MIDLAND COUNTY
Plans for the Reconstruction of
EAST COUNTY ROAD 120 - PHASE II
FROM SH 158 TO FM 1379

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).



VICINITY MAP

NOT TO SCALE

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

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

DA JOB NO. B005663.001

OCTOBER 2022

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45	PLAN AND PROFILE	STA 88+00 TO 99+00
46	PLAN AND PROFILE	STA 99+00 TO 110+00
47	PLAN AND PROFILE	STA 110+00 TO 121+00
48	PLAN AND PROFILE	STA 121+00 TO 132+00
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50	PLAN AND PROFILE	STA 143+00 TO 154+00
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52	PLAN AND PROFILE	STA 165+00 TO 176+00
53	PLAN AND PROFILE	STA 176+00 TO 187+00
54	PLAN AND PROFILE	STA 187+00 TO 198+00
55	PLAN AND PROFILE	STA 198+00 TO 209+00
56	PLAN AND PROFILE	STA 209+00 TO 220+00
57	PLAN AND PROFILE	STA 220+00 TO 231+00
58	PLAN AND PROFILE	STA 231+00 TO 242+00
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60	PLAN AND PROFILE	STA 253+00 TO 264+00
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80	SIGNAGE AND PAVEMENT MARKINGS PLAN	STA 88+00 TO 110+00
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PLOTTED ON: Thursday, October 06, 2022
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PLANS FOR THE RECONSTRUCTION OF E.C.R. 120 - PHASE II
FROM SH 158 TO FM 1379
MIDLAND COUNTY, TEXAS

Texas 811
Know what's below. Call before you dig.

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:

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).

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.

OFF-SITE BENCHMARK:

BRASS DISK SET IN CONCRETE STAMPED "T 1189 1967", LOCATED 38 FEET NORTH OF THE CENTERLINE OF WEST COUNTY ROAD 180 AND 150 FEET WEST OF THE CENTERLINE OF STATE HWY 349.
NAD83 GRID COORDINATES N: 10,648,880.14' E: 1,765,914.09'
PUBLISHED ELEVATION: 2765.53' NAVD88 DATUM

BENCHMARK NOTE:

SEE GENERAL NOTES (SHEET 1) FOR DETAILS.

GENERAL NOTES:

1. 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.
2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS PRIOR TO AND THROUGHOUT CONSTRUCTION.
3. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONSTRUCTION PHASE SURVEYING INCLUDING LOCATING AND VERIFYING PROJECT BENCHMARKS.
4. 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.
5. 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."
6. 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.
7. 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.
8. THE ENGINEER IS NOT RESPONSIBLE FOR CONSTRUCTION SAFETY.
9. THE CONTRACTOR SHALL PROTECT ALL PROPERTY CORNER MARKERS, AND IF DISTURBED, THEY SHALL BE RESET AT THE EXPENSE OF THE CONTRACTOR.
10. 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.
11. 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.
12. 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.
13. HAUL ROADS, ACCESS ROUTES AND THE LOCATION OF ALL STAGING AREAS AND STORAGE AREAS SHALL BE SUBJECT TO THE APPROVAL OF THE COUNTY.
14. D&S ENGINEERING LABS, LLC (D&S) HAS MADE AN INVESTIGATION OF SUBSURFACE SOIL CONDITIONS OF THE PROJECT SITE IN THEIR REPORT PROJECT NO. GP19-2108-09, DATED DECEMBER 4, 2019, AND IS REFERENCED IN THE CONSTRUCTION DOCUMENTS AS "GEOTECHNICAL REPORT".
15. 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.
16. 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.
17. CONTRACTOR IS RESPONSIBLE FOR COORDINATING ROAD AND DRIVEWAY CLOSURES WITH THE OWNER AND AUTHORITIES HAVING JURISDICTION.
18. CONTRACTOR IS RESPONSIBLE FOR PROVIDING A TRAFFIC CONTROL AND SEQUENCING PLAN WITH THE 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.
19. 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.
20. 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:

1. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A SWPPP, ALL NECESSARY PERMITS AND APPROVALS, AND MAINTAINING COMPLIANCE WITH THE GENERAL PERMIT.
2. 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.
3. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION, ROUTINE INSPECTION AND/OR MAINTENANCE OF EROSION CONTROL DEVICES.
4. THE EROSION CONTROL DEVICES SHALL REMAIN IN PLACE UNTIL ACCEPTABLE VEGETATION COVERAGE HAS BEEN ACHIEVED IN ACCORDANCE WITH THE GENERAL PERMIT.
5. 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.
6. 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.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WATERING SEEDED/SODDED AREAS AS NECESSARY UNTIL 70% VEGETATION IS ESTABLISHED IN ACCORDANCE WITH THE PLANS.
8. THE CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL EROSION CONTROL MEASURES ONCE FINAL GROUND STABILIZATION IS ACHIEVED AND THE PROJECT IS COMPLETED.

DEMOLITION NOTES:

1. 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.
2. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FOR DEMOLITION AND DISPOSAL.
3. PRIOR TO DEMOLITION OCCURRING, ALL EROSION CONTROL DEVICES ARE TO BE INSTALLED.
4. THE CONTRACTOR SHALL COORDINATE WITH RESPECTIVE UTILITY COMPANIES PRIOR TO THE REMOVAL AND/OR RELOCATION OF UTILITIES/FLOWLINES.
5. CONTINUOUS ACCESS SHALL BE MAINTAINED FOR THE SURROUNDING PROPERTIES AT ALL TIMES DURING DEMOLITION OF THE EXISTING FACILITIES.
6. 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.
7. ALL FENCES REMOVED TO FACILITATE CONSTRUCTION SHALL BE REPLACED AT THE EXISTING OR PROPOSED LOCATION AS DIRECTED BY THE COUNTY.

GRADING NOTES:

1. THE AREA TO BE GRADED SHOULD BE STRIPPED OF VEGETATION, ROOTS, STUMPS, DEBRIS, AND OTHER ORGANIC MATERIALS.
2. 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.
3. SLOPES ON SITE SHALL NOT EXCEED A 3:1 SLOPE, UNLESS NOTED OTHERWISE.
4. ANY COSTS ASSOCIATED WITH DEWATERING THE SITE SHALL BE DONE AT THE EXPENSE OF THE CONTRACTOR.
5. THE CONTRACTOR SHALL MATCH EXISTING ELEVATIONS AND CONSTRUCT SMOOTH TRANSITIONS AT CONNECTIONS TO EXISTING PAVEMENT.

UTILITY NOTES:

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

ON-SITE BENCHMARKS:

CP-100: A 5/8 INCH IRON ROD WITH RED CAP LOCATED 65 FEET SOUTH OF THE CENTERLINE OF EAST COUNTY ROAD 120, APPROX. 235 FEET EAST OF MONAHANS DRAW. BEING LOCATABLE BY
NAD83 GRID COORDINATES N: 10,689,655.68' E: 1,797,130.16'
ELEVATION: 2701.25' NAVD88 DATUM

CP-101: A 5/8 IRON ROD WITH RED CAP LOCATED 38 FEET SOUTH OF THE CENTERLINE OF EAST COUNTY ROAD 120, 75 FEET EAST OF ITS INTERSECTION WITH COUNTY ROAD 1130. BEING LOCATABLE BY
NAD83 GRID COORDINATES: N: 10,687,658.27' E: 1,789,257.04
ELEVATION: 2718.17' NAVD88 DATUM

CP-102: A 5/8 IRON ROD WITH RED CAP LOCATED 48 FEET SOUTH OF THE CENTERLINE OF EAST COUNTY ROAD 120, APPROX. 1/2 MILE EAST OF ITS INTERSECTION WITH COUNTY ROAD 1110. BEING LOCATABLE BY
NAD83 GRID COORDINATES: N: 10,690,975.94' E: 1,802,276.18
ELEVATION: 2706.73' NAVD88 DATUM

CP-103: A 5/8 IRON ROD WITH RED CAP LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF EAST COUNTY ROAD 120, AND COUNTY ROAD 1140, APPROX. 35 FEET NORTH OF THE CENTERLINE OF EAST COUNTY ROAD 120 AND 50 FEET EAST OF THE CENTERLINE OF COUNTY ROAD 1140. BEING LOCATABLE BY
NAD83 GRID COORDINATES: N: 10,686,428.41' E: 1,784,068.84
ELEVATION: 2735.26' NAVD88 DATUM

CP-104: A 5/8 IRON ROD WITH RED CAP LOCATED AT THE NORTHEAST CORNER OF THE INTERSECTION OF EAST COUNTY ROAD 120, AND FM 1379, APPROX. 150 FEET NORTH OF THE CENTERLINE OF EAST COUNTY ROAD 120 AND 280 FEET EAST OF THE CENTERLINE OF FM1379. BEING LOCATABLE BY
NAD83 GRID COORDINATES: N: 10,694,584.93' E: 1,815,245.53
ELEVATION: 2693.20' NAVD88 DATUM

PLAN LEGEND

	PROPOSED ROAD CENTERLINE
2800	PROPOSED MAJOR CONTOUR
2802	PROPOSED MINOR CONTOUR
	FULL-DEPTH ROADWAY SAWCUT
	FULL-DEPTH DRIVEWAY SAWCUT
	PROPOSED EDGE OF ASPHALT
	PROPOSED DITCH CENTERLINE
	PROPOSED PROFILE LEFT DITCH FLOW LINE
	PROPOSED PROFILE RIGHT DITCH FLOW LINE
	PROPOSED CULVERT
	PROPOSED ROADWAY ASPHALT
	PROPOSED DRIVEWAY ASPHALT 3 INCHES HMAC OVER 8 INCHES FLEXIBLE BASE
	PROPOSED CONCRETE
	PROPOSED DRIVEWAYS 8 INCHES FLEXIBLE BASE
CP	CONTROL POINT
E	EASTING
N	NORTHING
ELEV	ELEVATION
CL	CENTERLINE
LT	LEFT
RT	RIGHT
PC	POINT OF CURVATURE
PCC	POINT OF CONTINUOUS CURVATURE
PI	POINT OF INTERSECTION
PRC	POINT OF REVERSE CURVATURE
PT	POINT OF TANGENCY
R	RADIUS
EG	EXISTING GRADE
FL	FLOWLINE
ME	MATCH EXISTING
PGL	PROPOSED GRADE LINE
PVI	POINT OF VERTICAL INTERSECTION

EXISTING CONDITIONS

	RIGHT-OF-WAY
	PROPERTY BOUNDARY
	ADJOINER
	ABSTRACT
2800	EXISTING MAJOR CONTOUR
2802	EXISTING MINOR CONTOUR
	EXISTING EDGE OF ASPHALT
	EXISTING CURB
	EXISTING FENCE
	EXISTING FLOODPLAIN BOUNDARY
EX-AT&T	EXISTING AT&T
EX-CABLE	EXISTING CABLE
EX-COMM	EXISTING COMMUNICATION
	EXISTING DRAINAGE PIPE
EX-OHE	EXISTING OVERHEAD ELECTRIC
EX-UE	EXISTING UNDERGROUND ELECTRIC
EX-FO	EXISTING FIBER-OPTIC CABLE
EX-SS FM	EXISTING FORCE MAIN
EX-GAS	EXISTING GAS LINE
EX-IRR	EXISTING IRRIGATION
EX-OH	EXISTING OVERHEAD LINES
EX-PL	EXISTING UNDERGROUND PIPELINE
EX-SS	EXISTING SANITARY SEWER
EX-SD	EXISTING STORM DRAIN
EX-T	EXISTING TELEPHONE LINE
EX-W	EXISTING WATER LINE
	EXISTING SIGN
	EXISTING UTILITY SIGN
	EXISTING FENCE POST
	EXISTING MAILBOX
	EXISTING TREE
	EXISTING CABLE BOX
	EXISTING PEDESTAL CABLE
	EXISTING PEDESTAL ELECTRIC
	EXISTING LIGHT POLE
	EXISTING GAS MANHOLE
GV	EXISTING GAS VALVE
GM	EXISTING GAS METER
	EXISTING PEDESTAL GAS
	EXISTING IRRIGATION VALVE
	EXISTING GUY WIRE
	EXISTING TRAFFIC SIGNAL LIGHT
	EXISTING UTILITY POLE
SS	EXISTING SANITARY SEWER MANHOLE
	EXISTING CLEANOUT
SD	EXISTING STORM DRAIN MANHOLE
	EXISTING STORM DRAIN INLET
	EXISTING PEDESTAL TELEPHONE
	EXISTING PEDESTAL UNKNOWN
	EXISTING FIRE HYDRANT
WM	EXISTING WATER METER
W	EXISTING WATER MANHOLE
WV	EXISTING WATER VALVE
	EXISTING ASPHALT TO BE DEMOLISHED
	EXISTING CONCRETE TO BE DEMOLISHED
	EXISTING GRAVEL TO BE DEMOLISHED

NO.	REVISION	BY	DATE

JLB DESIGNED
JLB DRAWN
JLB CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ N/A
VERT N/A
DATE OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS

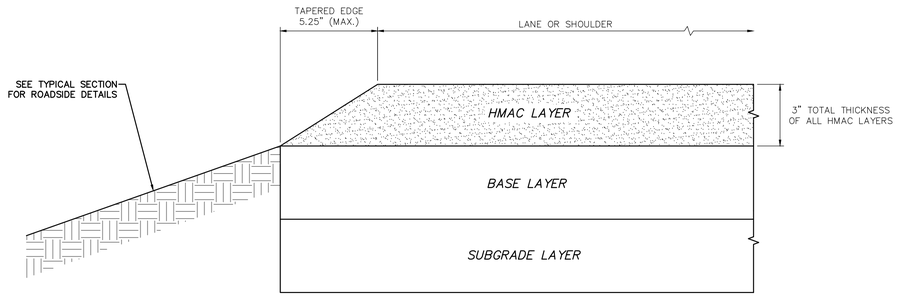
GENERAL NOTES

DA PROJECT B005663.001
SHEET 1

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PLOTTED ON: November 06, 2022
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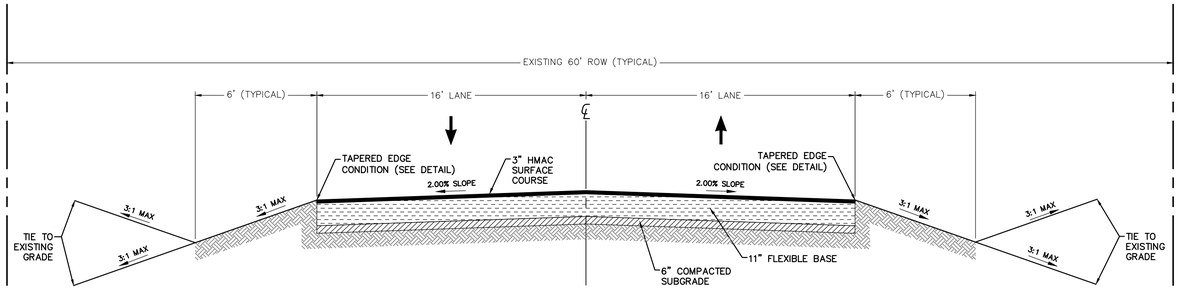
Texas 811
Know what's below. Call before you dig.

WARNING TO CONTRACTOR:	CRITICAL:	UTILITY RELOCATION NOTE:	STATE PLANE COORDINATE NOTE:	OFF-SITE BENCHMARK:	BENCHMARK NOTE:
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.	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.	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).	COORDINATES PROVIDED ARE RELATIVE TO THE TEXAS STATE PLANE COORDINATE SYSTEM (NAD83), CENTRAL ZONE 4203; ALL COORDINATES, BEARINGS, AND DISTANCES ARE NAD83 GRID VALUES.	BRASS DISK SET IN CONCRETE STAMPED "T 1189 1967", LOCATED 38 FEET NORTH OF THE CENTERLINE OF WEST COUNTY ROAD 180 AND 150 FEET WEST OF THE CENTERLINE OF STATE HWY 349. NAD83 GRID COORDINATES N: 10,648,880.14' E:1,765,914.09' PUBLISHED ELEVATION: 2765.53' NAVD88 DATUM	SEE GENERAL NOTES (SHEET 1) FOR DETAILS.



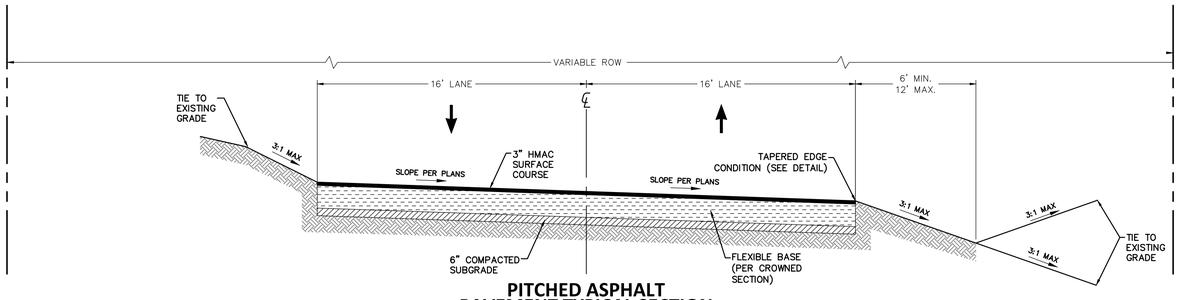
TAPERED EDGE CONDITION HMAC PAVEMENT

NOT TO SCALE



CROWN ASPHALT PAVEMENT TYPICAL SECTION

NOT TO SCALE



PITCHED ASPHALT PAVEMENT TYPICAL SECTION

NOT TO SCALE

NOTES:

1. *NATIVE SOILS AND IMPORTED FILL MAY BE USED TO LEVEL THE PROJECT. GENERAL FILL SHALL POSSESS A PLASTICITY INDEX, PI, OF NO MORE THAN 30 AND SHALL HAVE NO LESS THAN 35% PASSING A NO. 200 MESH SIEVE. ALL GENERAL FILL SHALL BE PLACED IN 6-INCH MAXIMUM LIFTS AND SHALL BE COMPACTED TO AT LEAST 95% OF ASTM D698 (STANDARD PROCTOR) WITH MOISTURE CONTENT ±2% OF OPTIMUM. TESTING FREQUENCY OF ONE TEST PER 300 LINEAR FEET OF ROADWAY PER LIFT.*
2. *SUBGRADE SOILS BENEATH PAVEMENTS SHALL BE COMPACTED THEN PROOF-ROLL TESTED WITH A FULLY LOADED WATER TRUCK OR LOADED DUMP TRUCK. THE PROOF-ROLL TEST IS CONSIDERED PASSING IF SOIL DEFLECTIONS ARE LESS THAN 1/2-INCH WHEN TESTED USING A LOADED DUMP TRUCK (OR SIMILAR). WHEN USING THE PROOF-ROLLED METHOD 100% COVERAGE OVER THE ROADWAY WITH A MINIMUM OF 2 PASSES PER AREA IS RECOMMENDED. ALTERNATIVELY, SUBGRADE VERIFICATION MAY BE PERFORMED USING A NUCLEAR DENSITY GAUGE, WHERE SUBGRADE DENSITY SHALL BE GREATER THAN 95% OF ASTM D698 (STANDARD PROCTOR) WITH MOISTURE CONTENT ±2% OF OPTIMUM. WHEN USING THE NUCLEAR DENSITY METHOD, TESTING FREQUENCY OF ONE TEST PER 300 LINEAR FEET OF ROADWAY PER LIFT.*
3. *PROPOSED FLEXIBLE BASE MATERIAL SHALL BE CRUSHED ROCK CONFORMING TO TXDOT STANDARD SPECIFICATION ITEM NO. 247, GRADE 1-2 OR BETTER. THE FLEXIBLE BASE MATERIAL SHALL BE INSTALLED IN FOUR TO SIX (4"-6") INCH COMPACTED LIFTS. ADDITIONALLY THE FLEXIBLE BASE MATERIAL IN EACH LIFT SHALL BE COMPACTED TO A MINIMUM OF 98 PERCENT OF THE MATERIAL'S DRY DENSITY AS PER ASTM D698 (STANDARD PROCTOR) WITH MINIMUM MOISTURE CONTENT OF ±4%. ONE TEST SHALL BE PERFORMED EVERY 300 LINEAR FEET OF ROADWAY, APPROXIMATELY ONE TEST EVERY 10,000-12,000 SQUARE FEET OF AREA PER LIFT.*
4. *PRIME COAT SHALL BE PER TXDOT ITEM 310 SPECIFICATIONS.*
5. *PROPOSED ASPHALT IS A TYPE D HMAC THAT SHALL MEET TXDOT ITEM 340 SPECIFICATIONS.*
6. *THESE NOTES AS SHOWN ABOVE ARE PER THE GEOTECHNICAL ASSESSMENT PREPARED BY D&S, WHICH SHALL BE REFERENCED FOR ADDITIONAL INFORMATION AND SPECIFICATIONS. ANY SUBSEQUENT REVISIONS TO THIS ASSESSMENT SHALL GOVERN.*
7. *THE PROPOSED FINISHED GRADE OF ROADWAY IN LOW WATER CROSSING AREAS SHALL MATCH THE EXISTING TOP OF PAVEMENT OR CALICHE UNLESS SPECIFIED OTHERWISE ON THE CORRESPONDING PLAN & PROFILE SHEETS.*
8. *THE TAPERED EDGE CONDITION AT THE EDGE OF PAVEMENT SHALL BE AS SHOWN IN THE TAPERED EDGE CONDITION HMAC PAVEMENT DETAIL. THE SLOPE OF THE TAPERED EDGE SHALL BE 1.75H:1V, WHICH IS 5.25" FOR 3" OF HMAC PAVEMENT. THIS TAPERED EDGE CONDITION SHALL APPLY AT ALL LOCATIONS FOR ALL TYPICAL SECTIONS.*

NO.	REVISION	BY	DATE

JLB DESIGNED
JLB DRAWN
JLB CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE: HORIZ N/A; VERT N/A
DATE: OCTOBER 2022

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

STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER
10/06/22

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS

TYPICAL ASPHALT SECTIONS

DA PROJECT B005663.001
SHEET 2

FULL PATH: G:\Production\400\005\005\005\001\Civil\Drawing\Plot Sheets\TYPICAL SECTIONS.dwg

FILENAME: TYPICAL SECTIONS.dwg
PLOTTED BY: Rexkesh Baker
PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 2:15:58 PM

Texas 811
Know what's below. Call before you dig.

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STATE PLANE COORDINATE NOTE:

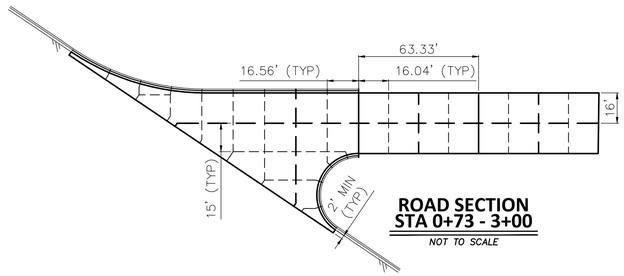
COORDINATES PROVIDED ARE RELATIVE TO THE TEXAS STATE PLANE COORDINATE SYSTEM (NAD83), CENTRAL ZONE 4203; ALL COORDINATES, BEARINGS, AND DISTANCES ARE NAD83 GRID VALUES.

OFF-SITE BENCHMARK:

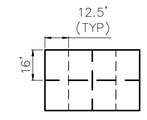
BRASS DISK SET IN CONCRETE STAMPED "T 1189 1967", LOCATED 38 FEET NORTH OF THE CENTERLINE OF WEST COUNTY ROAD 180 AND 150 FEET WEST OF THE CENTERLINE OF STATE HWY 349.
NAD83 GRID COORDINATES N: 10,648,880.14' E:1,765,914.09'
PUBLISHED ELEVATION: 2765.53' NAVD88 DATUM

BENCHMARK NOTE:

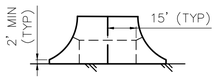
SEE GENERAL NOTES (SHEET 1) FOR DETAILS.



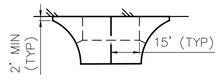
ROAD SECTION STA 0+73 - 3+00
NOT TO SCALE



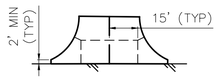
ROAD SECTION STA 20+25 - 20+75
NOT TO SCALE



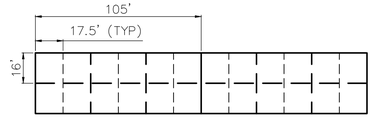
INTERSECTION AT STA 52+35
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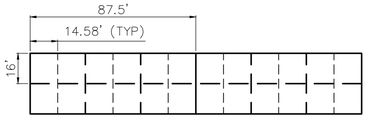
INTERSECTION AT STA 78+78
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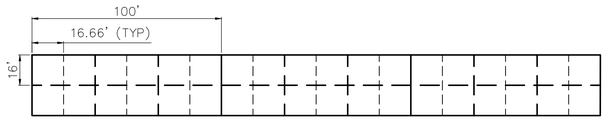
INTERSECTION AT STA 211+70
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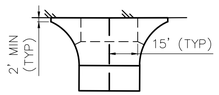
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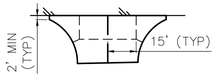
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NOT TO SCALE



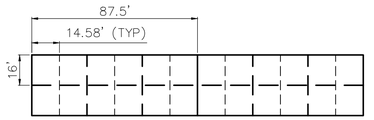
ROAD SECTION STA 263+00 - 266+00
NOT TO SCALE



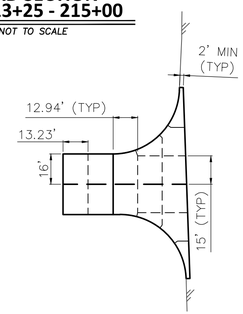
INTERSECTION AT STA 286+63
NOT TO SCALE



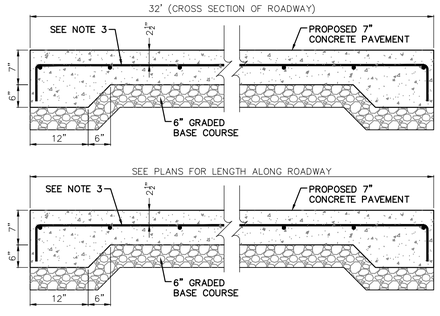
INTERSECTION AT STA 313+43
NOT TO SCALE



ROAD SECTION STA 316+50 - 318+25
NOT TO SCALE

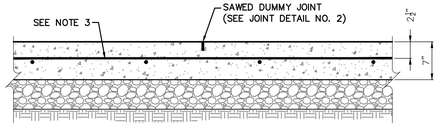


ROAD SECTION STA 371+50 - END
NOT TO SCALE

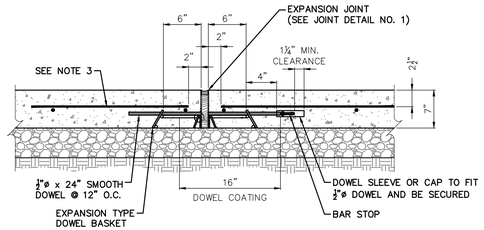


CROSS SLOPE OF CONCRETE PAVEMENT SECTIONS PER PLANS

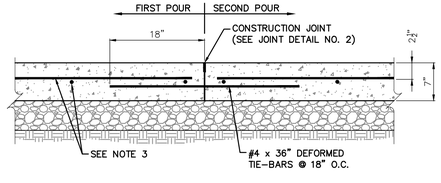
CONCRETE PAVEMENT TYPICAL SECTION
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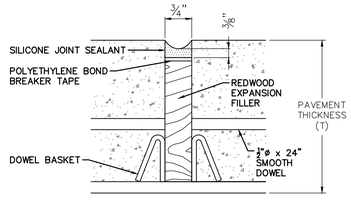
SAWED DUMMY JOINT
NOT TO SCALE



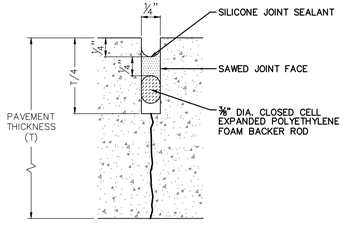
EXPANSION JOINT
NOT TO SCALE



CONSTRUCTION JOINT
NOT TO SCALE



JOINT DETAIL NO. 1
NOT TO SCALE



JOINT DETAIL NO. 2
NOT TO SCALE

PAVEMENT AND JOINT NOTES:

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 3000 P.S.I.
2. REINFORCEMENT SHALL BE #4 BARS AT 18" ON CENTER EACH WAY.
3. FOR DEFORMED BAR SPLICES, LAP BARS 40 DIAMETERS AND TIE.
4. ALL DOWELS TO BE PLACED AT T/2.
5. EXPANSION JOINTS TO BE PLACED AS SHOWN NOT TO EXCEED 100' SPACING.
6. CONSTRUCTION AND SAWED DUMMY JOINTS SHALL ALTERNATE EVERY 12' (MAX.) BETWEEN EXPANSION JOINTS, OR AS SHOWN. ROADWAY CENTERLINE SHALL BE A CONSTRUCTION JOINT.
7. 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.
8. CONSTRUCTION JOINTS SHALL BE REQUIRED AT THE END OF A DAY'S WORK, UNLESS IT ENDS AT AN EXPANSION JOINT.
9. ALL CONSTRUCTION JOINTS SHALL BE CLEANED OF DEBRIS, BLOWN DRY, AND IMMEDIATELY SEALED.
10. ALL JOINTS ARE TO CONTINUE THROUGH THE CURB.
11. RADIAL JOINTS SHALL BE NO SHORTER THAN 18".
12. 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 LEGNED

- EXPANSION JOINT
- CONSTRUCTION JOINT
- SAWED DUMMY JOINT

NO.	REVISION	BY	DATE

JLB DESIGNED
JLB DRAWN
JLB CHECKED

MIDLAND COUNTY MIDLAND, TEXAS

SCALE
HORIZ N/A
VERT N/A
DATE OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS

TYPICAL CONCRETE SECTIONS

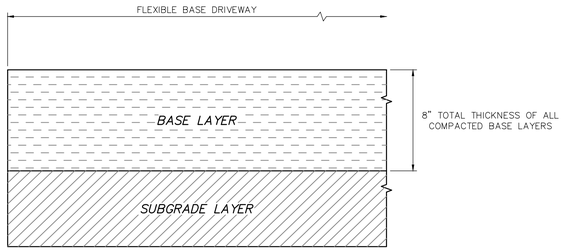
DA PROJECT B005663.001
SHEET 3

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PLOTTED ON: October 06, 2022
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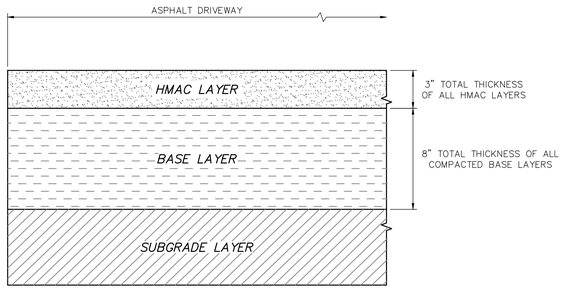
Texas 811
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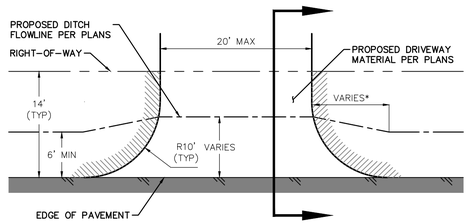
TYPICAL FLEXIBLE BASE DRIVEWAY SECTION

NOT TO SCALE

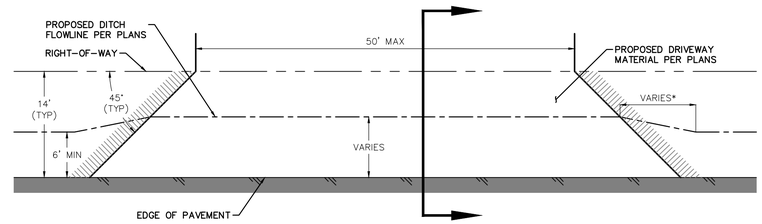


TYPICAL ASPHALT DRIVEWAY SECTION

NOT TO SCALE



RESIDENTIAL PLAN VIEW

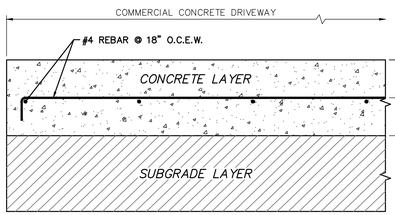


COMMERCIAL PLAN VIEW

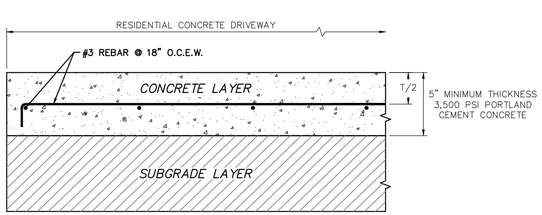
VARIES* – LENGTH TO PROVIDE A SMOOTH TRANSITION IN DITCH CENTERLINE. TYPICAL LENGTH OF 5' FOR EVERY 1' OF HORIZONTAL ADJUSTMENT (5:1).

TYPICAL DRIVEWAYS

NOT TO SCALE



COMMERCIAL



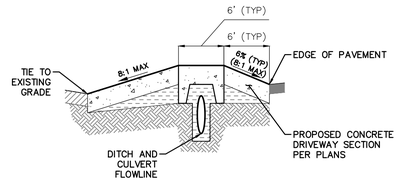
RESIDENTIAL

NOTE:

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

TYPICAL CONCRETE DRIVEWAY SECTIONS

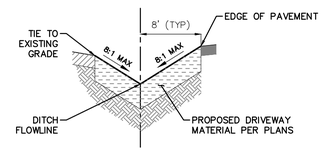
NOT TO SCALE



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 FOLLOWNG 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

DALP | DESIGNED: JLB | DRAWN: JLB | CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE: HORIZ N/A; VERT N/A
DATE: OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS

TYPICAL DRIVEWAY SECTIONS

DA PROJECT: B005663.001
SHEET: 4

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PLOTTED BY: Rebekah Baker
PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 2:32:27 PM

Texas 811 — Know what's below. Call before you dig.

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:

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).

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.

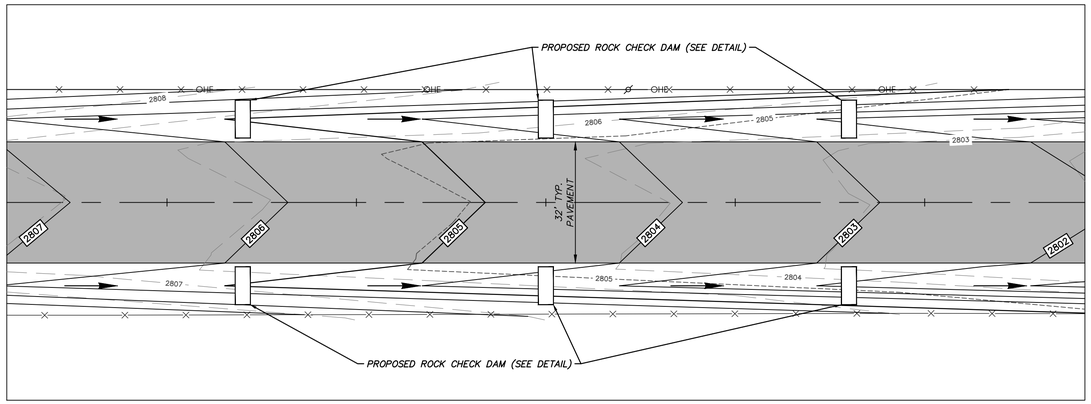
OFF-SITE BENCHMARK:

BRASS DISK SET IN CONCRETE STAMPED "T 1189 1967", LOCATED 38 FEET NORTH OF THE CENTERLINE OF WEST COUNTY ROAD 180 AND 150 FEET WEST OF THE CENTERLINE OF STATE HWY 349.
NAD83 GRID COORDINATES N: 10,648,880.14' E:1,765,914.09'
PUBLISHED ELEVATION: 2765.53' NAVD88 DATUM

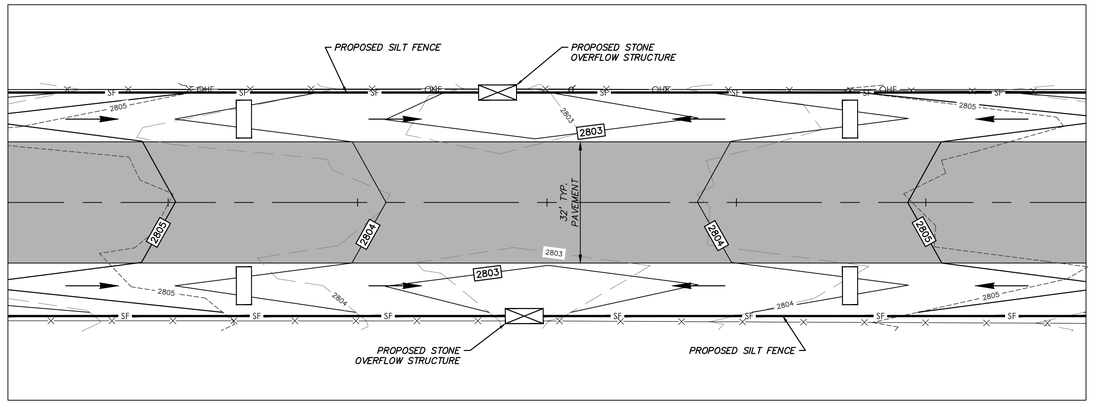
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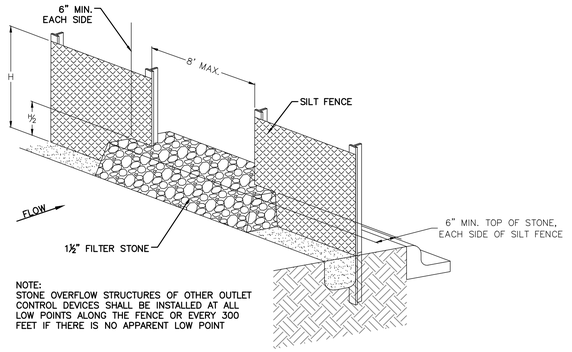
SEE GENERAL NOTES (SHEET 1) FOR DETAILS.

TYPICAL EROSION CONTROL PLAN WITH ROADWAY DITCHES



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





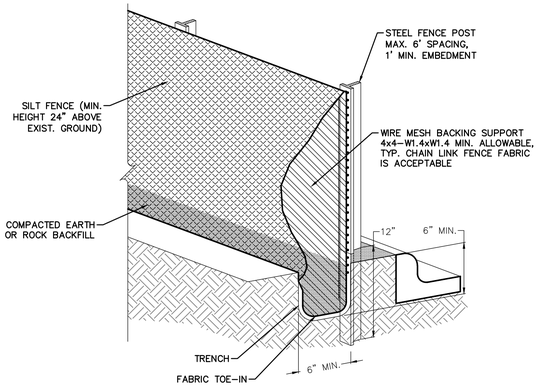
NOTE:
STONE OVERFLOW STRUCTURES OF OTHER OUTLET CONTROL DEVICES SHALL BE INSTALLED AT ALL LOW POINTS ALONG THE FENCE OR EVERY 300 FEET IF THERE IS NO APPARENT LOW POINT

SILT FENCE STONE OVERFLOW STRUCTURE

NOT TO SCALE

SILT FENCE GENERAL NOTES:

1. 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.
2. 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.
3. 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.
4. 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.
5. INSPECTION SHALL BE MADE EVERY TWO WEEKS AND AFTER EACH 1/2" RAINFALL. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
7. 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.

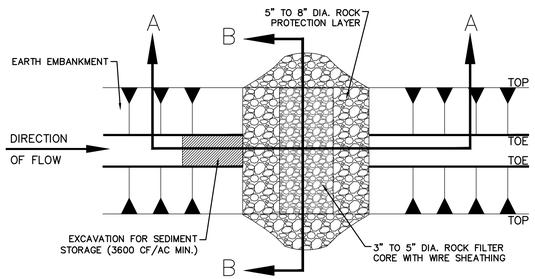


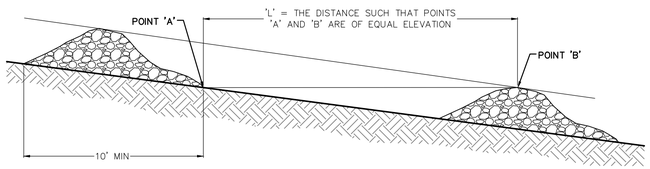
SILT FENCE

NOT TO SCALE

NOTES:

1. EROSION CONTROL MEASURES MAY ONLY BE PLACED IN FRONT OF INLETS, IN CHANNELS, DRAINAGEWAYS, OR BORROW DITCHES AT RISK OF CONTRACTOR.
2. CONTRACTOR SHALL REMAIN LIABLE FOR ANY DAMAGE CAUSED BY THE MEASURES, INCLUDING FLOODING DAMAGE, WHICH MAY OCCUR DUE TO BLOCKED DRAINAGE.
3. 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.

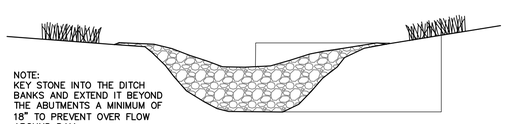




SECTION A–A

ROCK CHECK DAM

NOT TO SCALE



NOTE:
KEY STONE INTO THE DITCH BANKS AND EXTEND IT BEYOND THE ABUTMENTS A MINIMUM OF 18" TO PREVENT OVER FLOW AROUND DAM.

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

NO.	REVISION	BY	DATE

JLB — DESIGNED
JLB — DRAWN
JLB — CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ N/A
VERT N/A
DATE OCTOBER 2022

DUNAWAY
4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
Tel: 432.699.4889
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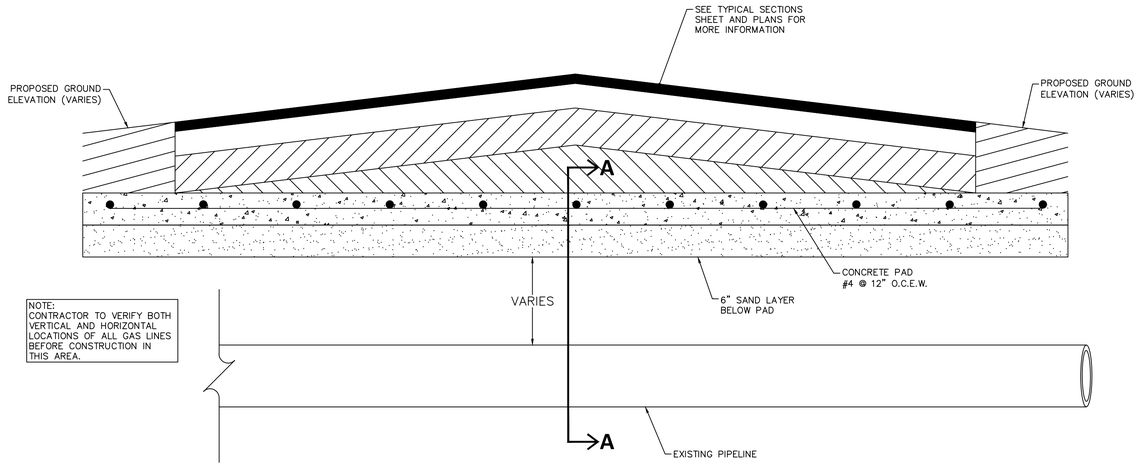
10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
TYPICAL EROSION CONTROL PLAN AND DETAILS

DA PROJECT B005663.001
SHEET 5

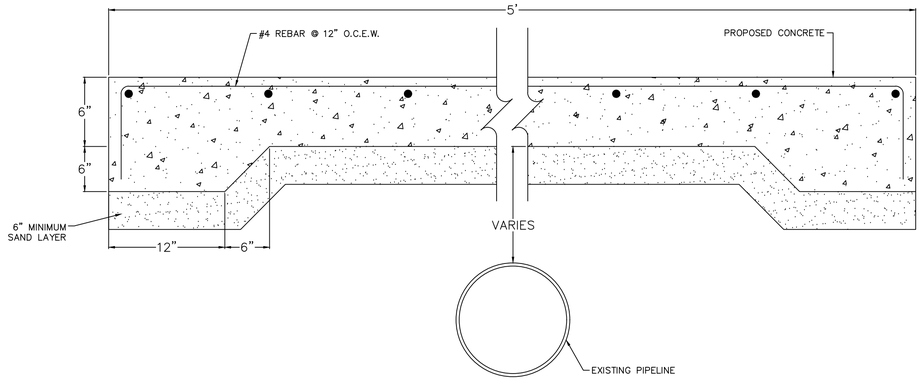
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PLOTTED ON: October 06, 2022
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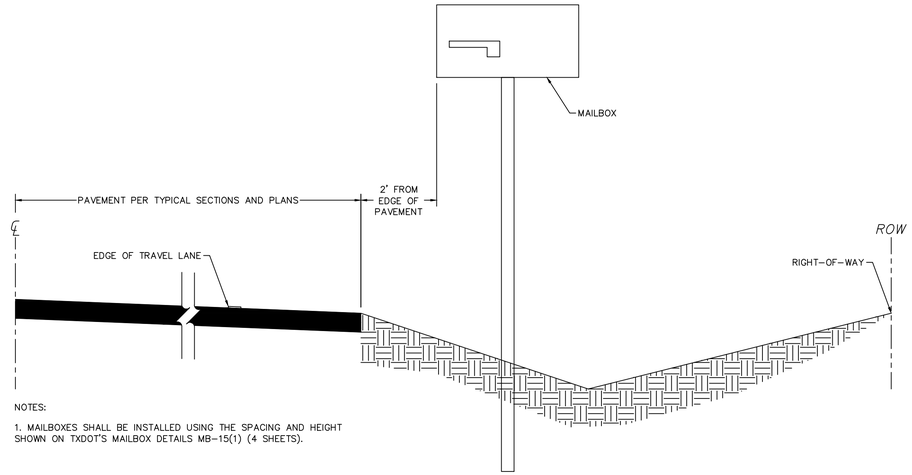
1. CONCRETE SHALL BE CLASS "A" AND SHALL HAVE A MINIMUM OF 5 SACKS OF CEMENT PER CUBIC YARD AND A MINIMUM 28 DAY COMPRESSION STRENGTH OF 3500 P.S.I.
2. MATERIALS AND CONSTRUCTION METHODS SHALL CONFORM TO TXDOT STANDARD SPECIFICATIONS.
3. REINFORCEMENT SHALL BE #4 BARS AT 12" ON CENTER EACH WAY.
4. CONTRACTOR 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.



SECTION A–A

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).

MAILBOX SPACING FROM EDGE OF PAVEMENT

NOT TO SCALE

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PLOT DATE: Monday, October 06, 2022
PLOTTED AT: 1:33:17 PM

NO.	REVISION	BY	DATE

DALP
DESIGNED
JLB
DRAWN
JLB
CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ
N/A
VERT
N/A
DATE
OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
PIPE ENCASEMENT AND MAILBOX DETAILS

DA PROJECT
B005663.001
SHEET
6

LOCKABLE ARCHITECTURAL MAILBOX

SINGLE-MOUNT INSTALLATION PARTS			
#	PART NAME	PART/DHT #	QTY
1	SOCKET, TYPE 4 FOUNDATION	160891	1
2	WEDGE FOR TYPE 4 FOUNDATION	160892	1
3	THIN-WALL WHITE STEEL TUBE 2.375 OD	162911	1
4	BRACKET FOR ATTACHING MAILBOX	161443	1
5	ARCHITECTURAL MAILBOX	SEE NOTE	1
6	NUT, 5/16" HEX	NUT, 5/16" HEX	1
7	BOLT, 5/16 X 3 HEX	GRADE 5	1
8	PLATE WASHER FOR ARCHITECTURAL MAILBOX	SEE SEE SHEET 2	2
9	WASHER, 3/8 FLAT		8
10	WASHER, 3/8 LOCK		4
11	NUT, 3/8 HEX		4
12	BOLT, 3/8 X 1-1/4 HEX	GRADE 5	4
13	CONCRETE, CLASS B (2000 PSI)		1

LOCKABLE ARCHITECTURAL MAILBOX DETAILS

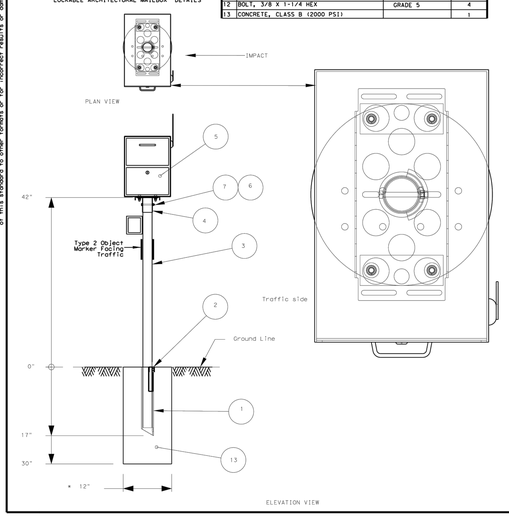


TABLE OF APPLICABLE DHT NUMBERS	
DHT NUMBER	DESCRIPTION
	FOUNDATIONS
46625	WEDGE FOR V-WING SOCKET FOR TYPE 1 FOUNDATION
149340	V-WING SOCKET FOR TYPE 1 FOUNDATION
143433	WEDGE FOR TYPE 2 FOUNDATION
143434	ANCHOR FOR TYPE 2 FOUNDATION
166103	ANCHOR FOR TYPE 7 FOUNDATION
160891	SOCKET FOR TYPE 4 FOUNDATION
160892	WEDGE FOR TYPE 4 FOUNDATION
166104	WEDGE FOR TYPE 7 FOUNDATION
	POSTS
4289	WINGED CHANNEL MAILBOX POST
149339	MULTIPLE MAILBOX POST (GALVANIZED TUBING)
164116	MULTIPLE MAILBOX POST (WHITE COATED)
166114	MULTIPLE MAILBOX POST (WHITE COATED OCTAGONAL)
166153	MULTIPLE MAILBOX POST (GALVANIZED OCTAGONAL)
161442	RECYCLED RUBBER POST, FOR SMALL MAILBOX ONLY
143426	THIN-WALL GALVANIZED STEEL TUBE 2.375" OUTER DIAMETER
162911	THINWALL WHITE STEEL TUBE 2.375" OUTER DIAMETER
166152	SINGLE OR DOUBLE THIN-WALL MAILBOX POST GALVANIZED 2" OCTAGONAL
166112	SINGLE OR DOUBLE THIN-WALL MAILBOX POST WHITECOATED 2" OCTAGONAL
	REFLECTIVE SHEETING
161812	REFLECTIVE SHEETING FOR EMERGENCY LOCATION NUMBER PANEL
	CONNECTING HARDWARE
2917	ANGLE BRACKET USED FOR TEMPORARY MAILBOX SUPPORT
166105	BRACKET FOR SINGLE MOUNTING OF MAILBOXES (MOUNTING KIT)
3789	PLATE FOR DOUBLE MOUNTING OF MAILBOXES
166108	BRACKET FOR DOUBLE MOUNTING OF MAILBOXES (MOUNTING KIT)
166111	BRACKET FOR MULTIPLE MOUNTING OF MAILBOXES (MOUNTING KIT)
148939	BRACKET FOR ATTACHING SMALL OR MEDIUM SIZE MAIL BOX
148938	EXTENDER TO BRACKET FOR ATTACHING LARGE MAILBOX
159489	ANGLE BRACKET PART A
159490	ANGLE BRACKET PART B
162323	BRACKET FOR DOUBLE MOUNTING OF MAILBOXES ON THINWALL STEEL POST, GALVANIZED OR POWDERCOATED.
161443	BRACKET FOR ATTACHING MAILBOX TO RECYCLED RUBBER POST AND TO MULTIPLE WHITE MAILBOX POST
158358	CASTING (NEWSPAPER RECEPTACLE BRACKET)
163731	U-BOLT (NEWSPAPER RECEPTACLE BRACKET)
160698	BOLT,HEX HEAD, GALV,3/8"DIA X 3/4"L HD, W/2-FLAT WASHERS
163750	BOLT,HEX HEAD, GALV,3/8" X 1-1/2, HD NC, W/WASHERS
160701	BOLT,HEX HEAD, GALV,3/8"DIA X 2-1/2"L, HD, W/2-FLAT WASHERS
163730	BOLT,HEX HEAD, GALV,3/8" X 3-1/2", NC, W/NUT, 2 FLAT WASHERS
160699	BOLT,HEX HEAD, GALV,3/8"DIA X 3-3/4"L HD, W/2-FLAT WASHERS
160700	BOLT,HEX HEAD, GALV,3/8"DIA X 4"L HD, W/2-FLAT WASHERS

SHEET 4 OF 4

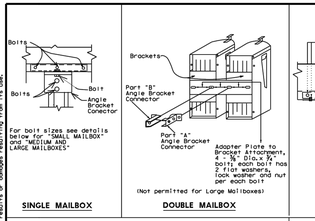
Texas Department of Transportation — Maintenance Division Standard

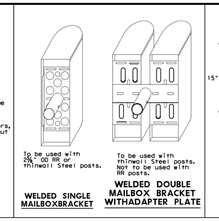
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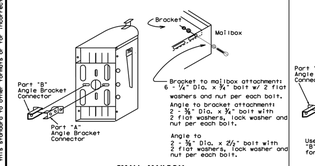
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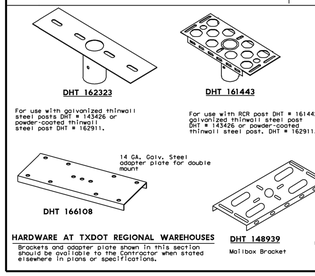
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REVISIONS	DIST	COUNTY		SHEET NO.

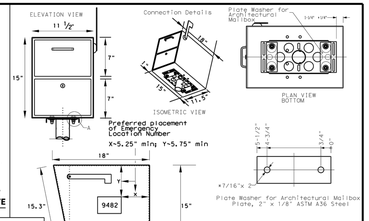
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LOCKABLE ARCHITECTURAL MAILBOX CONNECTION DETAILS

GENERAL NOTES

1. Connecting hardware detailed on this sheet is for the hardware that the Department stocks at the Regional Warehouses. This hardware is available to the contractor only when so stated elsewhere in the plans or specification.
2. Hardware for mounting mailboxes to the supports/foundation furnished by Industry should be used when shown on the Maintenance Divisions "Approved Products List." Only mailbox hardware that have been crash tested in accordance with NCHRP Report 350, will be on the approved list.
3. Hardware furnished by Industry shall be erected in accordance with the manufacturer's recommendation.
4. Bracket and bracket extension shall be constructed of 14 gauge galvanized steel sheet metal.
5. The angles, brackets and adapter plates shall be constructed of 12 gauge galvanized steel sheet metal.
6. Items with evidence of damage to the galvanized coating or wet storage stains (white rust) will not be accepted.

SHEET 2 OF 4

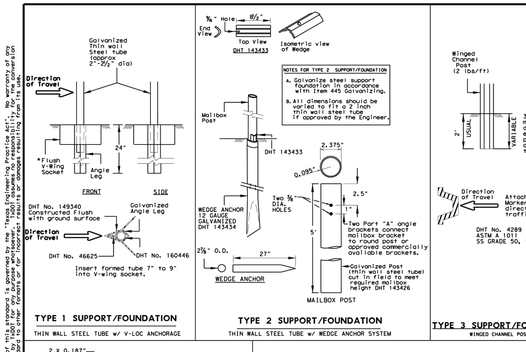
Texas Department of Transportation — Maintenance Division Standard

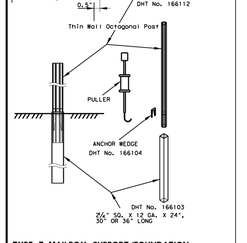
MAILBOX BRACKET CONNECTING DETAILS

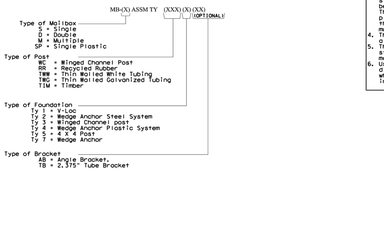
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REVISIONS	DIST	COUNTY		SHEET NO.

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Galvanized Thin wall Steel tube (approx. 2"-2½" dia)
Direction of Travel
*Flush V-Wing Socket
Angle Leg
24"
FRONT
SIDE
DHT No. 149340 Constructed Flush with ground surface
Direction of Travel
Galvanized Angle Leg
DHT No. 46625
DHT No. 160446
Insert formed tube 7" to 9" into V-wing socket.
TYPE 1 SUPPORT/FOUNDATION
THIN WALL STEEL TUBE w/ V-LOC ANCHORAGE
¾" Hole
End View
Top View DHT 143433
Isometric view of Wedge
NOTES FOR TYPE 2 SUPPORT/FOUNDATION
A. Galvanize steel support / foundation in accordance with Item 445 Galvanizing.
B. All dimensions should be varied to fit a 2 inch thin wall steel tube if approved by the Engineer.
Mailbox Post
DHT 143433
2.375"
0.095"
2.5"
1"
Two ¾" DIA. HOLES
5'
Two Part "A" angle brackets connect mailbox post to foundation post with approved commercially available brackets.
2⅜" O.D.
27"
Galvanized Post (thin wall steel tube) cut to length required to meet height DHT 143426
WEDGE ANCHOR
WEDGE ANCHOR 12 GAUGE GALVANIZED DHT 143434
MAILBOX POST
TYPE 2 SUPPORT/FOUNDATION
THIN WALL STEEL TUBE w/ WEDGE ANCHOR SYSTEM
Winged Channel Post (2 lbs/ft)
2"
EQUAL
3' MIN. EMBED
3' in loose material,or as shown elsewhere on plans, or as approved by the Engineer
Direction of Travel
Attach Object Marker facing direction of traffic.
DHT No. 4289 to ASTM A 1011 SS GRADE 50, STEEL.
TYPE 3 SUPPORT/FOUNDATION
WINGED CHANNEL POST
Note on DHT Number See Table of Applicable DHT Numbers on this sheet 4 for DHT description.
*HDTP WEDGE DHT 160892 (INSTALL FLUSH WITH TOP OF 12" DIA x 30" DEEP CONCRETE)
DHT 164116, DHT 162911, OR DHT 161442
Socket DHT 160891
Place wedge on oncoming traffic side.
17"
30"
Class "B" Concrete Foundation in Accordance with Item 421 Hydraulic Cement Concrete
For RR post, galvanized thinwall steel post, or powdercoated steel post. 30" footing is for powdercoated multiple.
7:12
TYPE 4 SUPPORT/FOUNDATION
FOR WHITECOATED STEEL POST, MULTIPLE POST, AND RECYCLED RUBBER.
4"
4X4 Treated Timber Posts 2'-6" Required Embedment
2'-0"
4'-6"
TYPE 5 SUPPORT/FOUNDATION
FOR ONE PIECE MOLDED PLASTIC MAILBOX
ONE PIECE MOLDED PLASTIC MAILBOXES
Molded Plastic Mailboxes shall be installed on 4"x4" treated timber posts only. The use of steel pipe or structural tubing in place of timber post is prohibited.
Angle bracket
Field drill hole in one mailbox for this bolt.
Placed on approved plastic drum as shown in the Traffic Control Plan (TCP) or Work Zone Traffic Control (WZTC). Existing attachment hardware shall be used unless damaged. Damaged hardware shall be replaced.
TYPE 6 TEMPORARY MAILBOX SUPPORT
CONNECTION DETAIL
GENERAL NOTES
1. Erect post plumb or vertical.
2. When galvanized part is required galvanize in accordance with Item 445.
3. Type 1, 2, 3, 4 or 5 supports / foundation can be used for a single mailbox installation. Type 1 support/foundation can be used only for a single installation with a small mailbox. The Type 5 support/foundation is used for the single molded plastic mailbox. The Type 4 support/foundation is used for the 2.375" O.D. RR post, thin wall steel post, and white multiple mailbox post.
4. Type 1, 2, 3, 4 or 5 support/foundation can be used for a multiple mailbox mount.
5. The Type 4 support should be used with thin wall steel pipe for the medium, large and double mailbox installations.
6. Use a concrete footing as shown or when the soil bearing value is 1.5 ksf required when soils do not hold the support/foundations in a stable condition.





DOUBLE AND LARGE MAILBOXES MUST BE ON STEEL POST. *HDTP: High density thermoplastic polyesters

SHEET 3 OF 4

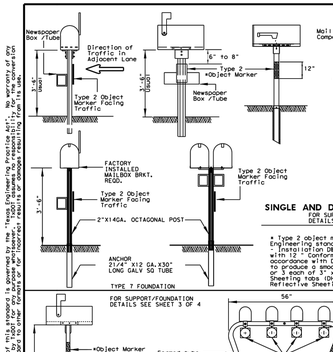
Texas Department of Transportation — Maintenance Division Standard

MAILBOX SUPPORT AND FOUNDATION

MB-15(1)

FILE:MB15(1).DGN	DN: JED	CK:	DW: JED	CK:
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REVISIONS	DIST	COUNTY		SHEET NO.

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Newspaper Box /Tube
Direction of Traffic in Adjacent Lane
Type 2 Object Marker Facing Traffic
3'-6"
6" to 8"
Type 2 Object Marker
Newspaper Box /Tube
12"
Mail Storage Compartment
Typical Molded Plastic Mailbox
Type 2 Object Marker
12"
3'-6"
FACTORY INSTALLED MAILBOX BRKT. REQD.
Type 2 Object Marker Facing Traffic
2"x14GA. OCTAGONAL POST
ANCHOR 21/4" X12 GA.X30" LONG GALV SQ TUBE
TYPE 7 FOUNDATION
SINGLE AND DOUBLE MAILBOX MOUNT
FOR SUPPORT/FOUNDATION DETAILS SEE SHEET 3 OF 4
* Type 2 object marker in accordance with Traffic Engineering standard Delineators & Object Markers. Installation should be from tube type wrapped with Type A sheeting in accordance with DMS 8300 for tubular post needed to produce a smooth wrap around tube, DHT 161812 or 3 each of 3" x 4" Conformable Reflective Sheeting tabs (DHT 1653821 or 1 each of 3" x 12" Reflective Sheeting.
Notes: Mailbox Installations in sidewalk areas shall be in accordance with the latest TxDOT Pedestrian Facilities Curb ramps standard sheet designation for pedestrian facilities.
•PED-XX; XX is the standard year for example PED- 12 , PED-13,etc.
Preferred placement of Emergency Location Number
9482
6" to 8"
Emergency Location Number or Object Marker Type 2
3'-6"
PLACEMENT OF EMERGENCY LOCATION NUMBER
Location Number shall be placed on 1, 2, 4 yellow, type A plate with closs 1 flat surface reflective sheeting in accordance with DMS 8600. The color of numbers shall be black, or 2) A green or blue plate with white numbers attached to post beside the object marker. Other contrasting color combinations may be approved by the engineer. Use same type plate as used for the Type 2 Object Markers. Recommended sign size 18" by 15".
TYPE 7 FOUNDATION
FOR SUPPORT/FOUNDATION DETAILS SEE SHEET 3 OF 4
56"
Secure Newspaper Receptacle with Casting DHT 158358 U-bolt* DHT 163731
Formed tube support frame 2 inch O.D. by .065 wall thickness, Welded mechanical tubing DHT No. 149339
Two-⅜" Dia.x 5" bolt, each bolt has 2 flat washers and nuts.
Angle leg Type 1 Support/Fnd. See Sheet 3 of 4
Direction of Traffic in Adjacent Lane
¾" DIA. HOLES (TYP.)
¾" O.D. x .065 WHITE-COATED PIPE DHT: 164116.
NOTE: - ALL WELDS ¼" AROUND ALL JOINTS. POWDERCOAT WHITE
50"
25"
TYP.
8"
10"
22 ½"
32"
54 ½"
Wedge to be placed on the side of the post adjacent to roadway.
¼" X ½" X 2" FLATS WELDED TO SIDES TO GIVE PROPER HEIGHT & PREVENT TURNING
TYPE 4 FOUNDATION
DOUBLE AND MULTIPLE MAILBOX MOUNT
FOR SUPPORT/FOUNDATION DETAILS SEE SHEET 3 OF 4
FOR DHT NUMBERS SEE SHEET 4 OF 4
Newspaper Box /Tube
Type 2 Object Marker Facing Traffic
¼" BOLT
42.5" MIN. FLAT AREA
Secure Newspaper Receptacle with Casting DHT 158358 U-bolt* DHT 163731 or similar
Direction of Traffic in Adjacent Lane
72"
TYP.
2"x14 GA.OCTAGONAL WHITE COATED OR GALVANIZED STEEL c-90 ZINC COATING DHT 166114 OR DHT 166153
Can be used for all mailbox supports.
SQUARE TUBE ANCHOR 2½"- SQ. X 12 GA. X30" LONG GALVANIZED STEELC-90 ZINC COATING DHT 166103
TYPE 7 FOUNDATION
NEWSPAPER RECEPTACLE
A light weight receptacle for newspaper delivery can be attached to mailbox posts as shown on this page the receptacle:
- Does not touch the mailbox.
- Does not present a hazard to traffic or delivery of the mail.
- Does not extend beyond the front of the mailbox.
- Does not display advertising, except the publication title.
- Newspaper receptacles on separate supports are prohibited.
MULTIPLE MAILBOX MOUNT
INDEX OF MAILBOX DETAIL SHEETS
1 of 4 MAILBOX MOUNTING AND SPACING
2 of 4 MAILBOX BRACKET CONNECTING DETAILS
3 of 4 MAILBOX SUPPORT / FOUNDATION
4 of 4 TABLE OF DHT NUMBERS

TYPICAL MAILBOX SIZE				LIGHT WEIGHT MATERIAL SHEET METAL *+PLASTIC
SIZE	LENGTH	WIDTH	HEIGHT	MAXIMUM WEIGHT
	INCHES			POUNDS
SMALL	19 ½	6	7	5 / 5
MEDIUM	22 ½	8	11 ½	7 / 7
LARGE	23 ½ *	11 ½ *	13 ½ *	10 / 10

* Maximum allowed dimensions for mailbox
** Excluding Mailbox Posts on 4 " X Post

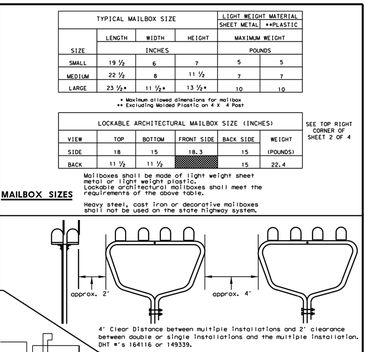
•PED-XX; XX is the standard year for example PED- 12 , PED-13,etc.

LOCKABLE ARCHITECTURAL MAILBOX SIZE (INCHES)					
VIEW	TOP	BOTTOM	FRONT SIDE	BACK SIDE	WEIGHT
SIDE	18	15	18.3	15	(POUNDS)
BACK	11 ½	11 ½		15	22.4

MAILBOX SIZES

Mailboxes shall be made of light weight sheet metal or light weight plastic. Lockable architectural mailboxes shall meet the requirements of the above table.

Heavy steel, cast iron or decorative mailboxes shall not be used on the state highway system.



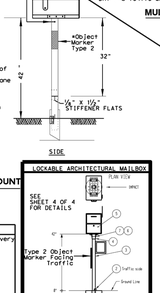
SHEET 1 OF 4

Texas Department of Transportation — Maintenance Division Standard

MAILBOX MOUNTING AND SPACING

MB-15(1)

FILE:MB15(1).DGN	DN: JED	CK: JED	DW:	CK:
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REVISIONS: Added DHT#'s for Newspaper Receptacle for Rural Mailboxes (Detail 1)	DIST	COUNTY		SHEET NO.



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FILENAME: TxDOT DETAILS.dwg
PLOTTED BY: Rhoteah Baker
PLOTTED ON: Wednesday, October 26, 2022
PLOTTED AT: 2:34:12 PM

NO.	REVISION	BY	DATE

TxDOT DESIGNED JLB DRAWN JLB CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE: HORIZ N/A VERT N/A
DATE: OCTOBER 2022

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(TX REG. F-1114)

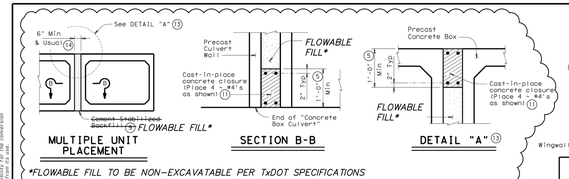
10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS

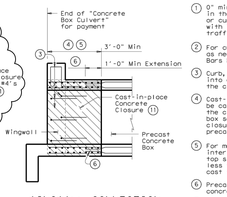
TxDOT MAILBOX DETAILS

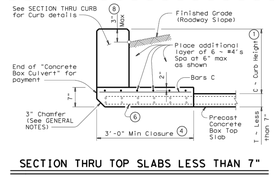
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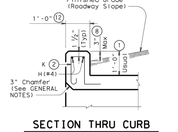
SHEET 7



*FLOWABLE FILL TO BE NON-EXCAVATABLE PER TxDOT SPECIFICATIONS

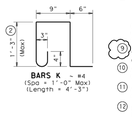


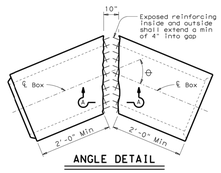


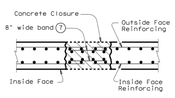


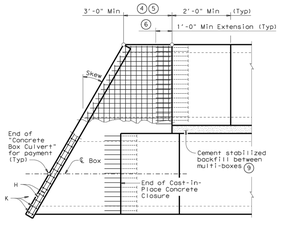
(10) QUANTITIES PER FOOT OF CURB	
Reinforcing Steel	0.18 LB
Concrete	0.037 CY











1. 0" min to 5'-0" max. Estimated curb heights are shown elsewhere in the plans. For structures with pedestrian rail, bicycle rail or curbs taller than 1'-0", refer to ECD standard. For structures with T6 traffic rail, refer to T6-CM standard. For structures with traffic rail, other than T6, refer to RAC standard.
2. For curbs less than 1'-0" high, #1 Bars K or reduce bar height as necessary to maintain cover. For curbs less than 3" high, Bars K may be omitted.
3. Curb, Wingwall or Safety End Treatment reinforcing shall extend into concrete closure. Any reinforcing that does not fit into the closure shall be bent or trimmed as necessary.
4. Cast-in-place concrete closure shall be 3'-0" min. Boxes shall be cast short or broken back in the field. All reinforcing in the closure shall be the same size and spacing as in the precast box section. Except where shown otherwise, the cast-in-place closure shall be flush with the inside and outside faces of the precast box section.
5. For multiple unit placements the length of the closure for the interior walls may be adjusted as necessary. The length of the top slab, bottom slab, and exterior wall closure shall not be less than 3'-0". See Section B-B detail when interior walls are cast full length.
6. Precast box reinforcing shall extend a minimum of 1'-0" into concrete closure (typ).
7. Bands of reinforcing matching the inside and outside face reinforcing shall be placed in the gaps of the top and bottom slabs. A band matching the outside face reinforcing of the wall shall be placed in the gaps of the walls (placed in the outside face only). The bands shall be tack welded to the exposed reinforcing at each point of contact.
8. For vehicle safety, the following requirements must be met:
   - For structures without bridge rail, curbs shall project no more than 3" above finished grade.
   - For structures with bridge rail, curbs shall be flush with finished grade.
   Curb heights shall be reduced, if necessary, to meet the above requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.
9. *FLOWABLE FILL BETWEEN BOXES IS CONSIDERED PART OF THE BOX CULVERT FOR PAYMENT.*
10. All curb concrete and reinforcing is considered part of the Box Culvert for payment.
11. Any additional concrete and reinforcing required for the closures shall be considered as subsidiary to the Concrete Box Culvert.
12. 1'-0" typical. 2'-0" when RAC standard is referred to elsewhere in the plans.
13. For multiple unit placement with overlays, with 1 to 2 course surface treatment, or with the top slab as the final riding surface, provide wall closure as shown in DETAIL "A".
15. This dimension may be increased with approval of the Engineer to allow the precast boxes to be tunneled or jacked in accordance with Item 476, "Jacking, Boring, or Tunneling Pipe or Box". No payment will be made for any additional material in the gap between adjacent boxes.

