

MIDLAND COUNTY

Plans for the Construction/Reconstruction of

SOUTH COUNTY ROAD 1180

FROM EAST COUNTY ROAD 120 TO EAST COUNTY ROAD 140

OWNER:
MIDLAND COUNTY
MIDLAND, TEXAS

ENGINEER:
DUNAWAY ASSOCIATES, L.P.
4000 N. BIG SPRING, SUITE 101
MIDLAND, TEXAS 79705
MAIN: 432-699-4889

UTILITY RELOCATION NOTE:
IF ANY EXISTING UTILITY POLES, POWER POLES, GUY WIRES, TELEPHONE UTILITIES, ETC. ARE FOUND TO BE IN CONFLICT WITH THESE CONSTRUCTION PLANS. THE CONTRACTOR SHALL CONTACT THE APPROPRIATE UTILITY COMPANY AND COORDINATE THE RELOCATION OF ANY/OR ALL SUCH UTILITIES (NO SPECIAL PAY).

TEMPORARY IMPACTS IN WATERS OF THE U.S. NOTE:
NATIONWIDE PERMIT 14 AUTHORIZES TEMPORARY STRUCTURES, FILLS, AND WORK, INCLUDING THE USE OF TEMPORARY MATS, NECESSARY TO CONSTRUCT THE LINEAR TRANSPORTATION PROJECT. APPROPRIATE MEASURES MUST BE TAKEN TO MAINTAIN NORMAL DOWNSTREAM FLOWS AND MINIMIZE FLOODING TO THE MAXIMUM EXTENT PRACTICABLE, WHEN TEMPORARY STRUCTURES, WORK, AND DISCHARGES, INCLUDING COFFERDAMS, ARE NECESSARY FOR CONSTRUCTION ACTIVITIES, ACCESS FILLS, OR DEWATERING OF CONSTRUCTION SITES. TEMPORARY FILLS MUST CONSIST OF MATERIALS, AND BE PLACED IN A MANNER, THAT WILL NOT BE ERODED BY EXPECTED HIGH FLOWS. TEMPORARY FILLS MUST BE REMOVED IN THEIR ENTIRETY AND THE AFFECTED AREAS RETURNED TO PRE-CONSTRUCTION ELEVATIONS. THE AREAS AFFECTED BY TEMPORARY FILLS MUST BE RE-VEGETATED, AS APPROPRIATE.

PROJECT LOCATION



VICINITY MAP

NOT TO SCALE

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32	SIGNAGE & PAVEMENT MARKINGS	STA 22+00 TO 44+00
33	SIGNAGE & PAVEMENT MARKINGS	STA 44+00 TO 66+00
34	SIGNAGE & PAVEMENT MARKINGS	STA 66+00 TO 88+00
35	SIGNAGE & PAVEMENT MARKINGS	STA 88+00 TO END



4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
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(TX REG. F-1114)

DA JOB NO. B009115.001

MAY 2024

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PLANS FOR THE RECONSTRUCTION OF S.C.R. 1180 TO SERVE:
FROM EAST COUNTY ROAD 120 TO EAST COUNTY ROAD 140
MIDLAND COUNTY, TEXAS



WARNING TO CONTRACTOR:

CALL 811 (TEXAS 811) OR OTHER UTILITY LOCATING SERVICES 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY. DUNAWAY ASSOC., L.P. IS NOT RESPONSIBLE FOR KNOWING ALL EXISTING UTILITIES OR DEPICTING EXACT LOCATIONS OF UTILITIES ON DRAWINGS.

CRITICAL:

LOCATIONS OF EXISTING UTILITIES ARE APPROXIMATE AND ARE BASED ON PUBLIC RECORDS. THE CONTRACTOR IS COMPLETELY RESPONSIBLE FOR LOCATING ALL EXISTING UTILITIES, BOTH HORIZONTALLY AND VERTICALLY, BEFORE THE COMMENCEMENT OF ANY CONSTRUCTION.

UTILITY RELOCATION NOTE:

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STATE PLANE COORDINATE NOTE:

COORDINATES PROVIDED ARE RELATIVE TO THE TEXAS STATE PLANE COORDINATE SYSTEM (NAD83), CENTRAL ZONE 4203; ALL COORDINATES, BEARINGS, AND DISTANCES ARE NAD83 GRID VALUES.

BENCHMARK:

SEE GENERAL NOTES (SHEET 1) FOR DETAILS.

GENERAL NOTES:

- DIMENSIONS AND COORDINATES PROVIDED INDICATE THE DESIGN INTENT OF THE ENGINEER. THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF ANY INCONSISTENCIES OR DISCREPANCIES FOUND DURING CONSTRUCTION. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND COORDINATES DURING CONSTRUCTION LAYOUT PRIOR TO THE COMMENCEMENT OF CONSTRUCTION.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO AND THROUGHOUT CONSTRUCTION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION PHASE SURVEYING INCLUDING LOCATING AND VERIFYING PROJECT BENCHMARKS.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN NEAT AND ACCURATE CONSTRUCTION RECORDS. THE CONTRACTOR SHALL PROVIDE CLEAN AND ACCURATE FULL-SIZE RECORD DRAWINGS WHICH CLEARLY DESCRIBE ANY DEVIATIONS FROM THE PLANS.
- ALL MATERIALS AND CONSTRUCTION SHALL CONFORM TO THE FOLLOWING, IN ORDER OF PRECEDENCE, (1) DETAILS SHOWN IN THESE PLANS AND SPECIFICATIONS, (2) TEXAS DEPARTMENT OF TRANSPORTATION - "STANDARD SPECIFICATIONS FOR CONSTRUCTION OF HIGHWAY, STREETS AND BRIDGES."
- IN AREAS WHICH ARE TO REMAIN UNDISTURBED, THE CONTRACTOR SHALL PRESERVE, PROTECT AND/OR RESTORE ALL AREAS DISTURBED BY THE CONSTRUCTION TO ORIGINAL CONDITION OR BETTER AT THE EXPENSE OF THE CONTRACTOR.
- IN THE EVENT THAT EXISTING PRIVATE UTILITY SERVICES SUCH AS WATER, GAS, TELEPHONE, ELECTRIC, ETC. MUST BE TAKEN OUT OF SERVICE TO FACILITATE CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE TEMPORARY UTILITIES TO THE SATISFACTION OF THE OWNER.
- THE ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION SAFETY.
- THE CONTRACTOR SHALL PROTECT ALL PROPERTY CORNER MARKERS, AND IF DISTURBED, THEY SHALL BE RESET AT THE EXPENSE OF THE CONTRACTOR.
- IN THE EVENT THAT OTHER CONTRACTORS ARE DOING WORK IN THE SAME AREA SIMULTANEOUSLY WITH THIS PROJECT, THE CONTRACTOR SHALL COORDINATE HIS PROPOSED CONSTRUCTION WITH THAT OF THE OTHER CONTRACTORS.
- ALL MATERIALS TO BE REMOVED FROM THE SITE INCLUDING UNSUITABLE SPOIL MATERIAL, REFUSE AND OTHER DEBRIS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE LAWFULLY REMOVED & DISPOSED OF OUTSIDE THE LIMITS OF THE PROJECT.
- THE CONTRACTOR SHALL MAKE A FINAL CLEAN-UP OF ALL PARTS OF THE WORK AND PREPARE THE SITE IN AN ORDERLY MANNER OF APPEARANCE BEFORE ACCEPTANCE BY THE COUNTY.
- HAUL ROADS, ACCESS ROUTES AND THE LOCATION OF ALL STAGING AREAS AND STORAGE AREAS SHALL BE SUBJECT TO THE APPROVAL OF THE COUNTY.
- BEYOND ENGINEERING AND TESTING, LLC (BEYOND) HAS MADE AN INVESTIGATION OF SUBSURFACE SOIL CONDITIONS OF THE PROJECT SITE IN THEIR REPORT PROJECT NO. GT230419, DATED JUNE 13, 2023, AND IS REFERENCED IN THE CONSTRUCTION DOCUMENTS AS "GEOTECHNICAL REPORT".
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE TRAFFIC CONTROL DURING CONSTRUCTION AS REQUIRED BY THE COUNTY AND STATE IN WHICH THE PROJECT IS LOCATED.
- CONTRACTOR SHALL PREPARE, FURNISH, MAINTAIN, AND REMOVE ALL TRAFFIC CONTROL DEVICES THROUGHOUT CONSTRUCTION. ALL DEVICES SHALL BE IN CONFORMANCE WITH THE TEXAS MUTCD, LATEST EDITION AS CURRENTLY AMENDED BY THE TEXAS DEPARTMENT OF TRANSPORTATION.
- CONTRACTOR IS RESPONSIBLE FOR COORDINATING ROAD AND DRIVEWAY CLOSURES WITH THE OWNER AND AUTHORITIES HAVING JURISDICTION.
- CONTRACTOR IS RESPONSIBLE FOR PROVIDING A TRAFFIC CONTROL AND SEQUENCING PLAN WITH SUBMISSION OF THE BID PACKET. THIS PLAN WILL BE REVIEWED FOR APPROVAL AND AS PART OF THE ASSESSMENT FOR AWARD OF BID. ROAD CLOSURES WILL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE COUNTY UPON APPROVAL OF SUBMITTED TRAFFIC CONTROL AND SEQUENCING PLAN.
- NO SPECIAL PAY FOR TRAFFIC CONTROL ITEMS NOT INCLUDED IN TRAFFIC CONTROL BID. ANY MATERIALS NEEDED FOR TRAFFIC CONTROL SHALL BE INCLUDED IN THE TRAFFIC CONTROL BID ITEM. COUNTY SHALL NOT PROVIDE ANY ASPECTS OF TRAFFIC CONTROL, SEQUENCING, OR ALTERNATIVE ROUTES.
- CONTRACTOR TO REMOVE AND REINSTALL MAILBOXES, AS NEEDED, TO COMPLY WITH THE DETAIL. FOR DECORATIVE MAILBOXES, THE CONTRACTOR SHALL NOTIFY THE LANDOWNER THAT THEIR MAILBOX WILL BE RELOCATED AND REINSTALLED ON A STANDARD POST, MEETING THE REQUIREMENTS STATED HEREIN. THE CONTRACTOR WILL COORDINATE WITH THE LANDOWNER FOR REMOVAL OF MATERIALS. ANY WORK THE CONTRACTOR COORDINATES TO REINSTALL A MAILBOX WITH DECORATIVE MATERIALS SHALL BE AT THE EXPENSE OF THE CONTRACTOR OR LANDOWNER.

EROSION CONTROL NOTES:

- CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A SWPPP, ALL NECESSARY PERMITS AND APPROVALS, AND MAINTAINING COMPLIANCE WITH THE GENERAL PERMIT.
- EROSION CONTROL MEASURES SHALL FOLLOW THE STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IF APPLICABLE. ANY CHANGES TO THE SWPPP SHALL SUPERSEDE THE EROSION CONTROL PLAN. THE SWPPP IS TO BE KEPT ON-SITE AT ALL TIMES WITH THESE CONSTRUCTION DOCUMENTS AS NECESSARY FOR COMPLIANCE WITH THE TEXAS POLLUTANT DISCHARGE ELIMINATION SYSTEM (TPDES) GENERAL PERMIT.
- THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION, ROUTINE INSPECTION AND/OR MAINTENANCE OF EROSION CONTROL DEVICES.
- THE EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL ACCEPTABLE VEGETATION COVERAGE HAS BEEN ACHIEVED IN ACCORDANCE WITH THE GENERAL PERMIT.
- ANY ADDITIONAL EROSION CONTROL MEASURES REQUIRED TO COMPLY WITH THE SWPPP OR TCEQ STORMWATER POLLUTION REGULATIONS SHALL BE IMPLEMENTED BY THE CONTRACTOR, AT HIS EXPENSE.
- DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE CEASED FOR AT LEAST FOURTEEN DAYS SHALL BE TEMPORARILY SEEDED AND WATERED. DISTURBED AREAS OF THE SITE WHERE CONSTRUCTION ACTIVITIES HAVE PERMANENTLY CEASED SHALL BE PERMANENTLY SEEDED/SODDED WITHIN SEVEN DAYS IN ACCORDANCE WITH THE PLANS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING SEEDED/SODDED AREAS AS NECESSARY UNTIL 70% VEGETATION IS ESTABLISHED IN ACCORDANCE WITH THE PLANS.
- THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EROSION CONTROL MEASURES ONCE FINAL GROUND STABILIZATION IS ACHIEVED AND THE PROJECT IS COMPLETED.

DEMOLITION NOTES:

- THE CONTRACTOR IS RESPONSIBLE FOR THE DEMOLITION, REMOVAL, AND DISPOSING OF EXISTING STRUCTURES, UTILITIES, PAVEMENT, TREES, ETC., WITHIN CONSTRUCTION LIMITS AS SHOWN ON PLANS, IN A LOCATION APPROVED BY ALL GOVERNING AUTHORITIES AT CONTRACTOR'S EXPENSE. AREAS WHERE MATERIAL HAS BEEN REMOVED SHALL BE UNDERCUT TO SUITABLE MATERIAL AND BROUGHT BACK UP TO GRADE WITH SUITABLE COMPACTED FILL MATERIAL IN ACCORDANCE WITH GEOTECHNICAL REPORT.
- THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
- PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
- THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES/FLOWLINES.
- CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES.
- CONTRACTOR MAY LIMIT SAWCUT AND PAVEMENT REMOVAL TO ONLY THOSE AREAS WHERE IT IS REQUIRED AS SHOWN ON THESE CONSTRUCTION PLANS, BUT IF ANY DAMAGE IS INCURRED ON ANY OF THE SURROUNDING PAVEMENT, ETC. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ITS REMOVAL AND REPAIR.
- ALL FENCES REMOVED TO FACILITATE CONSTRUCTION SHALL BE REPLACED AT THE EXISTING OR PROPOSED LOCATION AS DIRECTED BY THE COUNTY.

GRADING NOTES:

- THE AREA TO BE GRADED SHOULD BE STRIPPED OF VEGETATION, ROOTS, STUMPS, DEBRIS, AND OTHER ORGANIC MATERIALS.
- CONSTRUCTION SHALL BE BASED ON ELEVATIONS SHOWN ON THE ROADWAY PLAN & PROFILE SHEETS PLAN. CONTOURS ARE A VISUAL REPRESENTATION OF FINISHED GRADE ONLY AND ARE NOT INTENDED TO BE USED TO SET GRADE.
- SLOPES ON SITE SHALL NOT EXCEED A 3:1 SLOPE, UNLESS NOTED OTHERWISE.
- ANY COSTS ASSOCIATED WITH DEWATERING THE SITE SHALL BE DONE AT THE EXPENSE OF THE CONTRACTOR.
- THE CONTRACTOR SHALL MATCH EXISTING ELEVATIONS AND CONSTRUCT SMOOTH TRANSITIONS AT CONNECTIONS TO EXISTING PAVEMENT.

UTILITY NOTES:

- THE CONTRACTOR SHALL PROTECT ALL EXISTING UTILITIES UNLESS NOTED OTHERWISE.
- CONTRACTOR TO COORDINATE WITH UTILITY OWNERS FOR VERTICAL ADJUSTMENTS TO, AND NEAR, THEIR FACILITIES PRIOR TO CONSTRUCTION.
- CONTRACTOR TO FIELD VERIFY DEPTH OF ALL EXISTING PIPELINES PRIOR TO CONSTRUCTION.
- CONTRACTOR TO FIELD VERIFY HEIGHT CLEARANCE ON ALL OVERHEAD UTILITIES PRIOR TO CONSTRUCTION.

ON-SITE BENCHMARKS:

- CP-113: A 5/8 INCH IRON ROD WITH RED CAP LOCATED AT THE SOUTHEAST CORNER OF THE INTERSECTION OF EAST COUNTY ROAD 126 AND COUNTY ROAD 1180, APPROXIMATELY 30 FEET EAST OF THE CENTERLINE OF COUNTY ROAD 1180 AND 65 FEET SOUTH OF THE CENTERLINE OF EAST COUNTY ROAD 126.
NAD83 GRID COORDINATES: N: 10,678,423.80 E: 1,764,075.59
PUBLISHED ELEVATION: 2784.01' NAVD88 DATUM
- CP-114: A 5/8 INCH IRON ROD WITH RED CAP LOCATED APPROXIMATELY 30 FEET WEST OF THE CENTERLINE OF COUNTY ROAD 1180 AND APPROXIMATELY 135 FEET SOUTH OF THE CENTERLINE OF COUNTY ROAD 130.
NAD83 GRID COORDINATES: N: 10,675,839.28 E: 1,764,681.10
PUBLISHED ELEVATION: 2778.14' NAVD88 DATUM
- CP-115: A 5/8 INCH IRON ROD WITH RED CAP LOCATED APPROXIMATELY 30 FEET NORTH OF THE CENTERLINE OF COUNTY ROAD 135 AND APPROXIMATELY 75 FEET EAST OF THE CENTERLINE OF COUNTY ROAD 1180.
NAD83 GRID COORDINATES: N: 10,673,426.06 E: 1,765,414.73
PUBLISHED ELEVATION: 2778.14' NAVD88 DATUM

PROPOSED PLAN LEGEND		EXISTING CONDITIONS LEGEND	
	PROPOSED ROAD CENTERLINE		RIGHT-OF-WAY
	PROPOSED MAJOR CONTOUR		PROPERTY BOUNDARY
	PROPOSED MINOR CONTOUR		ADJOINER
	FULL-DEPTH ROADWAY SAWCUT		ABSTRACT
	FULL-DEPTH DRIVEWAY SAWCUT		EXISTING MAJOR CONTOUR
	PROPOSED EDGE OF ASPHALT		EXISTING MINOR CONTOUR
	PROPOSED DITCH CENTERLINE		EXISTING EDGE OF ASPHALT
	PROPOSED PROFILE LEFT DITCH FLOW LINE		EXISTING CURB
	PROPOSED PROFILE RIGHT DITCH FLOW LINE		EXISTING FENCE
	PROPOSED CULVERT		EXISTING FLOODPLAIN BOUNDARY
	PROPOSED ASPHALT		EXISTING AT&T
	PROPOSED CONCRETE		EXISTING CABLE
	PROPOSED DRIVEWAY BASE		EXISTING COMMUNICATION
	CONTROL POINT		EXISTING DRAINAGE PIPE
	EASTING		EXISTING OVERHEAD ELECTRIC
	NORTHING		EXISTING UNDERGROUND ELECTRIC
	ELEVATION		EXISTING FIBER-OPTIC CABLE
	CENTERLINE		EXISTING FORCE MAIN
	LEFT		EXISTING GAS LINE
	RIGHT		EXISTING IRRIGATION
	POINT OF CURVATURE		EXISTING OVERHEAD LINES
	POINT OF CONTINUOUS CURVATURE		EXISTING UNDERGROUND PIPELINE
	POINT OF INTERSECTION		EXISTING SANITARY SEWER
	POINT OF REVERSE CURVATURE		EXISTING STORM DRAIN
	POINT OF TANGENCY		EXISTING TELEPHONE LINE
	RADIUS		EXISTING WATER LINE
	EXISTING GRADE		EXISTING SIGN
	FLOWLINE		EXISTING UTILITY SIGN
	MATCH EXISTING		EXISTING BOLLARD/FENCE POST
	PROPOSED GRADE LINE		EXISTING MAILBOX
	POINT OF VERTICAL INTERSECTION		EXISTING TREE
			EXISTING CABLE BOX
			EXISTING PEDESTAL CABLE
			EXISTING ELECTRICAL BOX
			EXISTING PEDESTAL ELECTRIC
			EXISTING ELECTRIC VAULT
			EXISTING LIGHT POLE
			EXISTING GAS MANHOLE
			EXISTING GAS METER
			EXISTING PEDESTAL GAS
			EXISTING GUY WIRE
			EXISTING UTILITY POLE
			EXISTING SANITARY SEWER MANHOLE
			EXISTING CLEANOUT
			EXISTING STORM DRAIN MANHOLE
			EXISTING PEDESTAL TELEPHONE
			EXISTING PEDESTAL UNKNOWN
			EXISTING FIRE HYDRANT
			EXISTING WATER METER
			EXISTING WATER MANHOLE
			EXISTING WATER VALVE
	EXISTING ASPHALT TO BE DEMOLISHED		EXISTING ASPHALT TO BE DEMOLISHED
	EXISTING CONCRETE TO BE DEMOLISHED		EXISTING CONCRETE TO BE DEMOLISHED
	EXISTING GRAVEL TO BE DEMOLISHED		EXISTING GRAVEL TO BE DEMOLISHED

