DESIGN SPEED: 45 MPH

THE CITY OF MIDLOTHIAN, TEXAS

PAVING & DRAINAGE IMPROVEMENTS - 2021 BOND PROGRAM

MOCKINGBIRD LANE

FROM N MIDLOTHIAN PKWY TO N WALNUT GROVE RD - PROJECT NO. 272

City Officials:

Mayor:	Justin Coffman
Mayor Pro Tem:	Clark Wickliffe
City Council:	Richard Reno
	Kasey Cheshier
	Anna Hammonds
	Ross Weaver
	Wayne Shuffield

City Staff:

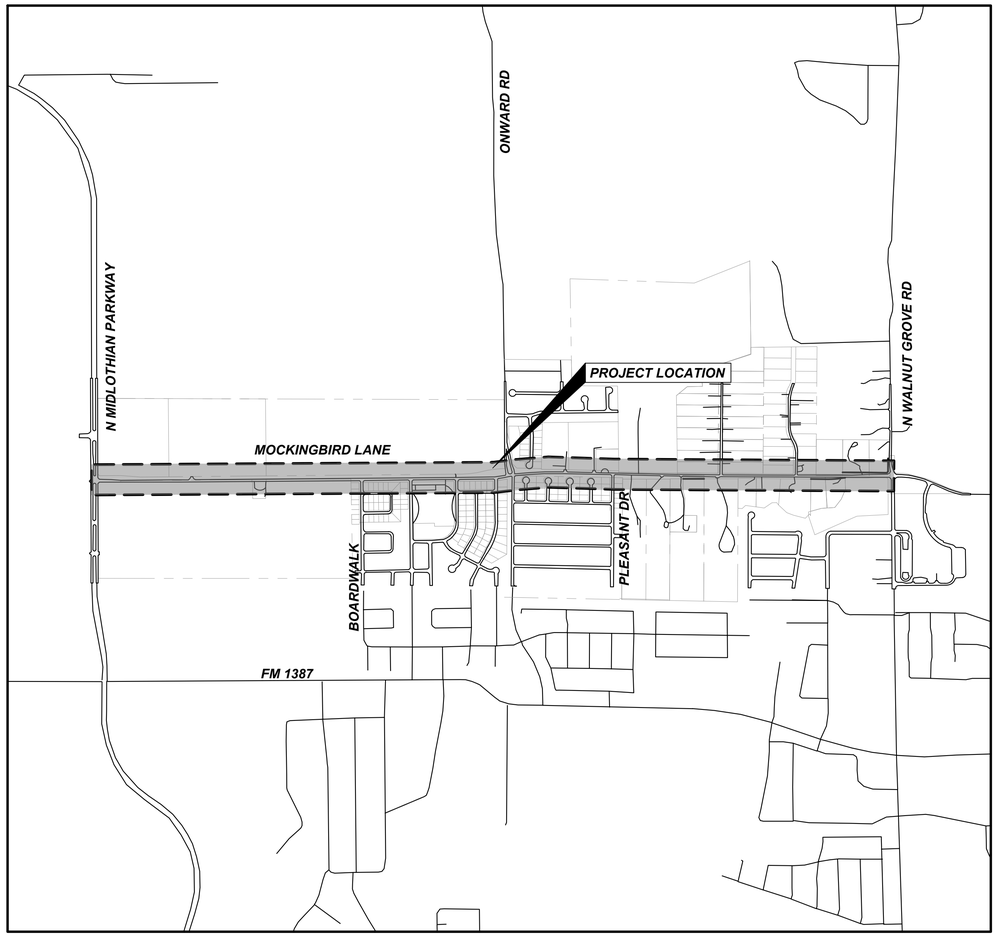
City Manager:	Chris Dick
Assistant City Manager:	Clyde Melick, AICP
Director of Public Works:	Adam Mergener
Director of Engineering & Utilities:	Mike Adams, P.E.
Assistant Director of Engineering:	Wilson Kakembo, P.E.
Assistant City Engineer:	Scott Morrow, P.E.

Midlothian TEXAS

Strong Foundations. Bright Futures.

Kimley»Horn

Texas Board Of Professional Engineers Firm Registration Number: F-928
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102, (817) 335-6511
Contact: Misty Christian, PE, CFM



PROJECT LENGTH = 2.00 MI (10597 FT)

N

LOCATION MAP
1" = 1000'

8/21/2026

STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

AUGUST 2026

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*20 - TXDOT_DETAIL - PRD-13 (SHEET 3 OF 3)
*21 - TXDOT_DETAIL - PSET-SP
*22 - TXDOT_DETAIL - PW
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, P.E.

*THE STANDARD TXDOT SHEETS, SPECIFICALLY IDENTIFIED IN THIS SHEET INDEX, HAVE BEEN SELECTED BY ME OR UNDER MY RESPONSIBLE SUPERVISION AS BEING APPLICABLE TO THIS PROJECT.

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

SHEET INDEX

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C0.02

Plotted, By: 2026-08-21 13:47:57 Cratty, Austin
Last Saved: 2026-08-21 12:47:47 (SHEET INDEX)
k:\ftw_roadway\061265047_midlothian mockingbird
Filename: lane\cadd\sheets\cover_and_index.dwg

GENERAL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING ALL AFFECTED RESIDENTS OF THE PROPOSED CONSTRUCTION. THE NOTIFICATIONS SHALL BE DISTRIBUTED TO EACH HOUSE SUFFICIENTLY IN ADVANCE (72 HRS PRIOR) OF THE CONSTRUCTION. THE NOTIFICATIONS SHALL BE APPROVED BY CITY STAFF PRIOR TO WORK COMMENCING. THIS SHALL BE CONSIDERED SUBSIDIARY TO THE COST OF THE PROJECT.

2. ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (N.C.T.C.O.G.) STANDARD SPECIFICATIONS FOR PUBLIC WORKS CONSTRUCTION FIFTH EDITION AND THE CITY OF MIDLOTHIAN SUBDIVISION RULES AND REGULATIONS AND CITY STANDARD CONSTRUCTION DETAILS FOR PAVING AND DRAINAGE EXCEPT WHERE MODIFIED IN THE PLANS OR THE SPECIFICATIONS.

3. IN THE EVENT AN ITEM IS NOT COVERED IN THE CITY OF MIDLOTHIAN STANDARD CONSTRUCTION DETAILS, SUBDIVISION ORDINANCE, OR N.C.T.C.O.G. STANDARD SPECIFICATIONS, THE CITY ENGINEER'S DECISION SHALL APPLY.

4. ALL TESTING SHALL BE IN ACCORDANCE WITH THE CITY OF MIDLOTHIAN'S CURRENT TESTING POLICIES.

5. THE CONTRACTOR IS TO NOTIFY THE CITY AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.

6. THE CONTRACTOR IS RESPONSIBLE FOR KEEPING STREETS AND PROPERTIES ADJACENT TO THE PROJECT FREE OF MUD AND DEBRIS FROM THE CONSTRUCTION AT ALL TIMES.

7. THE CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS BEFORE CONSTRUCTION BEGINS.

8. IT IS THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN A NEAT AND ACCURATE RECORD OF CONSTRUCTION FOR THE CITY'S RECORDS. AT THE CONCLUSION OF THE PROJECT, THE CONTRACTOR SHALL PROVIDE THE CITY FULL SIZE REPRODUCIBLE MARKUPS THAT RECORD ALL CONSTRUCTION DEVIATING FROM THE PLANS.

9. CONTRACTOR SHALL NOT STORE MATERIALS, EQUIPMENT OR OTHER CONSTRUCTION ITEMS ON ADJACENT PROPERTIES OR RIGHT-OF-WAY WITHOUT THE PRIOR WRITTEN CONSENT OF THE PROPERTY OWNER OR THE CITY (FOR R.O.W.) ALL CONSTRUCTION MATERIALS TO BE REMOVED SHALL BE DISPOSED OF AT A LEGAL DISPOSAL LOCATION OFF SITE, UNLESS WRITTEN APPROVAL IS OBTAINED FROM THE PROPERTY OWNER. DISTURBED AREAS SHALL BE RESTORED TO ORIGINAL OR BETTER CONDITION. THIS SHALL BE CONSIDERED SUBSIDIARY TO THE COST OF THE PROJECT.

10. THE CONTRACTOR SHALL REPAIR THE STAGING AREA(S) TO EXISTING OR BETTER CONDITIONS. THE ENGINEER CAN NOT ANTICIPATE THE AREAS THAT WILL BE DISTURBED DURING CONSTRUCTION. THEREFORE, IT IS THE CONTRACTOR'S RESPONSIBILITY TO INCLUDE IN HIS BID (MOBILIZATION PAY ITEM) COSTS ASSOCIATED WITH RESTORING ALL DISTURBED AREAS..

11. THE CONTRACTOR SHALL TAKE ALL AVAILABLE PRECAUTIONS TO CONTROL DUST. CONTRACTOR SHALL CONTROL DUST BY SPRINKLING WATER, OR AS APPROVED BY THE ENGINEER. THIS SHALL BE CONSIDERED SUBSIDIARY TO THE COST OF THE PROJECT.

12. ALL ADJACENT PROPERTY DAMAGED BY THE PROPOSED CONSTRUCTION SHALL BE RESTORED TO EQUAL OR BETTER CONDITION THAN WHICH IT WAS FOUND BEFORE SUCH WORK WAS UNDERTAKEN. THE CONTRACTOR SHALL VIDEOTAPE THE ENTIRE PROJECT CORRIDOR AND PROVIDE A COPY OF THE TAPE TO THE CITY PRIOR TO CONSTRUCTION (NON-PAY ITEM).

13. ALL AREAS WITHIN THE LIMITS OF CONSTRUCTION DISTURBED SHALL BE SODDED. CONTRACTOR IS RESPONSIBLE FOR DISTURBED AREA OUTSIDE THE LIMITS SHOWN ON THE PLANS. ALL AREAS DISTURBED SHALL BE SODDED WITH THE ORIGINAL SPECIES PRESENT AT EACH PROPERTY. WATER SHALL BE SUBSIDIARY TO THE COST OF THE SOD.

14. THE CONTRACTOR WILL BE RESPONSIBLE FOR PERFORMING CONSTRUCTION LAYOUT (STAKING) FROM THE SITE LAYOUT CONTROL POINTS, AND FROM THE DIMENSIONS AND CENTERLINES SHOWN. HOWEVER, THE CONTRACTOR MUST NOTIFY THE ENGINEER OF ANY DISCREPANCIES PRIOR TO THE START OF CONSTRUCTION (NON-PAY ITEM).

15. THE CONTRACTOR SHALL RE-ESTABLISH ANY PROPERTY MARKER, BENCHMARK, ETC. DISTURBED DURING CONSTRUCTION TO ITS ORIGINAL LOCATION AND ELEVATION (NON-PAY ITEM).

16. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE VERTICAL AND HORIZONTAL CONTROL SHOWN ON THE PLANS THROUGHOUT THE PROJECT.

17. THE CONTRACTOR SHALL GIVE THE CITY A MINIMUM OF 5 DAYS NOTICE PRIOR TO THE TIME A STREET SIGN IS TO BE REMOVED DUE TO CONSTRUCTION OPERATIONS. AT NO TIME SHALL THE CONTRACTOR REMOVE OR RELOCATE A STOP OR YIELD SIGN WITHOUT THE APPROVAL OF THE CITY.

18. THE CONTRACTOR SHALL NOT BE PERMITTED TO COMMENCE WORK BEFORE SUNRISE AND SHALL ARRANGE HIS WORK SO THAT NO MACHINERY OR EQUIPMENT SHALL BE CLOSER THAN 30 FEET FROM ANY TRAVEL LANES AFTER SUNSET EXCEPT AS AUTHORIZED BY THE CITY.

19. WHERE THE CONTRACTOR DESIRES TO MOVE EQUIPMENT NOT LICENSED FOR OPERATION ON PUBLIC HIGHWAYS ON OR ACROSS ANY PAVEMENT, HE SHALL PROTECT THE PAVEMENT FROM ALL DAMAGE.

20. THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING ALL UTILITIES, WHETHER PRIVATE OR PUBLIC, PRIOR TO EXCAVATION. THE INFORMATION AND DATA SHOWN IN THESE PLANS WITH RESPECT TO EXISTING UNDERGROUND FACILITIES AT OR CONTIGUOUS TO THE SITE IS APPROXIMATE AND BASED ON INFORMATION FURNISHED BY THE OWNERS OF SUCH UNDERGROUND FACILITIES OR ON PHYSICAL APPURTENANCES OBSERVED IN THE FIELD. THE OWNER AND ENGINEER SHALL NOT BE RESPONSIBLE FOR THE ACCURACY OR COMPLETENESS OF ANY SUCH INFORMATION OR DATA; AND, THE CONTRACTOR SHALL HAVE FULL RESPONSIBILITY FOR REVIEWING AND CHECKING ALL SUCH INFORMATION AND DATA, FOR LOCATING ALL UNDERGROUND FACILITIES, FOR COORDINATION OF THE WORK WITH THE OWNERS OF SUCH UNDERGROUND FACILITIES DURING CONSTRUCTION, FOR THE SAFETY AND PROTECTION THEREOF, AND REPAIRING ANY DAMAGE THERETO RESULTING FROM THE WORK. THE COST OF ALL WILL BE CONSIDERED AS HAVING BEEN INCLUDED IN THE CONTRACT PRICE. THE CONTRACTOR SHALL NOTIFY ANY AFFECTED UTILITY COMPANIES OR AGENCIES IN WRITING AT LEAST 48 HOURS PRIOR TO BEGINNING CONSTRUCTION.

21. THE CONTRACTOR SHALL PROTECT ALL FRANCHISE UTILITIES (INCLUDING POWER POLES, TELEPHONE RISERS, ETC.) DURING ALL CONSTRUCTION PHASES. THE CONTRACTOR SHALL PROTECT AND SALVAGE ALL EXISTING CITY UTILITY APPURTENANCES IN ACCORDANCE WITH CITY REQUIREMENTS AND PROVIDE TO THE CITY (IF REMAINING). A GAS LINE CROSSES THE PROPOSED PROJECT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR INCLUDING COSTS ASSOCIATED WITH WORKING NEAR A GAS LINE IN HIS BID.

22. 10" MAGELLAN GAS LINE IN AREA. CONTRACTOR TO TAKE CAUTION. MAGELLAN REPRESENTATIVE (FIRST LAST XXX-XXX-XXXX) SHALL BE ON SITE DURING CONSTRUCTION AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING WITH HIM AT LEAST 3 DAYS PRIOR TO CONSTRUCTION. NO HEAVY EQUIPMENT OR EXCAVATION WILL BE ALLOWED IN THE AREA OVER OR NEAR THE GAS LINE. ALL EFFORTS ASSOCIATED WITH MAGELLAN GAS SHALL BE CONSIDERED SUBSIDIARY TO THE COST OF THE PROJECT.

23. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRENCH SAFETY REQUIREMENTS IN ACCORDANCE WITH TEXAS STATE LAW AND O.S.H.A. TRENCH SAFETY PLAN STANDARDS FOR ALL EXCAVATION IN EXCESS OF FIVE FEET IN DEPTH. NO UTILITY TRENCHES WILL BE ALLOWED OVERNIGHT WITHOUT THE PRIOR WRITTEN APPROVAL OF THE CITY. ONSITE SAFETY IS THE SOLE RESPONSIBILITY OF THE CONTRACTOR.

24. CONTRACTOR SHALL SAW-CUT TO PROVIDE SMOOTH TRANSITION AT TIE-IN TO EXISTING EDGE OF PAVEMENT AND MEET EXISTING PAVEMENT AS NECESSARY TO ENSURE POSITIVE DRAINAGE. SAW-CUTTING SHALL BE SUBSIDIARY TO THE COST OF THE PAVEMENT.

25. CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING EXISTING FENCING ALONG THE PROJECT UNLESS OTHERWISE NOTED.

26. CONTRACTOR SHALL PROTECT TREES AS NOTED IN PLANS. ANY DAMAGE TO TREES SHALL BE REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE.

27. REMOVAL OF EXISTING SIGNS AND PAVEMENT MARKINGS SHALL BE CONSIDERED SUBSIDIARY TO THE COST OF THE PROJECT.

28. ALL RIGHT OF WAY AND EASEMENTS ARE ACQUIRED FOR PROJECT. CONTRACTOR RESPONSIBLE FOR IDENTIFYING LOCATION OF RIGHT OF WAY AND EASEMENTS AND ENSURING ALL CONSTRUCTION IS DONE WITHIN THESE LIMITS. RIGHT OF WAY AND EASEMENT STAKING SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR AND SHALL BE CONSIDERED SUBSIDIARY TO THE COST OF THE PROJECT.

29. PLEASE NOTE THERE ARE SPECIFIC REQUIREMENTS FOR EACH PROPERTY INCLUDING RIGHT OF ENTRY, FENCING AND TREE REMOVALS. CONTRACTOR SHALL FAMILIARIZE HIMSELF WITH THE PLANS AND REQUIREMENTS DURING THE BIDDING PROCESS TO ENSURE ALL ITEMS AND EFFORTS ARE INCLUDED IN THE BID. NO EXTRA PAY WILL BE PROVIDED FOR NOT UNDERSTANDING THE REQUIREMENTS.

PAVING NOTES

1. ALL PAVING DIMENSIONS ARE TO EDGE OF PAVEMENT AND/OR FACE OF CURB UNLESS OTHERWISE NOTED.

2. THE CONTRACTOR SHALL PROTECT NEW AND EXISTING PAVEMENT FROM TRACK MARKS AND/OR CRACKING DURING CONSTRUCTION. THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO THE COST OF THE PROJECT.

3. ALL PAVEMENT CUTS ARE TO BE NEAT SAW CUT LINES. ALL PAVEMENT SHALL BE SAW CUT PRIOR TO EXCAVATION. SAW-CUTTING SHALL BE CONSIDERED SUBSIDIARY TO THE COST OF THE PROJECT.

4. LONGITUDINAL JOINT LOCATIONS ARE TO BE DETERMINED BY THE OWNER IN THE FIELD.

5. JOINT SEALANT SHALL BE PLACED AT ALL JOINTS, INCLUDING CONSTRUCTION JOINTS, EXPANSION JOINTS, ETC. JOINT SEALANT SHALL BE PER NCTCOG SPECIFICATIONS. THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO THE COST OF THE PROJECT.

6. TACK COATS SHALL BE CONSIDERED SUBSIDIARY TO THE COST OF THE PROJECT.

7. CONNECTING PROPOSED SIDEWALK AND PAVEMENT TO EXISTING PAVEMENT SHALL BE CONSIDERED SUBSIDIARY TO THE COST OF THE PROJECT. CONTRACTOR SHALL DOWEL PROPOSED PAVEMENT INTO EXISTING PAVEMENT.

8. CONTRACTOR RESPONSIBLE FOR ENSURING THAT ALL ADA REQUIREMENTS ARE MET FOR PROPOSED SIDEWALK AND BARRIER FREE RAMPS.

9. BARRIER FREE RAMPS SHALL HAVE POLYTILE TRUNCATED DOMES, NOT PAVERS, UNLESS OTHERWISE DIRECTED BY THE CITY.

STORM DRAIN NOTES

1. ALL STORM DRAIN SHALL BE PAID FOR BY THE HORIZONTAL LINEAR FOOT BASIS. MEASUREMENT OF THE PIPE SHALL BE TO THE INSIDE FACE OF THE INLET/MANHOLE. ALL STORM DRAIN SHALL BE PAID FOR IN ACCORDANCE WITH NCTCOG SPECIFICATIONS.

2. ALL CONCRETE FOR DRAINAGE STRUCTURES SHALL MEET NCTCOG STANDARD AND CITY SPECIFICATIONS.

3. REMOVAL OF EXISTING STORM DRAIN PIPES SHALL BE PAID FOR UNDER THE "GENERAL SITE PREPARATION" PAY ITEM UNLESS OTHERWISE NOTED. THE ENGINEER ATTEMPTED TO SHOW THE LOCATION OF THE EXISTING STORM DRAIN FACILITIES. HOWEVER, THE ACTUAL LOCATION OF THE FACILITIES MAY VARY.

4. THE CONTRACTOR SHALL VERIFY AND COORDINATE ALL DIMENSIONS SHOWN, INCLUDING THE HORIZONTAL AND VERTICAL LOCATION OF CURB INLETS AND ALL UTILITIES CROSSING THE STORM SEWER.

5. PROPOSED STORM SEWER MANHOLES SHALL BE SET TO EXISTING ELEVATIONS UNTIL THE CONSTRUCTION OF THE PROPOSED ROADWAY. CONTRACTOR SHALL ADJUST ALL STORM SEWER MANHOLES TO FINAL ELEVATIONS AFTER ALL ROADWAY CONSTRUCTION IS COMPLETE. THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO THE COST OF THE PROJECT.

6. LOCATION OF ALL UNDERGROUND UTILITIES AND STORM DRAINAGE FACILITIES IN THE AREA OF STORM DRAIN CONSTRUCTION AND OTHER AREAS OF POSSIBLE CONFLICT SHALL BE UNCOVERED TO DETERMINE EXACT LOCATIONS PRIOR TO START OF CONSTRUCTION. THIS WORK SHALL BE CONSIDERED SUBSIDIARY TO THE COST OF THE PROJECT.

TRAFFIC CONTROL NOTES

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR SUBMITTING A PROPOSED TRAFFIC CONTROL PLAN TO THE ENGINEER FOR APPROVAL PRIOR TO CONSTRUCTION. PREPARATION OF THE TRAFFIC CONTROL PLAN SHALL BE PAID FOR UNDER A LUMP SUM PAY ITEM.

2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING OF ALL TRAFFIC CONTROL DEVICES THROUGHOUT CONSTRUCTION.

3. THE EXISTING MOCKINGBIRD LANE SHALL REMAIN OPEN DURING CONSTRUCTION AND THE CONTRACTOR SHALL MAINTAIN ACCESS FOR ALL RESIDENTS ON THE STREET.

4. ALL BARRICADES, WARNING SIGNS, LIGHTS, DEVICES, ETC. FOR THE GUIDANCE AND PROTECTION OF TRAFFIC AND PEDESTRIANS SHALL CONFORM TO THE INSTALLATION AND LOCATION GUIDELINES SHOWN IN THE LATEST VERSION OF THE TEXAS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD), AS CURRENTLY AMENDED, AS PUBLISHED BY THE TEXAS DEPARTMENT OF TRANSPORTATION.

5. BARRICADES AND SIGNS SHALL BE PLACED IN SUCH A MANNER AS NOT TO INTERFERE WITH THE SIGHT DISTANCE OF DRIVERS ENTERING THE ROADWAYS OR SIDE STREETS.

6. IF THE CONTRACTOR DAMAGES EXISTING SIGNAGE, HE SHALL REPLACE THE SIGNAGE TO EQUAL OR BETTER CONDITION AT THE CONTRACTOR'S OWN EXPENSE.

7. IF AT ANY TIME DURING CONSTRUCTION THE CONTRACTORS PROPOSED PLAN OF OPERATION FOR HANDLING TRAFFIC CONTROL DOES NOT PROVIDE FOR SAFE, COMFORTABLE MOVEMENT, THE CONTRACTOR SHALL IMMEDIATELY CHANGE HIS OPERATIONS TO CORRECT THE UNSATISFACTORY CONDITION(S) AND NOTIFY THE ENGINEER.

EROSION CONTROL NOTES

1. TEMPORARY EROSION CONTROL, SEDIMENTATION, AND WATER POLLUTION PREVENTION AND CONTROL (LUMP SUM) INCLUDES SILT FENCE, INLET PROTECTION AT ALL INLETS WITHIN THE LIMITS OF CONSTRUCTION, AS WELL AS DOWNSTREAM FACILITIES. ALL TEMPORARY EROSION CONTROL, SEDIMENTATION, AND WATER POLLUTION PREVENTION AND CONTROL MUST BE IN ACCORDANCE WITH THE FIFTH EDITION OF N.C.T.C.O.G. STANDARD SPECIFICATION.

2. CONTRACTOR SHALL BE RESPONSIBLE FOR PREPARING, SUBMITTING, AND POSTING THE NOTICE OF INTENT AND STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IN ACCORDANCE WITH STATE RULES AND REGULATIONS.

3. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REMOVAL OF EROSION CONTROL DEVICES AFTER FINAL ACCEPTANCE OF THE PROJECT. THIS SHALL BE CONSIDERED SUBSIDIARY TO THE COST OF THE PROJECT.

4. 70% VEGETATION MUST BE ESTABLISHED BEFORE EROSION CONTROL MEASURES MAY BE REMOVED. OWNER TO DETERMINE ADEQUATE TIME OF EROSION CONTROL MEASURE REMOVAL.

FIBER COMMUNICATIONS NOTES

1. BOXES SHALL BE COMPRISED OF FIBER REINFORCED POLYMER (FRP) BODY, MEASURING A MINIMUM OF 2'X3'X2' DEEP, WITH MINIMUM MEDIUM DUTY, TIER 15 RATED (15,000 LB) FLUSH-STYLE SOLID POLYMER CONCRETE LID. LID SHALL BE COMPRISED OF A NON-SKID SURFACE, WITH LIFT PINS AND STAINLESS STEEL HEX HEAD BOLT FASTENERS AND MARKED "CITY FIBER." FRP BODY AND POLYMER CONCRETE LID SHALL BE AS MANUFACTURED BY OLDCASTLE INFRASTRUCTURE OR APPROVED EQUIVALENT. ALL BOXES SHALL BE SET LEVEL AND STRAIGHT, WITH THE TOP OF THE LID MATCHING THE ADJACENT FINISHED GRADE ELEVATION AND SHALL BE CLEAN AND FREE OF DEBRIS.

2. 2" DIAMETER, SMOOTH WALL ROLLED POLY PIPE, SDR 13.5 (MINIMUM) WITH FLAT, PRE-LUBRICATED PULL TAPE AND TRACER WIRE INSTALLED, AS MANUFACTURED BY INNERDUCT.COM OR APPROVED EQUIVALENT. POLY PIPE IS TO BE ORANGE IN COLOR (FOR COMMUNICATION) AND UPON INSTALLATION, THE STRUCTURAL INTEGRITY SHALL BE FIELD VERIFIED IN ACCORDANCE WITH INDUSTRY STANDARDS. THE PIPE INTERIOR SHALL REMAIN FREE OF FOREIGN OBJECTS AND DEBRIS AT ALL TIMES. ALL PIPE ENDS SHALL BE SEALED UTILIZING SUITABLE DUCT PLUGS (KWIKIE OR MECHANICAL PLUGS WITH LOOP NUTS OR TAPERED POLYETHYLENE PLUGS). CONDUIT SHALL BE INSTALLED A MINIMUM OF 2' DEEP, AS MEASURED FROM THE TOP OF THE CONDUIT TO THE TOP OF FINISHED GRADE, UNLESS OTHERWISE PERMITTED.

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

GENERAL NOTES

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C0.03

Plotted By: 2026-08-21 11:28:18, Del Rosso, Austin
Last Saved: 2026-07-30 09:19:27 (GENERAL NOTES)
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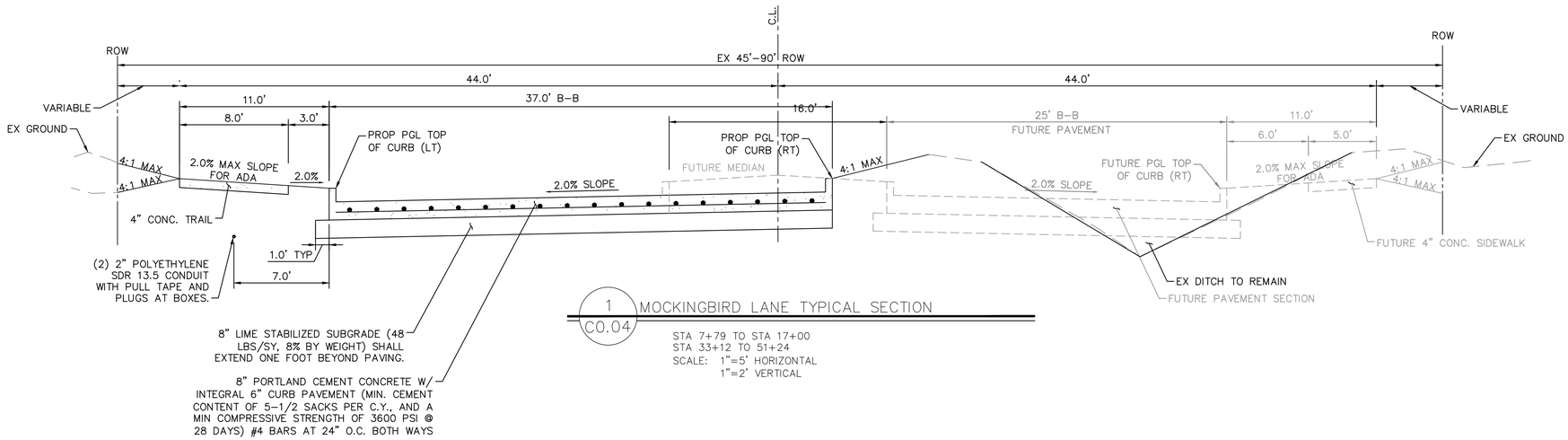
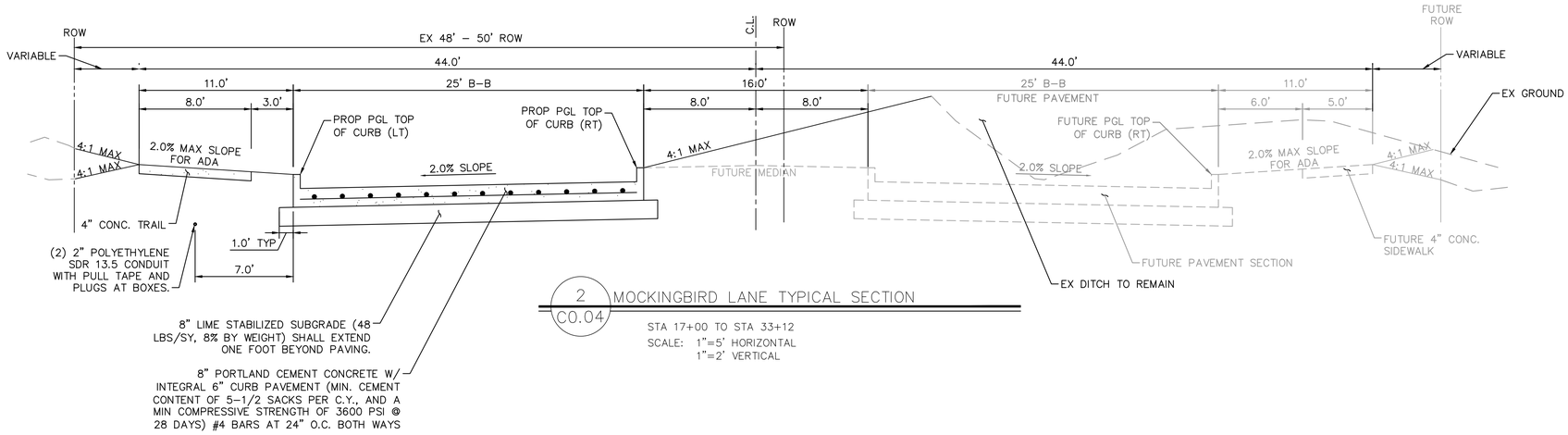


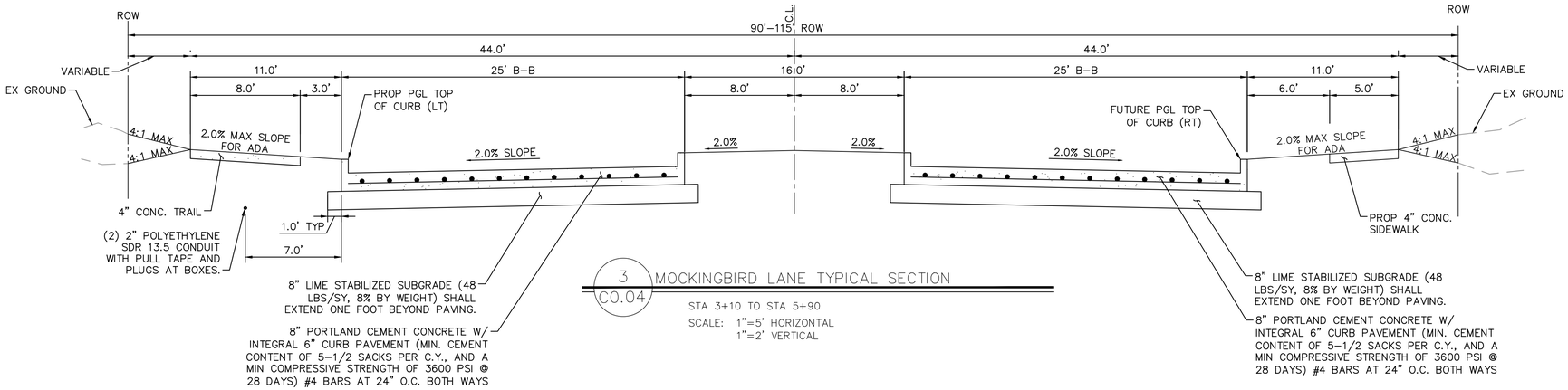
1 C0.04 MOCKINGBIRD LANE TYPICAL SECTION

STA 7+79 TO STA 17+00
STA 33+12 TO 51+24
SCALE: 1"=5' HORIZONTAL
1"=2' VERTICAL



2 C0.04 MOCKINGBIRD LANE TYPICAL SECTION

STA 17+00 TO STA 33+12
SCALE: 1"=5' HORIZONTAL
1"=2' VERTICAL



3 C0.04 MOCKINGBIRD LANE TYPICAL SECTION

STA 3+10 TO STA 5+90
SCALE: 1"=5' HORIZONTAL
1"=2' VERTICAL

NOTES:
1. FOR TYPICAL SECTIONS 1 AND 2, THE INTENT IS FOR THE CONTRACTOR TO TIE INTO EX GROUND AT THE EDGE OF EXISTING PAVEMENT IN ORDER TO MAINTAIN THE EXISTING DITCH ON THE SOUTH SIDE OF THE ROADWAY.
2. ALL PARKWAYS SHALL BE SOD UNLESS OTHERWISE NOTED ON THE PLANS.
3. COMPACT SUBGRADE TO 95% OF STANDARD PROCTOR DENSITY AND ±2% OF OPTIMUM MOISTURE.

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

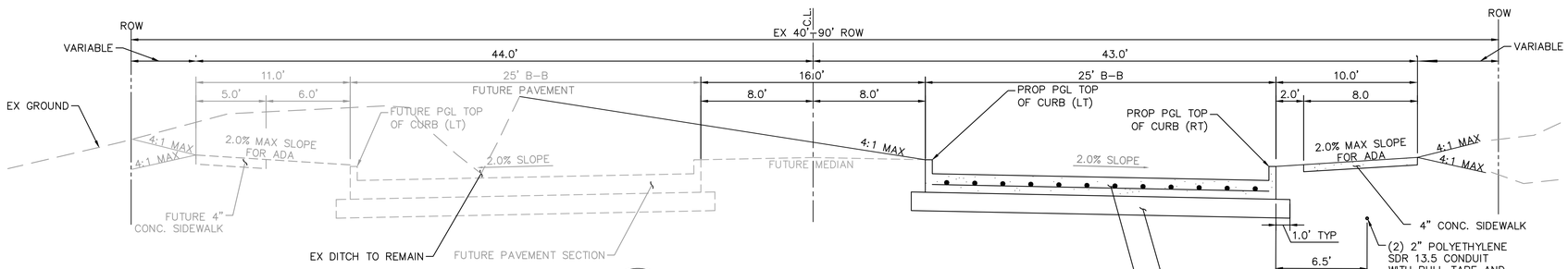
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

TYPICAL SECTIONS
- (SHEET 1 OF 3)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

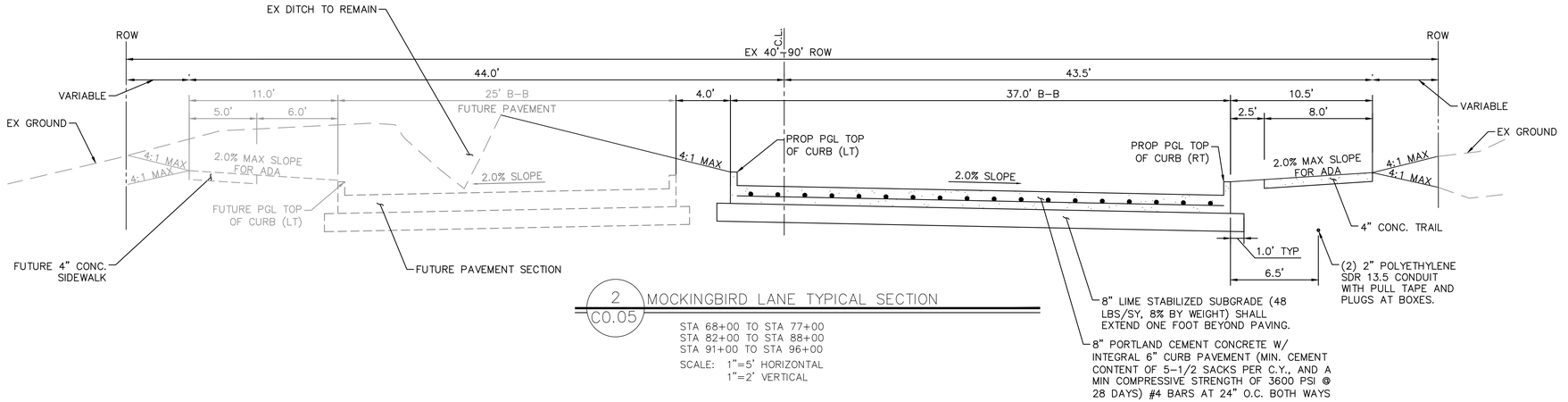
SHEET NUMBER
C0.04

Plotted By: 3))
Last Saved: 2026-08-21 11:20:34 k:\ftw_roadway\061265047_midlothian mockingbird
Filename: lane\cadd\base\xtypical.dwg
2026-08-21 11:28:26, Del Rosso, Austin (TYPICAL SECTIONS - (SHEET 1 OF



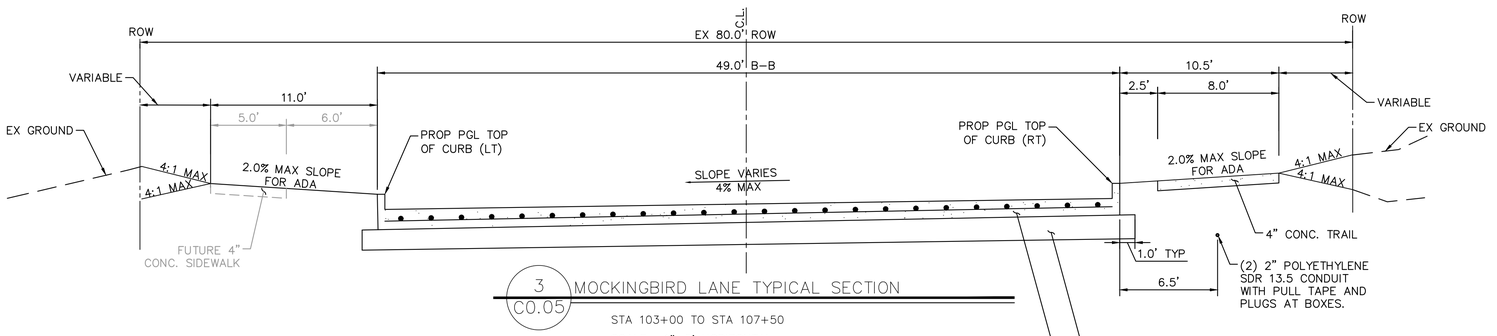
1 C0.05 MOCKINGBIRD LANE TYPICAL SECTION

STA 62+00 TO STA 68+00
STA 77+00 TO STA 82+00
STA 88+00 TO STA 91+00
STA 96+00 TO STA 103+00
SCALE: 1"=5' HORIZONTAL
1"=2' VERTICAL



2 C0.05 MOCKINGBIRD LANE TYPICAL SECTION

STA 68+00 TO STA 77+00
STA 82+00 TO STA 88+00
STA 91+00 TO STA 96+00
SCALE: 1"=5' HORIZONTAL
1"=2' VERTICAL



3 C0.05 MOCKINGBIRD LANE TYPICAL SECTION

STA 103+00 TO STA 107+50
SCALE: 1"=5' HORIZONTAL
1"=2' VERTICAL

NOTES:
1. FOR TYPICAL SECTIONS 1 AND 2, THE INTENT IS FOR THE CONTRACTOR TO TIE INTO EX GROUND AT THE EDGE OF EXISTING PAVEMENT IN ORDER TO MAINTAIN THE EXISTING DITCH ON THE SOUTH SIDE OF THE ROADWAY.
2. ALL PARKWAYS SHALL BE SOD UNLESS OTHERWISE NOTED ON THE PLANS.
3. COMPACT SUBGRADE TO 95% OF STANDARD PROCTOR DENSITY AND ±2% OF OPTIMUM MOISTURE.

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

TYPICAL SECTIONS - (SHEET 2 OF 3)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C0.05

Plotted By: 2026-08-21 11:28:27, Del Rosso, Austin
Last Saved: 2026-08-21 11:20:34 (TYPICAL SECTIONS - (SHEET 2 OF 3))
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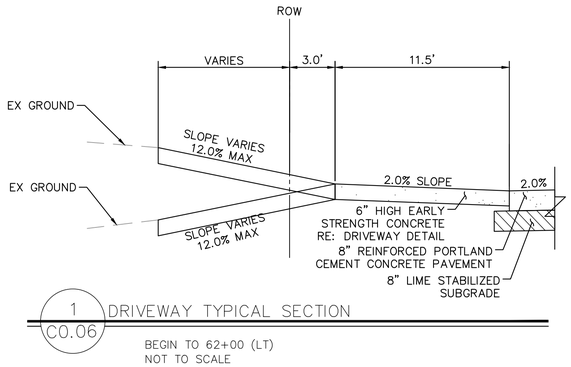
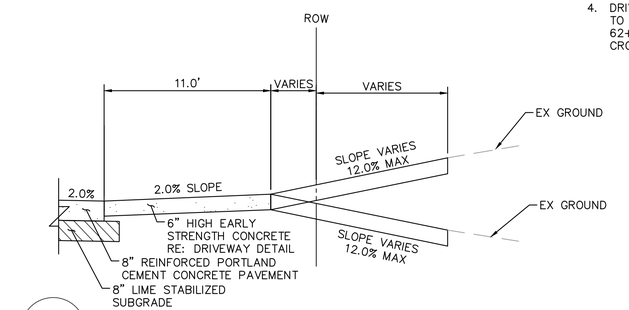


1 C0.06 DRIVEWAY TYPICAL SECTION

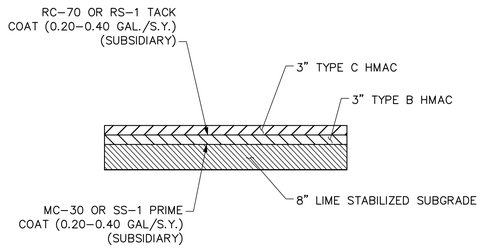
BEGIN TO 62+00 (LT)
NOT TO SCALE



2 C0.06 DRIVEWAY TYPICAL SECTION

62+00 TO END (RT)
NOT TO SCALE

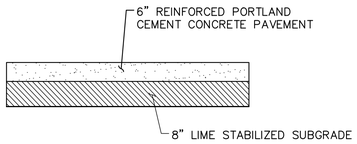
NOTES:
1. FOR TYPICAL SECTIONS 1 AND 2, THE INTENT IS FOR THE CONTRACTOR TO TIE INTO EX GROUND AT THE EDGE OF EXISTING PAVEMENT IN ORDER TO MAINTAIN THE EXISTING DITCH ON THE SOUTH SIDE OF THE ROADWAY.
2. ALL PARKWAYS SHALL BE SOD UNLESS OTHERWISE NOTED ON THE PLANS.
3. COMPACT SUBGRADE TO 95% OF STANDARD PROCTOR DENSITY AND ±2% OF OPTIMUM MOISTURE.
4. DRIVEWAYS ALONG RIGHT SIDE FROM BEGIN TO STA 62+00 AND LEFT SIDE FROM STA 62+00 TO END ARE NOT TYPICAL. SEE CROSS SECTIONS FOR TIE IN GRADING.



NOTE:
SEE PAY ITEM 18 FOR MORE INFORMATION.

3 C0.06 ASPHALT TRANSITION TYPICAL SECTION

SCALE: 1"=10' HORIZONTAL
1"=2' VERTICAL



NOTE:
SEE PAY ITEM 17 FOR MORE INFORMATION.

4 C0.06 CONCRETE TRANSITION TYPICAL SECTION

SCALE: 1"=10' HORIZONTAL
1"=2' VERTICAL

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

TYPICAL SECTIONS
- (SHEET 3 OF 3)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C0.06

2026-08-21 11:28:29, Del Rosso, Austin
2026-08-21 11:20:34 (TYPICAL SECTIONS - (SHEET 3 OF 3))
Plotted, By:
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\base\xtypical.dwg
Filename:

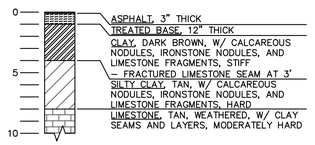
MOCKINGBIRD LANE SHEET 1				
POINT	C/L STA	DESCRIPTION	NORTHING	EASTING
A	1+00.00	BEGIN	6866869.85	2438079.96
B	5+03.31	PC	6866877.55	2438483.20
C	6+62.54	PRC	6866868.81	2438642.04
D	8+16.64	PT	6866859.98	2438795.76

LINE TABLE		
LINE	LENGTH	BEARING
L1	403.31	N88°54'23.60"E
L2	2117.04	N89°10'48.86"E

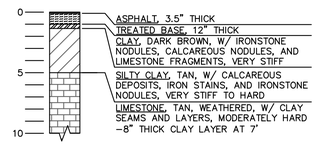
MOCKINGBIRD LANE CURVE TABLE						
CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C1	1075.00'	159.23'	S86°51'00"E	159.09'	8°29'13"	79.76'
C2	1075.00'	154.10'	S86°42'47"E	153.97'	8°12'47"	77.18'

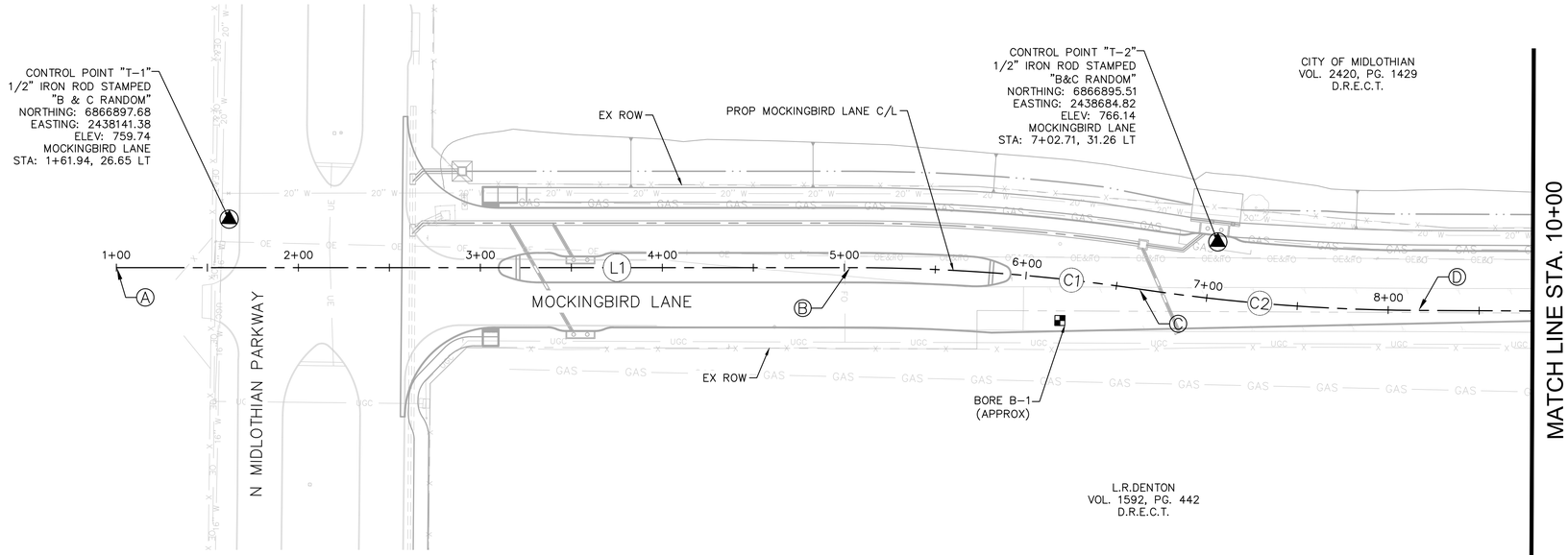
BORE LOGS

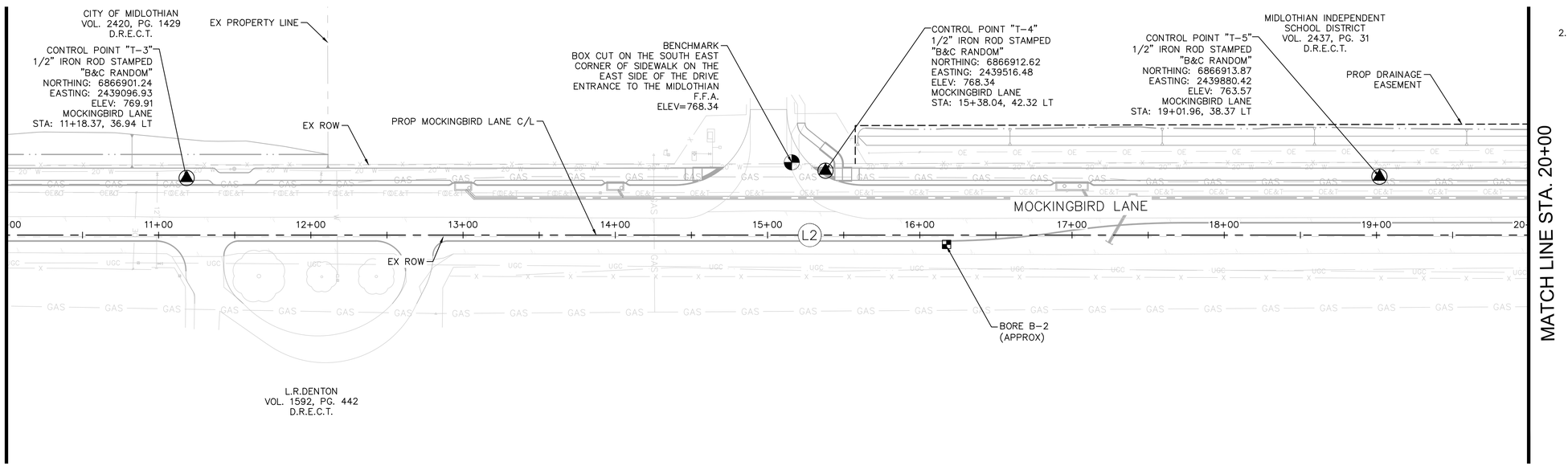
BORE LOG FOR B-1



BORE LOG FOR B-2







GRAPHIC SCALE

40 0 20 40 80

ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 80 FT

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Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

PROJECT CONTROL - (SHEET 1 OF 7)

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C0.07

Plotted, By: 2026-08-21 11:28:59, Del Rosso, Austin
Last Saved: 2026-08-17 23:38:58 (PROJECT CONTROL - (SHEET 1 OF 7))
Filename: k:\tw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\project_control.dwg

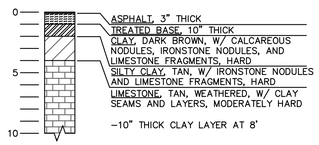
MOCKINGBIRD LANE SHEET 2				
POINT	C/L STA	DESCRIPTION	NORTHING	EASTING
A	29+33.68	PC	6866890.27	2440912.58
B	29+38.81	PT	6866890.35	2440917.72

LINE TABLE		
LINE	LENGTH	BEARING
L2	2117.04	N89°10'48.86"E
L3	2186.06	N88°54'23.60"E

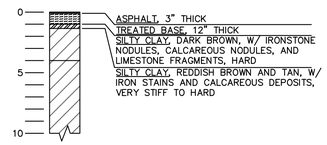
MOCKINGBIRD LANE CURVE TABLE						
CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C3	1075.00'	5.13'	N89°02'36"E	5.13'	0°16'25"	2.57'

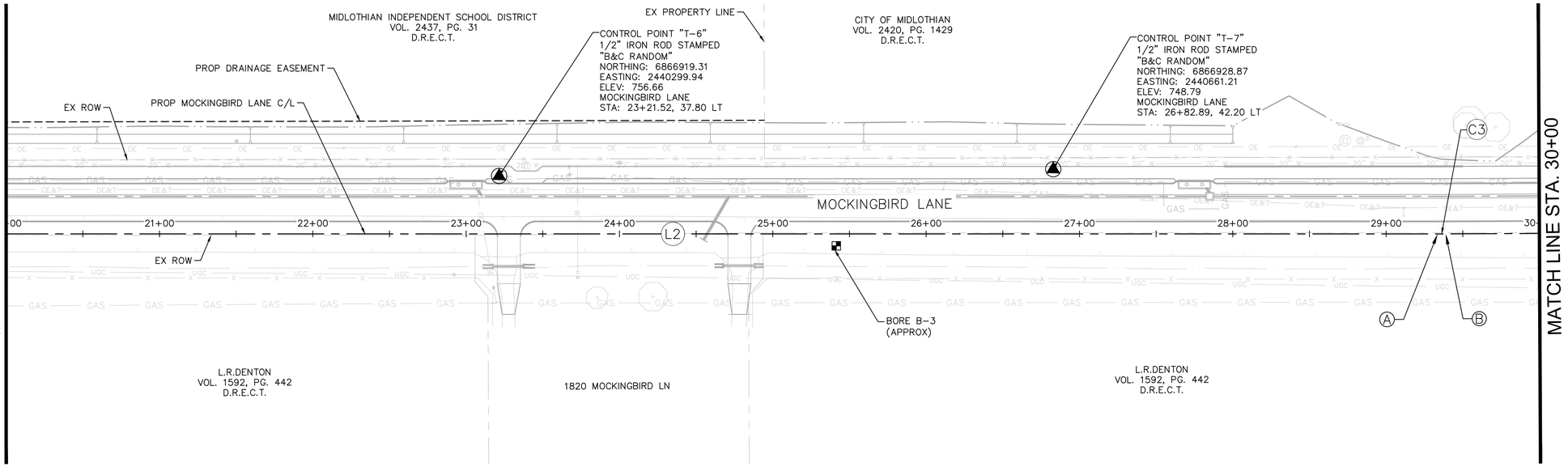
BORE LOGS

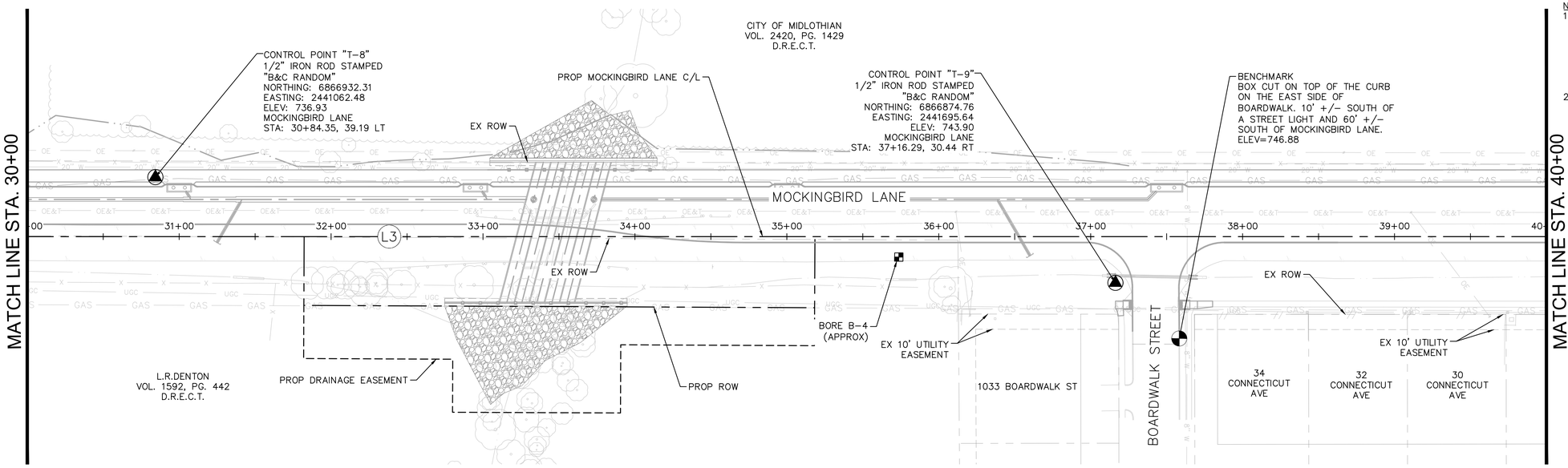
BORE LOG FOR B-3

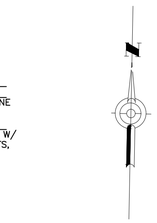


BORE LOG FOR B-4









GRAPHIC SCALE

40 0 20 40 80

ORIGINAL PLOTTED SCALE:
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Kimley»Horn
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No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

PROJECT CONTROL
- (SHEET 2 OF 7)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER

C0.08

Plotted, By: 2026-08-21 11:29:10, Del Rosso, Austin
Last Saved: 2026-08-17 23:36:58 (PROJECT CONTROL - (SHEET 2 OF 7))
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\project_control.dwg

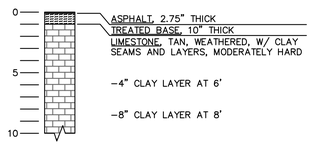
MOCKINGBIRD LANE SHEET 3				
POINT	C/L STA	DESCRIPTION	NORTHING	EASTING
A	51+24.87	PC	6866932.07	2443103.38
B	53+90.51	PRC	6866969.74	2443365.65
C	56+90.38	PT	6867007.51	2443662.14

LINE TABLE		
LINE	LENGTH	BEARING
L3	2186.06	N88°54'23.60"E
L4	2014.01	S89°16'10.22"E

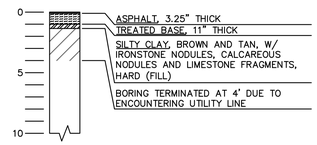
MOCKINGBIRD LANE CURVE TABLE						
CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C4	1075.00'	265.64'	N81°49'39"E	264.97'	14°09'30"	133.50'
C5	1075.00'	299.86'	N82°44'22"E	298.89'	15°58'56"	150.91'

BORE LOGS

BORE LOG FOR B-5



BORE LOG FOR B-6



GRAPHIC SCALE

40 0 20 40 80

ORIGINAL PLOTTED SCALE:
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IF PLAN SHEET IS 11" X 17",
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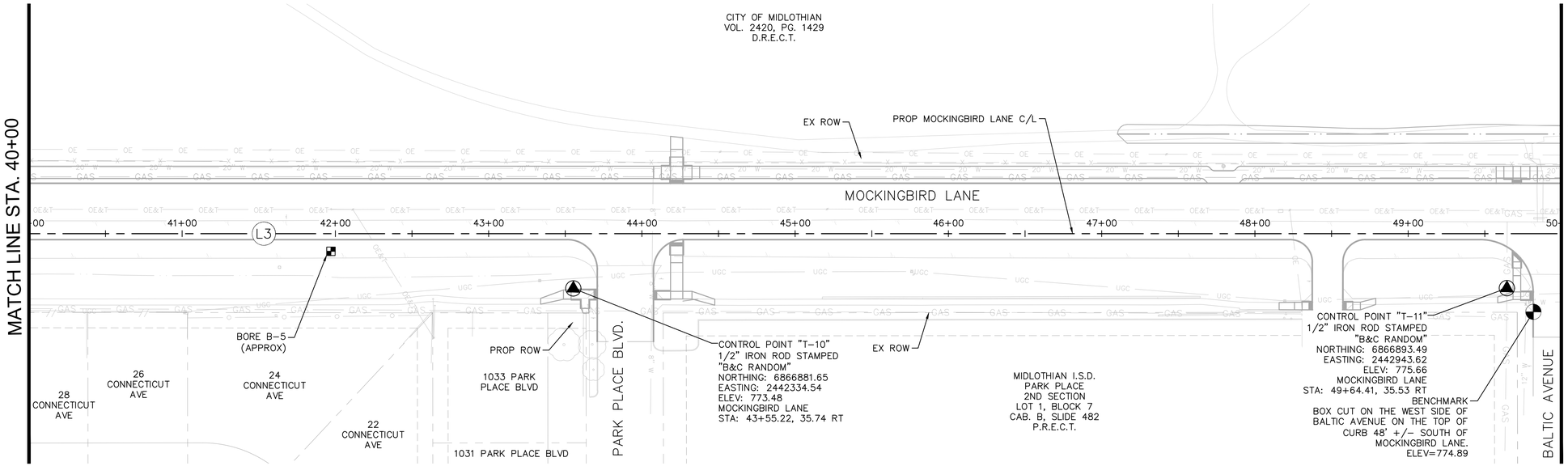

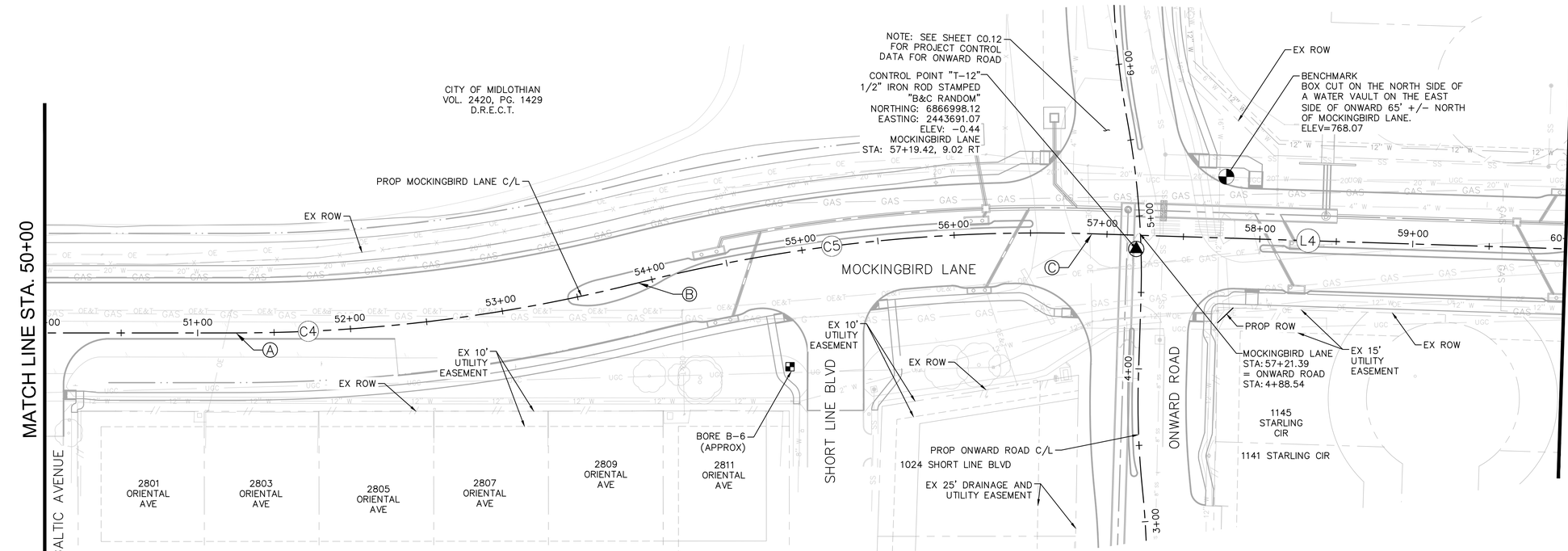

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No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

PROJECT CONTROL - (SHEET 3 OF 7)

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C0.09

Plotted, By: 2026-08-21 11:29:21, Del Rosso, Austin
Last Saved: 2026-08-17 23:38:58 (PROJECT CONTROL - (SHEET 3 OF 7))
Filename: k:\tw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\project_control.dwg

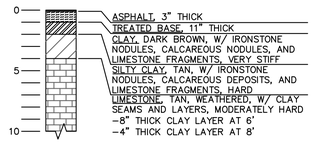
MOCKINGBIRD LANE SHEET 4				
POINT	C/L STA	DESCRIPTION	NORTHING	EASTING
A	77+04.38	PC	6866981.83	2445675.99
B	78+23.29	PRC	6866986.89	2445794.73
C	79+30.33	PT	6866991.20	2445901.59

LINE TABLE		
LINE	LENGTH	BEARING
L4	2014.01	S89°16'10.22"E
L5	1989.36	S89°56'58.17"E

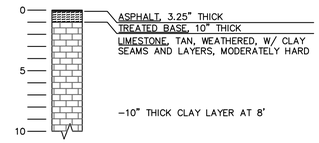
MOCKINGBIRD LANE CURVE TABLE						
CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C6	1075.00'	118.91'	N87°33'42"E	118.85'	6°20'16"	59.52'
C7	1075.00'	106.15'	N87°13'18"E	106.11'	5°39'28"	53.12'

BORE LOGS

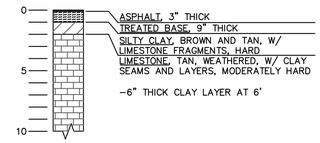
BORE LOG FOR B–7



BORE LOG FOR B–8



BORE LOG FOR B–9

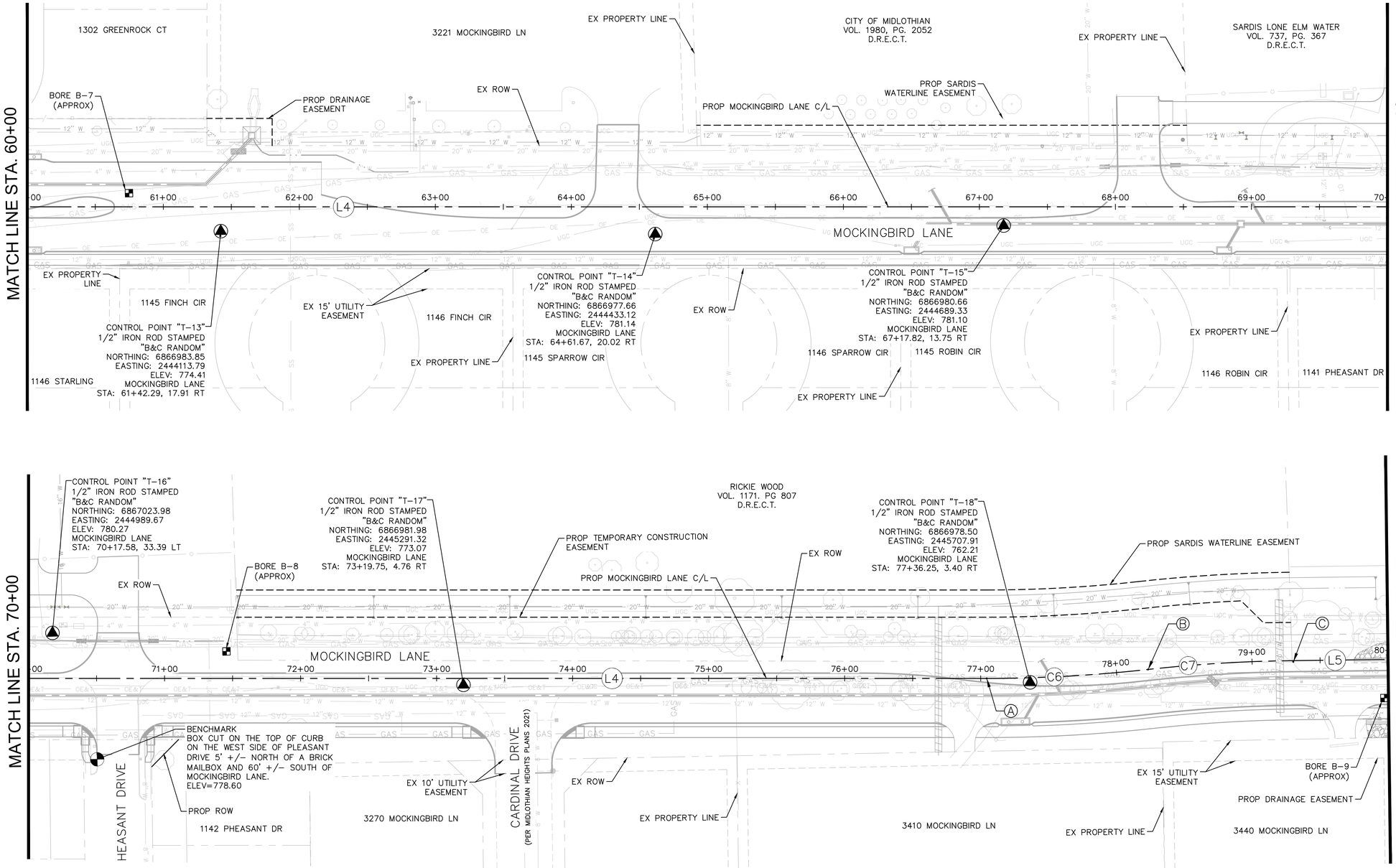


GRAPHIC SCALE

40 0 20 40 80

ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 80 FT



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No.	Revision	By	Date

8/21/2026

STATE OF TEXAS
MISSY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

PROJECT CONTROL
- (SHEET 4 OF 7)

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C0.10

Plotted, By: 2026-08-21 11:29:32, Del Rosso, Austin
Last Saved: 2026-08-17 23:38:58 (PROJECT CONTROL - (SHEET 4 OF 7))
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\project_control.dwg

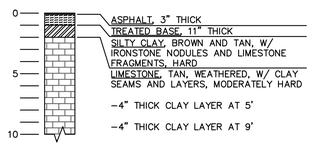
MOCKINGBIRD LANE SHEET 5				
POINT	C/L STA	DESCRIPTION	NORTHING	EASTING
A	99+18.81	PC	6866990.28	2447890.08

LINE TABLE		
LINE	LENGTH	BEARING
L5	1989.36	S89°56'58.17"E

MOCKINGBIRD LANE CURVE TABLE						
CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C8	1075.00'	95.62'	N87°30'08"E	95.59'	5°05'48"	47.84'

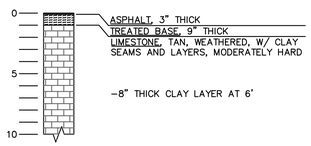
BORE LOGS

BORE LOG FOR B–10



ASPHALT, 3" THICK
TREATED BASE, 11" THICK
SILTY CLAY, BROWN AND TAN, W/ IRONSTONE NODULES AND LIMESTONE FRAGMENTS, HARD
LIMESTONE, TAN, WEATHERED, W/ CLAY SEAMS AND LAYERS, MODERATELY HARD
–4" THICK CLAY LAYER AT 5'
–4" THICK CLAY LAYER AT 9'

BORE LOG FOR B–11



ASPHALT, 3" THICK
TREATED BASE, 9" THICK
LIMESTONE, TAN, WEATHERED, W/ CLAY SEAMS AND LAYERS, MODERATELY HARD
–8" THICK CLAY LAYER AT 6'

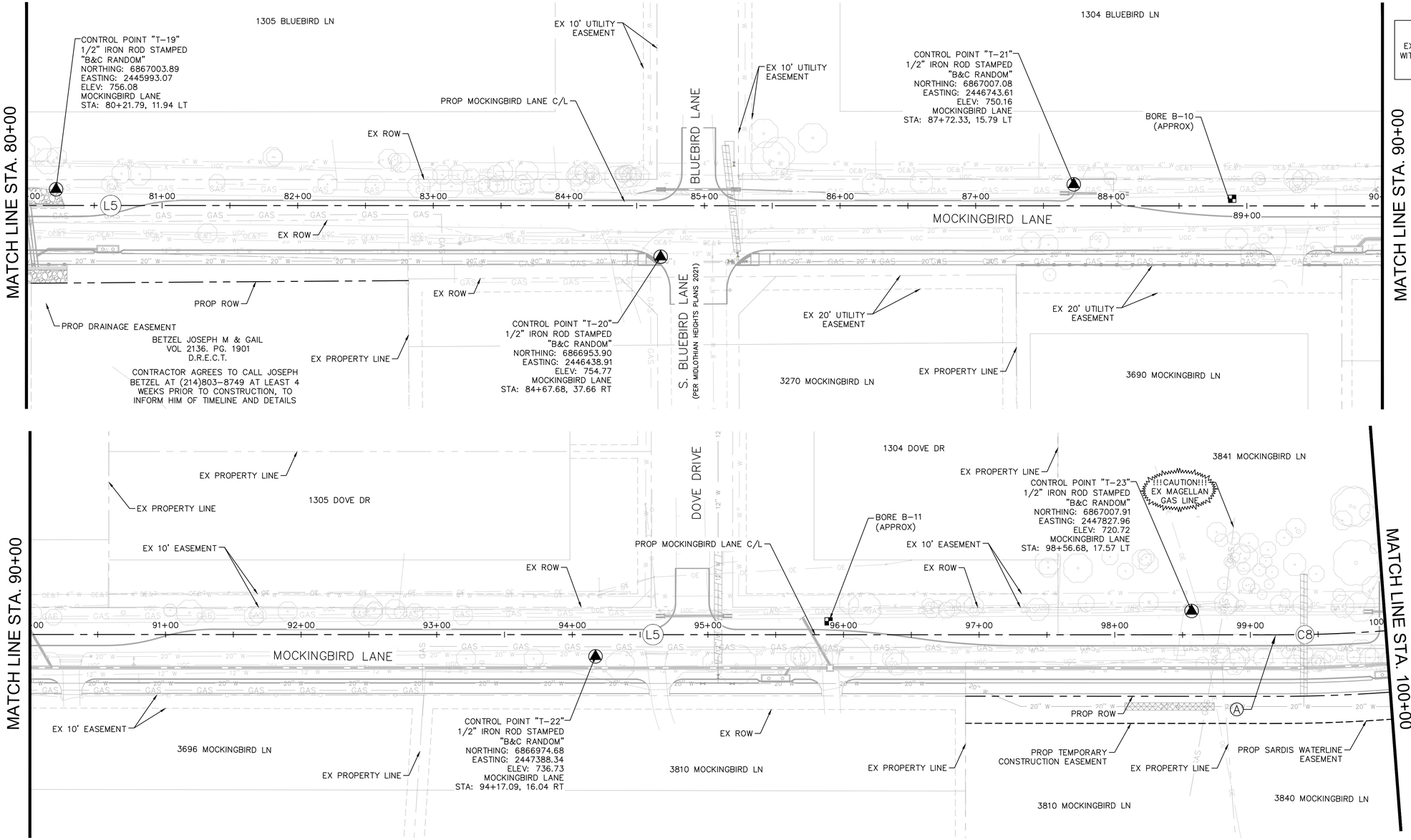
GRAPHIC SCALE

40 0 20 40 80

ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 80 FT

WARNING
HIGH PRESSURE PIPELINE(S)
EXCAVATION AND/OR CONSTRUCTION PROHIBITED WITHOUT COMPLIANCE WITH **STATE ONE–CALL**, AND WITHOUT WRITTEN PERMISSION FROM **MAGELLAN PIPELINE COMPANY, L.P.**



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8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

PROJECT CONTROL
- (SHEET 5 OF 7)

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

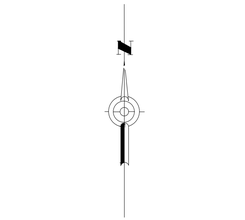
C0.11

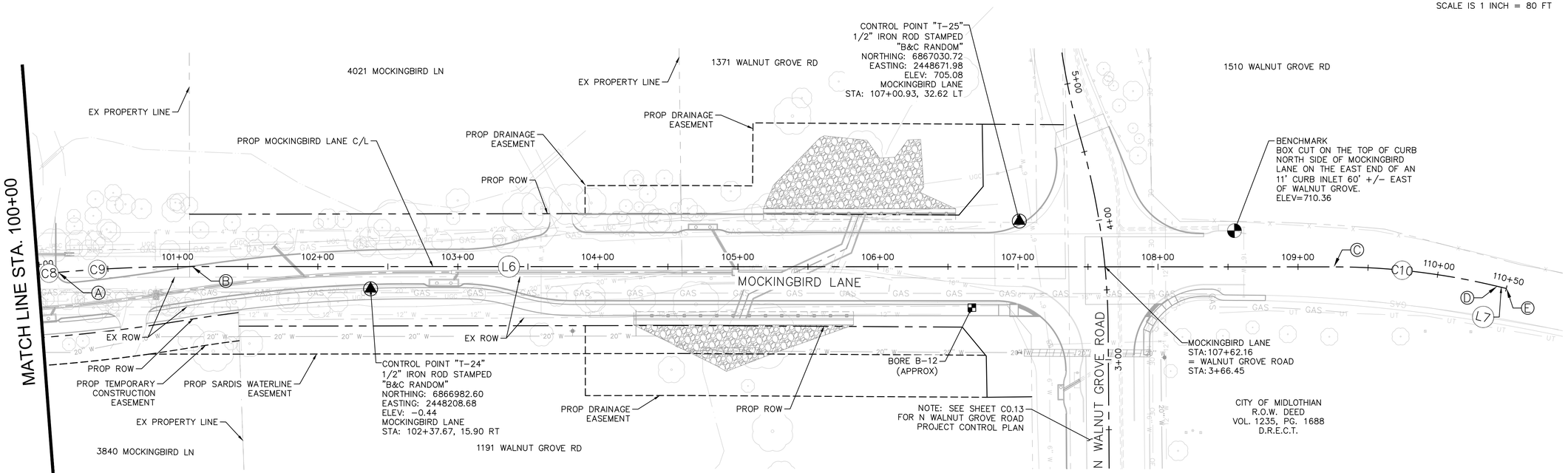
Plotted By: 2026-08-21 11:29:43, Del Rosso, Austin
Last Saved: 2026-08-17 23:36:58 (PROJECT CONTROL - (SHEET 5 OF 7))
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\project_control.dwg

MOCKINGBIRD LANE SHEET 6				
POINT	C/L STA	DESCRIPTION	NORTHING	EASTING
A	100+14.43	PRC	6866994.45	2447985.58
B	101+10.06	PT	6866998.61	2448081.08
C	109+25.36	PC	6866997.89	2448896.38
D	110+43.50	PT	6866983.90	2449013.42
E	110+50.00	END	6866982.37	2449019.74

LINE TABLE		
LINE	LENGTH	BEARING
L6	815.30	S89°56'58.17"E
L7	6.50	S76°24'39.97"E

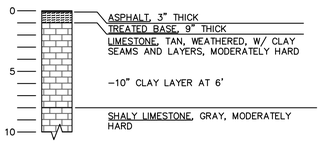
MOCKINGBIRD LANE CURVE TABLE						
CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C8	1075.00'	95.62'	N87°30'08"E	95.59'	5°05'48"	47.84'
C9	1075.00'	95.62'	N87°30'08"E	95.59'	5°05'47"	47.84'
C10	500.00'	118.14'	S83°10'49"E	117.87'	13°32'18"	59.35'





BORE LOG

BORE LOG FOR B-12



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MISTY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

PROJECT CONTROL
- (SHEET 6 OF 7)

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

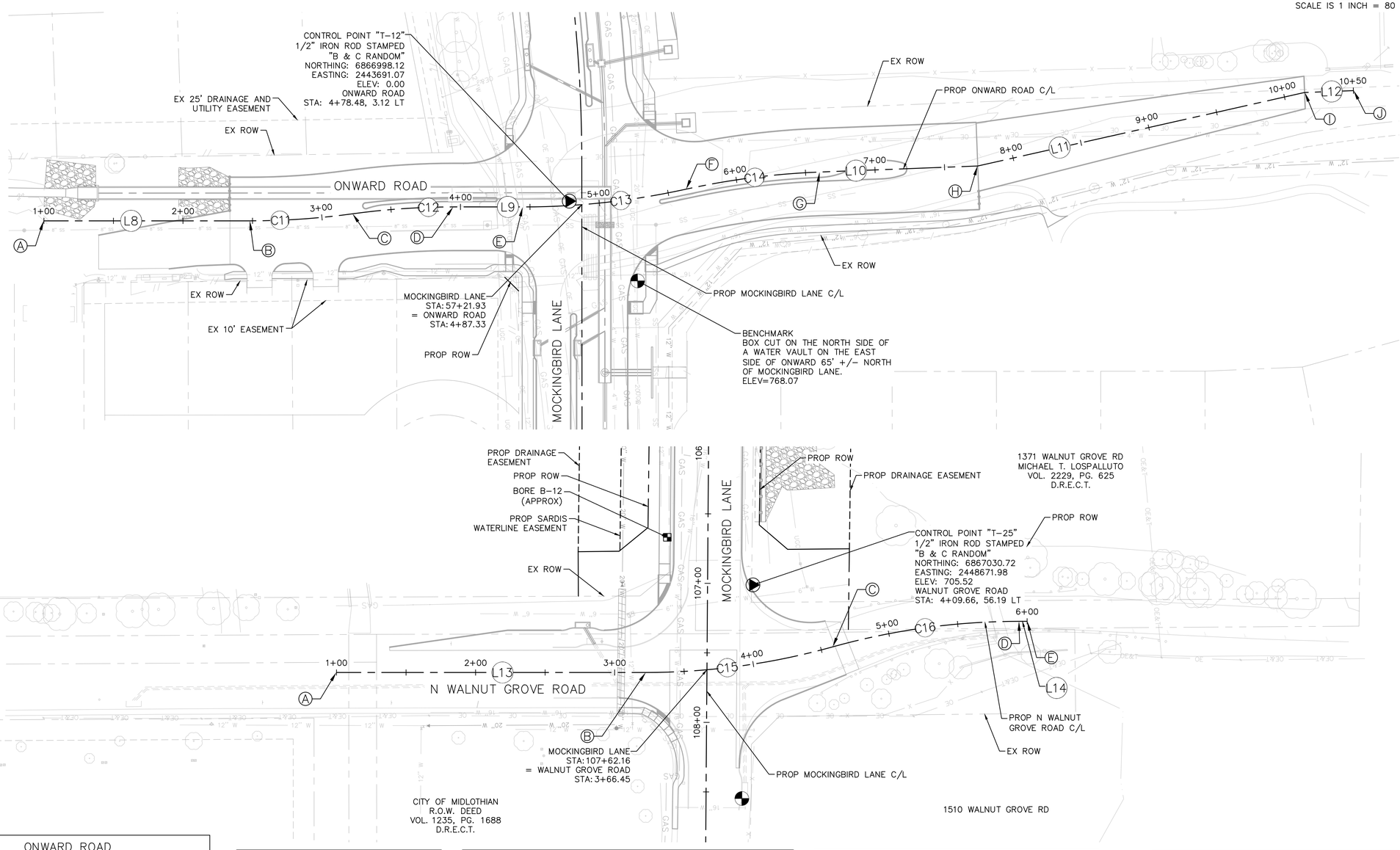
SHEET NUMBER

C0.12

Plotted By: 2026-08-21 11:29:52, Del Rosso, Austin
Last Saved: 2026-08-17 23:38:58 (PROJECT CONTROL - (SHEET 6 OF 7))
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\project_control.dwg

NOTES:
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING ANY IRON RODS OUTSIDE OF THE ROW DURING THE COURSE OF CONSTRUCTION. ANY IRON RODS DISTURBED DURING CONSTRUCTION SHALL BE REPLACED BY THE CONTRACTOR. THIS SHALL BE CONSIDERED SUBSIDIARY TO THE COST OF THE PROJECT.
2. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR PERFORMING ALL CONSTRUCTION LAYOUTS AND STAKING FROM THE SITE LAYOUT CONTROL POINTS AND FROM THE DIMENSIONS AND CENTERLINES SHOWN. THE CONTRACTOR MUST NOTIFY THE ENGINEER OF ANY DISCREPANCIES BEFORE PROCEEDING WITH THE WORK.

GRAPHIC SCALE
40 0 20 40 80
ORIGINAL PLOTTED SCALE: 1 inch = 40 ft.
IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 80 FT



ONWARD ROAD				
POINT	C/L STA	DESCRIPTION	NORTHING	EASTING
A	1+00.00	BEGIN	6866620.16	2443700.08
B	2+47.82	PC	6866767.97	2443702.09
C	3+22.05	PRC	6866842.02	2443698.05
D	3+94.91	PT	6866914.72	2443694.09
E	4+44.91	PC	6866964.71	2443694.77
F	5+63.03	PRC	6867082.08	2443683.61
G	6+60.33	PT	6867178.62	2443672.57
H	7+73.94	PI	6867292.20	2443669.77
I	10+14.84	PI	6867527.92	2443620.11
J	10+50.00	END	6867563.07	2443619.25

ONWARD ROAD LINE TABLE		
LINE	LENGTH	BEARING
L8	147.82	N0°46'44.74"E
L9	50.00	N0°46'44.74"E
L10	113.61	N1°24'37.35"W
L11	240.90	N11°53'44.74"W
L12	35.16	N1°24'37.35"W

ONWARD ROAD CURVE TABLE						
CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C11	545.00'	74.22'	N3°07'21"W	74.17'	7°48'11"	37.17'
C12	535.00'	72.86'	N3°07'21"W	72.80'	7°48'11"	36.49'
C13	545.00'	118.13'	N5°25'49"W	117.89'	12°25'07"	59.30'
C14	545.00'	97.30'	N6°31'30"W	97.17'	10°13'45"	48.78'

N WALNUT GROVE ROAD				
POINT	C/L STA	DESCRIPTION	NORTHING	EASTING
A	1+00.00	BEGIN	6866731.66	2448736.83
B	3+22.42	PC	6866954.07	2448735.40
C	4+58.39	PRC	6867088.26	2448716.16
D	5+94.37	PT	6867222.44	2448696.92
E	6+00.00	END	6867228.07	2448696.89

N WALNUT GROVE ROAD LINE TABLE		
LINE	LENGTH	BEARING
L13	222.42	N0°22'07.06"W
L14	5.63	N0°22'07.06"W

N WALNUT GROVE ROAD CURVE TABLE						
CURVE	RADIUS	LENGTH	CHORD BEARING	CHORD	DELTA	TANGENT
C15	500.00'	135.97'	N8°09'34"W	135.56'	15°34'53"	68.41'
C16	500.00'	135.97'	N8°09'34"W	135.56'	15°34'53"	68.41'

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

PROJECT CONTROL
- (SHEET 7 OF 7)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C0.13

Plotted, By: 2026-08-21 11:30:08, Del Rosso, Austin
Last Saved: 2026-08-17 23:38:58 (PROJECT CONTROL - (SHEET 7 OF 7))
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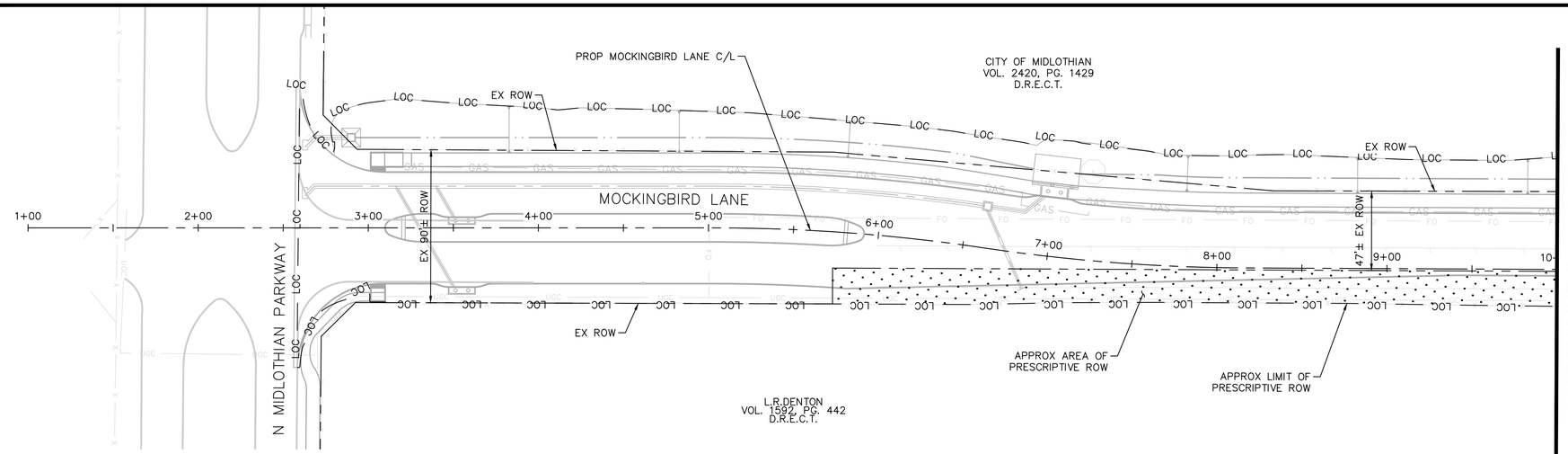
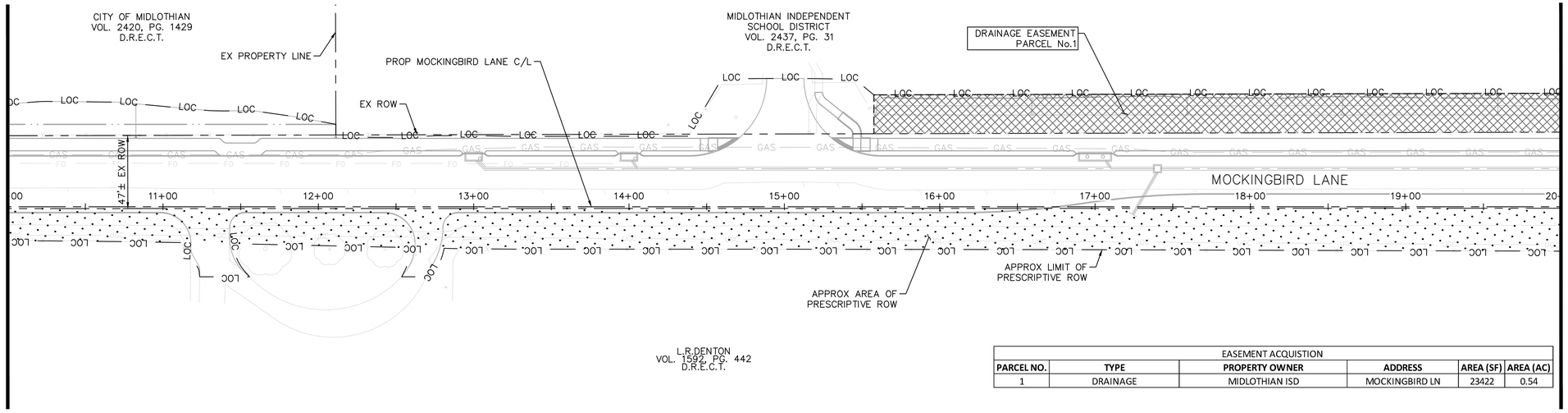
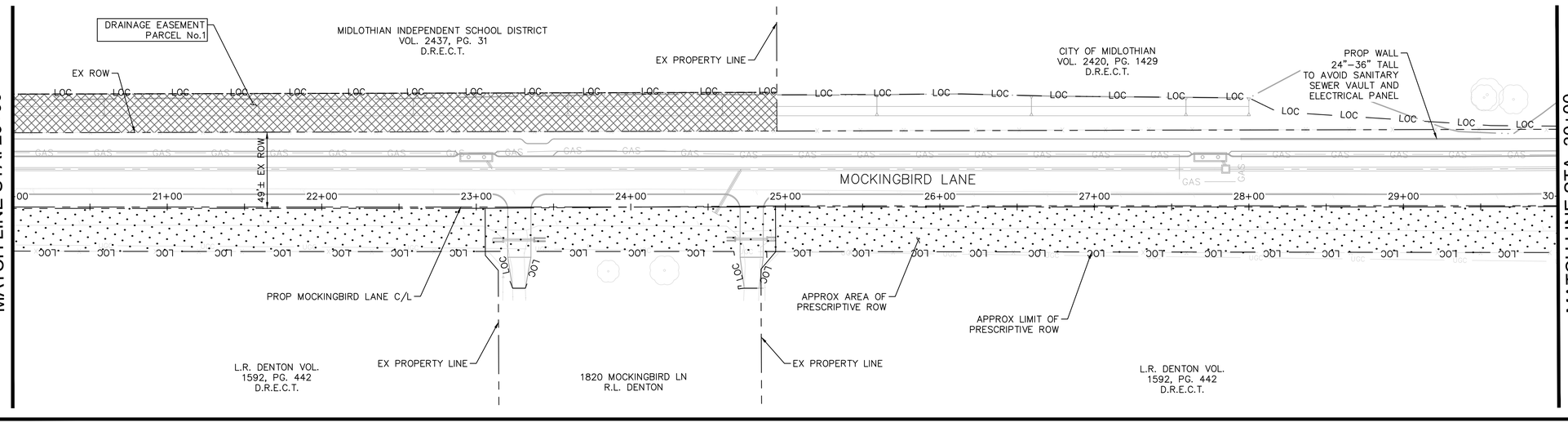




EASEMENT ACQUISTION					
PARCEL NO.	TYPE	PROPERTY OWNER	ADDRESS	AREA (SF)	AREA (AC)
1	DRAINAGE	MIDLOTHIAN ISD	MOCKINGBIRD LN	23422	0.54



GRAPHIC SCALE

40 0 20 40 80

ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 80 FT

LEGEND

- PROP RIGHT–OF–WAY (ROW)
- EX RIGHT–OF–WAY (ROW)
- PROP TCE
- PROP DRAINAGE EASEMENT
- APPROX PRESCRIPTIVE ROW
- LIMITS OF CONSTRUCTION — LOC —

Kimley»Horn
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98384
REGISTERED
PROFESSIONAL
ENGINEER
8/21/2026

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

RIGHT-OF-WAY STRIP MAP - (SHEET 1 OF 4)

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C0.14

Plotted By: 2026-08-21 11:30:32, Del Rosso, Austin
Last Saved: 2026-08-12 15:28:12 (RIGHT-OF-WAY STRIP MAP - (SHEET 1 OF 4))
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\right-of-way strip.dwg

RIGHT OF WAY ACQUISITION				
PARCEL NO.	**PROPERTY OWNER**	**ADDRESS**	**AREA (SF)**	**AREA (AC)**
1	LR DENTON	MOCKINGBIRD LN	15173	0.35
2	SEDRIEL J. MONTALVO	1033 PARK PLACE BLVD	113	0.003
3	ALEXANDER R. & HEATHER MORRIS	1145 STARLING CIR	50	0.001

EASEMENT ACQUISITION					
PARCEL NO.	**TYPE**	**PROPERTY OWNER**	**ADDRESS**	**AREA (SF)**	**AREA (AC)**
2	DRAINAGE	LR DENTON	MOCKINGBIRD LN	14362	0.33

MATCH LINE STA. 30+00

CITY OF MIDLOTHIAN
VOL. 2420, PG. 1429
D.R.E.C.T.

PROP MOCKINGBIRD LANE C/L

EX ROW

50'± EX ROW

MOCKINGBIRD LANE

APPROX AREA OF PRESCRIPTIVE ROW

APPROX LIMIT OF PRESCRIPTIVE ROW

DRAINAGE EASEMENT PARCEL No.2

L.R. DENTON VOL. 1592, PG. 442 D.R.E.C.T.

ROW PARCEL No.1

APPROX AREA OF PRESCRIPTIVE ROW

APPROX LIMIT OF PRESCRIPTIVE ROW

EX ROW

EX 10' UTILITY EASEMENT

BOARDWALK STREET

1033 BOARDWALK ST
KINSEY KELLY & JASON

EX 50' ROW

EX ROW

98'± ROW

32 CONNECTICUT AVE
RENO RICHARD

EX 10' UTILITY EASEMENT

30 CONNECTICUT AVE
LONGORIA AMANDA & RAMIRO PERALES

28 CONNECTICUT AVE
RESZI DFW ACQ I LLC

34 CONNECTICUT AVE
WICKLIFFE ERIC G

MATCH LINE STA. 40+00

MATCH LINE STA. 40+00

CITY OF MIDLOTHIAN
VOL. 2420, PG. 1429
D.R.E.C.T.

PROP MOCKINGBIRD LANE C/L

EX ROW

MOCKINGBIRD LANE

98'± ROW

EX 10' UTILITY EASEMENT

26 CONNECTICUT AVE
JONES KATHERINE L

28 CONNECTICUT AVE
RESZI DFW ACQ I LLC

EX ROW

24 CONNECTICUT AVE
PHELPS CLIFTON E & BRANDY M

ROW PARCEL No.2
(15'X15' CORNER CLIP)

1033 PARK PLACE BLVD
MONTALVO SEDRIEL J

PARK PLACE BLVD.

EX 50' ROW

EX ROW

EX 15' UTILITY EASEMENT

MIDLOTHIAN I.S.D.
PARK PLACE
2ND SECTION
LOT 1, BLOCK 7
CAB. B, SLIDE 482
P.R.E.C.T.

EX 96'± ROW

EX 51' ROW

BALTIC AVE

MATCH LINE STA. 50+00

MATCH LINE STA. 50+00

CITY OF MIDLOTHIAN
VOL. 2420, PG. 1429
D.R.E.C.T.

PROP MOCKINGBIRD LANE C/L

EX ROW

MOCKINGBIRD LANE

EX 96'± ROW

EX 51' ROW

EX 10' UTILITY EASEMENT

2801 ORIENTAL AVE
LAZARZ KAREN M

2803 ORIENTAL AVE
COFFMAN KRYSTAL & JUSTIN

EX ROW

2805 ORIENTAL AVE
WARD RICHARD C & STACY A

2807 ORIENTAL AVE
TALEN MICHAEL & CAROLE

2809 ORIENTAL AVE
BARNETT CHARLES O & LILA L

2811 ORIENTAL AVE
FLACH DAVID J & ASHLEY R

EX 60'±ROW

SHORT LINE AVE

PROP ONWARD ROAD C/L

CITY OF MIDLOTHIAN
VOL. 2420, PG. 1429
D.R.E.C.T.

PROP MOCKINGBIRD LANE C/L

EX ROW

EX 10' UTILITY EASEMENT

25' DRAINAGE AND UTILITY EASEMENT

ONWARD ROAD

EX 90' ROW

PARKSIDE ESTATES HOMEOWNERS ASSOCIATION INC
LOT 10 BLK 4

EX ROW

EX 100'± ROW

ROW PARCEL No.3
(10'X10' CORNER CLIP)

EX 15' UTILITY EASEMENT

1145 STARLING CIR
MORRIS HEATHER & ALEXANDER R

MOCKINGBIRD ESTATES
INST.#9924620
O.P.R.E.C.T.

MATCH LINE STA. 60+00

GRAPHIC SCALE

40 0 20 40 80

ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 80 FT

LEGEND

- PROP RIGHT-OF-WAY (ROW)
- EX RIGHT-OF-WAY (ROW)
- PROP TCE
- PROP DRAINAGE EASEMENT
- APPROX PRESCRIPTIVE ROW
- LIMITS OF CONSTRUCTION — LOC —

Kimley»Horn
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No.	Revision	By	Date

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98384
REGISTERED PROFESSIONAL ENGINEER
8/21/2026

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

RIGHT-OF-WAY STRIP MAP - (SHEET 2 OF 4)

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C0.15

Plotted, By: 2026-08-21 11:30:40, Del Rosso, Austin
Last Saved: 2026-08-12 15:28:12 (RIGHT-OF-WAY STRIP MAP - (SHEET 2 OF 4))
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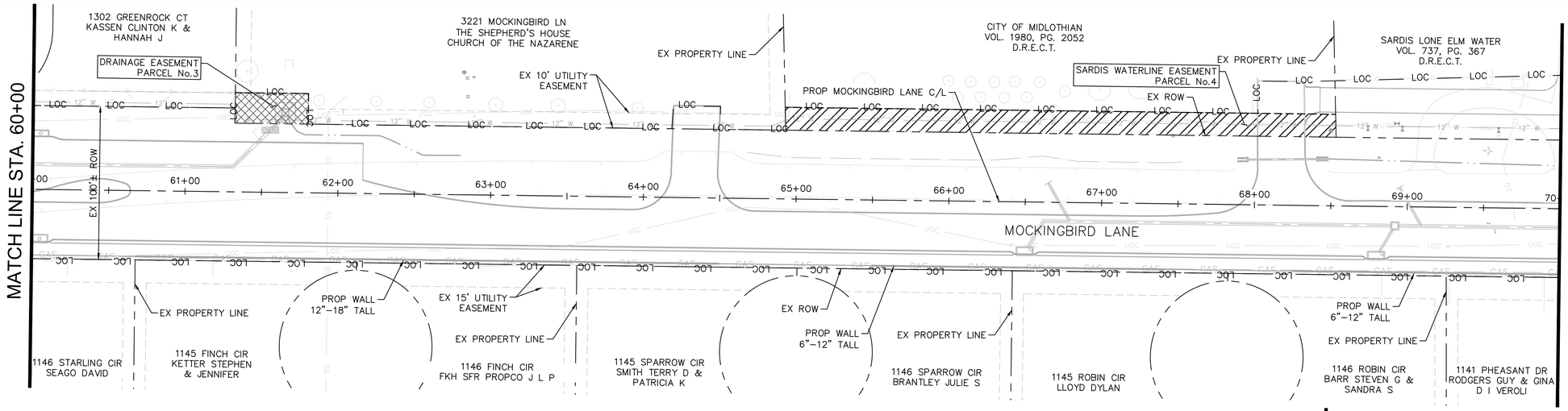

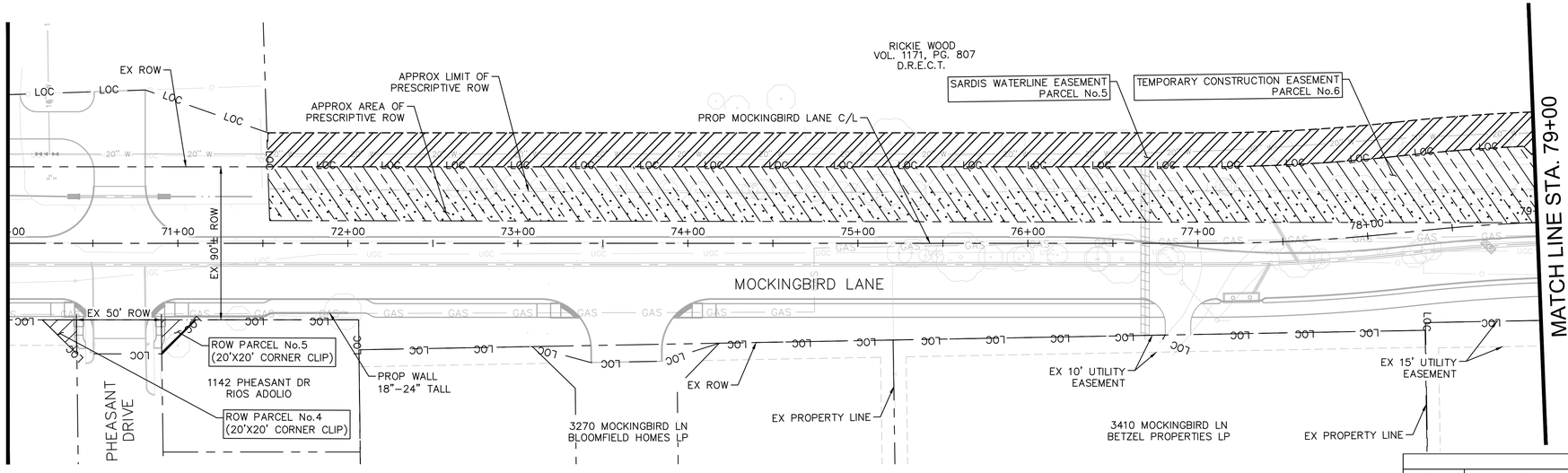

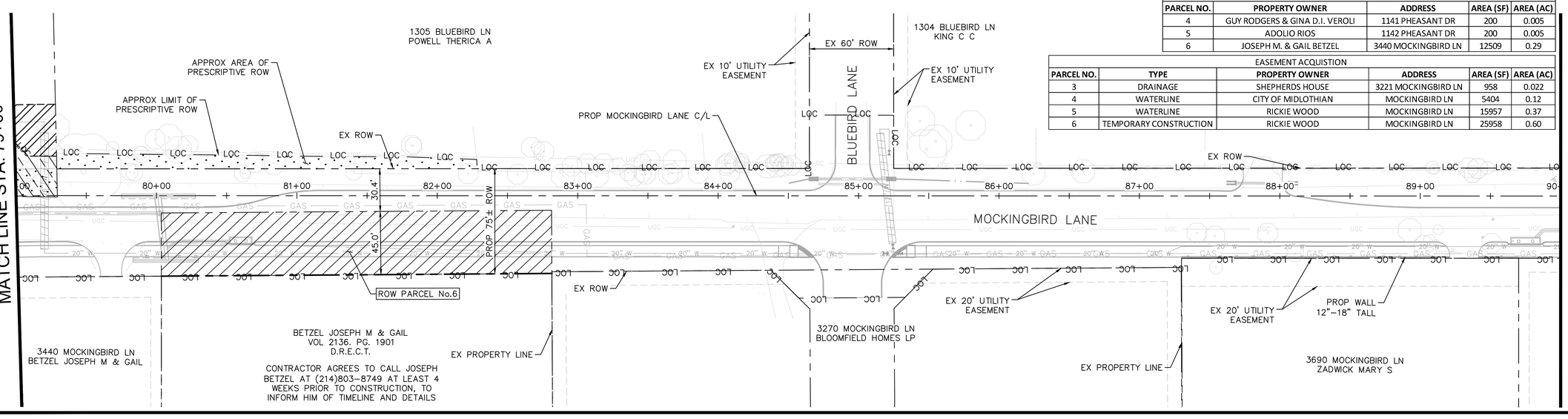

GRAPHIC SCALE

40 0 20 40 80

ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 80 FT

LEGEND

- PROP RIGHT–OF–WAY (ROW)
- EX RIGHT–OF–WAY (ROW)
- PROP TCE
- PROP DRAINAGE EASEMENT
- APPROX PRESCRIPTIVE ROW
- LIMITS OF CONSTRUCTION — LOC —
- SARDIS WATERLINE EASEMENT

RIGHT OF WAY ACQUISITION

PARCEL NO.	PROPERTY OWNER	ADDRESS	AREA (SF)	AREA (AC)
4	GUY RODGERS & GINA D.I. VEROLI	1141 PHEASANT DR	200	0.005
5	ADOLIO RIOS	1142 PHEASANT DR	200	0.005
6	JOSEPH M. & GAIL BETZEL	3440 MOCKINGBIRD LN	12509	0.29

EASEMENT ACQUISITION

PARCEL NO.	TYPE	PROPERTY OWNER	ADDRESS	AREA (SF)	AREA (AC)
3	DRAINAGE	SHEPHERDS HOUSE	3221 MOCKINGBIRD LN	958	0.022
4	WATERLINE	CITY OF MIDLOTHIAN	MOCKINGBIRD LN	5404	0.12
5	WATERLINE	RICKIE WOOD	MOCKINGBIRD LN	15957	0.37
6	TEMPORARY CONSTRUCTION	RICKIE WOOD	MOCKINGBIRD LN	25958	0.60

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REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

RIGHT-OF-WAY STRIP
MAP - (SHEET 3 OF 4)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C0.16

2026-08-21 11:30:48, Del Rosso, Austin
2026-08-12 15:28:12 (RIGHT-OF-WAY STRIP MAP - (SHEET 3 OF 4))
Plotted, By:
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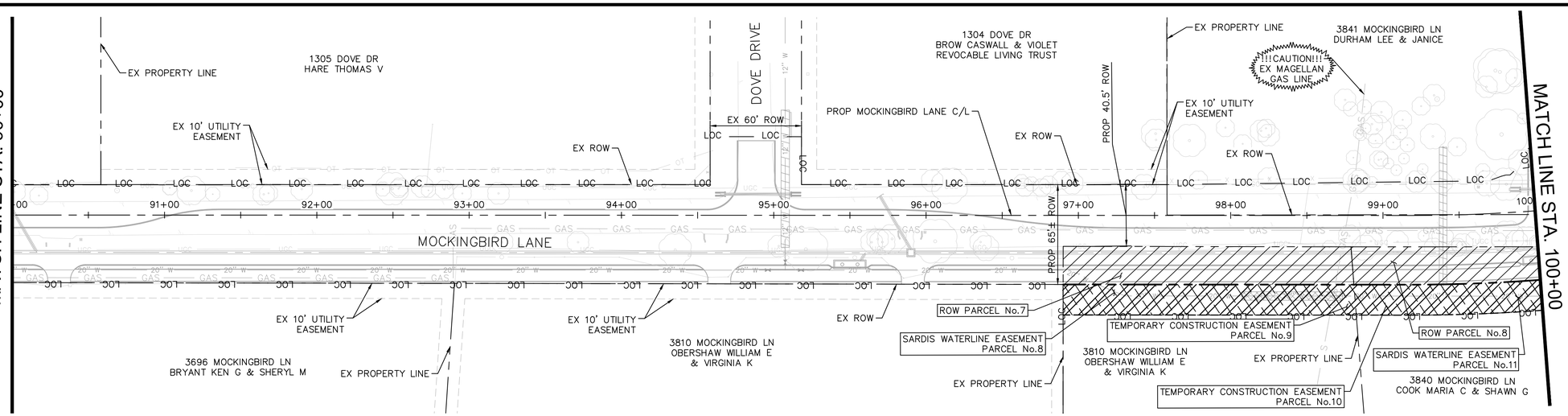
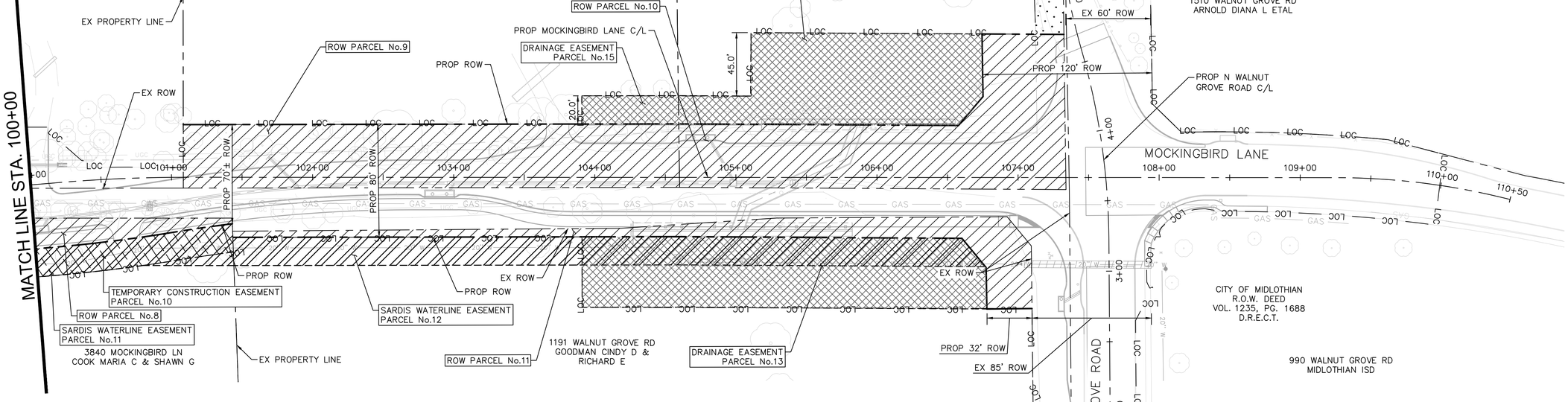
Filename:





GRAPHIC SCALE

40 0 20 40 80

ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 80 FT

LEGEND

- PROP RIGHT–OF–WAY (ROW)
- EX RIGHT–OF–WAY (ROW)
- PROP TCE
- PROP DRAINAGE EASEMENT
- APPROX PRESCRIPTIVE ROW
- LIMITS OF CONSTRUCTION — LOC —
- SARDIS WATERLINE EASEMENT

WARNING
HIGH PRESSURE PIPELINE(S)
EXCAVATION AND/OR CONSTRUCTION PROHIBITED WITHOUT COMPLIANCE WITH **STATE ONE–CALL**, AND WITHOUT WRITTEN PERMISSION FROM **MAGELLAN PIPELINE COMPANY, L.P.**

EASEMENT ACQUISTION

PARCEL NO.	TYPE	PROPERTY OWNER	ADDRESS	AREA (SF)	AREA (AC)
8	WATERLINE	WILLIAM E. & VIRGINIA K. OBERSHAW	3809 MOCKINGBIRD LN	3834	0.09
9	TEMPORARY CONSTRUCTION	WILLIAM E. & VIRGINIA K. OBERSHAW	3810 MOCKINGBIRD LN	3835	0.09
10	TEMPORARY CONSTRUCTION	SHAWN G. & MARIA C. COOK	3839 MOCKINGBIRD LN	5219	0.12
11	WATERLINE	SHAWN G. & MARIA C. COOK	3840 MOCKINGBIRD LN	5538	0.14
12	WATERLINE	RICHARD E. & CINDY D. GOODMAN	1192 WALNUT GROVE RD	10581	0.24
13	DRAINAGE	RICHARD E. & CINDY D. GOODMAN	1191 WALNUT GROVE RD	14153	0.32
14	DRAINAGE	MICHAEL T. & JUDY K. LOSPALLUTO	1371 WALNUT GROVE RD	11547	0.27
15	DRAINAGE	WILLIAM S. HOUK	4021 MOCKINGBIRD LN	1377	0.03

RIGHT OF WAY ACQUISTION

PARCEL NO.	PROPERTY OWNER	ADDRESS	AREA (SF)	AREA (AC)
7	WILLIAM E. & VIRGINIA K. OBERSHAW	3810 MOCKINGBIRD LN	4730	0.11
8	SHAWN G. & MARIA C. COOK	3840 MOCKINGBIRD LN	4890	0.11
9	WILLIAM S. HOUK	4021 MOCKINGBIRD LN	15815	0.36
10	MICHAEL T. & JUDY K. LOSPALLUTO	1371 WALNUT GROVE RD	16278	0.37
11	RICHARD E. & CINDY D. GOODMAN	1191 WALNUT GROVE RD	6749	0.15

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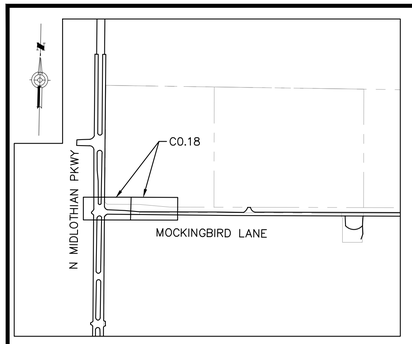
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

RIGHT-OF-WAY STRIP MAP - (SHEET 4 OF 4)

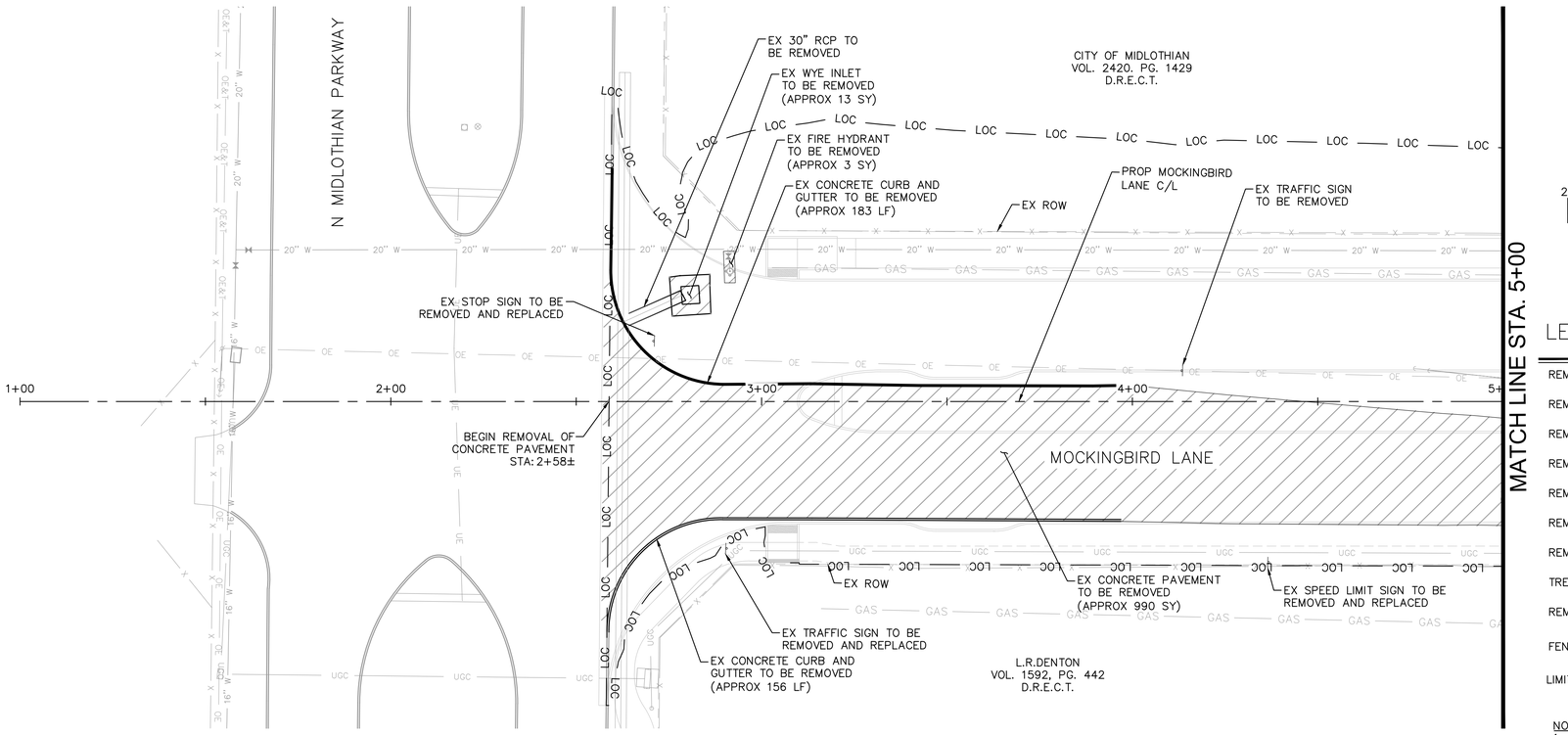
DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

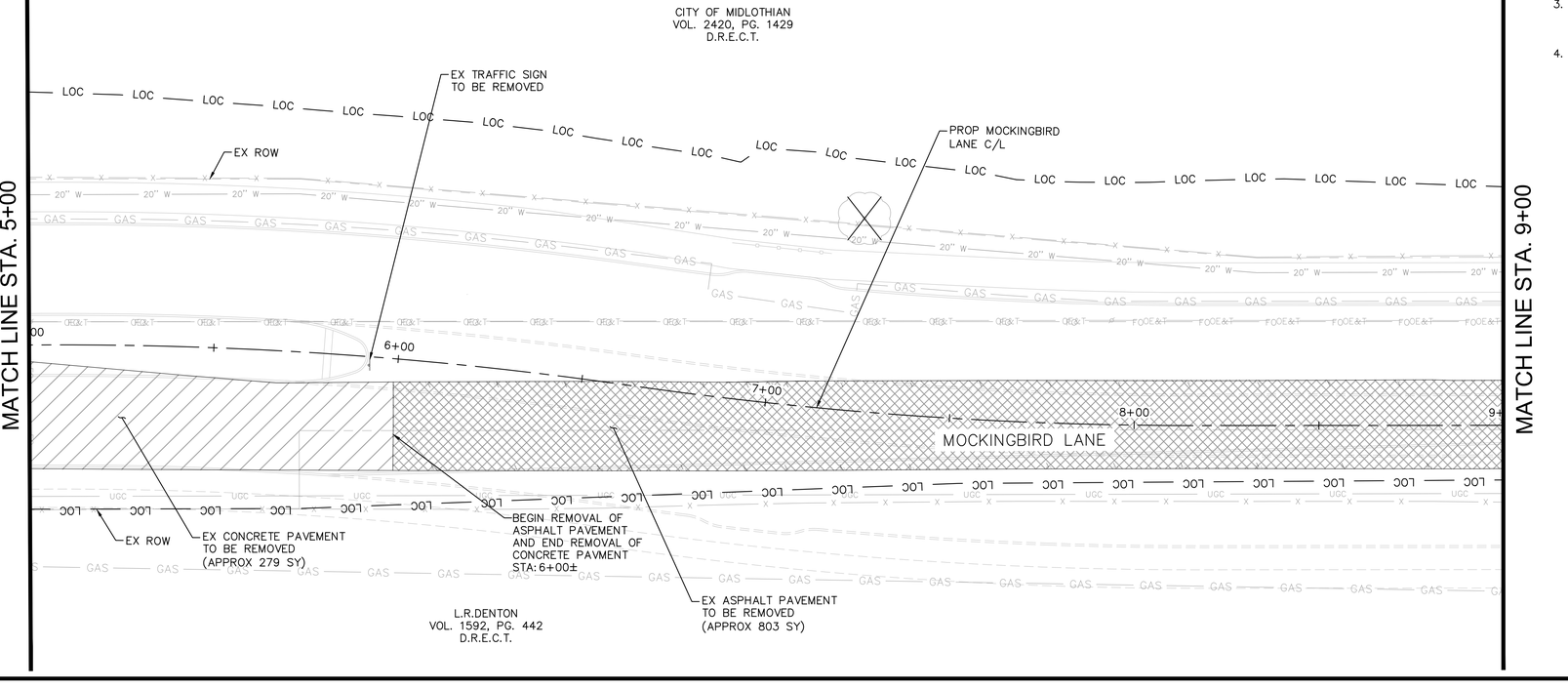
SHEET NUMBER
C0.17

Plotted By: 2026-08-21 11:30:54, Del Rosso, Austin
Last Saved: 2026-08-12 15:28:12 (RIGHT-OF-WAY STRIP MAP - (SHEET 4 OF 4))
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\right-of-way strip.dwg



KEY MAP





GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE: 1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 40 FT

LEGEND

- REMOVE CONCRETE PAVEMENT
- REMOVE ASPHALT
- REMOVE GRAVEL DRIVEWAY
- REMOVE CONCRETE SIDEWALK
- REMOVE CURB AND GUTTER
- REMOVE SIGN
- REMOVE TREE
- TREE TO REMAIN
- REMOVE FENCE
- FENCE TO REMAIN
- LIMITS OF CONSTRUCTION

NOTES:
1. SEE SHEET C0.33 FOR SUMMARY OF REMOVAL QUANTITIES.
2. ALL EXISTING STREET NAME SIGNS TO BE PROTECTED BY CONTRACTOR AND REUSED UNLESS OTHERWISE NOTED.
3. NOT ALL UNDERGROUND UTILITIES ARE NOTED–SEE OTHER SHEETS FOR WATER AND STORM PIPE AND APPURTENANCE REMOVALS.
4. ALL TREES SHALL BE REMOVED UNLESS OTHERWISE NOTED. CONTRACTOR TO VISIT THE SITE TO REVIEW NUMBER, SPECIES AND SIZE OF TREE REMOVAL.

Kimley»Horn
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No.	Revision	By	Date

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MISTY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN MOCKINGBIRD LANE 2021 BOND PROJECT

REMOVAL PLAN - BEGIN TO STA 9+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C0.18

Plotted, By: 2026-08-21 11:31:21, Del Rosso, Austin
Last Saved: 2026-08-21 10:43:08 (REMOVAL PLAN – BEGIN TO STA 9+00)
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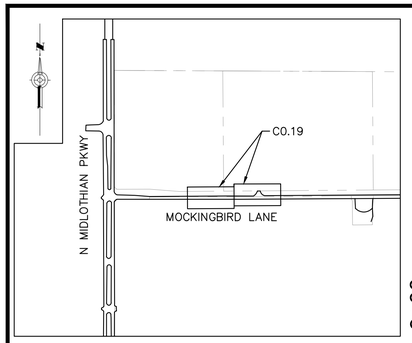


KEY MAP

MATCH LINE STA. 9+00

CITY OF MIDLOTHIAN
VOL. 2420. PG. 1429
D.R.E.C.T.

EX ROW

PROP MOCKINGBIRD
LANE C/L

MIDLOTHIAN INDEPENDENT SCHOOL DISTRICT
VOL. 2437, PG. 31
D.R.E.C.T.

EX FIRE HYDRANT
TO BE REMOVED

10+00 11+00 12+00

MOCKINGBIRD LANE

EX ASPHALT PAVEMENT
TO BE REMOVED
(APPROX 1083 SY)

EX MAILBOX TO BE
REMOVED AND REPLACED

EX GRAVEL DRIVEWAY
TO BE REMOVED
(APPROX 100 SY)

L.R.DENTON
VOL. 1592, PG. 442
D.R.E.C.T.

EX GRAVEL DRIVEWAY
TO BE REMOVED
(APPROX 52 SY)

MATCH LINE STA. 13+00

MATCH LINE STA. 13+00

EX CONCRETE PAVEMENT
TO BE REMOVED
(APPROX 257 SY)

EX CONCRETE SIDEWALK
TO BE REMOVED
(APPROX 15 SY)

MIDLOTHIAN INDEPENDENT SCHOOL DISTRICT
VOL. 2437, PG. 31
D.R.E.C.T.

PROP MOCKINGBIRD
LANE C/L

PROP DRAINAGE ESMT

EX ROW

14+00 15+00 16+00

MOCKINGBIRD LANE

EX ASPHALT PAVEMENT
TO BE REMOVED
(APPROX 1099 SY)

L.R.DENTON
VOL. 1592, PG. 442
D.R.E.C.T.

MATCH LINE STA. 17+00

GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

LEGEND

- REMOVE CONCRETE PAVEMENT
- REMOVE ASPHALT
- REMOVE GRAVEL DRIVEWAY
- REMOVE CONCRETE SIDEWALK
- REMOVE CURB AND GUTTER
- REMOVE SIGN
- REMOVE TREE
- TREE TO REMAIN
- REMOVE FENCE
- FENCE TO REMAIN
- LIMITS OF CONSTRUCTION

NOTES:

1. SEE SHEET C0.33 FOR SUMMARY OF REMOVAL QUANTITIES.
2. ALL EXISTING STREET NAME SIGNS TO BE PROTECTED BY CONTRACTOR AND REUSED UNLESS OTHERWISE NOTED.
3. NOT ALL UNDERGROUND UTILITIES ARE NOTED--SEE OTHER SHEETS FOR WATER AND STORM PIPE AND APPURTENANCE REMOVALS.
4. ALL TREES SHALL BE REMOVED UNLESS OTHERWISE NOTED. CONTRACTOR TO VISIT THE SITE TO REVIEW NUMBER, SPECIES AND SIZE OF TREE REMOVAL.

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

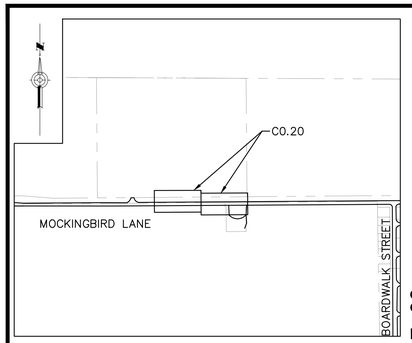
REMOVAL PLAN - STA 9+00 TO STA 17+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C0.19

Plotted By: 2026-08-21 11:31:32, Del Rosso, Austin
Last Saved: 2026-08-21 10:43:08 (REMOVAL PLAN - STA 9+00 TO STA 17+00)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\removal begin to sta 57+00.dwg



KEY MAP

MATCH LINE STA. 17+00

PROP DRAINAGE ESMT

MIDLOTHIAN INDEPENDENT SCHOOL DISTRICT
VOL. 2437, PG. 31
D.R.E.C.T.

EX ROW

PROP MOCKINGBIRD LANE C/L

18+00 19+00 20+00

MOCKINGBIRD LANE

EX ASPHALT PAVEMENT TO BE REMOVED (APPROX 1054 SY)

L.R.DENTON
VOL. 1592, PG. 442
D.R.E.C.T.

MATCH LINE STA. 21+00

MATCH LINE STA. 21+00

PROP DRAINAGE ESMT

MIDLOTHIAN INDEPENDENT SCHOOL DISTRICT
VOL. 2437, PG. 31
D.R.E.C.T.

EX ROW

PROP MOCKINGBIRD LANE C/L

22+00 23+00 24+00

MOCKINGBIRD LANE

EX ASPHALT PAVEMENT TO BE REMOVED (APPROX 1072 SY)

EX 18" DRIVEWAY CULVERT TO BE REMOVED

EX 18" DRIVEWAY CULVERT TO BE REMOVED

EX GRAVEL DRIVEWAY TO BE REMOVED (APPROX 52 SY)

EX GRAVEL DRIVEWAY TO BE REMOVED (APPROX 47 SY)

1820 MOCKINGBIRD LN
R.L. DENTON
VOL. 1592, PG. 442
D.R.E.C.T.

MATCH LINE STA. 25+00

GRAPHIC SCALE
20 0 10 20 40
ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.
IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

LEGEND

- REMOVE CONCRETE PAVEMENT
- REMOVE ASPHALT
- REMOVE GRAVEL DRIVEWAY
- REMOVE CONCRETE SIDEWALK
- REMOVE CURB AND GUTTER
- REMOVE SIGN
- REMOVE TREE
- TREE TO REMAIN
- REMOVE FENCE — X —
- FENCE TO REMAIN — X —
- LIMITS OF CONSTRUCTION — LOC —

NOTES:
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STATE OF TEXAS
MISTY D. CHRISTIAN
98384
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PROFESSIONAL
ENGINEER

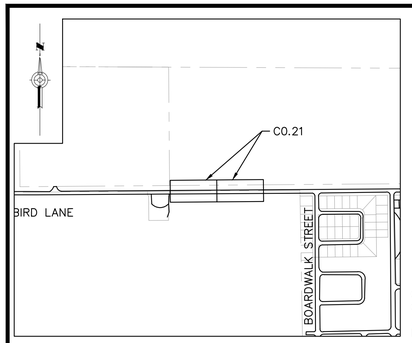
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

REMOVAL PLAN - STA 17+00 TO STA 25+00

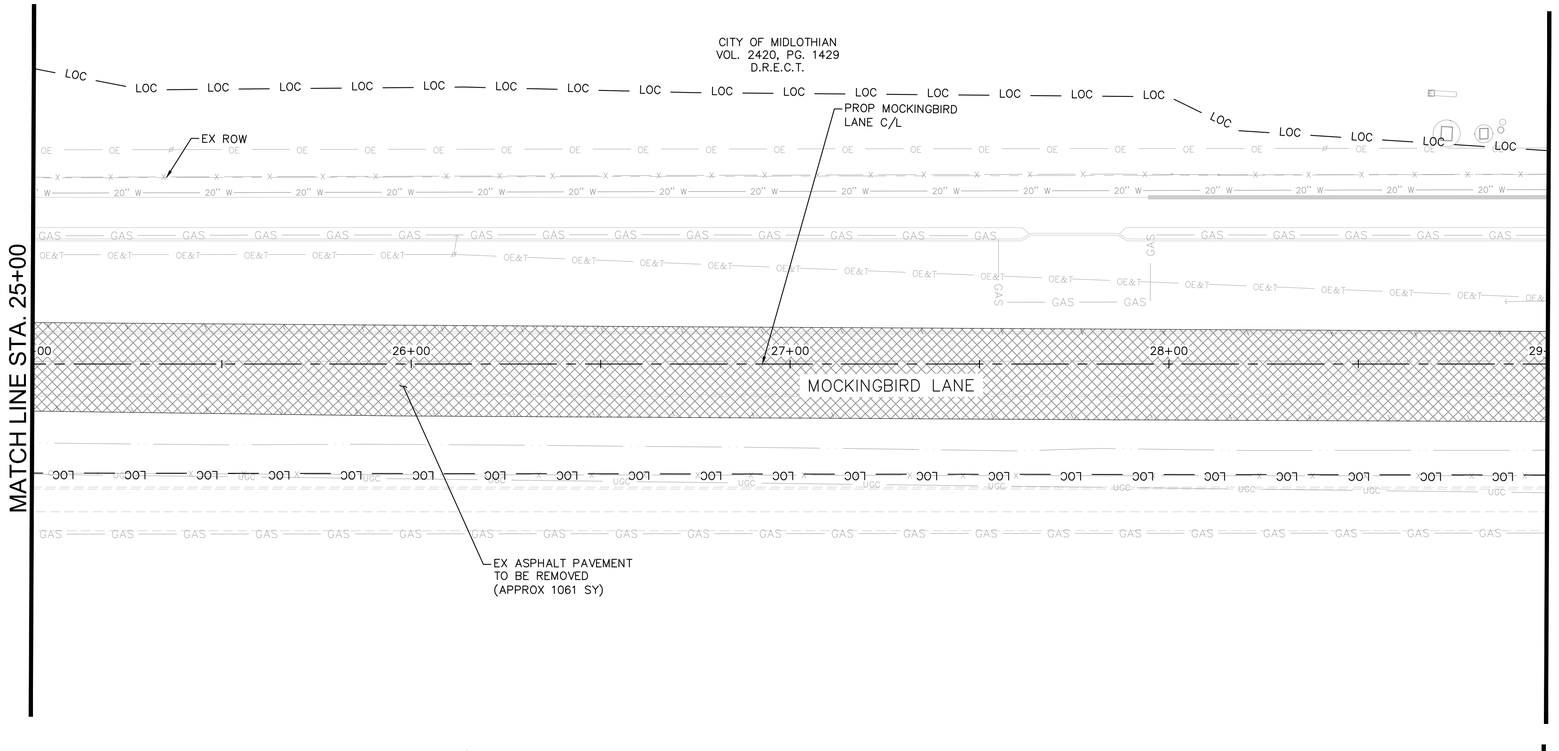
DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

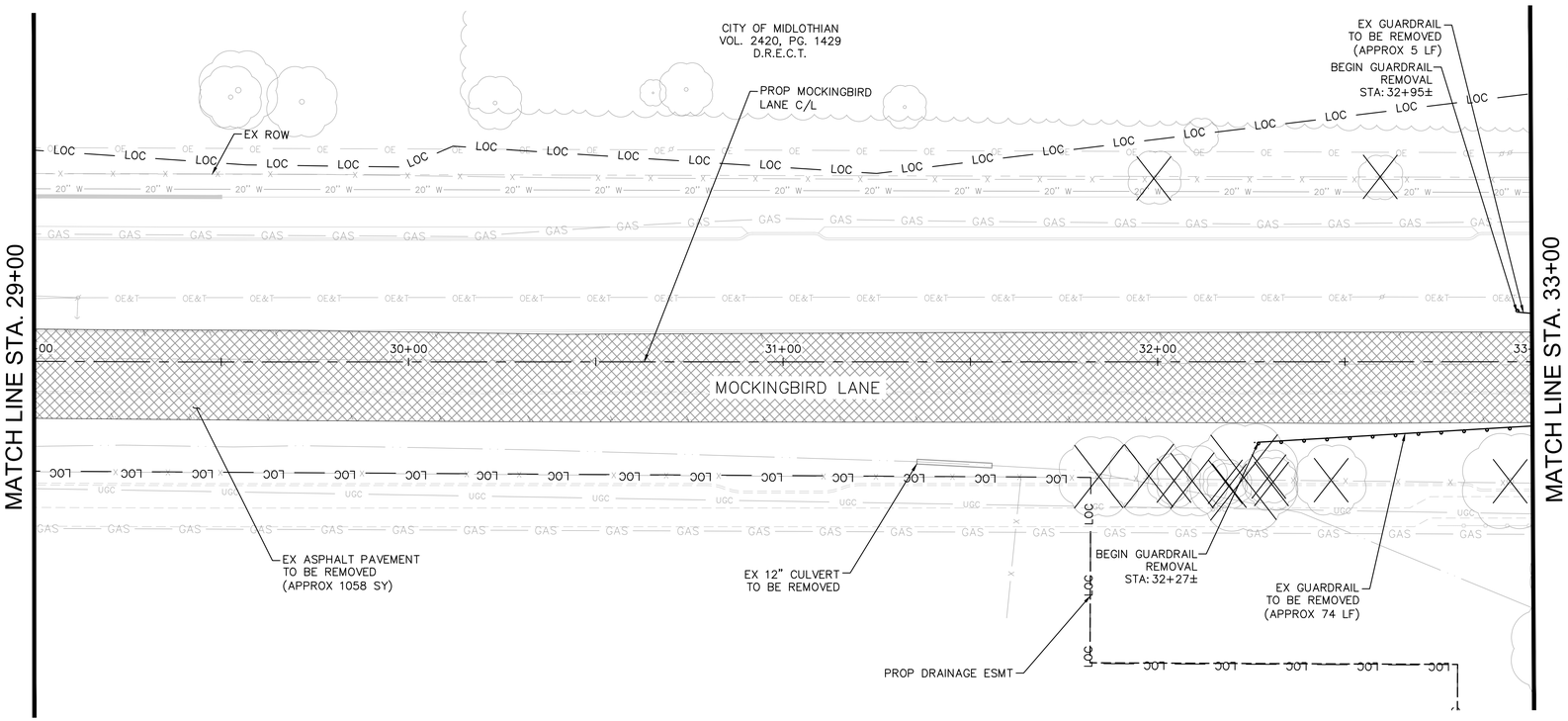
SHEET NUMBER
C0.20

2026-08-21 11:31:44, Del Rosso, Austin
Plotted, By: 2026-08-21 10:43:08 (REMOVAL PLAN – STA 17+00 TO STA 25+00)
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\removal begin to sta 57+00.dwg
Filename:



KEY MAP





GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

LEGEND

- REMOVE CONCRETE PAVEMENT
- REMOVE ASPHALT
- REMOVE GRAVEL DRIVEWAY
- REMOVE CONCRETE SIDEWALK
- REMOVE CURB AND GUTTER
- REMOVE SIGN
- REMOVE TREE
- TREE TO REMAIN
- REMOVE FENCE — X
- FENCE TO REMAIN — X
- LIMITS OF CONSTRUCTION — LOC

NOTES:
1. SEE SHEET C0.33 FOR SUMMARY OF REMOVAL QUANTITIES.
2. ALL EXISTING STREET NAME SIGNS TO BE PROTECTED BY CONTRACTOR AND REUSED UNLESS OTHERWISE NOTED.
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8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

REMOVAL PLAN - STA
25+00 TO STA 33+00

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER

C0.21

Plotted By: 2026-08-21 11:31:57, Del Rosso, Austin
Last Saved: 2026-08-21 10:43:08 (REMOVAL PLAN – STA 25+00 TO STA 33+00)
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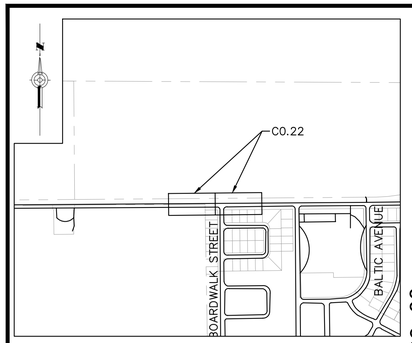
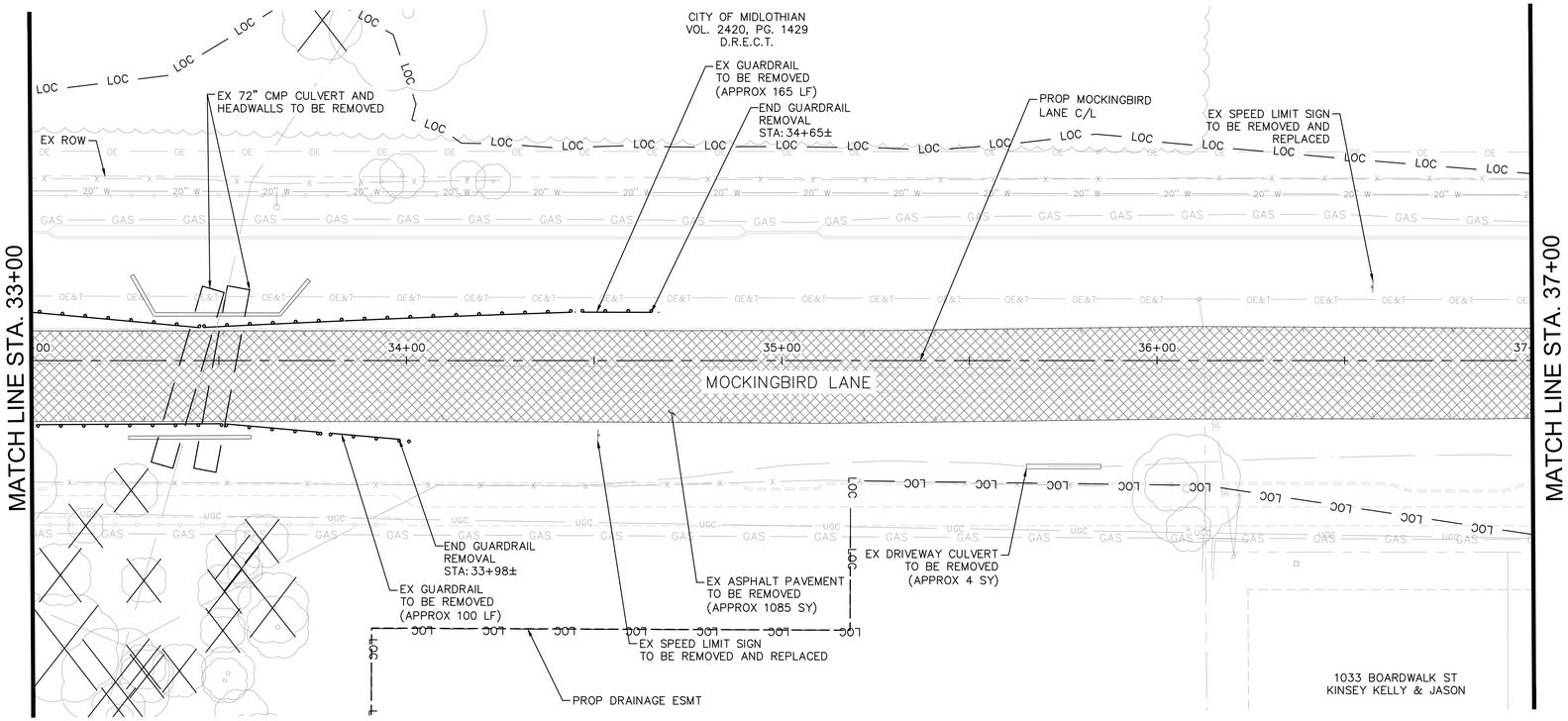
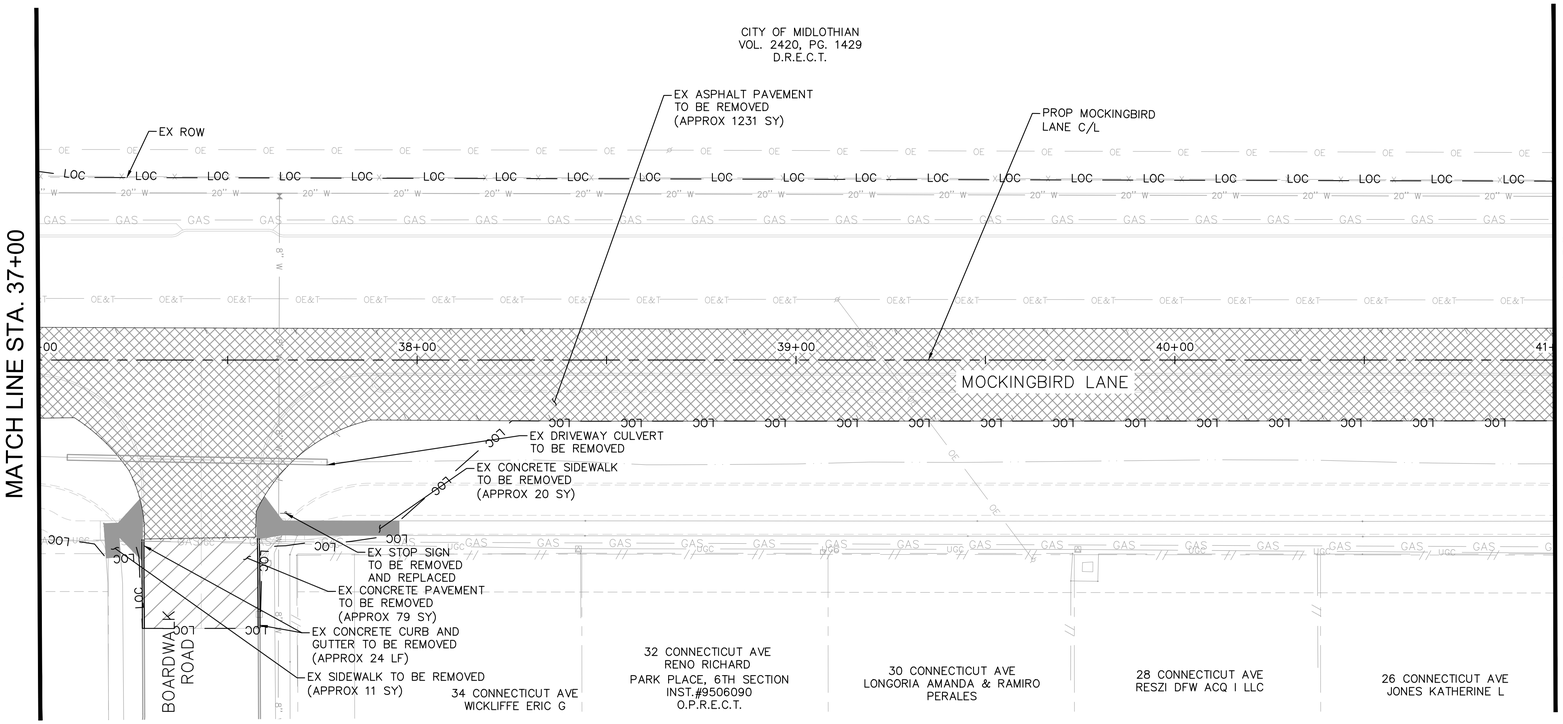


KEY MAP





GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

LEGEND

- REMOVE CONCRETE PAVEMENT
- REMOVE ASPHALT
- REMOVE GRAVEL DRIVEWAY
- REMOVE CONCRETE SIDEWALK
- REMOVE CURB AND GUTTER
- REMOVE SIGN
- REMOVE TREE
- TREE TO REMAIN
- REMOVE FENCE
- FENCE TO REMAIN
- LIMITS OF CONSTRUCTION

NOTES:
1. SEE SHEET C0.33 FOR SUMMARY OF REMOVAL QUANTITIES.
2. ALL EXISTING STREET NAME SIGNS TO BE PROTECTED BY CONTRACTOR AND REUSED UNLESS OTHERWISE NOTED.
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8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

REMOVAL PLAN - STA 33+00 TO STA 41+00

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER

C0.22

Plotted, By: 2026-08-21 11:32:12 Del Rosso, Austin
Last Saved: 2026-08-21 10:43:08 (REMOVAL PLAN – STA 33+00 TO STA 41+00)
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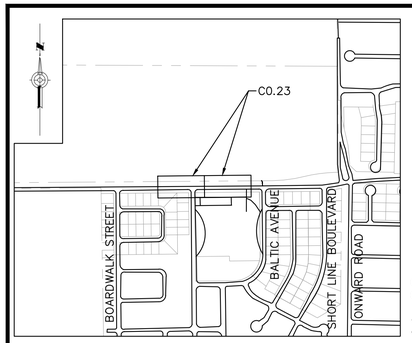
Filename: lane\cadd\sheets\removal begin to sta 57+00.dwg



KEY MAP

MATCH LINE STA. 41+00

CITY OF MIDLOTHIAN
VOL. 2420, PG. 1429
D.R.E.C.T.

EX ROW

EX SCHOOL ZONE SIGN
TO BE REMOVED AND REPLACED

PROP MOCKINGBIRD
LANE C/L

MOCKINGBIRD LANE

EX SCHOOL ZONE FLASHER
AND ASSEMBLY TO BE
REMOVED AND RELOCATED

EX ASPHALT PAVEMENT
TO BE REMOVED
(APPROX 1110 SY)

24 CONNECTICUT AVE
PHELPS CLIFTON E &
BRANDY M

EX CONCRETE SIDEWALK
TO BE REMOVED
(APPROX 20 SY)

EX TRAFFIC SIGN TO BE
REMOVED AND REPLACED

EX SCHOOL ZONE SIGN
TO BE REMOVED AND REPLACED

EX CONCRETE CURB AND
GUTTER TO BE REMOVED
(APPROX 25 LF)

1033 PARK PLACE BLVD
MONTALVO SEDRIAL J

PARK PLACE
BOULEVARD

EX CONCRETE SIDEWALK
TO BE REMOVED
(APPROX 22 SY)

EX STOP SIGN TO BE
REMOVED AND REPLACED

EX CONCRETE CURB AND
GUTTER TO BE REMOVED
(APPROX 25 LF)

EX CONCRETE PAVEMENT
TO BE REMOVED
(APPROX 210 SY)

MIDLOTHIAN I.S.D.
PARK PLACE
2ND SECTION
LOT 1, BLOCK 7
CAB. B, SLIDE 482
P.R.E.C.T.

MATCH LINE STA. 45+00

CITY OF MIDLOTHIAN
VOL. 2420, PG. 1429
D.R.E.C.T.

EX ROW

PROP MOCKINGBIRD
LANE C/L

MOCKINGBIRD LANE

EX RETAINING WALL
TO BE REMOVED

EX ASPHALT PAVEMENT
TO BE REMOVED
(APPROX 1099 SY)

MIDLOTHIAN I.S.D.
PARK PLACE
2ND SECTION
LOT 1, BLOCK 7
CAB. B, SLIDE 482
P.R.E.C.T.

EX CONCRETE SIDEWALK
TO BE REMOVED
(APPROX 15 SY)

EX ENTRY SIGN TO BE
REMOVED AND REPLACED

EX CONCRETE CURB AND
GUTTER TO BE REMOVED
(APPROX 55 LF)

EX CONCRETE PAVEMENT
TO BE REMOVED
(APPROX 115 SY)

EX CONCRETE
SIDEWALK TO BE
REMOVED
(APPROX 14 SY)

EX CONCRETE
CURB AND
GUTTER TO BE
REMOVED
(APPROX 55 LF)

MATCH LINE STA. 49+00

GRAPHIC SCALE
20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

LEGEND

- REMOVE CONCRETE PAVEMENT
- REMOVE ASPHALT
- REMOVE GRAVEL DRIVEWAY
- REMOVE CONCRETE SIDEWALK
- REMOVE CURB AND GUTTER
- REMOVE SIGN
- REMOVE TREE
- TREE TO REMAIN
- REMOVE FENCE
- FENCE TO REMAIN
- LIMITS OF CONSTRUCTION — LOC

NOTES:
1. SEE SHEET C0.33 FOR SUMMARY OF REMOVAL QUANTITIES.
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No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER

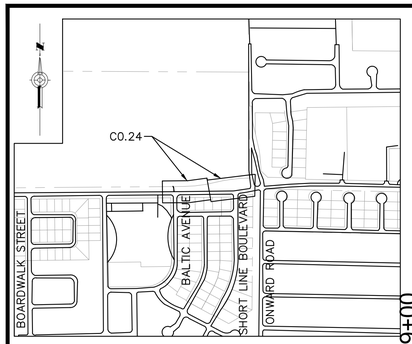
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

REMOVAL PLAN - STA
41+00 TO STA 49+00

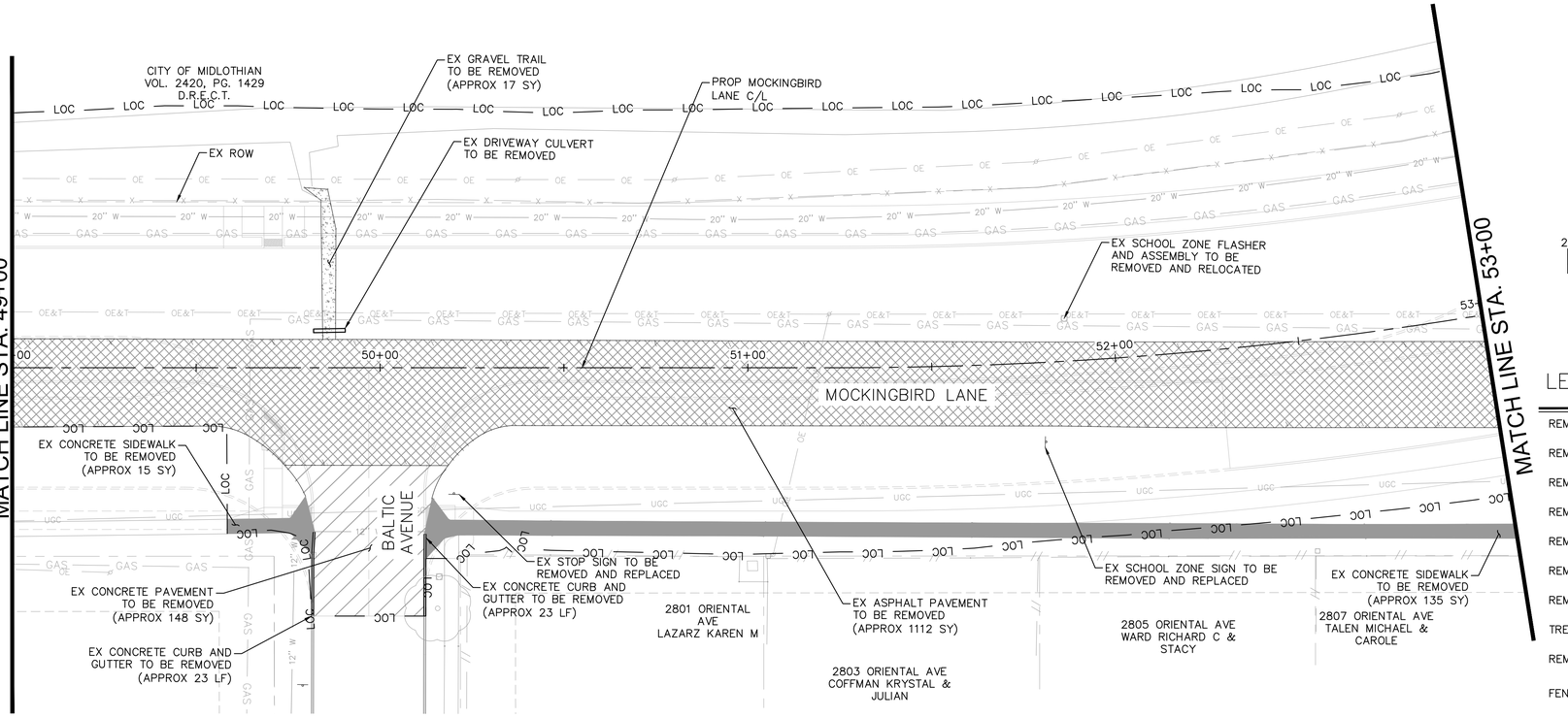
DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

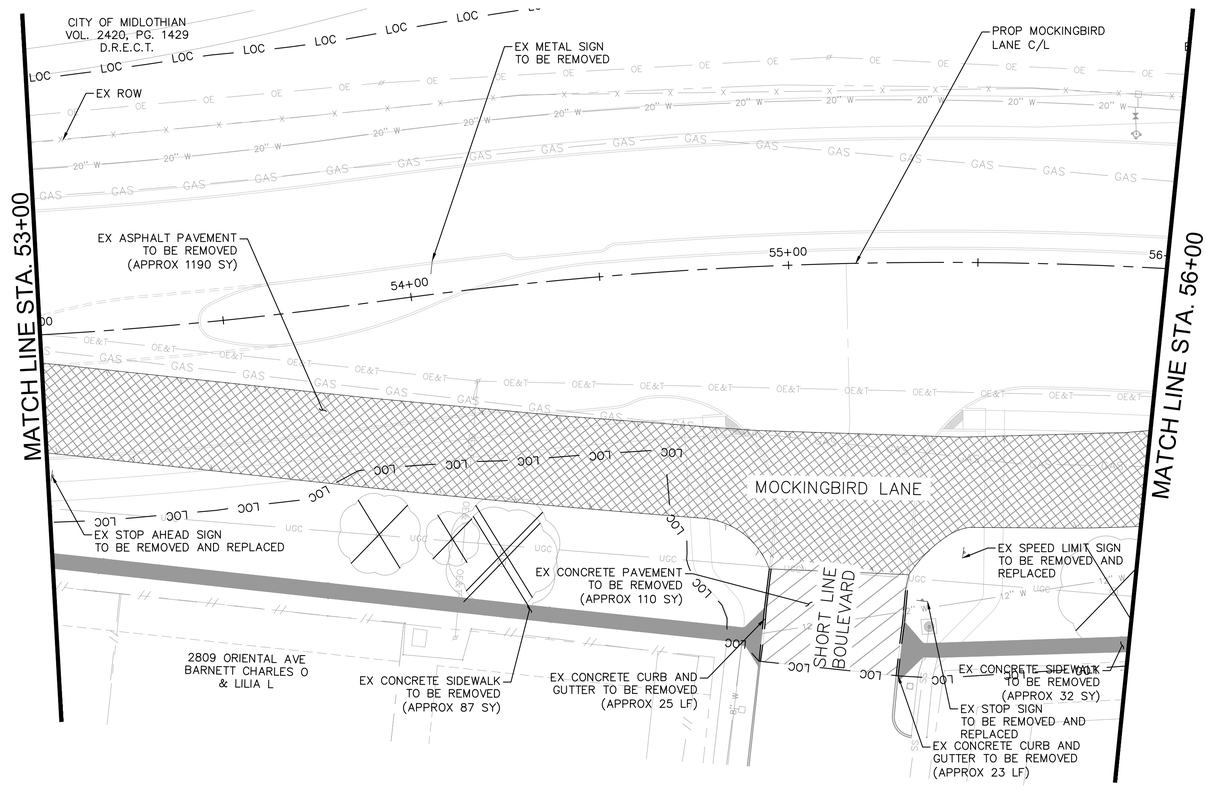
SHEET NUMBER
C0.23

2026-08-21 11:32:26, Del Rosso, Austin
Plotted, By: 2026-08-21 10:43:08 (REMOVAL PLAN – STA 41+00 TO STA 49+00)
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\removal begin to sta 57+00.dwg
Filename: lane\cadd\sheets\removal begin to sta 57+00.dwg



KEY MAP





GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

LEGEND

- REMOVE CONCRETE PAVEMENT
- REMOVE ASPHALT
- REMOVE GRAVEL DRIVEWAY
- REMOVE CONCRETE SIDEWALK
- REMOVE CURB AND GUTTER
- REMOVE SIGN
- REMOVE TREE
- TREE TO REMAIN
- REMOVE FENCE
- FENCE TO REMAIN
- LIMITS OF CONSTRUCTION — LOC

NOTES:
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8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

REMOVAL PLAN - STA
49+00 TO STA 56+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C0.24

Plotted By: 2026-08-21 11:32:38 Del Rosso, Austin
Last Saved: 2026-08-21 10:43:08 (REMOVAL PLAN – STA 49+00 TO STA 56+00)
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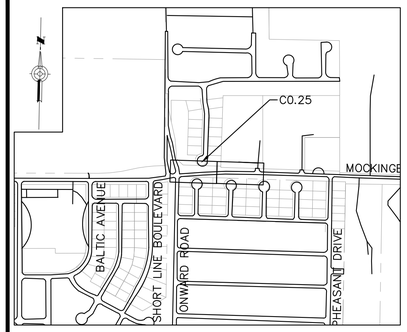


KEY MAP

MATCH LINE
ONWARD ROAD STA. 6+00 - SEE SHEET C0.32

MATCH LINE STA. 56+00

PROP ONWARD ROAD C/L

ONWARD ROAD

EX CONCRETE CURB AND GUTTER TO BE REMOVED (APPROX 10 LF)

EX CONCRETE SIDEWALK TO BE REMOVED (APPROX 69 SY)

EX (3) 24" CPP CULVERT AND HEADWALLS TO BE REMOVED

EX CONCRETE CURB AND GUTTER TO BE REMOVED (APPROX 10 LF)

EX CONCRETE RIP RAP TO BE REMOVED (APPROX 16 SY)

EX ROW

EX METAL SIGN TO BE REMOVED

EX CONCRETE RIP RAP TO BE REMOVED (APPROX 40 SY)

EX 33" RCP CULVERT AND HEADWALLS TO BE REMOVED

EX GRAVEL DRIVEWAY TO BE REMOVED (APPROX 375 SY)

EX STOP SIGN TO BE REMOVED AND REPLACED

EX TRAFFIC SIGN TO BE REMOVED AND REPLACED

EX ASPHALT PAVEMENT TO BE REMOVED (APPROX 1423 SY)

PROP MOCKINGBIRD LANE C/L

57+00 58+00 59+00 60+00

MOCKINGBIRD LANE

END REMOVAL OF CONCRETE PAVEMENT STA: 4+38±

EX CONCRETE PAVEMENT TO BE REMOVED (APPROX 246 SF)

EX STOP SIGN TO BE REMOVED AND REPLACED

EX 33" CMP CULVERT AND HEADWALLS TO BE REMOVED

EX CONCRETE SIDEWALK TO BE REMOVED (APPROX 60 SY)

EXISTING CONCRETE MANHOLE PAD TO BE REMOVED

1145 STARLING CIR
MORRIS HEATHER
& ALEXANDER

MOCKINGBIRD ESTATES
INST.#9924620
O.P.R.E.C.T.

EX CONCRETE CURB AND GUTTER TO BE REMOVED (APPROX 77 LF)

1024 SHORT LINE BLVD
DUNCAN JANET T

EX CONCRETE RIP RAP TO BE REMOVED (APPROX 31 SY)

EX CONCRETE CURB AND GUTTER TO BE REMOVED (APPROX 72 LF)

EX CONCRETE SIDEWALK TO BE REMOVED (APPROX 45 SY)

MATCH LINE ONWARD ROAD STA. 3+50 - SEE SHEET C0.32

MATCH LINE STA. 60+00

1302 GREENROCK CT
KASSEN CLINTON K &
HANNAH J

EX STOP AHEAD SIGN TO BE REMOVED TO BE REMOVED AND REPLACED

PROP DRAINAGE ESMT

EX ROCK RIP RAP TO BE REMOVED (APPROX 8 SY)

EX ASPHALT PAVEMENT TO BE REMOVED (APPROX 1010 SY)

3221 MOCKINGBIRD LN
THE SHEPHERD'S HOUSE OF THE NAZARENE
VOL. 2307, PG. 2208
D.R.E.C.T.

PROP MOCKINGBIRD LANE C/L

EX ROW

CHURCH DRIVE

EX CONCRETE PAVEMENT TO BE REMOVED (APPROX 113 SY)

MOCKINGBIRD LANE

61+00 62+00 63+00 64+00 65

MATCH LINE STA. 65+00

1146 STARLING CIR
SEAGO DAVID

1145 FINCH CIR
KETTER STEPHEN
& JENNIFER

1146 FINCH CIR
OPENDOOR
PROPERTY TRUST

1145 ROBIN CIR
LLOYD DYLAN

MATCH LINE STA. 60+00

GRAPHIC SCALE
20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

LEGEND

REMOVE CONCRETE PAVEMENT	
REMOVE ASPHALT	
REMOVE GRAVEL DRIVEWAY	
REMOVE CONCRETE SIDEWALK	
REMOVE CURB AND GUTTER	
REMOVE SIGN	
REMOVE TREE	
TREE TO REMAIN	
REMOVE FENCE	X
FENCE TO REMAIN	X
LIMITS OF CONSTRUCTION	LOC

NOTES:
1. SEE SHEET C0.33 FOR SUMMARY OF REMOVAL QUANTITIES.
2. ALL EXISTING STREET NAME SIGNS TO BE PROTECTED BY CONTRACTOR AND REUSED UNLESS OTHERWISE NOTED.
3. NOT ALL UNDERGROUND UTILITIES ARE NOTED–SEE OTHER SHEETS FOR WATER AND STORM PIPE AND APPURTENANCE REMOVALS.
4. ALL TREES SHALL BE REMOVED UNLESS OTHERWISE NOTED. CONTRACTOR TO VISIT THE SITE TO REVIEW NUMBER, SPECIES AND SIZE OF TREE REMOVAL.

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER
8/21/2026

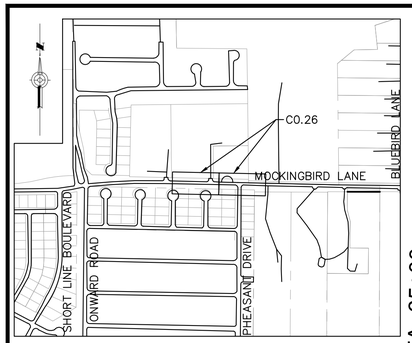
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

REMOVAL PLAN - STA
56+00 TO STA 65+00

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C0.25

2026-08-21 11:33:18, Del Rosso, Austin
Plotted, By: 2026-08-21 10:40:39 (REMOVAL PLAN – STA 56+00 TO STA 65+00)
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\removal sta 57+00 to end.dwg
Filename: lane\cadd\sheets\removal sta 57+00 to end.dwg



KEY MAP

MATCH LINE STA. 65+00

CITY OF MIDLOTHIAN
VOL. 1980, PG. 2052
D.R.E.C.T.

EX ASPHALT PAVEMENT TO BE REMOVED (APPROX 970 SY)

PROP SARDIS WATERLINE ESMT

PROP MOCKINGBIRD LANE C/L

EX CONCRETE CURB AND GUTTER TO BE REMOVED (APPROX 32 LF)

EX NO PARKING SIGN TO BE REMOVED AND REPLACED

EX 12" DRIVEWAY CULVERT TO BE REMOVED

EX CONCRETE PAVEMENT TO BE REMOVED (APPROX 215 SY)

EX CONCRETE CURB AND GUTTER TO BE REMOVED (APPROX 33 LF)

NO PARKING SIGN TO BE REMOVED AND REPLACED

EX 12" DRIVEWAY CULVERT TO BE REMOVED

MOCKINGBIRD LANE

66+00 67+00 68+00 69+00

EX ADOPT A STREET SIGN TO BE REMOVED AND REPLACED

1146 SPARROW CIR
BRANTLEY JULIE S

1145 ROBIN CIR
LLOYD JULIE S

1146 ROBIN CIR
BARR STEVEN G & SANDRA S

MATCH LINE STA. 69+00

MATCH LINE STA. 73+00

EX GRAVEL DRIVEWAY TO BE REMOVED (APPROX 268 SY)

EX 12" DRIVEWAY CULVERT TO BE REMOVED

EX 12" DRIVEWAY CULVERT TO BE REMOVED

EX ROW

PROP SARDIS WATERLINE ESMT

RICKIE WOOD
VOL. 1171, PG. 807
D.R.E.C.T.

EX ASPHALT PAVEMENT TO BE REMOVED (APPROX 1128 SY)

MOCKINGBIRD LANE

70+00 71+00 72+00 73+00

EX CONCRETE CURB AND GUTTER TO BE REMOVED (APPROX 45 LF)

PROP MOCKINGBIRD LANE C/L

EX CONCRETE SIDEWALK TO BE REMOVED (APPROX 10 SY)

PHEASANT DRIVE

EX STOP SIGN TO BE REMOVED AND REPLACED

EX CONCRETE PAVEMENT TO BE REMOVED (APPROX 175 SY)

EX MAILBOX TO REMAIN

EX CONCRETE CURB AND GUTTER TO BE REMOVED (APPROX 43 LF)

EX MAILBOX TO REMAIN

1141 PHEASANT DR
RODGERS GUY & GINA
D I VEROLI

1142 PHEASANT DR
RODGERS RIOS ADOLIO

3270 MOCKINGBIRD LN
BLOOMFIELD HOMES LP
CEDAR HIGHLANDS
LOTS 1 AND 2
CAB. C, SLIDE 527
P.R.E.C.T.

GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

LEGEND

- REMOVE CONCRETE PAVEMENT
- REMOVE ASPHALT
- REMOVE GRAVEL DRIVEWAY
- REMOVE CONCRETE SIDEWALK
- REMOVE CURB AND GUTTER
- REMOVE SIGN
- REMOVE TREE
- TREE TO REMAIN
- REMOVE FENCE — X —
- FENCE TO REMAIN — X —
- LIMITS OF CONSTRUCTION — LOC —

NOTES:

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Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

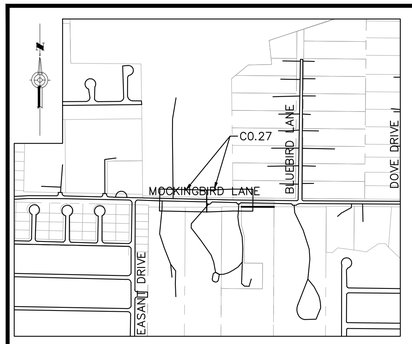
REMOVAL PLAN - STA 65+00 TO STA 73+00

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

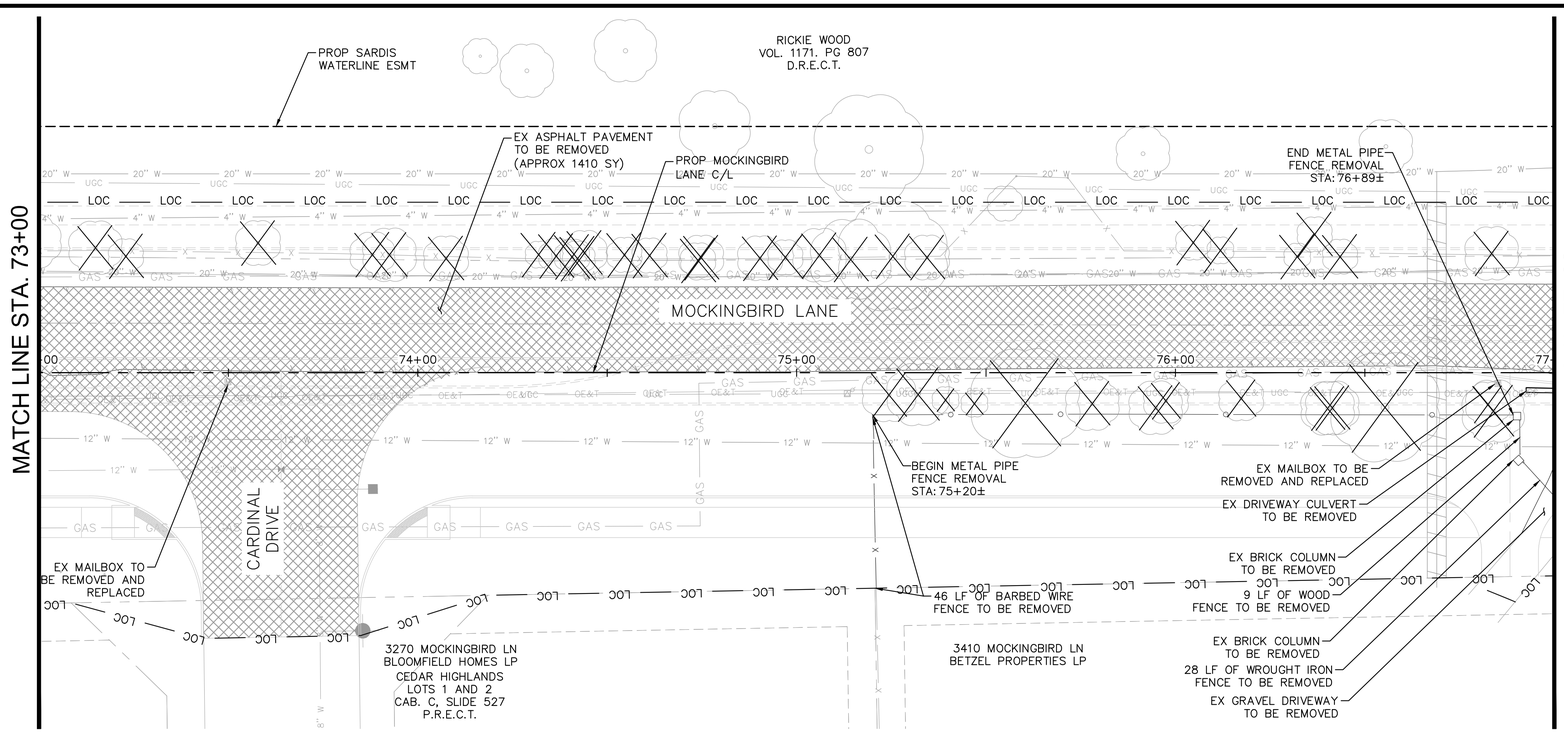
SHEET NUMBER

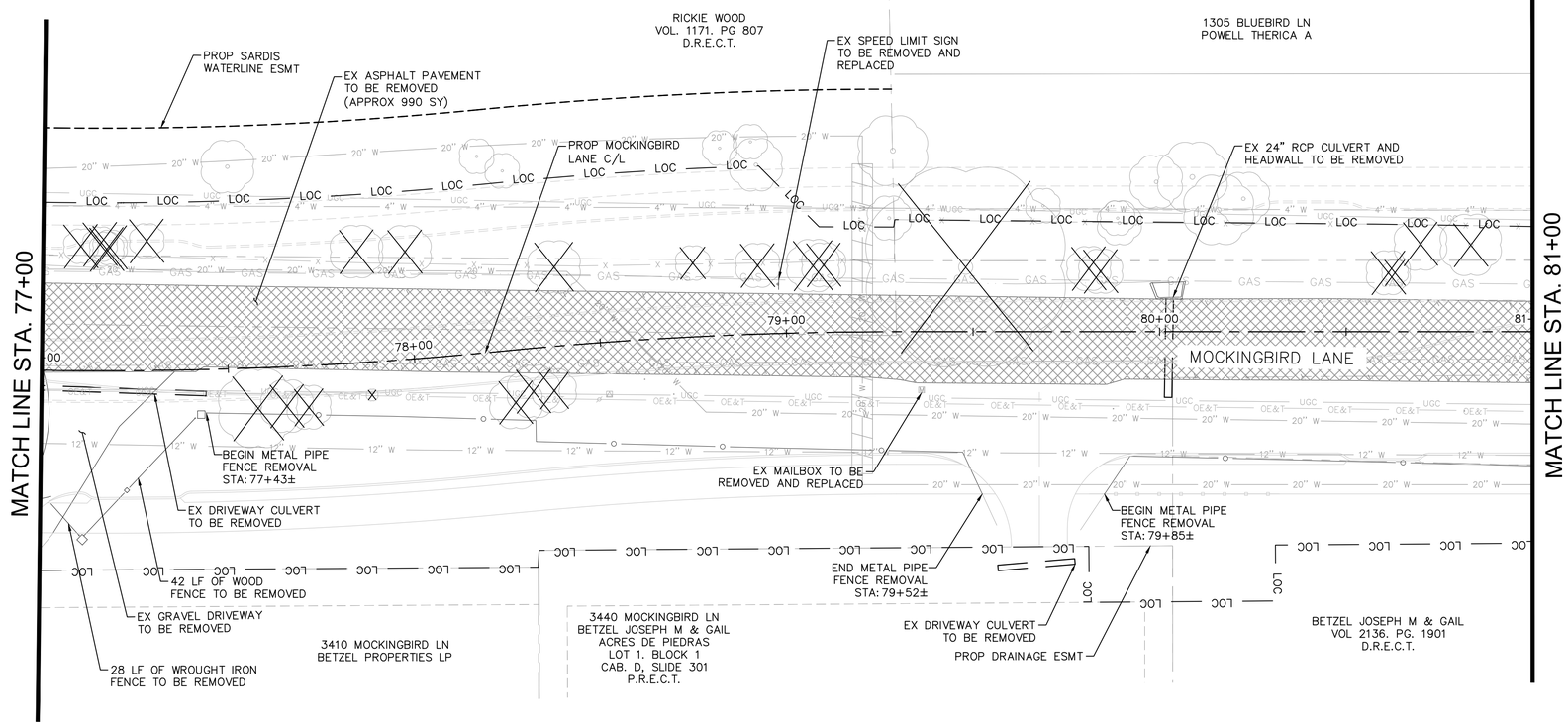
C0.26

Plotted By: 2026-08-21 11:33:44, Del Rosso, Austin
Last Saved: 2026-08-21 10:40:39 (REMOVAL PLAN – STA 65+00 TO STA 73+00)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\removal sta 57+00 to end.dwg



KEY MAP





GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

LEGEND

- REMOVE CONCRETE PAVEMENT
- REMOVE ASPHALT
- REMOVE GRAVEL DRIVEWAY
- REMOVE CONCRETE SIDEWALK
- REMOVE CURB AND GUTTER
- REMOVE SIGN
- REMOVE TREE
- TREE TO REMAIN
- REMOVE FENCE — X
- FENCE TO REMAIN — X
- LIMITS OF CONSTRUCTION — LOC

NOTES:
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Kimley»Horn

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No.	Revision	By	Date

8/21/2026

STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

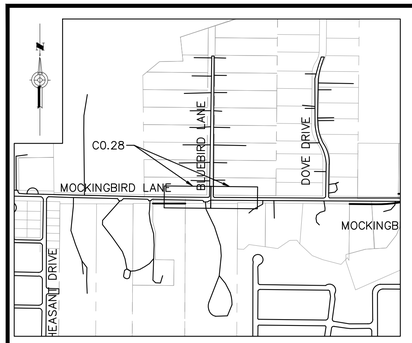
REMOVAL PLAN - STA
73+00 TO STA 81+00

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

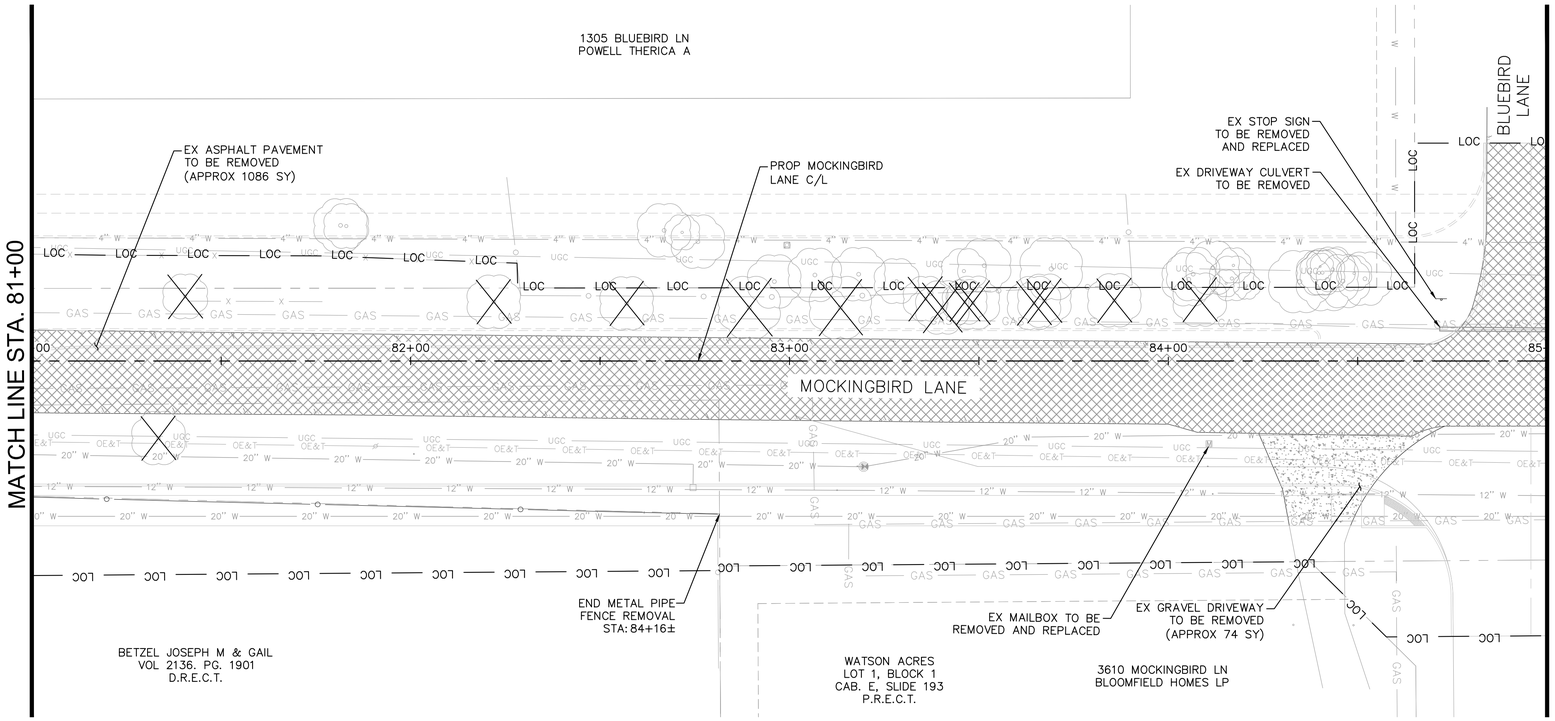
SHEET NUMBER

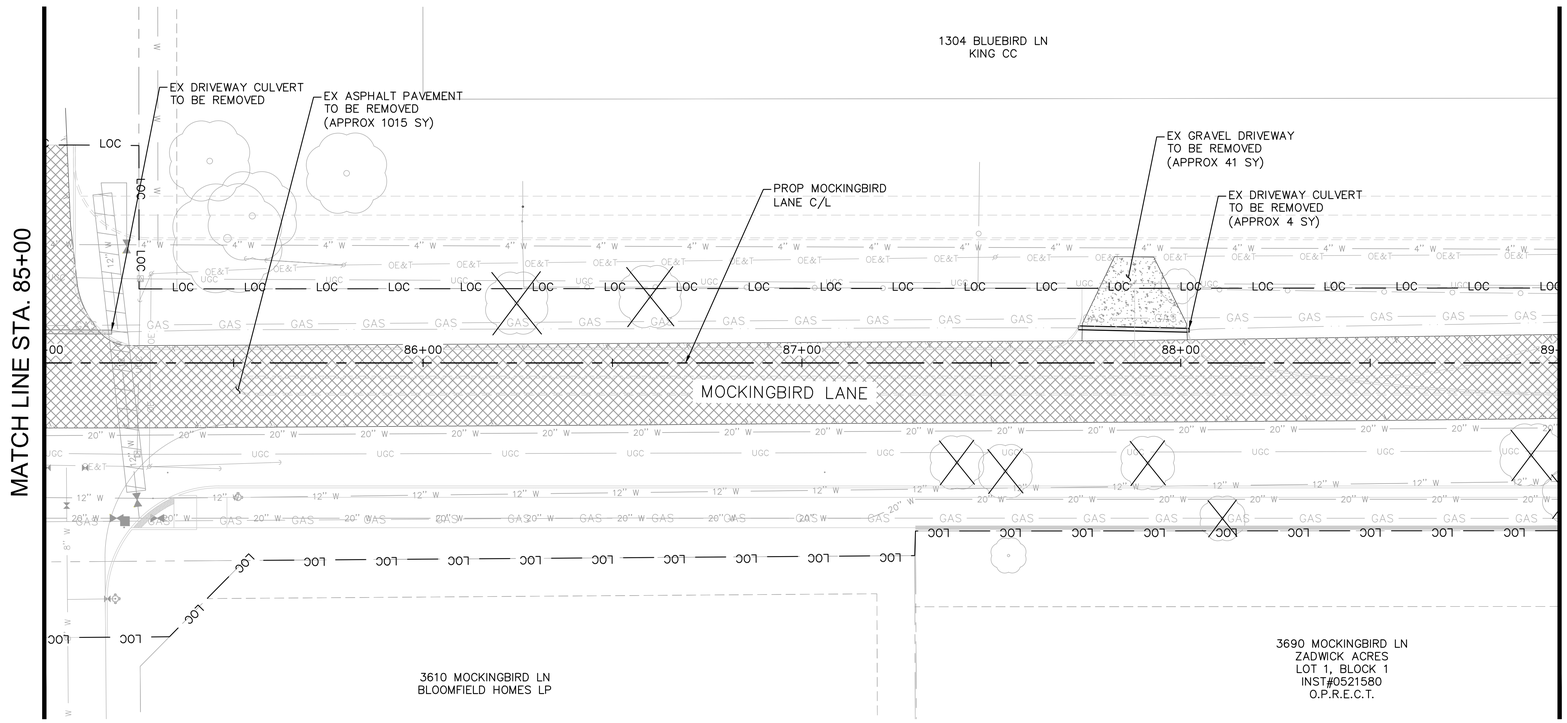
C0.27

Plotted By: 2026-08-21 11:34:05, Del Rosso, Austin
Last Saved: 2026-08-21 10:40:39 (REMOVAL PLAN – STA 73+00 TO STA 81+00)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\removal sta 57+00 to end.dwg



KEY MAP





GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

LEGEND

- REMOVE CONCRETE PAVEMENT
- REMOVE ASPHALT
- REMOVE GRAVEL DRIVEWAY
- REMOVE CONCRETE SIDEWALK
- REMOVE CURB AND GUTTER
- REMOVE SIGN
- REMOVE TREE
- TREE TO REMAIN
- REMOVE FENCE — X
- FENCE TO REMAIN — X
- LIMITS OF CONSTRUCTION — LOC

NOTES:
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Kimley»Horn
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No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

REMOVAL PLAN - STA 81+00 TO STA 89+00

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER

C0.28

Plotted, By: 2026-08-21 11:34:26, Del Rosso, Austin
Last Saved: 2026-08-21 10:40:39 (REMOVAL PLAN – STA 81+00 TO STA 89+00)
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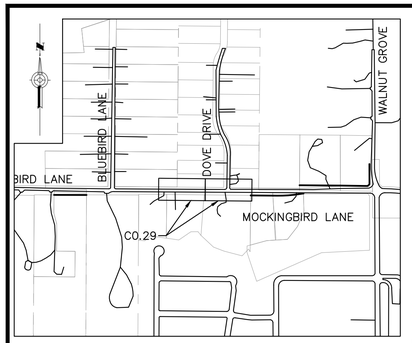
Filename: lane\cadd\sheets\removal sta 57+00 to end.dwg



KEY MAP

MATCH LINE STA. 89+00

1304 BLUEBIRD LN
KING CC

1305 DOVE DR
HARE THOMAS V
BLOCK C
MOCKINGBIRD ACRES 2
CAB. A, SL. 579
P.R.E.C.T.

PROP MOCKINGBIRD LANE C/L

EX ASPHALT PAVEMENT TO BE REMOVED (APPROX 988 SY)

MOCKINGBIRD LANE

EX CONCRETE CURB TO BE REMOVED (APPROX 3 LF)

EX MAILBOX TO BE REMOVED AND REPLACED

EX CONCRETE CURB TO BE REMOVED (APPROX 3 LF)

EX DRIVEWAY CULVERT TO BE REMOVED

EX BRICK COLUMN TO BE REMOVED

EX CONCRETE PAVEMENT TO BE REMOVED (APPROX 52 SY)

EX MAILBOX TO BE REMOVED AND REPLACED

EX BRICK COLUMN TO BE REMOVED

EX DRIVEWAY CULVERT TO BE REMOVED

EX CONCRETE PAVEMENT TO BE REMOVED (APPROX 42 SY)

41 LF OF WROUGHT IRON FENCE TO BE REMOVED

3696 MOCKINGBIRD LN
OBERSHAW ACRES
LOTS 1 AND 2
INST#0628739
O.P.R.E.C.T.

BEGIN METAL PIPE FENCE REMOVAL STA: 92+91±

3690 MOCKINGBIRD LN
ZADWICK ACRES

MATCH LINE STA. 93+00

GRAPHIC SCALE
20 0 10 20 40
ORIGINAL PLOTTED SCALE: 1 inch = 20 ft.
IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 40 FT

LEGEND

REMOVE CONCRETE PAVEMENT	
REMOVE ASPHALT	
REMOVE GRAVEL DRIVEWAY	
REMOVE CONCRETE SIDEWALK	
REMOVE CURB AND GUTTER	
REMOVE SIGN	
REMOVE TREE	
TREE TO REMAIN	
REMOVE FENCE	X
FENCE TO REMAIN	X
LIMITS OF CONSTRUCTION	LOC

MATCH LINE STA. 93+00

1304 DOVE DR
BROW CASWALL & VIOLET
BLOCK D
MOCKINGBIRD ACRES 2
CAB. A, SL. 579
P.R.E.C.T.

DOVE DRIVE

EX STOP SIGN TO BE REMOVED AND REPLACED

EX ASPHALT PAVEMENT TO BE REMOVED (APPROX 1090 SY)

PROP MOCKINGBIRD LANE C/L

EX DRIVEWAY CULVERT TO BE REMOVED

MOCKINGBIRD LANE

EX MAILBOX TO BE REMOVED AND REPLACED

EX CONCRETE CURB AND GUTTER TO BE REMOVED (APPROX 13 LF)

EX CONCRETE CURB AND GUTTER TO BE REMOVED (APPROX 12 LF)

EX DRIVEWAY CULVERT TO BE REMOVED (APPROX 12 LF)

EX CONCRETE PAVEMENT TO BE REMOVED (APPROX 46 SY)

EX DRIVEWAY CULVERT TO BE REMOVED (APPROX 13 LF)

EX CONCRETE PAVEMENT TO BE REMOVED (APPROX 49 SY)

END METAL PIPE FENCE REMOVAL STA: 96+90±

3810 MOCKINGBIRD LN
OBERSHAW WILLIAM E & VIRGINIA K
OBERSHAW ACRES
LOTS 1 AND 2
INST.#0628739
O.P.R.E.C.T.

MATCH LINE STA. 97+00

NOTES:
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Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

REMOVAL PLAN - STA 89+00 TO STA 97+00

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C0.29

Plotted By: 2026-08-21 11:34:47, Del Rosso, Austin
Last Saved: 2026-08-21 10:40:39 (REMOVAL PLAN – STA 89+00 TO STA 97+00)
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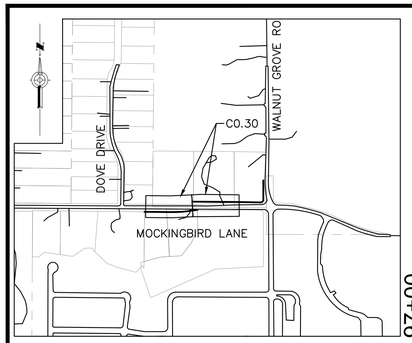
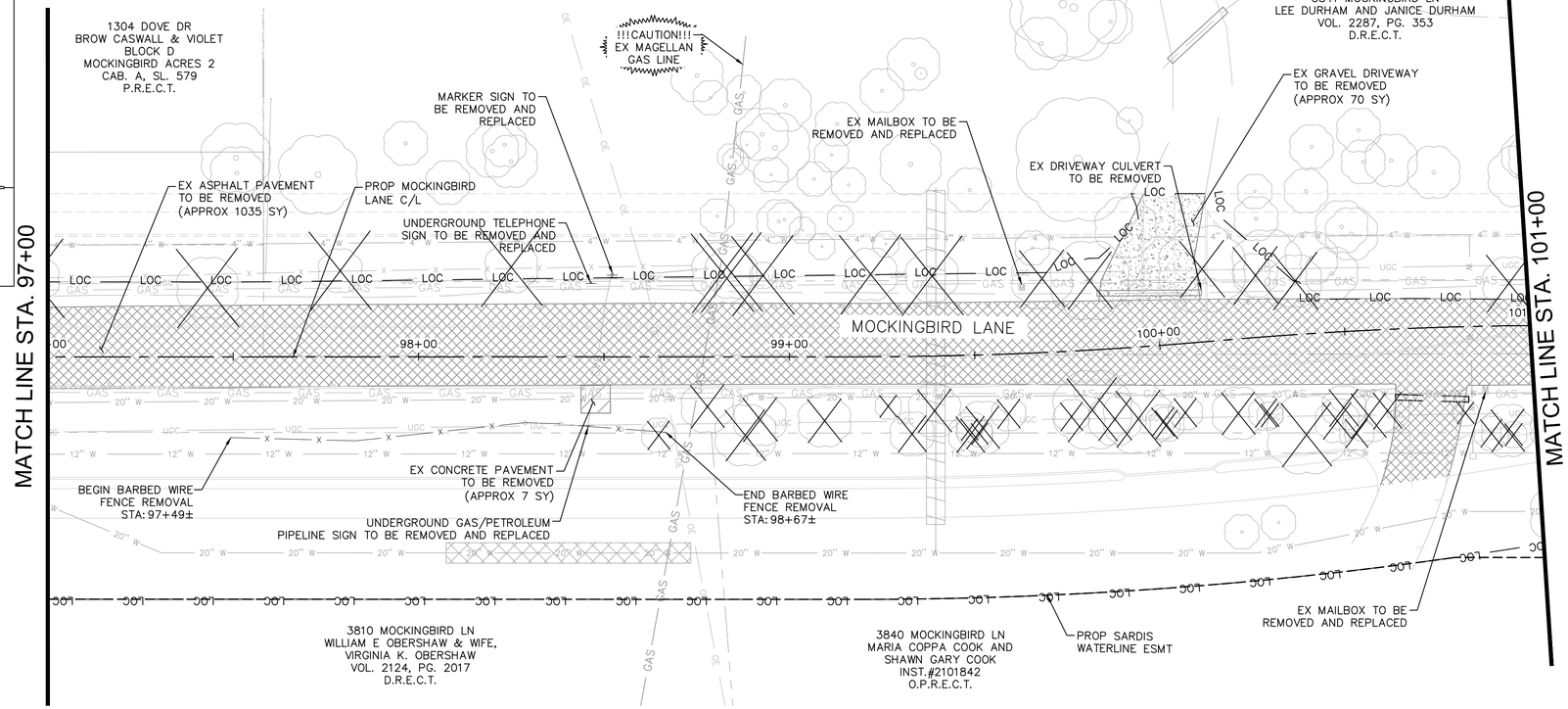
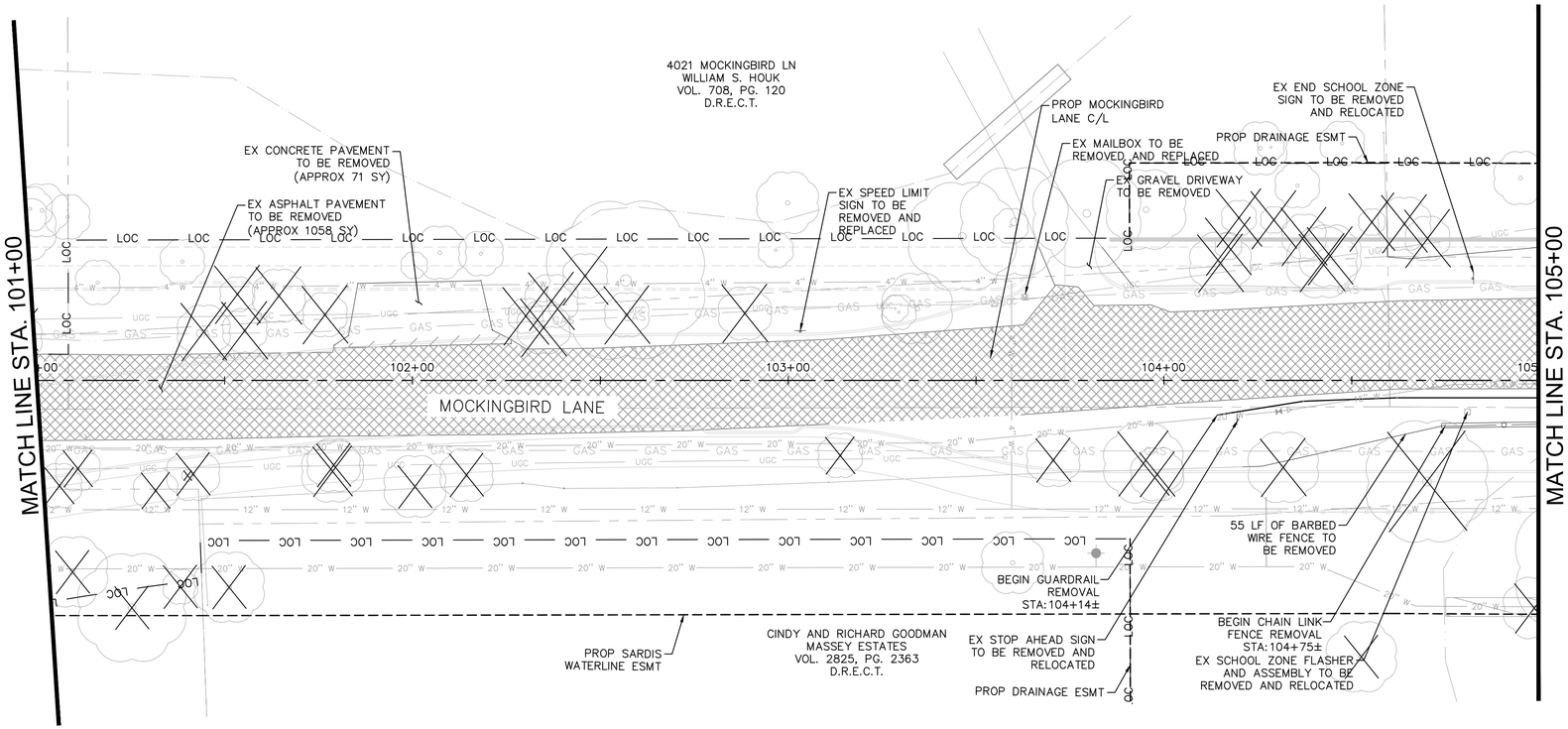
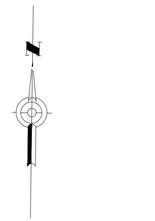


KEY MAP







ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

LEGEND

- REMOVE CONCRETE PAVEMENT
- REMOVE ASPHALT
- REMOVE GRAVEL DRIVEWAY
- REMOVE CONCRETE SIDEWALK
- REMOVE CURB AND GUTTER
- REMOVE SIGN
- REMOVE TREE
- TREE TO REMAIN
- REMOVE FENCE — X
- FENCE TO REMAIN — X
- LIMITS OF CONSTRUCTION — LOC

WARNING
HIGH PRESSURE PIPELINE(S)
EXCAVATION AND/OR CONSTRUCTION PROHIBITED WITHOUT COMPLIANCE WITH **STATE ONE-CALL**, AND WITHOUT WRITTEN PERMISSION FROM **MAGELLAN PIPELINE COMPANY, L.P.**

NOTES:
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No.	Revision	By	Date

STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL ENGINEER
8/21/2026

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

REMOVAL PLAN - STA
97+00 TO STA 105+00

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C0.30

Plotted By: 2026-08-21 11:35:07, Del Rosso, Austin
Last Saved: 2026-08-21 10:40:39 (REMOVAL PLAN – STA 97+00 TO STA 105+00)
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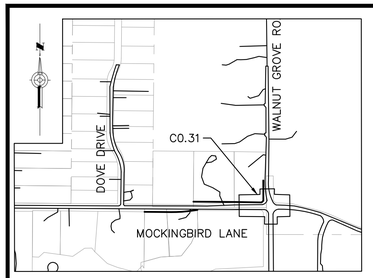

KEY MAP

MATCH LINE STA. 105+00

END REMOVAL OF ASPHALT PAVEMENT STA: 2+08±

1371 WALNUT GROVE RD
LOSPALLUTO MICHAEL T & JUDY K
VOL. 2229, PG. 625
D.R.E.C.T.

1510 WALNUT GROVE RD
ARNOLD DIANA L ETAL

BEGIN GUARDRAIL REMOVAL STA: 105+24±

EX TRAFFIC SIGN TO BE REMOVED AND RELOCATED

EX ASPHALT PAVEMENT TO BE REMOVED (APPROX 569 SY)

42 LF OF GUARDRAIL TO BE REMOVED

EX 60" CIP CULVERT TO BE REMOVED

EX HEADWALL TO BE REMOVED

PROP ROW

EX STOP SIGN TO BE REMOVED AND RELOCATED

END GUARDRAIL REMOVAL STA: 106+71±

N WALNUT GROVE ROAD

MOCKINGBIRD LANE

EX ASPHALT PAVEMENT TO BE REMOVED (APPROX 444 SY)

BEGIN REMOVAL OF CONCRETE PAVEMENT STA: 6+30±

PROP MOCKINGBIRD LANE C/L

EX STOP SIGN TO BE REMOVED AND RELOCATED

EX HEADWALL TO BE REMOVED

END GUARDRAIL REMOVAL STA: 106+10±

EX ROW

EX METAL SIGN TO BE REMOVED

END CHAIN LINK FENCE REMOVAL STA: 105+86±

EX STOP SIGN TO BE REMOVED AND RELOCATED

EX CONCRETE CURB AND GUTTER TO BE REMOVED (APPROX 231 LF)

EX CONCRETE PAVEMENT TO BE REMOVED (APPROX 535 SY)

PROP N WALNUT GROVE ROAD C/L

EX SCHOOL ZONE SIGN TO BE REMOVED AND RELOCATED

EX CONCRETE CURB AND GUTTER TO BE REMOVED (APPROX 286 LF)

EX CONCRETE SIDEWALK TO BE REMOVED (APPROX 54 SY)

EX STOP SIGN TO BE REMOVED AND RELOCATED

CITY OF MIDLOTHIAN
R.O.W. DEED
VOL. 1235, PG. 1688
D.R.E.C.T.

END REMOVAL OF ASPHALT PAVEMENT STA: 109+99±

PROP SARDIS WATERLINE ESMT

CINDY AND RICHARD GOODMAN MASSEY ESTATES
VOL. 2825, PG. 2363
D.R.E.C.T.

PROP DRAINAGE ESMT

EX INLET TO BE REMOVED

END REMOVAL OF CONCRETE PAVEMENT STA: 10+40±

GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

LEGEND

- REMOVE CONCRETE PAVEMENT
- REMOVE ASPHALT
- REMOVE GRAVEL DRIVEWAY
- REMOVE CONCRETE SIDEWALK
- REMOVE CURB AND GUTTER
- REMOVE SIGN
- REMOVE TREE
- TREE TO REMAIN
- REMOVE FENCE
- FENCE TO REMAIN
- LIMITS OF CONSTRUCTION

NOTES:

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4. ALL TREES SHALL BE REMOVED UNLESS OTHERWISE NOTED. CONTRACTOR TO VISIT THE SITE TO REVIEW NUMBER, SPECIES AND SIZE OF TREE REMOVAL.

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER
8/21/2026

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

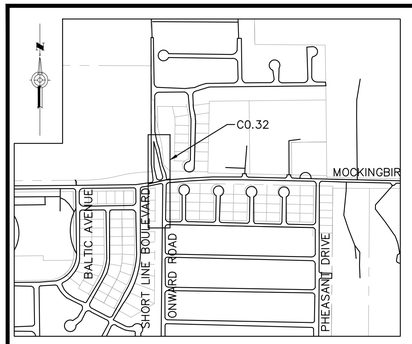
REMOVAL PLAN - STA 105+00 TO END

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

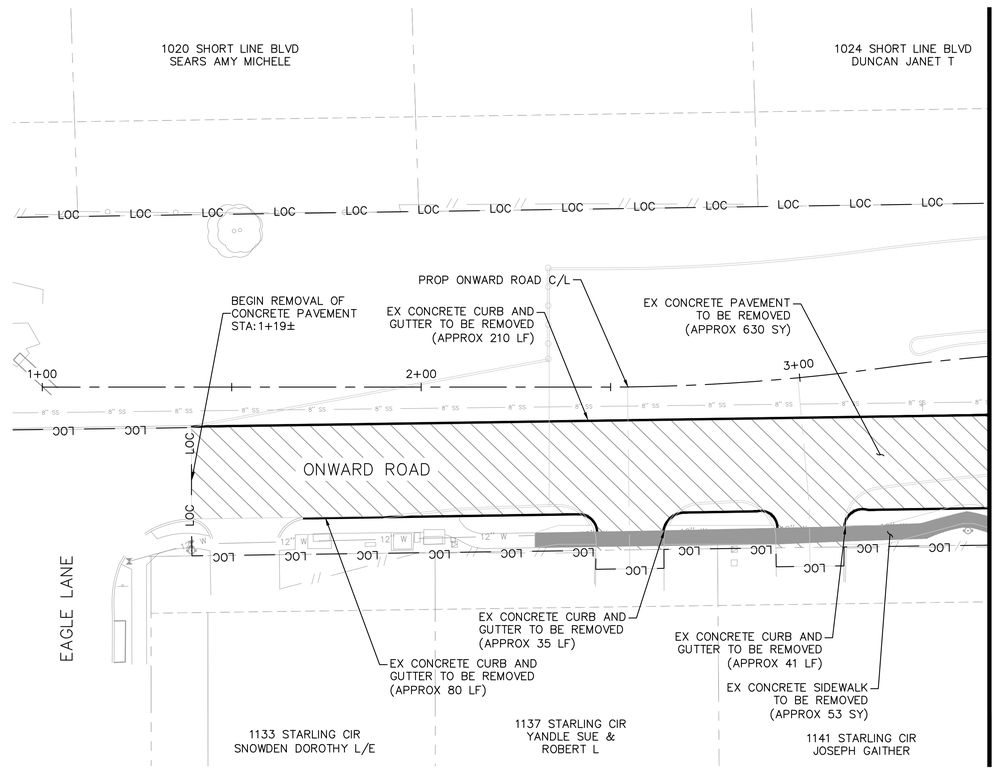
SHEET NUMBER

C0.31

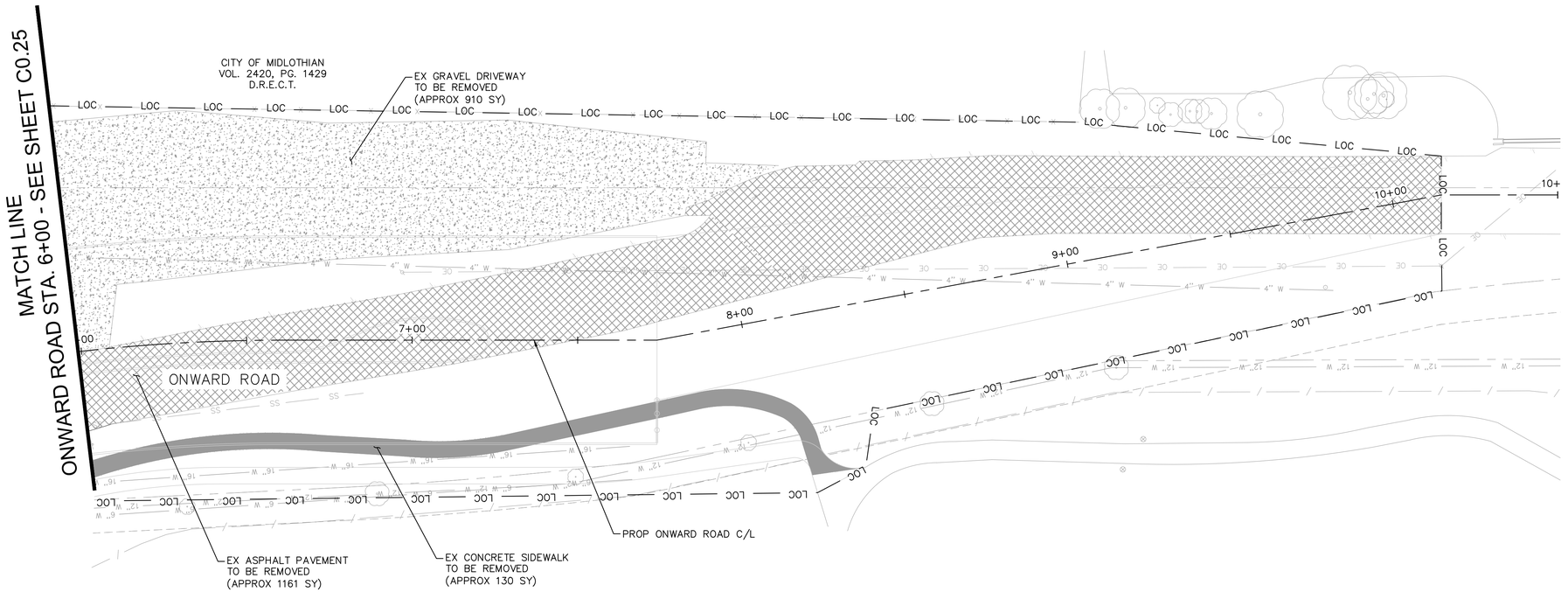
Plotted By: 2026-08-21 11:35:22, Del Rosso, Austin
Last Saved: 2026-08-21 10:40:39 (REMOVAL PLAN – STA 105+00 TO END)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\removal sta 57+00 to end.dwg

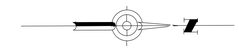


KEY MAP



MATCH LINE
ONWARD ROAD STA. 3+50 - SEE SHEET C0.25





GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

LEGEND

- REMOVE CONCRETE PAVEMENT
- REMOVE ASPHALT
- REMOVE GRAVEL DRIVEWAY
- REMOVE CONCRETE SIDEWALK
- REMOVE CURB AND GUTTER
- REMOVE SIGN
- REMOVE TREE
- TREE TO REMAIN
- REMOVE FENCE — X —
- FENCE TO REMAIN — X —
- LIMITS OF CONSTRUCTION —— LOC ——

NOTES:
1. SEE SHEET C0.33 FOR SUMMARY OF REMOVAL QUANTITIES.
2. ALL EXISTING STREET NAME SIGNS TO BE PROTECTED BY CONTRACTOR AND REUSED UNLESS OTHERWISE NOTED.
3. NOT ALL UNDERGROUND UTILITIES ARE NOTED—SEE OTHER SHEETS FOR WATER AND STORM PIPE AND APPURTENANCE REMOVALS.
4. ALL TREES SHALL BE REMOVED UNLESS OTHERWISE NOTED. CONTRACTOR TO VISIT THE SITE TO REVIEW NUMBER, SPECIES AND SIZE OF TREE REMOVAL.

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

REMOVAL PLAN - ONWARD ROAD

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C0.32

Plotted By: 2026-08-21 11:35:42, Del Rosso, Austin
Last Saved: 2026-08-21 10:40:39 (REMOVAL PLAN – ONWARD ROAD)
k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\removal sta 57+00 to end.dwg
Filename:

REMOVAL SUMMARY TABLE																	
DESCRIPTION	UNIT	REMOVALS															TOTAL
		C0.18	C0.19	C0.20	C0.21	C0.22	C0.23	C0.24	C0.25	C0.26	C0.27	C0.28	C0.29	C0.30	C0.31	C0.32	
REMOVE CONCRETE PAVEMENT	SY	1266	278	-	-	79	402	258	359	390	-	-	188	71	1768	613	5672
REMOVE ASPHALT	SY	803	1083	2126	2119	2316	2209	2302	2790	2097	2398	2101	2078	70	1013	1161	26666
REMOVE GRAVEL DRIVEWAY	SY	-	151	99	-	-	-	17	374	268	-	115	-	-	-	910	1934
REMOVE CONCRETE SIDEWALK	SY	-	15	-	-	31	89	269	174	11	-	-	-	-	54	183	826
REMOVE CURB AND GUTTER	LF	339	-	-	-	48	132	93	31	153	-	-	56	-	783	366	2001

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98384
LICENSED PROFESSIONAL ENGINEER

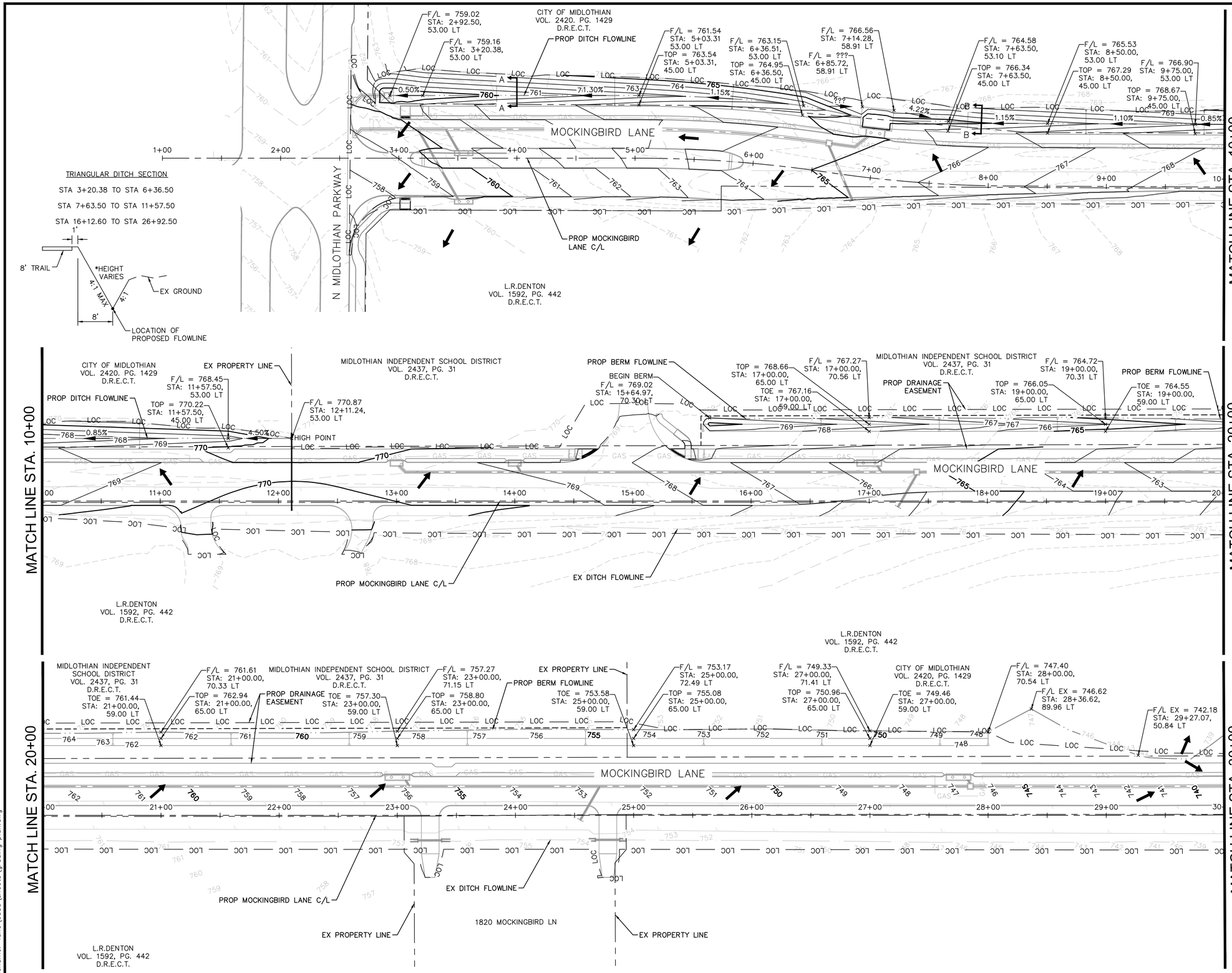
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

REMOVAL SUMMARY TABLE

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C0.33

Plotted, By: 2026-08-21 11:35:42, Del Rosso, Austin
Last Saved: 2026-08-21 10:40:39 (REMOVAL PLAN – REMOVAL SUMMARY TABLE)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\removal sta 57+00 to end.dwg



GRAPHIC SCALE

40 0 20 40 80

ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 80 FT

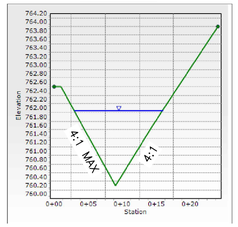
LEGEND

LIMITS OF CONSTRUCTION —— LOC ——

NOTES:

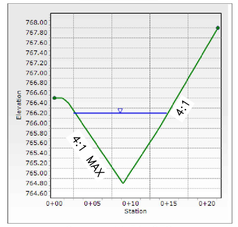
1. THE INTENT OF THESE SHEETS IS TO SHOW THE OVERALL INTENT OF THE GRADING AND ASSOCIATED SURFACE DRAINAGE FOR THE PROJECT.
2. CONTRACTOR RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE AT ALL INTERSECTIONS, RAMPS AND DITCHLINES.

SECTION A–A

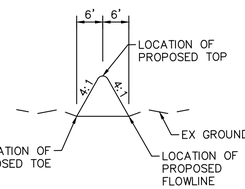


Q_{100} = 63.33 CFS
Q_{CAP} = 99.03 CFS
V_{f100} = 3.99 FPS
DEPTH = 1.83 FT
MANNINGS = 0.035

SECTION B–B



Q_{100} = 44.31 CFS
Q_{CAP} = 59.31 CFS
V_{f100} = 3.64 FPS
DEPTH = 1.50 FT
MANNINGS = 0.035



BERM TYPICAL SECTION

Kimley»Horn

No.	Revision	By	Date

801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

8/21/2026

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

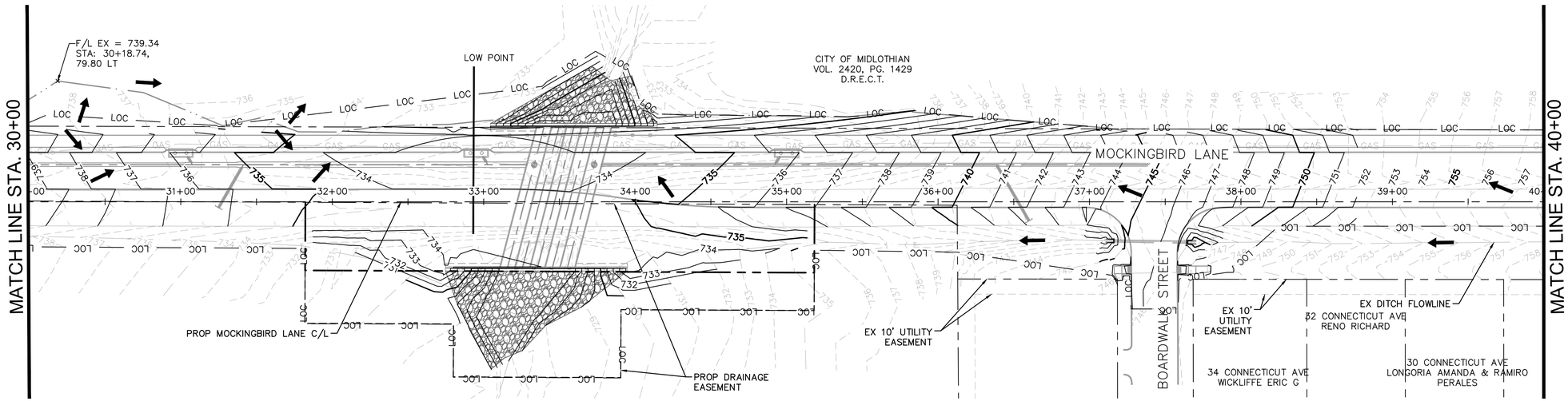
GRADING PLAN - (SHEET 1 OF 7)

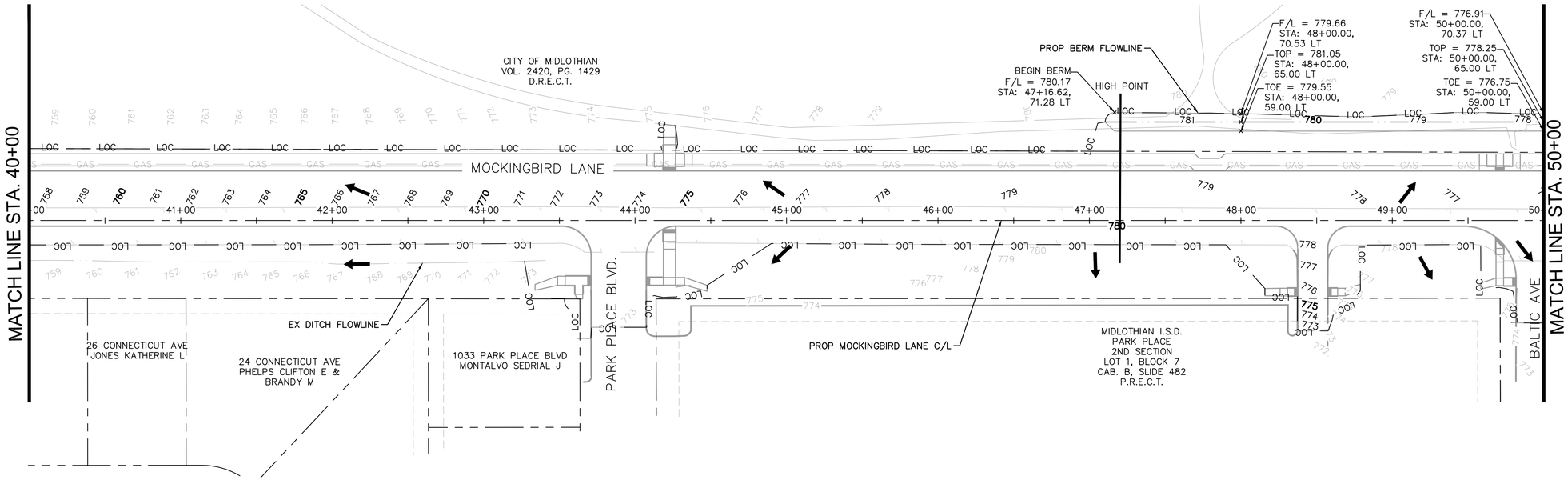
DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

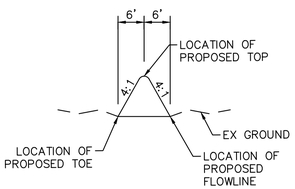
SHEET NUMBER

C1.01

Plotted By: 2026-08-21 11:22:34, Ertle, Jett
Last Saved: 2026-08-21 10:38:39 (GRADING PLAN (1 OF 7))
Filename: k:\tw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\grading plan.dwg







BERM TYPICAL SECTION

GRAPHIC SCALE

40 0 20 40 80

ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 80 FT

LEGEND

LIMITS OF CONSTRUCTION —— LOC ——

NOTES:

1. THE INTENT OF THESE SHEETS IS TO SHOW THE OVERALL INTENT OF THE GRADING AND ASSOCIATED SURFACE DRAINAGE FOR THE PROJECT.
2. CONTRACTOR RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE AT ALL INTERSECTIONS, RAMPS AND DITCHLINES.

Kimley»Horn
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No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

GRADING PLAN -
(SHEET 2 OF 7)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER

C1.02

Plotted By: 2026-08-21 11:23:03, Ertle, Jett
Last Saved: 2026-08-21 10:38:39 (GRADING PLAN (2 OF 7))
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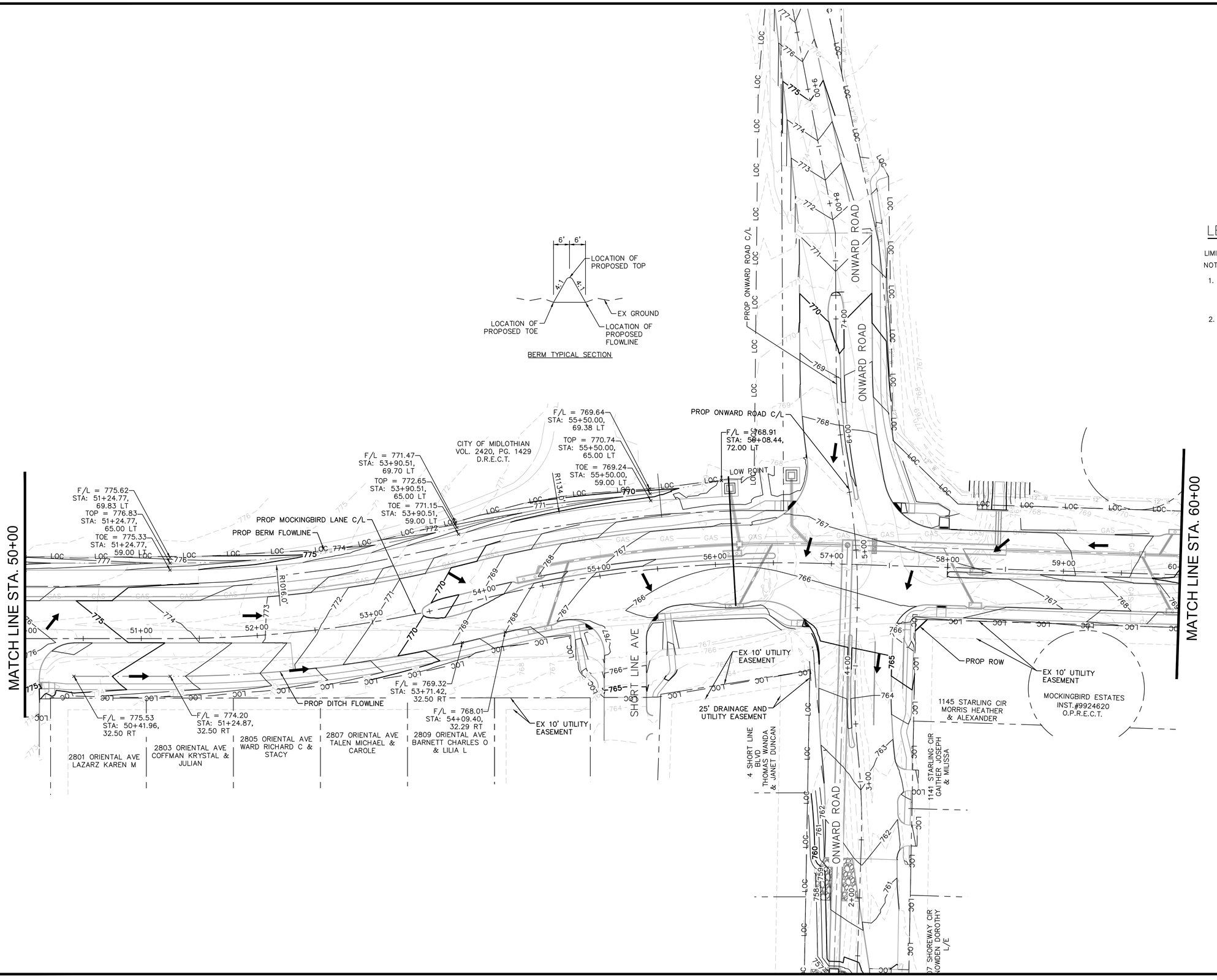

GRAPHIC SCALE

40 0 20 40 80

ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 80 FT

LEGEND

LIMITS OF CONSTRUCTION —— LOC ——

NOTES:

1. THE INTENT OF THESE SHEETS IS TO SHOW THE OVERALL INTENT OF THE GRADING AND ASSOCIATED SURFACE DRAINAGE FOR THE PROJECT.
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Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

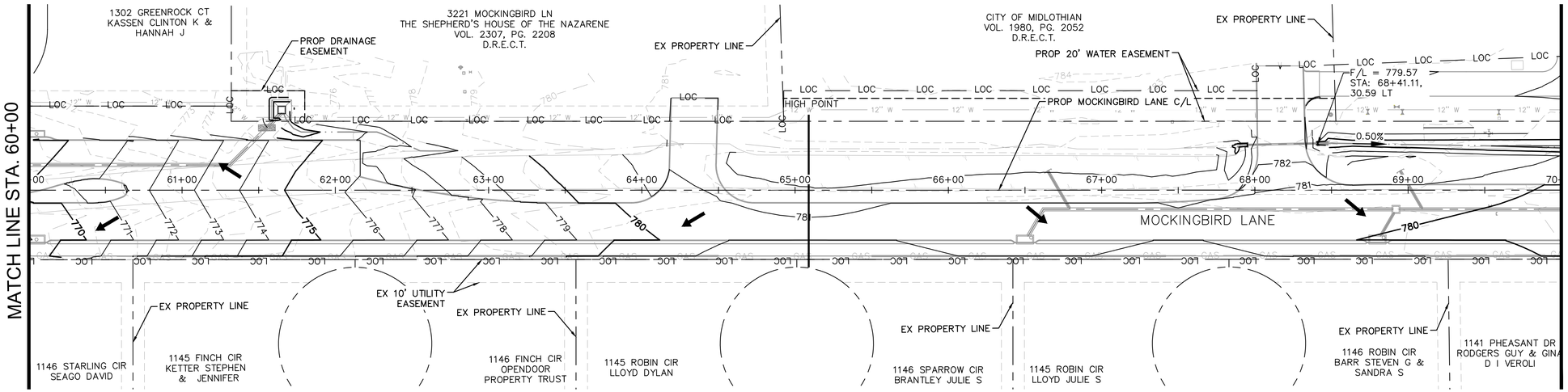
GRADING PLAN - (SHEET 3 OF 7)

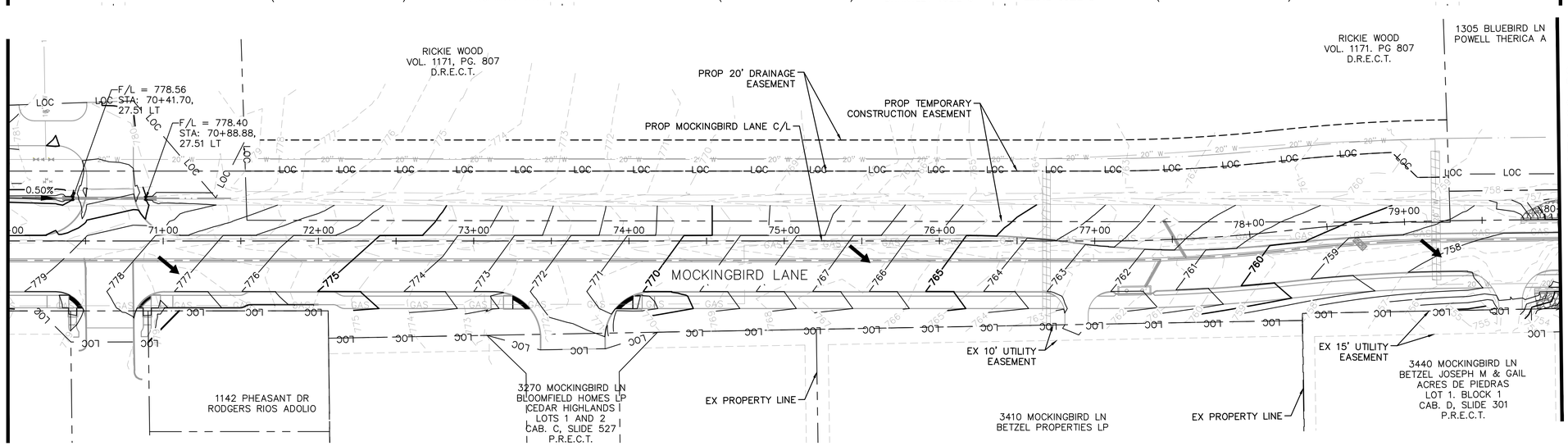
DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

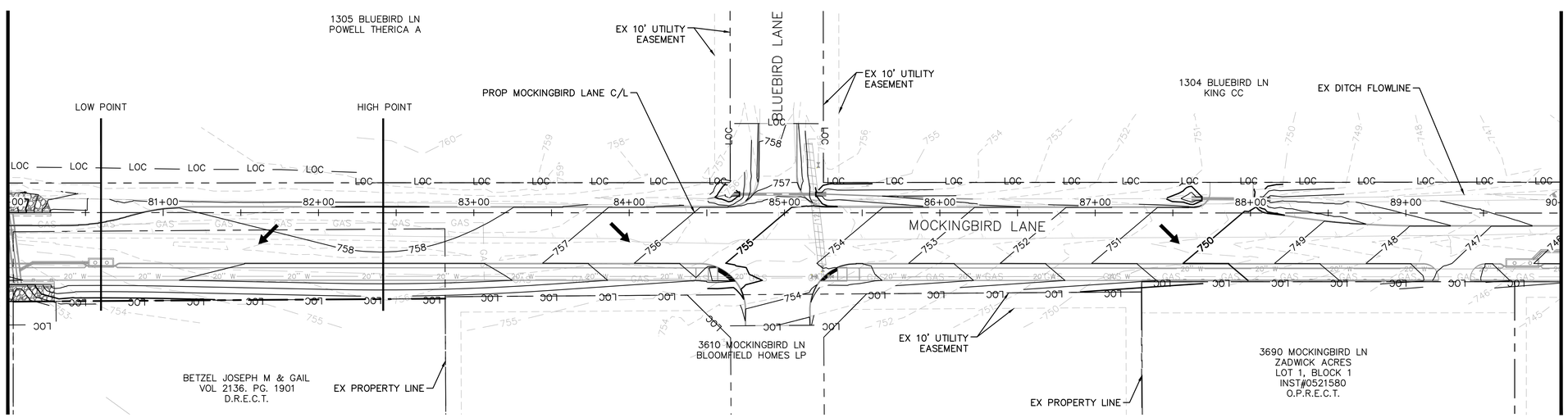
SHEET NUMBER

C1.03

Plotted, By: 2026-08-21 11:23:29, Ertle, Jett
Last Saved: 2026-08-21 10:38:39 (GRADING PLAN (3 OF 6))
k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\grading plan.dwg
Filename:







GRAPHIC SCALE

40 0 20 40 80

ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 80 FT

LEGEND

LIMITS OF CONSTRUCTION —— LOC ——

NOTES:

1. THE INTENT OF THESE SHEETS IS TO SHOW THE OVERALL INTENT OF THE GRADING AND ASSOCIATED SURFACE DRAINAGE FOR THE PROJECT.
2. CONTRACTOR RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE AT ALL INTERSECTIONS, RAMPS AND DITCHLINES.

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

STATE OF TEXAS
MISTY M. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER
8/21/2026

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

GRADING PLAN - (SHEET 4 OF 7)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER

C1.04

Plotted, By: 2026-08-21 11:24:04, Ertle, Jett
Last Saved: 2026-08-21 10:38:39 (GRADING PLAN (4 OF 7))
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\grading plan.dwg

LEGEND

LIMITS OF CONSTRUCTION — LOC —

NOTES:

1. THE INTENT OF THESE SHEETS IS TO SHOW THE OVERALL INTENT OF THE GRADING AND ASSOCIATED SURFACE DRAINAGE FOR THE PROJECT.
2. CONTRACTOR RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE AT ALL INTERSECTIONS, RAMPS AND DITCHLINES.

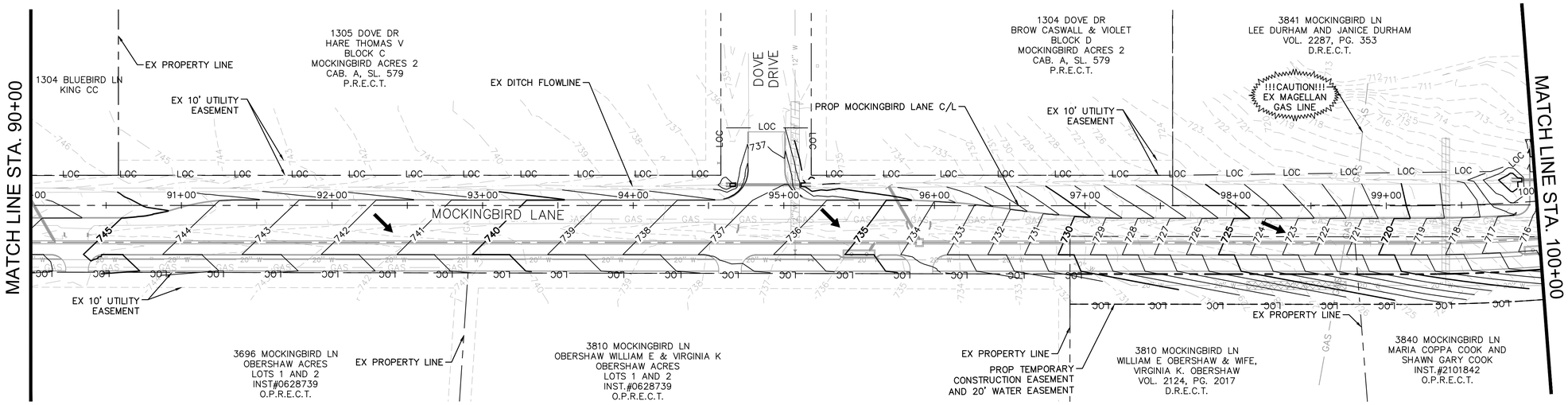
GRAPHIC SCALE

40 0 20 40 80

ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 80 FT

WARNING
HIGH PRESSURE PIPELINE(S)
EXCAVATION AND/OR CONSTRUCTION PROHIBITED WITHOUT COMPLIANCE WITH **STATE ONE-CALL**, AND WITHOUT WRITTEN PERMISSION FROM **MAGELLAN PIPELINE COMPANY, L.P.**



Kimley»Horn
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No.	Revision	By	Date

STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER
8/21/2026

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

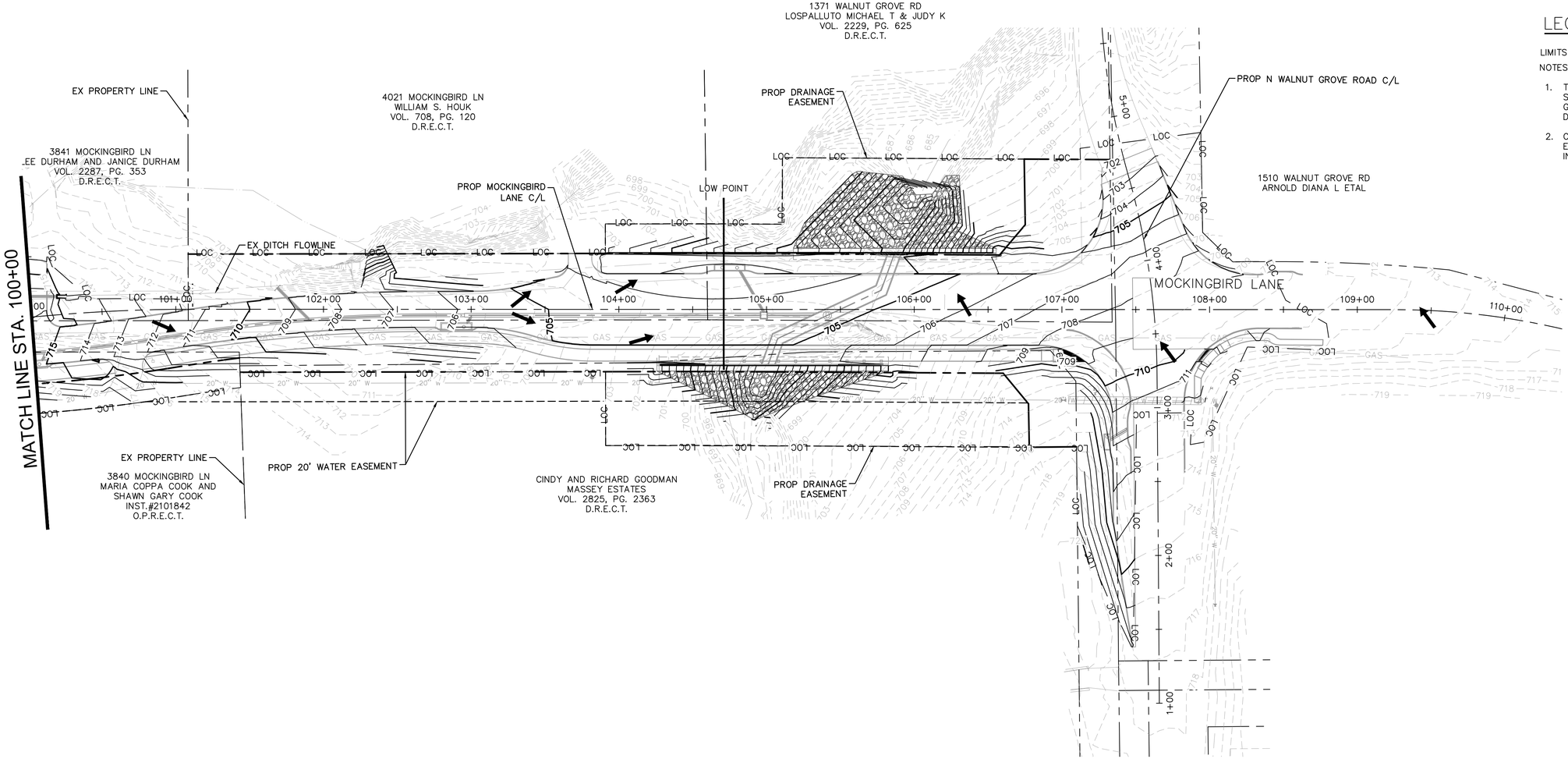
GRADING PLAN - (SHEET 5 OF 7)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER

C1.05

2026-08-21 11:24:24, Ertle, Jett
Plotted, By: 2026-08-21 10:38:39 (GRADING PLAN (5 OF 7))
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird
Filename: lane\cadd\sheets\grading plan.dwg



GRAPHIC SCALE

40 0 20 40 80

ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 80 FT

LEGEND

LIMITS OF CONSTRUCTION —— LOC ——

NOTES:

1. THE INTENT OF THESE SHEETS IS TO SHOW THE OVERALL INTENT OF THE GRADING AND ASSOCIATED SURFACE DRAINAGE FOR THE PROJECT.
2. CONTRACTOR RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE AT ALL INTERSECTIONS, RAMPS AND DITCHLINES.

Kimley»Horn
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No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

GRADING PLAN - (SHEET 6 OF 7)

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C1.06

Plotted, By: 2026-08-21 11:24:44, Ertle, Jett
Last Saved: 2026-08-21 10:38:39 (GRADING PLAN (6 OF 7))
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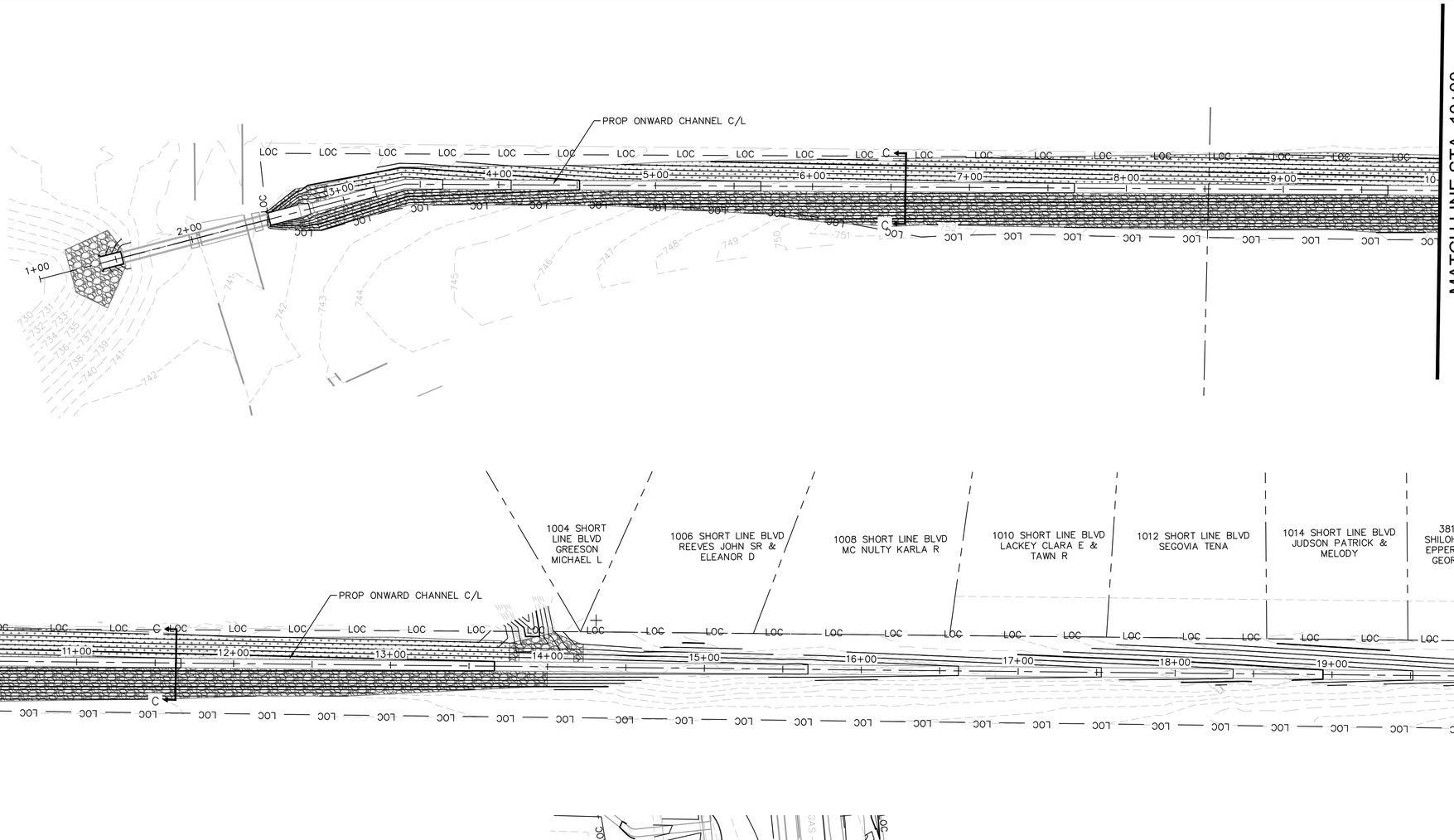


GRAPHIC SCALE

40 0 20 40 80

ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 80 FT

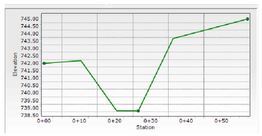
LEGEND

LIMITS OF CONSTRUCTION —— LOC ——

NOTES:

1. THE INTENT OF THESE SHEETS IS TO SHOW THE OVERALL INTENT OF THE GRADING AND ASSOCIATED SURFACE DRAINAGE FOR THE PROJECT.
2. CONTRACTOR RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE AT ALL INTERSECTIONS, RAMPS AND DITCHLINES.

