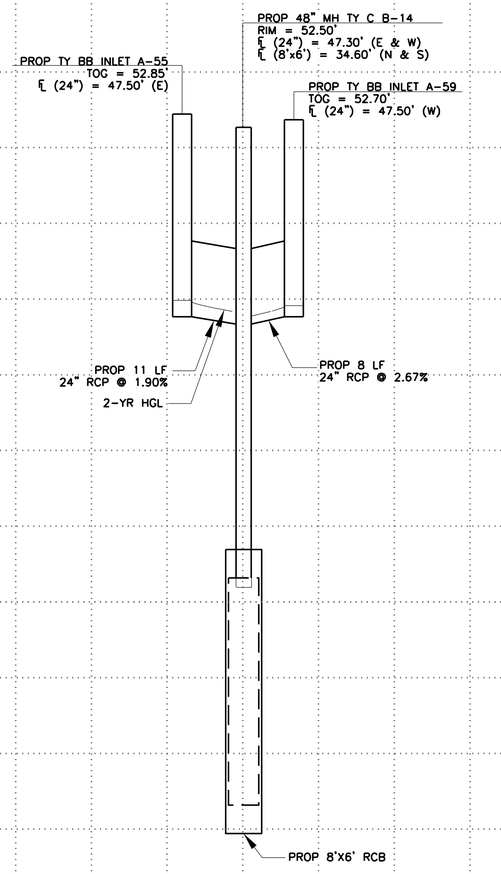
Asset E
10/23/2025
I:\Sheets\TURKEY LAT_04.dgn
TURKEY LAT_04.dgn



LATERAL 24
BEVIS ST
STA 110+53.02



LATERAL 25
BEVIS ST
STA 110+08.01



LATERAL 26
BEVIS ST
STA 108+76.99

HORZ 0' 20' 40'
VERT 0' 2' 4'
SCALE IN FEET

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

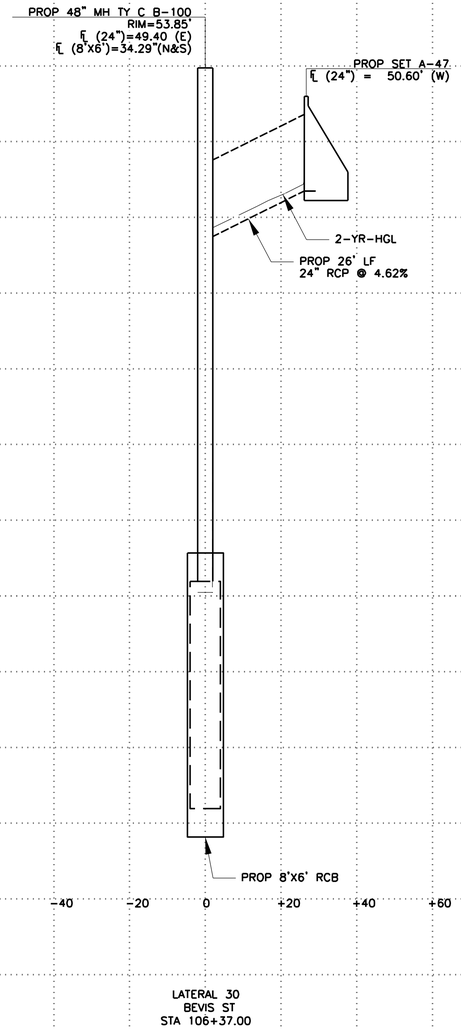
TURKEY GULLY

STORM SEWER LATERALS

SHEET 5 OF 10

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=20' (H) & 1"=2' (V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 162 OF 278	

Ascel E
10/23/2025
Sheets TURKEY_LAT_05.dgn
TURKEY_LAT_05.dgn



LATERAL 30
BEVIS ST
STA 106+37.00

HORZ 0' 20' 40'
VERT 0' 2' 4'
SCALE IN FEET

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591

TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

THESE PLANS ARE PRELIMINARY AND ARE BEING ISSUED FOR REVIEW BY PUBLIC AGENCIES AND OTHER PRELIMINARY PURPOSES. WHEN ISSUED IN FINAL FORM THEY WILL BE SEALED, SIGNED, AND DATED BY THE RESPONSIBLE ENGINEER.

RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

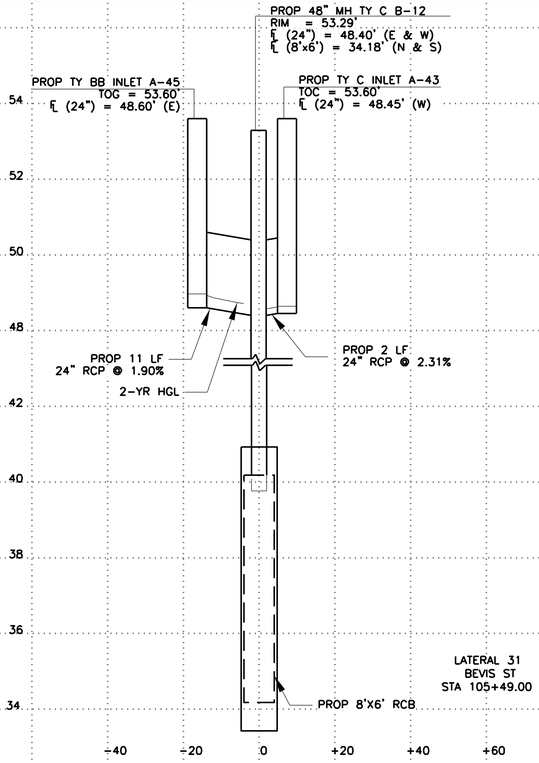
TURKEY GULLY

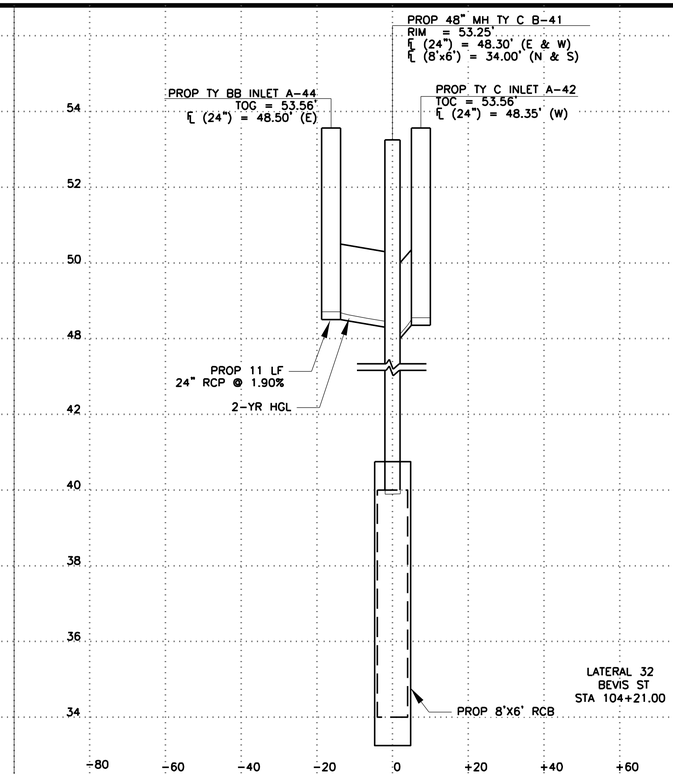
STORM SEWER LATERALS

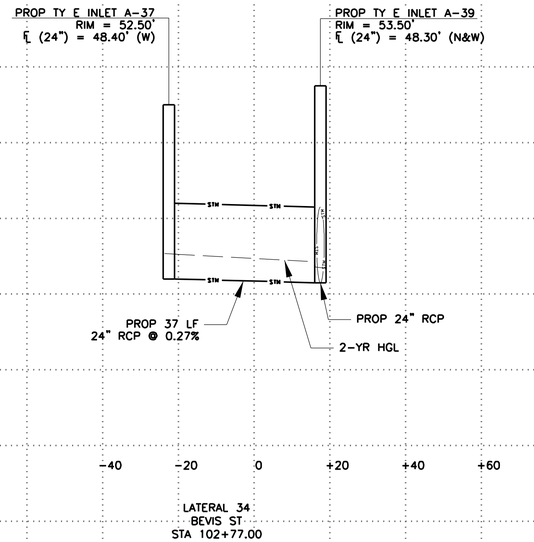
SHEET 6 OF 10

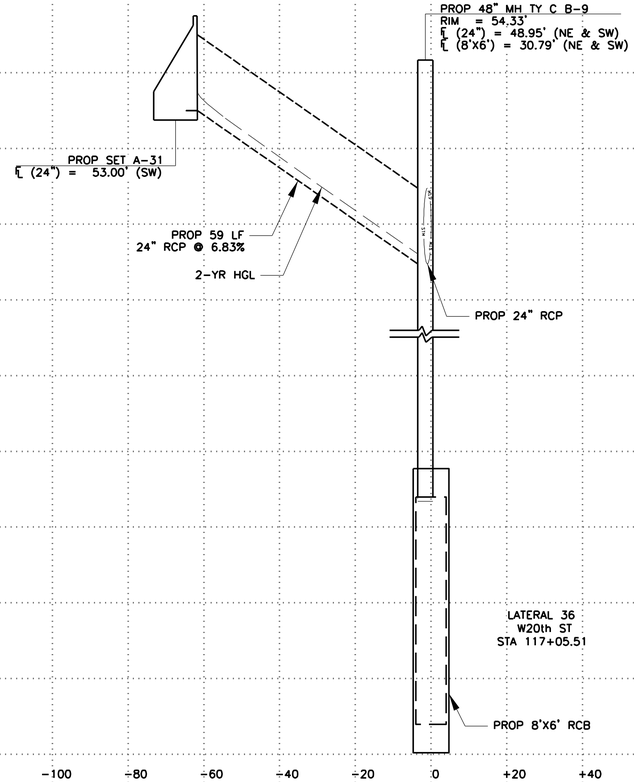
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=20' (H) 1"=2' (V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 163 OF 278	

Asset E
10/23/2025
Sheet: Turkey LAT 06.dgn
Turkey LAT 06.dgn









HORZ 0' 20' 40'
VERT 0' 2' 4'
SCALE IN FEET

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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NOT INTENDED FOR CONSTRUCTION

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

STORM SEWER LATERALS

SHEET 7 OF 10

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=20'(H) & 1"=2' (V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 164 OF 278	

10/23/2025
Sheets\TURKEY_LAT_07.dgn
TURKEY_LAT_07.dgn
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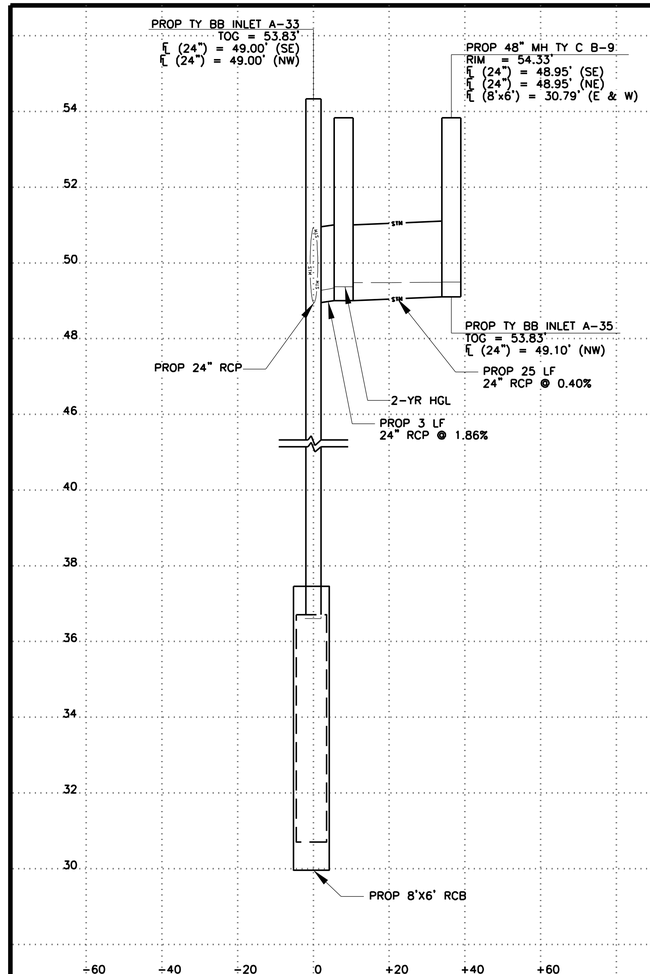
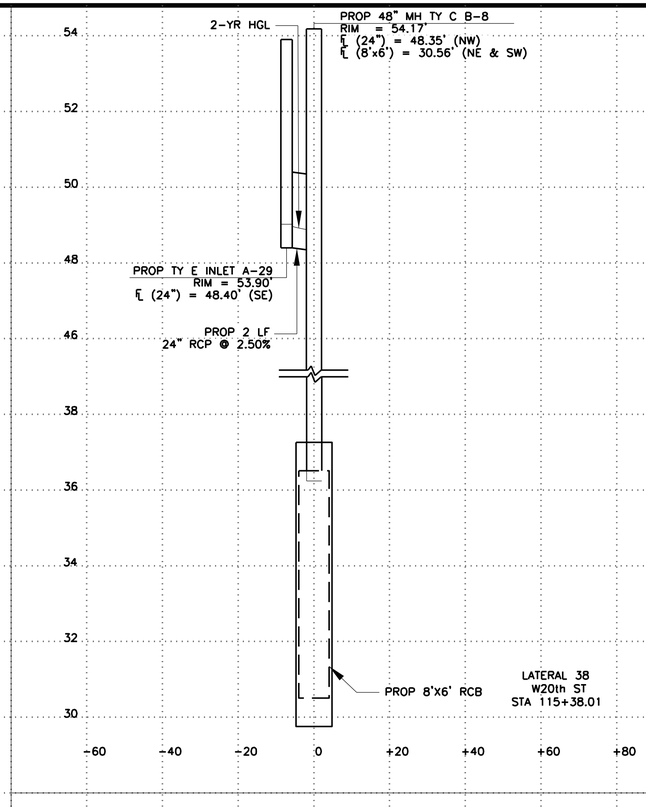
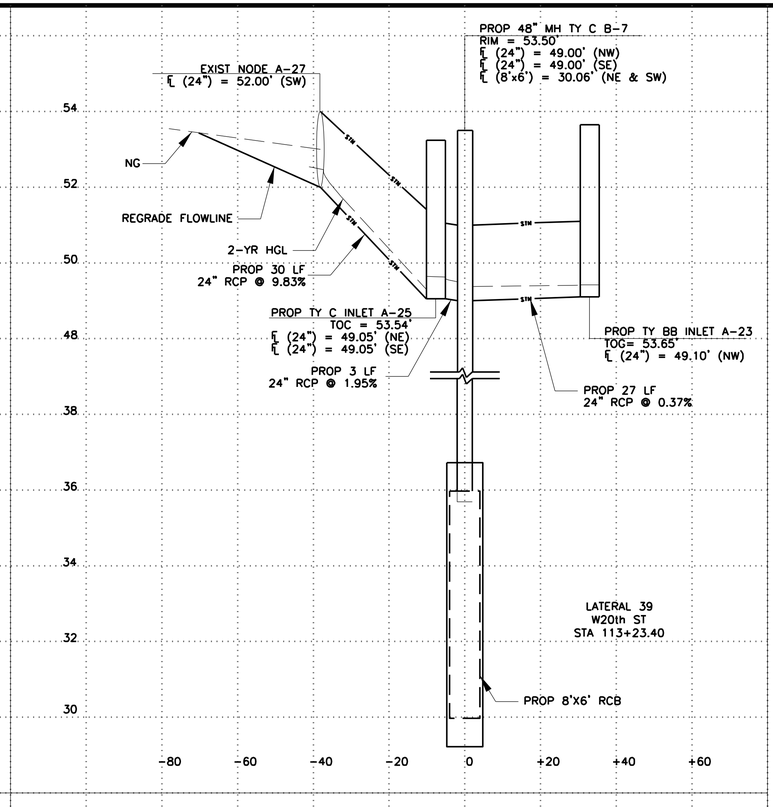


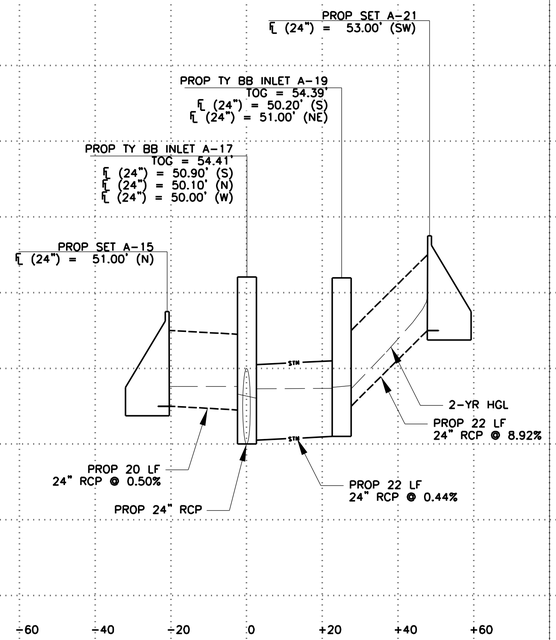
LATERAL 37
W20th ST
STA 116+47.00



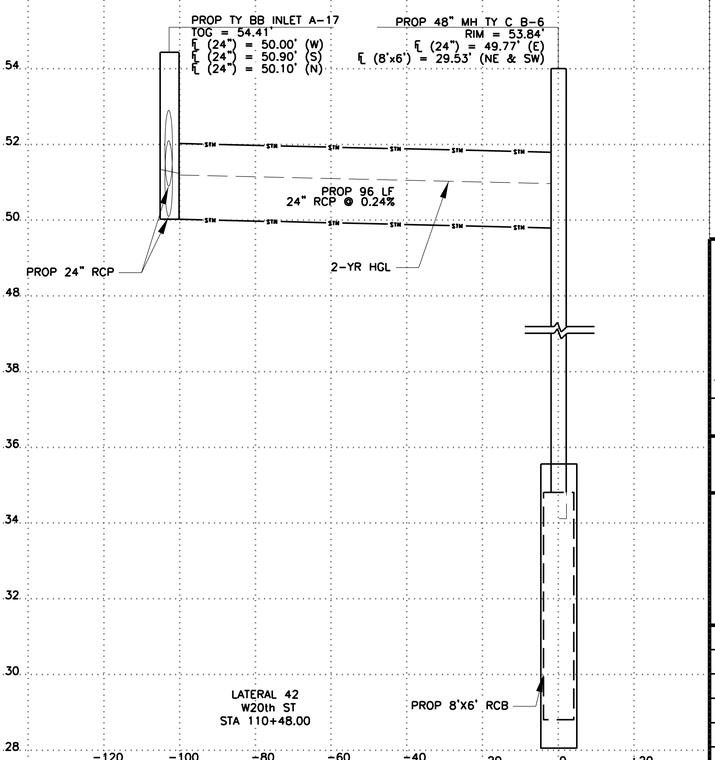
LATERAL 38
W20th ST
STA 115+38.01



LATERAL 39
W20th ST
STA 113+23.40



LATERAL 41
W19th ST
STA 110+09.00



LATERAL 42
W20th ST
STA 110+48.00

HORZ 0' 20' 40'
VERT 0' 2' 4'
SCALE IN FEET

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
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HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

STORM SEWER LATERALS

SHEET 8 OF 10

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=20' (H) 1"=2' (V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 165 OF 278	

Asset E

10/23/2025
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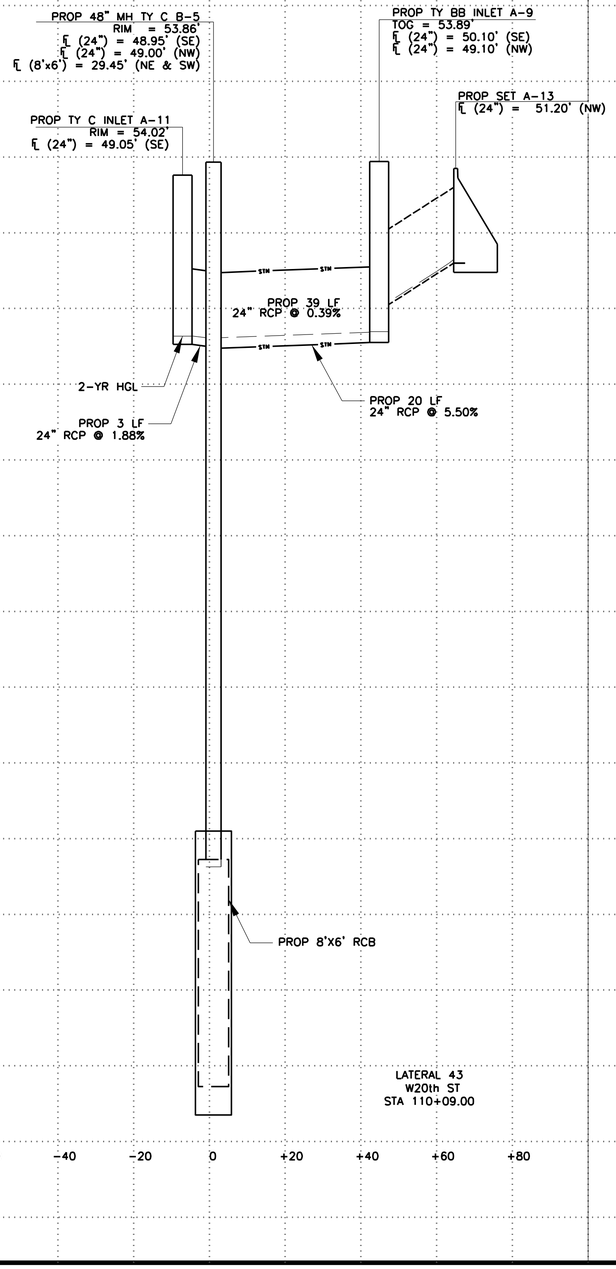
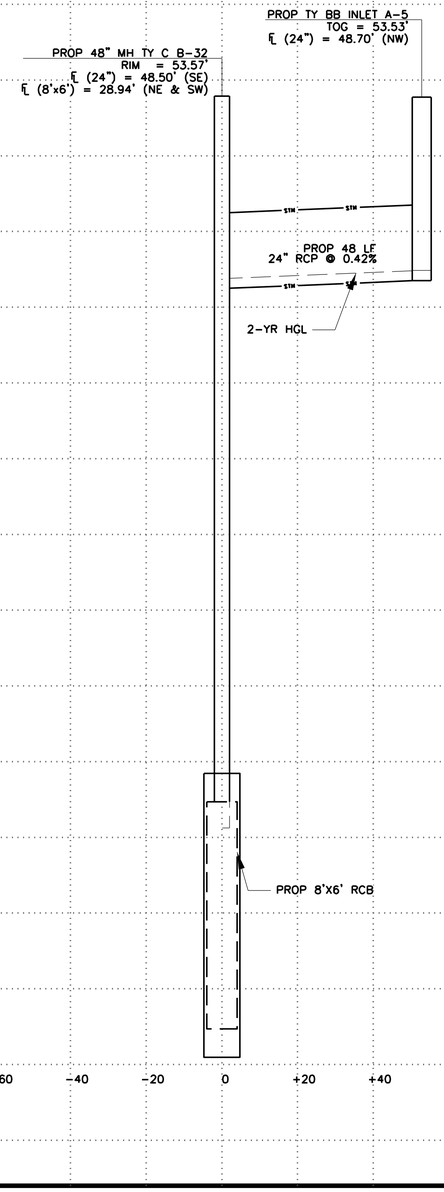
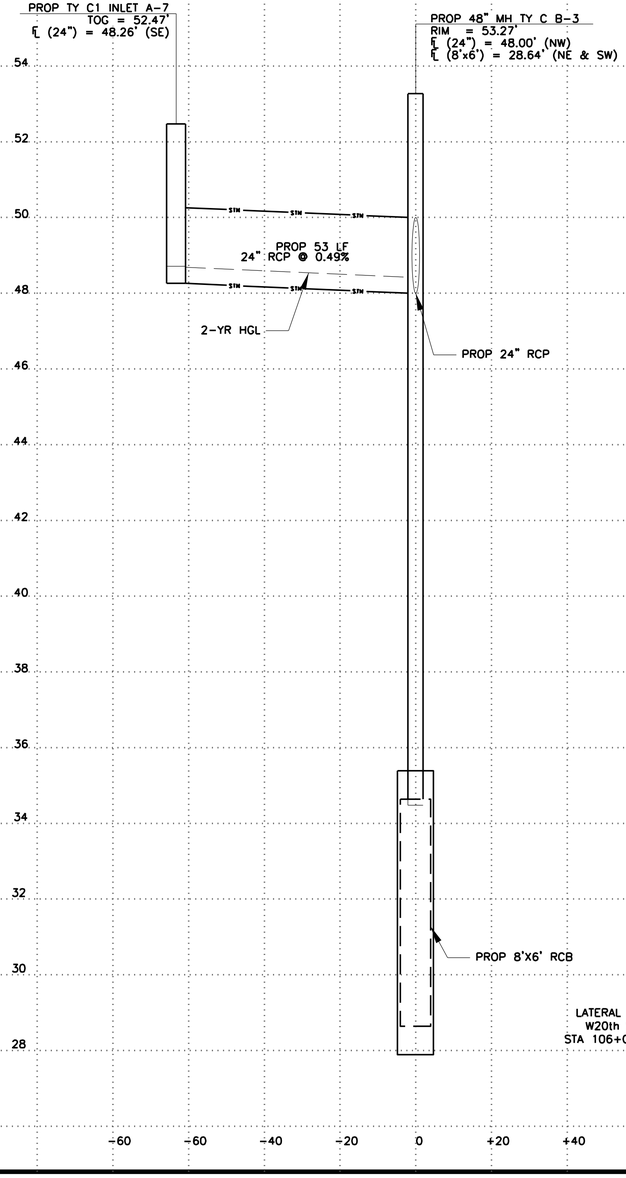
TURKEY_LAT_08.dgn







HORZ 0' 20' 40'
VERT 0' 2' 4'
SCALE IN FEET

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Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 941-5591

TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

STORM SEWER LATERALS

SHEET 9 OF 10

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=20' (H) & 1"=2' (V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 166 OF 278	

Asset E

10/23/2025
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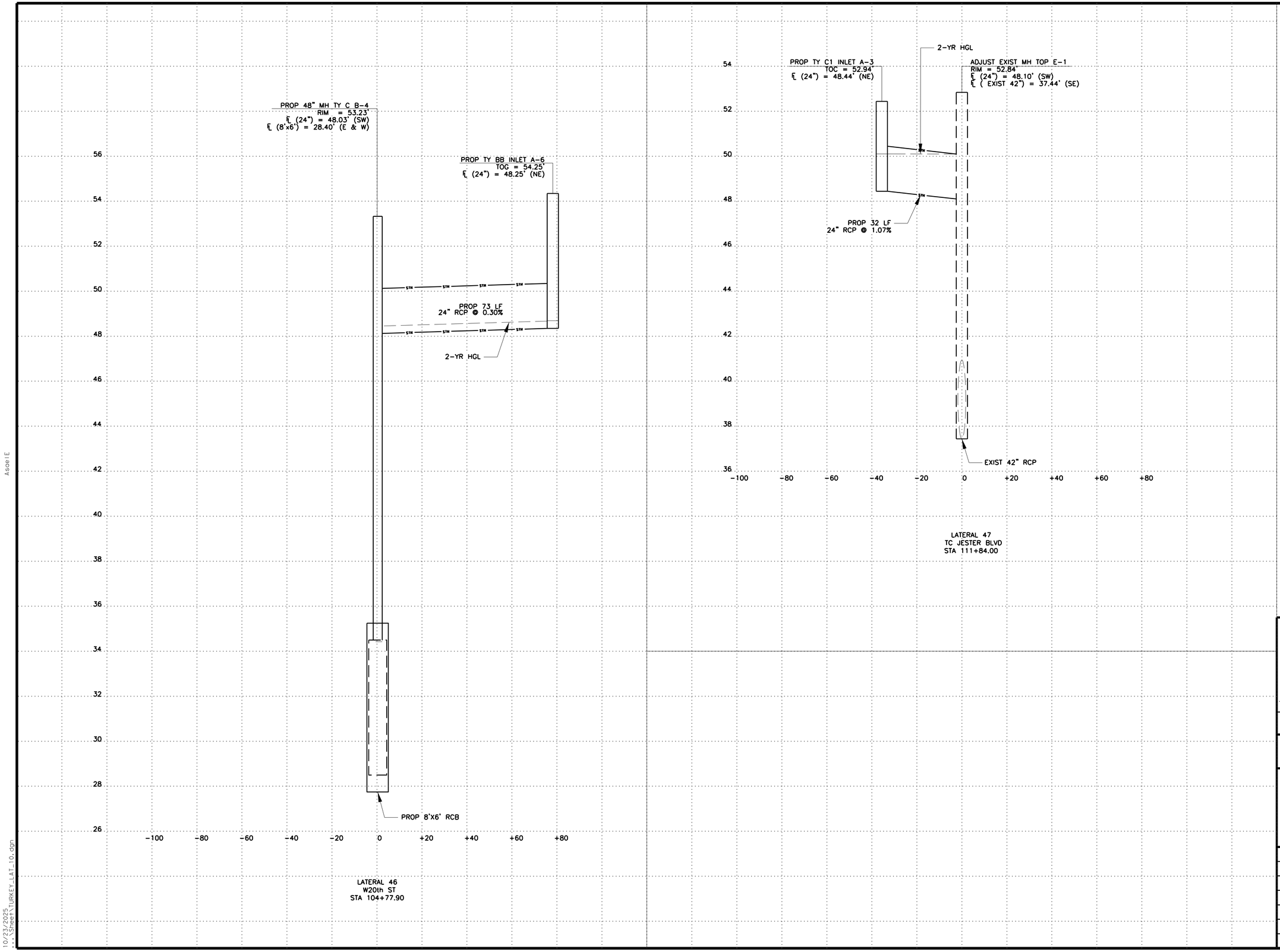
TURKEY_LAT_09.dgn



Asset E

10/23/2025
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15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591

TBPE FIRM REGISTRATION NO. F-6825

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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

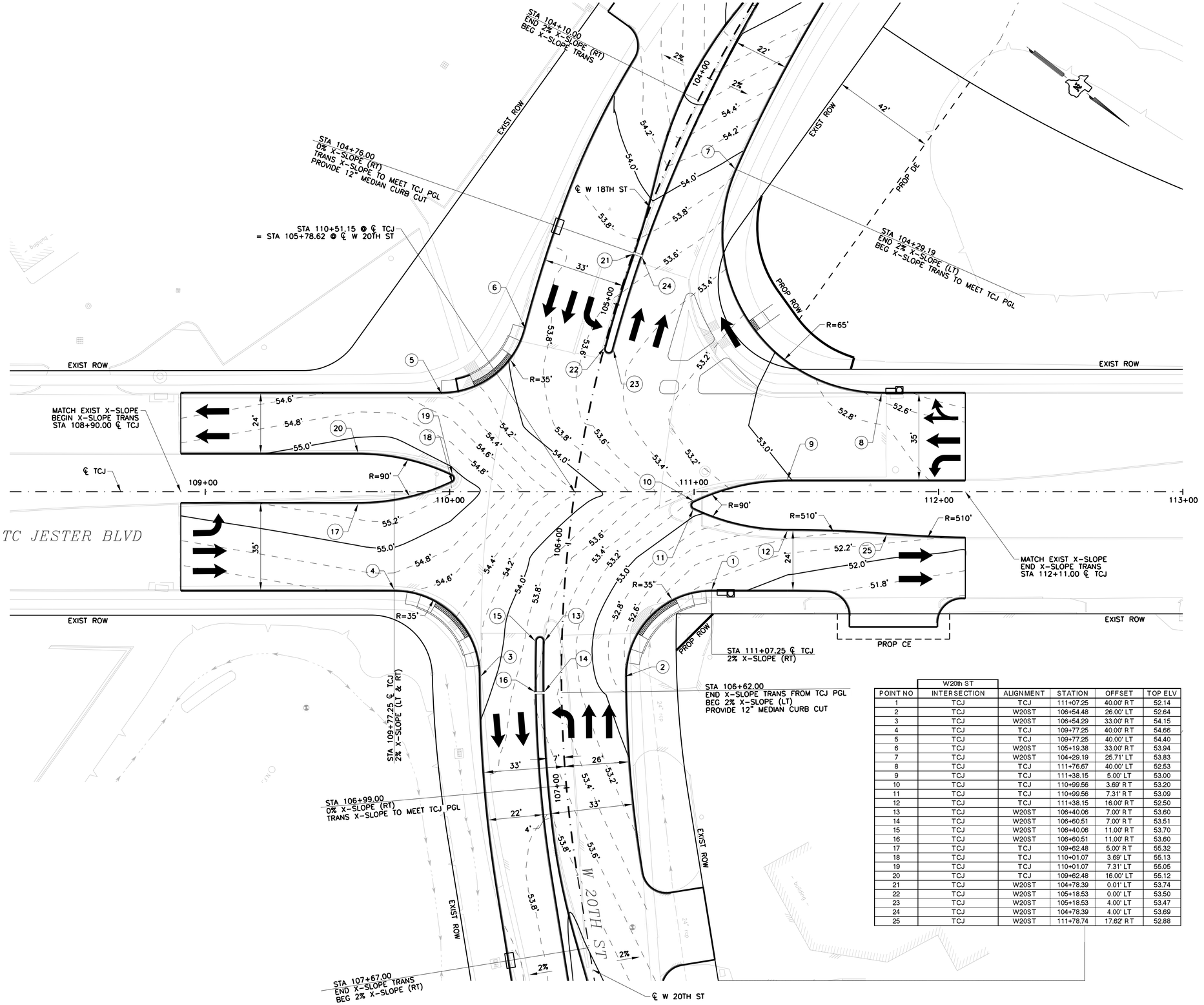
TURKEY GULLY

STORM SEWER LATERALS

SHEET 10 OF 10

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=20' (H) & 1"=2' (V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 167 OF 278	

TURKEY_LAT_10.dgn



	W20th ST				
POINT NO	INTERSECTION	ALIGNMENT	STATION	OFFSET	TOP ELV
1	TCJ	TCJ	111+07.25	40.00' RT	52.14
2	TCJ	W20ST	106+54.48	26.00' LT	52.64
3	TCJ	W20ST	106+54.29	33.00' RT	54.15
4	TCJ	TCJ	109+77.25	40.00' RT	54.66
5	TCJ	TCJ	109+77.25	40.00' LT	54.40
6	TCJ	W20ST	105+19.38	33.00' RT	53.94
7	TCJ	W20ST	104+29.19	25.71' LT	53.83
8	TCJ	TCJ	111+76.67	40.00' LT	52.53
9	TCJ	TCJ	111+38.15	5.00' LT	53.00
10	TCJ	TCJ	110+99.56	3.69' R T	53.20
11	TCJ	TCJ	110+99.56	7.31' R T	53.09
12	TCJ	TCJ	111+38.15	16.00' R T	52.50
13	TCJ	W20ST	106+40.06	7.00' R T	53.60
14	TCJ	W20ST	106+60.51	7.00' R T	53.51
15	TCJ	W20ST	106+40.06	11.00' R T	53.70
16	TCJ	W20ST	106+60.51	11.00' R T	53.60
17	TCJ	TCJ	109+62.48	5.00' R T	55.32
18	TCJ	TCJ	110+01.07	3.69' LT	55.13
19	TCJ	TCJ	110+01.07	7.31' LT	55.05
20	TCJ	TCJ	109+62.48	16.00' LT	55.12
21	TCJ	W20ST	104+78.39	0.01' LT	53.74
22	TCJ	W20ST	105+18.53	0.00' LT	53.50
23	TCJ	W20ST	105+18.53	4.00' LT	53.47
24	TCJ	W20ST	104+78.39	4.00' LT	53.69
25	TCJ	W20ST	111+78.74	17.62' R T	52.88

LEGEND:

TRAFFIC FLOW

PROP CONC MEDIAN/ISLAND

NOTES:

1. ELEVATIONS SHOWN ARE TO THE TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
2. STATION AND OFFSET ARE TO FOC UNLESS OTHERWISE NOTED.
3. ALL STATIONS ARE REFERENCED TO W20th ST UNLESS OTHERWISE NOTED.

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.

Date

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

0' 20' 40'

SCALE IN FEET

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591

TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

INTERSECTION LAYOUT

E TC JESTER BLVD
& W 20TH ST

SHEET 1 OF 6

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=20'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 168 OF 278	

10/26/2025
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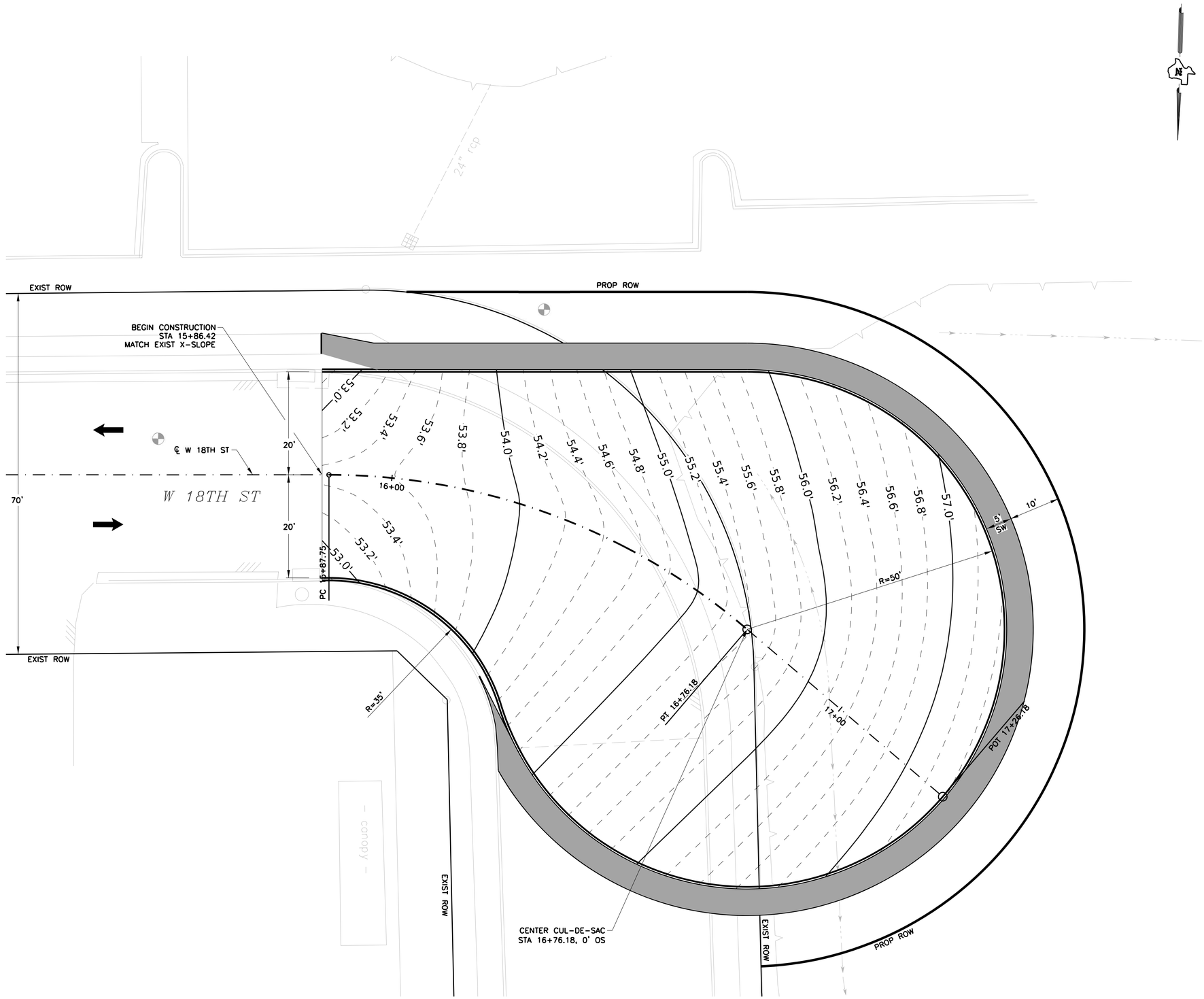
TG-INTSCTION-01.dgn



LEGEND:

- TRAFFIC FLOW
- PROP CONC MEDIAN/ISLAND
- PROP CONC SIDEWALK

NOTES:

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Date

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0' 10' 20'

SCALE IN FEET

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591

TBPE FIRM REGISTRATION NO. F-6825

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

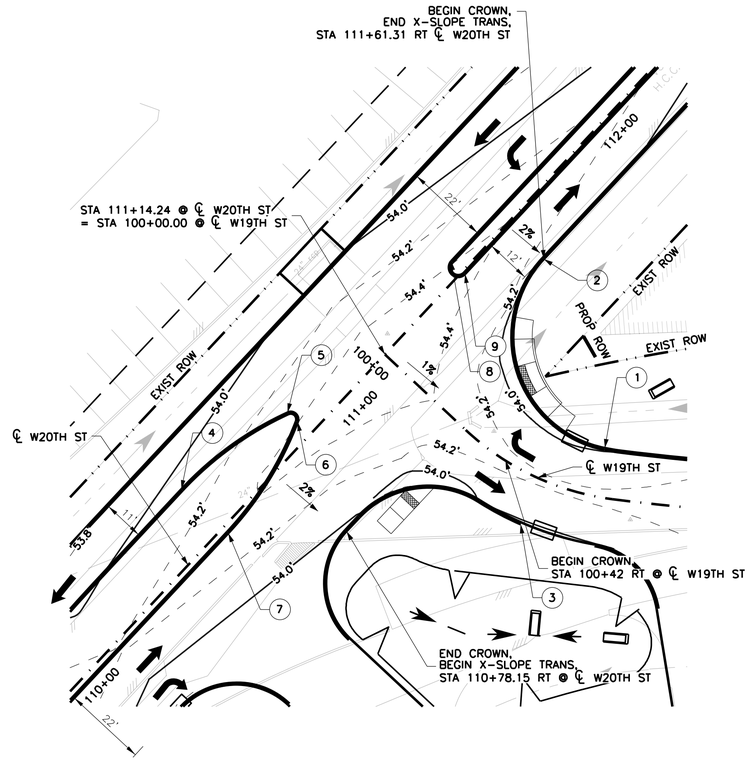
INTERSECTION LAYOUT

W 18TH ST

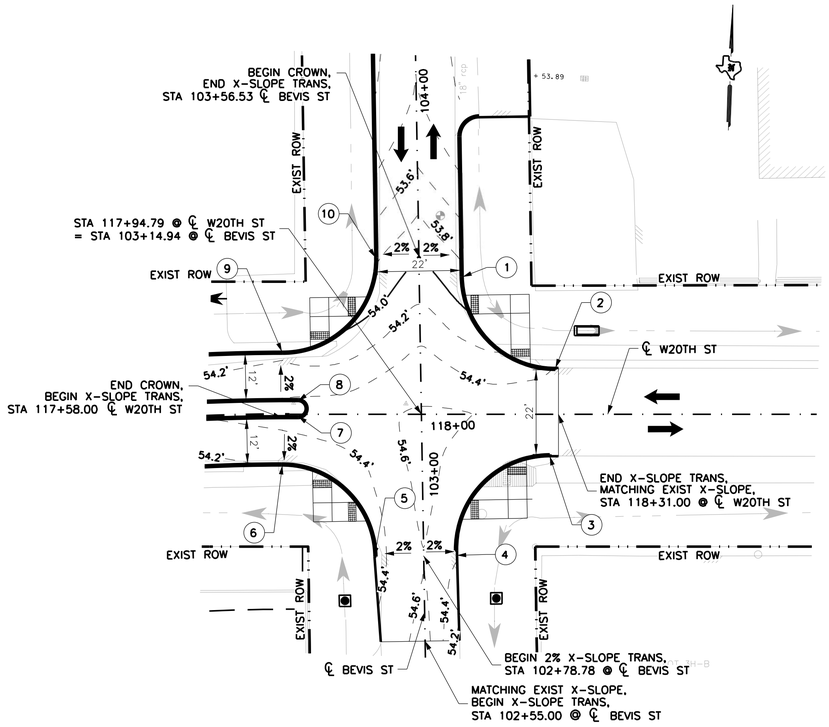
SHEET 2 OF 6

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **169** OF **278**	

Asset IE
10/23/2025
...Sheet\TG-INTSCTION-02.dgn
TG-INTSCTION-02.dgn



	W19th ST				
POINT NO	INTERSECTION	ALIGNMENT	STATION	OFFSET	TOP ELV
1	W20th ST	W19th ST	110+68.17	13.00' LT	53.99
2	W20th ST	W20th ST	111+61.31	13.50' RT	54.13
3	W20th ST	W19th ST	110+52.95	13.00' RT	53.99
4	W20th ST	W20th ST	110+51.55	15.00' LT	54.09
5	W20th ST	W20th ST	110+85.31	8.35' LT	54.32
6	W20th ST	W20th ST	110+85.31	4.65' LT	54.39
7	W20th ST	W20th ST	110+51.55	2.00' RT	54.33
8	W20th ST	W20th ST	111+44.24	4.00' LT	54.40
9	W20th ST	W20th ST	111+44.24	1.00' RT	54.46



	BEVIS ST				
POINT NO	INTERSECTION	ALIGNMENT	STATION	OFFSET	TOP ELV
1	W20th ST	BEVIS ST	103+51.05	11.00' RT	53.86
2	W20th ST	W20th ST	118+31.00	12.20' LT	54.41
3	W20th ST	W20th ST	118+28.69	11.10' RT	54.44
4	W20th ST	BEVIS ST	102+78.78	8.81' RT	54.42
5	W20th ST	BEVIS ST	102+77.55	13.00' LT	54.34
6	W20th ST	W20th ST	117+58.00	13.50' RT	54.21
7	W20th ST	W20th ST	117+62.22	0.50' RT	54.49
8	W20th ST	W20th ST	117+62.22	3.50' LT	54.43
9	W20th ST	W20th ST	117+56.00	16.50' LT	54.15
10	W20th ST	BEVIS ST	103+56.53	11.50 LT	53.78

LEGEND:

TRAFFIC FLOW

PROP CONC MEDIAN/ISLAND

NOTES:

1. ELEVATIONS SHOWN ARE TO THE TOP OF PAVEMENT UNLESS OTHERWISE NOTED.
2. STATION AND OFFSET ARE TO FOC UNLESS OTHERWISE NOTED.
3. ALL STATIONS ARE REFERENCED TO W20th ST UNLESS OTHERWISE NOTED.

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Signature valid for six months.

Date

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Signature valid for six months.

Date

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

0' 20' 40'

SCALE IN FEET

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591

TBPE FIRM REGISTRATION NO. F-6825

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

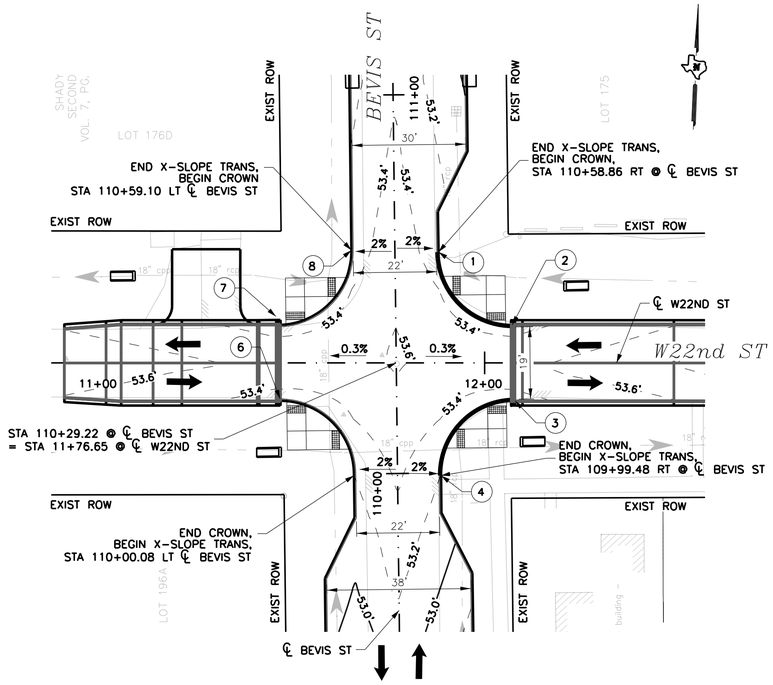
INTERSECTION LAYOUTS
W 19TH ST
& BEVIS ST

SHEET 3 OF 6

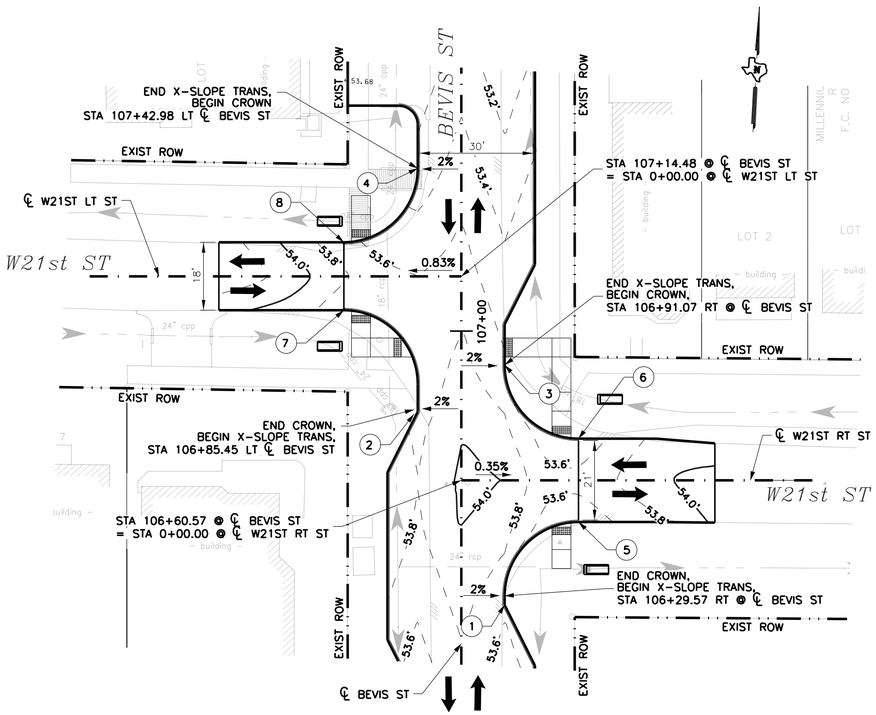
WBS NUMBER	M-430100-0020-4
DRAWING SCALE	
CITY OF HOUSTON PM	LOI MA
SHEET NO.	170 OF 278

FOR CITY OF HOUSTON USE ONLY

Asset E
10/23/2025
...\Sheet\TG-INTSECTION-03.dgn
TG-INTSECTION-03.dgn



	W22nd ST				
POINT NO	INTERSECTION	ALIGNMENT	STATION	OFFSET	TOP ELV
1	BEVIS ST	BEVIS ST	110+58.86	11.50' RT	53.31
2	BEVIS ST	W22nd ST	12+07.31	10.00 LT	53.34
3	BEVIS ST	W22nd ST	12+08.00	10.00' RT	53.34
4	BEVIS ST	BEVIS ST	109+99.48	11.50' RT	53.20
5	BEVIS ST	BEVIS ST	110+00.09	11.50' LT	53.20
6	BEVIS ST	W22nd ST	11+46.00	10.00' RT	53.34
7	BEVIS ST	W22nd ST	11+45.44	10.01' LT	53.34
8	BEVIS ST	BEVIS ST	110+59.10	11.50 LT	53.30



	W21st ST				
POINT NO	INTERSECTION	ALIGNMENT	STATION	OFFSET	TOP ELV
1	BEVIS ST	BEVIS ST	106+27.68	11.50' RT	53.63
2	BEVIS ST	BEVIS ST	106+78.70	11.50' LT	53.71
3	BEVIS ST	BEVIS ST	106+91.07	11.50' RT	53.63
4	BEVIS ST	BEVIS ST	107+42.98	11.50' LT	53.27
5	BEVIS ST	W21th RT ST	00+31.00	11.00 RT	53.46
6	BEVIS ST	W21th RT ST	00+31.00	11.00 LT	53.46
7	BEVIS ST	W21th LT ST	00+31.00	9.00 RT	53.55
8	BEVIS ST	W21th LT ST	00+31.00	9.00 LT	53.65

LEGEND:

TRAFFIC FLOW

PROP CONC MEDIAN/ISLAND

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VERIFICATION OF PRIVATE UTILITY LINES

Date

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Signature valid for six months.

Date

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Date

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0' 20' 40'

SCALE IN FEET

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591

TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

INTERSECTION LAYOUTS
W 21ST ST
& W 22ND ST

SHEET 4 OF 6

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-430100-0020-4	
DRAWING SCALE	
1"=20'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 171 OF 278	

10/23/2025
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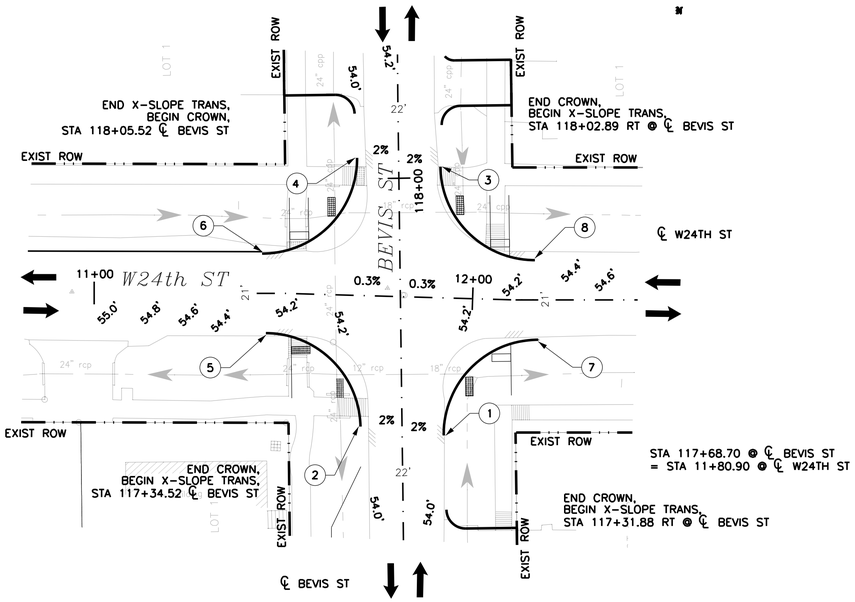
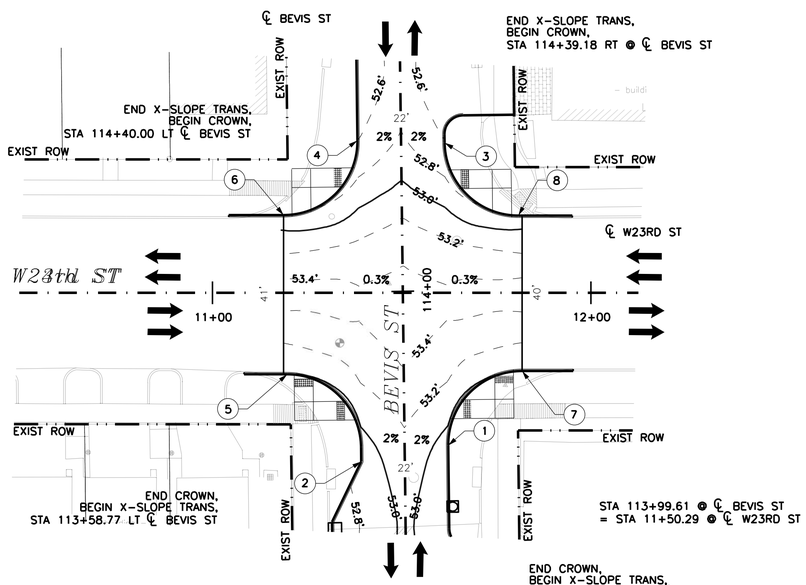


	W24th ST				
POINT NO	INTERSECTION	ALIGNMENT	STATION	OFFSET	TOP ELV
1	BEVIS ST	BEVIS ST	117+31.88	11.50' RT	53.99
2	BEVIS ST	BEVIS ST	117+34.52	11.50' LT	54.01
3	BEVIS ST	BEVIS ST	118+02.89	11.50' RT	53.98
4	BEVIS ST	BEVIS ST	118+05.52	11.50' LT	53.97
5	BEVIS ST	W24th ST	11+45.40	11.00' RT	54.11
6	BEVIS ST	W24th ST	11+44.35	11.00' LT	54.13
7	BEVIS ST	W24th ST	12+17.37	11.00' RT	54.13
8	BEVIS ST	W24th ST	12+16.45	11.00' LT	54.12



	W23rd ST				
POINT NO	INTERSECTION	ALIGNMENT	STATION	OFFSET	TOP ELV
1	BEVIS ST	BEVIS ST	113+59.13	11.50' RT	52.92
2	BEVIS ST	BEVIS ST	113+58.98	11.50' LT	52.92
3	BEVIS ST	BEVIS ST	114+39.18	11.50' RT	52.61
4	BEVIS ST	BEVIS ST	114+40.00	11.50' LT	52.60
5	BEVIS ST	W23rd ST	11+18.00	21.50' RT	53.06
6	BEVIS ST	W23rd ST	11+18.81	20.52' LT	52.88
7	BEVIS ST	W23rd ST	11+81.78	20.60' RT	53.02
8	BEVIS ST	W23rd ST	11+80.81	20.40' LT	52.90

LEGEND:

TRAFFIC FLOW

PROP CONC MEDIAN/ISLAND

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0' 20' 40'

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TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

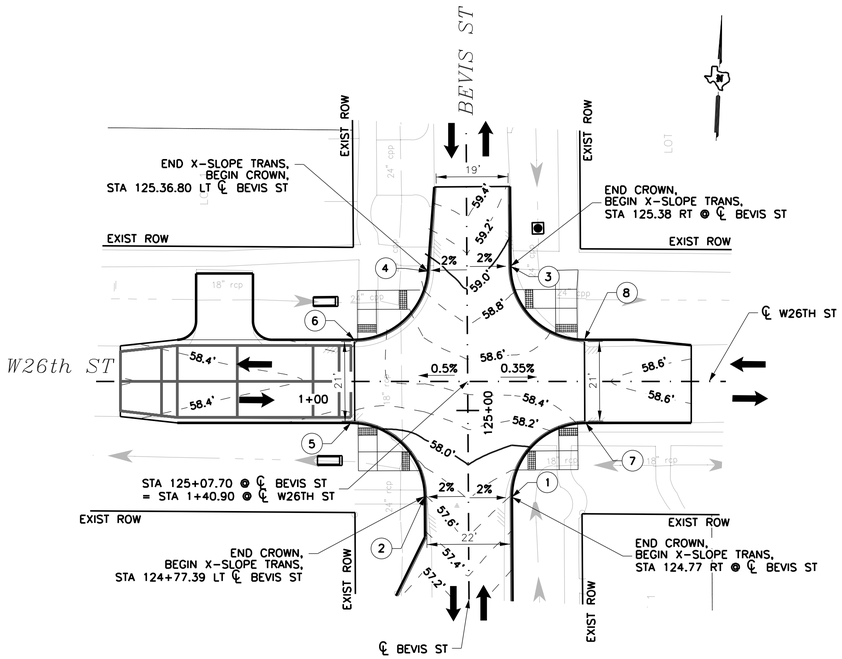
TURKEY GULLY

INTERSECTION LAYOUTS
W 23RD ST
& W 24TH ST

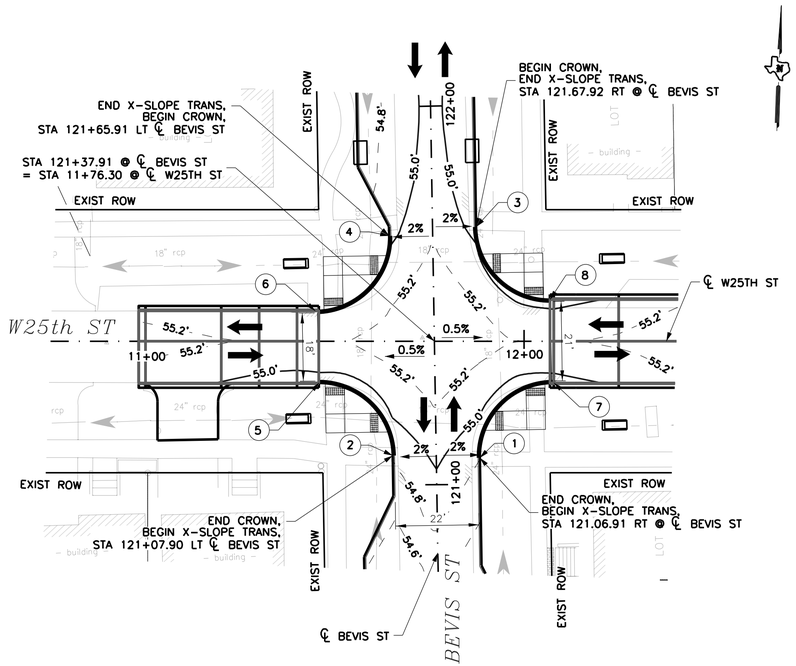
SHEET 5 OF 6

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-430100-0020-4	
DRAWING SCALE	
1"=20'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 172 OF 278	

10/23/2025
...\Sheet\TG-INTSECTION-05.dgn
Asset ID
TG-INTSECTION-05.dgn



	W26th ST				
POINT NO	INTERSECTION	ALIGNMENT	STATION	OFFSET	TOP ELV
1	BEVIS ST	BEVIS ST	124+77.00	11.50' RT	57.58
2	BEVIS ST	BEVIS ST	124+77.39	11.50' LT	57.59
3	BEVIS ST	BEVIS ST	125+38.00	11.50' RT	58.60
4	BEVIS ST	BEVIS ST	125+36.80	11.50' LT	55.90
5	BEVIS ST	W26th ST	1+10.09	11.00' RT	58.15
6	BEVIS ST	W26th ST	1+10.97	11.00' LT	55.16
7	BEVIS ST	W26th ST	1+72.09	11.00' RT	58.47
8	BEVIS ST	W26th ST	1+71.72	11.00' LT	55.47



	W25th ST				
POINT NO	INTERSECTION	ALIGNMENT	STATION	OFFSET	TOP ELV
1	BEVIS ST	BEVIS ST	121+06.91	11.50' RT	54.81
2	BEVIS ST	BEVIS ST	121+07.90	11.50' LT	54.82
3	BEVIS ST	BEVIS ST	121+67.92	11.50' RT	54.94
4	BEVIS ST	BEVIS ST	121+65.91	11.50' LT	54.96
5	BEVIS ST	W25th ST	11+45.79	11.00' RT	54.95
6	BEVIS ST	W25th ST	11+44.86	8.00' LT	55.00
7	BEVIS ST	W25th ST	12+07.80	11.00' RT	54.95
8	BEVIS ST	W25th ST	12+06.82	11.00' LT	54.95

LEGEND:

TRAFFIC FLOW

PROP CONC MEDIAN/ISLAND

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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

INTERSECTION LAYOUTS
W 25TH ST
& W 26TH ST

SHEET 6 OF 6

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-430100-0020-4	
DRAWING SCALE	
1"=20'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 173 OF 278	

Asset ID

10/23/2025
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DRIVEWAY NO.	DRIVEWAY TABLE																				
	DWY TYPE			ALIGNMENT	CENTERLINE STATION	STATION OFFSET	DRIVEWAY AREA (SY)	DRIVEWAY WIDTH	DRIVEWAY LENGTH	CURB RETURN RADIUS		ELEVATION				LENGTH OF DRIVEWAY		TCE		SLOPE		
	CONCRETE	COMMERCIAL	RESIDENTAIL							RADIUS (R1)	RADIUS (R2)	ELE. @ PT "A"	EL. @ PT "B"	EL. @ PT "C"	DELTA ELEVATION	L1	L3	X	Y	S1	S2	S3
							SF	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT			
R5	X			W 19TH ST	101+05.71	13.0	25	36	23	20.0	20.0	54.21	54.98		0.77	2.98	14.60	N/A	N/A	2.01%	2.00%	1.58%
R7	X	X		BEVIS ST	104+03.09	11.0	43	20	19	5.0	5.0	53.18	53.91		0.73	13.01	0.72	N/A	N/A	4.71%	2.00%	2.00%
R8	X	X		BEVIS ST	104+50.00	11.0	67	32	19	5.0	5.0	53.25	54.69	54.70	1.44	13.00	0.73	N/A	N/A	10.00%	2.00%	6.58%
L6	X	X		BEVIS ST	104+89.65	11.0	211	100	19	5.0	5.0	53.40	54.71		1.31	13.01	0.99	N/A	N/A	9.18%	2.00%	2.00%
R9	X	X		BEVIS ST	105+22.19	11.0	67	32	19	5.0	5.0	53.28	54.51	54.52	1.24	13.00	0.87	N/A	N/A	8.63%	1.96%	2.26%
L7	X		X	BEVIS ST	105+78.97	11.0	65	31	19	5.0	5.0	53.30	54.26		0.96	13.00	1.00	N/A	N/A	6.43%	2.00%	2.00%
L8	X		X	BEVIS ST	107+65.53	11.0	26	12	19	5.0	5.0	53.12	53.67		0.56	13.00	1.00	N/A	N/A	3.37%	2.00%	2.00%
L9	X		X	BEVIS ST	107+87.31	11.0	26	12	19	5.0	5.0	52.96	53.63		0.67	13.00	1.00	N/A	N/A	4.20%	2.00%	2.00%
L10	X		X	BEVIS ST	108+10.00	11.0	28	13	19	5.0	5.0	52.80	53.72		0.92	13.00	1.00	N/A	N/A	6.13%	2.00%	2.00%
L11	X		X	BEVIS ST	108+33.30	11.0	30	14	19	5.0	5.0	52.64	53.71		1.07	13.00	1.00	N/A	N/A	7.33%	2.00%	2.00%
R10	X		X	BEVIS ST	108+43.13	11.0	39	18	19	5.0	5.0	52.57	53.56		0.99	13.00	1.00	N/A	N/A	6.70%	2.00%	2.00%
L12	X		X	BEVIS ST	108+57.15	11.0	30	14	19	5.0	5.0	52.48	53.73		1.25	13.00	1.00	N/A	N/A	8.68%	2.00%	2.00%
L13	X		X	BEVIS ST	108+96.90	11.0	39	18	19	5.0	5.0	52.50	53.81		1.31	13.00	1.00	N/A	N/A	9.18%	2.00%	2.00%
L14	X		X	BEVIS ST	111+51.45	11.0	34	16	19	5.0	4.5	53.31	54.40		1.09	13.00	1.00	N/A	N/A	7.47%	2.00%	2.00%
L15	X		X	BEVIS ST	111+76.53	11.0	34	16	19	4.5	4.5	53.39	54.32		0.92	13.00	1.00	N/A	N/A	6.18%	2.00%	2.00%
L16	X		X	BEVIS ST	112+01.57	11.0	34	16	19	4.5	5.0	53.30	54.34		1.04	13.00	1.00	N/A	N/A	7.10%	2.00%	2.00%
L17	X		X	BEVIS ST	112+23.71	11.0	20	9	19	5.0	5.0	53.21	54.35		1.14	13.00	1.00	N/A	N/A	7.82%	2.00%	2.00%
R11	X	X		BEVIS ST	113+15.19	11.0	72	34	19	5.0	5.0	52.87	54.02		1.15	13.00	1.00	N/A	N/A	7.93%	2.00%	2.00%
R12	X		X	BEVIS ST	114+54.30	11.0	34	16	19	5.0	4.0	52.48	53.32		0.84	13.00	1.00	N/A	N/A	5.53%	2.00%	2.00%
R13	X		X	BEVIS ST	114+77.87	11.0	34	16	19	4.0	4.0	52.54	53.53		0.99	13.00	1.00	N/A	N/A	6.69%	2.00%	2.00%
R14	X		X	BEVIS ST	115+01.65	11.0	34	16	19	4.0	4.0	52.87	53.93		1.06	13.00	1.00	N/A	N/A	7.23%	2.00%	2.00%
L18	X		X	BEVIS ST	115+15.05	11.0	35	16	19	5.0	5.0	53.04	53.53		0.49	13.00	1.00	N/A	N/A	2.83%	2.00%	2.04%
R15	X		X	BEVIS ST	115+25.33	11.0	34	16	19	4.0	4.0	53.14	54.12		0.98	13.00	1.00	N/A	N/A	6.64%	2.00%	2.00%
R16	X		X	BEVIS ST	115+48.84	11.0	39	16	19	4.0	4.0	53.26	54.30		1.04	13.00	1.00	N/A	N/A	7.10%	2.00%	2.00%
R17	X		X	BEVIS ST	115+72.15	11.2	34	16	19	4.0	4.0	53.35	54.42		1.07	13.00	1.00	N/A	N/A	7.29%	2.00%	2.00%
R18	X		X	BEVIS ST	115+95.54	11.3	34	16	19	4.0	5.0	53.44	54.41		0.97	12.74	1.00	N/A	N/A	6.65%	2.00%	2.00%
R19	X		X	BEVIS ST	116+47.51	11.0	39	18	19	5.0	5.0	53.66	54.83		1.17	13.00	1.00	N/A	N/A	8.10%	2.00%	2.00%
R20	X		X	BEVIS ST	116+98.25	11.0	39	18	19	5.0	5.0	53.86	55.02		1.15	13.00	1.00	N/A	N/A	7.95%	2.00%	2.00%
R21	X		X	BEVIS ST	118+24.92	11.0	26	12	19	5.0	3.5	54.00	54.64		0.64	13.00	1.00	N/A	N/A	3.97%	2.00%	2.00%
L19	X		X	BEVIS ST	118+29.19	11.0	30	14	19	5.0	4.0	54.01	54.89		0.87	13.00	1.00	N/A	N/A	5.80%	2.00%	2.00%
R22	X		X	BEVIS ST	118+45.27	11.0	30	14	19	3.5	3.5	54.06	54.63		0.57	12.91	1.00	N/A	N/A	3.45%	2.00%	2.00%
L20	X		X	BEVIS ST	118+51.49	11.0	30	14	19	4.0	4.0	54.08	54.87		0.79	13.00	1.00	N/A	N/A	5.16%	2.00%	2.00%
R23	X		X	BEVIS ST	118+67.29	11.4	34	16	19	3.5	3.0	54.12	54.70		0.58	12.64	1.00	N/A	N/A	3.66%	2.00%	2.00%
L21	X		X	BEVIS ST	118+74.21	11.0	30	14	19	4.0	4.0	54.15	54.93		0.78	13.00	1.00	N/A	N/A	5.11%	2.00%	2.00%
R24	X		X	BEVIS ST	118+90.00	11.5	36	16	19	3.0	2.5	54.14	54.95		0.81	12.50	1.00	N/A	N/A	5.56%	2.00%	2.00%
L22	X		X	BEVIS ST	118+96.54	11.0	30	14	19	4.0	4.0	54.13	54.95		0.82	13.00	1.00	N/A	N/A	5.42%	2.00%	2.00%
R25	X		X	BEVIS ST	119+10.28	11.0	34	16	19	2.5	5.0	54.08	54.79		0.71	13.00	1.00	N/A	N/A	4.56%	2.00%	2.00%
L23	X		X	BEVIS ST	119+19.18	11.0	30	14	19	4.0	3.5	54.06	54.99		0.93	13.00	1.00	N/A	N/A	6.22%	2.00%	2.00%
R26	X		X	BEVIS ST	119+35.98	11.3	38	16	19	5.0	5.0	54.01	55.30		1.30	12.75	1.00	N/A	N/A	9.24%	2.00%	2.00%
L24	X		X	BEVIS ST	119+40.19	11.0	30	14	19	3.5	5.0	54.00	55.05		1.05	13.00	1.00	N/A	N/A	7.16%	2.00%	2.00%
R27	X		X	BEVIS ST	119+67.34	11.0	47	22	19	5.0	5.0	53.92	55.11		1.19	13.00	1.00	N/A	N/A	8.23%	2.00%	2.00%
L25	X		X	BEVIS ST	119+73.98	11.0	47	22	19	5.0	5.0	53.90	54.65		0.75	13.00	1.00	N/A	N/A	4.86%	2.00%	2.00%
L26	X		X	BEVIS ST	120+17.89	11.0	26	12	19	5.0	5.0	53.86	54.57		0.71	13.00	1.00	N/A	N/A	4.57%	2.00%	2.00%
R28	X		X	BEVIS ST	122+24.67	11.0	35	16	19	5.0	5.0	54.95	56.17		1.22	13.00	1.00	N/A	N/A	8.46%	2.00%	2.00%
R29	X		X	BEVIS ST	123+22.18	11.0	43	20	19	5.0	5.0	56.09	57.81		1.72	13.00	N/A	N/A	N/A	10.41%	2.00%	N/A
L27	X		X	BEVIS ST	123+80.28	11.0	22	10	19	5.0	5.0	56.30	57.05		0.75	13.00	1.00	N/A	N/A	4.82%	2.00%	2.00%
R30	X		X	BEVIS ST	124+24.12	11.0	51	24	19	5.0	5.0	56.69	57.82		1.14	13.00	1.00	N/A	N/A	7.82%	2.00%	2.00%

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

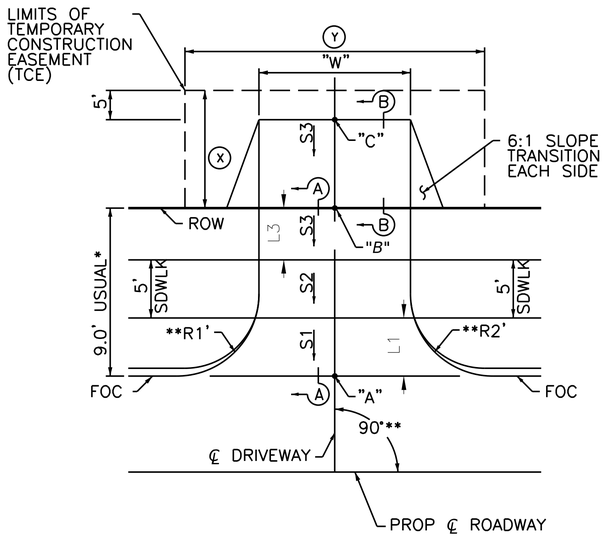
DRIVEWAY TABLE

SHEET 01 OF 02

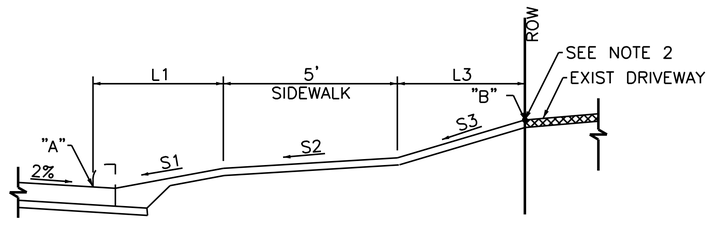
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NTS	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 174 OF 278	

Asset E
10/23/2025
J:\Sheet\TURKEY RD_MISC_01
TURKEY_RD_MISC_01.dgn

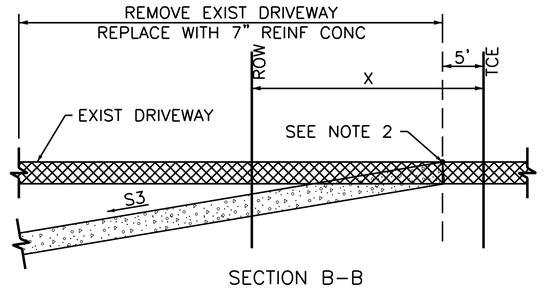
DRIVEWAY NO.	DRIVEWAY TABLE																				
	DWY TYPE			ALIGNMENT	CENTERLINE STATION	STATION OFFSET	DRIVEWAY AREA (SY)	DRIVEWAY WIDTH	DRIVEWAY LENGTH	CURB RETURN RADIUS		ELEVATION				LENGTH OF DRIVEWAY		TCE		SLOPE		
	CONCRETE	COMMERCIAL	RESIDENTAIL							RADIUS (R1)	RADIUS (R2)	ELE. @ PT "A"	EL. @ PT "B"	EL. @ PT "C"	DELTA ELEVATION	L1	L3	X	Y	S1	S2	S3
							SF	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT	FT			
R3	X	X		W 20TH ST	103+87.99	42.4	65	28	19	10.0	10.0	54.44	54.75		0.30	3.74	10.32	N/A	N/A	2.15%	2.00%	1.20%
L1	X	X		W 20TH ST	107+64.17	26.5	84	30	24	10.0	10.0	53.45	53.55		0.11	3.50	15.01	N/A	N/A	2.00%	2.00%	-0.40%
L2	X	X		W 20TH ST	109+64.12	26.5	50	40	12	10.0	10.0	54.03	54.70		0.67	3.00	4.20	N/A	N/A	1.86%	2.00%	12.23%
R4	X	X		W 20TH ST	110+41.15	24.5	176	24	59	20.0	20.0	53.87	54.23		0.36	4.00	49.53	N/A	N/A	2.00%	2.00%	0.36%
L3	X	X		W 20TH ST	112+64.12	26.5	70	36	16	10.0	10.0	53.50	53.77	54.61	0.27	2.50	8.00	N/A	N/A	2.00%	2.00%	11.91%
R6	X	X		W 20TH ST	113+40.38	13.5	45	25	22	12.0	12.0	53.84	55.46		1.62	3.50	13.08	N/A	N/A	2.00%	2.00%	11.10%
L4	X	X		W 20TH ST	114+19.57	18.6	81	38	18	10.0	10.0	54.14	55.05		0.91	3.88	9.47	N/A	N/A	1.99%	2.00%	7.69%
L5	X	X		W 20TH ST	116+73.55	16.5	64	25	21	10.0	10.0	53.85	54.76		0.91	3.53	12.72	N/A	N/A	2.00%	2.00%	5.83%
L28	X		X	W 22ND ST	11+26.45	10.0	42	18	20	5.0	5.0	53.41	53.98		0.57	20.00	N/A	N/A	N/A	2.83%	N/A	N/A
L29	X		X	W 24TH ST	10+96.00	11.0	18	18	8	5.0	5.0	54.98	54.94		-0.04	8.00	N/A	N/A	N/A	-0.50%	N/A	N/A
L30	X		X	W 25TH ST	11+11.17	11.0	28	16	15	5.0	5.0	55.03	55.08		0.05	15.02	N/A	N/A	N/A	0.33%	N/A	N/A
L31	X		X	W 26TH ST	0+76.68	11.0	31	15	18	5.0	5.0	58.27	58.80		0.53	17.51	N/A	N/A	N/A	3.00%	N/A	N/A
R1	X	X		TC JESTER	111+81.40	28.9	57	36	13	10.0	10.0	51.69	52.10	52.74	0.41	2.55	5.32	N/A	N/A	12.00%	2.00%	12.00%



TYPICAL DRIVEWAY LAYOUT
NOT TO SCALE



SECTION A–A
TYPICAL AT ALL DRIVEWAYS
NOT REQUIRING TCE
NOT TO SCALE



SECTION B–B

NOTES:

1. FOR REINFORCING AND EXPANSION JOINT DETAILS, SEE COH STANDARD DRAWINGS
2. SAW CUT EXISTING CONCRETE OR ASPHALT PAVEMENT AT TIE–IN NEATLY TO PROVIDE A SMOOTH EDGE (MIN DEPTH 1.5")

* THE CONSTRUCTABILITY CONDITION OF AREA AT DISTANCE (X) BEYOND THE RIGHT OF WAY SHOULD BE VERIFIED BY CONTRACTOR. RIGHT OF ENTRY (ROE) SHALL BE OBTAINED BY COD CONSTRUCTION MANAGER.

** USUAL: SEE ROADWAY PLAN & PROFILE SHEETS FOR VARIATION.

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FB NO. P-6325

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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

DRIVEWAY TABLE

SHEET 02 OF 02

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NTS	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 175 OF 278	

10/23/2025
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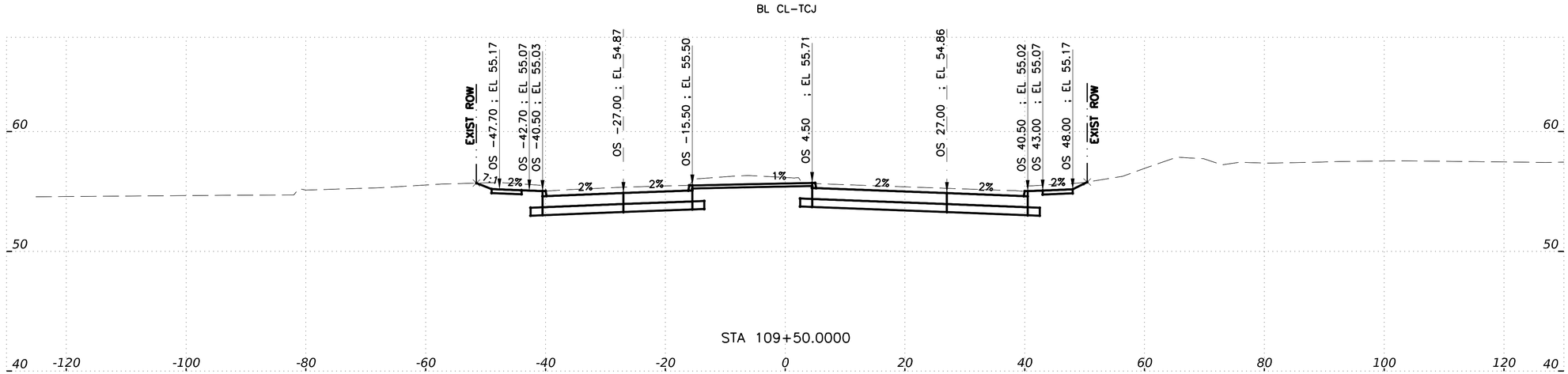
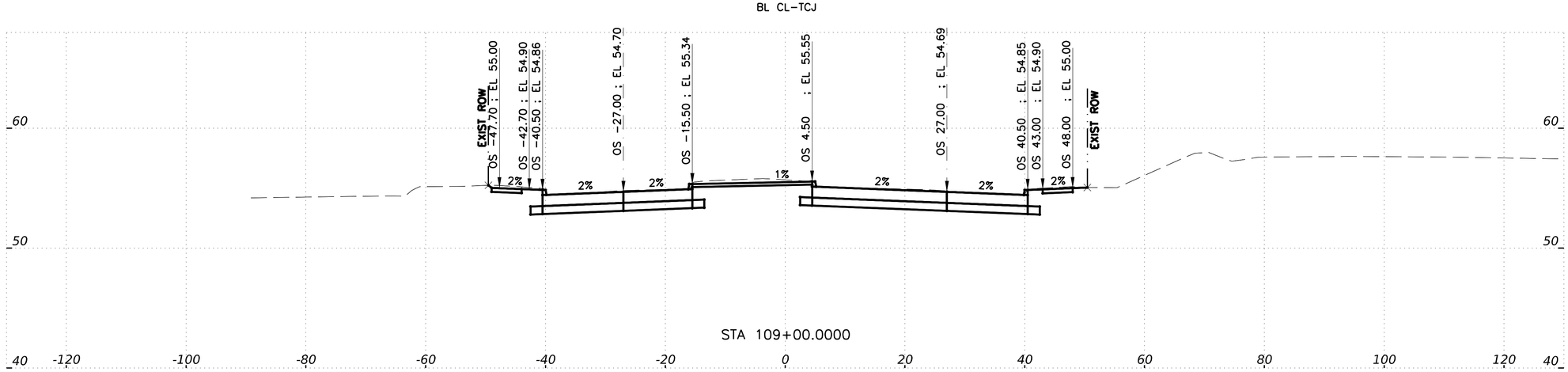
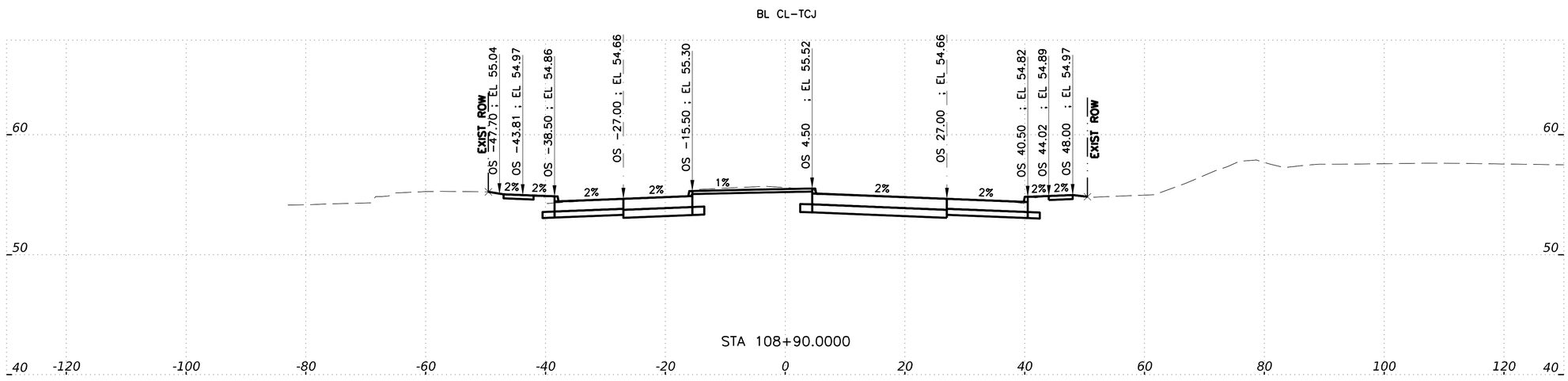
TURKEY_RD_MISC_02.dgn







HORZ 0' 10' 20'
VERT 0' 5' 10'
SCALE IN FEET

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HOUSTON PUBLIC WORKS

TURKEY GULLY

CROSS SECTIONS
TC JESTER BLVD.