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NO.	REVISION	BY	DATE	CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ N/A
VERT N/A
DATE
MAY 2024

DUNAWAY
 4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
 Tel: 432.699.4889
 [TX REG. F-1114]

Brian W. Adkins
 PROJECT ENGINEER
 MAY 9, 2024
 DATE

MIDLAND COUNTY PRECINCT 2
SOUTH COUNTY ROAD 1180
MIDLAND COUNTY, TEXAS

GENERAL NOTES

DA PROJECT B009115.001
 SHEET **1**



WARNING TO CONTRACTOR:

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UTILITY RELOCATION NOTE:

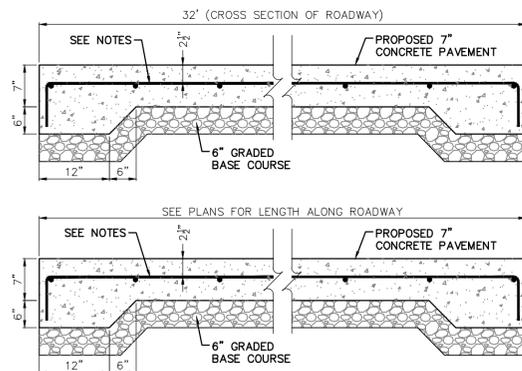
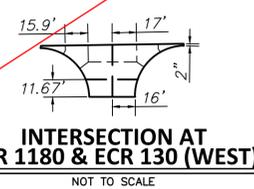
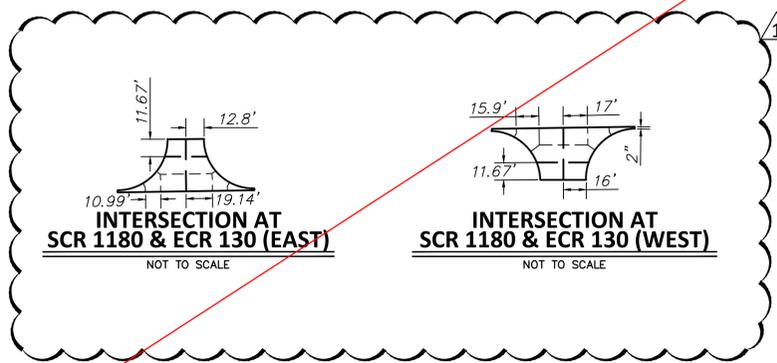
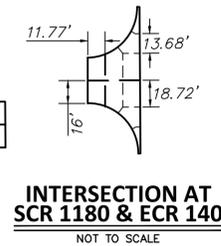
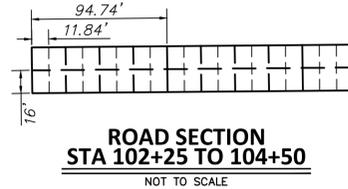
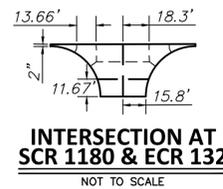
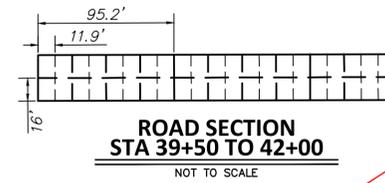
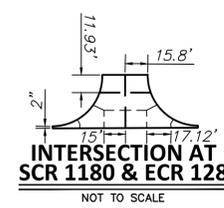
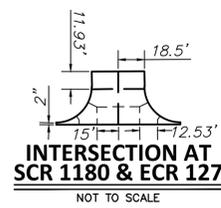
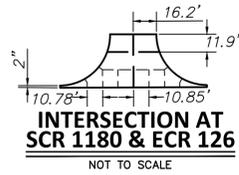
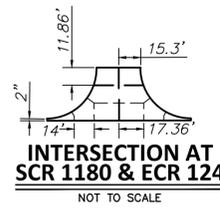
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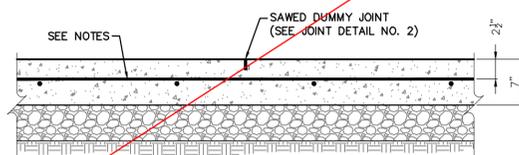
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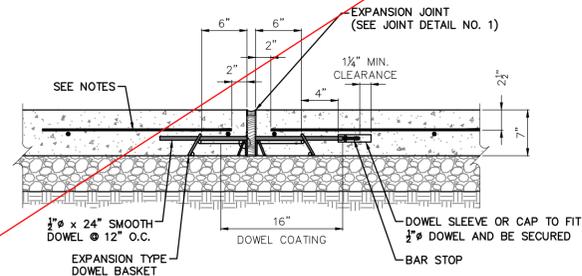
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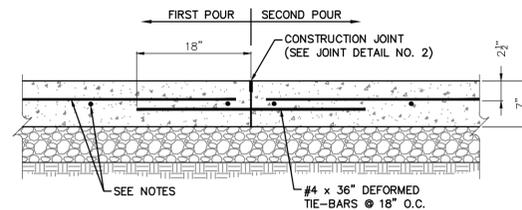
CONCRETE PAVEMENT TYPICAL SECTION
NOT TO SCALE



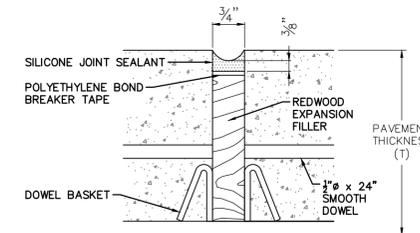
SAWED DUMMY JOINT
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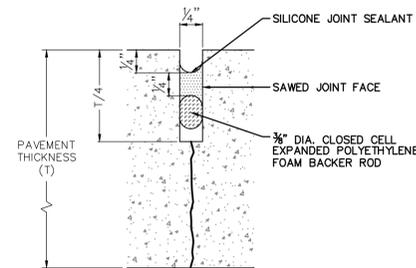
EXPANSION JOINT
NOT TO SCALE



CONSTRUCTION JOINT
NOT TO SCALE



JOINT DETAIL NO. 1
NOT TO SCALE



JOINT DETAIL NO. 2
NOT TO SCALE

PAVEMENT AND JOINT NOTES:

- CONCRETE SHALL BE CLASS "A" AND SHALL HAVE A MINIMUM OF 5 SACKS OF CEMENT PER CUBIC YARD AND A MINIMUM 28 DAY COMPRESSION STRENGTH OF 3000 P.S.I.
- REINFORCEMENT SHALL BE #4 BARS AT 18" ON CENTER EACH WAY.
- FOR DEFORMED BAR SPLICES, LAP BARS 40 DIAMETERS AND TIE.
- ALL DOWELS TO BE PLACED AT T/2.
- EXPANSION JOINTS TO BE PLACED AS SHOWN NOT TO EXCEED 100' SPACING.
- CONSTRUCTION AND SAWED DUMMY JOINTS SHALL ALTERNATE EVERY 12' (MAX.) BETWEEN EXPANSION JOINTS, OR AS SHOWN. ROADWAY CENTERLINE SHALL BE A CONSTRUCTION JOINT.
- SAWCUT FOR CONSTRUCTION JOINTS SHALL BE DONE WITHIN 8 HOURS OF POUR OR AS SOON AS CONCRETE CAN SUPPORT WEIGHT. PROVIDE A NEAT CUT WHICH IS TRUE IN ALIGNMENT.
- CONSTRUCTION JOINTS SHALL BE REQUIRED AT THE END OF A DAY'S WORK, UNLESS IT ENDS AT AN EXPANSION JOINT.
- ALL CONSTRUCTION JOINTS SHALL BE CLEANED OF DEBRIS, BLOWN DRY, AND IMMEDIATELY SEALED.
- ALL JOINTS ARE TO CONTINUE THROUGH THE CURB.
- RADIAL JOINTS SHALL BE NO SHORTER THAN 18".
- ODD SHAPED PANELS SHALL BE REINFORCED WITH #3 BARS AT 18" EACH WAY; AN ODD SHAPED PANEL IS CONSIDERED TO BE ONE IN WHICH THE SLAB TAPERS TO A SHARP ANGLE WHEN THE LENGTH TO WIDTH RATIO EXCEEDS 3 TO 1 OR WHEN A SLAB IS NEITHER SQUARE NOR RECTANGULAR.

JOINT LEGEND

- EXPANSION JOINT
- CONSTRUCTION JOINT
- SAWED DUMMY JOINT

FILE PATH: P:\08000\01150101\01150101.dwg PLOTTER: Alorix A3x4 Plotter PLOTTED DATE: 08/12/2024

1	REVISED FOR BID QUESTIONS	TKS	08/12/2024	AJA
				DESIGNED
				AJA
				DRAWN
				BWA
				CHECKED
NO.	REVISION	BY	DATE	CHECKED

**MIDLAND COUNTY
MIDLAND, TEXAS**

DUNAWAY
4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
Tel: 432.699.4889
[TX REG. F-1114]

STATE OF TEXAS
BRIAN W. ADKINS
100284
LICENSED PROFESSIONAL ENGINEER
PROJECT ENGINEER
AUGUST 12, 2024
DATE

MIDLAND COUNTY PRECINCT 2
SOUTH COUNTY ROAD 1180
MIDLAND COUNTY, TEXAS

TYPICAL CONCRETE SECTIONS

DA PROJECT
B009115.001

SHEET

3



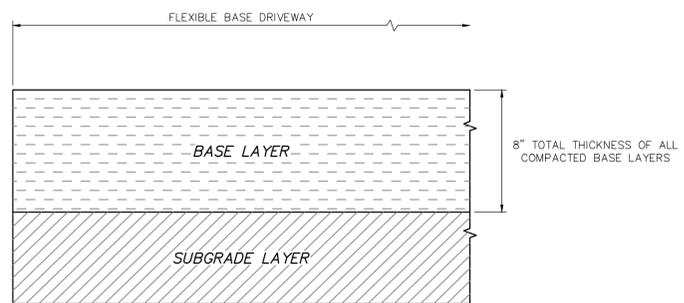
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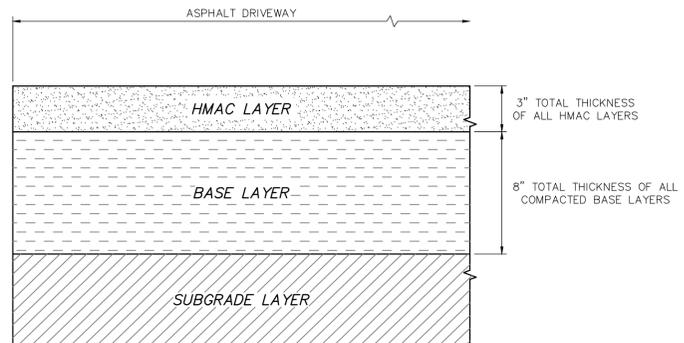
UTILITY RELOCATION NOTE:
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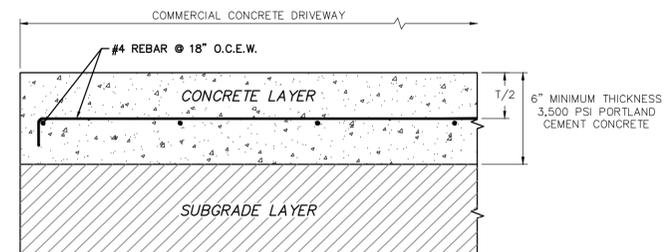
BENCHMARK:
SEE GENERAL NOTES (SHEET 1) FOR DETAILS.



TYPICAL FLEXIBLE BASE DRIVEWAY SECTION
NOT TO SCALE



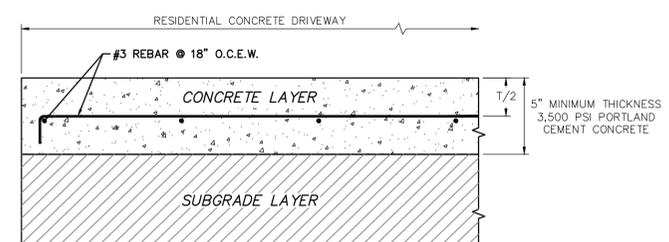
TYPICAL ASPHALT DRIVEWAY SECTION
NOT TO SCALE



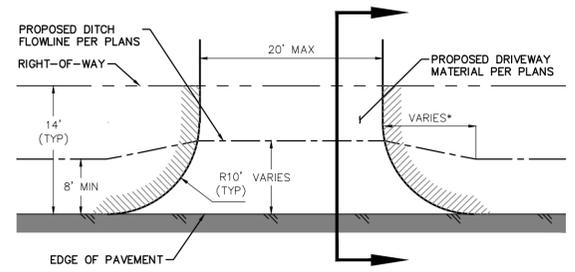
COMMERCIAL

TYPICAL CONCRETE DRIVEWAY SECTIONS
NOT TO SCALE

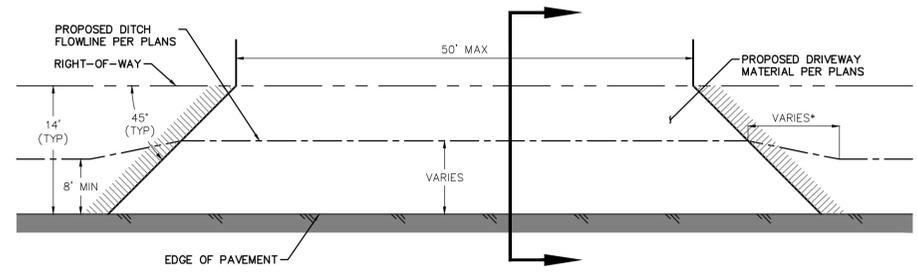
NOTE:
CONTRACTOR TO FOLLOW TYPICAL CONCRETE SECTIONS SHEET FOR JOINTING DETAILS AND NOTES.



RESIDENTIAL



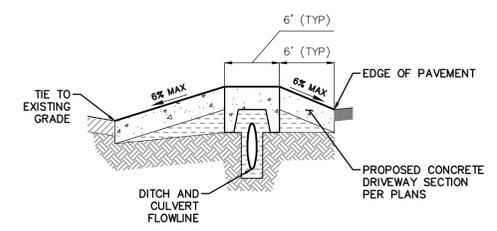
RESIDENTIAL PLAN VIEW



COMMERCIAL PLAN VIEW

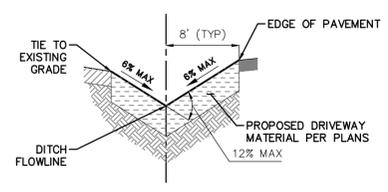
VARIES* - LENGTH TO PROVIDE A SMOOTH TRANSITION IN DITCH CENTERLINE. TYPICAL LENGTH OF 5' FOR EVERY 1' OF HORIZONTAL ADJUSTMENT (5:1).

TYPICAL DRIVEWAYS
NOT TO SCALE



CULVERT DRIVEWAY SECTION

- NOTES:
1. CONCRETE SECTION TO FOLLOW TYPICAL CONCRETE DRIVEWAY SECTIONS DETAIL, THIS SHEET.
 2. CONCRETE SECTION SHALL USE FOOTERS TO SPAN THE CULVERT(S) DITCH, PLACED ON UNDISTURBED SUB-GRADE OR COMPACTED BASE MATERIALS.
 3. MINIMUM CULVERT SIZE SHALL BE 12" OR EQUIVALENT.
 4. CULVERT MATERIAL SHALL BE REINFORCED CONCRETE, HIGH-DENSITY POLYETHYLENE, OR CORRUGATED METAL.
 5. CULVERT COVER SHALL MEET OR EXCEED MINIMUM PER MATERIAL MANUFACTURER OR 1-FOOT, WHICHEVER IS LESS.
 6. CULVERT COVER MAY BE REDUCED WITH USE OF RCP CLASS IV OR CONCRETE ENCASEMENT A MINIMUM OF 6-INCHES FROM OUTSIDE EDGE OF PIPE TO TRENCH WALLS.
 7. CULVERTS SHALL BE PLACED TO MAINTAIN POSITIVE DRAINAGE ALONG PROPERTY FRONTAGE.
 8. CONTRACTOR TO INSTALL SAFETY END TREATMENTS FOLLOWING TxDOT DETAIL SETP-PD, WHERE PRACTICABLE. IF A SETP-PD IS NOT FEASIBLE, CONTRACTOR TO INSTALL A SAFETY END TREATMENT FOR PIPE CULVERTS FROM TxDOT'S BRIDGE STANDARD DETAILS.
 9. MAXIMUM SLOPES OF THE DRIVEWAY MATERIALS FOR GRADES SHALL BE 8:1 IN ANY DIRECTION.



INVERTED FLOWLINE DRIVEWAY SECTION

- NOTES:
1. FLOW LINE FOR ROAD DITCH SHALL REMAIN WITHIN THE R.O.W.
 2. CONTRACTOR TO FIELD FIT DRIVEWAY FROM FLOW LINE TO CURRENT CONDITIONS ALONG THE R.O.W.
 3. IF DITCH CANNOT BE ACCOMMODATED WITHIN THE R.O.W. AT THE DEPTHS SHOWN ON THE PLAN AND PROFILE SHEETS, CONTRACTOR MAY INSTALL CULVERT(S) FOLLOWING THE CULVERT DRIVEWAY SECTION PER THIS DETAIL.