GENERAL NOTES:
Designed according to AASHTO LRFD Specifications.
All closure concrete shall be Class "C" with a minimum compressive strength of 3600 psi and shall be placed according to the Item, "Concrete Substructures".
Any additional concrete required for the closures shall be considered as subsidiary to the Concrete Box Culvert.
Refer to the Single Box Culverts Precast standard for details not shown.
The bottom edge of the top slab closure shall be chamfered 3 inches at the entrance.

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Texas Department of Transportation — Bridge Division Standard

BOX CULVERTS PRECAST MISCELLANEOUS DETAILS

SCP-MD

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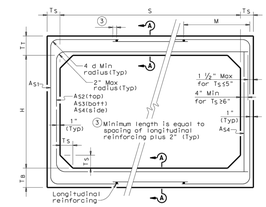
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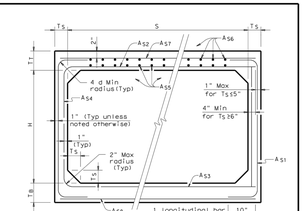
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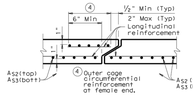
BOX DATA

SECTION DIMENSIONS					Fill Height	M (Min)	REINFORCING (in²/ft) (2)								(1) Lift Weight (Tons)
S (ft)	H (ft)	T_t (in)	T_B (in)	T_S (in)	(ft)	(in)	As1	As2	As3	As4	As5	As6	As7	As8	
5	3	8	7	6	<2	-	0.19	0.31	0.21	0.14	0.19	0.19	0.19	0.17	6.6
5	3	6	6	6	2<3	45	0.18	0.24	0.19	0.14	-	-	-	-	5.7
5	3	6	6	6	3-5	36	0.14	0.17	0.16	0.14	-	-	-	-	5.7
5	3	6	6	6	10	36	0.14	0.16	0.17	0.14	-	-	-	-	5.7
5	3	6	6	6	15	35	0.16	0.21	0.22	0.14	-	-	-	-	5.7
5	3	6	6	6	20	35	0.21	0.27	0.28	0.14	-	-	-	-	5.7
5	3	6	6	6	25	35	0.26	0.34	0.34	0.14	-	-	-	-	5.7
5	3	6	6	6	30	35	0.31	0.41	0.41	0.14	-	-	-	-	5.7
5	4	8	7	6	<2	-	0.19	0.33	0.24	0.14	0.19	0.19	0.19	0.17	7.2
5	4	6	6	6	2<3	45	0.16	0.27	0.22	0.14	-	-	-	-	6.3
5	4	6	6	6	3-5	45	0.14	0.19	0.18	0.14	-	-	-	-	6.3
5	4	6	6	6	10	36	0.14	0.18	0.18	0.14	-	-	-	-	6.3
5	4	6	6	6	15	35	0.14	0.23	0.24	0.14	-	-	-	-	6.3
5	4	6	6	6	20	35	0.17	0.30	0.31	0.14	-	-	-	-	6.3
5	4	6	6	6	25	35	0.21	0.37	0.38	0.14	-	-	-	-	6.3
5	4	6	6	6	30	35	0.25	0.44	0.45	0.14	-	-	-	-	6.3
5	5	8	7	6	<2	-	0.19	0.35	0.26	0.14	0.19	0.19	0.19	0.17	7.8
5	5	6	6	6	2<3	45	0.14	0.29	0.24	0.14	-	-	-	-	6.9
5	5	6	6	6	3-5	45	0.14	0.21	0.20	0.14	-	-	-	-	6.9
5	5	6	6	6	10	45	0.14	0.19	0.20	0.14	-	-	-	-	6.9
5	5	6	6	6	15	36	0.14	0.24	0.25	0.14	-	-	-	-	6.9
5	5	6	6	6	20	35	0.15	0.31	0.32	0.14	-	-	-	-	6.9
5	5	6	6	6	25	35	0.18	0.38	0.39	0.14	-	-	-	-	6.9
5	5	6	6	6	30	35	0.21	0.46	0.47	0.14	-	-	-	-	6.9
5	2	8	7	6	<2	-	0.20	0.31	0.20	0.14	0.22	0.19	0.19	0.17	6.0
5	2	6	6	6	2<3	44	0.39	0.33	0.34	0.14	-	-	-	-	5.1

(1) For Box Length = 8'-0"
(2) As1 thru As4, As7 and As8 are minimum required areas of reinforcement per linear foot of box length. As5 and As6 are minimum required areas of reinforcement per linear foot of box width.
(5) These designs were created by TxDOT and are not shown in the ASTM Specifications.







GENERAL NOTES:
Designs shown conform to ASTM C1577. Refer to ASTM C1577 for information or details not shown.
All concrete shall be Class "H" Concrete with a minimum compressive strength of 5,000 psi.
See SCP-MD standard sheet for miscellaneous details and notes not shown.
In lieu of furnishing the designs shown on this sheet, the contractor may furnish an alternate design that is equal to or exceeds the box design for the design fill height in the table. Shop plans for alternate designs shall be submitted in accordance with Item "Precast Concrete Structural Members (Fabrication)".

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Texas Department of Transportation — Bridge Division Standard

SINGLE BOX CULVERTS PRECAST 5'-0" SPAN

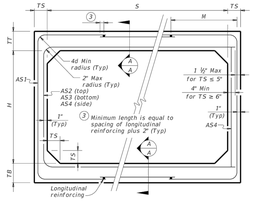
SCP-5

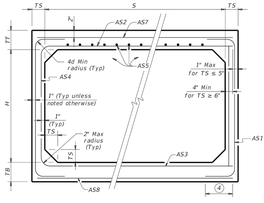
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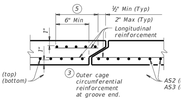
BOX DATA

SECTION DIMENSIONS					Fill Height	M (Min)	REINFORCING (sq. in. / ft.) (2)								(1) Lift Weight (Tons)
S (ft.)	H (ft.)	TT (in.)	TB (in.)	TS (in.)	(ft.)	(in.)	AS1	AS2	AS3	AS4	AS5	AS6	AS7	AS8	
10	4	10	10	10	< 2	-	0.33	0.34	0.27	0.24	0.24	0.24	0.24	0.24	16.5
10	4	10	10	10	2 < 3	58	0.38	0.35	0.30	0.24	-	-	-	-	16.5
10	4	10	10	10	3 - 5	53	0.31	0.28	0.27	0.24	-	-	-	-	16.5
10	4	10	10	10	10	52	0.36	0.32	0.33	0.24	-	-	-	-	16.5
10	4	10	10	10	15	52	0.47	0.42	0.43	0.24	-	-	-	-	16.5
10	4	10	10	10	20	52	0.61	0.54	0.55	0.24	-	-	-	-	16.5
10	4	10	10	10	25	52	0.73	0.67	0.68	0.24	-	-	-	-	16.5
10	5	10	10	10	< 2	-	0.30	0.36	0.30	0.24	0.24	0.24	0.24	0.24	17.5
10	5	10	10	10	2 < 3	58	0.35	0.39	0.34	0.24	-	-	-	-	17.5
10	5	10	10	10	3 - 5	52	0.28	0.31	0.30	0.24	-	-	-	-	17.5
10	5	10	10	10	10	52	0.33	0.35	0.36	0.24	-	-	-	-	17.5
10	5	10	10	10	15	47	0.42	0.46	0.47	0.24	-	-	-	-	17.5
10	5	10	10	10	20	47	0.55	0.59	0.61	0.24	-	-	-	-	17.5
10	5	10	10	10	25	47	0.68	0.73	0.75	0.24	-	-	-	-	17.5
10	6	10	10	10	< 2	-	0.28	0.38	0.33	0.24	0.24	0.24	0.24	0.24	18.5
10	6	10	10	10	2 < 3	58	0.32	0.42	0.37	0.24	-	-	-	-	18.5
10	6	10	10	10	3 - 5	53	0.26	0.34	0.33	0.24	-	-	-	-	18.5
10	6	10	10	10	10	52	0.30	0.38	0.39	0.24	-	-	-	-	18.5
10	6	10	10	10	15	47	0.39	0.49	0.51	0.24	-	-	-	-	18.5
10	6	10	10	10	20	47	0.50	0.63	0.65	0.24	-	-	-	-	18.5
10	6	10	10	10	25	47	0.61	0.78	0.80	0.24	-	-	-	-	18.5
10	7	10	10	10	< 2	-	0.25	0.40	0.36	0.24	0.24	0.24	0.24	0.24	19.5
10	7	10	10	10	2 < 3	58	0.30	0.45	0.40	0.24	-	-	-	-	19.5
10	7	10	10	10	3 - 5	58	0.24	0.36	0.35	0.24	-	-	-	-	19.5
10	7	10	10	10	10	52	0.28	0.40	0.42	0.24	-	-	-	-	19.5
10	7	10	10	10	15	47	0.36	0.52	0.54	0.24	-	-	-	-	19.5
10	7	10	10	10	20	47	0.46	0.67	0.69	0.24	-	-	-	-	19.5
10	7	10	10	10	25	47	0.56	0.82	0.85	0.24	-	-	-	-	19.5
10	8	10	10	10	< 2	-	0.24	0.41	0.38	0.24	0.24	0.24	0.24	0.24	20.5
10	8	10	10	10	2 < 3	64	0.27	0.47	0.43	0.24	-	-	-	-	20.5
10	8	10	10	10	3 - 5	58	0.24	0.38	0.38	0.24	-	-	-	-	20.5
10	8	10	10	10	10	52	0.26	0.42	0.44	0.24	-	-	-	-	20.5
10	8	10	10	10	15	47	0.34	0.54	0.57	0.24	-	-	-	-	20.5
10	8	10	10	10	20	47	0.43	0.69	0.72	0.24	-	-	-	-	20.5
10	9	10	10	10	< 2	-	0.24	0.42	0.41	0.24	0.24	0.24	0.24	0.24	21.5
10	9	10	10	10	2 < 3	70	0.26	0.50	0.46	0.24	-	-	-	-	21.5
10	9	10	10	10	3 - 5	64	0.24	0.40	0.40	0.24	-	-	-	-	21.5
10	9	10	10	10	10	58	0.25	0.43	0.46	0.24	-	-	-	-	21.5
10	9	10	10	10	15	52	0.32	0.56	0.59	0.24	-	-	-	-	21.5
10	9	10	10	10	20	47	0.40	0.71	0.75	0.24	-	-	-	-	21.5
10	10	10	10	10	< 2	-	0.24	0.44	0.44	0.24	0.24	0.24	0.24	0.24	22.5
10	10	10	10	10	2 < 3	79	0.25	0.52	0.48	0.24	-	-	-	-	22.5
10	10	10	10	10	3 - 5	70	0.24	0.42	0.43	0.24	-	-	-	-	22.5
10	10	10	10	10	10	64	0.24	0.44	0.48	0.24	-	-	-	-	22.5
10	10	10	10	10	15	52	0.30	0.57	0.61	0.24	-	-	-	-	22.5
10	10	10	10	10	20	52	0.38	0.73	0.77	0.24	-	-	-	-	22.5

(1) For box length = 8'-0"
(2) AS1 thru AS4, AS7 and AS8 are minimum required areas of reinforcement per linear foot of box length. AS5 is minimum required area of reinforcement per linear foot of box width.







MATERIAL NOTES:
Provide 0.03 sq. in./ft. minimum longitudinal reinforcement at each face in slabs and walls. This minimum requirement may be met by the transverse wires when wire mesh reinforcement is used.
Provide Class H concrete (f'c = 5,000 psi).

GENERAL NOTES:
Designs shown conform to ASTM C1577. Refer to ASTM C1577 for information or details not shown.
See SCP-MD standard sheet for Miscellaneous Details (SCP-MD) standard sheet for details and notes not shown.
In lieu of furnishing the designs shown on this sheet, the contractor may furnish an alternate design that is equal to or exceeds the box design for the design fill height in the table. Submit shop plans for alternate designs in accordance with Item "Precast Concrete Structural Members (Fabrication)".

HL93 LOADING

Texas Department of Transportation — Bridge Division Standard

SINGLE BOX CULVERTS PRECAST 10'-0" SPAN

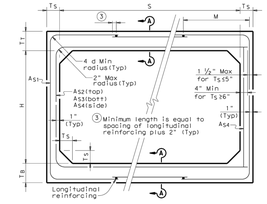
SCP-10

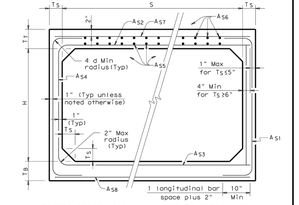
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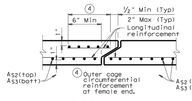
BOX DATA

SECTION DIMENSIONS					Fill Height	M (Min)	REINFORCING (in²/ft) (2)								(1) Lift Weight (Tons)
S (ft)	H (ft)	T_t (in)	T_B (in)	T_S (in)	(ft)	(in)	As1	As2	As3	As4	As5	As6	As7	As8	
3	2	7	6	4	<2	-	0.17	0.25	0.16	0.10	0.17	0.17	0.17	0.14	3.3
3	2	4	4	4	2<3	31	0.13	0.19	0.18	0.10	-	-	-	-	2.4
3	2	4	4	4	3-5	31	0.10	0.11	0.12	0.10	-	-	-	-	2.4
3	2	4	4	4	10	31	0.10	0.10	0.10	0.10	-	-	-	-	2.4
3	2	4	4	4	15	31	0.10	0.13	0.13	0.10	-	-	-	-	2.4
3	2	4	4	4	20	31	0.11	0.17	0.17	0.10	-	-	-	-	2.4
3	2	4	4	4	25	31	0.14	0.21	0.21	0.10	-	-	-	-	2.4
3	2	4	4	4	30	31	0.17	0.25	0.25	0.10	-	-	-	-	2.4
3	2	4	4	4	35	31	0.20	0.29	0.30	0.10	-	-	-	-	2.4
3	3	7	6	4	<2	-	0.17	0.27	0.17	0.10	0.17	0.17	0.17	0.14	3.7
3	3	4	4	4	2<3	31	0.10	0.22	0.21	0.10	-	-	-	-	2.8
3	3	4	4	4	3-5	31	0.10	0.14	0.14	0.10	-	-	-	-	2.8
3	3	4	4	4	10	31	0.10	0.11	0.11	0.10	-	-	-	-	2.8
3	3	4	4	4	15	31	0.10	0.14	0.15	0.10	-	-	-	-	2.8
3	3	4	4	4	20	31	0.10	0.18	0.19	0.10	-	-	-	-	2.8
3	3	4	4	4	25	31	0.10	0.23	0.23	0.10	-	-	-	-	2.8
3	3	4	4	4	30	31	0.12	0.27	0.28	0.10	-	-	-	-	2.8
3	3	4	4	4	35	31	0.14	0.32	0.32	0.10	-	-	-	-	2.8

(1) For Box Length = 8'-0"
(2) As1 thru As4, As7 and As8 are minimum required areas of reinforcement per linear foot of box length. As5 and As6 are minimum required areas of reinforcement per linear foot of box width.







GENERAL NOTES:
Designs shown conform to ASTM C1577. Refer to ASTM C1577 for information or details not shown.
All concrete shall be Class "H" Concrete with a minimum compressive strength of 5,000 psi.
See SCP-MD standard sheet for miscellaneous details and notes not shown.
In lieu of furnishing the designs shown on this sheet, the contractor may furnish an alternate design that is equal to or exceeds the box design for the design fill height in the table. Shop plans for alternate designs shall be submitted in accordance with Item "Precast Concrete Structural Members (Fabrication)".

HL93 LOADING

Texas Department of Transportation — Bridge Division Standard

SINGLE BOX CULVERTS PRECAST 3'-0" SPAN

SCP-3

FILE: scp03x3.dgn	DN: GAF	CK: LRB	DW: BBM/TxDOT	CK: GAF
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TxDOT
DESIGNED: JLB
DRAWN: JLB
CHECKED:

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ: N/A
VERT: N/A
DATE: OCTOBER 2022

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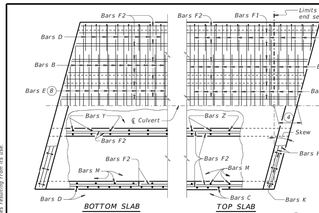
10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS

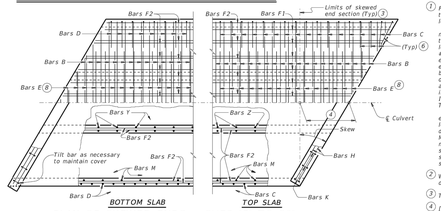
TxDOT BOX CULVERT DETAILS

DA PROJECT B005663.001
SHEET 8

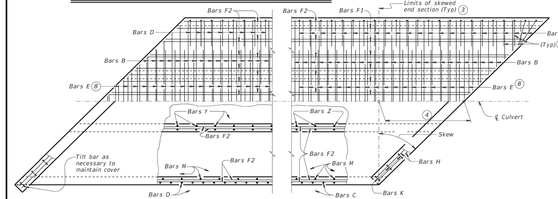
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PLOTTED ON: Wednesday, October 26, 2022
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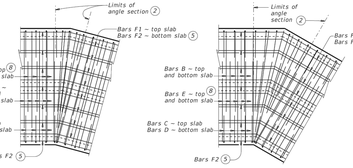
PLAN OF SKEWED ENDS ~ FROM 0° TO 15° 7



PLAN OF SKEWED ENDS ~ OVER 15° TO 30°



PLAN OF SKEWED ENDS ~ OVER 30° TO 45°



PLAN OF ANGLE SECTION ~ FROM 0° TO 15°

PLAN OF ANGLE SECTION ~ OVER 15° TO 30°

PLAN OF ANGLE SECTION ~ OVER 30° TO 45°

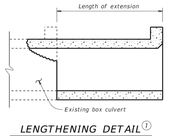
1. For skewed box culverts with less than 2'-0" of fill, break back the top slab to provide a 1'-10" minimum lap of the existing longitudinal bars with the longitudinal bars in the extension.
   For non-skewed box culverts with less than 2'-0" of fill and for skewed or non-skewed culverts with a fill depth of 2'-0" or greater, break back the top slab to provide a 1'-10" minimum lap of the existing longitudinal bars with the longitudinal bars in the extension. Alternatively, if the box is non-skewed, embed #6 anchor bars with a Type III, Class C, D, E, or F anchor adhesive into the existing slab. Bars shall be embedded 15 bar diameters minimum. The minimum embedment depth is 8". Anchor adhesive chosen must be able to achieve a basic bond strength in tension, τ_{cka}, of 26.4 ksi. Submit signed and sealed calculations or the manufacturer's published literature showing the proposed anchor adhesive's ability to develop this load to the Engineer for approval prior to use. Anchor installation, including hole size, drilling, and clean out, must be in accordance with Item 450, "Railing." Test adhesive anchors in accordance with Item 450.3.3, "Tests." Test 3 anchors per 100 anchors installed.
   Break back wings and apron as necessary to install the extension. Clean and extend the exposed wingwall and apron reinforcing into the extension. When lengthening existing box culverts with dimensions different than current standard dimensions, form horizontal and vertical transitions as directed by the Engineer. Match bottom slabs to maintain an uninterrupted flow line. Field bend existing and new reinforcing into transitions and maintain specified cover requirements. For top slabs of culverts with overlay, with 1-to-2 course surface treatment, or with the top slab as the final riding surface, adjust the "H" dimension to provide a smooth riding surface.
2. When the spacing between Bars B or Bars E becomes less than half of the normal spacing, cut bars to avoid conflict.
3. The length of Bars B and Bars E will vary in the skewed end sections.
4. (one half of overall width) x (tangent of the skew angle)
5. Place Bars F1 and F2 continuously through the angle section. Bend Bars F1 and F2 to remain parallel to the walls of the box culvert.
6. When necessary to avoid conflict in acute corners, shorten the slab extension leg of Bars C and Bars D to a minimum of 1'-6" for skews of 30° thru 45°.
7. At the Contractor's option, for skews of 15° or less, place Bars B, C, D, and E parallel to the skewed end while maintaining spacing along centerline of box. Increase lengths of Bars B and Bars E shown on the Multiple Box Culverts Cast-In-Place (MC) standard sheets to accommodate the skew.
8. Extend Bars E as shown on the MC standard sheet for direct traffic culverts.

CONSTRUCTION NOTES:
Do not use permanent forms.
When required, lap Bars H 1'-8" for uncoated or galvanized bars.
Provide a minimum of 1 ½" clear cover.

MATERIAL NOTES:
Provide Grade 60 reinforcing steel.
Provide galvanized reinforcing steel, if required elsewhere in the plans.
Provide Class C concrete (f'_c = 3,600 psi) with these exceptions: provide Class S concrete (f'_c = 4,000 psi) for top slabs of culverts with overlay, with 1-to-2 course surface treatment, or with the top slab as the final riding surface.

GENERAL NOTES:
Designed according to AASHTO LRFD Bridge Design Specifications.
Refer to Multiple Box Culverts Cast-in-Place (MC) standard sheets for details of straight sections of culvert.
For skewed sections and angle sections, refer to Multiple Box Culverts Cast-in-Place (MC) standard sheets for slab and wall dimensions, bar sizes, maximum bar spacing, and any other details not shown.
For skewed ends with curbs, adjust length of Bars H, number of Bars K, curb concrete volume, and reinforcing steel weight by dividing the values shown on the Multiple Box Culverts Cast-in-Place (MC) standard sheets by the cosine of the skew angle.

Cover dimensions are clear dimensions, unless noted otherwise.



LENGTHENING DETAIL 1

HL93 LOADING

Texas Department of Transportation | Bridge Division Standard

MULTIPLE BOX CULVERTS CAST-IN-PLACE MISCELLANEOUS DETAILS

MC-MD

FILE: mc-mdde-20.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
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REVISIONS	DIST	COUNTY		SHEET NO.

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DATE:
FILE:

BILLS OF REINFORCING STEEL (For Box Length = 40 feet)																																				QUANTITIES		
NUMBER OF SPANS	SECTION DIMENSIONS				Bars B				Bars C & D						Bars E				Bars F1 ~ #4				Bars F2 ~ #4				Bars M ~ #4				Bars Y & Z ~ #4						Bars H #4 ~ #4		Bars K		Per Foot of Barrel		Curb		Total	
	S	H	T	U	No.	Size	Spa	Length	Wt.	No.	Size	Spa	Bars C Length	Bars C Wt	Bars D Length	Bars D Wt	No.	Size	Spa	Length	Wt	No.	Size	Spa	Length	Wt	No.	Size	Spa	Length	Wt	No.	Size	Spa	Bars Y Length	Bars Y Wt	Bars Z Length	Bars Z Wt	Length	Wt	No.	Wt	Conc (CY)	Reinf (LB)	Conc (CY)	Reinf (LB)	Conc (CY)	Reinf (LB)
2	3'-0"	2'-0"	8"	7"	108	#5	9"	7'-6"	845	108	#4	9"	5'-4"	385	5'-0"	361	108	#4	9"	5'-11"	427	6	18"	39'-9"	159	32	18"	39'-9"	850	108	9"	2'-0"	144	54	9"	4'-7"	165	5'-3"	189	7'-6"	20	18	50	0.512	88.1	0.6	70	21.1	3,595
3	3'-0"	2'-0"	8"	7"	108	#5	9"	11'-1"	1,248	108	#4	9"	5'-4"	385	5'-0"	361	108	#4	9"	9'-6"	685	9	18"	39'-9"	239	45	18"	39'-9"	1,195	108	9"	2'-0"	144	108	9"	4'-7"	331	5'-3"	379	11'-1"	30	26	72	0.733	124.2	0.8	102	30.2	5,069
4	3'-0"	2'-0"	8"	7"	108	#5	9"	14'-8"	1,652	108	#4	9"	5'-4"	385	5'-0"	361	108	#4	9"	13'-1"	944	12	18"	39'-9"	319	58	18"	39'-9"	1,540	108	9"	2'-0"	144	162	9"	4'-7"	496	5'-3"	568	14'-8"	39	32	89	0.953	160.2	1.1	128	39.2	6,537
5	3'-0"	2'-0"	8"	7"	108	#5	9"	18'-3"	2,056	108	#4	9"	5'-4"	385	5'-0"	361	108	#4	9"	16'-8"	1,202	15	18"	39'-9"	398	71	18"	39'-9"	1,885	108	9"	2'-0"	144	216	9"	4'-7"	661	5'-3"	758	18'-3"	49	40	111	1.173	196.3	1.4	160	48.3	8,010
6	3'-0"	2'-0"	8"	7"	108	#5	9"	21'-10"	2,459	108	#4	9"	5'-4"	385	5'-0"	361	108	#4	9"	20'-3"	1,461	18	18"	39'-9"	478	84	18"	39'-9"	2,230	108	9"	2'-0"	144	270	9"	4'-7"	827	5'-3"	947	21'-10"	58	46	128	1.393	232.3	1.6	186	57.4	9,478
2	3'-0"	3'-0"	8"	7"	108	#5	9"	7'-6"	845	108	#4	9"	6'-4"	457	5'-0"	361	108	#4	9"	5'-11"	427	6	18"	39'-9"	159	38	18"	39'-9"	1,009	108	9"	3'-0"	216	54	9"	4'-7"	165	7'-3"	262	7'-6"	20	18	50	0.577	97.5	0.6	70	23.7	3,971
3	3'-0"	3'-0"	8"	7"	108	#5	9"	11'-1"	1,248	108	#4	9"	6'-4"	457	5'-0"	361	108	#4	9"	9'-6"	685	9	18"	39'-9"	239	53	18"	39'-9"	1,407	108	9"	3'-0"	216	108	9"	4'-7"	331	7'-3"	523	11'-1"	30	26	72	0.819	136.7	0.8	102	33.6	5,569
4	3'-0"	3'-0"	8"	7"	108	#5	9"	14'-8"	1,652	108	#4	9"	6'-4"	457	5'-0"	361	108	#4	9"	13'-1"	944	12	18"	39'-9"	319	68	18"	39'-9"	1,806	108	9"	3'-0"	216	162	9"	4'-7"	496	7'-3"	785	14'-8"	39	32	89	1.061	175.9	1.1	128	43.5	7,164
5	3'-0"	3'-0"	8"	7"	108	#5	9"	18'-3"	2,056	108	#4	9"	6'-4"	457	5'-0"	361	108	#4	9"	16'-8"	1,202	15	18"	39'-9"	398	83	18"	39'-9"	2,204	108	9"	3'-0"	216	216	9"	4'-7"	661	7'-3"	1,046	18'-3"	49	40	111	1.302	215.0	1.4	160	53.4	8,761
6	3'-0"	3'-0"	8"	7"	108	#5	9"	21'-10"	2,459	108	#4	9"	6'-4"	457	5'-0"	361	108	#4	9"	20'-3"	1,461	18	18"	39'-9"	478	98	18"	39'-9"	2,602	108	9"	3'-0"	216	270	9"	4'-7"	827	7'-3"	1,308	21'-10"	58	46	128	1.544	254.2	1.6	186	63.4	10,355

Use this standard only when lengthening existing multiple box culverts.

HL93 LOADING SHEET 2 OF 2

Texas Department of Transportation | Bridge Division Standard

MULTIPLE BOX CULVERTS CAST-IN-PLACE
3'-0" SPAN
0' TO 23' FILL
FOR LENGTHENING ONLY
MC-3-23

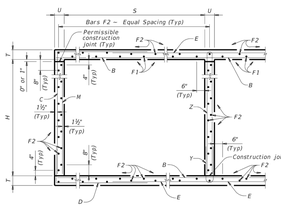
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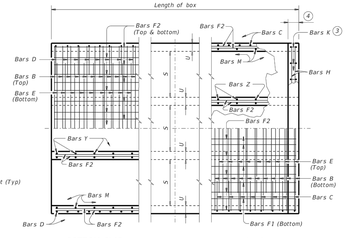
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1. 0" Min to 5'-0" Max. Estimated curb heights are shown elsewhere in the plans. For structures with pedestrian rail or curbs taller than 1'-0", refer to the Extended Curb Details (ECD) standard sheet. For structures with T631 or T631LS bridge rail, refer to the Mounting Details for T631 & T631LS Rails (T631-CH) standard sheet. Refer to the Rail Anchorage Curb (RAC) standard sheet for structures with bridge rail other than T631 or T631LS.
2. For vehicle safety, the following requirements must be met:
   - For structures without bridge rail, construct curbs no more than 3" above finished grade.
   - For structures with bridge rail, construct curbs flush with finished grade.

   Reduce curb heights, if necessary, to meet the above requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.
3. For curbs less than 1'-0" high, tilt Bars K or reduce bar height as necessary to maintain cover. For curbs less than 3" high, Bars K may be omitted.
4. 1'-0" typical. 2'-3" when the Rail Anchorage Curb (RAC) standard sheet is referred to elsewhere in the plans.



TYPICAL SECTION



BOTTOM SLAB PART PLANS TOP SLAB

The Contractor may replace Bars B, C, D, E, F1, F2, M, Y, and/or Z with deformed welded wire reinforcement (WWR) meeting the requirements of ASTM A1064. The area of required reinforcement may be reduced by the ratio of 60 ksi / 70 ksi. Spacing of WWR is limited to 4" Min and 18" Max. When required, provide lap splices in the WWR of the same length required for the equivalent bar size, rounded up for wire sizes between conventional bar sizes. The lap length required for WWR is never less than the lap length required for uncoated #4 bars.

Example conversion: Replacing No. 6 Gr 60 at 6" Spacing with WWR
Required WWR = (0.44 sq. in. per 0.5 ft.) x (60 ksi / 70 ksi) = 0.755 sq. in. per ft.
If D30.6 wire is used to meet the 0.755 sq. in. per ft. requirement in this example, the required spacing = (0.306 sq. in.) / (0.755 sq. in. per ft.) x (12 in. per ft.) = 4.86" Max spacing. Required lap length for the provided D30.6 wire is 2'-1" the same minimum lap length required for uncoated #3 bars, as listed under MATERIAL NOTES).

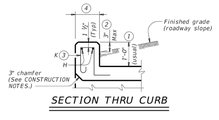
CONSTRUCTION NOTES:
Do not use permanent forms.
Chamfer the bottom edge of the top slab 3" at the entrance.
Optionally, raise construction joints shown at the flow line by a maximum of 6". If this option is taken, Bars M may be cut off or raised, Bars C and D may be reversed, and Bars Y and Z may be reversed.

MATERIAL NOTES:
Provide Grade 60 reinforcing steel.
Provide galvanized reinforcing steel if required elsewhere in the plans.
Provide Class C concrete (f'_c = 3,600 psi) for culvert barrel and curb, with the following exceptions: provide Class S concrete (f'_c = 4,000 psi) for top slabs of:
- culverts with overlay,
- culverts with 1-to-2 course surface treatment, or
- culverts with the top slab as the final riding surface.

Provide bar laps, where required, as follows:
- Uncoated or galvanized ~ #4 = 1'-8" Min
- Uncoated or galvanized ~ #5 = 2'-1" Min

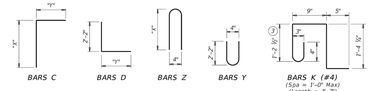
GENERAL NOTES:
Designed according to AASHTO LRFD Bridge Design Specifications for the range of 0' to 23' of fill.
See the Multiple Box Culverts Cast-In-Place Miscellaneous Detail (MC-MD) standard sheet for details pertaining to skewed ends, angle sections, and lengthening.

Cover dimensions are clear dimensions, unless noted otherwise.
Reinforcing bar dimensions shown are out-to-out of bar.



SECTION THRU CURB

TABLE OF BAR DIMENSIONS		
H	"X"	"Y"
2'-0"	2'-6 ½"	2'-8"
3'-0"	3'-6 ½"	3'-8"



BARS C BARS D BARS Z BARS Y BARS K (#4) (Size = 1'-0" Max) (Length = 4'-2")

Use this standard only when lengthening existing multiple box culverts.

HL93 LOADING SHEET 1 OF 2

Texas Department of Transportation | Bridge Division Standard

MULTIPLE BOX CULVERTS CAST-IN-PLACE
3'-0" SPAN
0' TO 23' FILL
FOR LENGTHENING ONLY
MC-3-23

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102960
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MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS

TxDOT BOX CULVERT DETAILS

DA PROJECT B005663.001

SHEET 8A

NUMBER OF SPANS	SECTION DIMENSIONS				BILLS OF REINFORCING STEEL (For Box Length = 40 feet)																																		QUANTITIES					
					Bars B ⑤				Bars C & D				Bars E				Bars F1 ~ #4				Bars F2 ~ #4				Bars M ~ #4				Bars Y & Z ~ #4								Bars H ④ #4 ~ #4		Bars K		Per Foot of Barrel		Curb		Total	
	S	H	T	U	No.	Size	Spa	Length	Wt	No.	Size	Spa	Bars C Length	Bars C Wt	Bars D Length	Bars D Wt	No.	Size	Spa	Length	Wt	No.	Size	Spa	Length	Wt	No.	Size	Spa	Length	Wt	No.	Size	Spa	Bars Y Length	Bars Y Wt	Bars Z Length	Bars Z Wt	No.	Size	Spa	Length	Wt	No.	Size	Spa	Length	Wt	No.	Size	Spa	Length	Wt	No.	Size	Spa	Length	Wt	No.	Size	Spa	Length	Wt	No.	Size	Spa	Length	Wt	No.	Size	Spa	Length	Wt	No.	Size	Spa	Length	Wt	No.	Size	Spa	Length	Wt	No.	Size	Spa	Length	Wt	No.	Size	Spa	Length	Wt	No.	Size	Spa	Length	Wt	No.	Size	Spa	Length	Wt	No.	Size	Spa	Length	Wt	No.	Size	Spa	Length	Wt	No.	Size	Spa	Length	Wt	No.	Size	Spa	Length	Wt	No.	Size	Spa	Length	Wt	No.	Size	Spa	Length	Wt	Conc (CY)	Reinf (Lb)	Conc (CY)	Reinf (Lb)	Conc (CY)	Reinf (Lb)
2	10'-0"	4'-0"	8"	7"	162	#6	6"	21'-6"	5,231	108	#6	9"	10'-4"	1,676	8'-10"	1,433	162	#6	6"	19'-4"	3,731	14	18"	39'-9"	372	66	18"	39'-9"	1,752	108	9"	4'-0"	289	54	9"	4'-7"	165	9'-3"	334	21'-6"	57	46	128	1,333	374.6	1.6	185	54.9	15,168																		

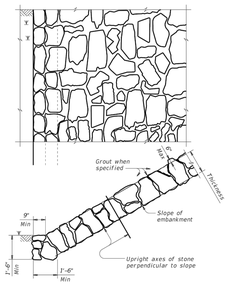


FIGURE 1 ~ TYPE R STONE RIPRAP
dry or grouted

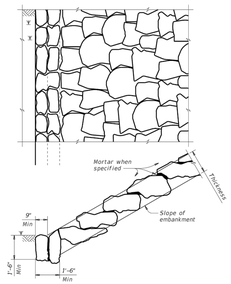


FIGURE 2 ~ TYPE F STONE RIPRAP
dry or mortared

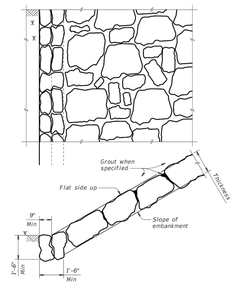


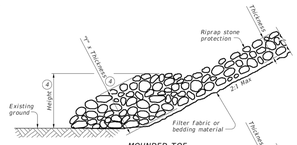
FIGURE 3 ~ TYPE F STONE RIPRAP
grouted

(2) Provide bedding material instead of filter fabric if shown elsewhere in plans. See Layout for thickness of bedding material.

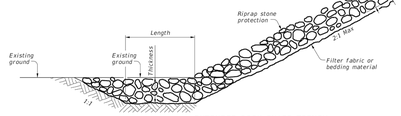
(3) Minimum toe depth is the larger of the maximum scour depth or 2 times the riprap thickness.

(4) "H" and Height need to be defined. See layout or detail sheet for values if this option is used.

(5) List Stone Protection as size (XX inch) and thickness (YY inch) on the layout.
Example: Riprap (Stone Protection) XX inch, Thickness = YY inch.



MOUNDED TOE



EXTENDED ROCK FILLED TRENCH

PROTECTION STONE RIPRAP TOE OPTIONS (5)

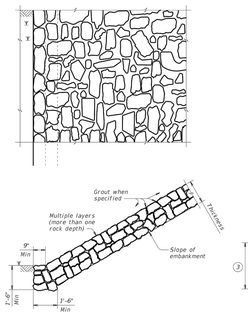


FIGURE 4 ~ COMMON STONE RIPRAP
dry or grouted

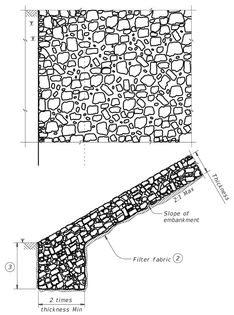


FIGURE 5 ~ PROTECTION STONE RIPRAP (5)

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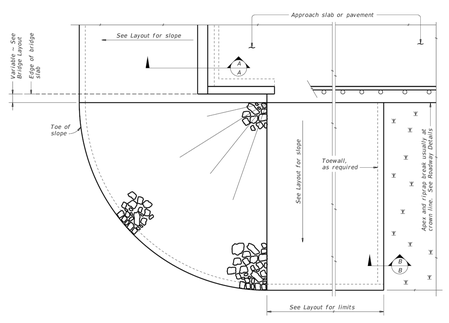
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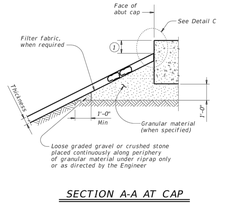
STONE RIPRAP

SRR

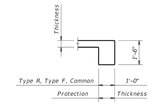
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PLAN

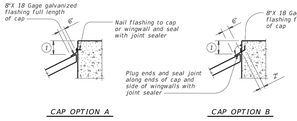


SECTION A-A AT CAP



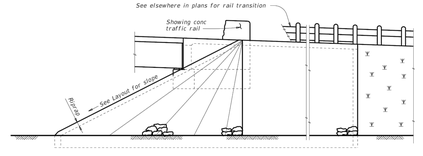
SECTION B-B

Provide toewall when shoulder drain is located adjacent to limits of stone riprap. Omit toewall when thickness of protection riprap is greater than 18".



CAP OPTION A CAP OPTION B

DETAIL C



ELEVATION

(1) Top of cap to top of riprap dimension varies as directed by the Engineer. Provide 9" Min for beam/slab type bridges and 1'-0" for slab span, box beam, or slab beam bridges.

GENERAL NOTES:
Refer to Item 432, "Riprap" for stone size and gradation, and construction details. See Layout for limits and thickness of riprap specified.
See elsewhere in plans for locations and details of shoulder drains.

SHEET 1 OF 2

Texas Department of Transportation | Bridge Division Standard

STONE RIPRAP

SRR

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10/06/22
STATE OF TEXAS
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102960
LICENSED
PROFESSIONAL ENGINEER

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EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS

TxDOT RIPRAP DETAILS

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SHEET 9

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TABLE OF DIMENSIONS AND REINFORCING STEEL
(Wings for one structure end)

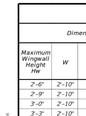
Maximum Wingwall Height Hw	Dimensions W	X	Y	Z	Variable Reinforcing Bars J1 No. Spa	Bars J1 Spa	Bars J2 No. Spa	Bars J2 Spa	Estimated Quantities per ft of wing (2-wings) ④ Reinf (lb/ft)	Conc (CY/ft)	Estimated Quantities per ft of Toewall (1-toewall) Reinf (lb/ft)	Conc (CY/ft)
2'-6"	2'-10"	10"	1'-0"	7"	#4	1'-0"	#4	1'-0"	48.64	0.406	6.85	0.071
2'-9"	2'-10"	10"	1'-0"	7"	#4	1'-0"	#4	1'-0"	49.31	0.424	6.85	0.071
3'-0"	2'-10"	10"	1'-0"	7"	#4	1'-0"	#4	1'-0"	49.98	0.444	6.85	0.071
3'-3"	2'-10"	10"	1'-0"	7"	#4	1'-0"	#4	1'-0"	53.32	0.462	6.85	0.071
3'-6"	2'-10"	10"	1'-0"	7"	#4	1'-0"	#4	1'-0"	53.98	0.480	6.85	0.071
4'-0"	3'-2"	1'-2"	1'-0"	7"	#4	1'-0"	#4	1'-0"	55.77	0.532	6.85	0.071
4'-6"	3'-2"	1'-2"	1'-0"	7"	#4	1'-0"	#4	1'-0"	59.77	0.568	6.85	0.071
5'-0"	3'-2"	1'-2"	1'-0"	7"	#4	1'-0"	#4	1'-0"	63.77	0.632	6.96	0.075
5'-6"	3'-9"	1'-7"	1'-2"	7"	#4	1'-0"	#4	1'-0"	67.46	0.668	6.96	0.075
6'-0"	4'-4"	2'-0"	1'-4"	7"	#5	1'-0"	#5	1'-0"	80.67	0.730	7.07	0.078
6'-6"	4'-4"	2'-0"	1'-4"	7"	#5	1'-0"	#5	1'-0"	85.03	0.768	7.07	0.078
7'-0"	5'-0"	2'-3"	1'-9"	8"	#5	1'-0"	#5	1'-0"	92.15	0.864	8.07	0.093
7'-6"	5'-0"	2'-3"	1'-9"	8"	#5	1'-0"	#5	1'-0"	96.54	0.902	8.07	0.093
8'-0"	5'-6"	2'-8"	1'-10"	8"	#5	6"	#5	6"	139.04	0.962	8.13	0.095
8'-6"	5'-6"	2'-8"	1'-10"	8"	#5	6"	#5	6"	144.47	1.000	8.13	0.095
9'-6"	6'-0"	2'-10"	2'-2"	9"	#5	6"	#5	6"	156.93	1.136	8.41	0.110
10'-6"	6'-5"	3'-0"	2'-5"	9"	#6	6"	#6	6"	196.27	1.234	8.57	0.117
11'-6"	7'-2"	3'-5"	2'-10"	9"	#6	6"	#6	6"	230.13	1.438	9.52	0.140
12'-6"	7'-8"	3'-9"	2'-11"	10"	#7	6"	#6	6"	283.41	1.592	9.74	0.157
13'-6"	8'-2"	4'-0"	3'-2"	11"	#8	6"	#6	6"	348.72	1.804	10.02	0.186
14'-6"	8'-10"	4'-5"	3'-5"	11"	#8	6"	#6	6"	432.94	2.046	10.30	0.218
15'-6"	9'-6"	4'-10"	3'-8"	1'-6"	#9	6"	#7	6"	489.52	2.302	11.24	0.253
16'-0"	9'-11"	5'-0"	3'-11"	1'-7"	#9	6"	#7	6"	505.72	2.448	11.47	0.279

TABLE OF WINGWALL REINFORCING (2-wings)

Bar	Size	No.	Spa
D1	#6	~	1'-0"
D2	#6	~	1'-0"
E1	#4	~	1'-0"
F	#4	~	1'-0"
G	#6	~	8"
M1	#4	4	~
P	#4	~	1'-0"
V	#4	~	1'-0"

TABLE OF TOEWALL REINFORCING

Bar	Size	No.	Spa
J3	#4	~	1'-0"
M2	#4	2	~
E2	#4	~	1'-0"



BARS D1



BARS D2



BARS J1 BARS J2 BARS J3 BARS V

WING DIMENSION FORMULAS:
(All values are in feet.)

Hw = H + T + C
Lw = (Hw) (SL) + cosine (B) for Type PW-1
= (Hw - .5) (SL) + cosine (B) for Type PW-2 and Hw ≥ 4'
= (Hw - 0.5) (SL) + cosine (B) for Type PW-2 and Hw < 4'

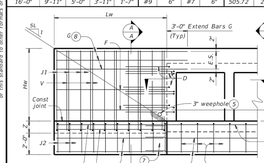
For cast-in-place culverts:
Ltw = (LN) (S) + (N + 1) (U) + cosine (B)
Total Wingwall Area (two wings – SF)
= (2)(Hw)(Lw) for Type PW-1
= (2)(Hw)(Lw - 0.5) SF for Type PW-2 and Hw ≥ 4'
= (2)(Hw)(Lw - 1.5 SF for Type PW-2 and Hw < 4'

Hw = Height of wingwall
Lw = Length of wingwall
Ltw = Culvert toewall length
N = Number of culvert spans
SL:1 = Channel slope ratio (horizontal: 1 vertical, usual value is 2:1)
θ = Culvert skew

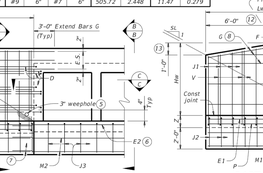
See applicable box culvert standard sheet for S, H, T, and U values.

1. Skew = 0°
2. At discharge end, chamfer may be ¾" minimum.
3. For 15° skew = 1"
   For 30° skew = 2"
   For 45° skew = 3"
4. Quantities shown are for two Type PW-1 wings. Adjust concrete volume for Type PW-2 wings. To determine estimated quantities for two wings, multiply the tabulated values by Lw. Quantities shown do not include weight of Bars D.
5. Provide weepholes for Hw = 5'-0" and greater. Fill around weepholes with coarse gravel.
6. Extend Bars E2 1'-6" minimum into the wingwall footing.
7. Lap Bars M1 1'-6" minimum with Bars M2.
8. Place Bars G as shown, equally spaced at 8" maximum. Provide at least two pairs of Bars G per wing.
9. Of Min to 9'-0" Max. Estimated curb heights are shown elsewhere in the plans. For structures with pedestrian rail or curbs taller than 7'-0, refer to the Extended Curb Details (ECD) standard sheet. For structures with T631 or T631LS bridge rail, refer to the Mounting Details for T631 & T631LS Rails (T631-CM) standard sheet. Refer to the Box Culvert Rail Mounting Details (RAC) standard sheet for structures with bridge rail other than T631 or T631LS.
10. For vehicle safety, the following requirements must be met:
    - For structures without bridge rail, construct curbs no more than 3" above finished grade.
    - For structures with bridge rail, construct curbs flush with finished grade.

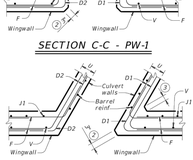
    Reduce curb heights, if necessary, to meet the above requirements. No changes will be made in quantities and no additional compensation will be allowed for this work.
11. 1'-0" typical. 2'-3" when the Box Culvert Rail Mounting Details (RAC) standard sheet is referred to elsewhere in the plans.
12. 3'-0" for Hw < 4'.
13. 6" for Hw < 4'.



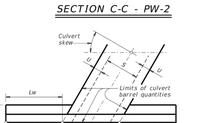
PARTIAL ELEVATION - PW-1



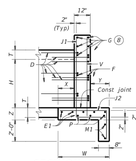
PARTIAL ELEVATION - PW-2



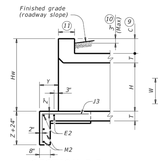
SECTION C-C - PW-1



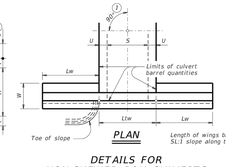
SECTION C-C - PW-2



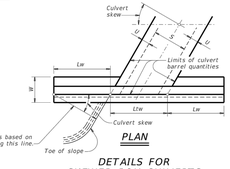
SECTION A-A
(Showing wing reinforcement.)



SECTION B-B
(Showing wing reinforcement.)



PLAN
DETAILS FOR NON-SKEWED BOX CULVERTS



PLAN
DETAILS FOR SKEWED BOX CULVERTS
(Showing 30° skew.)

DESIGNER NOTES:
Type PW-1 can be used for all applications and must be used if railing is to be mounted to the wingwall.
Type PW-2 can only be used for applications without a railing mounted to the wingwall.

MATERIAL NOTES:
Provide Class C concrete (f'c=3,600 psi).
Provide Grade 60 reinforcing steel.
Provide galvanized reinforcing steel if required elsewhere in the plans.

GENERAL NOTES:
Designed in accordance with AASHTO LRFD Bridge Design Specifications.
Depth of toewalls for wingwalls and culverts may be reduced or eliminated when founded on solid rock, when directed by the Engineer.
See Box Culvert Supplement (BCS) standard sheet for wingwall type and additional dimensional information.
Quantities for concrete and reinforcing steel resulting from the formulas given on this sheet are for the Contractor's information only.

Cover dimensions are clear dimensions, unless noted otherwise. Reinforcing dimensions are out-to-out of bars.

Texas Department of Transportation | Bridge Division Standard

CONCRETE WINGWALLS WITH PARALLEL WINGS FOR BOX CULVERTS TYPES PW-1 AND PW-2

PW

FILE:	bwall601-20.dgn	DN: TxDOT	CK: TxDOT	DW: TxDOT	CK: TxDOT
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REVISIONS		DIST	COUNTY		SHEET NO.

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DATE:
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MAXIMUM PIPE RUNNER LENGTHS & REQUIRED PIPE RUNNER SIZES

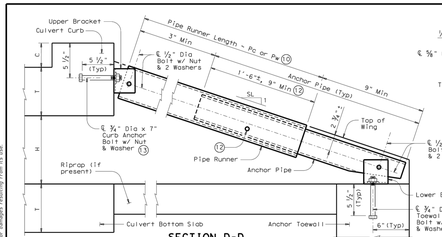
Maximum Pipe Runner Length (Pc or Pw)	Required Pipe Size	Required Pipe O.D.	Required Pipe I.D.	Required Anchor Pipe Size	Required Anchor Pipe O.D.	Required Anchor Pipe I.D.
9'-4"	3" STD	3.500"	3.068"	2" STD	2.375"	2.067"
19'-0"	4" STD	4.500"	4.026"	3" STD	3.500"	3.068"
33'-6"	5" STD	5.563"	5.047"	4" STD	4.500"	4.026"

(10) If Pipe Runner Length Pw is 1'-9" or less, a single Non-Sliding Pipe Runner shall replace the Curb Pipe Runner and Anchor Pipe. See NON-SLIDING PIPE RUNNER DETAILS for additional information.

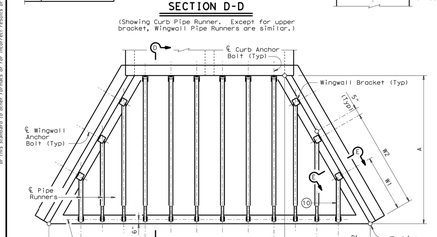
(11) At Contractor's option, ⅞" diameter hole may be formed or cored drilled. Percussion drilling is not permitted. Adjust placement of reinforcing steel as necessary to avoid bolt holes.

(12) After installation of Pipe Runner, the ½" inspection hole shall be utilized to ensure that the lap of the Anchor Pipe with the Pipe Runner is adequate.

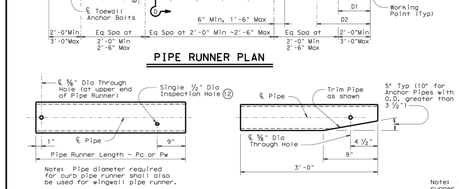
(13) At Contractor's option, an epoxy anchorage system may be used. Anchorage system chosen must be able to achieve an ultimate tensile resistance of 20 kips. Anchor diameter shall be ¾". The Contractor must provide evidence to the Engineer that this can be achieved. Evidence of adequate tensile resistance can be based on the manufacturer's published values of ultimate tensile strength, anchor spacing and edge distance must be accounted for. Anchor installation, including hole size, drilling, and clean-out, must be in accordance with the manufacturer's recommendations.



SECTION D-D
(Showing Curb Pipe Runner. Except for upper bracket, Wingwall & Pipe Runners are similar.)

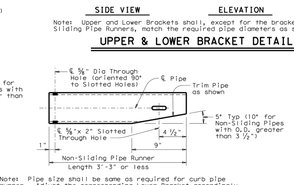


PIPE RUNNER PLAN

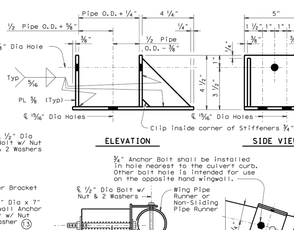


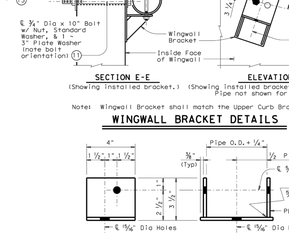
PIPE RUNNER DETAILS

ANCHOR PIPE DETAILS



NON-SLIDING PIPE RUNNER DETAILS





WINGWALL BRACKET DETAILS

UPPER & LOWER BRACKET DETAILS

PIPE RUNNER DIMENSION CALCULATIONS:

Formulas: (All values are in Feet)

W'n" = (2.000) (D"n") – (0.416)
Pw"n" = (D"n") (K2) – (2.063)
PW1 Non-Sliding Pipe Runner (if required)
= (D1) (K2) – (0.563)
Pc = (A) (K1) – (1.688)

W'n" = Distance from Working Point to centerline Anchor Bolt measured along bottom inside face of Wing
D"n" = Distance from Working Point to centerline Pipe Runner measured along outside face of Anchor Toewall
Pw = Wingwall Pipe Runner Length
Pc = Curb Pipe Runner Length
K = Constant Values for use in formulas

Slope SL:1	K1	K2
3:1	1.054	1.826
4:1	1.031	1.785
6:1	1.014	1.756

"n" = Wing Pipe Runner Number

SHEET 2 OF 3

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SAFETY END TREATMENT WITH FLARED WINGS

FOR 0° SKEW BOX CULVERTS
TYPE I – CROSS DRAINAGE

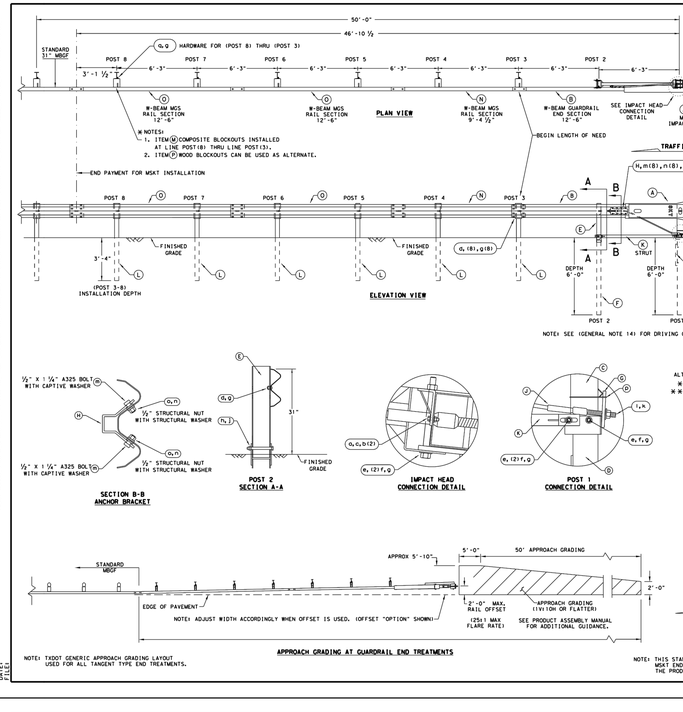
SETB-FW-0

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11-20: Add note for synthetic fibers.					

FILE NAME: G:\Production\40000\00005\40031\001\Civil\Drawings\Plot Sheets\TxDOT DETAILS.dwg

Culvert Station and/or Creek name followed by applicable end (Lt, Rt, or Both) ⑥	Lc (Ft)	L1 (Ft)	L2 No. Spa	L2 Spa at (Ft)	L2 Overall Length (Ft)	D1 (Ft)	L3 No. Spa	L3 Spa at (Ft)	L3 Overall Length (Ft)	W1 (Ft)	L4 No. Spa	L4 Spa at (Ft)	L4 Overall Length (Ft)	L5 (Ft)	Curb Pipe Runner (Pc) No.	Curb Pipe Runner (Pc) Length (FT)	Longest Wing Pipe Runner (Pw) (Ft)	Shortest Wing Pipe Runner (Pw) (Ft)	Non-Sliding Wing Pipe Runner (if applicable) (Ft)	Curb, Wing, and/or Non-Sliding Pipe Runners Size (3", 4" or 5")	Curb, Wing, and/or Non-Sliding Pipe Runners Total ⑭ Length (FT)	3'-0" Anchor Pipe (2", 3" or 4") Size	3'-0" Anchor Pipe Total ⑭ Length (FT)

DISCLAIMER:
THE USE OF THIS STANDARD IS GOVERNED BY THE "TEXAS ENGINEERING PRACTICE ACT". NO WARRANTY OF ANY KIND IS MADE BY TXDOT OR ANY PURPOSE WHATSOEVER. THE SEALING ENGINEER IS RESPONSIBLE FOR THE CONFORMITY OF THIS STANDARD TO GOOD ENGINEERING PRACTICE. TXDOT ASSUMES NO RESPONSIBILITY FOR THE CONFORMITY OF THIS STANDARD TO OTHER CRITERIA OR FOR ITS APPLICATION.



GENERAL NOTES

1. FOR SPECIFIC INFORMATION REGARDING INSTALLATION AND TECHNICAL GUIDANCE OF THE MSKT END TERMINAL SYSTEMS, INC. (432)263-2435, 3616 OLD HOWARD COUNTY AIRPORT, BIG SPRING, TX 79720.
2. FOR INSTALLATION, REPAIR AND MAINTENANCE REFER TO THE MSKT END TERMINAL, PRODUCT DESCRIPTION ASSEMBLY MANUAL (PUBLICATION-062711).
3. APPLY HIGH INTENSITY REFLECTIVE SHEETING, "OBJECT MARKER" ON THE FRONT FACE OF THE DEVICE PER MANUFACTURER'S RECOMMENDATIONS. OBJECT MARKER SHALL CONFORM TO THE STANDARDS REQUIRED IN TEXAS MUTCD.
4. FOR POST (LEAVE-OUT) INSTALLATION AND GUIDANCE SEE TXDOT'S LATEST ROADWAY MOW STRIP STANDARD.
5. HARDWARE (BOLTS, NUTS, & WASHERS) SHALL BE GALVANIZED IN ACCORDANCE WITH ITEM 445, "GALVANIZING." FITTINGS SHALL BE SUBSIDIARY TO THE BID ITEM.
6. SYSTEM SHOWN USING STEEL WIDE FLANGE POSTS WITH COMPOSITE BLOCKOUTS.
7. A COMPOSITE MATERIAL BLOCKOUTS THAT MEETS THE REQUIREMENTS OF DMS-7210, MAY BE SUBSTITUTED FOR BLOCKOUTS OF SIMILAR DIMENSIONS. SEE CONSTRUCTION DIVISION MATERIAL PRODUCER LIST (MPL) FOR CERTIFIED PRODUCERS.
8. IF SOLID ROCK IS ENCOUNTERED IN THE AREA OF (POST 1) AND / OR (POST 2) CONTACT THE MANUFACTURER, & REFER TO THE LATEST ROADWAY MBGF STANDARD FOR INSTALLATION GUIDANCE.
9. POSTS SHALL NOT BE SET IN CONCRETE.
10. SYSTEM MUST BE ATTACHED TO STANDARD 31" MBGF.
11. UNDER NO CIRCUMSTANCES SHALL THE GUARDRAIL WITHIN THE MSKT SYSTEM BE CURVED.
12. A FLARE RATE OF UP TO 2511 MAY BE USED TO PREVENT THE TERMINAL HEAD FROM BEING PLACED IN THE CLEAR ZONE. THE FLARE RATE MAY BE DECREASED OR ELIMINATED FOR SPECIFIC INSTALLATIONS, IF DIRECTED BY THE ENGINEER.
13. THE SYSTEM IS SHOWN WITH TWO 12'-6" MBGF PANELS, ONE 25'-0" MBGF PANEL IS ALSO ALLOWED IN THIS PLACE.
14. A DRIVING CAP WITH A TIMBER OR PLASTIC INSERT SHALL BE USED WHEN DRIVING POSTS 3-8 TO PREVENT DAMAGE TO THE GALVANIZING ON TOP OF THE POST. SPECIAL DRIVING CAP TO BE USED ON LOWER POSTS 1 & 2 TO PREVENT DAMAGE TO THE WELDED PLATES.

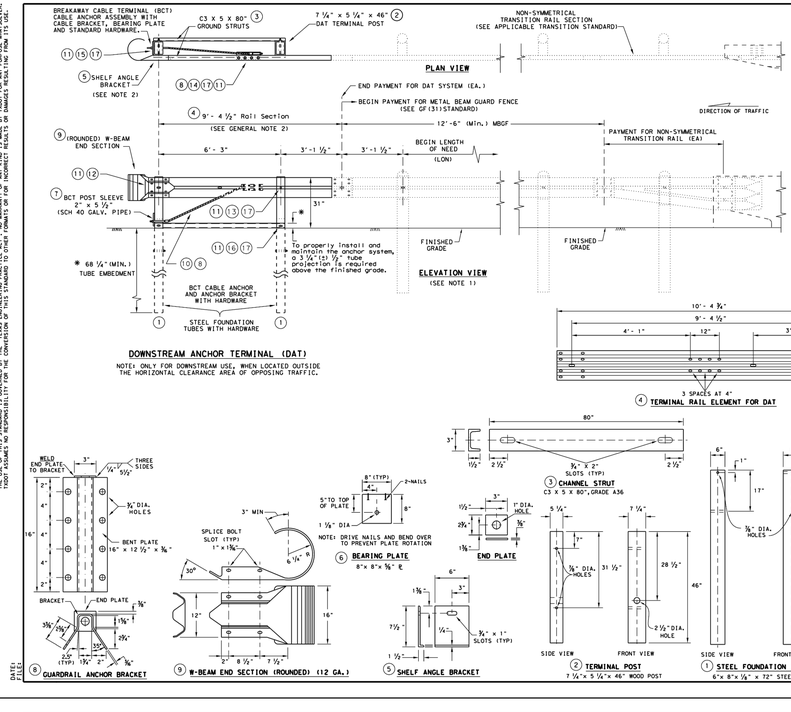
ITEM	QTY	MAIN SYSTEM COMPONENTS	ITEM NUMBERS
A	1	MSKT IMPACT HEAD	M53000
B	1	W-BEAM GUARDRAIL END SECTION, 12 Go.	SF1303
C	1	POST 1 - TOP 16" X 6" X ⅜" TUBE:	MTPHP1A
D	1	POST 1 - BOTTOM (6' W6X15)	MTPHP1B
E	1	POST 2 - ASSEMBLY TOP	LHP2A
F	1	POST 2 - ASSEMBLY BOTTOM (6' W6X9)	HP2B
G	1	BEARING PLATE	E750
H	1	CABLE ANCHOR BOX	S760
J	1	BCT CABLE ANCHOR ASSEMBLY	E770
K	1	GROUND STRUT	M5785
L	6	W6x9 OR W6x8.5 STEEL POST	P621
M	6	COMPOSITE BLOCKOUTS	CBSP-14
N	1	W-BEAM MGS RAIL SECTION (9'-4 ½")	G12025
O	2	W-BEAM MGS RAIL SECTION (12'-6")	G1203A
P	6	WOOD BLOCKOUT 6" X 8" X 14"	P675
Q	1	W-BEAM GUARDRAIL END SECTION (25'-0")	G1209
		SMALL HARDWARE	
a	2	⅝" x 1" HEX BOLT (GRD 5)	B516010A4
b	4	⅝" WASHER	W0516
c	2	⅝" HEX NUT	N0516
d	23	⅝" DIA. x 1 ½" SPLICE BOLT (POST 2)	B580122
e	2	⅝" DIA. x 9" HEX BOLT (GRD A449)	B580904A
f	3	⅝" WASHER	W050
g	33	⅝" DIA. H.G.R NUT	N050
h	1	¾" DIA. x 8 ½" HEX BOLT (GRD A449)	B340854A
i	1	¾" DIA. HEX NUT	NO30
k	2	1 ANCHOR CABLE HEX NUT	N100
l	2	1 ANCHOR CABLE WASHER	W100
m	8	½" x 1 ¼" A325 BOLT WITH CAPTIVE WASHER	SB12A
n	8	½" STRUCTURAL NUTS	NO12A
o	8	1 ¼" O.D. x ⅝" I.D. STRUCTURAL WASHERS	WO12A
p	1	BEARING PLATE RETAINER TIE	C1-1005T
Q	6	⅝" x 10" H.G.R. BOLT	B581002
r	1	OBJECT MARKER 18" X 18"	E3151

Texas Department of Transportation | Design Division Standard

SINGLE GUARDRAIL TERMINAL
MSKT-MASH-TL-3
SGT(12S)31-18

FILE: sgt12s31fa.dgn	DN:TxDOT	CK:KM	DW:VP	CK:CL
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REVISIONS	DIST	COUNTY		SHEET NO.

DATE:
FILE:



GENERAL NOTES

1. THE DETAIL SHOWN IS THE MINIMUM LENGTH OF NEED (LON) FOR A DOWNSTREAM ANCHOR TERMINAL (DAT) CONNECTED TO A CONCRETE RAIL.
2. THE RAIL SECTION AT THE END POST IS SUPPORTED BY THE SHELF ANGLE BRACKET. THE RAIL ELEMENT IS NOT ATTACHED TO THE END POST.
3. THE FOUNDATION TUBES SHALL NOT PROJECT MORE THAN 3 ¾" ABOVE THE FINISHED GRADE.
4. ALL HARDWARE FOR DAT SHALL BE ASTM A307 UNLESS OTHERWISE SHOWN.
5. REFER TO GF(31) SHEET FOR TERMINAL CONNECTION DETAILS.

MOW STRIP INSTALLATION

IF A MOW STRIP IS REQUIRED WITH THE DAT INSTALLATION THE LEAVE-OUT AREA AROUND THE STEEL FOUNDATION TUBES AND THE TWO CHANNEL STRUTS MAY BE OMITTED. THIS WILL REQUIRE A FULL POUR AT THE FOUNDATION TUBES.