SECTION C–C



Q_{100} = 200.04 CFS
Q_{CAP} = 216.32 CFS
V_{100} = 4.45 FPS
DEPTH = 2.27 FT
MANNINGS = 0.031

Kimley»Horn

801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

9/21/2026

STATE OF TEXAS — KRISTY D. CHRISTIAN — 98384 — REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

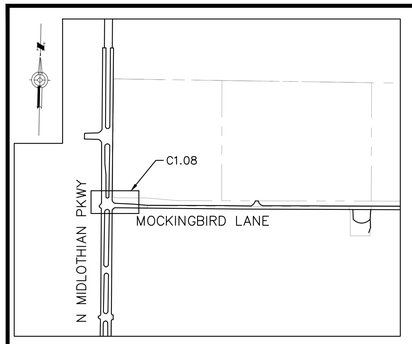
GRADING PLAN -
(SHEET 7 OF 7)

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C1.07

Plotted By: 2026-08-21 11:25:19, Ertle, Jett
Last Saved: 2026-08-21 10:38:39 (GRADING PLAN (7 OF 7))
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\grading plan.dwg



KEY MAP

GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

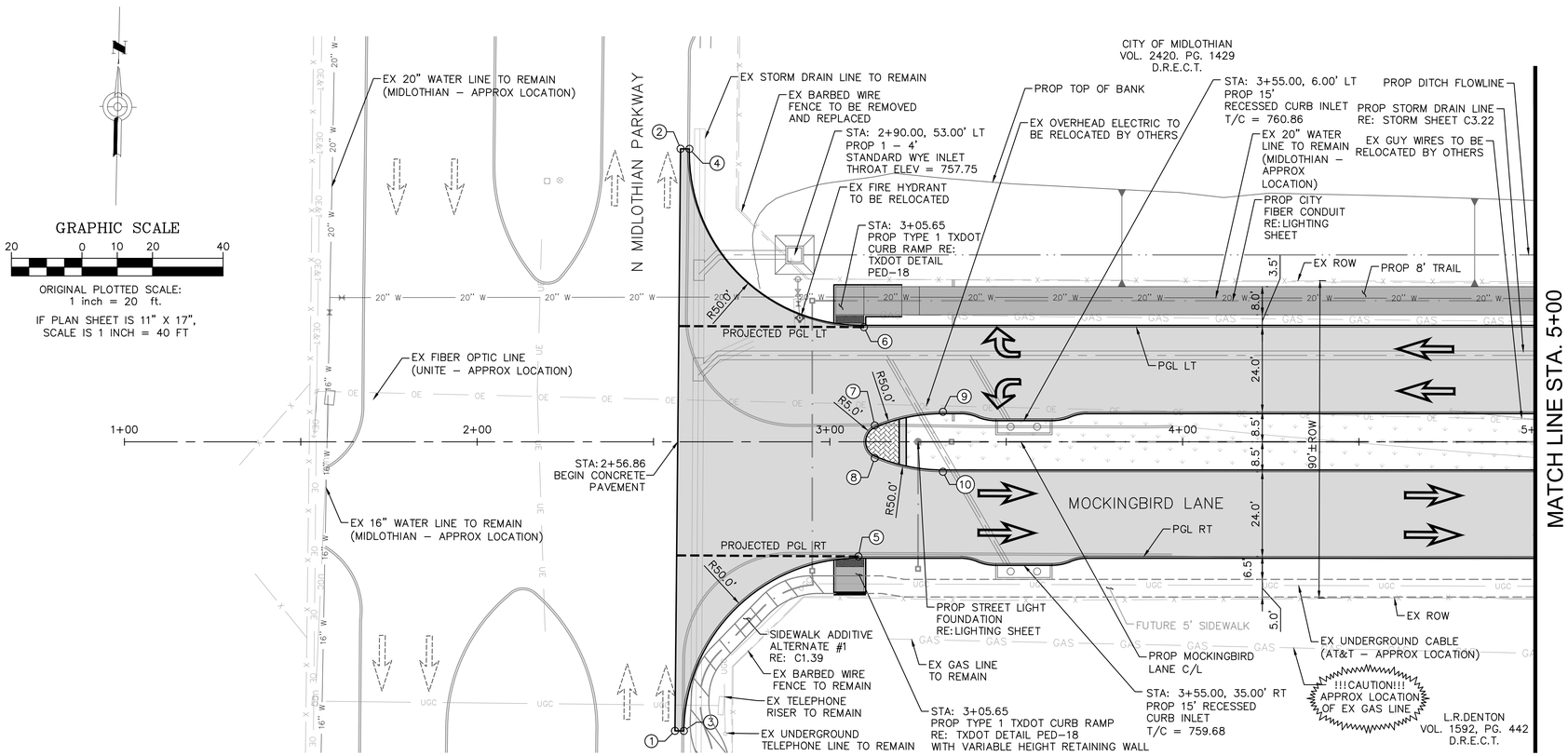
IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

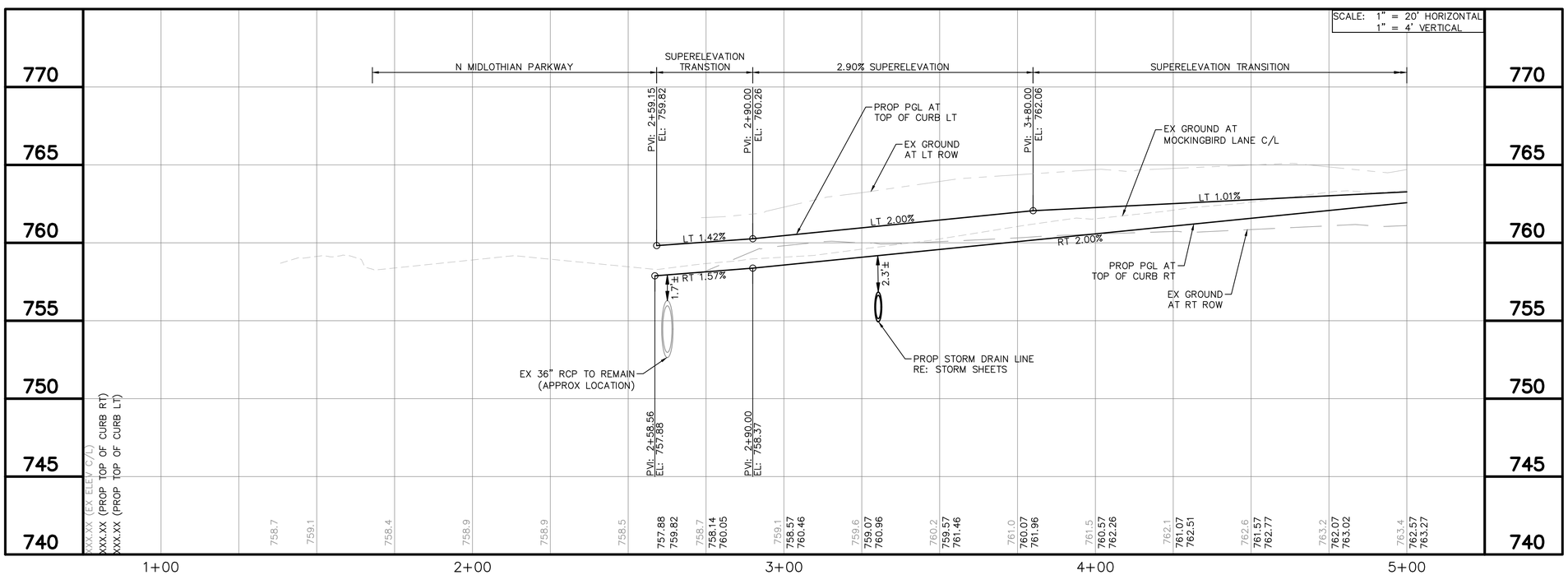
LEGEND

- PROP 8" CONCRETE PAVEMENT
- PROP CONCRETE TRAIL
- PROP STAMPED CONCRETE
- PROP SOD
- ADDITIVE ALTERNATE #1 FOR SIDEWALK RE: SHEET C1.39
- PROP LANE DIRECTION
- EX LANE DIRECTION



POINT TABLE

No.	STATION	OFFSET	DESC	ELEV
1	2+56.08	81.95' RT	TC–ME	756.7±
2	2+57.66	83.06' LT	TC–ME	761.3±
3	2+58.58	81.98' RT	TC–ME	757.4±
4	2+60.15	83.03' LT	TC–ME	761.8±
5	3+08.08	32.50' RT	TC–PT	758.74
6	3+09.65	32.50' LT	TC–PT	760.65
7	3+12.72	4.61' LT	TC–PT	759.87
8	3+12.72	4.61' RT	TC–PC	759.76
9	3+32.05	8.50' LT	TC–PT	760.40
10	3+32.05	8.50' RT	TC–PT	759.91



Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

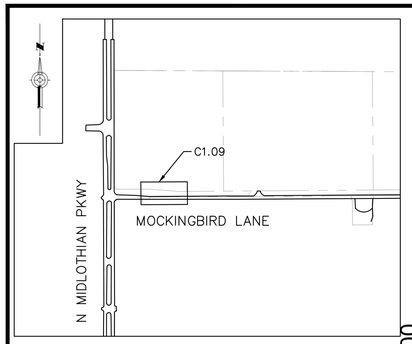
PAVING PLAN AND PROFILE - BEGIN TO STA 5+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

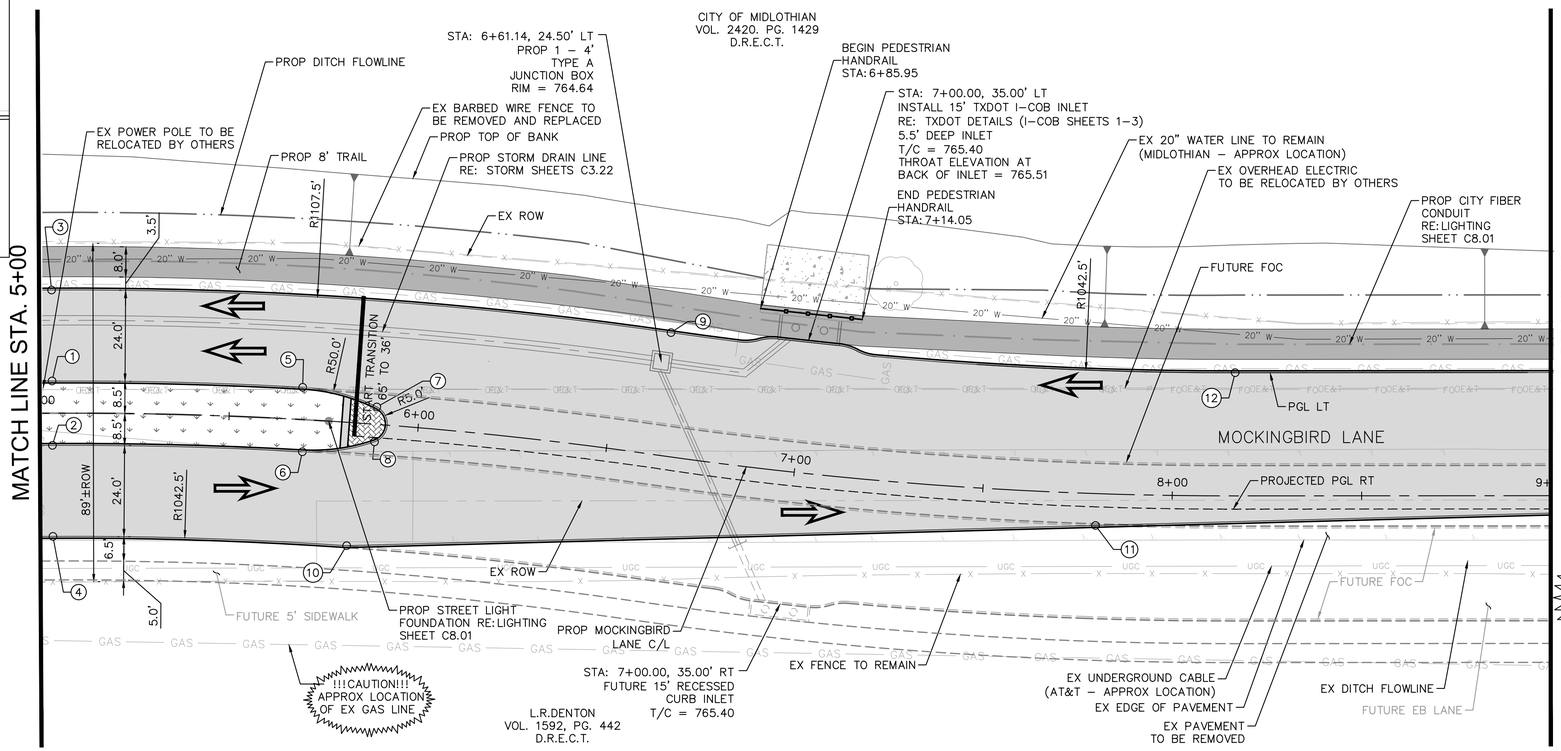
C1.08

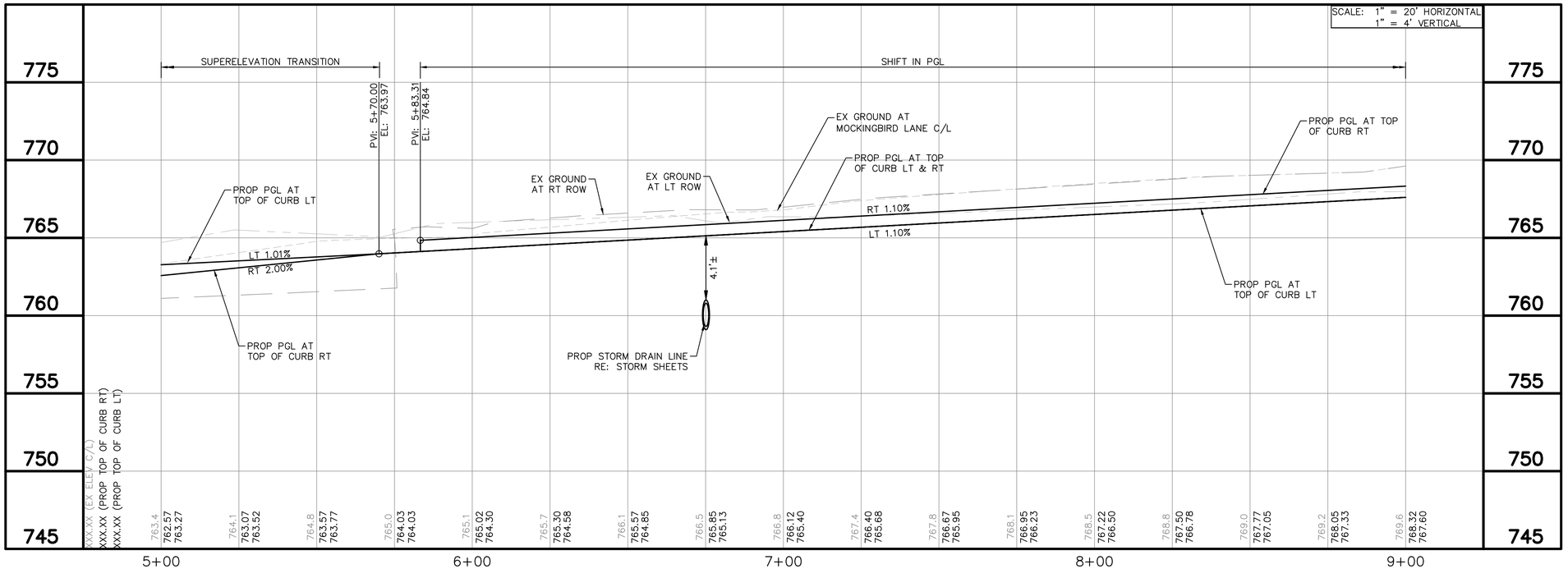
Plotted, By: 2026-08-21 11:28:34, Ertle, Jett
Last Saved: 2026-08-21 10:29:44 (BEGIN TO STA 5+00)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\paving p&p begin to sta 25+00.dwg

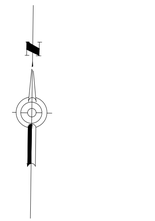


KEY MAP

POINT TABLE				
No.	STATION	OFFSET	DESC	ELEV
1	5+03.31	8.50' LT	TC–PC	763.87
2	5+03.31	8.50' RT	TC–PC	763.70
3	5+03.31	32.50' LT	TC–PC	763.30
4	5+03.31	32.50' RT	TC–PC	762.64
5	5+68.97	8.50' LT	TC–PRC	764.94
6	5+69.84	8.50' RT	TC–PRC	764.95
7	5+88.71	4.58' LT	TC–PC	765.24
8	5+88.78	4.64' RT	TC–PT	765.23
9	6+62.54	32.50' LT	TC–PCC	764.99
10	5+83.31	32.50' RT	TC–PI	764.12
11	7+80.00	8.40' RT	TC–PI	766.77
12	8+16.64	32.50' LT	TC–PT	766.69







ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

LEGEND

PROP 8" CONCRETE PAVEMENT

PROP CONCRETE TRAIL

PROP LANE DIRECTION

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

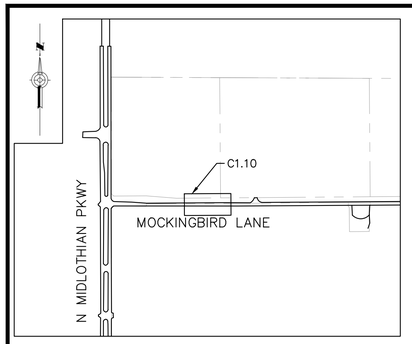
PAVING PLAN AND PROFILE - STA 5+00 TO STA 9+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C1.09

Plotted By: 2026-08-21 11:30:41, Ertle, Jett
Last Saved: 2026-08-21 10:29:44 (STA 5+00 TO STA 9+00)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\paving p&p begin to sta 25+00.dwg

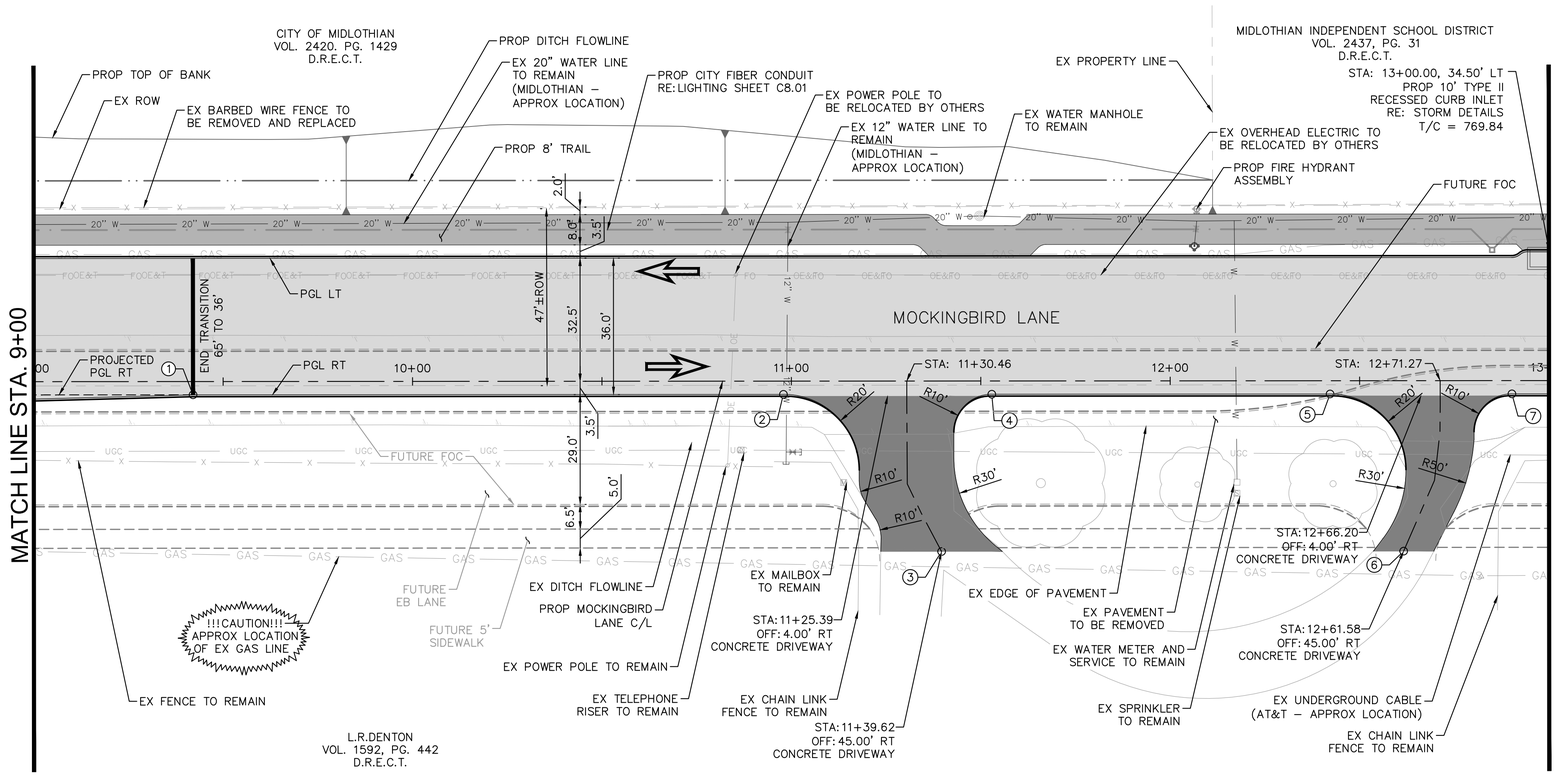


KEY MAP

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

POINT TABLE				
No.	STATION	OFFSET	DESC	ELEV
1	9+42.05	3.50' RT	TP–PT	768.79
2	10+97.89	3.50' RT	TC–PC	770.19
3	11+39.62	45.00' RT	TP–ME	769.8±
4	11+52.89	3.50' RT	TC–PT	770.66
5	12+42.20	3.50' RT	TC–PC	770.85
6	12+61.58	45.00' RT	TP–ME	769.3±
7	12+90.20	3.50' RT	TC–PT	770.61



GRAPHIC SCALE

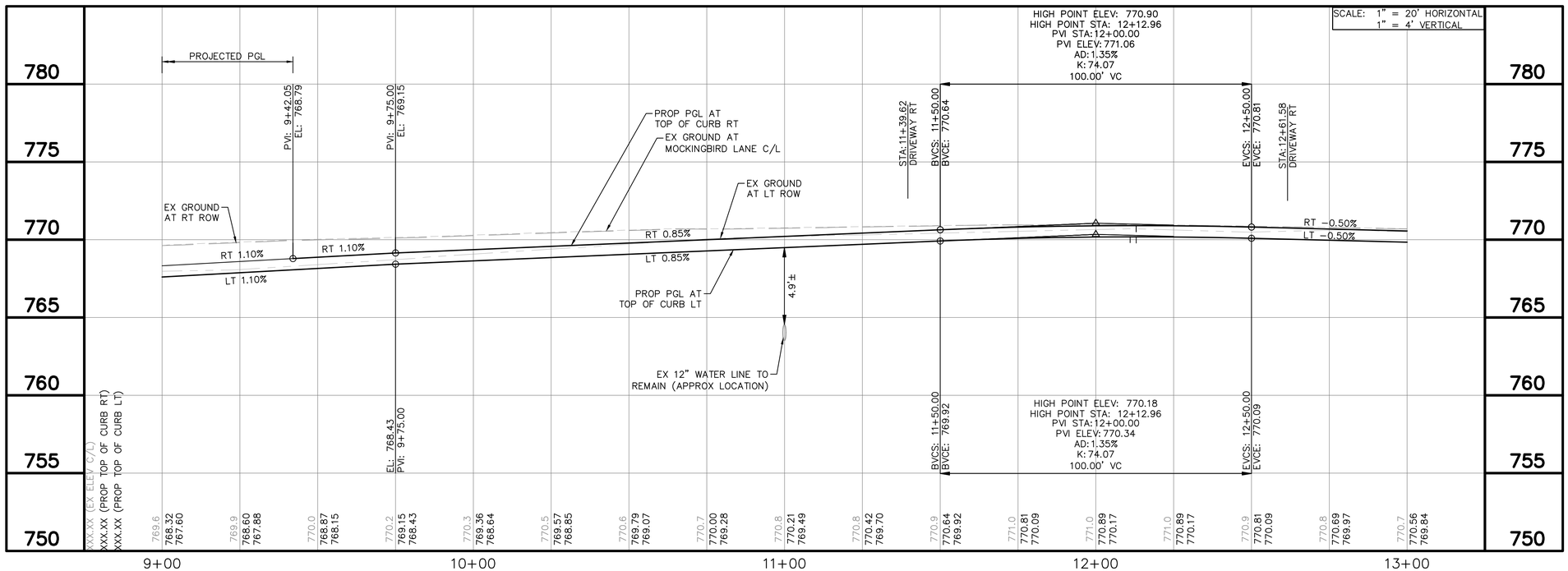
20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

LEGEND

- PROP 8" CONCRETE PAVEMENT
- PROP CONCRETE TRAIL
- PROP CONCRETE DRIVEWAY
- PROP LANE DIRECTION



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No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
96384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

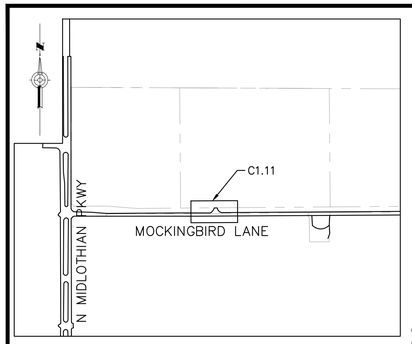
PAVING PLAN AND PROFILE - STA 9+00 TO STA 13+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C1.10

Plotted By: 2026-08-21 11:32:53, Ertle, Jett
Last Saved: 2026-08-21 10:29:44 (STA 9+00 TO STA 13+00)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\paving p&p begin to sta 25+00.dwg

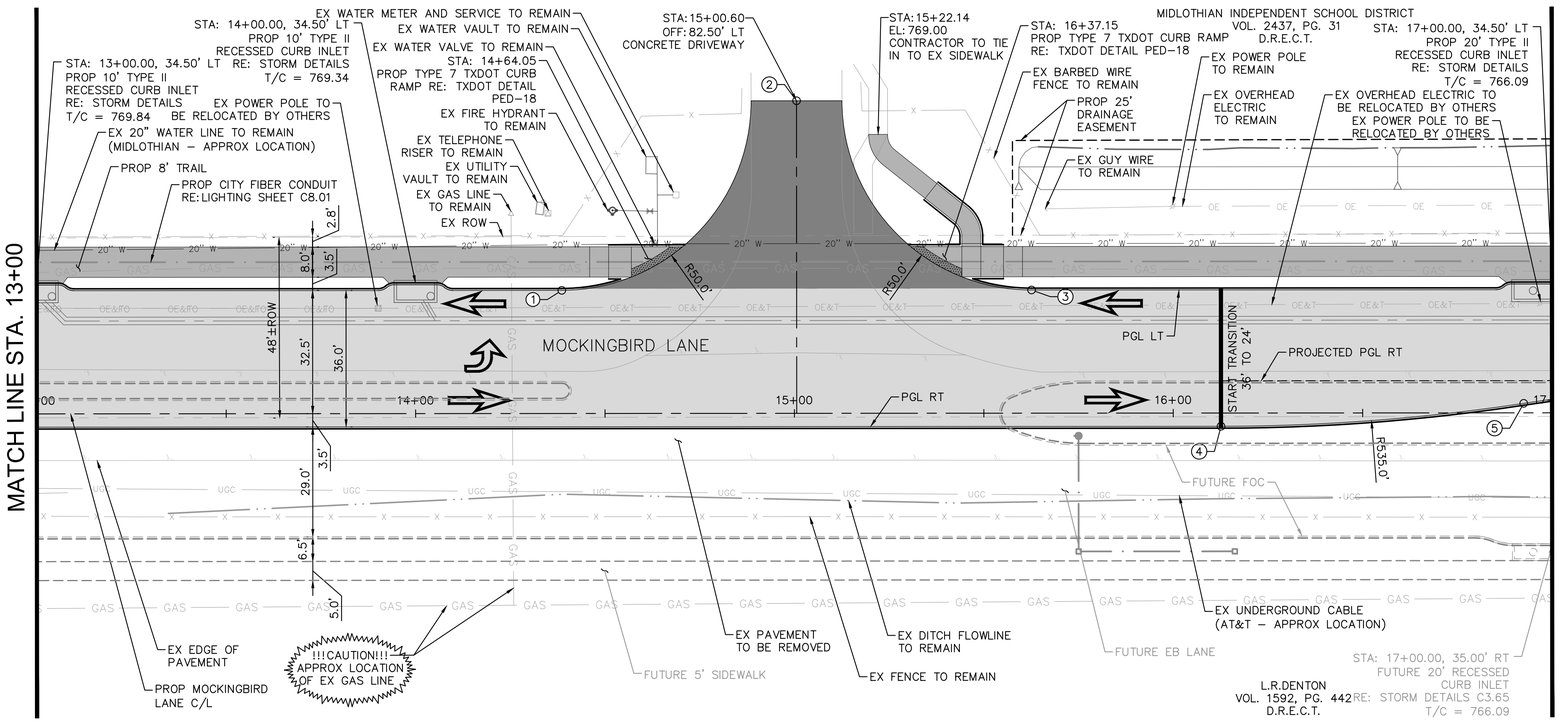


KEY MAP

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

POINT TABLE				
No.	STATION	OFFSET	DESC	ELEV
1	14+38.60	32.50' LT	TC–PC	769.15
2	15+00.60	82.50' LT	TP–ME	770.0±
3	15+62.60	32.50' LT	TC–PT	767.74
4	16+12.60	3.50' RT	TC–PC	767.86
5	16+92.50	2.50' LT	TC–PCC	766.78



GRAPHIC SCALE

20 0 10 20 40

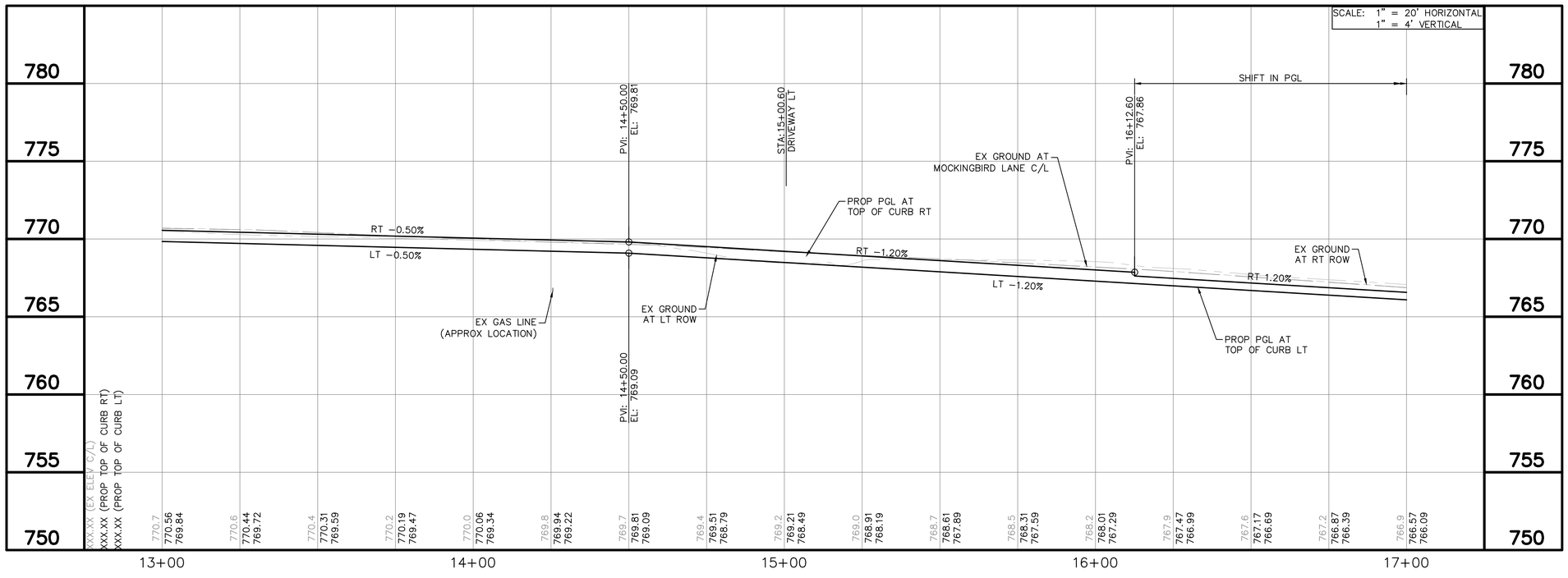
ORIGINAL PLOTTED SCALE: 1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 40 FT

LEGEND

- PROP 8" CONCRETE PAVEMENT
- PROP CONCRETE TRAIL
- PROP CONCRETE DRIVEWAY
- PROP LANE DIRECTION

NOTE:
1. AREA BETWEEN BACK OF INLET AND TRAIL SHALL BE CONCRETE.



Kimley»Horn
807 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026

MISTY D. CHRISTIAN 98384 LICENSED PROFESSIONAL ENGINEER STATE OF TEXAS

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

PAVING PLAN AND PROFILE - STA 13+00 TO STA 17+00

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER

C1.11

Plotted By: 2026-08-21 11:35:01, Ertle, Jett
Last Saved: 2026-08-21 10:29:44 (STA 13+00 TO STA 17+00)
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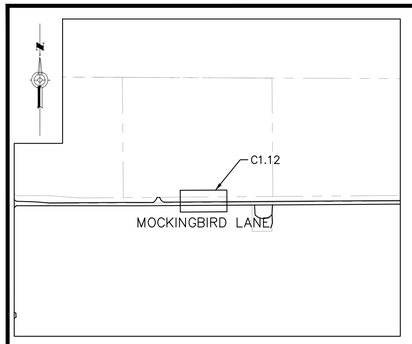
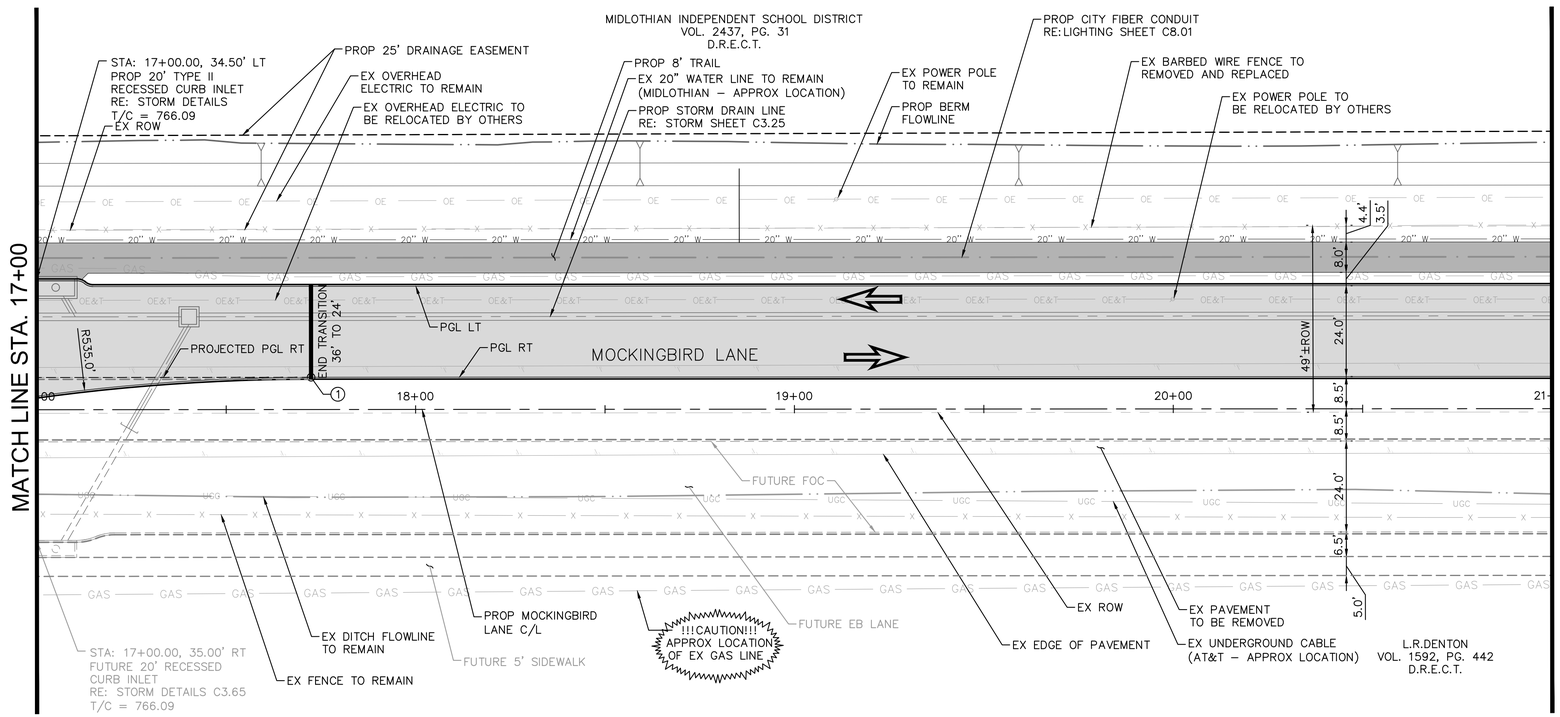


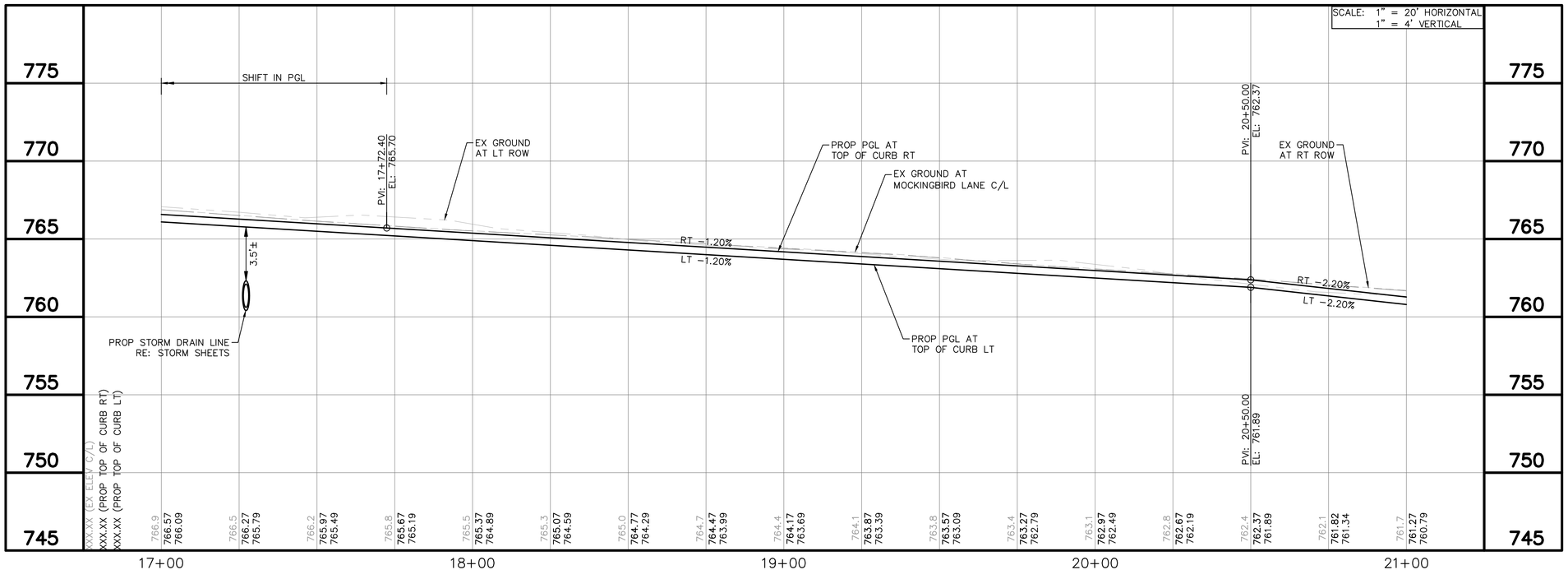
KEY MAP

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

POINT TABLE				
No.	STATION	OFFSET	DESC	ELEV
1	17+72.40	8.50' LT	TC–PT	765.70





GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

LEGEND

- PROP 8" CONCRETE PAVEMENT
- PROP CONCRETE TRAIL
- PROP CONCRETE DRIVEWAY
- PROP LANE DIRECTION

NOTE:
1. AREA BETWEEN BACK OF INLET AND TRAIL SHALL BE CONCRETE.

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER
8/21/2026

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

PAVING PLAN AND
PROFILE - STA
17+00 TO STA 21+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C1.12

Plotted, By: 2026-08-21 11:37:11, Ertle, Jett
Last Saved: 2026-08-21 10:29:44 (STA 17+00 TO STA 21+00)
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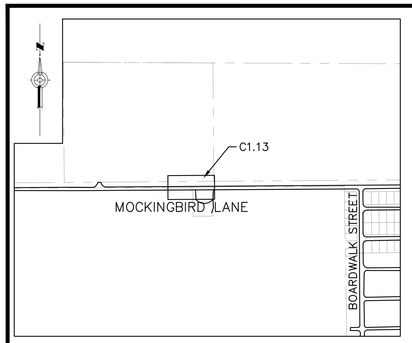


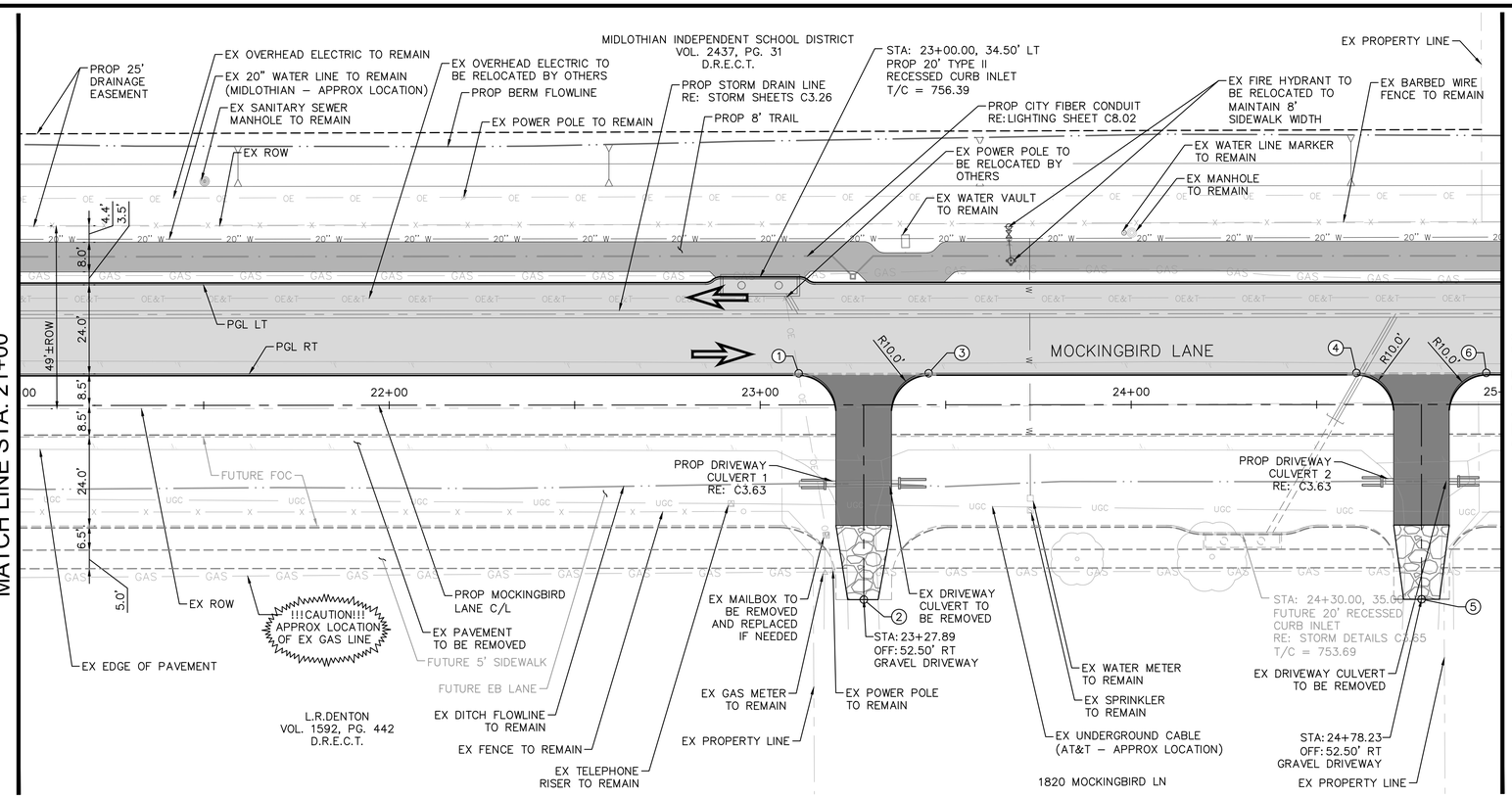
KEY MAP

CAUTION!!

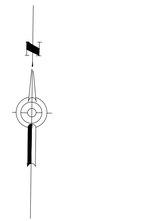
EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

POINT TABLE				
No.	STATION	OFFSET	DESC	ELEV
1	23+10.39	8.50' LT	TC–PC	756.64
2	23+27.89	52.50' RT	TP–ME	756.3±
3	23+45.39	8.50' LT	TC–PT	755.87
4	24+60.73	8.50' LT	TC–PC	753.62
5	24+78.23	52.50' RT	TP–ME	753.8±
6	24+95.73	8.50' LT	TC–PT	752.99

MATCH LINE STA. 21+00



MATCH LINE STA. 25+00



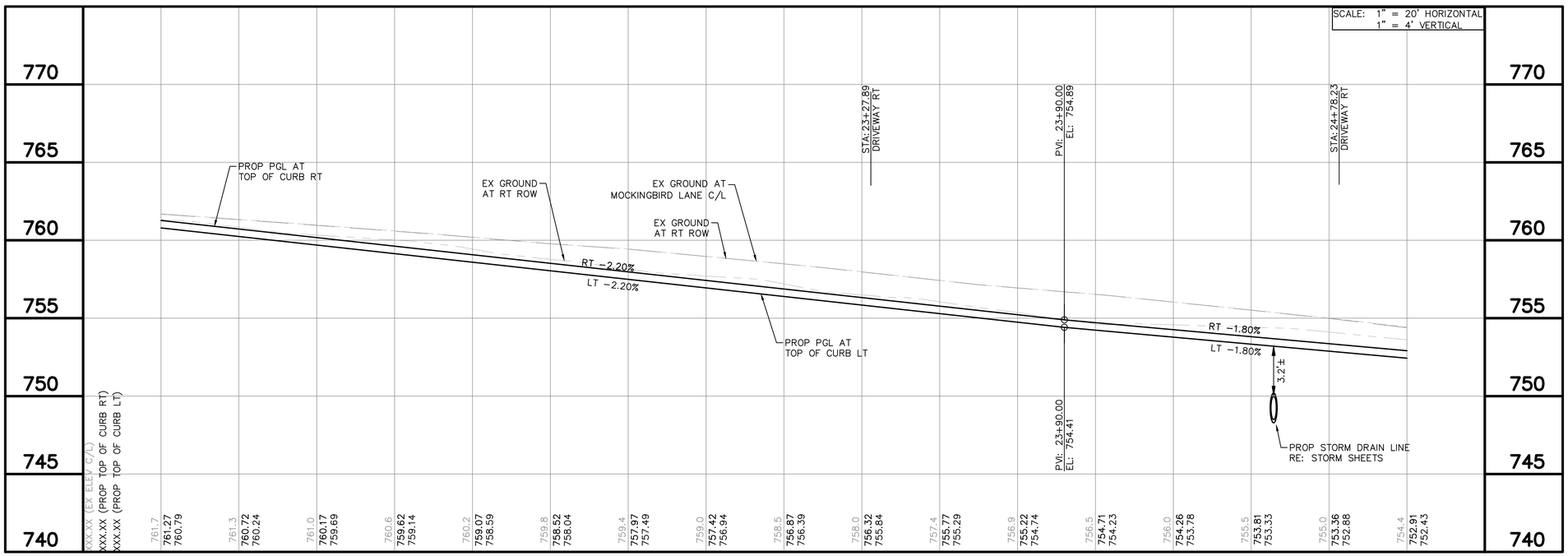
ORIGINAL PLOTTED SCALE: 1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 40 FT

LEGEND

- PROP 8" CONCRETE PAVEMENT
- PROP CONCRETE TRAIL
- PROP CONCRETE DRIVEWAY
- PROP GRAVEL DRIVEWAY
- PROP LANE DIRECTION

NOTE:
1. AREA BETWEEN BACK OF INLET AND TRAIL SHALL BE CONCRETE.



Kimley»Horn
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No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

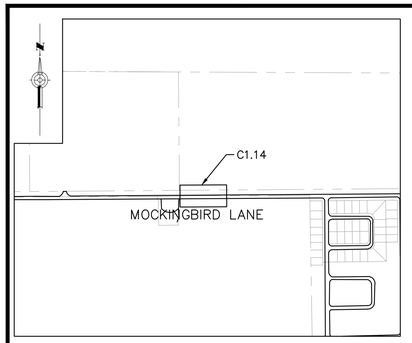
PAVING PLAN AND PROFILE - STA 21+00 TO STA 25+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C1.13

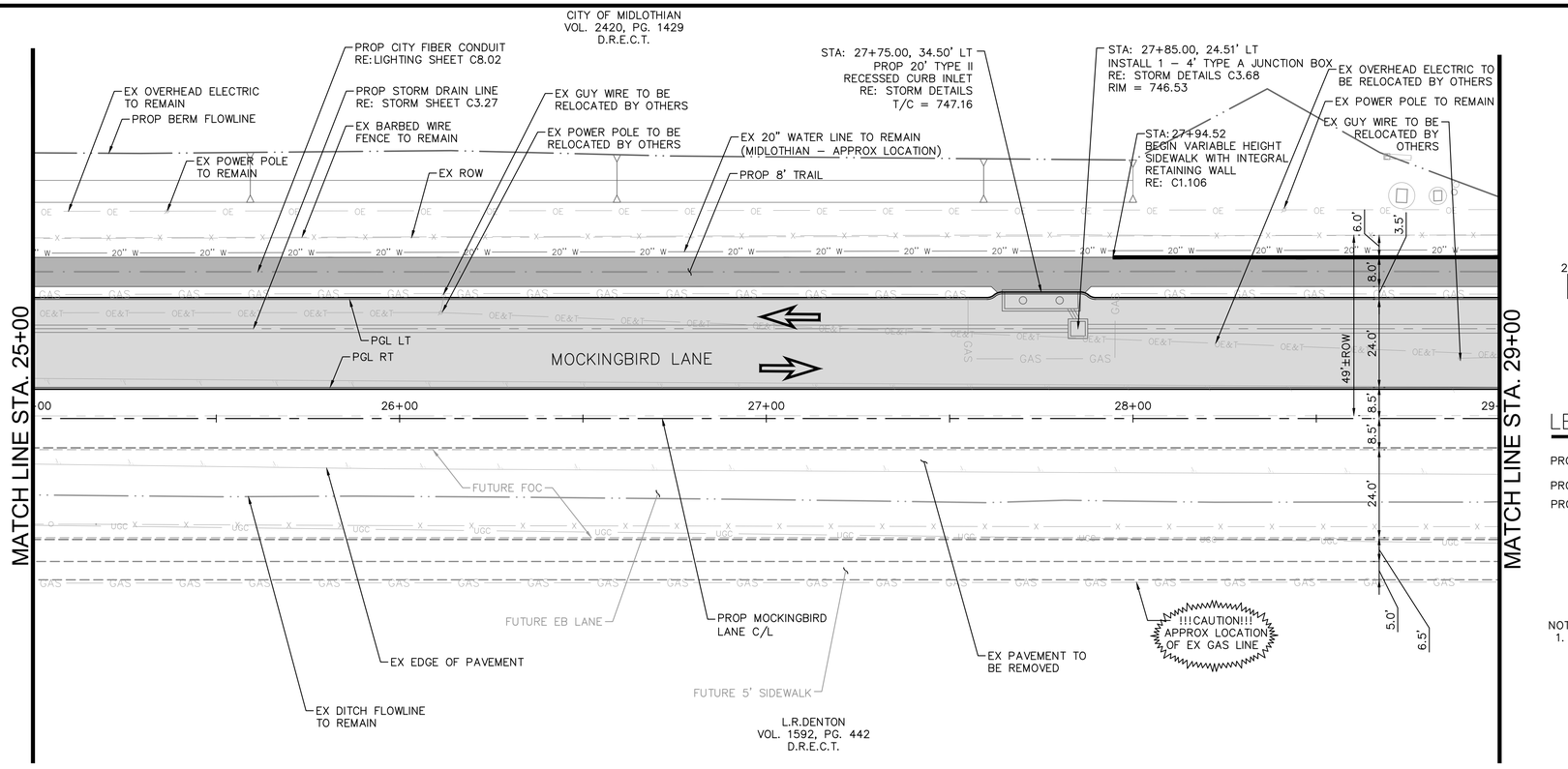
Plotted By: Ertle, Jett 2026-08-21 11:39:22
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird 2026-08-21 10:29:44 (STA 21+00 TO STA 25+00)
Filename: lane\cadd\sheets\paving p&p begin to sta 25+00.dwg

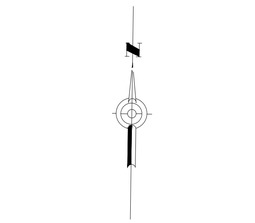


KEY MAP

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.





ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

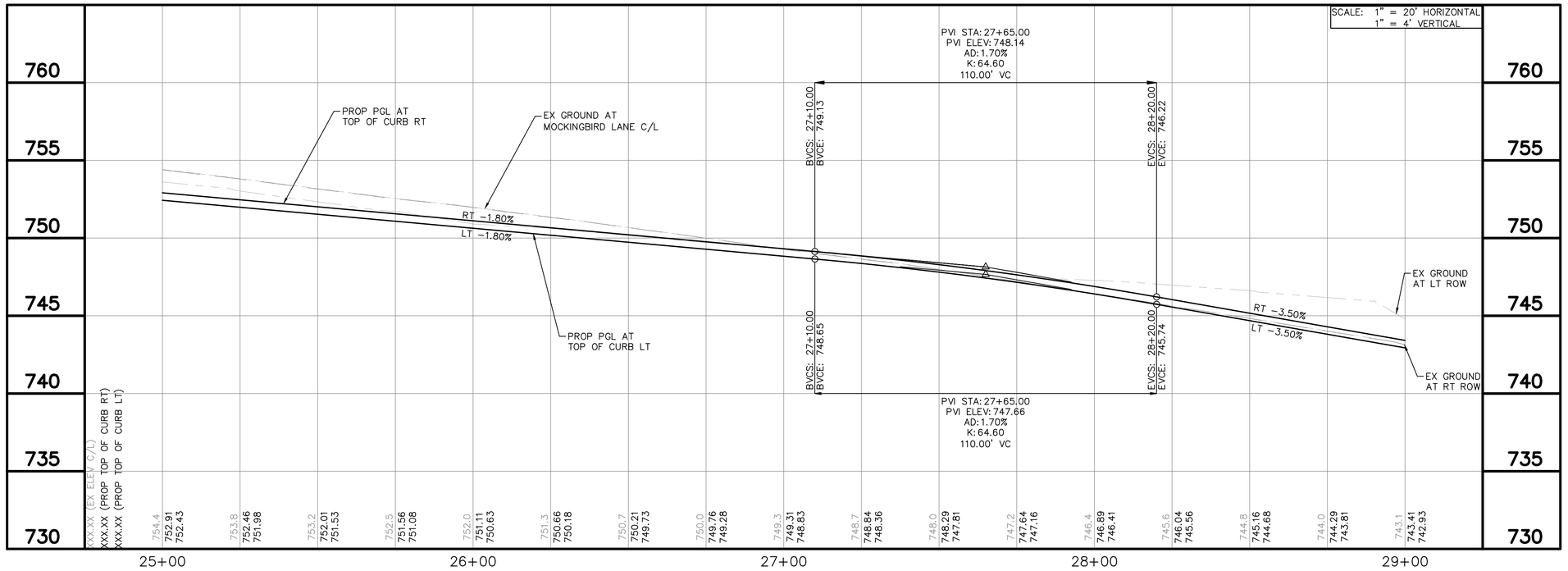
LEGEND

PROP 8" CONCRETE PAVEMENT

PROP CONCRETE TRAIL

PROP LANE DIRECTION

NOTE:
1. AREA BETWEEN BACK OF INLET AND TRAIL SHALL BE CONCRETE.



Kimley»Horn

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No.	Revision	By	Date

8/21/2026

STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

PAVING PLAN AND PROFILE - STA 25+00 TO STA 29+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C1.14

Plotted By: 2026-08-21 11:43:43, Ertle, Jett
Last Saved: 2026-08-20 19:13:52 (STA 25+00 TO STA 29+00)
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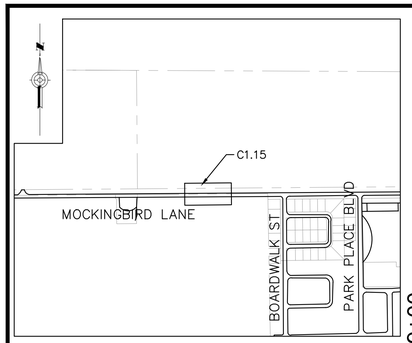
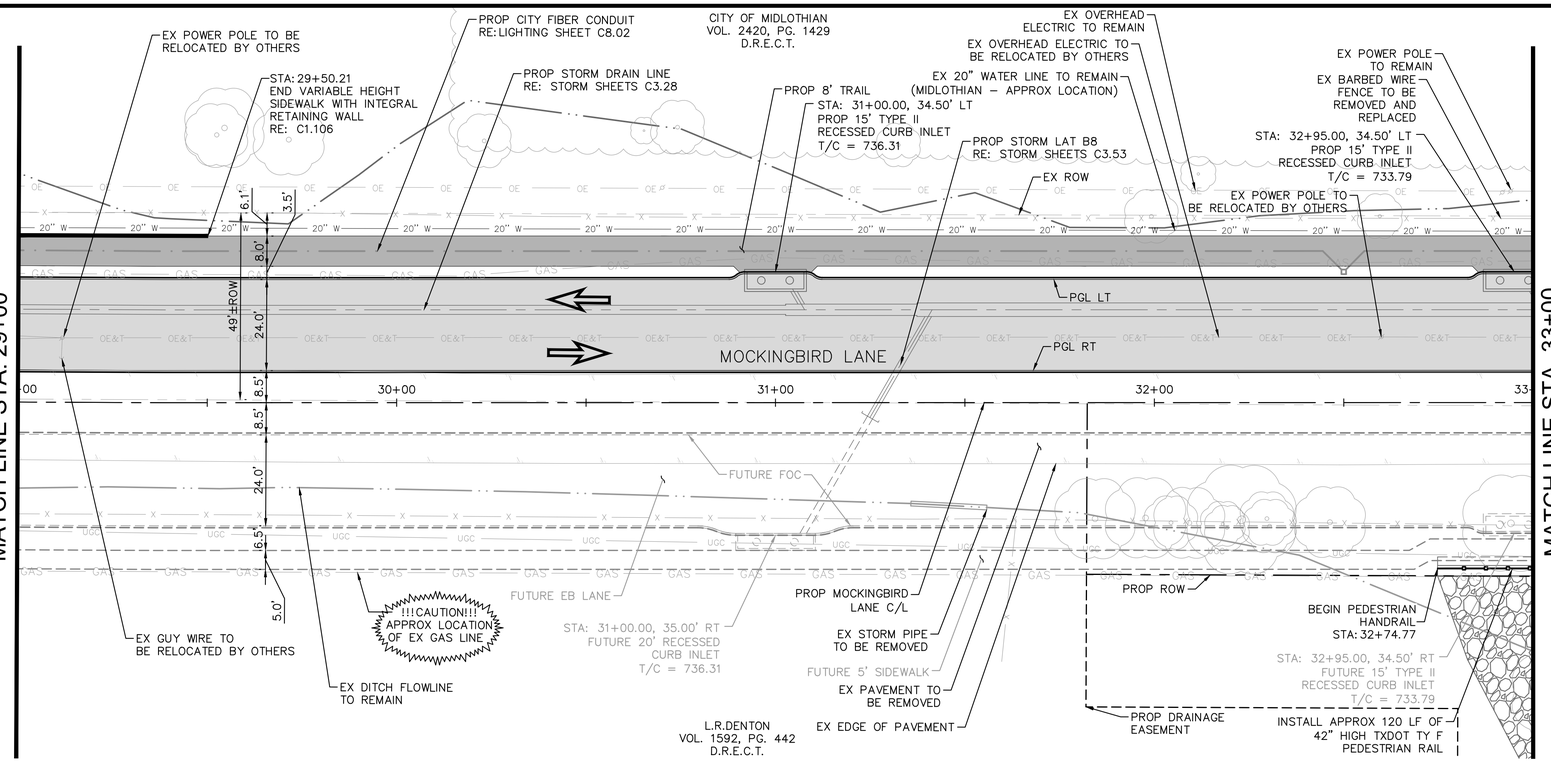
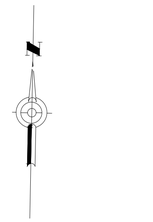


KEY MAP

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.





GRAPHIC SCALE

20 0 10 20 40

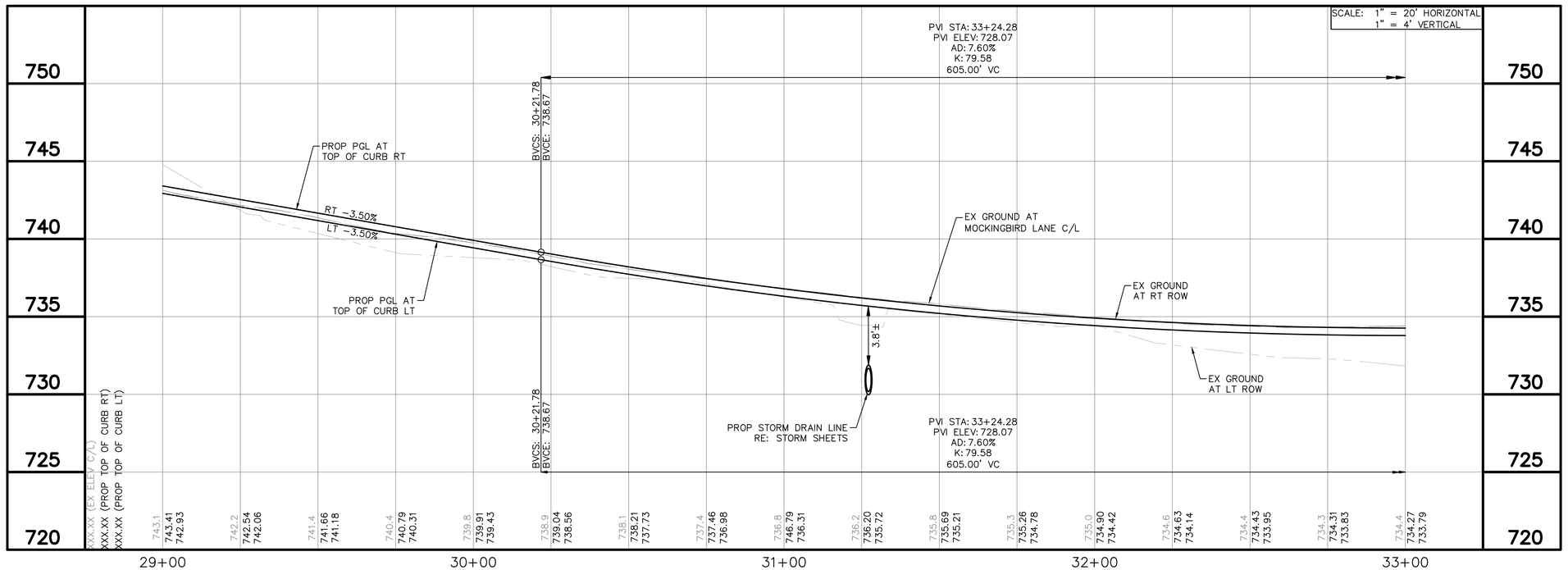
ORIGINAL PLOTTED SCALE: 1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 40 FT

LEGEND

- PROP 8" CONCRETE PAVEMENT
- PROP CONCRETE TRAIL
- PROP CONCRETE DRIVEWAY
- PROP LANE DIRECTION

NOTE:
1. AREA BETWEEN BACK OF INLET AND TRAIL SHALL BE CONCRETE.



Kimley»Horn

801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026

MISTY D. CHRISTIAN 98384 LICENSED PROFESSIONAL ENGINEER STATE OF TEXAS

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

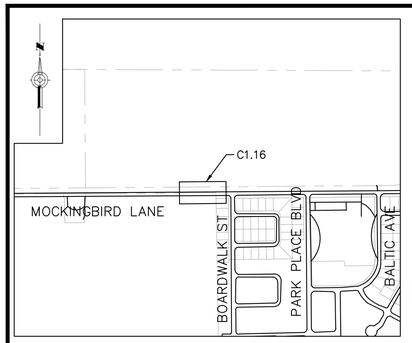
PAVING PLAN AND PROFILE - STA 29+00 TO STA 33+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C1.15

Plotted By: 2026-08-21 11:46:11, Ertle, Jett
Last Saved: 2026-08-20 19:13:52 (STA 29+00 TO STA 33+00)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\paving p&p sta 25+00 to sta 49+00.dwg

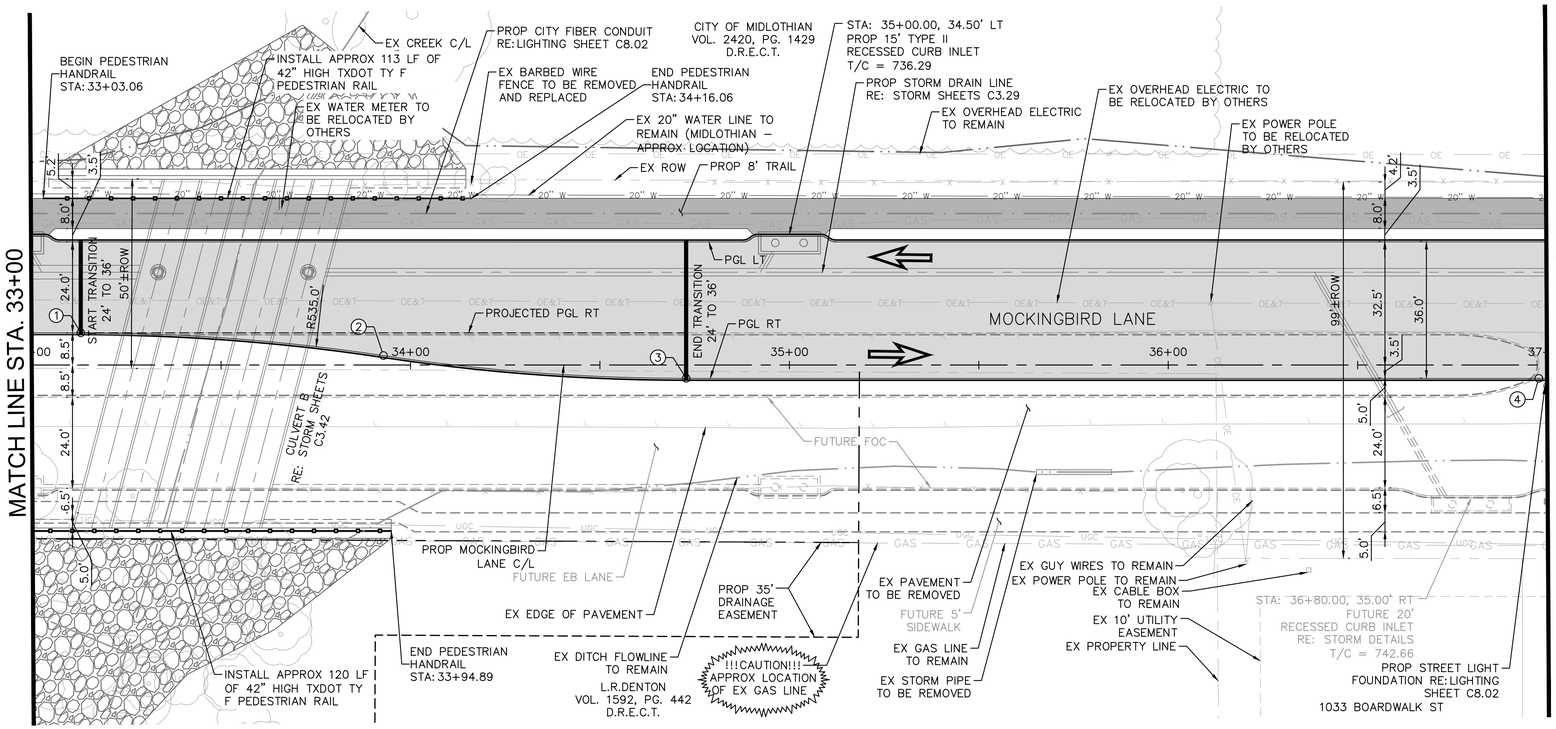


KEY MAP

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

POINT TABLE				
No.	STATION	OFFSET	DESC	ELEV
1	33+12.94	8.50' LT	TC–PC	734.28
2	33+92.84	2.50' LT	TC–PRC	734.92
3	34+72.74	3.50' RT	TC–PT	736.37
4	36+97.82	3.50' RT	TC–PC	744.11



GRAPHIC SCALE

20 0 10 20 40

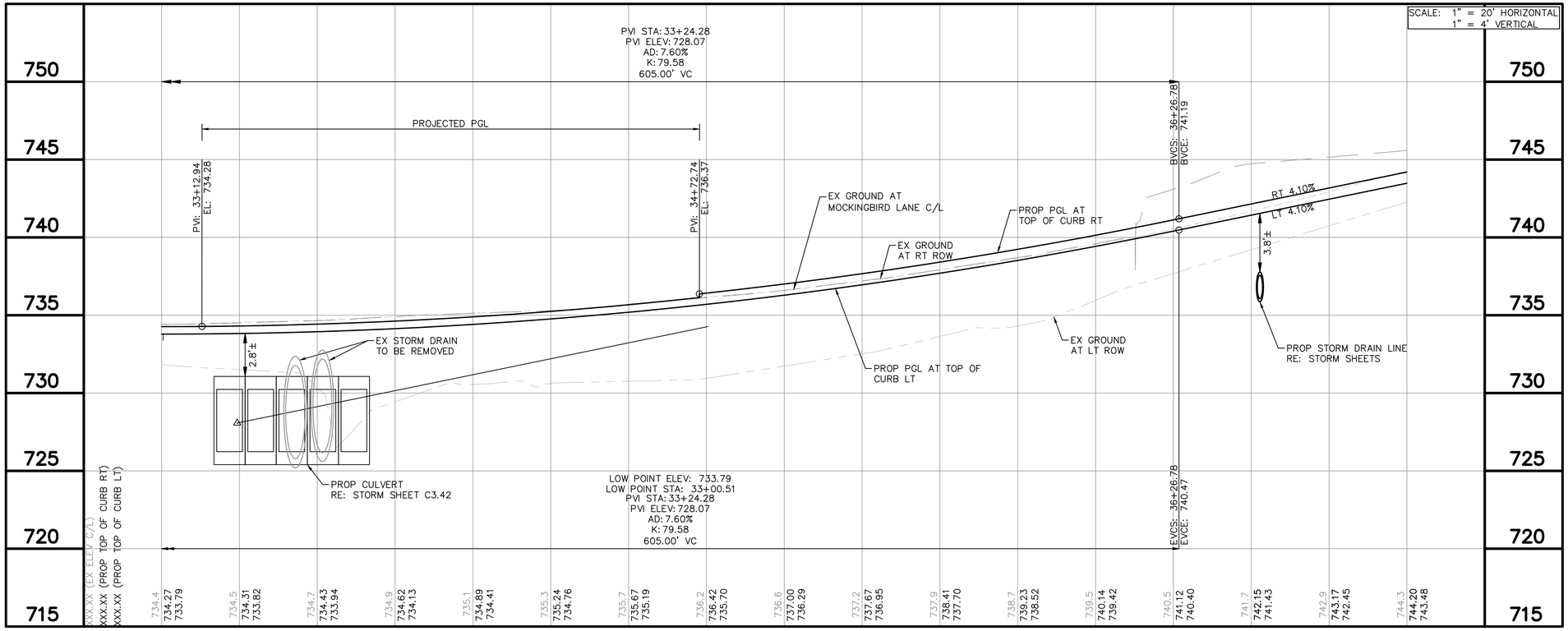
ORIGINAL PLOTTED SCALE: 1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 40 FT

LEGEND

- PROP 8" CONCRETE PAVEMENT
- PROP CONCRETE TRAIL
- PROP CONCRETE DRIVEWAY
- PROP LANE DIRECTION

NOTE:
1. AREA BETWEEN BACK OF INLET AND TRAIL SHALL BE CONCRETE.



Kimley»Horn

801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026

MISTY D. CHRISTIAN 98384 LICENSED PROFESSIONAL ENGINEER STATE OF TEXAS

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

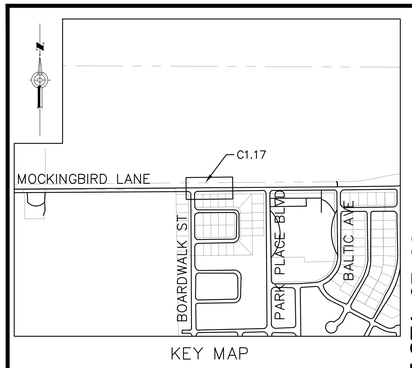
PAVING PLAN AND PROFILE - STA 33+00 TO STA 37+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C1.16

Plotted, By: 2026-08-21 11:47:48, Ertle, Jett
Last Saved: 2026-08-20 19:13:52 (STA 33+00 TO STA 37+00)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\paving p&p sta 25+00 to sta 49+00.dwg



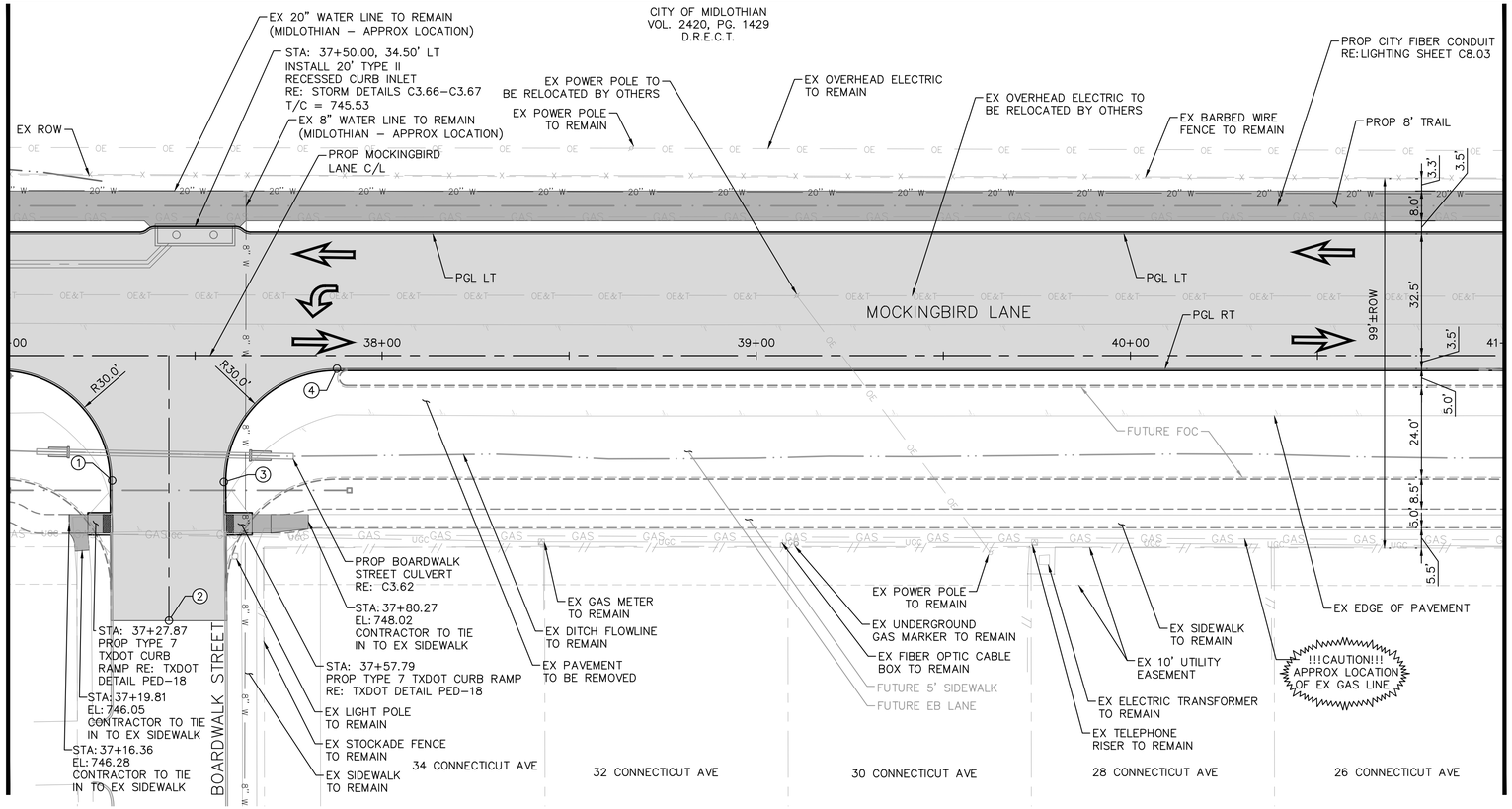
KEY MAP

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

POINT TABLE				
No.	STATION	OFFSET	DESC	ELEV
1	37+27.82	33.37' RT	TC–PT	745.94
2	37+43.00	70.83' RT	TP–ME	746.7±
3	37+57.69	33.77' RT	TC–PC	746.97
4	37+87.89	3.50' RT	TC–PT	748.16

MATCH LINE STA. 37+00



MATCH LINE STA. 41+00

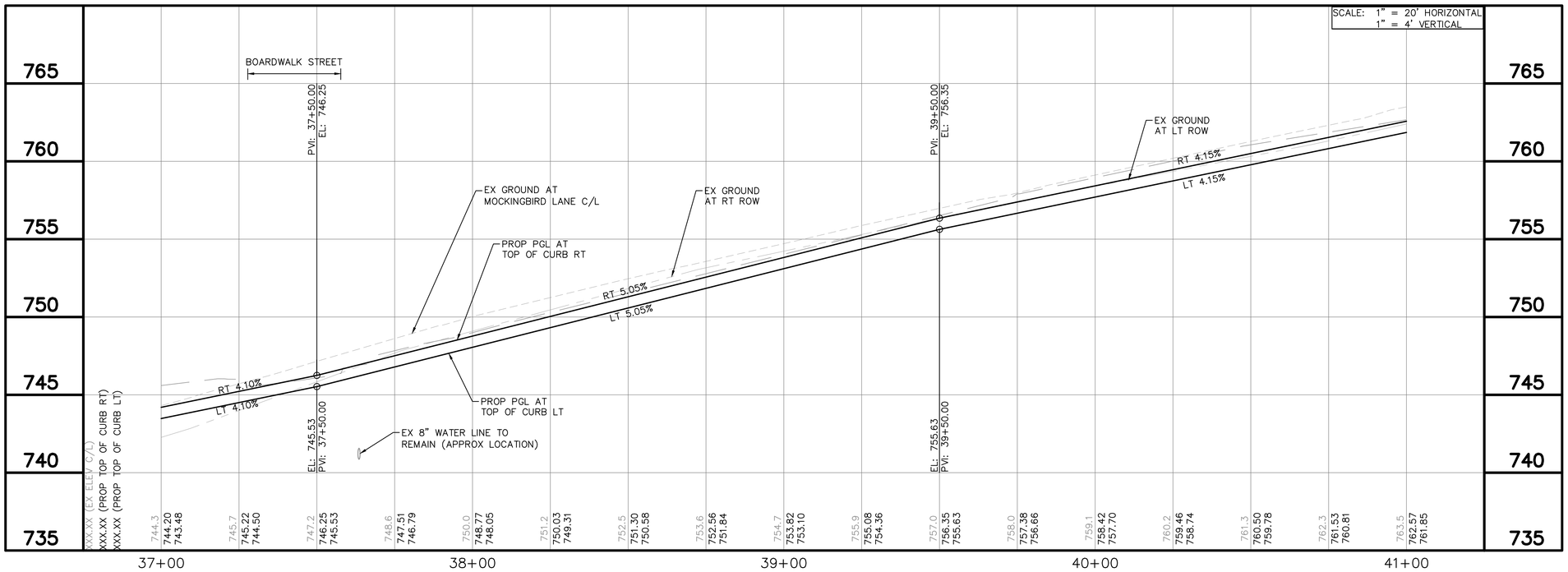
ORIGINAL PLOTTED SCALE: 1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 40 FT

LEGEND

- PROP 8" CONCRETE PAVEMENT
- PROP CONCRETE TRAIL
- PROP CONCRETE DRIVEWAY
- PROP LANE DIRECTION

NOTE:
1. AREA BETWEEN BACK OF INLET AND TRAIL SHALL BE CONCRETE.



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Last Saved: 2026-08-20 19:13:52 (STA 37+00 TO STA 41+00)
k:\ftw_roadway\061265047_midlothian mockingbird
Filename: lane\cadd\sheets\paving p&p sta 25+00 to sta 49+00.dwg

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

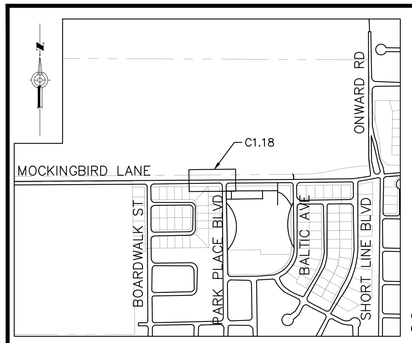
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

PAVING PLAN AND PROFILE - STA 37+00 TO STA 41+00

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C1.17



KEY MAP

POINT TABLE				
No.	STATION	OFFSET	DESC	ELEV
1	43+51.25	3.50' RT	TC-PC	772.97
2	43+71.25	23.50' RT	TC-PT	773.57
3	43+89.19	70.45' RT	TP-ME	773.0±
4	44+07.17	23.50' RT	TC-PC	774.45
5	44+27.17	3.50' RT	TC-PT	775.65

MATCH LINE STA. 41+00

PROP CITY FIBER CONDUIT RE:LIGHTING SHEET C8.03
EX POWER POLE TO BE RELOCATED BY OTHERS
EX POWER POLE TO REMAIN
EX ROW
EX OVERHEAD ELECTRIC TO REMAIN
EX OVERHEAD ELECTRIC TO BE RELOCATED BY OTHERS
EX BARBED WIRE FENCE TO REMAIN
EX MOCKINGBIRD NATURE TRAIL
CITY OF MIDLOTHIAN VOL. 2420, PG. 1429 D.R.E.C.T.
PROP 8' TRAIL
PROP MOCKINGBIRD LANE C/L
EX 20" WATER LINE TO REMAIN (MIDLOTHIAN – APPROX LOCATION)
EX 8" WATER LINE TO REMAIN (MIDLOTHIAN – APPROX LOCATION)
STA: 44+22.77 EL: 775.33 CONTRACTOR TO TIE IN TO EX SIDEWALK
STA: 44+22.69 PROP TYPE 1 TXDOT CURB RAMP RE: TXDOT DETAIL PED-18
EX POWER POLE TO REMAIN
PGL LT
99'±ROW
8.0'
2.8'
3.5'
24.0'
8.5'
8.5'
34.5'
16.5'
MOCKINGBIRD LANE
42+00
43+00
44+00
R20.0'
R20.0'
PARK PLACE BLVD
FUTURE FOC
EX ROW
EX 10' UTILITY EASEMENT
EX STREET LIGHT TO BE REMOVED AND RELOCATED BY OTHERS
EX CABLE BOX TO REMAIN
EX CHAIN LINK FENCE TO REMAIN
EX SIDEWALK TO REMAIN
FUTURE EB LANE
FUTURE 5' SIDEWALK
24 CONNECTICUT AVE
EX EDGE OF PAVEMENT
!!!CAUTION!!! APPROX LOCATION OF EX GAS LINE
EX GUY WIRES TO BE RELOCATED BY OTHERS
EX STOCKADE FENCE TO REMAIN
EX PROPERTY LINE
22 CONNECTICUT AVE
EX TELEPHONE RISER TO BE REMOVED BY OTHERS
STA: 43+33.95 EL: 773.22 CONTRACTOR TO TIE IN TO EX SIDEWALK
STA: 42+71.25 PROP TYPE 7 TXDOT CURB RAMP RE: TXDOT DETAIL PED-18
STA: 43+63.51 EL: 773.58 CONTRACTOR TO TIE IN TO EX SIDEWALK
EX POWER POLE TO REMAIN
1033 PARK PLACE BLVD
EX TREES TO REMAIN
STA: 44+22.58 PROP TYPE 7 AND TYPE 1 TXDOT CURB RAMP RE: TXDOT DETAIL PED-18
STA: 44+07.17 PROP TYPE 7 AND TYPE 1 TXDOT CURB RAMP RE: TXDOT DETAIL PED-18
PROP STREET LIGHT FOUNDATION RE:LIGHTING SHEET C8.03
EX PAVEMENT TO BE REMOVED
STA: 44+47.57 EL: 775.45 CONTRACTOR TO TIE IN TO EX SIDEWALK
MIDLOTHIAN I.S.D. PARK PLACE 2ND SECTION LOT 1, BLOCK 7 CAB. B, SLIDE 482 P.R.E.C.T.

MATCH LINE STA. 45+00

GRAPHIC SCALE
20 0 10 20 40
ORIGINAL PLOTTED SCALE: 1 inch = 20 ft.
IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 40 FT

LEGEND
- PROP 8" CONCRETE PAVEMENT
- PROP CONCRETE TRAIL
- PROP CONCRETE DRIVEWAY
- PROP STAMPED CONCRETE
- PROP SOD
- PROP LANE DIRECTION

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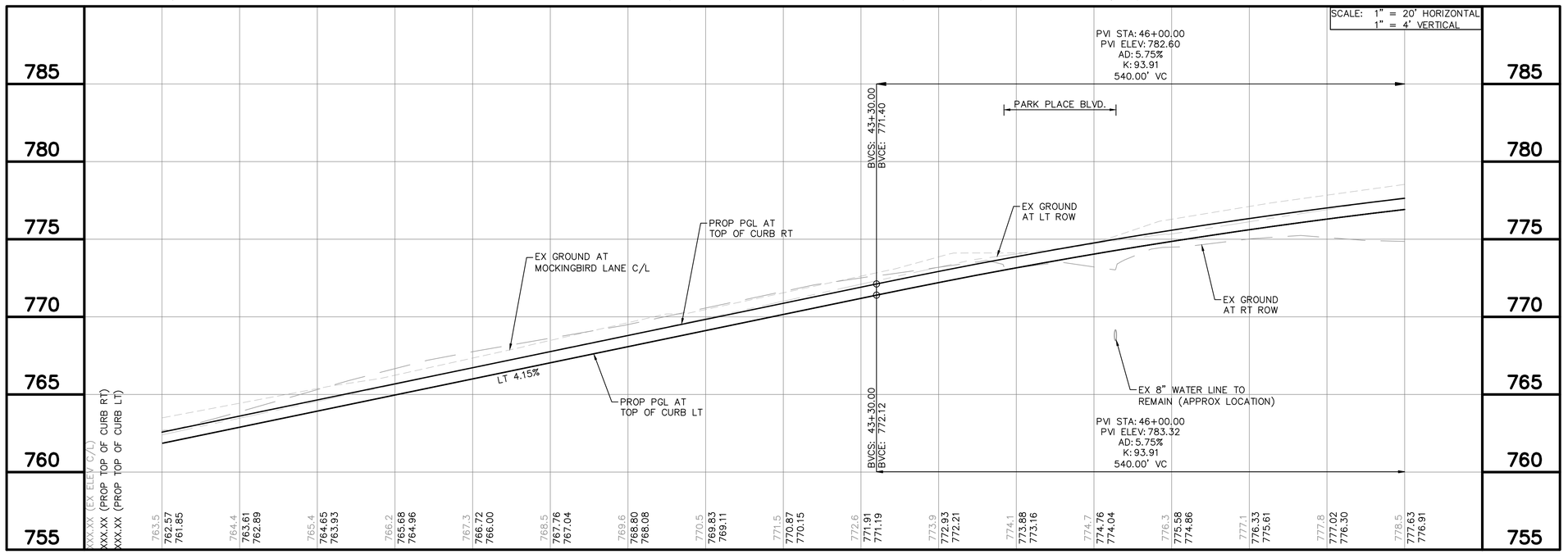


Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS MISTY D. CHRISTIAN 98384 REGISTERED PROFESSIONAL ENGINEER

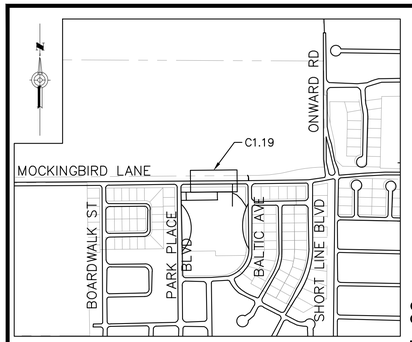
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

PAVING PLAN AND PROFILE - STA 41+00 TO STA 45+00

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C1.18

Plotted By: 2026-08-21 11:54:00, Ertle, Jett
Last Saved: 2026-08-20 19:13:52 (STA 41+00 TO STA 45+00)
k:\ftw_roadway\061265047_midlothian mockingbird
Filename: lane\cadd\sheets\paving p&p sta 25+00 to sta 49+00.dwg



KEY MAP

CAUTION!!

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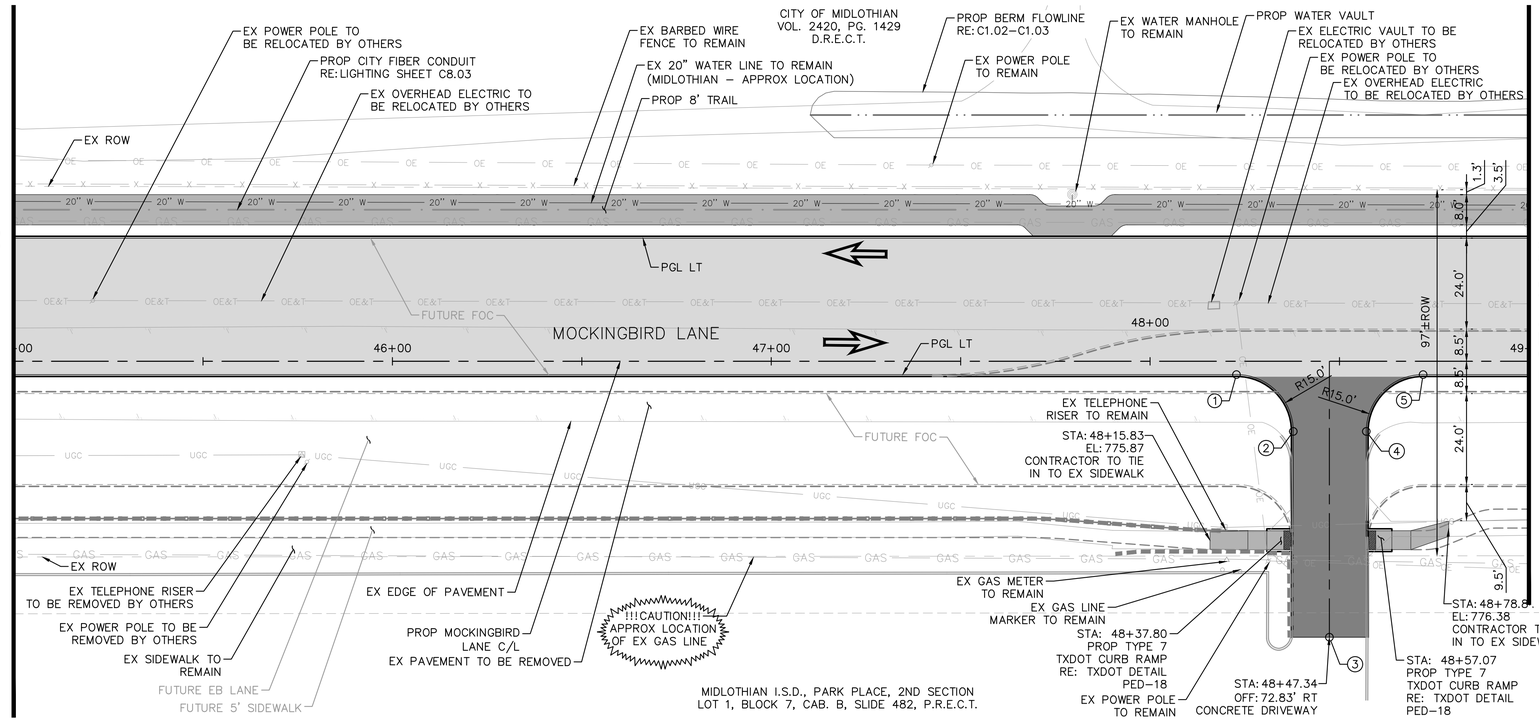
POINT TABLE				
No.	STATION	OFFSET	DESC	ELEV
1	48+22.80	3.50' RT	TC–PC	779.64
2	48+37.80	18.50' RT	TC–PT	778.30
3	48+47.34	72.83' RT	TP–ME	772.5±
4	48+57.07	18.50' RT	TC–PRC	778.40
5	48+72.07	3.50' RT	TC–PT	778.97

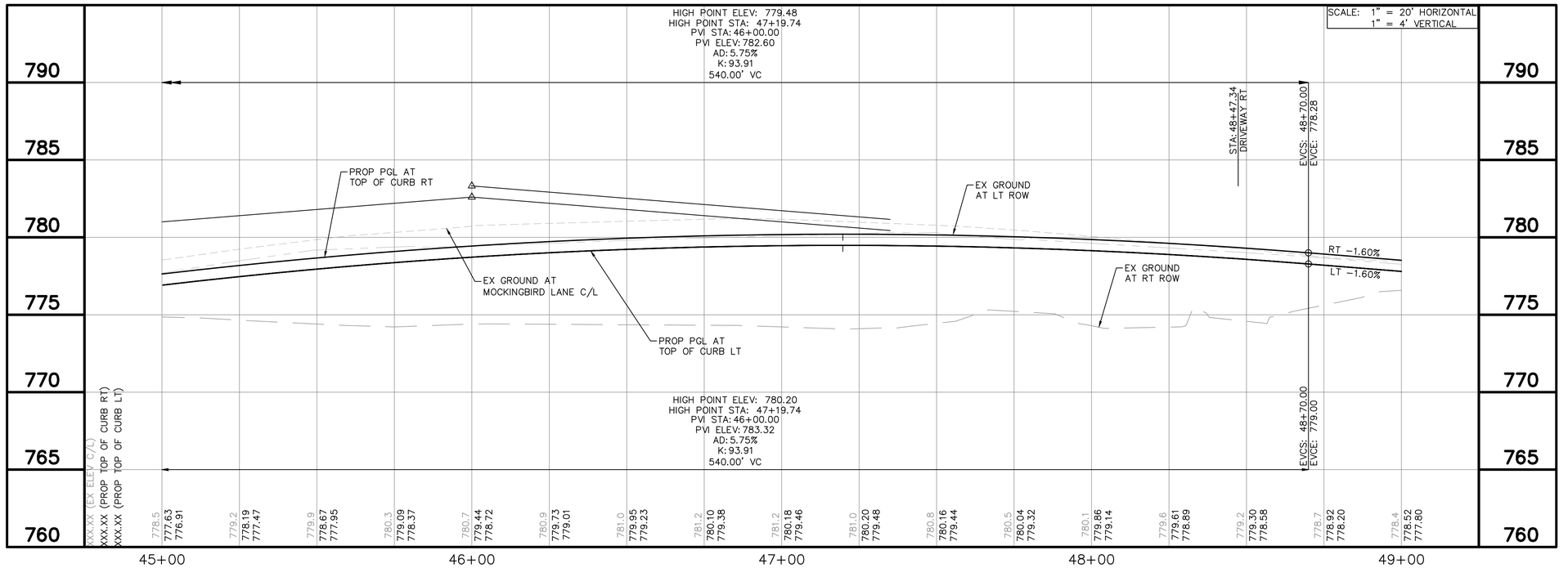


ORIGINAL PLOTTED SCALE: 1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 40 FT

LEGEND

- PROP 8" CONCRETE PAVEMENT
- PROP CONCRETE TRAIL
- PROP CONCRETE DRIVEWAY
- PROP STAMPED CONCRETE
- PROP SOD
- PROP LANE DIRECTION



Plotted, By: 2026-08-21 11:57:10, Ertle, Jett
Last Saved: 2026-08-20 19:13:52 (STA 45+00 TO STA 49+00)
Filename: k:\tw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\paving p&p sta 25+00 to sta 49+00.dwg

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

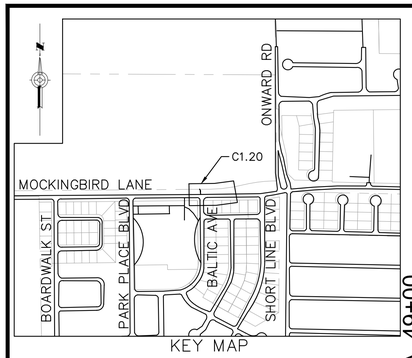
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

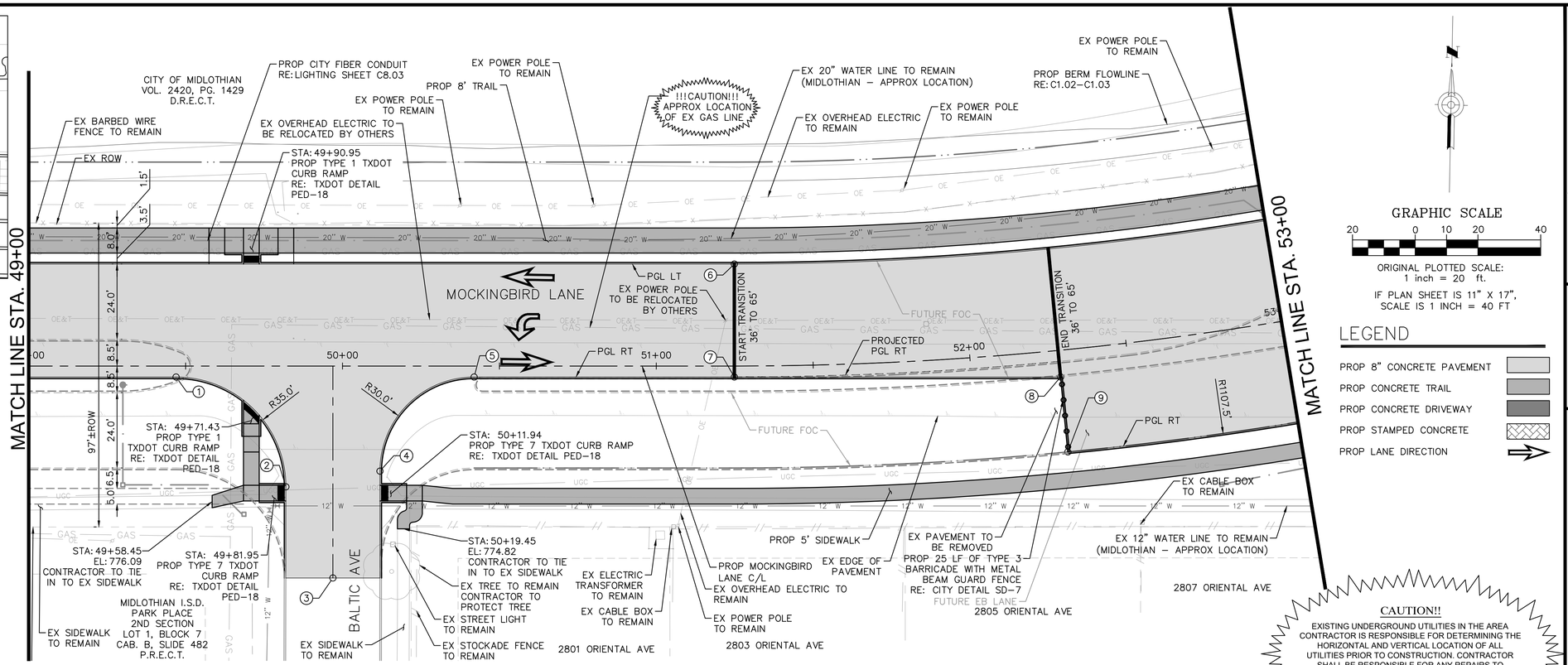
PAVING PLAN AND PROFILE - STA 45+00 TO STA 49+00

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C1.19



POINT TABLE				
No.	STATION	OFFSET	DESC	ELEV
1	49+46.95	3.50' RT	TC–PC	777.77
2	49+81.95	38.50' RT	TC–PT	775.79
3	49+96.94	67.56' RT	TP–ME	774.4±
4	50+11.94	33.50' RT	TC–PC	775.69
5	50+41.94	3.50' RT	TC–PT	776.25
6	51+24.87	32.50' LT	TC–PC	774.20
7	51+24.87	3.50' RT	TC–PI	774.92
8	52+28.19	8.50' RT	TC–PI	772.92
9	52+28.19	32.50' RT	TC–PI	772.90



GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE: 1 inch = 20 ft.

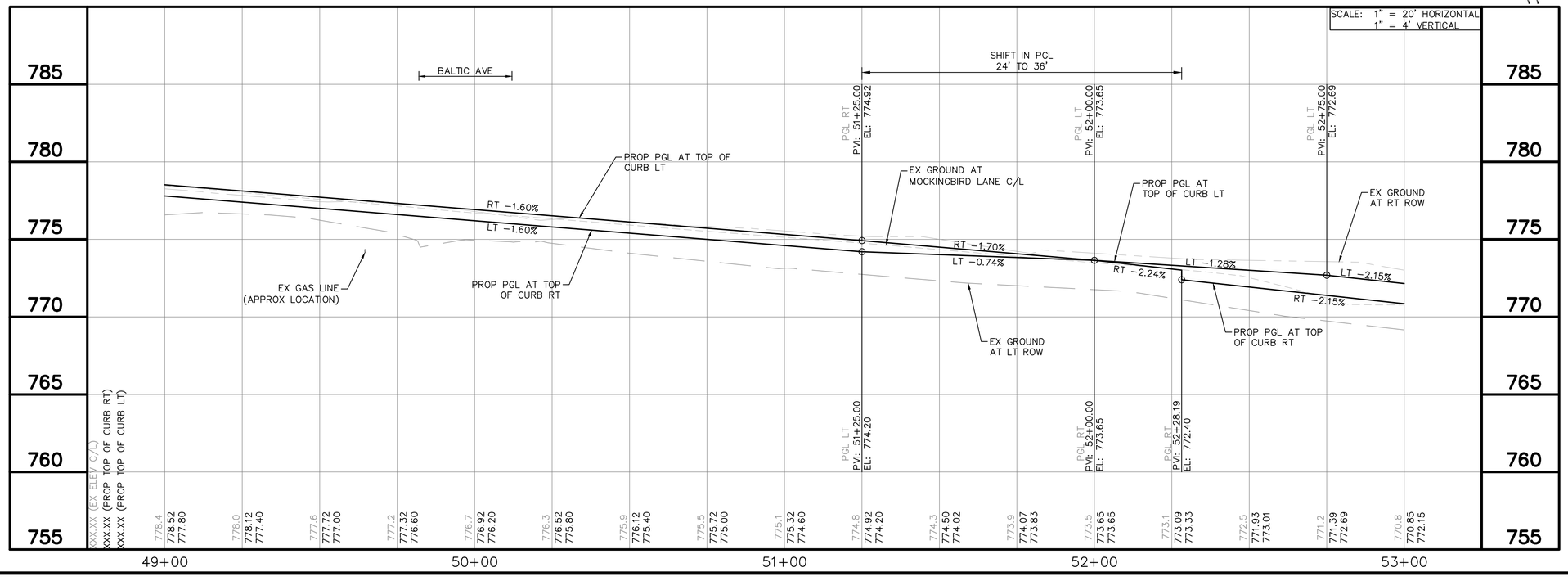
IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 40 FT

LEGEND

- PROP 8" CONCRETE PAVEMENT
- PROP CONCRETE TRAIL
- PROP CONCRETE DRIVEWAY
- PROP STAMPED CONCRETE
- PROP LANE DIRECTION

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.



Kimley»Horn

801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026

CITY OF MIDLOTHIAN MOCKINGBIRD LANE 2021 BOND PROJECT

PAVING PLAN AND PROFILE - STA 49+00 TO STA 53+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C1.20

Plotted, By: 2026-08-21 17:36:01, Cratty, Austin
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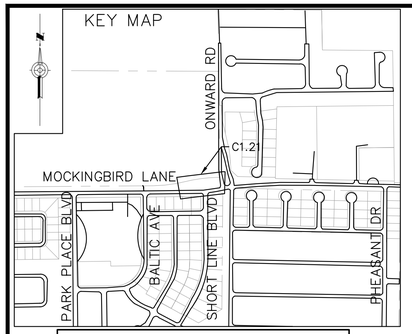
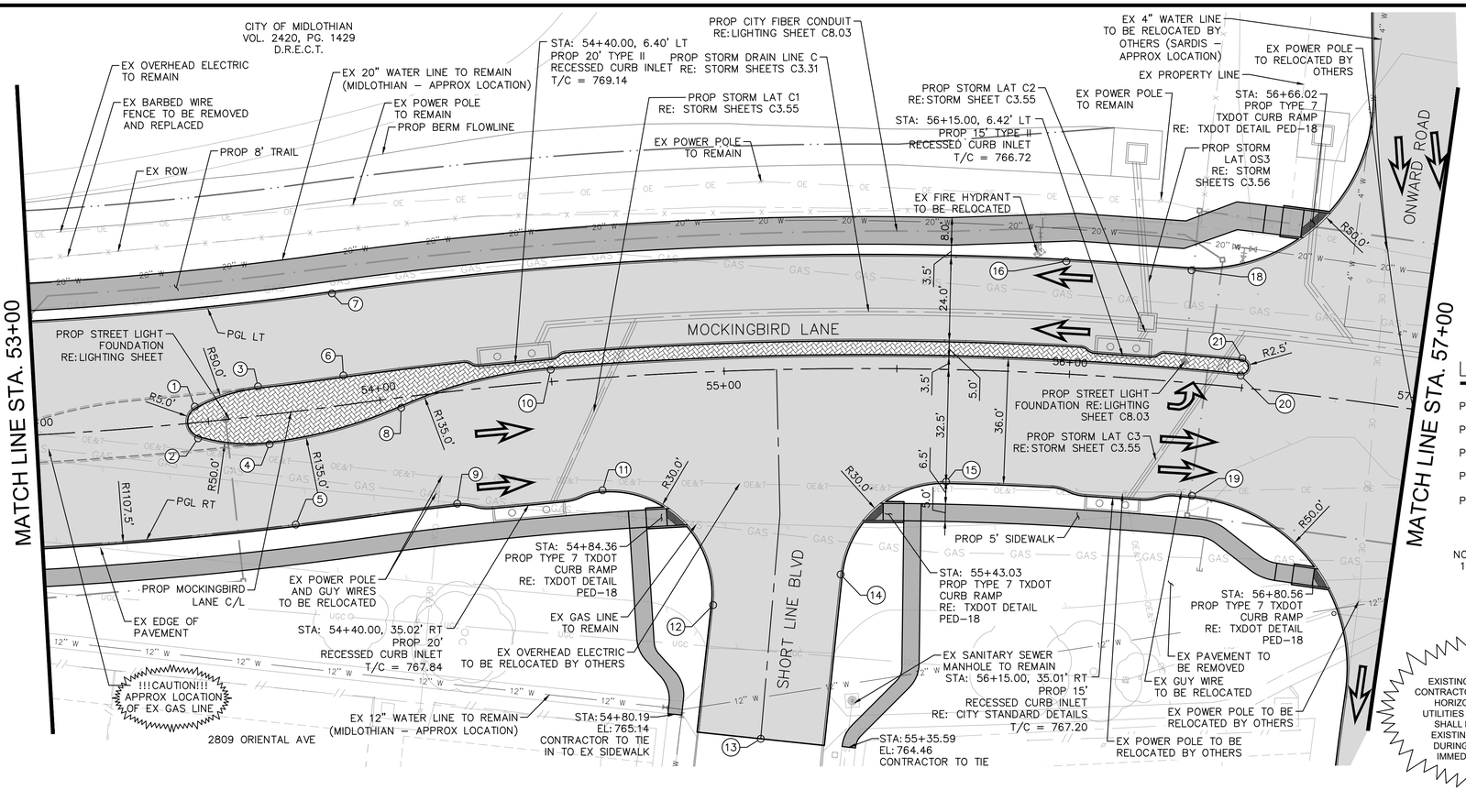
Filename: lane\cadd\sheets\paving p&p sta 49+00 to sta 73+00.dwg



POINT TABLE				
No.	STATION	OFFSET	DESC	ELEV
1	53+46.44	4.64' LT	TC–PC	771.10
2	53+46.51	4.58' RT	TC–PC	770.91
3	53+65.39	8.50' LT	TC–PRC	770.77
4	53+66.74	8.50' RT	TC–PC	769.90
5	53+71.42	32.50' RT	TC–PC	769.82
6	53+90.51	8.50' LT	TC–PRC	770.23
7	53+90.51	32.50' LT	TC–PRC	770.21
8	54+05.79	2.99' RT	TC–PRC	769.67
9	54+18.82	32.48' RT	TC–PT	768.30
10	54+50.00	3.50' LT	TC–PC	768.85
11	54+62.40	32.50' RT	TC–PC	767.38
12	54+93.88	67.55' RT	TC–PT	767.54
13	55+07.32	106.75' RT	TP–ME	764.9±
14	55+33.33	59.60' RT	TC–PC	766.84
15	55+64.99	32.50' RT	TC–PT	766.06
16	55+97.37	32.61' LT	TC–PC	767.47
18	56+32.63	32.51' LT	TC–PC	767.23
19	56+38.50	32.50' RT	TC–PC	765.94
20	56+49.35	3.50' LT	TC–PC	765.20
21	56+49.35	8.50' LT	TC–PT	767.30



GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE: 1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 40 FT

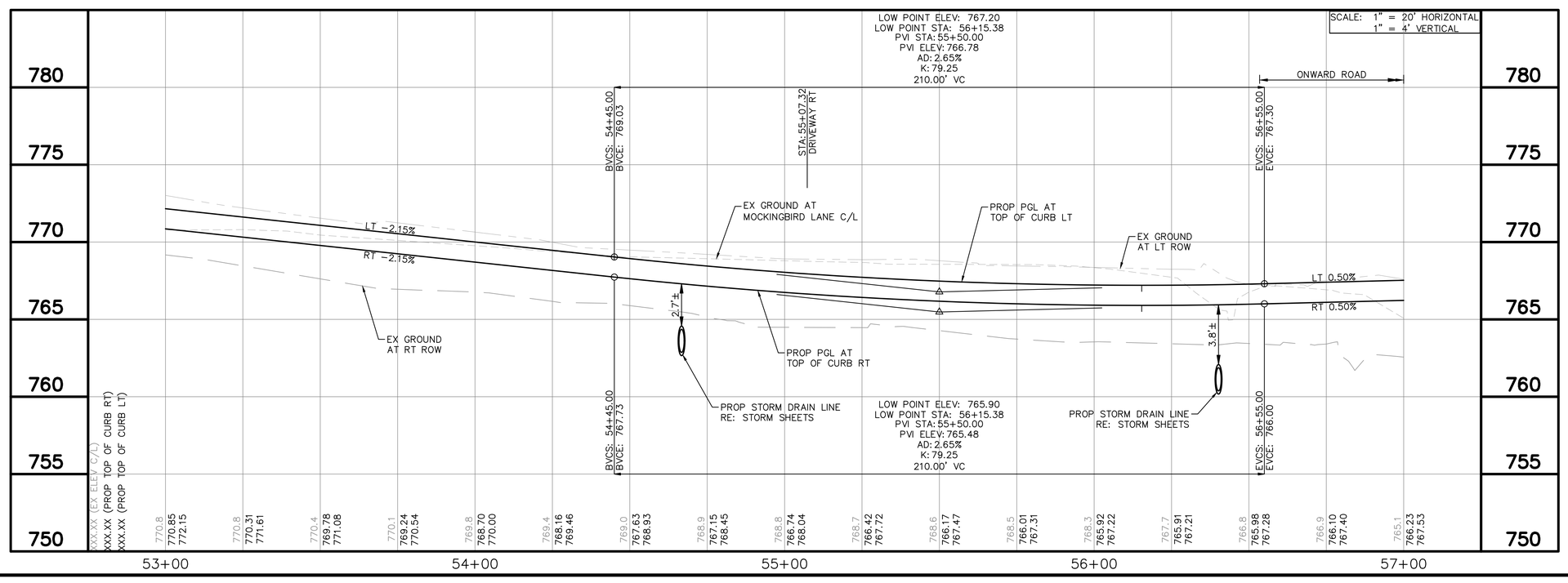
LEGEND

- PROP 8" CONCRETE PAVEMENT
- PROP CONCRETE TRAIL
- PROP CONCRETE DRIVEWAY
- PROP STAMPED CONCRETE
- PROP LANE DIRECTION

NOTE:
1. AREA BETWEEN BACK OF INLET AND TRAIL SHALL BE CONCRETE.

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.



Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

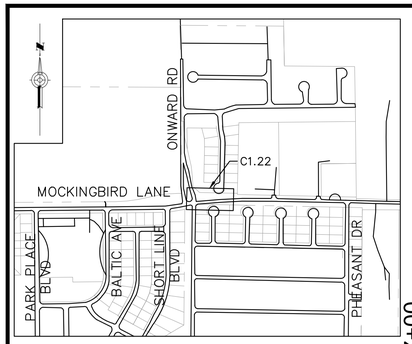
PAVING PLAN AND PROFILE - STA 53+00 TO STA 57+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

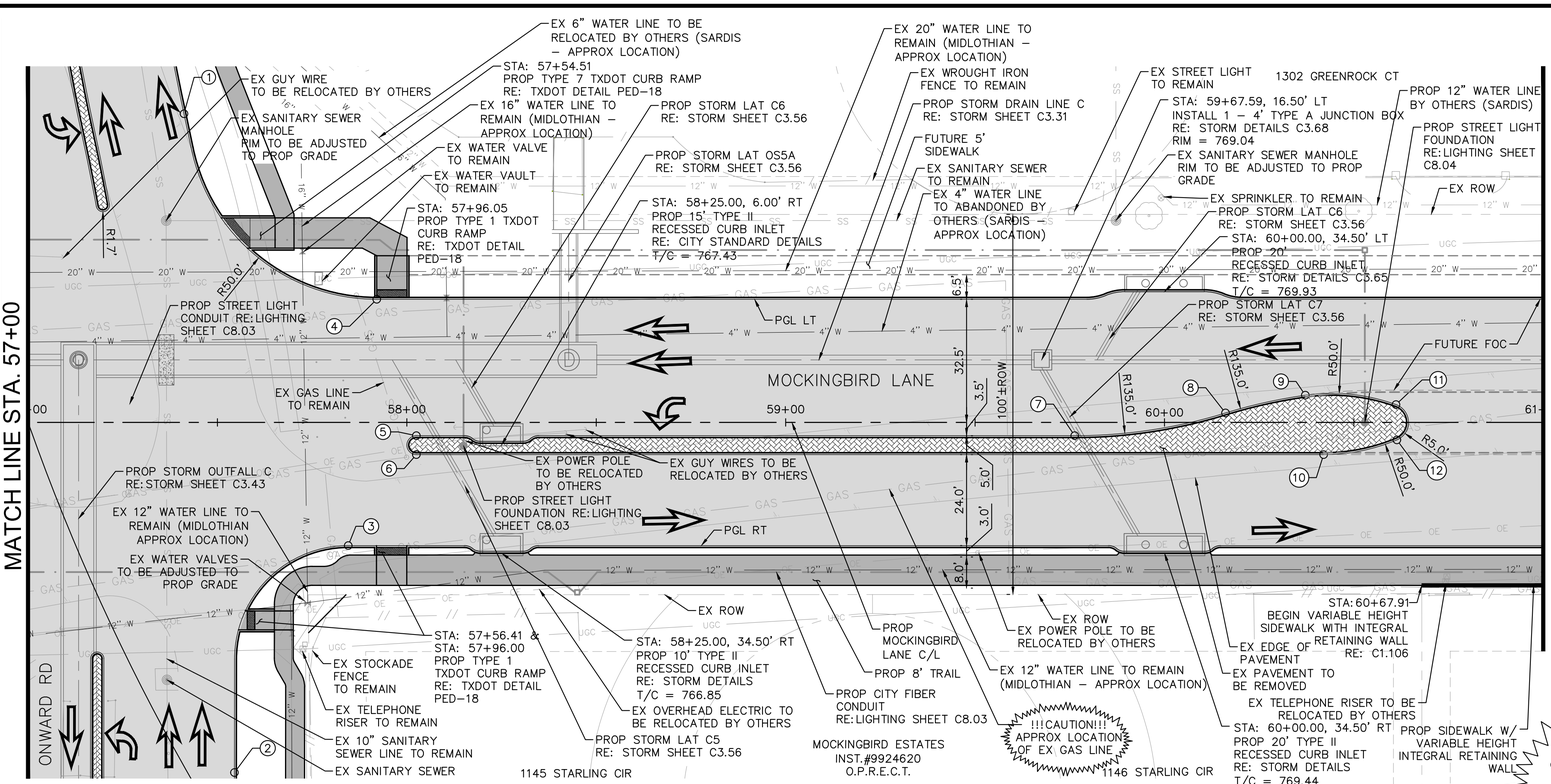
C1.21

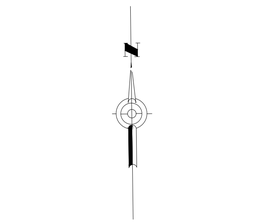
Plotted By: 2026-08-21 12:01:23, Ertle, Jett
Last Saved: 2026-08-21 09:29:33 (STA 53+00 TO STA 57+00)
k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\paving p&p sta 49+00 to sta 73+00.dwg
Filename:



KEY MAP

POINT TABLE				
No.	STATION	OFFSET	DESC	ELEV
1	57+41.17	81.48' LT	TC–PC	768.20
2	57+54.50	92.41' RT	TC–PC	765.08
3	57+84.52	32.50' RT	TC–PT	766.65
4	57+92.05	32.50' LT	TC–PT	767.99
5	58+02.51	3.50' RT	TC–PT	767.82
6	58+02.51	8.50' RT	TC–PT	767.72
7	59+76.29	3.50' RT	TC–PC	770.49
8	60+16.09	2.50' LT	TC–PRC	771.38
9	60+37.16	7.19' LT	TC–PCC	771.78
10	60+41.99	8.50' RT	TC–PC	771.62
11	60+61.09	4.70' LT	TC–PT	772.46
12	60+61.32	4.61' RT	TC–PC	772.32





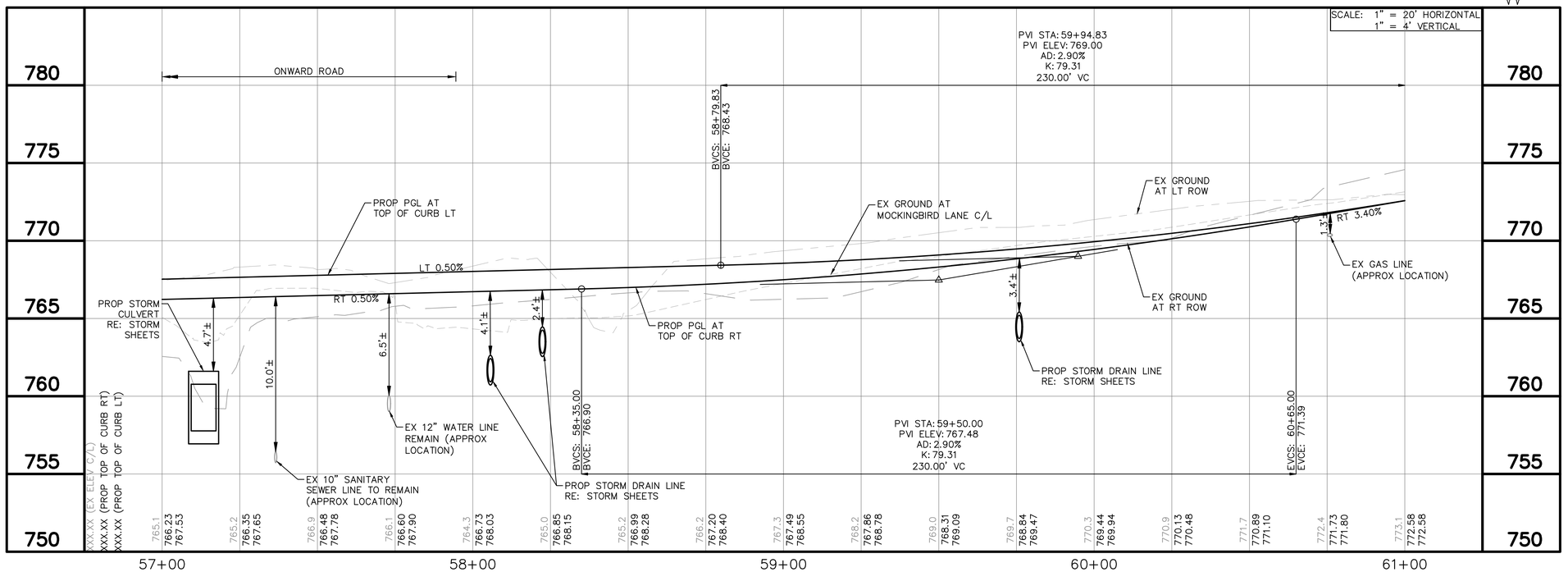
LEGEND

- PROP 8" CONCRETE PAVEMENT
- PROP CONCRETE TRAIL
- PROP CONCRETE DRIVEWAY
- PROP STAMPED CONCRETE
- PROP LANE DIRECTION

NOTE:
1. AREA BETWEEN BACK OF INLET AND TRAIL SHALL BE CONCRETE.

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.



Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS MICKEY D. CHRISTIAN 98384 REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

PAVING PLAN AND PROFILE - STA 57+00 TO STA 61+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C1.22

Plotted, By: 2026-08-21 12:03:29, Ertle, Jett
Last Saved: 2026-08-21 09:29:33 (STA 57+00 TO STA 61+00)
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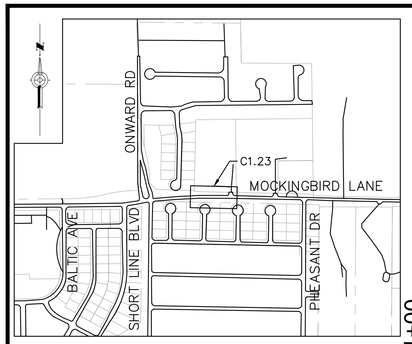
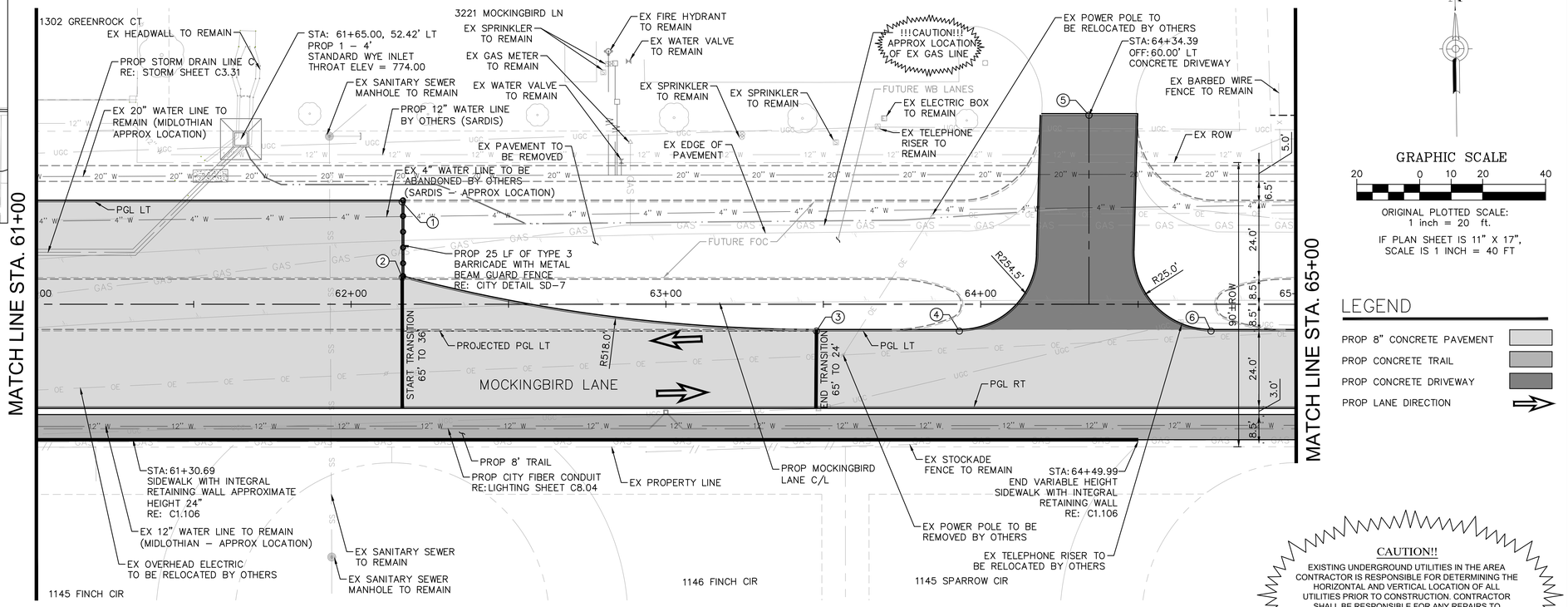


KEY MAP

POINT TABLE				
No.	STATION	OFFSET	DESC	ELEV
1	62+16.23	32.50' LT	TC-ME	776.0±
2	62+16.23	8.50' LT	TC-PRC	776.5±
3	63+47.85	8.50' RT	TC-PT	779.76
4	63+93.22	8.50' RT	TC-PC	780.69
5	64+34.39	60.00' LT	TP-ME	781.8±
6	64+73.16	8.50' RT	TC-PT	781.59



GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE: 1 inch = 20 ft.

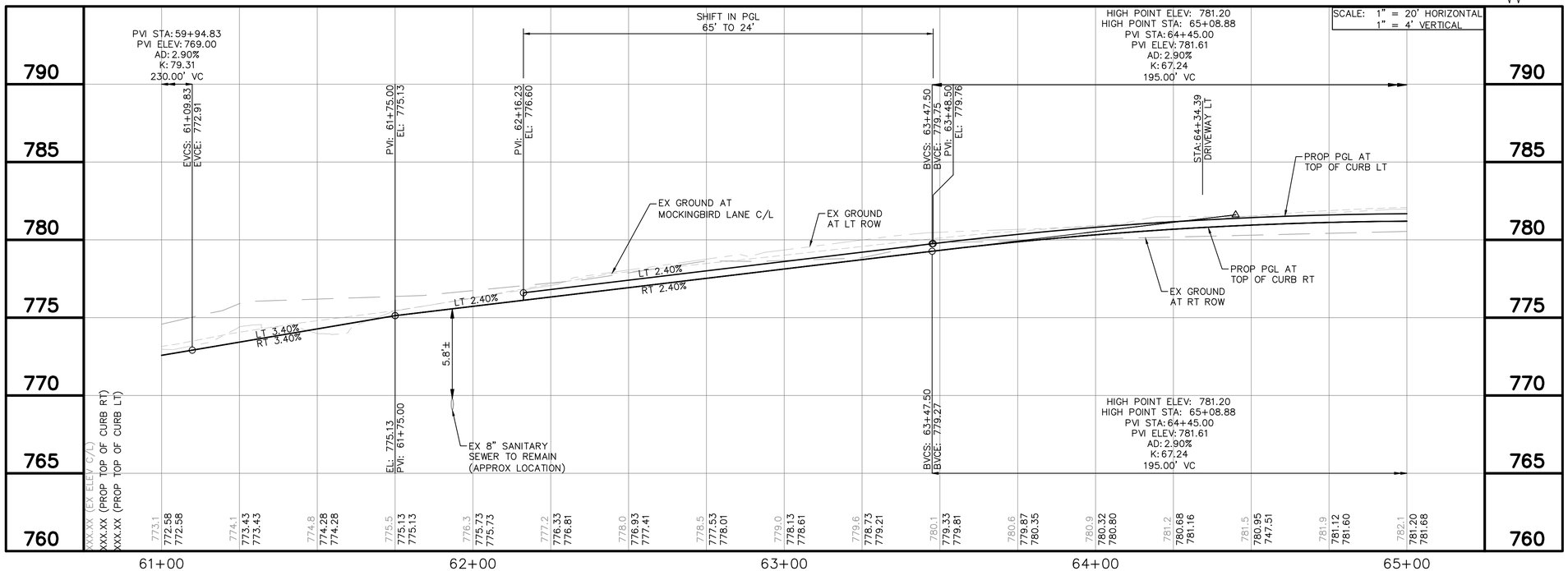
IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 40 FT

LEGEND

- PROP 8" CONCRETE PAVEMENT
- PROP CONCRETE TRAIL
- PROP CONCRETE DRIVEWAY
- PROP LANE DIRECTION

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.



Kimley»Horn

801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026

STATE OF TEXAS — MISTY D. CHRISTIAN — 98384 — REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

PAVING PLAN AND PROFILE - STA 61+00 TO STA 65+00

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER

C1.23

Plotted By: 2026-08-21 17:38:10, Crotty, Austin
Last Saved: 2026-08-21 15:09:59 (STA 61+00 TO STA 65+00)
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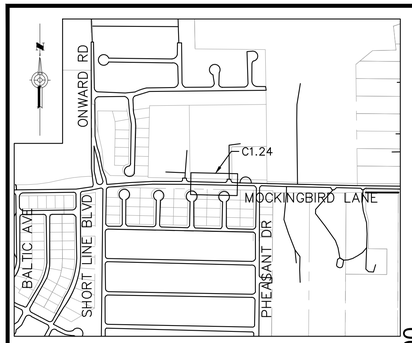
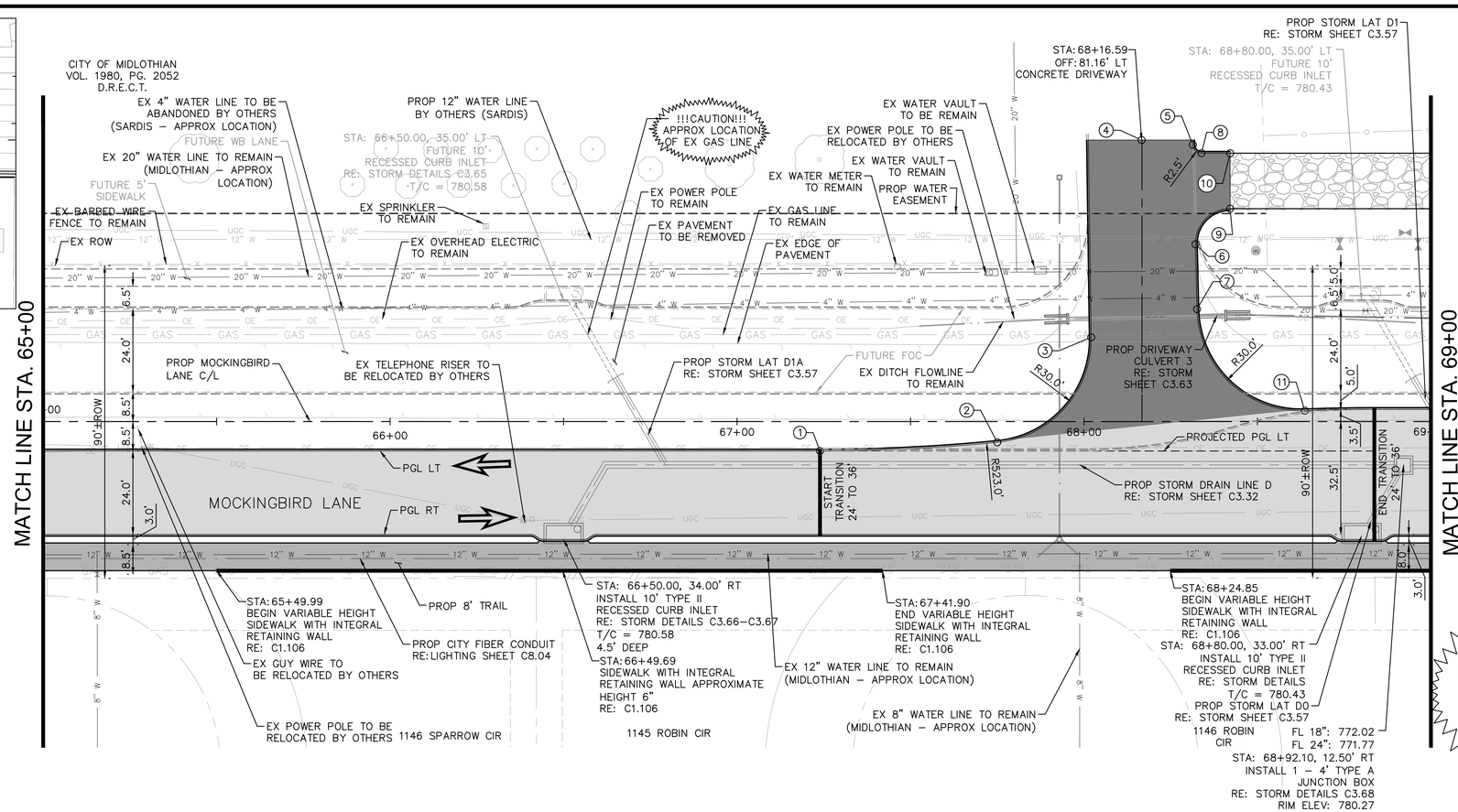


KEY MAP

POINT TABLE				
No.	STATION	OFFSET	DESC	ELEV
1	67+23.89	8.50' RT	TC–PC	781.43
2	67+75.00	5.99' RT	TC–PCC	781.49
3	68+02.06	24.29' LT	TC–PT	782.92
4	68+16.59	81.16' LT	TP–ME	783.52
5	68+31.36	79.80' LT	TC–PC	783.0±
6	68+32.11	51.13' LT	TC–PT	782.94
7	68+32.55	32.40' LT	TC–PC	783.24
8	68+33.86	77.36' LT	TC–PC	783.28
9	68+42.10	61.36' LT	TC–PT	783.16
10	68+42.10	77.36' LT	TC	783.32
11	68+63.64	3.13' LT	TC–PT	781.23



GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE: 1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 40 FT

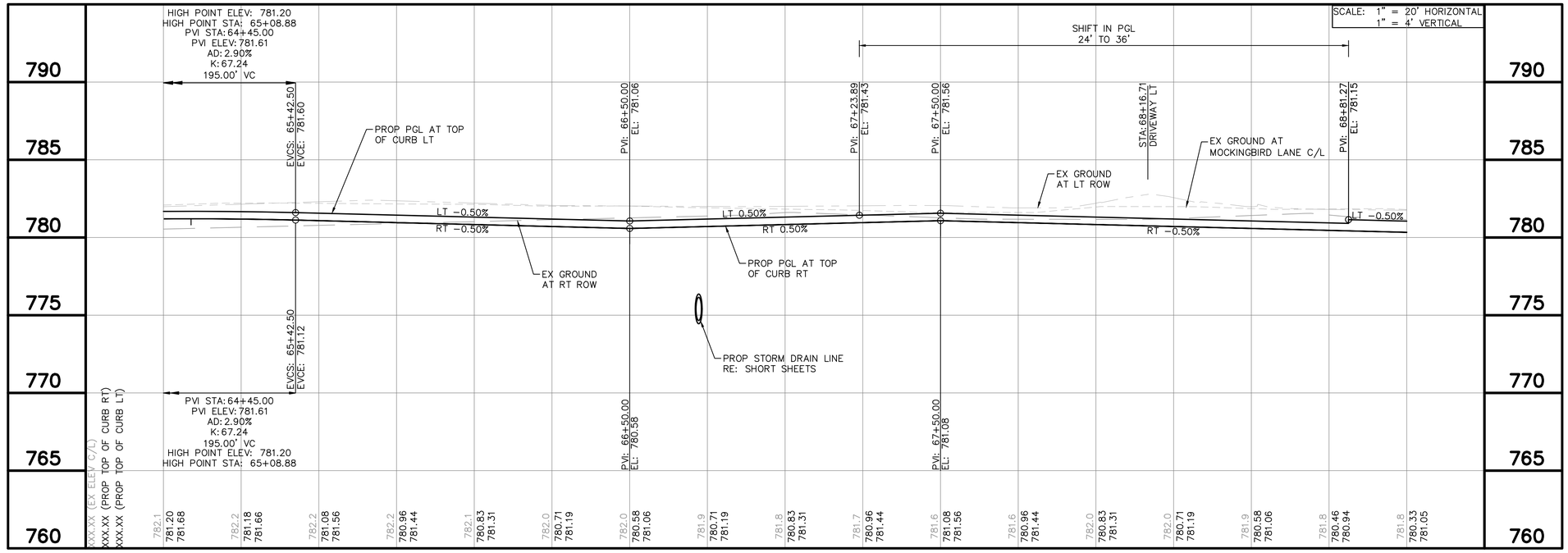
LEGEND

- PROP 8" CONCRETE PAVEMENT
- PROP CONCRETE TRAIL
- PROP CONCRETE DRIVEWAY
- PROP GRAVEL DRIVEWAY
- PROP LANE DIRECTION

NOTE:
1. AREA BETWEEN BACK OF INLET AND TRAIL SHALL BE CONCRETE.

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.



Kimley»Horn

801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

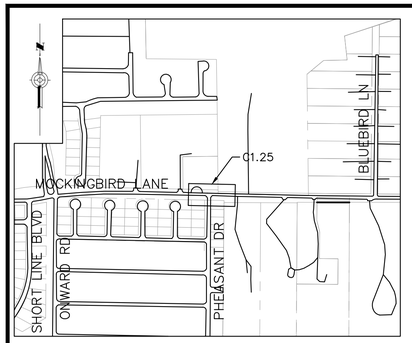
PAVING PLAN AND PROFILE - STA 65+00 TO STA 69+00

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER

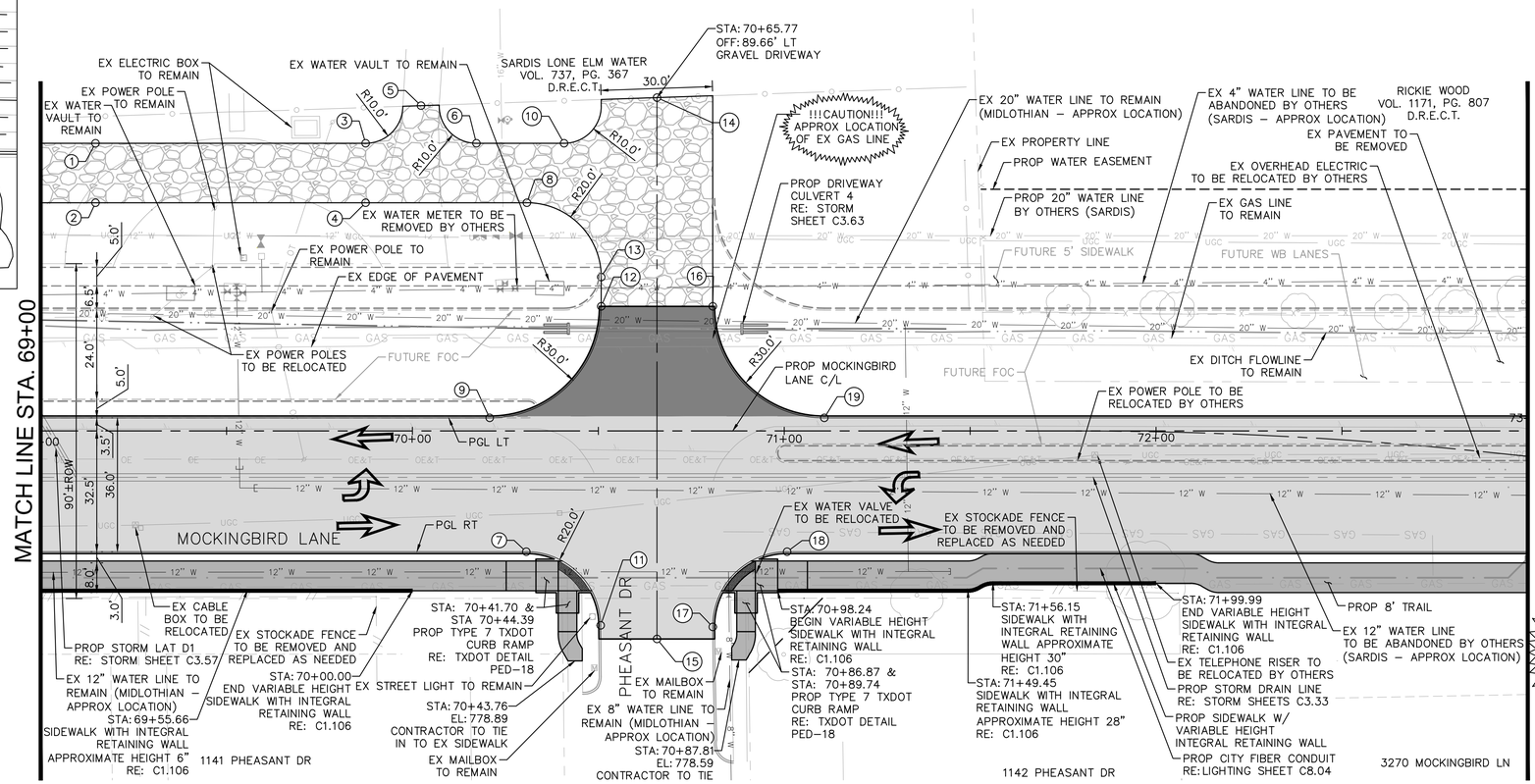
C1.24

Plotted By: 2026-08-21 12:05:46, Ertle, Jett
Last Saved: 2026-08-21 12:03:58 (STA 65+00 TO STA 69+00)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\paving p&p sta 49+00 to sta 73+00.dwg



KEY MAP

POINT TABLE				
No.	STATION	OFFSET	DESC	ELEV
1	69+14.76	77.36' LT	TP	782.55
2	69+14.76	61.36' LT	TP	782.07
3	69+87.41	77.36' LT	TP	781.80
4	69+87.41	61.36' LT	TP	781.32
5	70+02.31	87.49' LT	TP–ME	781.2±
6	70+17.20	77.36' LT	TP	781.13
7	70+30.62	32.50' RT	TC–PC	779.18
8	70+30.77	61.36' LT	TP	780.37
9	70+20.77	3.50' LT	TC–PC	780.07
10	70+40.77	77.36' LT	TP	780.66
11	70+50.62	52.31' RT	TC–PT	778.85
12	70+50.77	33.50' LT	TC–PT	782.51
13	70+50.77	41.36' LT	TP	782.10
14	70+65.77	89.66' LT	TP–ME	779.9±
15	70+65.77	55.97' RT	TP–ME	778.6±
16	70+80.77	33.50' LT	TC–PT	781.83
17	70+80.77	52.73' RT	TC–PT	778.69
18	71+00.77	32.50' RT	TC–PT	777.65
19	71+10.77	3.50' LT	TC–PT	778.14



GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE: 1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 40 FT

LEGEND

- PROP 8" CONCRETE PAVEMENT
- PROP CONCRETE TRAIL
- PROP CONCRETE DRIVEWAY
- PROP GRAVEL DRIVEWAY
- PROP LANE DIRECTION

CAUTION!!

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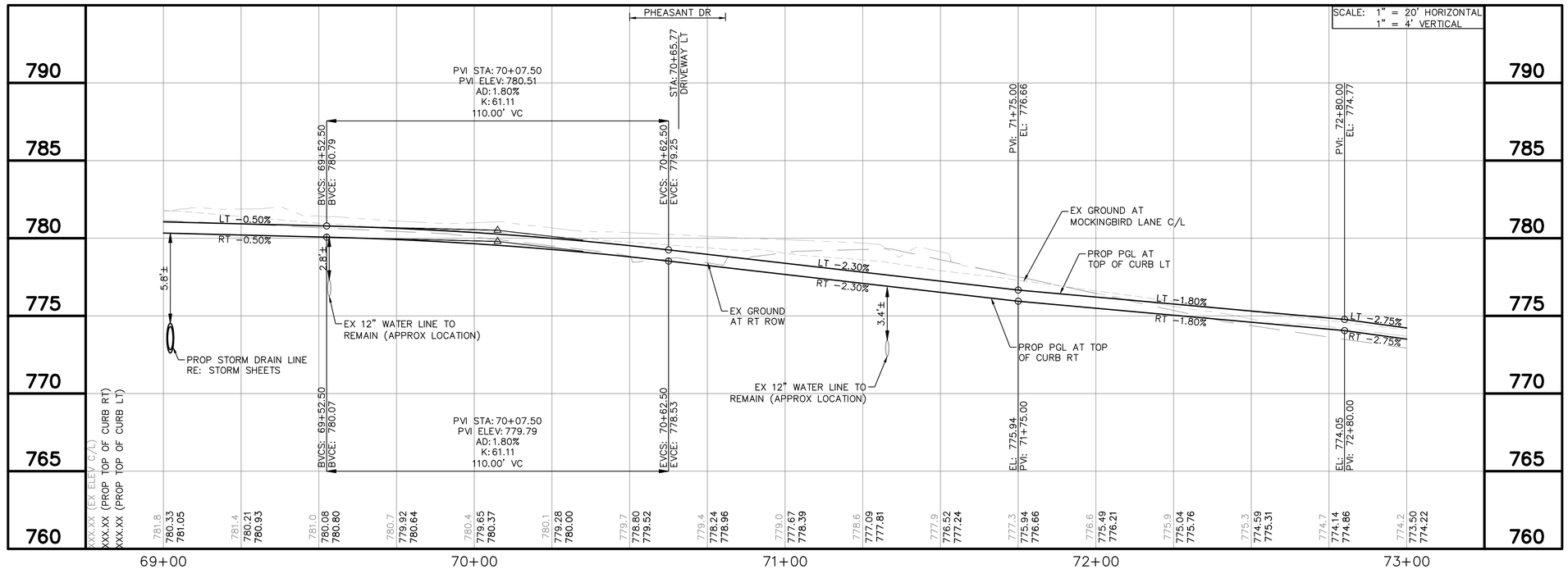


Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

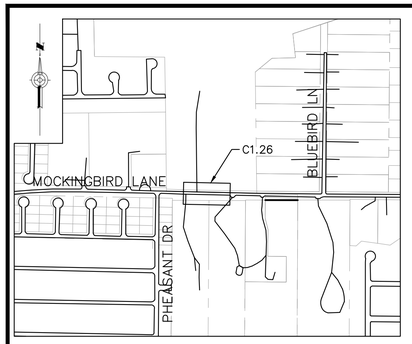
PAVING PLAN AND PROFILE - STA 69+00 TO STA 73+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

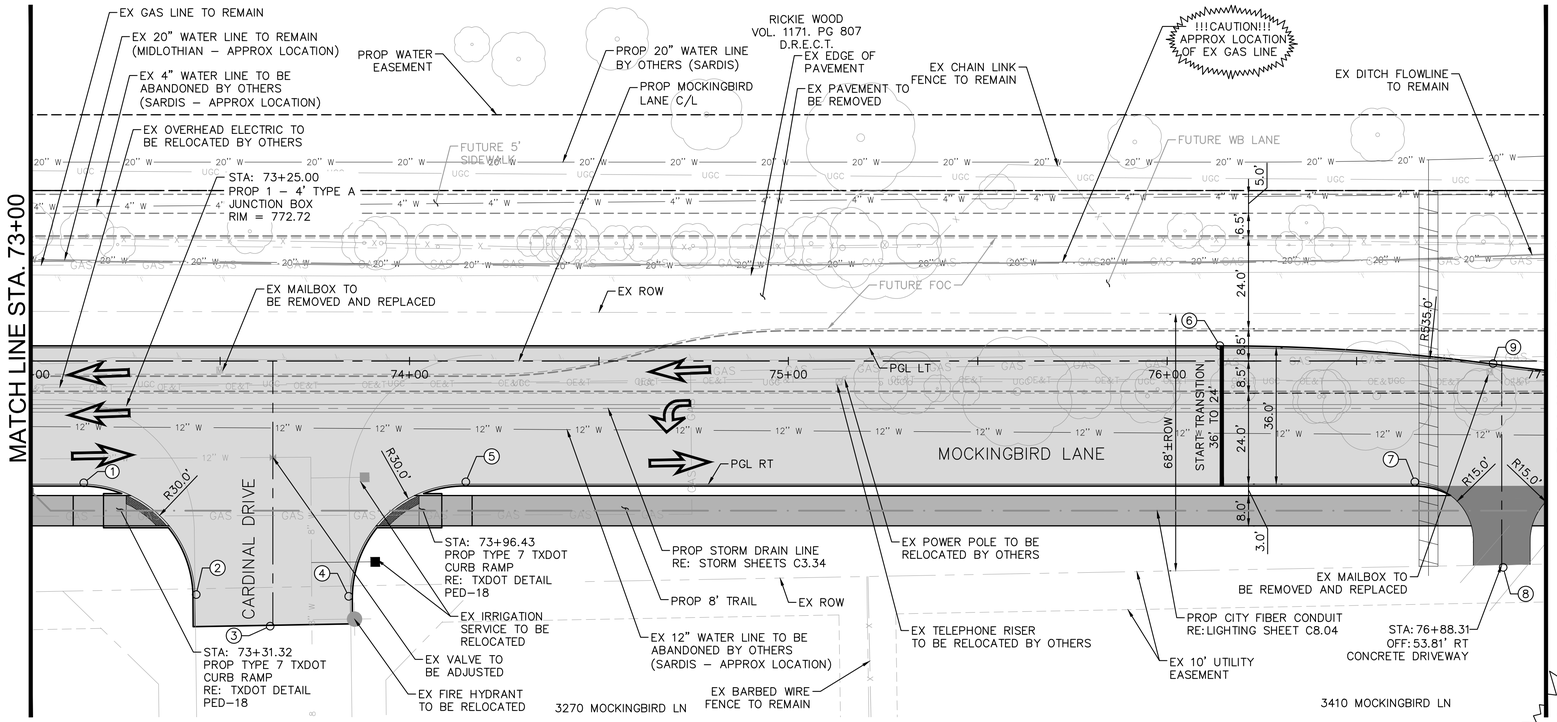
C1.25

Plotted, By: 2026-08-21 12:06:12, Ertle, Jett
Last Saved: 2026-08-21 12:03:58 (STA 69+00 TO STA 73+00)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\paving p&p sta 49+00 to sta 73+00.dwg



KEY MAP

POINT TABLE				
No.	STATION	OFFSET	DESC	ELEV
1	73+13.34	32.50' RT	TC-PC	773.14
2	73+43.34	62.31' RT	TC-PT	772.92
3	73+63.92	69.74' RT	TP-ME	773.4±
4	73+84.41	62.69' RT	TC-PC	772.57
5	74+14.41	32.50' RT	TC-PT	770.36
6	76+14.41	3.50' LT	TC-PC	765.58
7	76+65.81	32.50' RT	TC-PC	763.59
8	76+88.31	53.81' RT	TP-ME	763.3±
9	76+85.55	1.25' RT	TC-PRC	763.73



GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE: 1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 40 FT

LEGEND

- PROP 8" CONCRETE PAVEMENT
- PROP CONCRETE TRAIL
- PROP CONCRETE DRIVEWAY
- PROP LANE DIRECTION

CAUTION!!

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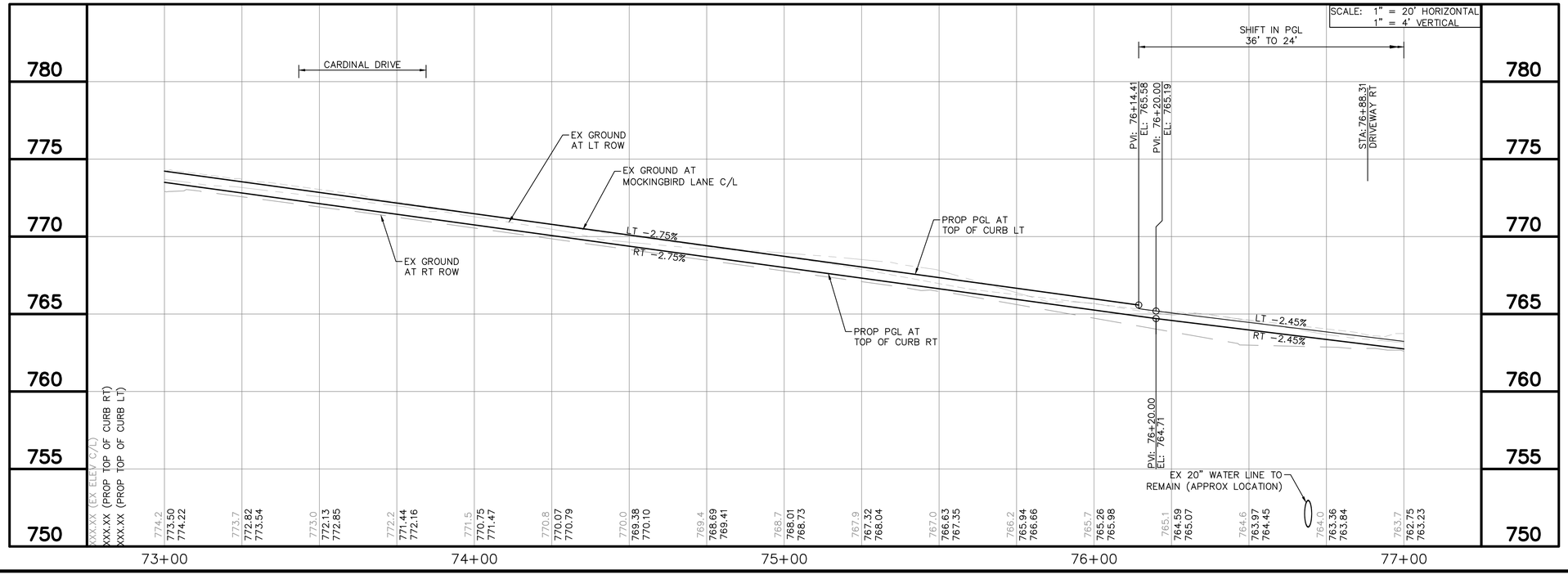


Kimley»Horn

807 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026

STATE OF TEXAS — MISTY D. CHRISTIAN — 98384 — REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN MOCKINGBIRD LANE 2021 BOND PROJECT

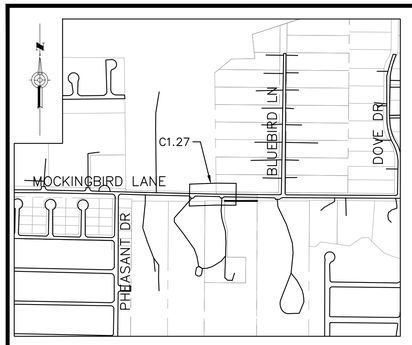
PAVING PLAN AND PROFILE - STA 73+00 TO STA 77+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

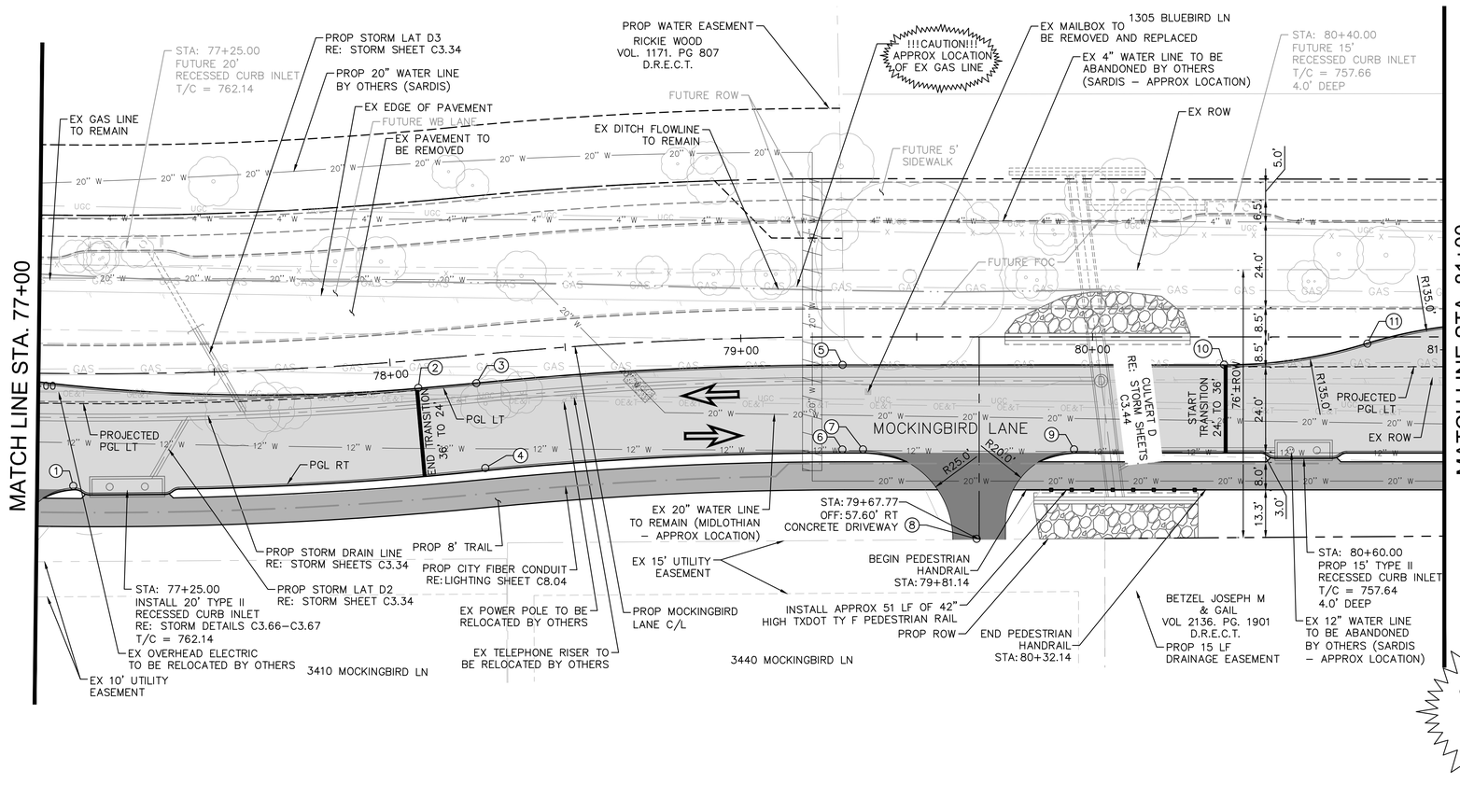
C1.26

Plotted By: 2026-08-21 12:11:07 Ertle, Jett
Last Saved: 2026-08-21 12:09:49 (STA 73+00 TO STA 77+00)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\paving p&p sta 73+00 to sta 97+00.dwg



KEY MAP

POINT TABLE				
No.	STATION	OFFSET	DESC	ELEV
1	77+10.53	32.50' RT	TC–PC	762.49
2	78+07.04	8.50' RT	TC–PT	760.61
3	78+23.29	8.50' RT	TC–PC	760.25
4	78+23.29	32.50' RT	TC–PRC	759.77
5	79+29.45	8.50' RT	TC–PT	758.70
6	79+29.45	32.50' RT	TC–PT	758.22
7	79+35.27	32.50' RT	TC–PC	756.9±
8	79+67.77	57.60' RT	TP–ME	756.94
9	79+95.27	32.50' RT	TC–PT	757.86
10	80+37.83	8.50' RT	TC–PC	758.15
11	80+77.63	2.50' RT	TC–PCC	758.26



GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

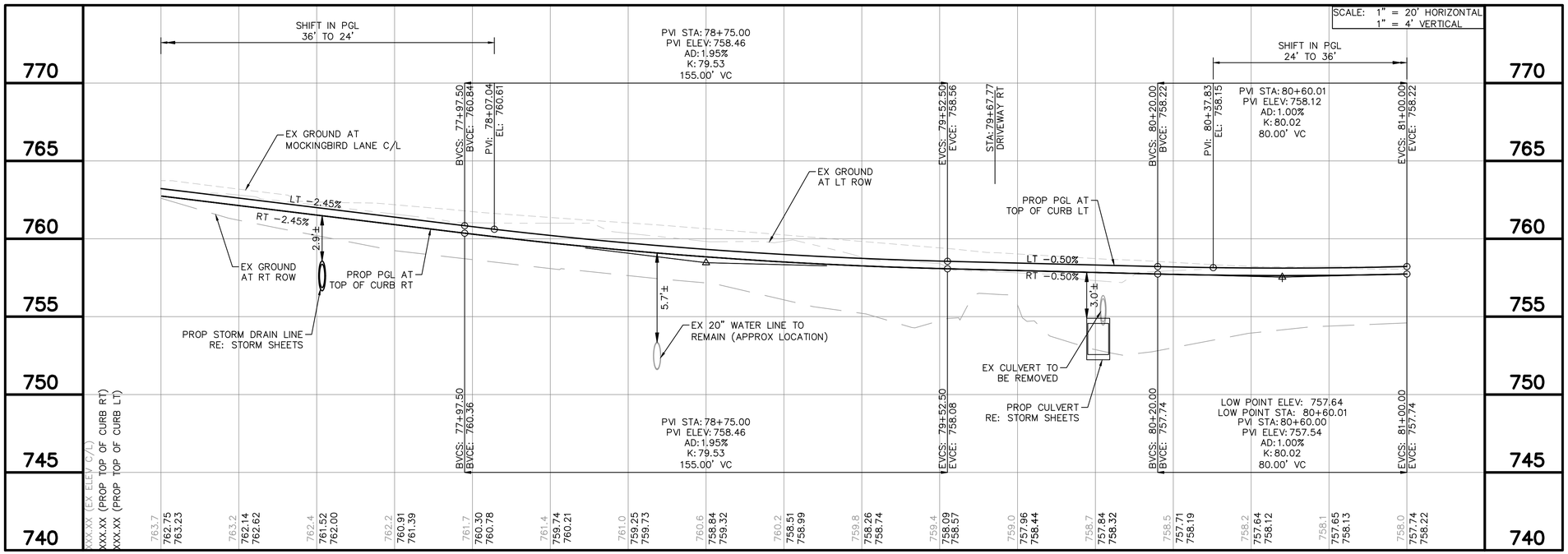
LEGEND

- PROP 8" CONCRETE PAVEMENT
- PROP CONCRETE TRAIL
- PROP CONCRETE DRIVEWAY
- PROP LANE DIRECTION

NOTE:
1. AREA BETWEEN BACK OF INLET AND TRAIL SHALL BE CONCRETE.

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.



Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER

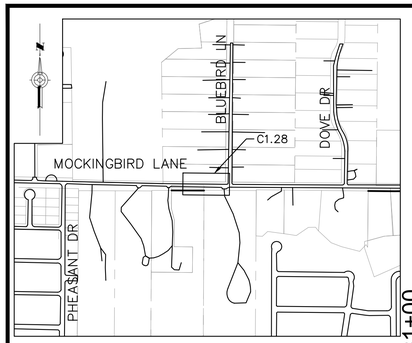
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

PAVING PLAN AND
PROFILE - STA
77+00 TO STA 81+00

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

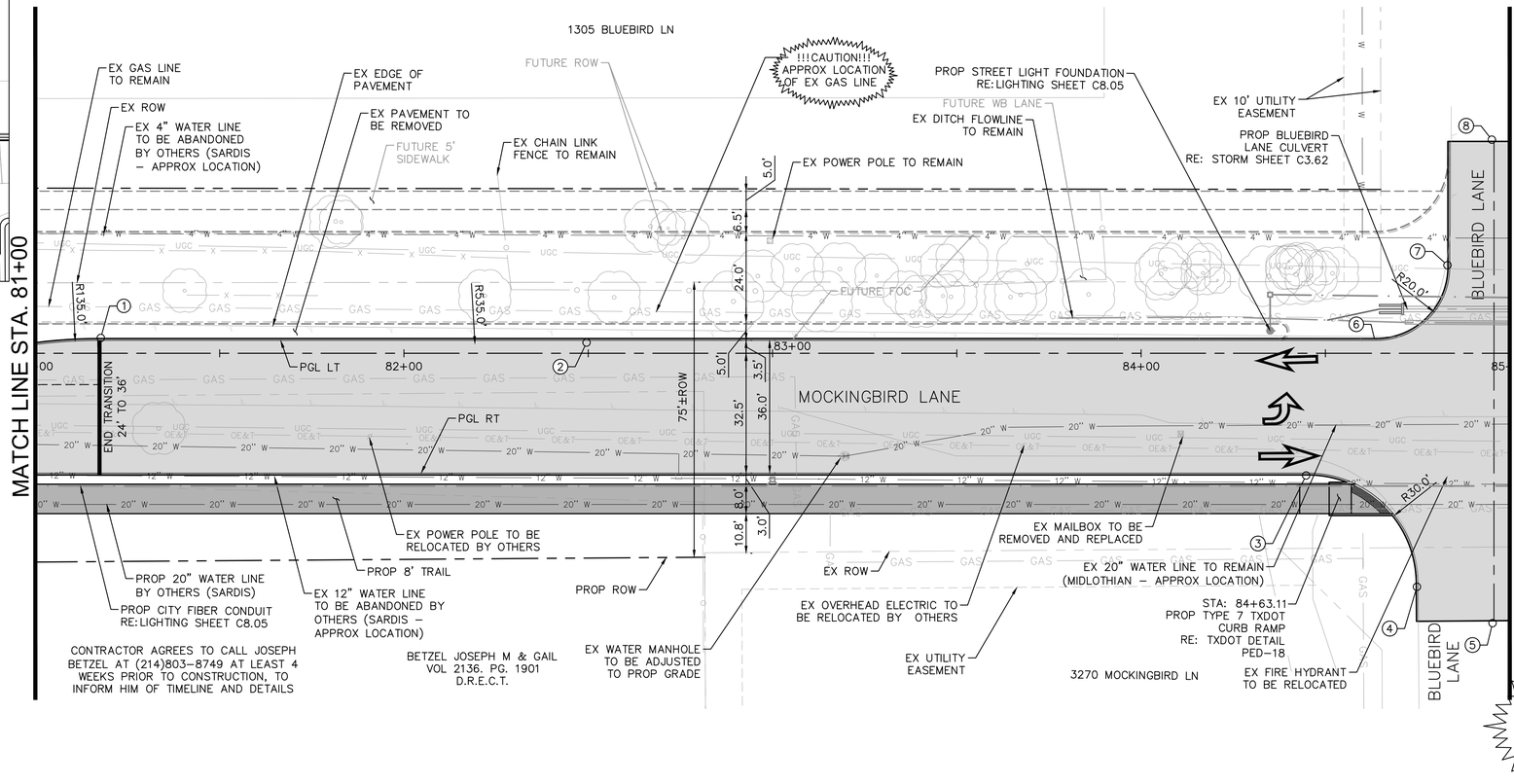
SHEET NUMBER
C1.27

Plotted, By: 2026-08-21 12:13:14, Ertle, Jett
Last Saved: 2026-08-21 12:09:49 (STA 77+00 TO STA 81+00)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\paving p&p sta 73+00 to sta 97+00.dwg



KEY MAP

POINT TABLE				
No.	STATION	OFFSET	DESC	ELEV
1	81+17.43	3.50' LT	TC-PRC	758.55
2	82+50.00	3.50' LT	TC-PT	759.07
3	84+45.12	32.50' RT	TC-PC	755.79
4	84+75.12	62.68' RT	TC-PT	754.45
5	84+95.70	72.56' RT	TP-ME	753.0±
6	84+63.73	3.50' LT	TC-PC	756.19
7	84+83.73	23.50' LT	TC-PT	758.25
8	84+95.73	57.50' LT	TP-ME	758.3±



GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE: 1 inch = 20 ft.

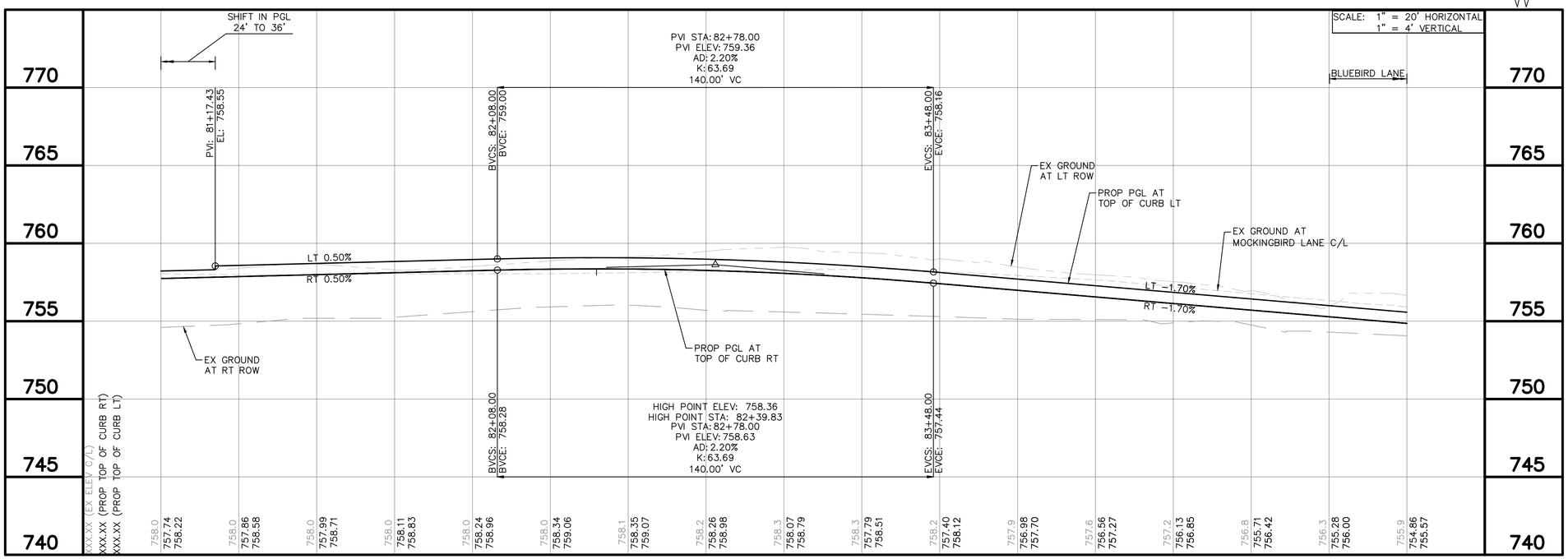
IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 40 FT

LEGEND

- PROP 8" CONCRETE PAVEMENT
- PROP CONCRETE TRAIL
- PROP CONCRETE DRIVEWAY
- PROP LANE DIRECTION

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.



Kimley»Horn

801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026

STATE OF TEXAS — MISTY D. CHRISTIAN — 98384 — REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

PAVING PLAN AND PROFILE - STA 81+00 TO STA 85+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C1.28

Plotted By: 2026-08-21 12:15:24, Ertle, Jett
Last Saved: 2026-08-21 12:09:49 (STA 81+00 TO STA 85+00)
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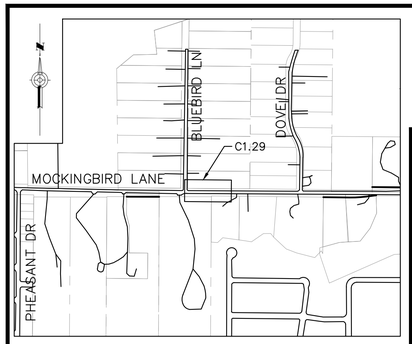
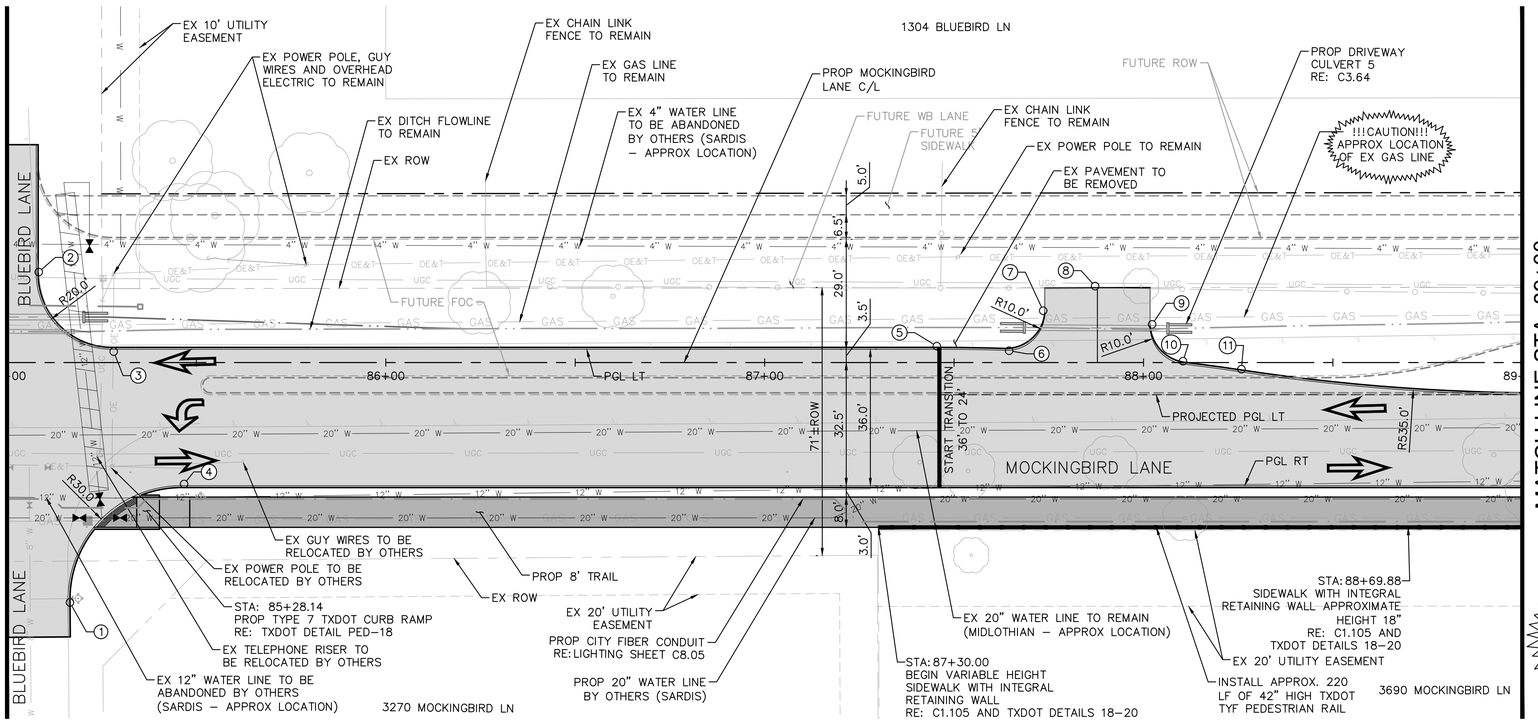


KEY MAP

POINT TABLE				
No.	STATION	OFFSET	DESC	ELEV
1	85+16.13	62.73' RT	TC–PC	753.78
2	85+07.73	23.50' LT	TC–PC	757.85
3	85+27.73	3.50' LT	TC–PT	755.11
4	85+46.13	32.50' RT	TC–PT	754.07
5	87+46.13	4.00' LT	TC–PC	751.90
6	87+63.77	3.21' LT	TC–PRC	751.18
7	87+73.94	13.04' LT	TC–PT	751.32
8	87+87.84	19.72' LT	TP–ME	751.15
9	88+01.74	9.54' LT	TC–PC	750.59
10	88+10.53	0.39' RT	TC–PRC	750.39
11	88+26.03	2.50' RT	TC–PRC	749.92



GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

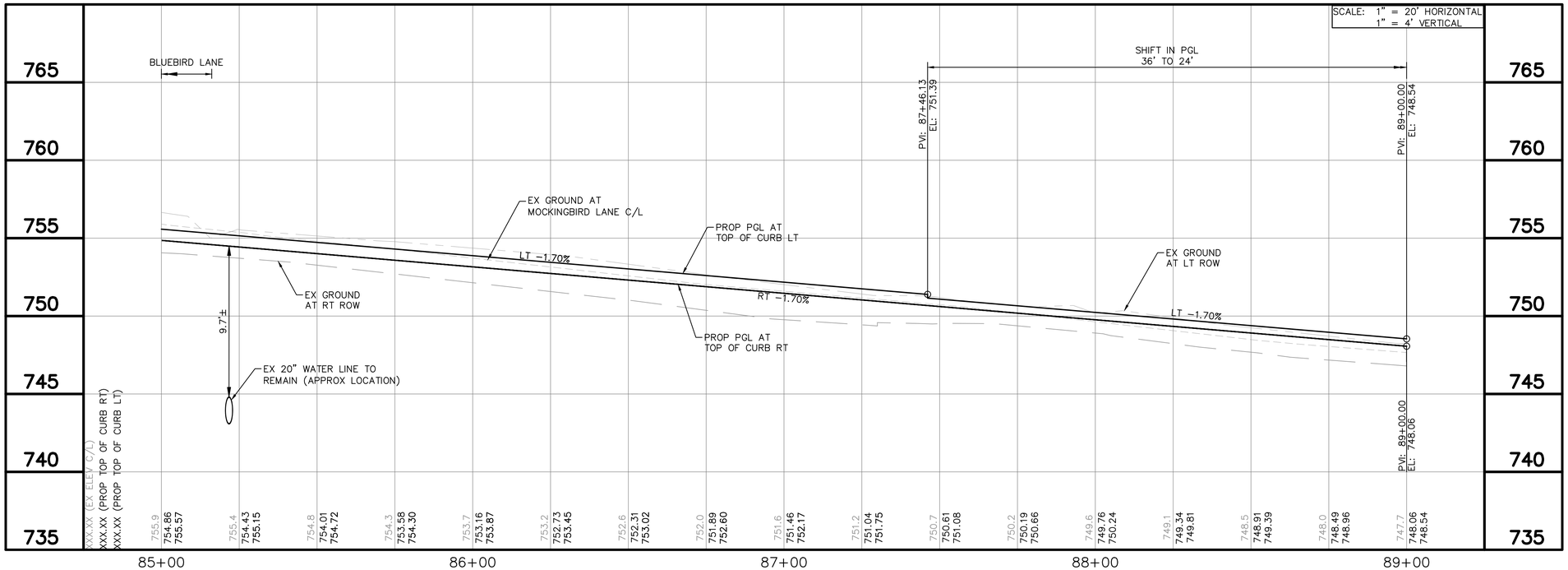
IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

LEGEND

- PROP 8" CONCRETE PAVEMENT
- PROP CONCRETE TRAIL
- PROP CONCRETE DRIVEWAY
- PROP LANE DIRECTION

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.



Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

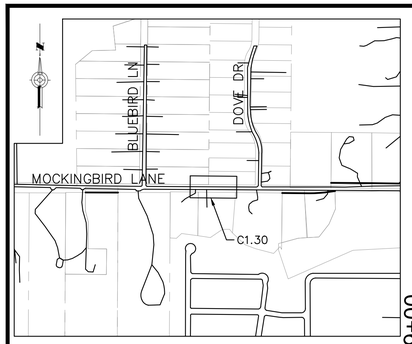
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

PAVING PLAN AND PROFILE - STA 85+00 TO STA 89+00

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

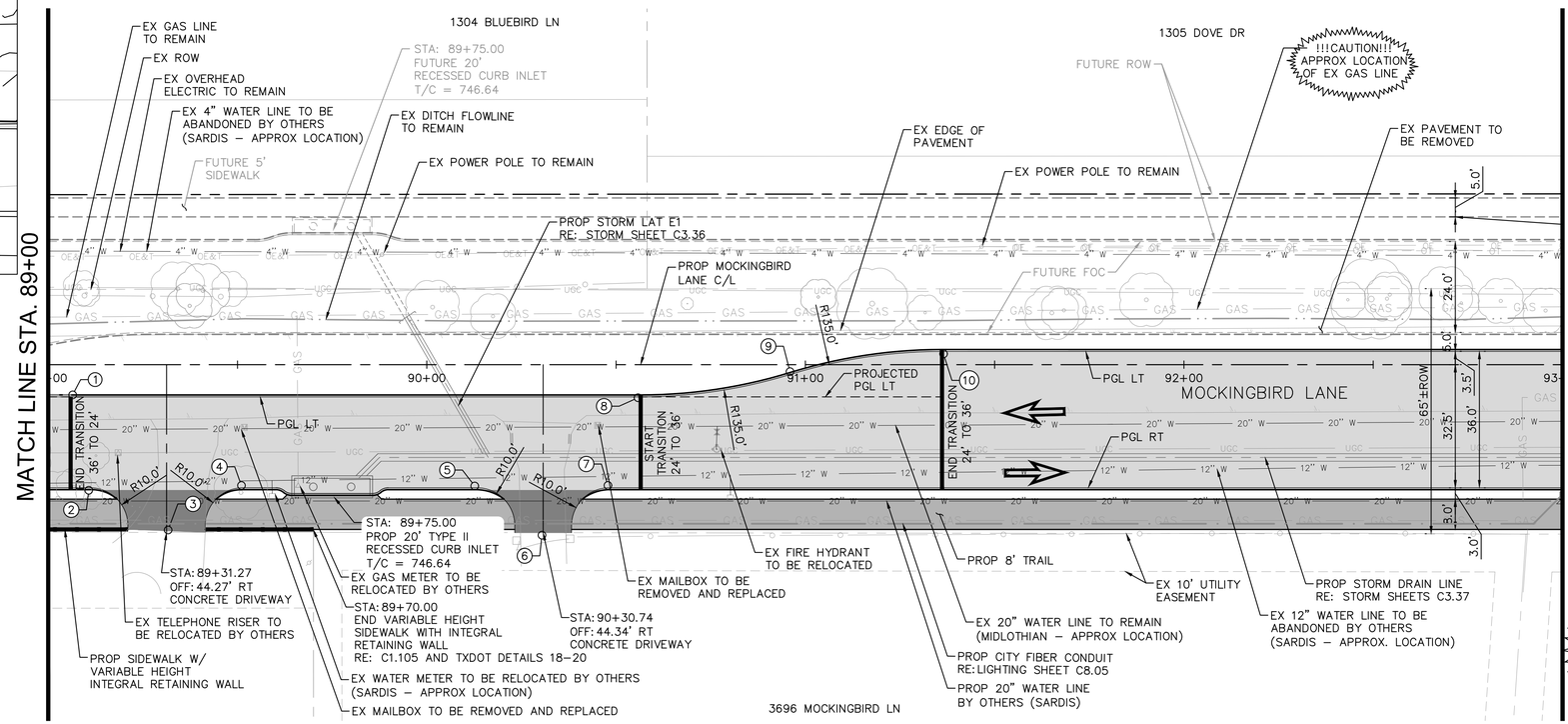
SHEET NUMBER
C1.29

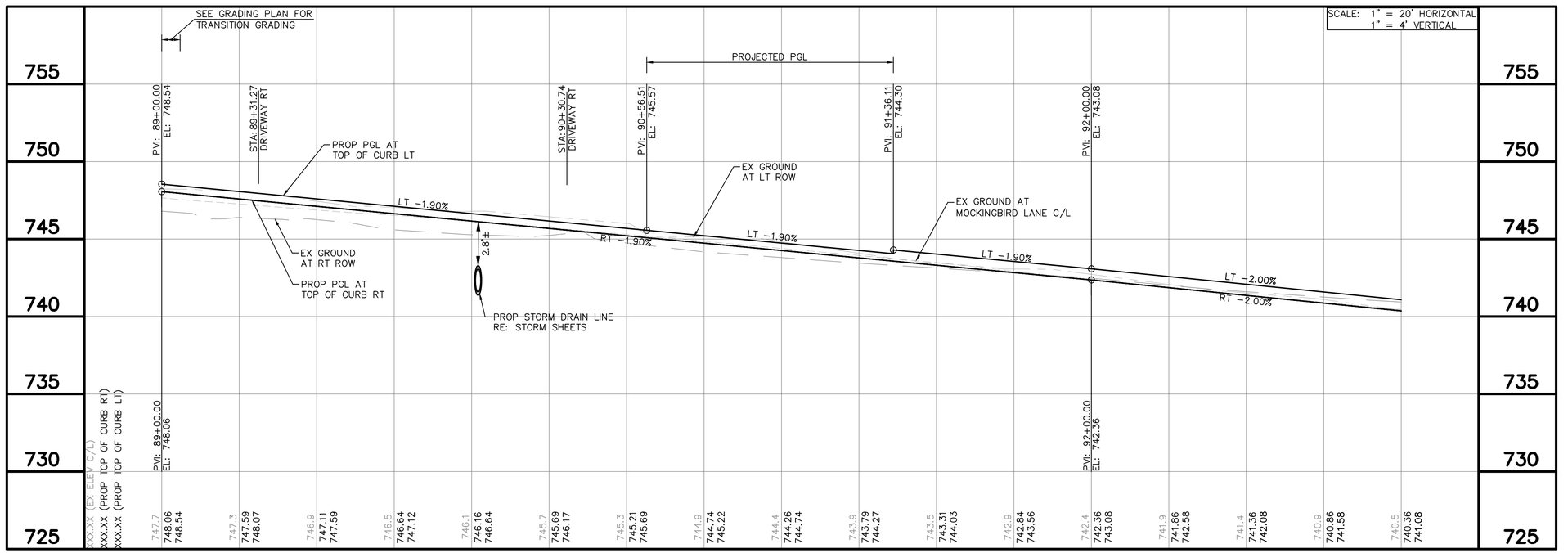
Plotted By: 2026-08-21 12:17:29, Ertle, Jett
Last Saved: 2026-08-21 12:09:49 (STA 85+00 TO STA 89+00)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\paving p&p sta 73+00 to sta 97+00.dwg



KEY MAP

POINT TABLE				
No.	STATION	OFFSET	DESC	ELEV
1	89+05.93	8.50' RT	TC–PT	748.43
2	89+11.04	32.50' RT	TC–PC	747.85
3	89+31.27	44.27' RT	TP–ME	747.0±
4	89+51.49	32.50' RT	TC–PT	747.09
5	90+13.24	32.50' RT	TC–PC	745.91
6	90+30.74	44.34' RT	TP–ME	745.5±
7	90+48.24	32.50' RT	TC–PT	745.25
8	90+56.51	8.50' RT	TC–PC	745.57
9	90+96.31	2.50' RT	TC–PRC	744.93
10	91+36.11	3.50' LT	TC–PT	744.30





GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE: 1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 40 FT

LEGEND

- PROP 8" CONCRETE PAVEMENT
- PROP CONCRETE TRAIL
- PROP CONCRETE DRIVEWAY
- PROP LANE DIRECTION

NOTE:
1. AREA BETWEEN BACK OF INLET AND TRAIL SHALL BE CONCRETE.

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

PAVING PLAN AND PROFILE - STA 89+00 TO STA 93+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C1.30

Plotted, By: 2026-08-21 12:19:32, Ertle, Jett
Last Saved: 2026-08-21 12:09:49 (STA 89+00 TO STA 93+00)
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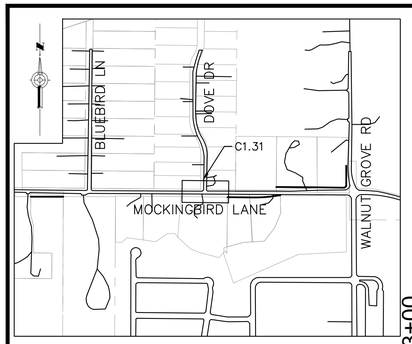
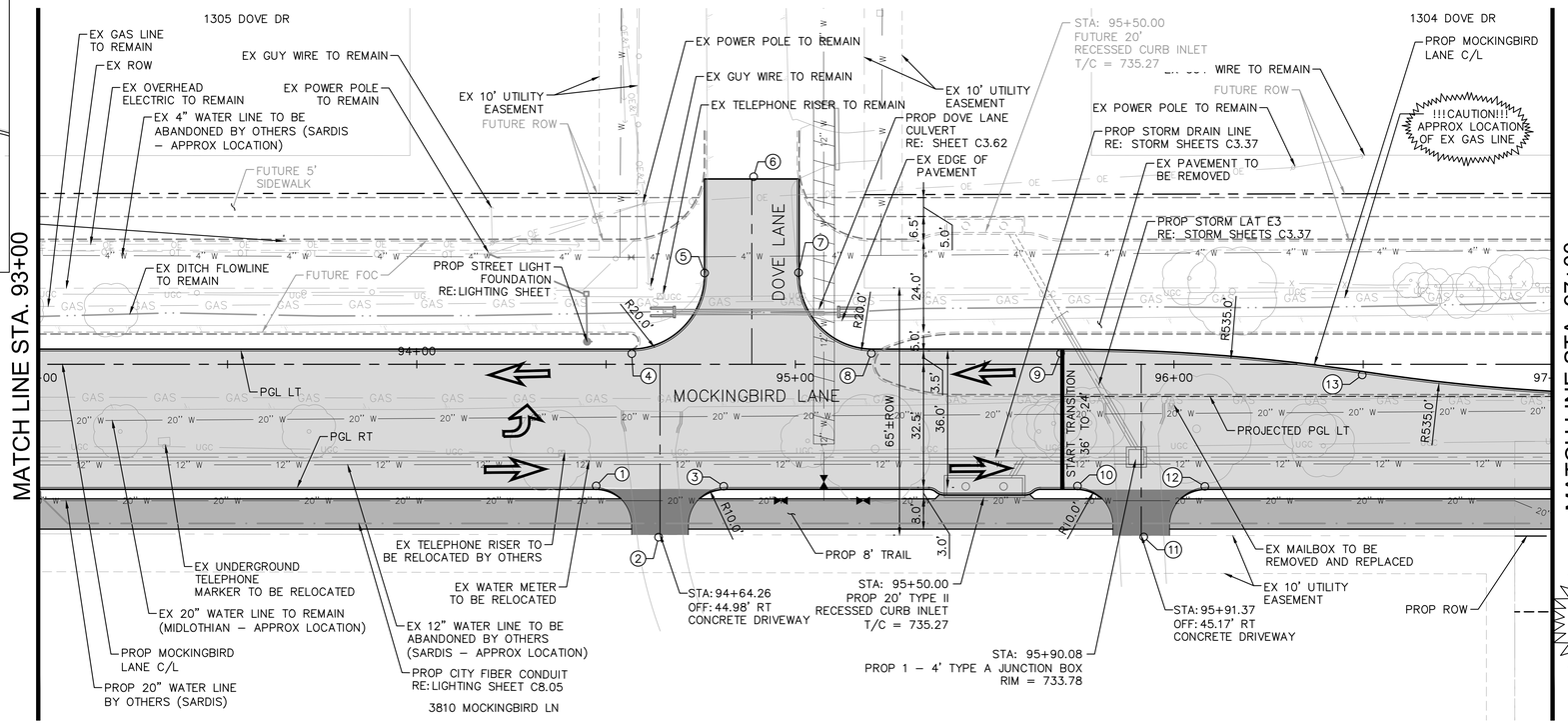
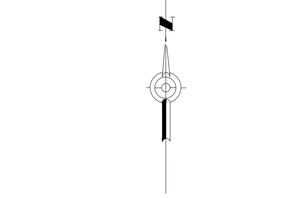
Filename: lane\cadd\sheets\paving p&p sta 73+00 to sta 97+00.dwg



KEY MAP

POINT TABLE				
No.	STATION	OFFSET	DESC	ELEV
1	94+46.76	32.50' RT	TC–PC	737.43
2	94+64.26	44.98' RT	TP–ME	737.5±
3	94+81.76	32.50' RT	TC–PT	736.73
4	94+56.51	3.50' LT	TC–PC	737.95
5	94+76.51	23.50' LT	TC–PT	736.5±
6	94+88.51	48.91' LT	TP–ME	736.6±
7	95+00.51	23.50' LT	TC–PT	736.2±
8	95+20.51	3.50' LT	TC–PT	736.67
9	95+70.51	3.50' LT	TC–PC	735.43
10	95+73.87	32.50' RT	TC–PC	734.61
11	95+91.37	45.17' RT	TP–ME	734.6±
12	96+08.87	32.50' RT	TC–PT	733.49
13	96+50.41	2.50' RT	TC–PRC	732.50





LEGEND

- PROP 8" CONCRETE PAVEMENT
- PROP CONCRETE TRAIL
- PROP CONCRETE DRIVEWAY
- PROP LANE DIRECTION

CAUTION!!

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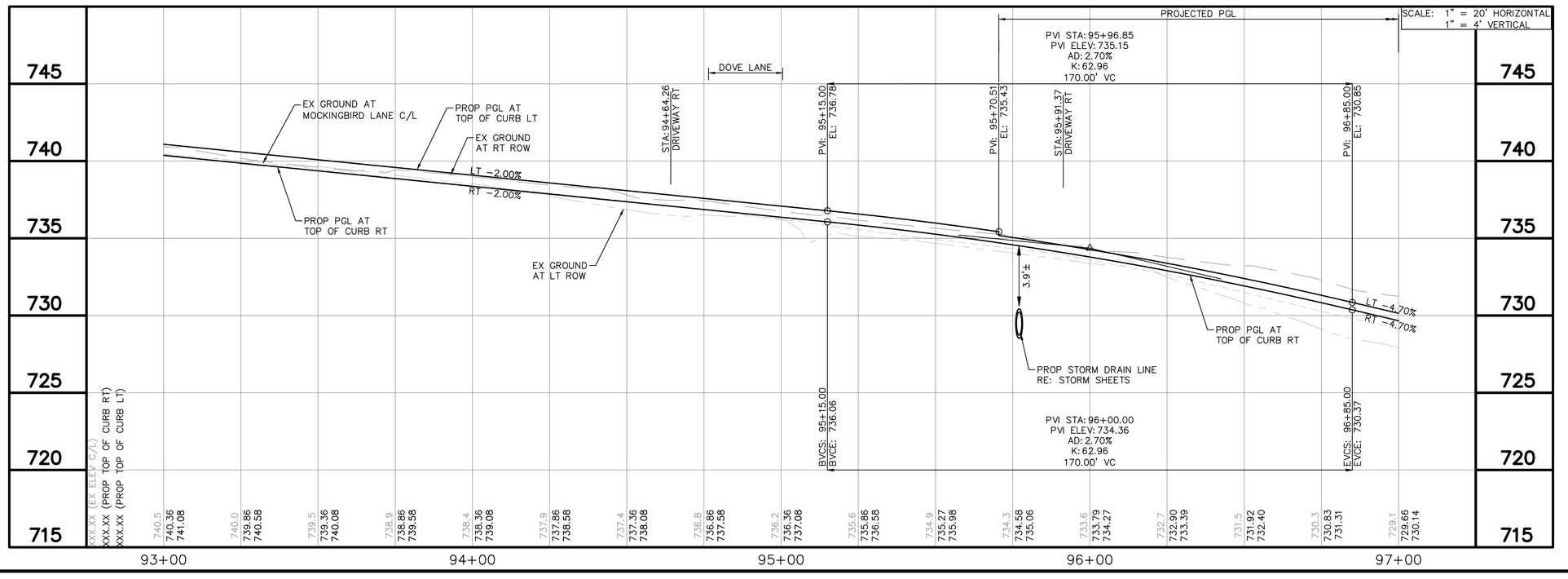
NOTE:
1. AREA BETWEEN BACK OF INLET AND TRAIL SHALL BE CONCRETE.



Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY L. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

PAVING PLAN AND PROFILE - STA 93+00 TO STA 97+00

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C1.31

Plotted By: 2026-08-21 12:21:34, Ertle, Jett
Last Saved: 2026-08-21 12:09:49 (STA 93+00 TO STA 97+00)
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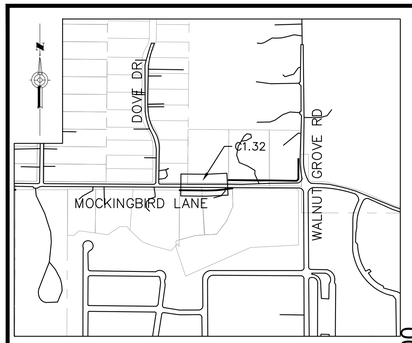
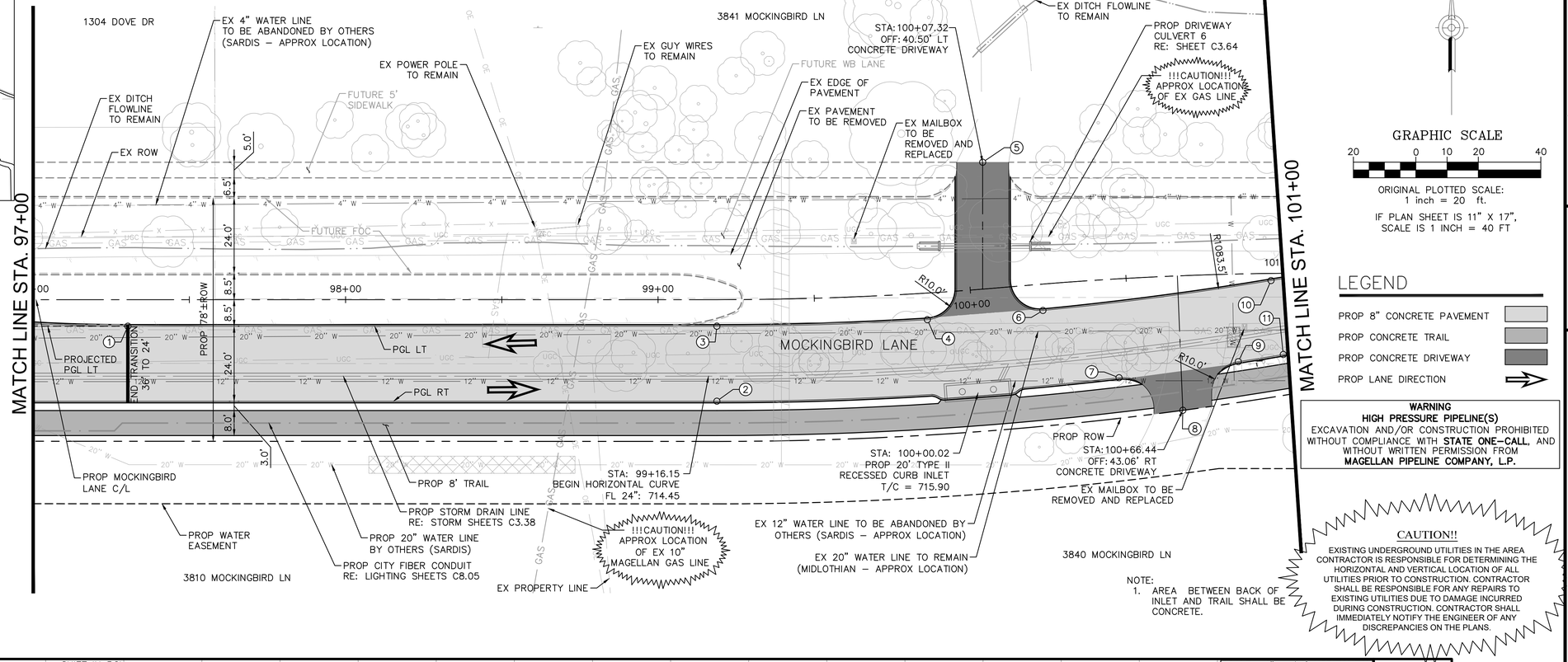
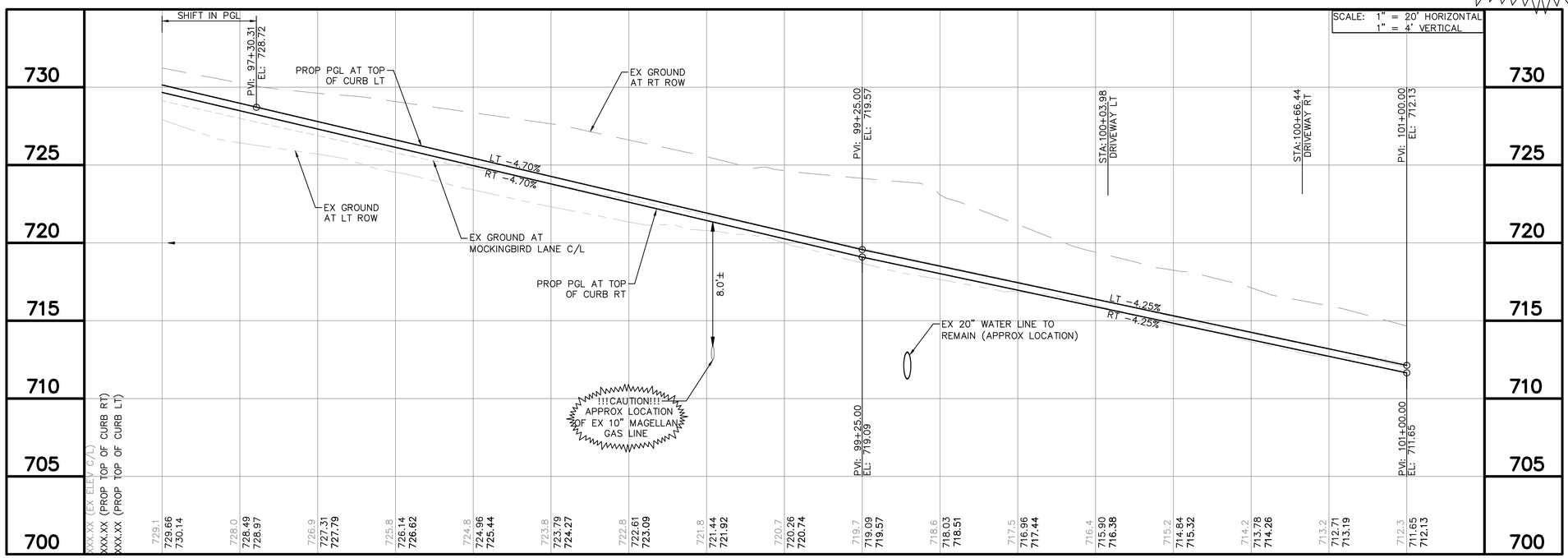
Filename:



KEY MAP

POINT TABLE				
No.	STATION	OFFSET	DESC	ELEV
1	97+30.31	8.50' RT	TC–PT	728.72
2	99+18.81	32.50' RT	TC–PC	719.38
3	99+18.81	8.50' RT	TC–PC	719.86
4	99+85.71	8.50' RT	TC–PCC	716.99
5	100+07.32	40.50' LT	TP–ME	713.8±
6	100+22.64	8.44' RT	TC–PT	715.44
7	100+45.86	31.63' RT	TC–PCC	713.95
8	100+66.44	43.06' RT	TP–ME	714.9±
9	100+85.29	28.08' RT	TC–PT	712.28
10	100+96.39	2.30' RT	TC–PC	712.65
11	101+00.11	26.02' RT	TC–PC	711.65





GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE: 1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 40 FT

LEGEND

- PROP 8" CONCRETE PAVEMENT
- PROP CONCRETE TRAIL
- PROP CONCRETE DRIVEWAY
- PROP LANE DIRECTION

WARNING
HIGH PRESSURE PIPELINE(S)
EXCAVATION AND/OR CONSTRUCTION PROHIBITED WITHOUT COMPLIANCE WITH **STATE ONE–CALL**, AND WITHOUT WRITTEN PERMISSION FROM **MAGELLAN PIPELINE COMPANY, L.P.**

NOTE:
1. AREA BETWEEN BACK OF INLET AND TRAIL SHALL BE CONCRETE.

CAUTION!!
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Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MICKEY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

PAVING PLAN AND PROFILE - STA 97+00 TO STA 101+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C1.32

Plotted By: 2026-08-21 12:22:36, Ertle, Jett
Last Saved: 2026-08-21 10:03:08 (STA 97+00 TO STA 101+00)
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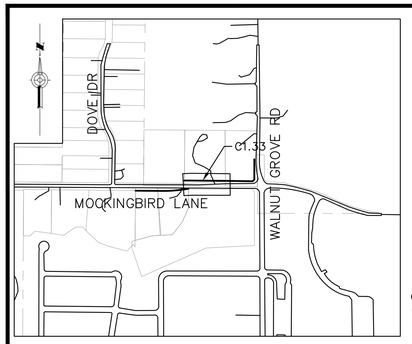
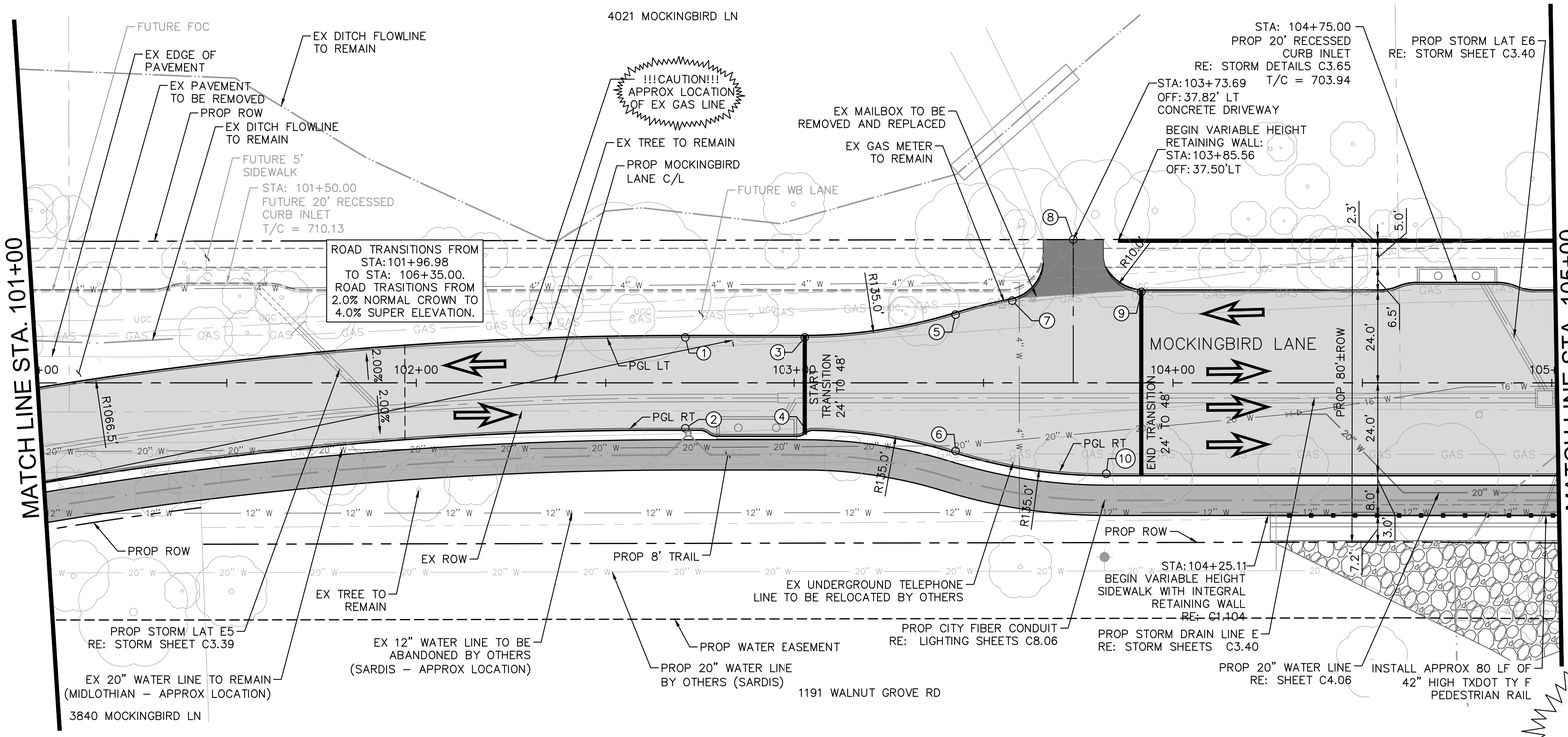
Filename:



KEY MAP

POINT TABLE				
No.	STATION	OFFSET	DESC	ELEV
1	102+71.00	12.00' LT	TC–PT	706.64
2	102+71.00	12.00' RT	TC–PT	706.81
3	103+02.80	12.00' LT	TC–PC	705.97
4	103+02.80	12.00' RT	TC–PC	706.21
5	103+42.60	18.00' LT	TC–PRC	705.16
6	103+42.60	18.00' RT	TC–PRC	705.64
7	103+57.58	21.70' LT	TC–PC	704.79
8	103+73.69	37.82' LT	TP–ME	704.0±
9	103+91.63	24.00' LT	TC–PT	704.30
10	103+82.40	24.00' RT	TC–PT	705.26



GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE: 1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 40 FT

LEGEND

- PROP 8" CONCRETE PAVEMENT
- PROP CONCRETE TRAIL
- PROP CONCRETE DRIVEWAY
- PROP LANE DIRECTION

NOTE:
1. AREA BETWEEN BACK OF INLET AND TRAIL SHALL BE CONCRETE.

CAUTION!!

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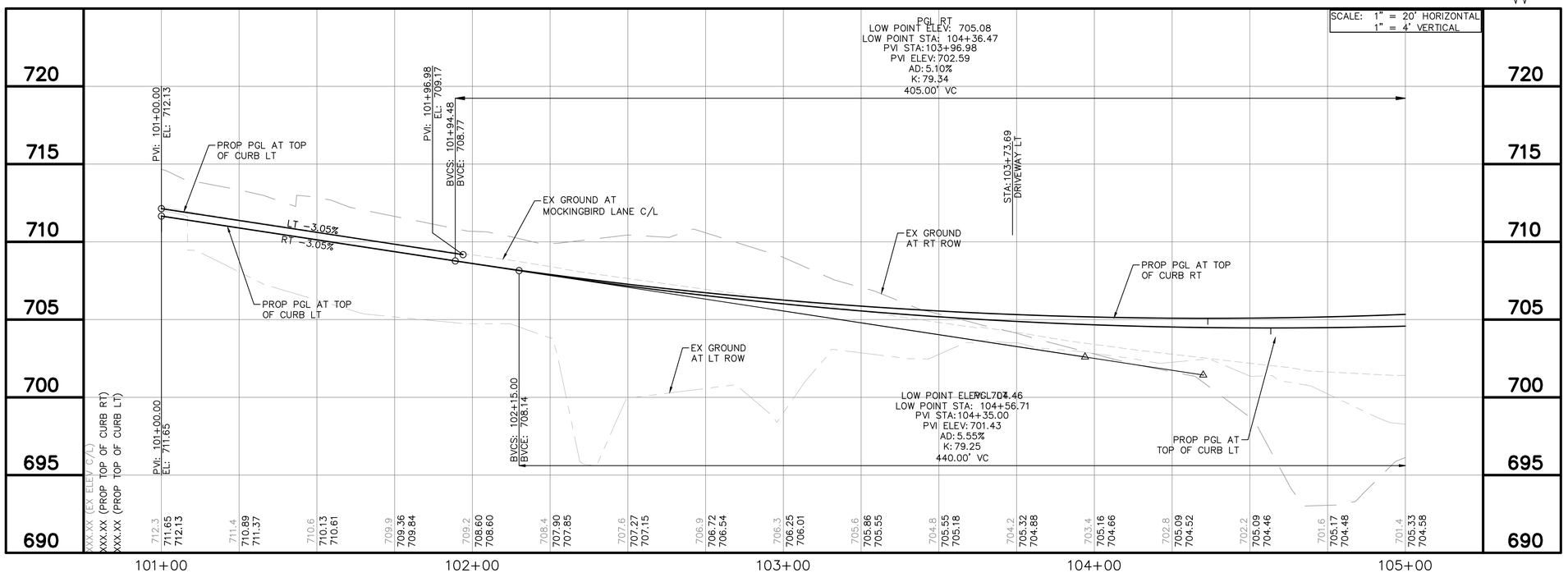


Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

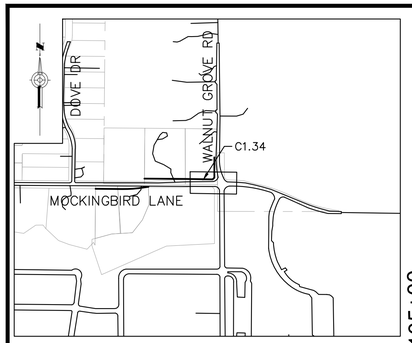
PAVING PLAN AND PROFILE - STA 101+00 TO STA 105+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C1.33

Plotted By: 2026-08-21 13:00:27, Cratty, Austin
Last Saved: 2026-08-21 12:38:22 (STA 101+00 TO STA 105+00)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\paving p&p sta 97+00 to end.dwg



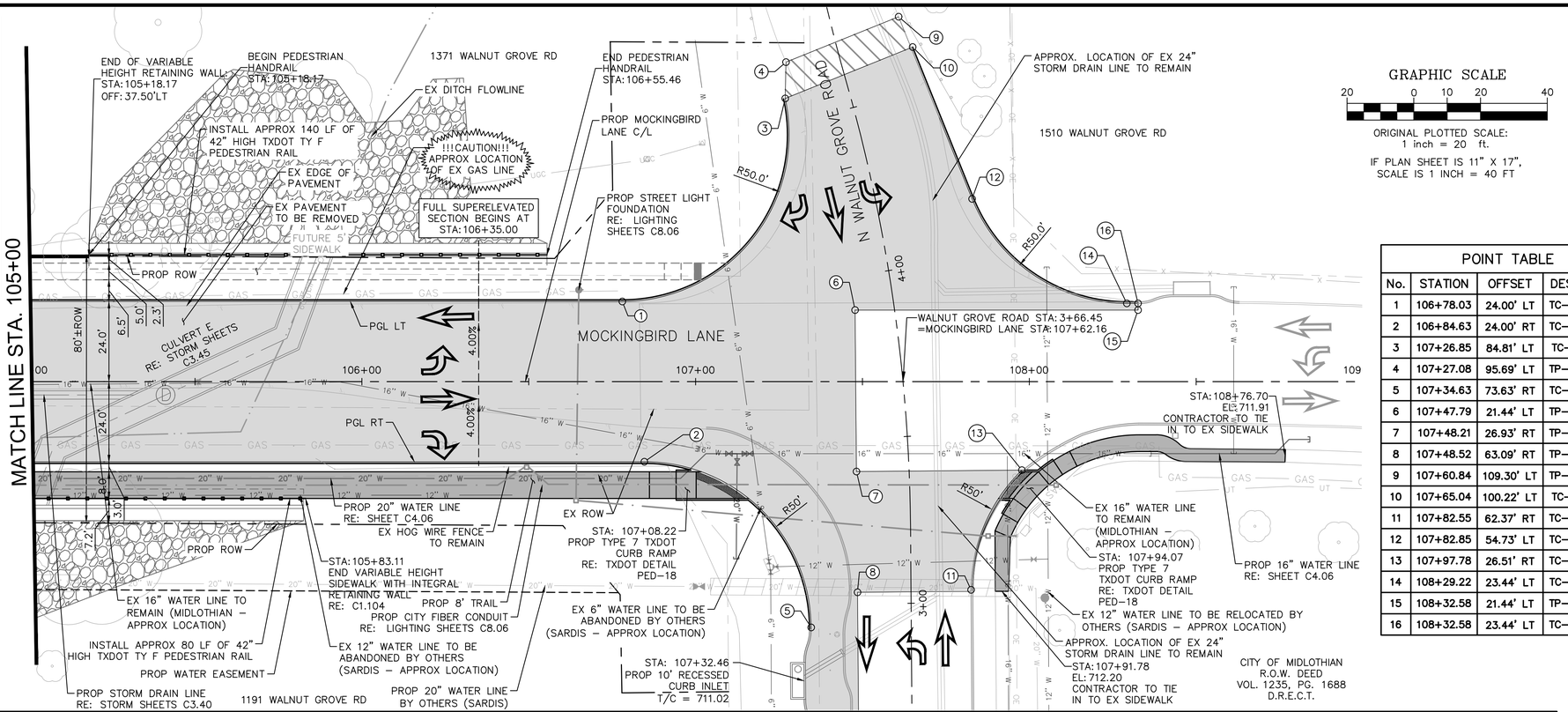
KEY MAP

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

LEGEND

- PROP 8" CONCRETE PAVEMENT
- PROP CONCRETE TRAIL
- PROP CONCRETE DRIVEWAY
- PROP LANE DIRECTION



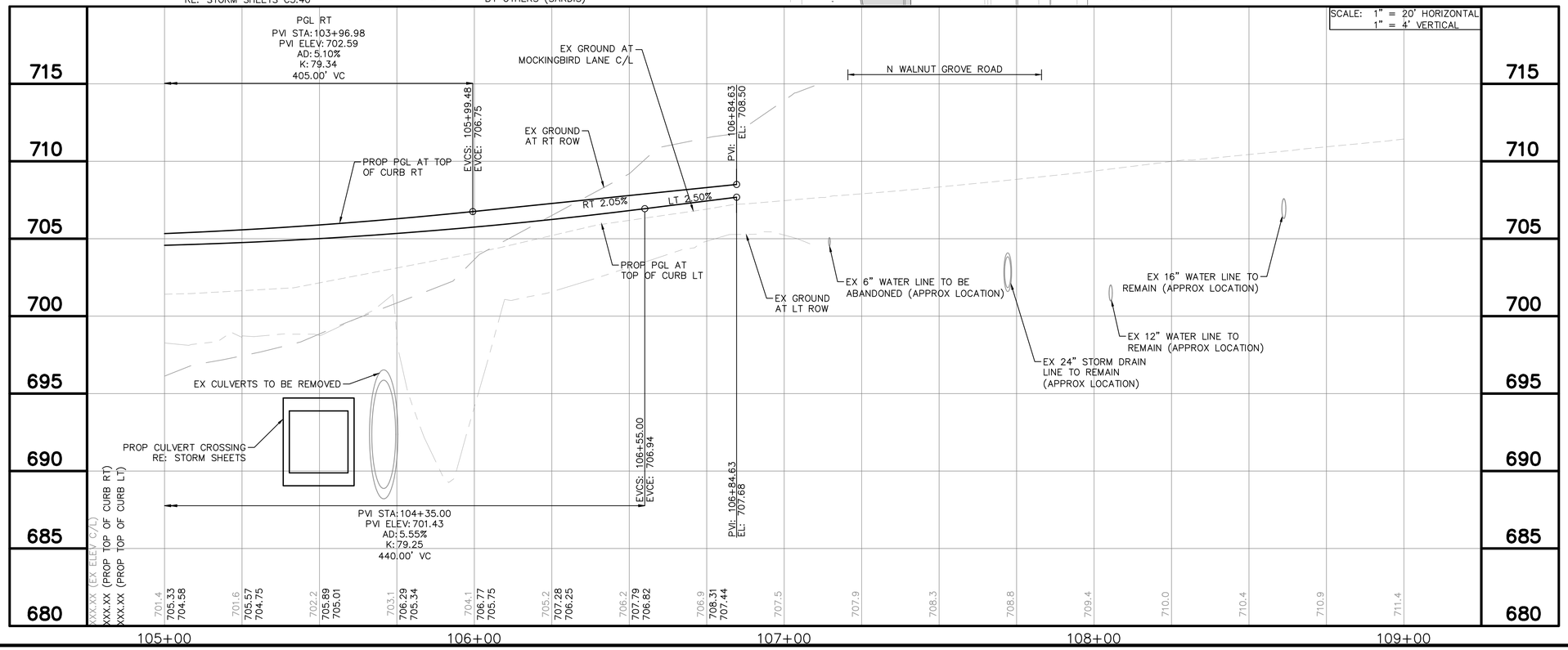
GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE: 1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 40 FT

POINT TABLE				
No.	STATION	OFFSET	DESC	ELEV
1	106+78.03	24.00' LT	TC–PC	706.45
2	106+84.63	24.00' RT	TC–PC	708.50
3	107+26.85	84.81' LT	TC–PI	702.71
4	107+27.08	95.69' LT	TP–ME	701.7±
5	107+34.63	73.63' RT	TC–PT	711.71
6	107+47.79	21.44' LT	TP–ME	701.3±
7	107+48.21	26.93' RT	TP–ME	709.3±
8	107+48.52	63.09' RT	TP–ME	711.1±
9	107+60.84	109.30' LT	TP–ME	702.6±
10	107+65.04	100.22' LT	TC–PI	704.28
11	107+82.55	62.37' RT	TC–ME	712.51
12	107+82.85	54.73' LT	TC–PC	707.23
13	107+97.78	26.51' RT	TC–ME	710.4±
14	108+29.22	23.44' LT	TC–PT	709.63
15	108+32.58	21.44' LT	TP–ME	709.5±
16	108+32.58	23.44' LT	TC–ME	709.91



Kimley»Horn

801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026

STATE OF TEXAS — MISTY L. CHRISTIAN — 98384 — LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

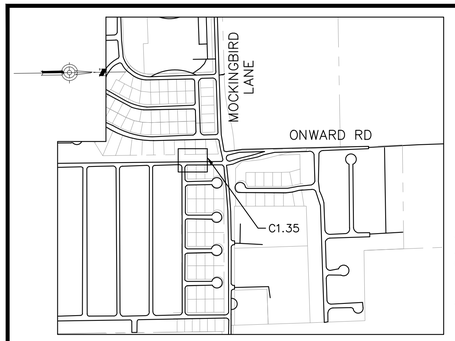
PAVING PLAN AND PROFILE - STA 105+00 TO END

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

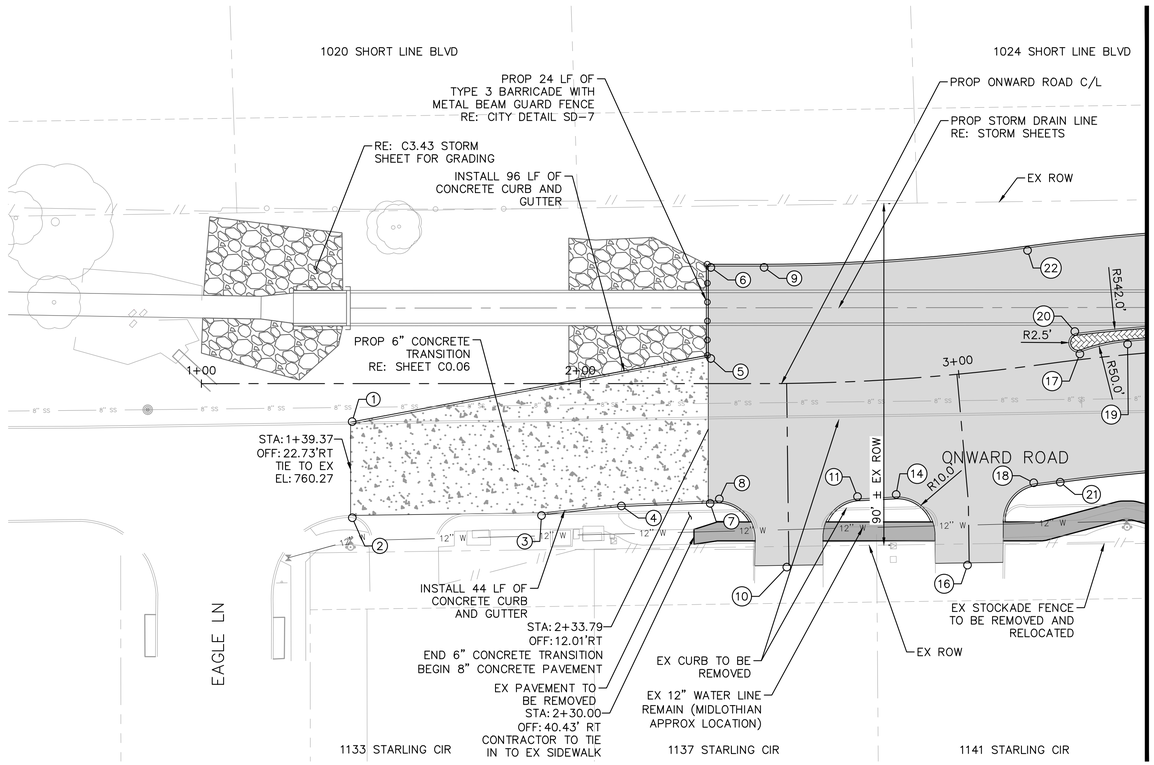
C1.34

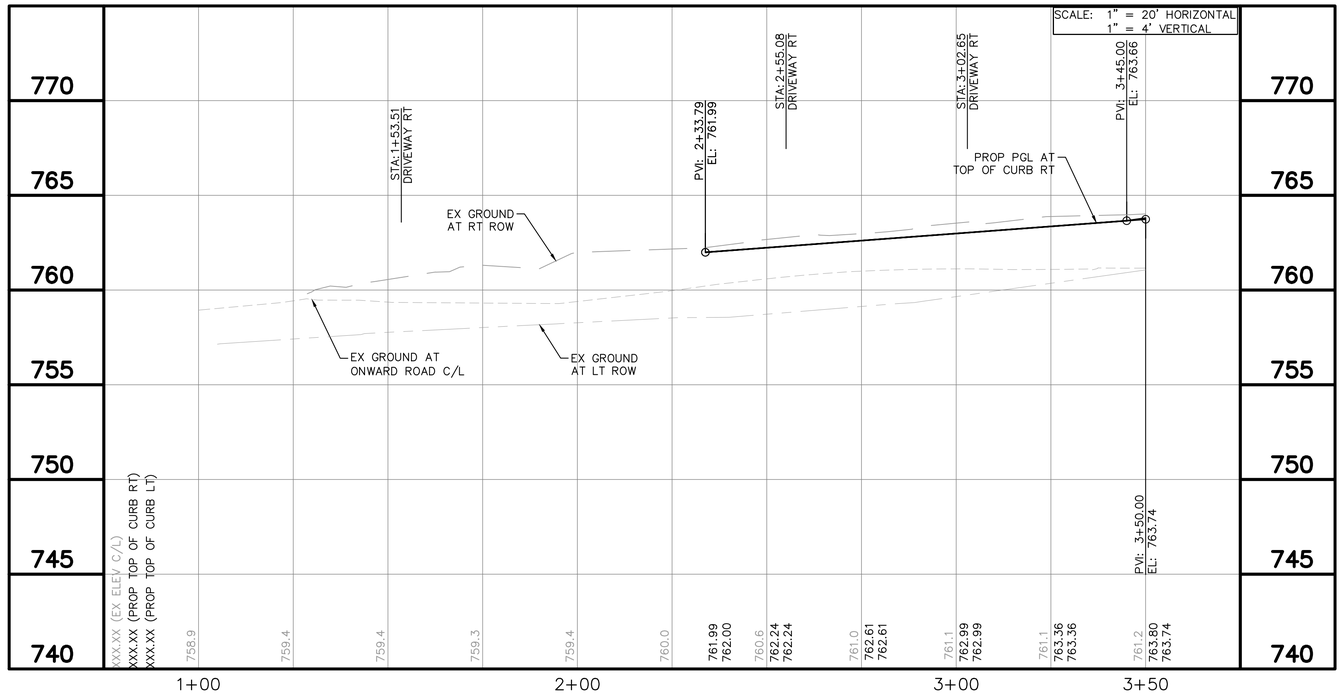
Plotted By: 2026-08-21 13:01:20, Cratty, Austin
Last Saved: 2026-08-21 12:38:22 (STA 105+00 TO STA 109+00)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\paving p&p sta 97+00 to end.dwg



KEY MAP

POINT TABLE				
No.	STATION	OFFSET	DESC	ELEV
1	1+39.37	10.68' RT	TC-ME	760.5±
2	1+39.37	34.79' RT	TC-ME	760.1±
3	1+90.00	34.10' RT	TP-ME	761.0±
4	2+10.17	31.95' RT	TC-PI	761.25
5	2+33.79	7.00' LT	TC-PI	762.47
6	2+33.79	31.00' LT	TC-PT	762.05
7	2+33.82	31.00' RT	TC-PI	761.99
8	2+36.17	31.00' RT	TC-PC	762.03
9	2+47.82	31.00' LT	TC-PC	762.20
10	2+54.50	48.00' RT	TP-ME	763.3±
11	2+72.24	31.00' RT	TC-PT	762.57
14	2+81.13	31.00' RT	TC-PC	762.70
16	2+98.13	49.84' RT	TP-ME	764.55
17	3+32.83	2.06' LT	TC-PCC	764.37
18	3+16.67	31.00' RT	TC-PT	763.24
19	3+45.25	3.50' LT	TC-PRC	764.0±
20	3+32.27	7.00' LT	TC-PCC	764.34
21	3+22.05	31.00' RT	TC-PC	763.32
22	3+22.05	31.00' LT	TC-PRC	763.32





GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

LEGEND

- PROP 8" CONCRETE PAVEMENT
- PROP 6" CONCRETE PAVEMENT
- PROP CONCRETE TRAIL
- PROP STAMPED CONCRETE

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

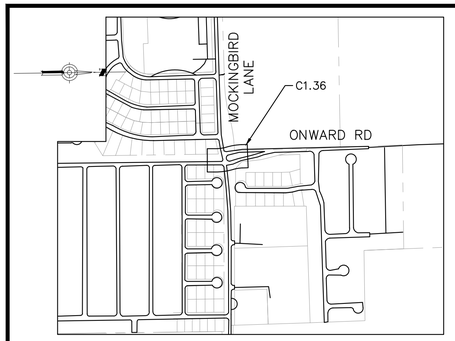
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

ONWARD ROAD
PAVING PLAN AND
PROFILE BEGIN TO
STA 4+25

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

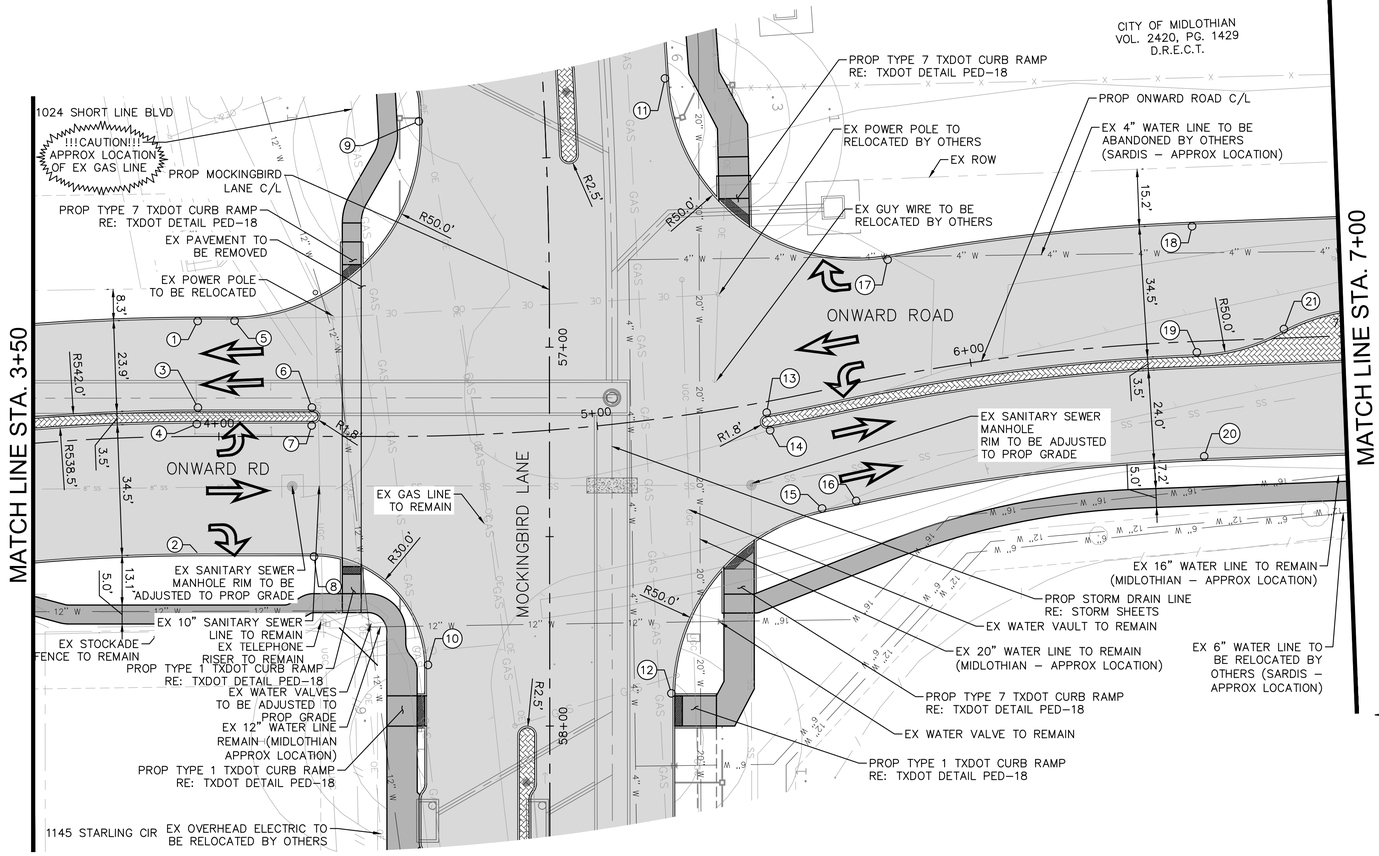
SHEET NUMBER
C1.35

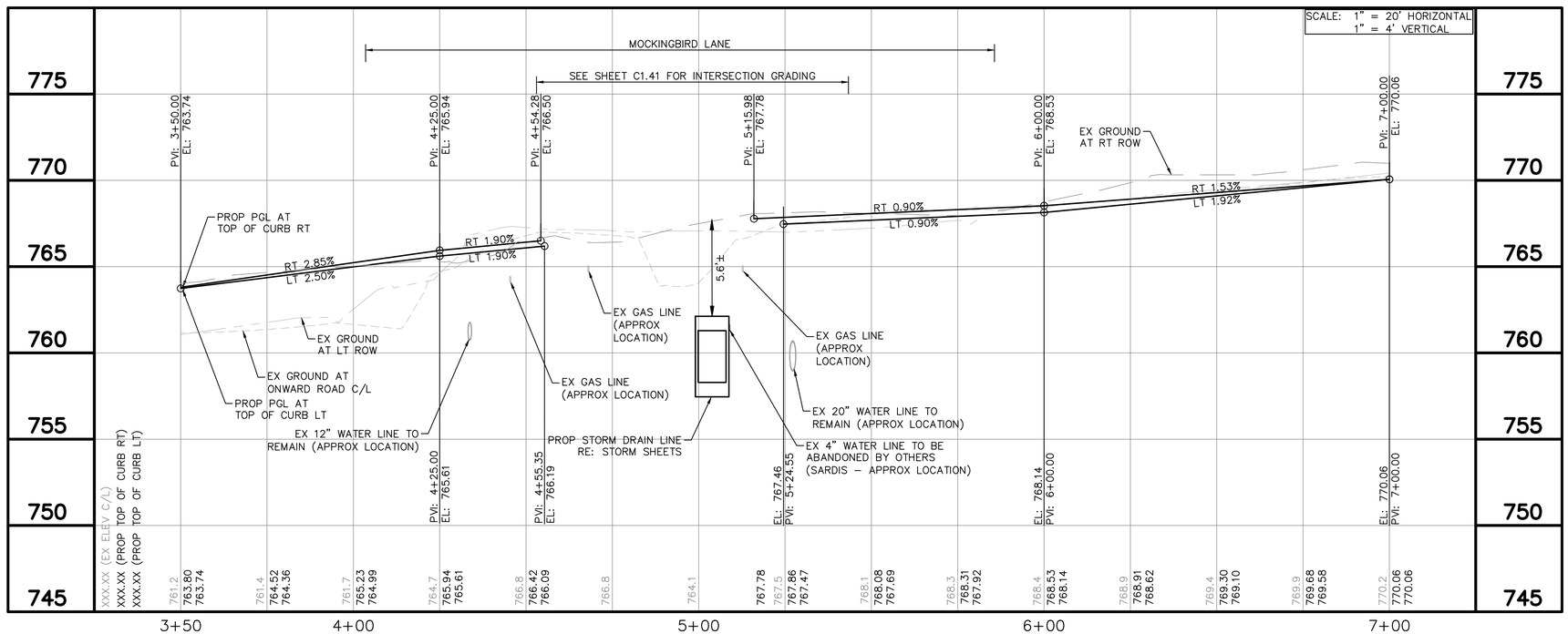
Plotted, By: 2026-08-21 12:24:57, Ertle, Jett
Last Saved: 2026-08-21 09:19:19 (BEGIN TO STA 3+50)
k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\paving p&p onward rd.dwg
Filename:

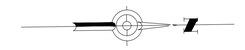


KEY MAP

POINT TABLE				
No.	STATION	OFFSET	DESC	ELEV
1	3+94.91	31.00' LT	TC–PT	764.86
2	3+94.91	31.00' RT	TC–PT	765.08
3	3+94.91	7.00' LT	TC–PT	765.50
4	3+94.91	3.50' LT	TC–PT	765.46
5	4+03.56	31.00' LT	TC–PC	765.08
6	4+24.94	7.00' LT	TC–PT	765.73
7	4+24.93	3.50' LT	TC–PC	765.77
8	4+24.84	31.00' RT	TC–PC	765.94
9	4+55.06	83.37' LT	TC–PT	765.94
10	4+53.84	61.06' RT	TC–PT	766.65
11	5+32.80	89.28' LT	TC–PC	???
12	5+11.15	73.01' RT	TC–PC	767.99
13	5+44.26	3.50' RT	TC–PT	767.84
14	5+44.26	7.00' RT	TC–PC	767.90
15	5+54.41	31.00' RT	TC–PT	768.12
16	5+63.03	31.00' RT	TC–PC	768.20
17	5+83.71	31.00' LT	TC–PRC	768.00
18	6+60.33	31.00' LT	TC–PT	769.30
19	6+60.33	3.50' RT	TC–PC	770.28
20	6+60.33	31.00' RT	TC–PT	769.45
21	6+82.63	1.75' LT	TC–PRC	770.74







GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE: 1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 40 FT

LEGEND

- PROP 8" CONCRETE PAVEMENT
- PROP CONCRETE TRAIL
- PROP CONCRETE DRIVEWAY
- PROP STAMPED CONCRETE

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN MOCKINGBIRD LANE 2021 BOND PROJECT

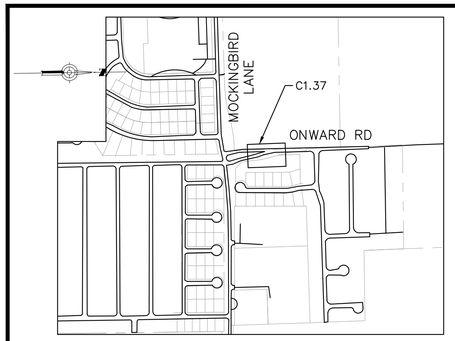
ONWARD ROAD PAVING PLAN AND PROFILE STA4+50 TO STA 5+25

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER

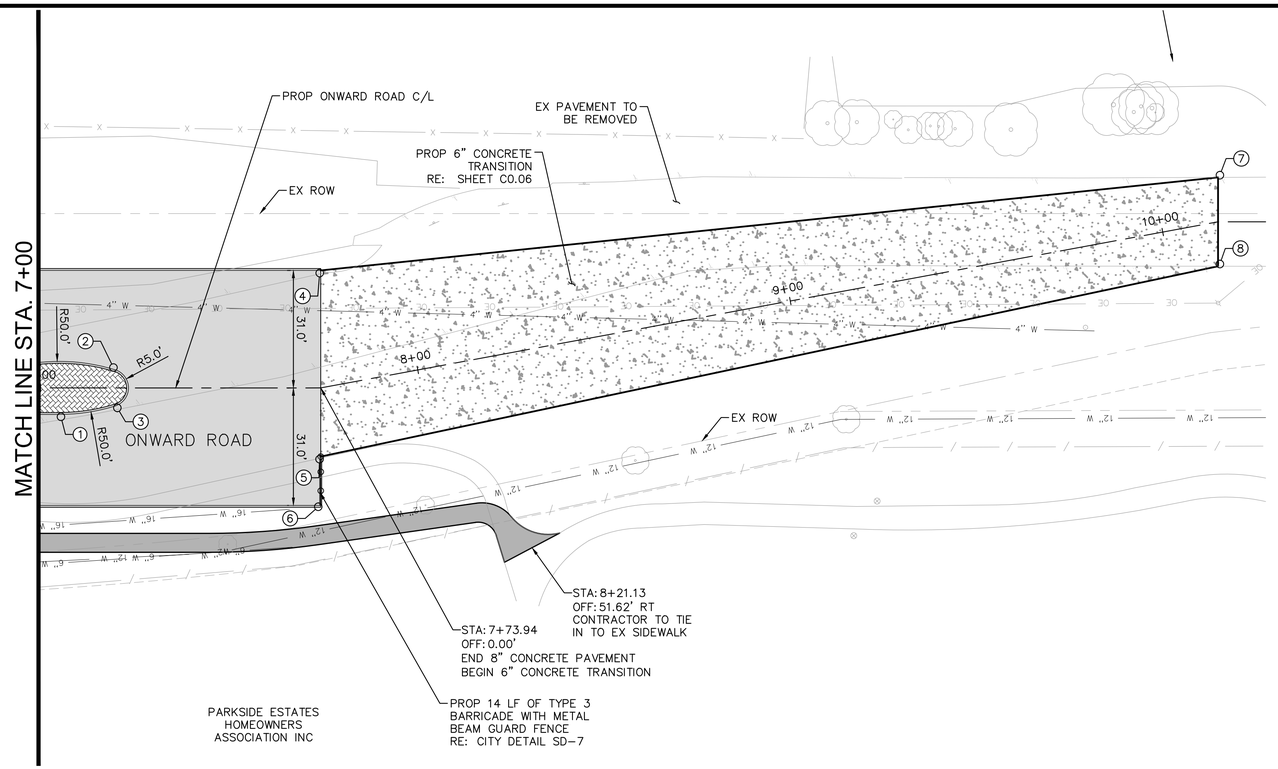
C1.36

Plotted, By: 2026-08-21 12:25:27, Ertle, Jett
Last Saved: 2026-08-21 09:19:19 (STA 3+50 TO STA 7+00)
k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\paving p&p onward rd.dwg
Filename: lane\cadd\sheets\paving p&p onward rd.dwg



KEY MAP

POINT TABLE				
No.	STATION	OFFSET	DESC	ELEV
1	7+04.94	7.00' RT	TC–PC	771.14
2	7+19.68	4.78' LT	TC–PC	771.48
3	7+19.68	4.78' RT	TC–PT	771.48
4	7+79.58	30.48' LT	TC–PI	771.54
5	7+73.94	18.12' RT	TC–PI	771.80
6	7+73.94	31.00' RT	TC–PT	771.54
7	10+14.84	11.73' LT	TP–ME	778.7±
8	10+12.71	11.53' RT	TP–ME	778.5±



GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

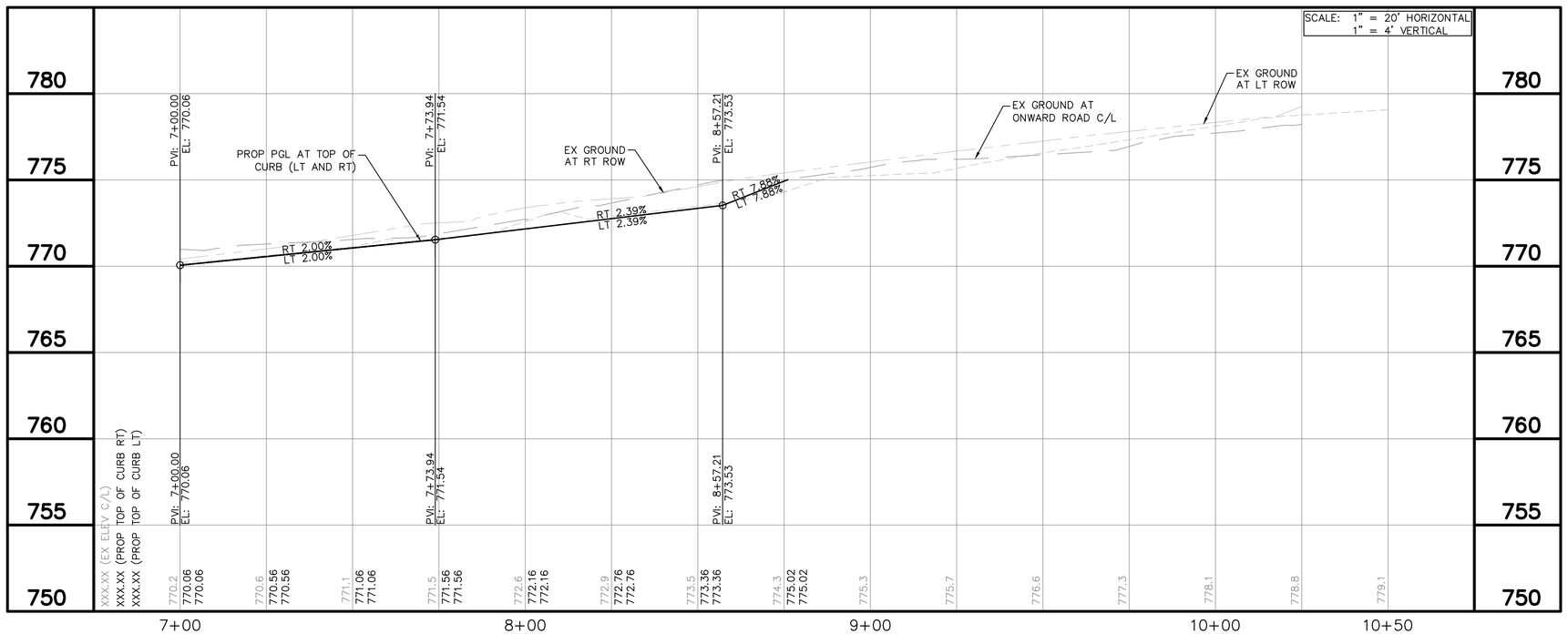
IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

LEGEND

- PROP 8" CONCRETE PAVEMENT
- PROP 6" CONCRETE PAVEMENT
- PROP CONCRETE TRAIL
- PROP STAMPED CONCRETE

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.



Kimley»Horn

801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026

STATE OF TEXAS — MISTY D. CHRISTIAN — 98384 — REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

ONWARD ROAD
PAVING PLAN AND
PROFILE STA 7+50
TO STA END

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C1.37

Plotted By: 2026-08-21 12:25:57, Ertle, Jett
Last Saved: 2026-08-21 09:19:19 (STA 7+50 TO STA END)
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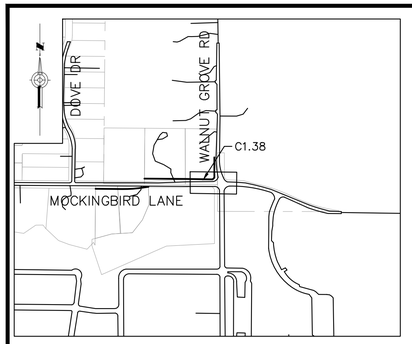
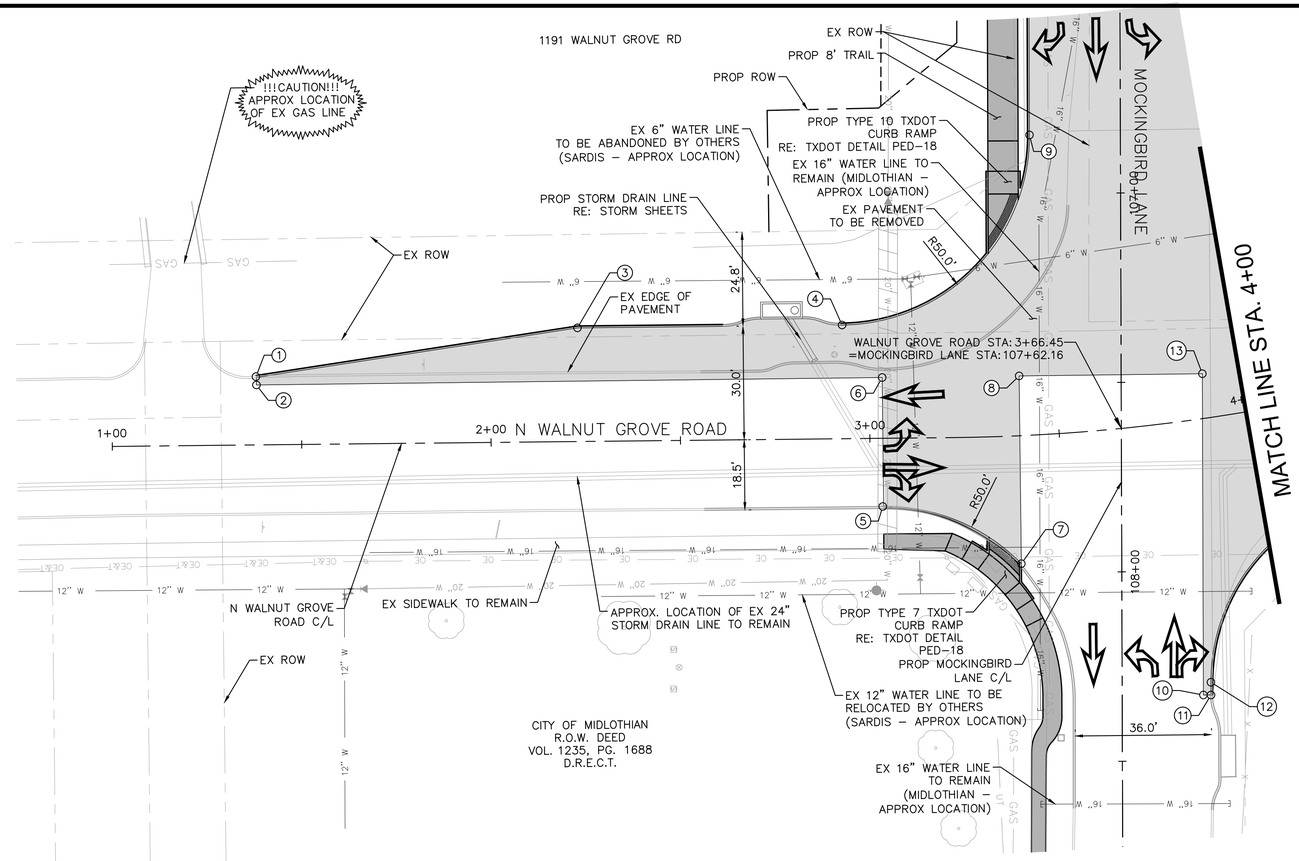
Filename:

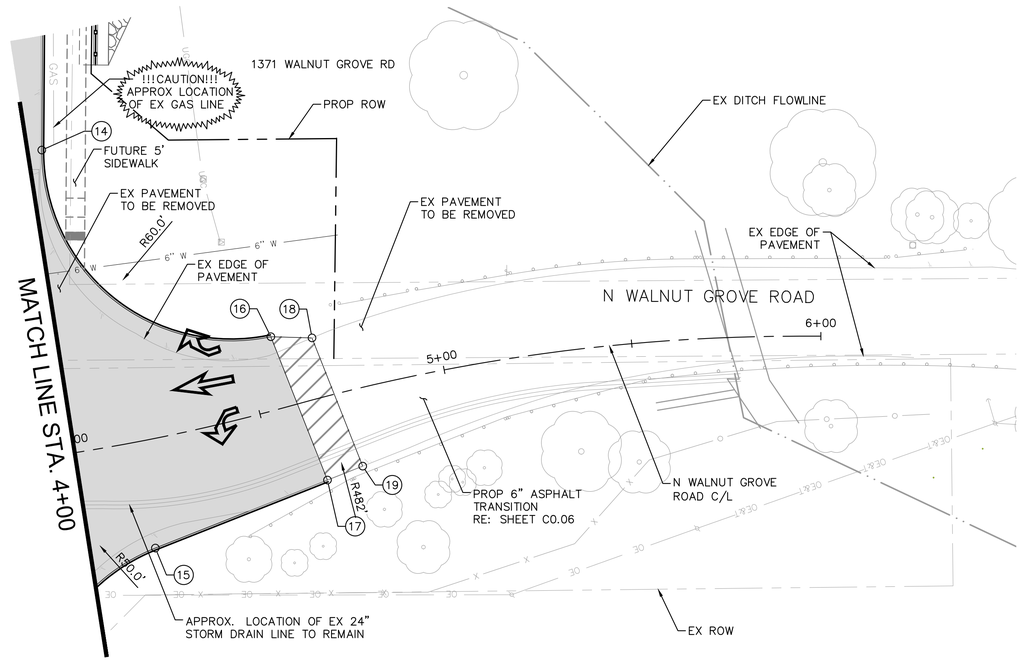


KEY MAP

POINT TABLE

No.	STATION	OFFSET	DESC	ELEV
1	1+38.11	18.00' LT	TC–ME	717.3±
2	1+38.21	15.82' LT	TP–ME	717.29
3	2+23.11	30.00' LT	TC–PI	713.92
4	2+92.96	30.00' LT	TC–PC	711.71
5	3+03.19	18.00' RT	TC–ME	717.4±
6	3+03.40	16.04' LT	TP–ME	711.60
7	3+38.54	33.77' RT	TC–ME	???
8	3+40.13	15.78' LT	TP–ME	709.77





POINT TABLE

No.	STATION	OFFSET	DESC	ELEV
14	4+04.49	80.24' LT	TC–PC	706.45
15	4+16.22	28.43' RT	TC–PT	698.91
16	4+58.22	18.99' LT	TC–PI	698.92
17	4+62.64	21.45' RT	TC–PI	698.3±
18	4+68.31	15.87' LT	TP–ME	699.0±
19	4+72.99	20.23' RT	TP–ME	698.9±
				698.9±

REFER TO SHEET C1.42
FOR INTERSECTION GRADING

GRAPHIC SCALE
20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

LEGEND

- PROP 8" CONCRETE PAVEMENT
- PROP CONCRETE SIDEWALK
- PROP ASPHALT

CAUTION!!

EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

Kimley»Horn
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No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

N WALNUT GROVE ROAD PAVING PLAN

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C1.38

Plotted, By: 2026-08-21 12:31:30, Ertle, Jett
Last Saved: 2026-08-21 09:05:56 (STA 4+00 TO END)
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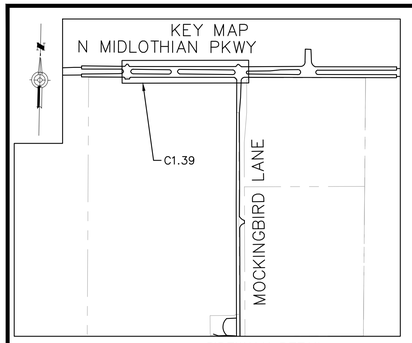
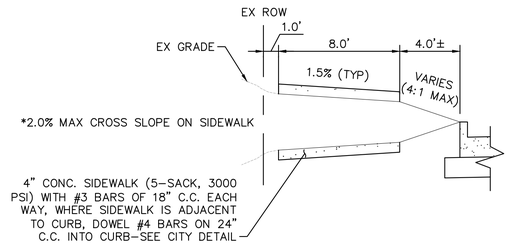
Filename:



SIDEWALK DETAIL



LEGEND

PROPOSED ALTERNATE BID #1 SIDEWALK

NOTES:
1. THE EXACT LOCATION OF THE SIDEWALK TO BE DETERMINED IN THE FIELD.
2. THE SIDEWALK SHALL BE ADJUSTED TO AVOID POTENTIAL CONFLICTS AND SHALL BE FORMED AND POURED IN A CURVILINEAR ALIGNMENT.
3. ALL SIDEWALK SHALL BE ADA COMPLIANT

GRAPHIC SCALE
40 0 20 40 80
ORIGINAL PLOTTED SCALE: 1 inch = 40 ft.
IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 80 FT

CAUTION!!
EXISTING UNDERGROUND UTILITIES IN THE AREA CONTRACTOR IS RESPONSIBLE FOR DETERMINING THE HORIZONTAL AND VERTICAL LOCATION OF ALL UTILITIES PRIOR TO CONSTRUCTION. CONTRACTOR SHALL BE RESPONSIBLE FOR ANY REPAIRS TO EXISTING UTILITIES DUE TO DAMAGE INCURRED DURING CONSTRUCTION. CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER OF ANY DISCREPANCIES ON THE PLANS.

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No.	Revision	By	Date

STATE OF TEXAS · MISTY D. CHRISTIAN · 98384 · REGISTERED PROFESSIONAL ENGINEER
8/21/2026

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

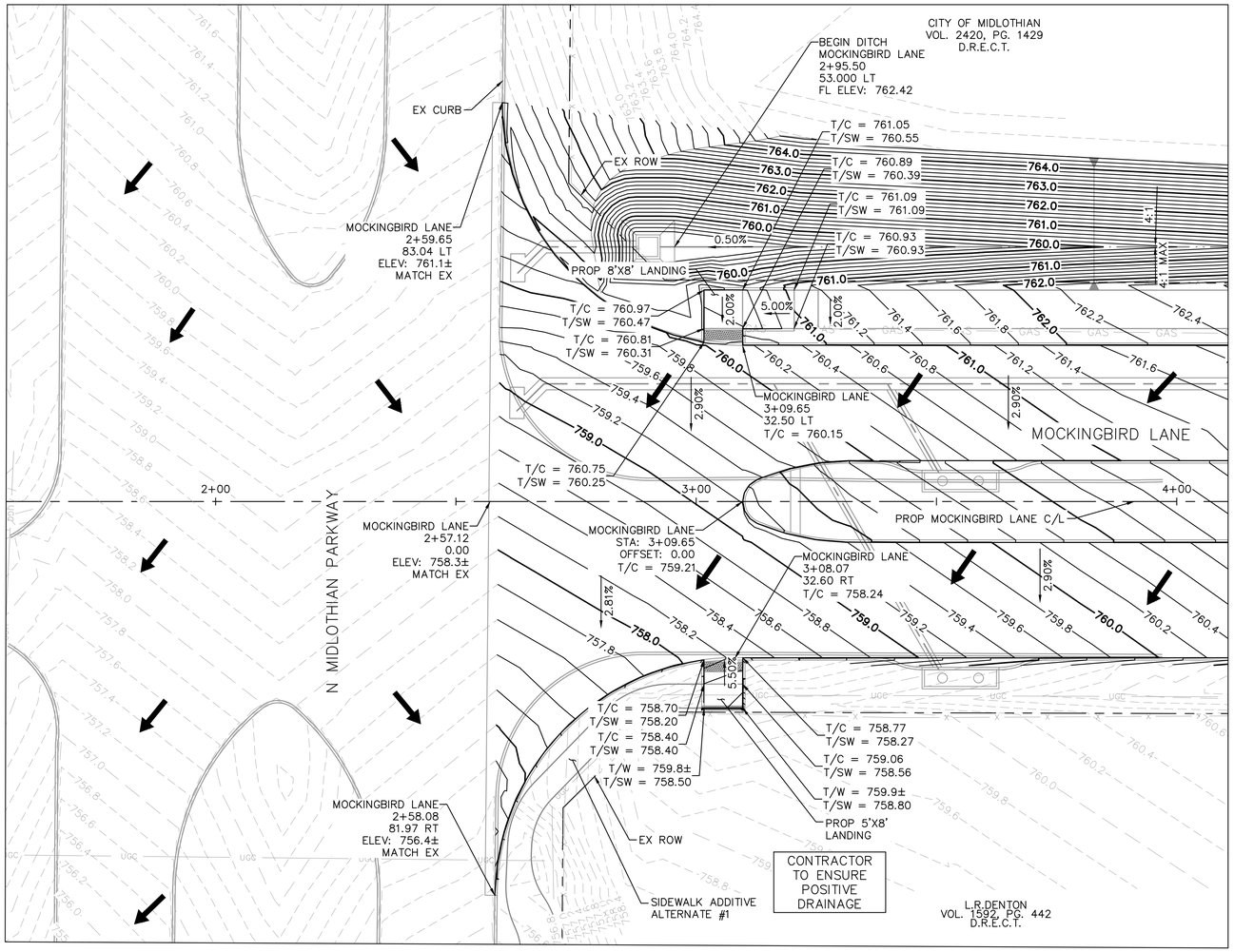
N MIDLOTHIAN PARKWAY
SIDEWALK ADDITIVE
ALTERNATE #1

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER
C1.39

Plotted By: 2026-08-21 12:42:49, Ertle, Jett
Last Saved: 2025-10-15 07:59:50 (ADD_ALT_1)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\paving bid alternatives.dwg

N MIDLOTHIAN PARKWAY – MOCKINGBIRD LANE
INTERSECTION GRADING PLAN



GRAPHIC SCALE

15 0 7.5 15 30

ORIGINAL PLOTTED SCALE:
1 inch = 15 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 30 FT

NOTES:

1. THE INTENT OF THESE SHEETS IS TO SHOW THE GRADING AND ASSOCIATED SURFACE DRAINAGE FOR EACH MAJOR INTERSECTION.
2. CONTRACTOR RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE AT ALL INTERSECTIONS, AND RAMPS.
3. CONTRACTOR TO MAINTAIN ADA COMPLIANT CROSS SLOPES AT CROSS WALKS.

Kimley»Horn
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No.	Revision	By	Date

8/21/2026

STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

MIDLOTHIAN PARKWAY
INTERSECTION
GRADING PLAN

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C1.40

Plotted By: 2026-08-21 13:35:04, Cratty, Austin
Last Saved: 2026-08-21 11:25:23 (MIDLOTHAIN PARKWAY)
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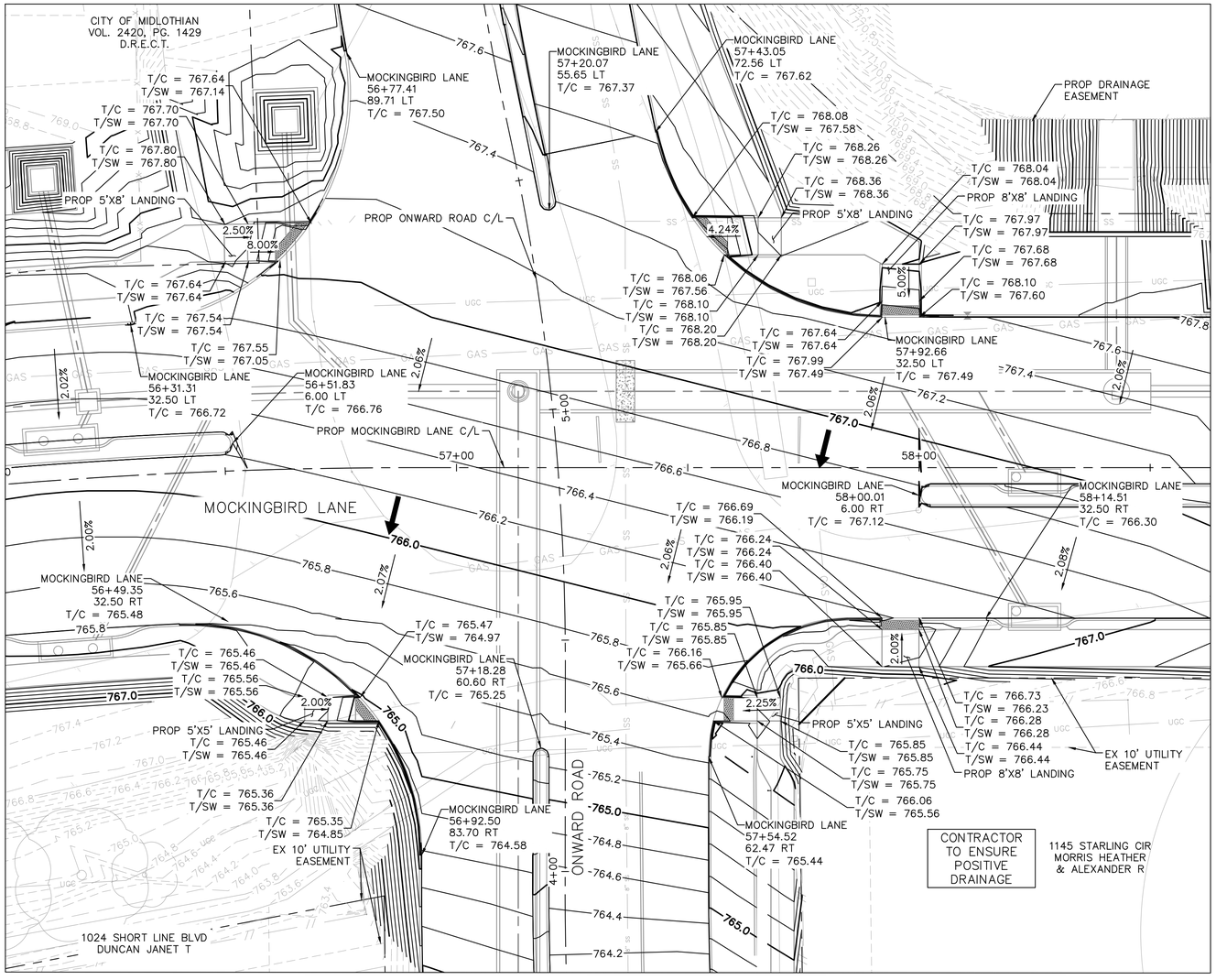
ONWARD ROAD – MOCKINGBIRD LANE
INTERSECTION GRADING PLAN



GRAPHIC SCALE

15 0 7.5 15 30

ORIGINAL PLOTTED SCALE:
1 inch = 15 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 30 FT

NOTES:

1. THE INTENT OF THESE SHEETS IS TO SHOW THE GRADING AND ASSOCIATED SURFACE DRAINAGE FOR EACH MAJOR INTERSECTION.
2. CONTRACTOR RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE AT ALL INTERSECTIONS, AND RAMPS.
3. CONTRACTOR TO MAINTAIN ADA COMPLIANT CROSS SLOPES AT CROSS WALKS.