TYPICAL DRIVEWAY CROSS-SECTION
NOT TO SCALE

NO.	REVISION	BY	DATE	CHECKED

DUNAWAY	DESIGNED	N/A
DUNAWAY	DRAWN	N/A
BWA	CHECKED	

**MIDLAND COUNTY
MIDLAND, TEXAS**

SCALE	
HORIZ	N/A
VERT	N/A
DATE	MAY 2024

DUNAWAY
4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
Tel: 432.699.4889
[TX REG. F-1114]

STATE OF TEXAS
BRIAN W. ADKINS
100284
LICENSED PROFESSIONAL ENGINEER
PROJECT ENGINEER
MAY 9, 2024
DATE

MIDLAND COUNTY PRECINCT 2	DA PROJECT B009115.001
SOUTH COUNTY ROAD 1180 MIDLAND COUNTY, TEXAS	SHEET 4
TYPICAL DRIVEWAY SECTIONS	

FILE NAME: TYPICAL DRIVEWAY SECTIONS.dwg
 PLOTTED BY: Allison Adams
 PLOTTED DATE: 11/29/24 9:44 AM



WARNING TO CONTRACTOR:

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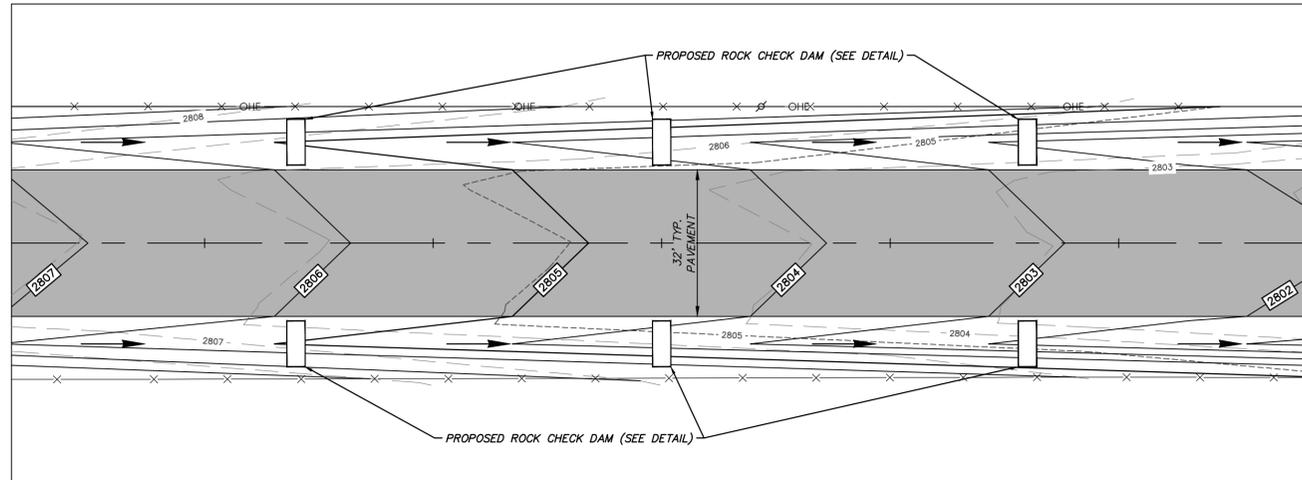
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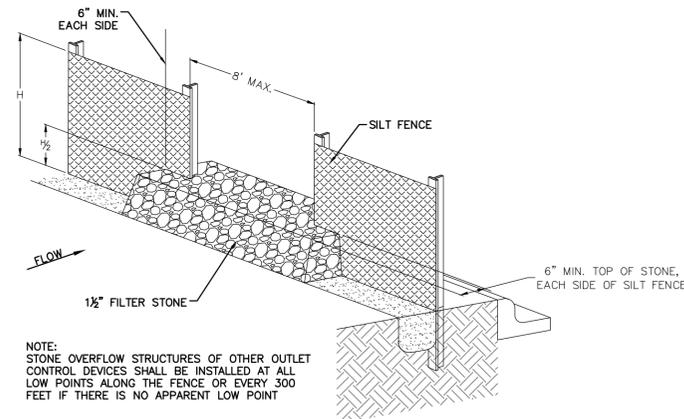
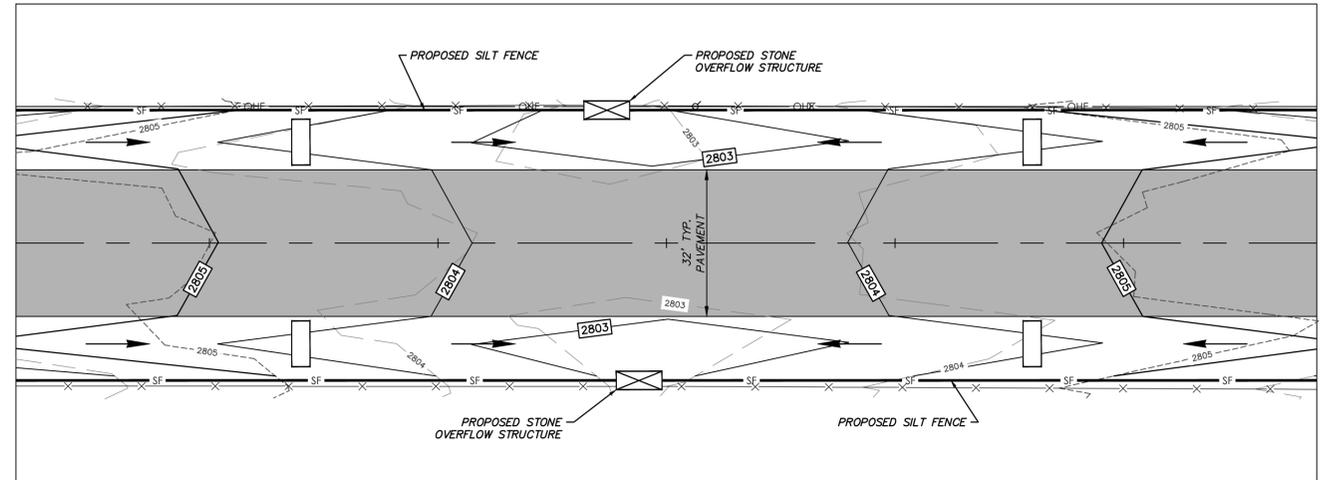
BENCHMARK:

SEE GENERAL NOTES (SHEET 1) FOR DETAILS.

TYPICAL EROSION CONTROL PLAN WITH ROADWAY DITCHES



TYPICAL EROSION CONTROL PLAN WITH DRAINAGE EXITING R.O.W.

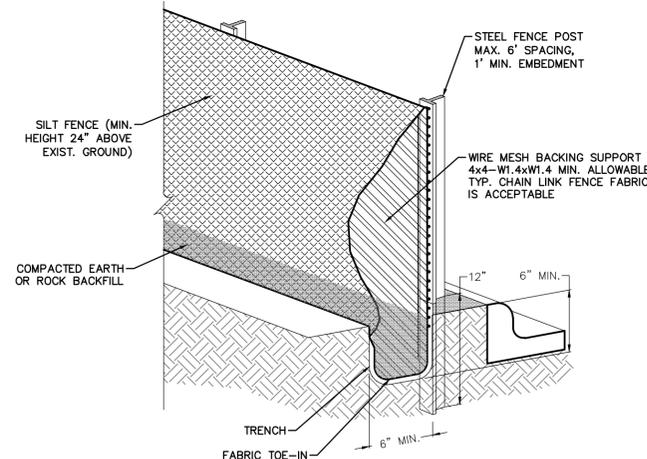


SILT FENCE STONE OVERFLOW STRUCTURE

NOT TO SCALE

SILT FENCE GENERAL NOTES:

- STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE. POST MUST BE EMBEDDED A MINIMUM OF ONE FOOT.
- THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPENDICULAR TO THE LINE OF FLOW. WHERE FENCE CANNOT BE TRENCHED IN (E.G. PAVEMENT), WEIGHT FABRIC FLAP WITH ROCK ON UPHILL SIDE TO PREVENT FLOW FROM SEEPING UNDER FENCE.
- THE TRENCH MUST BE A MINIMUM OF 6 INCHES DEEP AND 6 INCHES WIDE TO ALLOW FOR THE SILT FENCE FABRIC TO BE LAID IN THE GROUND AND BACKFILLED WITH COMPACTED MATERIAL.
- SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IN TURN IS ATTACHED TO THE STEEL FENCE POST. THERE SHALL BE A 3 FOOT OVERLAP, SECURELY FASTENED WHERE ENDS OF FABRIC MEET.
- INSPECTION SHALL BE MADE EVERY TWO WEEKS AND AFTER EACH 1/2" RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
- SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
- ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF HALF THE HEIGHT OF THE FENCE. THE SILT SHALL BE DISPOSED OF AT AN APPROVED SITE AND IN SUCH A MANNER AS TO NOT CONTRIBUTE TO ADDITIONAL SILTATION.

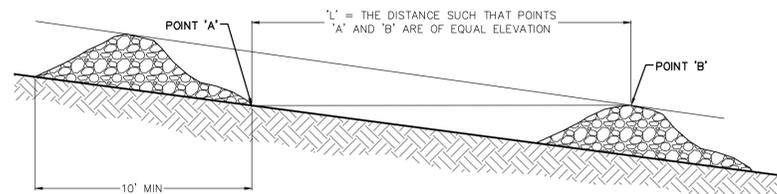
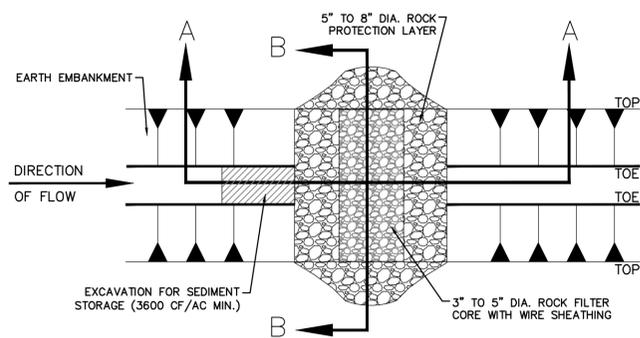


SILT FENCE

NOT TO SCALE

NOTES:

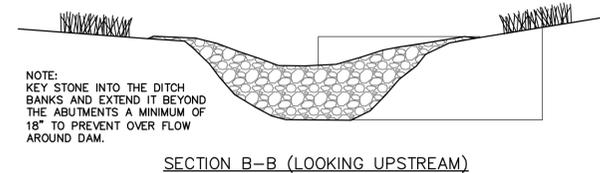
- EROSION CONTROL MEASURES MAY ONLY BE PLACED IN FRONT OF INLETS, IN CHANNELS, DRAINAGEWAYS, OR BORROW DITCHES AT RISK OF CONTRACTOR.
- CONTRACTOR SHALL REMAIN LIABLE FOR ANY DAMAGE CAUSED BY THE MEASURES, INCLUDING FLOODING DAMAGE, WHICH MAY OCCUR DUE TO BLOCKED DRAINAGE.
- AT THE CONCLUSION OF ANY PROJECT, ALL CHANNELS, DRAINAGEWAYS AND BORROW DITCHES IN THE WORK ZONE SHALL BE DREDGED OF ANY SEDIMENT GENERATED BY THE PROJECT OR DEPOSITED AS A RESULT OF EROSION CONTROL MEASURES.



SECTION A-A

ROCK CHECK DAM

NOT TO SCALE



SECTION B-B (LOOKING UPSTREAM)

EROSION CONTROL LEGEND

----- 2805 -----	EXISTING MAJOR CONTOUR
----- 2804 -----	EXISTING MINOR CONTOUR
----- 2805 -----	PROPOSED MAJOR CONTOUR
----- 2804 -----	PROPOSED MINOR CONTOUR
→	PROPOSED FLOW ARROW
— SF —	PROPOSED SILT FENCE
□	PROPOSED ROCK CHECK DAM
⊠	PROPOSED OVERFLOW STRUCTURE

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 PLOTTED AT: 11:25:54 AM
 FULL PATH: P:\08000\101530101\101530101.dwg

NO.	REVISION	BY	DATE	CHECKED

DUNAWAY	DESIGNED
DUNAWAY	DRAWN
BWA	CHECKED

**MIDLAND COUNTY
MIDLAND, TEXAS**

SCALE	
HORIZ	N/A
VERT	N/A
DATE	MAY 2024

DUNAWAY
 4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
 Tel: 432.699.4889
 [TX REG. F-1114]

STATE OF TEXAS
 BRIAN W. ADKINS
 100284
 LICENSED PROFESSIONAL ENGINEER
 PROJECT ENGINEER
 Brian W. Adkins
 MAY 9, 2024
 DATE

MIDLAND COUNTY PRECINCT 2
 SOUTH COUNTY ROAD 1180
 MIDLAND COUNTY, TEXAS
TYPICAL EROSION CONTROL

DA PROJECT	B009115.001
SHEET	5



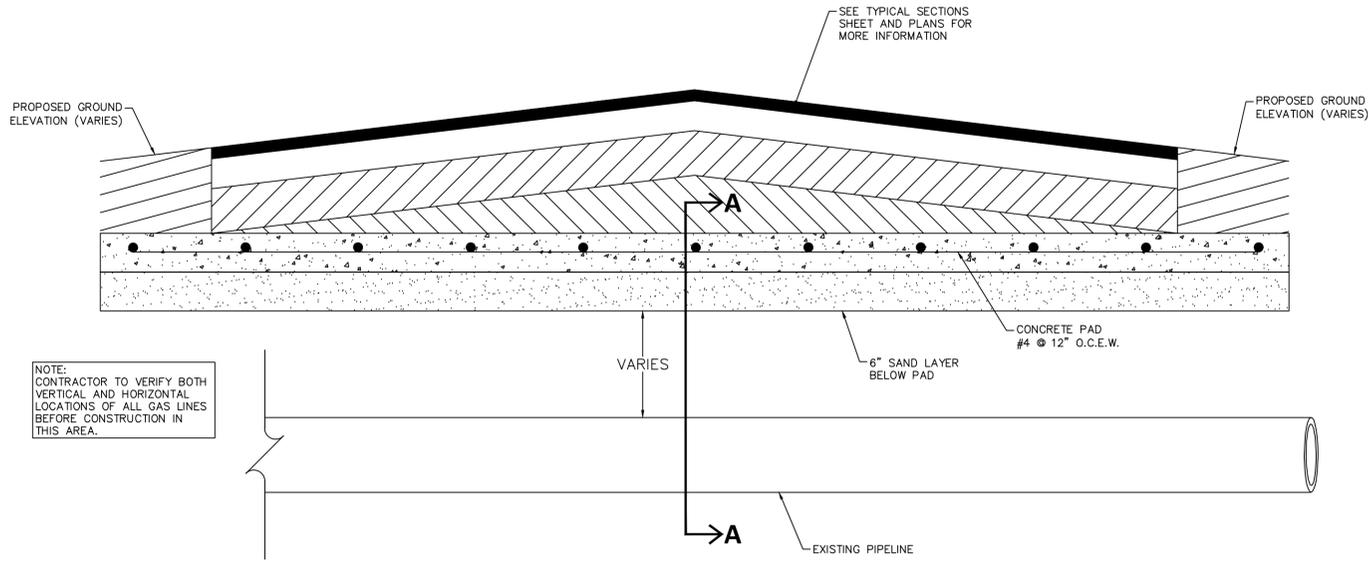
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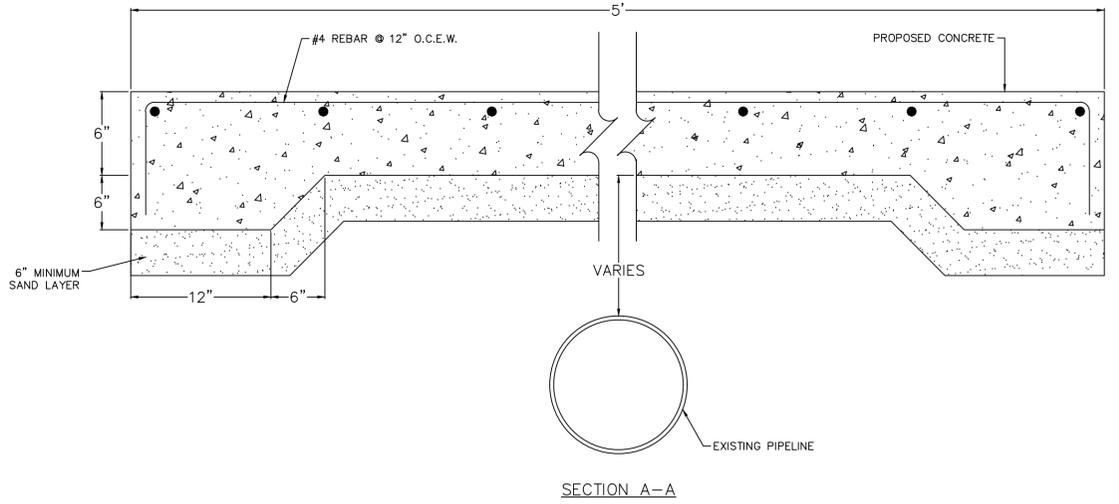
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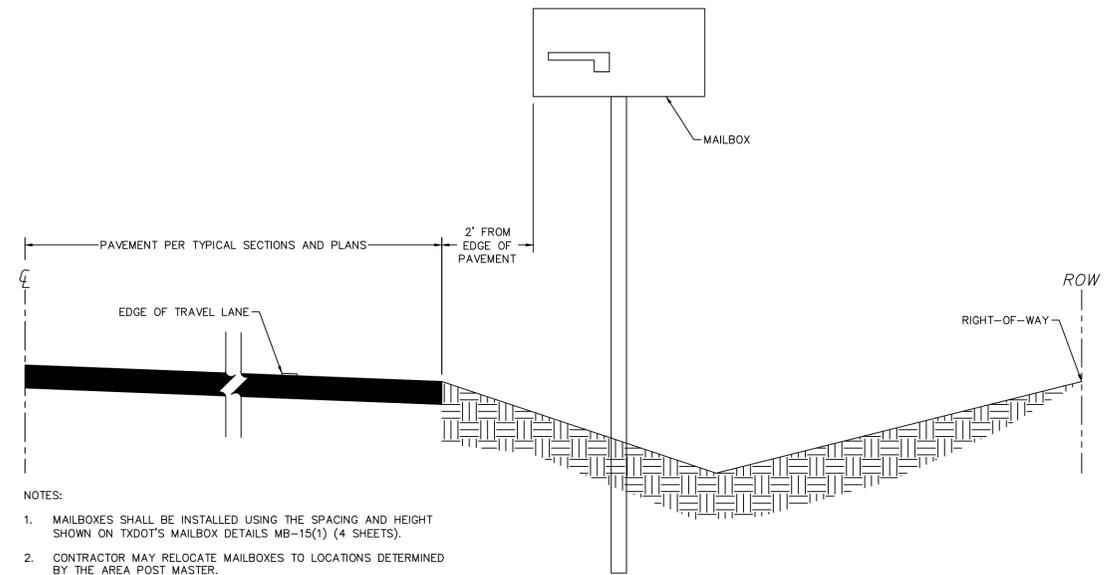


NOTE:
CONTRACTOR TO VERIFY BOTH VERTICAL AND HORIZONTAL LOCATIONS OF ALL GAS LINES BEFORE CONSTRUCTION IN THIS AREA.