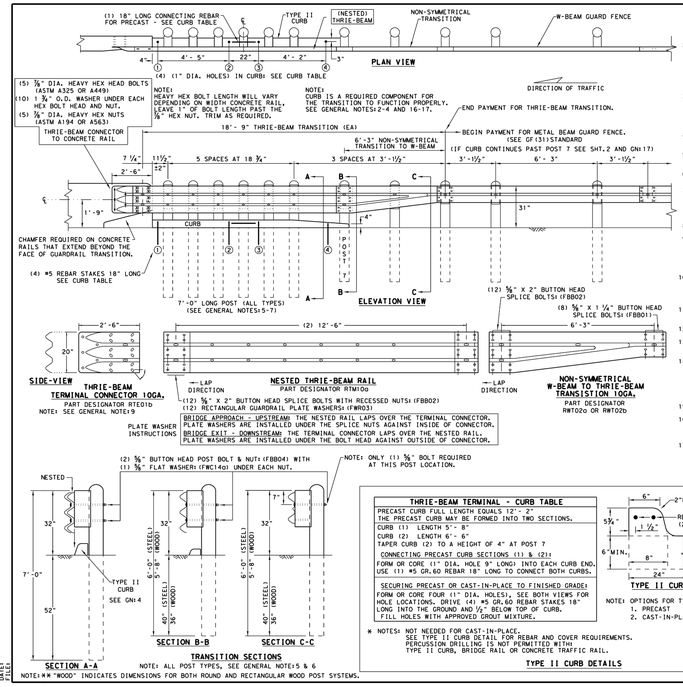
#	(DAT) PARTS LIST	QTY
(1)	STEEL FOUNDATION TUBE	2
(2)	DAT TERMINAL POST	2
(3)	CHANNEL STRUT	2
(4)	TERMINAL RAIL ELEMENT	1
(5)	SHELF ANGLE BRACKET	1
(6)	BCT BEARING PLATE	1
(7)	BCT POST SLEEVE	1
(8)	GUARDRAIL ANCHOR BRACKET	1
(9)	(ROUNDED)W-BEAM END SECTION	1
(10)	BCT CABLE ANCHOR	1
(11)	RECESSED NUT, GUARDRAIL	20
(12)	1 ¼" BUTTON HEAD BOLT	4
(13)	10" BUTTON HEAD BOLT	2
(14)	⅝" X 2" HEX HEAD BOLT	8
(15)	⅝" X 8" HEX HEAD BOLT	4
(16)	⅝" X 10" HEX HEAD BOLT	2
(17)	⅜" FLAT WASHER	18

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METAL BEAM GUARD FENCE
(DOWNSTREAM ANCHOR TERMINAL)
TL-3 MASH COMPLIANT
GF(31)DAT-19

FILE: gf31dat19.dgn	DN:TxDOT	CK:KM	DW:VP	CK:CCL/AG
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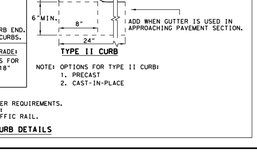


GENERAL NOTES

1. CONTACT THE DESIGN DIVISION FOR DRAINAGE CUT OUT OPTIONS NEEDED WITHIN THE CURB SECTION OF THE THRIE-BEAM TRANSITION. (512) 416-2678
2. CONCRETE CURB MAY BE CAST-IN-PLACE OR PRECAST AS SHOWN ON THIS SHEET. WHEN USED IN CONJUNCTION WITH THE THRIE-BEAM TRANSITIONS, CURB SHALL BE TYPE II (5- ⅜") HEIGHT; SEE CURRENT CCCG STANDARD SHEET FOR FURTHER DETAILS. IF OTHER CURB HEIGHTS ARE SHOWN IN THE PLANS IN CONJUNCTION WITH THE TRANSITION, THE CURB HEIGHT MAY BE FROM 4" TO 8" WITH A RELATIVELY VERTICAL FACE. CONCRETE CURB SHALL BE CONTINUOUS TO THE SEVENTH POST UNLESS OTHERWISE SHOWN IN THE PLANS. SEE GENERAL NOTE#17 FOR CIRCUMSTANCES WHERE CURB CONTINUES PAST POST 7.
3. CONCRETE CURB TYPE II IS SUBSIDIARY TO "METAL BEAM GUARD FENCE TRANSITION", IF NO ADDITIONAL CURB IS INDICATED BEYOND THE TRANSITION, THEN ANY CURB HEIGHT GREATER THAN 4" MAY BE TAPERED BEGINNING AT THE LAST 2'-0" FT. POST TO A MAXIMUM HEIGHT OF 4" AT POST 7, IF SHOWN ELSEWHERE IN THE PLANS, ADDITIONAL CURB UNDERNEATH GUARDRAIL WILL BE PAID FOR BY THE LINEAR FOOT.
4. UNLESS OTHERWISE SHOWN IN THE PLANS, TRANSITIONS SHALL BE PLACED WITH THE BLOCKOUT FACE IN FRONT OF OR DIRECTLY ABOVE THE CURB FACE. SEE SECTION A-A.
5. FOR ROUND WOOD POST SYSTEMS, ALL ROUND WOOD POSTS SHALL BE 7 ½" DIA. MINIMUM THROUGHOUT THE THRIE-BEAM TRANSITION.
6. THE TYPE OF POST (ROUND WOOD POST, RECTANGULAR WOOD POST OR STEEL POST) WILL BE AS SHOWN IN THE PLANS. REFER TO GF(31) STANDARD SHEET.
7. THE POST LENGTH SHALL BE MARKED ON ALL 7'- 0" LONG POSTS BY THE MANUFACTURER. THE MARK SHALL BE LOCATED WITHIN THE TOP 1 FT. REGION OF THE POST, AT LEAST ⅜" IN HEIGHT, AND VISIBLE AFTER INSTALLATION. WOODEN POSTS SHALL BE MARKED WITH A BRAND, AND STEEL POSTS WITH A STENCIL BEFORE GALVANIZING.
8. POSTS SHALL NOT BE SET IN CONCRETE, OF ANY DEPTH.
9. RAIL ELEMENTS SHALL MEET THE REQUIREMENTS OF ITEM 540,"METAL BEAM GUARD FENCE" EXCEPT AS MODIFIED ON THE PLANS. THE THRIE-BEAM TERMINAL CONNECTOR AND THE THRIE-BEAM TRANSITION TO W-BEAM SHALL BE OF THE SAME MATERIAL, BUT SHALL NOT BE LESS THAN 10 GAUGE. CONTRACTOR SHALL VERIFY THAT THE LOCATIONS OF BOLT HOLES MATCH THOSE IN THE THRIE-BEAM TERMINAL CONNECTOR PRIOR TO ORDERING MATERIALS.
10. BUTTON HEAD "POST BOLTS & NUTS" SHALL MEET THE REQUIREMENTS OF (ASTM A307), AND SHALL BE OF SUFFICIENT LENGTH TO EXTEND THROUGH THE FULL THICKNESS OF THE NUT AND ⅜" WASHER (FWC16) AND NOT MORE THAN 1" BEYOND IT. TRIM REMAINING BOLT LENGTH TO MEET REQUIRED LENGTH.
11. FITTINGS (BOLTS, NUTS, AND WASHERS) SHALL BE GALVANIZED IN ACCORDANCE WITH ITEM 445,"GALVANIZING". FITTINGS SHALL BE SUBSIDIARY TO THE BID ITEM.
12. CROWN SHALL BE WIDENED TO ACCOMMODATE TRANSITIONS.
13. WHERE SOLID ROCK IS ENCOUNTERED, CONTACT THE DESIGN DIVISION FOR ADDITIONAL GUIDANCE. (512) 416-2678
14. UNLESS OTHERWISE SHOWN IN THE PLANS, A COMPOSITE MATERIAL BLOCK THAT MEETS THE REQUIREMENTS OF DMS-7210, "COMPOSITE MATERIAL POSTS AND BLOCKS FOR METAL BEAM GUARD FENCE" MAY BE SUBSTITUTED FOR BLOCKS OF SIMILAR DIMENSIONS. THE CONSTRUCTION DIVISION MAINTAINS A MATERIAL PRODUCER LIST (MPL) FOR PRODUCERS OF MATERIALS CONFORMING TO DMS-7210. ONLY PRODUCERS ON THE MPL CAN FURNISH COMPOSITE MATERIAL BLOCKS.
15. REFER TO GF(31)STANDARD SHEET & BRIDGE RAILING DETAILS FOR ADDITIONAL DETAILS.
16. THE INSTALLATION OF THE TYPE II CURB IS CRITICAL FOR THE PERFORMANCE OF THE THRIE-BEAM TRANSITION SYSTEM. THE CURB PREVENTS VEHICLE WHEEL SNAGGING AT THE CONCRETE RAIL AND IS REQUIRED TO MEET MASH CRASH TEST CRITERIA.
17. IF CURB EXTENDS BEYOND POST 7, 25'- 0" NESTED W-BEAM GUARDRAIL SHALL BE INSTALLED BEYOND THE PAY LIMITS OF THRIE-BEAM TRANSITION SECTION, (SEE SHT.2), PAYMENT FOR THIS 25' NESTED RAIL BE BY LINEAR FOOT, USE ITEM "6540 6XXX MTL W-BEAM GD FEN (NESTED)(TIM POST)" OR "540 6XXX MTL W-BEAM GD FEN (NESTED)(STEEL POST)" AS APPLICABLE FOR POST TYPE. SEE SHT.2 FOR ADDITIONAL INFORMATION.

THRIE-BEAM TERMINAL - CURB TABLE
PRECAST CURB FULL LENGTH EQUALS 12'- 2" THE PRECAST CURB MAY BE FORMED INTO TWO SECTIONS.
CURB (1) LENGTH 5'- 8"
CURB (2) LENGTH 6'- 6"
TAPER CURB (2) TO A HEIGHT OF 4" AT POST 7
CONNECTING PRECAST CURB SECTIONS (1) & (2): FORM OR CORE (1" DIA. HOLE 9" LONG) INTO EACH CURB END, USE (1) #5 GR.60 REBAR 18" LONG TO CONNECT BOTH CURBS.
SECURING PRECAST OR CAST-IN-PLACE TO FINISHED GRADE: FORM OR CORE FOUR (1" DIA. HOLES), SEE BOTH VIEWS FOR HOLE LOCATIONS. DRIVE (4) #5 GR.60 REBAR STAKES 18" LONG INTO THE GROUND AND ½" BELOW TOP OF CURB. FILL HOLES WITH APPROVED GROUT MIXTURE.

※ NOTES: NOT NEEDED FOR CAST-IN-PLACE.
SEE TYPE II CURB DETAIL FOR REBAR AND COVER REQUIREMENTS.
PERCUSSION DRILLING IS NOT PERMITTED WITH TYPE II CURB, BRIDGE RAIL OR CONCRETE TRAFFIC RAIL.



TYPE II CURB DETAILS

*SHEET 2 OF 2 NOT REQUIRED

HIGH-SPEED TRANSITION

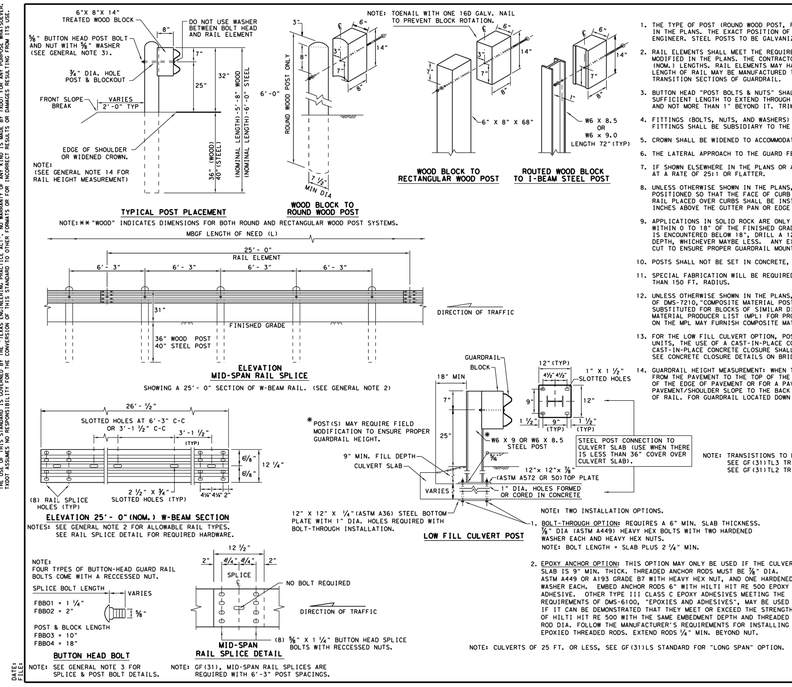
SHEET 1 OF 2

Texas Department of Transportation | Design Division Standard

METAL BEAM GUARD FENCE
THRIE-BEAM TRANSITION
TL-3 MASH COMPLIANT
GF(31)TR TL3-19

FILE: gf31tr-tl3319_dgn	DN:TxDOT	CK:KM	DW:VP	CK:CCL/AG
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REVISIONS	DIST	COUNTY		SHEET NO.

DATE:
FILE:



GENERAL NOTES

1. THE TYPE OF POST (ROUND WOOD POST, RECTANGULAR WOOD POST, OR STEEL POST) WILL BE AS SHOWN IN THE PLANS. THE EXACT POSITION OF MBGF SHALL BE SHOWN IN THE PLANS OR AS DIRECTED BY THE ENGINEER. STEEL POSTS TO BE GALVANIZED IN ACCORDANCE WITH ITEM 445, "GALVANIZING."
2. RAIL ELEMENTS SHALL MEET THE REQUIREMENTS OF ITEM 540,"METAL BEAM GUARD FENCE" EXCEPT AS MODIFIED IN THE PLANS. THE CONTRACTOR MAY FURNISH RAIL ELEMENTS OF 25'- 0", OR 12'- 6" (NOM.) LENGTHS. RAIL ELEMENTS MAY HAVE SLOTTED HOLES AT 3'-1 ½" C-C OR 6'-3" C-C. A SPECIAL LENGTH OF RAIL MAY BE MANUFACTURED TO ACCOMMODATE THE DOWNSTREAM ANCHOR TERMINAL (DAT) AND THE TRANSITION SECTIONS OF GUARDRAIL.
3. BUTTON HEAD "POST BOLTS & NUTS" SHALL MEET THE REQUIREMENTS OF (ASTM A307), AND SHALL BE OF SUFFICIENT LENGTH TO EXTEND THROUGH THE FULL THICKNESS OF THE NUT AND ⅜" WASHER (FWC16) AND NOT MORE THAN 1" BEYOND IT. TRIM REMAINING BOLT LENGTH TO MEET REQUIRED LENGTH.
4. FITTINGS (BOLTS, NUTS, AND WASHERS) SHALL BE GALVANIZED IN ACCORDANCE WITH ITEM 445,"GALVANIZING." FITTINGS SHALL BE SUBSIDIARY TO THE BID ITEM.
5. CROWN SHALL BE WIDENED TO ACCOMMODATE THE METAL BEAM GUARD FENCE.
6. THE LATERAL APPROACH TO THE GUARD FENCE, SHALL HAVE A MAXIMUM SLOPE OF 1V:10H.
7. IF SHOWN ELSEWHERE IN THE PLANS OR AS DIRECTED BY THE ENGINEER, THE GUARD FENCE MAY BE FLARED AT A RATE OF 25:1 OR FLATTER.
8. UNLESS OTHERWISE SHOWN IN THE PLANS, GUARD FENCE PLACED IN THE VICINITY OF CURBS SHALL BE POSITIONED SO THAT THE FACE OF CURB IS LOCATED DIRECTLY BELOW OR BEHIND THE FACE OF THE RAIL. RAIL PLACED OVER CURBS SHALL BE INSTALLED SO THAT THE POST BOLT IS LOCATED APPROXIMATELY 25 INCHES ABOVE THE GUTTER PAN OR EDGE OF SHOULDER.
9. APPLICATIONS IN SOLID ROCK ARE ONLY ALLOWED WITH STEEL POSTS. IF SOLID ROCK IS ENCOUNTERED WITHIN 0 TO 18" OF THE FINISHED GRADE, DRILL A 24" DIA. HOLE, 24" INTO THE ROCK. IF SOLID ROCK IS ENCOUNTERED BELOW 18", DRILL A 12" DIA. HOLE, 12" INTO THE ROCK OR TO THE STANDARD EMBEDMENT DEPTH, WHICHEVER MAYBE LESS. ANY EXCESS POST LENGTH, AFTER MEETING THESE DEPTHS, MAY BE FIELD CUT TO ENSURE PROPER GUARDRAIL MOUNTING HEIGHT. BACKFILL WITH COARSE AGGREGATE MATERIAL.
10. POSTS SHALL NOT BE SET IN CONCRETE, OF ANY DEPTH.
11. SPECIAL FABRICATION WILL BE REQUIRED AT INSTALLATION LOCATIONS HAVING A CURVATURE OF LESS THAN 150 FT. RADIUS.
12. UNLESS OTHERWISE SHOWN IN THE PLANS, A COMPOSITE MATERIAL BLOCK THAT MEETS THE REQUIREMENTS OF DMS-7210, "COMPOSITE MATERIAL POSTS AND BLOCKS FOR METAL BEAM GUARD FENCE" MAY BE SUBSTITUTED FOR BLOCKS OF SIMILAR DIMENSIONS. THE CONSTRUCTION DIVISION, TXDOT MAINTAINS A MATERIAL PRODUCER LIST (MPL) FOR PRODUCERS OF MATERIALS CONFORMING TO DMS-7210 ONLY PRODUCERS ON THE MPL MAY FURNISH COMPOSITE MATERIAL BLOCKS.
13. FOR THE LOW FILL CULVERT OPTION, POSTS LOCATED PARTIALLY OR WHOLLY BETWEEN PRECAST BOX CULVERT UNITS, THE USE OF A CAST-IN-PLACE CONCRETE CLOSURE BETWEEN BOXES IS REQUIRED. THE LENGTH OF THE CAST-IN-PLACE CONCRETE CLO



(1) Terminal Connectors and associated hardware are to be paid for under the Item "Metal Beam Guard Fence". Attach Metal Beam Guard Fence Transitions to the bridge rail and extend along the embankment unless otherwise shown in the plans.

(2) Wingwall Length minus 5'-0" (Varies)

(3) Increase 2" for structures with overlay.

(4) Bars L(#5) are part of rail reinforcing and are included in unit price bid for railing. Space with Bars U. Bars L match slab bar cover. Bars L may be bundled with top slab reinforcing if spacing is equivalent.

(5) Bars SU1(#3), SU2(#3) and WU(#5) not shown for clarity.

(6) Substitute Bars U(#5) for Bars WU(#5) when parapet end is located on achorage curb over culvert top slab. Use Bars WU(#5) in culvert parallel wings.

SHEET 2 OF 3

Texas Department of Transportation | Bridge Division Standard

TRAFFIC RAIL

TYPE T223

FILE: t1bt005-19.dgn	DN: TxDOT	CK: TxDOT	DW: JTR	CK: AES
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REVISIONS	DIST	COUNTY		SHEET NO.

(2) Wingwall Length minus 5'-0" (Varies)

(3) Increase 2" for structures with overlay.

(4) Bars L(#5) are part of rail reinforcing and are included in unit price bid for railing. Space with Bars U. Bars L match slab bar cover. Bars L may be bundled with top slab reinforcing if spacing is equivalent.

(6) Substitute Bars U(#5) for Bars WU(#5) when parapet end is located on anchorage curb over culvert top slab. Use Bars WU(#5) in culvert parallel wings.

(7) When vertical reinforcing has closer clear cover over horizontal reinforcing in abutment wingwalls on traffic side of wall, move the horizontal wingwall/retaining wall reinforcing to the inside of Bars WU where bars conflict.

(8) Top longitudinal slab bar may be adjusted laterally 3" plus or minus to tie reinforcing.

(9) At the Contractor's option, Bars V may be replaced by extending Bars U to 2'-5 ½" above the roadway surface without overlay.

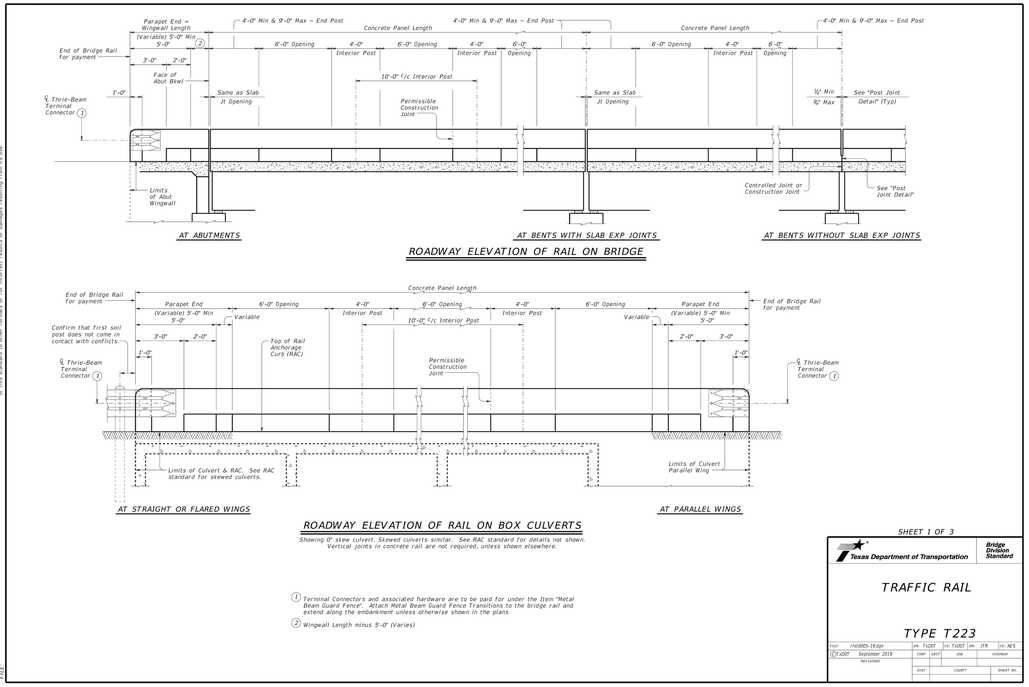
SHEET 3 OF 3

Texas Department of Transportation | Bridge Division Standard

TRAFFIC RAIL

TYPE T223

FILE: t1bt005-19.dgn	DN: TxDOT	CK: TxDOT	DW: JTR	CK: AES
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(1) Terminal Connectors and associated hardware are to be paid for under the Item "Metal Beam Guard Fence". Attach Metal Beam Guard Fence Transitions to the bridge rail and extend along the embankment unless otherwise shown in the plans.

(2) Wingwall Length minus 5'-0" (Varies)

SHEET 1 OF 3

Texas Department of Transportation | Bridge Division Standard

TRAFFIC RAIL

TYPE T223

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#	#		

TxDOT DESIGNED JLB | DRAWN JLB | CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE: HORIZ N/A | VERT N/A | DATE OCTOBER 2022

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

10/06/22 STATE OF TEXAS JENNIFER L. BECKER 102960 LICENSED PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS

TxDOT TRAFFIC RAIL DETAILS

DA PROJECT B005663.001

SHEET 12

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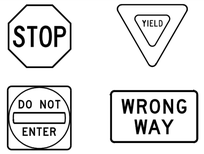
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PLOTTED BY: Rebekah Baker
PLOTTED ON: October 06, 2022
PLOTTED AT: 2:35:18 PM

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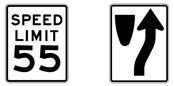
REQUIREMENTS FOR RED BACKGROUND REGULATORY SIGNS
(STOP, YIELD, DO NOT ENTER AND WRONG WAY SIGNS)



REQUIREMENTS FOR FOUR SPECIFIC SIGNS ONLY

SHEETING REQUIREMENTS		
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	RED	TYPE B OR C SHEETING

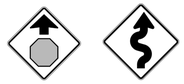
REQUIREMENTS FOR WHITE BACKGROUND REGULATORY SIGNS
(EXCLUDING STOP, YIELD, DO NOT ENTER AND WRONG WAY SIGNS)



TYPICAL EXAMPLES

SHEETING REQUIREMENTS		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	WHITE	TYPE A SHEETING
BACKGROUND	ALL OTHERS	TYPE B OR C SHEETING
LEGEND, BORDERS AND SYMBOLS	BLACK	ACRYLIC NON-REFLECTIVE FILM
LEGEND, BORDERS AND SYMBOLS	ALL OTHER	TYPE B OR C SHEETING

REQUIREMENTS FOR WARNING SIGNS



TYPICAL EXAMPLES

SHEETING REQUIREMENTS		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	FLOURESCENT YELLOW	TYPE B_{FL} OR C_{FL} SHEETING
LEGEND & BORDERS	BLACK	ACRYLIC NON-REFLECTIVE FILM
LEGEND & SYMBOLS	ALL OTHER	TYPE B OR C SHEETING

REQUIREMENTS FOR SCHOOL SIGNS



TYPICAL EXAMPLES

SHEETING REQUIREMENTS		
USAGE	COLOR	SIGN FACE MATERIAL
BACKGROUND	WHITE	TYPE A SHEETING
BACKGROUND	FLOURESCENT YELLOW GREEN	TYPE B_{FL} OR C_{FL} SHEETING
LEGEND, BORDERS AND SYMBOLS	BLACK	ACRYLIC NON-REFLECTIVE FILM
SYMBOLS	RED	TYPE B OR C SHEETING

GENERAL NOTES

1. Signs to be furnished shall be as detailed elsewhere in the plans and/or as shown on sign tabulation sheet. Standard sign designs and arrow dimensions can be found in the "Standard Highway Sign Designs for Texas" (SHSD).
2. Sign legend shall use the Federal Highway Administration (FHWA) Standard Highway Alphabets (B, C, D, E, Emod or F).
3. Lateral spacing between letters and numerals shall conform with the SHSD, and any approved changes thereto. Lateral spacing of legend shall provide a balanced appearance when spacing is not shown.
4. Black legend and borders shall be applied by screening process or cut-out acrylic non-reflective black film to background sheeting, or combination thereof.
5. White 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.
6. 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.
7. Sign substrate shall be any material that meets the Departmental Material Specification requirements of DMS-7110 or approved alternative.
8. Mounting details for roadside mounted signs are shown in the "SMD series" Standard Plan 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

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

Texas Department of Transportation — Traffic Operations Division Standard

TYPICAL SIGN REQUIREMENTS

TSR(4)-13

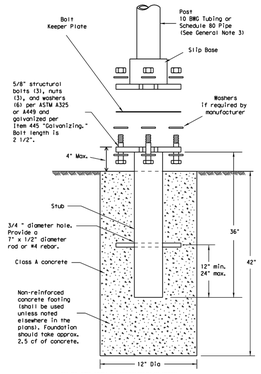
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26A

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TRIANGULAR SLIPBASE INSTALLATION GENERAL REQUIREMENTS



SM RD SGN ASSM TY XXXXX(X)SA(X-XXXX)

NOTE

There are various devices approved for the Triangular Slipbase System. Please reference the Material Producer List for approved slip base systems. http://www.txdot.gov/business/producer_list.htm The devices shall be installed per manufacturers' recommendations. Installation procedures shall be provided to the Engineer by Contractor.

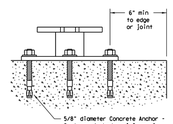
GENERAL NOTES:
1. Slip base shall be permanently marked to indicate manufacturer. Methods, design, and location of marking are subject to approval of the TxDOT Traffic Standards Engineer.
2. Material used as post with this system shall conform to the following specifications:
   10 BWG Tubing (2.875" outside diameter)
   0.134" nominal wall thickness
   Seamless or electric-resistance welded steel tubing or pipe
   Steel shall be HSLAS Gr 55 per ASTM A1011 or ASTM A1008
   Other steels may be used if they meet the followings
   55,000 PSI minimum yield strength
   70,000 PSI minimum tensile strength
   20% 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 2.867" to 2.883"
   Galvanization per ASTM A123 or ASTM A653 G210, for preformed steel tubing (ASTM A653), recoat tube outside diameter weld seam by metallizing with zinc wire per ASTM B833.
   Schedule 80 Pipe (2.875" outside diameter)
   0.276" nominal wall thickness
   Steel tubing per ASTM A500 Gr 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 followings
   46,000 PSI minimum yield strength
   62,000 PSI minimum tensile strength
   21% minimum elongation in 2"
   Wall thickness (uncoated) shall be within the range of 0.248" to 0.304"
   Outside diameter (uncoated) shall be within the range of 2.855" to 2.895"
   Galvanization per ASTM A123
3. 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/publications/traffic.htm
4. Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.

ASSEMBLY PROCEDURE

Foundation
1. Prepare 12-inch diameter by 42-inch deep hole. If solid rock is encountered, the depth of the foundation may be reduced such that it is embedded a minimum of 18 inches into the solid rock.
2. The Engineer may permit batches of concrete less than 2 cubic yards to be mixed with a portable, motor-driven 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 A.
3. Push the pipe end of the slip base stub into the center of the concrete. Rotate the stub back and forth while pushing it down into the concrete to assure 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.
4. Plumb the stub. Allow a minimum of 4 days to set, unless otherwise directed by the Engineer.
5. The triangular slipbase system is multidirectional and is designed to release when struck from any direction.

Support
1. Cut support so that the bottom of the sign will be 3 to 7.5 feet above the edge of the traveltway (i.e., edge of the closest lane) when slip plate is below the edge of pavement or 7 to 7.5 feet above slip plate when the slip plate is above the edge of the traveltway. The cut shall be plumb and straight.
2. Attach sign to support using connections shown. When multiple signs are installed on the same support, ensure the minimum clearance between each sign is maintained. See SMD(SLIP-2) for clearances based on sign types.

CONCRETE ANCHOR



SM RD SGN ASSM TY XXXXX(X)SB(X-XXXX)

Concrete anchor consists of 5/8" diameter stud bolt with UNC series bolt threads on the upper end. Heavy hex nut per ASTM A563, and hardened washer per ASTM F436. The stud 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-6100, "Epoxies and Adhesives." Adhesive anchors may be loaded after adequate epoxy cure time per the manufacturer's recommendations. Top of bolt shall extend at least flush with top of the nut when installed. The anchor, when installed in 4000 psi normal-weight concrete with a 5 1/2" minimum embedment, shall have a allowable tension and shear of 3900 and 3100 pst, respectively.

Texas Department of Transportation — Traffic Operations Division

SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS TRIANGULAR SLIPBASE SYSTEM

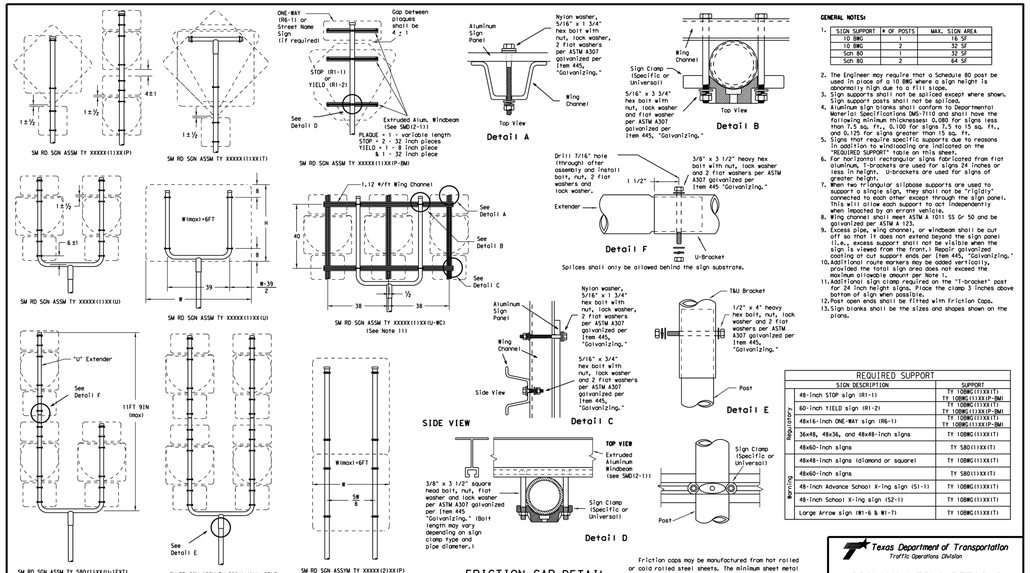
SMD(SLIP-1)-08

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9-08 REVISIONS	CONT	SECT	JOB	HIGHWAY
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GENERAL NOTES:

SIGN SUPPORT	# OF POSTS	MAX. SIGN AREA
10 BWG	1	16 SF
10 BWG	2	32 SF
Sch 80	1	32 SF
Sch 80	2	64 SF

1. Sign supports shall not be spliced except where shown.
2. The Engineer may require that a Schedule 80 post be used in place of a 10 BWG where a sign height is abnormally high due to a fill slope.
3. Sign supports shall not be placed in Departmental Material Specifications DMS-7110 and shall have the following minimum thicknesses: 0.080 for signs less than 7.5 sq. ft., 0.100 for signs 7.5 to 15 sq. ft., and 0.125 for signs greater than 15 sq. ft.
4. Signs that require specific supports due to reasons in addition to windloading are indicated on the "REQUIRED SUPPORT" table on this sheet.
5. For horizontal rectangular signs fabricated from flat aluminum, T-brackets are used for signs 24 inches or less in height. U-brackets are used for signs of greater height.
6. Where rectangular slipbase supports are used to support a single sign, they shall not be "rigidly" connected to each other except through the sign panel. This will allow each support to act independently when impacted by an errant vehicle.
7. Wing channel shall meet ASTM A 1011 SS Gr 50 and be galvanized per ASTM A 123.
8. Excess pipe, wing channel, or windbeam shall be cut off so that it does not extend beyond the sign panel (i.e., excess support shall not be visible when the sign is viewed from the front.) Repair galvanized coating at cut support ends per Item 445, "Galvanizing."
9. Additional route markers may be added vertically, but the height of the sign shall not exceed the maximum allowable design per Note 1.
10. Additional sign clamp required on the "T-bracket" post for 24 inch height signs. Place the clamp 3 inches above bottom of sign when possible.
11. Post open ends shall be fitted with friction Caps.
12. Sign blanks shall be the sizes and shapes shown on the plans.

REQUIRED SUPPORT		
	SIGN DESCRIPTION	SUPPORT
Regulatory	48-inch STOP sign (R1-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	60-inch YIELD sign (R1-2)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	48x16-inch ONE-WAY sign (R6-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	36x48, 48x36, and 48x48-inch signs	TY 10BWG(1)XX(T)
	48x60-inch signs	TY SB(11)XX(T)
	48x48-inch signs (diamond or square)	TY 10BWG(1)XX(T)
	48x60-inch signs	TY SB(11)XX(T)
Warning	48-inch Advance School X-ing sign (S1-1)	TY 10BWG(1)XX(T)
	48-inch School X-ing sign (S2-1)	TY 10BWG(1)XX(T)
	Large Arrow sign (W1-6 & W1-7)	TY 10BWG(1)XX(T)

Friction caps may be manufactured from hot rolled or cold rolled steel sheets. The minimum sheet metal thickness shall be 24 gauge for all cap sizes.

The rim edges shall be reasonably straight and smooth. Caps shall be sized and formed in such a manner as to produce a drive-on friction fit and have no tendency to rock when seated on the pipe. The depth shall be sufficient to give positive protection against entrance of rainwater. They shall be free of sharp crevices or indentations and show no evidence of metal fracture.

Caps shall have an electrodeposited coating of zinc in accordance with the requirements of ASTM B633 Class FE/ZN 8.

Texas Department of Transportation — Traffic Operations Division

SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS TRIANGULAR SLIPBASE SYSTEM

SMD(SLIP-2)-08

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26C

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DATE:
FILE:

SIGN SUPPORT DESCRIPTIVE CODES
(Descriptive Codes correspond to project estimate and quantities sheets)

SM RD SGN ASSM TY XXXXX(X)XX(X-XXXX)

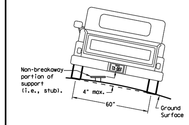
Post Type
FRP = Fiberglass Reinforced Plastic Pipe (see SMD(FRP))
TWT = Thin-Walled Tubing (see SMD(TWT))
10BWG = 10 BWG Tubing (see SMD(SLIP-1) to (SLIP-3))
S80 = Schedule 80 Pipe (see SMD(SLIP-1) to (SLIP-3))

Number of Posts (1 or 2)

Anchor Type
UA = Universal Anchor - Concreted (see SMD(FRP) and (TWT))
UB = Universal Anchor - Bolted down (see SMD(FRP) and (TWT))
WS = Wedge Anchor Steel - (see SMD(TWT))
WP = Wedge Anchor Plastic (see SMD(TWT))
SA = Slipbase - Concreted (see SMD(SLIP-1) to (SLIP-3))
SB = Slipbase - Bolted Down (see SMD(SLIP-1) to (SLIP-3))

Sign Mounting Designation
P = Prefab. "Plain" (see SMD(SLIP-1) to (SLIP-3), (TWT), (FRP))
T = Prefab. "T" (see SMD(SLIP-1) to (SLIP-3), (TWT))
U = Prefab. "U" (see SMD(SLIP-1) to (SLIP-3))
IF REQUIRED
(EXT or ZEXT = Number of Extensions (see SMD(SLIP-1) to (SLIP-3), (TWT)))
BW = Extruded Wind Beam (see SMD(SLIP-1) to (SLIP-3))
WC = 1.12 W/ft Wing Channel (see SMD(SLIP-1) to (SLIP-3))
EXAL = Extruded Aluminum Sign Panels (see SMD(SLIP-3))

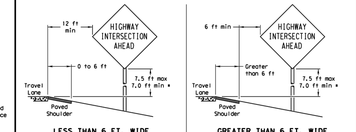
REQUIRED CLEARANCE FOR BREAKAWAY SUPPORT



To avoid vehicle undercarriage snagging, any substantial remains of a breakaway support, when it is broken away, should not project more than 4 inches above a 60-inch chord (i.e., typical space between wheel paths).

SIGN LOCATION

PAVED SHOULDERS



LESS THAN 6 FT. WIDE

When the shoulder is 6 ft. or less in width, the sign must be placed at least 12 ft. from the edge of the travel lane.

GREATER THAN 6 FT. WIDE

When the shoulder is greater than 6 ft in width, the sign must be placed at least 6 ft. from the edge of the shoulder.

BEHIND BARRIER

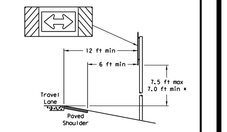


BEHIND GUARDRAIL

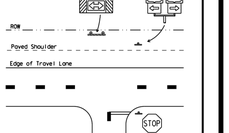
BEHIND CONCRETE BARRIER

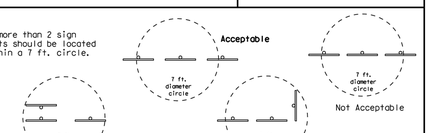
**Sign clearance based on distance required for proper guard rail or concrete barrier performance.

T-INTERSECTION

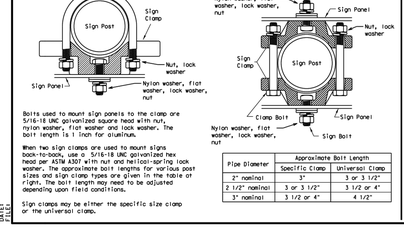


When this sign is needed at the end of a two-lane, two way roadway, the right edge of the sign should be in line with the centerline of the roadway. Place as close to ROW as practical.





TYPICAL SIGN ATTACHMENT DETAIL



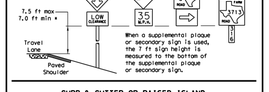
Bolts used to mount sign panels to the clamp are 5/16-18 UNC galvanized square head with nut, nylon washer, flat washer and lock washer. The bolt length is 1 inch for aluminum.

When two sign clamps are used to mount signs back-to-back, use a 5/16-18 UNC galvanized hex head per ASTM A307 with nut and helical-spring lock washer. The approximate bolt lengths for various post sizes and sign clamp types are given in the table at right. The bolt length may need to be adjusted depending upon field conditions.

Sign clamps may be either the specific size clamp or the universal clamp.

Pipe Diameter	Approximate Bolt Length	
	Specific Clamp	Universal Clamp
2" nominal	3 1/2"	3 or 3 1/2"
2 1/2" nominal	3 or 3 1/2"	3 1/2 or 4"
3" nominal	3 1/2 or 4"	4 1/2"

SIGNS WITH PLAQUES

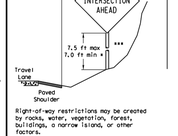


When a supplemental plaque or secondary sign is used, the 7 ft sign height is measured to the bottom of the supplemental plaque or secondary sign.

CURB & GUTTER OR RAISED ISLAND



RESTRICTED RIGHT-OF-WAY
(When 6 ft min. is not possible.)



Right-of-way restrictions may be created by rocks, water, vegetation, forest, buildings, a narrow island, or other factors.

In situations where a lateral restriction prevents the minimum horizontal clearance from the edge of the travel lane, signs should be placed as far from the travel lane as practical.

*** Post may be shorter if protected by guardrail or if Engineer determines the post could not be hit due to extreme slope.

* Signs shall be mounted using the following condition that results in the greatest sign elevation:
(1) a minimum of 7 to a maximum of 7.5 feet above the edge of the travel lane or
(2) a minimum of 7 to a maximum of 7.5 feet above the grade at the base of the support when sign is installed on the backslope.
The maximum values may be increased when directed by the Engineer.
See the Traffic Operations Division website for detailed drawings of sign clamps, Triangular Slipbase System components and Wedge Anchor System components.
The website address is: http://www.txdot.gov/publications/traffic.htm

Texas Department of Transportation — Traffic Operations Division

SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS GENERAL NOTES & DETAILS

SMD(GEN)-08

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9-08 REVISIONS	CONT	SECT	JOB	HIGHWAY
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26A

NO.	REVISION	BY	DATE

TxDOT
DESIGNED: JLB
DRAWN: JLB
CHECKED:

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ: N/A
VERT: N/A
DATE: OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS

TxDOT SIGNAGE DETAILS

DA PROJECT
B005663.001

SHEET
13

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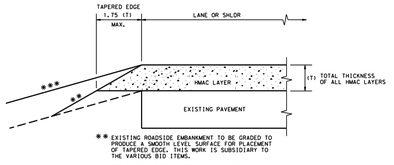
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PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 2:35:13 PM

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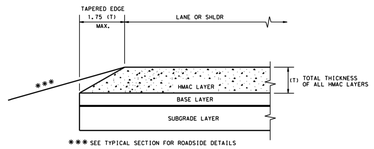
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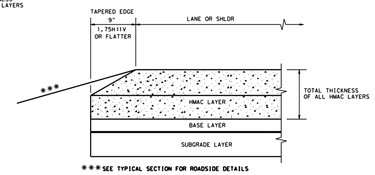
CONDITION - 1
THIN HMAC SURFACES OR HMAC OVERLAY
WITH THICKNESS OF 2.5" OR LESS



CONDITION - 2
OVERLAY OF EXISTING PAVEMENT
HMAC THICKNESS 2.5" TO 5"



CONDITION - 3
NEW OR RECONSTRUCTED PAVEMENT
HMAC THICKNESS 2.5" TO 5"



CONDITION - 4
NEW OR RECONSTRUCTED PAVEMENT
HMAC THICKNESS 5" OR GREATER

(NOT TO SCALE)

GENERAL NOTES

1. UNLESS OTHERWISE SHOWN IN THE PLANS, A VERTICAL EDGE IS PERMISSIBLE FOR HMAC PLACED GREATER THAN 5" BELOW THE EDGE OF PAVEMENT AND FOR THICKNESS OF HMAC LESS THAN 2.5".
2. FOR FURTHER INFORMATION REGARDING THE ROADSIDE AND PAVEMENT DETAILS, SEE TYPICAL SECTIONS.
3. PAYMENT FOR TAPERED EDGE WILL BE IN ACCORDANCE WITH APPLICABLE ITEMS IN THE CONTRACT.
4. THE SLOPE OF THE TAPERED EDGE SHALL BE 1.75H:1V OR FLATTER.
5. THE TAPERED EDGE SHALL BE PRODUCED BY USE OF A SCREED ATTACHMENT CAPABLE OF PRODUCING A SMOOTH COMPACTED SURFACE. ADDITIONAL COMPACTING EFFORT BEHIND THE SCREED IS NOT REQUIRED.

Texas Department of Transportation | Design Division Standard

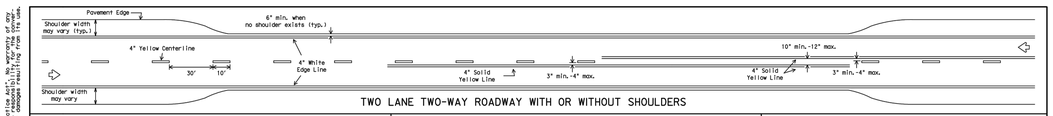
TAPERED EDGE DETAILS
HMAC PAVEMENT

TE(HMAC)-11

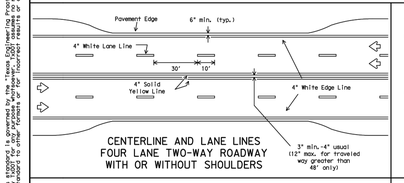
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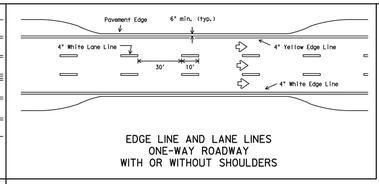
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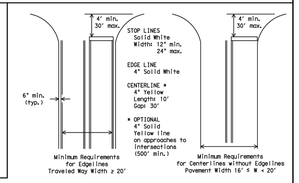
TWO LANE TWO-WAY ROADWAY WITH OR WITHOUT SHOULDERS



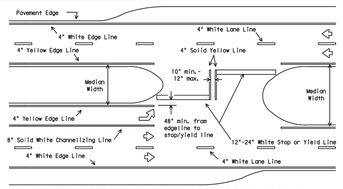
CENTERLINE AND LANE LINES
FOUR LANE TWO-WAY ROADWAY
WITH OR WITHOUT SHOULDERS



EDGE LINE AND LANE LINES
ONE-WAY ROADWAY
WITH OR WITHOUT SHOULDERS

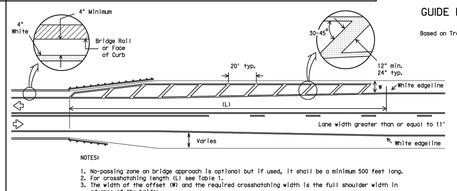


GUIDE FOR PLACEMENT OF STOP LINES,
EDGE LINE & CENTERLINE
Based on Traveled Way and Pavement Widths for Undivided Highways



All medians shall be field measured to determine the location of necessary striping. Stop/Yield bars and centerlines shall be placed when the median width is greater than 30 ft. The median width is defined as the area between two roadways of a divided highway measured from edge of traveled way to edge of traveled way. The median width might be different between intersections, interchanges and of opposite approaches of the same intersection. The narrow median width will be the controlling dimension if markings are required.

FOUR LANE DIVIDED ROADWAY INTERSECTIONS



NOTES:
1. No-passing zone on bridge approach is optional but if used, it shall be a minimum 500 feet long.
2. For crosshatching length (L) see Table 1.
3. The width of the offset (W) and the required crosshatching width is the full shoulder width in advance of the bridge.
4. The crosshatching is not required if delineators or barrier reflectors are used along the structure.
5. For guard fence details, refer elsewhere in the plans.

ROADWAYS WITH REDUCED SHOULDER
WIDTHS ACROSS BRIDGE OR CULVERT

TABLE 1 - TYPICAL LENGTH (L)

Posted Speed S	Formula
≤ 40	$L = \frac{WS^2}{60}$
≥ 45	L=WS

※ 85th Percentile Speed may be used on roads where traffic speeds control by default the posted speed limit. Crosshatching length should be rounded up to nearest 5 foot increment.

(Length of Crosshatching (FT.) W=Width of Offset (FT.) S=Posted Speed (MPH))

EXAMPLES:

An 8 foot shoulder in advance of a bridge reduces to 4 feet on a 70 MPH roadway. The length of the crosshatching should be:
L = 8 x 70 = 560 ft.

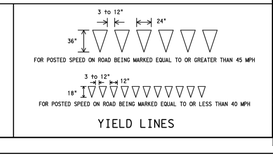
A 4 foot shoulder in advance of a bridge reduces to 2 feet on a 40 MPH roadway. The length of the crosshatching should be:
$L = 4(40)^2 / 60 = 106.67$ ft, rounded to 110 ft.

GENERAL NOTES

1. Edgeline striping shall be as shown in the plans or as directed by the Engineer. The edgeline should typically be placed a minimum of 6 inches from the edge of pavement. This distance may vary due to pavement raveling or other conditions. Edgelines are not required in curb and gutter sections of roadways.
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.

MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
TRAFFIC PAINT	DMS-8200
HOT APPLIED THERMOPLASTIC	DMS-8220
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240

All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.



YIELD LINES

Texas Department of Transportation | Traffic Operations Division

TYPICAL STANDARD
PAVEMENT MARKINGS

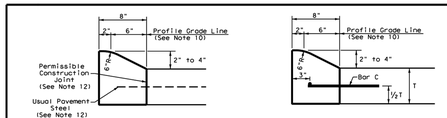
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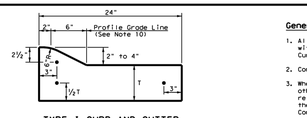
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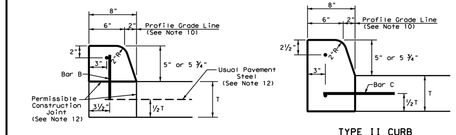


TYPE I CURB (MONOLITHIC)
2" - 4" HEIGHT

TYPE I CURB
2" - 4" HEIGHT

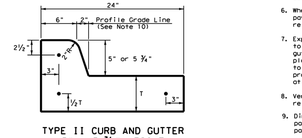


TYPE I CURB AND GUTTER
2" - 4" HEIGHT

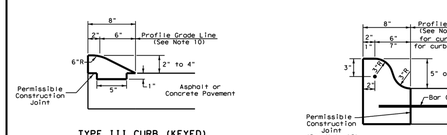


TYPE II CURB (MONOLITHIC)
5" - 5 ¾" HEIGHT

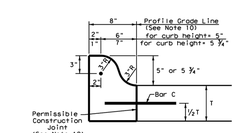
TYPE II CURB
5" - 5 ¾" HEIGHT



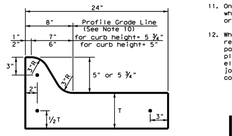
TYPE II CURB AND GUTTER
5" - 5 ¾" HEIGHT



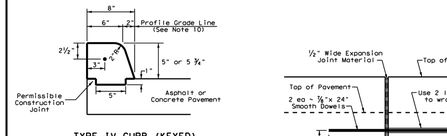
TYPE III CURB (KEYED)
2" - 4" HEIGHT



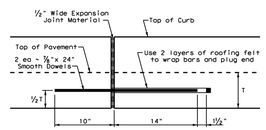
TYPE IIa CURB
5" - 5 ¾" HEIGHT



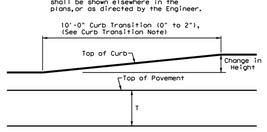
TYPE IIa CURB AND GUTTER
5" - 5 ¾" HEIGHT



TYPE IV CURB (KEYED)
5" - 5 ¾" HEIGHT

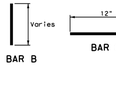


EXPANSION JOINT DETAIL



CURB TRANSITION
Notes: To be paid for as Highest Curb

Curb Transition Notes:
Field conditions may require a longer or shorter transition, and shall be shown elsewhere in the plans, or as directed by the Engineer.



General Notes

1. All materials and construction shall be in accordance with Item 529, "Concrete Curb, Gutter, and Combined Curb and Gutter."
2. Concrete shall be Class A.
3. When reinforcing bars are used, they shall be No.4 unless otherwise shown. The use of synthetic fiber in lieu of steel reinforcing is acceptable, provided the fiber producer is on the Department Producer List (MPL), maintained by TxDOT, Construction Division.
4. Round exposed sharp edges with a rounding tool, to a minimum radius of ½inch.
5. All existing curbs and driveways to be removed shall be sawed or removed at existing joints.
6. Where concrete curb is placed on existing concrete pavement, the pavement shall be drilled and the reinforcing bars grouted in place.
7. Expansion and contraction joints shall be constructed to match pavement joints in all curbs and curb and gutter adjacent to jointed concrete pavement. Where placement of curb or curb and gutter is not adjacent to concrete pavement, expansion joints shall be provided at structures, curb returns at streets, and at locations directed by the Engineer.
8. Vertical and horizontal dowel bars and transverse reinforcing bars shall be placed at four feet C-C.
9. Dimension 'T' shown is the thickness of concrete pavement. When curb is installed adjacent to flexible pavement dimension 'T' is 8" maximum.
10. Usual profile grade line. Refer to typical sections and plan-profile sheets for exact locations.
11. One-half inch expansion joint material shall be provided where curb or curb and gutter is adjacent to sidewalk or riprap.
12. When vertical permissible construction joints are used, resulting in a longitudinal construction joint in the pavement, the longitudinal pavement steel shall be placed in accordance with pavement details shown elsewhere in the plans for longitudinal construction joints. Reinforcing steel for curb section shall then conform to that required for concrete curb.

Texas Department of Transportation | Design Division Standard

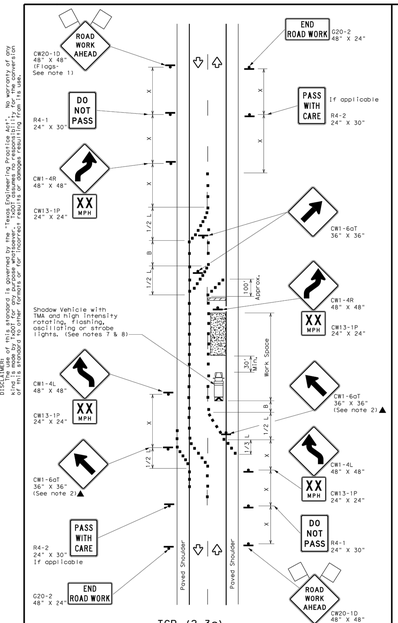
CONCRETE CURB AND
CURB AND GUTTER

CCCG-12

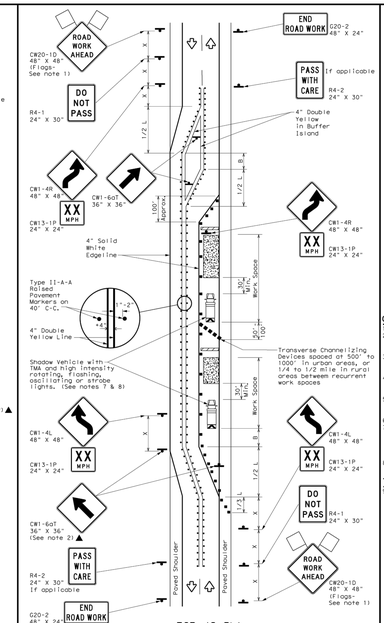
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REVISIONS					
UPDATED 2012 - VP		DIST	COUNTY		SHEET NO.

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DATE:
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TCP (2-3a)
2-LANE ROADWAY WITH PAVED SHOULDERS
ONE LANE CLOSED
ADEQUATE FIELD OF VIEW



TCP (2-3b)
2-LANE ROADWAY WITH PAVED SHOULDERS
ONE LANE CLOSED
INADEQUATE FIELD OF VIEW

LEGEND

	Type 3 Barricade	■ ■	Channelizing Devices
	Heavy Work Vehicle		Truck Mounted Attenuator (TMA)
	Trailer Mounted Flashing Arrow Board		Raised Pavement Markers Ty II-A-A
	Sign		Traffic Flow
	Flag		Flagger

Posted Speed S	Formula	Minimum Desirable Taper Lengths			Suggested Maximum Spacing of Channelizing Devices		Minimum Sign Spacing "X" Distance	Suggested Longitudinal Buffer Space "B"
		10' Offset	11' Offset	12' Offset	On a Taper	On a Tangent		
30	$L = \frac{WS^2}{60}$	150'	165'	180'	30'	60'	120'	90'
35		205'	225'	245'	35'	70'	160'	120'
40		265'	295'	320'	40'	80'	240'	155'
45	L=WS	450'	495'	540'	45'	90'	320'	195'
50		500'	550'	600'	50'	100'	400'	240'
55		550'	605'	660'	55'	110'	500'	295'
60		600'	660'	720'	60'	120'	600'	350'
65		650'	715'	780'	65'	130'	700'	410'
70		700'	770'	840'	70'	140'	800'	475'
75		750'	825'	900'	75'	150'	900'	540'

※ Conventional Roads Only

W=W Taper lengths have been rounded off.
L=Length of Taper (FT) W=Width of Offset (FT) S=Posted Speed (MPH)

TYPICAL USAGE				
MOBILE	SHORT DURATION	SHORT TERM STATIONARY	INTERMEDIATE TERM STATIONARY	LONG TERM STATIONARY
				TCP(2-3a)ONLY
		✓	✓	✓

GENERAL NOTES

1. Flags attached to signs where shown, are REQUIRED.
2. All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
3. When work space will be in place less than three days existing pavement markings may remain in place. Channelizing devices shall be used to separate traffic.
4. Flagger control should NOT be used unless roadway conditions or heavy traffic volume require additional emphasis to safely control traffic. Flagger should be positioned at end of traffic queue.
5. The R4-1 "DO NOT PASS," R4-2 " PASS WITH CARE" and construction regulatory speed zone signs may be installed within CW20-1D "ROAD WORK AHEAD" signs. Proper spacing of signs shall be maintained.
6. Conflicting pavement marking shall be removed for long term projects.
7. A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted.
8. Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect a wider work space.

TCP (2-3a)

9. Conflicting pavement markings shall be removed for long-term projects. For shorter durations where traffic is directed over a yellow centerline, channelizing devices which separate two-way traffic should be spaced on tapers at 20' or 15' if posted speeds are 35 mph or slower, and for tangent sections, at 1/2(S) where S is the speed in mph. This tighter device spacing is intended for the area of the conflicting markings, not the entire work zone.

Texas Department of Transportation | Traffic Operations Division Standard

TRAFFIC CONTROL PLAN
TRAFFIC SHIFTS ON
TWO-LANE ROADS

TCP(2-3)-18

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©TxDOT	December 1985	CONT	SECT	JOB	HIGHWAY
REVISIONS					
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1-97 2-12		DIST	COUNTY		SHEET NO.
4-98 2-18					
1-00					

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PLOTTED ON: Wednesday, October 05, 2022
PLOTTED AT: 2:35:37 PM

NO.	REVISION	BY	DATE

TxDOT
DESIGNED: JLB
DRAWN: JLB
CHECKED:

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ: N/A
VERT: N/A
DATE: OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS

TxDOT MISC DETAILS

DA PROJECT
B005663.001

SHEET
14

Texas 811 — Know what's below. Call before you dig.

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:

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).

STATE PLANE COORDINATE NOTE:

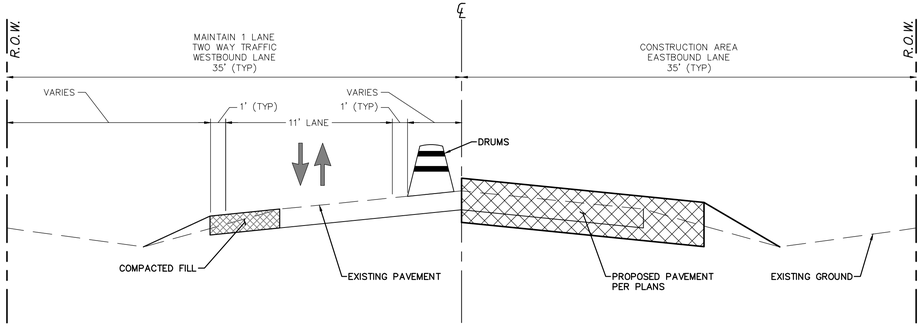
COORDINATES PROVIDED ARE RELATIVE TO THE TEXAS STATE PLANE COORDINATE SYSTEM (NAD83), CENTRAL ZONE 4203; ALL COORDINATES, BEARINGS, AND DISTANCES ARE NAD83 GRID VALUES.

OFF-SITE BENCHMARK:

BRASS DISK SET IN CONCRETE STAMPED "T 1189 1967", LOCATED 38 FEET NORTH OF THE CENTERLINE OF WEST COUNTY ROAD 180 AND 150 FEET WEST OF THE CENTERLINE OF STATE HWY 349.
NAD83 GRID COORDINATES N: 10,648,880.14' E:1,765,914.09'
PUBLISHED ELEVATION: 2765.53' NAVD88 DATUM

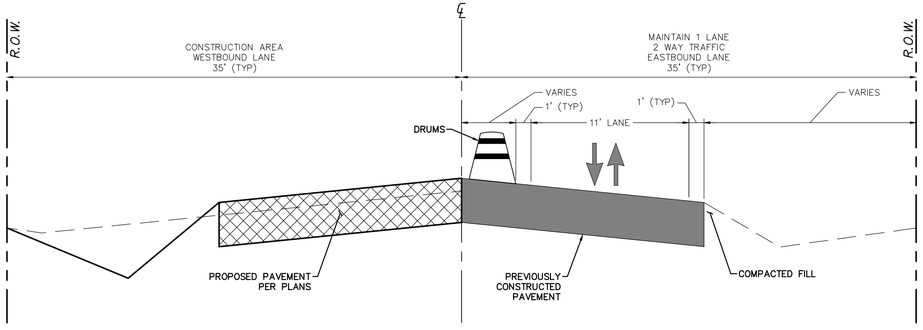
BENCHMARK NOTE:

SEE GENERAL NOTES (SHEET 1) FOR DETAILS.



TCP PHASE 1

NOT TO SCALE



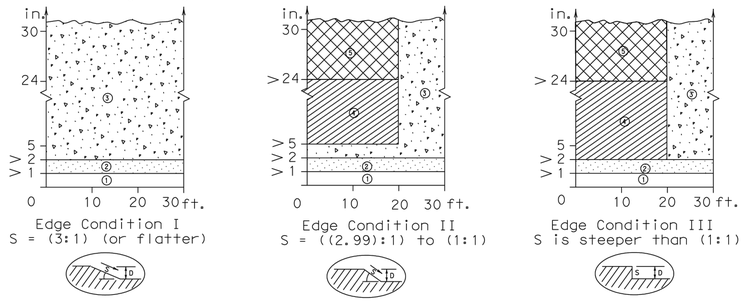
TCP PHASE 2

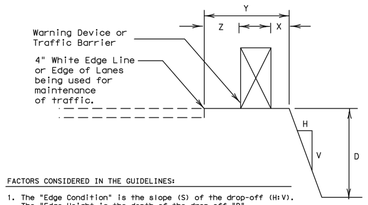
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DEFINITION OF TREATMENT ZONES FOR VARIOUS EDGE CONDITIONS

Edge Height (D) in Inches versus Lateral Clearance (Y) in Feet





FACTORS CONSIDERED IN THE GUIDELINES:

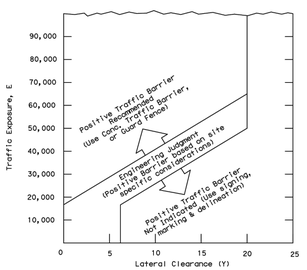
1. The "Edge Condition" is the slope (S) of the drop-off (H:V). The "Edge Height" is the depth of the drop-off "D".
2. Distance "X" is to be the maximum practical under job conditions. Two feet minimum for high speed conditions. Distance "Y" is the lateral clearance from edge of travel lane to edge of dropoff. Distance "Z" does not have a minimum.
3. 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.
4. The conditions for indicating the use of positive or protective barriers are given by Zone-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.
5. 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 CW20-8 sign), or 2) provide an edge slope such as Edge Condition I.

Zone	Treatment Types Guidelines:
1	No treatment.
2	CW 8-11 "Uneven Lanes" signs.
3	CW 8-9a "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 1.
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.

Edge Condition Notes:

1. Edge Condition I: Most vehicles are able to traverse an edge condition with a slope rate of (3 to 1) or flatter. The slope must be constructed with a compacted material capable of supporting vehicles.
2. Edge Condition II: Most vehicles are able to traverse an edge condition with a slope between (2.99 to 1) and (1to 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.
3. 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.
4. 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.

FIGURE-1: CONDITIONS INDICATING USE OF POSITIVE BARRIER FOR ZONE 5 (▨)



1 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.

2 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.

3 An approved end treatment should be provided for any positive barrier end 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 exists 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 manuals.

Engineer's Seal

STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

Date: MM/DD/YY

Texas Department of Transportation
Traffic Operations Division

WORKSHEET FOR EDGE CONDITION TREATMENT TYPES

© TxDOT August 2000	DW: TXDOT	CK: TXDOT	DW: TXDOT	CK: TXDOT
REVISIONS	CONT	SECT	JOB	HIGHWAY
03-01				
08-01 correct typos	DIST	COUNTY		SHEET NO.

SUGGESTED SEQUENCE OF WORK

TCP PHASE 1
TRAFFIC:

1. REMOVE EXISTING TRAFFIC CONTROL AND LANE MARKINGS AS REQUIRED.
2. INSTALL ONE LANE, TWO-WAY TRAFFIC CONTROL. SHIFT TRAFFIC LANES TO WESTBOUND SIDE TO ALLOW FOR CONSTRUCTION OPERATIONS ON EASTBOUND SIDE.
3. MAINTAIN REMAINING EXISTING TRAFFIC CONTROL.

CONSTRUCTION:

1. INSTALL TEMPORARY HMAC PAVEMENT AS REQUIRED.
2. REMOVE EXISTING HMAC PAVEMENT AND OTHER OBSTRUCTIONS AS REQUIRED ON EASTBOUND SIDE.
3. BEGIN CONSTRUCTION OF PROPOSED PAVEMENT ON EASTBOUND SIDE.
4. INSTALL TEMPORARY SIGNS AND PAVEMENT MARKINGS.

TCP PHASE 2
TRAFFIC:

1. REMOVE EXISTING TRAFFIC CONTROL AND LANE MARKINGS AS REQUIRED.
2. INSTALL ONE LANE, TWO-WAY TRAFFIC CONTROL. SHIFT TRAFFIC LANES TO EASTBOUND SIDE TO ALLOW FOR CONSTRUCTION OPERATIONS ON WESTBOUND SIDE.
3. MAINTAIN REMAINING EXISTING TRAFFIC CONTROL.

CONSTRUCTION:

1. INSTALL TEMPORARY HMAC PAVEMENT AS REQUIRED.
2. REMOVE EXISTING HMAC PAVEMENT AND OTHER OBSTRUCTIONS AS REQUIRED ON WESTBOUND SIDE.
3. BEGIN CONSTRUCTION OF PROPOSED PAVEMENT ON WESTBOUND SIDE.
4. INSTALL PROPOSED SIGNS AND PAVEMENT MARKINGS.
5. COMPLETE CLEAN UP.

LEGEND

- PROPOSED PAVEMENT CURRENT PHASE
- COMPACTED FILL
- PREVIOUSLY CONSTRUCTED PAVEMENT

NO.	REVISION	BY	DATE

DESIGNED: MMC
DRAWN: RLB
CHECKED: JLB

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE: HORIZ N/A; VERT N/A
DATE: OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS

TRAFFIC CONTROL PLAN
SEQUENCE OF WORK

DA PROJECT B005663.001
SHEET 15

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PLOTTED BY: Alison Adcock
PLOTTED ON: Wednesday, October 26, 2022
PLOTTED AT: 2:32:25 PM

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WARNING TO CONTRACTOR:

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UTILITY RELOCATION NOTE:

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STATE PLANE COORDINATE NOTE:

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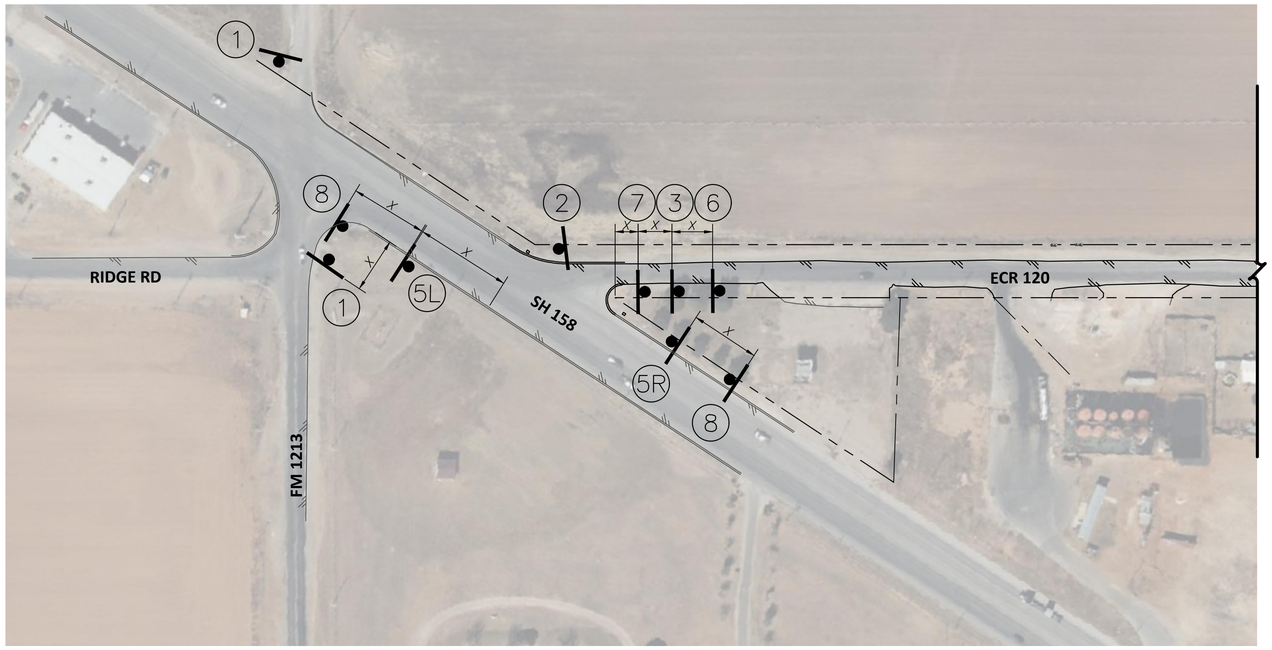
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NAD83 GRID COORDINATES N: 10,648,880.14' E:1,765,914.09'
PUBLISHED ELEVATION: 2765.53' NAVD88 DATUM

BENCHMARK NOTE:

SEE GENERAL NOTES (SHEET 1) FOR DETAILS.

EAST COUNTY ROAD 120



1 — ROAD WORK AHEAD — CW20-1D, 36" X 36"

2 — END ROAD WORK — G20-2, 48" X 24"

3 — SPEED LIMIT 30 — R2-1, 24" X 30"

4 — ROAD WORK ← NEXT 1 MILES / NEXT 1 MILES → — G20-1aT, 72" X 36"

5L — ROAD WORK ← NEXT 1 MILES — G20-1bTL, 72" X 24"

5R — ROAD WORK NEXT 1 MILES → — G20-1bTR, 72" X 24"

6 — BEGIN ROAD WORK NEXT 2 MILES — G20-5T, 48" X 24"
NAME / ADDRESS / CITY / STATE / CONTRACTOR — G20-6, 48" X 30"

7 — BEGIN WORK ZONE — G20-9TP, 36" X 30"
TRAFFIC FINES DOUBLE — R20-5T, 36" X 36"
WHEN WORKERS ARE PRESENT — R20-5aTP, 36" X 18"

8 — OBSERVE WARNING SIGNS STATE LAW — R20-3T, 48" X 42"

GRAPHIC SCALE IN FEET
100 0 50 100 200

GENERAL TRAFFIC CONTROL NOTES:

1. THE ADVANCE WARNING SIGNS SHALL BE LOCATED IN ADVANCE OF THE PHASING TRAFFIC CONTROL SEQUENCING FOR THE ABOVE LOCATIONS.
2. THE ADVANCE WARNING SIGNS SHALL REMAIN IN PLACE FOR THE DURATION OF THE CONTRACT OR AS DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 10' CLEAR ZONE (MEASURED FROM THE EDGE OF THE ADJACENT TRAFFIC LANE) DURING NON-WORK HOURS.
4. "X" REFER TO BC(2)-14 FOR SPACING.
5. WORK ALONG ROADWAY SHALL BE DURING DAYLIGHT HOURS ACCORDING TO TXDOT STANDARDS TCP(2-3)-18. BOTH LANES OF TRAFFIC WILL REMAIN OPEN DURING CONSTRUCTION.