SHEET 1 OF 1

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 176 OF 278	

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10/23/2025
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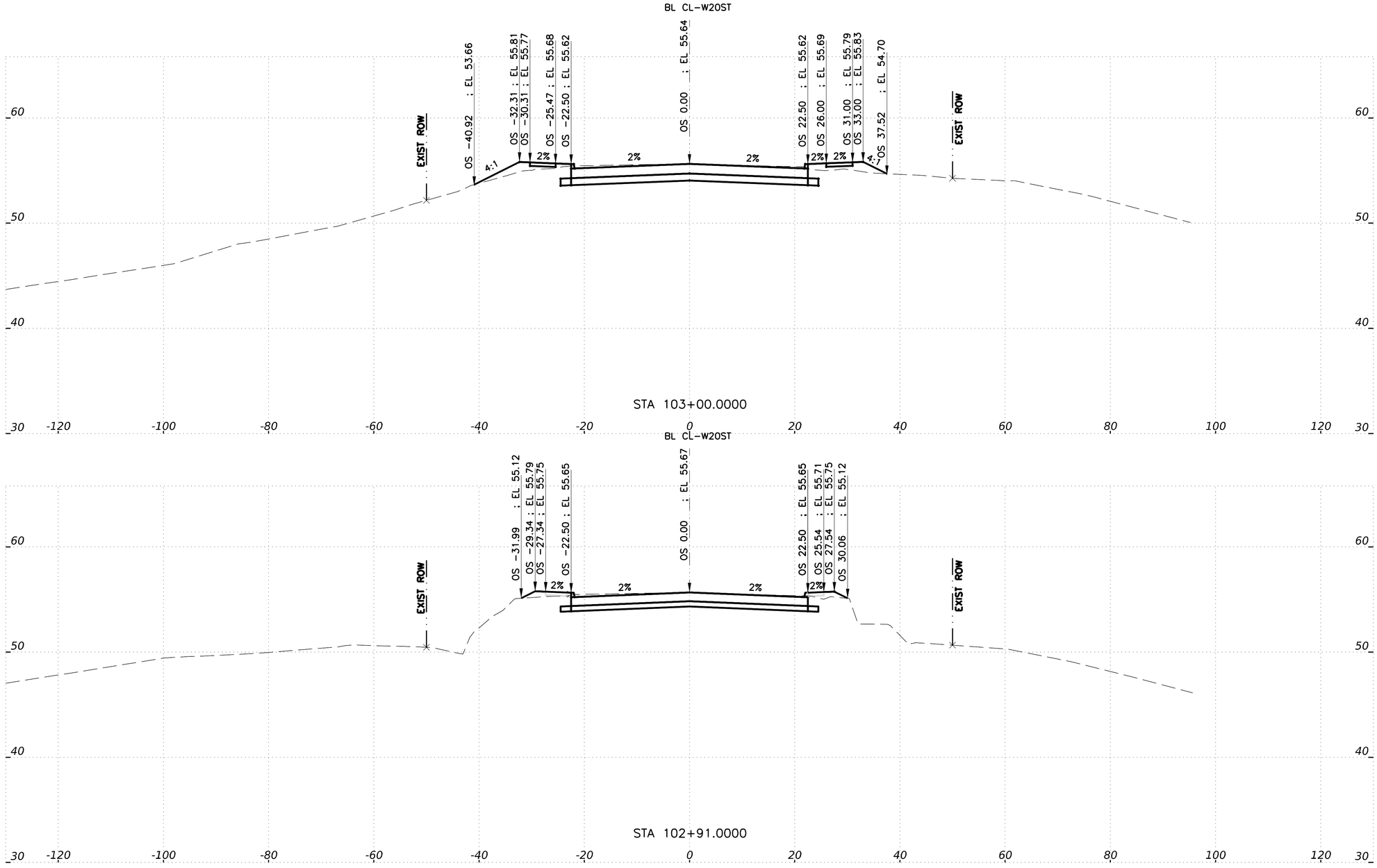
G-TCJ-XS01.dgn



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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

CROSS SECTIONS
W. 20th. ST

SHEET 01 OF 10

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M-410291-0001-4	
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CITY OF HOUSTON PM	
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SHEET NO. 177 OF 278	

ThuT
10/23/2025
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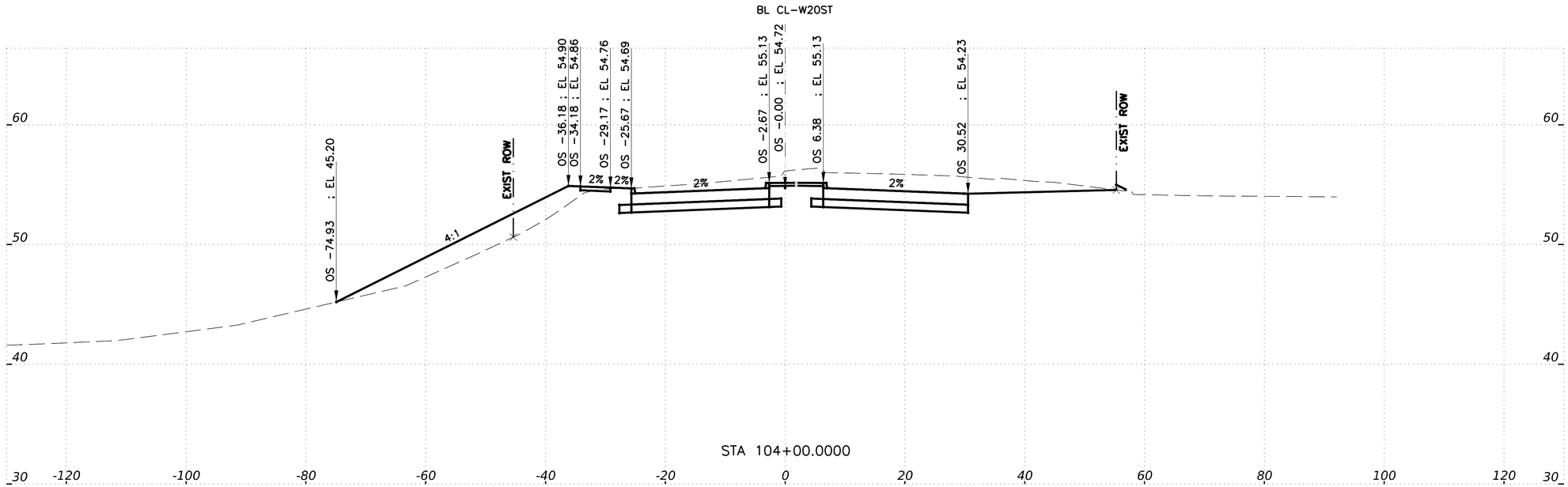

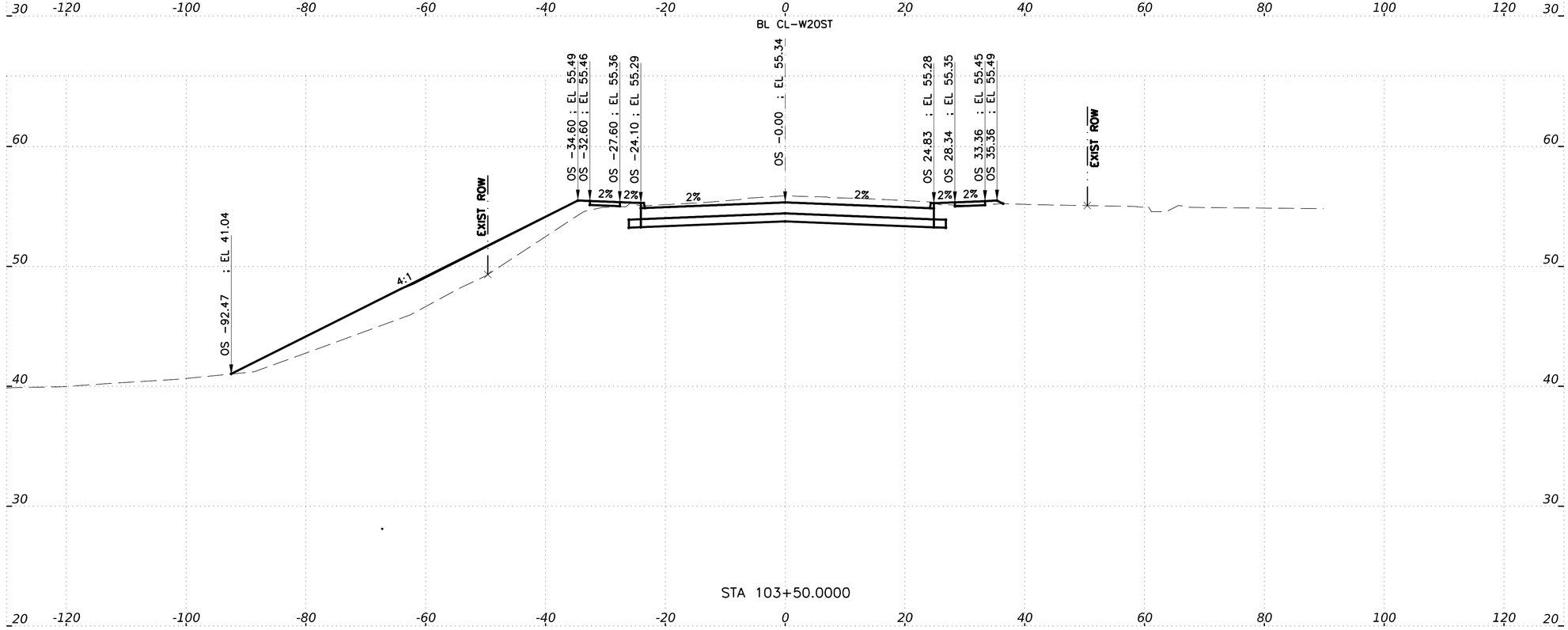

HORZ 0' 10' 20'
VERT 0' 5' 10'
SCALE IN FEET

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TURKEY GULLY

CROSS SECTIONS
W. 20th. ST.

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DRAWING SCALE	
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CITY OF HOUSTON PM	
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SHEET NO. 178 OF 278	

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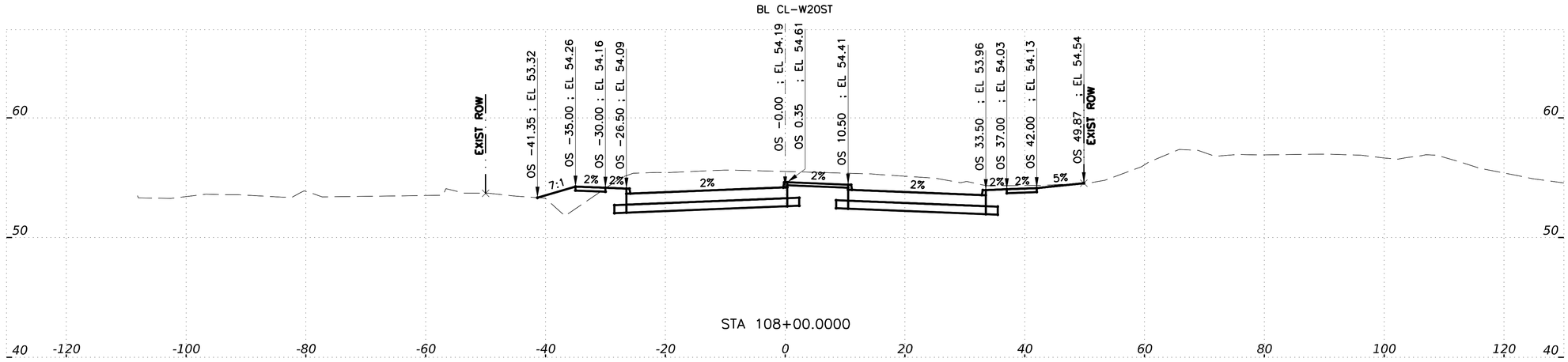

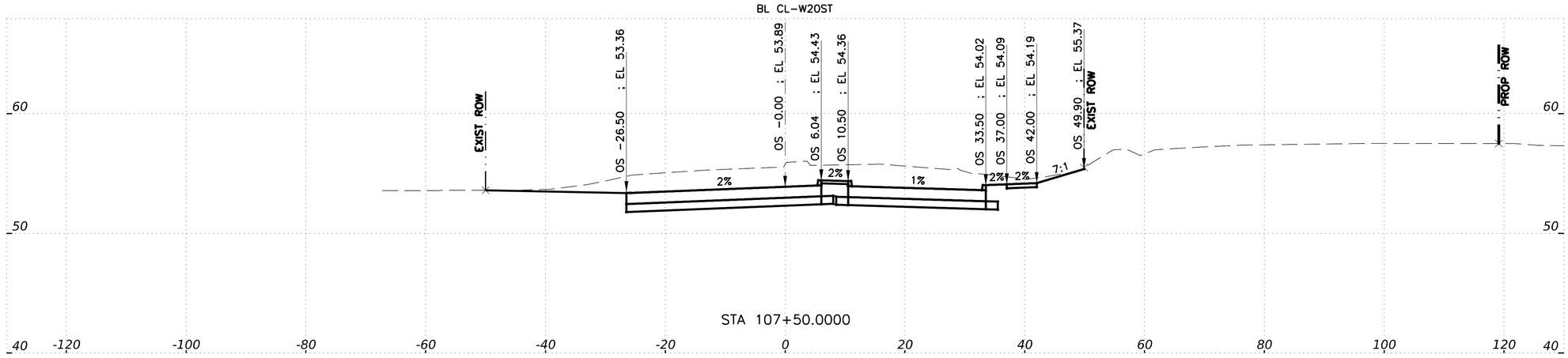

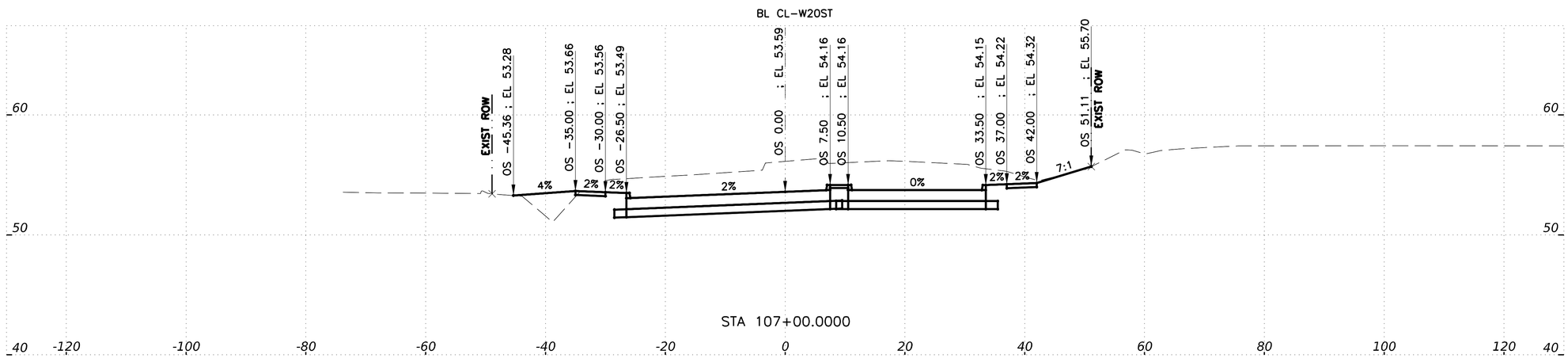

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TURKEY GULLY

CROSS SECTIONS
W. 20th ST.

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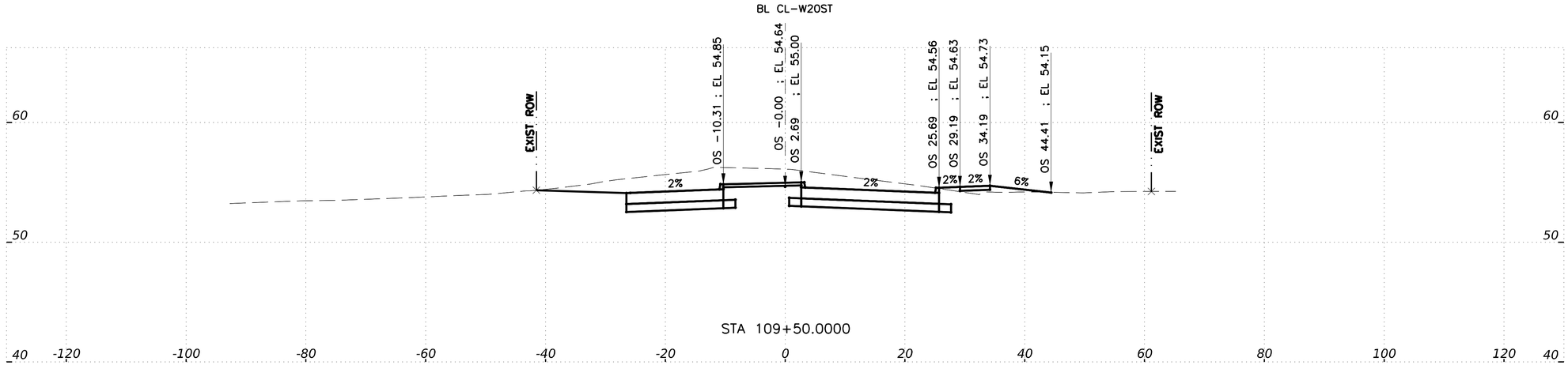
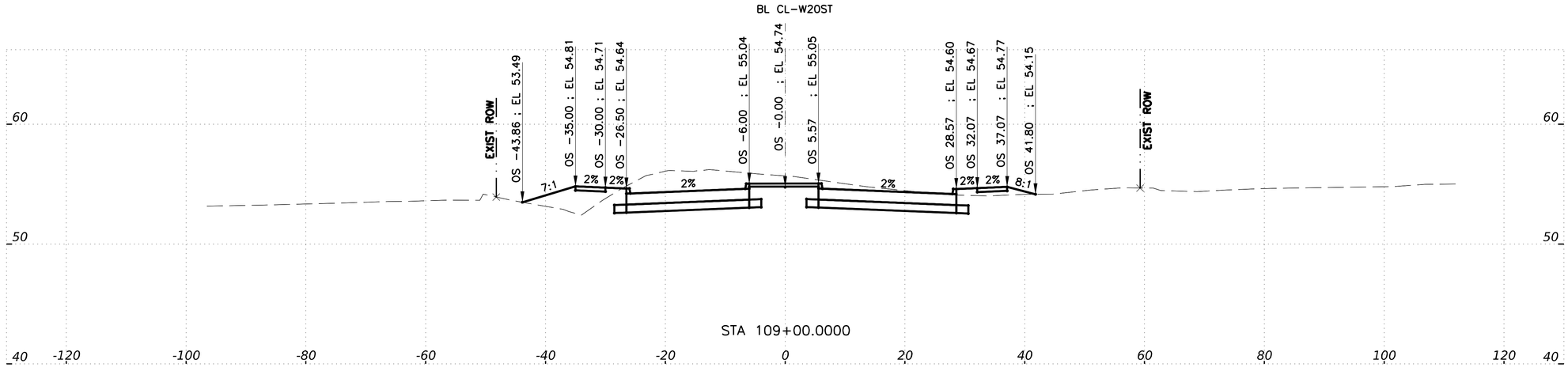
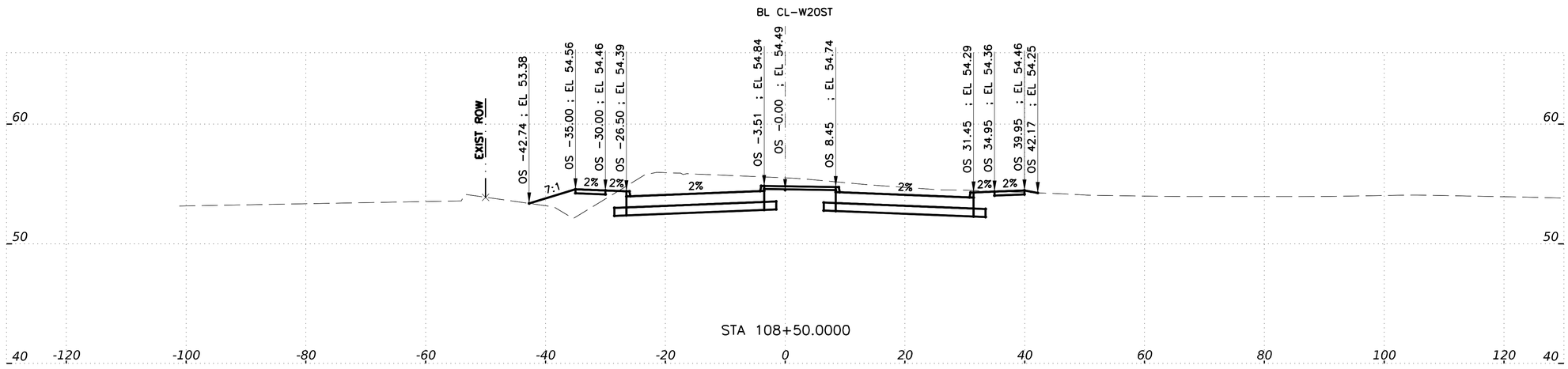
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 179 OF 278	

10/23/2025
TG-W20ST-XS05.dgn







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TURKEY GULLY

CROSS SECTIONS
W. 20th ST.

SHEET 04 OF 10

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M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 180 OF 278	

10/23/2025
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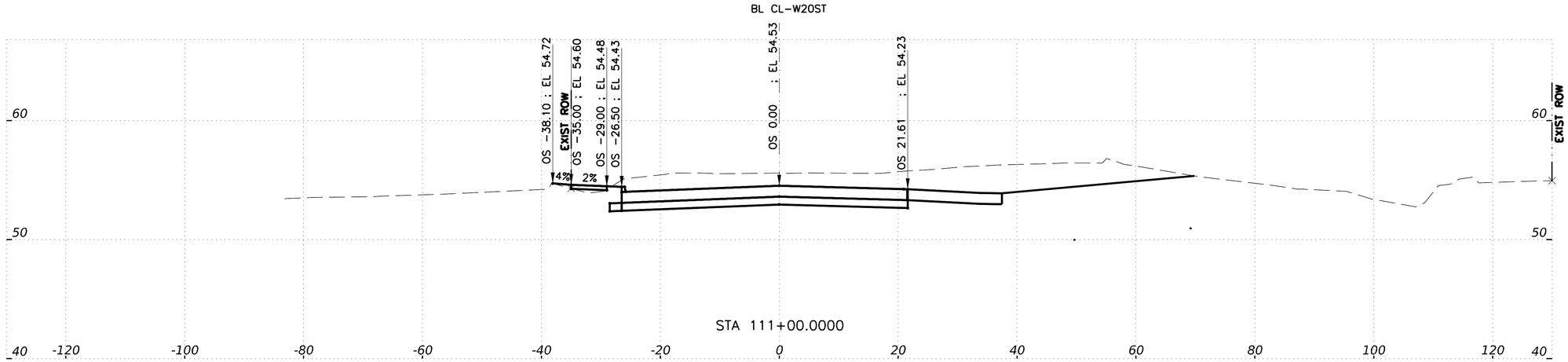

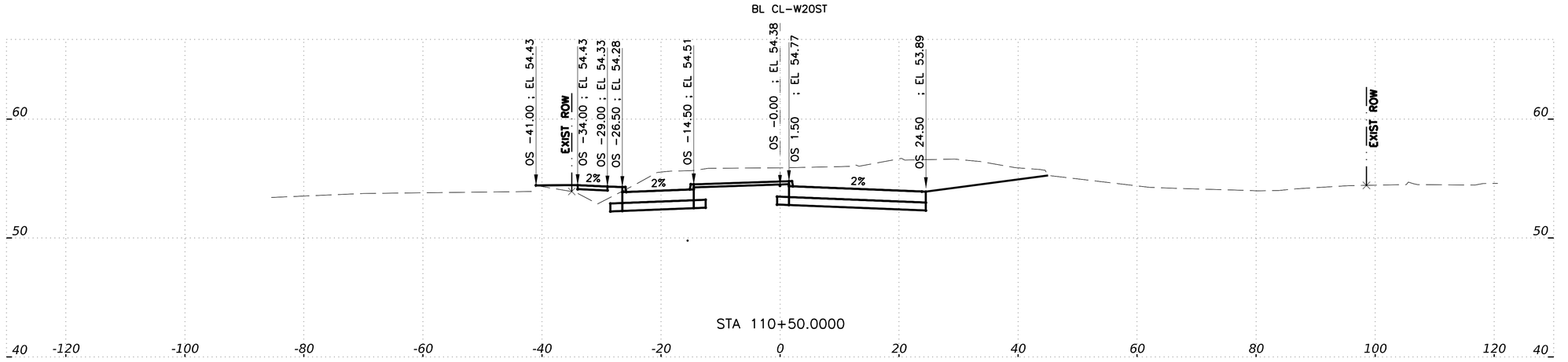

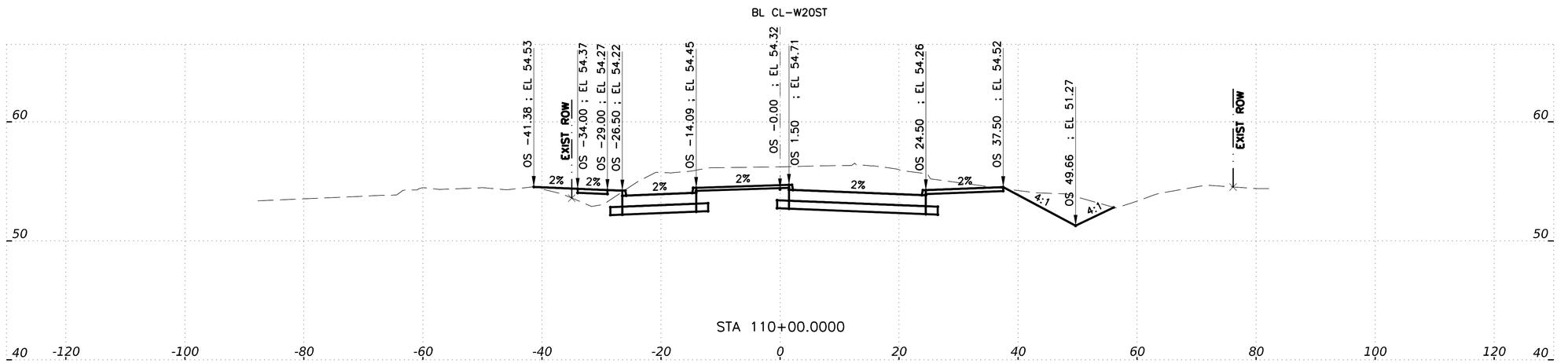

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CROSS SECTIONS
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SHEET 05 OF 10

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CITY OF HOUSTON PM	
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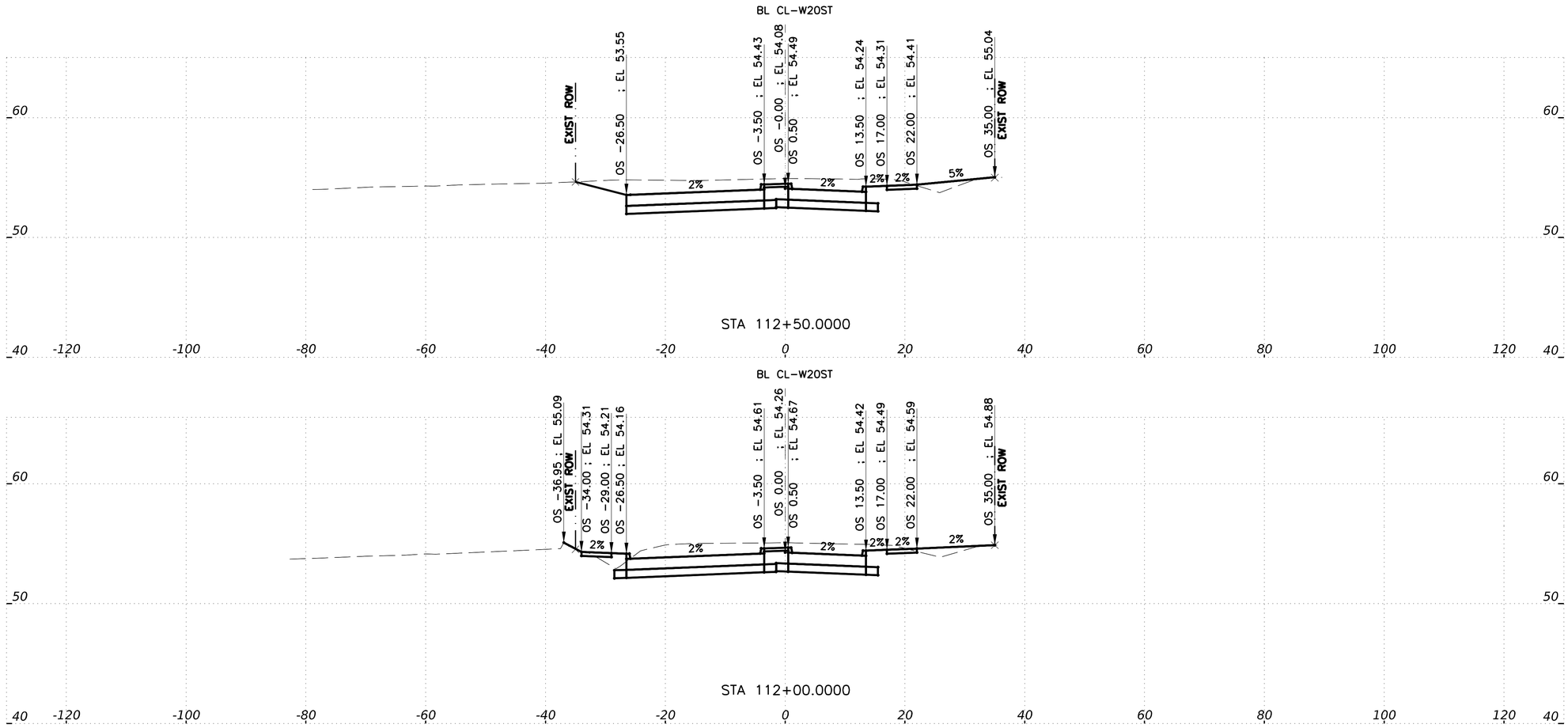
SHEET NO. 181 OF 278	

10/23/2025
TG-W20ST-XS07.dgn



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W. 20th ST.

SHEET 06 OF 10

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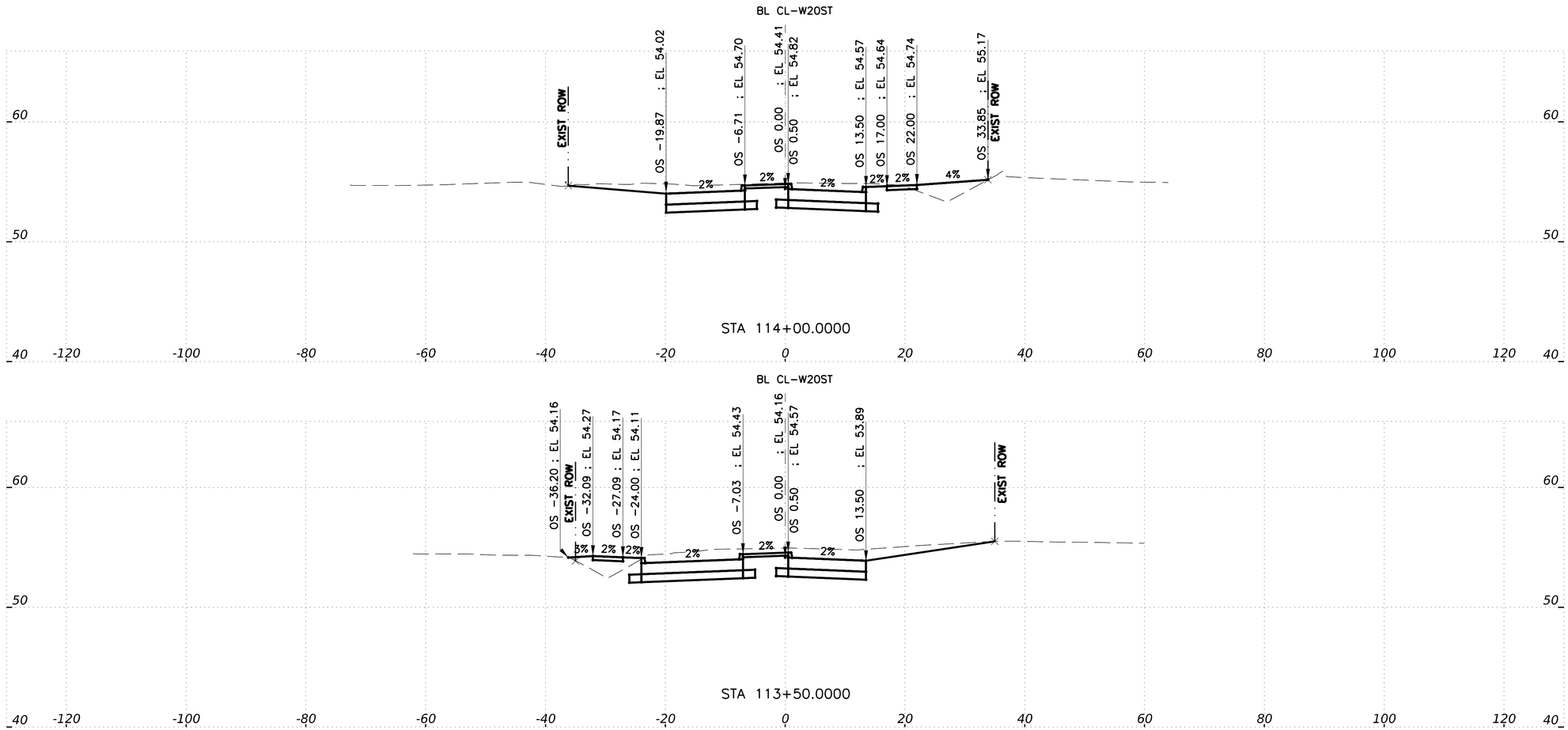
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 182 OF 278	

10/23/2025
...\10-W20ST-XS08.dgn



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SHEET NO. 183 OF 278	

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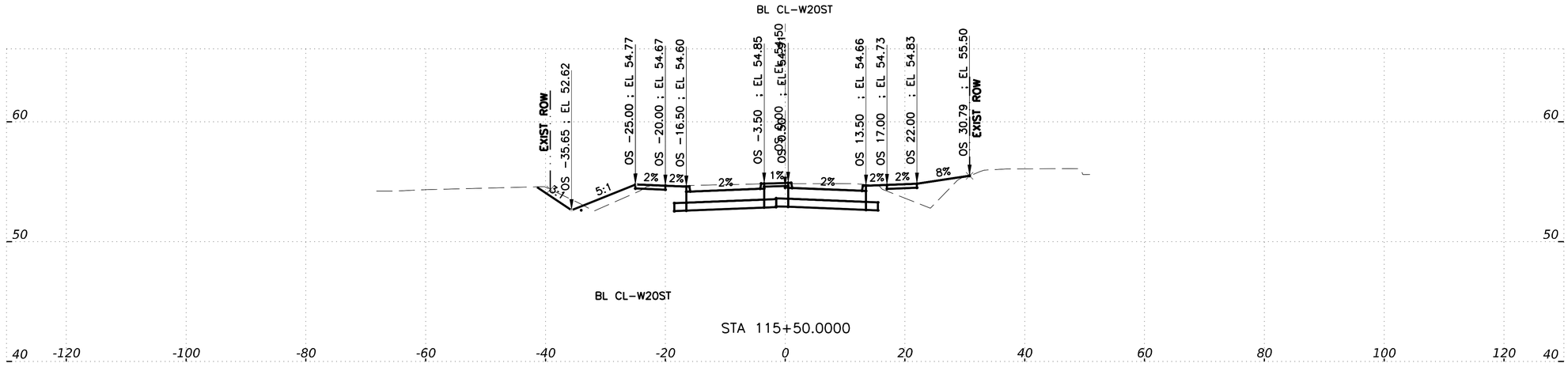
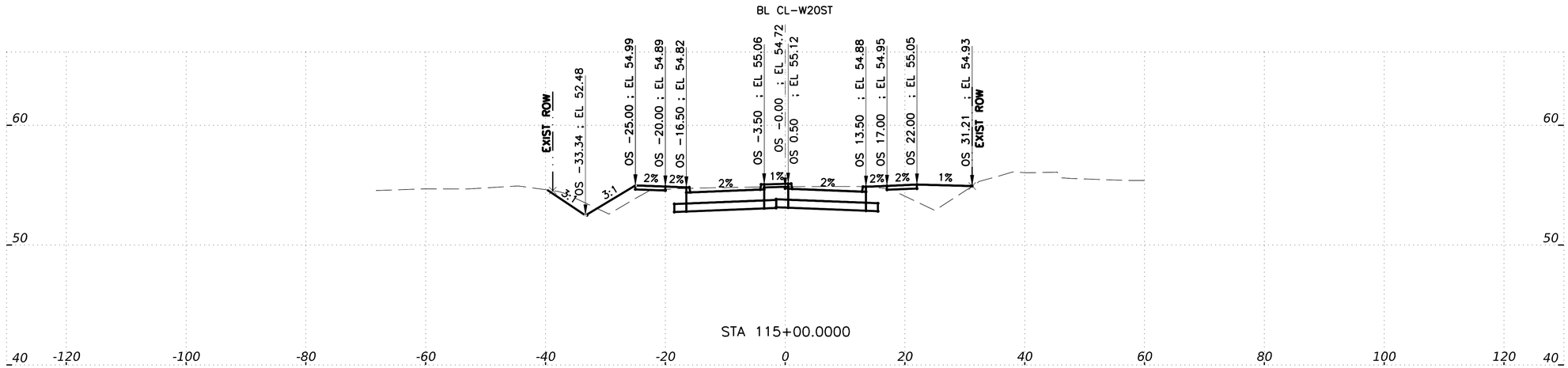
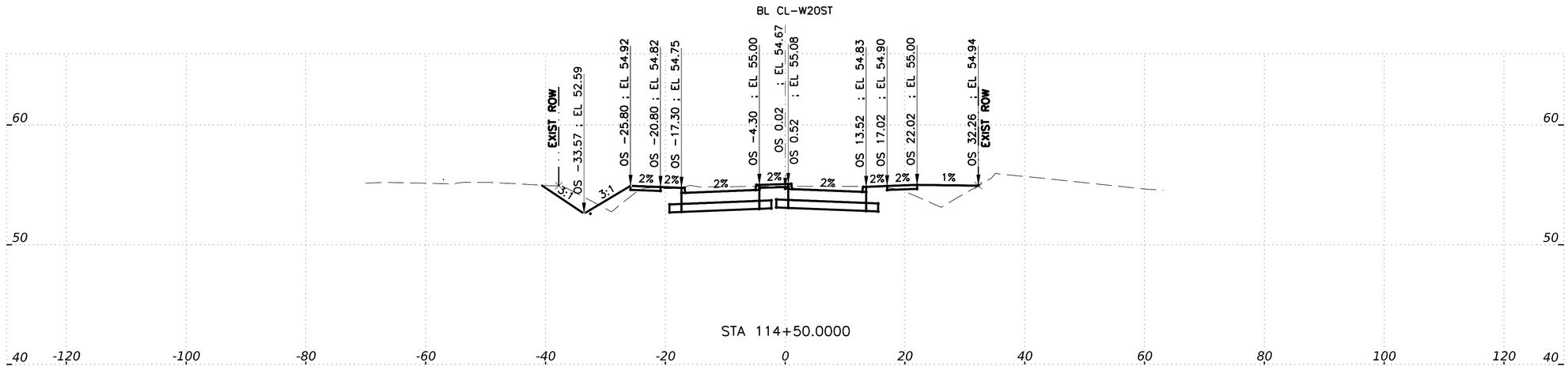
XS-W20ST-XS09.dgn







HORZ 0' 10' 20'
VERT 0' 5' 10'
SCALE IN FEET

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

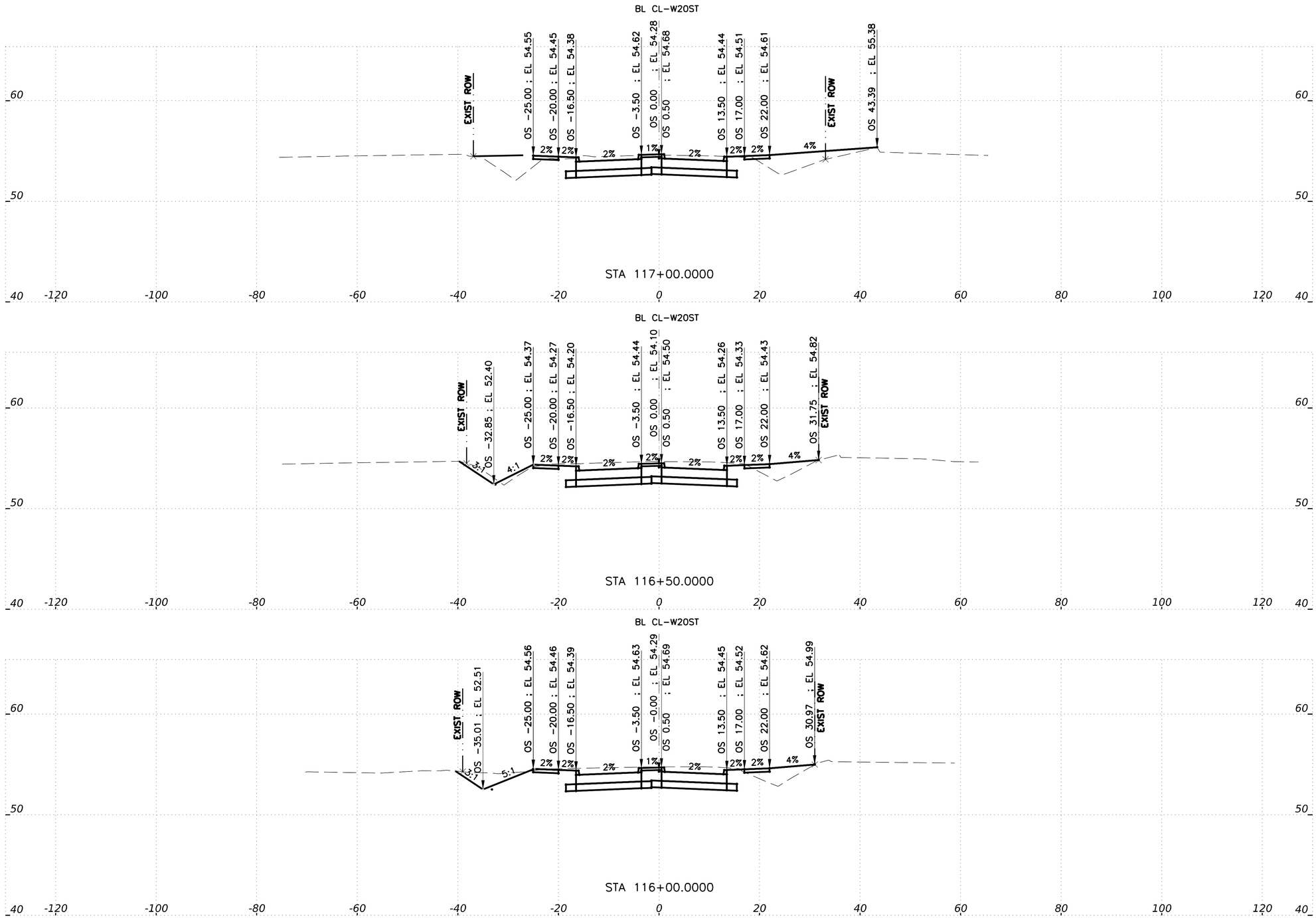
TURKEY GULLY

CROSS SECTIONS
W. 20th ST.

SHEET 8 OF 10

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 184 OF 278	

10/23/2025
...\TG-W20ST-XS10.dgn



HORZ 0' 10' 20'
VERT 0' 5' 10'
SCALE IN FEET

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Houston, Texas 77094
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TBPE FIRM REGISTRATION NO. F-6825

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HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

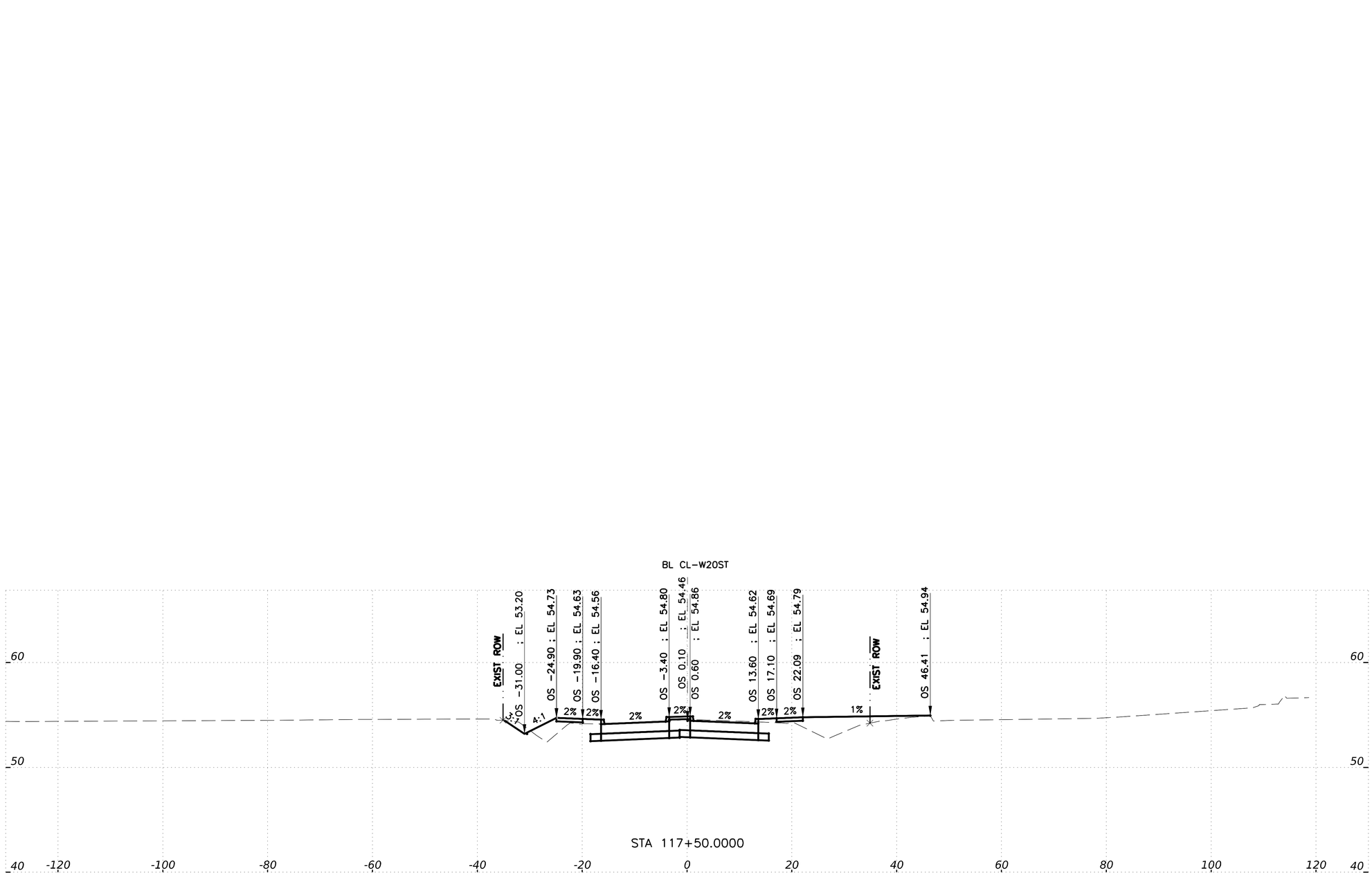
TURKEY GULLY

CROSS SECTIONS
W. 20th ST.

SHEET 09 OF 10

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **185** OF **278**	

10/23/2025
...STC-W20ST-XS11.dgn



HORZ 0' 10' 20'
VERT 0' 5' 10'
SCALE IN FEET

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Houston, Texas 77094
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TBPE FIRM REGISTRATION NO. F-6825

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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

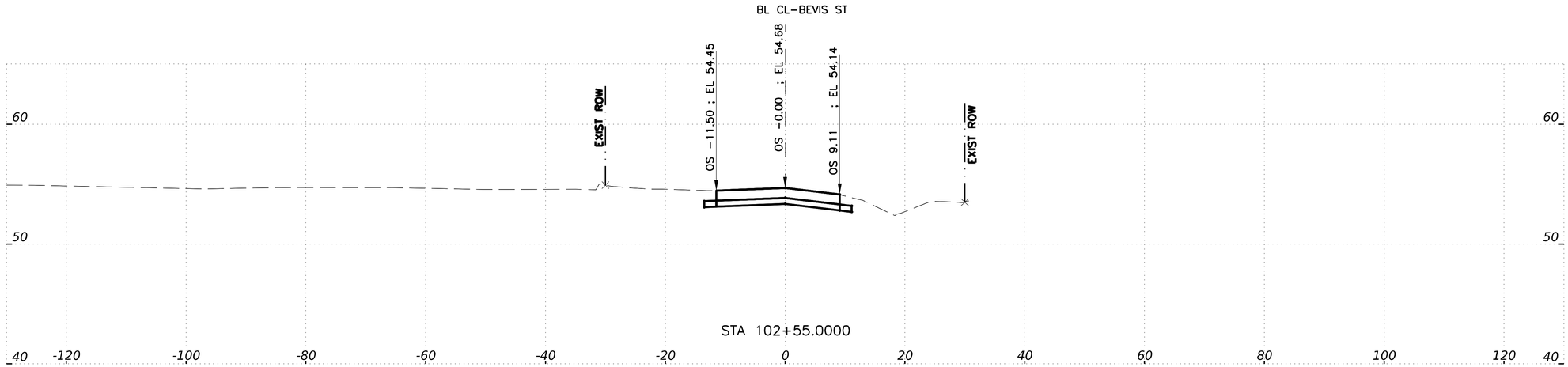
TURKEY GULLY

CROSS SECTIONS
W. 20st ST.

SHEET 10 OF 10

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **186** OF **278**	

ThuT
10/23/2025
G-W20ST-XS12.dgn



HORZ 0' 10' 20'
VERT 0' 5' 10'
SCALE IN FEET

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

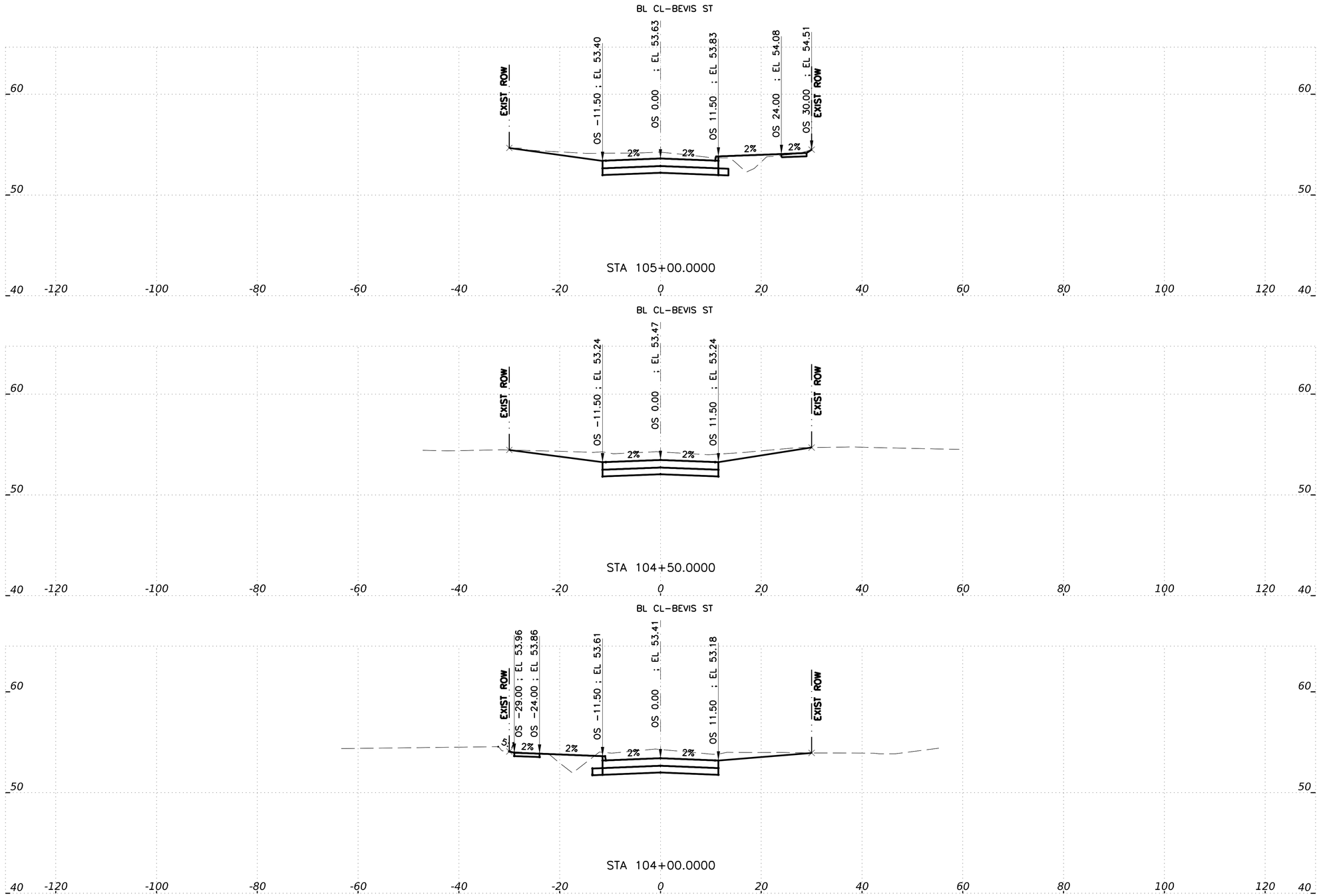
TURKEY GULLY

CROSS SECTIONS
BEVIS ST.

SHEET 01 OF 17

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 187 OF 278	

ThuT
10/23/2025
G-BEVIS-XS01.dgn



HORZ 0' 10' 20'
VERT 0' 5' 10'
SCALE IN FEET

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

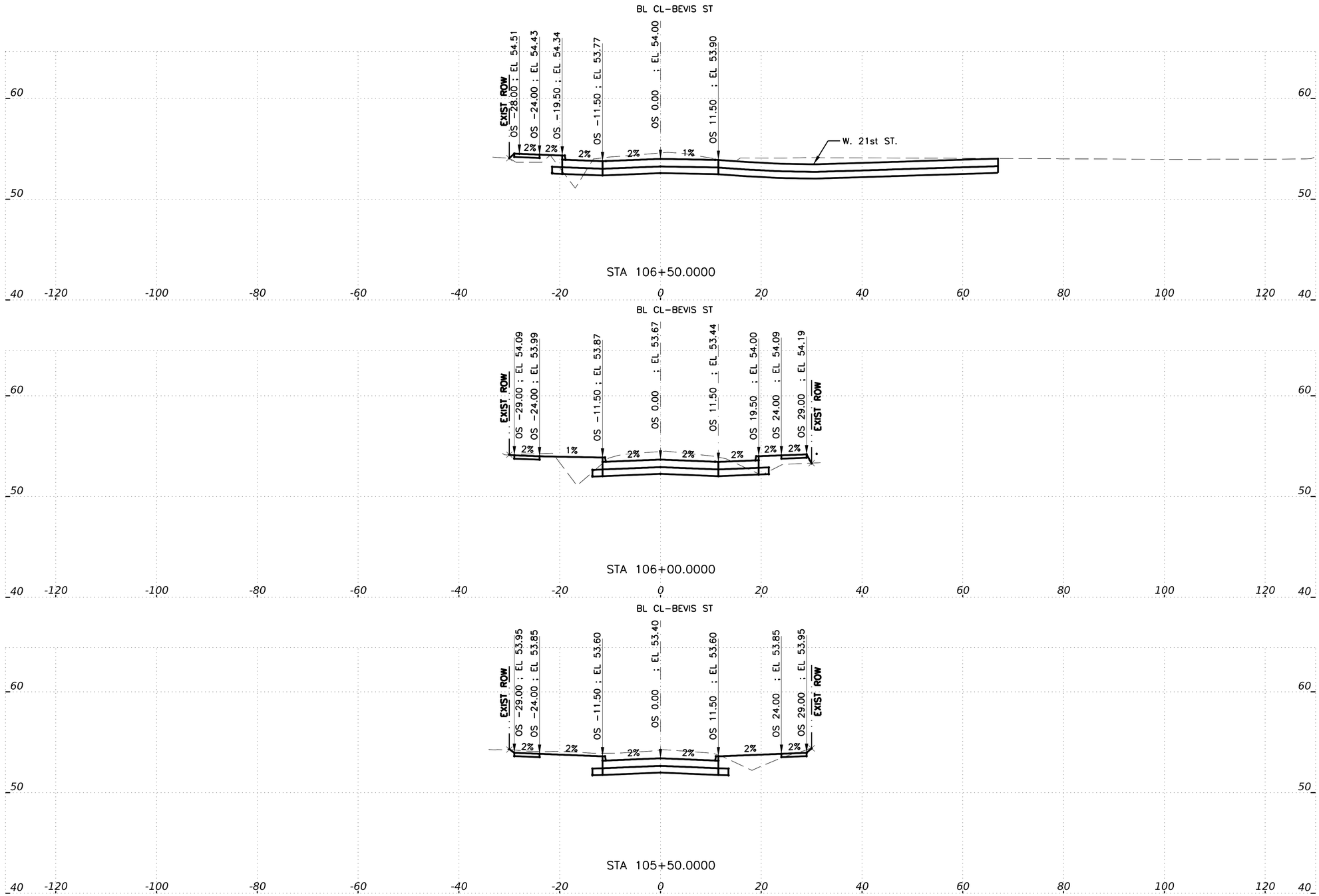
TURKEY GULLY

CROSS SECTIONS
BEVIS ST.

SHEET 02 OF 17

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **188** OF **278**	

10/23/2025
...\TG-BEVIS-XS02.dgn
ThuT
TG-BEVIS-XS02.dgn



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SCALE IN FEET

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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

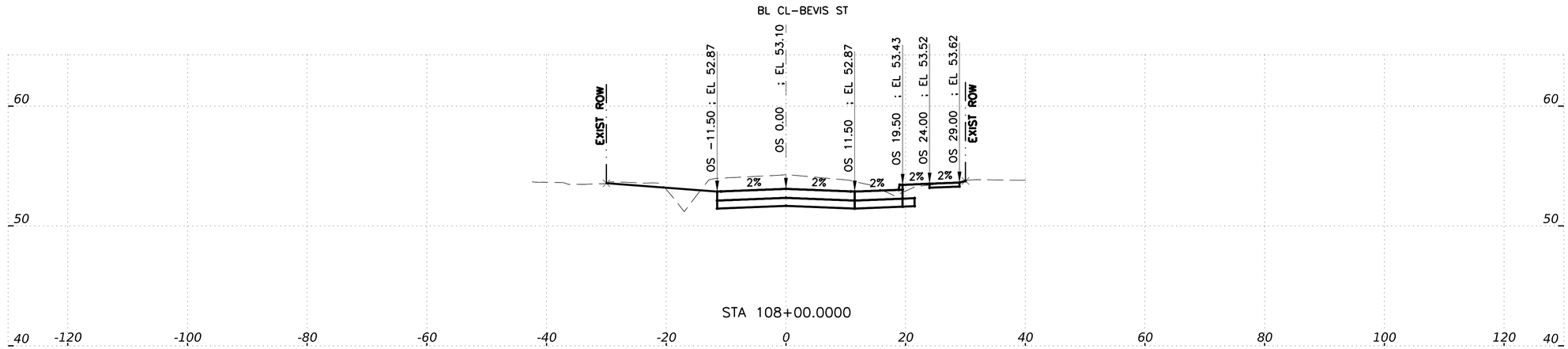
TURKEY GULLY

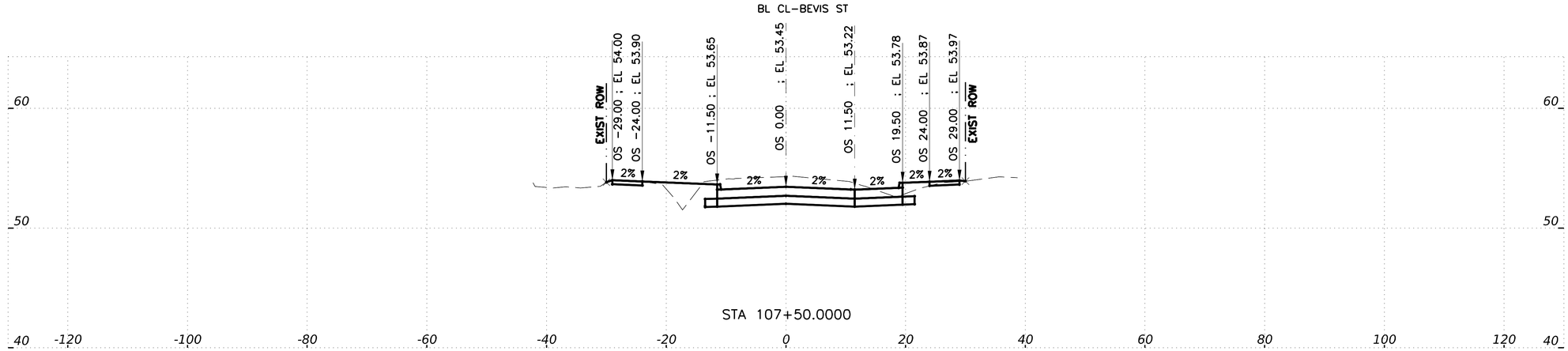
CROSS SECTIONS
BEVIS ST.

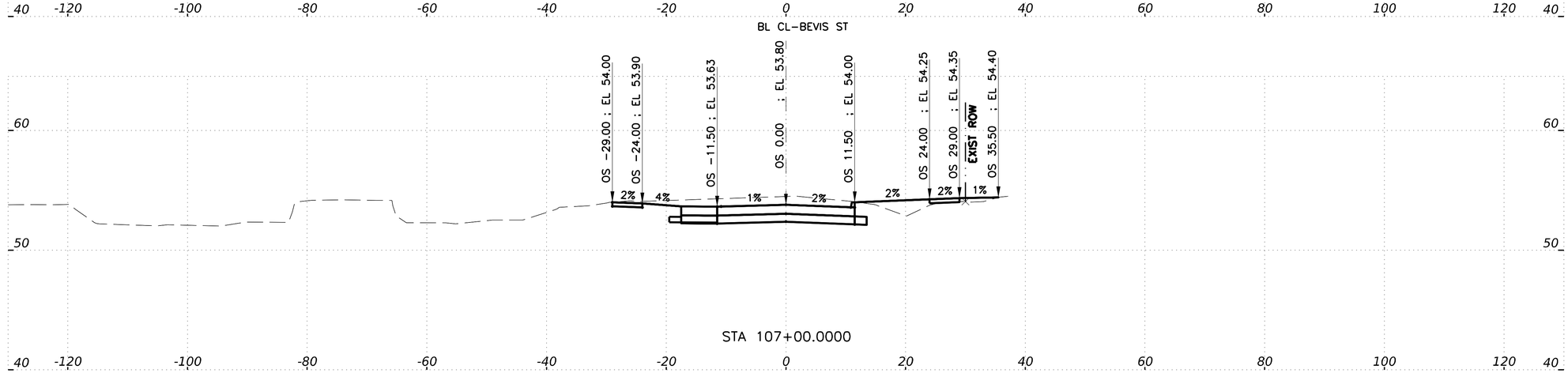
SHEET 03 OF 10

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 189 OF 278	

10/23/2025
TG-BEVIS-XS03.dgn







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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

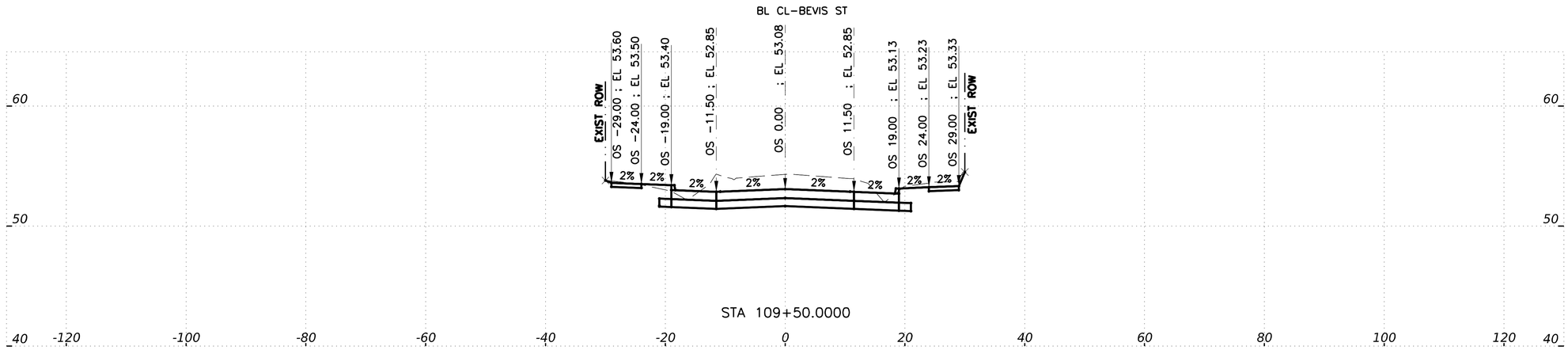
CROSS SECTIONS
BEVIS ST.

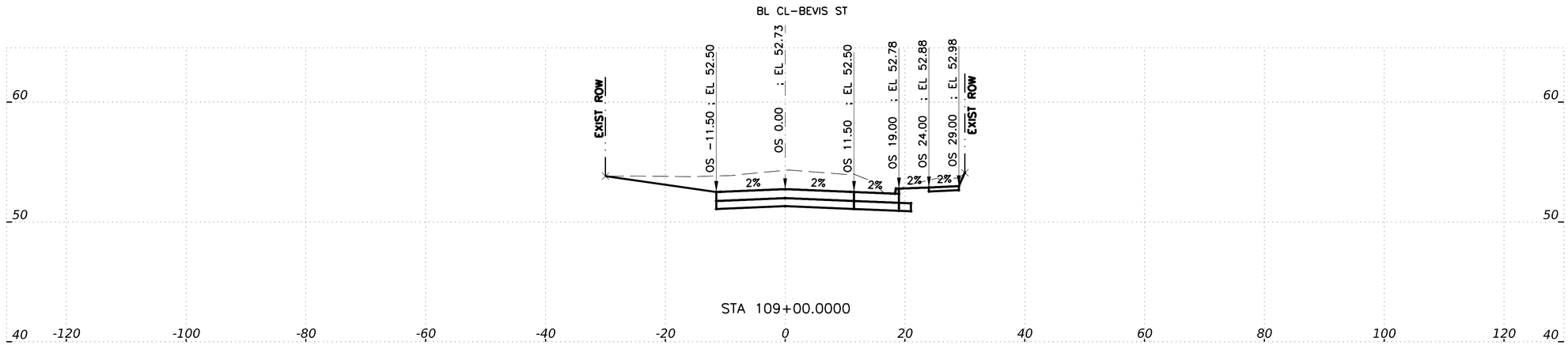
SHEET 04 OF 17

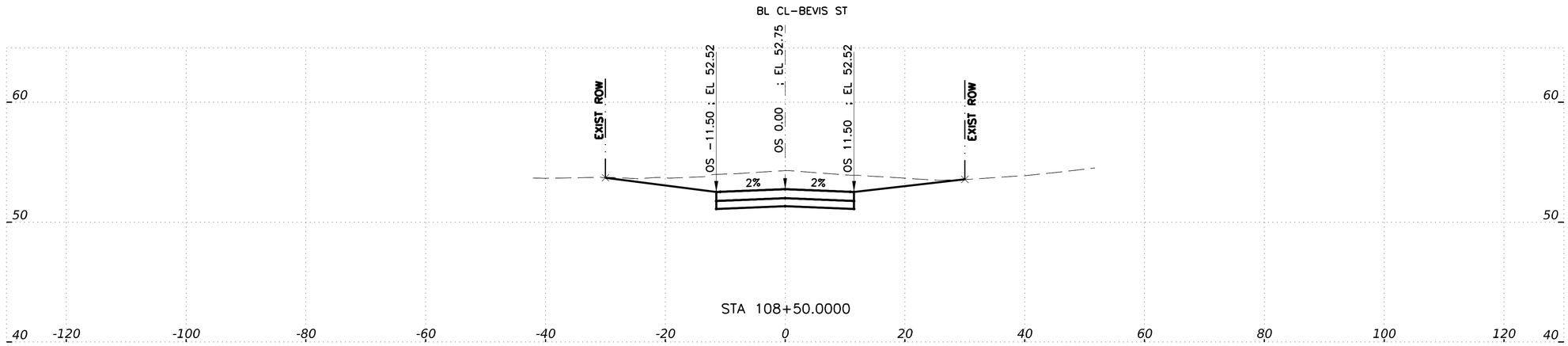
WBS NUMBER	M-410291-0001-4
DRAWING SCALE	1"=10'(H) ; 1"=5'(V)
CITY OF HOUSTON PM	LOI MA
SHEET NO.	190 OF 278

FOR CITY OF HOUSTON USE ONLY

10/27/2025
...\TG-BEVIS-XS04.dgn







HORZ 0' 10' 20'
VERT 0' 5' 10'
SCALE IN FEET

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15915 Katy Freeway, Suite 300
Houston, Texas 77094
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P.E. NO.113148 on 10/27/2025

SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

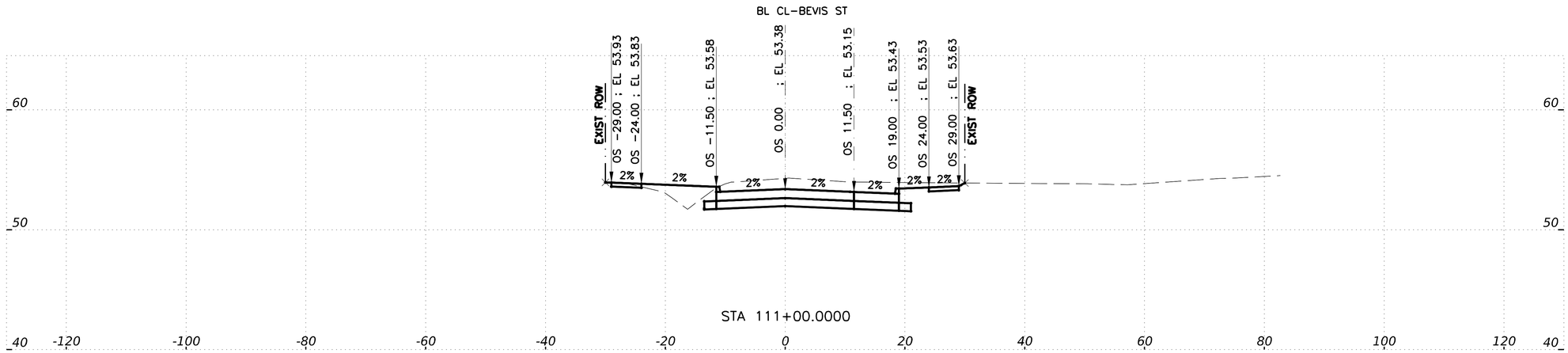
TURKEY GULLY

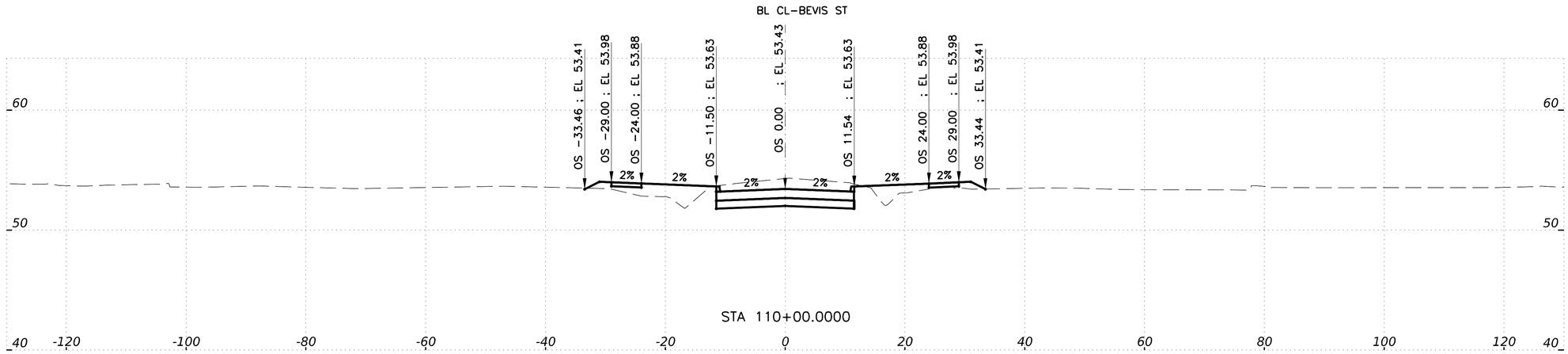
CROSS SECTIONS
BEVIS ST.

SHEET 05 OF 17

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 191 OF 278	

10/23/2025
TG-BEVIS-XS05.dgn





HORZ 0' 10' 20'
VERT 0' 5' 10'
SCALE IN FEET

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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

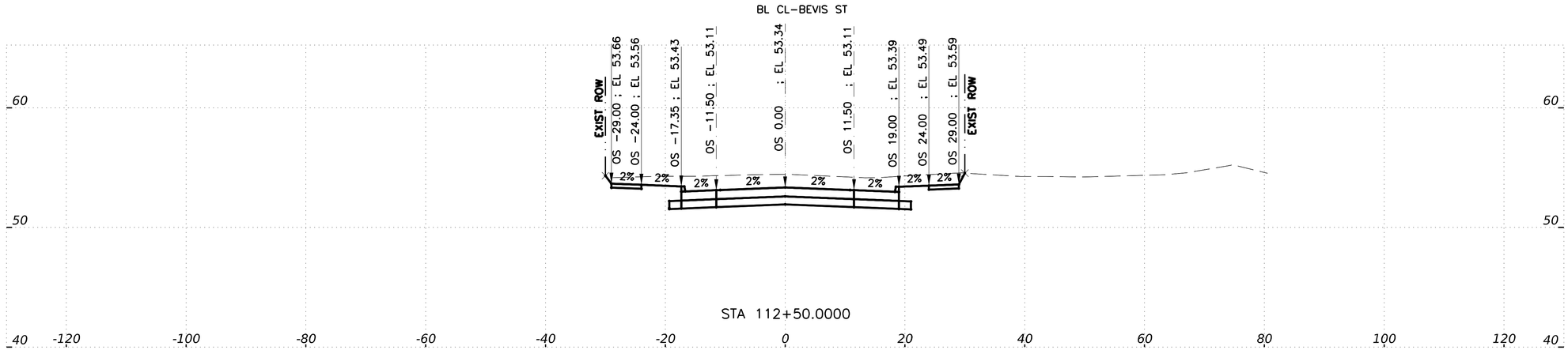
TURKEY GULLY

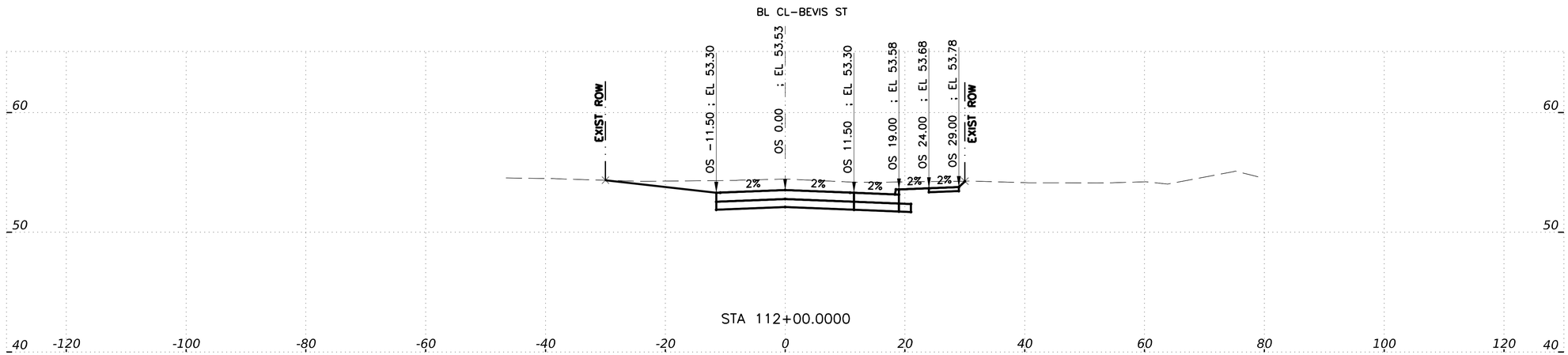
CROSS SECTIONS
BEVIS ST.

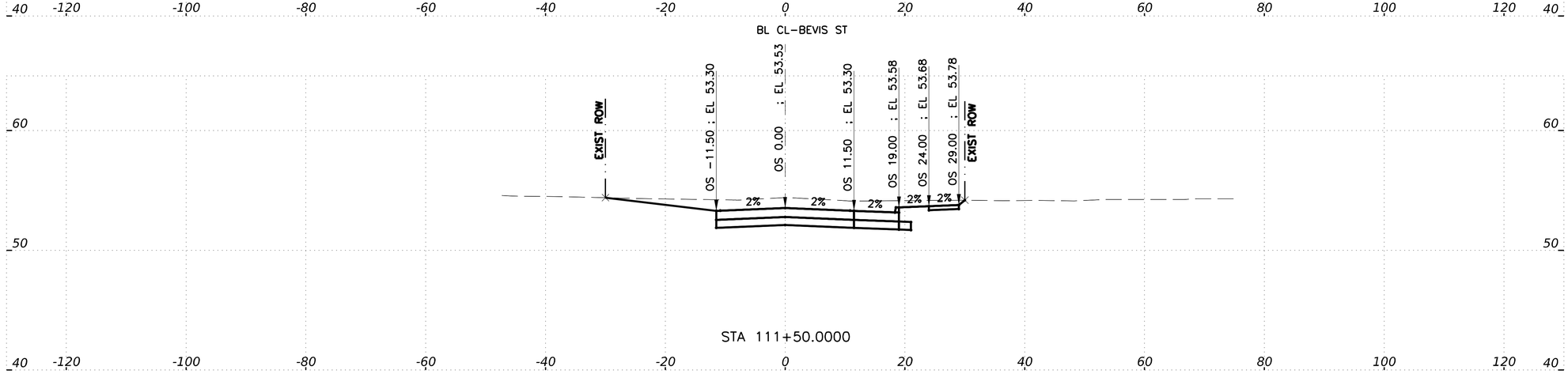
SHEET 06 OF 17

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 192 OF 278	

ThuT
10/23/2025
TG-BEVIS-XS06.dgn
TG-BEVIS-XS06.dgn







HORZ 0' 10' 20'
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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

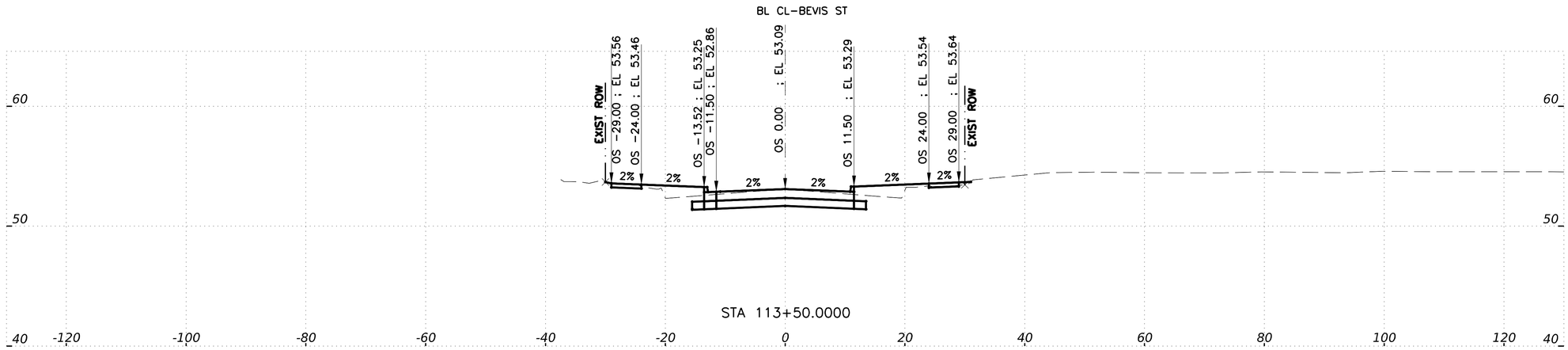
TURKEY GULLY

CROSS SECTIONS
BEVIS ST.

SHEET 07 OF 17

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 193 OF 278	

10/23/2025
...\TG-BEVIS-XS07.dgn



HORZ 0' 10' 20'
VERT 0' 5' 10'
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HOUSTON PUBLIC WORKS

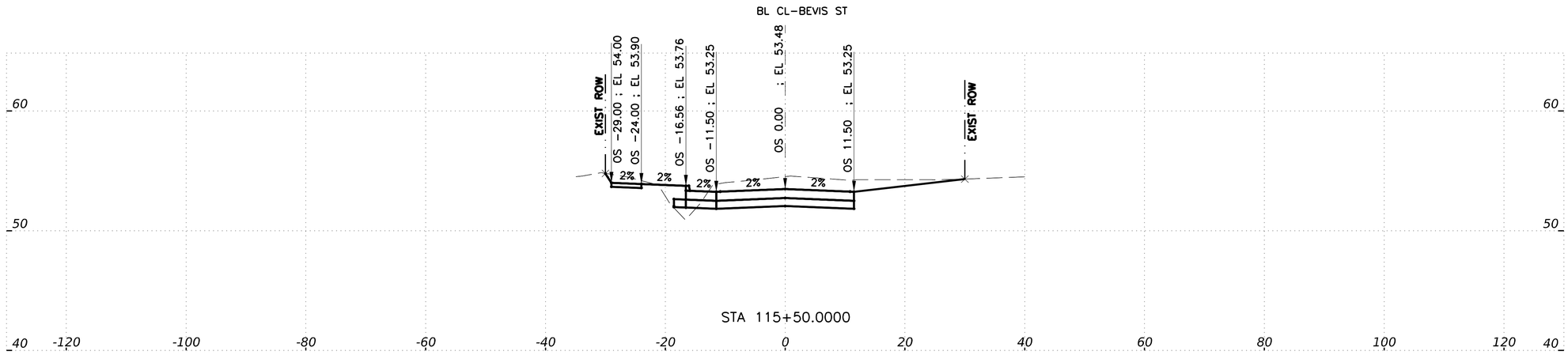
TURKEY GULLY

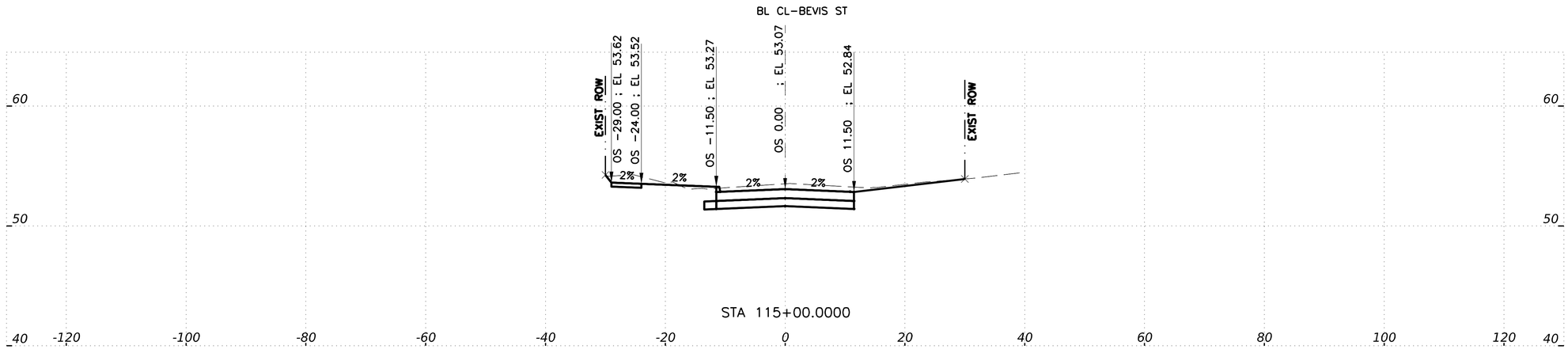
CROSS SECTIONS
BEVIS ST.

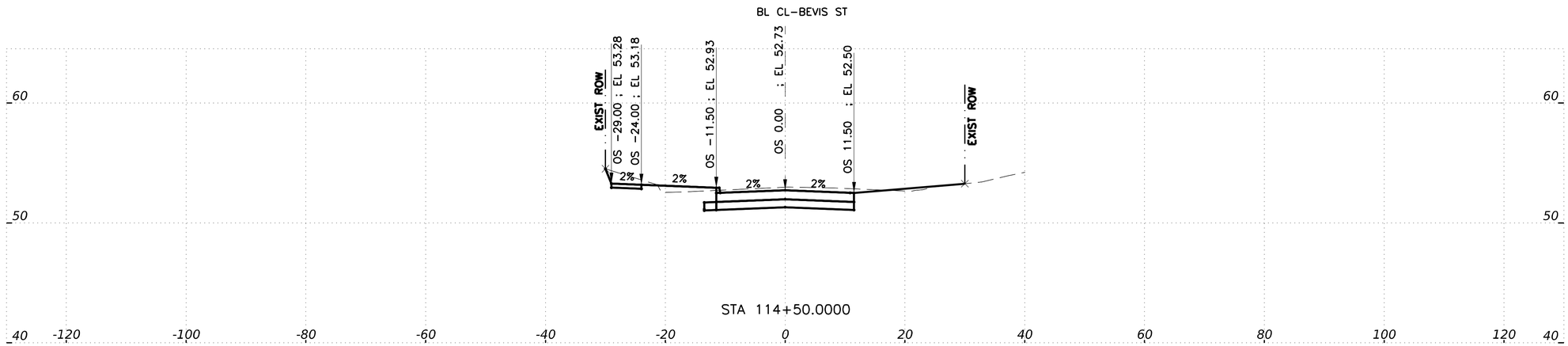
SHEET 08 OF 17

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10' (H) ; 1"=5' (V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 194 OF 278	

ThuT
10/23/2025
TG-BEVIS-XS08.dgn







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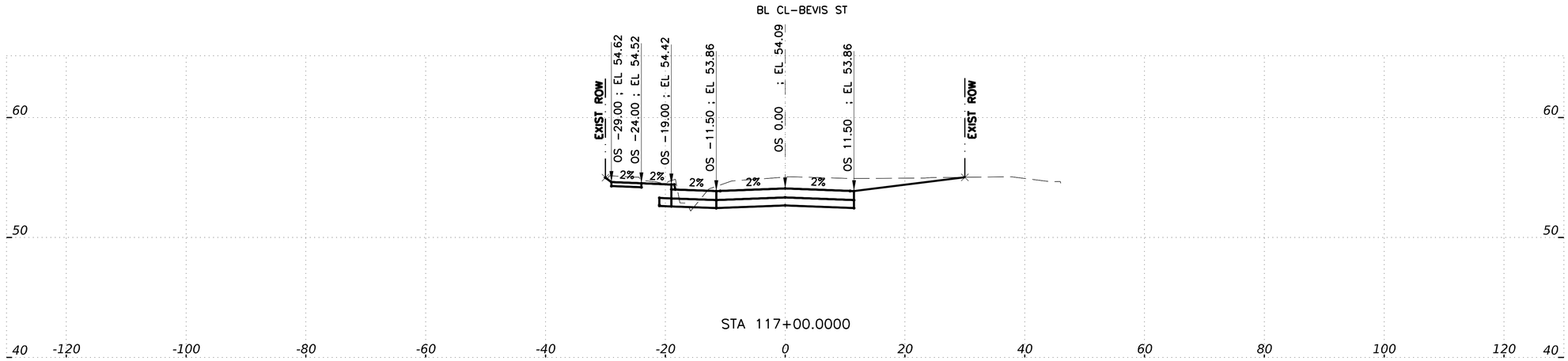
TURKEY GULLY

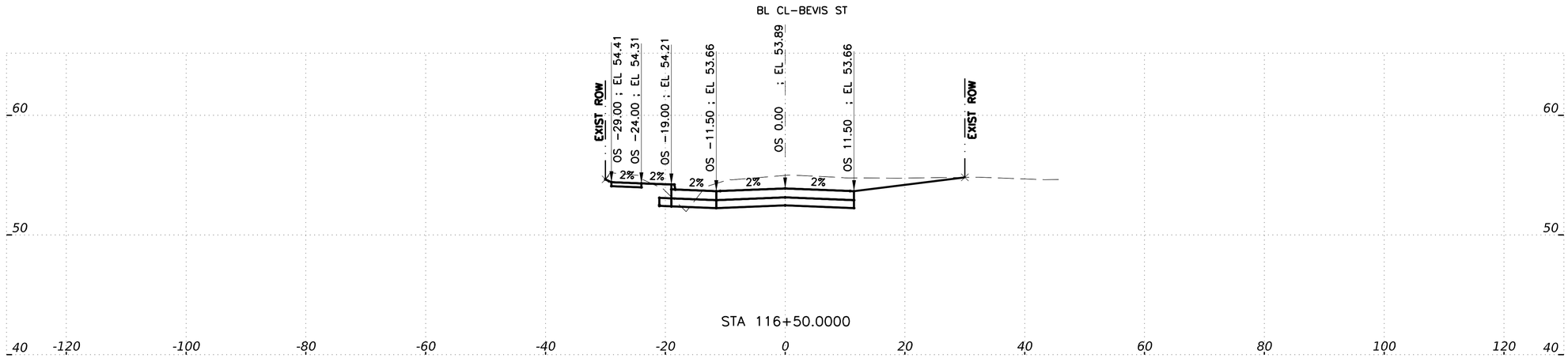
CROSS SECTIONS BEVIS ST.

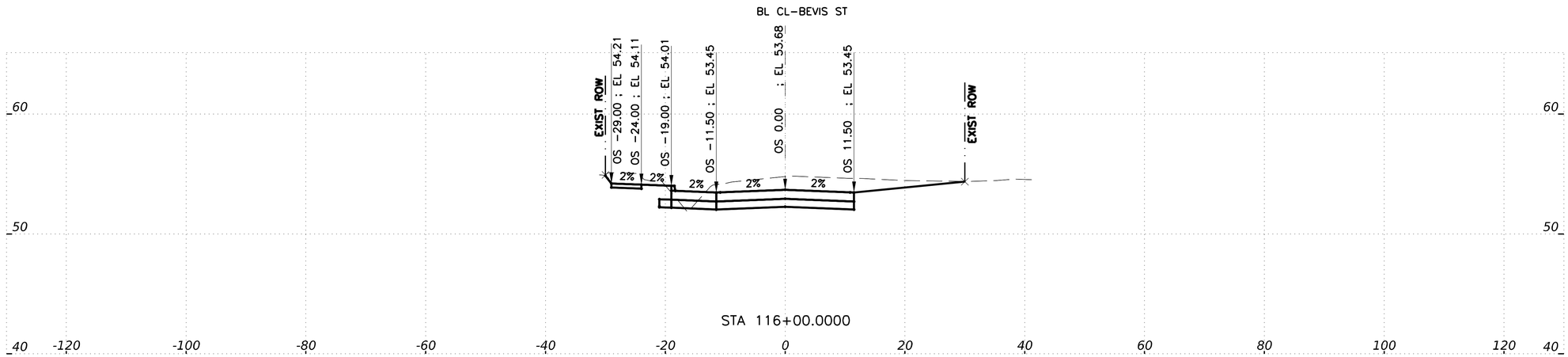
SHEET 09 OF 17

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 195 OF 278	

10/23/2025
...\BEVIS-XS09.dgn







HORZ 0' 10' 20'
VERT 0' 5' 10'
SCALE IN FEET

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TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

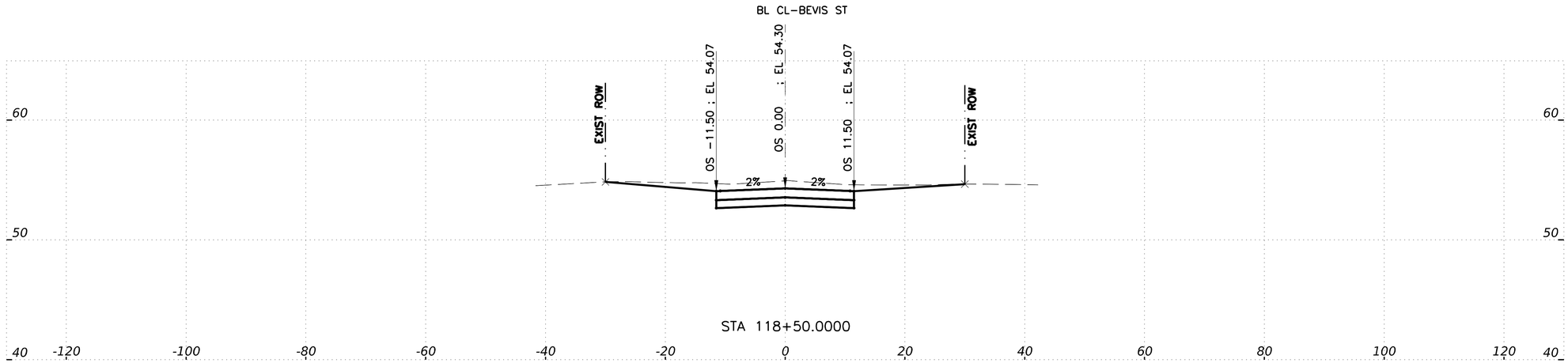
TURKEY GULLY

CROSS SECTIONS
BEVIS ST.