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

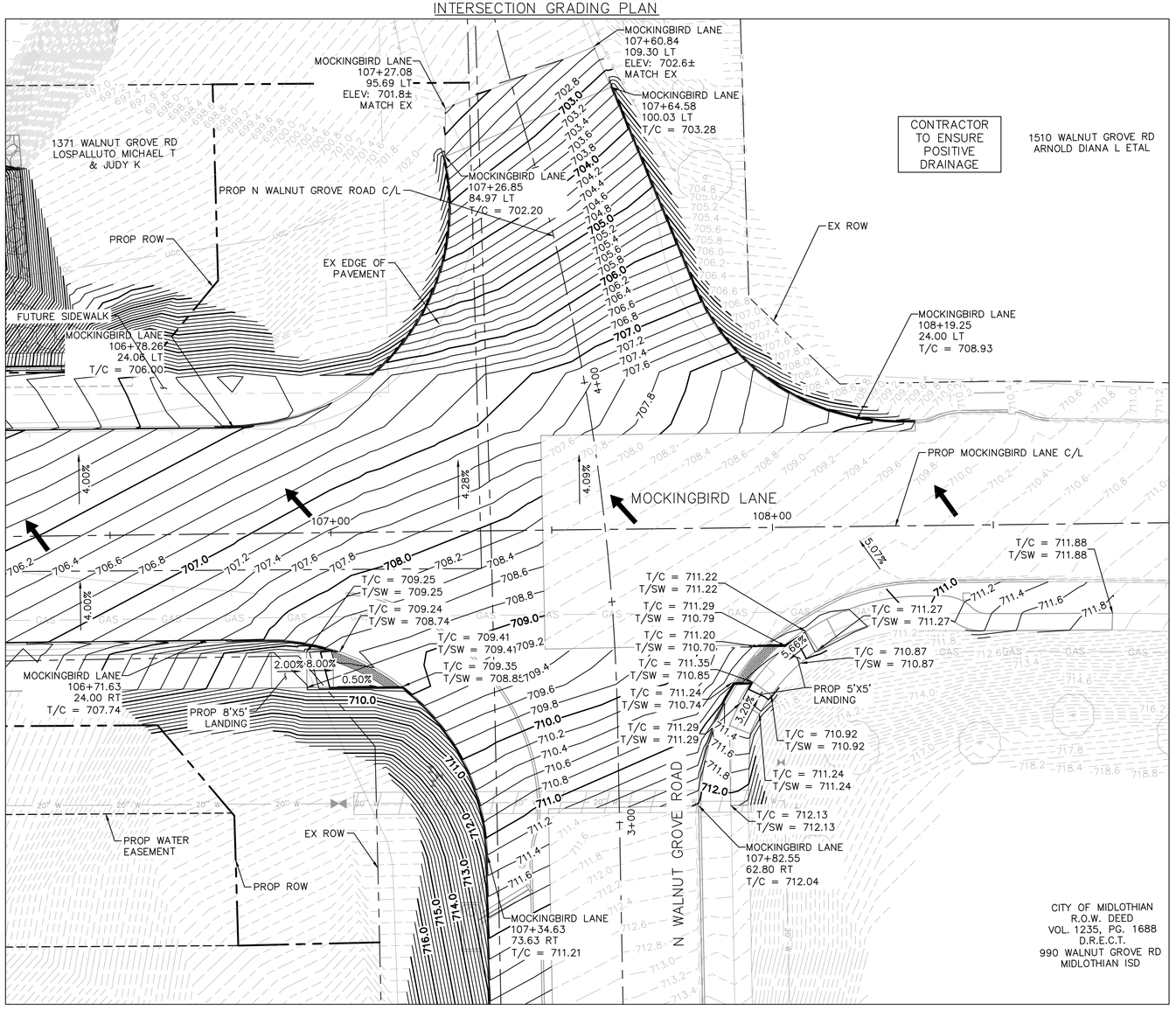
ONWARD ROAD
INTERSECTION
GRADING PLAN

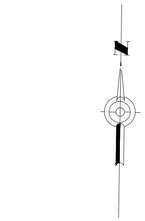
DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C1.41

Plotted By: 2026-08-21 13:35:15, Cratty, Austin
Last Saved: 2026-08-21 11:25:23 (ONWARD RD)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\intersection_grading_plans.dwg

N WALNUT GROVE ROAD – MOCKINGBIRD LANE INTERSECTION GRADING PLAN





GRAPHIC SCALE

15 0 7.5 15 30

ORIGINAL PLOTTED SCALE:
1 inch = 15 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 30 FT

NOTES:

1. THE INTENT OF THESE SHEETS IS TO SHOW THE GRADING AND ASSOCIATED SURFACE DRAINAGE FOR EACH MAJOR INTERSECTION.
2. CONTRACTOR RESPONSIBLE FOR ENSURING POSITIVE DRAINAGE AT ALL INTERSECTIONS, AND RAMPS.
3. CONTRACTOR TO MAINTAIN ADA COMPLIANT CROSS SLOPES AT CROSS WALKS.

Kimley»Horn
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No.	Revision	By	Date

8/21/2026

STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

N WALNUT ROAD
INTERSECTION
GRADING PLAN

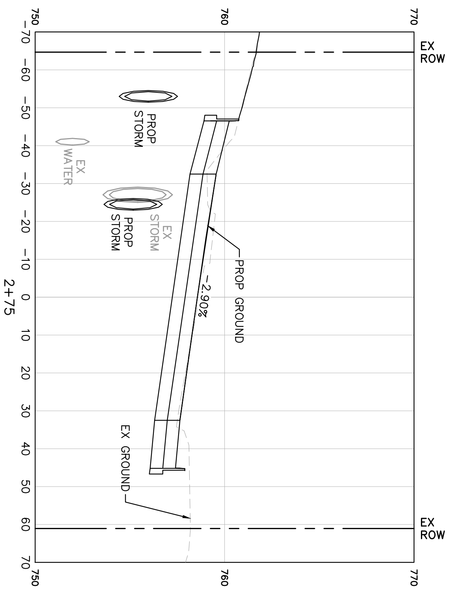
DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

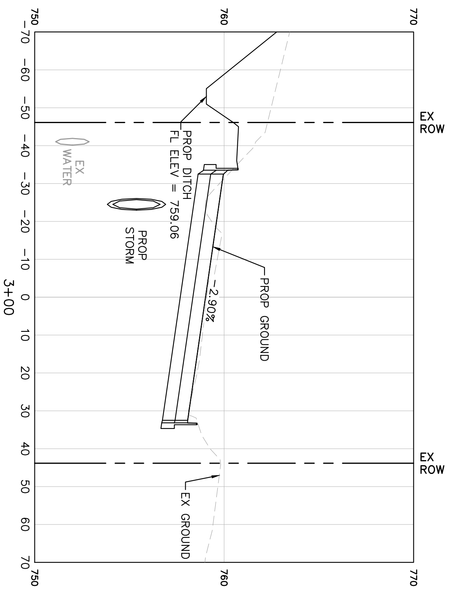
SHEET NUMBER

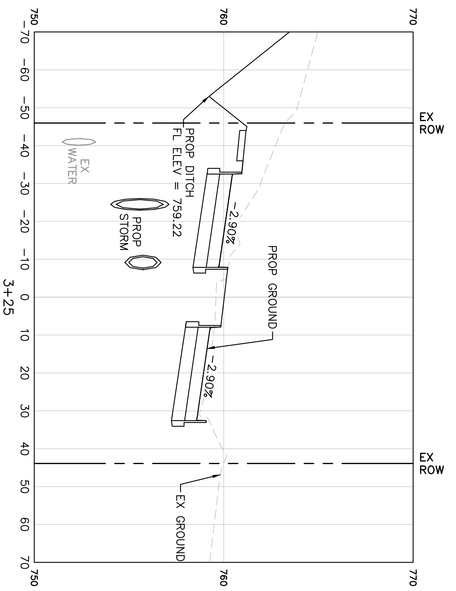
C1.42

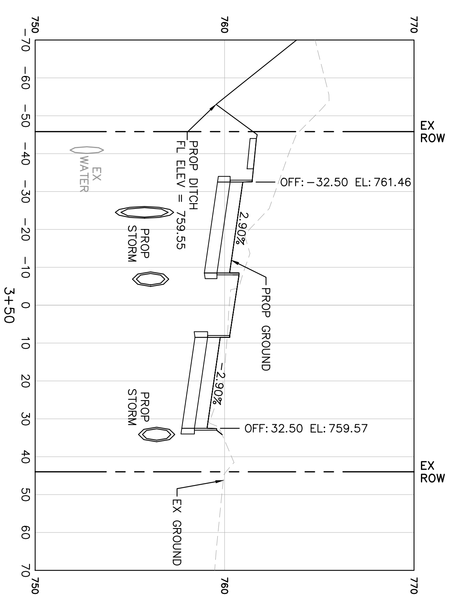
Plotted, By: 2026-08-21 13:35:24, Cratty, Austin
Last Saved: 2026-08-21 11:25:23 (N WALNUT RD)
k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\intersection_grading_plans.dwg
Filename:

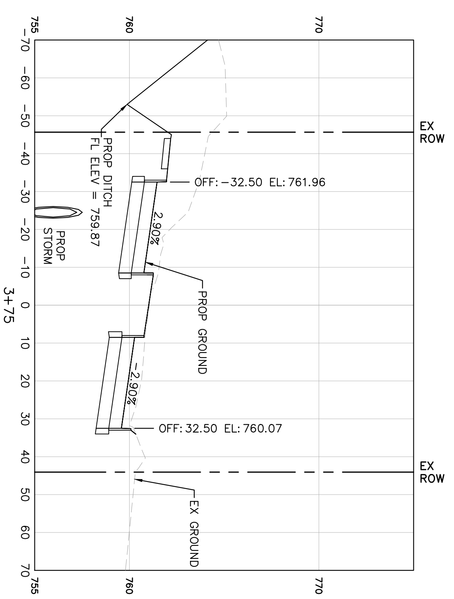
Plotted, By: 2026-08-21 11:14:01, Del Rosso, Austin
Last Saved: 2026-08-21 10:51:37 (BEGIN TO STA 4+75)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\design\ocorridor_begin to sta 36+00.dwg

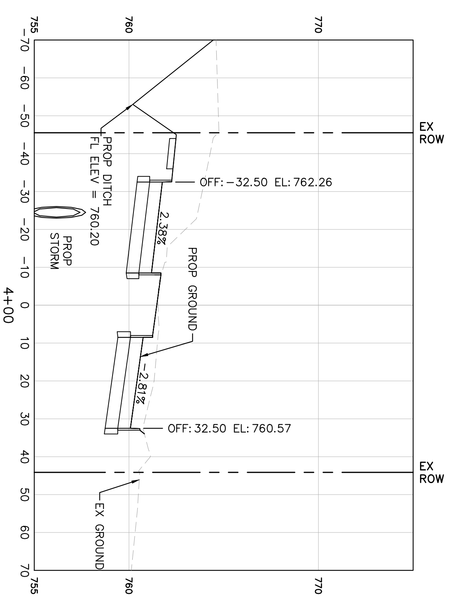


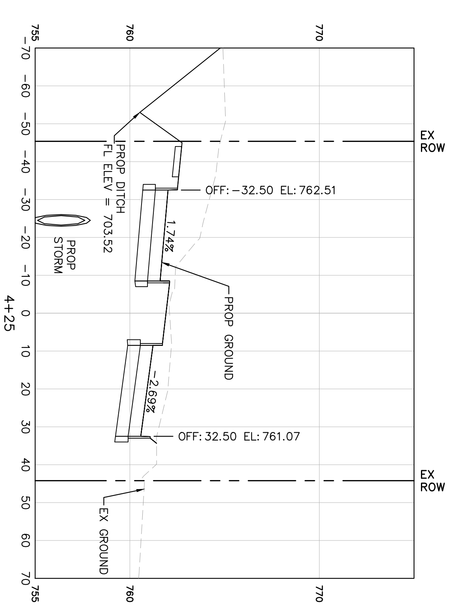


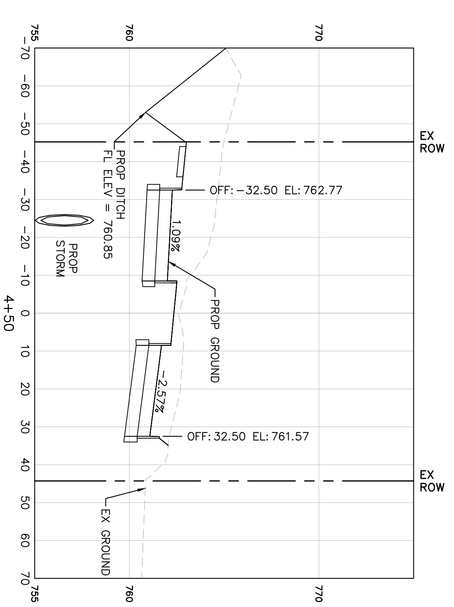


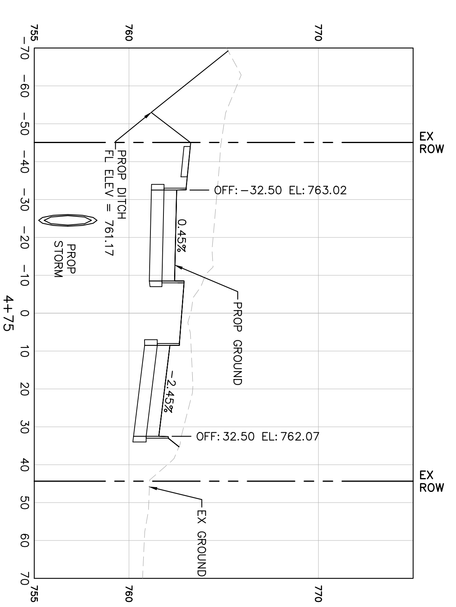












C1.43
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

CROSS SECTIONS - BEGIN TO STA 4+75

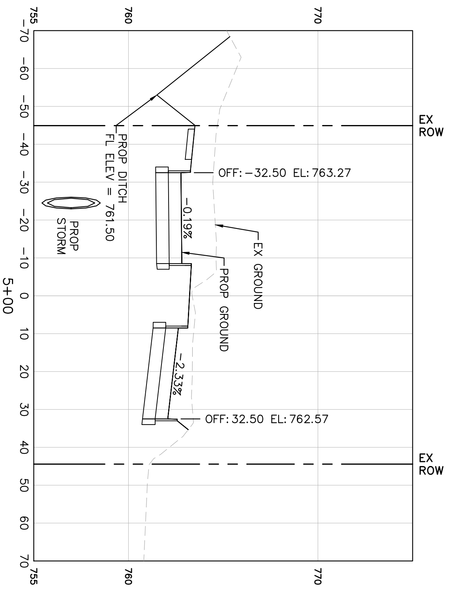
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

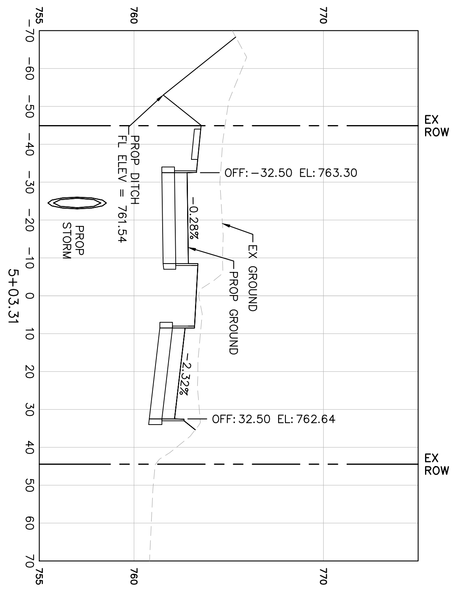
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

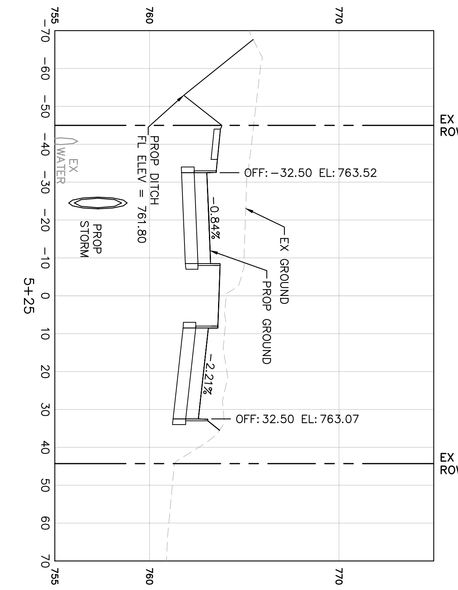
Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

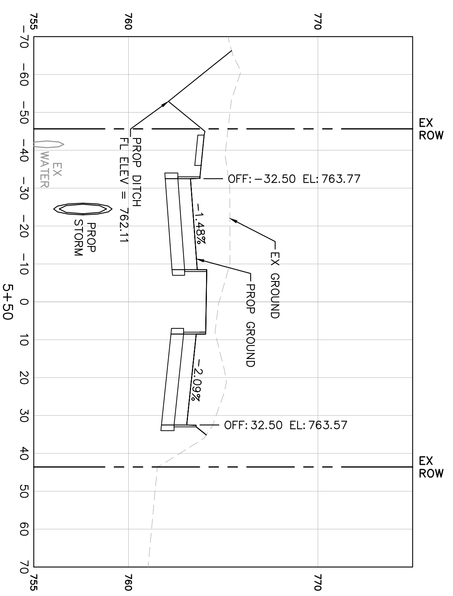
No.	Revision	By	Date

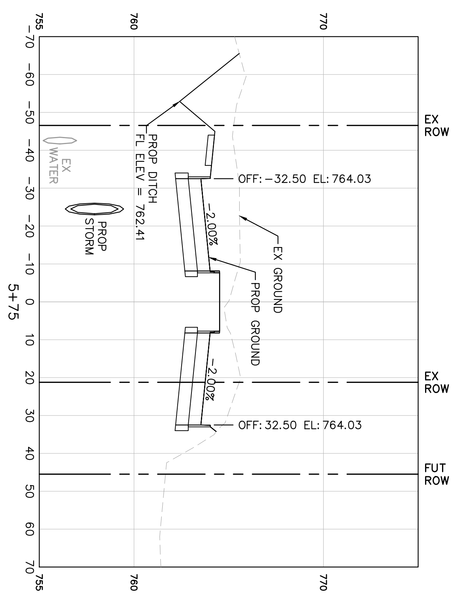
2026-08-21 11:14:08, Del Rosso, Austin
Plotted, By: 2026-08-21 10:51:37 (STA 5+00 TO STA 6+50)
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird
Filename: lane\cadd\design\ocorridor_begin to sta 36+00.dwg

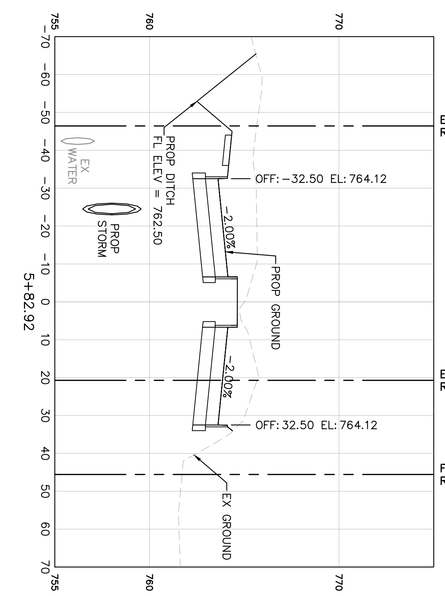


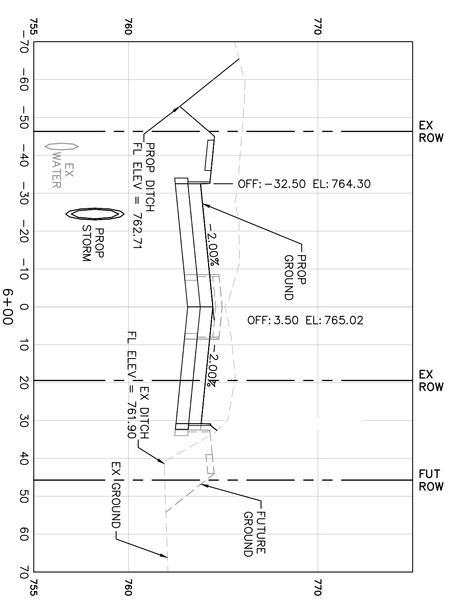


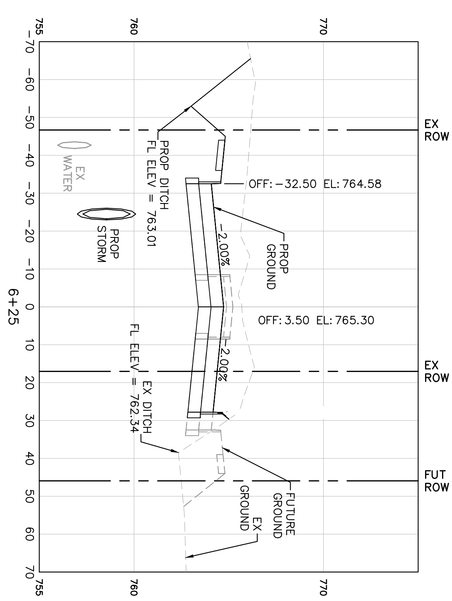


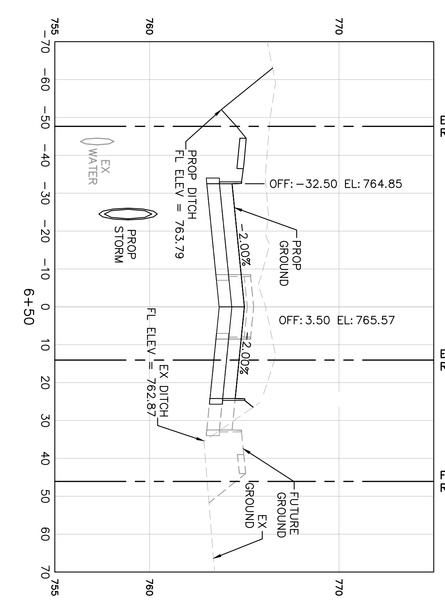












C1.44
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

CROSS SECTIONS - STA 5+00 TO STA 6+50

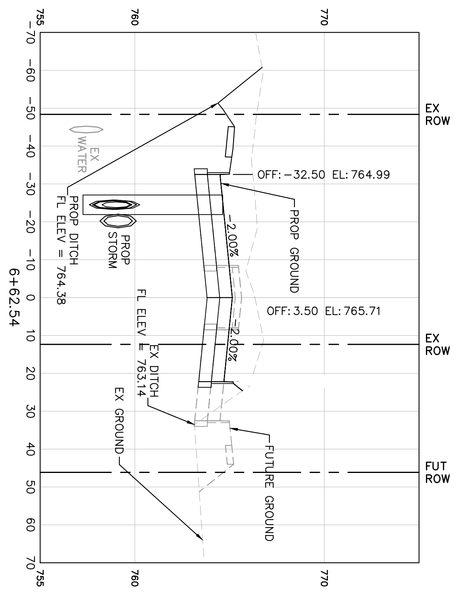
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

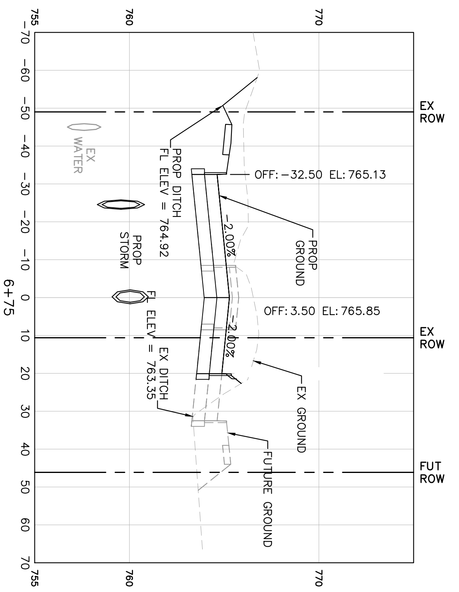
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

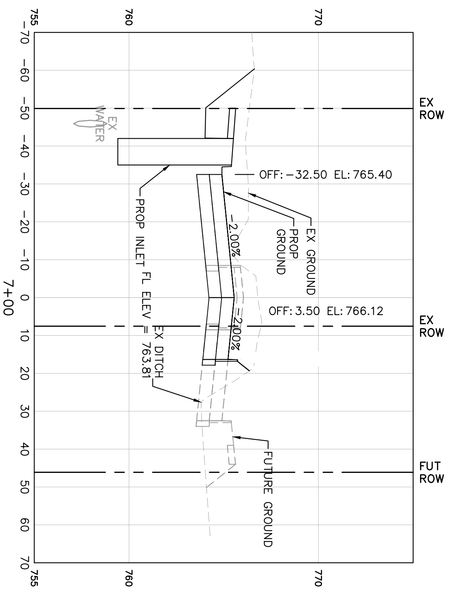
Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

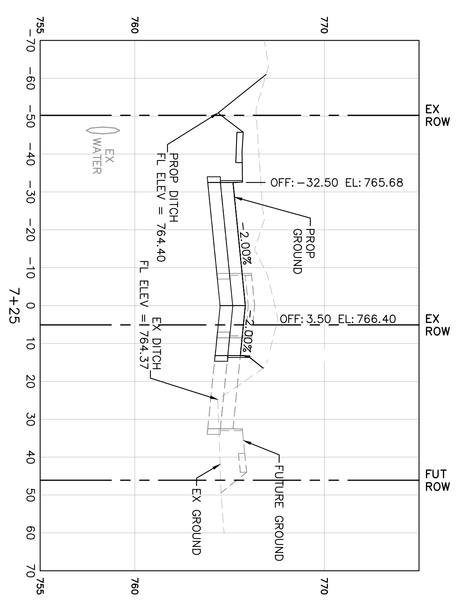
No.	Revision	By	Date

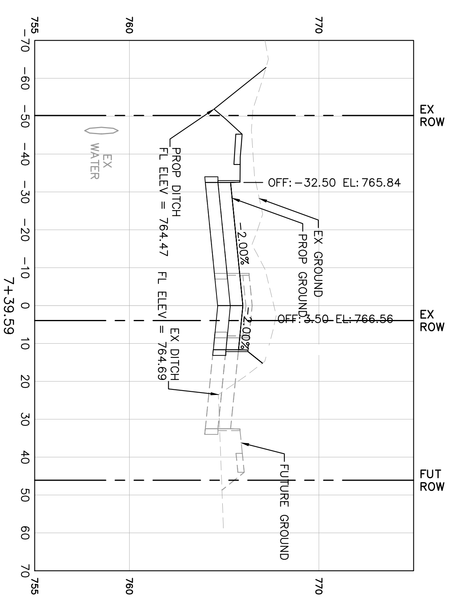
2026-08-21 11:14:15, Del Rosso, Austin
Plotted, By: 2026-08-21 10:51:37 (STA 6+62.54 TO 8+16.64)
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird
Filename: lane\cadd\design\ocorridor_begin to sta 36+00.dwg

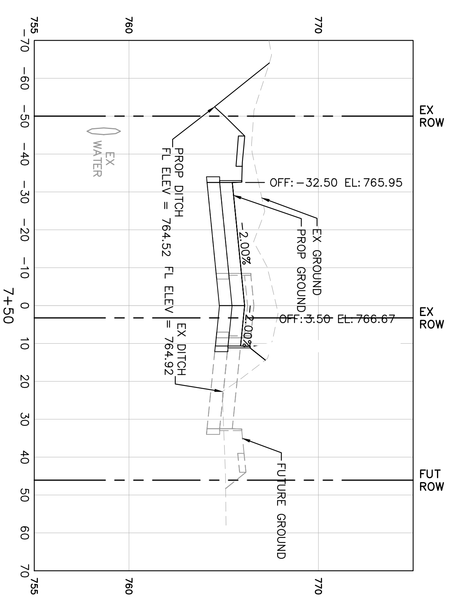


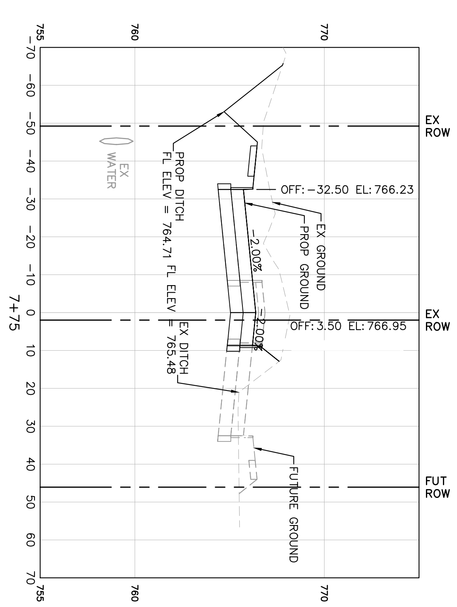


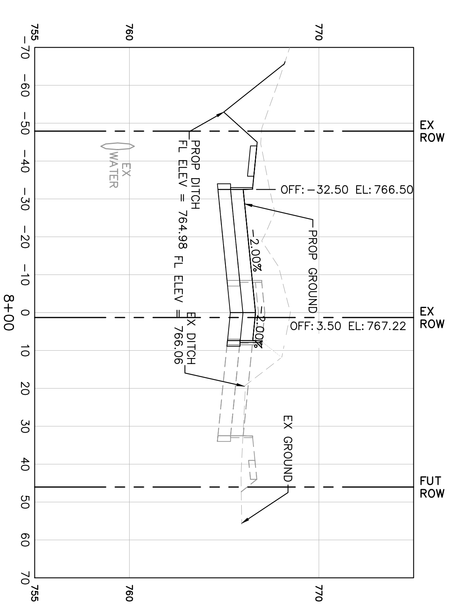


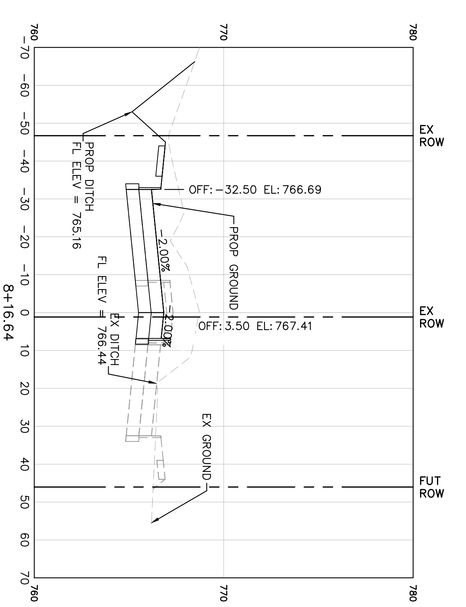












C1.45
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

CROSS SECTIONS - STA 6+62.54 TO 8+16.64

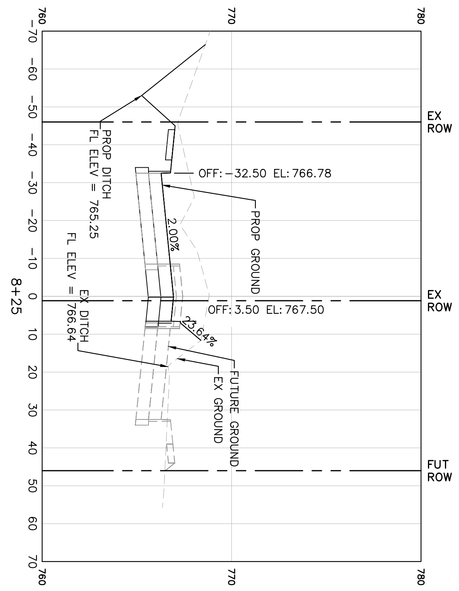
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

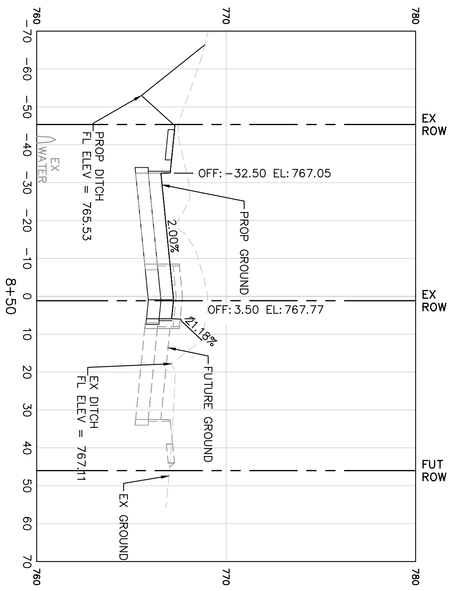
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

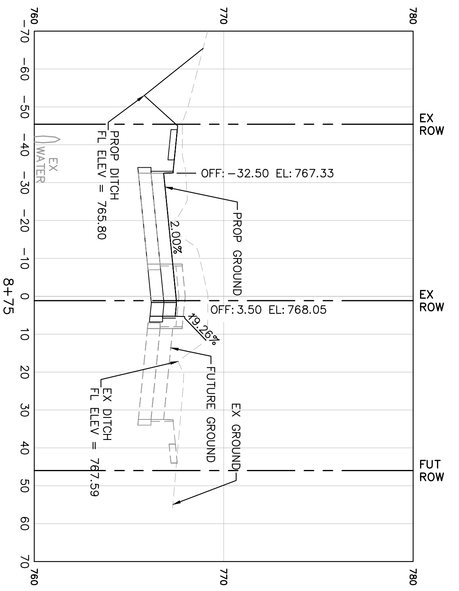
Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

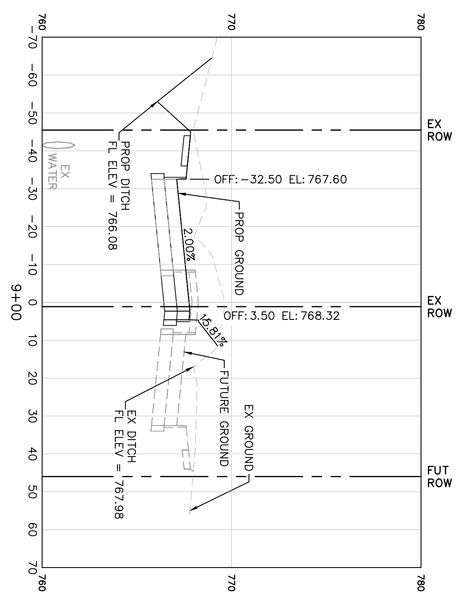
No.	Revision	By	Date

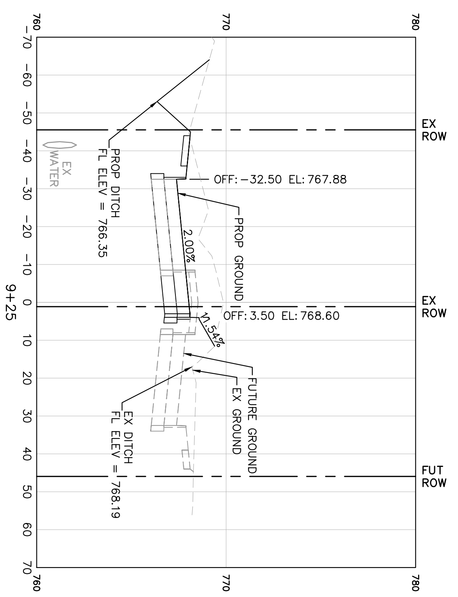
2026-08-21 11:14:22, Del Rosso, Austin
Plotted, By: 2026-08-21 10:51:37 (STA 8+25 TO 10+25)
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird
Filename: lane\cadd\design\ocorridor_begin to sta 36+00.dwg

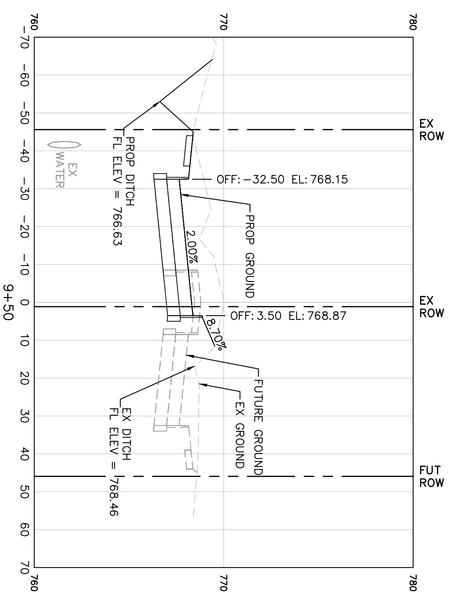


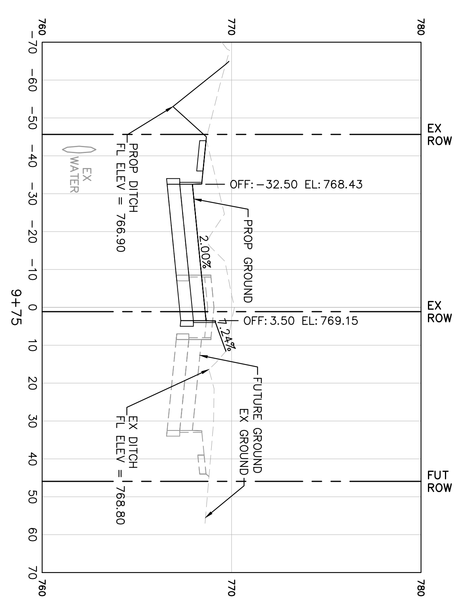


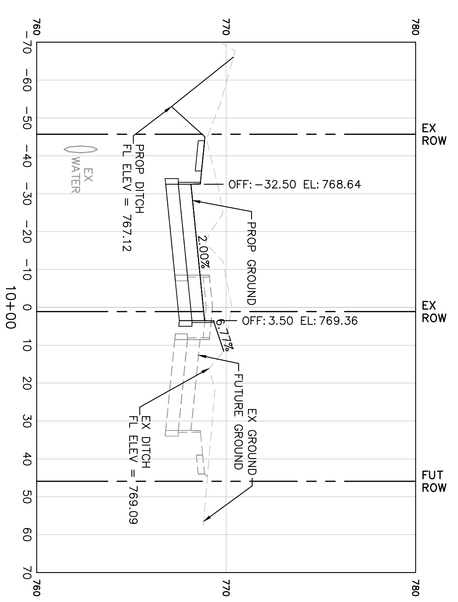


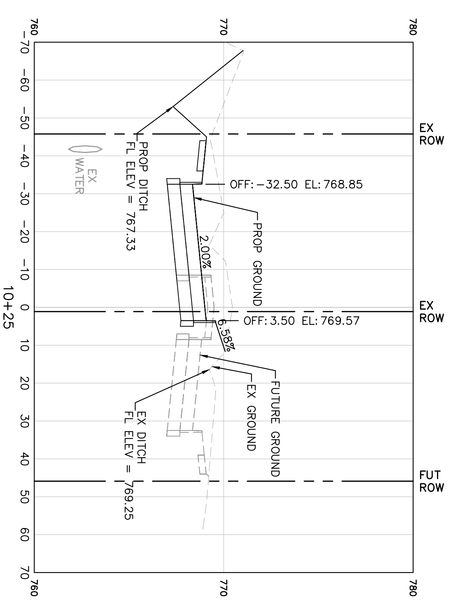












DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

C1.46
SHEET NUMBER

CROSS SECTIONS - STA 8+25 TO 10+25

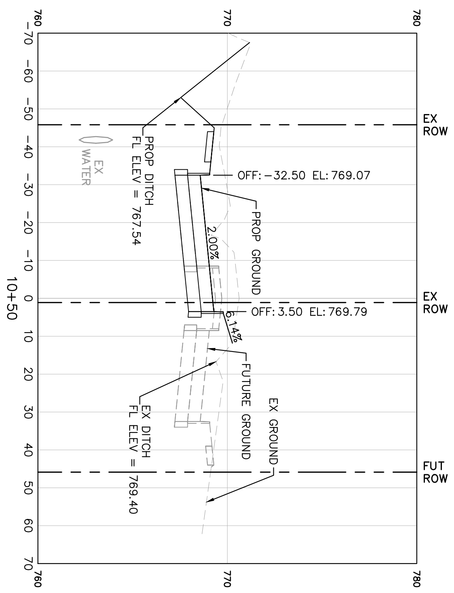
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

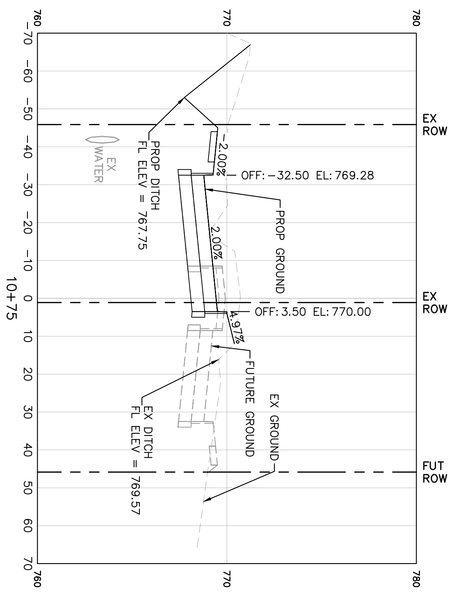
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

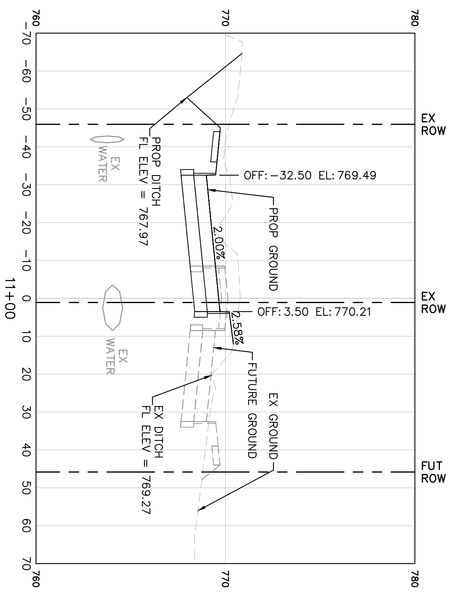
Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

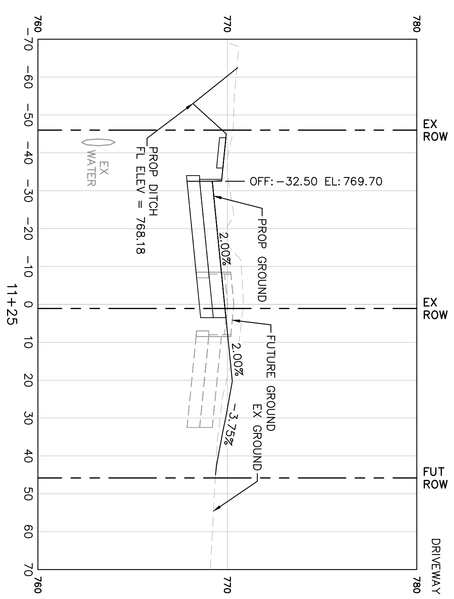
No.	Revision	By	Date

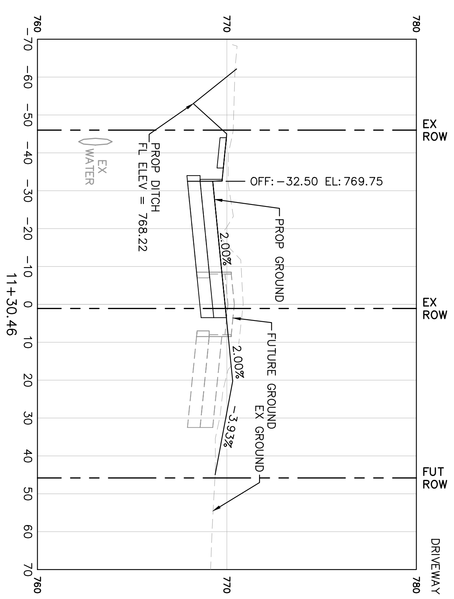
Plotted, By: 2026-08-21 11:14:29, Del Rosso, Austin
Last Saved: 2026-08-21 10:51:37 (STA 10+50 TO STA 12+25)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\design\ocorridor_begin to sta 36+00.dwg

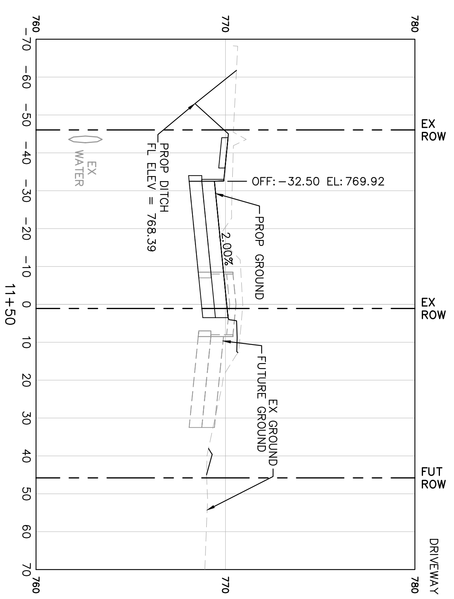


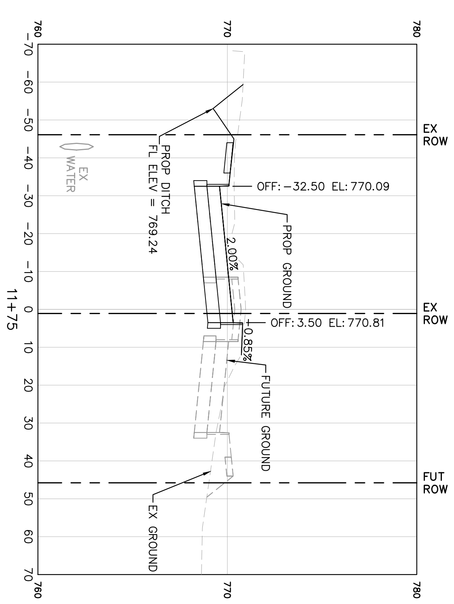


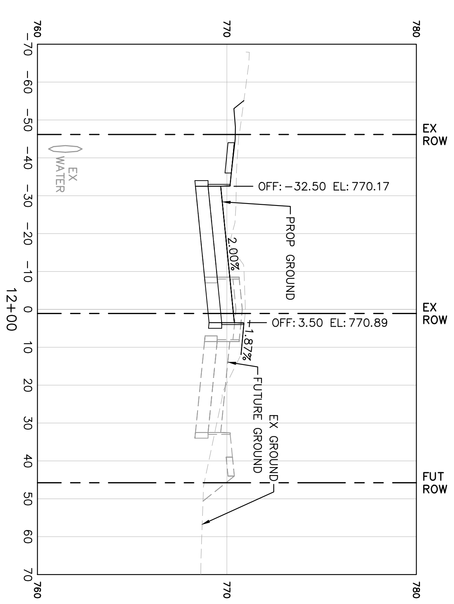


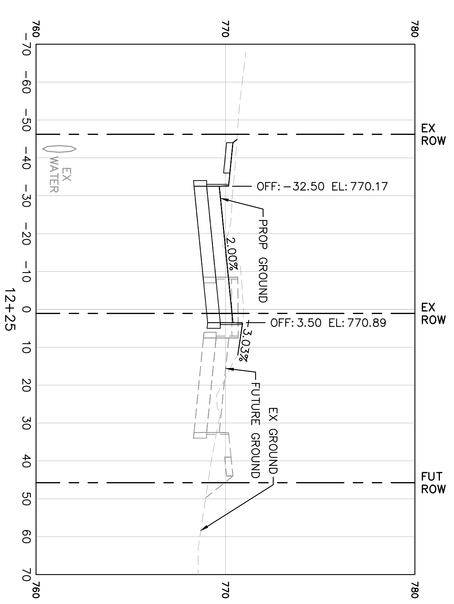












C1.47
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

CROSS SECTIONS - STA 10+50 TO STA 12+25

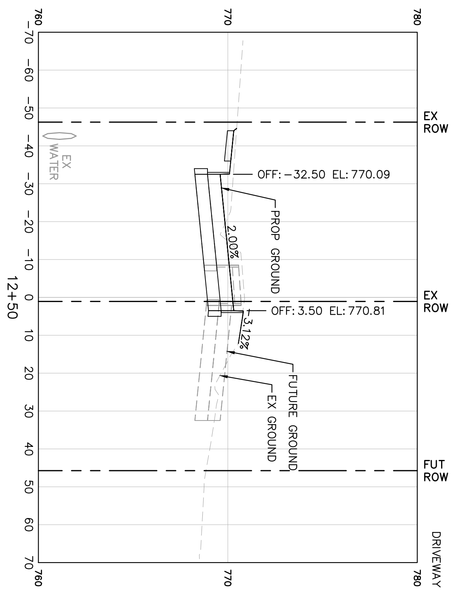
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

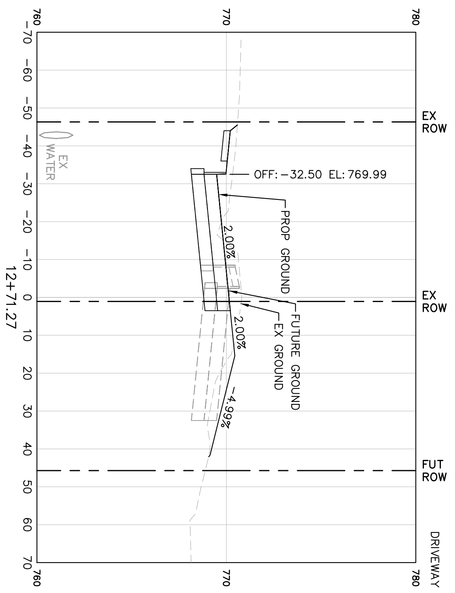
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

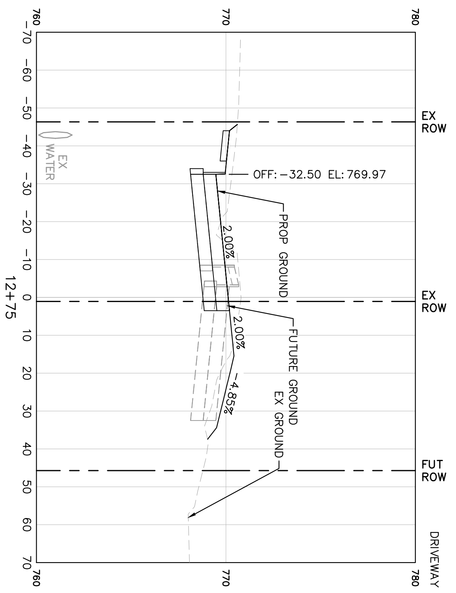
Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

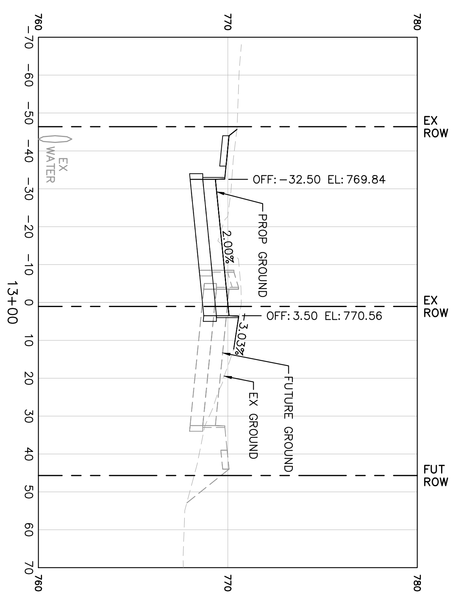
No.	Revision	By	Date

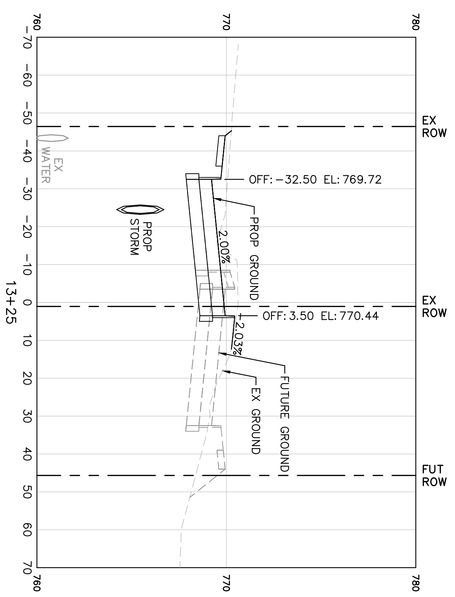
Plotted, By: 2026-08-21 11:14:36, Del Rosso, Austin
Last Saved: 2026-08-21 10:51:37 (STA 12+50 TO STA 14+25)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\design\ocorridor_begin to sta 36+00.dwg

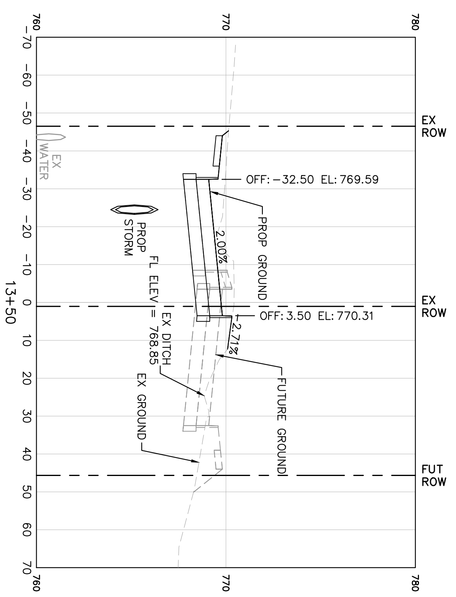


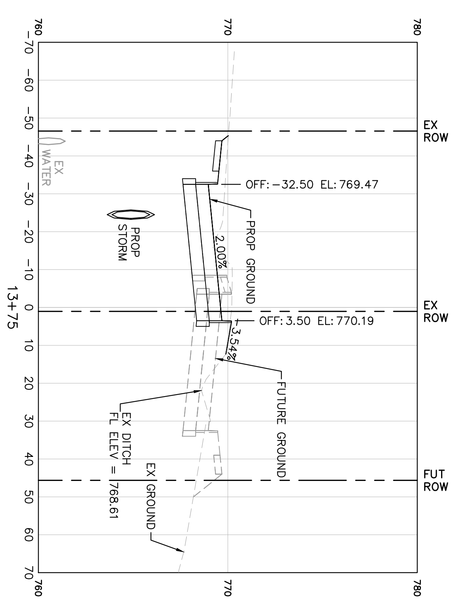


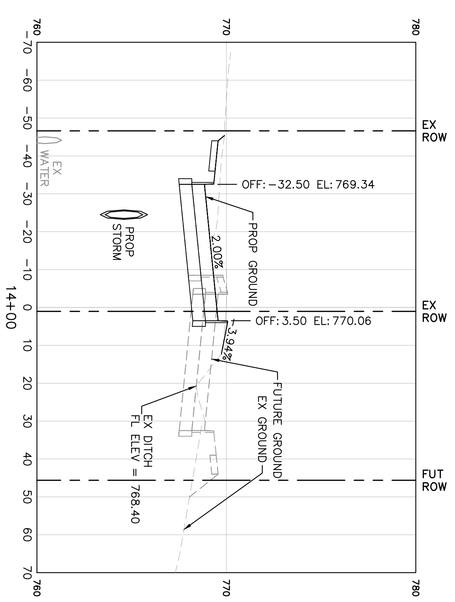


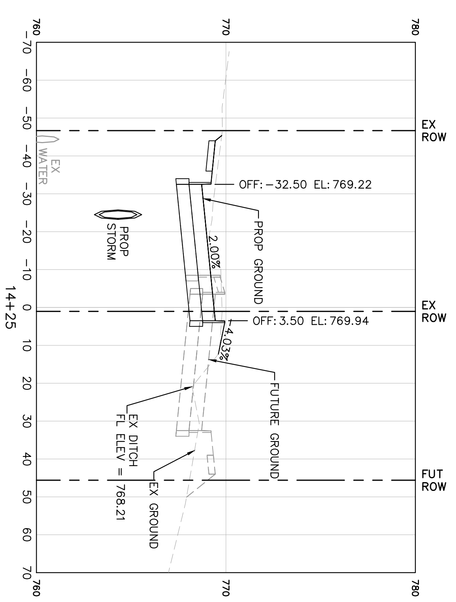












C1.48
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

CROSS SECTIONS - STA 12+50 TO STA 14+25

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

Plotted, By: 2026-08-21 11:14:43, Del Rosso, Austin
Last Saved: 2026-08-21 10:51:37 (STA 14+50 TO STA 16+25)
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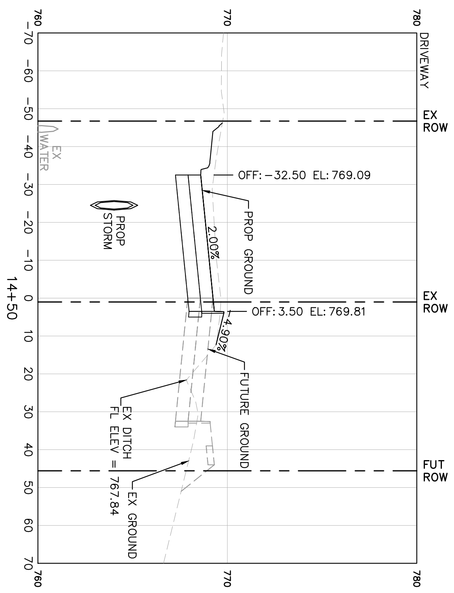

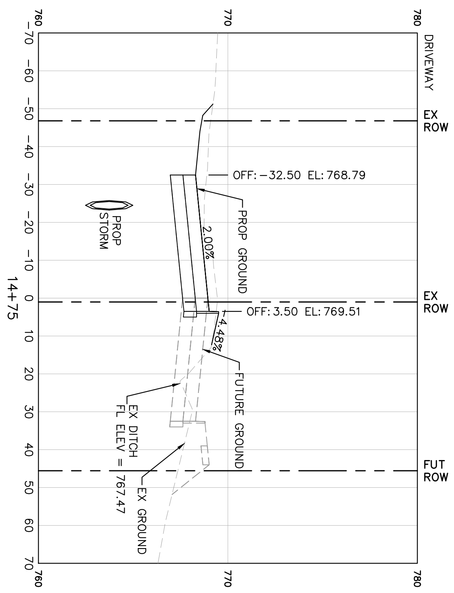

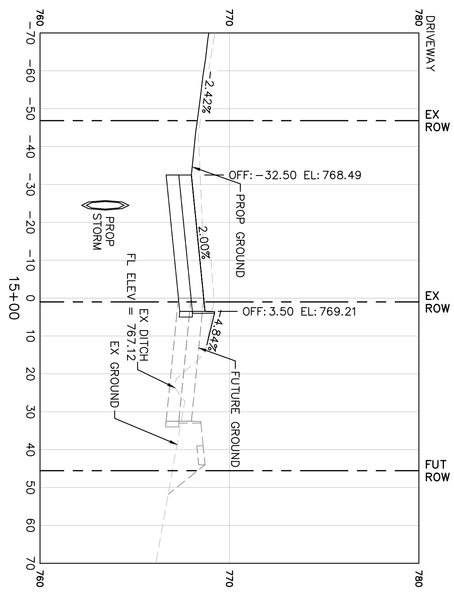

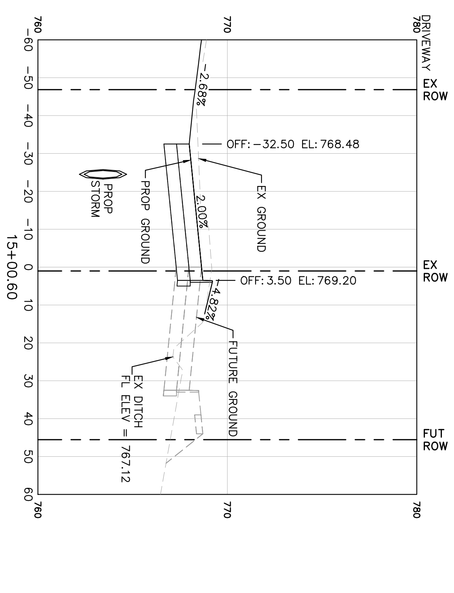

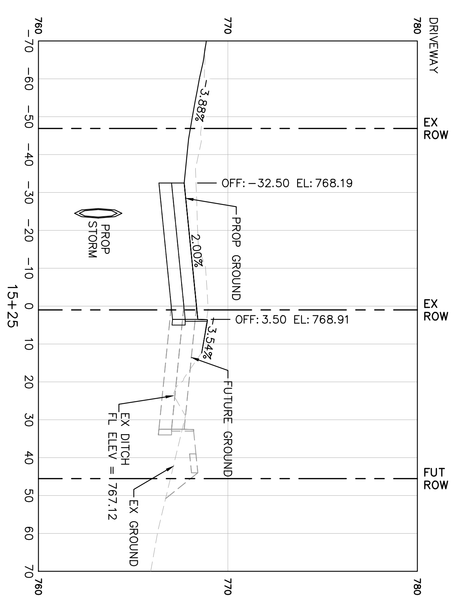

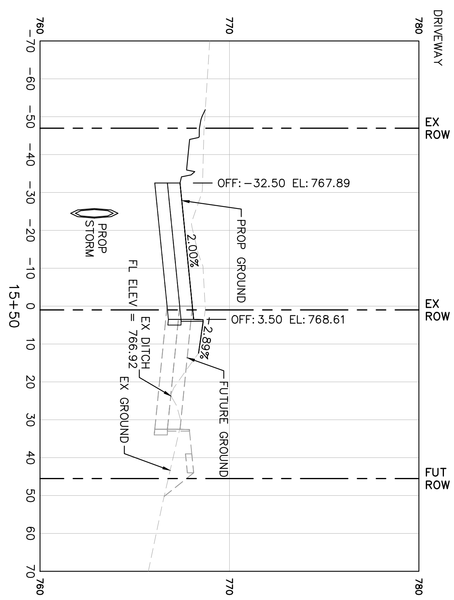

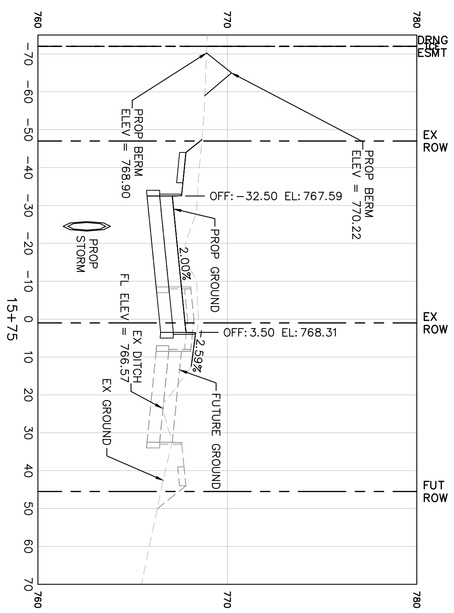

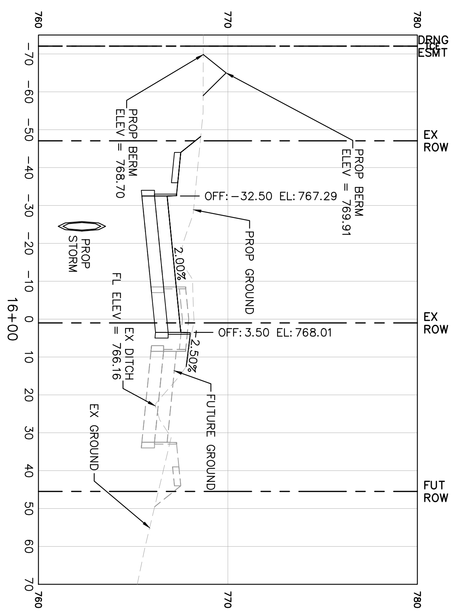

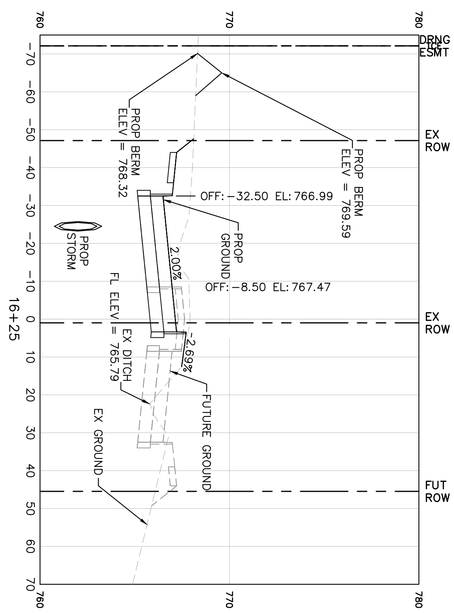

C1.49
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

CROSS SECTIONS - STA 14+50 TO STA 16+25

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

2026-08-21 11:14:50, Del Rosso, Austin
Plotted, By: 2026-08-21 10:51:37 (STA 16+50 TO 18+50)
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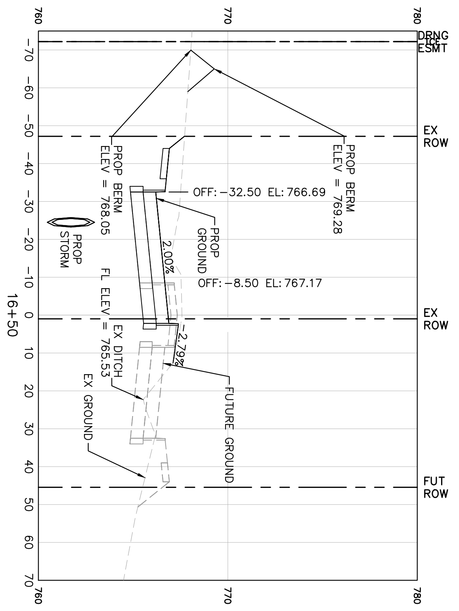
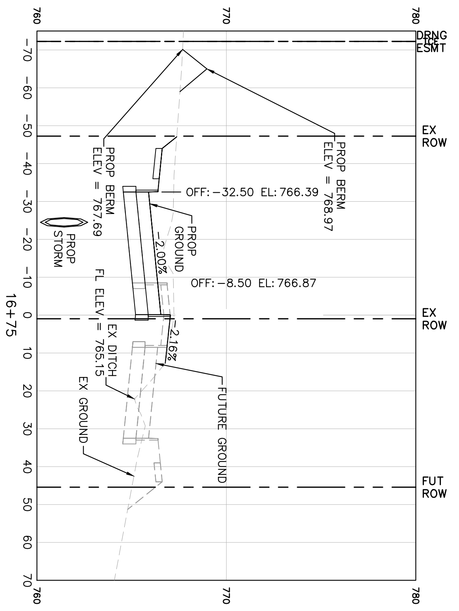
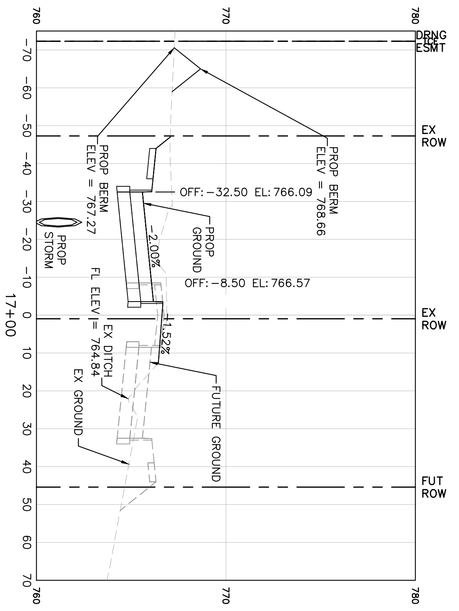
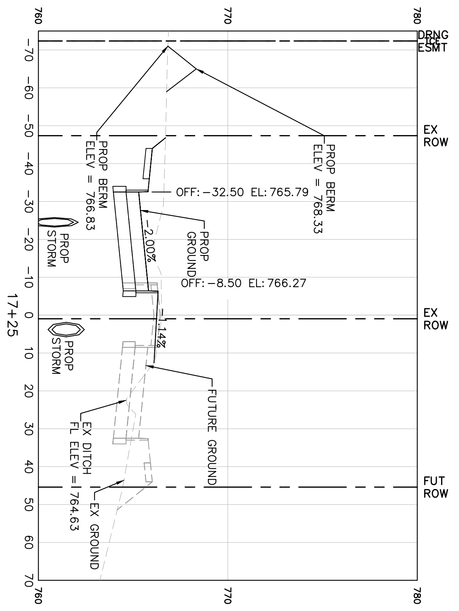
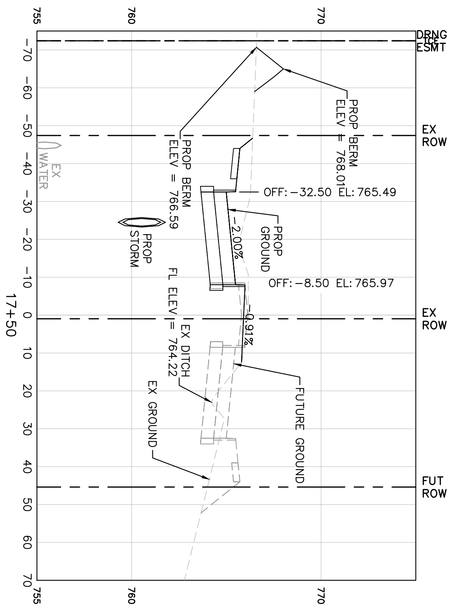
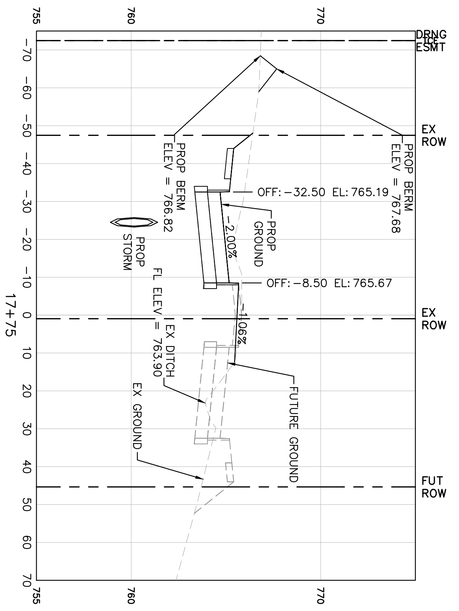


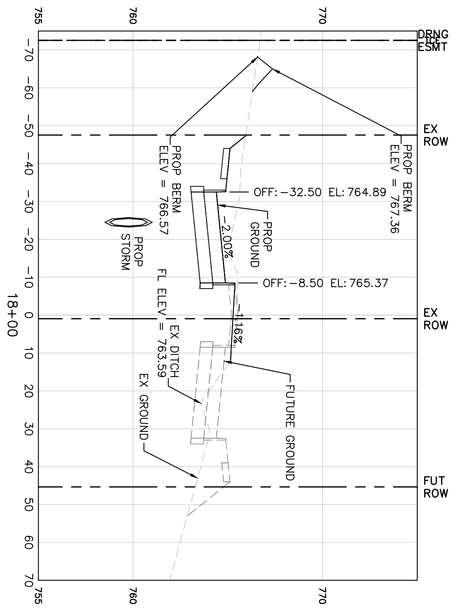


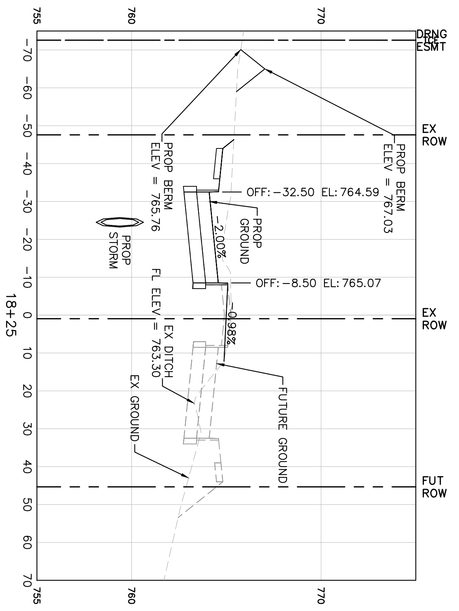


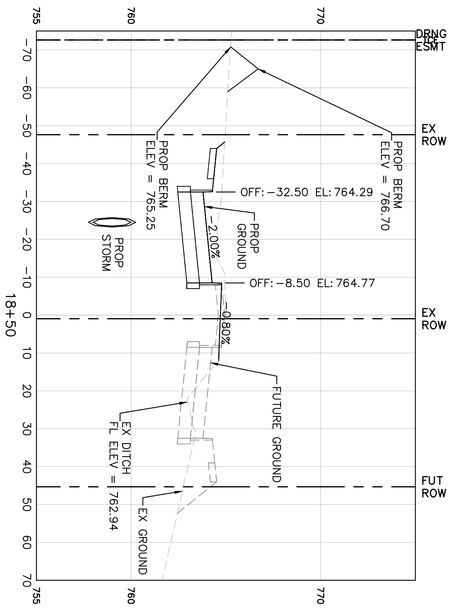












C1.50
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

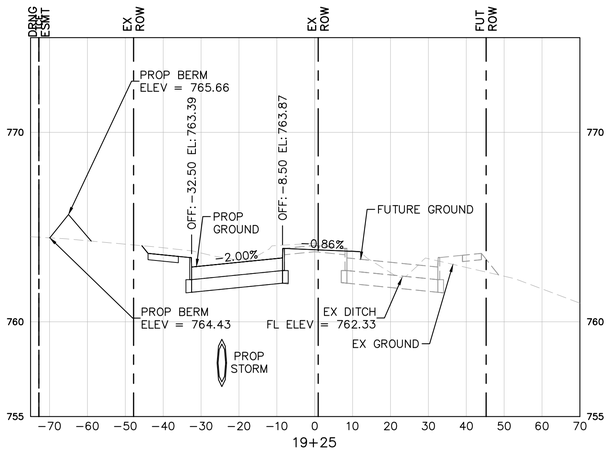
CROSS SECTIONS - STA 16+50 TO 18+50

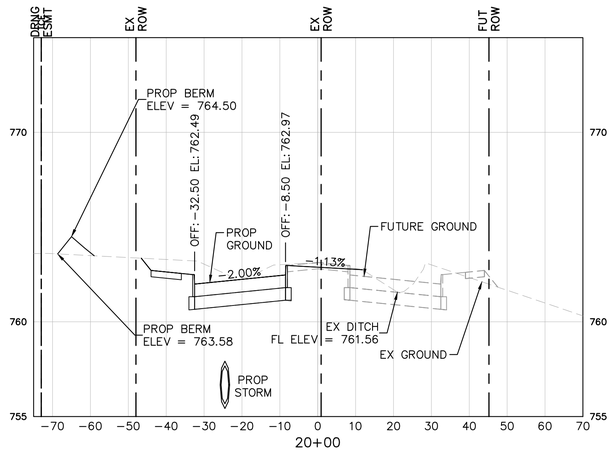
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

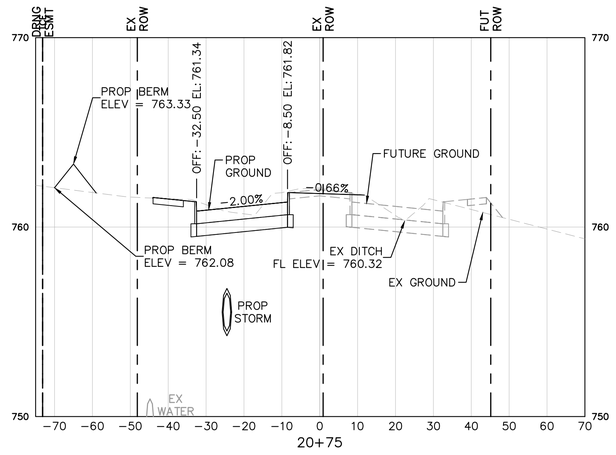
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

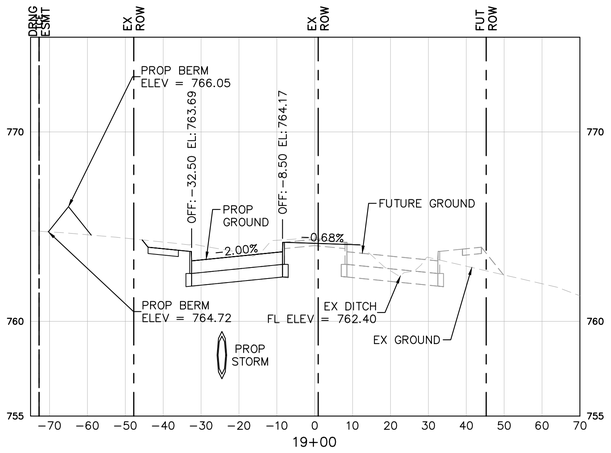
Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

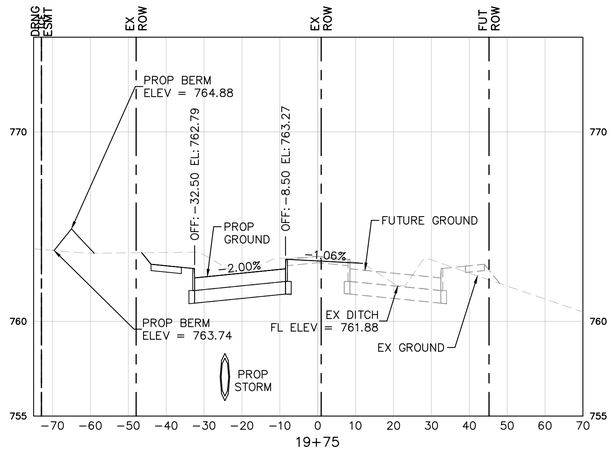
No.	Revision	By	Date

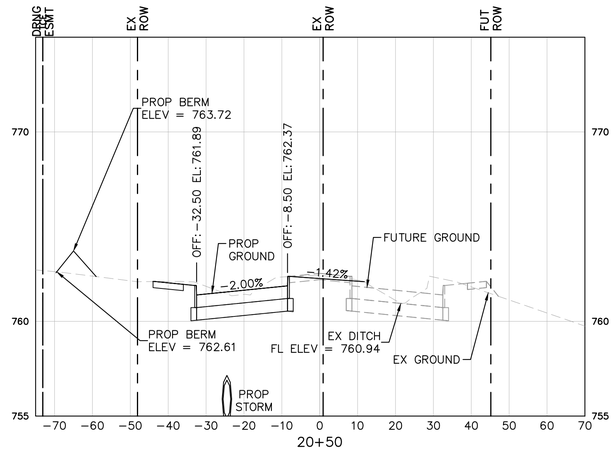


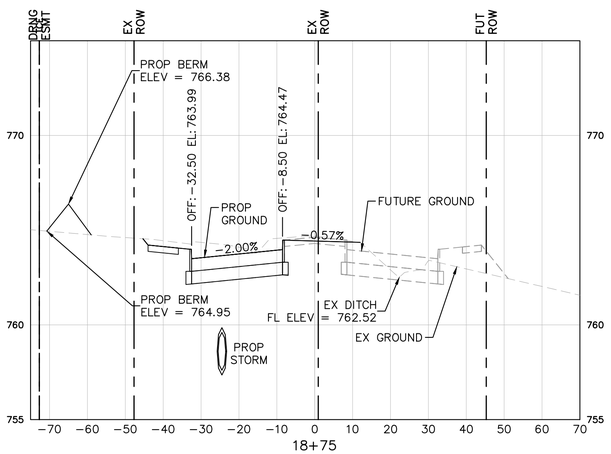


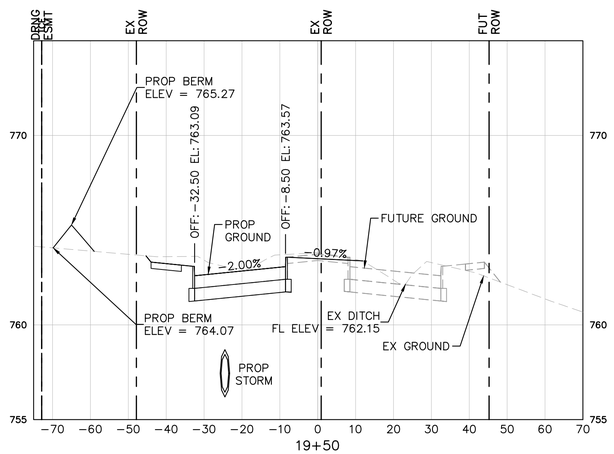


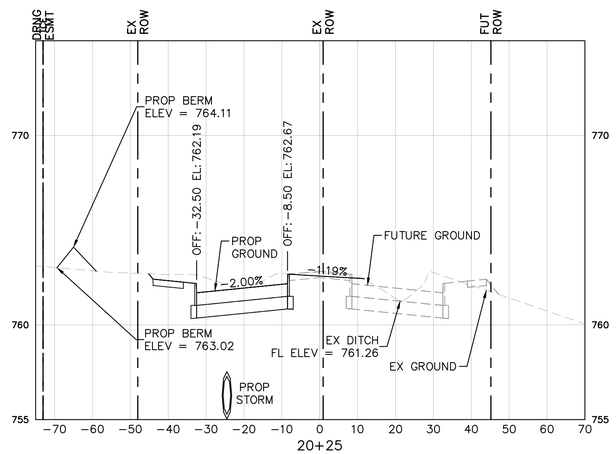












Plotted, By: 2026-08-21 11:14:57, Del Rosso, Austin
Last Saved: 2026-08-21 10:51:37, (STA 18+75 TO STA 20+75)
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Filename:

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

CROSS SECTIONS - STA
18+75 TO STA 20+75

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C1.51

2026-08-21 11:15:04, Del Rosso, Austin
Plotted, By: 2026-08-21 10:51:37 (STA 21+00 TO STA 23+00)
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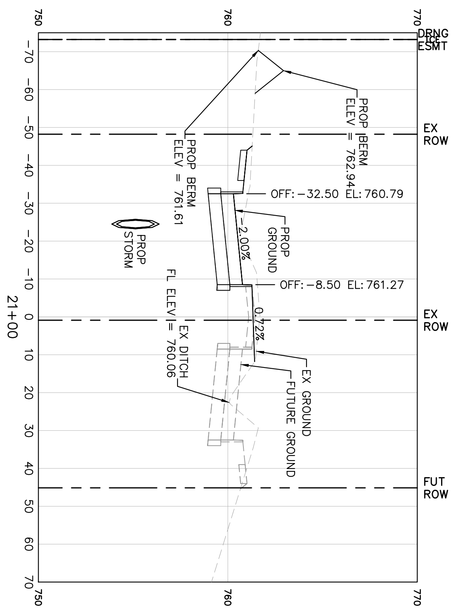
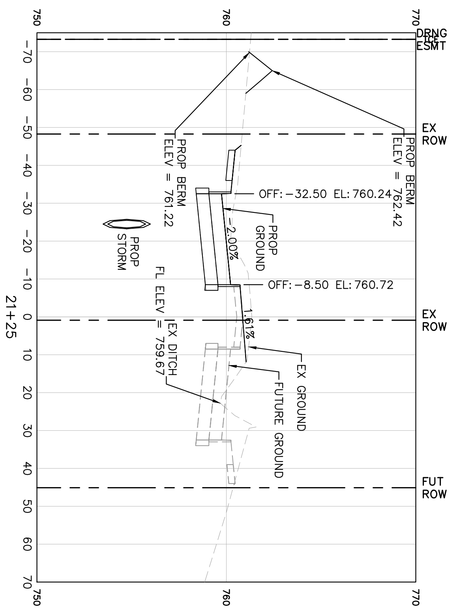
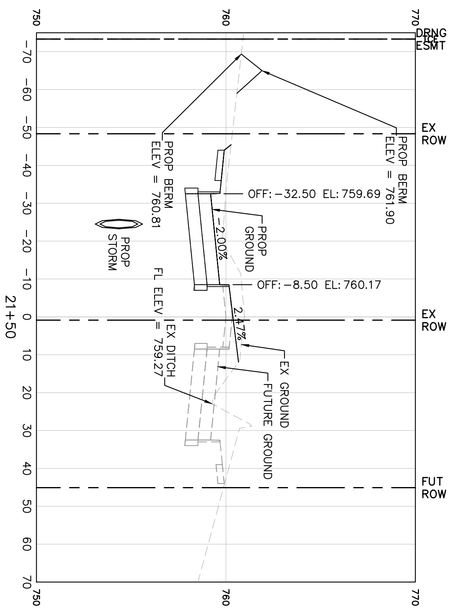
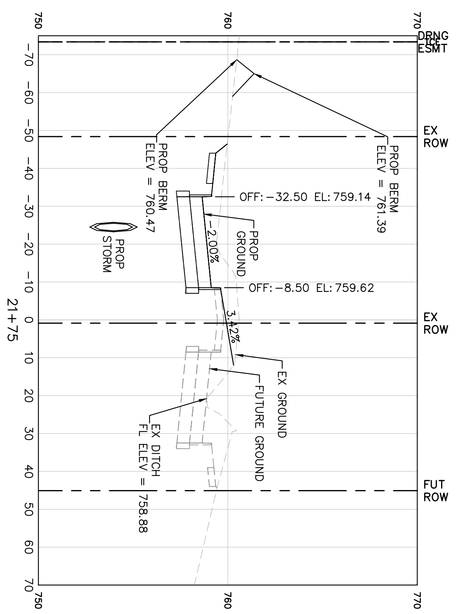
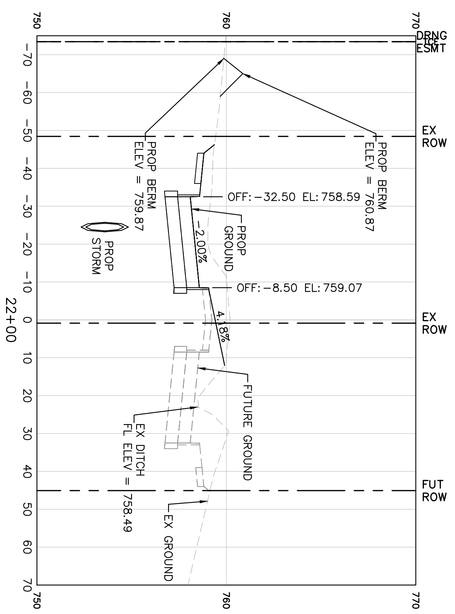
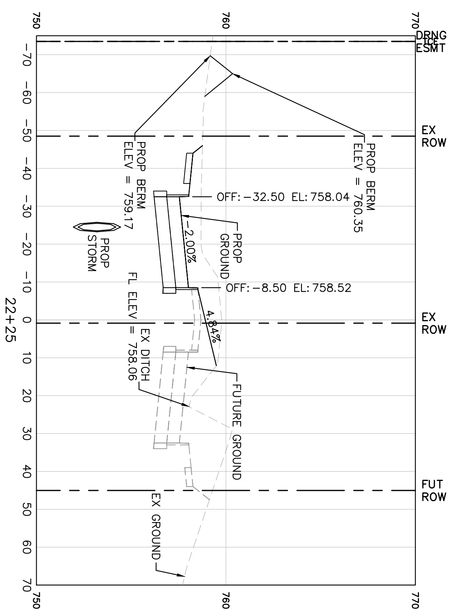


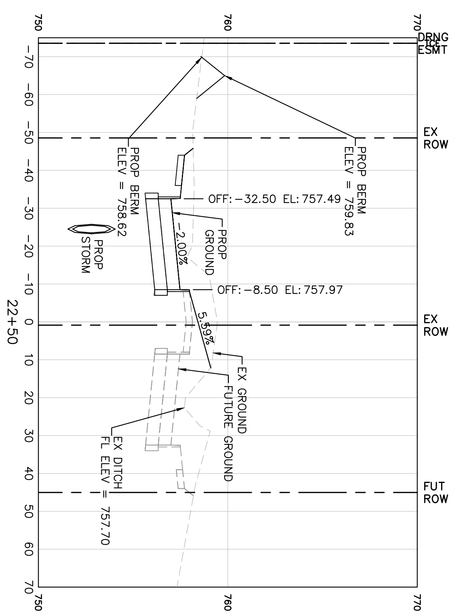


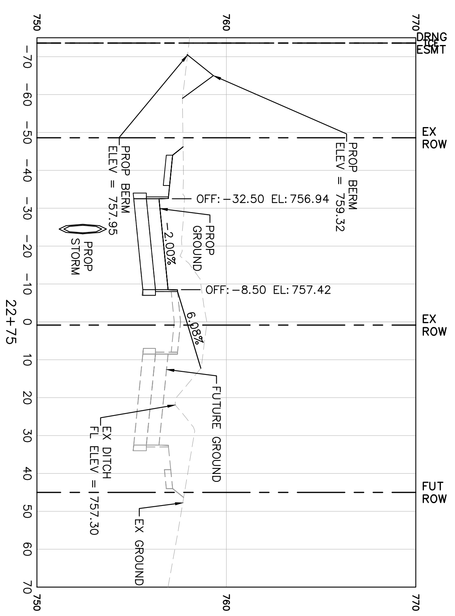


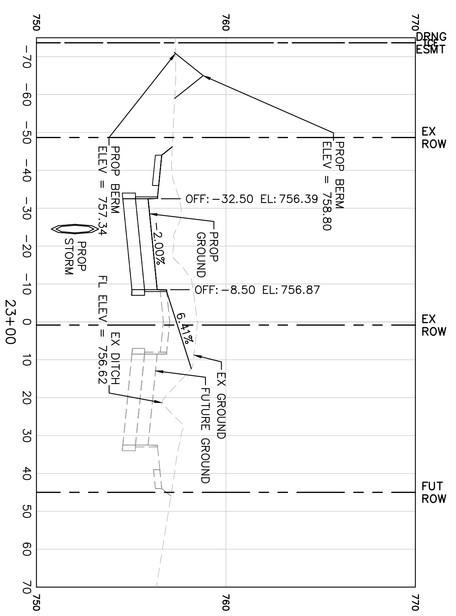












C1.52
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

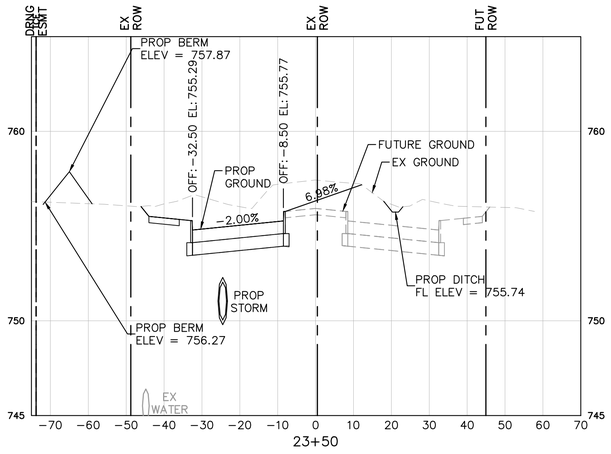
CROSS SECTIONS - STA 21+00 TO STA 23+00

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date



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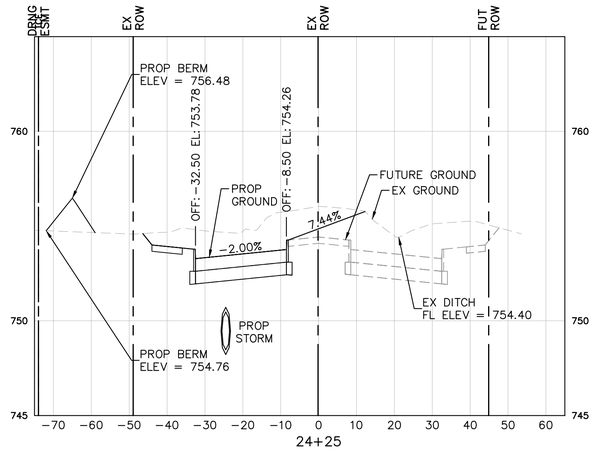

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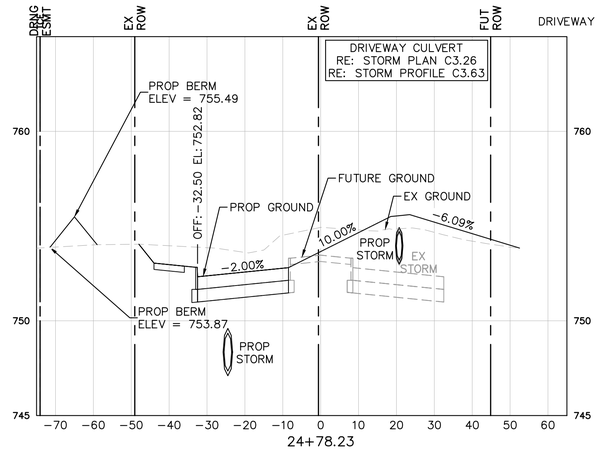
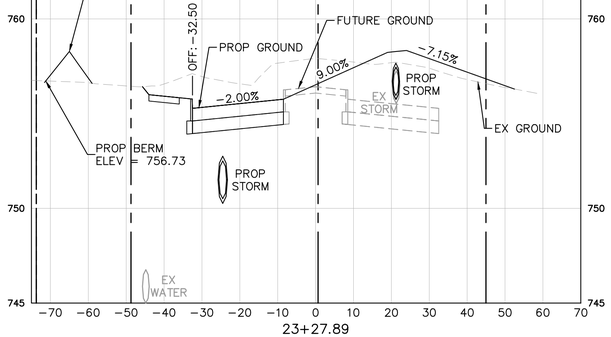


24+78.23



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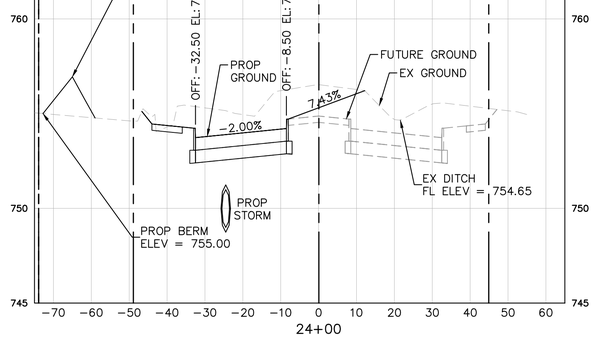
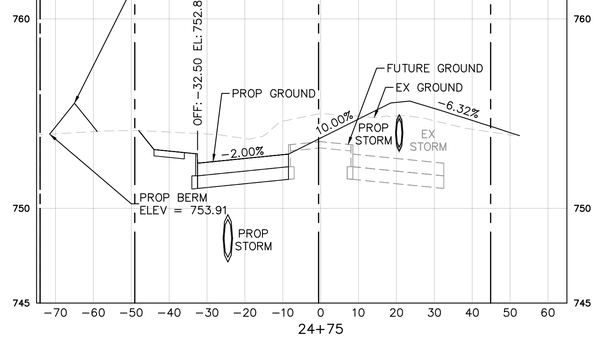
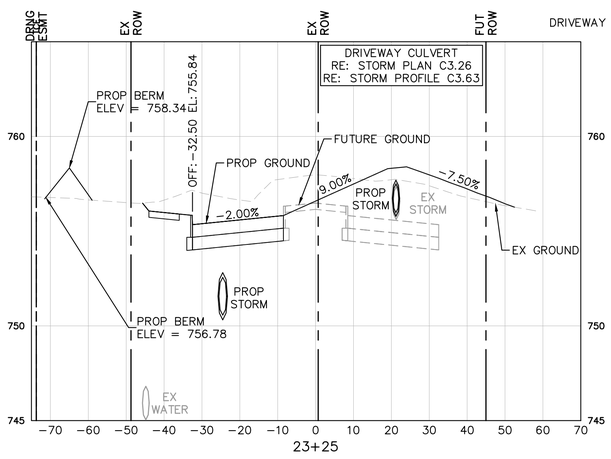


24+00



24+75



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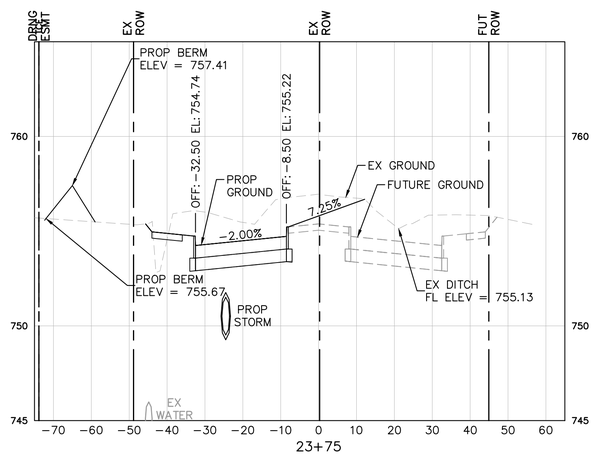

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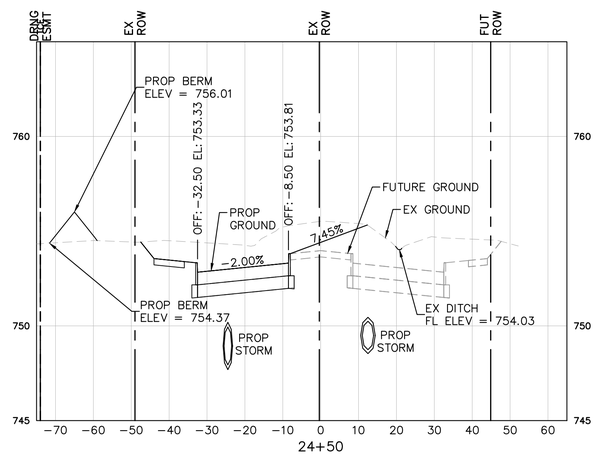

24+50

Plotted, By: 2026-08-21 11:15:12, Del Rosso, Austin
Last Saved: 2026-08-21 10:51:37 (STA 23+25 TO STA 24+78.23)
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Filename:

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

CROSS SECTIONS - STA
23+25 TO STA 24+78.23

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C1.53

2026-08-21 11:15:19, Del Rosso, Austin
Plotted, By: 2026-08-21 10:51:37 (STA 25+00 TO STA 27+00)
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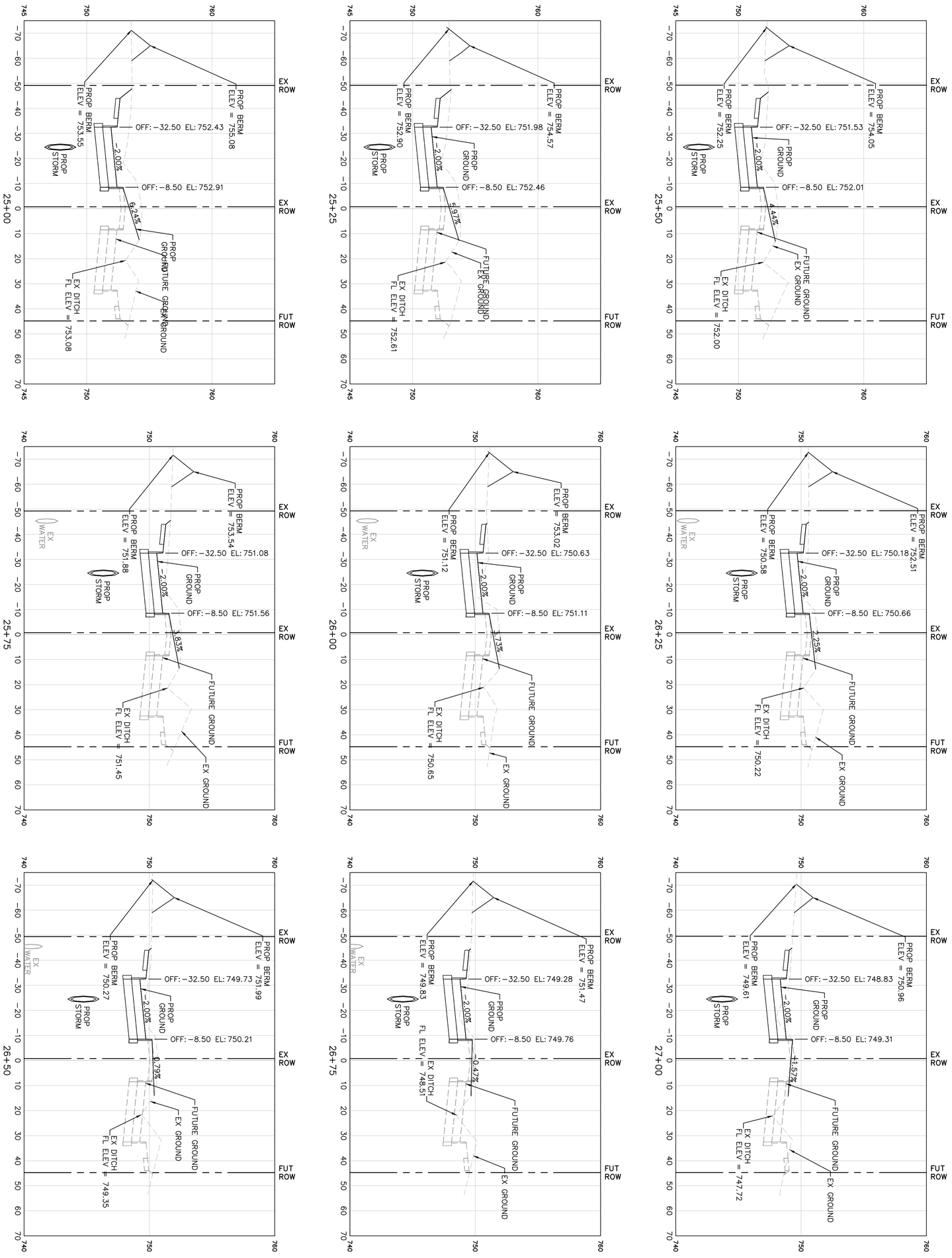

C1.54	SHEET NUMBER	DATE: AUGUST 2026 DESIGN: ALC DRAWN: JSE CHECKED: MDC KHA NO.: 061265047	CROSS SECTIONS - STA 25+00 TO STA 27+00	CITY OF MIDLOTHIAN MOCKINGBIRD LANE 2021 BOND PROJECT

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

2026-08-21 11:15:27, Del Rosso, Austin
Plotted, By: 2026-08-21 10:51:37 (STA 27+25 TO STA 29+25)
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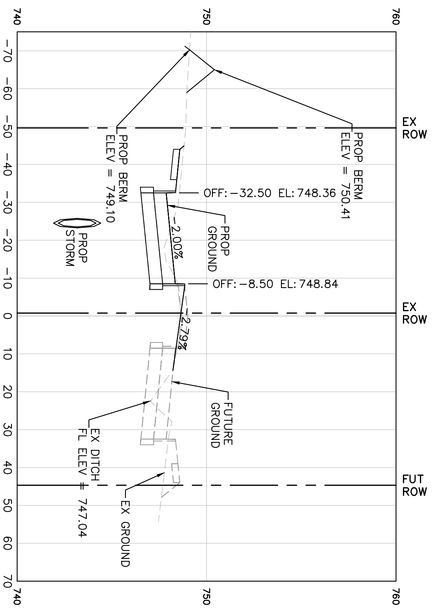

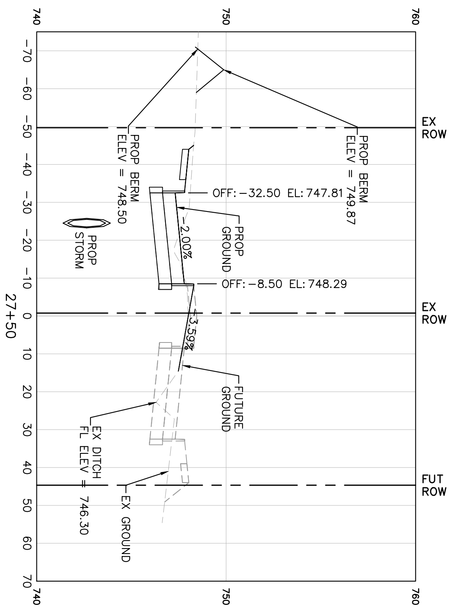

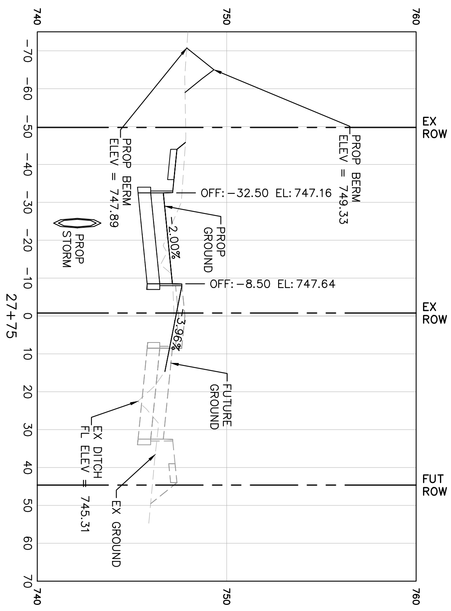

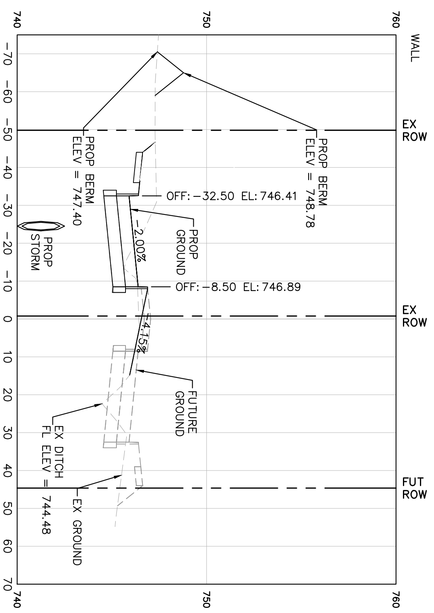

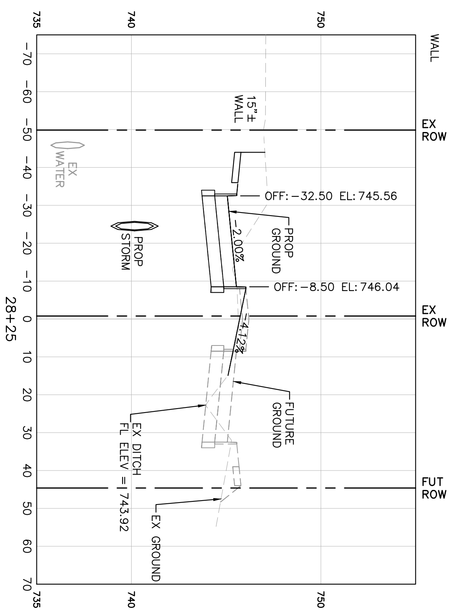

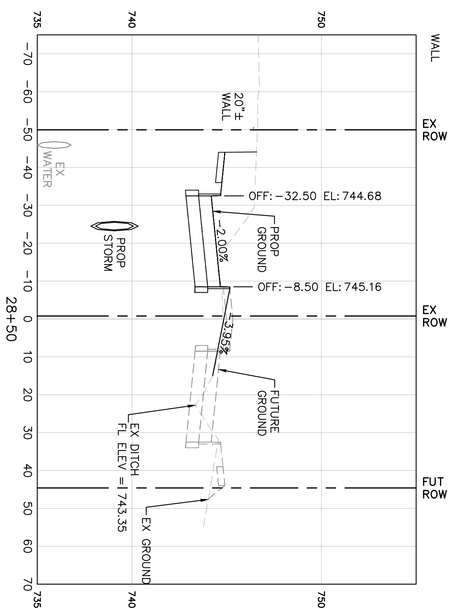

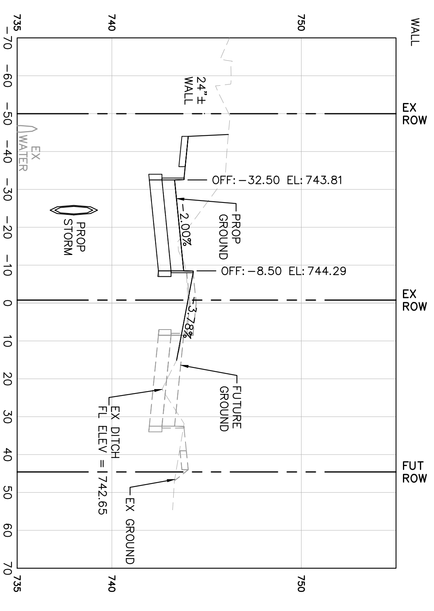

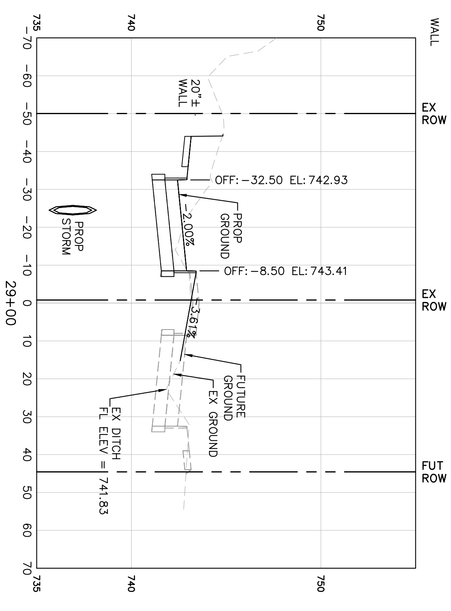

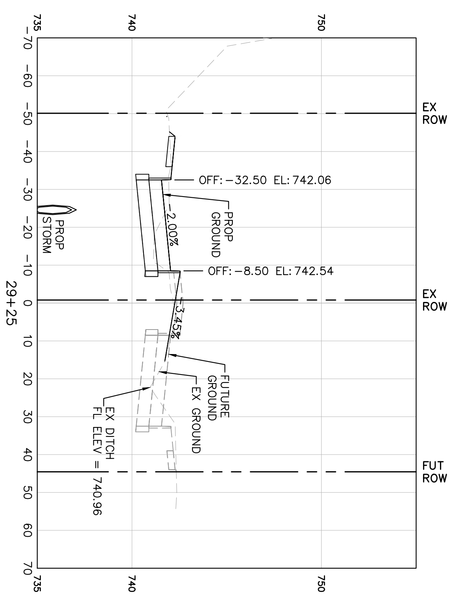

C1.55
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

CROSS SECTIONS - STA 27+25 TO STA 29+25

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

2026-08-21 11:15:34, Del Rosso, Austin
Plotted, By: 2026-08-21 10:51:37 (STA 29+33.68 TO STA 30+75)
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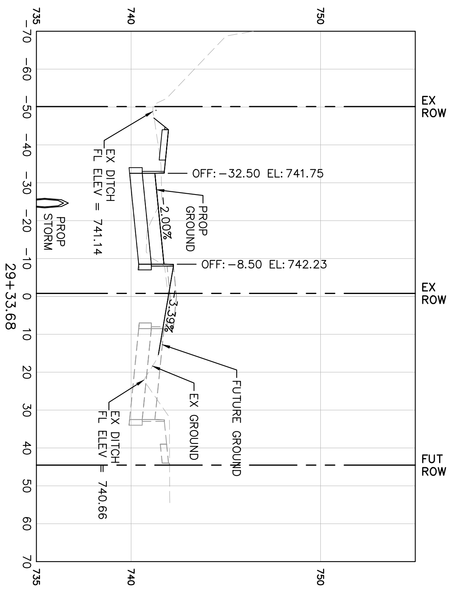
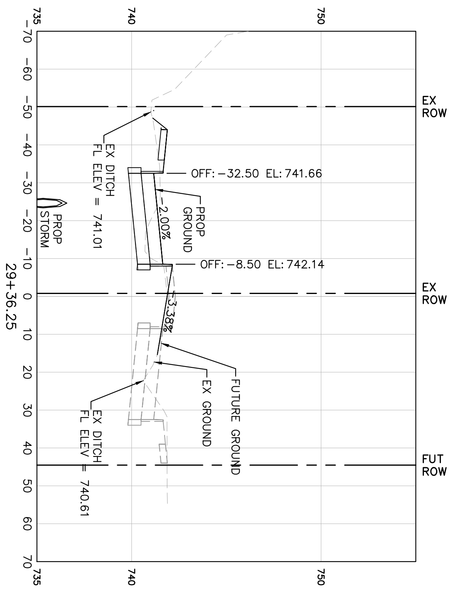
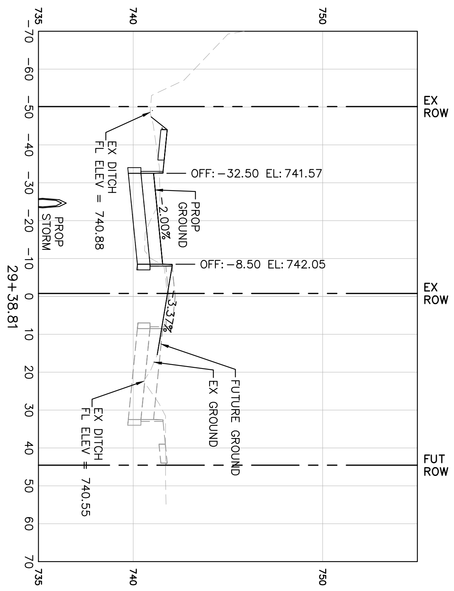
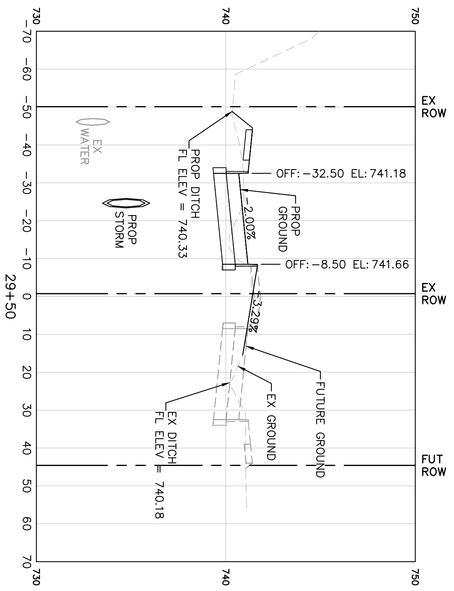
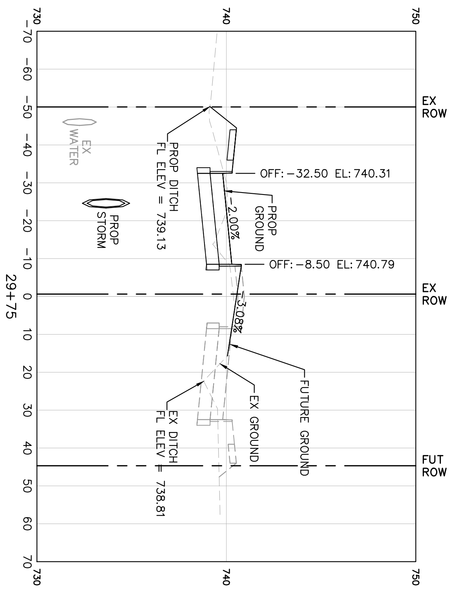
Filename: lane\cadd\design\ocorridor_begin to sta 36+00.dwg

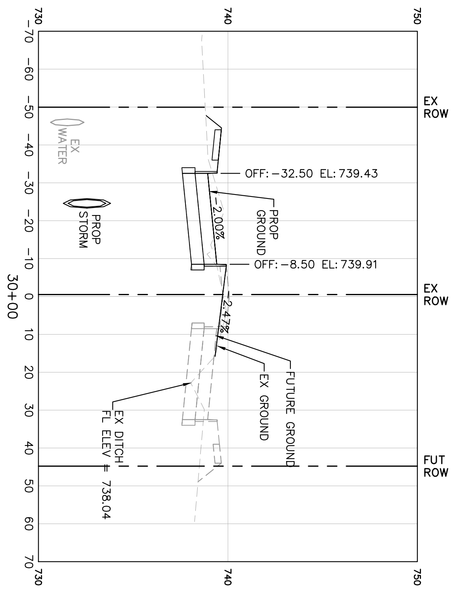


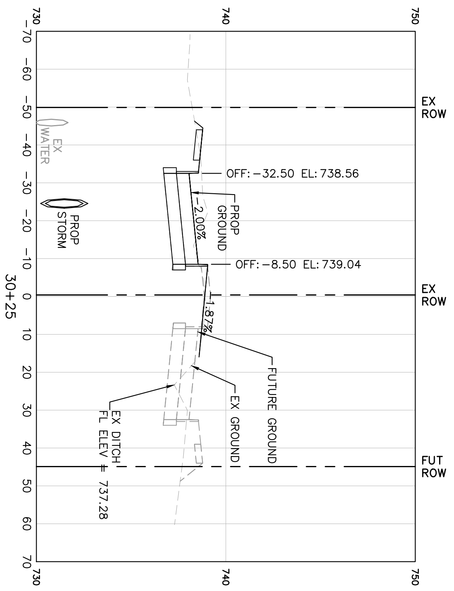


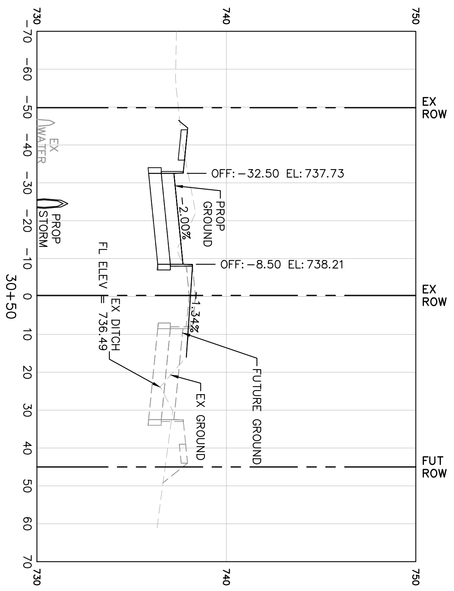


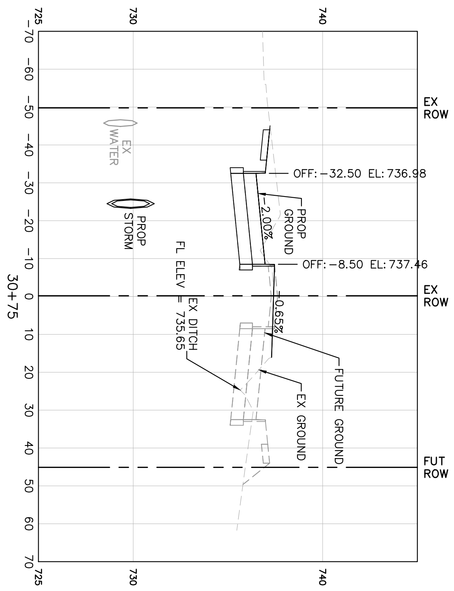












C1.56
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

CROSS SECTIONS - STA 29+33.68 TO STA 30+75

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

Plotted, By: 2026-08-21 11:15:41, Del Rosso, Austin
Last Saved: 2026-08-21 10:51:37 (STA 31+00 TO STA 33+00)
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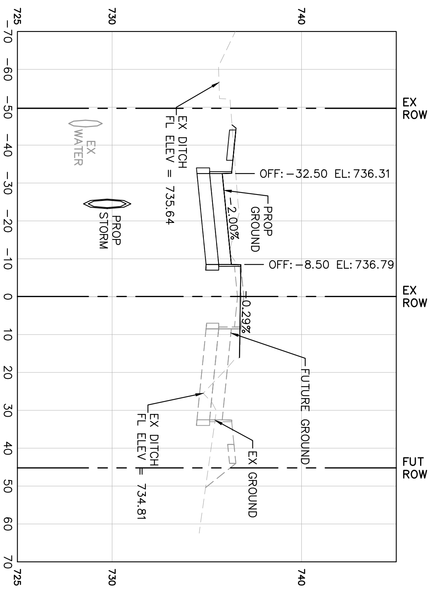
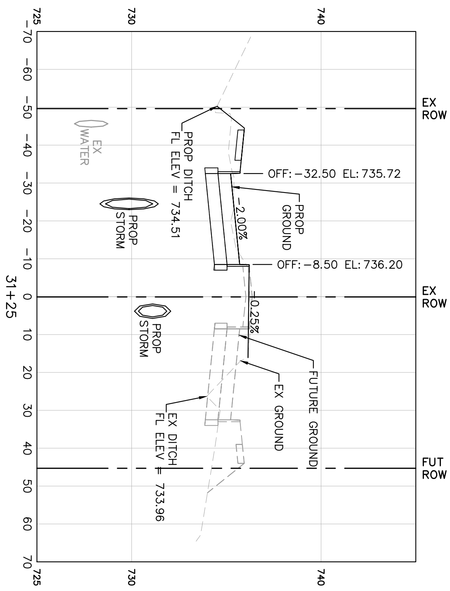
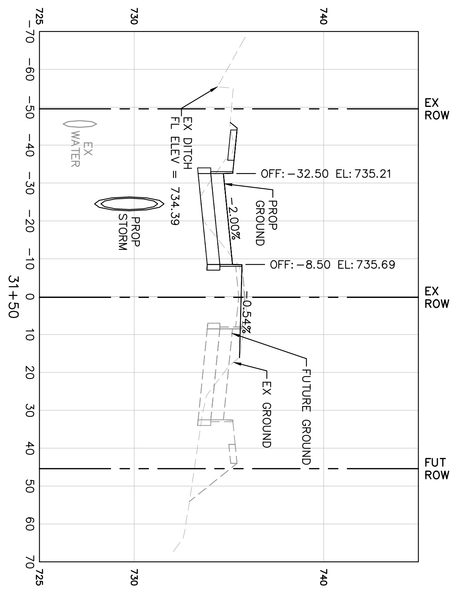
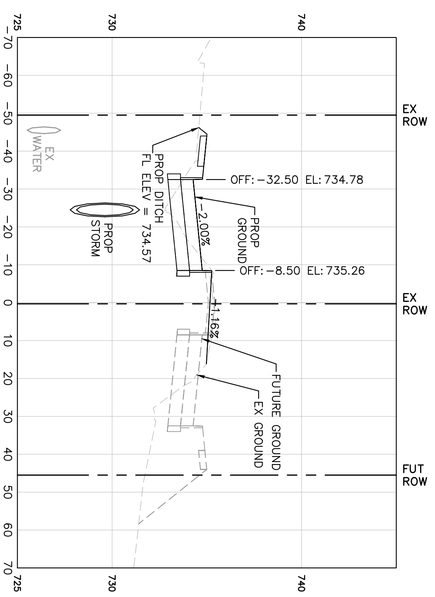
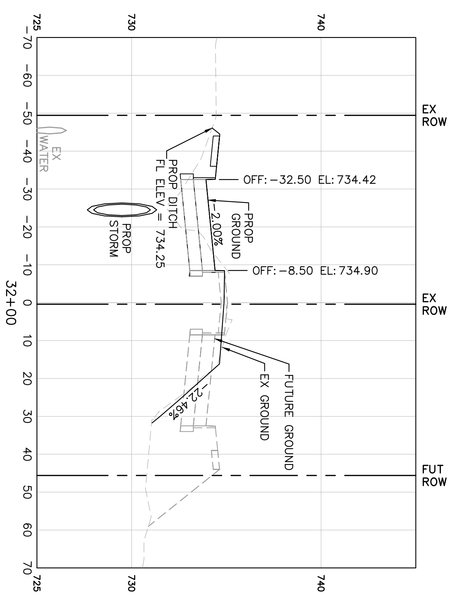
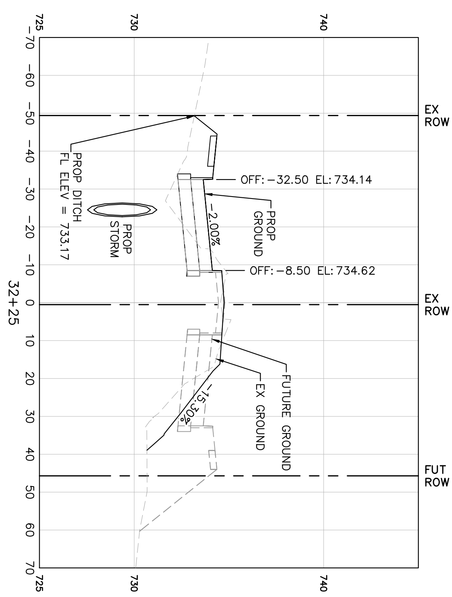


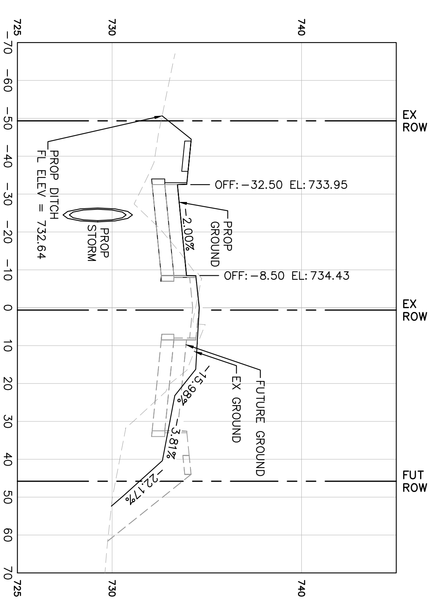


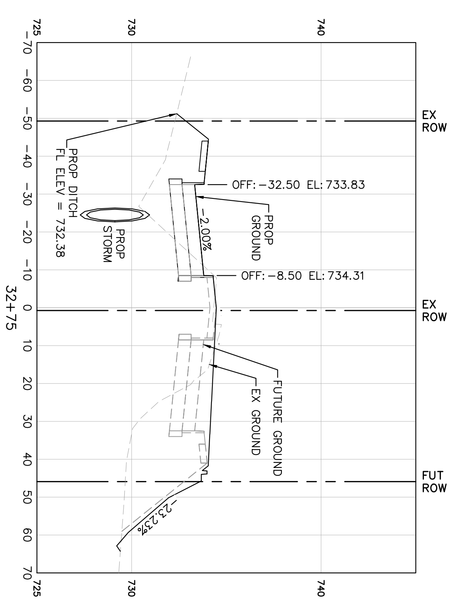


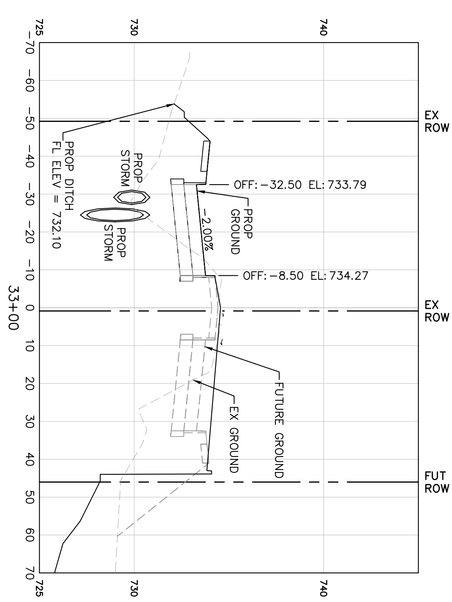












C1.57
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

CROSS SECTIONS - STA 31+00 TO STA 33+00

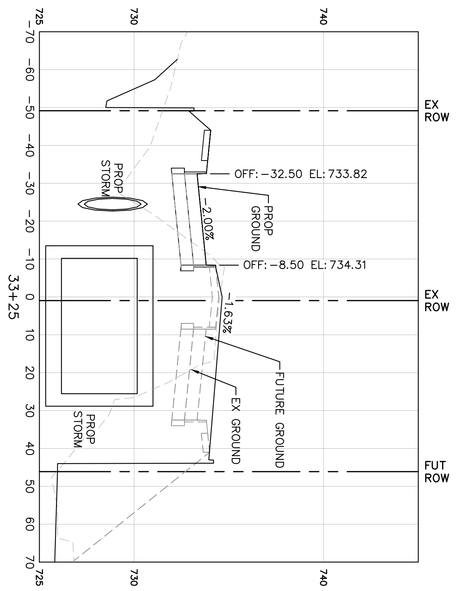
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

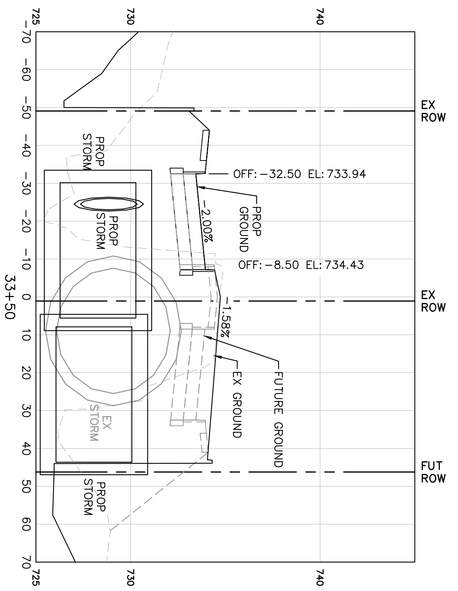
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

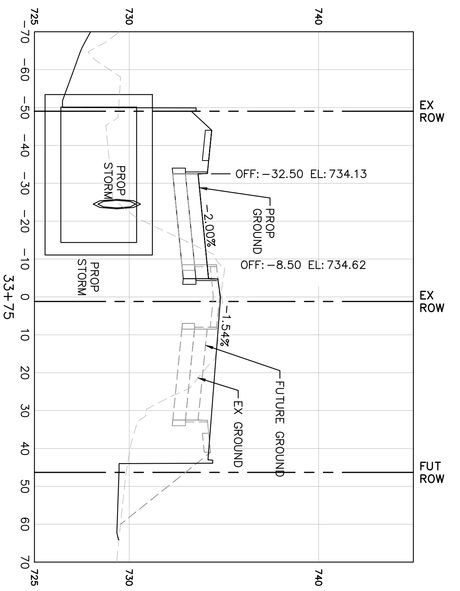
Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

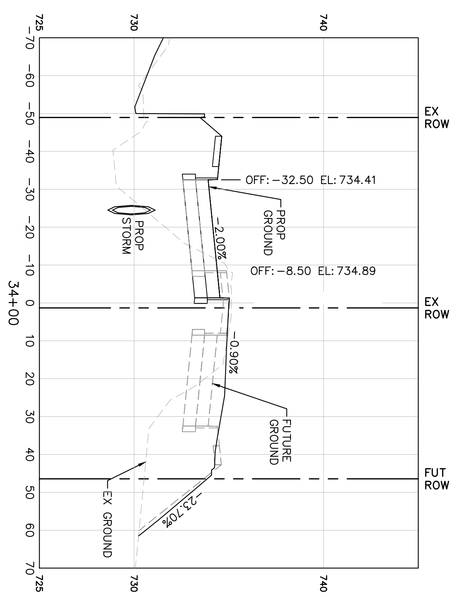
No.	Revision	By	Date

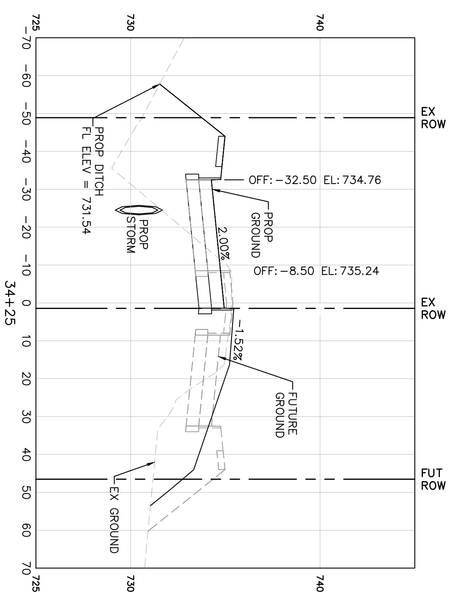
Plotted, By: 2026-08-21 11:15:48, Del Rosso, Austin
Last Saved: 2026-08-21 10:51:37 (STA 33+25 TO STA 35+25)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\design\ocorridor_begin to sta 36+00.dwg

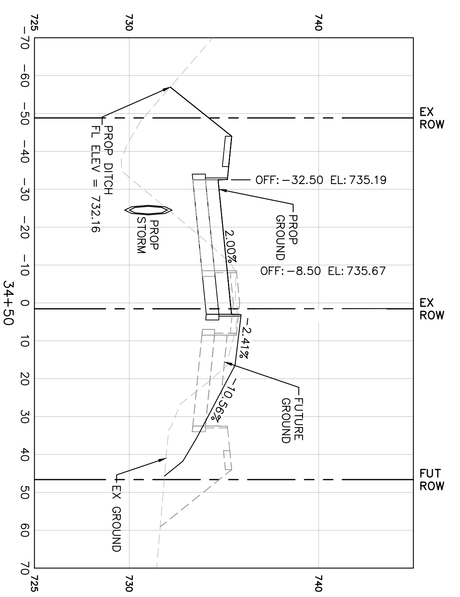


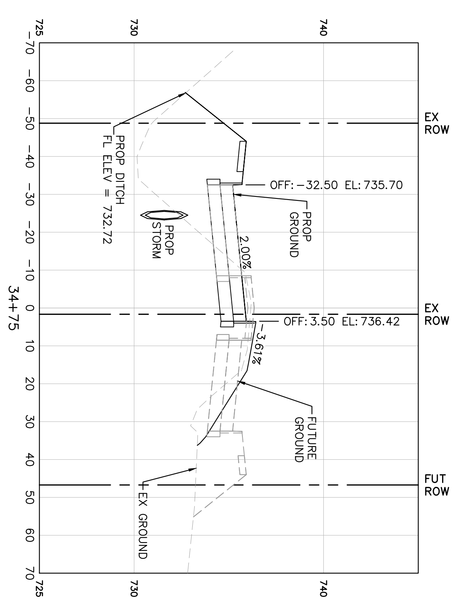


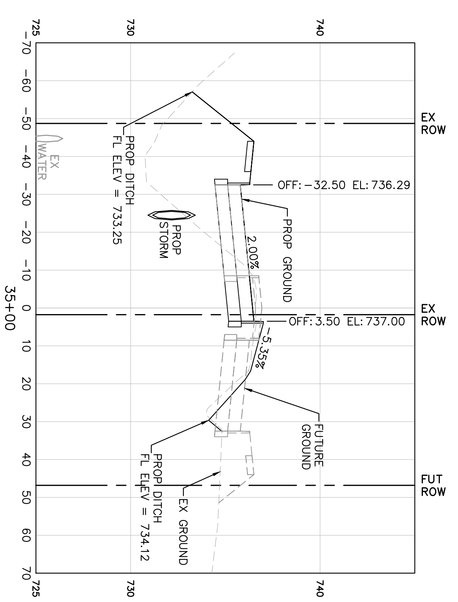


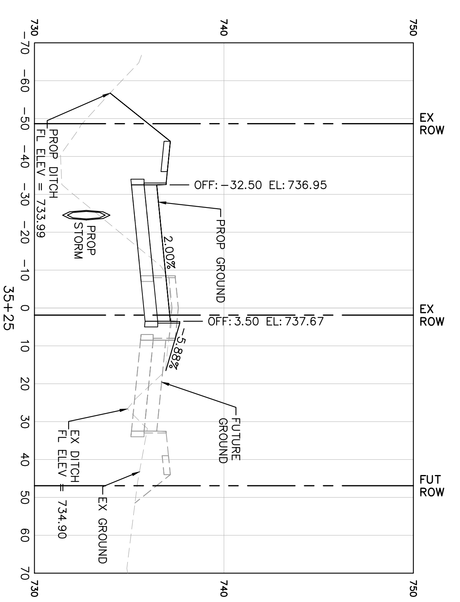












C1.58
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

CROSS SECTIONS - STA 33+25 TO STA 35+25

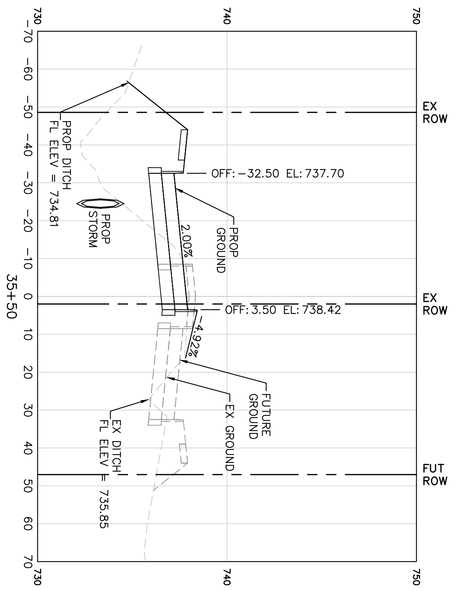
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

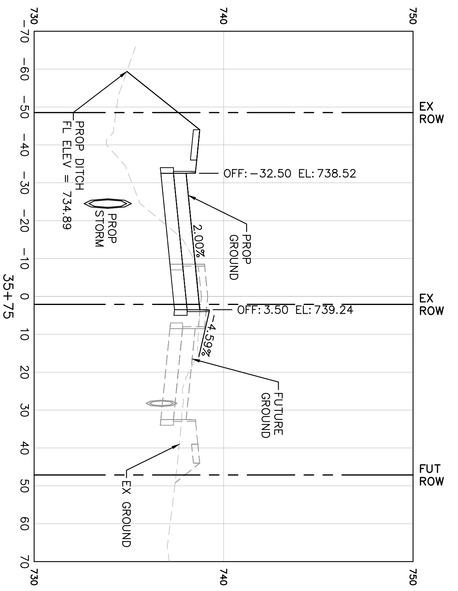
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

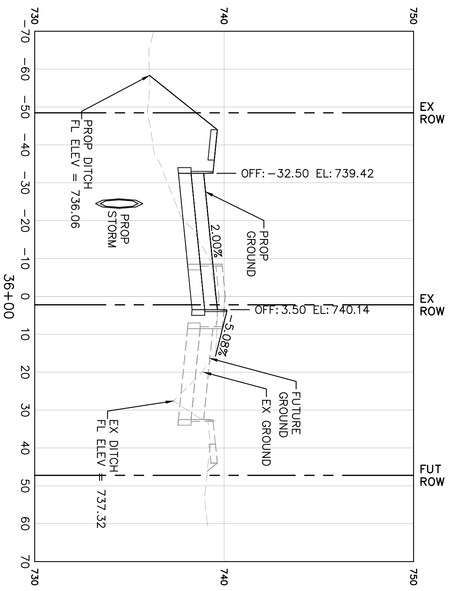
Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

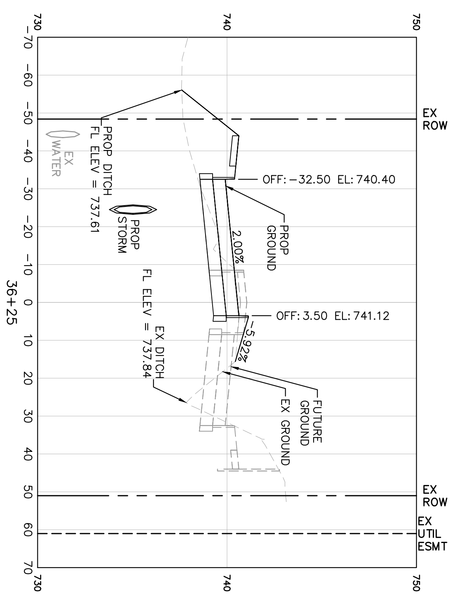
No.	Revision	By	Date

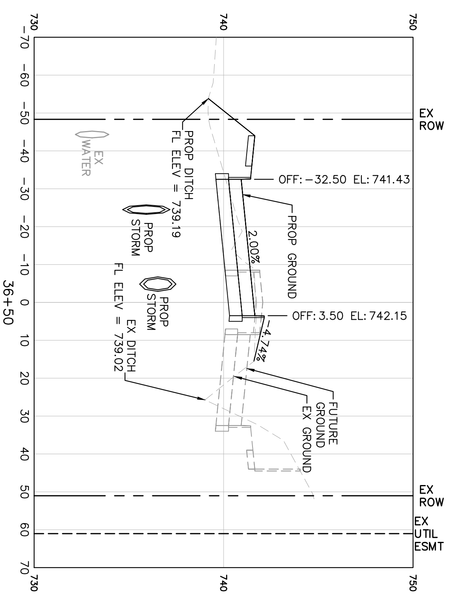
2026-08-21 11:16:31, Del Rosso, Austin
2026-08-21 09:19:41 (CROSS SECTIONS - STA 35+50 TO STA 37+43)
Plotted, By:
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird
Filename: lane\cadd\design\ocorridor_sta 36+00 to sta 72+00.dwg

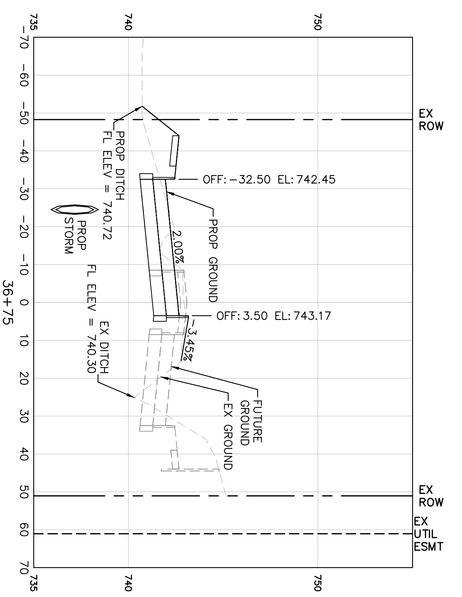


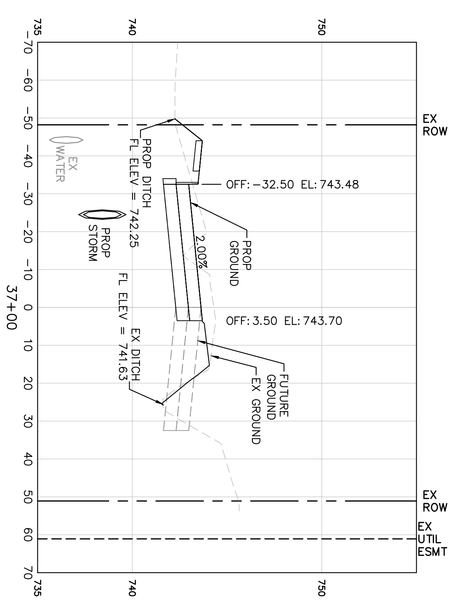


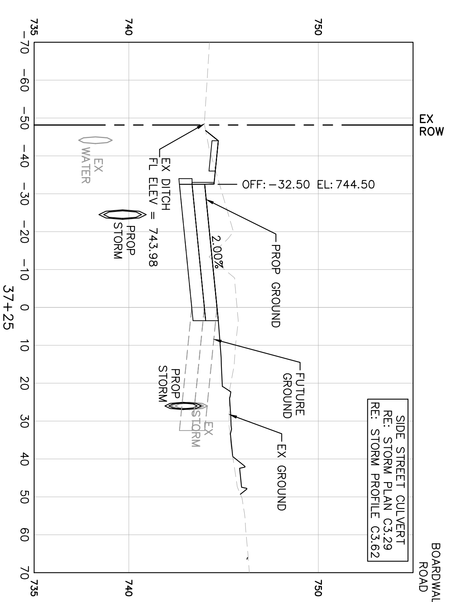


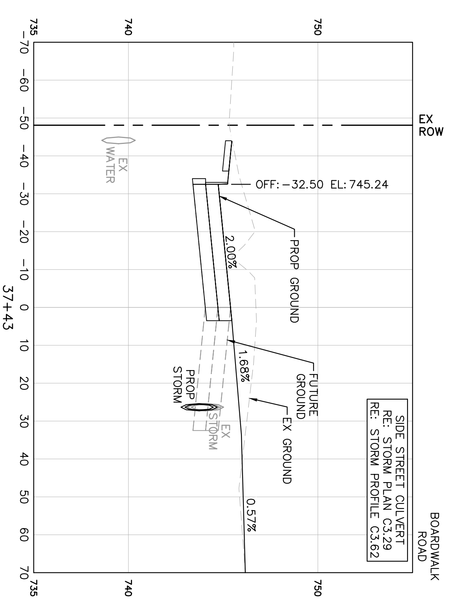












C1.59
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

CROSS SECTIONS - STA 35+50 TO STA 37+43

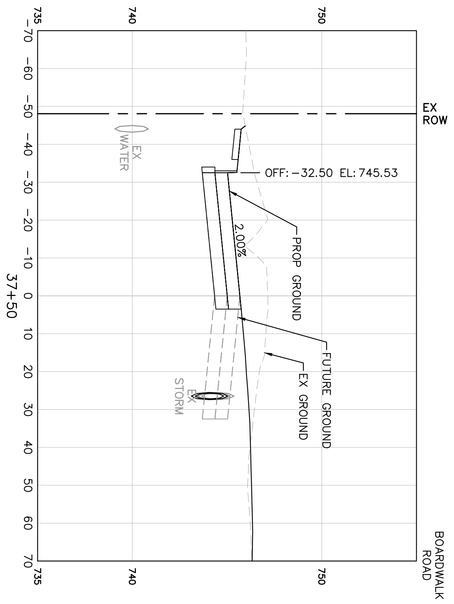
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

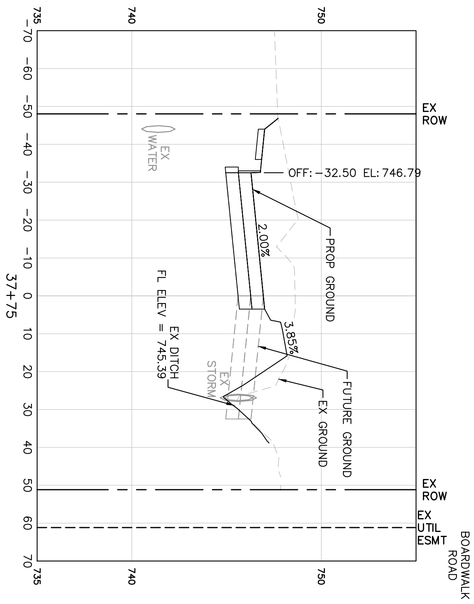
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

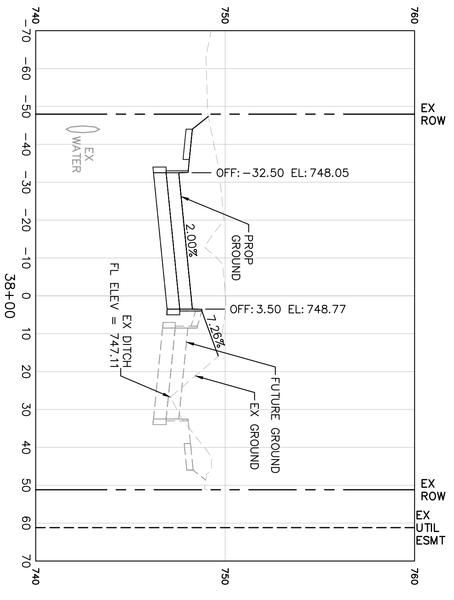
Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

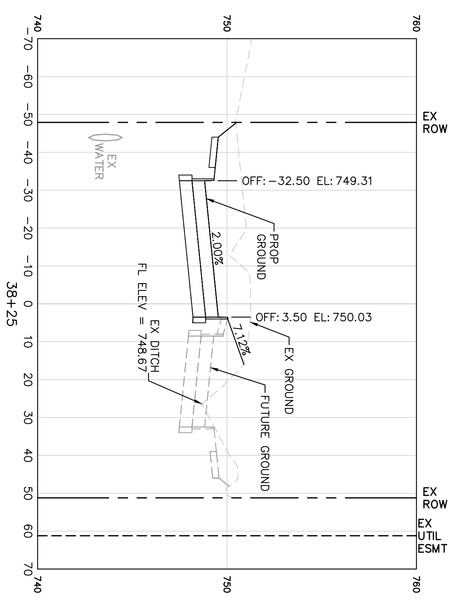
No.	Revision	By	Date

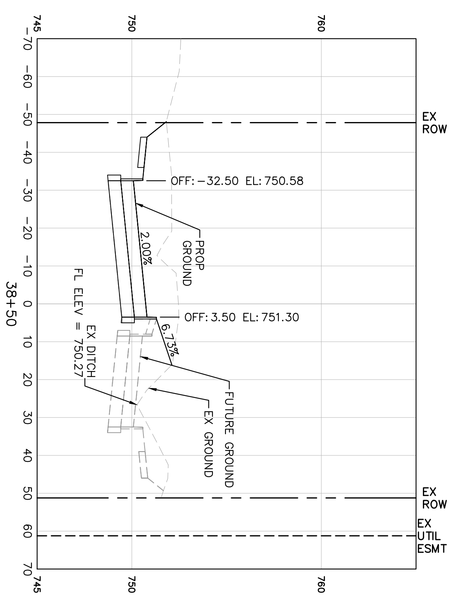
2026-08-21 11:16:41, Del Rosso, Austin
2026-08-21 09:19:41 (CROSS SECTIONS - STA 37+50 TO STA 39+50)
Plotted, By:
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird
Filename: lane\cadd\design\ocorridor_sta 36+00 to sta 72+00.dwg

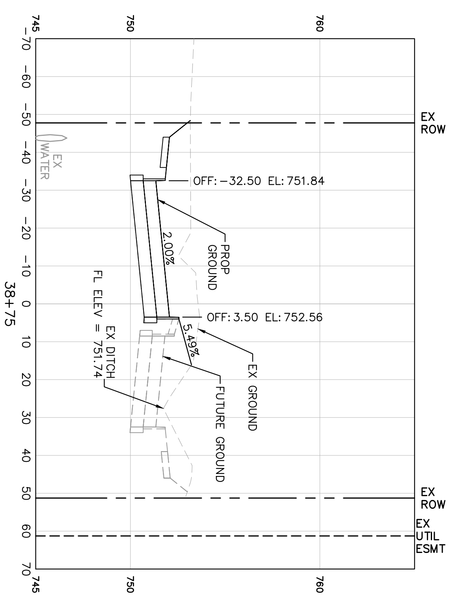


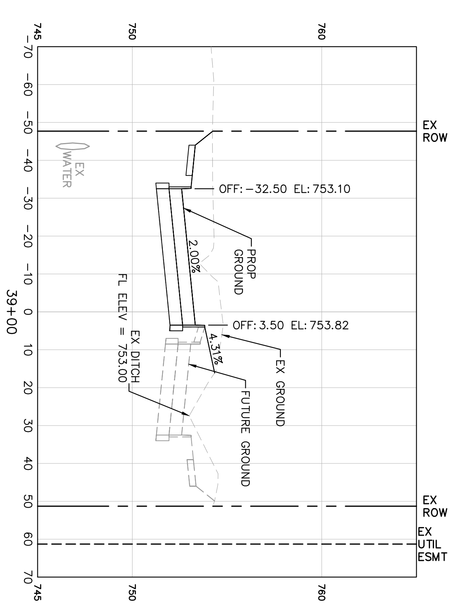


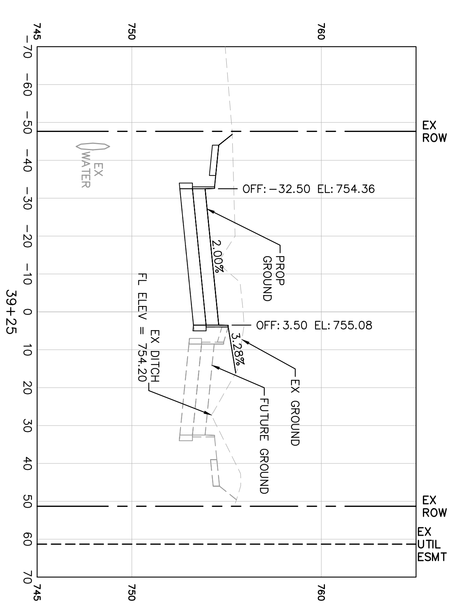


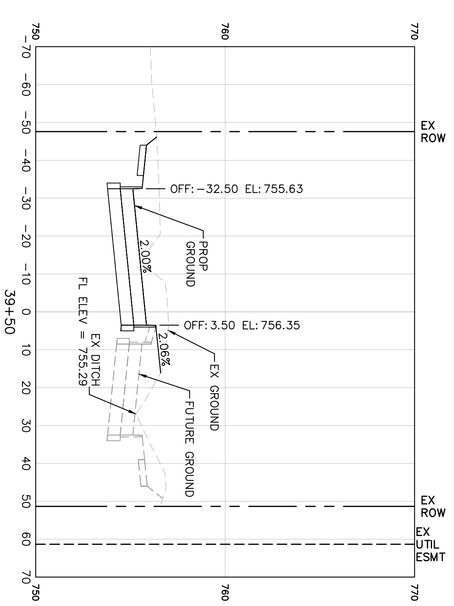












C1.60
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

CROSS SECTIONS - STA 37+50 TO STA 39+50

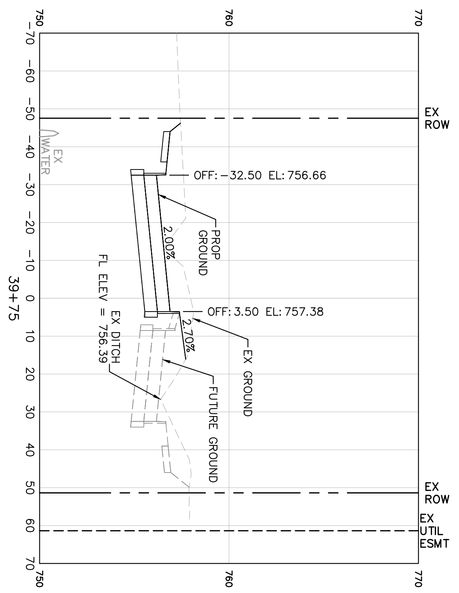
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

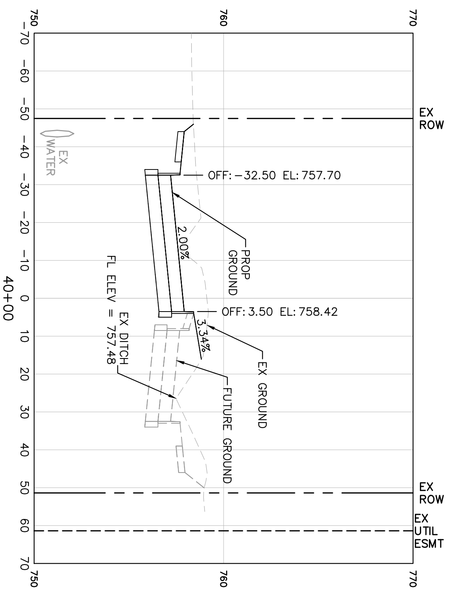
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

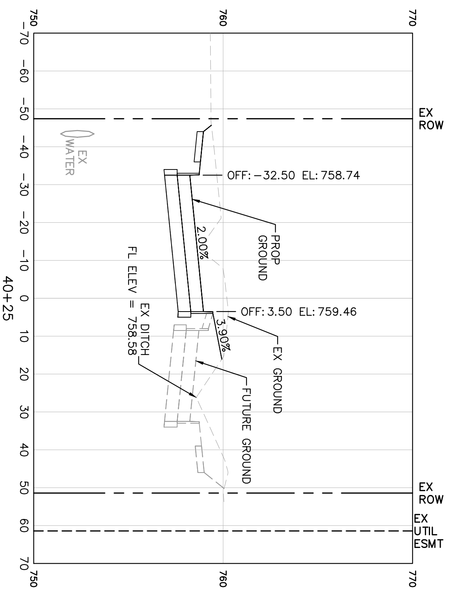
Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

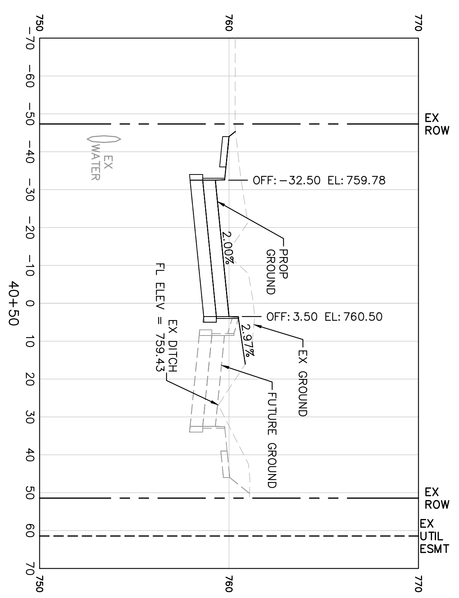
No.	Revision	By	Date

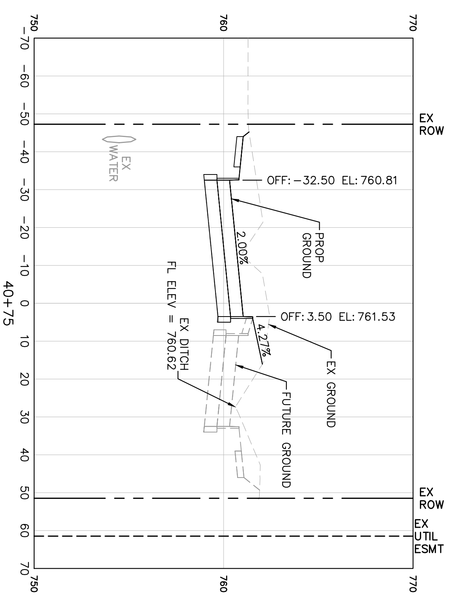
2026-08-21 11:16:50, Del Rosso, Austin
Plotted, By: 2026-08-21 09:19:41 (CROSS SECTIONS - STA 39+75 TO STA 41+75)
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird
Filename: lane\cadd\design\ocorridor_sta 36+00 to sta 72+00.dwg

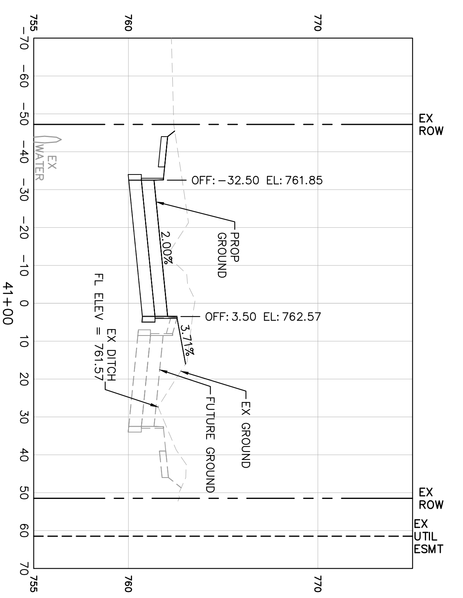


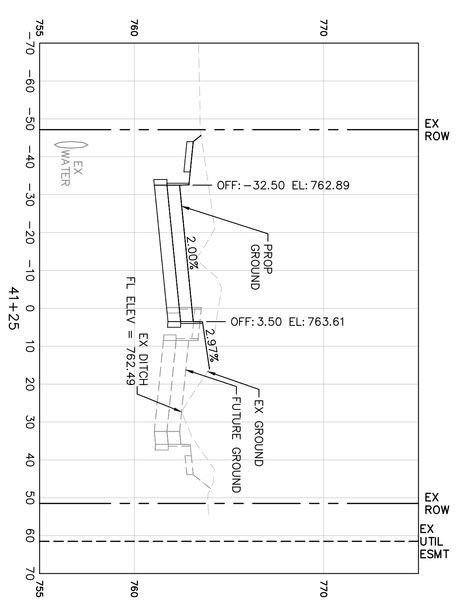


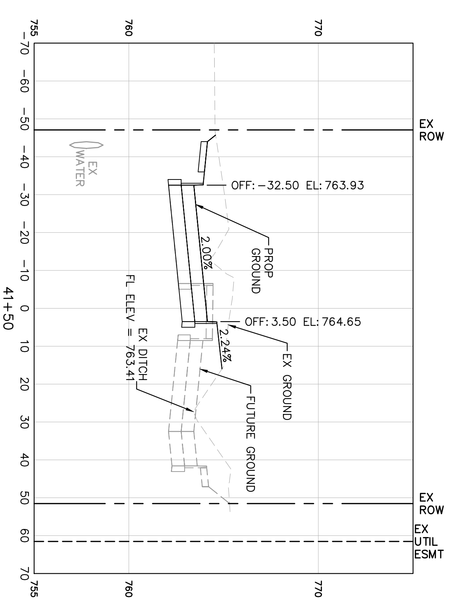


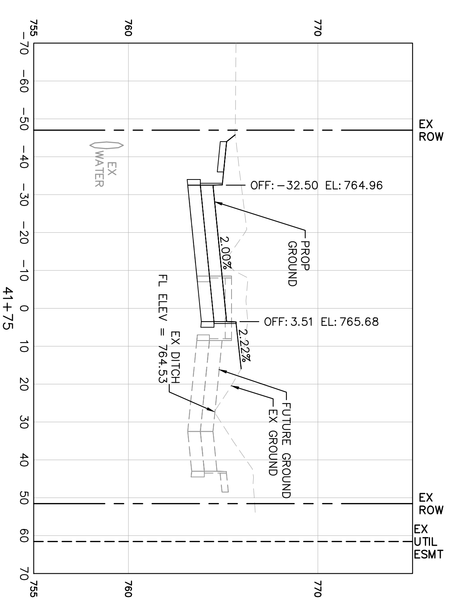












C1.61
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

CROSS SECTIONS - STA 39+75 TO STA 41+75

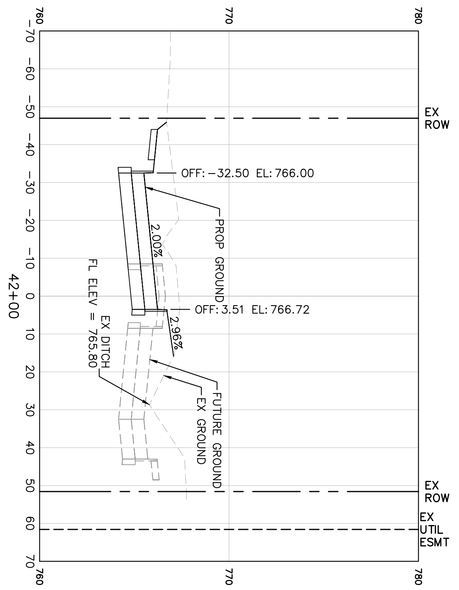
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

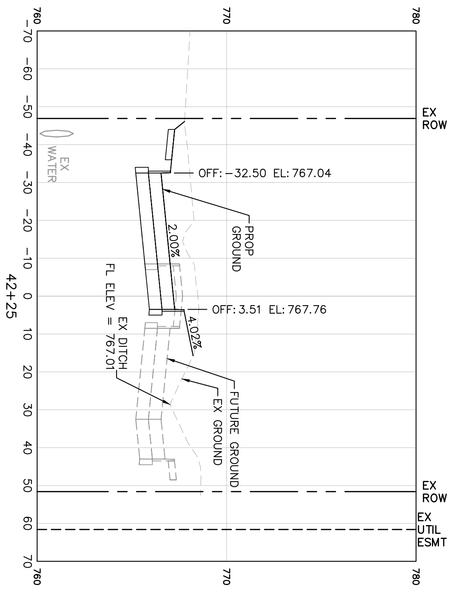
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

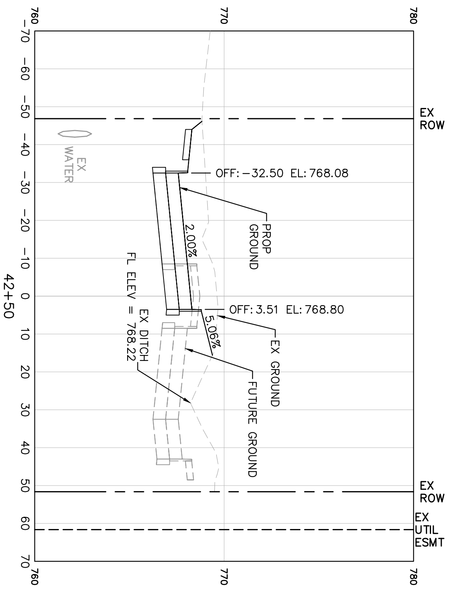
Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

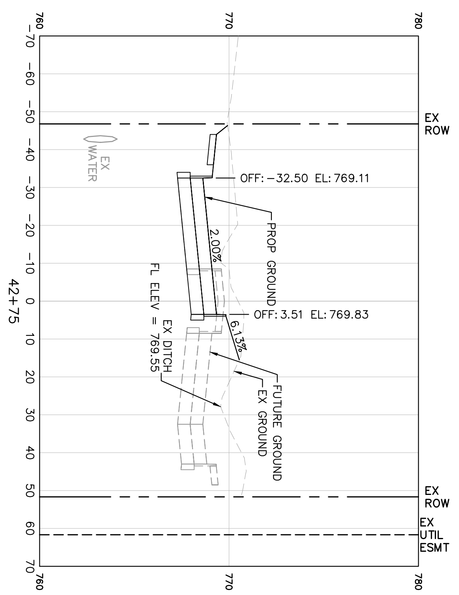
No.	Revision	By	Date

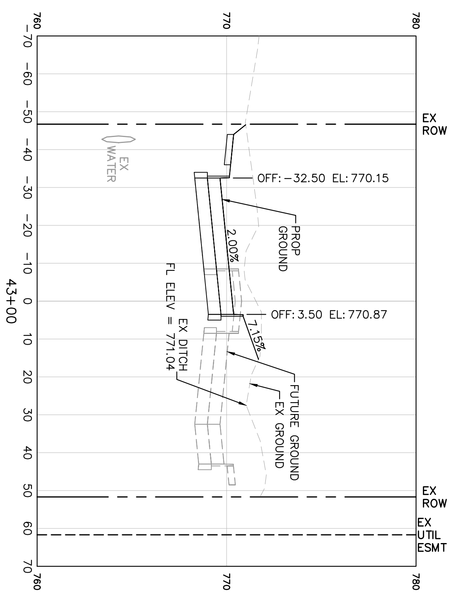
2026-08-21 11:16:59, Del Rosso, Austin
2026-08-21 09:19:41 (CROSS SECTIONS - STA 42+00 TO STA 43+89.19)
Plotted, By:
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\design\ocorridor_sta 36+00 to sta 72+00.dwg
Filename:

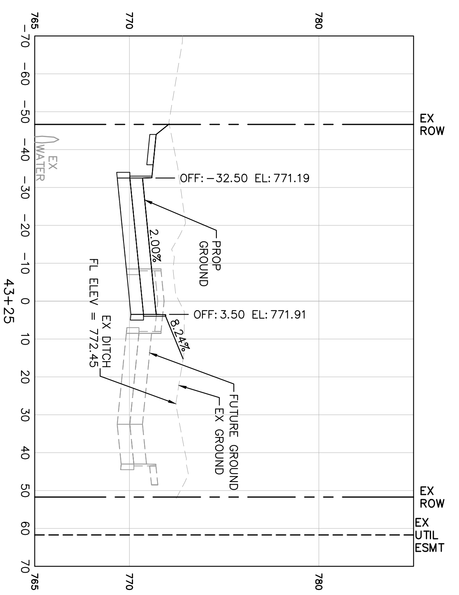


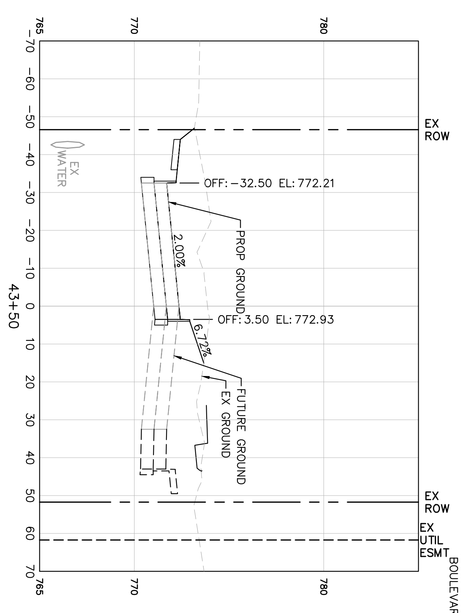


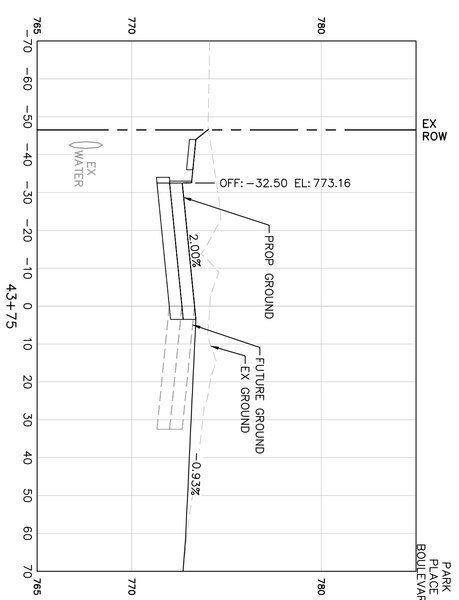


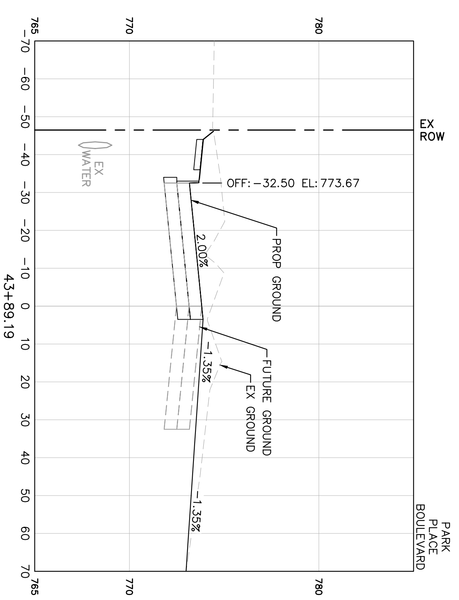












C1.62
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

CROSS SECTIONS - STA 42+00 TO STA 43+89.19

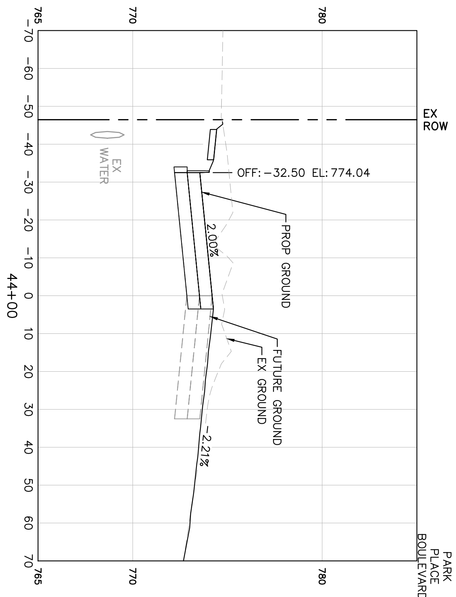
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

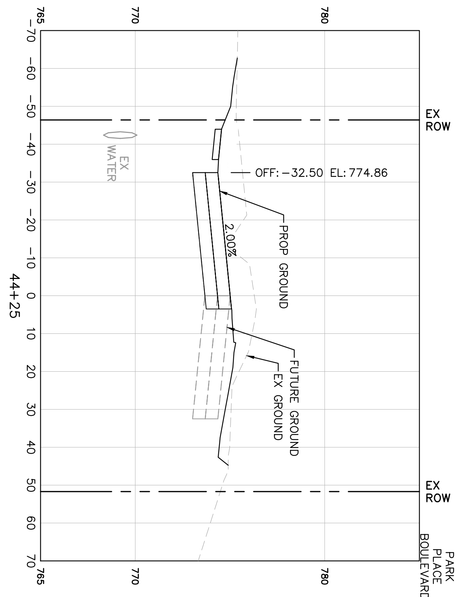
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

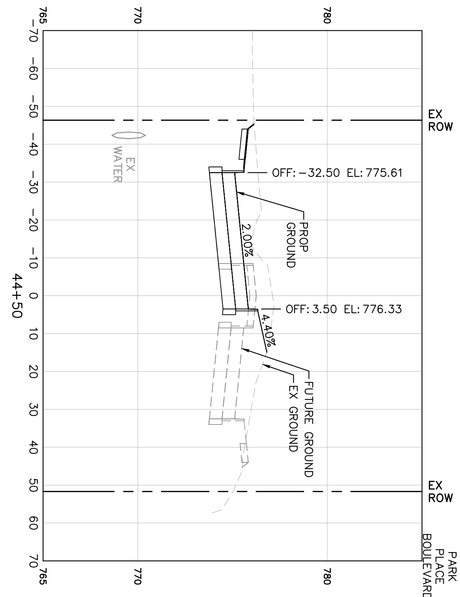
Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

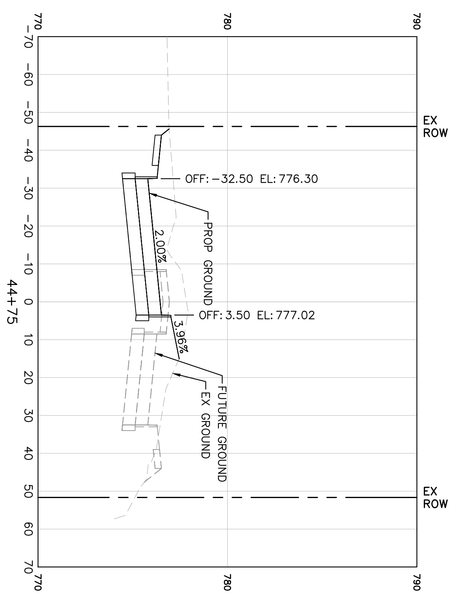
No.	Revision	By	Date

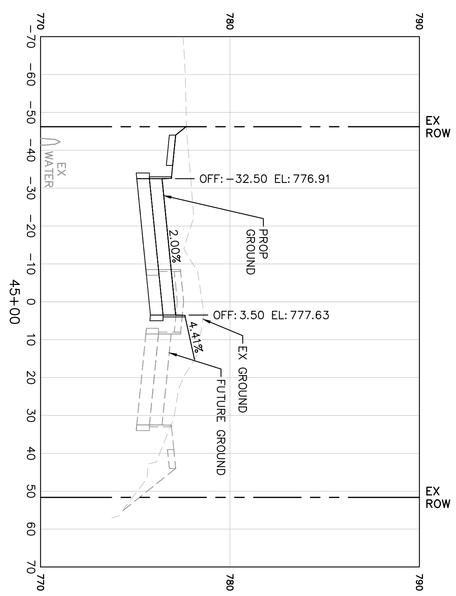
2026-08-21 11:17:10, Del Rosso, Austin
2026-08-21 09:19:41 (CROSS SECTIONS - STA 44+00 TO STA 46+00)
Plotted, By:
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird
Filename: lane\cadd\design\ocorridor_sta 36+00 to sta 72+00.dwg

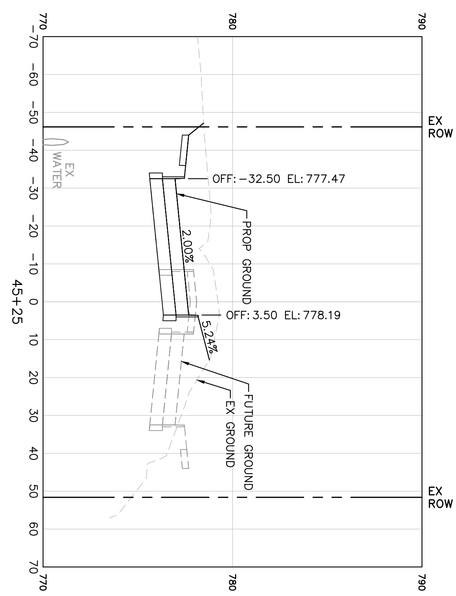


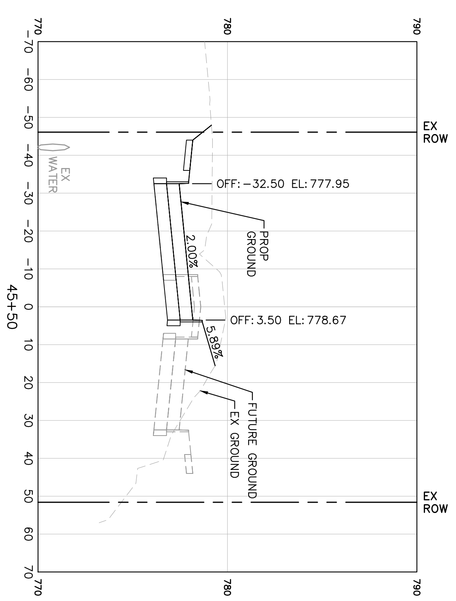


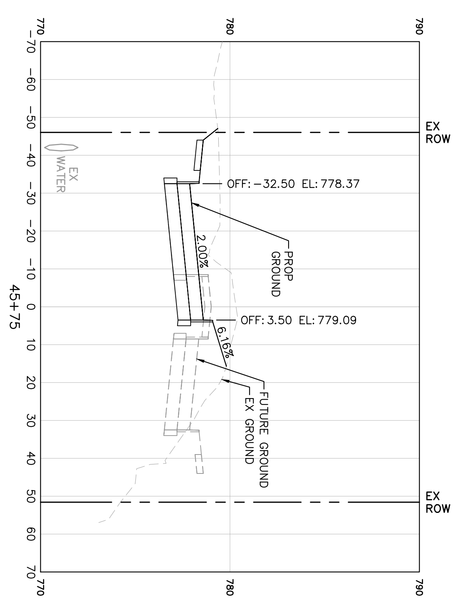


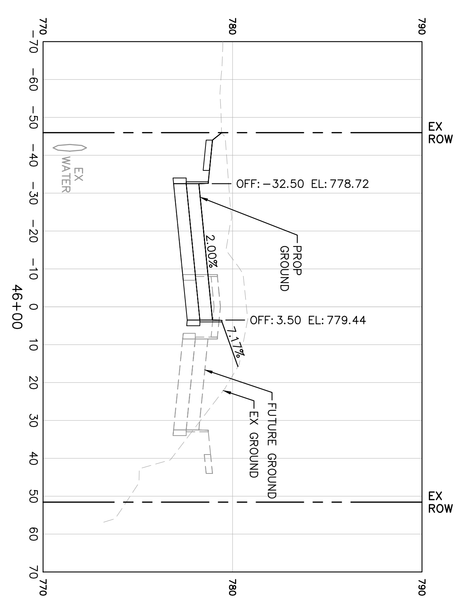












C1.63
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

CROSS SECTIONS - STA 44+00 TO STA 46+00

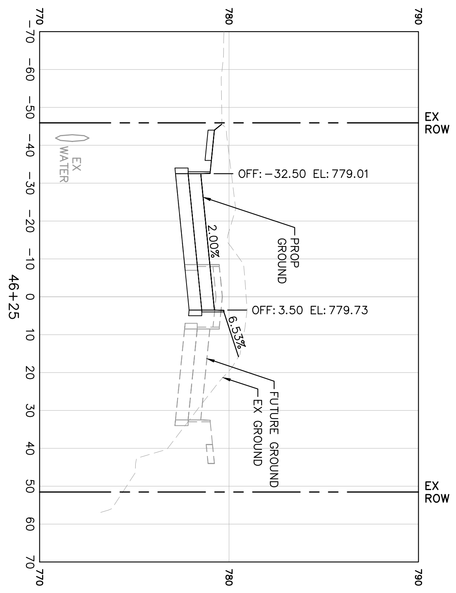
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

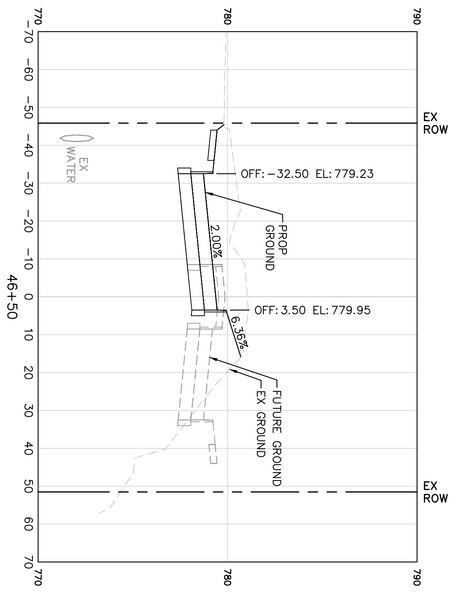
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

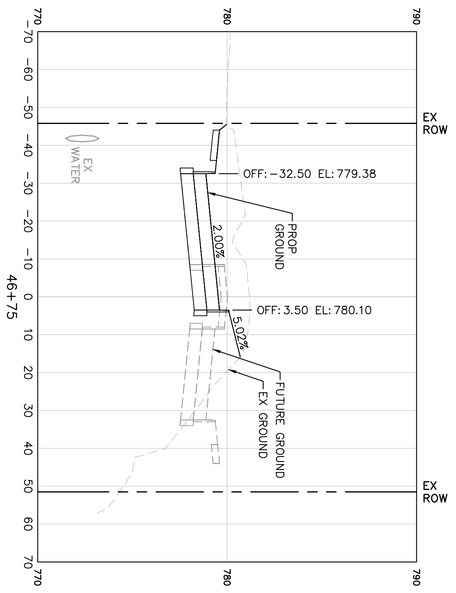
Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

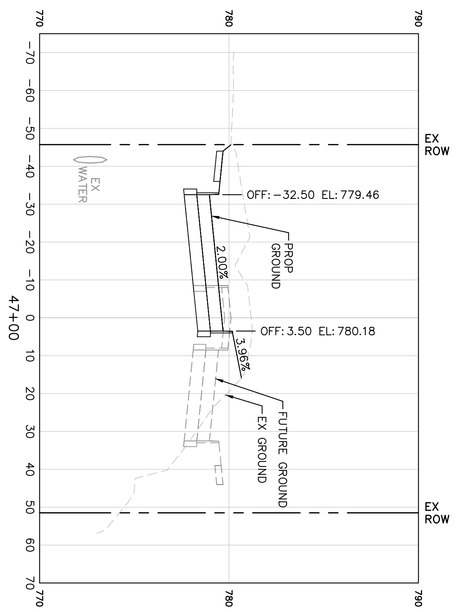
No.	Revision	By	Date

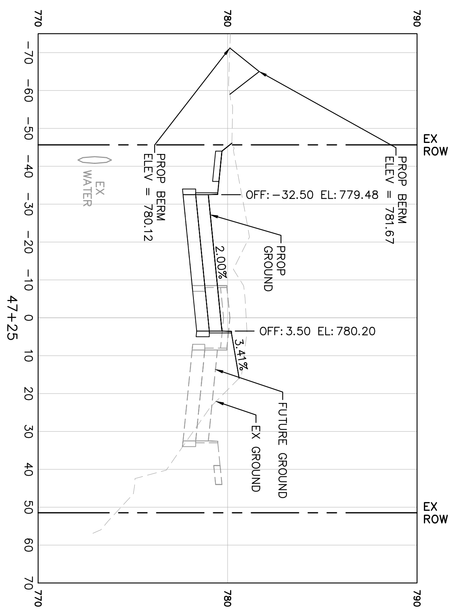
2026-08-21 11:17:20, Del Rosso, Austin
2026-08-21 09:19:41 (CROSS SECTIONS - STA 46+25 TO STA 48+25)
Plotted, By:
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird
Filename: lane\cadd\design\ccorridor_sta 36+00 to sta 72+00.dwg

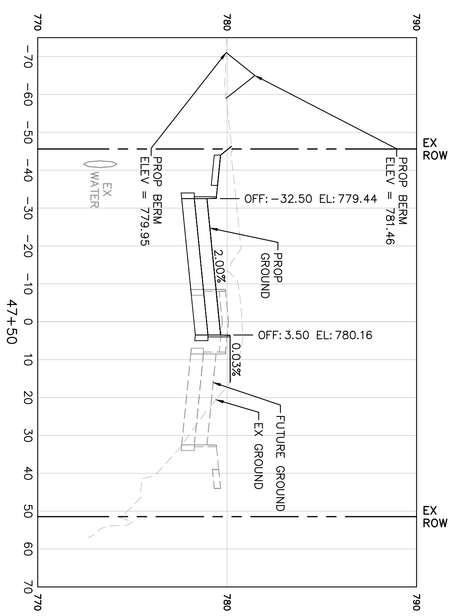


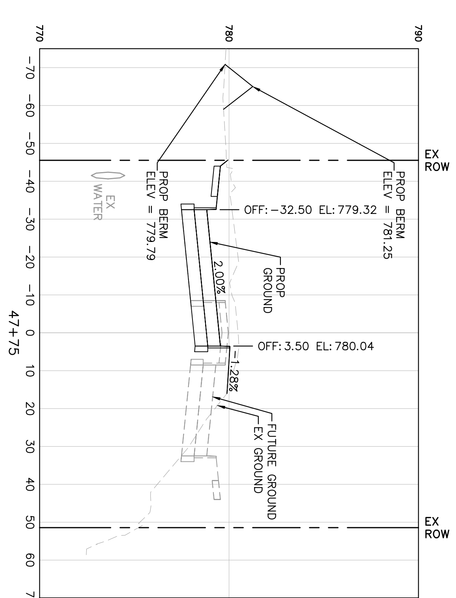


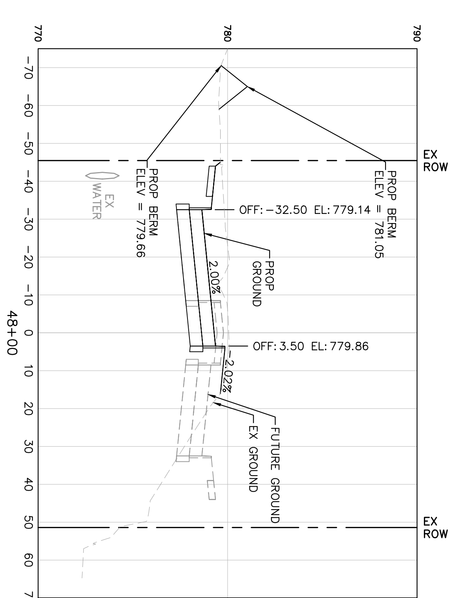


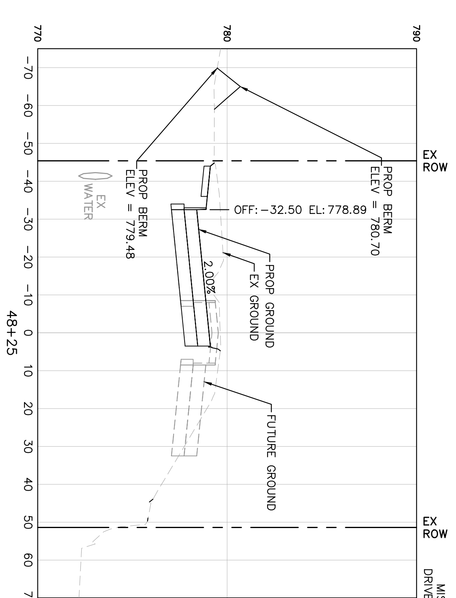












C1.64
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

CROSS SECTIONS - STA 46+25 TO STA 48+25

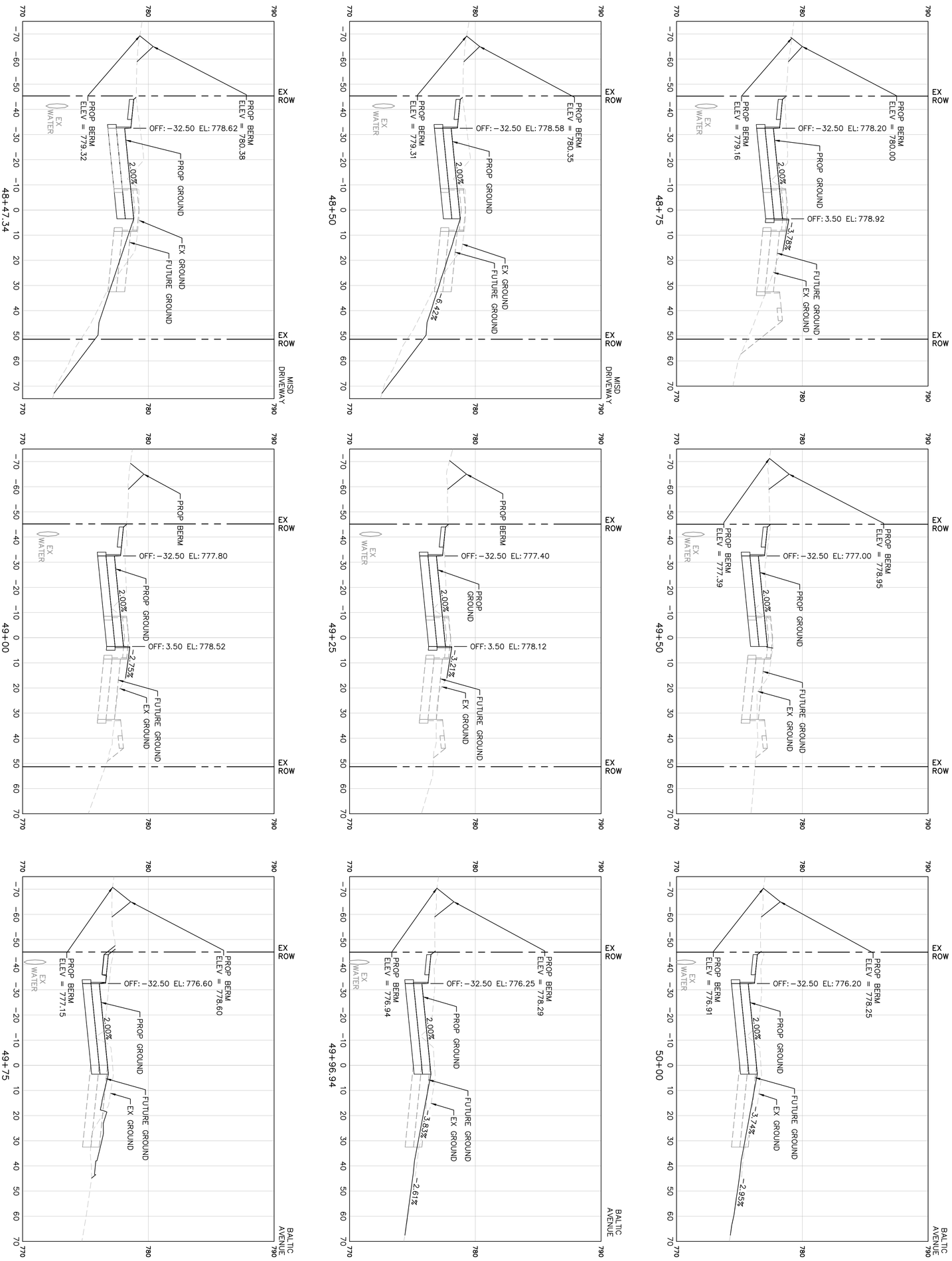
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

2026-08-21 11:17:30, Del Rosso, Austin
2026-08-21 09:19:41 (CROSS SECTIONS - STA 48+47.34
Plotted, By: TO STA 50+00)
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird
Filename: lane\cadd\design\ocorridor_sta 36+00 to sta 72+00.dwg



C1.65	DATE: AUGUST 2026 DESIGN: ALC DRAWN: JSE CHECKED: MDC KHA NO.: 061265047	CROSS SECTIONS - STA 48+47.34 TO STA 50+00	CITY OF MIDLOTHIAN MOCKINGBIRD LANE 2021 BOND PROJECT

SHEET NUMBER

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

2026-08-21 11:17:40, Del Rosso, Austin
2026-08-21 09:19:41 (CROSS SECTIONS - STA 50+25 TO STA 52+00)
Plotted, By:
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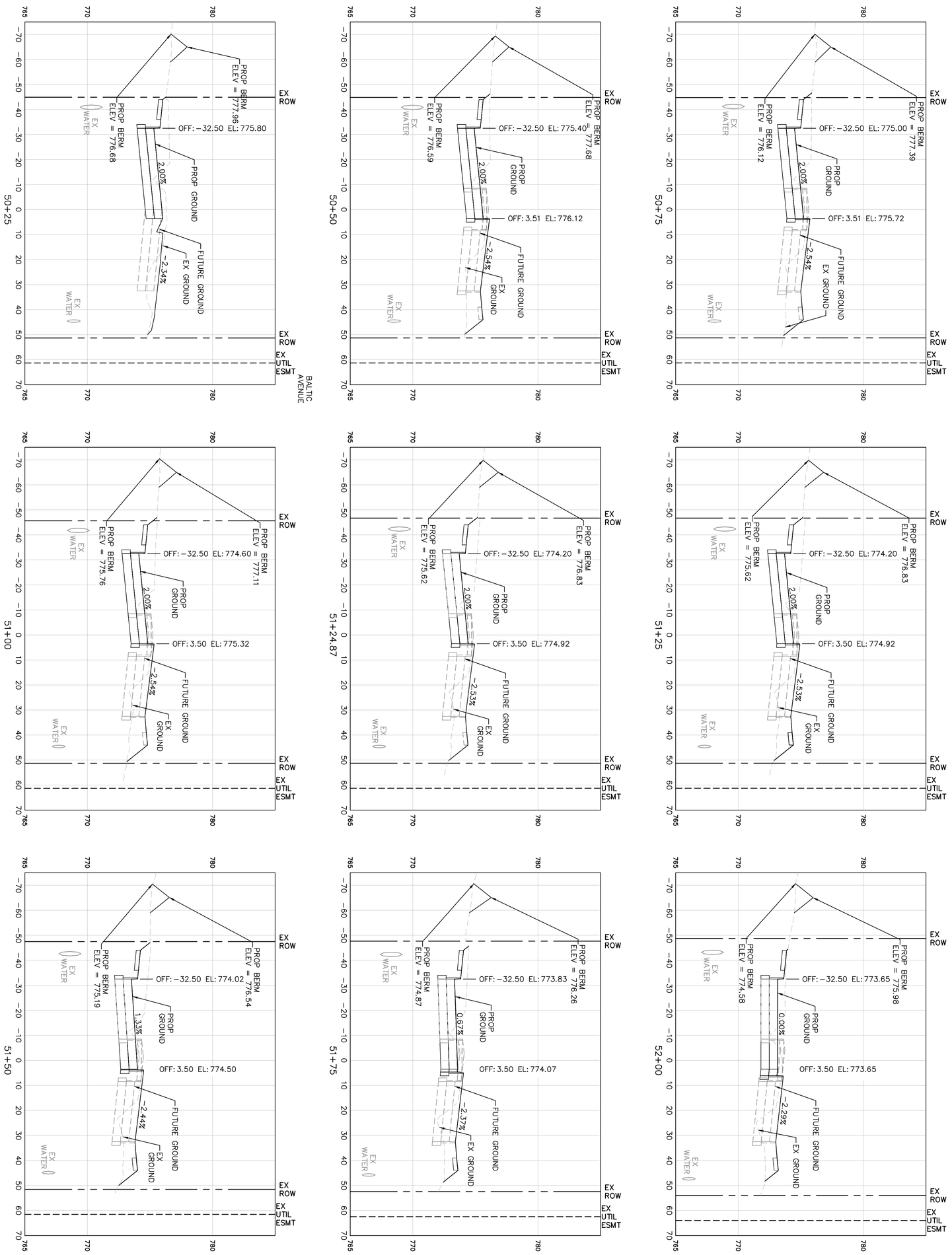
Filename: lane\cadd\design\ocorridor_sta 36+00 to sta 72+00.dwg



DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

C1.66
SHEET NUMBER

CROSS SECTIONS - STA 50+25 TO STA 52+00

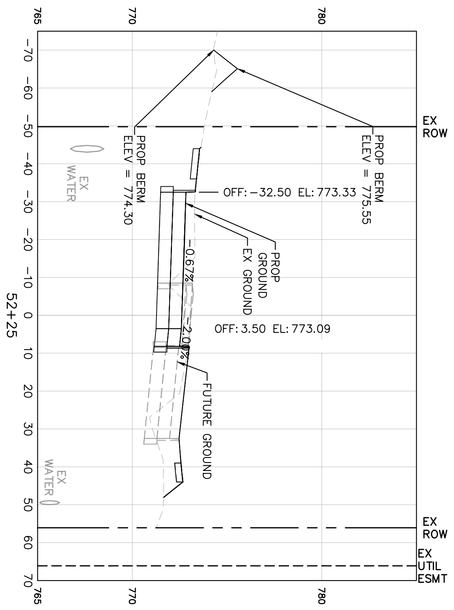
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

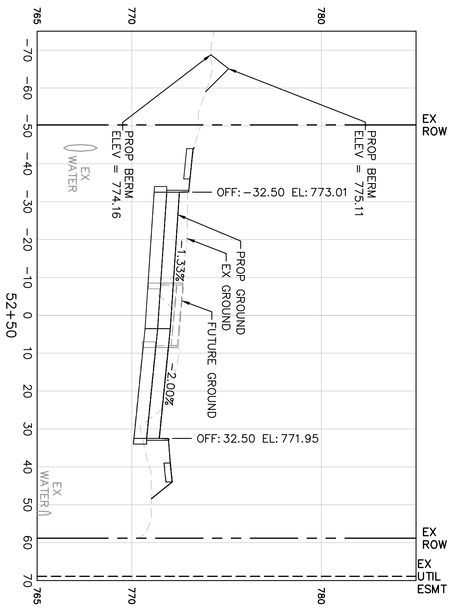
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

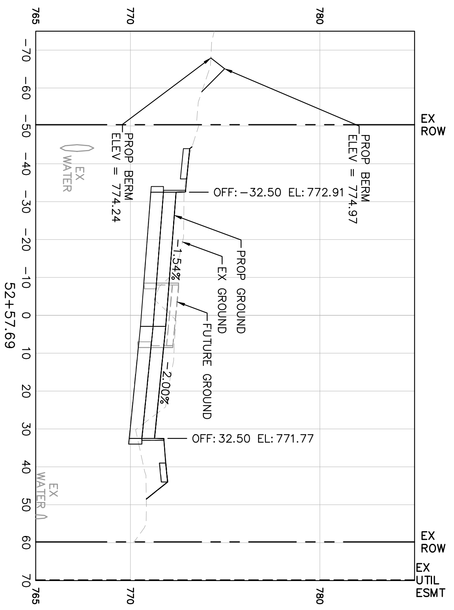
Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

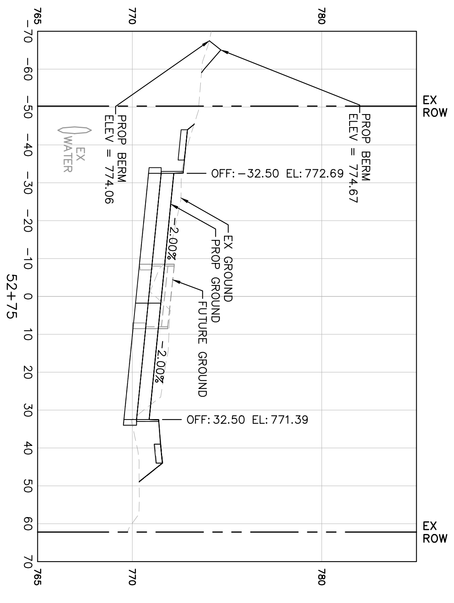
No.	Revision	By	Date

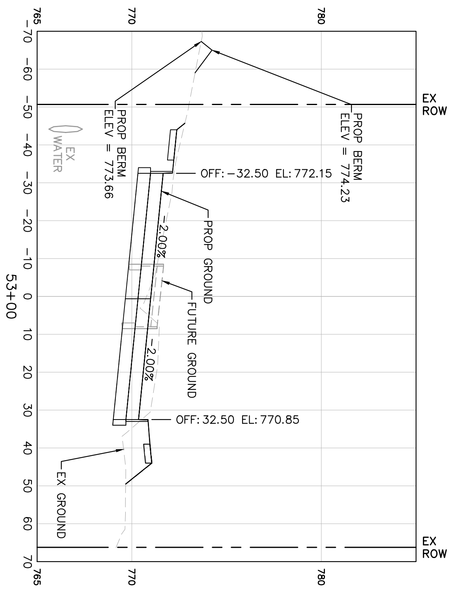
2026-08-21 11:17:50, Del Rosso, Austin
2026-08-21 09:19:41 (CROSS SECTIONS - STA 52+25 TO STA STA 53+90.51)
Plotted, By:
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\design\ocorridor_sta 36+00 to sta 72+00.dwg
Filename:

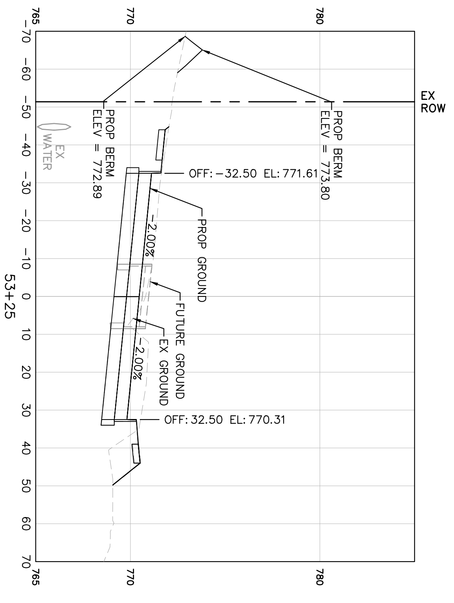


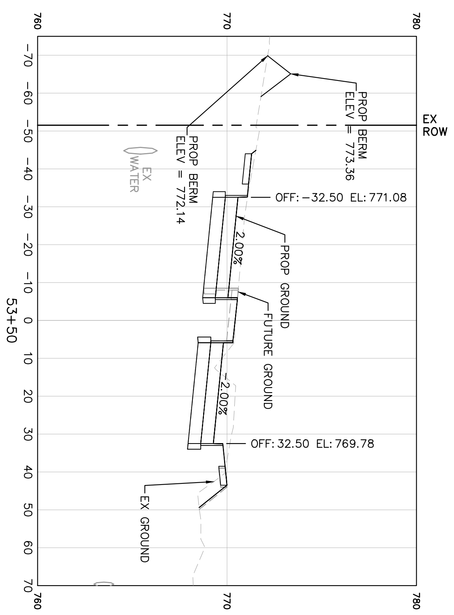


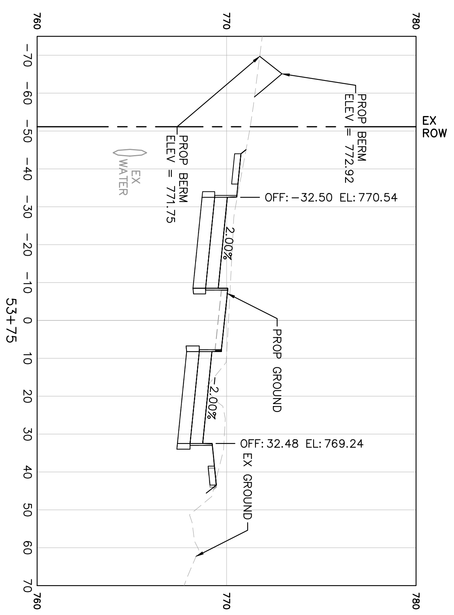


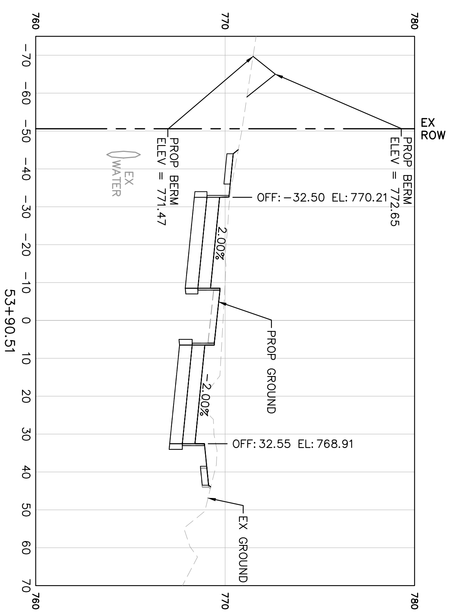












C1.67
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

CROSS SECTIONS - STA 52+25 TO STA STA 53+90.51

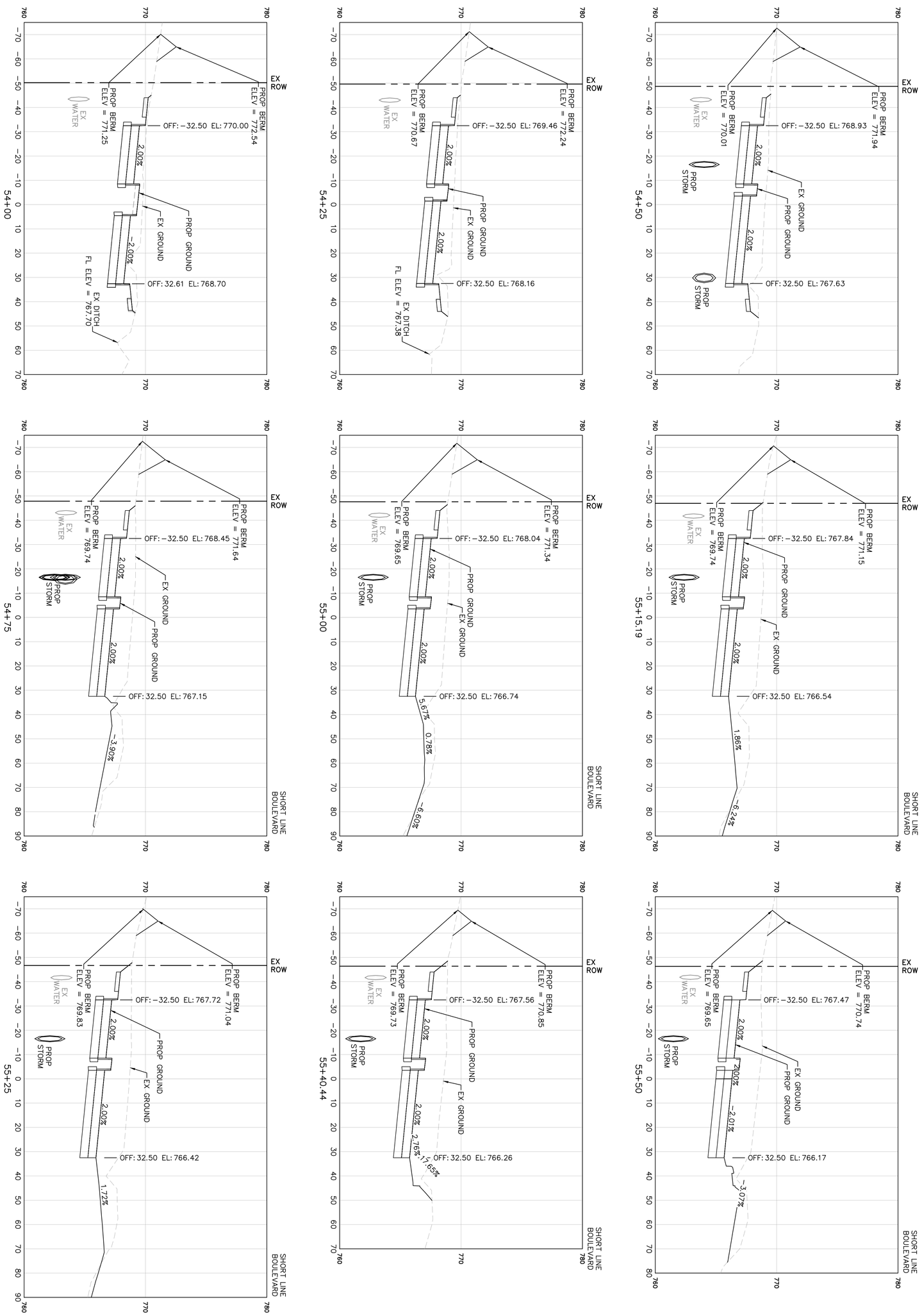
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

2026-08-21 11:18:00, Del Rosso, Austin
2026-08-21 09:19:41 (CROSS SECTIONS - STA 54+00 TO STA 55+50)
Plotted, By:
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\design\ocorridor_sta 36+00 to sta 72+00.dwg
Filename:



DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

C1.68
SHEET NUMBER

CROSS SECTIONS - STA 54+00 TO STA 55+50

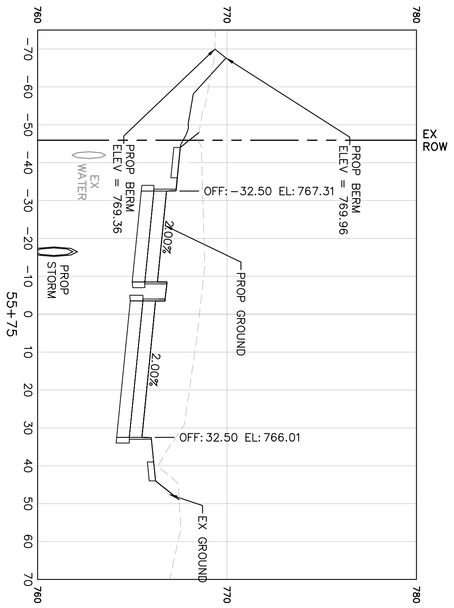
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

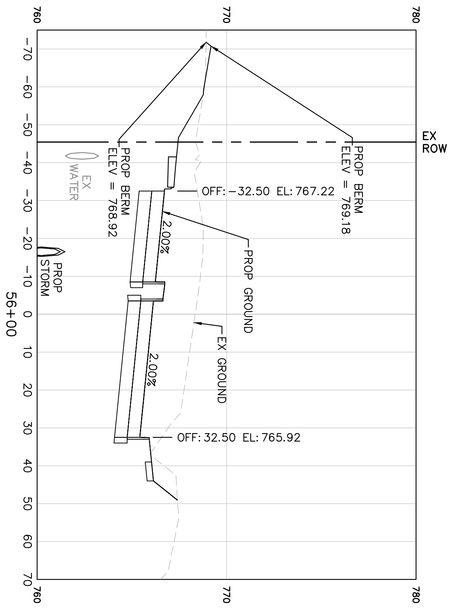
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

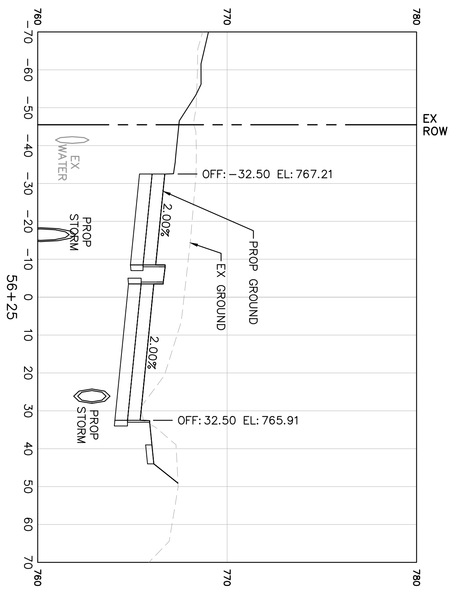
Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

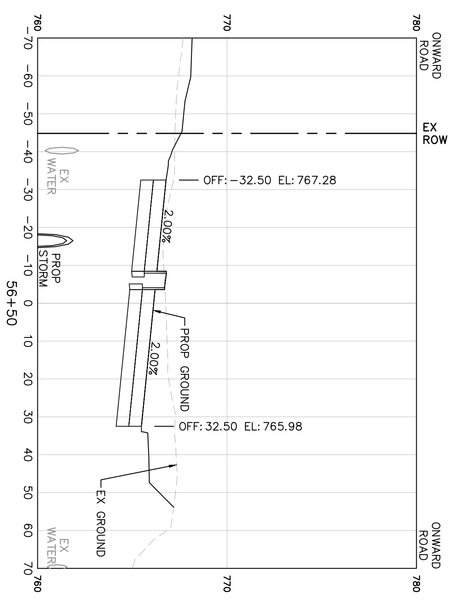
No.	Revision	By	Date

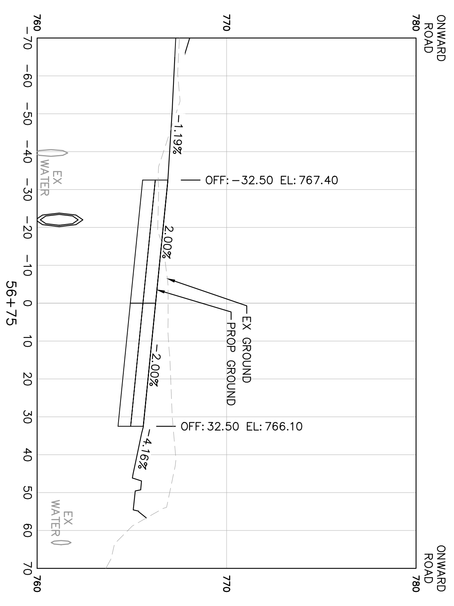
2026-08-21 11:18:09, Del Rosso, Austin
2026-08-21 09:19:41 (CROSS SECTIONS - STA 55+75 TO STA 57+50)
Plotted, By:
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird
Filename: lane\cadd\design\ccorridor_sta 36+00 to sta 72+00.dwg

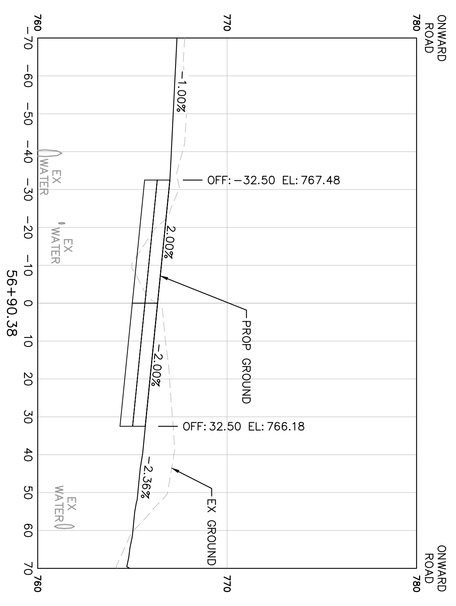


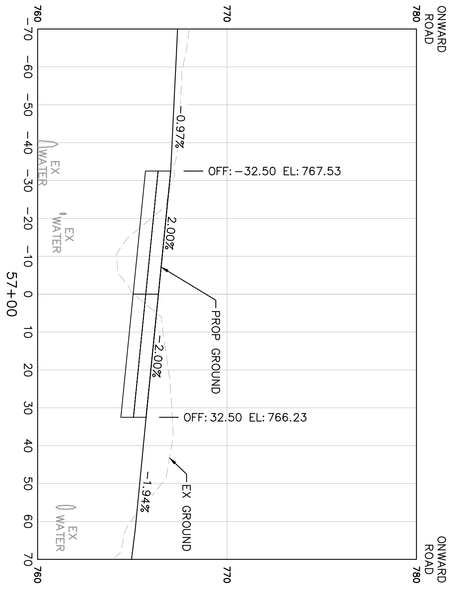


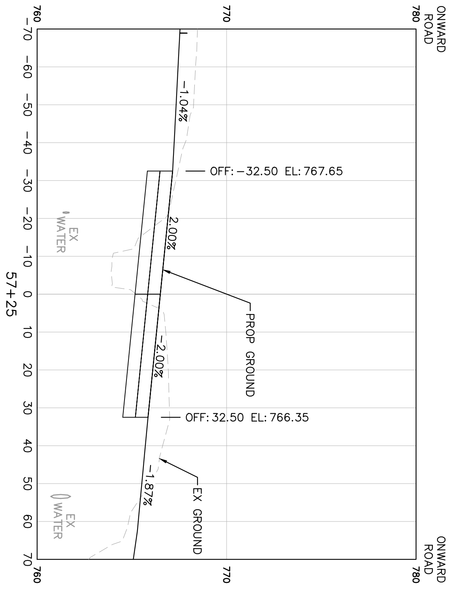


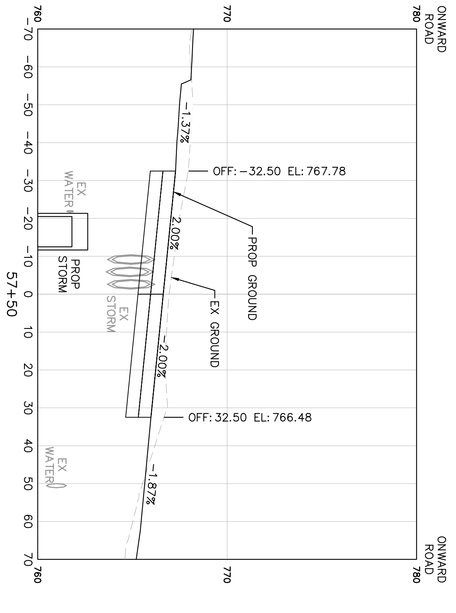












C1.69
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

CROSS SECTIONS - STA 55+75 TO STA 57+50

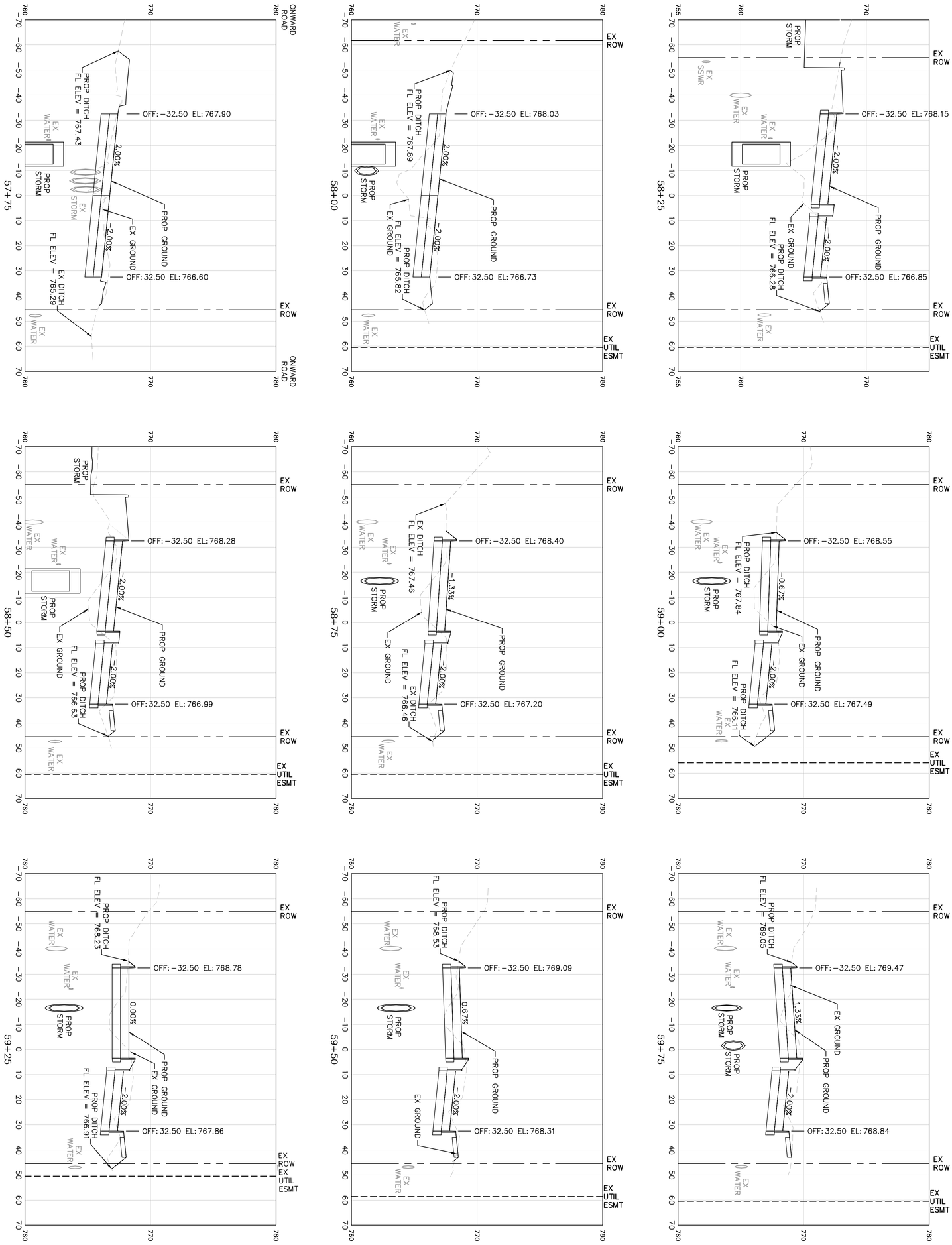
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

2026-08-21 11:18:20, Del Rosso, Austin
2026-08-21 09:19:41 (CROSS SECTIONS - STA 57+75 TO STA 59+75)
Plotted, By:
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird
Filename: lane\cadd\design\ocorridor_sta 36+00 to sta 72+00.dwg



C1.70	SHEET NUMBER	DATE: AUGUST 2026 DESIGN: ALC DRAWN: JSE CHECKED: MDC KHA NO.: 061265047	CROSS SECTIONS - STA 57+75 TO STA 59+75	CITY OF MIDLOTHIAN MOCKINGBIRD LANE 2021 BOND PROJECT

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

2026-08-21 11:18:32, Del Rosso, Austin
2026-08-21 09:19:41 (CROSS SECTIONS - STA 60+00 TO STA 62+00)
Plotted, By:
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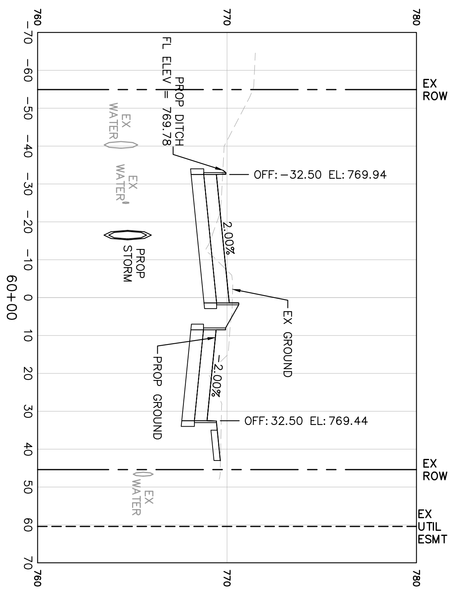
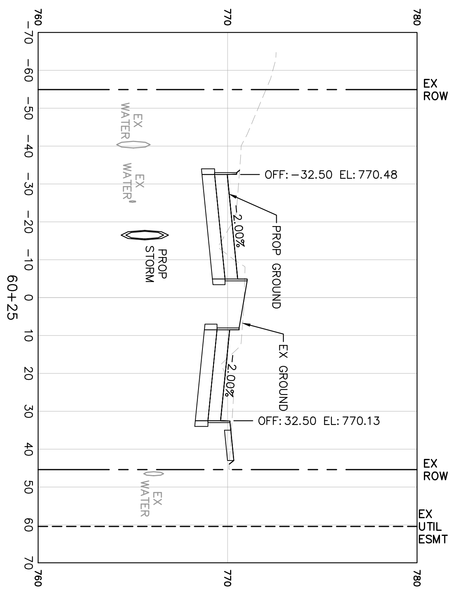
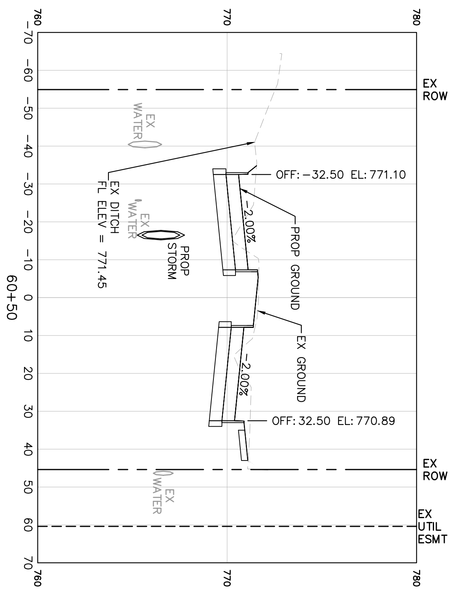
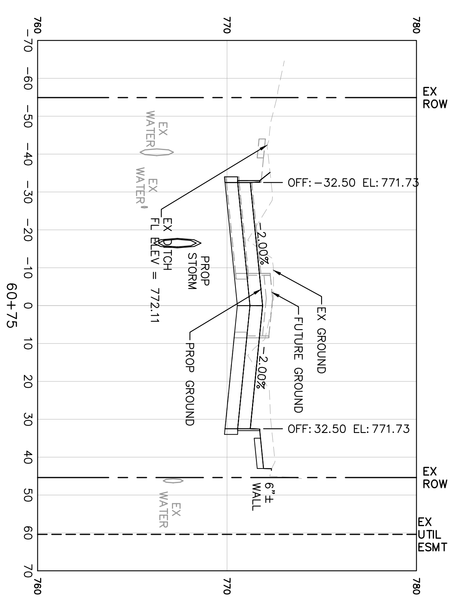
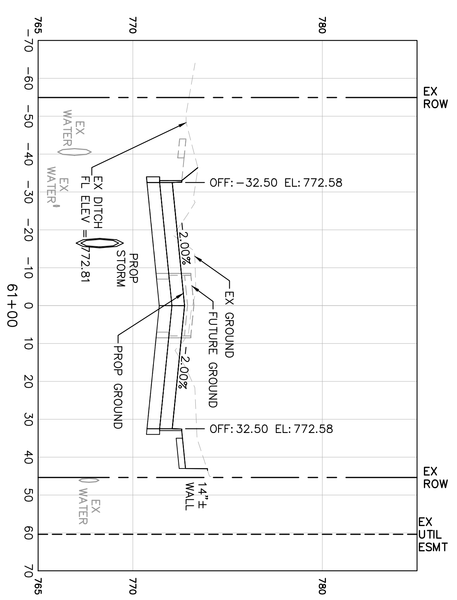
Filename:

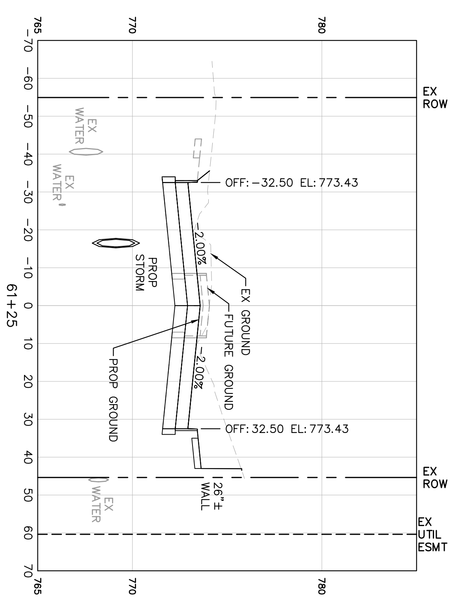


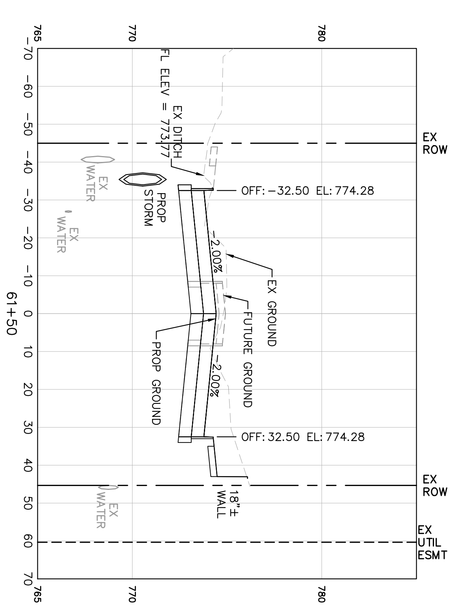


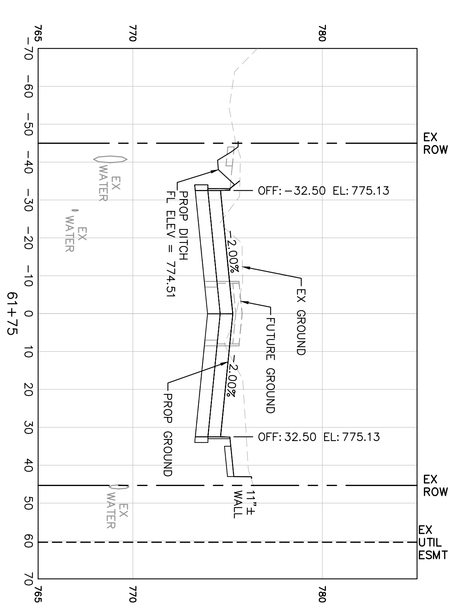


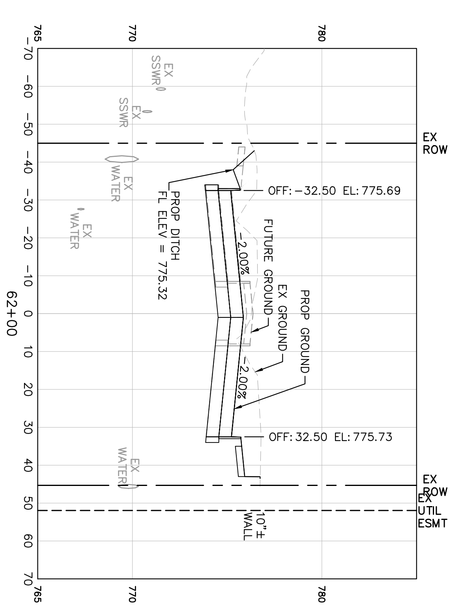












DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

C1.71
SHEET NUMBER

CROSS SECTIONS - STA 60+00 TO STA 62+00

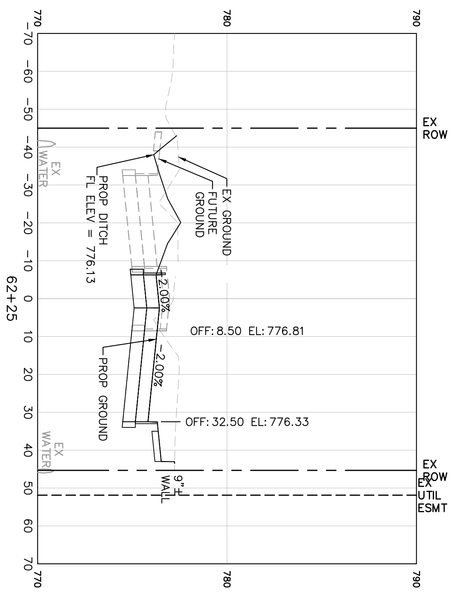
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

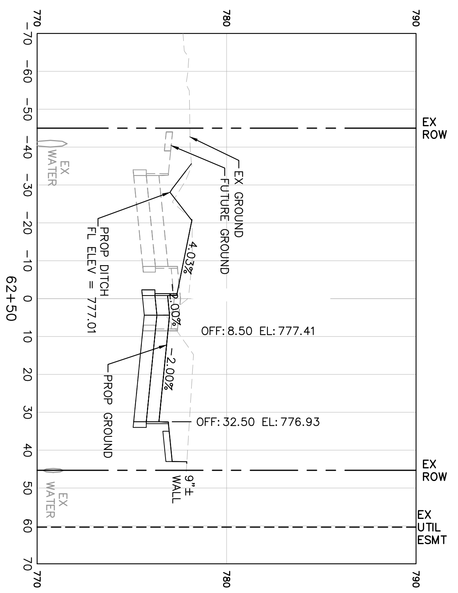
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

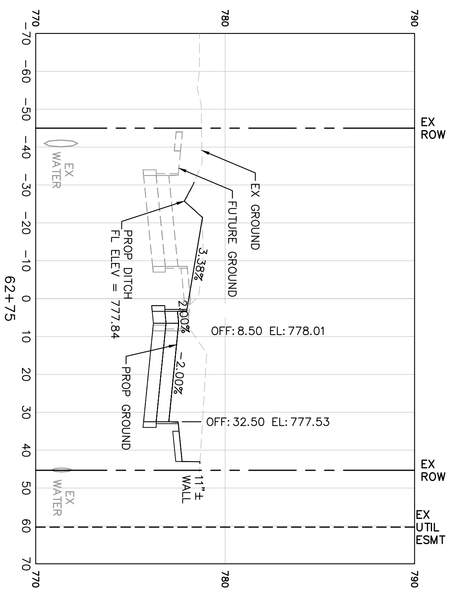
Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

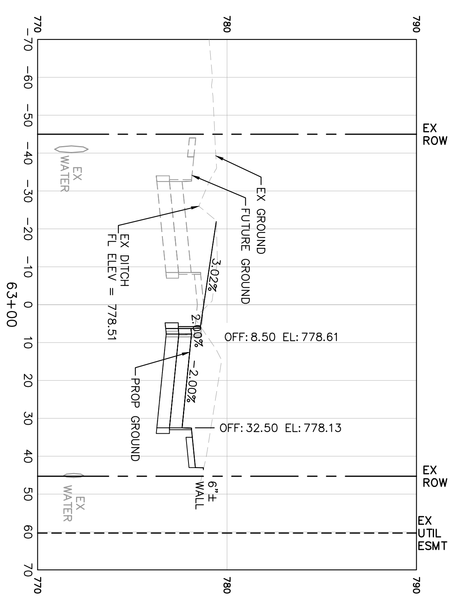
No.	Revision	By	Date

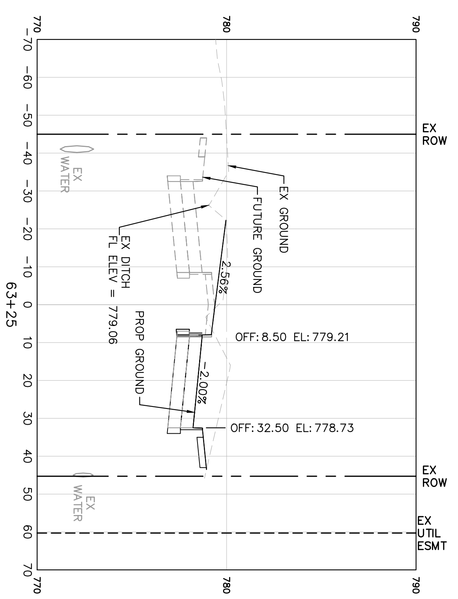
2026-08-21 11:18:43, Del Rosso, Austin
2026-08-21 09:19:41 (CROSS SECTIONS - STA 62+25 TO STA 64+25)
Plotted, By:
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird
Filename: lane\cadd\design\ocorridor_sta 36+00 to sta 72+00.dwg

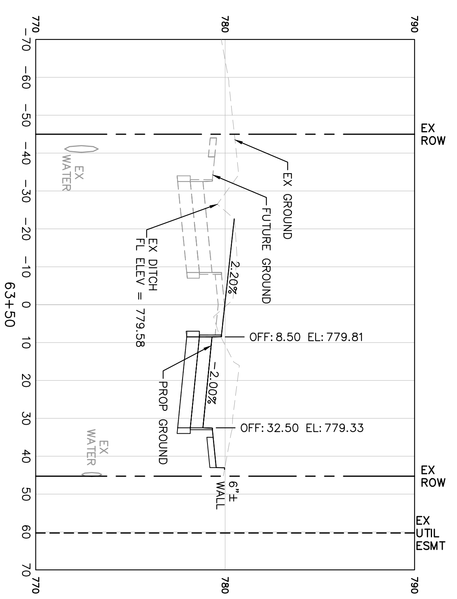


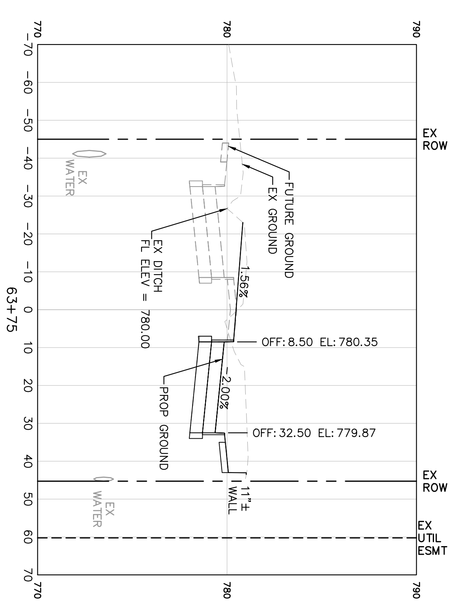


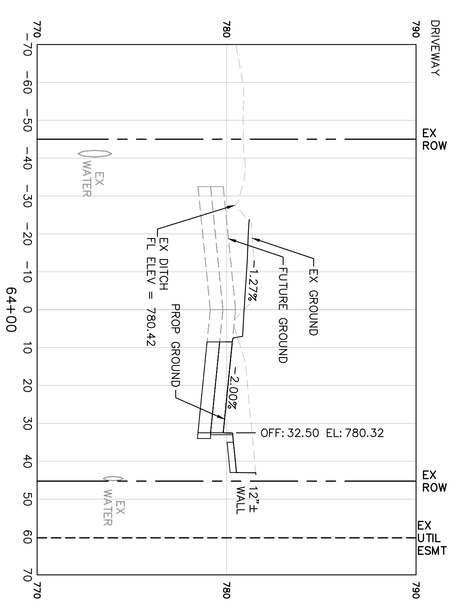


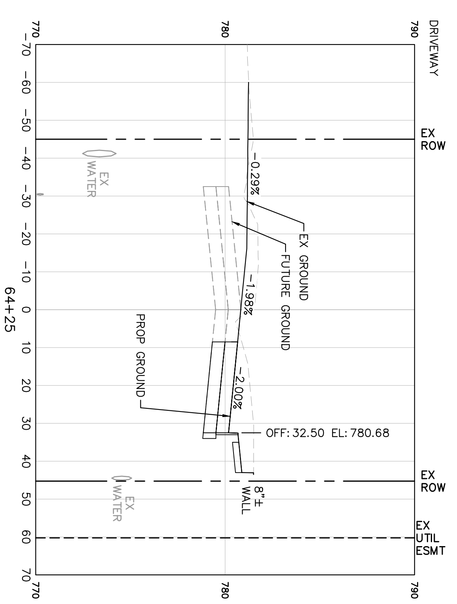












C1.72
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

CROSS SECTIONS - STA 62+25 TO STA 64+25

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

2026-08-21 11:18:52, Del Rosso, Austin
2026-08-21 09:19:41 (CROSS SECTIONS - STA 64+34.39 TO STA 66+25)
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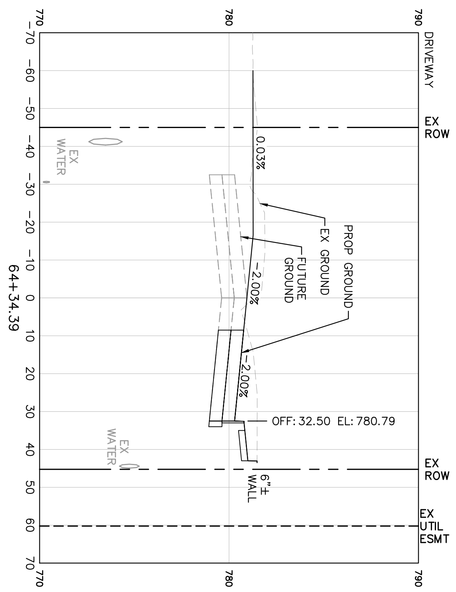
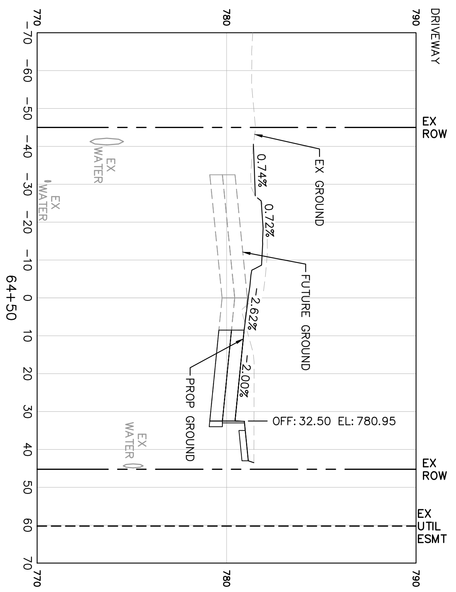
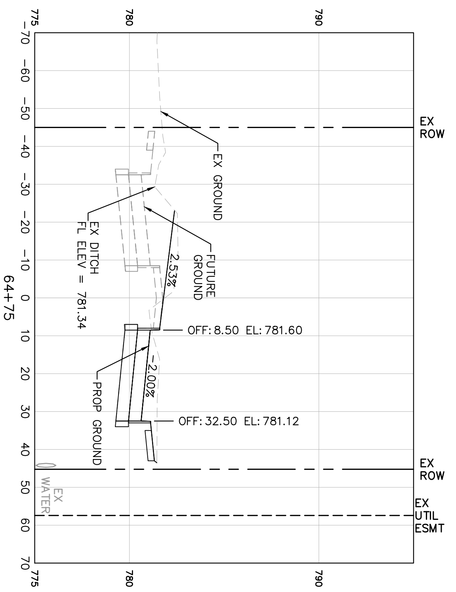
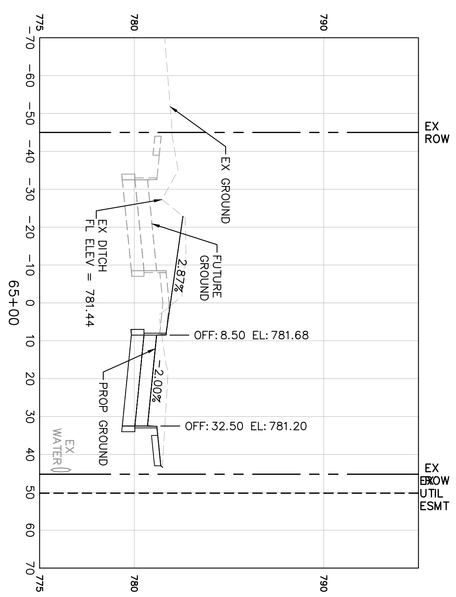
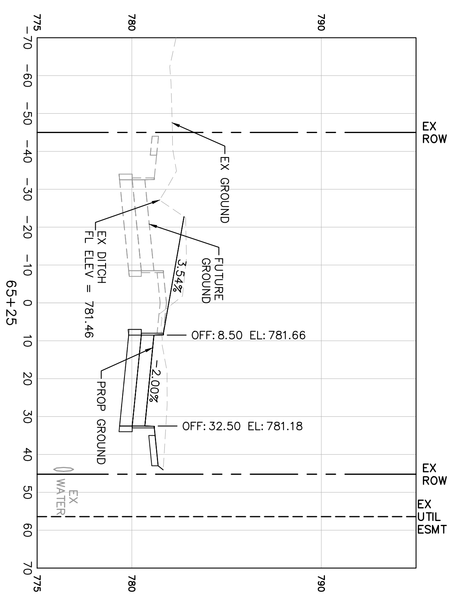
Filename:

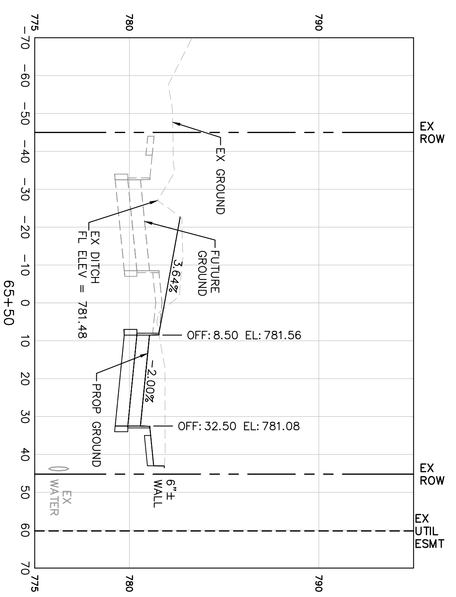


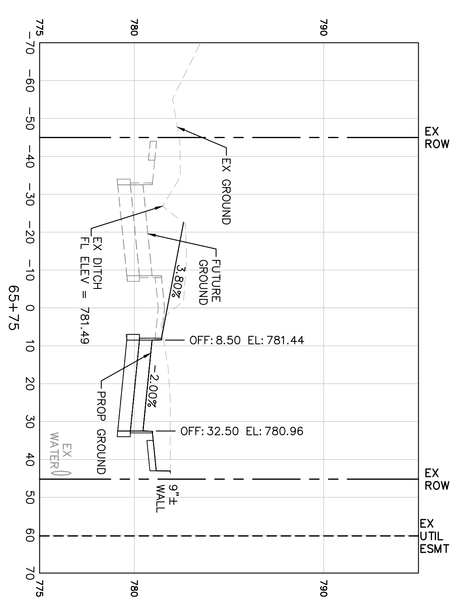


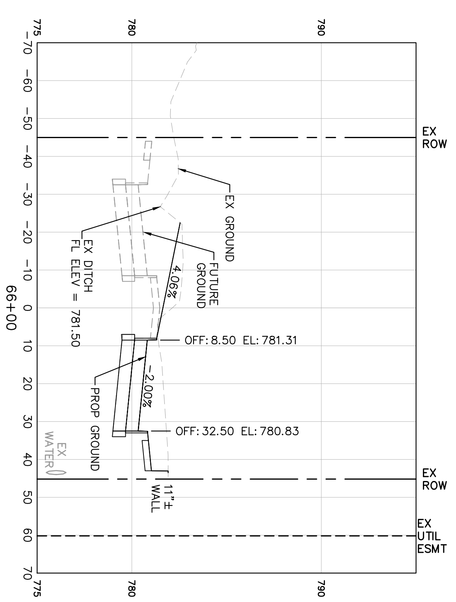


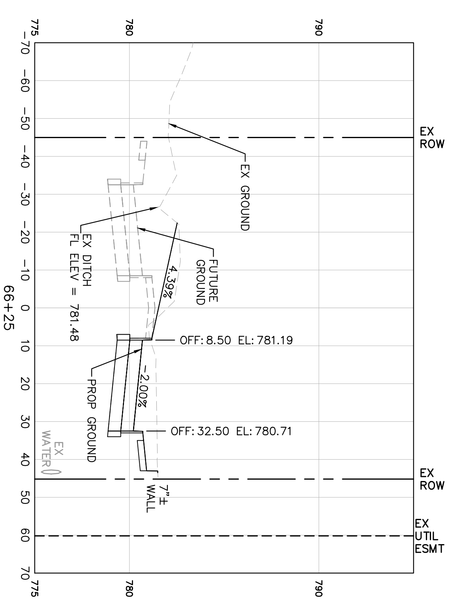












C1.73
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

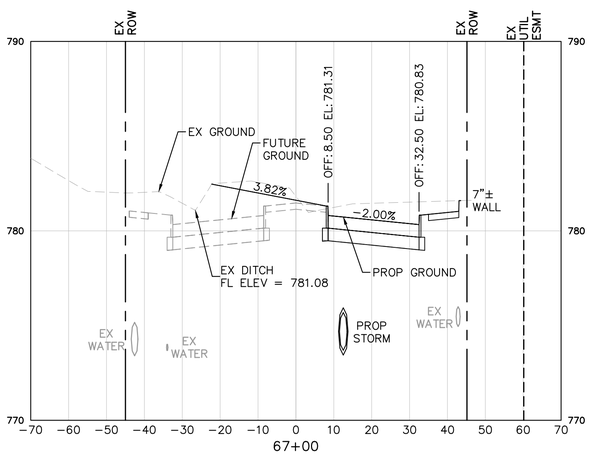
CROSS SECTIONS - STA 64+34.39 TO STA 66+25

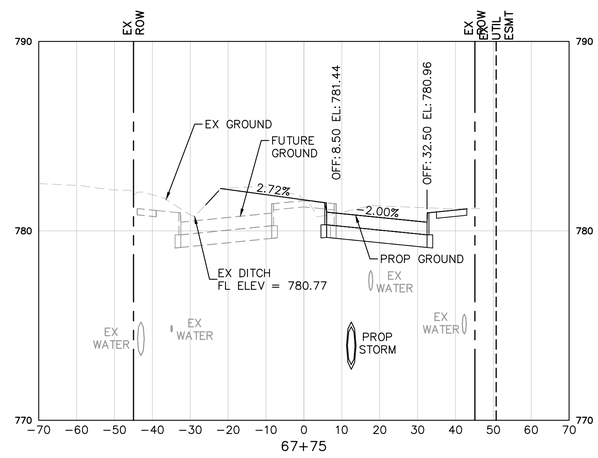
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

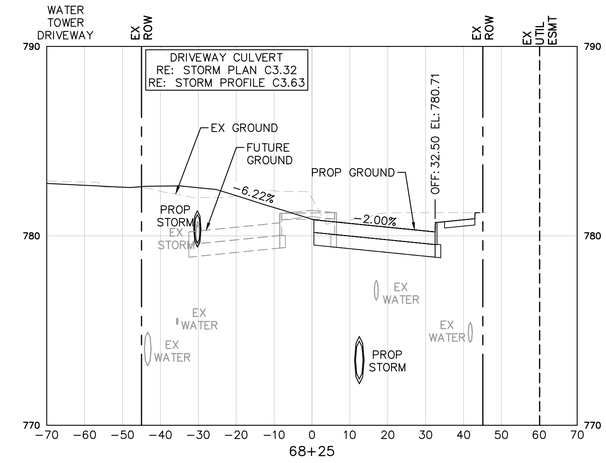
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

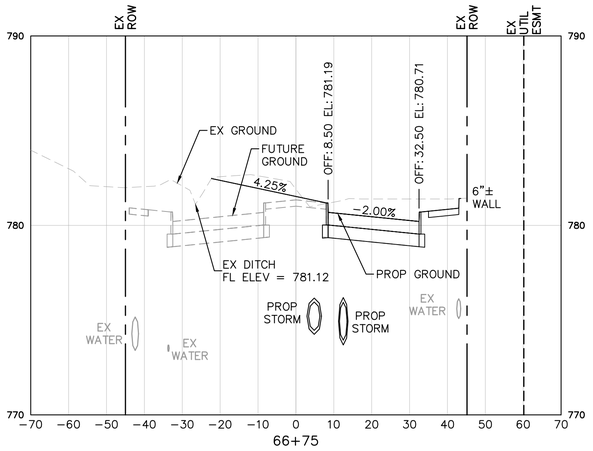
Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

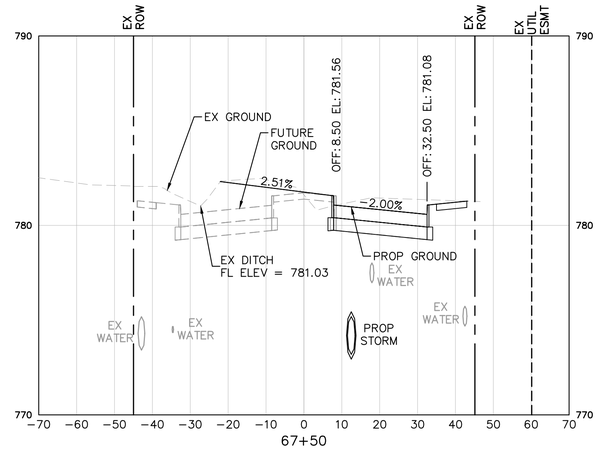
No.	Revision	By	Date

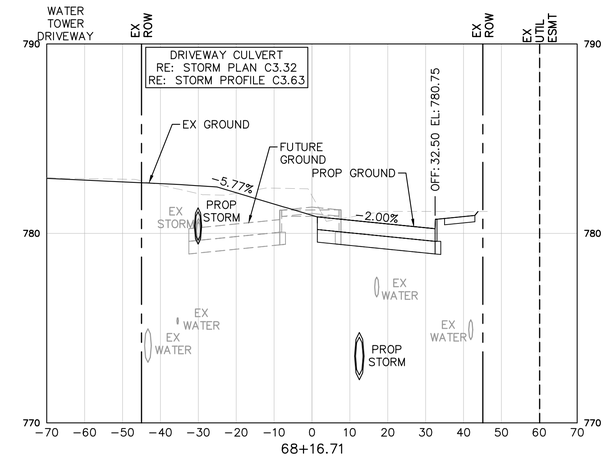


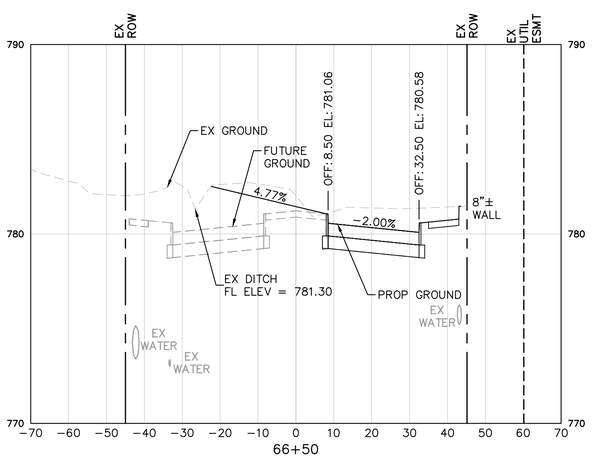


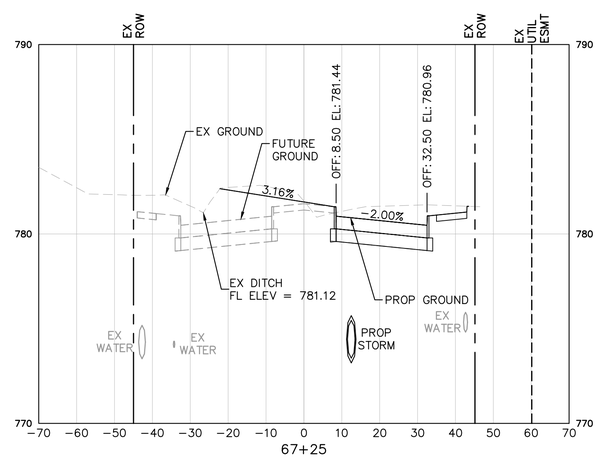


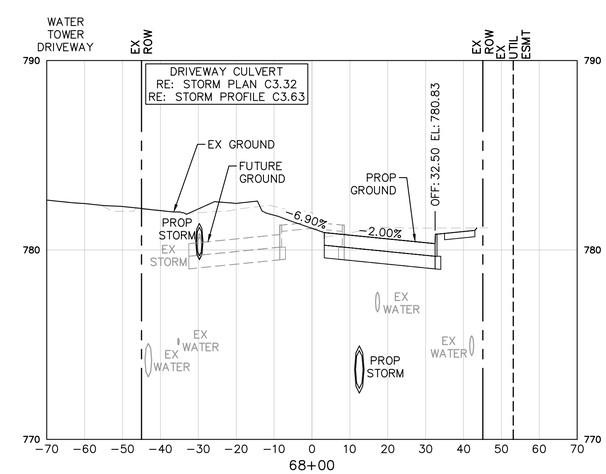












2026-08-21 11:19:02, Del Rosso, Austin
2026-08-21 09:19:41 (CROSS SECTIONS - STA 66+50 TO STA 68+25)
Plotted, By:
Last Saved: k:\tw_roadway\061265047_midlothian mockingbird lane\cadd\design\ccorridor_sta 36+00 to sta 72+00.dwg
Filename:

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

CROSS SECTIONS - STA 66+50 TO STA 68+25

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER

C1.74

2026-08-21 11:19:12, Del Rosso, Austin
2026-08-21 09:19:41 (CROSS SECTIONS - STA 68+50 TO STA 70+50)
Plotted, By:
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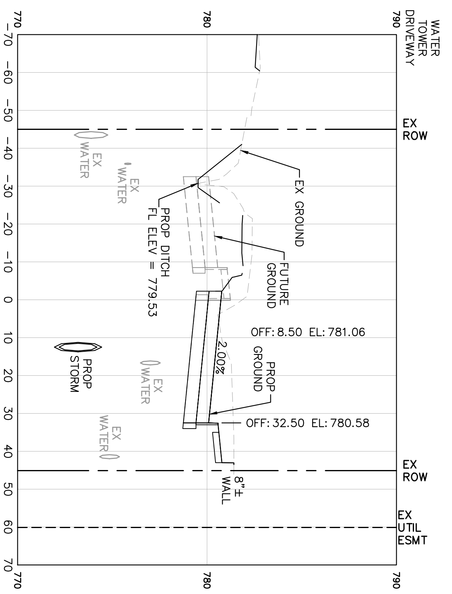
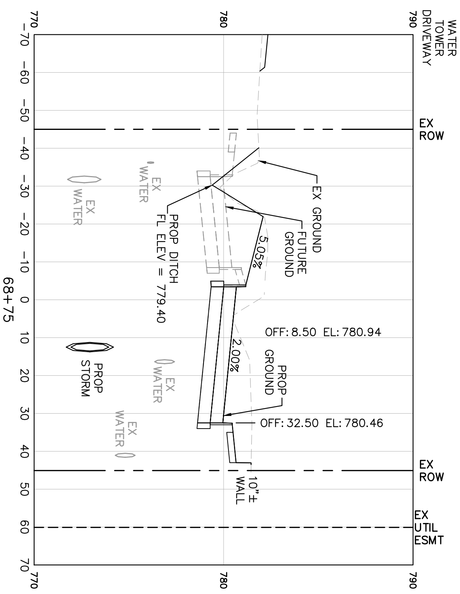
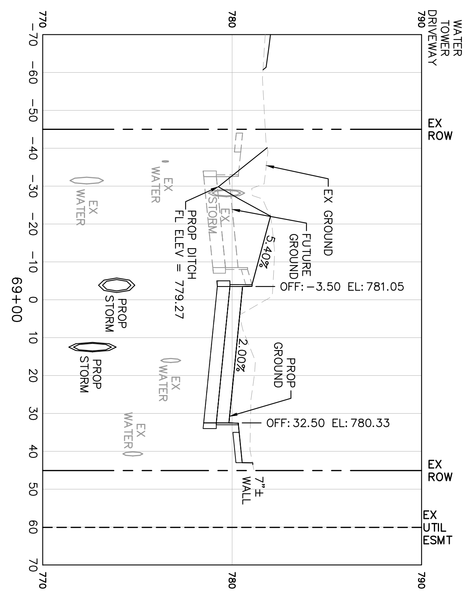
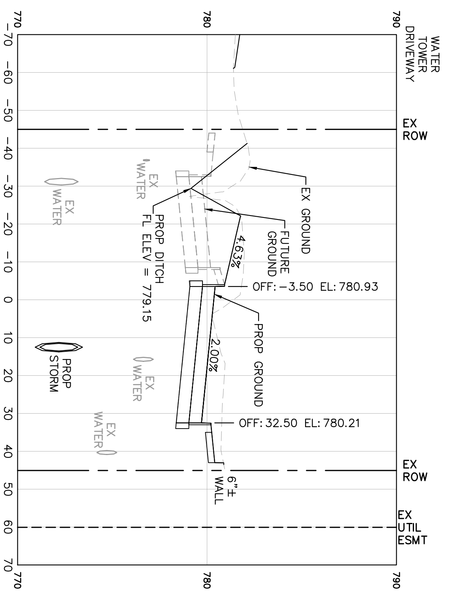
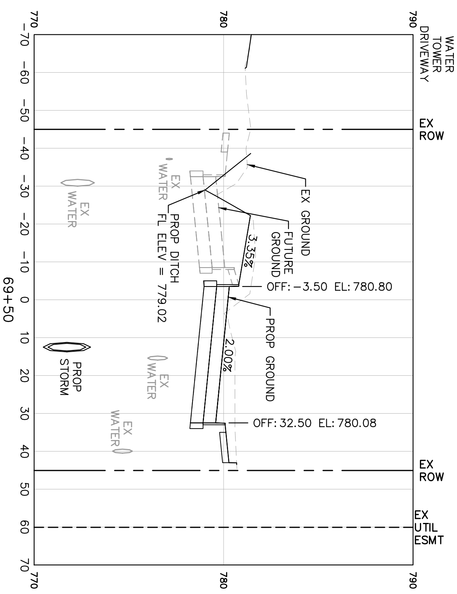
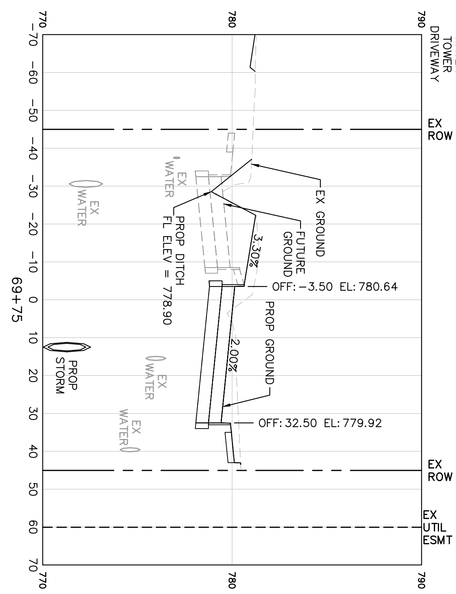


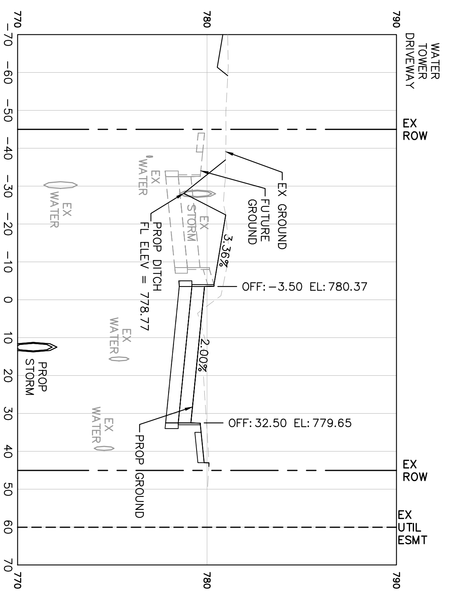


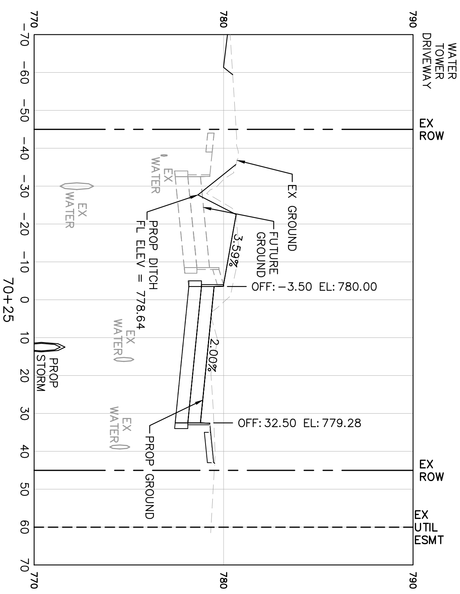


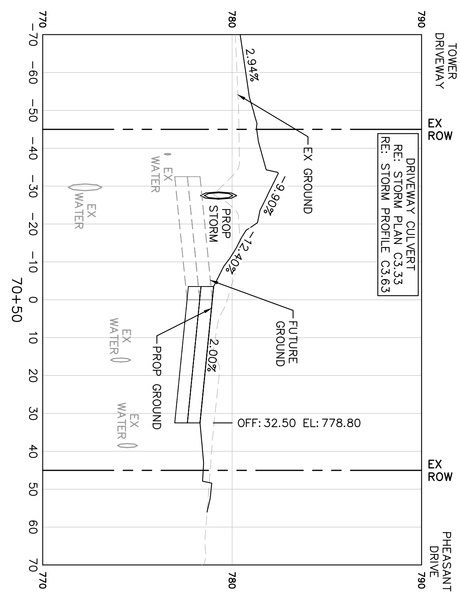












DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER C1.75

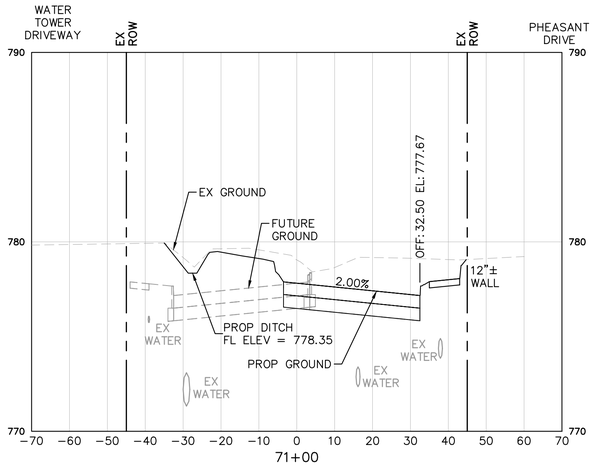
CROSS SECTIONS - STA 68+50 TO STA 70+50

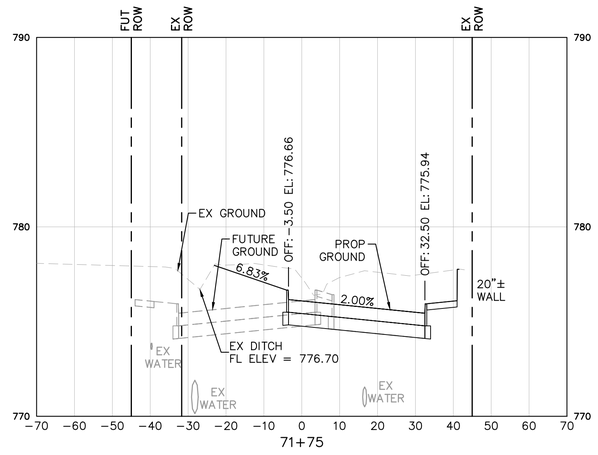
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

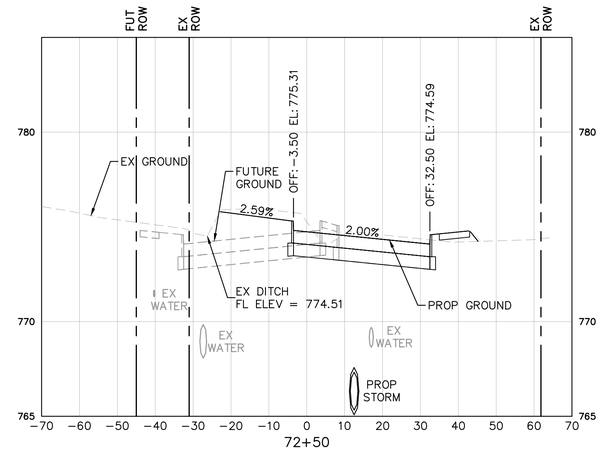
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

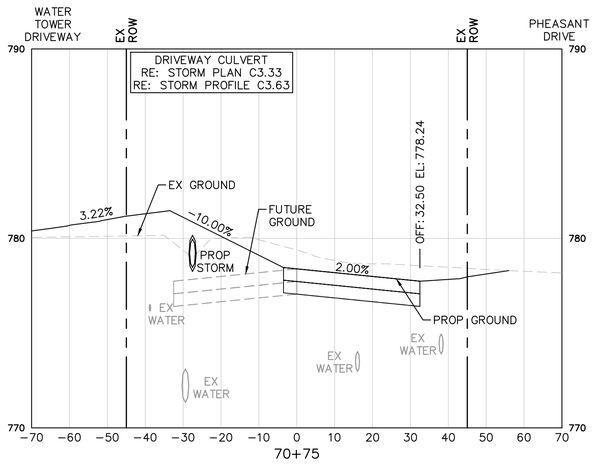
Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

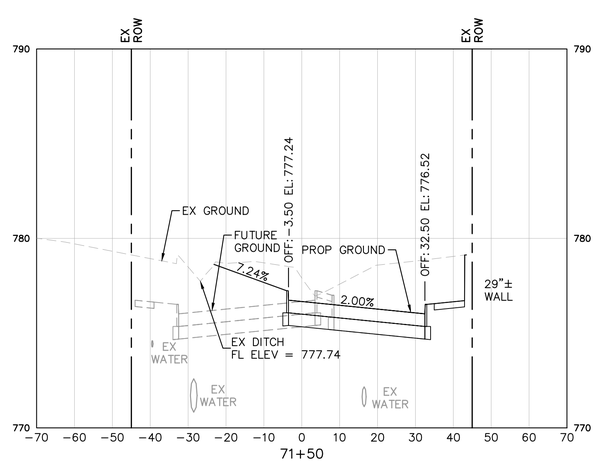
No.	Revision	By	Date

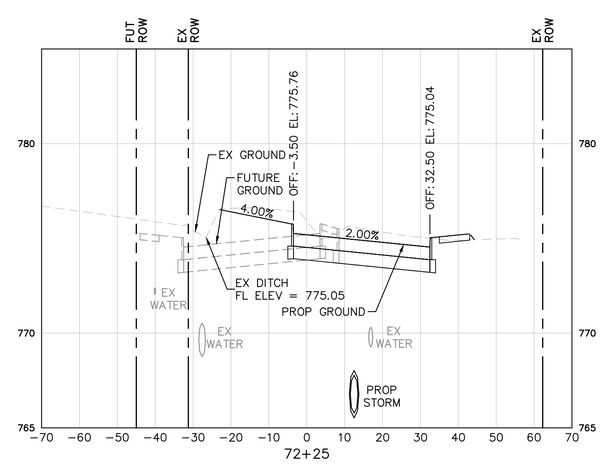


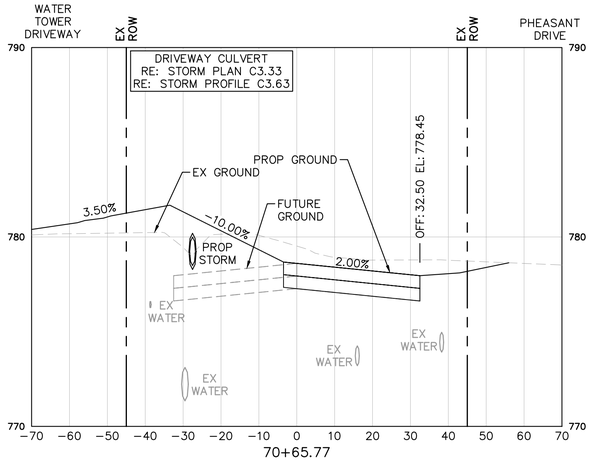


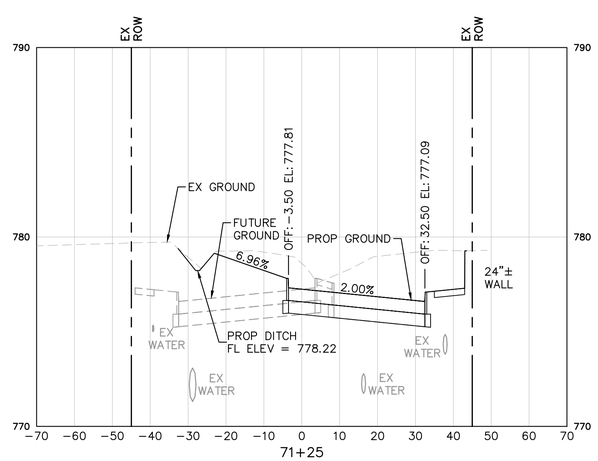


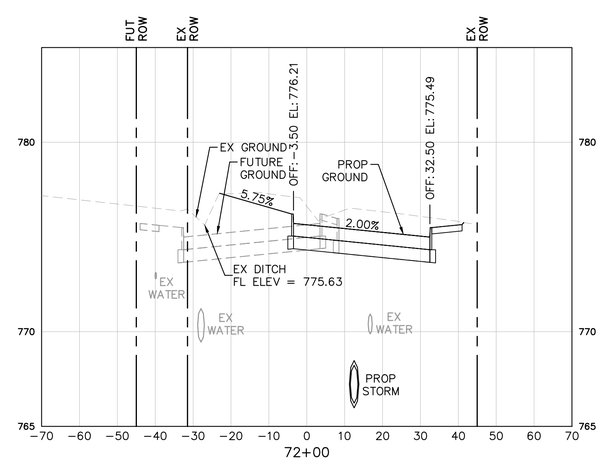












Plotted By: 2026-08-21 11:19:23, Del Rosso, Austin
Last Saved: 2026-08-21 09:19:41 (CROSS SECTIONS - STA 70+65.77 TO STA 72+50)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\design\ocorridor_sta 36+00 to sta 72+00.dwg

Kimley»Horn

801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

CROSS SECTIONS - STA
70+65.77 TO STA 72+50

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C1.76

2026-08-21 11:20:01, Del Rosso, Austin
Plotted, By:
2026-08-21 10:56:14 (CROSS SECTIONS - STA 72+75 TO STA 74+50)
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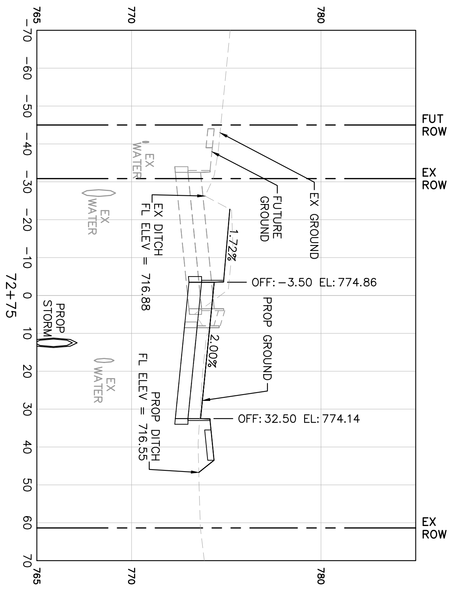

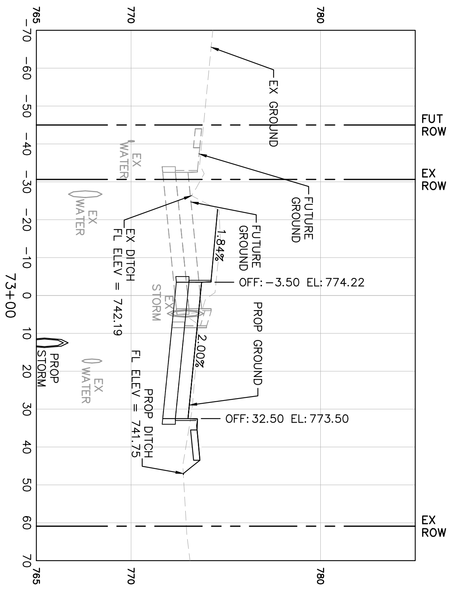

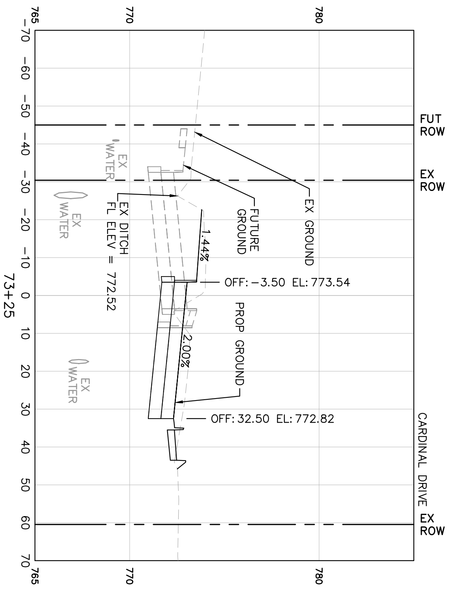

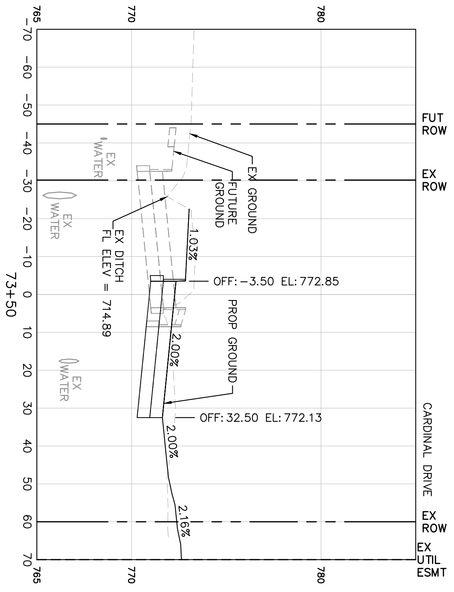

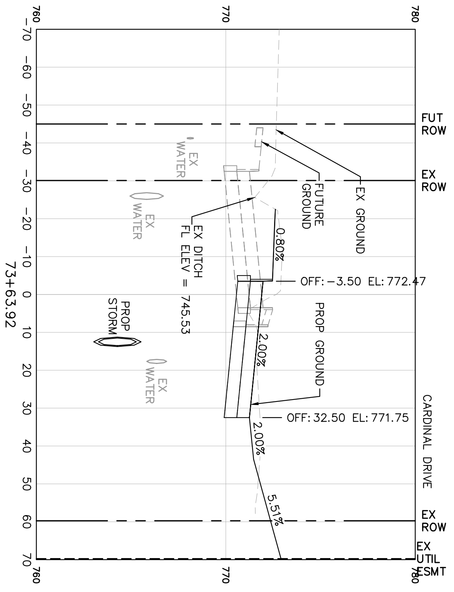

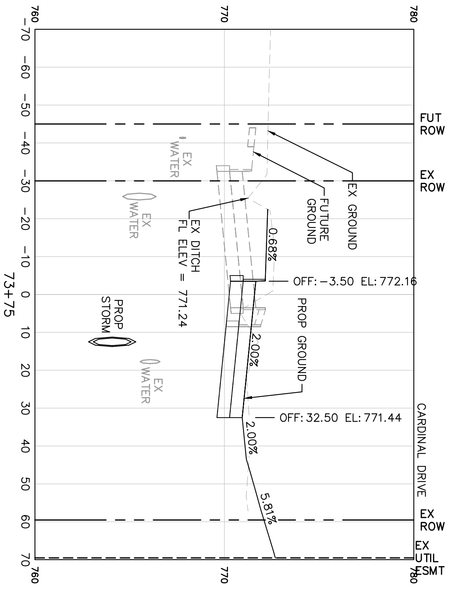

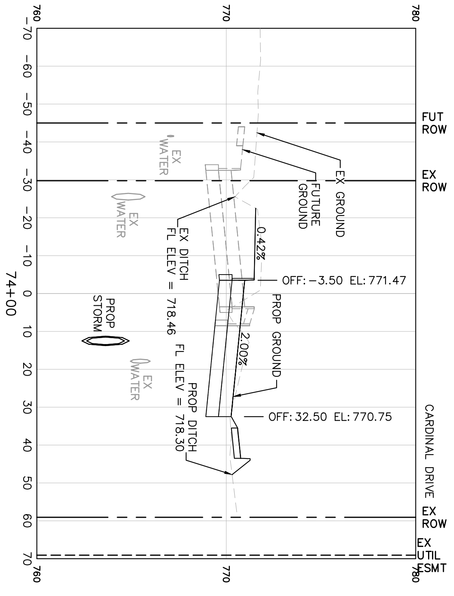

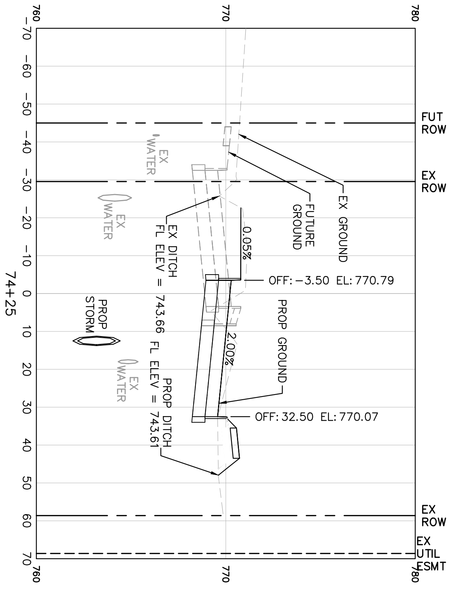

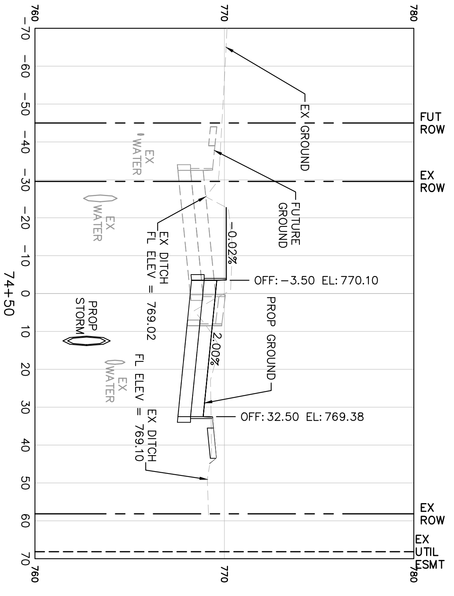

C1.77
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

CROSS SECTIONS - STA 72+75 TO STA 74+50

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

2026-08-21 11:20:10, Del Rosso, Austin
2026-08-21 10:56:14 (CROSS SECTIONS - STA 74+75 TO STA 76+75)
Plotted, By:
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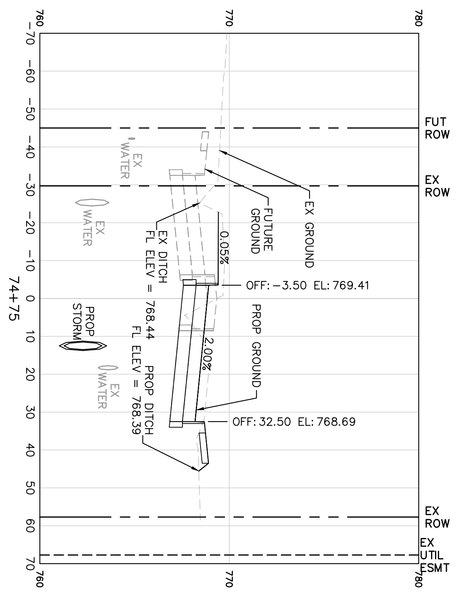

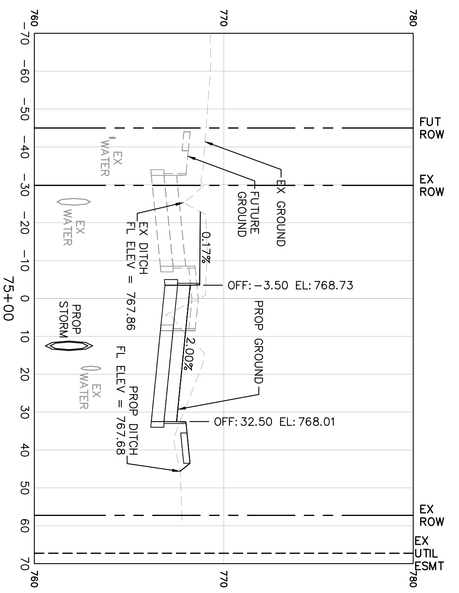

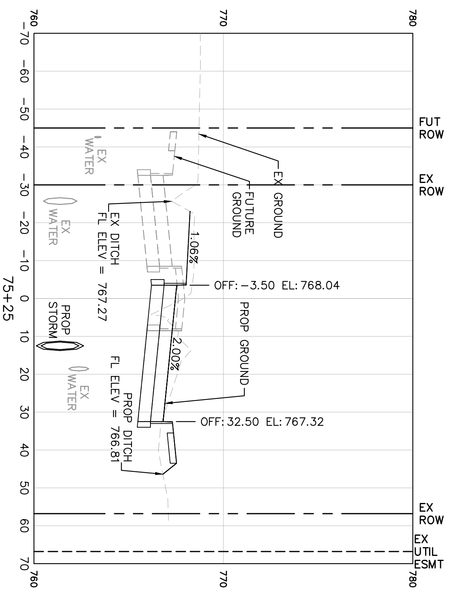

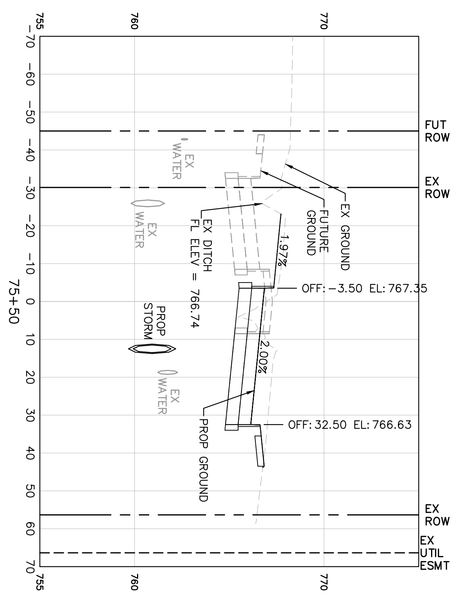

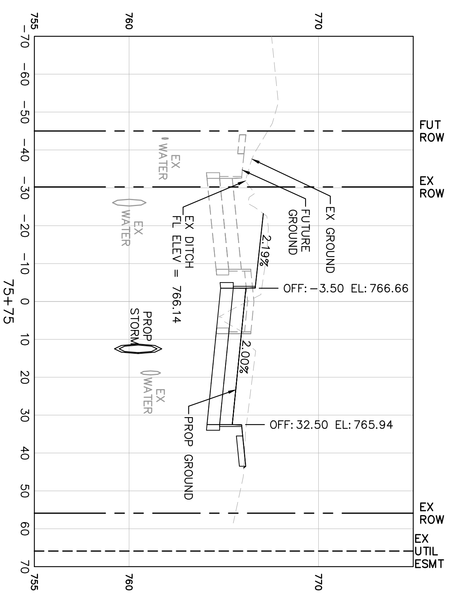

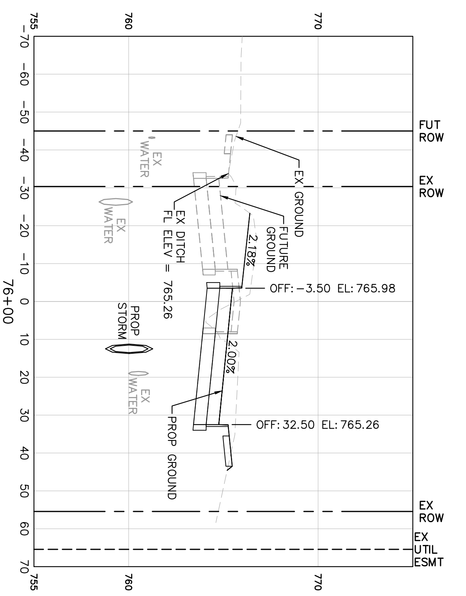

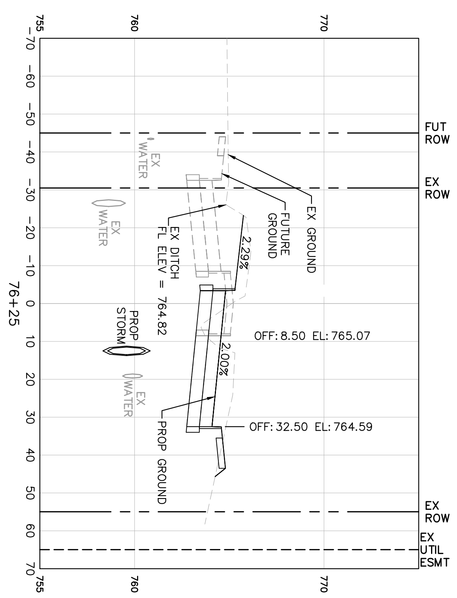

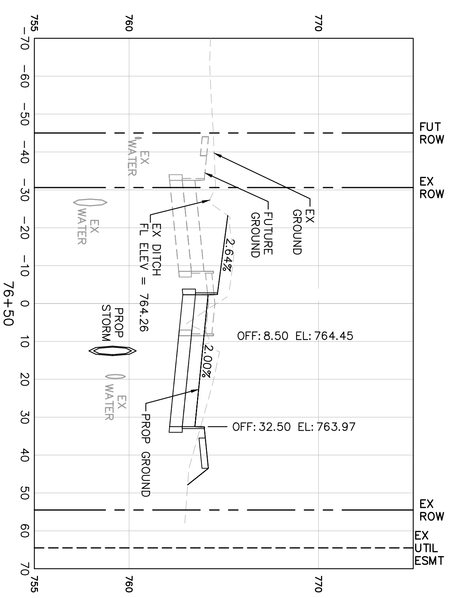

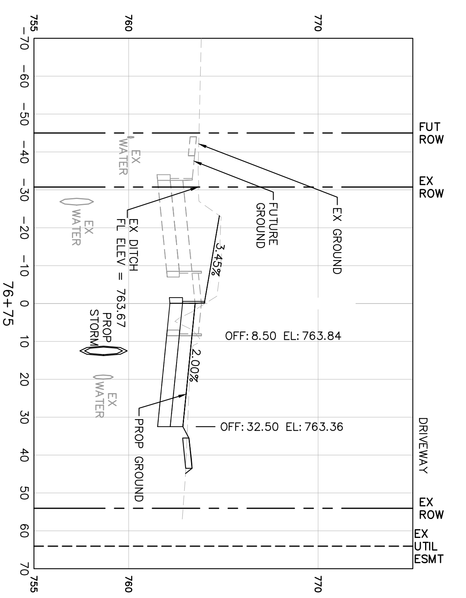

C1.78
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

CROSS SECTIONS - STA 74+75 TO STA 76+75

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

2026-08-21 11:20:18, Del Rosso, Austin
2026-08-21 10:56:14 (CROSS SECTIONS - STA 76+88.31 TO STA 78+25)
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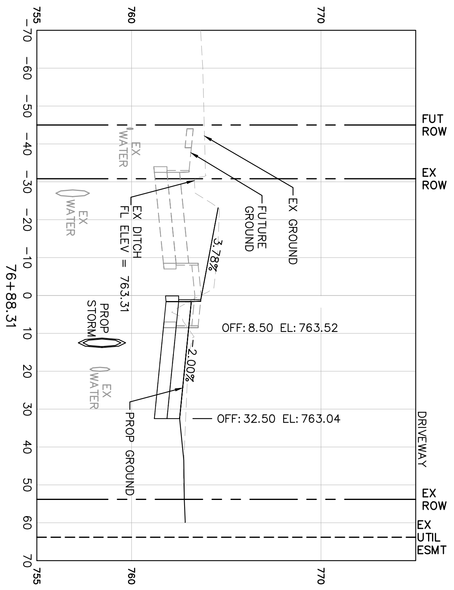

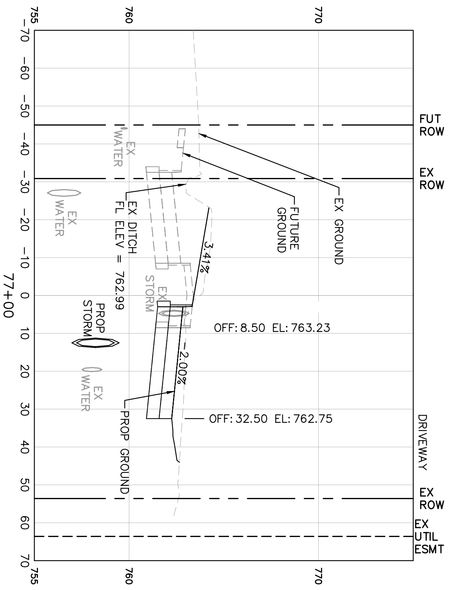

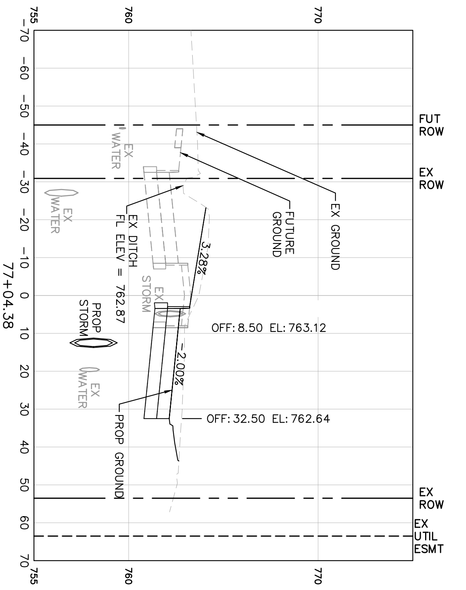

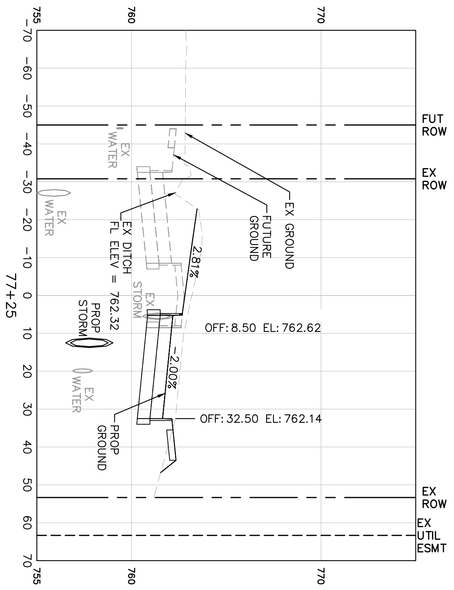

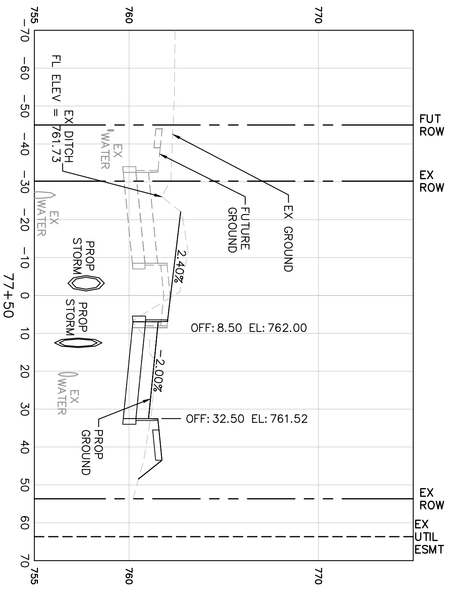

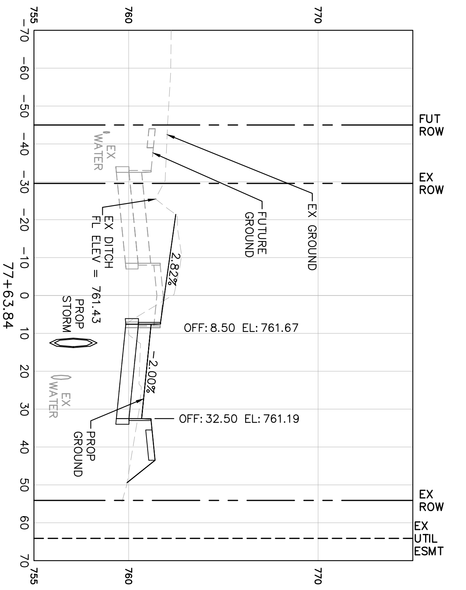

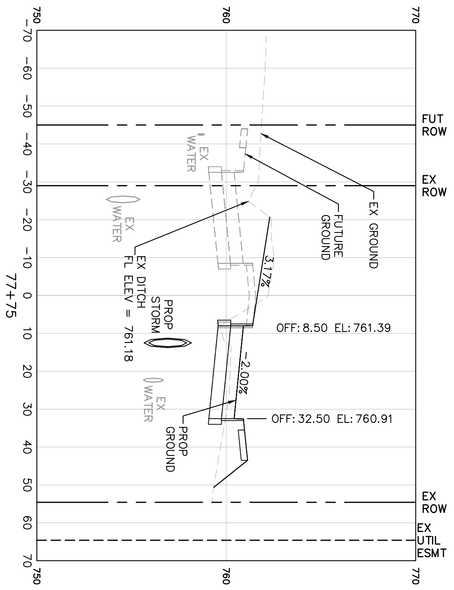

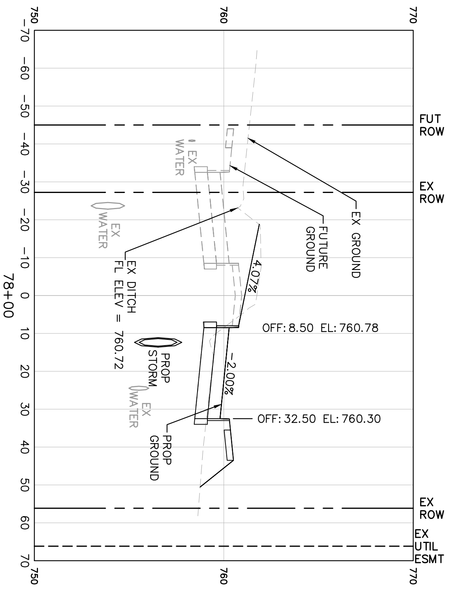

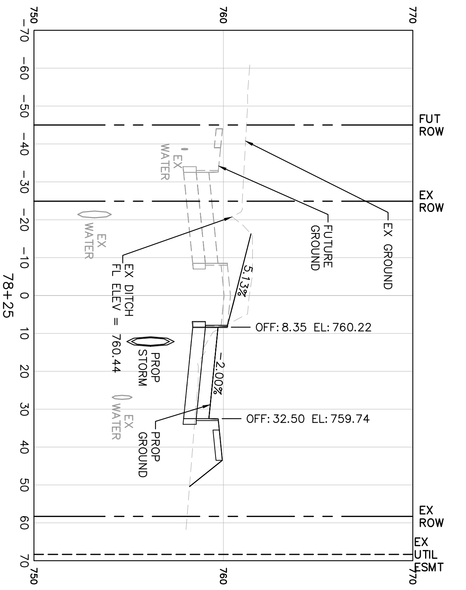

C1.79
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

CROSS SECTIONS - STA 76+88.31 TO STA 78+25

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

2026-08-21 11:20:27, Del Rosso, Austin
2026-08-21 10:56:14 (CROSS SECTIONS - STA 78+50 TO STA 80+25)
Plotted, By:
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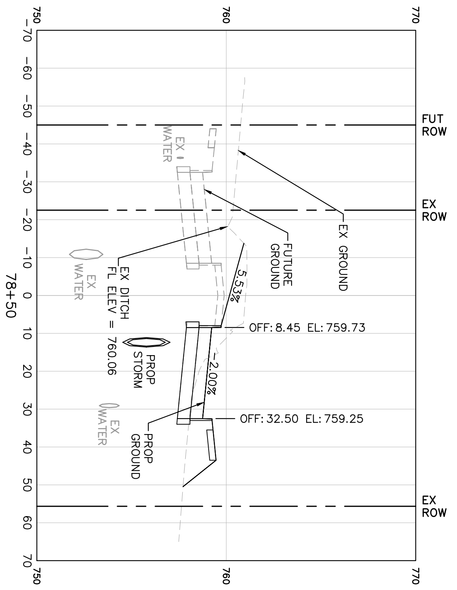
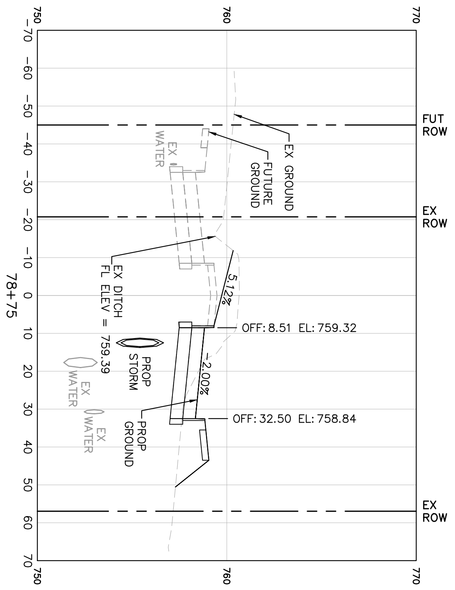
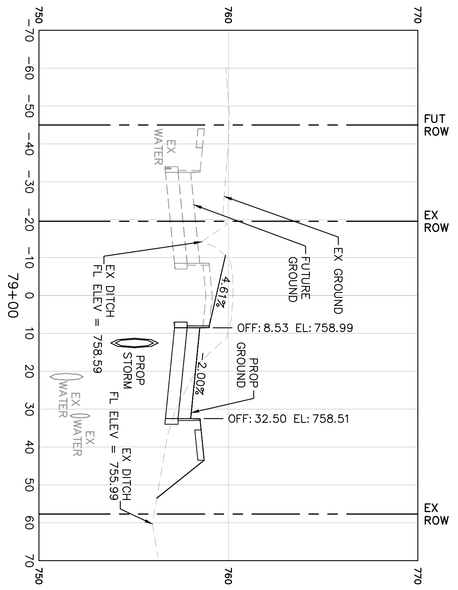
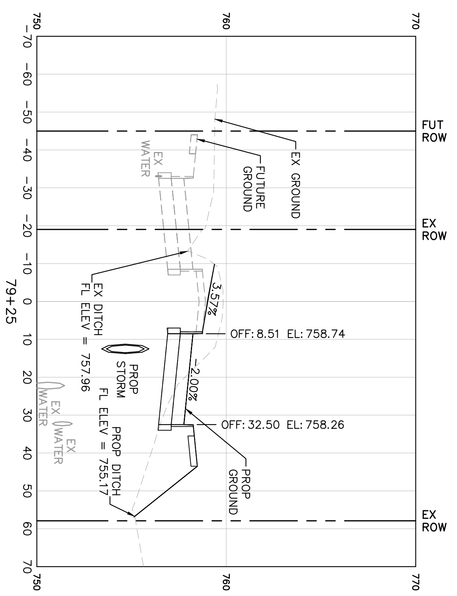
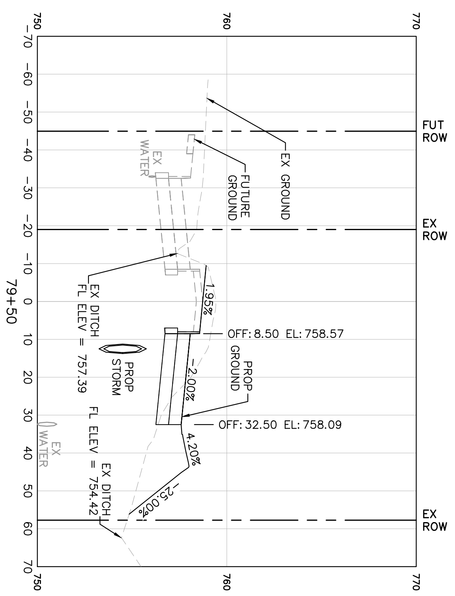
Filename:

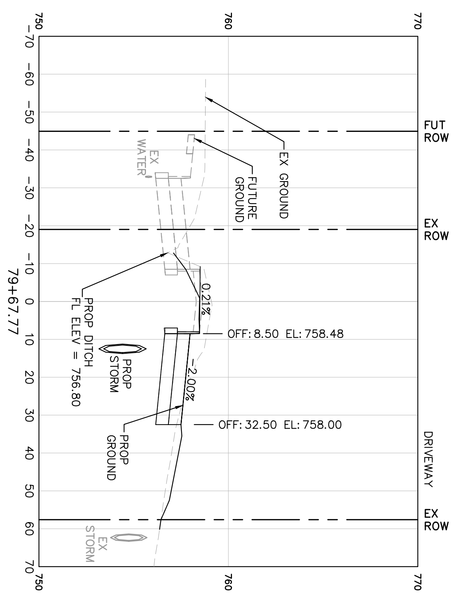


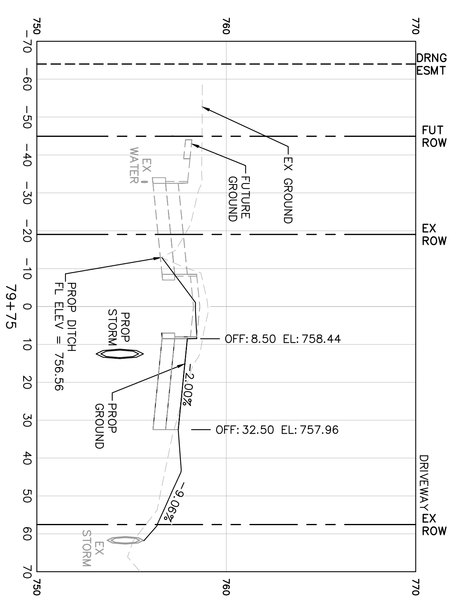


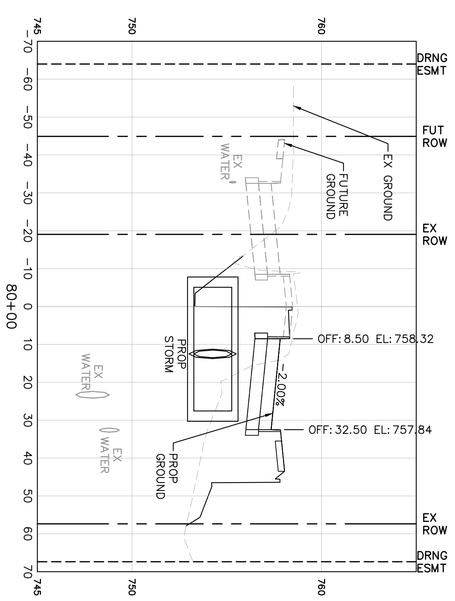


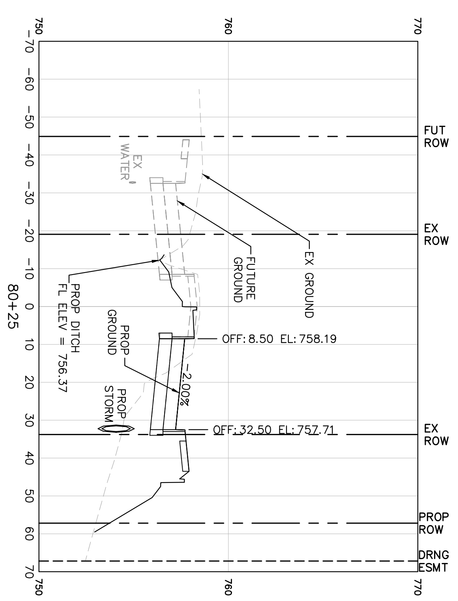












C1.80
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

CROSS SECTIONS - STA 78+50 TO STA 80+25

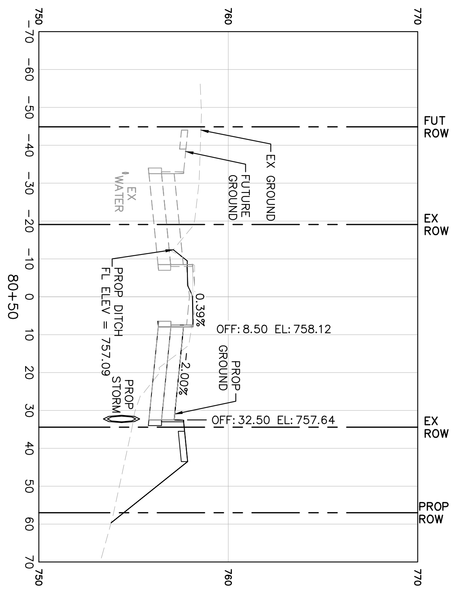
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

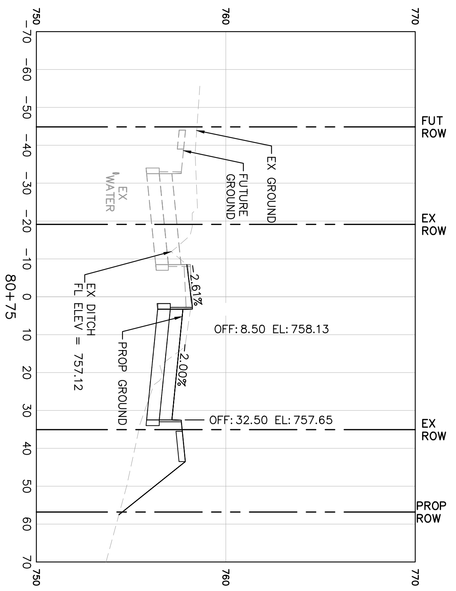
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

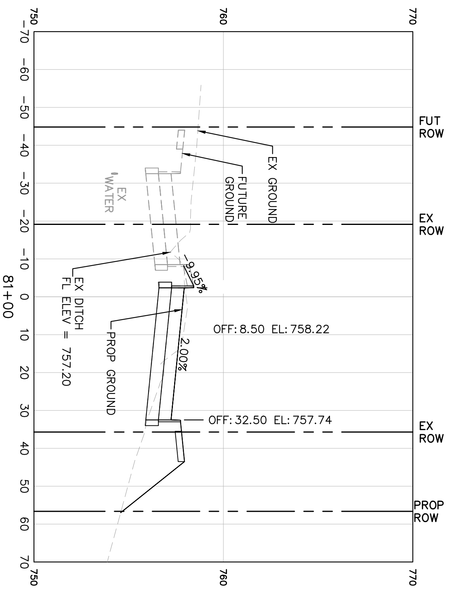
Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

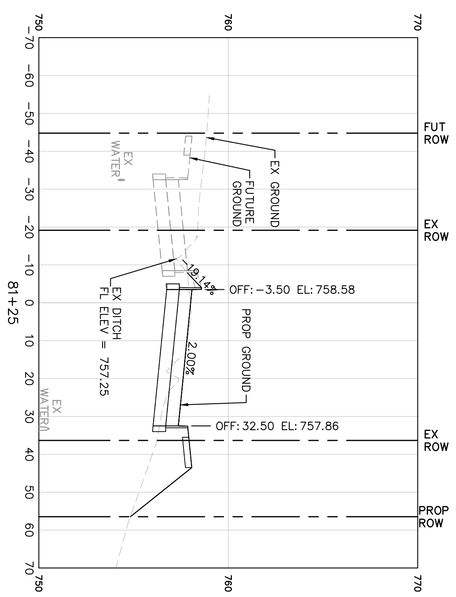
No.	Revision	By	Date

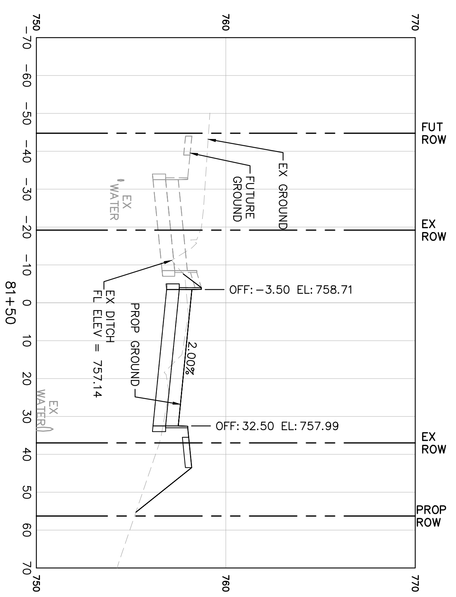
2026-08-21 11:20:38, Del Rosso, Austin
2026-08-21 10:56:14 (CROSS SECTIONS - STA 80+50 TO STA 82+50)
Plotted, By:
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\design\ocorridor_sta 72+00 to end.dwg
Filename:

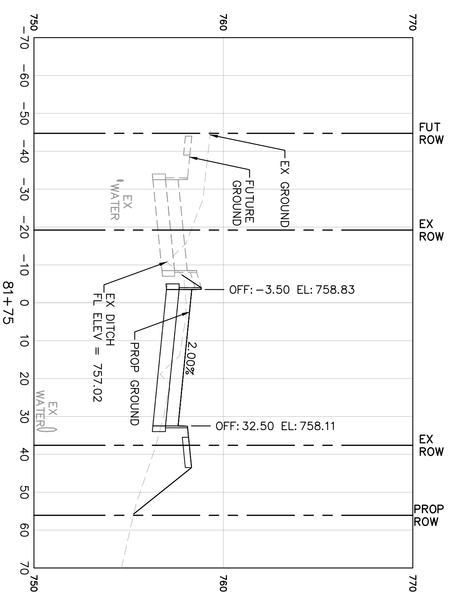


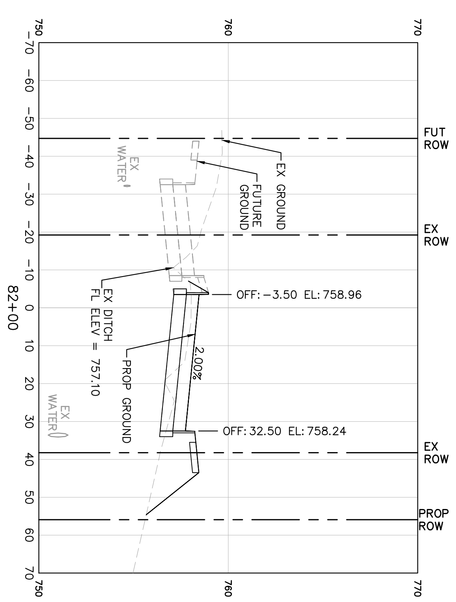


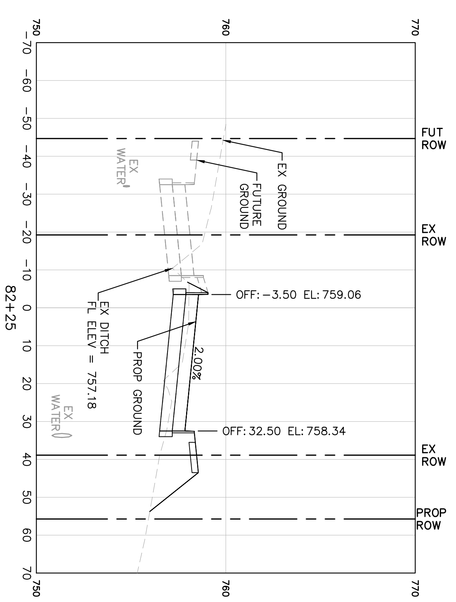


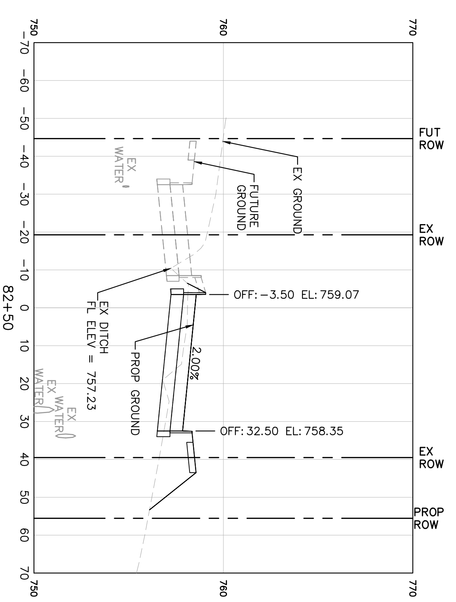












C1.81
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

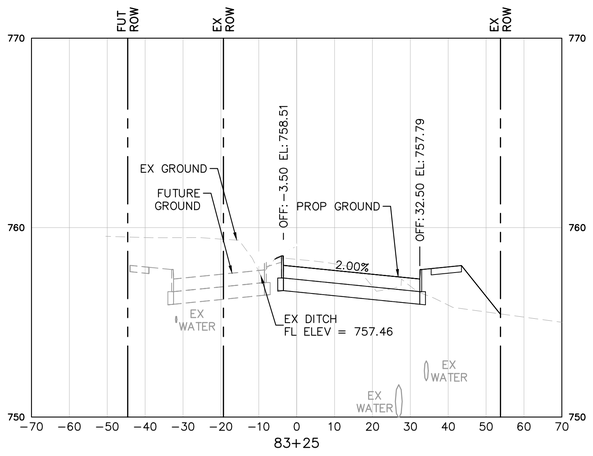
CROSS SECTIONS - STA 80+50 TO STA 82+50

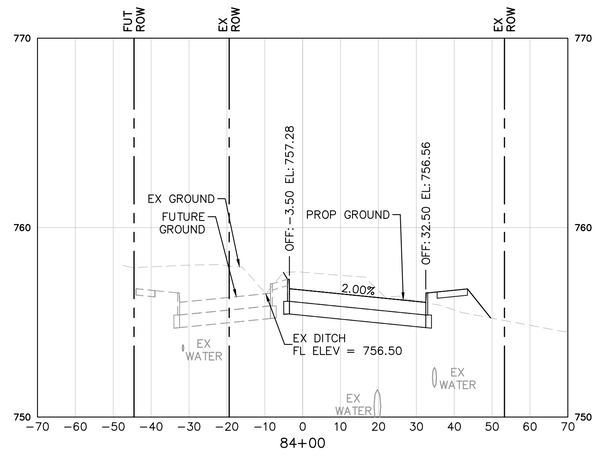
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

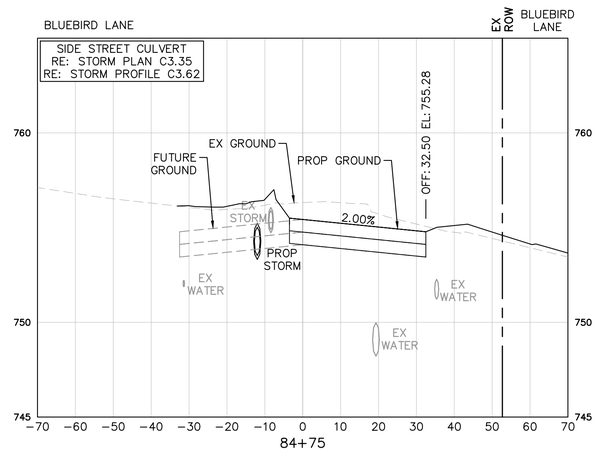
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

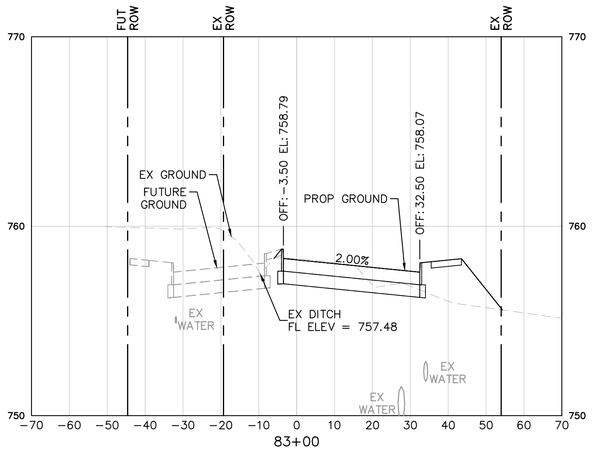
Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

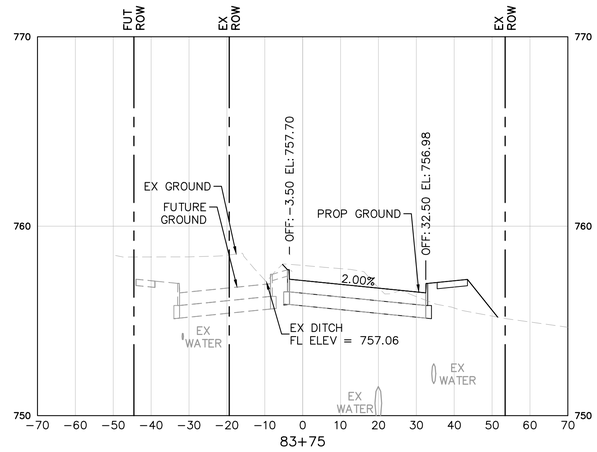
No.	Revision	By	Date

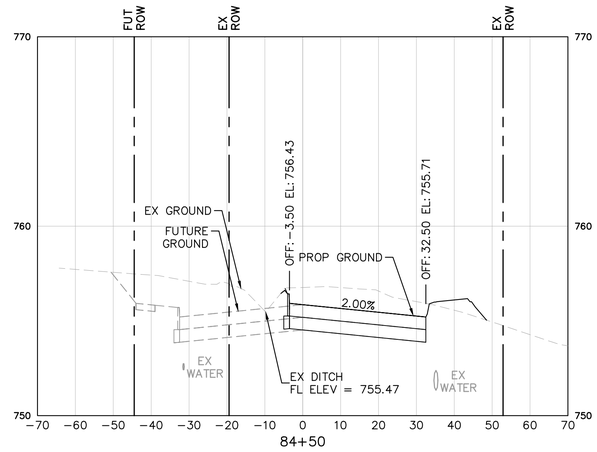


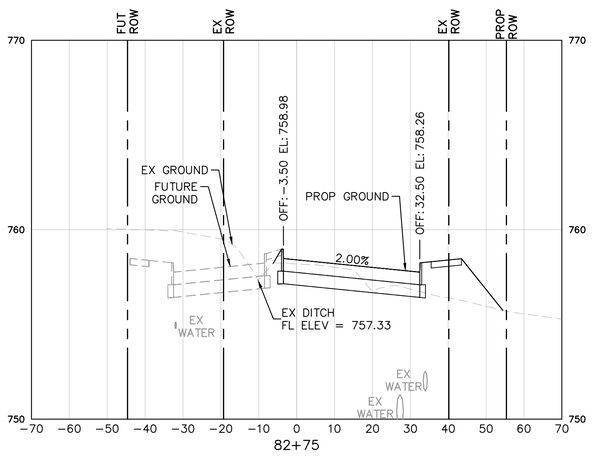


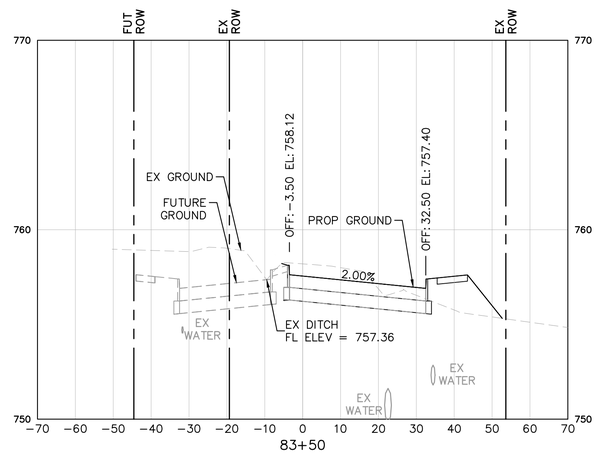


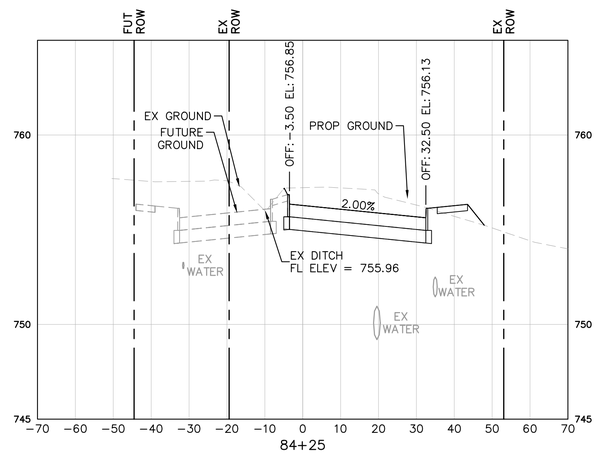












Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL ENGINEER
8/21/2026

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

CROSS SECTIONS - STA 82+75 TO STA 84+75

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C1.82

Plotted, By: 2026-08-21 11:20:45, Del Rosso, Austin
Last Saved: 2026-08-21 10:56:14 (CROSS SECTIONS – STA 82+75 TO STA 84+75)
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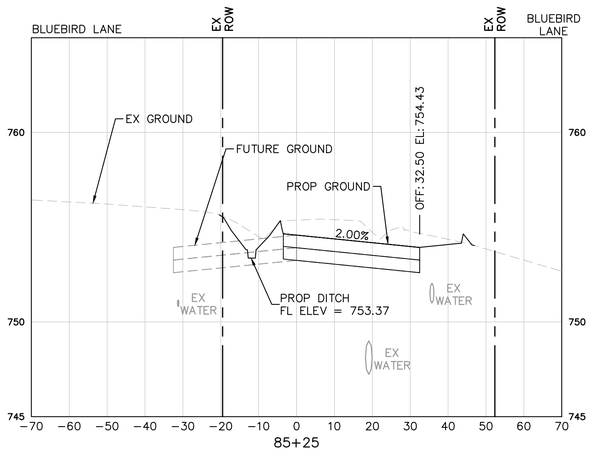
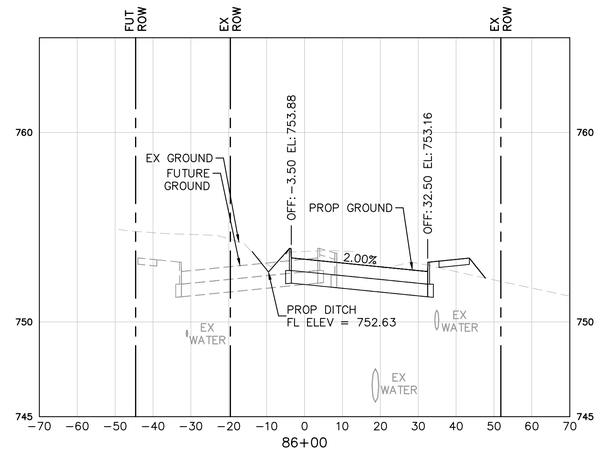
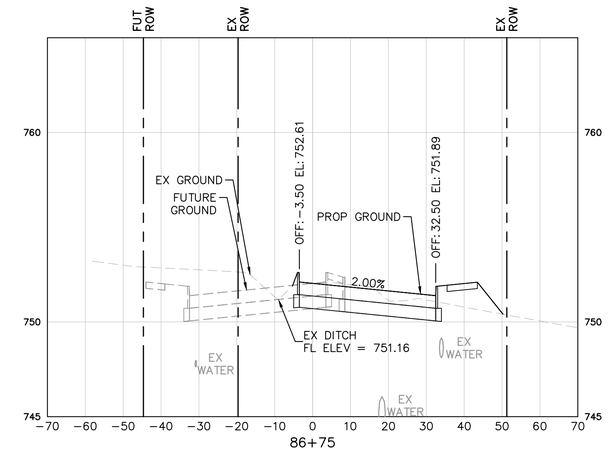
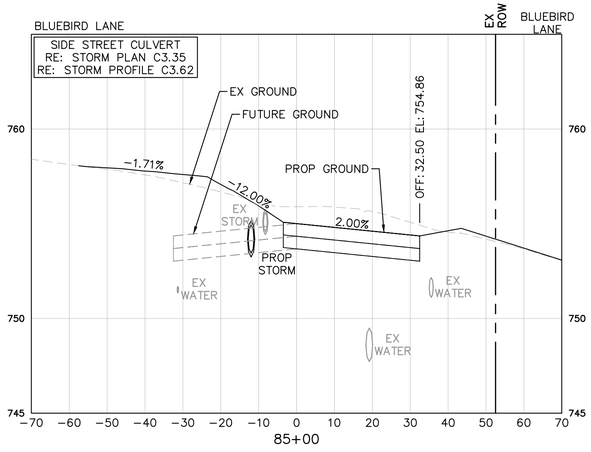
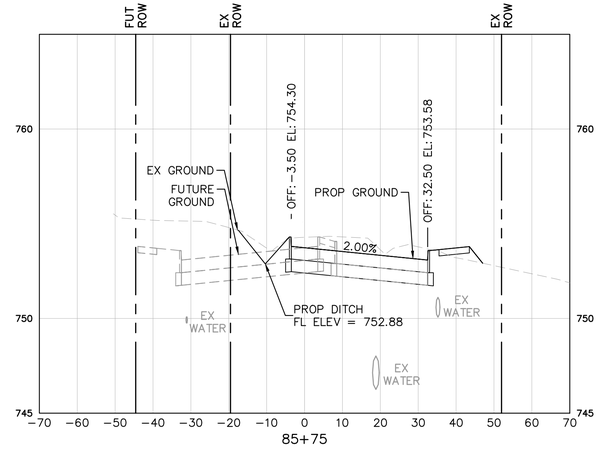
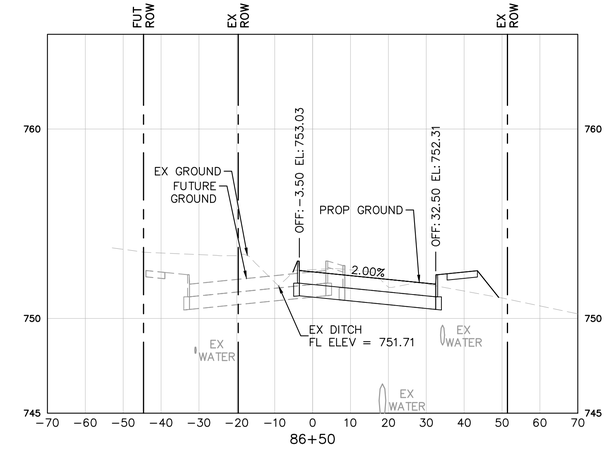


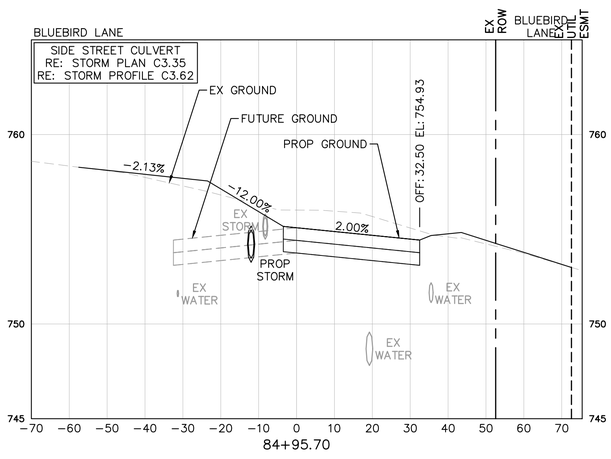


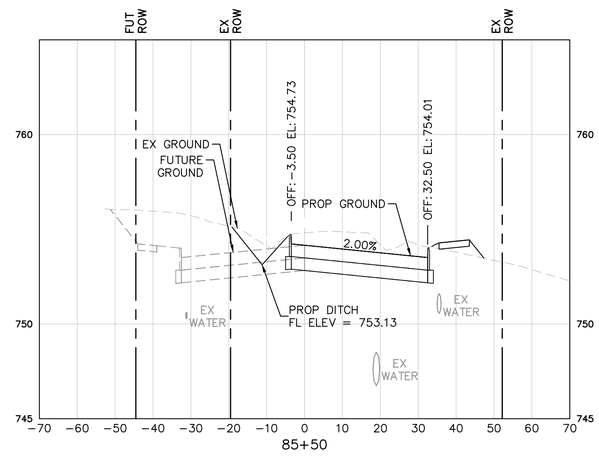


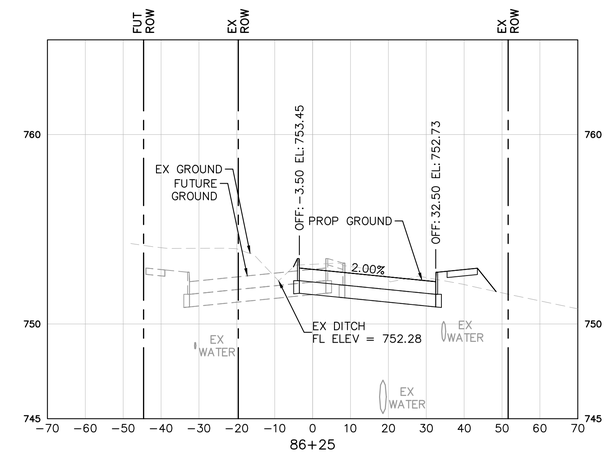












Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER

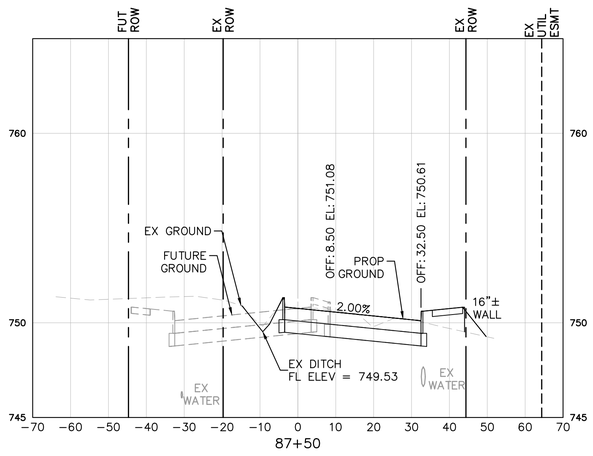
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

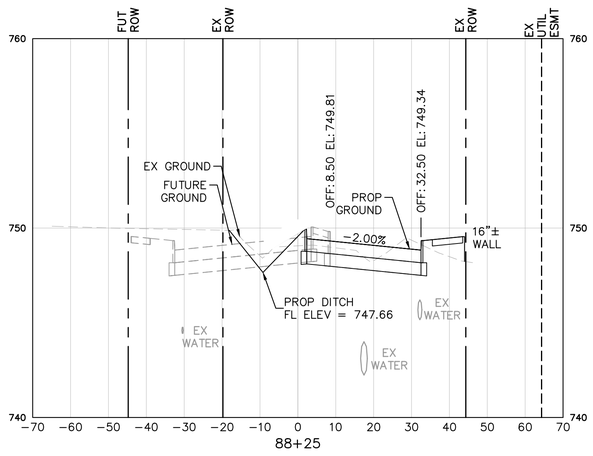
CROSS SECTIONS - STA
84+95.70 TO STA 86+75

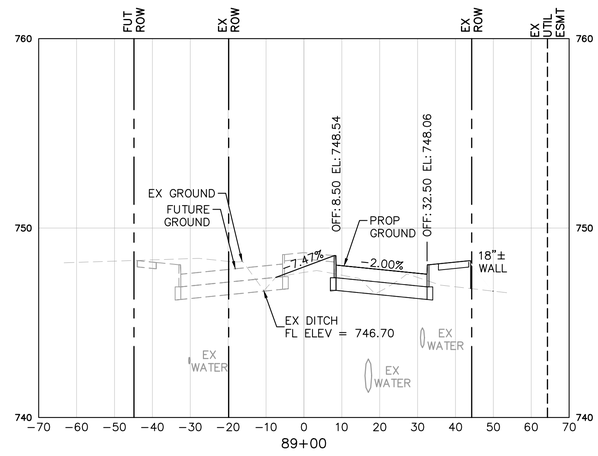
DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

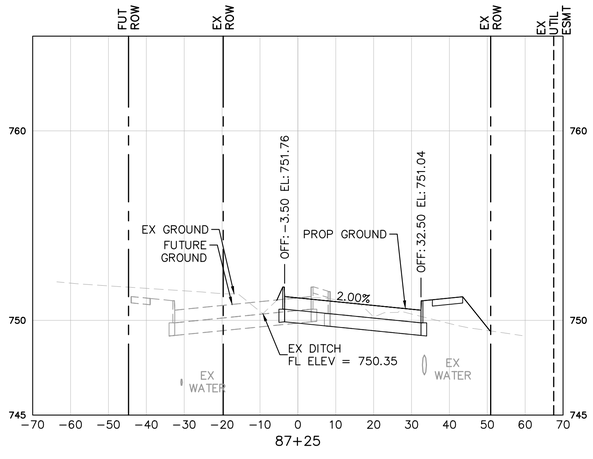
SHEET NUMBER
C1.83

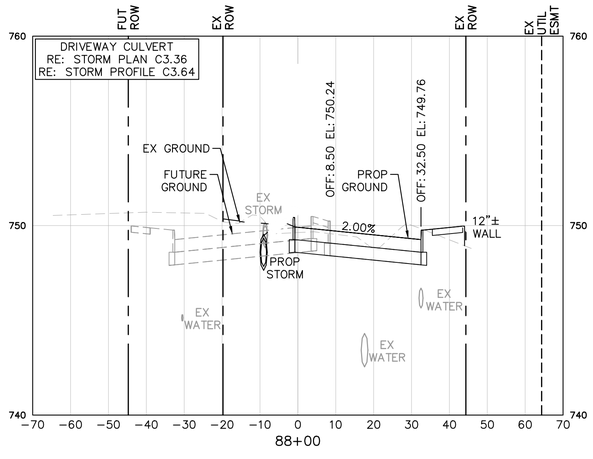
Plotted By: 2026-08-21 11:20:53, Del Rosso, Austin
Last Saved: 2026-08-21 10:56:14 (CROSS SECTIONS – STA 84+95.70 TO STA 86+75)
Filename: k:\tw_roadway\061265047_midlothian mockingbird lane\cadd\design\ccorridor_sta 72+00 to end.dwg

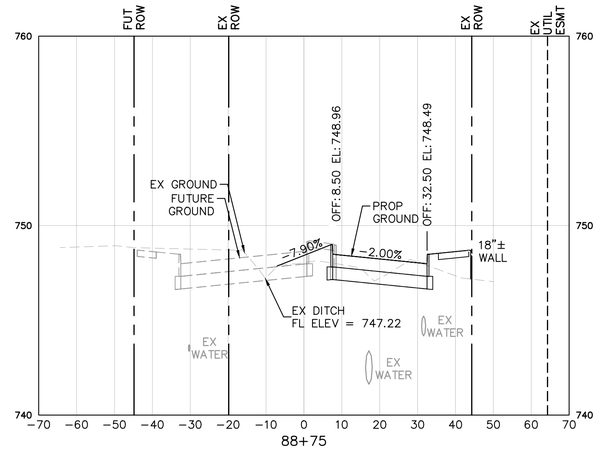


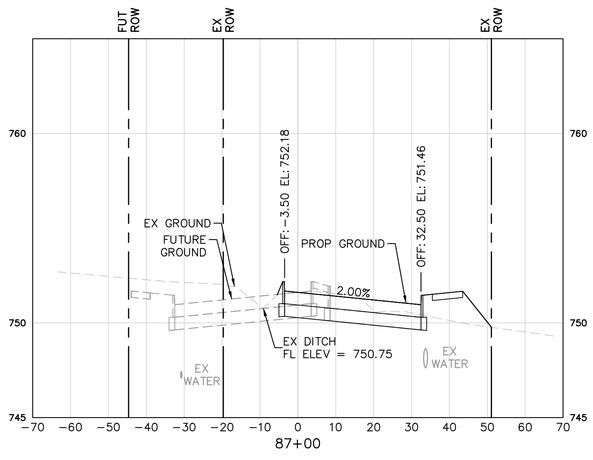


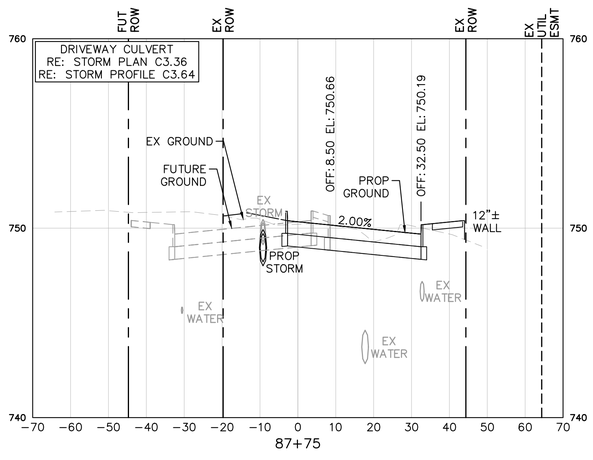


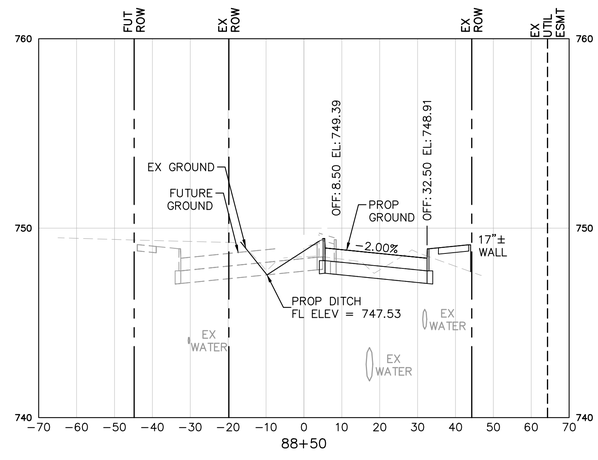












Plotted By: 2026-08-21 11:21:01, Del Rosso, Austin
Last Saved: 2026-08-21 10:56:14 (CROSS SECTIONS - STA 87+00 TO STA 89+00)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\design\corridor_sta 72+00 to end.dwg

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

CROSS SECTIONS - STA 87+00 TO STA 89+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C1.84

2026-08-21 11:21:09, Del Rosso, Austin
2026-08-21 10:56:14 (CROSS SECTIONS - STA 89+25 TO STA 90+75)
Plotted, By:
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\design\ocorridor_sta 72+00 to end.dwg
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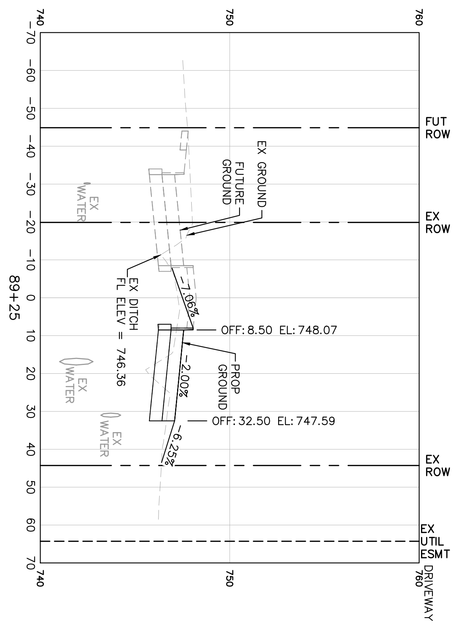

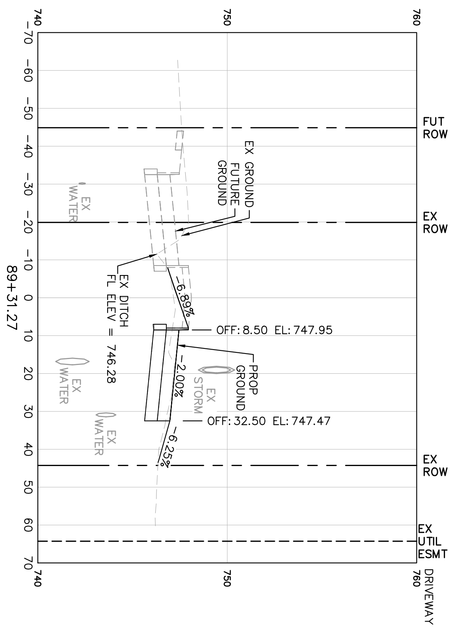

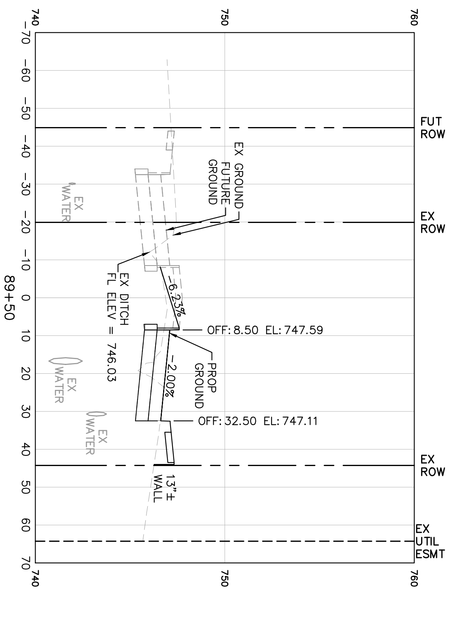

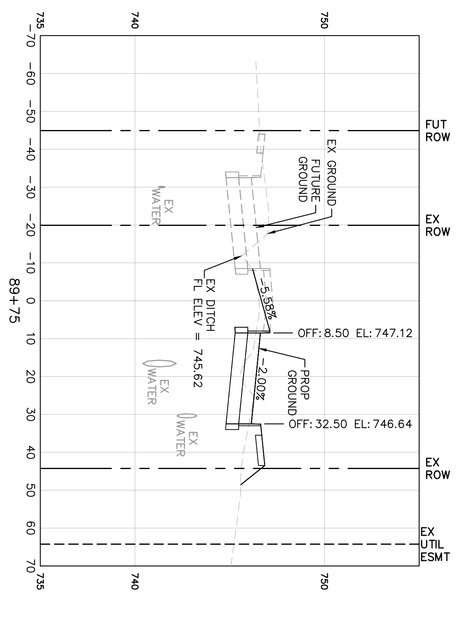

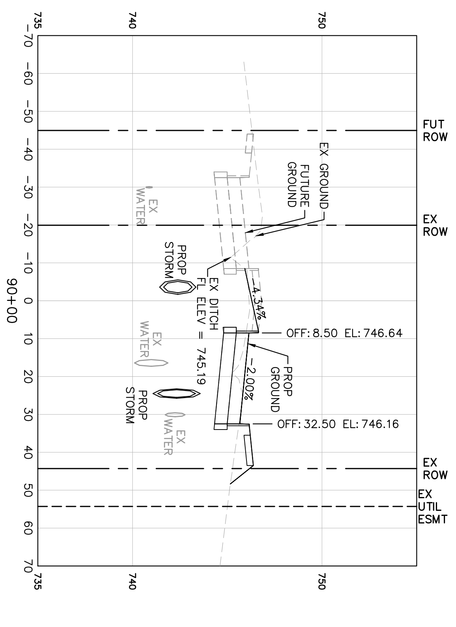

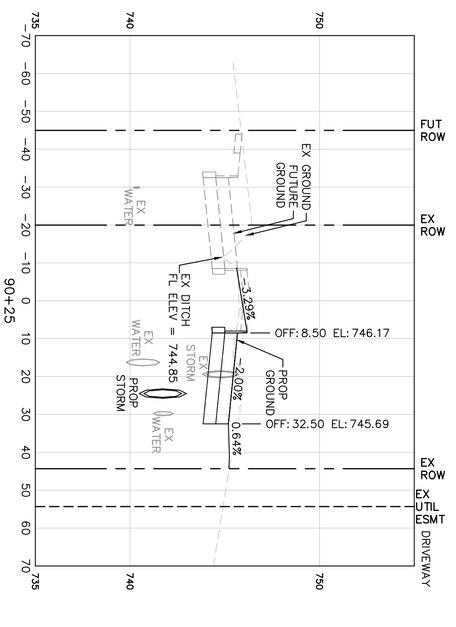

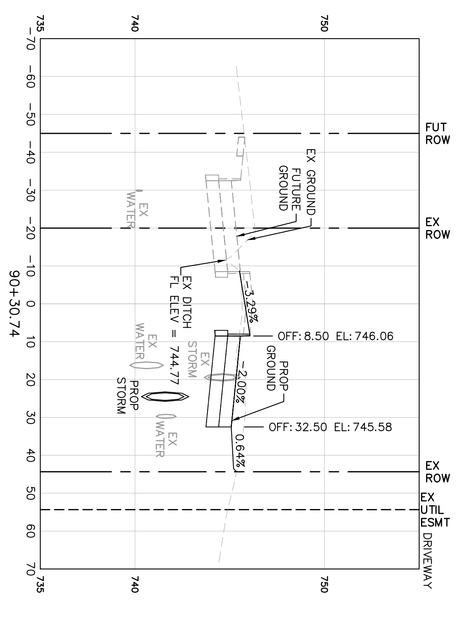

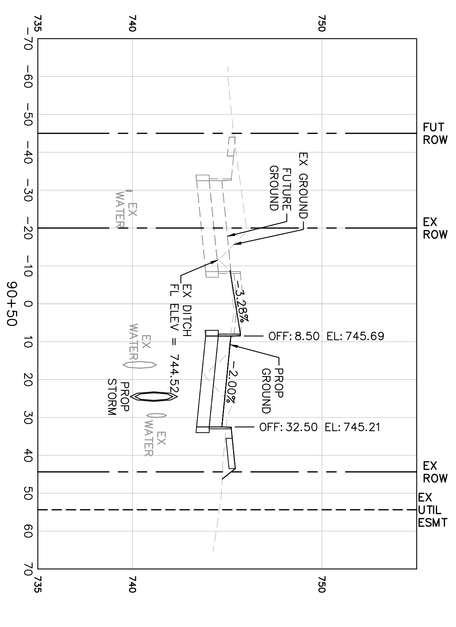

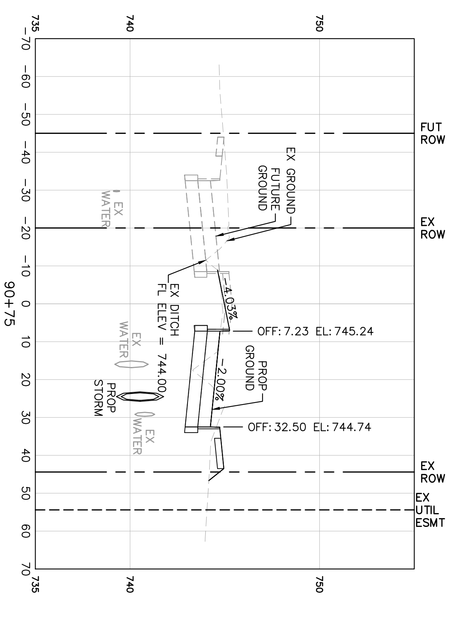

C1.85
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

CROSS SECTIONS - STA 89+25 TO STA 90+75

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

2026-08-21 11:21:17, Del Rosso, Austin
2026-08-21 10:56:14 (CROSS SECTIONS - STA 91+00 TO STA 93+00)
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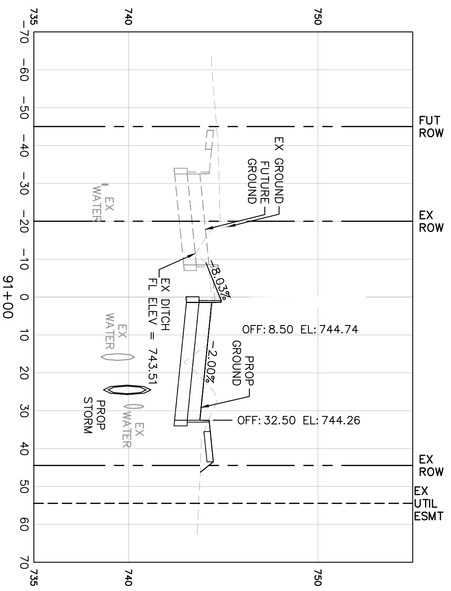
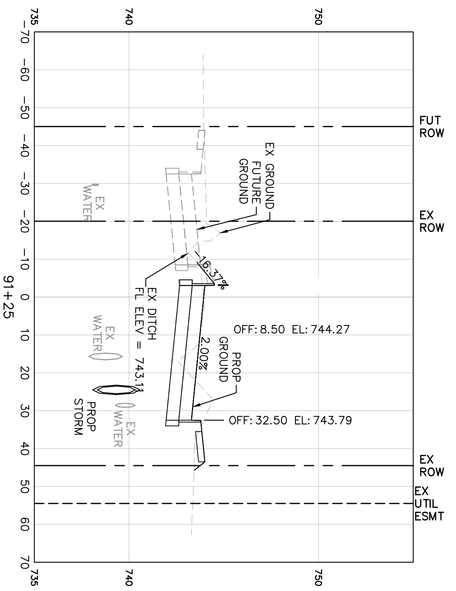
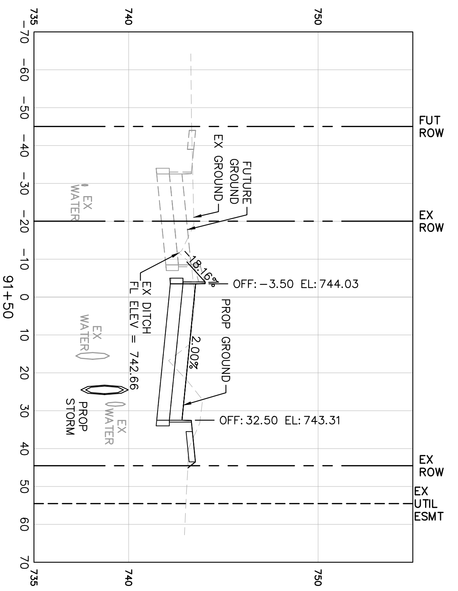
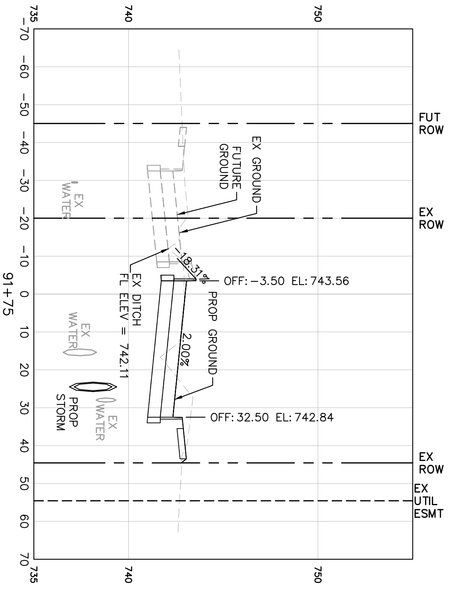
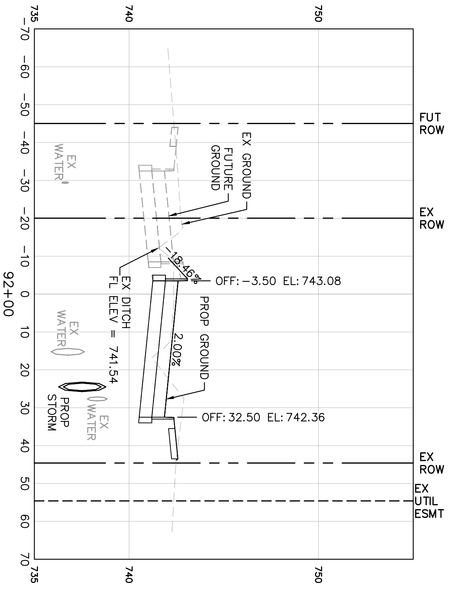
Filename:

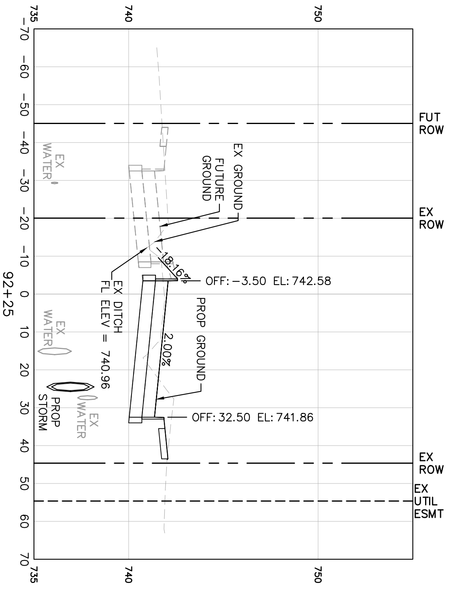


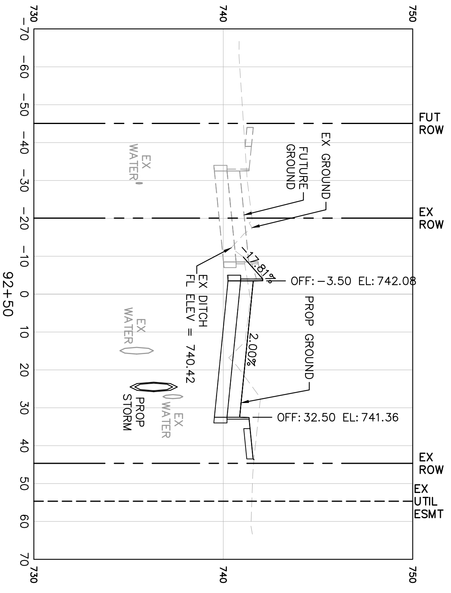


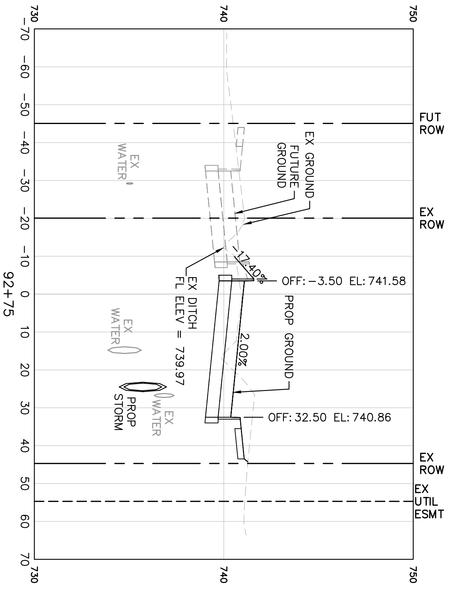


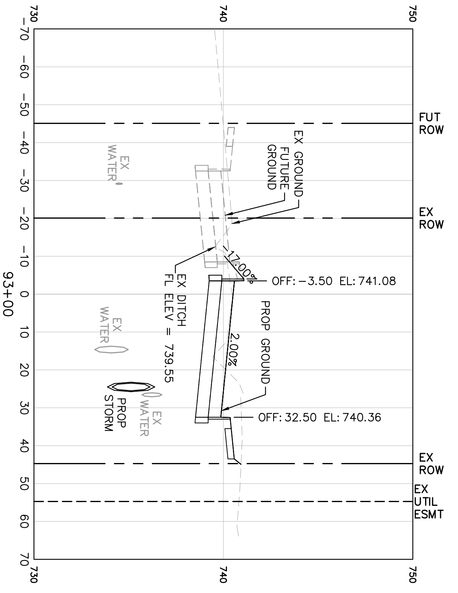












C1.86
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

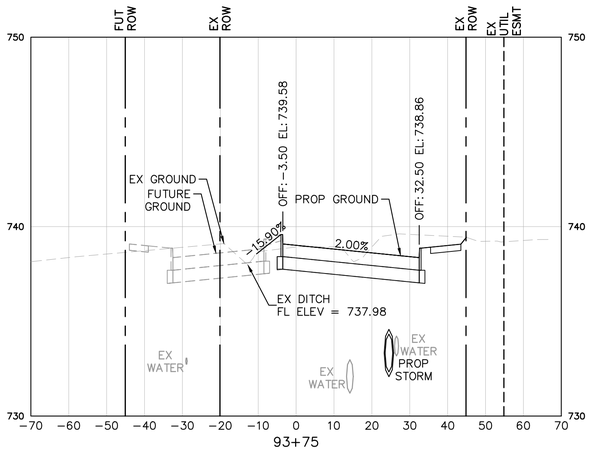
CROSS SECTIONS - STA 91+00 TO STA 93+00

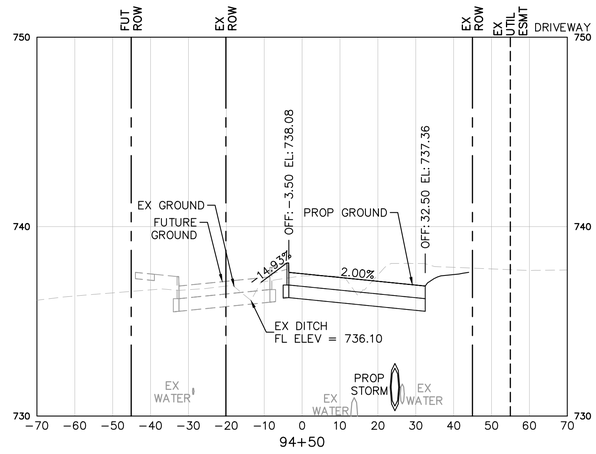
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

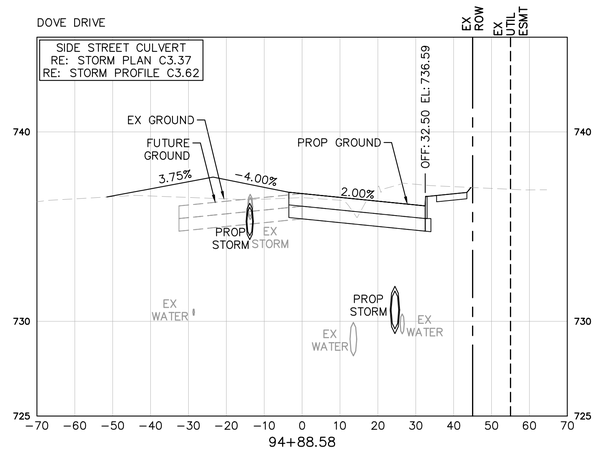
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

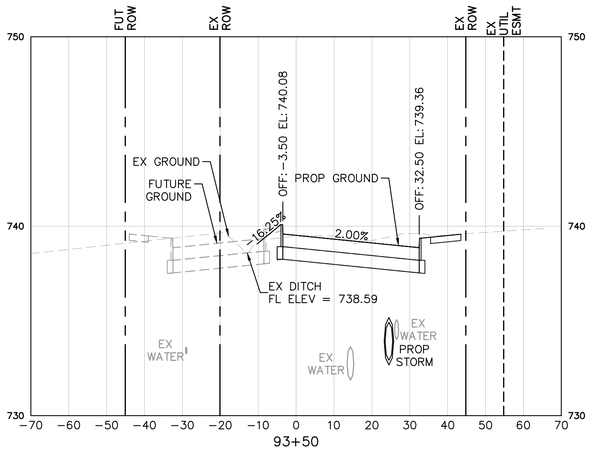
Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

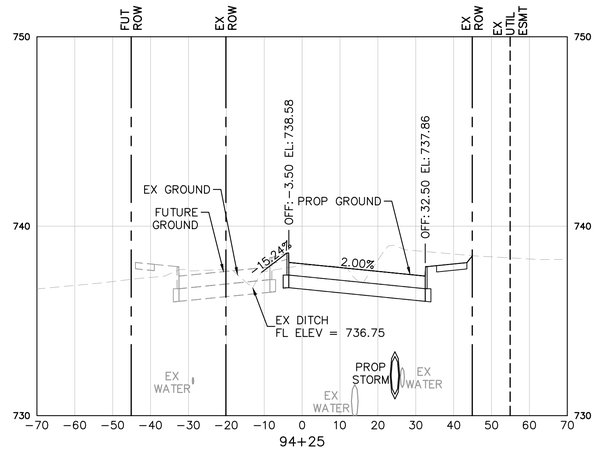
No.	Revision	By	Date

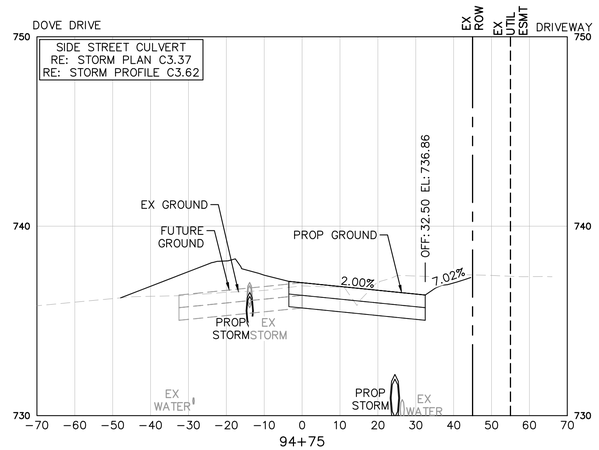


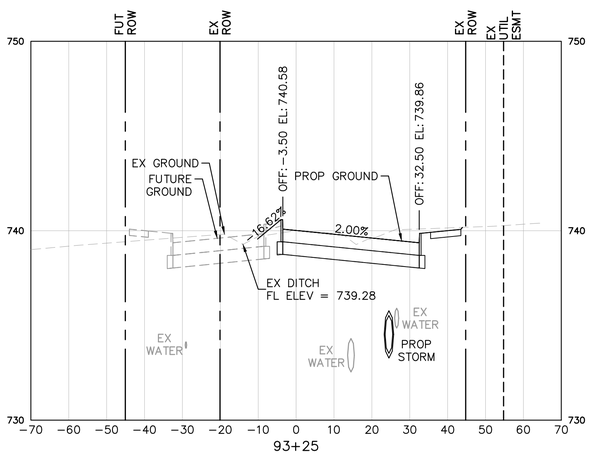


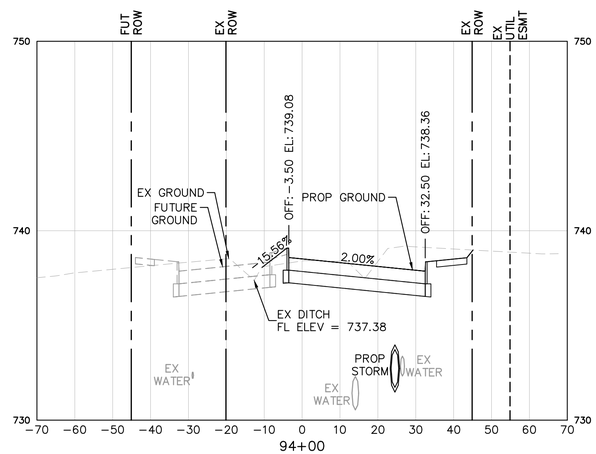


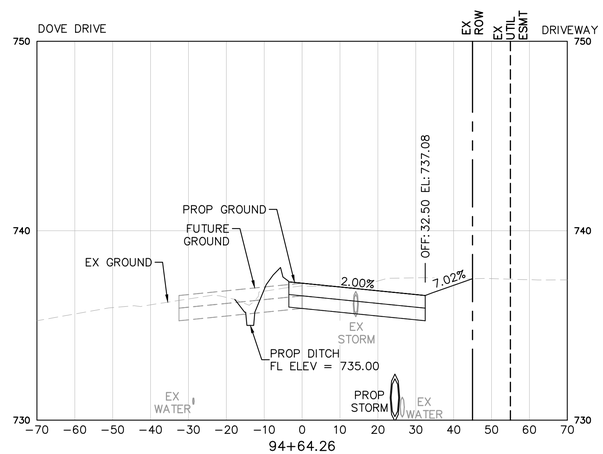












Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

CROSS SECTIONS - STA 93+25 TO STA 94+88.51

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C1.87

Plotted By: 2026-08-21 11:21:24, Del Rosso, Austin
Last Saved: 2026-08-21 10:56:14 (CROSS SECTIONS - STA 93+25 TO STA 94+88.51)
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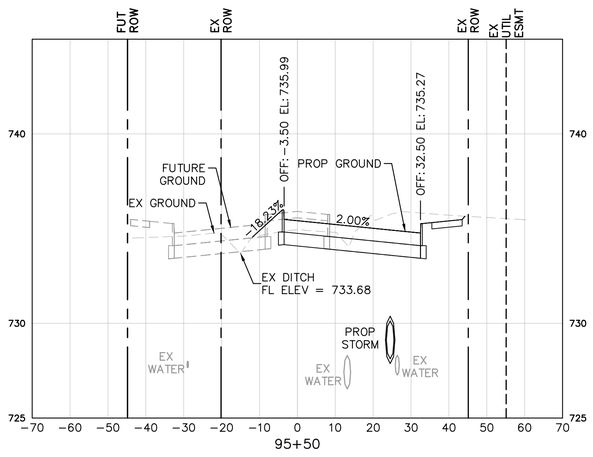

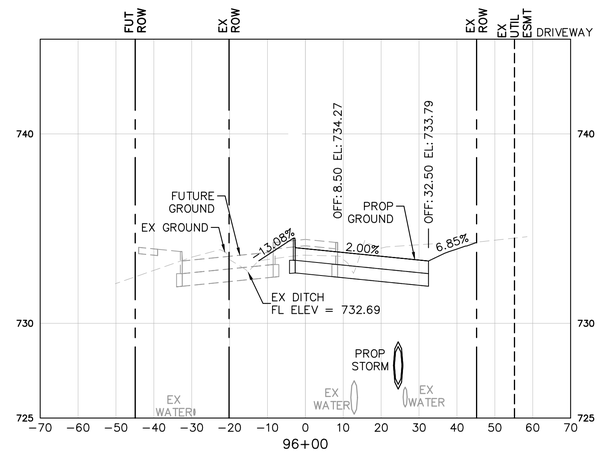

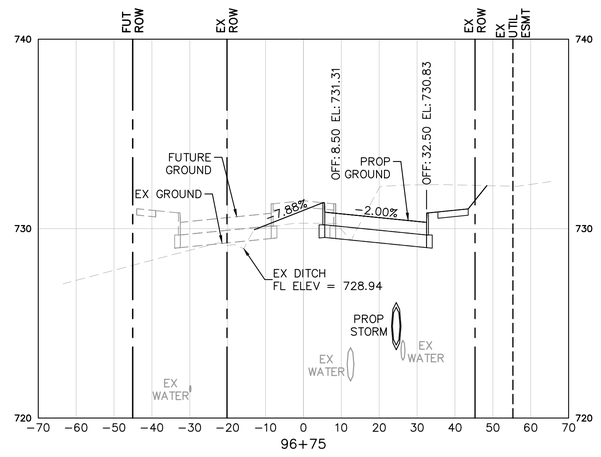

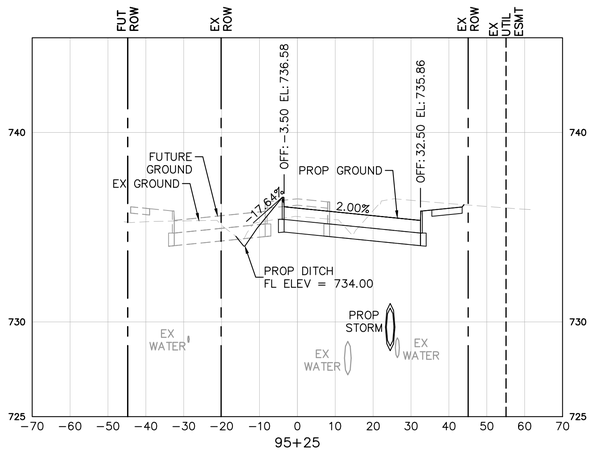

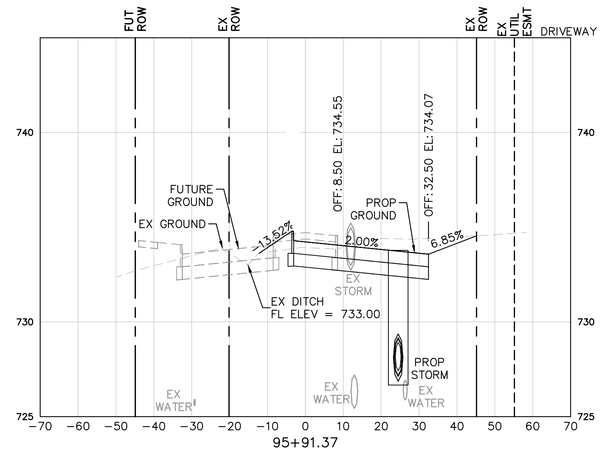

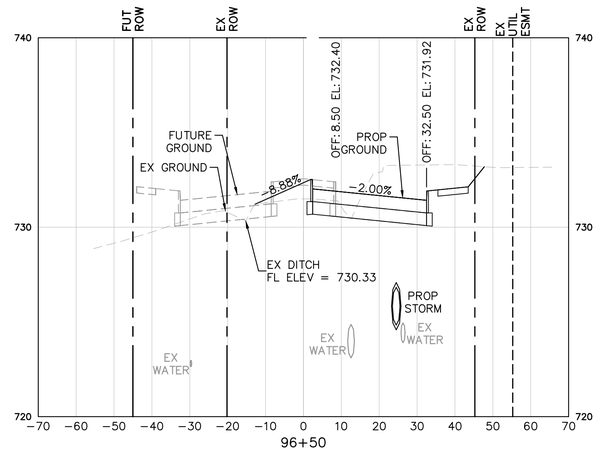

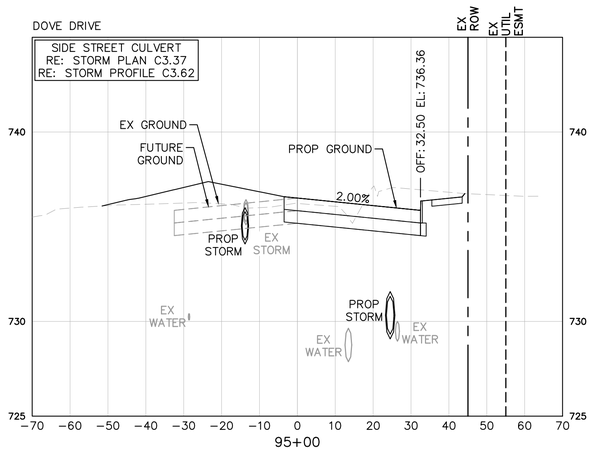

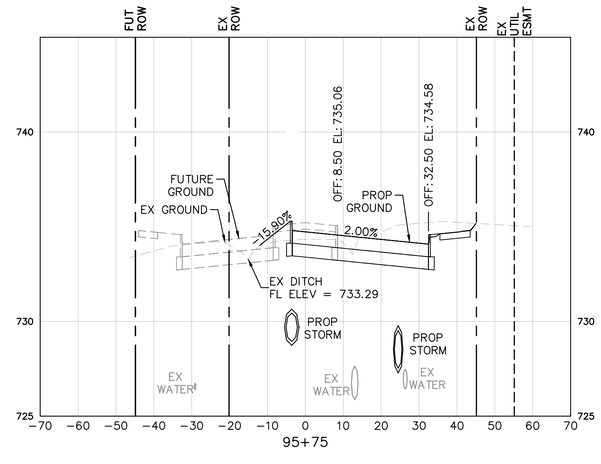

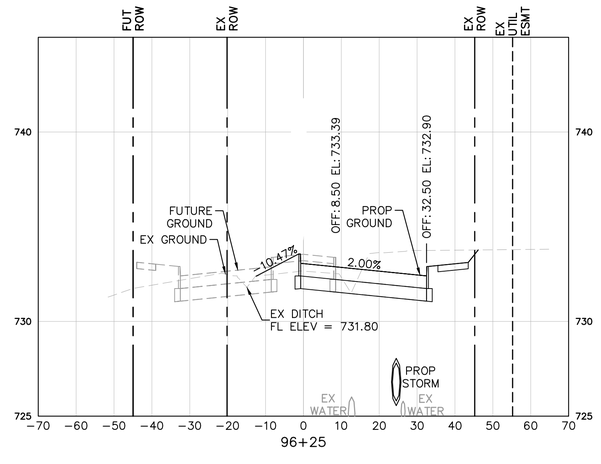

Plotted, By: 2026-08-21 11:21:32, Del Rosso, Austin
Last Saved: 2026-08-21 10:56:14 (CROSS SECTIONS - STA 95+00 TO STA 96+75)
Filename: k:\tw_roadway\061265047_midlothian mockingbird lane\cadd\design\ccorridor_sta 72+00 to end.dwg

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

CROSS SECTIONS - STA 95+00 TO STA 96+75

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C1.88

2026-08-21 11:21:40, Del Rosso, Austin
2026-08-21 10:56:14 (CROSS SECTIONS - STA 97+00 TO STA 99+00)
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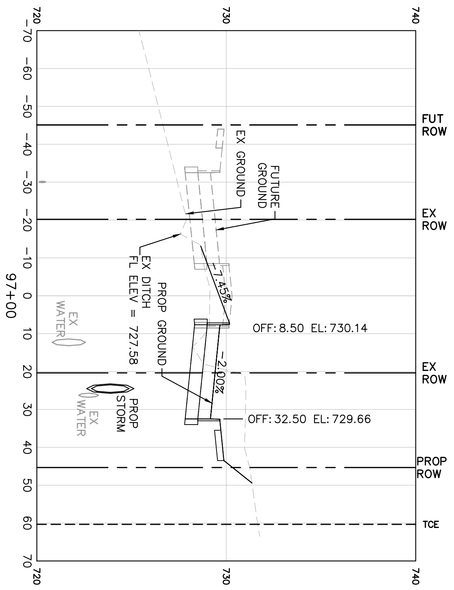

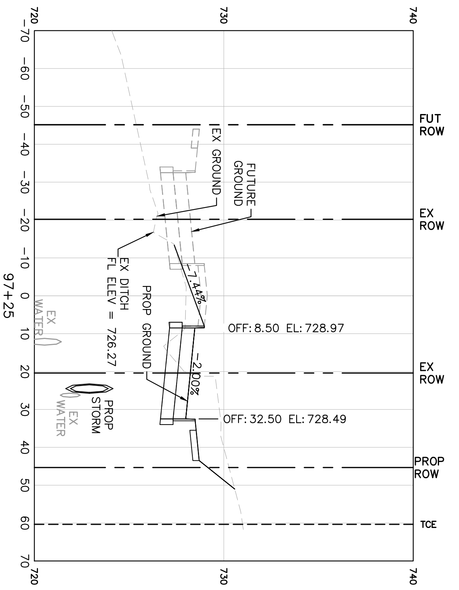

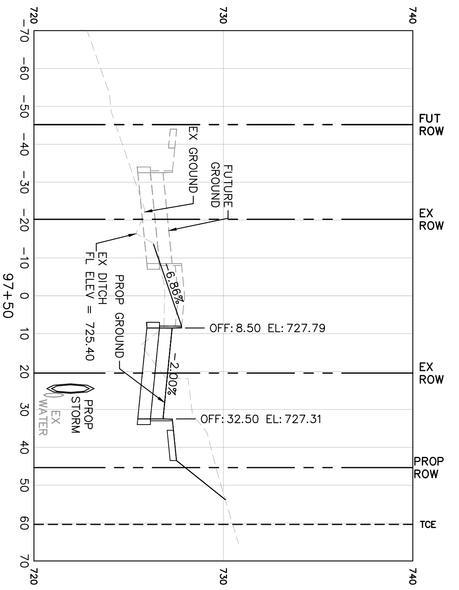

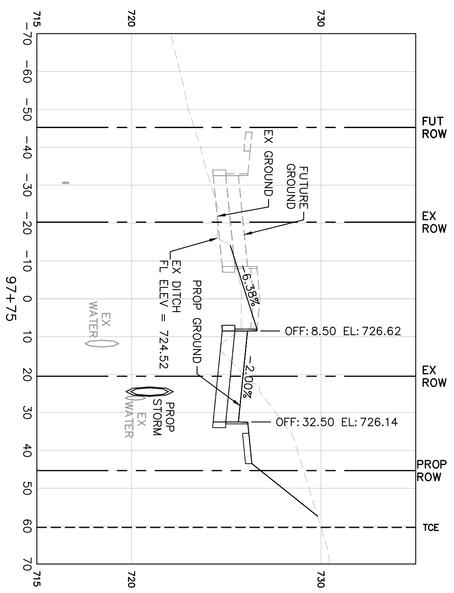

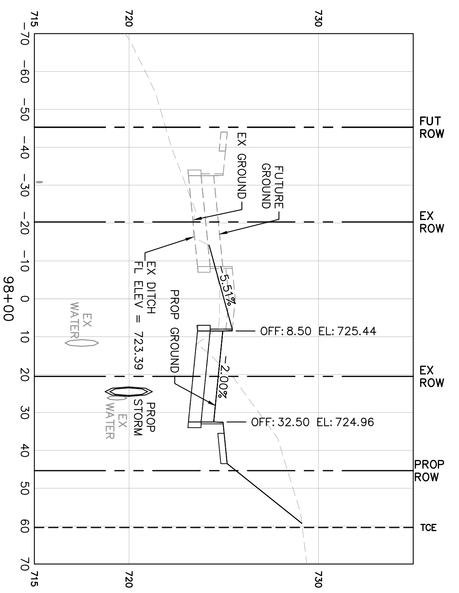

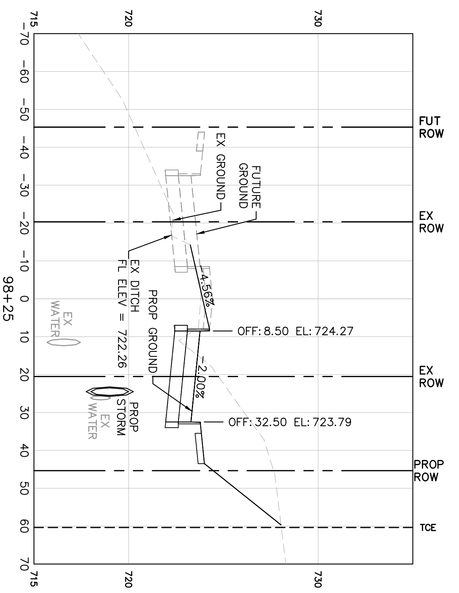

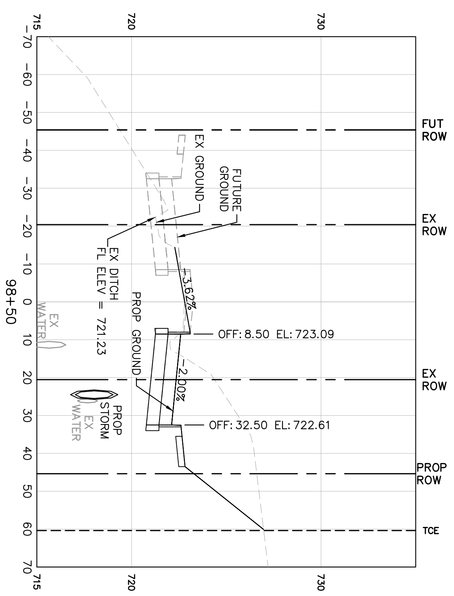

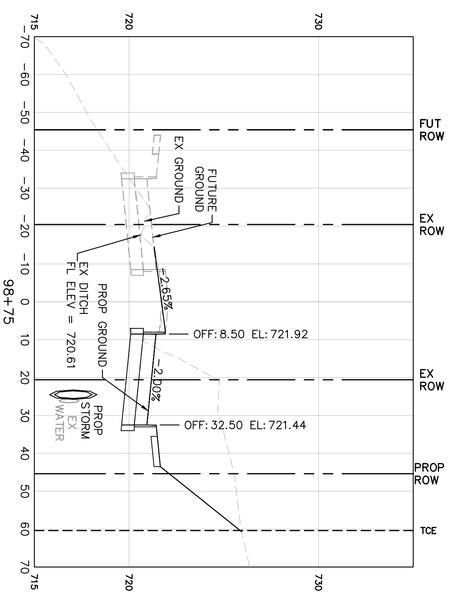

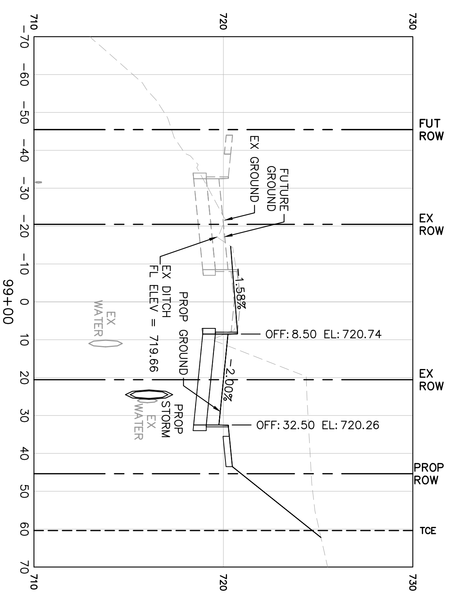

C1.89
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

CROSS SECTIONS - STA 97+00 TO STA 99+00

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

2026-08-21 11:21:48, Del Rosso, Austin
2026-08-21 10:56:14 (CROSS SECTIONS - STA 99+25 TO STA 100+66.44)
Plotted, By:
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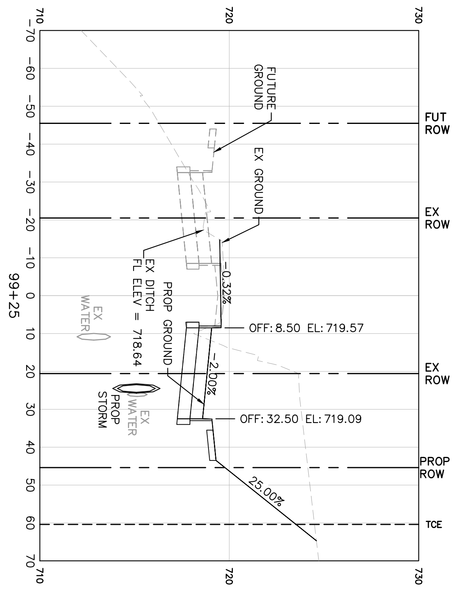
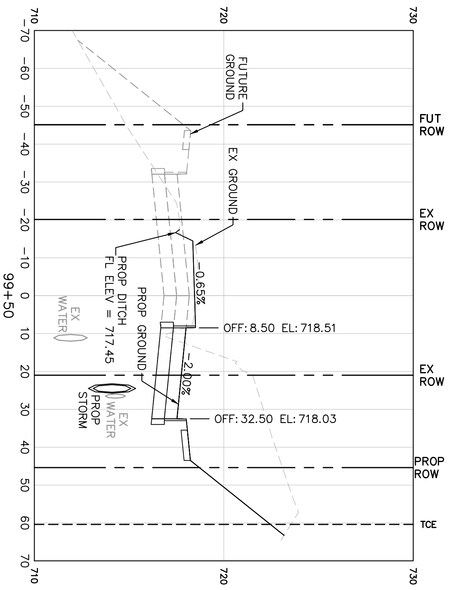
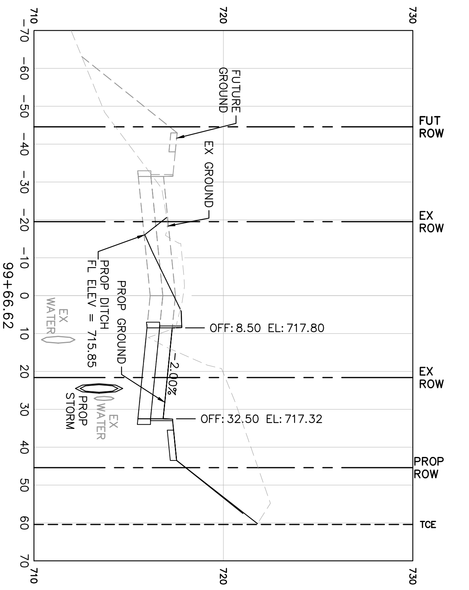
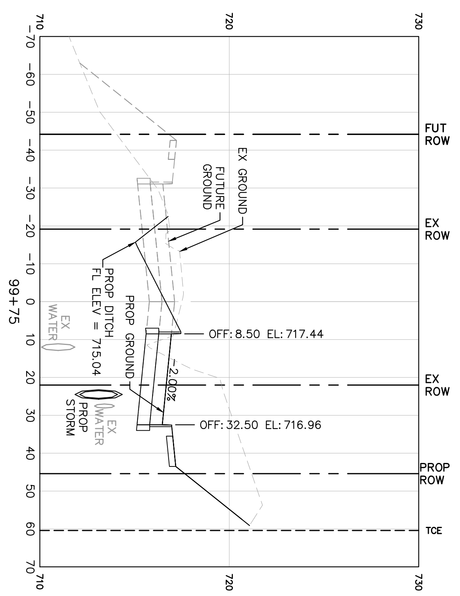
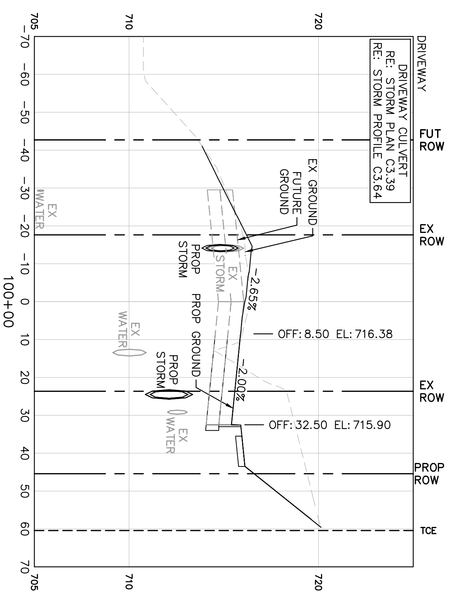
Filename:

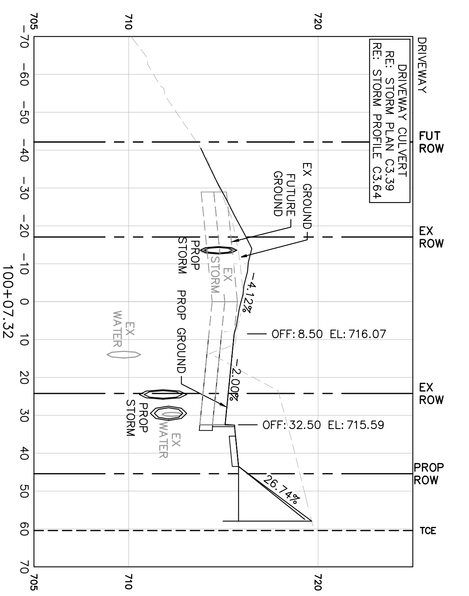


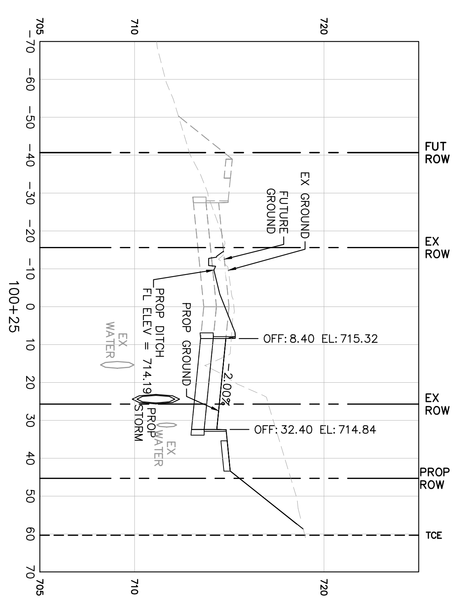


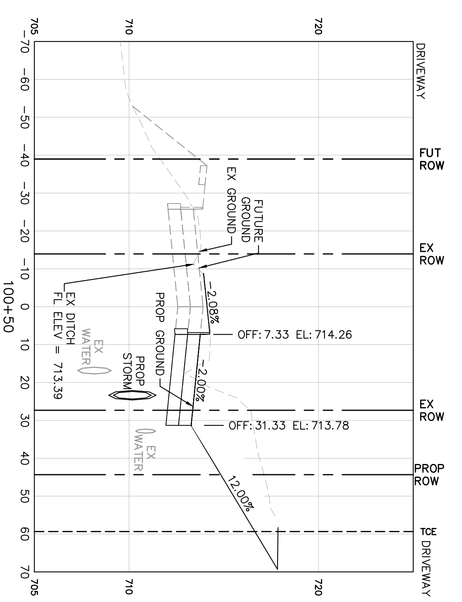


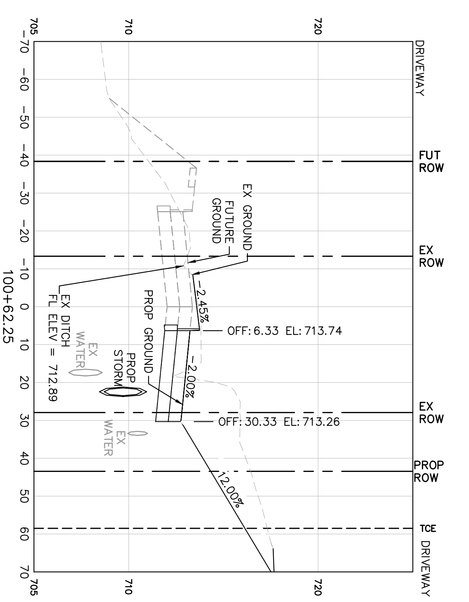












C1.90
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

CROSS SECTIONS - STA 99+25 TO STA 100+66.44

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

2026-08-21 11:21:56, Del Rosso, Austin
2026-08-21 10:56:14 (CROSS SECTIONS - STA 100+75 TO STA 102+50)
Plotted, By:
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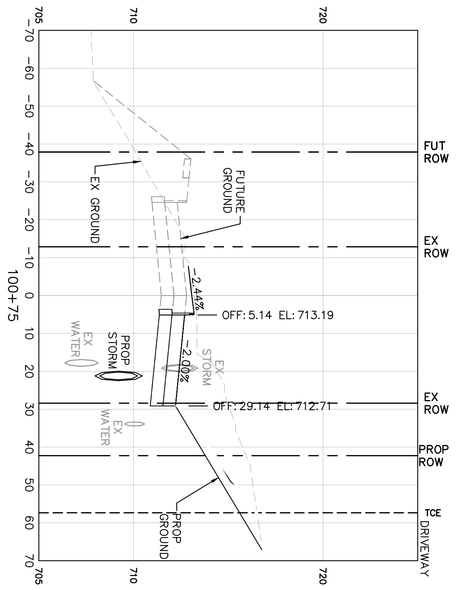
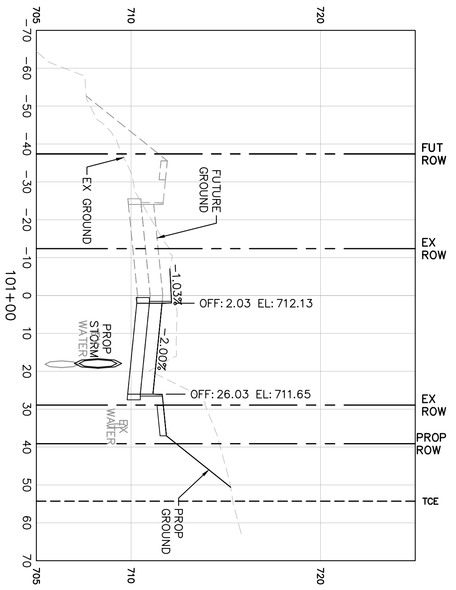
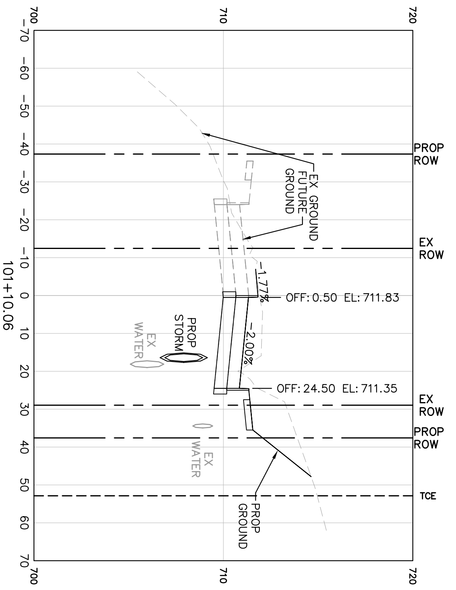
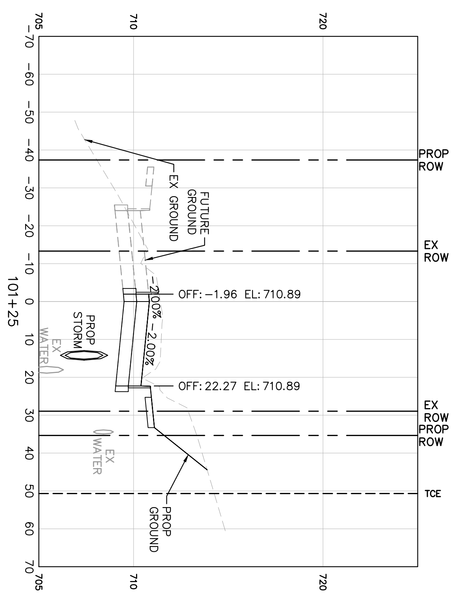
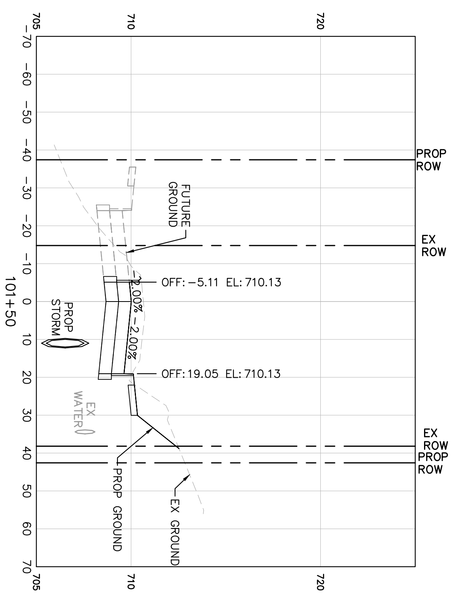
Filename:

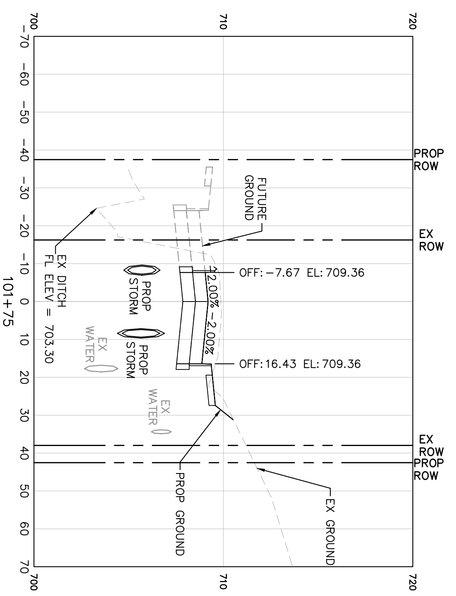


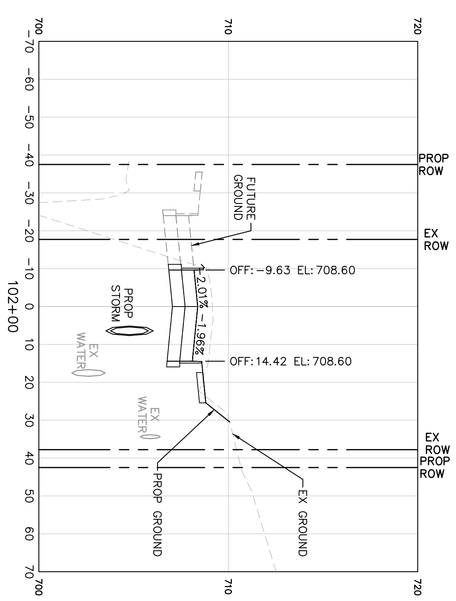


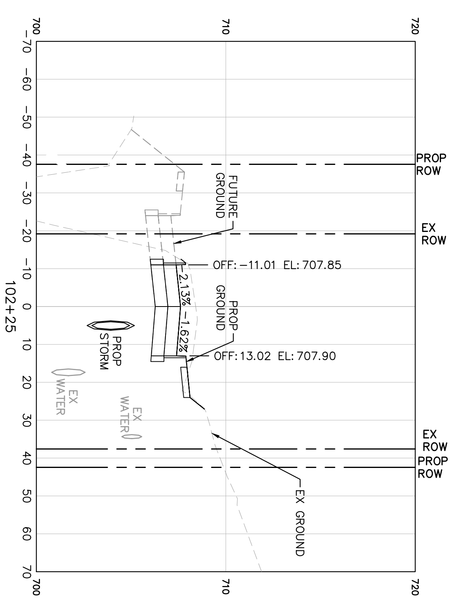


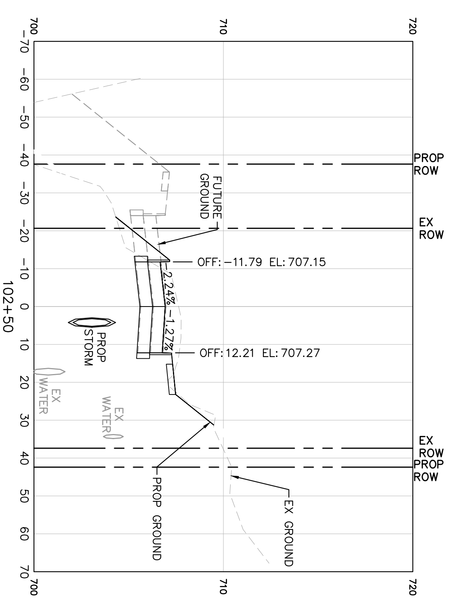












C1.91
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

CROSS SECTIONS - STA 100+75 TO STA 102+50

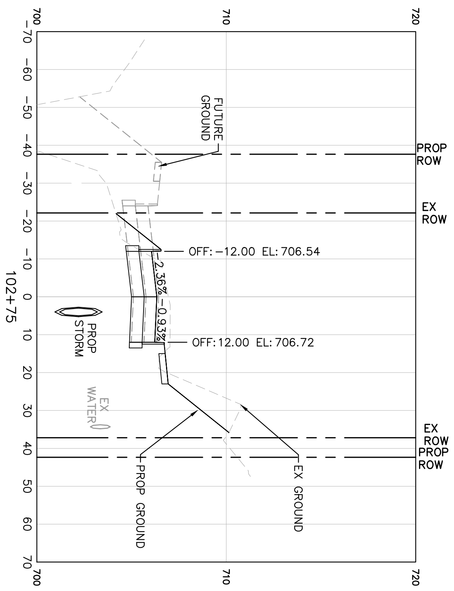
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

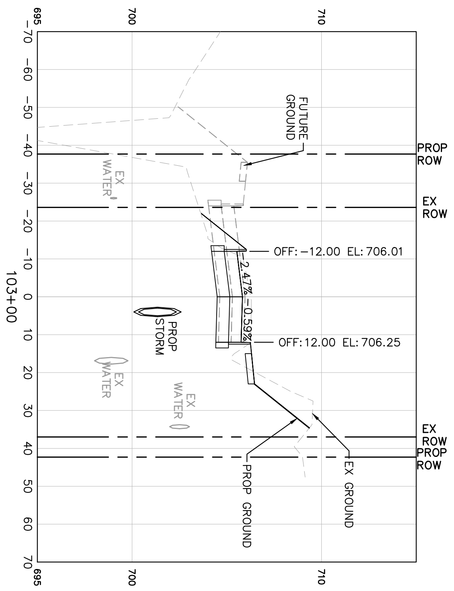
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

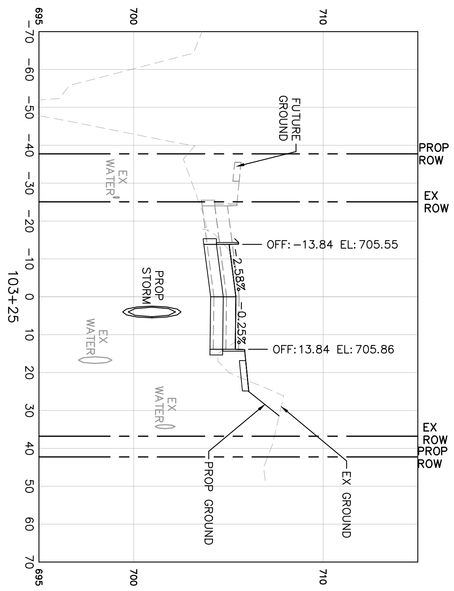
Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

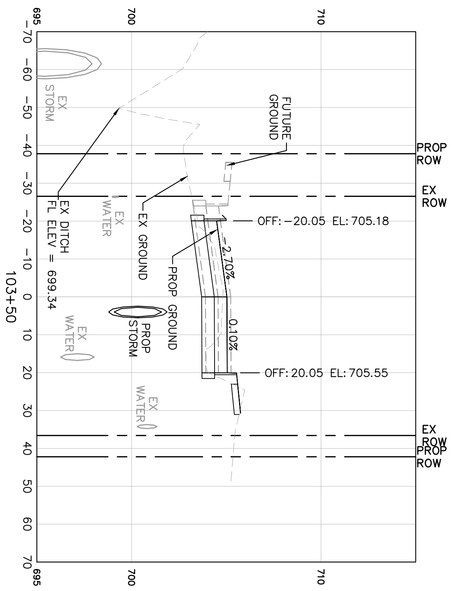
No.	Revision	By	Date

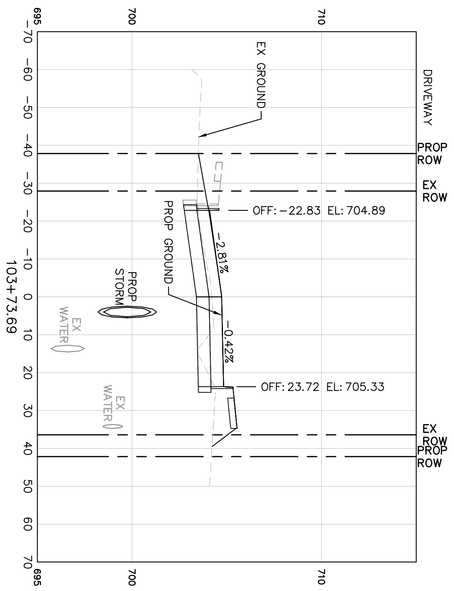
2026-08-21 11:22:03, Del Rosso, Austin
2026-08-21 10:56:14 (CROSS SECTIONS - STA 102+75 TO STA 104+50)
Plotted, By:
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\design\ocorridor_sta 72+00 to end.dwg
Filename:

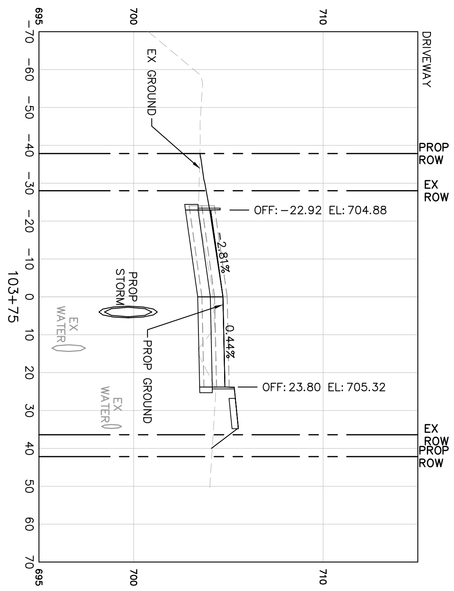


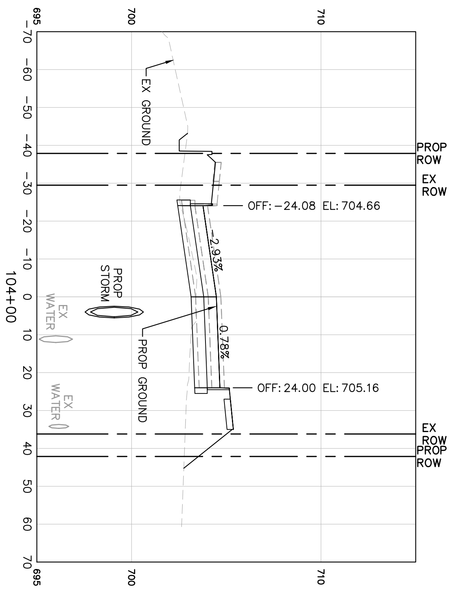


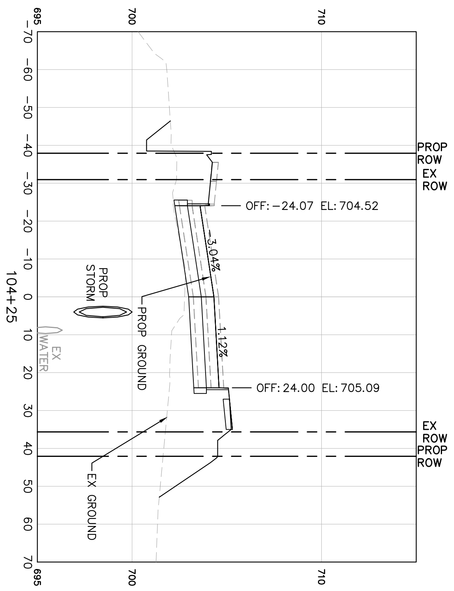


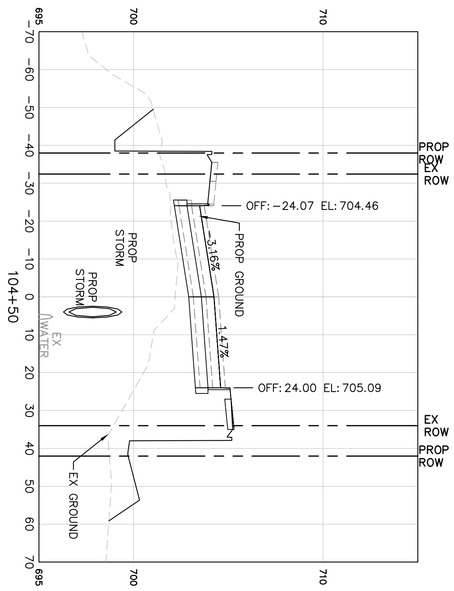












C1.92
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

CROSS SECTIONS - STA 102+75 TO STA 104+50

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

2026-08-21 11:22:10, Del Rosso, Austin
2026-08-21 10:56:14 (CROSS SECTIONS - STA 104+75 TO STA 106+75)
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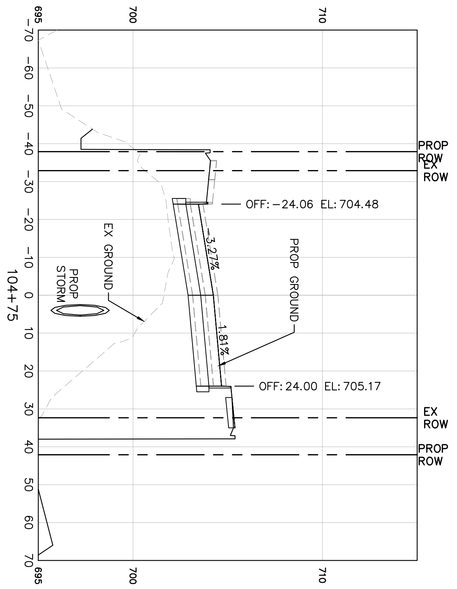
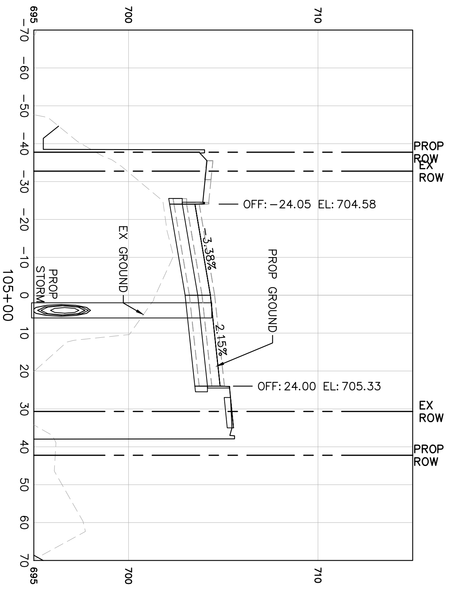
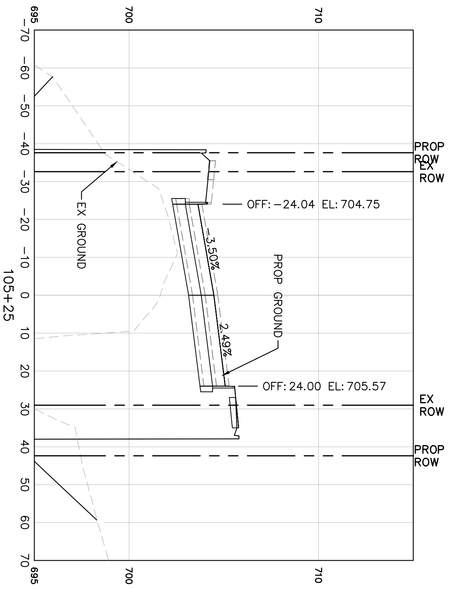
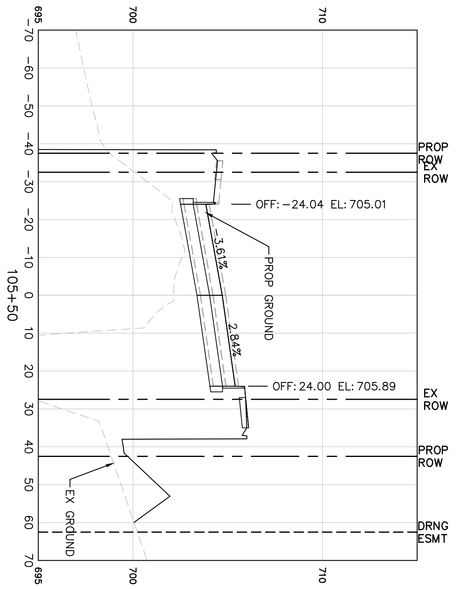
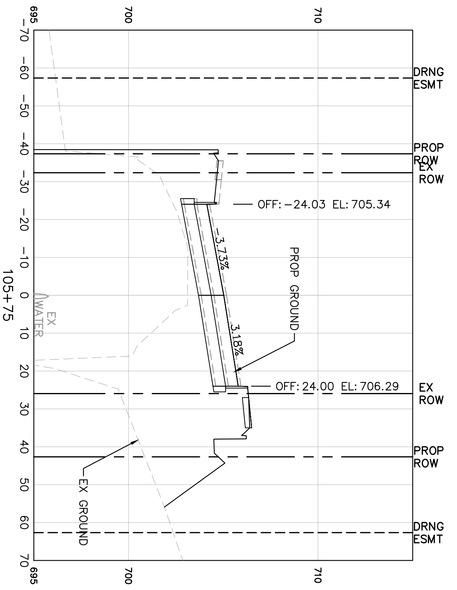
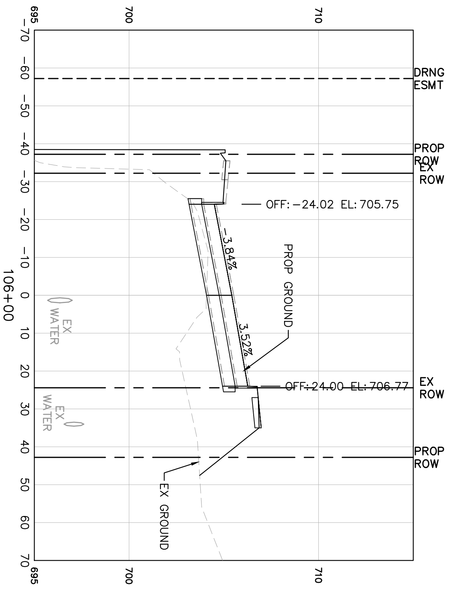


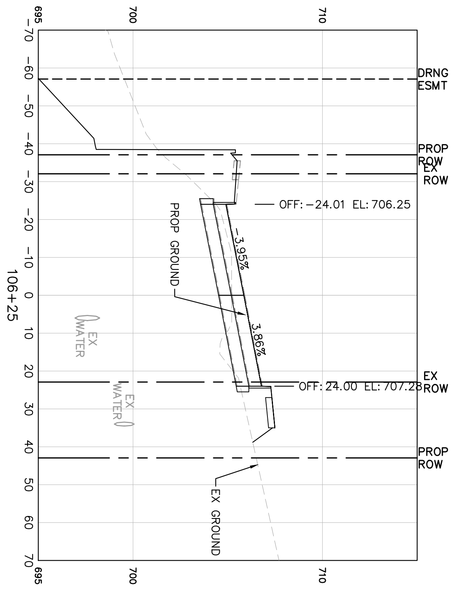


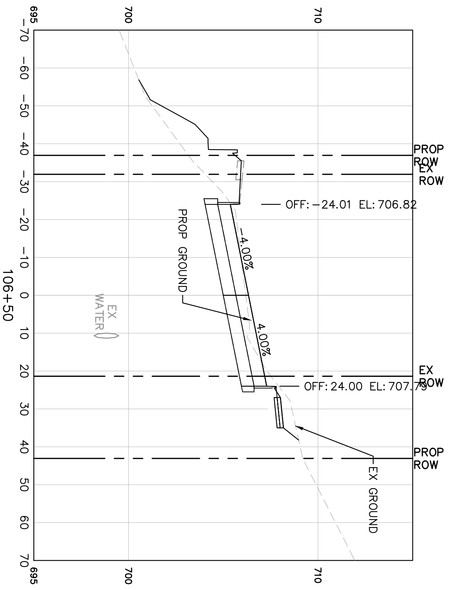


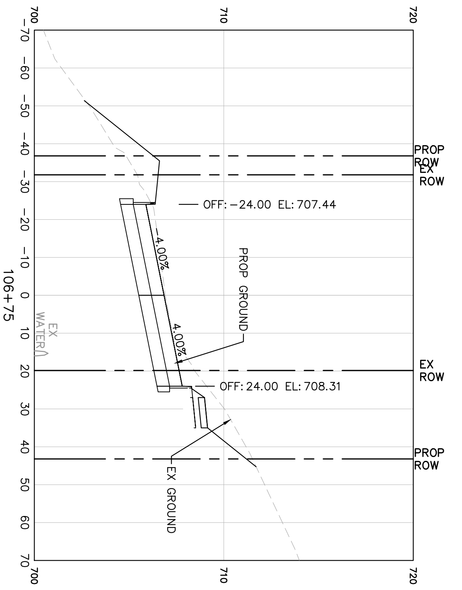












C1.93
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

CROSS SECTIONS - STA 104+75 TO STA 106+75

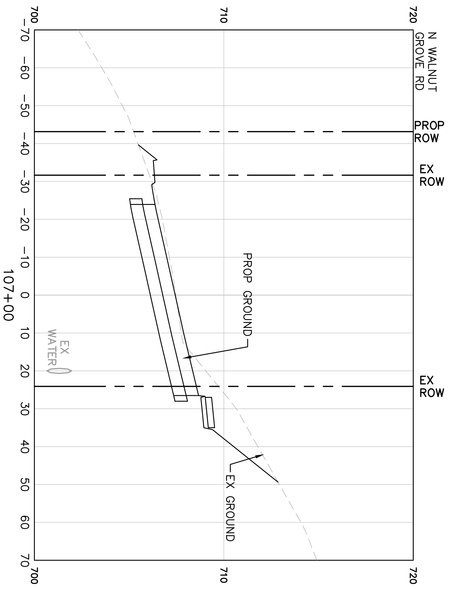
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

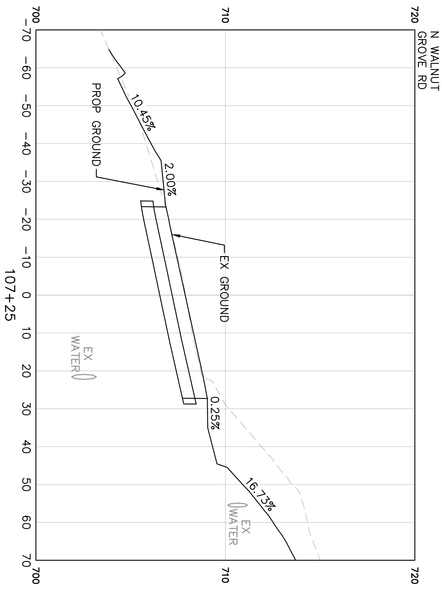
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

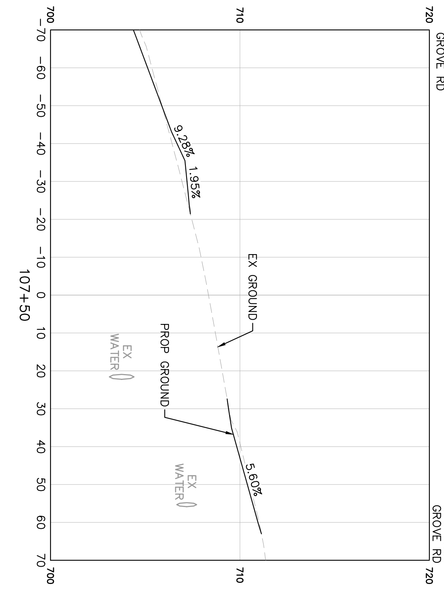
Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

2026-08-21 11:22:18, Del Rosso, Austin
2026-08-21 10:56:14 (CROSS SECTIONS - STA 107+00 TO STA 109+00)
Plotted, By:
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\design\ocorridor_sta 72+00 to end.dwg
Filename:







DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

C1.94
SHEET NUMBER

CROSS SECTIONS - STA 107+00 TO STA 109+00

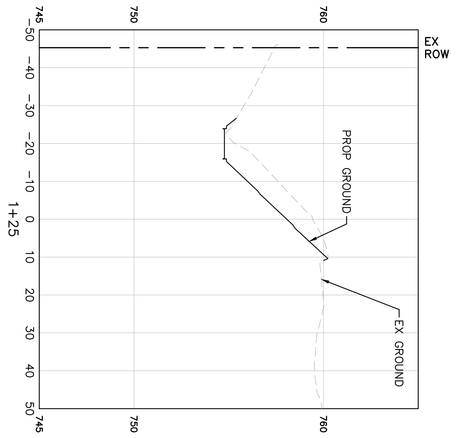
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

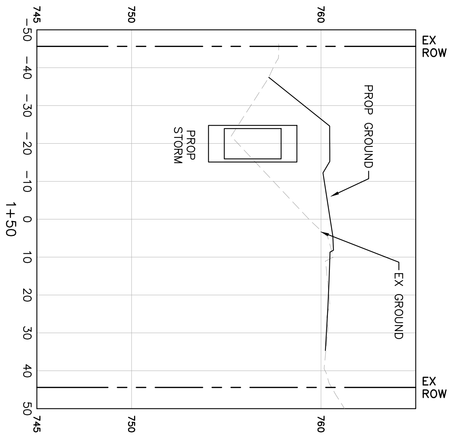
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

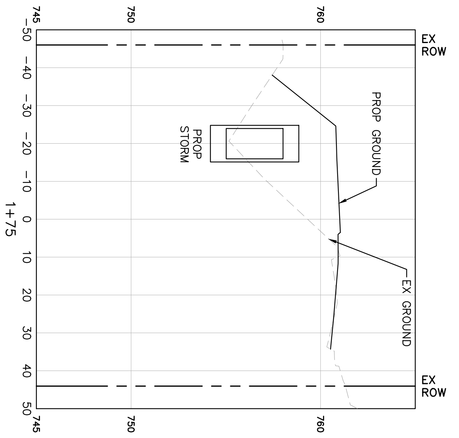
Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

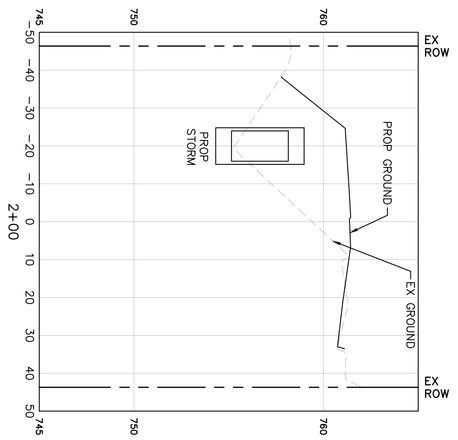
No.	Revision	By	Date

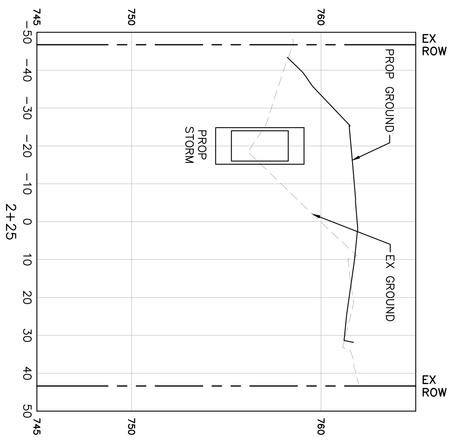
2026-08-21 11:22:44, Del Rosso, Austin
2026-08-21 09:53:39 (ONWARD ROAD CROSS SECTIONS - BEGIN TO STA 4+00)
Plotted, By:
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\design\ocorridor_onward.dwg
Filename:

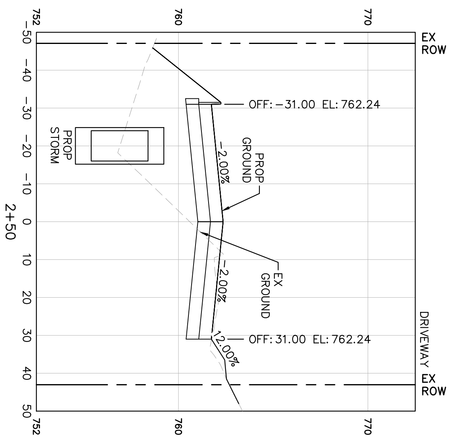


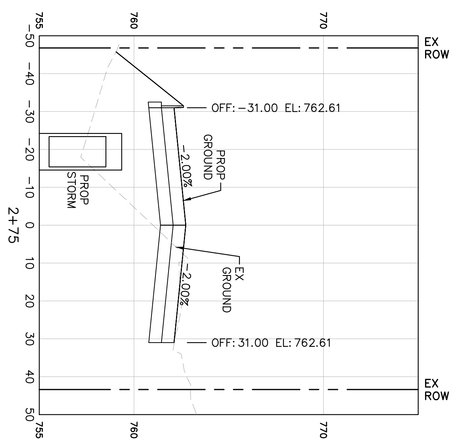


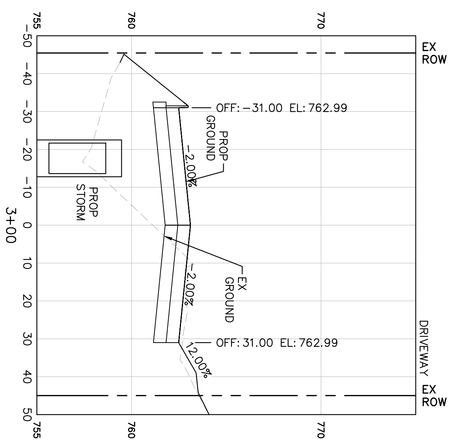


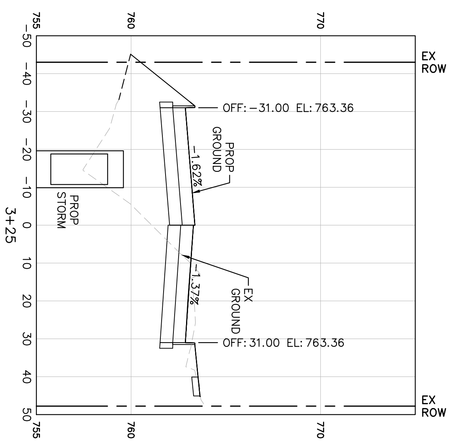


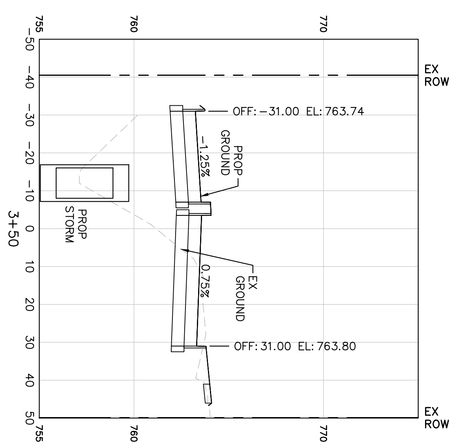


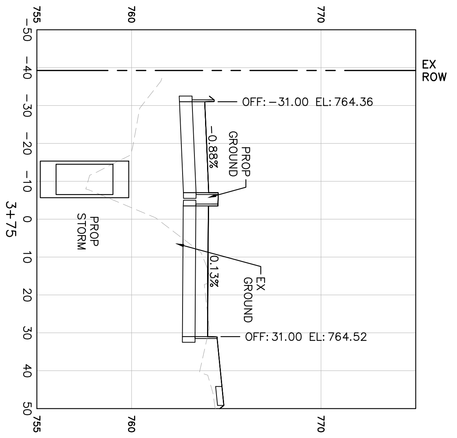


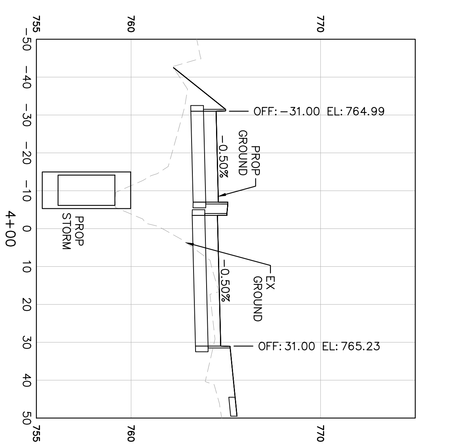












C1.95
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

ONWARD ROAD CROSS SECTIONS - BEGIN TO STA 4+00

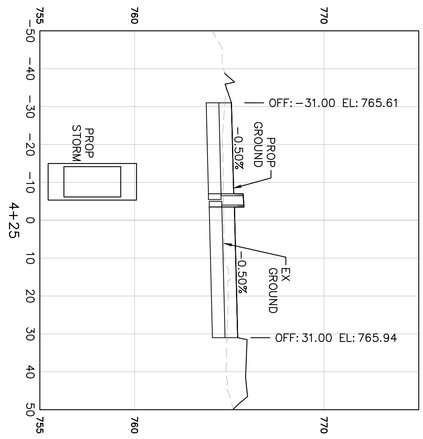
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

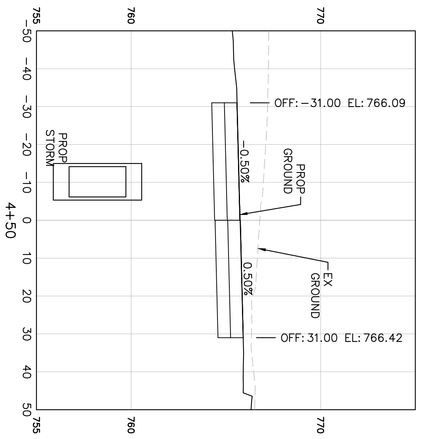
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

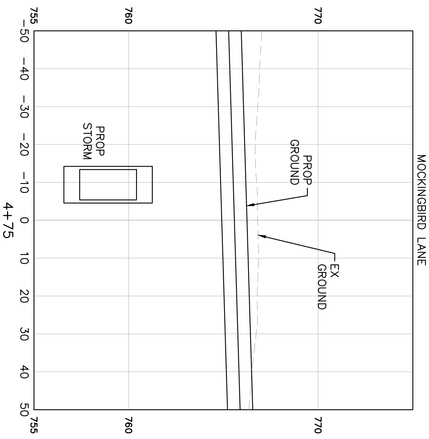
Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

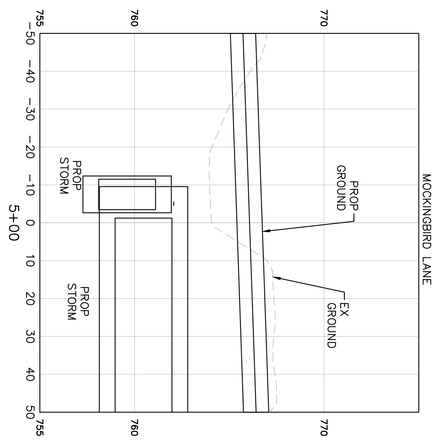
No.	Revision	By	Date

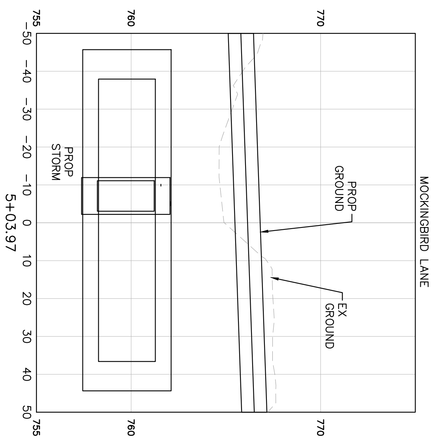
2026-08-21 11:22:48, Del Rosso, Austin
2026-08-21 09:53:39 (ONWARD ROAD CROSS SECTIONS - STA 4+25 TO STA 6+25)
Plotted, By:
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\design\ocorridor_onward.dwg
Filename:

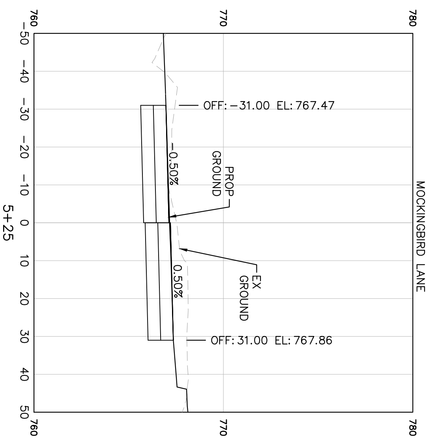


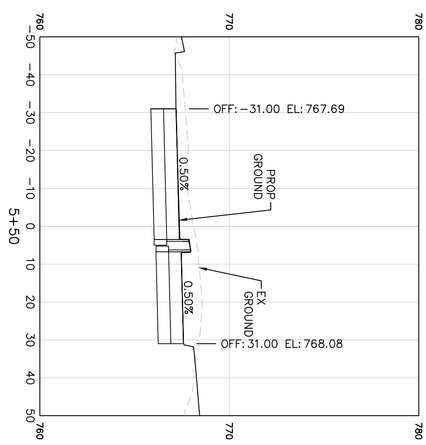


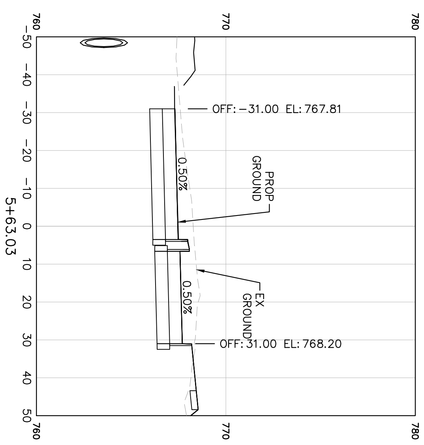


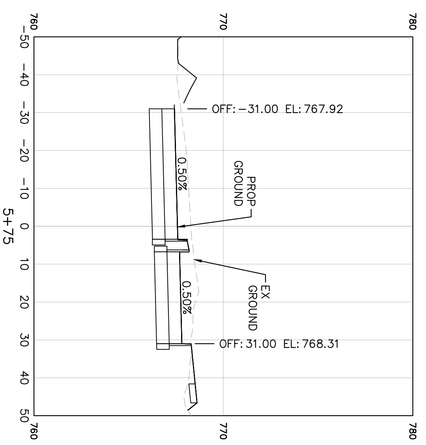


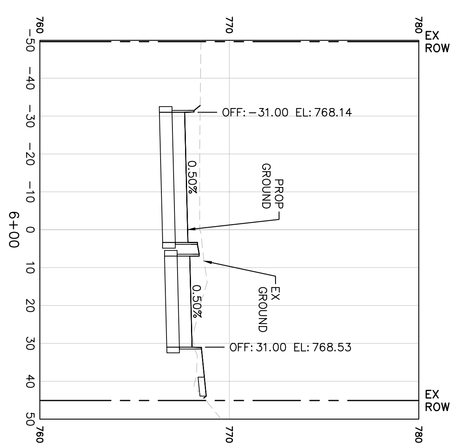


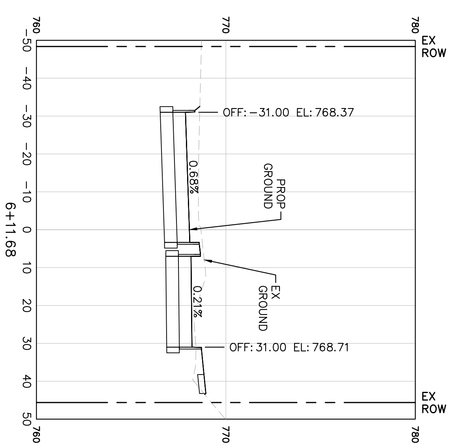


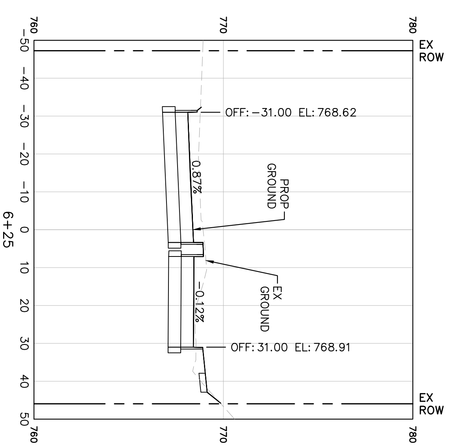












C1.96
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

ONWARD ROAD CROSS SECTIONS - STA 4+25 TO STA 6+25

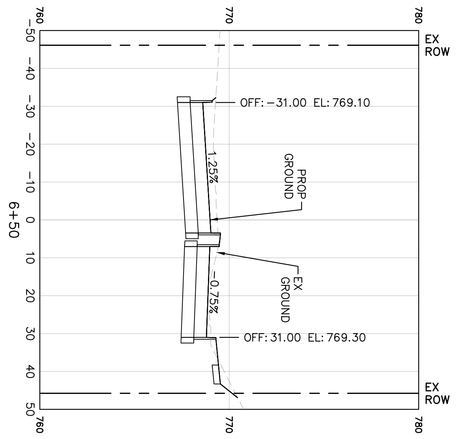
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

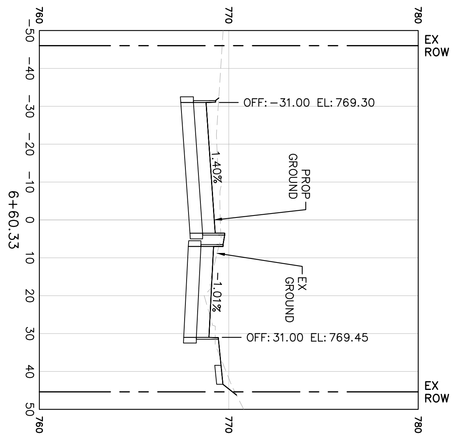
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

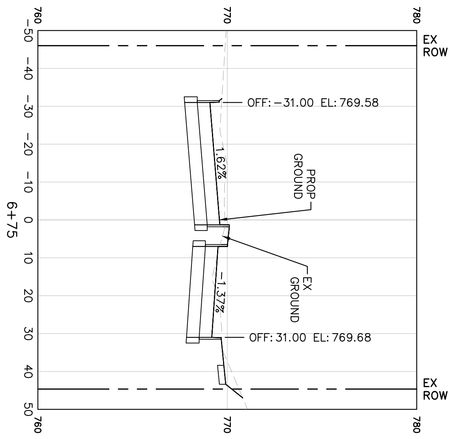
Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

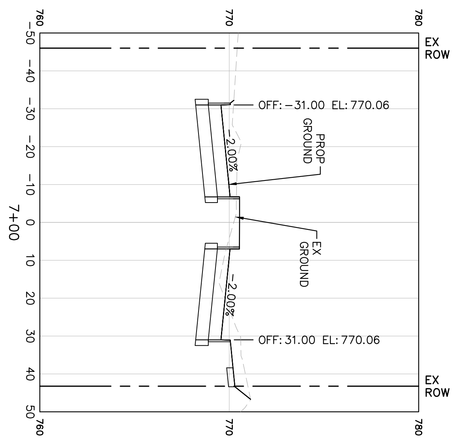
No.	Revision	By	Date

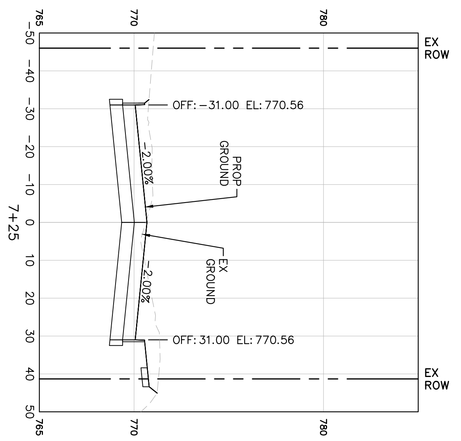
2026-08-21 11:22:53, Del Rosso, Austin
2026-08-21 09:53:39 (ONWARD ROAD CROSS SECTIONS - STA 6+50 TO STA 9+00)
Plotted, By:
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\design\ocorridor_onward.dwg
Filename:

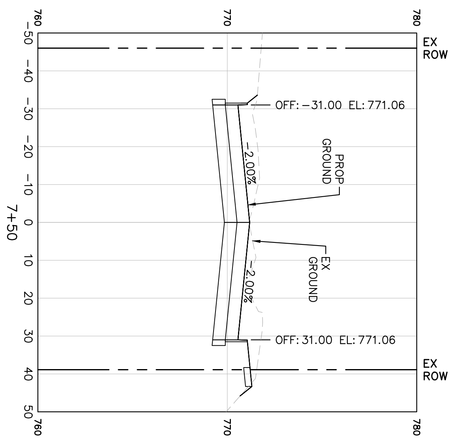


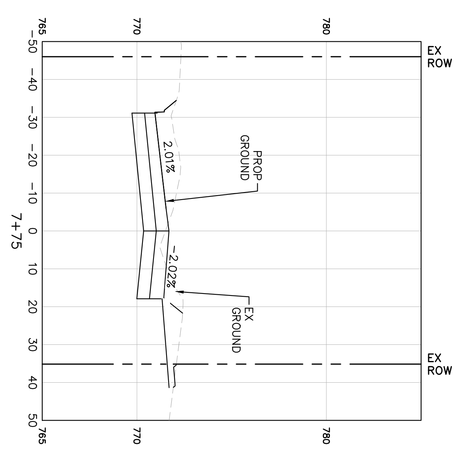


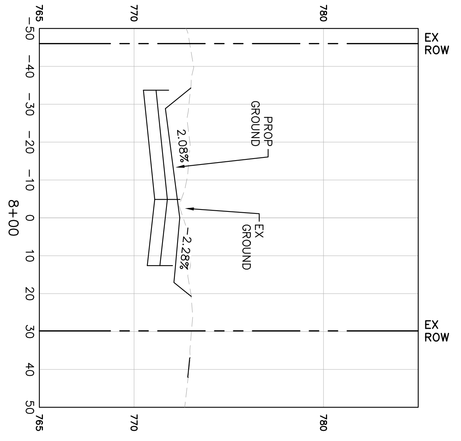


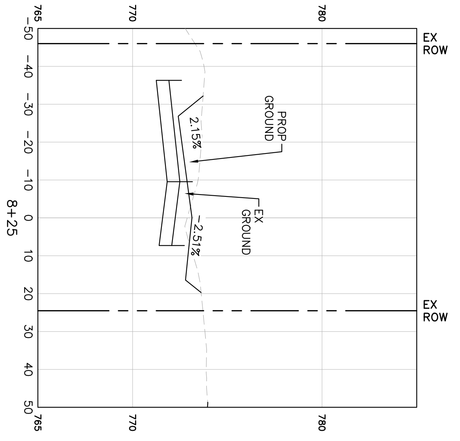


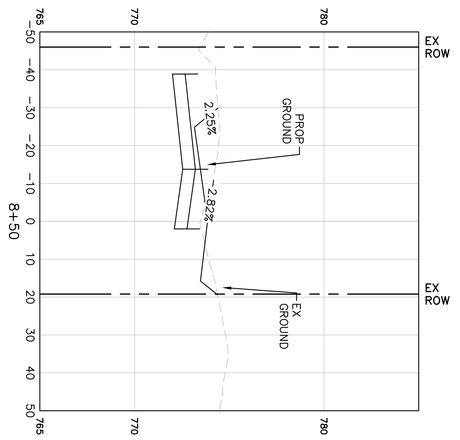


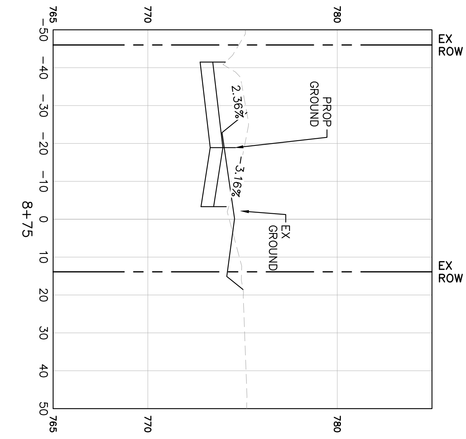


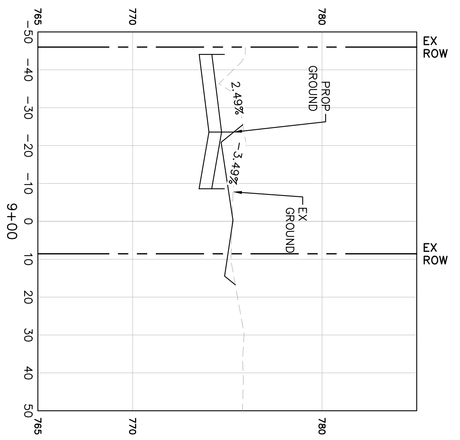












C1.97
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

ONWARD ROAD CROSS SECTIONS - STA 6+50 TO STA 9+00

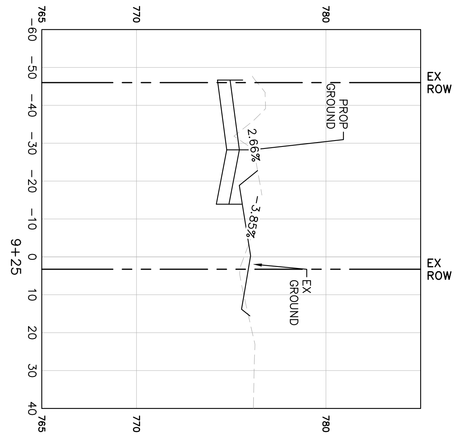
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

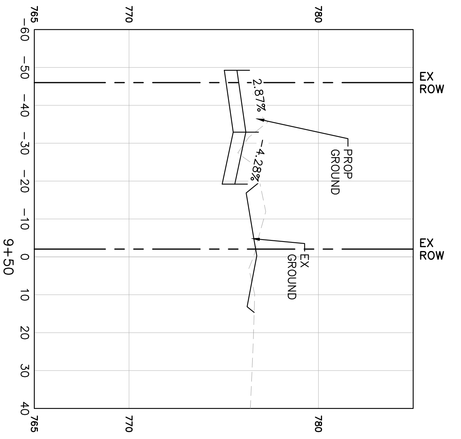
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

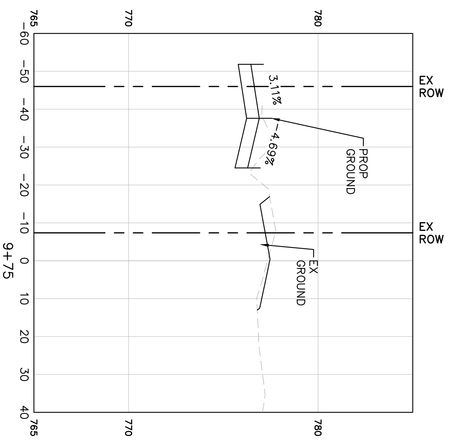
Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

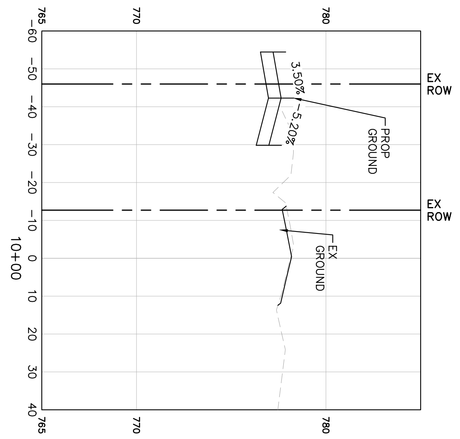
No.	Revision	By	Date

2026-08-21 11:22:56, Del Rosso, Austin
2026-08-21 09:53:39 (ONWARD ROAD CROSS SECTIONS -
Plotted, By: STA 9+25 TO END)
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird
Filename: lane\cadd\design\ocorridor_onward.dwg









C1.98
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

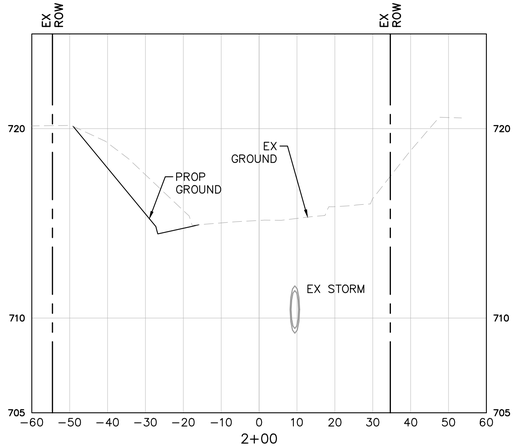
ONWARD ROAD CROSS SECTIONS - STA 9+25 TO END

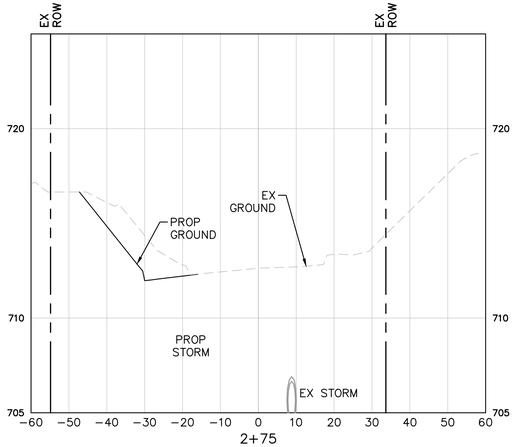
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

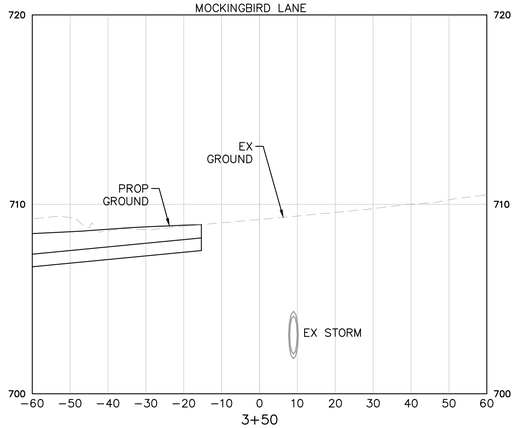
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

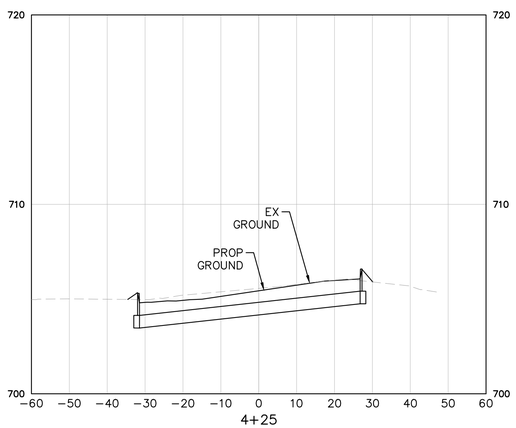
Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

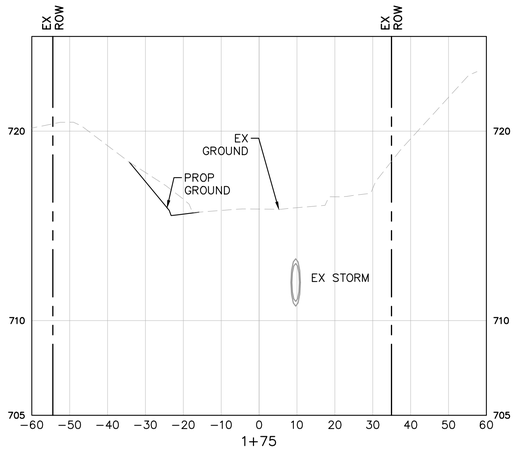
No.	Revision	By	Date

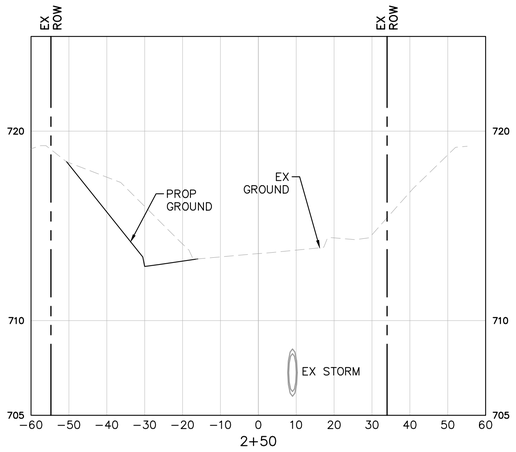


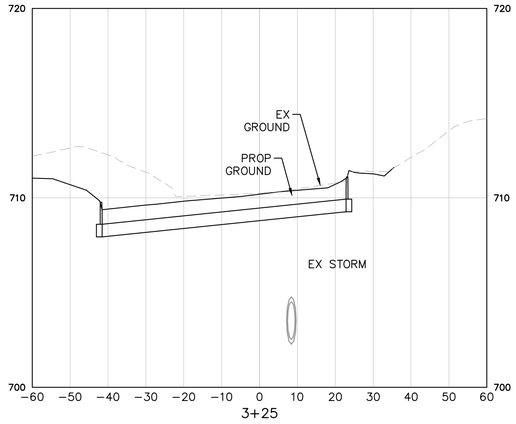


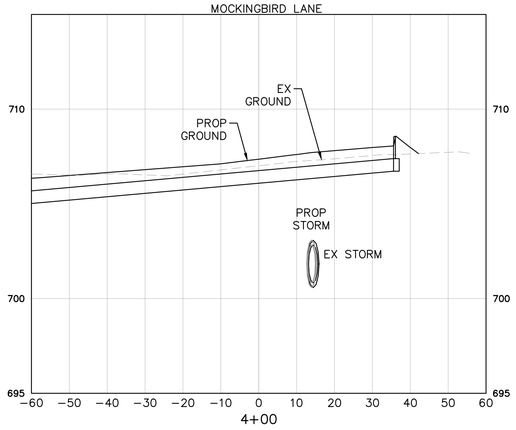


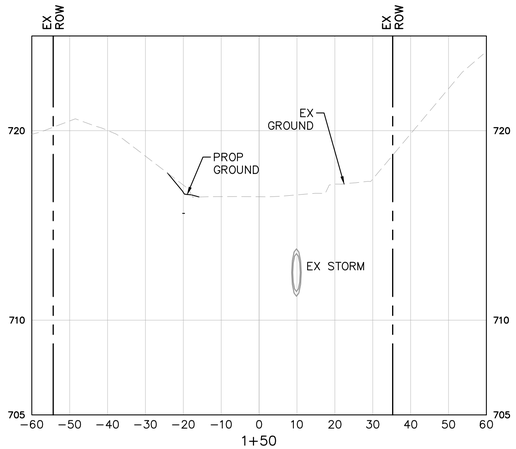


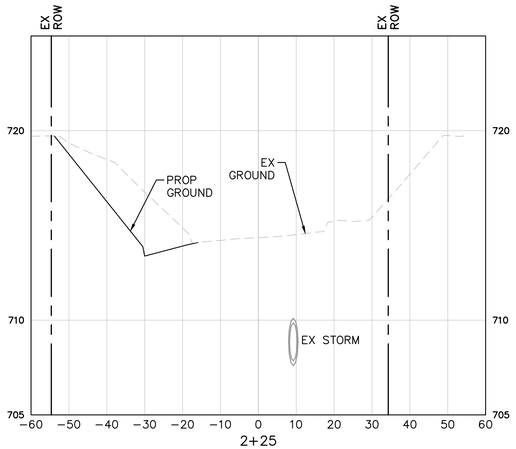


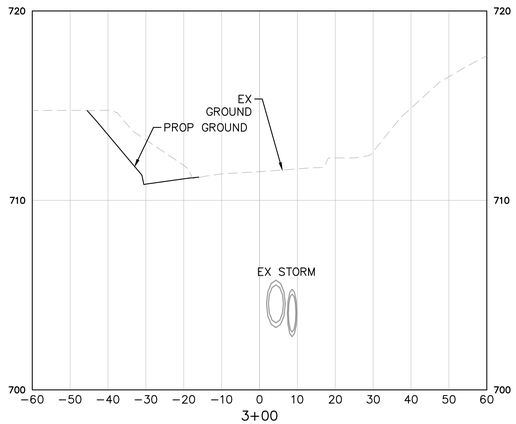


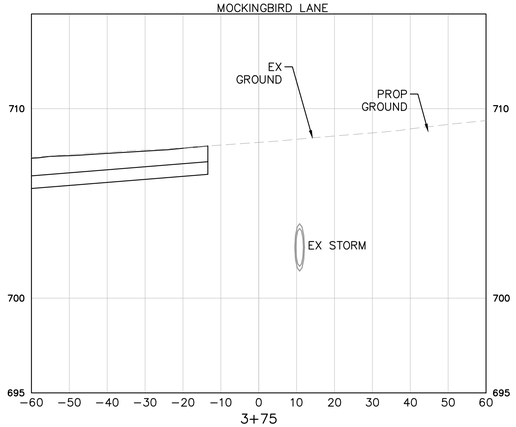












Plotted, By: 2026-08-21 11:23:01, Del Rosso, Austin
Last Saved: 2026-08-21 09:53:39 (WALNUT GROVE ROAD CROSS SECTIONS – BEGIN TO STA 4+75)
k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\design\ccorridor_onward.dwg
Filename:

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL ENGINEER
8/21/2026

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

WALNUT GROVE ROAD
CROSS SECTIONS -
BEGIN TO STA 4+25

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C1.99

2026-08-21 11:23:05, Del Rosso, Austin
2026-08-21 09:53:39 (WALNUT GROVE ROAD CROSS
Plotted, By: SECTIONS - STA 5+00 TO STA 7+75)
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird
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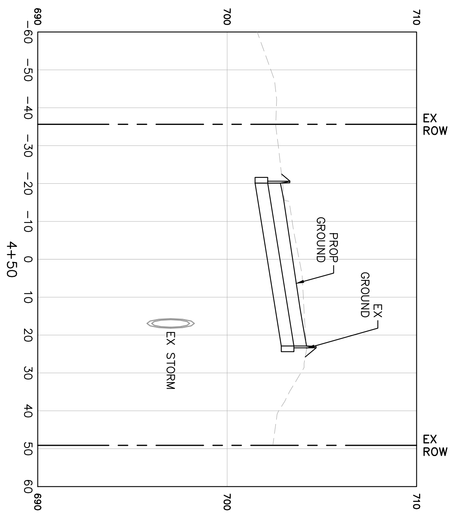

C1.100
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

WALNUT GROVE ROAD
CROSS SECTIONS - STA
4+50 TO END

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
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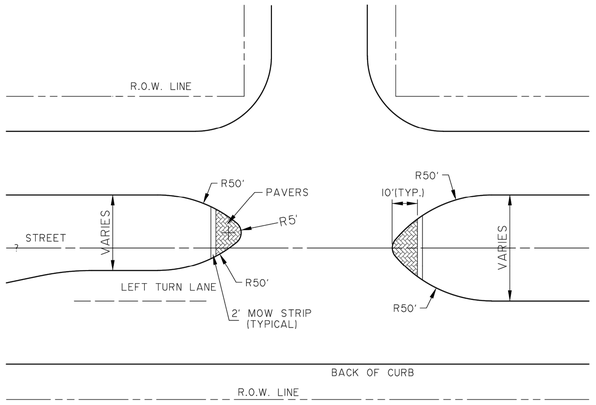
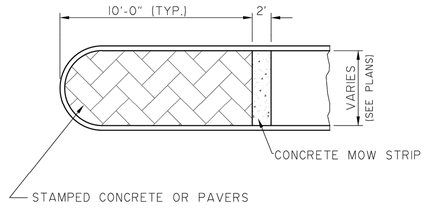


1 BULLET NOSE DETAIL

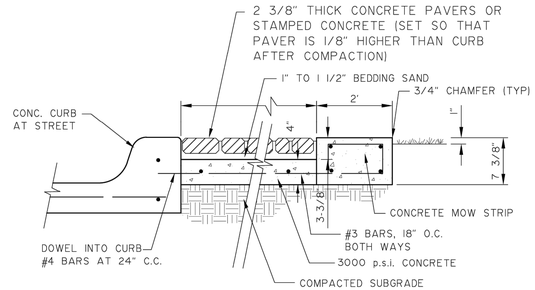
N.T.S.



NOTE:
IF MEDIAN IS 6' WIDE OR LESS, PATTERN SHALL EXTEND TO MEDIAN TRANSITION FROM NOSE. FOR MEDIANS WIDER THEN 6', PATTERN SHALL EXTEND 10' FROM NOSE. ALL DISTANCES ARE MINIMUMS. COLOR TO BE DECIDED BY CITY.

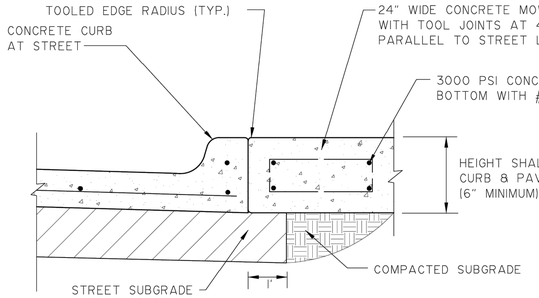
2 TYPICAL MEDIAN NOSE

N.T.S.



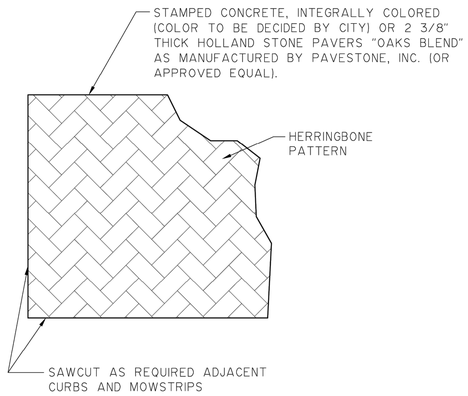
CONCRETE PAVER DETAIL AT MEDIAN NOSE

N.T.S.



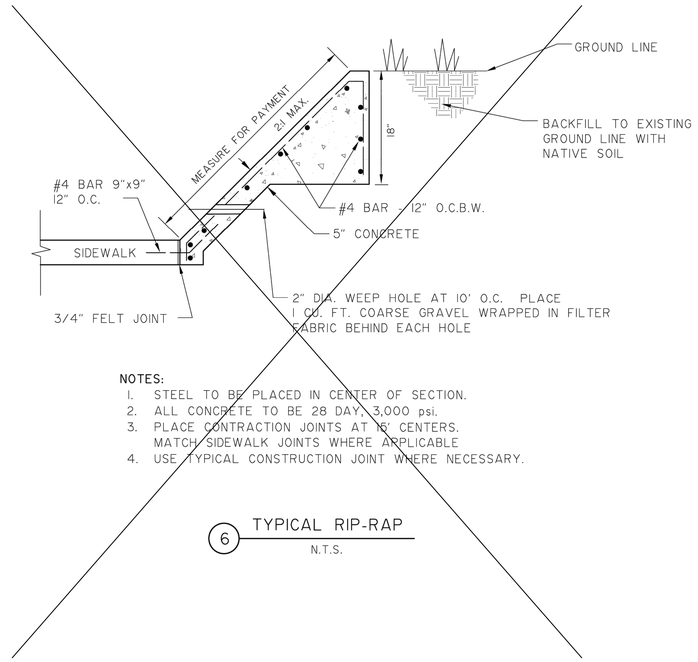
4 24" CONCRETE MOWSTRIP AT CURB

N.T.S.



5 CONCRETE PATTERN (STAMPED OR PAVERS)

N.T.S.



NOTES:
1. STEEL TO BE PLACED IN CENTER OF SECTION.
2. ALL CONCRETE TO BE 28 DAY, 3,000 psi.
3. PLACE CONTRACTION JOINTS AT 15' CENTERS. MATCH SIDEWALK JOINTS WHERE APPLICABLE
4. USE TYPICAL CONSTRUCTION JOINT WHERE NECESSARY.

6 TYPICAL RIP-RAP

N.T.S.

8 GENERAL NOTES

1. ALL JOINTS SHALL BE EPOXY SEALED. COLOR TO MATCH PAVEMENT. (NO BLACK)

7 INSTALLATION OF PAVERS

THE INTERLOCKING CONCRETE PAVERS SHALL BE LAID IN A HERRINGBONE PATTERN AND SHALL BE LAID IN SUCH A MANNER THAT THE SPECIFIED PATTERN SHALL BE MAINTAINED THROUGHOUT AND JOINTS BETWEEN PAVERS SHALL NOT EXCEED ONE-EIGHTH INCH (1/8").
STRING LINES SHALL BE USED TO KEEP ALL PATTERN LINES STRAIGHT AND TRUE.

1. GAPS WHICH OCCUR AT THE EDGE OF THE PAVER AREA SHALL BE FILLED WITH A STANDARD EDGE PAVER OR WITH PAVERS CUT TO FIT. CUTTING SHALL BE ACCOMPLISHED TO PRODUCE A NEAT, CLEAN EDGE WHERE PAVERS ABUT CONCRETE PAVING, DIVIDERS OR CURBS.
2. A MASONRY SAW SHALL BE USED FOR CUTTING ALL PAVERS UNLESS OTHERWISE APPROVED BY THE CITY ENGINEER. NO CUT SHALL BE MADE WHERE LESS THAN ONE-THIRD (1/3) OF THE ORIGINAL PAVER DIMENSION IS LEFT.
3. PAVERS SHALL BE VIBRATED INTO THE SAND BEDDING OR LAYING COURSE USING A VIBRATOR CAPABLE OF 3,000 TO 5,000 psi COMPACTION FORCE WITH THE SURFACE OF THE PAVERS CLEAN AND THE JOINTS OPEN. THE VIBRATING PROCESS SHALL BE REPEATED AS NECESSARY TO BRING PAVERS TO THEIR FINAL LEVEL AND TO COMPACT THE UNDERLYING BEDDING COURSE AND FORCE SAND UP INTO THE JOINTS.
4. FOLLOWING VIBRATION, CLEAN SHARP SAND, WITH 100% PASSING THE No. 4 SIEVE AND A MAXIMUM OF 5-10% PASSING THE No. 200 SIEVE, SHALL BE APPLIED OVER THE PAVER SURFACE, ALLOWED TO DRY AND VIBRATED INTO THE JOINTS WITH ADDITIONAL VIBRATOR PASSES AND BRUSHING NECESSARY TO COMPLETELY FILL THE JOINTS.
5. ALL SURPLUS MATERIAL SHALL THEN BE SWEPT CLEAN FROM THE SURFACE OF THE PAVERS AND ALL SURPLUS CONSTRUCTION MATERIAL SHALL BE REMOVED FROM THE SITE. CARE SHOULD BE EXERCISED SO THAT OTHER CONSTRUCTION ACTIVITIES WITHIN THE AREA SHALL NOT DAMAGE THE COMPLETED PAVER INSTALLATION. ANY PAVERS DAMAGED SHALL BE REMOVED AND REPLACED BY THE CONTRACTOR AT THEIR EXPENSE.
6. NEW URBANIST DESIGNS WILL BE REVIEWED ON A CASE BY CASE BASIS AND SUBJECT TO CITY ENGINEER APPROVAL.

NOTE: THIS IS SHT. SD-4 OF THE STANDARD CONSTRUCTION DETAILS, ORDINANCE NO. 2013-51 EFFECTIVE DATE: JANUARY 1, 2014

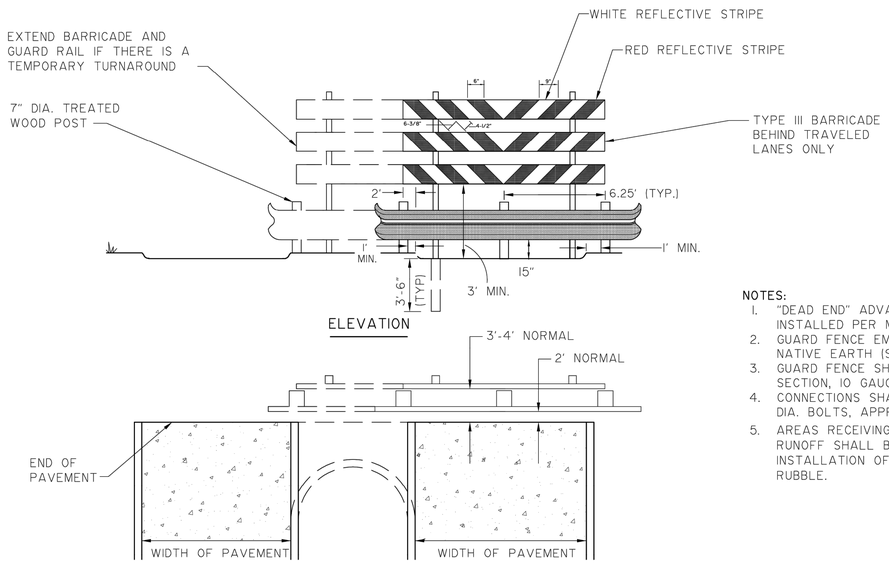
CITY OF MIDLOTHIAN, TEXAS
DEPARTMENT OF ENGINEERING, UTILITIES, AND PUBLIC WORKS

STANDARD CONSTRUCTION DETAILS
PAVING

MEDIAN PAVING & RIP-RAP DETAILS

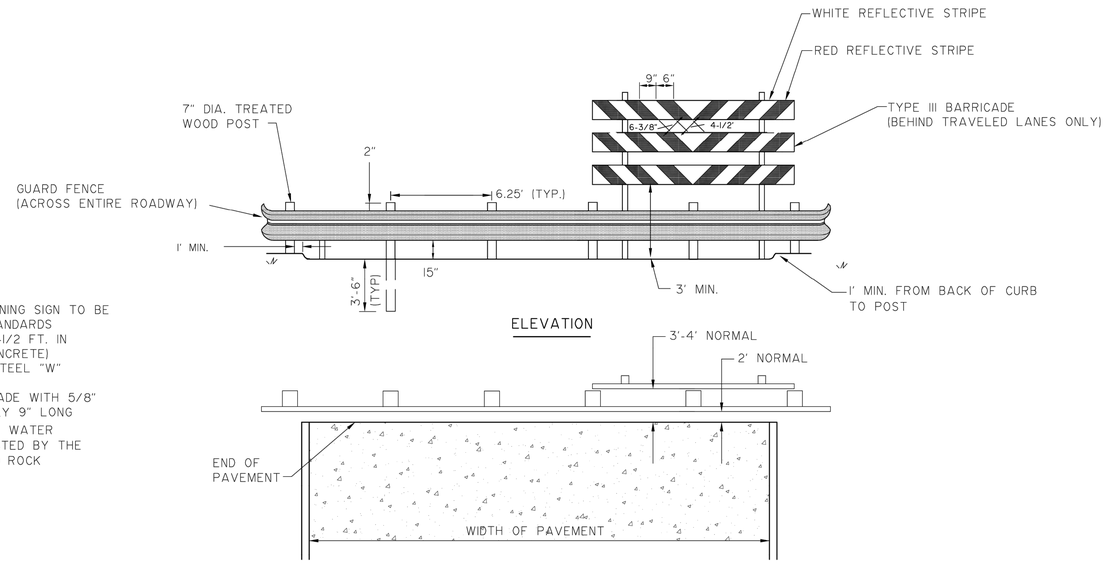
NO:	REVISION:	DATE:	SHEET:
			C1.101

Midlothian
DFW's Southern Star

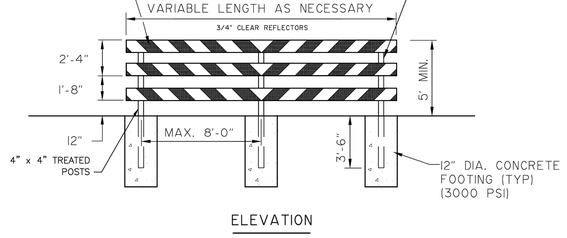


DEAD END BARRICADE STANDARD
DIVIDED ROADWAY (1)
N.T.S.

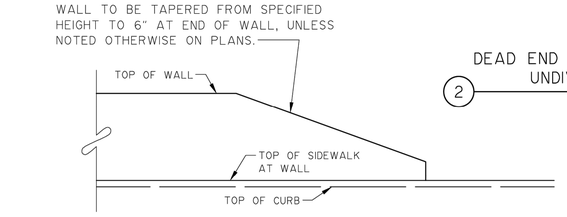
NOTES:
1. "DEAD END" ADVANCE WARNING SIGN TO BE INSTALLED PER MUTCD STANDARDS
2. GUARD FENCE EMBEDDED 3-1/2 FT. IN NATIVE EARTH (SET IN CONCRETE)
3. GUARD FENCE SHALL BE STEEL "W" SECTION, 10 GAUGE
4. CONNECTIONS SHALL BE MADE WITH 5/8" DIA. BOLTS, APPROXIMATELY 9" LONG
5. AREAS RECEIVING SURFACE WATER RUNOFF SHALL BE PROTECTED BY THE INSTALLATION OF GROUTED ROCK RUBBLE.



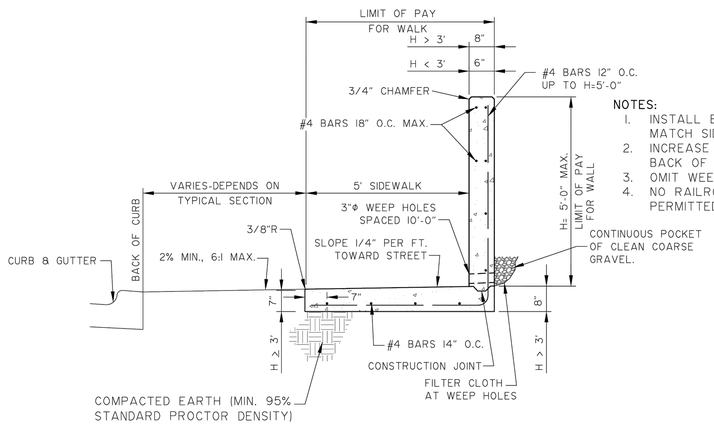
DEAD END BARRICADE STANDARD
UNDIVIDED ROADWAY (2)
N.T.S.



TYPE III BARRICADE (3)
N.T.S.



TYPICAL END TREATMENT FOR TYPE "A" RETAINING WALLS (4)
N.T.S



TYPE "A" RETAINING WALL (5)
N.T.S.

NOTES:
1. INSTALL EXPANSION AND CONTRACTION JOINTS TO MATCH SIDEWALK.
2. INCREASE SIDEWALK WIDTH TO 6' WHEN ADJACENT TO BACK OF CURB AND PROVIDE DOWELLED CONNECTION.
3. OMIT WEEP HOLES WHEN WALL HEIGHT IS 12" OR LESS.
4. NO RAILROAD TIE RETAINING WALLS OF ANY TYPE ARE PERMITTED.

NOTE: THIS IS SHT. SD-7 OF THE STANDARD CONSTRUCTION DETAILS, ORDINANCE NO. 2013-51 EFFECTIVE DATE: JANUARY 1, 2014

CITY OF MIDLOTHIAN, TEXAS
DEPARTMENT OF ENGINEERING, UTILITIES, AND PUBLIC WORKS

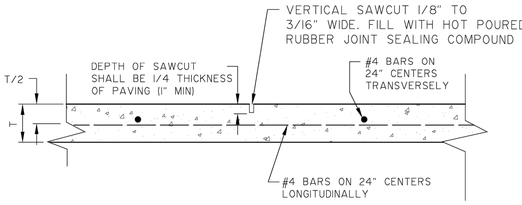
STANDARD CONSTRUCTION DETAILS PAVING

BARRICADE & RETAINING WALL DETAILS

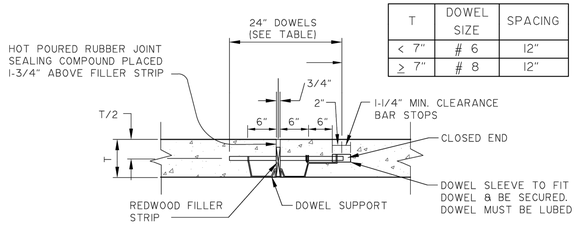
NO:	REVISION:	DATE:	SHEET:
			C1.102

Midlothian
DFW's Southern Star

NOTE:
LONGITUDINAL JOINT SHALL BE PLACED AS SHOWN. TRANSVERSE JOINTS SHALL BE PLACED AT 15' INTERVALS (MAXIMUM).



1 SAWED CONTRACTION JOINT
N.T.S.

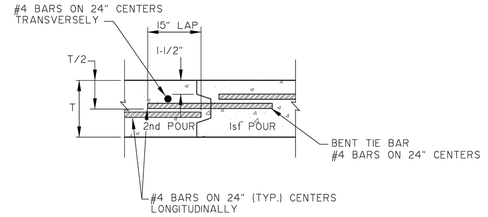


T	DOWEL SIZE	SPACING
< 7"	# 6	12"
≥ 7"	# 8	12"

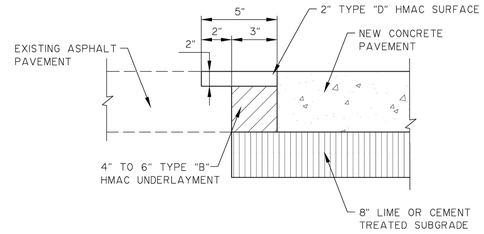
NOTES:
1. PAVEMENT STEEL IS NOT SHOWN FOR CLARITY AND SHALL STOP 3 INCHES FROM JOINT.
2. EXPANSION JOINTS SHALL BE PLACED AT ALL INTERSECTION CURB RETURN POINTS AND AT THE TERMINATION OF EACH DAY'S POUR. MAXIMUM SPACING SHALL BE 600 FEET.

2 TRANSVERSE EXPANSION JOINT
N.T.S.

NOTES:
1. STEEL FROM PREVIOUS PLACEMENT OF CONCRETE MAY BE SUBSTITUTED IN PLACE OF TIE BAR.
2. KEYWAY IS OPTIONAL AND MAY BE DELETED.

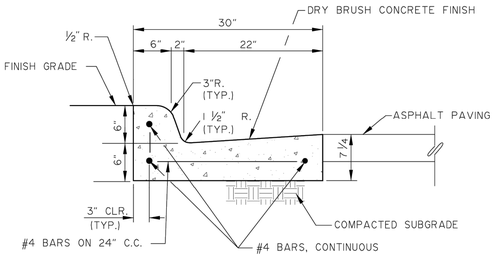


3 CONSTRUCTION JOINT
N.T.S.

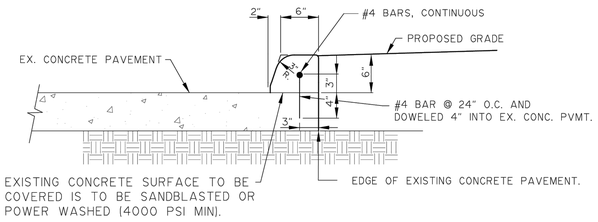


SECTION B-B
N.T.S.

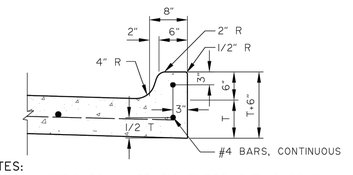
NOTE:
ASPHALT PAVEMENT SHALL BE EQUAL IN DEPTH TO PROPOSED CONCRETE OR 6", WHICHEVER IS GREATER. THE TOP 2" SHALL BE TYPE "D". SUBGRADE SHALL EXTEND TO EXISTING ASPHALT PAVEMENT.



4 30'' CONCRETE CURB & GUTTER
N.T.S.

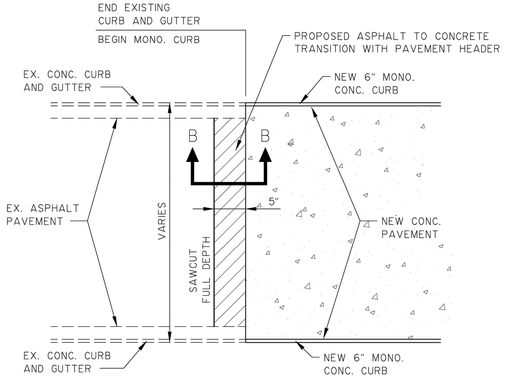


5 6" DOWELED IN CURB
N.T.S.

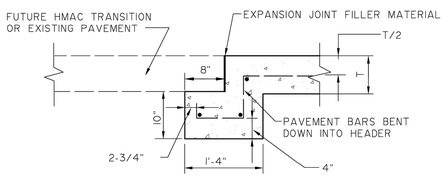


NOTES:
1. AN APPROVED WHITE PIGMENTED CURING COMPOUND SHALL BE APPLIED TO THE SURFACE OF THE CURB AND GUTTER AS SOON AS IT HAS BEEN PLACED AND FINISHED.
2. ALL REINFORCING STEEL SHALL BE #4 BARS.

6 MONOLITHIC CONCRETE CURB
N.T.S.



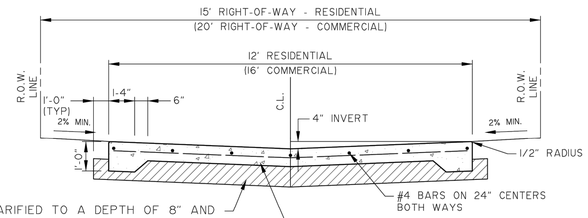
7 ASPHALT TO CONCRETE TRANSITION
N.T.S.



NOTES:
1. PAVEMENT AND HEADER TO BE POURED MONOLITHICALLY.
2. THIS IS SUBSIDIARY TO REINFORCED CONCRETE PAVEMENT.

8 PAVEMENT HEADER
N.T.S.

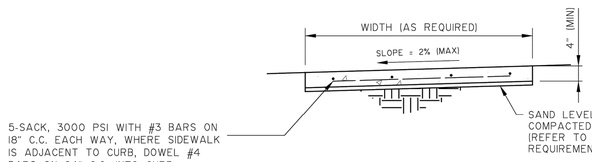
NOTES:
1. MINIMUM RADIUS AT ALLEY INTERSECTIONS OR 90° BENDS IS 40'.
2. WIDEN ALLEYS AT STREET INTERSECTION TO 20' RESIDENTIAL AND 24' COMMERCIAL.
3. SPACING AND CONSTRUCTION OF JOINTS SHALL CONFORM TO STREET PAVEMENT DETAILS.



SUBGRADE SHALL BE SCARIFIED TO A DEPTH OF 8" AND RECOMPACTED IN COMPLIANCE WITH TEX 113-E. SUBGRADE SHALL BE STABILIZED w/48 LBS./S.Y. (8% BY WEIGHT) OF HYDRATED LIME. LIMIT OF SUBGRADE SHALL EXTEND ONE FOOT BEYOND PAVING. RATE OF LIME MAY BE REDUCED OR ELIMINATED ONLY WITH APPROVAL OF CITY ENGINEER BASED ON APPROPRIATE TESTING RESULTS.

8" PORTLAND CEMENT CONCRETE PAVEMENT (MIN. CEMENT CONTENT OF 5-1/2 SACKS PER C.Y., AND A MIN. COMPRESSIVE STRENGTH OF 3,600 psi @ 28 DAYS) (TYP.)

9 STANDARD ALLEY SECTION
N.T.S.



EXPANSION JOINTS SHALL BE FORMED AND PLACED IN ACCORDANCE WITH NCTCOG STANDARDS, INCLUDING 40-FOOT INTERVALS, AT ALL INTERSECTIONS, CURBS, DRIVEWAYS, OTHER SIDEWALKS AND ADJACENT TO EXISTING CONCRETE WORK.

10 CONCRETE SIDEWALK
N.T.S.

NOTE: THIS IS SHT. SD-2 OF THE STANDARD CONSTRUCTION DETAILS, ORDINANCE NO. 2013-51 EFFECTIVE DATE: JANUARY 1, 2014

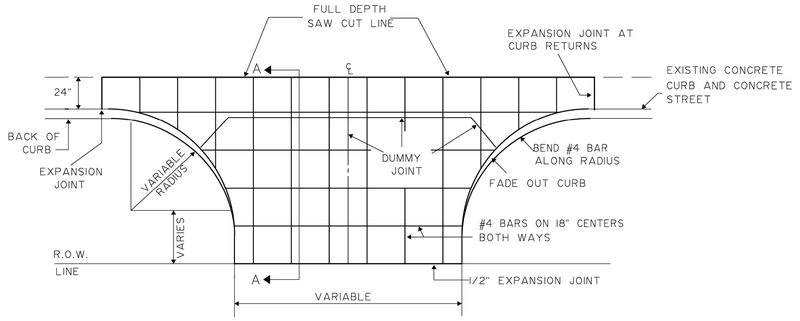
CITY OF MIDLOTHIAN, TEXAS
DEPARTMENT OF ENGINEERING, UTILITIES, AND PUBLIC WORKS

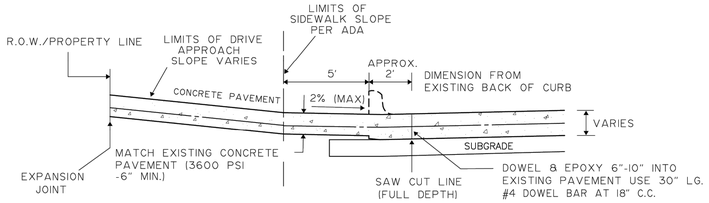
STANDARD CONSTRUCTION DETAILS PAVING

PAVEMENT JOINTS, ALLEY, CURB & SIDEWALK DETAILS

NO:	REVISION:	DATE:	SHEET:
			C1.103

Midlothian
DFW's Southern Star

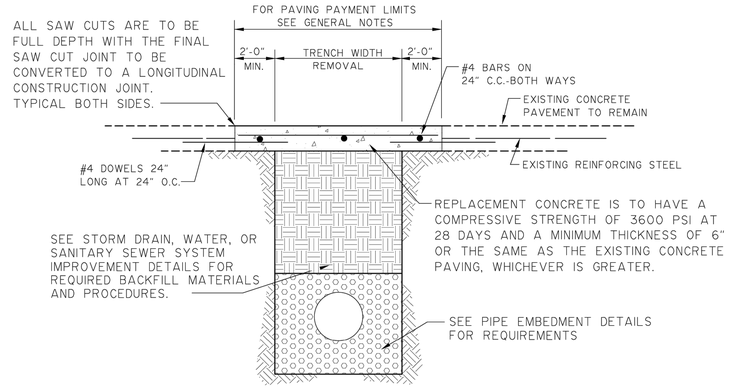




SECTION A-A

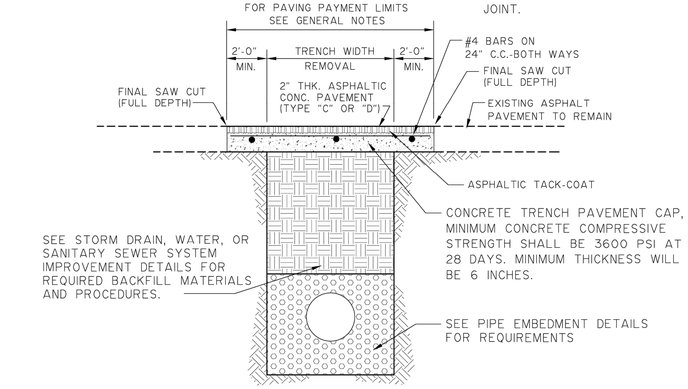
NOTES:
1. CONNECTION TO TXDOT FACILITIES WILL REQUIRE COORDINATION WITH TXDOT AND PERMIT FROM TXDOT.
2. THE SLOPE OF THE DRIVE WHERE SIDEWALKS CROSS SHALL BE A MAXIMUM 2% AND CURB SHALL BE CONSTRUCTED PER THE ACCESS RAMP DETAILS.
3. REMOVE ANY EXISTING SIDEWALK AT NEAREST JOINT.
4. RESIDENTIAL DRIVES TO BE 10' RADIUS AND 12' WIDE MINIMUM.
5. COMMERCIAL DRIVES TO BE 20' RADIUS AND 24' WIDE MINIMUM.
6. SIDEWALKS ADJACENT TO DRIVEWAYS SHALL BE IN ACCORDANCE WITH ADA RULES AND REGULATIONS.

1 TYPICAL DRIVE APPROACH @ CONCRETE STREET
N.T.S.



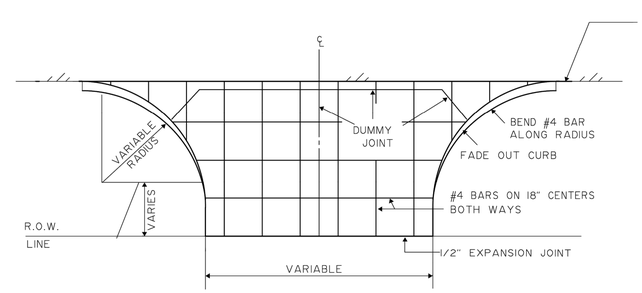
REINFORCED CONCRETE PAVEMENT

NOTES:
1. PAVEMENT REPLACEMENT WIDTH TO BE A MAXIMUM OF TRENCH WIDTH PLUS 4'-0".
2. IF THE TRENCH WIDTH IS GREATER THAN THE OUTSIDE DIAMETER OF THE PIPE PLUS 16 INCHES, THE EXCESS REPLACEMENT WIDTH WILL BE AT THE CONTRACTORS EXPENSE.
3. BEFORE A CONTRACTOR IS TO BE ALLOWED TO BEGIN WORK IN ANY RIGHT-OF-WAY, STREET, AND/OR EASEMENT WITHIN THE CITY OF MIDLOTHIAN, THEY MUST OBTAIN A CONSTRUCTION PERMIT FROM THE CITY OF MIDLOTHIAN PUBLIC WORKS DEPARTMENT.
4. IF SAWED REMOVAL LINE WILL BE WITHIN 3' OF AN EXISTING JOINT, REMOVE AND REPLACE TO JOINT.



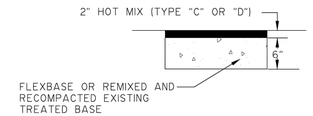
FLEXIBLE BASE AND ASPHALTIC CONCRETE SURFACE

2 PAVEMENT REPAIR FOR UTILITY INSTALLATION
N.T.S.

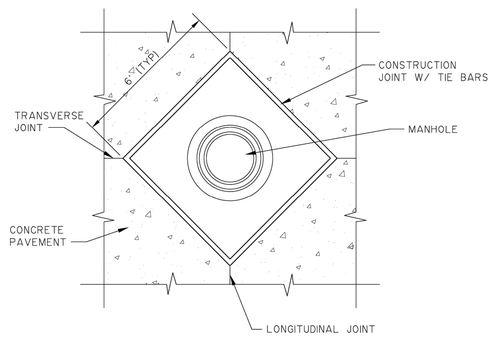


REFER TO NOTES FOR APPROACH @ CONCRETE STREET. (DETAIL 1 ON THIS SHEET)

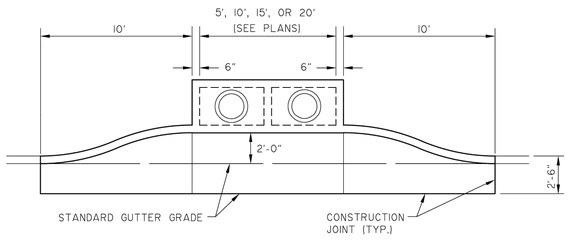
3 TYPICAL DRIVE APPROACH @ ASPHALT STREET
N.T.S.



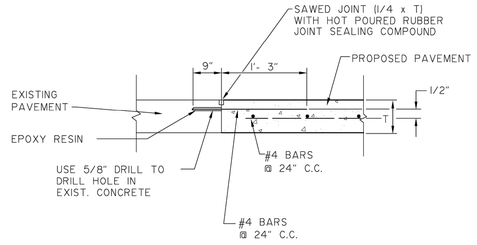
4 TEMPORARY HMAC PAVING
N.T.S.



5 MANHOLE/JUNCTION BOX BLOCK OUT
N.T.S.



6 RECESSED INLET BLOCK OUT
N.T.S.



7 DOWEL INTO EXISTING CONCRETE PAVEMENT
N.T.S.

NOTE: THIS IS SHT. SD-3 OF THE STANDARD CONSTRUCTION DETAILS, ORDINANCE NO. 2013-51 EFFECTIVE DATE: JANUARY 1, 2014

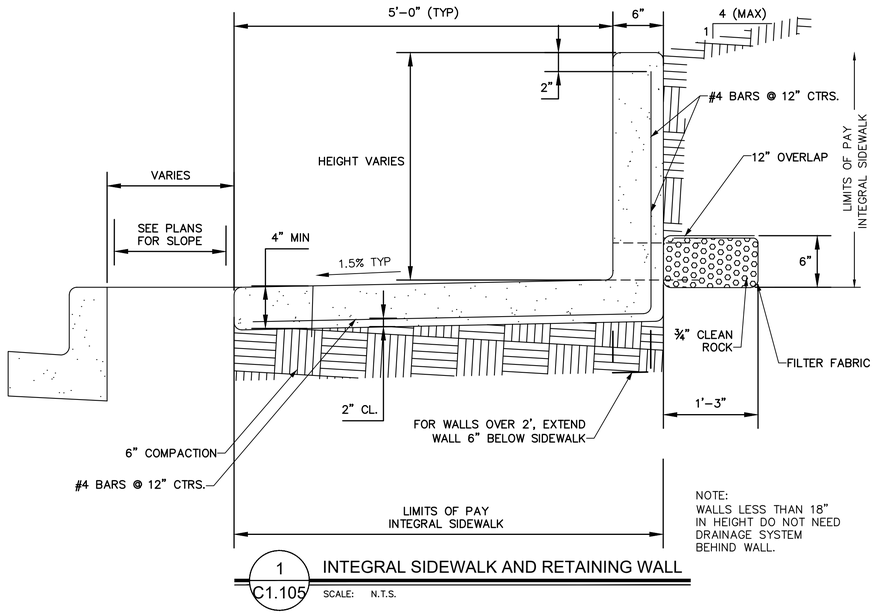
CITY OF MIDLOTHIAN, TEXAS
DEPARTMENT OF ENGINEERING,
UTILITIES, AND PUBLIC WORKS

STANDARD CONSTRUCTION DETAILS PAVING

HMAC, BLOCK OUT, DOWEL, PVMT. REPAIR, & DRIVEWAY DETAILS

NO:	REVISION:	DATE:	SHEET:
			SD-4

Midlothian DFW's Southern Star



1 C1.105 INTEGRAL SIDEWALK AND RETAINING WALL

SCALE: N.T.S.

Plotted, By: 2026-08-21 13:19:37, Del Rosso, Austin
Last Saved: 2026-08-04 10:24:40 (PAVING DETAILS - (SHEET 1 OF 4))
k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\paving_details.dwg
Filename:

Kimley»Horn

801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL
ENGINEER
8/21/2026

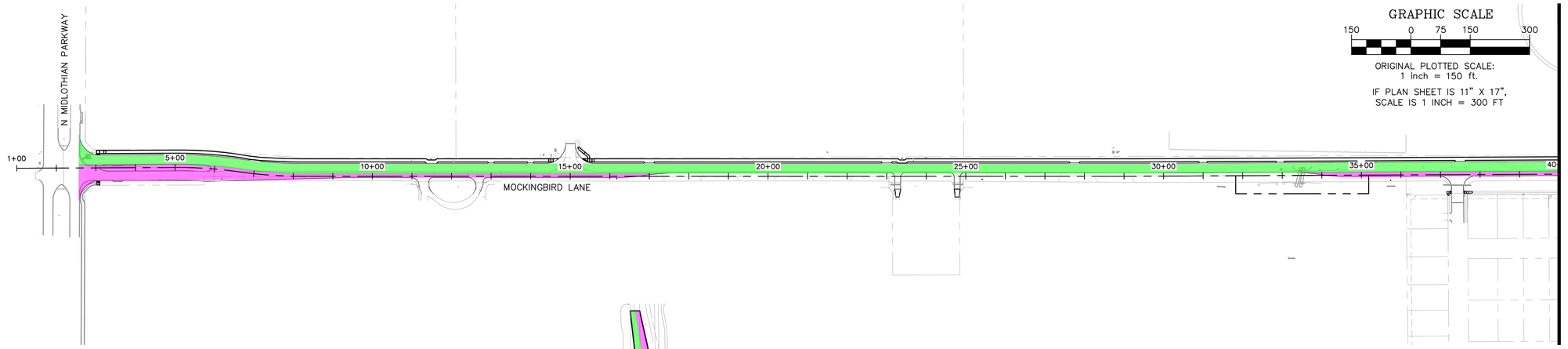
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

PAVING DETAILS - (SHEET 5 OF 5)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER

C1.105

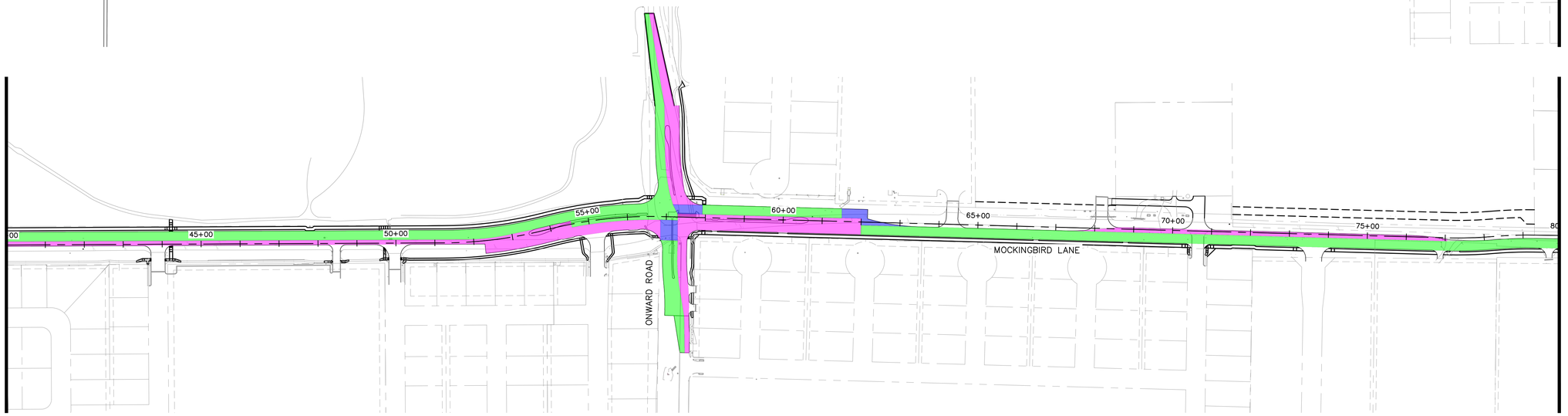


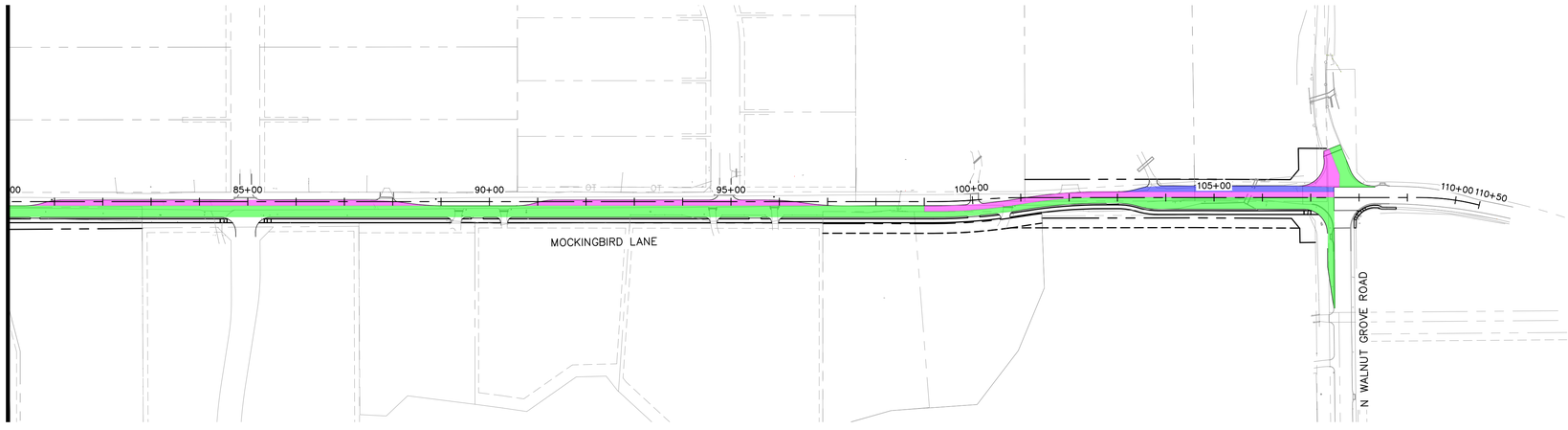
GRAPHIC SCALE

150 0 75 150 300

ORIGINAL PLOTTED SCALE:
1 inch = 150 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 300 FT





LEGEND

- PHASE 1
- PHASE 2
- PHASE 3

TRAFFIC CONTROL NARRATIVE

PHASE 1:
1. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES AND WARNING SIGNS.
2. CONSTRUCT TEMPORARY ASPHALT.
3. REMOVE EXISTING PAVEMENT.
4. CONSTRUCT PROPOSED STORM DRAIN LINES.
5. CONSTRUCT PROPOSED STORM DRAIN LINES.
6. CONSTRUCT PROPOSED PAVEMENT.

PHASE 2:
1. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES AND WARNING SIGNS.
2. CONSTRUCT TEMPORARY ASPHALT.
3. REMOVE EXISTING PAVEMENT.
4. CONSTRUCT PROPOSED STORM DRAIN LINES.
5. CONSTRUCT PROPOSED PAVEMENT.

PHASE 3:
1. INSTALL TEMPORARY TRAFFIC CONTROL DEVICES AND WARNING SIGNS.
2. REMOVE EXISTING PAVEMENT.
3. CONSTRUCT PROPOSED STORM DRAIN LINES.
4. CONSTRUCT PROPOSED PAVEMENT.