NO.	REVISION	BY	DATE

MMC — DESIGNED
RLB — DRAWN
JLB — CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1" = 100'
VERT N/A
DATE OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

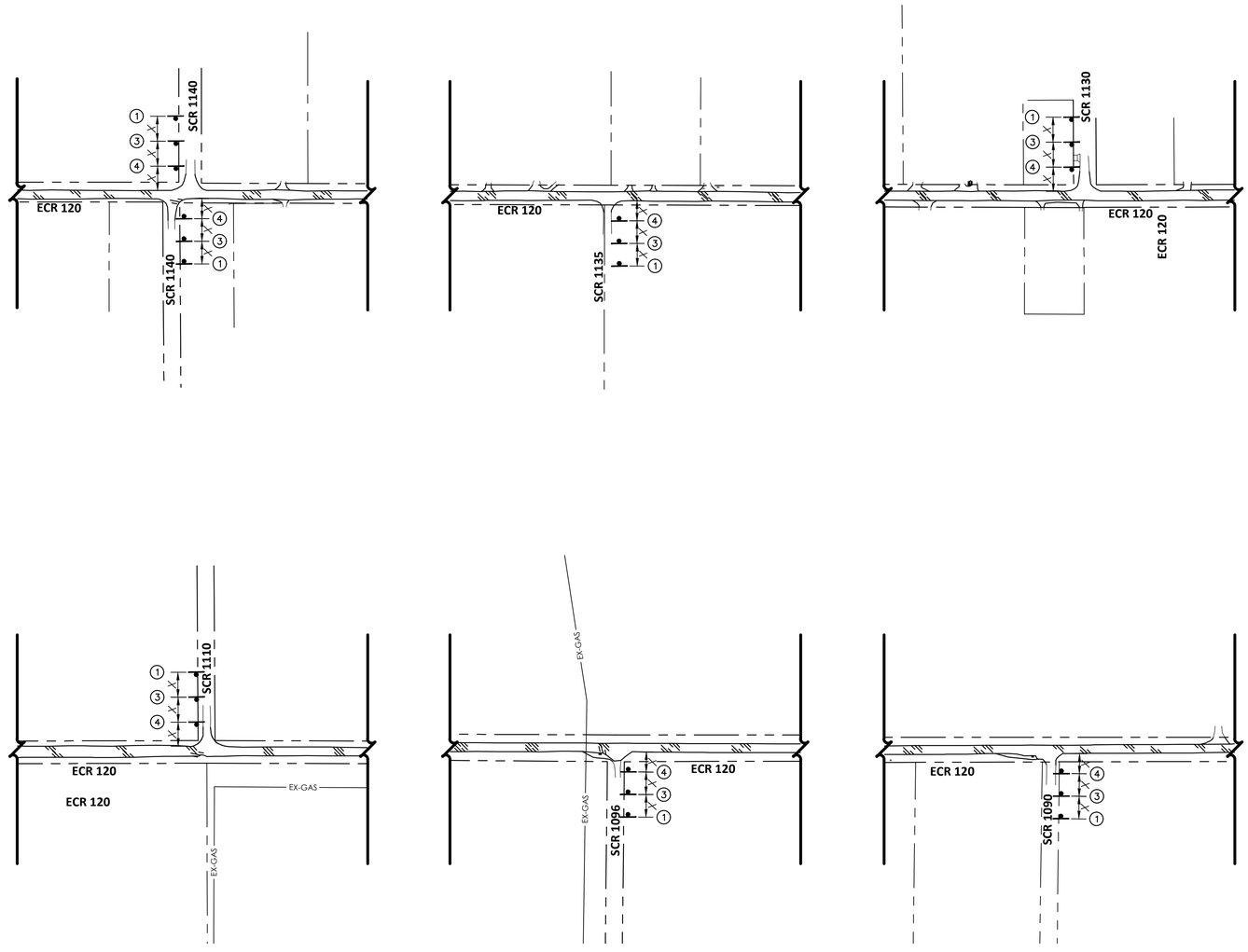
MIDLAND COUNTY PRECINCT 2
DA PROJECT B005663.001
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
SHEET 16
TRAFFIC CONTROL PLAN
ADVANCED WARNING SIGNS 1 OF 3

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PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 4:03:19 PM

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Call before you dig.

WARNING TO CONTRACTOR:	CRITICAL:	UTILITY RELOCATION NOTE:	STATE PLANE COORDINATE NOTE:	OFF-SITE BENCHMARK:	BENCHMARK NOTE:
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EAST COUNTY ROAD 120



1 — ROAD WORK AHEAD — CW20-1D, 36" X 36"

2 — END ROAD WORK — G20-2, 48" X 24"

3 — SPEED LIMIT 30 — R2-1, 24" X 30"

4 — ROAD WORK ← NEXT 1 MILES / NEXT 1 MILES → — G20-1aT, 72" X 36"

5L — ROAD WORK ← NEXT 1 MILES — G20-1bTL, 72" X 24"

5R — ROAD WORK NEXT 1 MILES → — G20-1bTR, 72" X 24"

6 — BEGIN ROAD WORK NEXT 2 MILES; NAME ADDRESS CITY STATE; CONTRACTOR — G20-5T, 48" X 24"; G20-6, 48" X 30"

7 — BEGIN WORK ZONE — G20-9TP, 36" X 30"; TRAFFIC FINES DOUBLE — R20-5T, 36" X 36"; WHEN WORKERS ARE PRESENT — R20-5aTP, 36" X 18"

8 — OBSERVE WARNING SIGNS STATE LAW — R20-3T, 48" X 42"

GRAPHIC SCALE IN FEET
100 0 50 100 200

GENERAL TRAFFIC CONTROL NOTES:

1. THE ADVANCE WARNING SIGNS SHALL BE LOCATED IN ADVANCE OF THE PHASING TRAFFIC CONTROL SEQUENCING FOR THE ABOVE LOCATIONS.
2. THE ADVANCE WARNING SIGNS SHALL REMAIN IN PLACE FOR THE DURATION OF THE CONTRACT OR AS DIRECTED BY THE ENGINEER.
3. THE CONTRACTOR SHALL MAINTAIN A MINIMUM 10' CLEAR ZONE (MEASURED FROM THE EDGE OF THE ADJACENT TRAFFIC LANE) DURING NON-WORK HOURS.
4. "X" REFER TO BC(2)-14 FOR SPACING.
5. WORK ALONG ROADWAY SHALL BE DURING DAYLIGHT HOURS ACCORDING TO TXDOT STANDARDS TCP(2-3)-18. BOTH LANES OF TRAFFIC WILL REMAIN OPEN DURING CONSTRUCTION.

NO.	REVISION	BY	DATE

MMC — DESIGNED
RLB — DRAWN
JLB — CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1" = 250"
VERT N/A
DATE OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
TRAFFIC CONTROL PLAN
ADVANCED WARNING SIGNS 2 OF 3

DA PROJECT B005663.001
SHEET 17

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PLOTTED BY: Allison Alaska
PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 2:52:46 PM

Texas 811
Know what's below.
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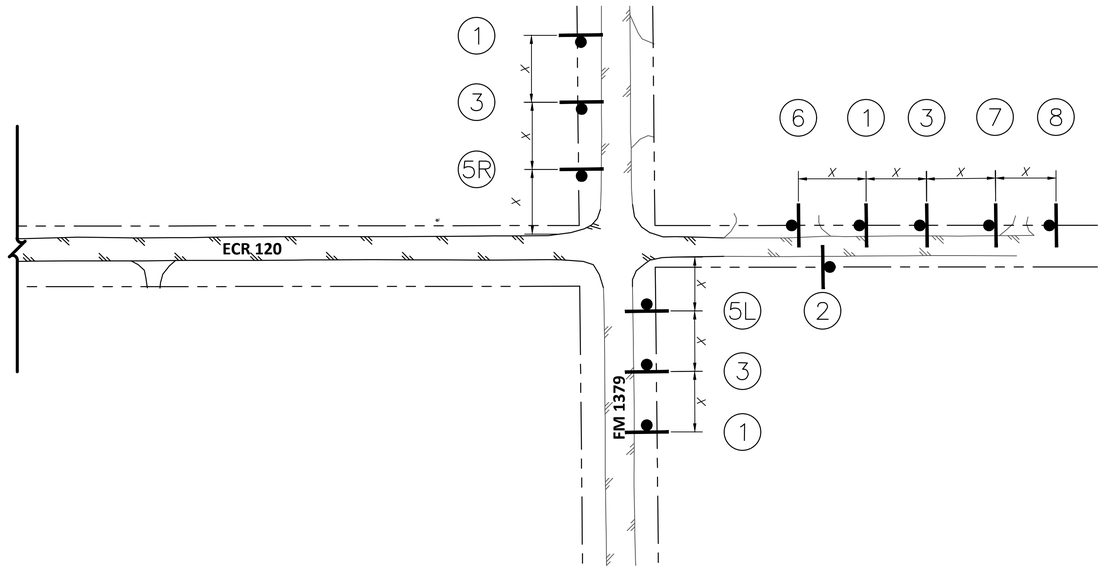
OFF-SITE BENCHMARK:

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NAD83 GRID COORDINATES N: 10,648,880.14' E:1,765,914.09'
PUBLISHED ELEVATION: 2765.53' NAVD88 DATUM

BENCHMARK NOTE:

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EAST COUNTY ROAD 120



1
ROAD WORK AHEAD
CW20-1D
36" X 36"

2
END ROAD WORK
G20-2
48" X 24"

3
SPEED LIMIT 30
R2-1
24" X 30"

4
ROAD WORK
NEXT 1 MILES
NEXT 1 MILES
G20-1aT
72" X 36"

5L
ROAD WORK
NEXT 1 MILES
G20-1bTL
72" X 24"

5R
ROAD WORK
NEXT 1 MILES
G20-1bTR
72" X 24"

6
BEGIN ROAD WORK NEXT 2 MILES
G20-5T
48" X 24"
NAME
ADDRESS
CITY
STATE
CONTRACTOR
G20-6
48" X 30"

7
BEGIN WORK ZONE
G20-9TP
36" X 30"
TRAFFIC FINES DOUBLE
R20-5T
36" X 36"
WHEN WORKERS ARE PRESENT
R20-5aTP
36" X 18"

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OBSERVE WARNING SIGNS
STATE LAW
R20-3T
48" X 42"

GRAPHIC SCALE IN FEET
100 0 50 100 200

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NO.	REVISION	BY	DATE

MMC DESIGNED
RLB DRAWN
JLB CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1" = 250'
VERT N/A
DATE OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
TRAFFIC CONTROL PLAN
ADVANCED WARNING SIGNS 3 OF 3

DA PROJECT B005663.001
SHEET 18

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PLOTTED BY: Allison Adcock
PLOT SCALE: 1:1 Plotted: October 06, 2022
PLOTTED AT: 2:25:57 PM

Texas 811
Know what's below. Call before you dig.

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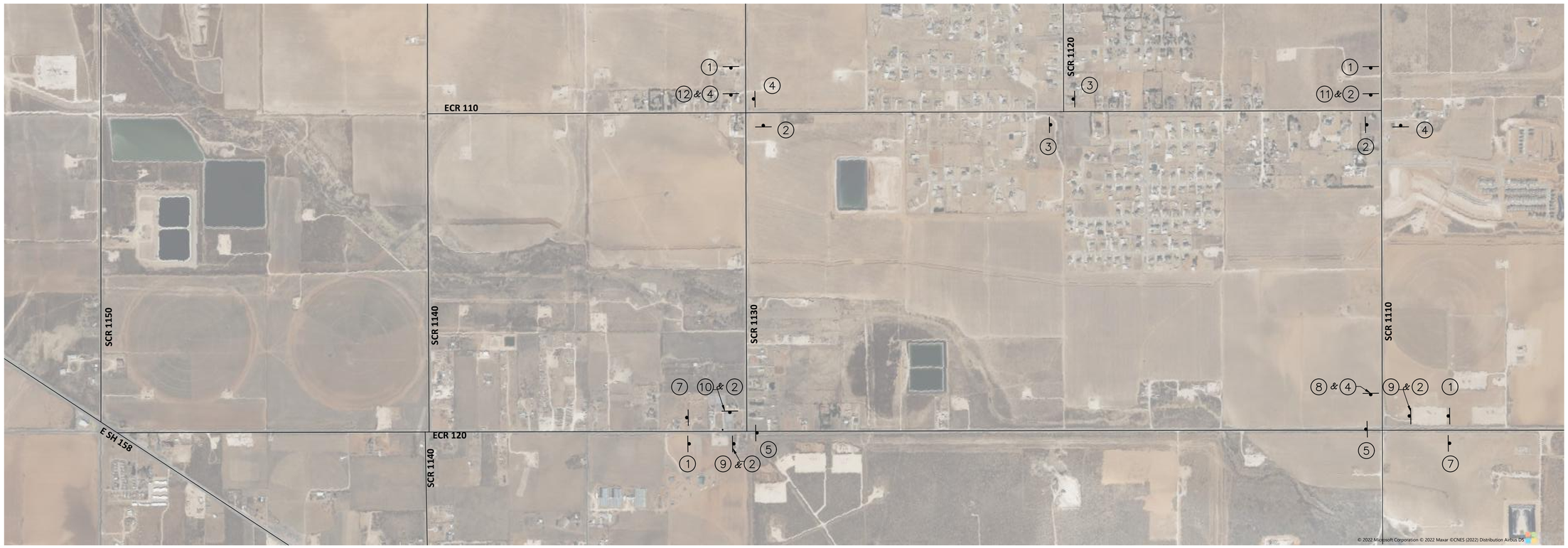
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PUBLISHED ELEVATION: 2765.53' NAVD88 DATUM

BENCHMARK NOTE:

SEE GENERAL NOTES (SHEET 1) FOR DETAILS.

EAST COUNTY ROAD 120



1 — DETOUR AHEAD — CW20-2D, 36" X 36"

2 — E CO R 120 / DETOUR — M4-9N 30" X 12" / M4-9R 30" X 30"

3 — E CO R 120 / DETOUR — M4-9N 30" X 12" / M4-9S 30" X 30"

4 — E CO R 120 / DETOUR — M4-9N 30" X 12" / M4-9L 30" X 30"

5 — ROAD CLOSED TO THRU TRAFFIC — R11-4, 60" X 30", W/TYPE III BARRICADES

6 — ROAD CLOSED — R11-2, 48" X 30", W/ TYPE III BARRICADES

7 — END DETOUR — M4-8a, 24" X 18"

8 — R3-1, 24" X 18"

9 — R3-27, 24" X 18"

10 — R3-2, 24" X 18"

11 — WEST — M3-4, 24" X 12"

12 — EAST — M3-2, 24" X 12"

TRAFFIC NARRATIVE:

1. TEMPORARY TRAFFIC BARRICADES AND DETOUR SIGNS SHALL BE INSTALLED AND PLACED AT THE APPROPRIATE LOCATIONS AS GOVERNED BY THE CURRENT TEXAS MUTCD.
2. EAST COUNTY ROAD 120, BETWEEN THE INTERSECTIONS OF STATE HIGHWAY 158 AND SOUTH COUNTY ROAD 1130, WILL BE ONE LANE, TWO WAY TRAFFIC CONTROL DURING ROADWAY CONSTRUCTION. PHASE 1 WILL HAVE TRAFFIC SHIFTED TO WESTBOUND SIDE TO ALLOW FOR CONSTRUCTION ON EASTBOUND SIDE. PHASE 2 WILL HAVE TRAFFIC SHIFTED TO EASTBOUND SIDE TO ALLOW CONSTRUCTION ON WESTBOUND SIDE.
3. EAST COUNTY ROAD 120, BETWEEN THE INTERSECTIONS OF SOUTH COUNTY ROAD 1130 AND SOUTH COUNTY ROAD 110, WILL BE CLOSED TO THROUGH TRAFFIC DURING PHASE 3 AND HAVE TRAFFIC FOLLOW TRAFFIC DETOUR PLAN.
4. IT IS ESTIMATED FOR THIS WORK TO BE COMPLETED WITHIN 6 MONTHS FROM THE START OF CONSTRUCTION.
5. AT THE END OF CONSTRUCTION, THE TEMPORARY TRAFFIC BARRICADES AND DETOUR SIGNS SHALL BE REMOVED AN THE PROPOSED ROADWAY WILL BE OPEN TO THROUGH TRAFFIC.

GENERAL TRAFFIC CONTROL NOTES:

1. TRAFFIC DETOUR SIGNS ARE DISPLAYED FOR ILLUSTRATIVE PURPOSES ONLY AND DO NOT REFLECT ACTUAL SIGN PLACEMENT LOCATIONS. FIELD CONDITIONS, STANDARDS, AND TEXAS MUTCD SHALL GOVERN ACTUAL SIGN LOCATIONS.
2. RESIDENTS SHALL HAVE DRIVE ACCESS TO THEIR PROPERTY AT ALL TIMES.

N

GRAPHIC SCALE IN FEET
900 0 450 900 1800

NO.	REVISION	BY	DATE

RLB DESIGNED
RLB DRAWN
BWA CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1" = 900'
VERT N/A
DATE OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS

TRAFFIC DETOUR PLAN

DA PROJECT B005663.001
SHEET 19

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PLOTTED BY: Allison Aldrich
PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 2:33:33 PM

Texas 811
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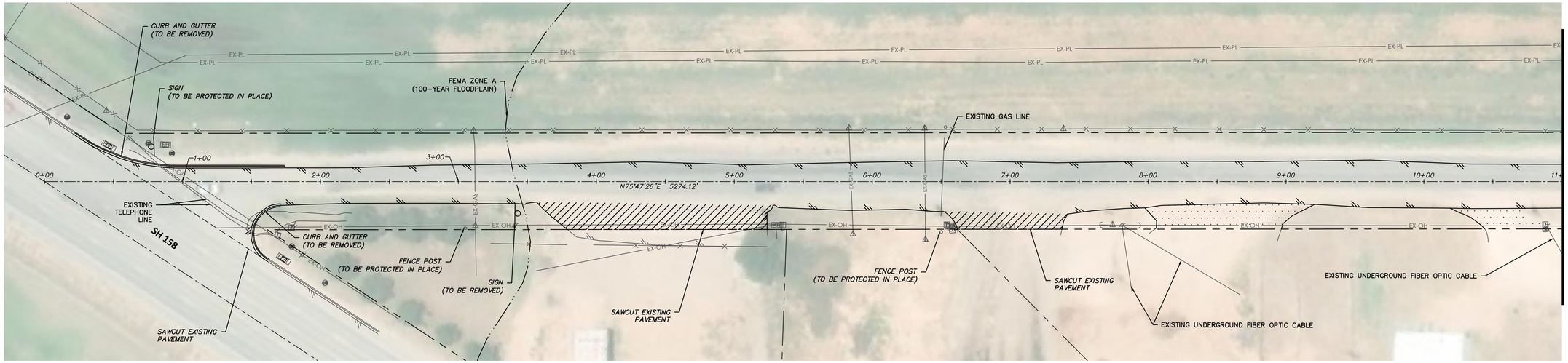
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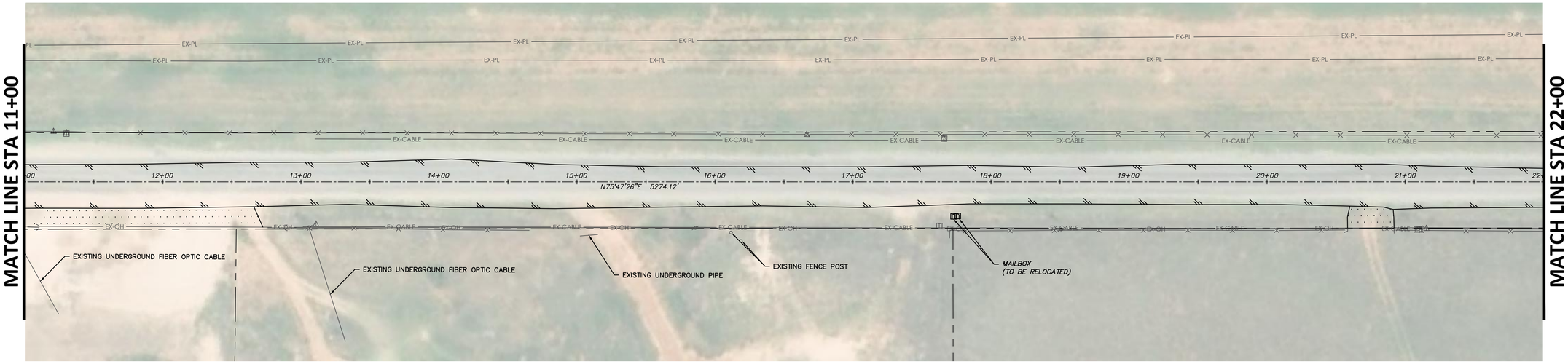
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BENCHMARK NOTE:

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EAST COUNTY ROAD 120





NOTES:
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3. CONTRACTOR TO COORDINATE WITH UTILITY OWNER TO VERIFY PROTECTION REQUIREMENT.

GRAPHIC SCALE IN FEET
40 0 20 40 80

NO.	REVISION	BY	DATE

MMC — DESIGNED
MMC — DRAWN
JLB — CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1"=40'
VERT N/A
DATE OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
OVERALL ROADWAY STATIONING
STA 0+00 TO 22+00

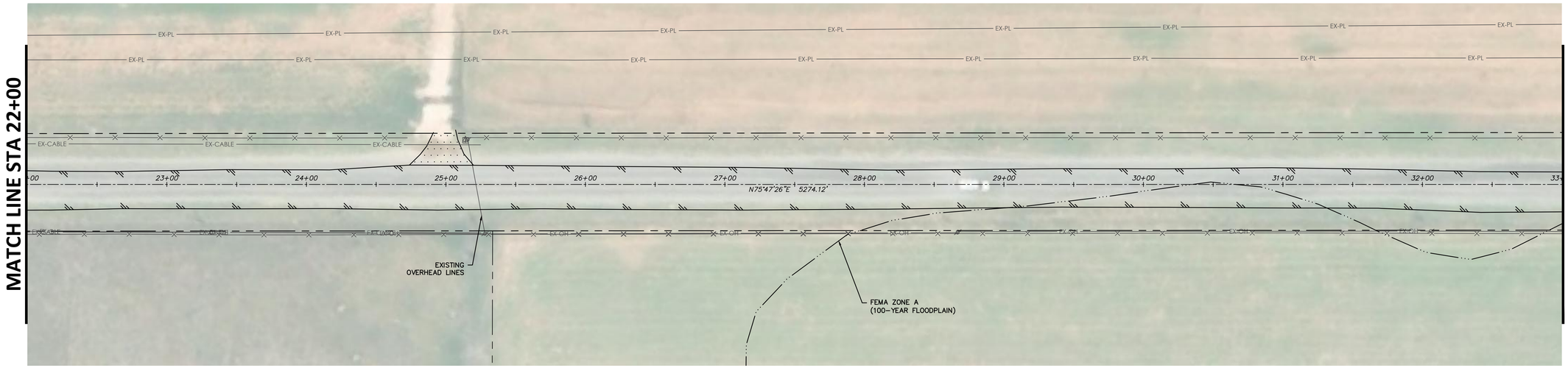
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SHEET 20

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PLOTTED ON: October 06, 2022
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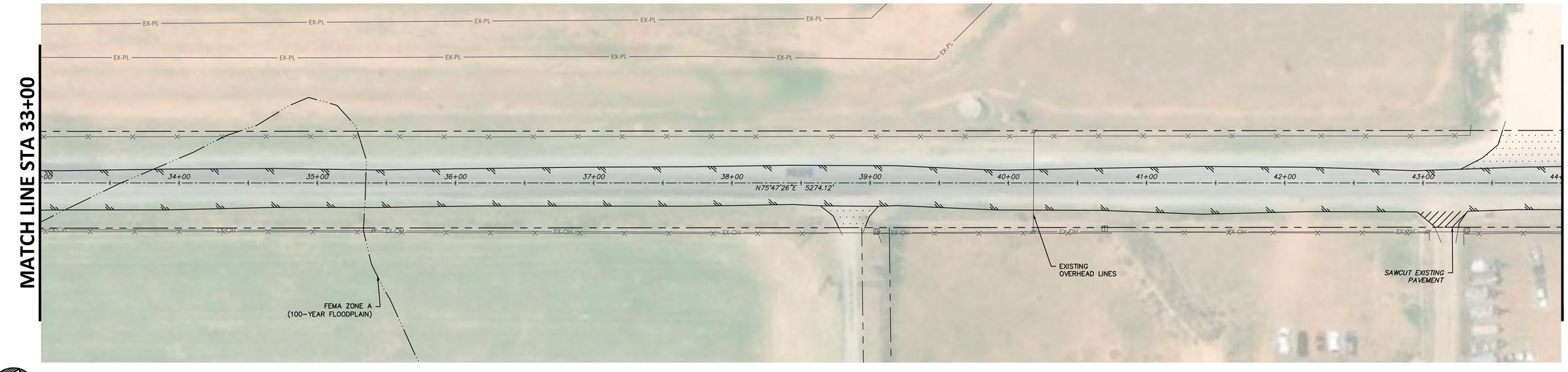
Texas 811
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EAST COUNTY ROAD 120



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GRAPHIC SCALE IN FEET
40 0 20 40 80

NO.	REVISION	BY	DATE

MMC — DESIGNED
MMC — DRAWN
JLB — CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1"=40'
VERT N/A
DATE OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
OVERALL ROADWAY STATIONING
STA 22+00 TO 44+00

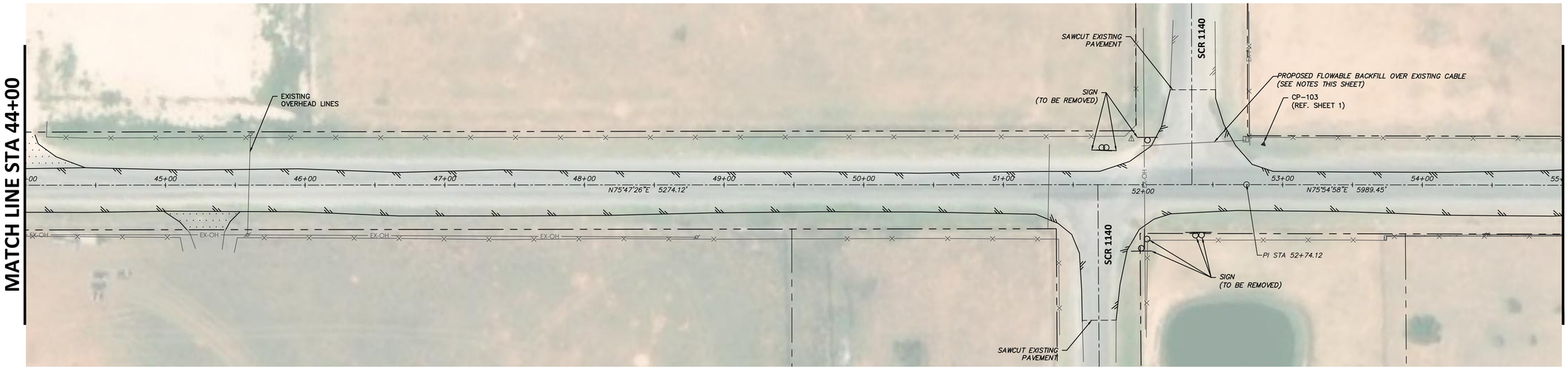
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SHEET 21

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PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 2:43:14 PM

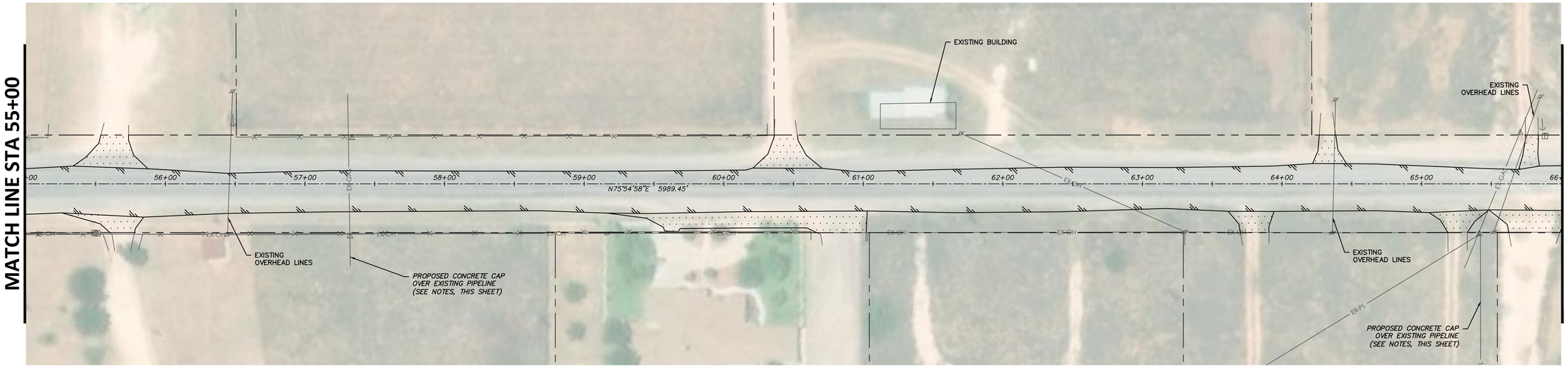
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40 0 20 40 80

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MMC DESIGNED
MMC DRAWN
JLB CHECKED

MIDLAND COUNTY
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SCALE
HORIZ 1"=40'
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10/06/22 STATE OF TEXAS JENNIFER L. BECKER 102960 LICENSED PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
OVERALL ROADWAY STATIONING
STA 44+00 TO 66+00

DA PROJECT B005663.001
SHEET 22

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PLOTTED BY: Rebekah Baker
PLOTTED ON: October 06, 2022
PLOTTED AT: 2:43:18 PM

Texas 811 — Know what's below. Call before you dig.

WARNING TO CONTRACTOR:

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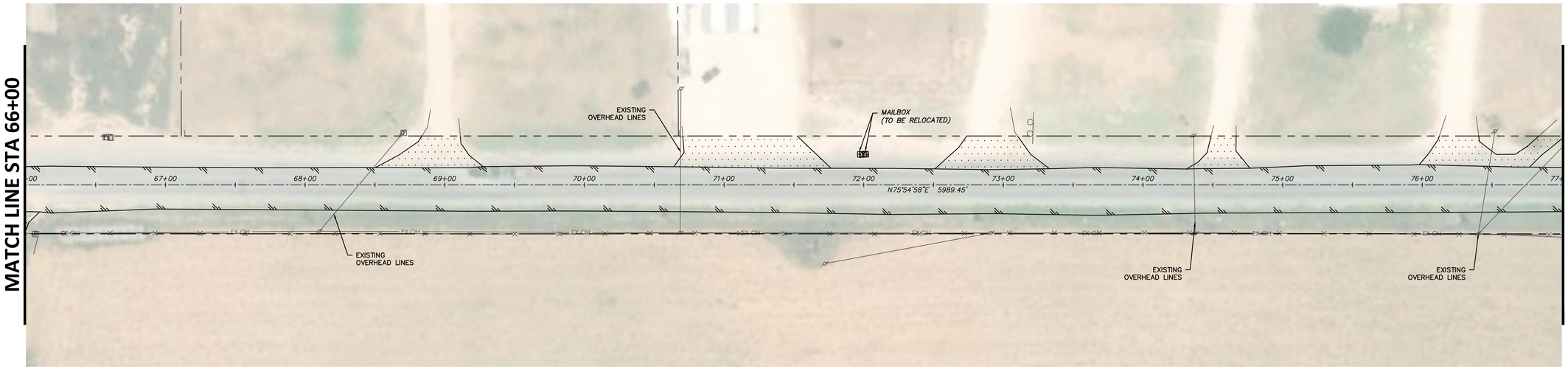
OFF-SITE BENCHMARK:

BRASS DISK SET IN CONCRETE STAMPED "T 1189 1967", LOCATED 38 FEET NORTH OF THE CENTERLINE OF WEST COUNTY ROAD 180 AND 150 FEET WEST OF THE CENTERLINE OF STATE HWY 349.
NAD83 GRID COORDINATES N: 10,648,880.14' E:1,765,914.09'
PUBLISHED ELEVATION: 2765.53' NAVD88 DATUM

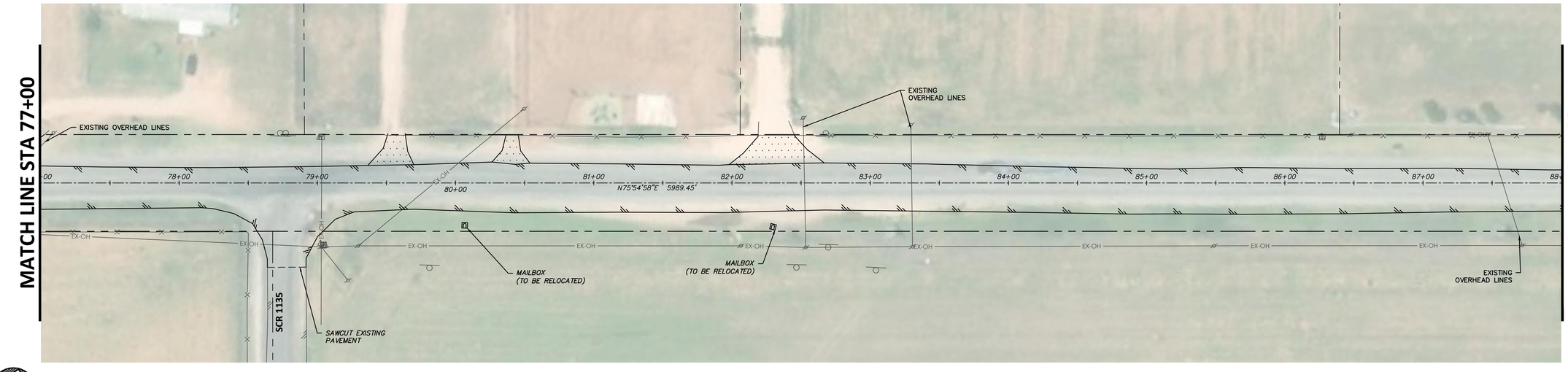
BENCHMARK NOTE:

SEE GENERAL NOTES (SHEET 1) FOR DETAILS.

EAST COUNTY ROAD 120



NOTES:
1. PIPELINE CONCRETE CAPS AND FLOWABLE BACKFILL ARE INTENDED TO BE INSTALLED ACROSS THE ENTIRE WIDTH OF THE RIGHT-OF-WAY.
2. CONTRACTOR TO FIELD VERIFY LOCATION OF UTILITY AND CENTER PROPOSED PROTECTION.
3. CONTRACTOR TO COORDINATE WITH UTILITY OWNER TO VERIFY PROTECTION REQUIREMENT.



GRAPHIC SCALE IN FEET
40 0 20 40 80

NO.	REVISION	BY	DATE

MMC — DESIGNED
MMC — DRAWN
JLB — CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1"=40'
VERT N/A
DATE OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
OVERALL ROADWAY STATIONING
STA 66+00 TO 88+00

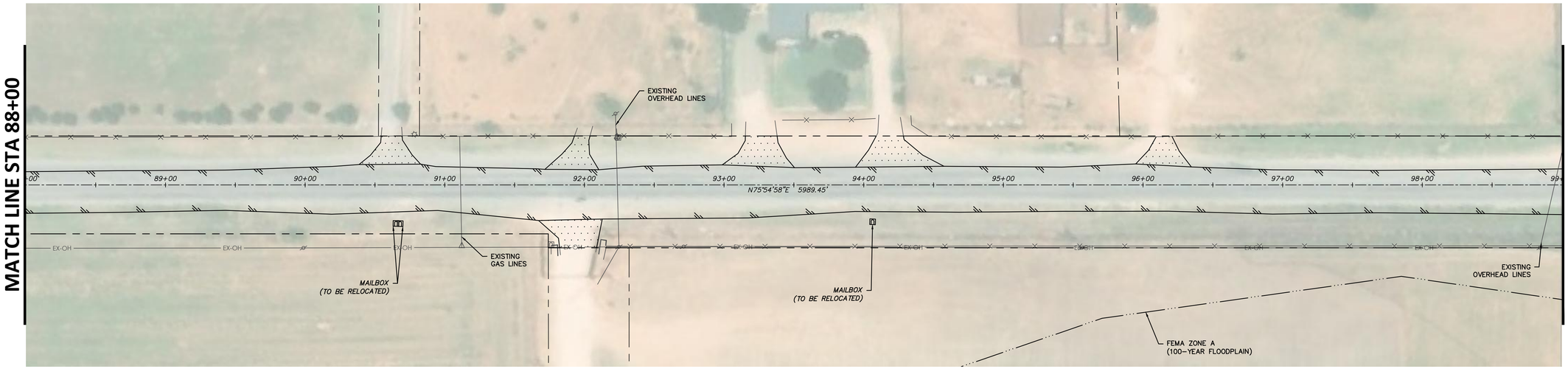
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SHEET 23

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PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 2:43:23 PM

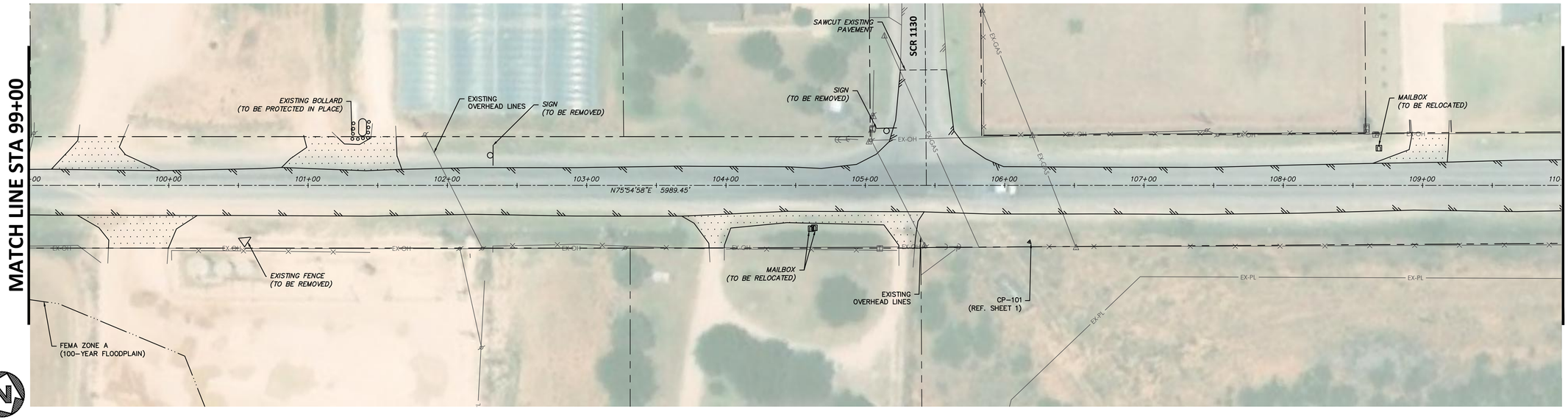
Texas 811
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WARNING TO CONTRACTOR:	CRITICAL:	UTILITY RELOCATION NOTE:	STATE PLANE COORDINATE NOTE:	OFF-SITE BENCHMARK:	BENCHMARK NOTE:
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EAST COUNTY ROAD 120



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40 0 20 40 80

NO.	REVISION	BY	DATE

MMC — DESIGNED
MMC — DRAWN
JLB — CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1"=40"
VERT N/A
DATE OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
OVERALL ROADWAY STATIONING
STA 88+00 TO 110+00

DA PROJECT B005663.001
SHEET 24

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PLOTTED BY: Rishikesh Baker
PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 2:43:27 PM

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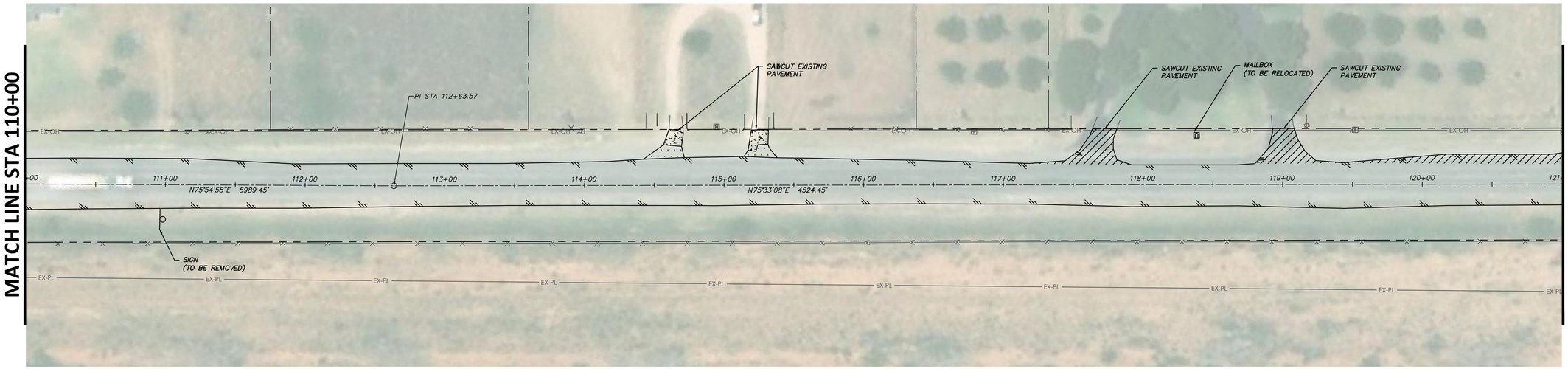
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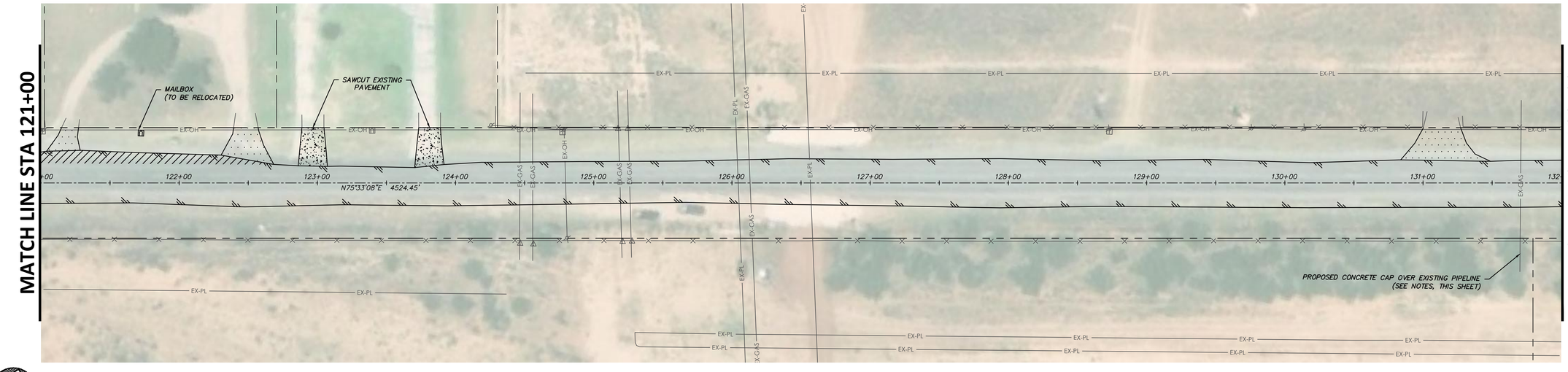
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EAST COUNTY ROAD 120



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GRAPHIC SCALE IN FEET
40 0 20 40 80

NO.	REVISION	BY	DATE

MMC DESIGNED
MMC DRAWN
JLB CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1"=40'
VERT N/A
DATE OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
OVERALL ROADWAY STATIONING
STA 110+00 TO 132+00

DA PROJECT B005663.001
SHEET 25

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PLOTTED BY: Rebekah Baker
PLOTTED ON: October 06, 2022
PLOTTED AT: 2:43:31 PM

Texas 811
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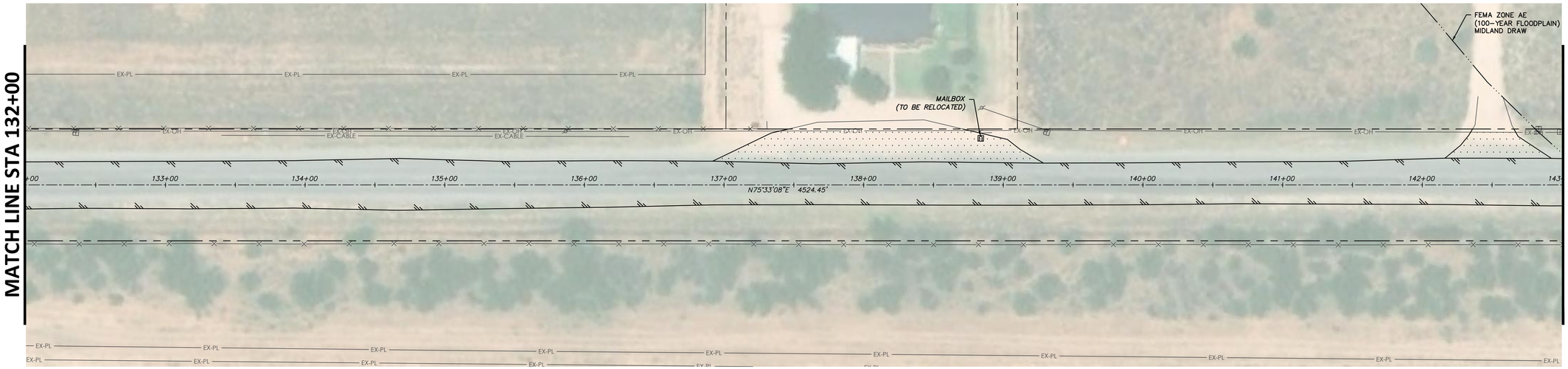
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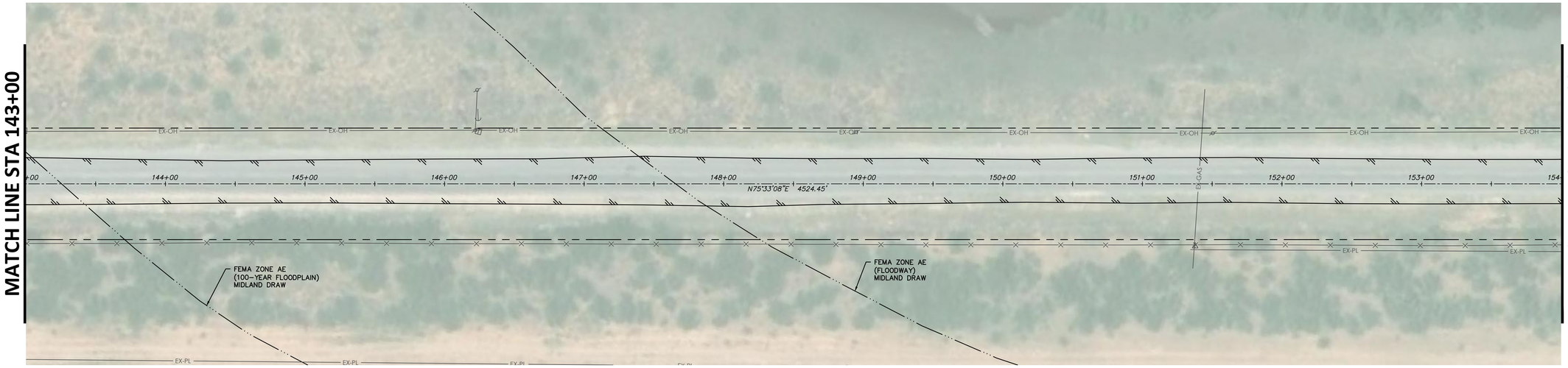
BENCHMARK NOTE:

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EAST COUNTY ROAD 120



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GRAPHIC SCALE IN FEET
40 0 20 40 80

NO.	REVISION	BY	DATE

MMC DESIGNED
MMC DRAWN
JLB CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1"=40'
VERT N/A
DATE OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
OVERALL ROADWAY STATIONING
STA 132+00 TO 154+00

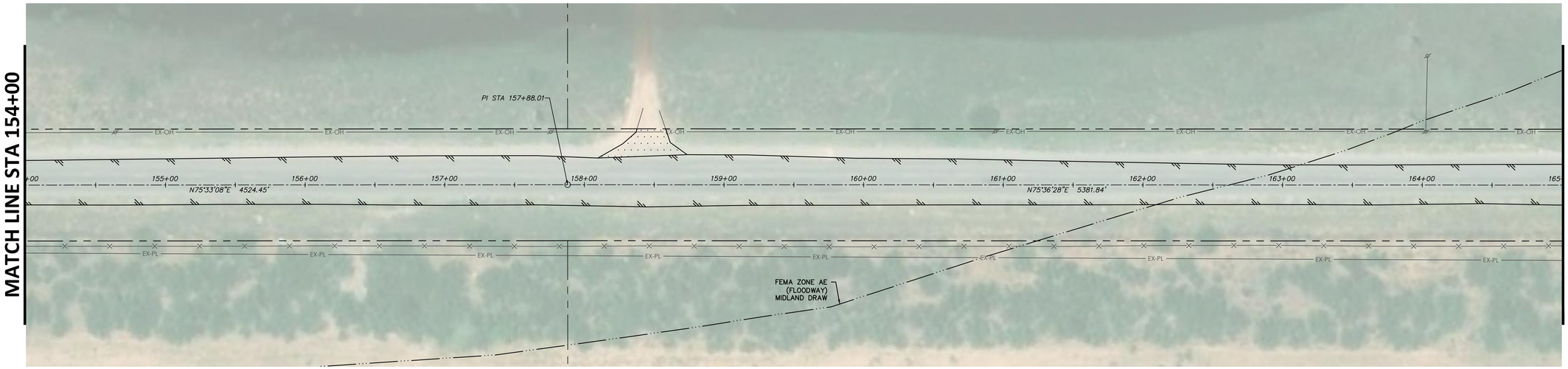
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SHEET 26

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PLOTTED ON: November 08, 2022
PLOTTED AT: 2:43:35 PM

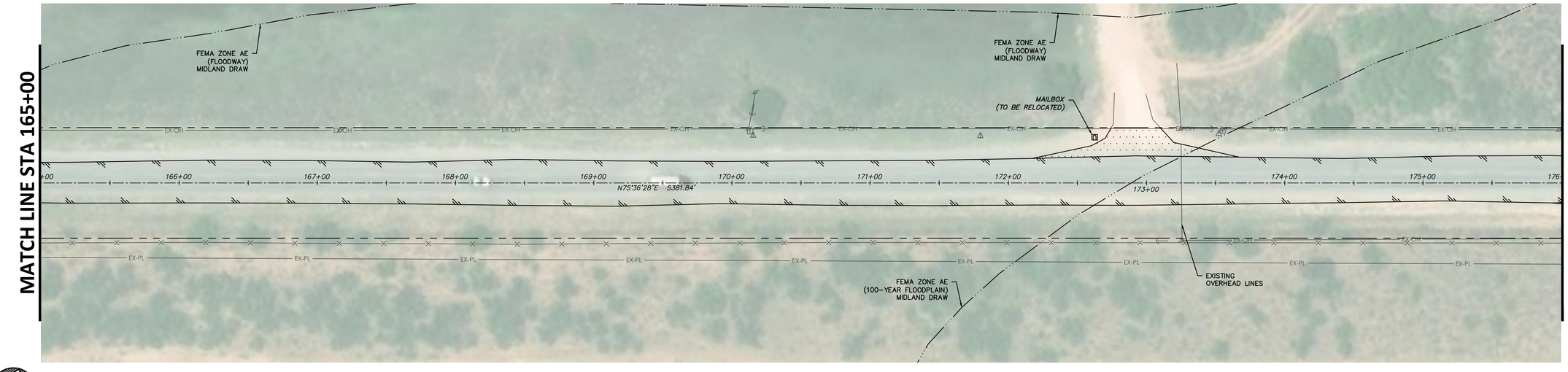
Texas 811
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EAST COUNTY ROAD 120



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GRAPHIC SCALE IN FEET
40 0 20 40 80

NO.	REVISION	BY	DATE

MMC — DESIGNED
MMC — DRAWN
JLB — CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1"=40'
VERT N/A
DATE OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
OVERALL ROADWAY STATIONING
STA 154+00 TO 176+00

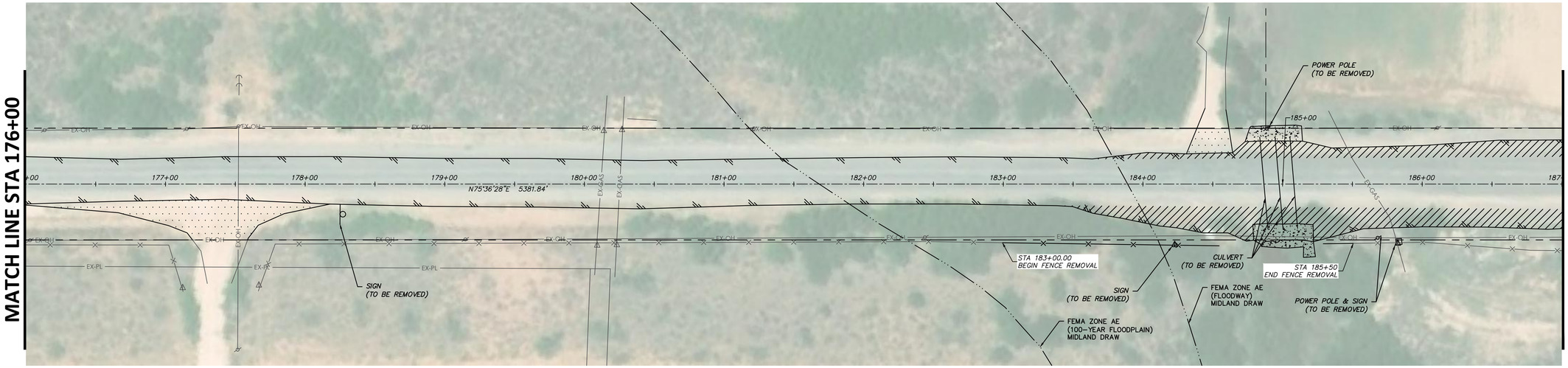
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SHEET 27

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PLOTTED ON: October 06, 2022
PLOTTED AT: 2:43:39 PM

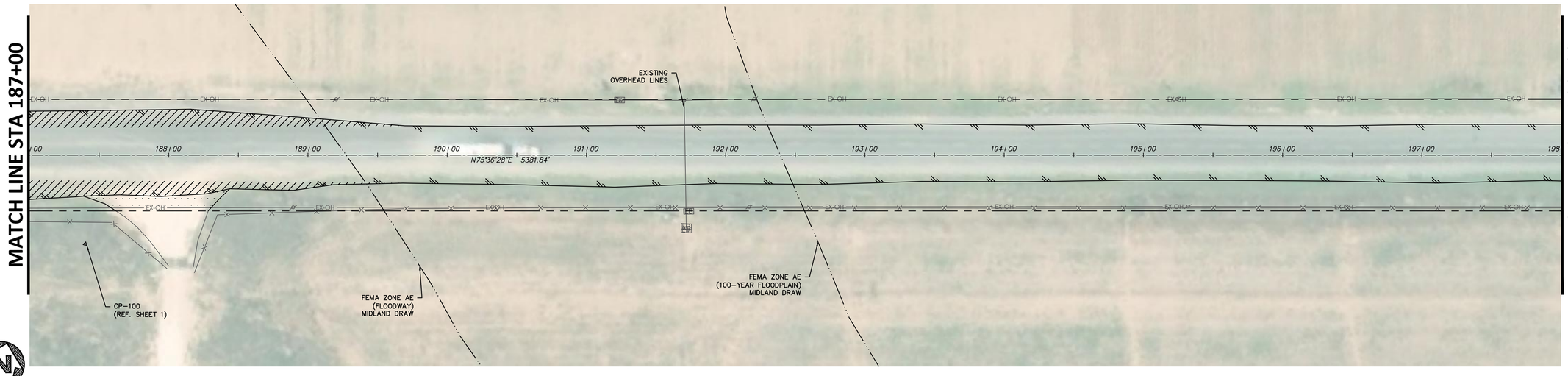
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EAST COUNTY ROAD 120



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GRAPHIC SCALE IN FEET
40 0 20 40 80

NO.	REVISION	BY	DATE

MMC DESIGNED
MMC DRAWN
JLB CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1"=40'
VERT N/A
DATE OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
OVERALL ROADWAY STATIONING
STA 176+00 TO 198+00

DA PROJECT B005663.001
SHEET 28

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PLOTTED BY: Rishesh Baker
PLOTTED ON: October 06, 2022
PLOTTED AT: 2:43:13 PM

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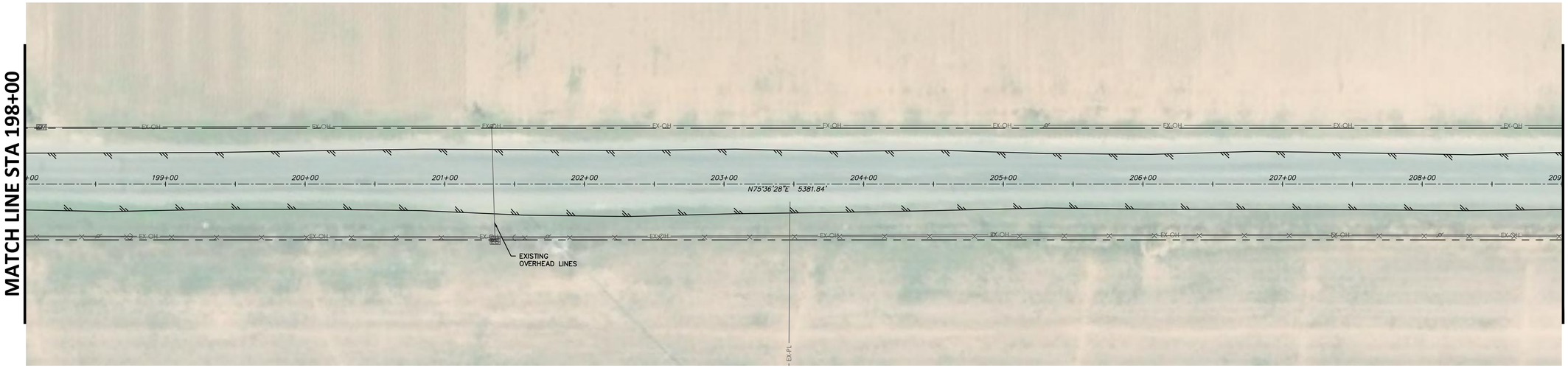
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PUBLISHED ELEVATION: 2765.53' NAVD88 DATUM

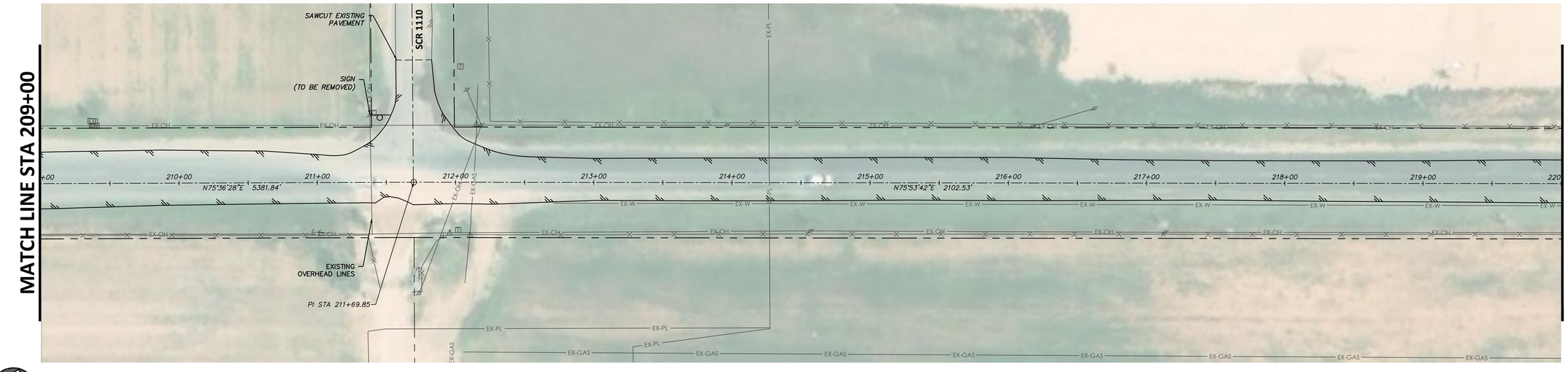
BENCHMARK NOTE:

SEE GENERAL NOTES (SHEET 1) FOR DETAILS.

EAST COUNTY ROAD 120



NOTES:
1. PIPELINE CONCRETE CAPS AND FLOWABLE BACKFILL ARE INTENDED TO BE INSTALLED ACROSS THE ENTIRE WIDTH OF THE RIGHT-OF-WAY.
2. CONTRACTOR TO FIELD VERIFY LOCATION OF UTILITY AND CENTER PROPOSED PROTECTION.
3. CONTRACTOR TO COORDINATE WITH UTILITY OWNER TO VERIFY PROTECTION REQUIREMENT.



GRAPHIC SCALE IN FEET
40 0 20 40 80

NO.	REVISION	BY	DATE

MMC — DESIGNED
MMC — DRAWN
JLB — CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1"=40'
VERT N/A
DATE OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
OVERALL ROADWAY STATIONING
STA 198+00 TO 220+00

DA PROJECT B005663.001
SHEET 29

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PLOTTED BY: Rebekah Baker
PLOTTED ON: October 06, 2022
PLOTTED AT: 2:43:46 PM

Texas 811 — Know what's below. Call before you dig.

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.

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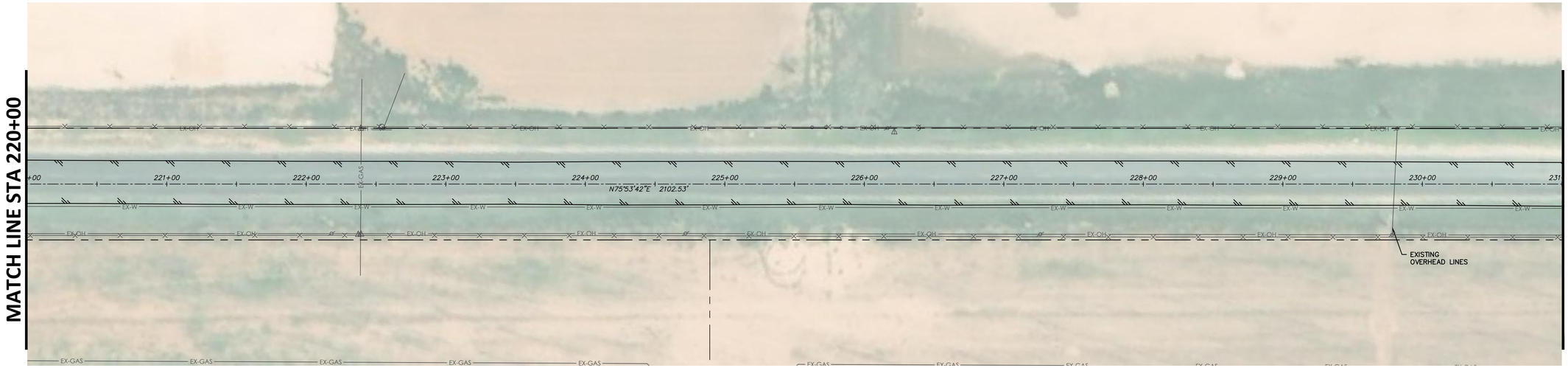
OFF-SITE BENCHMARK:

BRASS DISK SET IN CONCRETE STAMPED "T 1189 1967", LOCATED 38 FEET NORTH OF THE CENTERLINE OF WEST COUNTY ROAD 180 AND 150 FEET WEST OF THE CENTERLINE OF STATE HWY 349.
NAD83 GRID COORDINATES N: 10,648,880.14' E:1,765,914.09'
PUBLISHED ELEVATION: 2765.53' NAVD88 DATUM

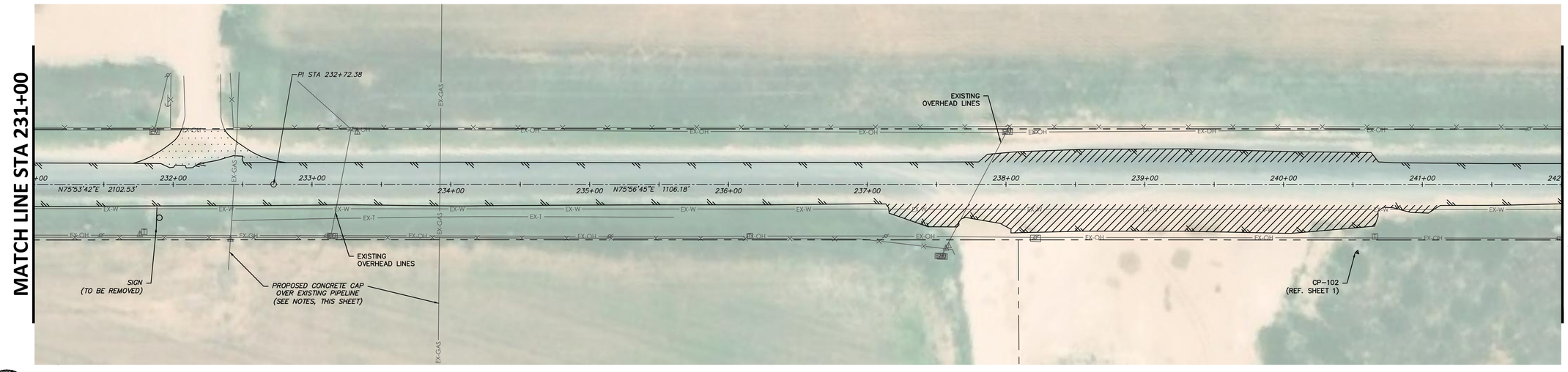
BENCHMARK NOTE:

SEE GENERAL NOTES (SHEET 1) FOR DETAILS.

EAST COUNTY ROAD 120



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GRAPHIC SCALE IN FEET
40 0 20 40 80

NO.	REVISION	BY	DATE

MMC — DESIGNED
MMC — DRAWN
JLB — CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE: HORIZ 1"=40' / VERT N/A
DATE: OCTOBER 2022

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

10/06/22 — STATE OF TEXAS — JENNIFER L. BECKER — 102960 — LICENSED PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
OVERALL ROADWAY STATIONING
STA 220+00 TO 242+00

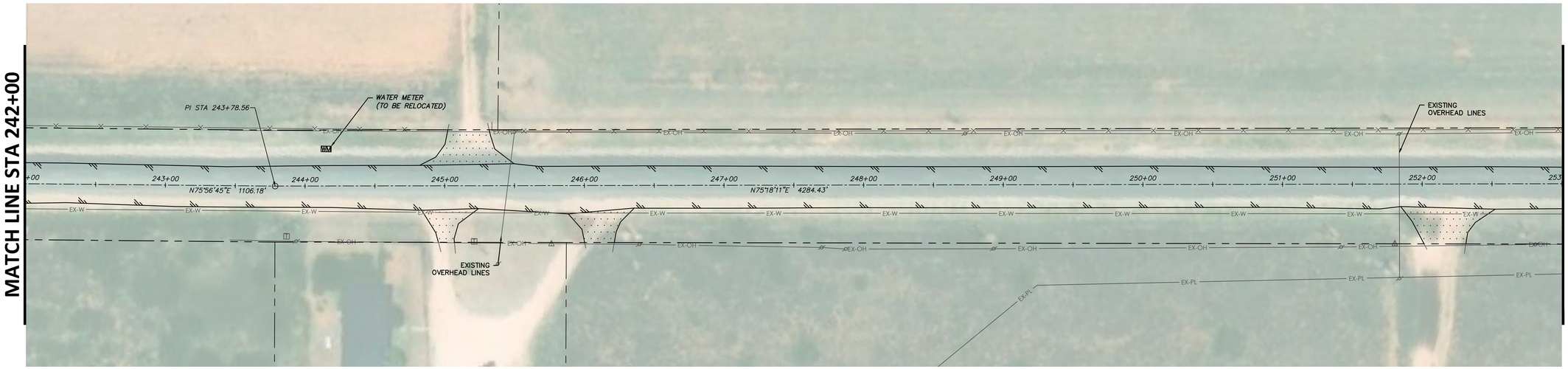
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SHEET 30

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PLOTTED BY: Rishesh Baker
PLOTTED ON: October 06, 2022
PLOTTED AT: 2:43:51 PM

Texas 811
Know what's below. Call before you dig.

WARNING TO CONTRACTOR:	CRITICAL:	UTILITY RELOCATION NOTE:	STATE PLANE COORDINATE NOTE:	OFF-SITE BENCHMARK:	BENCHMARK NOTE:
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EAST COUNTY ROAD 120



NOTES:
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GRAPHIC SCALE IN FEET
40 0 20 40 80

NO.	REVISION	BY	DATE

MMC DESIGNED
MMC DRAWN
JLB CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1"=40'
VERT N/A
DATE OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
OVERALL ROADWAY STATIONING
STA 242+00 TO 264+00

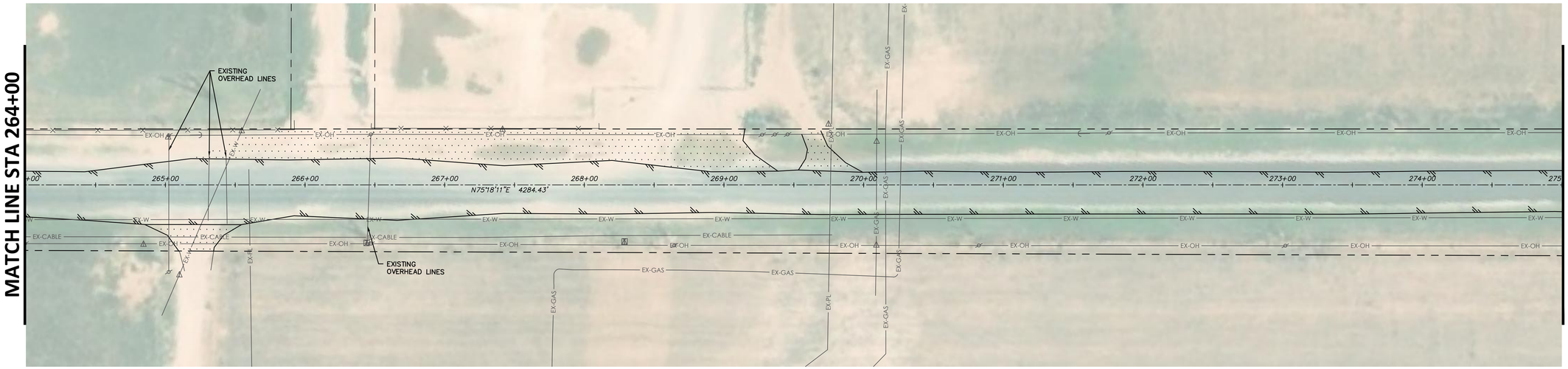
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PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 2:43:55 PM

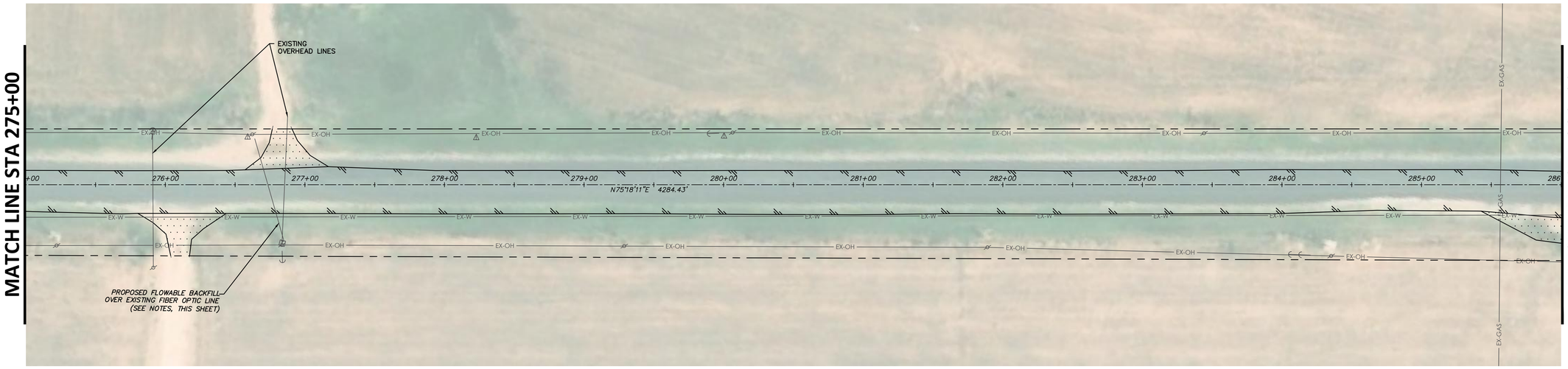
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Know what's below. Call before you dig.