SHEET 10 OF 10

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 196 OF 278	

10/23/2025
...\TG-BEVIS-XS10.dgn



HORZ 0' 10' 20'
VERT 0' 5' 10'
SCALE IN FEET

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Houston, Texas 77094
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HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

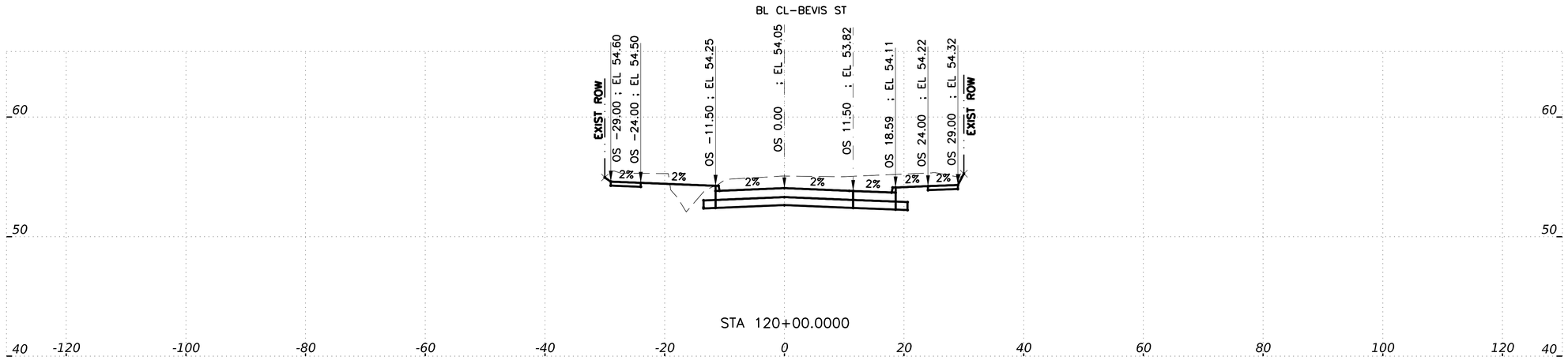
TURKEY GULLY

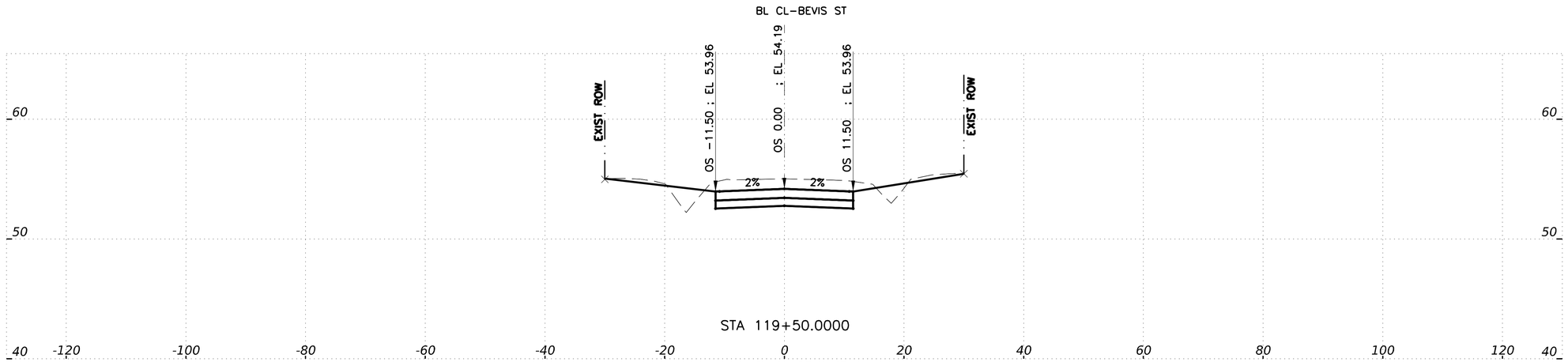
CROSS SECTIONS
BEVIS ST.

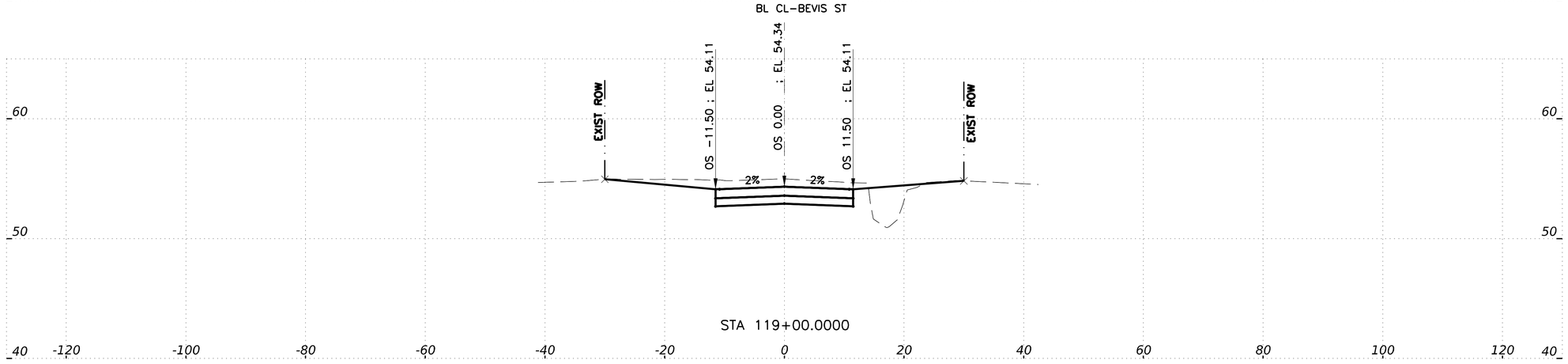
SHEET 11 OF 11

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 197 OF 278	

ThuT
10/23/2025
I:\TG-BEVIS-XS11.dgn
TG-BEVIS-XS11.dgn







HORZ 0' 10' 20'
VERT 0' 5' 10'
SCALE IN FEET

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TBPE FIRM REGISTRATION NO. F-6825

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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

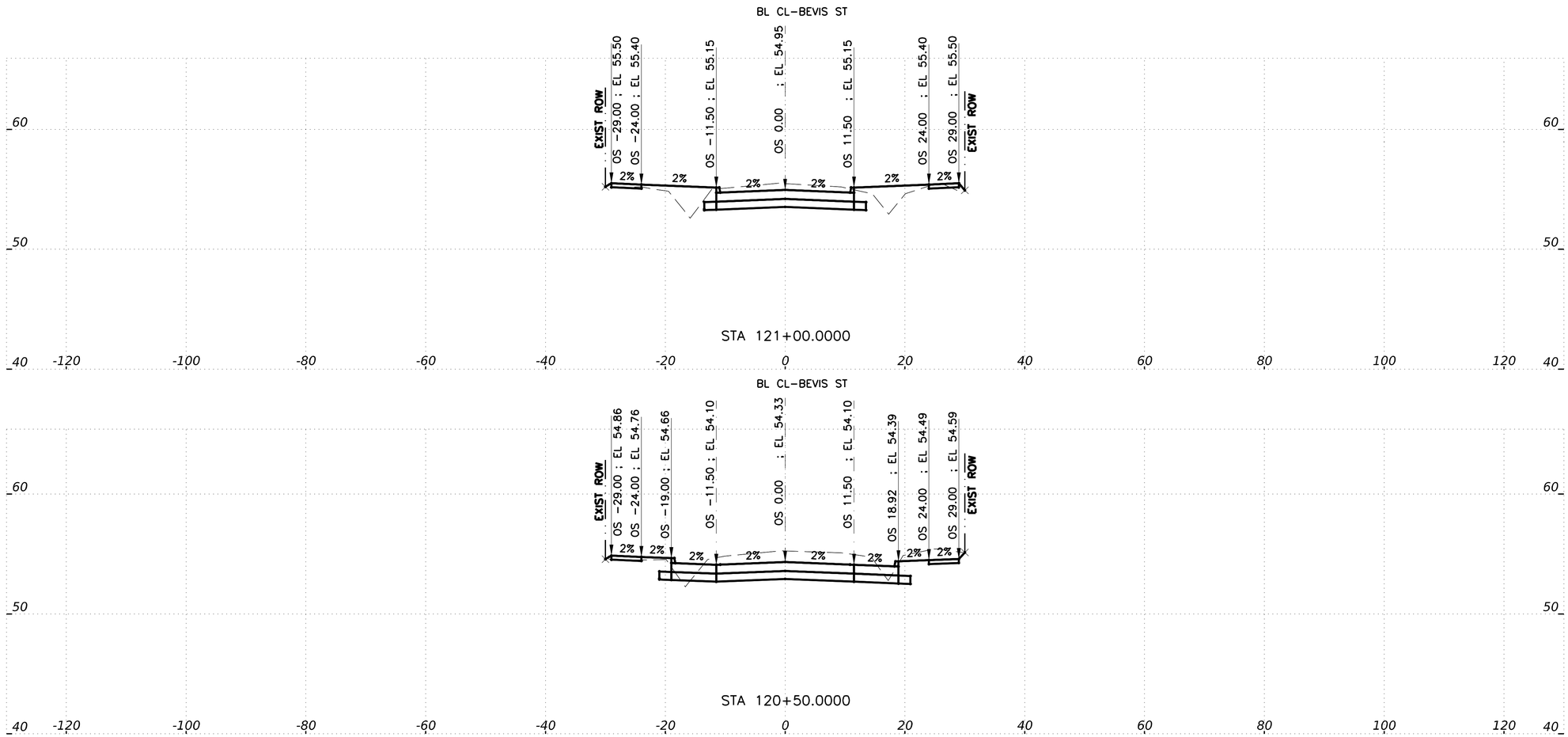
TURKEY GULLY

CROSS SECTIONS
BEVIS ST.

SHEET 12 OF 17

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **198** OF **278**	

10/23/2025
...TG-BEVIS-XS12.dgn



HORZ 0' 10' 20'
VERT 0' 5' 10'
SCALE IN FEET

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

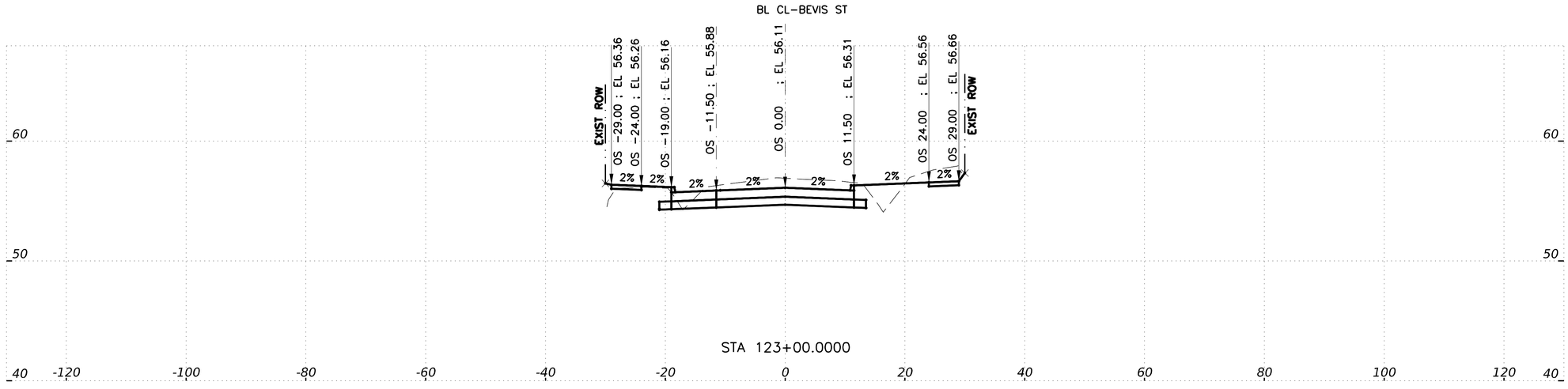
TURKEY GULLY

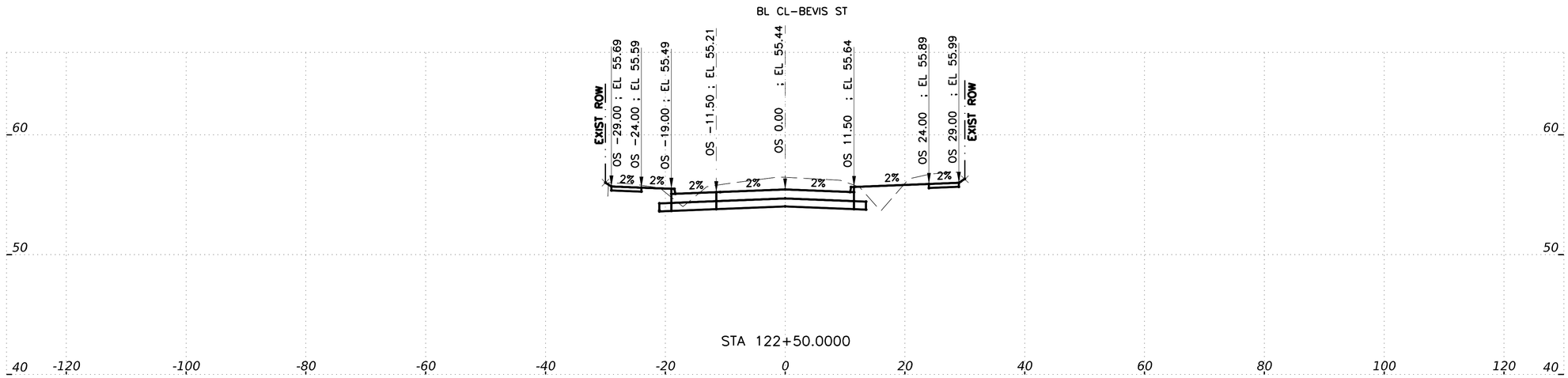
CROSS SECTIONS
BEVIS ST.

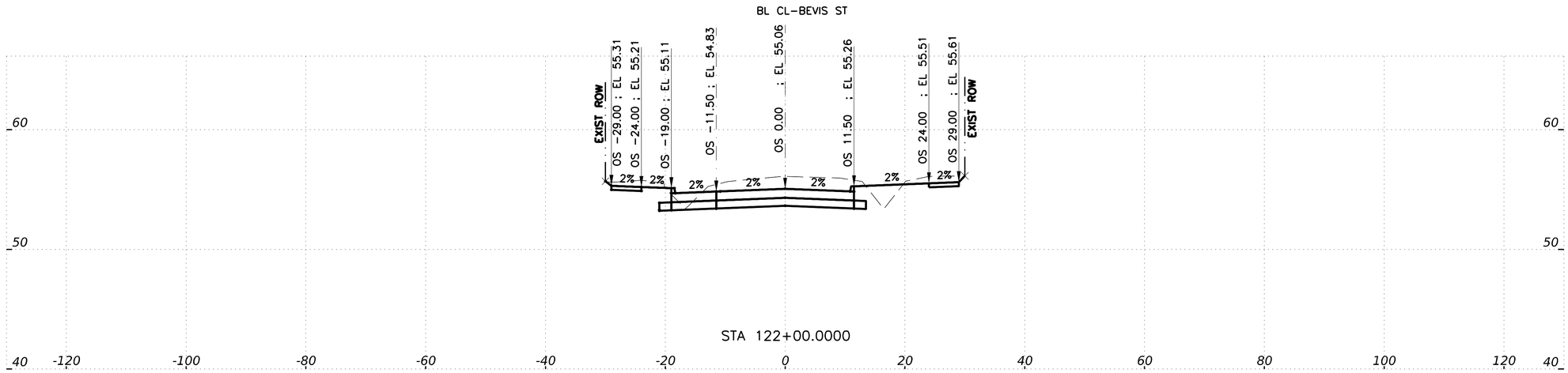
SHEET 13 OF 17

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 199 OF 278	

10/27/2025
TURKEY-BEVIS-XS13.dgn







HORZ 0' 10' 20'
VERT 0' 5' 10'
SCALE IN FEET

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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

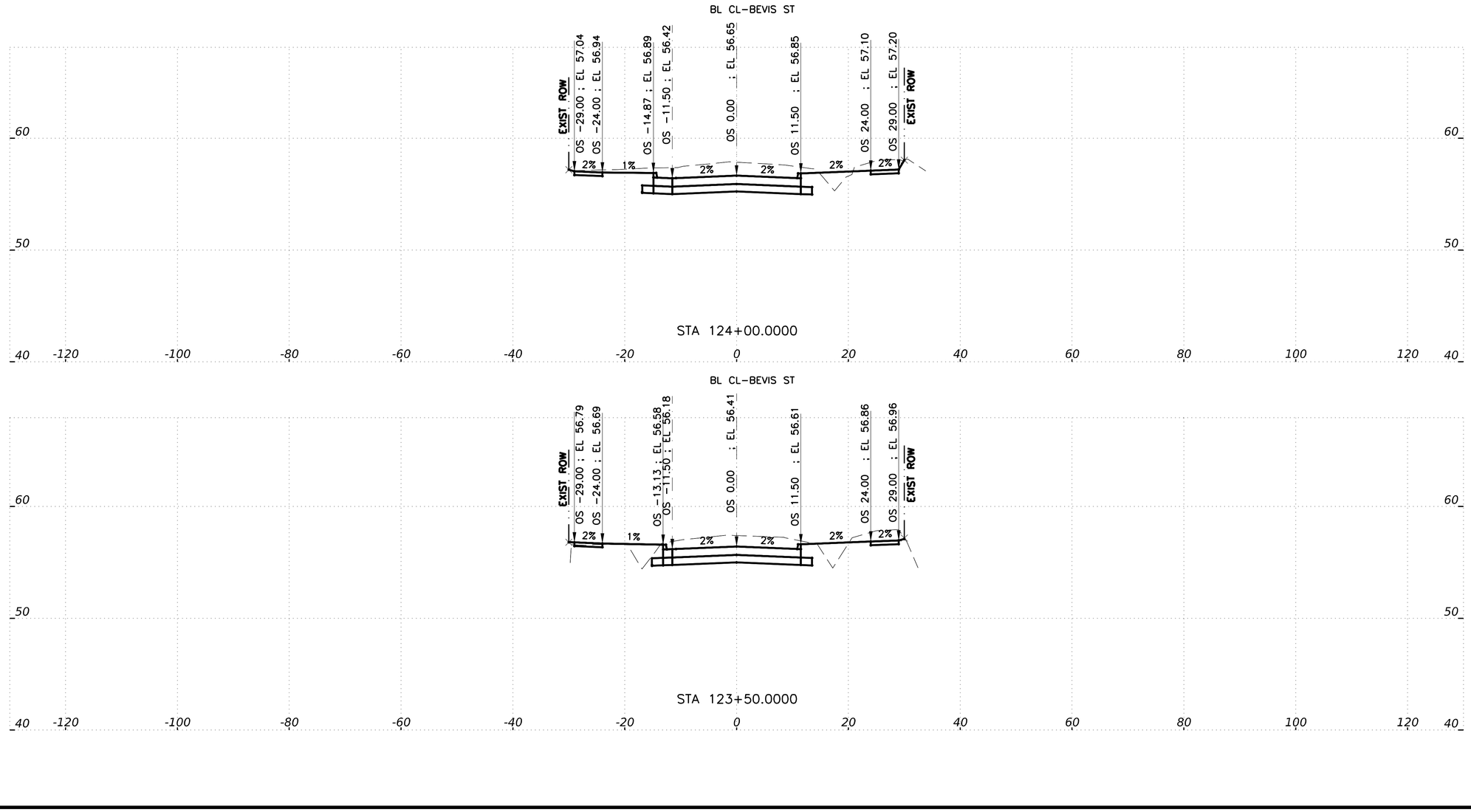
TURKEY GULLY

CROSS SECTIONS
BEVIS ST.

SHEET 14 OF 17

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 200 OF 278	

ThuT
10/23/2025
XTG-BEVIS-XS14.dgn



HORZ 0' 10' 20'
VERT 0' 5' 10'
SCALE IN FEET

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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

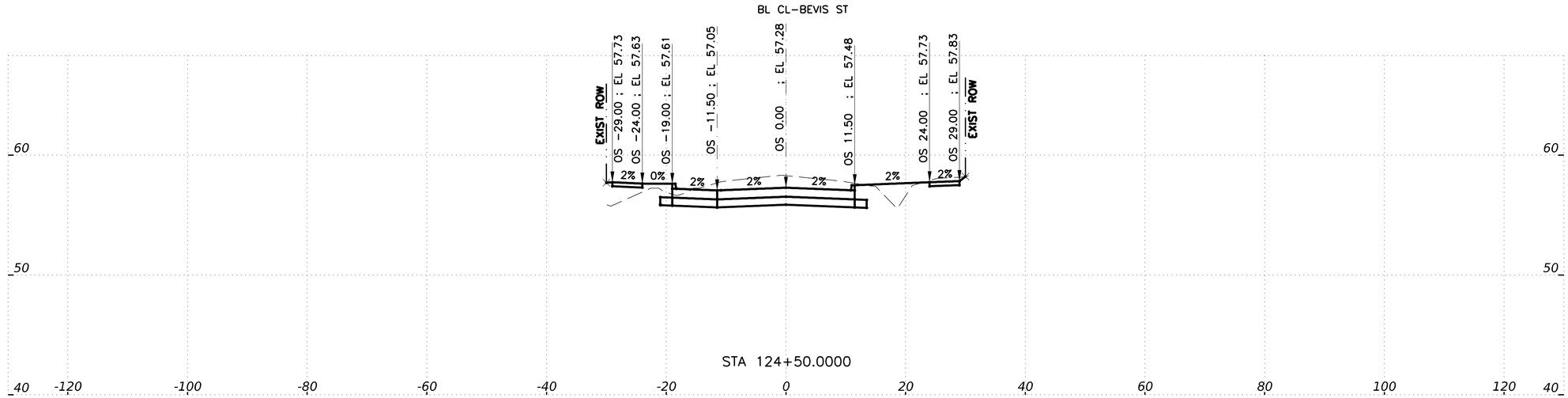
TURKEY GULLY

CROSS SECTIONS
BEVIS ST.

SHEET 15 OF 17

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 201 OF 278	

ThuT
10/23/2025
TG-BEVIS-XS15.dgn



HORZ 0' 10' 20'
VERT 0' 5' 10'
SCALE IN FEET

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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

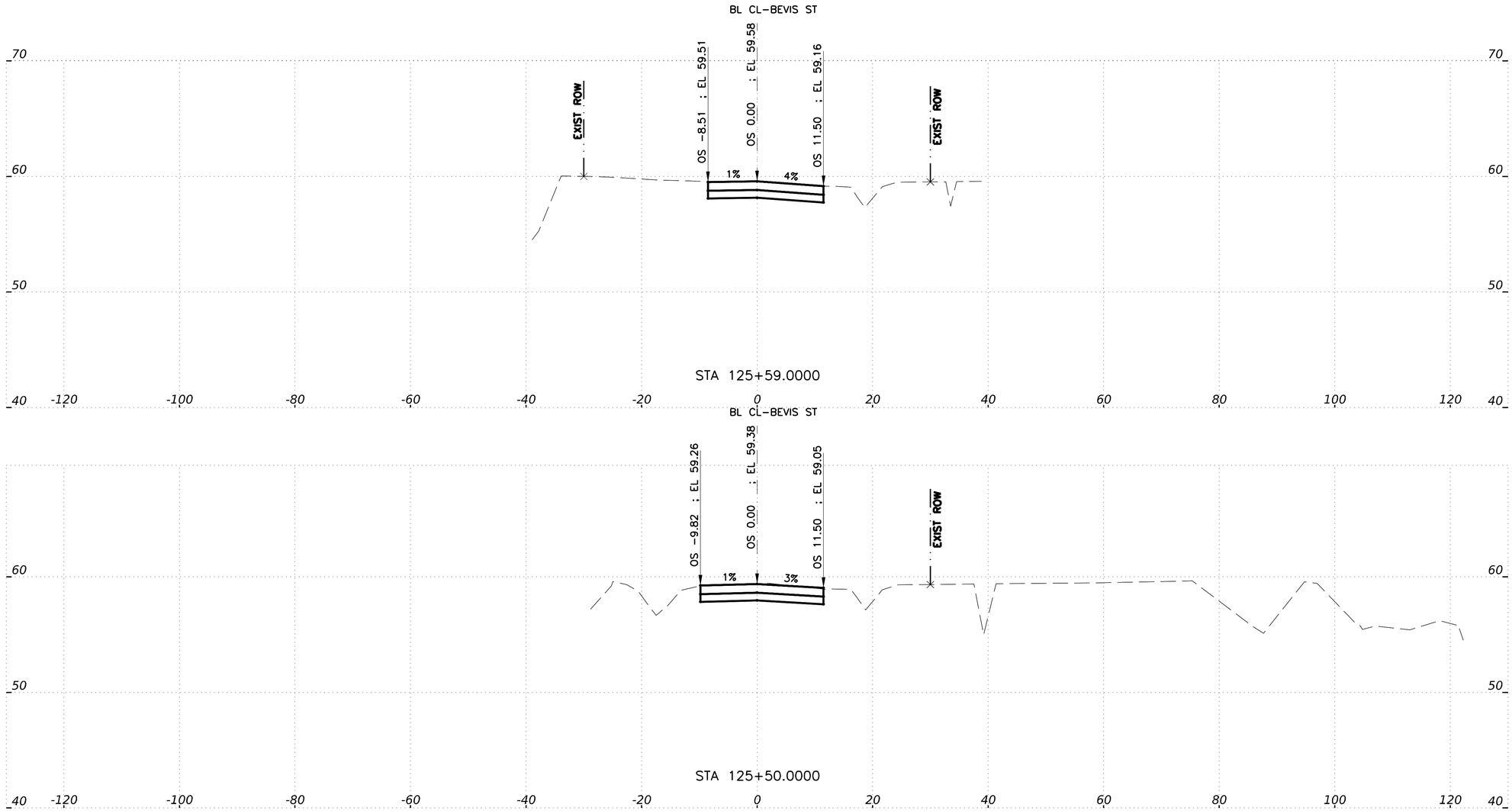
TURKEY GULLY

CROSS SECTIONS
BEVIS ST.

SHEET 16 OF 17

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **202** OF **278**	

ThuT
10/23/2025
G-BEVIS-XS16.dgn



HORZ 0' 10' 20'
VERT 0' 5' 10'
SCALE IN FEET

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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

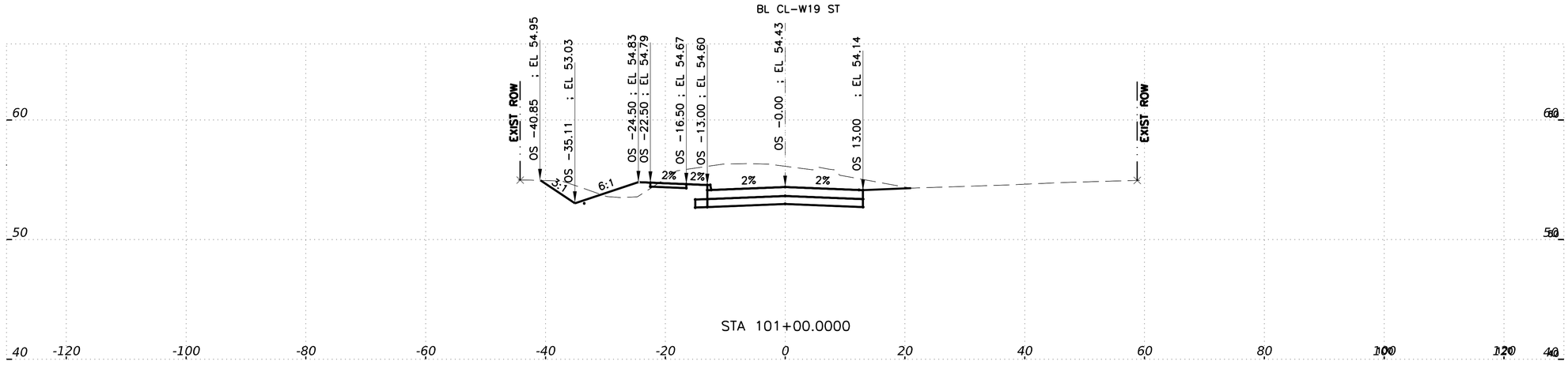
TURKEY GULLY

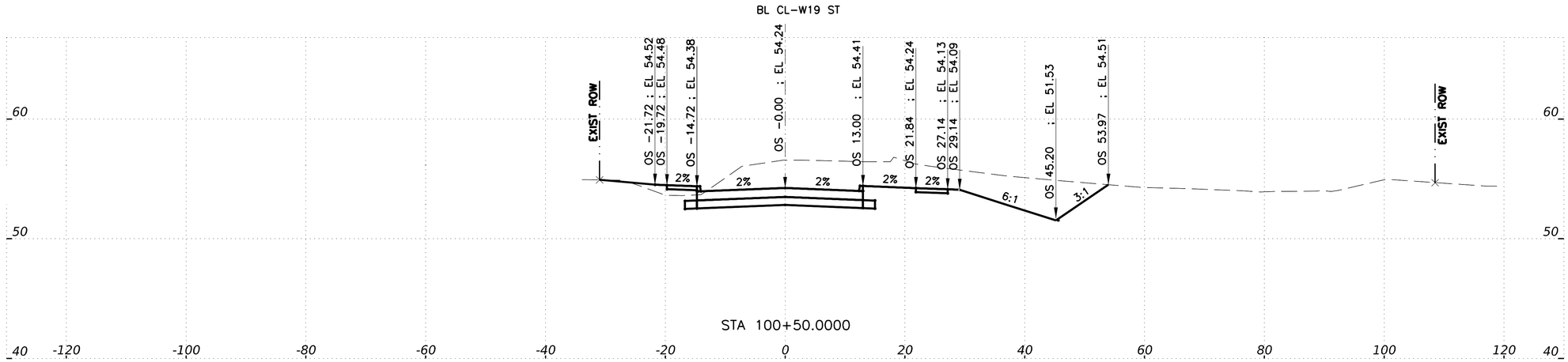
CROSS SECTIONS BEVIS ST.

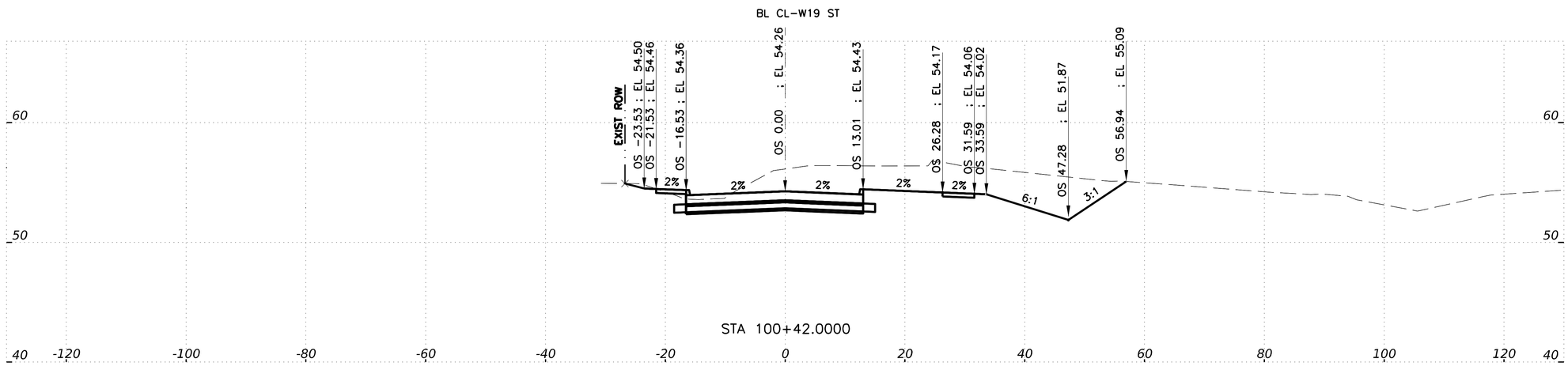
SHEET 17 OF 17

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 203 OF 278	

ThuT
10/23/2025
17-BEVIS-XS17.dgn
17-BEVIS-XS17.dgn







HORZ 0' 10' 20'
VERT 0' 5' 10'
SCALE IN FEET

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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

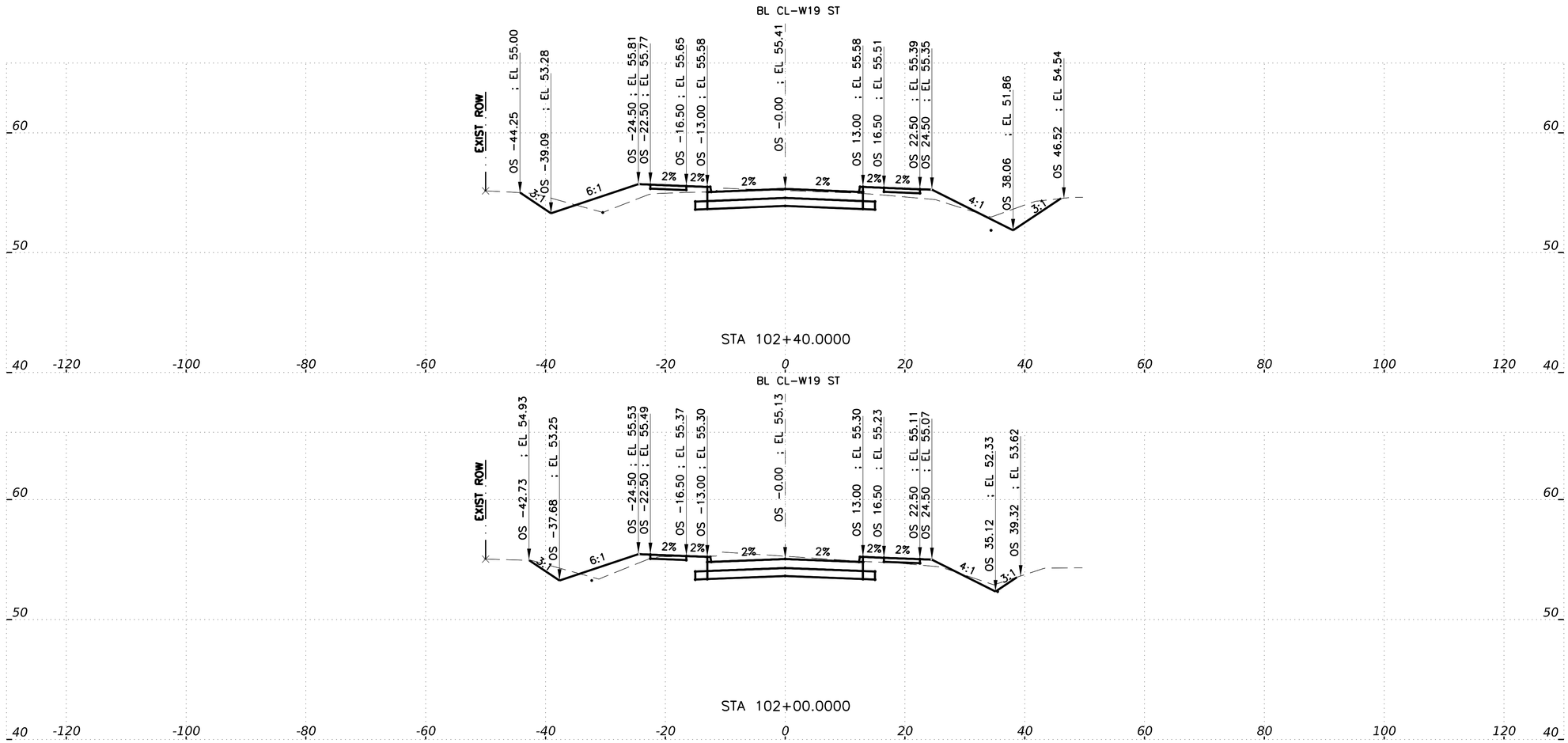
TURKEY GULLY

CROSS SECTIONS
W. 19th ST.

SHEET 1 OF 2

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **204** OF **278**	

10/23/2025
...\19TH ST-XS01.dgn



HORZ 0' 10' 20'
VERT 0' 5' 10'
SCALE IN FEET

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HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

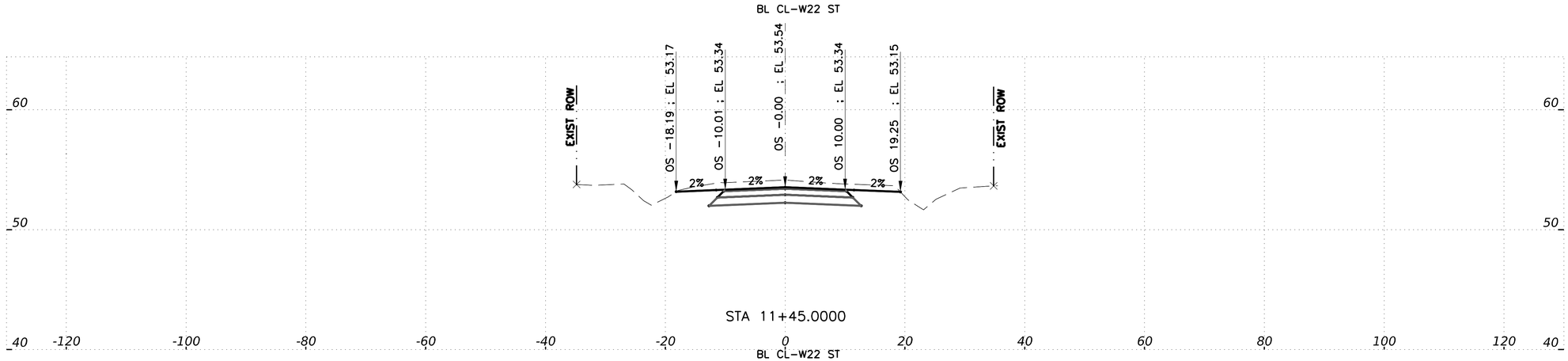
TURKEY GULLY

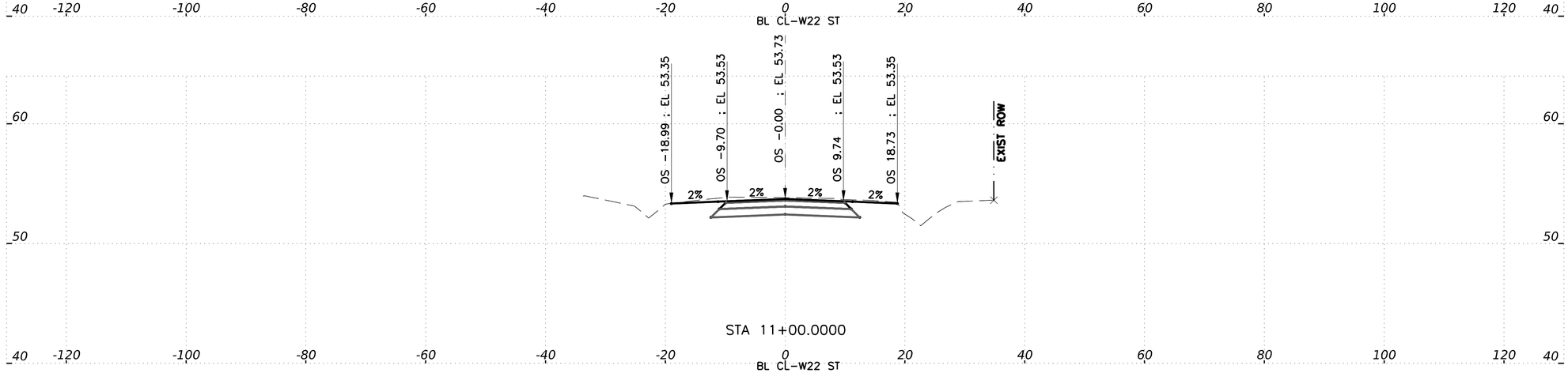
CROSS SECTIONS
W. 19th ST.

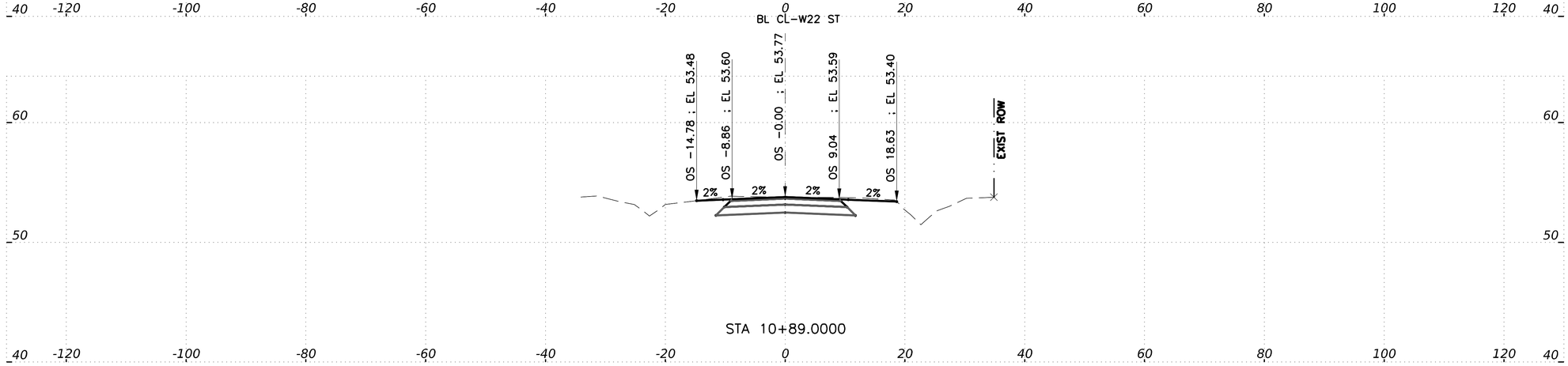
SHEET 2 OF 2

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 205 OF 278	

10/23/2025
...\TG-W19ST-XS02.dgn







HORZ 0' 10' 20'
VERT 0' 5' 10'
SCALE IN FEET

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HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

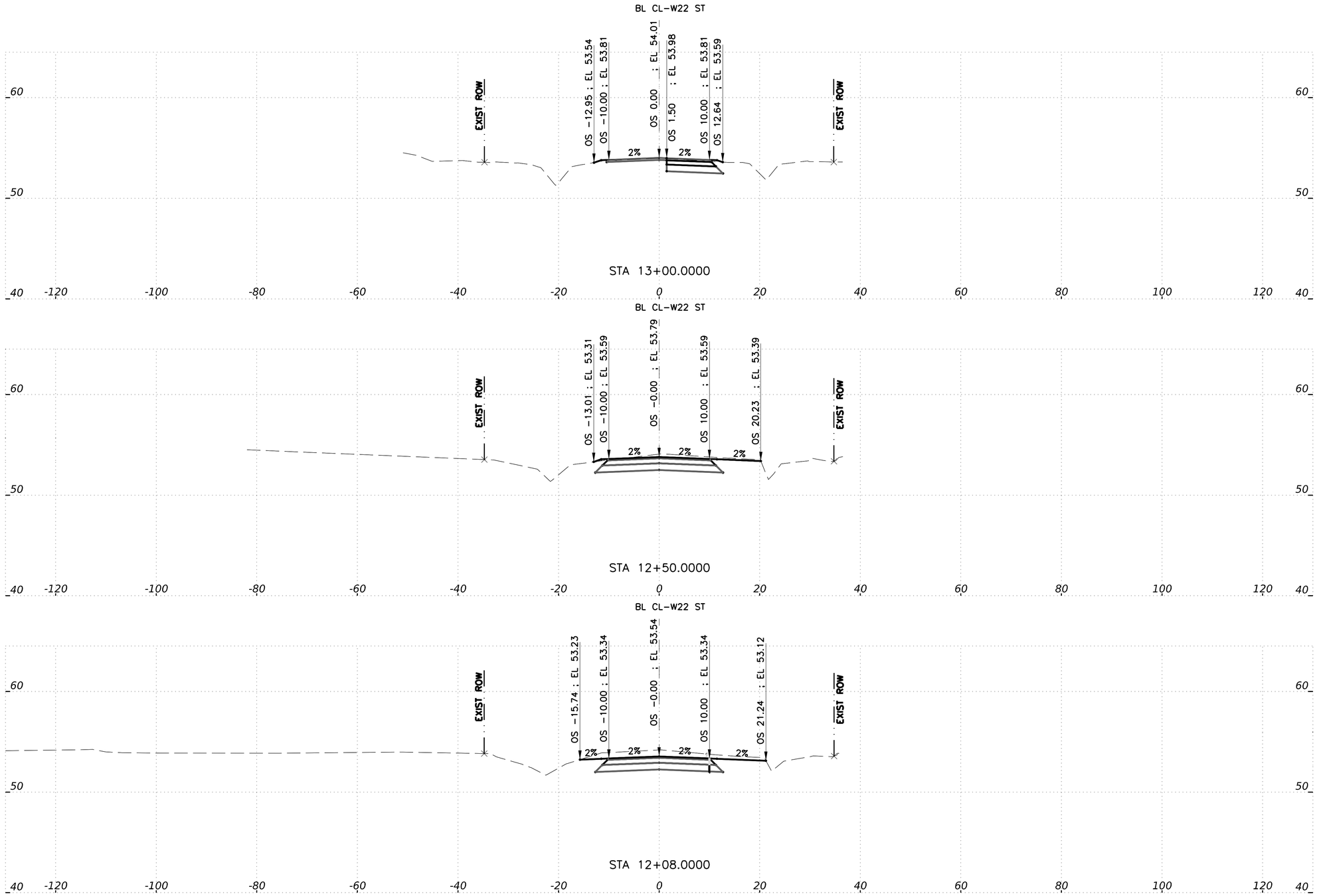
TURKEY GULLY

CROSS SECTIONS
W. 22nd ST.

SHEET 1 OF 4

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **206** OF **278**	

ThuT
10/23/2025
G-W22ST-XS01.dgn



HORZ 0' 10' 20'
VERT 0' 5' 10'
SCALE IN FEET

IDCUS
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Houston, Texas 77094
(713) 541-5591
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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

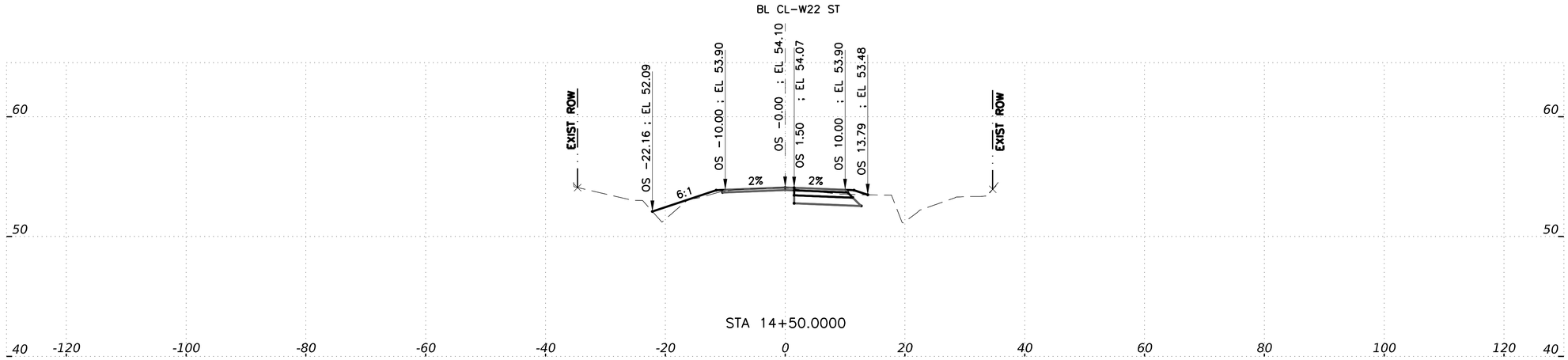
CROSS SECTIONS
W. 22nd ST.

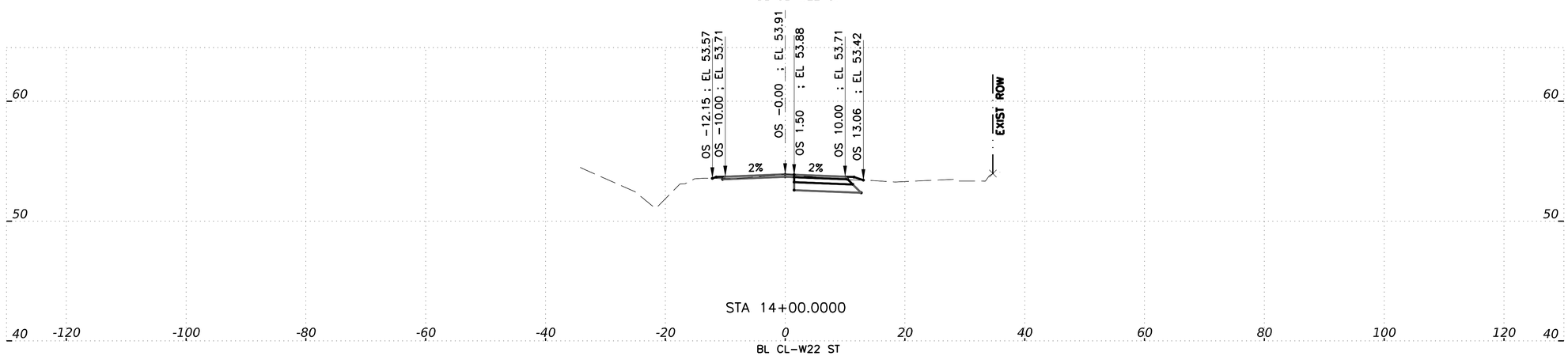
SHEET 2 OF 4

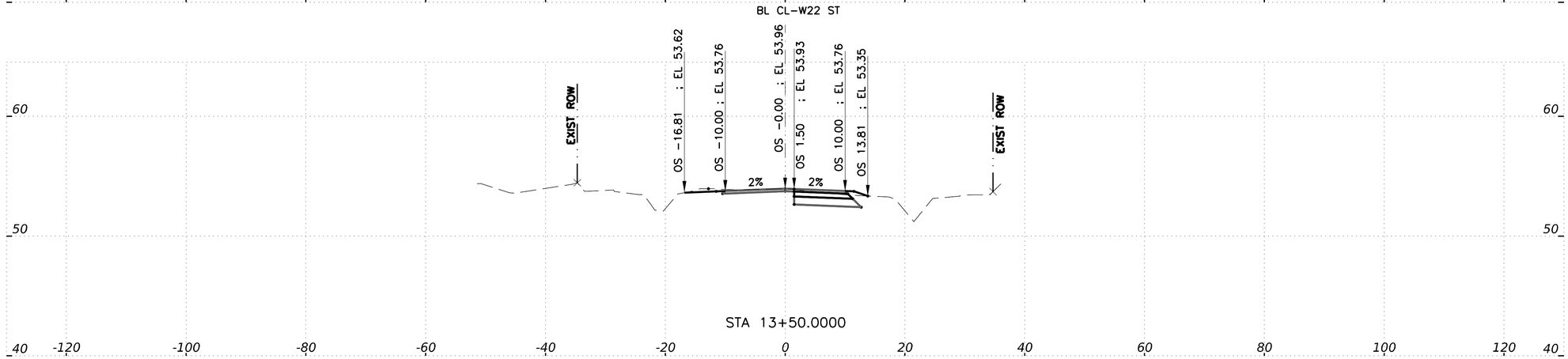
WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10' (H) ; 1"=5' (V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **207** OF **278**	

10/23/2025
...TG-W22ST-XS02.dgn

TG-W22ST-XS02.dgn







HORZ 0' 10' 20'
VERT 0' 5' 10'
SCALE IN FEET

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Houston, Texas 77094
(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

THESE PLANS ARE PRELIMINARY AND ARE BEING ISSUED FOR REVIEW BY PUBLIC AGENCIES AND OTHER PRELIMINARY PURPOSES. WHEN ISSUED IN FINAL FORM THEY WILL BE SEALED, SIGNED, AND DATED BY THE RESPONSIBLE ENGINEER.

RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

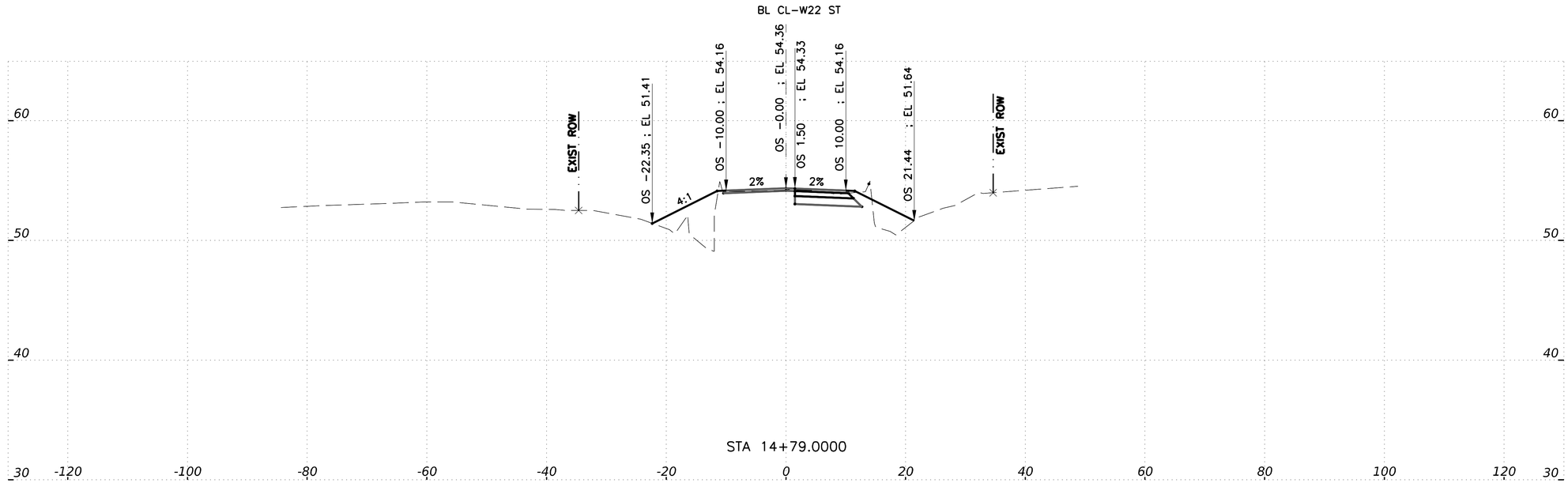
TURKEY GULLY

CROSS SECTIONS
W. 22nd ST.

SHEET 3 OF 4

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10' (H) ; 1"=5' (V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **208** OF **278**	

10/23/2025
...TG-W22ST-XS03.dgn



HORZ 0' 10' 20'
VERT 0' 5' 10'
SCALE IN FEET

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591

TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

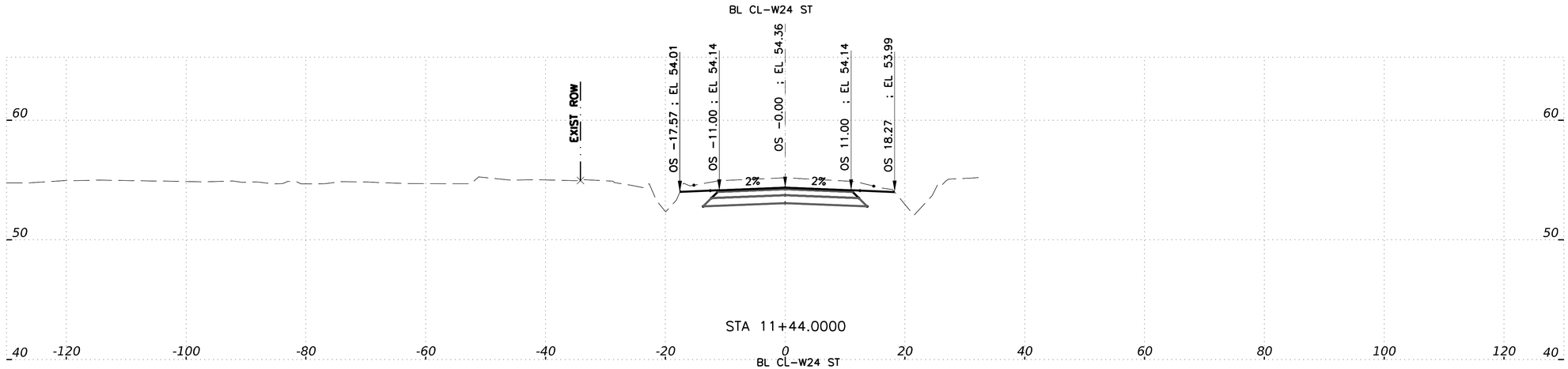
TURKEY GULLY

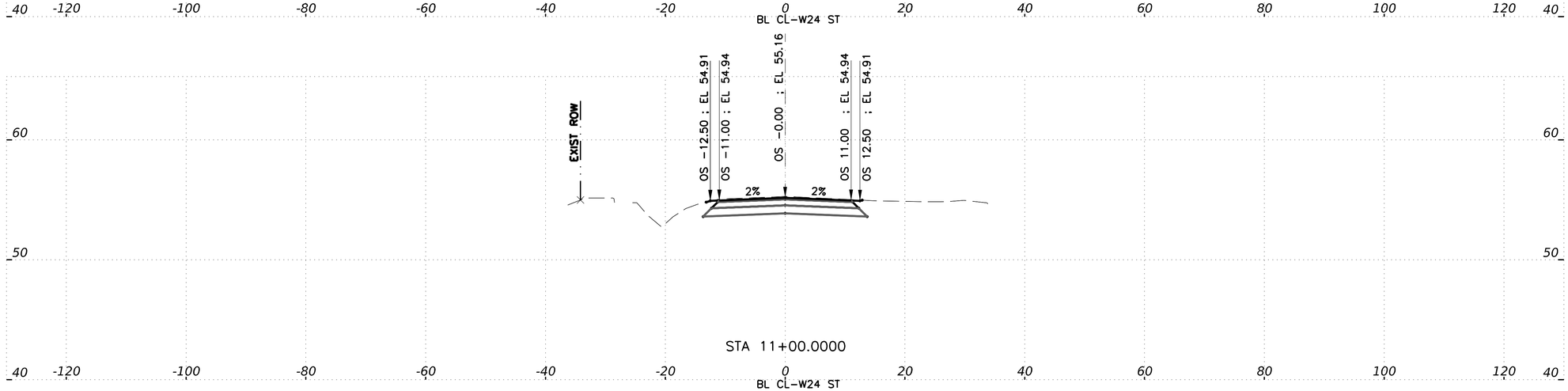
CROSS SECTIONS
W. 22nd ST.

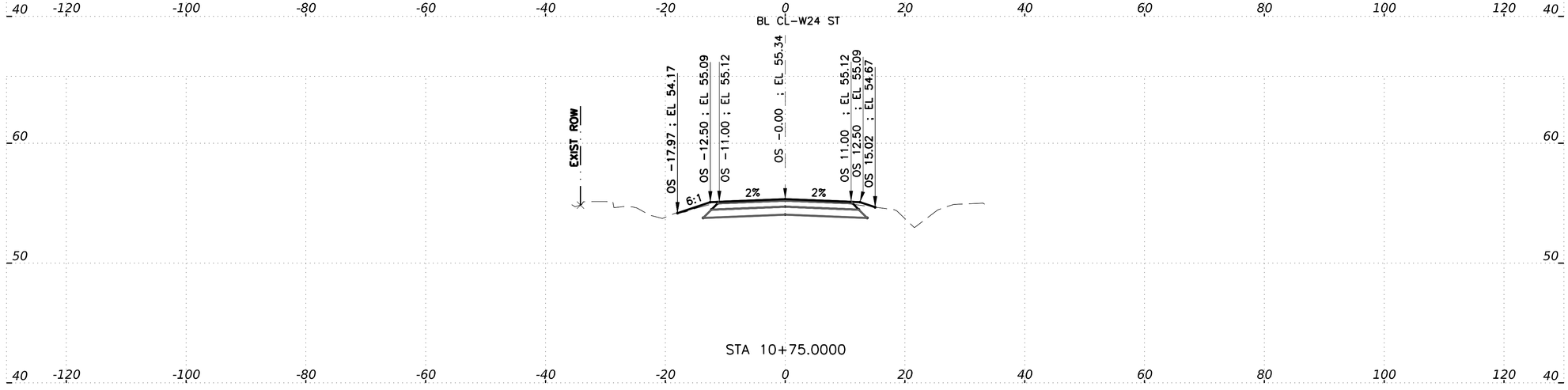
SHEET 4 OF 4

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **209** OF **278**	

10/23/2025
TG-W22ST-XS04.dgn







HORZ 0' 10' 20'
VERT 0' 5' 10'
SCALE IN FEET

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

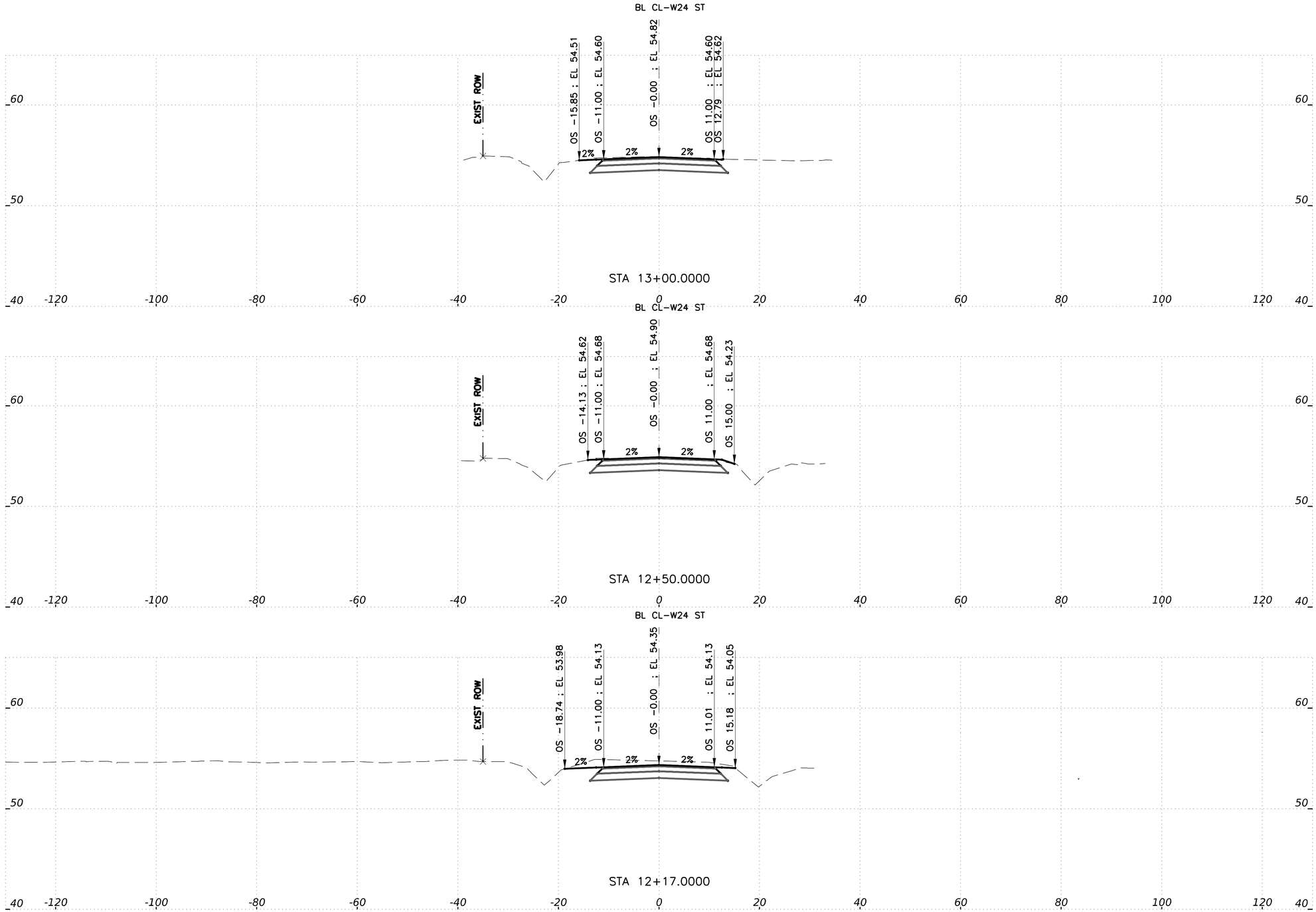
TURKEY GULLY

CROSS SECTIONS
W. 24th ST.

SHEET 1 OF 4

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 210 OF 278	

10/23/2025
...\10-W24ST-XS01.dgn



HORZ 0' 10' 20'
VERT 0' 5' 10'
SCALE IN FEET

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591

TBPE FIRM REGISTRATION NO. F-6825

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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

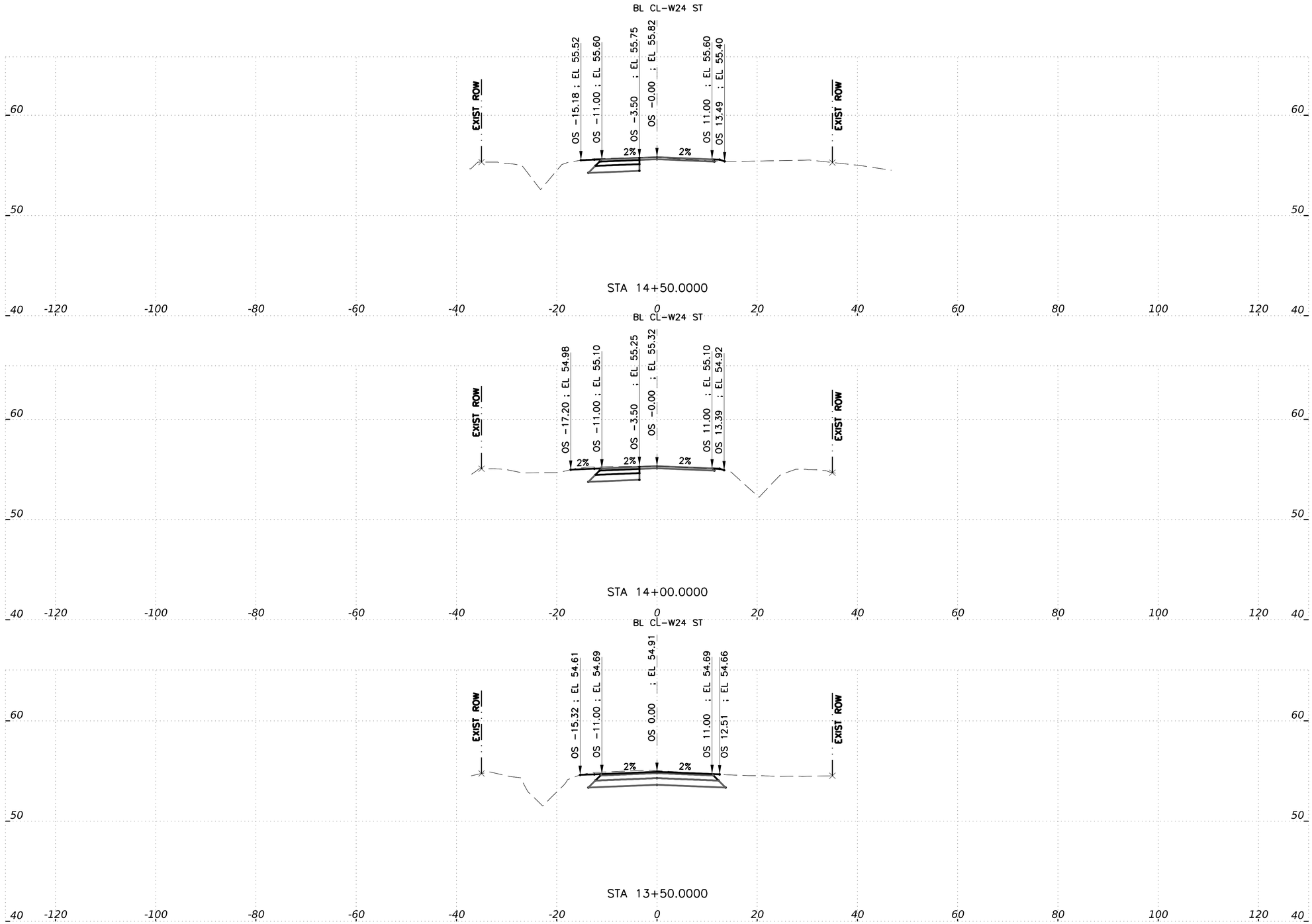
TURKEY GULLY

CROSS SECTIONS
W. 24th ST.

SHEET 2 OF 4

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 211 OF 278	

10/23/2025
...\TG-W24ST-XS02.dgn
TG-W24ST-XS02.dgn
ThuT



HORZ 0' 10' 20'
VERT 0' 5' 10'
SCALE IN FEET

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Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591
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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

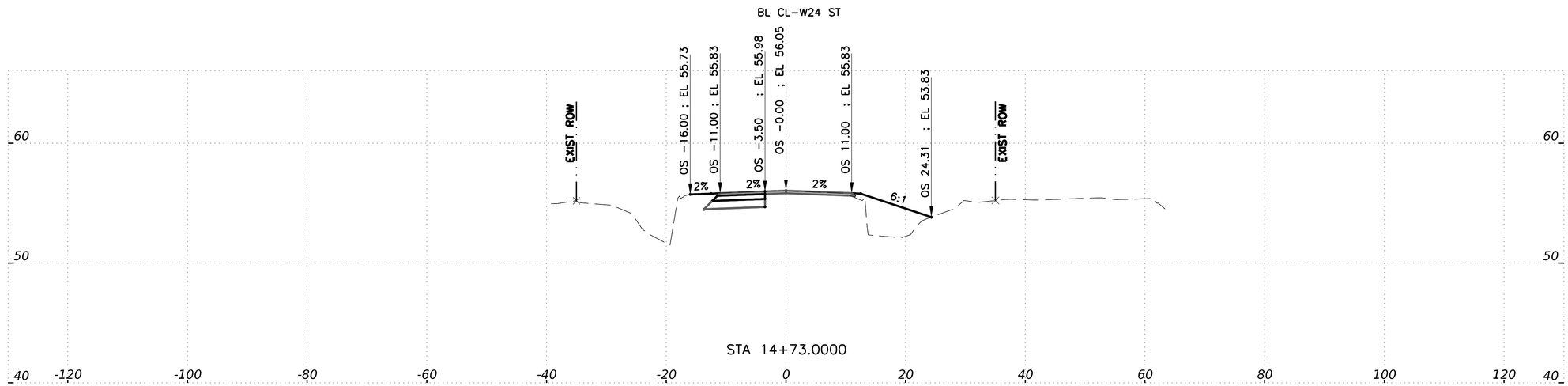
TURKEY GULLY

CROSS SECTIONS
W. 24th ST.

SHEET 3 OF 4

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **212** OF **278**	

10/23/2025
TG-W24ST-XS03.dgn
TG-W24ST-XS03.dgn
ThuT



HORZ 0' 10' 20'
VERT 0' 5' 10'
SCALE IN FEET

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591

TBPE FIRM REGISTRATION NO. F-6825

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HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

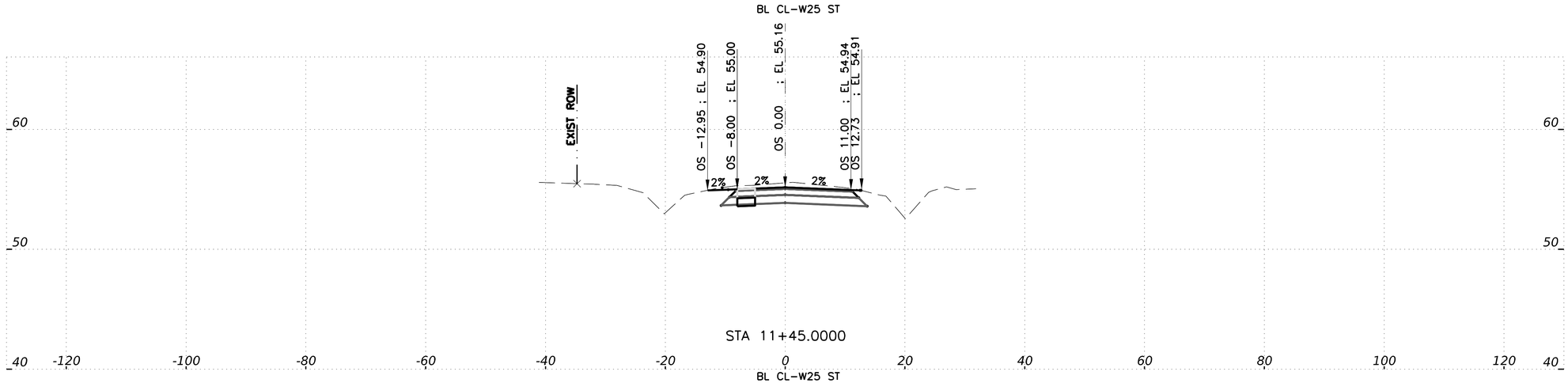
TURKEY GULLY

CROSS SECTIONS
W. 24th ST.

SHEET 4 OF 4

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 213 OF 278	

ThuT
10/23/2025
TG-W24ST-XS04.dgn
TG-W24ST-XS04.dgn



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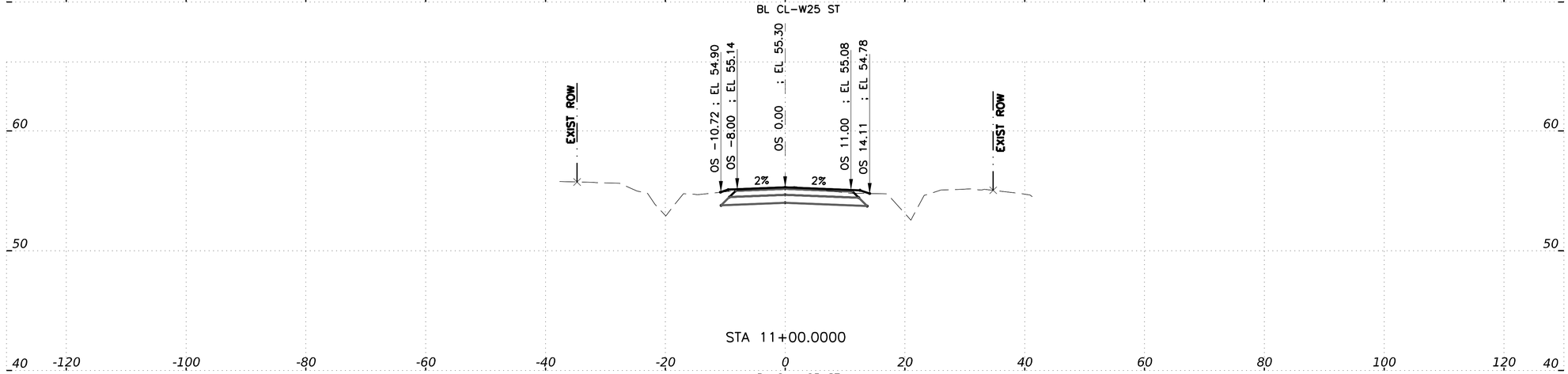

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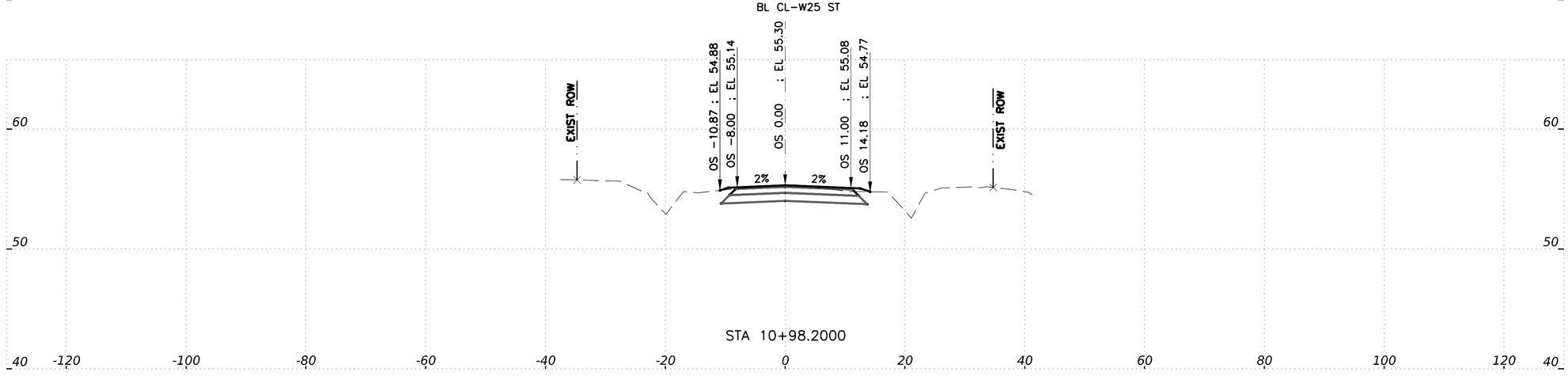

STA 10+98.2000

HORZ 0' 10' 20'
VERT 0' 5' 10'
SCALE IN FEET

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591

TBPE FIRM REGISTRATION NO. F-6825

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FB NO. P-6325

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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

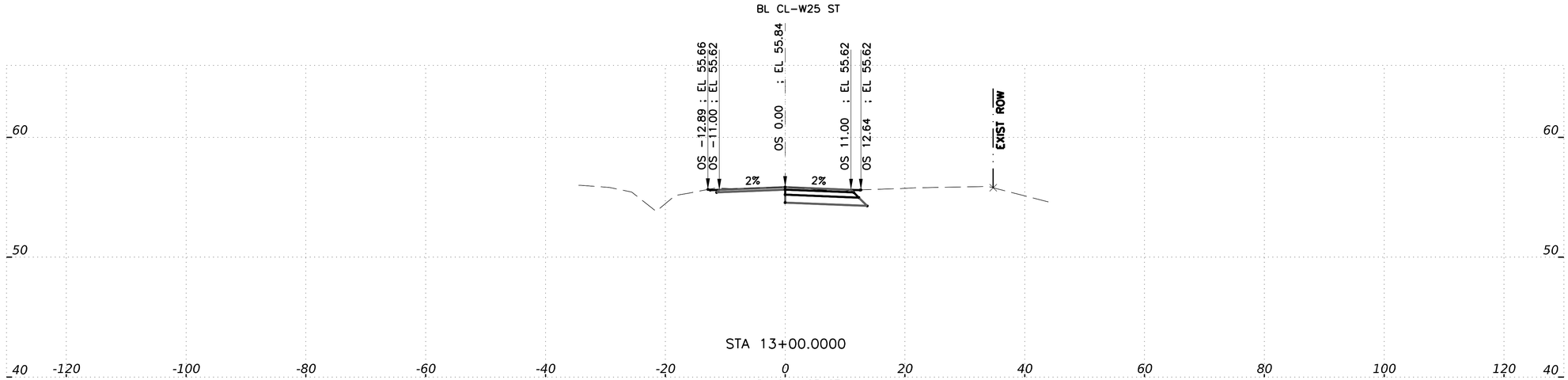
TURKEY GULLY

CROSS SECTIONS
W. 25th ST.

SHEET 1 OF 4

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 214 OF 278	

10/23/2025
...\TC-W25ST-XS01.dgn



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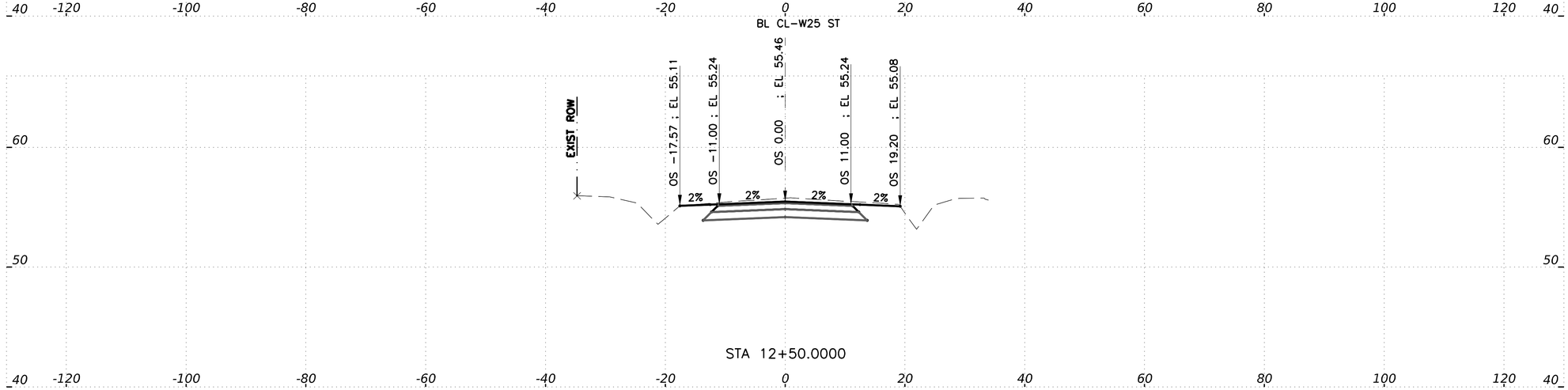
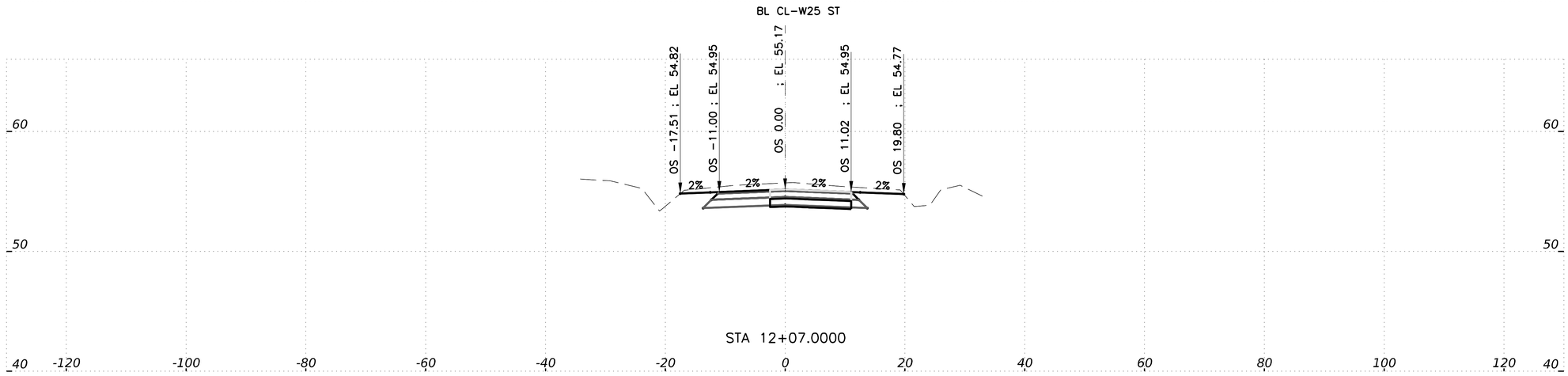


STA 12+50.0000



STA 12+07.0000

HORZ 0' 10' 20'
VERT 0' 5' 10'
SCALE IN FEET

IDCUS
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15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591
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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

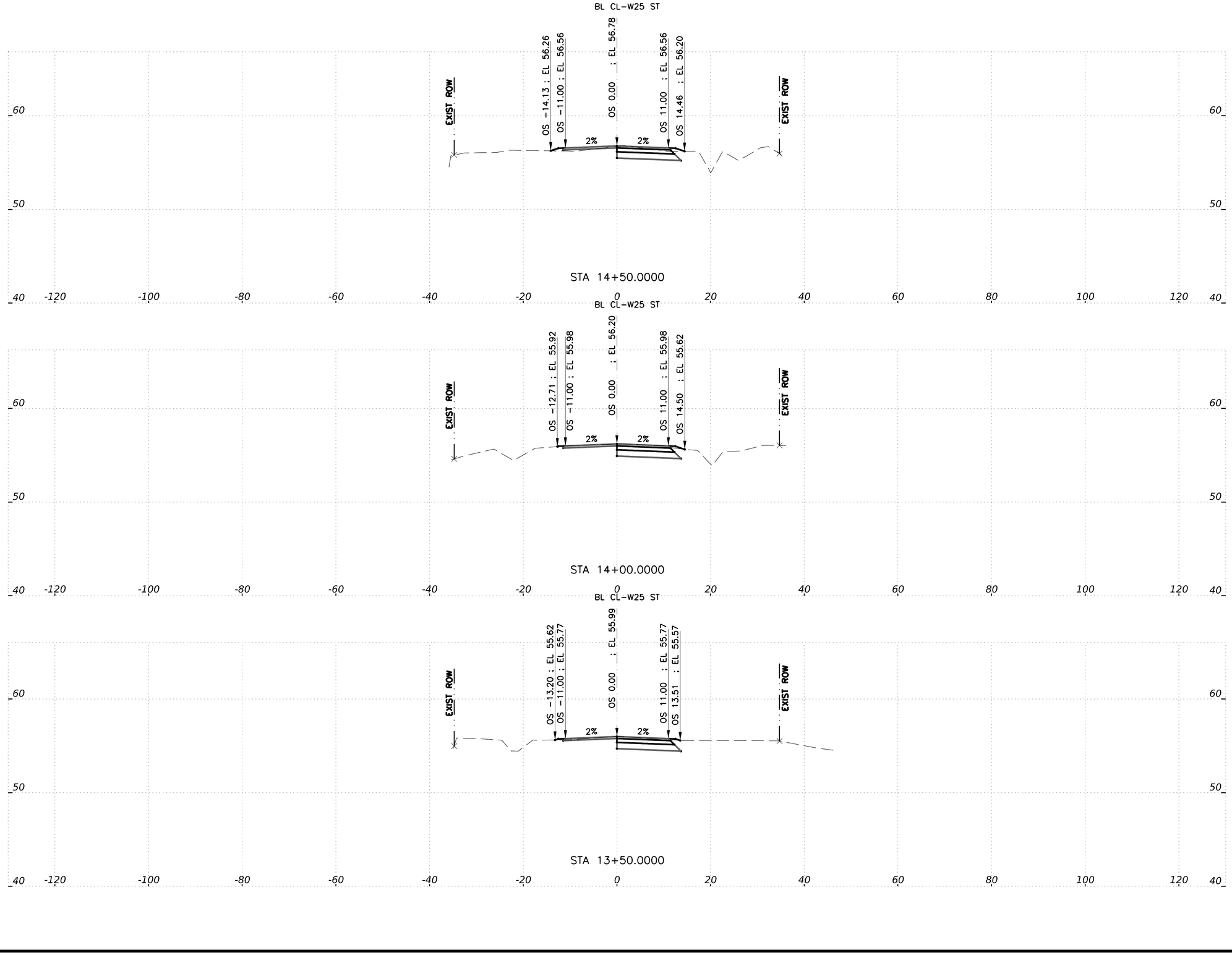
TURKEY GULLY

CROSS SECTIONS
W. 25th ST.

SHEET 2 OF 4

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 215 OF 278	

10/23/2025
...\TG-W25ST-XS02.dgn



HORZ 0' 10' 20'
VERT 0' 5' 10'
SCALE IN FEET

IDCUS
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(713) 541-5591

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS

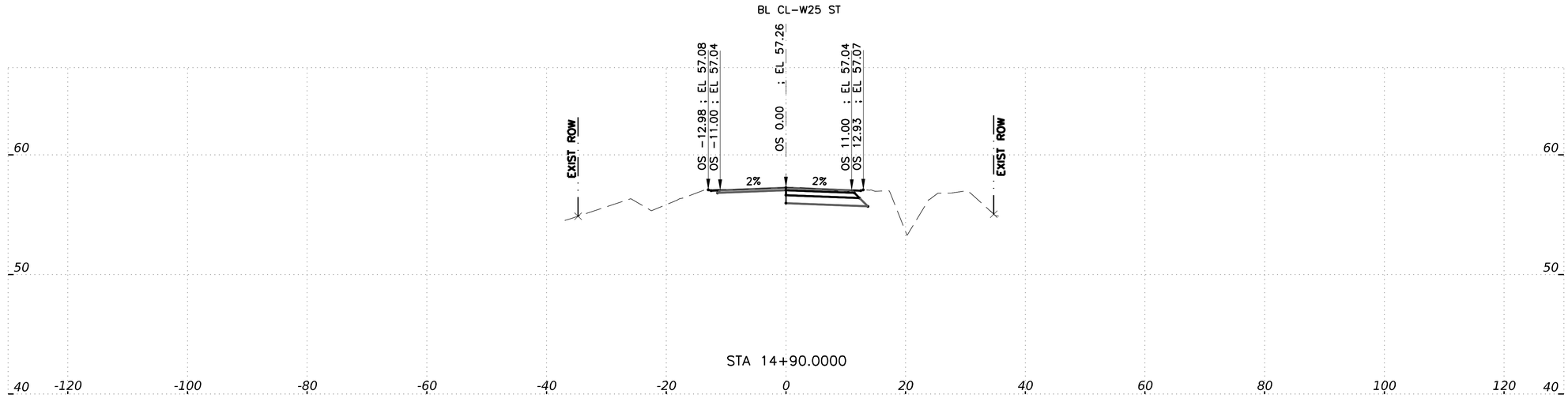
TURKEY GULLY

CROSS SECTIONS
W. 25th ST.