- NOTES:
1. CONCRETE SHALL BE CLASS "A" AND SHALL HAVE A MINIMUM OF 5 SACKS OF CEMENT PER CUBIC YARD AND A MINIMUM 28 DAY COMPRESSION STRENGTH OF 3500 P.S.I.
 2. MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO TXDOT STANDARD SPECIFICATIONS.
 3. REINFORCEMENT SHALL BE #4 BARS AT 12" ON CENTER EACH WAY.
 4. CONTRACTOR TO VERIFY BOTH VERTICAL AND HORIZONTAL LOCATIONS OF ALL GAS LINES BEFORE CONSTRUCTION IN THIS AREA.
 5. WIDTH AND LOCATION TO BE BASED ON SLAB EXTENDED APPROXIMATELY 2'-6" BEYOND OUTSIDE PIPE ON BOTH SIDES
 6. CONTACT PIPELINE OWNER A MINIMUM OF 48 HOURS PRIOR TO WORKING IN THIS AREA.
 7. NO LESS THAN SIX INCHES OF SAND OR EQUIVALENT CUSHION BETWEEN THE BOTTOM OF THE SLAB AND TOP OF EXISTING PIPELINE.
 8. MINIMUM DEPTH OF COVER IS DETERMINED BY PIPELINE OPERATOR AND MUST BE VERIFIED BY CONTRACTOR. IF NOT ENOUGH COVER IS PROVIDED, CONTACT ENGINEER.



STANDARD CONCRETE CAP FOR PIPELINE CROSSINGS
NOT TO SCALE



- NOTES:
1. MAILBOXES SHALL BE INSTALLED USING THE SPACING AND HEIGHT SHOWN ON TXDOT'S MAILBOX DETAILS MB-15(1) (4 SHEETS).
 2. CONTRACTOR MAY RELOCATE MAILBOXES TO LOCATIONS DETERMINED BY THE AREA POST MASTER.

MINIMUM MAILBOX SPACING FROM EDGE OF PAVEMENT
NOT TO SCALE

FULL PATH: P:\08091015\08091015.dwg
 FILENAME: COUNTY DETAIL.dwg
 PLOTTED BY: Allison Adams
 PLOTTED AT: 11/27/2024

NO.	REVISION	BY	DATE

DUNAWAY DESIGNED	MIDLAND COUNTY MIDLAND, TEXAS	SCALE
DUNAWAY DRAWN		HORIZ N/A
BWA CHECKED		VERT N/A
		DATE MAY 2024

4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
 Tel: 432.699.4889
 [TX REG. F-1114]

Brian W. Adkins
 PROJECT ENGINEER
 MAY 9, 2024
 DATE

MIDLAND COUNTY PRECINCT 2	DA PROJECT B009115.001
SOUTH COUNTY ROAD 1180 MIDLAND COUNTY, TEXAS	SHEET
PIPE ENCASEMENT AND MAILBOX DETAILS	6

TYPE	TYPE 1	TYPE 2	TYPE 3	TYPE 4	TYPE 5	TYPE 6
Configuration	Multiple	Single or Double	Single or Double	Double	Multiple	Single
Mailbox Size	Outside Position: S or M Inside Position: S, M, L, XL, or LA	Single: S, M, L, XL, or LA Double: SS, SM, MM	Single: S, M, L, XL Double: SS, SM, MM	S, M, L, XL, or LA	Outside Position: S or M Inside Position: S, M, L, or XL	S, or M
Mailbox Post	4505725254 (Thin Walled Galvanized)	4505756104 (Thin Walled Galvanized)	5704432108 (Wing Channel Post)	4505756107 (Thin walled white powder coated) 45057561057 (Recycled Rubber Post: S or M only)	45057257409 (White Powder Coated Multiple)	444 Timber
Post and Mailbox Hardware	4505725909 (Wedge) 4505725500 (V-Wing Socket) 4505725302 (Bracket Extension) 4505725251 (Mailbox Bracket) 4505725801 (Part A Angle Bracket x2) 4505725255 (Plate Washer for XL/LA x2) 4505725263 (L-Bracket for XL x4)	8013023847 (Wedge Anchor) 4505725302 (Bracket Extension) 4505725251 (Mailbox Bracket) 4505725255 (Plate Washer for XL/LA x2) 4505725263 (L-Bracket for XL x4)	4505754163 (Type 3 Double Mailbox Bracket) 4505725221 (Mailbox Bracket) 4505725801 (Part A Angle Bracket) 4505725302 (Bracket Extension) 4505725802 (Part B Angle Bracket) 4505725255 (Plate Washer for XL/LA x2) 4505725251 (Mailbox Bracket for XL x4)	55083571053 (Wedge) 55083571004 (Socket) 4505725302 (Bracket Extension) 4505725255 (Plate Washer for XL/LA x2) 4505725251 (Mailbox Bracket)	55083571053 (Wedge) 55083571004 (Socket) 4505725302 (Bracket Extension) 4505725255 (Plate Washer for XL x2) 4505725251 (Mailbox Bracket)	None None None None None None
Foundation Used	Class B Concrete (Required for LA Mailboxes)	Class B Concrete (Required for LA Mailboxes)	None	Class B Concrete (not used with recycled rubber post, required for LA Mailboxes)	Class B Concrete	None

NIGP #	OBJECT MARKERS AND CONFORMABLE SHEETING
5500831759	Type 2 OM 4"x4" (3 Needed) for Type 3 Wing Channel Post
55008312906	Type 2 OM 6"x12" (1 Needed) for Type 3 Wing Channel Post
80149872006	12" Conformable Reflective Yellow Sheeting for Flexible Posts

NOTES:

- Type 2 object marker in accordance with Traffic Engineering Standard for Intersectors & Object Markers.
- A light weight receptacle for newspaper delivery can be attached to mail boxes. If the receptacle does not touch the mailbox, present a hazard to traffic or delivery of the mail, do not extend beyond the front of the mailbox, or display overhanging, except the publication title.

BID CODES FOR CONTRACTS

MB-(X) ASSM TY (XXX) (X)

Type of Mailbox:
S = Single
D = Double
M = Multiple
MP = Mailed Plastic

Type of Post:
WC = Winged Channel Post
RR = Recycled Rubber
TW = Thin Walled White Tubing
TWC = Thin Walled Galvanized Tubing
TIM = Timber

Type of Foundation:
Ty 1 = V-loc
Ty 2 = Wedge Anchor Steel System
Ty 3 = Winged Channel post
Ty 4 = Wedge Anchor Plastic System
Ty 5 = 4 x 4 Post

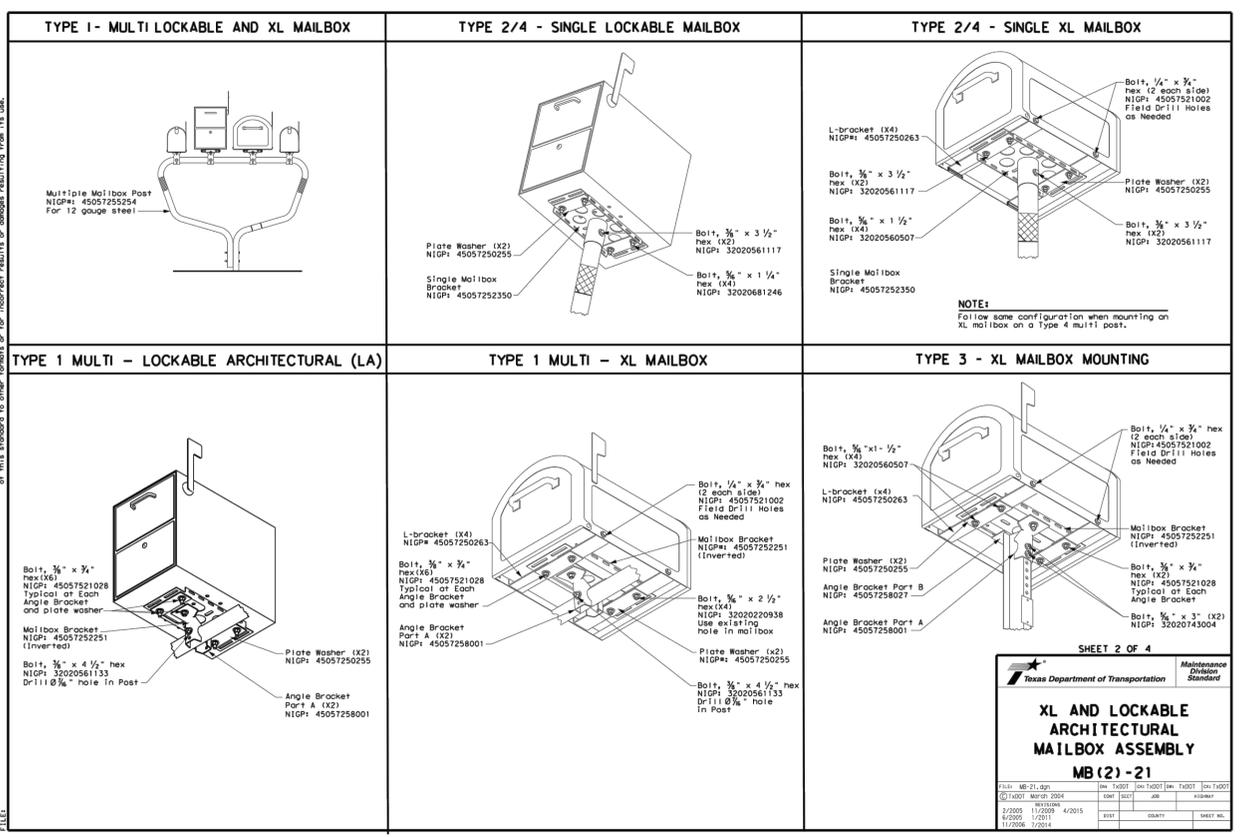
SHEET 4 OF 4

Texas Department of Transportation
Maintenance Division Standard

NIGP PARTS LIST AND COMPATIBILITY

MB (4) - 21

FILE	MB-21.dwg	REV	DATE	BY	CHKD	APP	REVISION
01/0001	March 2004						
2/2005	11/2009	4/2015					
11/2006	7/2014						



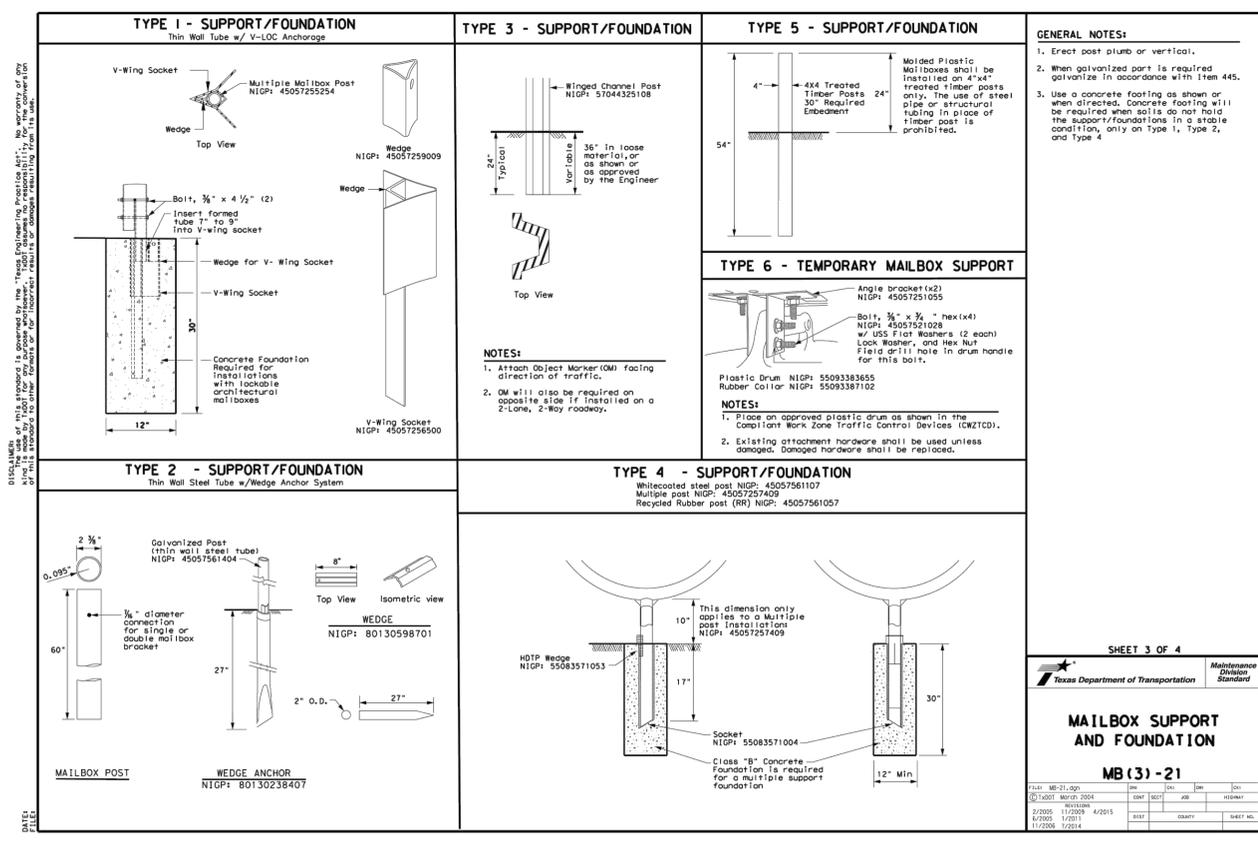
SHEET 2 OF 4

Texas Department of Transportation
Maintenance Division Standard

XL AND LOCKABLE ARCHITECTURAL MAILBOX ASSEMBLY

MB (2) - 21

FILE	MB-21.dwg	REV	DATE	BY	CHKD	APP	REVISION
01/0001	March 2004						
2/2005	11/2009	4/2015					
11/2006	7/2014						



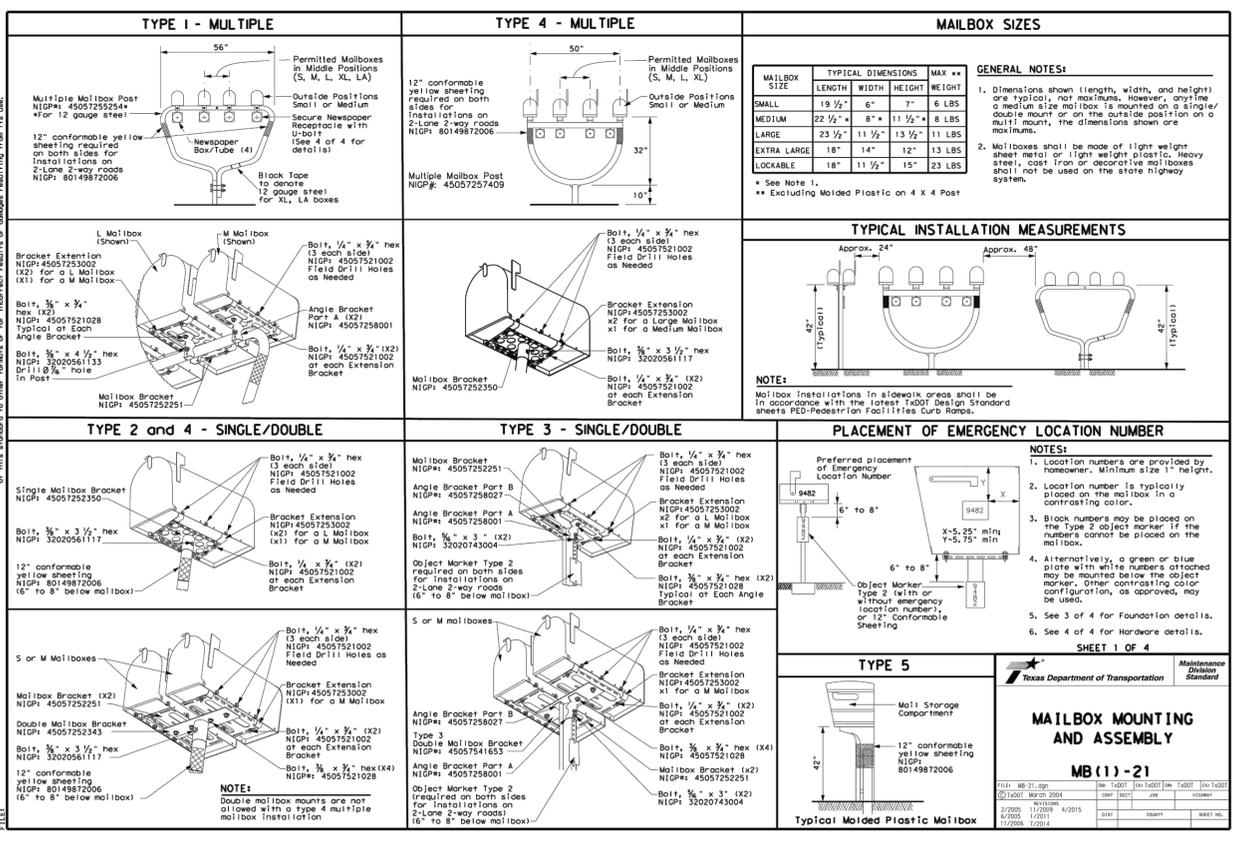
SHEET 3 OF 4

Texas Department of Transportation
Maintenance Division Standard

MAILBOX SUPPORT AND FOUNDATION

MB (3) - 21

FILE	MB-21.dwg	REV	DATE	BY	CHKD	APP	REVISION
01/0001	March 2004						
2/2005	11/2009	4/2015					
11/2006	7/2014						



NO.	REVISION	BY	DATE	CHECKED

SCALE	HORIZ	VERT
	N/A	N/A
DATE		

MIDLAND COUNTY PRECINCT 2

SOUTH COUNTY ROAD 1180

MIDLAND COUNTY, TEXAS

TxDOT MAILBOX DETAILS

DA PROJECT B009115.001

SHEET 7

DUNAWAY
4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
Tel: 432.699.4889
TX REG. F-1114

PROFESSIONAL ENGINEER
Bryan W. Adkins
MAY 9, 2024
DATE

FILENAME: P:\08000\08100\081001\081001.dwg
 PLOTTER: HP DesignJet 5000PS
 PLOTTED BY: BWA
 PLOTT DATE: 11/27/24

REQUIREMENTS FOR RED BACKGROUND REGULATORY SIGNS (STOP, YIELD, DO NOT ENTER AND WRONG WAY SIGNS)

REQUIREMENTS FOR WHITE BACKGROUND REGULATORY SIGNS (EXCLUDING STOP, YIELD, DO NOT ENTER AND WRONG WAY SIGNS)

REQUIREMENTS FOR FOUR SPECIFIC SIGNS ONLY

USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	RED	TYPE B OR C SHEETING
BACKGROUND	WHITE	TYPE B OR C SHEETING
LEGEND & BORDERS	WHITE	TYPE B OR C SHEETING
LEGEND & BORDERS	RED	TYPE B OR C SHEETING

REQUIREMENTS FOR WARNING SIGNS

REQUIREMENTS FOR SCHOOL SIGNS

GENERAL NOTES

- Signs to be furnished shall be as detailed elsewhere in the plans and/or as shown on sign fabrication sheet, Standard Sign Designs for Texas (SSDST).
- Sign legend shall use the Federal Highway Administration (FHWA) Standard Highway Alphabet (B, C, D, S, Space or F).
- Lateral spacing between letters and numerals shall conform with the SSDST, and any approved changes thereto. Lateral spacing of legend shall provide a balanced appearance when spacing is not shown.
- Black legend and borders shall be applied by screening process with transparent colored ink, transparent colored overlay film to white background sheeting or cut-out white sheeting to colored background sheeting, or combination thereof.
- Colored legend shall be applied by screening process with transparent colored ink, transparent colored overlay film or colored sheeting to background sheeting, or combination thereof.
- Sign substrate shall be any material that meets the Departmental Material Specification requirements for DMS-7110 or approved alternative.
- Mounting details for roadside mounted signs are shown in the "SMD series" Standard Sign Sheets.