WARNING TO CONTRACTOR:	CRITICAL:	UTILITY RELOCATION NOTE:	STATE PLANE COORDINATE NOTE:	OFF-SITE BENCHMARK:	BENCHMARK NOTE:
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EAST COUNTY ROAD 120



NOTES:
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GRAPHIC SCALE IN FEET
40 0 20 40 80

NO.	REVISION	BY	DATE

MMC DESIGNED | MMC DRAWN | JLB CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE: HORIZ 1"=40' | VERT N/A
DATE: OCTOBER 2022

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

10/06/22 STATE OF TEXAS JENNIFER L. BECKER 102960 LICENSED PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
OVERALL ROADWAY STATIONING
STA 264+00 TO 286+00

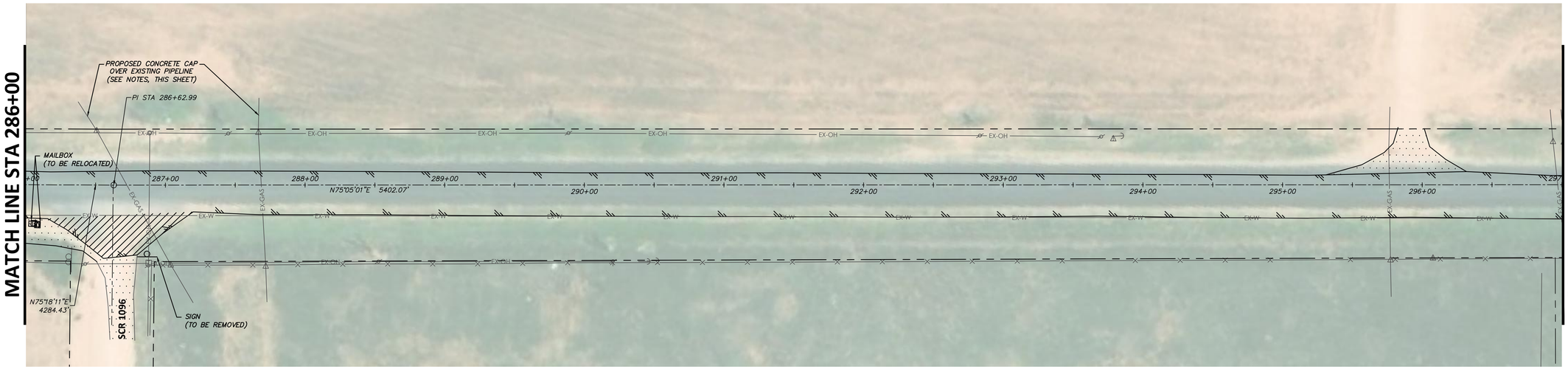
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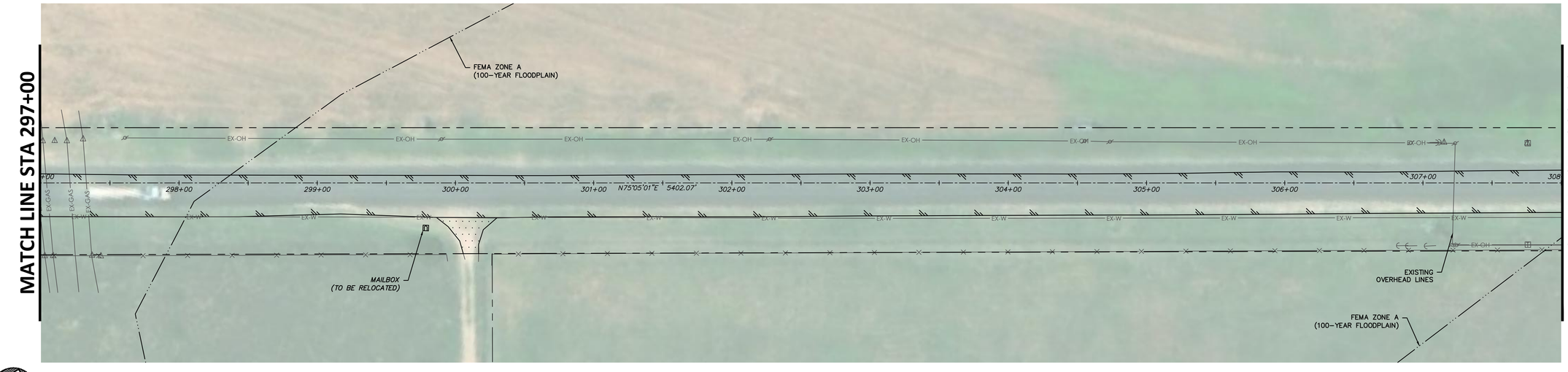
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WARNING TO CONTRACTOR:	CRITICAL:	UTILITY RELOCATION NOTE:	STATE PLANE COORDINATE NOTE:	OFF-SITE BENCHMARK:	BENCHMARK NOTE:
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EAST COUNTY ROAD 120



NOTES:
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GRAPHIC SCALE IN FEET
40 0 20 40 80

NO.	REVISION	BY	DATE

MMC DESIGNED
MMC DRAWN
JLB CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1"=40'
VERT N/A
DATE OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
OVERALL ROADWAY STATIONING
STA 286+00 TO 308+00

DA PROJECT B005663.001
SHEET 33

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PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 2:44:03 PM

Texas 811 — Know what's below. Call before you dig.

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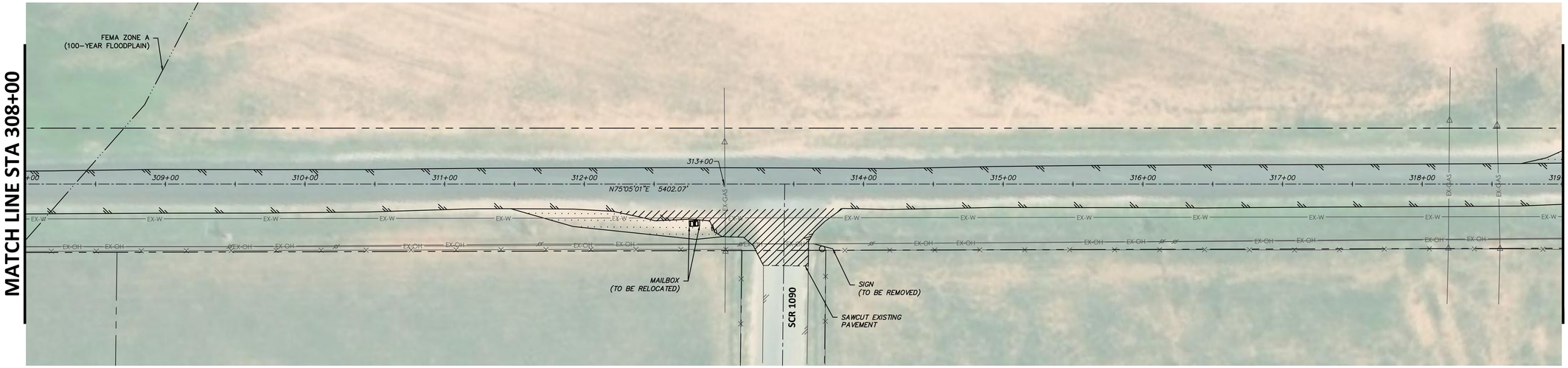
OFF-SITE BENCHMARK:

BRASS DISK SET IN CONCRETE STAMPED "T 1189 1967", LOCATED 38 FEET NORTH OF THE CENTERLINE OF WEST COUNTY ROAD 180 AND 150 FEET WEST OF THE CENTERLINE OF STATE HWY 349.
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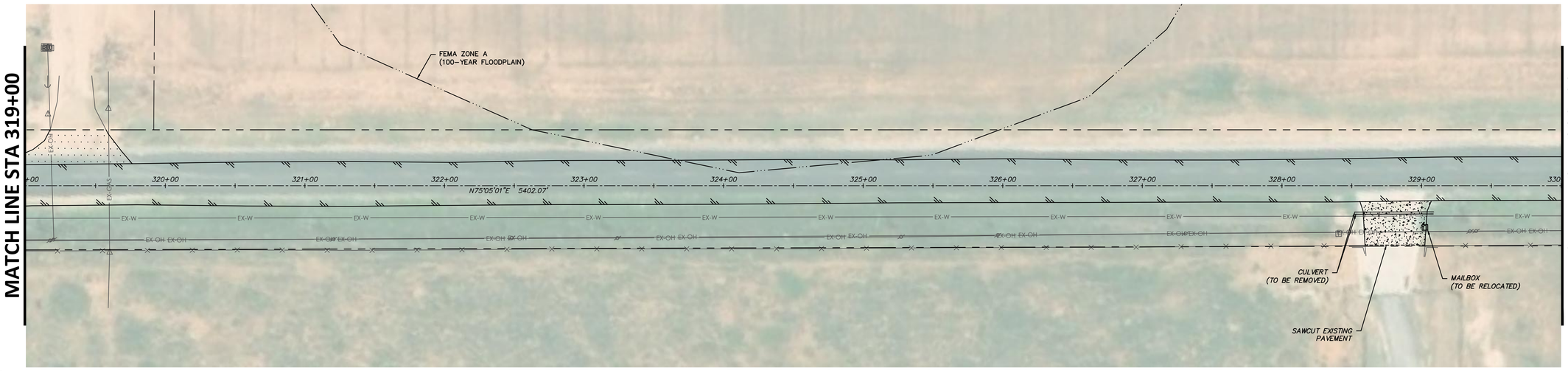
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EAST COUNTY ROAD 120



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GRAPHIC SCALE IN FEET
40 0 20 40 80

NO.	REVISION	BY	DATE

MMC — DESIGNED
MMC — DRAWN
JLB — CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1"=40'
VERT N/A
DATE OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
OVERALL ROADWAY STATIONING
STA 308+00 TO 330+00

DA PROJECT B005663.001
SHEET 34

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PLOTTED ON: October 06, 2022
PLOTTED AT: 2:44:07 PM

Texas 811
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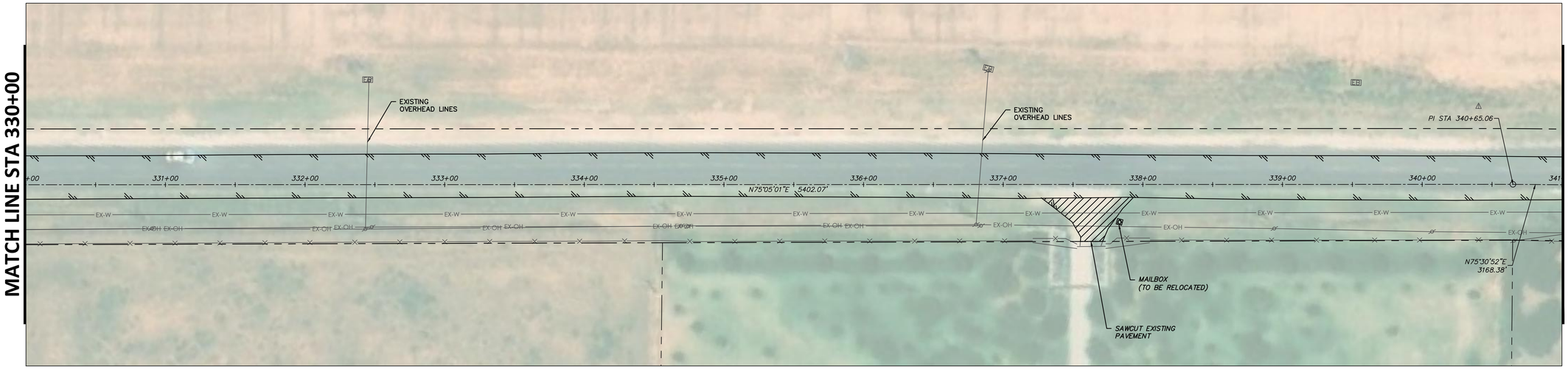
OFF-SITE BENCHMARK:

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NAD83 GRID COORDINATES N: 10,648,880.14' E:1,765,914.09'
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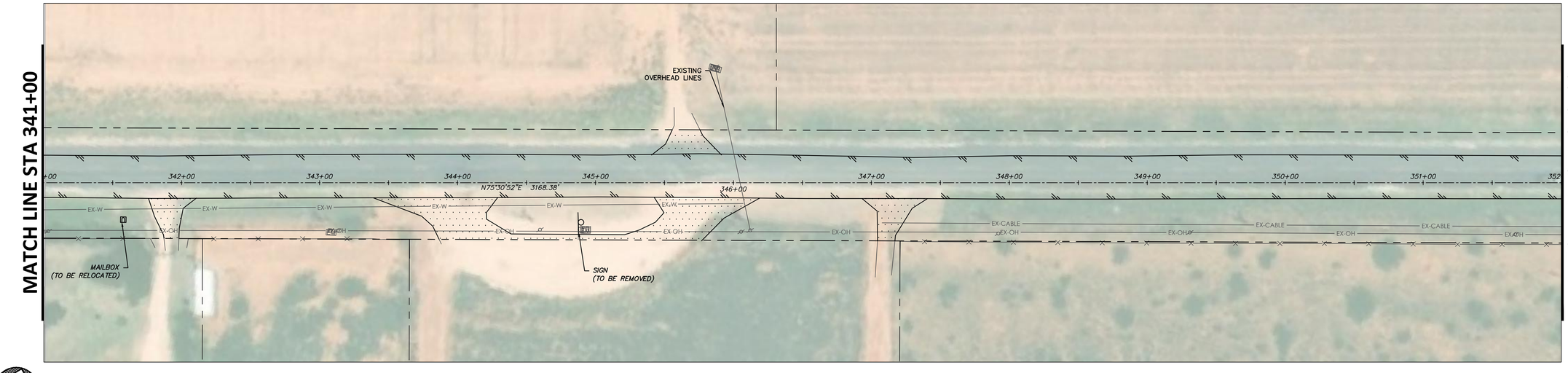
BENCHMARK NOTE:

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EAST COUNTY ROAD 120



NOTES:
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GRAPHIC SCALE IN FEET
40 0 20 40 80

NO.	REVISION	BY	DATE

MMC — DESIGNED
MMC — DRAWN
JLB — CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1"=40'
VERT N/A
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DUNAWAY
4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
Tel: 432.699.4889
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10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
OVERALL ROADWAY STATIONING
STA 330+00 TO 352+00

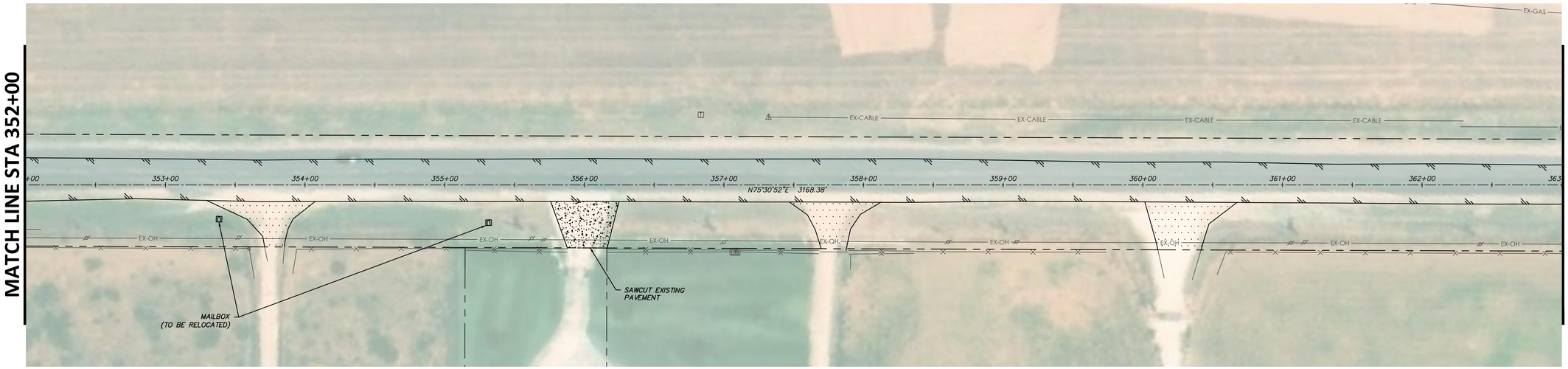
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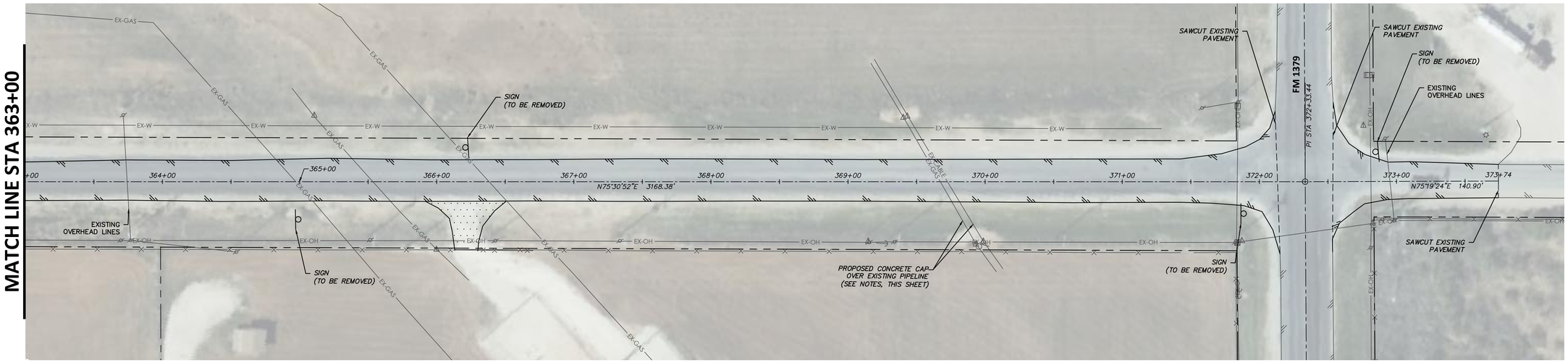
Texas 811
Know what's below. Call before you dig.

WARNING TO CONTRACTOR:	CRITICAL:	UTILITY RELOCATION NOTE:	STATE PLANE COORDINATE NOTE:	OFF-SITE BENCHMARK:	BENCHMARK NOTE:
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EAST COUNTY ROAD 120



NOTES:
1. PIPELINE CONCRETE CAPS AND FLOWABLE BACKFILL ARE INTENDED TO BE INSTALLED ACROSS THE ENTIRE WIDTH OF THE RIGHT-OF-WAY.
2. CONTRACTOR TO FIELD VERIFY LOCATION OF UTILITY AND CENTER PROPOSED PROTECTION.
3. CONTRACTOR TO COORDINATE WITH UTILITY OWNER TO VERIFY PROTECTION REQUIREMENT PRIOR TO INSTALLATION..



GRAPHIC SCALE IN FEET
40 0 20 40 80

NO.	REVISION	BY	DATE

MMC DESIGNED
MMC DRAWN
JLB CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1"=40'
VERT N/A
DATE OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
OVERALL ROADWAY STATIONING
STA 352+00 TO END

DA PROJECT B005663.001
SHEET 36

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PLOTTED BY: Rebekah Baker
PLOTTED ON: November 08, 2022
PLOTTED AT: 2:44:14 PM

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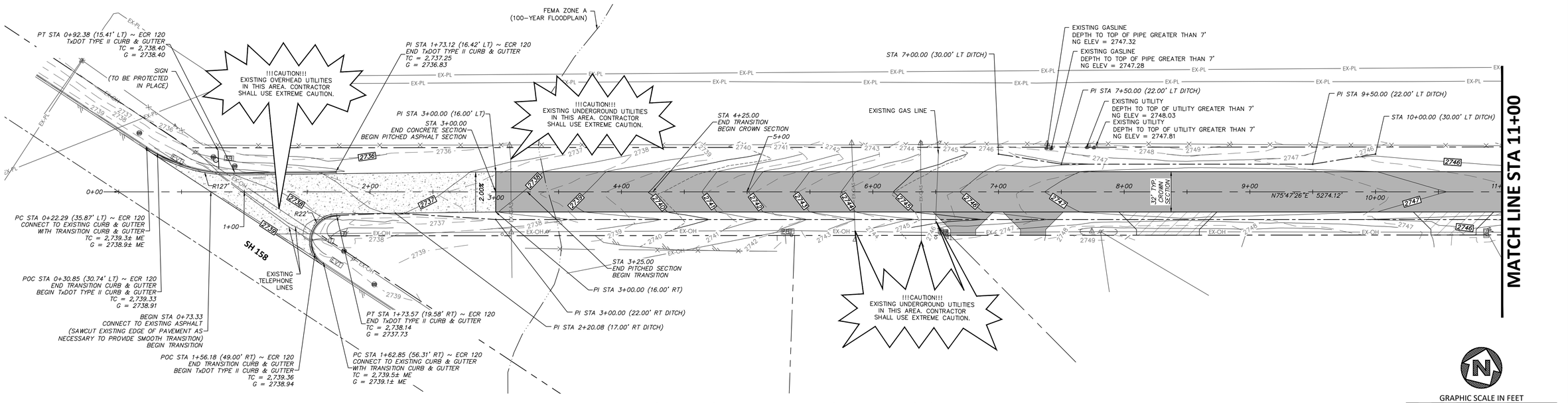
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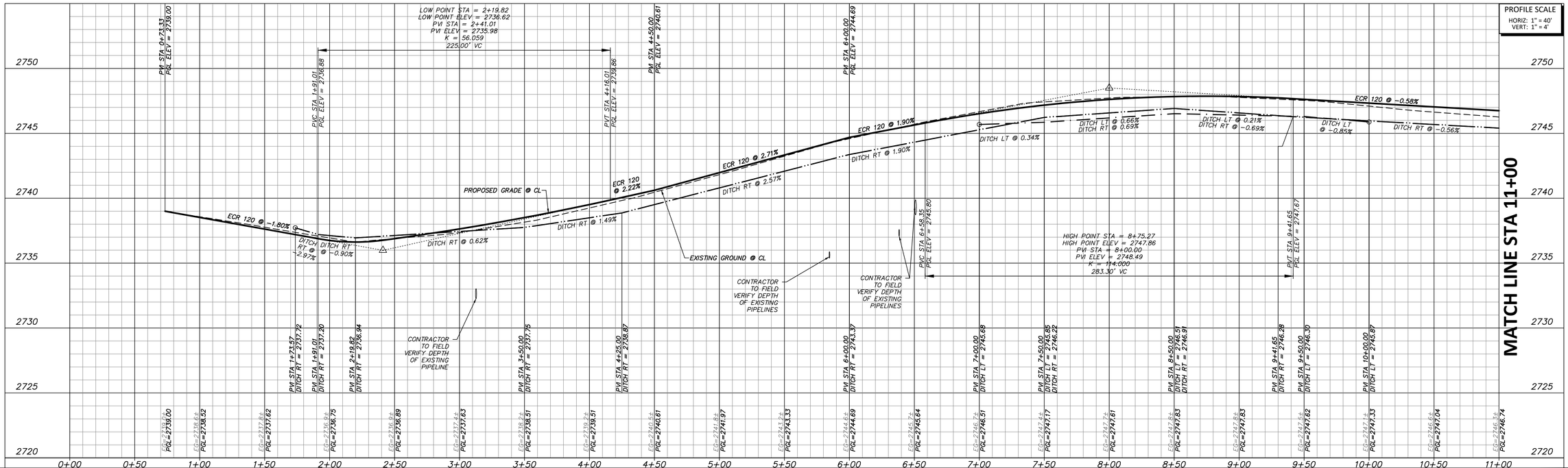
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EAST COUNTY ROAD 120

GRAPHIC SCALE IN FEET
40 0 20 40 80



NO.	REVISION	BY	DATE

MMC DESIGNED
MMC DRAWN
JLB CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1" = 40'
VERT 1" = 4'
DATE OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
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MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
PLAN AND PROFILE
STA 0+00 TO 11+00

DA PROJECT B005663.001
SHEET 37

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PLOTTED BY: Rebekah Baker
PLOTTED ON: October 06, 2022
PLOTTED AT: 2:49:13 PM

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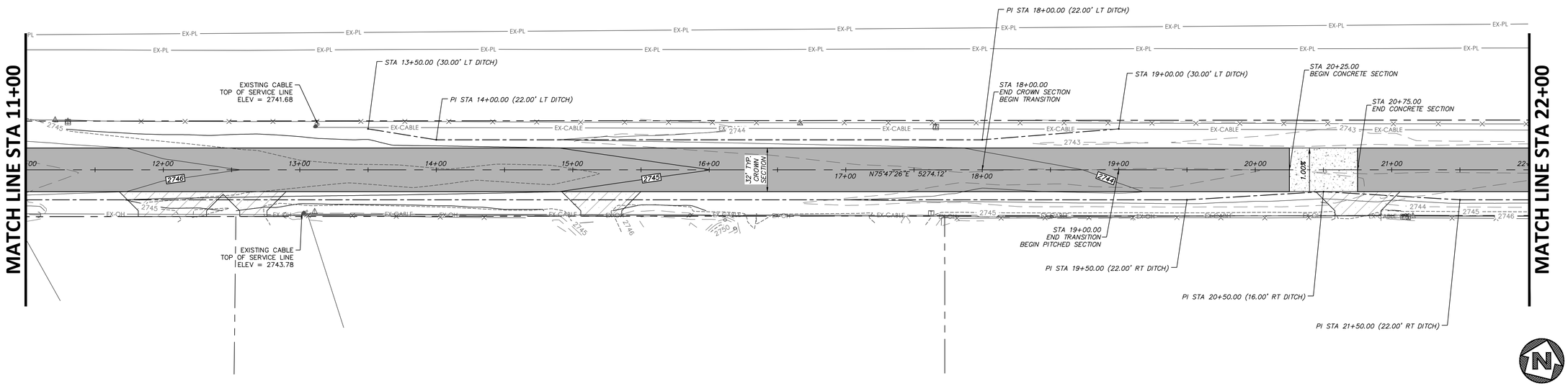
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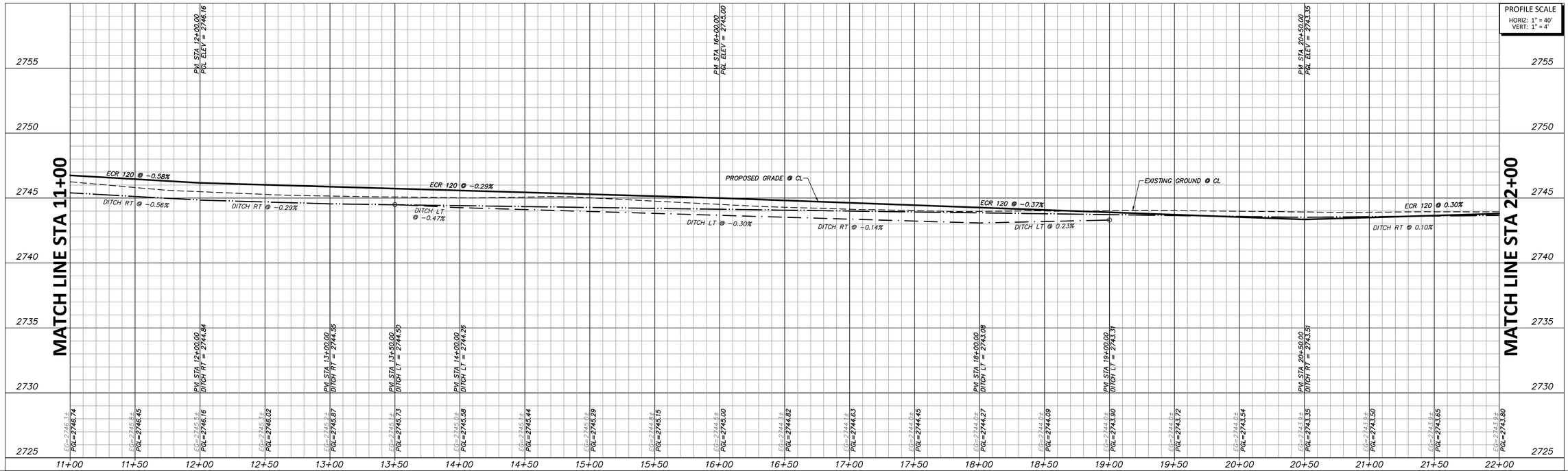
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EAST COUNTY ROAD 120

GRAPHIC SCALE IN FEET
40 0 20 40 80



NO.	REVISION	BY	DATE

MMC — DESIGNED
MMC — DRAWN
JLB — CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1" = 40'
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DATE
OCTOBER 2022

DUNAWAY
4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
Tel: 432.699.4889
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10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
PLAN AND PROFILE
STA 11+00 TO 22+00

DA PROJECT B005663.001
SHEET 38

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PLOTTED ON: Thursday, October 06, 2022
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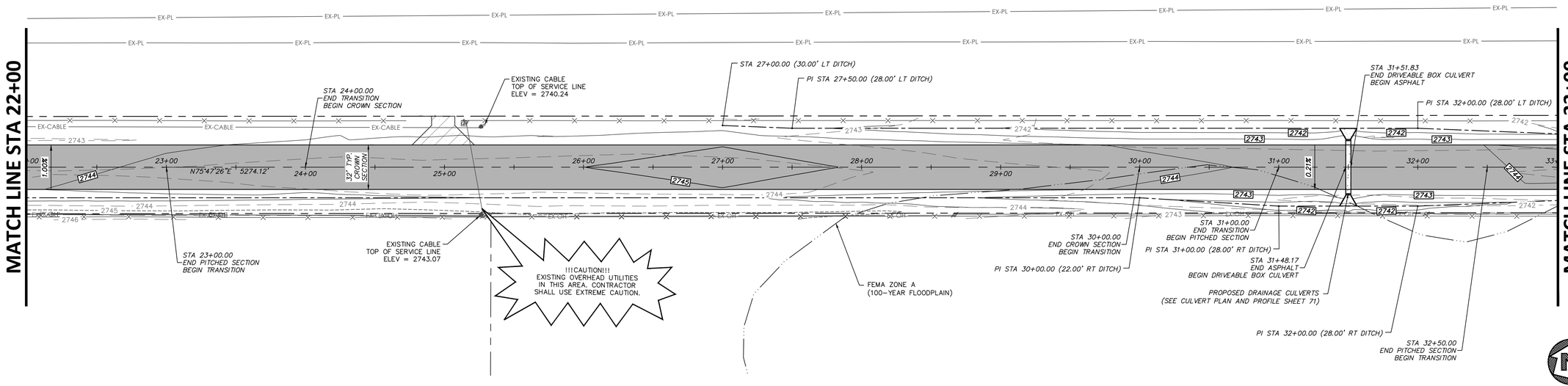
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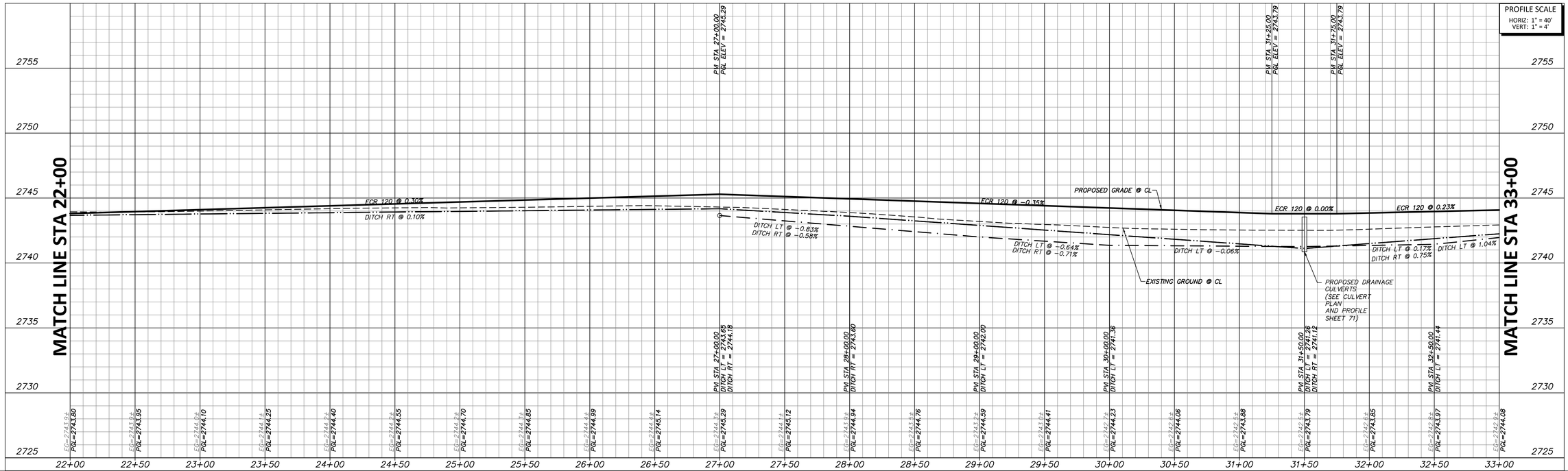
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EAST COUNTY ROAD 120

GRAPHIC SCALE IN FEET
40 0 20 40 80



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MMC DESIGNED
MMC DRAWN
JLB CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1" = 40'
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10/06/22
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MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
PLAN AND PROFILE
STA 22+00 TO 33+00

DA PROJECT
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SHEET
39

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PLOTTED BY: Rishesh Baxter
PLOTTED ON: October 06, 2022
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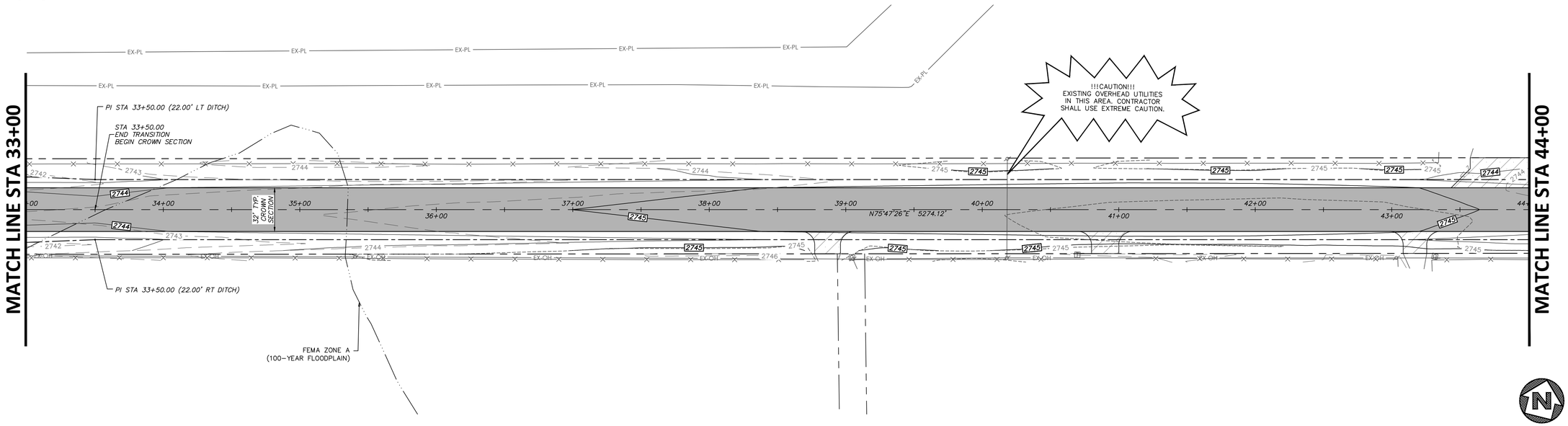
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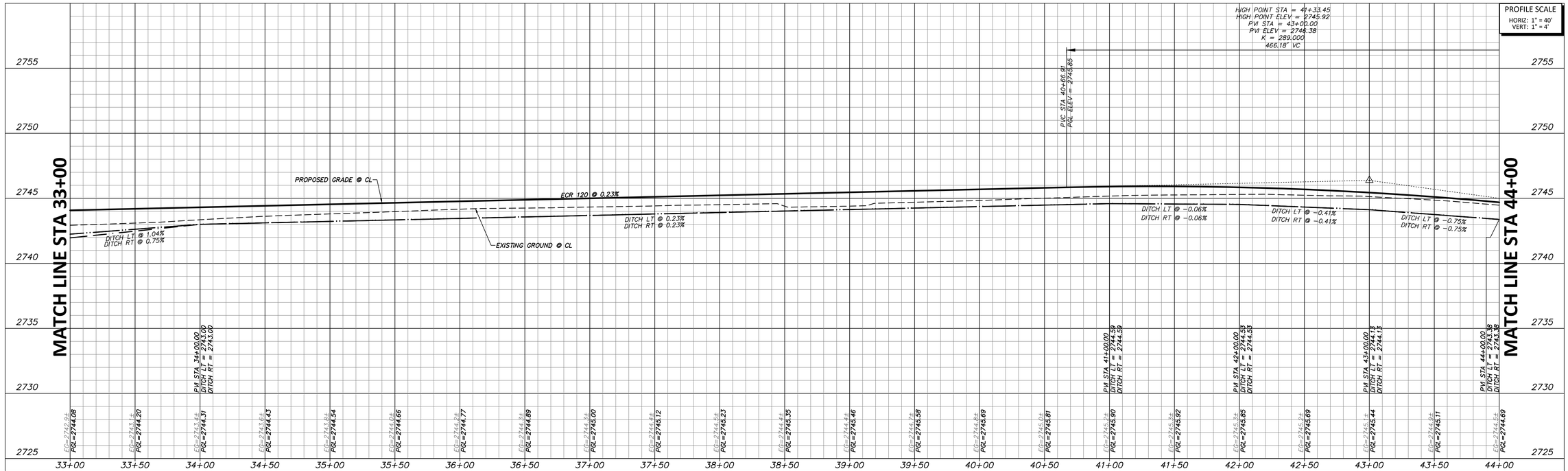
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EAST COUNTY ROAD 120

GRAPHIC SCALE IN FEET
40 0 20 40 80



NO.	REVISION	BY	DATE

MMC DESIGNED
MMC DRAWN
JLB CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
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DATE
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DUNAWAY
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10/06/22
STATE OF TEXAS
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MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
PLAN AND PROFILE
STA 33+00 TO 44+00

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SHEET 40

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PLOTTED ON: Thursday, October 06, 2022
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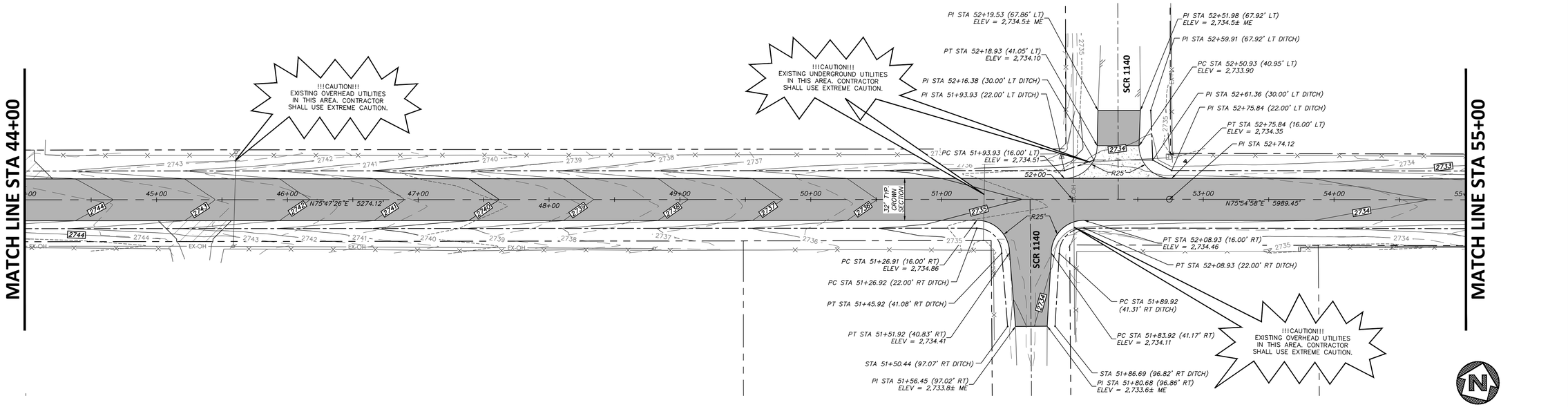
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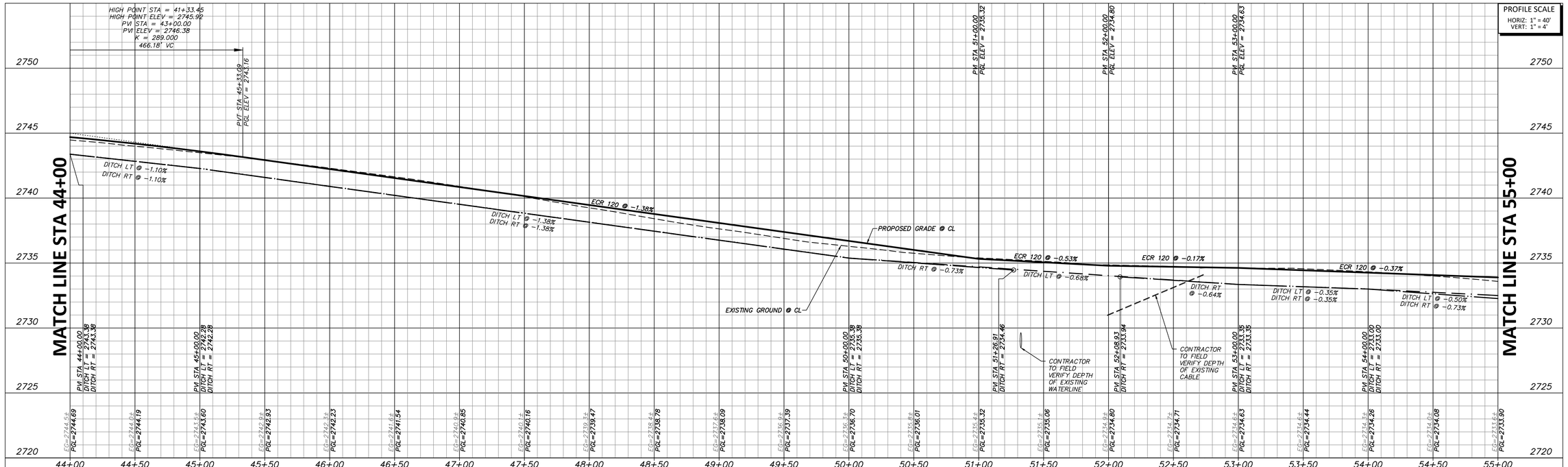
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EAST COUNTY ROAD 120

GRAPHIC SCALE IN FEET
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NO.	REVISION	BY	DATE

MMC DESIGNED
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JLB CHECKED

MIDLAND COUNTY
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SCALE
HORIZ 1" = 40'
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DUNAWAY
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Tel: 432.699.4889
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10/06/22
STATE OF TEXAS
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MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
PLAN AND PROFILE
STA 44+00 TO 55+00

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SHEET 41

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PLOTTED ON: Thursday, October 06, 2022
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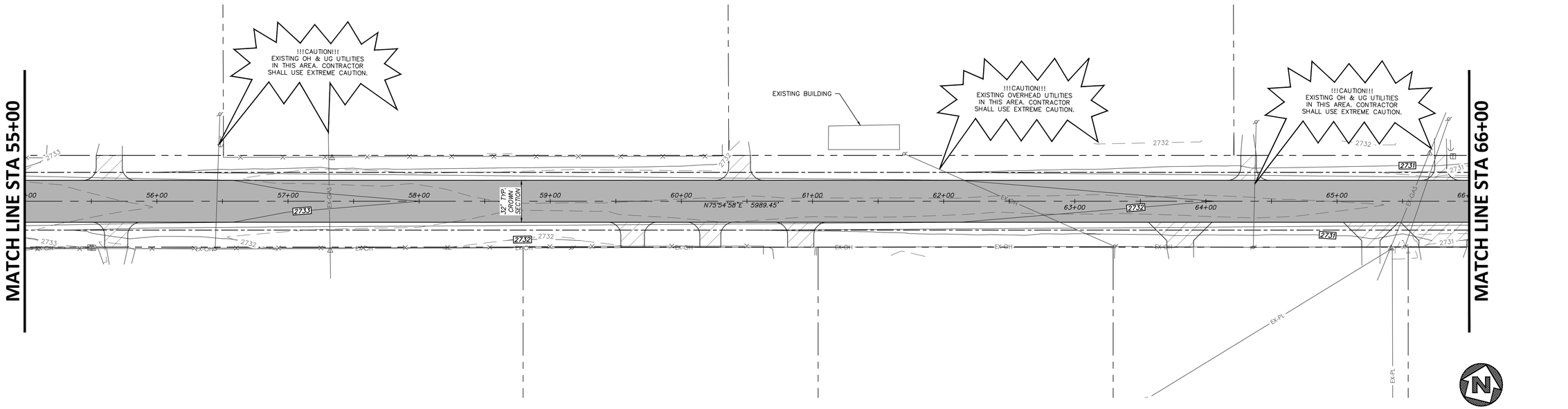
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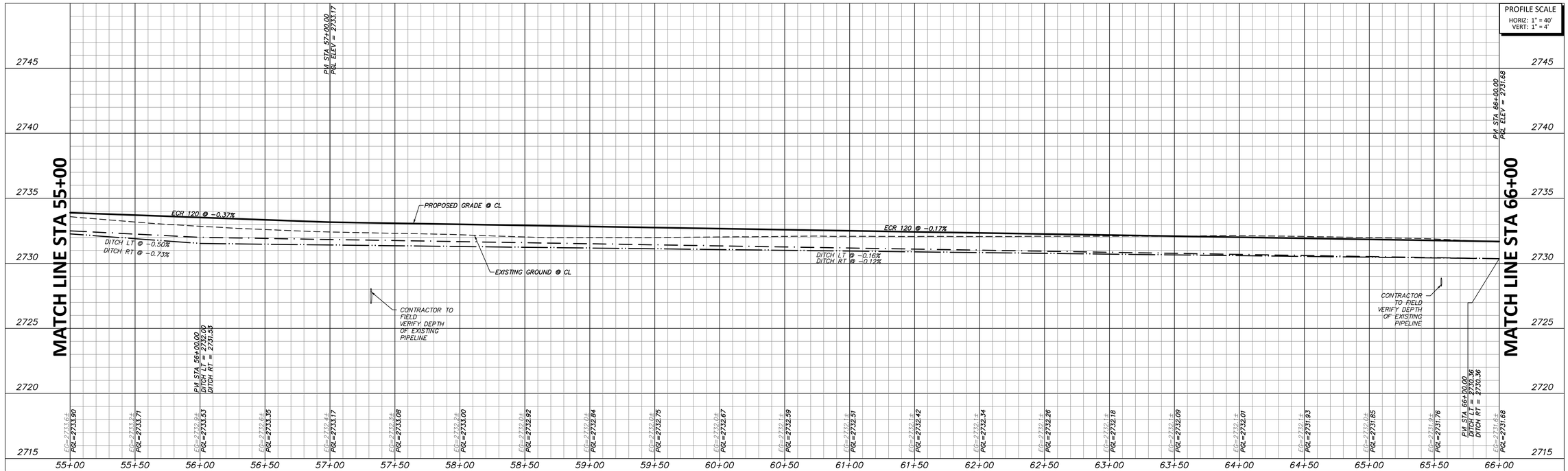
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EAST COUNTY ROAD 120

GRAPHIC SCALE IN FEET
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DUNAWAY
4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
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10/06/22
STATE OF TEXAS
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MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
PLAN AND PROFILE
STA 55+00 TO 66+00

DA PROJECT B005663.001
SHEET 42

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PLOTTED BY: Rishesh Baker
PLOTTED ON: Thursday, October 06, 2022
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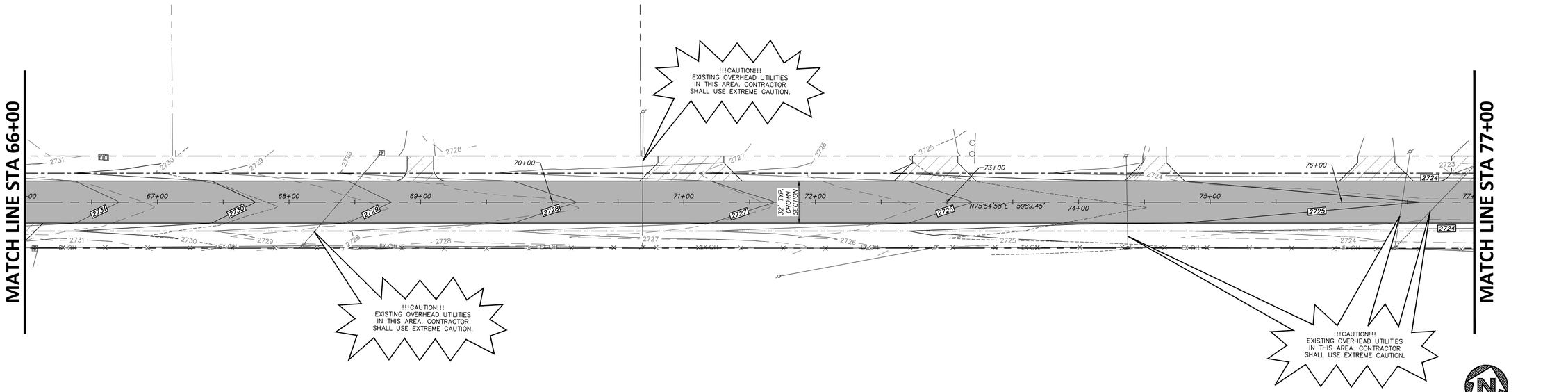
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PUBLISHED ELEVATION: 2765.53' NAVD88 DATUM

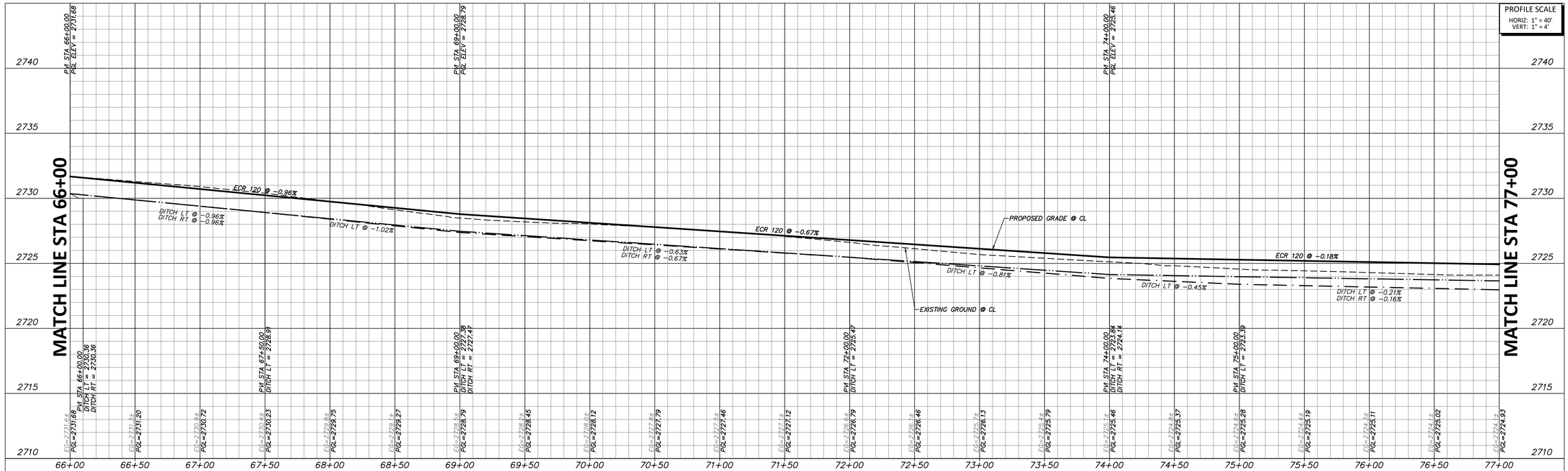
BENCHMARK NOTE:

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EAST COUNTY ROAD 120

GRAPHIC SCALE IN FEET
40 0 20 40 80



NO.	REVISION	BY	DATE

MMC DESIGNED
MMC DRAWN
JLB CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1" = 40'
VERT 1" = 4'
DATE
OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS

PLAN AND PROFILE
STA 66+00 TO 77+00

DA PROJECT B005663.001
SHEET 43

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PLOTTED BY: Rishesh Baker
PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 2:51:04 PM

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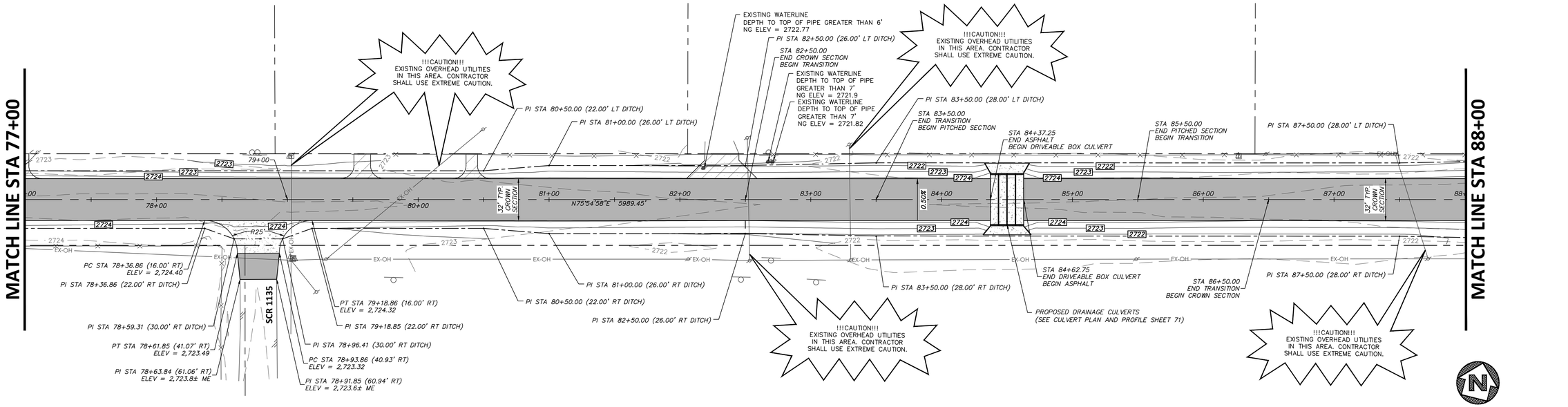
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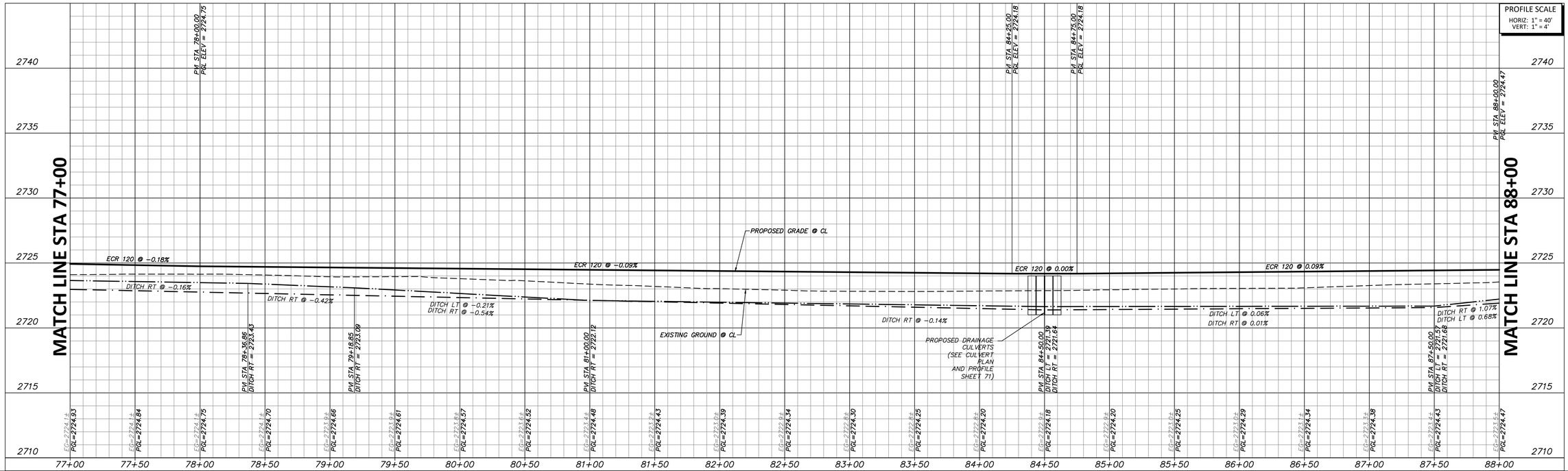
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EAST COUNTY ROAD 120

GRAPHIC SCALE IN FEET
40 0 20 40 80



NO.	REVISION	BY	DATE

MMC — DESIGNED
MMC — DRAWN
JLB — CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

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HORIZ 1" = 40'
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DATE OCTOBER 2022

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MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
PLAN AND PROFILE
STA 77+00 TO 88+00

DA PROJECT B005663.001
SHEET 44

FULL PATH: G:\Production\4000\005\05\A\S\001\Civil\Drawings\Plot Sheets\ROAD P&P.dwg
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PLOTTED BY: Rhekeh Baker
PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 2:51:21 PM

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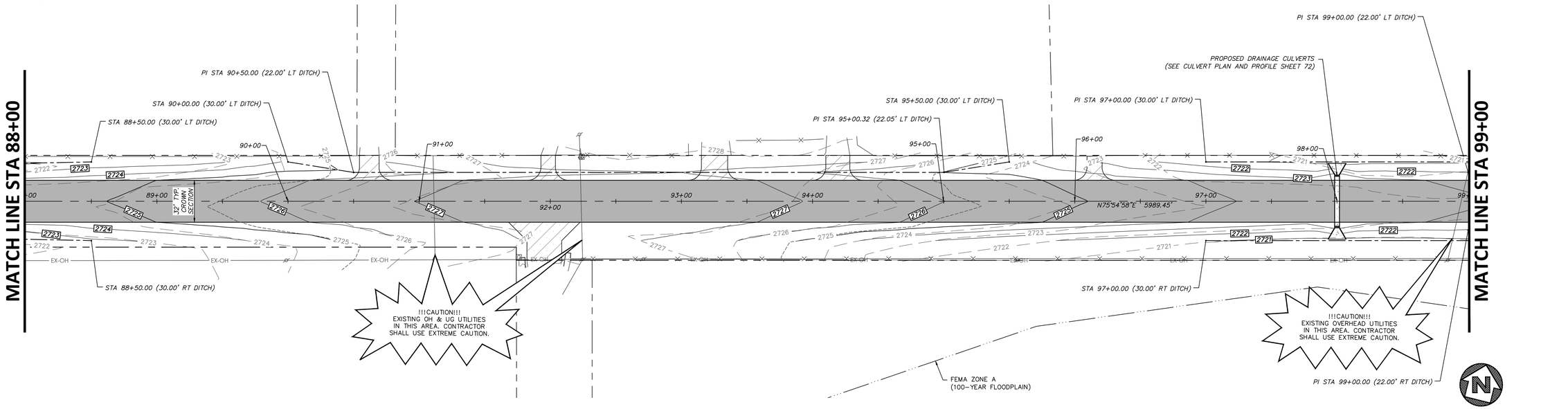
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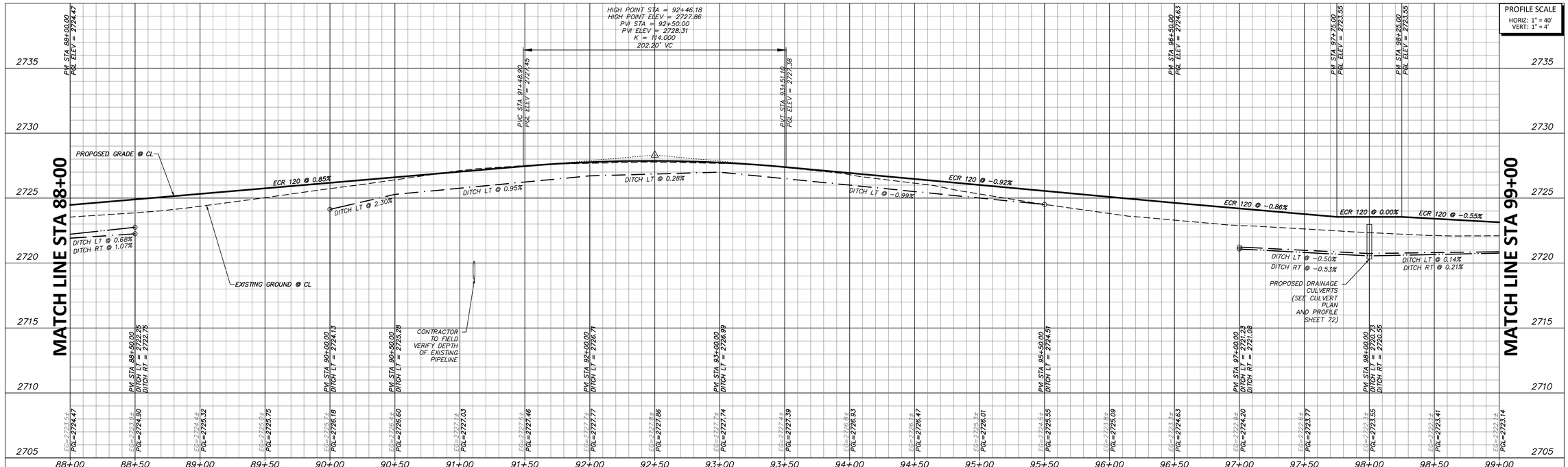
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EAST COUNTY ROAD 120

GRAPHIC SCALE IN FEET
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MIDLAND, TEXAS

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10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
PLAN AND PROFILE
STA 88+00 TO 99+00

DA PROJECT B005663.001
SHEET 45

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PLOT DATE: Thursday, October 06, 2022
PLOTTED AT: 2:51:37 PM

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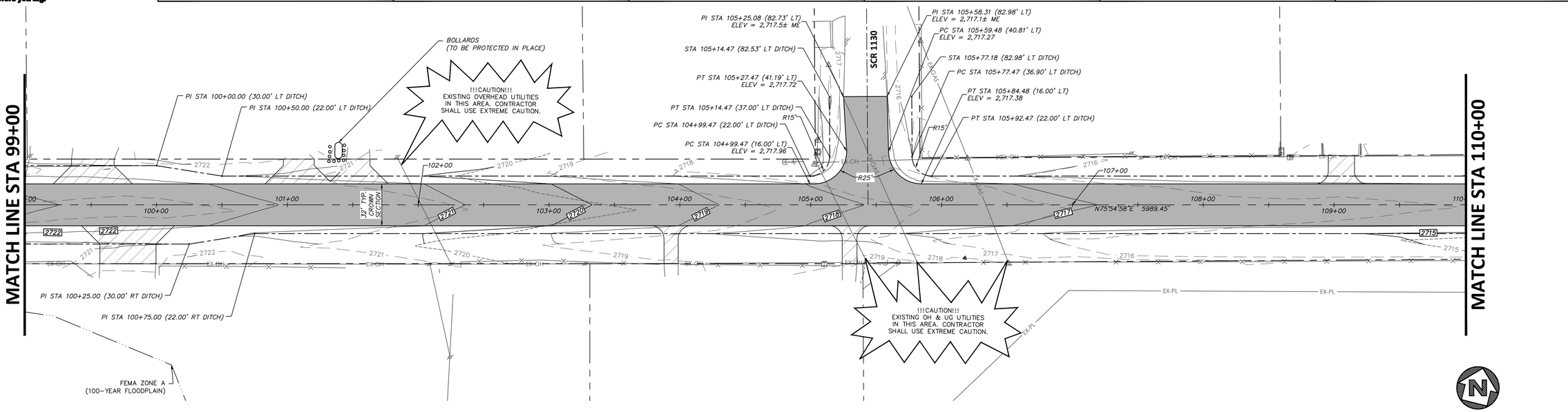
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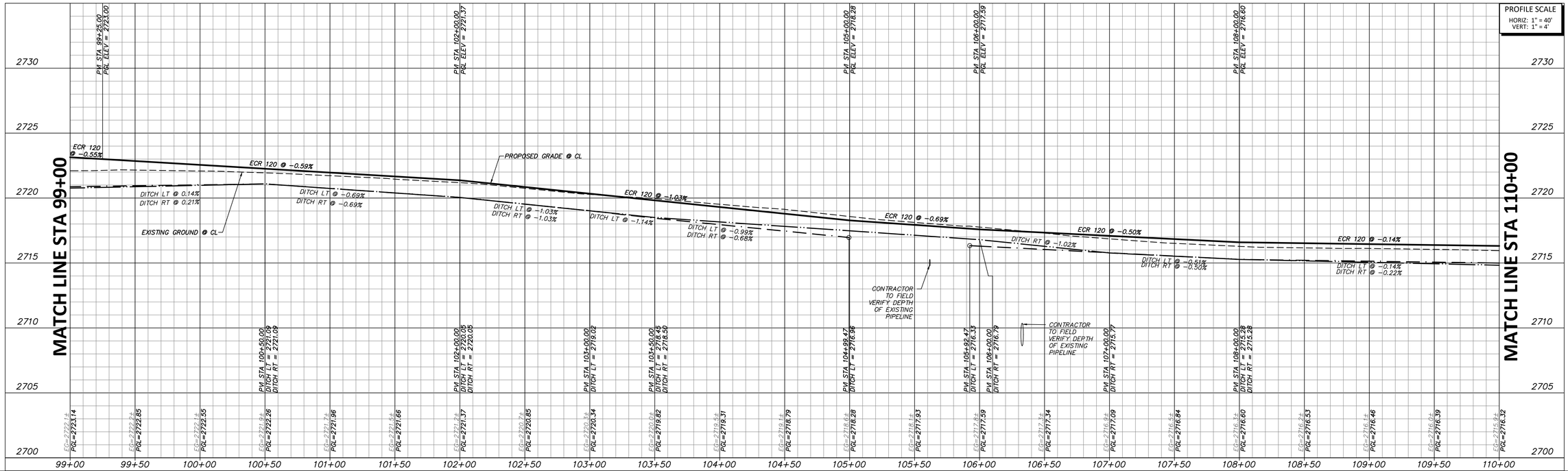
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EAST COUNTY ROAD 120

GRAPHIC SCALE IN FEET
40 0 20 40 80



NO.	REVISION	BY	DATE

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MIDLAND COUNTY
MIDLAND, TEXAS

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10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
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MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
PLAN AND PROFILE
STA 99+00 TO 110+00

DA PROJECT B005663.001
SHEET 46

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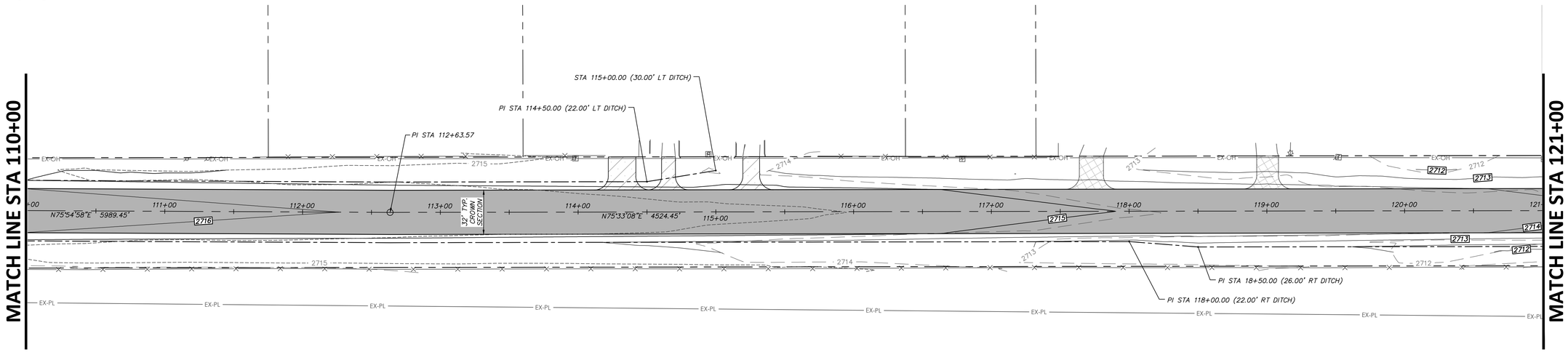
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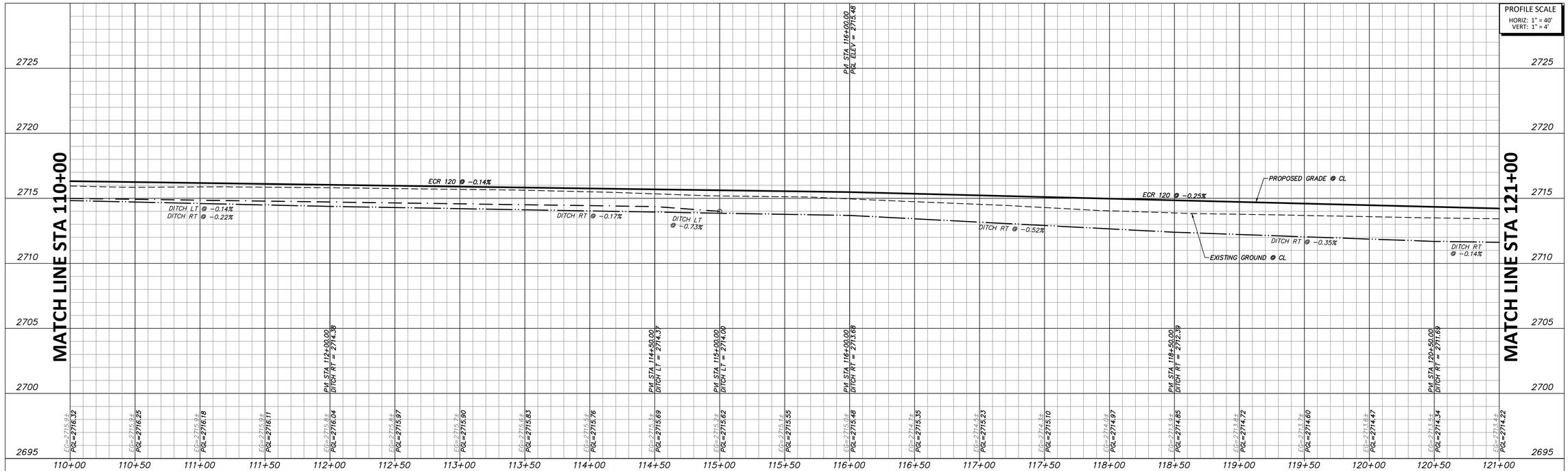
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EAST COUNTY ROAD 120