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

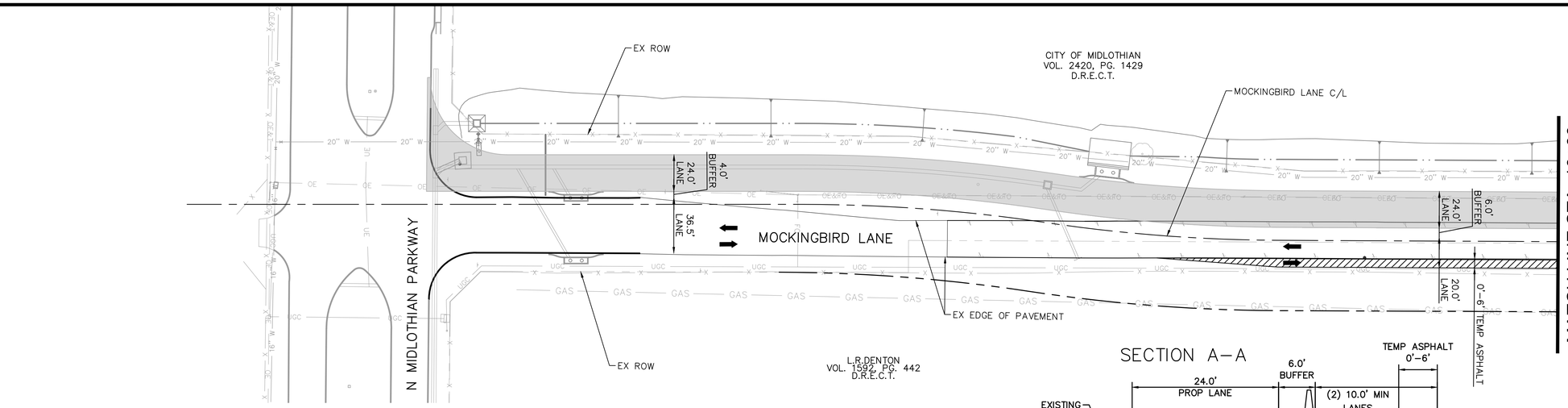
SEQUENCE OF CONSTRUCTION PHASING MAP

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER

C2.01

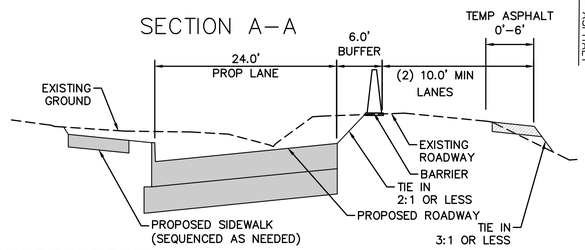
Plotted By: 2026-08-21 11:26:59, Holland, Lindsey
Last Saved: 2026-08-21 09:35:20 (TCP KEYMAP)
k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\traffic control plan keymap.dwg
Filename:

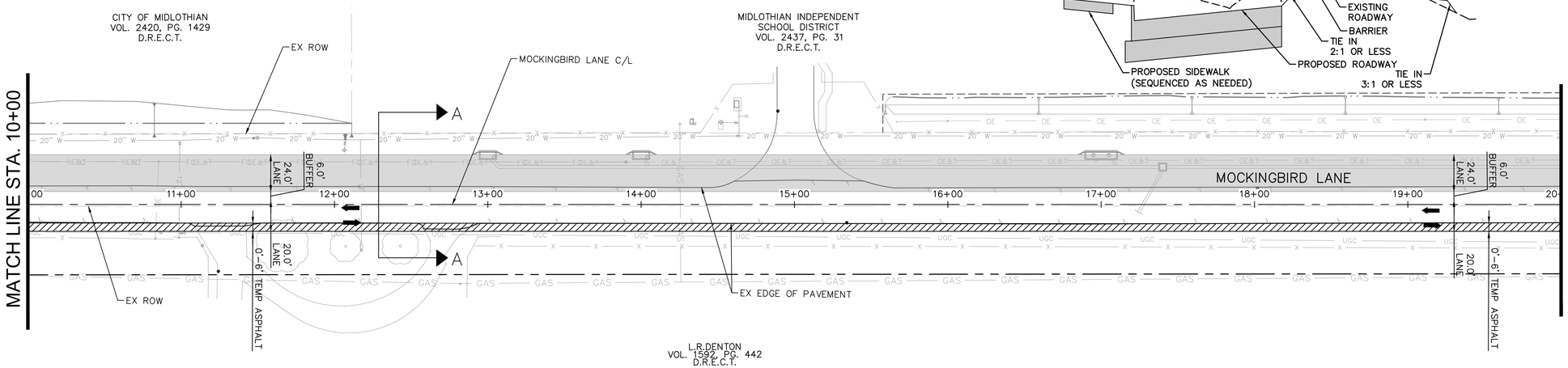


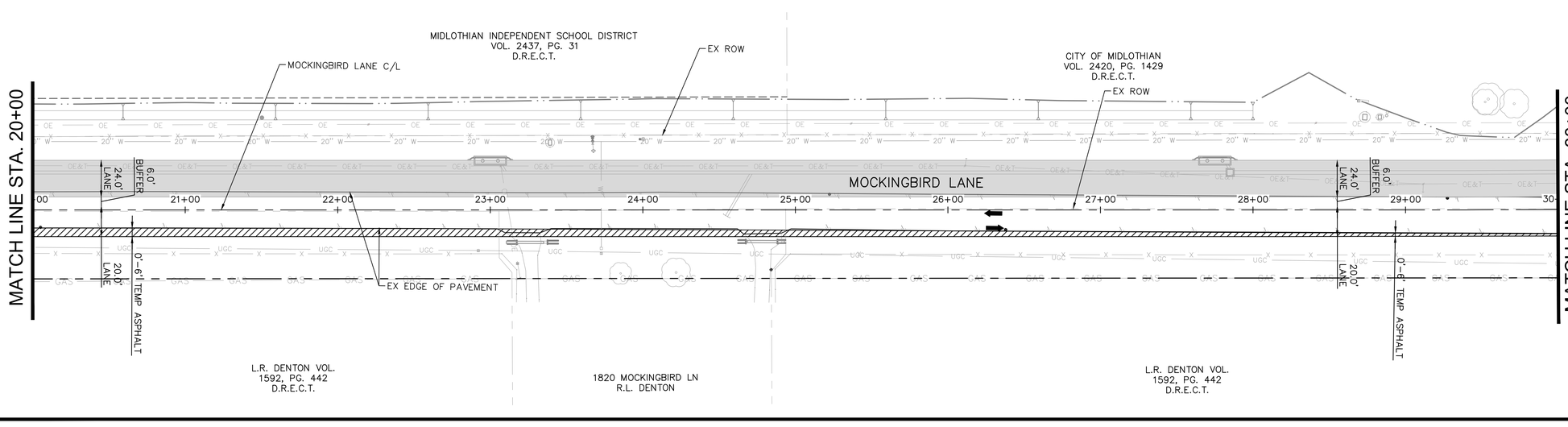
LEGEND

- CURRENT PHASE PAVEMENT CONSTRUCTION
- CURRENT TEMPORARY ASPHALT

SECTION A–A







MATCH LINE STA. 10+00

NOTE:

1. CONTRACTOR IS RESPONSIBLE FOR INSTALLING TEMPORARY DRAINAGE STRUCTURES WHEN NEEDED TO MAINTAIN EX DRAINAGE PATHS (SUBSIDIARY TO TRAFFIC CONTROL PAY ITEM).
2. DRIVEWAY CONSTRUCTION TO BE COORDINATED WITH CITY AND PROPERTY.
3. SIDEWALK AND ADDITIVE ALTERNATES TO BE SEQUENCED SEPARATELY.
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MATCH LINE STA. 20+00

GRAPHIC SCALE

40 0 20 40 80

ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 80 FT

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

SEQUENCE OF CONSTRUCTION PHASE 1 - (SHEET 1 OF 4)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER

C2.02

Plotted, By: 2026-08-21 11:27:35, Holland, Lindsey
Last Saved: 2026-08-21 09:34:02 (Sheet 1)
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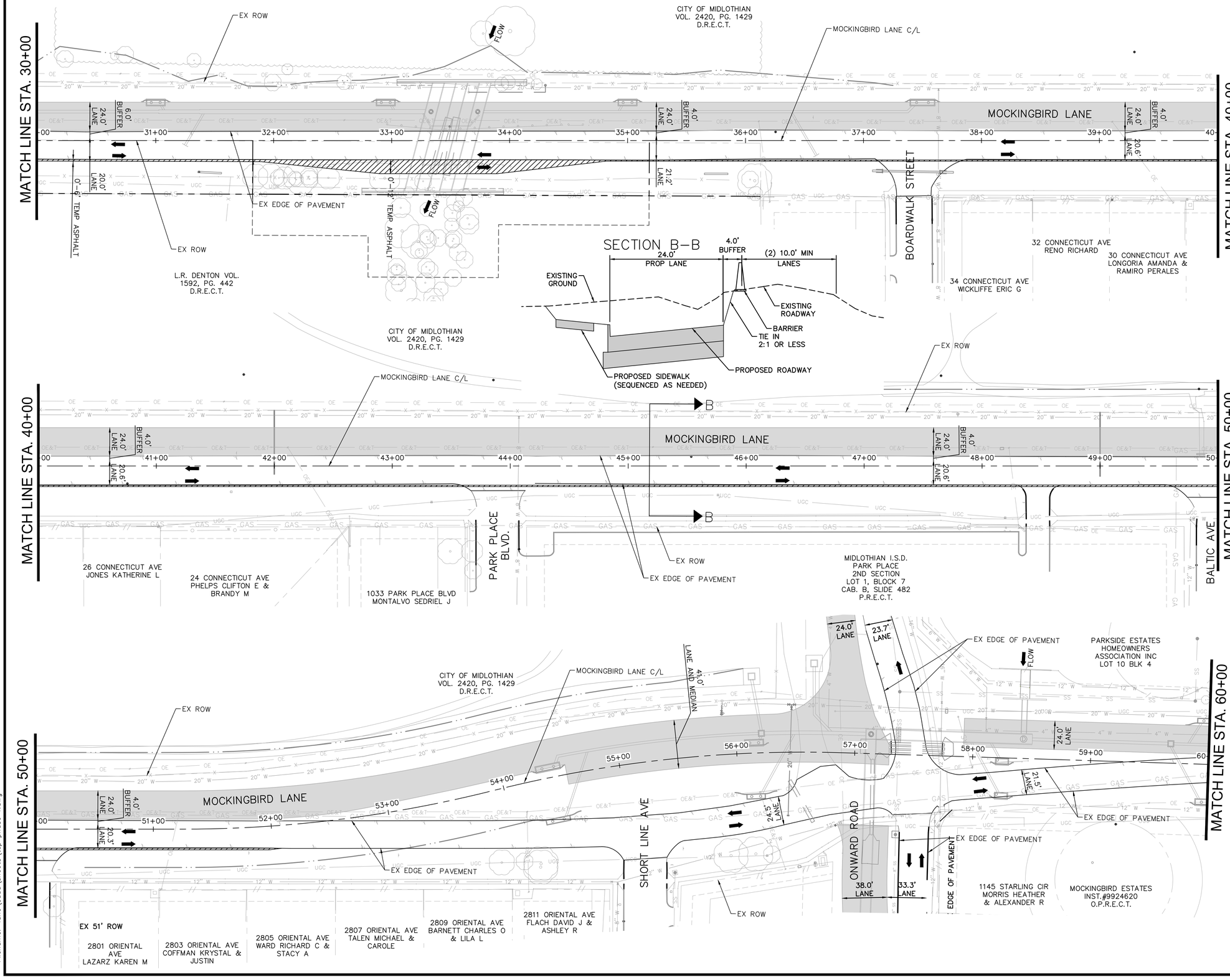

LEGEND

- CURRENT PHASE PAVEMENT CONSTRUCTION
- CURRENT TEMPORARY ASPHALT

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GRAPHIC SCALE

40 0 20 40 80

ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 80 FT

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MICKEY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

SEQUENCE OF CONSTRUCTION PHASE 1 - (SHEET 2 OF 4)

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C2.03

Plotted By: 2026-08-21 11:27:50, Holland, Lindsey
Last Saved: 2026-08-21 09:34:02 (Sheet 2)
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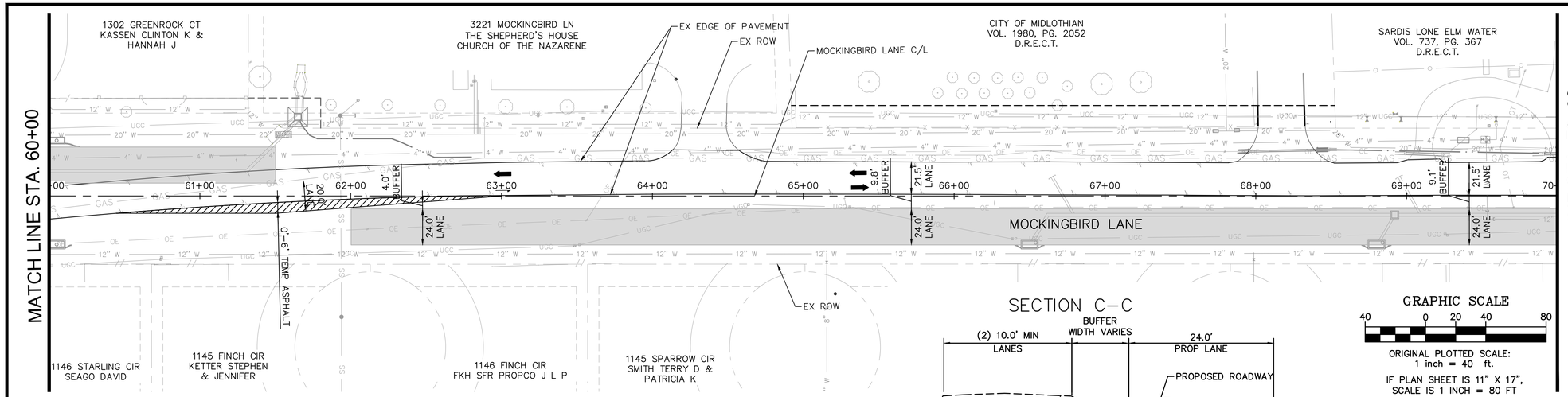
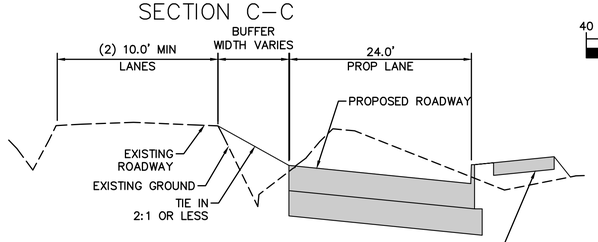


SECTION C–C



GRAPHIC SCALE

40 0 20 40 80

ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

IF PLAN SHEET IS 11" X 17",
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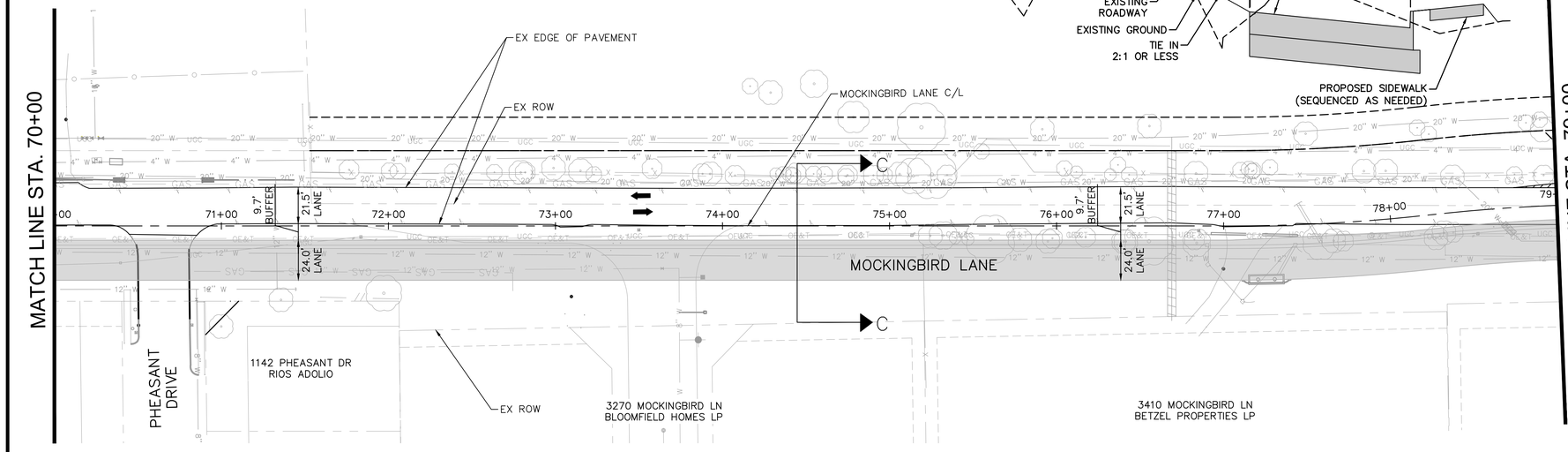

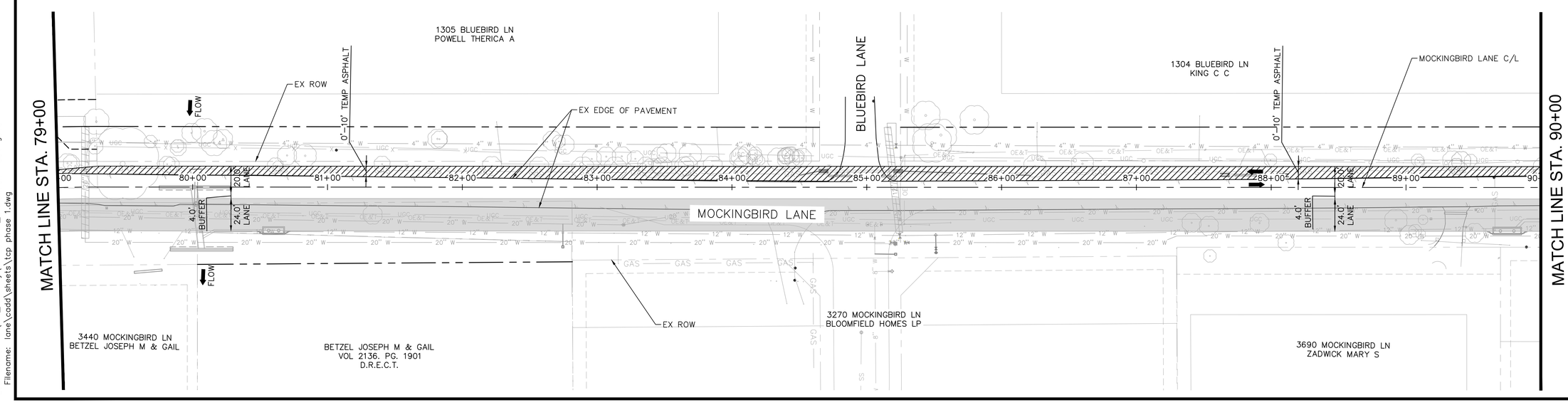

LEGEND

- CURRENT PHASE PAVEMENT CONSTRUCTION
- CURRENT TEMPORARY ASPHALT

NOTE:

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Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

9/21/2026
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

SEQUENCE OF CONSTRUCTION PHASE 1 - (SHEET 3 OF 4)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C2.04

Plotted By: 2026-08-21 11:28:06, Holland, Lindsey
Last Saved: 2026-08-21 09:34:02 (Sheet 3)
k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\tcp phase 1.dwg
Filename:

MATCH LINE STA. 90+00

1305 DOVE DR
HARE THOMAS V

MOCKINGBIRD LANE C/L

DOVE DRIVE

1304 DOVE DR
BROW CASWALL & VIOLET
REVOCABLE LIVING TRUST

3841 MOCKINGBIRD LN
DURHAM LEE & JANICE

EX EDGE OF PAVEMENT

EX ROW

0'-10' TEMP ASPHALT

MOCKINGBIRD LANE

MATCH LINE STA. 100+00

3696 MOCKINGBIRD LN
BRYANT KEN G & SHERYL M

3810 MOCKINGBIRD LN
OBERSHAW WILLIAM E
& VIRGINIA K

3840 MOCKINGBIRD LN
COOK MARIA C & SHAWN G

SECTION D-D

(2) 10.0' MIN LANES | 4.0' BUFFER | 24.0' PROP LANE

TEMP ASPHALT 0'-10'

EXISTING GROUND

PROPOSED ROADWAY
PROPOSED SIDEWALK
(SEQUENCED AS NEEDED)

MATCH LINE STA. 100+00

3841 MOCKINGBIRD LN
DURHAM LEE & JANICE

4021 MOCKINGBIRD LN
HOUK WILLIAM S

1371 WALNUT GROVE RD
LOSPALLUTO MICHAEL T & JUDY K

0'-14' TEMP ASPHALT

EX EDGE OF PAVEMENT

MOCKINGBIRD LANE C/L

PROP ROW

MOCKINGBIRD LANE

1510 WALNUT GROVE RD
ARNOLD DIANA L ETAL

CITY OF MIDLOTHIAN
R.O.W. DEED
VOL. 1235, PG. 1688
D.R.E.C.T.

990 WALNUT GROVE RD
MIDLOTHIAN ISD

N WALNUT GROVE ROAD

3840 MOCKINGBIRD LN
COOK MARIA C & SHAWN G

1191 WALNUT GROVE RD
GOODMAN CINDY D &
RICHARD E

PROP ROW

SECTION E-E

(2) 10.0' MIN LANES | 8.0' BUFFER | 24.0' PROP LANE

TEMP ASPHALT 0'-14'

TIE IN 2:1 OR LESS

TIE IN 3:1 OR LESS

PROPOSED ROADWAY

EXISTING GROUND

PROPOSED SIDEWALK
(SEQUENCED AS NEEDED)

EXISTING ROADWAY

ONWARD ROAD

FLOW

EX EDGE OF PAVEMENT

EX EDGE OF PAVEMENT

GRAPHIC SCALE

40 0 20 40 80

ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 80 FT

LEGEND

- CURRENT PHASE PAVEMENT CONSTRUCTION
- CURRENT TEMPORARY ASPHALT

NOTE:

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Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

9/21/2026
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

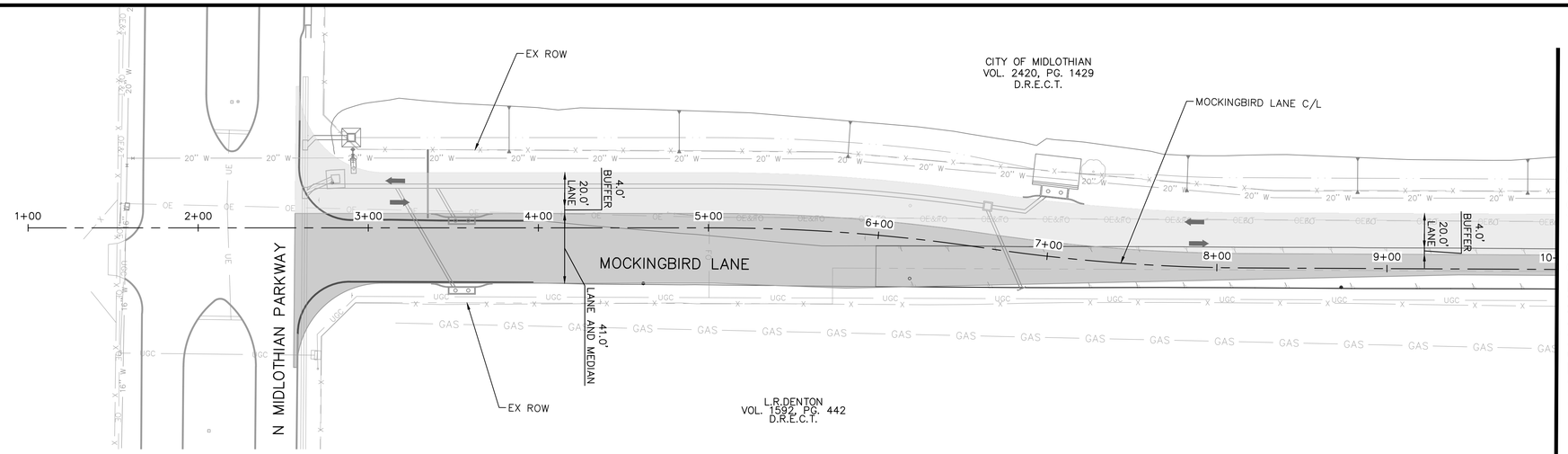
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

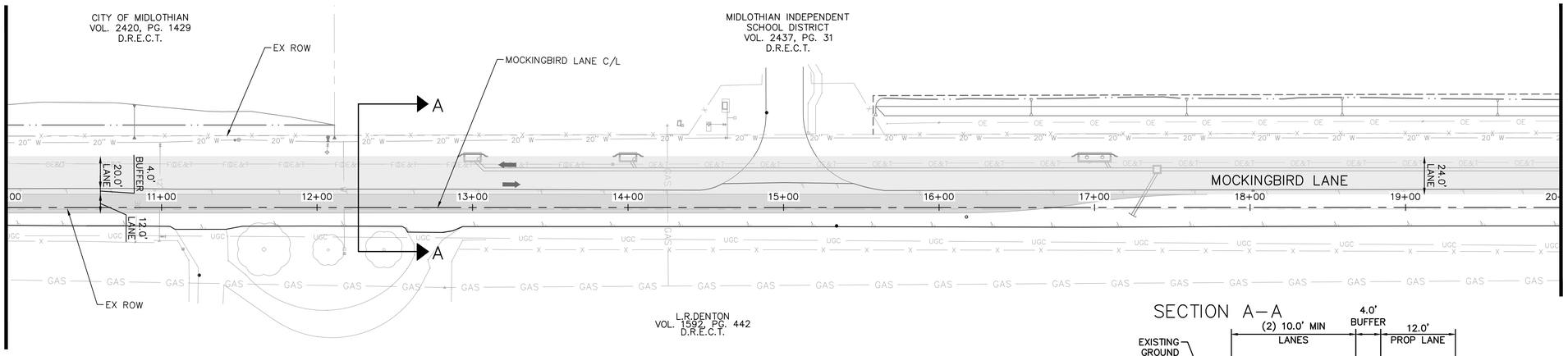
SEQUENCE OF CONSTRUCTION PHASE 1 - (SHEET 4 OF 4)

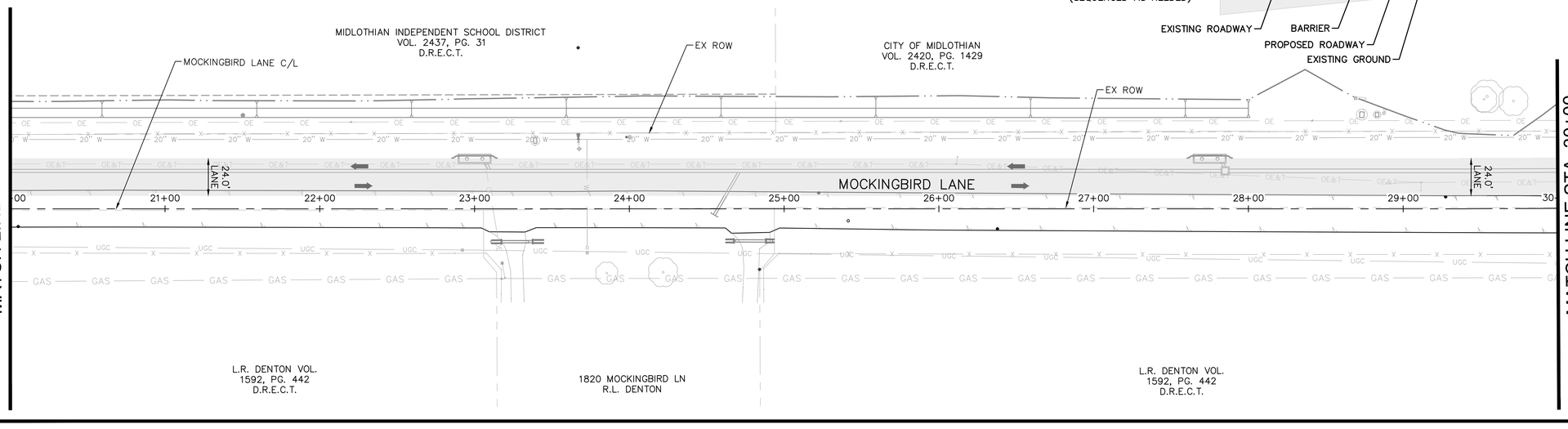
DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

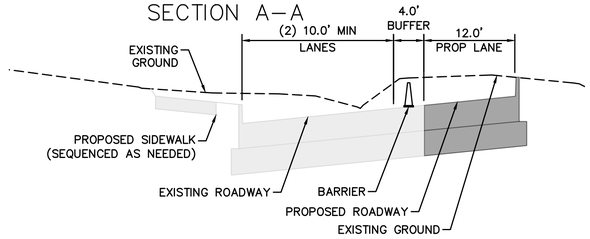
SHEET NUMBER
C2.05

Plotted, By: 2026-08-21 11:28:25, Holland, Lindsey
Last Saved: 2026-08-21 09:34:02 (Sheet 4)
Filename: k:\fw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\tcp phase 1.dwg









LEGEND

- CURRENT PHASE PAVEMENT CONSTRUCTION
- CURRENT TEMPORARY ASPHALT
- PREVIOUSLY CONSTRUCTED PAVEMENT

NOTE:

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GRAPHIC SCALE

40 0 20 40 80

ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

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SCALE IS 1 INCH = 80 FT

Kimley»Horn
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No.	Revision	By	Date

8/21/2026
MISTY D. CHRISTIAN
98384
STATE OF TEXAS
REGISTERED
PROFESSIONAL
ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

SEQUENCE OF CONSTRUCTION PHASE 2
- (SHEET 1 OF 4)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C2.06

Plotted, By: 2026-08-21 11:29:10, Holland, Lindsey
Last Saved: 2026-08-21 11:17:25 (Sheet 1)
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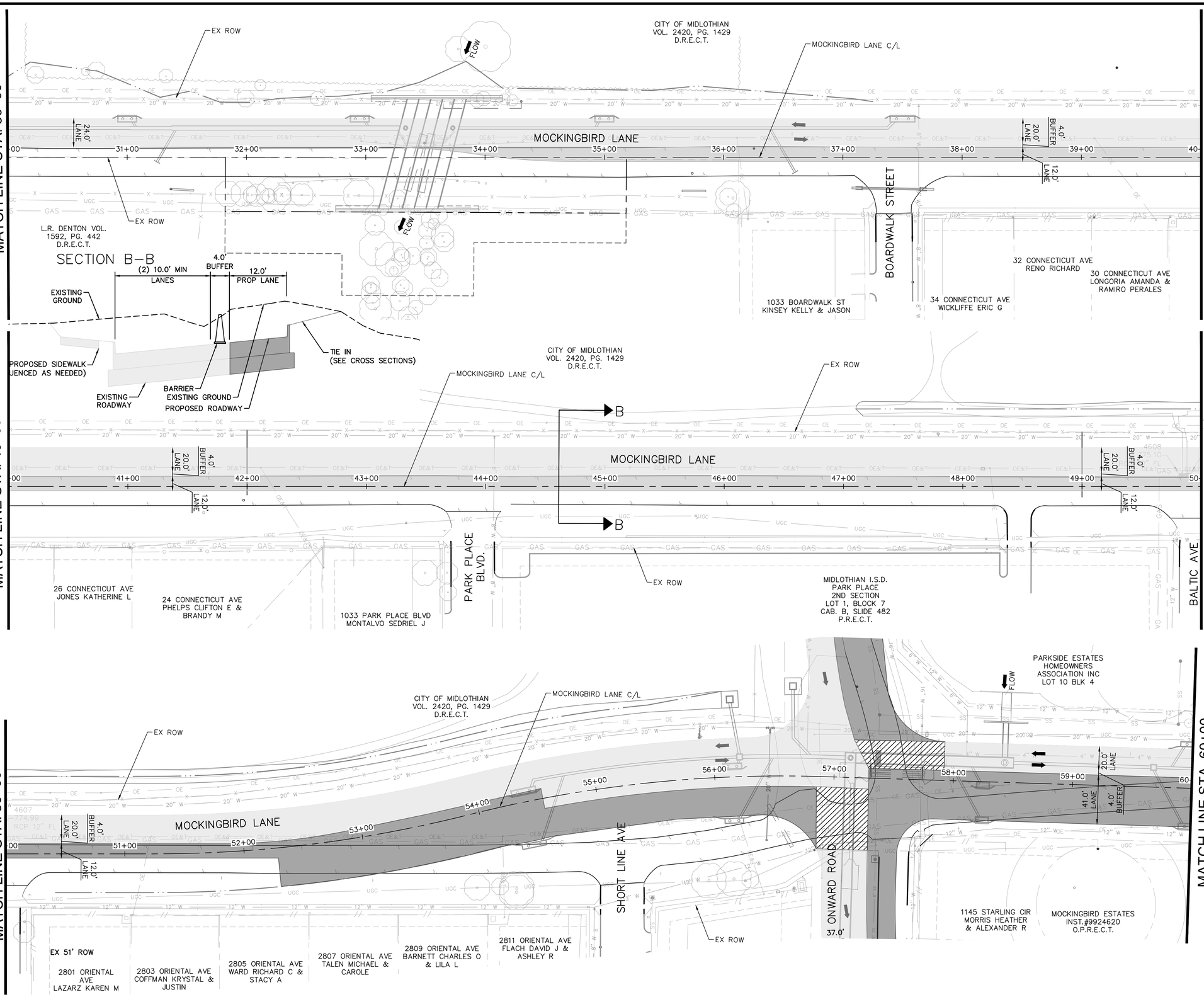

LEGEND

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- CURRENT TEMPORARY ASPHALT
- PREVIOUSLY CONSTRUCTED PAVEMENT

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9/21/2026
MISTY D. CHRISTIAN
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CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

SEQUENCE OF CONSTRUCTION PHASE 2 - (SHEET 2 OF 4)

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C2.07

Plotted, By: 2026-08-21 11:29:28, Holland, Lindsey
Last Saved: 2026-08-21 11:17:25 (Sheet 2)
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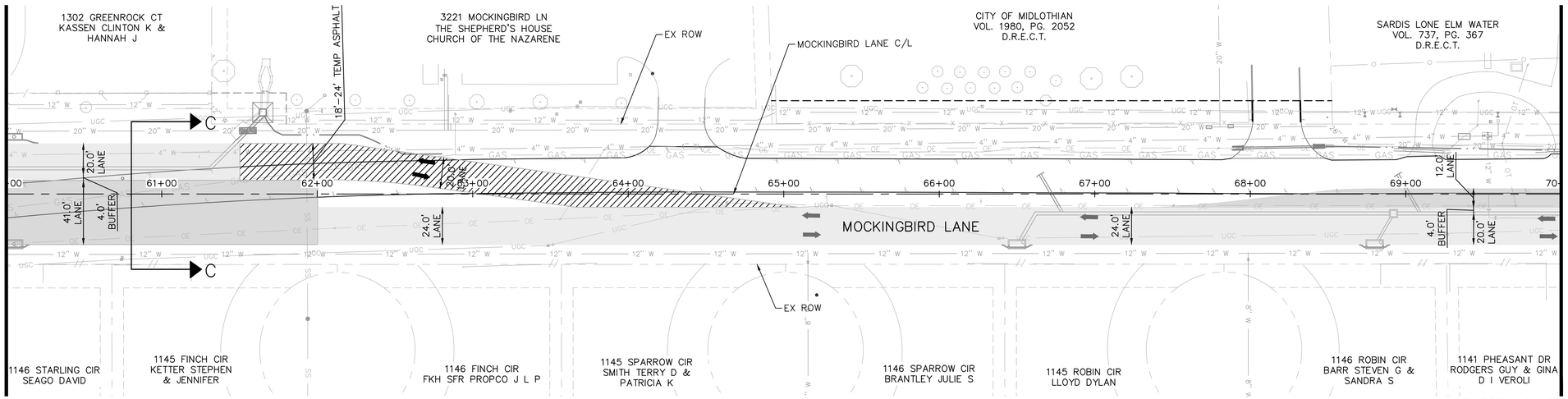

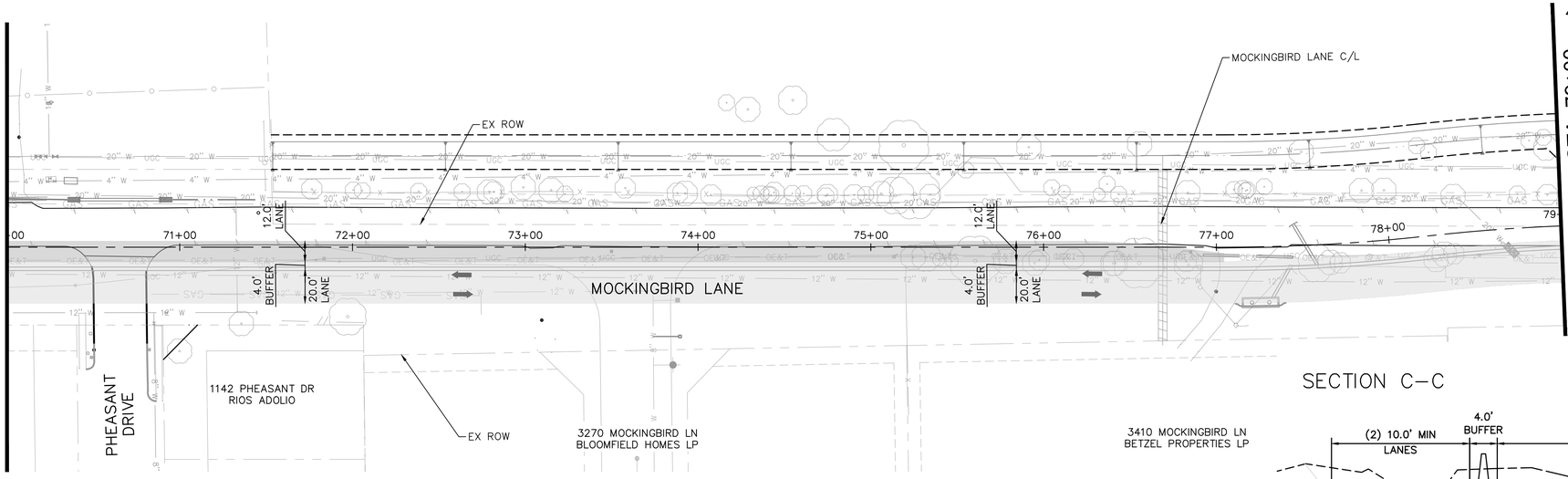

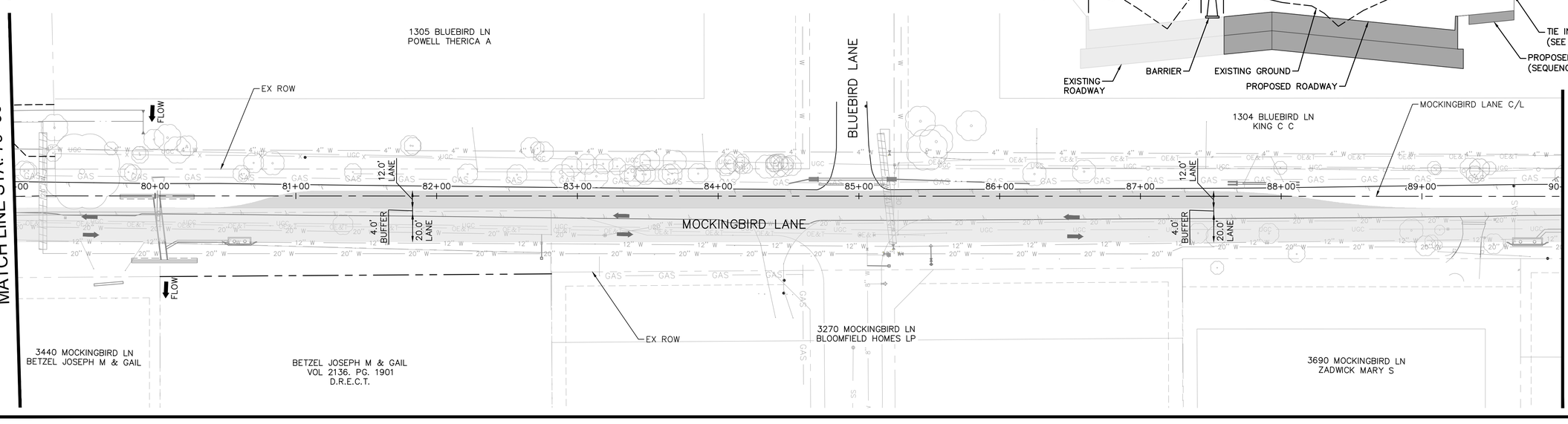

LEGEND

- CURRENT PHASE PAVEMENT CONSTRUCTION
- CURRENT TEMPORARY ASPHALT
- PREVIOUSLY CONSTRUCTED PAVEMENT

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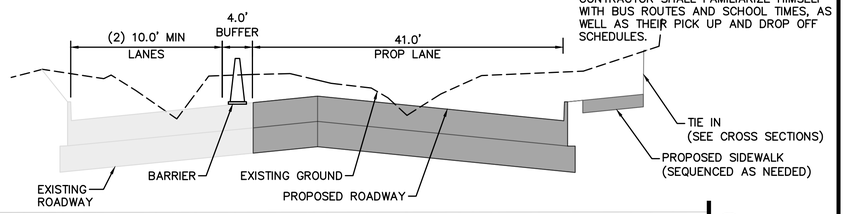
40 0 20 40 80

ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 80 FT

SECTION C–C



Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

9/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

SEQUENCE OF CONSTRUCTION PHASE 2 - (SHEET 3 OF 4)

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C2.08

Plotted, By: 2026-08-21 11:29:46, Holland, Lindsey
Last Saved: 2026-08-21 11:17:25 (Sheet 3)
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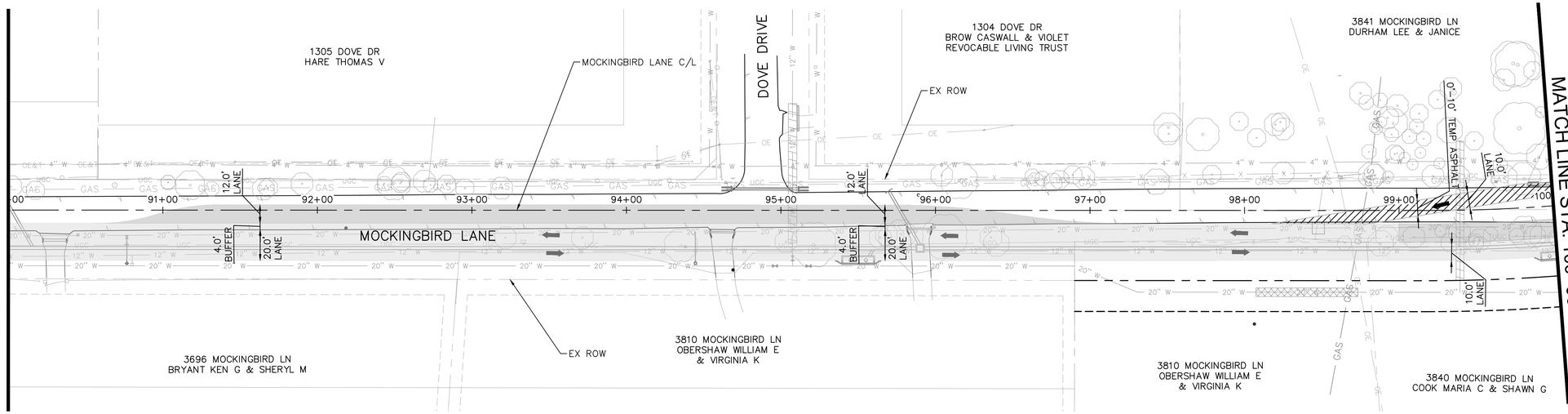

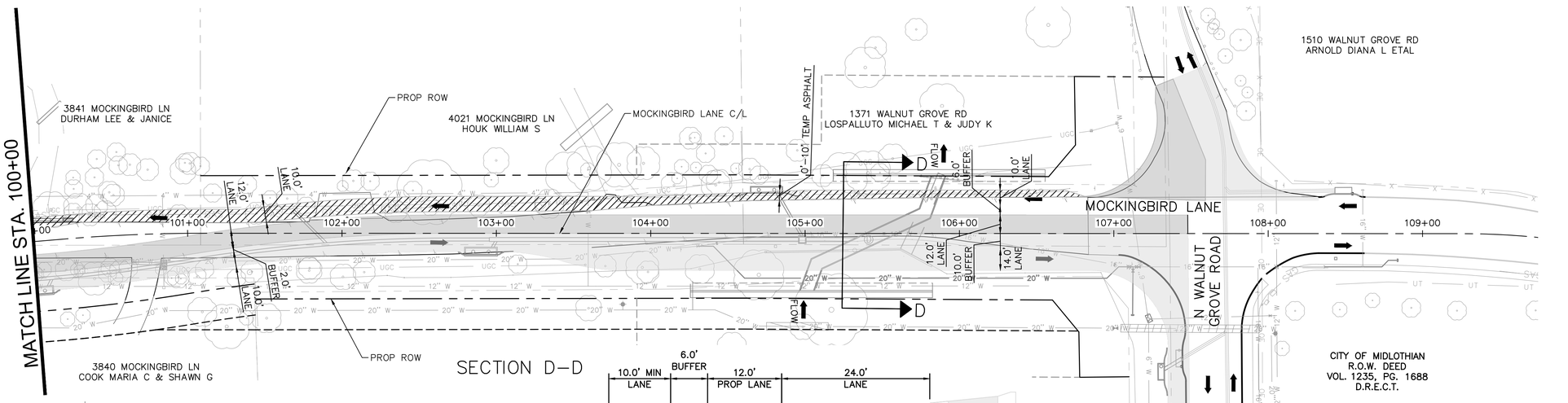

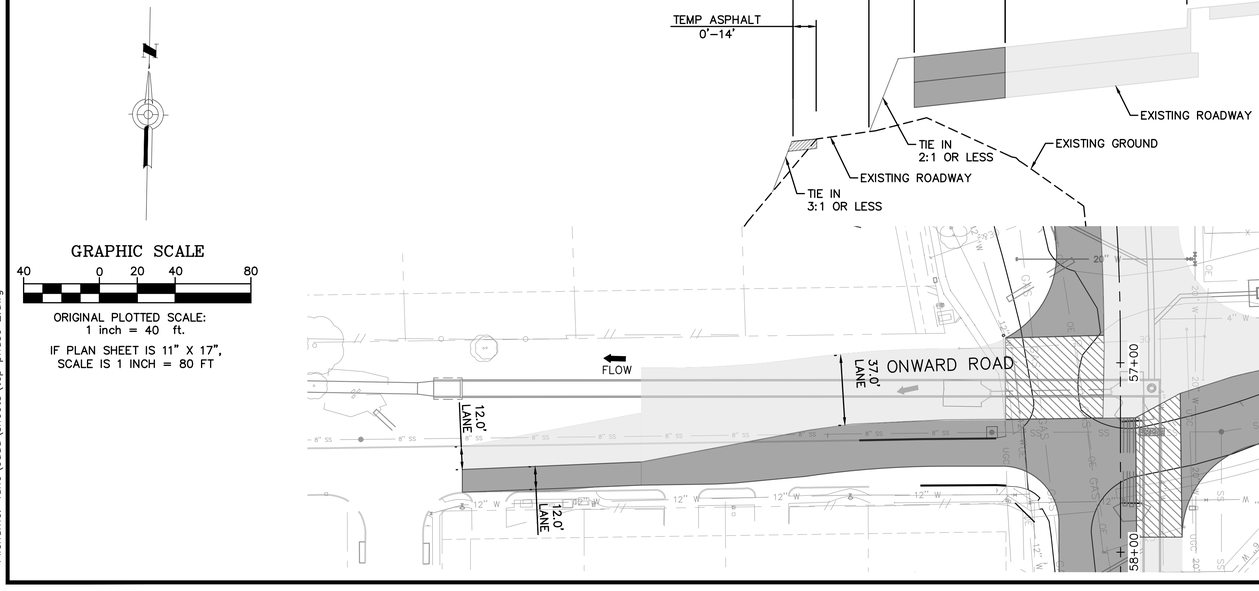

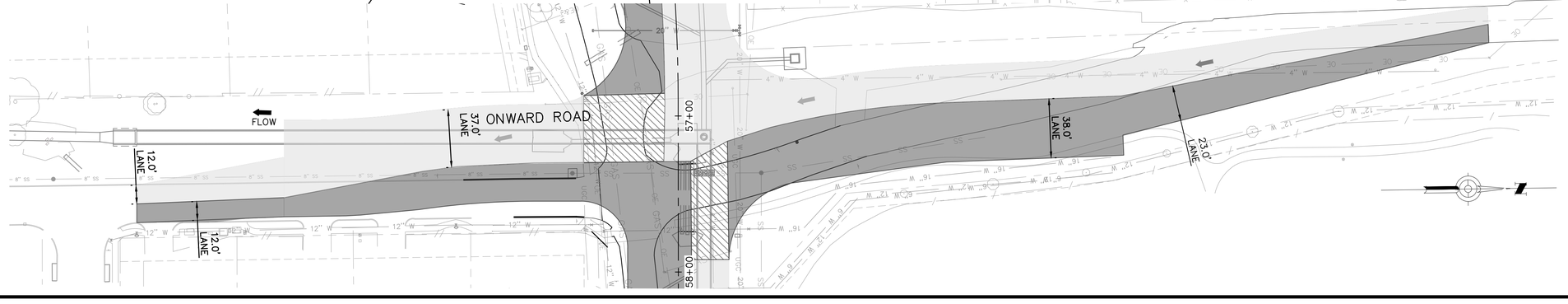

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40 0 20 40 80

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LEGEND

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No.	Revision	By	Date

8/21/2026
MICKEY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

SEQUENCE OF CONSTRUCTION PHASE 2 - (SHEET 4 OF 4)

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C2.09

Plotted, By: 2026-08-21 11:30:05, Holland, Lindsey
Last Saved: 2026-08-21 11:17:25 (Sheet 4)
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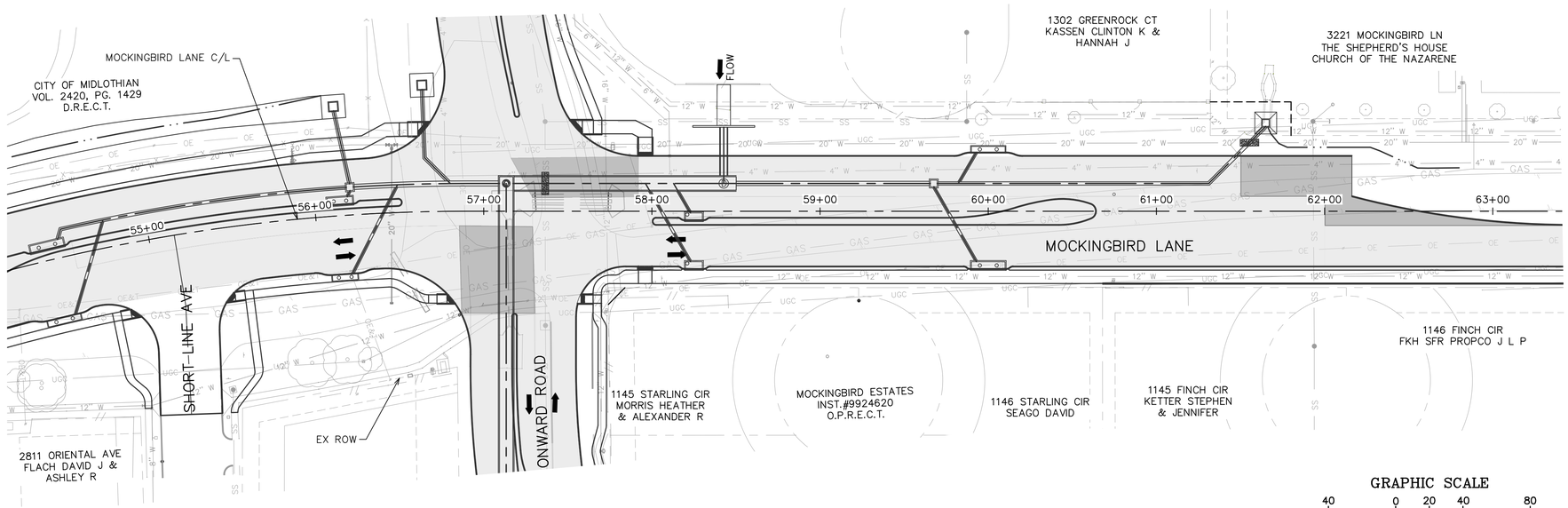

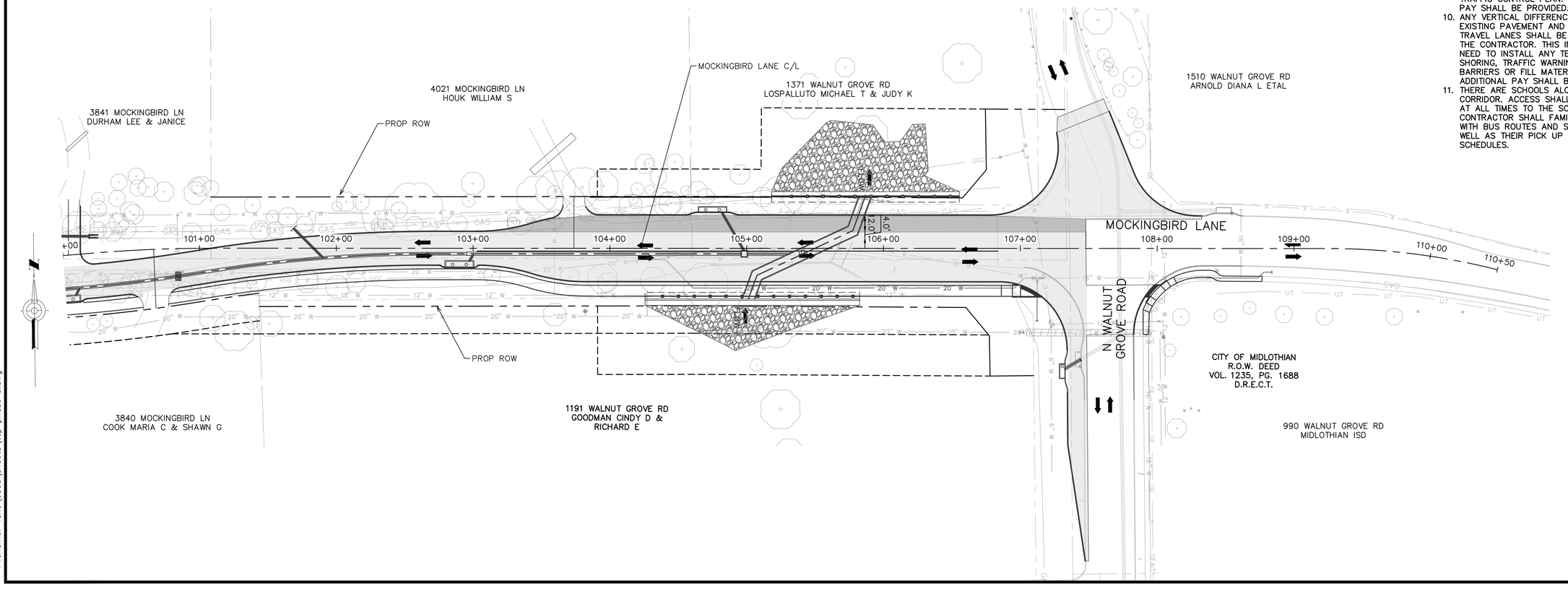

LEGEND

CURRENT PHASE PAVEMENT CONSTRUCTION

PREVIOUSLY CONSTRUCTED PAVEMENT

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9/21/2026
STATE OF TEXAS
MICKEY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

SEQUENCE OF CONSTRUCTION PHASE 3

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

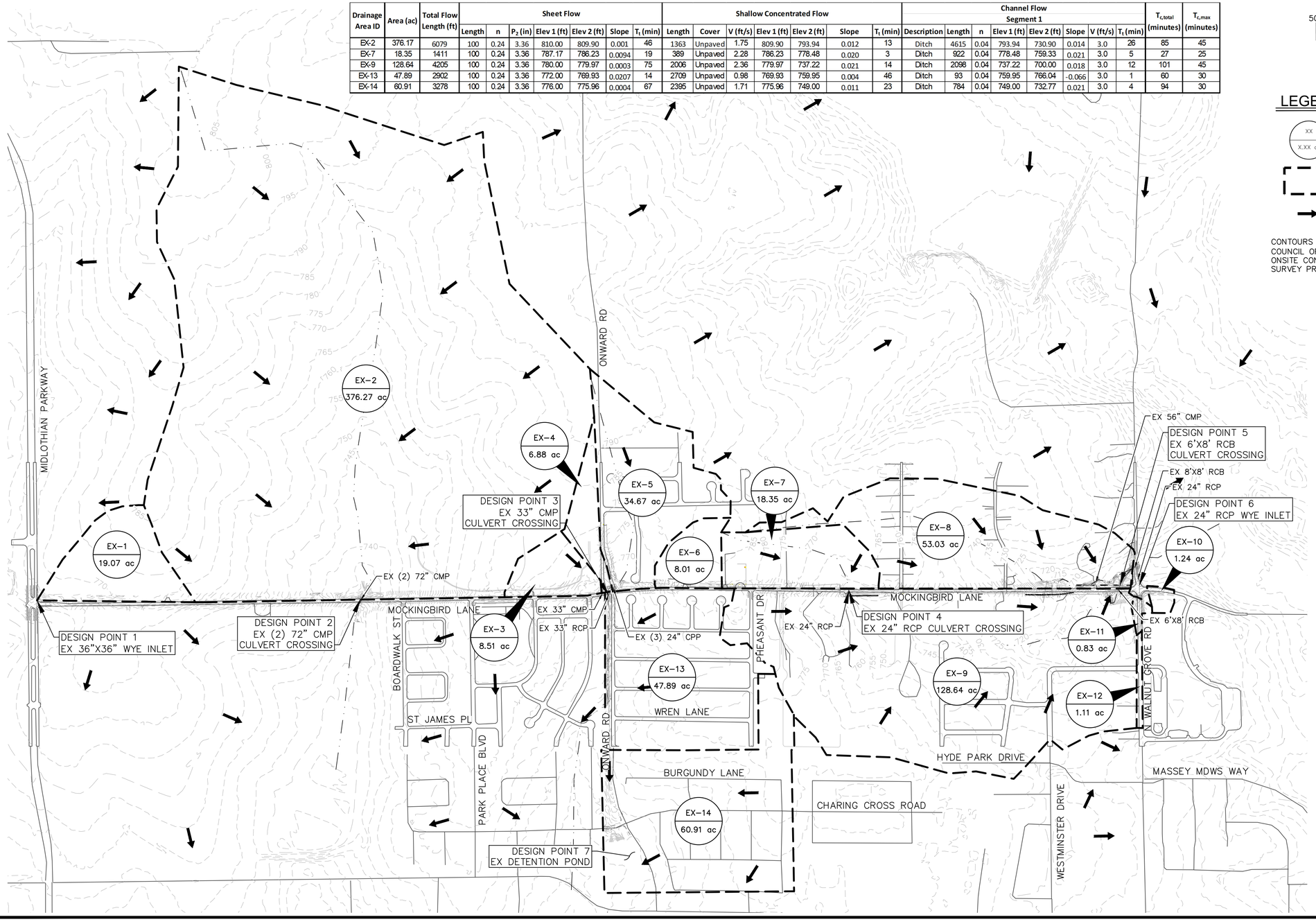
SHEET NUMBER

C2.10

Plotted, By: 2026-08-21 11:30:42, Holland, Lindsey
Last Saved: 2026-08-21 07:41:48 (Sheet 4)
Filename: k:\tw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\tcp phase 3.dwg

Design Point	Name	Area (sf)	Area (ac)	Runoff Coefficient	Tc, max (minutes)	Ca(25-year)	Ca(100-year)	C*Ca (25-year)	C*Ca (100-year)	2-year intensity	10-year intensity	25-year intensity	100-year intensity	2-year Flow	10-year Flow	25-year Flow	100-year Flow
1	EX-1	830532.27	19.07	0.40	15	1.1	1.25	0.44	0.50	3.90	5.64	6.72	8.36	29.74	43.01	56.38	79.70
2	EX-2	16390354.25	376.27	0.40	45	1.1	1.25	0.44	0.50	2.26	3.295	3.86	4.82	340.15	495.92	639.06	905.87
3	EX-3	370529.93	8.51	0.40	15	1.1	1.25	0.44	0.50	3.90	5.64	6.72	8.36	13.27	19.19	25.15	35.56
3	EX-4	299538.94	6.88	0.40	15	1.1	1.25	0.44	0.50	3.90	5.64	6.72	8.36	10.73	15.51	20.33	28.74
3	EX-5	1510336.82	34.67	0.50	15	1.1	1.25	0.55	0.63	3.90	5.64	6.72	8.36	67.61	97.78	128.15	181.16
3	EX-6	349002.24	8.01	0.50	15	1.1	1.25	0.55	0.63	3.90	5.64	6.72	8.36	15.62	22.59	29.61	41.86
4	EX-7	799410.36	18.35	0.30	25	1.1	1.25	0.33	0.38	3.13	4.49	5.35	6.65	17.21	24.74	32.38	45.79
5	EX-8	2309786.48	53.03	0.40	15	1.1	1.25	0.44	0.50	3.90	5.64	6.72	8.36	82.72	119.63	156.79	221.65
5	EX-9	5603556.77	128.64	0.50	45	1.1	1.25	0.55	0.63	2.26	3.30	3.86	4.82	145.36	211.93	273.10	387.13
6	EX-10	54122.72	1.24	0.90	10	1.1	1.25	0.99	1.13	4.70	6.78	8.10	10.14	5.26	7.58	9.96	14.17
6	EX-11	36302.21	0.83	0.90	10	1.1	1.25	0.99	1.13	4.70	6.78	8.10	10.14	3.53	5.09	6.68	9.51
6	EX-12	48437.55	1.11	0.90	10	1.1	1.25	0.99	1.13	4.70	6.78	8.10	10.14	4.70	6.79	8.92	12.68
7	EX-13	2085968.87	47.89	0.50	30	1.1	1.25	0.55	0.63	2.74	3.92	4.66	5.80	65.61	93.86	122.74	173.59
7	EX-14	2653387.93	60.91	0.70	30	1.1	1.25	0.77	0.88	2.74	3.92	4.66	5.80	116.83	167.15	218.57	309.14

Drainage Area ID	Area (ac)	Total Flow Length (ft)	Sheet Flow							Shallow Concentrated Flow							Channel Flow Segment 1								$T_{c,total}$ (minutes)	$T_{c,max}$ (minutes)
			Length	n	P_2 (in)	Elev 1 (ft)	Elev 2 (ft)	Slope	T_t (min)	Length	Cover	V (ft/s)	Elev 1 (ft)	Elev 2 (ft)	Slope	T_t (min)	Description	Length	n	Elev 1 (ft)	Elev 2 (ft)	Slope	V (ft/s)	T_t (min)		
EX-2	376.17	6079	100	0.24	3.36	810.00	809.90	0.001	46	1363	Unpaved	1.75	809.90	793.94	0.012	13	Ditch	4615	0.04	793.94	730.90	0.014	3.0	26	85	45
EX-7	18.35	1411	100	0.24	3.36	787.17	786.23	0.0094	19	389	Unpaved	2.28	786.23	778.48	0.020	3	Ditch	922	0.04	778.48	759.33	0.021	3.0	5	27	25
EX-9	128.64	4205	100	0.24	3.36	780.00	779.97	0.0003	75	2006	Unpaved	2.36	779.97	737.22	0.021	14	Ditch	2098	0.04	737.22	700.00	0.018	3.0	12	101	45
EX-13	47.89	2902	100	0.24	3.36	772.00	769.93	0.0207	14	2709	Unpaved	0.98	769.93	759.95	0.004	46	Ditch	93	0.04	759.95	766.04	-0.066	3.0	1	60	30
EX-14	60.91	3278	100	0.24	3.36	776.00	775.96	0.0004	67	2395	Unpaved	1.71	775.96	749.00	0.011	23	Ditch	784	0.04	749.00	732.77	0.021	3.0	4	94	30



GRAPHIC SCALE

500 0 250 500 1000

ORIGINAL PLOTTED SCALE:
1 inch = 500 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 1000 FT

LEGEND

XX / X.XX ac — DRAINAGE AREA NAME & INLET NAME; DRAINAGE AREA (Acres)

DRAINAGE AREA BOUNDARY

DRAINAGE FLOW DIRECTION

CONTOURS SHOWN ARE FROM THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) 2-FT CONTOURS. ONSITE CONTOURS ARE BASED UPON THE TOPOGRAPHIC SURVEY PREPARED BY BRITTAIN AND CRAWFORD 2021.

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

STATE OF TEXAS — MISTY D. CHRISTIAN — 98384 — REGISTERED PROFESSIONAL ENGINEER — 8/21/2026

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

EXISTING OVERALL DRAINANGE AREA MAP

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C3.01

Plotted, By: 2026-08-21 13:03:51, Del Rosso, Austin
Last Saved: 2026-08-19 17:56:11 (EX DAM)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\dam_ex.dwg

Design Point	Existing - Runoff Coefficient	Existing - 100-Year (CFS)	Developed Offsite - Runoff Coefficient	Developed Offsite - 100-Year (CFS)
1	0.40	79.70	0.85	127.89
2	0.40	905.87	0.78	2127.34
3	0.45	287.33	0.78	451.24
4	0.30	45.79	0.83	83.75
5	0.45	608.77	0.78	765.56
6	0.90	36.37	0.90	34.12
7	0.60	482.73	0.60	480.12

GRAPHIC SCALE

500 0 250 500 1000

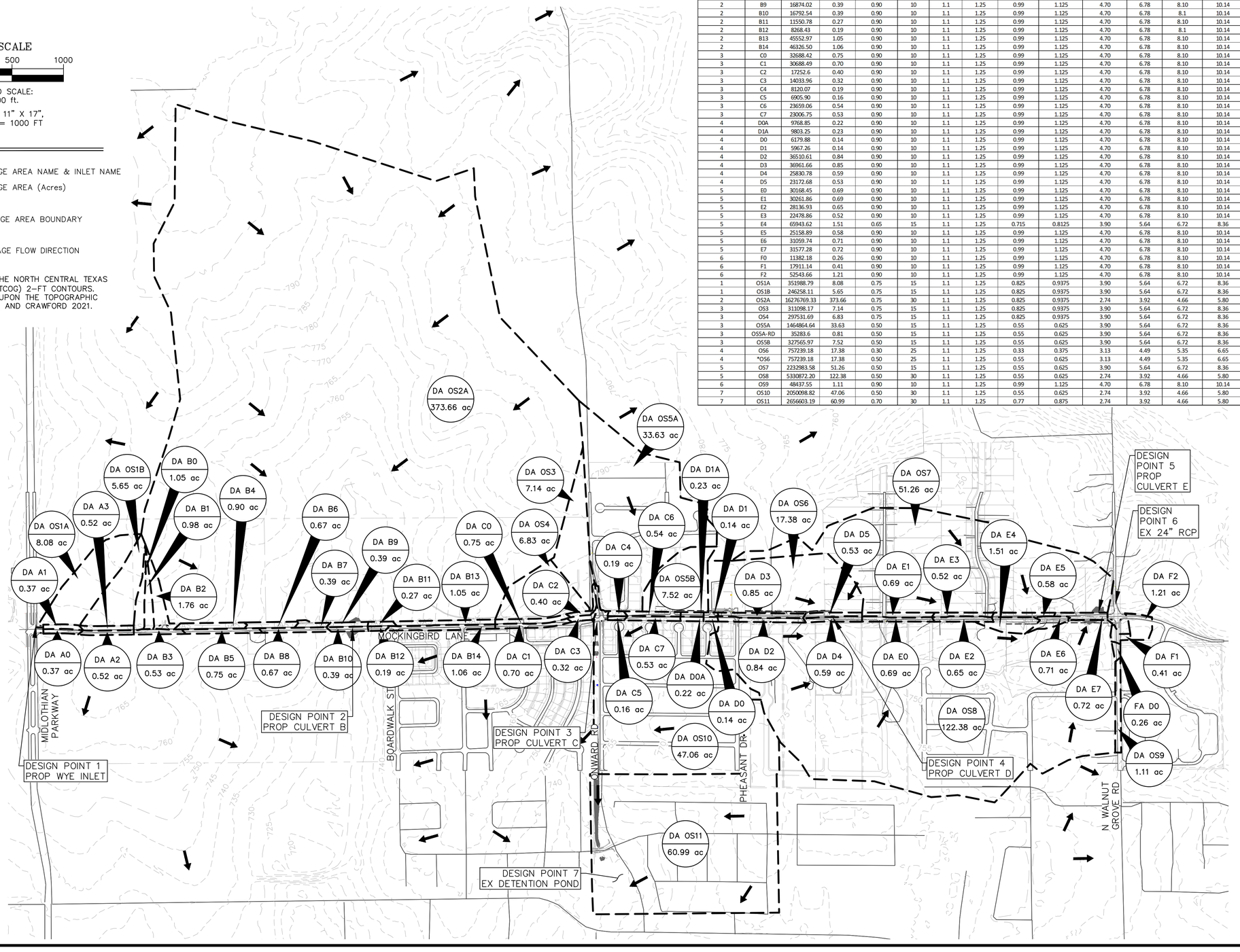
ORIGINAL PLOTTED SCALE:
1 inch = 500 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 1000 FT

LEGEND

- XX / X.XX ac — DRAINAGE AREA NAME & INLET NAME / DRAINAGE AREA (Acres)
- DRAINAGE AREA BOUNDARY
- DRAINAGE FLOW DIRECTION

CONTOURS SHOWN ARE FROM THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) 2-FT CONTOURS. ONSITE CONTOURS ARE BASED UPON THE TOPOGRAPHIC SURVEY PREPARED BY BRITTAIN AND CRAWFORD 2021.



Design Point	Name	Area (sf)	Area (ac)	Runoff Coefficient	Tc (min)	Ca(25-year)	Ca(100-year)	C*Ca (25-year)	C*Ca (100-year)	2-year intensity	10-year intensity	25-year intensity	100-year intensity	2-year Flow	10-year Flow	25-year Flow	100-year Flow
1	A0	15958.53	0.37	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	1.55	2.24	2.94	4.18
1	A1	16221.13	0.37	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	1.58	2.27	2.99	4.25
1	A2	22506.53	0.52	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	2.19	3.15	4.14	5.89
1	A3	22657.81	0.52	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	2.20	3.17	4.17	5.93
2	B0	45700.41	1.05	0.35	15	1.1	1.25	0.385	0.438	3.90	5.64	6.72	8.36	1.43	2.07	2.71	3.84
2	B1	42611.06	0.98	0.35	15	1.1	1.25	0.385	0.438	3.90	5.64	6.72	8.36	1.34	1.93	2.53	3.58
2	B2	76665.75	1.76	0.35	15	1.1	1.25	0.385	0.438	3.90	5.64	6.72	8.36	2.40	3.47	4.55	6.44
2	B3	23119.22	0.53	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	2.25	3.24	4.26	6.05
2	B4	39217.39	0.90	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	3.81	5.49	7.22	10.27
2	B5	32864.46	0.75	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	3.19	4.60	6.05	8.61
2	B6	29206.45	0.67	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	2.84	4.09	5.38	7.65
2	B7	16822.46	0.39	0.70	10	1.1	1.25	0.77	0.875	4.70	6.78	8.10	10.14	1.27	1.83	2.41	3.43
2	B8	29084.31	0.67	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	2.82	4.07	5.35	7.62
2	B9	16874.02	0.39	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	1.64	2.36	3.11	4.42
2	B10	16792.54	0.39	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.1	10.14	1.63	2.35	3.09	4.40
2	B11	11550.78	0.27	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	1.12	1.62	2.13	3.02
2	B12	8268.43	0.19	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.1	10.14	0.80	1.16	1.52	2.17
2	B13	45552.97	1.05	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	4.42	6.38	8.39	11.93
2	B14	46326.50	1.06	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	4.50	6.49	8.53	12.13
3	C0	32688.42	0.75	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	3.17	4.58	6.02	8.56
3	C1	30688.49	0.70	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	2.98	4.30	5.65	8.04
3	C2	17252.6	0.40	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	1.68	2.42	3.18	4.52
3	C3	14033.96	0.32	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	1.36	1.97	2.58	3.68
3	C4	8120.07	0.19	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	0.79	1.14	1.49	2.13
3	C5	6905.90	0.16	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	0.67	0.97	1.27	1.81
3	C6	23659.06	0.54	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	2.30	3.31	4.36	6.20
3	C7	23006.75	0.53	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	2.23	3.22	4.24	6.03
4	D0A	9768.85	0.22	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	0.95	1.37	1.80	2.56
4	D1A	9803.25	0.23	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	0.95	1.37	1.80	2.57
4	D0	6179.88	0.14	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	0.60	0.87	1.14	1.62
4	D1	5967.26	0.14	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	0.58	0.84	1.10	1.56
4	D2	36510.61	0.84	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	3.55	5.11	6.72	9.56
4	D3	36961.66	0.85	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	3.59	5.18	6.80	9.68
4	D4	25830.78	0.59	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	2.51	3.62	4.76	6.76
4	D5	23172.68	0.53	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	2.25	3.25	4.27	6.07
5	E0	30168.45	0.69	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	2.93	4.23	5.55	7.90
5	E1	30261.86	0.69	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	2.94	4.24	5.57	7.92
5	E2	28136.93	0.65	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	2.73	3.94	5.18	7.37
5	E3	22478.86	0.52	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	2.18	3.15	4.14	5.89
5	E4	65943.62	1.51	0.65	15	1.1	1.25	0.715	0.8125	3.90	5.64	6.72	8.36	3.84	5.55	7.27	10.28
5	E5	25158.89	0.58	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	2.44	3.52	4.63	6.59
5	E6	31059.74	0.71	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	3.02	4.35	5.72	8.13
5	E7	31577.28	0.72	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	3.07	4.42	5.81	8.27
6	F0	11382.18	0.26	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	1.11	1.59	2.10	2.98
6	F1	17911.14	0.41	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	1.74	2.51	3.30	4.69
6	F2	52543.66	1.21	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	5.10	7.36	9.67	13.76
1	OS1A	351988.79	8.08	0.75	15	1.1	1.25	0.825	0.9375	3.90	5.64	6.72	8.36	23.64	34.18	44.80	63.33
1	OS1B	246258.11	5.65	0.75	15	1.1	1.25	0.825	0.9375	3.90	5.64	6.72	8.36	16.54	23.91	31.34	44.31
2	OS2A	16276769.33	373.66	0.75	30	1.1	1.25	0.825	0.9375	2.74	3.92	4.66	5.80	767.88	1098.57	1436.55	2031.79
3	OS3	311098.17	7.14	0.75	15	1.1	1.25	0.825	0.9375	3.90	5.64	6.72	8.36	20.89	30.21	39.59	55.97
3	OS4	297531.69	6.83	0.75	15	1.1	1.25	0.825	0.9375	3.90	5.64	6.72	8.36	19.98	28.89	37.87	53.53
3	OS5A	1464864.64	33.63	0.50	15	1.1	1.25	0.55	0.625	3.90	5.64	6.72	8.36	65.58	94.83	124.29	175.71
3	OS5A-RD	35283.6	0.81	0.50	15	1.1	1.25	0.55	0.625	3.90	5.64	6.72	8.36	1.58	2.28	64.28	85.79
3	OS5B	327565.97	7.52	0.50	15	1.1	1.25	0.55	0.625	3.90	5.64	6.72	8.36	14.66	21.21	27.79	39.29
4	OS6	757239.18	17.38	0.30	25	1.1	1.25	0.33	0.375	3.13	4.49	5.35	6.65	16.31	23.43	30.67	43.37
4	*OS6	757239.18	17.38	0.50	25	1.1	1.25	0.55	0.625	3.13	4.49	5.35	6.65	27.18	39.06	51.12	72.29
5	OS7	2232983.58	51.26	0.50	15	1.1	1.25	0.55	0.625	3.90	5.64	6.72	8.36	99.96	144.56	189.47	267.85
5	OS8	5330872.20	122.38	0.50	30	1.1	1.25	0.55	0.625	2.74	3.92	4.66	5.80	167.66	239.86	313.66	443.63
6	OS9	48437.55	1.11	0.90	10	1.1	1.25	0.99	1.125	4.70	6.78	8.10	10.14	4.70	6.79	8.92	12.68
7	OS10	2050098.82	47.06	0.50	30	1.1	1.25	0.55	0.625	2.74	3.92	4.66	5.80	64.48	92.25	120.62	170.61
7	OS11	2656603.19	60.99	0.70	30	1.1	1.25	0.77	0.875	2.74	3.92	4.66	5.80	116.97	167.35	218.83	309.51

* THIS LINE IS MEANT TO SHOW THE FLOW INFORMATION FOR A DEVELOPED ONSITE CONDITION.

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
MICHAEL J. CHRISTIAN 98384 LICENSED PROFESSIONAL ENGINEER STATE OF TEXAS

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

PROPOSED OVERALL
DRAINAGE AREA MAP

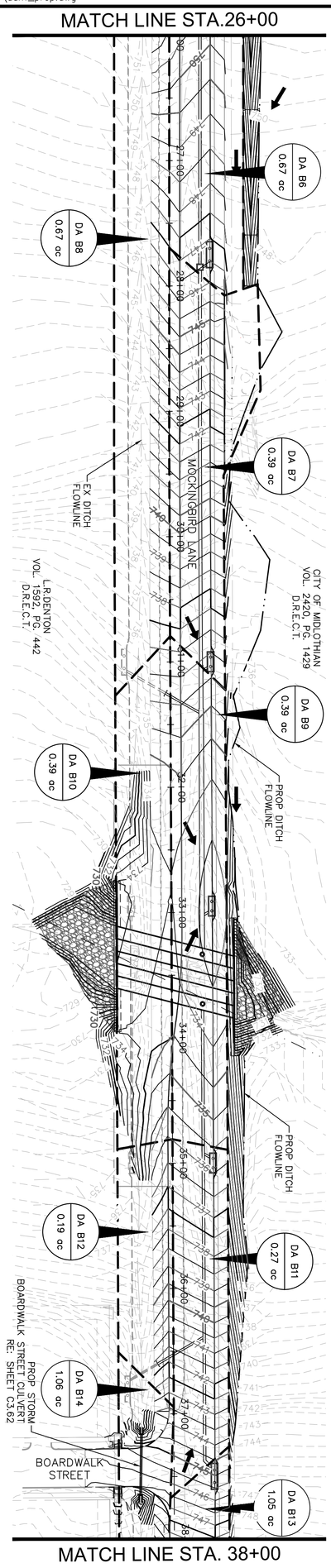
DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

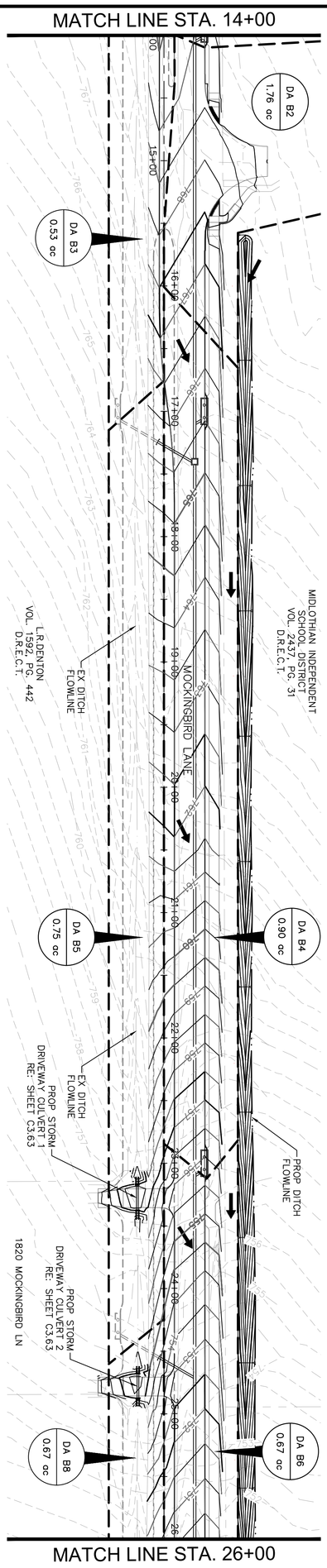
SHEET NUMBER

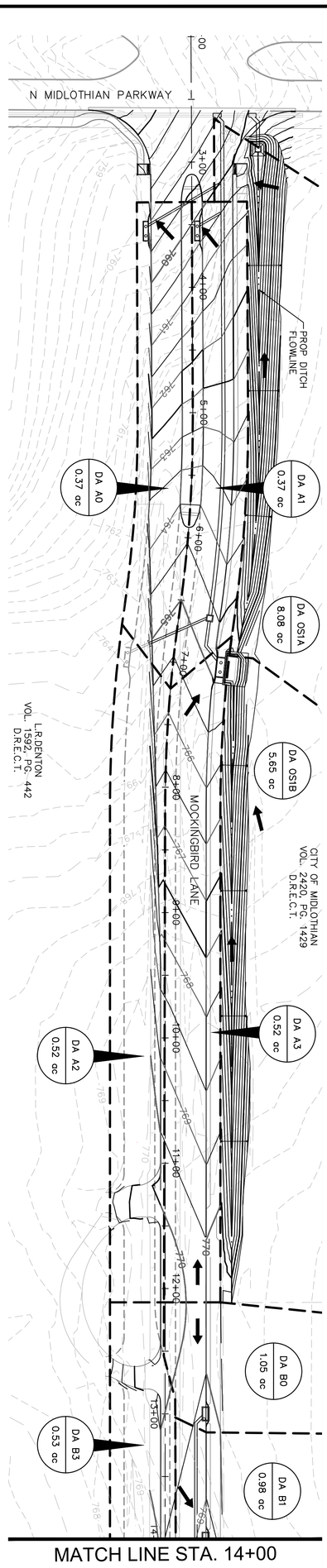
C3.02

Plotted, By: 2026-08-21 13:04:13, Del Rosso, Austin
Last Saved: 2026-08-20 10:39:06 (PROP DAM)
k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\dam_prop_overall.dwg
Filename:

2026-08-21 13:04:52, Del Rosso, Austin
Plotted, By: 2026-08-20 14:53:55 (PROP DAM DETAILED 1)
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird
Filename: lane\cadd\sheets\dam_prop.dwg







MATCH LINE STA. 14+00

LEGEND

- DRAINAGE AREA NAME & INLET NAME
- DRAINAGE AREA (Acres)
- DRAINAGE AREA BOUNDARY
- DRAINAGE FLOW DIRECTION
- PROPOSED CONTOURS
- EXISTING CONTOURS

CONTOURS SHOWN ARE FROM THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) 2-FT CONTOURS. ONSITE CONTOURS ARE BASED UPON THE TOPOGRAPHIC SURVEY PREPARED BY BRITTAIN AND CRAWFORD 2021.

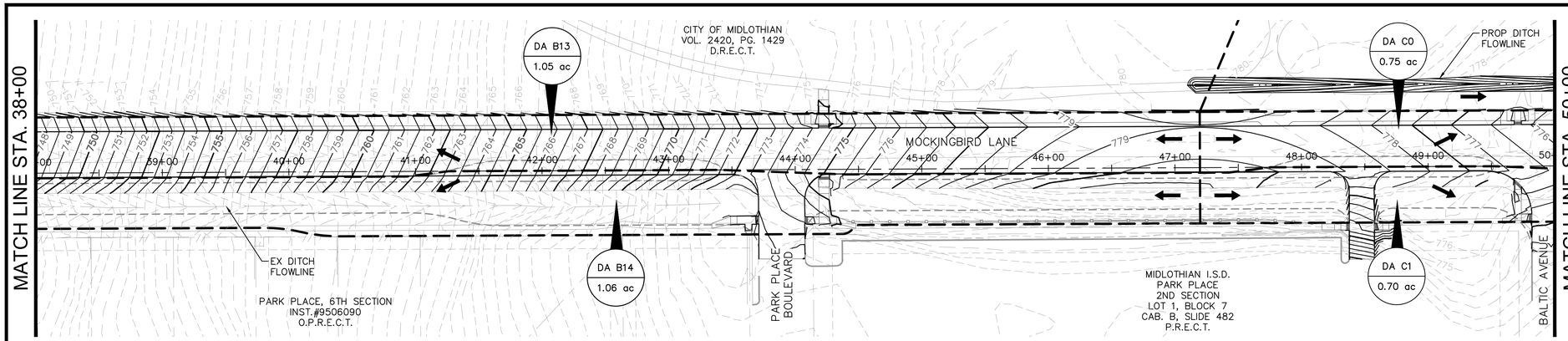
GRAPHIC SCALE
50 0 25 50 100
ORIGINAL PLOTTED SCALE: 1 inch = 50 ft.
IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 100 FT

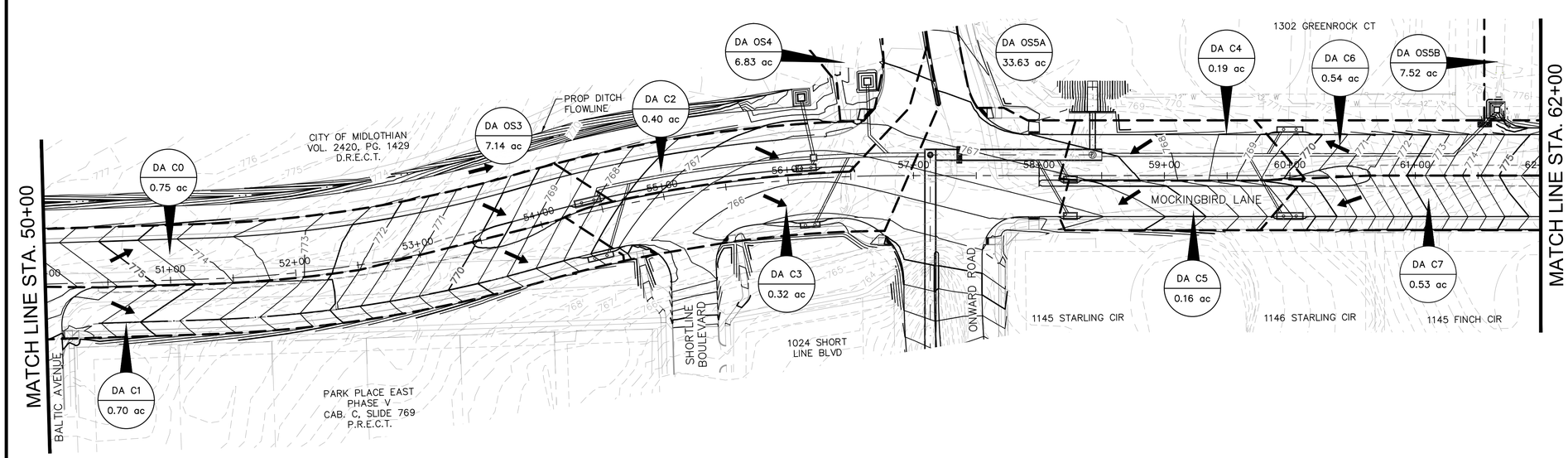
SHEET NUMBER C3.03	DATE: AUGUST 2026 DESIGN: ALC DRAWN: JSE CHECKED: MDC KHA NO.: 061265047	PROPOSED DRAINAGE AREA MAP - BEGIN TO STA 38+00	CITY OF MIDLOTHIAN MOCKINGBIRD LANE 2021 BOND PROJECT

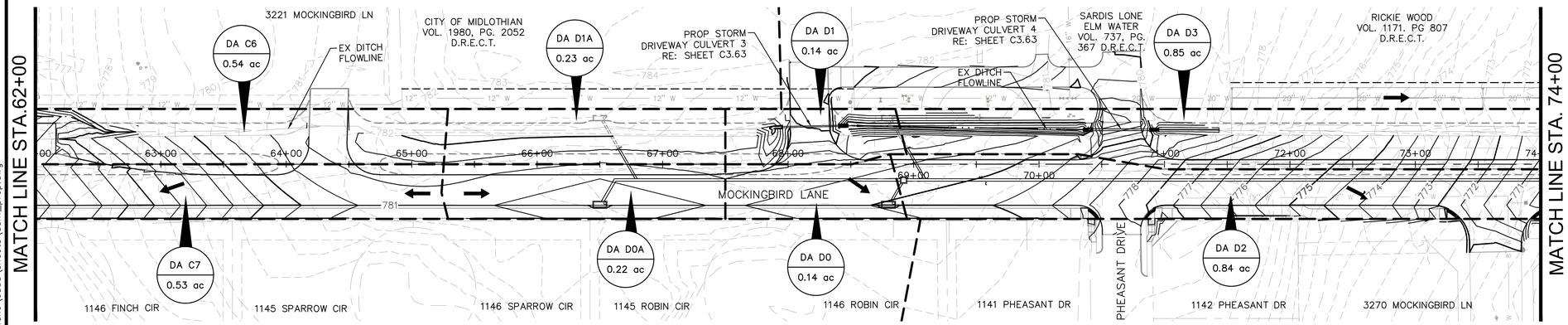
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

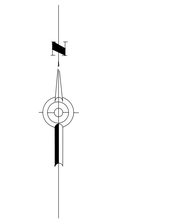
Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date









LEGEND

- XX / X.XX ac — DRAINAGE AREA NAME & INLET NAME / DRAINAGE AREA (Acres)
- DRAINAGE AREA BOUNDARY
- DRAINAGE FLOW DIRECTION
- 760 — PROPOSED CONTOURS
- 760 — EXISTING CONTOURS

CONTOURS SHOWN ARE FROM THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) 2-FT CONTOURS. ONSITE CONTOURS ARE BASED UPON THE TOPOGRAPHIC SURVEY PREPARED BY BRITTAIN AND CRAWFORD 2021.

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

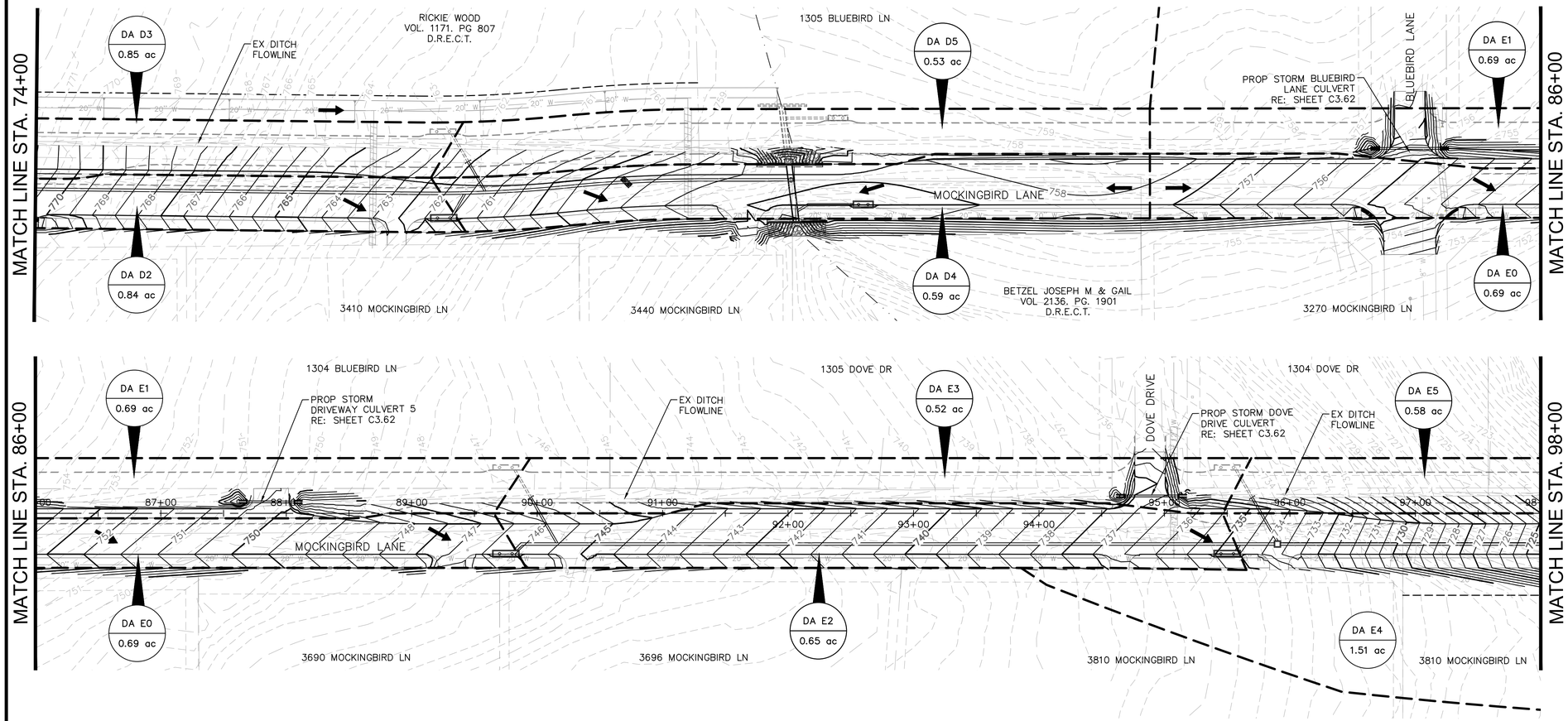
PROPOSED DRAINAGE AREA MAP - STA 38+00 TO STA 74+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C3.04

Plotted By: 2026-08-21 13:05:03, Del Rosso, Austin
Last Saved: 2026-08-20 14:53:55 (PROP DAM DETAILED 2)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\dam_prop.dwg



GRAPHIC SCALE

50 0 25 50 100

ORIGINAL PLOTTED SCALE:
1 inch = 50 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 100 FT

LEGEND

- XX / X.XX ac — DRAINAGE AREA NAME & INLET NAME / DRAINAGE AREA (Acres)
- DRAINAGE AREA BOUNDARY
- DRAINAGE FLOW DIRECTION
- 760 — PROPOSED CONTOURS
- 760 — EXISTING CONTOURS

CONTOURS SHOWN ARE FROM THE NORTH CENTRAL TEXAS COUNCIL OF GOVERNMENTS (NCTCOG) 2-FT CONTOURS. ONSITE CONTOURS ARE BASED UPON THE TOPOGRAPHIC SURVEY PREPARED BY BRITTAIN AND CRAWFORD 2021.

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

PROPOSED DRAINAGE AREA MAP - STA 74+00 TO END

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C3.05

Plotted, By: 2026-08-21 13:05:12, Del Rosso, Austin
Last Saved: 2026-08-20 14:53:55 (PROP DAM DETAILED 3)
k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\dam_prop.dwg
Filename: lane\cadd\sheets\dam_prop.dwg

25-YR CURB INLET CALCULATIONS

NOTE: INLETS SPREAD BASED ON SPREAD CRITERIA FOR 25-YEAR FLOW. 100-YR CURB INLETS INCLUDED FOR REFERENCE ONLY.

SYSTEM A

Inlet			Drainage Areas				25-year Intensity (in/hr)	25-year Runoff (cfs)	25-year Carryover Flow (cfs)	25-year Total Gutter Q (cfs)	"So" Street Long Slope (ft/ft)		Street Section (type)	F/F Pavement Width (ft)	S_x Cross Slope (ft/ft)	Manning's coefficient for pavement "n"	Street Capacity (cfs)		Street Name	Right-of-Way Capacity (cfs)	Design Storm	Depth of Flow "Yo"	Spread of Flow (Sp) (ft)		Allowable Spread (ft)	Pickup Per Foot Qo/Lo (cfs/ft)	Length required "Lo" (ft)	Length Provided "L" (ft)[3]	L/Lo	Inlet Efficiency	Inlet Interception (cfs)	25-year Carryover Flow "q" (cfs)	Bypass Target
Design Point	Inlet No.	Station, Offset	Area No.	Areas (acres)	Runoff "c"	Conc. Time (min.)					U/S (Sag)	D/S (Sag)					U/S (Sags)	D/S (Sags)				(ft)	U/S (Sags)	D/S (Sags)									
1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17		18	19	20	21	22		23	24	25	26	27	28	30	31	32
1	A0	STA: 3+55.00 OFF: 34.50' RT	A0	0.37	0.99	10.00	8.10	2.94	0.00	2.94	0.0200		Super	24	0.02	0.015	51.67		MOCKINGBIRD LANE ROAD	85.61	25	0.19	9.3		12.0	0.21	14.21	15	1.06	100.0%	2.94	0.00	
1	A1	STA: 3+55.00 OFF: 6.50' LT	A1	0.37	0.99	10.00	8.10	2.99	0.00	2.99	0.0185		Super	24	0.02	0.015	49.69		MOCKINGBIRD LANE ROAD	85.61	25	0.19	9.5		12.0	0.21	14.10	15	1.06	100.0%	2.99	0.00	
1	A2	STA: 7+00.00 OFF: 34.50' RT	A2	0.52	0.99	10.00	8.10	4.14	0.00	4.14	0.0110		Super	24	0.02	0.015	38.32		MOCKINGBIRD LANE ROAD	87.27	25	0.24	11.8		12.0	0.27	15.16	15	0.99	100.0%	4.14	0.00	A0
1	A3	STA: 7+00.00 OFF: 34.50' LT	A3	0.52	0.99	10.00	8.10	4.17	0.00	4.17	0.0110		Crown	24	0.02	0.015	38.32		MOCKINGBIRD LANE ROAD	87.27	25	0.24	11.8		12.0	0.27	15.21	15	0.99	100.0%	4.17	0.00	A1

SYSTEM B

Inlet			Drainage Areas				25-year Intensity (in/hr)	25-year Runoff (cfs)	25-year Carryover Flow (cfs)	25-year Total Gutter Q (cfs)	"So" Street Long Slope (ft/ft)		Street Section (type)	F/F Pavement Width (ft)	S_x Cross Slope (ft/ft)	Manning's coefficient for pavement "n"	Street Capacity (cfs)		Street Name	Right-of-Way Capacity (cfs)	Design Storm	Depth of Flow "Yo"	Spread of Flow (Sp) (ft)		Allowable Spread (ft)	Pickup Per Foot Qo/Lo (cfs/ft)	Length required "Lo" (ft)	Length Provided "L" (ft)[3]	L/Lo	Inlet Efficiency	Inlet Interception (cfs)	25-year Carryover Flow "q" (cfs)	Bypass Target
Design Point	Inlet No.	Station, Offset	Area No.	Areas (acres)	Runoff "c"	Conc. Time (min.)					U/S (Sag)	D/S (Sag)					U/S (Sags)	D/S (Sags)				(ft)	U/S (Sags)	D/S (Sags)									
1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17		18	19	20	21	22		23	24	25	26	27	28	30	31	32
2	B0	STA: 13+00.00 OFF: 34.00' LT	B0	1.05	0.39	15.00	6.72	2.71	0.00	2.71	0.0050		Super	24	0.02	0.015	25.83		MOCKINGBIRD LANE ROAD	54.46	25	0.23	11.7		12.0	0.27	9.97	10	1.00	100.0%	2.71	0.00	B1
2	B1	STA: 14+00.00 OFF: 34.00' LT	B1	0.98	0.39	15.00	6.72	2.53	0.00	2.53	0.0050		Super	24	0.02	0.015	25.83		MOCKINGBIRD LANE ROAD	53.93	25	0.23	11.4		12.0	0.26	9.58	10	1.04	100.0%	2.53	0.00	B2
2	B2	STA: 17+00.00 OFF: 34.00' LT	B2	1.76	0.39	15.00	6.72	4.55	0.00	4.55	0.0120		Super	24	0.02	0.015	40.02		MOCKINGBIRD LANE ROAD	68.24	25	0.24	12.0		12.0	0.28	16.31	20	1.23	100.0%	4.55	0.00	B4
2	B3	STA: 17+00.00 OFF: 35.00' RT	B3	0.53	0.99	10.00	8.10	4.26	0.00	4.26	0.0120		Super	24	0.02	0.015	40.02		MOCKINGBIRD LANE ROAD	68.24	25	0.23	11.7		12.0	0.27	15.69	20	1.27	100.0%	4.26	0.00	B5
2	B4	STA: 23+00.00 OFF: 34.00' LT	B4	0.61	0.99	10.00	8.10	4.89	0.00	4.89	0.0220		Super	24	0.02	0.015	54.19		MOCKINGBIRD LANE ROAD	60.84	25	0.22	11.0		12.0	0.25	19.46	20	1.03	100.0%	4.89	0.00	B6
2	B5	STA: 24+30.00 OFF: 35.00' RT	B5	0.75	0.99	10.00	8.10	6.01	0.00	6.01	0.0220		Super	24	0.02	0.015	54.19		MOCKINGBIRD LANE ROAD	82.08	25	0.24	11.9		12.0	0.27	21.91	20	0.91	98.8%	5.94	0.07	B8
2	B6	STA: 27+75.00 OFF: 34.00' LT	B6	0.67	0.99	10.00	8.10	5.38	0.00	5.38	0.0175		Super	24	0.02	0.015	48.33		MOCKINGBIRD LANE ROAD	110.13	25	0.24	11.9		12.0	0.28	19.52	20	1.02	100.0%	5.38	0.00	B7
2	B7	STA: 31+00.00 OFF: 34.00' LT	B7	0.39	0.77	10.00	8.10	2.41	0.00	2.41	0.0175		Super	24	0.02	0.015	48.33		MOCKINGBIRD LANE ROAD	99.04	25	0.18	8.8		12.0	0.20	12.31	15	1.22	100.0%	2.41	0.00	B9
2	B8	STA: 31+00.00 OFF: 34.50' RT	B8	0.67	0.99	10.00	8.10	5.35	0.07	5.43	0.0175		Super	24	0.02	0.015	48.33		MOCKINGBIRD LANE ROAD	99.04	25	0.24	12.0		12.0	0.28	19.63	20	1.02	100.0%	5.43	0.00	B10
2	B9	STA: 32+95.00 OFF: 34.00' LT	B9	0.39	0.99	10.00	8.10	3.11	0.00	3.11	0.0175	0.0205	Super	24	0.02	0.015	48.33	52.31	MOCKINGBIRD LANE ROAD	58.29	100	0.15	7.5	7.3	12.0	0.24	12.80	15	1.17	100.0%	3.11	0.00	
2	B10	STA: 32+95.00 OFF: 34.00' RT	B10	0.39	0.99	10.00	8.10	3.09	0.00	3.09	0.0175	0.0205	Super	24	0.02	0.015	48.33	52.31	MOCKINGBIRD LANE ROAD	58.29	100	0.15	7.5	7.3	12.0	0.24	12.76	15	1.18	100.0%	3.09	0.00	
2	B11	STA: 35+00.00 OFF:34.00' LT	B11	0.27	0.99	10.00	8.10	2.13	1.22	3.35	0.0175		Super	24	0.02	0.015	48.33		MOCKINGBIRD LANE ROAD	97.30	25	0.20	10.0		12.0	0.23	14.88	15	1.01	100.0%	3.35	0.00	B9
2	B12	STA: 35+00.00 OFF: 34.00' RT	B12	0.19	0.99	10.00	8.10	1.52	1.29	2.81	0.0175		Super	24	0.02	0.015	48.33		MOCKINGBIRD LANE ROAD	97.30	25	0.19	9.4		12.0	0.21	13.44	15	1.12	100.0%	2.81	0.00	B10
2	B13	STA: 37+50.00 OFF: 34.00' LT	B13	1.05	0.99	10.00	8.10	8.39	0.00	8.39	0.0410		Super	24	0.02	0.015	73.97		MOCKINGBIRD LANE ROAD	110.63	25	0.24	12.0		12.0	0.28	30.46	20	0.66	85.4%	7.16	1.22	B11
2	B14	STA: 36+80.00 OFF: 34.50' RT	B14	1.06	0.99	10.00	8.10	8.53	0.00	8.53	0.0410		Super	24	0.02	0.015	73.97		MOCKINGBIRD LANE ROAD	110.63	25	0.24	12.1		12.0	0.28	30.76	20	0.65	84.9%	7.24	1.29	B12

Plotted, By: 2026-08-21 13:05:18, Del Rosso, Austin
Last Saved: 2026-08-21 10:04:05 (INLET (SHEET 1 OF 6))
K:\Ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain calcs.dwg
Filename:

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS · MISTY D. CHRISTIAN · 98384 · LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

25-YR INLET CALCULATIONS - (SHEET 1 OF 3)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C3.06

25-YR CURB INLET CALCULATIONS CONTINUED

NOTE: INLETS SPREAD BASED ON SPREAD CRITERIA FOR 25-YEAR FLOW. 100-YR CURB INLETS INCLUDED FOR REFERENCE ONLY.

SYSTEM C

Inlet			Drainage Areas				25-year Intensity (in/hr)	25-year Runoff (cfs)	25-year Carryover Flow (cfs)	25-year Total Gutter Q (cfs)	"So" Street Long Slope (ft/ft)		Street Section (type)	F/F Pavement Width (ft)	S_x Cross Slope (ft/ft)	Manning's coefficient for pavement "n"	Street Capacity (cfs)		Street Name	Right-of-Way Capacity (cfs)	Design Storm	Depth of Flow "Yo"	Spread of Flow (Sp) (ft)		Allowable Spread (ft)	Pickup Per Foot Qo/Lo (cfs/ft)	Length required "Lo" (ft)	Length Provided "L" (ft)[3]	L/Lo	Inlet Efficiency	Inlet Interception (cfs)	25-year Carryover Flow "q" (cfs)	Bypass Target
Design Point	Inlet No.	Station, Offset	Area No.	Areas (acres)	Runoff "c"	Conc. Time (min.)					U/S (Sag)	D/S (Sag)					U/S (Sags)	D/S (Sags)				(ft)	U/S (Sags)	D/S (Sags)									
1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17		18	19	20	21	22		23	24	25	26	27	28	30	31	32
3	C0	STA: 54+40.00 OFF: 6.90' LT	C0	0.75	0.99	10.00	8.10	6.02	0.00	6.02	0.0215		Super	24	0.02	0.015	53.57		MOCKINGBIRD LANE ROAD	111.84	25	0.24	12.0		12.0	0.28	21.80	20	0.92	98.9%	5.95	0.07	C2
3	C1	STA: 54+40.00 OFF: 34.52' RT	C1	0.70	0.99	10.00	8.10	5.65	0.00	5.65	0.0215		Super	24	0.02	0.015	53.57		MOCKINGBIRD LANE ROAD	111.84	25	0.23	11.7		12.0	0.27	21.03	20	0.95	99.6%	5.62	0.02	C3
3	C2	STA: 56+15.00 OFF: 6.92' LT	C2	0.40	0.99	10.00	8.10	3.18	0.07	3.24	0.0108	0.0025	Super	24	0.02	0.015	37.88	18.27	MOCKINGBIRD LANE ROAD	40.15	100	0.15	7.6	11.8	12.0	0.29	11.33	15	1.32	100.0%	3.24	0.00	
3	C3	STA: 56+15.00 OFF: 34.51' RT	C3	0.32	0.99	10.00	8.10	2.58	0.02	2.61	0.0108	0.0025	Super	24	0.02	0.015	37.88	18.27	MOCKINGBIRD LANE ROAD	40.15	100	0.15	7.3	10.6	12.0	0.26	10.15	15	1.48	100.0%	2.61	0.00	
3	C4	STA: 58+25.00 OFF: 5.50' RT	C4	0.19	0.99	10.00	8.10	1.49	0.00	1.49	0.0050		Super	24	0.02	0.015	25.83		MOCKINGBIRD LANE ROAD	66.86	25	0.19	9.3		12.0	0.21	7.08	10	1.41	100.0%	1.49	0.00	C2
3	C5	STA: 58+25.00 OFF: 34.00' RT	C5	0.16	0.99	10.00	8.10	1.27	0.00	1.27	0.0050		Super	24	0.02	0.015	25.83		MOCKINGBIRD LANE ROAD	66.86	25	0.18	8.8		12.0	0.20	6.45	10	1.55	100.0%	1.27	0.00	C3
3	C6	STA: 60+00.00 OFF: 35.00' LT	C6	0.54	0.99	10.00	8.10	4.36	0.00	4.36	0.0170		Super	24	0.02	0.015	47.63		MOCKINGBIRD LANE ROAD	109.51	25	0.22	11.1		12.0	0.25	17.19	20	1.16	100.0%	4.36	0.00	C4
3	C7	STA: 60+00.00 OFF: 34.00' RT	C7	0.53	0.99	10.00	8.10	4.24	0.00	4.24	0.0170		Super	24	0.02	0.015	47.63		MOCKINGBIRD LANE ROAD	109.51	25	0.22	11.0		12.0	0.25	16.91	20	1.18	100.0%	4.24	0.00	C5

SYSTEM D

Inlet			Drainage Areas				25-year Intensity (in/hr)	25-year Runoff (cfs)	25-year Carryover Flow (cfs)	25-year Total Gutter Q (cfs)	"So" Street Long Slope (ft/ft)		Street Section (type)	F/F Pavement Width (ft)	S_x Cross Slope (ft/ft)	Manning's coefficient for pavement "n"	Street Capacity (cfs)		Street Name	Right-of-Way Capacity (cfs)	Design Storm	Depth of Flow "Yo"	Spread of Flow (Sp) (ft)		Allowable Spread (ft)	Pickup Per Foot Qo/Lo (cfs/ft)	Length required "Lo" (ft)	Length Provided "L" (ft)[3]	L/Lo	Inlet Efficiency	Inlet Interception (cfs)	25-year Carryover Flow "q" (cfs)	Bypass Target
Design Point	Inlet No.	Station, Offset	Area No.	Areas (acres)	Runoff "c"	Conc. Time (min.)					U/S (Sag)	D/S (Sag)					U/S (Sags)	D/S (Sags)				(ft)	U/S (Sags)	D/S (Sags)									
1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17		18	19	20	21	22		23	24	25	26	27	28	30	31	32
4	D0A	STA: 66+50.00 OFF: 34.00' RT	D0A	0.22	0.99	10.00	8.10	1.80	0.00	1.80	0.0050	0.0050	Super	24	0.02	0.015	25.83	25.83	MOCKINGBIRD LANE ROAD	87.44	100	0.20	10.1	7.5	12.0	0.23	7.92	10	1.26	100.0%	1.80	0.00	
4	D1A	STA: 66+50.00 OFF: 35.00' LT	D1A	0.23	0.99	10.00	8.10	1.80	0.00	1.80	0.0050	0.0050	Super	24	0.02	0.015	25.83	25.83	MOCKINGBIRD LANE ROAD	87.44	100	0.20	10.2	7.5	12.0	0.23	7.93	10	1.26	100.0%	1.80	0.00	
4	D0	STA: 68+80.00 OFF: 32.50' RT	D0	0.14	0.99	10.00	8.10	1.14	0.00	1.14	0.0050		Super	24	0.02	0.015	25.83		MOCKINGBIRD LANE ROAD	68.70	25	0.17	8.4		12.0	0.19	6.05	10	1.65	100.0%	1.14	0.00	
4	D1	STA: 68+80.00 OFF: 34.50' LT	D1	0.14	0.99	10.00	8.10	1.10	0.00	1.10	0.0050		Super	24	0.02	0.015	25.83		MOCKINGBIRD LANE ROAD	68.70	25	0.17	8.3		12.0	0.19	5.93	10	1.69	100.0%	1.10	0.00	
4	D2	STA: 77+25.00 OFF: 33.91' RT	D2	0.84	0.99	10.00	8.10	6.72	0.00	6.72	0.0275		Super	24	0.02	0.015	60.58		MOCKINGBIRD LANE ROAD	161.34	25	0.24	11.9		12.0	0.27	24.54	20	0.81	95.2%	6.40	0.32	D4
4	D3	STA: 77+25.00 OFF: 34.50' LT	D3	0.85	0.99	10.00	8.10	6.80	0.00	6.80	0.0275		Super	24	0.02	0.015	60.58		MOCKINGBIRD LANE ROAD	161.34	25	0.24	12.0		12.0	0.28	24.71	20	0.81	94.9%	6.46	0.34	D5
4	D4	STA: 80+60.00 OFF: 35.17' RT	D4	0.59	0.99	10.00	8.10	4.76	0.32	5.08	0.0025	0.0050	Super	24	0.02	0.015	18.27	25.83	MOCKINGBIRD LANE ROAD	38.72	100	0.26	13.2	11.2	12.0	0.46	11.06	15	1.36	100.0%	5.08	0.00	
4	D5	STA: 80+40.00 OFF: 34.50' LT	D5	0.53	0.99	10.00	8.10	4.27	0.34	4.61	0.0025	0.0050	Super	24	0.02	0.015	18.27	25.83	MOCKINGBIRD LANE ROAD	38.72	100	0.27	13.3	10.2	12.0	0.43	10.67	15	1.41	100.0%	4.61	0.00	

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026

STATE OF TEXAS — MISTY D. CHRISTIAN — 98384 — REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

25-YR INLET CALCULATIONS - (SHEET 2 OF 3)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C3.07

Plotted By: 2026-08-21 13:05:20, Del Rosso, Austin
Last Saved: 2026-08-21 10:04:05 (INLET (SHEET 2 OF 4))
K:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain calcs.dwg
Filename:

25-YR CURB INLET CALCULATIONS CONTINUED

SYSTEM E

NOTE: INLETS SPREAD BASED ON SPREAD CRITERIA FOR 25-YEAR FLOW. 100-YR CURB INLETS INCLUDED FOR REFERENCE ONLY.

Inlet			Drainage Areas				25-year Intensity (in/hr)	25-year Runoff (cfs)	25-year Carryover Flow (cfs)	25-year Total Gutter Q (cfs)	"So" Street Long Slope (ft/ft)		Street Section (type)	F/F Pavement Width (ft)	S_x Cross Slope (ft/ft)	Manning's coefficient for pavement "n"	Street Capacity (cfs)		Street Name	Right-of-Way Capacity (cfs)	Design Storm	Depth of Flow "Yo"	Spread of Flow (Sp) (ft)		Allowable Spread (ft)	Pickup Per Foot Qo/Lo (cfs/ft)	Length required "Lo" (ft)	Length Provided "L" (ft)[3]	L/Lo	Inlet Efficiency	Inlet Interception (cfs)	25-year Carryover Flow "q" (cfs)	Bypass Target
Design Point	Inlet No.	Station, Offset	Area No.	Areas (acres)	Runoff "c"	Conc. Time (min.)					U/S (Sag)	D/S (Sag)					U/S (Sags)	D/S (Sags)				(ft)	U/S (Sags)	D/S (Sags)									
1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17		18	19	20	21	22		23	24	25	26	27	28	30	31	32
5	E0	STA: 89+75.00 OFF: 34.00' RT	E0	0.69	0.99	10.00	8.10	5.55	0.00	5.55	0.0190		Super	24	0.02	0.015	50.36		MOCKINGBIRD LANE ROAD	140.42	25	0.24	11.9		12.0	0.27	20.25	20	0.99	100.0%	5.55	0.00	E2
5	E1	STA: 89+75.00 OFF: 34.29' LT	E1	0.69	0.99	10.00	8.10	5.57	0.00	5.57	0.0190		Super	24	0.02	0.015	50.36		MOCKINGBIRD LANE ROAD	140.42	25	0.24	11.9		12.0	0.27	20.29	20	0.99	100.0%	5.57	0.00	E3
5	E2	STA: 95+50.00 OFF: 34.00' RT	E2	0.65	0.99	10.00	8.10	5.18	0.00	5.18	0.0200		Super	24	0.02	0.015	51.67		MOCKINGBIRD LANE ROAD	110.36	25	0.23	11.5		12.0	0.26	19.69	20	1.02	100.0%	5.18	0.00	E4
5	E3	STA: 95+50.00 OFF: 34.79' LT	E3	0.52	0.99	10.00	8.10	4.14	0.00	4.14	0.0200		Super	24	0.02	0.015	51.67		MOCKINGBIRD LANE ROAD	110.36	25	0.21	10.5		12.0	0.24	17.31	20	1.16	100.0%	4.14	0.00	E5
5	E4	STA: 100+00.00 OFF: 32.50' RT	E4	1.51	0.72	15.00	6.72	7.27	0.00	7.27	0.0425		Super	24	0.02	0.015	75.31		MOCKINGBIRD LANE ROAD	80.37	25	0.23	11.3		12.0	0.26	28.30	20	0.71	89.0%	6.47	0.80	E6
5	E5	STA: 101+50.00 OFF: 25.79' LT	E5	0.57	0.99	10.00	8.10	4.55	0.00	4.55	0.0425		Super	24	0.02	0.015	75.31		MOCKINGBIRD LANE ROAD	86.18	25	0.19	9.5		12.0	0.21	21.61	20	0.93	99.1%	4.51	0.04	E7
5	E6	STA: 102+90.00 OFF: 12.00' RT	E6	0.71	0.99	10.00	8.10	5.72	0.80	6.52	0.0425		Super	24	0.02	0.015	75.31		MOCKINGBIRD LANE ROAD	104.82	25	0.22	10.9		12.0	0.25	26.57	20	0.75	91.9%	5.99	0.53	E7
5	E7	STA: 104+75.00 OFF: 26.00' LT	E7	0.72	0.99	10.00	8.10	5.81	0.57	6.38	0.0213	0.0175	Super	24	0.02	0.015	53.26	48.33	MOCKINGBIRD LANE ROAD	127.34	100	0.22	11.1	7.5	12.0	0.30	21.56	20	0.93	99.1%	6.33	0.06	

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026

STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

25-YR INLET CALCULATIONS - (SHEET 3 OF 3)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C3.08

Plotted, By: 2026-08-21 13:05:21, Del Rosso, Austin
Last Saved: 2026-08-21 10:04:05 (INLET (SHEET 3 OF 6))
k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain calcs.dwg
Filename:

100-YR CURB INLET CALCULATIONS

NOTE: INLETS SPREAD BASED ON SPREAD CRITERIA FOR 25-YEAR FLOW. 100-YR CURB INLETS INCLUDED FOR REFERENCE ONLY.

SYSTEM A

Inlet			Drainage Areas				100-year Intensity (in/hr)	100-year Runoff (cfs)	100-year Carryover Flow (cfs)	100-year Total Gutter Q (cfs)	"So" Street Long Slope (ft/ft)		Street Section (type)	F/F Pavement Width (ft)	S_x Cross Slope (ft/ft)	Manning's coefficient for pavement "n"	Street Capacity (cfs)		Street Name	Right-of-Way Capacity (cfs)	Design Storm	Depth of Flow "Yo" (ft)	Spread of Flow (Sp) (ft)		Allowable Spread (ft)	Pickup Per Foot Qo/Lo (cfs/ft)	E_o	S_e	Length required "Lo" (ft)	Length Provided "L" (ft)[3]	L/Lo	Inlet Efficiency	Inlet Interception (cfs)	100-year Carryover Flow "q" (cfs)	Bypass Target
Design Point	Inlet No.	Station, Offset	Area No.	Areas (acres)	Runoff "c"	Conc. Time (min.)					U/S (Sag)	D/S (Sag)					U/S (Sags)	D/S (Sags)					U/S (Sags)	D/S (Sags)											
1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17		18	19	20	21	22		23	24	HIDE	HIDE	25	26	27	28	30	31	32
1	A0	STA: 3+55.00 OFF: 34.50' RT	A0	0.37	1.13	10.00	10.14	4.18	0.30	4.48	0.0200		Super	24	0.02	0.015	51.67		MOCKINGBIRD LANE ROAD	85.61	25	0.22	10.9		12.0	0.25	0.33	0.092	18.11	15	0.83	95.8%	4.29	0.19	
1	A1	STA: 3+55.00 OFF: 6.50' LT	A1	0.37	1.13	10.00	10.14	4.25	0.31	4.56	0.0185		Super	24	0.02	0.015	49.69		MOCKINGBIRD LANE ROAD	85.61	25	0.22	11.1		12.0	0.25	0.32	0.091	17.98	15	0.83	96.1%	4.38	0.18	
1	A2	STA: 7+00.00 OFF: 34.50' RT	A2	0.52	1.13	10.00	10.14	5.89	0.00	5.89	0.0110		Super	24	0.02	0.015	38.32		MOCKINGBIRD LANE ROAD	87.27	25	0.27	13.5		12.0	0.32	0.27	0.080	18.55	15	0.81	94.9%	5.59	0.30	A0
1	A3	STA: 7+00.00 OFF: 34.50' LT	A3	0.52	1.13	10.00	10.14	5.93	0.00	5.93	0.0110		Crown	24	0.02	0.015	38.32		MOCKINGBIRD LANE ROAD	87.27	25	0.27	13.5		12.0	0.32	0.27	0.079	18.62	15	0.81	94.8%	5.62	0.31	A1

SYSTEM B

Inlet			Drainage Areas				100-year Intensity (in/hr)	100-year Runoff (cfs)	100-year Carryover Flow (cfs)	100-year Total Gutter Q (cfs)	"So" Street Long Slope (ft/ft)		Street Section (type)	F/F Pavement Width (ft)	S_x Cross Slope (ft/ft)	Manning's coefficient for pavement "n"	Street Capacity (cfs)		Street Name	Right-of-Way Capacity (cfs)	Design Storm	Depth of Flow "Yo" (ft)	Spread of Flow (Sp) (ft)		Allowable Spread (ft)	Pickup Per Foot Qo/Lo (cfs/ft)	E_o	S_e	Length required "Lo" (ft)	Length Provided "L" (ft)[3]	L/Lo	Inlet Efficiency	Inlet Interception (cfs)	100-year Carryover Flow "q" (cfs)	Bypass Target
Design Point	Inlet No.	Station, Offset	Area No.	Areas (acres)	Runoff "c"	Conc. Time (min.)					U/S (Sag)	D/S (Sag)					U/S (Sags)	D/S (Sags)					U/S (Sags)	D/S (Sags)											
1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17		18	19	20	21	22		23	24	HIDE	HIDE	25	26	27	28	30	31	32
2	B0	STA: 13+00.00 OFF: 34.00' LT	B0	1.05	0.44	15.00	8.36	3.84	0.00	3.84	0.0050		Super	24	0.02	0.015	25.83		MOCKINGBIRD LANE ROAD	54.46	25	0.27	13.3		12.0	0.32	0.27	0.080	12.16	10	0.82	95.5%	3.67	0.17	B1
2	B1	STA: 14+00.00 OFF: 34.00' LT	B1	0.98	0.44	15.00	8.36	3.58	0.17	3.75	0.0050		Super	24	0.02	0.015	25.83		MOCKINGBIRD LANE ROAD	53.93	25	0.26	13.2		12.0	0.31	0.28	0.081	12.00	10	0.83	96.0%	3.60	0.15	B2
2	B2	STA: 17+00.00 OFF: 34.00' LT	B2	1.76	0.44	15.00	8.36	6.44	0.15	6.59	0.0120		Super	24	0.02	0.015	40.02		MOCKINGBIRD LANE ROAD	68.24	25	0.28	13.8		12.0	0.33	0.26	0.078	20.15	20	0.99	100.0%	6.59	0.00	B4
2	B3	STA: 17+00.00 OFF: 35.00' RT	B3	0.53	1.13	10.00	10.14	6.05	0.00	6.05	0.0120		Super	24	0.02	0.015	40.02		MOCKINGBIRD LANE ROAD	68.24	25	0.27	13.4		12.0	0.32	0.27	0.080	19.20	20	1.04	100.0%	6.05	0.00	B5
2	B4	STA: 23+00.00 OFF: 34.00' LT	B4	0.90	1.13	10.00	10.14	10.27	0.00	10.27	0.0220		Super	24	0.02	0.015	54.19		MOCKINGBIRD LANE ROAD	60.84	25	0.29	14.6		12.0	0.35	0.25	0.075	29.76	20	0.67	86.6%	8.89	1.38	B6
2	B5	STA: 24+30.00 OFF: 35.00' RT	B5	0.75	1.13	10.00	10.14	8.61	0.00	8.61	0.0220		Super	24	0.02	0.015	54.19		MOCKINGBIRD LANE ROAD	82.08	25	0.27	13.6		12.0	0.32	0.27	0.079	26.90	20	0.74	91.4%	7.86	0.74	B7
2	B6	STA: 27+75.00 OFF: 34.00' LT	B6	0.67	1.13	10.00	10.14	7.65	0.00	7.65	0.0175		Super	24	0.02	0.015	48.33		MOCKINGBIRD LANE ROAD	110.13	25	0.27	13.6		12.0	0.32	0.27	0.079	23.89	20	0.84	96.2%	7.36	0.29	B12
2	B7	STA: 31+00.00 OFF: 34.00' LT	B7	0.39	0.88	10.00	10.14	3.43	1.38	4.81	0.0175		Super	24	0.02	0.015	48.33		MOCKINGBIRD LANE ROAD	99.04	25	0.23	11.4		12.0	0.26	0.31	0.089	18.30	15	0.82	95.4%	4.59	0.22	B8
2	B8	STA: 31+00.00 OFF: 34.50' RT	B8	0.67	1.13	10.00	10.14	7.62	0.74	8.36	0.0175		Super	24	0.02	0.015	48.33		MOCKINGBIRD LANE ROAD	99.04	25	0.28	14.1		12.0	0.33	0.26	0.077	25.13	20	0.80	94.3%	7.88	0.48	B9
2	B9	STA: 32+95.00 OFF: 34.00' LT	B9	0.39	1.13	10.00	10.14	4.42	0.83	5.24	0.0175	0.0205	Super	24	0.02	0.015	48.33	52.31	MOCKINGBIRD LANE ROAD	58.29	100	0.18	9.1	8.8	12.0	0.30	0.38	0.104	17.29	15	0.87	97.4%	5.11	0.14	
2	B10	STA: 32+95.00 OFF: 34.00' RT	B10	0.39	1.13	10.00	10.14	4.40	0.83	5.23	0.0175	0.0205	Super	24	0.02	0.015	48.33	52.31	MOCKINGBIRD LANE ROAD	58.29	100	0.18	9.1	8.8	12.0	0.30	0.38	0.104	17.26	15	0.87	97.4%	5.09	0.13	
2	B11	STA: 35+00.00 OFF:34.00' LT	B11	0.27	1.13	10.00	10.14	3.02	2.99	6.01	0.0175		Super	24	0.02	0.015	48.33		MOCKINGBIRD LANE ROAD	97.30	25	0.25	12.4		12.0	0.29	0.29	0.084	20.81	15	0.72	89.9%	5.41	0.61	B9
2	B12	STA: 35+00.00 OFF: 34.00' RT	B12	0.19	1.13	10.00	10.14	2.17	3.10	5.26	0.0175		Super	24	0.02	0.015	48.33		MOCKINGBIRD LANE ROAD	97.30	25	0.24	11.8		12.0	0.27	0.30	0.087	19.29	15	0.78	93.3%	4.91	0.35	B10
2	B13	STA: 37+50.00 OFF: 34.00' LT	B13	1.05	1.13	10.00	10.14	11.93	0.00	11.93	0.0410		Super	24	0.02	0.015	73.97		MOCKINGBIRD LANE ROAD	110.63	25	0.27	13.7		12.0	0.32	0.27	0.079	37.27	20	0.54	75.0%	8.94	2.99	B11
2	B14	STA: 36+80.00 OFF: 34.50' RT	B14	1.06	1.13	10.00	10.14	12.13	0.00	12.13	0.0410		Super	24	0.02	0.015	73.97		MOCKINGBIRD LANE ROAD	110.63	25	0.28	13.8		12.0	0.32	0.26	0.078	37.63	20	0.53	74.5%	9.03	3.10	B12

Plotted, By: 2026-08-21 13:05:23, Del Rosso, Austin
Last Saved: 2026-08-21 10:04:05 (INLET (SHEET 4 OF 6))
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain calcs.dwg

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

100-YR INLET CALCULATIONS - (SHEET 1 OF 3)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C3.09

100-YR CURB INLET CALCULATIONS CONTINUED

NOTE: INLETS SPREAD BASED ON SPREAD CRITERIA FOR 25-YEAR FLOW. 100-YR CURB INLETS INCLUDED FOR REFERENCE ONLY.

SYSTEM C

Inlet			Drainage Areas				100-year Intensity (in/hr)	100-year Runoff (cfs)	100-year Carryover Flow (cfs)	100-year Total Gutter Q (cfs)	"So" Street Long Slope (ft/ft)		Street Section (type)	F/F Pavement Width (ft)	S_x Cross Slope (ft/ft)	Manning's coefficient for pavement "n"	Street Capacity (cfs)		Street Name	Right-of-Way Capacity (cfs)	Design Storm	Depth of Flow "Yo"	Spread of Flow (Sp) (ft)		Allowable Spread (ft)	Pickup Per Foot Qo/Lo (cfs/ft)	E_o	S_e	Length required "Lo" (ft)	Length Provided "L" $(ft)^3$	L/Lo	Inlet Efficiency	Inlet Interception (cfs)	100-year Carryover Flow "q" (cfs)	Bypass Target
Design Point	Inlet No.	Station, Offset	Area No.	Areas (acres)	Runoff "c"	Conc. Time (min.)					U/S (Sag)	D/S (Sag)					U/S (Sags)	D/S (Sags)				(ft)	U/S (Sags)	D/S (Sags)										
1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17		18	19	20	21	22		23	24	HIDE	HIDE	25	26	27	28	30	31	32
3	C0	STA: 54+40.00 OFF: 6.90' LT	C0	0.75	1.13	10.00	10.14	8.56	0.00	8.56	0.0215		Super	24	0.02	0.015	53.57		MOCKINGBIRD LANE ROAD	111.84	25	0.27	13.7		12.0	0.32	0.27	0.079	26.68	20	0.75	91.7%	7.85	0.71	C2
3	C1	STA: 54+40.00 OFF: 34.52' RT	C1	0.70	1.13	10.00	10.14	8.04	0.00	8.04	0.0215		Super	24	0.02	0.015	53.57		MOCKINGBIRD LANE ROAD	111.84	25	0.27	13.3		12.0	0.31	0.27	0.080	25.73	20	0.78	93.3%	7.50	0.54	C3
2	C2	STA: 56+15.00 OFF: 6.92' LT	C2	0.40	1.13	10.00	10.14	4.52	0.71	5.23	0.0108	0.0025	Super	24	0.02	0.015	37.88	18.27	MOCKINGBIRD LANE ROAD	40.15	100	0.18	9.1	14.1	12.0	0.35	0.38	0.104	14.89	15	1.01	100.0%	5.23	0.00	
2	C3	STA: 56+15.00 OFF: 34.51' RT	C3	0.32	1.13	10.00	10.14	3.68	0.54	4.21	0.0108	0.0025	Super	24	0.02	0.015	37.88	18.27	MOCKINGBIRD LANE ROAD	40.15	100	0.17	8.7	12.7	12.0	0.32	0.40	0.107	13.36	15	1.12	100.0%	4.21	0.00	
3	C4	STA: 58+25.00 OFF: 5.50' RT	C4	0.19	1.13	10.00	10.14	2.13	0.03	2.15	0.0050		Super	24	0.02	0.015	25.83		MOCKINGBIRD LANE ROAD	66.86	25	0.21	10.7		12.0	0.25	0.33	0.093	8.73	10	1.15	100.0%	2.15	0.00	C2
3	C5	STA: 58+25.00 OFF: 34.00' RT	C5	0.16	1.13	10.00	10.14	1.81	0.01	1.82	0.0050		Super	24	0.02	0.015	25.83		MOCKINGBIRD LANE ROAD	66.86	25	0.20	10.1		12.0	0.23	0.35	0.097	7.93	10	1.26	100.0%	1.82	0.00	C3
3	C6	STA: 60+00.00 OFF: 35.00' LT	C6	0.54	1.13	10.00	10.14	6.20	0.00	6.20	0.0170		Super	24	0.02	0.015	47.63		MOCKINGBIRD LANE ROAD	109.51	25	0.25	12.6		12.0	0.29	0.29	0.083	21.04	20	0.95	99.6%	6.17	0.03	C4
3	C7	STA: 60+00.00 OFF: 34.00' RT	C7	0.53	1.13	10.00	10.14	6.03	0.00	6.03	0.0170		Super	24	0.02	0.015	47.63		MOCKINGBIRD LANE ROAD	109.51	25	0.25	12.5		12.0	0.29	0.29	0.084	20.70	20	0.97	99.8%	6.01	0.01	C5

SYSTEM D

Inlet			Drainage Areas				100-year Intensity (in/hr)	100-year Runoff (cfs)	100-year Carryover Flow (cfs)	100-year Total Gutter Q (cfs)	"So" Street Long Slope (ft/ft)		Street Section (type)	F/F Pavement Width (ft)	S_x Cross Slope (ft/ft)	Manning's coefficient for pavement "n"	Street Capacity (cfs)		Street Name	Right-of-Way Capacity (cfs)	Design Storm	Depth of Flow "Yo"	Spread of Flow (Sp) (ft)		Allowable Spread (ft)	Pickup Per Foot Qo/Lo (cfs/ft)	E_o	S_e	Length required "Lo" (ft)	Length Provided "L" $(ft)^3$	L/Lo	Inlet Efficiency	Inlet Interception (cfs)	100-year Carryover Flow "q" (cfs)	Bypass Target
Design Point	Inlet No.	Station, Offset	Area No.	Areas (acres)	Runoff "c"	Conc. Time (min.)					U/S (Sag)	D/S (Sag)					U/S (Sags)	D/S (Sags)				(ft)	U/S (Sags)	D/S (Sags)										
1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17		18	19	20	21	22		23	24	HIDE	HIDE	25	26	27	28	30	31	32
4	D0A	STA: 66+50.00 OFF: 34.00' RT	D0A	0.22	1.13	10.00	10.14	2.56	0.01	2.57	0.0050	0.0050	Super	24	0.02	0.015	25.83	25.83	MOCKINGBIRD LANE ROAD	87.44	100	0.18	9.1	8.6	12.0	0.29	0.38	0.104	8.79	10	1.14	100.0%	2.57	0.00	
4	D1A	STA: 66+50.00 OFF: 35.00' LT	D1A	0.23	1.13	10.00	10.14	2.57	0.00	2.57	0.0050	0.0050	Super	24	0.02	0.015	25.83	25.83	MOCKINGBIRD LANE ROAD	87.44	100	0.18	9.1	8.5	12.0	0.29	0.38	0.104	8.78	10	1.14	100.0%	2.57	0.00	
4	D0	STA: 68+80.00 OFF: 32.50' RT	D0	0.14	1.13	10.00	10.14	1.62	0.00	1.62	0.0050		Super	24	0.02	0.015	25.83		MOCKINGBIRD LANE ROAD	68.70	25	0.19	9.6		12.0	0.22	0.36	0.100	7.41	10	1.35	100.0%	1.62	0.00	D2
4	D1	STA: 68+80.00 OFF: 34.50' LT	D1	0.14	1.13	10.00	10.14	1.56	0.00	1.56	0.0050		Super	24	0.02	0.015	25.83		MOCKINGBIRD LANE ROAD	68.70	25	0.19	9.5		12.0	0.22	0.37	0.101	7.26	10	1.38	100.0%	1.56	0.00	D3
4	D2	STA: 77+25.00 OFF: 33.91' RT	D2	0.84	1.13	10.00	10.14	9.56	0.00	9.56	0.0275		Super	24	0.02	0.015	60.58		MOCKINGBIRD LANE ROAD	161.34	25	0.27	13.6		12.0	0.32	0.27	0.079	30.03	20	0.67	86.1%	8.23	1.33	D4
4	D3	STA: 77+25.00 OFF: 34.50' RT	D3	0.85	1.13	10.00	10.14	9.68	0.00	9.68	0.0275		Super	24	0.02	0.015	60.58		MOCKINGBIRD LANE ROAD	161.34	25	0.27	13.7		12.0	0.32	0.27	0.079	30.24	20	0.66	85.8%	8.30	1.38	D5
4	D4	STA: 80+60.00 OFF: 35.17' RT	D4	0.59	1.13	10.00	10.14	6.76	1.33	8.09	0.0025	0.0050	Super	24	0.02	0.015	18.27	25.83	MOCKINGBIRD LANE ROAD	38.72	100	0.31	15.7	13.4	12.0	0.56	0.24	0.072	14.44	15	1.04	100.0%	8.09	0.00	
4	D5	STA: 80+40.00 OFF: 34.50' LT	D5	0.53	1.13	10.00	10.14	6.07	1.38	7.45	0.0025	0.0050	Super	24	0.02	0.015	18.27	25.83	MOCKINGBIRD LANE ROAD	38.72	100	0.32	15.9	12.2	12.0	0.53	0.23	0.071	14.03	15	1.07	100.0%	7.45	0.00	

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS · KRISTY D. CHRISTIAN · 98384 · REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

100-YR INLET CALCULATIONS - (SHEET 2 OF 3)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C3.10

Plotted, By: 2026-08-21 13:05:24, Del Rosso, Austin
Last Saved: 2026-08-21 10:04:05 (INLET (SHEET 5 OF 6))
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain calcs.dwg

100-YR CURB INLET CALCULATIONS CONTINUED

NOTE: INLETS SPREAD BASED ON SPREAD CRITERIA FOR 25-YEAR FLOW. 100-YR CURB INLETS INCLUDED FOR REFERENCE ONLY.

SYSTEM E

Inlet			Drainage Areas				100-year Intensity (in/hr)	100-year Runoff (cfs)	100-year Carryover Flow (cfs)	100-year Total Gutter Q (cfs)	"So" Street Long Slope (ft/ft)		Street Section (type)	F/F Pavement Width (ft)	S_x Cross Slope (ft/ft)	Manning's coefficient for pavement "n"	Street Capacity (cfs)		Street Name	Right-of-Way Capacity (cfs)	Design Storm	Depth of Flow "Yo"	Spread of Flow (Sp) (ft)		Allowable Spread (ft)	Pickup Per Foot Qo/Lo (cfs/ft)	E_o	S_e	Length required "Lo" (ft)	Length Provided "L" (ft^3)	L/Lo	Inlet Efficiency	Inlet Interception (cfs)	100-year Carryover Flow "q" (cfs)	Bypass Target
Design Point	Inlet No.	Station, Offset	Area No.	Areas (acres)	Runoff "c"	Conc. Time (min.)					U/S (Sag)	D/S (Sag)					U/S (Sags)	D/S (Sags)				(ft)	U/S (Sags)	D/S (Sags)			HIDE	HIDE							
1	2	3	4	5	6	7	8	9	10	11	12		13	14	15	16	17		18	19	20	21	22		23	24	HIDE	HIDE	25	26	27	28	30	31	32
5	E0	STA: 89+75.00 OFF: 34.00' RT	E0	0.69	1.13	10.00	10.14	7.90	0.00	7.90	0.0190		Super	24	0.02	0.015	50.36		MOCKINGBIRD LANE ROAD	140.42	25	0.27	13.6		12.0	0.32	0.27	0.079	24.79	20	0.81	94.8%	7.49	0.41	E2
5	E1	STA: 89+75.00 OFF: 34.29' LT	E1	0.69	1.13	10.00	10.14	7.92	0.00	7.92	0.0190		Super	24	0.02	0.015	50.36		MOCKINGBIRD LANE ROAD	140.42	25	0.27	13.6		12.0	0.32	0.27	0.079	24.83	20	0.81	94.8%	7.51	0.42	E3
5	E2	STA: 95+50.00 OFF: 34.00' RT	E2	0.65	1.13	10.00	10.14	7.37	0.41	7.78	0.0200		Super	24	0.02	0.015	51.67		MOCKINGBIRD LANE ROAD	110.36	25	0.27	13.4		12.0	0.31	0.27	0.080	24.85	20	0.80	94.7%	7.37	0.41	E4
5	E3	STA: 95+50.00 OFF: 34.79' LT	E3	0.52	1.13	10.00	10.14	5.89	0.42	6.30	0.0200		Super	24	0.02	0.015	51.67		MOCKINGBIRD LANE ROAD	110.36	25	0.25	12.3		12.0	0.29	0.29	0.084	22.03	20	0.91	98.6%	6.22	0.09	E5
5	E4	STA: 100+00.00 OFF: 32.50' RT	E4	1.51	0.81	15.00	8.36	10.28	0.41	10.69	0.0425		Super	24	0.02	0.015	75.31		MOCKINGBIRD LANE ROAD	80.37	25	0.26	13.1		12.0	0.30	0.28	0.081	35.29	20	0.57	77.8%	8.32	2.37	E6
5	E5	STA: 101+50.00 OFF: 25.79' LT	E5	0.57	1.13	10.00	10.14	6.47	0.09	6.56	0.0425		Super	24	0.02	0.015	75.31		MOCKINGBIRD LANE ROAD	86.18	25	0.22	10.9		12.0	0.25	0.33	0.092	26.67	20	0.75	91.8%	6.02	0.54	E7
5	E6	STA: 102+90.00 OFF: 12.00' RT	E6	0.71	1.13	10.00	10.14	8.13	2.37	10.51	0.0425		Super	24	0.02	0.015	75.31		MOCKINGBIRD LANE ROAD	104.82	25	0.26	13.0		12.0	0.30	0.28	0.081	34.94	20	0.57	78.3%	8.23	2.28	E7
5	E7	STA: 104+75.00 OFF: 26.00' LT	E7	0.72	1.13	10.00	10.14	8.27	2.82	11.09	0.0213	0.0175	Super	24	0.02	0.015	53.26	48.33	MOCKINGBIRD LANE ROAD	127.34	100	0.27	13.6	9.2	12.0	0.37	0.27	0.079	29.59	20	0.68	86.8%	9.63	1.46	

DROP INLETS

Drop inlet calculations - 100 year		
OS1A		
A	8.08	acres
Q100	63.33	cfs
d	1	ft
Size	4	ft

Drop inlet calculations - 100 year		
OS5B		
A	7.52	acres
Q100	39.29	cfs
d	1	ft
Size	4	ft

Drop inlet calculations - 100 year		
OS3		
A	7.14	acres
Q100	55.97	cfs
d	1	ft
Size	5	ft

Drop inlet calculations - 100 year		
OS4		
A	6.83	acres
Q100	53.53	cfs
d	1	ft
Size	5	ft

OPEN BACK INLET

Open Back Inlet Calculations - 100 year		
OS1B		
A	5.65	acres
Q100	44.31	cfs
d	1	ft
Size	15	ft

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

100-YR INLET CALCULATIONS - (SHEET 3 OF 3)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C3.11

Plotted By: 2026-08-21 13:05:26, Del Rosso, Austin
Last Saved: 2026-08-21 10:04:05 (INLET (SHEET 6 OF 6))
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain calcs.dwg

25-YR HYDRAULIC CALCULATIONS

SYSTEM A

From	To	Pipe Length	Drainage Area Incremental No.	Drainage Area Incremental Area	Drainage Area Total Area	Runoff "c"	C*Ca (25-year)	Incr. cA	Total cA	Time of Concentration Inlet	Time of Concentration Travel	Time of Concentration Total	25-year Intensity	100-year Intensity	Q25 Runoff	Q100 Runoff	Inlet bypass	Design Storm	Q pipe	Pipe Size Diameter	n	Sf	HGL U/S	HGL D/S	Head Loss Calculations V1 (in)	V2 (out)	$V1^2/2g$	$V2^2/2g$	Kj	$KjV1^2/2G$	Hk	Design HGL	Invert Elev. From	Invert Elev. To	T/C Elev.
		ft		acres	acres					min.	min.	min.	in/hr	in/hr	cfs	cfs	cfs		cfs	In.		ft/ft	Elev.	Elev.	ft/s	ft/s	ft	ft		ft	ft	Elev.	ft	ft	ft
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
SYSTEM A																																			
INLET A3 MOCKINGBIRD LANE STA: 7+00.00, 34.50' LT INSTALL 15' TXDOT I-COB INLET RE: TXDOT DETAILS 5.5' DEEP INLET T/C = 765.40 THROAD ELEVATION AT BACK OF INLET = 763.51	MOCKINGBIRD LANE STA: 6+83.75, 24.50' LT INSTALL 24" 45° BEND	14.68	A3+OS1B	6.17	6.17	0.81	0.84	5.18	5.18	15.00	0.02	15.02	6.72	8.36	34.80	43.30	-	25	34.80	24.00	0.013	0.0236	763.71	763.36	-	11.078	-	1.906	1.25	-	2.38	766.09	759.90	759.57	765.40
MOCKINGBIRD LANE STA: 6+83.75, 24.50' LT INSTALL 24" 45° BEND	MOCKINGBIRD LANE STA 6+61.12, 24.50' LT INSTALL 1 - 4' TYPE A JUNCTION BOX RE: CITY STANDARD DETAILS RIM = 764.64	22.18	-	-	6.17	-	-	-	5.18	15.02	0.03	15.06	6.72	8.36	34.80	43.30	-	25	34.80	24.00	0.013	0.0236	762.60	762.08	11.078	11.078	1.906	1.906	0.60	1.14	0.76	763.36	759.57	758.02	
FUTURE INLET A2 MOCKINGBIRD LANE STA: 7+00.00, 34.50' RT FUTURE 15' RECESSED CURB INLET RE: CITY STANDARD DETAILS T/C = 765.41 4.5' DEEP	MOCKINGBIRD LANE STA 6+61.12, 24.50' LT INSTALL 1 - 4' TYPE A JUNCTION BOX RE: CITY STANDARD DETAILS RIM = 764.64	67.19	A2	0.52	0.52	0.90	0.99	0.51	0.51	10.00	0.48	10.48	8.10	10.14	4.14	5.19	-	25	4.14	18.00	0.013	0.0016	762.18	762.08	-	2.345	-	0.085	1.25	-	0.11	762.29	760.90	758.27	765.40
MOCKINGBIRD LANE STA 6+61.12, 24.50' LT INSTALL 1 - 4' TYPE A JUNCTION BOX RE: CITY STANDARD DETAILS RIM = 764.64	MOCKINGBIRD LANE STA: 5+03.31, 24.50' LT BEGIN HORIZONTAL CURVE & VERTICAL BEND	161.41	-	-	6.69	-	-	-	5.69	15.06	0.35	15.40	6.72	8.36	38.24	47.57	-	25	38.24	30.00	0.013	0.0087	761.98	760.57	11.078	7.790	1.906	0.942	0.60	1.14	0.10	762.08	757.77	755.75	
MOCKINGBIRD LANE STA: 5+03.31, 24.50' LT BEGIN HORIZONTAL CURVE & VERTICAL BEND	MOCKINGBIRD LANE STA: 3+39.82, 24.50' LT INSTALL 30"X18" 60° WYE	163.49	-	-	6.69	-	-	-	5.69	15.40	0.35	15.75	6.72	8.36	38.24	47.57	-	25	38.24	30.00	0.013	0.0087	760.20	758.78	7.790	7.790	0.942	0.942	0.60	0.57	0.38	760.57	755.75	754.44	
INLET A1 MOCKINGBIRD LANE STA: 3+55.00, 6.50' LT INSTALL 15' RECESSED CURB INLET RE: CITY STANDARD DETAILS T/C = 760.86 5.5' DEEP	MOCKINGBIRD LANE STA: 3+39.82, 24.50' LT INSTALL 30"X18" 60° WYE	21.36	A1	0.37	0.37	0.90	0.99	0.37	0.37	10.69	0.21	10.90	8.10	10.14	2.99	3.74	-	25	2.99	18.00	0.013	0.0008	758.79	758.78	1.662	1.690	0.043	0.044	1.25	0.05	0.10	758.89	755.36	754.94	760.86
MOCKINGBIRD LANE STA: 3+39.82, 24.50' LT INSTALL 30"X18" 60° WYE	MOCKINGBIRD LANE STA: 3+16.15, 24.50' LT INSTALL 30"X18" 60° WYE	23.67	-	-	7.06	-	-	-	6.06	15.75	0.05	15.80	6.72	8.36	40.72	50.65	-	25	40.72	30.00	0.013	0.0098	758.27	758.04	7.790	8.295	0.942	1.068	0.60	0.57	0.50	758.78	754.44	754.25	
INLET A0 MOCKINGBIRD LANE STA: 3+55.00, 34.50' RT INSTALL 15' RECESSED CURB INLET RE: CITY STANDARD DETAILS T/C = 759.68 4.0' DEEP	MOCKINGBIRD LANE STA: 3+16.15, 24.50' LT INSTALL 30"X18" 60° WYE	68.70	A0	0.37	0.37	0.90	0.99	0.36	0.36	10.00	0.69	10.69	8.10	10.14	2.94	3.68	-	25	2.94	18.00	0.013	0.0008	758.09	758.04	-	1.662	-	0.043	1.25	-	0.10	758.19	755.68	754.75	759.68
MOCKINGBIRD LANE STA: 3+16.15, 24.50' LT INSTALL 30"X18" 60° WYE	MOCKINGBIRD LANE STA: 2+68.34, 24.50' LT INSTALL 30° 45° BEND	47.81	-	-	7.43	-	-	-	6.42	15.80	0.09	15.89	6.72	8.36	43.15	53.69	-	25	43.15	30.00	0.013	0.0111	757.48	756.95	8.295	8.791	1.068	1.200	0.60	0.64	0.56	758.04	754.25	753.87	
MOCKINGBIRD LANE STA: 2+68.34, 24.50' LT INSTALL 30" 45° BEND	MOCKINGBIRD LANE STA: 2+62.70, 18.87' LT CONTRACTOR TO LOCATE EX 36" RCP IN FIELD AND CONNECT PROP 30" RCP TO EX PIPE INSTALL 36"X30" 45° WYE	7.97	-	-	7.43	-	-	-	6.42	15.80	0.02	15.81	6.72	8.36	43.15	53.69	-	25	43.15	30.00	0.013	0.0111	756.39	756.31	8.295	8.791	1.068	1.200	0.60	0.64	0.56	756.95	753.87	753.81	
MOCKINGBIRD LANE STA: 2+90.00, 53.00' LT PROP 1 - 4' STANDARD WYE INLET THROAT ELEV = 757.75	MOCKINGBIRD LANE STA: 2+68.34, 53.00' LT INSTALL 30° 45° BEND	19.66	OS1A	8.08	8.08	0.75	0.83	6.67	6.67	15.00	0.04	15.04	6.72	8.36	44.80	55.73	-	25	44.80	30.00	0.013	0.0119	757.80	757.56	-	9.126	-	1.293	1.25	-	1.62	759.41	755.02	754.57	759.02
MOCKINGBIRD LANE STA: 2+68.34, 53.00' LT INSTALL 30" 45° BEND	MOCKINGBIRD LANE STA: 2+62.89, 47.56' LT CONTRACTOR TO LOCATE EX 36" RCP IN FIELD AND CONNECT PROP 30" RCP TO EX 36" STORM DRAIN LINE INSTALL 36"X30" 45° WYE	7.70	-	-	8.08	-	-	-	6.67	15.04	0.01	15.05	6.72	8.36	44.80	55.73	-	25	44.80	30.00	0.013	0.0119	756.99	756.90	8.791	9.126	1.200	1.293	0.60	0.72	0.57	757.56	754.57	754.40	

Plotted, By: 2026-08-21 13:05:27, Del Rosso, Austin
Last Saved: 2026-08-21 10:04:05 (HYDRAULIC (SHEET 1 OF 10))
Filename: k:\fw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain calcs.dwg

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

SYSTEM A HYDRAULIC CALCULATIONS - (SHEET 1 OF 10)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C3.12

25-YR HYDRAULIC CALCULATIONS CONTINUED

SYSTEM B

From	To	Pipe Length	Drainage Area			Runoff "c"	C*Ca (25-year)	Incr. cA	Total cA	Time of Concentration			25-year Intensity	100-year Intensity	Q25 Runoff	Q100 Runoff	Inlet bypass	Design Storm	Q pipe	Pipe Size Diameter	n	Sf	HGL		Head Loss Calculations							Design HGL	Invert Elev.		T/C Elev.
			Incremental		Total Area					Inlet	Travel	Total											U/S	D/S	V1 (in)	V2 (out)	$V1^2/2g$	$V2^2/2g$	KJ	$KJV1^2/2G$	Hk		From	To	
			No.	Area																														
		ft		acres	acres					min.	min.	min.	in/hr	in/hr	cfs	cfs	cfs		cfs	In.		ft/ft	Elev.	Elev.	ft/s	ft/s	ft	ft		ft	ft	Elev.	ft	ft	ft
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
SYSTEM B																																			
INLET B0 MOCKINGBIRD LANE STA: 13+00.00, 32.50' LT INSTALL 10' TYPE II RECESSED CURB INLET RE: STORM DETAILS T/C = 769.84 4.5' DEEP	MOCKINGBIRD LANE STA: 13+07.50, 24.50' LT INSTALL 24" 45° BEND	7.78	B0	1.05	1.05	0.35	0.39	0.40	0.40	15.00	0.15	15.15	6.72	8.36	2.71	3.38	-	25	2.71	24.00	0.013	0.0001	765.60	765.20	-	0.864	-	0.012	1.25	-	0.10	765.70	765.34	764.66	769.84
MOCKINGBIRD LANE STA: 13+07.50, 24.50' LT INSTALL 24" 45° BEND	MOCKINGBIRD LANE STA: 14+05.18, 24.50' LT INSTALL 24"X18" 60° WYE	97.67	-	-	1.05	-	-	-	0.40	15.15	1.96	17.11	6.45	8.02	2.60	3.24	-	25	2.60	24.00	0.013	0.0001	765.10	764.21	0.864	0.829	0.012	0.011	0.60	0.01	0.10	765.20	764.66	763.53	
INLET B1 MOCKINGBIRD LANE STA: 14+00.00, 32.50' LT INSTALL 10' TYPE II RECESSED CURB INLET RE: STORM DETAILS T/C = 769.34 4.5' DEEP	MOCKINGBIRD LANE STA: 14+05.18, 24.50' LT INSTALL 24"X18" 60° WYE	6.35	B1	0.98	0.98	0.35	0.39	0.38	0.38	15.00	0.07	15.07	6.72	8.36	2.53	3.15	-	25	2.53	18.00	0.013	0.0006	765.08	764.21	-	1.432	-	0.032	1.25	-	0.10	765.18	764.84	763.78	769.34
MOCKINGBIRD LANE STA: 14+05.18, 24.50' LT INSTALL 24"X18" 60° WYE	MOCKINGBIRD LANE STA: 17+10.18, 24.50' LT INSTALL 24"X18" 60° WYE	305.00	-	-	2.03	-	-	-	0.78	17.11	3.39	20.51	6.03	7.51	4.71	5.86	-	25	4.71	24.00	0.013	0.0004	764.11	760.95	1.432	1.499	0.032	0.035	0.60	0.02	0.10	764.21	763.53	760.03	
INLET B2 MOCKINGBIRD LANE STA: 17+00.00, 32.50' LT INSTALL 20' TYPE II RECESSED CURB INLET RE: STORM DETAILS T/C = 766.09 5.0' DEEP	MOCKINGBIRD LANE STA: 17+10.18, 24.50' LT INSTALL 24"X18" 60° WYE	6.35	B2	1.76	1.76	0.35	0.39	0.68	0.68	15.00	0.04	15.04	6.72	8.36	4.55	5.66	-	25	4.55	18.00	0.013	0.0019	761.44	760.95	-	2.577	-	0.103	1.25	-	0.13	761.57	761.09	760.28	766.09
MOCKINGBIRD LANE STA: 17+10.18, 24.50' LT INSTALL 24"X18" 60° WYE	MOCKINGBIRD LANE STA: 17+41.35, 24.50' LT PROP 1 - 4' TYPE A JUNCTION BOX RIM = 759.668	31.18	-	-	3.79	-	-	-	1.46	20.51	0.19	20.69	6.03	7.51	8.80	10.95	-	25	8.80	24.00	0.013	0.0015	760.85	760.65	2.577	2.800	0.103	0.122	0.60	0.06	0.10	760.95	760.03	759.67	
FUTURE INLET B3 MOCKINGBIRD LANE STA: 17+00.00, 32.50' RT 20' RECESSED CURB INLET RE: CITY STANDARD DETAILS T/C = 766.09 4.5' DEEP	MOCKINGBIRD LANE STA: 17+41.35, 24.50' LT PROP 1 - 4' TYPE A JUNCTION BOX RIM = 759.668	68.70	B3	0.53	0.53	0.90	0.99	0.53	0.53	10.00	0.48	10.48	8.10	10.14	4.26	5.33	-	25	4.26	18.00	0.013	0.0016	762.10	760.65	-	2.408	-	0.090	1.25	-	0.11	762.21	761.59	759.92	766.09
MOCKINGBIRD LANE STA: 17+41.35, 24.50' LT PROP 1 - 4' TYPE A JUNCTION BOX RIM = 759.668	MOCKINGBIRD LANE STA: 23+10.17, 24.51' LT INSTALL 24"X18" 60° WYE	568.82	-	-	4.32	-	-	-	1.98	20.69	2.67	23.36	5.62	6.99	11.15	13.87	-	25	11.15	24.00	0.013	0.0024	760.53	752.09	2.800	3.549	0.122	0.196	0.60	0.07	0.12	760.65	759.67	750.85	
INLET B4 MOCKINGBIRD LANE STA: 23+00.00, 32.50' LT INSTALL 20' TYPE II RECESSED CURB INLET RE: STORM DETAILS T/C = 756.39 4.5' DEEP	MOCKINGBIRD LANE STA: 23+10.17, 24.51' LT INSTALL 24"X18" 60° WYE	6.34	B4	0.90	0.90	0.90	0.99	0.89	0.89	10.00	0.03	10.03	8.10	10.14	7.22	9.04	-	25	7.22	18.00	0.013	0.0047	752.33	752.09	-	4.085	-	0.259	1.25	-	0.32	752.65	751.89	751.10	756.39
MOCKINGBIRD LANE STA: 23+10.17, 24.51' LT INSTALL 24"X18" 60° WYE	MOCKINGBIRD LANE STA: 24+71.36, 24.51' LT INSTALL 24"X18" 60° WYE	161.19	-	-	5.22	-	-	-	2.87	23.36	0.52	23.88	5.62	6.99	16.16	20.11	-	25	16.16	24.00	0.013	0.0051	751.83	748.96	4.085	5.144	0.259	0.411	0.60	0.16	0.26	752.09	750.85	747.47	
FUTURE INLET B5 MOCKINGBIRD LANE STA: 24+30.00, 32.50' RT 20' RECESSED CURB INLET RE: CITY STANDARD DETAILS T/C = 753.69 4.5' DEEP	MOCKINGBIRD LANE STA: 24+71.36, 24.51' LT INSTALL 24"X18" 60° WYE	68.15	B5	0.75	0.75	0.90	0.99	0.75	0.75	10.00	0.33	10.33	8.10	10.14	6.05	7.57	-	25	6.05	18.00	0.013	0.0033	749.84	748.96	-	3.424	-	0.182	1.25	-	0.23	750.06	749.19	747.72	753.69
MOCKINGBIRD LANE STA: 24+71.36, 24.51' LT INSTALL 24"X18" 60° WYE	MOCKINGBIRD LANE STA 27+85.00, 24.51' LT PROP 1 - 4' TYPE A JUNCTION BOX RIM = 746.53	313.64	-	-	5.97	-	-	-	3.62	23.88	0.83	24.71	5.48	6.82	19.86	24.72	-	25	19.86	24.00	0.013	0.0077	748.59	742.31	5.144	6.322	0.411	0.621	0.60	0.25	0.37	748.96	747.47	740.88	
INLET B6 MOCKINGBIRD LANE STA: 27+75.00, 34.50' LT INSTALL 20' TYPE II RECESSED CURB INLET RE: STORM DETAILS T/C = 747.16 5.0' DEEP	MOCKINGBIRD LANE STA 27+85.00, 24.51' LT PROP 1 - 4' TYPE A JUNCTION BOX RIM = 746.53	4.03	B6	0.67	0.67	0.90	0.99	0.66	0.66	10.00	0.02	10.02	8.10	10.14	5.38	6.73	-	25	5.38	18.00	0.013	0.0026	742.47	742.31	-	3.043	-	0.144	1.25	-	0.18	742.65	742.16	741.13	747.16
MOCKINGBIRD LANE STA 27+85.00, 24.51' LT PROP 1 - 4' TYPE A JUNCTION BOX RIM = 746.53	MOCKINGBIRD LANE STA: 30+60.18, 24.50' LT VERTICAL BEND	275.06	-	-	6.64	-	-	-	4.29	24.71	0.63	25.34	5.35	6.65	22.91	28.51	-	25	22.91	24.00	0.013	0.0102	741.86	731.51	6.322	7.294	0.621	0.826	0.60	0.37	0.45	742.31	740.88	729.19	

Plotted, By: 2026-08-21 13:05:28, Del Rosso, Austin
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain calcs.dwg (HYDRAULIC (SHEET 2 OF 10))
Filename: 2026-08-21 10:04:05

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

SYSTEM B HYDRAULIC CALCULATIONS - (SHEET 2 OF 10)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C3.13

25-YR HYDRAULIC CALCULATIONS CONTINUED

SYSTEM B CONTINUED

From	To	Pipe Length	Drainage Area			Runoff "c"	C*Ca (25-year)	Incr. cA	Total cA	Time of Concentration			25-year Intensity	100-year Intensity	Q25 Runoff	Q100 Runoff	Inlet bypass	Design Storm	Q pipe	Pipe Size Diameter	n	Sf	HGL		Head Loss Calculations							Design HGL	Invert Elev.		T/C Elev.
			Incremental		Total Area					Inlet	Travel	Total											U/S	D/S	V1 (in)	V2 (out)	$V1^2/2g$	$V2^2/2g$	Kj	$KjV1^2/2G$	Hk		From	To	
		ft	No.	Area acres	acres					min.	min.	min.	in/hr	in/hr	cfs	cfs	cfs		cfs	In.		ft/ft	Elev.	Elev.	ft/s	ft/s	ft	ft		ft	ft	Elev.	ft	ft	ft
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
SYSTEM B																																			
MOCKINGBIRD LANE STA: 30+60.18, 24.50' LT VERTICAL BEND	MOCKINGBIRD LANE STA: 31+10.18, 24.50' LT INSTALL 30"X18" 60° WYE	47.50	-	-	6.64	-	-	-	4.29	25.34	0.17	25.51	5.35	6.65	22.91	28.51	-	25	22.91	24.00	0.013	0.0042	731.41	731.21	7.294	4.668	0.826	0.338	0.60	0.50	0.10	731.51	728.19	727.95	
INLET B7 MOCKINGBIRD LANE STA: 31+00.00, 32.50' LT INSTALL 15' TYPE II RECESSED CURB INLET RE: STORM DETAILS T/C = 736.31 5.5' DEEP	MOCKINGBIRD LANE STA: 31+10.18, 24.50' LT INSTALL 30"X18" 60° WYE	6.35	B7	0.39	0.39	0.70	0.77	0.30	0.30	10.00	0.08	10.08	8.10	10.14	2.41	3.02	-	25	2.41	18.00	0.013	0.0005	731.21	731.21	-	1.363	-	0.029	1.25	-	0.10	731.31	730.81	728.20	736.31
MOCKINGBIRD LANE STA: 31+10.18, 24.50' LT INSTALL 30"X18" 60° WYE	MOCKINGBIRD LANE STA: 31+41.35, 24.50' LT INSTALL 36"X18" 60° WYE	33.68	-	-	7.03	-	-	-	4.58	25.51	0.11	25.62	5.35	6.65	24.50	30.49	-	25	24.50	30.00	0.013	0.0036	731.03	730.91	4.668	4.992	0.338	0.387	0.60	0.20	0.18	731.21	727.70	727.53	
FUTURE INLET B8 MOCKINGBIRD LANE STA: 31+00.00, 32.50' RT 20' RECESSED CURB INLET RE: CITY STANDARD DETAILS T/C = 736.31 4.5' DEEP	MOCKINGBIRD LANE STA: 31+41.35, 24.50' LT INSTALL 36"X18" 60° WYE	68.70	B8	0.67	0.67	0.90	0.99	0.66	0.66	10.00	0.38	10.38	8.10	10.14	5.35	6.70	-	25	5.35	18.00	0.013	0.0026	732.28	730.91	-	3.030	-	0.143	1.25	-	0.18	732.46	731.81	728.03	736.31
MOCKINGBIRD LANE STA: 31+41.35, 24.50' LT INSTALL 36"X18" 60° WYE	MOCKINGBIRD LANE STA: 33+02.68, 24.50' LT INSTALL 36"X18" 60° WYE	161.32	-	-	7.70	-	-	-	5.24	25.62	0.70	26.32	5.21	6.48	27.32	33.99	-	25	27.32	36.00	0.013	0.0017	730.81	730.54	4.992	3.865	0.387	0.232	0.60	0.23	0.10	730.91	727.28	726.48	
INLET B9 MOCKINGBIRD LANE STA: 32+95.00, 32.50' LT INSTALL 15' TYPE II RECESSED CURB INLET RE: STORM DETAILS T/C = 733.79 4.5' DEEP	MOCKINGBIRD LANE STA: 33+02.68, 24.50' LT INSTALL 36"X18" 60° WYE	6.36	B9	0.39	0.39	0.90	0.99	0.38	0.38	10.00	0.06	10.06	8.10	10.14	3.11	3.89	-	25	3.11	18.00	0.013	0.0009	730.54	730.54	-	1.758	-	0.048	1.25	-	0.10	730.64	729.29	727.23	733.79
MOCKINGBIRD LANE STA: 33+02.68, 24.50' LT INSTALL 36"X18" 60° WYE	MOCKINGBIRD LANE STA: 33+28.73, 24.50' LT CONNECT PROP 36" RCP TO PROP 9'X4' RCB	26.05	-	-	8.08	-	-	-	5.63	26.32	0.10	26.42	5.21	6.48	29.32	36.48	-	25	29.32	36.00	0.013	0.0019	730.41	730.36	3.865	4.147	0.232	0.267	0.60	0.14	0.13	730.54	726.48	726.35	
INLET B13 MOCKINGBIRD LANE STA: 37+50.00, 32.50' LT INSTALL 20' TYPE II RECESSED CURB INLET RE: STORM DETAILS T/C = 745.53 5.5' DEEP	MOCKINGBIRD LANE STA: 36+37.50, 24.50' LT INSTALL 24" 45° BEND	7.78	B13	1.05	1.05	0.90	0.99	1.04	1.04	10.00	0.05	10.05	8.10	10.14	8.39	10.50	-	25	8.39	24.00	0.013	0.0014	740.49	739.93	-	2.669	-	0.111	1.25	-	0.14	740.63	740.03	739.29	745.53
MOCKINGBIRD LANE STA: 36+37.50, 24.50' LT INSTALL 24" 45° BEND	MOCKINGBIRD LANE STA: 36+38.64, 24.50' LT INSTALL 24"X18" 60° WYE	98.86	-	-	1.05	-	-	-	1.04	10.05	0.62	10.67	8.10	10.14	8.39	10.50	-	25	8.39	24.00	0.013	0.0014	739.83	735.51	2.669	2.669	0.111	0.111	0.60	0.07	0.10	739.93	739.29	734.35	
FUTURE INLET B14 MOCKINGBIRD LANE STA: 36+80.00, 32.50' RT 20' RECESSED CURB INLET RE: CITY STANDARD DETAILS T/C = 742.66 4.5' DEEP	MOCKINGBIRD LANE STA: 36+38.64, 24.50' LT INSTALL 24"X18" 60° WYE	68.71	B14	1.06	1.06	0.90	0.99	1.05	1.05	10.00	0.24	10.24	8.10	10.14	8.53	10.68	-	25	8.53	18.00	0.013	0.0066	738.77	735.51	-	4.826	-	0.362	1.25	-	0.45	739.22	738.16	734.60	742.66
MOCKINGBIRD LANE STA: 36+38.64, 24.50' LT INSTALL 24"X18" 60° WYE	MOCKINGBIRD LANE STA: 34+92.32, 24.50' LT INSTALL 24"X18" 60° WYE	146.32	-	-	2.11	-	-	-	2.09	10.67	0.47	11.13	7.82	9.78	16.34	20.43	-	25	16.34	24.00	0.013	0.0052	735.31	732.31	4.826	5.200	0.362	0.420	0.60	0.22	0.20	735.51	734.35	730.98	
INLET B11 MOCKINGBIRD LANE STA: 35+00.00, 32.50' LT 15' TYPE II RECESSED CURB INLET RE: CITY STANDARD DETAILS T/C = 736.29 4.5' DEEP	MOCKINGBIRD LANE STA: 34+92.32, 24.50' LT INSTALL 24"X18" 60° WYE	6.34	B11	0.27	0.27	0.90	0.99	0.26	0.26	10.00	0.09	10.09	8.10	10.14	2.13	2.66	-	25	2.13	18.00	0.013	0.0004	732.31	732.31	-	1.203	-	0.022	1.25	-	0.10	732.41	731.79	731.23	736.29
MOCKINGBIRD LANE STA: 34+92.32, 24.50' LT INSTALL 24"X18" 60° WYE	MOCKINGBIRD LANE STA: 33+77.64, 24.50' LT CONNECT PROP 24" RCP TO PROP 9'X4' RCB	114.69	-	-	2.37	-	-	-	2.35	11.13	0.33	11.46	7.82	9.78	18.39	23.00	-	25	18.39	24.00	0.013	0.0066	732.02	730.36	5.200	5.854	0.420	0.532	0.60	0.25	0.28	732.31	730.98	728.35	
FUTURE INLET B10 MOCKINGBIRD LANE STA: 32+95.00, 32.50' RT 15' TYPE II RECESSED CURB INLET RE: CITY STANDARD DETAILS T/C = 733.79 4.5' DEEP	MOCKINGBIRD LANE STA: 33+13.95, 32.25' RT FUTURE CONNECTION: CONNECT PROP 18" RCP TO PROP 9'X4' RCB	11.45	B10	0.39	0.39	0.90	0.99	0.38	0.38	10.00	0.11	10.11	8.10	10.14	3.09	3.87	-	25	3.09	18.00	0.013	0.0009	729.97	729.96	-	1.749	-	0.048	1.25	-	0.10	730.07	729.29	728.52	733.79
FUTURE INLET B12 MOCKINGBIRD LANE STA: 35+00.00, 32.50' RT 15' TYPE II RECESSED CURB INLET RE: STANDARD CITY DETAILS T/C = 736.29 4.5' DEEP	MOCKINGBIRD LANE STA: 33+62.86, 32.25' RT FUTURE CONNECTION: CONNECT PROP 18" RCP TO PROP 9'X4' RCB	128.97	B12	0.19	0.19	0.90	0.99	0.19	0.19	10.00	2.68	12.68	7.55	9.43	1.42	1.77	-	25	1.42	18.00	0.013	0.0002	732.07	729.96	-	0.803	-	0.010	1.25	-	0.10	732.17	731.79	728.52	736.29

Plotted, By: 2026-08-21 13:05:29, Del Rosso, Austin
Last Saved: 2026-08-21 10:04:05 (HYDRAULIC (SHEET 3 OF 10))
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain calcs.dwg

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS — MISTY D. CHRISTIAN — 98384 — REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

SYSTEM B HYDRAULIC CALCULATIONS - (SHEET 3 OF 10)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C3.14

25-YR HYDRAULIC CALCULATIONS CONTINUED SYSTEM C

From	To	Pipe Length	Drainage Area: Incremental No.	Drainage Area: Incremental Area	Drainage Area: Total Area	Runoff "c"	C*Ca (25-year)	Incr. cA	Total cA	Time of Concentration: Inlet	Time of Concentration: Travel	Time of Concentration: Total	25-year Intensity	100-year Intensity	Design Frequency	Q25 Runoff	Q100 Runoff	Inlet bypass	Design Storm	Q pipe	Pipe Size Diameter	Width	Height	R	n	Sf	HGL: U/S	HGL: D/S	Head Loss Calculations: V1 (in)	V2 (out)	$V1^2/2g$	$V2^2/2g$	Kj	$KjV1^2/2G$	Hk	Design HGL	Invert Elev.: From	Invert Elev.: To	T/C Elev.
		ft		acres	acres					min.	min.	min.	in/hr	in/hr	Years	cfs	cfs	cfs		cfs	In.					ft/ft	Elev.	Elev.	ft/s	ft/s	ft	ft		ft	ft	Elev.	ft	ft	ft
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	21a	21b	21c	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
SYSTEM C																																							
INLET C0 MOCKINGBIRD LANE STA: 54+40.00, 6.90' LT INSTALL 20' TYPE II RECESSED CURB INLET RE: STORM DETAILS T/C = 769.14 5.5' DEEP	MOCKINGBIRD LANE STA: 54+50.00, 16.50' LT INSTALL 24" 60° BEND	6.39	C0	0.75	0.75	0.90	0.99	0.74	0.74	10.00	0.06	10.06	8.10	10.14	25	6.02	7.53	-	25	6.02	24.00				0.013	0.0007	765.60	765.60	-	1.915	-	0.057	1.25	-	0.10	765.70	763.64	763.03	769.14
MOCKINGBIRD LANE STA: 54+50.00, 16.50' LT INSTALL 24" 60° BEND	MOCKINGBIRD LANE STA: 54+75.41, 16.50' LT INSTALL 24"X18" 60° WYE	25.80	-	-	0.75	-	-	-	0.74	10.06	0.22	10.28	8.10	10.14	25	6.02	7.53	-	25	6.02	24.00				0.013	0.0007	765.50	765.48	1.915	1.915	0.057	0.057	0.60	0.03	0.10	765.60	763.03	762.39	
INLET C1 MOCKINGBIRD LANE STA: 54+40.00, 34.52' RT INSTALL 20' RECESSED CURB INLET RE: CITY STANDARD DETAILS T/C = 767.84 4.5' DEEP	MOCKINGBIRD LANE STA: 54+75.41, 16.50' LT INSTALL 24"X18" 60° WYE	58.58	C1	0.70	0.70	0.90	0.99	0.70	0.70	10.00	0.31	10.31	8.10	10.14	25	5.65	7.07	-	25	5.65	18.00				0.013	0.0029	765.65	765.48	-	3.197	-	0.159	1.25	-	0.20	765.85	763.34	762.64	767.84
MOCKINGBIRD LANE STA: 54+75.41, 16.50' LT INSTALL 24"X18" 60° WYE	MOCKINGBIRD LANE STA 56+21.37, 16.49' LT INSTALL 1 - 4' TYPE A JUNCTION BOX RE: CITY STANDARD DETAILS RIM = 766.39	148.20	-	-	1.45	-	-	-	1.44	10.31	0.67	10.97	8.10	10.14	25	11.67	14.61	-	25	11.67	24.00				0.013	0.0027	765.36	764.97	3.197	3.714	0.159	0.214	0.60	0.10	0.12	765.48	762.39	758.68	
INLET C2 MOCKINGBIRD LANE STA: 56+15.00, 6.92' LT INSTALL 15' TYPE II RECESSED CURB INLET RE: STORM DETAILS T/C = 766.72 5.5' DEEP	MOCKINGBIRD LANE STA 56+21.37, 16.49' LT INSTALL 1 - 4' TYPE A JUNCTION BOX RE: CITY STANDARD DETAILS RIM = 766.39	5.89	C2	0.40	0.40	0.90	0.99	0.39	0.39	10.00	0.05	10.05	8.10	10.14	25	3.18	3.98	-	25	3.18	24.00				0.013	0.0006	764.97	764.97	-	1.797	-	0.050	1.25	-	0.10	765.07	761.22	759.18	766.72
INLET OS3 MOCKINGBIRD LANE STA: 56+15.00, 62.48' LT INSTALL: (1) 5'X5' WYE INLET RE: CITY STANDARD DETAILS THROAT ELEVATION AT BACK OF INLET = 764.08	MOCKINGBIRD LANE STA 56+18.60, 37.16' LT INSTALL VERTICAL BEND	25.60	OS3	7.14	7.14	0.75	0.83	5.89	5.89	15.00	0.03	15.03	6.72	8.36	25	39.59	49.26	-	25	39.59	24.00				0.013	0.0306	766.04	765.26	-	12.603	-	2.466	1.25	-	3.08	769.12	763.70	763.51	767.20
MOCKINGBIRD LANE STA 56+18.60, 37.16' LT INSTALL VERTICAL BEND	MOCKINGBIRD LANE STA 56+21.37, 16.49' LT INSTALL 1 - 4' TYPE A JUNCTION BOX RE: CITY STANDARD DETAILS RIM = 766.39	18.22	-	-	7.14	-	-	-	5.89	15.03	0.04	15.08	6.72	8.36	25	39.59	49.26	-	25	39.59	24.00				0.013	0.0104	765.16	764.97	12.603	7.344	2.466	0.837	0.60	1.48	0.10	765.26	763.51	758.68	
MOCKINGBIRD LANE STA 56+21.37, 16.49' LT INSTALL 1 - 4' TYPE A JUNCTION BOX RE: CITY STANDARD DETAILS RIM = 766.39	MOCKINGBIRD LANE STA: 56+49.35, 16.50' LT INSTALL 36"X18" 60° WYE	28.41	-	-	8.99	-	-	-	7.72	15.08	0.06	15.14	6.72	8.36	25	51.91	64.58	-	25	51.91	36.00				0.013	0.0061	764.63	764.46	7.344	7.344	0.837	0.837	0.60	0.50	0.33	764.97	758.68	758.54	
INLET C3 MOCKINGBIRD LANE STA: 56+15.00, 34.51' RT INSTALL 15' RECESSED CURB INLET RE: CITY STANDARD DETAILS T/C = 767.20 4.5' DEEP	MOCKINGBIRD LANE STA: 56+49.35, 16.50' LT INSTALL 36"X18" 60° WYE	59.32	C3	0.32	0.32	0.90	0.99	0.32	0.32	10.00	0.68	10.68	8.10	10.14	25	2.58	3.23	-	25	2.58	18.00				0.013	0.0006	764.50	764.46	-	1.462	-	0.033	1.25	-	0.10	764.60	762.70	759.29	767.20
MOCKINGBIRD LANE STA: 56+49.35, 16.50' LT INSTALL 36"X18" 60° WYE	MOCKINGBIRD LANE STA: 56+80.27, 16.50' LT INSTALL 36"X24" 45° WYE	31.39	-	-	9.32	-	-	-	8.04	15.14	0.07	15.21	6.72	8.36	25	54.05	67.24	-	25	54.05	36.00				0.013	0.0066	764.05	763.85	7.344	7.647	0.837	0.908	0.60	0.50	0.41	764.46	758.54	758.38	767.20
INLET OS4 MOCKINGBIRD LANE STA: 56+65.00, 72.69' LT INSTALL: (1) 5'X5' WYE INLET RE: CITY STANDARD DETAILS THROAT ELEV = 762.49 5.5' DEEP	MOCKINGBIRD LANE STA: 56+65.51, 34.31' LT INSTALL VERTICAL BEND	40.64	OS4	6.83	6.83	0.75	0.83	5.64	5.64	15.03	0.06	15.09	6.72	8.36	25	37.87	47.11	-	25	37.87	24.00				0.013	0.0280	766.49	765.36	-	12.054	-	2.256	1.25	-	2.82	769.31	762.61	762.35	765.61
MOCKINGBIRD LANE STA: 56+65.51, 34.31' LT INSTALL VERTICAL BEND	MOCKINGBIRD LANE STA: 56+80.27, 16.50' LT INSTALL 36"X24" 45° WYE	21.65	-	-	6.83	-	-	-	5.64	15.09	0.03	15.12	6.72	8.36	25	37.87	47.11	-	25	37.87	24.00				0.013	0.0280	764.45	763.85	12.054	12.054	2.256	2.256	0.60	1.35	0.90	765.36	762.35	758.88	767.20
MOCKINGBIRD LANE STA: 56+80.27, 16.50' LT INSTALL 36"X24" 45° WYE	MOCKINGBIRD LANE STA: 56+90.38, 16.50' LT END HORIZONTAL BEND	10.26	-	-	16.15	-	-	-	13.68	15.21	0.01	15.22	6.72	8.36	25	91.92	114.35	-	25	91.92	36.00				0.013	0.0190	762.58	762.38	12.054	13.004	2.256	2.626	0.60	1.35	1.27	763.85	758.38	758.33	
MOCKINGBIRD LANE STA: 56+90.38, 16.50' LT END HORIZONTAL BEND	MOCKINGBIRD LANE STA: 57+09.36, 16.50' LT CONNECT PROP 36" RCP TO PROP 8'X5' RCB	18.99	-	-	16.15	-	-	-	13.68	15.22	0.02	15.25	6.72	8.36	25	91.92	114.35	-	25	91.92	36.00				0.013	0.0190	761.33	760.05	13.004	13.004	2.626	2.626	0.60	1.58	1.05	762.38	758.33	758.24	
WYE INLET OS5B MOCKINGBIRD LANE STA: 61+65.00, 52.42' LT INSTALL 1 - 4' STANDARD WYE INLET RE: CITY STANDARD DETAILS THROAT ELEV = 774.00 3.5' DEEP	MOCKINGBIRD LANE STA: 61+31.08, 16.50' LT INSTALL 24" 45° BEND	47.97	OS5B	7.52	7.52	0.50	0.55	4.14	4.14	15.00	0.09	15.09	6.72	8.36	25	27.79	34.58	-	25	27.79	24.00				0.013	0.0151	771.58	770.00	-	8.847	-	1.215	1.25	-	1.52	773.10	770.50	768.34	774.00
MOCKINGBIRD LANE STA: 61+31.08, 16.50' LT INSTALL 24" 45° BEND	MOCKINGBIRD LANE STA: 59+82.20, 16.50' LT INSTALL 24"X18" 60° WYE	148.88	-	-	7.52	-	-	-	4.14	15.09	0.28	15.37	6.72	8.36	25	27.79	34.58	-	25	27.79	24.00				0.013	0.0151	769.52	765.27	8.847	8.847	1.215	1.215	0.60	0.73	0.49	770.00	768.34	763.13	

Plotted, By: 2026-08-21 13:05:31, Del Rosso, Austin
Last Saved: 2026-08-21 10:04:05 (HYDRAULIC (SHEET 4 OF 10))
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain calcs.dwg

Kimley»Horn
807 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

SYSTEM C HYDRAULIC CALCULATIONS - (SHEET 4 OF 10)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C3.15

25-YR HYDRAULIC CALCULATIONS CONTINUED

SYSTEM C CONTINUED

From	To	Pipe Length	Drainage Area Incremental No.	Drainage Area Incremental Area	Drainage Area Total Area	Runoff "c"	C*Ca (25-year)	Incr. cA	Total cA	Time of Concentration Inlet	Time of Concentration Travel	Time of Concentration Total	25-year Intensity	100-year Intensity	Design Frequency	Q25 Runoff	Q100 Runoff	Inlet bypass	Design Storm	Q pipe	Pipe Size Diameter	Width	Height	R	n	Sf	HGL U/S	HGL D/S	Head Loss Calculations V1 (in)	Head Loss Calculations V2 (out)	Head Loss Calculations $V1^2/2g$	Head Loss Calculations $V2^2/2g$	Head Loss Calculations Kj	Head Loss Calculations $KjV1^2/2G$	Head Loss Calculations Hk	Design HGL	Invert Elev. From	Invert Elev. To	T/C Elev.
		ft		acres	acres					min.	min.	min.	in/hr	in/hr	Years	cfs	cfs	cfs		cfs	In.					ft/ft	Elev.	Elev.	ft/s	ft/s	ft	ft		ft	ft	Elev.	ft	ft	ft
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	21a	21b	21c	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
SYSTEM C																																							
INLET C6 MOCKINGBIRD LANE STA: 60+00.00, 35.00' LT INSTALL 20' RECESSED CURB INLET RE: STANDARD CITY DETAILS T/C = 769.93 4.5' DEEP	MOCKINGBIRD LANE STA: 59+82.20, 16.50' LT INSTALL 24"X18" 60° WYE	21.42	C6	0.54	0.54	0.90	0.99	0.54	0.54	10.00	0.14	10.14	8.10	10.14	25	4.36	5.45	-	25	4.36	18.00				0.013	0.0017	765.79	765.27	-	2.465	-	0.094	1.25	-	0.12	765.91	765.43	763.38	769.93
MOCKINGBIRD LANE STA: 59+82.20, 16.50' LT INSTALL 24"X18" 60° WYE	MOCKINGBIRD LANE STA 59+67.59, 16.50' LT INSTALL 1 - 4' TYPE A JUNCTION BOX RE: CITY STANDARD DETAILS RIM = 769.02	14.62	-	-	8.06	-	-	-	4.67	15.37	0.02	15.40	6.72	8.36	25	31.41	39.07	-	25	31.41	24.00				0.013	0.0193	764.45	764.17	8.847	9.997	1.215	1.552	0.60	0.73	0.82	765.27	763.13	762.62	
INLET C7 MOCKINGBIRD LANE STA: 60+00.00, 34.00' RT INSTALL 20' TYPE II RECESSED CURB INLET RE: STORM DETAILS T/C = 769.44 4.5' DEEP	MOCKINGBIRD LANE STA 59+67.59, 16.50' LT INSTALL 1 - 4' TYPE A JUNCTION BOX RE: CITY STANDARD DETAILS RIM = 769.02	51.25	C7	0.53	0.53	0.90	0.99	0.52	0.52	10.00	0.36	10.36	8.10	10.14	25	4.24	5.30	-	25	4.24	18.00				0.013	0.0016	765.41	764.17	-	2.397	-	0.089	1.25	-	0.11	765.52	764.94	763.12	769.44
MOCKINGBIRD LANE STA 59+67.59, 16.50' LT INSTALL 1 - 4' TYPE A JUNCTION BOX RE: CITY STANDARD DETAILS RIM = 769.02	MOCKINGBIRD LANE STA: 58+50.14, 16.50' LT CONNECT PROP 30" RCP TO PROP 8'X3' RCB INSTALL: (1) TXDOT DETAIL BC-ECD	117.45	-	-	8.59	-	-	-	5.20	15.40	0.28	15.67	6.72	8.36	25	34.92	43.44	-	25	34.92	30.00				0.013	0.0072	764.07	762.13	9.997	7.114	1.552	0.786	0.60	0.93	0.10	764.17	762.62	760.56	
MOCKINGBIRD LANE STA: 58+50.14, 16.50' LT CONNECT PROP 30" RCP TO PROP 8'X3' RCB INSTALL: (1) TXDOT DETAIL BC-ECD	MOCKINGBIRD LANE STA: 58+42.72, 16.50' LT CONNECT 4'X3' RCB TO 8'X3' RCB INSTALL: (1) COM MANHOLE LID (1) TXDOT DETAIL MI-B&R (FTW) (1) TXDOT DETAIL MI-CBC (FTW)	7.42		-	8.59	-	-	-	5.20	15.67	0.07	15.74	6.72	8.36	25	34.92	43.44	-	100	43.44		8.00	3.00	1.091	0.013	0.0002	762.03	762.03	7.114	1.810	0.786	0.051	1.25	0.98	0.10	762.13	760.56	760.43	
LAT-OS5A MOCKINGBIRD LANE STA: 58+42.72, 49.89' LT	MOCKINGBIRD LANE STA: 58+42.72, 45.89' LT VERTICAL BEND	4.00	OS5A	33.63	33.63	0.50	0.55	18.50	18.50	15.00	0.21	15.21	6.72	8.36	25	124.29	154.62	-	100	154.62		4.00	3.00	0.857	0.013	0.0000	767.40	765.48	-	0.310	-	0.001	1.25	-	0.10	767.50	764.40	764.36	768.01
MOCKINGBIRD LANE STA: 58+42.72, 45.89' LT VERTICAL BEND	MOCKINGBIRD LANE STA: 58+42.72, 29.17' LT VERTICAL BEND	16.73	-	-	33.63	-	-	-	18.50	15.21	0.92	16.13	6.58	8.19	25	121.75	151.47	-	100	151.47		4.00	3.00	0.857	0.013	0.0000	765.38	763.61	0.310	0.304	0.001	0.001	0.60	0.00	0.10	765.48	764.36	760.51	
MOCKINGBIRD LANE STA: 58+42.72, 29.17' LT VERTICAL BEND	MOCKINGBIRD LANE STA: 58+42.72, 16.50' LT CONNECT 4'X3' RCB TO 8'X3' RCB INSTALL: (1) COM MANHOLE LID (1) TXDOT DETAIL MI-B&R (FTW) (1) TXDOT DETAIL MI-CBC (FTW)	8.00	-	-	33.63	-	-	-	18.50	16.13	0.44	16.57	6.58	8.19	25	121.75	151.47	-	100	151.47		4.00	3.00	0.857	0.013	0.0000	763.51	762.03	0.304	0.304	0.001	0.001	0.60	0.00	0.10	763.61	760.51	760.43	
MOCKINGBIRD LANE STA: 58+42.72, 16.50' LT CONNECT 4'X3' RCB TO 8'X3' RCB INSTALL: (1) COM MANHOLE LID (1) TXDOT DETAIL MI-B&R (FTW) (1) TXDOT DETAIL MI-CBC (FTW)	MOCKINGBIRD LANE STA: 58+12.90, 16.50' LT CONNECT 18" RCP TO 8'X3' RCB	29.82	-	-	42.22	-	-	-	23.69	16.57	0.26	16.83	6.58	8.19	25	155.96	194.02	-	100	194.02		8.00	3.00	1.091	0.013	0.0003	761.93	761.51	0.304	1.925	0.001	0.058	0.60	0.00	0.10	762.03	760.43	759.91	
INLET C4 MOCKINGBIRD LANE STA: 58+25.00, 5.50' RT INSTALL 10' TYPE II RECESSED CURB INLET RE: CITY STANDARD DETAILS T/C = 767.43 4.5' DEEP	MOCKINGBIRD LANE STA: 58+12.90, 16.50' LT CONNECT 18" RCP TO 8'X3' RCB	14.82	C4	0.19	0.19	0.90	0.99	0.18	0.18	10.00	0.29	10.29	8.10	10.14	25	1.49	1.87	-	25	1.49	18.00				0.013	0.0002	763.13	761.51	-	0.846	-	0.011	1.25	-	0.10	763.23	762.93	760.66	767.43
MOCKINGBIRD LANE STA: 58+12.90, 16.50' LT CONNECT 18" RCP TO 8'X3' RCB	MOCKINGBIRD LANE STA: 57+96.15, 16.50' LT CONNECT 18" RCP TO 8'X3' RCB	16.74	-	-	42.41	-	-	-	23.88	16.83	0.14	16.97	6.58	8.19	25	157.17	195.54	-	100	195.54		8.00	3.00	1.091	0.013	0.0003	761.41	761.22	1.925	1.988	0.058	0.061	0.60	0.03	0.10	761.51	759.91	759.62	
INLET C5 MOCKINGBIRD LANE STA: 58+25.00, 34.00' RT INSTALL 10' TYPE II RECESSED CURB INLET RE: STORM DETAILS T/C = 766.85 4.5' DEEP	MOCKINGBIRD LANE STA: 57+96.15, 16.50' LT CONNECT 18" RCP TO 8'X3' RCB	48.31	C5	0.16	0.16	0.90	0.99	0.16	0.16	10.00	1.16	11.16	7.82	9.78	25	1.23	1.54	-	25	1.23	18.00				0.013	0.0001	762.59	761.22	-	0.695	-	0.007	1.25	-	0.10	762.69	762.35	760.37	766.85
MOCKINGBIRD LANE STA: 57+96.15, 16.50' LT CONNECT 18" RCP TO 8'X3' RCB	MOCKINGBIRD LANE STA: 57+17.36, 16.50' LT CONNECT PROP 8'X3' RCP TO PROP 8'X3' RCB	78.79	-	-	42.56	-	-	-	24.03	16.97	0.66	17.63	6.45	8.02	25	154.91	192.72	-	25	192.72		8.00	3.00	1.091	0.013	0.0003	761.12	760.05	1.988	1.999	0.061	0.062	0.60	0.04	0.10	761.22	759.62	758.24	
MOCKINGBIRD LANE STA 57+13.36, 16.50' LT INSTALL: (1) TXDOT BC-ECD (FTW) (1) TXDOT MI-CBC (FTW) (1) TXDOT MI-B&R (FTW) (1) COM MANHOLE LID SD-9 RE: TXDOT DETAILS RIM = 766.77	OUTFALL C STA: 4+70.00, 0.00' = ONWARD ROAD STA: 4+35.59, 10.17' LT VERTICAL BEND	68.18	-	-	58.71	-	-	-	37.71	17.63	0.17	17.80	6.45	8.02	25	243.07	302.40	-	100	302.40		8.00	3.00	1.091	0.013	0.0029	759.95	759.42	12.054	6.569	2.256	0.670	0.60	1.35	0.10	760.05	758.24	756.32	

Plotted, By: 2026-08-21 13:05:32 Del Rosso, Austin
Last Saved: 2026-08-21 10:04:05 (HYDRAULIC (SHEET 5 OF 10))
K:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain calcs.dwg
Filename:

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

SYSTEM C HYDRAULIC CALCULATIONS - (SHEET 5 OF 10)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C3.16

25-YR HYDRAULIC CALCULATIONS CONTINUED

SYSTEM C CONTINUED

From	To	Pipe Length	Drainage Area Incremental No.	Drainage Area Incremental Area	Drainage Area Total Area	Runoff "c"	C*Ca (25-year)	Incr. cA	Total cA	Time of Concentration Inlet	Time of Concentration Travel	Time of Concentration Total	25-year Intensity	100-year Intensity	Design Frequency	Q25 Runoff	Q100 Runoff	Inlet bypass	Design Storm	Q pipe	Pipe Size Diameter	Width	Height	R	n	Sf	HGL U/S	HGL D/S	Head Loss Calculations V1 (in)	V2 (out)	$V1^2/2g$	$V2^2/2g$	Kj	$KjV1^2/2G$	Hk	Design HGL	Invert Elev. From	Invert Elev. To	T/C Elev.
		ft		acres	acres					min.	min.	min.	in/hr	in/hr	Years	cfs	cfs	cfs		cfs	In.					ft/ft	Elev.	Elev.	ft/s	ft/s	ft	ft		ft	ft	Elev.	ft	ft	ft
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	21a	21b	21c	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
SYSTEM C																																						
OUTFALL C STA: 4+70.00, 0.00' = ONWARD ROAD STA: 4+35.59, 10.17' LT VERTICAL BEND	OUTFALL C STA: 1+74.15, 0.00' = ONWARD ROAD STA: 1+39.29, 19.92' LT INSTALL: (1) SW-0 HEADWALL TOP OF WALL ELEV = 758.5± RE: TXDOT DETAILS	295.85	-	-	58.71	-	-	-	37.71	17.80	0.77	18.57	6.31	7.85	25	237.89	295.97	-	100	295.97		8.00	3.00	1.091	0.013	0.0028	759.32	757.84	13.004	6.429	2.626	0.642	0.60	1.58	0.10	759.42	756.32	754.84	

SYSTEM D

From	To	Pipe Length	Drainage Area Incremental No.	Drainage Area Incremental Area	Drainage Area Total Area	Runoff "c"	C*Ca (25-year)	Incr. cA	Total cA	Time of Concentration Inlet	Time of Concentration Travel	Time of Concentration Total	25-year Intensity	100-year Intensity	Design Frequency	Q25 Runoff	Q100 Runoff	Inlet bypass	Design Storm	Q pipe	Pipe Size Diameter	Width	Height	R	n	Sf	HGL U/S	HGL D/S	Head Loss Calculations V1 (in)	V2 (out)	$V1^2/2g$	$V2^2/2g$	Kj	$KjV1^2/2G$	Hk	Design HGL	Invert Elev. From	Invert Elev. To	T/C Elev.
		ft		acres	acres					min.	min.	min.	in/hr	in/hr	Years	cfs	cfs	cfs		cfs	In.					ft/ft	Elev.	Elev.	ft/s	ft/s	ft	ft		ft	ft	Elev.	ft	ft	ft
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	21a	21b	21c	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
SYSTEM D																																						
INLET D0A MOCKINGBIRD LANE STA: 66+50.00, 34.00' RT INSTALL 10' TYPE II RECESSED CURB INLET RE: STORM DETAILS T/C = 780.58 4.5' DEEP	MOCKINGBIRD LANE STA: 66+62.10, 12.50' RT INSTALL 24" 60° BEND	20.21	D0A	0.22	0.22	0.90	0.99	0.22	0.22	10.00	0.59	10.59	8.10	10.14	25	1.80	2.25	-	25	1.80	24.00				0.013	0.0001	776.28	774.60	-	0.572	-	0.005	1.25	-	0.10	776.38	776.08	774.07	780.58
MOCKINGBIRD LANE STA: 66+62.10, 12.50' RT INSTALL 24" 60° BEND	MOCKINGBIRD LANE STA: 66+79.42, 12.50' RT INSTALL 24"X18" 60° WYE	17.32	-	-	0.22	-	-	-	0.22	10.59	0.52	11.11	7.82	9.78	25	1.74	2.17	-	25	1.74	24.00				0.013	0.0001	774.50	774.50	0.572	0.553	0.005	0.005	0.60	0.00	0.10	774.60	774.07	773.90	
FUTURE INLET D1A MOCKINGBIRD LANE STA: 66+50.00, 35.00' LT INSTALL 10' RECESSED CURB INLET RE: STORM DETAILS T/C = 780.58 4.5' DEEP	MOCKINGBIRD LANE STA: 66+79.42, 12.50' RT INSTALL 24"X18" 60° WYE	54.96	D1A	0.23	0.23	0.90	0.99	0.22	0.22	10.00	0.90	10.90	8.10	10.14	25	1.80	2.26	-	25	1.80	18.00				0.013	0.0003	776.38	774.50	-	1.021	-	0.016	1.25	-	0.10	776.48	776.08	774.15	780.58
MOCKINGBIRD LANE STA: 66+79.42, 12.50' RT INSTALL 24"X18" 60° WYE	MOCKINGBIRD LANE STA: 68+92.10, 12.50' RT INSTALL 1 - 4' TYPE A JUNCTION BOX RE: CITY STANDARD DETAILS	212.68	-	-	0.45	-	-	-	0.44	11.11	3.58	14.69	7.00	8.72	25	3.11	3.88	-	25	3.11	24.00				0.013	0.0002	774.40	772.35	1.021	0.991	0.016	0.015	0.60	0.01	0.10	774.50	773.90	771.77	
INLET D0 MOCKINGBIRD LANE STA: 68+80.00, 32.50' RT INSTALL 10' TYPE II RECESSED CURB INLET RE: STORM DETAILS T/C = 780.43 5.0' DEEP	MOCKINGBIRD LANE STA: 68+92.10, 12.50' RT INSTALL 1 - 4' TYPE A JUNCTION BOX RE: CITY STANDARD DETAILS	20.21	D0	0.14	0.14	0.90	0.99	0.14	0.14	10.00	0.52	10.52	8.10	10.14	25	1.14	1.42	-	25	1.14	18.00				0.013	0.0001	775.60	772.35	-	0.644	-	0.006	1.25	-	0.10	775.70	775.43	772.02	780.43
MOCKINGBIRD LANE STA: 68+92.10, 12.50' RT INSTALL 1 - 4' TYPE A JUNCTION BOX RE: CITY STANDARD DETAILS	MOCKINGBIRD LANE STA: 69+09.43, 12.51' RT INSTALL 24"X18" 60° WYE	17.33	-	-	0.59	-	-	-	0.59	14.69	0.22	14.91	7.00	8.72	25	4.09	5.10	-	25	4.09	24.00				0.013	0.0003	772.25	772.04	0.991	1.303	0.015	0.026	0.60	0.01	0.10	772.35	771.77	771.46	
FUTURE INLET D1 MOCKINGBIRD LANE STA: 68+80.00, 34.50' LT INSTALL 10' RECESSED CURB INLET RE: STORM DETAILS T/C = 780.43	MOCKINGBIRD LANE STA: 69+09.43, 12.51' RT INSTALL 24"X18" 60° WYE	54.96	D1	0.14	0.14	0.90	0.99	0.14	0.14	10.00	1.53	11.53	7.82	9.78	25	1.06	1.33	-	25	1.06	18.00				0.013	0.0001	776.13	772.04	-	0.600	-	0.006	1.25	-	0.10	776.23	775.93	771.71	780.43
MOCKINGBIRD LANE STA: 69+09.43, 12.51' RT INSTALL 24"X18" 60° WYE	MOCKINGBIRD LANE STA 77+04.38, 12.50' RT BEGIN HORIZONTAL CURVE	794.95	-	-	0.73	-	-	-	0.72	14.91	10.80	25.71	5.35	6.65	25	3.85	4.80	-	25	3.85	24.00				0.013	0.0003	771.94	757.71	1.303	1.227	0.026	0.023	0.60	0.02	0.10	772.04	771.46	757.15	
MOCKINGBIRD LANE STA 77+04.38, 12.50' RT BEGIN HORIZONTAL CURVE	MOCKINGBIRD LANE STA: 77+42.09, 12.50' RT INSTALL 24"X18" 60° WYE	38.15	-	-	0.73	-	-	-	0.72	25.71	0.53	26.24	5.21	6.48	25	3.76	4.67	-	25	3.76	24.00				0.013	0.0003	757.61	757.33	1.227	1.195	0.023	0.022	0.60	0.01	0.10	757.71	757.15	756.46	
INLET D2 MOCKINGBIRD LANE STA: 77+25.00, 33.91' RT INSTALL 20' TYPE II RECESSED CURB INLET RE: STORM DETAILS T/C = 762.14 4.0' DEEP	MOCKINGBIRD LANE STA: 77+42.09, 12.50' RT INSTALL 24"X18" 60° WYE	20.35	D2	0.84	0.84	0.90	0.99	0.83	0.83	10.00	0.09	10.09	8.10	10.14	25	6.72	8.41	-	25	6.72	18.00				0.013	0.0041	758.63	757.33	-	3.803	-	0.225	1.25	-	0.28	758.91	758.14	756.71	762.14
MOCKINGBIRD LANE STA: 77+42.09, 12.50' RT INSTALL 24"X18" 60° WYE	MOCKINGBIRD LANE STA: 77+58.36, 12.50' RT INSTALL 24"X18" 60° WYE	16.46	-	-	1.57	-	-	-	1.55	26.24	0.11	26.35	5.21	6.48	25	8.08	10.05	-	25	8.08	24.00				0.013	0.0013	757.23	757.21	3.803	2.571	0.225	0.103	0.60	0.13	0.10	757.33	756.46	756.16	
FUTURE INLET D3 MOCKINGBIRD LANE STA: 77+25.00, 34.50' LT INSTALL 20' RECESSED CURB INLET RE: STORM DETAILS T/C = 762.14 4.0' DEEP	MOCKINGBIRD LANE STA: 77+58.36, 12.50' RT INSTALL 24"X18" 60° WYE	54.04	D3	0.85	0.85	0.90	0.99	0.84	0.84	10.00	0.23	10.23	8.10	10.14	25	6.80	8.52	-	25	6.80	18.00				0.013	0.0042	758.75	757.21	-	3.850	-	0.230	1.25	-	0.29	759.04	758.14	756.41	762.14

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

STATE OF TEXAS
ANDREW L. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER
8/21/2026

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

SYSTEM C&D
HYDRAULIC
CALCULATIONS -
(SHEET 6 OF 10)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C3.17

Plotted By: 2026-08-21 13:05:33, Del Rosso, Austin
Last Saved: 2026-08-21 10:04:05 (HYDRAULIC (SHEET 6 OF 10))
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain calcs.dwg

25-YR HYDRAULIC CALCULATIONS CONTINUED

SYSTEM D CONTINUED

From	To	Pipe Length	Drainage Area: Incremental No.	Drainage Area: Incremental Area	Drainage Area: Total Area	Runoff "c"	C*Ca (25-year)	Incr. cA	Total cA	Time of Concentration: Inlet	Time of Concentration: Travel	Time of Concentration: Total	25-year Intensity	100-year Intensity	Design Frequency	Q25 Runoff	Q100 Runoff	Inlet bypass	Design Storm	Q pipe	Pipe Size Diameter	Width	Height	R	n	Sf	HGL: U/S Elev.	HGL: D/S Elev.	Head Loss Calculations: V1 (in)	V2 (out)	$V1^2/2g$	$V2^2/2g$	Kj	$KjV1^2/2G$	Hk	Design HGL	Invert Elev.: From	Invert Elev.: To	T/C Elev.
		ft		acres	acres					min.	min.	min.	in/hr	in/hr	Years	cfs	cfs	cfs		cfs	In.					ft/ft	Elev.	Elev.	ft/s	ft/s	ft	ft				Elev.	ft	ft	ft
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	21a	21b	21c	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
SYSTEM D																																							
MOCKINGBIRD LANE STA: 77+58.36, 12.50' RT INSTALL 24"X18" 60° WYE	MOCKINGBIRD LANE STA 77+98.82, 12.41' RT BEGIN REVERSE CURVE	40.93	-	-	2.41	-	-	-	2.39	26.35	0.17	26.52	5.21	6.48	25	12.45	15.50	-	25	12.45	24.00				0.013	0.0030	757.10	756.57	3.850	3.964	0.230	0.244	0.60	0.14	0.11	757.21	756.16	755.55	
MOCKINGBIRD LANE STA 77+98.82, 12.41' RT BEGIN REVERSE CURVE	MOCKINGBIRD LANE STA: 79+29.45, 12.50' RT END HORIZONTAL CURVE	129.68	-	-	2.41	-	-	-	2.39	26.52	0.56	27.08	5.07	6.31	25	12.13	15.09	-	25	12.13	24.00				0.013	0.0029	756.47	755.56	3.964	3.860	0.244	0.231	0.60	0.15	0.10	756.57	755.55	753.61	
MOCKINGBIRD LANE STA: 79+29.45, 12.50' RT END HORIZONTAL CURVE	CULVERT D STA 1+78.35, 0.00' = MOCKINGBIRD LANE STA 80+02.45, 12.50' RT CONNECT 24" RCP TO PROP 4'X3' RCB INSTALL: (1) TXDOT BC-ECD (FTW) (1) TXDOT MI-CBC (FTW) (1) TXDOT MI-B&R (FTW) (1) COM MANHOLE LID SD-9 RE: TXDOT DETAILS	70.48	-	-	2.41	-	-	-	2.39	27.08	0.30	27.38	5.07	6.31	25	12.13	15.09	-	25	12.13	24.00				0.013	0.0029	755.46	755.25	3.860	3.860	0.231	0.231	0.60	0.14	0.10	755.56	753.61	753.25	
FUTURE INLET D5 MOCKINGBIRD LANE STA: 80+40.00, 34.50' LT INSTALL 15' RECESSED CURB INLET RE: STORM DETAILS T/C = 757.66 4.0' DEEP	CULVERT D STA 2+27.66, 2.50' RT MOCKINGBIRD LANE STA 79+98.89, 36.75' LT CONNECT FUTURE 18" RCP TO PROP 4'X3' RCB	33.61	D5	0.53	0.53	0.90	0.99	0.53	0.53	10.00	0.23	10.23	8.10	10.14	25	4.27	5.34	-	25	4.27	18.00				0.013	0.0016	755.06	755.00	-	2.414	-	0.090	1.25	-	0.11	755.17	754.16	753.50	757.66
INLET D4 MOCKINGBIRD LANE STA: 80+60.00, 35.17' RT INSTALL 15' TYPE II RECESSED CURB INLET RE: STORM DETAILS T/C = 757.64 4.0' DEEP	MOCKINGBIRD LANE STA 80+16.09, 32.25' RT INSTALL 18" 60° BEND	35.74	D4	0.59	0.59	0.90	0.99	0.59	0.59	10.00	0.22	10.22	8.10	10.14	25	4.76	5.95	-	25	4.76	18.00				0.013	0.0020	754.80	754.73	-	2.691	-	0.112	1.25	-	0.14	754.94	753.64	753.23	757.64
MOCKINGBIRD LANE STA 80+16.09, 32.25' RT INSTALL 18" 60° BEND	CULVERT D STA 1+53.43, 2.50' RT = MOCKINGBIRD LANE STA 80+07.98, 36.93' RT CONNECT PROP 18" RCP TO PROP 4'X3' RCB	9.36			0.59	-	-	-	0.59	10.22	0.06	10.28	8.10	10.14	25	4.76	5.95	-	25	4.76	18.00				0.013	0.0020	754.65	754.63	-	2.691	-	0.112	0.60	-	0.10	754.75	753.23	753.13	757.66
CULVERT D STA 2+37.29, 0.00' = MOCKINGBIRD LANE STA 79+95.23, 46.00' LT INSTALL: (1) PW-2 HEADWALL RE: TXDOT DETAILS	CULVERT D STA 2+27.66, 2.50' RT MOCKINGBIRD LANE STA 79+98.89, 36.75' LT CONNECT FUTURE 18" RCP TO PROP 4'X3' RCB	9.32	OS6	17.38	17.38	0.30	0.33	5.74	5.74	25.00	0.05	25.05	5.35	6.65	25	30.67	38.17	-	100	38.17		4.00	3.00	0.857	0.013	0.0010	758.38	758.37	-	3.181	-	0.157	1.25	-	0.20	758.57	753.55	753.50	
CULVERT D STA 2+27.66, 2.50' RT MOCKINGBIRD LANE STA 79+98.89, 36.75' LT CONNECT FUTURE 18" RCP TO PROP 4'X3' RCB	CULVERT D STA 1+78.35, 0.00' = MOCKINGBIRD LANE STA 80+02.45, 12.50' RT CONNECT 24" RCP TO PROP 4'X3' RCB INSTALL: (1) TXDOT BC-ECD (FTW) (1) TXDOT MI-CBC (FTW) (1) TXDOT MI-B&R (FTW) (1) COM MANHOLE LID SD-9 RE: TXDOT DETAILS	49.62	-		17.92	-	-	-	6.00	25.05	0.25	25.30	5.35	6.65	25	32.08	39.92	-	100	39.92		4.00	3.00	0.857	0.013	0.0010	758.27	758.22	3.181	3.327	0.157	0.172	1.25	0.20	0.10	758.37	753.50	753.26	
CULVERT D STA 1+78.35, 0.00' = MOCKINGBIRD LANE STA 80+02.45, 12.50' RT CONNECT 24" RCP TO PROP 4'X3' RCB INSTALL: (1) TXDOT BC-ECD (FTW) (1) TXDOT MI-CBC (FTW) (1) TXDOT MI-B&R (FTW) (1) COM MANHOLE LID SD-9 RE: TXDOT DETAILS	CULVERT D STA 1+53.43, 2.50' RT = MOCKINGBIRD LANE STA 80+07.98, 36.93' RT CONNECT PROP 18" RCP TO PROP 4'X3' RCB	24.93	-		20.33	-	-	-	7.20	27.38	0.11	27.49	5.07	6.31	25	36.49	45.42	-	100	45.42		4.00	3.00	0.857	0.013	0.0013	758.12	758.08	3.327	3.785	0.172	0.222	1.25	0.21	0.10	758.22	753.26	753.13	
CULVERT D STA 1+53.43, 2.50' RT = MOCKINGBIRD LANE STA 80+07.98, 36.93' RT CONNECT PROP 18" RCP TO PROP 4'X3' RCB	RESTRICTOR SECTION 2'X2' OPENING CONTRACTOR TO COORDINATE WITH CITY	8.33	-		20.92	-	-	-	7.49	27.49	0.04	27.53	5.07	6.31	25	37.98	47.27	-	100	47.27		4.00	3.00	0.857	0.013	0.0015	757.98	757.97	3.785	3.939	0.222	0.241	1.25	0.28	0.10	758.08	753.13	753.09	
RESTRICTOR SECTION 2'X2' OPENING CONTRACTOR TO COORDINATE WITH CITY	CULVERT D STA 1+45.10, 0.00' = MOCKINGBIRD LANE STA 80+06.52, 45.50' RT INSTALL: (1) PW-2 HEADWALL TOP OF WALL ELEV = 757.5± RE: TXDOT DETAILS	0.50	-		20.92	-	-	-	7.49	27.53	0.00	27.53	5.07	6.31	25	37.98	47.27	-	100	47.27		2.00	2.00	0.500	0.013	0.0269	756.10	756.09	3.939	11.817	0.241	2.169	1.25	0.30	1.87	757.97	753.07	753.07	

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026

STATE OF TEXAS — MISTY D. CHRISTIAN — 98384 — REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

SYSTEM D HYDRAULIC CALCULATIONS - (SHEET 7 OF 10)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER

C3.18

Plotted By: 2026-08-21 13:05:35, Del Rosso, Austin
Last Saved: 2026-08-21 10:04:05 (HYDRAULIC (SHEET 7 OF 10))
k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain calcs.dwg
Filename:

25-YR HYDRAULIC CALCULATIONS CONTINUED

SYSTEM E

From	To	Pipe Length	Drainage Area Incremental No.	Drainage Area Incremental Area	Drainage Area Total Area	Runoff "c"	C*Ca (25-year)	Incr. cA	Total cA	Time of Concentration Inlet	Time of Concentration Travel	Time of Concentration Total	25-year Intensity	100-year Intensity	Q25 Runoff	Q100 Runoff	Inlet bypass	Design Storm	Q pipe	Pipe Size Diameter	Width	Height	R	n	Sf	HGL U/S	HGL D/S	Head Loss Calculations V1 (in)	V2 (out)	$V1^2/2g$	$V2^2/2g$	$KjV1^2/2G$	Hk	Design HGL	Invert Elev. From	Invert Elev. To	T/C Elev.
		ft		acres	acres					min.	min.	min.	in/hr	in/hr	cfs	cfs	cfs		cfs	In.					ft/ft	Elev.	Elev.	ft/s	ft/s	ft	ft	ft	ft	Elev.	ft	ft	ft
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	21a	21b	21c	22	23	24	25	26	27	28	29	31	32	33	34	35	36
SYSTEM E																																					
INLET E0 MOCKINGBIRD LANE STA: 89+75.00, 34.00' RT INSTALL 20' TYPE II RECESSED CURB INLET RE: STORM DETAILS T/C = 746.64 4.5' DEEP	MOCKINGBIRD LANE STA: 89+87.49, 24.50' RT INSTALL 24" 45° BEND	7.78	E0	0.69	0.69	0.90	0.99	0.69	0.69	10.00	0.07	10.07	8.10	10.14	5.55	6.95	-	25	5.55	24.00				0.013	0.0006	742.54	742.25	-	1.768	-	0.049	-	0.10	742.64	742.14	741.63	746.64
MOCKINGBIRD LANE STA: 89+87.49, 24.50' RT INSTALL 24" 45° BEND	MOCKINGBIRD LANE STA: 90+16.23, 24.50' RT INSTALL 24"X18" 60° WYE	28.74	-	-	0.69	-	-	-	0.69	10.07	0.27	10.34	8.10	10.14	5.55	6.95	-	25	5.55	24.00				0.013	0.0006	742.15	741.76	1.768	1.768	0.049	0.049	0.03	0.10	742.25	741.63	740.94	
FUTURE INLET E1 MOCKINGBIRD LANE STA: 89+75.00, 34.29' LT INSTALL 20' RECESSED CURB INLET RE: CITY STANDARD DETAILS T/C = 746.64 4.5' DEEP	MOCKINGBIRD LANE STA: 90+16.23, 24.50' RT INSTALL 24"X18" 60° WYE	68.46	E1	0.69	0.69	0.90	0.99	0.69	0.69	10.00	0.36	10.36	8.10	10.14	5.57	6.97	-	25	5.57	18.00				0.013	0.0028	742.85	741.76	-	3.153	-	0.154	-	0.19	743.04	742.14	741.19	746.64
MOCKINGBIRD LANE STA: 90+16.23, 24.50' RT INSTALL 24"X18" 60° WYE	MOCKINGBIRD LANE STA 95+60.18, 24.50' RT INSTALL 30"X18" 60° WYE	543.94	-	-	1.39	-	-	-	1.37	10.36	2.85	13.21	7.27	9.07	9.99	12.46	-	25	9.99	24.00				0.013	0.0019	741.66	729.03	3.153	3.179	0.154	0.157	0.09	0.10	741.76	740.94	727.89	
INLET E2 MOCKINGBIRD LANE STA: 95+50.00, 34.00' RT INSTALL 20' TYPE II RECESSED CURB INLET RE: STORM DETAILS T/C = 735.27 5.5' DEEP	MOCKINGBIRD LANE STA 95+60.18, 24.50' RT INSTALL 30"X18" 60° WYE	6.35	E2	0.65	0.65	0.90	0.99	0.64	0.64	10.00	0.04	10.04	8.10	10.14	5.18	6.48	-	25	5.18	18.00				0.013	0.0024	730.08	729.03	-	2.931	-	0.133	-	0.17	730.25	729.77	728.13	735.27
MOCKINGBIRD LANE STA 95+60.18, 24.50' RT INSTALL 30"X18" 60° WYE	MOCKINGBIRD LANE STA 95+90.08, 24.50' RT INSTALL 1 - 4' TYPE A JUNCTION BOX RE: CITY STANDARD DETAILS RIM = 733.78	29.90	-	-	2.03	-	-	-	2.01	13.21	0.11	13.32	7.27	9.07	14.64	18.26	-	25	14.64	24.00				0.013	0.0042	728.79	728.32	3.179	4.659	0.157	0.337	0.09	0.24	729.03	727.89	727.17	
FUTURE INLET E3 MOCKINGBIRD LANE STA: 95+50.00, 34.79' LT INSTALL 20' RECESSED CURB INLET RE: CITY STANDARD DETAILS T/C = 735.27 4.5' DEEP	MOCKINGBIRD LANE STA 95+90.08, 24.50' RT INSTALL 1 - 4' TYPE A JUNCTION BOX RE: CITY STANDARD DETAILS RIM = 733.78	66.15	E3	0.52	0.52	0.90	0.99	0.51	0.51	10.00	0.47	10.47	8.10	10.14	4.14	5.18	-	25	4.14	18.00				0.013	0.0016	731.19	728.32	-	2.342	-	0.085	-	0.11	731.29	730.77	727.42	735.27
MOCKINGBIRD LANE STA 95+90.08, 24.50' RT INSTALL 1 - 4' TYPE A JUNCTION BOX RE: CITY STANDARD DETAILS RIM = 733.78	MOCKINGBIRD LANE STA 99+16.15, 24.50' RT BEGIN HORIZONTAL CURVE	326.07	-	-	2.55	-	-	-	2.52	13.32	0.97	14.29	7.00	8.72	17.66	22.00	-	25	17.66	24.00				0.013	0.0061	728.03	715.51	4.659	5.620	0.337	0.490	0.20	0.29	728.32	727.17	714.45	
MOCKINGBIRD LANE STA 99+16.15, 24.50' RT BEGIN HORIZONTAL CURVE	MOCKINGBIRD LANE STA: 100+10.18, 24.50' RT INSTALL 24"X18" 60° WYE	96.11	-	-	2.55	-	-	-	2.52	14.29	0.29	14.57	7.00	8.72	17.66	22.00	-	25	17.66	24.00				0.013	0.0061	715.31	712.38	5.620	5.620	0.490	0.490	0.29	0.20	715.51	714.45	710.71	
INLET E4 MOCKINGBIRD LANE STA: 100+00.00, 32.50' RT INSTALL 20' TYPE II RECESSED CURB INLET RE: STORM DETAILS T/C = 715.90 4.5' DEEP	MOCKINGBIRD LANE STA: 100+10.18, 24.50' RT INSTALL 24"X18" 60° WYE	6.41	E4	1.51	1.51	0.65	0.72	1.08	1.08	15.00	0.03	15.03	6.72	8.36	7.27	9.05	-	25	7.27	18.00				0.013	0.0048	712.41	712.38	-	4.116	-	0.263	-	0.33	712.73	711.40	710.96	715.90
MOCKINGBIRD LANE STA: 100+10.18, 24.50' RT INSTALL 24"X18" 60° WYE	MOCKINGBIRD LANE STA: 100+98.85, 18.11' RT BEGIN REVERSE CURVE	87.35	-	-	4.06	-	-	-	3.61	15.03	0.19	15.21	6.72	8.36	24.23	30.15	-	25	24.23	24.00				0.013	0.0115	711.75	708.75	5.620	7.714	0.490	0.924	0.29	0.63	712.38	710.71	707.30	
MOCKINGBIRD LANE STA: 100+98.85, 18.11' RT BEGIN REVERSE CURVE	MOCKINGBIRD LANE STA: 101+90.39, 7.10' RT INSTALL 24"X18" 60° WYE	92.04	-	-	4.06	-	-	-	3.61	15.21	0.20	15.41	6.72	8.36	24.23	30.15	-	25	24.23	24.00				0.013	0.0115	708.38	705.99	7.714	7.714	0.924	0.924	0.55	0.37	708.75	707.30	704.12	
FUTURE INLET E5 MOCKINGBIRD LANE STA: 101+50.00, 25.79' LT INSTALL 20' RECESSED CURB INLET RE: CITY STANDARD DETAILS T/C = 710.13 4.5 DEEP	MOCKINGBIRD LANE STA: 101+90.39, 7.10' RT INSTALL 24"X18" 60° WYE	47.22	E5	0.58	0.58	0.90	0.99	0.57	0.57	10.00	0.30	10.30	8.10	10.14	4.63	5.80	-	25	4.63	18.00				0.013	0.0019	706.15	705.99	-	2.621	-	0.107	-	0.13	706.29	705.63	704.37	710.13
MOCKINGBIRD LANE STA: 101+90.39, 7.10' RT INSTALL 24"X18" 60° WYE	MOCKINGBIRD LANE STA: 102+71.00, 4.00' RT END HORIZONTAL CURVE	80.69	-	-	4.64	-	-	-	4.18	15.41	0.15	15.56	6.72	8.36	28.08	34.93	-	25	28.08	24.00				0.013	0.0154	705.30	703.02	7.714	8.937	0.924	1.240	0.55	0.69	705.99	704.12	701.34	
MOCKINGBIRD LANE STA: 102+71.00, 4.00' RT END HORIZONTAL CURVE	MOCKINGBIRD LANE STA: 103+00.44, 4.00' RT INSTALL 24"X18" 60° WYE	29.44	-	-	4.64	-	-	-	4.18	15.56	0.05	15.62	6.72	8.36	28.08	34.93	-	25	28.08	24.00				0.013	0.0154	702.52	701.65	8.937	8.937	1.240	1.240	0.74	0.50	703.02	701.34	700.32	

Plotted, By: 2026-08-21 13:05:36, Del Rosso, Austin
Last Saved: 2026-08-21 10:04:05 (HYDRAULIC (SHEET 8 OF 10))
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain calcs.dwg

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MICHAEL L. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

SYSTEM E HYDRAULIC CALCULATIONS - (SHEET 8 OF 10)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C3.19

25-YR HYDRAULIC CALCULATIONS CONTINUED

SYSTEM E CONTINUED

From	To	Pipe Length	Drainage Area			Runoff "c"	C*Ca (25-year)	Incr. cA	Total cA	Time of Concentration			25-year Intensity	100-year Intensity	Q25 Runoff	Q100 Runoff	Inlet bypass	Design Storm	Q pipe	Pipe Size Diameter	Width	Height	R	n	Sf	HGL		Head Loss Calculations						Design HGL	Invert Elev.		T/C Elev.
			Incremental		Total Area					Inlet	Travel	Total														U/S	D/S	V1 (in)	V2 (out)	$V1^2/2g$	$V2^2/2g$	$KjV1^2/2G$	Hk		From	To	
			No.	Area																																
		ft		acres	acres					min.	min.	min.	in/hr	in/hr	cfs	cfs	cfs		cfs	In.					ft/ft	Elev.	Elev.	ft/s	ft/s	ft	ft	ft	ft	Elev.	ft	ft	ft
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	21a	21b	21c	22	23	24	25	26	27	28	29	31	32	33	34	35	36
SYSTEM E																																					
INLET E6 MOCKINGBIRD LANE STA: 102+90.00, 12.00' RT INSTALL 20' TYPE II RECESSED CURB INLET RE: STORM DETAILS T/C = 706.40 4.5' DEEP	MOCKINGBIRD LANE STA: 103+00.44, 4.00' RT INSTALL 24"X18" 60° WYE	6.47	E6	0.71	0.71	0.90	0.99	0.71	0.71	10.00	0.03	10.03	8.10	10.14	5.72	7.16	-	25	5.72	18.00				0.013	0.0030	702.26	701.65	-	3.236	-	0.163	-	0.20	702.47	701.90	700.82	706.40
MOCKINGBIRD LANE STA: 103+00.44, 4.00' RT INSTALL 24"X18" 60° WYE	MOCKINGBIRD LANE STA: 104+64.35, 4.00' RT INSTALL 1 - 4' TYPE A JUNCTION BOX RE: CITY STANDARD DETAILS RIM = 704.22	197.76	-	-	5.35	-	-	-	4.88	15.62	0.50	16.12	6.58	8.19	32.15	40.00	-	25	32.15	30.00				0.013	0.0061	701.55	696.76	8.937	6.549	1.240	0.666	0.74	0.10	701.65	700.32	695.38	
INLET E7 MOCKINGBIRD LANE STA: 104+75.00, 26.00' LT INSTALL 20' RECESSED CURB INLET RE: CITY STANDARD DETAILS T/C = 703.85 4.5' DEEP	MOCKINGBIRD LANE STA: 104+64.35, 4.00' RT INSTALL 1 - 4' TYPE A JUNCTION BOX RE: CITY STANDARD DETAILS RIM = 704.22	34.66	E7	0.72	0.72	0.90	0.99	0.72	0.72	10.00	0.18	10.18	8.10	10.14	5.81	7.28	-	25	5.81	18.00				0.013	0.0031	699.77	696.76	-	3.290	-	0.168	-	0.21	699.98	699.35	695.88	703.85
MOCKINGBIRD LANE STA: 104+64.35, 4.00' RT INSTALL 1 - 4' TYPE A JUNCTION BOX RE: CITY STANDARD DETAILS RIM = 704.22	CULVERT E STA 2+16.58, 3.58' RT = MOCKINGBIRD LANE STA 105+32.69, 4.00' RT CONNECT 30" RCP TO PROP 8'X4' RCB INSTALL: (1) TXDOT BC-ECD (FTW) (1) TXDOT MI-CBC (FTW) (1) TXDOT MI-B&R (FTW) (1) COM MANHOLE LID SD-9 RE: TXDOT DETAILS	34.49	-	-	6.08	-	-	-	5.60	16.12	0.08	16.20	6.58	8.19	36.87	45.87	-	25	36.87	30.00				0.013	0.0081	696.28	694.96	6.549	7.512	0.666	0.876	0.40	0.48	696.76	695.38	691.93	
CULVERT E STA 2+64.44, 0.00' = MOCKINGBIRD LANE STA 105+01.23, 37.00' RT INSTALL: (1) PW-2 HEADWALL TOP OF WALL ELEV = 705.6± RE: TXDOT DETAILS	CULVERT E STA 2+46.01, 0.00' = MOCKINGBIRD LANE STA 105+07.53, 19.69' RT INSTALL: (1) 8'X4' 45° BEND	18.43	OS7	51.26	51.26	0.50	0.55	28.19	28.19	15.00	0.04	15.04	6.72	8.36	189.47	235.70	-	100	235.70		8.00	4.00	1.333	0.013	0.0028	695.45	695.40	-	7.366	-	0.842	-	0.51	695.96	690.21	690.12	
CULVERT E STA 2+46.01, 0.00' = MOCKINGBIRD LANE STA 105+07.53, 19.69' RT INSTALL: (1) 8'X4' 45° BEND	CULVERT E STA 2+16.58, 3.58' RT = MOCKINGBIRD LANE STA 105+32.69, 4.00' RT CONNECT 30" RCP TO PROP 8'X4' RCB INSTALL: (1) TXDOT BC-ECD (FTW) (1) TXDOT MI-CBC (FTW) (1) TXDOT MI-B&R (FTW) (1) COM MANHOLE LID SD-9 RE: TXDOT DETAILS	37.12	-	-	51.26	-	-	-	28.19	15.04	0.08	15.13	6.72	8.36	189.47	235.70	-	100	235.70		8.00	4.00	1.333	0.013	0.0028	695.06	694.96	7.366	7.366	0.842	0.842	0.51	0.34	695.40	690.12	689.93	
CULVERT E STA 2+16.58, 3.58' RT = MOCKINGBIRD LANE STA 105+32.69, 4.00' RT CONNECT 30" RCP TO PROP 8'X4' RCB INSTALL: (1) TXDOT BC-ECD (FTW) (1) TXDOT MI-CBC (FTW) (1) TXDOT MI-B&R (FTW) (1) COM MANHOLE LID SD-9 RE: TXDOT DETAILS	CULVERT E STA 1+68.74, 0.00' = MOCKINGBIRD LANE STA 105+77.56, 12.97' LT INSTALL: (1) 8'X4' 45° BEND	40.15	-	-	57.34	-	-	-	33.80	16.20	0.08	16.28	6.58	8.19	222.47	276.76	-	100	276.76		8.00	4.00	1.333	0.013	0.0039	694.32	694.17	7.512	8.649	0.876	1.162	0.53	0.64	694.96	689.93	689.73	

Plotted, By: 2026-08-21 13:05:38, Del Rosso, Austin
Last Saved: 2026-08-21 10:04:05 (HYDRAULIC (SHEET 9 OF 10))
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain calcs.dwg

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

SYSTEM E HYDRAULIC CALCULATIONS - (SHEET 9 OF 10)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C3.20

25-YR HYDRAULIC CALCULATIONS CONTINUED

SYSTEM F

From	To	Pipe Length	Drainage Area			Runoff "c"	C*Ca (25-year)	Incr. cA	Total cA	Time of Concentration			25-year Intensity	100-year Intensity	Design Frequency	Q25 Runoff	Q100 Runoff	Inlet bypass	Design Storm	Q pipe	Pipe Size Diameter	n	Sf	HGL		Head Loss Calculations							Design HGL	Invert Elev.		T/C Elev.
			Incremental		Total Area					Inlet	Travel	Total												U/S	D/S	V1 (in)	V2 (out)	$V1^2/2g$	$V2^2/2g$	Kj	$KjV1^2/2G$	Hk		From	To	
			No.	Area																																
		ft		acres	acres					min.	min.	min.	in/hr	in/hr	Years	cfs	cfs	cfs		cfs	In.		ft/ft	Elev.	Elev.	ft/s	ft/s	ft	ft		ft	ft	Elev.	ft	ft	ft
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15		16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36
SYSTEM F																																				
INLET F1 WALNUT GROVE ROAD STA: 2+70.00, 31.79' LT INSTALL 10' RECESSED CURB INLET RE: CITY STANDARD DETAILS T/C = 711.02	WALNUT GROVE ROAD STA: 2+85.50, 20.43' LT CONTRACTOR TO LOCATE EX 24" RCP IN FIELD AND CONNECT PROP 24" RCP TO EX 24" STORM DRAIN LINE	13.70	F1	0.41	0.41	0.90	0.99	0.41	0.41	10.00	0.12	10.12	8.10	10.14	25	3.30	4.13	-	25	3.30	24.00	0.013	0.0007	708.27	708.26	-	1.866	-	0.054	1.25	-	0.10	708.37	707.02	706.26	711.02

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CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

SYSTEM F HYDRAULIC CALCULATIONS - (SHEET 10 OF 10)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C3.21

Plotted, By: 2026-08-21 13:05:39, Del Rosso, Austin
Last Saved: 2026-08-21 10:04:05 (HYDRAULIC (SHEET 10 OF 10))
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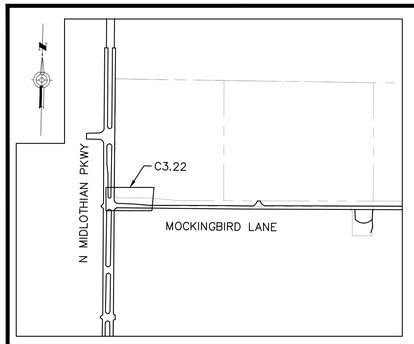
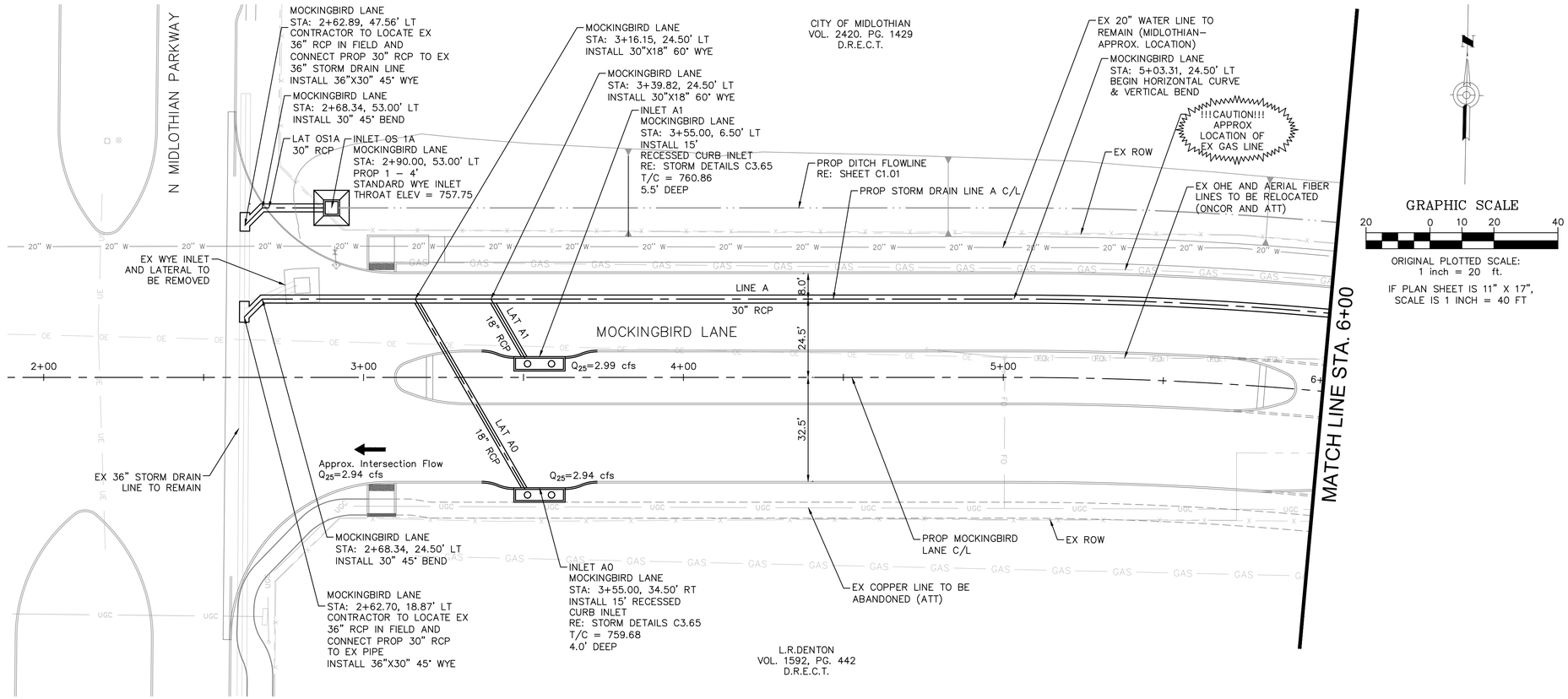
Filename:

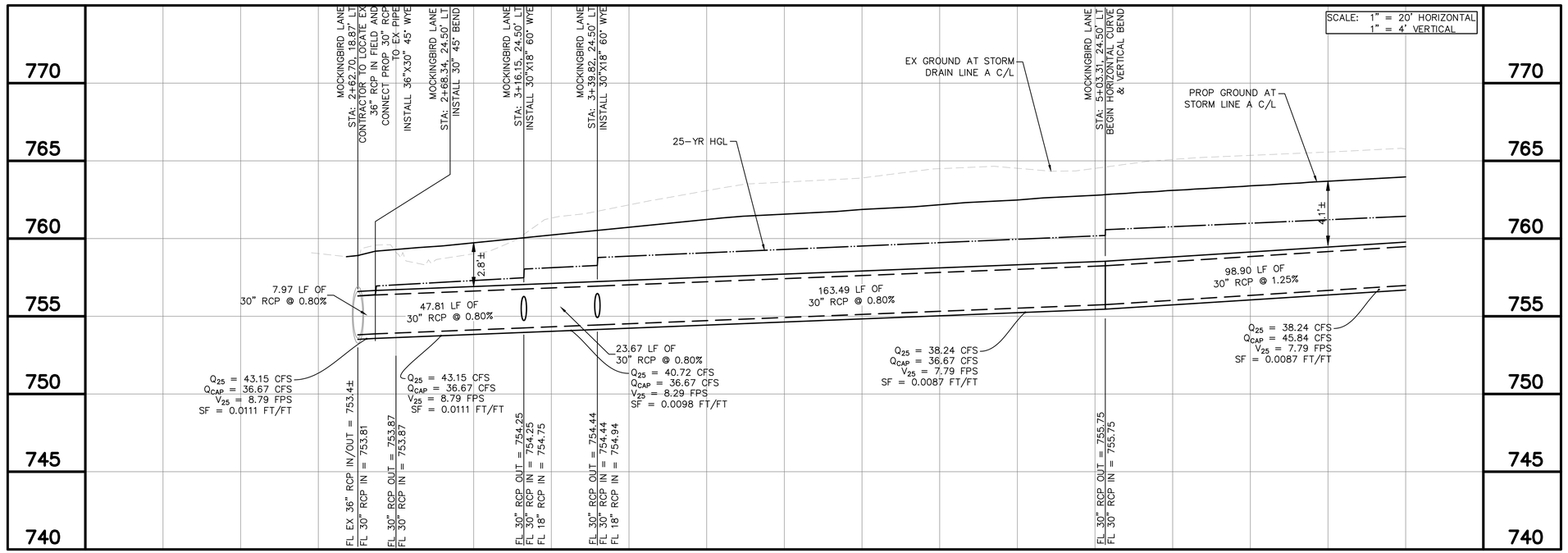


KEY MAP



ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT



Plotted, By: 2026-08-21 13:06:34, Del Rosso, Austin
Last Saved: 2026-08-21 10:12:08 (LINE A-BEGIN TO STA 6+00)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain line a.dwg

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

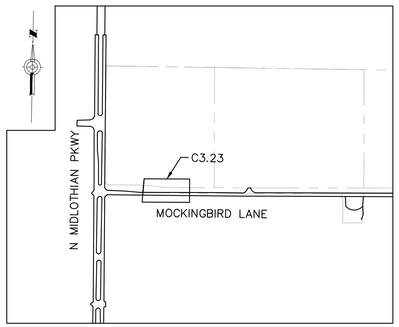
8/21/2026
STATE OF TEXAS
MISTY L. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

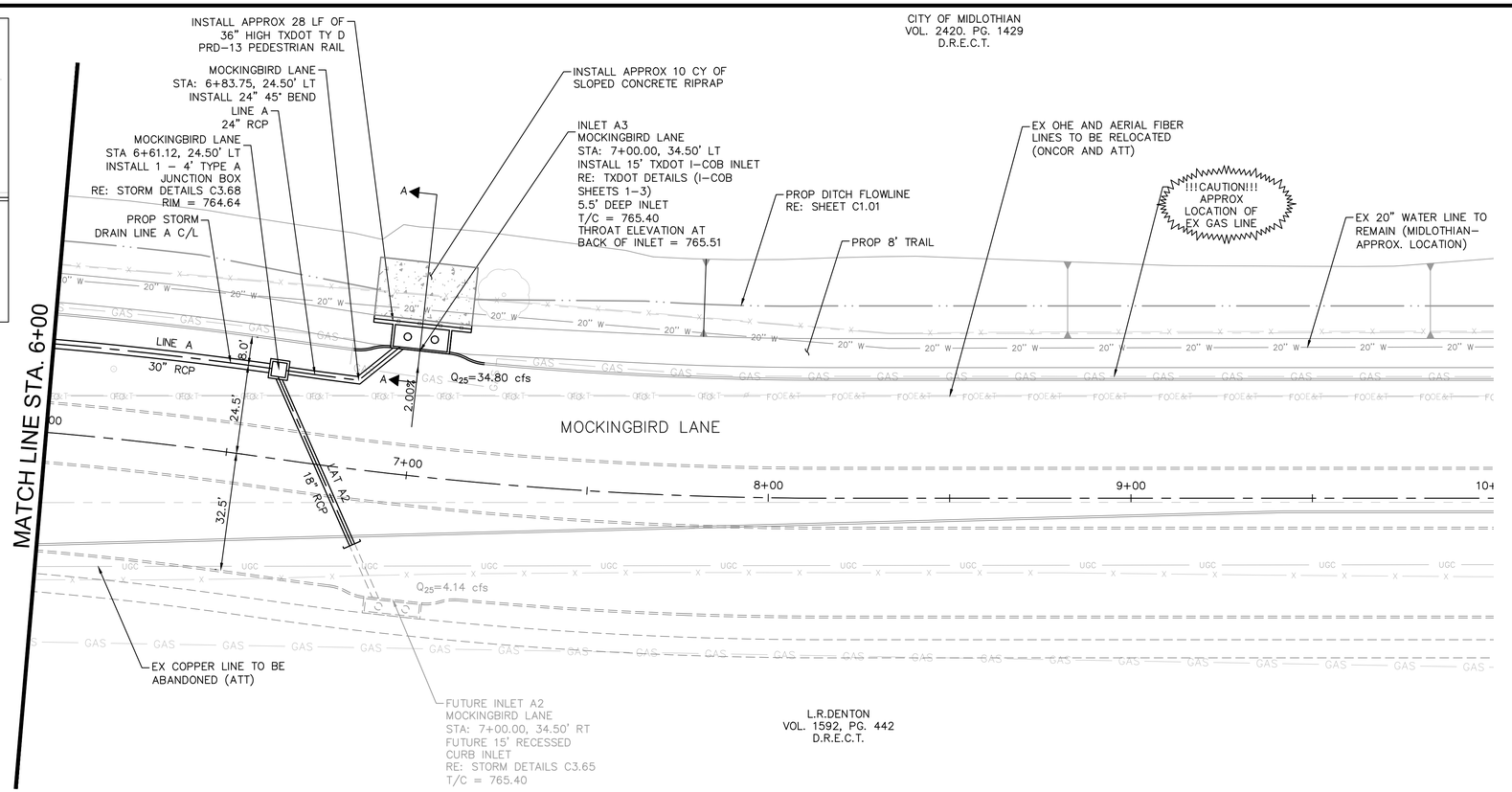
STORM DRAIN LINE A
- BEGIN TO STA 6+00

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C3.22

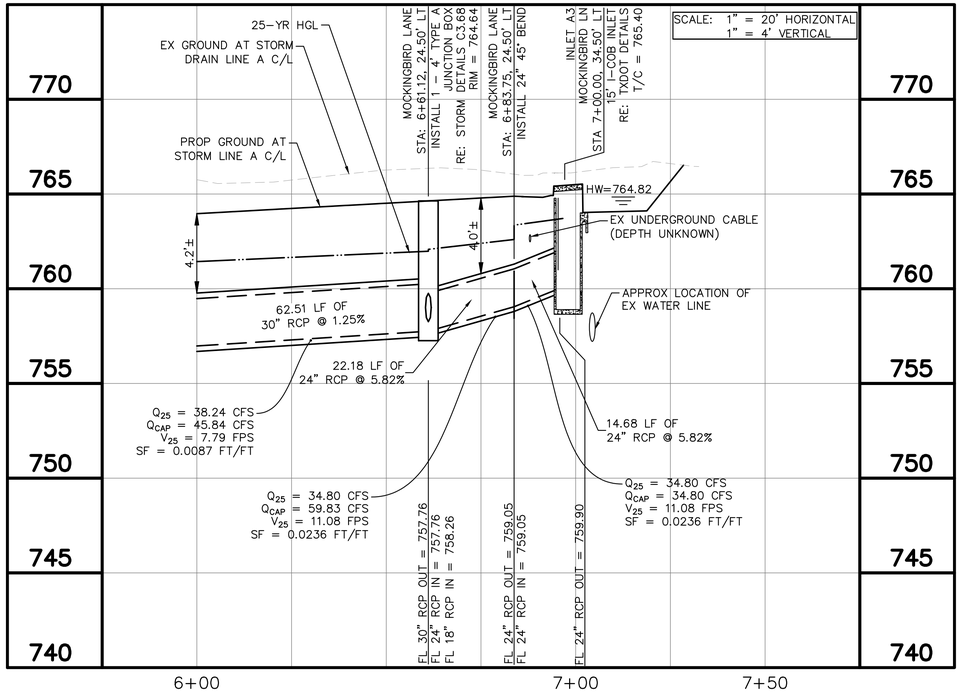


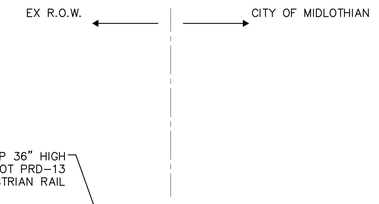
KEY MAP

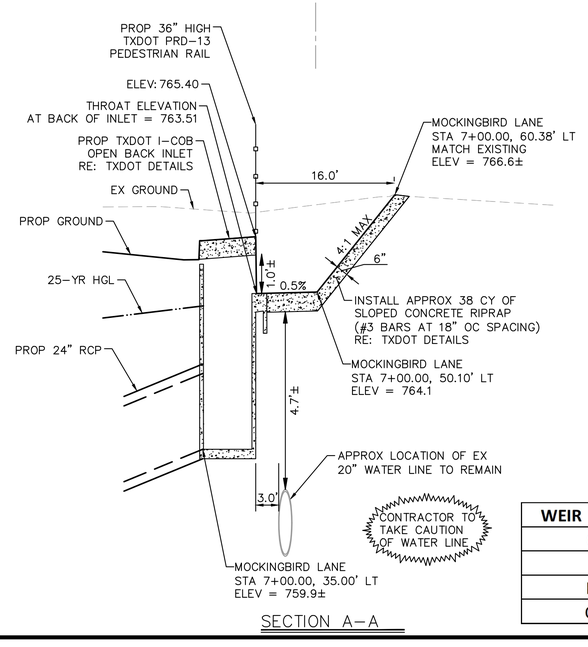


ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT







SECTION A-A

WEIR	Q=CLH^3/2	
C	3	
L	15	ft
H	0.79	ft
Q	31.34	cfs

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REGISTERED PROFESSIONAL ENGINEER

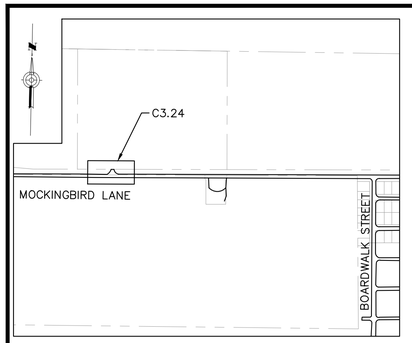
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

STORM DRAIN LINE A
- STA 6+00 TO END

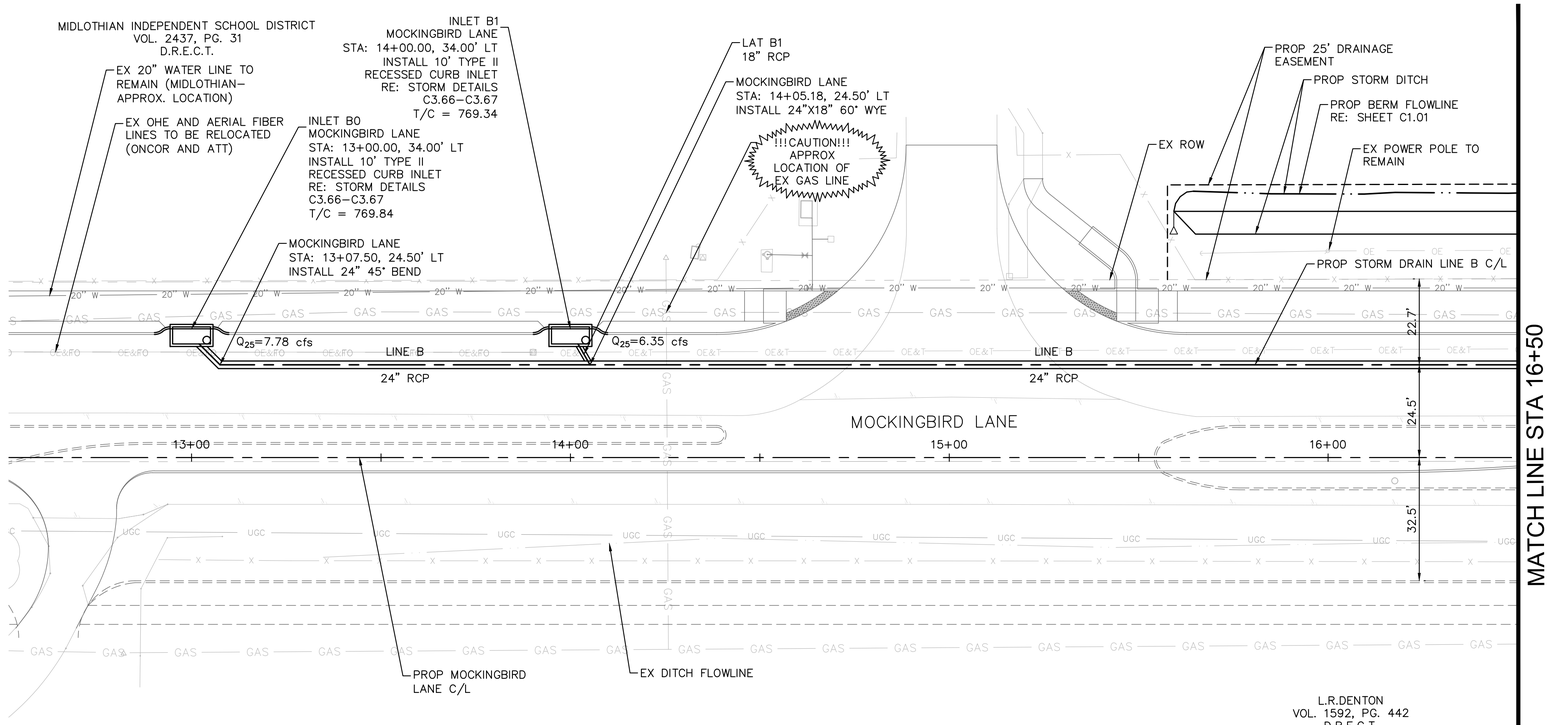
DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

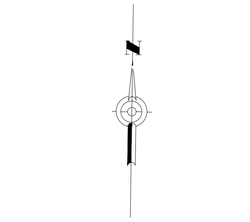
SHEET NUMBER
C3.23

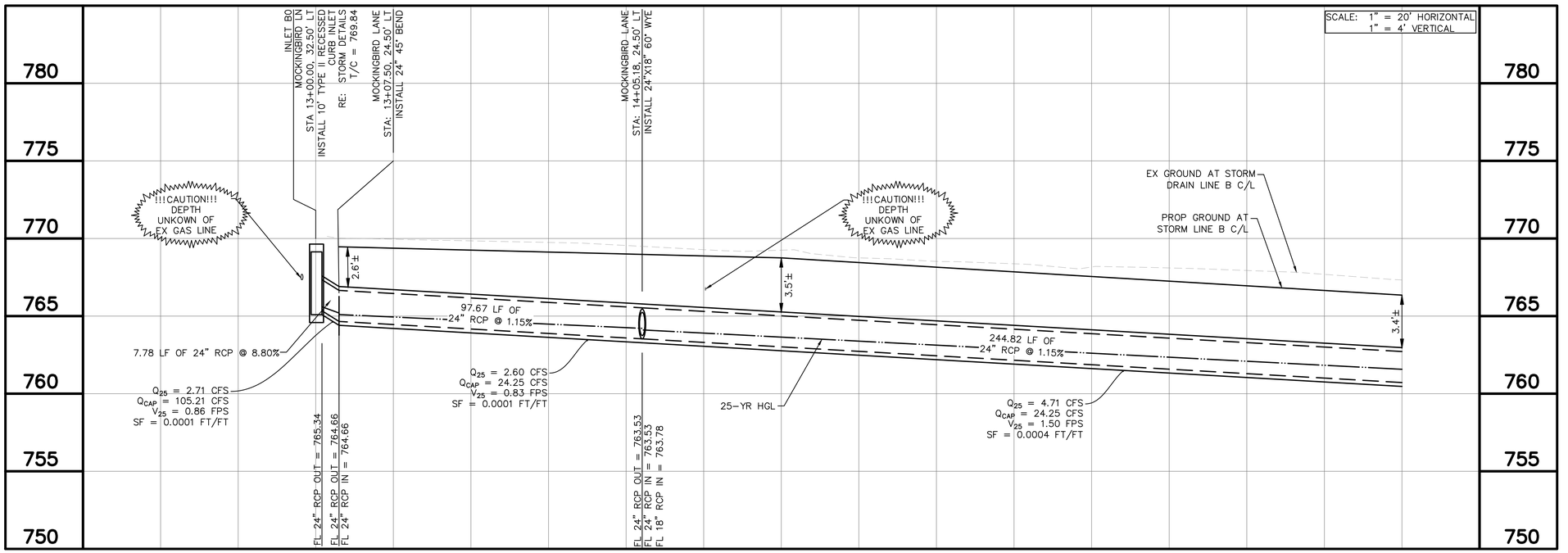
Plotted By: 2026-08-21 13:06:54, Del Rosso, Austin
Last Saved: 2026-08-21 10:12:08 (LINE A-STA 6+00 TO END)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain line a.dwg



KEY MAP







2026-08-21 13:07:57, Del Rosso, Austin
2026-08-21 12:44:16 (STORM DRAIN LINE B – BEGIN TO STA 16+50)
Plotted, By:
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain line b.dwg
Filename:

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

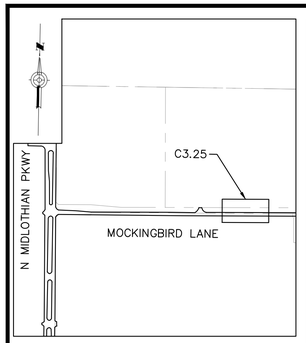
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

STORM DRAIN LINE B -
BEGIN TO STA 16+50

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C3.24



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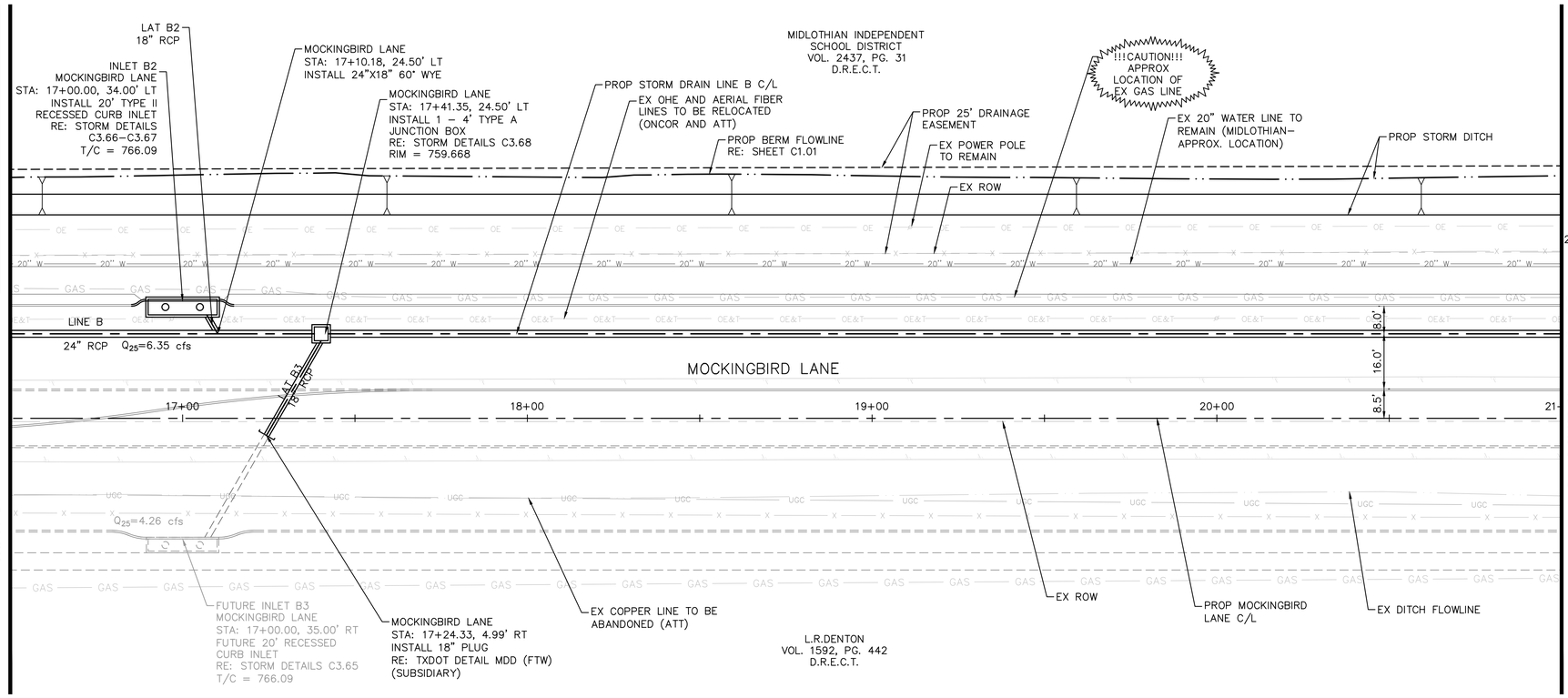


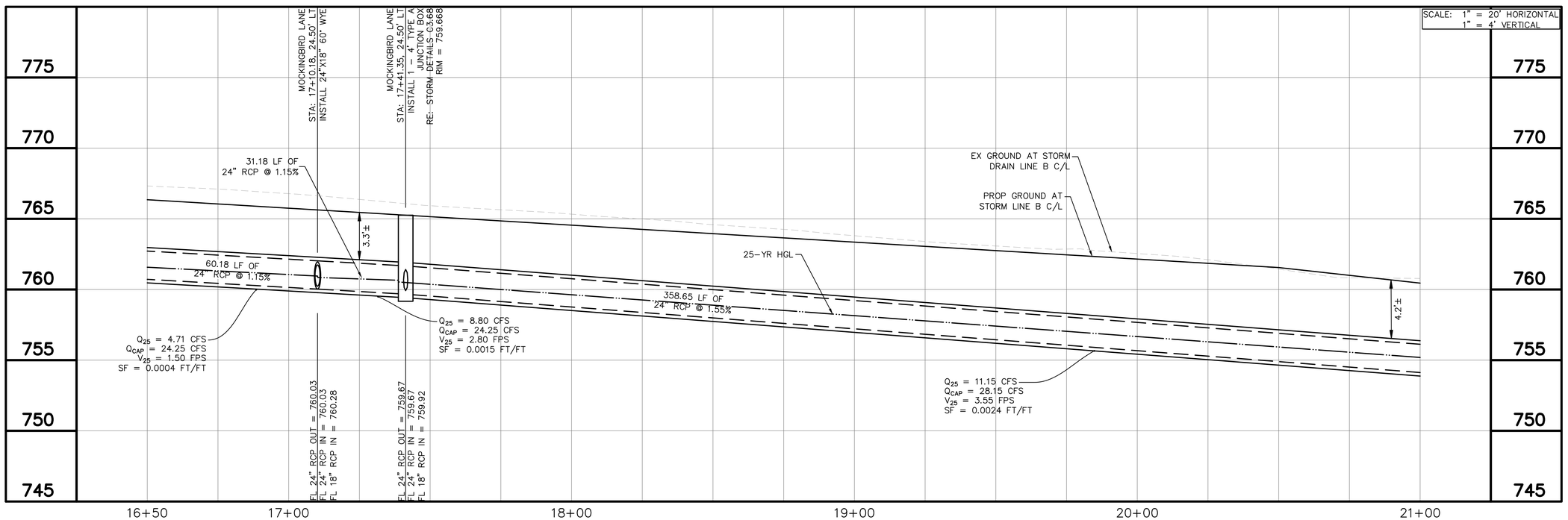
MATCH LINE STA. 21+00

GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT



Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER
8/21/2026

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

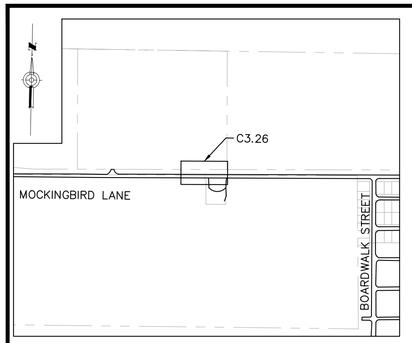
STORM DRAIN LINE B -
16+50 TO STA 21+00

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

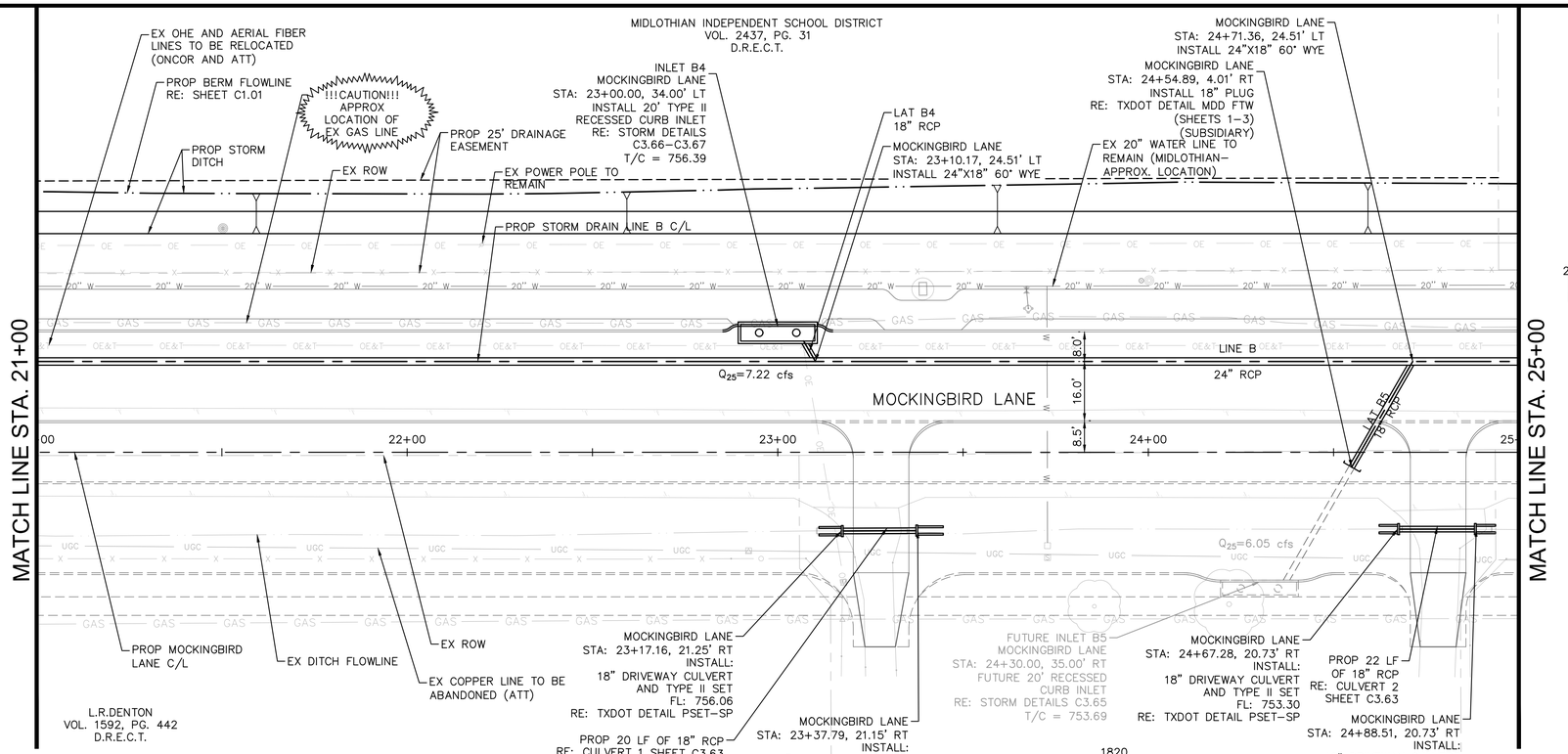
SHEET NUMBER

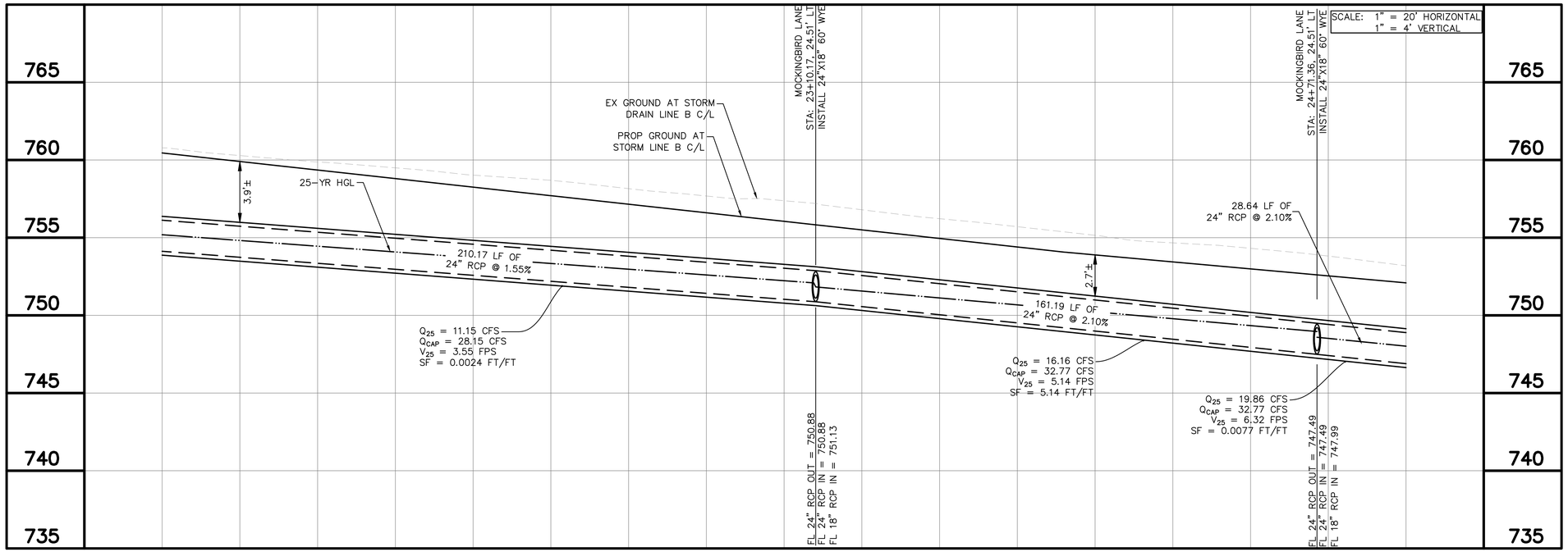
C3.25

2026-08-21 13:08:16, Del Rosso, Austin
2026-08-21 12:44:16 (STORM DRAIN LINE B – 16+50 TO STA 21+00)
Plotted, By:
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain line b.dwg
Filename:



KEY MAP





Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

STATE OF TEXAS
MISTY D. CHRISTIAN
103 REGISTERED
98384
PROFESSIONAL ENGINEER
8/21/2026

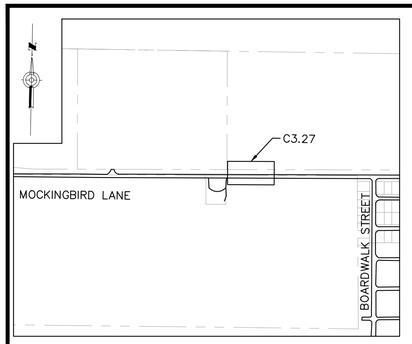
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

STORM DRAIN LINE B -
STA 21+00 TO STA 25+00

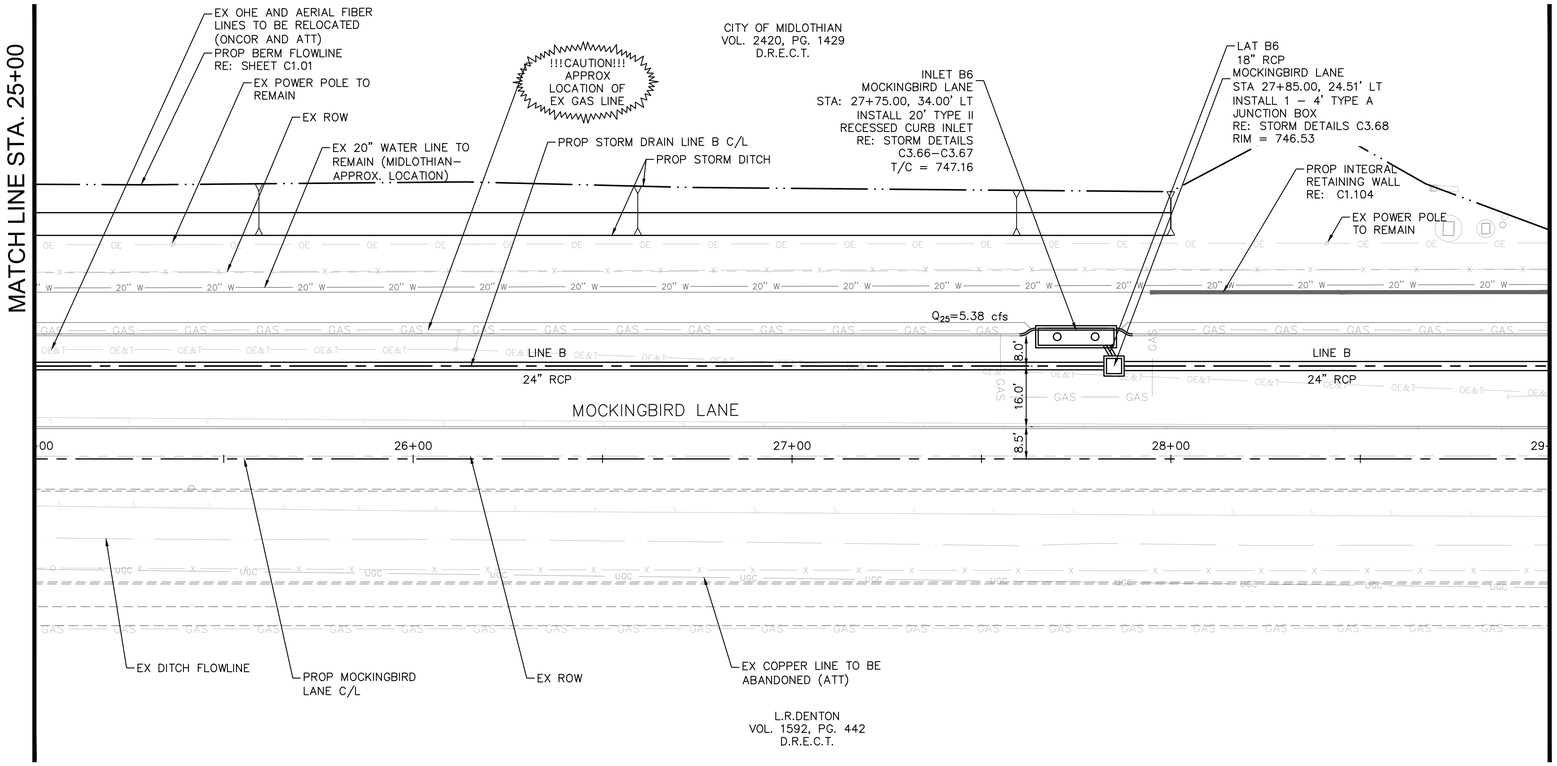
DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C3.26

2026-08-21 13:08:35, Del Rosso, Austin
Plotted, By: 2026-08-21 12:44:16 (STORM DRAIN LINE B – STA 21+00 TO STA 25+00)
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain line b.dwg
Filename:



KEY MAP

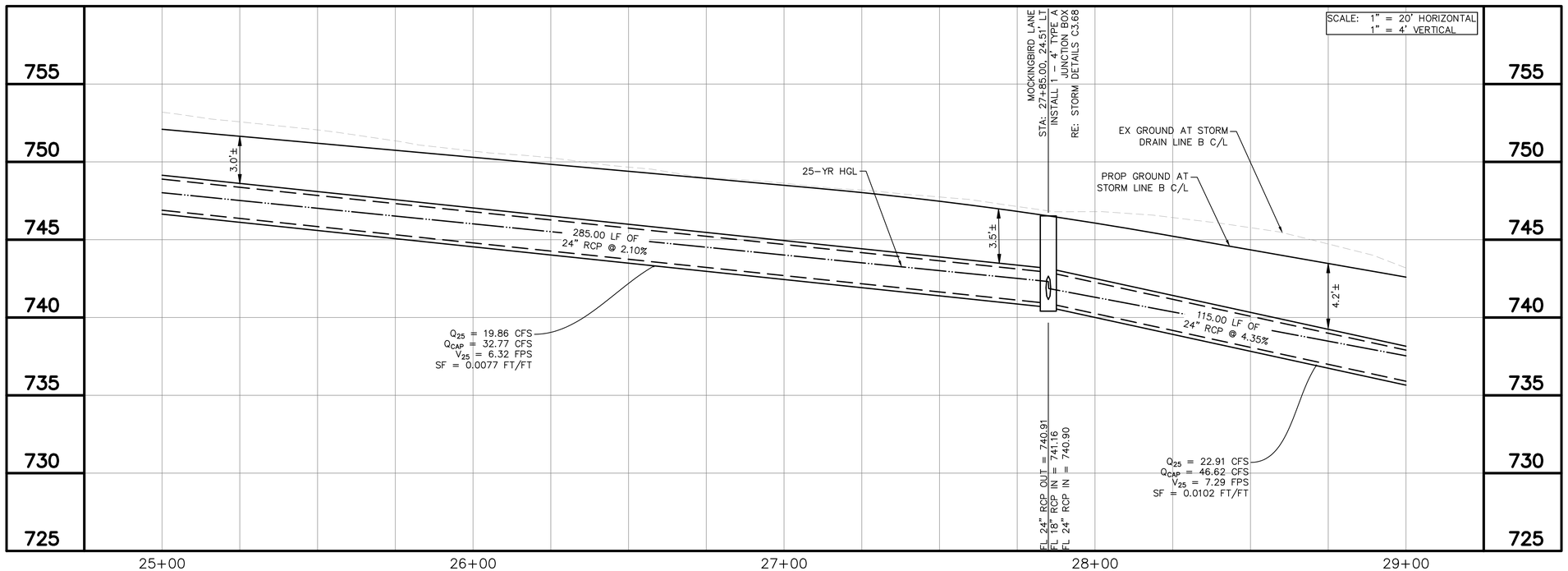


GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE: 1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 40 FT



Kimley»Horn

No.	Revision	By	Date

801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

8/21/2026

STATE OF TEXAS — MISTY D. CHRISTIAN — 98384 — LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

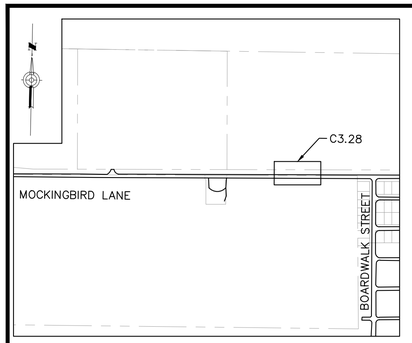
STORM DRAIN LINE B -
STA 25+00 TO STA 29+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

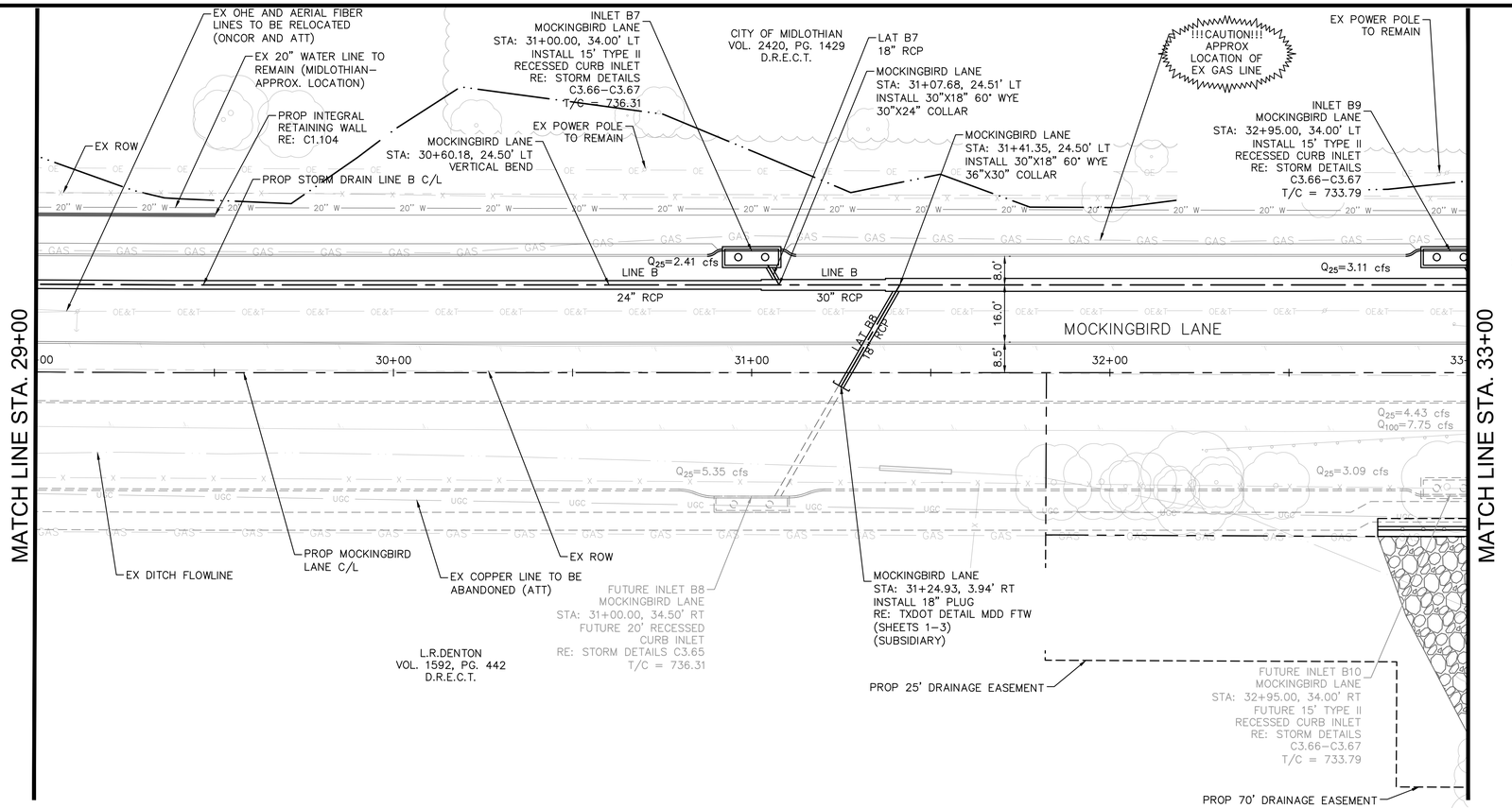
SHEET NUMBER

C3.27

Plotted By: 2026-08-21 13:08:54, Del Rosso, Austin
Last Saved: 2026-08-21 12:44:16 (STORM DRAIN LINE B – STA 25+00 TO STA 29+00)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain line b.dwg



KEY MAP

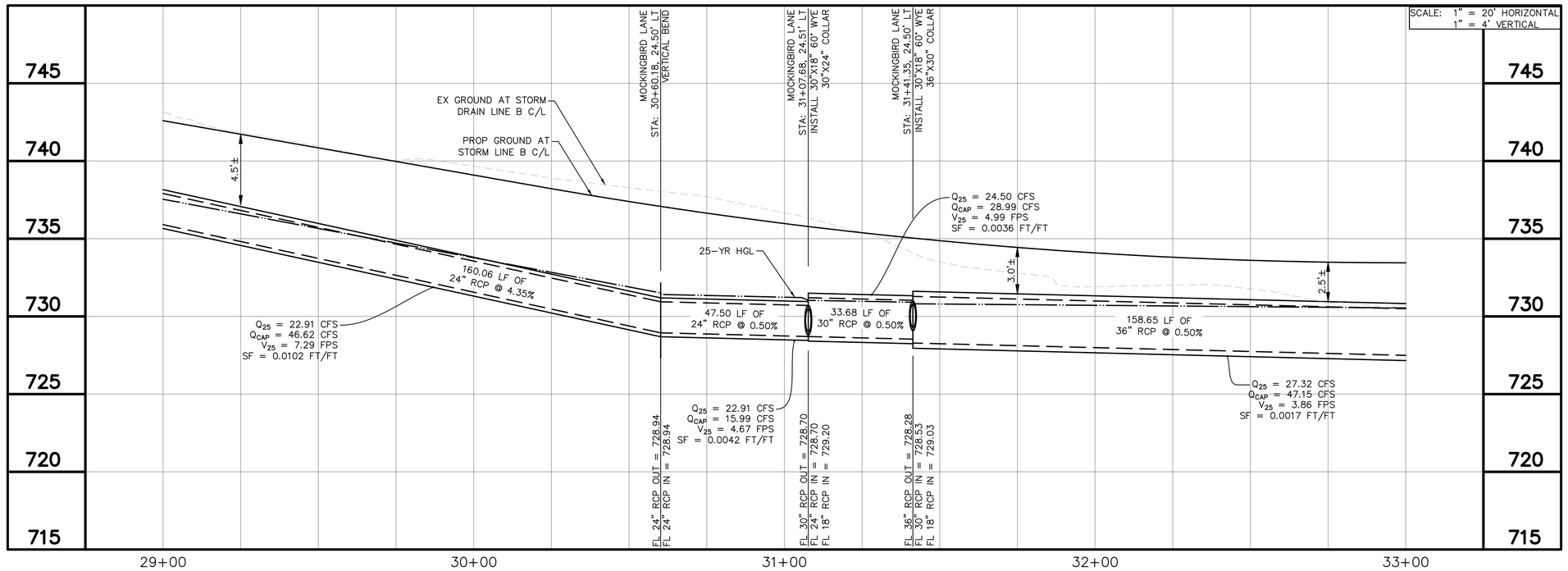


GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT



Kimley»Horn

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8/21/2026

STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

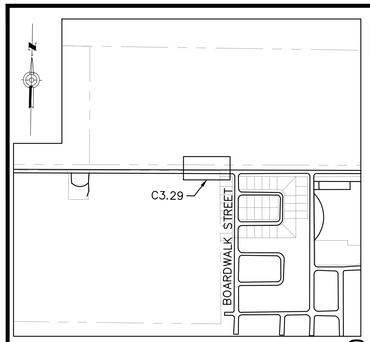
STORM DRAIN LINE B - STA 29+00 TO STA 33+00

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER

C3.28

Plotted By: 2026-08-21 13:09:12, Del Rosso, Austin
Last Saved: 2026-08-21 12:44:16 (STORM DRAIN LINE B – STA 29+00 TO STA 33+00)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain line b.dwg



KEY MAP

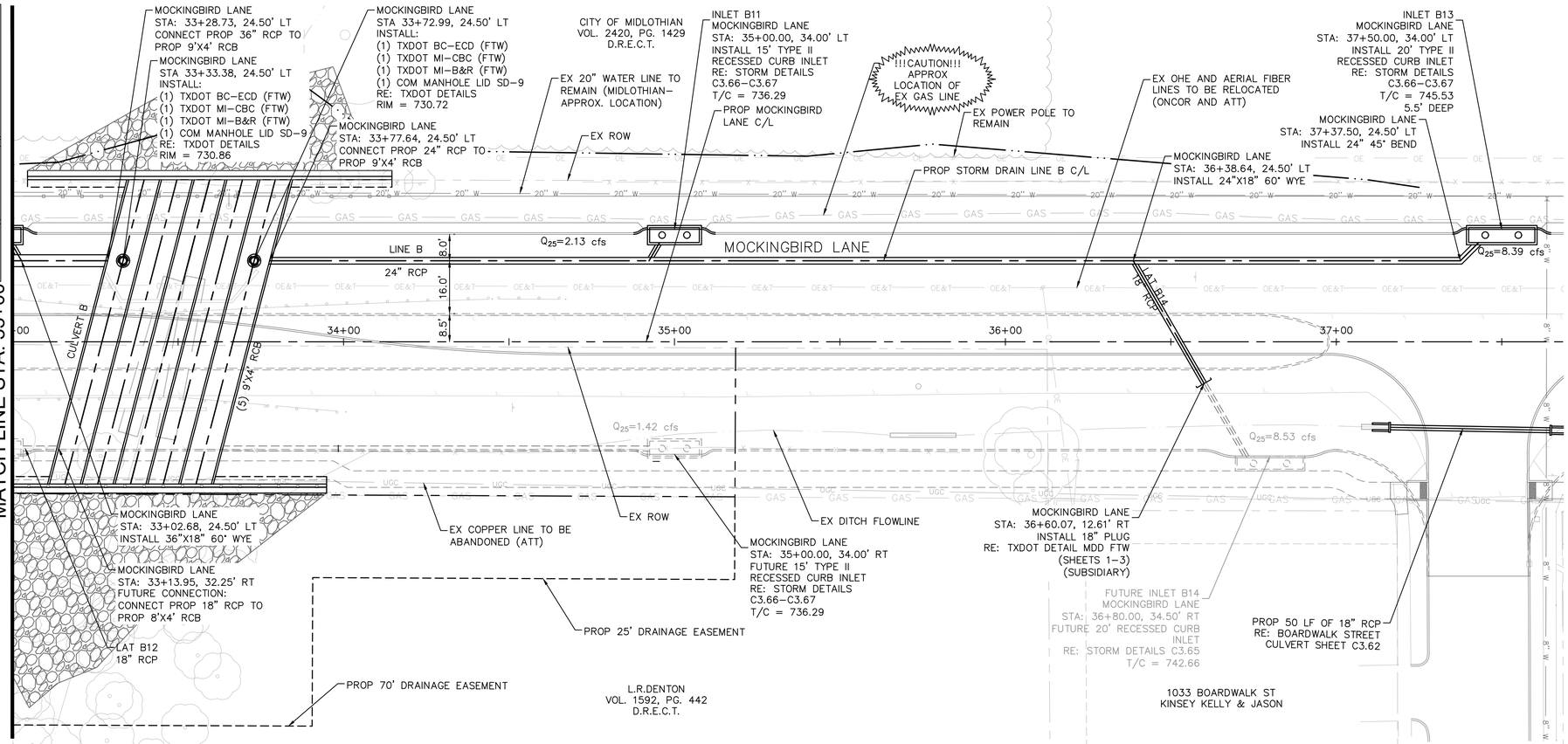
GRAPHIC SCALE

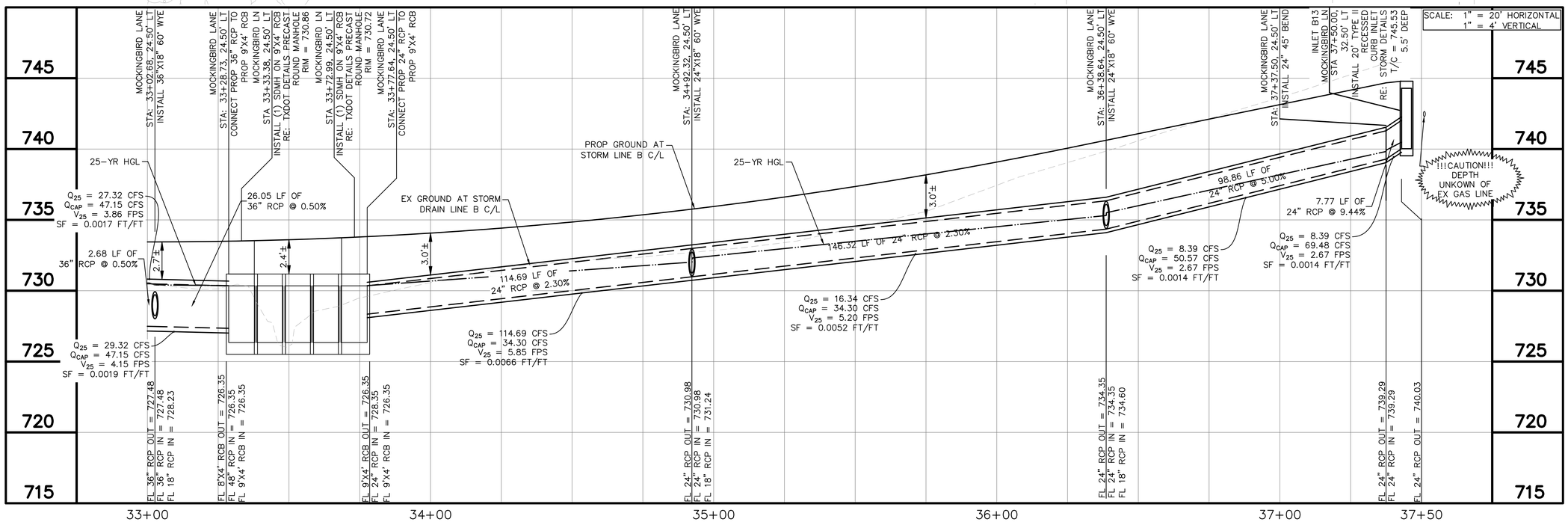
20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

MATCH LINE STA. 33+00





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8/21/2026
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98384
LICENSED PROFESSIONAL ENGINEER

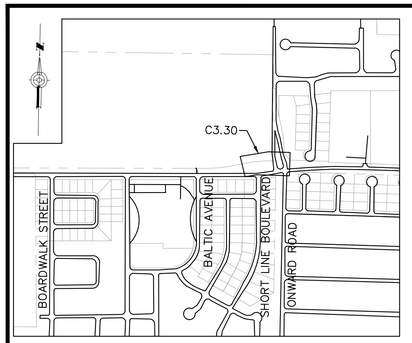
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

STORM DRAIN LINE B -
STA 33+00 TO END

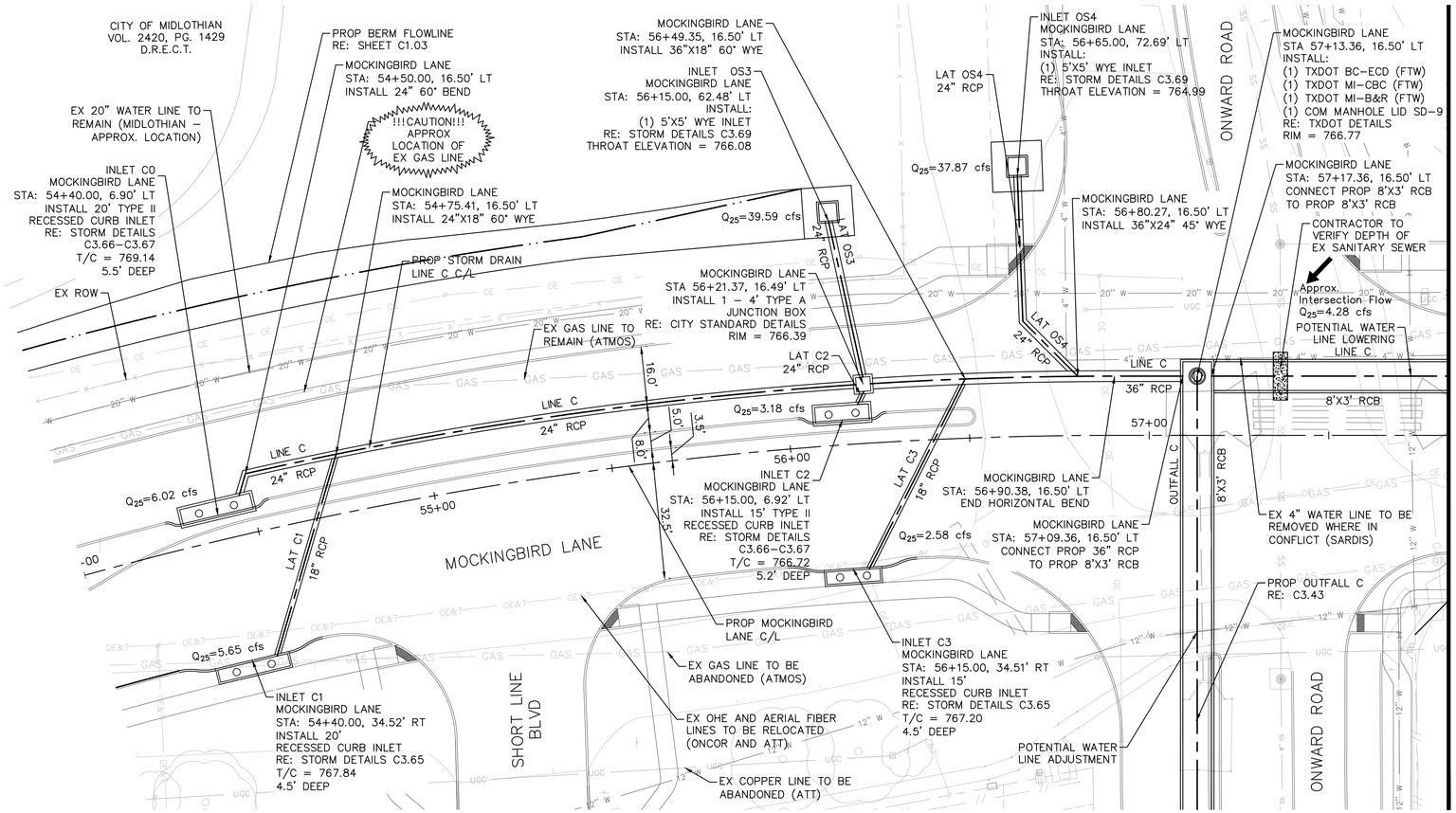
DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

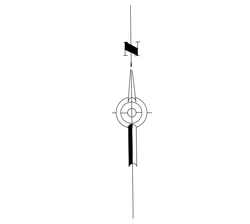
SHEET NUMBER
C3.29

2026-08-21 13:09:34, Del Rosso, Austin
2026-08-21 12:44:16 (STORM DRAIN LINE B - STA 33+00 TO END)
Plotted, By:
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain line b.dwg
Filename:



KEY MAP



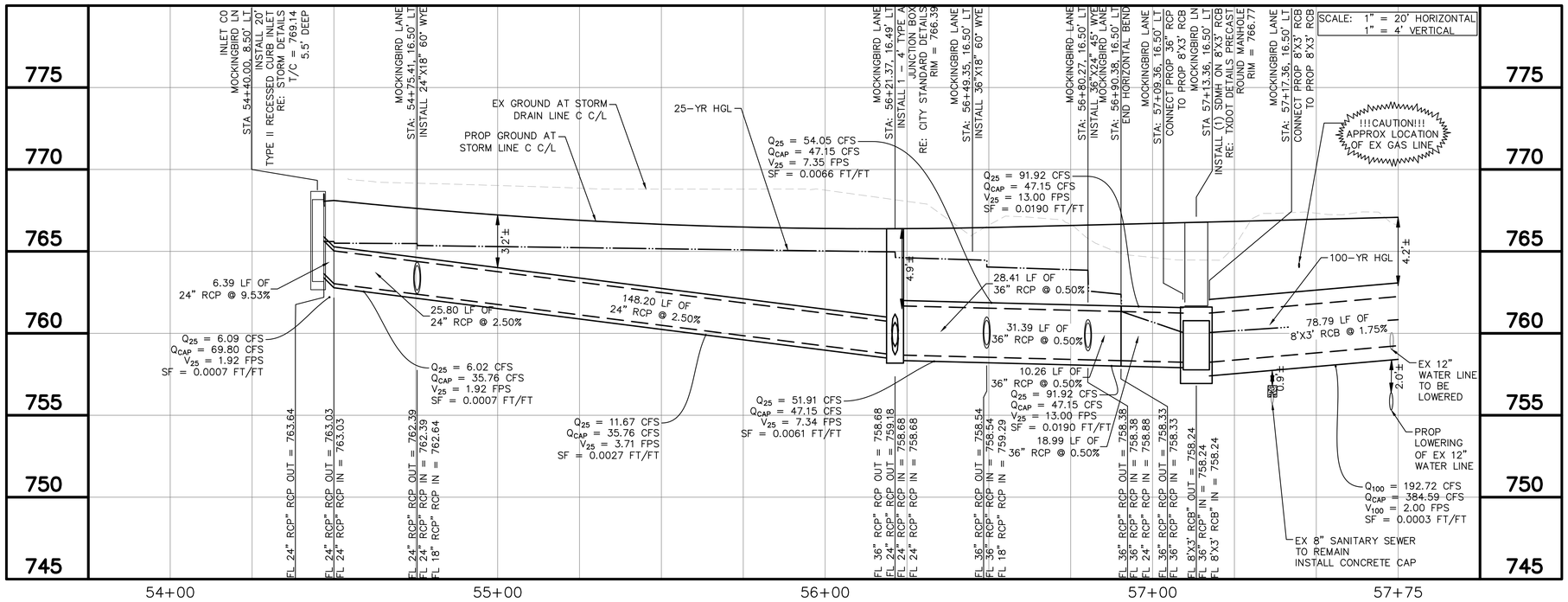


ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

NOTE TO CONTRACTOR:

INTENT IS FOR CONTRACTOR TO PROTECT EX SEWER LINE AND PLACE CONCRETE CAP. IF SEWER IS IN CONFLICT, STORM MAY NEED TO BE ADJUSTED.



Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
KRISTY H. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

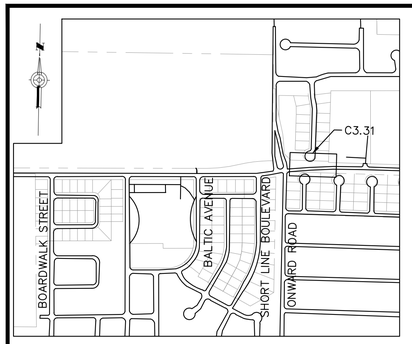
STORM DRAIN LINE C - BEGIN TO STA 57+75

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C3.30

2026-08-21 13:10:25, Del Rosso, Austin
2026-08-21 12:50:25 (STORM DRAIN LINE C – BEGIN TO STA 57+75)
Plotted, By:
Last Saved: k:\tw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain line c.dwg
Filename:



KEY MAP

MATCH LINE STA. 57+75

MOCKINGBIRD LANE
STA: 57+96.15, 16.50' LT
CONNECT 18" RCP TO 8'X3' RCB

MOCKINGBIRD LANE
STA: 58+12.90, 16.50' LT
CONNECT 18" RCP TO 8'X3' RCB
BEGIN HEADWALL
STA: 58+24.30
OFF: 49.89'LT

CONTRACTOR TO INSTALL 11 CY OF 6" CONCRETE. FLUME TO MATCH THE EXISTING GEOMETRY OF THE EXISTING DITCH
RE: SHEET C3.56

MOCKINGBIRD LANE
STA: 58+42.72, 49.89' LT
INSTALL:
(1) PW-2 HEADWALL
RE: TXDOT DETAILS PW

LAT OS5A
4'X3' RCB

END HEADWALL
STA: 58+61.14
OFF: 49.89'LT

MOCKINGBIRD LANE
STA: 58+50.14, 16.50' LT
CONNECT 30" RCP
TO 8'X3' RCB
INSTALL:
(1) TXDOT DETAIL BC-ECD
RE: TXDOT DETAILS

LINE C

8'X3' RCB

Q_{25}=1.49 cfs

58+00

59+00

60+00

61+00

62+00

LAT C5
18" RCP

LAT C4
18" RCP

INLET C4
MOCKINGBIRD LANE
STA: 58+25.00, 5.50' RT
INSTALL 10' TYPE II
RECESSED CURB INLET
RE: STORM DETAILS
C3.66-C3.67
T/C = 767.43
4.5' DEEP

Q_{25}=1.23 cfs

INLET C5
MOCKINGBIRD LANE
STA: 58+25.00, 34.00' RT
INSTALL 10' TYPE II
RECESSED CURB INLET
RE: STORM DETAILS
C3.66-C3.67
T/C = 766.85
4.5' DEEP

1145 STARLING CIR
MORRIS HEATHER
& ALEXANDER

MOCKINGBIRD LANE
STA: 58+42.72, 16.50' LT
CONNECT 4'X3' RCB
TO 8'X3' RCB
INSTALL:
(1) COM MANHOLE LID
(1) TXDOT DETAIL MI-B&R (FTW)
(1) TXDOT DETAIL MI-CBC (FTW)
RE: TXDOT DETAILS

16.0'
16.5'
3.5'
5.0'
24.0'

PROP STORM DRAIN LINE C C/L

EX GAS LINE TO REMAIN (ATMOS)

!!!CAUTION!!!
APPROX
LOCATION OF
EX GAS LINE

EX ROW

MOCKINGBIRD LANE
STA 59+67.59, 16.50' LT
INSTALL 1 – 4' TYPE A
JUNCTION BOX
RE: CITY STANDARD DETAILS
RIM = 769.02

1146 STARLING CIR
SEAGO DAVID

PROP 12" WATER LINE
BY OTHERS (SARDIS)

MOCKINGBIRD LANE
STA: 59+82.20, 16.50' LT
INSTALL 24"X18" 60° WYE

INLET C6
MOCKINGBIRD LANE
STA: 60+00.00, 35.00' LT
INSTALL 20'
RECESSED CURB INLET
RE: STANDARD CITY DETAILS
T/C = 769.93
4.5' DEEP

EX ROW

EX 4" WATER LINE TO BE
ABANDONED (SARDIS)

Q_{25}=4.36 cfs

MOCKINGBIRD LANE
LINE C

30" RCP

24" RCP

LAT C6
18" RCP

LAT C7
18" RCP

Q_{25}=4.24 cfs

EX GAS LINE TO BE
ABANDONED (ATMOS)

INLET C7
MOCKINGBIRD LANE
STA: 60+00.00, 34.00' RT
INSTALL 20' TYPE II
RECESSED CURB INLET
RE: STORM DETAILS
C3.66-C3.67
T/C = 769.44
4.5' DEEP

1302 GREENROCK CT
KASSEN CLINTON K &
HANNAH J

POTENTIAL WATER LINE LOWERING
EX 20" WATER LINE TO REMAIN
(MIDLOTHIAN – APPROX. LOCATION)

MOCKINGBIRD LANE
STA: 61+31.08, 16.50' LT
INSTALL 24" 45° BEND

WYE INLET OS5B
MOCKINGBIRD LANE
STA: 61+65.00, 52.42' LT
INSTALL 1 – 4'
STANDARD WYE INLET
RE: STORM DETAILS C3.69
THROAT ELEV = 774.00
3.5' DEEP

3221 MOCKINGBIRD LN
THE SHEPHERD'S HOUSE OF
THE NAZARENE
VOL. 2307, PG. 2208
D.R.E.C.T.

CONTRACTOR
TO CONNECT
FLUME INTO
INLET APRON

PROP 20'
DRAINAGE
EASEMENT

Q_{25}=27.79 cfs

LAT OS5B
24" RCP

PROP MOCKINGBIRD
LANE C/L

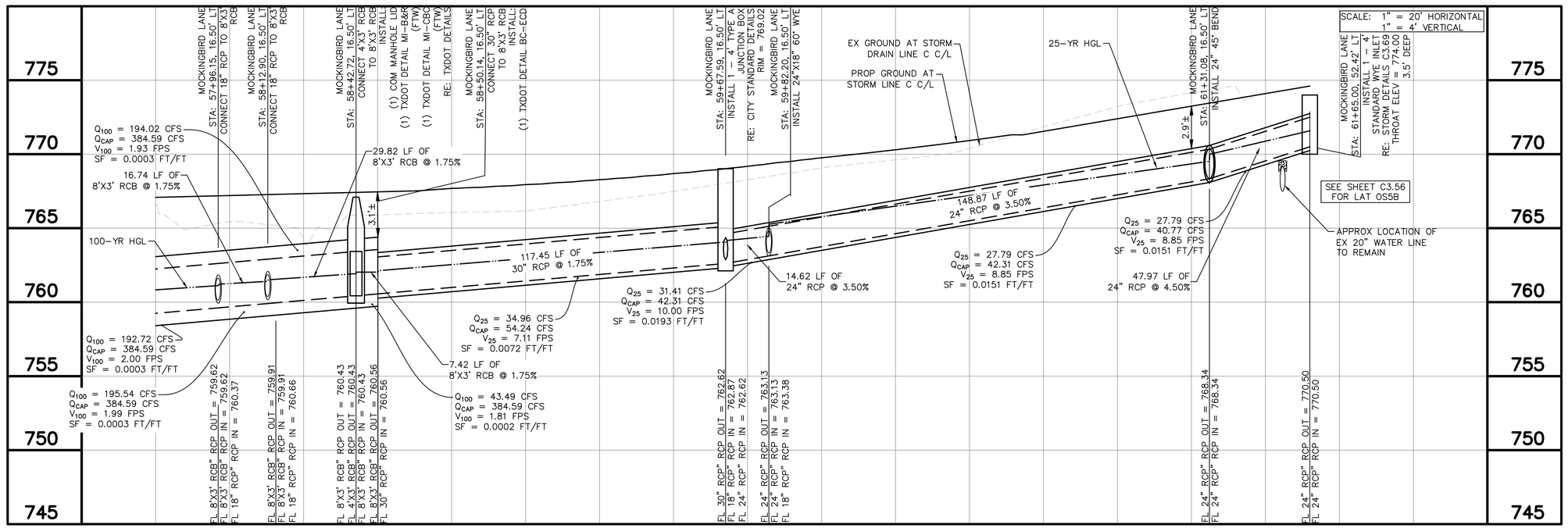
PROP INTEGRAL
RETAINING WALL
RE: C1.104

1145 FINCH CIR
KETTER STEPHEN
& JENNIFER

GRAPHIC SCALE
20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT



Kimley»Horn
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No.	Revision	By	Date

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REGISTERED PROFESSIONAL ENGINEER

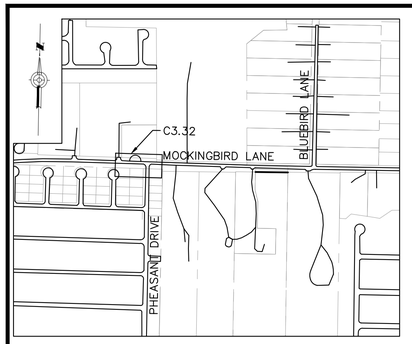
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

STORM DRAIN LINE C -
STA 57+75 TO END

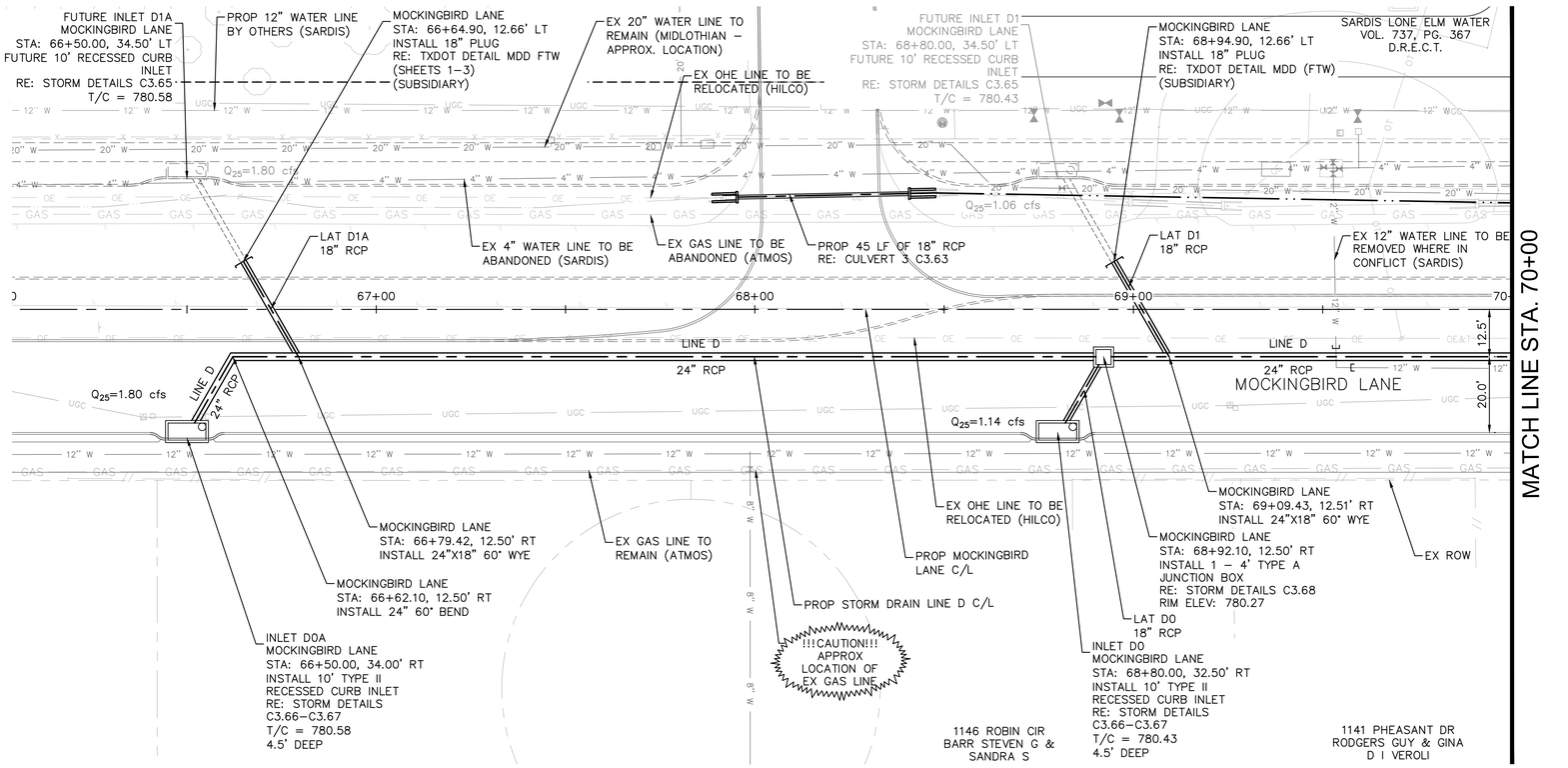
DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

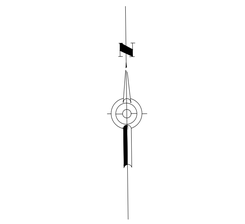
SHEET NUMBER
C3.31

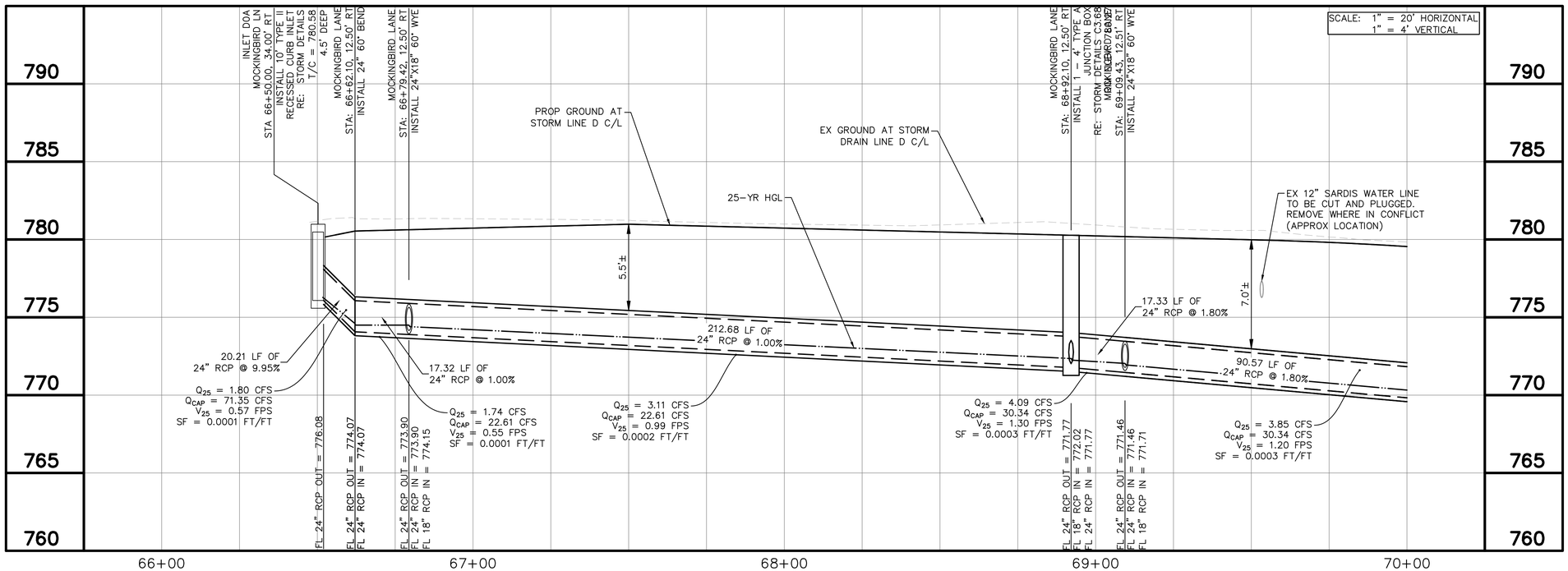
Plotted By: 2026-08-21 13:10:52, Del Rosso, Austin
Last Saved: 2026-08-21 12:50:25 (STORM DRAIN LINE C – STA 57+75 TO END)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain line c.dwg



KEY MAP







Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

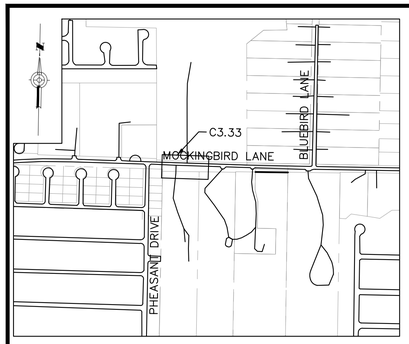
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

STORM DRAIN LINE D -
BEGIN TO STA 70+00

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C3.32

2026-08-21 13:11:29, Del Rosso, Austin
2026-08-21 12:57:15 (STORM DRAIN LINE D - BEGIN TO STA 70+00)
Plotted, By:
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain line d.dwg
Filename:



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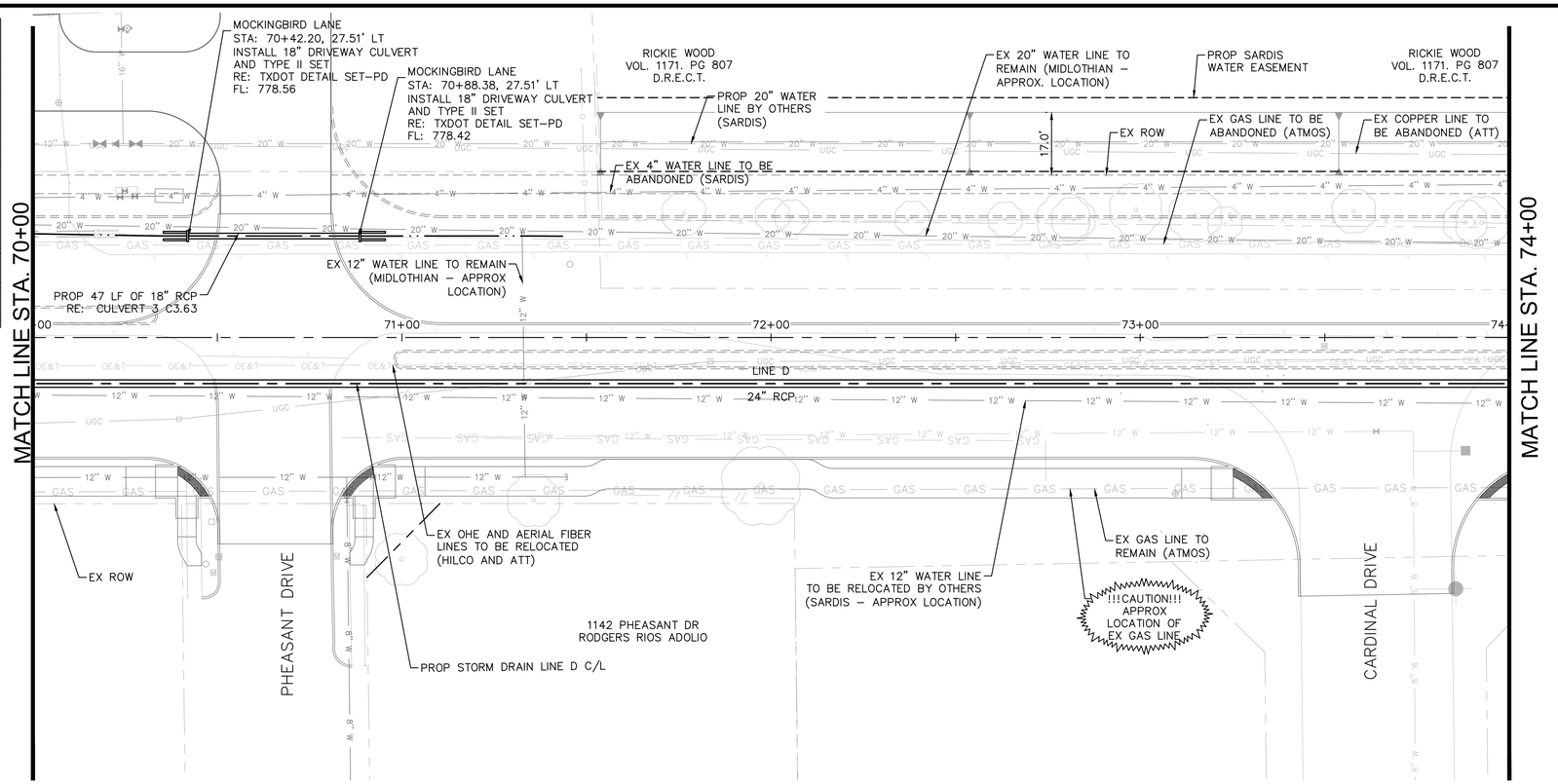
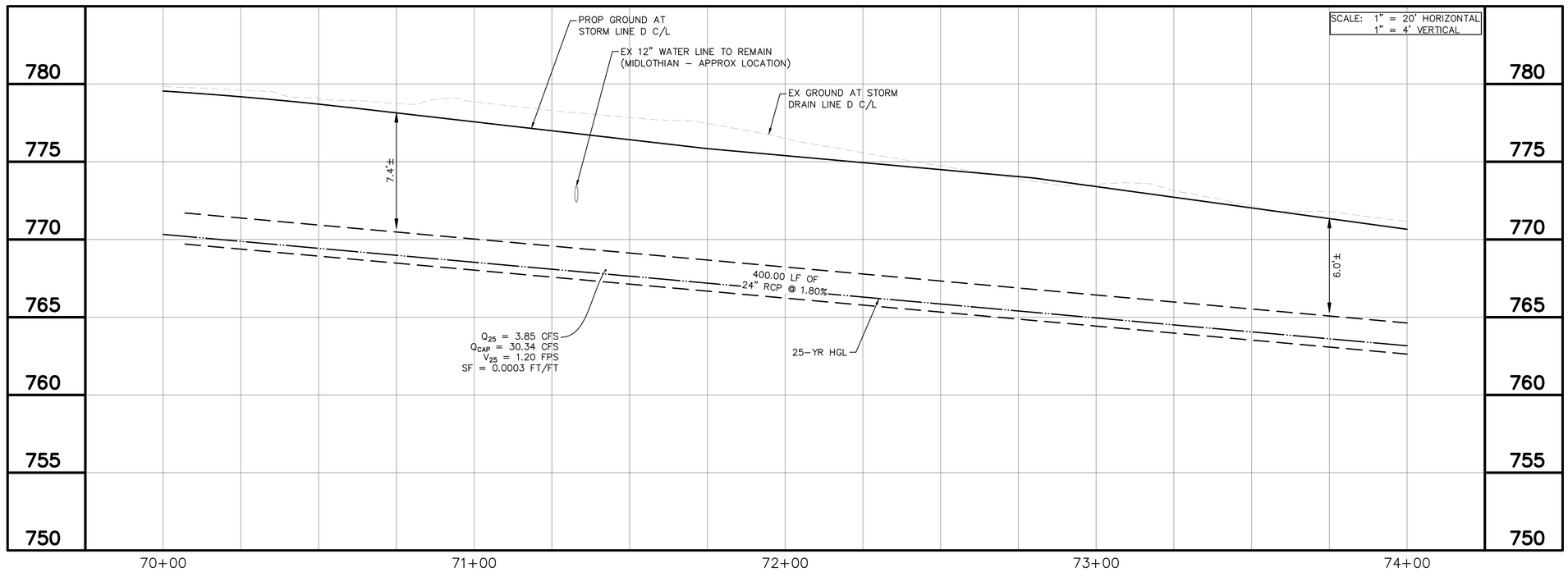
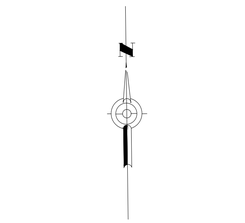






ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

Kimley»Horn

No.	Revision	By	Date

801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

8/21/2026

STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

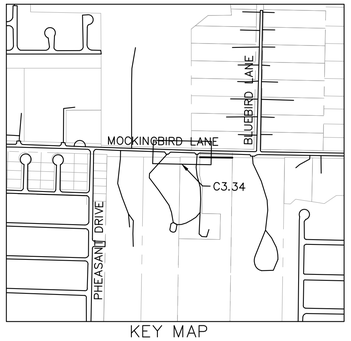
STORM DRAIN LINE D - STA 70+00 TO STA 74+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C3.33

Plotted, By: 2026-08-21 13:11:40, Del Rosso, Austin
Last Saved: 2026-08-21 12:57:15 (STORM DRAIN LINE D - STA 70+00 TO STA 74+00)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain line d.dwg



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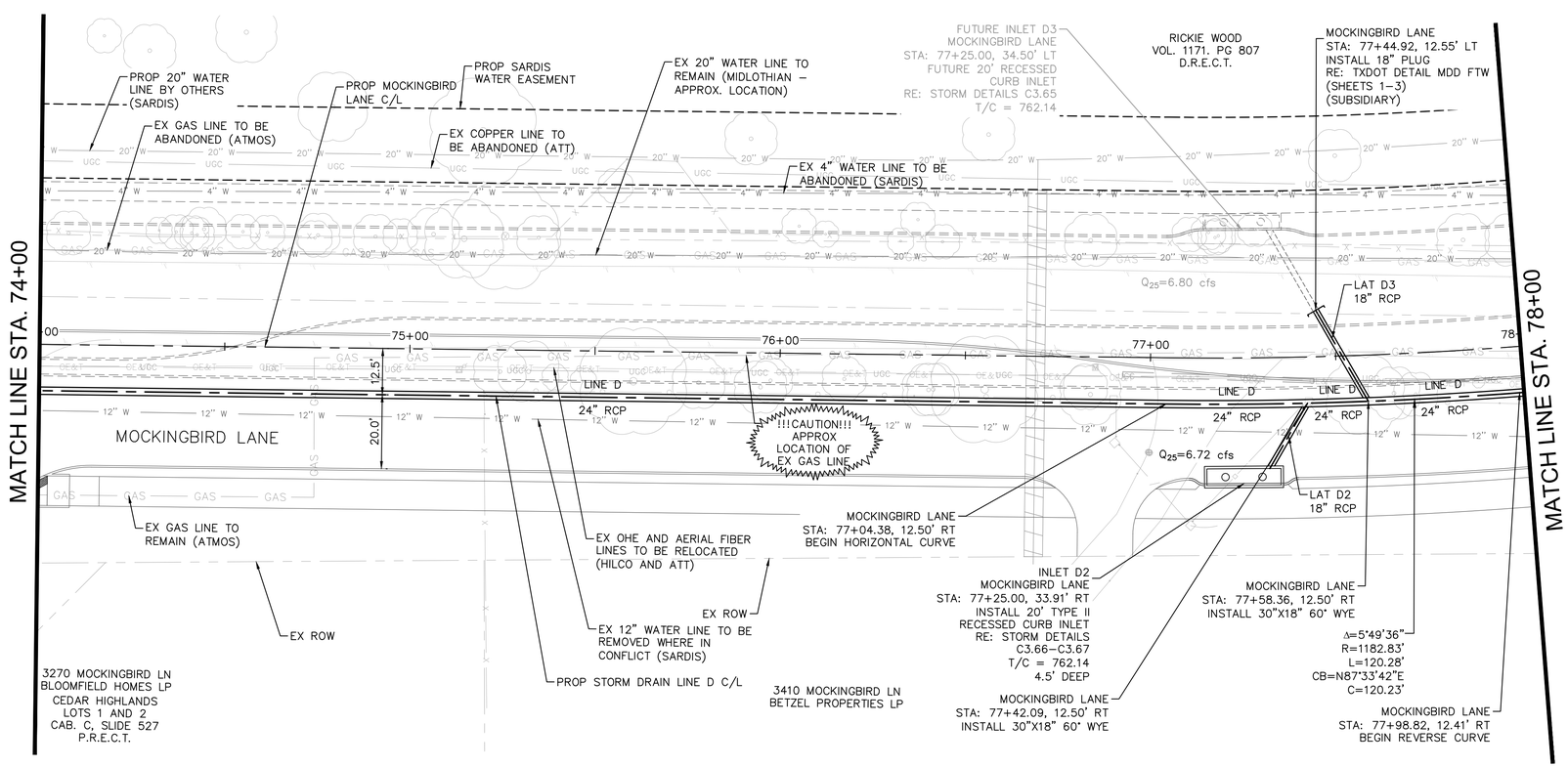
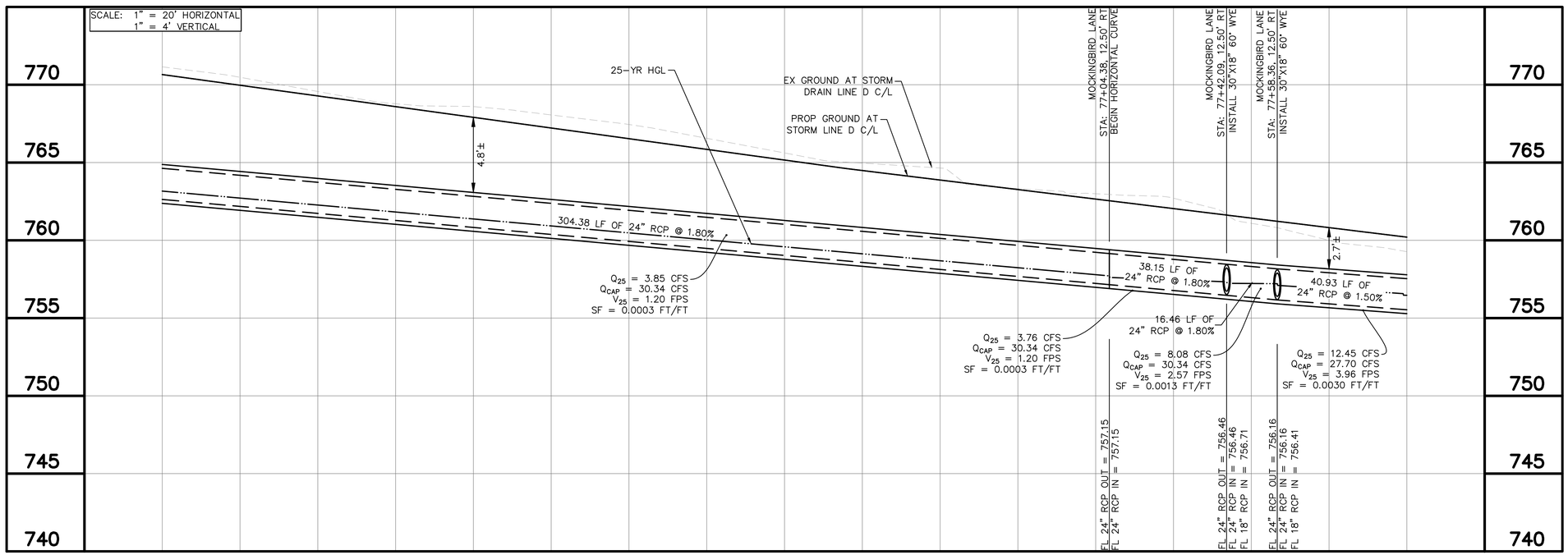


GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT



Kimley»Horn

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No.	Revision	By	Date

8/21/2026

MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

STORM DRAIN LINE D
- STA 74+00 TO 78+00

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER

C3.34

2026-08-21 13:11:52, Del Rosso, Austin
Plotted, By: 2026-08-21 12:57:15 (STORM DRAIN LINE D – STA 74+00 TO 78+00)
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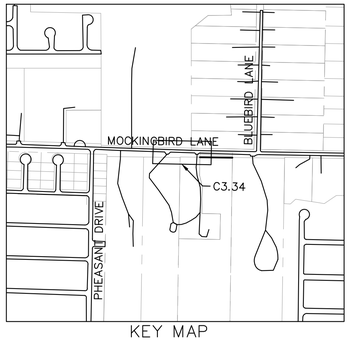
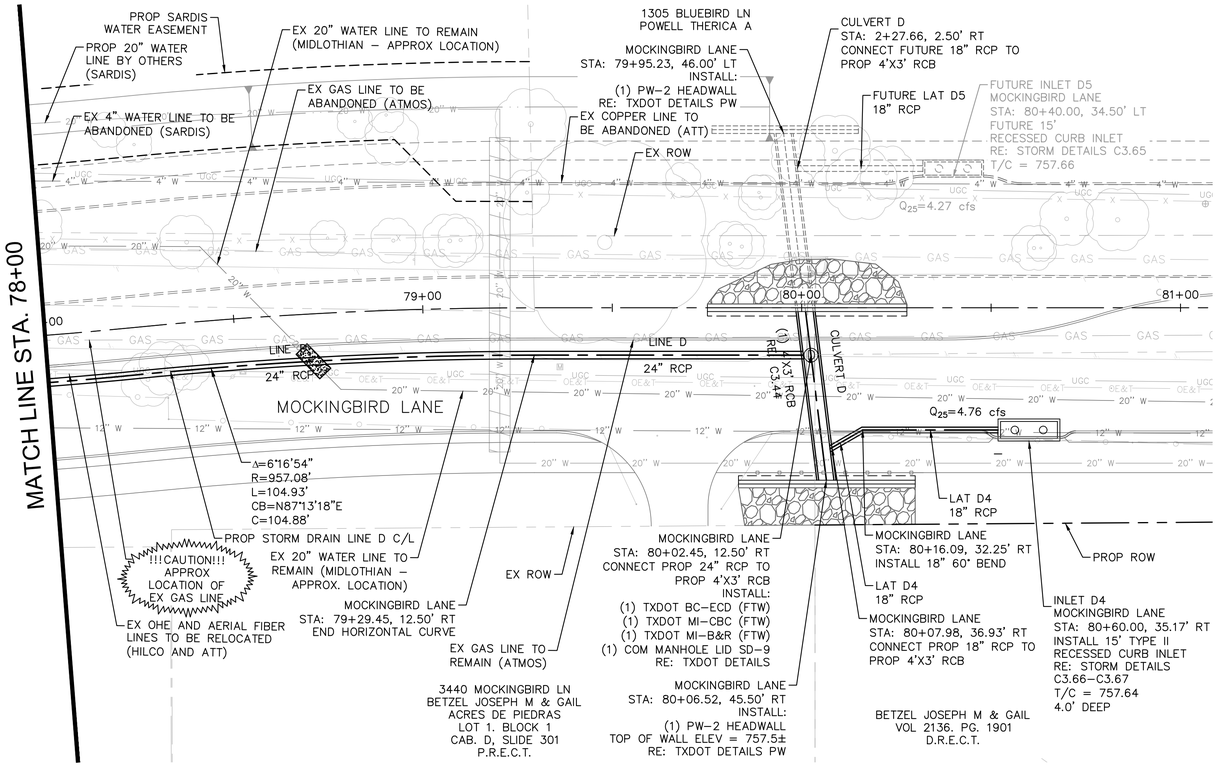
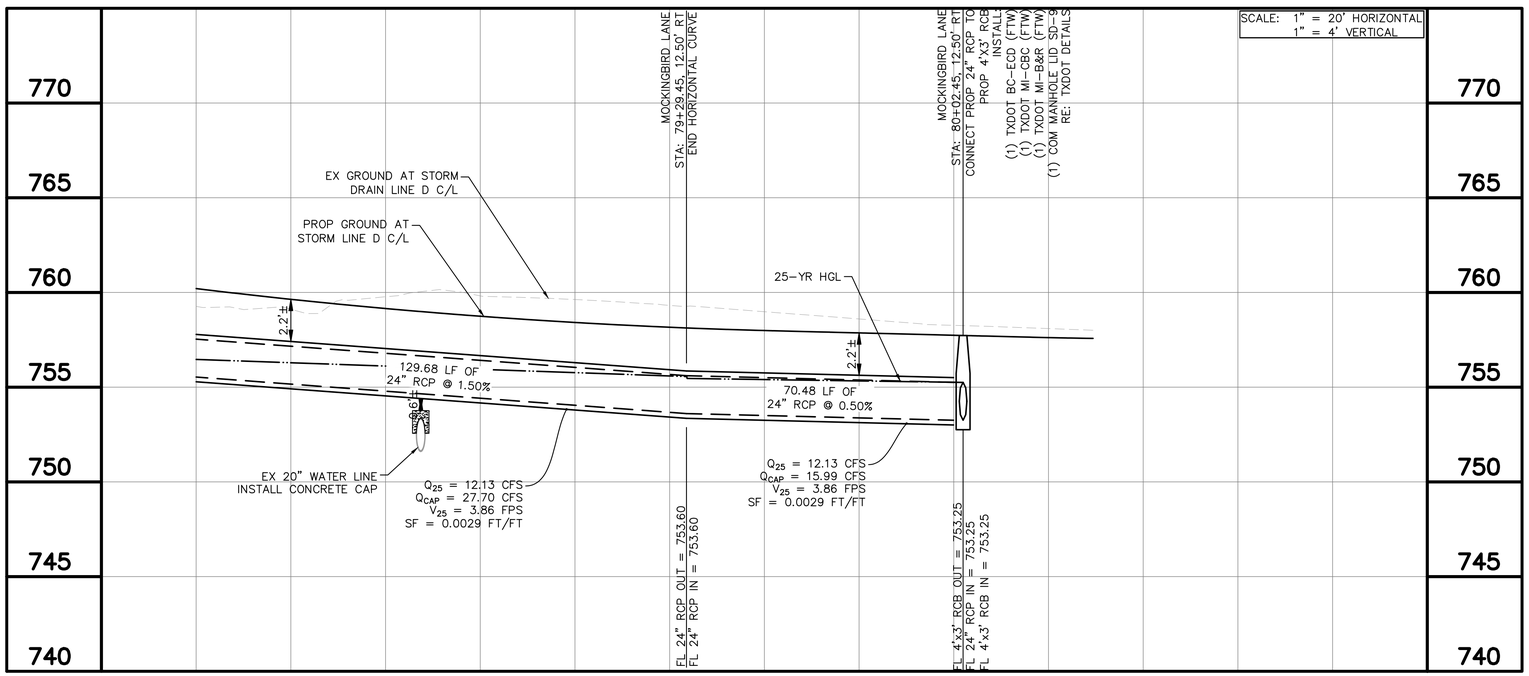
Filename:



KEY MAP





GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE: 1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 40 FT

NOTE TO CONTRACTOR:

INTENT IS FOR CONTRACTOR TO PROTECT EX 20" WL AND PLACE A CONCRETE CAP FOR PROTECTION AND COMPACTION. IF 20 WL IS IN CONFLICT, WATER LINE LOWERING QUANTITIES HAVE BEEN PROVIDED.

Kimley»Horn
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STATE OF TEXAS — MISTY D. CHRISTIAN — 98384 — REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

STORM DRAIN LINE D
- STA 78+00 TO END

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C3.35

Plotted By: 2026-08-21 13:12:03, Del Rosso, Austin
Last Saved: 2026-08-21 12:57:15 (STORM DRAIN LINE D - STA 78+00 TO END)
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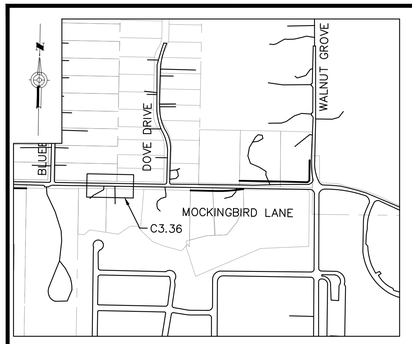

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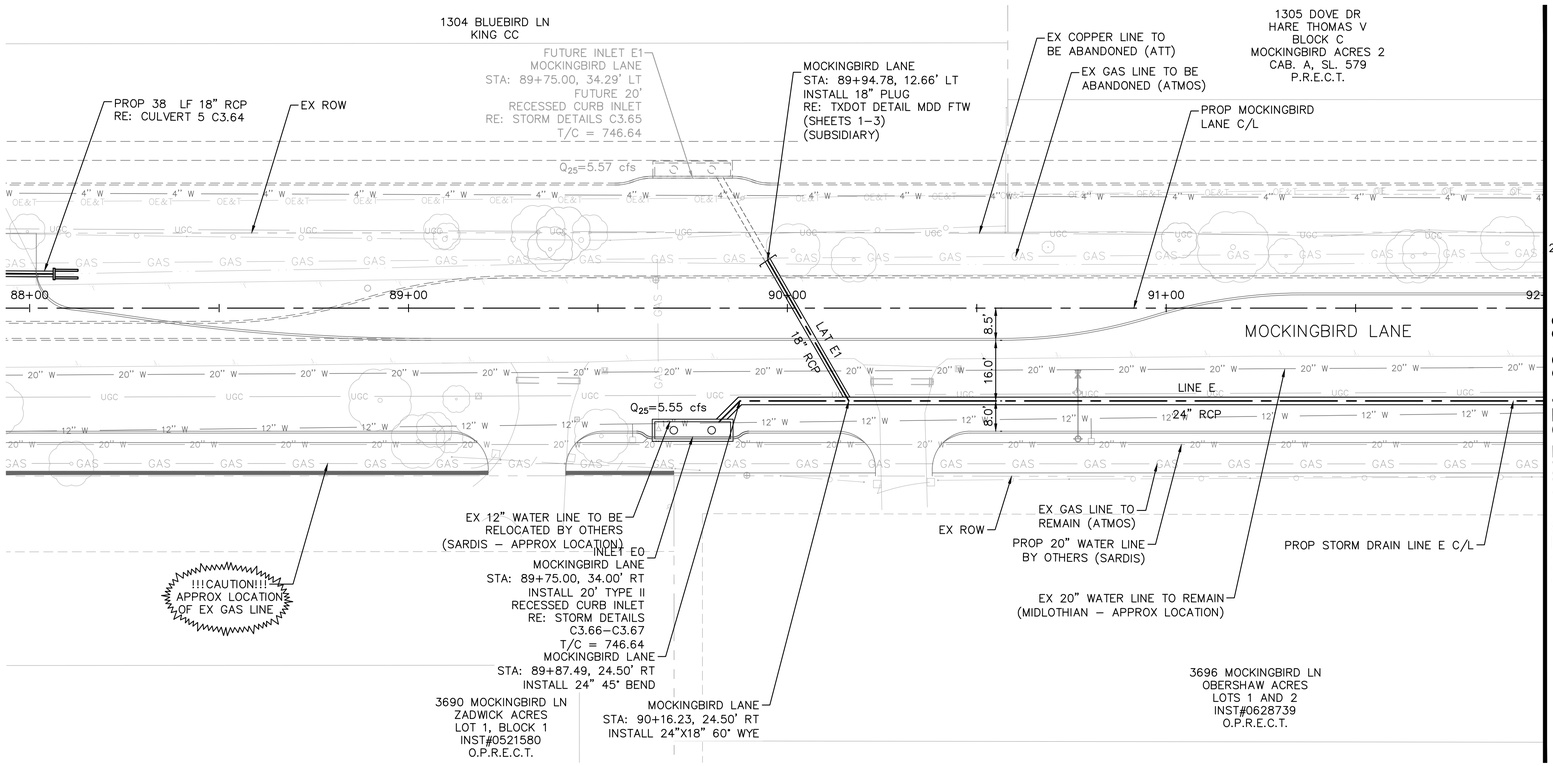

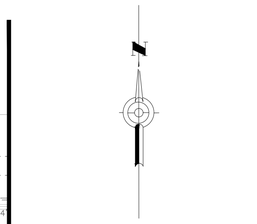

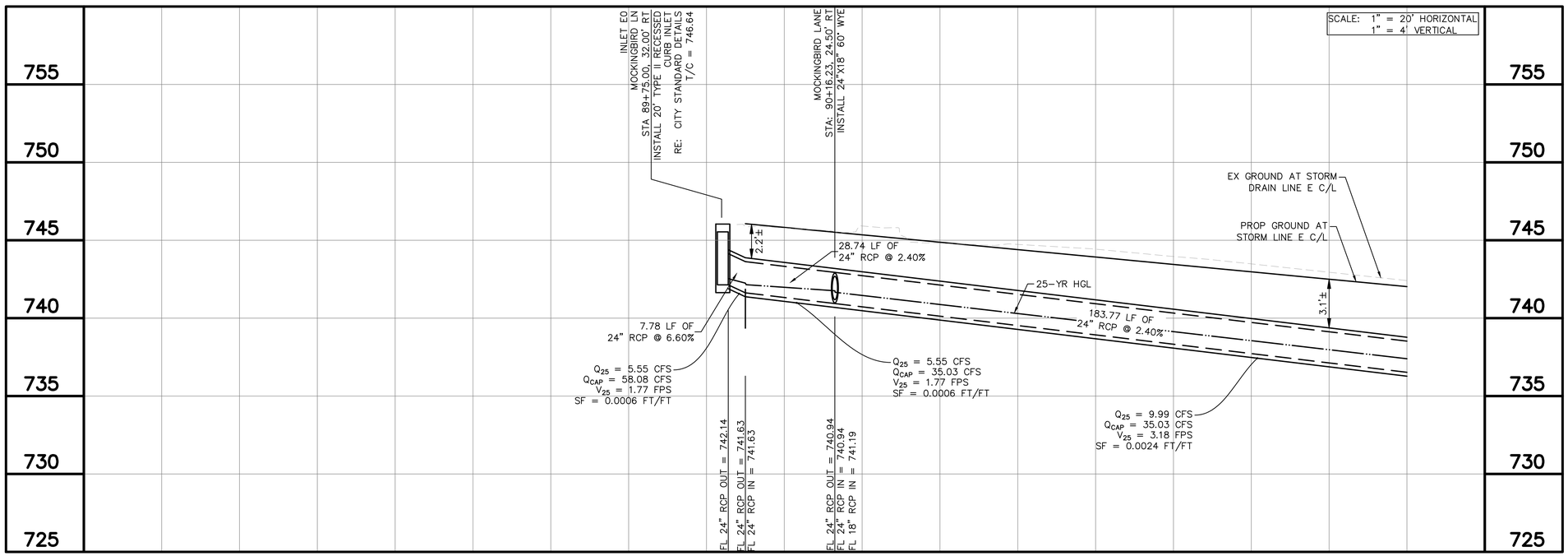

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REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

STORM DRAIN LINE E - BEGIN TO STA 92+00

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C3.36

Plotted By: 2026-08-21 13:06:22, Del Rosso, Austin
Last Saved: 2026-08-21 13:02:27 (STORM DRAIN LINE E - BEGIN TO STA 92+00)
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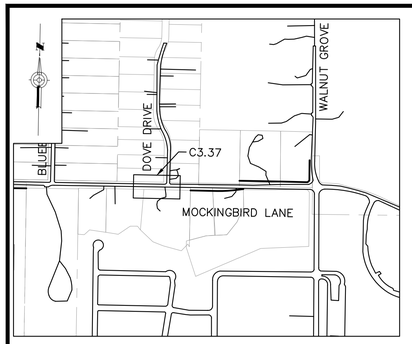

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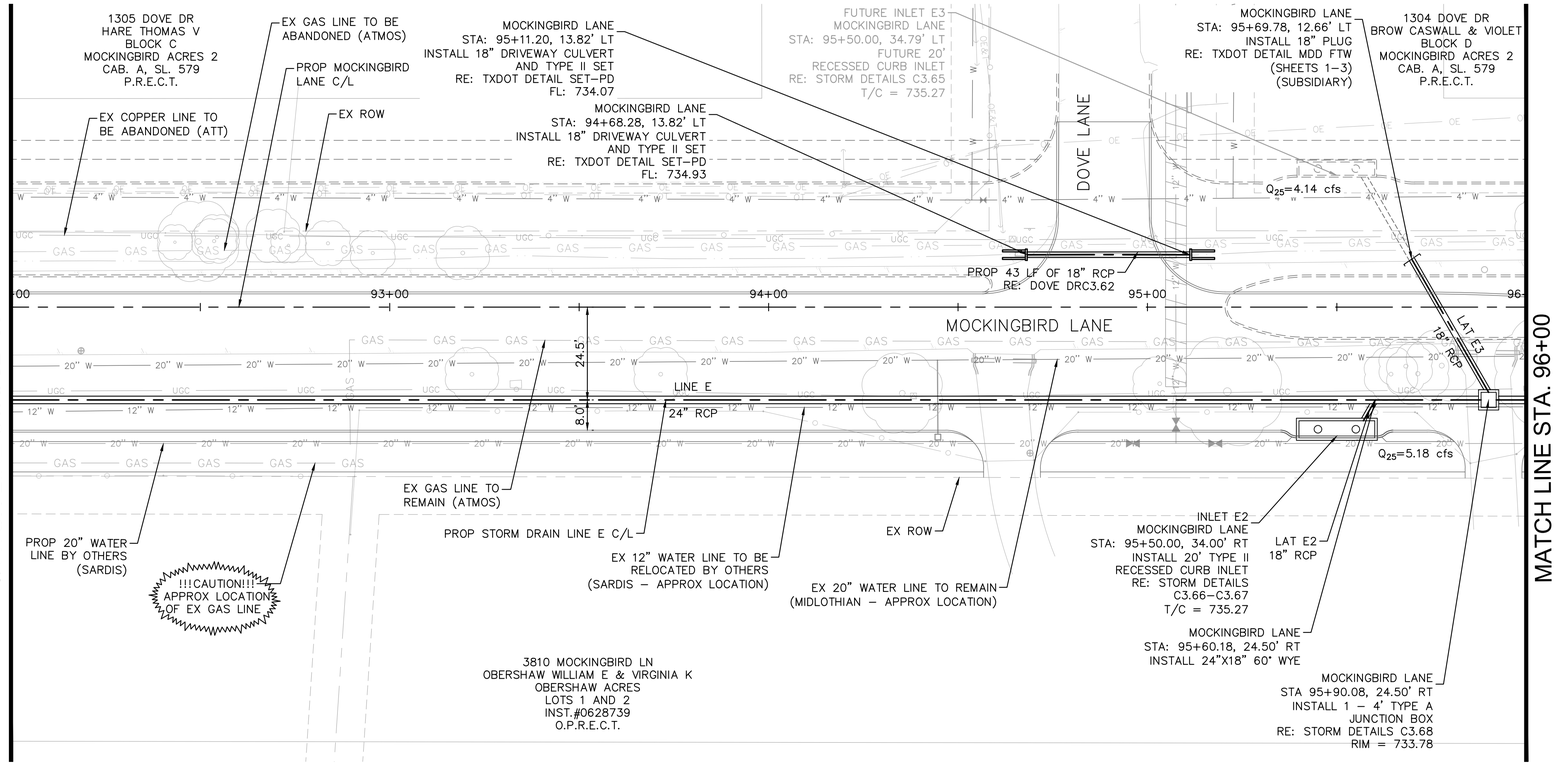
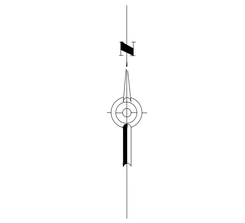
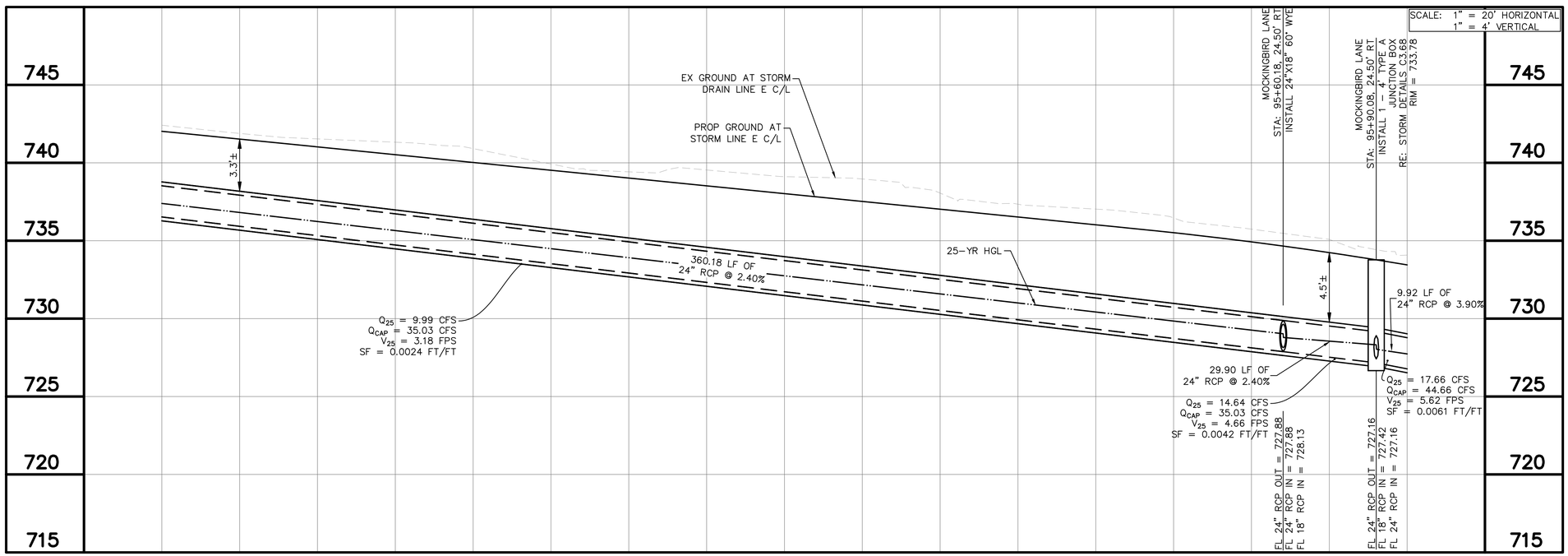




ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT



Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

STORM DRAIN LINE E -
STA 92+00 TO STA 96+00

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C3.37

2026-08-21 13:06:34, Del Rosso, Austin
Plotted, By: 2026-08-21 13:02:27 (STORM DRAIN LINE E - STA 92+00 TO STA 96+00)
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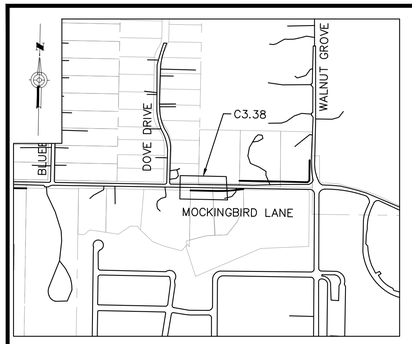
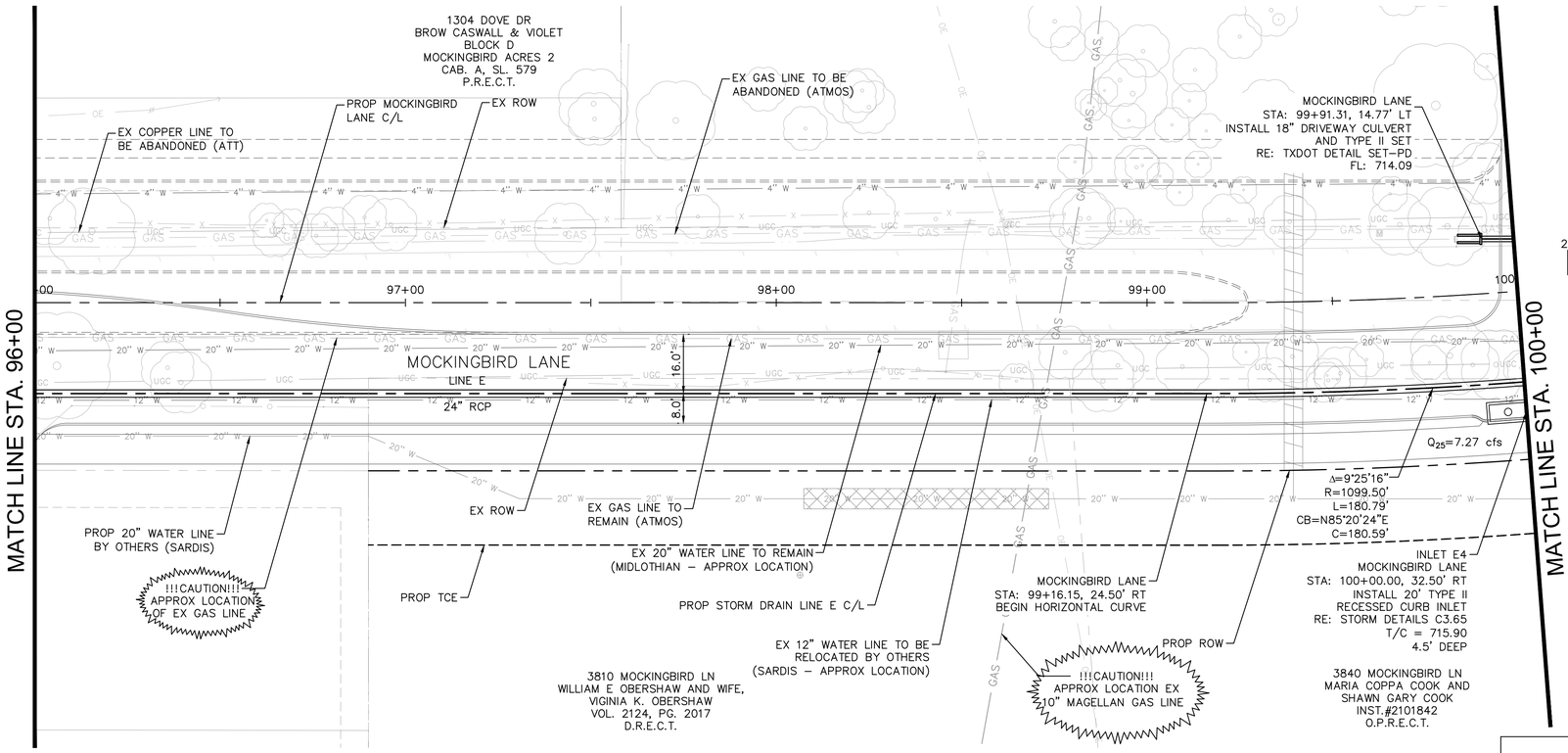
Filename:



KEY MAP



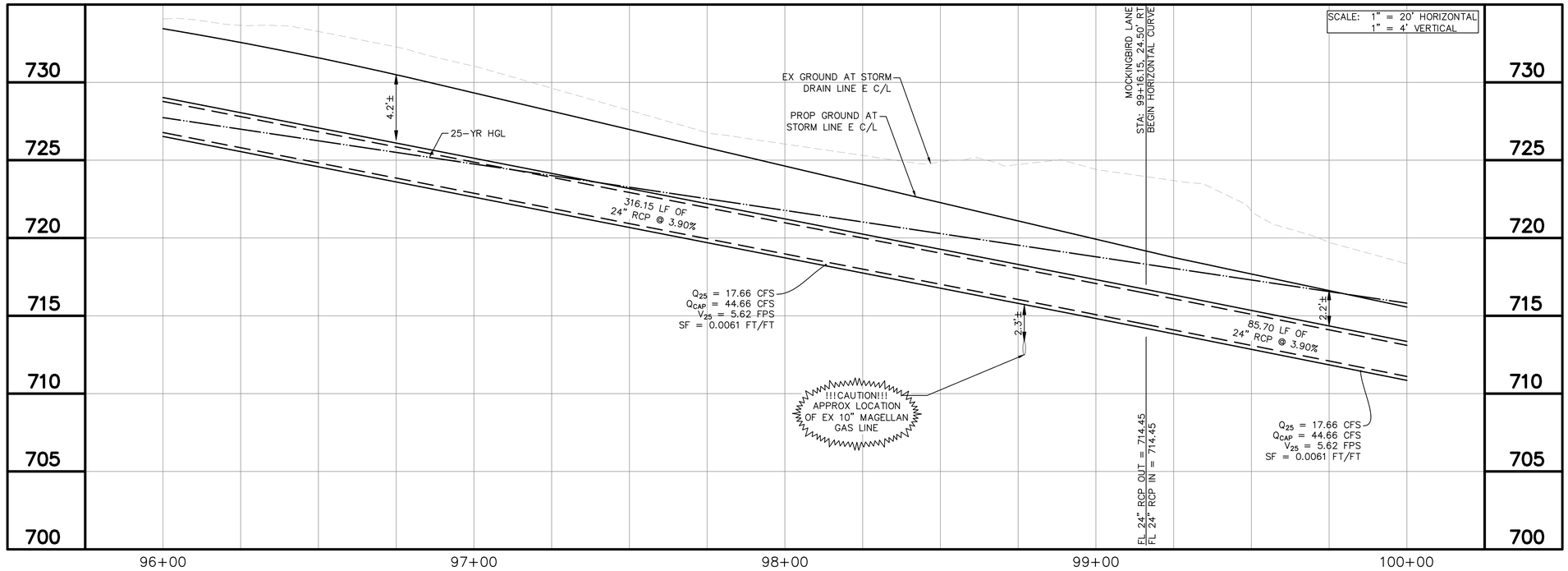
GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

WARNING
HIGH PRESSURE PIPELINE(S)
EXCAVATION AND/OR CONSTRUCTION PROHIBITED WITHOUT COMPLIANCE WITH **STATE ONE-CALL**, AND WITHOUT WRITTEN PERMISSION FROM **MAGELLAN PIPELINE COMPANY, L.P.**



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LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

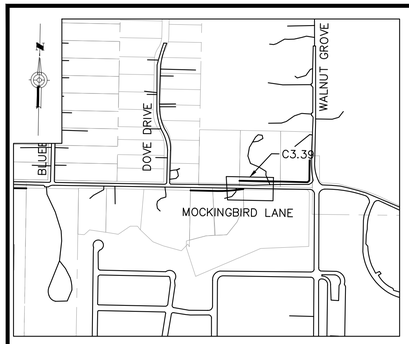
STORM DRAIN LINE E - STA 96+00 TO STA 100+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

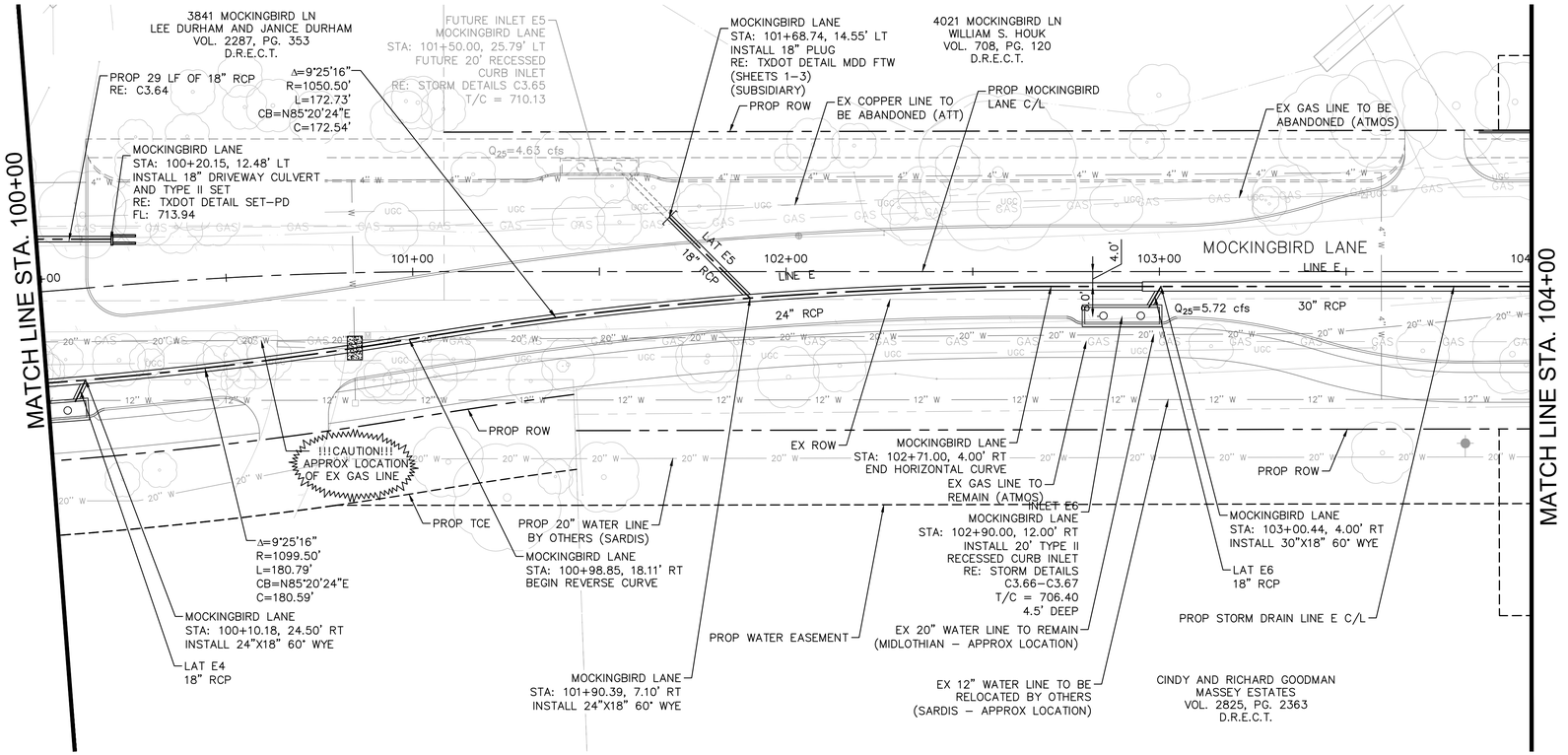
SHEET NUMBER

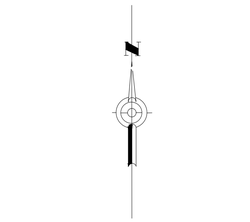
C3.38

2026-08-21 13:06:48, Del Rosso, Austin
Plotted, By: 2026-08-21 13:02:27 (STORM DRAIN LINE E – STA 96+00 TO STA 100+00)
Last Saved: k:\tfw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain line e.dwg
Filename: lane\cadd\sheets\storm drain line e.dwg



KEY MAP



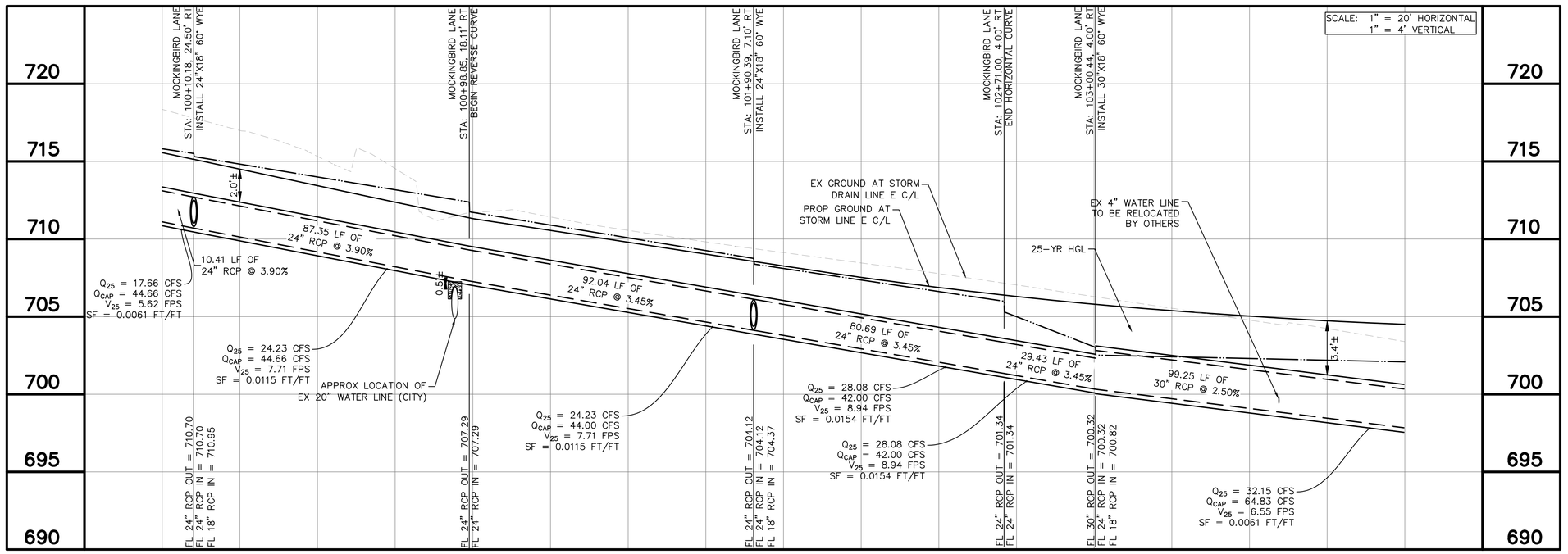


ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

NOTE TO CONTRACTOR:

INTENT IS FOR CONTRACTOR TO PROTECT EX 20" WL AND PLACE A CONCRETE CAP FOR PROTECTION AND COMPACTION. IF 20 WL IS IN CONFLICT, WATER LINE LOWERING QUANTITIES HAVE BEEN PROVIDED.



Kimley»Horn
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98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

STORM DRAIN LINE E -
STA 100+00 TO STA 104+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C3.39

2026-08-21 13:06:59, Del Rosso, Austin
2026-08-21 13:02:27 (STORM DRAIN LINE E - STA 100+00 TO STA 104+00)
Plotted, By:
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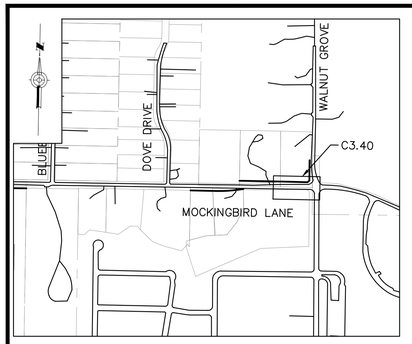
Filename:



KEY MAP

MATCH LINE STA. 104+00

4021 MOCKINGBIRD LN
WILLIAM S. HOUK
VOL. 708, PG. 120
D.R.E.C.T.

PROP 20' DRAINAGE EASEMENT

PROP 65' DRAINAGE EASEMENT

INLET E7
MOCKINGBIRD LANE
STA: 104+75.00, 26.00' LT
INSTALL 20' RECESSED CURB INLET
RE: CITY STANDARD DETAILS
T/C = 703.94
4.5' DEEP

EX 16" WATER LINE TO BE REMOVED

PROP ROW

Q_{25}=5.81 cfs

LAT E7
18" RCP

CULVERT E
(1) 8'X4' RCB
RE: SHEET C3.45

30" RCP

LINE E

1371 WALNUT GROVE RD
LOSPALLUTO MICHAEL T & JUDY K
VOL. 2229, PG. 625
D.R.E.C.T.

MOCKINGBIRD LANE
STA: 105+86.49, 37.50' LT
INSTALL:
(1) PW-2 HEADWALL
TOP OF WALL ELEV = 704.7±
RE: TXDOT DETAILS PW

MOCKINGBIRD LANE
STA: 105+77.56, 12.97' LT
INSTALL:
(1) 8'X4' 45° BEND

EX COPPER LINE TO BE ABANDONED (ATT)

EX GAS LINE TO BE ABANDONED (ATMOS)

PROP MOCKINGBIRD LANE C/L

N WALNUT GROVE ROAD

MOCKINGBIRD LANE

+00 | 105+00 | 106+00 | 107+00 | 108

14.0'

20.0'

Approx. Intersection Flow
Q_{25}=2.14 cfs

EX ROW

!!!CAUTION!!!
APPROX LOCATION OF EX GAS LINE

EX GAS LINE TO REMAIN (ATMOS)

PROP STORM DRAIN LINE E C/L

MOCKINGBIRD LANE
STA: 104+98.20, 4.00' RT
INSTALL 1 – 4' TYPE A JUNCTION BOX
RE: STORM DETAILS C3.68

CONTRACTOR TO ADJUST MANHOLE TO AVOID EX WATER LINE

MOCKINGBIRD LANE
STA: 105+01.23, 37.00' RT
INSTALL:
(1) PW-2 HEADWALL
TOP OF WALL ELEV = 705.6±
RE: TXDOT DETAILS PW

CINDY AND RICHARD GOODMAN
MASSEY ESTATES
VOL. 2825, PG. 2363
D.R.E.C.T.

MOCKINGBIRD LANE
STA: 105+07.53, 19.69' RT
INSTALL:
(1) 8'X4' 45° BEND

MOCKINGBIRD LANE
STA: 105+41.17, 4.00' RT
CONNECT 30" RCP TO PROP 8'X4' RCB
INSTALL:
(1) TXDOT BC-ECD (FTW)
(1) TXDOT MI-CBC (FTW)
(1) TXDOT MI-B&R (FTW)
(1) COM MANHOLE LID SD-9
RE: TXDOT DETAILS

PROP ROW

PROP 20" WATER LINE BY OTHERS (SARDIS)

PROP WATER EASEMENT

Q_{25}=3.30 cfs

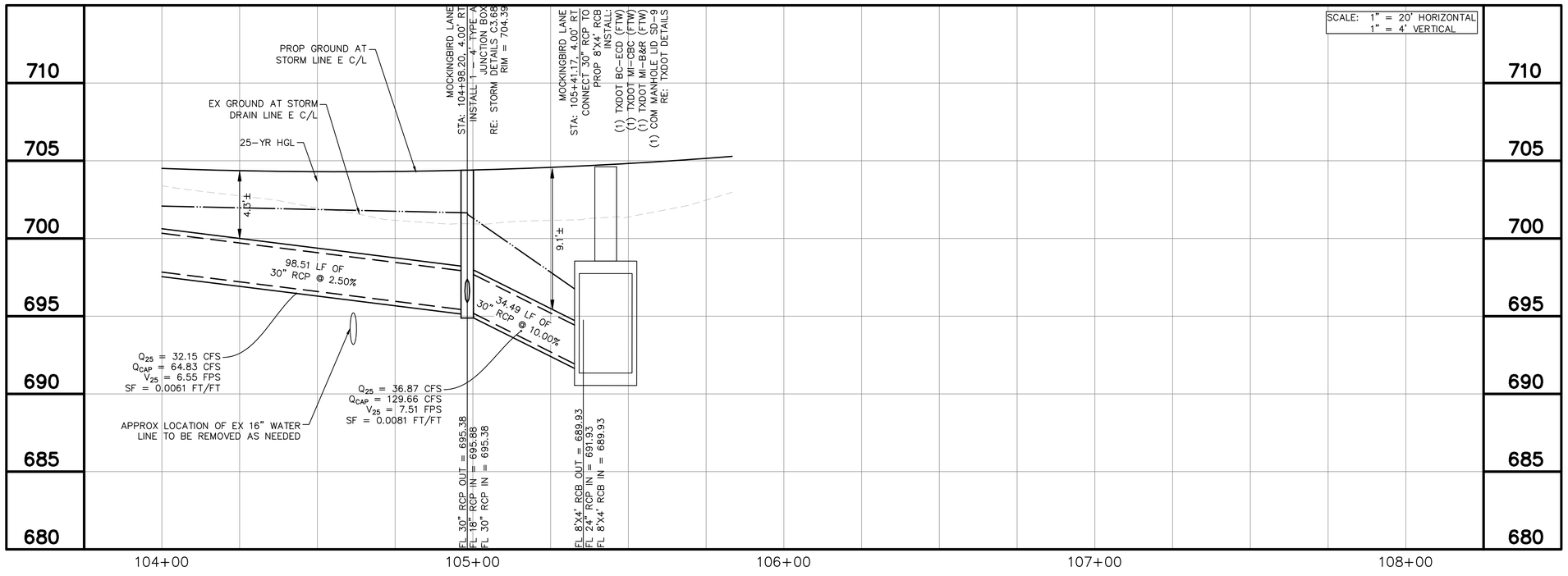
EX 16" WATER LINE TO REMAIN (MIDLOTHIAN – APPROX LOCATION)

PROP 50' DRAINAGE EASEMENT

GRAPHIC SCALE
20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT



Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

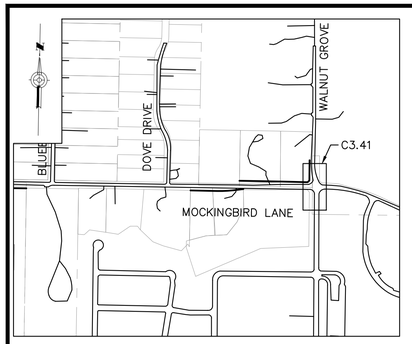
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

STORM DRAIN LINE E
- STA 104+00 TO END

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C3.40

2026-08-21 13:07:10, Del Rosso, Austin
2026-08-21 13:02:27 (STORM DRAIN LINE E – STA 104+00 TO END)
Plotted, By:
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain line e.dwg
Filename:



KEY MAP

GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

CINDY AND RICHARD GOODMAN
MASSEY ESTATES
VOL. 2825, PG. 2363
D.R.E.C.T.

PROP 20" WATER LINE
BY OTHERS (SARDIS)

EX ROW

PROP ROW

PROP MOCKINGBIRD
LANE C/L

INLET F1
WALNUT GROVE ROAD
STA: 2+77.01, 31.79' LT
INSTALL 10' RECESSED
CURB INLET
RE: STORM DETAILS C3.65
T/C = 711.02

EX STORM DRAIN
INLET TO BE REMOVED

EX ROW

EX 24" RCP
TO REMAIN

N WALNUT GROVE ROAD C/L

LAT F1
24" RCP

N WALNUT GROVE ROAD

2+00

3+00

4+00

5+00

6+00

107+00

108+00

109+00

MOCKINGBIRD LANE

PROP ROW

EX PRESCRIBED ROW

!!!CAUTION!!!
APPROX LOCATION
OF EX GAS LINE

1371 WALNUT GROVE RD
LOSPALLUTO MICHAEL T & JUDY K
VOL. 2229, PG. 625
D.R.E.C.T.

EX ROW

EX ROW

EX 24" RCP TO REMAIN

EX 24" RCP TO REMAIN

WALNUT GROVE ROAD
STA: 2+85.50, 20.43' LT
CONTRACTOR TO LOCATE EX
24" RCP IN FIELD AND
CONNECT PROP 24" RCP TO EX
24" STORM DRAIN LINE

EX 24" RCP TO REMAIN

EX STORM DRAIN
INLET AND 24"
RCP TO REMAIN

990 WALNUT GROVE RD
MIDLOTHIAN ISD

1510 WALNUT GROVE RD
ARNOLD DIANA L ETAL

Kimley»Horn

No.	Revision	By	Date

801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

8/21/2026

STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

STORM DRAIN LINE F

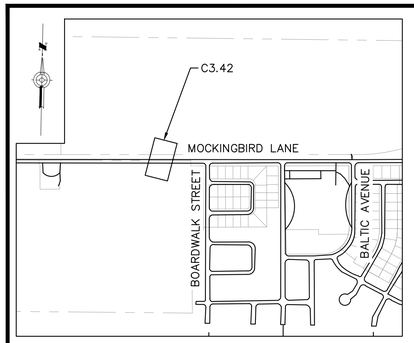
DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C3.41

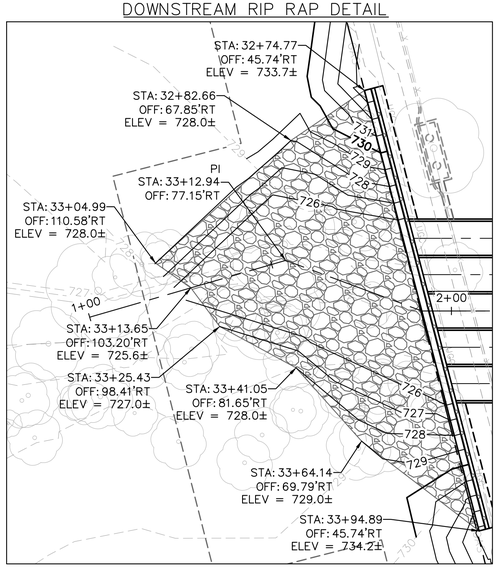
Plotted, By: 2026-08-21 13:07:43, Del Rosso, Austin
Last Saved: 2026-08-20 10:38:49 (STORM DRAIN LINE F)
K: \ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain line f.dwg
Filename:

Discharge Names	Total Discharge (cfs)	Culvert Discharge (cfs)	Headwater Elevation (ft)	Inlet Control Depth(ft)	Outlet Control Depth(ft)	HW / D	Flow Type	Normal Depth (ft)	Critical Depth (ft)	Outlet Depth (ft)	Tailwater Depth (ft)	Outlet Velocity (ft/s)	Tailwater Velocity (ft/s)
10 year	1149.74	1149.74	731.18	**4.69**	3.31	1.17	S-S2n	2.15	2.73	2.15	0.00	11.90	0.00
25 year	1503.77	1503.77	732.40	**5.91**	5.00	1.48	S-S2n	2.59	3.26	2.59	0.00	12.91	0.00

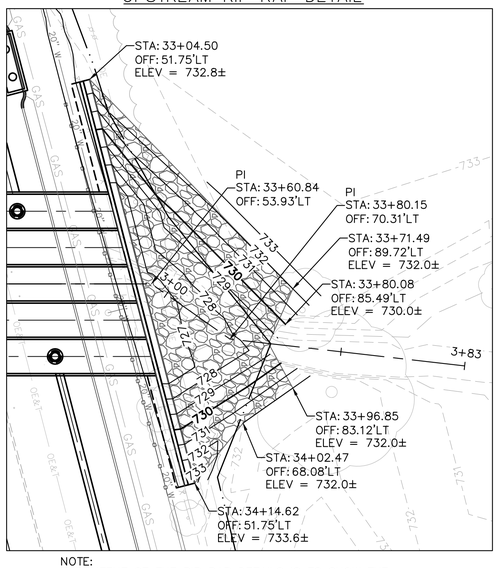


KEY MAP

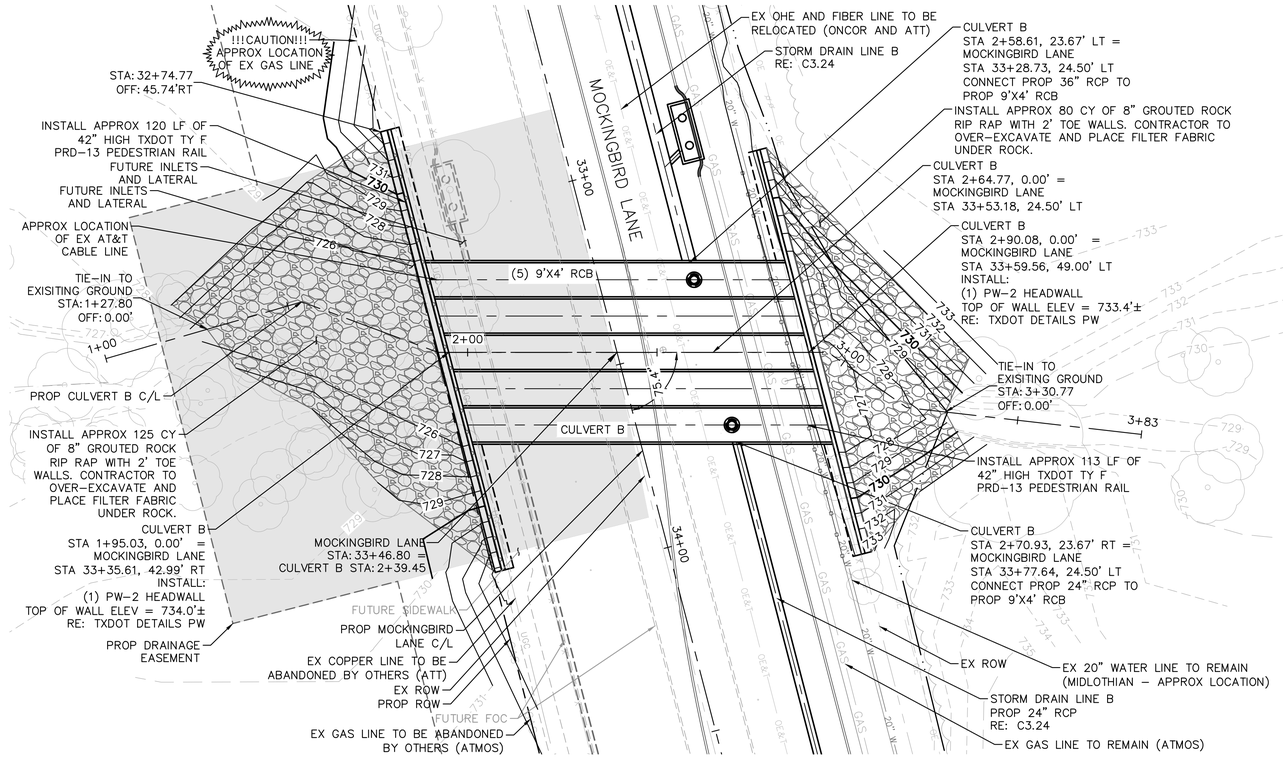
DOWNSTREAM RIP RAP DETAIL

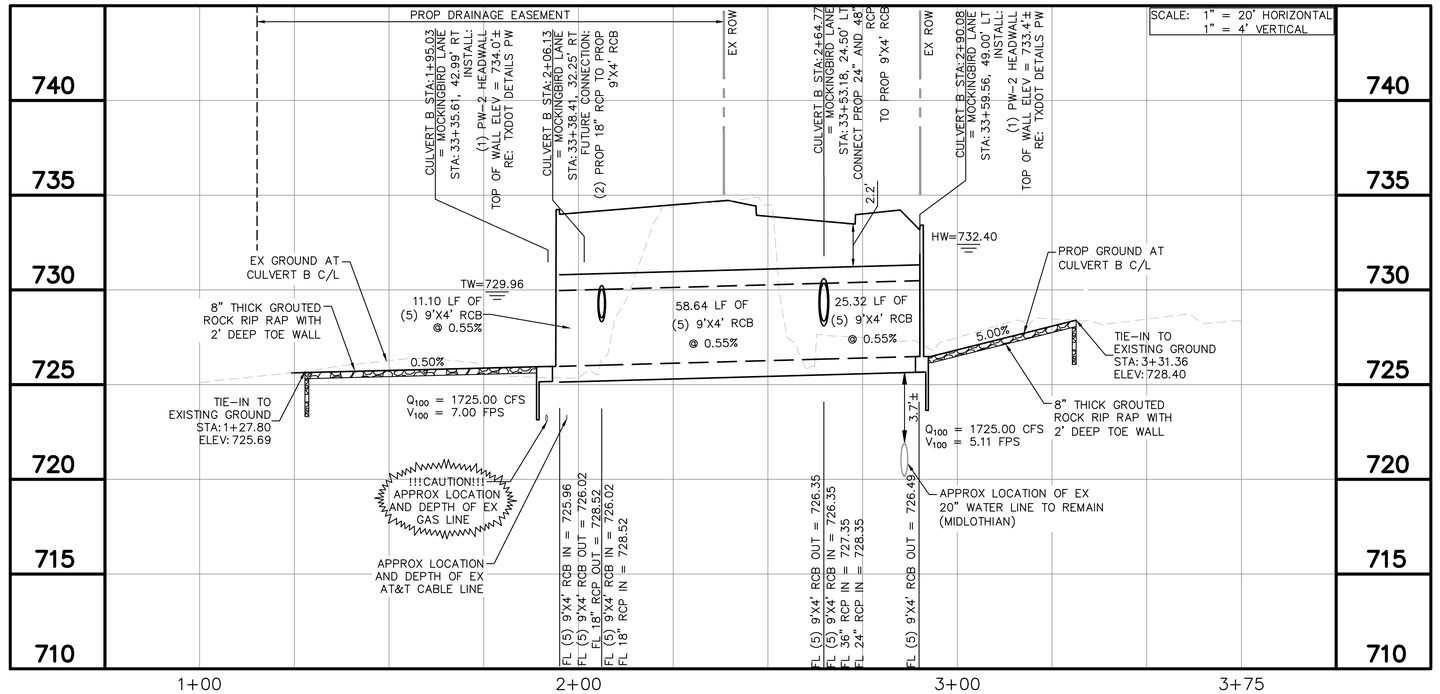


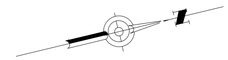
UPSTREAM RIP RAP DETAIL



NOTE:
THE INTENT OF THE RIP RAP DETAILS IS TO SHOW THE EDGE OF RIP RAP LOCATIONS FOR THE CONTRACTOR.







GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

LEGEND

PROP DRAINAGE EASEMENT

Kimley»Horn

801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026

STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

STORM DRAIN CULVERT
B PLAN AND PROFILE

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

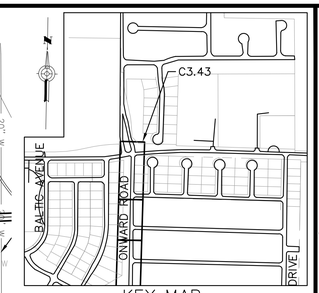
C3.42

2026-08-21 13:08:41, Del Rosso, Austin
2026-08-20 19:18:09 (STORM DRAIN CULVERT B PLAN AND PROFILE)
Plotted, By:
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm culvert b.dwg
Filename:

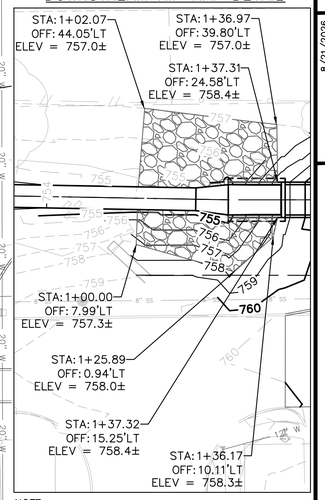
GRAPHIC SCALE
20 0 10 20 40
ORIGINAL PLOTTED SCALE: 1 inch = 20 ft.
IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 40 FT

1020 SHORT LINE BLVD
1018 SHORT LINE BLVD
1022 SHORT LINE BLVD
1024 SHORT LINE BLVD
ADDITIVE ALTERNATE 2
BASE BID
EX CHAIN LINK FENCE TO BE REPLACED AS NECESSARY
EX WOOD FENCE TO BE REPLACED AS NECESSARY
TIE-IN TO EXISTING GROUND OUTFALL C STA: 1+33.11 = ONWARD STORM STA: 21+17.37
REFER TO SHEET C3.50 FOR MORE INFORMATION
EX MANHOLE TO REMAIN, CONTRACTOR TO ADJUST GRADING AROUND MANHOLE
INSTALL APPROX 45 CY OF 8" GROUTED ROCK RIP RAP WITH 2'X1' TOE WALLS. CONTRACTOR TO OVER-EXCAVATE AND PLACE FILTER FABRIC UNDER ROCK.
OUTFALL C STA: 1+73.57, 0.00' = ONWARD ROAD STA: 1+39.29, 19.92' LT INSTALL: (1) SW-0 HEADWALL TOP OF WALL ELEV = 758.5'± RE: TXDOT DETAILS
PROP 24 LF OF BARRICADE RE: CITY DETAIL SD-7
INSTALL APPROX 65 CY OF 8" GROUTED ROCK RIP RAP WITH 2'X1' TOE WALLS. CONTRACTOR TO OVER-EXCAVATE AND PLACE FILTER FABRIC UNDER ROCK.
EX PROPERTY LINE
PROP CHANNEL TOE
EX ROW
PROP OUTFALL C C/L
APPROX LOCATION OF EX AT&T CABLE LINE
OUTFALL C STA: 4+69.42, 0.00' = ONWARD ROAD STA: 4+35.59, 10.17' LT VERTICAL BEND
OUTFALL C STA: 5+37.60, 0.00' = MOCKINGBIRD LANE STA: 57+13.36, 16.50' LT INSTALL: (1) TXDOT BC-ECD (FTW) (1) TXDOT MI-CBC (FTW) (1) TXDOT MI-B&R (FTW)
MOCKINGBIRD LANE STA: 57+13.36, 16.50' LT INSTALL: (1) TXDOT BC-ECD (FTW) (1) TXDOT MI-CBC (FTW) (1) TXDOT MI-B&R (FTW) (1) COM MANHOLE LID SD-9 RE: TXDOT DETAILS RIM: 766.77
8'X3' RCB
OUTFALL C
ONWARD ROAD
PROP ONWARD ROAD C/L
EX 12" WATER LINE TO BE LOWERED (MIDLOTHIAN APPROX LOCATION) RE: SHEET C4.03
!!!CAUTION!!! APPROX LOCATION OF EX GAS LINE
APPROX LOCATION OF EX AT&T CABLE LINE
EX ROW
RE: SHEET C3.30
RE: SHEET C3.31
STORM LINE C
MOCKINGBIRD LANE
EAGLE LANE
3002 EAGLE LN
1133 STARLING CIR
1137 STARLING CIR
1141 STARLING CIR
1145 STARLING CIR
6.0'
19.9'
11.0'
51.0'
3:1 MAX
2:1 MAX
8.0'
20.9'
10.1'
8.0'

KEY MAP

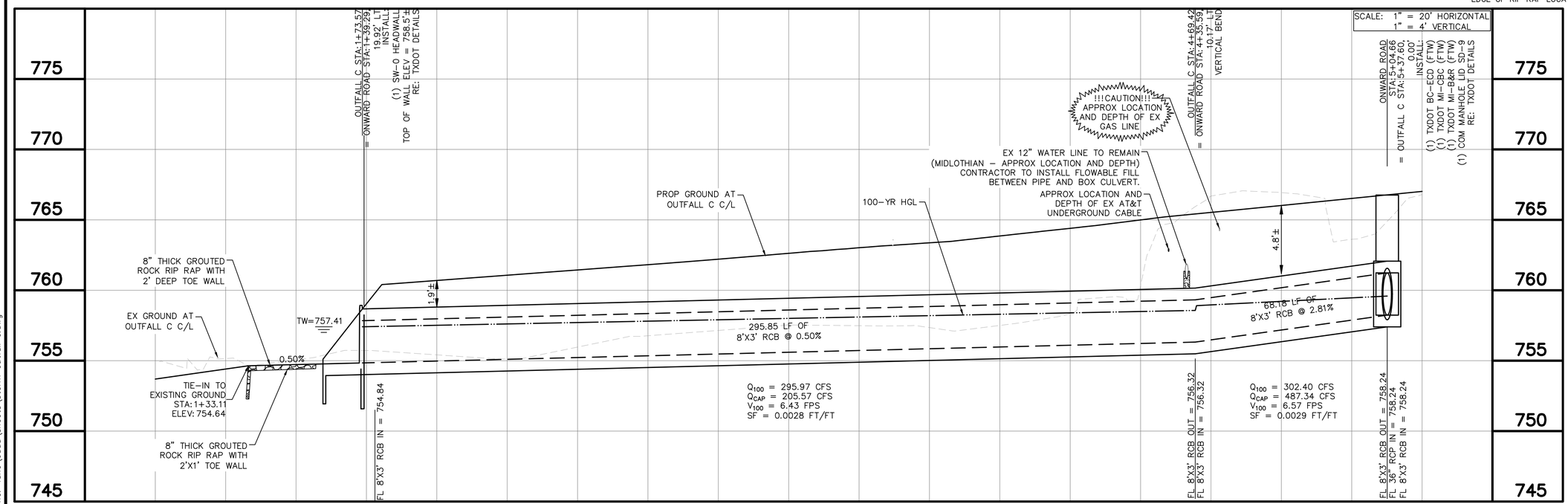


DOWNSTREAM RIP RAP DETAIL



NOTE:
THE INTENT OF THE RIP RAP DETAILS IS TO SHOW THE EDGE OF RIP RAP LOCATIONS FOR THE CONTRACTOR.

SCALE: 1" = 20' HORIZONTAL
1" = 4' VERTICAL



Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

6/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

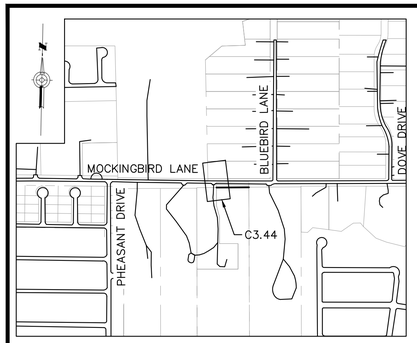
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

STORM DRAIN OUTFALL C PLAN AND PROFILE - BEGIN TO END

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

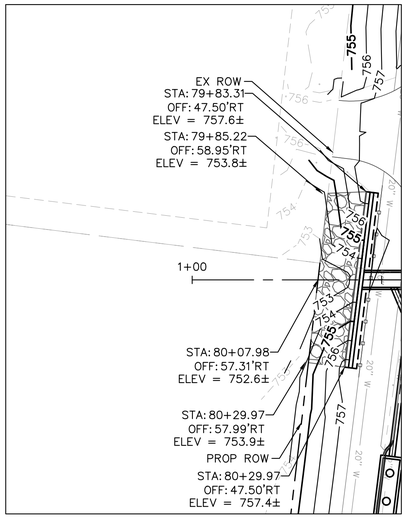
SHEET NUMBER
C3.43

Plotted By: 2026-08-21 13:09:34, Del Rosso, Austin
Last Saved: 2026-08-21 09:39:29 (STORM DRAIN OUTFALL C PLAN AND PROFILE – BEGIN TO END)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm outfall c.dwg

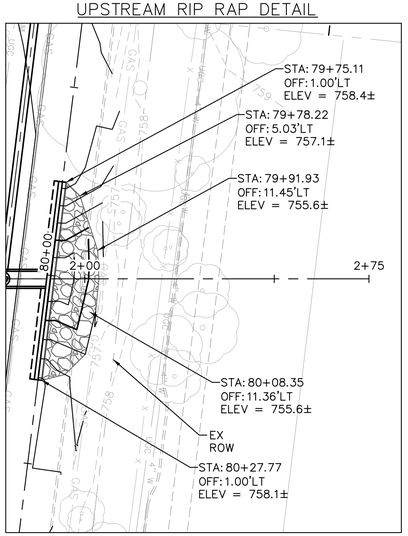


KEY MAP

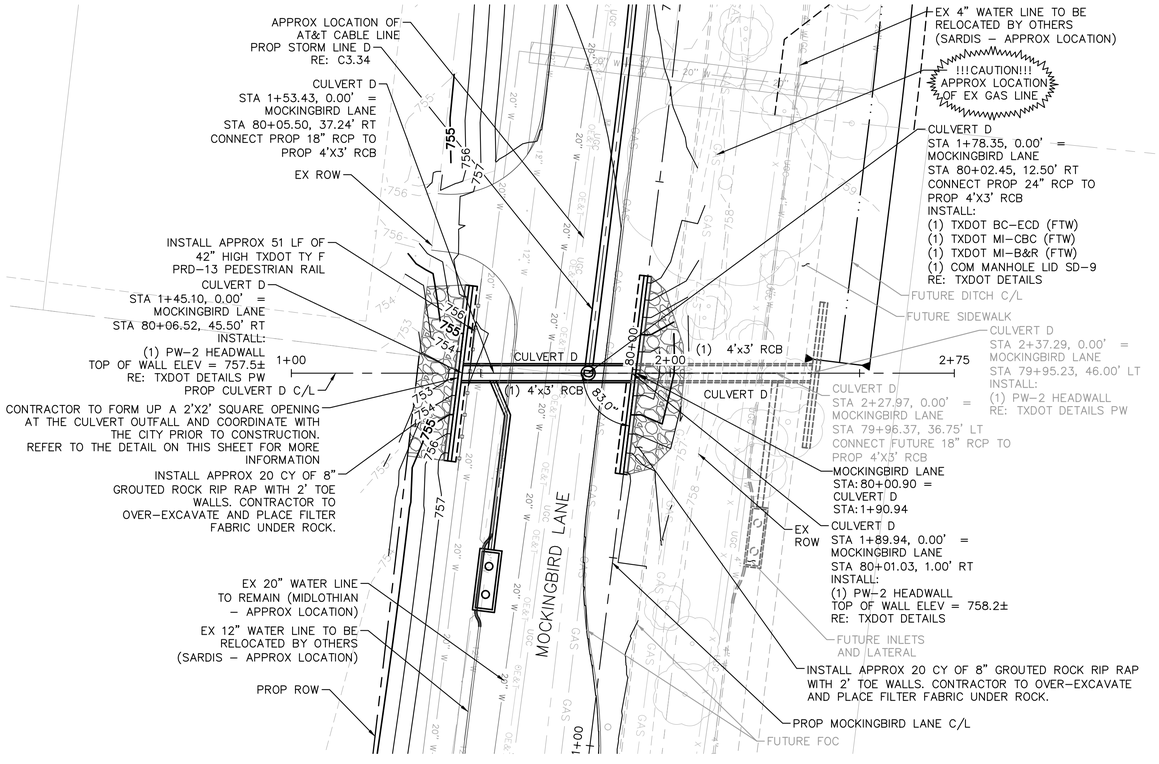
DOWNSTREAM RIP RAP DETAIL

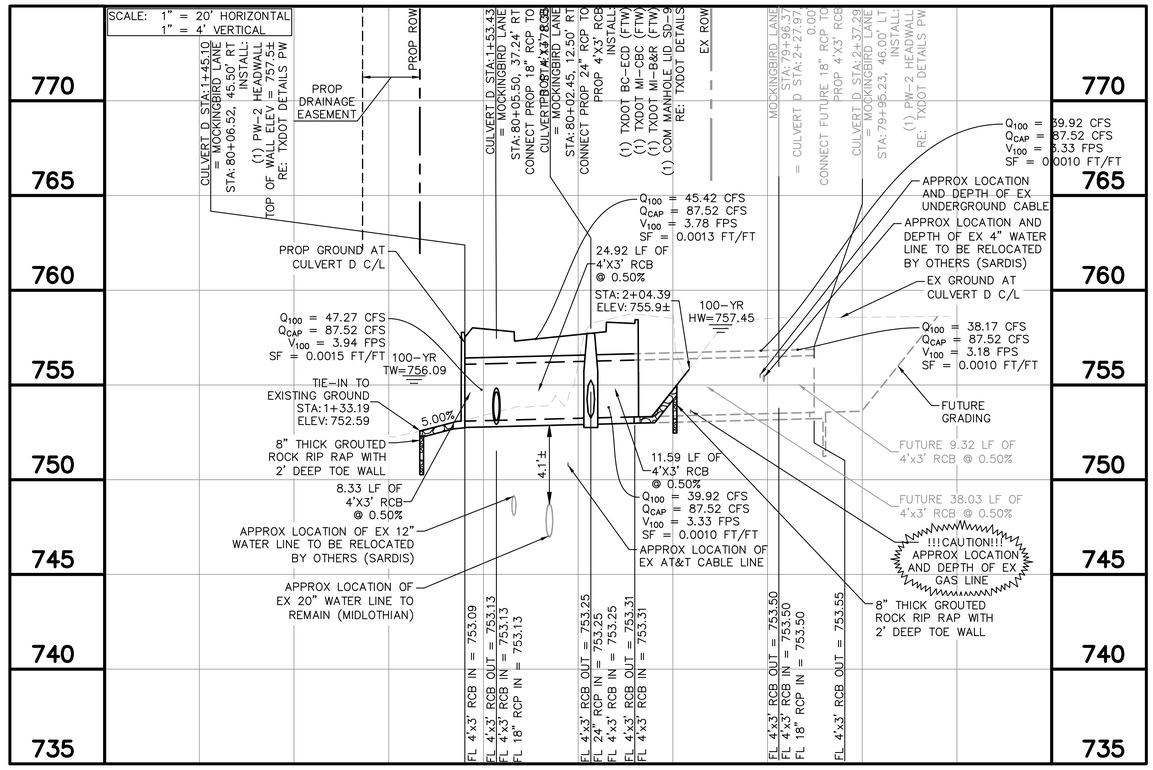


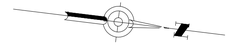
UPSTREAM RIP RAP DETAIL



NOTE:
THE INTENT OF THE RIP RAP DETAILS IS TO SHOW THE EDGE OF RIP RAP LOCATIONS FOR THE CONTRACTOR.

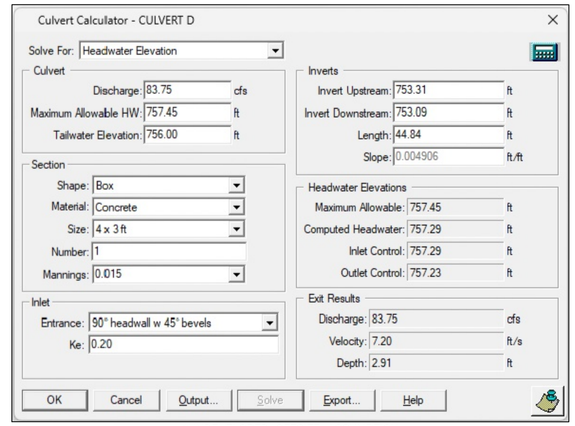




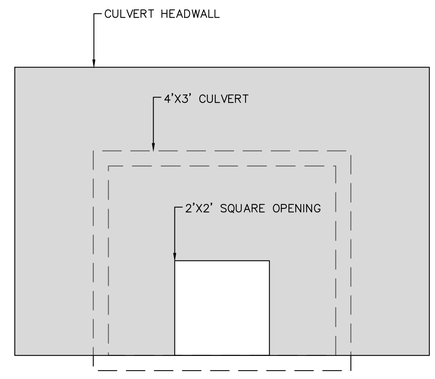


ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT



*UNDEVELOPED OFFSITE ASSUMPTION



DOWNSTREAM HEADWALL CULVERT OPENING DETAIL

NOTE: CONTRACTOR SHALL PLACE CONCRETE AT THE OPENING OF THE 4X3 OPENING AND LEAVE A 2X2 OPENING TO REDUCE FLOW.
RE: TxDOT DETAIL BC-ECD

Kimley»Horn
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96384
LICENSED PROFESSIONAL ENGINEER

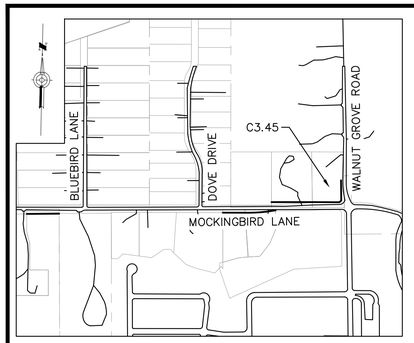
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

STORM DRAIN CULVERT
D PLAN AND PROFILE

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

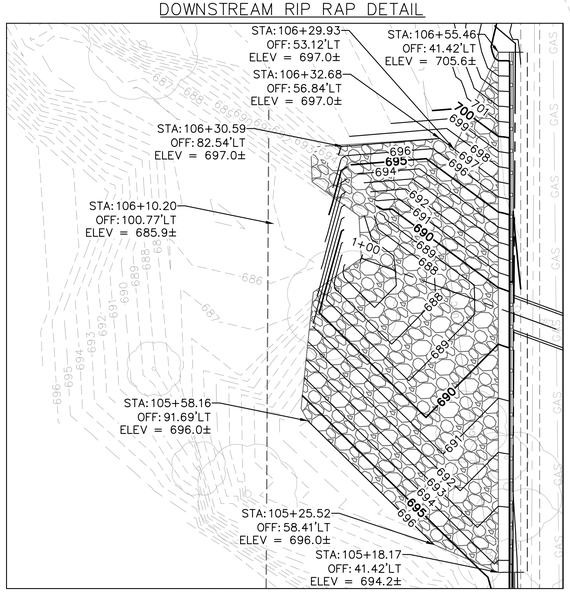
SHEET NUMBER
C3.44

Plotted By: 2026-08-21 13:10:22, Del Rosso, Austin
Last Saved: 2026-08-21 11:42:37 (STORM DRAIN CULVERT D PLAN AND PROFILE)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm culvert d.dwg

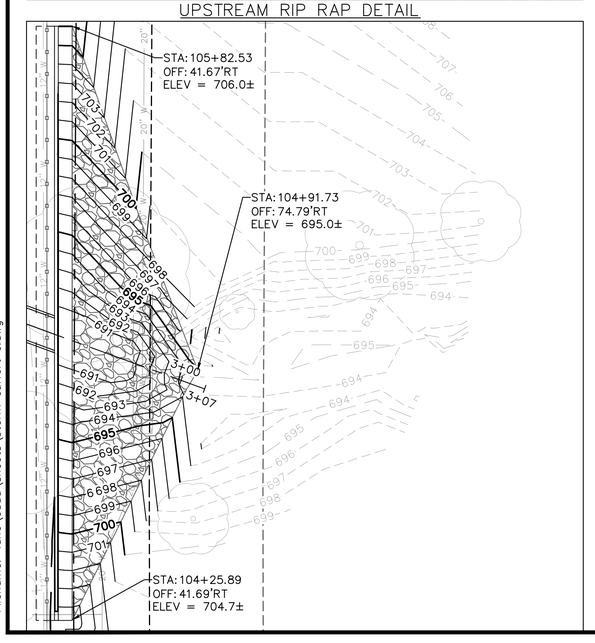


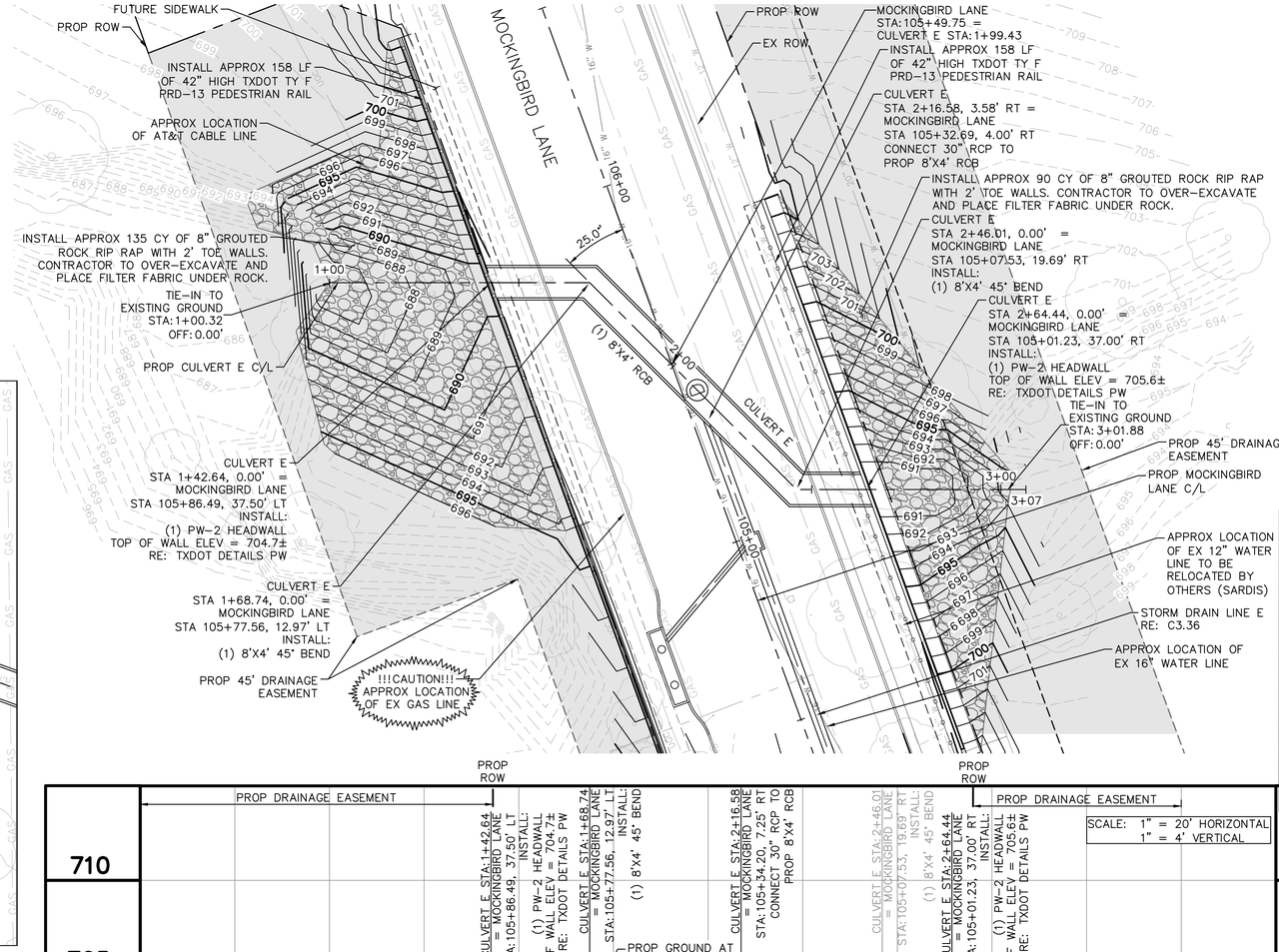
KEY MAP

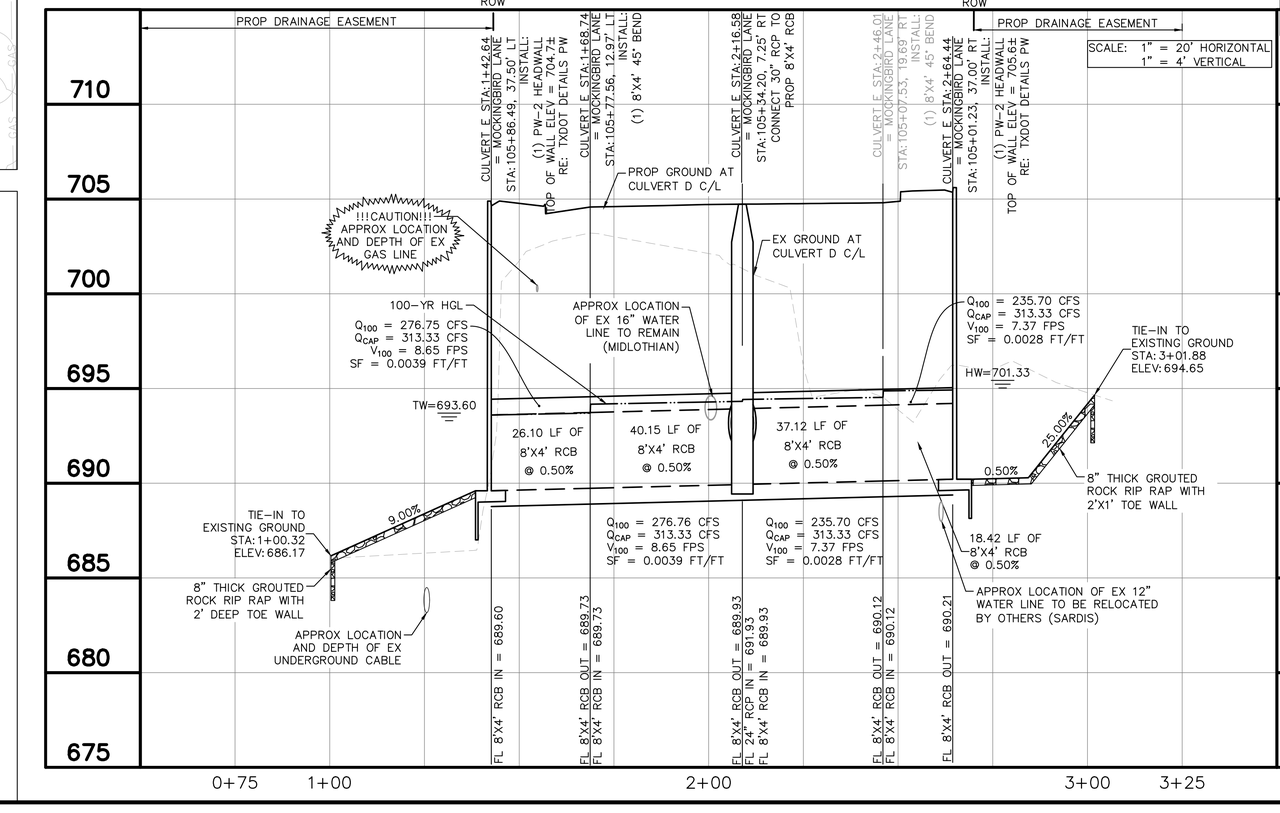
DOWNSTREAM RIP RAP DETAIL

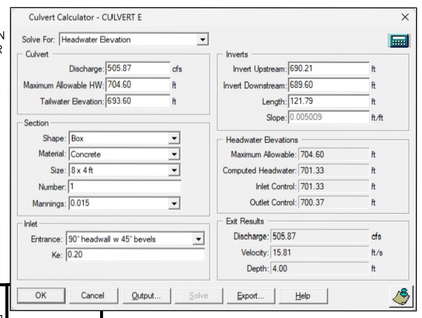


UPSTREAM RIP RAP DETAIL









GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

LEGEND

PROP DRAINAGE EASEMENT

NOTE:
THE INTENT OF THE RIP RAP DETAILS IS TO SHOW THE EDGE OF RIP RAP LOCATIONS FOR THE CONTRACTOR.

Kimley»Horn
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No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL ENGINEER

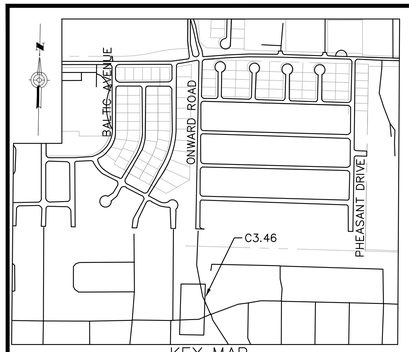
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

STORM DRAIN CULVERT E PLAN AND PROFILE

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER
C3.45

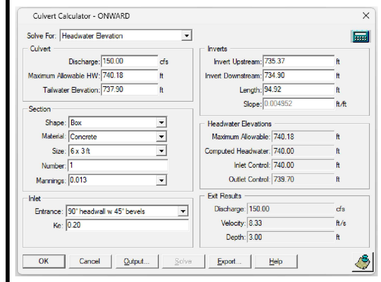
2026-08-21 13:11:22, Del Rosso, Austin
2026-08-20 19:19:20 (STORM DRAIN CULVERT E PLAN AND PROFILE)
Plotted, By:
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm culvert e.dwg
Filename:



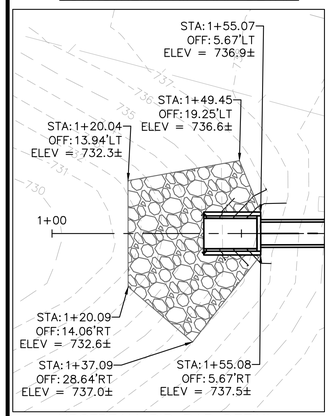
KEY MAP

LEGEND

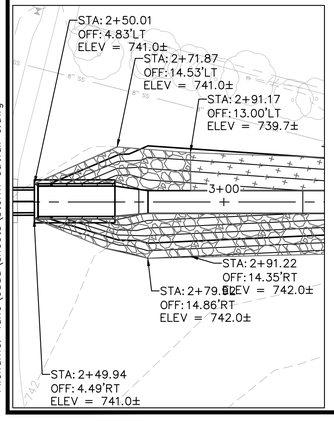
PROP CONCRETE CHANNEL

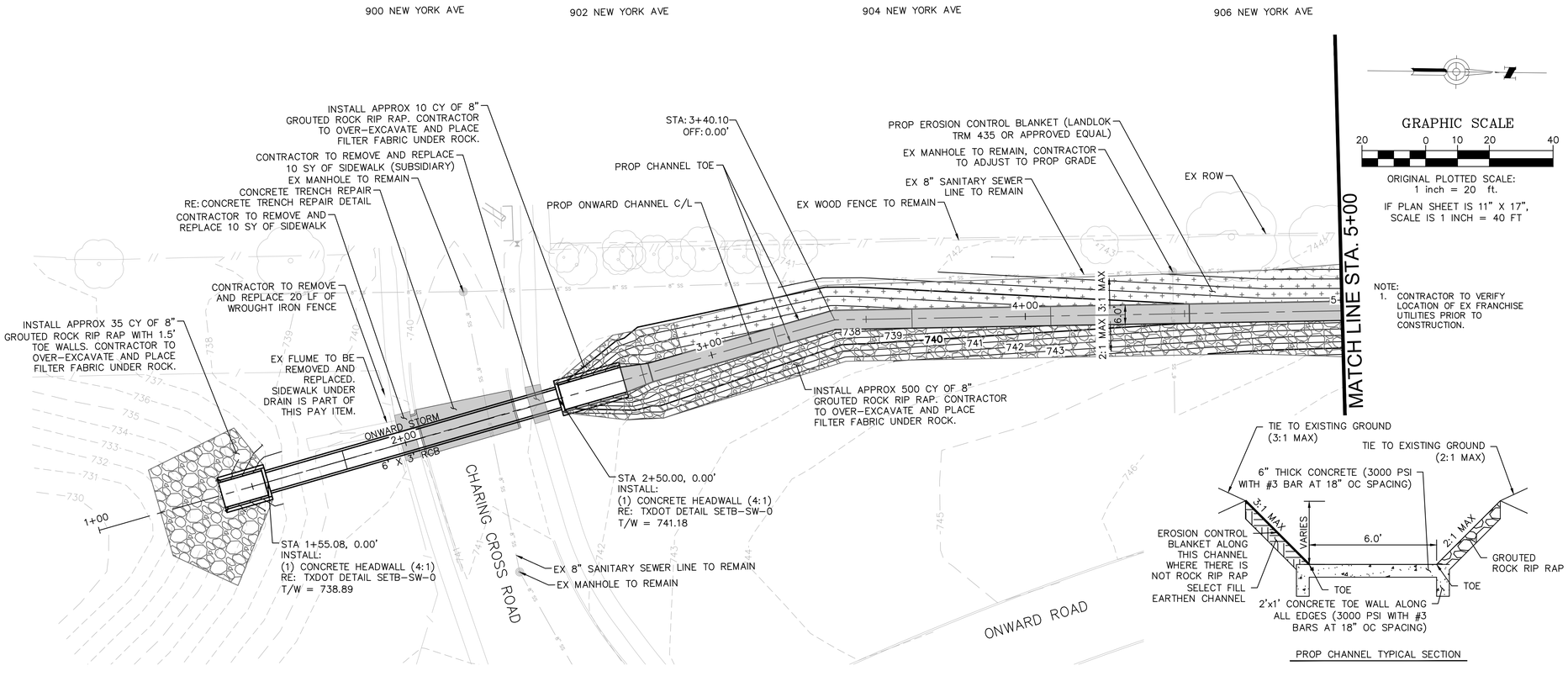


DOWNSTREAM RIP RAP DETAIL



UPSTREAM RIP RAP DETAIL





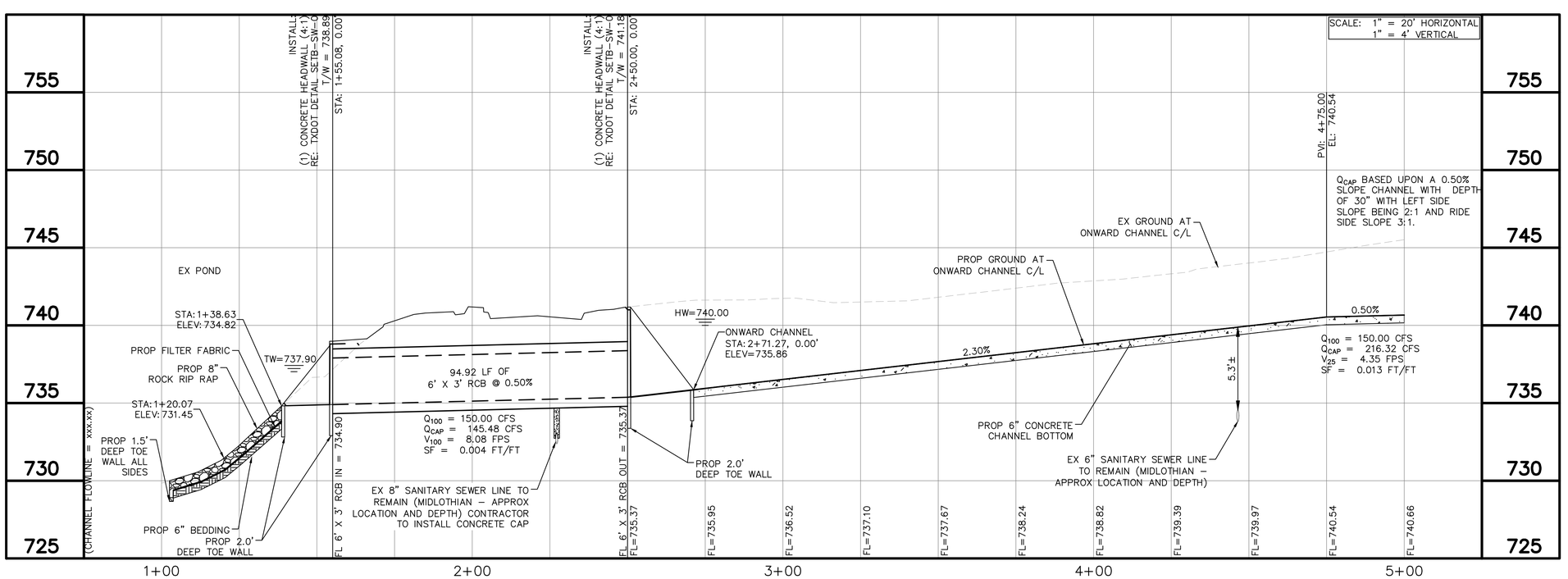
PROP CHANNEL TYPICAL SECTION

GRAPHIC SCALE
20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 40 FT

NOTE:
1. CONTRACTOR TO VERIFY LOCATION OF EX FRANCHISE UTILITIES PRIOR TO CONSTRUCTION.



NOTE:
THE INTENT OF THE RIP RAP DETAILS IS TO SHOW THE EDGE OF RIP RAP LOCATIONS FOR THE CONTRACTOR.

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

9/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

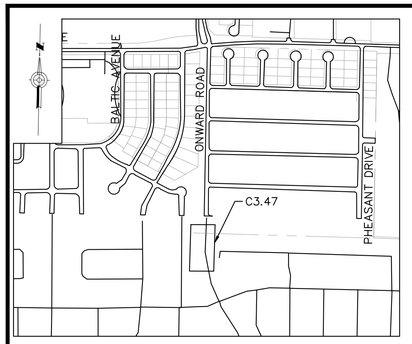
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

ONWARD CHANNEL - BEGIN TO STA 5+00 - ALTERNATE #2

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER
C3.46

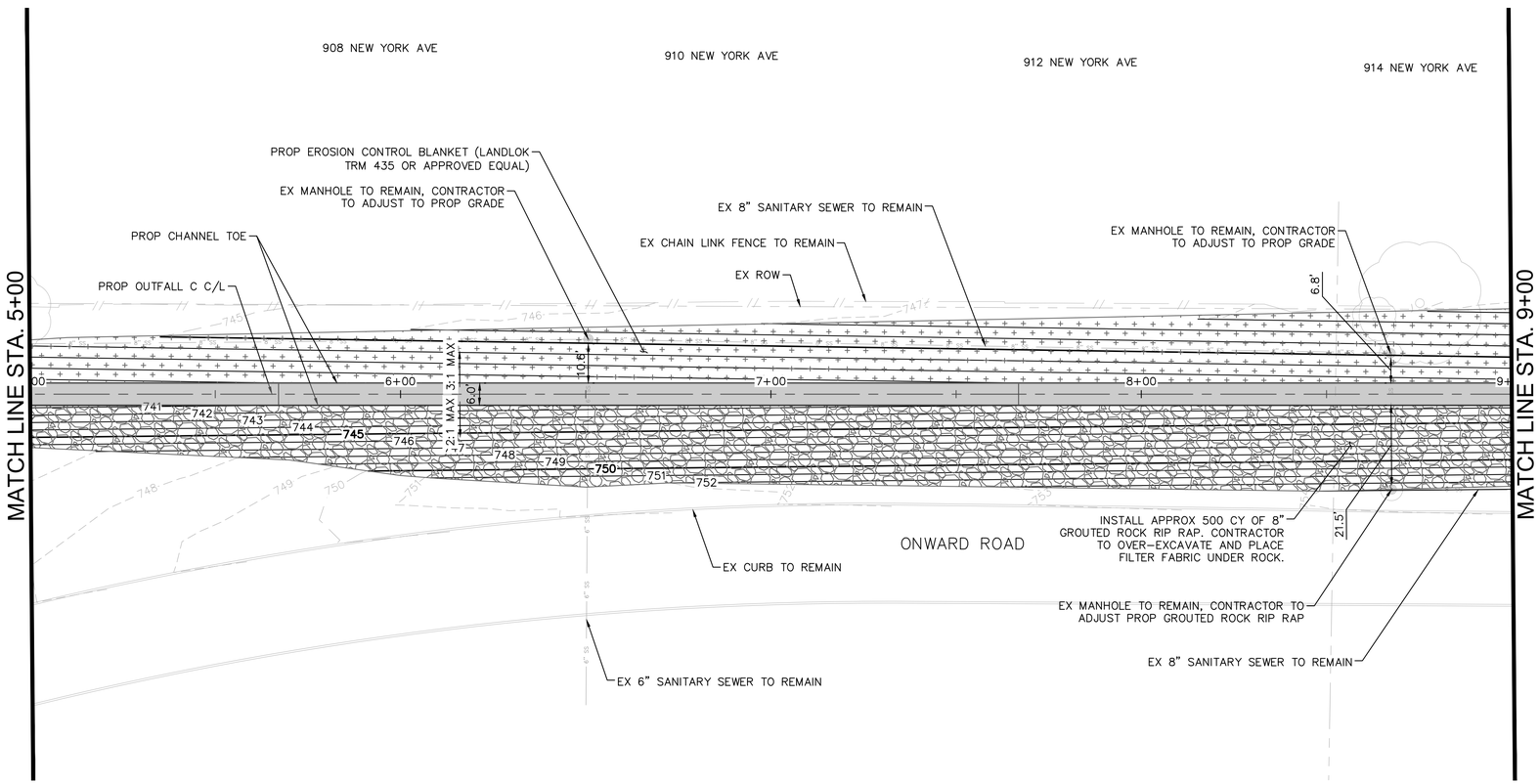
Plotted, By: 2026-08-21 13:12:23, Del Rosso, Austin
Last Saved: 2026-08-21 09:39:29 (ONWARD CHANNEL - BEGIN TO STA 5+00)
Filename: k:\tw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm outfall c.dwg



KEY MAP

LEGEND

PROP CONCRETE CHANNEL

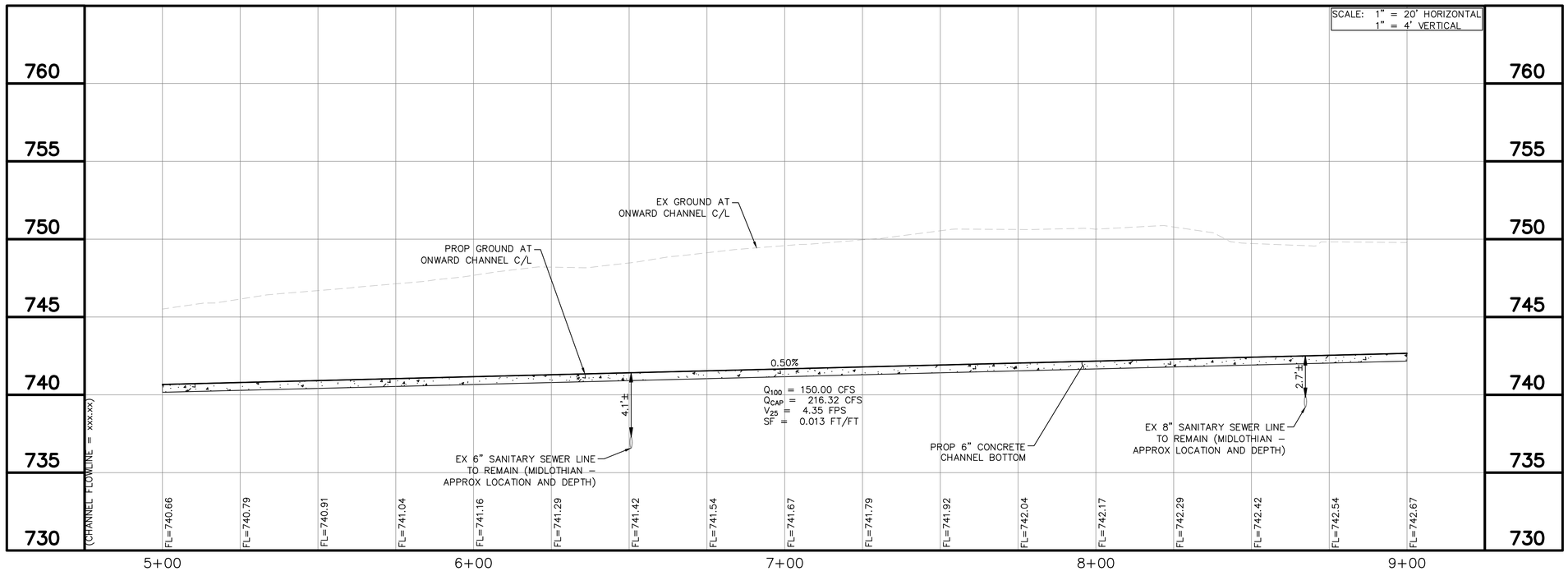


GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT



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98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

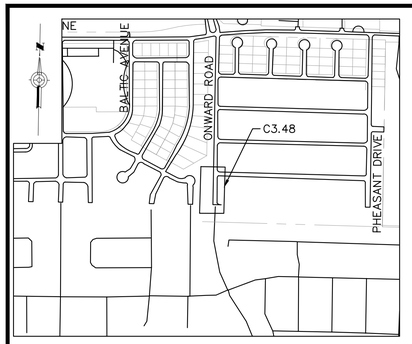
ONWARD CHANNEL -
STA 5+00 TO STA 9+00
- ALTERNATE #2

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C3.47

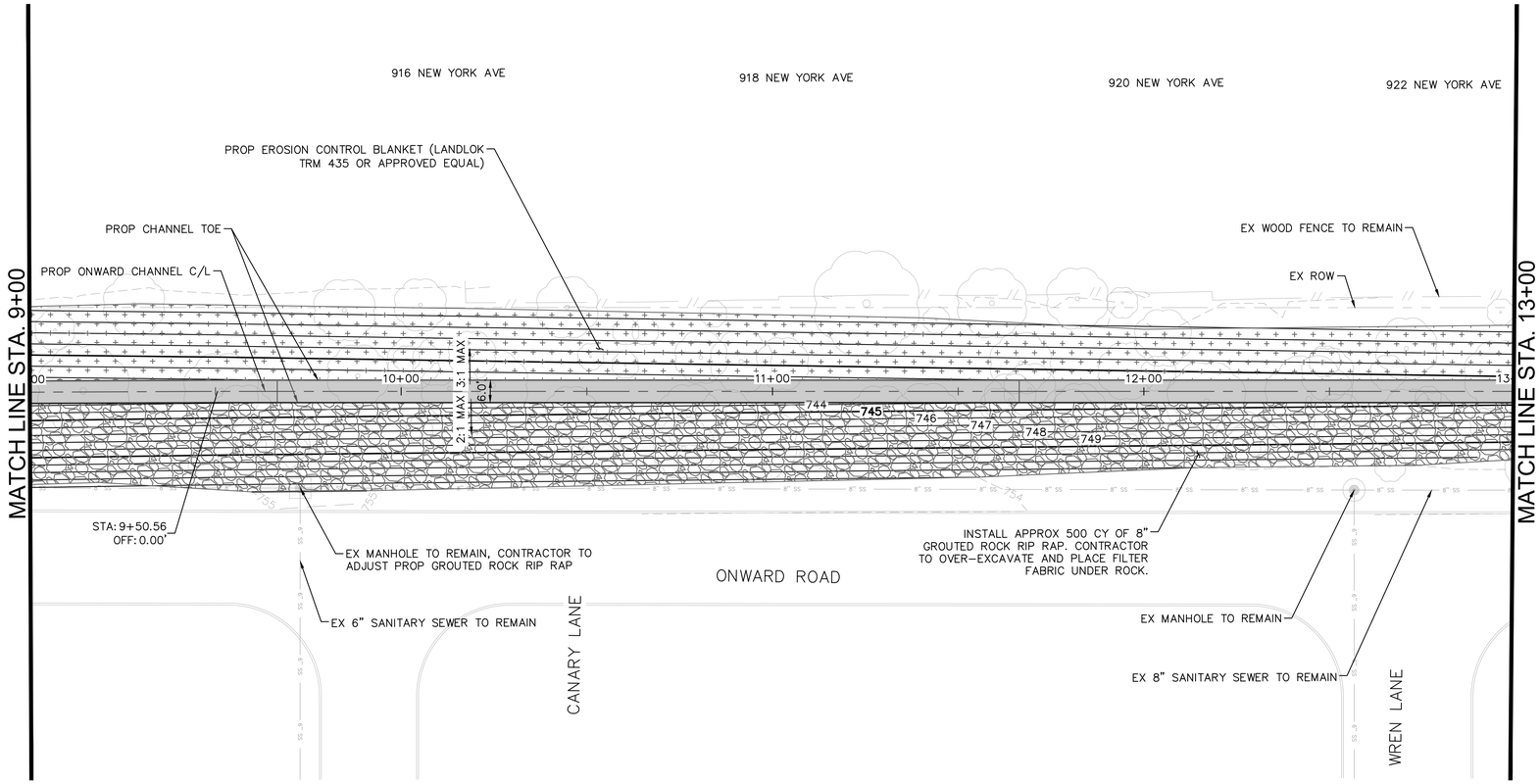
Plotted, By: 2026-08-21 13:12:38, Del Rosso, Austin
Last Saved: 2026-08-21 09:39:29 (ONWARD CHANNEL – STA 5+00 TO STA 9+00)
Filename: k:\tw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm outfall c.dwg



KEY MAP

LEGEND

PROP CONCRETE CHANNEL

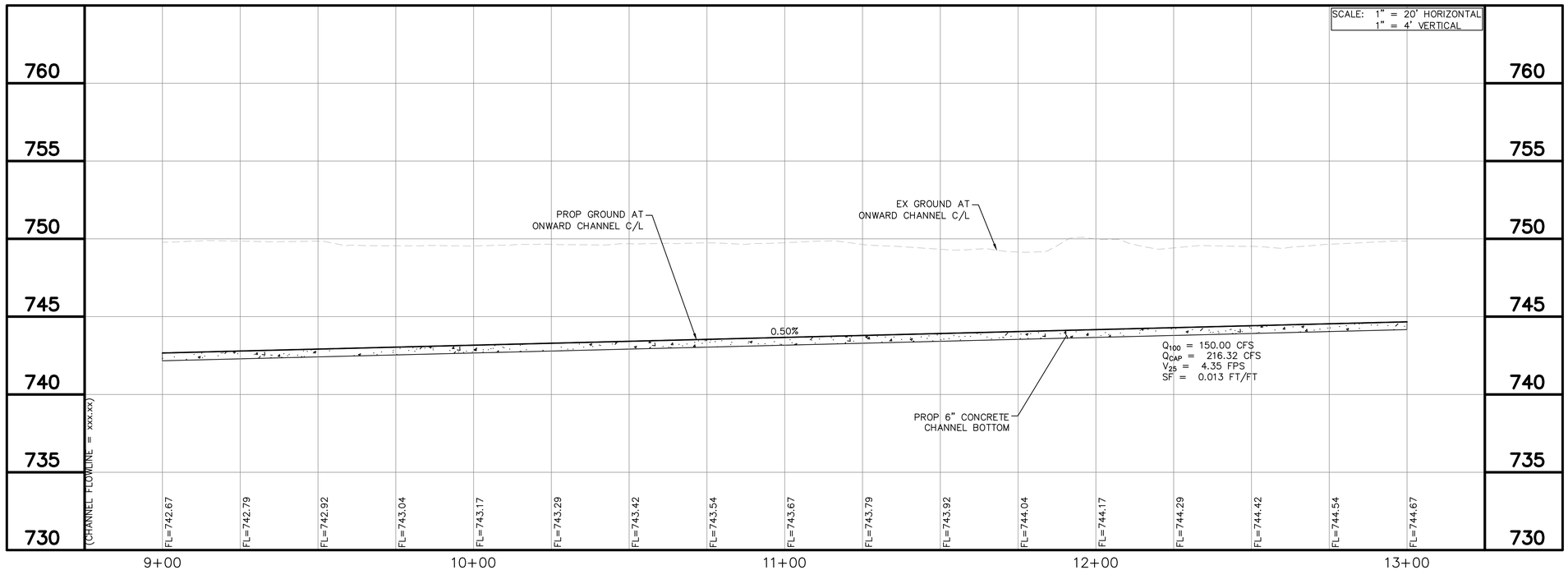


GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT



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PROFESSIONAL
ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

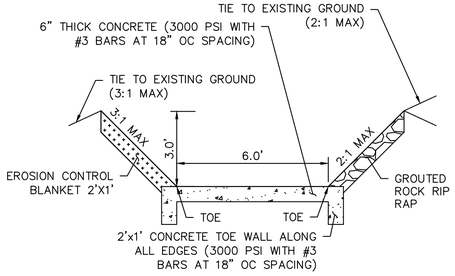
ONWARD CHANNEL - STA 9+00 TO STA 13+00 - ALTERNATE #2

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

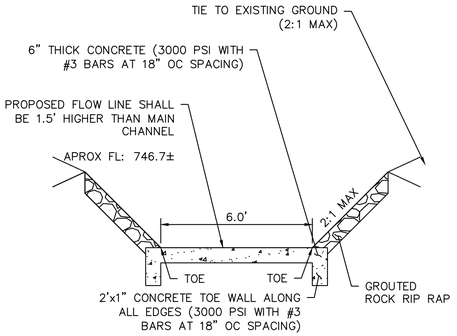
SHEET NUMBER

C3.48

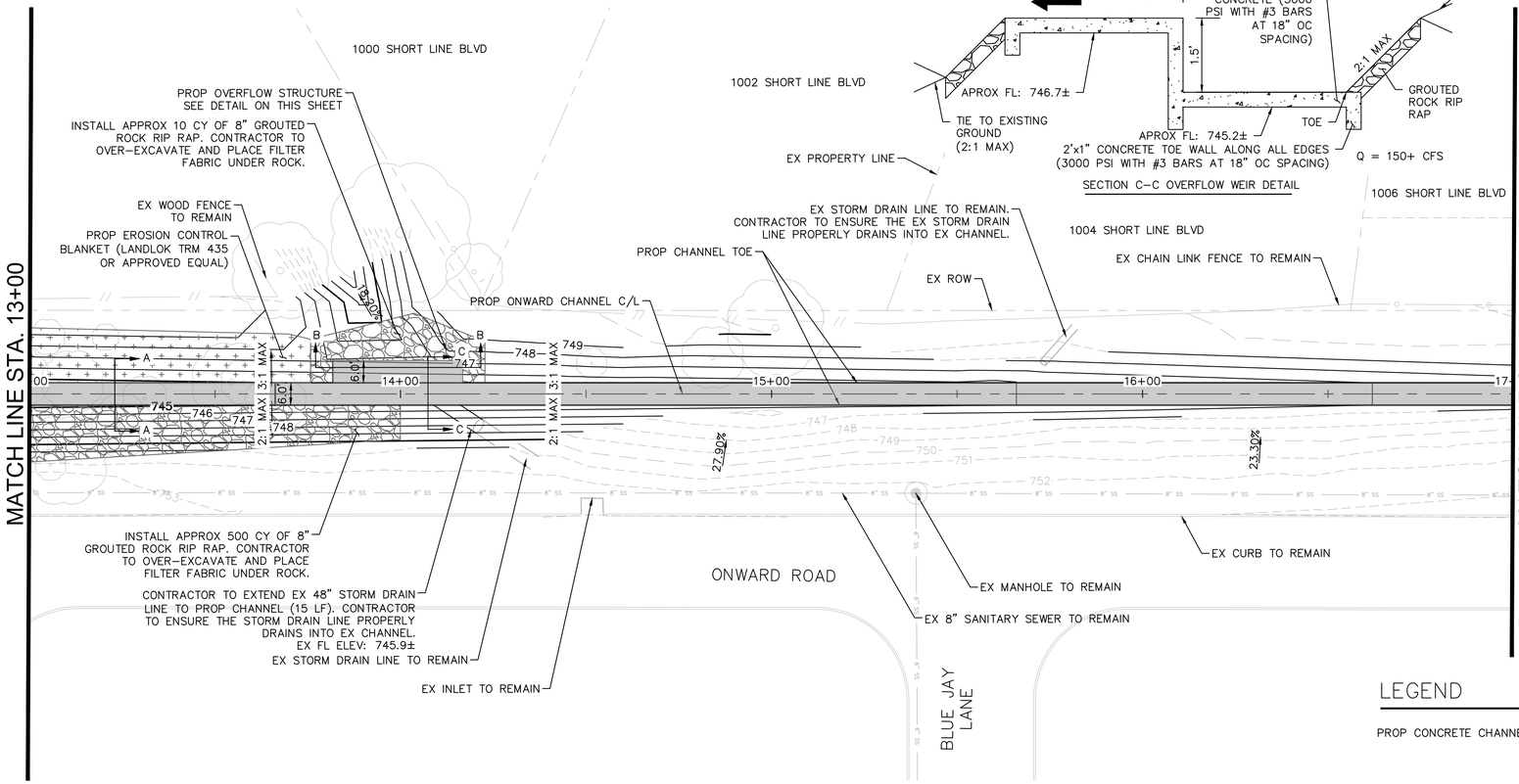
Plotted, By: 2026-08-21 13:12:53, Del Rosso, Austin
Last Saved: 2026-08-21 09:39:29 (ONWARD CHANNEL - STA 9+00 TO STA 13+00)
Filename: k:\tw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm outfall c.dwg



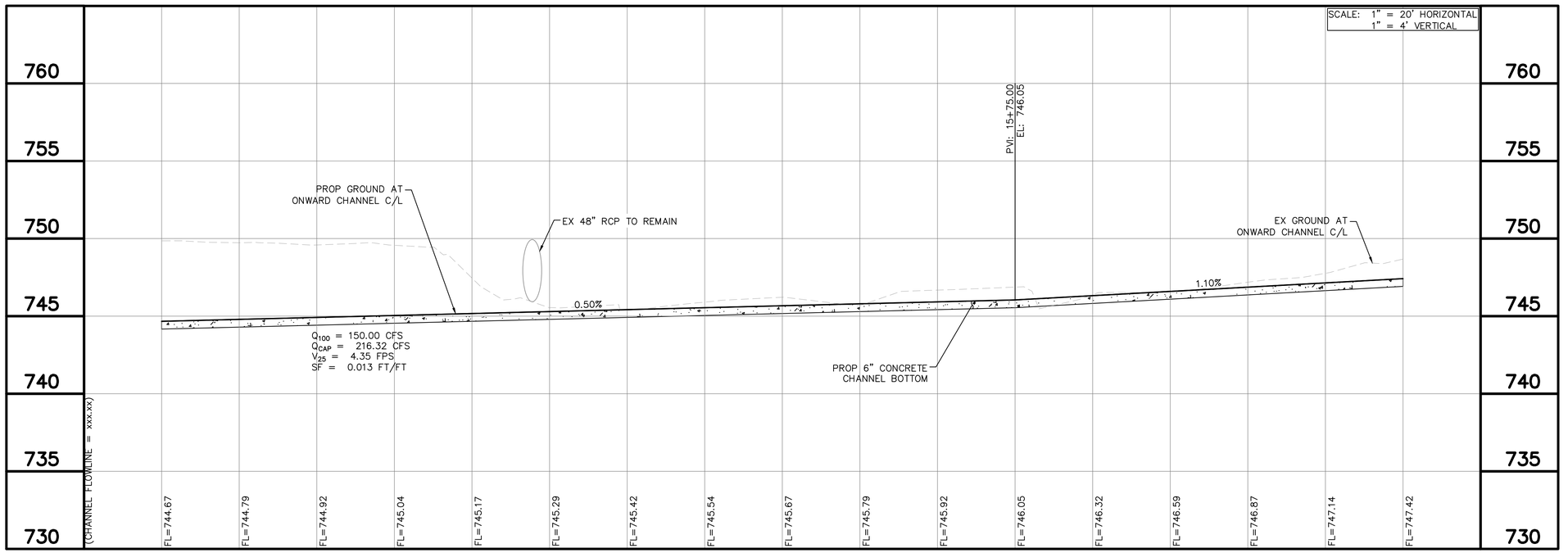
SECTION A–A
CHANNEL DETAIL



SECTION B–B
OVERFLOW STRUCTURE DETAIL



KEY MAP



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98384
REGISTERED PROFESSIONAL ENGINEER

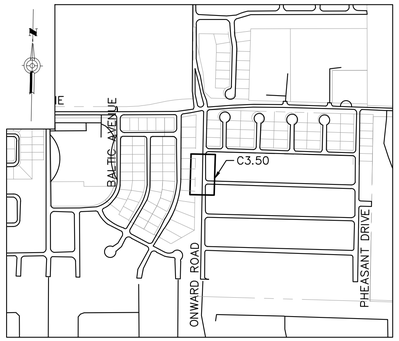
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

ONWARD CHANNEL - STA 13+00 TO 17+00 - ALTERNATE #2

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER
C3.49

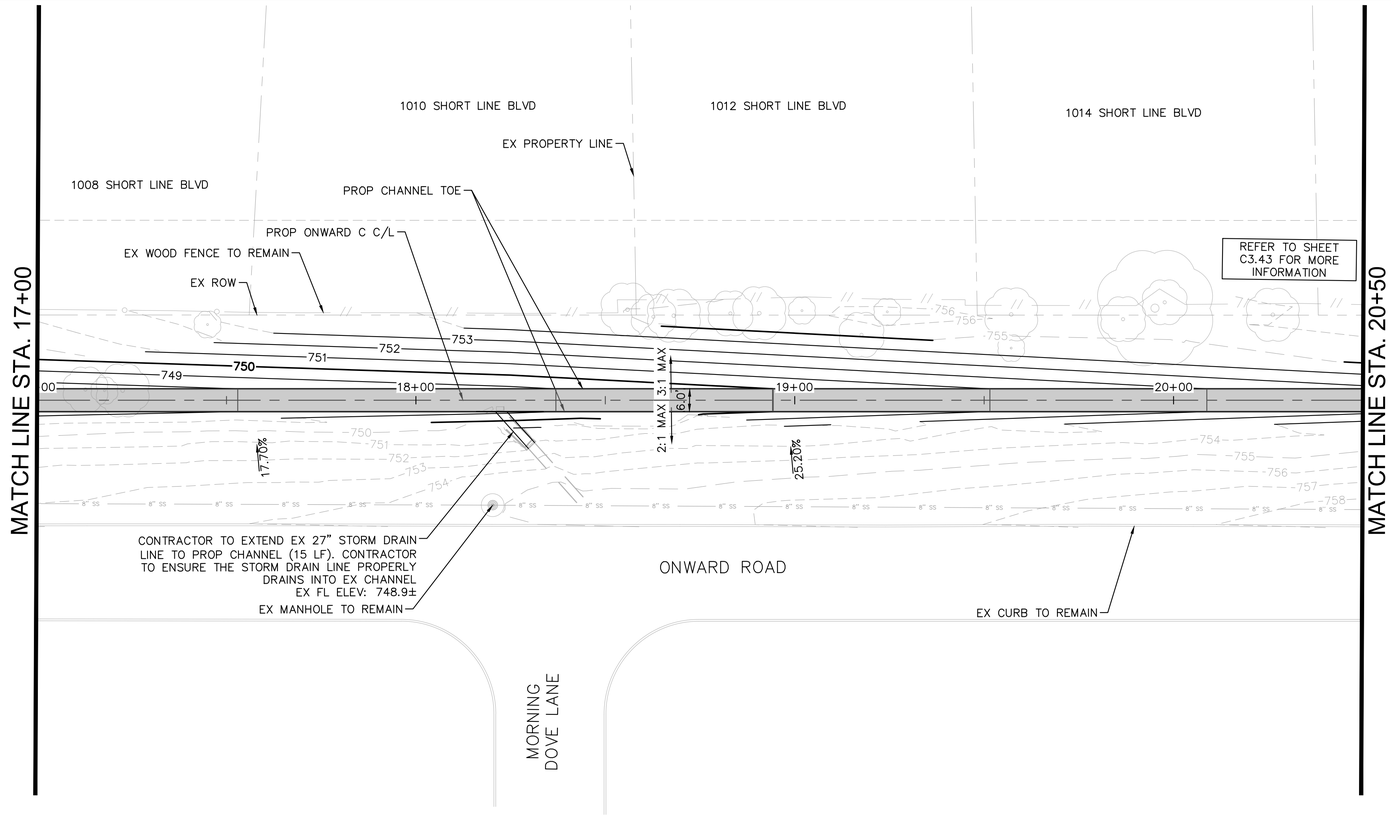
Plotted By: 2026-08-21 14:32:57, Cratty, Austin
Last Saved: 2026-08-21 14:30:02 (ONWARD CHANNEL - STA 13+00 TO 17+00)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm outfall c.dwg

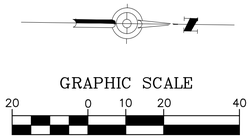


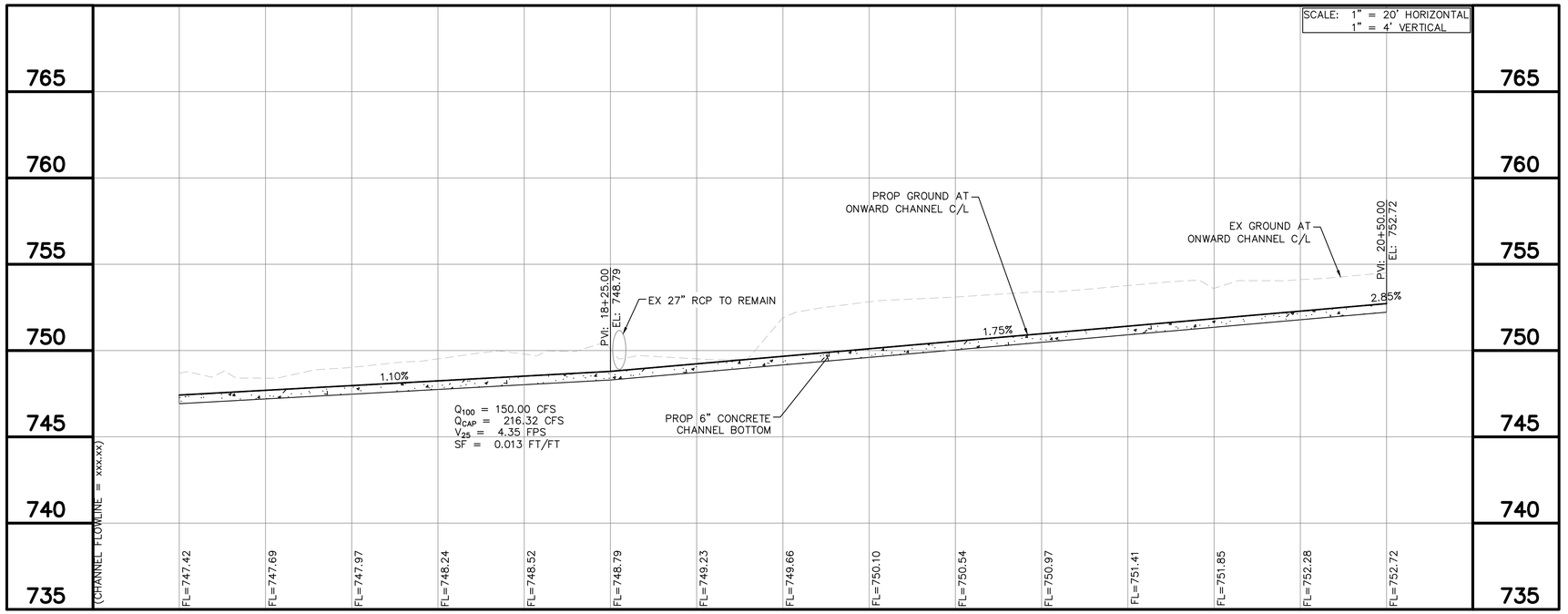
KEY MAP

LEGEND

PROP CONCRETE CHANNEL







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REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

ONWARD CHANNEL - STA 17+00 TO 20+50 - ALTERNATE #2

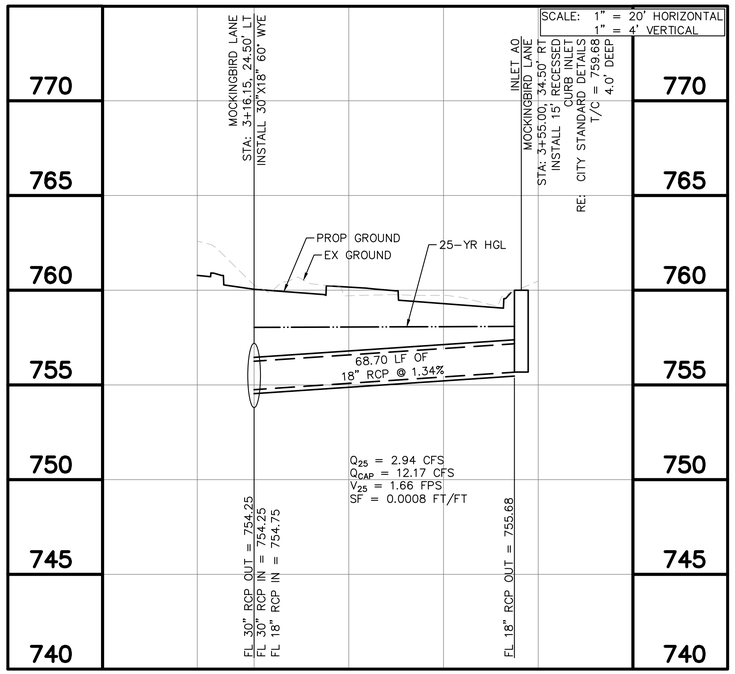
DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

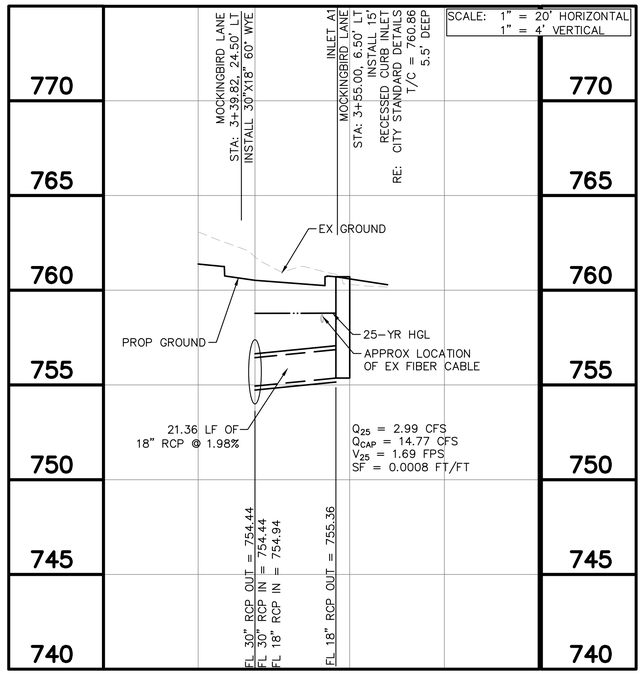
C3.50

Plotted By: 2026-08-21 13:13:22, Del Rosso, Austin
Last Saved: 2026-08-21 09:39:29 (ONWARD CHANNEL - STA 17+00 TO END)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm outfall c.dwg

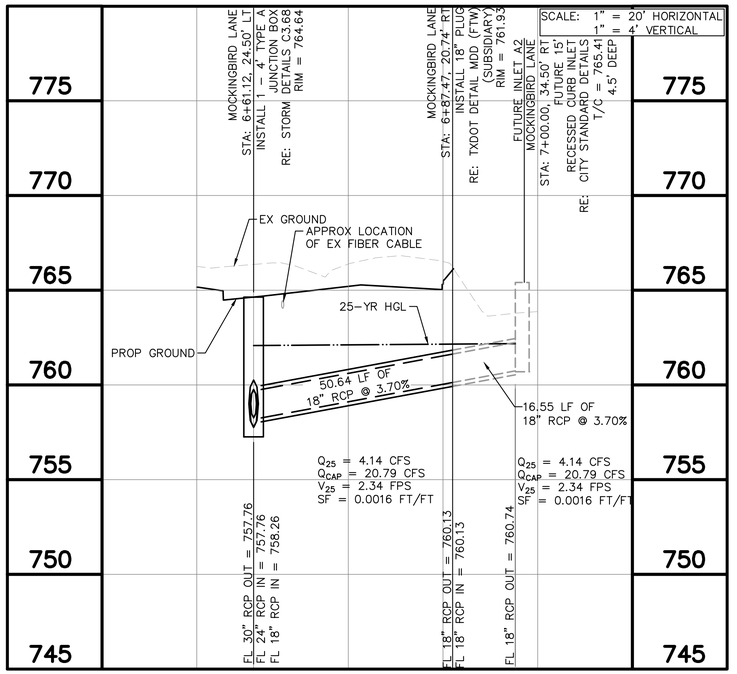
LAT A0



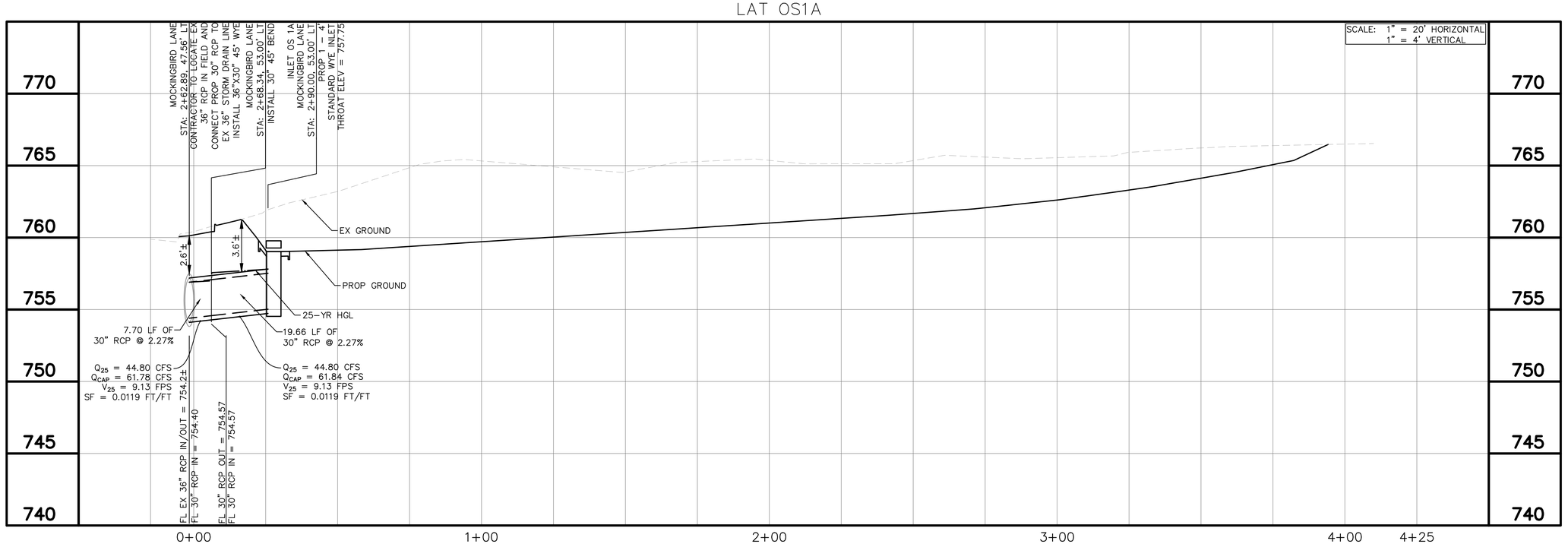
LAT A1



LAT A2



LAT OS1A



Kimley»Horn

801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026

STATE OF TEXAS — KRISTY D. CHRISTIAN — 98384 — REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

STORM DRAIN LATERALS
SYSTEM A

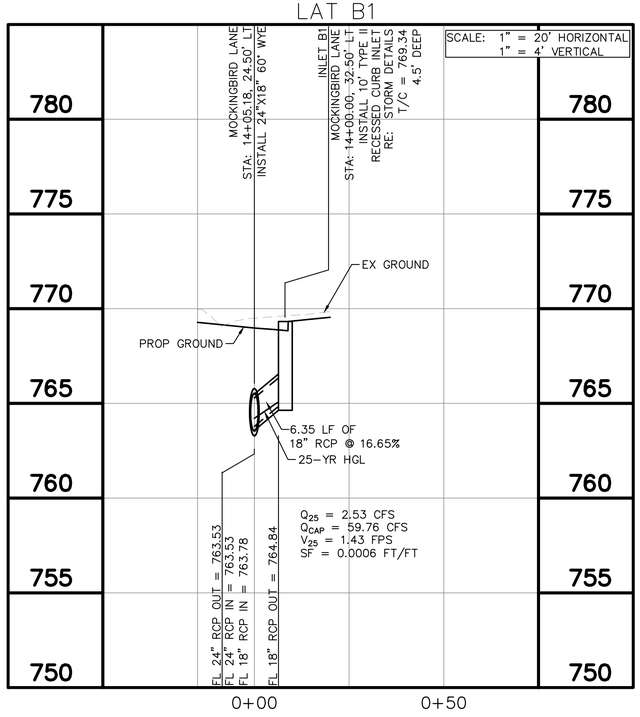
DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

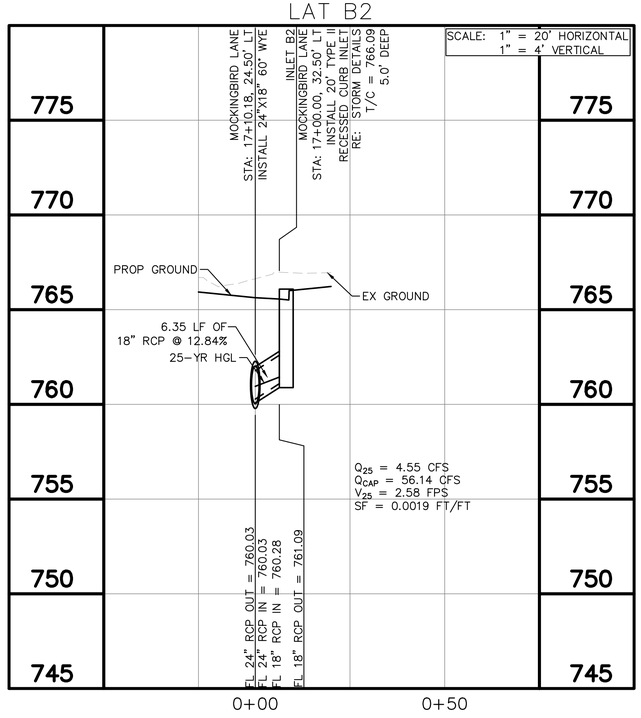
C3.51

Plotted, By: 2026-08-21 13:14:06, Del Rosso, Austin
Last Saved: 2026-08-21 09:14:45 (STORM DRAIN LATERALS SYSTEM A)
k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain laterals.dwg
Filename: storm drain laterals.dwg

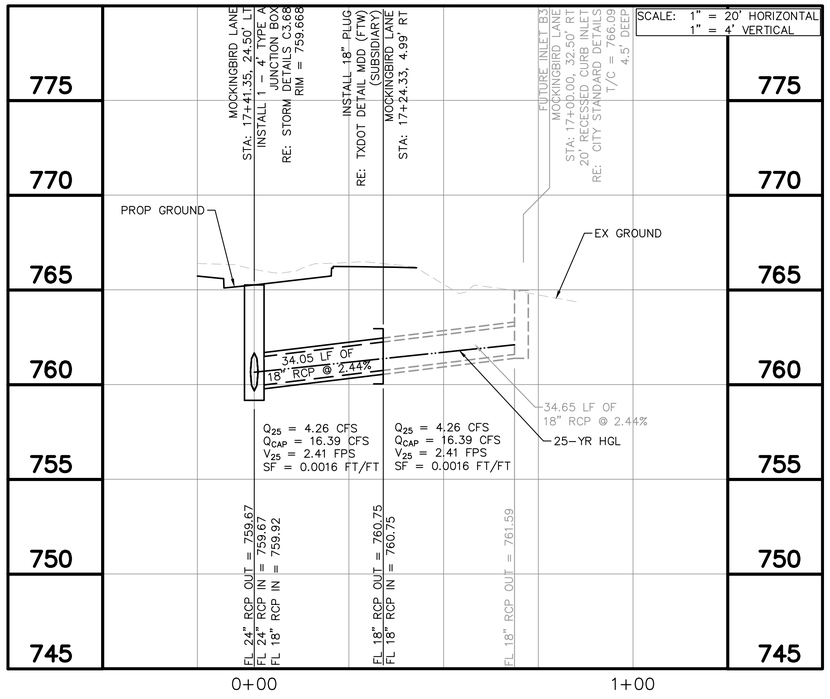
LAT B1



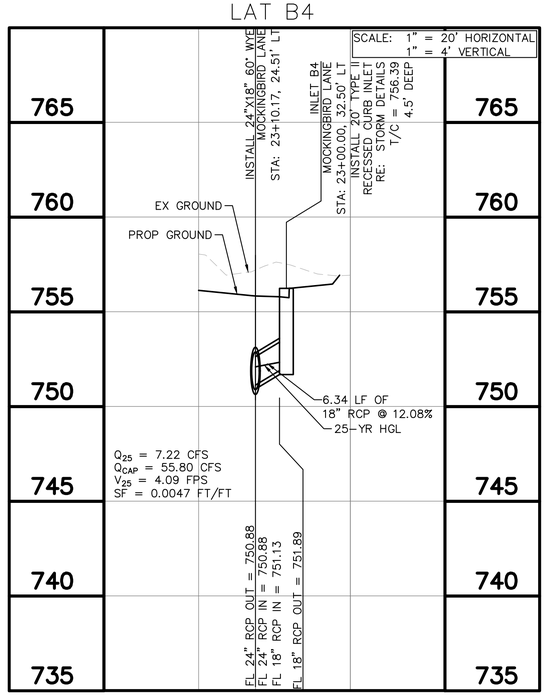
LAT B2



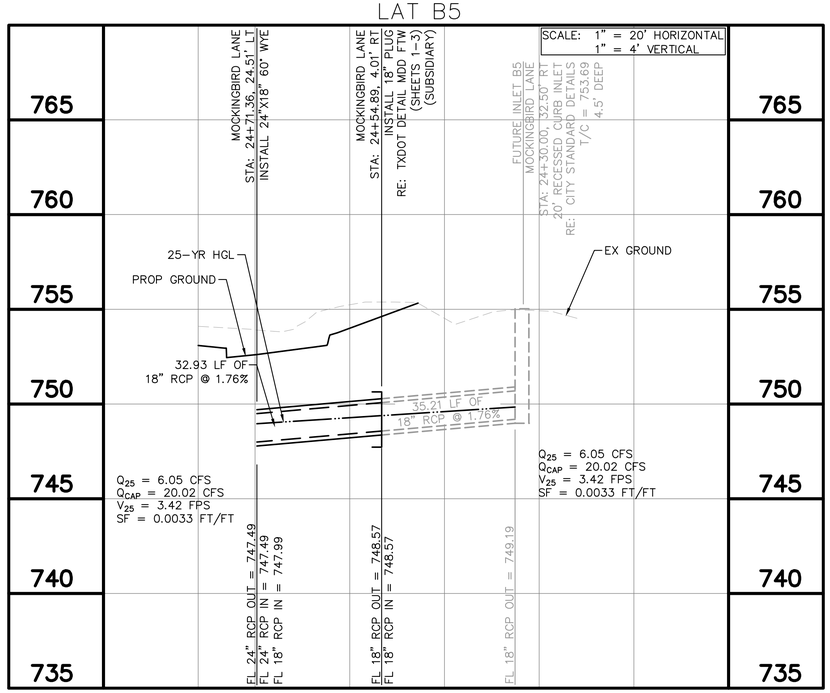
LAT B3



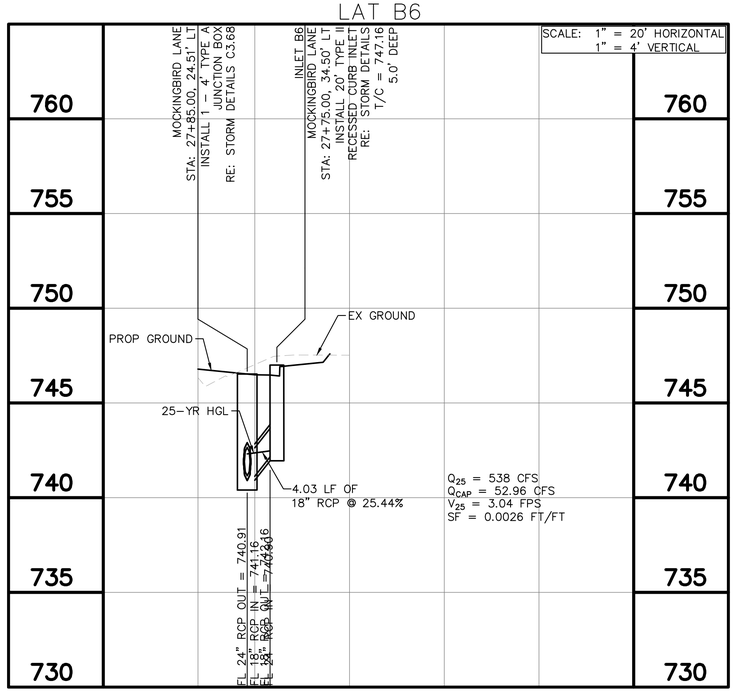
LAT B4



LAT B5



LAT B6



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CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

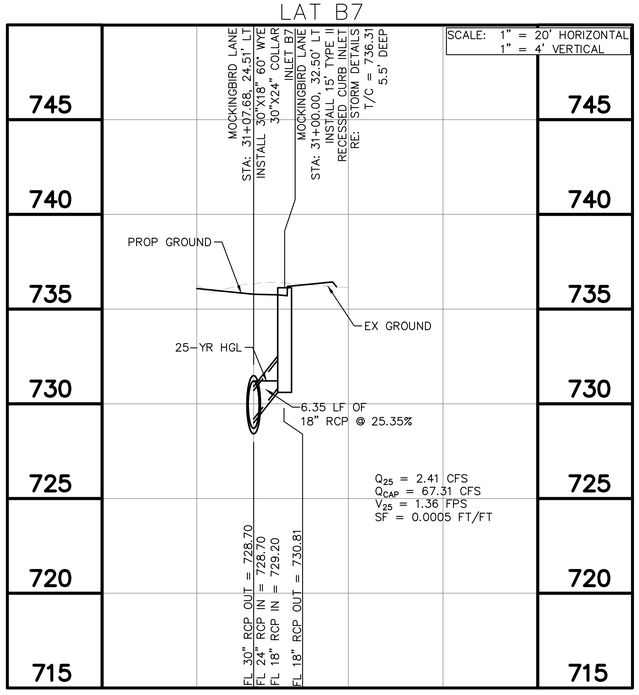
STORM DRAIN LATERALS
SYSTEM B - (SHEET 1 OF 3)

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

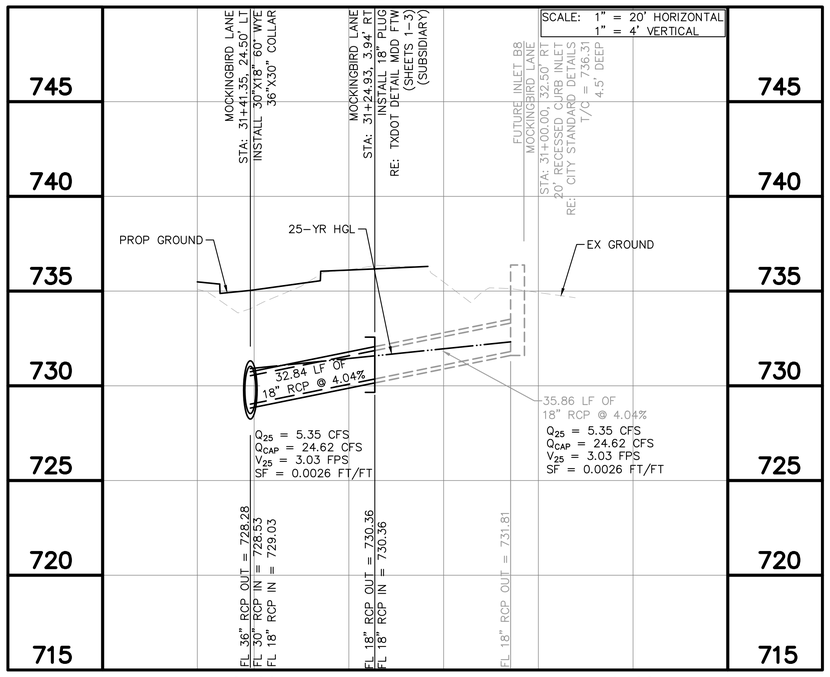
SHEET NUMBER
C3.52

Plotted, By: 2026-08-21 13:14:31, Del Rosso, Austin
Last Saved: 2026-08-21 09:14:45 (STORM DRAIN LATERALS SYSTEM B - (SHEET 1 OF 3))
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain laterals.dwg

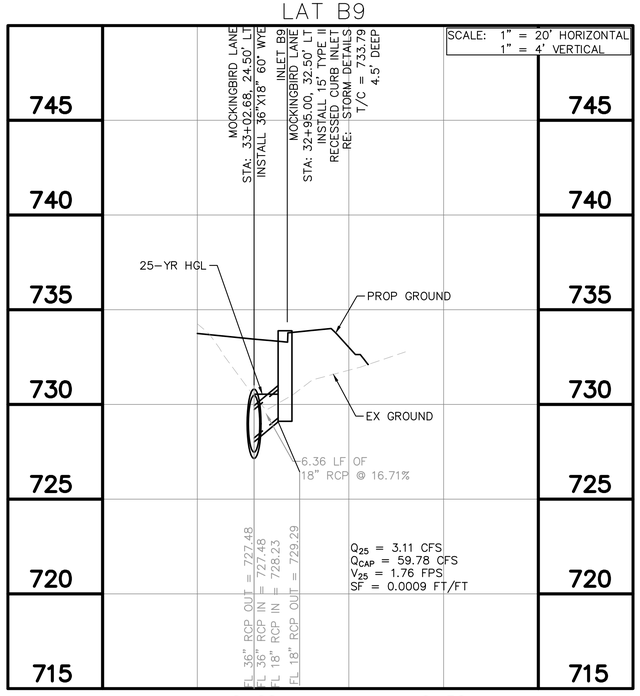
LAT B7



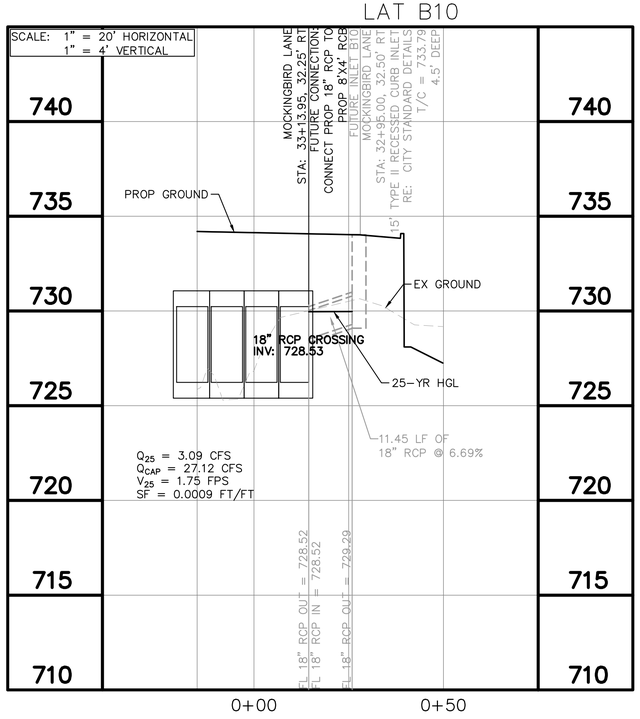
LAT B8



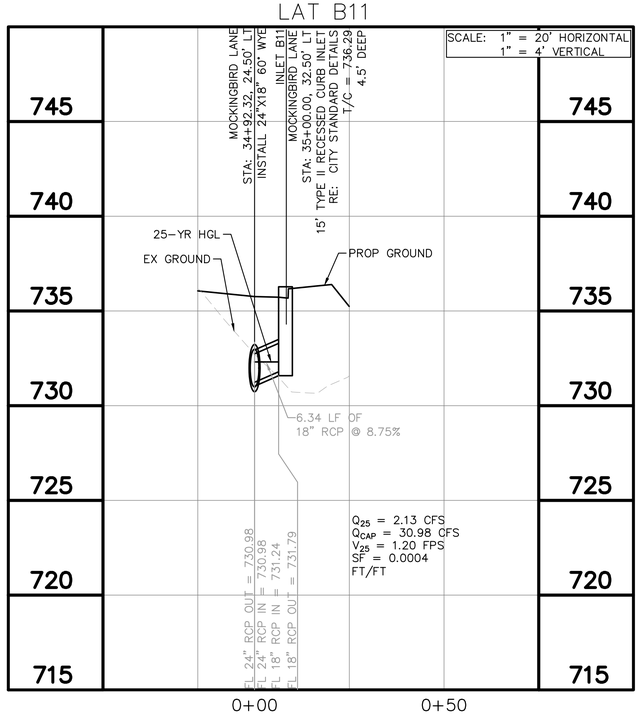
LAT B9



LAT B10



LAT B11



2026-08-21 13:14:53, Del Rosso, Austin
2026-08-21 09:14:45 (STORM DRAIN LATERALS SYSTEM B - (SHEET 2 OF 3))
Plotted, By:
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird
Filename: lane\cadd\sheets\storm drain laterals.dwg

Kimley»Horn
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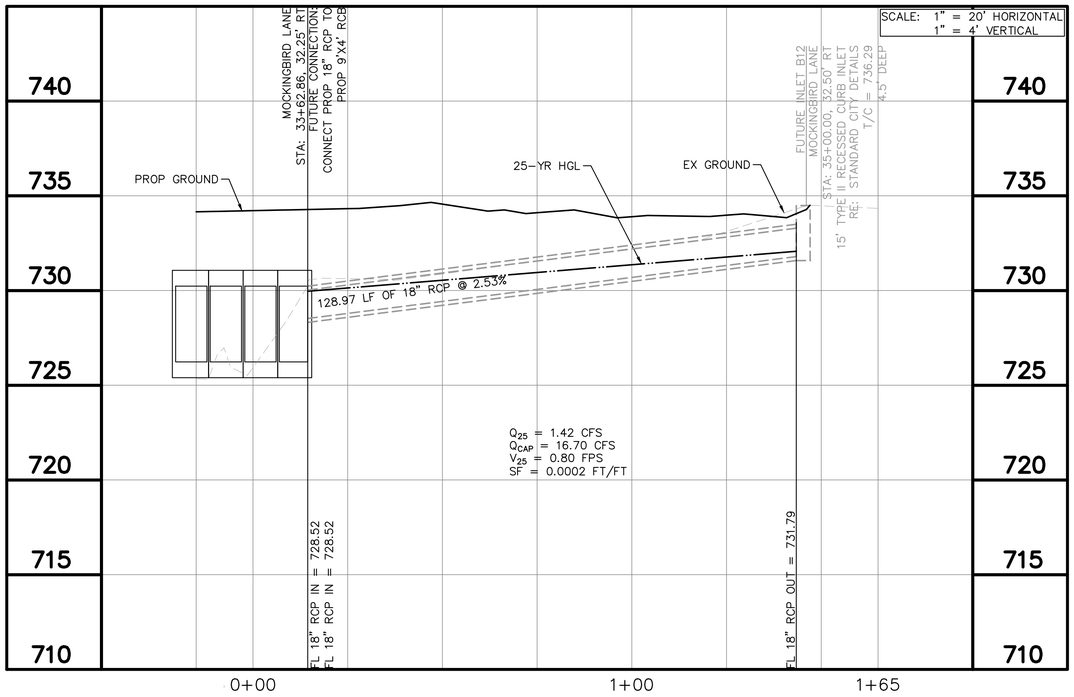
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

STORM DRAIN LATERALS
SYSTEM B - (SHEET 2 OF 3)

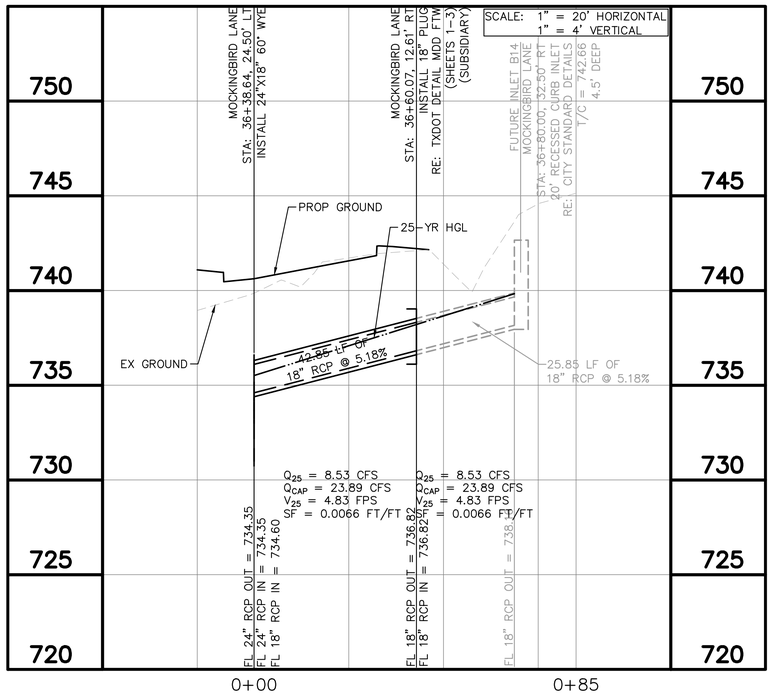
DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER
C3.53

LAT B12



LAT B14



Kimley»Horn
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98384
REGISTERED
PROFESSIONAL
ENGINEER

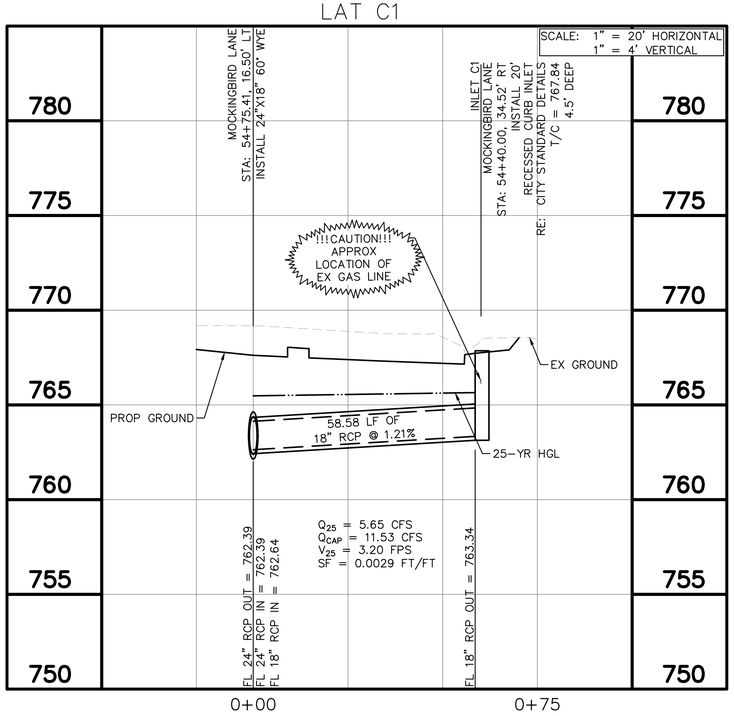
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

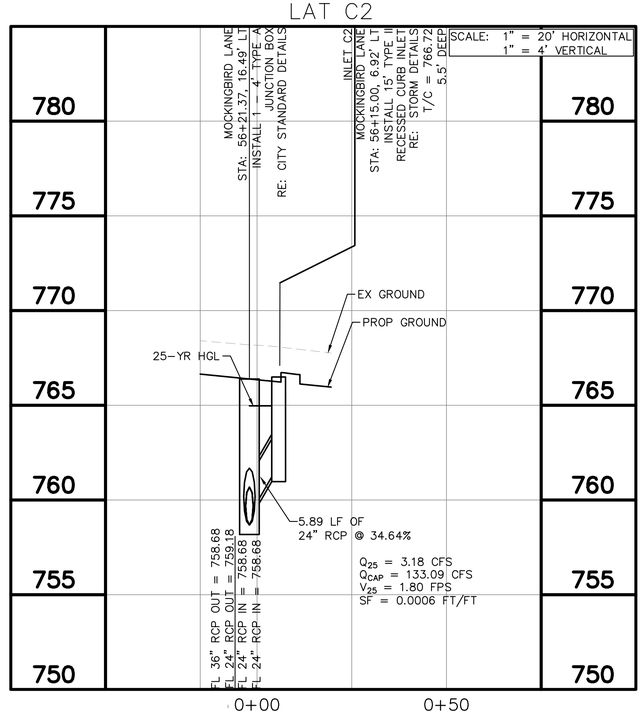
STORM DRAIN
LATERALS SYSTEM B -
(SHEET 3 OF 3)

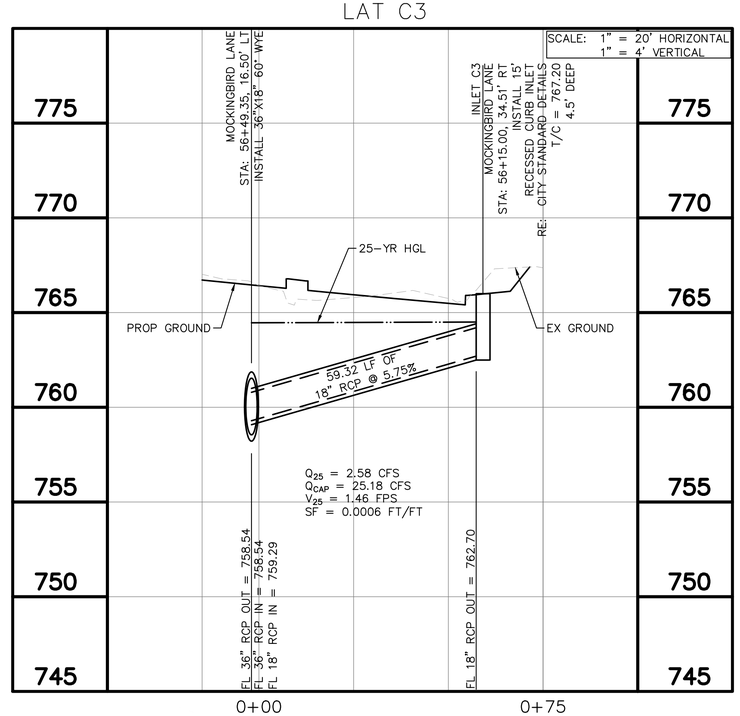
DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

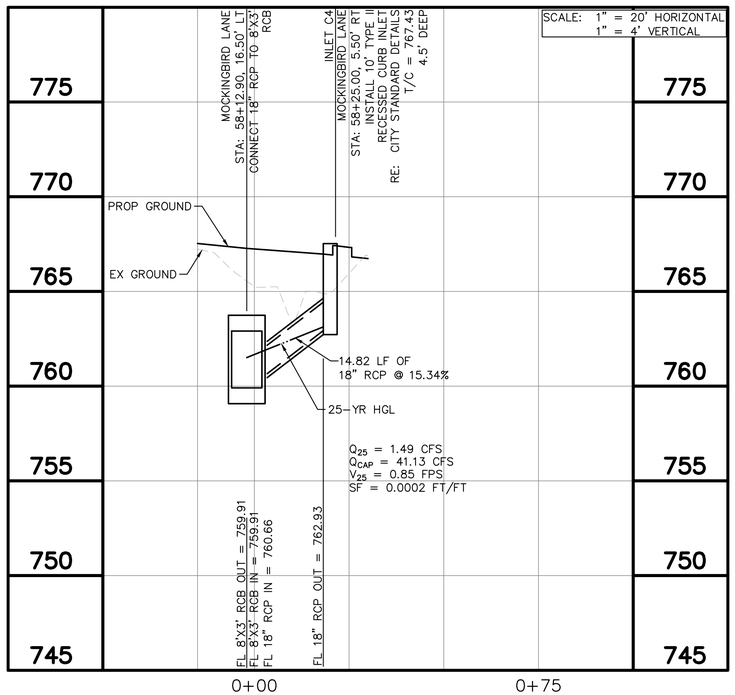
SHEET NUMBER
C3.54

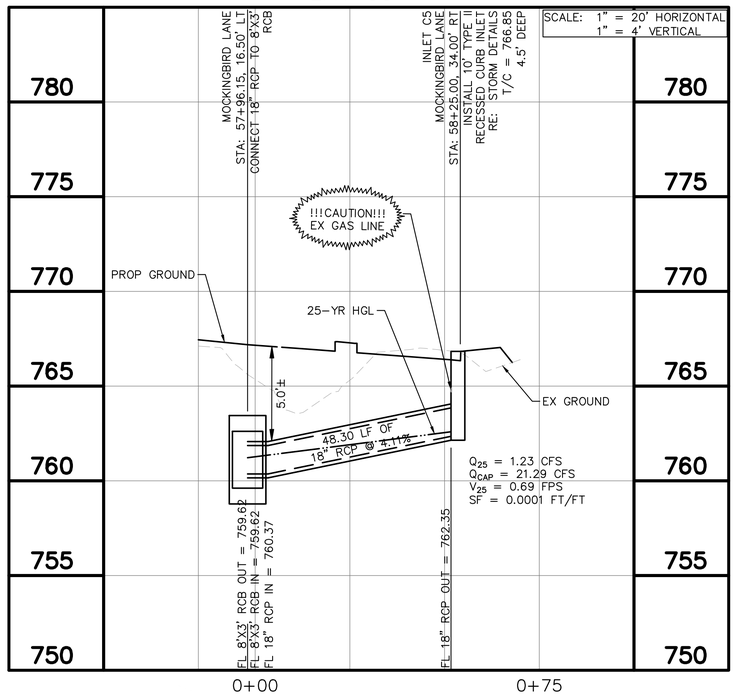
Plotted, By: 2026-08-21 13:15:04, Del Rosso, Austin
Last Saved: 2026-08-21 09:14:45 (STORM DRAIN LATERALS SYSTEM B - (SHEET 3 OF 3))
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain laterals.dwg

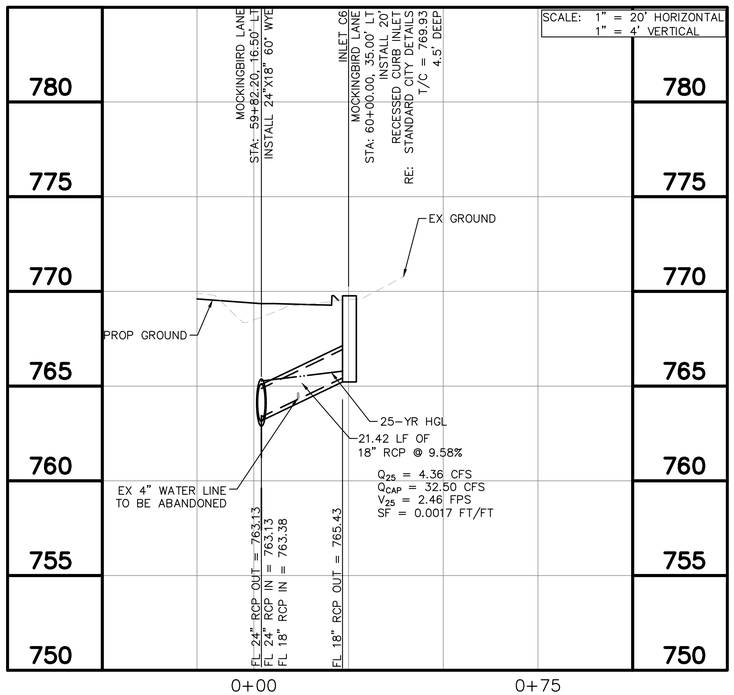












Kimley»Horn

No.	Revision	By	Date

801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

8/21/2026

STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

STORM DRAIN
LATERALS SYSTEM C
- (SHEET 1 OF 2)

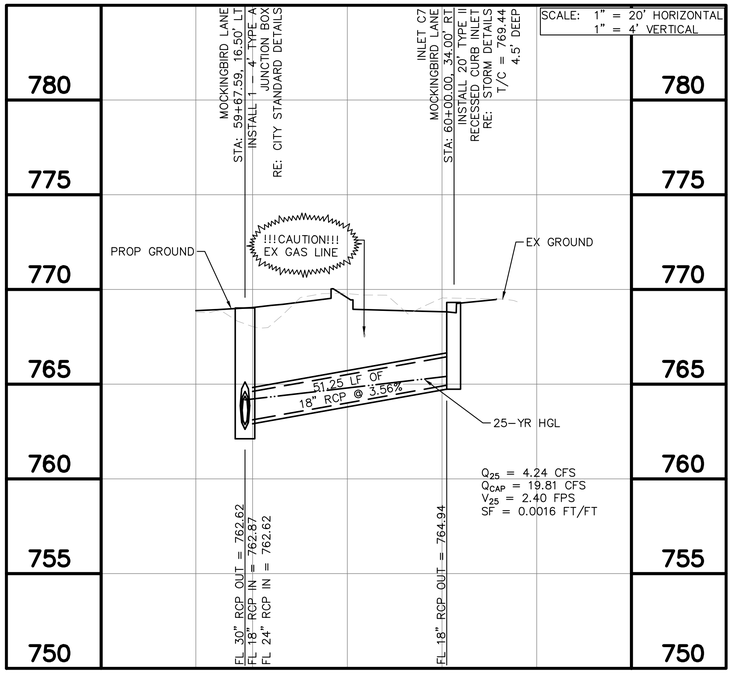
DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

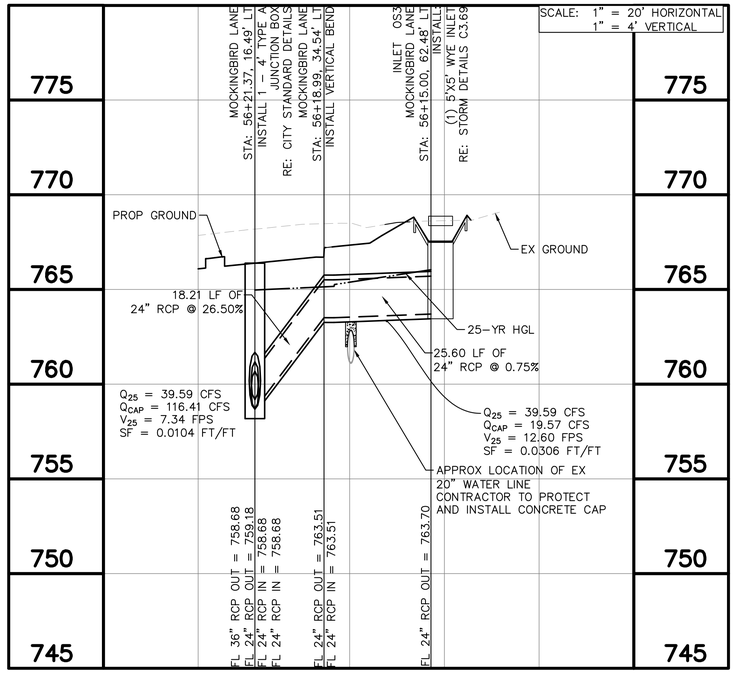
C3.55

Plotted By: 2026-08-21 13:15:29, Del Rosso, Austin
Last Saved: 2026-08-21 09:14:45 (STORM DRAIN LATERALS SYSTEM C - (SHEET 1 OF 2))
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain laterals.dwg

LAT C7



LAT OS3



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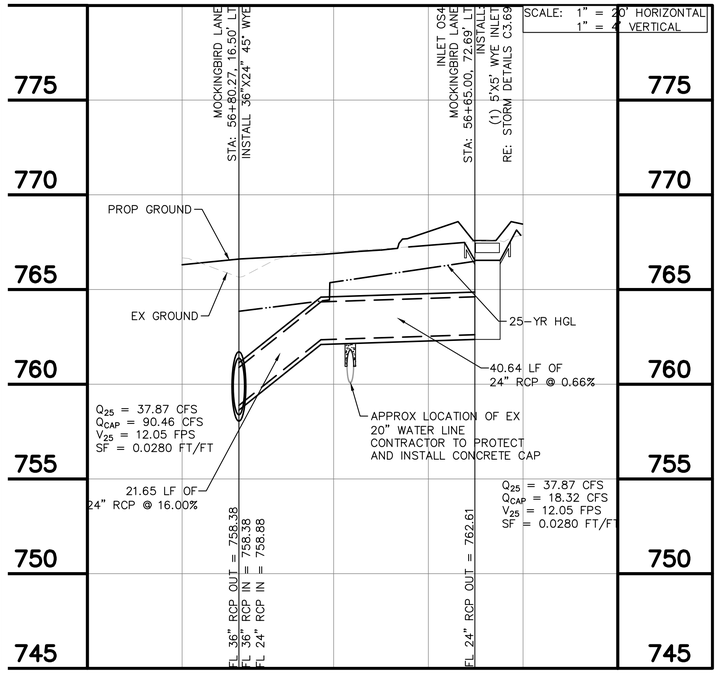
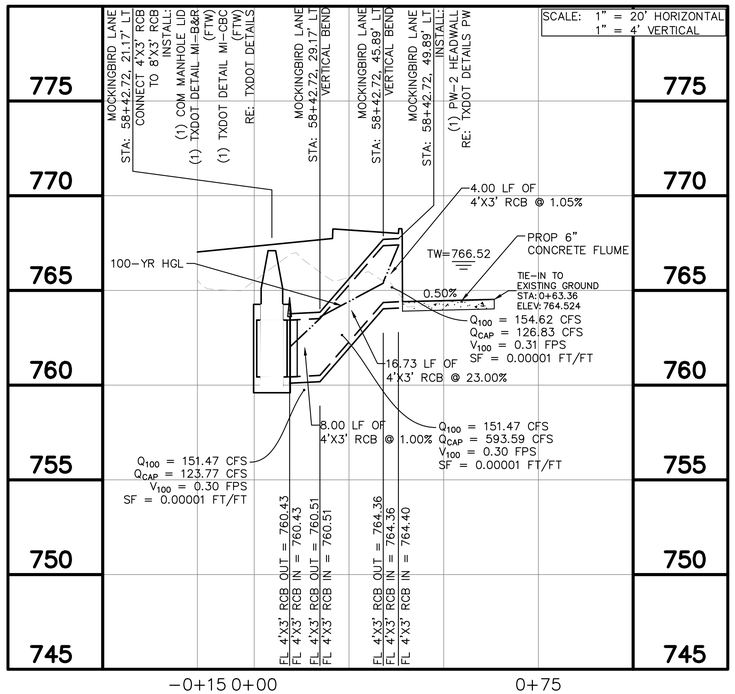
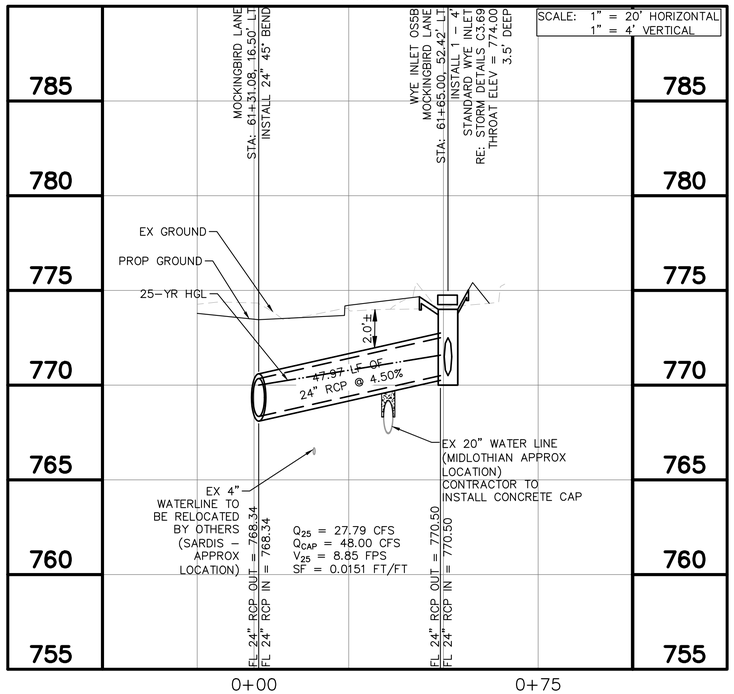


LAT OS5A



LAT OS5B



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2026-08-21 09:14:45 (STORM DRAIN LATERALS SYSTEM C - (SHEET 2 OF 2))
Plotted, By:
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird
Filename: lane\cadd\sheets\storm drain laterals.dwg

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER

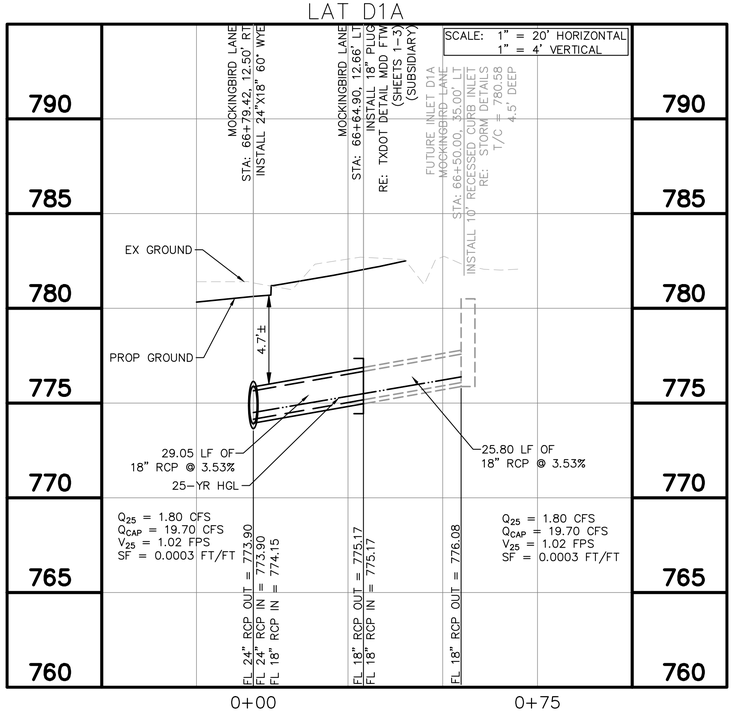
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

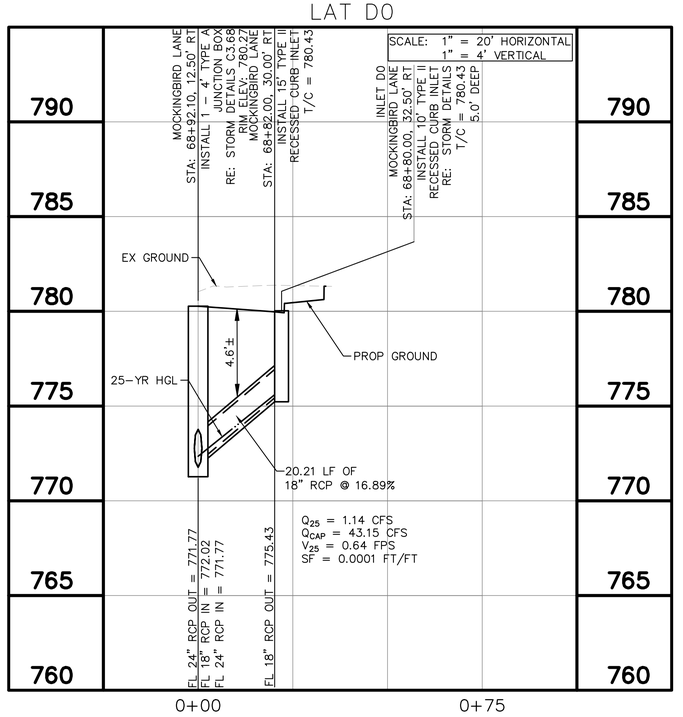
STORM DRAIN
LATERALS SYSTEM C
- (SHEET 2 OF 2)

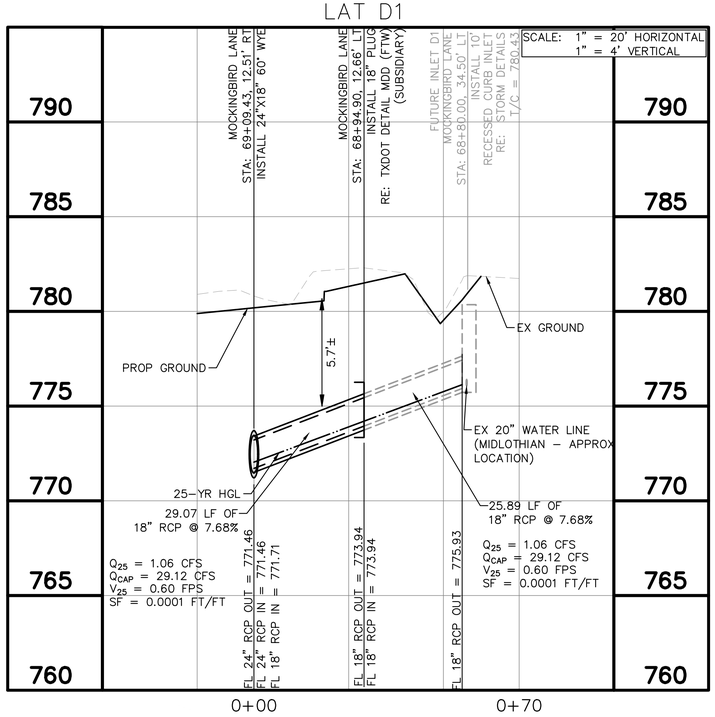
DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

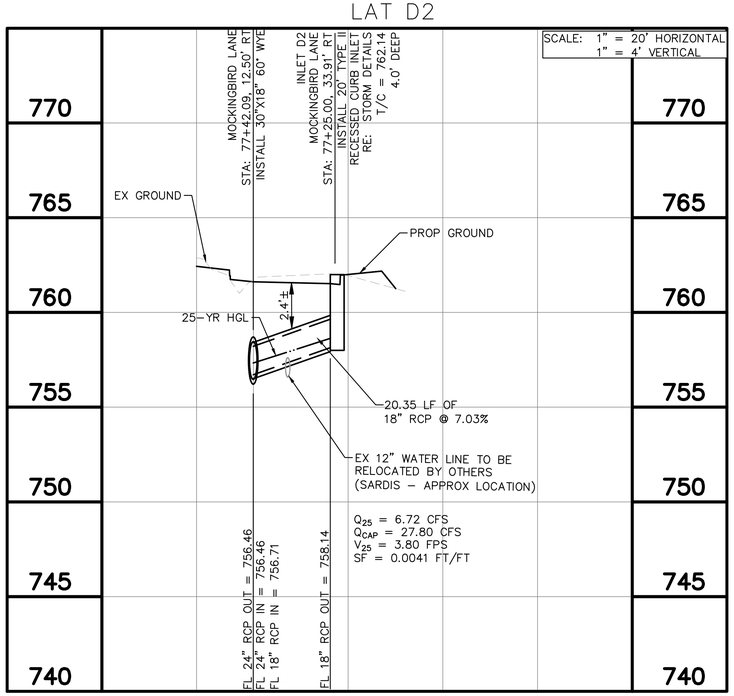
SHEET NUMBER

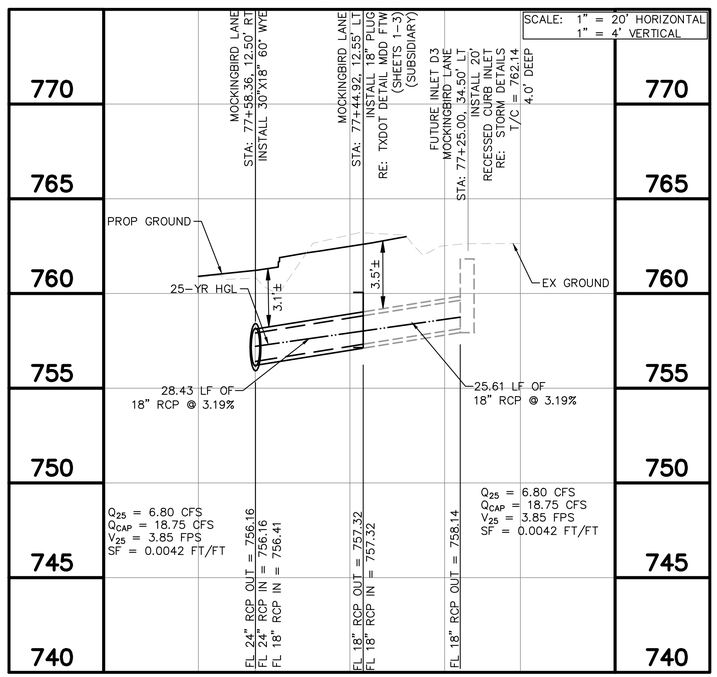
C3.56











2026-08-21 13:16:10, Del Rosso, Austin
2026-08-21 09:14:45 (STORM DRAIN LATERALS SYSTEM D (SHEET 1 OF 2))
Plotted, By:
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain laterals.dwg
Filename:

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MICHAEL D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

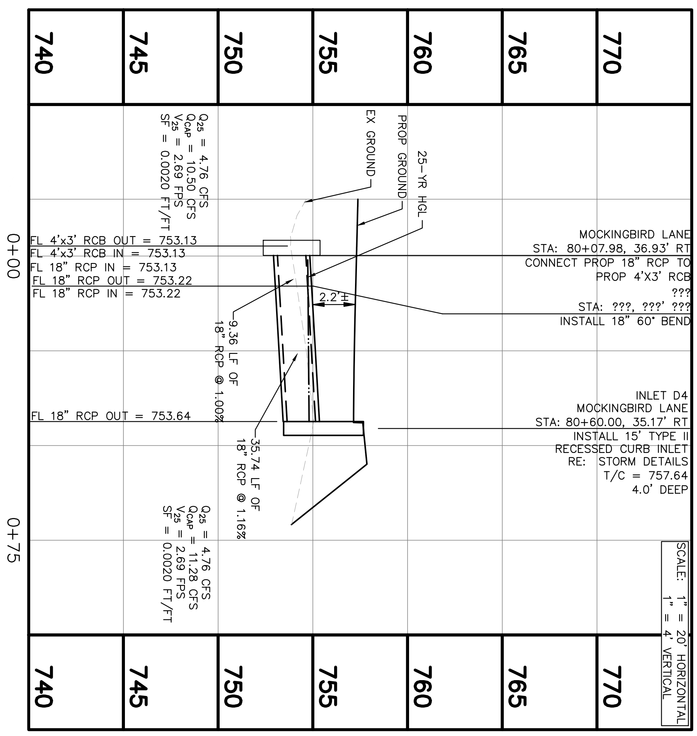
STORM DRAIN
LATERALS SYSTEM D
(SHEET 1 OF 2)

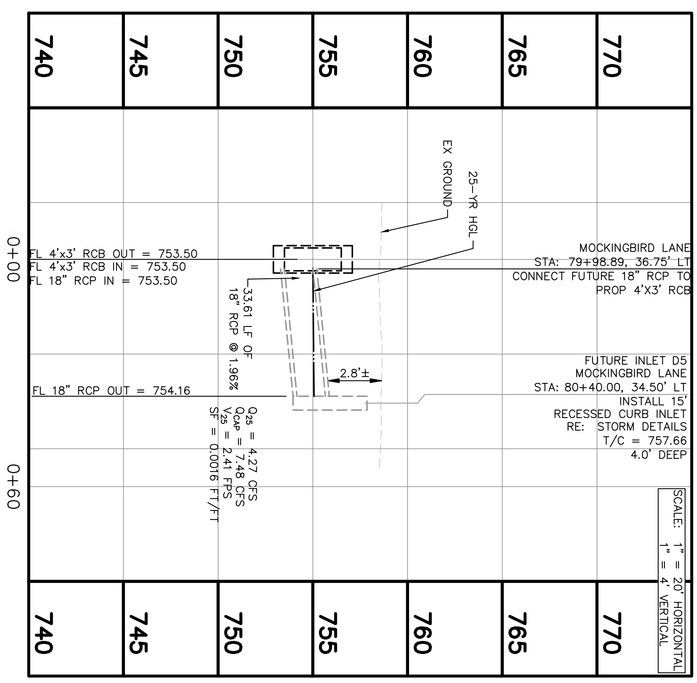
DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C3.57

2026-08-21 13:16:19, Del Rosso, Austin
2026-08-21 09:14:45 (STORM DRAIN LATERALS SYSTEM D
Plotted, By: (SHEET 2 OF 2))
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird
Filename: lane\cadd\sheets\storm drain laterals.dwg





C3.58
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

STORM DRAIN
LATERALS SYSTEM D
(SHEET 2 OF 2)

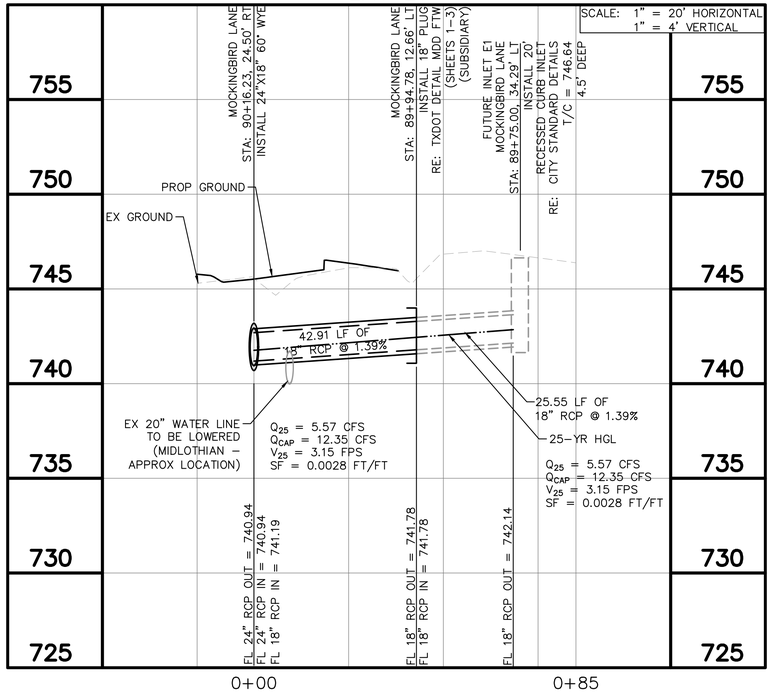
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

LAT E1



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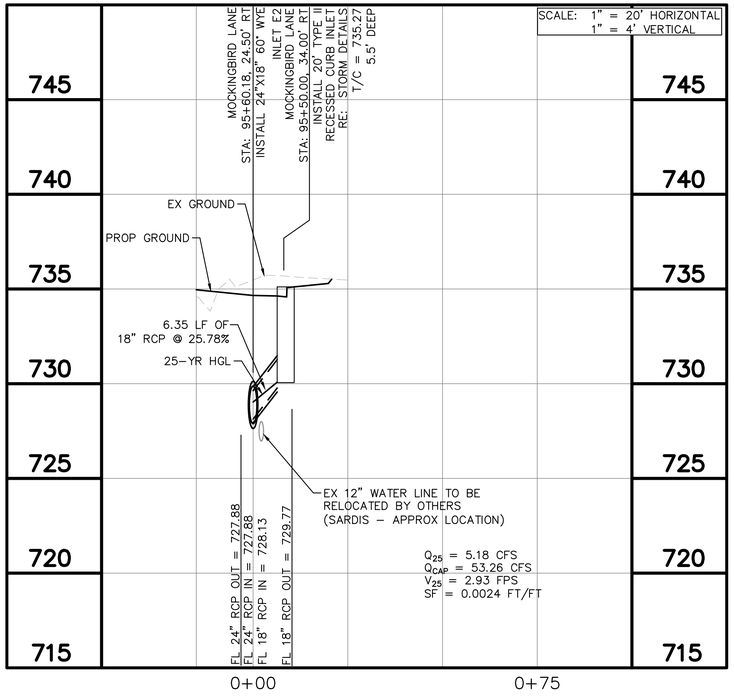
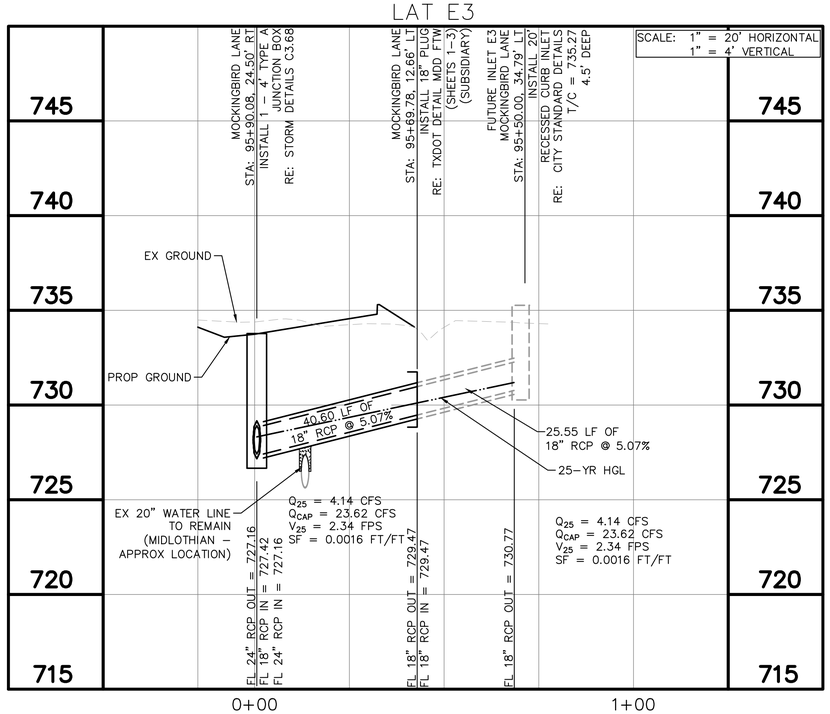


LAT E3



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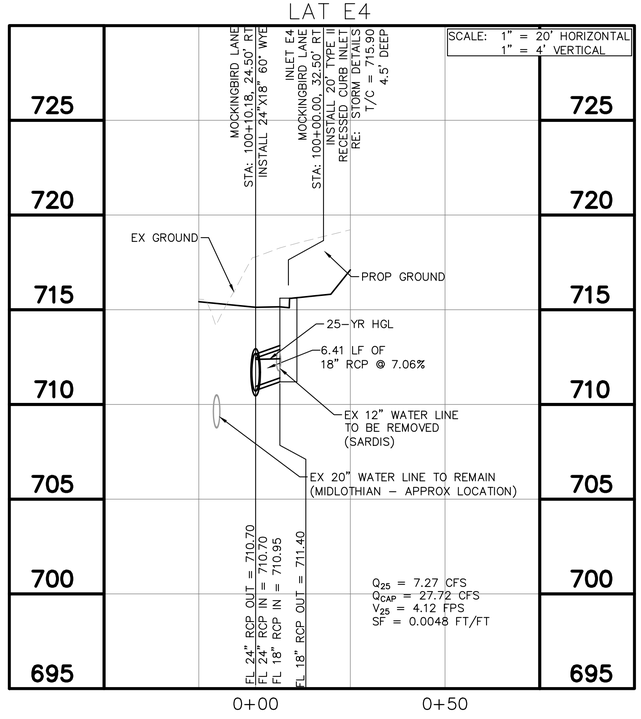


Plotted By: - (SHEET 1 OF 2))
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\storm drain laterals.dwg
Filename: 2026-08-21 13:16:37, Del Rosso, Austin
2026-08-21 09:14:45 (STORM DRAIN LATERALS SYSTEM E

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

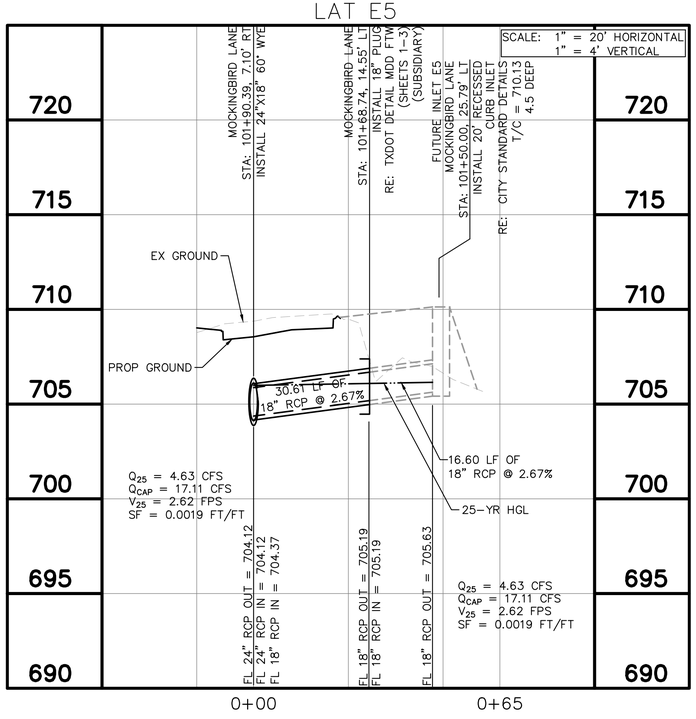
STORM DRAIN
LATERALS SYSTEM E
- (SHEET 1 OF 2)

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C3.59

LAT E5



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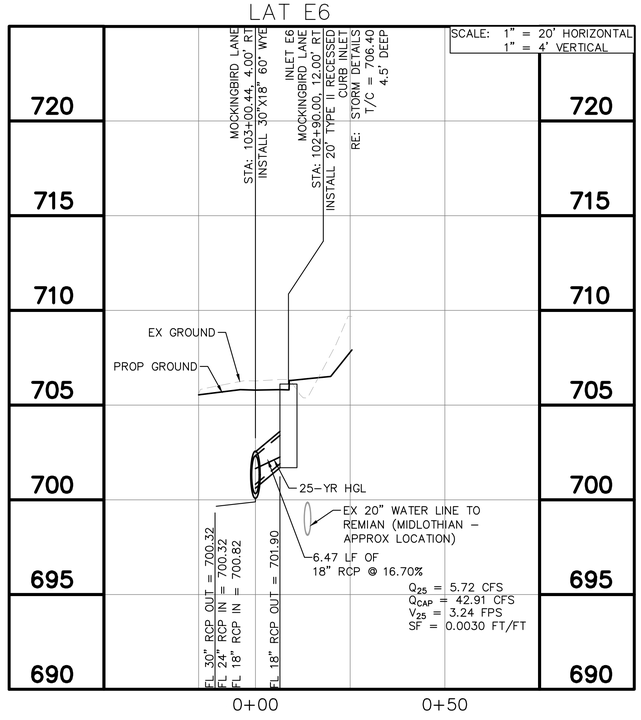

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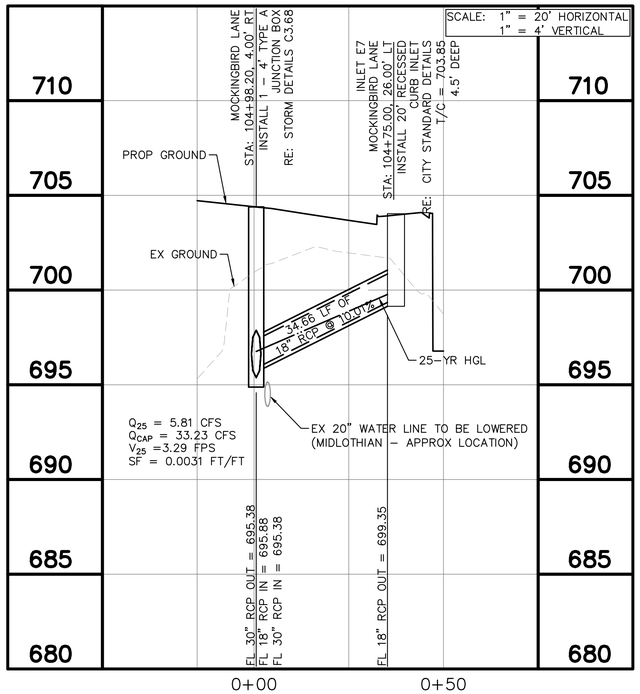
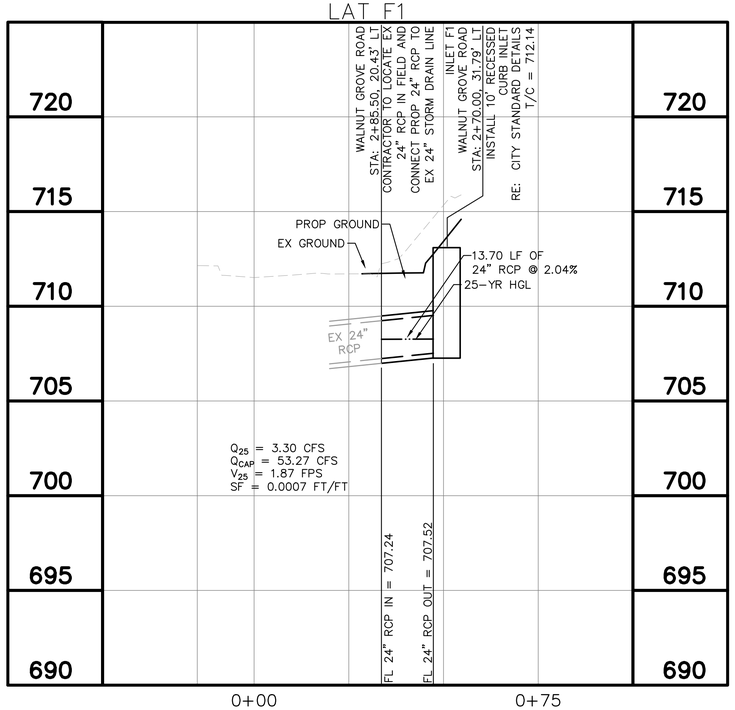


LAT F1



Plotted By: - (SHEET 2 OF 2))
Last Saved: 2026-08-21 09:14:45 k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\STORM DRAIN LATERALS SYSTEM E (STORM DRAIN LATERALS SYSTEM E - (SHEET 2 OF 2).dwg
Filename: 2026-08-21 13:16:54, Del Rosso, Austin

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

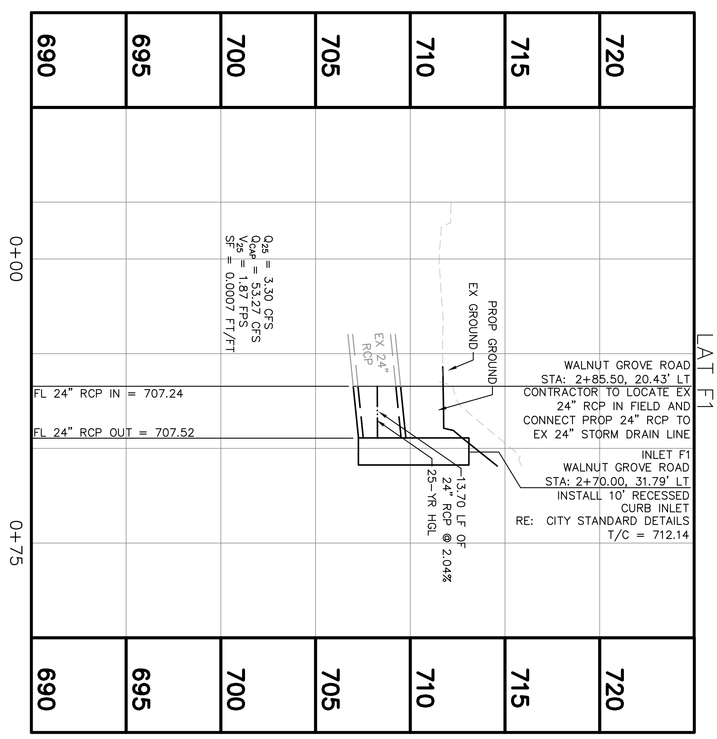
STORM DRAIN
LATERALS SYSTEM E
- (SHEET 2 OF 2)

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C3.60

2026-08-21 13:17:00, Del Rosso, Austin
Plotted, By: 2026-08-21 09:14:45 (STORM DRAIN LATERALS SYSTEM F)
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird
Filename: lane\cadd\sheets\storm drain laterals.dwg



C3.61
SHEET NUMBER

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

STORM DRAIN
LATERALS SYSTEM F

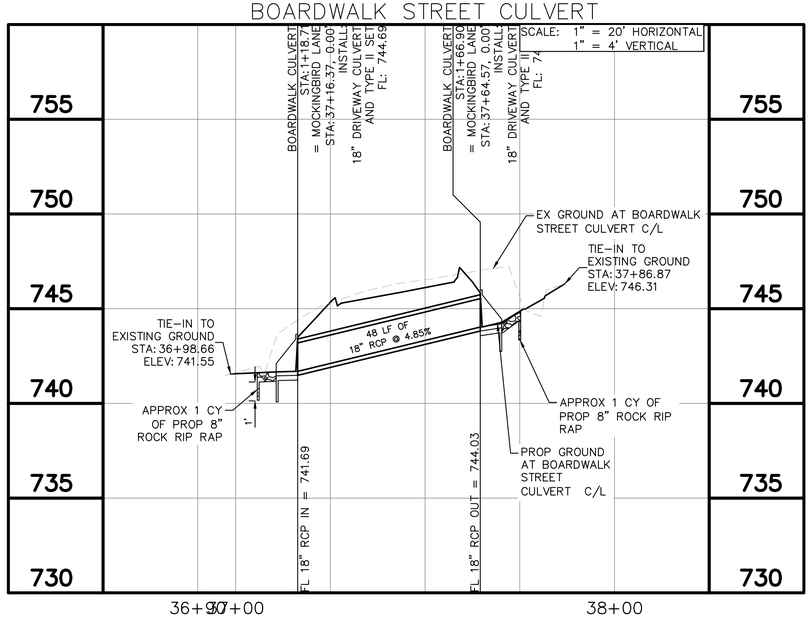
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

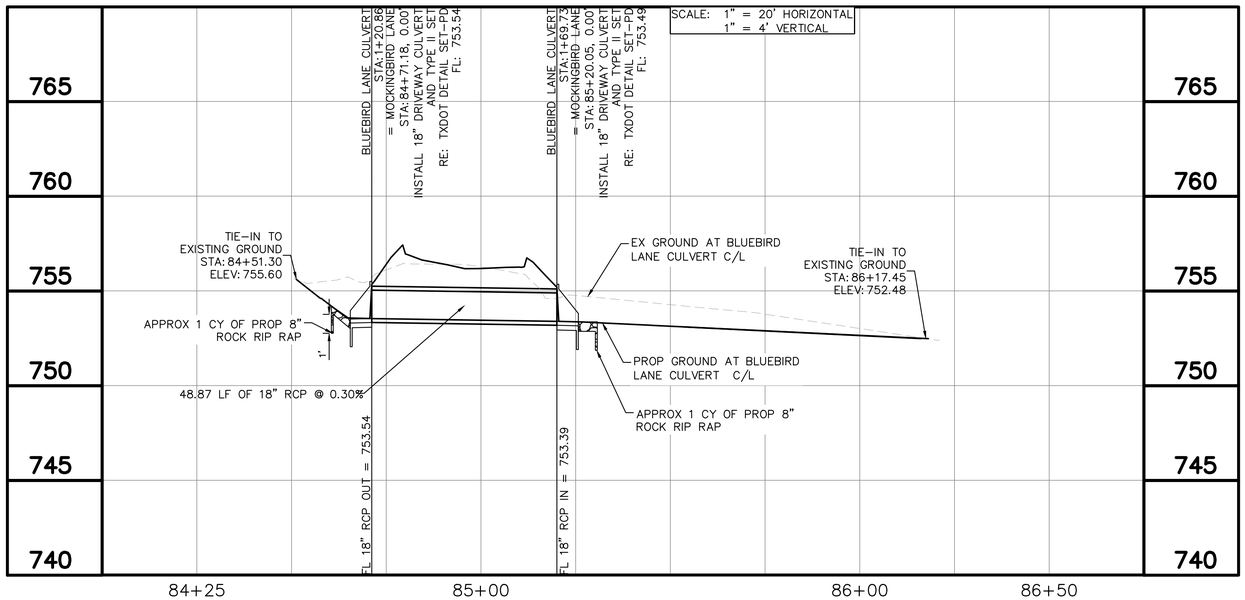
Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

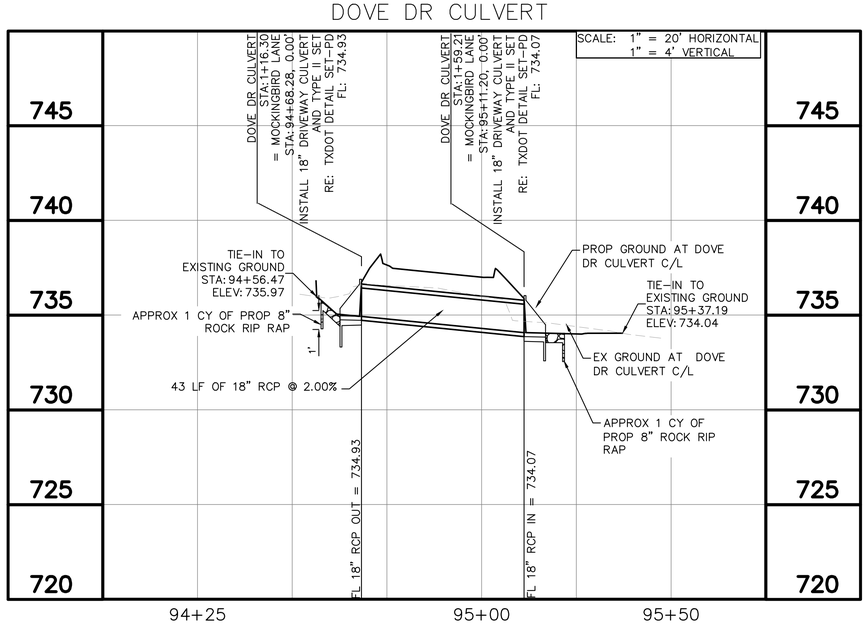
BOARDWALK STREET CULVERT



BLUEBIRD LANE CULVERT



DOVE DR CULVERT



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No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

SIDE STREET CULVERTS

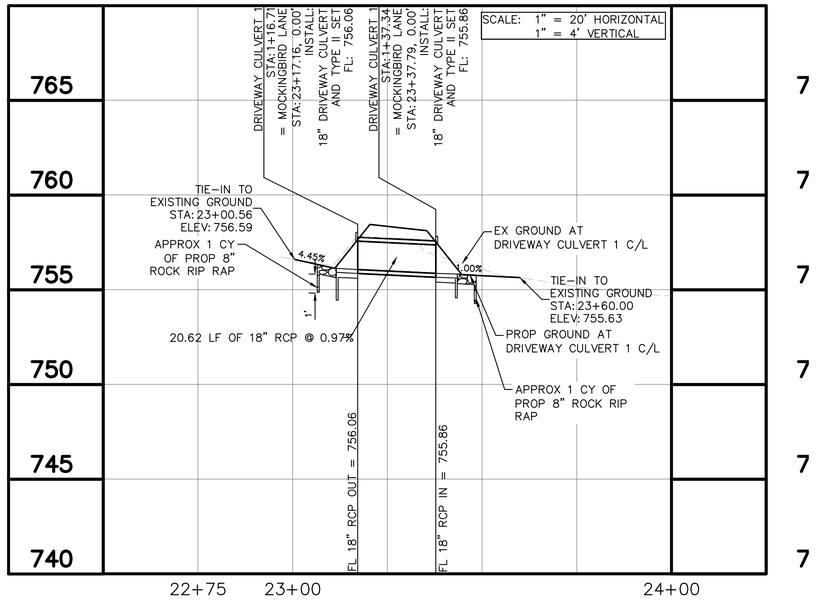
DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

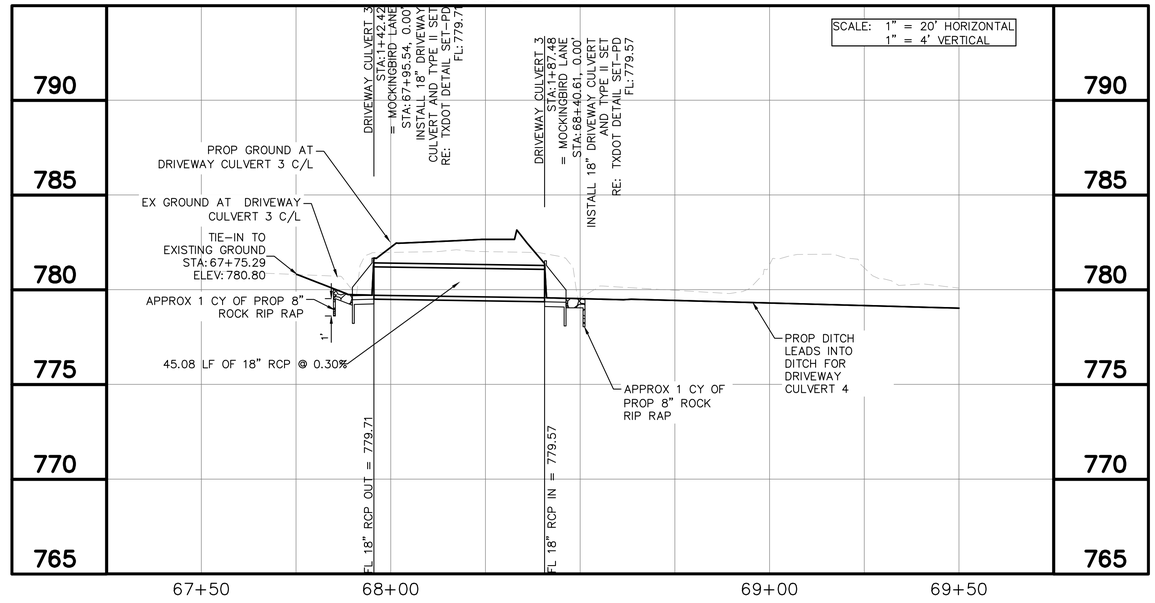
C3.62

Plotted, By: 2026-08-21 13:17:13, Del Rosso, Austin
Last Saved: 2026-08-20 17:57:48 (SIDE STREET CULVERTS)
k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\culverts.dwg
Filename:

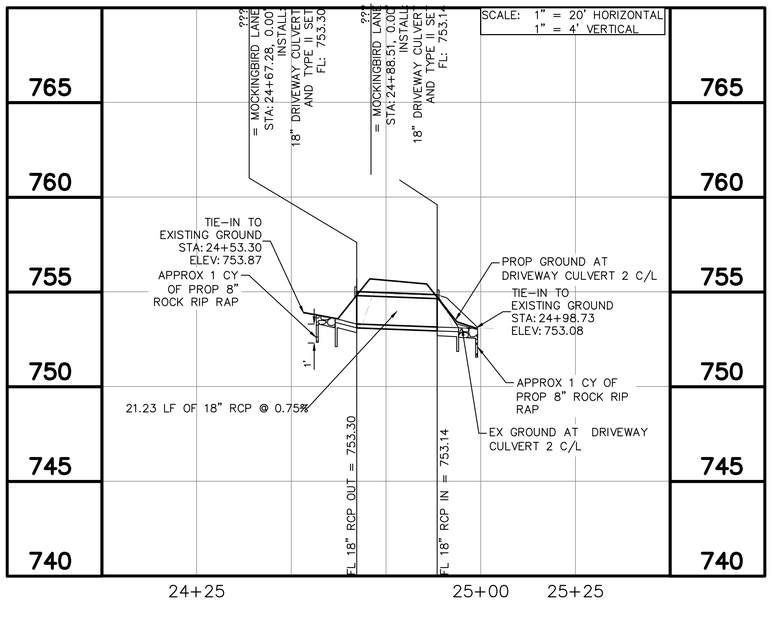
DRIVEWAY CULVERT 1



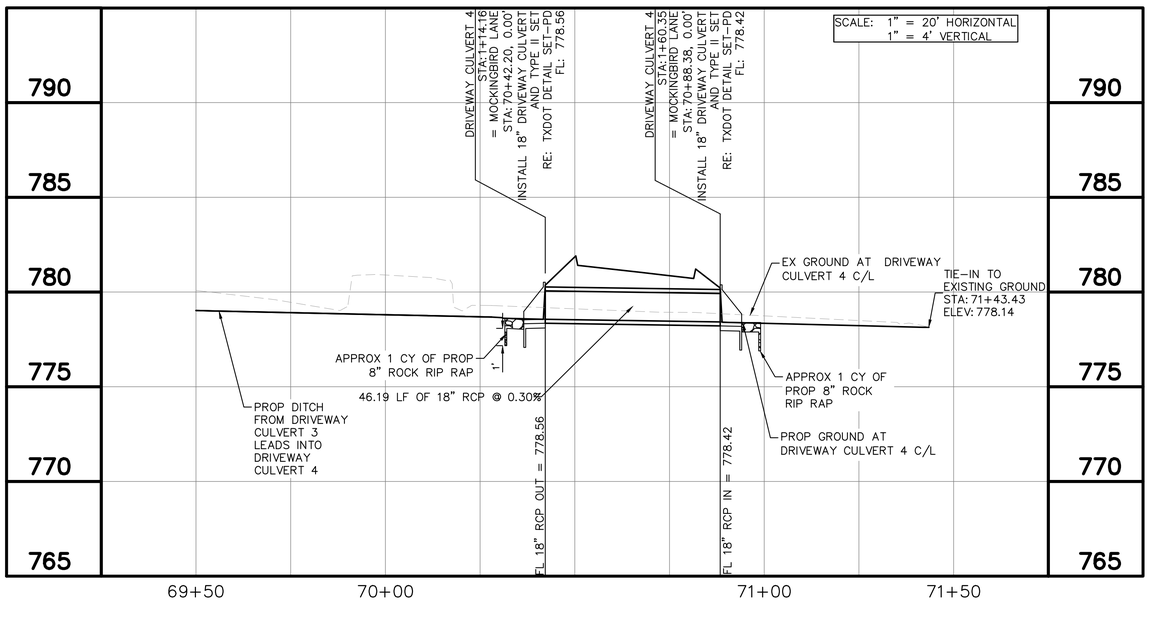
DRIVEWAY CULVERT 3



DRIVEWAY CULVERT 2



DRIVEWAY CULVERT 4



Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
KRISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

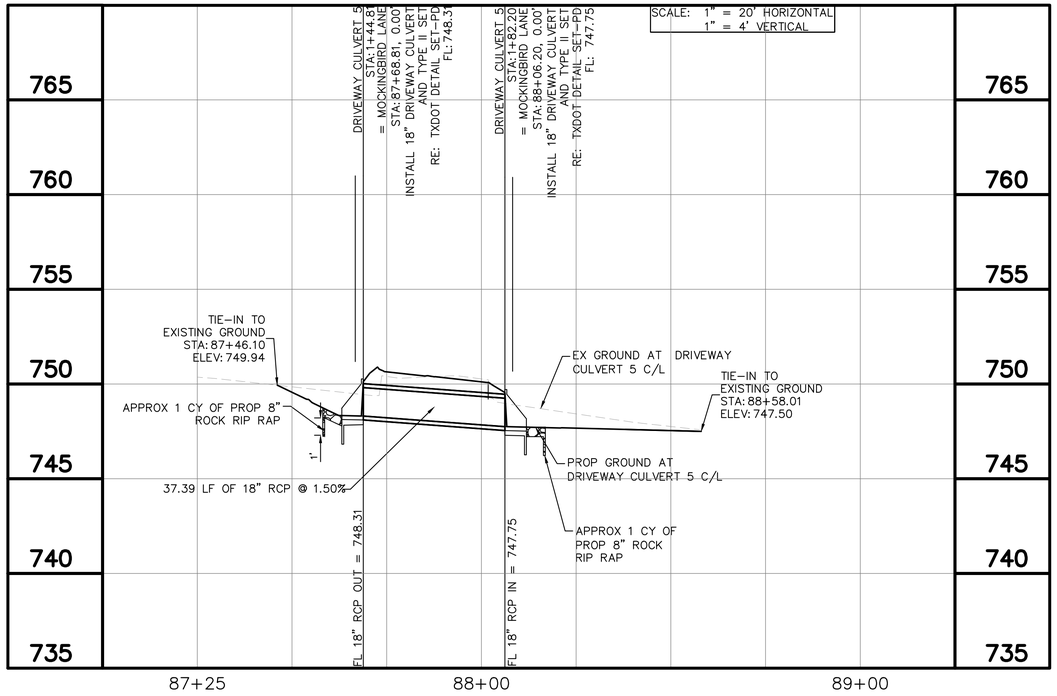
STORM DRAIN
DRIVEWAY CULVERTS
(SHEET 1 OF 2)

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

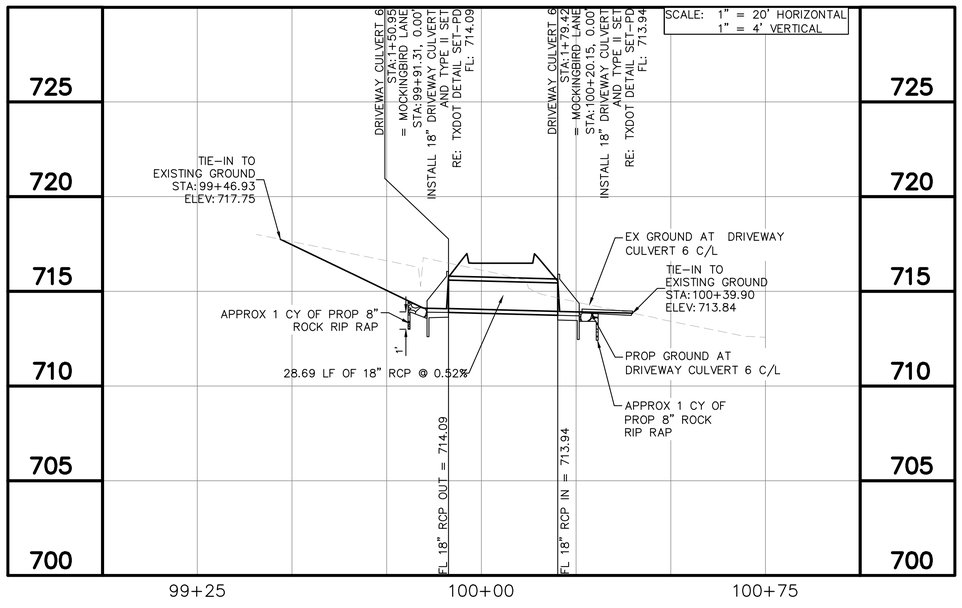
SHEET NUMBER
C3.63

Plotted By: 2026-08-21 13:17:16, Del Rosso, Austin
Last Saved: 2026-08-20 17:57:48 (DW CULVERTS 1-4)
k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\culverts.dwg
Filename:

DRIVEWAY CULVERT 5



DRIVEWAY CULVERT 6



Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER

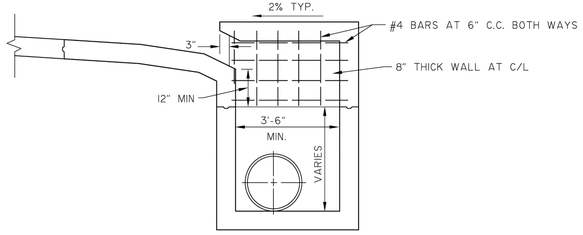
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

STORM DRAIN
DRIVEWAY CULVERTS
(SHEET 2 OF 2)

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

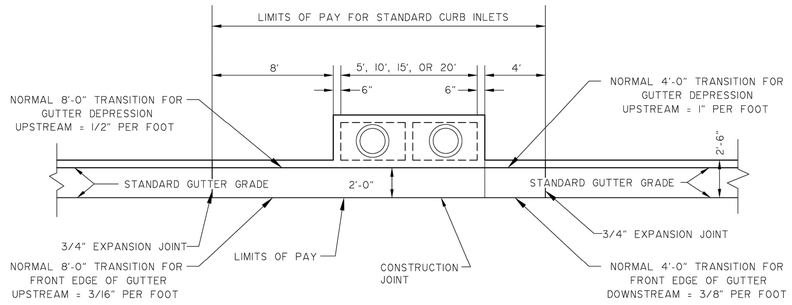
SHEET NUMBER
C3.64

Plotted, By: 2026-08-21 13:17:18, Del Rosso, Austin
Last Saved: 2026-08-20 17:57:48 (DW CULVERTS 5-6)
k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\culverts.dwg
Filename:



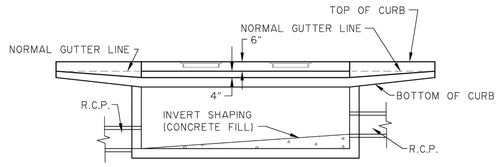
NOTES:
1. TOP OF INLET TO SLOPE 2% TOWARDS STREET.
2. REINFORCING STEEL LAYOUT APPLICABLE TO BOTH RECESSED AND ON-GRADE CURB INLETS.