SHEET 3 OF 4

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 216 OF 278	

10/23/2025
TG-W25ST-XS03.dgn



HORZ 0' 10' 20'
VERT 0' 5' 10'
SCALE IN FEET

IDCUS
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15915 Katy Freeway, Suite 300
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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

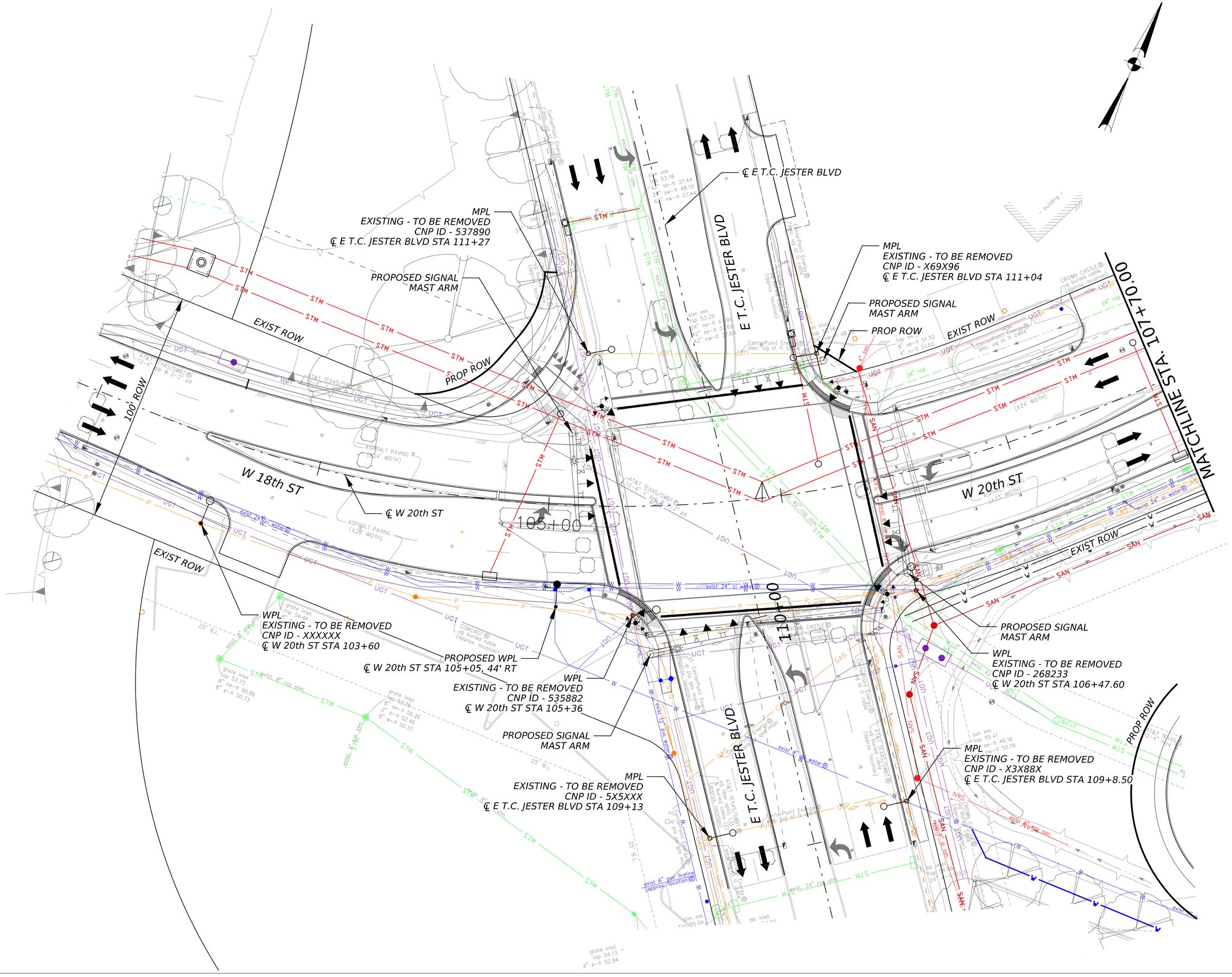
TURKEY GULLY

CROSS SECTIONS
W. 25th ST.

SHEET 4 OF 4

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=10'(H) ; 1"=5'(V)	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **217** OF **278**	

ThuT
10/23/2025
TG-W25ST-XS04.dgn
TG-W25ST-XS04.dgn



LEGEND:

- DIRECTION OF TRAFFIC
- EXISTING MPL TO BE REMOVED
- PROPOSED MPL
- EXISTING WPL TO BE REMOVED
- EXISTING WPL TO REMAIN
- PROPOSED WPL

NOTES:

1. ALL EXISTING POLES SHOWN TO BE REMOVED WILL BE REMOVED BY CENTERPOINT UNLESS OTHERWISE NOTED.
2. PROPOSED ILLUMINATION POLE LOCATIONS ARE APPROXIMATE. FINAL LOCATIONS TO BE DETERMINED BY ENGINEER.
3. ALL EXISTING UTILITY LOCATIONS ARE APPROXIMATE. VERIFY ALL OVERHEAD AND UNDERGROUND UTILITIES PRIOR TO CONSTRUCTION. REPAIR ANY DAMAGES TO EXISTING UTILITIES OR OTHER APPURTENANCES CAUSED BY THE CONSTRUCTION AT NO ADDITIONAL COST.
4. ALL STATIONS/OFFSETS ARE WITH RESPECT TO ℄ W 20th ST OR ℄ BEVIS ST UNLESS OTHERWISE NOTED.
5. ROW IS SHOWN FOR INFORMATION ONLY.
6. CONTRACTOR SHALL FIELD VERIFY LOCATIONS OF ALL EXISTING ILLUMINATION INFRASTRUCTURE.

0′ 20′ 40′
SCALE IN FEET

infraTECH
Engineers & Innovators, LLC
TBPE REGISTRATION NO. F-18368
11111 WILCREST GREEN DR #410
HOUSTON, TEXAS 77042
OFFICE: 832-991-8164

SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
ZAHIDUL Q. SIDDIQUE, P.E. 98635
10/24/2025

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TURKEY GULLY
ILLUMINATION LAYOUT
W 20th ST
BEGIN TO STA 107+70.00

SHEET 1 OF 8

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=40′	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **218** OF **278**	

$USER$
10/24/2025
$FILEABBREV$

TURKEY_PLN_EI_ILLUMINATION_SHEET 1.dgn

WPL
EXISTING - TO BE REMOVED
CNP ID - 433427
℄ W 20th ST STA 107+88

PROPOSED MPL
℄ W 20th ST STA 107+92.5, 36' LT

MPL
EXISTING - TO BE REMOVED
CNP ID - 548187
℄ W 20th ST STA 109+08

℄ W 20th ST

PROPOSED MPL
℄ W 20th ST STA 109+95, 28' LT

MPL
EXISTING - TO BE REMOVED
CNP ID - 548188
℄ W 20th ST STA 111+46

EXIST ROW

MATCHLINE STA. 107+70.00

100' ROW

W 20th ST

PROPOSED WPL
℄ W 20th ST STA 107+88.5, 44' RT

PROPOSED WPL
℄ W 20th ST STA 109+39, 36' RT

WPL
EXISTING - TO BE REMOVED
CNP ID - 548189
℄ W 20th ST STA 109+02

PROPOSED WPL
℄ W 20th ST STA 110+87, 36' RT

WPL
EXISTING - TO BE REMOVED
CNP ID - 217526
℄ W 20th ST STA 111+12

PROPOSED WPL
℄ W 20th ST STA 112+37, 23' RT

PROP ROW

EXIST ROW

℄ W 19th ST

W 19th ST

MATCHLINE STA. 112+57.00

LEGEND:

- DIRECTION OF TRAFFIC
- EXISTING MPL TO BE REMOVED
- PROPOSED MPL
- EXISTING WPL TO BE REMOVED
- EXISTING WPL TO REMAIN
- PROPOSED WPL

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0′ 20′ 40′
SCALE IN FEET

infraTECH
Engineers & Innovators, LLC
TBPE REGISTRATION NO. F-18368
11111 WILCREST GREEN DR #410
HOUSTON, TEXAS 77042
OFFICE: 832-991-8164

SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
ZAHIDUL Q. SIDDIQUE, P.E. 98635
10/24/2025

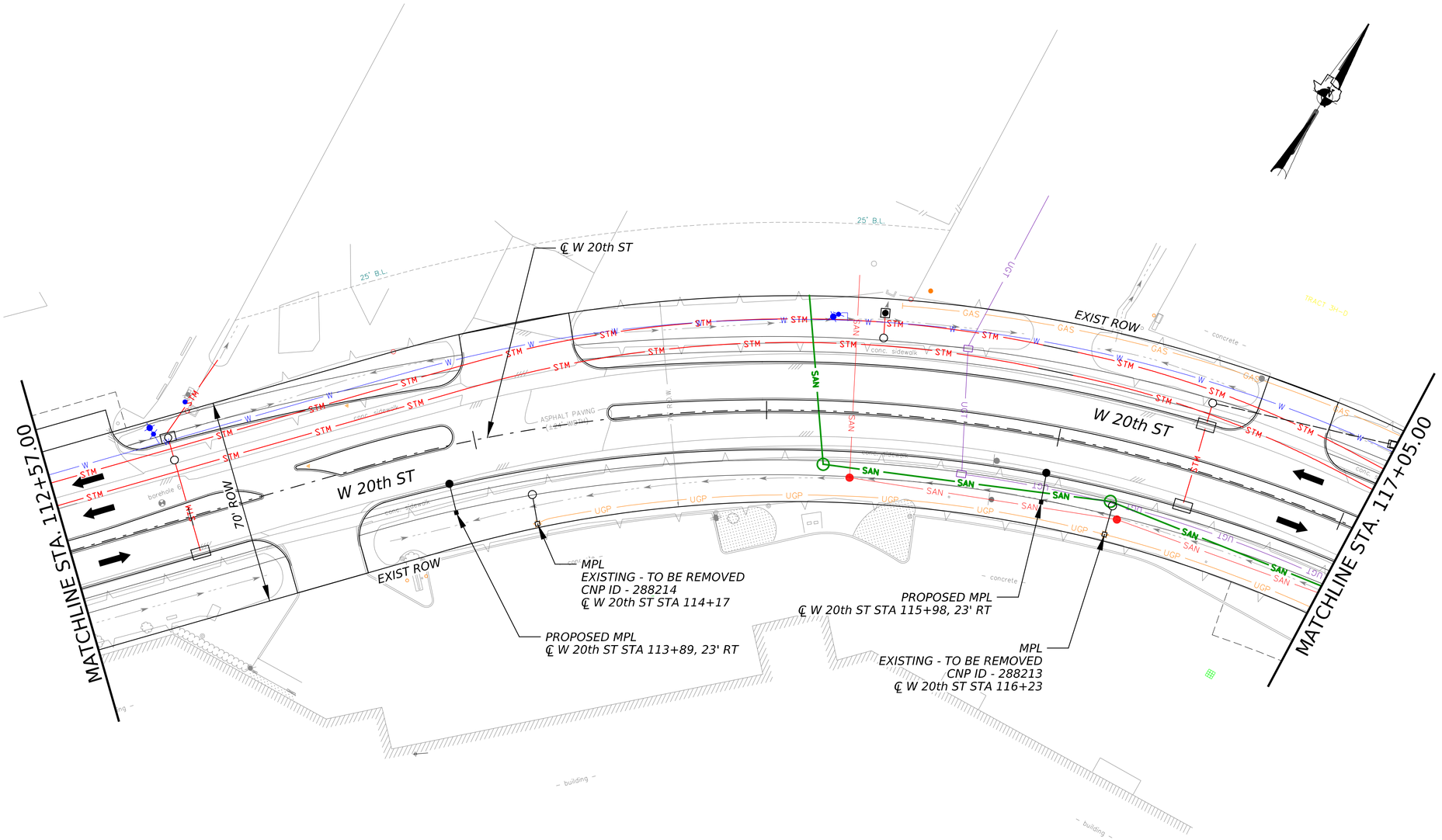
CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TURKEY GULLY
ILLUMINATION LAYOUT
W 20th ST
STA 107+70.00 TO STA 112+57.00

SHEET 2 OF 8

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=40'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **219** OF **278**	

$USER$
10/24/2025
$FILEABBREV$
TURKEY_PLN_IEI_ILLUMINATION_SHEET 2.dgn



LEGEND:

- DIRECTION OF TRAFFIC
- EXISTING MPL TO BE REMOVED
- PROPOSED MPL
- EXISTING WPL TO BE REMOVED
- EXISTING WPL TO REMAIN
- PROPOSED WPL

NOTES:

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0′ 20′ 40′
SCALE IN FEET

infraTECH
Engineers & Innovators, LLC
TBPE REGISTRATION NO. F-18368
11111 WILCREST GREEN DR #410
HOUSTON, TEXAS 77042
OFFICE: 832-991-8164

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

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RESPONSIBLE ENGINEER:
ZAHIDUL Q. SIDDIQUE, P.E. 98635
10/24/2025

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TURKEY GULLY
ILLUMINATION LAYOUT
W 20th ST
STA 112+57.00 TO STA 117+05.00

SHEET 3 OF 8

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
1"=40′	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **220** OF **278**	

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10/24/2025
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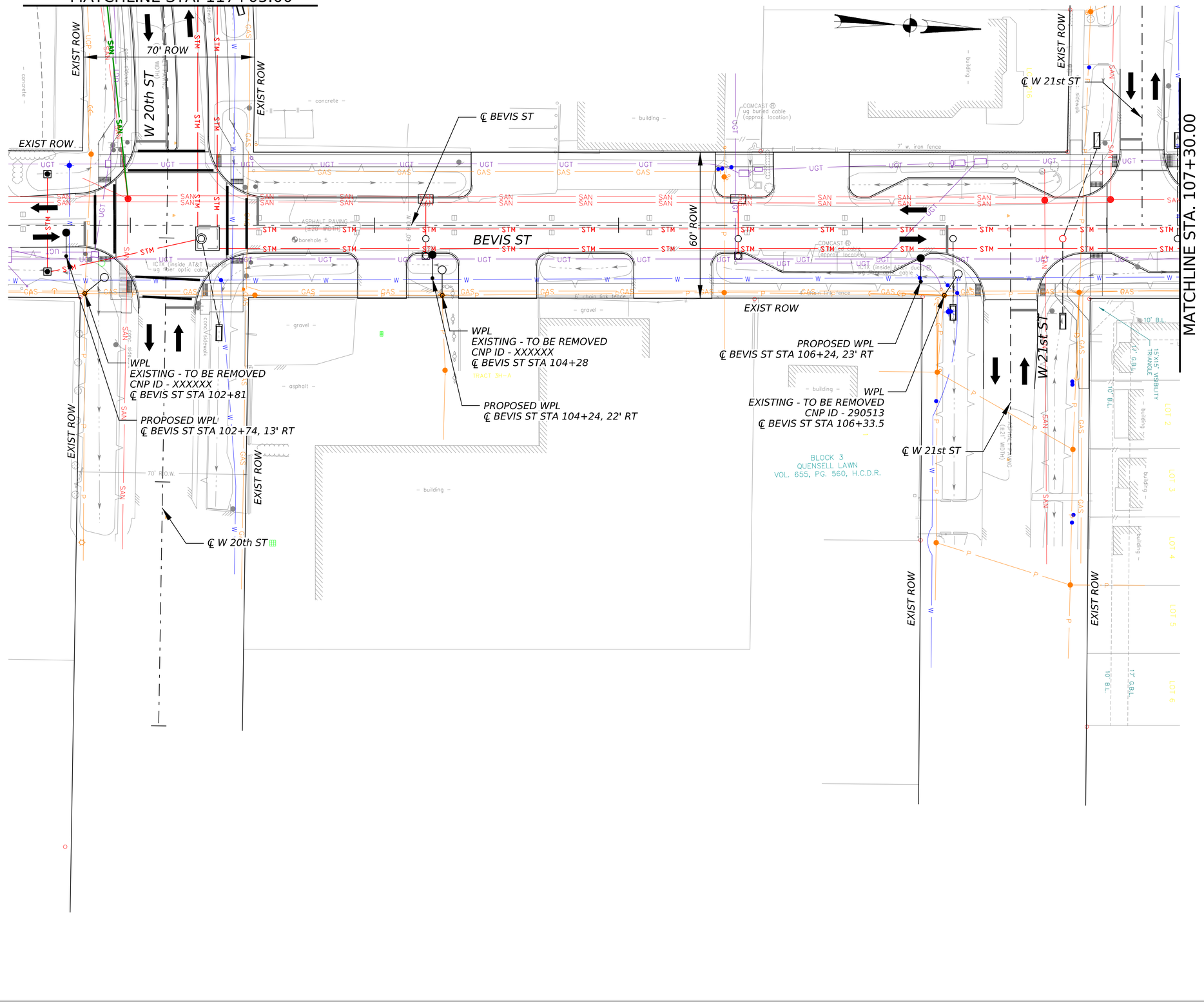

LEGEND:

- DIRECTION OF TRAFFIC
- EXISTING MPL TO BE REMOVED
- PROPOSED MPL
- EXISTING WPL TO BE REMOVED
- EXISTING WPL TO REMAIN
- PROPOSED WPL

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ILLUMINATION LAYOUT
BEVIS ST
BEGIN TO STA 107+30.00

SHEET 4 OF 8

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1"=40'	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **221** OF **278**	

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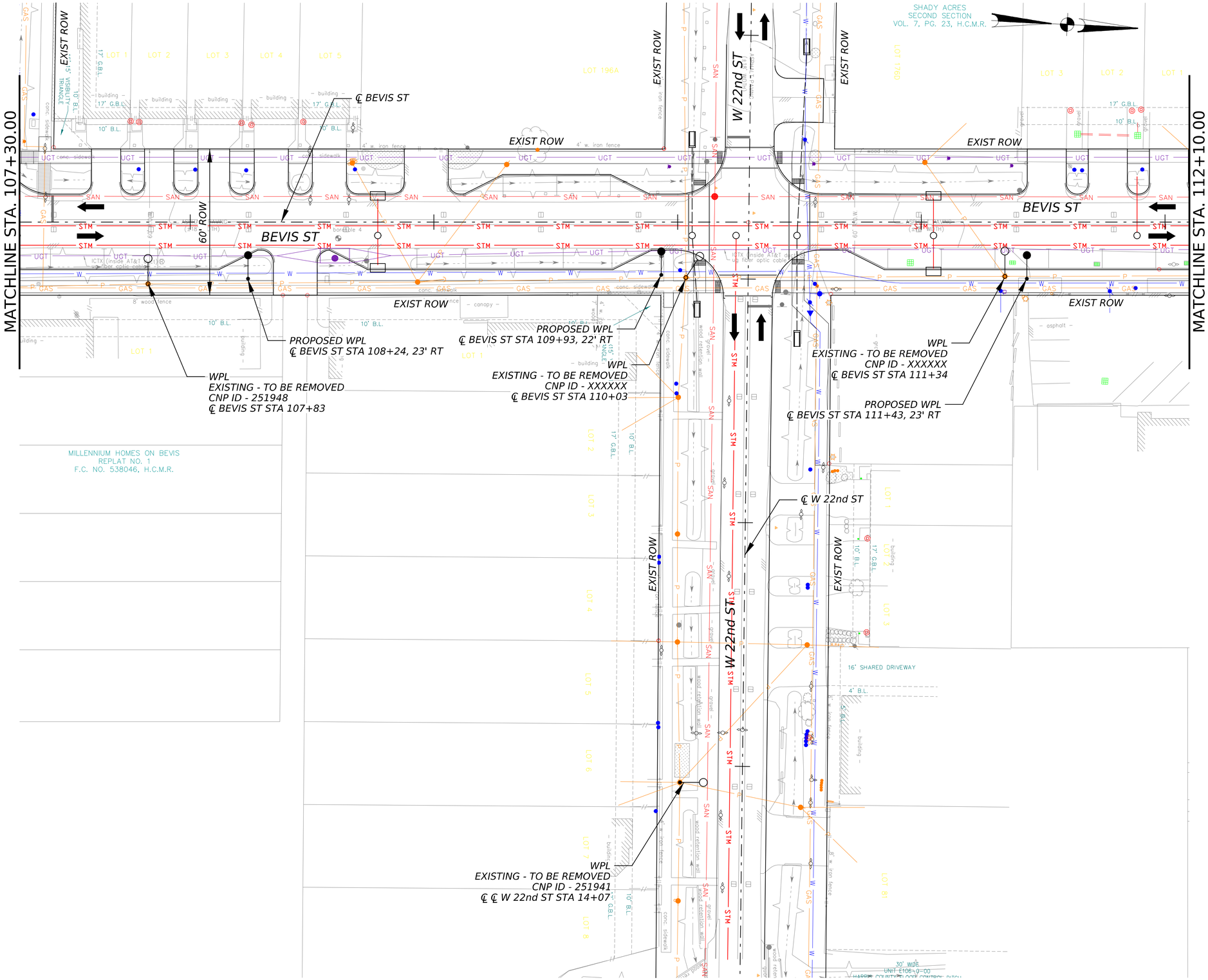

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TURKEY GULLY
ILLUMINATION LAYOUT
BEVIS ST
STA 107+30.00 TO STA 112+10.00

SHEET 5 OF 8

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CITY OF HOUSTON PM	
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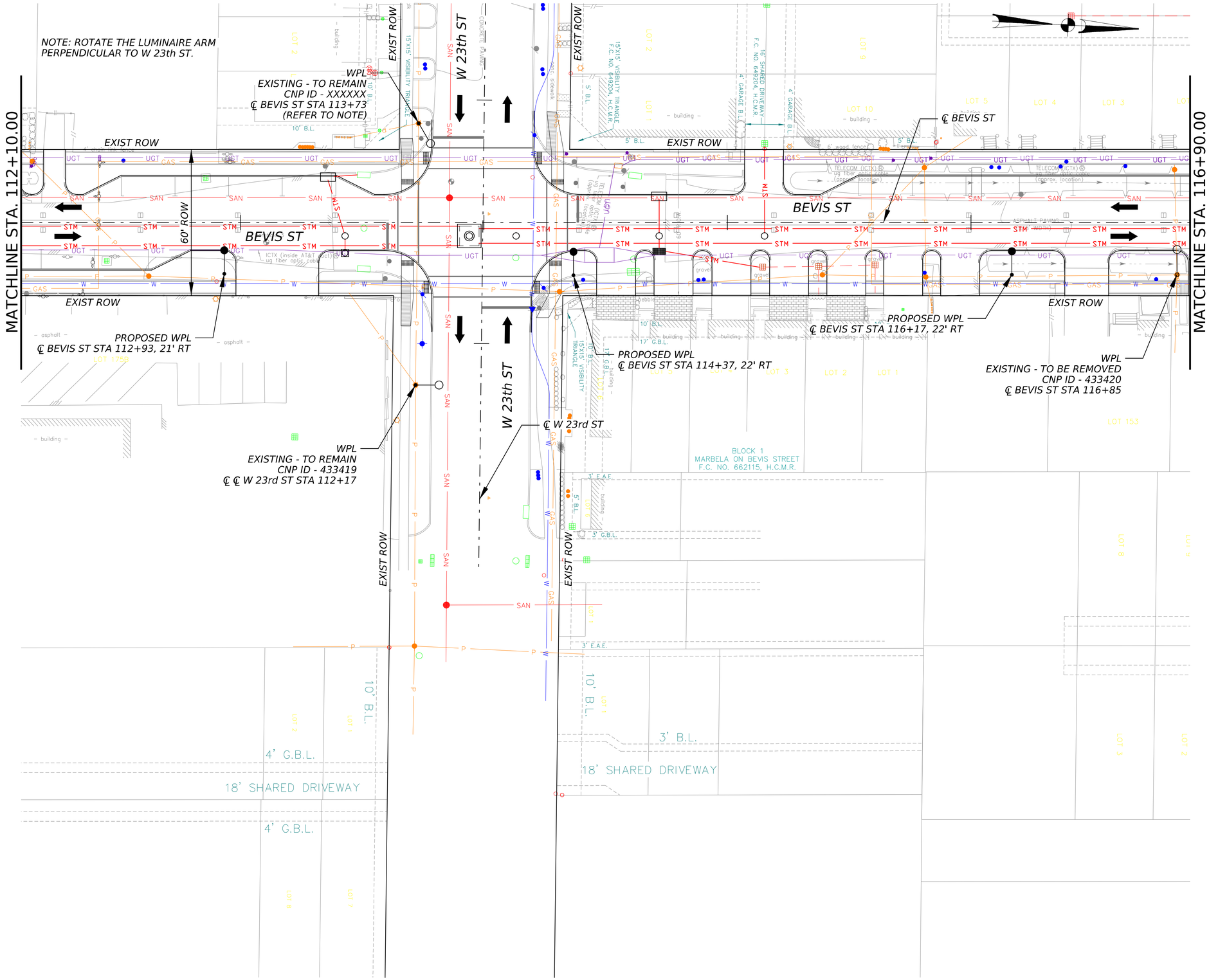

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CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TURKEY GULLY
ILLUMINATION LAYOUT
BEVIS ST
STA 112+10.00 TO STA 116+90.00

SHEET 6 OF 8

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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1"=40'	
CITY OF HOUSTON PM	
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SHEET NO. **223** OF **278**	

10/24/2025
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TURKEY_PLN_IEI_ILLUMINATION_SHEET 6.dgn

MATCHLINE STA. 116+90.00

MATCHLINE STA. 121+70.00

W 24th ST

W 25th ST

BEVIS ST

EXIST ROW

60' ROW

℄ BEVIS ST

℄ W 24th ST

℄ W 25th ST

PROPOSED WPL
℄ BEVIS ST STA 118+02, 22' RT

WPL
EXISTING - TO BE REMOVED
CNP ID - 290516
℄ BEVIS ST STA 117+98

PROPOSED WPL
℄ BEVIS ST STA 119+52, 22' RT

PROPOSED WPL
℄ BEVIS ST STA 121+02, 21' RT

WPL
EXISTING - TO BE REMOVED
CNP ID - 290517
℄ BEVIS ST STA 120+64

WPL
EXISTING - TO REMAIN
CNP ID - 343408
℄ W 25th ST STA 11+04

WPL
EXISTING - TO REMAIN
CNP ID - 251928
℄ W 24th ST STA 13+55

WPL
EXISTING - TO REMAIN
CNP ID - 251921
℄ W 25th ST STA 13+51

BLOCK 1
LISMAR ESTATES REPLAT NO 2
F.C. NO. 680518, H.C.M.R.

BLOCK 1
BEVIS STREET PLACE
F.C. NO. 633058, H.C.M.R.

16' SHARED DRIVEWAY

18' SHARED DRIVEWAY

16' SHARED DRIVEWAY (BY PLAT)

15'X15' VISIBILITY TRIANGLE

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TURKEY GULLY
ILLUMINATION LAYOUT
BEVIS ST
STA 116+90.00 TO STA 121+70.00

SHEET 7 OF 8

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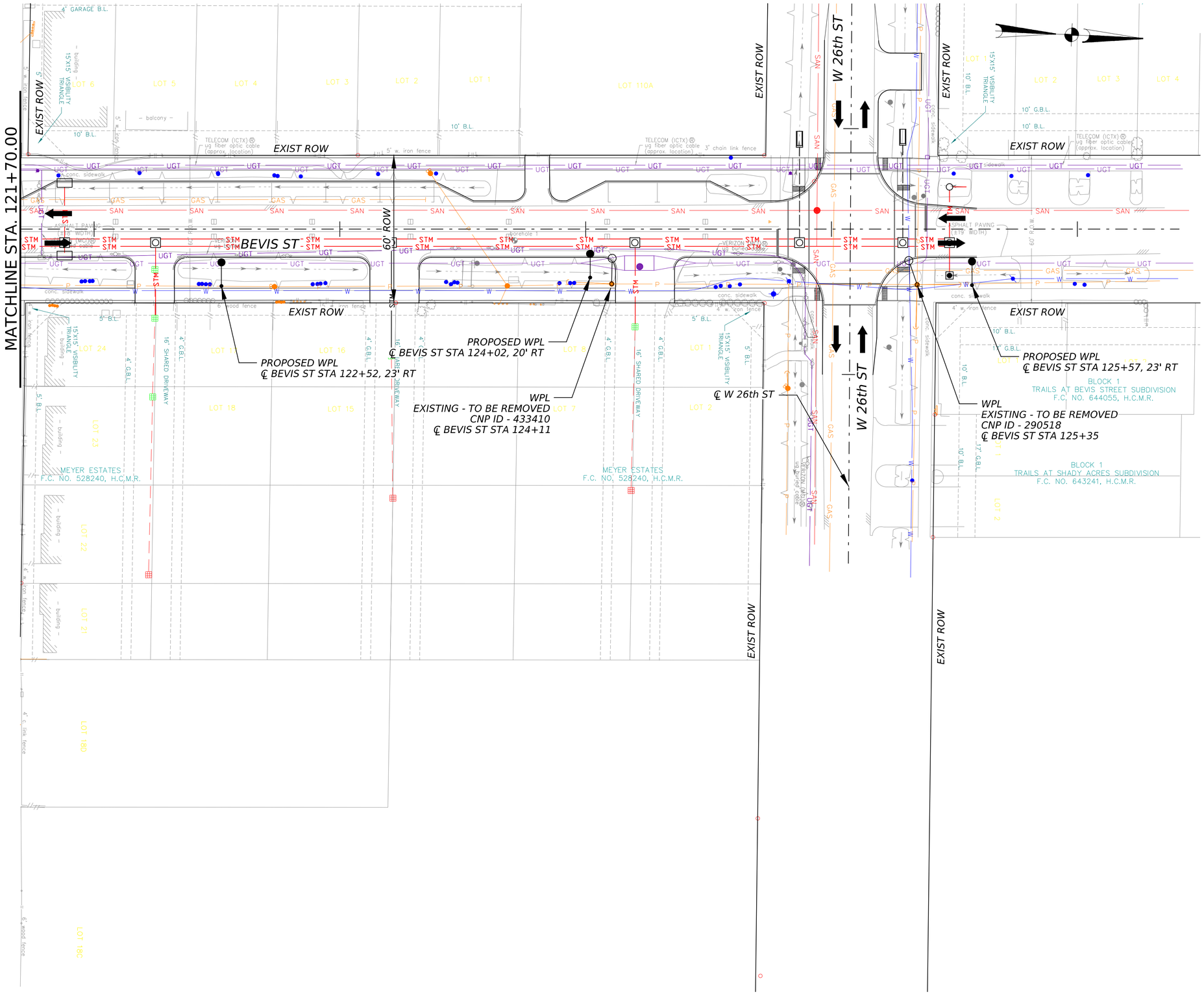

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TURKEY GULLY
ILLUMINATION LAYOUT
BEVIS ST
STA 121+70.00 TO END

SHEET 8 OF 8

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1"=40'	
CITY OF HOUSTON PM	
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SHEET NO. 225 OF 278	

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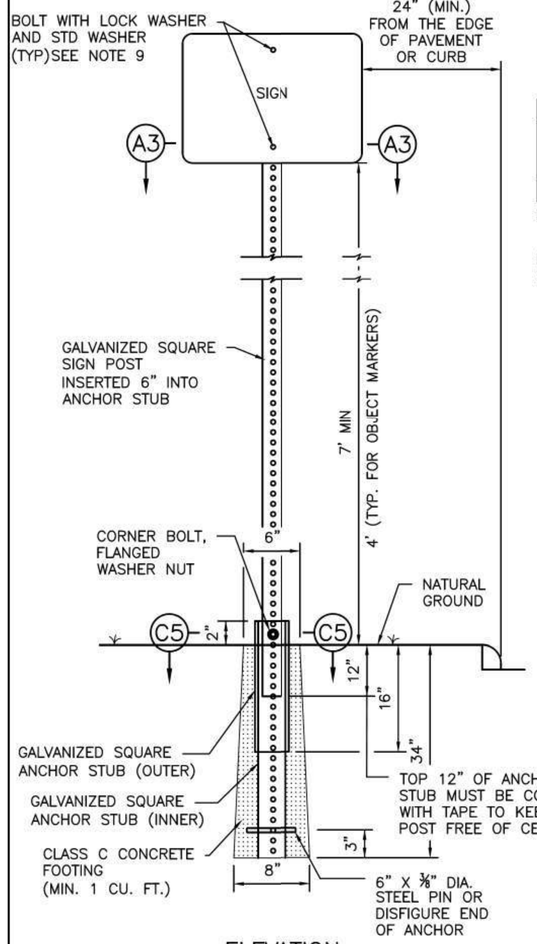
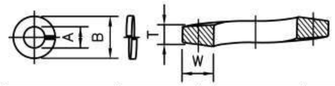


ELEVATION

TYPICAL GROUND SIGN INSTALLATION
PERFORATED SQUARE METAL TUBING

TABLE A	
GALVANIZED SQUARE SIGN POST (PERFORATED)	1–3/4"x–1–3/4" (14 GAUGE)
GALVANIZED SQUARE ANCHOR STUB (PREFORATAED) (INNER)	2"x2"x36" (14 GAUGE)
GALVANIZED SQUARE ANCHOR STUB (PERFORATED) (OUTER)	2 1/4" x 2 1/4" x 18" (14 GAUGE)



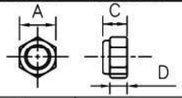
NOMINAL WASHER SIZE	A		B	T	W
	INSIDE DIAMETER		OUTSIDE DIAMETER	MEAN SECTION (THICKNESS)	SECTION WIDTH
	MAX	MIN	MAX		
5/16"	0.332"	0.314"	0.583"	0.078"	0.125"

DIMENSIONS: ASME B18.21.1

MATERIAL: ALLOY STEEL PER ASME B18.21.1

FINISH: MECHANICAL ZINC PER ASTM B695, CLASS 5, TYPE 2 (YELLOW)

5/16" SPLIT LOCK WASHER, HIGH ALLOY MECHANICAL DEPOSITED YELLOW SINK



SIZE	C		A		D
	THICKNESS		WIDTH ACROSS FLATS		HEX HEIGHT
	MAX	MIN	MAX	MIN	MIN
0.313"	0.359"	0.329"	0.502"	0.489"	0.250"

DIMENSIONS: ASME B18.16.6

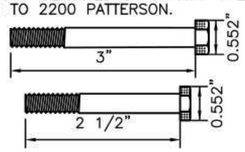
MATERIAL: CARBON STEEL, GRADE 8 PER ASME B18.16.6, NYLON ⅝

THREAD REQUIREMENTS: ASME B1.1 UNC & UNF CLASS 2B

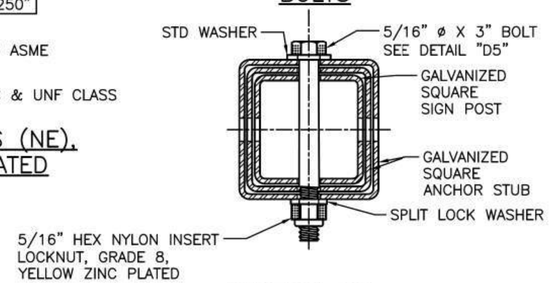
HEX NYLON INSERT LOCKNUTS (NE), GRADE 8, YELLOW ZINC PLATED

NOTES:

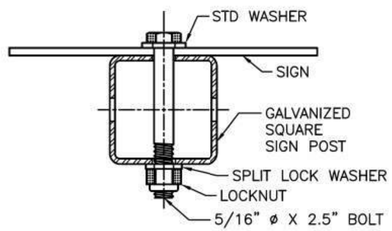
1. THE EXISTING SIGNS LOCATED ON PUBLIC CONSTRUCTION SITE ARE THE PROPERTY OF THE CITY OF HOUSTON. THROUGHOUT THE PERIOD OF THE CONTRACT, THE CONTRACTOR SHALL PROTECT THESE SIGNS SUCH THAT THEY ARE NOT DAMAGED IN THE COURSE OF CONSTRUCTION ACTIVITY. SUCH PROTECTION SHALL INCLUDE THE PERIOD AFTER SIGNS ARE REMOVED FROM INSTALLATION AND STORED BY THE CONTRACTOR OR DELIVERED TO THE TRAFFIC OPERATIONS CENTER (2200 PATTERSON). THE GENERAL TRAFFIC SUPERINTENDENT (832–395–6771) MUST BE NOTIFIED 48 HOURS IN ADVANCE PRIOR TO DELIVERY.
2. AFTER SIGNS ARE REMOVED FROM INSTALLATION AND ARE BEING STORED BY THE CONTRACTOR, THE CONTRACTOR SHALL CONTACT THE TRAFFIC OPERATIONS DIVISION OF HOUSTON PUBLIC WORKS (832–395–6771) AND ARRANGE FOR A CONVENIENT TIME TO DELIVER ONLY CITY SIGNS AND POSTS IDENTIFIED BY TRAFFIC OPERATIONS DIVISION TO 2200 PATTERSON.
3. PRIOR TO THE START OF CONSTRUCTION, ALL EXISTING SIGNS WITHIN THE AREA OF CONSTRUCTION WILL BE INVENTORIED AND DOCUMENTED JOINTLY BY THE CITY INSPECTOR AND THE CONTRACTOR. THIS DOCUMENT WILL BE JOINTLY SIGNED BY BOTH PARTIES REFLECTING THE SIGN TYPE, SIGN SIZE, SIGN CONDITION, SIGN LOCATION, REFLECTIVITY ADEQUACY, ETC. THE CONTRACTOR IS HELD ACCOUNTABLE FOR THESE SIGNS THROUGHOUT THE PROJECT AND AT THE PROJECTS COMPLETION.
4. ALL GROUND MOUNTED STOP SIGNS, WARNING SIGNS, AND OTHER REGULATORY SIGNS SHALL USE AT A MINIMUM HIGH INTENSITY PRISMATIC REFLECTIVE SHEETING.
5. ALL OVERHEAD SIGNS SHALL USE DIAMOND GRADE REFLECTIVE SHEETING.
6. ALL OTHER SIGNS SHALL USE SUPER ENGINEER GRADE SHEETING.
7. ALL BLANKS TO BE INSTALLED SHALL BE ALUMINUM ALLOY 6061–T–6 OR 5052–H38 IN ACCORDANCE WITH ASTM B209.
8. ALL HOLES SHALL BE ⅜" DIAMETER DRILLED OR PUNCHED AS SHOWN ON EACH BLANK DETAIL AND SHALL BE FREE OF BURRS AND / OR ROUGH EDGES. WHERE NON–STANDARD ORIENTATION OF SIGN IS USED, ENLARGE HOLE IN SIGN POST AT SIGN CONNECTION NOT GREATER THAN 11/16" IN DIAMETER.
9. BOLT SIZE REQUIREMENTS FOR SIGN CONNECTION:
   - 9.1. STANDARD ORIENTATION = 5/16" DIA X 2 1/2" BOLT
   - 9.2. NON STANDARD ORIENTATION = 5/16" DIA X 3" BOLT
10. SIGN BLANK CORNERS TO BE ROUNDED AS SHOWN ON EACH DETAIL ON SHEET 01554–06.
11. ALL SIGN BLANKS ARE TO BE ETCHED, DEGREASED, AND HAVE A COATING MEETING THE REQUIREMENTS OF ASTM B449, CLASS 2, OR ASTM B921, CLASS 2. PRIOR TO APPLICATION OF LEGENDS.
12. ALL SIGNS SHALL BE MANUFACTURED AND INSTALLED IN CONFORMANCE TO THE LATEST TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD) AND STANDARD HIGHWAY SIGNS LATEST EDITION.



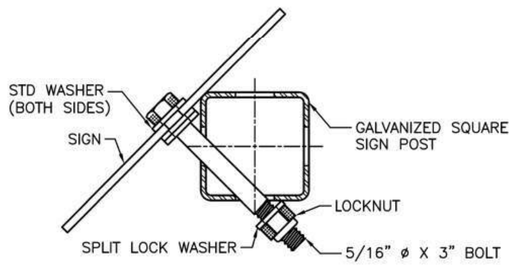
SECTION D5
BOLTS



SECTION C5
CORNER BOLT



STANDARD ORIENTATION



NON–STANDARD ORIENTATION

SECTION A3: SIGN CONNECTION DETAILS

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

GENERAL NOTES AND GROUND MOUNTING SIGN

(SCALE: NOT TO SCALE)

APPROVED BY:

DocuSigned by: Suhail Kanwar 9EF8B0C641F5478...
CITY ENGINEER

DocuSigned by: KHANG NGUYEN 55A29EFDA75B4CD...
CITY TRAFFIC ENGINEER

DocuSigned by: Carol Haddock A93C410B72B3453...
DIRECTOR OF HPW

EFF DATE: NOV–27–2023 | DWG NO: 01554–01

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CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TURKEY GULLY

CITY OF HOUSTON STANDARD DETAILS

SHEET 1 OF 15

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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N.T.S	
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SHEET NO. 226 OF 278	

DISCLAIMER:
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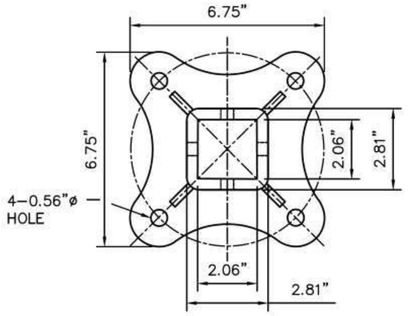
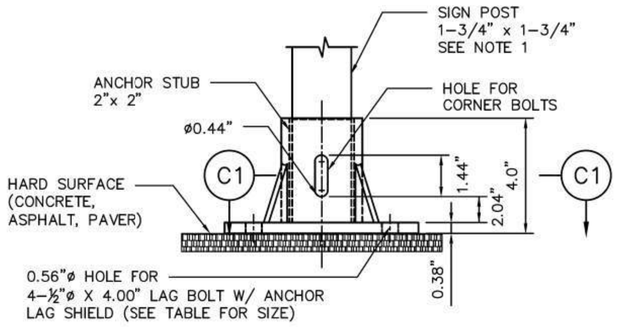
$USER$
10/24/2025
$FILEABREL$
Standards (All).dgn

DocuSign Envelope ID: CB71C116-B716-4899-A5EE-0D2F2CC55AF6



TOP VIEW



SIDE VIEW

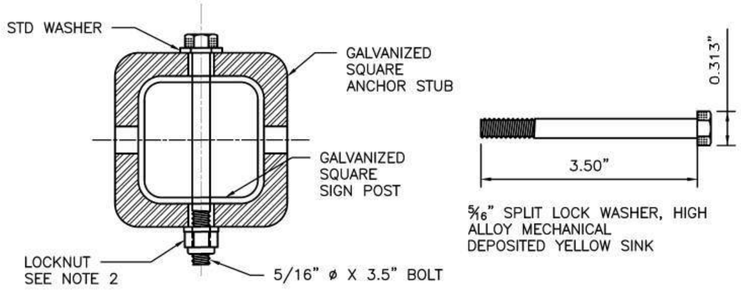
TYPICAL HARD SURFACE INSTALLATION GALVANIZED SIGN BASE

NOTES:

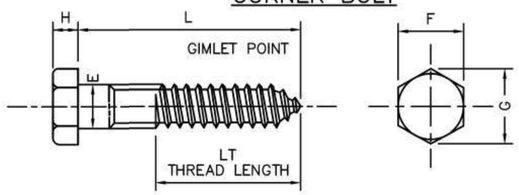
1. REFER TO COH STD DWG 01554–01 FOR SIGN AND POST REQUIREMENTS.
2. REFER TO DETAIL "C5" ON COH STD DWG 01554–01 FOR NUT AND BOLT REQUIREMENTS.

BASE PLATE NOTES:

1. MATERIAL: ASTM A–536 GRADE 65–45–12 DUCTILE IRON
2. HOT DIP GALVANIZE PER ASTM A–153
3. ALL DIMENSIONS ARE IN INCHES



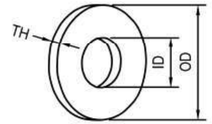
SECTION C1
CORNER BOLT



DIAMETER	E		F		G		H		L	LT
	BODY DIAMETER		WIDTH ACROSS FLATS		WIDTH ACRSS CORNERS		HEIGHT		LENGTH	THREAD LENGTH
	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN		
1/2"	0.515"	0.482"	0.750"	0.725"	0.866"	0.826"	0.364"	0.302"	4.00"	3.84"

MATERIAL:PER A307 GRADE A
COATING: HOT DIP ZINC PER ASTM F2329 OR IN ACCORDANCE WITH CLASS C OF ASTM A153 AND CLASS D FOR ⅜" DIAMETER AND LESS

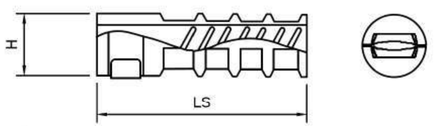
4" HEX LAG SCREWS, HOT DIPPED GALVANIZED



SAE FLAT WASHERS									
	ID			OD			THICKNESS – TH		
SIZE	BASIC	TOLERANCE		BASIC	TOLERANCE		BASIC	MAX	MIN
		PLUS	MINUS		PLUS	MINUS			
1/2"	0.531	0.015"	0.005"	1.062"	0.030"	0.007"	0.95"	0.121"	0.74"

DIMENSIONS: ASME B18.21.1, TYPE A PLAIN WASHERS
MATERIAL: CARBON STEEL
FINISH: Fe/Zn 3AT PER ASTM F1941

1/2" FLAT WASHERS, LOW CARBON, SAE, ZINC PLATED



TH	LS	H	L
LAG THREAD SIZE	LENGTH OF SHIELD NOMINAL	DRILLED HOLE SIZE	BOLT LENGTH REQ
1/2"	3.00"	0.75"	4.00"

ANCHOR LAG SHIELD – ZINC ALLOY

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

SIGN BASE
HARD SURFACE
MOUNTING DETAILS
(SCALE: NOT TO SCALE)

APPROVED BY:

DocuSigned by: Sukait Kanwar 9EF8B0C641F5478...
CITY ENGINEER

DocuSigned by: KHANG NGUYEN 95A29EFDA75B4CD...
CITY TRAFFIC ENGINEER

DocuSigned by: Carol Haddock A93C410B72B3453...
DIRECTOR OF HPW

EFF DATE: NOV–27–2023 | DWG NO: 01554–02

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

STANDARD DE

2

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
CITY OF HOUSTON PM	
SHEET NO. 227 OF 278	

DISCLAIMER:
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$USER$
10/24/2025
$FILENAME$
Standards (All).dgn

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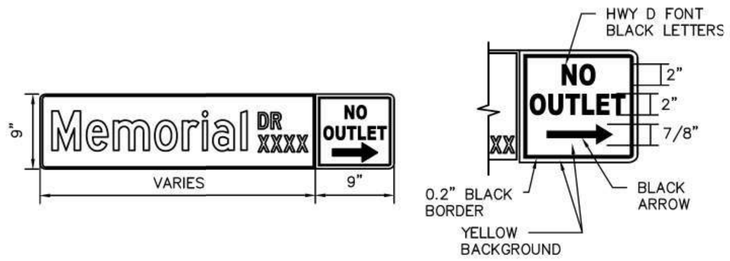
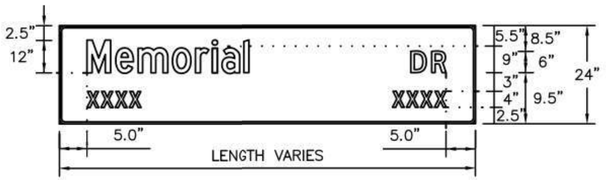
POST MOUNTED STREET NAME SIGN W/ NO OUTLET SIGN



D3 – POST MOUNTED STREET NAME SIGN

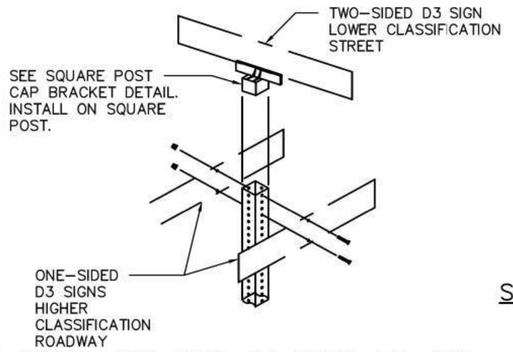
OVERHEAD STREET NAME SIGN DETAIL



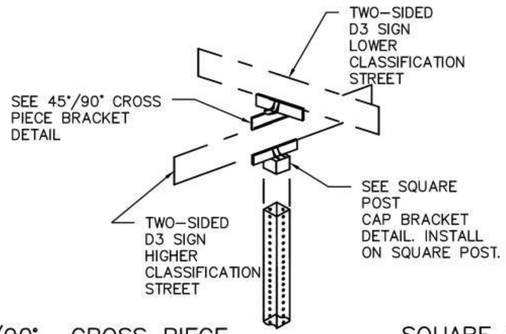
D3 – STREET NAME SIGN

	POST–MOUNTED SIGN	OVERHEAD SIGN
HEIGHT	9"	24"
LENGTH	30" MIN 48' MAX 6" INCREMENTS OF LENGTH	10" MAX 2' INCREMENT OF LENGTH
THICKNESS	0.125"	0.080"
SUBSTREATE	ALLUMINUM ALLOY, 5052–H38 (ASTM B–209)	
SIGN FACE MATERIALS	GREEN FILM OVER DIAMOND GRADE VIP SHEETING	
LEGENDS AND SYMBOLS	HIGHWAY GOTHIC SERIES D (USUAL) HIGHWAY GOTHIC SERIES C OR B FOR MAXIMUM LENGTH SIGN BLACK	
COLOR	LETTERS–WHITE REFLECTIVE BORDER–WHITE REFLECTIVE BACKGROUND–GREEN REFLECTIVE	

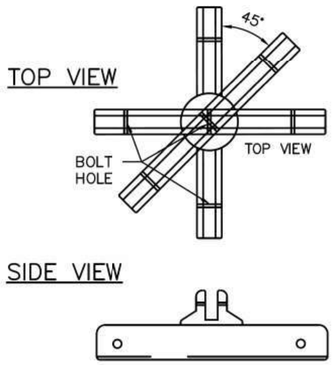
D3 SIGNS GREATER THAN 42" PLATES IN LENGTH



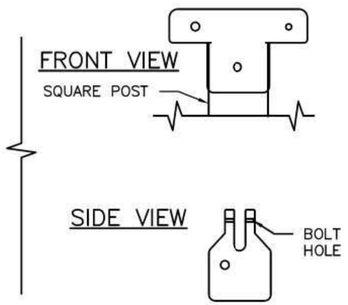
D3 SIGNS LESS THAN OR EQUAL TO 42" PLATES IN LENGTH



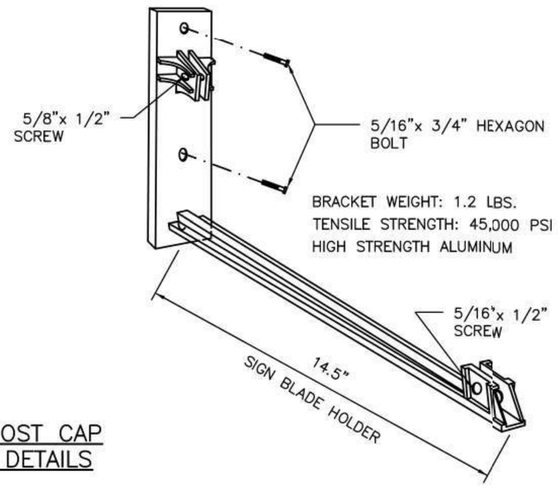
45°/90° CROSS PIECE SIGN BRACKET



SQUARE POST CAP BRACKET DETAILS



SIGNAL POLE MOUNTING DETAIL



NOTES:

1. TYPICAL SIGN PLATE SHOULD BE 30" MAX.
2. LONGER SIGN PLATE MUST BE APPROVED BY THE CITY TRAFFIC ENGINEER.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARh

STREET NAME SIGN AND SIGN MOUNTING

(SCALE: NOT TO SCALE)

APPROVED BY:

DocuSigned by: Sukait Kanwar 9EF8B0C641F5478...
CITY ENGINEER

DocuSigned by: KHANG NGUYEN 95A29EFDA75B4CD...
CITY TRAFFIC ENGINEER

DocuSigned by: Carol Haddock A93C410B72B3453...
DIRECTOR OF HPW

EFF DATE: NOV–27–2023 | DWG NO: 01554–03

infraTECH
Engineers & Innovators, LLC
TBPE REGISTRATION NO. F-18368
11111 WILCREST GREEN DR #410
HOUSTON, TEXAS 77042
OFFICE: 832-991-8164

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

THESE PLANS ARE PRELIMINARY AND ARE BEING ISSUED FOR REVIEW BY PUBLIC AGENCIES AND OTHER PRELIMINARY PURPOSES. WHEN ISSUED IN FINAL FORM THEY WILL BE SEALED, SIGNED, AND DATED BY THE RESPONSIBLE ENGINEER.

RESPONSIBLE ENGINEER:
ZAHIDUL Q. SIDDIQUE, P.E. 98635
10/24/2025

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TURKEY GULLY

CITY OF HOUSTON
STANDARD DETAILS

SHEET 3 OF 15

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
N.T.S	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 228 OF 278	

DISCLAIMER:
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10/24/2025
$FILEABREV$

Standards (All).dgn

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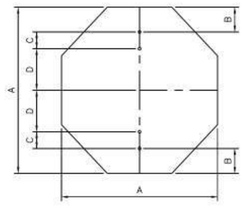
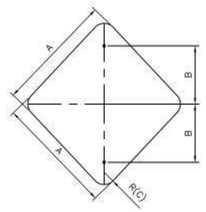


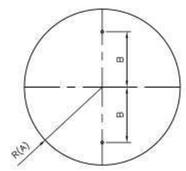
OCTAGONAL

A	B	C	D	T
24	3	3	12	0.08
36	3	3	24	0.08



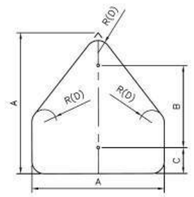
DIAMOND

A	B	C	T
24	12	1 1/2	0.08
30	15	1 1/2	0.08
36	18	1 1/2	0.08



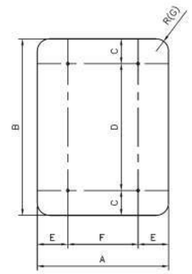
CIRCLE

A	B	T
15	15	0.08
18	12	0.08



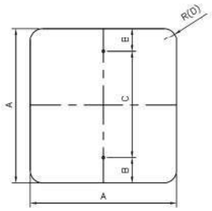
PENTAGON (SCHOOL)

A	B	C	D	T
36	24	3	1 1/2	0.08



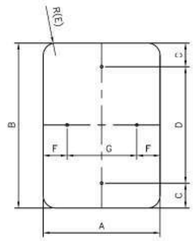
VERTICAL RECTANGLE

A	B	C	D	E	F	G	T
36	48	6	36	6	24	1 1/2	0.08
48	60	6	48	9	30	1 1/2	0.08
18	30	3	24	–	–	1 1/2	0.08



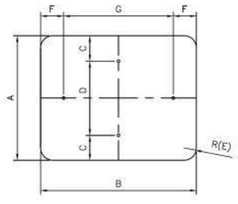
SQUARE (A)

A	B	C	D	T
18	3	12	1 1/2	0.08
24	3	18	1 1/2	0.08
36	3	30	1 1/2	0.08



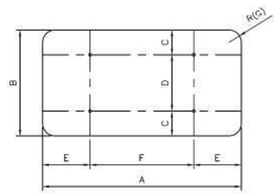
VERTICAL/HORIZONTAL RECTANGLE

A	B	C	D	E	F	G	T
12	18	1 1/2	15	1 1/2	1 1/2	9	0.08
12	36	3	30	1 1/2	1 1/2	9	0.08
18	24	3	18	1 1/2	1 1/2	15	0.08
24	30	3	24	1 1/2	3	18	0.08
24	36	3	30	1 1/2	3	18	0.08
24	48	3	36	1 1/2	3	18	0.08
30	36	3	30	1 1/2	3	24	0.08



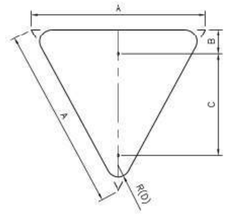
HORIZONTAL/VERTICAL RECTANGLE

A	B	C	D	E	F	G	T
12	6	–	–	1 1/2	1	4	C.08
18	6	–	–	1 1/2	1	4	C.08
12	9	1	10	1 1/2	–	–	C.08
24	12	1 1/2	9	1 1/2	2	8	C.08
24	18	3	12	1 1/2	2	14	C.08
30	24	3	18	1 1/2	3	18	C.08
36	12	1 1/2	9	1 1/2	2	8	C.08



HORIZONTAL RECTANGLE

A	B	C	D	E	F	G	T
36	24	3	18	6	24	1 1/2	0.08
48	24	3	18	9	30	1 1/2	0.08
48	36	6	24	9	30	1 1/2	0.08
60	24	3	18	12	36	1 1/2	0.08
60	36	6	24	12	36	1 1/2	0.08



EQUILATERAL TRIANGLE

A	B	C	D	T
36	3	21	1 1/2	0.08

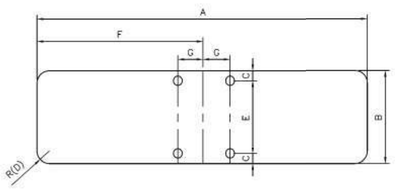


TABLE – D3 SIGNS (BRACKETS)

A	B	C	D	E	F	G	T
30	9	5/16	1 1/2	8 3/8	15	1 3/4	0.125
36	9	5/16	1 1/2	8 3/8	18	1 3/4	0.125
42	9	5/16	1 1/2	8 3/8	21	1 3/4	0.125
48	9	5/16	1 1/2	8 3/8	24	1 3/4	0.125

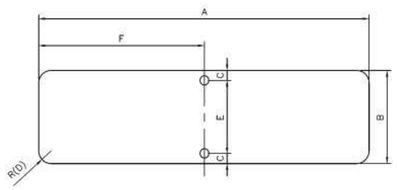


TABLE – D3 SIGNS

A	B	C	D	E	F	T
30	9	1 1/2	1 1/2	6	15	0.125
36	9	1 1/2	1 1/2	6	18	0.125
42	9	1 1/2	1 1/2	6	21	0.125
48	9	1 1/2	1 1/2	6	24	0.125

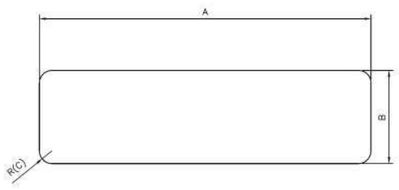
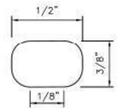


TABLE – D1 SIGNS

A	B	C	T
60	24	1 1/2	0.08
72	24	1 1/2	0.08
84	24	1 1/2	0.08
96	24	1 1/2	0.08

NOTES:

1. A 30" LONG OR GREATER PLATE SHALL BE USED WHEN A "NO OUTLET" SUPPLEMENT IS REQUIRED.
2. THE CITY OF HOUSTON "STOP" AND "YIELD" SIGNS SHALL BE A MINIMUM 36". SPECIAL PERMISSION FROM THE CITY TRAFFIC ENGINEER IS REQUIRED FOR LESS THAN 36" SIGNS.
3. ALL PUNCHED HOLES ARE 3/8"x 1/2" OVAL.
4. ALL CORNER RADII ARE 1 1/2".
5. ALL DIMENSIONS ARE IN INCHES.
6. T = THICKNESS



APPROVED BY:	APPROVED BY:
Sukai Kauwar	KHANG NGUYEN
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY: Carol Haddock	
DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV-27-2023	DWG NO: 01554-06

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

GROUND MOUNTED SIGN SIZES

DRAWING SCALE	FOR CITY OF HOUSTON USE ONLY
NOT TO SCALE	

infraTECH
Engineers & Innovators, LLC
TBPE REGISTRATION NO. F-18368
11111 WILCREST GREEN DR #410
HOUSTON, TEXAS 77042
OFFICE: 832-991-8164

SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
ZAHIDUL Q. SIDDIQUE, P.E. 98635
10/24/2025

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TURKEY GULLY

CITY OF HOUSTON STANDARD DETAILS

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
N.T.S	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 229 OF 278	

$USER$
10/24/2025
$FILEABBREV$
Standards (All).dgn

DocuSign Envelope ID: CB71C116-B716-4899-A5EE-0D2F2CC55AF6

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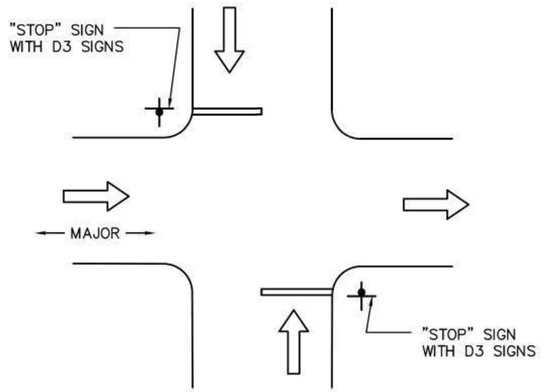
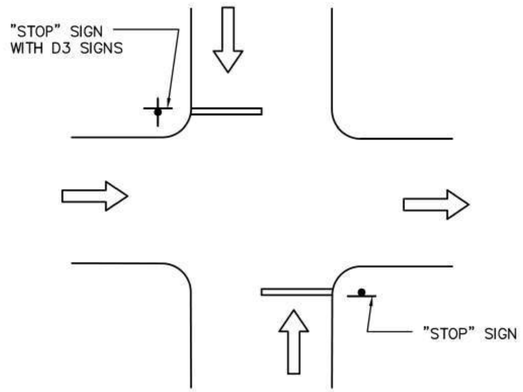
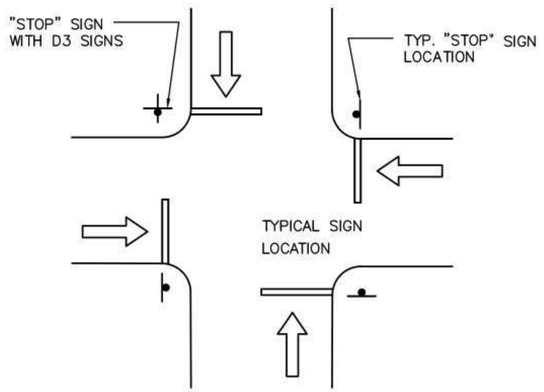
TYPICAL SIGN PLACEMENT



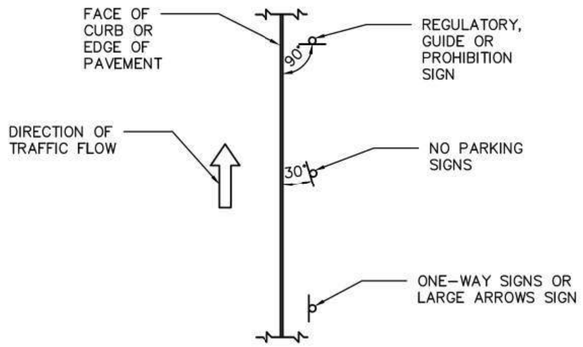
TWO–WAY STOP
AND ONE–WAY OPERATION
ON MAJOR/LOCAL INTERSECTION



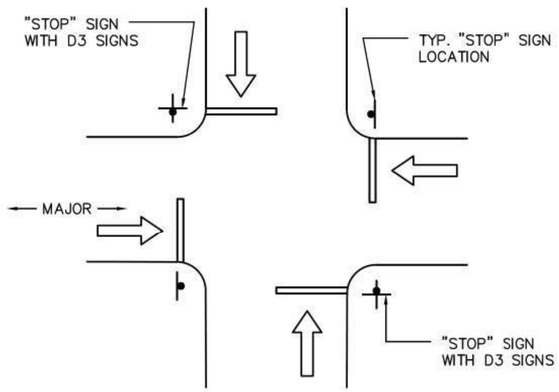
TWO–WAY STOP
AND ONE–WAY OPERATION
ON LOCAL/LOCAL INTERSECTION



FOUR–WAY STOP CONTROL
ON LOCAL/LOCAL INTERSECTION



MAST ARM INSTALLATION
REFER TO TRAFFIC SIGNAL DETAILS
FOR ADDITIONAL INFORMATION.



FOUR–WAY STOP CONTROL
ON MAJOR/LOCAL INTERSECTION

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

TYPICAL SIGN PLACEMENT

(SCALE: NOT TO SCALE)

APPROVED BY:

DocuSigned by: Sulail Kanwar 9EF5B0C641F5478... CITY ENGINEER	DocuSigned by: Carol Haddock A93C410B72B3453... DIRECTOR OF HPW
DocuSigned by: KHANG NGUYEN 95A29EFDA75B4CD... CITY TRAFFIC ENGINEER	
EFF DATE: NOV–27–2023	DWG NO: 0154–07

infraTECH
Engineers & Innovators, LLC
TBPE REGISTRATION NO. F-18368
11111 WILCREST GREEN DR #410
HOUSTON, TEXAS 77042
OFFICE: 832-991-8164

PRELIMINARY ENGINEERING
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RESPONSIBLE ENGINEER:
ZAHIDUL Q. SIDDIQUE, P.E. 98635
10/24/2025

SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TURKEY GULLY

CITY OF HOUSTON
STANDARD DETAILS

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
N.T.S	
CITY OF HOUSTON PM	
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SHEET NO. 230 OF 278	

10/24/2025
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Standards (All).dgn

DocuSign Envelope ID: CB71C116-B716-4899-A5EE-0D2F2CC55AF6

REGULATORY SIGNS		
SIGN	SIGN DESIGNATION	SIZE (IN.)
STOP	R1-1	36x36
YIELD	R1-2	36x36x36
ALL WAY PLAQUE	R1-3P	18x6
YIELD HERE TO PEDISTRIANS	R1-5a	36x48
EXCEPT RIGHT TURN (PLAQUE)	R1-10P(1)	24x18
EXCEPT BUSES (PLAQUE)	R1-10P(2)	24x18
SPEED LIMIT	R2-1	30x36
MINIMUM SPEED LIMIT (PLAQUE)	R2-4P	24x30
NO RIGHT TURNS	R3-1	36x36
NO LEFT TURNS	R3-2	36x36
NO U-TURNS	R3-4	36x36
LEFT/RIGHT TURN ONLY	R3-5	30x36
THRU ONLY	R3-5a	30x36
LEFT TURN/THRU	R3-6	30x36
LEFT/RIGHT LANE MUST TURN LEFT/RIGHT	R3-7	36x36
ADVANCE INTERSECTION LANE CONTROL (VARIES)	R3-8	VARIESx30
TWO-WAY LEFT TURN ONLY (OVERHEAD)	R3-9a	30x36
TWO-WAY LEFT TURN LANE (POST MOUNTED)	R3-9b	24x36
BEGIN	R3-9cP	30x12
END	R3-9dP	30x12
REVERSIBLE LANE CONTROL (SYMBOL)	R3-9e	108x48
REVERSIBLE LANE CONTROL (POST MOUNTED)	R3-9f	36x54
ADVANCE REVERSIBLE LANE CONTROL TRANSITION	R3-9g,9h	108x36
END REVERSIBLE LANE	R3-9i	108x48
BIKE LANE	R3-17	24x18
SLOWER TRAFFIC KEEP RIGHT	R4-3	24x30
BEGIN RIGHT TURN LANE YIELD TO BIKES	R4-4	36x30
KEEP RIGHT	R4-7	24x30
KEEP LEFT	R4-8	24x30
DO NOT DRIVE ON SHOULDER	R4-17	24x30
DO NOT PASS ON SHOULDER	R4-18	24x30
DO NOT ENTER	R5-1	36x36
WRONG WAY	R5-1a	42x30
NO TRUCKS (SYMBOL)	R5-2(1)	24x24
NO THRU TRUCKS (TEXT)	R5-2(2)	24x30
ONE WAY (LONG)	R5-1	54x18
ONE WAY	R5-2	30x36
ROUNDABOUT DIRECTIONAL (2 CHEVRONS)	R5-4	30x24
ROUNDABOUT CIRCULATION (PLAQUE)	R5-5P	30x30
BEGIN ONE WAY	R5-6	30x36
END ONE WAY	R5-7	30x36
PARKING RESTRICTION (ARROW)	R7-2(1)	12x18
PARKING RESTRICTION (TO CORNER)	R7-2(2)	12x18
PARKING RESTRICTION (BUS ZONE)	R7-2(3)	12x18

REGULATORY SIGNS		
SIGN	SIGN DESIGNATION	SIZE (IN.)
PARKING RESTRICTION (VALET ZONE)	R7-2(4)	12x18
PARKING RESTRICTION (PEAK PERIOD)	R7-2(5)	12x18
PARKING RESTRICTION (EMERGENCY VEH. ONLY)	R7-2(6)	12x18
PARKING RESTRICTION (TAXI ZONE)	R7-2(7)	12x18
PARKING RESTRICTION (NO STOPPING OR STANDING)	R7-2(8)	12x18
PARKING RESTRICTION (JITNEY STOP)	R7-2(9)	12x18
PARKING RESTRICTION (PED-CAB ZONE)	R7-2(10)	12x18
PARKING RESTRICTION (LIMO ZONE)	R7-2(11)	12x18
PARKING RESTRICTION (COMMERCIAL VEH. ZONE)	R7-2(12)	12x18
PARKING RESTRICTION (FED/CITY AUTHORIZED VEH. ONLY)	R7-2(13)	12x18
PARKING RESTRICTION (U.S. MARSHAL PARKING ONLY)	R7-2(14)	12x18
PARKING RESTRICTION (EMERGENCY)	R7-2(15)	12x18
PARKING TIME LIMIT (VARIES)	R7-108	12x18
HANDICAPPED PARKING	R7-8T	12x18
TOW AWAY ZONE (PLAQUE)	R7-201P	12x6
PARKING METER (COH)	R7-110	12x18
ON TRACKS (PLAQUE)	R8-3eP	24x18
CROSS ONLY AT CROSSWALKS (SYMBOL)	R9-2	12x18
NO PEDESTRIAN CROSSING (SYMBOL)	R9-3	18x18
NO PEDESTRIAN CROSSING	R9-3a	12x18
PEDESTRIAN CROSSING	R9-8	36x18
SIDEWALK CLOSED	R9-9	24x12
SIDEWALK CLOSED-USE OTHER SIDE	R9-10	24x12
SIDEWALK CLOSED CROSS HERE	R9-11a	24x12
PUSH BUTTON FOR PEDESTRIAN CROSSING	R10-3e	9x15
LEFT ON GREEN ARROW ONLY	R10-5	30x36
STOP HERE ON RED	R10-6	24x36
DO NOT BLOCK INTERSECTION	R10-7	24x30
LEFT/RIGHT TURN SIGNAL	R10-10	30x36
NO TURN ON ROAD (TEXT)	R10-11a	36x48
LEFT TURN YIELD ON GREEN	R10-12	30x36
CROSSWALK, STOP ON RED	R10-23	24x30
KEEP OFF MEDIAN	R11-1	24x30
ROAD CLOSED	R11-2	48x30
ROAD CLOSED LOCAL TRAFFIC ONLY	R11-3a	60x30
BRIDGE OUT LOCAL TRAFFIC ONLY	R11-3b	60x30
ROAD CLOSED TO THRU TRAFFIC	R11-4	60x30
WEIGHT LIMIT XX TONS	R12-1	24x30
AXLE WEIGHT LIMIT XX TONS/LBS	R12-2	24x30
NO TRUCKS OVER XX TONS/LBS EMPTY WEIGHT	R12-3	24x36
WEIGHT LIMIT XX TONS PER AXLE XX TONS GROSS	R12-4	36x24
LOAD ZONED BRIDGE	R12aT	VARIESx36
TRUCK ROUTE	R14-1	24x18
GRADE CROSSING (CROSSBUCK)	R15-1	48x9
NUMBER OF TRACKS (PLAQUE)	R15-2P	27x18

REGULATORY SIGNS		
SIGN	SIGN DESIGNATION	SIZE (IN.)
RIGHT ANGLE TURN	CW1-1	36X36
HORIZONTAL CURVE	CW1-2	36X36
REVERSE RIGHT ANGLE TURNS	CW1-3	36X36
REVERSE HORIZONTAL CURVES	CW1-4	36X36
REVERSE CURVE (2 LANES)	CW1-4b	36X36
REVERSE CURVE (MORE THAN 2 LANES)	CW1-4c	36X36
ONE-DIRECTION LARGE ARROW	CW1-6	48X24
UPWARD SLOPING ARROW	CW1-6aT	36X36
CHEVRON	CW1-8	18X24
STOP AHEAD	CW3-1	36X36
SIGNAL AHEAD	CW3-3	36X36
BE PREPARED TO STOP	CW3-4	36X36
ROAD NARROWS	CW5-1	36X36
NARROW BRIDGE	CW5-2	36X36
TWO-WAY TRAFFIC FLOW	CW6-3	36X36
TWO-WAY TRAFFIC	CW6-4	12X18
BUMP	CW8-1	36X36
DIP	CW8-2	36X36
SOFT SHOULDER	CW8-4	36X36
TRUCK CROSSING	CW8-6	36X36
ROUGH ROAD	CW8-8	36X36
UNEVEN LANES	CW8-11	36X36
LEFT LANE ENDS	CW9-1(1)	36X36
RIGHT LANE ENDS	CW9-1(2)	36X36
DOUBLE ARROW	CW12-1	30X30
ADVISORY SPEED (PLAQUE)	CW13-1P	24X24
XX FEET (PLAQUE)	CW16-2P	24X18
AHEAD (PLAQUE)	CW16-3	24X12
ROAD WORK AHEAD	CW20-1	36X36
DETOUR AHEAD	CW20-2	36X36
ROAD CLOSED AHEAD	CW20-3	36X36
ONE LANE ROAD	CW20-4	36X36
LEFT LANE CLOSED	CW20-5(1)	36X36
RIGHT LANE CLOSED	CW20-5(2)	36X36
FLAGGER (SYMBOL)	CW20-7	36X36
NARROW LANES AHEAD	CW20-8T	36X36
SHOULDER WORK AHEAD	CW21-5	36X36
UTILITY WORK AHEAD	CW21-7	36X36
DOUBLE REVERSE CURVE (1 LANE)	CW24-1	36X36
DOUBLE REVERSE CURVE (2 LANE)	CW24-1a	36X36
DOUBLE REVERSE CURVE (3 LANE)	CW24-1b	36X36
END ROAD WORK	G20-2	36X18
DETOUR WITH ARROWS	M4-9	30X24
END DETOUR	M4-8a	24X18
PEDESTRIAN DETOUR	M4-9b	30X24
DETOUR	M4-10	48X18

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APPROVED BY: Sukul Kanwar — CITY ENGINEER	APPROVED BY: HANG NGUYEN — CITY TRAFFIC ENGINEER
APPROVED BY: Carl Haddock — DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV-27-2023	DWG NO: 01554-08

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

TYPICAL CITY OF HOUSTON SIGNS

SHEET 1 OF 2

FOR CITY OF HOUSTON USE ONLY

DRAWING SCALE
NOT TO SCALE

infraTECH
Engineers & Innovators, LLC
TBPE REGISTRATION NO. F-18368
11111 WILCREST GREEN DR #410
HOUSTON, TEXAS 77042
OFFICE: 832-991-8164

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RESPONSIBLE ENGINEER:
ZAHIDUL Q. SIDDIQUE, P.E. 98635
10/24/2025

SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TURKEY GULLY

CITY OF HOUSTON STANDARD DETAILS

SHEET 6 OF 15

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE: N.T.S	
CITY OF HOUSTON PM: LOI MA	
SHEET NO. 231 OF 278	

$USER$
10/24/2025
$FILENAME$
Standards (All).dgn

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WARNING SIGNS

SIGN	SIGN DESIGNATION	SIZE (IN.)
RIGHT ANGLE TURN CURVE	W1-1	30x30
RIGHT ANGLE TURN WITH SPEED LIMIT	W1-1a	36x36
HORIZONTAL CURVE	W1-2	30x30
HORIZONTAL CURVE WITH SPEED LIMIT	W1-2a	36x36
REVERSE RIGHT ANGLE TURN	W1-3	30x30
REVERSE HORIZONTAL CURVE	W1-4	30x30
WINDING ROAD	W1-5	30x30
ONE DIRECTION LARGE ARROW	W1-6	48x24
TWO DIRECTION LARGE ARROW	W1-7	48x24
CHEVRON ALIGNMNET	W1-8	18x24
HAIRPIN CURVE	W1-11	30x30
TRUCK ROLLOVER	W1-13	36x36
CROSS ROAD	W2-1	30x30
SIDE STREET T-INTERSECTION (SYMBOL)	W2-2	30x30
T- INTERSECTION (SYMBOL)	W2-4	30x30
Y- INTERSECTION (SYMBOL)	W2-5	30x30
ROUNDABOUT (SYMBOL)	W2-6	30x30
STOP AHEAD	W3-1	30x30
SIGNAL AHEAD	W3-3	30x30
REDUCED SPEED LIMIT AHEAD	W3-5	36x36
MERGE	W4-1	36x36
LANE ENDS	W4-2	36x36
ADDED LANE	W4-3	36x36
CROSS TRAFFIC DOES NOT STOP (PLAQUE)	W4-4P	24x12
ROAD NARROWS	W5-1	36x36
NARROW BRIDGE	W5-2	36x36
DIVIDED HIGHWAY	W6-1	36x36
DIVIDED HIGHWAY ENDS	W6-2	36x36
TWO WAY TRAFFIC (SYMBOL)	W6-3	36x36
BUMP	W8-1	30x30
DIP	W8-2	30x30
PAVEMENT ENDS	W8-3	36x36
SOFT SHOULDER	W8-4	36x36
TRUCK CROSSING	W8-6	36x36
LOOSE GRAVEL	W8-7	36x36
ROUGH ROAD	W8-8	36x36
UNEVEN LANES	W8-11	36x36
WATCH FOR ICE ON BRIDGE	W8-13T	36x36
SHOULDER DROP-OFF (SYMBOL)	W8-17	30x30
SHOULDER DROP-OFF (PLAQUE)	W8-17P	24x18

WARNING SIGNS

SIGN	SIGN DESIGNATION	SIZE (IN.)
FLOOD GAUGE	W8-19	12X72
NO SHOULDER	W8-23	36x36
SHOULDER ENDS	W8-25	36x36
LEFT LANE ENDS	W9-1(1)	36x36
RIGHT LANE ENDS	W9-1(2)	36x36
LANE ENDS MERGE LEFT	W9-2(1)	36x36
LANE ENDS MERGE RIGHT	W9-2(2)	36x36
GRADE CROSSING ADVANCE WARNING	W10-1	30 DIA
NO TRAIN HORN	W10-9	36x36
NO TRAIN HORN (PLAQUE)	W10-9P	30x24
BICYCLE	W11-1	30x30
PEDESTRIAN	W11-2	36x36
EMERGENGY VEHICLE	W11-8	30x30
HANDICAPPED	W11-9	30x30
TRUCK	W11-10	30x30
EMERGENGY SIGNAL AHEAD (PLAQUE)	W11-12P	36x30
BICYCLE/PEDESTRIAN	W11-15	30x30
TRAIL CROSSING (PLAQUE)	W11-15P	24x18
DOUBLE ARROW	W12-1	30x30
LOW CLEARANCE WITH ARROWS	W12-2	36x36
LOW CLEARANCE	W12-2a	78x24
LOADED ZONED BRIDGE	W12-5T	36x36
ADVISORY SPEED (PLAQUE)	W13-1P	18x18
NO OUTLET	W14-2	24x24
NO OUTLET WITH ARROW	W14-2a	36x6
SHARE THE ROAD (PLAQUE)	W16-1P	18x24
XX FEET (PLAQUE)	W16-2P	24x18
NEXT XX FEET (PLAQUE)	W16-4P	30x24
SUPPLEMENTAL LEFT ARROW (PLAQUE)	W16-5P(1)	24x18
SUPPLEMENTAL RIGHT ARROW (PLAQUE)	W16-5P(2)	24x18
DIAGONAL ARROW (PLAQUE)	W16-7P	24x12
AHEAD (PLAQUE)	W16-9P	24x12
WHEN FLASHING (PLAQUE)	W16-13P	24x18
ROUNDABOUT (PLAQUE)	W16-17	24x12
SPEED HUMP	W17-1	30x30
TYPE 3 OBJECT MARKER (LEFT)	OM3-L	12x36
TYPE 3 OBJECT MARKER (RIGHT)	OM3-R	12x36
TYPE 3 OBJECT MARKER (CENTER)	OM3-C	12x36
TYPE 4 OBJECT MARKER	OM4-1	18x18

BICYCLE SIGNS

SIGN	SIGN DESIGNATION	SIZE (IN.)
STOP	R1-1	18x18
STREET NAME	D3-1	VARIESx6
YIELD	R1-2	18x18x18
TO REQUEST GREEN WAIT ON SYMBOL	R10-22	12x18
YIELD TO PEDESTRIAN	R9-6	18x18
NO PARKING BIKE LANE	R7-9	12x18
BIKE ROUTE	D11-1	24x18
BIKE ROUTE TO DOWNTOWN	D11-1c	24x18
BIKE SIGN AUXILARY SIGNS	M4-1, M4-14	12x6
BICYCLE ROUTE ROUTE ARROW SIGNS	M5-1,2; M6-1,2,3,4,5,6,7	12x9
WALK YOUR BIKE (CUSTOM SIGN)	R9-8 CoH	12x18
YIELD TO PED/BIKE (CUSTOM SIGN)	R1-5P3	36x36
TURNING VEHICLES YIELD TO PED/BIKE (CUSTOM SIGN)	R10-15PB	36x36
STOP FOR PED/BIKE (CUSTOM SIGN)	R1-5P3b	36x36
TURNING VEHICLES STOP FOR PED/BIKE (CUSTOM SIGN)	R10-15PBa	36x36
CROSSWALK STOP ON RED (CUSTOM SIGN)	R10-23 (CoH)	42x30
PEDESTRAIN CROSSING (CUSTOM SIGN)	W11-2 (HAWK)	48x30
LOOK BOTH WAYS (CUSTOM SIGN)	W4-4Pa (BIKE) W4-4Pb (BIKE)	VARIES
TURN WIDE (CUSTOM SIGN)	R3-8 (BIKE)	30x36
BIKE MERGE AHEAD (CUSTOM SIGN)	W11-1 (MERGE)	36x36

SCHOOL SIGNS

SIGN	SIGN DESIGNATION	SIZE (IN.)
SCHOOL	S1-1(FYG)	36x36
X:XX TO X:XX AM AND PM (PLAQUE)	S4-1P	24x10
SCHOOL (PLAQUE)	S4-3P(FYG)	24x8
WHEN FLASHING (PLAQUE)	S4-4P	24x10
REDUCED SCHOOL SPEED LIMIT AHEAD	S4-5a(FYG)	36x36
SCHOOL SPEED LIMIT XX WHEN FLASHING	S5-1(FYG)	24x48
END SCHOOL ZONE	S5-2	24x30
END SCHOOL ZONE (PLAQUE)	S5-2aTP	24x10
CELL PHONE USE PROHIBITED	S7-1T	24x18
TURN ARROW (PLAQUE)	SW16-5P(FYG)	24x12
ADVANCE TURN ARROW (PLAQUE)	SW16-5P(FYG)	24x12
DIAGONAL ARROW (PLAQUE)	SW16-7P(FYG)	24x12
AHEAD (PLAQUE)	S16-9P(FYG)	24x12

FYG- FLUORESCENT YELLOW-GREEN BACKGROUND COLOR

APPROVED BY:	APPROVED BY:
DocuSigned by: Sulaiman Kanwar	DocuSigned by: LIPING NGUYEN
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY: DocuSigned by: Carol Haddock	
DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV-27-2023	DWG NO: 01554-09

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

TYPICAL CITY OF HOUSTON SIGNS

SHEET 2 OF 2

FOR CITY OF HOUSTON USE ONLY

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NOT TO SCALE

infraTECH Engineers & Innovators, LLC
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HOUSTON, TEXAS 77042
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RESPONSIBLE ENGINEER:
ZAHIDUL Q. SIDDIQUE, P.E. 98635
10/24/2025

SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TURKEY GULLY

CITY OF HOUSTON STANDARD DETAILS

SHEET 7 OF 15

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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SHEET NO. 232 OF 278	

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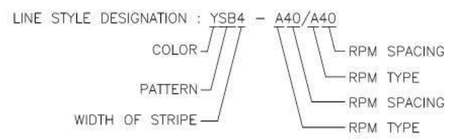
DESCRIPTION AND APPLICATION OF PAVEMENT MARKING LINES

LINE SERIES	COLOR	DESCRIPTION	WIDTH (INCHES)	TYPICAL APPLICATIONS
WB	WHITE	BROKEN (10' STRIPE W/30' GAP)	4"	LANE LINES BETWEEN TRAVEL LANES IN THE SAME DIRECTION WHERE CHANGING OF LANES IS PERMITTED.
WS	WHITE	SOLID	4"	EDGE LINES TO DELINEATE THE RIGHT EDGE OF THE ROADWAY.
			6"	LEFT EDGE OF BICYCLE LANE AND LANE LINES BETWEEN TRAVEL LANES IN THE SAME DIRECTION WHERE CHANGING OF LANES IS DISCOURAGED.
			12"	PERPENDICULAR CROSSWALK LINES.
			24"	STOP BARS AT INTERSECTIONS (SIGNALIZED AND UNSIGNALIZED).
				HATCHING AT HIGH VISIBILITY CROSSWALKS.
			12", 24"	DIAGONAL HATCHING USED IN GORES BETWEEN SAME DIRECTION OF TRAVEL LANES.
WG	WHITE	GUIDE (2' STRIPE W/6' GAP)	6"	GUIDE LINES THROUGH INTERSECTIONS.
				TAPER LINES FOR TURN LANES.
				GUIDE LINES FOR BICYCLE LANES.
YS	YELLOW	SOLID	4"	EDGE LINES TO DELINEATE THE LEFT EDGE OF A DIVIDED ROADWAY, A ONE-WAY ROAD, OR RAMP.
			6"	BIDIRECTIONAL BICYCLE LANE PAVEMENT MARKING.
			12", 24"	DIAGONAL HATCHING USED N GORES BETWEEN OPPOSING DIRECTION OF TRAVEL LANES.
YDS	YELLOW	DOUBLE SOLID	4" – (4") – 4" (GAP)	CENTERLINE THAT SEPARATES OPPOSING TRAVEL LANES AND DELINEATION OF MEDIAN ISLANDS.
YDB	YELLOW	DOUBLE BROKEN	4" – (4") – 4" (GAP)	DEFINES THE EDGES OF CENTER REVERSIBLE LANES THAT ARE USED AS TWLTLS DURING INTERMITTENT PERIODS.
YB	YELLOW	BROKEN (10' STRIPE W/30' GAP)	4"	SEPARATES TRAVEL LANES IN OPPOSITE DIRECTIONS WHERE PASSING IS PERMITTED IN BOTH DIRECTIONS OF TRAVEL.
YB (BIKE)	YELLOW	BROKEN (3' STRIPE W/9' GAP)	4"	SEPARATES BICYCLE TRAVEL LANES IN OPPOSITE DIRECTIONS WHERE PASSING IS PERMITTED IN EOTH DIRECTIONS OF TRAVEL.
YSB	YELLOW	SOLID & BROKEN BROKEN (10' STRIPE W/30' GAP)	4" – (4") – 4" (GAP)	SEPARATES TRAVEL LANES IN OPPOSITE DIRECTIONS WHERE PASSING IS PERMITTED IN ONE DIRECTION AND PROHIBITED IN THE OPPOSITE DIRECTION.
				USED FOR EDGE OF TWO-WAY LEFT TURN LANES (TWLTL).
BICYCLE GREEN	GREEN	SOLID COLORED PAVEMENT	VARIES	PED/BIKE CROSSING
				VEHICLE / BIKE/ CONFLICT AREA
YIELD LINE	WHITE	TRIANGLE	16" x 24"	MID-BLOCK CROSSING.

DESCRIPTION AND APPLICATION OF REFLECTIVE RAISED PAVEMENT MARKERS (RPM)

RRPM TYPES	COLOR	COH SPEC. SEC. 02764 EQUIVALENT	DESCRIPTION
C	CLEAR	TYPE I-C	APPROACH FACE THAT REFLECTS WHITE LIGHT, AND THE OTHER SIDE DOES NOT REFLECT.
R	CLEAR & RED	TYPE II-C-R	APPROACH FACE THAT REFLECTS WHITE LIGHT, AND THE OTHER SIDE REFLECTS RED LIGHT.
A	AMBER & AMBER	TYPE II-A-A	APPROACH FACE AND THE OTHER SIDE BOTH REFLECT AMBER LIGHT.