GRAPHIC SCALE IN FEET
40 0 20 40 80



NO.	REVISION	BY	DATE

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MIDLAND COUNTY
MIDLAND, TEXAS

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
PLAN AND PROFILE
STA 110+00 TO 121+00

DA PROJECT B005663.001
SHEET 47

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PLOTTED BY: Rishesh Baker
PLOTTED ON: Wednesday, October 06, 2022
PLOTTED AT: 2:52:08 PM

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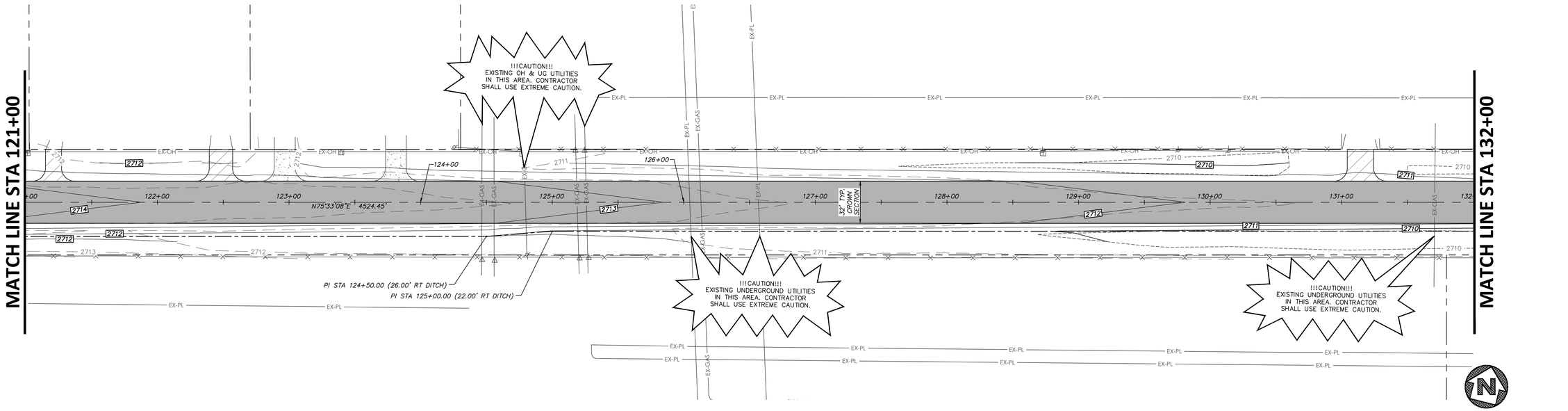
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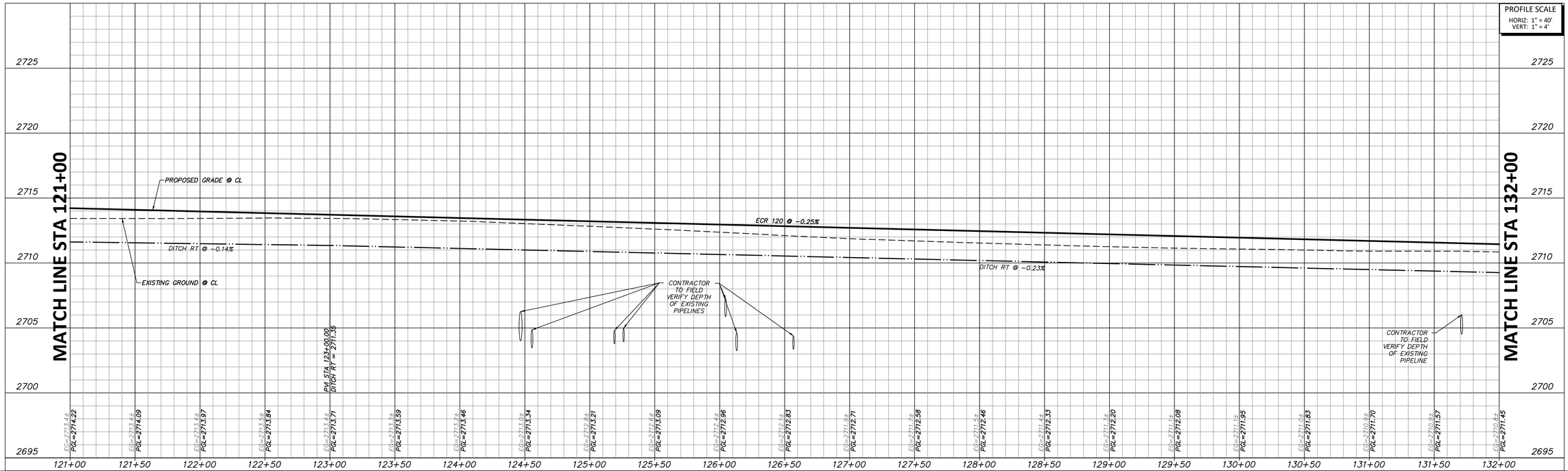
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10/06/22
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MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
PLAN AND PROFILE
STA 121+00 TO 132+00

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SHEET 48

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PLOTTED ON: Thursday, October 06, 2022
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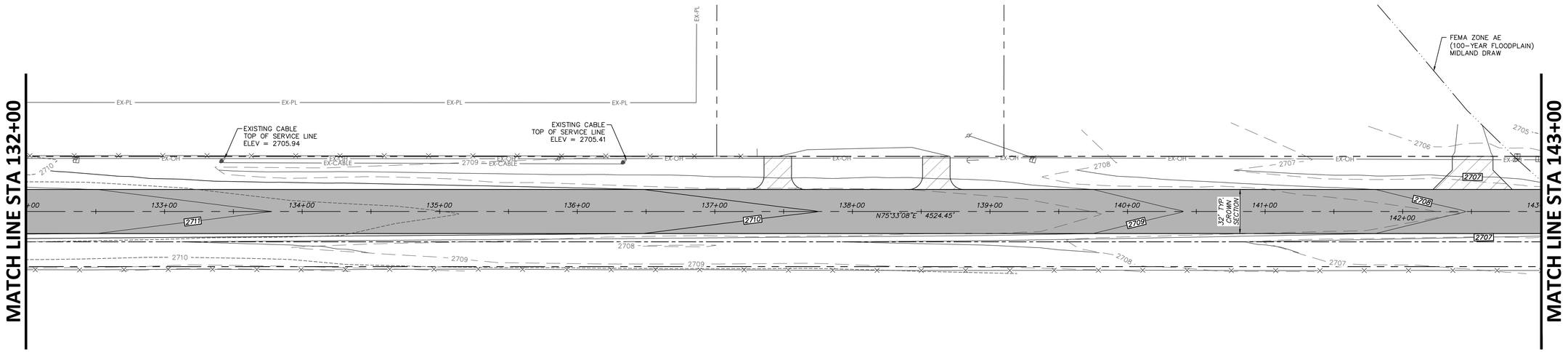
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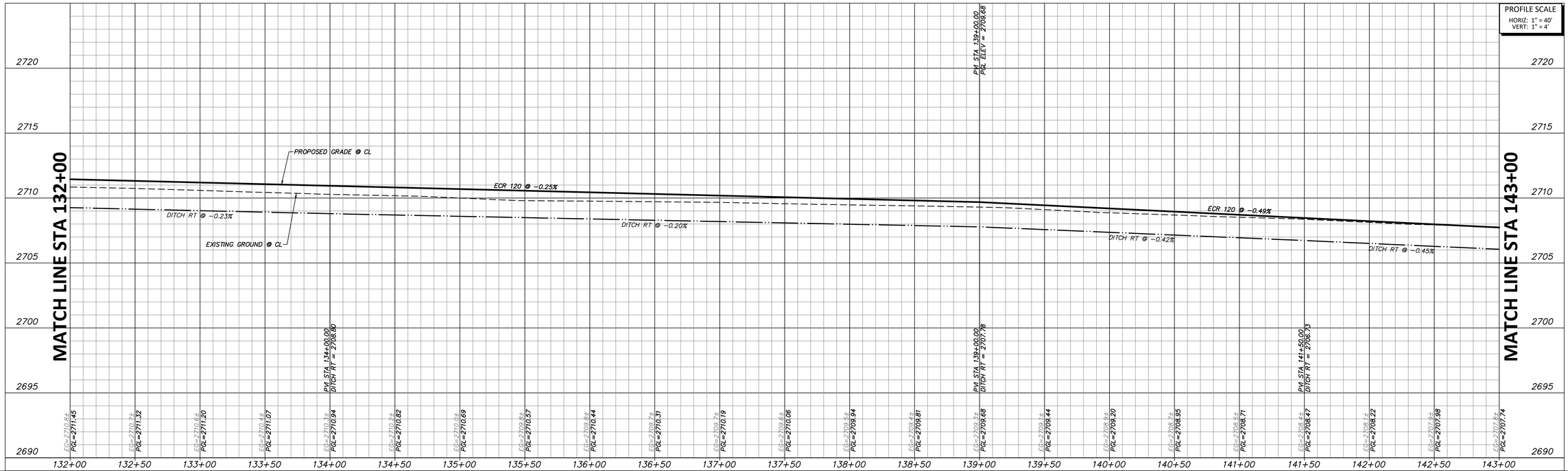
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MIDLAND COUNTY, TEXAS
PLAN AND PROFILE
STA 132+00 TO 143+00

DA PROJECT
B005663.001
SHEET
49

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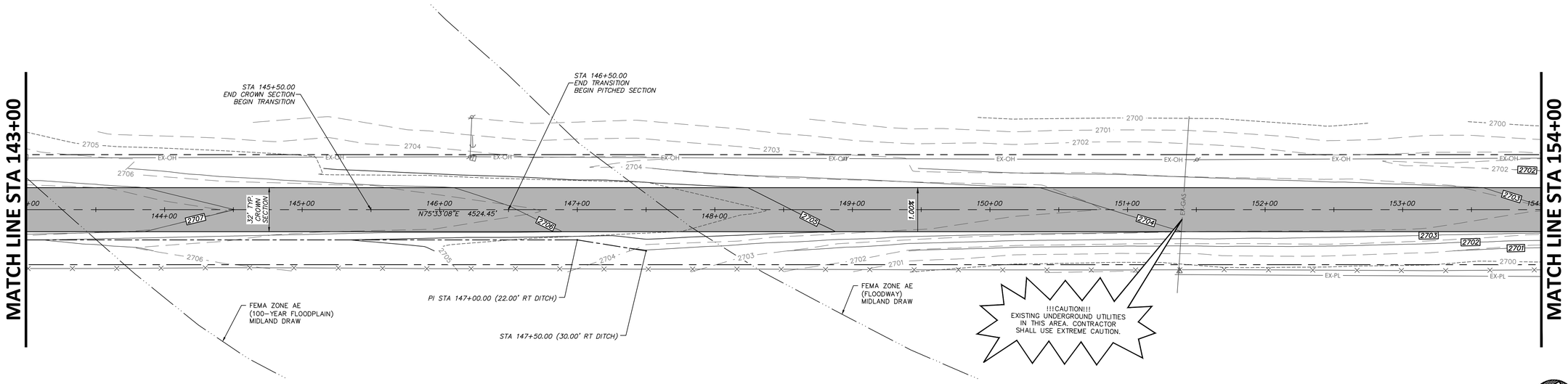
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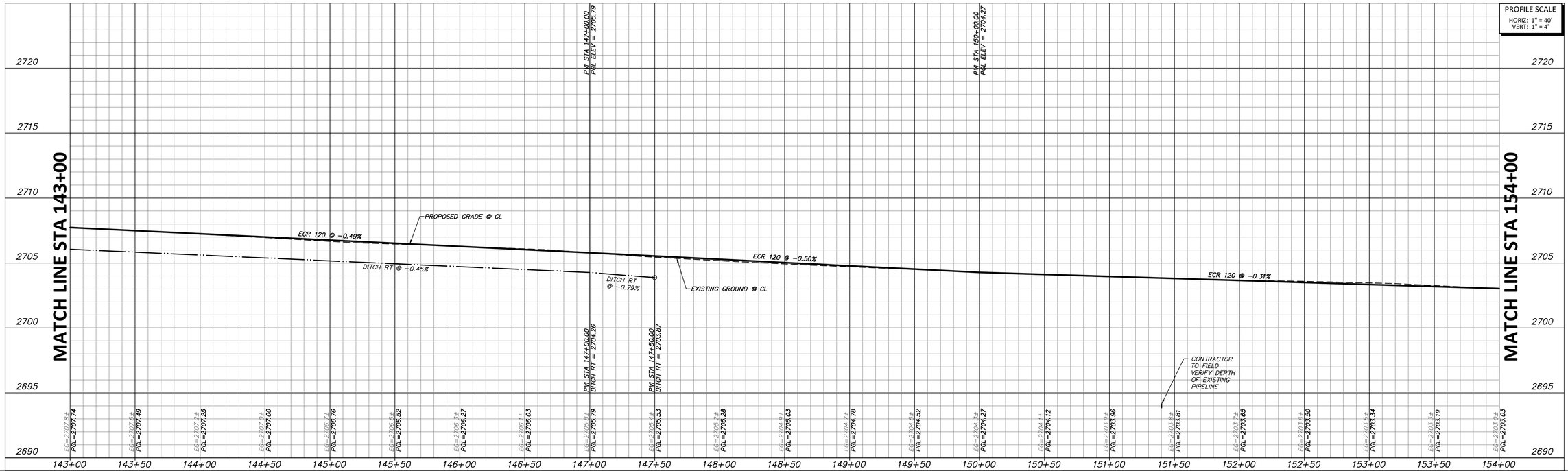
BENCHMARK NOTE:

SEE GENERAL NOTES (SHEET 1) FOR DETAILS.



EAST COUNTY ROAD 120

GRAPHIC SCALE IN FEET
40 0 20 40 80



NO.	REVISION	BY	DATE

MMC DESIGNED
MMC DRAWN
JLB CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1" = 40'
VERT 1" = 4'
DATE
OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS

PLAN AND PROFILE
STA 143+00 TO 154+00

DA PROJECT B005663.001
SHEET 50

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PLOTTED BY: Rishesh Baxter
PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 2:52:53 PM

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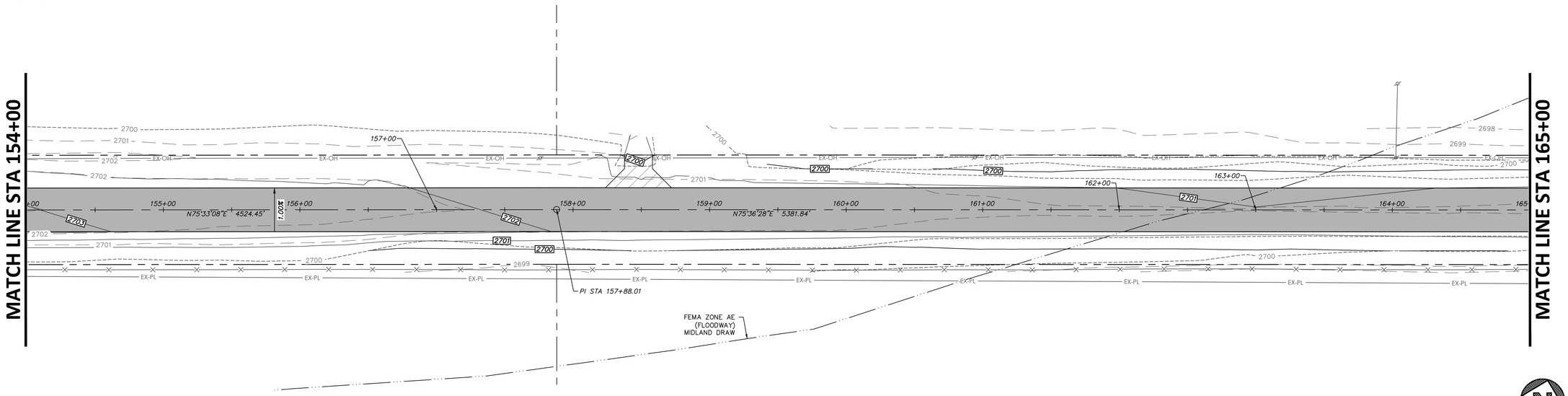
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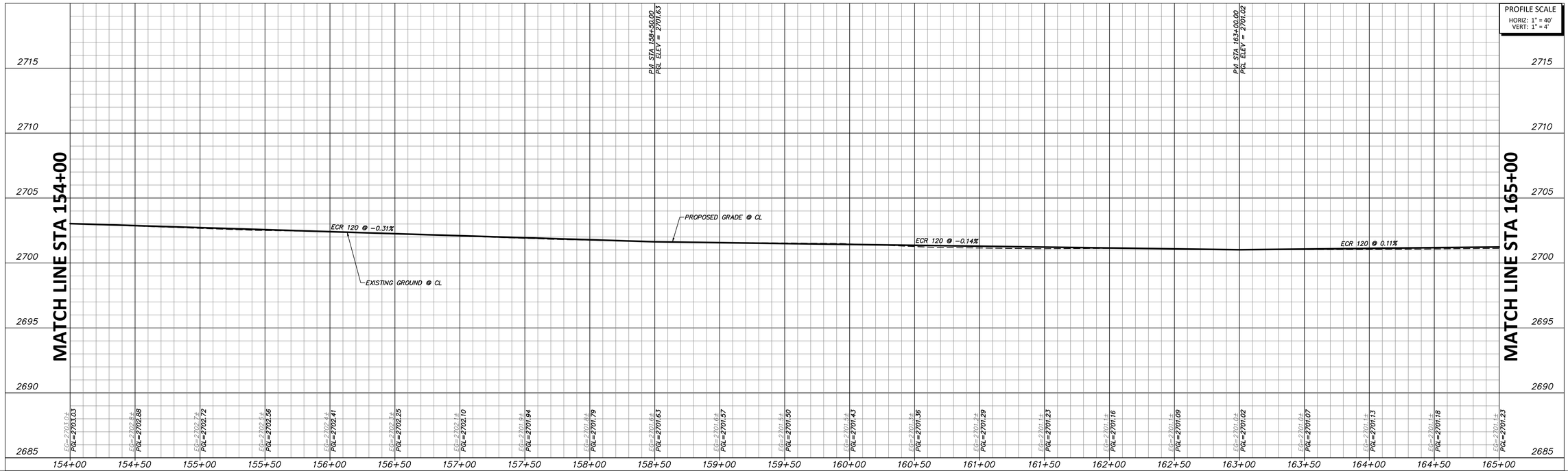
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EAST COUNTY ROAD 120

GRAPHIC SCALE IN FEET
40 0 20 40 80



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MIDLAND COUNTY
MIDLAND, TEXAS

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10/06/22
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PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
PLAN AND PROFILE
STA 154+00 TO 165+00

DA PROJECT
B005663.001

SHEET
51

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PLOTTED BY: Rishesh Bajar
PLOTTED ON: October 06, 2022
PLOTTED AT: 2:53:08 PM

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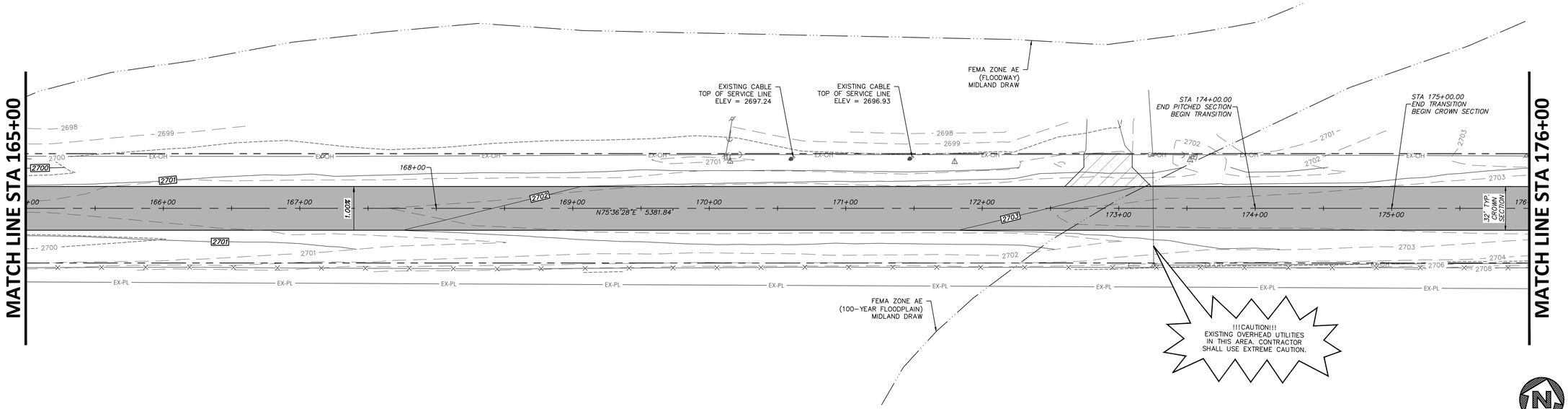
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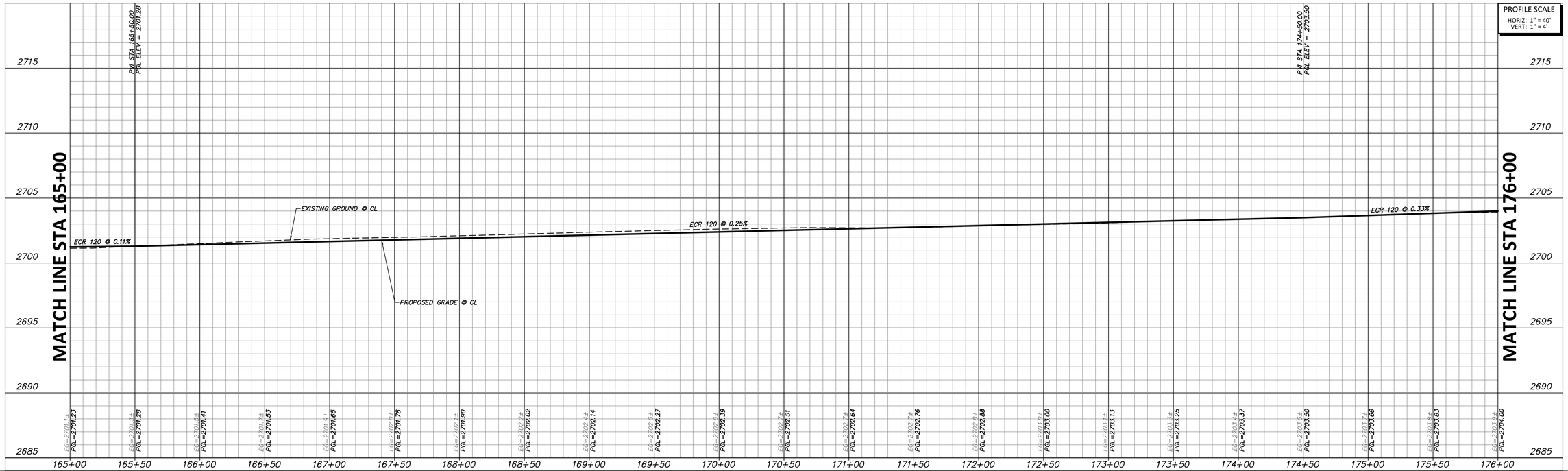
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EAST COUNTY ROAD 120

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MIDLAND, TEXAS

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10/06/22
STATE OF TEXAS
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102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
PLAN AND PROFILE
STA 165+00 TO 176+00

DA PROJECT B005663.001
SHEET 52

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PLOTTED BY: Rishesh Bajar
PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 2:53:23 PM

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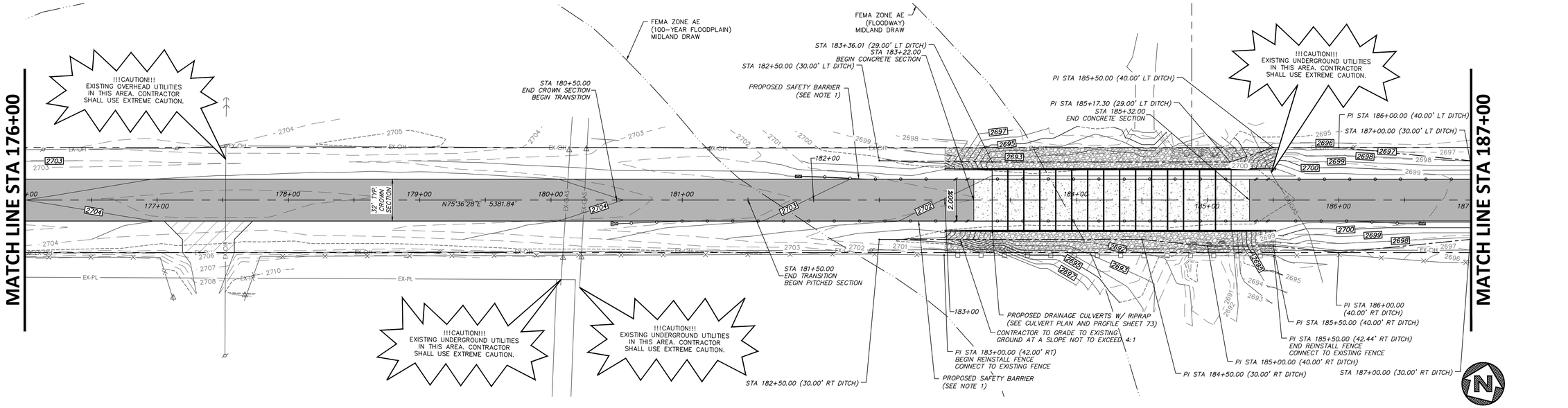
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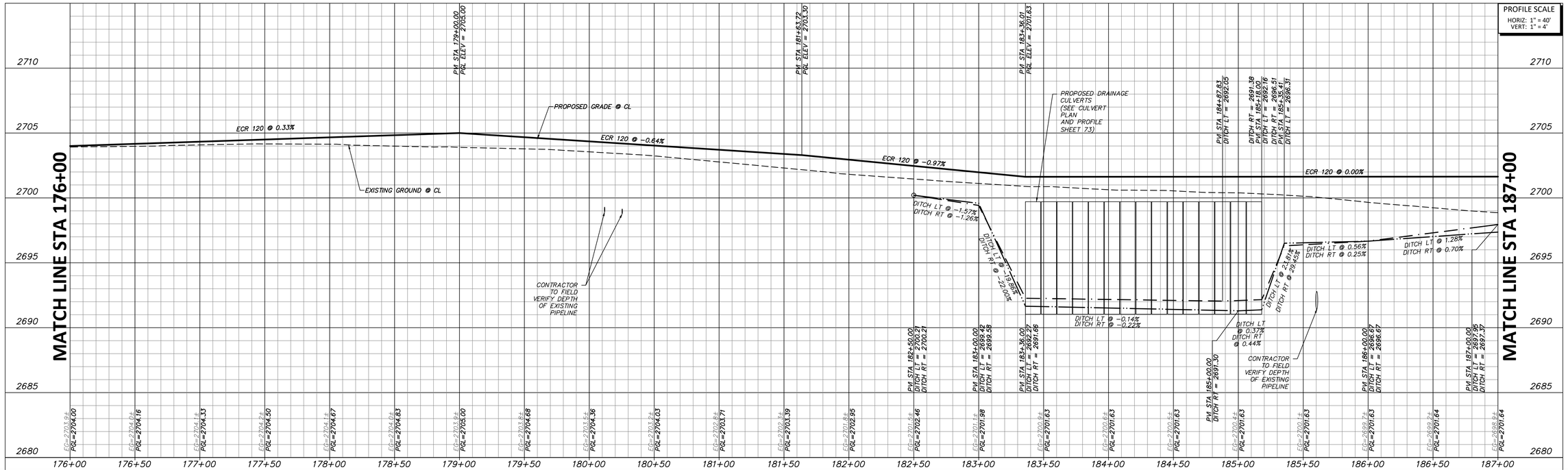
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NOTE:
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2. CONTRACTOR TO INSTALL SAFETY BARRIER POSTS IN TANDEM WITH CULVERT INSTALLATION.

EAST COUNTY ROAD 120

GRAPHIC SCALE IN FEET
40 0 20 40 80



NO.	REVISION	BY	DATE

MMC DESIGNED
MMC DRAWN
JLB CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
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10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
PLAN AND PROFILE
STA 176+00 TO 187+00

DA PROJECT B005663.001
SHEET 53

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PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 2:53:40 PM

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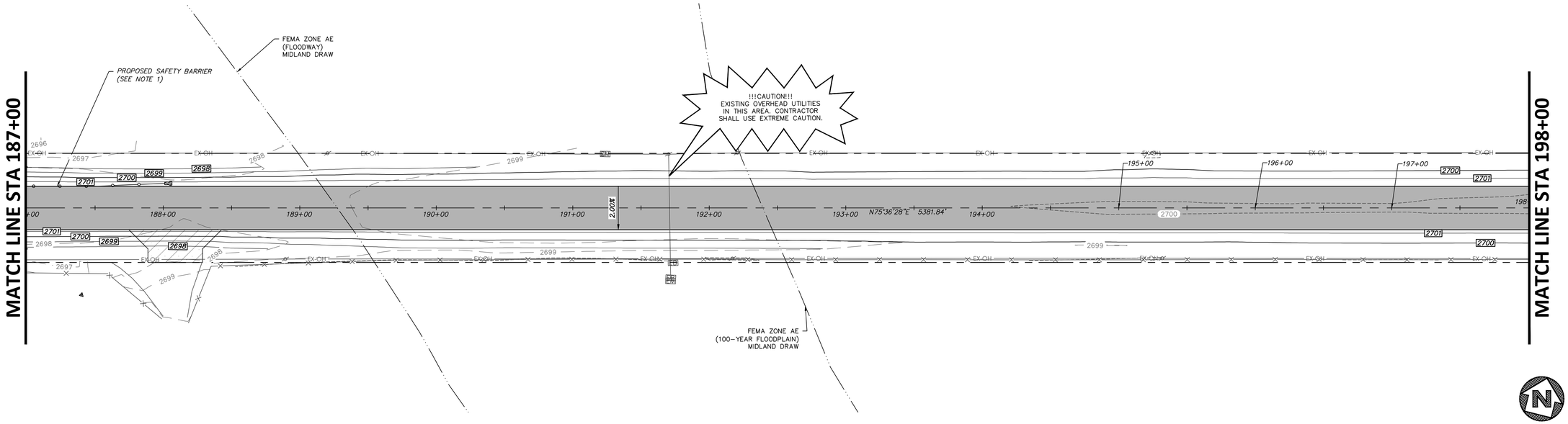
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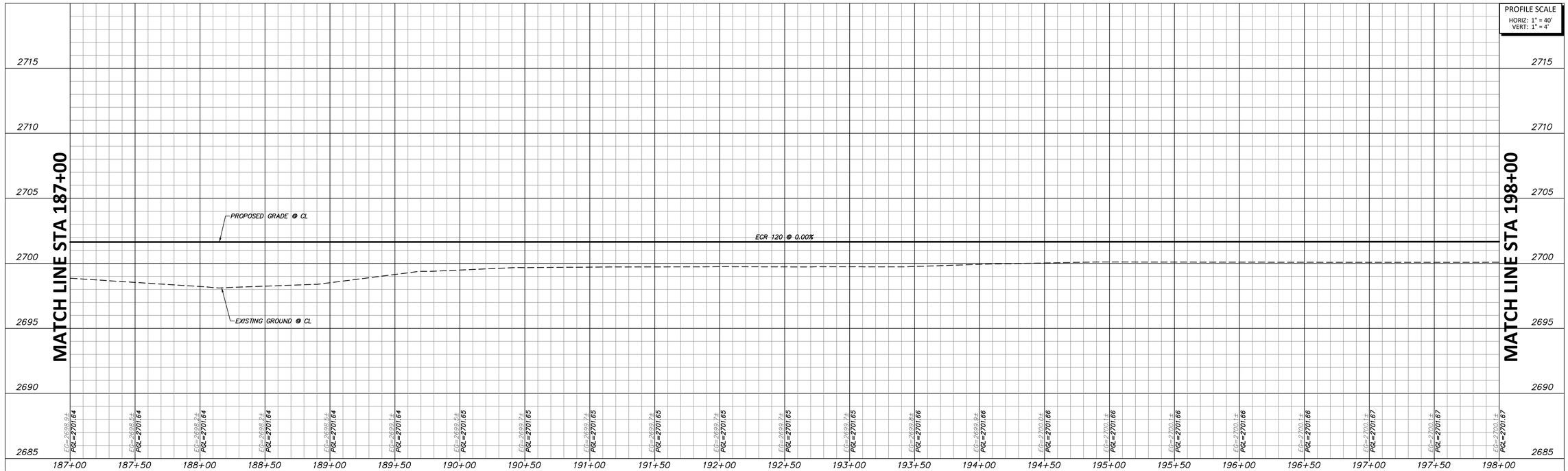
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EAST COUNTY ROAD 120

GRAPHIC SCALE IN FEET
40 0 20 40 80



NO.	REVISION	BY	DATE

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JLB — CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

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10/06/22
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MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
PLAN AND PROFILE
STA 187+00 TO 198+00

DA PROJECT B005663.001
SHEET 54

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PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 2:53:58 PM

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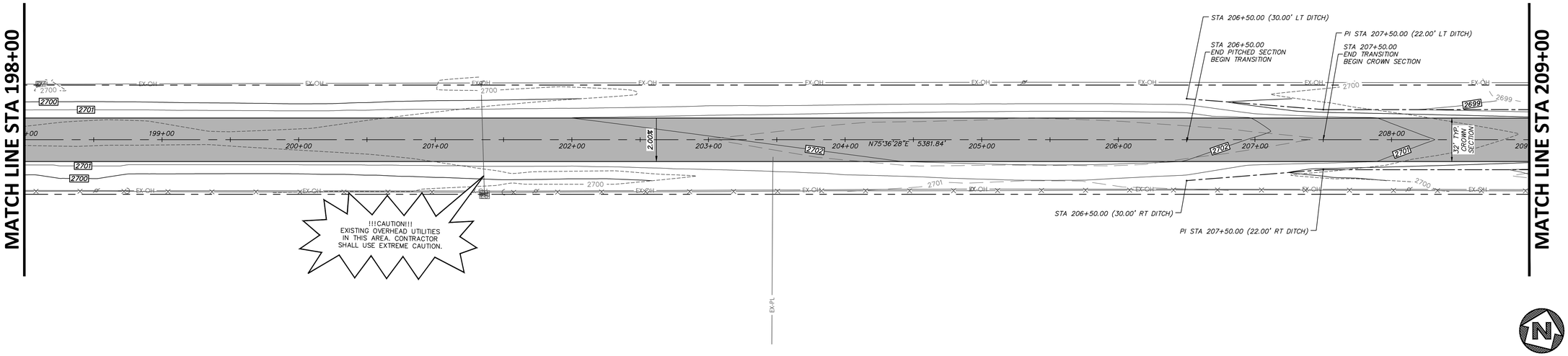
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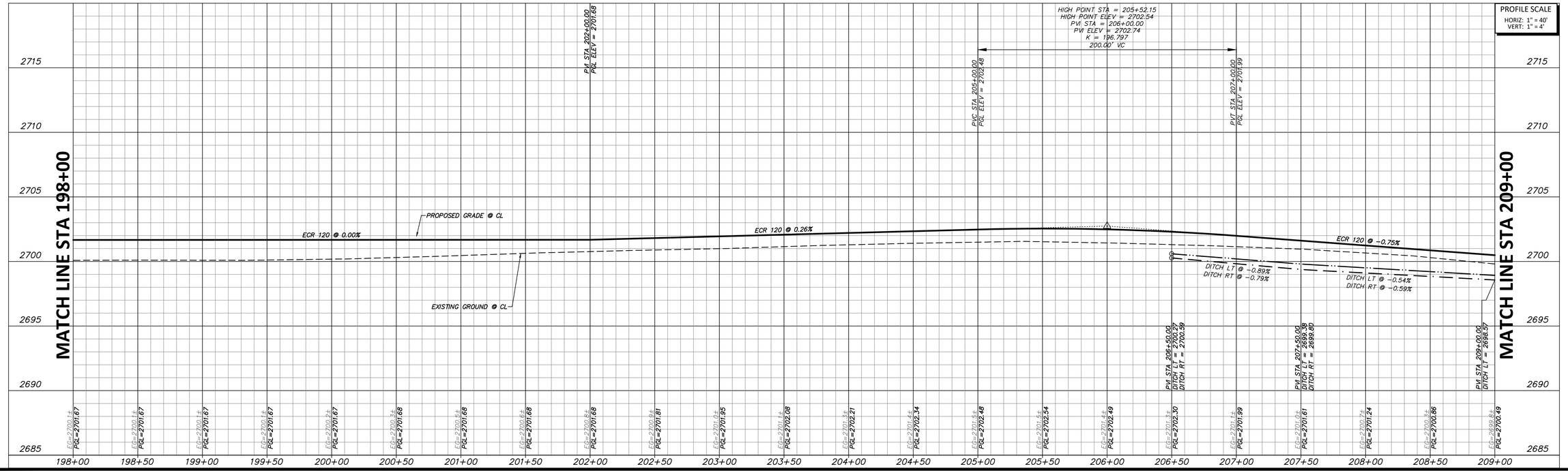
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EAST COUNTY ROAD 120

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EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
PLAN AND PROFILE
STA 198+00 TO 209+00

DA PROJECT B005663.001
SHEET 55

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PLOTTED ON: October 06, 2022
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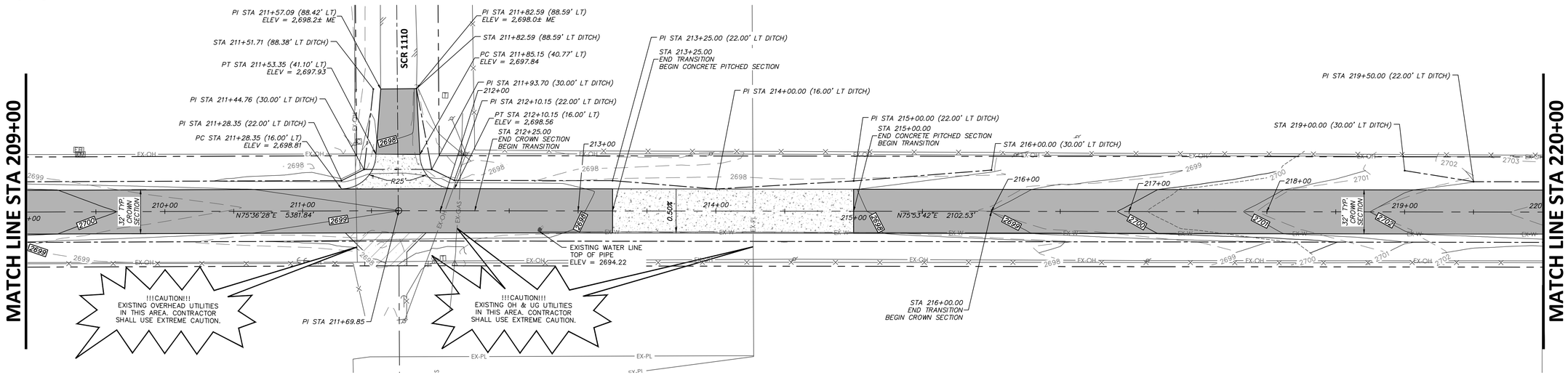
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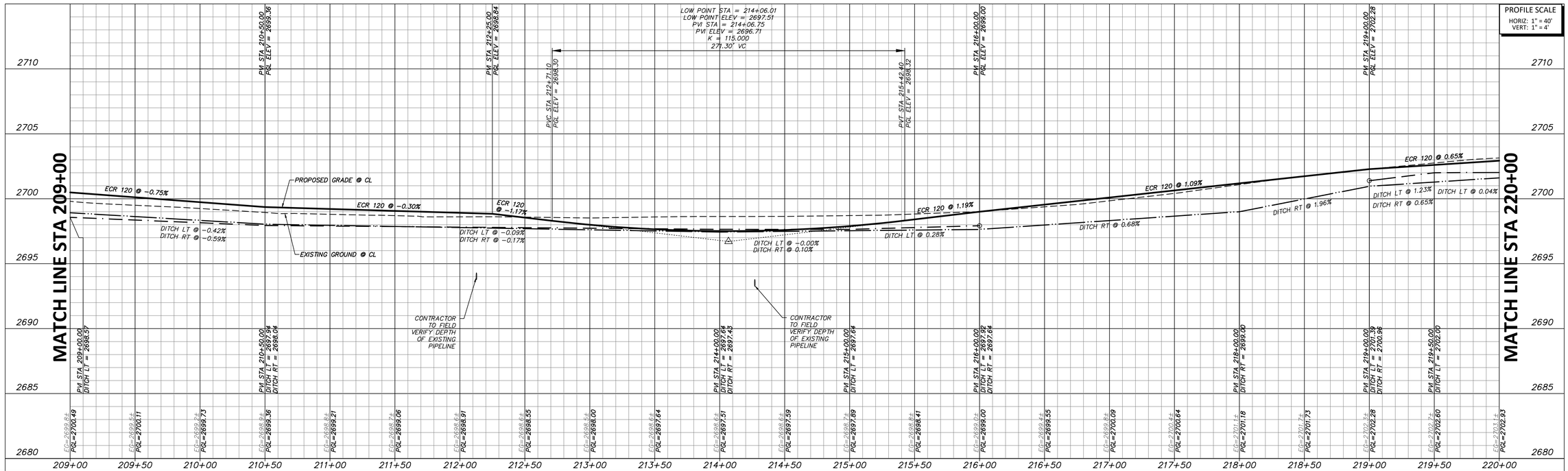
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10/06/22
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MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
PLAN AND PROFILE
STA 209+00 TO 220+00

DA PROJECT
B005663.001
SHEET
56

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PLOTTED BY: Rhetwin Baker
PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 2:54:26 PM

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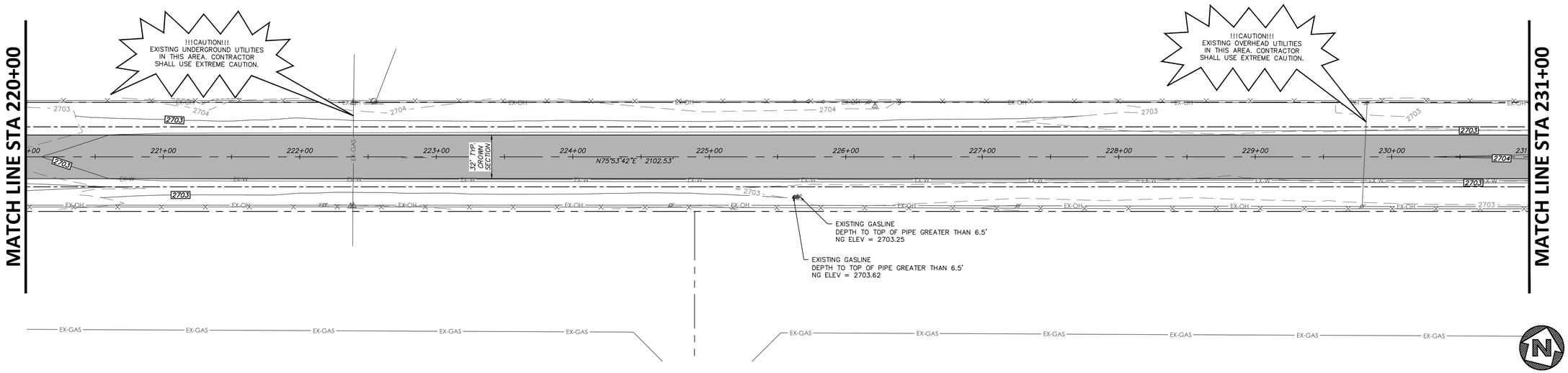
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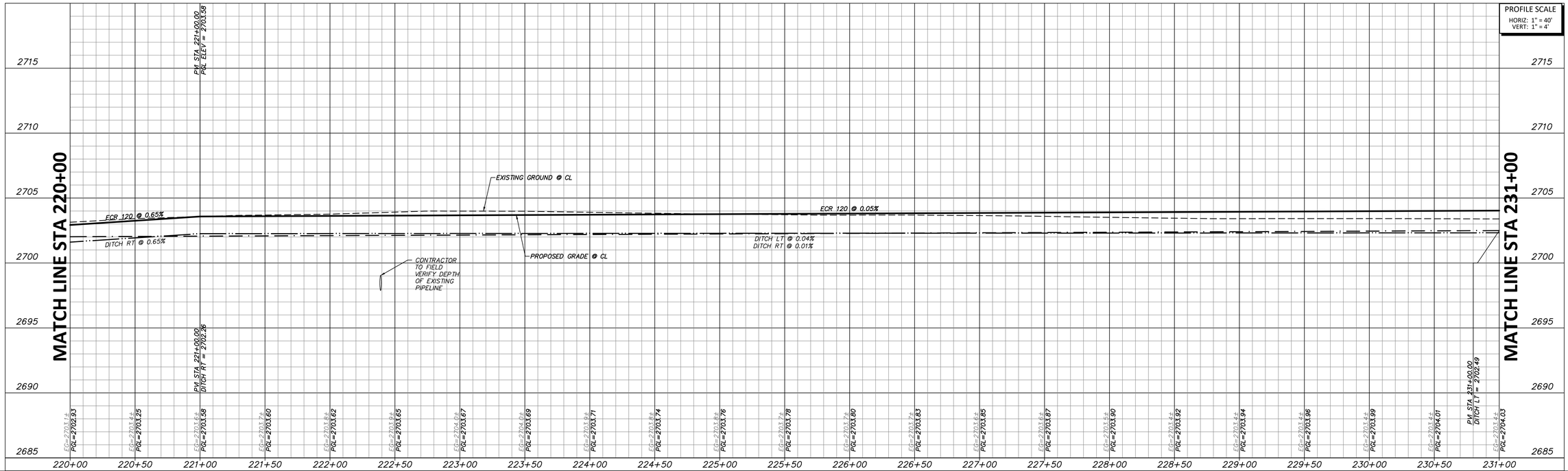
BENCHMARK NOTE:

SEE GENERAL NOTES (SHEET 1) FOR DETAILS.



EAST COUNTY ROAD 120

GRAPHIC SCALE IN FEET
40 0 20 40 80



NO.	REVISION	BY	DATE

MMC — DESIGNED
MMC — DRAWN
JLB — CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1" = 40'
VERT 1" = 4'
DATE
OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
PLAN AND PROFILE
STA 220+00 TO 231+00

DA PROJECT
B005663.001
SHEET
57

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PLOTTED BY: Rishesh Baker
PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 2:54:42 PM

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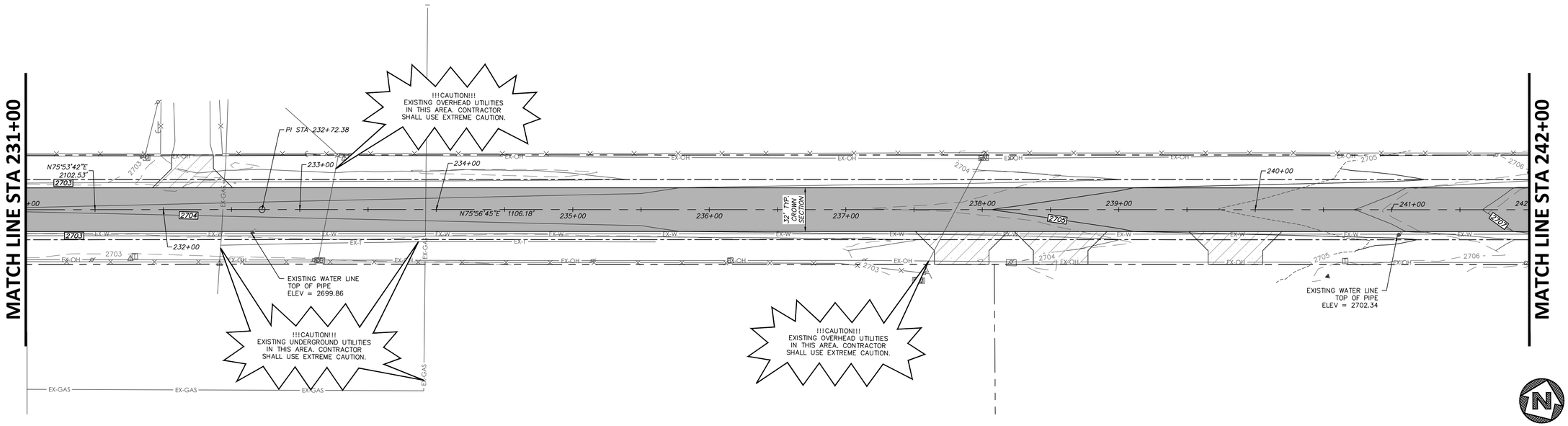
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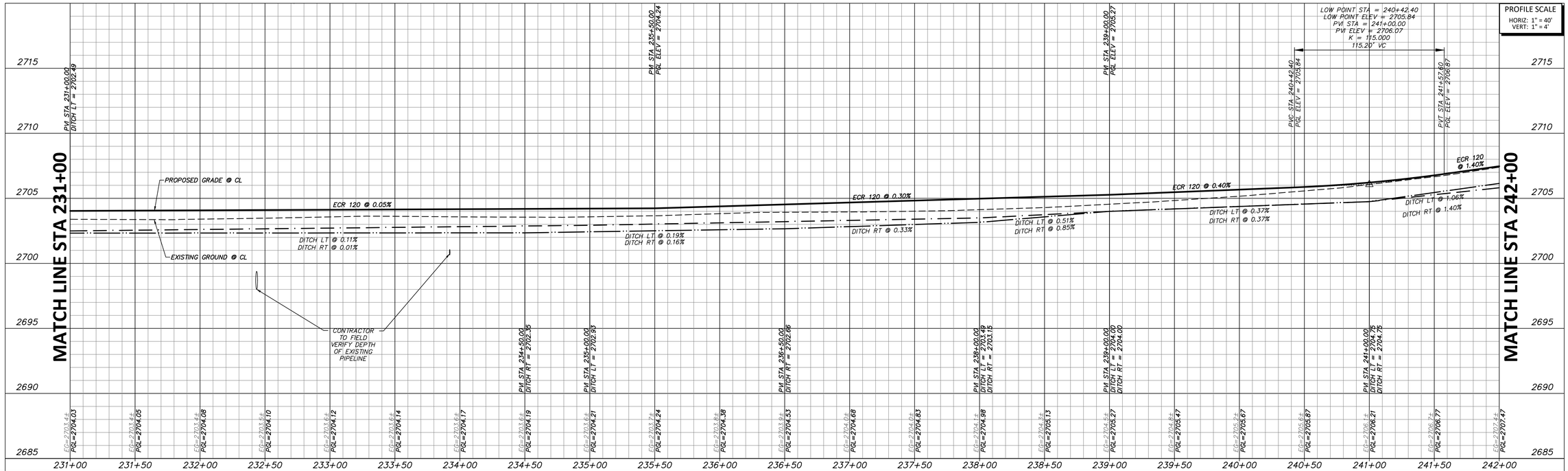
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EAST COUNTY ROAD 120

GRAPHIC SCALE IN FEET
40 0 20 40 80



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MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
PLAN AND PROFILE
STA 231+00 TO 242+00

DA PROJECT B005663.001
SHEET 58

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PLOTTED BY: Rishesh Baker
PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 2:54:57 PM

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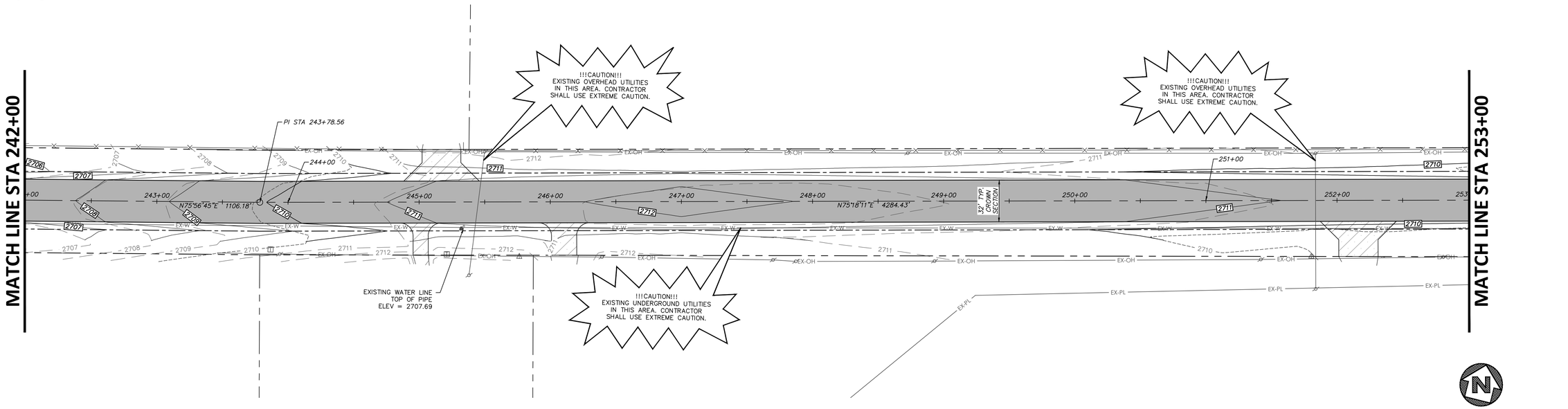
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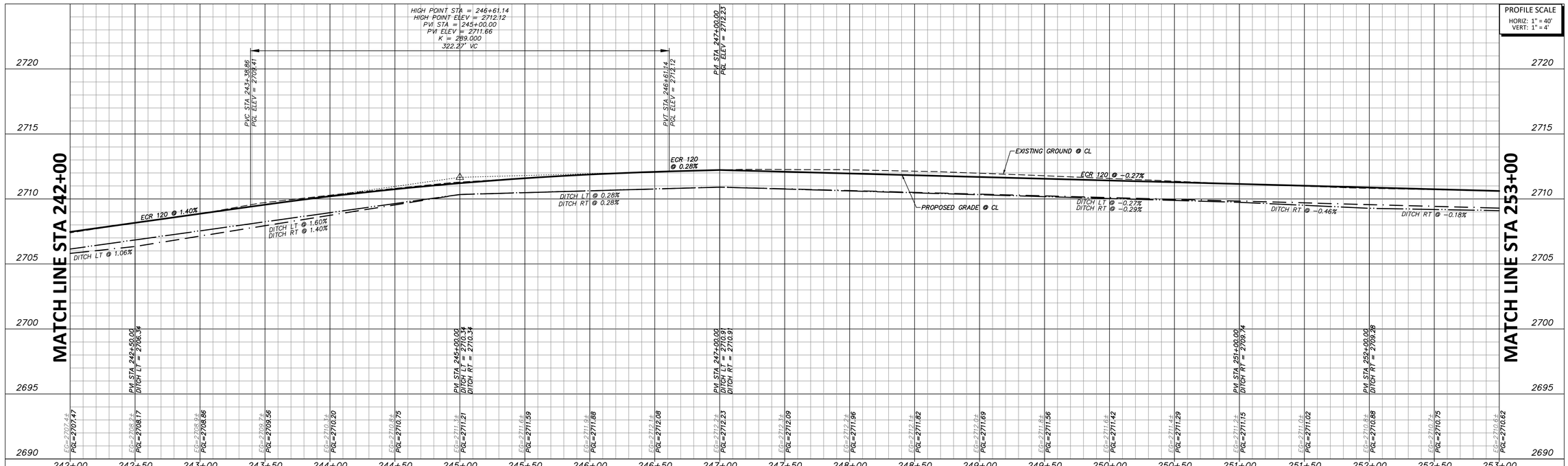
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EAST COUNTY ROAD 120

GRAPHIC SCALE IN FEET
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10/06/22
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102960
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PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
PLAN AND PROFILE
STA 242+00 TO 253+00

DA PROJECT B005663.001
SHEET 59

FULL PATH: G:\Production\400\000\005\045\001\Civil\Drawings\Plot Sheets\ROAD P&P.dwg
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PLOTTED BY: Rhekeh Baker
PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 2:55:11 PM

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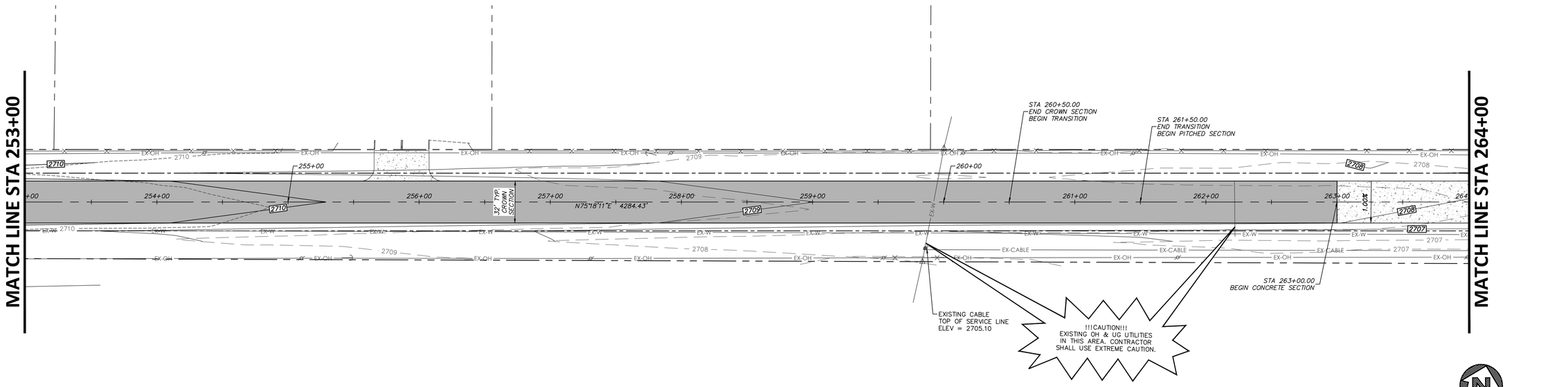
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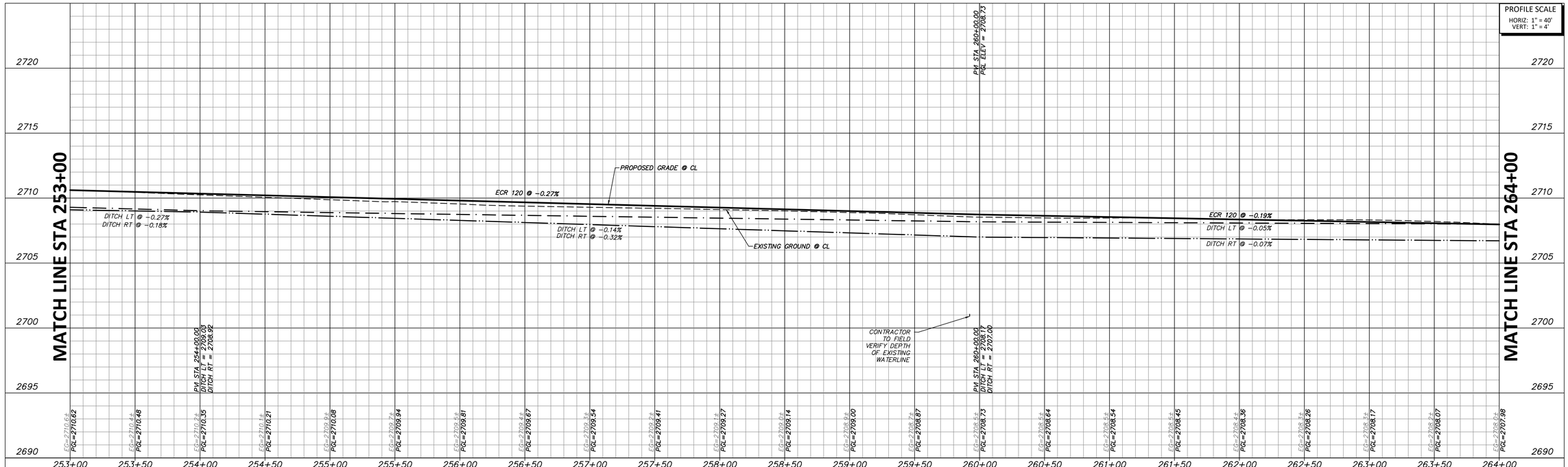
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EAST COUNTY ROAD 120

GRAPHIC SCALE IN FEET
40 0 20 40 80



NO.	REVISION	BY	DATE

MMC DESIGNED
MMC DRAWN
JLB CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

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4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
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10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
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LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
PLAN AND PROFILE
STA 253+00 TO 264+00

DA PROJECT B005663.001
SHEET 60

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PLOTTED BY: Rebekah Baker
PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 2:55:25 PM

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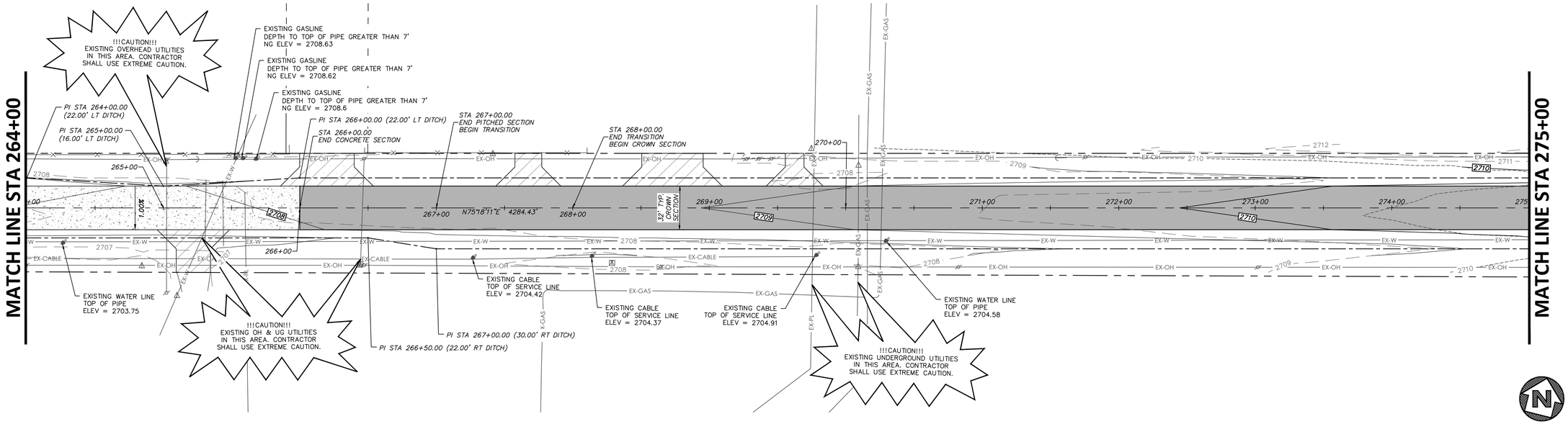
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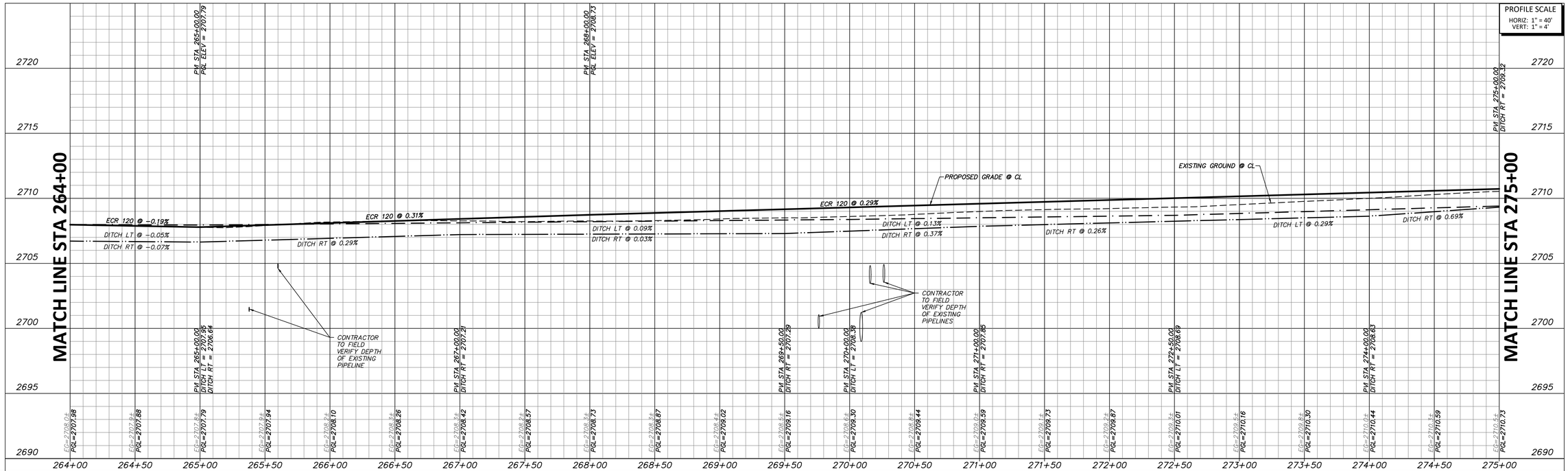
BENCHMARK NOTE:

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EAST COUNTY ROAD 120

GRAPHIC SCALE IN FEET
40 0 20 40 80



NO.	REVISION	BY	DATE

MMC — DESIGNED
MMC — DRAWN
JLB — CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1" = 40'
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DATE
OCTOBER 2022

DUNAWAY
4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
Tel: 432.699.4889
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10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
PLAN AND PROFILE
STA 264+00 TO 275+00

DA PROJECT B005663.001
SHEET 61

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PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 2:55:43 PM

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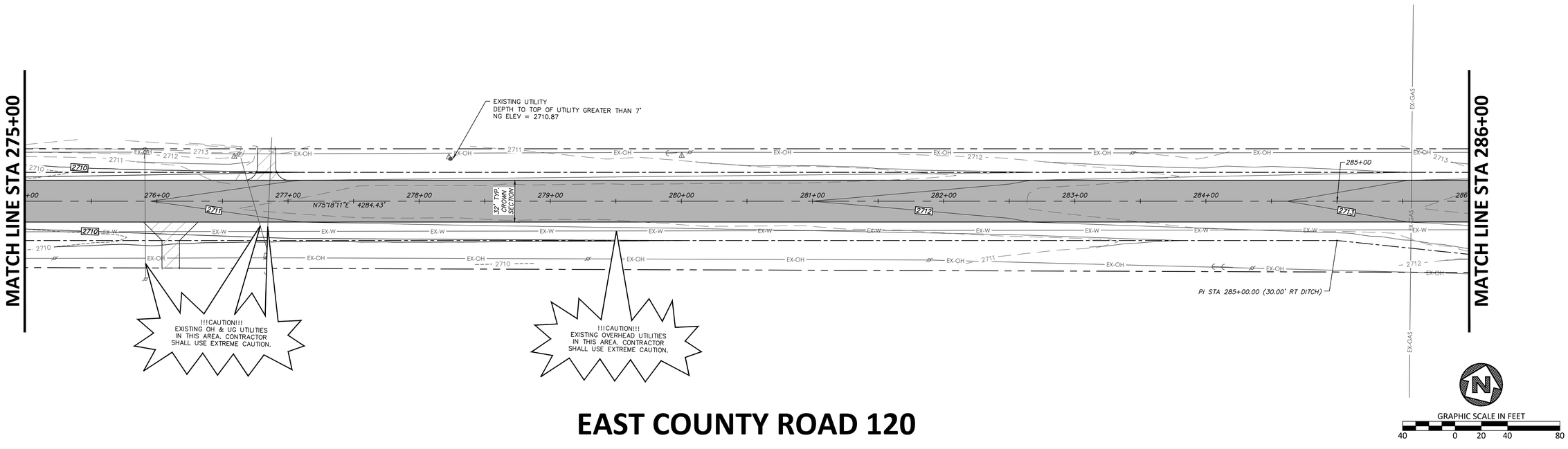
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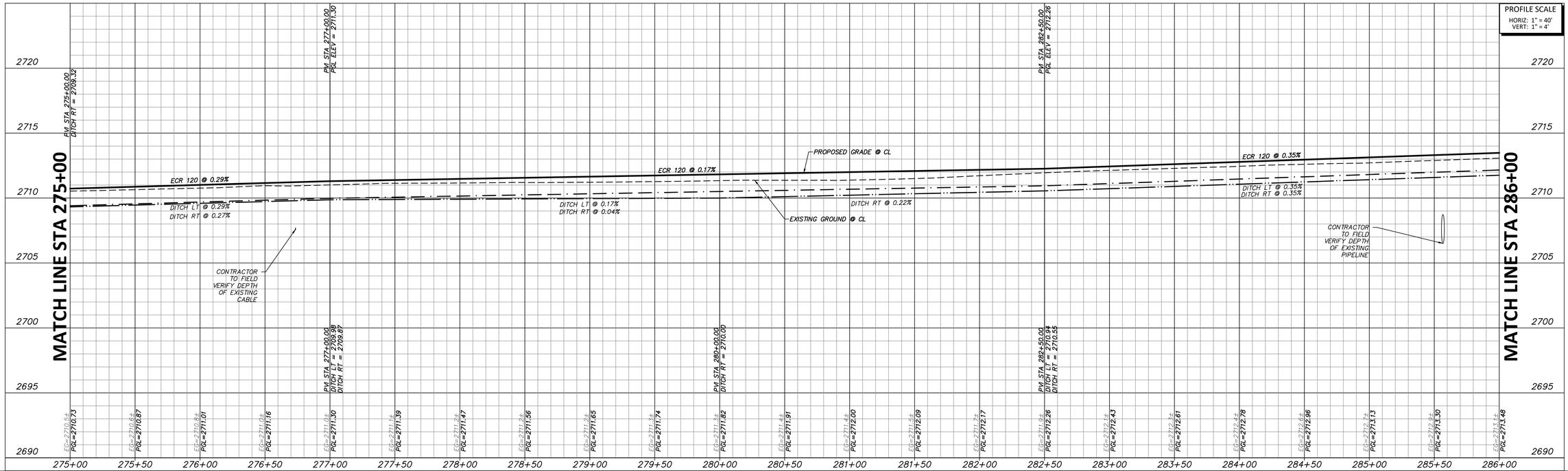
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EAST COUNTY ROAD 120