1 CENTER SUPPORT BEAM FOR 15' & 20' RECESSED AND STANDARD INLETS
N.T.S.



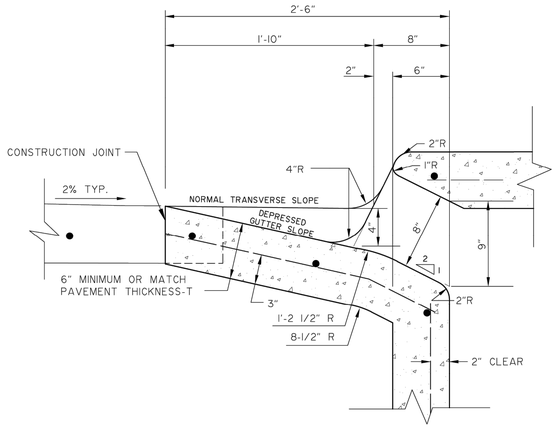
NOTES:
1. TOP OF INLET TO SLOPE 2% TOWARDS STREET.
2. TWO MANHOLES REQUIRED FOR 15' AND 20' INLETS IF THE INSIDE DEPTH IS LESS THAN 4 FEET.
3. CENTER SUPPORT BEAM REQUIRED FOR 15' AND 20' STANDARD CURB INLETS.
4. #4 BARS DOWELLED INTO INLET ON 18" CENTERS WHERE SIDEWALK IS ADJACENT TO INLET.
5. ADDITIONAL STEEL TO BE PLACED AROUND MANHOLE OPENING.

5 STANDARD CURB INLET PLAN
N.T.S.

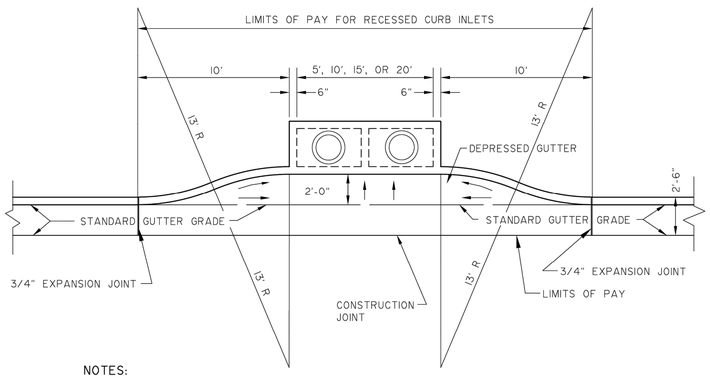


NOTE:
MANHOLE TO BE PLACED AT LOW END OF INLET. TWO MANHOLES ARE REQUIRED ON 15' AND 20' INLETS ONLY IF THE INSIDE HEIGHT OF THE INLET IS LESS THAN 4 FEET.

2 ELEVATION RECESSED AND STANDARD INLET
N.T.S.

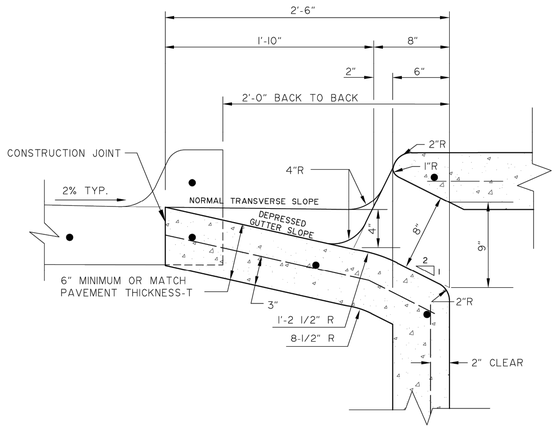


6 THROAT DETAIL FOR STANDARD INLETS ON CONCRETE STREETS
N.T.S.



NOTES:
1. TOP OF INLET TO SLOPE 2% TOWARDS STREET.
2. TWO MANHOLES REQUIRED FOR 15' AND 20' INLETS IF THE INSIDE DEPTH IS LESS THAN 4 FEET.
3. CENTER SUPPORT BEAM REQUIRED FOR 15' AND 20' STANDARD CURB INLETS.
4. #4 BARS DOWELLED INTO INLET ON 18" CENTERS WHERE SIDEWALK IS ADJACENT TO INLET.
5. ADDITIONAL STEEL TO BE PLACED AROUND MANHOLE OPENING.

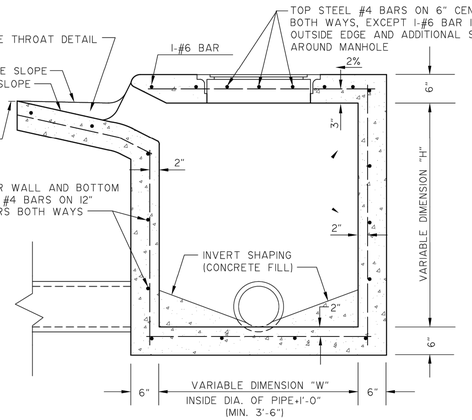
8 RECESSED CURB INLET PLAN
N.T.S.



9 THROAT DETAIL FOR RECESSED INLETS ON CONCRETE STREETS
N.T.S.

NOTE:
MANHOLE COVER AND FRAME SHALL BE EAST JORDAN IRON WORKS, INC. NO. 184L APT AND 184L ZPT. LOCAL SUPPLIER IS BASS & HAYS FOUNDRY, INC., GRAND PRAIRIE, TEXAS.

3 MANHOLE DETAIL
N.T.S.



NOTE:
TOP OF INLET TO SLOPE 2% TOWARDS STREET.

4 INLET SECTION FOR RECESSED AND STANDARD INLETS ON CONCRETE STREETS
N.T.S.

7 GENERAL NOTES

1. ALL CONCRETE SHALL BE CLASS "A" (5 BAGS OF CEMENT PER C.Y. & A MINIMUM COMPRESSIVE STRENGTH OF 3,000 P.S.I. AT 28 DAYS).
2. ALL REINFORCING STEEL SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A-615.
3. CHAMFER ALL EXPOSED CORNERS 3/4" EXCEPT WHERE OTHERWISE NOTED.
4. DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTERS OF BARS.
5. FIELD CUT AND BEND BARS AS NECESSARY TO ACCOMMODATE STORM SEWER PIPE.
6. ALL REINFORCING STEEL SHALL HAVE A MINIMUM COVER OF 2".
7. RECESSED CURB INLETS SHALL BE REQUIRED ON ALL ARTERIAL AND COLLECTOR STREETS.
8. ROCK FOUNDATION SHALL BE USED DURING PREFABRICATED INLET BOX INSTALLATION. 6" FOR BACKFILL WITH FLOWABLE FILL TO FILL VOIDS OR COMPACT WITH SELECT SURPLUS EXCAVATION COMPACTED IN 8" LIFTS TO 95% STANDARD PROCTOR DENSITY.
9. STANDARD INLETS SHALL BE ALLOWED ON RESIDENTIAL STREETS ONLY. RECESSED INLETS ARE REQUIRED ON ALL OTHER ROADWAYS.
10. STANDARD CURB INLET SIZES ARE 5', 10', 15', OR 20'. NO OTHER SIZES WILL BE ALLOWED WITHOUT APPROVAL FROM CITY ENGINEER.

NOTE: THIS IS SHT. SD-9 OF THE STANDARD CONSTRUCTION DETAILS, ORDINANCE NO. 2013-51 EFFECTIVE DATE: JANUARY 1, 2014

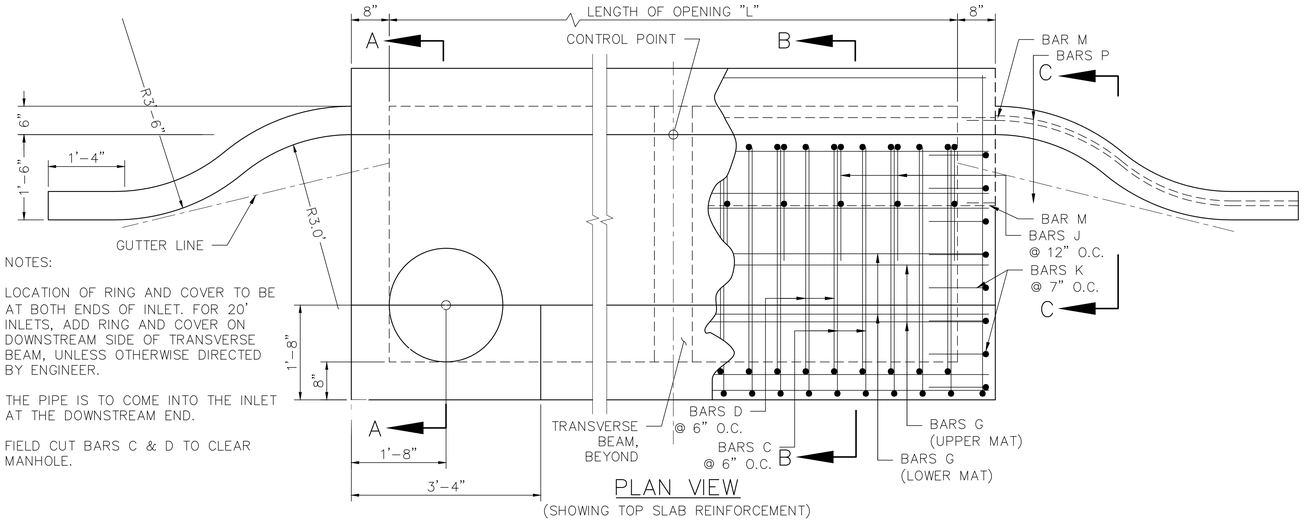
CITY OF MIDLOTHIAN, TEXAS
DEPARTMENT OF ENGINEERING, UTILITIES, AND PUBLIC WORKS

STANDARD CONSTRUCTION DETAILS STORM DRAINAGE

CURB INLET DETAILS

NO:	REVISION:	DATE:	SHEET:
			C3.65

Midlothian DFW's Southern Star



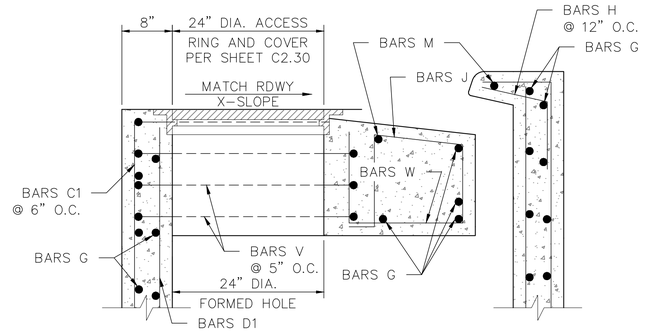
NOTES:

LOCATION OF RING AND COVER TO BE AT BOTH ENDS OF INLET. FOR 20' INLETS, ADD RING AND COVER ON DOWNSTREAM SIDE OF TRANSVERSE BEAM, UNLESS OTHERWISE DIRECTED BY ENGINEER.

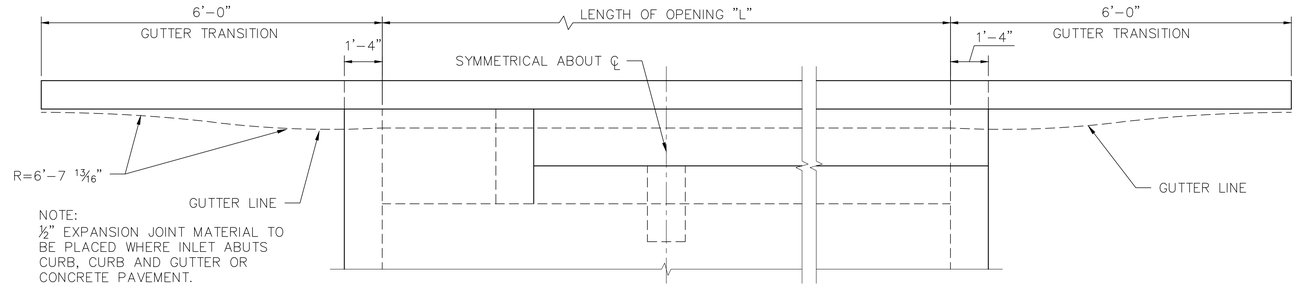
THE PIPE IS TO COME INTO THE INLET AT THE DOWNSTREAM END.

FIELD CUT BARS C & D TO CLEAR MANHOLE.

PLAN VIEW
(SHOWING TOP SLAB REINFORCEMENT)



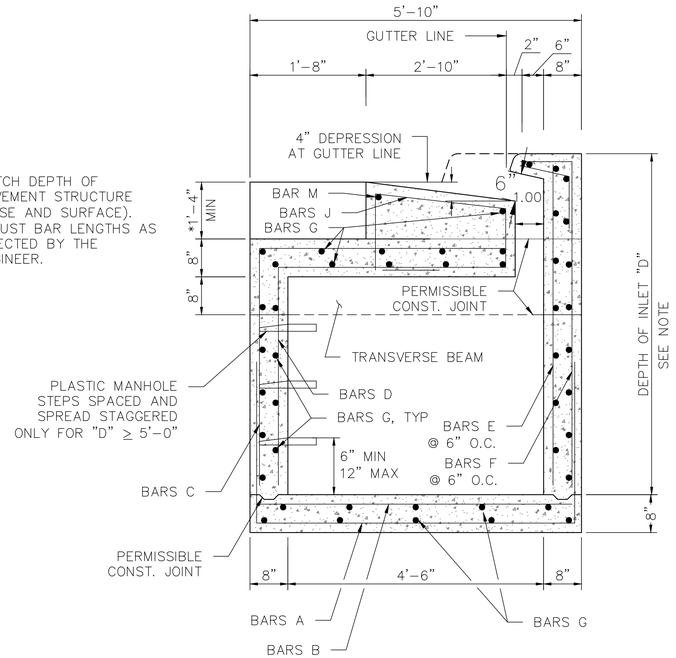
SECTION A



NOTE:
½" EXPANSION JOINT MATERIAL TO BE PLACED WHERE INLET ABUTS CURB, CURB AND GUTTER OR CONCRETE PAVEMENT.

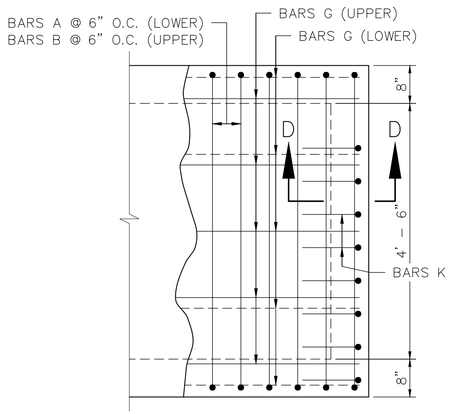
FRONT ELEVATION VIEW

* MATCH DEPTH OF PAVEMENT STRUCTURE (BASE AND SURFACE). ADJUST BAR LENGTHS AS DIRECTED BY THE ENGINEER.

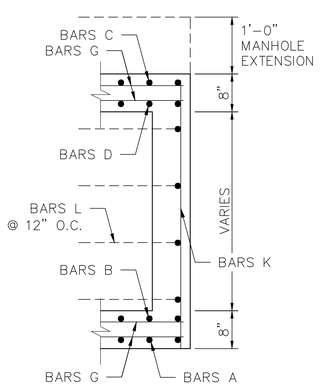


SECTION B

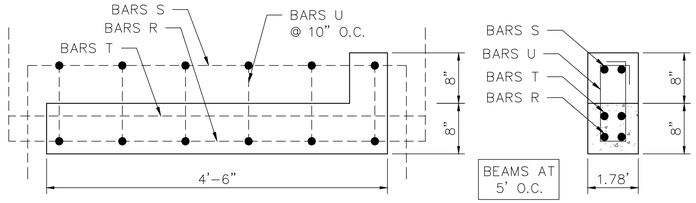
NOTE:
INLET DEPTH SHALL BE SHOWN ON STORM DRAIN PLAN & PROFILE SHEETS.



PARTIAL PLAN VIEW
(SHOWING BOTTOM SLAB REINFORCEMENT)



SECTION D



TRANSVERSE BEAM DETAIL
(FOR 15' AND 20' INLETS)

NOTE: THIS IS A SPECIAL CONSTRUCTION DETAIL DRAFTED BY KIMLEY-HORN, FEBRUARY 2016

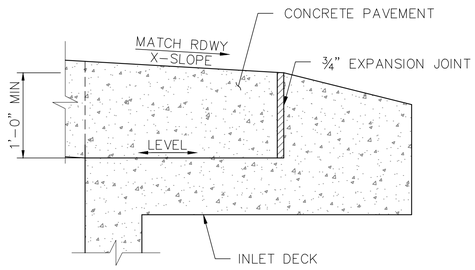
CITY OF MIDLOTHIAN, TEXAS
DEPARTMENT OF ENGINEERING, UTILITIES, AND PUBLIC WORKS

STANDARD CONSTRUCTION DETAILS
STORM DRAINAGE

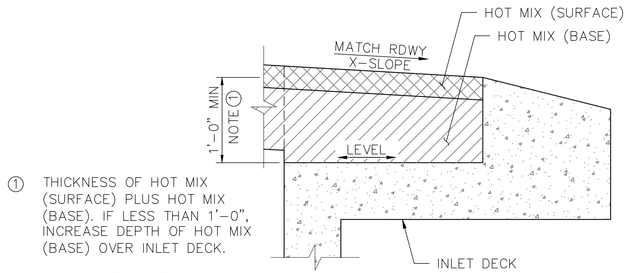
TYPE II RECESSED CURB INLET (SHEET 1 OF 2)

NO:	REVISION:	DATE:	SHEET:
			C3.66

Midlothian
DFW's Southern Star



INLET ADJACENT TO CONCRETE PAVEMENT

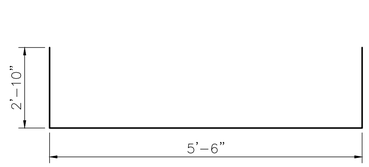


① THICKNESS OF HOT MIX (SURFACE) PLUS HOT MIX (BASE). IF LESS THAN 1'-0", INCREASE DEPTH OF HOT MIX (BASE) OVER INLET DECK.

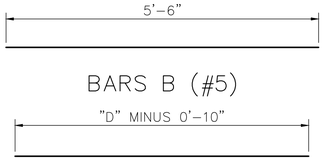
MAXIMUM THICKNESS = 1'-6"

DO NOT PLACE LESS THAN 4" OF BASE.

INLET ADJACENT TO HOT MIX PAVEMENT

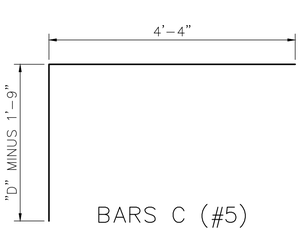


BARS A (#5)

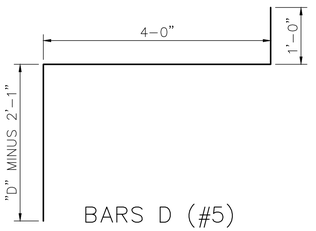


BARS B (#5)

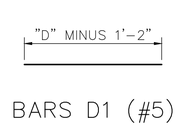
BARS C1 (#5)



BARS C (#5)

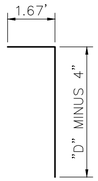


BARS D (#5)



BARS D1 (#5)

BARS E (#5)

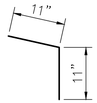


BARS F (#5)

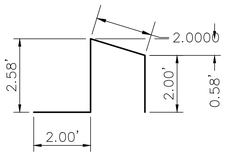
BARS G (#4)

BAR G SPACING:

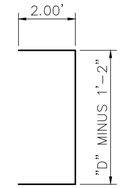
BOTTOM SLAB, LOWER MAT – 1'-4"
BOTTOM SLAB, UPPER MAT – 1'-2"
BACK WALL, OUTER MAT – 0'-9"
BACK WALL, INNER MAT – 0'-10"
FRONT WALL, OUTER MAT – 0'-9"
FRONT WALL, INNER MAT – 0'-10"
UPPER SLAB, LOWER MAT – 1'-0"
UPPER SLAB, UPPER MAT – 1'-0¾"
GUTTER – PLACE AS SHOWN



BARS H (#4)

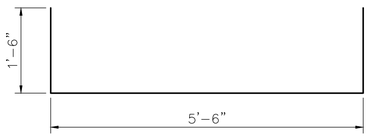


BARS J (#4)



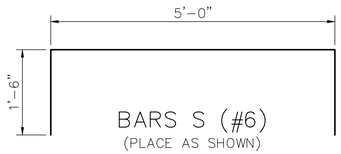
BARS K (#4)

BARS L (#4)

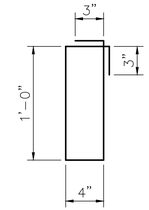


BARS R (#6)
(PLACE AS SHOWN)

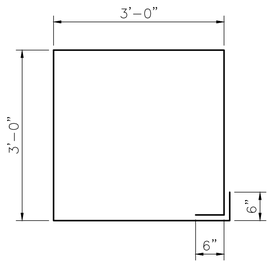
BARS M (#4)
(PLACE AS SHOWN)



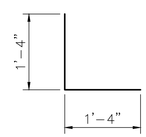
BARS S (#6)
(PLACE AS SHOWN)



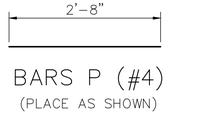
BARS U (#4)



BARS V (#4)



BARS W (#4)
6 EACH TO BE PLACED AT 16" SPACING ALONG GUTTER SIDE AND INLET SIDE OF RING. (3 EACH SIDE)



BARS P (#4)
(PLACE AS SHOWN)

BARS T (#6)
(PLACE AS SHOWN)

NOTES:
1. ALL CONCRETE SHALL BE CLASS "A" (5 BAGS OF CEMENT PER C.Y. & A MINIMUM OF 3,000 P.S.I. AT 28 DAYS).
2. ALL REINFORCING STEEL SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A-615.
3. CHAMFER ALL EXPOSED CORNERS ¾" EXCEPT WHERE OTHERWISE NOTED.
4. DIMENSIONS RELATING TO REINFORCING STEEL ARE TO CENTERS OF BARS.
5. FIELD CUT AND BEND BARS AS NECESSARY TO ACCOMMODATE STORM SEWER PIPE.
6. ALL REINFORCING STEEL SHALL HAVE A MINIMUM COVER OF 2".
7. ROCK FOUNDATION SHALL BE USED DURING PREFABRICATED INLET BOX INSTALLATION. 6" FOR BACKFILL WITH FLOWABLE FILL. TO FILL VOIDS OR COMPACT WITH SELECT SURPLUS EXCAVATION COMPACTED IN 8" LIFTS TO 95% STANDARD PROCTOR DENSITY.
8. STANDARD CURB INLET SIZES ARE 5', 10', 15' OR 20'. NO OTHER SIZES WILL BE ALLOWED WITHOUT APPROVAL FROM CITY ENGINEER.

NOTE: THIS IS A SPECIAL CONSTRUCTION DETAIL DRAFTED BY KIMLEY-HORN, FEBRUARY 2016

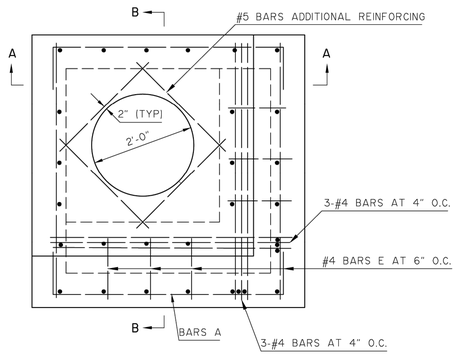
CITY OF MIDLOTHIAN, TEXAS
DEPARTMENT OF ENGINEERING, UTILITIES, AND PUBLIC WORKS

STANDARD CONSTRUCTION DETAILS STORM DRAINAGE

TYPE II RECESSED CURB INLET (SHEET 2 OF 2)

NO:	REVISION:	DATE:	SHEET:
			C3.67

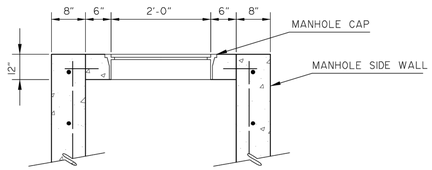
Midlothian
DFW's Southern Star



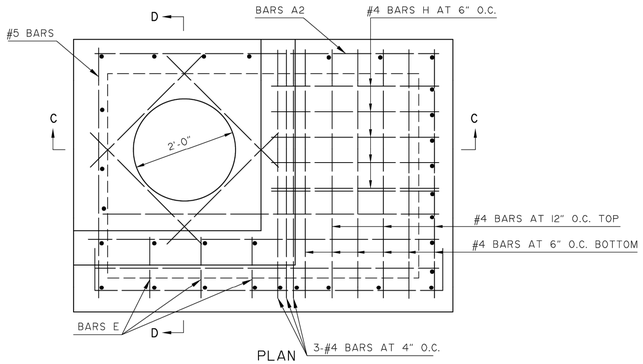
PLAN

NOTES:

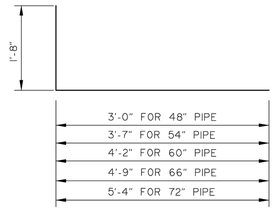
1. 2-#4 BARS TO EXTEND INTO MANHOLE CAP 4" AND SIDE WALL 6" PER SECTION (3" COVER BETWEEN BARS AND BETWEEN EDGE OF CONCRETE.) THESE BARS ARE TO BE SPACED ON 6" O.C. AROUND ENTIRE MANHOLE RING AND COVER.
2. STAGE II CONSTRUCTION OF THE MANHOLES WILL NOT BE BUILT UNTIL PAVEMENT PREPARATIONS ARE COMPLETE.



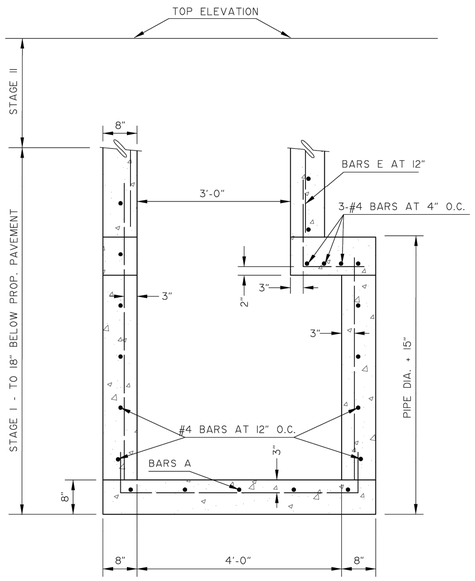
TOP DETAIL



PLAN

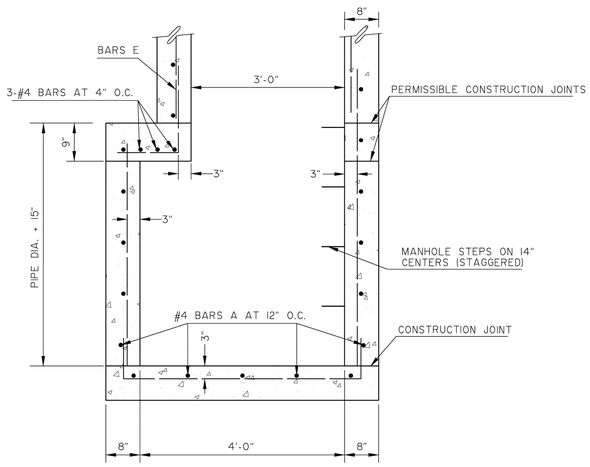


BARS H

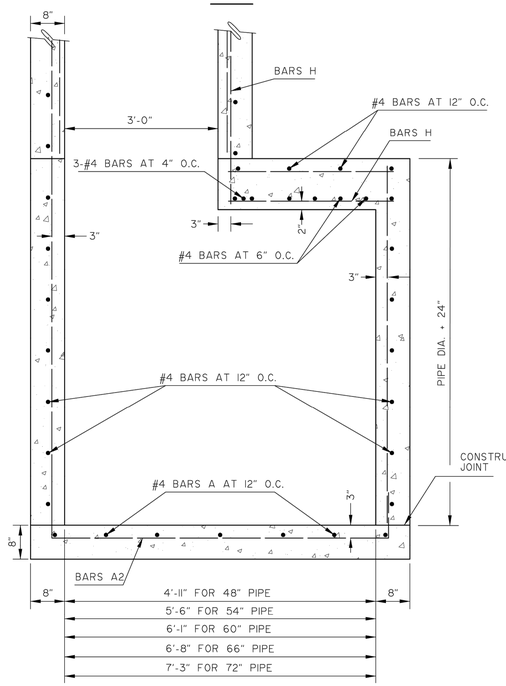


SECTION A-A

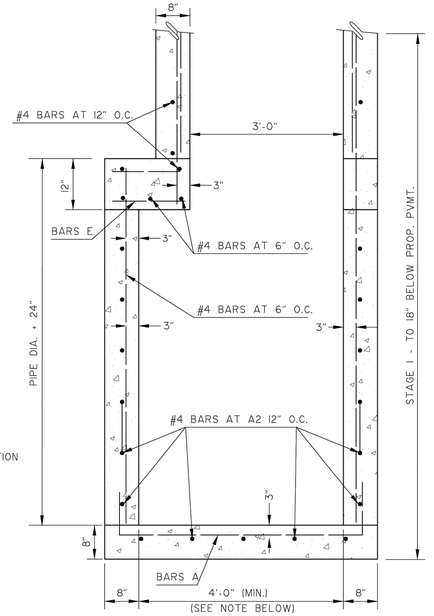
NOTE:
FOR PIPES 36" AND UNDER, 48" DIAMETER CIRCULAR MANHOLES MAY BE SUBSTITUTED.



SECTION B-B



SECTION C-C



SECTION D-D

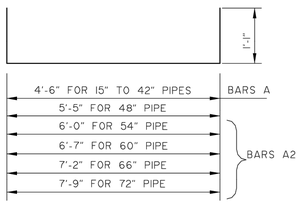
NOTE:
IF STORM PIPE ENTERS MANHOLE IN SECTION D-D, 4-0" DIAMETER TO BE VARIED BASED ON SECTION C-C.

1 TYPE "A" JUNCTION BOX

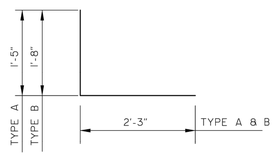
FOR 18" THRU 42" PIPES

2 TYPE "B" JUNCTION BOX

FOR 48" THRU 72" PIPES



BARS A & A2



BARS E

3 GENERAL NOTES:

1. A TEMPORARY WOOD COVER SHALL BE INSTALLED AFTER STAGE I IS COMPLETED AND WILL REMAIN IN PLACE UNTIL STAGE II IS BEGUN. STAGE II WILL NOT BE BUILT UNTIL APPROVED BY THE CITY ENGINEER.
2. APPROVAL WILL NOT BE NORMALLY GIVEN UNTIL THE SHOULDER BASE HAS BEEN COMPACTED.
3. FIELD BEND OR CUT BARS AS REQUIRED TO ACCOMMODATE STORM PIPES.
4. DIMENSION RELATING TO REINFORCING STEEL ARE TO CENTERS OF BARS.
5. ADJUST LENGTH OF VERTICAL STEEL AS REQUIRED BY THE FLOW LINE CONSTRUCTION JOINT, TO PROVIDE A 20 DIAMETER LAP.
6. CHAMFER ALL EXPOSED CORNERS 3/4" EXCEPT WHERE OTHERWISE NOTED.
7. INVERTS WILL BE SHAPED WITH GROUT TO CONFORM TO THE SHAPE OF THE PIPES, BUT QUANTITIES USED SHALL NOT BE MEASURED FOR PAYMENT.
8. ALL CONCRETE SHALL BE CLASS "A, 3000 P.S.I. MINIMUM.
9. LOCATION GIVEN IN PLANS IS TO CENTROID OF BOTTOM STRUCTURE.
10. SEE CURB INLET DETAILS FOR MANHOLE RING AND COVER DETAILS.

NOTE: THIS IS SHT. SD-10 OF THE STANDARD CONSTRUCTION DETAILS, ORDINANCE NO. 2013-51 EFFECTIVE DATE: JANUARY 1, 2014

CITY OF MIDLOTHIAN, TEXAS
DEPARTMENT OF ENGINEERING, UTILITIES, AND PUBLIC WORKS

STANDARD CONSTRUCTION DETAILS STORM DRAINAGE

JUNCTION BOX DETAILS

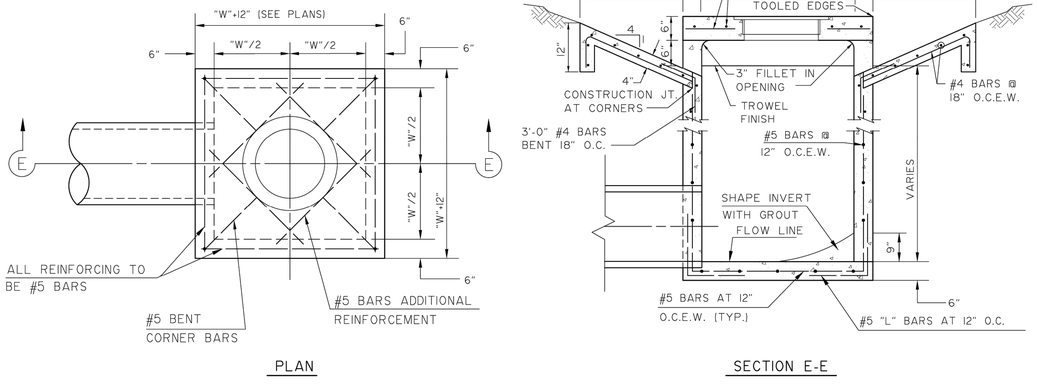
NO:	REVISION:	DATE:	SHEET:
			C3.68

Midlothian DFW's Southern Star

GENERAL NOTES

1. ALL REINFORCING STEEL SHALL BE NEW BILLET STEEL CONFORMING TO ASTM A-615.
2. ALL CONCRETE SHALL BE CLASS "A" (5 BAGS OF CEMENT PER C.Y. & A MINIMUM COMPRESSIVE STRENGTH OF 3000 P.S.I. AT 28 DAYS). ALL CORNERS SHALL BE CHAMFERED 3/4".
3. ALL REINFORCING STEEL SHALL HAVE A MINIMUM COVER OF 2".
4. SEE CURB INLET DETAIL SHEET FOR MANHOLE RING AND COVER DETAILS.
5. ALL STORM SEWERS WITHIN THE EAGLE FORD GROUP SHALL BE LOCATED OUTSIDE OF PAVEMENT IN ACCORDANCE WITH THE REQUIREMENTS CONTAINED IN THE SPECIAL DESIGN AND CONSTRUCTION STANDARDS FOR THE EAGLE FORD GROUP.
6. EMBEDMENT AND BACKFILL OF STORM SEWERS WITHIN THE EAGLE FORD GROUP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS CONTAINED IN THE SPECIAL DESIGN AND CONSTRUCTION STANDARDS FOR THE EAGLE FORD GROUP.

INLET SIZE	W	A
2' SQUARE	2'-0"	2'-0"
4' SQUARE	4'-0"	3'-0"
5' SQUARE	5'-0"	4'-0"
6' SQUARE	6'-0"	4'-0"

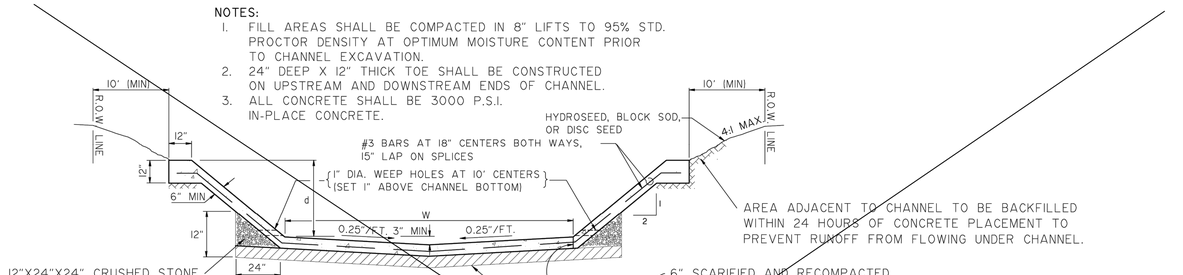


PLAN

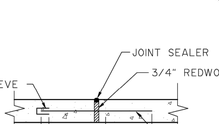
SECTION E-E

1 STANDARD TYPE WYE INLET
N.T.S.

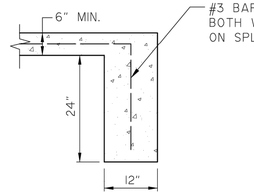
NOTES:
1. FILL AREAS SHALL BE COMPACTED IN 8" LIFTS TO 95% STD. PROCTOR DENSITY AT OPTIMUM MOISTURE CONTENT PRIOR TO CHANNEL EXCAVATION.
2. 24" DEEP X 12" THICK TOE SHALL BE CONSTRUCTED ON UPSTREAM AND DOWNSTREAM ENDS OF CHANNEL.
3. ALL CONCRETE SHALL BE 3000 P.S.I. IN-PLACE CONCRETE.



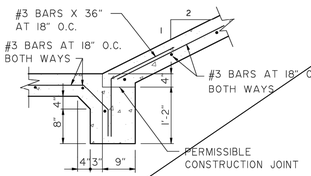
TYPICAL SECTION
N.T.S.



CONSTRUCTION JOINT
N.T.S.



CONCRETE TOE DETAIL
N.T.S.

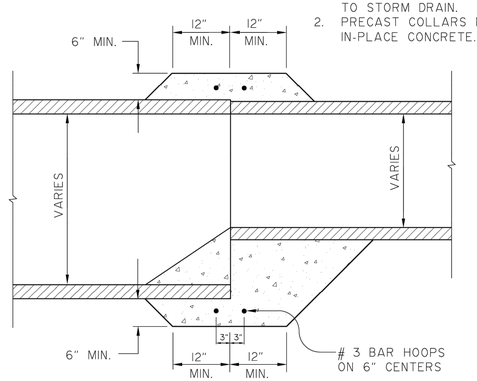


ALTERNATE CONSTRUCTION JOINT
N.T.S.

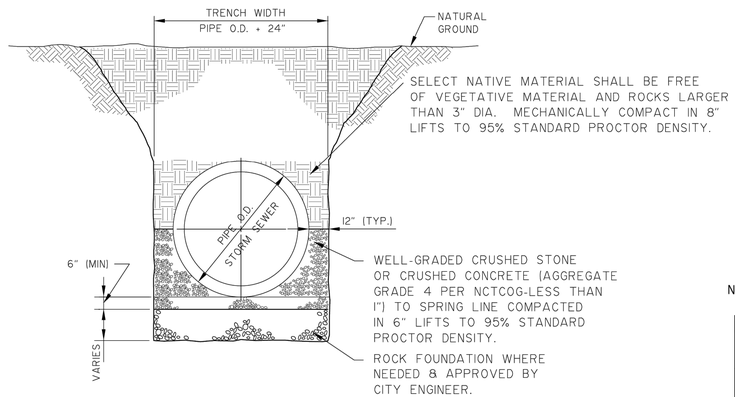
TRANSVERSE EXPANSION JOINT
SPACE 100' O.C. AND USE AT ENDS OF CURVES - P.C. AND P.T.
N.T.S.

2 REINFORCED CONCRETE LINED CHANNEL

NOTES:
1. CONCRETE COLLAR WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE CONSIDERED SUBSIDIARY TO STORM DRAIN.
2. PRECAST COLLARS MAY BE USED IN LIEU OF IN-PLACE CONCRETE.



3 PIPE COLLAR DETAIL
N.T.S.



RIGID PIPE TRENCHING, EMBEDMENT, AND BACKFILL DETAIL
N.T.S.

NOTE: THIS IS SHT. SD-11 OF THE STANDARD CONSTRUCTION DETAILS, ORDINANCE NO. 2013-51 EFFECTIVE DATE: JANUARY 1, 2014

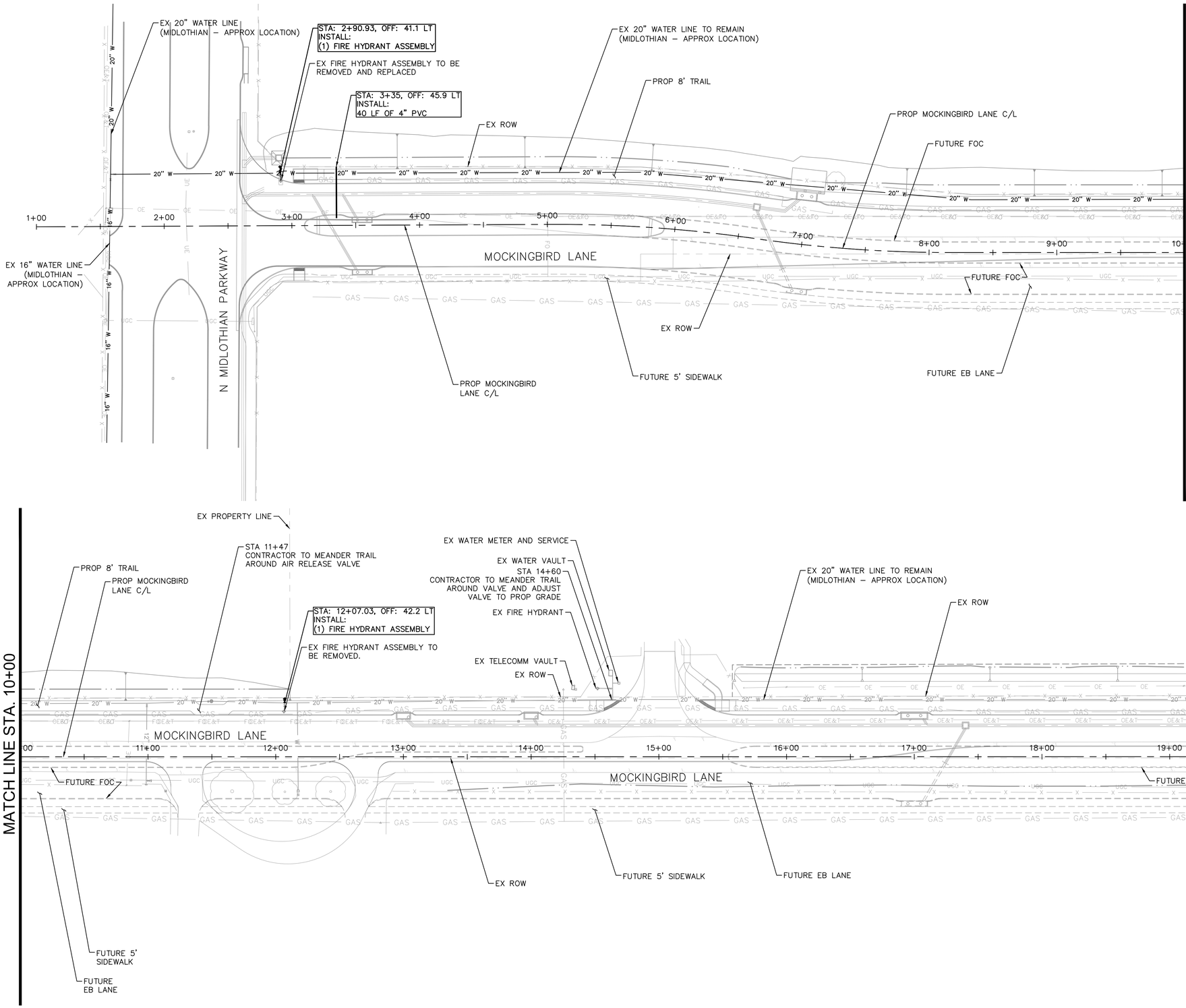
CITY OF MIDLOTHIAN, TEXAS
DEPARTMENT OF ENGINEERING, UTILITIES, AND PUBLIC WORKS

STANDARD CONSTRUCTION DETAILS
STORM DRAINAGE

WYE INLET, CONCRETE CHANNEL, & RIGID PIPE DETAILS

NO:	REVISION:	DATE:	SHEET:
			C3.69

Midlothian
DFW's Southern Star



GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

NOTES:
1. FIRE HYDRANTS, METER BOXES, MANHOLES, VALVES, ETC. SHALL BE SET TO FINAL GRADES.
2. 4" CONDUIT IS INTENDED FOR FUTURE IRRIGATION. CONDUIT SHALL BE SDR 26 CAPPED AT BOTH ENDS.
3. WATER LINE LOWERING'S SHALL BE COORDINATED WITH CITY STAFF PRIOR TO CONSTRUCTION. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
4. PLANS INDICATED WATER LINE AND APPURTENANCES HAVE BEEN RELOCATED BY OTHERS (SARDIS). HOWEVER, THE INFRASTRUCTURE STILL MAY BE IN CONFLICT AND NEED TO BE REMOVED BY THE CONTRACTOR (REMOVALS). THIS INFRASTRUCTURE IS NOT IN SERVICE.

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

WATER PLAN - (SHEET 1 OF 6)

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C4.01

Plotted, By: 2026-08-21 11:47:49, Holland, Lindsey
Last Saved: 2026-08-21 09:37:37 (WATER PLAN – (SHEET 1 OF 6))
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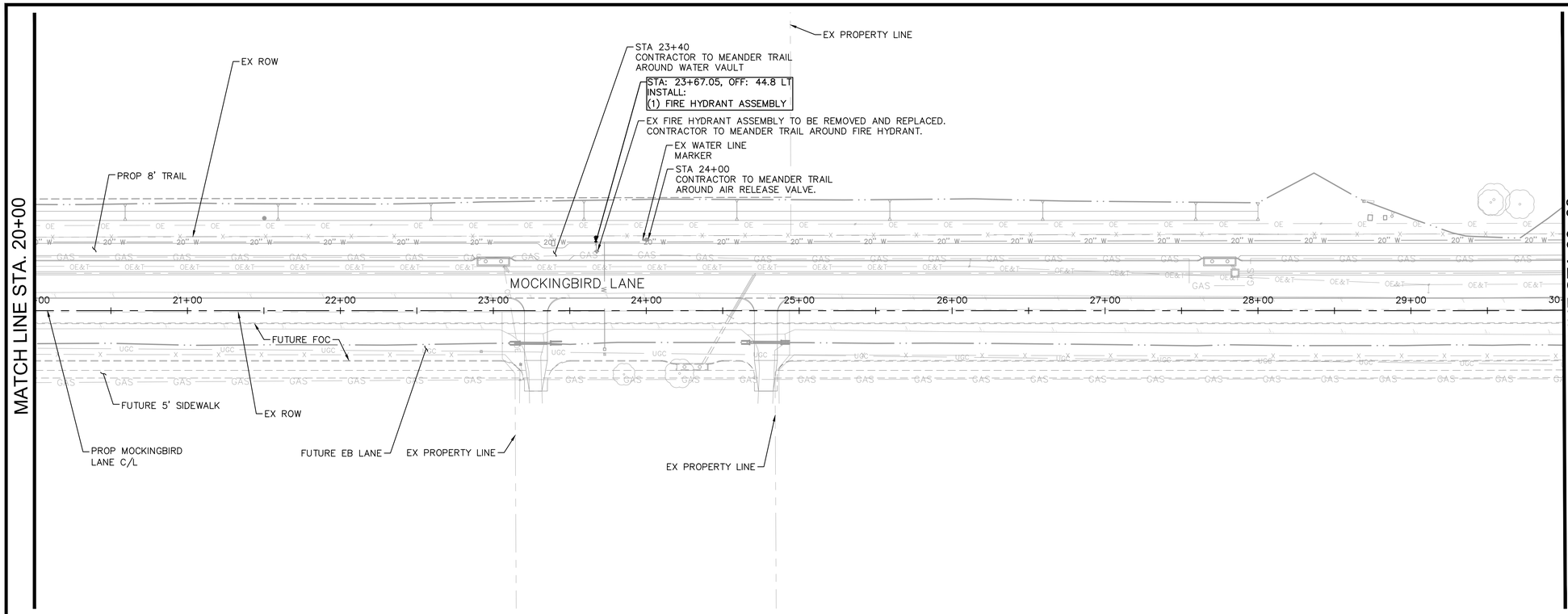

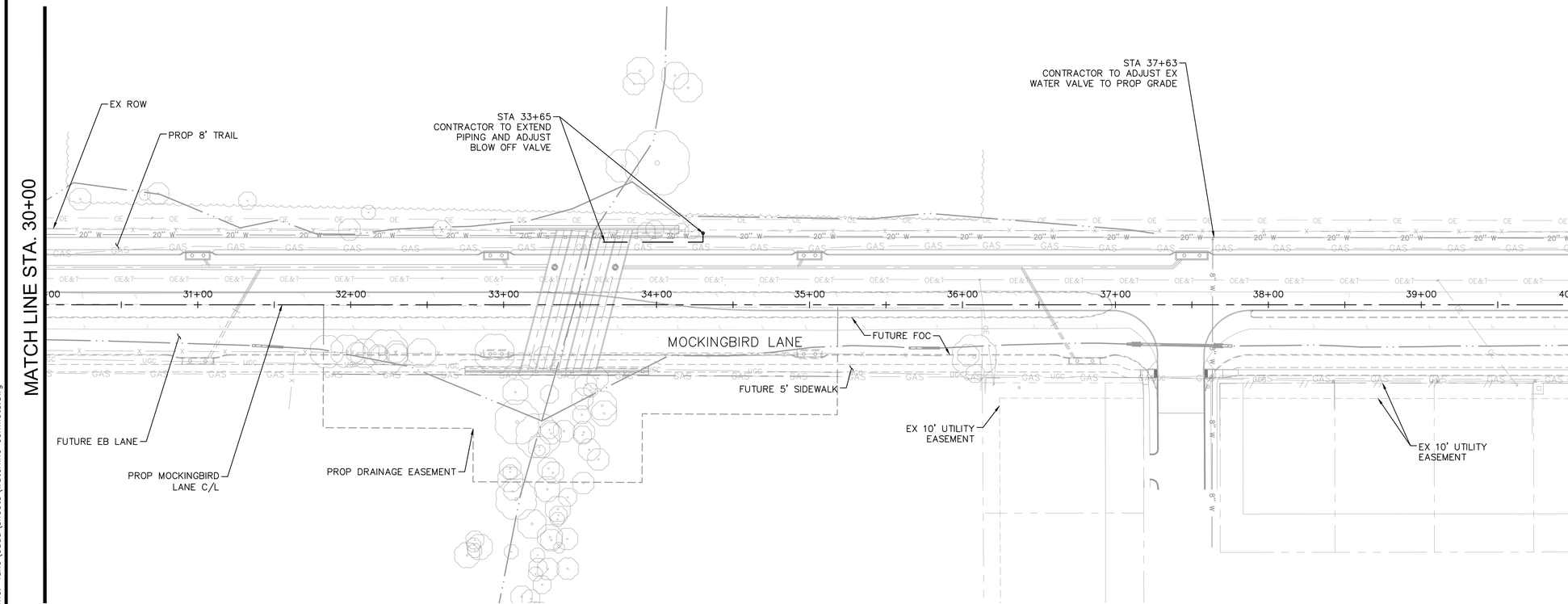

GRAPHIC SCALE

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ORIGINAL PLOTTED SCALE:
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NOTES:

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2. 4" CONDUIT IS INTENDED FOR FUTURE IRRIGATION. CONDUIT SHALL BE SDR 26 CAPPED AT BOTH ENDS.
3. WATER LINE LOWERING'S SHALL BE COORDINATED WITH CITY STAFF PRIOR TO CONSTRUCTION. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
4. PLANS INDICATED WATER LINE AND APPURTENANCES HAVE BEEN RELOCATED BY OTHERS (SARDIS). HOWEVER, THE INFRASTRUCTURE STILL MAY BE IN CONFLICT AND NEED TO BE REMOVED BY THE CONTRACTOR (REMOVALS). THIS INFRASTRUCTURE IS NOT IN SERVICE.

Kimley»Horn
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No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

WATER PLAN -
(SHEET 2 OF 6)

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C4.02

Plotted, By: 2026-08-21 11:48:00, Holland, Lindsey
Last Saved: 2026-08-21 09:37:37 (WATER PLAN – (SHEET 2 OF 6))
k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\waterline conflicts.dwg
Filename: lane\cadd\sheets\waterline conflicts.dwg

MATCH LINE STA. 40+00

PROP 8' TRAIL

EX ROW

PROP MOCKINGBIRD LANE C/L

STA: 42+00, OFF: 47.4 LT
INSTALL:
55 LF OF 4" PVC

STA 44+07
CONTRACTOR TO ADJUST EX WATER VALVE TO PROP GRADE

STA 47+80
CONTRACTOR TO MEANDER TRAIL AROUND WATER VAULT

STA: 49+00, OFF: 45.6 LT
INSTALL:
55 LF OF 4" PVC

MATCH LINE STA.51+50

MOCKINGBIRD LANE

EX 10' UTILITY EASEMENT

CONTRACTOR TO ADJUST EX WATER VALVES TO PROP GRADE

NOTES:
1. FIRE HYDRANTS, METER BOXES, MANHOLES, VALVES, ETC. SHALL BE SET TO FINAL GRADES.
2. 4" CONDUIT IS INTENDED FOR FUTURE IRRIGATION. CONDUIT SHALL BE SDR 26 CAPPED AT BOTH ENDS.
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4. PLANS INDICATED WATER LINE AND APPURTENANCES HAVE BEEN RELOCATED BY OTHERS (SARDIS). HOWEVER, THE INFRASTRUCTURE STILL MAY BE IN CONFLICT AND NEED TO BE REMOVED BY THE CONTRACTOR (REMOVALS). THIS INFRASTRUCTURE IS NOT IN SERVICE.

MATCH LINE STA. 51+50

EX PROPERTY LINE

STA: 56+46.87, OFF: 40.4 LT
INSTALL:
95 LF OF 16" WATER LINE
(3) 16" BUTTERFLY VALVE
(1) 16" TEE
(2) 16" 45° BEND
(1) 16" PLUG

CONTRACTOR TO AVOID EX 20" WATER LINE

EX 4" WATER LINE TO BE RELOCATED (BY OTHERS)

PROP 12" WATER LINE BY OTHERS (SARDIS)

STA 57+72
EX WATER VALVE TO BE ADJUSTED TO PROP GRADE

STA 57+76
CONTRACTOR TO AVOID EX WATER VAULT

STA: 55+89.62, OFF: 42.1 LT
INSTALL:
(1) FIRE HYDRANT ASSEMBLY

EX FIRE HYDRANT ASSEMBLY TO BE REMOVED AND REPLACED. CONTRACTOR TO MEANDER TRAIL AROUND FIRE HYDRANT.

PROP MOCKINGBIRD LANE C/L

EX ROW

PROP 8' TRAIL

MOCKINGBIRD LANE

ONWARD ROAD

STA: 56+42.84, OFF: 54.0 RT
INSTALL:
(1) 20" PLUG

STA 57+13
CONTRACTOR TO LOWER EX 12" WATER LINE UNDER PROP STORM DRAIN LINE (MIN 2' SEPARATION)

EX 12" WATER LINE TO REMAIN (MIDLOTHIAN – APPROX LOCATION)

STA 57+69
CONTRACTOR TO ADJUST EX WATER VALVES TO PROP GRADE

EX ROW

PROP 5' SIDEWALK

MATCH LINE STA.60+00

GRAPHIC SCALE
20 0 10 20 40
ORIGINAL PLOTTED SCALE: 1 inch = 20 ft.
IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 40 FT

PROPOSED 20" WATER LINE

SCALE: 1" = 20' HORIZONTAL
1" = 4' VERTICAL

4.00 LF OF 20" PVC
STA: 56+46.71
INSTALL:
(1) 45° VERTICAL BEND

7.09 LF OF 20" PVC

PROP GROUND

EX GROUND

STA: 56+46.43
INSTALL:
(1) 45° VERTICAL BEND
PROP STORM

!!!CAUTION!!!
EX GAS LINE

EX GAS LINE TO BE RELOCATED BY OTHERS

STA: 56+42.84
INSTALL:
(1) 20" PLUG

83.34 LF OF 20" PVC

775 770 765 760 755 750 745

1+00 2+00

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

WATER PLAN -
(SHEET 3 OF 6)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C4.03

Plotted By: 2026-08-21 11:48:15, Holland, Lindsey
Last Saved: 2026-08-21 09:37:37 (WATER PLAN – (SHEET 3 OF 6))
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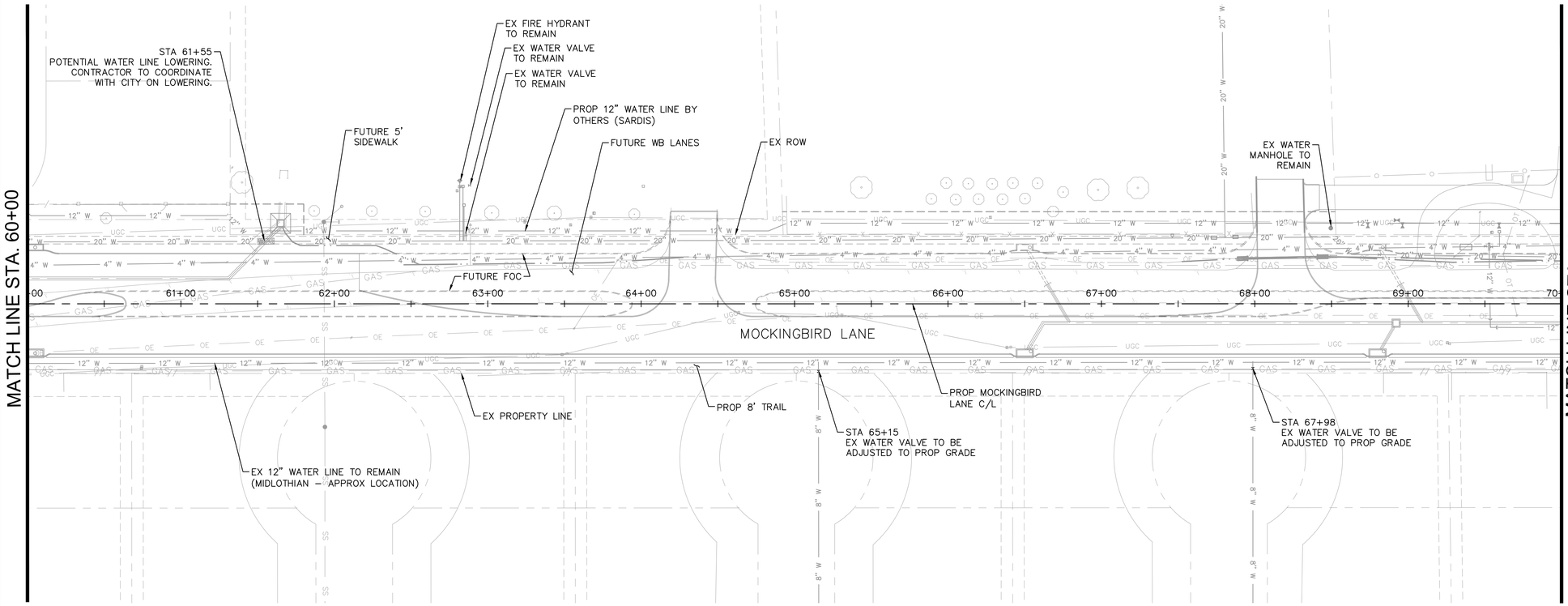

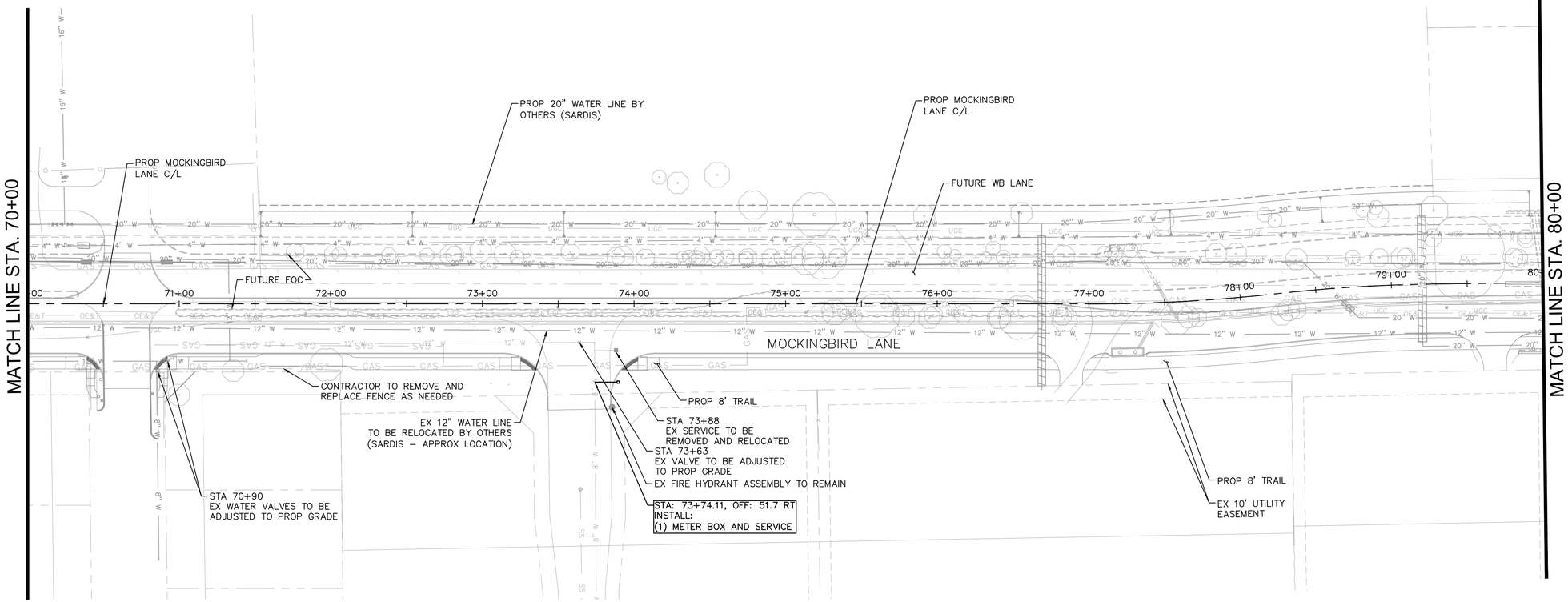

GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

NOTES:
1. FIRE HYDRANTS, METER BOXES, MANHOLES, VALVES, ETC. SHALL BE SET TO FINAL GRADES.
2. 4" CONDUIT IS INTENDED FOR FUTURE IRRIGATION. CONDUIT SHALL BE SDR 26 CAPPED AT BOTH ENDS.
3. WATER LINE LOWERING'S SHALL BE COORDINATED WITH CITY STAFF PRIOR TO CONSTRUCTION. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
4. PLANS INDICATED WATER LINE AND APPURTENANCES HAVE BEEN RELOCATED BY OTHERS (SARDIS). HOWEVER, THE INFRASTRUCTURE STILL MAY BE IN CONFLICT AND NEED TO BE REMOVED BY THE CONTRACTOR (REMOVALS). THIS INFRASTRUCTURE IS NOT IN SERVICE.

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER
8/21/2026

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

WATER PLAN -
(SHEET 4 OF 6)

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C4.04

Plotted, By: 2026-08-21 11:48:25, Holland, Lindsey
Last Saved: 2026-08-21 09:37:37 (WATER PLAN – (SHEET 4 OF 6))
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Filename: lane\cadd\sheets\waterline conflicts.dwg

MATCH LINE STA. 80+00

EX ROW
FUTURE WB LANE
EX 10' UTILITY EASEMENT
EX 10' UTILITY EASEMENT
PROP MOCKINGBIRD LANE C/L
FUTURE WB LANE
FUTURE 5' SIDEWALK
FUTURE 5' SIDEWALK
FUTURE FOC
81+00
82+00
83+00
84+00
85+00
86+00
87+00
88+00
89+00
MOCKINGBIRD LANE
EX ROW
STA: 82+74.60, OFF: 27.3 RT
INSTALL:
(1) METER BOX AND SERVICE
CONTRACTOR TO REMOVE AND RELOCATE METER BOX
STA 83+20
CONTRACTOR TO ADJUST WATER MANHOLE LID TO PROP GRADE
PROP ROW
EX 10' UTILITY EASEMENT
PROP 20" WATER LINE BY OTHERS (SARDIS)
BLUEBIRD LANE
STA: 85+51.13, OFF: 35.4 RT
INSTALL:
(1) FIRE HYDRANT ASSEMBLY
EX FIRE HYDRANT ASSEMBLY TO BE REMOVED AND REPLACED
EX FIRE HYDRANT ASSEMBLY TO BE REMOVED AND REPLACED. CONTRACTOR TO MEANDER TRAIL AROUND FIRE HYDRANT.
EX FIRE HYDRANT ASSEMBLY TO REMAIN
STA 85+05
EX 8" WATER VALVES TO BE ADJUSTED TO GRADE
STA: 85+06.02, OFF: 49.5 RT
INSTALL:
(1) METER BOX AND SERVICE
EX 20' UTILITY EASEMENT
EX 20' UTILITY EASEMENT
PROP 8' TRAIL
CONTRACTOR TO ADJUST EX WATER METER TO PROP GRADE (SUBSIDIARY)

MATCH LINE STA. 90+00

GRAPHIC SCALE
20 0 10 20 40
ORIGINAL PLOTTED SCALE: 1 inch = 20 ft.
IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 40 FT

NOTES:
1. FIRE HYDRANTS, METER BOXES, MANHOLES, VALVES, ETC. SHALL BE SET TO FINAL GRADES.
2. 4" CONDUIT IS INTENDED FOR FUTURE IRRIGATION. CONDUIT SHALL BE SDR 26 CAPPED AT BOTH ENDS.
3. WATER LINE LOWERING'S SHALL BE COORDINATED WITH CITY STAFF PRIOR TO CONSTRUCTION. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
4. PLANS INDICATED WATER LINE AND APPURTENANCES HAVE BEEN RELOCATED BY OTHERS (SARDIS). HOWEVER, THE INFRASTRUCTURE STILL MAY BE IN CONFLICT AND NEED TO BE REMOVED BY THE CONTRACTOR (REMOVALS). THIS INFRASTRUCTURE IS NOT IN SERVICE.

MATCH LINE STA. 90+00

PROP MOCKINGBIRD LANE C/L
EX 10' UTILITY EASEMENT
EX 10' UTILITY EASEMENT
DROVER DRIVE
EX ROW
EX 4" WATER LINE TO BE RELOCATED BY OTHERS (SARDIS – APPROX LOCATION)
FUTURE 5' SIDEWALK
PROP MOCKINGBIRD LANE C/L
FUTURE WB LANE
FUTURE FOC
91+00
92+00
93+00
94+00
95+00
96+00
97+00
98+00
99+00
100
MOCKINGBIRD LANE
PROP 8' TRAIL
EX 10' UTILITY EASEMENT
STA: 90+76.71, OFF: 16.3 RT
INSTALL:
(1) FIRE HYDRANT ASSEMBLY
EX FIRE HYDRANT ASSEMBLY TO BE REMOVED AND REPLACED. CONTRACTOR TO MEANDER TRAIL AROUND FIRE HYDRANT.
EX WATER METER TO BE ADJUSTED TO PROP GRADE (SUBSIDIARY)
PROP 20" WATER LINE BY OTHERS (SARDIS)
STA: 94+44.57, OFF: 14.0 RT
INSTALL:
(1) METER BOX AND SERVICE
EX WATER METER TO BE REMOVED AND RELOCATED
PROP 8' TRAIL
EX 10' UTILITY EASEMENT
PROP 8' TRAIL

MATCH LINE STA. 100+00

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

WATER PLAN -
(SHEET 5 OF 6)

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER
C4.05

Plotted, By: 2026-08-21 11:48:36, Holland, Lindsey
Last Saved: 2026-08-21 09:37:37 (WATER PLAN – (SHEET 5 OF 6))
k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\waterline conflicts.dwg
Filename: lane\cadd\sheets\waterline conflicts.dwg

NOTES:
1. FIRE HYDRANTS, METER BOXES, MANHOLES, VALVES, ETC. SHALL BE SET TO FINAL GRADES.
2. 4" CONDUIT IS INTENDED FOR FUTURE IRRIGATION. CONDUIT SHALL BE SDR 26 CAPPED AT BOTH ENDS.
3. WATER LINE LOWERING'S SHALL BE COORDINATED WITH CITY STAFF PRIOR TO CONSTRUCTION. CONTRACTOR TO NOTIFY ENGINEER OF ANY DISCREPANCIES PRIOR TO CONSTRUCTION.
4. PLANS INDICATED WATER LINE AND APPURTENANCES HAVE BEEN RELOCATED BY OTHERS (SARDIS). HOWEVER, THE INFRASTRUCTURE STILL MAY BE IN CONFLICT AND NEED TO BE REMOVED BY THE CONTRACTOR (REMOVALS). THIS INFRASTRUCTURE IS NOT IN SERVICE.

GRAPHIC SCALE
20 0 10 20 40
ORIGINAL PLOTTED SCALE: 1 inch = 20 ft.
IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 40 FT

MATCH LINE STA. 100+00

FUTURE FOC
FUTURE WB LANE
PROP MOCKINGBIRD LANE C/L
FUTURE 5' SIDEWALK
MOCKINGBIRD LANE
EX ROW
PROP MOCKINGBIRD LANE C/L
101+00 102+00 103+00 104+00 105+00 106+00 107+00 108+00 109+00 110+00 110+50
PROP ROW
CONTRACTOR TO AVOID EX 20" WATER LINE
PROP 20" WATER LINE BY OTHERS (SARDIS)
PROP ROW
STA: 104+30.58, OFF: 8.3 RT
CONTRACTOR TO CONNECT TO EX 20" VALVE
REMOVE REDUCER AND PLUG 16" WATER LINE
STA: 104+40.58, OFF: 8.3 RT
INSTALL:
(1) 20" 45° VERTICAL BEND
(1) 20" 45° HORIZONTAL BEND
STA: 104+60.82, OFF: 29.0 RT
INSTALL:
(1) 20" 45° VERTICAL BEND
(1) 20" 45° HORIZONTAL BEND
EX 16" WATER LINE TO BE REMOVED IF NEEDED. OTHERWISE, CONTRACTOR SHALL CUT, PLUG BOTH ENDS AND ABANDONED.
EX ROW
STA: 106+95.48, OFF: 29.0 RT
INSTALL:
(1) 20" 45° HORIZONTAL BEND
STA: 107+03.08, OFF: 21.6 RT
INSTALL:
(1) 20" 45° HORIZONTAL BEND
STA: 107+12.46, OFF: 21.6 RT
CONTRACTOR TO CONNECT TO EX 16" WATER LINE AND PLUG ABANDONED 16" WATER LINE
INSTALL:
(1) 20" X 20" TEE
(2) 20" VALVES
(1) 16" VALVES
(1) 20' TO 16" REDUCER
STA: 107+12.19, OFF: 52.8 RT
INSTALL:
(1) 20" PLUG
PROP 20" WATER LINE BY OTHERS (SARDIS)
CONTRACTOR TO INSTALL 30 LF OF 20" WATER LINE
N WALNUT GROVE ROAD
STA: 1+48.94, OFF: 0.0
INSTALL:
(1) 16" PLUG
STA: 1+42.76, OFF: 0.3 LT
INSTALL:
(1) 16" 45° HORIZONTAL BEND
STA: 1+37.04, OFF: 0.5 RT
INSTALL:
(1) 16" 45° HORIZONTAL BEND
STA: 1+24.73, OFF: 0.0
CONTRACTOR TO CONNECT TO EX 16" WATER LINE
INSTALL:
(2) 16" BUTTERFLY VALVE
(1) 16" TEE
STA: 108+36.53, OFF: 21.6 RT
CONTRACTOR TO REMOVE 16" PLUG AND CONNECT TO EX 16" WATER LINE
PROPOSED 20" WATER LINE
PROPOSED 16" WATER LINE

SCALE: 1" = 20' HORIZONTAL
1" = 4' VERTICAL

710 705 700 695 690 685 680
104+00 105+00 106+00 107+00 107+25

STA: 104+60.82
INSTALL:
(1) 20" 45° VERTICAL BEND
(1) 20" 45° HORIZONTAL BEND
EX GROUND AT WATERLINE C/L
PROP GROUND AT WATERLINE C/L
EX 20" WATER LINE TO REMAIN
STA: 107+03.08
INSTALL:
(1) 20" 45° HORIZONTAL BEND
EX 16" WATER LINE TO REMAIN
STA: 106+95.48
INSTALL:
(1) 20" 45° HORIZONTAL BEND
5.9'±
234.67 LF OF 20" PVC
3.2'±
28.97 LF OF 20" PVC
STA: 104+40.58
INSTALL:
(1) 20" 45° VERTICAL BEND
(1) 20" 45° HORIZONTAL BEND
10.00 LF OF 20" PVC
STA: 104+30.58
CONTRACTOR TO CONNECT TO EX 20" VALVE
REMOVE REDUCER AND PLUG 16" WATER LINE
PROP STORM CULVERT E
RE: C3.45
10.62 LF OF 20" PVC
9.37 LF OF 20" PVC
STA: 107+12.46
CONTRACTOR TO CONNECT TO EX 16" WATER LINE AND PLUG ABANDONED 16" WATER LINE
INSTALL:
(1) 20" X 20" TEE
(2) 20" VALVES
(1) 16" VALVES
(1) 20' TO 16" REDUCER

SCALE: 1" = 20' HORIZONTAL
1" = 4' VERTICAL

715 710 705 700 695 690 685
108+00 109+00 109+25

PROP GROUND WATER LINE
EX GROUND WATER LINE
STA: 108+36.53
CONTRACTOR TO REMOVE 16" PLUG AND CONNECT TO EX 16" WATER LINE
STA: 108+73.69
INSTALL:
(1) 16" 45° HORIZONTAL BEND
STA: 108+84.08
INSTALL:
(1) 16" PLUG
24.73 LF OF 16" PVC
STA: 108+61.25
CONTRACTOR TO CONNECT TO EX 16" WATER LINE
INSTALL:
(2) 16" BUTTERFLY VALVE
(1) 16" TEE
12.44 LF OF 16" PVC
5.93 LF OF 16" PVC
STA: 108+77.82
INSTALL:
(1) 16" 45° HORIZONTAL BEND
6.26 LF OF 16" PVC

Plotted, By: 2026-08-21 11:48:54, Holland, Lindsey
Last Saved: 2026-08-21 09:37:37 (WATER PLAN – (SHEET 6 OF 6))
Filename: k:\tw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\waterline conflicts.dwg

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

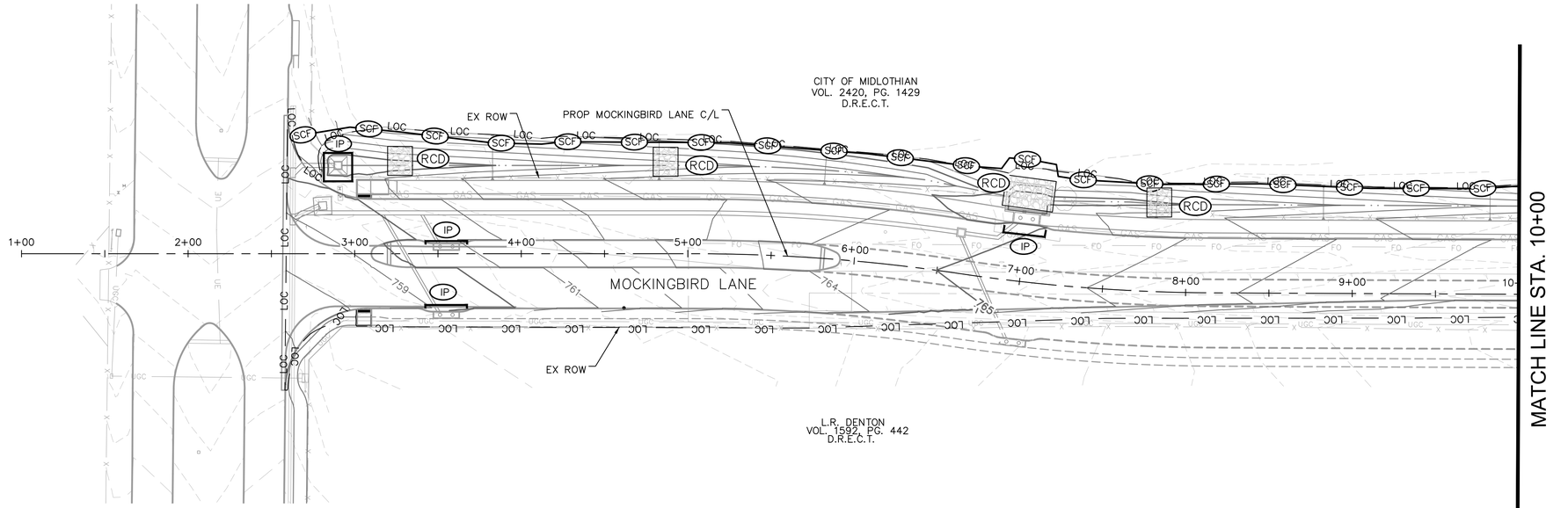
WATER PLAN - (SHEET 6 OF 6)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

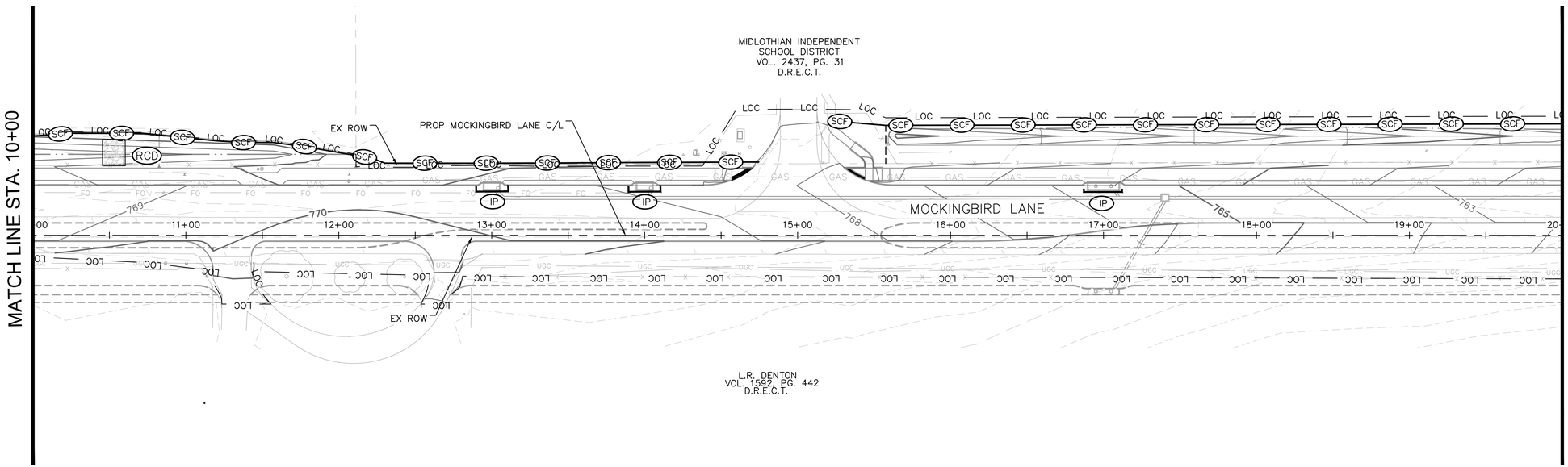
SHEET NUMBER
C4.06

LEGEND

SEDIMENT CONTROL FENCE	SCF
INLET PROTECTION	IP
ROCK CHECK DAM	RCD
LIMITS OF CONSTRUCTION	LOC



MATCH LINE STA. 10+00



MATCH LINE STA. 20+00

GRAPHIC SCALE

40 0 20 40 80

ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 80 FT

NOTE:
PARKWAY SHALL BE RESTORED USING SOD. CONTRACTOR SHALL ONLY INSTALL SOD TO THE LIMITS OF CONSTRUCTION.

Kimley»Horn

801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026

MISTY D. CHRISTIAN
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LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

EROSION CONTROL PLAN - (SHEET 1 OF 7)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

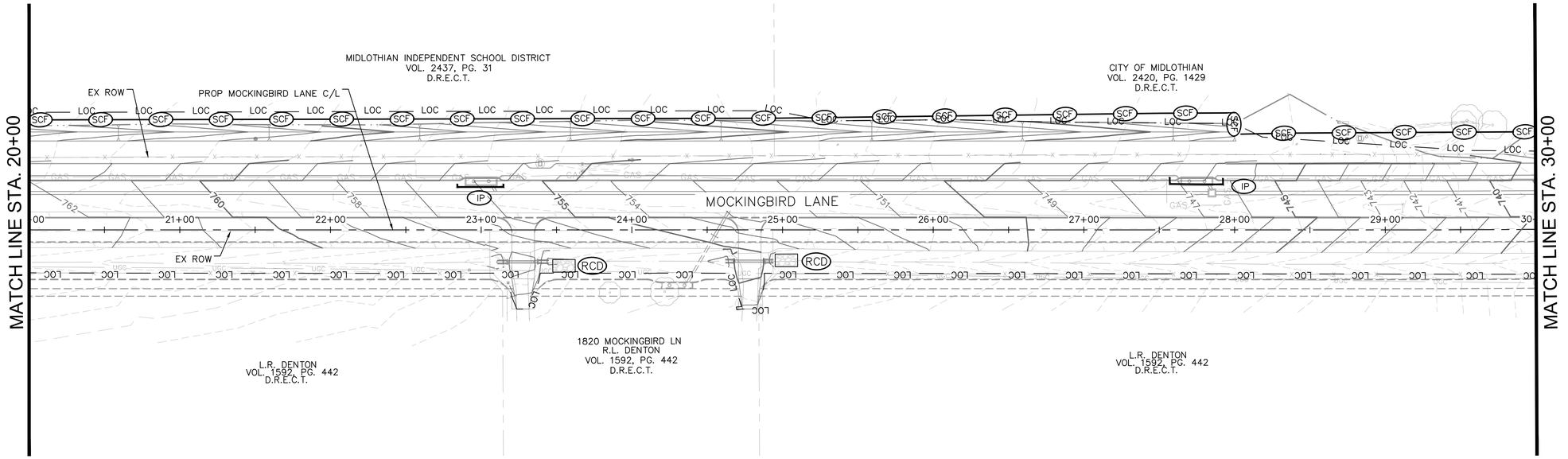
SHEET NUMBER

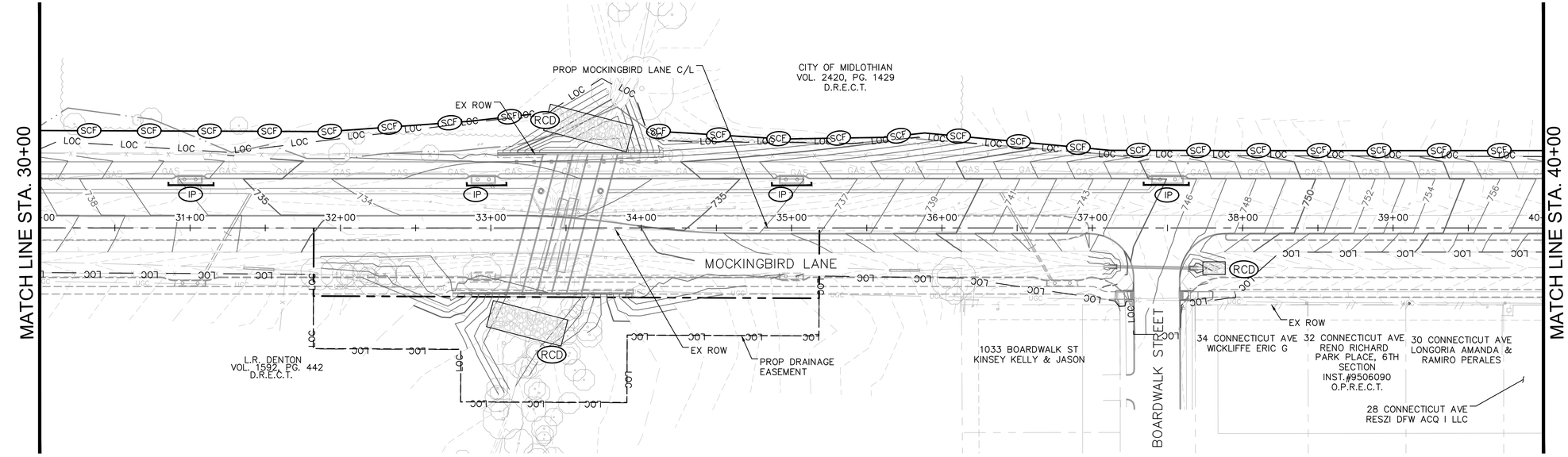
C5.01

Plotted By: 2026-08-21 11:46:57, Del Rosso, Austin
Last Saved: 2026-08-21 10:38:17 (EROSION CONTROL PLAN – (SHEET 1 OF 7))
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\erosion control plan.dwg

LEGEND

- SEDIMENT CONTROL FENCE — SCF
- INLET PROTECTION — IP
- ROCK CHECK DAM — RCD
- LIMITS OF CONSTRUCTION — LOC





GRAPHIC SCALE

40 0 20 40 80

ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 80 FT

NOTE:
PARKWAY SHALL BE RESTORED USING SOD. CONTRACTOR SHALL ONLY INSTALL SOD TO THE LIMITS OF CONSTRUCTION.

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801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

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STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

EROSION CONTROL PLAN - (SHEET 2 OF 7)

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

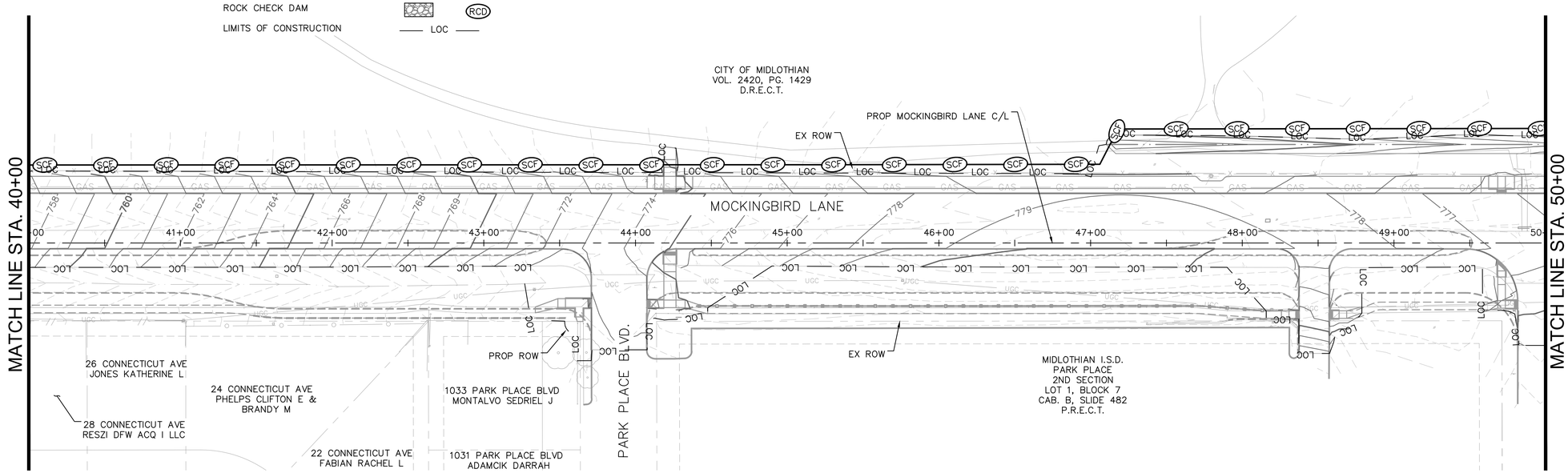
SHEET NUMBER

C5.02

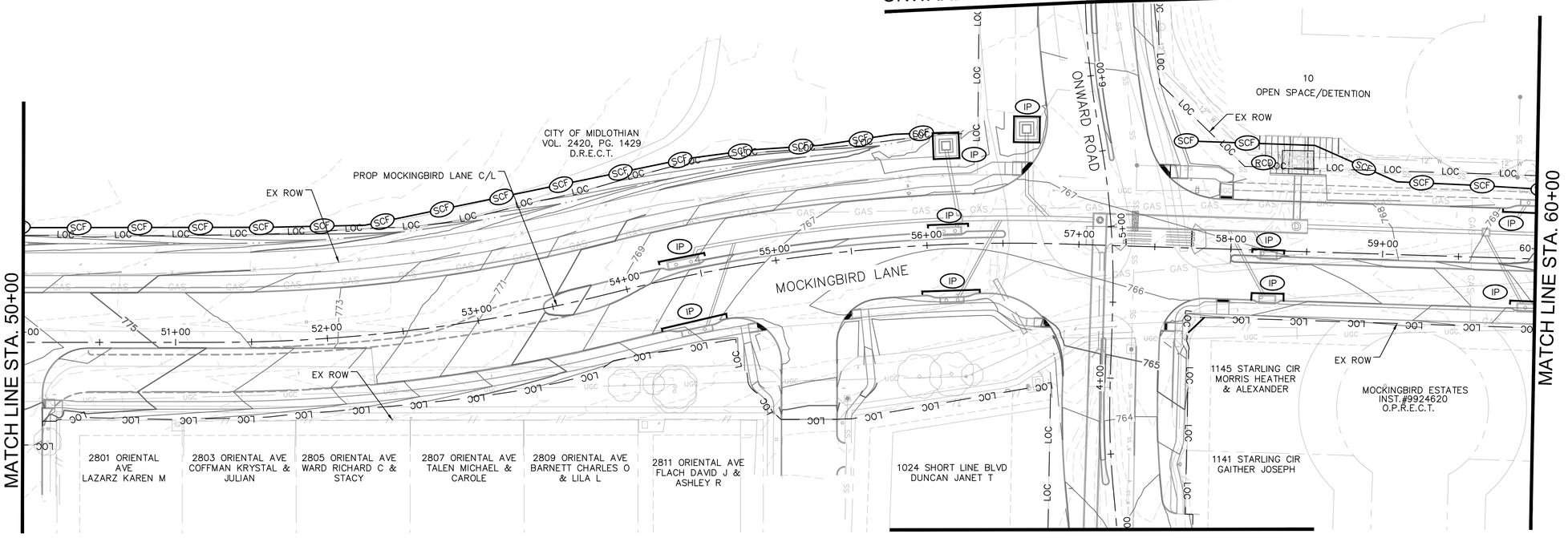
Plotted By: 2026-08-21 11:47:04, Del Rosso, Austin
Last Saved: 2026-08-21 10:38:17 (EROSION CONTROL PLAN – (SHEET 2 OF 7))
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\erosion control plan.dwg

LEGEND

SEDIMENT CONTROL FENCE	———	SCF
INLET PROTECTION	⌊	IP
ROCK CHECK DAM	▨	RCD
LIMITS OF CONSTRUCTION	—— LOC ——	



MATCH LINE
ONWARD ROAD STA. 6+50 - SEE SHEET C5.07



MATCH LINE
ONWARD ROAD STA. 3+00 - SEE SHEET C5.07

GRAPHIC SCALE
40 0 20 40 80

ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 80 FT

NOTE:
PARKWAY SHALL BE RESTORED USING SOD. CONTRACTOR SHALL ONLY INSTALL SOD TO THE LIMITS OF CONSTRUCTION.

Kimley»Horn
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No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

EROSION CONTROL PLAN - (SHEET 3 OF 7)

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

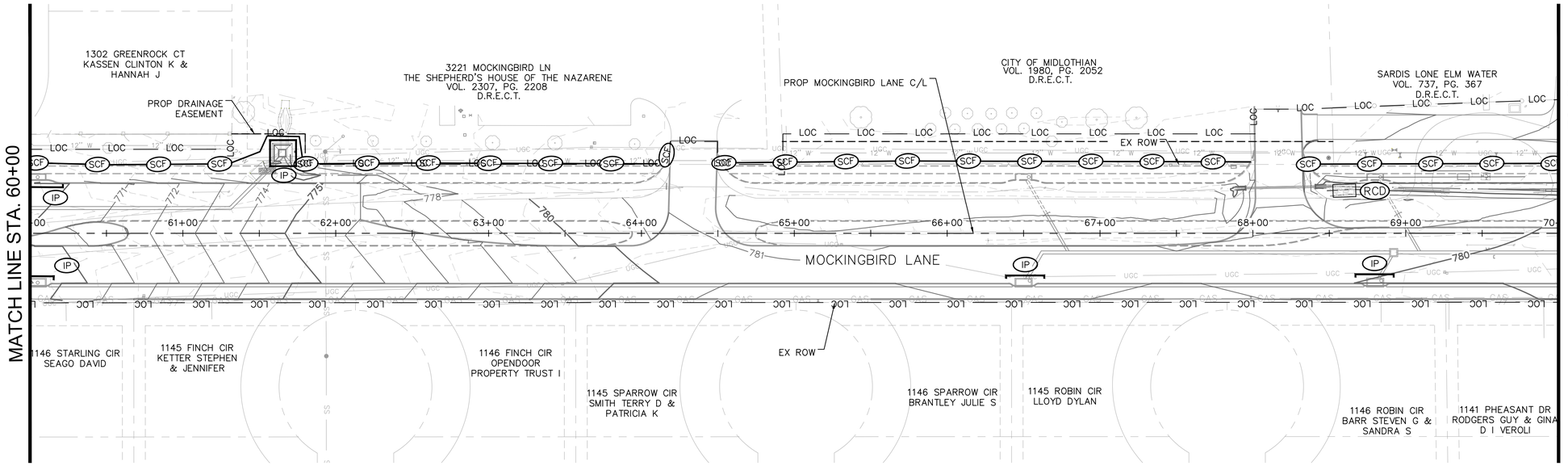
SHEET NUMBER

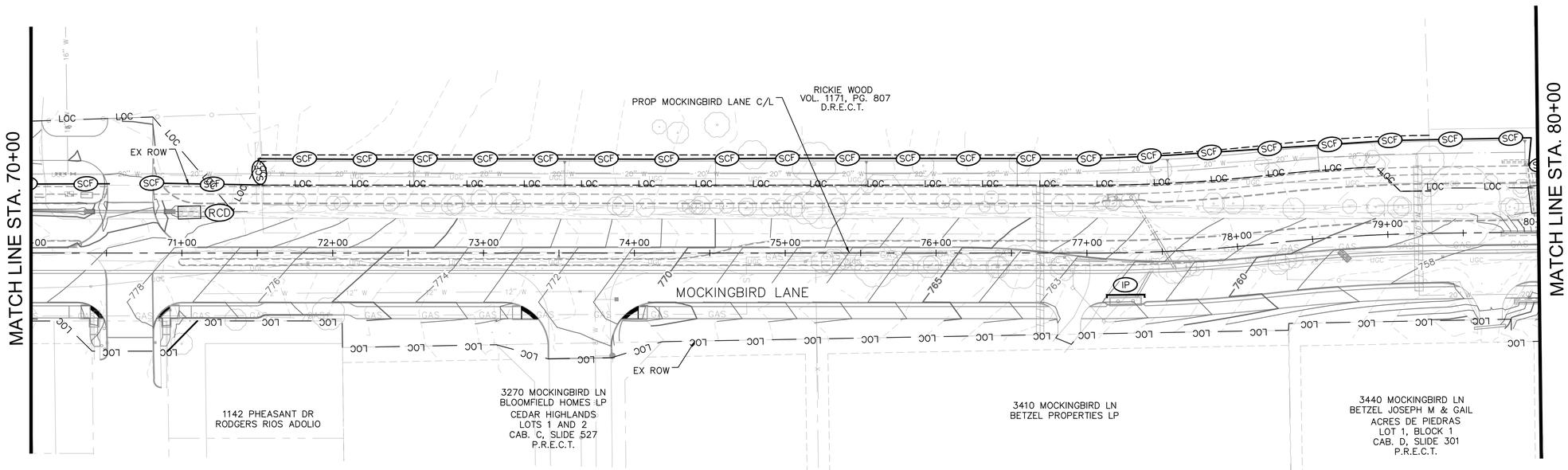
C5.03

Plotted, By: 2026-08-21 11:47:12, Del Rosso, Austin
Last Saved: 2026-08-21 10:38:17 (EROSION CONTROL PLAN - (SHEET 3 OF 7))
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\erosion control plan.dwg

LEGEND

SEDIMENT CONTROL FENCE	——	SCF
INLET PROTECTION	⌐¬	IP
ROCK CHECK DAM	▨	RCD
LIMITS OF CONSTRUCTION	—— LOC ——	





GRAPHIC SCALE

40 0 20 40 80

ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 80 FT

NOTE:
PARKWAY SHALL BE RESTORED USING SOD. CONTRACTOR SHALL ONLY INSTALL SOD TO THE LIMITS OF CONSTRUCTION.

Kimley»Horn
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No.	Revision	By	Date

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MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

EROSION CONTROL PLAN - (SHEET 4 OF 7)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER

C5.04

Plotted, By: 2026-08-21 11:47:19, Del Rosso, Austin
Last Saved: 2026-08-21 10:38:17 (EROSION CONTROL PLAN – (SHEET 4 OF 7))
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\erosion control plan.dwg

LEGEND

SEDIMENT CONTROL FENCE	SCF
INLET PROTECTION	IP
ROCK CHECK DAM	RCD
LIMITS OF CONSTRUCTION	LOC

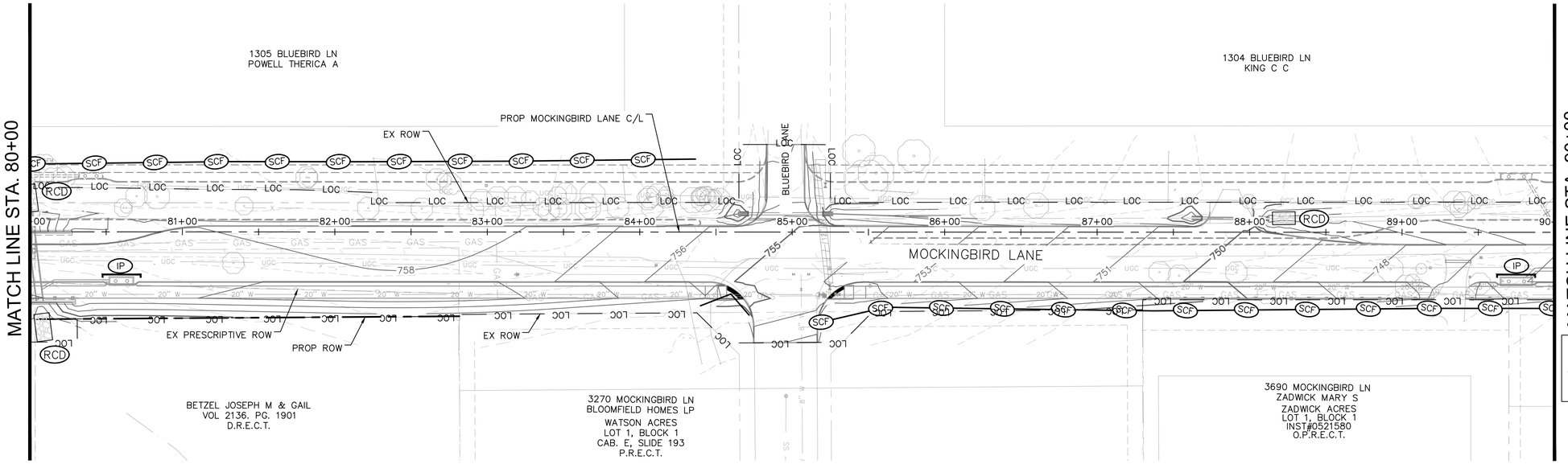
GRAPHIC SCALE

40 0 20 40 80

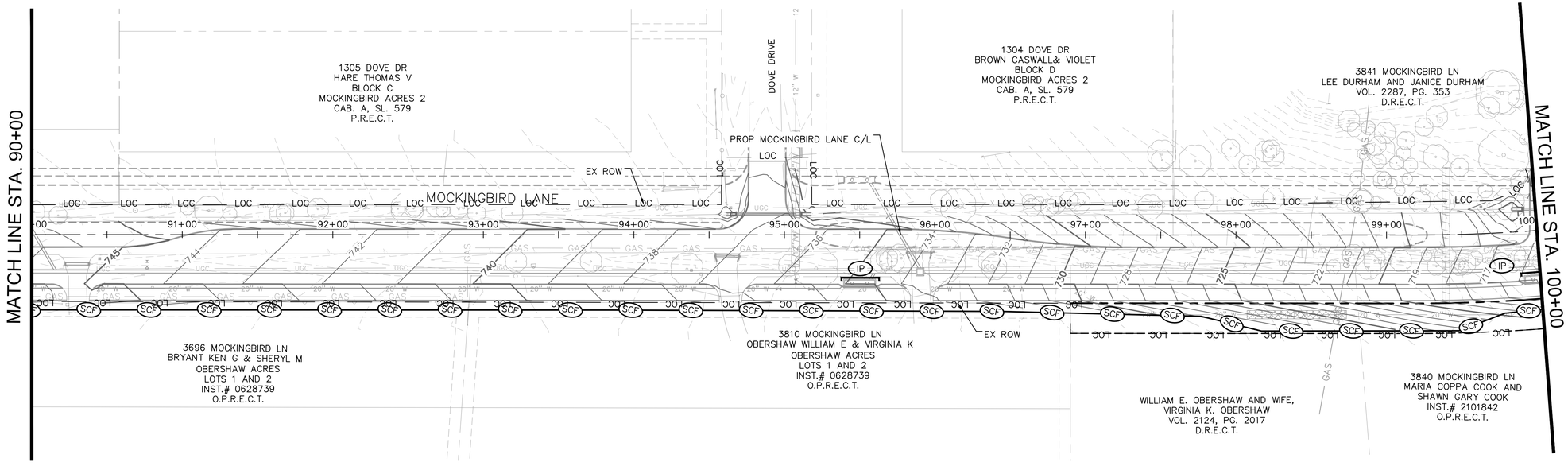
ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 80 FT

NOTE:
PARKWAY SHALL BE RESTORED USING SOD. CONTRACTOR SHALL ONLY INSTALL SOD TO THE LIMITS OF CONSTRUCTION.



WARNING
HIGH PRESSURE PIPELINE(S)
EXCAVATION AND/OR CONSTRUCTION PROHIBITED WITHOUT COMPLIANCE WITH **STATE ONE-CALL**, AND WITHOUT WRITTEN PERMISSION FROM **MAGELLAN PIPELINE COMPANY, L.P.**



Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
JUSTIN D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

EROSION CONTROL PLAN - (SHEET 5 OF 7)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C5.05

2026-08-21 11:47:27, Del Rosso, Austin
2026-08-21 10:38:17 (EROSION CONTROL PLAN - (SHEET 5 OF 7))
Plotted, By:
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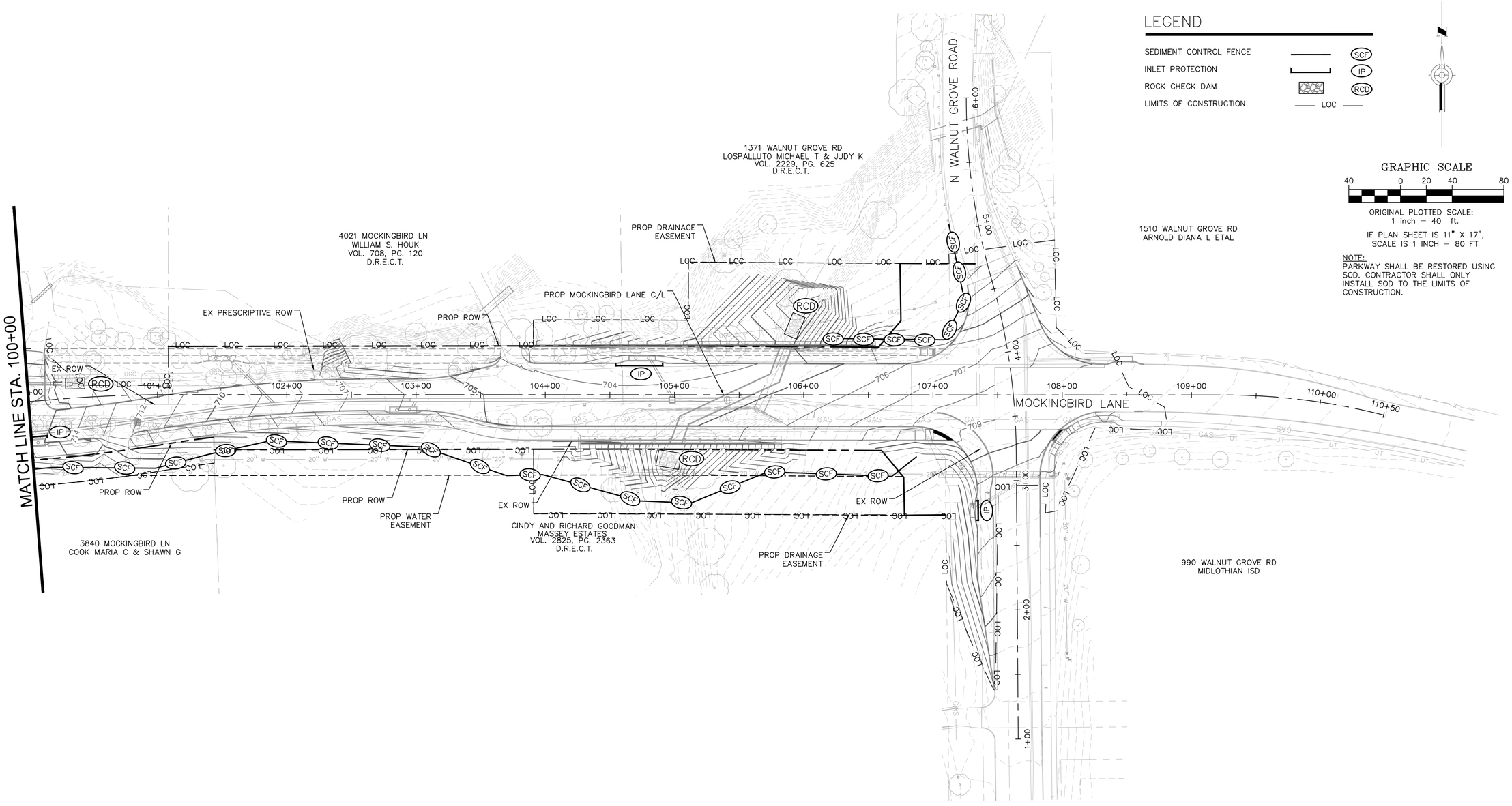
Filename: lane\cadd\sheets\erosion control plan.dwg



Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

EROSION CONTROL PLAN - (SHEET 6 OF 7)

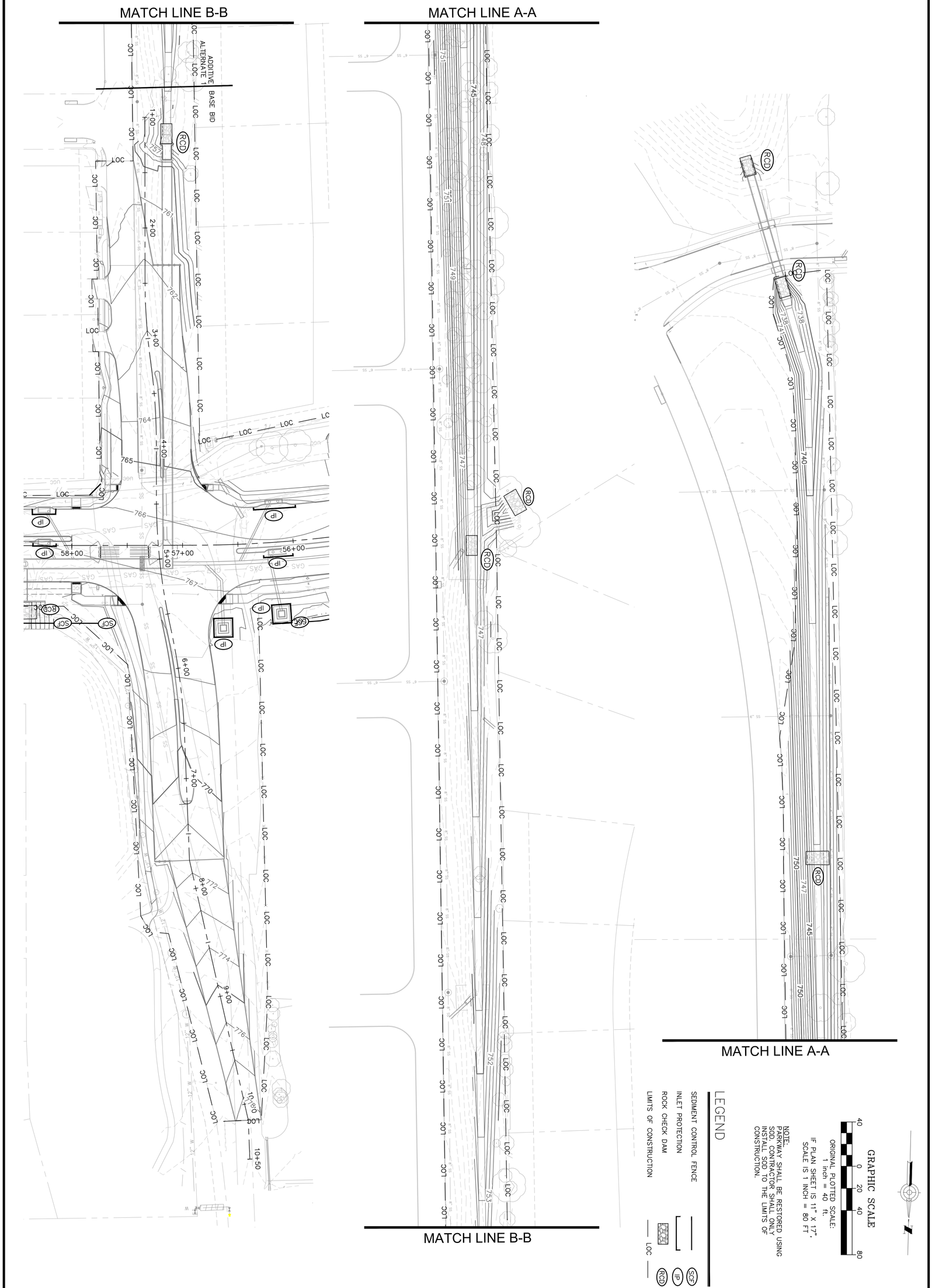
DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C5.06

Plotted, By: 2026-08-21 11:47:32, Del Rosso, Austin
Last Saved: 2026-08-21 10:38:17 (EROSION CONTROL PLAN - (SHEET 6 OF 7))
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\erosion control plan.dwg

2026-08-21 11:47:41, Del Rosso, Austin
2026-08-21 10:38:17 (EROSION CONTROL PLAN - (SHEET 7 OF 7))
Plotted, By:
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\erosion control plan.dwg
Filename:



LEGEND

- SEDIMENT CONTROL FENCE
- INLET PROTECTION
- ROCK CHECK DAM
- LIMITS OF CONSTRUCTION

RCD IP SCF LOC

NOTE:
PARKWAY SHALL BE RESTORED USING SOD. CONTRACTOR SHALL ONLY INSTALL SOD TO THE LIMITS OF CONSTRUCTION.

GRAPHIC SCALE
40 0 20 40 80
ORIGINAL PLOTTED SCALE: 1 inch = 40 ft.
IF PLAN SHEET IS 11" X 17", SCALE IS 1 INCH = 80 FT

C5.07	SHEET NUMBER	
DATE: AUGUST 2026		
DESIGN: ALC		
DRAWN: JSE		
CHECKED: MDC		
KHA NO.: 061265047		

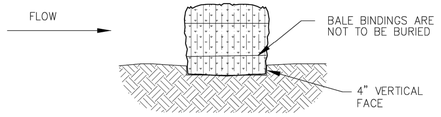
EROSION CONTROL PLAN - (SHEET 7 OF 7)

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED
PROFESSIONAL ENGINEER

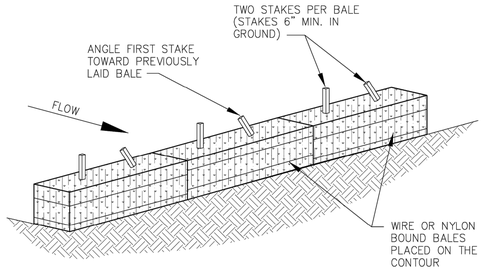
Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date



EMBEDDING DETAIL

N.T.S.



ANCHORING DETAIL

N.T.S.

STRAW BALE DIKE GENERAL NOTES:

1. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF FOUR INCHES.

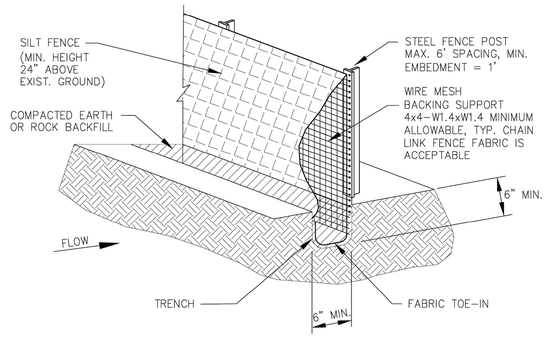
2. BALES SHALL BE SECURELY ANCHORED IN PLACE BY 2" X 2" WOOD STAKES DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD THE PREVIOUSLY LAID BALE TO FORCE THE BALES TOGETHER.

3. INSPECTION SHALL BE MADE EVERY TWO WEEKS AND AFTER EACH 1/2" RAINFALL EVENT. REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED BY THE CONTRACTOR.

4. WHEN SILT REACHES A DEPTH OF 6 INCHES, IT SHALL BE REMOVED AND DISPOSED OF IN AN APPROVED MANNER.

5. AFTER THE DISTURBED AREAS OF THE SITE ARE COMPLETELY STABILIZED, THE BALES SHALL BE REMOVED AND DISPOSED OF AT AN APPROVED SPOIL DISPOSAL SITE.

1 STRAW BALE DIKE



ISOMETRIC PLAN VIEW

N.T.S.

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.

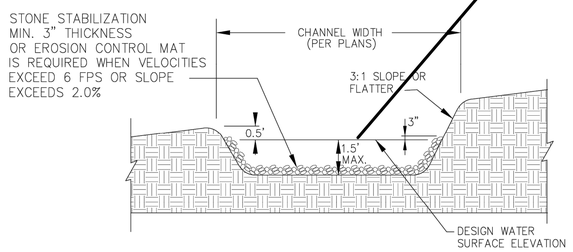
6. SILT FENCE SHALL BE REMOVED WHEN THE SITE IS COMPLETELY STABILIZED SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.

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.

2 SILT FENCE

PLAN VIEW

N.T.S.



CROSS SECTION

N.T.S.

INTERCEPTOR SWALE GENERAL NOTES:

1. ALL TREES, BRUSH, STUMPS, OBSTRUCTIONS AND OTHER MATERIAL SHALL BE REMOVED AND DISPOSED OF SO AS TO NOT INTERFERE WITH THE PROPER FUNCTIONING OF THE SWALE.

2. THE SWALE SHALL BE EXCAVATED OR SHAPED TO LINE, GRADE AND CROSS-SECTION AS REQUIRED TO MEET CRITERIA SPECIFIED HEREIN AND BE FREE OF BANK PROJECTIONS OR OTHER IRREGULARITIES WHICH WILL IMPEDE NORMAL FLOW.

3. ALL EARTH REMOVED AND NOT NEEDED IN CONSTRUCTION SHALL BE DISPOSED OF IN AN APPROVED SPOILS SITE SO THAT IT WILL NOT INTERFERE WITH THE FUNCTIONING OF THE SWALE.

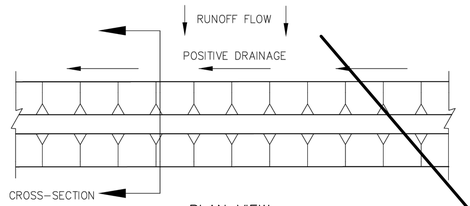
4. DIVERTED RUNOFF FROM A DISTURBED OR EXPOSED UPLAND AREA SHALL BE CONVEYED TO A SEDIMENT TRAPPING DEVICE.

5. THE ON-SITE LOCATION MAY NEED TO BE ADJUSTED TO MEET FIELD CONDITIONS IN ORDER TO UTILIZE THE MOST SUITABLE OUTLET.

6. STABILIZATION IS REQUIRED WHEN VELOCITIES EXCEED 6 FEET PER SECOND OR WHEN GRADES EXCEED 2.0 %. STABILIZATION SHALL BE CRUSHED STONE PLACED IN A LAYER OF AT LEAST 3 INCHES THICKNESS OR HIGH VELOCITY EROSION CONTROL MATTING. VEGETATION MAY BE USED FOR VELOCITIES LESS THAN 6 FEET PER SECOND.

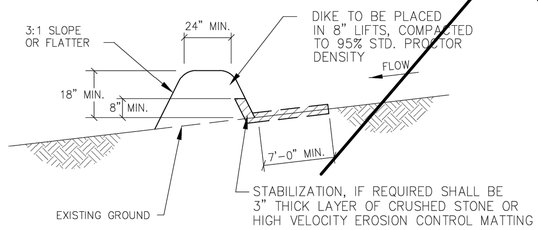
7. MINIMUM COMPACTION FOR THE SWALE SHALL BE 90 PERCENT STANDARD PROCTOR.

3 INTERCEPTOR SWALE



PLAN VIEW

N.T.S.



CROSS SECTION

N.T.S.

DIVERSION DIKE GENERAL NOTES:

1. ALL DIKES SHALL BE PLACED IN 8" LIFTS OR LESS AND COMPACTED TO 95% STANDARD PROCTOR DENSITY.

2. ALL DIVERSION DIKES SHALL :HAVE POSITIVE DRAINAGE TO A CONTROLLED OUTLET.

3. DIVERTED RUNOFF FROM A PROTECTED OR STABILIZED AREA SHALL HAVE ITS OUTLET FLOW DIRECTED TO AN UNDISTURBED STABILIZED AREA OR INTO A LEVEL SPREADER OR GRADE STABILIZATION STRUCTURE.

4. DIVERTED RUNOFF FROM A DISTURBED OR EXPOSED AREA SHALL BE CONVEYED TO SEDIMENT TRAP SUCH AS A ROCK BERM, TEMPORARY SEDIMENT TRAP OR SEDIMENT BASIN OR TO AN AREA PROTECTED BY ANY OF THESE MEASURES.

5. STABILIZATION IS REQUIRED WHEN VELOCITIES EXCEED 6 FEET PER SECOND OR WHEN GRADES EXCEED 2.0%. STABILIZATION SHALL BE CRUSHED STONE PLACED IN A LAYER OF AT LEAST 3 INCHES THICKNESS OR HIGH VELOCITY EROSION CONTROL MATTING. VEGETATION MAY BE USED FOR VELOCITIES LESS THAN 6 FEET PER SECOND.

6. INSPECTION SHALL BE CONDUCTED EVERY TWO WEEKS OR AFTER EACH 1/2" RAINFALL EVENT.

4 DIVERSION DIKE

NOTES:
1. ALL EROSION CONTROL MEASURES SHALL BE REMOVED IN A TIMELY MANNER, OR UPON CITY'S STAFF DIRECTION.

NOTE: THIS IS SHT. SD-25 OF THE STANDARD CONSTRUCTION DETAILS, ORDINANCE NO. 2013-51 EFFECTIVE DATE: JANUARY 1, 2014

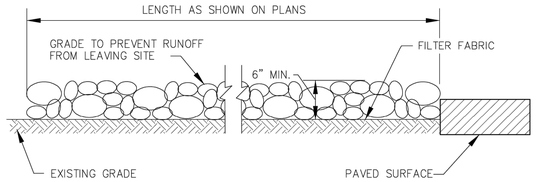
CITY OF MIDLOTHIAN, TEXAS
DEPARTMENT OF ENGINEERING,
UTILITIES, AND PUBLIC WORKS

STANDARD CONSTRUCTION DETAILS EROSION & SEDIMENT CONTROL

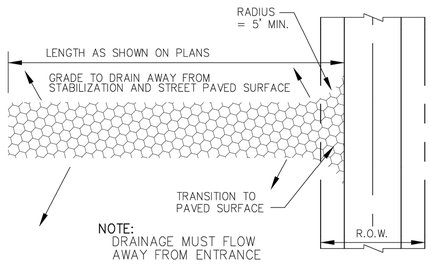
EROSION AND SEDIMENT CONTROL DETAILS

NO:	REVISION:	DATE:	SHEET:
			C5.08

Midlothian
DFW's Southern Star



PROFILE VIEW
N.T.S.



PLAN VIEW
N.T.S.

STABILIZED CONSTRUCTION ENTRANCE GENERAL NOTES:

1. STONE SHALL BE 3 TO 5 INCH DIAMETER CRUSHED ROCK OR ACCEPTABLE CRUSHED PORTLAND CEMENT CONCRETE.

2. LENGTH SHALL BE SHOWN ON PLANS, WITH A MINIMUM LENGTH OF 30 FEET FOR LOTS WHICH ARE LESS THAN 150 FEET FROM EDGE OF PAVEMENT. THE MINIMUM DEPTH IN ALL OTHER CASES SHALL BE 50 FEET.

3. THE THICKNESS SHALL NOT BE LESS THAN 6 INCHES.

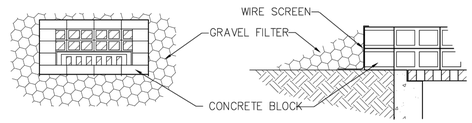
4. THE WIDTH SHALL BE NO LESS THAN THE FULL WIDTH OF ALL POINTS OF INGRESS OR EGRESS.

5. WHEN NECESSARY, VEHICLES SHALL BE CLEANED TO REMOVE SEDIMENT PRIOR TO ENTRANCE ONTO A PUBLIC ROADWAY. WHEN WASHING IS REQUIRED, IT SHALL BE DONE ON AN AREA STABILIZED WITH CRUSHED STONE WITH DRAINAGE FLOWING AWAY FROM BOTH THE STREET AND THE STABILIZED ENTRANCE. ALL SEDIMENT SHALL BE PREVENTED FROM ENTERING ANY STORM DRAIN, DITCH OR WATERCOURSE USING APPROVED METHODS.

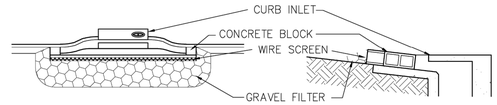
6. THE ENTRANCE SHALL BE MAINTAINED IN A CONDITION WHICH WILL PREVENT TRACKING OR FLOWING OF SEDIMENT ONTO PAVED SURFACES. THIS MAY REQUIRE PERIODIC TOP DRESSING WITH ADDITIONAL STONE AS CONDITIONS DEMAND. ALL SEDIMENT SPILLED, DROPPED, WASHED, OR TRACKED ONTO PAVED SURFACES MUST BE REMOVED IMMEDIATELY.

7. THE ENTRANCE MUST BE PROPERLY GRADED OR INCORPORATE A DRAINAGE SWALE TO PREVENT RUNOFF FROM LEAVING THE CONSTRUCTION SITE.

1 STABILIZED CONSTRUCTION ENTRANCE

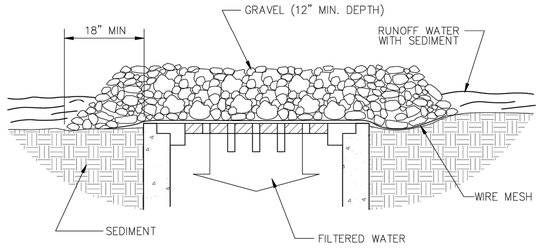


DROP INLET PROTECTION
N.T.S.



CURB INLET PROTECTION
N.T.S.

2 INLET PROTECTION BLOCK AND GRAVEL



CROSS SECTION
N.T.S.

SPECIFIC APPLICATION

THIS METHOD OF INLET PROTECTION IS APPLICABLE WHERE HEAVY CONCENTRATION FLOWS ARE EXPECTED, BUT NOT WHERE PONDING AROUND THE STRUCTURE MIGHT CAUSE EXCESSIVE EROSION AND UNPROTECTED AREAS.

3 INLET PROTECTION WIRE MESH AND GRAVEL

4 STORM WATER POLLUTION PREVENTION PLAN AND EROSION CONTROL

A STORM WATER POLLUTION PREVENTION PLAN (SWPPP) IS REQUIRED BY THE TEXAS COMMISSION ON ENVIRONMENTAL QUALITY (TCEQ) FOR ALL CONSTRUCTION ACTIVITIES THAT DISTURB ONE (1) OR MORE ACRES. THIS PLAN SHALL SHOW PROPOSED MEASURES TO CONTROL POLLUTANTS IN STORM WATER DISCHARGES DURING AND AFTER CONSTRUCTION OPERATIONS. A SECTION OF THE SWPPP SHALL CONTAIN AN EROSION CONTROL PLAN, SIGNED AND SEALED BY A PROFESSIONAL ENGINEER LICENSED IN THE STATE OF TEXAS. A NOTICE OF INTENT (N.O.I.) AND NOTICE OF TERMINATION (N.O.T.) IS REQUIRED BY TCEQ FOR ALL CONSTRUCTION ACTIVITIES THAT DISTURB FIVE (5) OR MORE ACRES. A COPY OF THE N.O.I. SHALL BE POSTED AT THE CONSTRUCTION SITE PRIOR TO COMMENCING CONSTRUCTION AND SHALL BE MAINTAINED AT A READILY AVAILABLE LOCATION UNTIL COMPLETION OF THE CONSTRUCTION ACTIVITIES. THE N.O.I. MUST BE SUBMITTED AND FILED 48 HOURS PRIOR TO THE START OF CONSTRUCTION. THE N.O.T. MUST BE FILED UPON COMPLETION OF CONSTRUCTION.

THE SWPPP SHALL BE KEPT AT THE CONSTRUCTION SITE FOR ASSESSMENT BY TCEQ INSPECTORS AT ALL TIMES. THE SWPPP SHALL BE KEPT UP-TO-DATE, AND CLEARLY INDICATE ANY AND ALL CHANGES MADE TO THE PLAN THROUGHOUT CONSTRUCTION. THE TCEQ REQUIRES THAT INSPECTIONS OF THE STORM WATER POLLUTION MEASURES BE DONE ON A BI-WEEKLY BASIS AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER. A RECORD OF ALL INSPECTIONS SHALL BE KEPT AT THE CONSTRUCTION SITE. AN EROSION CONTROL PLAN SHALL BE INCLUDED AS A PART OF THE ENGINEERING PLANS. EROSION CONTROL MEASURES (CURLEX BLANKET, SILT FENCE, ETC.) MUST BE PLACED BEHIND THE BACK OF CURB AT THE END OF CONSTRUCTION. ALL DITCHES OR SWALES THAT ARE CONSTRUCTED SHALL BE IMMEDIATELY HYDROMULCHED AND MAINTAINED THROUGHOUT THE LIFE OF THE MAINTENANCE PERIOD. SHOULD ANY POLLUTION PREVENTION OR EROSION CONTROL MEASURE FAIL, THE FAILURE SHALL BE REPAIRED IMMEDIATELY.

NOTE: THIS IS SHT. SD-26 OF THE STANDARD CONSTRUCTION DETAILS, ORDINANCE NO. 2013-51 EFFECTIVE DATE: JANUARY 1, 2014

CITY OF MIDLOTHIAN, TEXAS
DEPARTMENT OF ENGINEERING, UTILITIES, AND PUBLIC WORKS

STANDARD CONSTRUCTION DETAILS
EROSION & SEDIMENT CONTROL

EROSION AND SEDIMENT CONTROL DETAILS

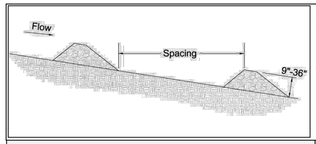
NO:	REVISION:	DATE:	SHEET:
			C5.09

Midlothian
DFW's Southern Star

2.0 Erosion Controls

2.1 Check Dam

Erosion Control



Description: Check dams are small barriers consisting of loose rock, rock bags, or organic filter tubes placed across a drainage swale or ditch. They reduce the velocity of small concentrated flows, provide a limited barrier for sediment and reduce the potential for erosion of the swale or ditch.

KEY CONSIDERATIONS

DESIGN CRITERIA:

- Heights between 9 inches and 36 inches
- Top of the downstream dam should be at the same elevation as the toe of the upstream dam

ADVANTAGES / BENEFITS:

- Reduced velocities in long drainage swales or ditches
- May be used with other channel protection measures
- Provides some sediment removal

DISADVANTAGES / LIMITATIONS:

- Cannot be used in live stream channels
- Minor ponding upstream of the check dams
- Extensive maintenance or replacement of the dams required after heavy flows or high velocity flows
- Mowing hazard from loose rocks if all rock is not removed at end of construction

MAINTENANCE REQUIREMENTS:

- Inspect regularly
- Remove silt when it reaches approximately ¼ the height of the dam or 12 inches, whichever is less

TARGETED POLLUTANTS

- ◒ Sediment
- ○ Nutrients & Toxic Materials
- ○ Oil & Grease
- ◒ Floatable Materials
- ○ Other Construction Wastes

APPLICATIONS

Perimeter Control
Slope Protection
Sediment Barrier
Channel Protection
Temporary Stabilization
Final Stabilization
Waste Management
Housekeeping Practices

Fe=0.30-0.50
(*Depends on soil type*)

IMPLEMENTATION CONSIDERATIONS

- ◒ Capital Costs
- ● Maintenance
- ○ Training
- ◒ Suitability for Slopes > 5%

Other Considerations:

- *None*

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Filename:

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

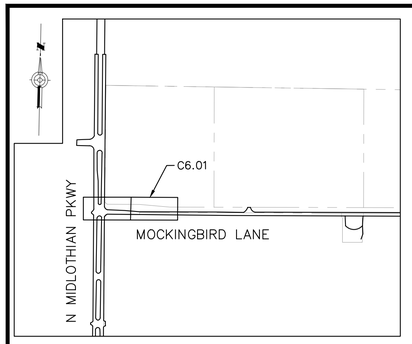
8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

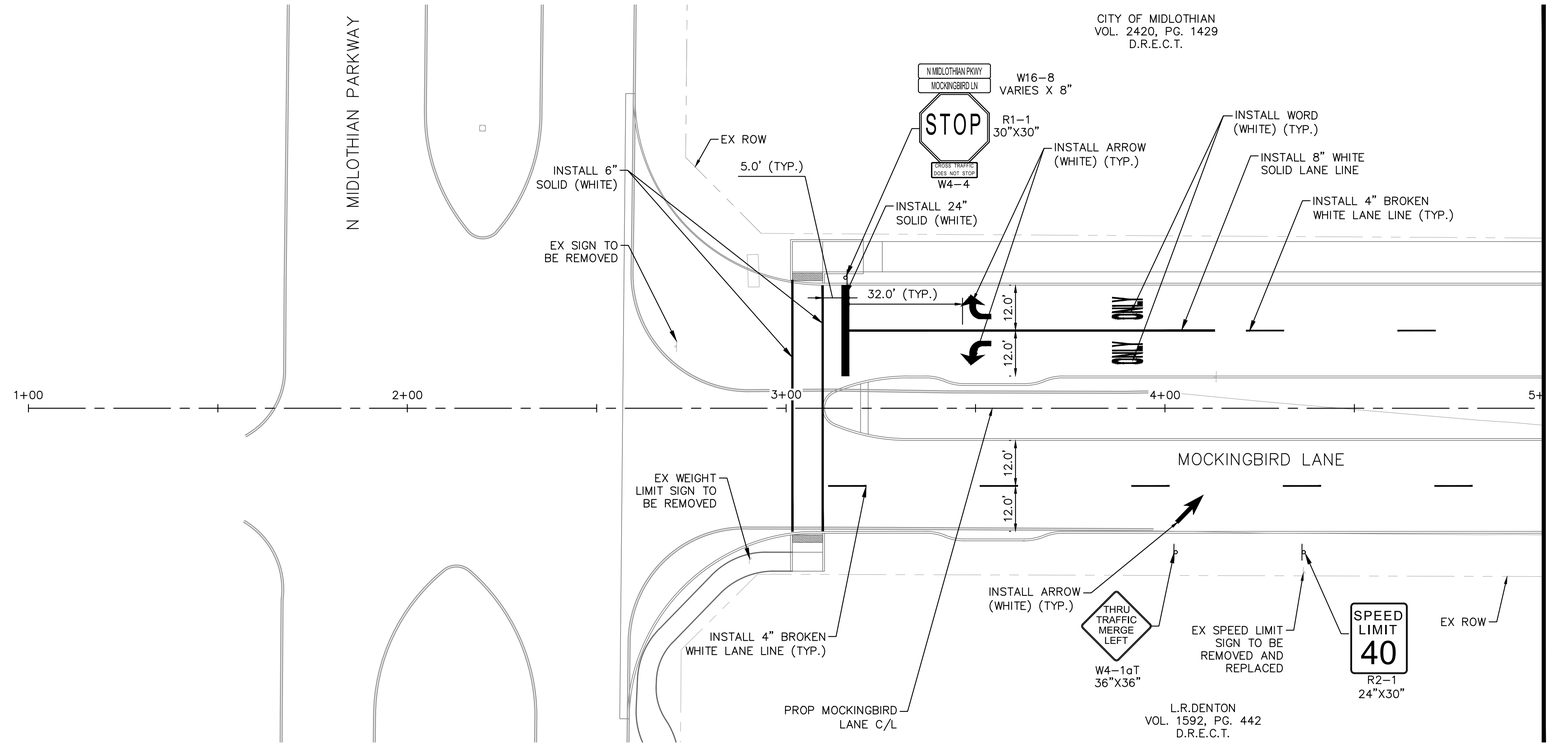
EROSION CONTROL
DETAILS - (SHEET 3 OF 3)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C5.10



KEY MAP



GRAPHIC SCALE

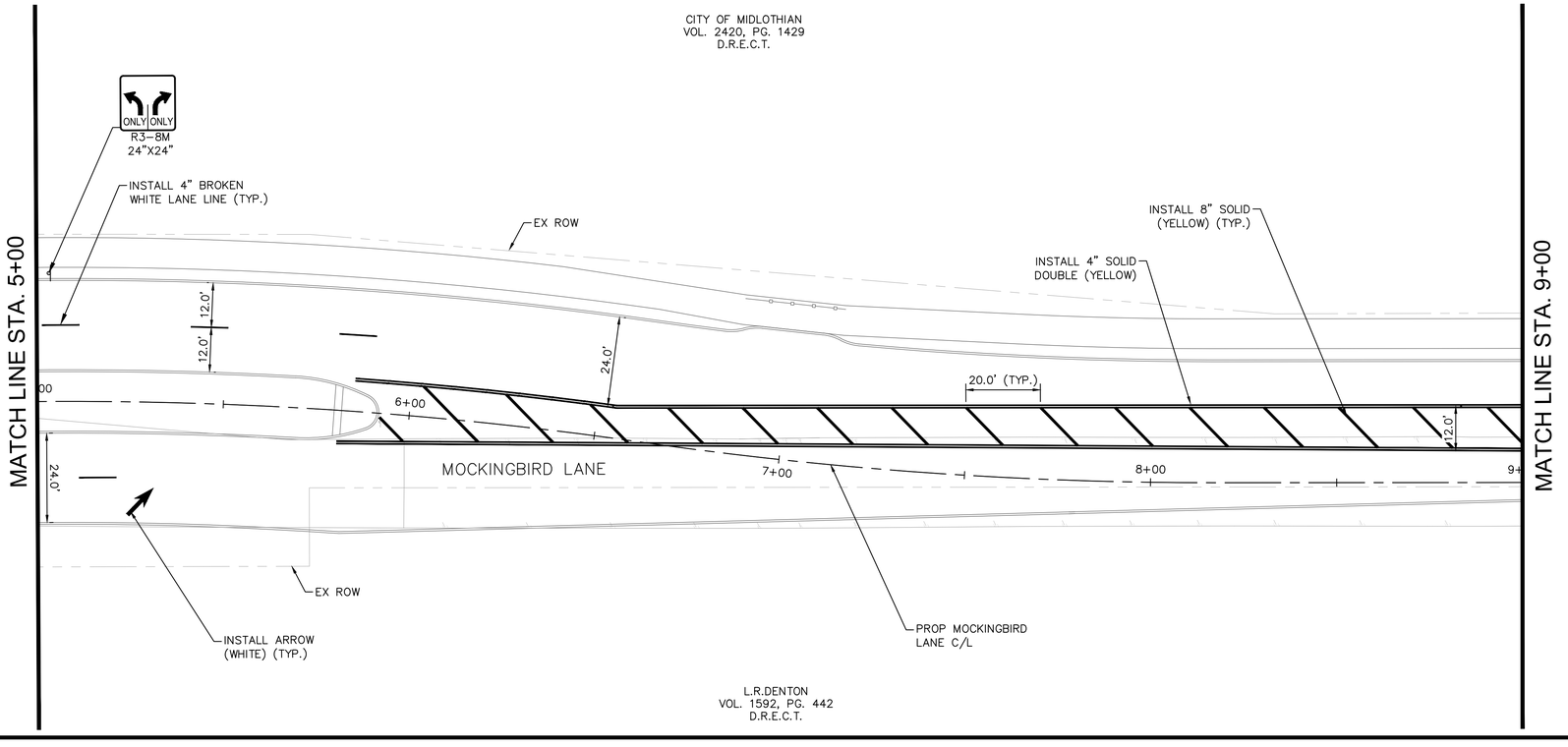
20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
2. ALL SIGNS AND PAVEMENT MARKINGS SHALL ADHERE TO THE LATEST PUBLISHED EDITION OF THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD).
3. THE ENGINEER ATTEMPTED TO NOTE ALL EXISTING SIGNS. CONTRACTOR SHALL INCLUDE IN THEIR BID ALL WORK ASSOCIATED WITH REMOVING, PROTECTING, RELOCATING, AND INSTALLING NEW SIGNS FOR THE ENTIRE PROJECT, REGARDLESS IF THE SIGNS ARE CALLED OUT IN THE PLANS.
4. CONTRACTOR TO COORDINATE WITH THE CITY REGARDING THE EXACT SPELLING, WORDING, COLOR, STYLE, ETC. OF THE SIGNAGE.
5. EXISTING SIGNS AND POSTS THAT ARE TO BE REMOVED SHALL BE SAVAGED AND DELIVERED TO CITY'S PUBLIC WORKS YARD IF DIRECTED BY CITY. SIGNS AND POSTS THAT AREN'T SALVAGED SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR.
6. CONTRACTOR TO PREPARE AND SUBMIT SIGNAGE PLAN DEPICTING EXACT LOCATIONS PROPOSED FOR ALL SIGNAGE FOR CITY APPROVAL PRIOR TO INSTALLATION.



CITY OF MIDLOTHIAN
VOL. 2420, PG. 1429
D.R.E.C.T.

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

PAVEMENT MARKINGS AND SIGNANGE - BEGIN TO STA 9+00

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER

C6.01

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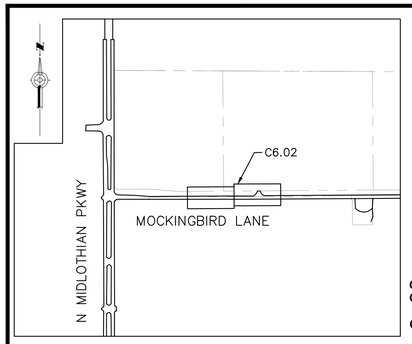

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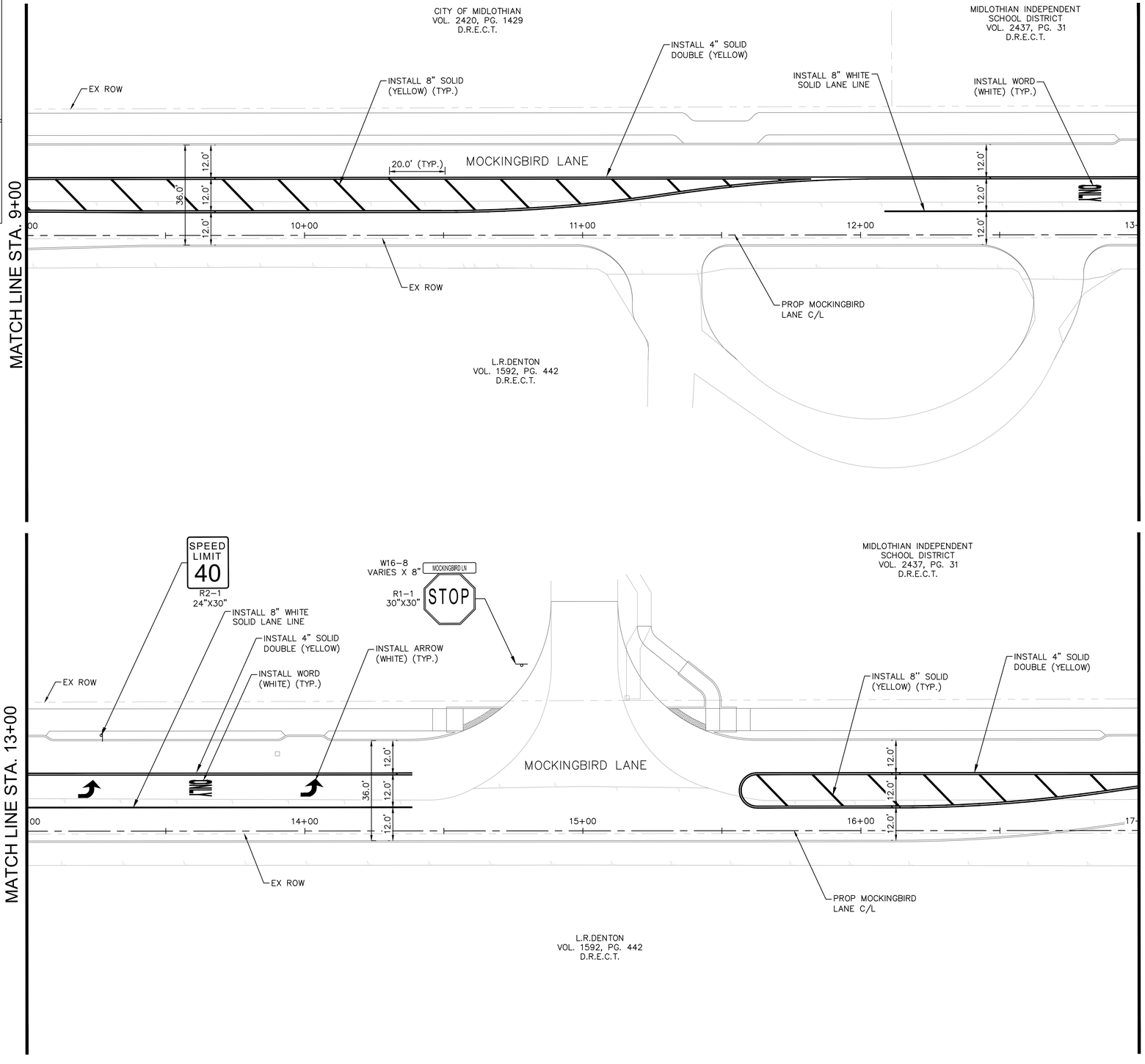

GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

NOTES:

1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
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Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

PAVEMENT MARKINGS
AND SIGNANGE - STA
9+00 TO STA 17+00

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER

C6.02

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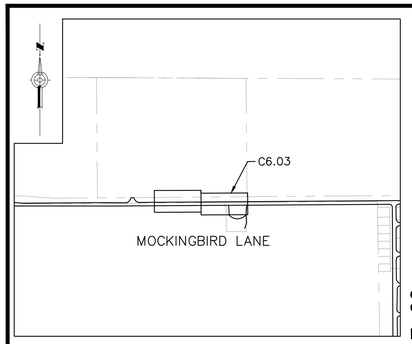
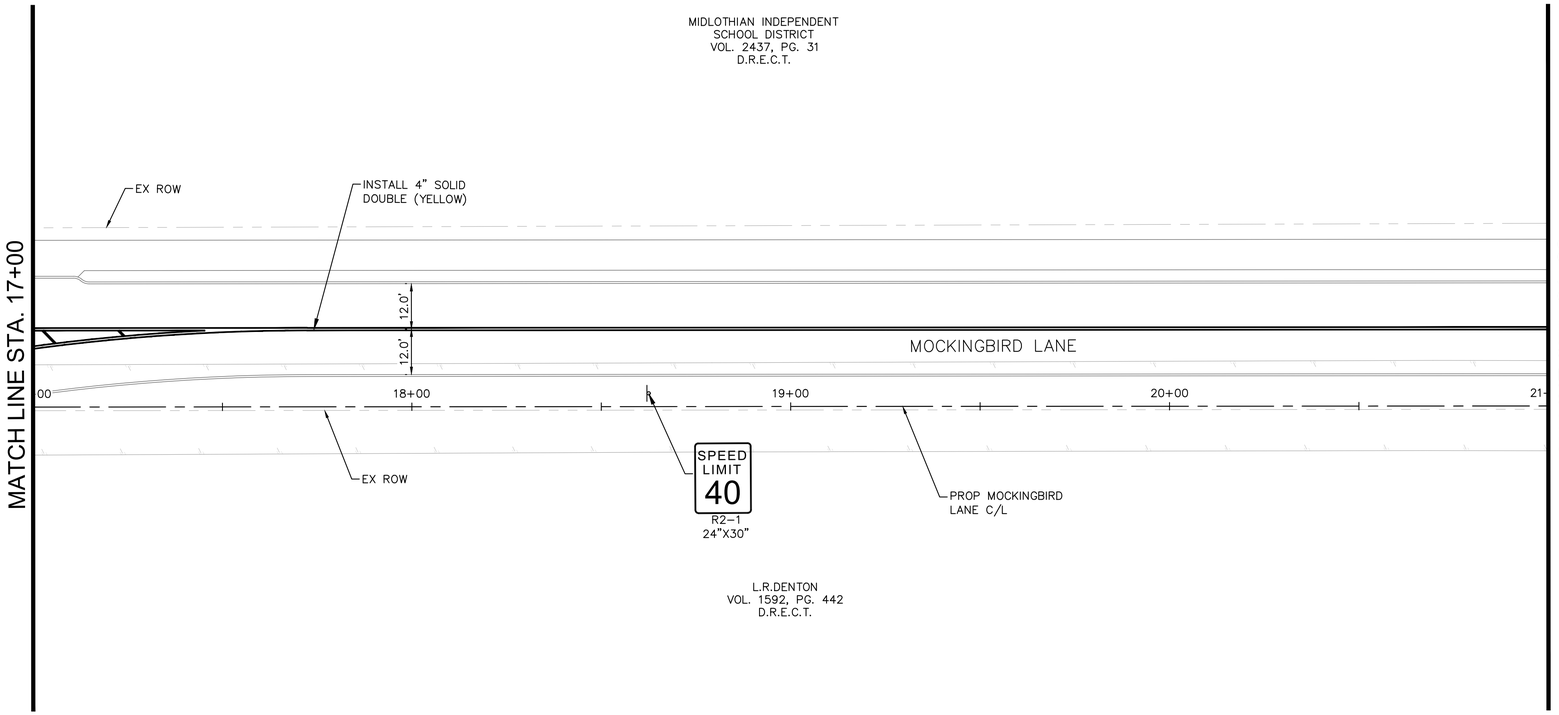
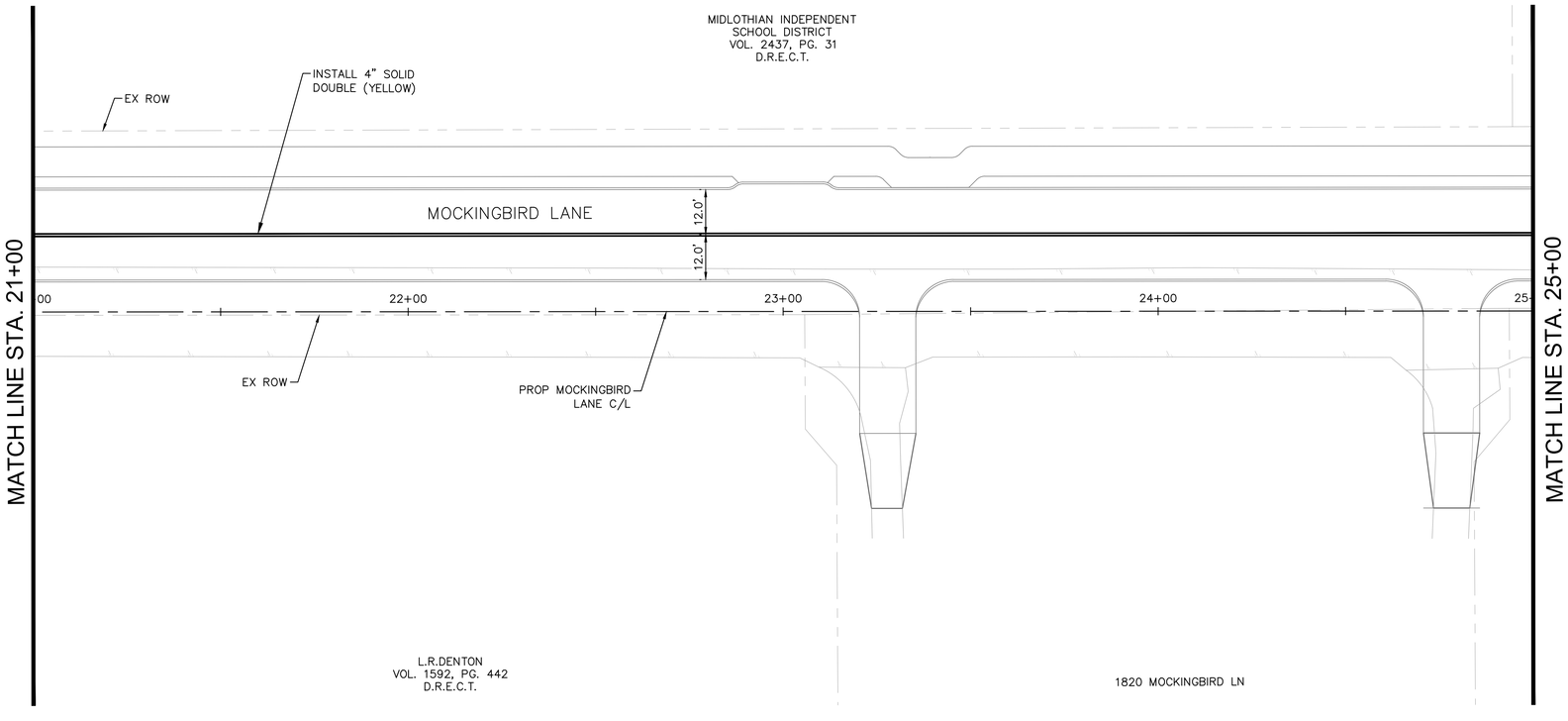


KEY MAP





GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

NOTES:

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Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026

STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

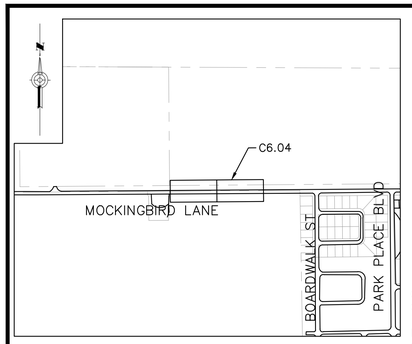
PAVEMENT MARKINGS
AND SIGNANGE - STA
17+00 TO STA 25+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

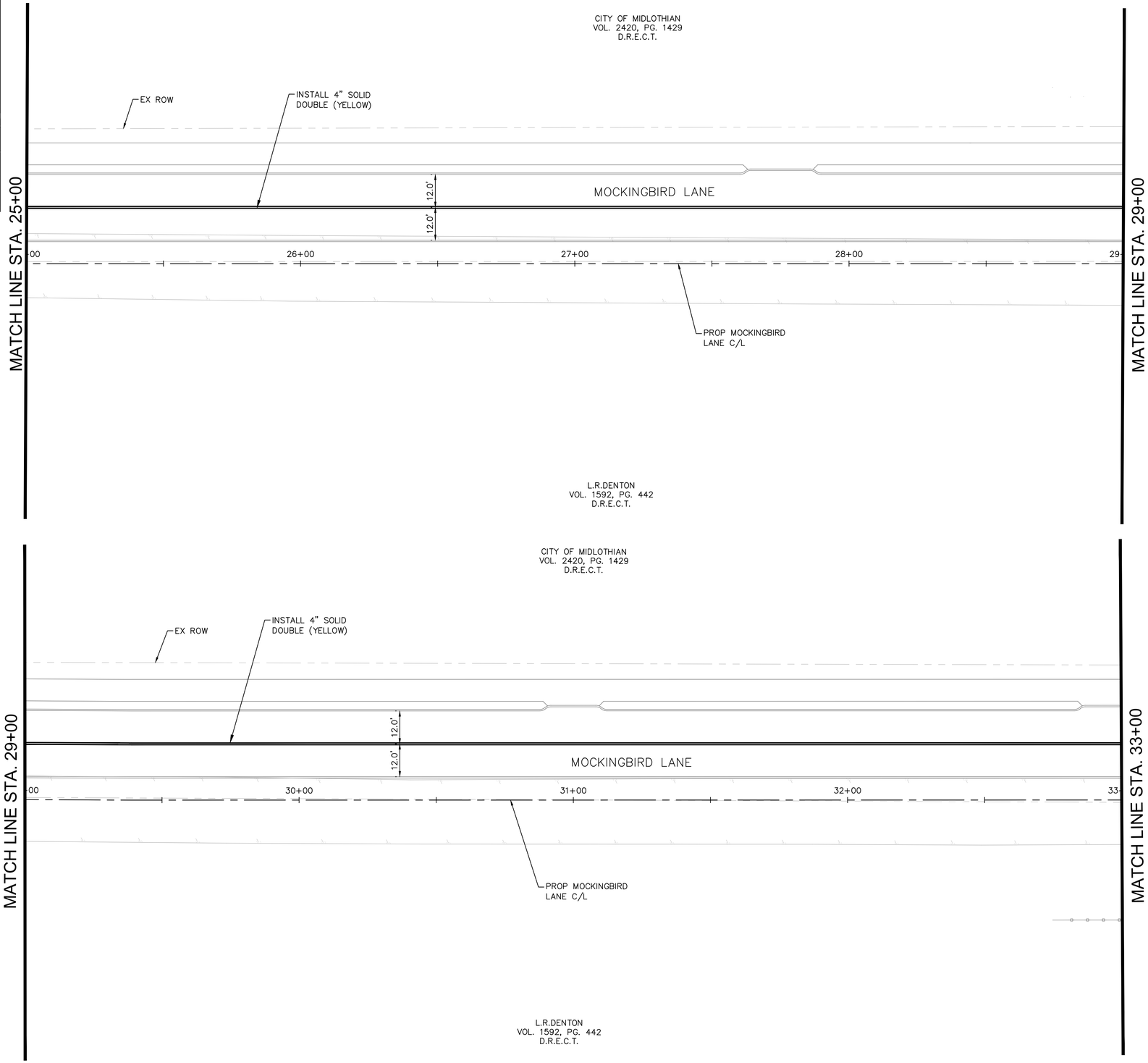
SHEET NUMBER

C6.03

Plotted, By: 2026-08-21 11:46:56, Salinas, Rene
Last Saved: 2026-08-21 10:00:35 (PAVEMENT MARKINGS AND SIGNANGE – STA 17+00 TO STA 25+00)
Filename: k:\tw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\pavement markings begin to sta 57+00.dwg



KEY MAP



GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

NOTES:

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Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

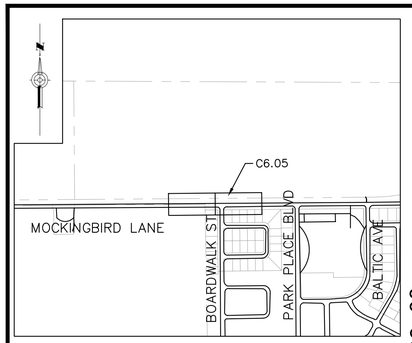
PAVEMENT MARKINGS AND SIGNANGE - STA 25+00 TO STA 33+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C6.04

2026-08-21 11:47:01, Salinas, Rene
2026-08-21 10:00:35 (PAVEMENT MARKINGS AND SIGNANGE - STA 25+00 TO STA 33+00)
Plotted, By:
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\pavement markings begin to sta 57+00.dwg
Filename:



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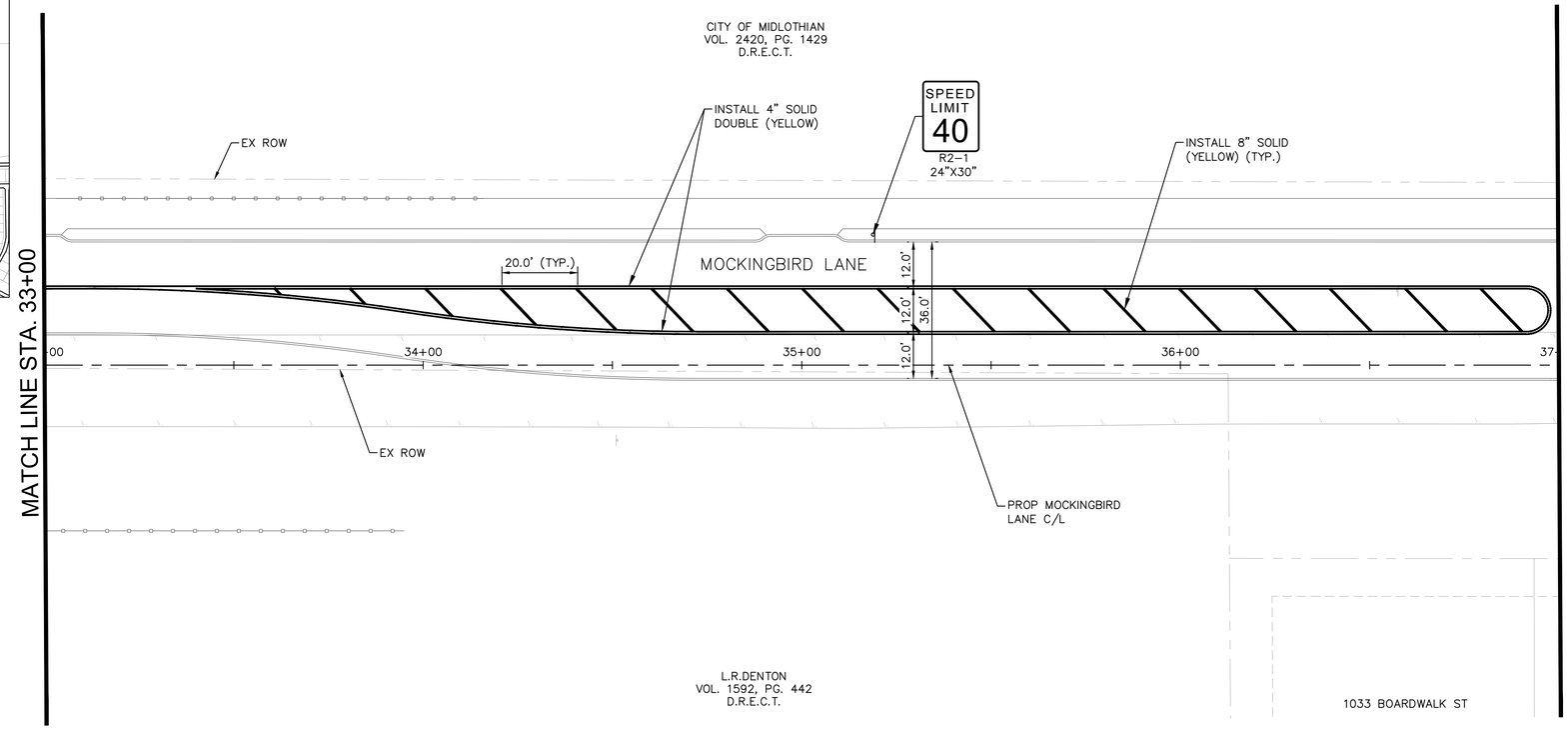

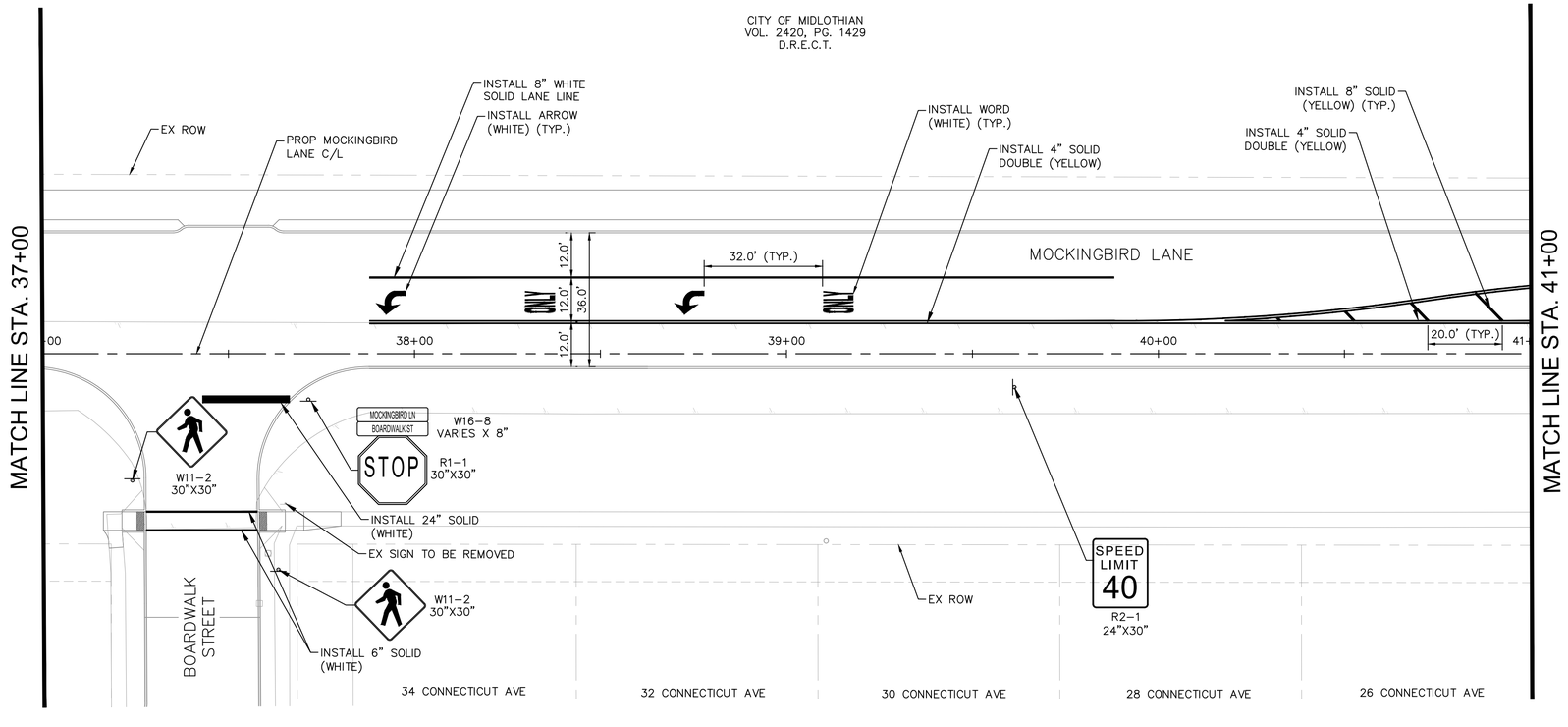

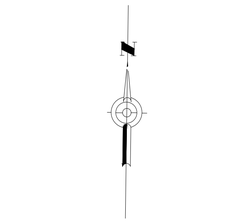

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

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Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

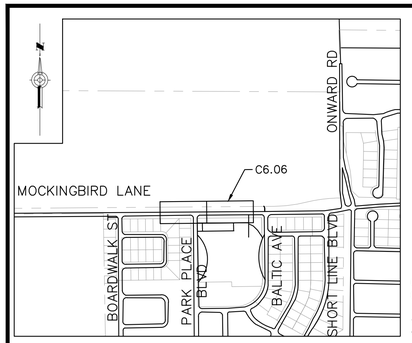
PAVEMENT MARKINGS
AND SIGNANGE - STA
33+00 TO STA 41+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

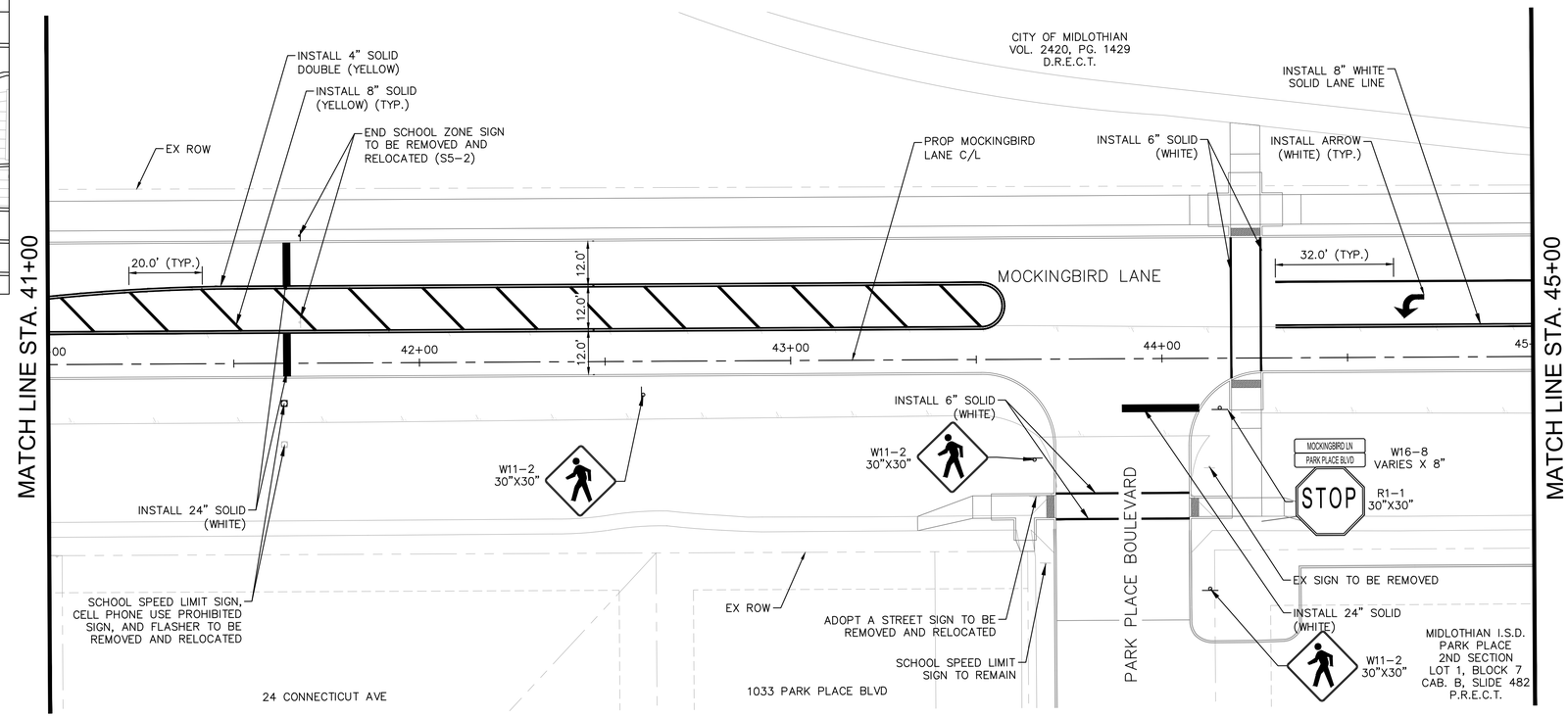
SHEET NUMBER

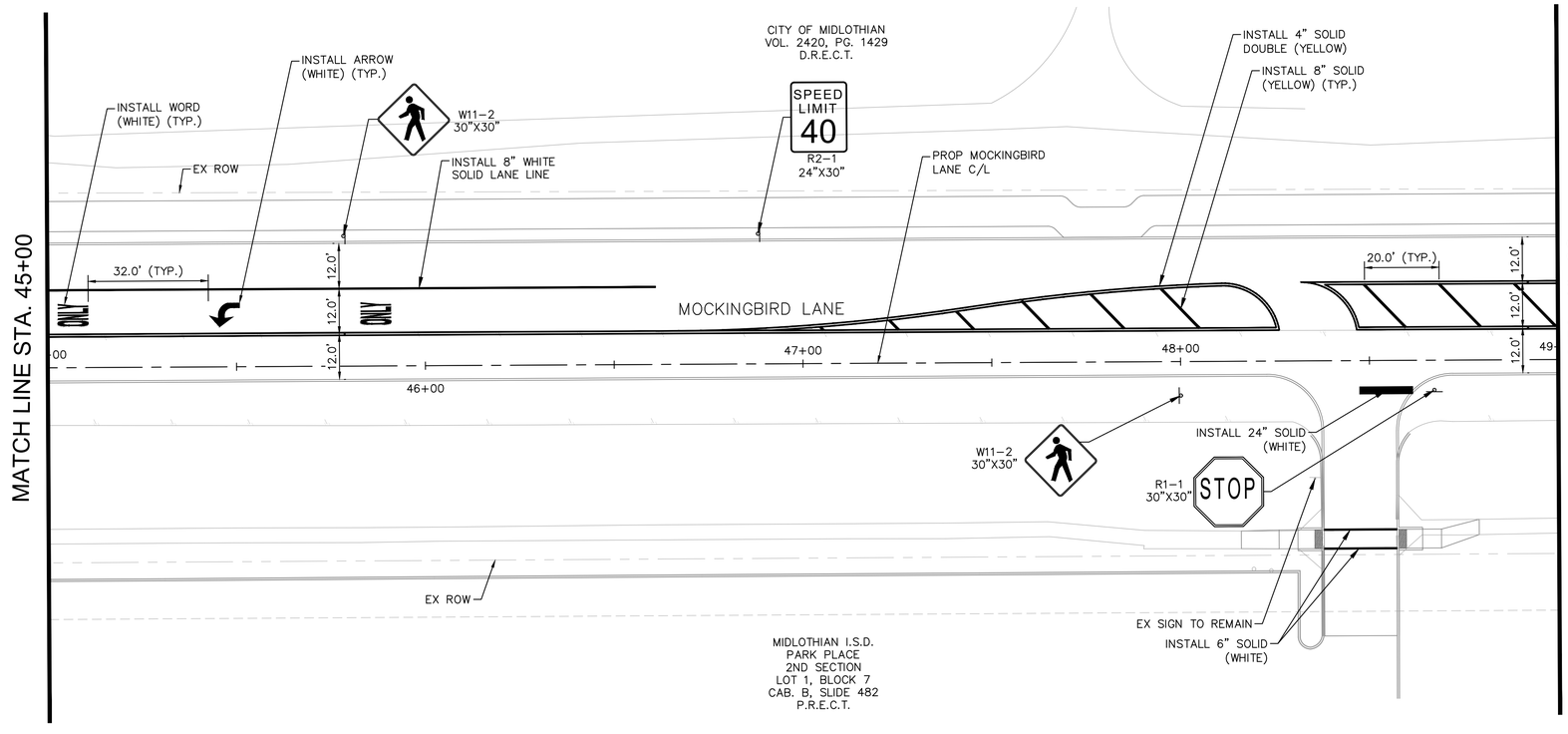
C6.05

Plotted, By: Solinas, Rene
Last Saved: 2026-08-21 11:47:06
Filename: k:\tw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\pavement markings begin to sta 57+00.dwg
2026-08-21 10:00:35 (PAVEMENT MARKINGS AND SIGNANGE – STA 33+00 TO STA 41+00)



KEY MAP





GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE: 1 inch = 20 ft.

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Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
MICKEY D. CHRISTIAN 98384 LICENSED PROFESSIONAL ENGINEER STATE OF TEXAS

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

PAVEMENT MARKINGS AND SIGNANGE - STA 41+00 TO STA 49+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C6.06

Plotted, By: Salinas, Rene - 2026-08-21 11:47:16
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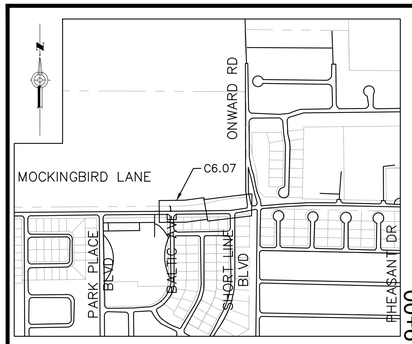
Filename: k:\tw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\pavement markings begin to sta 57+00.dwg



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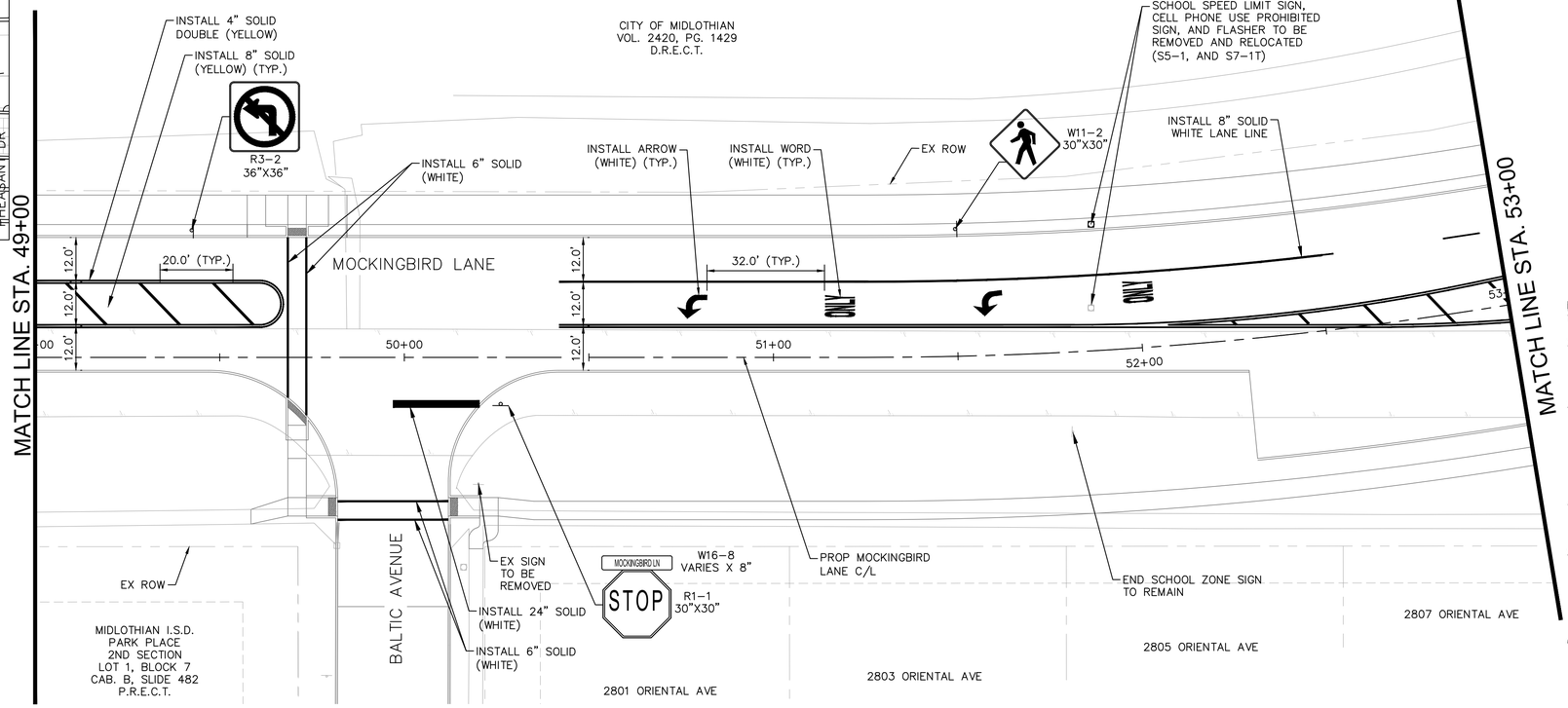

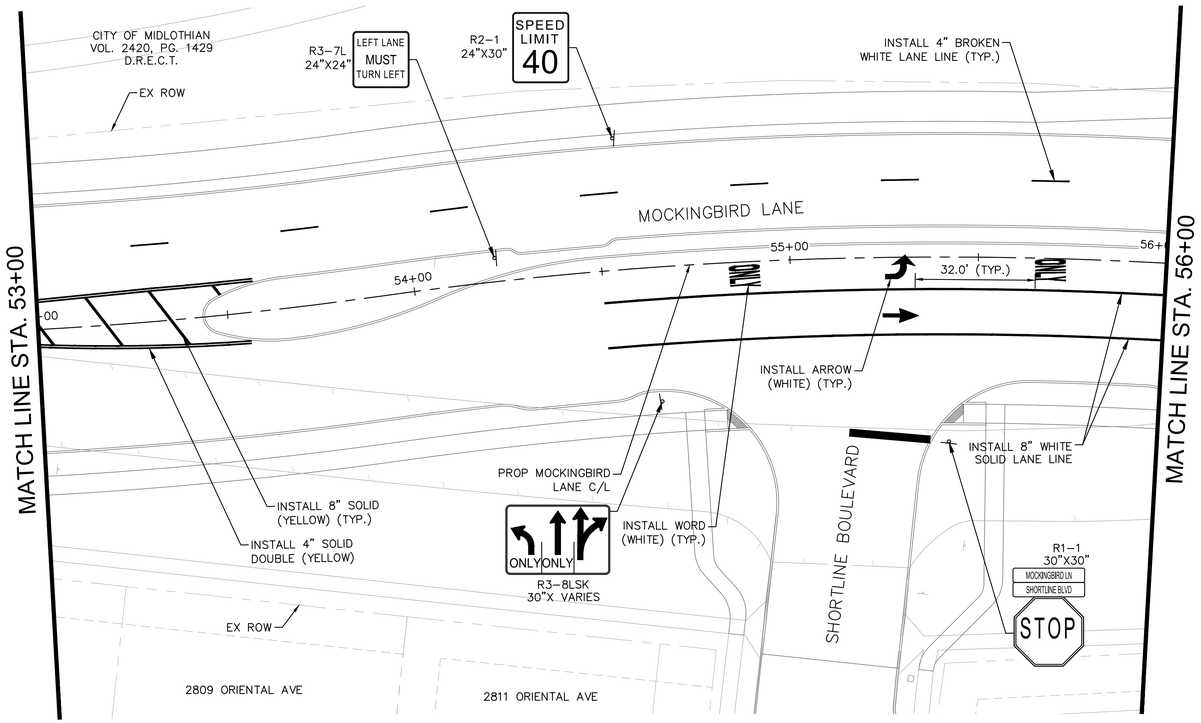

GRAPHIC SCALE

20 0 10 20 40

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No.	Revision	By	Date

8/21/2026
LICENSED PROFESSIONAL ENGINEER
STATE OF TEXAS
MISTY D. CHRISTIAN
98384

CITY OF MIDLOTHIAN MOCKINGBIRD LANE 2021 BOND PROJECT

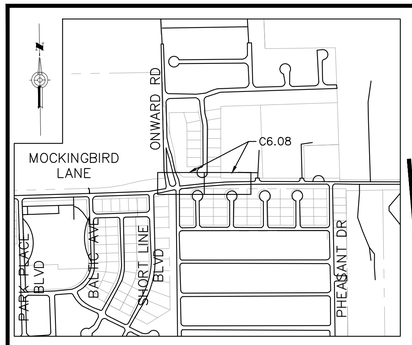
PAVEMENT MARKINGS AND SIGNANGE - STA 49+00 TO STA 56+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

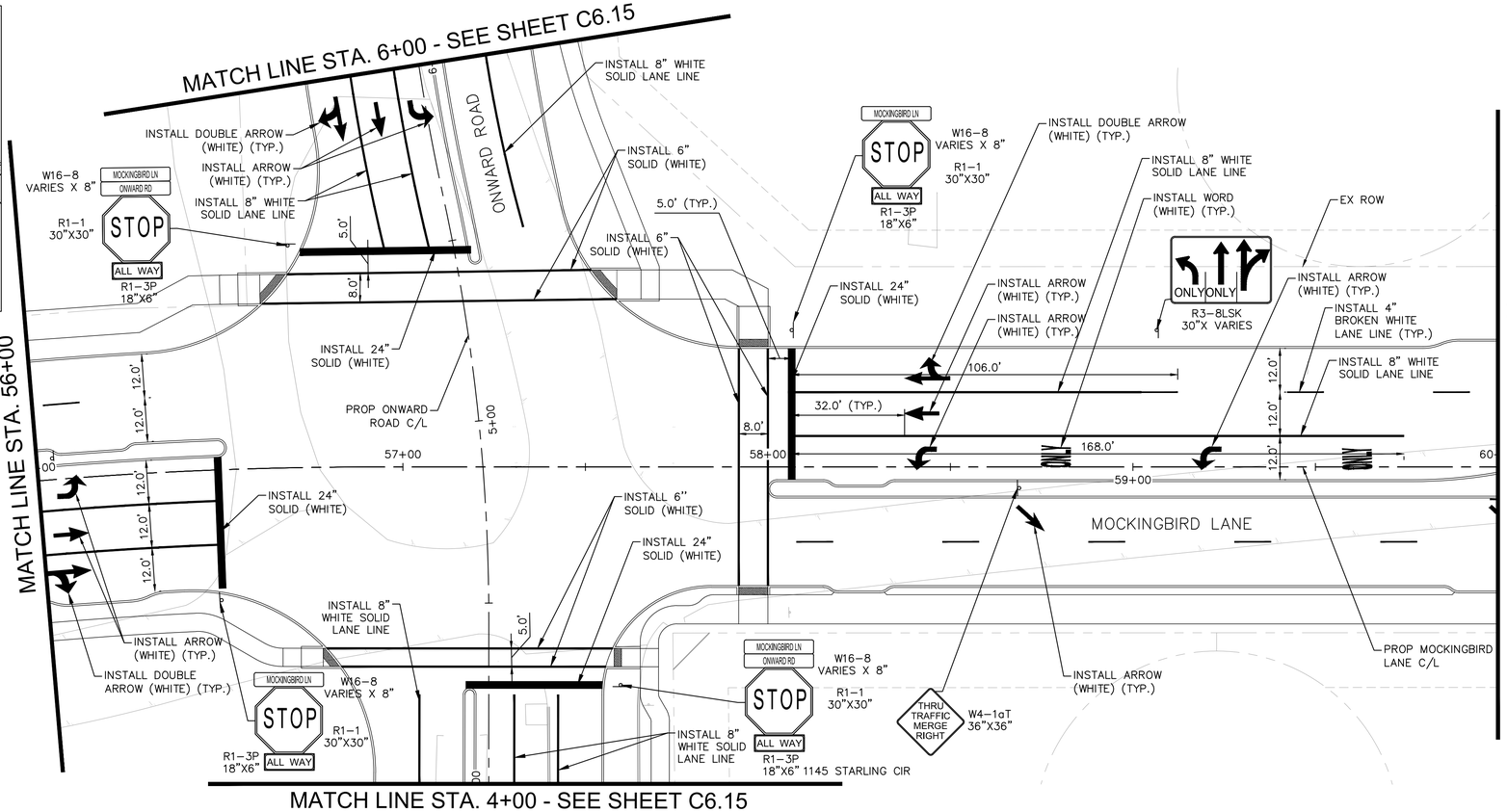
SHEET NUMBER

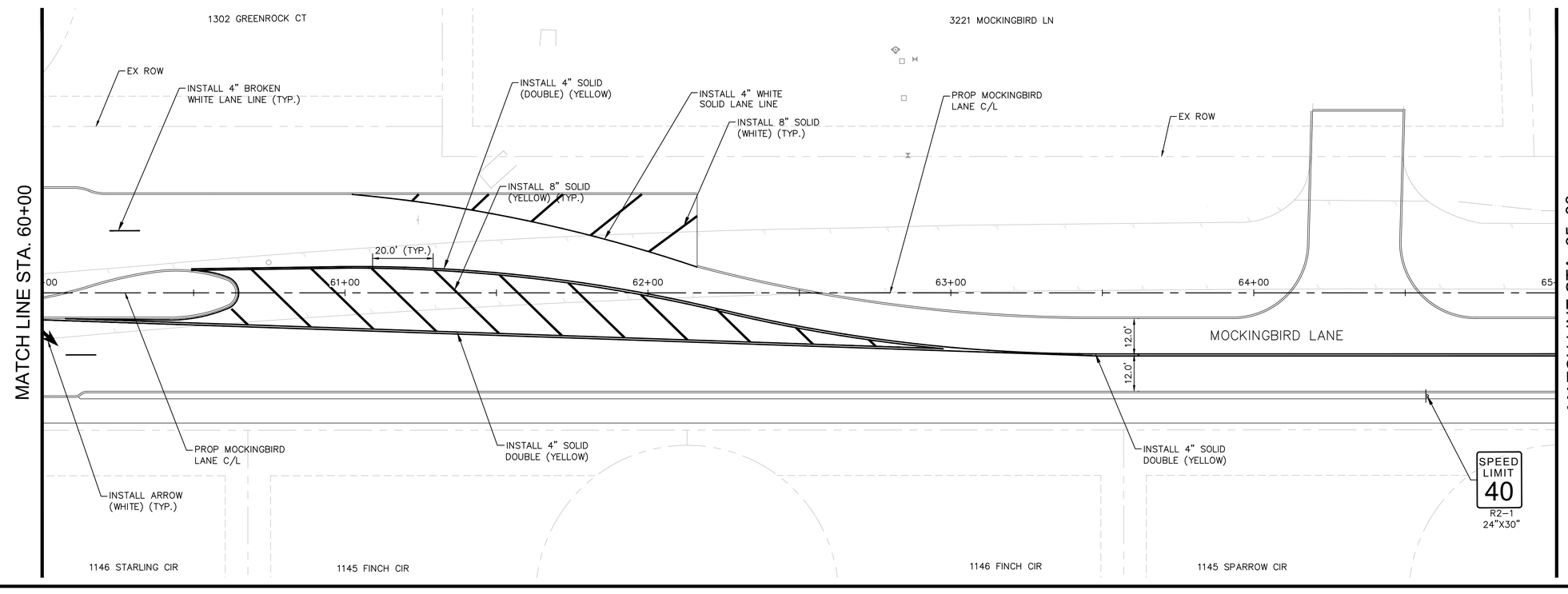
C6.07

Plotted By: 2026-08-21 11:47:21, Solings, Rene
Last Saved: 2026-08-21 10:00:35 (PAVEMENT MARKINGS AND SIGNANGE - STA 49+00 TO STA 56+00)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\pavement markings begin to sta 57+00.dwg



KEY MAP





GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
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No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MICKEY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

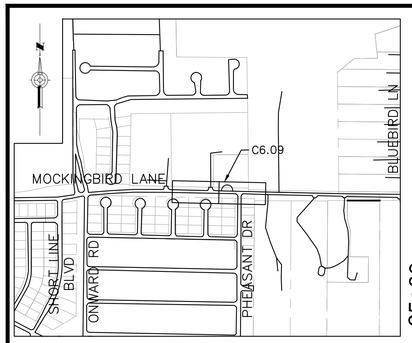
PAVEMENT MARKINGS AND SIGNANGE - STA 57+00 TO STA 65+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

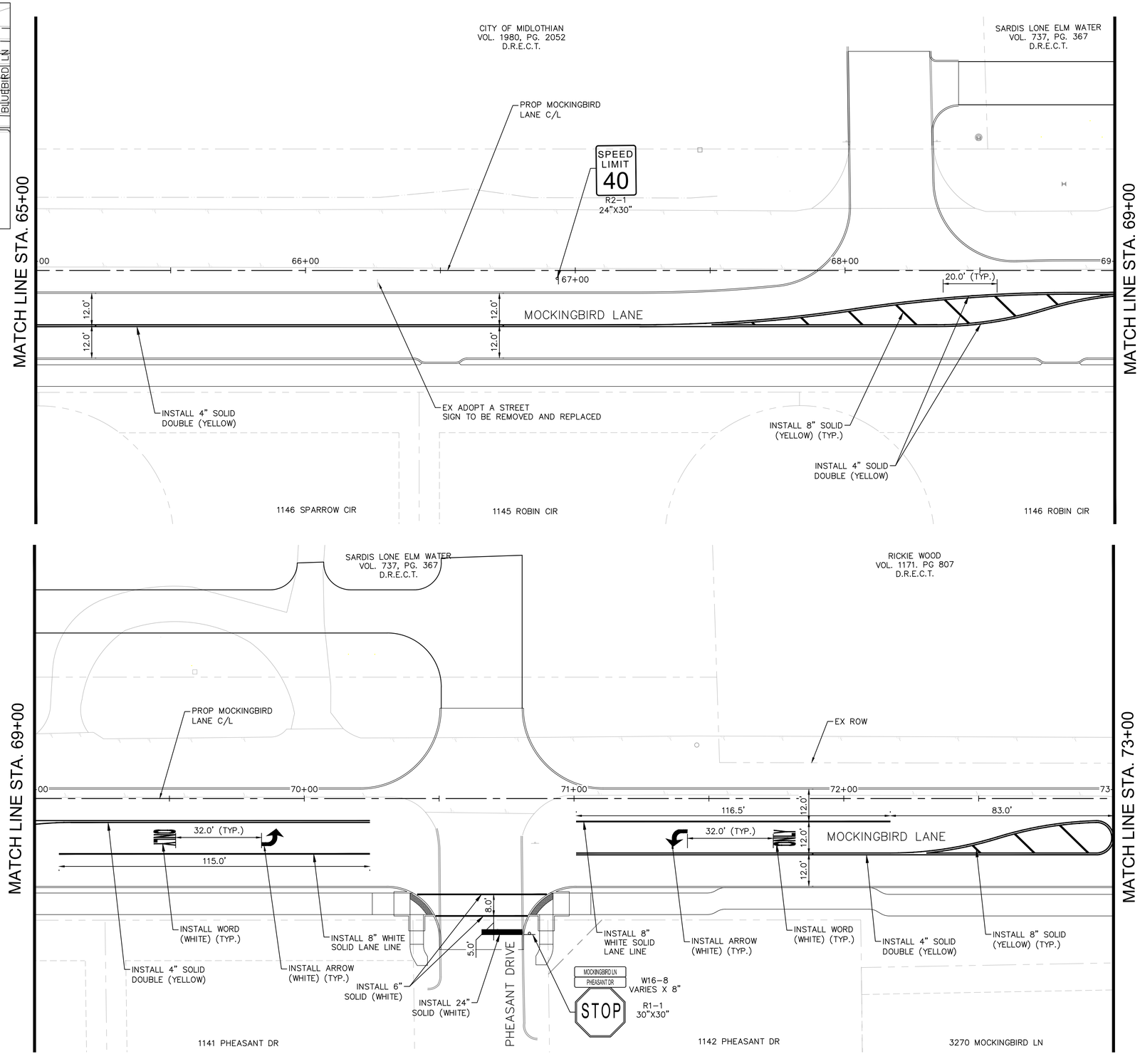
SHEET NUMBER

C6.08

Plotted, By: 2026-08-21 11:47:44, Salinas, Rene
Last Saved: 2026-08-21 10:17:37 (PAVEMENT MARKINGS AND SIGNANGE - STA 57+00 TO STA 65+00)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\pavement markings sta 57+00 to end.dwg



KEY MAP



GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

NOTES:

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No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

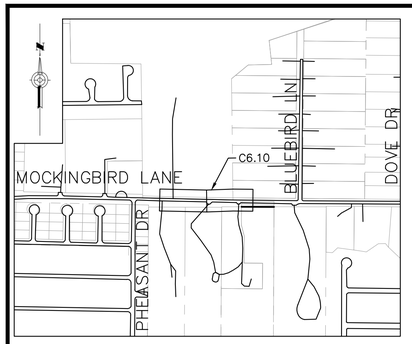
PAVEMENT MARKINGS AND SIGNANGE - STA 65+00 TO STA 73+00

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

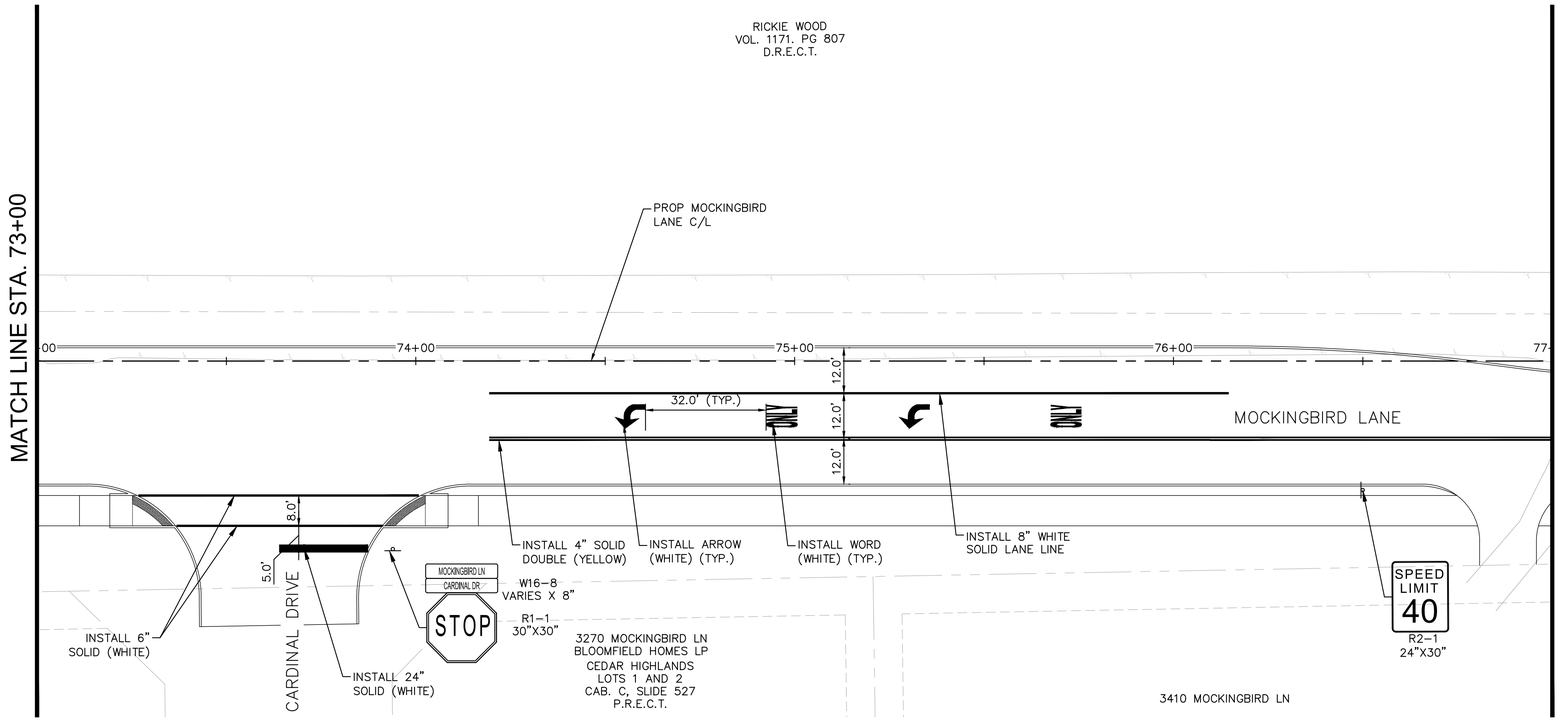
SHEET NUMBER

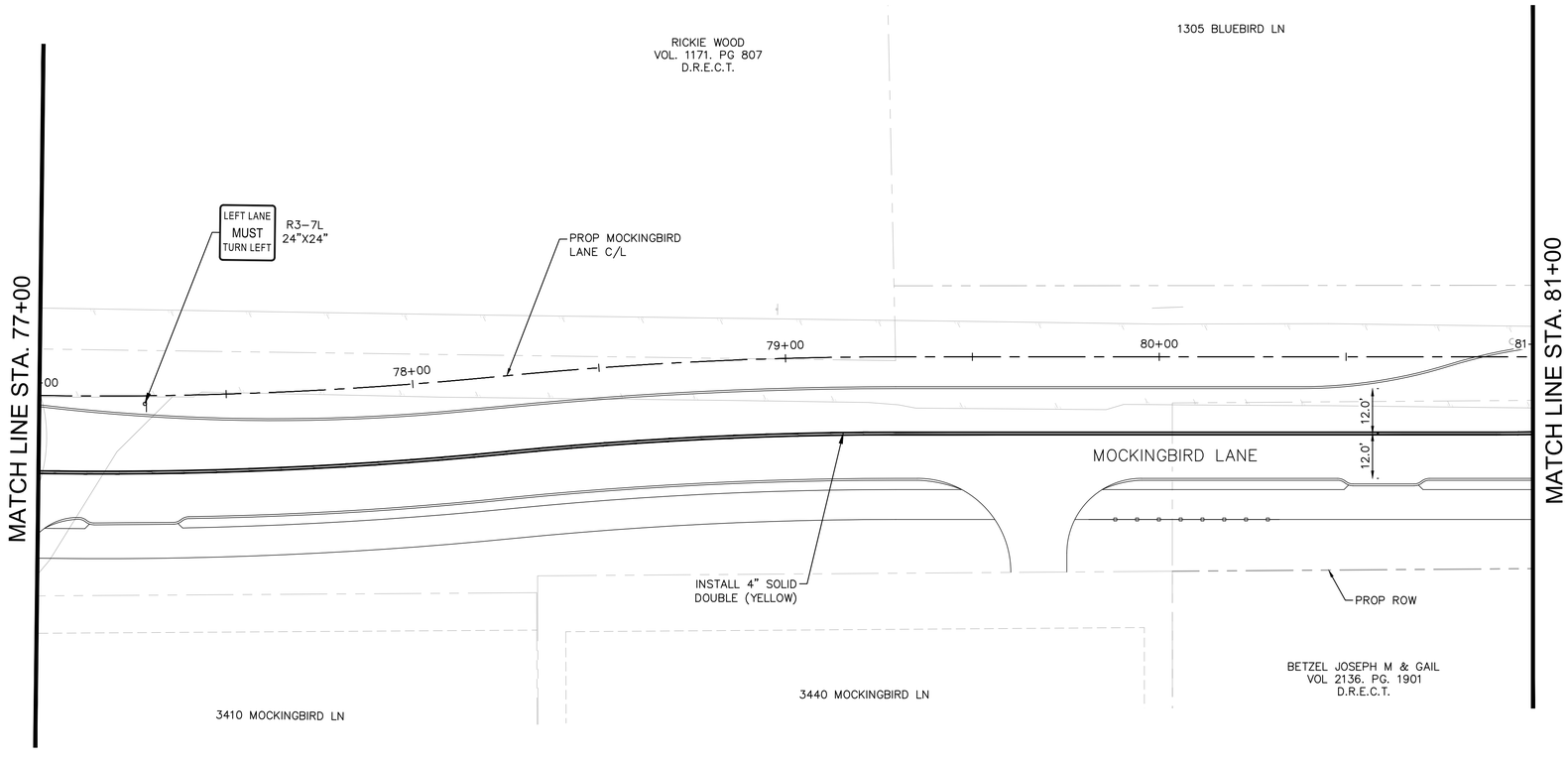
C6.09

Plotted By: 2026-08-21 11:47:55, Salinas, Rene
Last Saved: 2026-08-21 10:17:37 (PAVEMENT MARKINGS AND SIGNAGE – STA 65+00 TO STA 73+00)
Filename: k:\tw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\pavement markings sta 57+00 to end.dwg



KEY MAP





GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
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IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

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Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

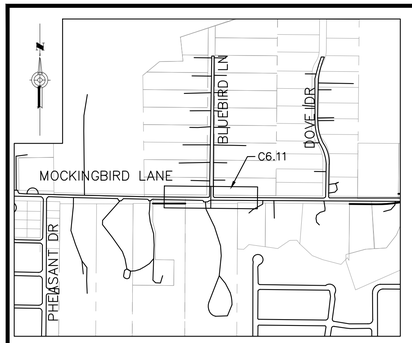
CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

PAVEMENT MARKINGS AND SIGNAGE - STA 73+00 TO STA 81+00

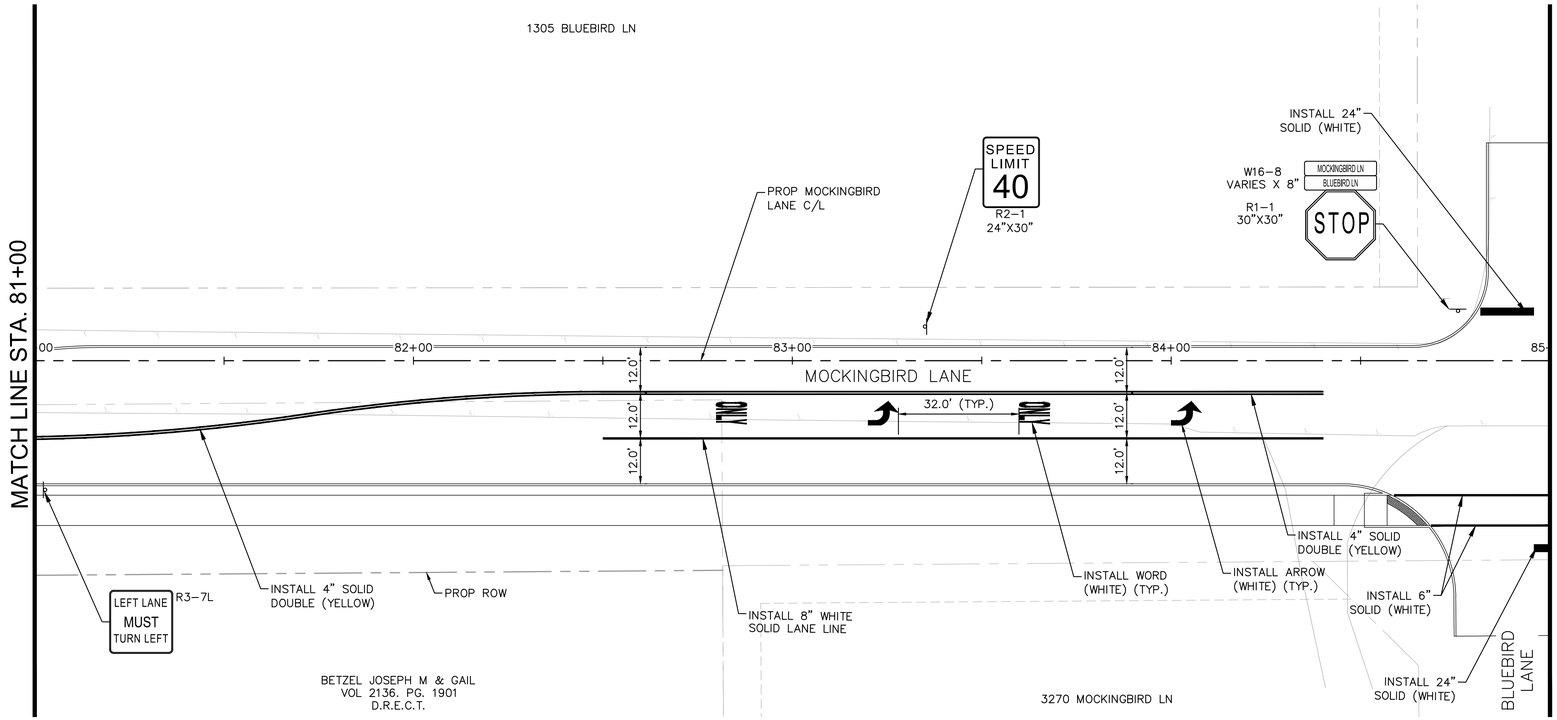
DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

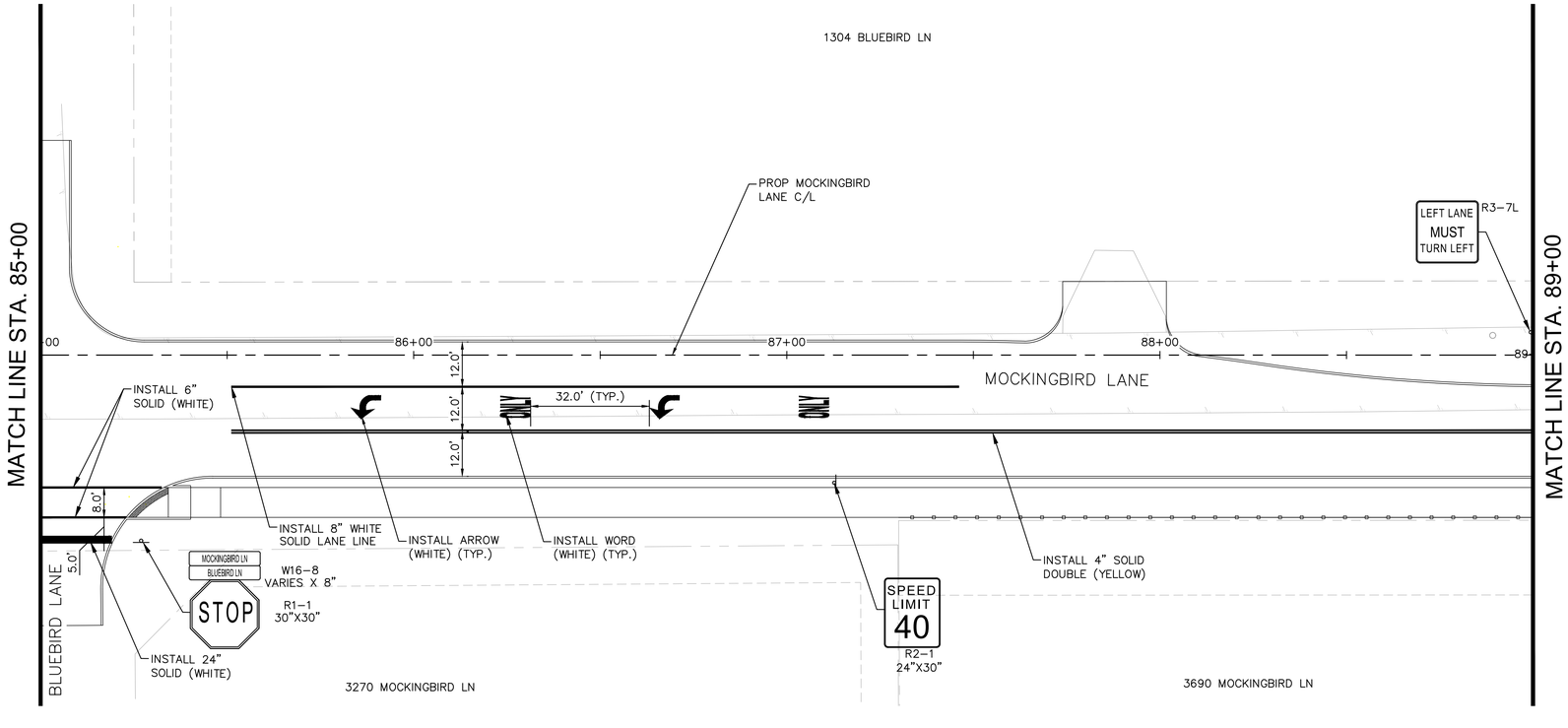
SHEET NUMBER
C6.10

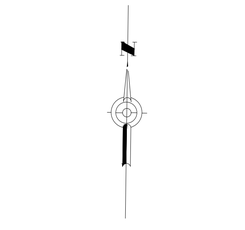
Plotted By: 2026-08-21 11:48:06, Salinas, Rene
Last Saved: 2026-08-21 10:17:37 (PAVEMENT MARKINGS AND SIGNAGE – STA 73+00 TO STA 81+00)
Filename: k:\tw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\pavement markings sta 57+00 to end.dwg



KEY MAP







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STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

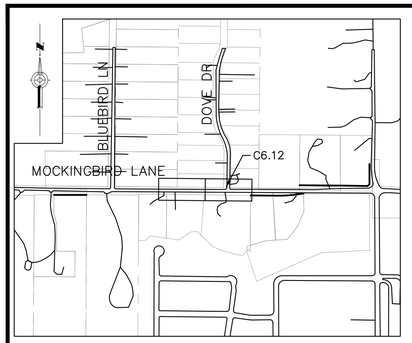
PAVEMENT MARKINGS AND SIGNANGE - STA 81+00 TO STA 89+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C6.11

Plotted, By: 2026-08-21 11:48:15, Salinas, Rene
Last Saved: 2026-08-21 10:17:37 (PAVEMENT MARKINGS AND SIGNAGE – STA 81+00 TO STA 89+00)
Filename: k:\tw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\pavement markings sta 57+00 to end.dwg



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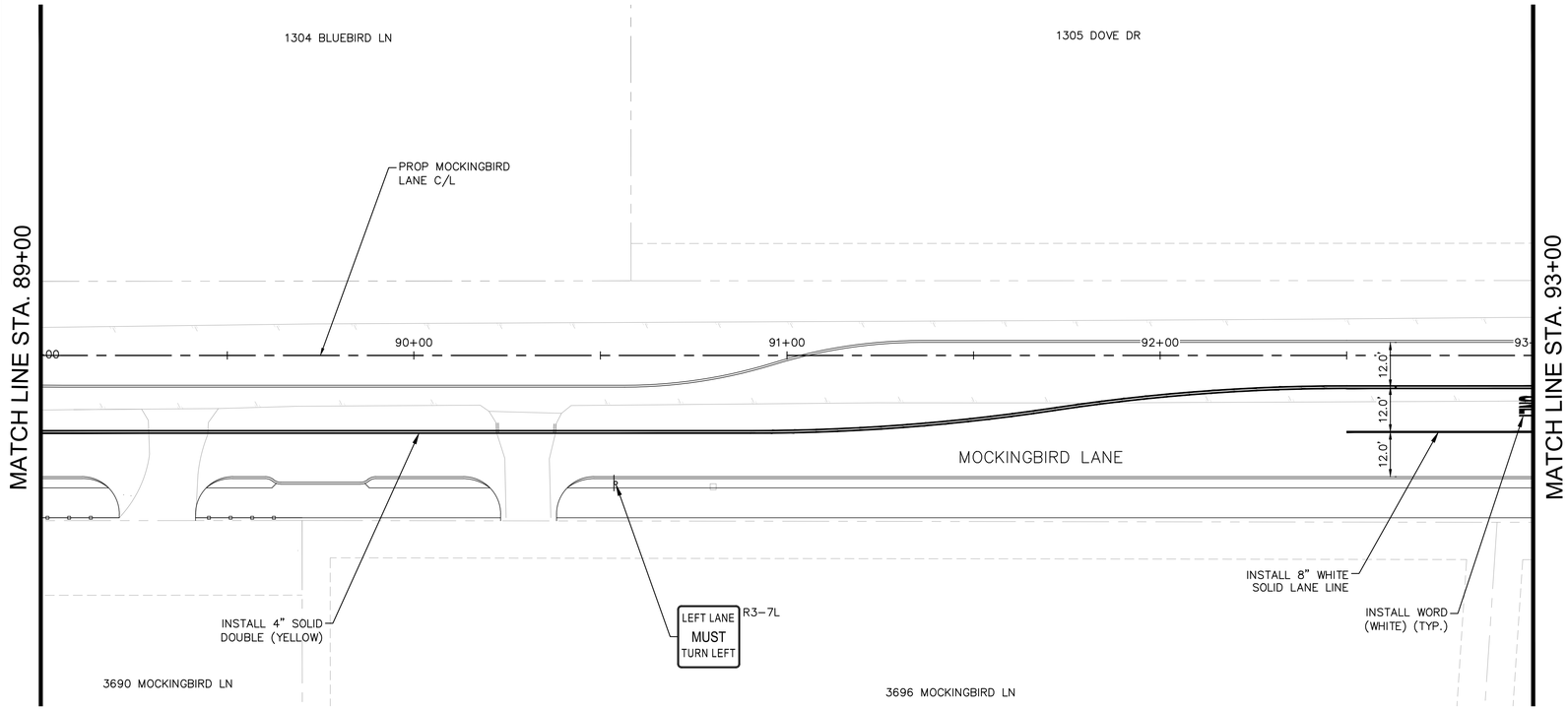

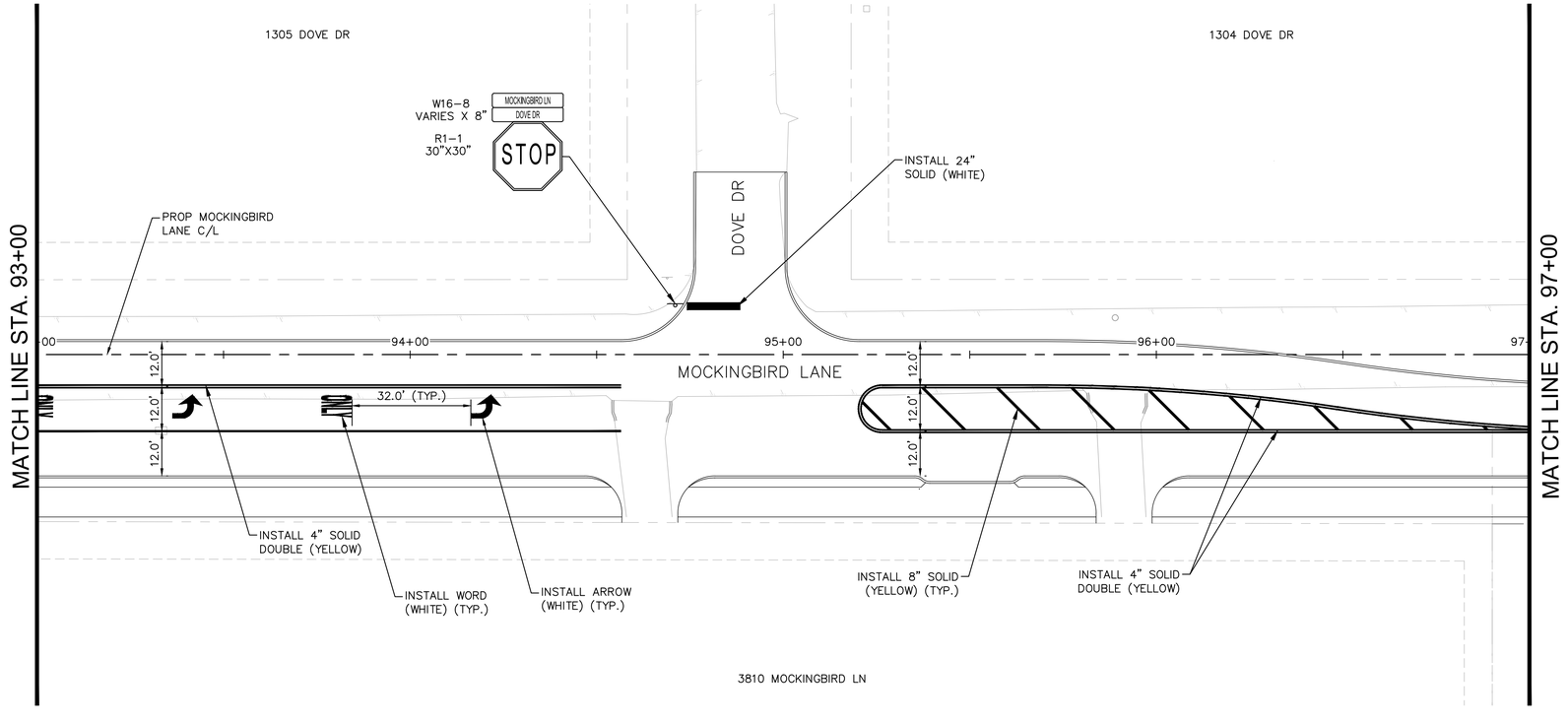

GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 40 FT

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STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL ENGINEER
8/21/2026

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

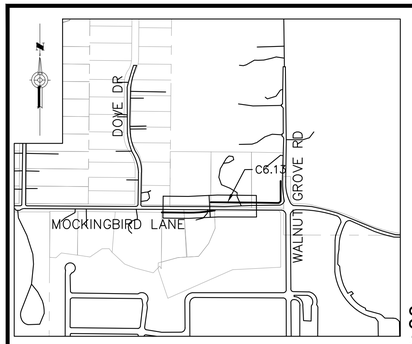
PAVEMENT MARKINGS AND SIGNANGE - STA 89+00 TO STA 97+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C6.12

Plotted, By: 2026-08-21 11:48:26, Salinas, Rene
Last Saved: 2026-08-21 10:17:37 (PAVEMENT MARKINGS AND SIGNANGE – STA 89+00 TO STA 97+00)
Filename: k:\tw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\pavement markings sta 57+00 to end.dwg



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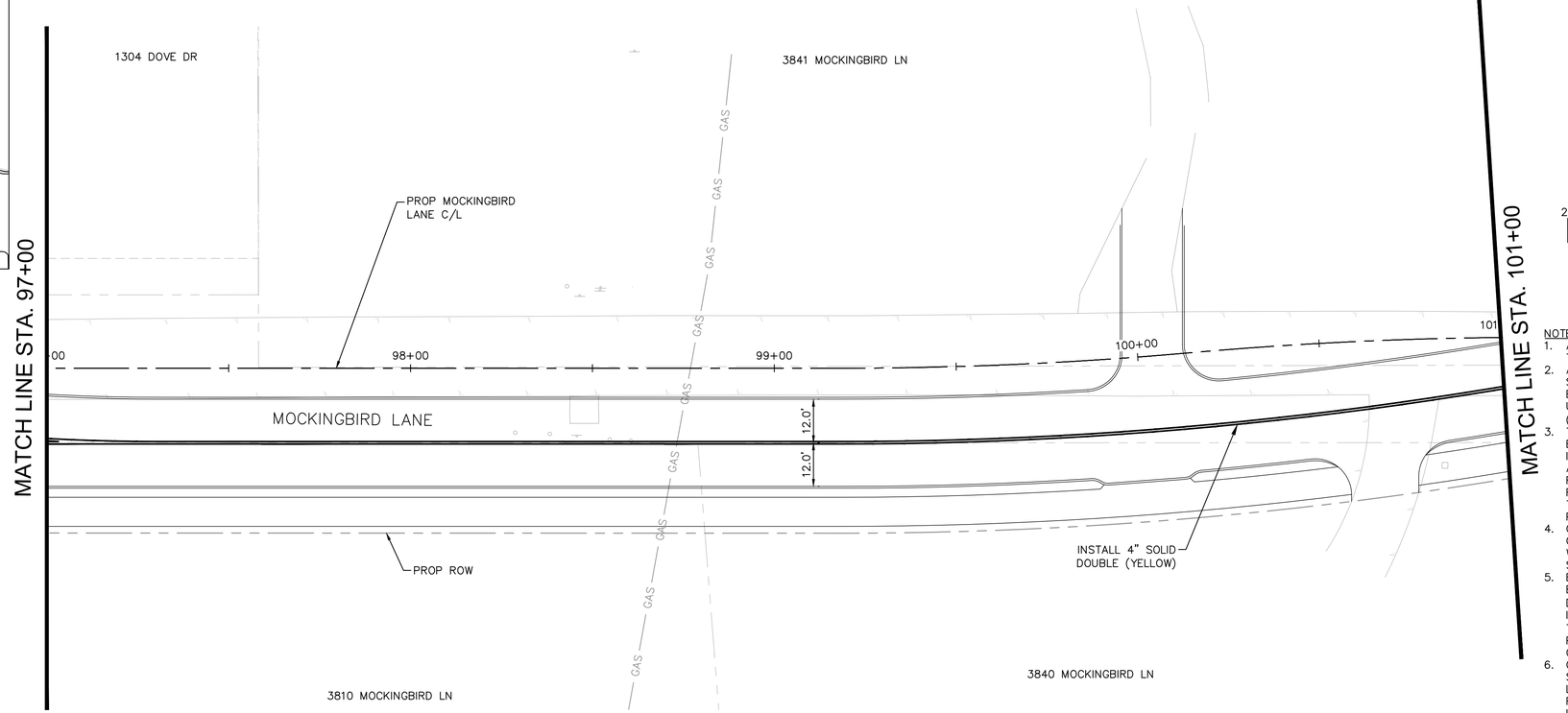

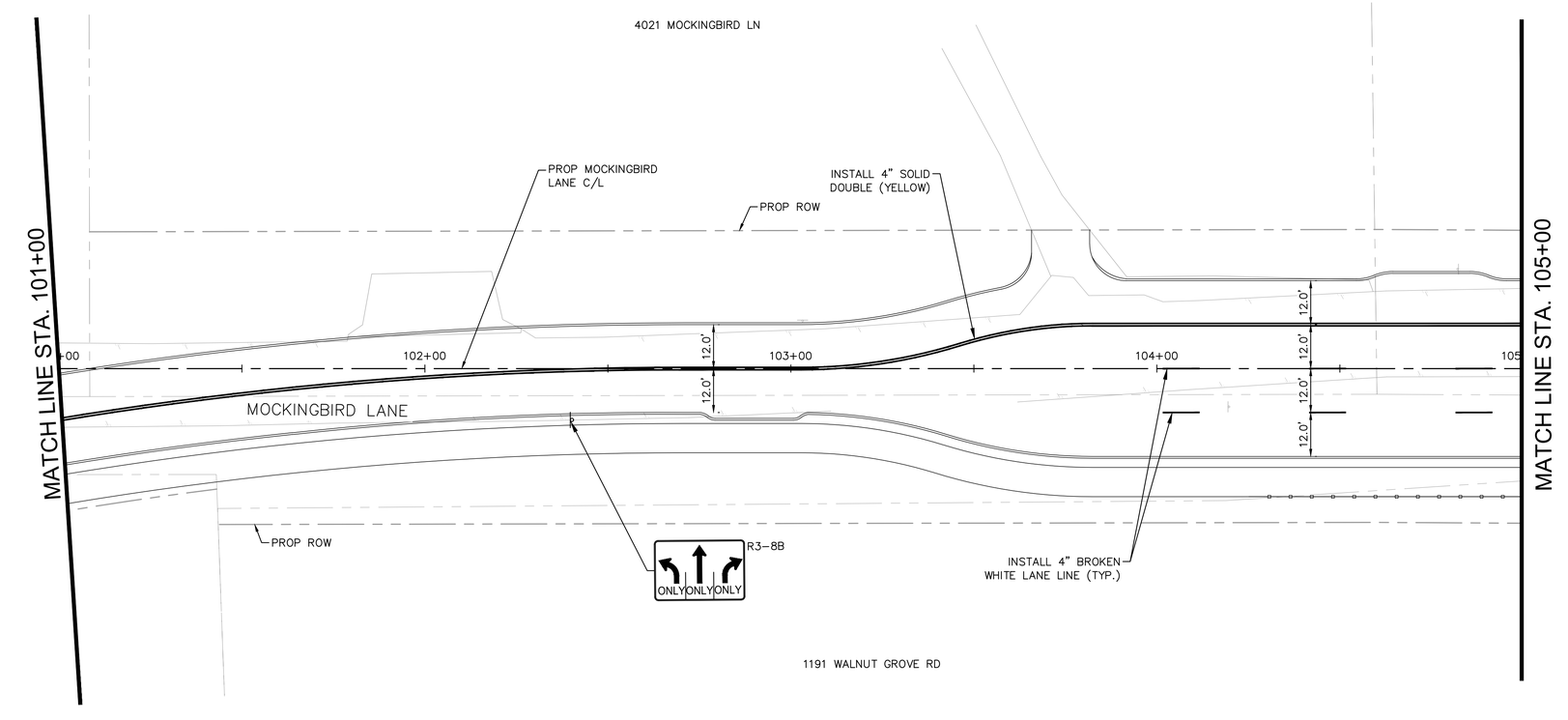

GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
1 inch = 20 ft.

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STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

PAVEMENT MARKINGS AND SIGNANGE - STA 97+00 TO 105+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C6.13

2026-08-21 11:48:35, Salinas, Rene
2026-08-21 10:17:37 (PAVEMENT MARKINGS AND SIGNANGE – STA 97+00 TO 105+00)
Plotted, By:
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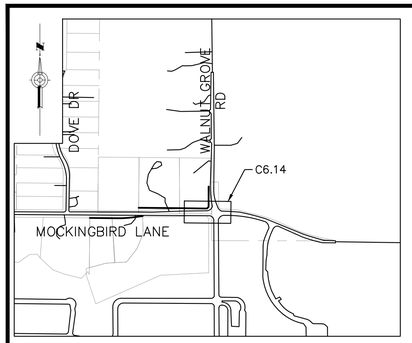

KEY MAP

GRAPHIC SCALE

20 0 10 20 40

ORIGINAL PLOTTED SCALE:
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IF PLAN SHEET IS 11" X 17",
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MATCH LINE STA. 105+00

MOCKINGBIRD LANE

1371 WALNUT GROVE RD

1191 WALNUT GROVE RD

1510 WALNUT GROVE RD

N WALNUT GROVE ROAD

SPEED LIMIT 40
R2-1 24"X30"

INSTALL 4" BROKEN WHITE LANE LINE (TYP.)

PROP ROW

INSTALL 4" SOLID DOUBLE (YELLOW)

EX SIGN TO BE REMOVED

W16-8 ARIES X 8"

MOCKINGBIRD LN
N WALNUT GROVE RD

STOP
ALL WAY
R1-1 30"X30"
R1-3P 18"X6"

R1-2 36"X36"
YIELD

INSTALL 8" WHITE SOLID LANE LINE

EX ROW

INSTALL ARROW (WHITE) (TYP.)

INSTALL 4" SOLID DOUBLE (YELLOW)

PROP MOCKINGBIRD LANE C/L

INSTALL 24" SOLID (WHITE)

INSTALL 8" WHITE SOLID LANE LINE

EX STOP SIGN TO BE REMOVED

INSTALL DOUBLE ARROW (WHITE) (TYP.)

INSTALL ARROW (WHITE) (TYP.)