GENERAL PAVEMENT MARKING NOTES:

1. PRIOR TO START OF CONSTRUCTION, ALL EXISTING PAVEMENT MARKINGS WITHIN THE AREA OF CONSTRUCTION SHALL BE INVENTORIED AND DOCUMENTED JOINTLY BY THE CITY INSPECTOR AND THE CONTRACTOR. THIS DOCUMENT WILL BE JOINTLY SIGNED BY BOTH PARTIES REFLECTING ALL EXISTING PAVEMENT MARKINGS AND LANE CONFIGURATIONS WILL BE DUPLICATED AGAIN. THIS REVIEW CAN BE DONE IN CONJUNCTION WITH SIGN INVENTORY. THE CONTRACTOR IS HELD ACCOUNTABLE FOR EXISTING AND TEMPORARY CONSTRUCTION PAVEMENT MARKINGS THROUGHOUT THE PROJECT AND AT THE PROJECT'S COMPLETION.
2. ALL PAVEMENT MARKINGS SHALL CONFORM TO CITY OF HOUSTON STANDARDS AND SPECIFICATIONS AND GENERAL GUIDELINES OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD).
3. THE PERMANENT PAVEMENT MARKINGS MAY BE MODIFIED AS DIRECTED BY THE CITY TRAFFIC ENGINEER.
4. THE DESIGN SPEED FOR THE ROAD IS: _____. THE POSTED SPEED LIMIT IS: _____.
5. ALL LANE DIMENSIONS ARE FROM CENTER OF LANE LINE, CENTER OF DOUBLE LANE LINE, FACE OF CURB, OR EDGE OF PAVEMENT UNLESS OTHERWISE NOTED.
6. THE PAVEMENT MARKING DRAWINGS ARE SCHEMATIC ONLY. THE CONTRACTOR SHALL FOLLOW ALL DIMENSIONS, DETAILS, AND STANDARDS WHEN INSTALLING PAVEMENT MARKINGS AND SYMBOLS.
7. THE FINAL LONGITUDINAL STRIPINGS SHALL BE 60 MIL (0.060") THICK HOT-SPRAYED THERMOPLASTIC PLACED OVER THE TEMPORARY STRIPING WITHIN 14 TO 30 CALENDAR DAYS AFTER COMPLETION OF THE FINAL PAVEMENT SURFACE, OR AS DIRECTED BY THE CITY TRAFFIC ENGINEER. ALL OTHER PAVEMENT MARKINGS SHALL BE APPLIED AT THE SAME TIME. TEMPORARY STRIPING SHALL BE WATER BASED PAINT.
8. ALL FINAL TRANSVERSE MARKINGS SHALL BE 90 MIL (0.090") HOT-SPRAYED THERMOPLASTIC. ALL PAVEMENT ARROWS AND LEGENDS SHALL ALSO BE 90 MIL (0.090") HOT-SPRAYED THERMOPLASTIC. PREFORMED THERMOPLASTIC APPLICATIONS MAY BE USED IF ONLY APPROVED BY THE CITY TRAFFIC ENGINEER.
9. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LAYOUT AND INSTALLATION OF PAVEMENT MARKINGS OF FINAL SURFACE COURSE FOLLOWING CONTROL POINTS THAT HAVE BEEN SET NO MORE THAN 50 FEET APART ALONG THE LINES TO BE IMPLEMENTED. IN TANGENT SECTIONS OF A ROAD WHERE THE PAVEMENT MARKING PATTERN DOES NOT CHANGE, CONTROL POINTS CAN BE SET AT 200 FEET SPACING. THE LAYOUT AND INSPECTION OF ALL PAVEMENT MARKINGS SHALL BE APPROVED BY CITY OF HOUSTON REPRESENTATIVE PRIOR TO THE APPLICATION OF MATERIALS.
10. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT THE FINAL SURFACE COURSE IS PLACED SO THAT THE STRIPING IS OFFSET NO MORE THAN ONE FOOT CLEAR OF THE CONSTRUCTION JOINT, UNLESS OTHERWISE DIRECTED BY THE CITY TRAFFIC ENGINEER.
11. ALL RAISED PAVEMENT MARKERS (RPMS) SHALL BE INSTALLED SO THAT THE REFLECTIVE FACE OF EACH MARKER IS FACING THE DIRECTION OF TRAFFIC AND IS PERPENDICULAR TO THE DIRECTION OF TRAFFIC FLOW. TYPE C PAVEMENT MARKERS SHALL BE INSTALLED SO THAT THE CLEAR FACE OF EACH MARKER IS FACING THE APPROACHING TRAFFIC FLOW AND PERPENDICULAR TO THE DIRECTION OF TRAFFIC FLOW.
12. ALL REMOVAL OF EXISTING PAVEMENT MARKINGS SHALL BE ACCOMPLISHED IN ACCORDANCE TO CITY OF HOUSTON STANDARD SPECIFICATION 02762. APPLYING OVER EXISTING PAVEMENT MARKINGS DOES NOT CONSTITUTE AS APPROVED OBLITERATION METHOD.
13. THE ENGINEER OF RECORD SHALL BE REQUIRED TO PRODUCE AS-BUILT OF PAVEMENT MARKING PLANS WITHIN 30 DAYS AFTER COMPLETION OF PAVEMENT MARKING IMPLEMENTATION.
14. BLUE RPMS MAY BE PLACED ADJACENT TO FIRE HYDRANTS WITH THE APPROVAL OF THE CITY TRAFFIC ENGINEER.
15. FOR ALL CONSTRUCTION, ALL PAVEMENT MARKINGS AND SIGNING SHALL BE INSTALLED AND SHALL BE PAID BY THE PROJECT OWNER/DEVELOPER.
16. FINAL INSPECTION AND ACCEPTANCE OF PAVEMENT MARKINGS SHALL BE PERFORMED BY TRANSPORTATION & DRAINAGE OPERATION REPRESENTATIVE (713-803-3054).

APPROVED BY:	APPROVED BY:
DocuSigned by: Sukul kauwar	DocuSigned by: KHANG NGUYEN
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY: DocuSigned by: Carl Haddock	
DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV-27-2023	DWG NO: 02760-01

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

PAVEMENT MARKINGS GENERAL NOTES AND LEGENDS

FOR CITY OF HOUSTON USE ONLY

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infraTECH Engineers & Innovators, LLC
TBPE REGISTRATION NO. F-18368
11111 WILCREST GREEN DR #410
HOUSTON, TEXAS 77042
OFFICE: 832-991-8164

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

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RESPONSIBLE ENGINEER:
ZAHIDUL Q. SIDDIQUE, P.E. 98635
10/24/2025

SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TURKEY GULLY

CITY OF HOUSTON STANDARD DETAILS

SHEET 8 OF 15

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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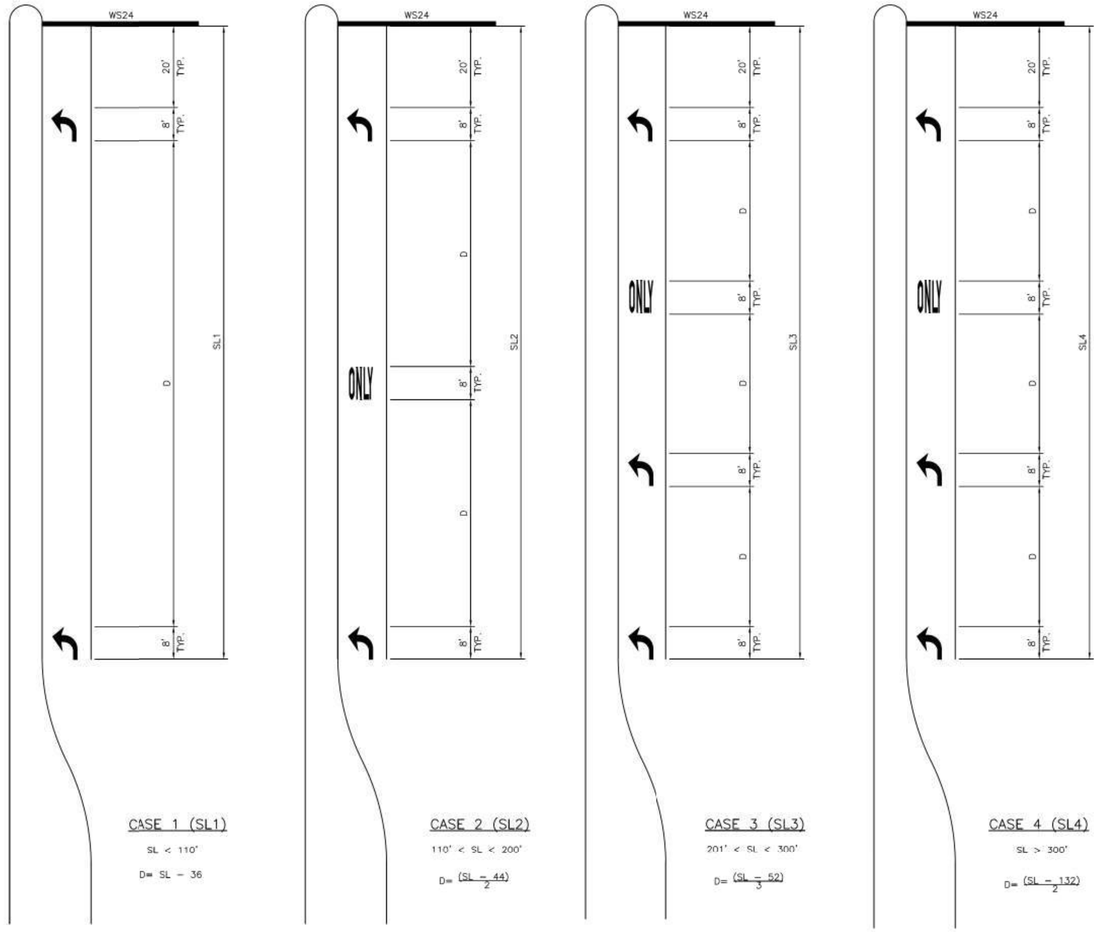

KEY (FOR TURN LANES ONLY):

SL – STORAGE LENGTH (FEET)

D – DISTANCE BETWEEN ARROWS AND/OR WORDS (FEET)

GENERAL NOTES:

1. ALL CASES AND DETAILS ALSO APPLY TO RIGHT–TURN LANES.
2. FOR DUAL–TURN LANES, DIMENSIONS SHALL BE THE SAME FOR EACH LANE.
3. SL DIMENSION IS FROM BACK OF STOP LINE TO END OF TURN LANE.
   NOTE: DO NOT INCLUDE TAPER LENGTH.
4. PAVEMENT ARROWS AND "ONLY" LEGEND MARKINGS ARE TYPICALLY USED AT ALL SIGNALIZED INTERSECTIONS AND AT ALL UNSIGNALIZED INTERSECTIONS THAT HAVE TURN LANES.
5. MINIMUM SL= 100'. SL MAY BE LESS THAN 100 FEET ONLY BY APPROVAL OF THE CITY TRAFFIC ENGINEER.

APPROVED BY:	APPROVED BY:
Sukhal Kanwar	KHANG NGUYEN
CITY ENGINEER	CITY TRAFFIC ENGINEER

APPROVED BY:

Carol Haddock

DIRECTOR OF HOUSTON PUBLIC WORKS

EFF DATE: NOV–27–2023	DWG NO: 02760–02

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

LEFT/RIGHT–TURN "ONLY" AND ARROW SPACING

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TBPE REGISTRATION NO. F-18368
11111 WILCREST GREEN DR #410
HOUSTON, TEXAS 77042
OFFICE: 832-991-8164

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RESPONSIBLE ENGINEER:
ZAHIDUL Q. SIDDIQUE, P.E. 98635
10/24/2025

SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TURKEY GULLY

CITY OF HOUSTON STANDARD DETAILS

SHEET 9 OF 15

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APPROVED BY: Sukul Tanwar — CITY ENGINEER	APPROVED BY: LONG NGUYEN — CITY TRAFFIC ENGINEER
APPROVED BY: Carol Haddock — DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV-27-2023	DWG NO: 02760-03

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

STANDARD PAVEMENT MARKING – (WORDS)

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ZAHIDUL Q. SIDDIQUE, P.E. 98635
10/24/2025

SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TURKEY GULLY

CITY OF HOUSTON
STANDARD DETAILS

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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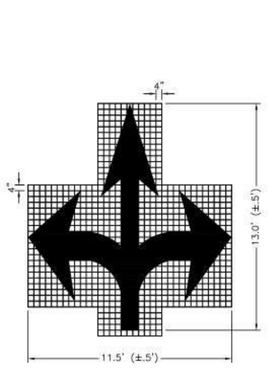

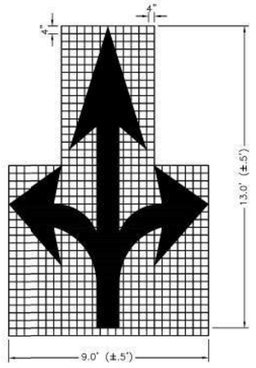

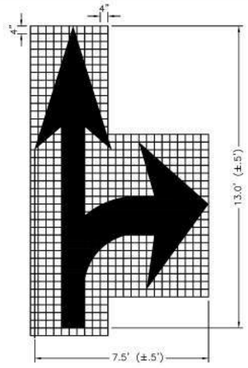

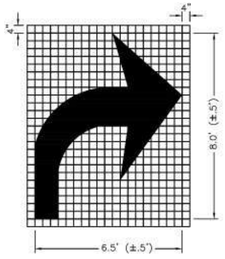

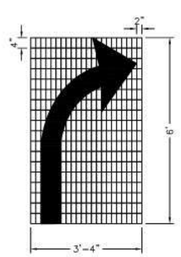

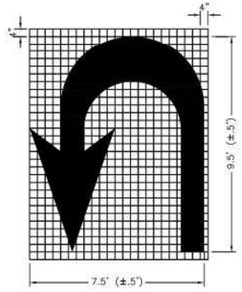

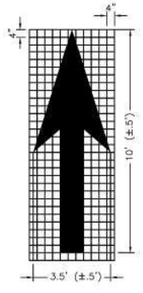

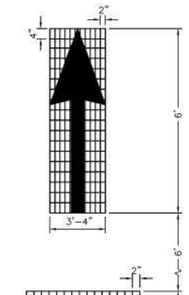

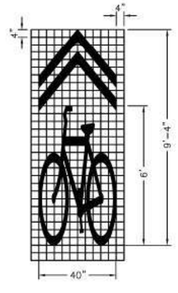

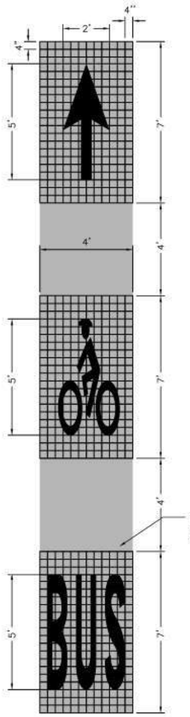

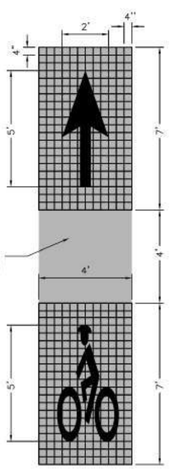

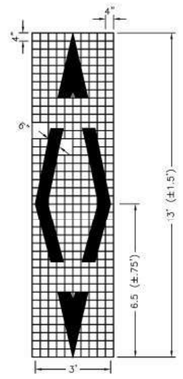

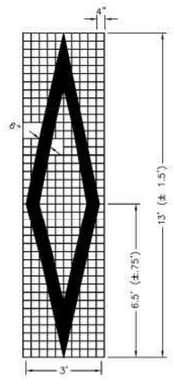

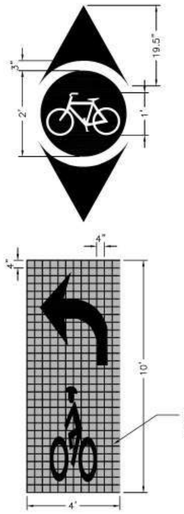

NOTES FOR PAVEMENT MARKINGS "SYMBOLS" AND "ARROWS":

1. MINIMUM 8 FOOT WHITE MARKINGS SHALL BE USED, UNLESS OTHERWISE NOTED. IF MESSAGE CONSISTS OF MORE THAN ONE WORD, IT SHOULD BE PLACED WITH FIRST WORD NEAREST THE DRIVER.
2. THESE DETAILS ARE STANDARD SIZE FOR NORMAL INSTALLATION; SIZES MAY BE REDUCED APPROXIMATELY ONE-THIRD DEPENDING ON CONDITIONS. SPECIAL PERMISSION NEEDED BY CITY TRAFFIC ENGINEER FOR REDUCTION BELOW ONE-THIRD OF STANDARD SIZES.
3. THE LONGITUDINAL SPACE BETWEEN MARKINGS SHOULD BE 30 FEET, OR AS INDICATED ON THE PLANS.
4. MARKINGS CONSIDERED APPROPRIATE FOR USE WHEN WARRANTED INCLUDE THE FOLLOWING:

   A. REGULATOR
      STOP
      RIGHT (LEFT) TURN ONLY, SYMBOL ARROWS.

   B. WARNING
      STOP AHEAD
      SIGNAL AHEAD
      SCHOOL
      SCHOOL X-ING
      PED X-ING
      R X R (SEE SHEET 02760-08 DETAILS
      OTHER WORDS OR SYMBOLS MAY BE NECESSARY UNDER CERTAIN CONDITIONS. SPECIAL PERMISSION NEEDED BY CITY TRAFFIC ENGINEER FOR SPECIAL CONDITIONS.

5. UNCONTROLLED USE OF PAVEMENT MARKINGS CAN RESULT IN DRIVER CONFUSION. WORD AND SYMBOL MARKINGS SHOULD BE NO MORE THAN THREE LINES.
6. THE WORD "STOP" SHALL NOT BE USED ON THE PAVEMENT UNLESS ACCOMPANIED BY A STOP LINE AND STOP SIGN. THE WORD "STOP" SHALL NOT BE PLACED ON THE PAVEMENT IN ADVANCE TO A STOP LINE, UNLESS EVERY VEHICLE IS REQUIRED TO STOP AT ALL TIMES (ALL-WAY STOP).
7. PAVEMENT MARKINGS SHOULD GENERALLY BE NO MORE THAN ONE LANE IN WIDTH, WITH SCHOOL MESSAGES BEING THE EXCEPTION. FOR DETAILS OF SCHOOL AND SCHOOL CROSSING PAVEMENT MARKINGS, REFER TO PART VI OF THE "TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES".
8. SPACING BETWEEN STANDARD SIZE LETTERS SHOULD BE 4 INCHES (MIN). THE WIDTH OF NON-STANDARD SIZE LETTERS MAY VARY DEPENDING ON THE WIDTH OF THE TRAVEL LANES. APPROVAL BY CITY TRAFFIC ENGINEER. SPECIAL PERMISSION NEEDED FOR NON-STANDARD SIZE "LETTER" AND/OR "ARROWS".
9. LANE-USE ARROW MARKINGS MAY BE USED TO CONVEY EITHER GUIDANCE OR MANDATORY MESSAGES. SINGLE TURN ARROWS USED TO CONVEY A MANDATORY MOVEMENT MUST BE ACCOMPANIED STANDARD SIGNS AND THE PAVEMENT MARKING WORD "ONLY".
10. PAVEMENT MARKINGS ARE TO BE LOCATED AS SPECIFIED IN THE DESIGN PLANS.

APPROVED BY:	APPROVED BY:
Sukul kanwar	KHANG NGUYEN
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY: Carol Haddock	
DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV-27-2023	DWG NO: 02760-04

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

STANDARD PAVEMENT MARKING - SYMBOLS

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DRAWING SCALE	
NOT TO SCALE	

infraTECH Engineers & Innovators, LLC
TBPE REGISTRATION NO. F-18368
11111 WILCREST GREEN DR #410
HOUSTON, TEXAS 77042
OFFICE: 832-991-8164

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RESPONSIBLE ENGINEER:
ZAHIDUL Q. SIDDIQUE, P.E. 98635
10/24/2025

SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TURKEY GULLY

CITY OF HOUSTON
STANDARD DETAILS

SHEET 11 OF 15

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
N.T.S	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 236 OF 278	

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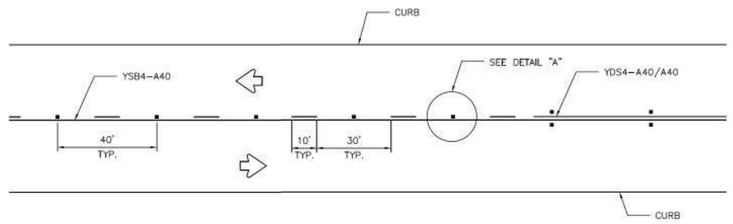
$USER$
10/24/2025
$FILEABBREV$
Standards (All).dgn

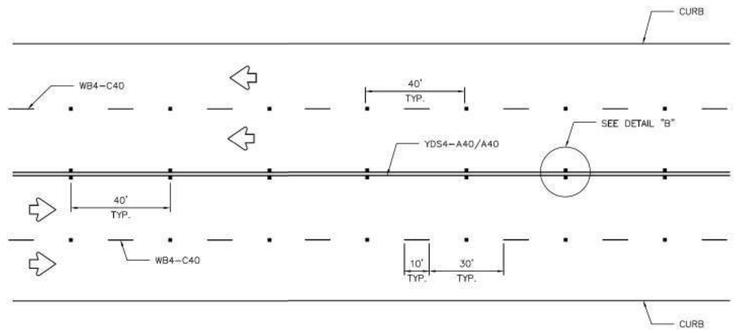
DocuSign Envelope ID: 9B122261-CF05-457B-9A65-2650F40B66D5

CENTERLINE & FOR ALL TWO LANE STREETS WITH PASSING ZONE

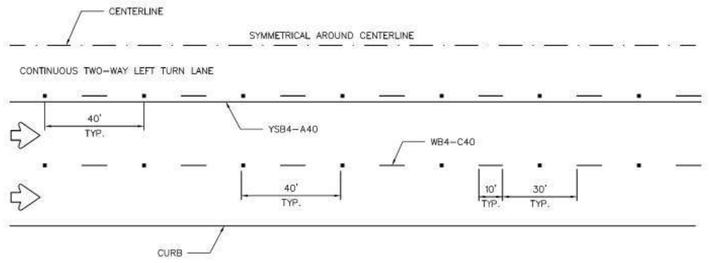


CENTERLINE & LANE LINES FOR FOUR LANE TWO–WAY STREETS

RRPM TYPE C, CLEAR FACE TOWARD NORMAL TRAFFIC, SHALL BE PLACED ON 40–FOOT CENTERS.

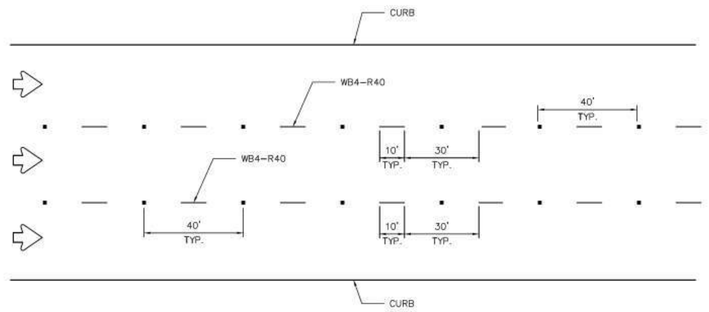


CENTERLINE & LANE LINES FOR TWO–WAY LEFT TURN LANE



LANE LINES FOR ONE–WAY MULTILANE STREET

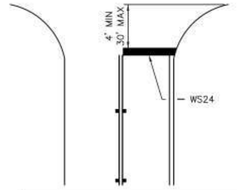
RRPM TYPE R SHALL HAVE CLEAR FACE TOWARD NORMAL TRAFFIC AND RED FACE TOWARD WRONG–WAY TRAFFIC.



GENERAL NOTES:

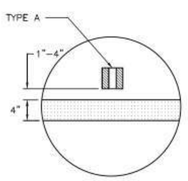
1. EDGELINE ADJACENT TO CURB AND GUTTER IS NOT REQUIRED IN ALL CASES, HOWEVER SHALL BE PLACED AS DIRECTED BY CITY TRAFFIC ENGINEER.
2. THE TRAVELED WAY INCLUDES ONLY THAT PORTION OF THE ROADWAY USED FOR VEHICULAR TRAVEL AND NOT THE PARKING LANES, SIDEWALKS, BERMS AND SHOULDERS. THE TRAVELED WAYS SHALL BE MEASURED FROM THE INSIDE OF EDGELINE TO INSIDE OF EDGELINE OF A TWO LANE ROADWAY.
3. ALL RAISED PAVEMENT MARKERS PLACED IN BROKEN LINES SHALL BE PLACED IN LINE WITH AND MIDWAY BETWEEN THE STRIPES.
4. ON CONCRETE PAVEMENTS THE RAISED PAVEMENT MARKERS SHOULD BE PLACED TO ONE SIDE OF THE LONGITUDINAL JOINTS.
5. ALL PAVEMENT MARKING MATERIAL SHALL MEET THE REQUIRED MATERIAL SPECIFICATIONS AS SPECIFIED BY CITY OF HOUSTON STANDARD SPECIFICATIONS.

GUIDE FOR PLACEMENT OF STOP LINES & CENTERLINE

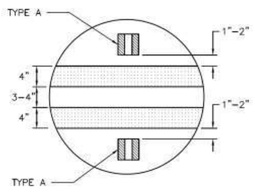


APPROVED BY:	APPROVED BY:
Date Signed by: Sukut Kanwar	Date Signed by: HANG NGUYEN
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY: Date Signed by: Carol Haddock	
DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV–27–2023	DWG NO: 02760–05

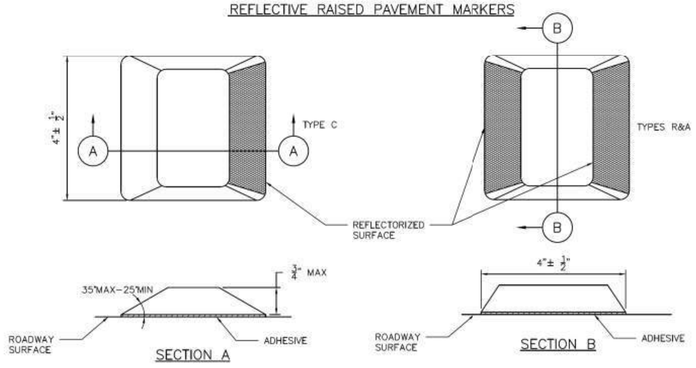
DETAIL "A"



DETAIL "B"



REFLECTIVE RAISED PAVEMENT MARKERS



CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

STANDARD PAVEMENT MARKINGS WITH REFLECTIVE RAISED PAVEMENT MARKERS FOR POSITION GUIDANCE

	FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE	
NOT TO SCALE	

DISCLAIMER:
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HOUSTON, TEXAS 77042
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RESPONSIBLE ENGINEER:
ZAHIDUL Q. SIDDIQUE, P.E. 98635
10/24/2025

SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TURKEY GULLY

CITY OF HOUSTON STANDARD DETAILS

SHEET 12 OF 15

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
N.T.S	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 237 OF 278	

$USER$
10/24/2025
$FILEABBREV$
Standards (All).dgn

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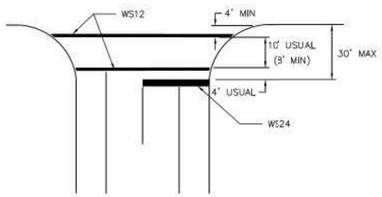
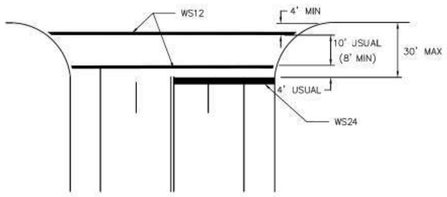
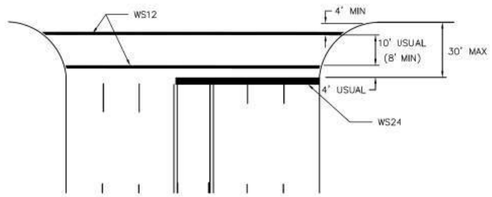
TWO LANES WITH SHOULDERS



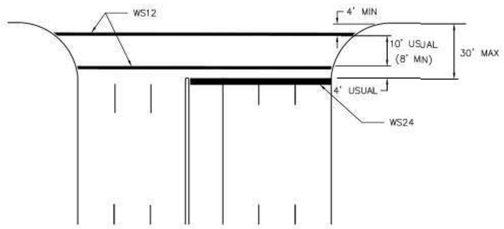
FOUR LANES WITH SHOULDERS



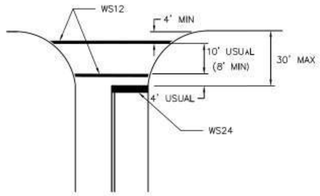
MULTI – LANES



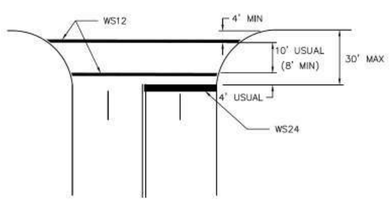
MULTI – LANE WITH MEDIAN



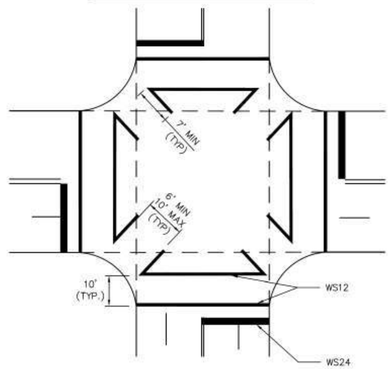
TWO LANES



FOUR LANES



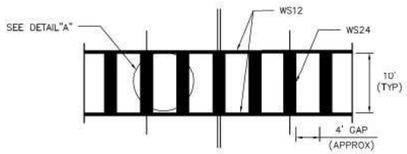
EXCLUSIVE PEDESTRIAN PHASE



NOTES:

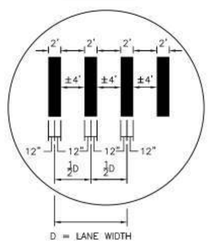
1. CROSSWALKS AND STOP LINES SHALL BE WHITE.
2. "D" IS EQUAL TO ONE HALF THE WIDTH OF TRAVEL LANE.

HIGH VISIBILITY CROSSWALK DETAIL



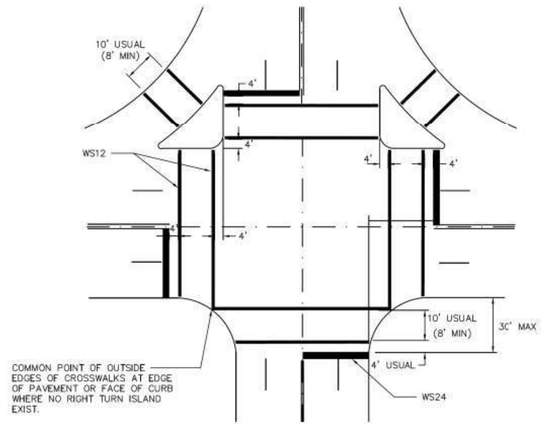
TYPICALLY USED AT SIGNALIZED AND NON-SIGNALIZED CROSSINGS ON COLLECTOR AND ARTERIAL ROADWAYS AND AT LOCATIONS REQUIRING EXTRA EMPHASIS.

DETAIL "A"



D = LANE WIDTH

INTERSECTION WITH RIGHT – TURN ISLANDS



APPROVED BY:	APPROVED BY:
DocuSigned by: Suhail Kanuar	DocuSigned by: LIPHONG NGUYEN
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY: DocuSigned by: Carl Haddock	
DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV-27-2023	DWG NO: 02760-12

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

TYPICAL CROSSWALK DETAILS

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RESPONSIBLE ENGINEER:
ZAHIDUL Q. SIDDIQUE, P.E. 98635
10/24/2025

SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TURKEY GULLY

CITY OF HOUSTON STANDARD DETAILS

SHEET 13 OF 15

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
N.T.S	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 238 OF 278	

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$USER$
10/24/2025
$FILEABBREV$
Standards (All).dgn

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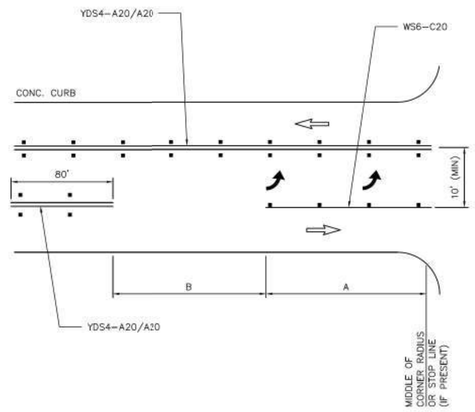
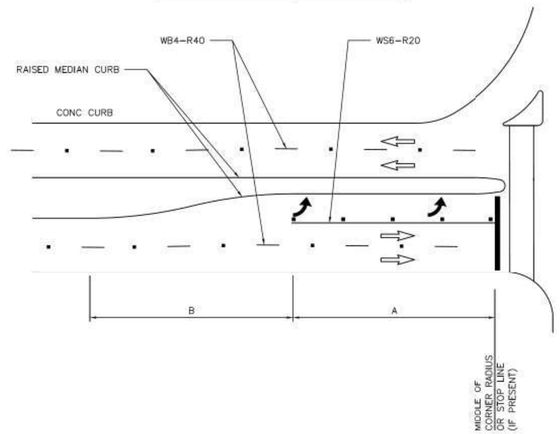
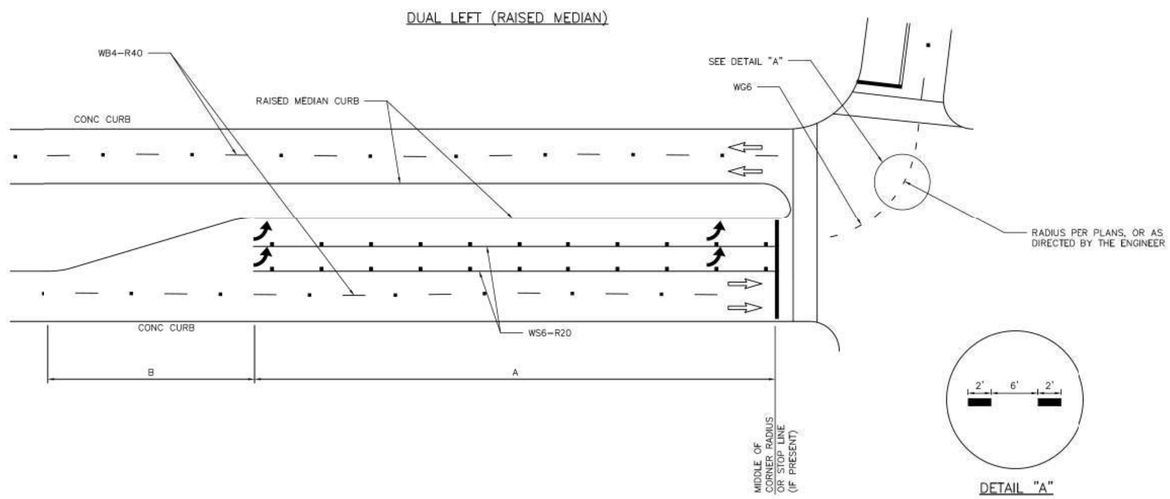
LEFT-TURN LANE



LEFT-TURN LANE (RAISED MEDIAN)



DUAL LEFT (RAISED MEDIAN)



GENERAL NOTES:

1. THE DIMENSIONS GIVEN FOR DUAL LEFT (RAISED MEDIAN) ON THIS SHEET ARE ALSO APPLICABLE FOR DUAL RIGHT-TURN LANES.
2. STORAGE LENGTHS LONGER THAN THE MINIMUMS LISTED ON THIS DRAWING MAY BE DETERMINED USING TRAFFIC ENGINEERING ANALYSIS.
3. FOR THE PLACEMENT OF PAVEMENT ARROWS AND WORDS REFER TO 02760-02 – LEFT/RIGHT TURN "ONLY" AND ARROW SPACING.
4. REFER TO APPLICABLE STANDARD PAVEMENT MARKINGS WITH REFLECTIVE RAISED PAVEMENT MARKERS FOR POSITION GUIDANCE AND LEFT- TURN & RIGHT-TURN LANE STANDARD PAVEMENT MARKINGS WITH REFLECTIVE RAISED PAVEMENT MARKINGS.
5. REFER TO BICYCLE LANE PAVEMENT MARKINGS STANDARD FOR TYPE AND PLACEMENT.

LEFT TURN BAY NOTES:

1. LEFT TURN BAY DIMENSIONS
   A = 150' MINIMUM AT INTERSECTION OF TWO (2) MAJOR STREETS WHEN PRACTICAL.
   = 100' MINIMUM AT ALL OTHER INTERSECTIONS.

   B = 100' MINIMUM ON STRAIGHT ROADWAYS.
   *TAPER LENGTH MAY BE SHORTER IF IT IS ON A HORIZONTAL CURVE TO THE LEFT.
   *TAPER LENGTH MAY BE LONGER IF CURVE IS TO THE RIGHT.
2. DIMENSIONS SHALL BE ADJUSTED AS DETERMINED BY CITY OF HOUSTON TRAFFIC ENGINEER.
3. REFER TO CITY OF HOUSTON INFRASTRUCTURE DESIGN MANUAL (FIGURE 10.8) FOR DETAILS.

APPROVED BY:	APPROVED BY:
Digitally signed by: Sidiul Kauwar	Digitally signed by: LINING NGUYEN
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY: Digitally signed by: Carol Haddock	
DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV-27-2023	DWG NO: 02760-13

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

LEFT-TURN LANE & RIGHT-TURN LANE DESIGN

SHEET 01 OF 02

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OFFICE: 832-991-8164

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RESPONSIBLE ENGINEER:
ZAHIDUL Q. SIDDIQUE, P.E. 98635
10/24/2025

SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TURKEY GULLY

CITY OF HOUSTON STANDARD DETAILS

SHEET 14 OF 15

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
N.T.S	
CITY OF HOUSTON PM	
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SHEET NO. 239 OF 278	

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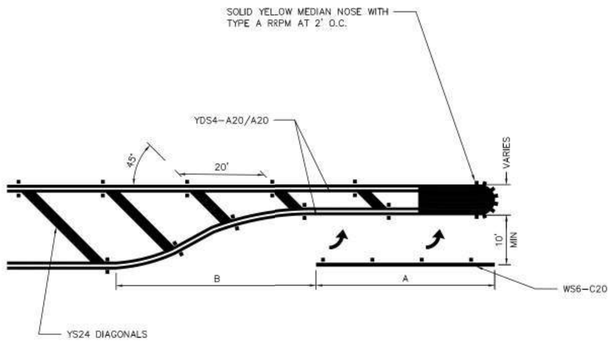
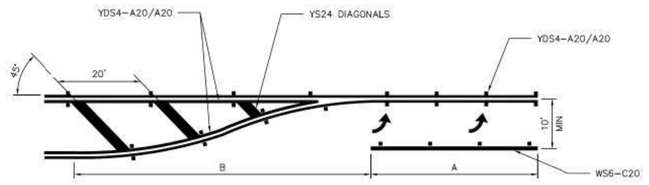
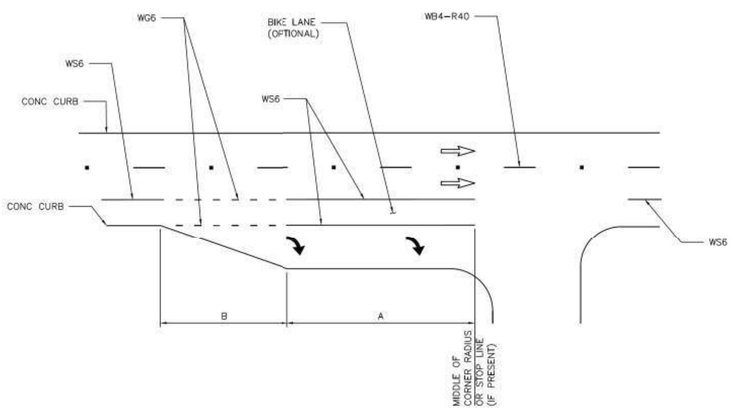
PAINTED MEDIAN LEFT TURN BAY DETAILS





UNSIGNALIZED RIGHT-TURN LANE



GENERAL NOTES:

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2. FOR THE PLACEMENT OF PAVEMENT ARROWS AND WORDS REFER TO 02760-02 – LEFT/RIGHT TURN "ONLY" AND ARROW SPACING.
3. REFER TO APPLICABLE STANDARD PAVEMENT MARKINGS WITH REFLECTIVE RAISED PAVEMENT MARKERS FOR POSITION GUIDANCE AND LEFT-TURN & RIGHT-TURN LANE STANDARD PAVEMENT MARKINGS WITH REFLECTIVE RAISED PAVEMENT MARKINGS.
4. REFER TO BICYCLE LANE PAVEMENT MARKINGS STANDARD FOR TYPE AND PLACEMENT.

LEFT TURN BAY NOTES:

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2. DIMENSIONS SHALL BE ADJUSTED AS DETERMINED BY CITY OF HOUSTON TRAFFIC ENGINEER.
3. REFER TO CITY OF HOUSTON INFRASTRUCTURE DESIGN MANUAL (FIGURE 10.8) FOR DETAILS.

APPROVED BY:	APPROVED BY:
Docusigned by: Suhail Kanwar	Docusigned by: HUNG NGUYEN
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY: Docusigned by: Carol Haddock	
DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV-27-2023	DWG NO: 02760-14

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

LEFT TURN LANE &
RIGHT TURN LANE DESIGN

SHEET 02 OF 02

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RESPONSIBLE ENGINEER:
ZAHIDUL Q. SIDDIQUE, P.E. 98635
10/24/2025

SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

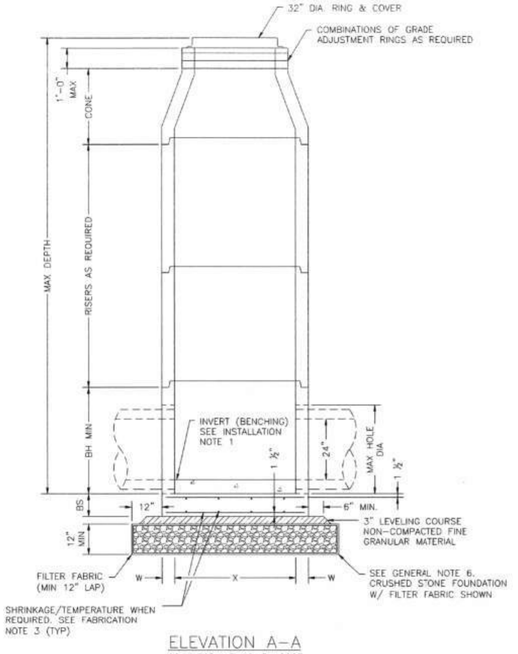
TURKEY GULLY

CITY OF HOUSTON STANDARD DETAILS

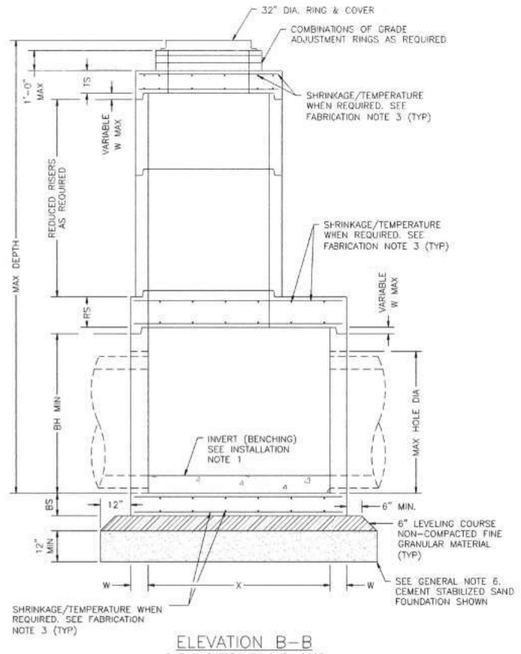
SHEET 15 OF 15

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
N.T.S	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. **240** OF **278**	

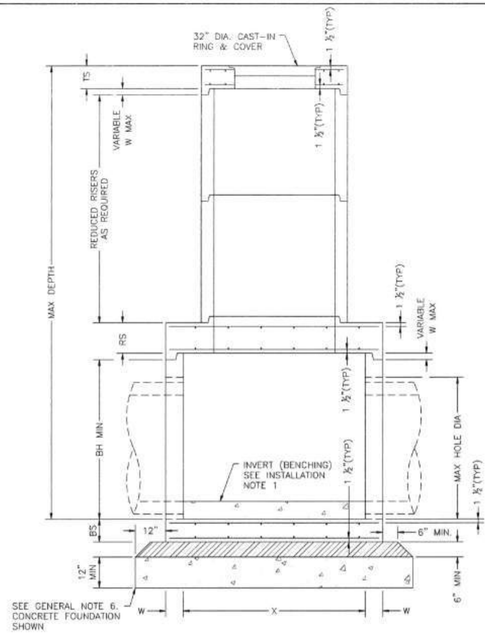
$USER$
10/24/2025
$FILEABBREV$
Standards (All).dgn



ELEVATION A–A
CONE TOP WITH SHIP LOOSE RING & COVER OPTION



ELEVATION B–B
FLAT SLAB TOP WITH SHIP LOOSE RING & COVER OPTION



ELEVATION C–C
FLAT SLAB TOP WITH INVERTED RING & COVER OPTION

FABRICATION NOTES:

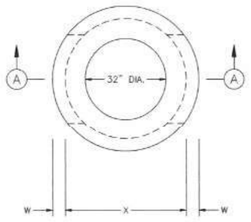
1. PROVIDE CLASS "H" CONCRETE IN ACCORDANCE WITH TEXAS DEPARTMENT OF TRANSPORTATION ITEM 421 AND HAVING A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI.
2. PROVIDE GRADE 60 REINFORCING STEEL OR EQUIVALENT AREA OF WWR. PROVIDE CIRCUMFERENTIAL REINFORCING STEEL IN VERTICAL WALLS OF BASE, RISER AND CONE IN ACCORDANCE WITH ASTM C478.
3. SLABS WITH A THICKNESS OF 8" OR GREATER REQUIRE SHRINKAGE AND TEMPERATURE REINFORCING STEEL. PROVIDE STEEL AREA = 0.11 IN^2/FT EACH WAY.
4. MANUFACTURE BASE AND RISERS TO NEAREST 3" INCREMENT.
5. DESIGN TONGUE AND GROOVE JOINTS FOR FULL CLOSURE ON BOTH SHOULDERS. MINIMUM SPIGOT DEPTH IS ¾".
6. PROVIDE LIFTING DEVICES IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS.
7. PROVIDE CAST IRON SOLID COVER, UNLESS NOTED OTHERWISE ELSEWHERE IN THE PLANS.
8. THREE DIFFERENT OPTIONS FOR CAPPING THE MANHOLE RISER NEAR THE FINISHED GRADE ARE SHOWN. CONES CAN BE USED WHEN COVER IS SUFFICIENT TO ALLOW FOR PROPER PLACEMENT. FLAT LIDS ARE TO BE USED WHERE COVER IS LIMITED.

INSTALLATION NOTES:

1. IF REQUIRED ELSEWHERE, INVERTS (BENCHING) TO BE PROVIDED BY CONTRACTOR. CONCRETE OR MORTAR USED FOR INVERT IS SUBSIDIARY TO THIS ITEM. REFER TO CITY OF HOUSTON SPECIFICATION SECTION 02082 FOR INVERT (BENCHING) REQUIREMENTS.
2. SEAL TONGUE AND GROOVE JOINTS WITH PREFORMED OR BULK MASTIC IN CONFORMANCE WITH MANUFACTURER'S RECOMMENDATIONS. TONGUE AND GROOVE JOINTS MAY BE GROUTED NO MORE THAN 1" BETWEEN EACH SECTION, OR ½ THE JOINT DEPTH, WHICHEVER IS GREATER.
3. DO NOT GROUT RUBBER GASKET JOINTS WITHOUT MANUFACTURER'S RECOMMENDATION.
4. INITIAL INSTALLATION OF GRADE ADJUSTMENT RINGS IS LIMITED TO 1'-0" MAX AS SHOWN.
5. GRADE ADJUSTMENT RINGS MAY BE INCREASED TO 1'-6" MAX WHEN FUTURE CONSTRUCTION AFFECTS FINAL GRADE OF STRUCTURE. ADJUSTMENTS GREATER THAN 1'-6" WITH ADDITIONAL RISERS, ADJUSTMENTS MAY BE MADE UP TO THE MAX DEPTH OF 25'-0". STRUCTURE MUST BE EVALUATED IF MAX DEPTH WILL BE EXCEEDED.

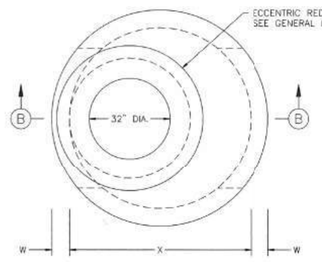
GENERAL NOTES:

1. SEE TABLE 1 FOR MINIMUM DESIGN REQUIREMENTS. CONCENTRIC RISER WITH RESPECT TO BASE (ALTERNATIVE CONFIGURATION) FALLS OUTSIDE THE SCOPE OF REQUIREMENTS PROVIDED. ENGINEER OF RECORD ACCEPTS RESPONSIBILITY FOR SAFETY AND ADEQUACY OF MANHOLE IF THE ALTERNATIVE CONFIGURATION IS USED.
2. DESIGNED ACCORDING TO ASTM C478.
3. PAYMENT FOR PRECAST MANHOLE PER SECTION 02082 "PRECAST CONCRETE MANHOLES".
4. PIPE OD + PLACEMENT TOLERANCE MUST BE EQUAL OR LESS THAN MAX HOLE DIA. FOR RIGID PIPE, PLACEMENT TOLERANCE IS 4" MAX, 2" MIN. FOR FLEXIBLE PIPE, CONSULT BOOT/SEAL MANUFACTURER'S SPECIFICATION FOR PLACEMENT TOLERANCE.
5. STORM WATER SEWER PIPE INTERNAL DIA SHALL NOT BE LESS THAN 24".
6. FOUNDATION/SUBGRADE TO BE DESIGNED BY ENGINEER AND MEET MINIMUM REQUIREMENTS ACCORDING TO SECTION 02082.
7. ALL STORM WATER MANHOLES ARE TO BE PRECAST CONCRETE, UNLESS OTHERWISE NOTED ELSEWHERE IN THE PLANS.
8. ECCENTRIC REDUCED RISER WITH RESPECT TO BASE IS THE PREFERRED MANHOLE CONFIGURATION. CONCENTRIC REDUCED RISER WITH RESPECT TO BASE MANHOLE CONFIGURATION IS AN ALTERNATIVE DESIGN SUBJECT TO INSPECTION WILL BE ACCEPTED BASED ON THE NEEDS OF THE CITY OF HOUSTON.
9. CONES MAY BE CONCENTRIC OR ECCENTRIC. REDUCTION CONES ARE ACCEPTABLE. REFER TO MANUFACTURER FOR CONE DIMENSIONS.
10. MANHOLE SIZE SHALL CONSIDER ENGINEERING ECONOMY. THIS DETAIL IS NOT APPLICABLE TO ROUND MANHOLES LARGER THAN 8–FOOT DIA.



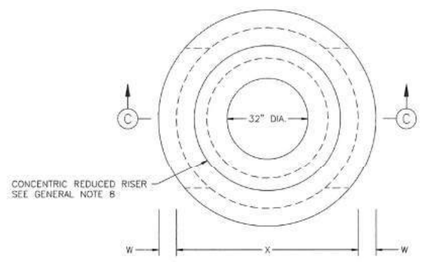
PLAN VIEW A
COVER NOT SHOWN

4–FT DIA MANHOLE



PLAN VIEW B
COVER NOT SHOWN

5–FT & 6–FT DIA MANHOLE
ECCENTRIC MANHOLE
(PREFERRED CONFIGURATION)



PLAN VIEW C
COVER NOT SHOWN

5–FT & 6–FT DIA MANHOLE
CONCENTRIC MANHOLE
(ALTERNATE CONFIGURATION)

TABLE 1

PRECAST ROUND MANHOLE (PRM) MINIMUM REQUIREMENTS FOR 24 IN. TO 42 IN. INTERNAL DIA STORM SEWER PIPES

	SIZE	BASE SLAB THICKNESS	BASE UNIT OR RISER THICKNESS	REDUCED RISER DIA	REDUCING SLAB THICKNESS	TOP SLAB THICKNESS	MAX DEPTH TO TOP OF BASE SLAB	MIN HEIGHT	MAX HOLE DIA
	X	BS	W	ID	RS	TS	MAX DEPTH	BH MIN	MAX HOLE DIA
	FT	IN.	IN.	IN.	IN.	IN.	FT.	IN.	IN.
PRM	4	9	5	–	–	9	25	42	35
	5	9	6	48	9	9	25	42	42
	6	9	7	48/60*	12	9	25	42	56

(*) 60–IN REDUCED RISER IS TO BE USED WHEN DEEMED NECESSARY TO SATISFY WALL PENETRATION SPACING REQUIREMENTS.

DISCLAIMER:
THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. THE DESIGN REQUIREMENTS ON THIS STANDARD DO NOT PURPORT TO ADDRESS ALL OF THE SAFETY CONCERNS ASSOCIATED WITH THEIR USE. THE ENGINEER OF RECORD (EOR) IS TO REVIEW THESE DESIGN REQUIREMENTS AND BY UTILIZING THIS STANDARD ASSUMES RESPONSIBILITY FOR SAFETY AND ADEQUACY OF THE DESIGN. THE AUTHORS AND OWNERS OF THIS STANDARD, BY MAKING IT AVAILABLE FOR USE, ACCEPTS NO RESPONSIBILITY FOR DAMAGES OR OTHER LIABILITY OF ANY KIND THAT MAY RESULT FROM ITS USE. FOR ANY PURPOSES WHATSOEVER, THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

STORM SEWER TYPE 'C'
PRECAST ROUND MANHOLE

(NOT TO SCALE)

APPROVED BY:	APPROVED BY:
Suhail Kanwar	Carol Haddock
CITY ENGINEER	DIRECTOR OF HOUSTON PUBLIC WORKS
EFF DATE: JUL-01-2021	DWG NO: 02082-12

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5581
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

STORM SEWER DETAILS
COH STANDARDS

SHEET 1 OF 6

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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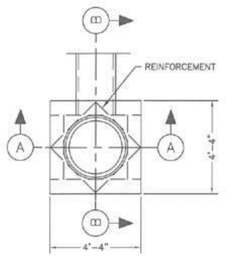
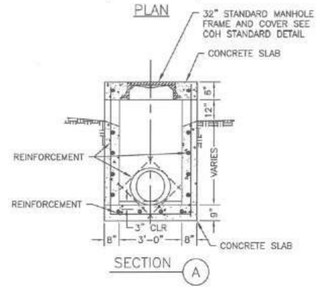
DRAWING SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 241 OF 278	

10/23/2025
...\STORM SEWER TYPE C PRECAST ROUND MANHOLE.dgn

02632-09



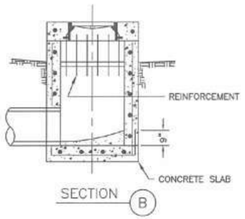
PLAN



SECTION A

NOTE:

1. TYPE "E" INLET TOP CAN BE CONSTRUCTED ON A STANDARD "C" MANHOLE.

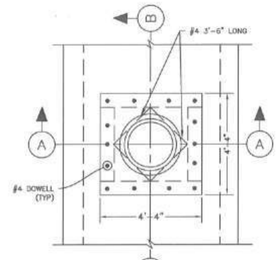


SECTION B

STORM SEWER TYPE "E" INLET
NTS

02632-10

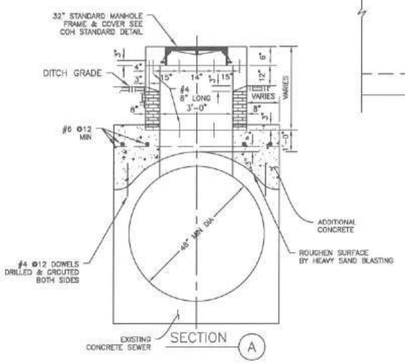
COH IS PHASING OUT BRICK, NEW DETAILS TO BE POSTED END OF 2019



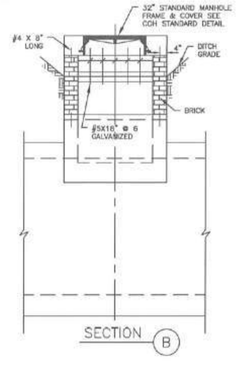
PLAN OF TYPE "E"
(COVER NOT SHOWN)

NOTE:

1. 8" CONCRETE WALLS MAY BE CONSTRUCTED IN LEU OF 8" BRICK WALLS.



SECTION A



SECTION B

STORM SEWER TYPE "E" INLET ON EXIST MONOLITHIC CONC SEWERS OF 48" DIA & GREATER
NTS

FIRM INFORMATION

ENGINEER'S SEAL

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

STORM SEWER
02632-09
AND 02632-10

APPROVED BY: CITY ENGINEER

APPROVED BY: DEPUTY DIRECTOR

APPROVED BY: DIRECTOR

EFFECTIVE DATE: JUL-01-2019
FOR CITY OF HOUSTON USE ONLY

SHEET NO.

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591

TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

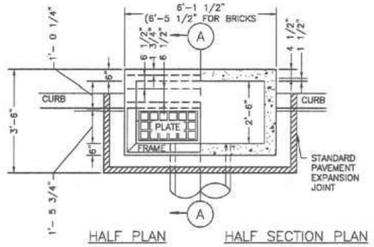
TURKEY GULLY

STORM SEWER DETAILS
COH STANDARDS

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 242 OF 278	

Asset E
10/23/2025
J:\STORM SEWER TYPE E INLET
STORM SEWER TYPE E INLET.dgn

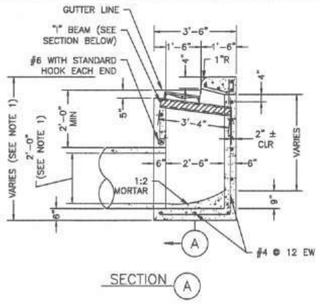
02632-04



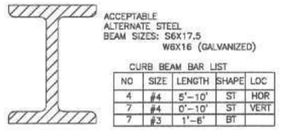
HALF PLAN HALF SECTION PLAN

GENERAL NOTES:

USE STANDARD CAST IRON FRAME & PLATES. LEAD SHALL LEAVE INLET AT LOCATION AND GRADE REQUIRED.



SECTION A



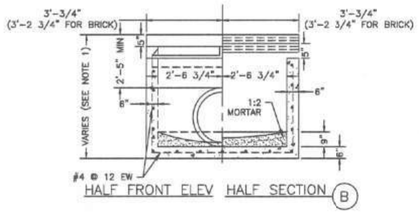
CURB BEAM BAR LIST

NO	SIZE	LENGTH	SHAPE	LOC
4	#4	5'-10"	ST	HOR
7	#4	0'-10"	ST	VERT
7	#3	1'-8"	BT	

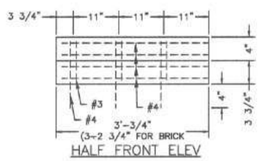
SECTION THRU BEAM

NOTES:

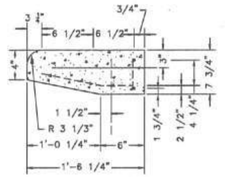
1. DIMENSION VARIES BASED ON PIPE DIAMETER AND WALL THICKNESS.
2. CENTER REINFORCING IN SLAB AND WALLS. CENTER STEEL BEAM ON INLET AND CAST INTO WALLS AS SHOWN.
3. WHEN TOP OF CURB TO FLOWLINE IS GREATER THAN 8 FEET USE TYPE "C" INLET.



HALF FRONT ELEV HALF SECTION



HALF FRONT ELEV



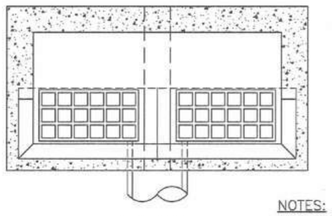
TRANSVERSE SECTION

PRECAST CURB BEAM

STORM SEWER TYPE "B-B" INLET
NTS

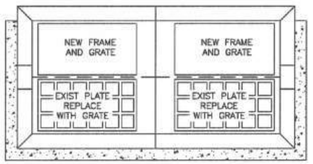
02632-05

STEP 1: EXIST TYPE "B" INLET



TOP VIEW

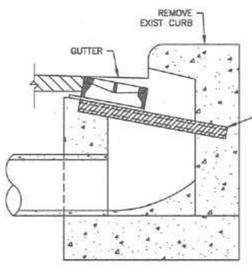
STEP 2:



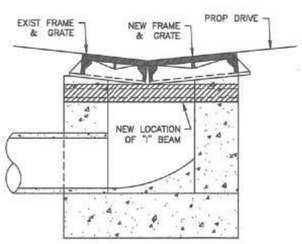
TOP VIEW

NOTES:

1. AFTER REMOVING EXIST CURB, RAISE EXIST FRAME TO GUTTER GRADE.
2. REPLACE EXIST PLATE WITH A GRATE.
3. ADD NEW FRAME AND GRATE NEXT TO EXIST FRAME.
4. BACKFILL INLET TO A POINT ONE FOOT BEHIND THE CURB WITH 1 SACK/TON CEMENT STABILIZED SAND.



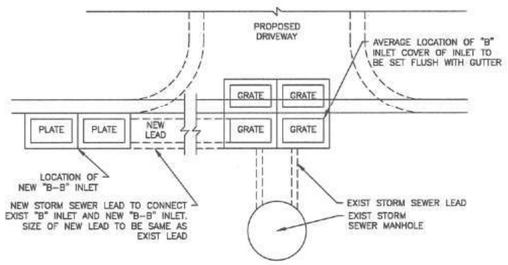
SIDE VIEW



SIDE VIEW

STORM SEWER TYPE "B" INLET RELOCATION
NTS

STEP 3: CONSTRUCT NEW TYPE "B-B" INLET ON CURB RETURN OF PROPOSED DRIVEWAY



FIRM INFORMATION ENGINEER'S SEAL

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

STORM SEWER
02632-04 THROUGH 05

APPROVED BY: CITY ENGINEER
APPROVED BY: DEPUTY DIRECTOR
APPROVED BY: DIRECTOR
EFFECTIVE DATE: JUL-01-2019
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P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

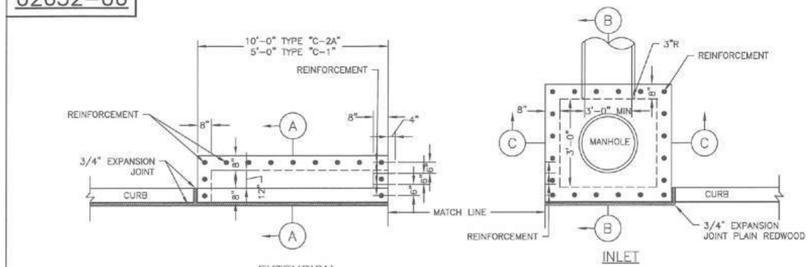
STORM SEWER DETAILS
COH STANDARDS

SHEET 3 OF 6

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 243 OF 278	

Asset
10/23/2025
I:\STORM SEWER TYPE B-B INLET & TYPE B INLET RELOCATION
STORM SEWER TYPE B-B INLET & TYPE B INLET RELOCATION.dgn

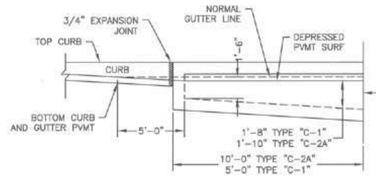
02632-06



EXTENSION

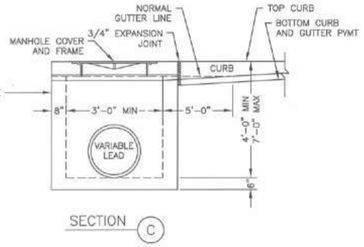
INLET

PLAN

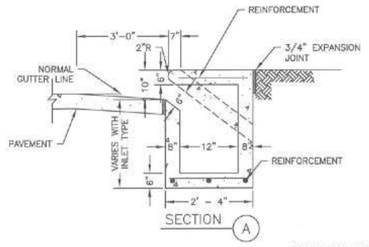


ELEVATION

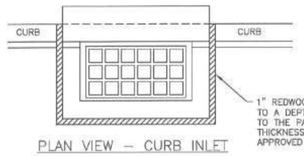
MATCH LINE



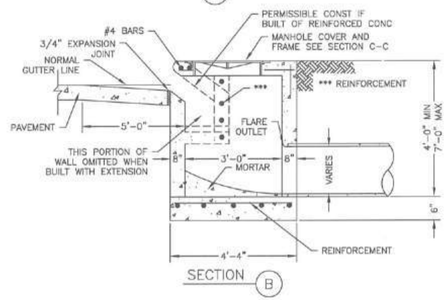
SECTION C



SECTION A



PLAN VIEW – CURB INLET



SECTION B

NOTES:

1. FOR TYPE "C-2A" INLETS PROVIDE A CENTER 8"X6" COLUMNS IN THE CURB LINE BETWEEN ALL EXTENSIONS.
2. WALLS TO BE 6" IF BUILT WITH REINFORCED CONCRETE.

STORM SEWER TYPE "C-1", "C-2" AND "C-2A" INLET
NTS

02632-07

PLAN

SECTION A

STORM SEWER TYPE "D" INLET
NTS

02632-08

PLAN

SECTION A

STORM SEWER TYPE "D-1" INLET
NTS

FIRM INFORMATION

ENGINEER'S SEAL

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

STORM SEWER
02632-06 THROUGH 08

APPROVED BY: CITY ENGINEER

APPROVED BY: DEPUTY DIRECTOR

APPROVED BY: DIRECTOR

EFFECTIVE DATE: JUL-01-2019

FOR CITY OF HOUSTON USE ONLY

SHEET NO.

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591

TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

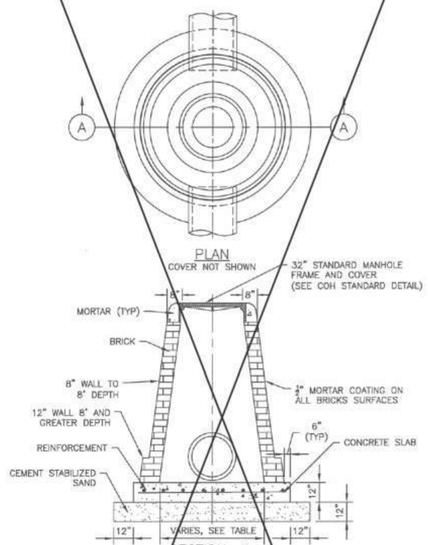
STORM SEWER DETAILS
COH STANDARDS

SHEET 4 OF 6

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 244 OF 278	

Asset IE
10/23/2025
...\STORM SEWER TYPE C, C-1, C-2, C-2A INLET DETAILS.dgn

02081-01



TABLE

SEWER SIZE VS MANHOLE SIZE

SEWER SIZE (INCHES)	MANHOLE BASE DIAMETER
42"	5'-0"
36"	4'-6"
30" AND LESS	4'-0"

STORM SEWER MANHOLE TYPE 'C'
FOR 42" DIAMETER RCP AND SMALLER
NTS

COH IS PHASING OUT BRICK. NEW DETAILS TO BE POSTED END OF 2019

REFER TO COH STANDARD DETAIL 02082-12 "STORM SEWER TYPE 'C' PRECAST ROUND MANHOLE"

02081-03

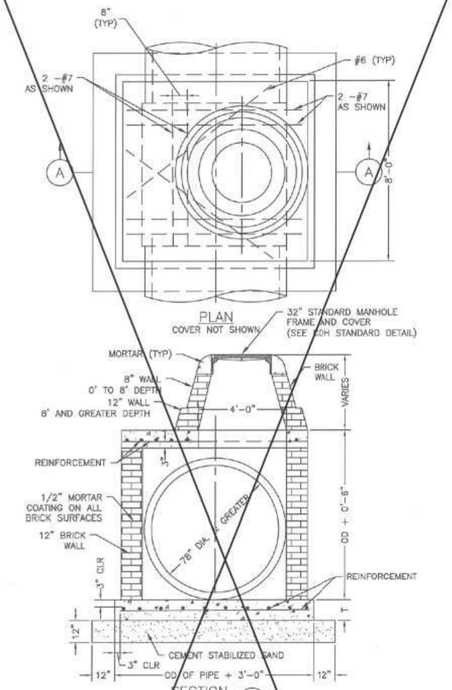


TABLE 1

PIPE DIAMETER VS SLAB THICKNESS

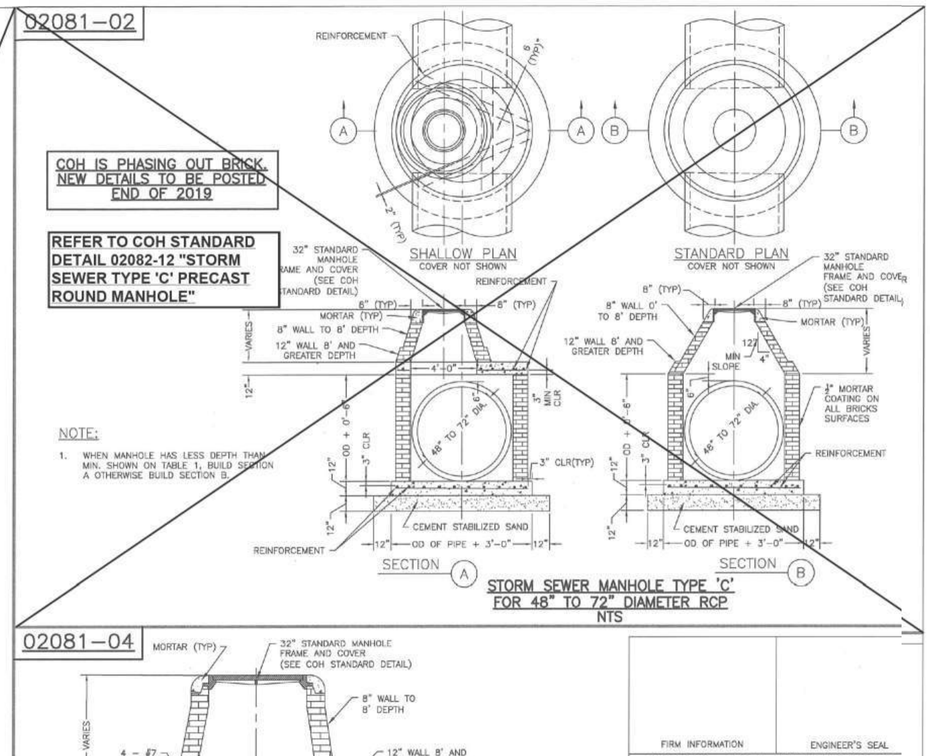
PIPE DIAMETER (INCHES)	SLAB THICKNESS T (INCHES)
78	12
84	12
90	13
96	14
102	14
108	15

STORM SEWER MANHOLE TYPE 'C'
FOR 78" DIAMETER RCP AND GREATER
NTS

COH IS PHASING OUT BRICK. NEW DETAILS TO BE POSTED END OF 2019

REFER TO COH STANDARD DETAIL 02082-13 "STORM SEWER PRECAST BOX MANHOLE"

02081-02



NOTE:

1. WHEN MANHOLE HAS LESS DEPTH THAN MIN. SHOWN ON TABLE 1, BUILD SECTION A OTHERWISE BUILD SECTION B.

STORM SEWER MANHOLE TYPE 'C'
FOR 48" TO 72" DIAMETER RCP
NTS

02081-04

NOTES:

1. FOR SMALLER BOX SEWER WIDTHS, WHERE IT IS NOT POSSIBLE TO EXTEND REINFORCING STEEL 2'-6" BEYOND THE OPENING, REINFORCING STEEL SHALL BE EXTENDED 3" TO THE EDGE OF THE WALL.
2. MANHOLE CAN BE PRECAST

TABLE

BOX WIDTH VS OPENING SIZE

BOX WIDTH (INCHES)	OPENING SIZE (INCHES)
48" AND LESS	36"
GREATER THAN 48"	48"

STORM SEWER MANHOLE TYPE 'C'
FOR PROPOSED CONCRETE BOX SEWER
NTS

FIRM INFORMATION

ENGINEER'S SEAL

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

STORM SEWER
02081-01 THROUGH 04

APPROVED BY: CITY ENGINEER

APPROVED BY: DEPUTY DIRECTOR

APPROVED BY: DIRECTOR

EFFECTIVE DATE: JUL-01-2019
FOR CITY OF HOUSTON USE ONLY

SHEET NO.

IDCUS
Planners | Engineers | Construction Managers
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Houston, Texas 77094
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TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

STORM SEWER DETAILS
COH STANDARDS

SHEET 5 OF 6

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 245 OF 278	

Asset E

10/27/2025
...\STORM SEWER TYPE C MANHOLE

...\STORM SEWER TYPE C MANHOLE.dgn

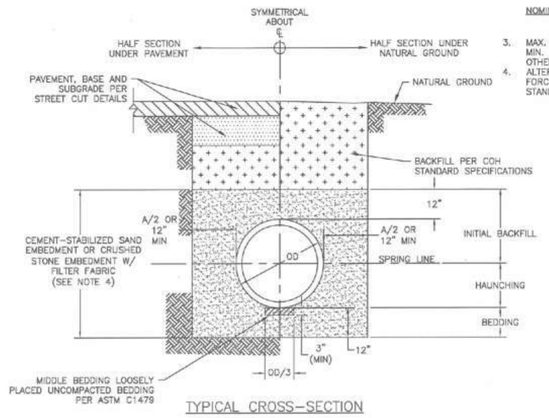
02317–03

NOTES:

1. THIS DETAIL MAY BE USED ONLY FOR DRY STABLE TRENCH CONDITIONS PER COH STANDARD. SEE COH STANDARD SPECIFICATION FOR REQUIREMENTS IN OTHER CONDITIONS.
2. MIN. TRENCH WIDTH SHALL BE PIPE OD PLUS AN ALLOWANCE "A" FOR THE NOMINAL PIPE SIZE:

NOMINAL PIPE SIZE	"A"
18" TO 30"	24"
OVER 30"	36"

3. MAX. TRENCH WIDTH SHALL BE NOT GREATER THAN MIN. TRENCH WIDTH PLUS 24 INCHES, UNLESS OTHERWISE NOTED.
4. ALTERNATIVE EMBEDMENT BACKFILL MATERIALS FOR FORCE MAINS MAY BE ALLOWED. SEE COH STANDARD SPECIFICATIONS.



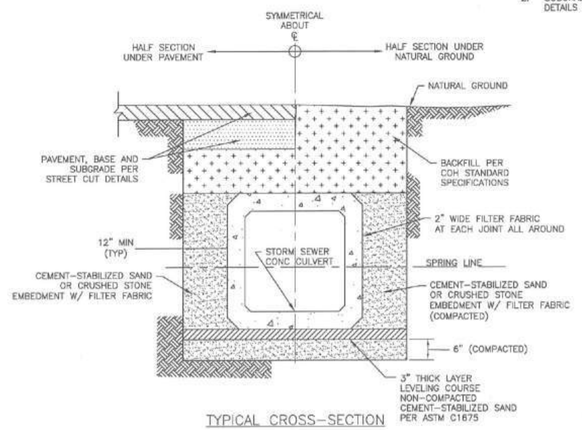
TYPICAL CROSS–SECTION

SANITARY OR STORM SEWER BEDDING AND BACKFILL FOR DRY STABLE TRENCH
NTS

02317–05

NOTES:

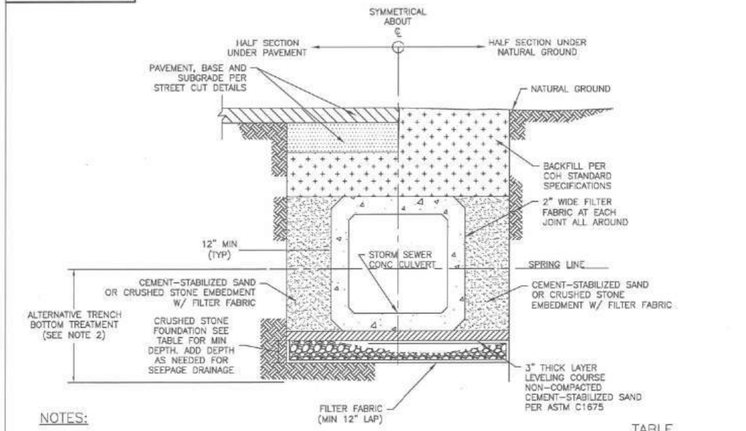
1. WHERE MULTIPLE BOX SEWER ARE USED IN THE SAME TRENCH, MIN. OUTSIDE TO OUTSIDE BOX SEWER SEPERATION SHALL BE 6".
2. SUBGRADE AND PAVEMENT FOR STREET CUT DETAILS – 02951.



TYPICAL CROSS–SECTION

PRECAST CONCRETE BOX STORM SEWER BEDDING AND BACKFILL FOR DRY STABLE TRENCH
NTS

02317–06



NOTES:

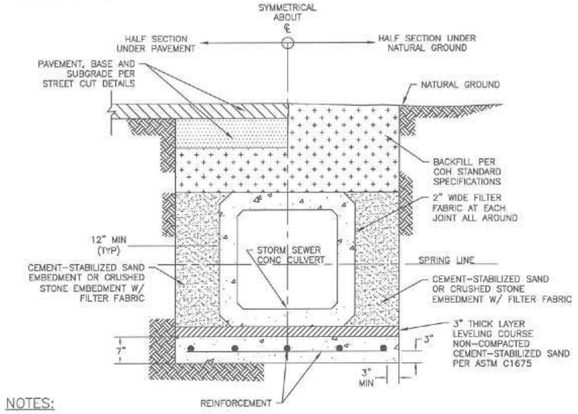
1. WHERE MULTIPLE BOX SEWER ARE USED IN THE SAME TRENCH, MIN. OUTSIDE TO OUTSIDE BOX SEWER SEPERATION SHALL BE 6".
2. ALTERNATIVE TRENCH BOTTOM TREATMENT MAY BE USED AS APPROVED BY THE CITY OF ENGINEERS AND AS PAID FOR IN THE PROPOSAL.

TABLE

CULVERT SIZE (FT)	FOUNDATION DEPTH(INCHES)
3' X 2' TO 6' X 6'	12
6' X 6' AND LARGER	18

PRECAST CONCRETE BOX STORM SEWER BEDDING AND BACKFILL FOR WET STABLE TRENCH
NTS

02317–07



NOTES:

1. WHERE MULTIPLE BOX SEWER ARE USED IN THE SAME TRENCH, MIN OUTSIDE TO OUTSIDE BOX SEWER SEPERATION SHALL BE 6".
2. REINFORCED CONCRETE SLAB PIPE BEDDING TO BE PLACED IN DRY TRENCH ONLY.
3. CONCRETE IN SLAB TO REACH MIN COMPRESSIVE STRENGTH OF 1000 PSI BASED ON MAX DESIGN BEFORE PIPE IS LAID.
4. PRECAST SEAL SLAB MAYBE USED AS APPROVED BY CITY ENGINEER.

PRECAST CONCRETE BOX STORM SEWER BEDDING AND BACKFILL WITH SEAL SLAB
NTS

FIRM INFORMATION | ENGINEER'S SEAL

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

STORM SEWER
02317–03 THROUGH 07

APPROVED BY: CITY ENGINEER | APPROVED BY: DEPUTY DIRECTOR

APPROVED BY: DIRECTOR

EFFECTIVE DATE: JUL-01-2019

FOR CITY OF HOUSTON USE ONLY

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15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591

TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

STORM SEWER DETAILS
COH STANDARDS

SHEET 6 OF 6

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 246 OF 278	

10/27/2025
...\STORM SEWER BEDDING AND BACKFILL.dgn
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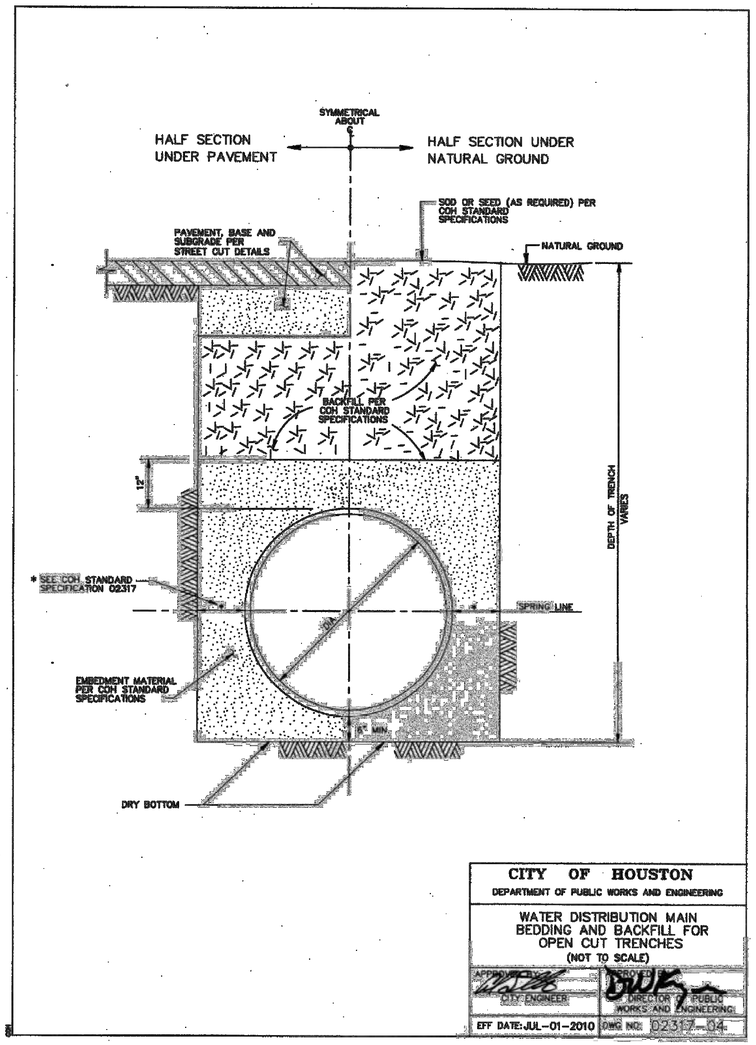
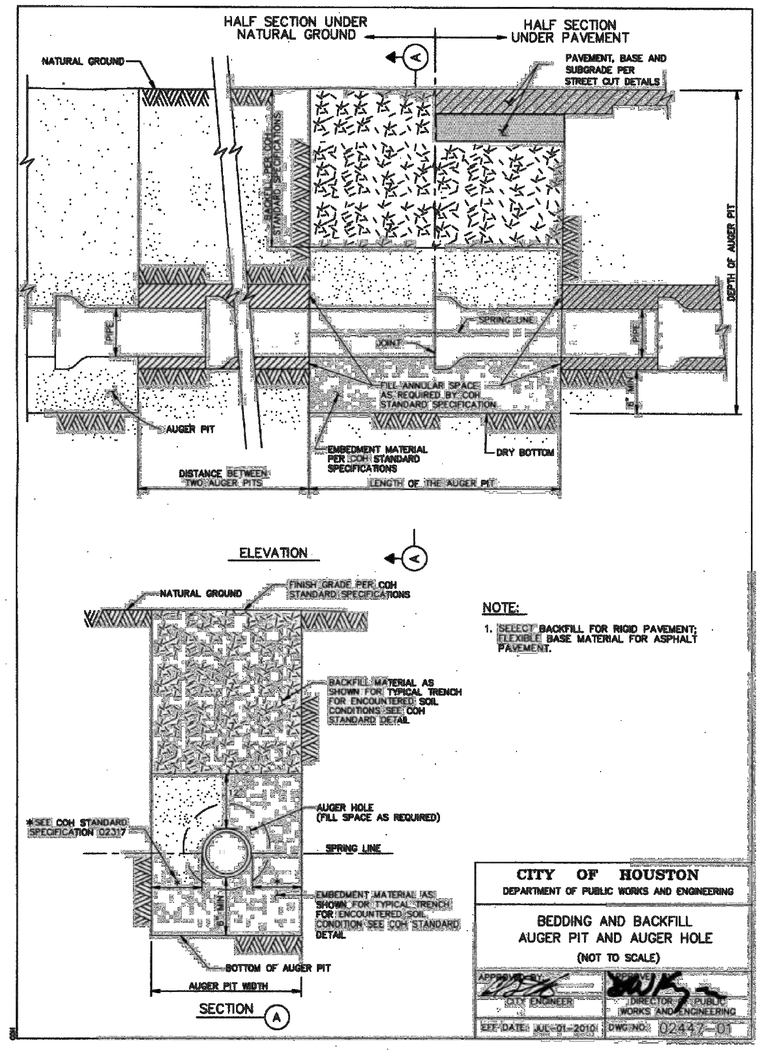
STORM SEWER BEDDING AND BACKFILL.dgn



CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

WATER DISTRIBUTION MAIN
BEDDING AND BACKFILL FOR
OPEN CUT TRENCHES
(NOT TO SCALE)

APPROVED BY: CITY ENGINEER	APPROVED: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: JUL-01-2010	DWG NO: 02317-04



NOTE:
1. SELECT BACKFILL FOR RIGID PAVEMENT; FLEXIBLE BASE MATERIAL FOR ASPHALT PAVEMENT.

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

BEDDING AND BACKFILL
AUGER PIT AND AUGER HOLE
(NOT TO SCALE)

APPROVED BY: CITY ENGINEER	APPROVED: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: JUL-01-2010	DWG NO: 02447-01

BENCHMARK:
COH MONUMENT 5160-1301(BRASS DSK) LOCATED IN THE NORTH CONCRETE MEDIAN NOSE AT THE INTERSECT. OF MANGUM RD. & W. 34TH ST. KEY MAP 451-R.
ELEV.=70.59 (NAVD 88,CORS 2011 ADJUSTMENT)

COH MONUMENT 5160-8306(BRASS DSK) LOCATED AT THE SOUTH SIDE OF BRIDGE AT WATONGA BLVD & BRICKHOUSE GULLY. KEY MAP 451-M.
ELEV.=62.17 (NAVD 88,CORS 2011 ADJUSTMENT)

COH MONUMENT 5160-8510(BRASS DSK) LOCATED IN THE SOUTH SIDE OF BRIDGE AT W. 43RD ST & WHITE OAK BAYOU. KEY MAP 451-M.
ELEV.=69.81'(NAVD 88,CORS 2011 ADJUSTMENT)

TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT AT 713-207-2222

PRIVATE UTLITY LINES SHOWN
AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET R.O.W. OR EASEMENTS CALL THE LONE STAR NOTIFICATION 713-223-4567.

Date:
CenterPoint Energy/Electric Facilities
Signature indicates underground electric lines are properly shown. No approval for construction is given.