GRAPHIC SCALE IN FEET
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MIDLAND, TEXAS

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4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
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10/06/22
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MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
PLAN AND PROFILE
STA 275+00 TO 286+00

DA PROJECT B005663.001
SHEET 62

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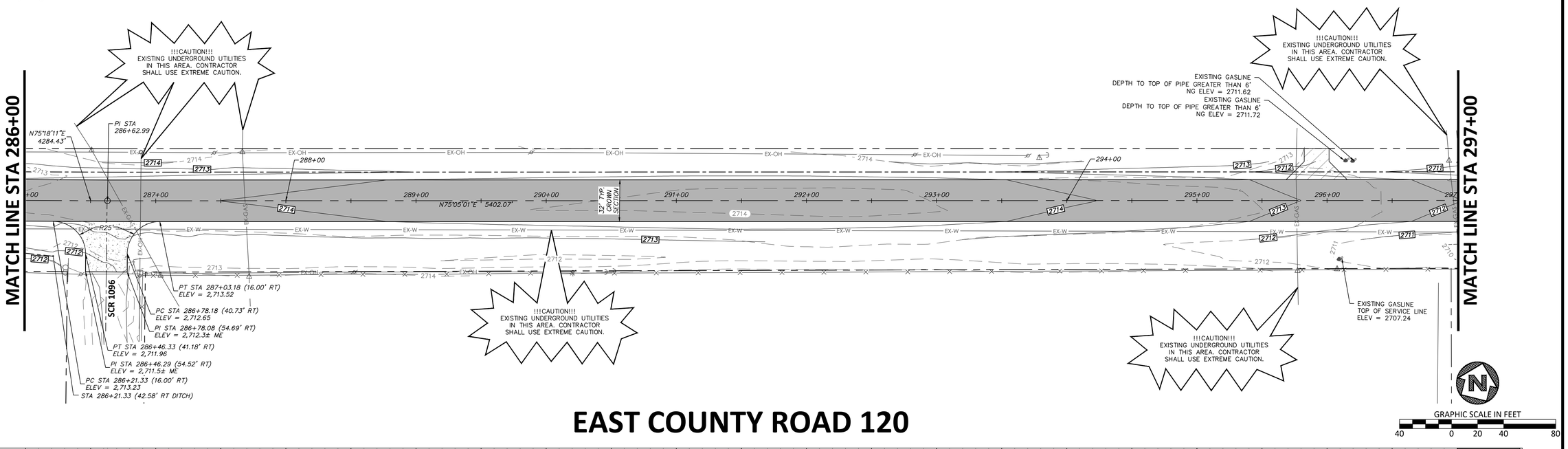
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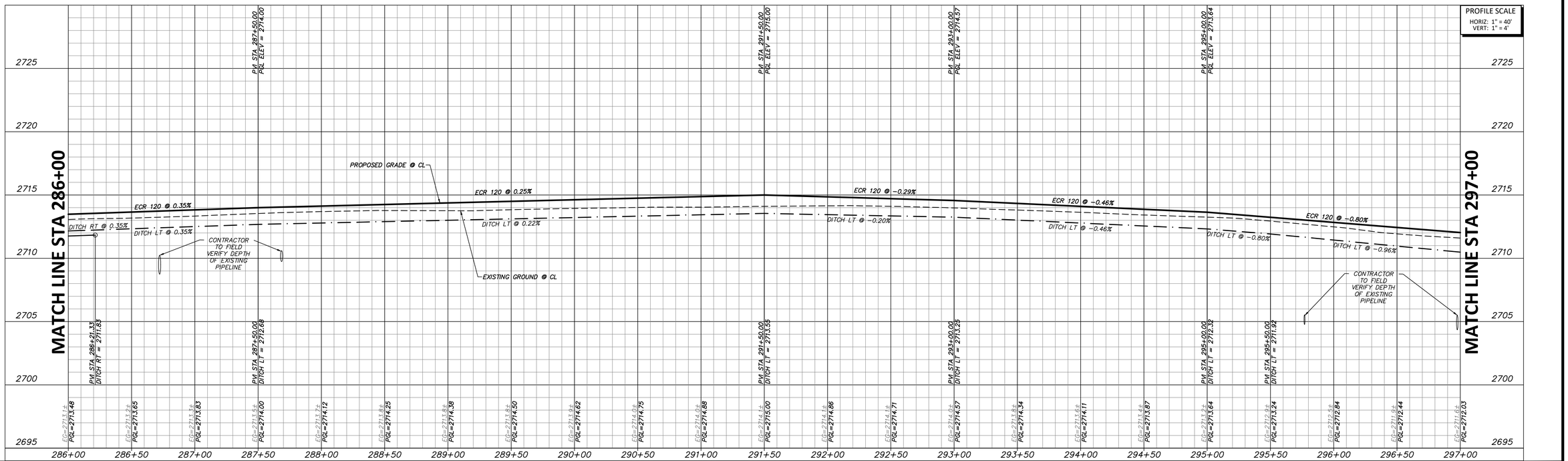
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EAST COUNTY ROAD 120



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DESIGNED MMC
DRAWN MMC
CHECKED JLB

MIDLAND COUNTY
MIDLAND, TEXAS

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10/06/22
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MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS

PLAN AND PROFILE
STA 286+00 TO 297+00

DA PROJECT B005663.001
SHEET 63

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PLOTTED BY: Rishesh Baker
PLOTTED ON: Thursday, October 06, 2022
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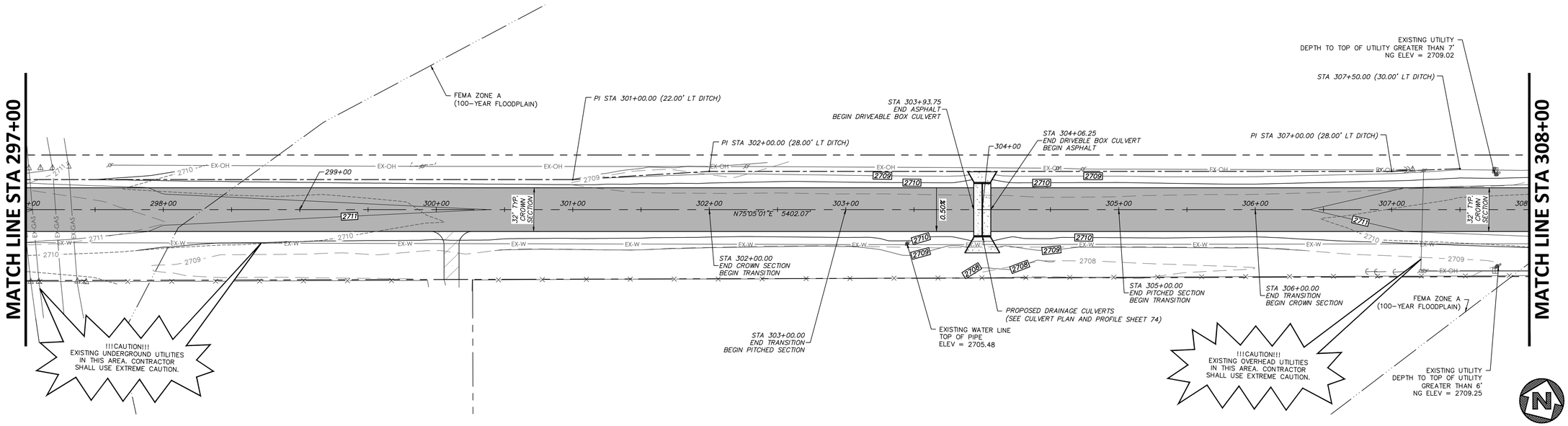
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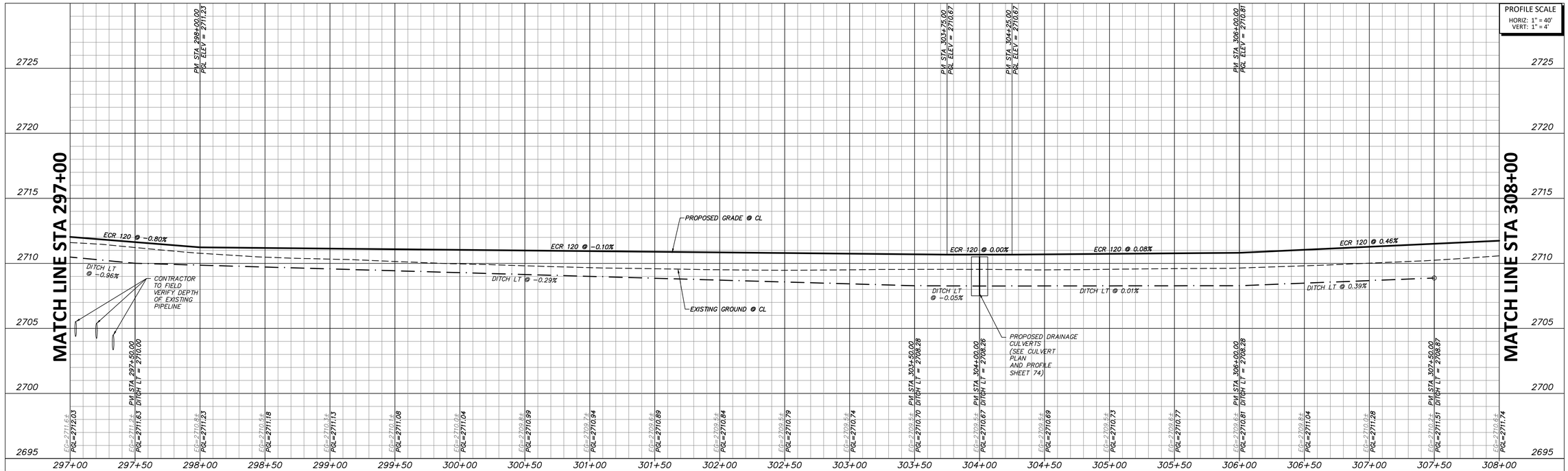
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DUNAWAY
4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
Tel: 432.699.4889
(TX REG. F-1114)

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS

PLAN AND PROFILE
STA 297+00 TO 308+00

DA PROJECT B005663.001
SHEET 64

FULL PATH: G:\Production\4000\005\005\SHEETS\001\Civil\Drawings\Plot Sheets\ROAD P&P.dwg
FILENAME: ROAD P&P.dwg
PLOTTED BY: Rishesh Baker
PLOTTED ON: Friday, October 06, 2022
PLOTTED AT: 2:56:26 PM

Texas 811
Know what's below. Call before you dig.

WARNING TO CONTRACTOR:

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STATE PLANE COORDINATE NOTE:

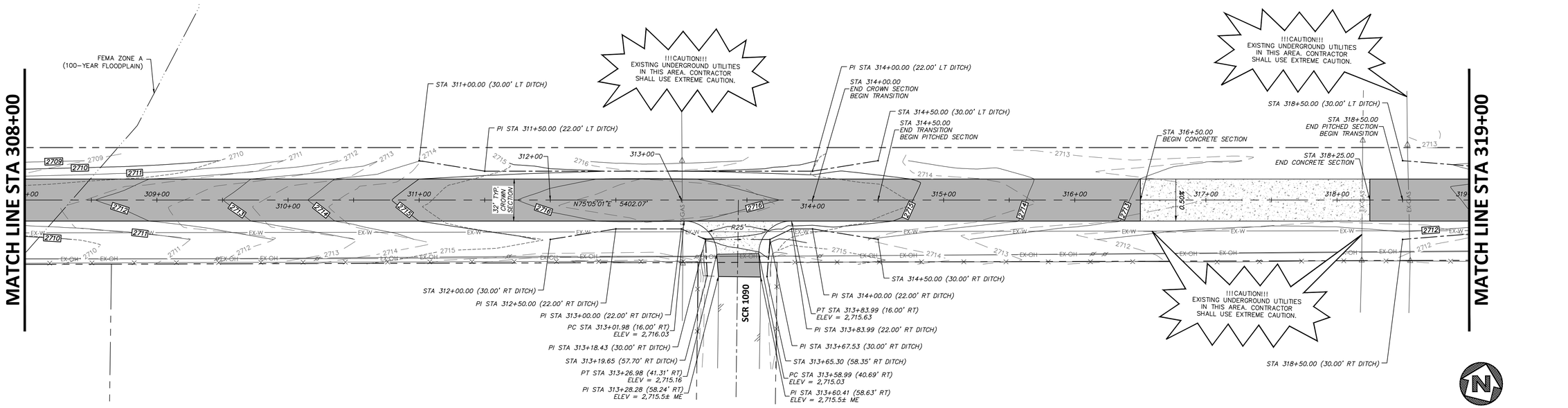
COORDINATES PROVIDED ARE RELATIVE TO THE TEXAS STATE PLANE COORDINATE SYSTEM (NAD83), CENTRAL ZONE 4203; ALL COORDINATES, BEARINGS, AND DISTANCES ARE NAD83 GRID VALUES.

OFF-SITE BENCHMARK:

BRASS DISK SET IN CONCRETE STAMPED "T 1189 1967", LOCATED 38 FEET NORTH OF THE CENTERLINE OF WEST COUNTY ROAD 180 AND 150 FEET WEST OF THE CENTERLINE OF STATE HWY 349.
NAD83 GRID COORDINATES N: 10,648,880.14' E: 1,765,914.09'
PUBLISHED ELEVATION: 2765.53' NAVD88 DATUM

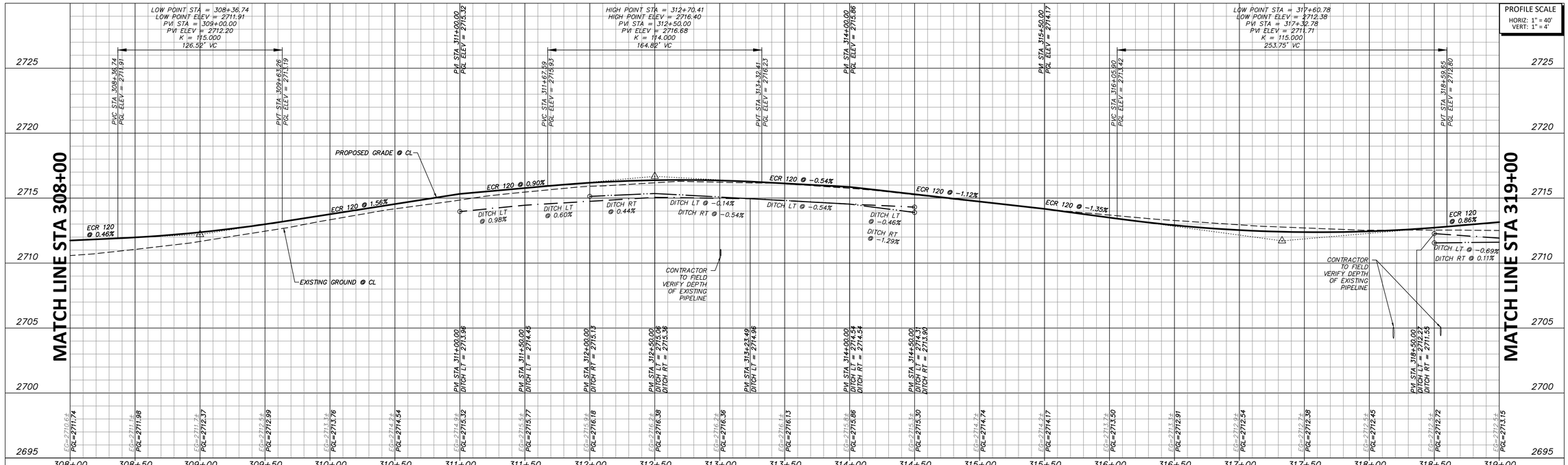
BENCHMARK NOTE:

SEE GENERAL NOTES (SHEET 1) FOR DETAILS.



EAST COUNTY ROAD 120

GRAPHIC SCALE IN FEET
40 0 20 40 80



NO.	REVISION	BY	DATE

MMC DESIGNED
MMC DRAWN
JLB CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1" = 40'
VERT 1" = 4'
DATE OCTOBER 2022

DUNAWAY
4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
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MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
PLAN AND PROFILE
STA 308+00 TO 319+00

DA PROJECT B005663.001
SHEET 65

FULL PATH: G:\Production\400\000\005\045\1001\Civil\Drawings\Plot Sheets\ROAD P&P.dwg
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PLOTTED BY: Rebekah Baker
PLOTTED ON: Friday, October 06, 2022
PLOTTED AT: 2:56:41 PM

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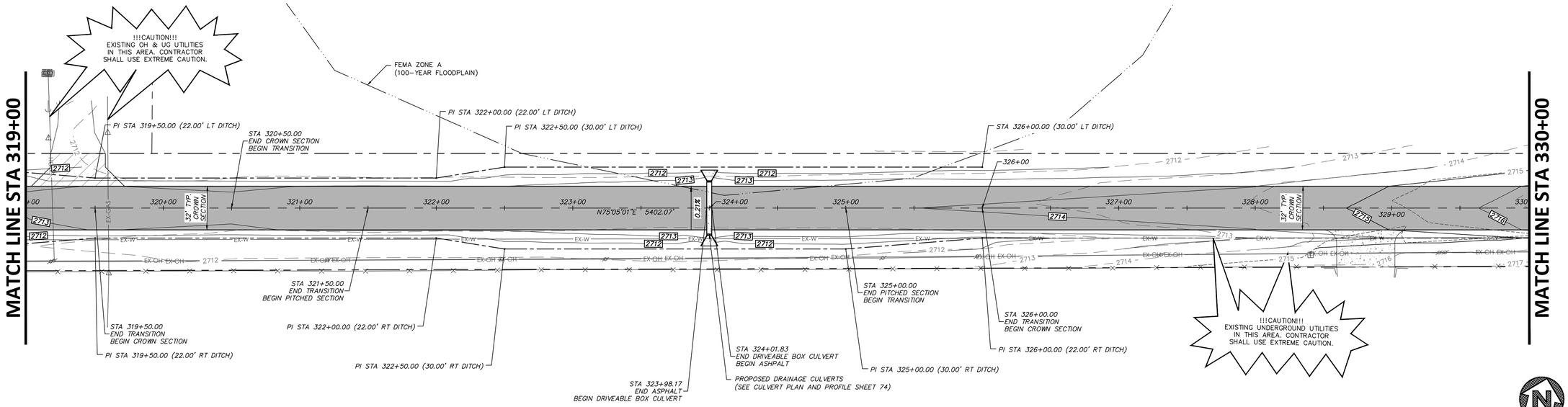
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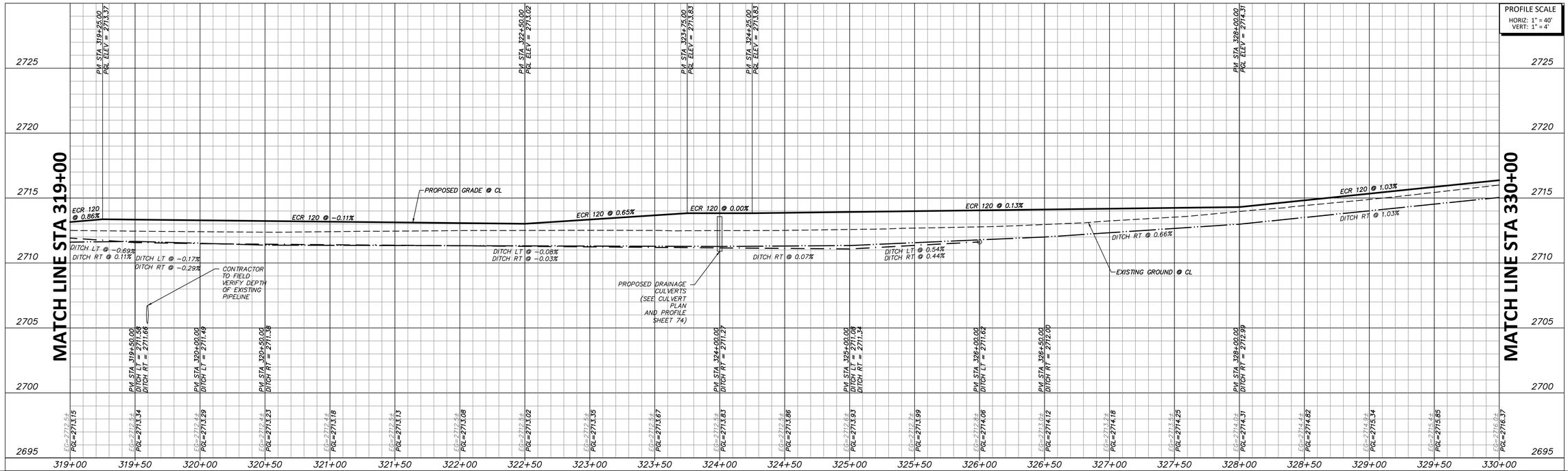
BENCHMARK NOTE:

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EAST COUNTY ROAD 120

GRAPHIC SCALE IN FEET
40 0 20 40 80



NO.	REVISION	BY	DATE

MMC DESIGNED
MMC DRAWN
JLB CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1" = 40'
VERT 1" = 4'
DATE OCTOBER 2022

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

10/06/22
STATE OF TEXAS
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MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
PLAN AND PROFILE
STA 319+00 TO 330+00

DA PROJECT B005663.001
SHEET 66

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PLOTTED BY: Rhiekan Baker
PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 2:56:58 PM

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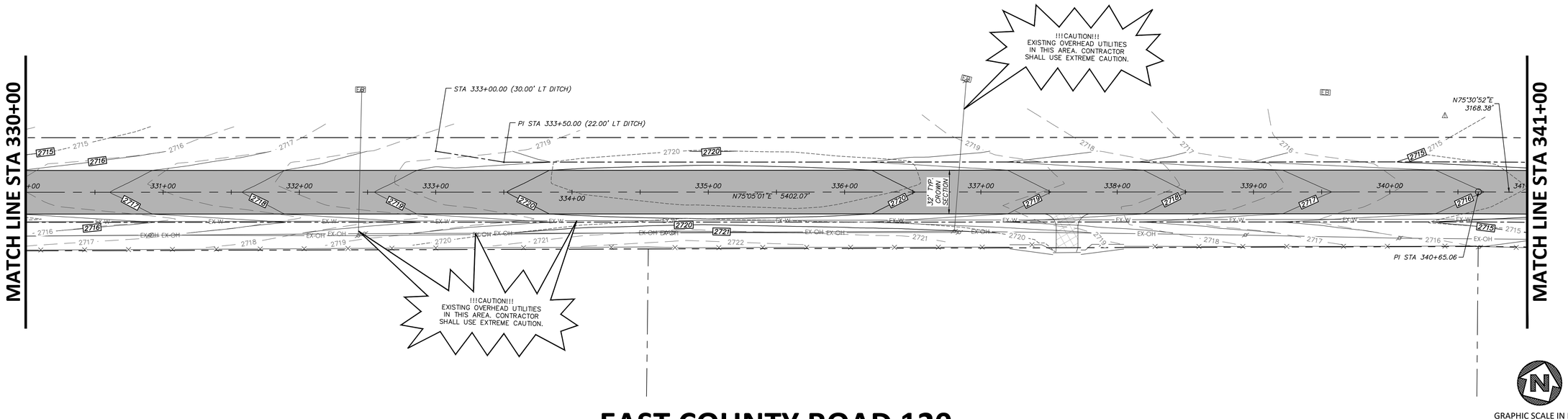
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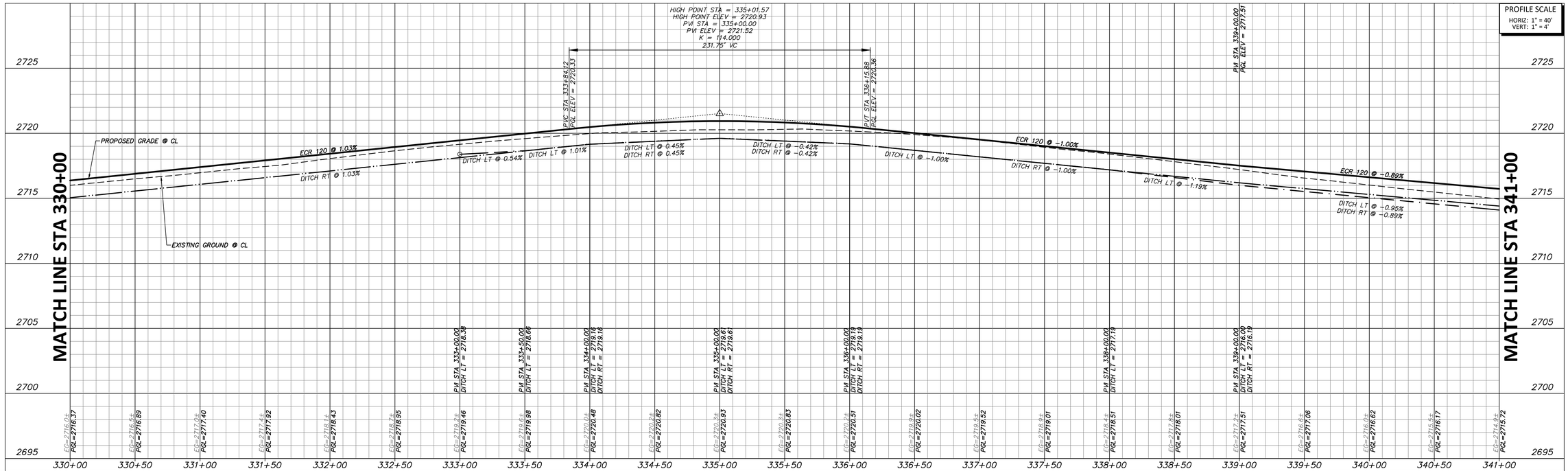
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EAST COUNTY ROAD 120

GRAPHIC SCALE IN FEET
40 0 20 40 80



NO.	REVISION	BY	DATE

MMC — DESIGNED
MMC — DRAWN
JLB — CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1" = 40'
VERT 1" = 4'
DATE OCTOBER 2022

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10/06/22
STATE OF TEXAS
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102960
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MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS

PLAN AND PROFILE
STA 330+00 TO 341+00

DA PROJECT B005663.001
SHEET 67

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PLOTTED BY: Rhekeh Baker
PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 2:57:13 PM

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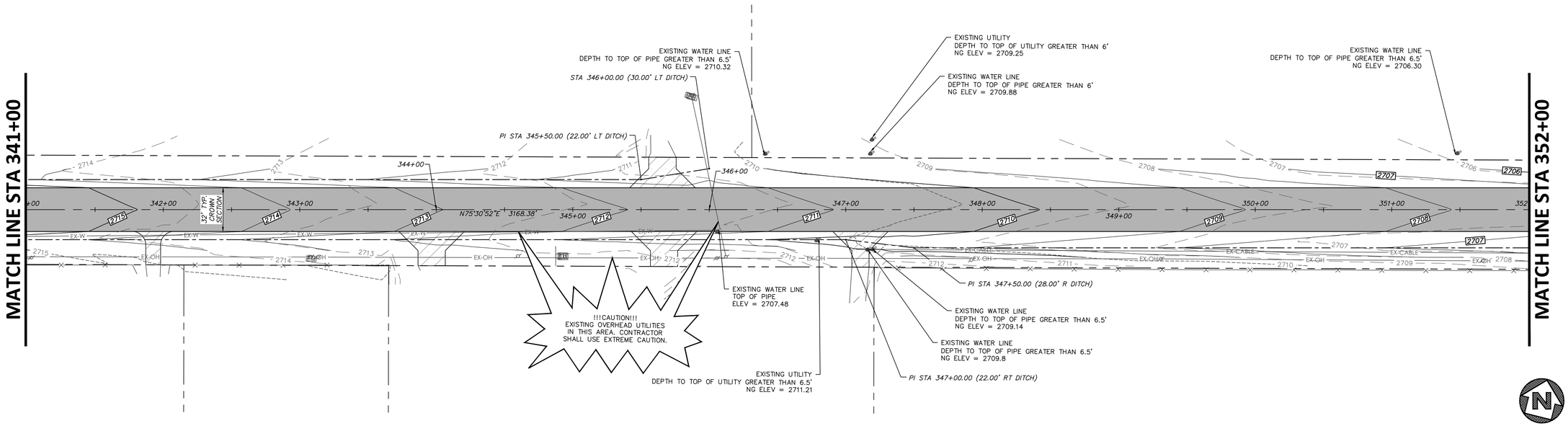
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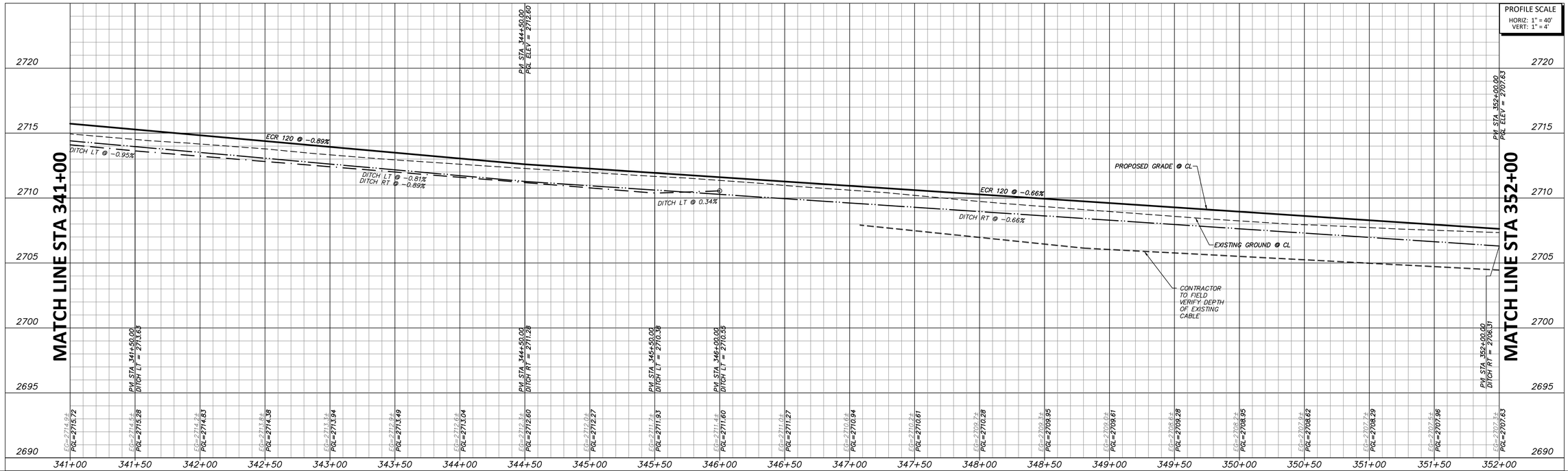
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EAST COUNTY ROAD 120

GRAPHIC SCALE IN FEET
40 0 20 40 80



NO.	REVISION	BY	DATE

MMC — DESIGNED
MMC — DRAWN
JLB — CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1" = 40'
VERT 1" = 4'
DATE
OCTOBER 2022

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10/06/22
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LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
PLAN AND PROFILE
STA 341+00 TO 352+00

DA PROJECT
B005663.001
SHEET
68

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PLOTTED BY: Rishesh Baker
PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 2:57:27 PM

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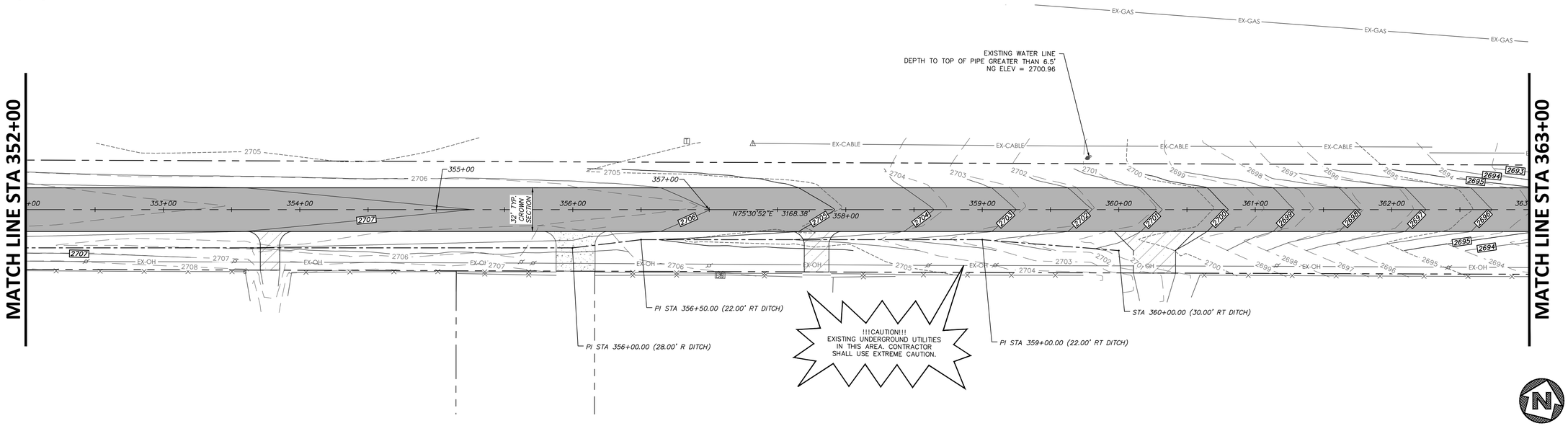
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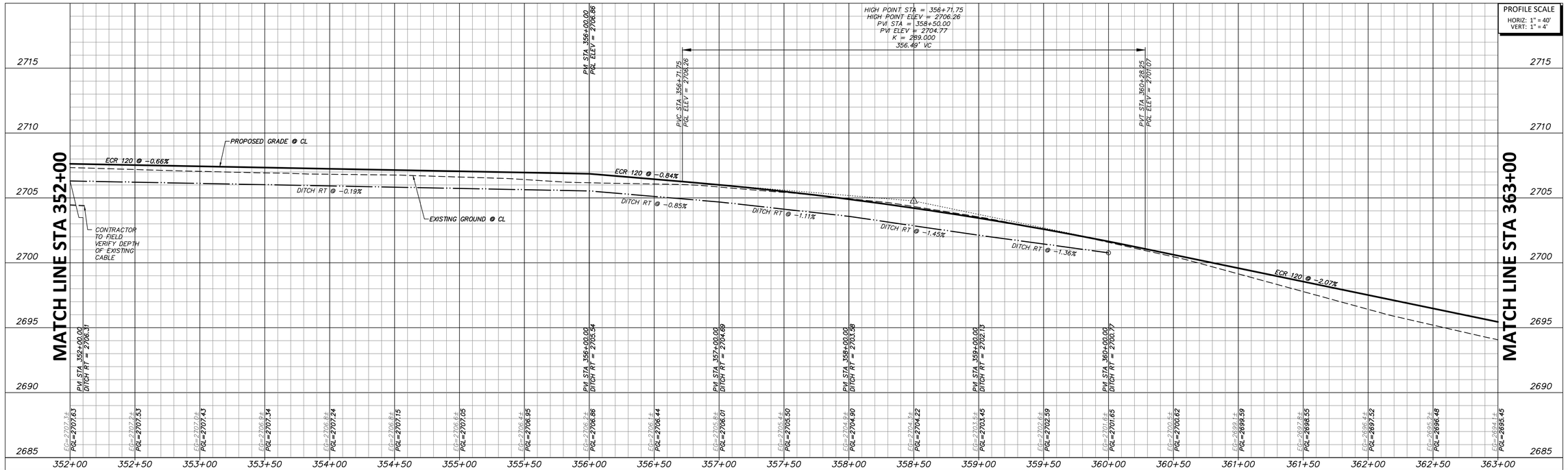
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EAST COUNTY ROAD 120

GRAPHIC SCALE IN FEET
40 0 20 40 80



NO.	REVISION	BY	DATE

MMC — DESIGNED
MMC — DRAWN
JLB — CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1" = 40'
VERT 1" = 4'
DATE
OCTOBER 2022

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Tel: 432.699.4889
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10/06/22
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EAST COUNTY ROAD 120 - PHASE II
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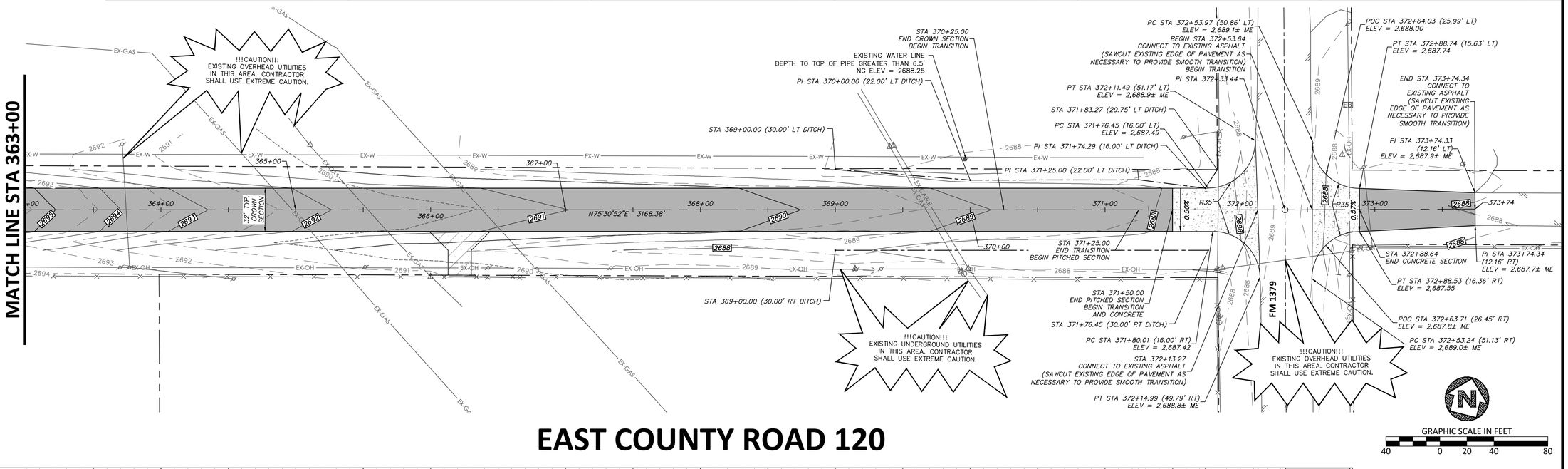
PLAN AND PROFILE
STA 352+00 TO 363+00

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SHEET 69

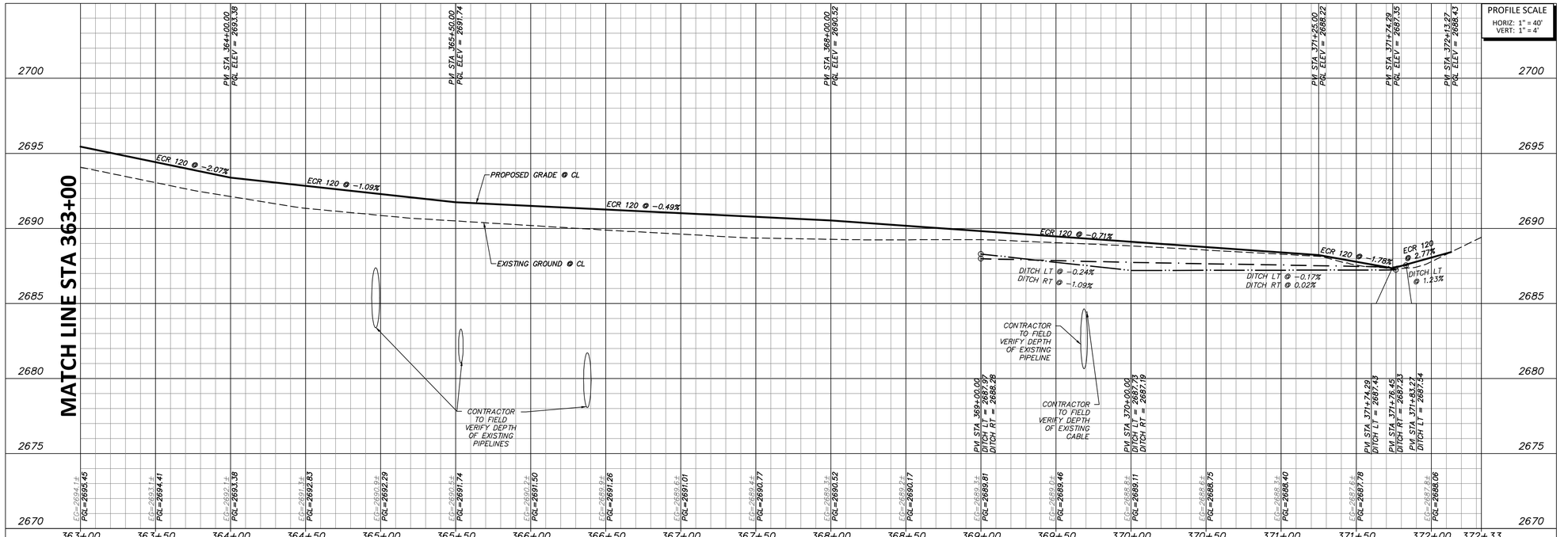
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PLOTTED BY: Rebekah Baker
PLOTTED ON: Wednesday, October 05, 2022
PLOTTED AT: 2:57:47 PM

Texas 811
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EAST COUNTY ROAD 120



NO.	REVISION	BY	DATE

MMC DESIGNED
MMC DRAWN
JLB CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1" = 40'
VERT 1" = 4'
DATE OCTOBER 2022

DUNAWAY
4000 N. Big Spring Street • Suite 101 • Midland, Texas 79705
Tel: 432.699.4889
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10/06/22
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MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
PLAN AND PROFILE
STA 363+00 TO END

DA PROJECT B005663.001
SHEET 70

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PLOTTED BY: Allison Allgood
PLOT DATE: Wednesday, October 26, 2022
PLOTTED AT: 1:34:37 PM

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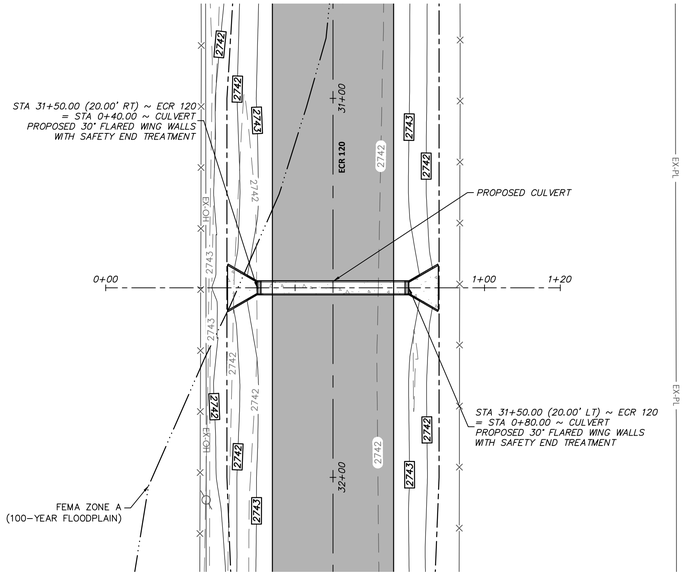
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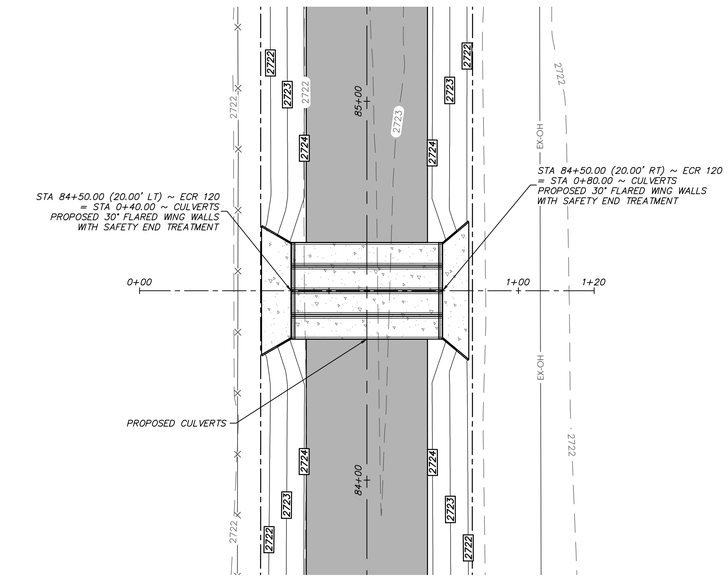
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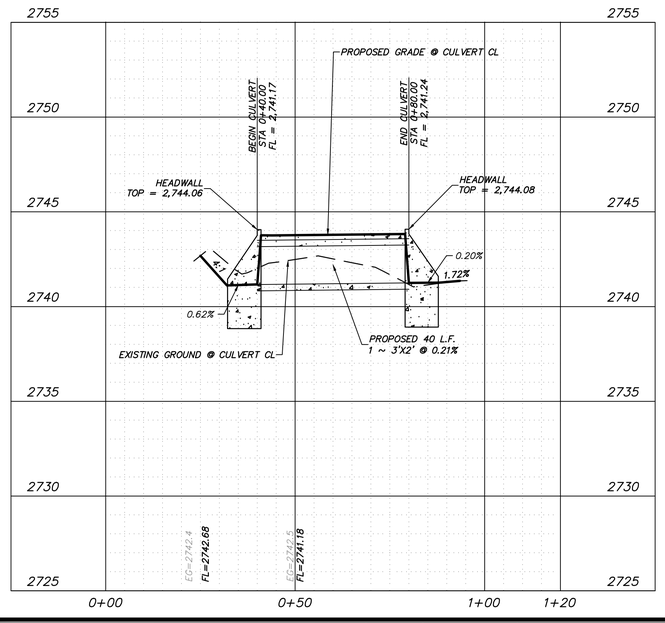
STA 31+50 CULVERT

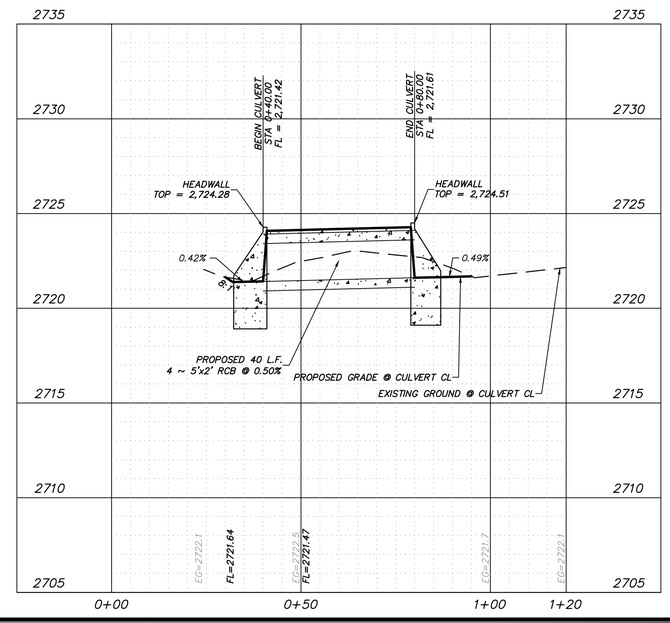


STA 84+50 CULVERT

GRAPHIC SCALE IN FEET
20 0 10 20 40

PROFILE SCALE
HORIZ: 1" = 20'
VERT: 1" = 4'





NO.	REVISION	BY	DATE

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MMC — DRAWN
JLB — CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

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

10/06/22 — STATE OF TEXAS — JENNIFER L. BECKER — 102960 — LICENSED PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
CULVERT PLAN AND PROFILE
STA 31+50 AND STA 84+50

DA PROJECT B005663.001
SHEET 71

FULL PATH: G:\Production\4000\005600\5663\001\Civil\Drawings\Plot Sheets\CULVERT P&P.dwg
FILENAME: CULVERT P&P.dwg
PLOTTED BY: Rebekah Baker
PLOTTED ON: October 06, 2022
PLOTTED AT: 2:50:24 PM

Texas 811
Know what's below. Call before you dig.

WARNING TO CONTRACTOR:

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STATE PLANE COORDINATE NOTE:

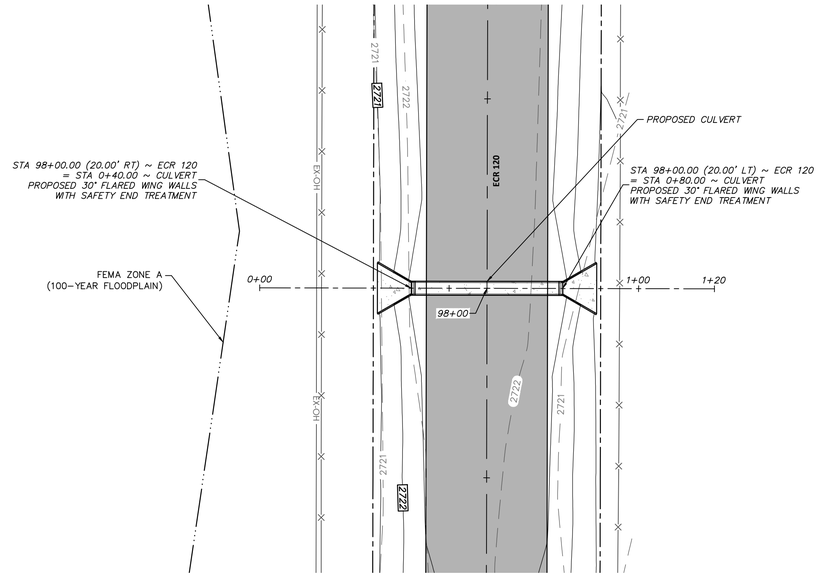
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OFF-SITE BENCHMARK:

BRASS DISK SET IN CONCRETE STAMPED "T 1189 1967", LOCATED 38 FEET NORTH OF THE CENTERLINE OF WEST COUNTY ROAD 180 AND 150 FEET WEST OF THE CENTERLINE OF STATE HWY 349.
NAD83 GRID COORDINATES N: 10,648,880.14' E:1,765,914.09'
PUBLISHED ELEVATION: 2765.53' NAVD88 DATUM

BENCHMARK NOTE:

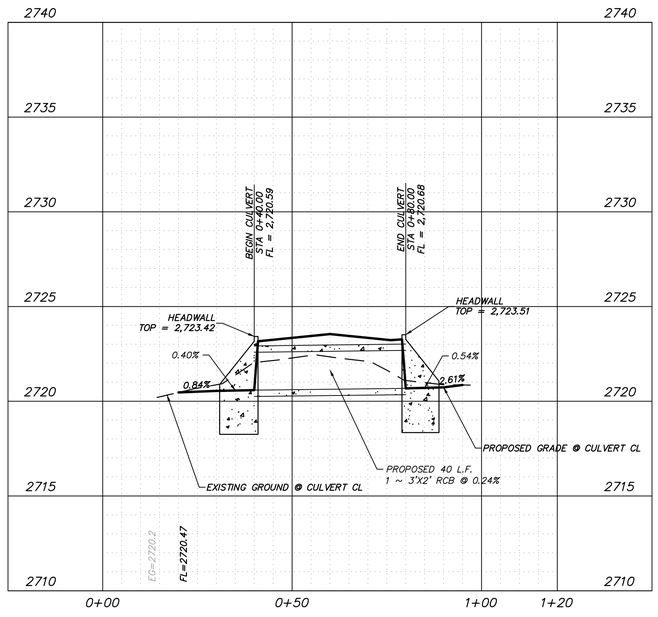
SEE GENERAL NOTES (SHEET 1) FOR DETAILS.



STA 98+00 CULVERT

GRAPHIC SCALE IN FEET
20 0 10 20 40

PROFILE SCALE
HORIZ: 1" = 20'
VERT: 1" = 4'



NO.	REVISION	BY	DATE

MMC — DESIGNED
MMC — DRAWN
JLB — CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1" = 20'
VERT 1"=4'
DATE
OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
CULVERT PLAN AND PROFILE
STA 98+00

DA PROJECT B005663.001
SHEET 72

FULL PATH: G:\Production\4000\005600\5663\001\Civil\Drawings\Plot Sheets\CULVERT P&P.dwg
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PLOTTED BY: Rebekah Baker
PLOTTED ON: October 06, 2022
PLOTTED AT: 2:59:37 PM

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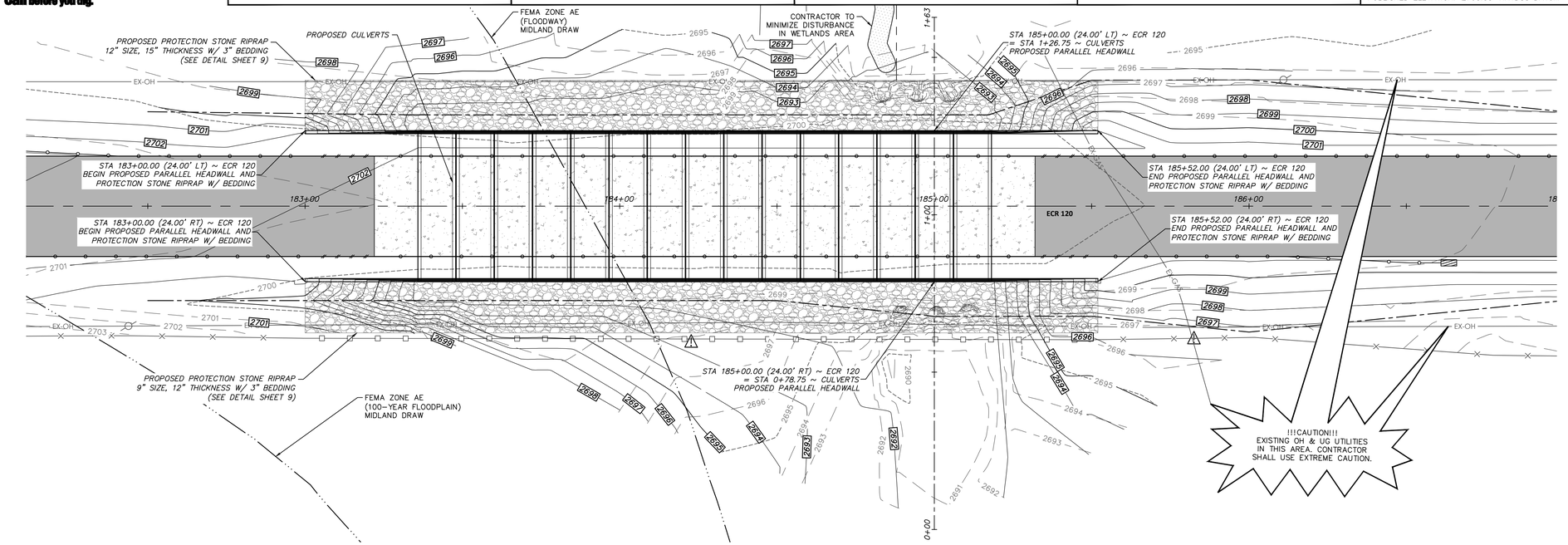
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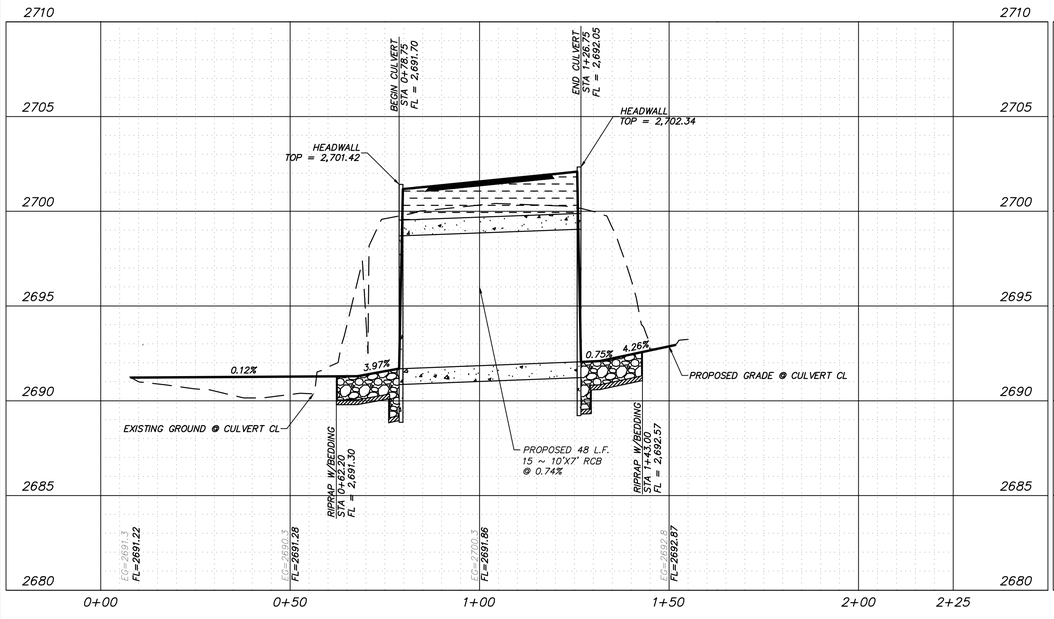


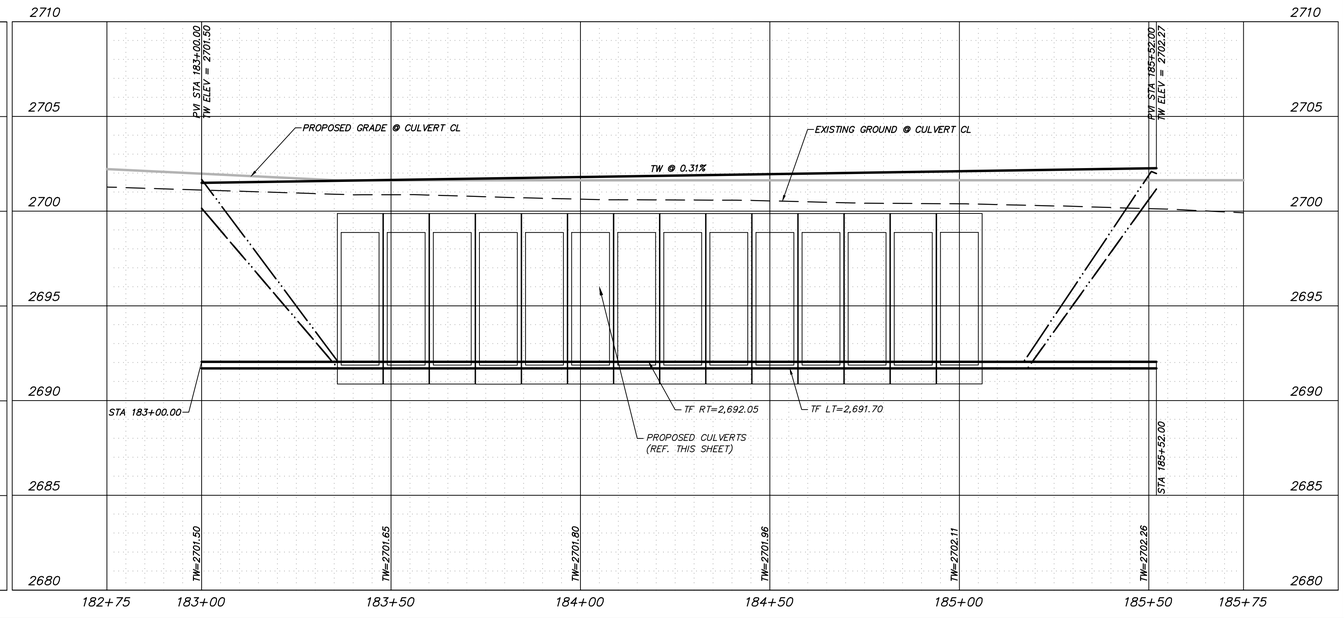
CONSTRUCTION IMPACTS TO WATERS OF THE U.S. NOTE: NATIONWIDE PERMIT 14 AUTHORIZES TEMPORARY STRUCTURES, FILLS, AND WORK, INCLUDING THE USE OF TEMPORARY MATS, NECESSARY TO CONSTRUCT THE LINEAR TRANSPORTATION PROJECT. APPROPRIATE MEASURES MUST BE TAKEN TO MAINTAIN NORMAL DOWNSTREAM FLOWS AND MINIMIZE FLOODING 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 PRECONSTRUCTION ELEVATIONS. THE AREAS AFFECTED BY TEMPORARY FILLS MUST BE REVEGETATED, AS APPROPRIATE.

GRAPHIC SCALE IN FEET
20 0 10 20 40

PROFILE SCALE
HORIZ: 1" = 20'
VERT: 1" = 4'

MIDLAND DRAW CULVERTS





NO.	REVISION	BY	DATE

DESIGNED: MMC
DRAWN: MMC
CHECKED: JLB

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1" = 20'
VERT 1"=4'
DATE
OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
CULVERT PLAN AND PROFILE
MIDLAND DRAW

DA PROJECT B005663.001
SHEET 73

FULL PATH: G:\Production\4000\005600\5663\001\Civil\Drawings\Plot Sheets\CULVERT P&P.dwg
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PLOTTED BY: Rebekah Baker
PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 2:59:59 PM

Texas 811
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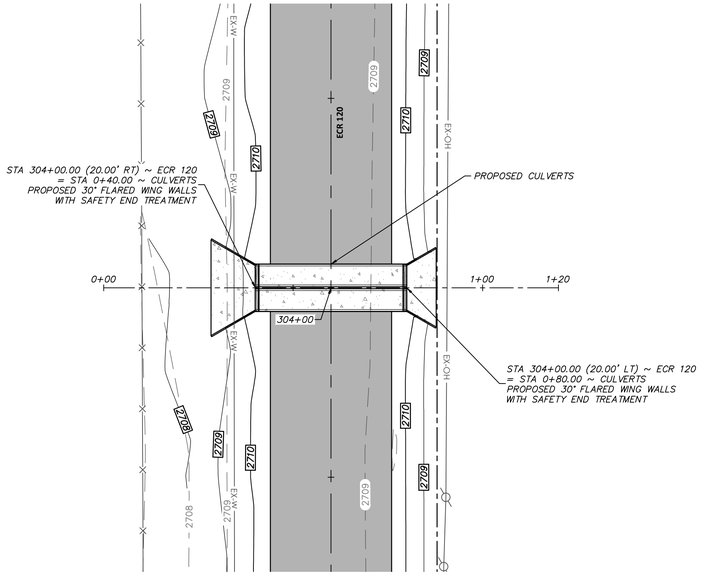
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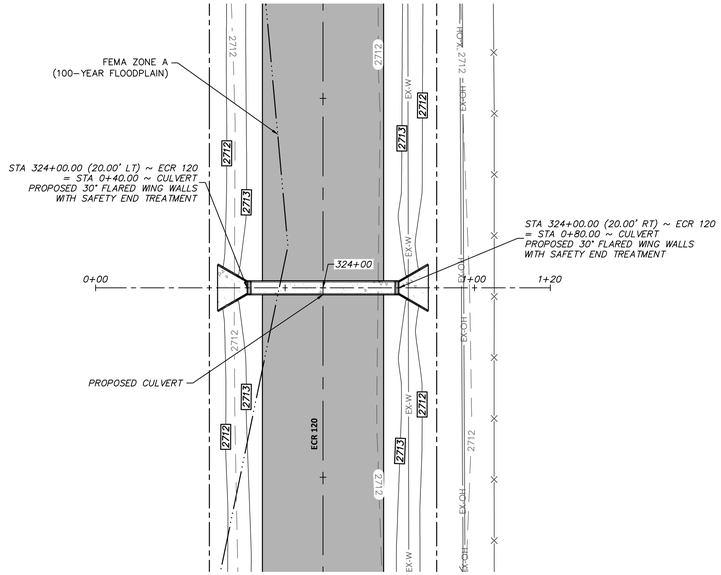
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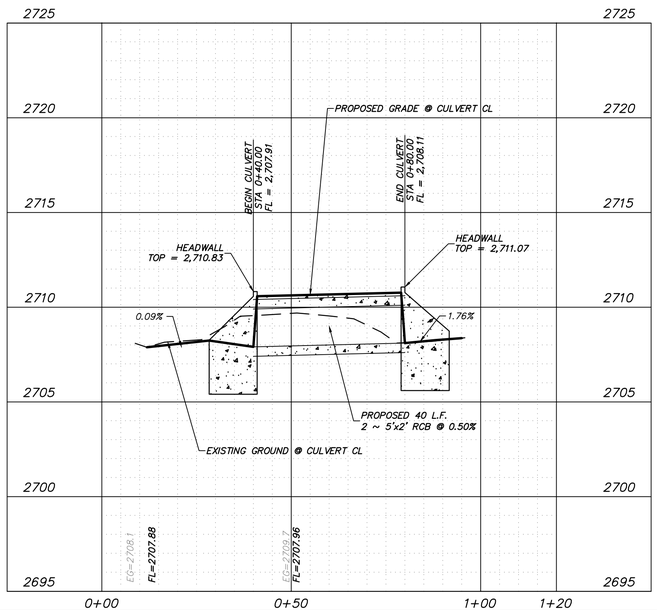
STA 304+00 CULVERT

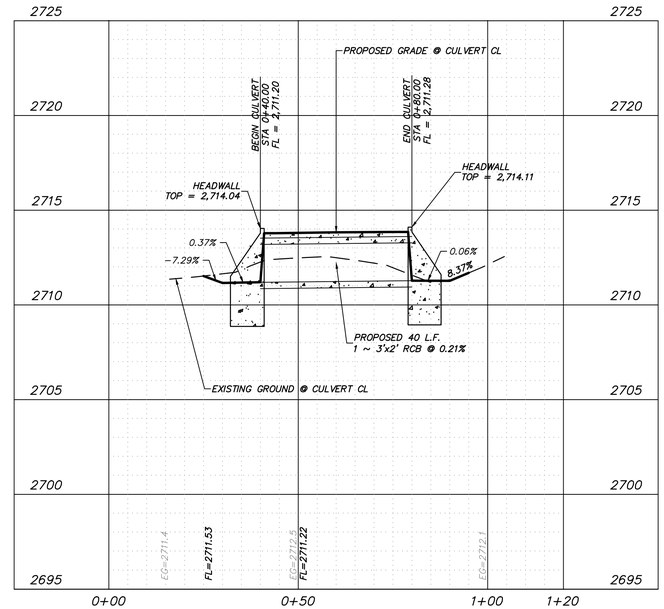


STA 324+00 CULVERT

GRAPHIC SCALE IN FEET
20 0 10 20 40

PROFILE SCALE
HORIZ: 1" = 20'
VERT: 1" = 4'





NO.	REVISION	BY	DATE

MMC — DESIGNED
MMC — DRAWN
JLB — CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1" = 20'
VERT 1"=4'
DATE
OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
CULVERT PLAN AND PROFILE
STA 304+00 AND STA 324+00

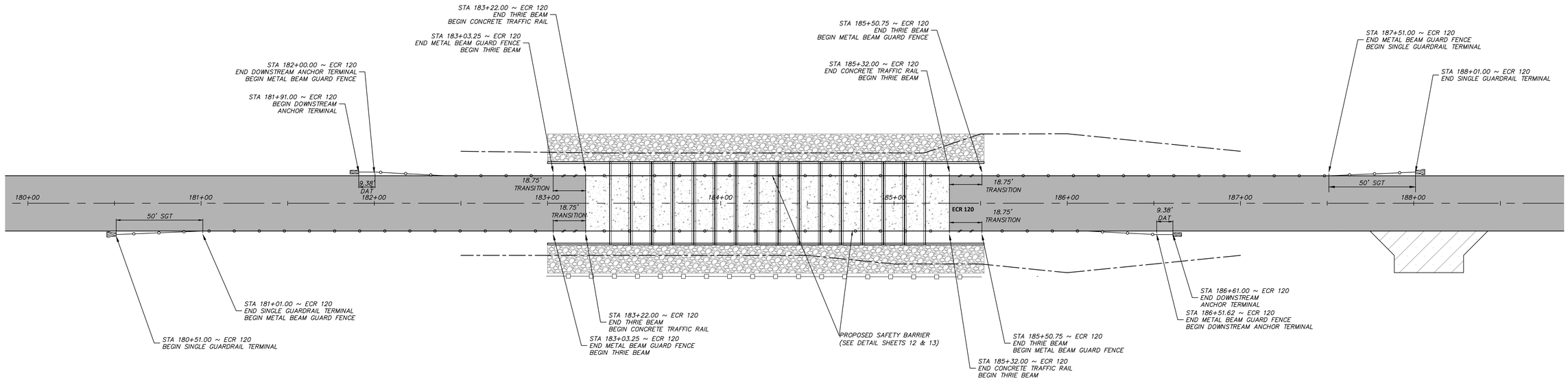
DA PROJECT B005663.001
SHEET 74

FULL PATH: G:\Production\4000\005600\5663\001\Civil\Drawings\Plot Sheets\CULVERT P&P.dwg
FILENAME: CULVERT P&P.dwg
PLOTTED BY: Rebekah Baker
PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 3:00:14 PM

Texas 811
Know what's below.
Call before you dig.