ALUMINUM SIGN BLANKS THICKNESS

Square Feet	Minimum Thickness
Less than 7.5	0.080
7.5 to 15	0.100
Greater than 15	0.125

DEPARTMENTAL MATERIAL SPECIFICATIONS

ALUMINUM SIGN BLANKS	DMS-7110
SIGN FACE MATERIALS	DMS-8300

TYPICAL SIGN REQUIREMENTS

TSR (4) - 13

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Texas Department of Transportation
Traffic Operations Division

The Standard Highway Sign Designs for Texas (SSDST) can be found at the following website:
<http://www.txdot.gov>

TRIANGULAR SLIPBASE INSTALLATION GENERAL REQUIREMENTS

NOTE

There are various devices approved for the Triangular Slipbase System. Please reference the Material Producer List for approved slip base systems. The devices shall be installed per manufacturer's recommendations. Installation procedures shall be provided to the Engineer by Contractor.

GENERAL NOTES

- Slip base shall be permanently marked to indicate manufacturer, method, design, and location of marking as subject to approval of the TxDOT Traffic Operations Engineer.
- Material used as part of this system shall conform to the following specifications:
 - 100# Biting (0.875" outside diameter)
 - 0.134" nominal wall thickness
 - Seamless or electric-resistance welded steel tubing or pipe
 - Steel shall be A513 or 35 per ASTM A1011 or ASTM A1008
 - Other steels may be used if they meet the following:
 - 35,000 PSI minimum yield strength
 - 70,000 PSI minimum tensile strength
 - 200 minimum elongation in 2"
 - Wall thickness (uncoated) shall be within the range of 0.122" to 0.138"
 - Outside diameter (uncoated) shall be within the range of 0.867" to 2.893"
 - Galvanization per ASTM A153 or ASTM A653. For pre-coated steel tubing (ASTM A653), recast schedule 80 pipe (12.875" outside diameter)
 - 0.276" nominal wall thickness
 - Steel tubing per ASTM A500 or C
 - Other seamless or electric-resistance welded steel tubing or pipe with equivalent outside diameter and wall thickness may be used if they meet the following:
 - 42,000 PSI minimum yield strength
 - 62,000 PSI minimum tensile strength
 - 215 minimum elongation in 2"
 - Wall thickness (uncoated) shall be within the range of 0.285" to 0.304"
 - Outside diameter (uncoated) shall be within the range of 2.895" to 2.895"
 - Galvanization per ASTM A153
- See the Traffic Operations Division website for detailed drawings of sign clamps and Texas Universal Triangular Slipbase System components. The website address is: <http://www.txdot.gov/plan/location/traffic.htm>
- Sign supports shall not be bolted except where shown. Sign support posts shall not be bolted.

ASSEMBLY PROCEDURE

- Prepare 12-inch diameter by 42-inch deep hole. If solid rock is encountered, the depth of the hole may be reduced such that it is embedded a minimum of 18 inches into the solid rock.
- The Engineer may permit batches of concrete less than 2 cubic yards to be mixed with a portable, motor-or-pump concrete mixer. For small placements, less than 0.5 cubic yards, hand mixing in a suitable container may be allowed by Engineer. Concrete shall be Class II.
- Push the pipe end of the slip base into the center of the concrete. Rotate the stub and form until the stub is flush with the concrete to ensure good contact between the concrete and stub. Continue to work the stub into the concrete until it is between 2 to 4 inches above the ground.
- Place the stub. Allow a minimum of 48 hours to set, unless otherwise directed by the Engineer.
- The Triangular Slipbase System is a multifunctional and is designed to release when struck from any direction.

CONCRETE ANCHOR

Concrete anchor consists of 5/8" diameter steel bolt with one (1) end threaded on the upper end. Heavy hex nut per ASTM A563, and hardened washer per ASTM F436. The stub bolt shall have a minimum yield and ultimate tensile strength of 50 and 75 KSI, respectively. Nuts, bolts and washers shall be galvanized per Item 445, "Galvanizing." Adhesive type anchors shall have stud bolts installed with Type III epoxy per DMS-8100. Epoxies and Adhesives: Adhesive anchors are to be installed by Engineer. Concrete shall cure free per the manufacturer's recommendations. Top of bolt shall extend at least 1/4 inch with top of weight concrete with a 1 1/2" minimum embedment, shall have a minimum of 100 psi tensile and shear or expansion or adhesive type.

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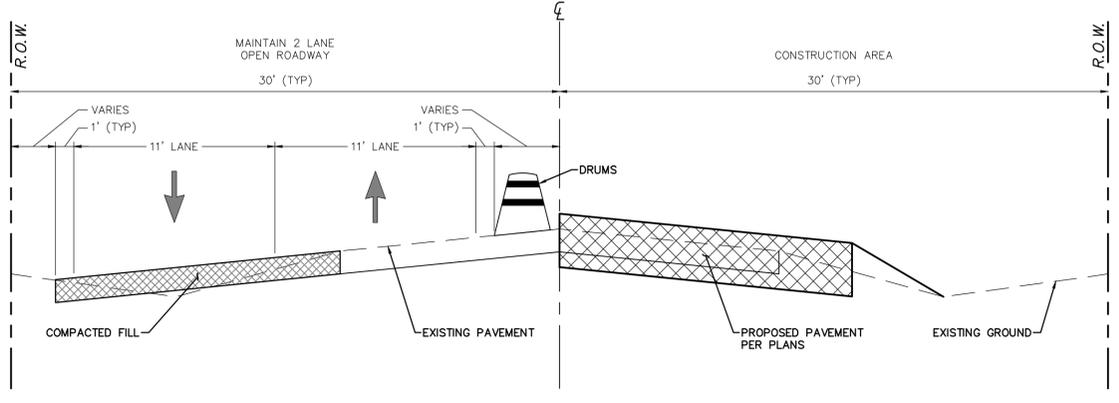
WARNING TO CONTRACTOR:
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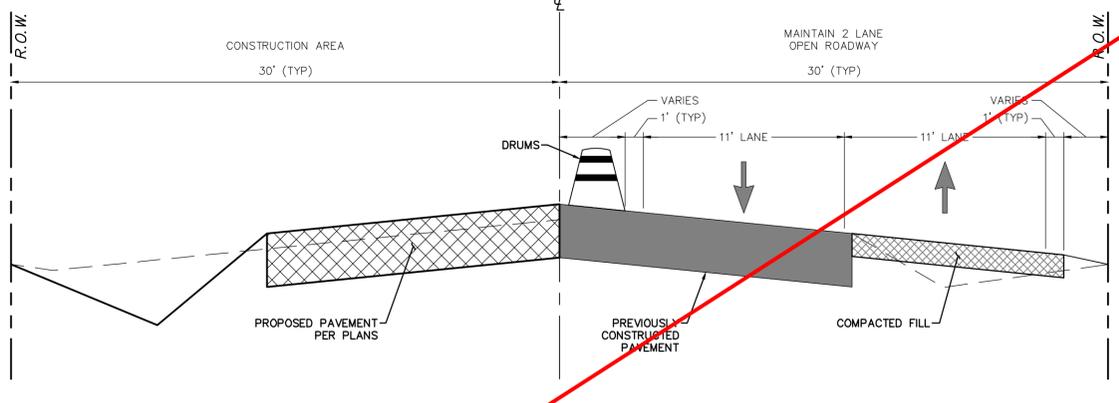
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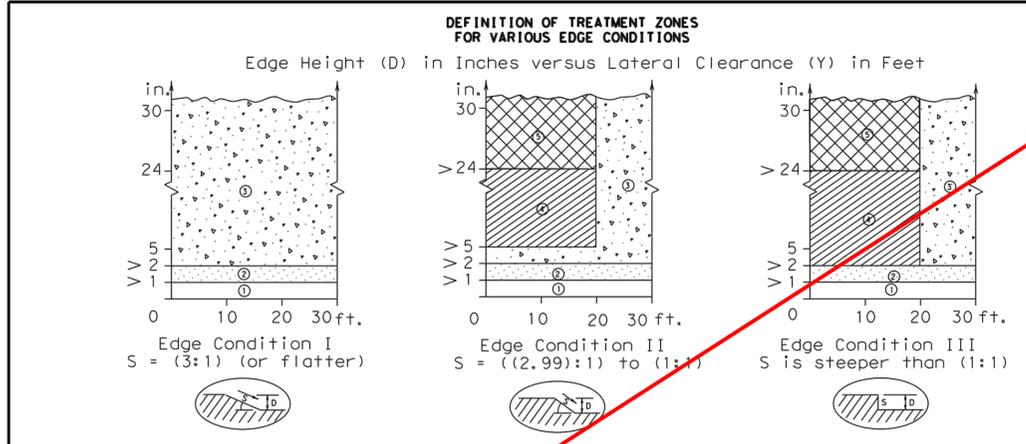
BENCHMARK:
SEE GENERAL NOTES (SHEET 1) FOR DETAILS.



TCP PHASE 1
NOT TO SCALE



TCP PHASE 2
NOT TO SCALE



Zone Treatment Types Guidelines:

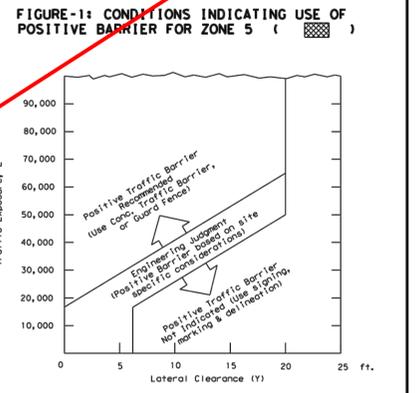
1	No treatment.
2	CW 8-11 "Uneven Lanes" signs.
3	CW 8-8a "Shoulder Drop-off" or CW 8-11 signs plus vertical panels.
4	CW 8-9a or CW 8-11, signs plus drums. Where restricted space precludes the use of drums, use vertical panels. An edge fill may be provided to change the edge slope to that of the preferable Edge Condition I.
5	Check indications (Figure-1) for positive barrier. Where positive barrier is not indicated, the treatment shown above for Zone-4 may be used after consideration of other applicable factors.

FACTORS CONSIDERED IN THE GUIDELINES:

- The "Edge Condition" is the slope (S) of the drop-off (H/V). The "Edge Height" is the depth of the drop-off "D".
- Distance "X" is to be the maximum practical under job conditions. Two feet minimum for high speed conditions. Distance "Y" is the lateral clearance from edge of travel lane to edge of dropoff. Distance "Z" does not have a minimum.
- In addition to the factors considered in the guidelines, each construction zone drop-off situation should be analyzed individually, taking into account other variables, such as: traffic mix, posted speed in the construction zone, horizontal curvature, and the practicality of the treatment options.
- The conditions for indicating the use of positive or protective barriers are given by Zones 5 and Figure-1. Traffic barriers are primarily applicable for high speed conditions. Urban areas with speeds of 30 mph or less may have a lesser need for signing, delineation, and barriers. Right-angled edges, however, with "D" greater than 2 inches and located within a lateral offset of 6 feet, may indicate a higher level of treatment.
- If the distance "Y" must be less than 3 feet, the use of a positive barrier may not be feasible. In such a case, consider either: 1) narrowing the lanes to a desired 11 to 12 feet or 10 foot minimum (see CW2-8 sign), or 2) provide an edge slope such as Edge Condition 1.

Edge Condition Notes:

- Edge Condition I: Most vehicles are able to traverse an edge condition with a slope rate of 13 to 11 or flatter. The slope must be constructed with a compacted material capable of supporting vehicles.
- Edge Condition II: Most vehicles are able to traverse an edge condition with a slope between (2.99 to 1) and (1 to 1) so long as "D" does not exceed 5 inches. Under-carriage drag on most automobiles will occur when "D" exceeds 6 inches. As "D" exceeds 24 inches, the possibility for rollover is greater in most vehicles.
- Edge Condition III: When slopes are greater than (1 to 1) and where "D" is greater than 2 inches, a more difficult control factor may exist for some vehicles. If not properly treated, for example, where "D" is greater than 2 inches and up to 24 inches different types of vehicles may experience different steering control at different edge heights. Automobiles might experience more steering control differential when "D" is greater than 2 inches and up to 5 inches. Trucks, particularly those with high loads, have more steering control differential when "D" is greater than 5 inches and up to 24 inches. When "D" exceeds 24 inches, the possibility of rollover is greater for most vehicles.
- Milling or overlay operations that result in Edge Condition III should not be in place without appropriate warning treatments, and these conditions should not be left in place for extended periods of time.



- E = ADT x T where ADT is that portion of the average daily traffic volume traveling within 20 feet (generally two adjacent lanes) of the edge dropoff condition, and T is the duration time in years of the dropoff condition.
- Figure-1 provides a practical approach to the use of positive barriers for the protection of vehicles from pavement drop-offs. Other factors, such as the presence of heavy machinery, construction workers, or the mix and volume of traffic may make the use of positive barriers appropriate, even when the edge condition alone may not justify the use of a barrier.
- An approved and treatment should be provided for any positive barrier and located within a lateral offset of 20 feet from the edge of the travel lane.

These guidelines apply to temporary traffic control areas or work zones where continuous pavement edges or drop-offs exist parallel and adjacent to a lane used by traffic. The edge conditions may be present between shoulders and travel lanes, between adjacent or opposing travel lanes, or at intermediate points across the width of the paved surface. Due to the variability in construction operations, tolerances in the variables may be allowed by the engineer. These guidelines do not apply to short term operations. These guidelines do not constitute a rigid standard or policy; rather, they are guidance to be used in conjunction with engineering judgement. These guidelines may be updated on the Design Division's on-line manual.



Texas Department of Transportation
Traffic Operations Division

TREATMENT FOR VARIOUS EDGE CONDITIONS

NO.	REVISIONS	DATE	BY	DATE
03-01	08-01 correct types			

- SUGGESTED SEQUENCE OF WORK**
- TCP PHASE 1 TRAFFIC:**
- REMOVE EXISTING TRAFFIC CONTROL AND LANE MARKINGS AS REQUIRED.
 - INSTALL TWO LANE, TWO-WAY TRAFFIC CONTROL. SHIFT TRAFFIC LANES TO LEFT SIDE TO ALLOW FOR CONSTRUCTION OPERATIONS ON RIGHT SIDE.
 - MAINTAIN REMAINING EXISTING TRAFFIC CONTROL.
- TCP PHASE 2 TRAFFIC:**
- REMOVE EXISTING TRAFFIC CONTROL AND LANE MARKINGS AS REQUIRED.
 - INSTALL TWO LANE, TWO-WAY TRAFFIC CONTROL. SHIFT TRAFFIC LANES TO RIGHT SIDE TO ALLOW FOR CONSTRUCTION OPERATIONS ON LEFT SIDE.
 - MAINTAIN REMAINING EXISTING TRAFFIC CONTROL.

- CONSTRUCTION:**
- INSTALL TEMPORARY COMPACTED BASE AS REQUIRED. CONTRACTOR TO HAUL IN BASE MATERIAL TO MAINTAIN 12' OF DRIVABLE SURFACE (11' LANE PLUS 1' SHOULDER).
 - REMOVE EXISTING HMAC PAVEMENT AND OTHER OBSTRUCTIONS AS REQUIRED ON RIGHT SIDE.
 - BEGIN CONSTRUCTION OF PROPOSED PAVEMENT ON RIGHT SIDE.
 - INSTALL TEMPORARY SIGNS AND PAVEMENT MARKINGS.
- CONSTRUCTION:**
- INSTALL TEMPORARY COMPACTED BASE AS REQUIRED. CONTRACTOR TO HAUL IN BASE MATERIAL TO MAINTAIN 12' OF DRIVABLE SURFACE (11' LANE PLUS 1' SHOULDER).
 - REMOVE EXISTING HMAC PAVEMENT AND OTHER OBSTRUCTIONS AS REQUIRED ON LEFT SIDE.
 - BEGIN CONSTRUCTION OF PROPOSED PAVEMENT ON LEFT SIDE.
 - INSTALL PROPOSED SIGNS AND PAVEMENT MARKINGS.
 - COMPLETE CLEAN UP.

LEGEND

	PROPOSED PAVEMENT CURRENT PHASE
	COMPACTED FILL
	PREVIOUSLY CONSTRUCTED PAVEMENT

NO.	REVISION	BY	DATE	CHECKED

AJA	DESIGNED	
AJA	DRAWN	
BWA	CHECKED	

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ N/A
VERT N/A
DATE
MAY 2024

DUNAWAY

4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
Tel: 432.699.4889
(TX REG. F-1114)

Professional Engineer's Seal for Brian W. Adkins, State of Texas, License No. 100284, dated MAY 9, 2024.