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

Date:
CenterPoint Energy/Gas Facilities/ENTEX Incorporated
(Gas service lines are not shown)

CABLE COMPANY

MBCO
ENGINEERING + SURVEYING
1505 Highway 6 South, Suite 180
Houston, Texas 77079
281.760.1656
MBCOEngineering.com
SBE/WBE/DBE/HUB
TBPELS Engineering Firm No. F-16850
Land Surveying Firm No. 10194810

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THIS DOCUMENT IS INCOMPLETE AND IS NOT INTENDED TO BE USED FOR BIDDING OR CONSTRUCTION PURPOSES.
ENGINEER: STEVE E. STACY
P.E. SERIAL NO.: 80294
DATE: August 1, 2025

SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TURKEY GULLY DRAINAGE AND PAVING

COH STANDARD WATERLINE DETAILS 1

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-3	
DRAWING SCALE	
-	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO 247 OF 278	

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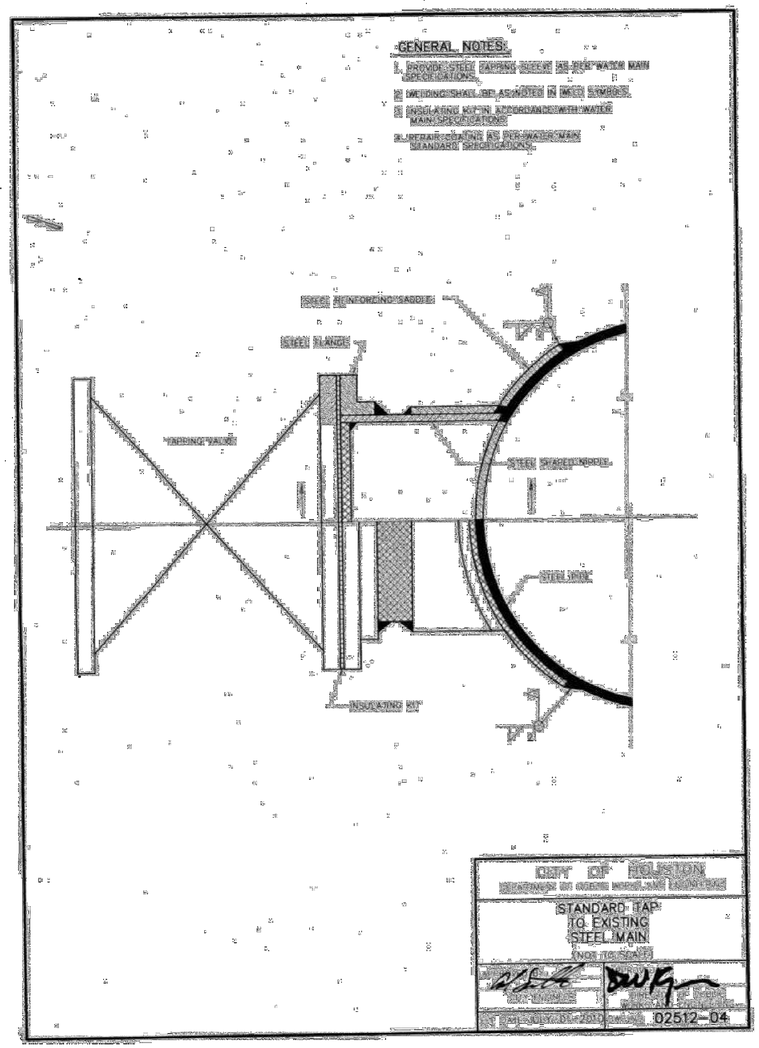

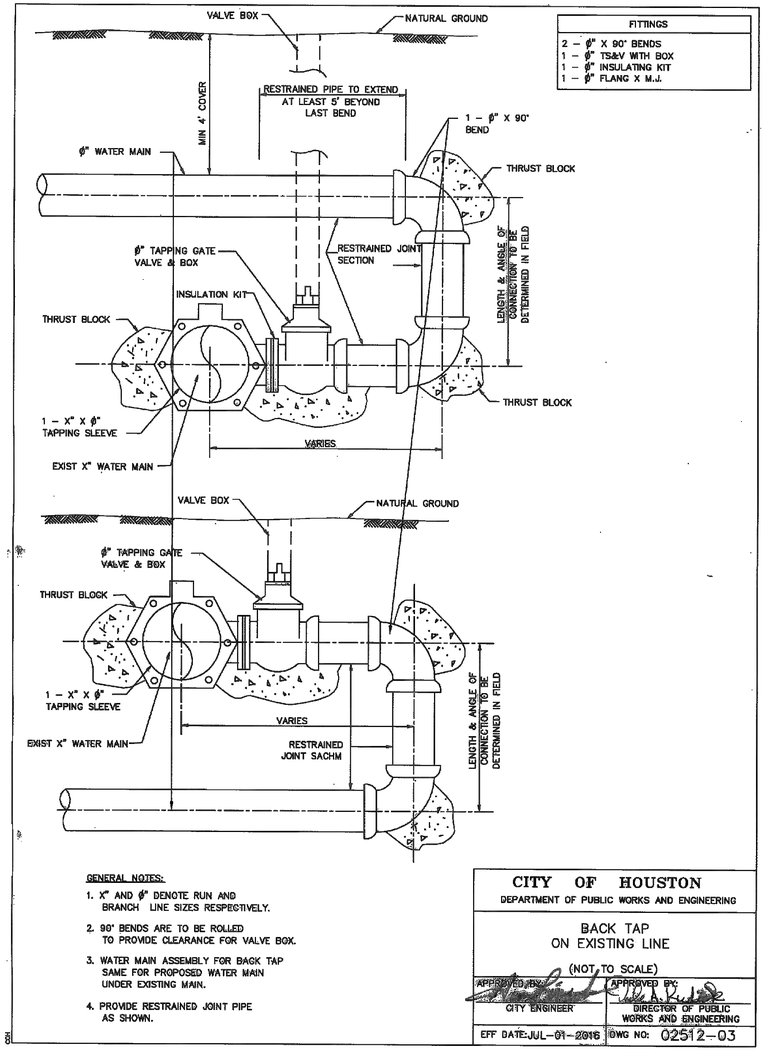

BENCHMARK:
COH MONUMENT 5160-1301(BRASS DSK) LOCATED IN THE NORTH CONCRETE MEDIAN NOSE AT THE INTERSECT. OF MANGUM RD. & W. 34TH ST. KEY MAP 451-R.
ELEV.=70.59 (NAVD 88,CORS 2011 ADJUSTMENT)

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ELEV.=62.17 (NAVD 88,CORS 2011 ADJUSTMENT)

COH MONUMENT 5160-8510(BRASS DSK) LOCATED IN THE SOUTH SIDE OF BRIDGE AT W. 43RD ST & WHITE OAK BAYOU. KEY MAP 451-M.
ELEV.=69.81'(NAVD 88,CORS 2011 ADJUSTMENT)

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Date:
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Date:
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(Gas service lines are not shown)

CABLE COMPANY

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MBCOEngineering.com
SBE/WBE/DBE/HUB
TBPELS Engineering Firm No. F-16850
Land Surveying Firm No. 10194810

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ENGINEER: STEVE E. STACY
P.E. SERIAL NO.: 92094
DATE: August 1, 2025

SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TURKEY GULLY DRAINAGE AND PAVING

COH STANDARD WATERLINE DETAILS 2

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-3	
DRAWING SCALE	
-	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO.248 OF 278	

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$DATE$
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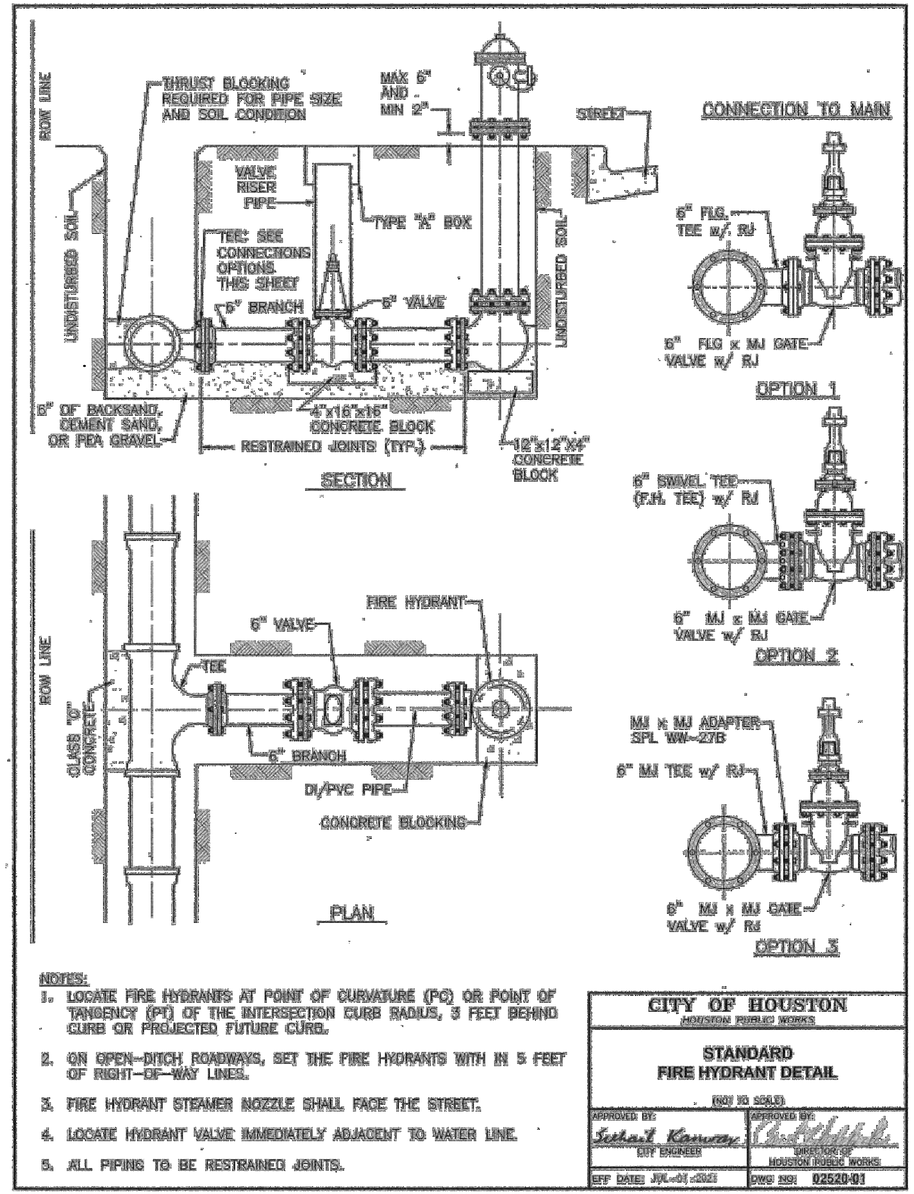


NOTES:

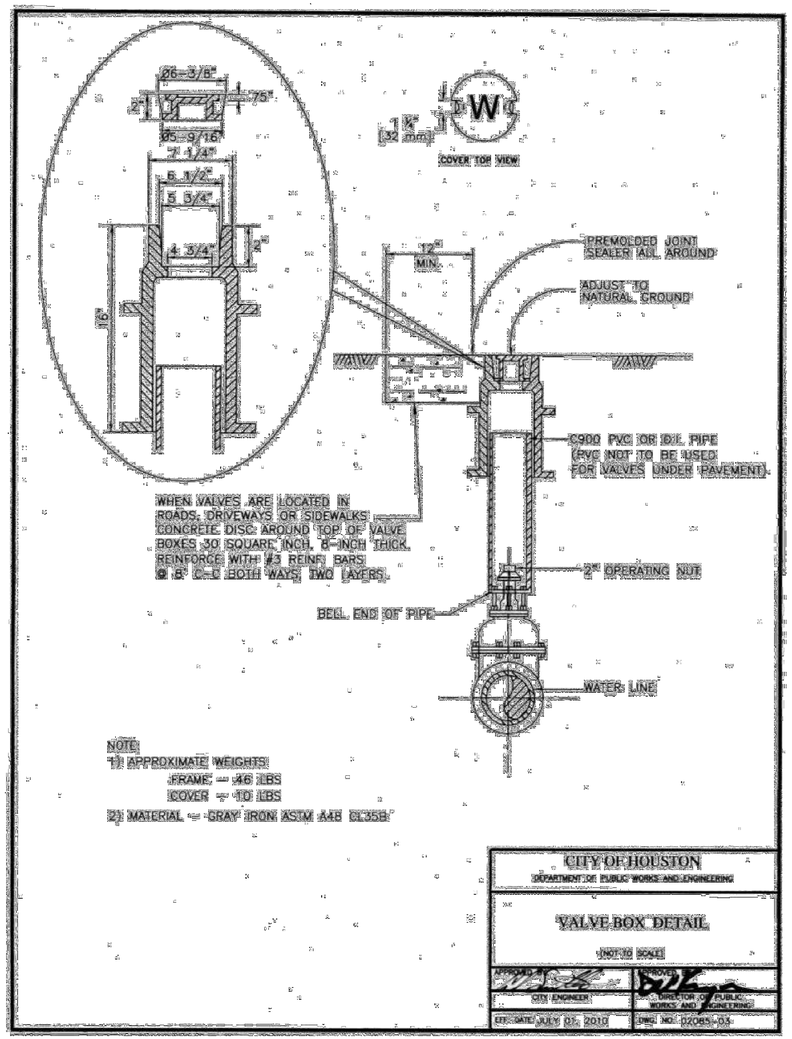
1. LOCATE FIRE HYDRANTS AT POINT OF CURVATURE (PC) OR POINT OF TANGENCY (PT) OF THE INTERSECTION CURB RADIUS, 3 FEET BEHIND CURB OR PROJECTED FUTURE CURB.
2. ON OPEN-DITCH ROADWAYS, SET THE FIRE HYDRANTS WITH IN 5 FEET OF RIGHT-OF-WAY LINES.
3. FIRE HYDRANT STEAMER NOZZLE SHALL FACE THE STREET.
4. LOCATE HYDRANT VALVE IMMEDIATELY ADJACENT TO WATER LINE.
5. ALL PIPING TO BE RESTRAINED JOINTS.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

STANDARD FIRE HYDRANT DETAIL

(NOT TO SCALE)

APPROVED BY:	APPROVED BY:
CITY ENGINEER	DIRECTOR OF HOUSTON PUBLIC WORKS
EFF DATE: JUL-01-2021	DWG NO: 02520-01



NOTE:
1) APPROXIMATE WEIGHTS:
FRAME = 46 LBS
COVER = 10 LBS
2) MATERIAL = GRAY IRON ASTM A48 CL35B

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

VALVE BOX DETAIL

(NOT TO SCALE)

APPROVED BY:	APPROVED BY:
CITY ENGINEER	DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF. DATE: JULY 01, 2010	DWG. NO: 02085-03

BENCHMARK:
COH MONUMENT 5160-1301(BRASS DSK) LOCATED IN THE NORTH CONCRETE MEDIAN NOSE AT THE INTERSECT. OF MANGUM RD. & W. 34TH ST. KEY MAP 451-R.
ELEV.=70.59 (NAVD 88,CORS 2011 ADJUSTMENT)

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ELEV.=62.17 (NAVD 88,CORS 2011 ADJUSTMENT)

COH MONUMENT 5160-8510(BRASS DSK) LOCATED IN THE SOUTH SIDE OF BRIDGE AT W. 43RD ST & WHITE OAK BAYOU. KEY MAP 451-M.
ELEV.=69.81'(NAVD 88,CORS 2011 ADJUSTMENT)

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Date:
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ENGINEER: STEVE E. STACY
P.E. SERIAL NO.: 80294
DATE: August 1, 2025

SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TURKEY GULLY DRAINAGE AND PAVING

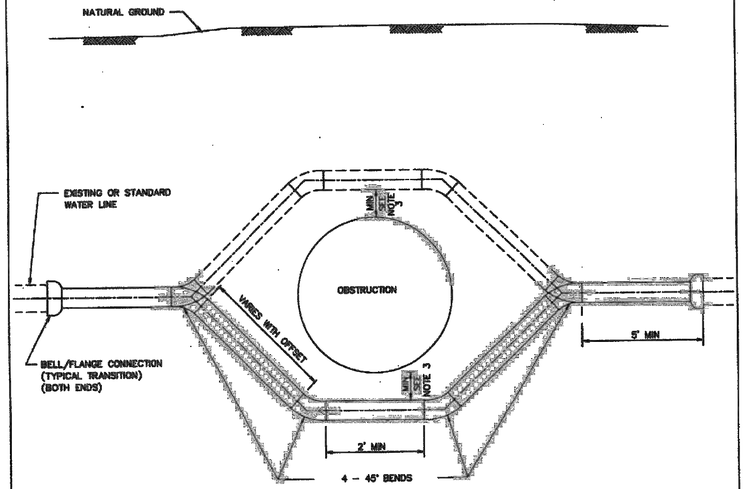
COH STANDARD WATERLINE DETAILS 3

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-3	
DRAWING SCALE	
-	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO.249 OF 278	

$USER$
$DATE$
$FILEABBREV$
$FILES$

NOTE:

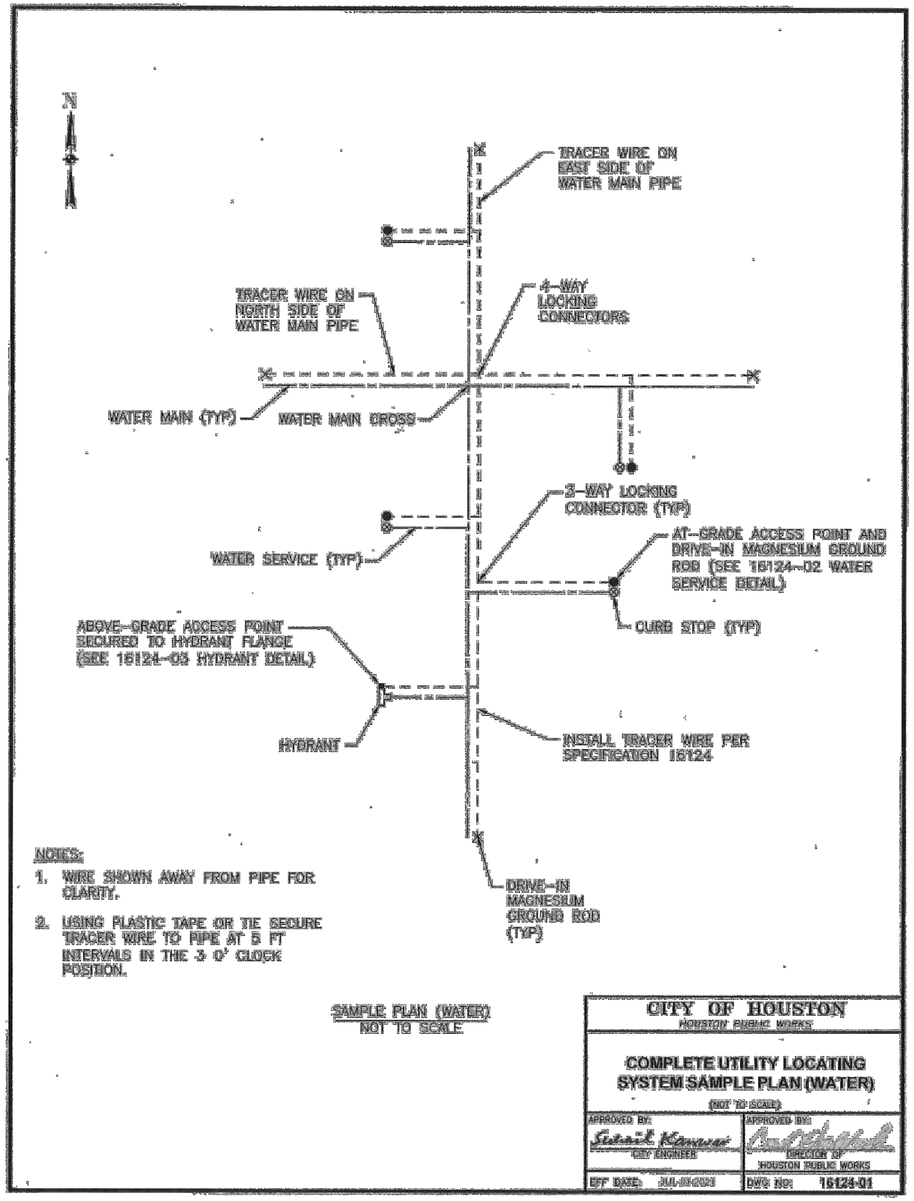
1. MATERIALS AND COATINGS TO BE IN ACCORDANCE WITH WATER LINE STANDARD SPECIFICATIONS.
2. RESTRAIN EXISTING PIPING BEYOND STEEL SECTION AS REQUIRED TO PREVENT MOVEMENT.
3. AS PER DESIGN GUIDELINE.



PIPE OFFSET ALTERNATES

1. DUCTILE IRON PIPE PRESSURE 250 PSI WITH APPROVED RESTRAINED JOINTS.
2. PVC PIPE WITH INTEGRAL RESTRAINED JOINT SYSTEM, OR DUCTILE – IRON RESTRIMED JOINT FITTINGS, EPOXY LINED AND COATED. USE 250 PSI AWWA C900 DR 14 FOR PVC RESTRAINED JOINTS.
3. PVC NOT ALLOWED FOR GREATER THAN 20 FT OF COVER OR FOR DIAMETER LARGER THAN 20 IN.
4. USE ONLY DUCTILE IRON AND PVC PRODUCTS LISTED ON OCE DIVISION APPROVED PRODUCTS LIST AND IN ACCORDANCE WITH CITY STANDARD SPECIFICATIONS.

CITY OF HOUSTON DEPARTMENT OF PUBLIC WORKS AND ENGINEERING	
TYPICAL STEEL PIPE OFFSET SECTION FOR WATER LINES (NOT TO SCALE)	
APPROVED BY: CITY ENGINEER	APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING
EFF DATE: JULY-01-2010	DWG NO: 02511-01



NOTES:

1. WIRE SHOWN AWAY FROM PIPE FOR CLARITY.
2. USING PLASTIC TAPE OR TIE SECURE TRACER WIRE TO PIPE AT 5 FT INTERVALS IN THE 3 O' CLOCK POSITION.

SAMPLE PLAN (WATER)
NOT TO SCALE

CITY OF HOUSTON HOUSTON PUBLIC WORKS	
COMPLETE UTILITY LOCATING SYSTEM SAMPLE PLAN (WATER) (NOT TO SCALE)	
APPROVED BY: CITY ENGINEER	APPROVED BY: DIRECTOR OF HOUSTON PUBLIC WORKS
EFF DATE: JUL-01-2021	DWG NO: 16124-01

BENCHMARK:
COH MONUMENT 5160-1301(BRASS DSK) LOCATED IN THE NORTH CONCRETE MEDIAN NOSE AT THE INTERSECT. OF MANGUM RD. & W. 34TH ST. KEY MAP 451-R.
ELEV.=70.59 (NAVD 88,CORS 2011 ADJUSTMENT)

COH MONUMENT 5160-8306(BRASS DSK) LOCATED AT THE SOUTH SIDE OF BRIDGE AT WATONGA BLVD & BRICKHOUSE GULLY. KEY MAP 451-M.
ELEV.=62.17 (NAVD 88,CORS 2011 ADJUSTMENT)

COH MONUMENT 5160-8510(BRASS DSK) LOCATED IN THE SOUTH SIDE OF BRIDGE AT W. 43RD ST & WHITE OAK BAYOU. KEY MAP 451-M.
ELEV.=69.81'(NAVD 88,CORS 2011 ADJUSTMENT)

TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT AT 713-207-2222

PRIVATE UTLITY LINES SHOWN

AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET R.O.W. OR EASEMENTS CALL THE LONE STAR NOTIFICATION 713-223-4567.

Date:

CenterPoint Energy/Electric Facilities
Signature indicates underground electric lines are properly shown. No approval for construction is given.

Date:

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

Date:

CenterPoint Energy/Gas Facilities/ENTEX Incorporated
(Gas service lines are not shown)

CABLE COMPANY

MBCO
ENGINEERING + SURVEYING
1505 Highway 6 South, Suite 180
Houston, Texas 77079
281.760.1656
MBCOEngineering.com
SBE/WBE/DBE/HUB
TBPELS Engineering Firm No. F-16850
Land Surveying Firm No. 10194810

FOR INTERIM REVIEW ONLY

THIS DOCUMENT IS INCOMPLETE AND IS NOT INTENDED TO BE USED FOR BIDDING OR CONSTRUCTION PURPOSES.

ENGINEER: STEVE E. STACY
P.E. SERIAL NO.: 92094
DATE: August 1, 2025

SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TURKEY GULLY DRAINAGE AND PAVING

COH STANDARD WATERLINE DETAILS 4

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-3	
DRAWING SCALE	
-	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO.250 OF 278	

$USER$
$DATE$
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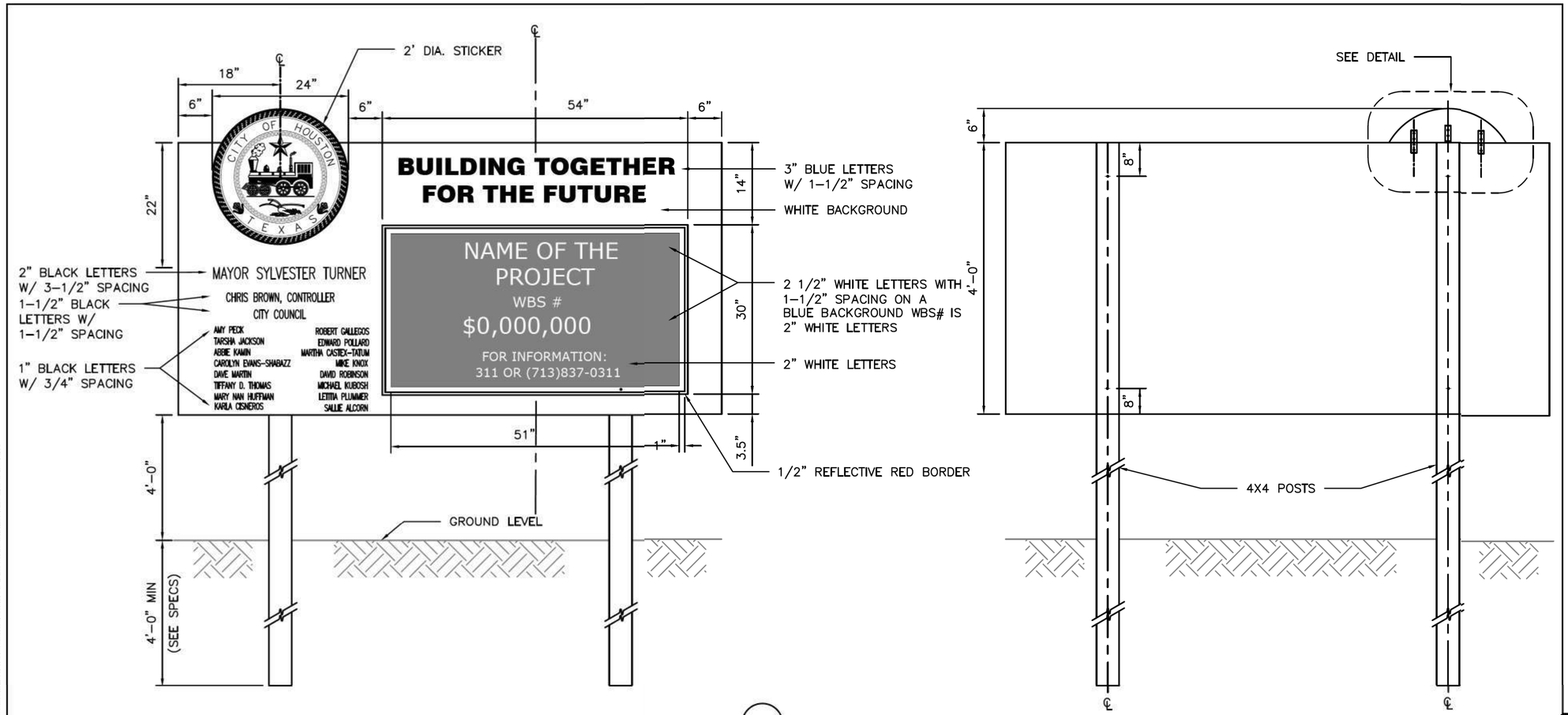
DocuSign Envelope ID: CB71C116-B716-4899-A5EE-0D2F2CC55AF6



DISCLAIMER:
THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. THE DESIGN REQUIREMENTS ON THIS STANDARD DO NOT PURPORT TO ADDRESS ALL OF THE SAFETY CONCERNS ASSOCIATED WITH THEIR USE. THE ENGINEER OF RECORD (EOR) IS TO REVIEW THESE DESIGN REQUIREMENTS AND BY AUTHORIZING THEIR USE ACCEPTS RESPONSIBILITY FOR THEIR APPLICABILITY, ADEQUACY AND SAFETY. NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER. THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

CONSTRUCTION SIGN

(SCALE: NOT TO SCALE)

APPROVED BY:

DocuSigned by: Suhail Kanwar 9EF8B0C641F5478... CITY ENGINEER	DocuSigned by: Carol Haddock A93C410B7B3453... DIRECTOR OF HPW
EFF DATE: NOV–27–2023	DWG NO: 01580–01

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

THESE PLANS ARE PRELIMINARY AND ARE BEING ISSUED FOR REVIEW BY PUBLIC AGENCIES AND OTHER PRELIMINARY PURPOSES. WHEN ISSUED IN FINAL FORM THEY WILL BE SEALED, SIGNED, AND DATED BY THE RESPONSIBLE ENGINEER.

RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

CONSTRUCTION SIGN DETAIL

SHEET 1 OF 1

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NTS	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 251 OF 278	

10/23/2025
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TUR_TCSTD_01.dgn

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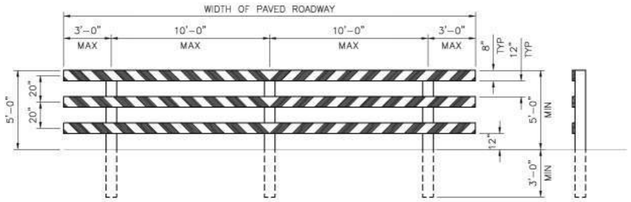
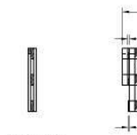
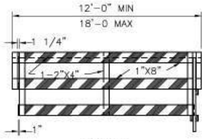


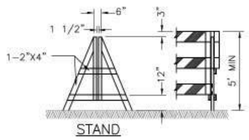
TYPE III BARRICADE
FOR END OF ROAD

FOR TYPE III BARRICADE FOR END OF ROAD, THE THREE (3) RAILS SHALL BE REFLECTIVE RED AND RELFLECTIVE WHITE STRIPES ON SIDE FACING TRAFFIC


SECTION



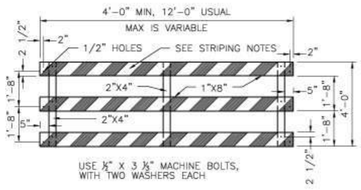
PANEL



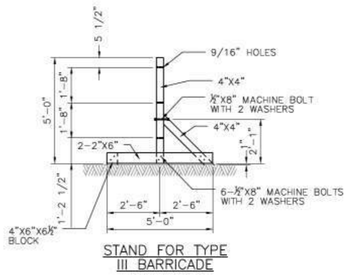
STAND

ASSEMBLY

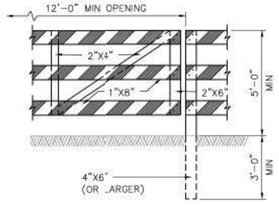
DEMOUNTABLE TYPE III BARRICADE



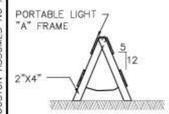
PANEL FOR TYPE
III BARRICADE



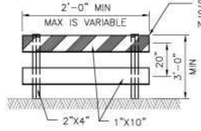
STAND FOR TYPE
III BARRICADE



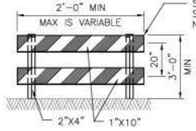
GATE FOR TYPE III
BARRICADE



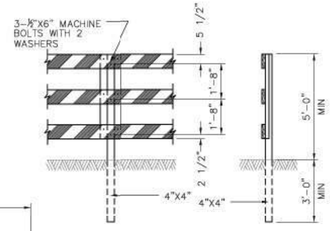
"A" FRAME



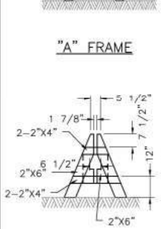
TYPE I



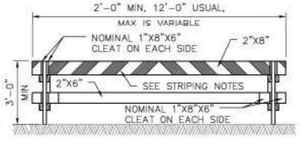
TYPE II



POST FOR TYPE III
BARRICADE



DEMOUNTABLE



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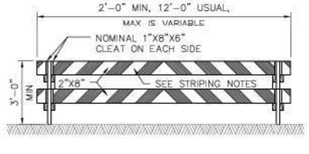

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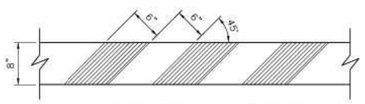
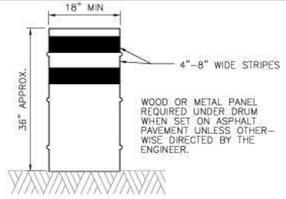


STRIPING FOR BARRICADE

BARRICADE NOTES:

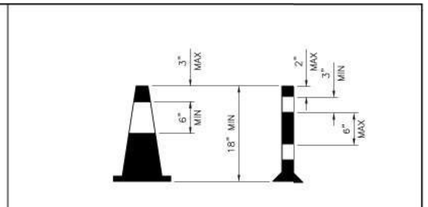
1. THE MOST RECENT EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, AND IT'S REVISIONS, SHALL GOVERN THE CONSTRUCTION AND USE OF ALL ITEMS HEREIN DESCRIBED.
2. CHANNELIZATION DEVICES OTHER THAN BARRICADES SHOULD NORMALLY BE USED FOR CHANNELIZATION PURPOSES.
3. BARRICADES SHOULD NORMALLY BE PLACED PERPENDICULAR TO THE TRAFFIC FLOW. OTHER CHANNELIZING DEVICES, SUCH AS DRUMS, VERTICAL PANELS OR PORTABLE BARRIERS, SHOULD BE USED WHERE NEEDED TO SEPARATE TRAFFIC FROM THE WORK AREA. IN ALL CASES, THE BARRICADES SHOULD BE SO LOCATED AS TO MOST ADVANTAGEOUSLY WARN AND DIRECT TRAFFIC.
4. BARRICADES MAY BE DESIGNED AND CONSTRUCTED FROM WOOD OR ANY OTHER SUITABLE MATERIAL APPROVED BY THE TMUTCD. THE CONSTRUCTION DETAILS SHOWN HEREON ARE TYPICAL AND ARE SUGGESTED DETAILS FOR WOOD SUPPORT SYSTEMS FOR BARRICADES. THE DETAILS OF RAIL WIDTH AND STRIPING, NUMBER AND SPACING OF RAILS, MINIMUM LENGTH AND HEIGHT (ABOVE PAVEMENT) OF RAILS MUST BE ADHERED TO WHEN ALTERNATE DESIGNS ARE USED.
5. BARRICADES ARE TO BE CONSTRUCTED OF CLEAN SOUND MATERIAL. ALL SURFACES ABOVE GROUND, WHICH ARE NOT STRIPED, SHALL BE WHITE EXCEPT THE UNPAINTED GALVANIZED METAL OR ALUMINUM COMPONENTS MAY BE USED. COMPONENTS MADE OF LUMBER SHALL BE PAINTED WITH A MINIMUM OF TWO COATS OF AN APPROVED BRAND OF WHITE PAINT TO SECURE THOROUGH COVERAGE AND A UNIFORM WHITE COLOR.
6. THE REFLECTORIZED WHITE AND REFLECTORIZED ORANGE (REFLECTORIZED RED) STRIPES FOR BARRICADES, DRUMS AND VERTICAL PANELS SHALL BE CONSTRUCTED OF HIGH INTESITY SHEETING AND SHALL BE MAINTAINED TO MEET THE APPEARANCE, COLOR AND REFLECTIVITY REQUIREMENTS SET BY DOTT.
7. THE CONTRACTOR SHALL MAINTAIN EACH BARRICADE IN A CLEAN AND GOOD CONDITION.
8. BARRICADES SHALL BE REMOVED UPON COMPLETION OF THE WORK AND/OR THE ELIMINATION OF THE HAZARD ON ANY SECTION.

1. FOR ALL TYPES OF BARRICADES WITH RAILS LESS THAN 3'-0" LONG, STRIPES 4" WIDE SHALL BE USED. IDENTIFICATION MARKINGS MAY BE SHOWN ONLY ON BACK SIDE OF BARRICADE RAILS.
2. STRIPING SHOULD COVER THE FULL WIDTH OF THE RAIL. STRIPING OF RAILS, PANELS, ETC. SHOULD SLOPE DOWNWARD AT AN ANGLE OF 45° DEGREES IN DIRECTIONS TRAFFIC IS TO PASS.
3. WHERE A BARRICADE EXTENDS ENTIRELY ACROSS A ROADWAY, IT IS DESIRABLE THAT THE STRIPES SLOPE DOWNWARD IN THE DIRECTION TOWARD WHICH TRAFFIC MUST TURN IN DETOURING. WHEN BOTH RIGHT AND LEFT TURNS ARE PROVIDED FOR, THE CHEVRON STRIPING MAY SLOPE DOWNWARD IN BOTH DIRECTIONS FROM THE CENTER OF THE BARRICADE.



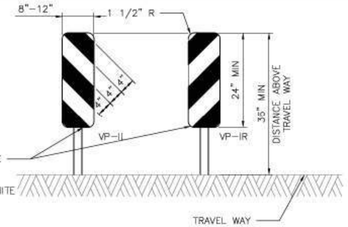
DRUMS

1. DRUMS, SET ON END, AND USED FOR TRAFFIC WARNING OR CHANNELIZATION SHALL BE APPROX 36" IN HEIGHT AND A MIN OF 18" IN DIAMETER. THE CONTRACTOR, AT HIS OPTION, MAY USE DRUMS MADE FROM STEEL BARRELS OR BLACK POLYETHYLENE PLASTIC DRUM LINERS WEIGHING APPROX EIGHT POUNDS EACH. THE MARKINGS ON DRUMS SHALL BE HORIZONTAL, CIRCUMFERENTIAL, REFLECTORIZED ORANGE AND REFLECTORIZED WHITE STRIPES, 4 TO 8 INCHES WIDE. THE FIRST REFLECTORIZED STRIPE SHOULD START WITHIN TWO (2) INCHES OF THE TOP OF THE DRUM. THERE SHALL BE AT LEAST TWO ORANGE AND TWO WHITE STRIPES ON EACH DRUM. IF THERE ARE NON-REFLECTORIZED SPACES BETWEEN THE HORIZONTAL ORANGE AND WHITE STRIPES, THEY SHALL BE NO MORE THAN 2 INCHES WIDE. METAL DRUMS SHALL BE PAINTED BLACK OR ORANGE BEFORE REFLECTORIZED STRIPES ARE ADDED. ALL DRUMS ON PROJECT WILL BE THE SAME COLOR. WHEN DRUMS ARE PLACED IN THE ROADWAY, APPROPIATE WARNING SIGNS SHOULD BE USED. DURING HOURS OF DARKNESS, A FLASHING WARNING LIGHT SHOULD BE PLACED ON DRUMS USED SINGLY AS A WARNING DEVICE. STEADY BURN ELECTRIC LIGHTS OR DELINEATORS SHOULD BE PLACED ON DRUMS USED IN SERIES FOR TRAFFIC CHANNELIZATION. DRUMS SHALL BE WEIGHTED WITH SAND TO THE EXTENT INDICATED IN THE PLANS.
2. CWI-8 CHEVRON SIGNS, CWI-6A ARROW SIGNS OR VP-1 VERTICAL PANELS MOUNTED ABOVE DRUMS MAY BE USED AS SUPPLEMENTS TO DRUM DELINEATION.



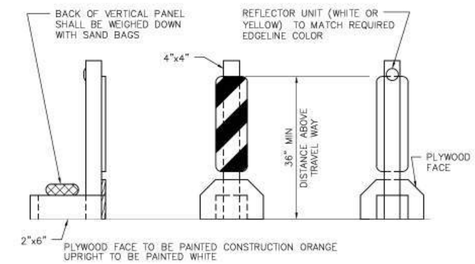
CONES

1. TRAFFIC CONES AND TUBULAR MARKERS SHALL BE A MIN OF 18" INCHES IN HEIGHT WITH A BROADENED BASE AND MAY BE MADE OF VARIOUS MATERIALS TO WITHSTAND IMPACT WITHOUT DAMAGE TO THEMSELVES OR TO VEHICLES. LARGER SIZES SHOULD BE USED ON FREEWAYS AND OTHER ROADWAYS WHERE SPEED ARE RELATIVELY HIGH OR WHERE EVER MORE CONSPICUOUS GUIDANCE IS NEEDED. ORANGE SHALL BE THE PREDOMINANT COLOR ON CONES AND TUBULAR MARKERS. THEY SHOULD BE KEPT CLEAN AND BRIGHT FOR MAX TARGET VALUE. FOR NIGHT TIME USE THEY SHALL BE RELECTORIZED OR EQUIPPED WITH LIGHTING DEVICES FOR MAX VISIBILITY. REFLECTORIZED MATERIAL SHALL HAVE A SMOOTH, SEALED OUTER SURFACE WHICH WILL DISPLAY THE SAME APPROX COLOR DAY AND NIGHT.
2. REFLECTORIZATION OF TUBULAR MARKERS SHALL BE A MIN OF TWO THREE-INCH BANDS PLACED A MAX OF 3" FROM THE TOP WITH A MAX OF 6" BETWEEN THE BANDS. REFLECTORIZATION OF CONES SHALL BE PROVIDED BY A MIN 6" BAND PLACED A MAX OF 3" FROM THE TOP.
3. CONES OR TUBULAR MARKERS ARE GENERALLY ONLY SUITABLE FOR TEMPORARY USAGE (UP TO 8 HOURS) WITH OTHER CHANNELIZATION DEVICES SUCH AS VERTICAL PANELS OR BARRICADES PREFERRED FOR LONGER TERM USAGE. CARE SHOULD BE TAKEN TO INSURE THAT THEY REMAIN IN THEIR PROPER LOCATION AND IN AN UPRIGHT POSITION.



VERTICAL PANELS (VP)

VERTICAL PANELS ARE NORMALLY USED AS CHANNELIZING DEVICES TO INDICATE TANGENT OR NEARLY TANGENT ROADWAY ALIGNMENT WHERE GOOD TARGET VALUE OF A DEVICE IS NEEDED IN DAYTIME AS WELL AS THE NIGHTTIME. IN ADDITION, VERTICAL PANELS SHOULD BE USED AT THE EDGE OF SHOULDER DROP-OFFS AND OTHER SUCH AREAS AS LANE TRANSITIONS WHERE POSITIVE DAY AND NIGHT DELINEATION MAY BE REQUIRED. VERTICAL PANELS SHOULD BE MOUNTED BACK TO BACK IF USED AT THE EDGE OF CUTS ADJACENT TO TWO-WAY TWO LANE ROADWAYS. STRIPES SHOULD ALWAYS SLOPE DOWNWARD TOWARD THE TRAVELED WAY.



TYPICAL PORTABLE VERTICAL PANEL
OR DELINEATOR

OTHER SIMILAR SUPPORTS MAY BE USED WHEN APPROVED BY TMUTCD AND DIRECTED BY THE CITY OF HOUSTON.

APPROVED BY:	APPROVED BY:
DocuSigned by: Suhail Kanawar	DocuSigned by: KHUNG NGUYEN
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY: DocuSigned by: Carl Haddock	
DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV-27-2023	DWG NO: 01555-14

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

BARRICADE AND
CHANNELIZING DEVICES

	FOR CITY OF HOUSTON USE ONLY
DRAWING SCALE	
NOT TO SCALE	

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825
SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

TRAFFIC CONTROL PLAN
BARRICADE STANDARD

SHEET 1 OF 1

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NTS	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 252 OF 278	

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Asset E

10/23/2025
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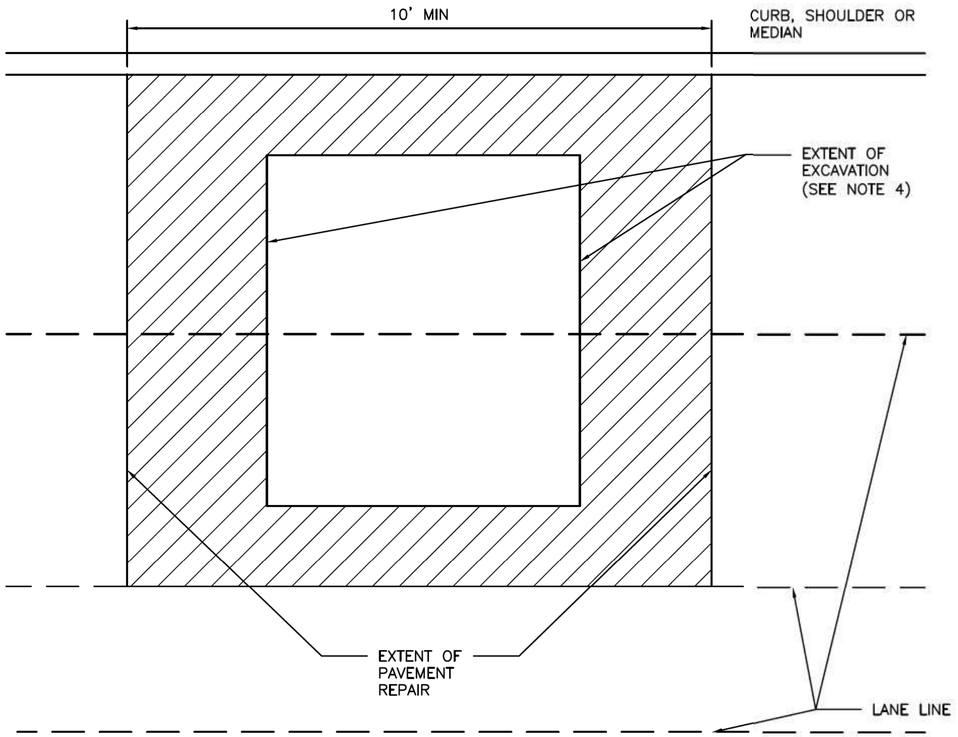

NOTES:

1. EXTENT OF PAVEMENT REPAIR SHALL BE PERPENDICULAR AND PARALLEL TO TRAVEL WAY.
2. FLEXIBLE BASE: REPLACE BASE TO SAME THICKNESS PLUS TWO INCHES (2") FOR EXTENT OF EXCAVATION. USE APPROVED BASE MATERIAL TYPE.*
3. SURFACE COURSE:
   - 3.1. WIDTH: SURFACE MILL AND OVERLAY FULL WIDTH OF LANE(S) TO NEAREST LANE DIVIDER BEYOND EDGE OF EXCAVATION.
   - 3.2. LENGTH: MINIMUM LENGTH OF SURFACE MILL ALONG TRAVEL WAY IS 10'.
   - 3.3. REPLACE PAVEMENT MARKINGS IN ACCORDANCE WITH CITY OF HOUSTON STANDARD SPECIFICATIONS 02764–RAISED PAVEMENT MARKERS AND 02767–THERMOPLASTIC PAVEMENT MARKINGS.
4. EXTENT OF EXCAVATION INCLUDES 18" OVER CUT AS SHOWN ON STANDARD DETAIL 02951–04 PAVEMENT REPAIR DETAIL FOR STREET CUTS (FLEX–BASE PAVEMENT AND CONCRETE PAVEMENT).
5. ADDITIONAL REQUIREMENTS FOR ASPHALT OVERLAY ON CONCRETE PAVEMENT:
   - 5.1. REPLACE CONCRETE FOR EXTENT OF EXCAVATION. REPLACE TO SAME THICKNESS PLUS TWO INCHES (2").
   - 5.2. WIDTH:
     - 5.2.1. IF EXCAVATION EXTENDS MORE THAN HALF OF A LANE, REPLACE ENTIRE LANE OF CONCRETE. OTHERWISE USE STANDARD DETAIL 02951–04 THROUGH 05.
   - 5.3. SAW CUT AND EXPOSE 15" OF REINFORCING STEEL AROUND EDGE OF CONCRETE REPLACEMENT. IF NO REINFORCING STEEL EXISTS, USE HORIZONTAL DOWELS PER CITY OF HOUSTON STANDARD SPECIFICATION SECTION 02951–PAVEMENT REPAIR AND RESTORATION.
   - 5.4. REPLACE CURB WHEN ADJACENT LANE IS REPLACED.
   - 5.5. MAINTAIN CONCRETE EXPANSION JOINTS AT EXISTING LOCATIONS UNLESS OTHERWISE APPROVED BY CITY ENGINEER.

DISCLAIMER:
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CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

STREET CUT FOR ASPHALT PAVEMENT REPLACEMENT/RESTORATION FOR PAVEMENT OF ALL AGES
(SCALE: NOT TO SCALE)

APPROVED BY:

CITY ENGINEER	DIRECTOR OF HPW
DocuSigned by: Sukait Kanwar 9EF8D0C841F5478...	DocuSigned by: Carol Haddock A93C410B7203453...
CITY TRAFFIC ENGINEER	
DocuSigned by: KHANG NGUYEN 95A29EFDA75B4CD...	

EFF DATE: NOV–27–2023 | DWG NO: 02951–03

IDCUS
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15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

STREET CUT FOR ASPHALT PAVEMENT REPLACEMENT

SHEET 1 OF 1

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NTS	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 253 OF 278	

10/23/2025
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STREET CUT PAVEMENT DETAIL.dgn
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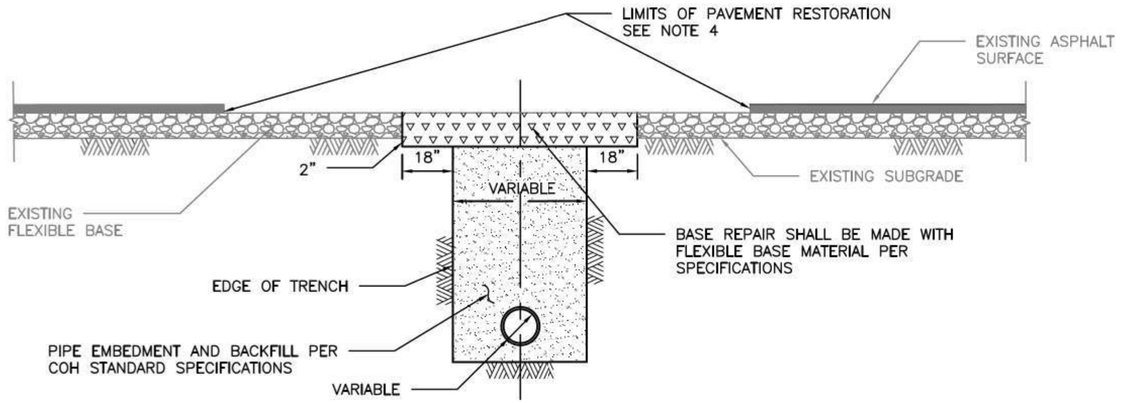
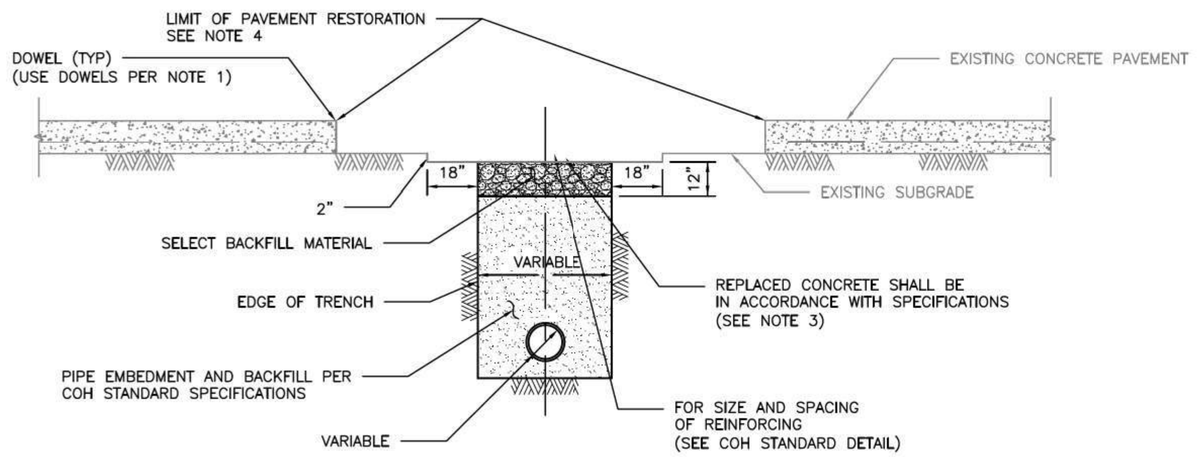


ELEVATION A
REPAIR OF FLEXIBLE BASE PAVEMENT



ELEVATION B
REPAIR OF REINFORCED CONCRETE PAVEMENT

NOTES:

1. EXPOSE 15" OF REINFORCING STEEL AT PROPOSED SAWED JOINT. IF NO REINFORCING STEEL EXISTS, USE HORIZONTAL DOWELS. HORIZONTAL DOWELS SHALL BE #6 BAR, 24" LONG, 24" C–C, DRILLED AND EMBEDDED 8" INTO THE CENTER OF THE EXISTING SLAB. WITH "PO ROC" OR EQUAL.
2. IF REINFORCED CONCRETE IS OVERLAYED WITH ASPHALT, REPLACE WITH 2" MIN HMAC SURFACING.
3. REFER TO STANDARD DETAIL 02751–01 FOR REINFORCING STEEL REQUIREMENTS.
4. REFER TO STANDARD DETAIL 02951–01 THROUGH 03 FOR PAVEMENT RESTORATION LIMITS.

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CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

PAVEMENT REPAIR DETAIL
FOR STREET CUTS
(FLEX–BASE PAVEMENT & CONCRETE PAVEMENT)
(SCALE: NOT TO SCALE)

APPROVED BY:

DocuSigned by: Sukait Kanwar 9EF8B0C841F5478... CITY ENGINEER

DocuSigned by: Carol Haddock A93C410B72B3453... DIRECTOR OF HPW

DocuSigned by: KHANG NGUYEN 95A29EFDA75B4CD... CITY TRAFFIC ENGINEER

EFF DATE: NOV–27–2023 | DWG NO: 02951–04

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FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

PAVEMENT REPAIR DETAIL
FOR STREET CUTS

SHEET 1 OF 1

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
NTS	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 254 OF 278	

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10/23/2025
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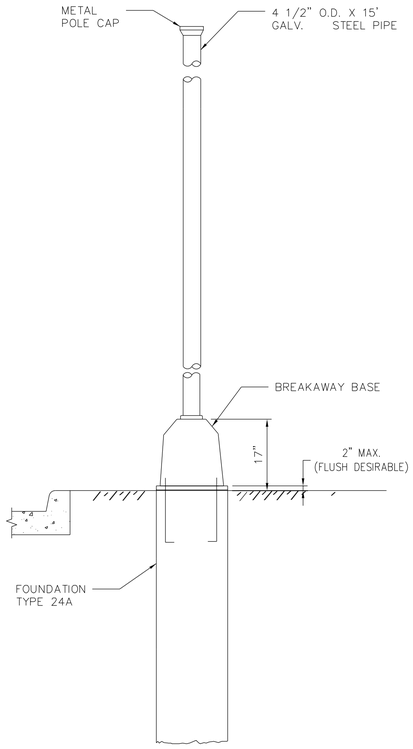
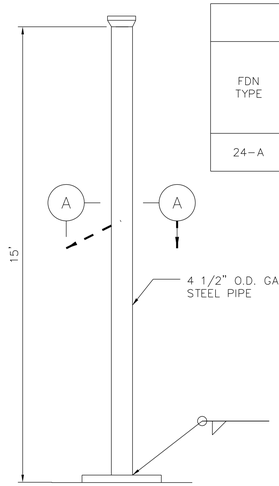
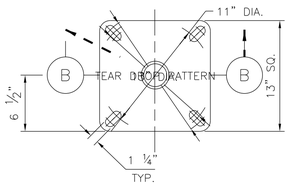
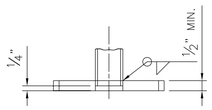




PEDESTAL POLE



SECTION A–A



SECTION B–B

FOUNDATION DESIGN TABLE										
FDN TYPE	DRILLED SHAFT DIA.	REINFORCING STEEL		DRILLED SHAFT LENGTH FT	ANCHOR BOLT DESIGN (SEE NOTE 5)				FOUNDATION DESIGN LOAD (SEE NOTE 6)	
		VERT. BARS	SPIRAL & PITCH	TEXAS CONE PENETROMETER 10 BLOWS/ FT	ANCHOR BOLT DIA.	FY (KSI)	BOLT CIR. DIA.	ANCHOR TYPE	MOMENT K–FT	SHEAR KIPS
24–A	24"	4–#5 BARS	#2 BAR AT 12"	6	3/4"	36	*13"	1	10	1

* 10 1/2" B.C. FOR PUSH BUTTON POLE

ANCHOR BOLT & TEMPLATE SIZES						
BOLT DIA. IN.	**BOLT LENGTH	TOP THREAD	BOTT. THREAD	BOLT CIRCLE	R_2	R_1
3/4"	1'–6"	3"	–	13"	7 1/8"	5 5/8"

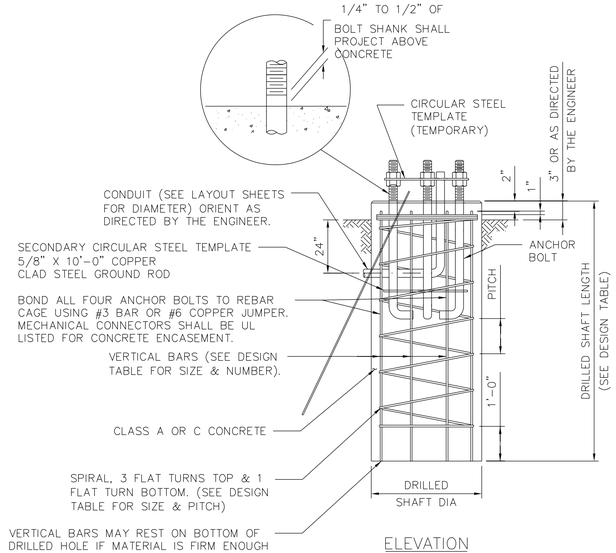
** MIN DIMENSIONS GIVEN, LONGER BOLTS ARE ACCEPTABLE.

GENERAL NOTES

1. DESIGN CONFORMS TO 1994 AASHTO STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS AND INTERIM REVISIONS THERETO.
2. CONCRETE SHALL BE CLASS A OR C.
3. THREADS FOR ANCHOR BOLTS AND NUTS SHALL BE ROLLED OR CUT THREADS OF UNIFIED NATIONAL COARSE THREAD SERIES EXCEPT FOR A193B7 BOLTS WHICH SHALL HAVE 8 PITCH THREAD SERIES. BOLTS AND NUTS SHALL HAVE CLASS 2A AND 2B FIT TOLERANCES. GALVANIZED NUTS SHALL BE TAPPED AFTER GALVANIZING.
4. ANCHOR BOLTS THAT ARE 1" IN DIAMETER OR LESS SHALL CONFORM TO ASTM A36. GALVANIZE ALL ANCHOR BOLTS UNLESS OTHERWISE NOTED. EXPOSED NUTS SHALL BE GALVANIZED OR COATED WITH ZINC–RICH PAINT. WASHERS SHALL BE GALVANIZED. TEMPLATES AND EMBEDED NUTS NEED NOT BE GALVANIZED.
5. ANCHOR BOLT DESIGN DEVELOPS THE FOUNDATION CAPACITY GIVEN UNDER FOUNDATION DESIGN LOADS.
6. FOUNDATION DESIGN LOADS ARE THE ALLOWABLE MOMENTS AND SHEARS AT THE BASE OF THE STRUCTURE.
7. ANCHOR BOLT ASSEMBLY INSTALLATION PROCEDURE

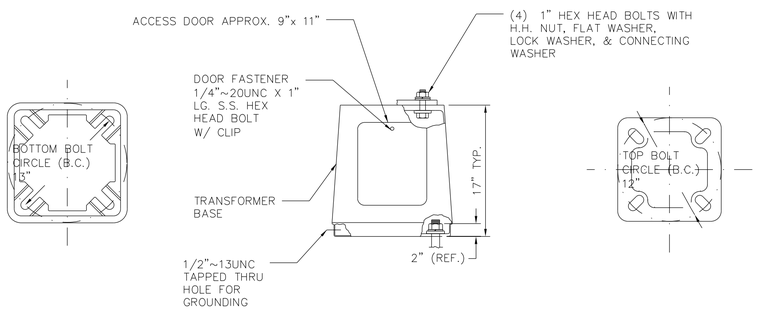
7.1. THREADS OF ANCHOR BOLTS SHALL BE COATED WITH PIPE JOINT COMPOUND PRIOR TO INSTALLATION OF UPPER NUTS WHEN ERECTING POLE. AFTER POLE IS PLUMBED AND IN PERMANENT ALIGNMENT, THE EXPOSED THREADS OF PAINTED BOLTS SHALL BE CLEANED AND AN ADDITIONAL COATING OF ZINC–RICH PAINT APPLIED TO SEAL THE BOLT THREAD–NUT JOINT.

8. DETAILS DEPICTED ON THIS SHEET SHOW A TYPICAL PEDESTAL POLE ASSEMBLY WITH A DRILLED SHAFT FOUNDATION.
9. USE 24 IN. DRILLED SHAFT FOUNDATION AS SHOWN.
10. PROVIDE BREAKAWAY FUSE HOLDER WITH DOUBLE–POLE HOUSING. ENSURE FUSE HOLDER IS POLARIZED, WATER–RESISTANT, UL RECOGNIZED, AND RATED FOR 30A MAXIMUM CURRENT CAPACITY AT 600V OR LESS. PROVIDE BREAKAWAY FUSE HOLDER FROM MANUFACTURERS PRE–QUALIFIED BY TXDOT TRAFFIC OPERATIONS DIVISION. SEE https://www.txdot.gov/business/resources/materials/material-producer-list.html FOR LIST OF PRE–QUALIFIED MANUFACTURERS. CATEGORY IS "ROADWAY ILLUMINATION AND ELECTRICAL SUPPLIES." PROVIDE 10 AMP TIME DELAY FUSES.
11. POLE SHAFT SHALL BE ONE PIECE. ALUMINUM CONDUIT WILL NOT DEVELOP THE NECESSARY STRENGTH AND WILL NOT BE ALLOWED. IN HIGH WINDS, USE A POLE AND BASE COLLAR ASSEMBLY TO ADD STRENGTH AND PREVENT LOOSENING ON CONNECTION.
12. PER MANUFACTURER'S RECOMMENDATIONS, ENGAGE ALL THREADS ON THE PEDESTAL POLE BASE AND PIPE UNLESS THE PIPE IS FULLY SEATED INTO BASE.
13. PROVIDE NON–FUSED WATERTIGHT BREAKAWAY ELECTRICAL CONNECTORS FOR BREAKAWAY POLES (BUSSMANN HET, LITTELFUSE LET, FERRAZ–SHAWMUT FEBN, OR APPROVED EQUAL).
14. PROVIDE SIGNAL HEADS AND MOUNTING AS SHOWN ELSEWHERE ON THE PLANS.



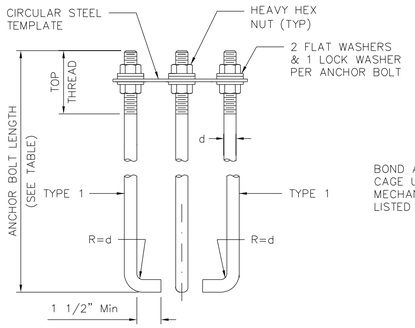
ELEVATION

FOUNDATION DETAILS

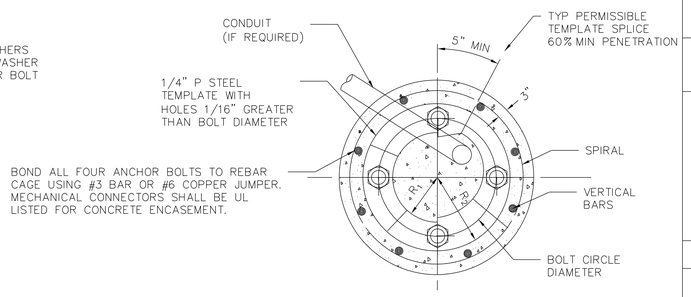


BOTTOM PLAN ELEVATION TOP PLAN

BREAKAWAY BASE DETAILS



HOOKED ANCHOR
(TYPE 1)



R_1 MAY EQUAL R_2 IF PLATE IS WELDED OF 3 OR MORE SEGMENTS.

TOP VIEW

APPROVED BY:	APPROVED BY:
DocuSigned by: Suhail Kanwar 9EFB0DC841F5478...	DocuSigned by: HUNG NGUYEN 95A29EFDA7504CD...
CITY ENGINEER	CITY TRAFFIC ENGINEER

APPROVED BY:
DocuSigned by: Carl Haddock A93C410B72E3453...
DIRECTOR OF HOUSTON PUBLIC WORKS

EFF DATE: NOV–27–2023	DWG NO: 02465–02

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RESPONSIBLE ENGINEER: HUNG H. NGUYEN, P.E. P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

TURKEY GULLY

PEDESTAL/PUSHBUTTON POLE DRILLED SHAFT FOUNDATION

SHEET 01 OF 01

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M–410291–0001–4	
DRAWING SCALE	
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CITY OF HOUSTON PM	
LOI MA, P.E.	
SHEET NO. 255 OF 278	

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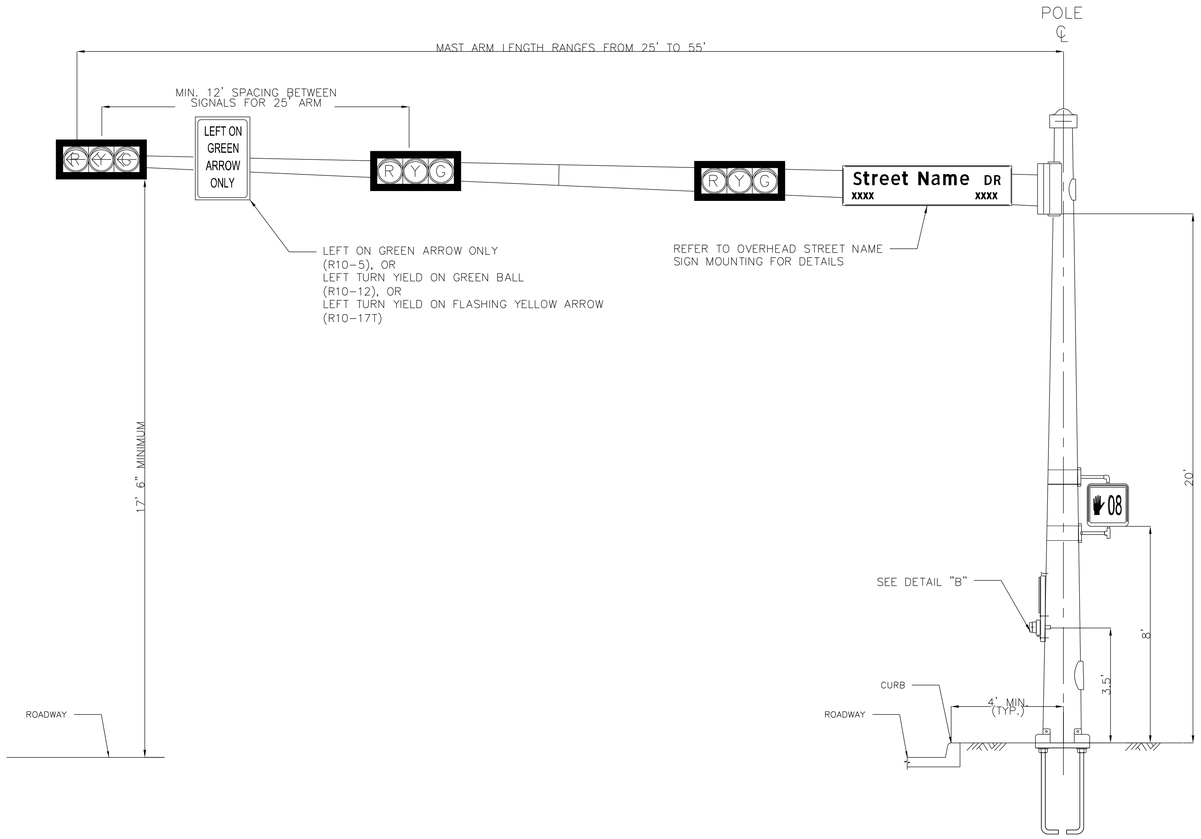
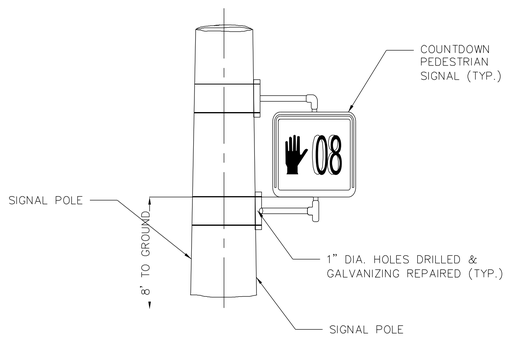


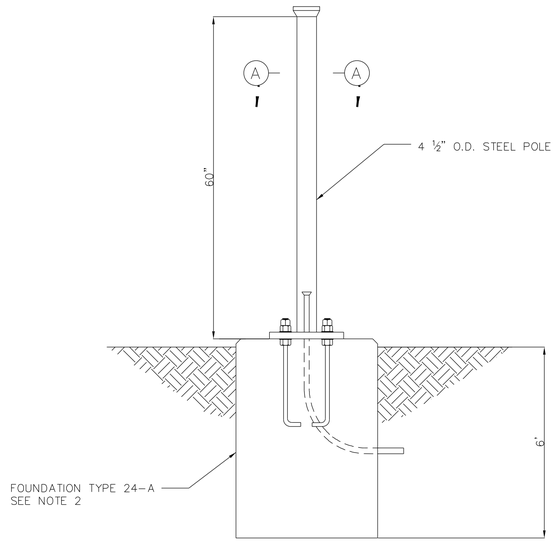


DETAIL "A"

TYPICAL PEDESTRIAN SIGNAL HEAD ON TRAFFIC POLE

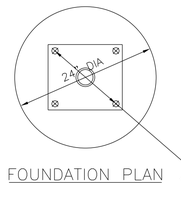
DETAIL "B"

2-WIRE POLARA NAVIGATOR PUSH BUTTON STATION WITH R10-3e SIGN

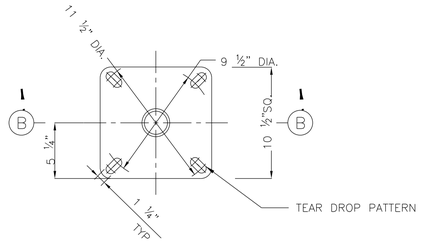


ELEVATION VIEW

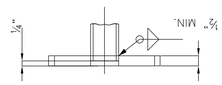
PEDESTRIAN PUSH BUTTON POLE



FOUNDATION PLAN



SECTION A-A



SECTION B-B

NOTE:

1. ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE REQUIREMENTS STATED ON CITY OF HOUSTON STANDARD DETAIL 02465-02 "PEDESTAL/PUSH BUTTON POLE DRILLED SHAFT FOUNDATION".
2. REFER TO CITY OF HOUSTON STANDARD DETAIL 02465-02 "PEDESTAL/PUSHBTTON POLE DRILLED SHAFT FOUNDATION" FOR ANCHOR BOLT DETAILS.

APPROVED BY:	APPROVED BY:
DocuSigned by: Suhail Tanwar 8EFB0DC841F5478...	DocuSigned by: HUNG NGUYEN 95A2FEFDA75B4CD...
CITY ENGINEER	CITY TRAFFIC ENGINEER

APPROVED BY:

DocuSigned by: Curt Hollock A50C4109735D453...

DIRECTOR OF HOUSTON PUBLIC WORKS

EFF DATE: NOV-27-2023	DWG NO: 02582-01

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

SURVEYED BY: KUO

FB NO. P-6325

CITY OF HOUSTON

HOUSTON PUBLIC WORKS STANDARD

TURKEY GULLY

TYPICAL MAST ARM/POLE FIXTURE CONFIGURATION

SHEET 01 OF 01

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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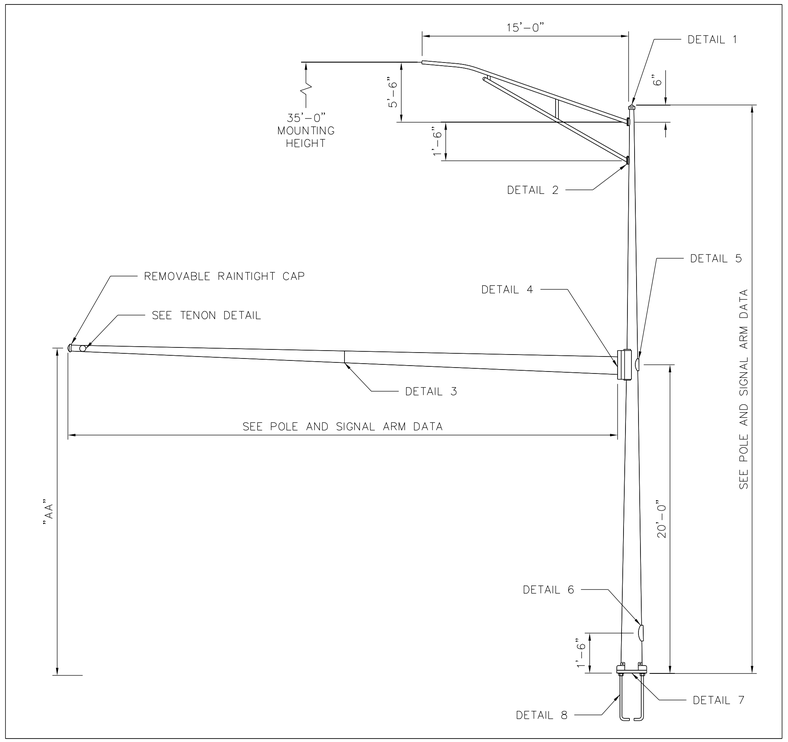
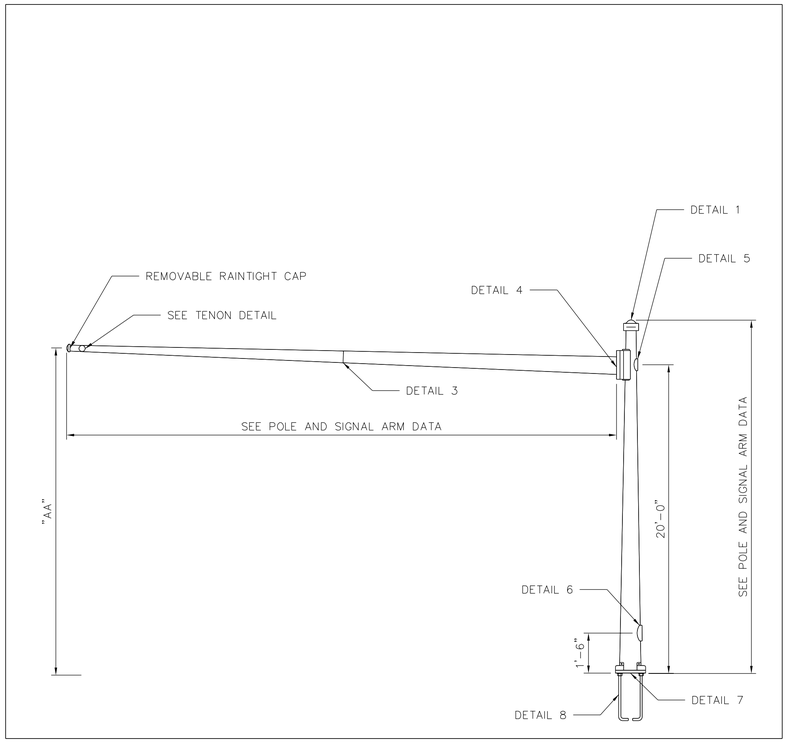
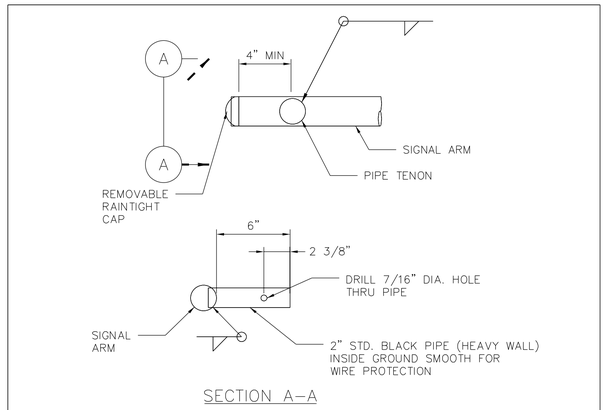






TENON DETAIL

ALTHOUGH RARE, VIBRATIONS SEVERE ENOUGH TO CAUSE DAMAGE CAN OCCASIONALLY OCCUR IN STRUCTURES OF ALL TYPES. BECAUSE THEY ARE INFLUENCED BY MANY INTERACTING VARIABLES, VIBRATIONS ARE GENERALLY UNPREDICTABLE. THE USER'S MAINTENANCE PROGRAM SHOULD INCLUDE OBSERVATION FOR EXCESSIVE VIBRATION AND EXAMINATION FOR ANY STRUCTURAL DAMAGE OR BOLT LOOSENING. ARMS SHALL BE VISUALLY INSPECTED IN 5 TO 20 MPH WIND CONDITIONS AFTER SIGNAL HEAD INSTALLATION AND, IF VERTICAL MOVEMENTS WITH A TOTAL EXCURSION (MAXIMUM POSITIVE TO MAXIMUM NEGATIVE) OF MORE THAN APPROXIMATELY 8 INCHES ARE OBSERVED AT ARM TIP, DAMPING DEVICES OR OTHER MEANS SHALL BE FITTED TO THE ARM(S). THE NECESSARY DAMPING DEVICE(S) OR OTHER REMEDIAL MEASURES SHALL BE AS RECOMMENDED BY THE CONTRACTOR. EXCESSIVE VIBRATIONS SHALL NOT BE ALLOWED TO CONTINUE FOR MORE THAN 2 DAYS.

VIBRATION DISCLAIMER

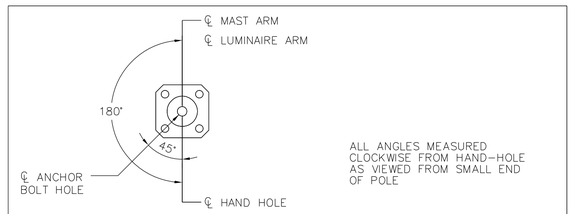
POLE AND MAST ARM DATA

DESIGNATION KEY			POLE TUBE						POLE BASE				ANCHOR BOLT				SIGNAL ARM TUBE				
POLE SERIES	POLE TYPE	SIGNAL ARM SPAN (FT)	BASE DIA. (IN)	TOP DIA. (IN) WITH LUM ARM	TOP DIA. (IN) WITHOUT LUM ARM	LENGTH (FT) WITH LUM ARM	LENGTH (FT) WITHOUT LUM ARM	GAUGE OR THK. (IN)	SQUARE "S" (IN)	BOLT CIRCLE "Y" (IN)	THK. "M" (IN)	HOLE / SLOT "Z" (IN)	DIA. "K" (IN)	LENGTH "J" (IN)	HOOK "H" (IN)	THREAD LENGTH "U" (IN)	FIXED END DIA. (IN)	FREE END DIA. (IN)	GAUGE OR THICK (IN)	SPAN (FT)	TIP HEIGHT "AA" (FT)
HOU	1	25	13.00	8.80	10.00	30.00	21.50	3	19.00	18.00	2.25	2.50	2.25	89.00	7.00	9.00	8.00	3.50	7	25.00	20.2
		30															9.00	4.80	7	30.00	20.3
		35															10.00	5.10	7	35.00	20.3
HOU	2	40	13.00	8.80	10.00	30.00	21.50	0.375									10.50	4.90	7	40.00	20.3
		45															10.14	3.84	3	45.00	20.4
		50															11.00	4.00	3	50.00	20.4
		55															11.50	4.16	DET 3	55.00	20.5

MATERIAL DATA

COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)	COMPONENT	ASTM DESIGNATION	MIN. YIELD (KSI)
POLE SHAFT – 3 GAUGE	A595 GR.A	55	MAST ARM CONN. BOLTS	F3125 GR A325*	
POLE SHAFT – 0.375"	A572 GR.55	55	LUM. ARM CONN. BOLTS	SAE GR.5	36
MAST ARM SHAFT	A595 GR.A	55	ANCHOR BOLTS	F1554 GR.55	55
LUMINAIRE ARM SHAFT	2" SCH. 80 PIPE		GALVANIZING	A123 & A153	
ARM ATTACHMENT PLATE	A36	36			
BASEPLATE	A36	36			

*LUBRICATE IN FIELD IF NECESSARY IN LIEU OF THE REQUIREMENTS IN F3125 GR.A325.



RADIAL INDEX

APPROVED BY: DocuSigned by: Sulad Kawwar — CITY ENGINEER

APPROVED BY: DocuSigned by: THANG NGUYEN — CITY TRAFFIC ENGINEER

APPROVED BY: DocuSigned by: Curt Hollock — DIRECTOR OF HOUSTON PUBLIC WORKS

EFF DATE: NOV-27-2023 | DWG NO: 02582-02

IDCUS
Planners | Engineers | Construction Managers
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

TURKEY GULLY

TRAFFIC SIGNAL STRUCTURES

SHEET 01 OF 02

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA, P.E.	
SHEET NO. 257 OF 278	

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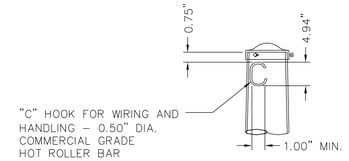
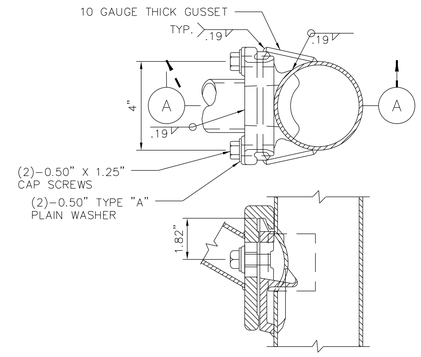
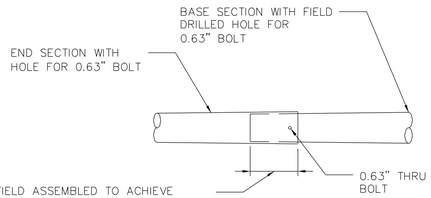


DETAIL 1 | POLE TOP



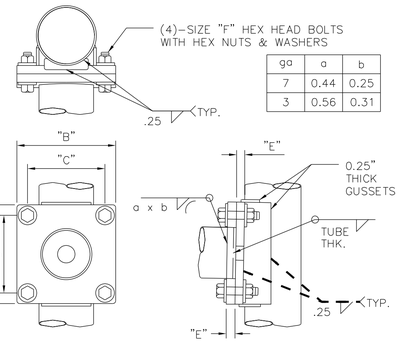
SECTION A–A

DETAIL 2 | LUMINAIRE ARM ATTACHMENT



ITEM	BASE SECTION		END SECTION	
	LENGTH	GAUGE	LENGTH	GAUGE
55.00'	26.42'	3	30.71'	7

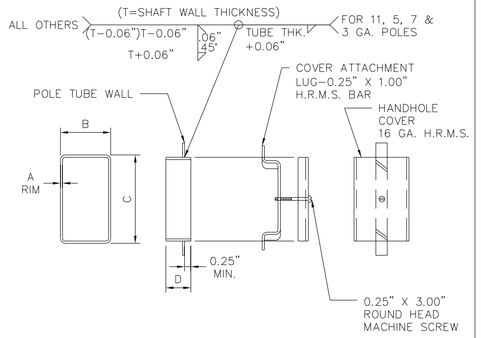
DETAIL 3 | SIGNAL ARM SLIP JOINT



ga	a	b
7	0.44	0.25
3	0.56	0.31

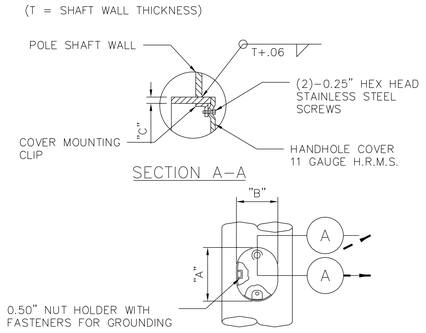
POLE TYPE	"A"	"B"	"C"	"D"	"E"	"F"
1	17.75"	17.75"	14.50"	14.50"	1.50"	1.25" X 4.50"
2	18.75"	18.75"	15.00"	15.00"	1.75"	1.50" X 5.25"

DETAIL 4 | SIGNAL ARM ATTACHMENT



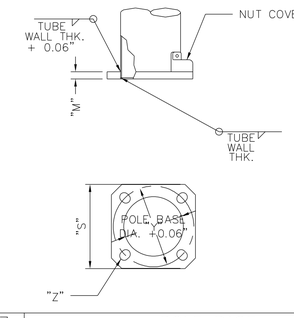
POLE TYPE	A	B	C	D
1	7 GA.	3.00"	5.00"	1.50"
2	0.50"	4.00"	6.00"	2.50"

DETAIL 5 | HANDHOLE

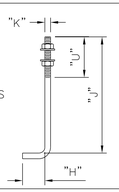


POLE TYPE	A	B	C
1	7.56"	5.19"	0.280"
2	7.31"	5.63"	0.432"

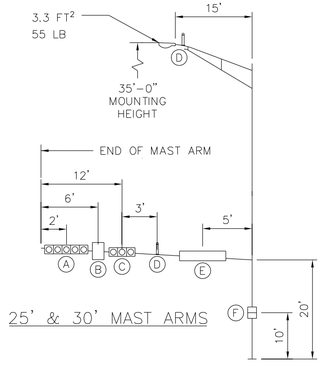
DETAIL 6 | HANDHOLE



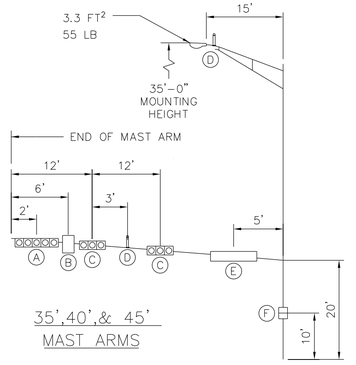
DETAIL 7 | POLE BASE



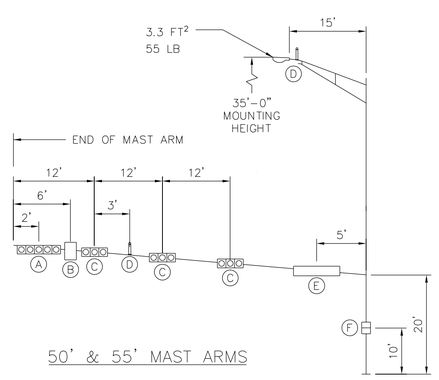
DETAIL 8 | ANCHOR BOLT



25' & 30' MAST ARMS



35',40',& 45' MAST ARMS



50' & 55' MAST ARMS

DESIGN NOTE:

DESIGNS ARE BASED ON THE LOADING CHART SHOWN ON THIS DRAWING AND ARE IN ACCORDANCE WITH MATERIALS AND ALLOWABLE STRESS REQUIREMENTS OF THE 1994 AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" FOR A 90 MPH WIND ZONE WITH A 1.3 GUST FACTOR.

DEVICE	DESCRIPTION	PROJ. AREA (FT^2)	WEIGHT (LBS)
Ⓐ	12"–5 SEC. SIGNAL WITH BACKPLATES	13.33	96
Ⓑ	30" X 36" SIGNAL ARM MOUNTED SIGN	7.50	15
Ⓒ	12"–3 SEC. SIGNAL WITH BACKPLATES	8.67	53
Ⓓ	VIVDS CAMERA	1.00	15
Ⓔ	24" X 72" STREET NAME SIGN	12.00	30
Ⓕ	PEDESTRIAN SIGNAL	4.00	40

MAXIMUM LOADING INFORMATION

APPROVED BY:
DocuSigned by: Suhail Kanwar
CITY ENGINEER

APPROVED BY:
DocuSigned by: HUNG NGUYEN
CITY TRAFFIC ENGINEER

APPROVED BY:
DocuSigned by: Carl Haddock
DIRECTOR OF HOUSTON PUBLIC WORKS

EFF DATE: NOV–27–2023 | DWG NO: 02582–03

IDCUS
Planners | Engineers | Construction Managers
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SURVEYED BY: KUO
FB NO. P–6325

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RESPONSIBLE ENGINEER: HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

TURKEY GULLY

TRAFFIC SIGNAL STRUCTURES

SHEET 02 OF 02

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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NOT TO SCALE	
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SHEET NO. 258 OF 278	

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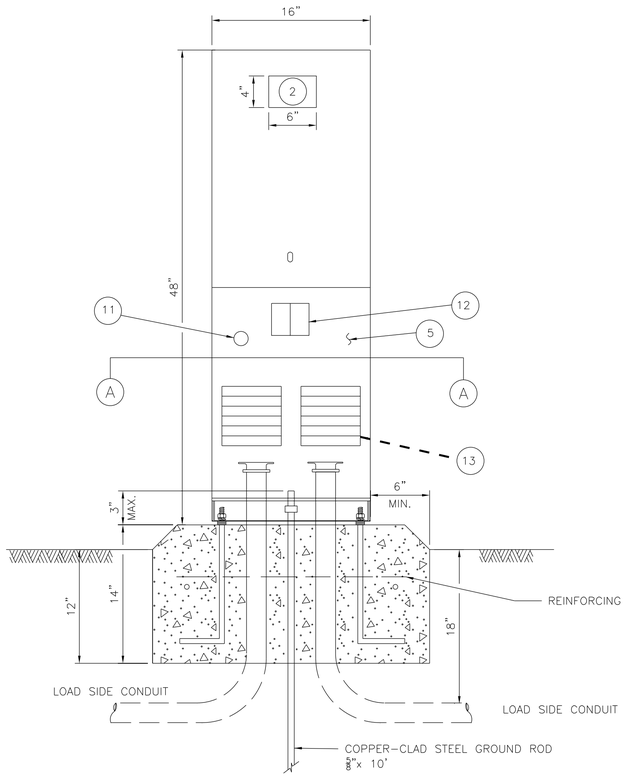
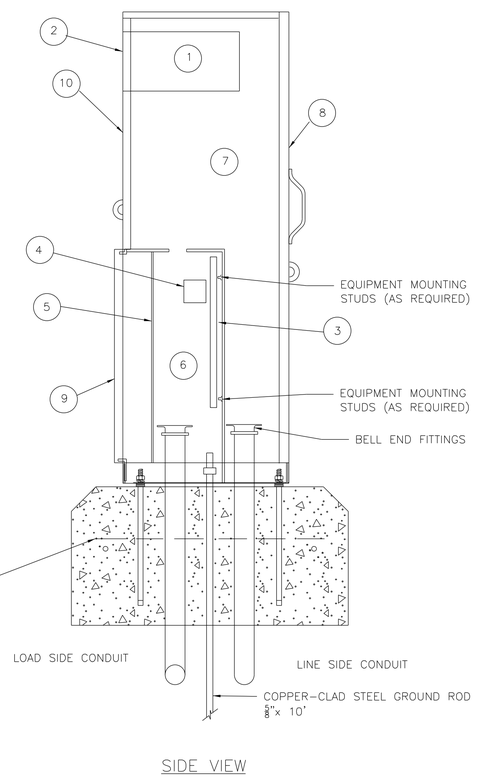


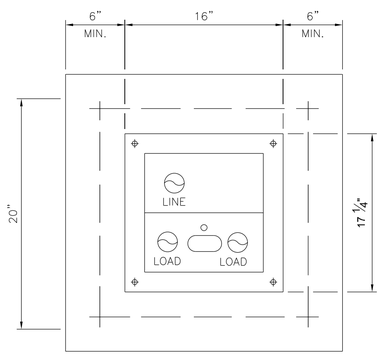
NOTE: ELLS IN FOUNDATION ARE RIGID METAL, SIZE CALLED FOR ON THE PLANS. EXTENSION CONDUITS FROM THESE ELLS MAY BE PVC, PROVIDED ENDS OF RIGID METAL CONDUITS ARE MORE THAN 2 IN. BELOW TOP OF CONCRETE FOUNDATION. WHERE EXTENSION CONDUITS ARE METAL, GROUNDING BUSHING MUST BE INSTALLED AND A BONDING JUMPER PROPERLY TERMINATED.