WARNING TO CONTRACTOR:	CRITICAL:	UTILITY RELOCATION NOTE:	STATE PLANE COORDINATE NOTE:	OFF-SITE BENCHMARK:	BENCHMARK NOTE:
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EAST COUNTY ROAD 120



GRAPHIC SCALE IN FEET
30 0 15 30 60

NO.	REVISION	BY	DATE

JLB DESIGNED
RLB DRAWN
JLB CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1" = 30'
VERT 1"=4'
DATE OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS

SAFETY BARRIER PLAN

DA PROJECT B005663.001
SHEET 74

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FILENAME: CULVERT R&P.dwg
PLOTTED BY: Rebekah Baker
PLOTTED ON: October 06, 2022
PLOTTED AT: 3:05:15 PM

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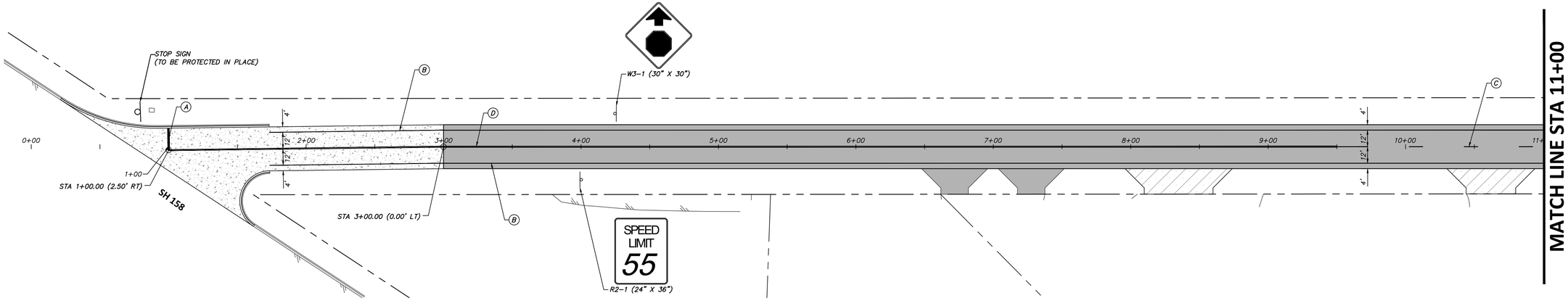
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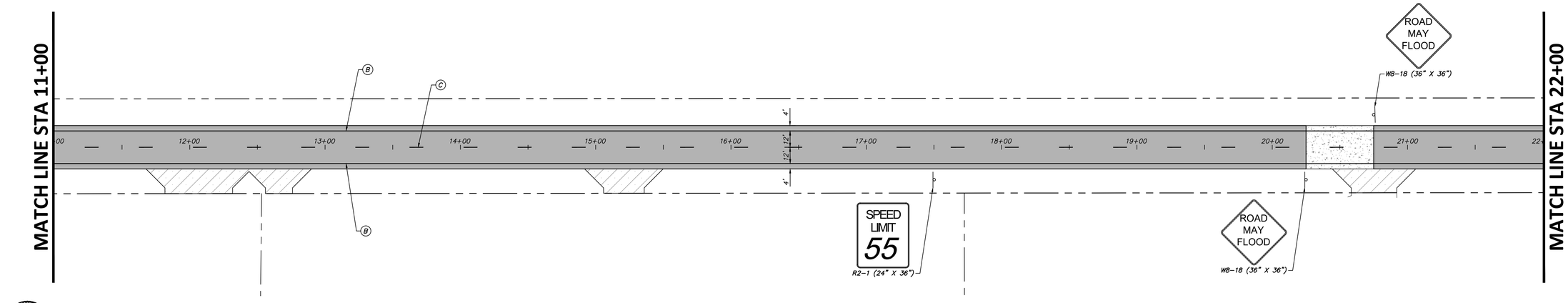
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GRAPHIC SCALE IN FEET
40 0 20 40 80

NOTES:

1. INSTALL PAVEMENT MARKINGS AND SIGNAGE PER TxDOT STANDARDS AND DETAILS AND TEXAS MUTCD.
2. STRIPING TO FOLLOW ALIGNMENT STATIONING OF ROADWAY.
3. ALL PAVEMENT MARKING DIMENSIONS MEASURED FROM CENTER OF STRIPING.

PAVEMENT MARKINGS

- (A) REFL PAV MRK (W) 18" (SOLID)
- (B) REFL PAV MRK (W) 4" (SOLID)
- (C) REFL PAV MRK (Y) 4" (BRK)
- (D) REFL PAV MRK (Y) 4" DOUBLE (SOLID)
- INSTALL ROADSIDE SIGN

NO.	REVISION	BY	DATE

MMC — DESIGNED
MMC — DRAWN
JLB — CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1" = 40'
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EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
SIGNAGE AND PAVEMENT MARKINGS PLAN
STA 0+00 TO 22+00

DA PROJECT B005663.001
SHEET 76

FULL PATH: G:\Production\400\005600\056035\001\Civil\Drawings\Plot Sheets\SIGNAGE & PAVEMENT MARKINGS.dwg
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PLOTTED BY: Reshesh Baker
PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 3:02:21 PM

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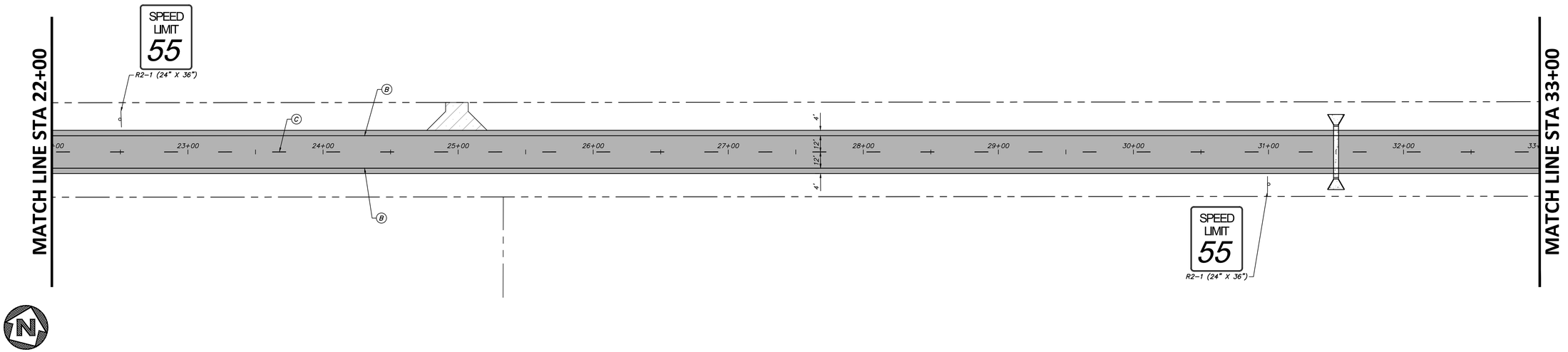
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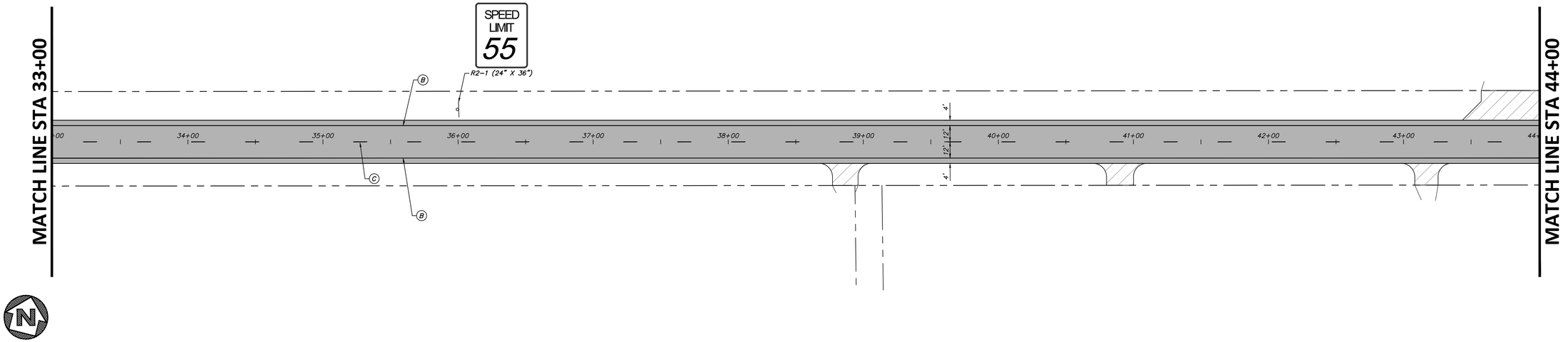
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GRAPHIC SCALE IN FEET
40 0 20 40 80

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NO.	REVISION	BY	DATE

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MMC DRAWN
JLB CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

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MIDLAND COUNTY, TEXAS
SIGNAGE AND PAVEMENT MARKINGS PLAN
STA 22+00 TO 44+00

DA PROJECT B005663.001
SHEET 77

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PLOTTED BY: Rebekah Baker
PLOT DATE: Thursday, October 06, 2022
PLOTTED AT: 1:01:24 PM

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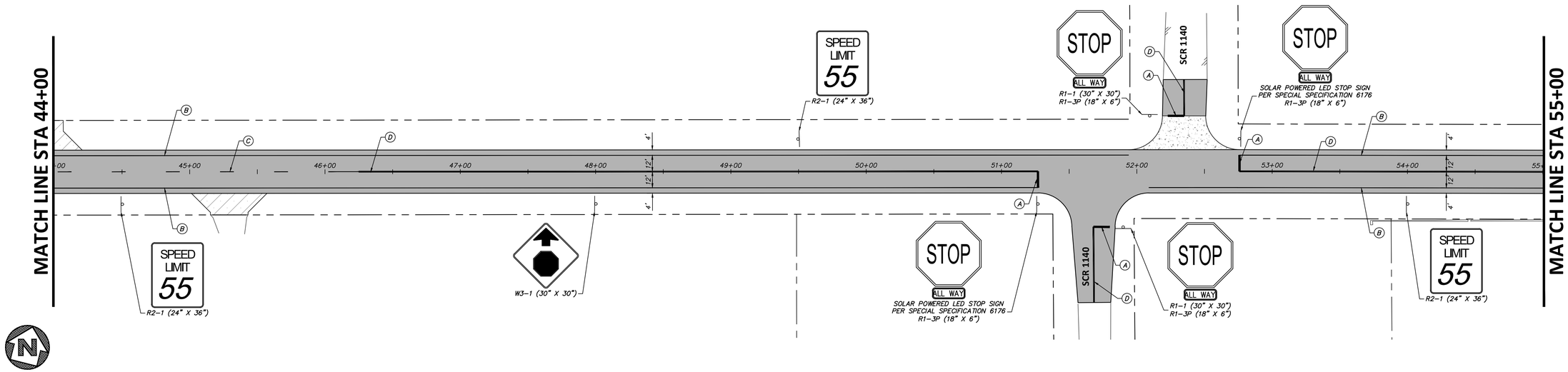
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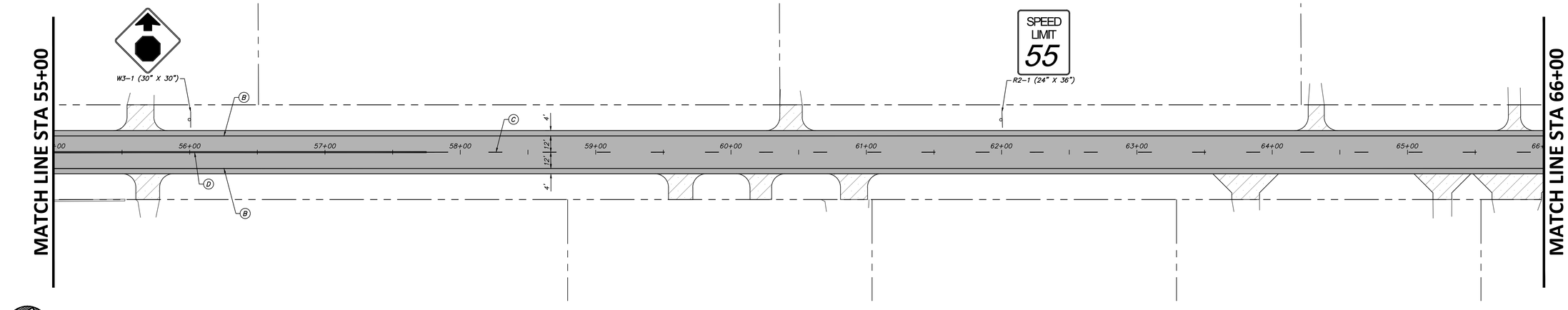
OFF-SITE BENCHMARK:

BRASS DISK SET IN CONCRETE STAMPED "T 1189 1967", LOCATED 38 FEET NORTH OF THE CENTERLINE OF WEST COUNTY ROAD 180 AND 150 FEET WEST OF THE CENTERLINE OF STATE HWY 349.
NAD83 GRID COORDINATES N: 10,648,880.14' E:1,765,914.09'
PUBLISHED ELEVATION: 2765.53' NAVD88 DATUM

BENCHMARK NOTE:

SEE GENERAL NOTES (SHEET 1) FOR DETAILS.





NOTES:

1. INSTALL PAVEMENT MARKINGS AND SIGNAGE PER TxDOT STANDARDS AND DETAILS AND TEXAS MUTCD.
2. STRIPING TO FOLLOW ALIGNMENT STATIONING OF ROADWAY.
3. ALL PAVEMENT MARKING DIMENSIONS MEASURED FROM CENTER OF STRIPING.

GRAPHIC SCALE IN FEET
40 0 20 40 80

PAVEMENT MARKINGS

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- (D) REFL PAV MRK (Y) 4" DOUBLE (SOLID)
- INSTALL ROADSIDE SIGN

NO.	REVISION	BY	DATE

MMC — DESIGNED
MMC — DRAWN
JLB — CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1" = 40'
VERT N/A
DATE OCTOBER 2022

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

STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER
10/06/22

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
SIGNAGE AND PAVEMENT MARKINGS PLAN
STA 44+00 TO 66+00

DA PROJECT B005663.001
SHEET 78

FILE PATH: G:\Production\4000\005\005\5663\19011\Civil\Drawing\Plot Sheet\SIGNAGE & PAVEMENT MARKINGS.dwg
FILENAME: SIGNAGE & PAVEMENT MARKINGS.dwg
PLOTTED BY: Rebekah Baker
PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 1:01:18 PM

Texas 811
Know what's below.
Call before you dig.

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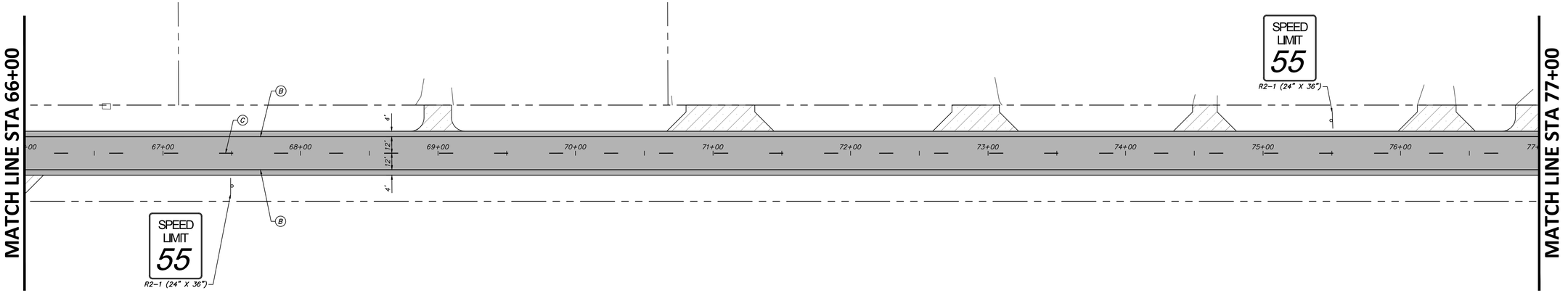
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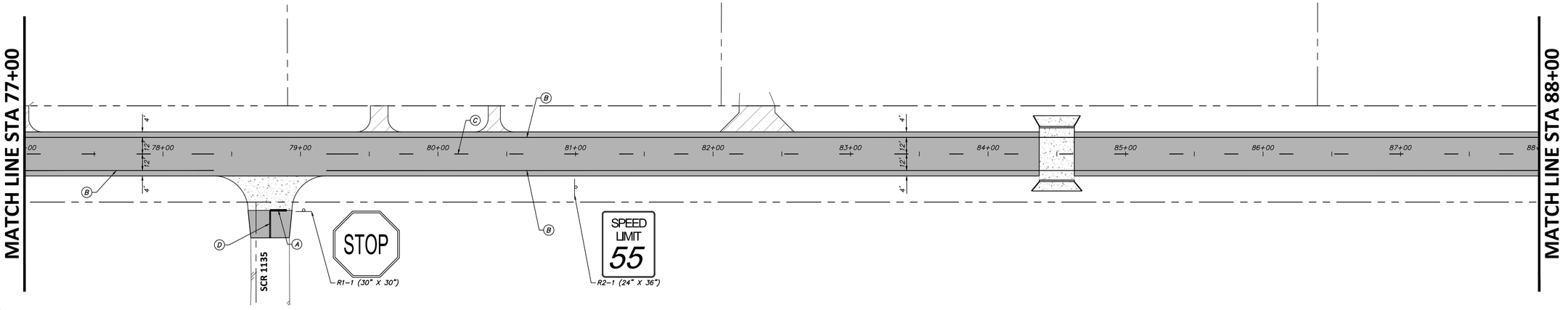
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40 0 20 40 80

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MMC — DRAWN
JLB — CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1" = 40'
VERT N/A
DATE OCTOBER 2022

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Tel: 432.699.4889
(TX REG. F-1114)

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
SIGNAGE AND PAVEMENT MARKINGS PLAN
STA 66+00 TO 88+00

DA PROJECT B005663.001
SHEET 79

FILE PATH: G:\Production\4000\005605\05605631001\Civil\Drawing\Plot Sheet\SIGNAGE & PAVEMENT MARKINGS.dwg
FILENAME: SIGNAGE & PAVEMENT MARKINGS.dwg
PLOTTED BY: Rebekah Baker
PLOTTED ON: Wednesday, October 05, 2022
PLOTTED AT: 1:01:11 PM

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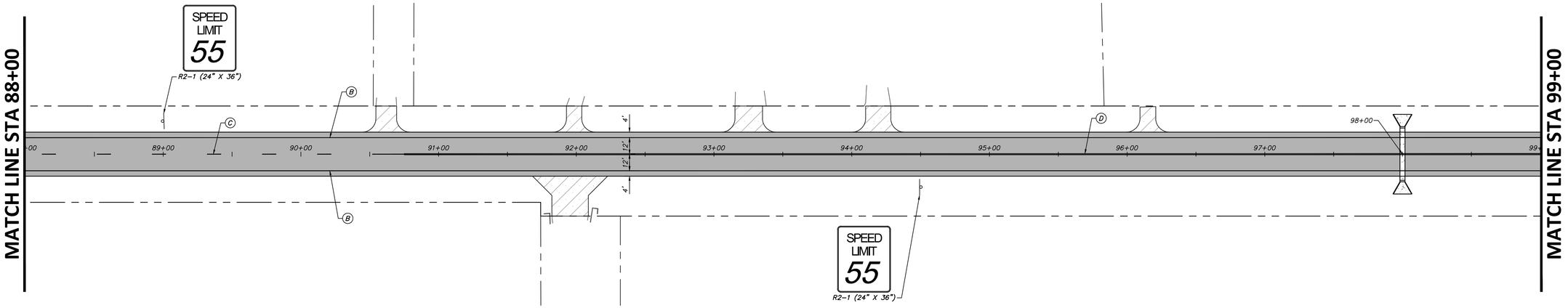
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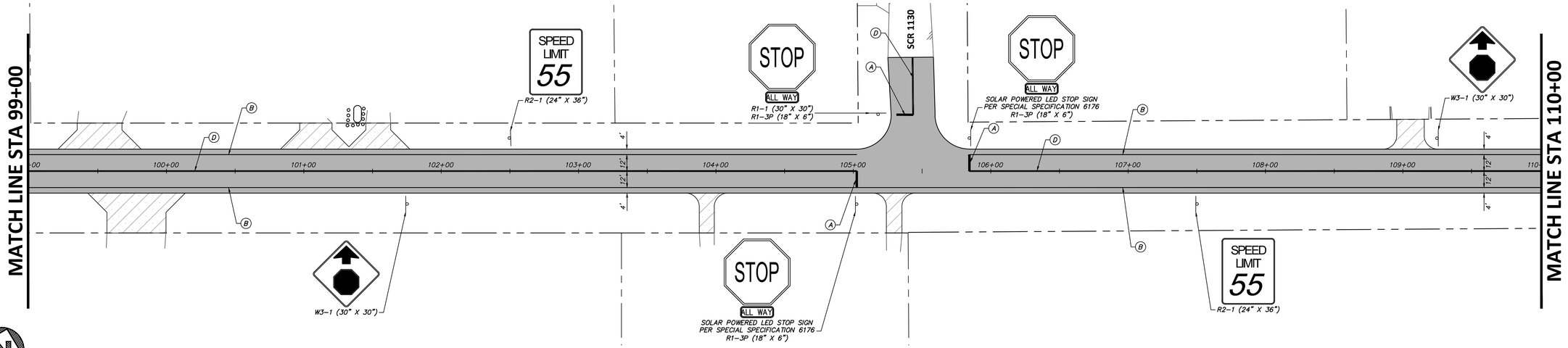
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MMC — DRAWN
JLB — CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
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VERT N/A
DATE OCTOBER 2022

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10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
SIGNAGE AND PAVEMENT MARKINGS PLAN
STA 88+00 TO 110+00

DA PROJECT B005663.001
SHEET 80

FILE PATH: G:\Production\4000\005600\005663\001\Civil\Drawings\Plot Sheets\SIGNAGE & PAVEMENT MARKINGS.dwg
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PLOTTED BY: Rehnah Baker
PLOTTED ON: November 06, 2022
PLOTTED AT: 3:03:35 PM

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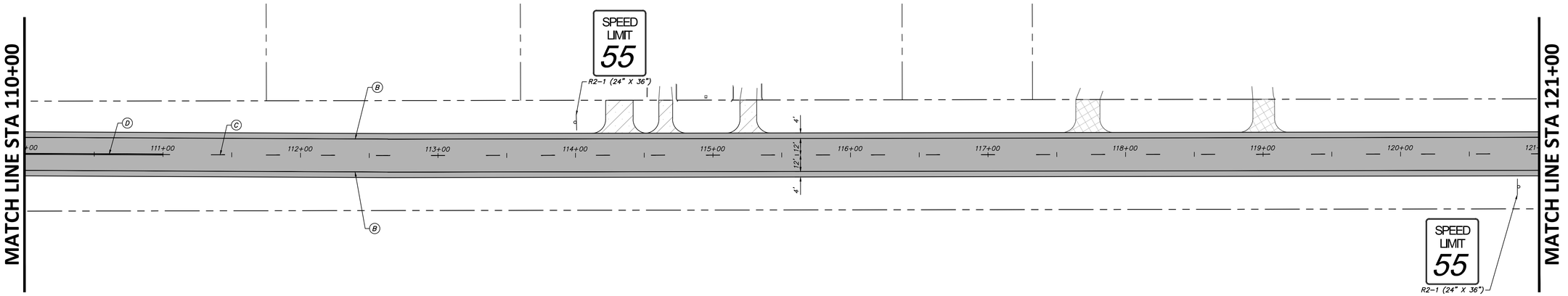
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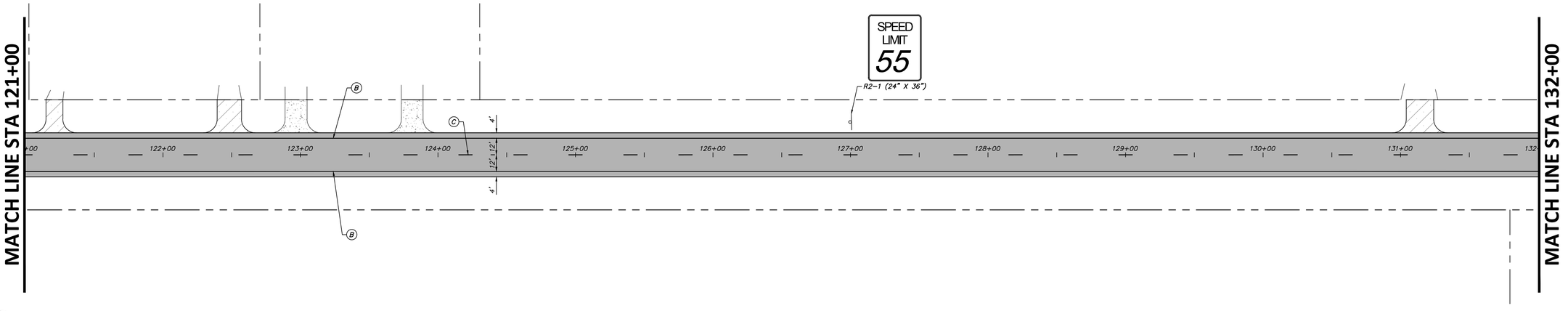
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MIDLAND, TEXAS

SCALE
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VERT N/A
DATE OCTOBER 2022

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Tel: 432.699.4889
(TX REG. F-1114)

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS

SIGNAGE AND PAVEMENT MARKINGS PLAN
STA 110+00 TO 132+00

DA PROJECT B005663.001
SHEET 81

FILE PATH: G:\Production\4000\005\05\56631001\Civil\Drawing\Plot Sheet\SIGNAGE & PAVEMENT MARKINGS.dwg
FILENAME: SIGNAGE & PAVEMENT MARKINGS.dwg
PLOTTED BY: Rebekah Baker
PLOTTED ON: Wednesday, October 05, 2022
PLOTTED AT: 1:01:18 PM

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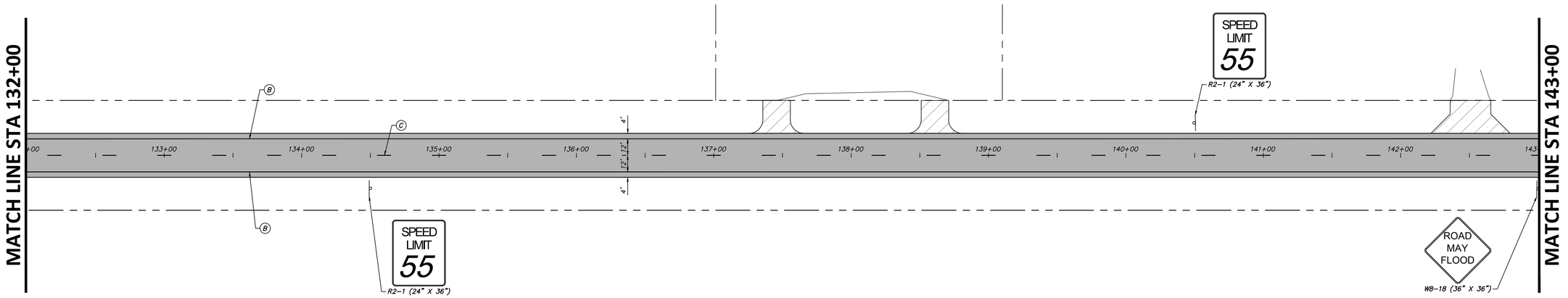
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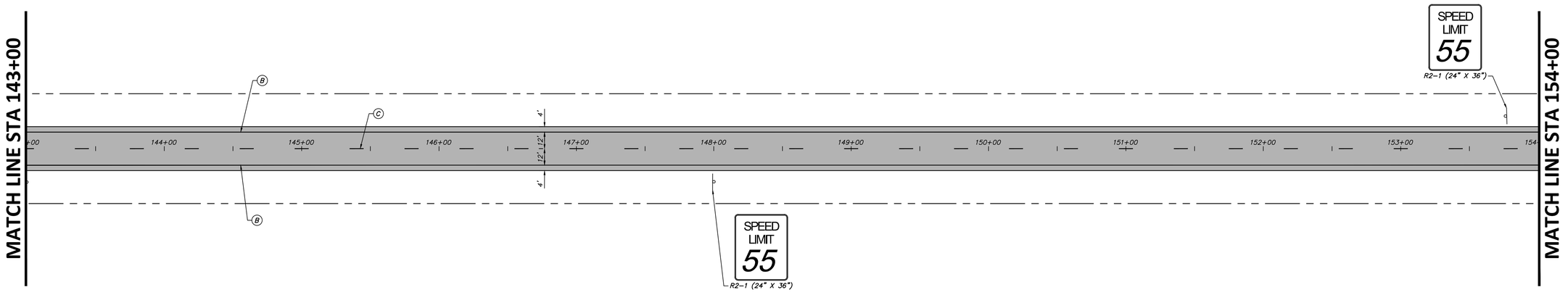
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MMC DESIGNED
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MIDLAND COUNTY
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10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
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PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
SIGNAGE AND PAVEMENT MARKINGS PLAN
STA 132+00 TO 154+00

DA PROJECT B005663.001
SHEET 82

FULL PATH: G:\Production\4000\005\005\SIGS\001\Civil\Drawings\Plot Sheets\SIGNAGE & PAVEMENT MARKINGS.dwg
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PLOTTED BY: Rhonda Baker
PLOTTED ON: October 06, 2022
PLOTTED AT: 3:01:47 PM

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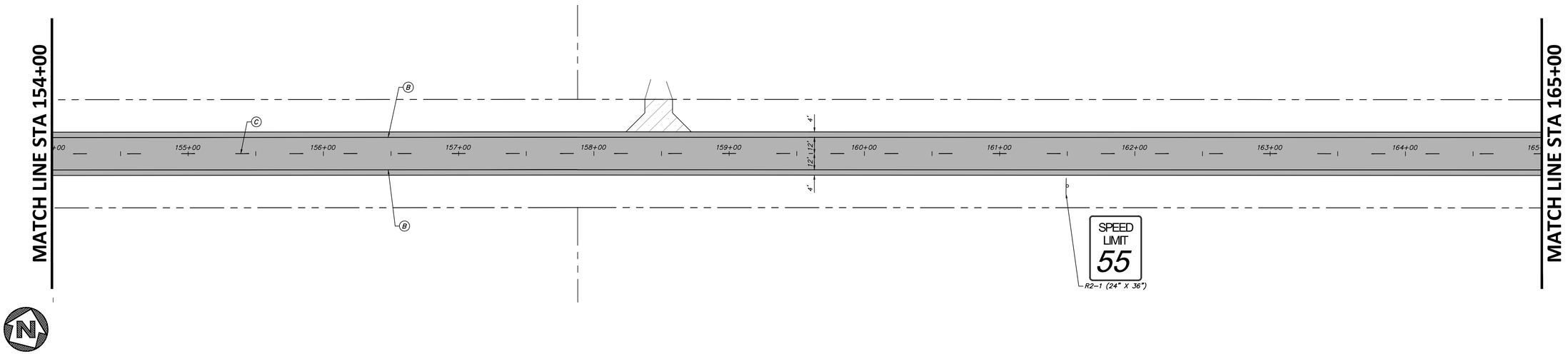
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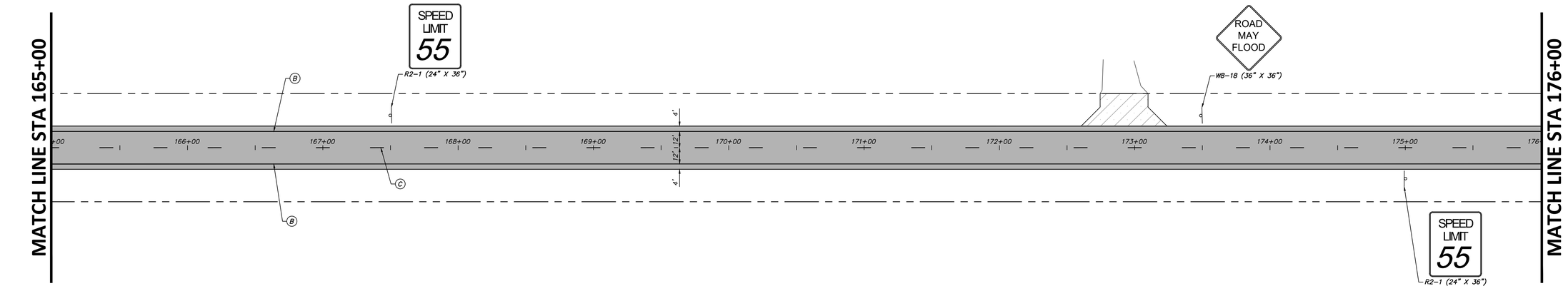
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10/06/22
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JENNIFER L. BECKER
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EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS

SIGNAGE AND PAVEMENT MARKINGS PLAN
STA 154+00 TO 176+00

DA PROJECT B005663.001
SHEET 83

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PLOTTED BY: Reshesh Rane
PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 3:32:45 PM

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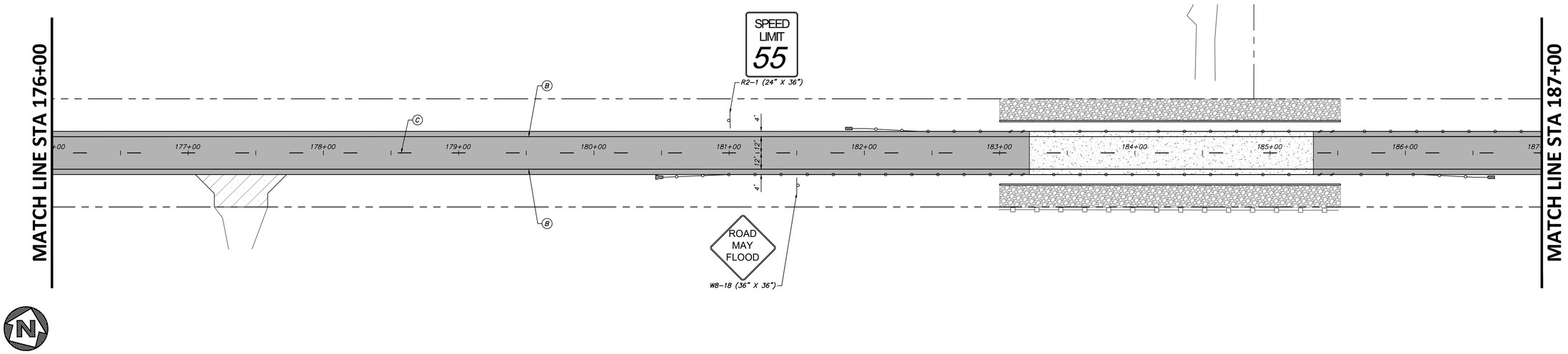
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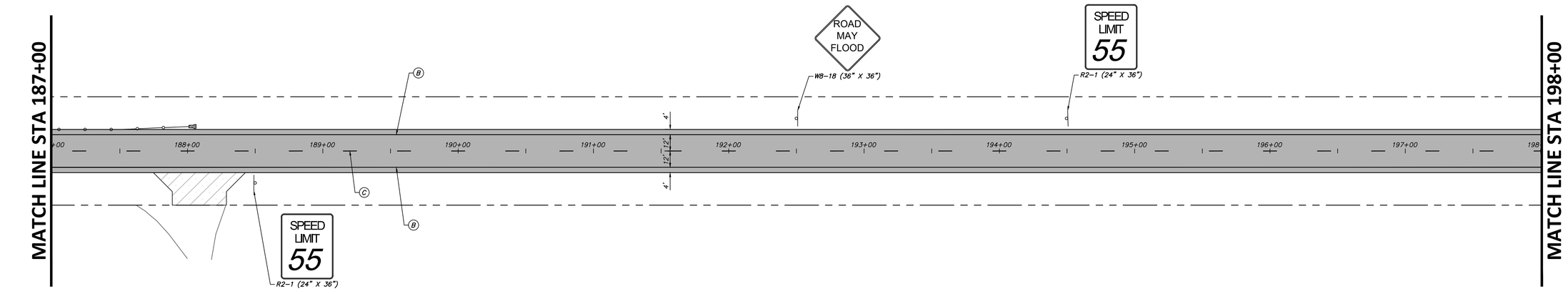
OFF-SITE BENCHMARK:

BRASS DISK SET IN CONCRETE STAMPED "T 1189 1967", LOCATED 38 FEET NORTH OF THE CENTERLINE OF WEST COUNTY ROAD 180 AND 150 FEET WEST OF THE CENTERLINE OF STATE HWY 349.
NAD83 GRID COORDINATES N: 10,648,880.14' E:1,765,914.09'
PUBLISHED ELEVATION: 2765.53' NAVD88 DATUM

BENCHMARK NOTE:

SEE GENERAL NOTES (SHEET 1) FOR DETAILS.





GRAPHIC SCALE IN FEET
40 0 20 40 80

NOTES:

1. INSTALL PAVEMENT MARKINGS AND SIGNAGE PER TxDOT STANDARDS AND DETAILS AND TEXAS MUTCD.
2. STRIPING TO FOLLOW ALIGNMENT STATIONING OF ROADWAY.
3. ALL PAVEMENT MARKING DIMENSIONS MEASURED FROM CENTER OF STRIPING.

PAVEMENT MARKINGS

- (A) REFL PAV MRK (W) 18" (SOLID)
- (B) REFL PAV MRK (W) 4" (SOLID)
- (C) REFL PAV MRK (Y) 4" (BRK)
- (D) REFL PAV MRK (Y) 4" DOUBLE (SOLID)
- INSTALL ROADSIDE SIGN

NO.	REVISION	BY	DATE

MMC — DESIGNED
MMC — DRAWN
JLB — CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1" = 40'
VERT N/A
DATE OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS

SIGNAGE AND PAVEMENT MARKINGS PLAN
STA 176+00 TO 198+00

DA PROJECT B005663.001

SHEET 84

FULL PATH: G:\Production\4000\005\005663\001\Civil\Drawings\Plot Sheets\SIGNAGE & PAVEMENT MARKINGS.dwg
FILENAME: SIGNAGE & PAVEMENT MARKINGS.dwg
PLOTTED BY: Rebekah Baker
PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 3:01:49 PM

Texas 811
Know what's below. Call before you dig.

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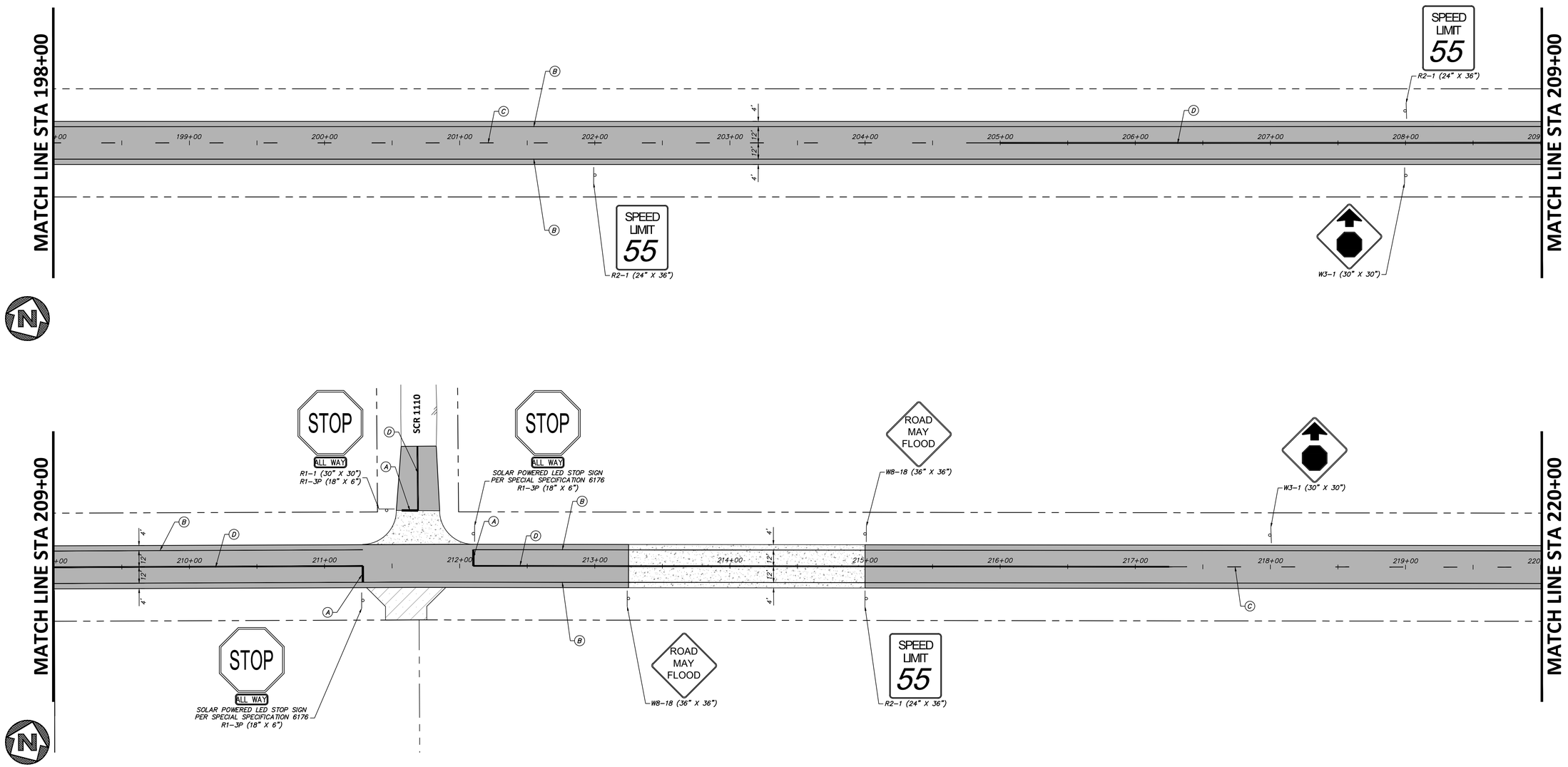
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NO.	REVISION	BY	DATE

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MMC DRAWN
JLB CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1" = 40'
VERT N/A
DATE OCTOBER 2022

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10/06/22
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JENNIFER L. BECKER
102960
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PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
SIGNAGE AND PAVEMENT MARKINGS PLAN
STA 198+00 TO 220+00

DA PROJECT B005663.001
SHEET 85

FILE PATH: G:\Production\4000\005\005\045\001\001\Civil\Drawings\Plot Sheets\SIGNAGE & PAVEMENT MARKINGS.dwg
FILENAME: SIGNAGE & PAVEMENT MARKINGS.dwg
PLOTTED BY: Rishesh Baker
PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 3:01:53 PM

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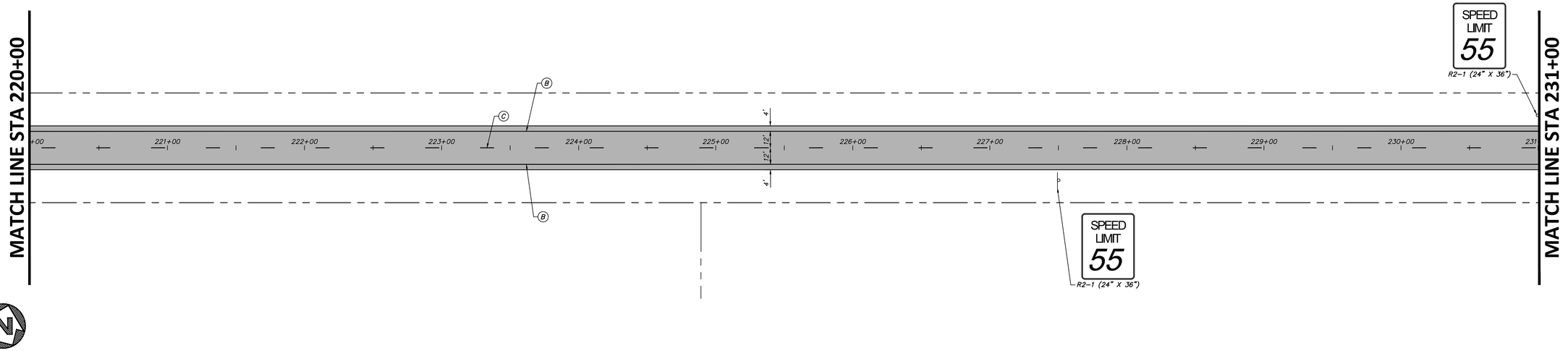
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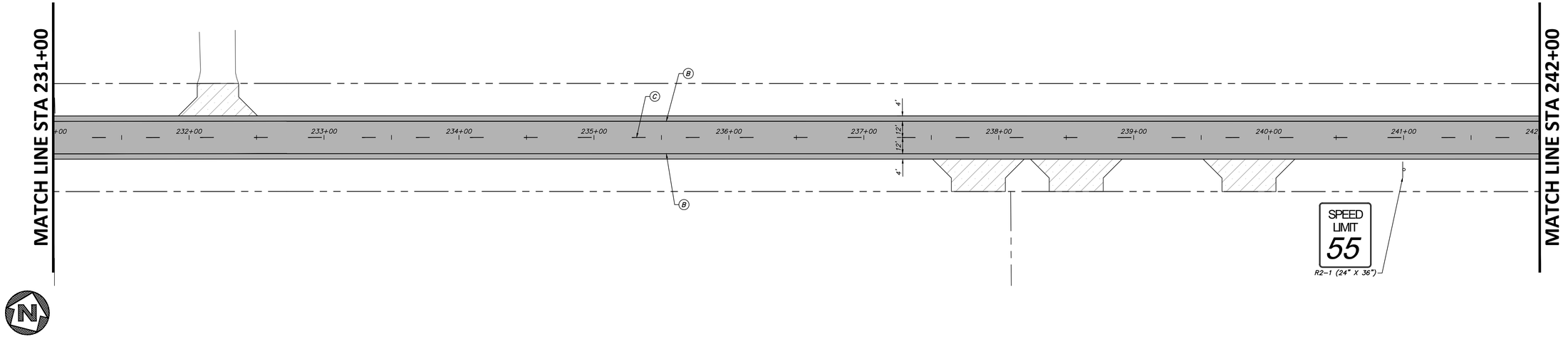
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NO.	REVISION	BY	DATE

DESIGNED: MMC
DRAWN: MMC
CHECKED: JLB

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1" = 40'
VERT N/A
DATE OCTOBER 2022

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

STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER
10/06/22

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
SIGNAGE AND PAVEMENT MARKINGS PLAN
STA 220+00 TO 242+00

DA PROJECT B005663.001
SHEET 86

FULL PATH: G:\Production\400\0\005600\5663\0001\Cad\Dunaway\Print Sheets\SIGNAGE & PAVEMENT MARKINGS.dwg
FILENAME: SIGNAGE & PAVEMENT MARKINGS.dwg
PLOTTED BY: Rebekah Baker
PLOTTED ON: Thursday, October 06, 2022
PLOTTED AT: 3:01:56 PM

Texas 811
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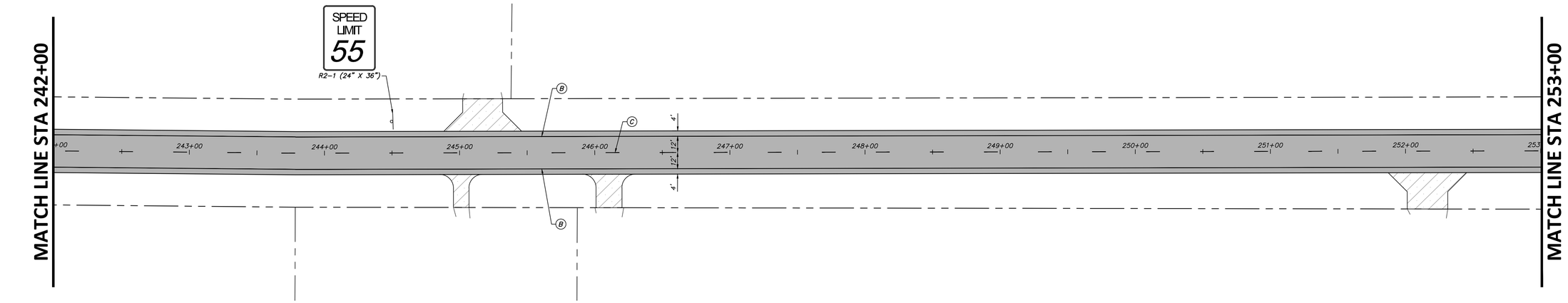
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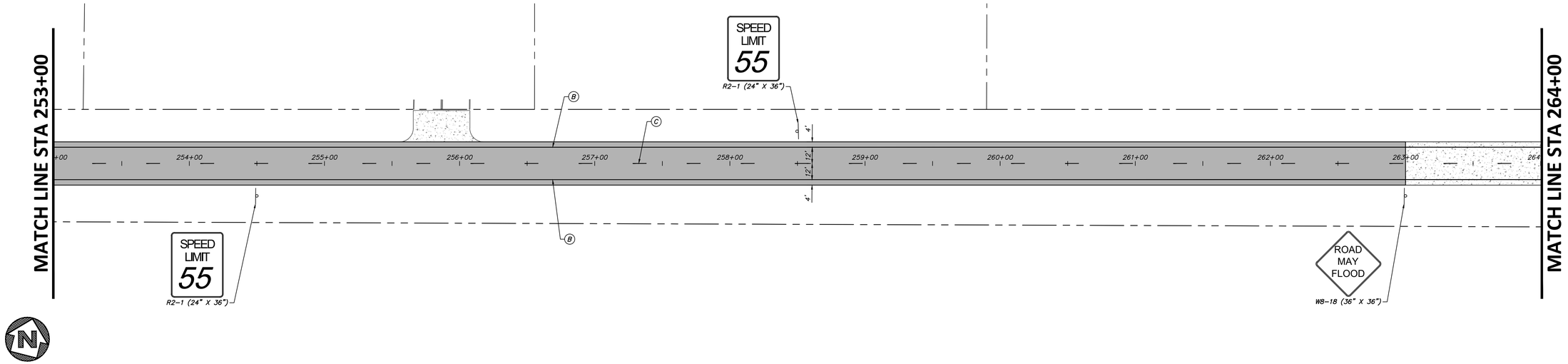
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NO.	REVISION	BY	DATE

MMC DESIGNED
MMC DRAWN
JLB CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1" = 40'
VERT N/A
DATE OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS

SIGNAGE AND PAVEMENT MARKINGS PLAN
STA 242+00 TO 264+00

DA PROJECT B005663.001
SHEET 87

FILE PATH: G:\Production\B005\005\005663\001\Civil\Drawings\Plot Sheet\SIGNAGE & PAVEMENT MARKINGS.dwg
FILENAME: SIGNAGE & PAVEMENT MARKINGS.dwg
PLOTTED BY: Rebekah Baker
PLOTTED ON: October 06, 2022
PLOTTED AT: 1:02:00 PM

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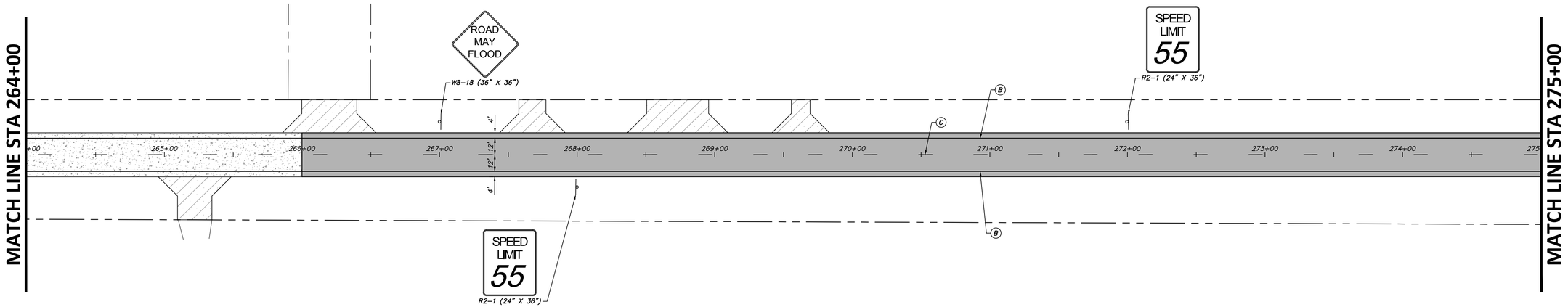
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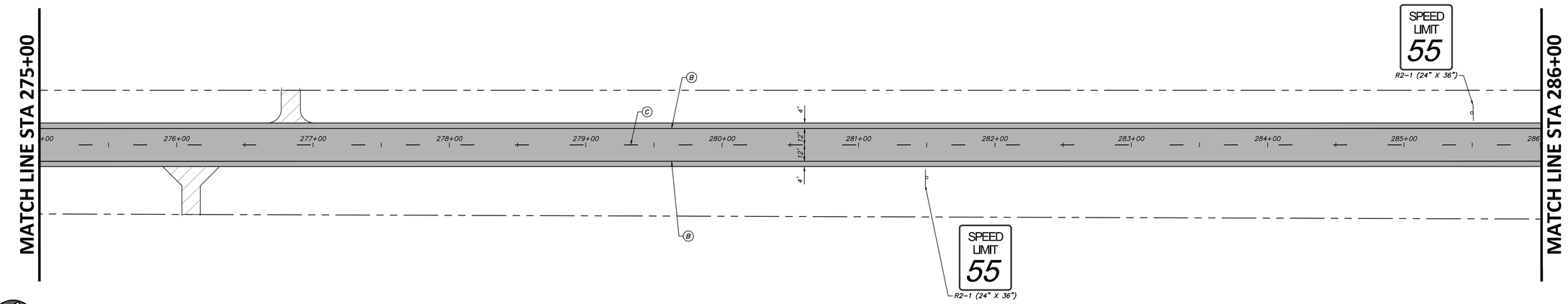
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MIDLAND, TEXAS

SCALE
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10/06/22
STATE OF TEXAS
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MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
SIGNAGE AND PAVEMENT MARKINGS PLAN
STA 264+00 TO 286+00

DA PROJECT B005663.001
SHEET 88

FILE PATH: G:\Production\4000\005\05\5663\001\Civil\Drawing\Plot Sheet\SIGNAGE & PAVEMENT MARKINGS.dwg
FILENAME: SIGNAGE & PAVEMENT MARKINGS.dwg
PLOTTED BY: Rebekah Baker
PLOT DATE: Thursday, October 06, 2022
PLOTTED AT: 3:02:04 PM

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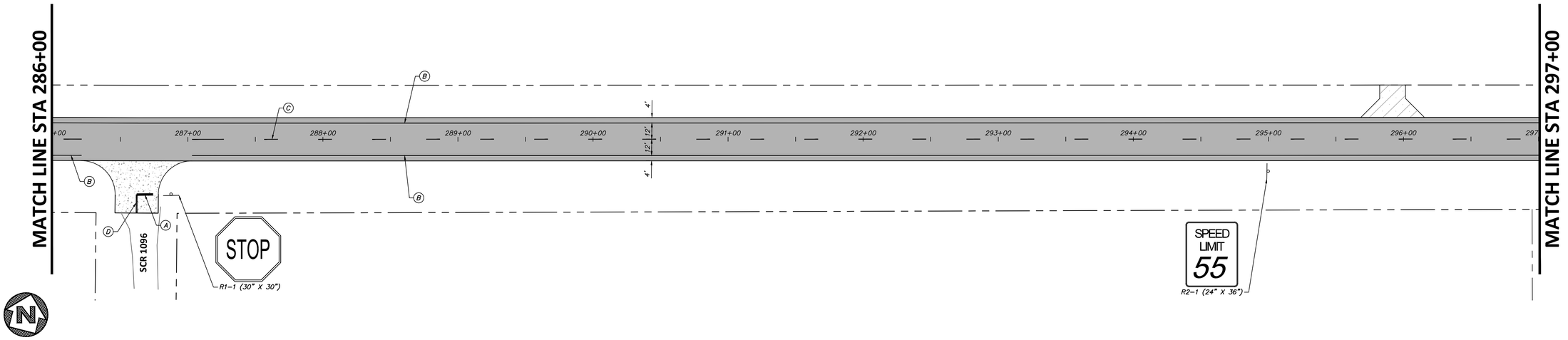
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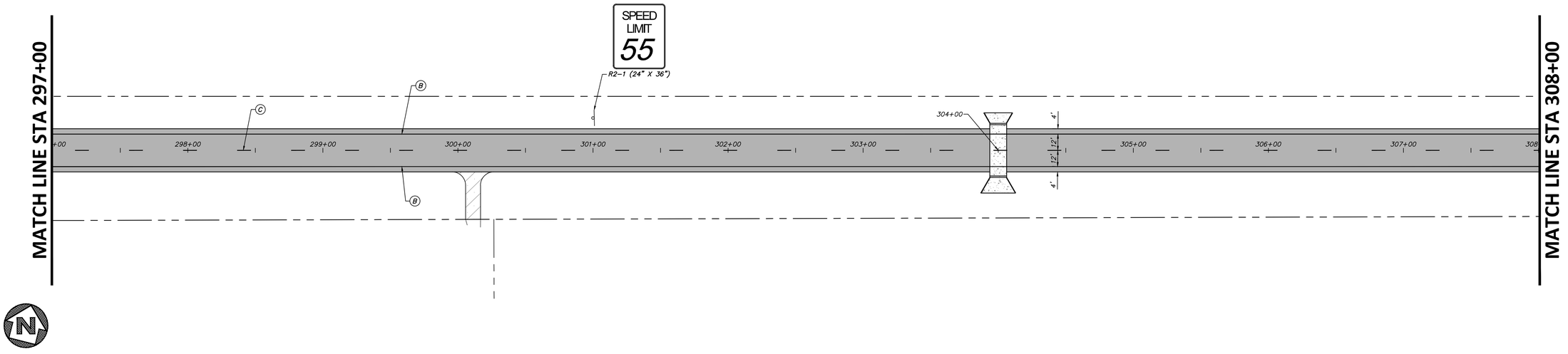
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10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
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MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
SIGNAGE AND PAVEMENT MARKINGS PLAN
STA 286+00 TO 308+00

DA PROJECT B005663.001
SHEET 89

FULL PATH: G:\Production\4000\005\005663\001\Civil\Drawings\Plot Sheets\SIGNAGE & PAVEMENT MARKINGS.dwg
FILENAME: SIGNAGE & PAVEMENT MARKINGS.dwg
PLOTTED BY: Rebekah Baker
PLOT DATE: Thursday, October 06, 2022
PLOTTED AT: 3:03:07 PM

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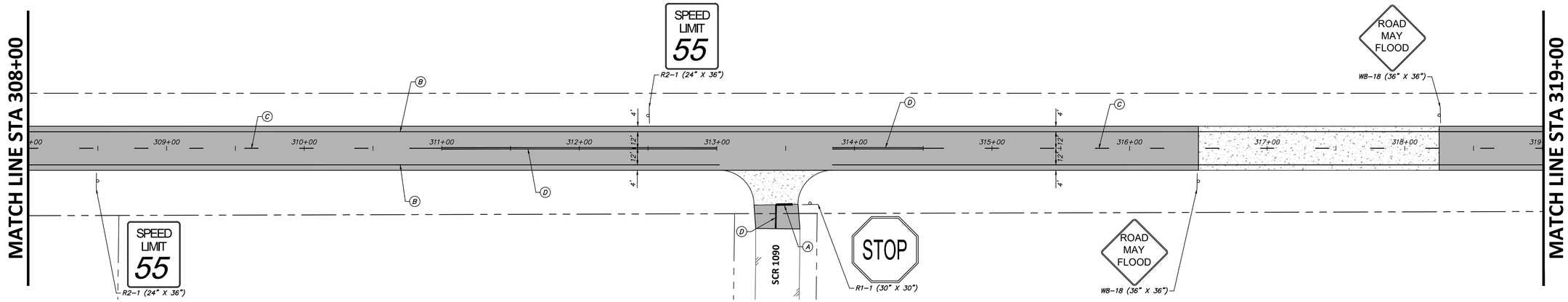
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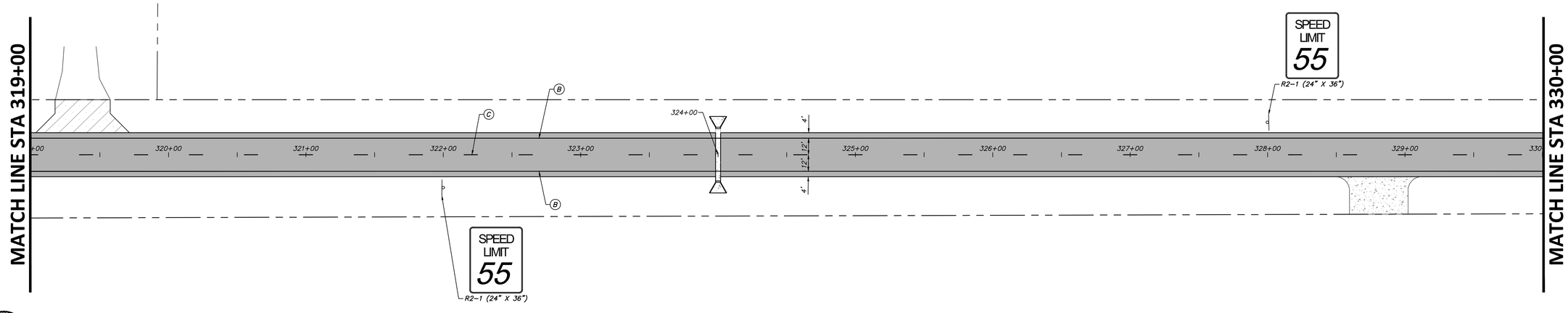
OFF-SITE BENCHMARK:

BRASS DISK SET IN CONCRETE STAMPED "T 1189 1967", LOCATED 38 FEET NORTH OF THE CENTERLINE OF WEST COUNTY ROAD 180 AND 150 FEET WEST OF THE CENTERLINE OF STATE HWY 349.
NAD83 GRID COORDINATES N: 10,648,880.14' E:1,765,914.09'
PUBLISHED ELEVATION: 2765.53' NAVD88 DATUM

BENCHMARK NOTE:

SEE GENERAL NOTES (SHEET 1) FOR DETAILS.





GRAPHIC SCALE IN FEET
40 0 20 40 80

NOTES:

1. INSTALL PAVEMENT MARKINGS AND SIGNAGE PER TxDOT STANDARDS AND DETAILS AND TEXAS MUTCD.
2. STRIPING TO FOLLOW ALIGNMENT STATIONING OF ROADWAY.
3. ALL PAVEMENT MARKING DIMENSIONS MEASURED FROM CENTER OF STRIPING.

PAVEMENT MARKINGS

- (A) REFL PAV MRK (W) 18" (SOLID)
- (B) REFL PAV MRK (W) 4" (SOLID)
- (C) REFL PAV MRK (Y) 4" (BRK)
- (D) REFL PAV MRK (Y) 4" DOUBLE (SOLID)
- INSTALL ROADSIDE SIGN

NO.	REVISION	BY	DATE

MMC — DESIGNED
MMC — DRAWN
JLB — CHECKED

MIDLAND COUNTY
MIDLAND, TEXAS

SCALE
HORIZ 1" = 40'
VERT N/A
DATE OCTOBER 2022

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

10/06/22
STATE OF TEXAS
JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS
SIGNAGE AND PAVEMENT MARKINGS PLAN
STA 308+00 TO 330+00

DA PROJECT B005663.001
SHEET 90

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FILENAME: SIGNAGE & PAVEMENT MARKINGS.dwg
PLOTTED BY: Rebekah Baker
PLOTTED ON: Wednesday, October 06, 2022
PLOTTED AT: 1:02:11 PM

Texas 811
Know what's below. Call before you dig.

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:

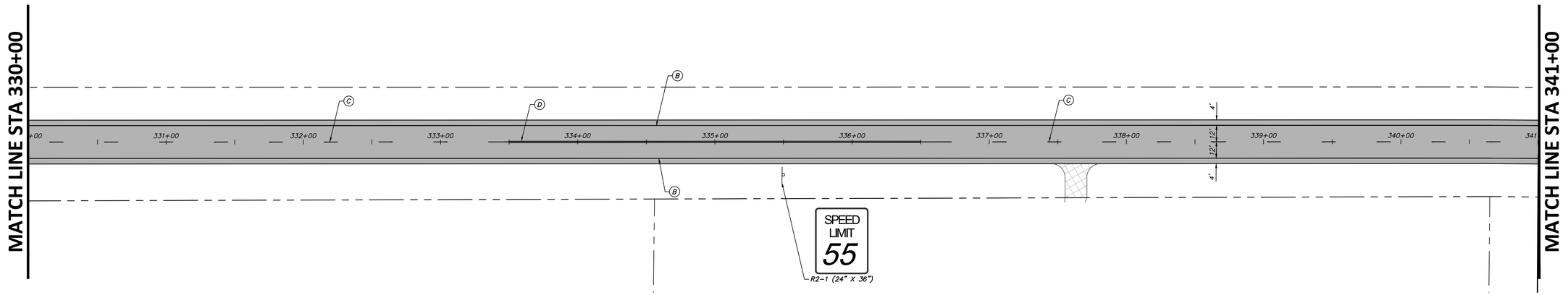
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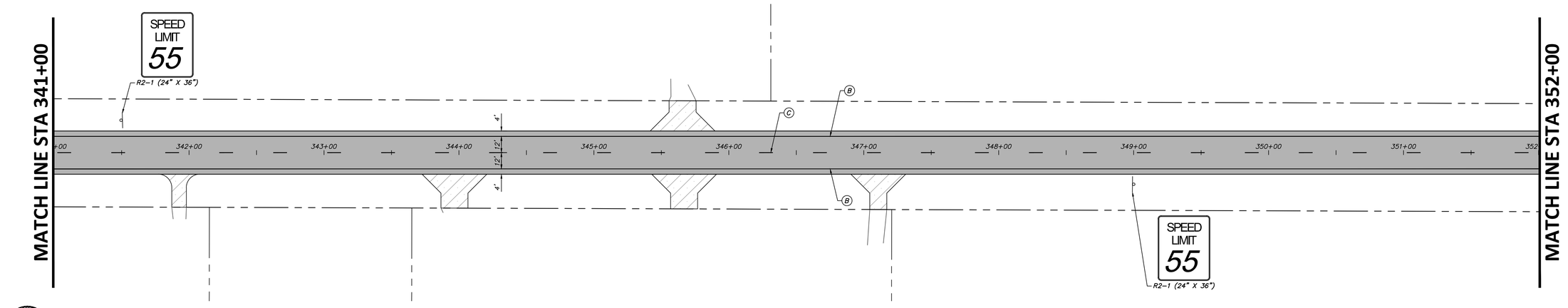
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10/06/22
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JENNIFER L. BECKER
102960
LICENSED
PROFESSIONAL ENGINEER

MIDLAND COUNTY PRECINCT 2
EAST COUNTY ROAD 120 - PHASE II
MIDLAND COUNTY, TEXAS

SIGNAGE AND PAVEMENT MARKINGS PLAN
STA 330+00 TO 352+00

DA PROJECT B005663.001
SHEET 91

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PLOT DATE: Thursday, October 06, 2022
PLOTTED AT: 3:02:14 PM

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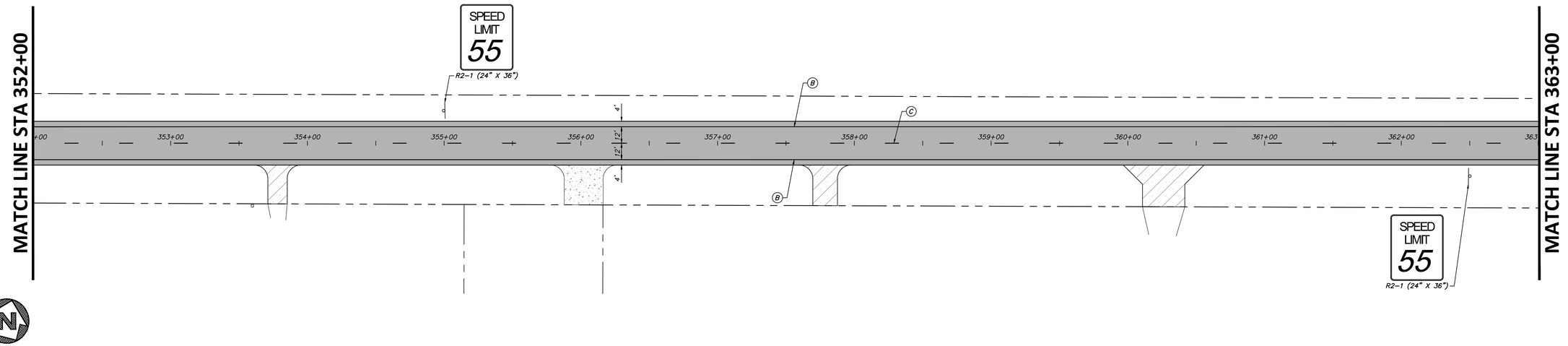
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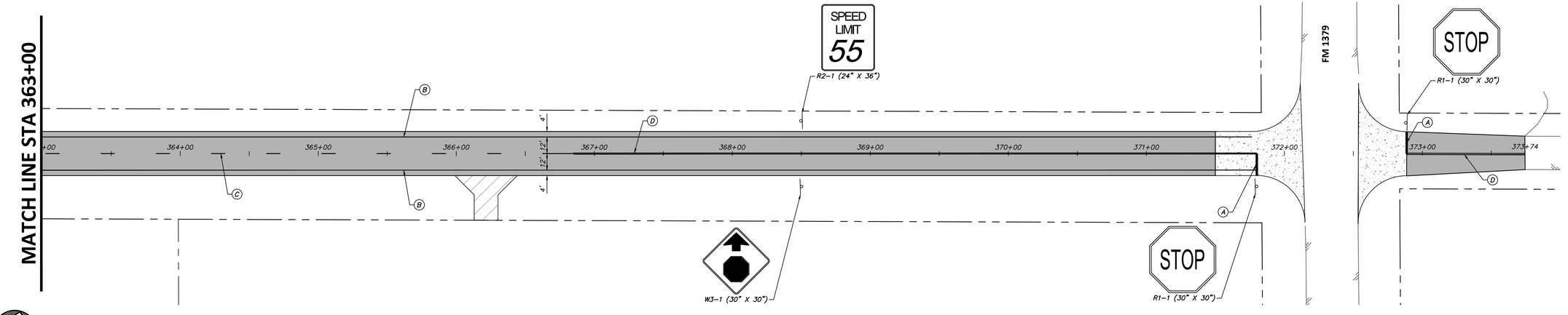
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MIDLAND COUNTY, TEXAS

SIGNAGE AND PAVEMENT MARKINGS PLAN
STA 352+00 TO END

DA PROJECT B005663.001
SHEET 92

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PLOTTED ON: October 06, 2022
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