MIDLAND COUNTY PRECINCT 2
SOUTH COUNTY ROAD 1180
MIDLAND COUNTY, TEXAS

TRAFFIC CONTROL PLAN
SEQUENCE OF WORK

DA PROJECT B009115.001
SHEET 13



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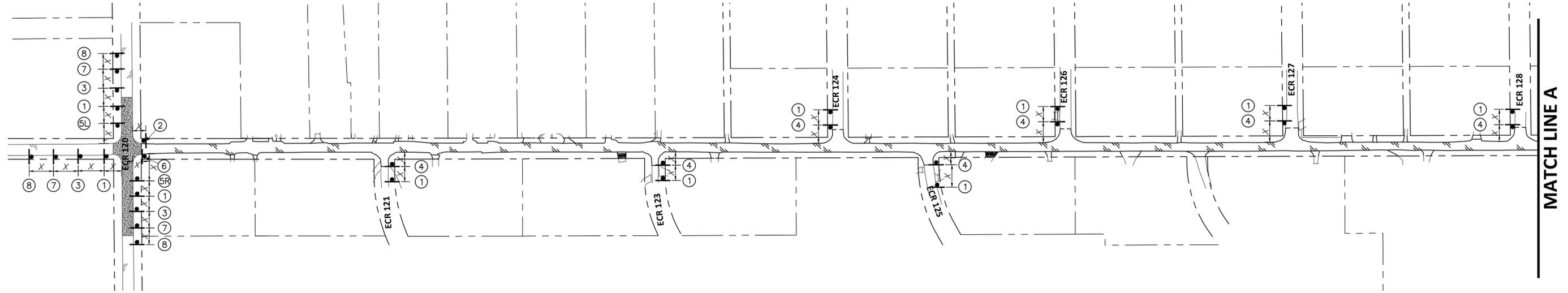
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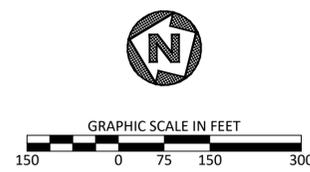
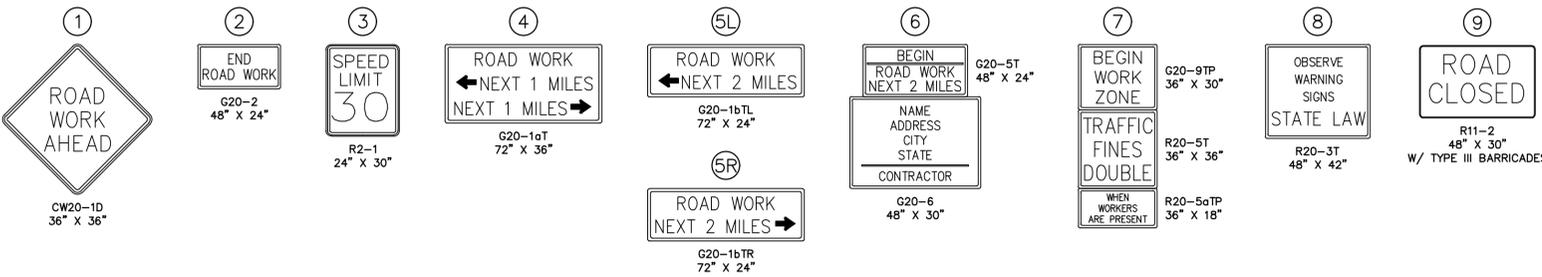
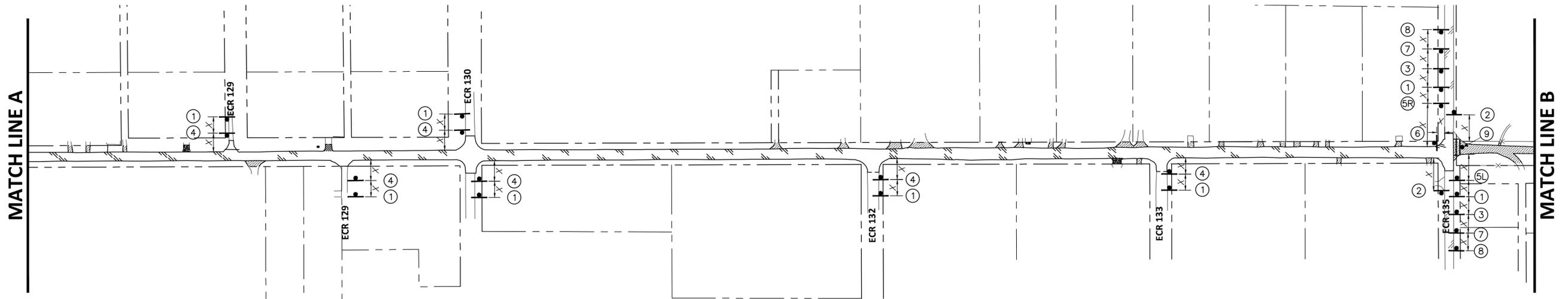
BENCHMARK:

SEE GENERAL NOTES (SHEET 1) FOR DETAILS.

SOUTH COUNTY ROAD 1180



SOUTH COUNTY ROAD 1180



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 4. "X" REFER TO BC(2)-21 FOR SPACING.
 5. WORK ALONG ROADWAY SHALL BE DURING DAYLIGHT HOURS ACCORDING TO TXDOT STANDARDS TCP(2-3)-23. BOTH LANES OF TRAFFIC WILL REMAIN OPEN DURING CONSTRUCTION.

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 PLOTTED AT: 11:28:59 AM
 DATE: 07/20/24

NO.	REVISION	BY	DATE

AJA	DESIGNED
AJA	DRAWN
BWA	CHECKED

SCALE	HORIZ	1" = 150'
	VERT	N/A
	DATE	MAY 2024

DUNAWAY
 4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
 Tel: 432.699.4889
 [TX REG. F-1114]

STATE OF TEXAS
 BRIAN W. ADKINS
 100284
 LICENSED PROFESSIONAL ENGINEER
 PROJECT ENGINEER
 MAY 9, 2024
 DATE

MIDLAND COUNTY PRECINCT 2	DA PROJECT	B009115.001
SOUTH COUNTY ROAD 1180 MIDLAND COUNTY, TEXAS	SHEET	14
TRAFFIC CONTROL PLAN ADVANCED WARNING SIGNS 1 OF 2		



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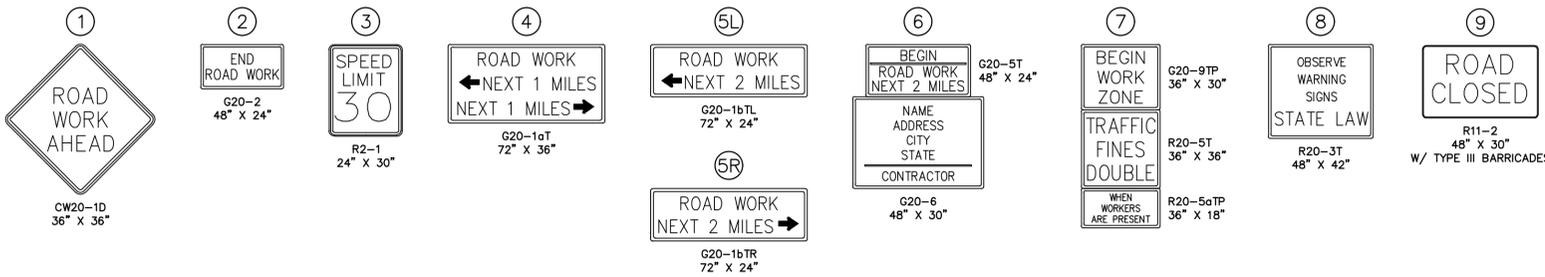
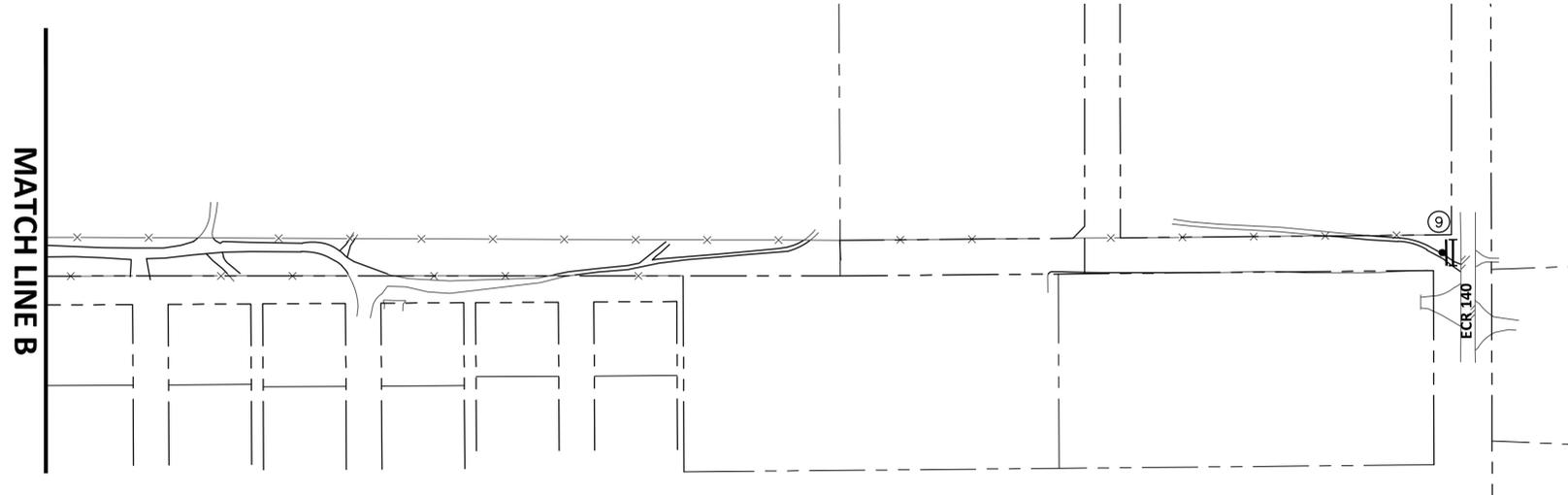
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SOUTH COUNTY ROAD 1180



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NO.	REVISION	BY	DATE

AJA	DESIGNED
AJA	DRAWN
BWA	CHECKED

**MIDLAND COUNTY
MIDLAND, TEXAS**

SCALE
HORIZ 1" = 150'
VERT N/A
DATE MAY 2024

4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
Tel: 432.699.4889
[TX REG. F-1114]

Brian W. Adkins
PROJECT ENGINEER
MAY 9, 2024
DATE

MIDLAND COUNTY PRECINCT 2	DA PROJECT B009115.001
SOUTH COUNTY ROAD 1180 MIDLAND COUNTY, TEXAS	SHEET
TRAFFIC CONTROL PLAN ADVANCED WARNING SIGNS 2 OF 2	15



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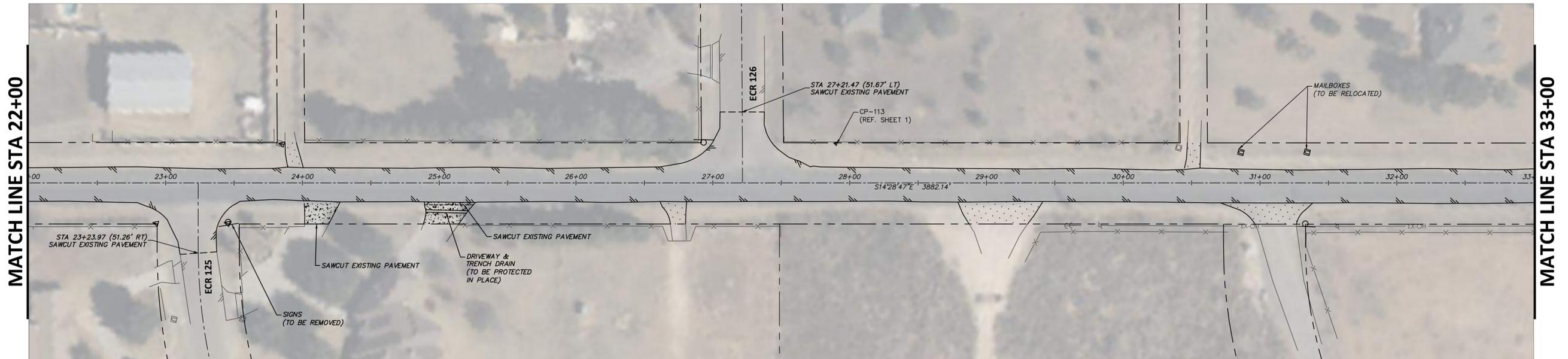
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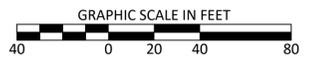
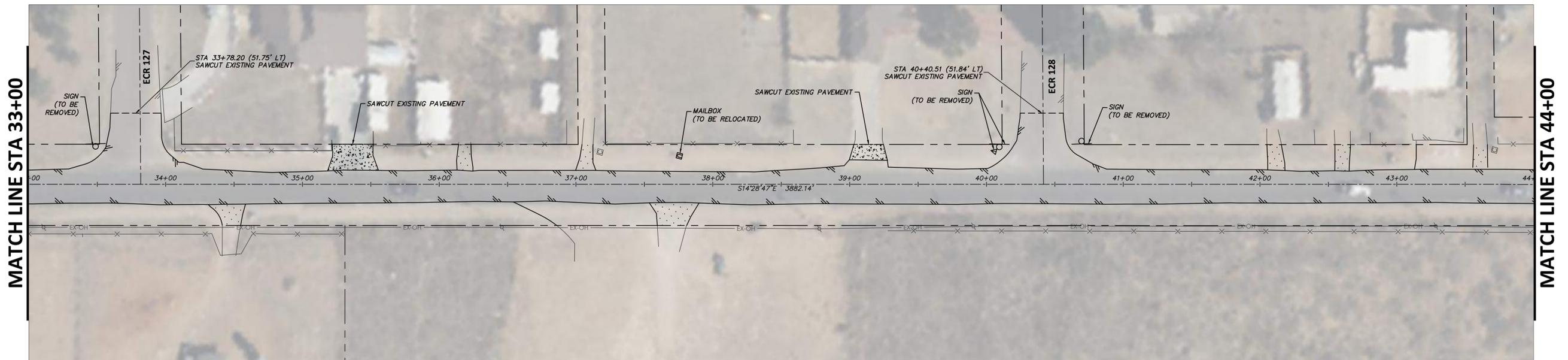
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SOUTH COUNTY ROAD 1180



SOUTH COUNTY ROAD 1180



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FILENAME: OVERALL ROADWAY STATIONING.dwg
PLOTTER: A3000 Plotter
PLOT DATE: 05/07/2024

NO.	REVISION	BY	DATE

AJA	DESIGNED
AJA	DRAWN
BWA	CHECKED

**MIDLAND COUNTY
MIDLAND, TEXAS**

SCALE
HORIZ 1" = 40'
VERT N/A
DATE MAY 2024

DUNAWAY
4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
Tel: 432.699.4889
[TX REG. F-1114]

STATE OF TEXAS
BRIAN W. ADKINS
100284
LICENSED PROFESSIONAL ENGINEER
Brian W. Adkins
PROJECT ENGINEER
MAY 9, 2024
DATE

MIDLAND COUNTY PRECINCT 2	DA PROJECT B009115.001
SOUTH COUNTY ROAD 1180 MIDLAND COUNTY, TEXAS	SHEET
OVERALL ROADWAY STATIONING STA 22+00 TO 44+00	17



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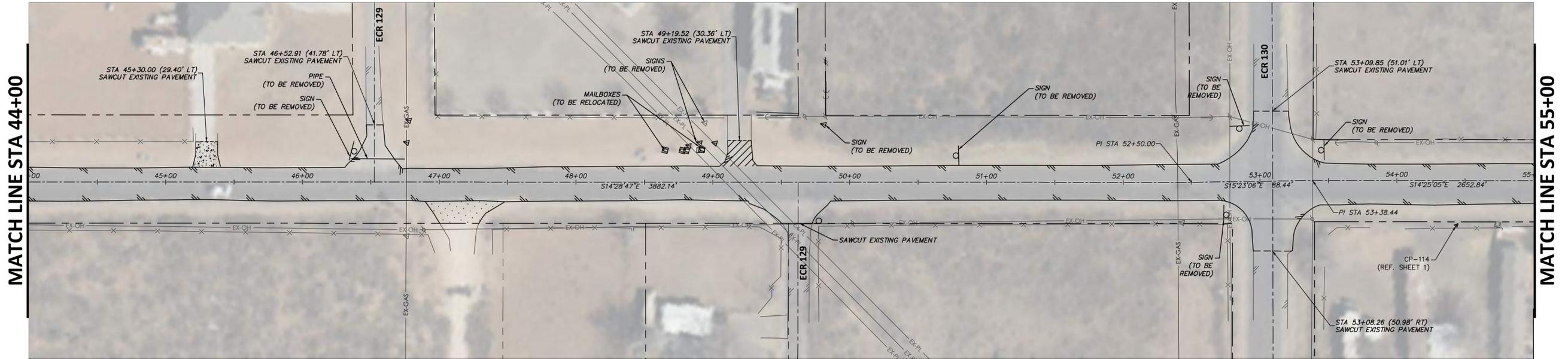
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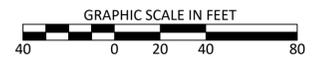
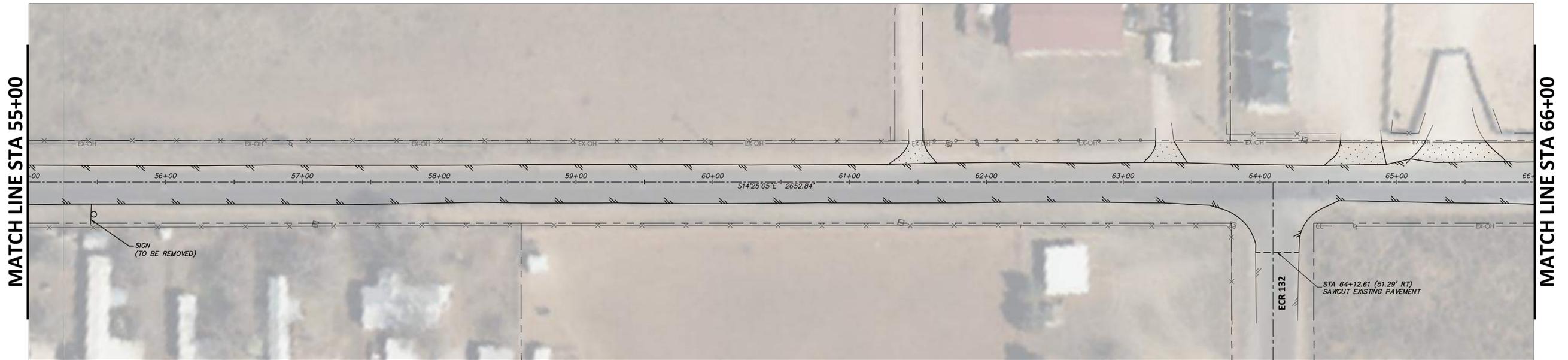
BENCHMARK:

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SOUTH COUNTY ROAD 1180



SOUTH COUNTY ROAD 1180



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 PLOTTED BY: Aileen Adams
 PLOTTED DATE: 05/07/2024

NO.	REVISION	BY	DATE

DESIGNED	AJA
DRAWN	AJA
CHECKED	BWA

**MIDLAND COUNTY
MIDLAND, TEXAS**

SCALE	1" = 40'
HORIZ	N/A
VERT	N/A
DATE	MAY 2024

DUNAWAY
 4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
 Tel: 432.699.4889
 [TX REG. F-1114]



MIDLAND COUNTY PRECINCT 2
 SOUTH COUNTY ROAD 1180
 MIDLAND COUNTY, TEXAS
**OVERALL ROADWAY STATIONING
 STA 44+00 TO 66+00**

DA PROJECT
 B009115.001
 SHEET
18



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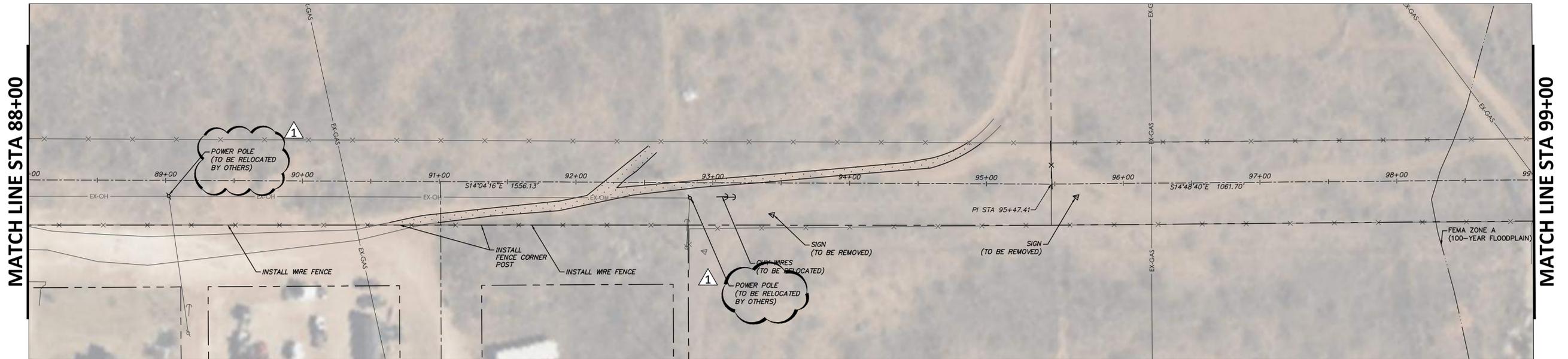
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SOUTH COUNTY ROAD 1180