FRONT VIEW

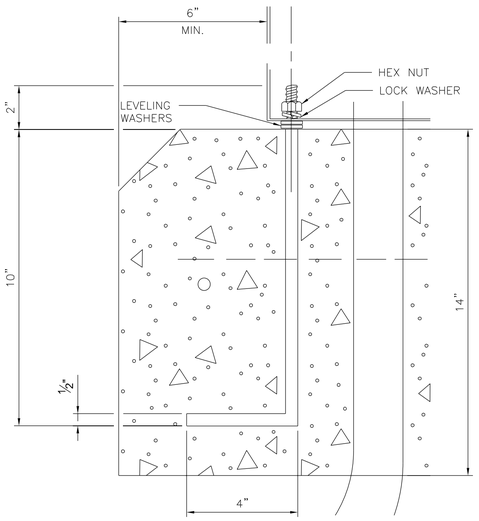


SIDE VIEW

TY C SHOWN, TY A SIMILAR EXCEPT THAT TY A SHALL HAVE INDIVIDUAL CIRCUIT BREAKERS MOUNTED ON AN EQUIPMENT MOUNTING PANEL. CB HANDLES SHALL PROTRUDE THROUGH HINGED DEADFRONT TRIM.



SECTION A-A



ANCHOR BOLT DETAIL

GENERAL NOTES:

1. THE PEDESTAL SERVICE SHALL BE UL TYPE 3R, AND SHALL BE CONSTRUCTED OF A MINIMUM OF 12 GAUGE STAINLESS STEEL OR ALUMINUM AS REQUIRED. STAINLESS STEEL SHALL NOT BE PAINTED. FOR ALUMINUM, THE FINISH SHALL BE AN ELECTROSTATIC APPLIED POLY-URETHANE BAKED ON POWDER, LIGHT GREEN IN COLOR, OR COLOR AS SHOWN ELSEWHERE AND AS APPROVED BY THE ENGINEER. THE FRONT OF THE INTERIOR DEAD FRONT TRIM SHALL BE PERMANENTLY LABELED, "DANGER HIGH VOLTAGE" WITH OSHA STYLE LABEL. THE EXTERIOR OF THE PEDESTAL SERVICE DOOR SHALL BE PERMANENTLY LABELED WITH A PLACARD AS TO ITS USE (I.E. ROADWAY LIGHTING, TRAFFIC SIGNALS, ETC.). PLACARD SHALL BE NEAT AND PROFESSIONAL IN APPEARANCE. LETTERING SHALL BE 1" MINIMUM HEIGHT.
2. UTILITY ACCESS DOOR SHALL HAVE STAINLESS STEEL PIANO HINGE AND PROVISIONS FOR PADLOCKING.
3. PEDESTAL DOOR SHALL HAVE STAINLESS STEEL PIANO HINGE AND STAINLESS STEEL LATCH WITH PROVISIONS FOR PADLOCKING.
4. METER ACCESS SHALL BE HINGED AND CAPABLE OF PADLOCKING.
5. ALL MOUNTING HARDWARE AND INSTALLATION DETAILS OF SERVICES SHALL BE IN ACCORDANCE WITH UTILITY COMPANY SPECIFICATIONS. THE CONTRACTOR IS RESPONSIBLE FOR CONTACTING THE LOCAL UTILITY COMPANY AND OBTAINING THEIR APPROVAL OF PEDESTAL DETAILS PRIOR TO MAKING SUBMITTAL TO THE CITY AND PRIOR TO CONSTRUCTING THE ELECTRICAL PEDESTAL SERVICE. ANY CHANGES REQUIRED BY THE UTILITY COMPANY SHALL BE NOTED ON THE SUBMITTALS.
6. METER SOCKET SHALL BE A MINIMUM OF 100 AMP RATING AND SHALL COMPLY WITH THE LOCAL UTILITY REQUIREMENTS.
7. PHOTOELECTRIC CONTROL SHALL MEET THE REQUIREMENTS AS SHOWN ON ED(5). SHIELD TO CONTROL STRAY LIGHT IS ALLOWABLE.
   THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPER OPERATION OF THE PHOTO-ELECTRIC CONTROL. THE CONTRACTOR SHALL MOVE AND/OR ADJUST OR SHIELD THE PHOTOCELL FROM STRAY OR AMBIENT NIGHTTIME LIGHT OR SHALL MAKE ANY OTHER ADJUSTMENTS REQUIRED FOR PROPER OPERATION. THE PHOTOCELL SHALL FACE NORTH WHEN PRACTICABLE. UNLESS OTHERWISE SHOWN ON THE PLANS, THE PHOTOCELL SHALL TURN ON THE ILLUMINATION SYSTEM AT 1.0 +(−) 0.5 FOOTCANDLE AND TURN OFF THE ILLUMINATION SYSTEM AT TWO FOOTCANDLES HIGHER THAN TURN ON.
8. THE CONTROL STATION (H-O-A SWITCH) SHALL BE AS SHOWN ON TxDOT STANDARD ED(5) EXCEPT THAT H-O-A SWITCH OPERATING HANDLE SHALL PROTRUDE THROUGH HINGED DEADFRONT TRIM AND NEMA 1 ENCLOSURE WILL NOT BE REQUIRED.
9. CONCRETE FOR PEDESTAL SERVICE FOUNDATION SHALL BE CLASS A OR C , AND SHALL BE IN ACCORDANCE WITH TxDOT ITEM 420, "CONCRETE STRUCTURES", EXCEPT THAT CONCRETE WILL NOT BE PAID FOR DIRECTLY BUT SHALL BE CONSIDERED INCIDENTAL.
10. REINFORCING STEEL SHALL BE #4 REBAR IN ACCORDANCE WITH TxDOT ITEM 440, "REINFORCING STEEL".
11. ANCHOR BOLTS SHALL BE A36M55 IN ACCORDANCE WITH ITEM 449, "ANCHOR BOLTS". ANCHOR BOLTS SHALL BE ½ INCH X 12 INCHES X 4 INCHES (DIA. X LENGTH X HOOK LENGTH).
12. ALL CONDUIT AND CONDUCTORS ATTACHED TO THE PEDESTAL SERVICE AND WITHIN 12 INCHES OF THE PEDESTAL SERVICE WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE SUBSIDIARY TO THE PEDESTAL SERVICE. ALL SERVICE CONDUIT AND CONDUCTORS FROM THE UTILITY COMPANY TRANSFORMER TO A POINT 12 INCHES FROM THE THE PEDESTAL SERVICE SHALL BE PAID FOR SEPARATELY. SERVICE CONDUIT SHALL BE THE SIZE AND TYPE AS SHOWN IN THE ELECTRICAL SERVICE DATA.
13. DIMENSIONS MAY VARY TO ACCOMODATE REQUIRED EQUIPMENT, UTILITY COMPANY REQUIREMENTS, OR MANUFACTURER'S STANDARD EQUIPMENT DIMENSIONS. THE CONTRACTOR SHALL SUBMIT TO THE ENGINEER FOR APPROVAL, SIX (6) COPIES OF BROCHURES AND/OR DRAWINGS OF THE PEDESTAL SERVICE TO BE SUPPLIED, INCLUDING ACTUAL DIMENSIONS, AND A PAINT COLOR SAMPLE.
14. A SEPARATE ENCLOSURE AS SHOWN ON TxDOT STANDARD ED(4) OR ED(5) FOR PHOTOCELL SHALL NOT BE USED FOR PEDESTAL SERVICES. PHOTOCELL SHALL BE INSTALLED AS SHOWN HERE.
15. THE PEDESTAL DOOR SHALL HAVE A MECHANICALLY ATTACHED DATA POCKET ON THE INSIDE. POCKET SHALL BE EITHER METAL OR THERMOPLASTIC AND SHALL MEASURE AT LEAST 12 INCHES BY 12 INCHES. THE CONTRACTOR SHALL PREPARE AND SUBMIT A SCHEMATIC DRAWING UNIQUE TO AN INDIVIDUAL SERVICE. THE APPROVED DRAWING SHALL BE LAMINATED AND PLACED IN THE DOCUMENT POCKET OF THE SERVICE AT THE TIME OF SHIPMENT TO THE JOB SITE. ALL APPLICABLE WIRING DIAGRAMS AND PLAN SHEET LAYOUTS FOR ALL EQUIPMENT AND BRANCH BREAKER CIRCUITS SUPPLIED BY THAT SERVICE SHALL ALSO BE LAMINATED AND PLACED IN THE DOCUMENT POCKET PRIOR TO SHIPPING.
16. GROUND ROD CLAMP TO BE UL LISTED FOR DIRECT BURIAL. ALL NON-CONDUCTIVE COATING TO BE REMOVED FROM GROUND ROD WIRE TO BE #6 AWG SOLID COPPER. METAL CONDUIT ELLS TO HAVE GROUNDING BUSHING AND BONDING JUMPERS CORRECTLY INSTALLED.
17. ALL CONDUITS ENTERING ENCLOSURES FROM UNDERGROUND MUST BE SEALED. SILICONE SHALL NOT BE ALLOWED.
18. ALL CONDUCTORS SHALL BE MEGGED AND PULL TESTED. TRAFFIC SIGNAL CABLE NOT TO BE MEGGED AFTER CONNECTION, AS ELECTRONICS WILL BE DAMAGED.
19. TOP OF CONCRETE FOUNDATION TO BE FINISHED IN A NEAT AND WORKMAN LIKE MANNER. IF LEVELING WASHERS ARE USED, NO MORE THAN ⅛ IN. HEIGHT
    SHALL BE USED AT ANY ONE CORNER. MAXIMUM DIP OR RISE IN FOUNDATION IS NOT TO EXCEED ⅛ IN PER FOOT. WHEN PROPERLY INSTALLED, TOP OF SERVICE ENCLOSURE SHALL READ LEVEL FRONT TO BACK AND SIDE TO SIDE WITHIN ¼ IN. ROCKING OR MOVEMENT OF THE SERVICE ENCLOSURE SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE STATE.
20. LIQUID TIGHT FLEXIBLE METAL CONDUIT SHALL NOT BE ALLOWED ON PS TYPE SERVICES.

LEGEND:

1. METER SOCKET, (WHEN REQUIRED)
2. METER SOCKET 4" x 6" PLEXIGLASS WINDOW INSTALLED IN THE LID.
3. EQUIPMENT MOUNTING PANEL
4. PHOTO ELECTRIC CONTROL WINDOW, (WHEN REQUIRED)
5. HINGED DEADFRONT TRIM
6. LOAD SIDE CONDUIT AREA
7. LINE SIDE CONDUIT AREA
8. UTILITY ACCESS DOOR, WITH HANDLE
9. PEDESTAL DOOR
10. HINGED METER ACCESS
11. CONTROL STATION (H-O-A SWITCH)
12. MAIN DISCONNECT
13. BRANCH CIRCUIT BREAKERS

APPROVED BY:	APPROVED BY:
DocuSigned by: Suhail Kanwar 8EF8D0C8415F5478...	DocuSigned by: HUNG NGUYEN 95A29EFDA759400...
CITY ENGINEER	CITY TRAFFIC ENGINEER

APPROVED BY:
DocuSigned by: Carl Haddock A82C81D57253453...
DIRECTOR OF HOUSTON PUBLIC WORKS

EFF DATE: NOV-27-2023	DWG NO: 02893-02

IDCUS
Planners | Engineers | Construction Managers
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

TURKEY GULLY

ELECTRICAL SERVICE SUPPORT PEDESTAL SERVICE TYPE PS

SHEET 01 OF 01

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA, P.E.	
SHEET NO. 259 OF 278	

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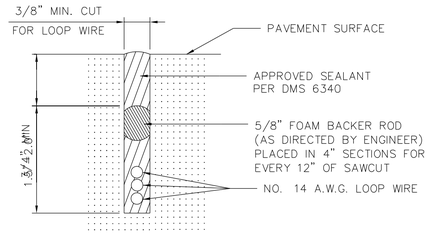
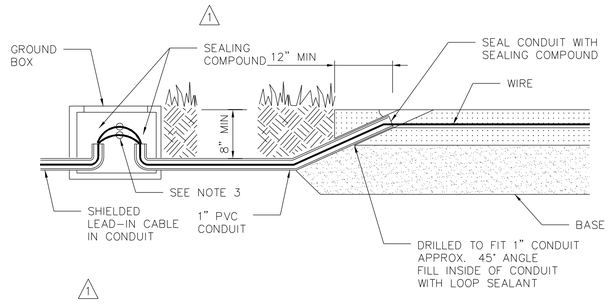
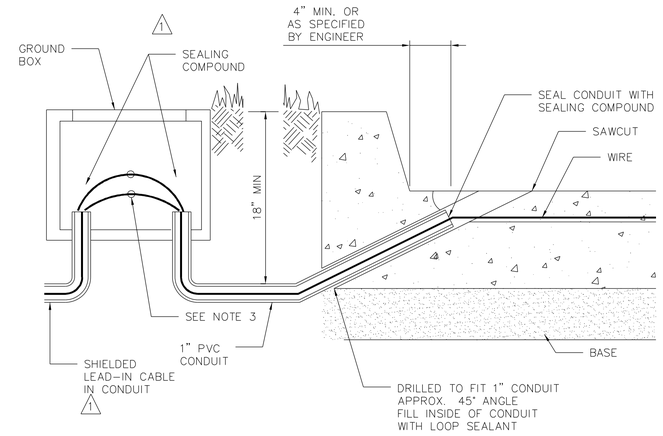


LOOP SAW CUT CROSS-SECTION

* SAWCUTS IN BRIDGE DECKS ARE TYPICALLY 1" DEPTH MAXIMUM
SAWCUTS IN BRIDGE DECKS AND ACROSS EXPANSION JOINTS
SHALL BE AS APPROVED BY ENGINEER



TYPICAL LEAD IN CONFIGURATION (WITHOUT CURBING)



TYPICAL LEAD IN CONFIGURATION (WITH CURBING)

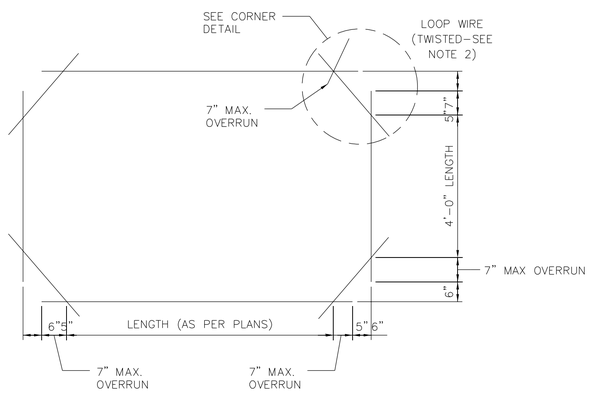
GENERAL NOTES:

1. THE PAVEMENT CUT IS TO BE MADE WITH A CONCRETE SAW TO NEAT LINES AND LOOSE MATERIAL REMOVED. THE CUT SHALL BE CLEAN AND DRY WHEN THE WIRE AND SEALING COMPOUND IS PLACED.
2. LOOP WIRE SHALL BE 14 AWG STRANDED TYPE XHHW. WIRE FROM THE LOOP TO THE GROUND BOX SHALL BE TWISTED A MINIMUM OF 5 TURNS PER FOOT. NO SPLICES SHALL BE PERMITTED IN THE LOOP OR IN THE RUN TO THE GROUND BOX.
3. THE HOME RUN CABLE FROM THE PULL BOX TO THE CONTROLLER SHALL BE IMSA 50-2 SHIELDED CABLE AND SHALL BE SOLDERED TO THE LOOP WIRE. THE SOLDER JOINTS SHALL BE SEALED WITH SCOTCHCAST OR OTHER METHOD ACCEPTABLE TO THE ENGINEER. THE SHIELD SHALL BE GROUNDED ONLY AT THE CONTROLLER END. LOOP HOME RUN CABLE SHALL BE TWO CONDUCTOR 14 AWG SHIELDED, TYPE XHHW.
4. ALL WIRE PLACED IN THE SAW CUT SHALL BE SEALED BY FULLY ENCAPSULATING IT IN A SEALANT ACCEPTABLE TO THE ENGINEER. SEALING COMPOUND SHALL BE IN ACCORDANCE WITH DMS 6340.
5. THE LOOP LOCATION, CONFIGURATION AND NUMBER OF TURNS SHALL BE AS INDICATED ON THE PLANS OR AS DIRECTED BY THE ENGINEER.

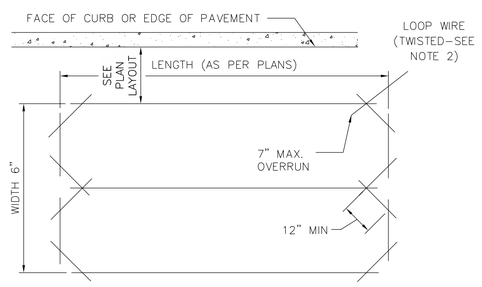
RECOMMENDED NUMBER OF TURNS FOR LOOP DETECTORS

LOOPS PERIMETER SIZE (FT.)	NUMBER OF TURNS	APPROXIMATE LOOP SIZES INCLUDED
24' or Less	3 or 4	5' x 5', 6' x 6'
25' – 110'	2 or 3	6' x 10', 6' x 45'
110' or More	1 or 2	6' x 50' or Longer

6. A SEPARATE SAW CUT SHALL BE MADE FROM EACH LOOP TO THE EDGE OF PAVEMENT OR AS SPECIFIED BY THE ENGINEER.
7. SPLICES BETWEEN THE LOOP LEAD-IN CABLE AND LOOP DETECTOR SHALL BE MADE ONLY IN THE GROUND BOX NEAR THE LOOP IT IS SERVING.
8. CIRCULAR LOOPS MAY USE PREWOUND LOOPS ENCASED IN CONTINUOUS PVC TUBING. SAWCUT WIDTH MAY BE ADJUSTED TO ACCOMMODATE TUBING.
9. THE LEAD-IN WIRE IN THE CIRCULAR LOOP SHALL BE COILED AT THE 3 INCH DRILLED CORNER TO REDUCE BENDING STRESS.
10. LOOP DUCT MAY BE USED AS SPECIFIED BY ENGINEER. FOR ADDITIONAL INFORMATION REFER TO "TEXAS TRAFFIC SIGNAL DETECTOR" MANUAL, TTI REPORT 1163-1.
11. ROUND CORNERS OF ACUTE ANGLES TO PREVENT DAMAGE TO CONDUCTORS.
12. INSTALL 3 TURNS WHEN ONLY ONE TYPE D LOOP IS ON A SINGLE CHANNEL. INSTALL 5 TURNS WHEN ONE TYPE D IS CONNECTED W/3-6'X6' LOOPS ON. A SINGLE CHANNEL.

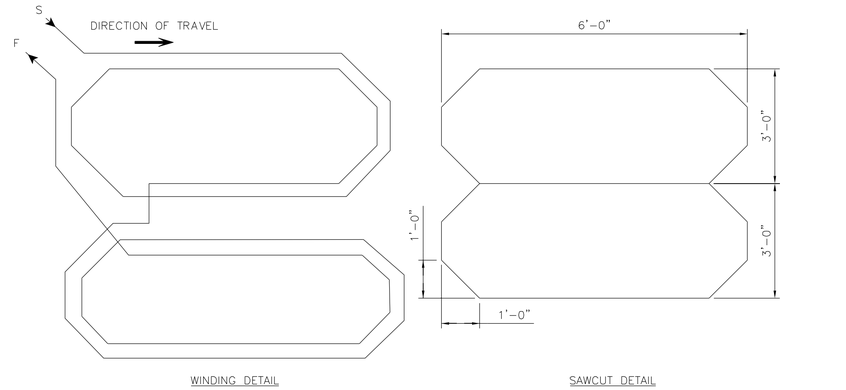


RECTANGULAR

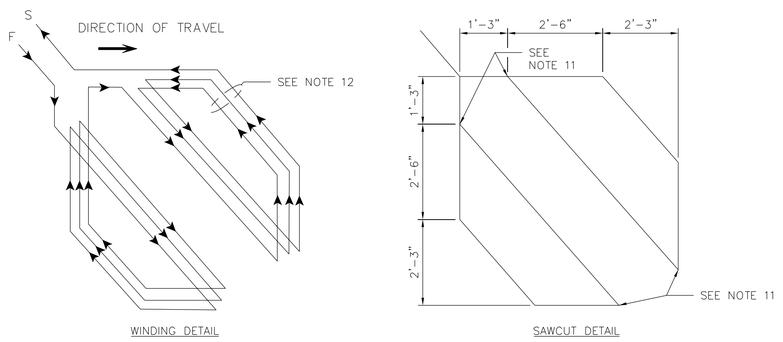


QUADRAPOLE

TYPICAL VEHICULAR LOOP DETECTOR LAYOUT
(AS SPECIFIED IN PLANS)

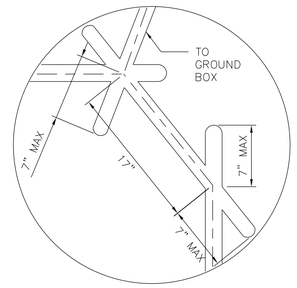


QUADRUPOLE (Q) TYPE LOOP DETECTOR CONFIGURATION

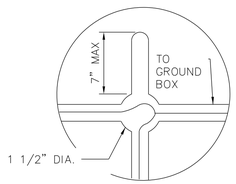


DIAGONAL SLASHED (D) TYPE LOOP DETECTOR CONFIGURATION

TYPICAL BICYCLE LOOP DETECTOR LAYOUT
(AS SPECIFIED IN PLANS. SEE PAVEMENT MARKINGS DETAILS FOR LOCATION RELATIVE TO BICYCLE SYMBOL)



RECTANGULAR & HEXIGON LOOP
SAWCUT CORNER DETAIL
7" OVERRUN BASED ON
24" DIAMETER SAW BLADE



RECTANGULAR & HEXIGON LOOP (ALT.)
DRILLED CORNER DETAIL

TYPICAL CORNER DETAILS

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DocuSigned by: Suhail Kanwar 8EFB0DC841F5478...	DocuSigned by: HANG NGUYEN 95A2FEFDA75B4CD...
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY: DocuSigned by: Carol Haddock A50C4159735D453...	
DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV-27-2023	DWG NO: 16727-01
IDCUS Planners | Engineers | Construction Managers TBPE FIRM REGISTRATION NO. F-6825	PRELIMINARY ENGINEERING NOT INTENDED FOR CONSTRUCTION. THESE PLANS ARE PRELIMINARY AND ARE BEING ISSUED FOR REVIEW BY PUBLIC AGENCIES AND OTHER PRELIMINARY PURPOSES. WHEN ISSUED IN FINAL FORM THEY WILL BE SEALED, SIGNED, AND DATED BY THE RESPONSIBLE ENGINEER. RESPONSIBLE ENGINEER: HUNG H. NGUYEN, P.E. P.E. NO.113148 on 10/27/2025
SURVEYED BY: KUO FB NO. P-6325	

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

TURKEY GULLY

LOOP DETECTOR INSTALLATION DETAILS

SHEET 01 OF 01

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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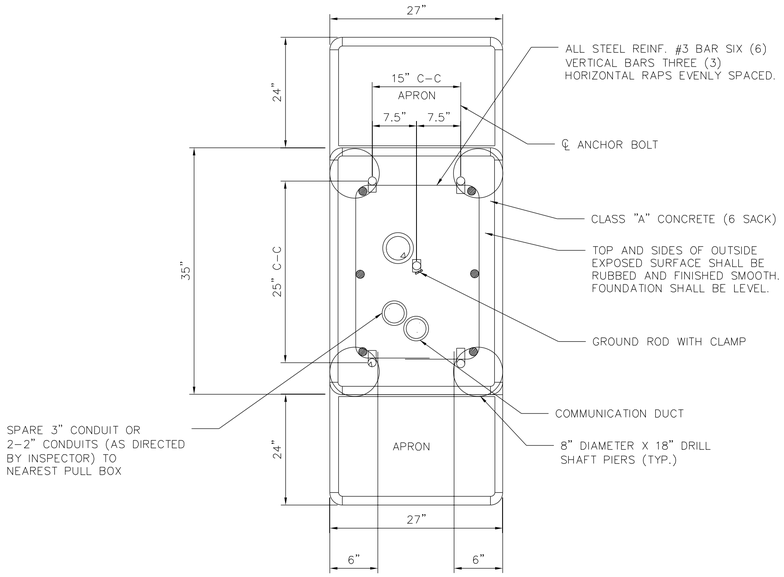
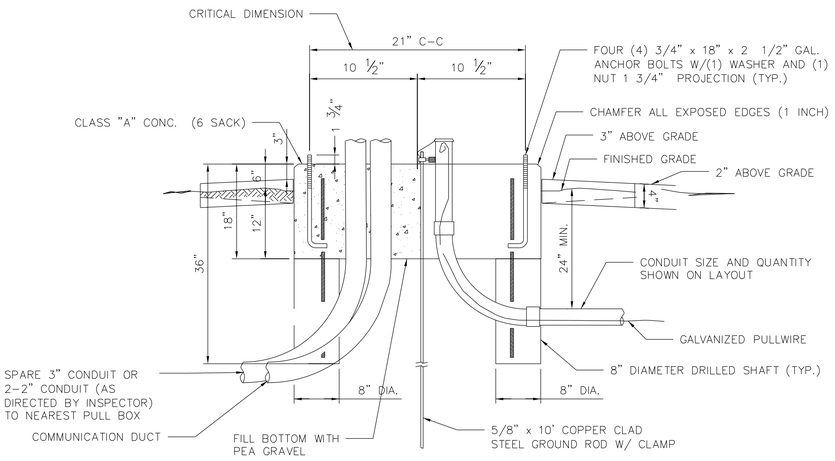
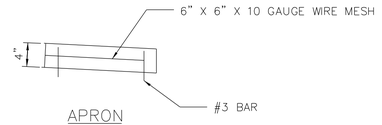
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA, P.E.	
SHEET NO. 260 OF 278	



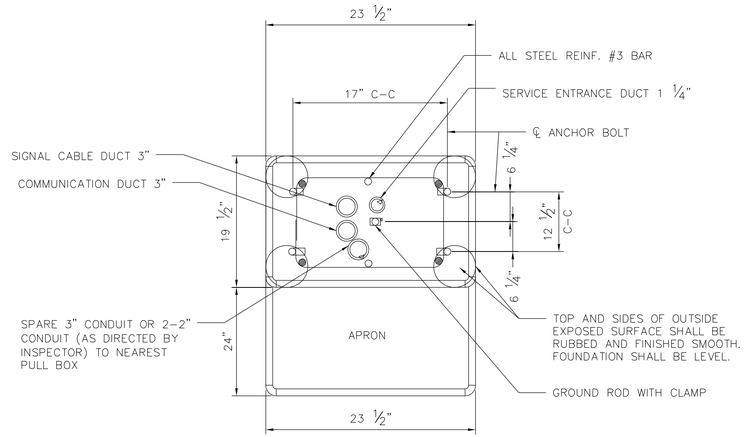
342-HOUSING 1 DETAIL
TOP VIEW



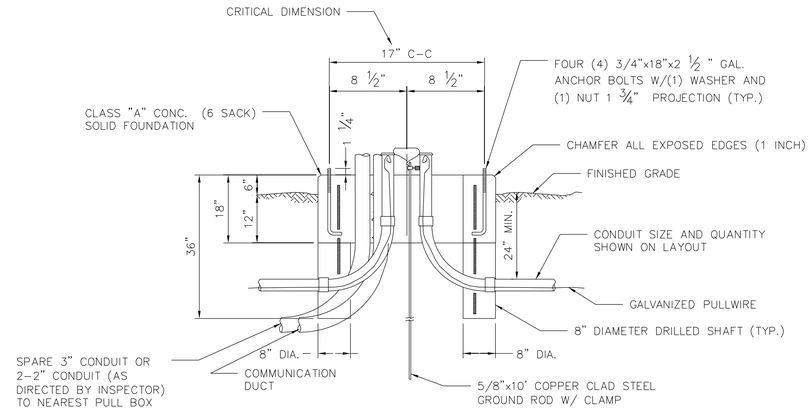
342-HOUSING 1 DETAIL
SIDE VIEW



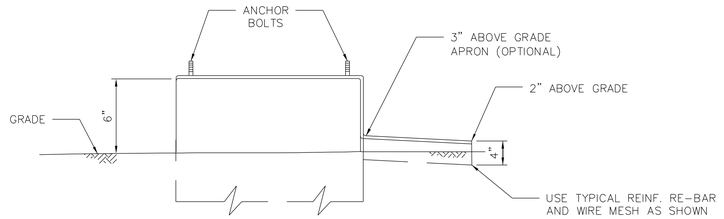
APRON
SIDE VIEW



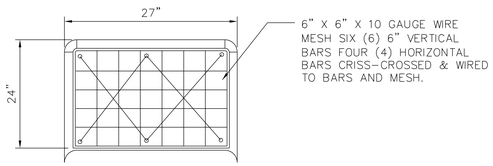
303 DETAIL



303 DETAIL
SIDE VIEW



303 DETAIL



APRON DETAIL
TOP VIEW

NOTES:

1. ALL CONDUIT ELBOWS TO BE RGS

APPROVED BY:	APPROVED BY:
DocuSigned by: Sukai Kanwar 3EFB00C841F5478...	DocuSigned by: HUNG NGUYEN 95A29EFDA7584CD...
CITY ENGINEER	CITY TRAFFIC ENGINEER

APPROVED BY:
DocuSigned by: Curt Haddock A93C410B7263453...
DIRECTOR OF HOUSTON PUBLIC WORKS

EFF DATE: NOV-27-2023	DWG NO: 16730-01
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SURVEYED BY: KUO FB NO. P-6325	

CITY OF HOUSTON

HOUSTON PUBLIC WORKS STANDARD

TURKEY GULLY

CONTROLLER FOUNDATIONS

SHEET 01 OF 03

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
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CITY OF HOUSTON PM	
LOI MA, P.E.	
SHEET NO. 261 OF 278	

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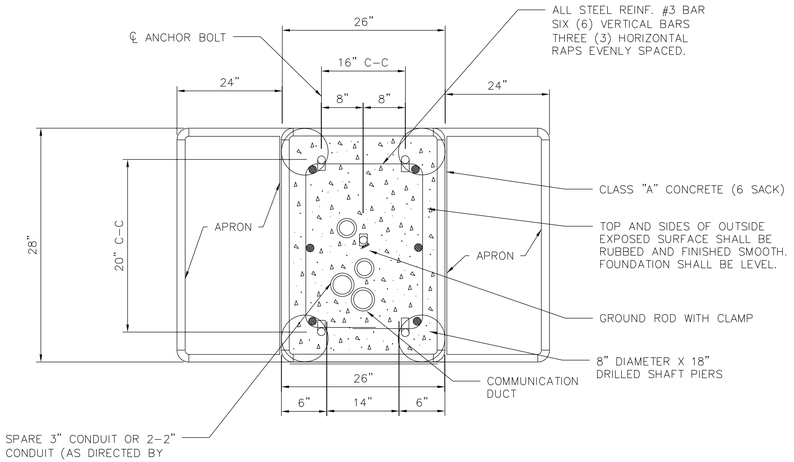
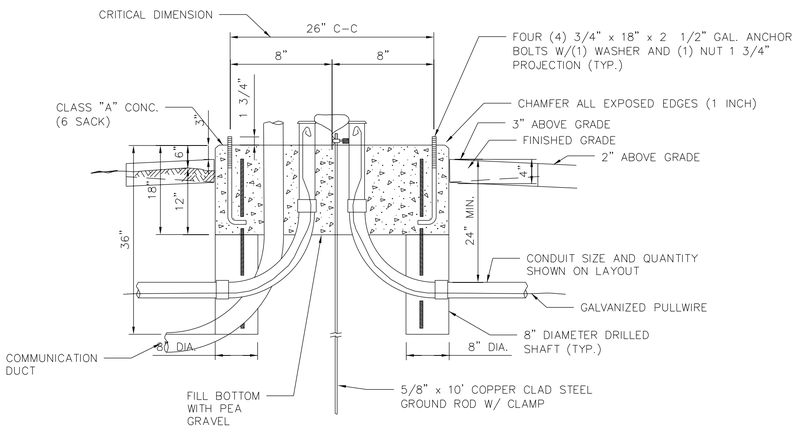
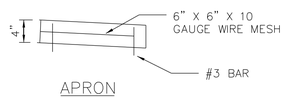


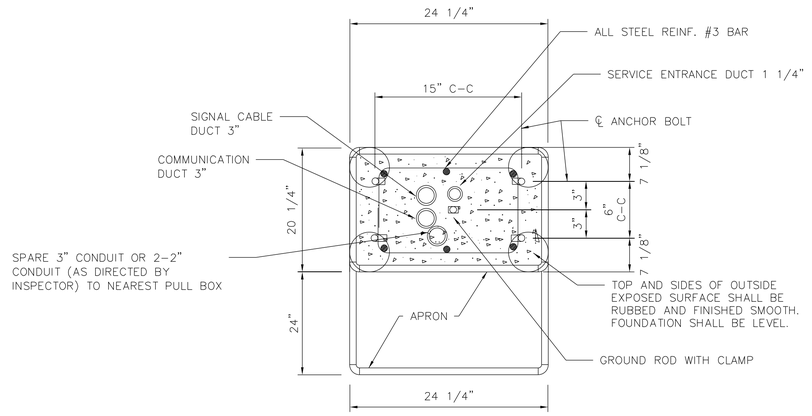
336 DETAIL
TOP VIEW



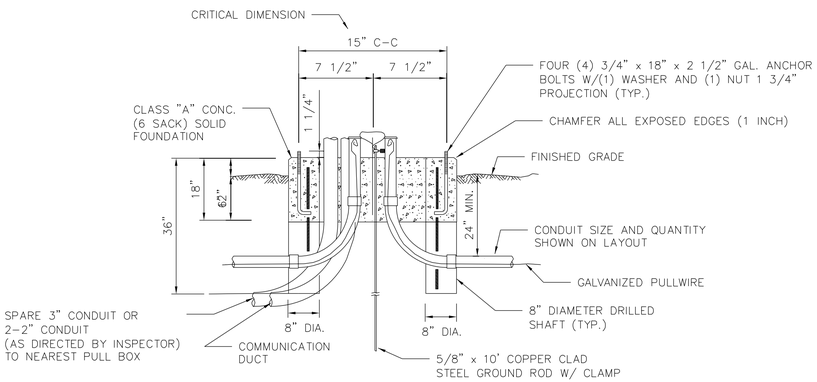
336 DETAIL
SIDE VIEW



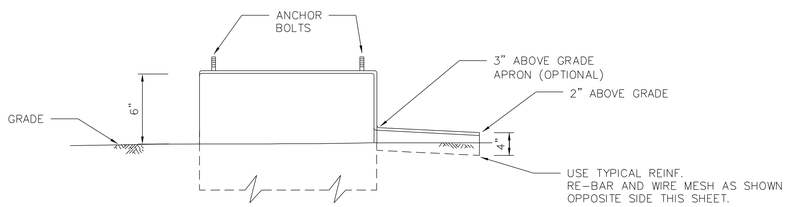
APRON
SIDE VIEW



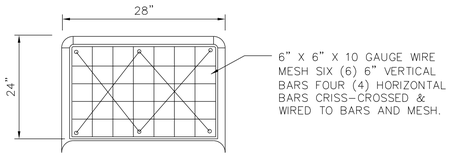
MODEL ITS 346 AND ATC 356i DETAIL
TOP VIEW



MODEL ITS 346 AND ATC 356i DETAIL
SIDE VIEW



MODEL ITS 346 AND ATC 356i DETAIL



APRON DETAIL
TOP VIEW

NOTES:

1. APRON TO BE INSTALLED IF NEEDED.

APPROVED BY:	APPROVED BY:
DocuSigned by: Sukat Kanwar 8EFB0DC841F5478...	DocuSigned by: KHANG NGUYEN 95A29EFDA75B4CD...
CITY ENGINEER	CITY TRAFFIC ENGINEER

APPROVED BY:
DocuSigned by:
Carl Haddock
A80C4109735D453...
DIRECTOR OF HOUSTON PUBLIC WORKS

EFF DATE: NOV–27–2023	DWG NO: 16730–02

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TBPE FIRM REGISTRATION NO. F-6825

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

SURVEYED BY: KUO
FB NO. P–6325

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

TURKEY GULLY

CONTROLLER FOUNDATIONS

SHEET 02 OF 03

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
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CITY OF HOUSTON PM	
LOI MA, P.E.	
SHEET NO. 262 OF 278	

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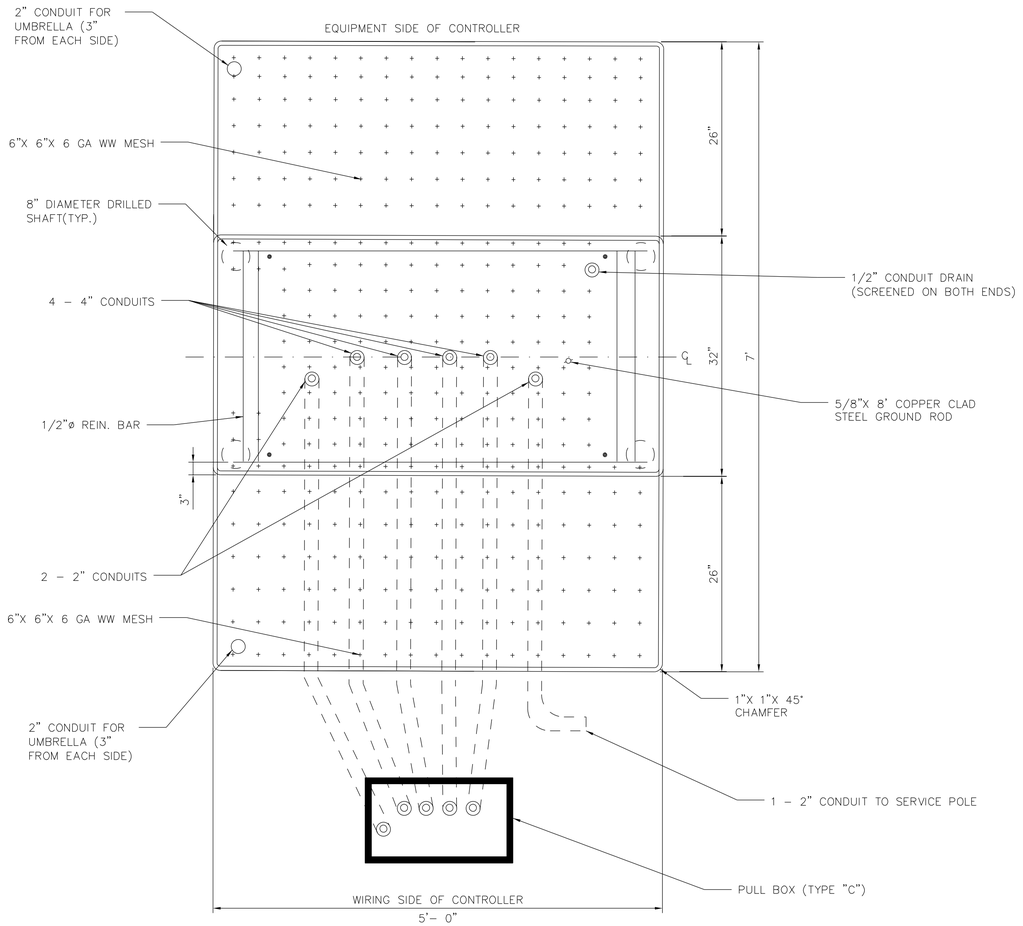
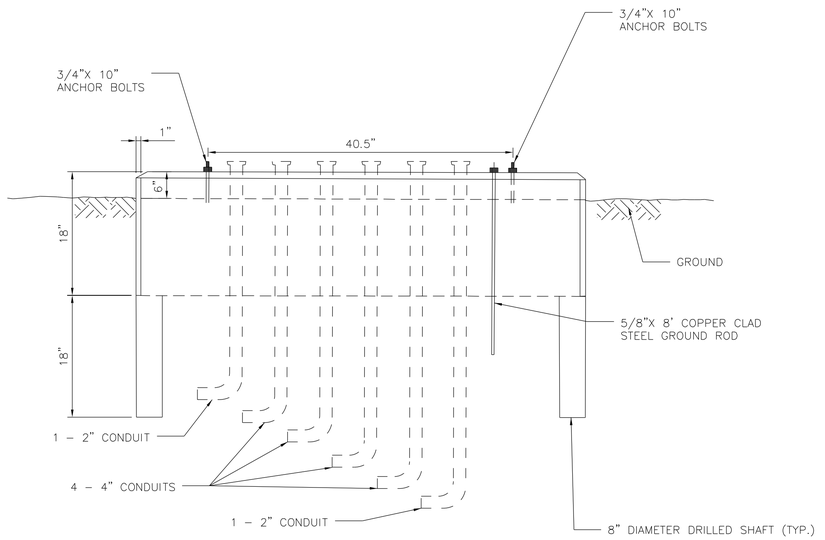
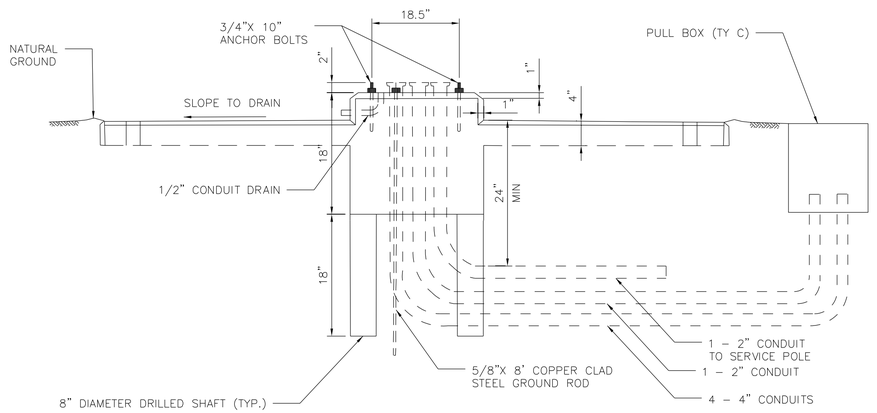


MODEL ITS 340 AND ACT 350i DETAIL
TOP VIEW



MODEL ITS 340 AND 350i DETAIL
FRONT VIEW



MODEL ITS 340 AND 350i DETAIL
SIDE VIEW

NOTES:

1. ALL CONCRETE TO BE IN ACCORDANCE WITH CITY OF HOUSTON SPECIFICATION SECTION 03310.
2. SET THE TOP OF THE STEP OF THE CONTROLLER FOUNDATION NO LOWER THAN THE LEVEL OF THE PAVEMENT SURFACE. ANY NECESSARY ADJUSTMENT SHALL BE APPROVED BY THE ENGINEER.
3. CENTER THE CABINET ON THE FOUNDATION.
4. THE FOUNDATION SHALL BE SUPPORTED BY UNDISTURBED SOIL OR BY SOIL THAT HAS BEEN COMPACTED TO 90% PROCTOR DENSITY IN 6" LIFTS.
5. ALL CONDUIT ELBOWS TO BE RGS.

APPROVED BY:	APPROVED BY:
DocuSigned by: Sukut Ivanwar 9EF800C8415478...	DocuSigned by: HUNG NGUYEN 95A28EFDA7564CD...
CITY ENGINEER	CITY TRAFFIC ENGINEER

APPROVED BY:
DocuSigned by: Carl Haddock A83C410B72B3453...
DIRECTOR OF HOUSTON PUBLIC WORKS

EFF DATE: NOV–27–2023 | DWG NO: 16730–03

IDCUS
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TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
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RESPONSIBLE ENGINEER: HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

TURKEY GULLY

CONTROLLER FOUNDATIONS

SHEET 03 OF 03

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CITY OF HOUSTON PM	
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SHEET NO. 263 OF 278	

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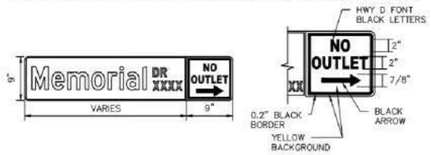
DocuSign Envelope ID: CB71C116-B716-4899-A5EE-0D2F2CC55AF6

POST MOUNTED STREET NAME SIGN W/ NO OUTLET SIGN



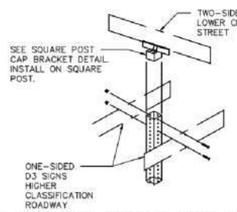
D3 – POST MOUNTED STREET NAME SIGN

OVERHEAD STREET NAME SIGN DETAIL

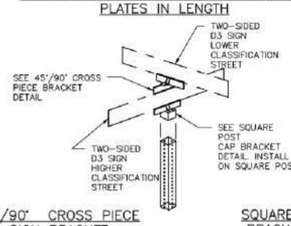
D3 – STREET NAME SIGN

	POST-MOUNTED SIGN	OVERHEAD SIGN
HEIGHT	9"	24"
LENGTH	30" MIN 48" MAX 6" INCREMENTS OF LENGTH	10" MAX 2" INCREMENT OF LENGTH
THICKNESS	0.125"	0.080"
SUBSTREATE	ALLUMINUM ALLOY, 5052-H38 (ASTM B-209)	
SIGN FACE MATERIALS	GREEN FILM OVER DIAMOND GRADE VIP SHEETING	
LEGENDS AND SYMBOLS	HIGHWAY GOTHIC SERIES D (USUAL) HIGHWAY GOTHIC SERIES C OR B FOR MAXIMUM LENGTH SIGN BLACK	
COLOR	LETTERS-WHITE REFLECTIVE BORDER-WHITE REFLECTIVE BACKGROUND-GREEN REFLECTIVE	

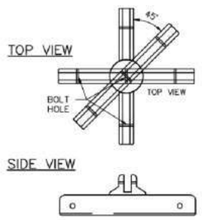
D3 SIGNS GREATER THAN 42" PLATES IN LENGTH



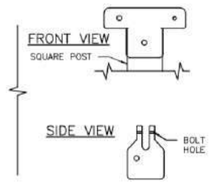
D3 SIGNS LESS THAN OR EQUAL TO 42" PLATES IN LENGTH



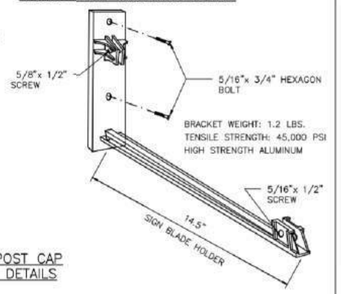
45°/90° CROSS PIECE SIGN BRACKET



SQUARE POST CAP BRACKET DETAILS



SIGNAL POLE MOUNTING DETAIL



NOTES:

1. TYPICAL SIGN PLATE SHOULD BE 30" MAX.
2. LONGER SIGN PLATE MUST BE APPROVED BY THE CITY TRAFFIC ENGINEER.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

STREET NAME SIGN AND SIGN MOUNTING

(SCALE: NOT TO SCALE)

APPROVED BY:

Sukut Iravanian — CITY ENGINEER
HUNG NGUYEN — CITY TRAFFIC ENGINEER
Carl Haddock — DIRECTOR OF HPW

EFF DATE: NOV-27-2023 | DWG NO: 01554-03

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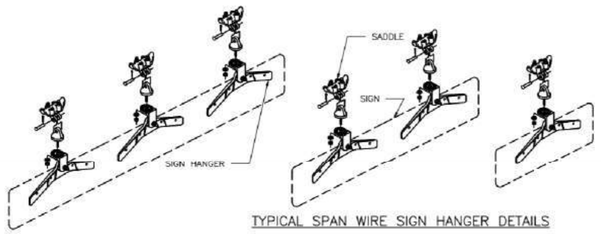
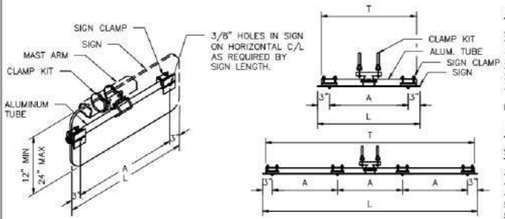


TYPICAL SPAN WIRE SIGN HANGER DETAILS

NOTES:

1. CONTRACTOR SHALL USE PELCO PARTS OR AN APPROVED EQUAL.
2. CONTRACTOR SHALL FURNISH ALL HARDWARE FOR A COMPLETE INSTALLATION.
3. THE 90 DEGREE SPAN WIRE CLAMPS (SADDLES) ARE ATTACHED TO TETHERS (SWAY CABLES).
4. CONTRACTOR SHALL FURNISH ONE (1) ADJUSTABLE FREE SWINGING SIGN HANGER PER STREET NAME SIGN SMALLER THAN 3'-0". SIGNS 3'-0" TO 6'-0" REQUIRE TWO (2) HANGERS. SIGNS LARGER THAN 6'-0" REQUIRE THREE (3) HANGERS.
5. SEE SIGN MOUNTING SERIES FOR STREET NAME SIGN DETAILS.



TYPICAL MAST ARM SIGN MOUNT DETAILS

SIGNS (1'-6" TO 3'-0" LONG)

SIGN LENGTH (L)	TUBE LENGTH (T)	A
1'-6"	16"	12"
2'-0"	22"	18"
2'-6"	28"	24"
3'-0"	34"	30"

MAXIMUM SIGN HEIGHT: 48"

SIGNS (3'-6" TO 8'-0" LONG)

SIGN LENGTH (L)	TUBE LENGTH (T)	A
3'-6"	40"	12"
4'-0"	46"	14"
4'-6"	52"	16"
5'-0"	58"	18"
5'-6"	64"	20"
6'-0"	70"	22"
6'-6"	76"	24"
7'-0"	82"	26"
7'-6"	88"	28"
8'-0"	94"	30"

MAXIMUM SIGN HEIGHT: 24"

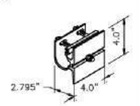
SIGNS (8'-6" TO 10'-0" LONG)

SIGN LENGTH (L)	TUBE LENGTH (T)	A	B
8'-6"	100"	19"	20"
9'-0"	106"	20"	22"
9'-6"	112"	21"	24"
10'-0"	118"	22"	26"

MAXIMUM SIGN HEIGHT: 16"

SIGN SQUARE FOOTAGE NOT TO EXCEED ROTATIONAL RESISTANCE CAPACITY DEFINED BY MOUNTING HARDWARE MANUFACTURER.

GUSSETED TUBE CROSS SECTION



SIGN CLAMP DETAIL

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

OVERHEAD STREET NAME SIGN MOUNTING DETAILS

(SCALE: NOT TO SCALE)

APPROVED BY:

Sukut Iravanian — CITY ENGINEER
HUNG NGUYEN — CITY TRAFFIC ENGINEER
Carl Haddock — DIRECTOR OF HPW

EFF DATE: NOV-27-2023 | DWG NO: 01554-11

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(713) 541-5591

TBPE FIRM REGISTRATION NO. F-6825

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY TRAFFIC SIGNAL MISCELLANEOUS DETAILS

SHEET 01 OF 04

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SHEET NO. 264 OF 278	

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10/23/2025
FINAL STD SHEET 10.dgn

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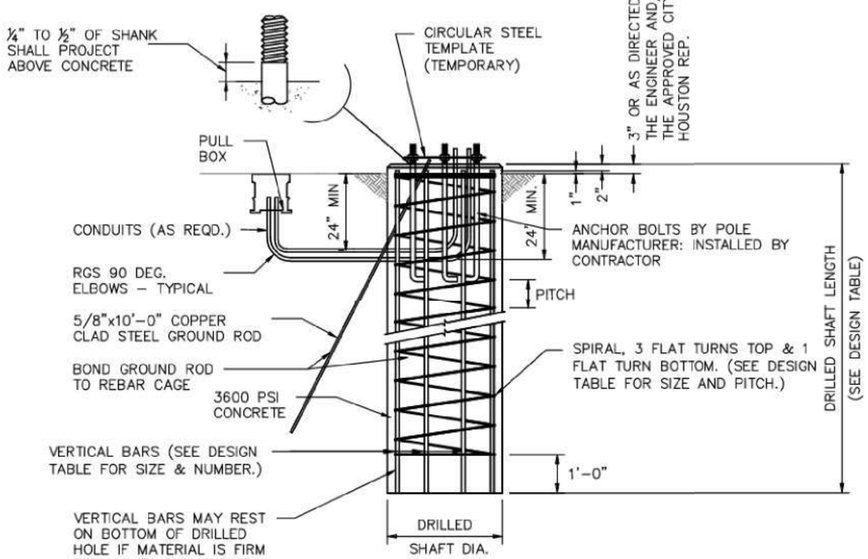
FOUDATION DESIGN TABLE									
POLE MARK	DRILLED SHAFT DIA.	REINFORCING STEEL		DRILLED SHAFT LENGTH FT.	BOLT CIRCLE DIA.	FOUNDATION DESIGN LOADS (1)			TYPICAL APPLICATION
		VERT. BARS	SPIRAL & PITCH			MOMENT K-FT.	SHEAR KIPS	TORQUE K-FT.	
HOU 1	30"	8-#9 BAR	#3 BAR @9"	14'-0"	18"	72.2	3.4	51.9	MAST ARM ASSEMBLY (25'-35') IN COHESIVE SOILS
HOU 2	30"	8-#9 BAR	#3 BAR @9"	18'-0"	18"	89.9	4.0	98.0	MAST ARM ASSEMBLY (40'-55') IN COHESIVE SOILS MAST ARM ASSEMBLY (25'-55') IN NON-COHESIVE SOILS

FOUNDATION DESIGN TABLE NOTES:

(1) FOUNDATION DESIGN LOADS ARE THE ALLOWABLE MOMENTS, SHEARS AND TORQUES AT THE TOP OF THE FOUNDATION.

(2) CONSTRUCT IN ACCORDANCE WITH CITY OF HOUSTON SPECIFICATION SECTION 02465, "DRILLED SHAFT FOUNDATIONS".

(3) FOUNDATION DESIGN IS BASED UPON AN UNDRAINED SHEAR STRENGTH OF 1500 PSF FOR COHESIVE SOILS AND A TEXAS CONE PENETROMETER MINIMUM OF 10 BLOWS/FOOT IN NON-COHESIVE SOILS. WHERE COHESIVE AND NON-COHESIVE LAYERS EXIST WITHIN THE SPECIFIED SHAFT LENGTH, THE NON-COHESIVE SOILS SHALL GOVERN. LOWER SOIL PARAMETERS WILL REQUIRE A SPECIAL DESIGN.



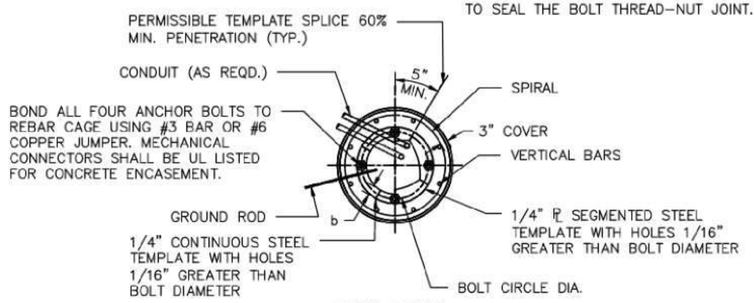
FOUNDATION DETAILS

GENERAL NOTES:

1. DESIGN IS FOR CITY OF HOUSTON STANDARD TRAFFIC SIGNAL MAST ARM SUPPORT STRUCTURES BY VALMONT INDUSTRIES, INC.
2. DESIGN CONFORMS TO 2001 AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS" AND INTERIM REVISIONS THERETO FOR A 90 MPH WIND ZONE WITH A 1.3 GUST FACTOR AND ACI "BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE (ACI 318-02).
3. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GRADE 60.
4. CONCRETE SHALL BE 6 SACK, 3600 PSI.
5. ALL ANCHOR BOLTS SHALL BE GALVANIZED THE ENTIRE LENGTH OF BOLT. EXPOSED NUTS AND WASHERS SHALL ALSO BE GALVANIZED.

INSTALLATION PROCEDURE

THREADS OF ANCHOR BOLTS SHALL BE COATED WITH PIPE JOINT COMPOUND PRIOR TO INSTALLATION OF UPPER NUTS WHEN ERECTING POLE. AFTER POLE IS PLUMBED AND IN PERMANENT ALIGNMENT, THE EXPOSED THREADS OF PAINTED BOLTS SHALL BE CLEANED AND AN ADDITIONAL COATING OF ZINC-RICH PAINT APPLIED TO SEAL THE BOLT THREAD-NUT JOINT.



TOP VIEW

NOTE:

1. b = MINIMUM STEEL TEMPLATE WIDTH EQUAL TO TWO TIMES ANCHOR BOLT DIAMETER.
2. STEEL TEMPLATE MAY BE OF CONTINUOUS WIDTH OR SEGMENTED WIDTH.
3. SEE FOUNDATION DESIGN TABLE FOR BOLT CIRCLE DIAMETER.
4. BOLTS SHOULD BE CHECKED FOR PLUMB AFTER CONCRETE IS POURED AND BEFORE INITIAL SET.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

DRILLED SHAFT FOUNDATIONS

(SCALE: NOT TO SCALE)

APPROVED BY:

DocuSigned by: Sukail Kanwar — CITY ENGINEER

DocuSigned by: KHANG NGUYEN — CITY TRAFFIC ENGINEER

DocuSigned by: Carol Haddock — DIRECTOR OF HPW

EFF DATE: NOV-27-2023 | DWG NO: 02465-01

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
TRAFFIC SIGNAL
MISCELLANEOUS DETAILS

SHEET 02 OF 04

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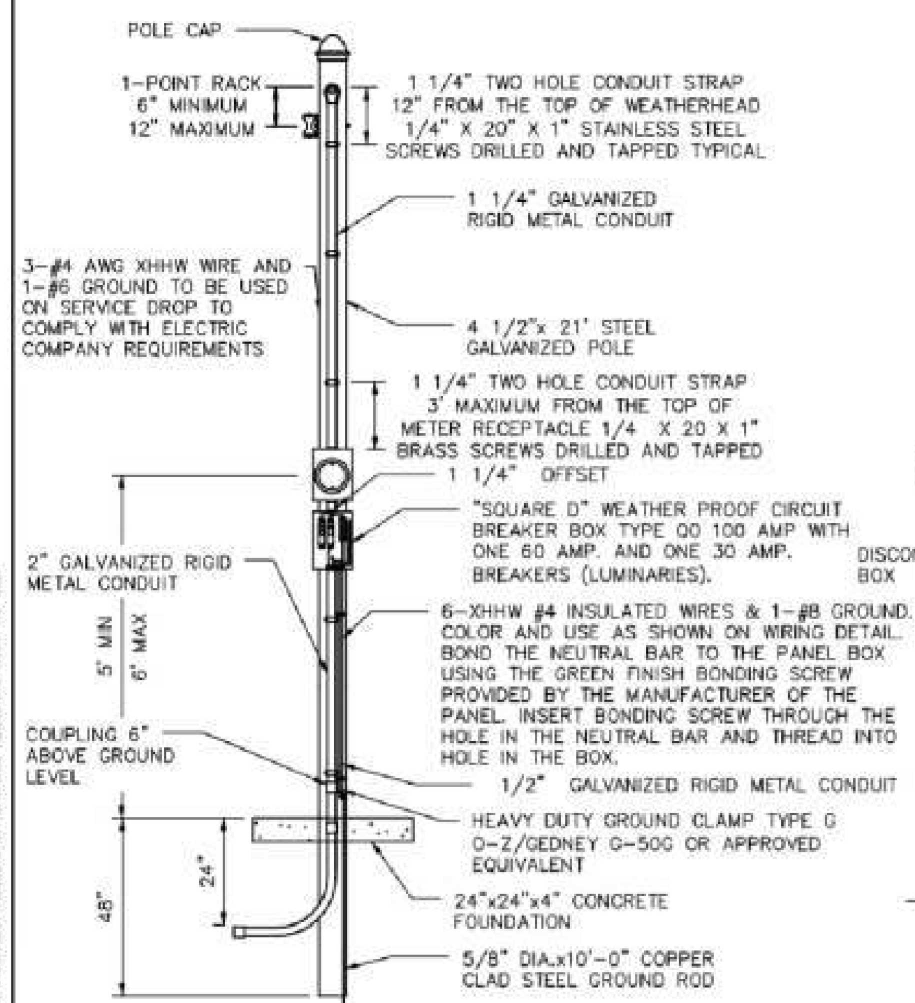
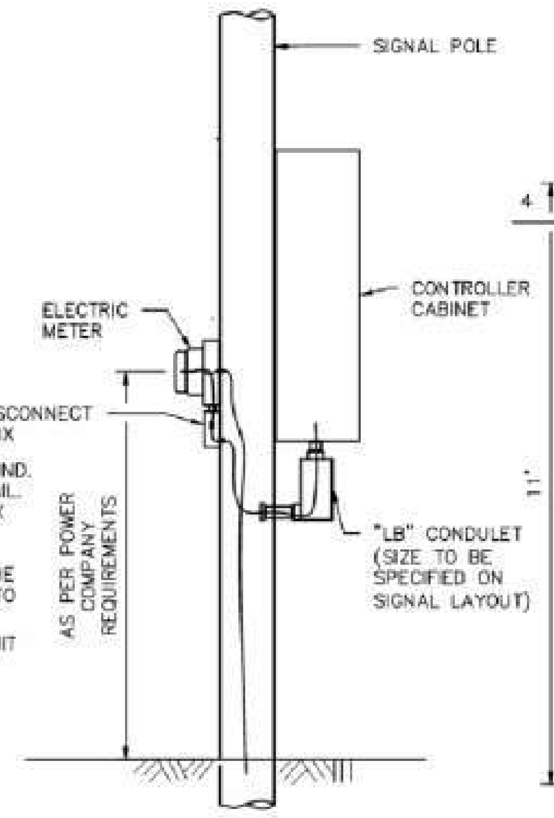
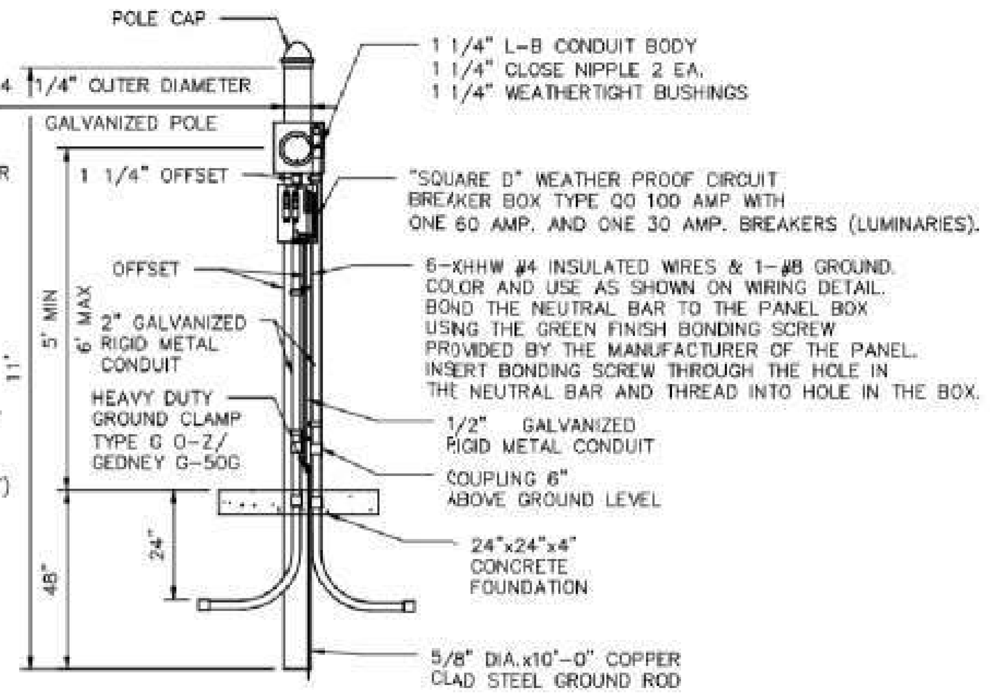


METER POLE ASSEMBLY
(AERIAL SERVICE)



POLE MOUNTED CONTROLLER
& ELECTRIC METER DETAIL



METER POLE ASSEMBLY
(UNDERGROUND SERVICE)

NOTES:

1. CLEARANCE FOR SERVICE ENTRANCE AND DROP CONDUCTORS 12 FT ABOVE FINISHED GRADE, SIDEWALKS, RESIDENTIAL DRIVEWAYS OR AREAS WHERE TRUCK TRAFFIC IS NOT ENCOUNTERED TRUCKS SHALL BE DEFINED AS ANY VEHICLE EXCEEDING 8 FT IN HEIGHT.
2. 18 FT. OVER NON-RESIDENTIAL DRIVEWAYS, PARKING LOTS, ALLEYS AND OTHER AREAS SUBJECT TO TRUCK TRAFFIC 22 FT. OVER PUBLIC STREETS AND ROADS.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

METER LOOP

(SCALE: NOT TO SCALE)

APPROVED BY:

Suhail Kanwar — CITY ENGINEER
Khang Nguyen — CITY TRAFFIC ENGINEER
Carol Haddock — DIRECTOR OF HPW

EFF DATE: NOV-27-2023 | DWG NO: 02893-03

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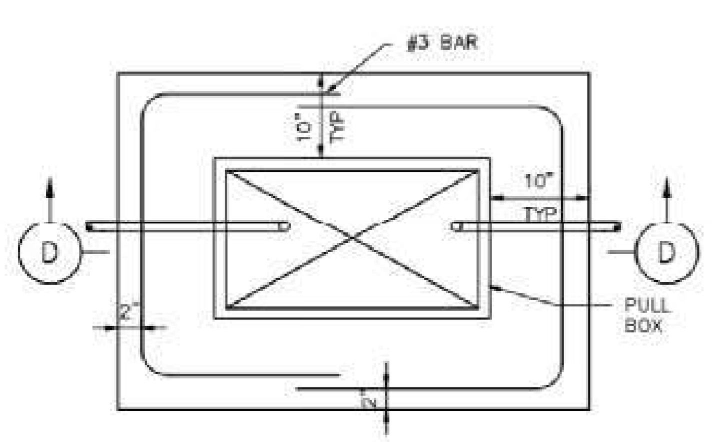
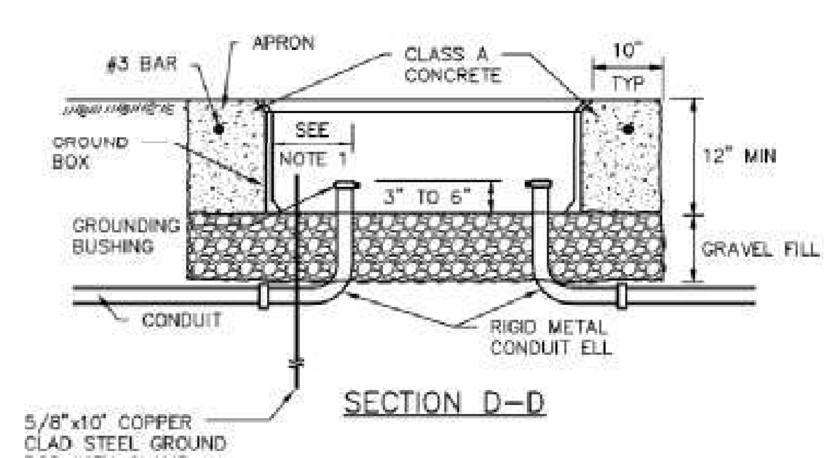


PLAN VIEW

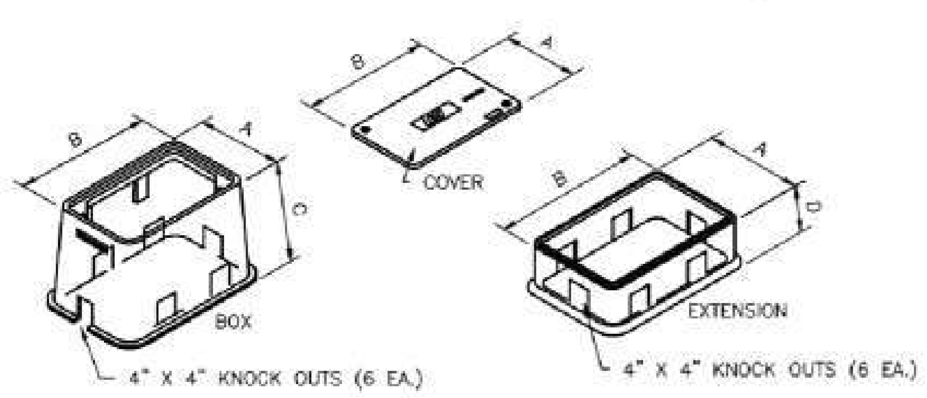


SECTION D-D

APRON FOR PULL BOXES

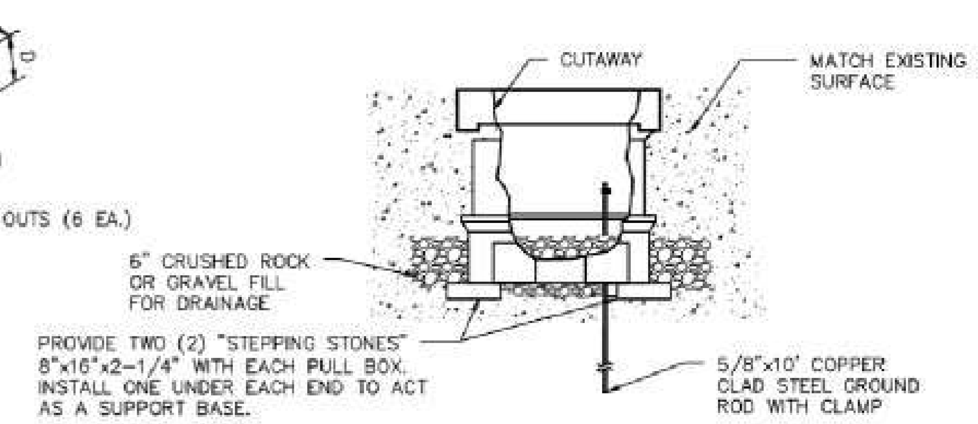
NOTES:

1. FINAL POSITION OF END OF CONDUIT SHALL NOT EXCEED ONE-HALF THE DISTANCE TO THE SIDE OF BOX OPPOSITE THE CONDUIT ENTRY.
2. PLACE GRAVEL "UNDER" THE BOX, NOT "IN" THE BOX. GRAVEL SHOULD NOT ENCROACH ON THE INTERIOR VOLUME OF THE BOX.
3. INSTALL BUSHING ON THE UPPER END OF ALL ELLS.
4. PROVIDE A 5/8" GROUND ROD IN ALL PULL BOXES AND CONNECT IT TO ANY AND ALL EQUIPMENT GROUNDING CONDUCTORS USING A LISTED CONNECTOR.
5. MAINTAIN SUFFICIENT SPACE BETWEEN ALL CONDUITS SO AS TO ALLOW FOR PROPER INSTALLATION OF BUSHINGS.
6. ALL CONDUITS SHALL BE INSTALLED IN A NEAT AND WORKMANLIKE MANNER.
7. ALL CONDUITS INSTALLED IN THE GROUND BOX SHALL BE SEALED AFTER COMPLETION OF CONDUCTOR INSTALLATION AND ANY REQUIRED PULL TESTS. SILICONE SHALL NOT BE USED AS THE SEALANT.



NOMINAL DIMENSIONS FOR TRAFFIC SIGNAL PULL BOXES

TYPE	A	B	C	D
DETECTOR TYPE A	13"	18"	24"	12"
TRAFFIC SIGNAL TYPE B	17"	30"	24"	12"
COMMUNICATION TYPE C	26"	38"	24"	12"



SIDE VIEW
ELECTRICAL PULL BOX ASSEMBLY

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

PULL BOXES

(SCALE: NOT TO SCALE)

APPROVED BY:

Suhail Kanwar — CITY ENGINEER
Khang Nguyen — CITY TRAFFIC ENGINEER
Carol Haddock — DIRECTOR OF HPW

EFF DATE: NOV-27-2023 | DWG NO: 16710-01

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY TRAFFIC SIGNAL MISCELLANEOUS DETAILS

SHEET 03 OF 04

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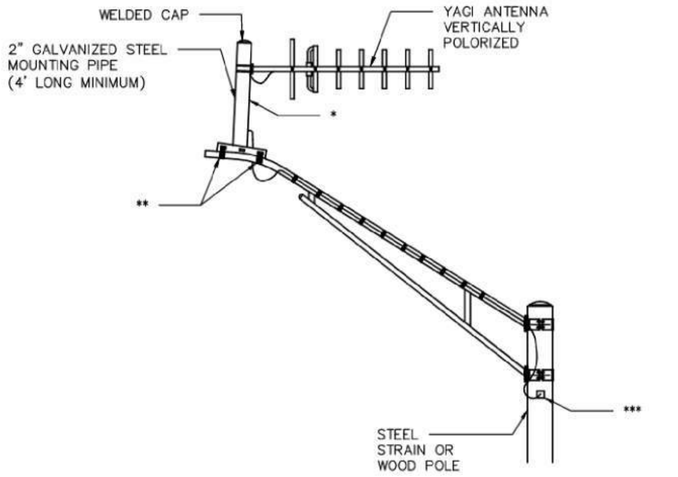
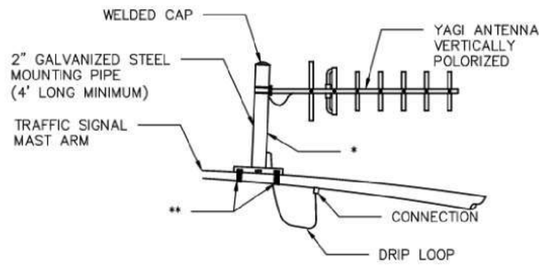


LUMINAIRE ARM MOUNT

* 4.0' PIPE EXTENSION WHEN MOUNTED ON TRAFFIC SIGNAL MAST ARM OR LUMINAIRE ARM.

** 5/8" (MIN.) STAINLESS STEEL BANDING 2 PLACES MIN.

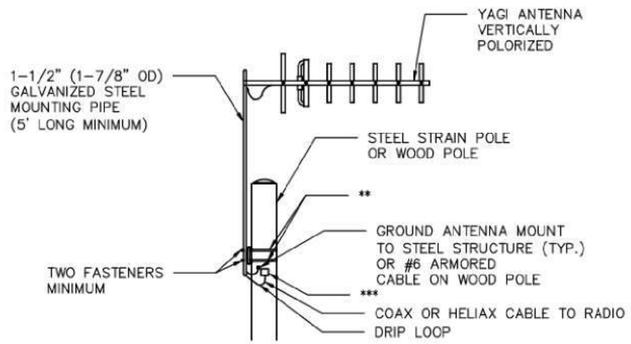
*** ENTRY INTO STEEL POLE OR CONDUIT WEATHERHEAD ON WOOD POLE



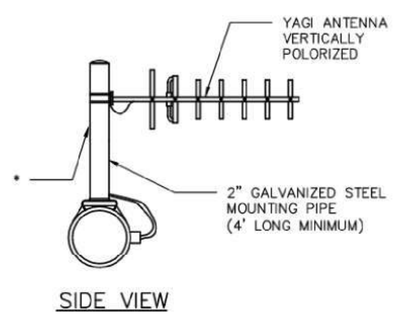
MAST ARM MOUNT

NOTES:

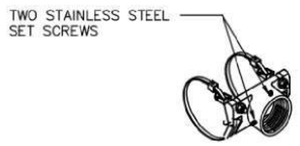
1. MOUNT ANTENNAS TO PROVIDE THE HIGHEST LEVEL OF RELIABILITY BETWEEN SENDING AND RECEIVING UNITS.
2. PERFORM A PATH STUDY TO DETERMINE EXACT MOUNTING LOCATION OF ANTENNAS BY RADIO SUPPLIER.
3. INSTALL ANTENNAS AS DETAILED OR AS DIRECTED BY THE SPREAD SPECTRUM RADIO SUPPLIER.
4. FURNISH MOUNTING BRACKETS FOR ANTENNAS ATTACHED TO VERTICAL PIPE AS RECOMMENDED BY SPREAD SPECTRUM RADIO SUPPLIER.
5. UNLESS NOTED, USE 5/8" STAINLESS STEEL BANDING MATERIAL TO INSTALL ANTENNA MOUNTS.
6. PROVIDE WATER TIGHT CABLE ENTRY AND EXIT POINTS IN THE TRAFFIC SIGNAL MAST ARM AND/OR POLES.
7. FOR SPREAD SPECTRUM COAX OR HELIAX CABLE ATTACHED TO LUMINAIRE ARM, PROVIDE UV STABILIZED TIE-WRAP THAT IS APPROVED FOR OUTDOOR USE.



POLE MOUNT



SIDE VIEW



BAND MOUNT BRACKET DETAIL

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

ANTENNA MOUNTING DETAILS

(SCALE: NOT TO SCALE)

APPROVED BY:

DocuSigned by: Sukait Kanvar 9EF880C641C5478...
CITY ENGINEER

DocuSigned by: KHANG NGUYEN 95A29EFDA7584CD...
CITY TRAFFIC ENGINEER

DocuSigned by: Carol Haddock A83C410872B3453...
DIRECTOR OF HPW

EFF DATE: NOV-27-2023 | DWG NO: 16738-01

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591

TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

THESE PLANS ARE PRELIMINARY AND ARE BEING ISSUED FOR REVIEW BY PUBLIC AGENCIES AND OTHER PRELIMINARY PURPOSES. WHEN ISSUED IN FINAL FORM THEY WILL BE SEALED, SIGNED, AND DATED BY THE RESPONSIBLE ENGINEER.

RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

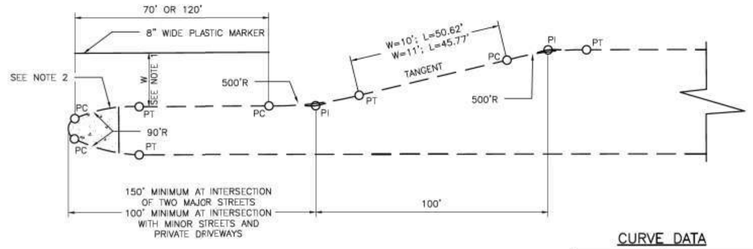
CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY
TRAFFIC SIGNAL
MISCELLANEOUS DETAILS

SHEET 04 OF 04

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NOT TO SCALE	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 267 OF 278	

10/23/2025
...\FINAL STD SHEET 13.dgn
Jacksons



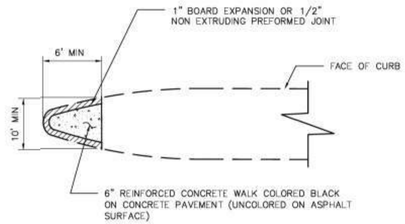
DETAIL OF LEFT TURN LANE

CURVE DATA

W=10' R=500' Δ = 5°42'38.14" L = 49.83' T=24.94'	W=11' R=500' Δ = 6°16'38.27" L = 54.78' T=27.42'

NOTES:

1. 10 FT FOR 80 FT ROW; 11 FT FOR 100 FT ROW.
2. FOR MEDIANS WITH BULLET NOSE CONFIGURATION, PAINT CURB WITH YELLOW REFLECTORIZED PAINT AROUND THE ESPLANADE NOSE TO THE PT OF THE 90 FT R. FOR MEDIANS WITHOUT BULLET NOSE CONFIGURATION, PAINT CURB FROM PC TO PT AND 30 FT BACK OF PC/PT.



ESPLANADE NOSE

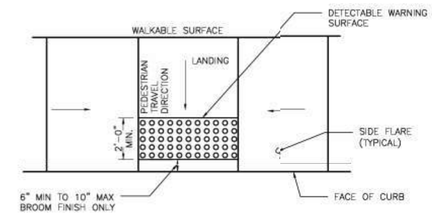
CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

ESPLANADE NOSE AND LEFT TURN DETAILS
(SCALE: NOT TO SCALE)

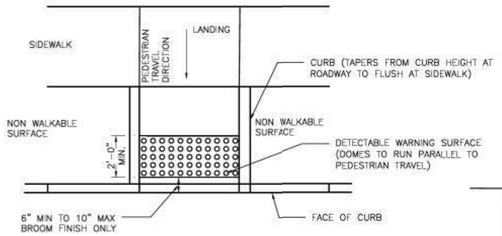
APPROVED BY:

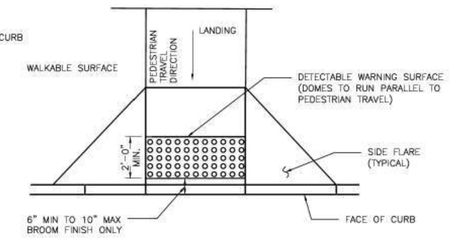
Docusigned by: Salad Kaiwar — CITY ENGINEER
Docusigned by: Carl Haddock — DIRECTOR OF HPW
Docusigned by: LHANG NGUYEN — CITY TRAFFIC ENGINEER

EFF DATE: NOV-27-2023 | DWG NO: 02772-01



TYPICAL PLACEMENT OF DETECTABLE WARNING SURFACE ON LANDING AT STREET EDGE





TYPICAL PLACEMENT OF DETECTABLE WARNING SURFACE ON SLOPING RAMP RUN

GENERAL NOTES FOR DETECTABLE WARNINGS:

1. DETECTABLE WARNING SURFACES MUST BE FULLY ADA COMPLIANT.
2. ALL NEW CURB RAMPS MUST CONTAIN A DETECTABLE WARNING SURFACE THAT CONSISTS OF RAISED TRUNCATED DOMES. THE SURFACE MUST CONTRAST VISUALLY WITH ADJOINING SURFACE, INCLUDING SIDE FLARES. FURNISH DARK BROWN OR DARK RED DETECTABLE WARNING SURFACE ADJACENT TO UNCOLORED CONCRETE, UNLESS SPECIFIED ELSEWHERE IN THE PLANS.
3. DETECTABLE WARNING SURFACES MUST MAINTAIN A SLIP RESISTANCE WITH FA-VALUE OF EQUAL TO OR GREATER THAN 0.8.
4. DETECTABLE WARNING SURFACES MUST MAINTAIN A WATER ABSORPTION RATE OF LESS THAN 1%. DETECTABLE WARNING SHALL NOT ALLOW WATER TO ACCUMULATE.
5. DETECTABLE WARNINGS INSTALLED INTO FRESH CONCRETE SHALL BE WITHOUT VOIDS AND UTILIZING AN ACCEPTABLE ANCHORING SYSTEM.
6. ALIGN TRUNCATED DOMES IN THE DIRECTION OF PEDESTRIAN TRAVEL WHEN ENTERING THE STREET.
7. DETECTABLE WARNING SURFACES SHALL BE A MINIMUM OF 24" IN DEPTH IN THE DIRECTION OF PEDESTRIAN TRAVEL, AND EXTEND THE FULL WIDTH OF THE CURB RAMP OR LANDING WHERE THE PEDESTRIAN ACCESS ROUTE ENTERS THE STREET.
8. DETECTABLE WARNING SURFACES SHALL BE LOCATED SO THAT THE EDGE NEAREST THE CURB LINE IS 6" MIN TO 10" MAX FROM THE DETECTABLE WARNING SURFACES MAY BE CURVED ALONG THE CORNER RADIUS.
9. ALL RAMPS AND SIDEWALKS/WALKWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOUSTON PUBLIC WORKS STANDARDS, TEXAS ACCESSIBILITY STANDARDS (TAS) AND AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS. IF THERE IS A CONFLICT IN THE REQUIREMENTS, THE STRICTEST REQUIREMENT'S SHALL GOVERN.
10. CURB RAMPS THAT ARE STEEPER THAN A 1:12 MAX SLOPE WILL NOT BE ACCEPTED BY THE CITY OF HOUSTON.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

DETECTABLE WARNING CURB RAMP DETAILS
(SCALE: NOT TO SCALE)

APPROVED BY:

Docusigned by: Salad Kaiwar — CITY ENGINEER
Docusigned by: Carl Haddock — DIRECTOR OF HPW
Docusigned by: LHANG NGUYEN — CITY TRAFFIC ENGINEER

EFF DATE: NOV-27-2023 | DWG NO: 02775-06

IDCUS
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(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

PAVING DETAILS
COH STANDARDS

SHEET 1 OF 7

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NTS	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 268 OF 278	

Asset E
10/23/2025
ESPLANADE NOSE AND LEFT TURN DETAILS & DETACHABLE WARNING CURB RAMP DETAILS.dgn

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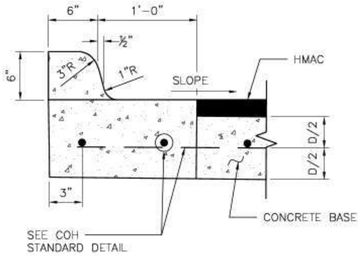
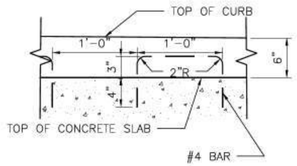
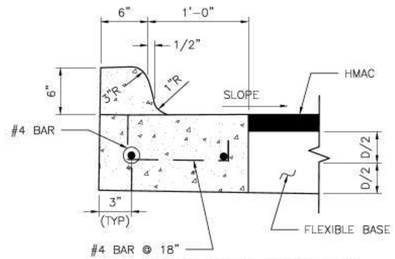
DISCLAIMER:
THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. THE DESIGN REQUIREMENTS ON THIS STANDARD DO NOT PURPORT TO ADDRESS ALL OF THE SAFETY CONCERNS ASSOCIATED WITH THEIR USE. THE ENGINEER OF RECORD (EOR) IS TO REVIEW THESE DESIGN REQUIREMENTS AND BY AUTHORIZING THEIR USE, ACCEPTS RESPONSIBILITY FOR THEIR APPLICABILITY, ADEQUACY AND SAFETY. NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER. THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.



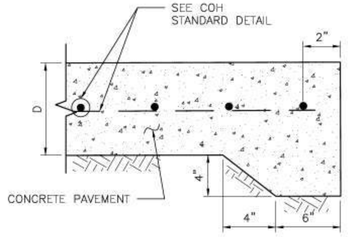
ESPLANADE CURB CONNECTED TO CONCRETE BASE



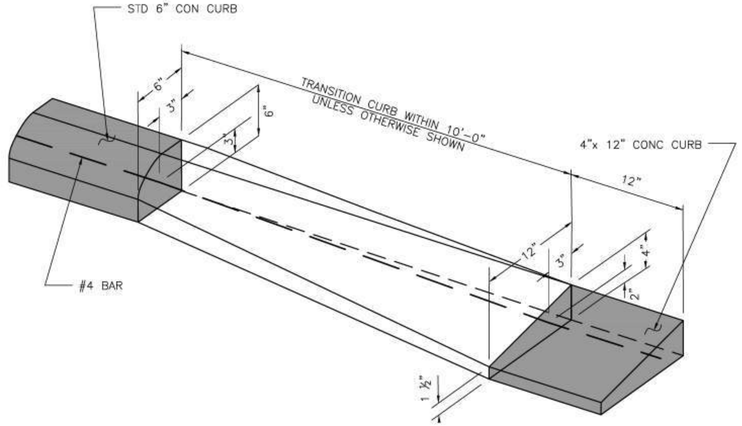
ALTERNATE CONCRETE CURB REINFORCEMENT



ESPLANADE CURB CONNECTED TO FLEXIBLE BASE

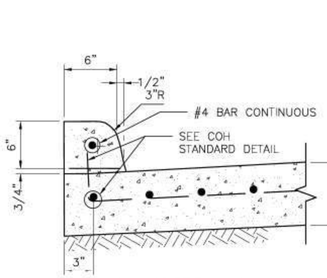


STANDARD CONCRETE PAVING HEADER



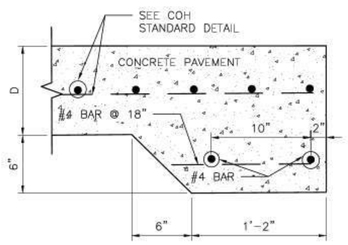
CURB TRANSITION

(SEE NOTES)

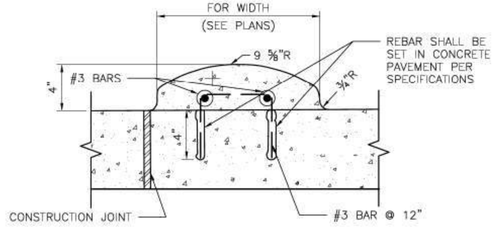


CONCRETE CURB

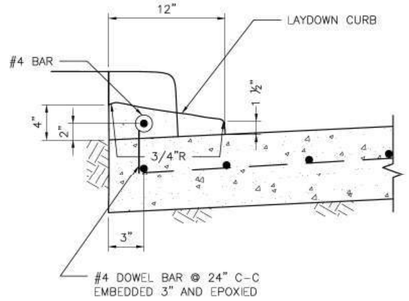
WHEN CONCRETE CURB IS TO BE PLACED EXISTING CONCRETE USE BASE
#4 BAR @ 18x10" LONG, DOWELED AND SET IN EPOXY GROUT.
SET #4 DOWEL BARS, 25" LONG AT 12" C-C WHEN PAVEMENT SECTION POURED.