SOUTH COUNTY ROAD 1180



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1	PRE BID QUESTIONS	TKS	08/05/2024	AJA
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				CHECKED
NO.	REVISION	BY	DATE	

**MIDLAND COUNTY
MIDLAND, TEXAS**

SCALE
HORIZ
1" = 40'
VERT
N/A
DATE
MAY
2024

4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
Tel: 432.699.4889
[TX REG. F-1114]

Brian W. Adkins
PROJECT ENGINEER
AUGUST 5, 2024
DATE

MIDLAND COUNTY PRECINCT 2
SOUTH COUNTY ROAD 1180
MIDLAND COUNTY, TEXAS

OVERALL ROADWAY STATIONING
STA 88+00 TO END

DA PROJECT
B009115.001

SHEET
20



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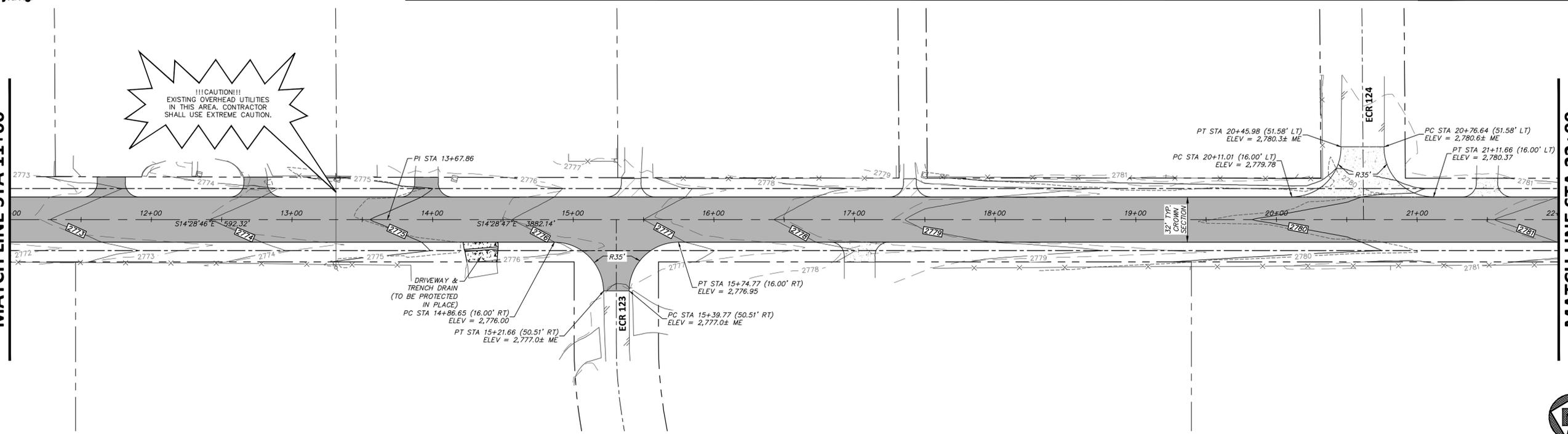
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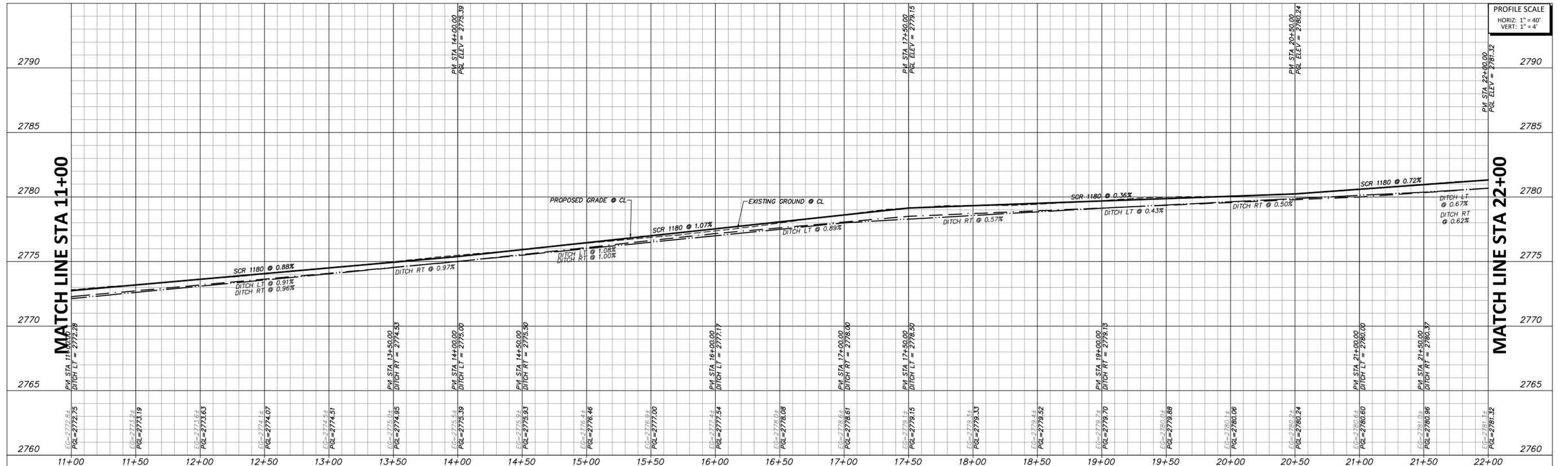
MATCH LINE STA 11+00

MATCH LINE STA 22+00

!!!CAUTION!!!
EXISTING OVERHEAD UTILITIES
IN THIS AREA. CONTRACTOR
SHALL USE EXTREME CAUTION.



SOUTH COUNTY ROAD 1180



FILE NAME: P:\080000\10150101\10150101.dwg
 PLOTTED BY: Amir Adnan
 PLOTTED AT: 10:35:41 AM

NO.	REVISION	BY	DATE	CHECKED

**MIDLAND COUNTY
MIDLAND, TEXAS**

SCALE
 HORIZ
 1" = 40'
 VERT
 1" = 4'
 DATE
 MAY
 2024

DUNAWAY
 4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
 Tel: 432.699.4889
 [TX REG. F-1114]

Brian W. Adkins
 PROJECT ENGINEER
 MAY 9, 2024
 DATE

**MIDLAND COUNTY PRECINCT 2
SOUTH COUNTY ROAD 1180
MIDLAND COUNTY, TEXAS**
**PLAN AND PROFILE
STA 11+00 TO 22+00**

DA PROJECT
 B009115.001
 SHEET
22



WARNING TO CONTRACTOR:

CALL 811 (TEXAS 811) OR OTHER UTILITY LOCATING SERVICES 48 HOURS PRIOR TO CONSTRUCTION ACTIVITY. DUNAWAY ASSOC., L.P. IS NOT RESPONSIBLE FOR KNOWING ALL EXISTING UTILITIES OR DEPICTING EXACT LOCATIONS OF UTILITIES ON DRAWINGS.

CRITICAL:

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UTILITY RELOCATION NOTE:

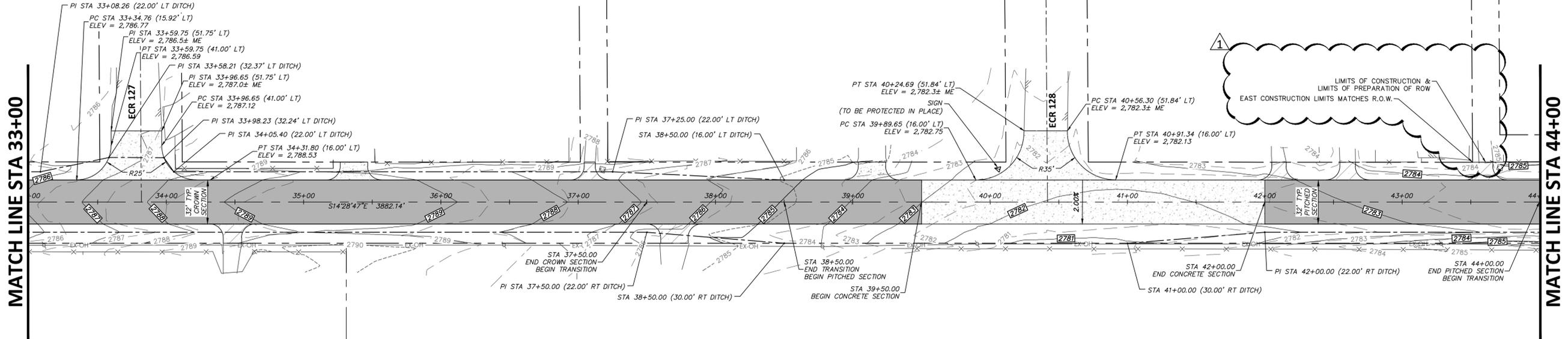
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STATE PLANE COORDINATE NOTE:

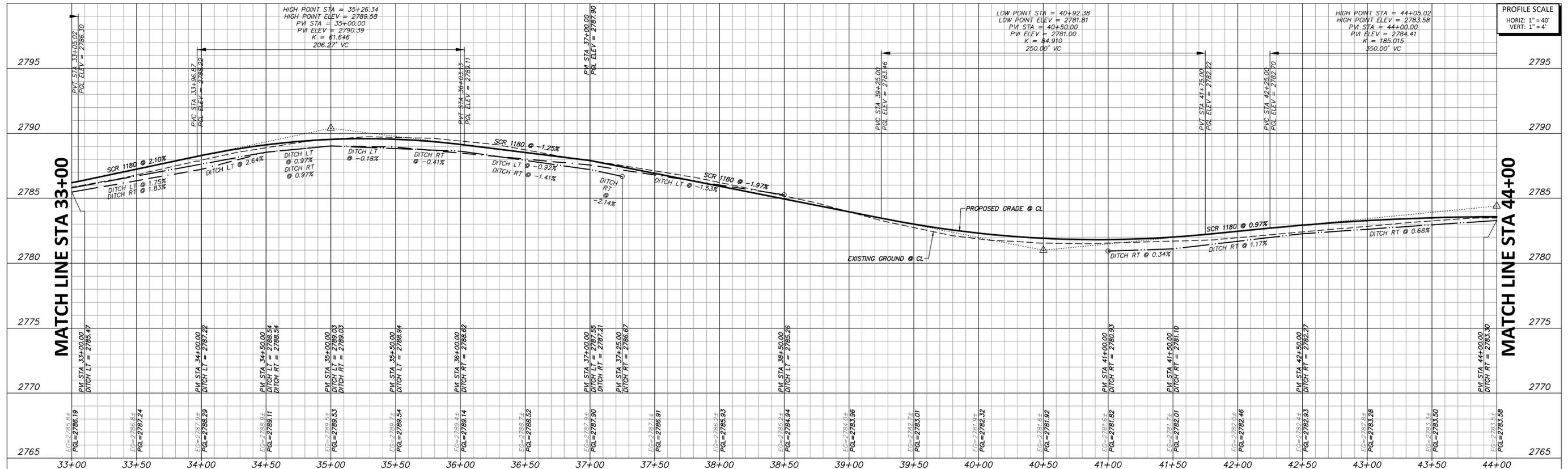
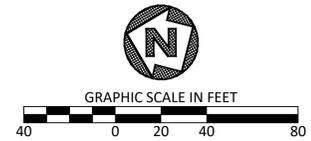
COORDINATES PROVIDED ARE RELATIVE TO THE TEXAS STATE PLANE COORDINATE SYSTEM (NAD83), CENTRAL ZONE 4203; ALL COORDINATES, BEARINGS, AND DISTANCES ARE NAD83 GRID VALUES.

BENCHMARK:

SEE GENERAL NOTES (SHEET 1) FOR DETAILS.



SOUTH COUNTY ROAD 1180



FILE NAME: R000_P00.dwg
 PLOTTED BY: TNS
 PLOTTED DATE: 08/05/2024
 PLOTTED AT: MIDLAND, TX

NO.	REVISION	BY	DATE
1	PRE BID QUESTIONS	TKS	08/05/2024

SCALE	CHECKED
HORIZ 1" = 40'	AJA
VERT 1" = 4'	DESIGNED
DATE	AWA
MAY 2024	DRAWN
	BWA

**MIDLAND COUNTY
MIDLAND, TEXAS**

DUNAWAY

4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
Tel: 432.699.4889
[TX REG. F-1114]

STATE OF TEXAS
BRIAN W. ADKINS
100284
LICENSED PROFESSIONAL ENGINEER

Brian W. Adkins
PROJECT ENGINEER
AUGUST 5, 2024
DATE

MIDLAND COUNTY PRECINCT 2
SOUTH COUNTY ROAD 1180
MIDLAND COUNTY, TEXAS

PLAN AND PROFILE
STA 33+00 TO 44+00

DA PROJECT
B009115.001

SHEET
24



WARNING TO CONTRACTOR:
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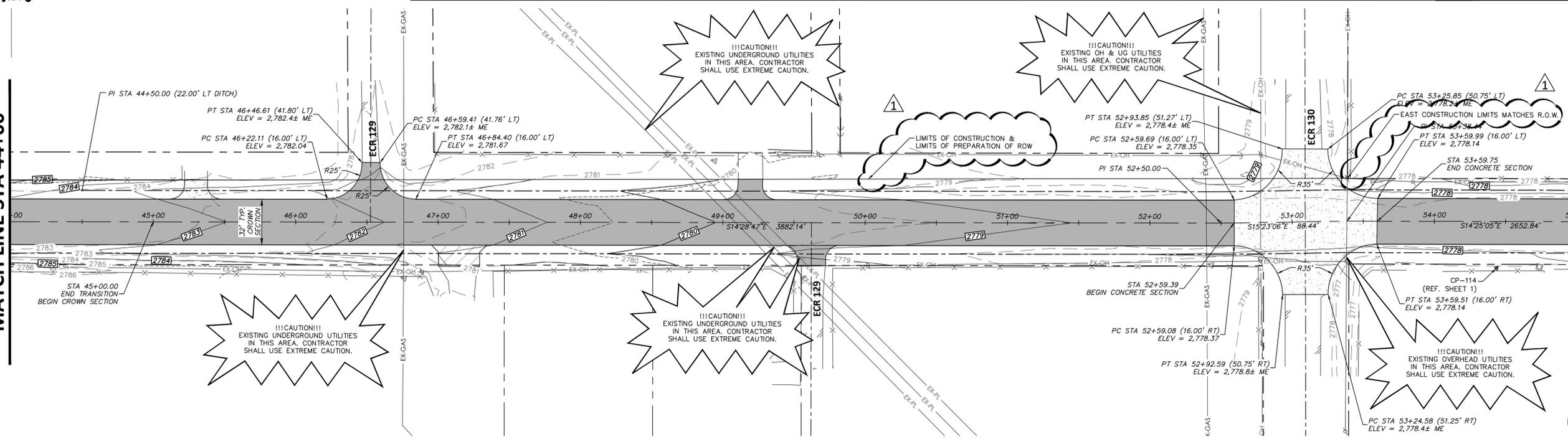
UTILITY RELOCATION NOTE:
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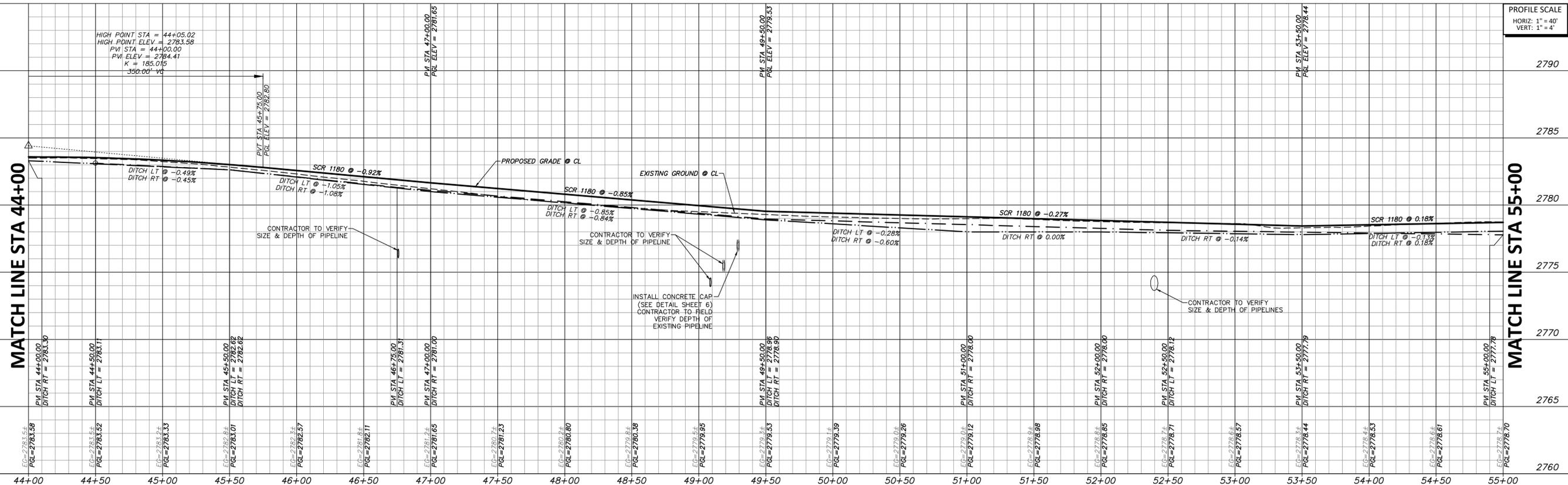
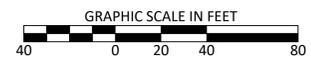
BENCHMARK:
SEE GENERAL NOTES (SHEET 1) FOR DETAILS.