STANDARD RAILROAD HEADER

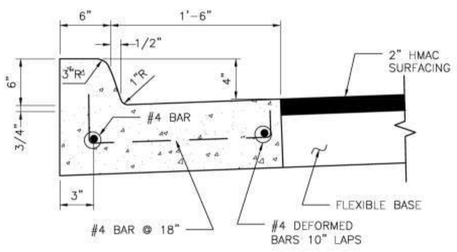


MOUNTABLE CURB

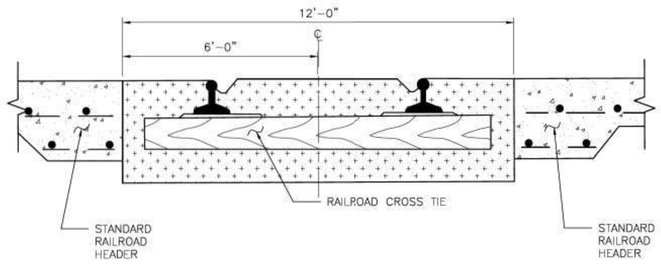


4-INCH x 12-INCH TRANSITION CURB

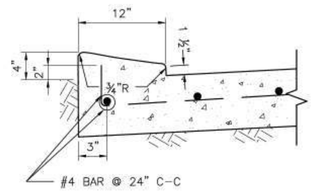
(SEE NOTES)



MONOLITHIC CURB AND GUTTER



STANDARD RAILROAD CROSSING – SINGLE TRACK



4-INCH x 12-INCH MONOLITHIC CURB

(SEE NOTES)

4"x12" MONOLITHIC AND TRANSITION CURB NOTES:

1. 6-INCH CONCRETE CURB TO BE CONSTRUCTED ON ALL ESPLANADES, ISLANDS, NON-RESIDENTIAL STREETS, AND RESIDENTIAL STREETS.
2. TRANSITIONS FROM 6- INCH CONCRETE CURB TO 4-INCH x 12-INCH CONCRETE CURB TO BE ACCOMPLISHED WITHIN 10 FEET, UNLESS OTHERWISE SHOWN. IF THIS 10-FEET TRANSITION CURB IS NOT POURED MONOLITHICALLY WITH THE PAVEMENT, THEN REINFORCING STEEL AS SHOWN IN "4-INCH x 12-INCH TRANSITION CURB" IS TO BE INSTALLED.

APPROVED BY:	APPROVED BY:
DocuSigned by: Sukut Kanwar 9EF5B0C8497547B...	DocuSigned by: HANG NGUYEN 95A23EF0A758400...
CITY ENGINEER	CITY TRAFFIC ENGINEER

APPROVED BY:
DocuSigned by: Carl Haddock A2DC4105B12B4A3...
DIRECTOR OF HOUSTON PUBLIC WORKS

EFF DATE: NOV-27-2023 | DWG NO: 02771-01

IDC
Planners-Engineers-Program Managers
11111 Wilcrest Green, Suite 250
Houston, Texas 77042
(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

CURB, CURB AND GUTTER AND HEADER DETAILS

SHEET 2 OF 7

WDS NUMBER	FOR CITY OF HOUSTON USE ONLY
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DRAWING SCALE	
NTS	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 269 OF 278	

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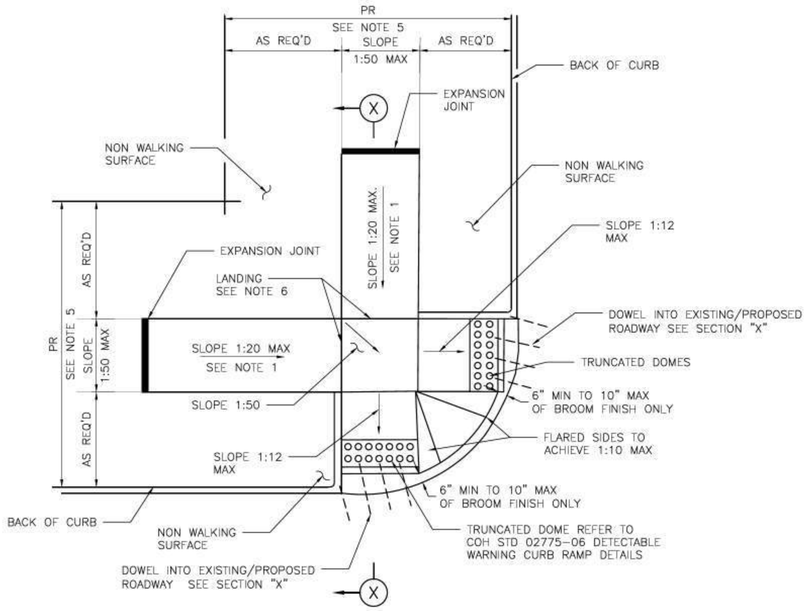
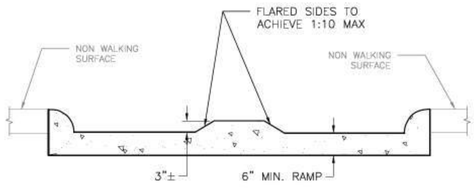
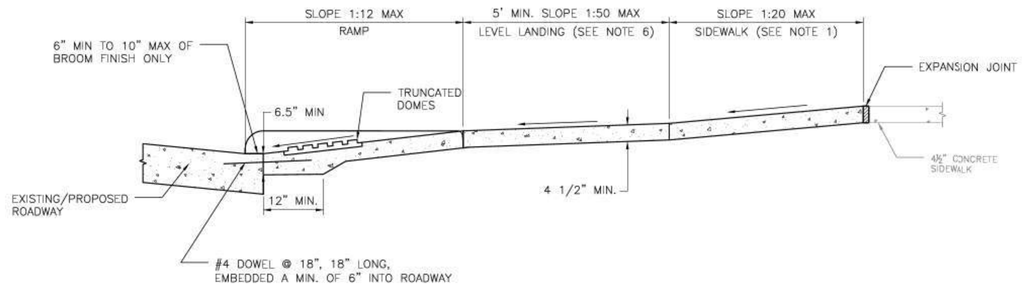


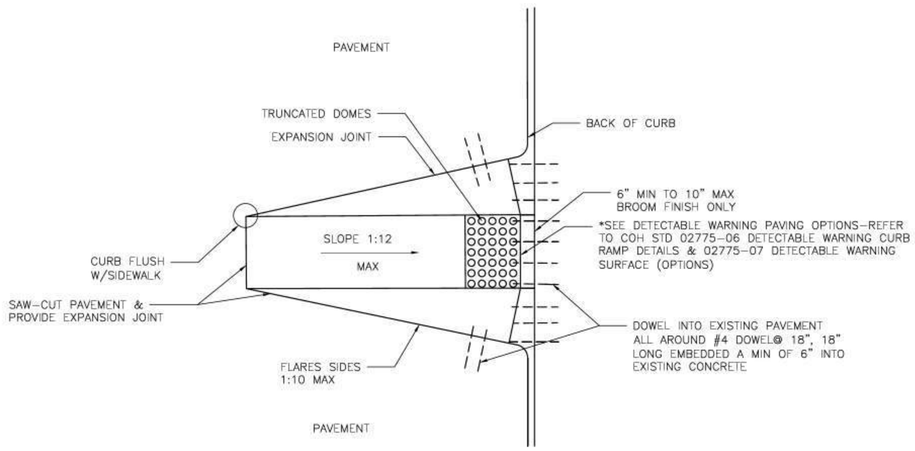
STREETS WITH NON– WALKING SURFACE BEHIND CURB
SEE NOTE–7



ELEVATION
LOOKING UP RAMP



SECTION X–X



CURB RAMP CONSTRUCTION FOR EXISTING PAVEMENT

NOTES:

1. REPLACE EXISTING SIDEWALK FROM LEVEL LANDING AS NECESSARY TO ACHIEVE 1:20 SLOPE
2. BROOM FINISH IS MEASURED FROM FACE OF CURB.
3. ALL RAMPS AND SIDEWALKS/WALKWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOUSTON PUBLIC WORKS STANDARDS, TEXAS ACCESSIBILITY STANDARDS (TAS) AND AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS. IF THERE IS A CONFLICT IN THE REQUIREMENTS, THE STRICTEST REQUIREMENTS SHALL GOVERN.
4. CURB RAMPS THAT ARE STEEPER THAN A 1:12 MAX SLOPE WILL NOT BE ACCEPTED BY THE CITY OF HOUSTON UNLESS NOTED OTHERWISE.
5. REFER TO CONTRACT DRAWINGS FOR PEDESTRIAN REALM (PR) WIDTH.
6. MINIMUM 5'x5' LANDING PAD ACCORDING TO ADA REQUIREMENTS. WHEN THE APPROACHING SIDEWALK IS WIDER THAN 5', THE LANDING PAD AND RAMP WIDTH MUST MATCH THE SIDEWALK WIDTH.
7. FOR STREETS WITH WALKABLE SURFACES IMMEDIATELY BEHIND THE CURB A FLARE IS REQUIRED ON BOTH SIDES OF THE RAMP.

APPROVED BY:	APPROVED BY:
Docusigned by: Suhail Kanwar 2EF2B0C3417547B...	Docusigned by: KHANG NGUYEN 05A23EF0A718400...
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY: Docusigned by: Carl Haddock A93C4158572B2A3...	
DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV–27–2023	DWG NO: 02775–02

IDC
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SURVEYED BY: KUO
FB NO. P-6325

RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

TYPICAL CURB RAMP DETAILS

SHEET 3 OF 7

WDS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NTS	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 270 OF 278	

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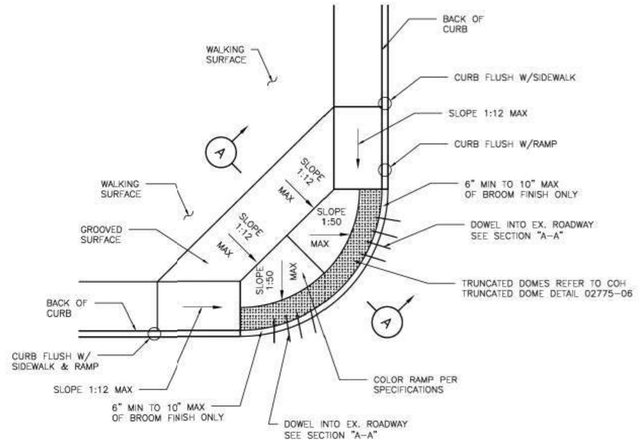
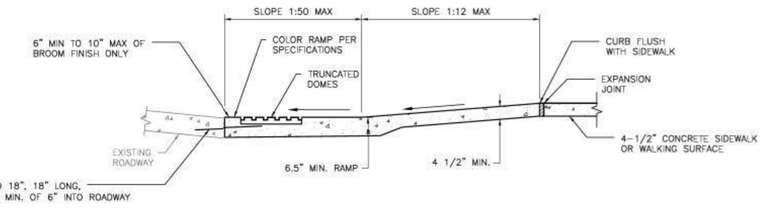


PLAN



SECTION A-A

NOTES:

1. ALL RAMPS AND SIDEWALKS/WALKWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOUSTON PUBLIC WORKS STANDARDS, TEXAS ACCESSIBILITY STANDARDS (TAS) AND AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS. IF THERE IS A CONFLICT IN THE REQUIREMENTS, THE STRICTEST REQUIREMENTS SHALL GOVERN.
2. CURB RAMPS THAT ARE STEEPER THAN A 1:12 MAX SLOPE WILL NOT BE ACCEPTED BY THE CITY OF HOUSTON.
3. THIS STANDARD DETAIL SHALL BE USED ONLY IF THE ROADWAY GEOMETRIC DOESN'T ALLOW STANDARD DETAILS 02775-02, 02775-03, AND 02775-09 TO BE USED.
4. THIS STANDARD DETAIL SHALL NOT BE USED IN LIEU OF STANDARD DETAILS 02775-02, 02775-03, AND 02775-09 UNLESS APPROVED BY THE CITY.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

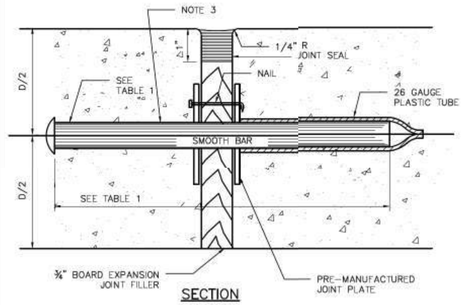
COMMERCIAL & HIGH DENSITY CONDITIONS CURB RAMP DETAILS

(SCALE: NOT TO SCALE)

APPROVED BY:

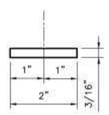
DocuSigned by: Sukut Kanwar — CITY ENGINEER
DocuSigned by: HUNG NGUYEN — CITY TRAFFIC ENGINEER
DocuSigned by: Carl Haddock — DIRECTOR OF HPW

EFF DATE: NOV-27-2023 | DWG NO: 02775-05



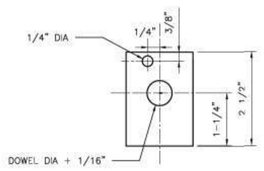
SECTION

DOWEL TYPE EXPANSION JOINT



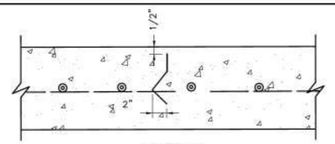
PLAN VIEW

JOINT PLATE



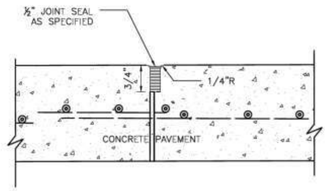
ELEVATION VIEW

JOINT PLATE



SECTION

DEFORMED METAL STRIP



SECTION

CONSTRUCTION JOINT SEAL

TABLE 1

PAVEMENT THICKNESS (IN)	DOWEL SIZES AND SPACINGS		
	DIAMETER (IN)	LENGTH (IN)	SPACING (IN)
6	3/4	18	12
7	1	18	12
8	1	18	12
9	1 1/4	18	12
10	1 1/4	18	12
11	1 1/4	18	12
12	1 1/4	18	12

NOTES:

1. STEEL TO MEET ASTM STANDARD SPECIFICATIONS FOR CONCRETE REINFORCING BARS. UNITS TO BE SPACED 12" CENTER ON CENTER.
2. EXPANSION JOINT TO BE PLACED AT THE END OF EACH CURB RADIUS.
3. CENTER DOWEL HORIZONTALLY ON JOINT.
4. CENTER DOWEL VERTICALLY IN CONCRETE BASE. EXTEND THICKENED CONCRETE AS NEEDED TO MAINTAIN 3" MIN COVER.
5. CITY OF HOUSTON APPROVED PRODUCTS MAY BE USED AS JOINT PLATE ALTERNATIVE.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

PAVEMENT EXPANSION AND CONSTRUCTION JOINT DETAILS

(SCALE: NOT TO SCALE)

APPROVED BY:

DocuSigned by: Sukut Kanwar — CITY ENGINEER
DocuSigned by: HUNG NGUYEN — CITY TRAFFIC ENGINEER
DocuSigned by: Carl Haddock — DIRECTOR OF HPW

EFF DATE: NOV-27-2023 | DWG NO: 02752-01

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(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

PAVING DETAILS
COH STANDARDS

SHEET 4 OF 7

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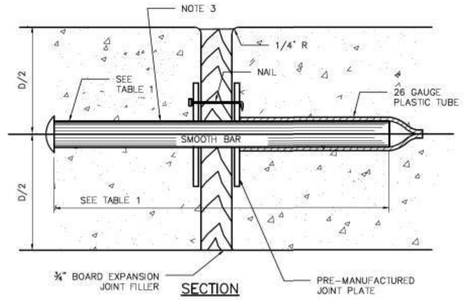
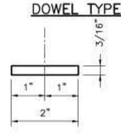
SHEET NO. 271 OF 278	

Asset E
10/23/2025
COMMERCIAL & HIGH DENSITY CONDITIONS CURB RAMP DETAILS & PAVEMENT EXPANSION AND CONSTRUCTION JOINT DETAILS
COMMERCIAL & HIGH DENSITY CONDITIONS CURB RAMP DETAILS & PAVEMENT EXPANSION AND CONSTRUCTION JOINT DETAILS.dgn



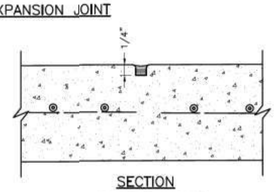
SECTION

DOWEL TYPE EXPANSION JOINT



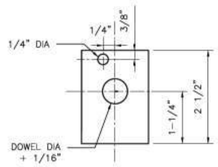
PLAN VIEW

JOINT PLATE



SECTION

CONTROL JOINT

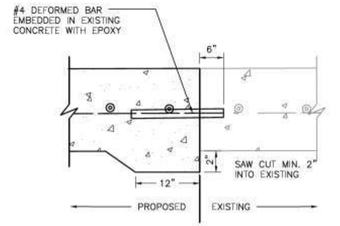


ELEVATION VIEW

JOINT PLATE

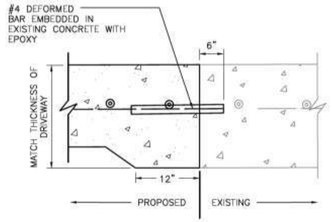
TABLE 1

PAVEMENT THICKNESS (IN)	DOWEL SIZES AND SPACINGS		
	DIAMETER (IN)	LENGTH (IN)	SPACING (IN)
4 1/2	1/2	18	12
5	1/2	18	12
6	3/4	18	12
7	1	18	12



SECTION

SIDEWALK TO EXISTING SIDEWALK



SECTION

SIDEWALK TO EXISTING DRIVEWAY

NOTES:

1. STEEL TO MEET ASTM STANDARD SPECIFICATIONS FOR CONCRETE REINFORCING BARS.
2. EXPANSION JOINT TO BE PLACED AT THE END OF EACH CURB RADIUS AND SPACED AT A MAXIMUM DISTANCE OF 3 FEET MAXIMUM SPACING FOR CONTROL JOINTS SHALL BE 5 FEET.
3. CENTER DOWEL HORIZONTALLY ON JOINT.
4. CENTER DOWEL VERTICALLY IN CONCRETE AS NEEDED TO MAINTAIN A 2 INCH MINIMUM COVER.

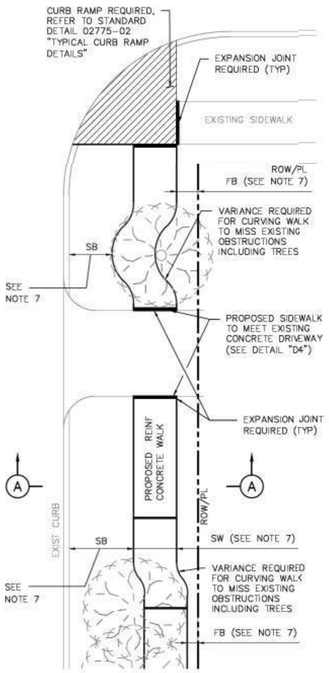
CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

SIDEWALK EXPANSION AND CONSTRUCTION JOINT DETAILS
(SCALE: NOT TO SCALE)

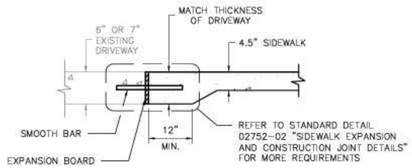
APPROVED BY:

Docusigned by: Sukul Kanwar — CITY ENGINEER
Docusigned by: Carl Haddock — DIRECTOR OF HPW
Docusigned by: KHANG NGUYEN — CITY TRAFFIC ENGINEER

EFF DATE: NOV-27-2023 | DWG NO: 02752-02



PLAN VIEW



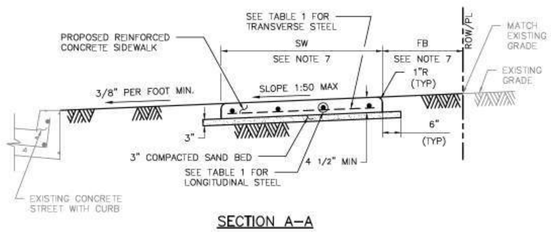
DETAIL D4

DRIVEWAY/SIDEWALK HEADER

TABLE 1

REINFORCING STEEL INFORMATION
FOR 4 ½ " THICK SIDEWALKS
EXPANSION JOINT SPACING = 40 FT
fc' = 3,500 PSI AND fy = 60,000 PSI
REFER TO CONTRACT DRAWINGS FOR SIDEWALKS WIDER THAN 6 FEET.

SIDEWALK THICKNESS (IN)	SIDEWALK WIDTH (FT)	LONGITUDINAL STEEL			TRANSVERSE STEEL #3 BARS SPACING (IN)
		#3 BARS			
		NO. OF BARS	SPACING (IN)	END BAR SPACING (IN)	
4.5	5	3	27	3	48
4.5	6	4	22	3	48



SECTION A-A

NOTES:

1. 6X6 – W2.9XW2.9 WELDED WIRE FABRIC MAY BE USED IN LIEU OF THE REINFORCING STEEL GIVEN IN TABLE 1.
2. REINFORCED CONCRETE SIDEWALKS THRU DRIVEWAYS OPENINGS SHALL BE EITHER 6" THICK OR 7" THICK AS SPECIFIED ON 6" STABILIZED SUBGRADE. FOR THE REINFORCING STEEL REQUIREMENTS, SEE CITY OF HOUSTON STANDARD DETAILS 02754-01A, 02754-01B, 02754-03, AND 02754-04.
3. MAXIMUM SPACING FOR EXPANSION JOINTS SHALL BE 40 FEET.
4. CONTRACTOR SHALL CONSTRUCT SIDEWALK IN A MANNER NOT TO BLOCK THE NATURAL DRAINAGE FROM ADJACENT PROPERTY.
5. ALL RAMPS AND SIDEWALKS/WALKWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOUSTON PUBLIC WORKS STANDARDS, TEXAS ACCESSIBILITY STANDARDS (TAS) AND AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS. IF THERE IS A CONFLICT IN THE REQUIREMENTS, THE STRICTEST REQUIREMENTS SHALL GOVERN.
6. CURB RAMPS THAT ARE STEEPER THAN A 1:12 MAX SLOPE WILL NOT BE ACCEPTED BY THE CITY OF HOUSTON UNLESS NOTED OTHERWISE.
7. REFER TO CONTRACT DRAWINGS FOR SIDEWALK (SW), FRONTAGE BUFFER (FB), AND SAFETY BUFFER (SB) WIDTHS.

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

TYPICAL SIDEWALK LAYOUT AND DETAILS FOR STREETS WITH CURBS
(SCALE: NOT TO SCALE)

APPROVED BY:

Docusigned by: Sukul Kanwar — CITY ENGINEER
Docusigned by: Carl Haddock — DIRECTOR OF HPW
Docusigned by: KHANG NGUYEN — CITY TRAFFIC ENGINEER

EFF DATE: NOV-27-2023 | DWG NO: 02775-01

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RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

PAVING DETAILS
COH STANDARDS

SHEET 5 OF 7

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SHEET NO. 272 OF 278	

10/23/2025
SIDEWALK EXPANSION AND CONSTRUCTION JOINT DETAILS & TYPICAL SIDEWALK LAYOUT AND DETAILS FOR STREETS WITH CURBS
Asset E
SIDEWALK EXPANSION AND CONSTRUCTION JOINT DETAILS & TYPICAL SIDEWALK LAYOUT AND DETAILS FOR STREETS WITH CURBS.dgn

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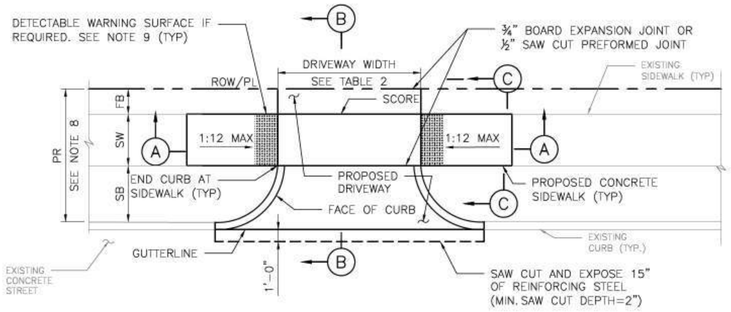
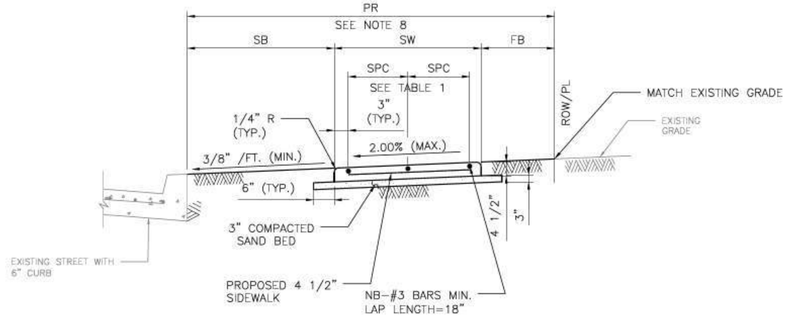
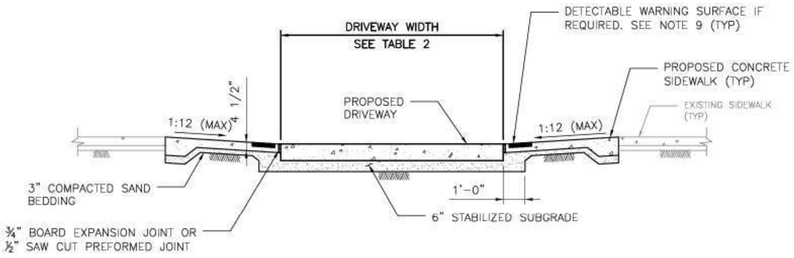


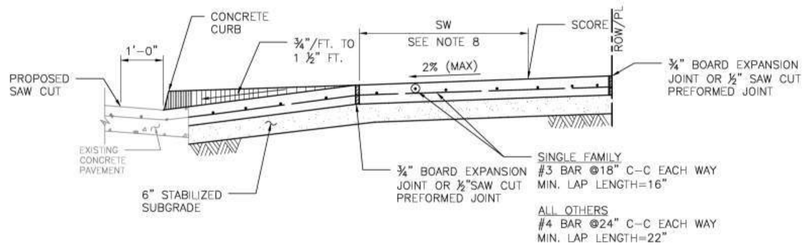
PLAN VIEW
DRIVEWAY



SECTION C–C
TYPICAL SIDEWALK SECTION



SECTION A–A
PROPOSED SIDEWALK THROUGH DRIVEWAY
WITH EXCESSIVE ELEVATION DIFFERENCE
WITH EXISTING SIDEWALK



SECTION B–B
TYPICAL DRIVEWAY SECTION

NOTES:

1. REPAIR, RECONSTRUCTION OR REPLACEMENT OF SIDEWALKS SHALL MEET PERMITTING REQUIREMENTS OF CODE OF ORDINANCES SECTION 40–552.
2. FOR REPAIR, RECONSTRUCTION, OR REPLACEMENT OF EXISTING SIDEWALKS:
   - 2.1. EXISTING SIDEWALKS LESS THAN OR EQUAL TO 20 FEET IN TOTAL LENGTH:
     - 2.1.1. THE PROPOSED SIDEWALK WIDTH WILL BE ALLOWED TO MATCH THE EXISTING SIDEWALK.
   - 2.2. EXISTING SIDEWALKS GREATER THAN 20 FEET IN TOTAL LENGTH:
     - 2.2.1. THE SIDEWALK WIDTH FOR THE ENTIRE PROPERTY WIDTH SHALL BE IMPROVED TO MEET WIDTH REQUIREMENTS ACCORDING TO THE LATEST INFRASTRUCTURE DESIGN MANUAL.
   - 2.3. 20 FOOT TOTAL LENGTH IS DEFINED AS:
     - 2.3.1. UP TO 10 FEET ON BOTH SIDES OF THE DRIVEWAY; OR
     - 2.3.2. UP TO 20 FEET WHEN SIDEWALK AFFECTED IS LOCATED ONLY ON ONE SIDE OF THE DRIVEWAY.
3. ALL JOINTS ALONG THE SIDEWALK SHALL BE CONSTRUCTED ACCORDING TO DRAWING 02752–02 AND SPECIFICATION 02752.
4. DRIVEWAYS SHALL BE MINIMUM 6" THICK FOR SINGLE FAMILY AND DUPLEXES. DRIVEWAYS SHALL BE MINIMUM 7" THICK FOR ALL OTHERS (I.E. COMMERCIAL, INDUSTRIAL, ETC.)
5. DRIVEWAYS AND SIDEWALKS SHALL BE CONSTRUCTED WITH PORTLAND CEMENT CONCRETE AND INCLUDE 5 1/2 SACKS OF CEMENT PER CUBIC YARD OF CONCRETE.
6. ALL RAMPS AND SIDEWALKS/WALKWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH HOUSTON PUBLIC WORKS STANDARDS, TEXAS ACCESSIBILITY STANDARDS (TAS) AND AMERICANS WITH DISABILITIES ACT (ADA) REQUIREMENTS. IF THERE IS A CONFLICT IN THE REQUIREMENTS, THE STRICTEST REQUIREMENTS SHALL GOVERN.
7. CURB RAMPS THAT ARE STEEPER THAN A 1:12 MAX SLOPE WILL NOT BE ACCEPTED BY THE CITY OF HOUSTON.
8. REFER TO CONTRACT DRAWINGS FOR PEDESTRIAN REALM (PR), SIDEWALK (SW), FRONTAGE BUFFER (FB), AND SAFETY BUFFER (SB) WIDTHS.
9. DETECTABLE WARNING SURFACES:
   - 9.1. SIDEWALK SHALL HAVE A DETECTABLE WARNING SURFACE WHERE:
     - 9.1.1. SIDEWALK INTERSECTS TYPE C DRIVEWAYS (COMMERCIAL DRIVEWAYS) THAT ARE STOP, YIELD, OR TRAFFIC SIGNAL CONTROLLED; OR
     - 9.1.2. SIDEWALK SLOPE IS GREATER THAN 1:20 AND INTERSECTS A TYPE C DRIVEWAY (COMMERCIAL DRIVEWAY)
   - 9.2. DETECTABLE WARNING SURFACES ARE OPTIONAL WHERE SIDEWALKS INTERSECT TYPE A DRIVEWAYS (SINGLE FAMILY RESIDENTIAL HOUSES OR DUPLEXES) OR TYPE B DRIVEWAYS (SHARED ACCESS/SHARED DRIVEWAYS).
   - 9.3. REFER TO STANDARD DETAILS 02775–06 TO 02775–07 FOR DETECTABLE WARNING SURFACE STANDARDS.

TABLE 1

REINFORCING STEEL INFORMATION
FOR 4 ½ " THICK SIDEWALKS
EXPANSION JOINT SPACING = 40 FT
fc' = 3,500 PSI AND fy = 60,000 PSI
REFER TO CONTRACT DRAWINGS FOR SIDEWALKS WIDER THAN 6 FEET.

SIDEWALK THICKNESS (IN)	SIDEWALK WIDTH (FT)	LONGITUDINAL STEEL #3 BARS			TRANSVERSE STEEL #3 BARS SPACING (IN)
		NO. OF BARS "NB"	SPACING "SPC" (IN)	END BAR SPACING (IN)	
4.5	5	3	27	3	48
4.5	6	4	22	3	48

TABLE 2

DRIVEWAY DESIGN CRITERIA (1)(2)

TRAFFIC TYPE	TYPE A DRIVEWAY (FOR SINGLE FAMILY RESIDENTIAL HOUSES OR DUPLEXES)				TYPE B DRIVEWAY (SHARED ACCESS/SHARED DRIVEWAY)				TYPE C DRIVEWAY (COMMERCIAL DRIVEWAY)			
	WIDTH (FT)		RADIUS (FT)		WIDTH (FT)		RADIUS (FT)		WIDTH (FT)		RADIUS (FT)	
	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX	MIN	MAX
ONE–WAY	10	12	4	10	12(5)	16(5)	4(5)	10(5)	15	20	10	20
TWO–WAY	10(3)	24(4)	4	10	16(6)	24	4	10	24	35	10	20

(1) REFER TO INFRASTRUCTURE DESIGN MANUAL ARTICLE 15.2.07.C.1.F FOR DRIVEWAYS THAT REQUIRE A VEHICLE SWEPT PATH ANALYSIS.
(2) REFER TO INFRASTRUCTURE DESIGN MANUAL ARTCILES 15.2.07.C.1.G.(1) AND 15.2.07.C.1.G.(2) FOR TYPE 1 PAE AND TYPE 2 PAE REQUIREMENTS.
(3) THE MINIMUM WIDTH FOR JOINT ACCESS DRIVEWAY IS 12 FT.
(4) REFER TO CHAPTER 42 OF THE CODE OF ORDINANCES FOR DRIVEWAY WIDTHS FOR NARROW LOTS.
(5) ONLY MURS AND COURTYARD STYLE DEVELOPMENTS ON CORNER LOTS CAN HAVE ONE–WAY DRIVEWAYS.
(6) REFER TO CHAPTER 42, SECTION 42–146 OF THE CODE OF ORDINANCES FOR EXCEPTIONS TO THE MINIMUM DRIVEWAY WIDTH FOR SHARED DRIVEWAYS.

DISCLAIMER:
THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. THE DESIGN REQUIREMENTS ON THIS STANDARD DO NOT PURPORT TO ADDRESS ALL OF THE SAFETY CONCERNS ASSOCIATED WITH THEIR USE. THE ENGINEER OF RECORD (EOR) IS TO REVIEW THESE DESIGN REQUIREMENTS AND BY AUTHORIZING THEIR USE, ACCEPTS RESPONSIBILITY FOR THEIR APPLICABILITY, ADEQUACY AND SAFETY; NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER. THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

APPROVED BY:	APPROVED BY:
DocuSigned by: Suhail Kanwar 8EFB80C841F5479...	DocuSigned by: HANG NGUYEN 95A28EFDA75B4CD...
CITY ENGINEER	CITY TRAFFIC ENGINEER
APPROVED BY: DocuSigned by: Carol Haddock A3DC415B7DB3452...	
DIRECTOR OF HOUSTON PUBLIC WORKS	
EFF DATE: NOV–27–2023	DWG NO: 02754–01B

IDC
Planners-Engineers-Program Managers
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SURVEYED BY: KUO
FB NO. P-6325

RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

DRIVEWAY DETAIL WITH 6" CURBED STREETS

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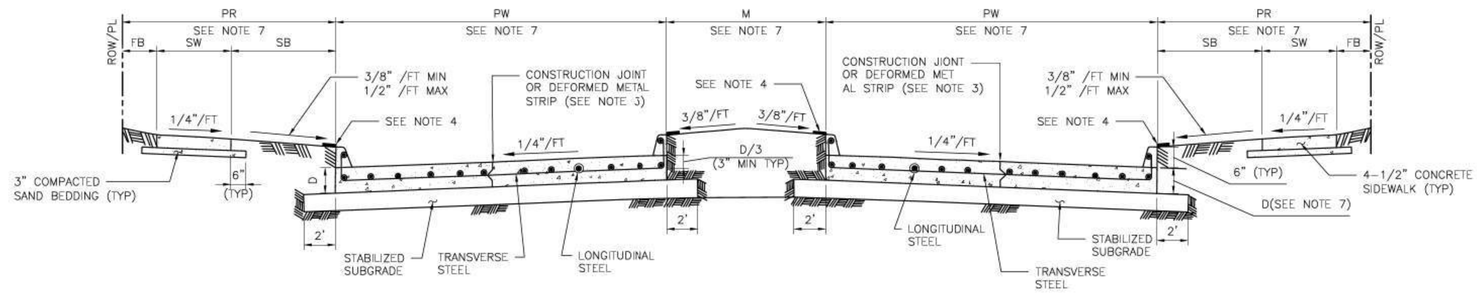
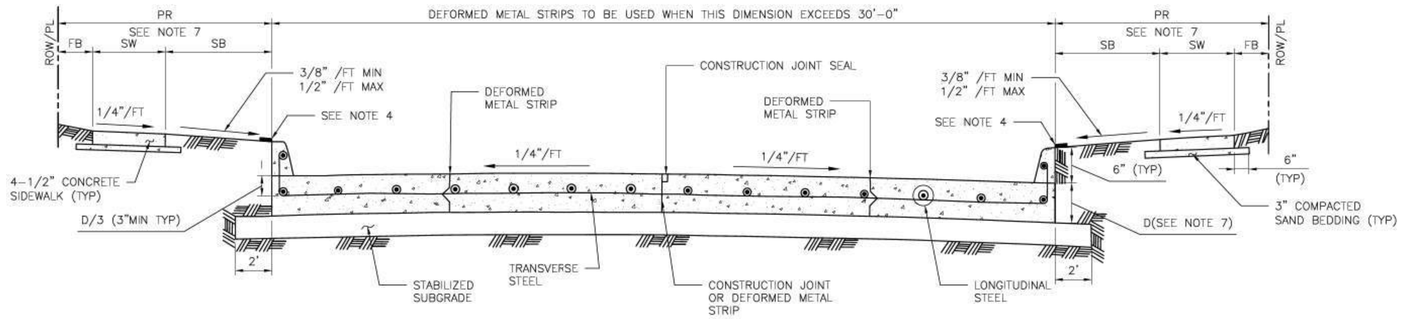


TYPICAL DOUBLE ROADWAY SECTION FOR CONCRETE PAVEMENT WITH CURBS



TYPICAL SINGLE ROADWAY SECTION FOR CONCRETE PAVEMENT WITH CURBS

TABLE 1

REINFORCING STEEL BAR SIZES AND SPACINGS FOR VARIOUS PAVEMENT THICKNESSES (D) WITH: MAXIMUM TRANSVERSE CONTROL JOINT SPACING = 20'-0"
MAXIMUM EXPANSION JOINT SPACING = 80'-0"
fc' = 4,000 PSI/28 DAYS AND FY = 60,000 PSI

PAVEMENT THICKNESS 'D' (IN)	PAVEMENT WIDTH 'PW' (FT)	LONGITUDINAL STEEL									TRAVERSE STEEL		
		#4 BARS			#5 BARS			#6 BARS			#4 BARS	#5 BARS	#6 BARS
		NUMBER OF BARS	SPACING (IN)	END BAR SPACING (IN)	NUMBER OF BARS	SPACING (IN)	END BAR SPACING (IN)	NUMBER OF BARS	SPACING (IN)	END BAR SPACING (IN)	SPACING (IN)	SPACING (IN)	SPACING (IN)
6	28	17	20.50	4.00	–	–	–	–	–	–	36	–	–
7	25	17	18.25	4.00	–	–	–	–	–	–	36	–	–
7	35	24	18.00	3.00	–	–	–	–	–	–	36	–	–
7	36	25	17.75	3.00	–	–	–	–	–	–	36	–	–
7	37	25	18.25	3.00	–	–	–	–	–	–	36	–	–
7	41	28	18.00	3.00	–	–	–	–	–	–	36	–	–
7	45	31	17.75	3.75	–	–	–	–	–	–	36	–	–
8	25	20	15.50	2.75	13	24.50	3.0	–	–	–	36	36	–
8	34	27	15.50	2.50	17	25.00	4.0	–	–	–	36	36	–
8	35	27	16.00	2.00	18	24.25	4.0	–	–	–	36	36	–
8	36	28	15.75	3.25	18	25.00	3.0	–	–	–	30	36	–
8	44	24	15.75	4.00	22	24.75	4.0	–	–	–	30	36	–
8	45	35	15.75	2.25	23	24.25	3.0	–	–	–	30	36	–
9	25	22	14.00	3.00	14	22.50	4.0	–	–	–	36	36	–
9	34	31	13.50	2.00	19	22.25	3.5	–	–	–	30	36	–
9	35	31	13.75	3.75	20	21.75	3.5	–	–	–	30	36	–
9	36	32	13.75	3.00	21	21.25	3.5	–	–	–	30	36	–
9	44	39	13.75	2.75	25	21.75	3.0	–	–	–	24	36	–
9	45	39	14.00	4.00	26	21.25	4.5	–	–	–	24	36	–
10	25	24	12.75	3.50	17	18.25	4.0	–	–	–	36	36	36
10	34	33	12.50	4.00	21	20.00	4.0	–	–	–	30	36	36
10	35	34	12.50	3.75	23	18.75	4.0	–	–	–	30	36	36
10	36	35	12.50	3.50	24	18.50	3.0	–	–	–	30	36	36
10	44	44	12.00	4.00	29	18.50	4.5	–	–	–	24	36	36
10	45	44	12.50	3.00	29	19.00	3.0	–	–	–	24	36	36
11	25	27	11.25	3.00	17	18.25	4.0	12	26.75	3	36	36	36
11	34	36	11.50	2.75	24	17.50	2.5	17	25.00	4	24	36	36
11	35	37	11.50	3.00	24	18.00	3.0	17	25.75	4	24	36	36
11	36	40	11.00	2.00	25	17.75	3.0	17	26.50	4	24	36	36
11	44	48	11.125	2.50	30	18.00	3.0	21	26.00	4	24	36	36
11	45	49	11.125	3.00	31	17.75	4.0	22	25.50	3	24	36	36
12	25	–	–	–	19	16.25	4.0	13	24.50	3	36	36	36
12	34	–	–	–	26	16.00	4.0	18	23.50	4	24	36	36
12	35	–	–	–	26	16.50	4.0	19	23.00	3	24	36	36
12	36	–	–	–	27	16.25	4.5	20	22.25	4.5	24	36	36
12	44	–	–	–	33	16.25	4.0	24	22.50	5	24	30	36
12	45	–	–	–	35	15.75	3.0	25	22.25	3	24	30	36

MINIMUM LAP LENGTH (L):
A. # 4 BARS ; L = 22 INCHES
B. # 5 BARS ; L = 27 INCHES
C. # 6 BARS ; L = 32 INCHES

NOTES:

1. THE MAXIMUM WIDTH BETWEEN LONGITUDINAL JOINTS SHALL NOT EXCEED 15'-0".
2. ALL EARTHEN AREAS ARE TO BE HYDROMULCHED UNLESS SHOWN OTHERWISE ON DRAWINGS.
3. CONTRACTOR MAY SAW CUT IN LIEU OF DEFORMED METAL STRIP.
4. USE STRIP OF SOD GRASS TO PREVENT EROSION UNTIL STAND OF GRASS IS ESTABLISHED.
5. AN EQUAL OR LARGER AREA OF WELDED REINFORCEMENT BAR CONFORMING TO ASTM A497, MAY BE SUBSTITUTED FOR REBARS LISTED IN TABLE 1.
6. IF AVAILABLE ROW IS NOT SUFFICIENT TO ACCOMMODATE SIDEWALK WIDTH (SW) ACCORDING TO IDM REQUIREMENTS, ENGINEER SHALL OBTAIN A VARIANCE FROM THE CITY ENGINEER.
7. REFER TO CONTRACT DRAWINGS FOR PAVEMENT WIDTH (PW) AND PAVEMENT THICKNESS (D), MEDIAN (M), PEDESTRIAN REALM (PR), SIDEWALK (SW), FRONTAGE BUFFER (FB), AND SAFETY BUFFER (SB) WIDTHS.

DISCLAIMER:
THE USE OF THIS STANDARD IS GOVERNED BY THE TEXAS ENGINEERING PRACTICE ACT. THE DESIGN REQUIREMENTS ON THIS STANDARD DO NOT PURPORT TO ADDRESS ALL OF THE SAFETY CONCERNS ASSOCIATED WITH THEIR USE. THE ENGINEER OF RECORD (EOR) IS TO REVIEW THESE DESIGN REQUIREMENTS AND BY AUTHORIZING THEIR USE, ACCEPTS RESPONSIBILITY FOR THEIR APPLICABILITY, ADEQUACY AND SAFETY. NO WARRANTY OF ANY KIND IS MADE BY THE CITY OF HOUSTON FOR ANY PURPOSES WHATSOEVER. THE CITY OF HOUSTON ASSUMES NO RESPONSIBILITY FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

APPROVED BY:	APPROVED BY:
DocuSigned by: Suhail Kanwar 9EF2B0C841F5478...	DocuSigned by: KHANG NGUYEN 05A23EFDA75B4CD...
CITY ENGINEER	CITY TRAFFIC ENGINEER

APPROVED BY:
DocuSigned by: Carol Haddock A8DC4158728D4C4...
DIRECTOR OF HOUSTON PUBLIC WORKS

EFF DATE: NOV-27-2023

DWG NO: 02751-01

IDC
Planners-Engineers-Program Managers
11111 Wilcrest Green, Suite 250
Houston, Texas 77042
(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

THESE PLANS ARE PRELIMINARY AND ARE BEING ISSUED FOR REVIEW BY PUBLIC AGENCIES AND OTHER PRELIMINARY PURPOSES. WHEN ISSUED IN FINAL FORM THEY WILL BE SEALED, SIGNED, AND DATED BY THE RESPONSIBLE ENGINEER.

RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO.113148 on 10/27/2025

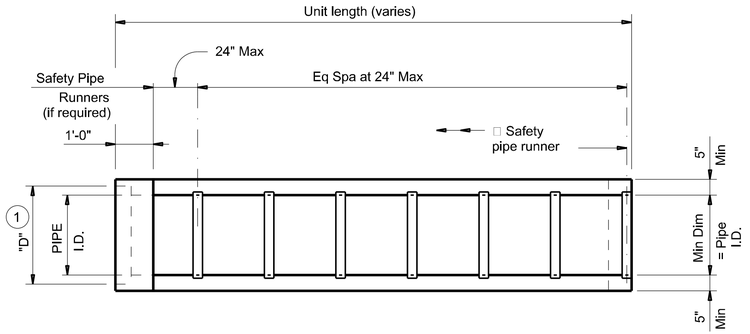
SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
HOUSTON PUBLIC WORKS STANDARD

CONCRETE PAVEMENT DETAILS

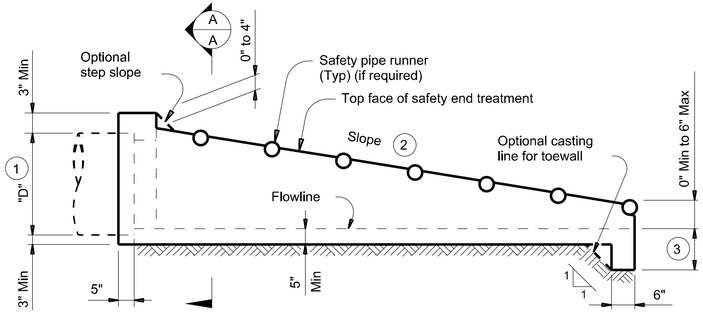
SHEET 7 OF 7

WDS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NTS	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 274 OF 278	



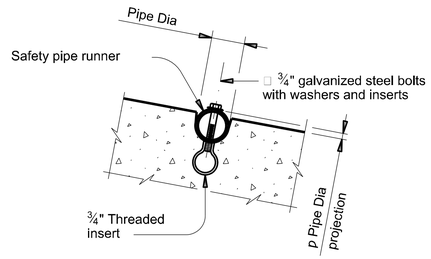
PLAN

(Showing bell end connection.)



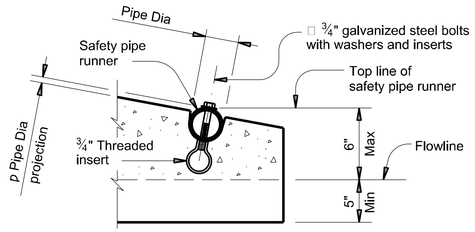
LONGITUDINAL ELEVATION

(Showing bell end connection.)

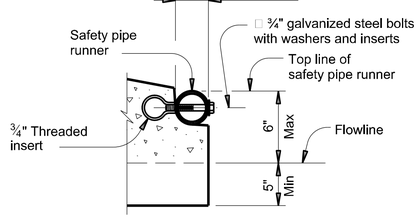


INSTALLATION DETAIL FOR SAFETY PIPE RUNNERS

(If required)



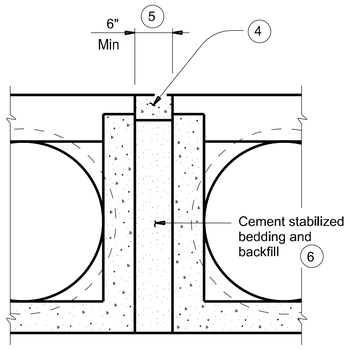
OPTION A



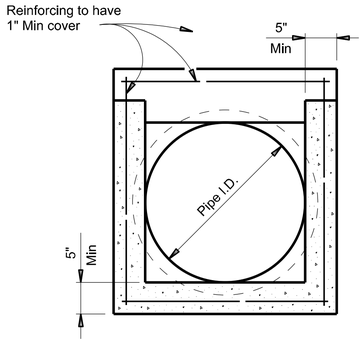
OPTION B

END DETAILS FOR INSTALLATION OF SAFETY PIPE RUNNERS

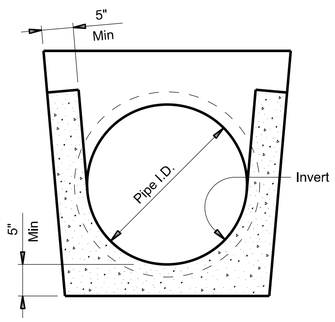
(If required)



MULTIPLE PIPE INSTALLATION

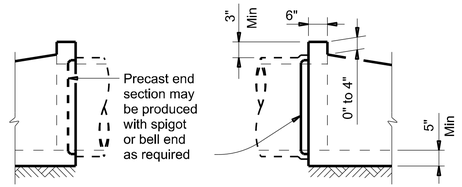


OPTION WITH SQUARE BOTTOM



OPTION WITH INVERT BOTTOM

SECTION A-A



OPTIONAL JOINT FOR RCP

(Showing joint between RCP and precast safety end treatment.)

REQUIREMENTS FOR CULVERT PIPES AND SAFETY PIPE RUNNERS

Pipe I.D.	RCP Wall "B" Thickness	TP Wall Thickness (7)	"D" (1)	Slope	Min Length	Pipe Runners Required		Required Pipe Runner Size		
						Single Pipe	Multiple Pipe	Nominal Dia.	O.D.	I.D.
12"	2"	1.15"	17.00"	6:1	4' - 9"	No	Yes, for > 2 pipes	3" STD	3.500"	3.068"
15"	2 ¼"	1.30"	20.50"	6:1	6' - 5"	No	Yes, for > 2 pipes	3" STD	3.500"	3.068"
18"	2 ½"	1.60"	24.00"	6:1	8' - 0"	No	Yes, for > 2 pipes	3" STD	3.500"	3.068"
24"	3"	1.95"	31.00"	6:1	11' - 3"	No	Yes, for > 2 pipes	3" STD	3.500"	3.068"
30"	3 ½"	2.65"	38.50"	6:1	14' - 8"	No	Yes	4" STD	4.500"	4.026"
36"	4"	2.75"	45.50"	6:1	17' - 11"	Yes	Yes	4" STD	4.500"	4.026"
42"	4 ½"	2.7"	52.50"	6:1	21' - 2"	Yes	Yes	4" STD	4.500"	4.026"

(1) Dimension "D" is based on reinforced concrete pipe (RCP) meeting the requirements of ASTM C-76, Class III, (RCP Wall "B" thickness). Adjust "D" for any other wall thickness used. For thermoplastic pipe (TP) take into account the annular space requirements for grouted connections.

(2) Slope as shown elsewhere in the plans. Slope of 6:1 or flatter is required for vehicle safety.

(3) Toewall to be used only when dimension is shown elsewhere in the plans.

(4) Fill the top 4" of void between precast end treatments with concrete riprap. Concrete riprap is considered subsidiary to the Item 467, "Safety End Treatment."

(5) Adjust clear distance between pipes to provide for the minimum distance between safety end treatments.

(6) Provide cement stabilized bedding and backfill in accordance with the Item 400, "Excavation and Backfill for Structures." Bedding and backfill is considered subsidiary to the Item 467, "Safety End Treatment." When concrete riprap is specified around the safety end treatment, backfill as directed by Engineer.

(7) Thermoplastic pipe wall thickness may vary. Adjust accordingly. Thermoplastic pipe requires the safety end treatments to have a bell end for grouted connections.

GENERAL NOTES:

Precast safety end treatment for reinforced concrete pipe (RCP), and thermoplastic pipe (TP) may be used for TYPE II end treatment as specified in Item "Safety End Treatment."

When precast safety end treatment is used as a Contractor's alternate to mitered RCP, riprap will not be required unless noted otherwise on the plans.

Synthetic fibers listed on the "Fibers for Concrete" Material Producer List (MPL) may be used in lieu of steel reinforcing in riprap concrete unless noted otherwise.

Manufacture this product in accordance with Item 467, "Safety End Treatment" except as noted below :

A. Provide minimum reinforcing of #4 at 6" (Grade 40) or #4 at 9" (Grade 60) each way or 6"x6" - D12 x D12 or 5"x5" - D10 x D10 welded wire reinforcement (WWR).

B. For precast (steel formed) sections, provide Class "C" concrete (f'c = 3,600 psi).

At the option and expense of the Contractor the next larger size of safety end treatment may be furnished; as long as the "D" dimension cast is that of the required size of pipe.

Pipe runners are designed for a traversing load of 10,000 Lbs at yield as recommended by Research Report 280-2F, "Safety Treatment of Roadside Parallel-Drainage Structures", Texas Transportation Institute, March 1981.

Provide pipe runners meeting the requirements of ASTM A53 (Type E or S, Grade B), ASTM A500 (Grade B), or API 5LX52.

Galvanize all steel components except reinforcing steel after fabrication. Repair galvanizing damaged during transport or construction in accordance with the specifications.

Connect RCP using the Optional Joint for RCP detail shown or in accordance with Item 464, "Reinforced Concrete Pipe." Connect TP by grouting. See Pipe and Box Grouted Connections (PBGC) standard for grouted connections with TP and precast safety end treatment.

Texas Department of Transportation

Bridge Division Standard

PRECAST SAFETY END TREATMENT

TYPE II ~ PARALLEL DRAINAGE

PSET-SP

FILE: CD-PSET-SP-21.dgn	DN: RLW	CK: KLR	DW: JTR	CK: GAF
©TxDOT February 2020	CONT	SECT	JOB	HIGHWAY
REVISIONS 12-21: Added 42" TP	DIST	COUNTY		SHEET NO. 275 OF 278

DISCLAIMER:
The use of this standard is governed by the "Texas Engineering Practice Act." No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

DATE: 10/23/2025
FILE: PRECAST SAFETY END TREATMENT TYPE II - CROSS DRAINAGE

AsdeIE

PRECAST SAFETY END TREATMENT TYPE II - CROSS DRAINAGE.dgn

DISCLAIMER:
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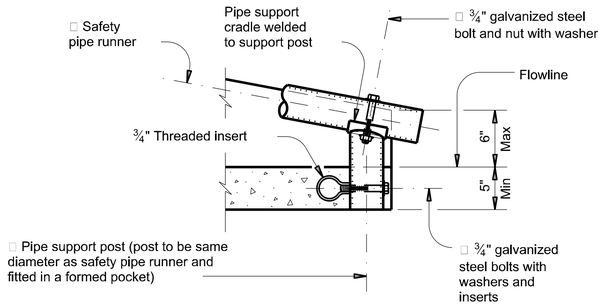
DATE: 10/23/2025
FILE: PRECAST SAFETY END TREATMENT TYPE II - PARALLEL DRAINAGE

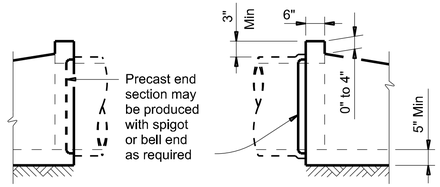
REQUIREMENTS FOR CULVERT PIPES AND SAFETY PIPE RUNNERS

Pipe I.D.	RCP Wall "B" Thickness	TP Wall Thickness (8)	"D" (1)	Slope	Min Length of Unit	Single Pipe		Multiple Pipes	
						Skew	Pipe Runners Required	Skew	Pipe Runners Required
12"	2"	1.15"	17.00"	3:1	2' - 11"	≤ 45°	No	≤ 45°	No
				4:1	3' - 6"				
				6:1	4' - 9"				
15"	2 ¼"	1.30"	20.50"	3:1	3' - 8"	≤ 45°	No	≤ 45°	No
				4:1	4' - 7"				
				6:1	6' - 5"				
18"	2 ½"	1.60"	24.00"	3:1	4' - 6"	≤ 45°	No	≤ 45°	No
				4:1	5' - 8"				
				6:1	8' - 0"				
24"	3"	1.95"	31.00"	3:1	6' - 2"	≤ 45°	No	= 30°	No
				4:1	7' - 10"			> 30°	Yes
				6:1	11' - 3"				
30"	3 ½"	2.65"	38.50"	3:1	7' - 10"	= 15°	No	= 15°	No
				4:1	10' - 1"	> 15°	Yes	> 15°	Yes
				6:1	14' - 8"				
36"	4"	2.75"	45.50"	3:1	9' - 5"	= 0°	No	≥ 0°	Yes
				4:1	12' - 3"	> 0°	Yes		
				6:1	17' - 11"				
42"	4 ½"	2.7"	52.50"	3:1	11' - 1"	≥ 0°	Yes	≥ 0°	Yes
				4:1	14' - 5"				
				6:1	21' - 2"				



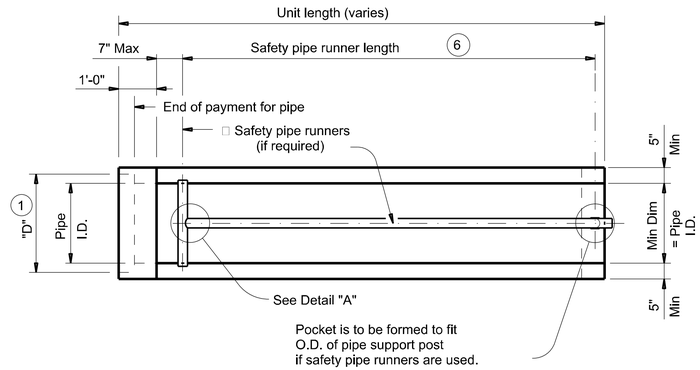
END DETAIL FOR INSTALLATION OF SAFETY PIPE RUNNERS

(If required)



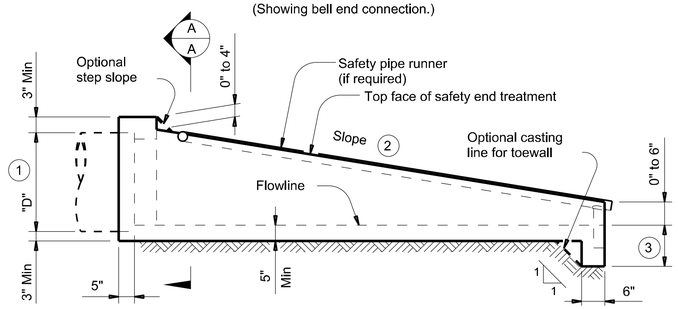
OPTIONAL JOINT FOR RCP

(Showing joint between RCP and precast safety end treatment)



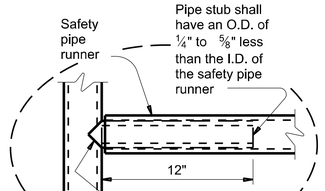
PLAN

(Showing bell end connection.)



LONGITUDINAL ELEVATION

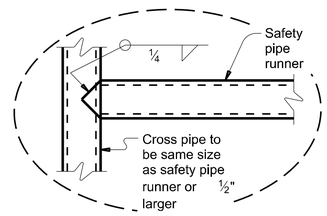
(Showing bell end connection.)



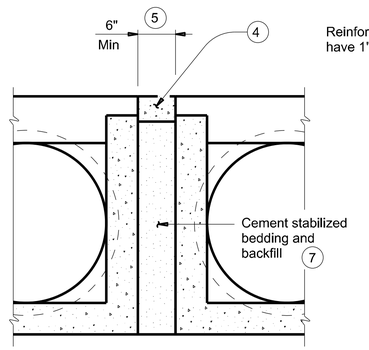
OPTION A

DETAIL A

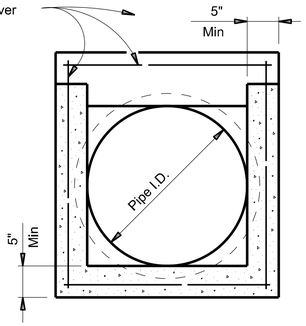
(If required)



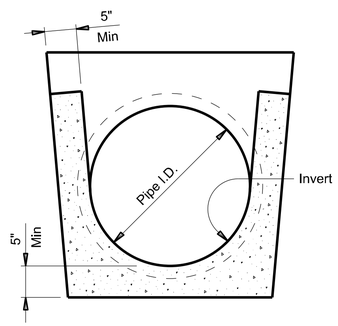
OPTION B



MULTIPLE PIPE INSTALLATION

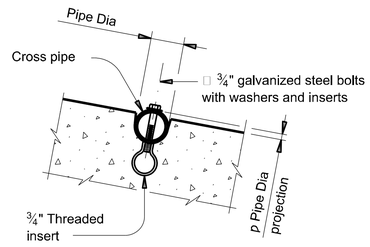


OPTION WITH SQUARE BOTTOM



OPTION WITH INVERT BOTTOM

SECTION A-A



INSTALLATION DETAIL FOR SAFETY PIPE RUNNERS

(If required)

SAFETY PIPE RUNNER DIMENSIONS

Max Safety Pipe Runner Length	Required Pipe Runner Size		
	Pipe Size	Pipe O.D.	Pipe I.D.
11' - 2"	3" STD	3.500"	3.068"
15' - 6"	3 ½" STD	4.000"	3.548"
20' - 10"	4" STD	4.500"	4.026"
35' - 4"	5" STD	5.563"	5.047"

(1) Dimension "D" is based on reinforced concrete pipe (RCP) meeting the requirements of ASTM C-76, Class III, (RCP Wall "B" thickness). Adjust "D" for any other wall thickness used. For thermoplastic pipe (TP) take into account the annular space requirements for grouted connections.

(2) Slope as shown elsewhere in plans. Slope of 3:1 or flatter is required for vehicle safety.

(3) Toewall to be used only when dimension is shown elsewhere in the plans.

(4) Fill the top 4" of void between precast end treatments with concrete riprap. Concrete riprap is considered subsidiary to the Item 467, "Safety End Treatment."

(5) Adjust clear distance between pipes to provide for the minimum distance between safety end treatments.

(6) Measured along slope.

(7) Provide cement stabilized bedding and backfill in accordance with the Item 400, "Excavation and Backfill for Structures." Bedding and backfill is considered subsidiary to the Item 467, "Safety End Treatment." When concrete riprap is specified around the safety end treatment, backfill as directed by Engineer.

(8) Thermoplastic pipe wall thickness may vary. Adjust accordingly. Thermoplastic pipe requires the safety end treatments to have a bell end for grouted connections.

GENERAL NOTES:

Precast safety end treatment for reinforced concrete pipe (RCP), and thermoplastic pipe (TP) may be used for TYPE II end treatment as specified in Item "Safety End Treatment."

When precast safety end treatment is used as a Contractor's alternate to mitered RCP, riprap will not be required unless noted otherwise on the plans.

Synthetic fibers listed on the "Fibers for Concrete" Material Producer List (MPL) may be used in lieu of steel reinforcing in riprap concrete unless noted otherwise.

Manufacture this product in accordance with Item 467, "Safety End Treatment" except as noted below :

A. Provide minimum reinforcing of #4 at 6" (Grade 40) or #4 at 9" (Grade 60) each way or 6"x6" - D12 x D12 or 5"x5" - D10 x D10 welded wire reinforcement (WWR).

B. For precast (steel formed) sections, provide Class "C" concrete (f'c = 3,600 psi).

At the option and expense of the Contractor, the next larger size of safety end treatment may be furnished as long as the "D" dimension cast is that of the required size of pipe.

Pipe runners are designed for a traversing load of 1,800 Lbs at yield as recommended by Research Report 280-1, "Safety Treatment of Roadside Cross-Drainage Structures", Texas Transportation Institute, March 1981.

Provide safety pipe runners, cross pipes, pipe support posts, and pipe stubs meeting the requirements of ASTM A53 (Type E or S, Grade B), ASTM A500 (Grade B), or API 5LX52.

Galvanize all steel components except reinforcing steel after fabrication. Repair galvanizing damaged during transport or construction in accordance with the specifications.

Connect RCP using the Optional Joint for RCP detail shown or in accordance with Item 464 "Reinforced Concrete Pipe." Connect TP by grouting. See Pipe and Box Grouted Connections (PBGC) standard for grouted connections with TP and precast safety end treatment.

Texas Department of Transportation

Bridge Division Standard

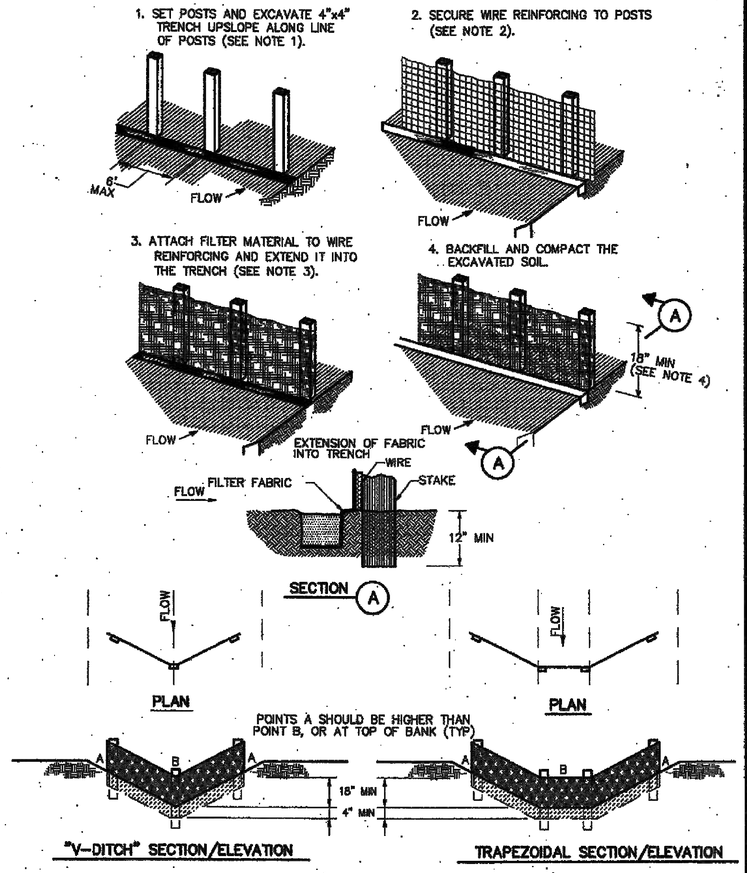
PRECAST SAFETY END TREATMENT

TYPE II ~ CROSS DRAINAGE

PSET-SC

FILE: CD-PSET-SC-21.dgn	DN: RLW	CK: KLR	DW: JTR	CK: GAF
©TxDOT February 2020	CONT	SECT	JOB	HIGHWAY
REVISIONS 12-21: Added 42" TP	DIST	COUNTY		SHEET NO.
				276 OF 278

PRECAST SAFETY END TREATMENT TYPE II - PARALLEL DRAINAGE.dgn

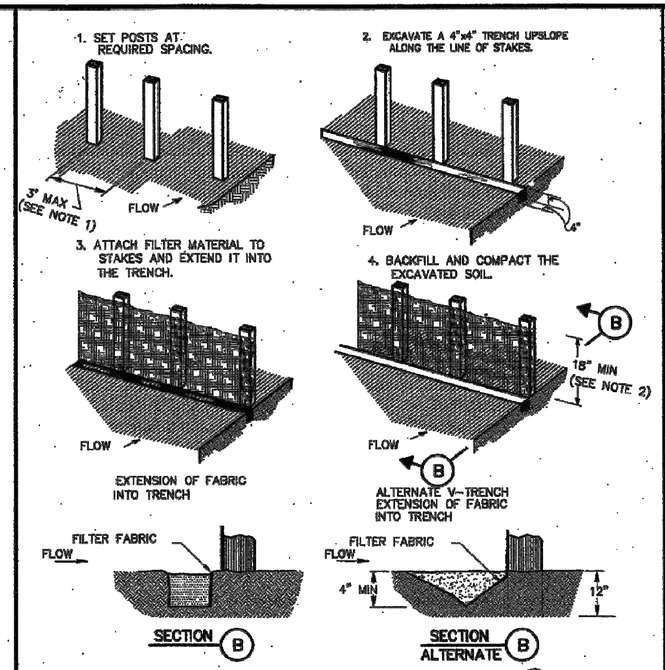


CONSTRUCTION NOTES:

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

SYMBOL

REINFORCED FILTER FABRIC BARRIER

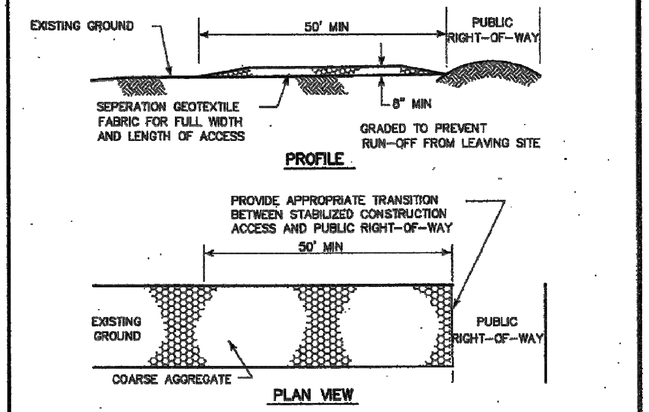


CONSTRUCTION NOTES:

1. 2 INCH THICK BY 2 INCH WOODEN STAKES TO BE SET AT MAX SPACING OF 3 FEET AND EMBEDDED A MIN OF 8 INCHES. IF PREASSEMBLED BARRIER WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE INCREASED TO 8 FEET MAX.
2. ATTACH FILTER FABRIC TO WOODEN STAKES. FILTER FABRIC BARRIER SHALL HAVE A MIN HEIGHT OF 18 INCHES AND MAX HEIGHT OF 36 INCHES ABOVE NATURAL GROUND.
3. WHEN TWO SECTIONS OF FILTER CLOTH ADJOIN EACH OTHER THEY SHOULD BE OVERLAPPED 6 INCHES AT THE POSTS, AND FOLDED.
4. SEE COH STANDARD SPECIFICATION FOR FILTER FABRIC BARRIER.

SYMBOL

FILTER FABRIC BARRIER



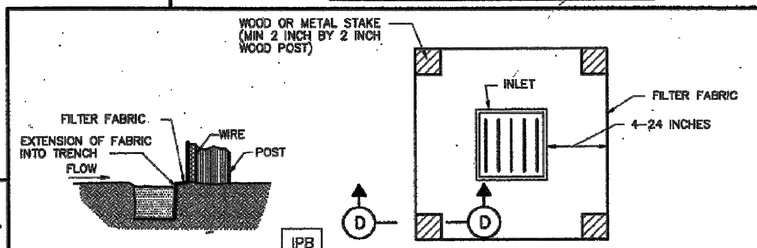
CONSTRUCTION NOTES:

1. LENGTH SHALL BE AS SHOWN ON THE CONSTRUCTION DRAWINGS, BUT NOT LESS THAN 50 FEET.
2. THICKNESS SHALL BE NOT LESS THAN 8 INCHES.
3. WIDTH SHALL BE NOT LESS THAN FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.
4. STABILIZATION FOR OTHER AREAS SHALL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION ACCESS, UNLESS OTHERWISE SHOWN ON THE CONSTRUCTION DRAWINGS.
5. STABILIZED AREA MAY BE WIDENED OR LENGTHENED TO ACCOMODATE A WASHING AREA. AN OUTLET SEDIMENT TRAP MUST BE PROVIDED FOR THE WASHING AREA.
6. COH STANDARD SPECIFICATION FOR STABILIZED CONSTRUCTION ACCESS.
7. STABILIZED CONSTRUCTION ACCESS SHALL BE MAINTAINED FREE OF SEDIMENT FOR THE DURATION OF THE PROJECT.

SC

SYMBOL

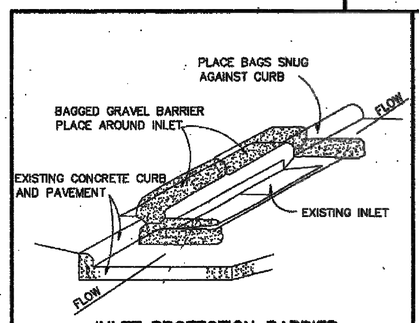
STABILIZED CONSTRUCTION ACCESS



CONSTRUCTION NOTE:

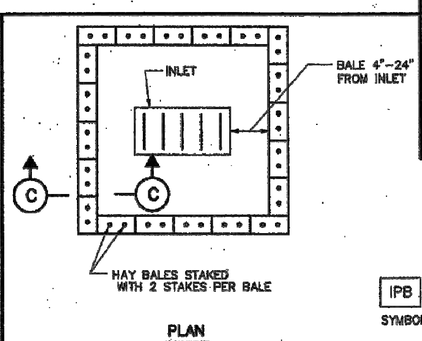
1. SEE CONSTRUCTION NOTES FOR RFB.

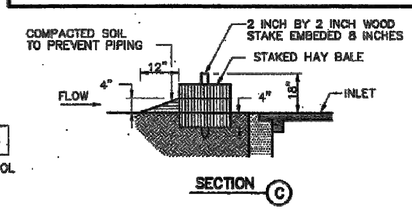
SILT FENCE INLET PROTECTION BARRIER



INLET PROTECTION BARRIER

(FOR STAGE II INLETS)
BAGGED GRAVEL BARRIER





HAY BALE INLET PROTECTION BARRIER

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

STORM WATER POLLUTION PREVENTION PLAN DETAILS

(NOT TO SCALE)

APPROVED BY: CITY ENGINEER
APPROVED BY: DIRECTOR OF PUBLIC WORKS AND ENGINEERING

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

BENCHMARK:
COH MONUMENT 5160-1301(BRASS DSK) LOCATED IN THE NORTH CONCRETE MEDIAN NOSE AT THE INTERSECT. OF MANGUM RD. & W. 34TH ST. KEY MAP 451-R.
ELEV.=70.59 (NAVD 88,CORS 2011 ADJUSTMENT)

COH MONUMENT 5160-8306(BRASS DSK) LOCATED AT THE SOUTH SIDE OF BRIDGE AT WATONGA BLVD & BRICKHOUSE GULLY. KEY MAP 451-M.
ELEV.=62.17 (NAVD 88,CORS 2011 ADJUSTMENT)

COH MONUMENT 5160-8510(BRASS DSK) LOCATED IN THE SOUTH SIDE OF BRIDGE AT W. 43RD ST & WHITE OAK BAYOU. KEY MAP 451-M.
ELEV.=69.81'(NAVD 88,CORS 2011 ADJUSTMENT)

TO ARRANGE FOR LINES TO BE TURNED OFF OR MOVED, CALL CENTERPOINT AT 713-207-2222

PRIVATE UTLITY LINES SHOWN

AT LEAST 48 HOURS BEFORE EXCAVATING IN STREET R.O.W. OR EASEMENTS CALL THE LONE STAR NOTIFICATION 713-223-4567.

Date:
CenterPoint Energy/Electric Facilities
Signature indicates underground electric lines are properly shown. No approval for construction is given.

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

Date:
CenterPoint Energy/Gas Facilities/ENTEX Incorporated
(Gas service lines are not shown)

CABLE COMPANY

MBCO
ENGINEERING + SURVEYING
1505 Highway 6 South, Suite 180
Houston, Texas 77079
281.760.1656
MBCOEngineering.com
SBE/WBE/DBE/HUB
TBPELS Engineering Firm No. F-16850
Land Surveying Firm No. 10194810

FOR INTERIM REVIEW ONLY
THIS DOCUMENT IS INCOMPLETE AND IS NOT INTENDED TO BE USED FOR BIDDING OR CONSTRUCTION PURPOSES.
ENGINEER: STEVE E. STACY
P.E. SERIAL NO.: 90294
DATE: August 1, 2025

SURVEYED BY: KUO
FB NO. P-6325

CITY OF HOUSTON
DEPARTMENT OF PUBLIC WORKS AND ENGINEERING

TURKEY GULLY
DRAINAGE AND PAVING

SWPPP DETAILS

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-3	
DRAWING SCALE	
-	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 278 OF 278	

$USER$
$DATE$
$FILEABBREV$
$FILES$

1. PROPERTY DESCRIPTION

I. LOCATION INFORMATION

A. HARRIS COUNTY COMMISSIONER'S PRECINCT:
[X] 1 [ ] 2 [ ] 3 [ ] 4

B. KEY MAP: 452 T & 452 U

C. ADDRESS: SOUTH OF NORTH 610 LOOP AND NORTH OF WHITE OAK BAYOU BETWEEN BEVIS STREET AND TURKEY GULLY

II. LEGAL DESCRIPTION

A. ACREAGE: _____

B. [X] SUBDIVISION: SHADY ACRES

[ ] SURVEY & ABSTRACT: _____

C. ADJACENT ROADS: _____

III. PLATTING

A. SUBDIVISION PLAT
[ ] PROPOSED PLAT / REPLAT
[ ] RECORDED PLAT / REPLAT

B. STREETS PROPOSED
[X] PUBLIC
[ ] PRIVATE
[ ] PUBLIC & PRIVATE
[ ] NONE

PLAT NAME: _____

IV. JURISDICTIONS

[X] CITY OF HOUSTON
[ ] ETJ, CITY OF HOUSTON
[ ] ETJ, CITY OF _____
[ ] NO ETJ
[ ] UTILITY DISTRICT (NAME)_____

V. HCAD ACCOUNT NOS. (ALL)

_____

2. SITE DETENTION DRAINAGE

I. PROPOSED DRAINAGE AREA

[ ] NEW DEVELOPMENT AREA: _____
[X] RE-DEVELOPMENT AREA (AMOUNT INCREASED IMPERVIOUS AREA): 1.03 ACRES
[ ] LOW IMPACT DEVELOPMENT (LID)
METHOD/DESCRIPTION _____

II. METHODOLOGY

HCFCD PCPM DETENTION METHOD USED:
[ ] METHOD 1 (LESS THAN 20 ACRES)
[ ] METHOD 2 (20 ACRES TO 640 ACRES)
[ ] METHOD 3 (GREATER THAN 640 ACRES)
[X] OTHER CITY OF HOUSTON IDM DETENTION RATE

III. DETENTION VOLUME & OUTFALL

OUTFALL TO:
[X] .65, H.C.F.C.D. CHANNEL, (H.C.F.C.D. UNIT NO.) WHITE OAK BAYOU, E100-00-00
[ ] .75, EXISTING STORM SEWER (OWNER & OPERATOR) _____
[ ] 1.00, ROADSIDE DITCH, (OWNER & ROAD NAME) _____
[X] OTHER (OWNER & OPERATOR) CITY OF HOUSTON PROPOSED TRUNKLINE

IV. STORMWATER DETENTION BASIN INFORMATION

A. HCFCD PCPM SUMMARY TABLE SEE SHEET _____ OF THESE PLANS.

DETENTION BASIN SERVICE AREA		acres	
STORM EVENT	50% EXCEEDANCE (2-YEAR)	10% EXCEEDANCE (10-YEAR)	1% EXCEEDANCE (100-YEAR)
MAXIMUM ALLOWABLE OUTFLOW (PRE-DEVELOPMENT PEAK FLOW)	279.78	312.15	365.08
MAXIMUM OUTFLOW PROVIDED (PEAK FLOW FROM BASIN)	235.12	295.22	323.12
LOWEST NATURAL/FINISHED GROUND OR FINISHED FLOOR ELEVATION ESTIMATE	47.23'		
DESIGN WATER SURFACE ELEVATION			
MINIMUM STORAGE REQUIRED (ac-ft)			
DETENTION STORAGE PROVIDED (ac-ft)			
STORAGE RATE PROVIDED (ac-ft/sc)			
OUTFLOW VELOCITY INTO CHANNEL (ft/sec)			
DRAIN TIME - 1% ONLY (hours)			
EMERGENCY OVERFLOW (TYPE, SIZE, ELEVATION, ETC.)			

B. DETENTION BASIN TO BE MAINTAINED BY N/A

C. DETENTION SERVICE AREA MAP ON SHEET _____

D. ADDITIONAL CRITERIA FOR PUMPED DETENTION BASINS
VOLUME OF PUMPED 1% EXCEEDANCE STORAGE VOLUME = N/A ACFT _____ % OF TOTAL VOLUME
MAXIMUM DESIGN OUTFLOW VELOCITY INTO HCFCD CHANNEL = _____ FT/SEC
DRAIN TIME FOR BASIN = _____ HOURS BASED ON _____HEAD CONDITIONS

V. DETENTION PROVIDED IN OTHER PLANS: N/A

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

VI. FLOW RESTRICTOR SIZE

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

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 ACCOMODATIONS ARE SHOWN ON SHEET ____ OR, AS PRESENTED IN THE APPROVED DRAINAGE STUDY ENTITLED DESIGN CONCEPT REPORT WBS NO. M-430100-0020-3

TOTAL ACREAGE = N/A
TOTAL DISCHARGE = N/A

TURKEY GULLY STORM WATER IMPROVEMENTS, JUNE 2023, HUITT-ZOLLARS, INC.

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)

[X] 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:
[X] 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:
[X] PROJECT'S SWQ REQUIREMENTS FALL WITHIN THE JURISDICTION OF: CITY OF HOUSTON
[ ] STORMWATER QUALITY PERMIT REQUIREMENT IS COVERED BY AN EXISTING SWQMP WITHIN PROJECT TITLE:

HARRIS COUNTY PROJECT No _____ & SWQ PERMIT No.

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

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 CALCULATIONSAPPEAR ON SHEET(S)_____
[ ] HYDRODYNAMIC TYPE SEPARATOR MODEL: _____
[X] OTHER(S): SOD

4. FLOOD PLAIN STATUS

I. GENERAL INFORMATION

FIRM PANEL(S) FOR PROPERTY: 48201C0670M
FIRM PANEL(S) DATE: JUNE 9, 2014
STATUS OF PROPERTY ON MAP
[ ] ENTIRELY LOCATED IN UNSHADED ZONE "X"
[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 56.50')
(0.2% BASE FLOOD LEVEL 58.31)
[ ] 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.)** CITY OF HOUSTON MONUMENT 5259-8107, A BRASS DISK IN CONCRETE, LOCATED AT SOUTHEAST CORNER OF THE INTERSECTION OF BEVIS ST AND W 21ST ST. ELEVATION = 53.48 FEET NAVD 1988 (GEOID '18)

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

III. FLOODPLAIN STORAGE SUMMARY

(APPLIES ONLY TO PORTION OF LAND LOCATED WITHIN FEMA REGULATORY FLOODPLAIN).

A. 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 _____

B. 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)

C. FILL AREA & VOLUME CALCULATIONS ARE SHOWN ON SHEET _____

5. WORK IN HCFCD RIGHT-OF-WAY

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

A. BOND/NOTIFICATION INFORMATION
[X] HCFCD WATERSHED TURKEY GULLY AND WHITE OAK BAYOU
[X] HCFCD UNIT No. E100-00-00
[X] NUMBER OF OUTFALLS FOUR
[ ] UTILITY CROSSING
[ ] ROADWAY BRIDGE/CULVERT CROSSING
[ ] FILL ACTIVITY
[ ] REHABILITATION OF CHANNEL
[ ] MAINTENANCE
[ ] TEMPORARY CROSSING
[ ] TRAIL (LENGTH) _____
[ ] OTHER _____
COST OF WORK IN HCFCD ROW _____

II. USACE ENVIRONMENTAL PERMIT

[ ] US ARMY CORPS OF ENGINEERS NATIONWIDE PERMIT NUMBER(S) _____
[ ] US ARMY CORPS OF ENGINEERS INDIVIDUAL PERMITS
[ ] OTHER
[X] NO PERMITS REQUIRED
EXPLAIN: _____

III. REFERENCE / BASIS OF DETERMINATION

[X] ENVIRONMENTAL CONSULTANT REPORT
BY HVJ ASSOCIATED
REPORT TITLE PHASE II ENVIRONMENTAL SITE ASSESSMENT REPORT
REPORT DATE APRIL 2025
[ ] OTHER _____

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

IV. HCFCD STANDARD NOTES: SEE SHEET __5__ OF THESE PLANS.

V. HCFCD STANDARD DETAILS: SEE SHEET _____ OF THESE PLANS.

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

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

6. REPORTS/AGREEMENTS

I. HCFCD ACCEPTED REPORTS (ALL)

STORMWATER DRAINAGE DESIGN REPORT
REPORT TITLE DESIGN CONCEPT REPORT WBS NO. M-430100-0020-3 TURKEY GULLY STORM WATER DRAINAGE IMPROVEMENTS
HCFCD PROJECT # N/A
ENGINEERING FIRM HUITT-ZOLLARS, INC.
REPORT ACCEPTANCE DATE JUNE 2023

GEOTECHNICAL INVESTIGATION REPORT
REPORT TITLE GEOTECHNICAL INVESTIGATION TURKEY GULLY DRAINAGE AND PAVING
HCFCD PROJECT #_____
ENGINEERING FIRM GEOTEST ENGINEERING, INC.
REPORT ACCEPTANCE DATE SEPTEMBER 2025

HCFCD APPROVED VARIANCE
DESCRIPTION OF VARIANCE _____
DOCUMENT ID #_____
VARIANCE ACCEPTANCE DATE _____

II. AGREEMENT TYPE & No.:

[ ] INTERLOCAL (ILA): _____
[ ] HCFCD MAINTENANCE _____
[ ] TURF ESTABLISHMENT _____
[ ] OTHER _____

HCFCD SIGNATURE BLOCK

PROJECT NAME: _____

ADDRESS: _____

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 HCFCD RIGHT-OF-WAY

APPROVED:

BY_____
FOR ITEMS LOCATED WITHIN EXISTING HCFCD RIGHT-OF-WAY

APPROVED:

BY_____
FOR ITEMS LOCATED WITHIN PROPOSED HCFCD 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 GOVERNEMENT CODE CH. 245.

ENGINEER'S CERTIFICATION

I, _____ , 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 _____ THRU _____

_____ _____
SIGNATURE DATE

SEAL

REVISIONS

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

DATE	SHEET NO.	DESCRIPTION	P.E. INITIAL	H.C.F.C.D APPROVED DATE

HARRIS COUNTY FLOOD CONTROL PROJECT NO.

SHEET NUMBER ___ OF ___

IDCUS
Planners | Engineers | Construction Managers
15915 Katy Freeway, Suite 300
Houston, Texas 77094
(713) 541-5591
TBPE FIRM REGISTRATION NO. F-6825

SURVEYED BY: KUO
FB NO. P-6325

PRELIMINARY ENGINEERING
NOT INTENDED FOR CONSTRUCTION

THESE PLANS ARE PRELIMINARY AND ARE BEING ISSUED FOR REVIEW BY PUBLIC AGENCIES AND OTHER PRELIMINARY PURPOSES. WHEN ISSUED IN FINAL FORM THEY WILL BE SEALED, SIGNED, AND DATED BY THE RESPONSIBLE ENGINEER.

RESPONSIBLE ENGINEER:
HUNG H. NGUYEN, P.E.
P.E. NO. 113148 on 10/27/2025

CITY OF HOUSTON
HOUSTON PUBLIC WORKS

TURKEY GULLY

HARRIS COUNTY FLOOD CONTROL DISTRICT EXPRESS REVIEW SHEET

WBS NUMBER	FOR CITY OF HOUSTON USE ONLY
M-410291-0001-4	
DRAWING SCALE	
NTS	
CITY OF HOUSTON PM	
LOI MA	
SHEET NO. 278 OF 278	

HARRIS COUNTY
FLOOD CONTROL DISTRICT
REVIEW SHEET

VERSION 1.0 OCTOBER 2019

Ron Ting

10/27/2025
...\TURKEY-HCFCD-EXPRESS REVIEW.dgn

TURKEY-HCFCD-EXPRESS REVIEW.dgn