MATCH LINE STA 44+00

MATCH LINE STA 55+00



SOUTH COUNTY ROAD 1180



FULL PATH: P:\080000\150100\150100\150100.dwg
FILENAME: 150100.dwg
PLOTTER: TMS
PLOT DATE: 10/25/2024

NO.	REVISION	BY	DATE
1	PRE BID QUESTIONS	TKS	08/05/2024

DESIGNED	AJA
DRAWN	AJA
CHECKED	BWA

SCALE	HORIZ 1" = 40'
	VERT 1" = 4'
DATE	MAY 2024

4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
Tel: 432.699.4889
[TX REG. F-1114]

MIDLAND COUNTY PRECINCT 2		DA PROJECT	B009115.001
SOUTH COUNTY ROAD 1180		SHEET	25
MIDLAND COUNTY, TEXAS			
PLAN AND PROFILE			
STA 44+00 TO 55+00			



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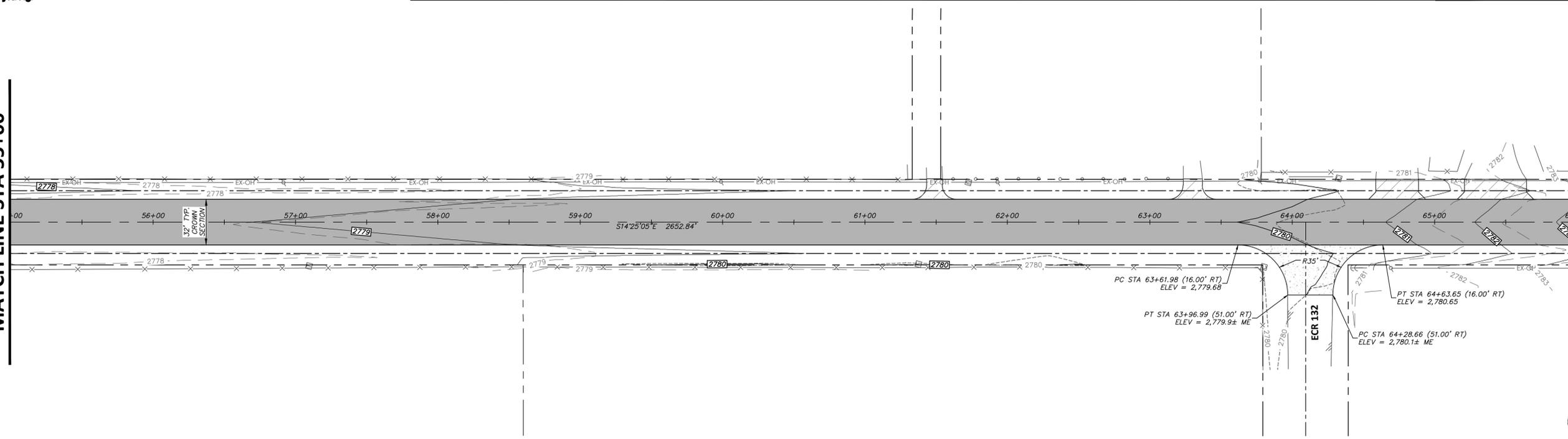
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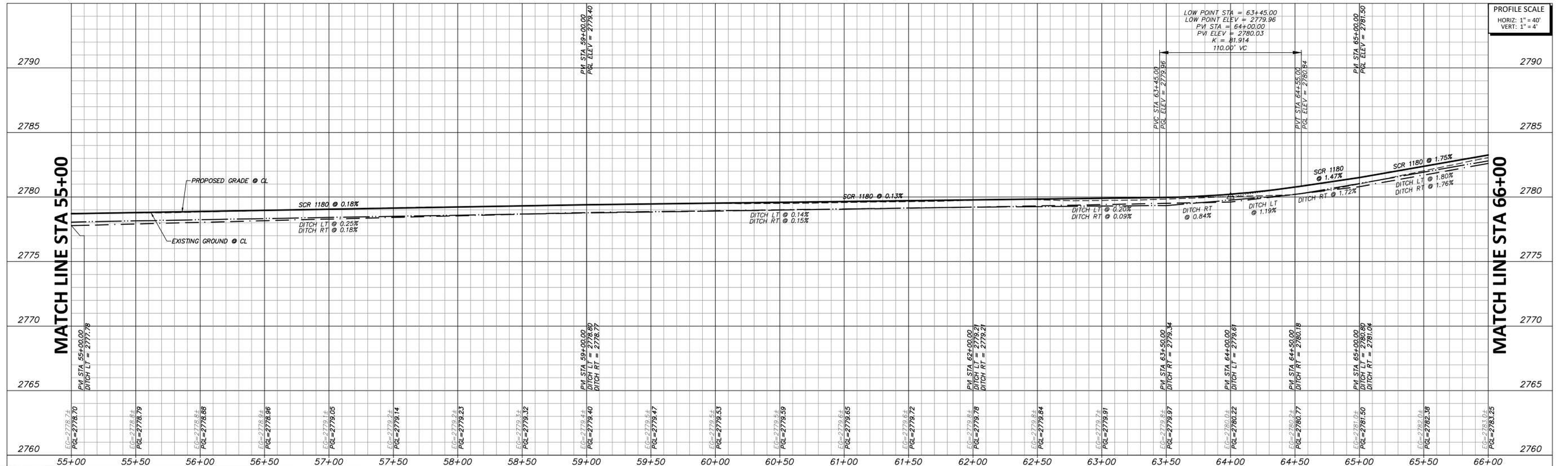
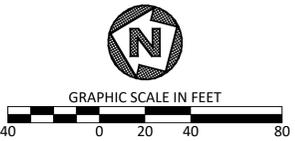
BENCHMARK:
SEE GENERAL NOTES (SHEET 1) FOR DETAILS.

MATCH LINE STA 55+00

MATCH LINE STA 66+00



SOUTH COUNTY ROAD 1180



FILE PATH: P:\080300\101150115\101150115.dwg
 PLOTTER: HP DesignJet 5000
 PLOTTED AT: 11:30:42 AM
 DATE: MAY 9, 2024

NO.	REVISION	BY	DATE	CHECKED

DESIGNED: AJA
 DRAWN: BWA
 CHECKED:
**MIDLAND COUNTY
MIDLAND, TEXAS**

SCALE:
 HORIZ: 1" = 40'
 VERT: 1" = 4'
 DATE: MAY 2024

DUNAWAY
 4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
 Tel: 432.699.4889
 (TX REG. F-1114)

Brian W. Adkins
 PROJECT ENGINEER
 MAY 9, 2024
 DATE

MIDLAND COUNTY PRECINCT 2
 SOUTH COUNTY ROAD 1180
 MIDLAND COUNTY, TEXAS
**PLAN AND PROFILE
STA 55+00 TO 66+00**

DA PROJECT
 B009115.001
 SHEET
26



WARNING TO CONTRACTOR:

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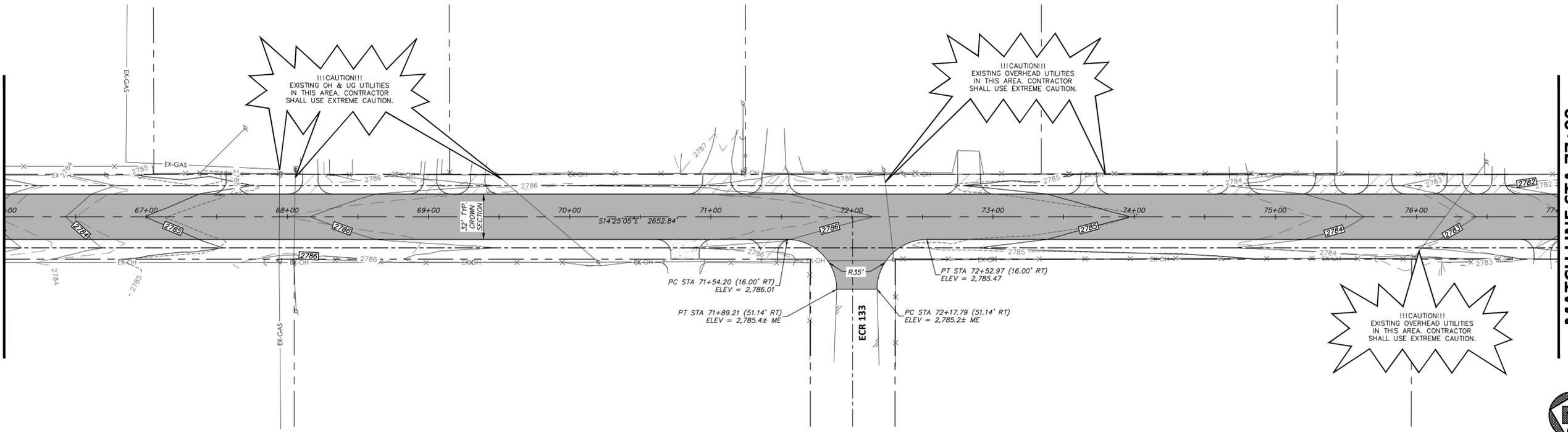
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BENCHMARK:

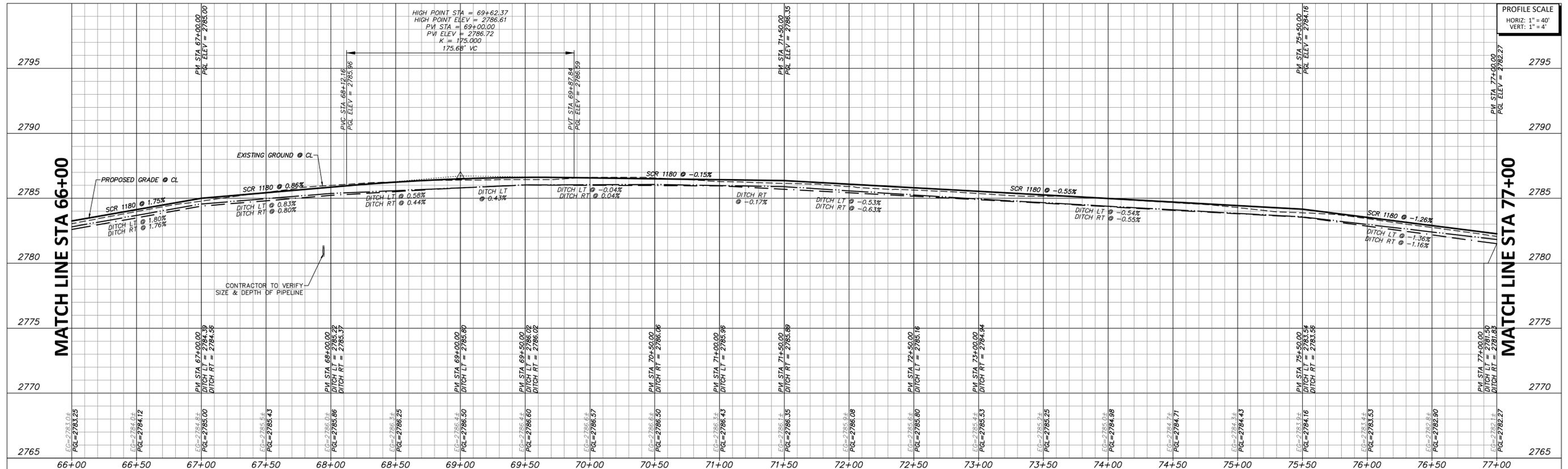
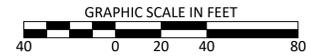
SEE GENERAL NOTES (SHEET 1) FOR DETAILS.

MATCH LINE STA 66+00

MATCH LINE STA 77+00



SOUTH COUNTY ROAD 1180



FILE PATH: P:\080000\10110101\10110101.dwg

DATE: 05/09/2024
DRAWN BY: AMOR ADKINS
PLOTTED AT: 1:55:10 PM

NO.	REVISION	BY	DATE	CHECKED

AJA	DESIGNED
AJA	DRAWN
BWA	CHECKED

SCALE	HORIZ	1" = 40'
	VERT	1" = 4'
	DATE	MAY 2024

DUNAWAY
 4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
 Tel: 432.699.4889
 TX REG. F-1114

STATE OF TEXAS
 100284
 BRIAN W. ADKINS
 LICENSED PROFESSIONAL ENGINEER
 PROJECT ENGINEER
 MAY 9, 2024
 DATE

MIDLAND COUNTY PRECINCT 2
 SOUTH COUNTY ROAD 1180
 MIDLAND COUNTY, TEXAS
PLAN AND PROFILE
STA 66+00 TO 77+00

DA PROJECT	B009115.001
SHEET	27



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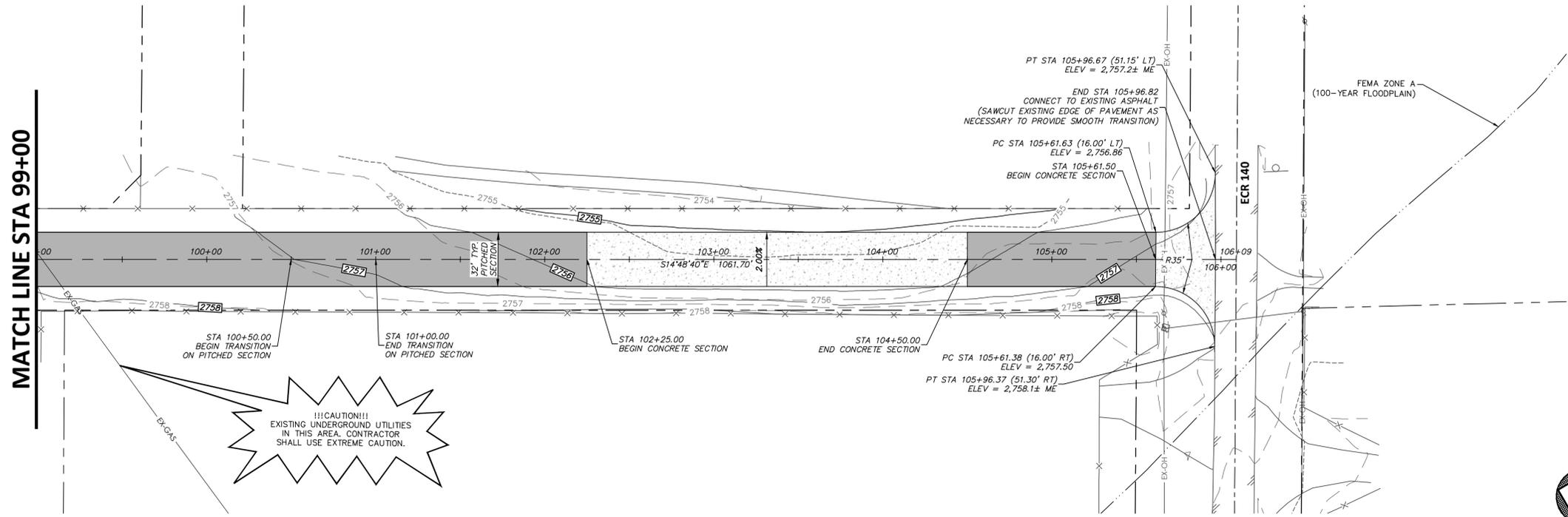
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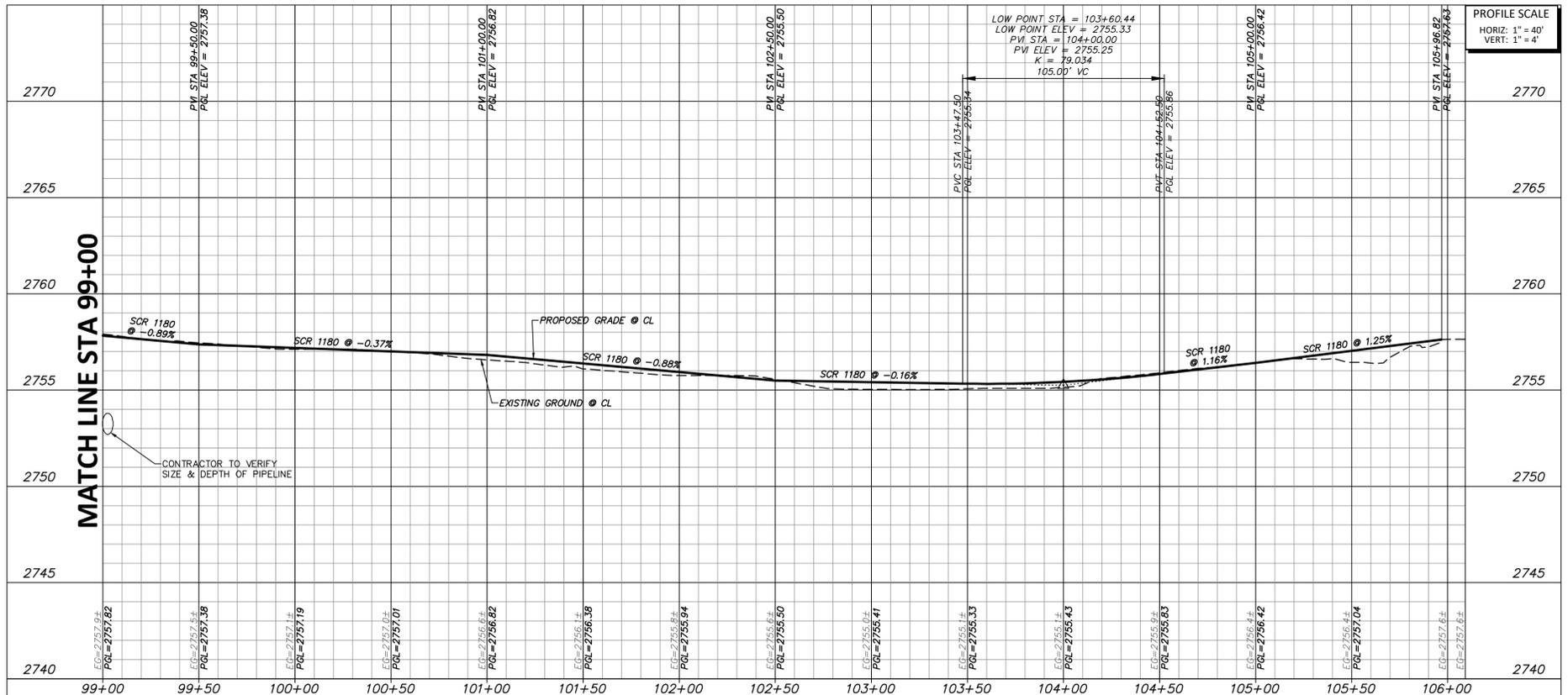
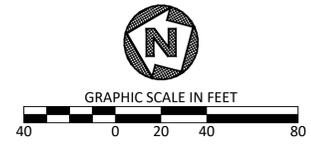
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BENCHMARK:

SEE GENERAL NOTES (SHEET 1) FOR DETAILS.



SOUTH COUNTY ROAD 1180



FILE PATH: P:\080300\01\100101\100101.dwg
 PLOTTER: HP DesignJet 5000
 PLOTTED BY: Amir Adnan
 PLOTTED AT: 7:58:10 AM

NO.	REVISION	BY	DATE	CHECKED
				AJA
				DESIGNED
				AJA
				DRAWN
				BWA
				BWA
				CHECKED

**MIDLAND COUNTY
MIDLAND, TEXAS**

SCALE
 HORIZ
 1" = 40'
 VERT
 1" = 4'
 DATE
 MAY
 2024

DUNAWAY
 4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
 Tel: 432.699.4889
 [TX REG. F-1114]

STATE OF TEXAS
 100284
 BRIAN W. ADKINS
 LICENSED PROFESSIONAL ENGINEER
 PROJECT ENGINEER
 MAY 9, 2024
 DATE

MIDLAND COUNTY PRECINCT 2
 SOUTH COUNTY ROAD 1180
 MIDLAND COUNTY, TEXAS
**PLAN AND PROFILE
 STA 99+00 TO END**

DA PROJECT
 B009115.001
 SHEET
30