INSTALL 8" WHITE SOLID LANE LINE

INSTALL 24" SOLID (WHITE)

INSTALL 4" SOLID DOUBLE (YELLOW)

EX STOP SIGN TO BE REMOVED

INSTALL WORD (WHITE) (TYP.)

INSTALL ARROW (WHITE) (TYP.)

INSTALL 8" WHITE SOLID LANE LINE

EX SIGN TO BE REMOVED

PROP N WALNUT GROVE ROAD C/L

INSTALL 6" SOLID (WHITE)

W4-1aT 36"X36" THRU TRAFFIC MERGE LEFT

EX SCHOOL SPEED LIMIT SIGN TO BE RELOCATED

PROP ROW

INSTALL 8" WHITE SOLID LANE LINE

INSTALL DOUBLE ARROW (WHITE) (TYP.)

INSTALL ARROW (WHITE) (TYP.)

CITY OF MIDLOTHIAN
R.O.W. DEED
VOL. 1235, PG. 1688
D.R.E.C.T.

EX ROW

INSTALL ARROW (WHITE) (TYP.)

INSTALL 4" SOLID DOUBLE (YELLOW)

EX SPEED LIMIT SIGN TO BE RELOCATED

32.0' (TYP.)

12.0'

8.0'

5.0'

105+00 106+00 107+00 108+00 109+00 110+00 110+50

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

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No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
KRISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

PAVEMENT MARKINGS AND SIGNANGE - STA 105+00 TO END

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER

C6.14

Plotted By: 2026-08-21 11:48:42, Salinas, Rene
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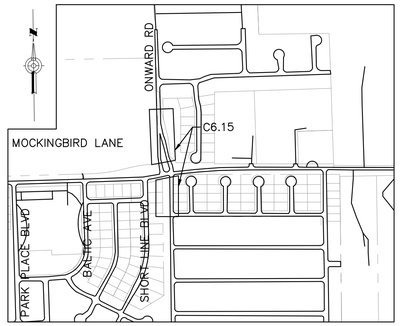
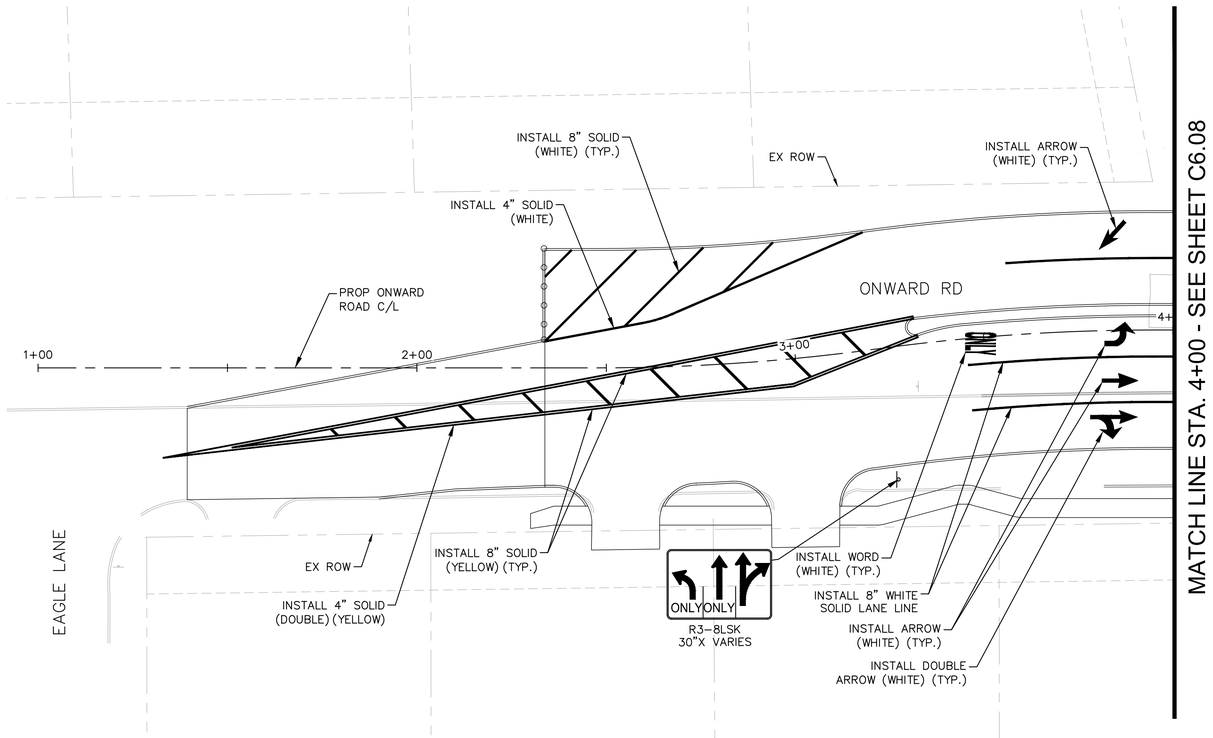
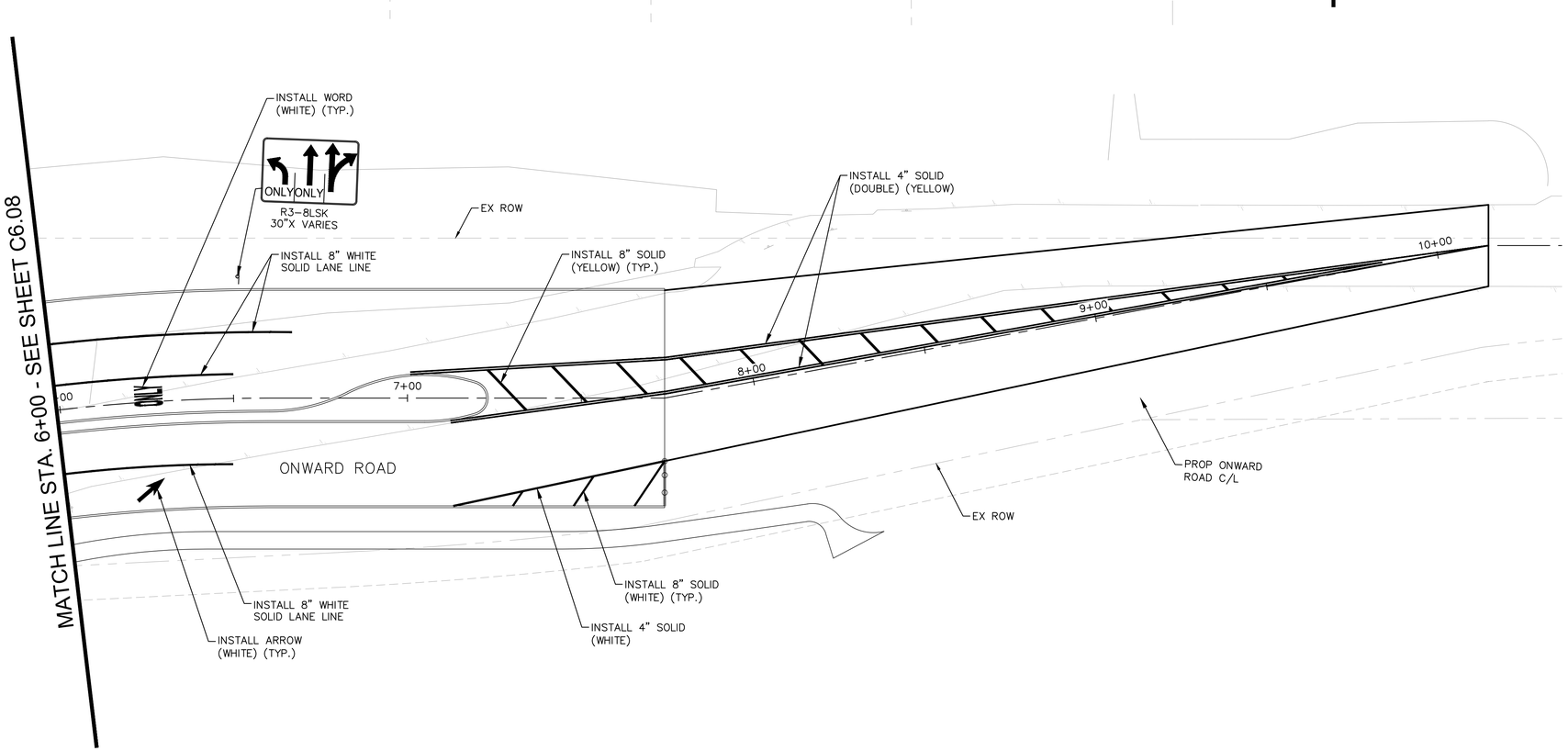


KEY MAP





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CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

PAVEMENT MARKINGS AND SIGNANGE - ONWARD RD

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C6.15

2026-08-21 11:48:55, Solinas, Rene
2026-08-21 10:17:37 (PAVEMENT MARKINGS AND SIGNANGE - ONWARD RD)
Plotted, By:
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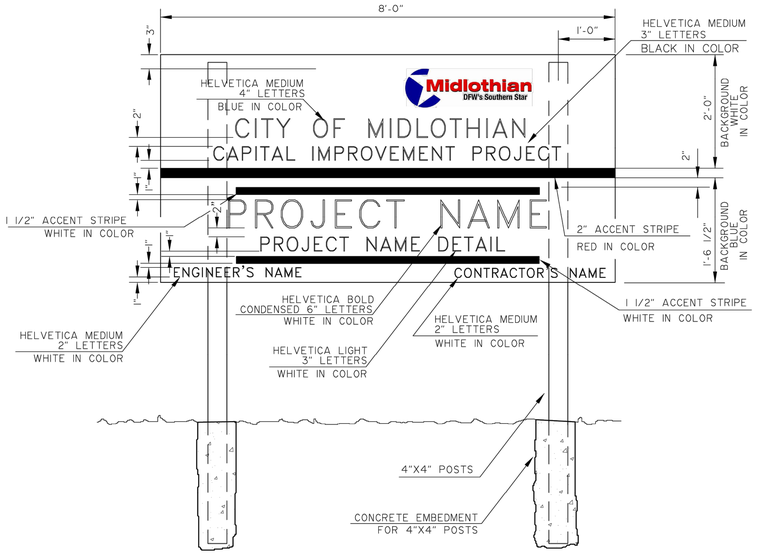
Filename:

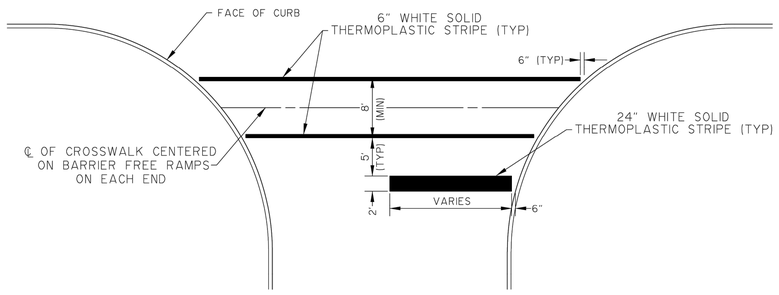


NOTES:

1. SIGN SHALL BE MOUNTED ON TWO (2) 4"X4"X8'-0" LONG TIMBER POSTS.
2. TIMBER POSTS ARE TO BE BURIED A MINIMUM OF THREE (3) FEET IN THE GROUND WITH CONCRETE ENCASEMENT FOR SUPPORT ANCHORAGE OR ATTACHED TO A MOVEABLE SKID BASE.
3. SIGN SHALL BE MOUNTED PLUMB AND LEVEL TWO (2) FEET CLEAR ABOVE GRADE.
4. A MINIMUM OF TWO (2) SIGNS WILL BE REQUIRED FOR EACH PROJECT UNLESS OTHERWISE STATED ON THE PROJECT DRAWINGS.
5. ALL COLORS SHALL MATCH CITY ENGINEER'S COLOR DRAWING.

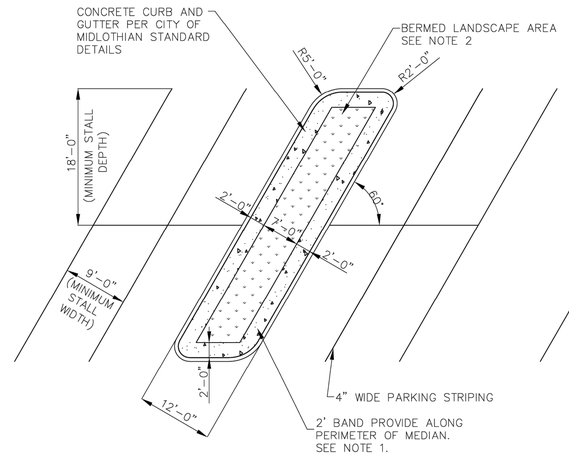
1 CAPITAL IMPROVEMENTS PROJECT SIGN

N.T.S.

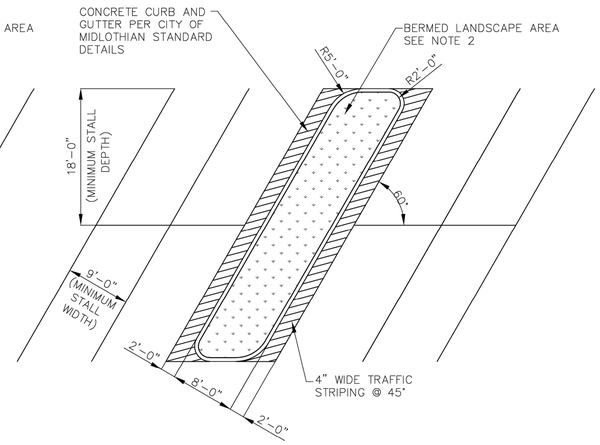


3 TYPICAL CROSSWALK & STOP BAR DETAIL

N.T.S.



MEDIAN WITH 2' PERIMETER BAND



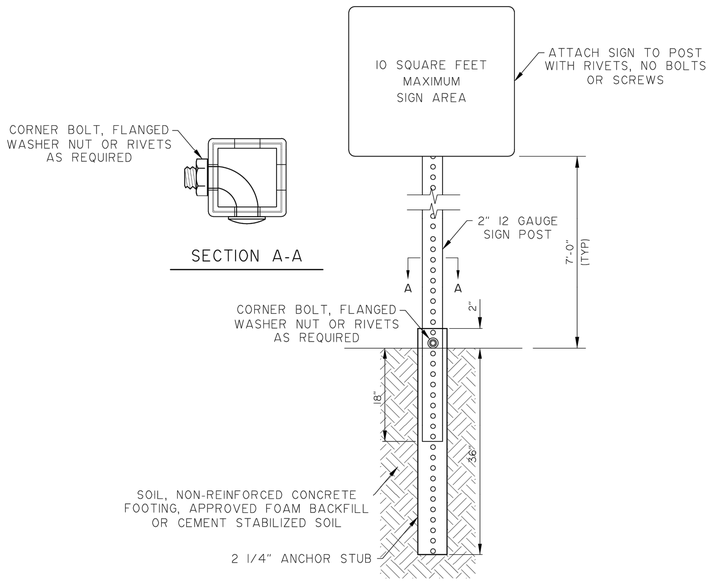
MEDIAN WITH 2' TRAFFIC STRIPING

NOTES:

1. 2' PERIMETER BAND TO BE CONSTRUCTED WITH 4" REINFORCED CONCRETE, OR DECOMPOSED GRANITE ON COMPACTED BASE WITH 20 mm WEED BARRIER.
2. MEDIAN LANDSCAPE AREAS SHALL MAINTAIN FULL COVERAGE WITH LIVING LANDSCAPE MATERIAL. BERMS SHALL BE CONSTRUCTED TO PROVIDE AN ELEVATION CHANGE OF ½"-2" FOR EVERY 1' OF LANDSCAPE AREA WIDTH.

2 TYPICAL PARKING LAYOUTS

N.T.S.



SECTION A-A

4 PERFORATED SQUARE METAL TUBING (TYPE U)

N.T.S.

SIGNAGE AND PAVEMENT MARKING NOTES:

1. ALL REGULATORY AND STREET SIGNS, TRAFFIC CONTROL DEVICES AND PAVEMENT MARKINGS SHALL CONFORM TO THE FUNDAMENTAL USE AND DESIGN REQUIREMENTS SET FORTH IN THE LATEST VERSION OF THE TEXAS MUTCD.
2. STREET NAME SIGNS SHALL CONFORM TO CITY REQUIREMENTS RELATING TO THE SIGN BLADE AND LETTERING HEIGHTS AND TYPES, COLOR SCHEME, AND BLOCK DESIGNATIONS.
3. PAVEMENT MARKINGS SHALL COMPLY WITH THE LATEST VERSION OF TXDOT'S "STANDARD SPECIFICATIONS FOR CONSTRUCTION AND MAINTENANCE OF HIGHWAYS, STREETS AND BRIDGES." MARKINGS SHALL BE THERMOPLASTICS (TYPE I MARKING MATERIALS WITH TYPE II MARKING AS A SEALER FOR CONCRETE ROADS AND TYPE III DROP-ON GLASS BEADS). UNLESS OTHERWISE PERMITTED BY THE CITY, IF TRAFFIC PAINT IS PERMITTED, IT SHALL CONSIST OF TYPE II MARKING MATERIALS WITH TYPE III DROP-ON GLASS BEADS.

NOTE: THIS IS SHT. SD-8 OF THE STANDARD CONSTRUCTION DETAILS, ORDINANCE NO. 2013-51 EFFECTIVE DATE: JANUARY 1, 2014

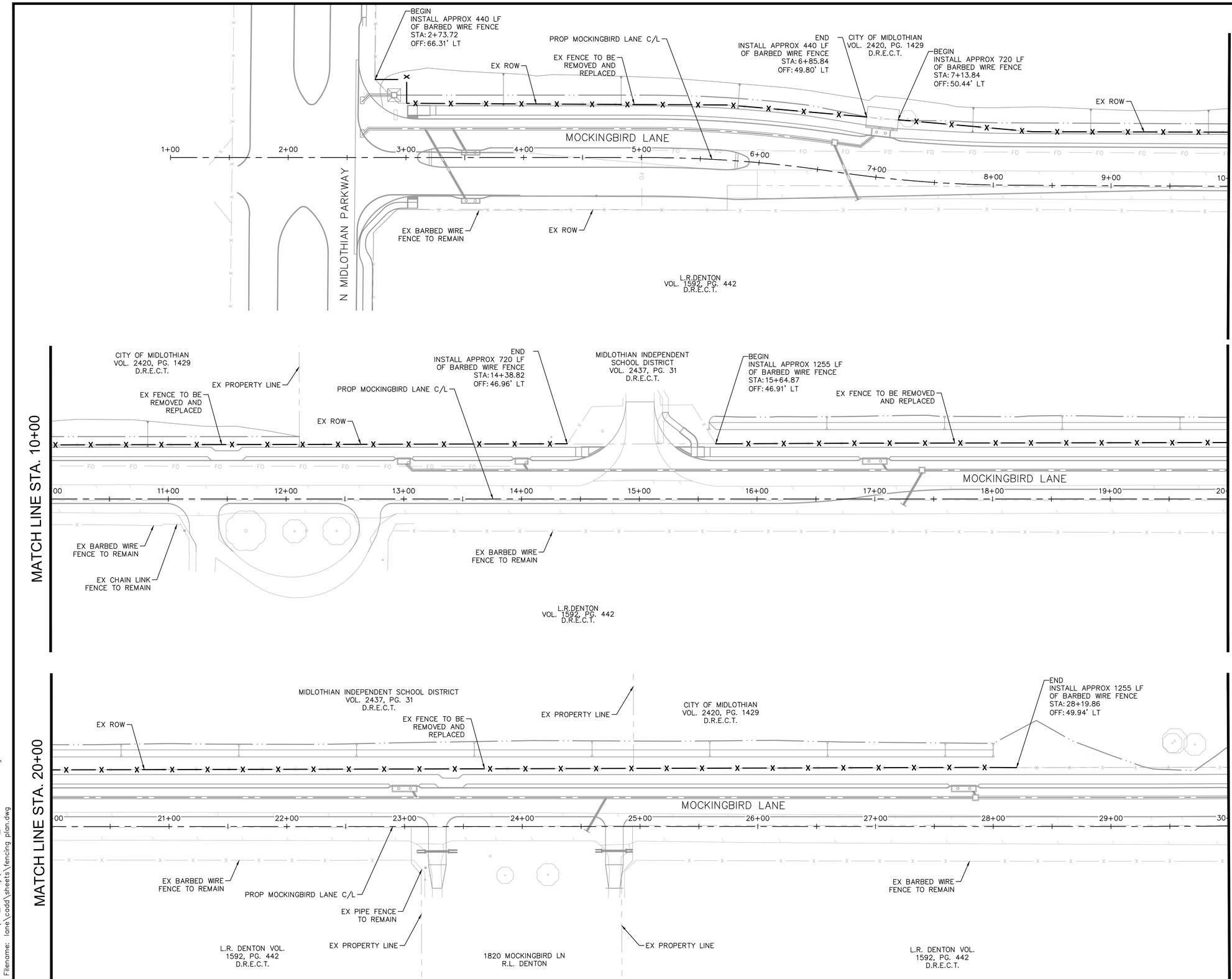
CITY OF MIDLOTHIAN, TEXAS
DEPARTMENT OF ENGINEERING, UTILITIES, AND PUBLIC WORKS

STANDARD CONSTRUCTION DETAILS
PAVING

PROJECT SIGN & PAVEMENT MARKING DETAILS

NO:	REVISION:	DATE:	SHEET:
			C6.16

Midlothian
DFW's Southern Star



GRAPHIC SCALE

40 0 20 40 80

ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 80 FT

NOTES:

1. LOCATION OF NEW FENCING ALONG CITY OF MIDLOTHIAN PROPERTY TO BE DETERMINED IN THE FIELD WITH THE CITY. TEMPORARY FENCING IS CONSIDERED SUBSIDIARY TO THE CONSTRUCTION OF FENCING.
2. WHERE NEW FENCE IS INSTALLED TEMPORARY FENCE SHOULD BE INSTALL PRIOR TO REMOVAL OF EXISTING FENCE. PERMANENT FENCE SHALL BE INSTALLED FOLLOWING COMPLETION OF CONSTRUCTION.
3. ALL FENCING SHALL MATCH THE EXISTING FENCING UNLESS OTHERWISE NOTED IN THE PLANS.

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

FENCING PLAN
(SHEET 1 OF 4)

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C7.01

Plotted By: 2026-08-21 11:42:08, Salinas, Rene
Last Saved: 2026-08-21 08:54:32 (FENCING PLAN (SHEET 1 OF 4))
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\fencing plan.dwg

MATCH LINE STA. 30+00

BEGIN
INSTALL APPROX 110 LF
OF BARBED WIRE FENCE
STA: 32+00.00
OFF: 49.00' LT

EX FENCE TO BE
REMOVED AND
REPLACED AS
NEEDED

EX FENCE TO BE
REMOVED AND
REPLACED

EX ROW

END
INSTALL APPROX 110 LF
OF BARBED WIRE FENCE
STA: 33+03.06
OFF: 44.00' LT

BEGIN
INSTALL APPROX 320 LF
OF BARBED WIRE FENCE
STA: 34+16.60
OFF: 44.55' LT

PROP MOCKINGBIRD LANE C/L

CITY OF MIDLOTHIAN
VOL. 2420, PG. 1429
D.R.E.C.T.

END
INSTALL APPROX 320 LF
OF BARBED WIRE FENCE
STA: 37+39.70
OFF: 48.11' LT

EX FENCE TO BE
REMOVED AND
REPLACED AS
NEEDED

MOCKINGBIRD LANE

30+00 31+00 32+00 33+00 34+00 35+00 36+00 37+00 38+00 39+00 40+00

EX BARBED WIRE
FENCE TO REMAIN

L.R. DENTON VOL.
1592, PG. 442
D.R.E.C.T.

EX ROW

EX 10' UTILITY
EASEMENT

BOARDWALK STREET

1033 BOARDWALK ST
KINSEY KELLY & JASON

EX ROW

EX STOCKADE
FENCE TO REMAIN

32 CONNECTICUT AVE
RENO RICHARD

34 CONNECTICUT AVE
WICKLIFFE ERIC G

EX 10' UTILITY
EASEMENT

30 CONNECTICUT AVE
LONGORIA AMANDA &
RAMIRO PERALES

28 CONNECTICUT AVE
RESZI DFW ACQ I LLC

MATCH LINE STA. 40+00

MATCH LINE STA. 40+00

CITY OF MIDLOTHIAN
VOL. 2420, PG. 1429
D.R.E.C.T.

BEGIN
INSTALL APPROX 940 LF
OF BARBED WIRE FENCE
STA: 46+97.64
OFF: 46.66' LT

EX FENCE TO BE
REMOVED AND
REPLACED AS
NEEDED

PROP MOCKINGBIRD LANE C/L

EX ROW

EX FENCE TO BE
REMOVED AND
REPLACED

MOCKINGBIRD LANE

40+00 41+00 42+00 43+00 44+00 45+00 46+00 47+00 48+00 49+00 50+00

EX STOCKADE
FENCE TO REMAIN

EX 10' UTILITY
EASEMENT

EX ROW

EX CHAIN LINK
FENCE TO REMAIN

EX STOCKADE
FENCE TO REMAIN

26 CONNECTICUT AVE
JONES KATHERINE L

28 CONNECTICUT AVE
RESZI DFW ACQ I LLC

24 CONNECTICUT AVE
PHELPS CLIFTON E &
BRANDY M

1033 PARK PLACE BLVD
MONTALVO SEDRIEL J

PARK PLACE
BLVD.

EX ROW

EX 15' UTILITY
EASEMENT

MIDLOTHIAN I.S.D.
PARK PLACE
2ND SECTION
LOT 1, BLOCK 7
CAB. B, SLIDE 482
P.R.E.C.T.

BALTIC AVE

MATCH LINE STA. 50+00

MATCH LINE STA. 50+00

END
INSTALL APPROX 940 LF
OF BARBED WIRE FENCE
STA: 56+34.27
OFF: 51.27' LT

EX FENCE TO BE
REMOVED AND
REPLACED

CITY OF MIDLOTHIAN
VOL. 2420, PG. 1429
D.R.E.C.T.

PROP MOCKINGBIRD LANE C/L

EX ROW

MOCKINGBIRD LANE

50+00 51+00 52+00 53+00 54+00 55+00 56+00 57+00 58+00 59+00 60+00

PROP ONWARD
ROAD C/L

EX ROW

PARKSIDE ESTATES
HOMEOWNERS
ASSOCIATION INC
LOT 10 BLK 4

EX WROUGH IRON
FENCE TO REMAIN

EX STOCKADE
FENCE TO REMAIN

EX 10' UTILITY
EASEMENT

EX ROW

SHORT LINE AVE

ONWARD ROAD

EX STOCKADE
FENCE TO REMAIN

25' DRAINAGE AND
UTILITY EASEMENT

EX STOCKADE
FENCE TO REMAIN

EX 15' UTILITY
EASEMENT

EX ROW

1145 STARLING CIR
MORRIS HEATHER
& ALEXANDER R

MOCKINGBIRD ESTATES
INST.#9924620
O.P.R.E.C.T.

2801 ORIENTAL
AVE
LAZARZ KAREN M

2803 ORIENTAL AVE
COFFMAN KRYSTAL &
JUSTIN

2805 ORIENTAL AVE
WARD RICHARD C &
STACY A

2807 ORIENTAL AVE
TALEN MICHAEL &
CAROLE

2809 ORIENTAL AVE
BARNETT CHARLES O
& LILA L

2811 ORIENTAL AVE
FLACH DAVID J &
ASHLEY R

MATCH LINE STA. 60+00

GRAPHIC SCALE

40 0 20 40 80

ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 80 FT

NOTES:

1. LOCATION OF NEW FENCING ALONG CITY OF MIDLOTHIAN PROPERTY TO BE DETERMINED IN THE FIELD WITH THE CITY. TEMPORARY FENCING IS CONSIDERED SUBSIDIARY TO THE CONSTRUCTION OF FENCING.
2. WHERE NEW FENCE IS INSTALLED TEMPORARY FENCE SHOULD BE INSTALL PRIOR TO REMOVAL OF EXISTING FENCE. PERMANENT FENCE SHALL BE INSTALLED FOLLOWING COMPLETION OF CONSTRUCTION.
3. ALL FENCING SHALL MATCH THE EXISTING FENCING UNLESS OTHERWISE NOTED IN THE PLANS.

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

STATE OF TEXAS
MISTY D. CHRISTIAN
103384
REGISTERED
PROFESSIONAL
ENGINEER
8/21/2026

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

FENCING PLAN
(SHEET 2 OF 4)

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C7.02

Plotted, By: 2026-08-21 11:42:16, Salinas, Rene
Last Saved: 2026-08-21 08:54:32 (FENCING PLAN (SHEET 2 OF 4))
Filename: k:\fw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\fencing plan.dwg

MATCH LINE STA. 60+00

1302 GREENROCK CT
KASSEN CLINTON K &
HANNAH J

3221 MOCKINGBIRD LN
THE SHEPHERD'S HOUSE
CHURCH OF THE NAZARENE

CITY OF MIDLOTHIAN
VOL. 1980, PG. 2052
D.R.E.C.T.

SARDIS LONE ELM WATER
VOL. 737, PG. 367
D.R.E.C.T.

PROP 20' DRAINAGE EASEMENT
EX 10' UTILITY EASEMENT
EX PROPERTY LINE
PROP MOCKINGBIRD LANE C/L
EX BARBED WIRE FENCE TO REMAIN
EX ROW
EX PROPERTY LINE
EX CHAIN LINK FENCE TO REMAIN

60+00 61+00 62+00 63+00 64+00 65+00 66+00 67+00 68+00 69+00 70

MOCKINGBIRD LANE

EX STOCKADE FENCE TO BE REMOVED AND REPLACED AS NEEDED
EX PROPERTY LINE
EX 15' UTILITY EASEMENT
EX PROPERTY LINE
EX STOCKADE FENCE TO BE REMOVED AND REPLACED AS NEEDED
EX ROW
EX PROPERTY LINE
EX STOCKADE FENCE TO BE REMOVED AND REPLACED AS NEEDED
EX STOCKADE FENCE TO BE REMOVED AND REPLACED AS NEEDED
EX PROPERTY LINE

1146 STARLING CIR
SEAGO DAVID

1145 FINCH CIR
KETTER STEPHEN
& JENNIFER

1146 FINCH CIR
FKH SFR PROPCO J L P

1145 SPARROW CIR
SMITH TERRY D &
PATRICIA K

1146 SPARROW CIR
BRANTLEY JULIE S

1145 ROBIN CIR
LLOYD DYLAN

1146 ROBIN CIR
BARR STEVEN G &
SANDRA S

1141 PHEASANT DR
RODGERS GUY & GINA
D I VEROLI

MATCH LINE STA. 70+00

MATCH LINE STA. 70+00

EX ROW
EX CHAIN LINK FENCE TO REMAIN
EX BARBED WIRE FENCE TO REMAIN
RICKIE WOOD
VOL. 1171, PG. 807
D.R.E.C.T.
PROP MOCKINGBIRD LANE C/L
EX BARBED WIRE FENCE TO REMAIN

70+00 71+00 72+00 73+00 74+00 75+00 76+00 77+00 78+00 79+

MOCKINGBIRD LANE

EX BARBED WIRE FENCE TO BE REMOVED AND REPLACED AS NEEDED
EX ROW
EX 10' UTILITY EASEMENT
BEGIN
INSTALL APPROX 313 LF OF METAL PIPE FENCE
STA: 75+21.01
OFF: 56.87' RT
EX PROPERTY LINE
CONTRACTOR TO COORDINATE WITH PROPERTY OWNER TO REMOVE AND REPLACE EXISTING GATE, COLUMNS, AND PIPE FENCING
END
TIE IN TO EXISTING PIPE FENCE AND END APPROX 313 LF OF METAL PIPE FENCE
STA: 78+27.74
OFF: 58.54' RT
EX PROPERTY LINE

PHEASANT DRIVE

1142 PHEASANT DR
RIOS ADOLIO

3270 MOCKINGBIRD LN
BLOOMFIELD HOMES LP

3410 MOCKINGBIRD LN
BETZEL PROPERTIES LP

MATCH LINE STA. 79+00

1305 BLUEBIRD LN
POWELL THERICA A

EX CHAIN LINK FENCE TO REMAIN
EX 10' UTILITY EASEMENT
EX 10' UTILITY EASEMENT
1304 BLUEBIRD LN
KING C C

EX BARBED WIRE FENCE TO REMAIN
EX BARBED WIRE FENCE TO REMAIN
EX ROW
PROP MOCKINGBIRD LANE C/L
BLUEBIRD LANE
EX CHAIN LINK FENCE TO REMAIN
EX GATE TO REMAIN
EX ROW

79+00 80+00 81+00 82+00 83+00 84+00 85+00 86+00 87+00 88+00 89+00 90

EX 20' UTILITY EASEMENT
MOCKINGBIRD LANE

PROP ROW
EX ROW
EX PROPERTY LINE
3270 MOCKINGBIRD LN
BLOOMFIELD HOMES LP
EX 20' UTILITY EASEMENT
CONTRACTOR TO COORDINATE WITH PROPERTY OWNER TO REMOVE AND REPLACE EXISTING AUTOMATIC GATE, BRICK COLUMNS, 41 LF OF IRON FENCE, AND KEYPAD/ PEDESTAL
BEGIN
INSTALL APPROX 30 LF OF METAL PIPE FENCE
STA: 89+70.06
OFF: 44.26' RT
END
TIE IN TO EXISTING PIPE FENCE AND END APPROX 30 LF OF METAL PIPE FENCE
STA: 89+98.20
OFF: 44.28' RT

3440
MOCKINGBIRD LN
BETZEL JOSEPH
M & GAIL

BETZEL JOSEPH M & GAIL
VOL 2136. PG. 1901
D.R.E.C.T.

CONTRACTOR AGREES TO CALL JOSEPH BETZEL AT LEAST 4 WEEKS PRIOR TO CONSTRUCTION, TO INFORM HIM OF TIMELINE AND DETAILS. CONTRACTOR SHALL REQUEST HIS CONTACT INFORMATION PRIOR TO CONSTRUCTION.

3690 MOCKINGBIRD LN
ZADWICK MARY S

MATCH LINE STA. 90+00

GRAPHIC SCALE
40 0 20 40 80
ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.
IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 80 FT

NOTES:
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2. WHERE NEW FENCE IS INSTALLED TEMPORARY FENCE SHOULD BE INSTALL PRIOR TO REMOVAL OF EXISTING FENCE. PERMANENT FENCE SHALL BE INSTALLED FOLLOWING COMPLETION OF CONSTRUCTION.
3. ALL FENCING SHALL MATCH THE EXISTING FENCING UNLESS OTHERWISE NOTED IN THE PLANS.

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MICKEY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

FENCING PLAN
(SHEET 3 OF 4)

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER
C7.03

Plotted, By: 2026-08-21 11:42:26, Salinas, Rene
Last Saved: 2026-08-21 08:54:32 (FENCING PLAN (SHEET 3 OF 4))
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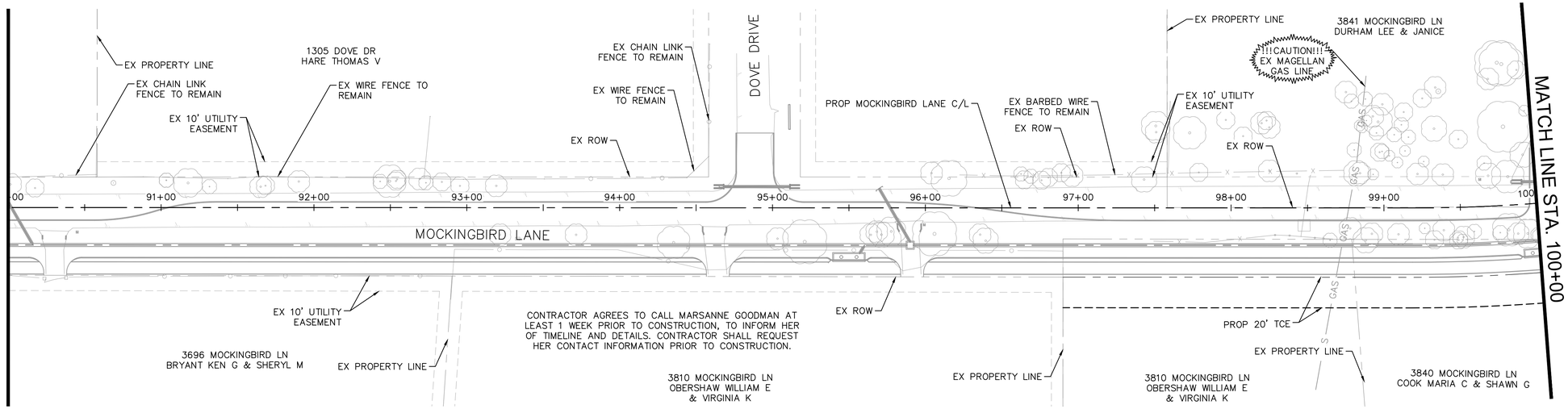

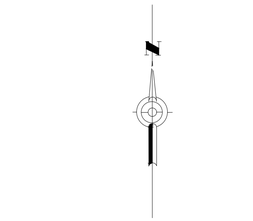

ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 80 FT

NOTES:
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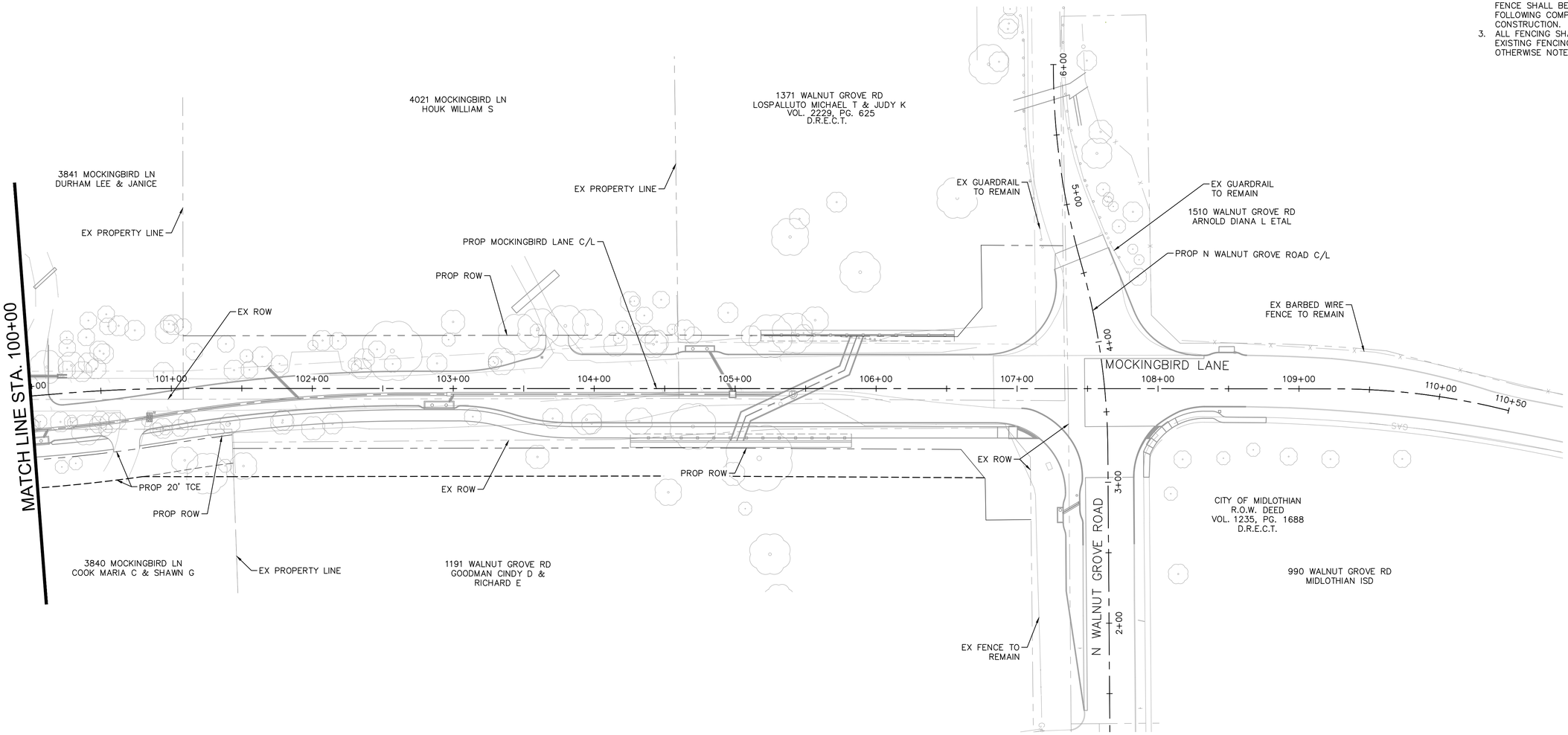


Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
103384
REGISTERED
PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

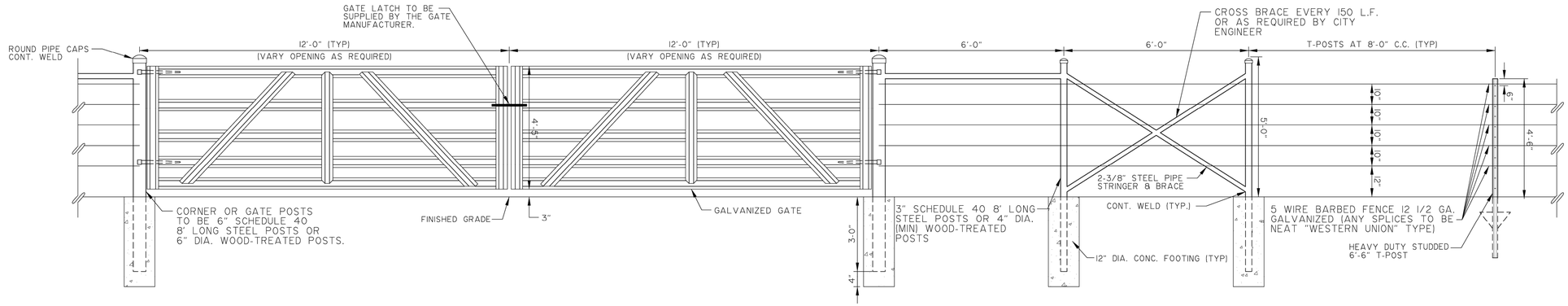
FENCING PLAN
(SHEET 4 OF 4)

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

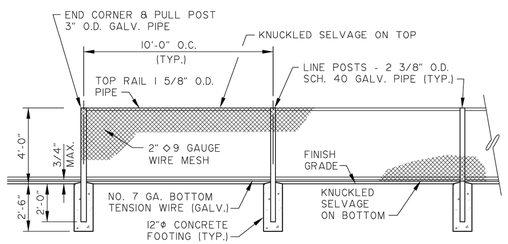
C7.04

Plotted By: Holland, Lindsey 2026-08-21 12:11:20
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\fencing plan.dwg 2026-08-21 12:10:11 (FENCING PLAN (SHEET 4 OF 4))
Filename: lane\cadd\sheets\fencing plan.dwg



1 5 STRAND BARBED WIRE FENCE & GALVANIZED DOUBLE GATE

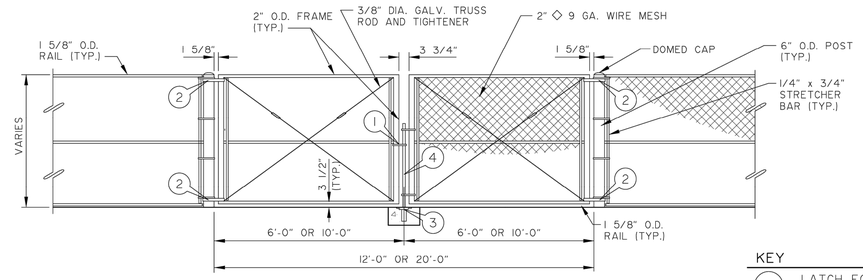
N.T.S.



NOTE:
CONCRETE FOOTING TO BE 3000 PSI CONCRETE MINIMUM.
(ANCHOR PLATE MAY BE SUBSTITUTED IN PLACE OF CONCRETE FOOTING IF PLACED ON TOP OF RETAINING WALL.)

2 4' HIGH CHAIN LINK FENCE

N.T.S.



DOUBLE GATE ELEVATION

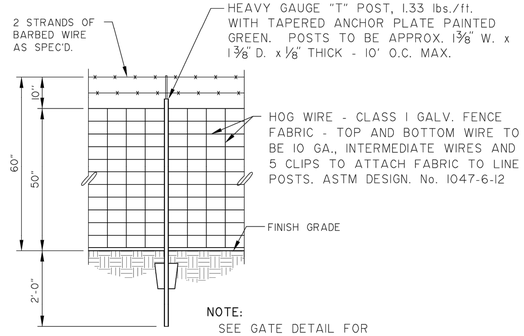
NOTE:
NO WELDING SHALL BE ALLOWED ON GATES.

3 12' OR 20' DOUBLE CHAIN LINK FENCE GATE

N.T.S.

KEY

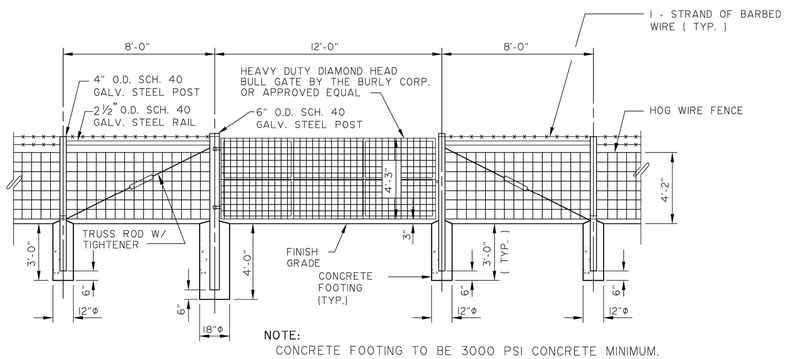
1. LATCH FORK, LOCK KEEPER, LOCK KEEPER GUIDE
2. TUBULAR POST HINGE (TOP & BOTTOM) HEAVY STEEL
3. PLUNGER ROD CATCH SET IN CONCRETE
4. PLUNGER ROD



NOTE:
SEE GATE DETAIL FOR CONCRETE FOOTING.

4 HOG WIRE FENCING

N.T.S.



NOTE:
CONCRETE FOOTING TO BE 3000 PSI CONCRETE MINIMUM.
(ANCHOR PLATE MAY BE SUBSTITUTED IN PLACE OF CONCRETE FOOTING IF PLACED ON TOP OF RETAINING WALL.)

5 12' WIDE GALVANIZED STEEL GATE FOR HOG WIRE FENCING

N.T.S.

NOTE:
1. INTRUDER-RESISTANT FENCE--A FENCE SIX FEET OR GREATER IN HEIGHT, CONSTRUCTED OF METAL WITH THREE STRANDS OF BARBED WIRE EXTENDING OUTWARD FROM THE TOP OF THE FENCE AT A 45 DEGREE ANGLE WITH THE SMOOTH SIDE OF THE FENCE ON THE OUTSIDE WALL. THE FENCE MUST BE IN GOOD REPAIR AND CLOSE ENOUGH TO SURFACE GRADE TO PREVENT INTRUDER PASSAGE.
2. ALL BARBED WIRE SHALL BE LOCATED ON THE INSIDE OF THE POSTS.

NOTE: THIS IS SHT. SD-6 OF THE STANDARD CONSTRUCTION DETAILS, ORDINANCE NO. 2013-51 EFFECTIVE DATE: JANUARY 1, 2014

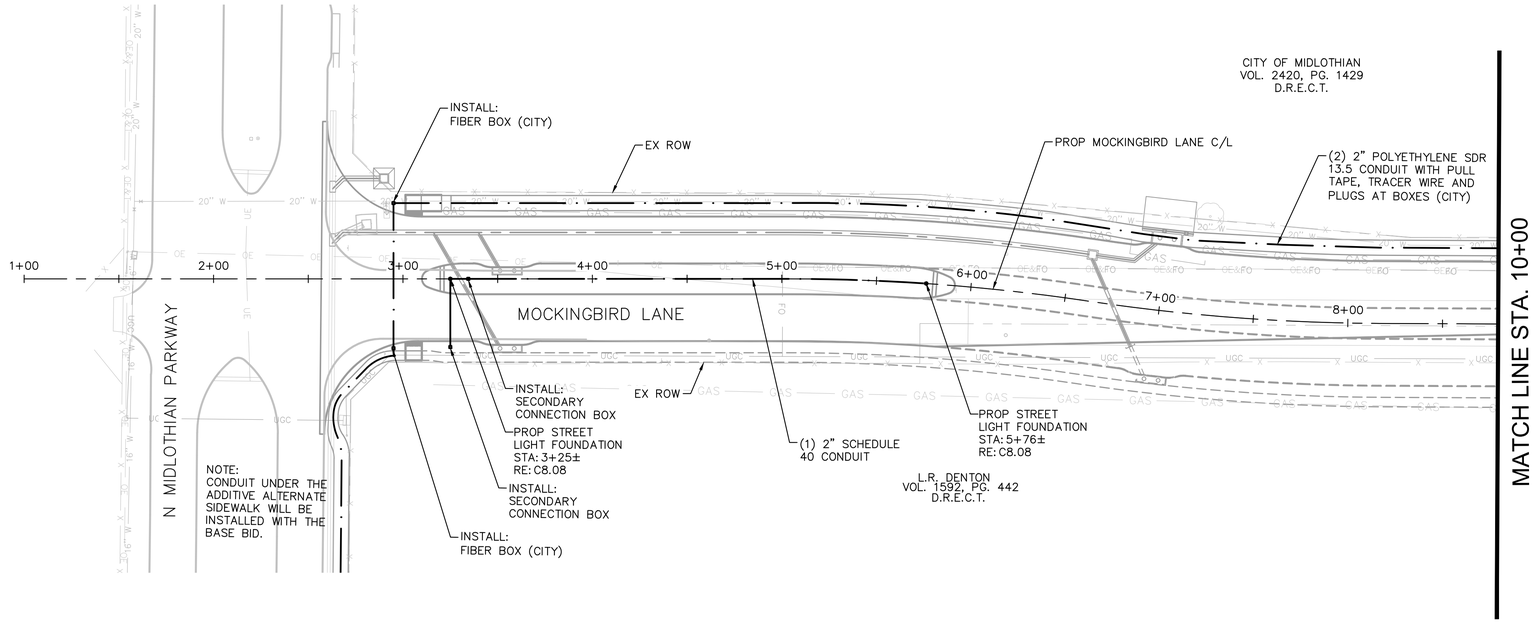
CITY OF MIDLOTHIAN, TEXAS
DEPARTMENT OF ENGINEERING, UTILITIES, AND PUBLIC WORKS

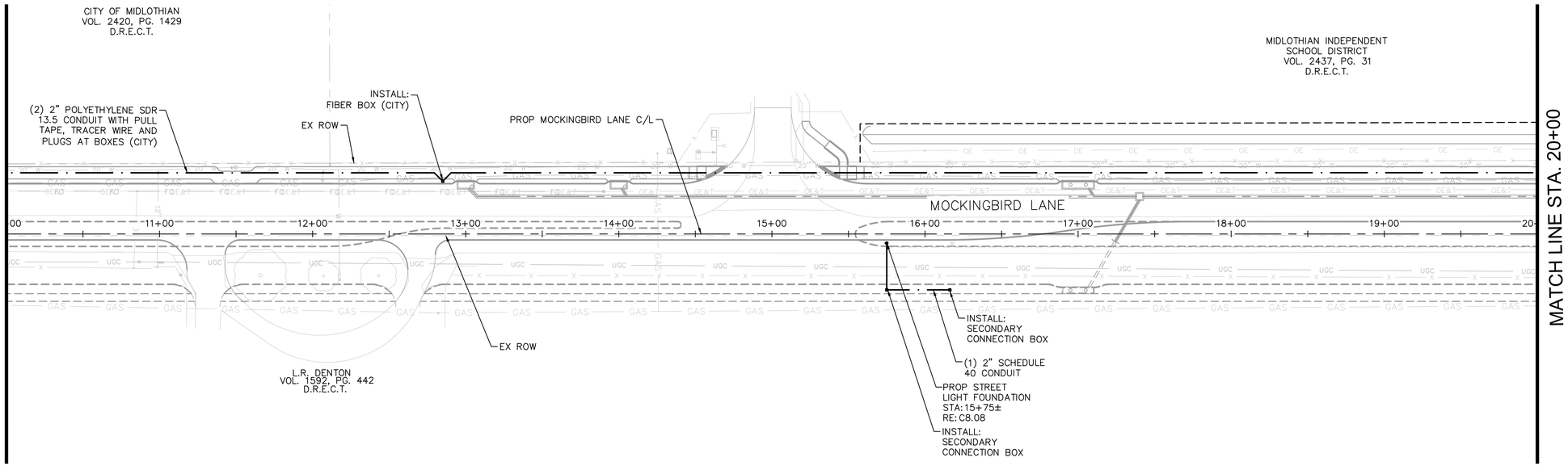
STANDARD CONSTRUCTION DETAILS PAVING

FENCING DETAILS

NO:	REVISION:	DATE:	SHEET:
			C7.05

Midlothian
DFW's Southern Star





GRAPHIC SCALE

40 0 20 40 80

ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 80 FT

NOTES:

1. FIBER BOX LOCATIONS SHOWN ARE APPROXIMATE ONLY. FINAL BOX LOCATIONS AND NUMBER TO BE DETERMINED IN THE FIELD BY THE CITY.
2. ONCOR BOX LOCATIONS SHOWN ARE APPROXIMATE ONLY. FINAL BOX LOCATIONS AND NUMBER TO BE VERIFIED BY ONCOR.
3. REFER TO GENERAL NOTES (C0.03) FOR MORE INFORMATION ON FIBER COMMUNICATIONS.
4. REFER TO WATER SHEETS FOR 4" PVC SLEEVE LOCATIONS.

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

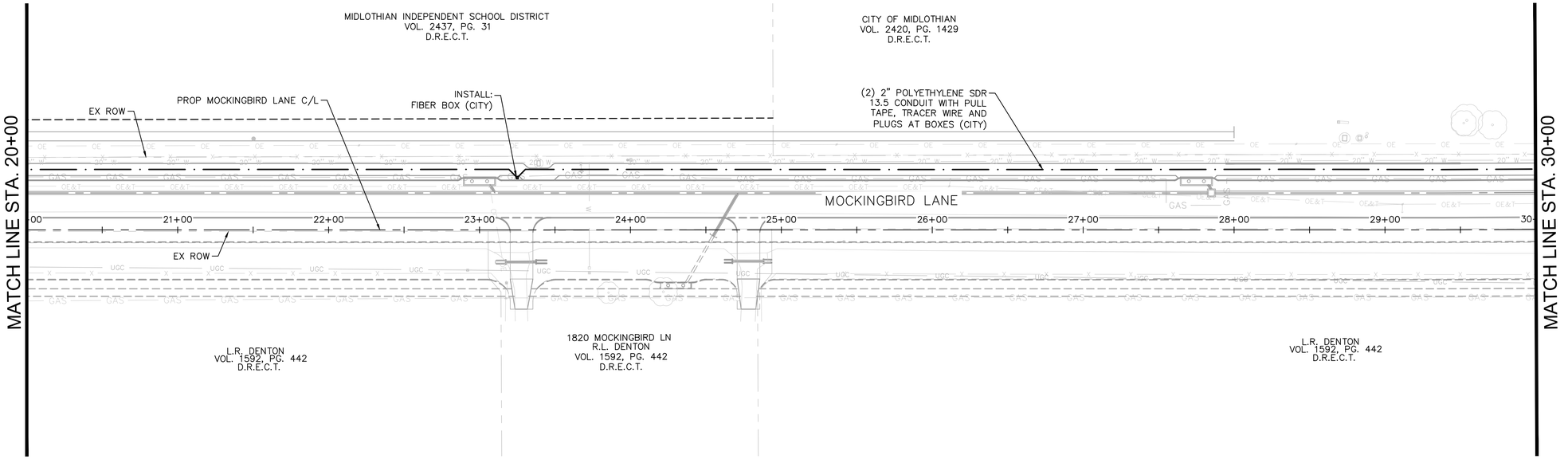
LIGHTING PLAN - BEGIN TO STA 20+00

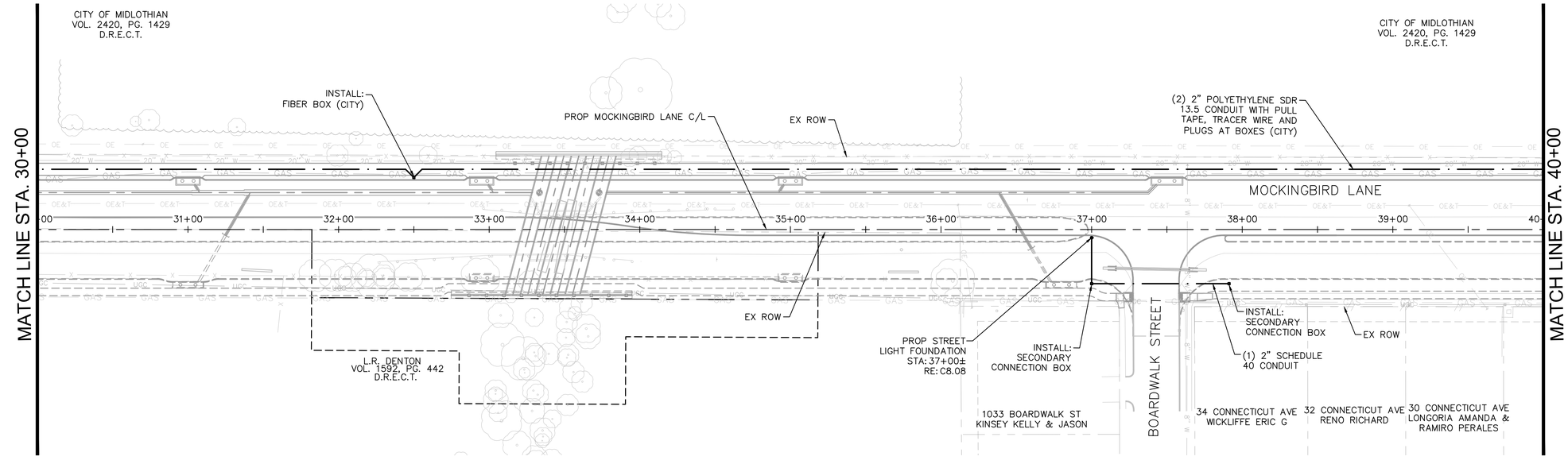
DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C8.01

Plotted By: 2026-08-21 11:19:21, Solinas, Rene
Last Saved: 2026-08-21 09:43:40 (LIGHTING PLAN - BEGIN TO STA 20+00)
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\lighting plan.dwg





GRAPHIC SCALE

40 0 20 40 80

ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

IF PLAN SHEET IS 11" X 17",
SCALE IS 1 INCH = 80 FT

NOTES:
1. FIBER BOX LOCATIONS SHOWN ARE APPROXIMATE ONLY. FINAL BOX LOCATIONS AND NUMBER TO BE DETERMINED IN THE FIELD BY THE CITY.
2. ONCOR BOX LOCATIONS SHOWN ARE APPROXIMATE ONLY. FINAL BOX LOCATIONS AND NUMBER TO BE VERIFIED BY ONCOR.
3. REFER TO GENERAL NOTES (C0.03) FOR MORE INFORMATION ON FIBER COMMUNICATIONS.
4. REFER TO WATER SHEETS FOR 4" PVC SLEEVE LOCATIONS.

Kimley»Horn
801 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

LIGHTING PLAN - STA
20+00 TO STA 40+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C8.02

Plotted, By: Salinas, Rene
2026-08-21 11:19:31
2026-08-21 09:43:40 (LIGHTING PLAN – STA 20+00 TO STA 40+00)
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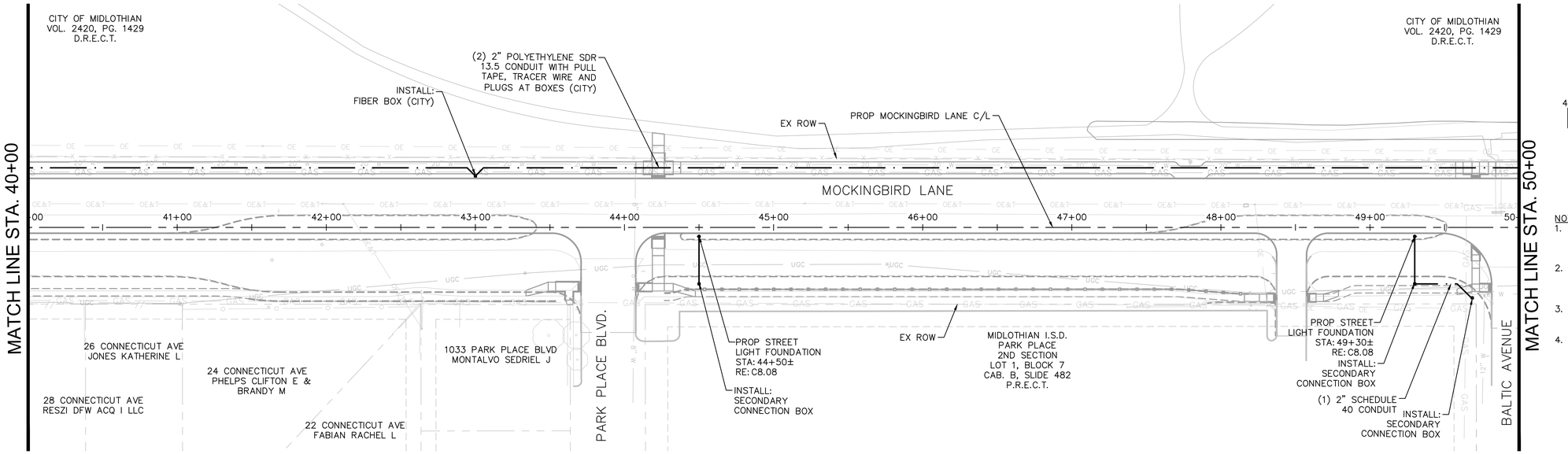

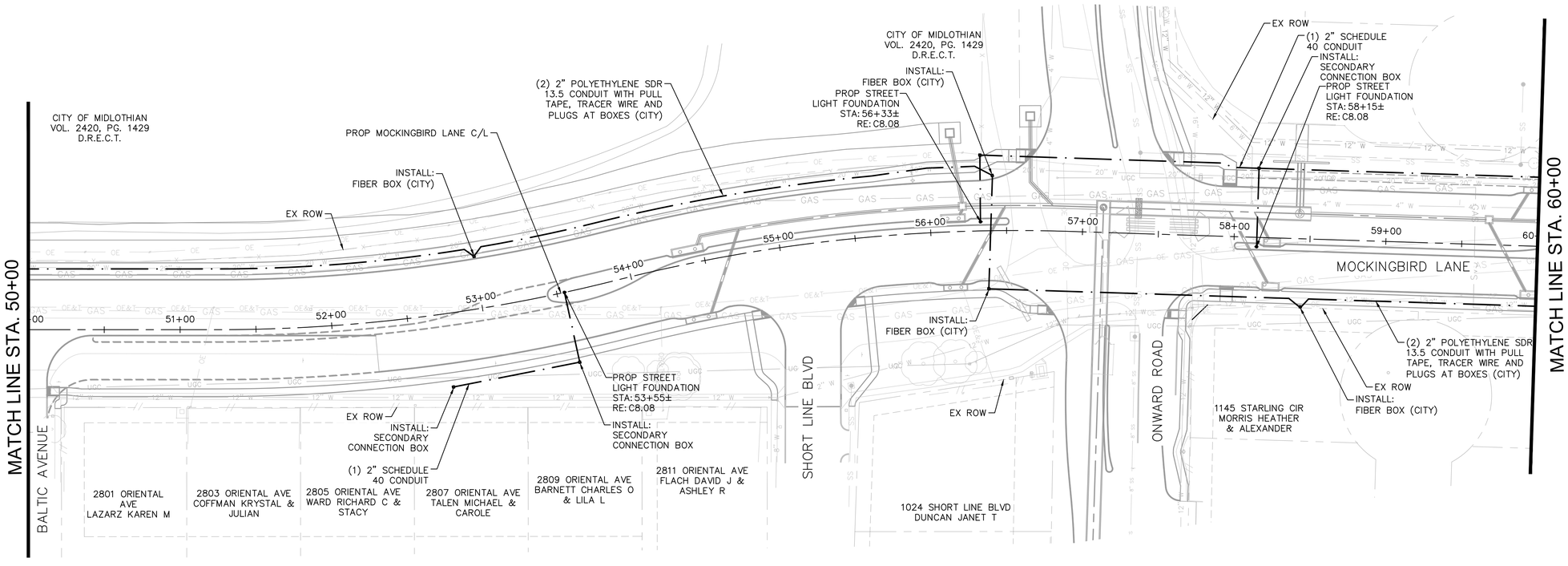

GRAPHIC SCALE

40 0 20 40 80

ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

IF PLAN SHEET IS 11" X 17",
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No.	Revision	By	Date

8/21/2026
STATE OF TEXAS
MISSY D. CHRISTIAN
98384
REGISTERED
PROFESSIONAL
ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

LIGHTING PLAN - STA 40+00 TO STA 60+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C8.03

Plotted, By: 2026-08-21 11:19:41, Salinas, Rene
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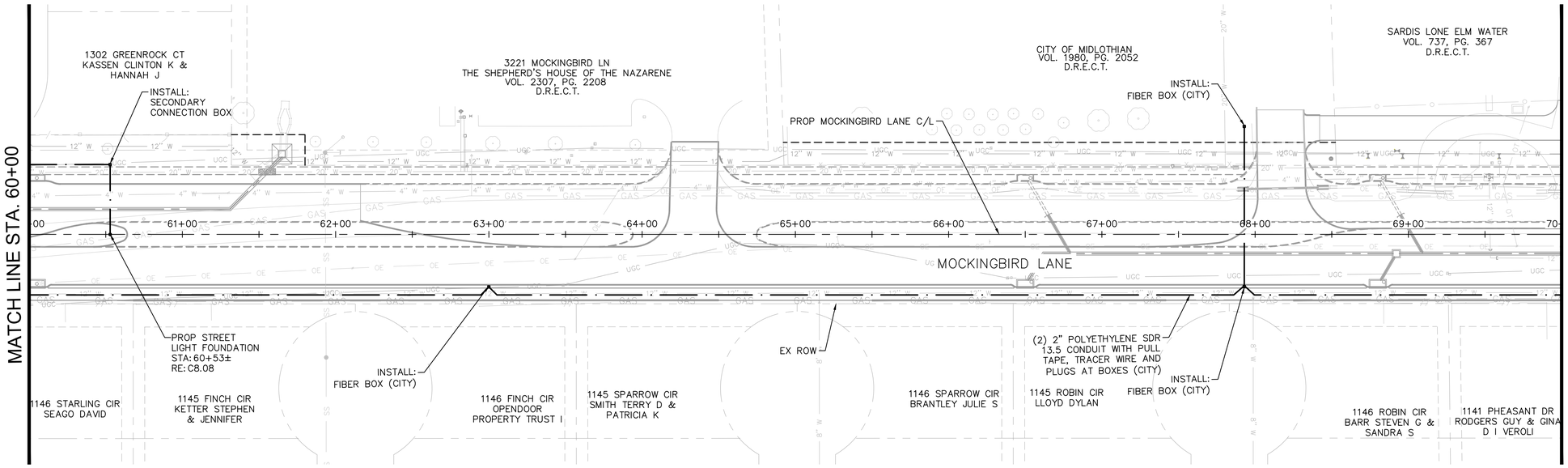

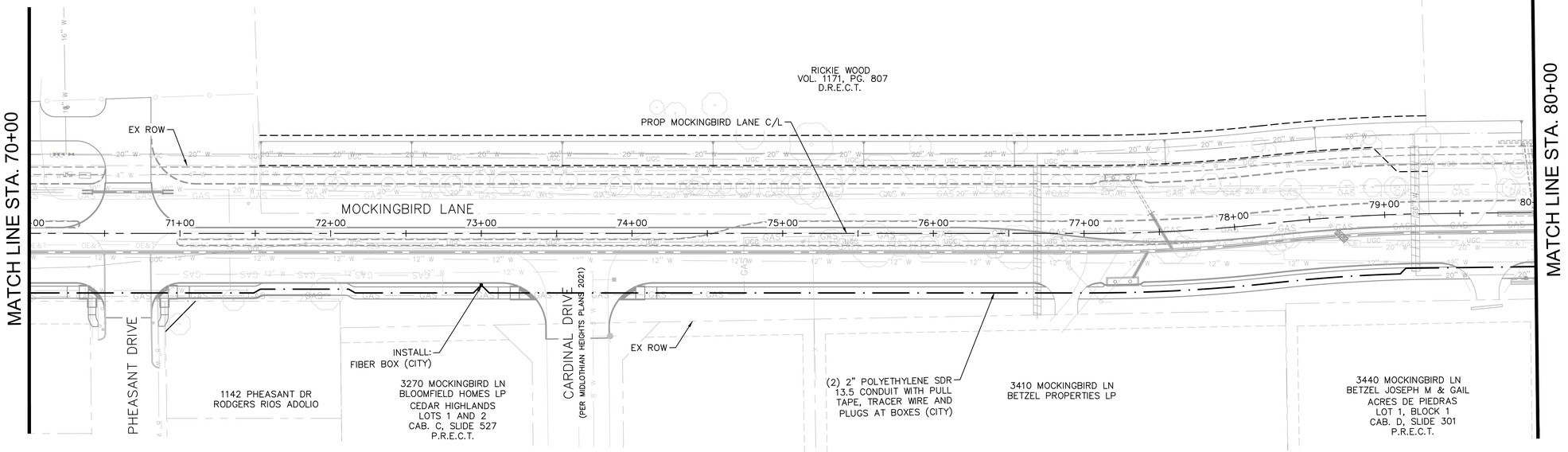

GRAPHIC SCALE

40 0 20 40 80

ORIGINAL PLOTTED SCALE:
1 inch = 40 ft.

IF PLAN SHEET IS 11" X 17",
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No.	Revision	By	Date

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STATE OF TEXAS
MISTY M. CHRISTIAN
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REGISTERED
PROFESSIONAL
ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

LIGHTING PLAN - STA
60+00 TO STA 80+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C8.04

Plotted, By: 2026-08-21 11:19:51, Salinas, Rene
Last Saved: 2026-08-21 09:43:40 (LIGHTING PLAN – STA 60+00 TO STA 80+00)
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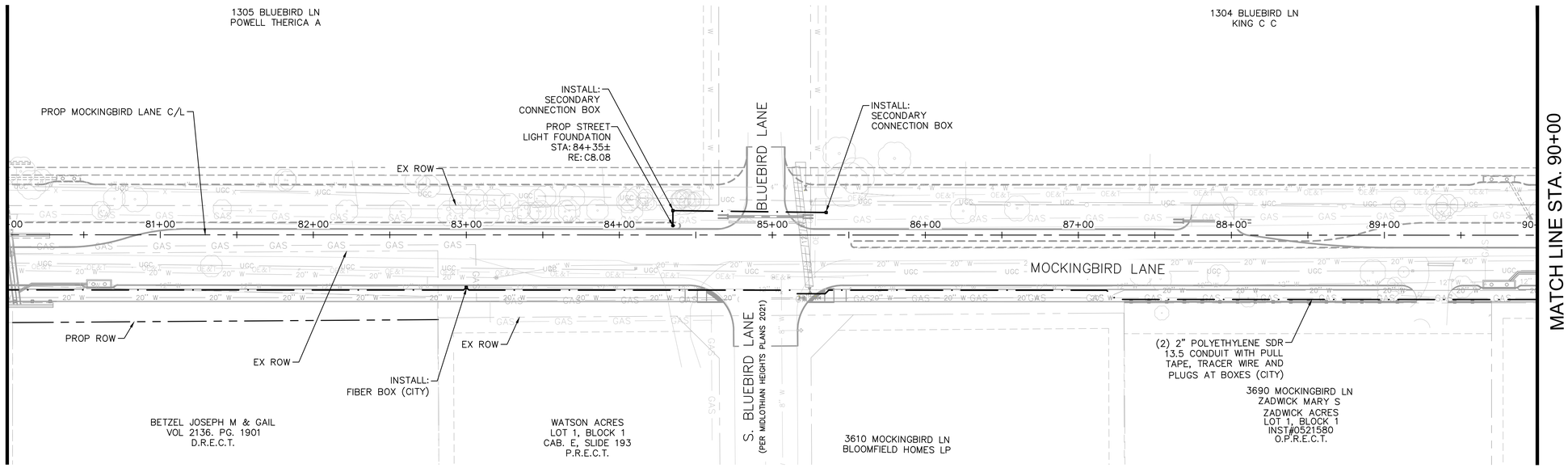

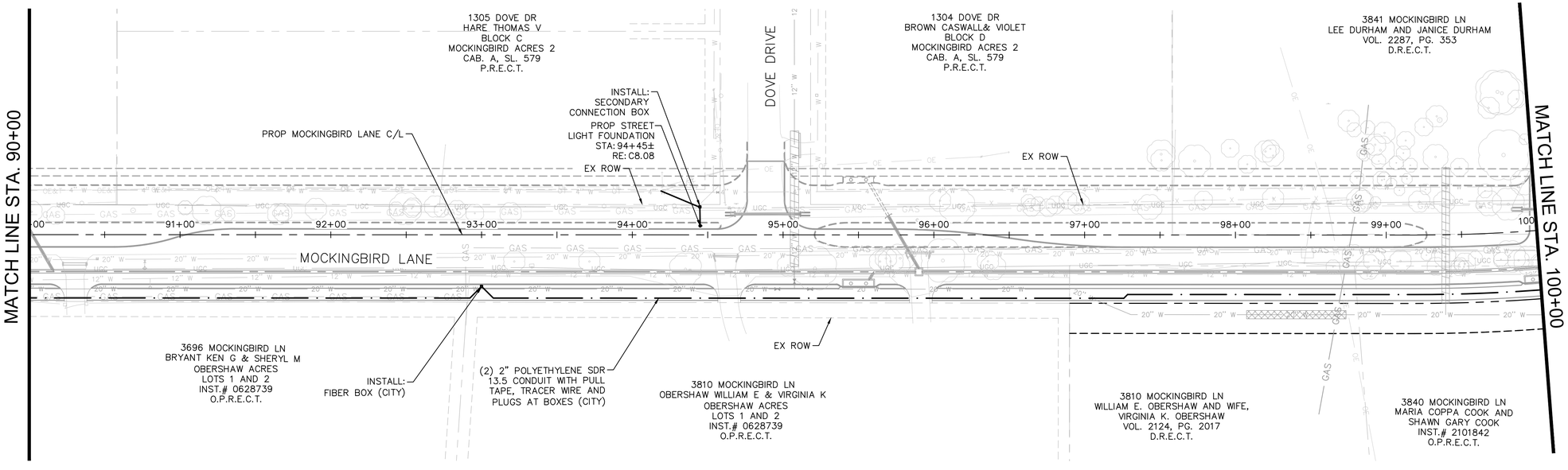

GRAPHIC SCALE

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CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

LIGHTING PLAN - STA
80+00 TO STA 100+00

DATE:	AUGUST 2026
DESIGN:	ALC
DRAWN:	JSE
CHECKED:	MDC
KHA NO.:	061265047

SHEET NUMBER

C8.05

Plotted, By: Salinas, Rene
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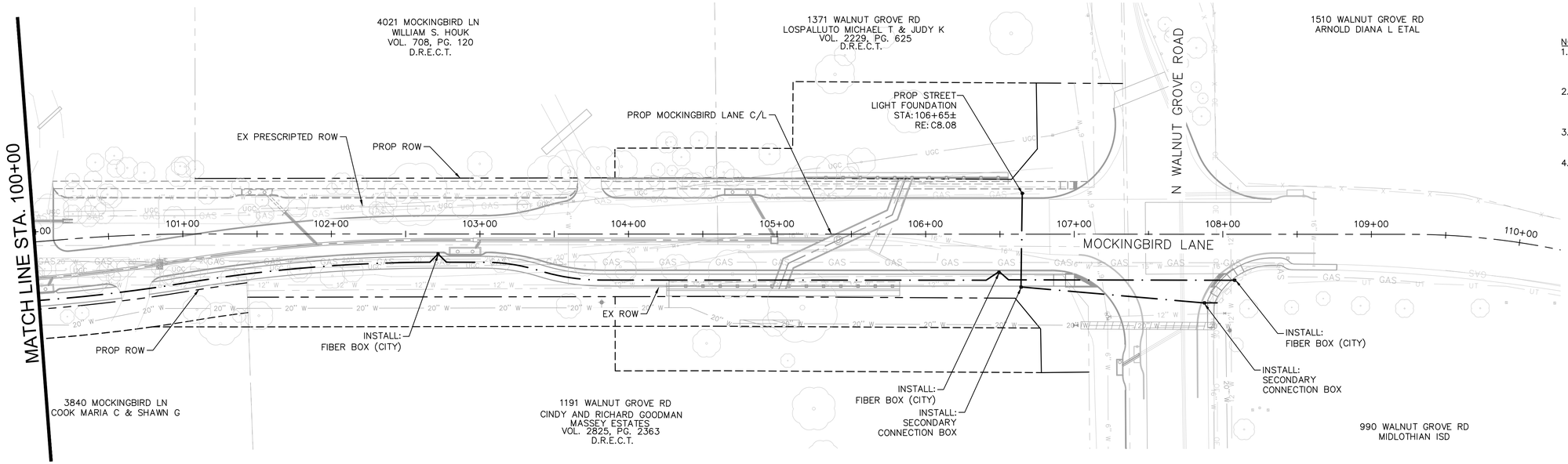

GRAPHIC SCALE

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STATE OF TEXAS
MISTY D. CHRISTIAN
98384
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ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

LIGHTING PLAN -
STA 100+00 TO END

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER

C8.06

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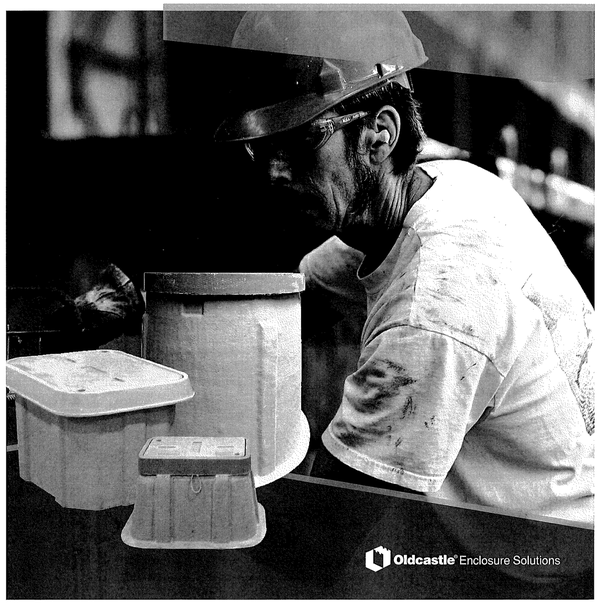
Plotted, By: 2026-08-21 09:43:40 (LIGHTING PLAN – STA 100+00 TO END)
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\lighting plan.dwg
Filename:

OLDCASTLE FRP

STRENGTH AND DURABILITY, CAREFULLY CRAFTED.



Oldcastle® Enclosure Solutions

Count on Oldcastle Enclosure Solutions to deliver reliable, high-performance products to allow for a safer and more successful project.

FOR MORE INFORMATION CALL
(800) 735-5566

VISIT OUR WEBSITE
OldcastleEnclosures.com

At Oldcastle Enclosure Solutions, we understand what makes your projects successful — the right enclosure, for the right location, for the right application. That's why we're dedicated to providing innovative, high-quality solutions to meet every application and the reliable service to back it up.

We leverage our footprint and manufacturing portfolio of the world's leading brands in grade-level utility boxes to create optimal solutions for Electrical, Communications, Water and Irrigation markets.

We believe our solutions do more than simply support infrastructure, that our solutions keep our communities running strong.

The information provided in this document is intended for informational purposes only and is subject to change without notice. Oldcastle may also make improvements and/or changes in the products, described in this information at any time without notice. Revised 1/18/2017

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STRENGTH AND DURABILITY, CAREFULLY CRAFTED.

INTRODUCING OLDCASTLE FRP

The Oldcastle FRP family of enclosures are produced in a unique hybrid process bonding strong, polymer concrete rings with high-impact resistant fiberglass sidewalls, forming a monolithic body. Paired with polymer concrete lid, select units are suitable for light or heavy incidental traffic. Specifiers can meet expected load ratings while installers can handle and modify with ease.

DESIGNED WITH YOUR NEEDS IN MIND.

The Oldcastle FRP family of enclosures offers a wide variety of sizes from 1118 all the way to 4896. This unique enclosure offers flared wall and straight wall bodies in many sizes to accommodate various job requirements. The flared wall bodies offer more interior space for your application. This monolithic design is easily modified in the field with common tools.

CAREFULLY CRAFTED.

Oldcastle FRP is manufactured using a spray up method with even layers of fiberglass strands and resin that are applied onto the mold. After being rolled to remove trapped air, we reinforce the enclosure with woven cloth applied between layers. This process ensures our high impact resistance and durability.

LIGHT ON WEIGHT, NOT ON PERFORMANCE.

LIGHTWEIGHT

Oldcastle FRP features a lightweight design allowing for easier, safer handling and installation. The unique spray-up fiberglass manufacturing method paired with the polymer ring creates a strong, lightweight product.

STRONG

Strength and durability are key features to the Oldcastle FRP family. The reinforced fiberglass sidewalls are high-impact resistant, providing a superior solution to a common chanllenge in this market.

MODIFIABLE

Oldcastle FRP allows for easy field modification with common power tools. Contractors and installers can modify these enclosures quickly with ease.

ROBUST OFFERING

We understand that variety is important to meet the various needs of your projects, and Oldcastle FRP is available in a broad range of sizes and depths to provide the right enclosure for your project.

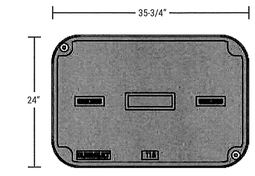
Oldcastle® Enclosure Solutions

2436

OLDCASTLE FRP

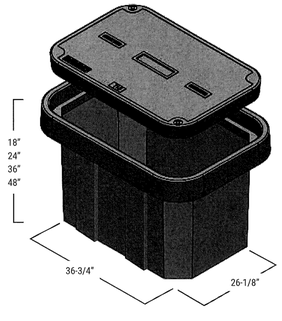
COVER

Style:	Flush
Material:	Polymer Concrete
Model:	24" x 36"
Std. Fasteners:	1/2-13 Stainless Steel Hex Head Bolt, Washer and Floating Nut
Options:	Logos and Special Markings
Surface:	Slip Resistant
Performance:	ANSI/SCTE-77 Tier 15



BODY

Material:	Fiber Reinforced Polymer w/ Polymer Concrete Ring
Model:	24" x 36"
Depths:	18", 24", 36", 48"
Wall Type:	Straight
Performance:	ANSI/SCTE-77 Tier 15



LOAD RATING / NOTES

MEDIUM DUTY
ANSI/SCTE TIER 15

For use in non-vehicular traffic situations only. Weights and dimensions may vary slightly. Actual load rating is determined by the box and cover combination.

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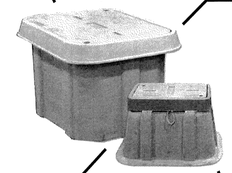
OLDCASTLE FRP FEATURES

Medium Duty: Non-Deliberate Traffic
ANSI/SCTE-77, Tier 15

MARKING OPTIONS
Flush cover polymer concrete lids available in multiple marking options, including custom marking opportunities.

HARDWARE, ACCESSORIES & SECURITY
Available accessories such as cable racking and hooks as well as diverse hardware options providing various levels of security.

MONOLITHIC DESIGN
Fiberglass resin sidewalls paired with a polymer concrete ring crosslink during the curing process creating a strong body.



EASILY FIELD MODIFIABLE
Add mouseholes and knockouts in the field with ease. Common tools and bits to make simple field modifications.

HIGH-IMPACT RESISTANT SIDEWALL FABRICATION
Even layers of fiberglass strand resin applied and reinforced with woven cloth, making this product exceptionally strong and high quality performance.

OLDCASTLE FRP ENCLOSURE FAMILY

Material	Model	Size (L x W)	Shape	Wall Type	Depths	Performance	Rating
Fiberglass Reinforced Polymer w/ Polymer Concrete Ring	1118	11" x 18"	▭	Straight	12", 18"	Tier 15	Medium Duty
	1324	13" x 24"	▭	Straight/Flared	12", 18", 24"		
	1419	14" x 19"	▭	Flared	18", 24"		
	1730	17" x 30"	▭	Straight/Flared	12", 18", 24"		
	2424	24" x 24"	▭	Straight	24"		
	2436	24" x 36"	▭	Straight/Flared	18", 24", 30", 36", 48"		
	3048	30" x 48"	▭		18", 24", 30", 36"		
	3060	30" x 60"	▭	Straight	30", 36"		
	3660	36" x 60"	▭		24", 30", 36"		
	4872	48" x 72"	▭		36", 48"		
	4896	48" x 96"	▭		48"		
	1000	10" dia	○	Straight	18"		
	1800	18" dia	○	Flared	36", 48"	Tier 8/Tier 15	Lt/Med Duty
	2200	22" dia	○		30"	Tier 15	Medium Duty
	2400	24" dia	○		36"	Tier 8/Tier 15	Lt/Med Duty
	2700	27" dia	○		36", 48"	Tier 15	Medium Duty
	3900	39" dia	○		24", 36", 48", 72"		
	4000	40" dia	○		48"		
	5400	39" dia	○	Straight	36", 46"		

NOTE: Actual load rating is dertermined by the box and cover combinations. Dimensions may vary slightly.
Depths marked in RED are only available in straight wall enclosures, depths marked in BLUE are only available in flared wall enclosures.

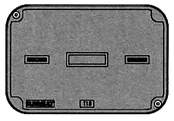
OLDCASTLE FRP STRENGTH AND DURABILITY, CAREFULLY CRAFTED.

2436

OLDCASTLE FRP

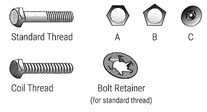
COVER OPTIONS

Polymer, Flush Solid



FASTENER OPTIONS

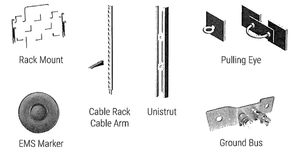
Hex Head Bolt (A)
Penta Head Bolt (B)
Penta Head Coil Thread Bolt (B)
Oldcastle Vandal Resistant Bolt (C)
Captive Bolt Retainer



ADD ON OPTIONS

EMS Marker
Mouseholes/Knockouts
Rack Mount
Cable Racks/Cable Arms
Unistrut
Pulling Eye - 1,000 lb and 3,000 lb
Ground Buss
Dividers
Racking Provision
Lid Gaskets*

* Lid Gaskets inhibit water flow into the box, they do not make enclosure fully waterproof.



WARNING: Cancer - www.P65Warnings.ca.gov

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No.	Revision	By	Date

9/21/2026
STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

LIGHTING DETAILS - (SHEET 1 OF 2)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C8.07

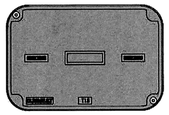
Plotted By: Solinas, Rene 2026-08-21 11:20:13
Last Saved: 2)) 2026-08-21 09:43:40 (LIGHTING DETAILS - (SHEET 1 OF
Filename: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\lighting plan.dwg

2436F

OLDCASTLE FRP

COVER OPTIONS

Polymer, Flush Solid



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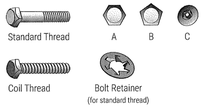
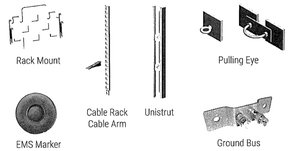
Oldcastle Vandal Resistant Bolt (C)
Captive Bolt Retainer



ADD ON OPTIONS

EMS Marker
Mouseholes/Knockouts
Rack Mount
Cable Racks/Cable Arms
Unistrut
Pulling Eye - 1,000 lb and 3,000 lb
Ground Buss
Dividers
Racking Provision
Lid Gaskets*

* Lid Gaskets inhibit water flow into the box, they do not make enclosure fully waterproof.



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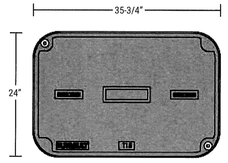
OLDCASTLE FRP



COVER

Style:	Flush
Material:	Polymer Concrete
Model:	24" x 36"
Std. Fasteners:	1/2-13 Stainless Steel Hex Head Bolt, Washer and Floating Nut
Options:	Logos and Special Markings
Surface:	Slip Resistant
Performance:	ANSI/SCTE-77 Tier 15

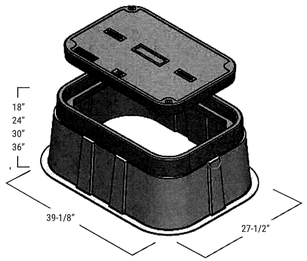
BODY

Material:	Fiber Reinforced Polymer w/ Polymer Concrete Ring
Model:	24" x 36"
Depths:	18", 24", 30", 36"
Wall Type:	Flared
Performance:	ANSI/SCTE-77 Tier 15

LOAD RATING / NOTES

MEDIUM DUTY
ANSI/SCTE TIER 15

For use in non-vehicular traffic situations only. Weights and dimensions may vary slightly. Actual load rating is determined by the box and cover combination.

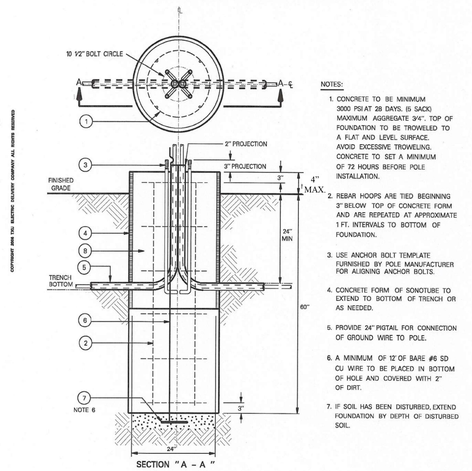


Oldcastle Infrastructure A CRH COMPANY
oldcastleinfrastructure.com
(800) 735-5566

213 – 320 04 – 06

STREET LIGHT FOUNDATION

213 – 320 04 – 06



NOTES:

1. CONCRETE TO BE MINIMUM 3000 PSI AT 28 DAYS. (6 SACK) MAXIMUM AGGREGATE 3/4". TOP OF FOUNDATION TO BE TROWELED TO A FLAT AND LEVEL SURFACE. AVOID EXCESSIVE TROWELING. CONCRETE TO SET A MINIMUM OF 72 HOURS BEFORE POLE INSTALLATION.
2. REBAR HOOPS ARE TIED BEGINNING 3" BELOW TOP OF CONCRETE FORM AND ARE REPEATED AT APPROXIMATE 1 FT. INTERVALS TO BOTTOM OF FOUNDATION.
3. USE ANCHOR BOLT TEMPLATE FURNISHED BY POLE MANUFACTURER FOR ALIGNING ANCHOR BOLTS.
4. CONCRETE FORM OF SONOTUBE TO EXTEND TO BOTTOM OF TRENCH OR AS NEEDED.
5. PROVIDE 24" PIGTAIL FOR CONNECTION OF GROUND WIRE TO POLE.
6. A MINIMUM OF 12' OF BARE #6 SD CU WIRE TO BE PLACED IN BOTTOM OF HOLE AND COVERED WITH 2" OF DIRT.
7. IF SOIL HAS BEEN DISTURBED, EXTEND FOUNDATION BY DEPTH OF DISTURBED SOIL.

ITEM	QTY	DESCRIPTION	TSN/REF	CU	MU
1	6	#3 REBAR, 18 IN. DIAMETER HOOP, 3 IN. OVERLAP	314470	SLF25	
2	4	#5 REBAR, STRAIGHT, 60 IN. LONG	317921		
3	4	ANCHOR BOLT, GALVANIZED 1" DIA. X 36" x 3" GALVANIZED	318686		
4	AS REQD	CONCRETE FOUNDATION TUBE, 24 IN. DIAMETER	313341		
5	AS REQD	CONDUIT, PVC OR TEC (NOT IN FOUNDATION AUX)			
6	.5 LB	WIRE, #6 COPPER, SOLID	303244		
7	1	GROUND, POLE BUTT WIRE COIL			
8	AS REQD	CONCRETE			
	1	FND, PRECAST, 10.5" BC, 1" ANCHOR BOLTS	338699	SLF925	

APPROVED BY TXU ONCOR

FOUNDATION FOR 25FT. OR 30FT. ROUND STEEL STREETLIGHT POLE:

Cobra Head Luminaire

213 - 105
12 - 19

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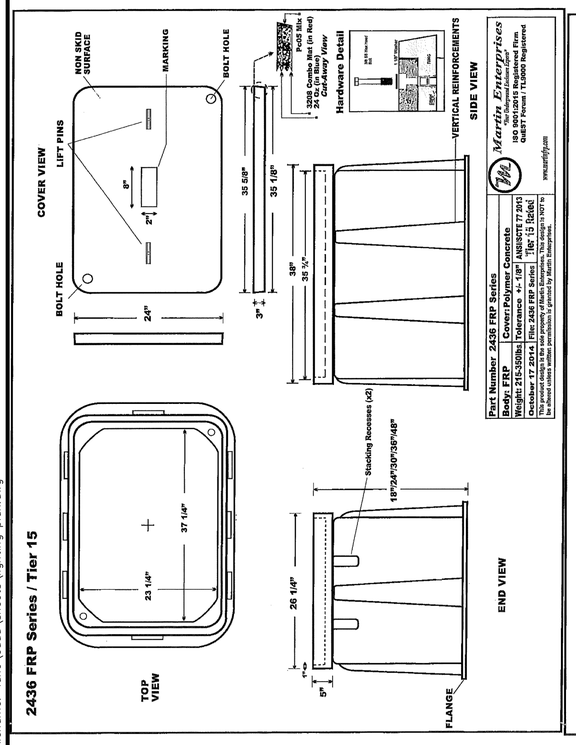
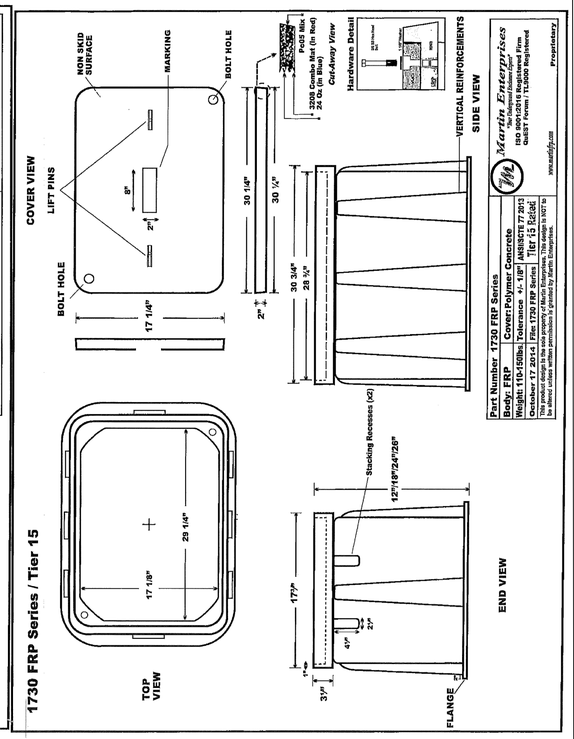
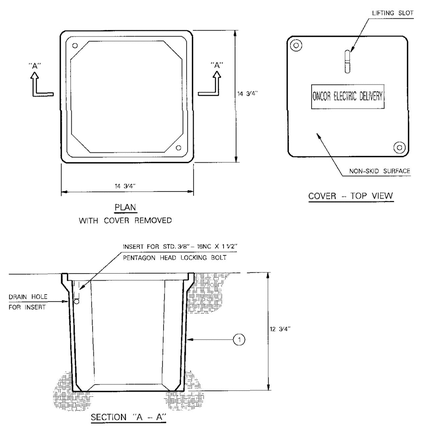




213 – 120 06 – 09

STREET LIGHT SECONDARY CONNECTION BOX

213 – 120 06 – 09

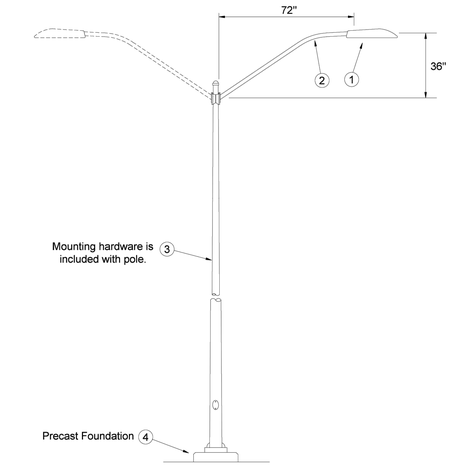


NOTES:

1. FOR USE WHEN CONDUCTOR SIZE AND NUMBER OF TERMINATIONS WARRANT.
2. H-10 (LIGHT VEHICULAR TRAFFIC LOADING).
3. REPLACEMENT COVER TSN IS 326507.

ITEM	QTY	DESCRIPTION	TSN/REF	CU	MU
1		BOX, SECONDARY 12" X 12" X 12"	303356	SLSCB	

APPROVED BY ONCOR



Item	Qty	Description	TSN/Ref	CU
1	0-1	LED, Luminaire, Cobra Head, 0-55 W, Type III, 120-277 V	902644	LEDCH55
1	0-1	LED, Luminaire, Cobra Head, 56-100 W, Type III, 120-277 V	902645	LEDCH100
1	0-1	LED, Luminaire, Cobra Head, 101-140 W, Type III, 120-277 V	902646	LEDCH140
1	0-1	LED, Luminaire, Cobra Head, 141-180 W, Type III, 120-277 V	902647	LEDCH180
1	0-1	LED, Luminaire, Cobra Head, 181-256 W, Type III, 120-277 V	902648	LEDCH256
1	0-1	High Pressure Sodium Luminaire		
2	1	Bracket, Galvanized Steel		
3	1	Round Pole, Galvanized Steel, Anchor Base		
4	1	Precast Foundation		
5	1	Grounding	213-020	
6	1	Fusing	213-025	

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ONCOR

Kimley»Horn
807 Cherry Street, Suite 1300, Unit 11, Fort Worth, TX 76102 (817) 335-6511 Registration Number F-928

No.	Revision	By	Date

8/21/2026
STATE OF TEXAS — MARSHALL D. CHRISTIAN — 98384 — LICENSED PROFESSIONAL ENGINEER

CITY OF MIDLOTHIAN
MOCKINGBIRD LANE
2021 BOND PROJECT

LIGHTING DETAILS - (SHEET 2 OF 2)

DATE: AUGUST 2026
DESIGN: ALC
DRAWN: JSE
CHECKED: MDC
KHA NO.: 061265047

SHEET NUMBER
C8.08

2026-08-21 11:20:25, Salinas, Rene
2026-08-21 09:43:40 (LIGHTING DETAILS – (SHEET 2 OF 2))
Plotted, By:
Last Saved: k:\ftw_roadway\061265047_midlothian mockingbird lane\cadd\sheets\lighting plan.dwg
Filename:

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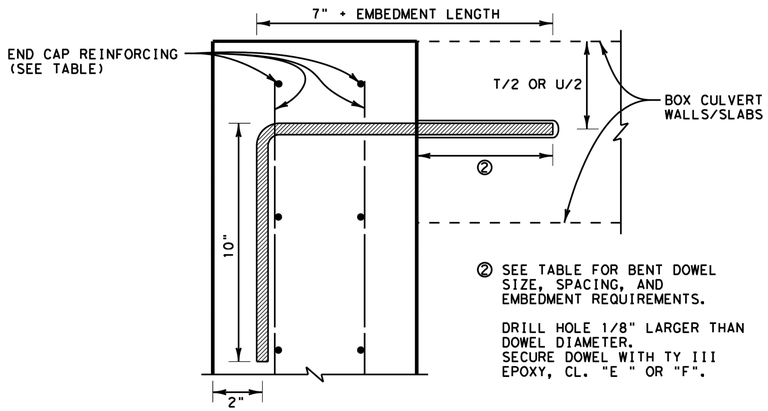
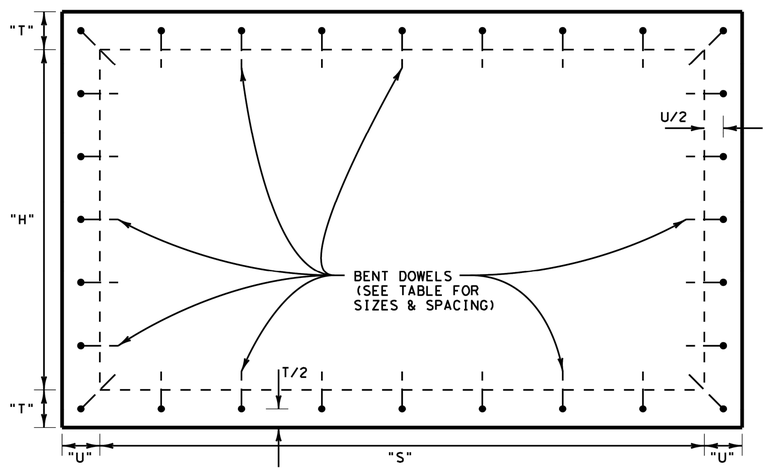


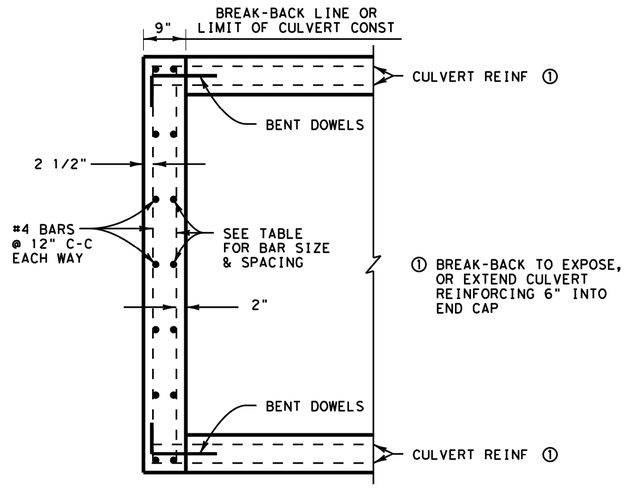
BENT DOWEL DETAIL
N. T. S.
(SEE TABLE FOR SIZES AND SPACING)

BENT DOWEL SIZE/SPACING/EMBEDMENT			
"T" OR "U" (IN)	SIZE	SPACING	EMBEDMENT
4"	#3	6"	4"
5"	#4	8"	5"
6"	#4	8"	6"
> 6"	#5	12"	6"

BOX CULVERT - END CAP REINFORCEMENT				
"S" OR "H" (MAX)	INSIDE MAT OF REINFORCING			
	MAX FILL ≤ 15'		15' < MAX FILL ≤ 30'	
	SIZE	SPACING	SIZE	SPACING
< 4'	4	12"	4	12"
5'	4	12"	4	10"
6'	4	12"	5	11"
7'	4	10"	5	9"
8'	5	12"	6	9"
9'	5	10"	6	8"
10'	5	9"	6	7"
11'	5	8"	6	6"
12'	5	8"	6	6"
OUTSIDE MAT OF REINFORCING: # 4 BARS @ 12" C-C EA WAY				



FRONT ELEVATION VIEW
N. T. S.



SIDE ELEVATION VIEW
N. T. S.

GENERAL NOTES

1. ALL CONCRETE SHALL BE CLASS "C" EXCEPT AS NOTED.
2. ALL REINFORCING STEEL SHALL BE GRADE 60.
3. DIMENSTIONS RELATING TO REINFORCING ARE TO CENTERS OF BARS.
4. PERMANENT FORMS MAY BE USED FOR INTERIOR FACE OF CAP.
5. WHEN CONSTRUCTED IN CONJUNCTION WITH NEW CULVERT INSTALLATION, END CAP MAY BE FORMED MONOLITHICALLY WITH CULVERT. FOR PRECAST CULVERT END CAPS, USE CLASS "H"CONCRETE, (MINIMUM DESIGN STRENGTH = 5000 PSI) AND SUBMIT SEALED ENGINEERING CALCULATIONS AND DRAWINGS FOR APPROVAL PRIOR TO FABRICATION

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Texas Department of Transportation

Fort Worth District Standard

BOX CULVERT END CAP DETAILS
BC-ECD (FTW)

ORIGINAL DRAWING: 05/2019	BC-ECD-FTW.DGN	FED.RD. DIV.NO.	PROJECT NO.	SHEET NO.
DATE	REVISIONS	6		
05/2019	REPLACES CEC (FW)	STATE	STATE DIST.NO.	COUNTY
		TEXAS	FTW	
		CONT.	SECT.	JOB / HIGHWAY NO.

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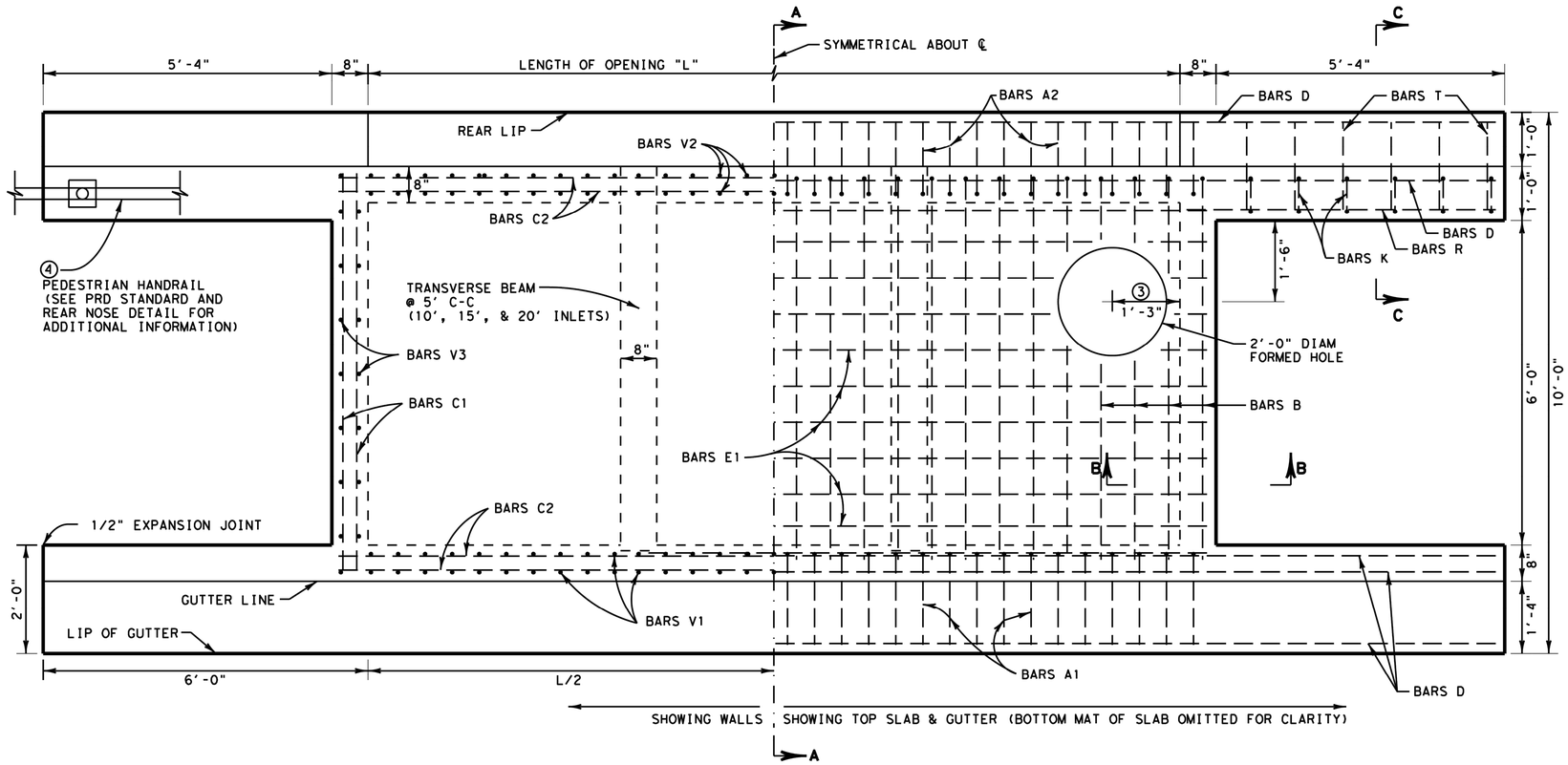
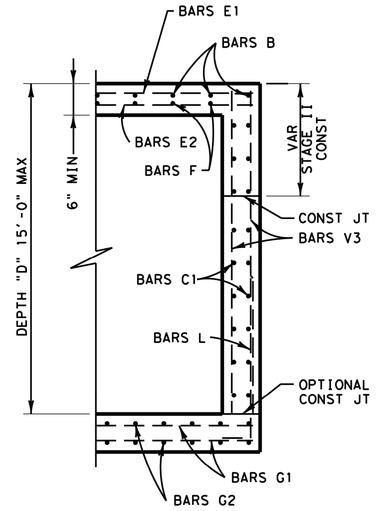
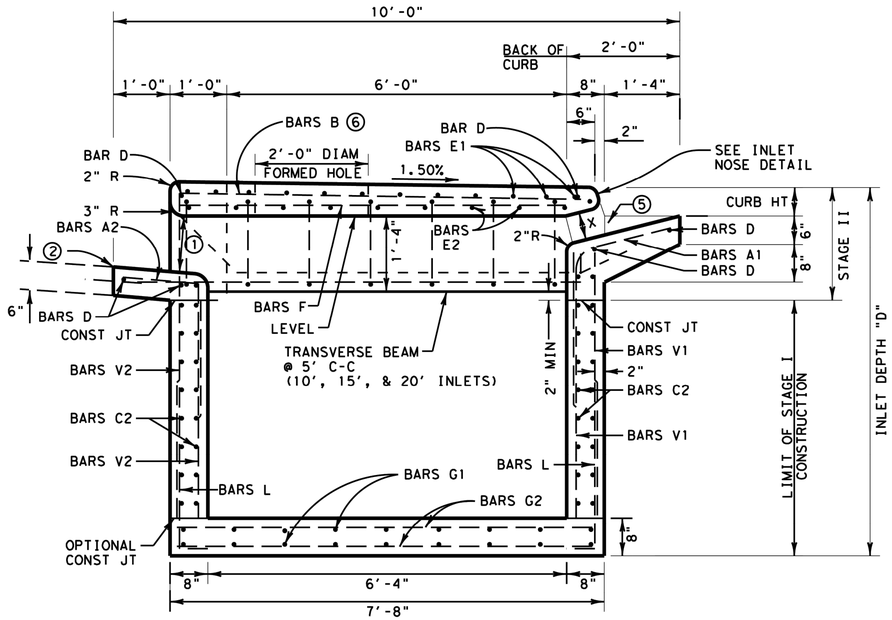


PLAN VIEW
N.T.S.



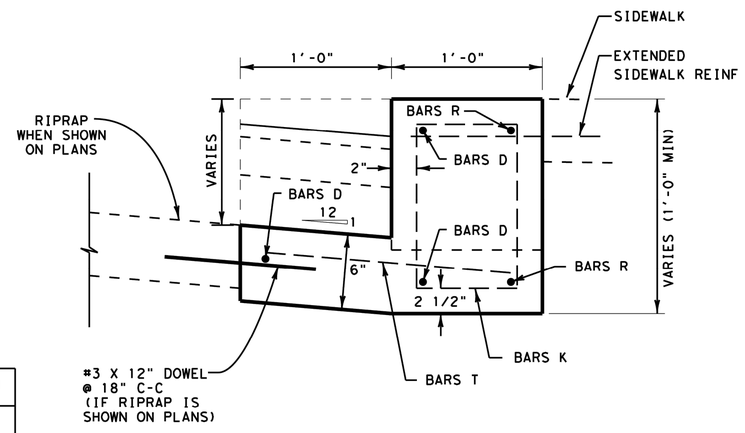
SECTION B-B
N.T.S.

1. 12" OPENING AT MIDPOINT OF INLET
2. REAR LIP AT CONSTANT ELEVATION ACROSS OPENING
3. PLACE RING & COVER AT OUTFALL END OF INLET, UNLESS OTHERWISE DIRECTED
4. HANDRAIL REQUIRED IF SIDEWALK IS PRESENT
5. 4" DEPRESSION AT GUTTER LINE
6. BARS B TO BE CONTINUOUS ACROSS REAR OPENING



SECTION A-A
N.T.S.

THROAT DIMENSION	
CURB HEIGHT	"X"
5"	5"
6"	5 7/8"
7"	6 1/4"
8"	6 1/2"



SECTION C-C
N.T.S.

SEE SHEET 2 OF 3 FOR GENERAL NOTES.

Texas Department of Transportation

Fort Worth District Standard

OPEN BACK CURB INLET FOR USE WITH TYPE II CURB
I-COB (FTW)

ORIGINAL DRAWING: 05/2019	icob-ftw.dgn	FED.RD. DIV.NO.	PROJECT NO.	SHEET NO.
DATE	REVISIONS	6		
05/2019	REPLACES C1 (3) (CB)-02 (FW) W C1 (3) (CB)-02 (FW)	STATE	STATE DIST.NO.	COUNTY
		TEXAS	FTW	
		CONT.	SECT.	JOB / HIGHWAY NO.

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http://www.dot.state.tx.us/ftw/specinfo/standard.htm
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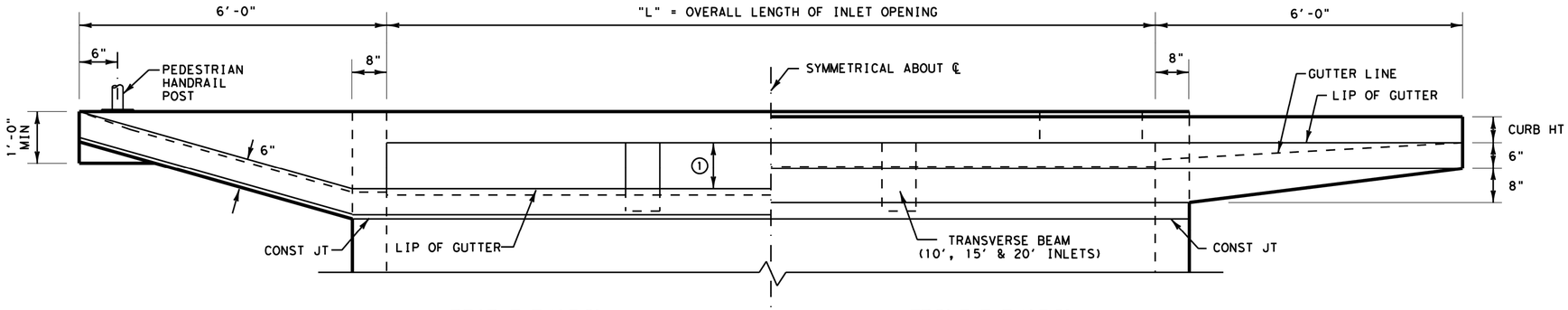
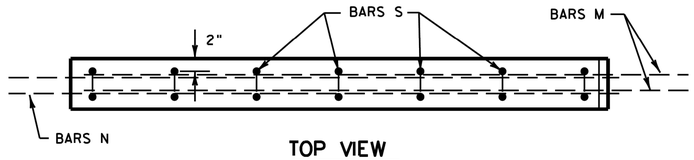
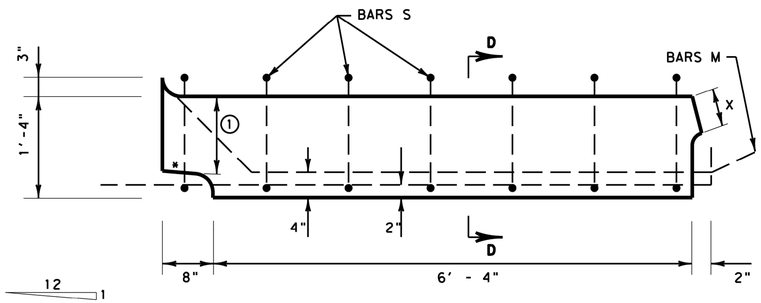


REAR ELEVATION
N.T.S.

FRONT ELEVATION
N.T.S.

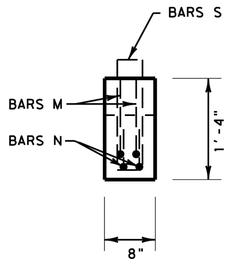


TOP VIEW
N.T.S.



① 12" AT MIDPOINT OF INLET

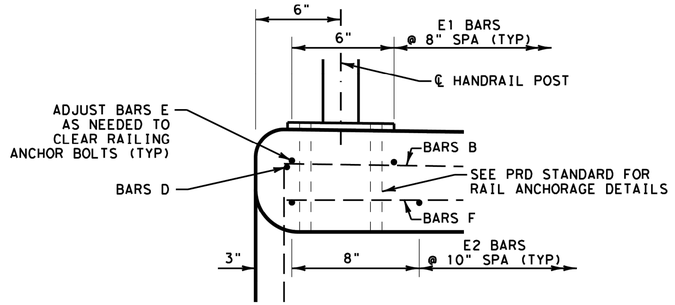
TRANSVERSE BEAM DETAILS
N.T.S.



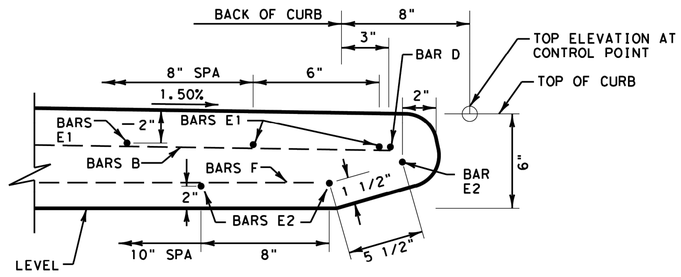
SECTION D-D
N.T.S.

GENERAL NOTES

1. DESIGNED ACCORDING TO AASHTO LRFD SPECIFICATIONS FOR PEDESTRIAN LOADING AND HL-93 LOADING UNDER "EXTREME EVENT II" LOAD COMBINATION.
2. ALL CONCRETE FOR CAST-IN-PLACE STRUCTURES SHALL BE CLASS "C"; ALL CONCRETE FOR PRECAST STRUCTURES SHALL BE CLASS "H" (MIN 5000 PSI COMPRESSIVE STRENGTH).
3. ALL REINFORCING STEEL SHALL BE GRADE 60.
4. STAGE I MAY BE EITHER CAST-IN-PLACE OR PRECAST. FABRICATE PRECAST STRUCTURES USING REBAR AS DETAILED HEREON, WITH BARS A1, A2, V1 AND V3 TO BE INCLUDED WITH STAGE I. SPLICING OF BARS WILL NOT BE PERMITTED, EXCEPT AS NOTED.
5. STAGE II SHALL BE CAST-IN-PLACE.
6. CHAMFER ALL EXPOSED CORNERS 3/4", EXCEPT WHERE NOTED OTHERWISE.
7. DIMENSIONS RELATING TO REINFORCING STEEL ARE TO THE CENTERS OF BARS.
8. FIELD CUT AND BEND BARS AS NECESSARY TO ACCOMMODATE STORM DRAIN PIPE.
9. FOR PIPE AND BOX CONNECTIONS TO PRECAST STRUCTURES, SEE STANDARD DETAIL SHEET PBGC.
10. INSTALL RING AND COVER AT OUTFALL END OF INLET, UNLESS OTHERWISE DIRECTED. CAST IRON RING AND COVER SHALL CONFORM TO ITEM 471. SEE STANDARD MDD (FTW) FOR RING AND COVER DETAILS.
11. DEPTHS OTHER THAN THOSE SHOWN MAY BE USED WHENEVER NECESSARY, UP TO A MAXIMUM DEPTH OF 15'. QUANTITIES FOR OTHER DEPTHS MAY BE DETERMINED BY INTERPOLATION.
12. DO NOT COMMENCE WITH STAGE II CONSTRUCTION UNTIL CONCRETE PAVEMENT AND CURB, OR CONCRETE CURB AND GUTTER CONSTRUCTION IS COMPLETED AT THE INLET SITE.
13. INSTALL A TEMPORARY WOOD COVER AFTER STAGE I IS COMPLETED, TO REMAIN IN PLACE UNTIL STAGE II CONSTRUCTION BEGINS.
14. THE LOCATION OF INLET AS SHOWN IN THE PLAN REFERS TO THE CONTROL POINT AT THE FACE OF CURB AND MID-POINT OF THE INLET.
15. PLACE A SEALED 1/2" EXPANSION JOINT ALONG ALL VERTICAL FACES ABUTTING CONCRETE PAVEMENT, CURB, CURB AND GUTTER, OR SIDEWALK. USE CLASS 5 OR 8 JOINT SEALANT TO SEAL THE JOINT. SEE STANDARD JS (FTW) FOR ADDITIONAL INFORMATION.



REAR NOSE DETAIL
N.T.S.



INLET NOSE DETAIL
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Fort Worth District Standard

OPEN BACK CURB INLET FOR USE WITH TYPE II CURB
I-COB (FTW)

ORIGINAL DRAWING: 05/2019	icob-ftw.dgn	FED. RD. DIV. NO.	PROJECT NO.	SHEET NO.
DATE	REVISIONS	6		
05/2019	REPLACES C1-21(108)-02(FW) & C1-21(108)-02 (FW)	STATE	STATE DIST. NO.	COUNTY
		TEXAS	FTW	
		CONT.	SECT.	JOB / HIGHWAY NO.

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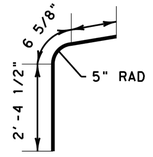
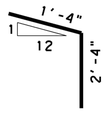
Depth "D"	Length "L"	Bars A1			Bars A2			Bars B			Bars C1			Bars C2			Bars D			Bars E1			Bars E2			Bars F			Bars G1		
		#4 at 6'' Spa			#4 at 6'' Spa			#4 at 7.5'' Spa			#5 at 6'' Spa			#5 at 6'' Spa			#4			#5 at 8'' Spa			#5 at 10'' Spa			#4 at 7.5'' Spa			#5 at 12'' Spa		
(ft)	(ft)	No	Length	Wt	No	Length	Wt	No	Length	Wt	No	Length	Wt	No	Length	Wt	No	Length	Wt	No	Length	Wt	No	Length	Wt	No	Length	Wt	No	Length	Wt
4.0	5.0	13	4.323	38	13	3.667	32	11	8.917	66	28	7.417	217	19	6.000	119	6	16.667	67	12	6.000	75	10	6.000	63	9	6.802	41	18	6.000	113
4.0	10.0	23	4.323	66	23	3.667	56	19	8.917	113	28	7.417	217	19	11.000	218	6	21.667	87	12	11.000	138	10	11.000	115	17	6.802	77	18	11.000	207
4.0	15.0	33	4.323	95	33	3.667	81	27	8.917	161	28	7.417	217	19	16.000	317	6	26.667	107	12	16.000	200	10	16.000	167	25	6.802	114	18	16.000	300
4.0	20.0	43	4.323	124	43	3.667	105	35	8.917	208	28	7.417	217	19	21.000	416	6	31.667	127	12	21.000	263	10	21.000	219	33	6.802	150	18	21.000	394

Depth "D"	Length "L"	Bars G2			Bars K			Bars L			Bars M			Bars N			Bars R			Bars S			Bars T			Bars V1			Bars V2		
		#5 at 6'' Spa			#3 at 12'' Spa			#5 at 6'' Spa			#4			#4			#4			#4 at 13'' Spa			#3 at 12'' Spa			#5 at 6'' Spa			#5 at 6'' Spa		
(ft)	(ft)	No	Length	Wt	No	Length	Wt	No	Length	Wt	No	Length	Wt	No	Length	Wt	No	Length	Wt	No	Length	Wt	No	Length	Wt	No	Length	Wt	No	Length	Wt
4.0	5.0	26	7.417	201	12	4.333	20	32	3.750	125	0	8.500	0	0	8.583	0	4	5.708	15	0	4.250	0	12	1.667	8	20	2.833	59	20	2.000	42
4.0	10.0	46	7.417	356	12	4.333	20	52	3.750	203	2	8.500	11	2	8.583	11	4	5.708	15	7	4.250	20	12	1.667	8	40	2.833	118	40	2.000	83
4.0	15.0	66	7.417	511	12	4.333	20	72	3.750	282	4	8.500	23	4	8.583	23	4	5.708	15	14	4.250	40	12	1.667	8	60	2.833	177	60	2.000	125
4.0	20.0	86	7.417	665	12	4.333	20	92	3.750	360	6	8.500	34	6	8.583	34	4	5.708	15	21	4.250	60	12	1.667	8	80	2.833	236	80	2.000	167

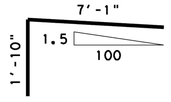
Depth "D"	Length "L"	Bars V3			Total Reinf Steel	Steel Qty Adjust.	Class "C" Concrete	Concrete Qty Adjust.
		#5 at 12'' Spa			Weight	P.L.F.		P.L.F.
(ft)	(ft)	No	Length	Wt	(Lb)	(Lb)	(CY)	(CY)
4.0	5.0	28	3.833	112	1,410	182.9	6.2	0.63
4.0	10.0	28	3.833	112	2,251	266.3	9.1	0.87
4.0	15.0	28	3.833	112	3,093	349.8	12.0	1.12
4.0	20.0	28	3.833	112	3,934	433.2	14.8	1.37



BARS A1
#4 @ 6" C-C



BARS A2
#4 @ 6"



BARS B
#4 @ 7.5" C-C

7'-5"

BARS C1
#5 @ 6" C-C

"L" + 1'-0"

BARS C2
#5 @ 6" C-C

"L" + 1'-0"

BARS G1
#5 @ 12" C-C

"L" + 11'-8"

BARS D
#4 AS SHOWN

"L" + 1'-0"

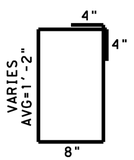
BARS E
E1 - #5 @ 8" MAX
E2 - #5 @ 10" MAX

6'-9 5/8"

BARS F
#4 @ 7.5" C-C

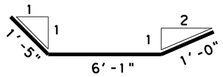
7'-5"

BARS G2
#5 @ 6" C-C

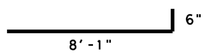


BARS K
#3 @ 12" C-C

BARS L
#5 @ 6" C-C



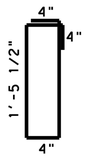
BARS M
#4 AS SHOWN



BARS N
#4 AS SHOWN

5'-8 1/2"

BARS R
#4 AS SHOWN



BARS S
#4 @ 13" C-C

1'-8"

BARS T
#3 @ 12" C-C

BARS V1
#5 @ 6" C-C

BARS V2
#5 @ 6" C-C

BARS V3
#5 @ 12" C-C

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SHEET 3 OF 3 SHEETS

Texas Department of Transportation

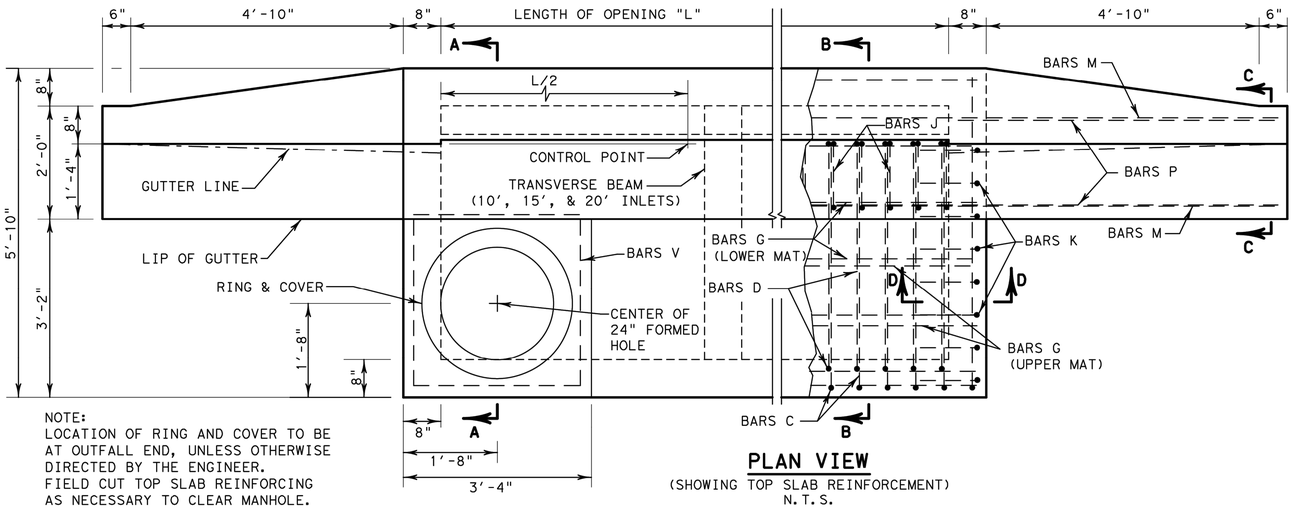
Fort Worth District Standard

OPEN BACK CURB INLET FOR USE WITH TYPE II CURB
I-COB (FTW)

ORIGINAL DRAWING: 05/2019	icob-ftw.dgn	FED.RD. DIV.NO.	PROJECT NO.	SHEET NO.
DATE	REVISIONS	6		
05/2019	REPLACES I-COB-02 (FTW)	STATE	STATE DIST.NO.	COUNTY
		TEXAS	FTW	
		CONT.	SECT.	JOB / HIGHWAY NO.

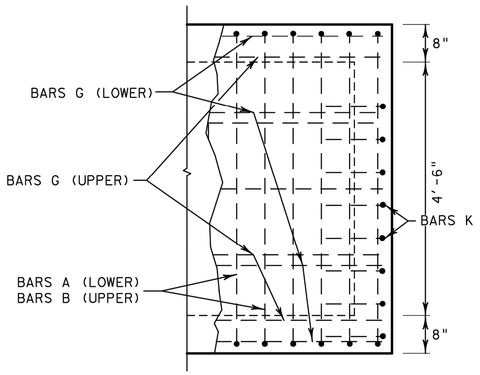
http://www.dot.state.tx.us/ftw/specinfo/standard.htm
9/3/2019 5:58:57 PM
T:\CENTDESN\District Hydraulics\Inlet Standards Update\100% website\drainage\icob-ftw.dgn

DISCLAIMER :
THE USE OF THIS STANDARD IS GOVERNED BY THE "TEXAS ENGINEERING PRACTICE ACT". NO WARRANTY OF ANY KIND IS MADE BY TXDOT FOR ANY PURPOSE WHATSOEVER. TXDOT ASSUMES NO RESPONSIBILITY FOR THE CONVERSION OF THIS STANDARD TO OTHER FORMATS OR FOR INCORRECT RESULTS OR DAMAGES RESULTING FROM ITS USE.

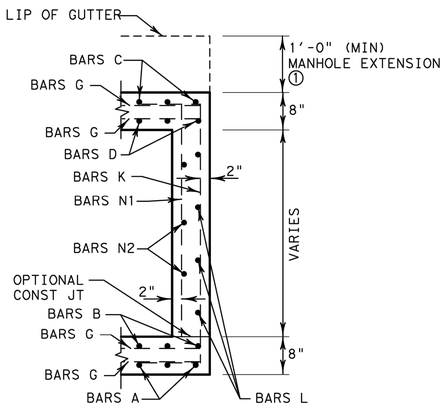


NOTE:
LOCATION OF RING AND COVER TO BE AT OUTFALL END, UNLESS OTHERWISE DIRECTED BY THE ENGINEER. FIELD CUT TOP SLAB REINFORCING AS NECESSARY TO CLEAR MANHOLE.

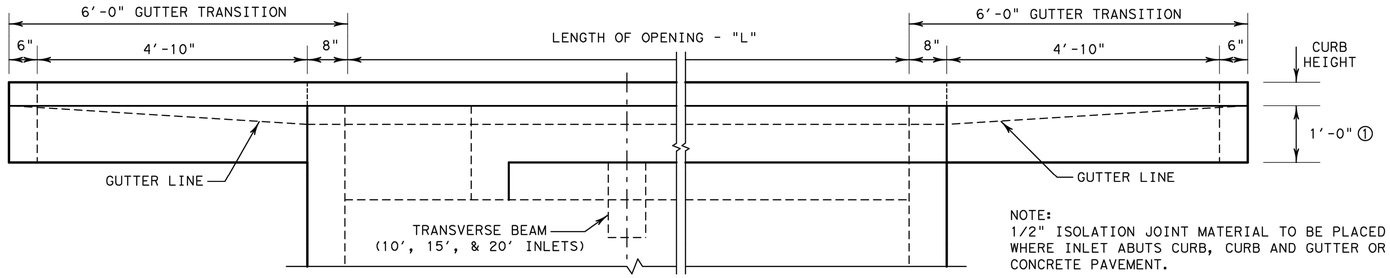
PLAN VIEW
(SHOWING TOP SLAB REINFORCEMENT)
N.T.S.



PARTIAL PLAN VIEW
(SHOWING BOTTOM SLAB REINFORCEMENT)
N.T.S.

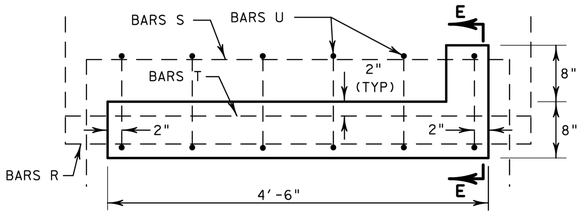


SECTION "D-D"
N.T.S.

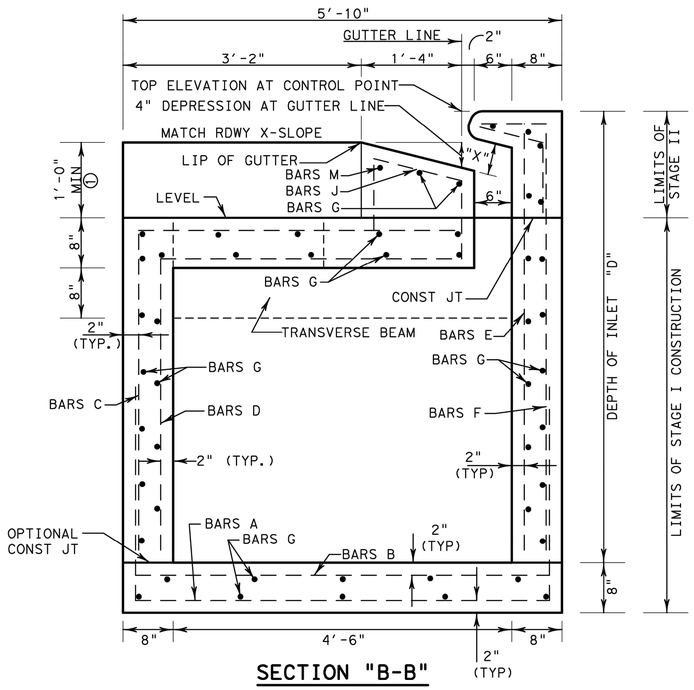


NOTE:
1/2" ISOLATION JOINT MATERIAL TO BE PLACED WHERE INLET ABUTS CURB, CURB AND GUTTER OR CONCRETE PAVEMENT.

FRONT ELEVATION VIEW
N.T.S.



TRANSVERSE BEAM DETAIL
BEAMS AT 5' C-C (10', 15', & 20' INLETS)
N.T.S.

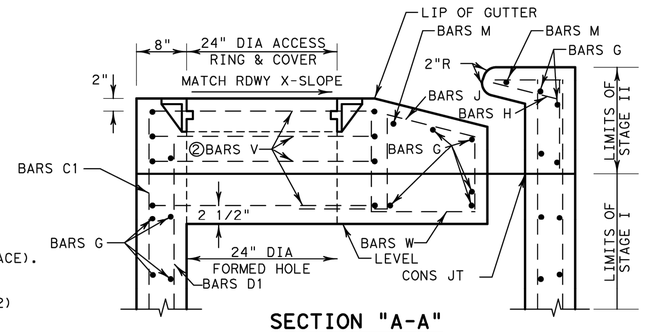


SECTION "B-B"
N.T.S.

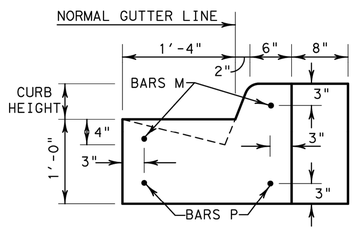
THROAT DIMENSION	
CURB HEIGHT (IN)	"X"
5	5"
6	5 7/8"
7	6 1/4"
8	6 1/2"

① MATCH DEPTH OF PAVEMENT STRUCTURE (BASE AND SURFACE). ADJUST BAR LENGTHS AS DIRECTED BY THE ENGINEER. (SEE DETAIL, SHEET 2 OF 2)

② STAGE II BARS V @ 3 EQUAL SPACES



SECTION "A-A"
N.T.S.



SECTION "C-C"
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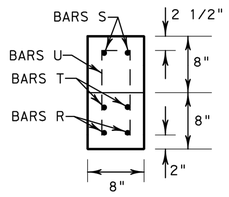

SECTION "E-E"
N.T.S.

MAXIMUM PARALLEL * CONDUIT SIZE	
PIPE DIAMETER (IN)	BOX SPAN (FT)
42	3

* PARALLEL TO ROADWAY

NOTE:
SEE SHEET 2 OF 2 FOR DETAILS OF REINFORCING STEEL, ESTIMATED QUANTITIES, AND GENERAL NOTES.

Texas Department of Transportation

Fort Worth District Standard

CURB INLET UNDER PAVEMENT FOR USE WITH TYPE II CURB I-CU (FTW)

ORIGINAL DRAWING: 05/2019	icu-ftw.dgn	FED.RD. DIV.NO.	PROJECT NO.	SHEET NO.
DATE	REVISIONS	6		
05/2019	NEW STANDARD	STATE	STATE DIST.NO.	COUNTY
04/2020	ADD MAX CONDUIT SIZE TABLE	TEXAS	FTW	
11/2020	REVISE JOINT NOMENCLATURE	CONT.	SECT.	JOB / HIGHWAY NO.

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http://www.dot.state.tx.us/ftw/specinfo/standard.htm
11/6/2020 12:07:19 PM
P:\PROJECTS\TXDT1612\1\5 FTW Standards Revision\CADD\Modifications in Progress\icu-ftw.dgn

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BILL OF REINFORCING STEEL FOR "D" = 6'

Length "L"	Bars A		Bars B		Bars C		Bars C1		Bars D		Bars D1		Bars E		Bars F		Bars G		Bars H		Bars J		Bars K		Bars L		Bars M		Bars N1		Bars N2	
	#5	at 6" Spa	#5	at 6" Spa	#5	at 6" Spa	#5	at 6" Spa	#5	at 6" Spa	#5	at 6" Spa	#5	at 6" Spa	#5	at 6" Spa	#5		#4	at 12" Spa	#4	at 12" Spa	#4	at 7" Spa	#5	at 6" Spa	#4		#4	at 12" Spa	#4	at 12" Spa
[ft]	No	Wt	No	Wt	No	Wt	No	Wt	No	Wt	No	Wt	No	Wt	No	Wt	No	Wt	No	Wt	No	Wt	No	Wt	No	Wt	No	Wt	No	Wt	No	Wt
5.0	13	151	13	75	6	54	7	39	4	38	7	37	11	67	13	90	54	338	7	9	7	21	16	72	14	138	2	22	10	29	8	29
10.0	23	268	23	132	16	145	7	39	14	131	7	37	21	128	23	160	54	620	12	15	12	35	16	72	14	138	2	29	10	29	8	29
15.0	33	384	33	189	26	235	7	39	24	225	7	37	31	189	33	229	54	901	17	21	17	50	16	72	14	138	2	36	10	29	8	29
20.0	43	501	43	247	36	325	7	39	34	319	7	37	41	249	43	299	54	1183	22	27	22	65	16	72	14	138	2	42	10	29	8	29

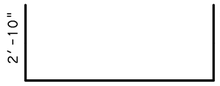
BILL OF REINFORCING STEEL FOR "D" = 6' (CONTINUED)

Length "L"	Bars P		Bars R		Bars S		Bars T		Bars U		Bars V		Bars W	
	#4		#6		#6		#6		#4	at 10" Spa	#4		#4	
[ft]	No	Wt	No	Wt	No	Wt	No	Wt	No	Wt	No	Wt	No	Wt
5.0	4	15	0	0	0	0	0	0	0	0	4	35	6	11
10.0	4	15	2	23	2	21	2	17	6	13	4	35	6	11
15.0	4	15	4	45	4	43	4	33	12	26	4	35	6	11
20.0	4	15	6	68	6	64	6	50	18	39	4	35	6	11

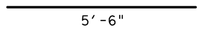
SUMMARY OF QUANTITIES

Total Reinf Steel Weight	Steel Qty Adjust. P.L.F.	Class "C" Concrete	Concrete Qty Adjust. P.L.F.
[Lb]	[Lb]	[CY]	[CY]
1,269	157.9	5.43	0.54
2,139	236.1	8.31	0.78
3,010	314.3	11.19	1.03
3,881	392.5	14.07	1.28

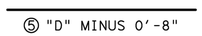
* BASED ON 6" CURB HEIGHT. ADJUST FOR OTHER CURB HEIGHTS.



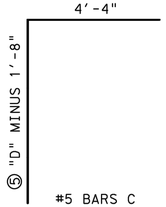
#5 BARS A



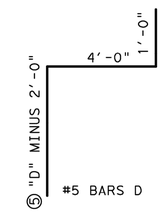
#5 BARS B



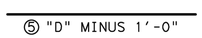
#5 BARS C1



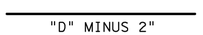
#5 BARS C



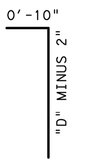
#5 BARS D



#5 BARS D1

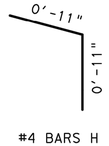


#5 BARS E

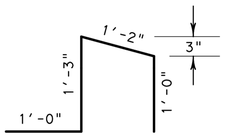


#5 BARS F

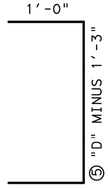
⑤ BASED ON 6" CURB HEIGHT. ADJUST FOR OTHER CURB HEIGHTS.



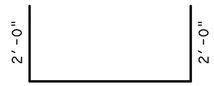
#4 BARS H



#4 BARS J

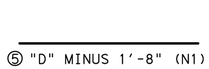


#4 BARS K



#5 BARS L

#4 BARS M
PLACE AS SHOWN

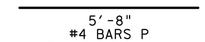


#5 BARS G

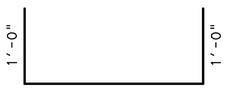
BAR G SPACING:

BOTTOM SLAB, LOWER MAT - 1'-4"
BOTTOM SLAB, UPPER MAT - 1'-2"
BACK WALL, OUTER MAT - 0'-6"
BACK WALL, INNER MAT - 0'-8"
FRONT WALL, OUTER MAT - 0'-6"
FRONT WALL, INNER MAT - 0'-8"
UPPER SLAB, LOWER MAT - 1'-0"
UPPER SLAB, UPPER MAT - 1'-0 3/4"
GUTTER - PLACE AS SHOWN

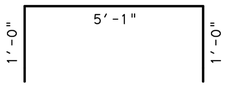
#4 BARS N



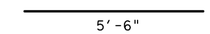
#4 BARS P
PLACE AS SHOWN



#6 BARS R
PLACE AS SHOWN



#6 BARS S
PLACE AS SHOWN



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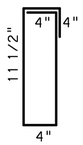
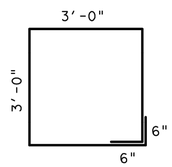
PLACE AS SHOWN



#4 BARS U



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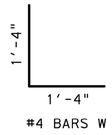
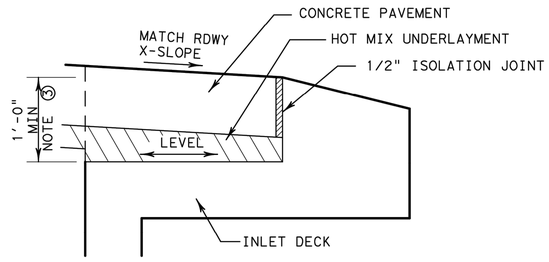


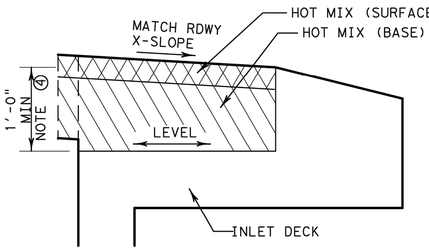
#4 BARS W

BARS W:
6 TOTAL TO BE PLACED AT 16" SPACING ALONG GUTTER SIDE AND INLET SIDE OF RING. (3 EACH SIDE)



③ THICKNESS OF CONCRETE PAVEMENT PLUS HOT MIX UNDERLAYMENT; IF LESS THAN 1'-0", INCREASE DEPTH OF HOT MIX UNDERLAYMENT.

INLET ADJACENT TO CONCRETE PAVEMENT



④ THICKNESS OF HOT MIX (SURFACE) PLUS HOT MIX (BASE) OR FLEX BASE. IF LESS THAN 1'-0", INCREASE DEPTH OF HOT MIX (BASE) OR FLEX BASE OVER INLET DECK.

MAXIMUM THICKNESS = 1'-6"

PLACE FLEX BASE IN MINIMUM 4" LIFTS

INLET ADJACENT TO HOT MIX PAVEMENT

GENERAL NOTES

1. DESIGNED FOR AASHTO LRFD HL-93 LOADING.
2. ALL CONCRETE FOR CAST-IN-PLACE STRUCTURES SHALL BE CLASS "C"; ALL CONCRETE FOR PRECAST STRUCTURES SHALL BE CLASS "H"(MINIMUM 5000 PSI DESIGN STRENGTH).
3. ALL REINFORCING STEEL SHALL BE GRADE 60.
4. STAGE I MAY BE EITHER CAST-IN-PLACE OR PRECAST. FABRICATE PRECAST STRUCTURES USING REBAR AS DETAILED HEREON, WITH BARS C, D, E, F AND J TO BE INCLUDED WITH STAGE I. SPLICING OF BARS WILL NOT BE PERMITTED, EXCEPT AS NOTED.
5. STAGE II SHALL BE CAST-IN-PLACE.
6. CHAMFER ALL EXPOSED CORNERS 3/4", EXCEPT WHERE NOTED OTHERWISE.
7. DIMENSIONS RELATING TO REINFORCING STEEL ARE TO THE CENTERS OF BARS.
8. FIELD CUT AND BEND BARS AS NECESSARY TO ACCOMMODATE STORM DRAIN PIPE.
9. FOR PIPE AND BOX CONNECTIONS TO PRECAST INLETS, SEE STANDARD DETAIL SHEET PBGC.
10. INSTALL RING AND COVER AT OUTFALL END OF INLET, UNLESS OTHERWISE DIRECTED. CAST IRON RING AND COVER SHALL CONFORM TO ITEM 471. SEE STANDARD MDD (FTW) FOR RING AND COVER DETAILS.
11. DEPTHS OTHER THAN THOSE SHOWN MAY BE USED WHENEVER NECESSARY, UP TO A MAXIMUM DEPTH OF 15'. QUANTITIES FOR OTHER DEPTHS MAY BE DETERMINED BY INTERPOLATION.
12. DO NOT COMMENCE WITH STAGE II CONSTRUCTION UNTIL CONCRETE PAVEMENT AND CURB, OR CONCRETE CURB AND GUTTER CONSTRUCTION IS COMPLETED AT THE INLET SITE.
13. INSTALL A TEMPORARY WOOD COVER AFTER STAGE I IS COMPLETED, TO REMAIN IN PLACE UNTIL STAGE II CONSTRUCTION BEGINS.
14. THE LOCATION OF INLET AS SHOWN IN THE PLAN REFERS TO THE CONTROL POINT AT THE FACE OF CURB AND MID-POINT OF THE INLET.
15. IF CONCRETE PAVEMENT IS PLACED WITHOUT UNDERLAYMENT, PLACE BOND BREAKER (3 LAYERS OF 30# ROOFING FELT OR 1/2" EXPANSION JOINT MATERIAL) BETWEEN INLET DECK AND CONCRETE PAVEMENT.
16. PLACE A SEALED 1/2" ISOLATION JOINT ALONG ALL VERTICAL FACES ABUTTING CONCRETE PAVEMENT, CURB, CURB AND GUTTER, OR SIDEWALK. USE CLASS 5 OR 8 JOINT SEALANT TO SEAL THE JOINT. SEE STANDARD JS (FTW) FOR ADDTIONAL INFORMATION.

Texas Department of Transportation

Fort Worth District Standard

CURB INLET UNDER PAVEMENT FOR USE WITH TYPE II CURB I-CU (FTW)

ORIGINAL DRAWING: 05/2019	icu-ftw.dgn	FED.RD. DIV.NO.	PROJECT NO.	SHEET NO.
DATE	REVISIONS	6		
05/2019	REPLACES CI-2-08(FW)	STATE	STATE DIST.NO.	COUNTY
04/2020	ADD MAX CONDUIT SIZE TABLE	TEXAS	FTW	
11/2020	REVISE JOINT NOMENCLATURE	CONT.	SECT.	JOB / HIGHWAY NO.

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http://www.dot.state.tx.us/ftw/specinfo/standard.htm
11/6/2020 12:07:39 PM
P:\PROJECTS\TXDT1612\1\5 FTW Standards Revision\CADD\Modifications in Progress\icu-ftw.dgn

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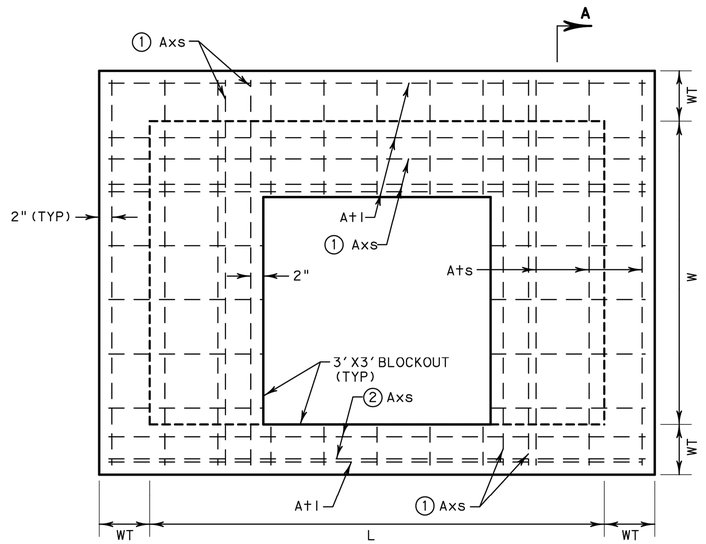
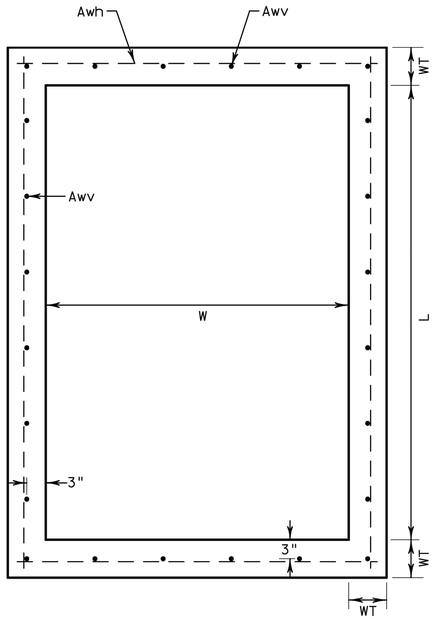
T:\Groups\00_KATY\PROJECTS\TXDT16121\5 FTW Standards Revision\CADD\SWA1\Standard Revisions\mibr-ftw.dgn

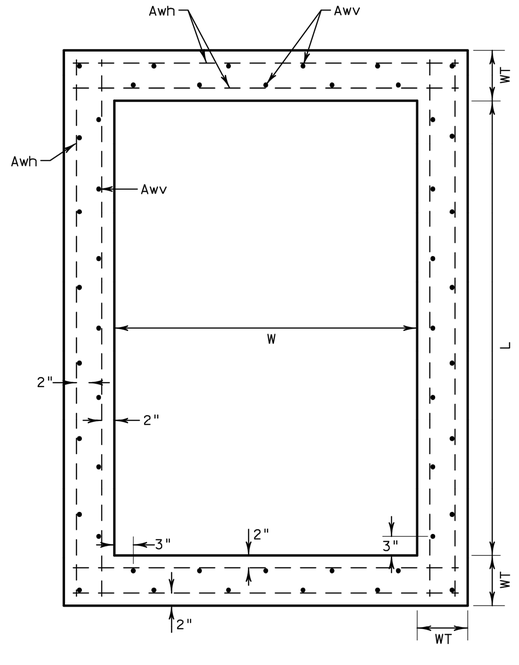
1. FOR STRUCTURES WHERE W=L PROVIDE BARS Axs IN BOTH LONG AND SHORT (L AND W) DIRECTIONS AS SHOWN, FOR L>W, BARS Axs ONLY REQUIRED.
2. BARS Axs MAY BE OMITTED IF DIRECTLY ABOVE THE WALL.



PLAN VIEW
SHOWING TOP SLAB REINFORCEMENT
N.T.S.

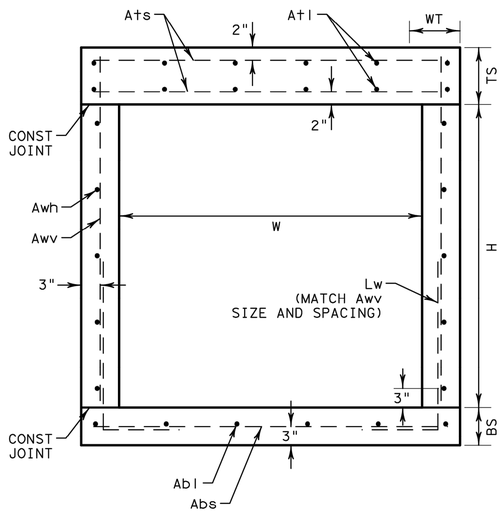


SINGLE LAYER REINFORCING
FOR WT = 6"

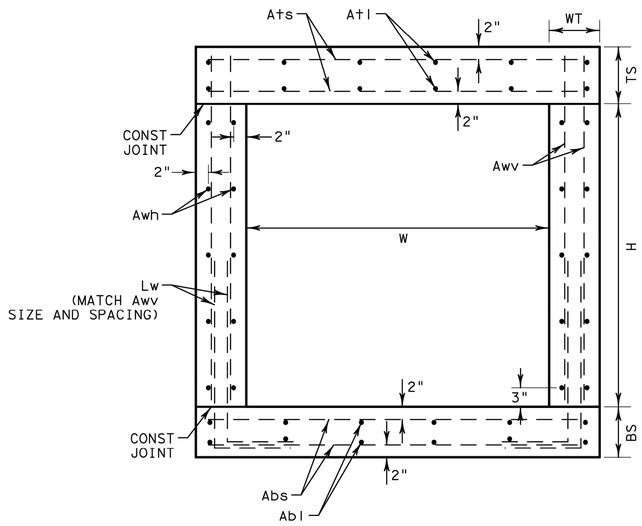


DOUBLE LAYER REINFORCING
FOR WT >/= 8"

PLAN VIEW
SHOWING WALL REINFORCEMENT
N.T.S.



SINGLE LAYER WALL REINFORCING
FOR BS = 6"
FOR WT = 6"



DOUBLE LAYER WALL REINFORCING
FOR BS >/= 8"
FOR WT >/= 8"

Maximum Conduit Size		
"L" Or "W"	Pipe Diam. (IN)	Box Span (FT)
3'	24	-
4'	36	3
5'	42	3
6'	54	4
7'	66	5
8'	78	6

GENERAL NOTES

1. DESIGNED FOR AASHTO LRFD HL 93 LOADING.
2. STRUCTURES MAY BE EITHER CAST-IN-PLACE OR PRECAST. FOR PRECAST STRUCTURES, SUBMIT SEALED ENGINEERING CALCULATIONS AND DRAWINGS FOR APPROVAL PRIOR TO FABRICATION.
3. USE CLASS "C" CONCRETE FOR CAST-IN-PLACE STRUCTURES; USE CLASS "H" CONCRETE (MINIMUM 5000 PSI DESIGN STRENGTH) FOR PRECAST STRUCTURES.
4. USE GRADE 60 STEEL FOR ALL REINFORCING.
5. DIMENSIONS RELATING TO REINFORCING STEEL ARE TO THE CENTERS OF BARS.
6. FIELD CUT AND BEND BARS AS NECESSARY TO ACCOMMODATE STORM DRAIN PIPE.
7. FOR PIPE OR BOX CONNECTIONS TO PRECAST STRUCTURES, SEE STANDARD PBGC.
8. LOCATION OF STRUCTURE AS SHOWN IN THE PLANS REFERS TO THE CONTROL POINT FOR THE SURFACE FEATURE INDICATED ON THE APPLICABLE STANDARD AND DETAILED ON THE "DRAINAGE STRUCTURE CONTROL DATA" SHEET. LOCATE AND POSITION BASE AS DETAILED ON THE DRAINAGE STRUCTURE CONTROL DATA SHEET, OR AS DIRECTED.

SECTION A-A
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SHEET 1 OF 2 SHEETS

Texas Department of Transportation

Fort Worth District Standard

MANHOLE AND INLET BASE AND RISER
MI-B&R (FTW) SHEET 1 OF 2

ORIGINAL DRAWING: 05/2019	mibr-ftw.dgn	FED.RD. DIV.NO.	PROJECT NO.	SHEET NO.
DATE	REVISIONS	6		
05/2019	NEW STANDARD	STATE	STATE DIST.NO.	COUNTY
07/2022	REVISE WALL THICKNESS; ADD MAX CONDUIT SIZE TABLE; REINFORCING FOR DEPTH > 15'; REVISE REINFORCING TABLE.	TEXAS	FTW	
		CONT.	SECT.	JOB	HIGHWAY NO.

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BILL OF REINFORCING STEEL

SIZE			MAX DEPTH = 25' TO TOP OF BASE SLAB										MAX DEPTH = 15' TO TOP OF BASE SLAB								
			BASE SLAB			WALL			TOP SLAB				BASE SLAB			WALL			TOP SLAB		
L	W	H	BS*	Abs	Abl	WT*	Awh	Awv	TS*	Ats	Axs**	Atl	BS*	Abs	Abl	WT*	Awh	Awv	TS*	Ats	Axs**	Atl
8'	8' or 7'	8' or 7'	9"	#5 AT 8"	#5 AT 8"	10"	#5 AT 8"	#5 AT 8"	12"	#5 AT 9"	2~#5	#5 AT 9"	9"	#5 AT 10"	#5 AT 10"	10"	#5 AT 10"	#5 AT 10"	12"	#5 AT 12"	1~#5	#5 AT 12"
8'	<=6'	8' or 7'	9"	#5 AT 8"	#5 AT 12"	9"	#5 AT 8"	#5 AT 8"	12"	#5 AT 10"	1~#5	#5 AT 12"	9"	#5 AT 10"	#5 AT 12"	9"	#5 AT 10"	#5 AT 10"	12"	#5 AT 12"	1~#5	#5 AT 12"
8'	8' or 7'	<=6'	9"	#5 AT 8"	#5 AT 8"	9"	#5 AT 8"	#5 AT 8"	12"	#5 AT 9"	2~#5	#5 AT 9"	9"	#5 AT 10"	#5 AT 10"	9"	#5 AT 10"	#5 AT 10"	12"	#5 AT 12"	1~#5	#5 AT 12"
8'	<=6'	<=6'	8"	#5 AT 8"	#5 AT 12"	8"	#5 AT 8"	#5 AT 8"	12"	#5 AT 10"	1~#5	#5 AT 12"	8"	#5 AT 10"	#5 AT 12"	8"	#5 AT 10"	#5 AT 10"	12"	#5 AT 12"	1~#5	#5 AT 12"
7'	7' or 6'	7' or 6'	9"	#5 AT 10"	#5 AT 10"	9"	#5 AT 9"	#5 AT 9"	10"	#5 AT 8"	2~#5	#5 AT 8"	9"	#4 AT 10"	#4 AT 10"	9"	#4 AT 9"	#4 AT 9"	10"	#5 AT 10"	1~#5	#5 AT 10"
7'	<=5'	7' or 6'	8"	#5 AT 9"	#5 AT 12"	8"	#5 AT 9"	#5 AT 9"	10"	#5 AT 8"	2~#5	#5 AT 12"	8"	#4 AT 9"	#4 AT 12"	8"	#4 AT 9"	#4 AT 9"	10"	#5 AT 10"	1~#5	#5 AT 12"
7'	7' or 6'	<=5'	8"	#5 AT 9"	#5 AT 9"	8"	#5 AT 9"	#5 AT 9"	10"	#5 AT 8"	2~#5	#5 AT 8"	8"	#4 AT 9"	#4 AT 9"	8"	#4 AT 9"	#4 AT 9"	10"	#5 AT 10"	1~#5	#5 AT 10"
7'	<=5'	<=5'	8"	#5 AT 9"	#5 AT 12"	8"	#5 AT 9"	#5 AT 9"	10"	#5 AT 8"	2~#5	#5 AT 12"	8"	#4 AT 9"	#4 AT 12"	8"	#4 AT 9"	#4 AT 9"	10"	#5 AT 10"	1~#5	#5 AT 12"
6'	6' or 5'	6' or 5'	8"	#5 AT 10"	#5 AT 10"	8"	#5 AT 9"	#5 AT 9"	9"	#5 AT 8"	2~#5	#5 AT 8"	8"	#4 AT 10"	#4 AT 10"	8"	#4 AT 8"	#4 AT 8"	9"	#5 AT 9"	1~#5	#5 AT 9"
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5'	5' or 4'	<=5'	8"	#4 AT 10"	#4 AT 10"	8"	#4 AT 10"	#4 AT 10"	9"	#5 AT 9"	1~#5	#5 AT 9"	6"	#4 AT 7"	#4 AT 7"	6"	#4 AT 7"	#4 AT 7"	9"	#5 AT 10"	1~#5	#5 AT 10"
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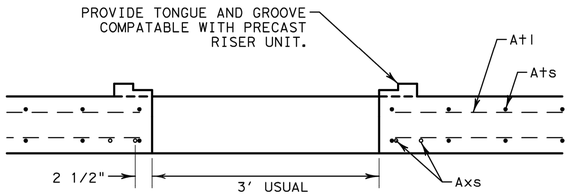
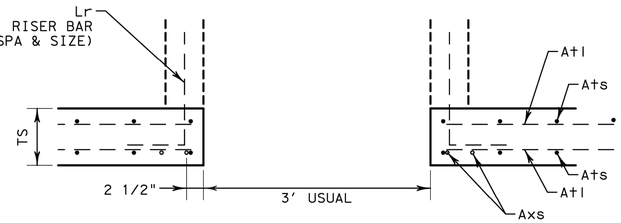
4'	4' or 3'	4' or 3'	8"	#4 AT 12"	#4 AT 12"	8"	#4 AT 12"	#4 AT 12"	9"	#4 AT 10"	1~#4	#4 AT 10"	6"	#4 AT 12"	#4 AT 12"	6"	#4 AT 12"	#4 AT 12"	9"	#4 AT 12"	1~#4	#4 AT 12"
3'	3'	3'	8"	#4 AT 12"	#4 AT 12"	8"	#4 AT 12"	#4 AT 12"	9"	#4 AT 12"	1~#4	#4 AT 12"	6"	#4 AT 12"	#4 AT 12"	6"	#4 AT 12"	#4 AT 12"	9"	#4 AT 12"	1~#4	#4 AT 12"

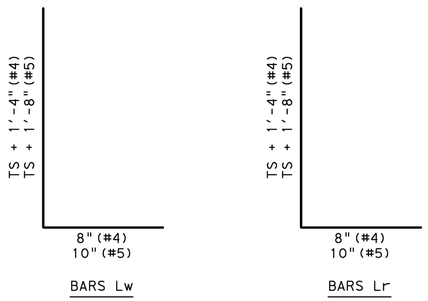
*PLACE TWO LAYERS OF REINFORCING MAT IN CONCRETE THICKNESSES EQUAL OR GREATER THAN 8". PLACE ONE LAYER OF REINFORCING MAT IN 6" THICK WALL/SLAB.
** ADDITIONAL REINFORCING BAR(S), Axs, REQUIRED AROUND BLOCKOUT PERIMETER. PLACE BARS Axs PARELLEL WITH BARS Ats IN THE SHORT DIRECTION. AND PLACE BARS Axs PARALLEL WITH BARS Atl IN THE LONG DIRECTION ONLY AS REQUIRED.
FOR TOP SLAB W=L, BAR(S) Axs ARE REQUIRED IN BOTH SHORT AND LONG DIRECTION.
IF TWO ADDITIONAL Axs BARS REQUIRED PER TABLE, PLACE THE SECOND Axs BAR AT 4" SPACING FROM THE FIRST Axs BAR IF THE Ats SPACING IS 8" OR GREATER, OTHERWISE BUNDLE WITH THE SECOND Ats BAR.

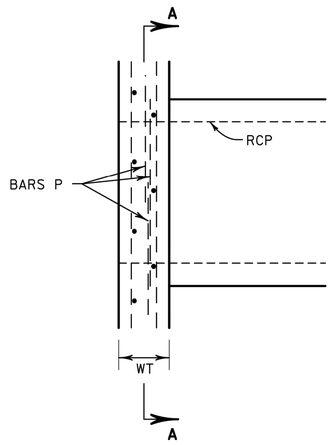


CONNECTION FOR PRECAST RISER
N.T.S.

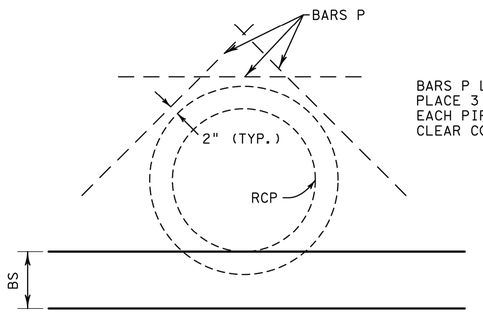


CONNECTION FOR CAST-IN-PLACE RISER
N.T.S.





PLAN VIEW



BARS P LENGTH = PIPE O.D. + 9"
PLACE 3 BARS P AS SHOWN AT EACH PIPE OPENING WITH 2" CLEAR COVER OVER PIPE.

SHOWING ONLY BARS P FOR CLARITY

SECTION A-A
N.T.S.

SUPPLEMENTAL REINFORCEMENT RCP CONNECTION (CAST-IN-PLACE ONLY)

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SHEET 2 OF 2 SHEETS

Texas Department of Transportation

Fort Worth District Standard

MANHOLE AND INLET BASE AND RISER
MI-B&R (FTW)
SHEET 2 OF 2

ORIGINAL DRAWING: 05/2019	mibr-ftw.dgn	FED.RD. DIV.NO.	PROJECT NO.	SHEET NO.
DATE	REVISIONS	6		
05/2019	NEW STANDARD	STATE	STATE DIST.NO.	COUNTY
07/2022	REVISE WALL THICKNESS & REINFORCING FOR DEPTH > 15'; REVISE REINFORCING TABLE.	TEXAS	FTW	
		CONT.	SECT.	JOB / HIGHWAY NO.

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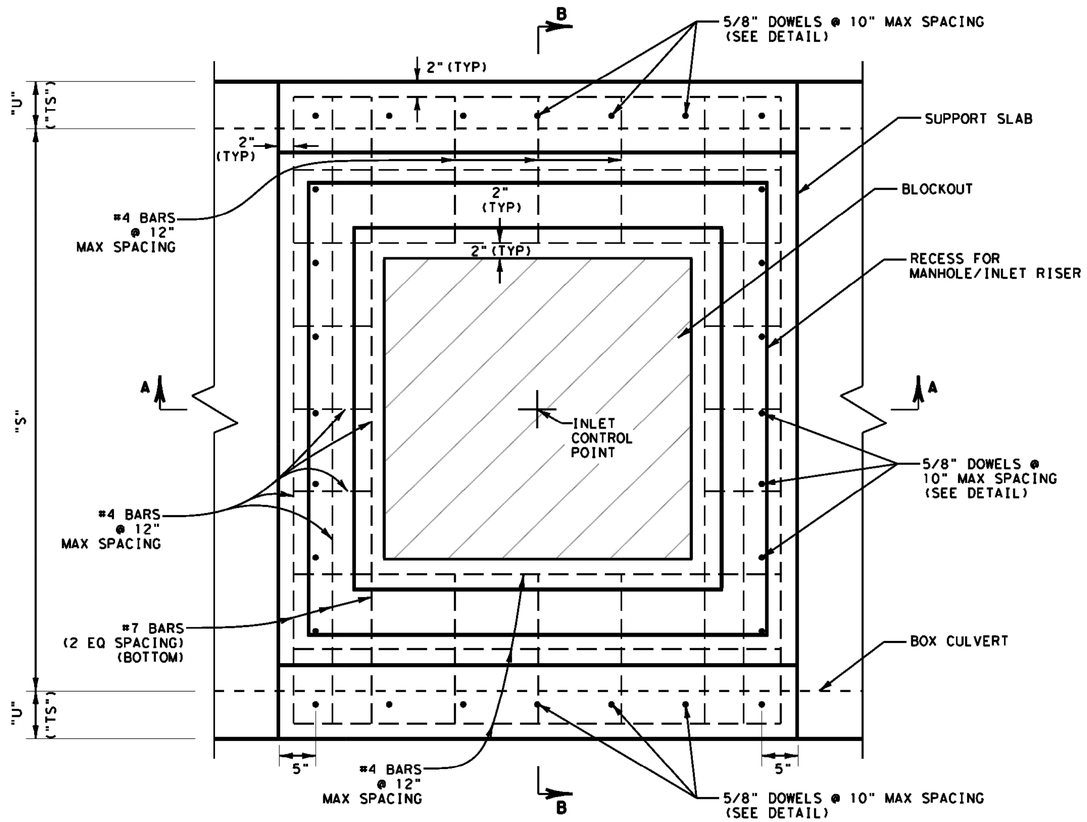
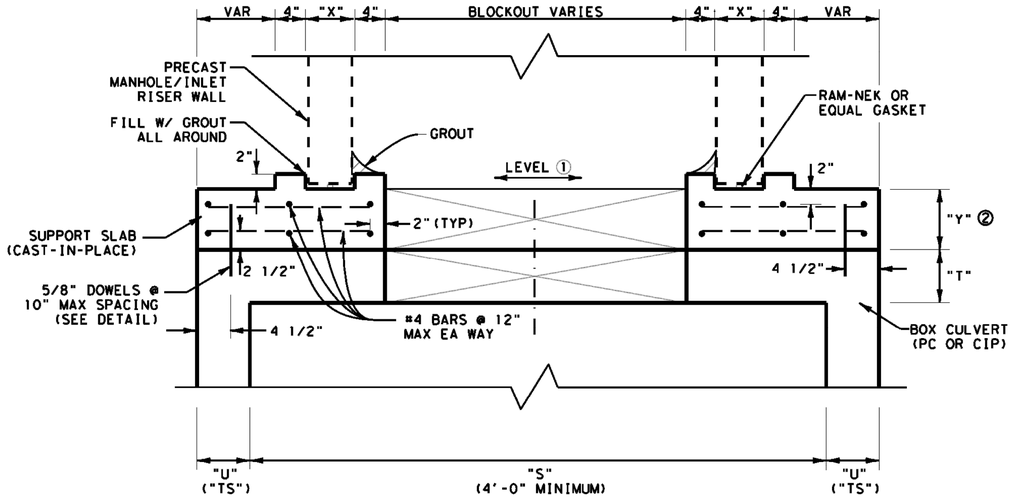


PLAN VIEW
N.T.S.



SECTION B-B
N.T.S.

NOTE:

"S" REFERS TO BOX CULVERT SPAN (4' MINIMUM)

"T" REFERS TO BOX CULVERT TOP SLAB THICKNESS

"U" AND "TS" REFERS TO BOX CULVERT WALL THICKNESS

"X" = RISER WALL THICKNESS + 1/2"

① GRADE SUPPORT SLAB AND RECESS TO BE LEVEL, TO ENSURE THAT MANHOLE/INLET RISER IS PLUMB AND VERTICAL.

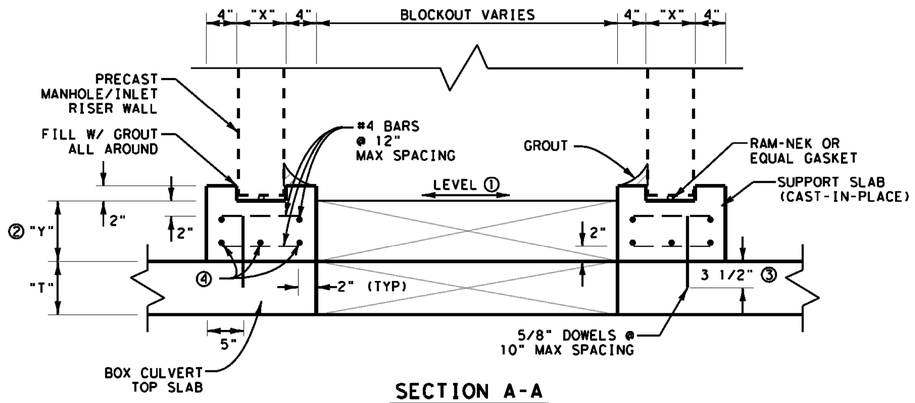
② FOR "S" </= 8', "Y" = 8" MIN
FOR 8' < "S" </= 10', "Y" = 10" MIN
FOR "S" > 10', "Y" = 12" MIN

③ FOR "T" LESS THAN 6", REDUCE TO 3".

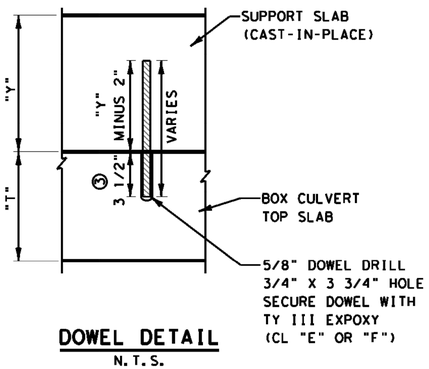
④ 3 - #7 BARS @ EQUAL SPACING.

GENERAL NOTES

1. SUPPORT SLAB TO BE CAST-IN-PLACE.
2. USE CLASS "C" CONCRETE FOR ALL SUPPORT SLABS.
3. USE GRADE 60 STEEL FOR ALL REINFORCING.
4. SEE CULVERT AND DRAINAGE LAYOUTS FOR LOCATION, TYPE, SIZE AND ORIENTAION OF INLET AND MANHOLE STRUCTURES.
5. CUT OR FORM BLOCKOUT IN TOP SLAB OF BOX CULVERT AS DIRECTED. CUT REINFORCING STEEL FLUSH WITH WALLS OF BLOCKOUT AND GROUT SMOOTH.
6. ADJUST LENGTHS OF REINFORCING BARS AS DIRECTED, TO ACCOMMODATE CULVERT SKEW.
7. SEE CULVERT STANDARDS FOR DIMENSIONS OF BOX CULVERTS.
8. MANHOLE AND INLET CONNECTIONS TO BOX CULVERTS WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE SUBSIDIARY TO ITEM 462 AND ITEM 465.



SECTION A-A
N.T.S.



DOWEL DETAIL
N.T.S.

PRECAST MANHOLE & INLET RISER CONNECTION

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SHEET 1 OF 5 SHEETS

Texas Department of Transportation

Fort Worth District Standard

MANHOLE/INLET CONNECTION TO BOX CULVERT MI-CBC (FTW)

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DATE	REVISIONS	6		
05/2019		STATE	STATE DIST.NO.	COUNTY
		TEXAS	FTW	
		CONT.	SECT.	JOB / HIGHWAY NO.

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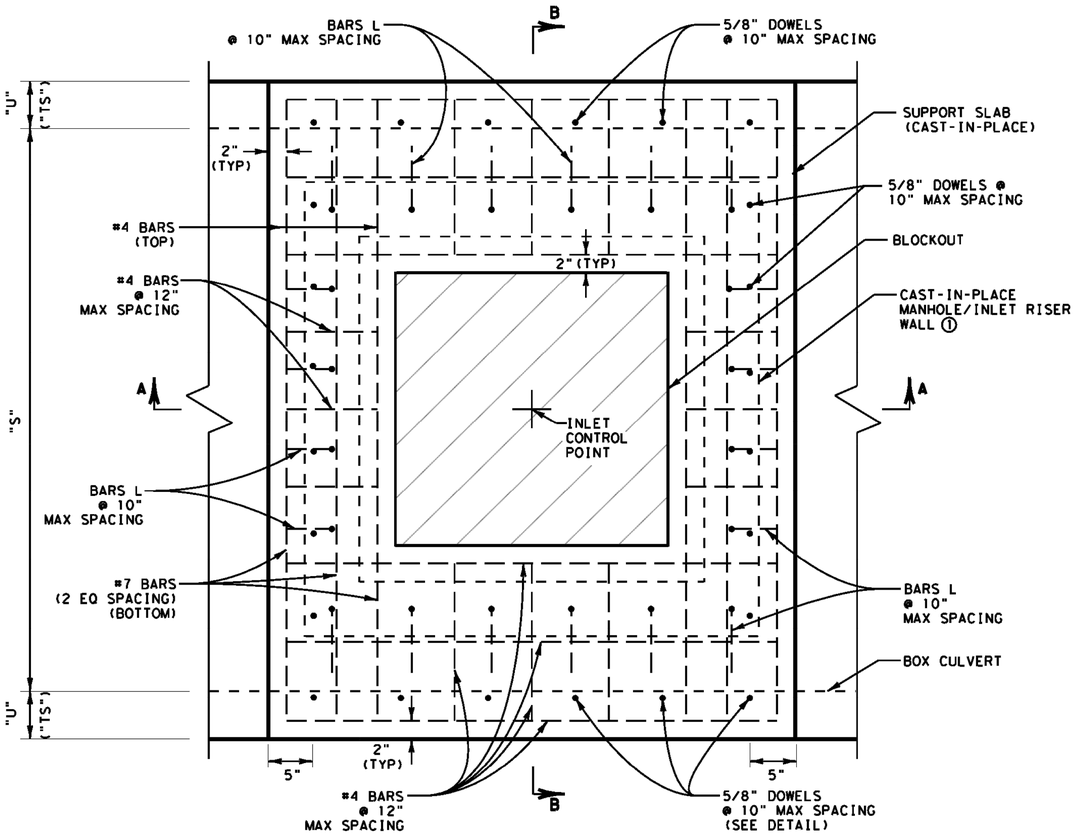
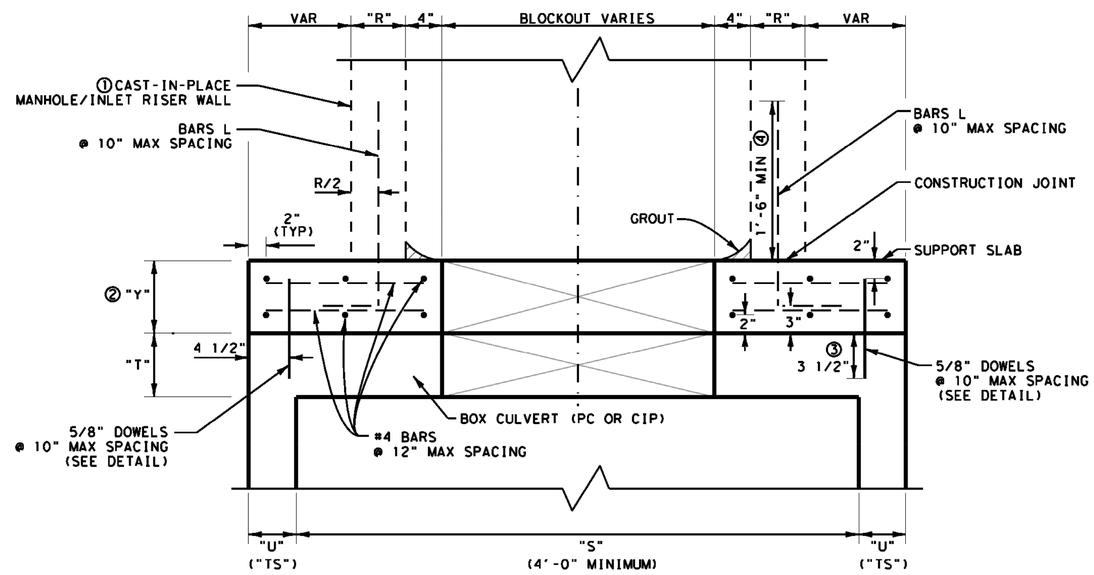


PLAN VIEW
N.T.S.



SECTION B-B
N.T.S.

NOTE:

"R" = RISER WALL THICKNESS

"S" REFERS TO BOX CULVERT SPAN (4' MINIMUM)

"T" REFERS TO BOX CULVERT TOP SLAB THICKNESS

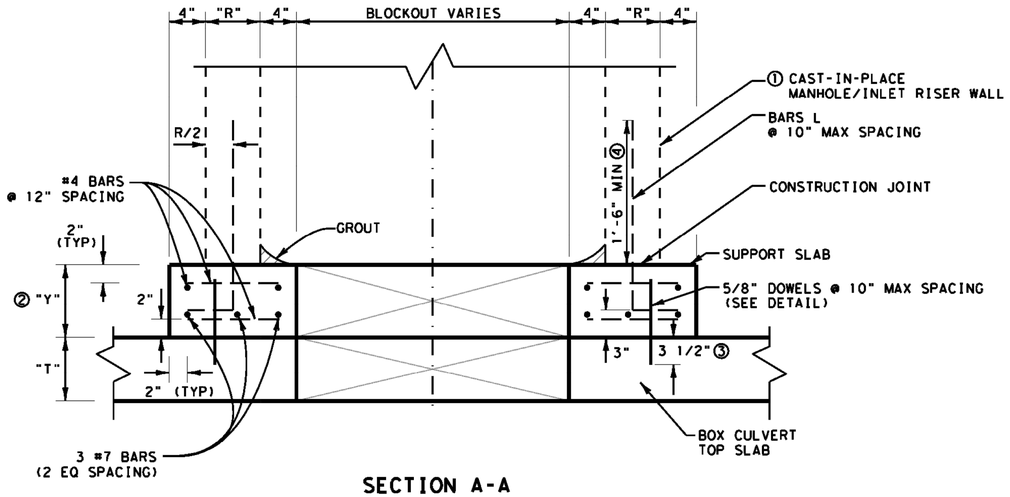
"U" AND "TS" REFERS TO BOX CULVERT WALL THICKNESS

① RISER WALL TO BE PLUMB AND VERTICAL.

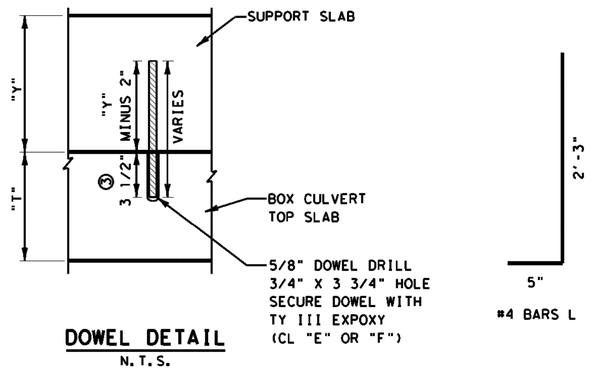
FOR "S" </= 8', "Y" = 8" MIN
② FOR 8' < "S" </= 10', "Y" = 10" MIN
FOR "S" > 10', "Y" = 12" MIN

③ FOR "T" LESS THAN 6", REDUCE TO 3".

④ FOR STRUCTURE HEIGHT LESS THAN 1'-6", ADJUST AS DIRECTED.



SECTION A-A
N.T.S.



DOWEL DETAIL
N.T.S.

GENERAL NOTES

1. SUPPORT SLAB TO BE CAST-IN-PLACE.
2. USE CLASS "C" CONCRETE FOR ALL SUPPORT SLABS.
3. USE GRADE 60 STEEL FOR ALL REINFORCING.
4. SEE CULVERT AND DRAINAGE LAYOUTS FOR LOCATION, TYPE, SIZE AND ORIENTAION OF INLET AND MANHOLE STRUCTURES.
5. CUT OR FORM BLOCKOUT IN TOP SLAB OF BOX CULVERT AS DIRECTED. CUT REINFORCING STEEL FLUSH WITH WALLS OF BLOCKOUT AND GROUT SMOOTH.
6. ADJUST LENGTHS OF REINFORCING BARS AS DIRECTED, TO ACCOMMODATE CULVERT SKEW.
7. SEE CULVERT STANDARDS FOR DIMENSIONS OF BOX CULVERTS.
8. MANHOLE AND INLET CONNECTIONS TO BOX CULVERTS WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE SUBSIDIARY TO ITEM 462 AND ITEM 465.

CAST-IN-PLACE MANHOLE/INLET RISER CONNECTION

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Fort Worth District Standard

MANHOLE/INLET CONNECTION TO BOX CULVERT
MI-CBC (FTW)

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05/2019		STATE	STATE DIST.NO.	COUNTY
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		CONT.	SECT.	JOB / HIGHWAY NO.

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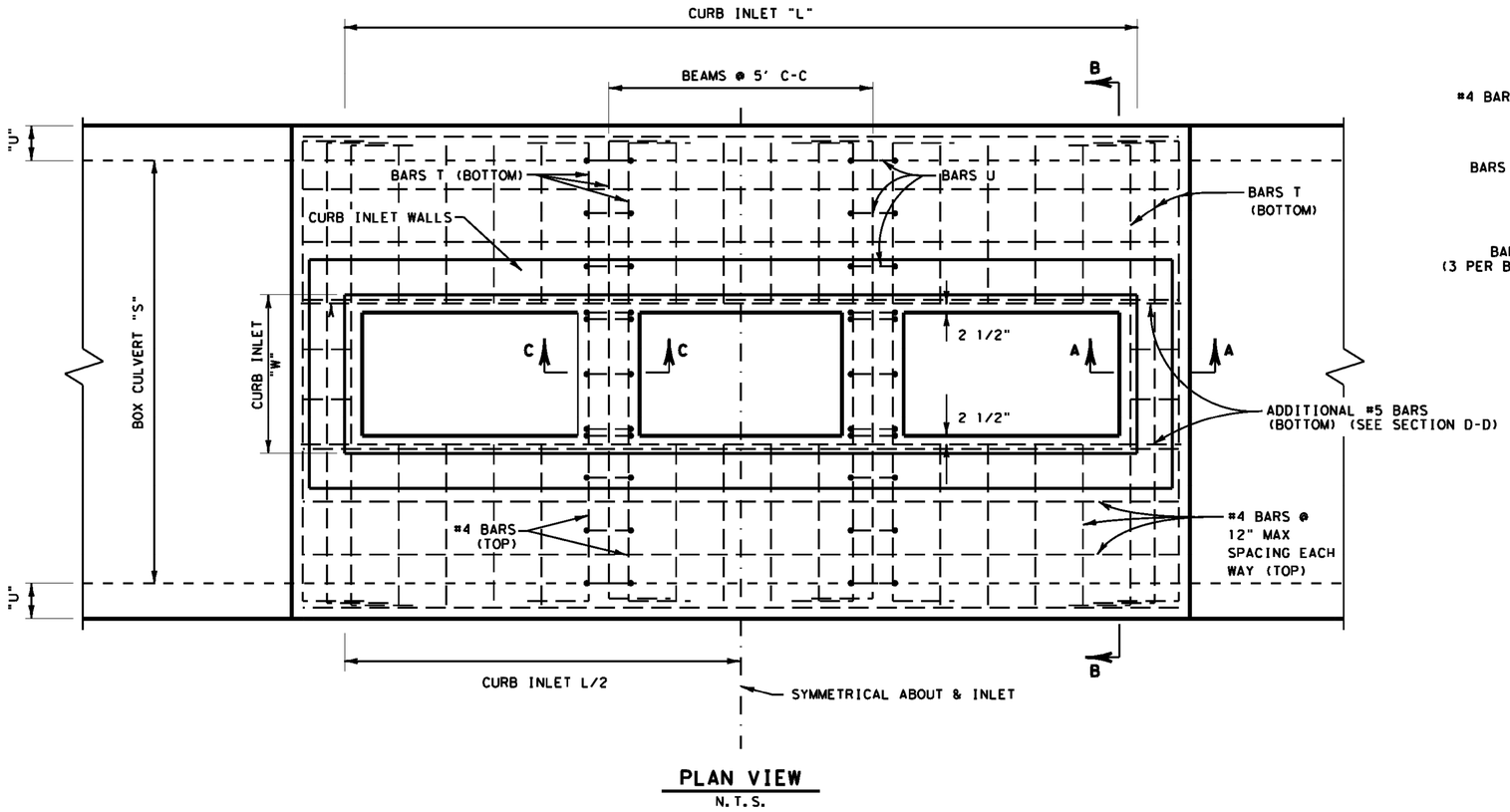
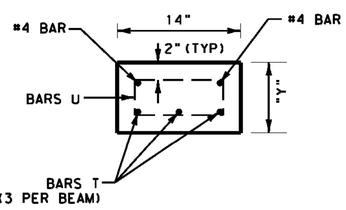
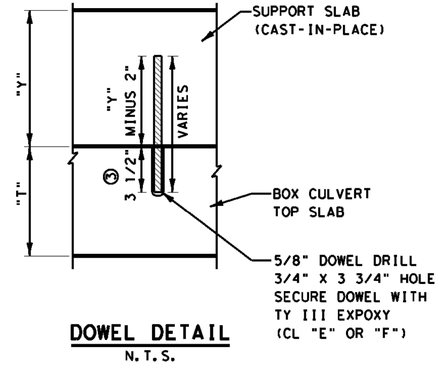


PLAN VIEW
N.T.S.



SECTION C-C
N.T.S.



DOWEL DETAIL
N.T.S.

NOTE:

"R" REFERS TO INLET WALL THICKNESS

"S" REFERS TO BOX CULVERT SPAN (4' MINIMUM)

"T" REFERS TO BOX CULVERT TOP SLAB THICKNESS

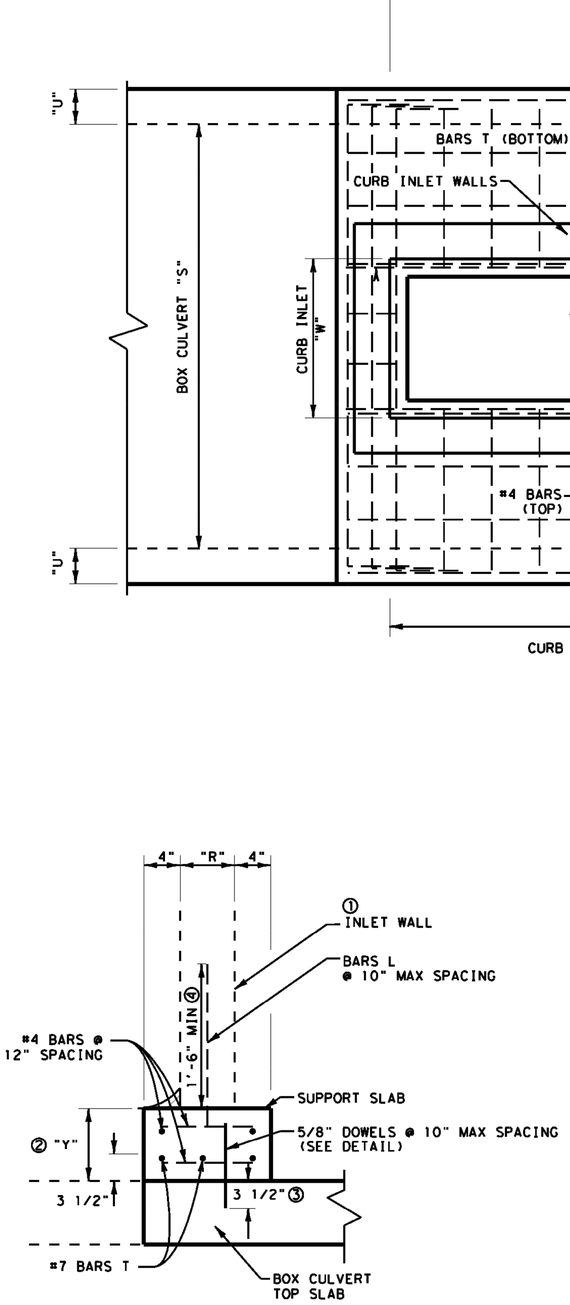
"U" AND "TS" REFER TO BOX CULVERT WALL THICKNESS

① GRADE SUPPORT SLAB AND RECESS TO BE LEVEL, TO ENSURE THAT INLET WALL IS PLUMB AND VERTICAL.

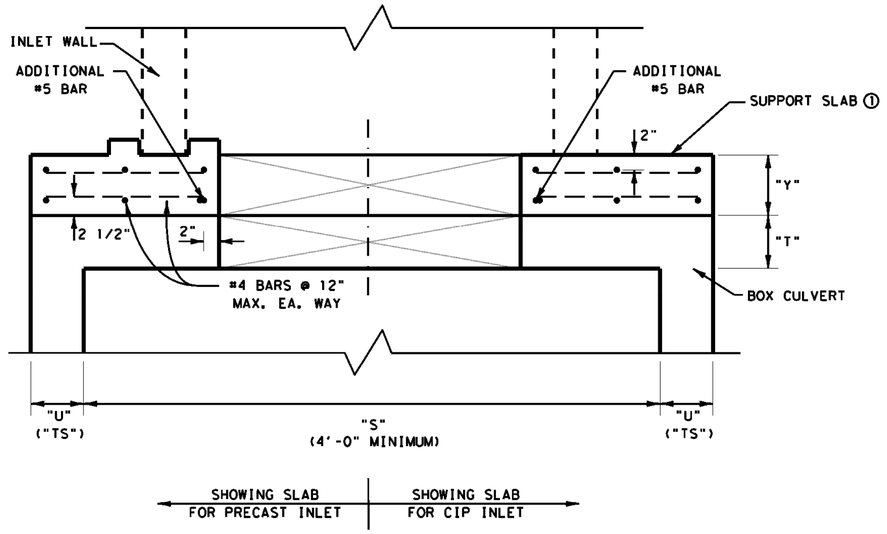
② FOR "S" </= 8', "Y" = 8" MIN
FOR 8' < "S" < 10', "Y" = 10" MIN
FOR "S" > 10', "Y" = 12" MIN

③ FOR "T" LESS THAN 6", REDUCE TO 3".

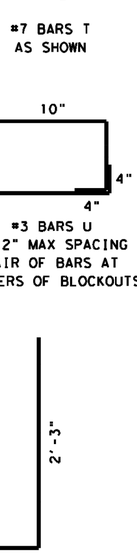
④ BARS P LENGTH = PIPE O.D. +9"; PLACE AS SHOWN.



SECTION A-A
N.T.S.
(SHOWING C.I.P. CONNECTION)
(SEE SHEET 1 OF 4 FOR PRECAST CONNECTION)



SECTION B-B
N.T.S.
(SEE SHEETS 1 & 2 FOR ADDITIONAL INFORMATION
RELATED TO PRECAST OR CAST-IN-PLACE CONNECTIONS)



GENERAL NOTES

1. SUPPORT SLAB TO BE CAST-IN-PLACE.
2. USE CLASS "C" CONCRETE FOR ALL SUPPORT SLABS.
3. USE GRADE 60 STEEL FOR ALL REINFORCING.
4. SEE CULVERT AND DRAINAGE LAYOUTS FOR LOCATION, TYPE, SIZE AND ORIENTAION OF INLET AND MANHOLE STRUCTURES.
5. CUT OR FORM BLOCKOUT IN TOP SLAB OF BOX CULVERT AS DIRECTED. CUT REINFORCING STEEL FLUSH WITH WALLS OF BLOCKOUT AND GROUT SMOOTH.
6. ADJUST LENGTHS OF REINFORCING BARS AS DIRECTED, TO ACCOMMODATE CULVERT SKEW.
7. SEE CULVERT STANDARDS FOR DIMENSIONS OF BOX CULVERTS.
8. MANHOLE AND INLET CONNECTIONS TO BOX CULVERTS WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE SUBSIDIARY TO ITEM 462 AND ITEM 465.
9. USE BASE STRUCTURE AND RISER WITH BOX CULVERTS WHERE SPAN IS LESS THAN 4'.

Texas Department of Transportation | Fort Worth District Standard

MANHOLE/INLET CONNECTION TO BOX CULVERT
MI-CBC (FTW)

ORIGINAL DRAWING: 05/2019	micbc-ftw.dgn	FED.RD. DIV.NO.	PROJECT NO.	SHEET NO.
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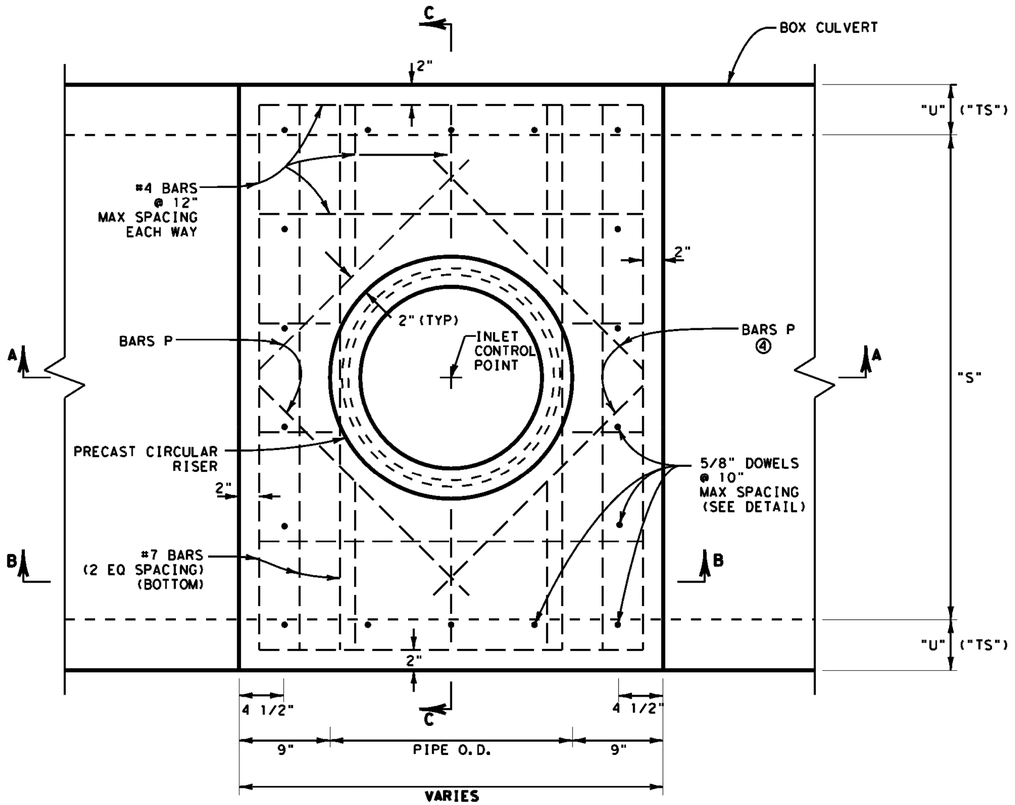
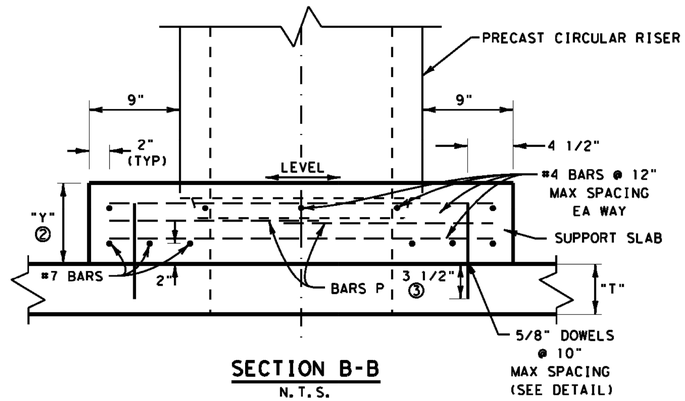
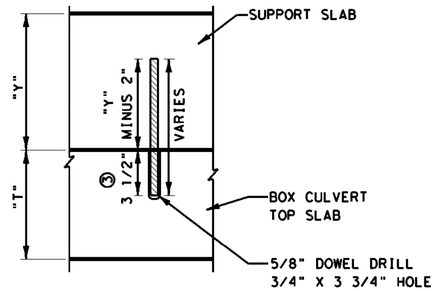


PLAN VIEW
N.T.S.



SECTION B-B
N.T.S.



DOWEL DETAIL
N.T.S.

NOTE:

"S" REFERS TO BOX CULVERT SPAN (4' MINIMUM)

"T" REFERS TO BOX CULVERT TOP SLAB THICKNESS

"U" AND "TS" REFERS TO BOX CULVERT WALL THICKNESS

① GRADE SUPPORT SLAB AND RECESS TO BE LEVEL, TO ENSURE THAT PRECAST RISER IS PLUMB AND VERTICAL.

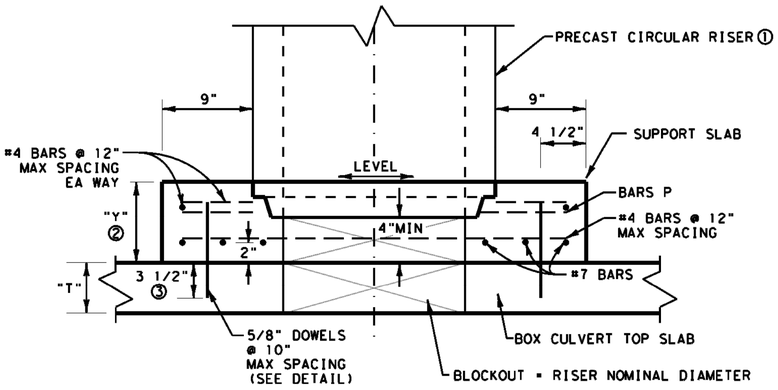
② FOR "S" </= 8', "Y" = 8" MIN
FOR 8' < "S" </= 10', "Y" = 10" MIN
FOR "S" > 10', "Y" = 12" MIN

③ FOR "T" LESS THAN 6", REDUCE TO 3".

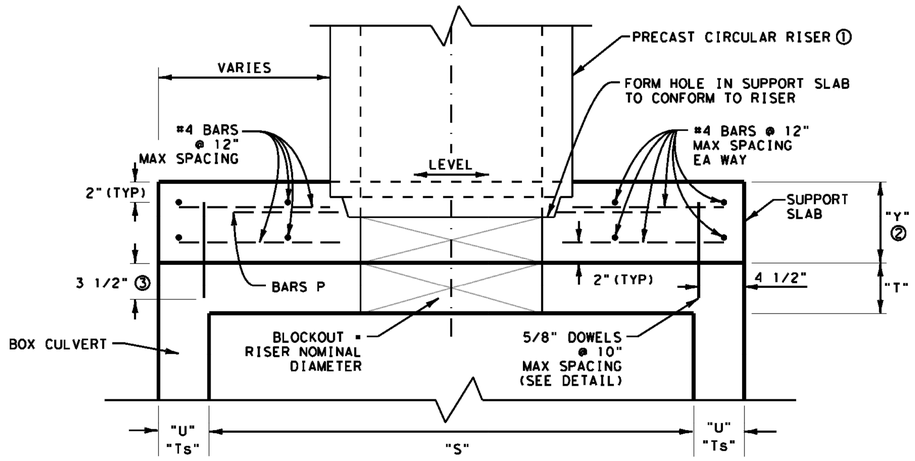
④ BARS P LENGTH = PIPE O.D. +9"
PLACE AS SHOWN.

GENERAL NOTES

1. SUPPORT SLAB TO BE CAST-IN-PLACE.
2. USE CLASS "C" CONCRETE FOR ALL SUPPORT SLABS.
3. USE GRADE 60 STEEL FOR ALL REINFORCING.
4. FOR PIPE RISER NOT CENTERED ON BOX CULVERT, ADJUST LENGTHS OF BARS P ON SHORT SIDE AS DIRECTED, TO PROVIDE MINIMUM 2" CLEAR COVER.
5. CUT OR FORM BLOCKOUT IN TOP SLAB OF BOX CULVERT AS DIRECTED. CUT REINFORCING STEEL FLUSH WITH WALLS OF BLOCKOUT AND GROUT SMOOTH.
6. SEE CULVERT STANDARDS FOR DIMENSIONS OF BOX CULVERT.
7. RISER CONNECTIONS TO BOX CULVERTS WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE SUBSIDIARY TO ITEM 462 AND ITEM 465.



SECTION A-A
N.T.S.



SECTION C-C
N.T.S.

PRECAST CIRCULAR RISER CONNECTION

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Fort Worth District Standard

MANHOLE/INLET CONNECTION TO BOX CULVERT
MI-CBC (FTW)

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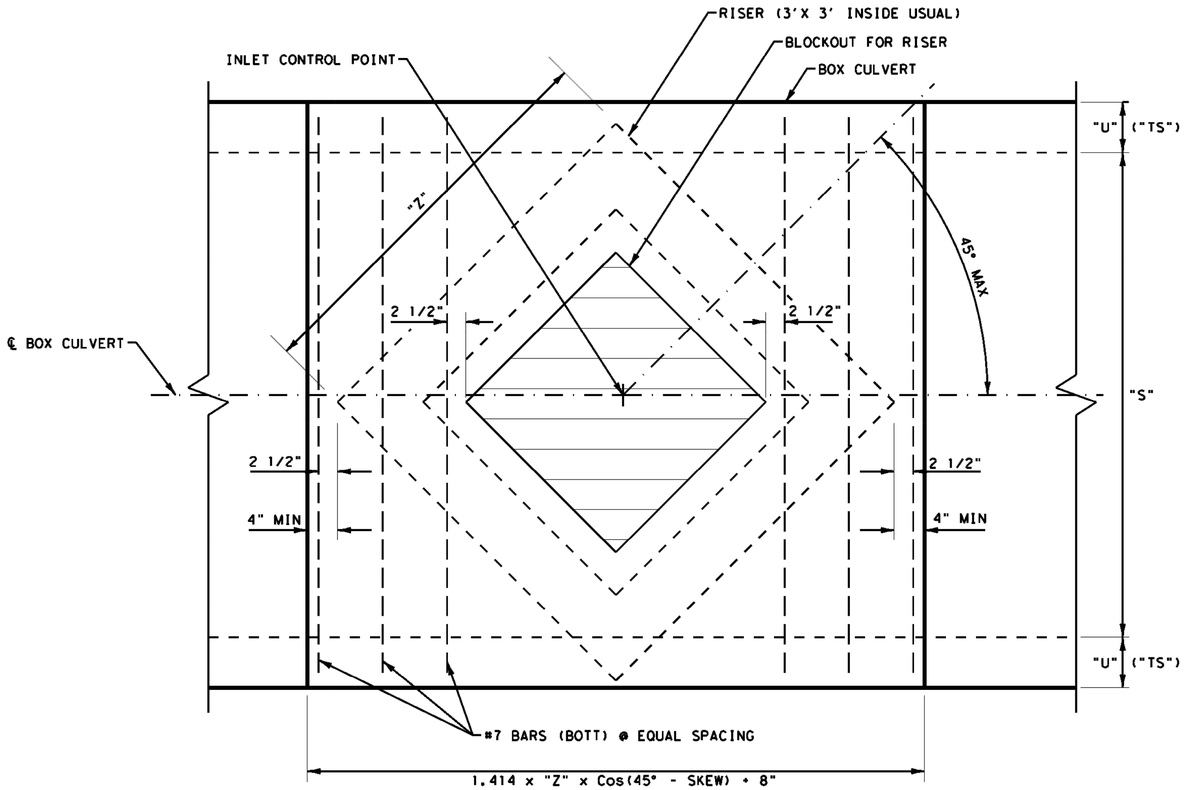

PLAN VIEW

TREATMENT FOR SKEWED RISERS

TYPICAL SUPPORT SLAB REINFORCING NOT SHOWN FOR CLARITY. PROVIDE #4 BARS AT 12" MAX SPA. IN BOTH DIRECTIONS AND DOWELS AS DETAILED ON SHEET 1 & 2.

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MANHOLE/INLET CONNECTION TO BOX CULVERT
MI-CBC (FTW)

ORIGINAL DRAWING: 05/2019	micbc-ftw.dgn	FED.RD. DIV.NO.	PROJECT NO.	SHEET NO.
DATE	REVISIONS	6		
05/2019		STATE	STATE DIST.NO.	COUNTY
		TEXAS	FTW	
		CONT.	SECT.	JOB / HIGHWAY NO.

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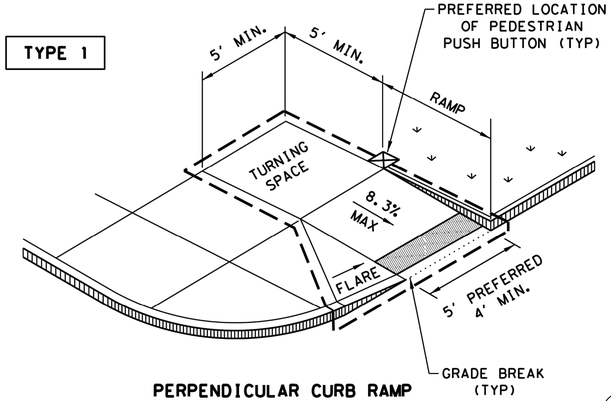
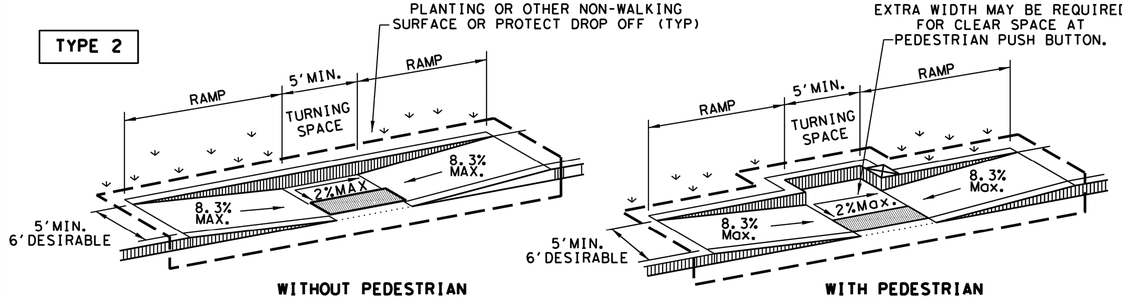
DATE:
FILE:

TYPE 1



PERPENDICULAR CURB RAMP

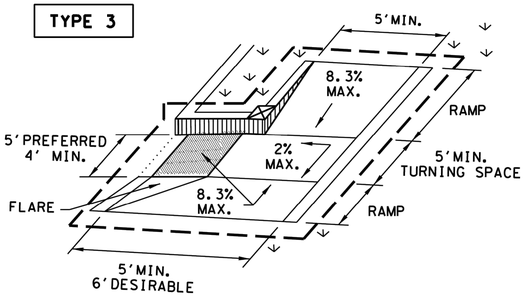
TYPE 2



WITHOUT PEDESTRIAN PUSH BUTTON

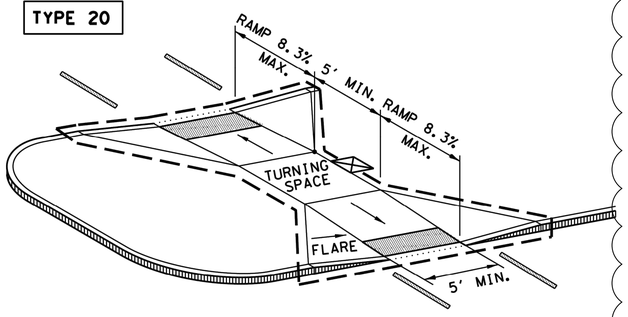
WITH PEDESTRIAN PUSH BUTTON

TYPE 3



PARALLEL CURB RAMP

TYPE 20

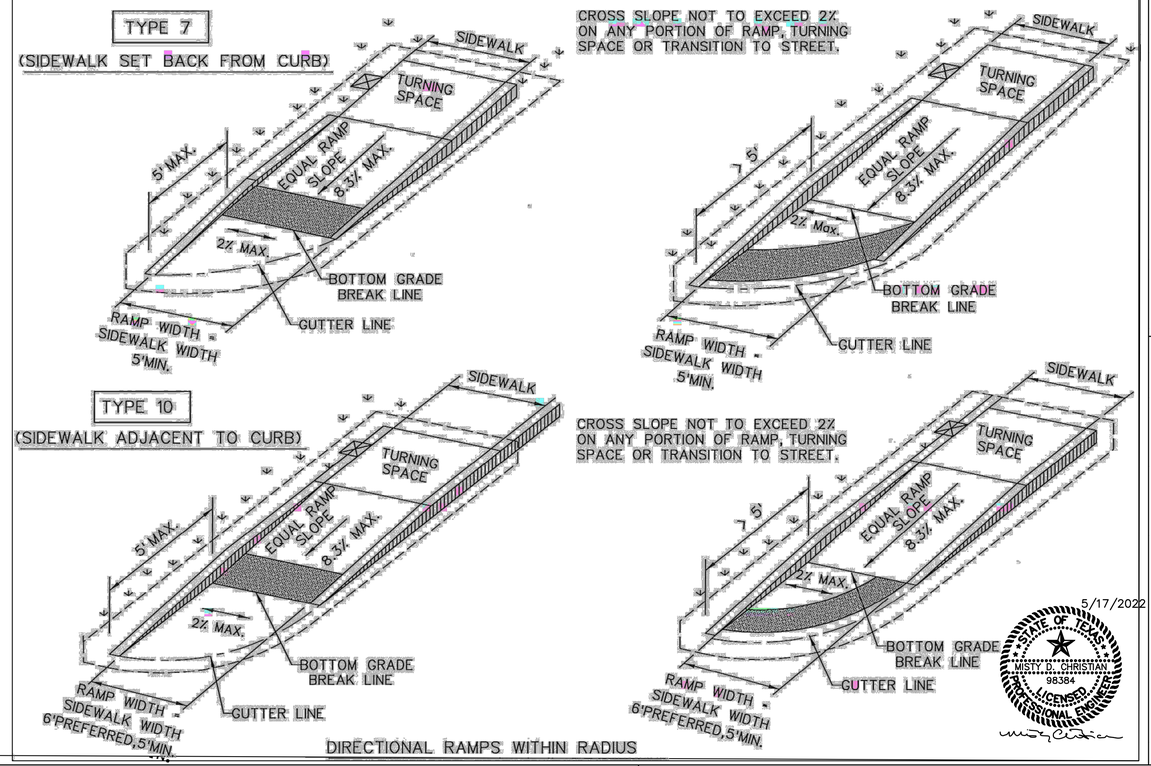


CURB RAMPS AT MEDIAN ISLANDS

TYPE 7

(SIDEWALK SET BACK FROM CURB)

CROSS SLOPE NOT TO EXCEED 2% ON ANY PORTION OF RAMP, TURNING SPACE OR TRANSITION TO STREET.



TYPE 10

(SIDEWALK ADJACENT TO CURB)

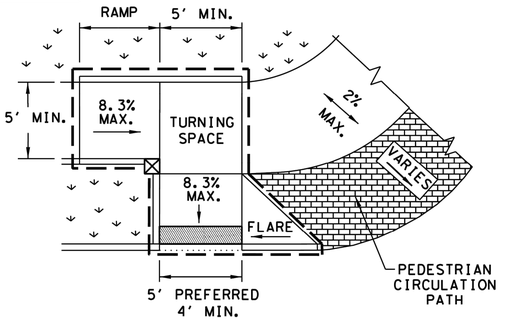
CROSS SLOPE NOT TO EXCEED 2% ON ANY PORTION OF RAMP, TURNING SPACE OR TRANSITION TO STREET.

5/17/2022

STATE OF TEXAS
MISTY D. CHRISTIAN
98384
LICENSED PROFESSIONAL ENGINEER

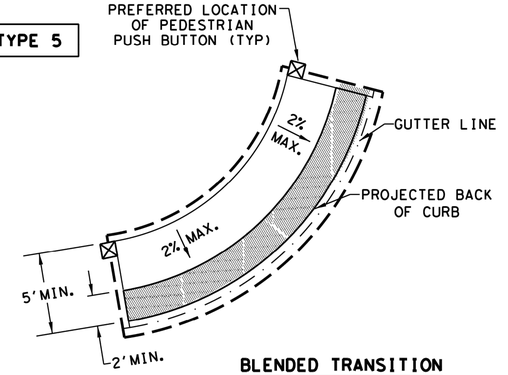
DIRECTIONAL RAMPS WITHIN RADIUS

TYPE 6



COMBINATION CURB RAMPS

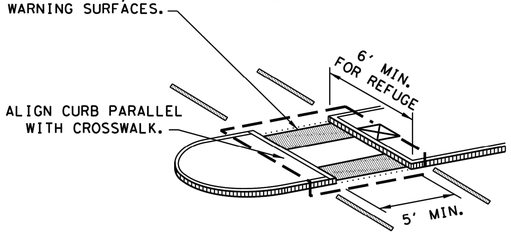
TYPE 5



BLENDED TRANSITION
(FLUSH LANDING)

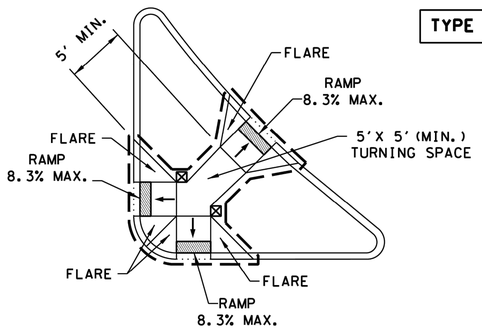
TYPE 21

INSTALL DETECTABLE WARNING SURFACE AT EACH END OF THE CUT-THROUGH RAMP WITH A MINIMUM 2' USUAL SIDEWALK SURFACE BETWEEN. IF MEDIAN IS LESS THAN 6' WIDE, ELIMINATE DETECTABLE WARNING SURFACES.

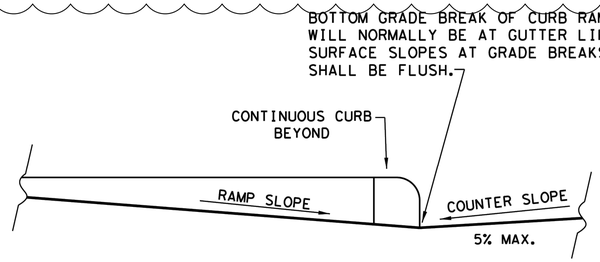


NOTE: CURB DETAILS ARE SHOWN ELSEWHERE IN THE PLANS.

TYPE 22



COMBINATION ISLAND RAMPS



TYPICAL SECTION OF PERPENDICULAR CURB RAMP AT CONNECTION TO ROADWAY

NOTES / LEGEND:

SEE GENERAL NOTES ON SHEET 2 OF 4 FOR MORE INFORMATION.

DENOTES PLANTING OR NON-WALKING SURFACE NOT PART OF PEDESTRIAN CIRCULATION PATH.

DETECTABLE WARNING SURFACE

DENOTES PREFERRED LOCATION OF PEDESTRIAN PUSH BUTTON IF APPLICABLE.

GUTTER LINE

GRADE BREAK

RAMP LIMITS OF PAYMENT

SHEET 1 OF 4

Texas Department of Transportation

Design Division Standard

PEDESTRIAN FACILITIES CURB RAMPS

PED-18

FILE: ped18	DN: TxDOT	DW: VP	CK: KM	CK: PK & JG
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REVISIONS				
REVISED 08, 2005 REVISED 06, 2012 REVISED 01, 2018	DIST	COUNTY		SHEET NO.

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GENERAL NOTES

CURB RAMPS

1. Install a curb ramp or blended transition at each pedestrian street crossing.
2. All slopes shown are maximum allowable. Cross slopes of 1.5% and lesser running should be used. Adjust curb ramp length or grade of approach sidewalks as directed.
3. Maximum allowable cross slope on sidewalk and curb ramp surfaces is 2%.
4. The minimum sidewalk width is 5'. Where the sidewalk is adjacent to the back of curb, a 6' sidewalk width is desirable. Where a 5' sidewalk cannot be provided due to site constraints, sidewalk width may be reduced to 4' for short distances. 5'x 5' passing areas at intervals not to exceed 200' are required.
5. Turning Spaces shall be 5'x 5' minimum. Cross slope shall be maximum 2%.
6. Clear space at the bottom of curb ramps shall be a minimum of 4'x 4' wholly contained within the crosswalk and wholly outside the parallel vehicular travel path.
7. Provide flared sides where the pedestrian circulation path crosses the curb ramp. Flared sides shall be sloped at 10% maximum, measured parallel to the curb. Returned curbs may be used only where pedestrians would not normally walk across the ramp, either because the adjacent surface is planted, substantially obstructed, or otherwise protected.
8. Additional information on curb ramp location, design, light reflective value and texture may be found in the latest draft of the Proposed Guidelines for Pedestrian Facilities in the Public Right of Way (PROWAG) as published by the U.S. Architectural and Transportation Barriers Compliance Board (Access Board).
9. To serve as a pedestrian refuge area, the median should be a minimum of 6' wide, measured from back of curbs. Medians should be designed to provide accessible passage over or through them.
10. Small channelization islands, which do not provide a minimum 5'x 5' landing at the top of curb ramps, shall be cut through level with the surface of the street.
11. Crosswalk dimensions, crosswalk markings and stop bar locations shall be as shown elsewhere in the plans. At intersections where crosswalk markings are not required, curb ramps shall align with theoretical crosswalks unless otherwise directed.
12. Provide curb ramps to connect the pedestrian access route at each pedestrian street crossing. Handrails are not required on curb ramps.
13. Curb ramps and landings shall be constructed and paid for in accordance with Item 531 "Sidewalks".
14. Place concrete at a minimum depth of 5" for ramps, flares and landings, unless otherwise directed.
15. Furnish and install No. 3 reinforcing steel bars at 18" o.c. both ways, unless otherwise directed.
16. Provide a smooth transition where the curb ramps connect to the street.
17. Curbs shown on sheet 1 within the limits of payment are considered part of the curb ramp for payment, whether it is concrete curb, gutter, or combined curb and gutter.
18. Existing features that comply with applicalble standards may remain in place unless otherwise shown on the plans.

DETECTABLE WARNING MATERIAL

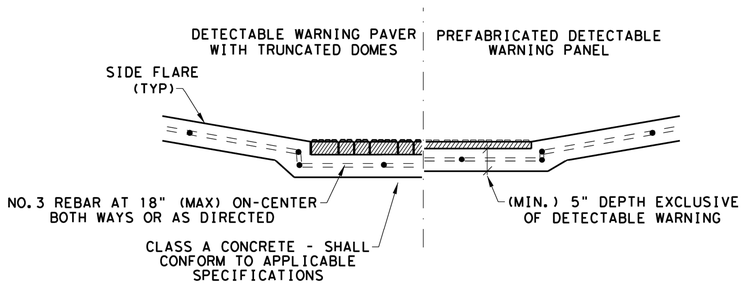
19. Curb ramps must contain a detectable warning surface that consists of raised truncated domes complying with PROWAG. The surface must contrast visually with adjoining surfaces, including side flares. Furnish and install an approved cast-in-place dark brown or dark red detectable warning surface material adjacent to uncolored concrete, unless specified elsewhere in the plans.
20. Detectable Warning Materials must meet TxDOT Departmental Materials Specification DMS 4350 and be listed on the Material Producer List. Install products in accordance with manufacturer's specifications.
21. Detectable warning surfaces must be firm, stable and slip resistant.
22. Detectable warning surfaces shall be a minimum of 24 inches in depth in the direction of pedestrian travel, and extend the full width of the curb ramp or landing where the pedestrian access route enters the street.
23. Detectable warning surfaces shall be located so that the edge nearest the curb line is at the back of curb and neither end of that edge is greater than 5 feet from the back of curb. Detectable warning surfaces may be curved along the corner radius.
24. Shaded areas on Sheet 1 of 4 indicate the approximate location for the detectable warning surface for each curb ramp type.

DETECTABLE WARNING PAVERS (IF USED)

25. Furnish detectable warning paver units meeting all requirements of ASTM C-936, C-33. Lay in a two by two unit basket weave pattern or as directed.
26. Lay full-size units first followed by closure units consisting of at least 25 percent (25%) of a full unit. Cut detectable warning paver units using a power saw.

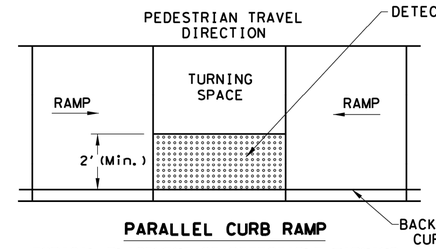
SIDEWALKS

27. Provide clear ground space at operable parts, including pedestrian push buttons. Operable parts shall be placed within unobstructed reach range specified in PROWAG section R406.
28. Place traffic signal or illumination poles, ground boxes, controller boxes, signs, drainage facilities and other items so as not to obstruct the pedestrian access route or clear ground space.
29. Street grades and cross slopes shall be as shown elsewhere in the plans.
30. Changes in level greater than 1/4 inch are not permitted.
31. The least possible grade should be used to maximize accessibility. The running slope of sidewalks and crosswalks within the public right of way may follow the grade of the parallel roadway. Where a continuous grade greater than five percent (5%) must be provided, handrails may be desirable to improve accessibility. Handrails may also be needed to protect pedestrians from potentially hazardous conditions. If provided, handrails shall comply with PROWAG R409.
32. Handrail extensions shall not protrude into the usable landing area or into intersecting pedestrian routes.
33. Driveways and turnouts shall be constructed and paid for in accordance with Item "Intersections, Driveways and Turnouts". Sidewalks shall be constructed and paid for in accordance with Item, "Sidewalks".
34. Sidewalk details are shown elsewhere in the plans.



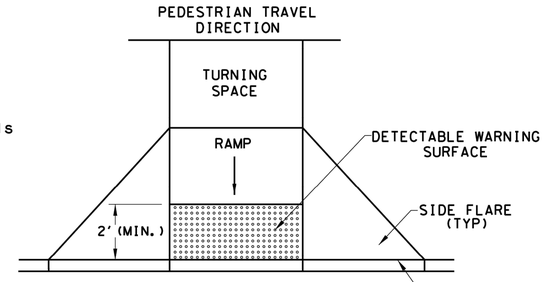
SECTION VIEW DETAIL
CURB RAMP AT DETECTIBLE WARNINGS

DETECTABLE WARNING SURFACE DETAILS



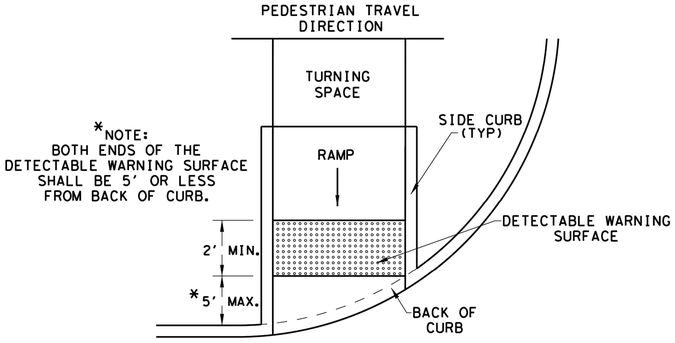
PARALLEL CURB RAMP

TYPICAL PLACEMENT OF DETECTABLE WARNING SURFACE ON LANDING AT STREET EDGE.



PERPENDICULAR CURB RAMP

TYPICAL PLACEMENT OF DETECTABLE WARNING SURFACE ON SLOPING RAMP RUN.



DIRECTIONAL CURB RAMP

TYPICAL PLACEMENT OF DETECTABLE WARNING SURFACE ON SLOPING RAMP RUN.

Texas Department of Transportation | Design Division Standard

PEDESTRIAN FACILITIES CURB RAMPS

PED-18

FILE: ped18	DN: TxDOT		DW: VP	CK: KM	CK: PK & JG
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REVISED 08,2005 REVISED 06,2012 REVISED 01,2018	DIST	COUNTY			SHEET NO.

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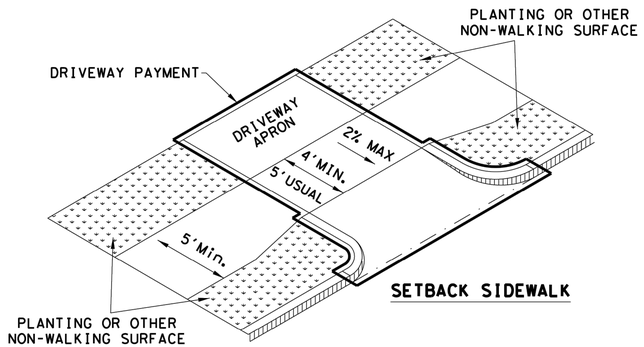
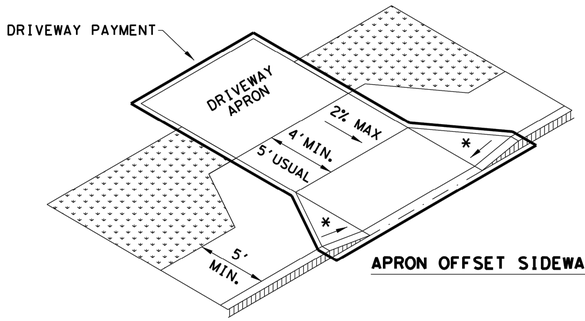
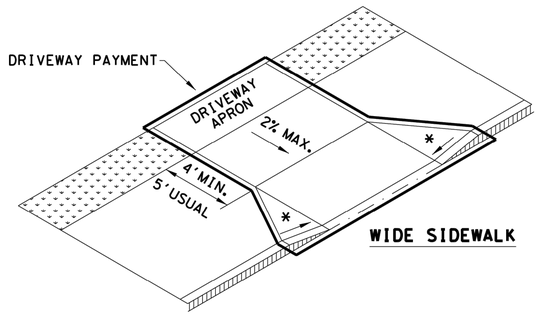
SIDEWALK TREATMENT AT DRIVEWAYS



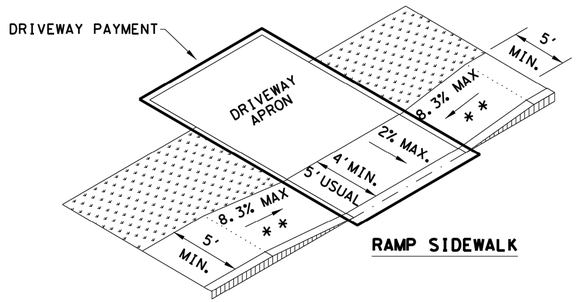
SETBACK SIDEWALK



APRON OFFSET SIDEWALK



WIDE SIDEWALK

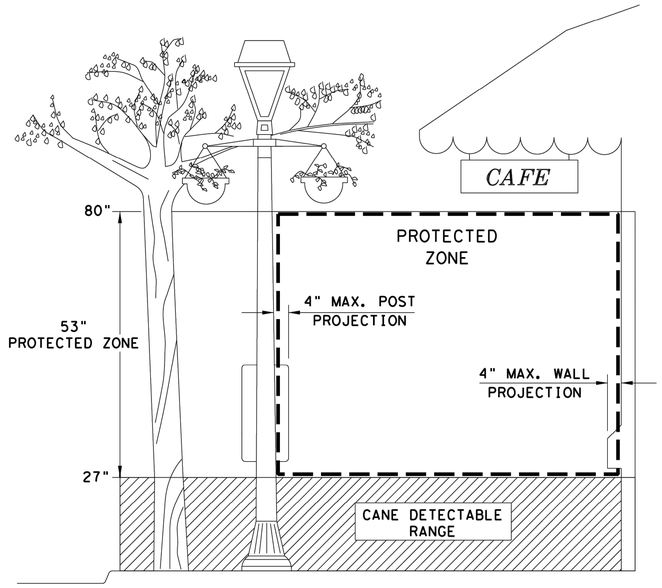


RAMP SIDEWALK

NOTES:

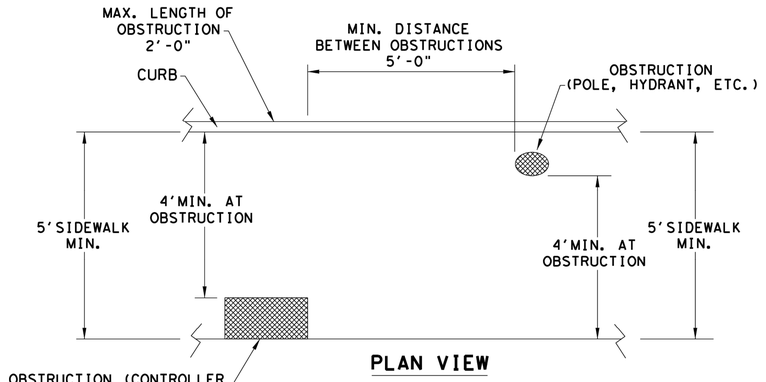
* WHERE DRIVEWAYS CROSS THE PEDESTRIAN ROUTE, SIDES SHALL BE FLARED AT 10% MAX SLOPE.

* * IF CURB HEIGHT IS GREATER THAN 6 INCHES, USE GRADE LESS THAN OR EQUAL TO 5%. HANDRAIL AND DETECTABLE WARNING ARE NOT REQUIRED.



PROTECTED ZONE

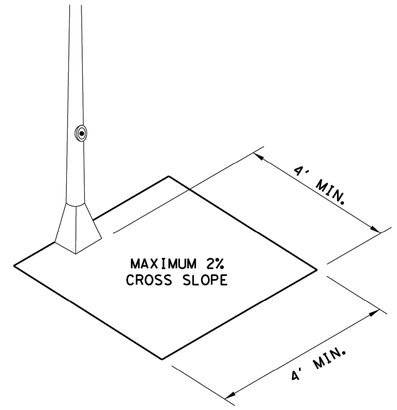
NOTE: IN PEDESTRIAN CIRCULATION AREA, MAXIMUM 4" PROJECTION FOR POST OR WALL MOUNTED OBJECTS BETWEEN 27" AND 80" ABOVE THE SURFACE.



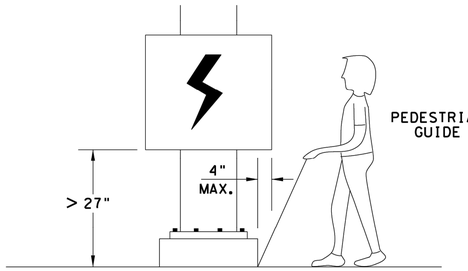
PLAN VIEW

PLACEMENT OF STREET FIXTURES

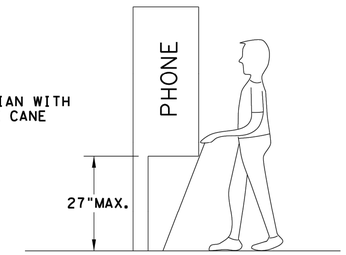
NOTE: ITEMS NOT INTENDED FOR PUBLIC USE. MINIMUM 4' X 4' CLEAR GROUND SPACE REQUIRED AT PUBLIC USE FIXTURES.



CLEAR SPACE ADJACENT TO PEDESTRIAN PUSH BUTTON



WHEN AN OBSTRUCTION OF A HEIGHT GREATER THAN 27" FROM THE SURFACE WOULD CREATE A PROTRUSION OF MORE THAN 4" INTO THE PEDESTRIAN CIRCULATION AREA, CONSTRUCT ADDITIONAL CURB OR FOUNDATION AT THE BOTTOM TO PROVIDE A MAXIMUM 4" OVERHANG.



PROTRUDING OBJECTS OF A HEIGHT ≤ 27" ARE DETECTABLE BY CANE AND DO NOT REQUIRE ADDITIONAL TREATMENT.

DETECTION BARRIER FOR VERTICAL CLEARANCE < 80"

Texas Department of Transportation

Design Division Standard

PEDESTRIAN FACILITIES CURB RAMPS

PED-18

FILE: ped18	DN: TxDOT	DW: VP	CK: KM	CK: PK & JG
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REVISIONS				
REVISED 08,2005	DIST	COUNTY		SHEET NO.
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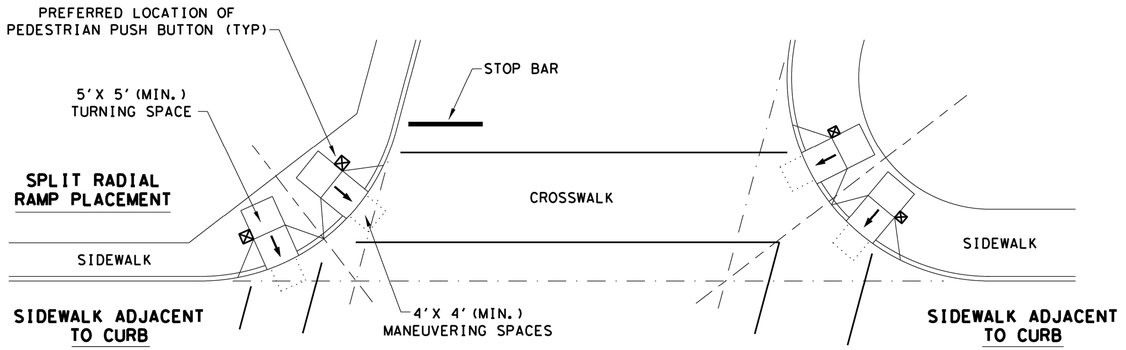
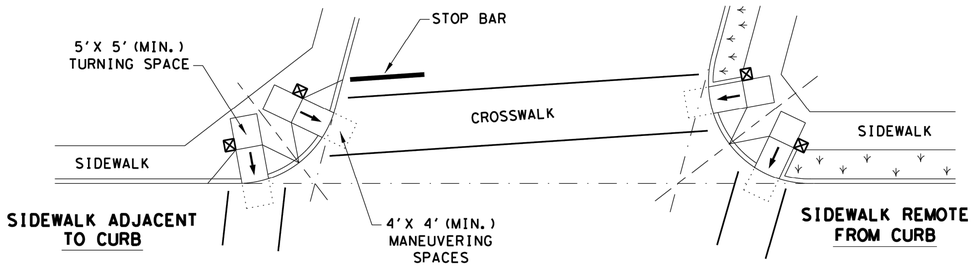
TYPICAL CROSSING LAYOUTS

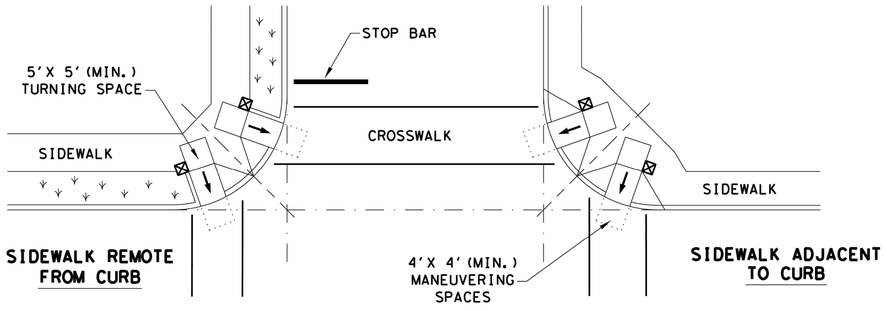
SEE SHEET 1 OF 4 FOR DETAILS AND DIMENSIONS



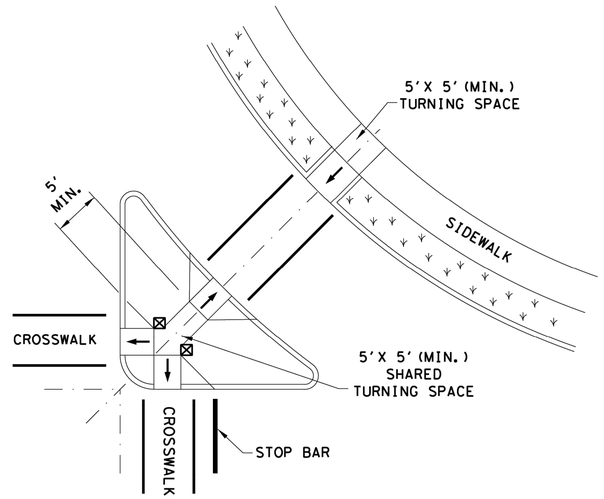
SKEWED INTERSECTION WITH "LARGE" RADIUS



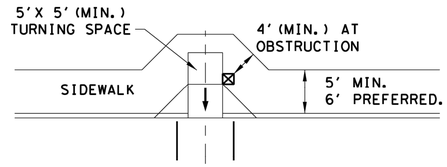
SKEWED INTERSECTION WITH "SMALL" RADIUS

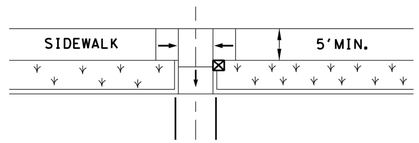


NORMAL INTERSECTION WITH "SMALL" RADIUS



AT INTERSECTION
W/FREE RIGHT TURN & ISLAND





MID-BLOCK PLACEMENT
PERPENDICULAR RAMPS

LEGEND:

SHOWS DOWNWARD SLOPE. →

DENOTES PREFERRED LOCATION OF PEDESTRIAN PUSH BUTTON (IF APPLICABLE). ☒

DENOTES PLANTING OR NON-WALKING SURFACE NOT PART OF PEDESTRIAN CIRCULATION PATH.

Texas Department of Transportation

Design Division Standard

PEDESTRIAN FACILITIES CURB RAMPS

PED-18

FILE: ped18	DN: TxDOT	DW: VP	CK: KM	CK: PK & JG	
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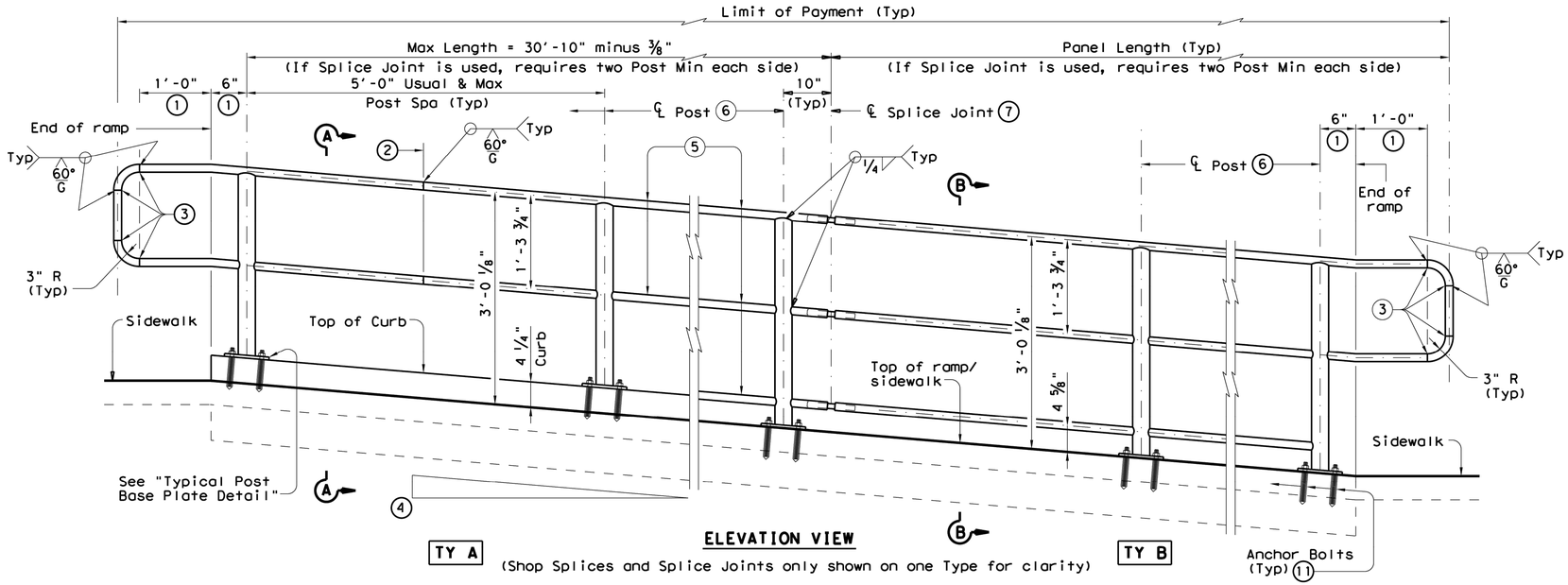
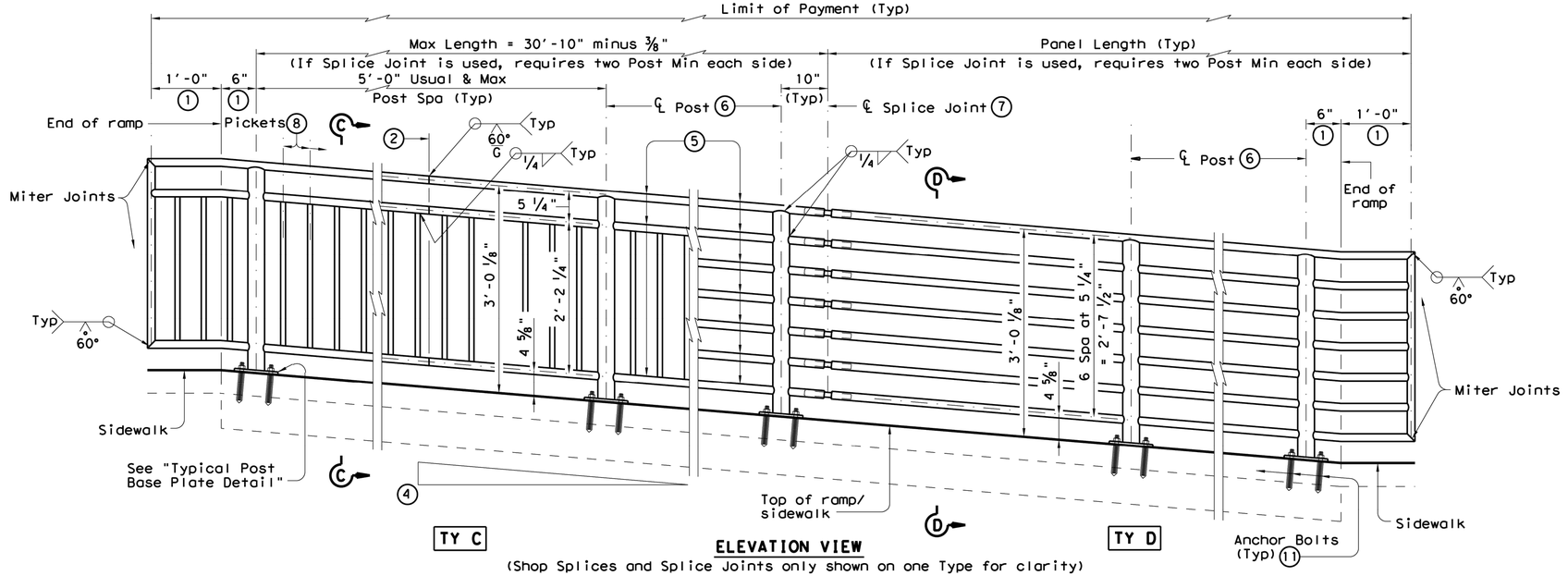


TY A

ELEVATION VIEW

(Shop Splices and Splice Joints only shown on one Type for clarity)

TY B



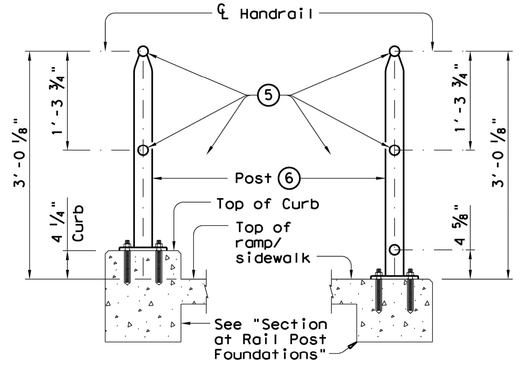
TY C

ELEVATION VIEW

(Shop Splices and Splice Joints only shown on one Type for clarity)

TY D

RECOMMENDED USAGE (9) (10)	
Dropoff Height/ Condition	Recommended Rail Options
<30" dropoff	TY A, TY B, TY C, or TY D
≥ 30" dropoff, or along Bike Path	TY E or TY F

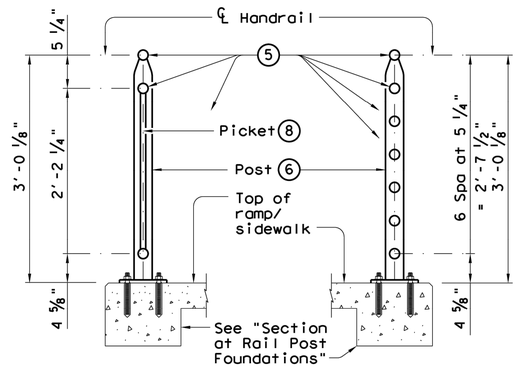


SECTION A-A

(Showing Handrail **TY A**)

SECTION B-B

(Showing Handrail **TY B**)



SECTION C-C

(Showing Handrail **TY C**)

SECTION D-D

(Showing Handrail **TY D**)

(1) Parallel to ground.

(2) One shop splice per panel is permitted with minimum 85 percent penetration. The weld may be square groove or single vee groove. Grind smooth.

(3) Shop splice is permitted with minimum 85 percent penetration. The weld may be square groove or single vee groove. Grind smooth.

(4) See Ramp Details located elsewhere in plans for ramp slope and dimensions. Maximum ramp slope will not exceed 8.3 percent. Level landing required for each 30" rise if grade exceeds 5 percent.

(5) 1 ½" Dia. Standard Pipe (1.900" O.D., 0.145" wall thickness). Parallel to ramp / sidewalk. Provide holes as needed in 1 ½" Dia. pipe for galvanizing drainage and venting.

(6) 2 ½" Dia. Standard Pipe (2.875" O.D., 0.203" wall thickness). See "Post Mount Detail" for crimping and trimming post to fit Dia. of top rail. Provide holes as needed in post for galvanizing drainage and venting. Plumb all posts.

(7) See "Handrail Fabrication Details" for Splice Joints.

(8) ℄ ⅝" Dia. Round Bar equal spacing at 4 ½" Max. Plumb all pickets.

(9) When needed for accessibility (grade > 5 percent) or as needed for pedestrian safety.

(10) Not to be used on bridges.

(11) See "General Notes" for anchor bolt information.

SHEET 1 OF 3

Texas Department of Transportation

Design Division Standard

PEDESTRIAN HANDRAIL DETAILS

PRD-13

FILE: prd13.dgn	DN: TxDOT	CK: AM	DW: JTR	CK: CGL
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REVISIONS REVISED MAY, 2013 (VP)				
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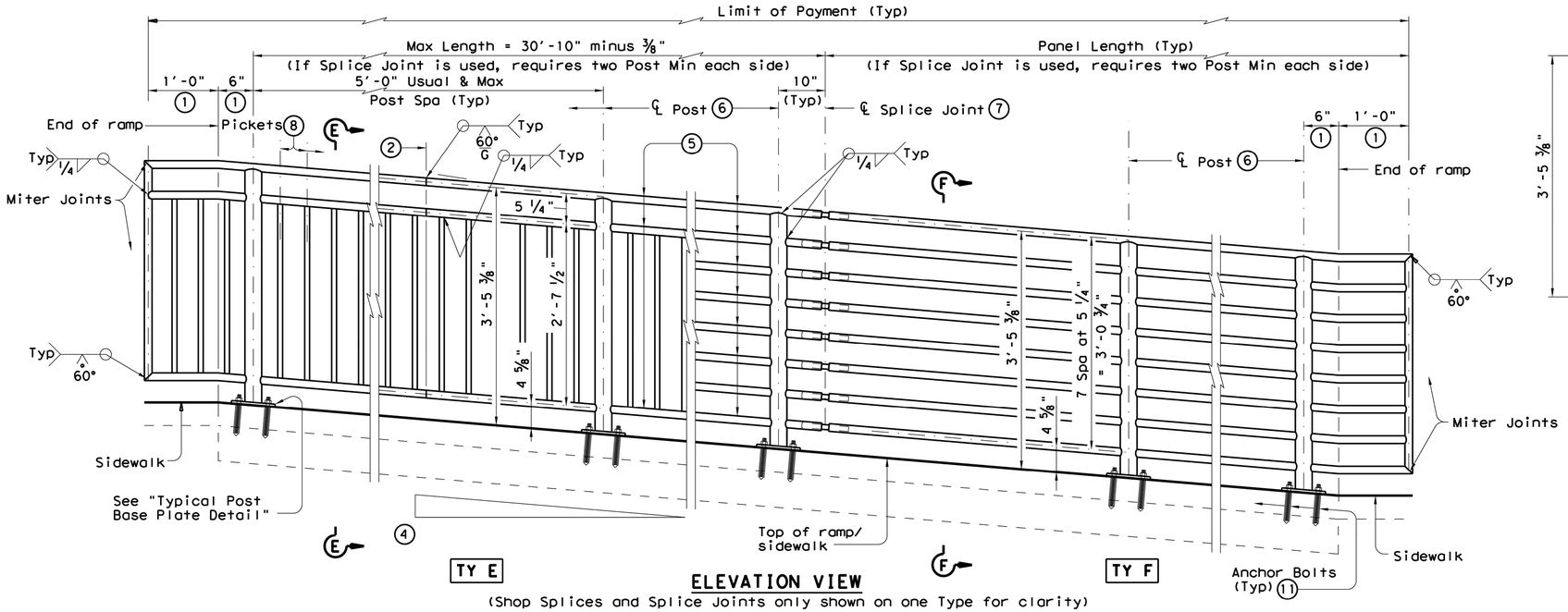
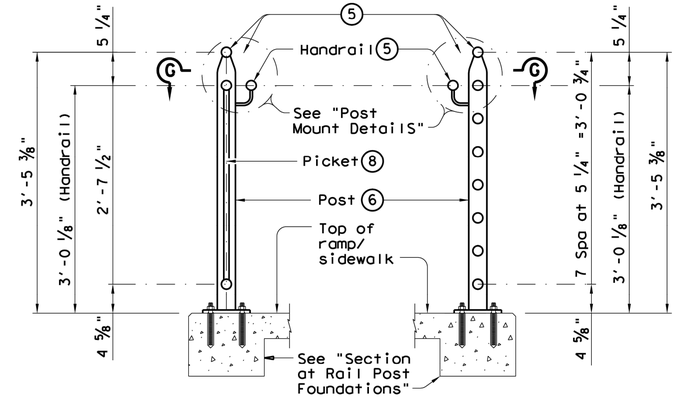
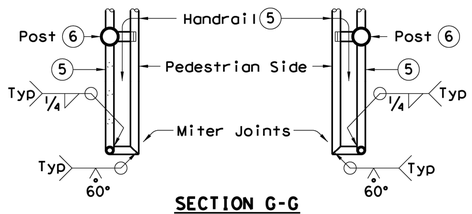


ELEVATION VIEW
(Shop Splices and Splice Joints only shown on one Type for clarity)

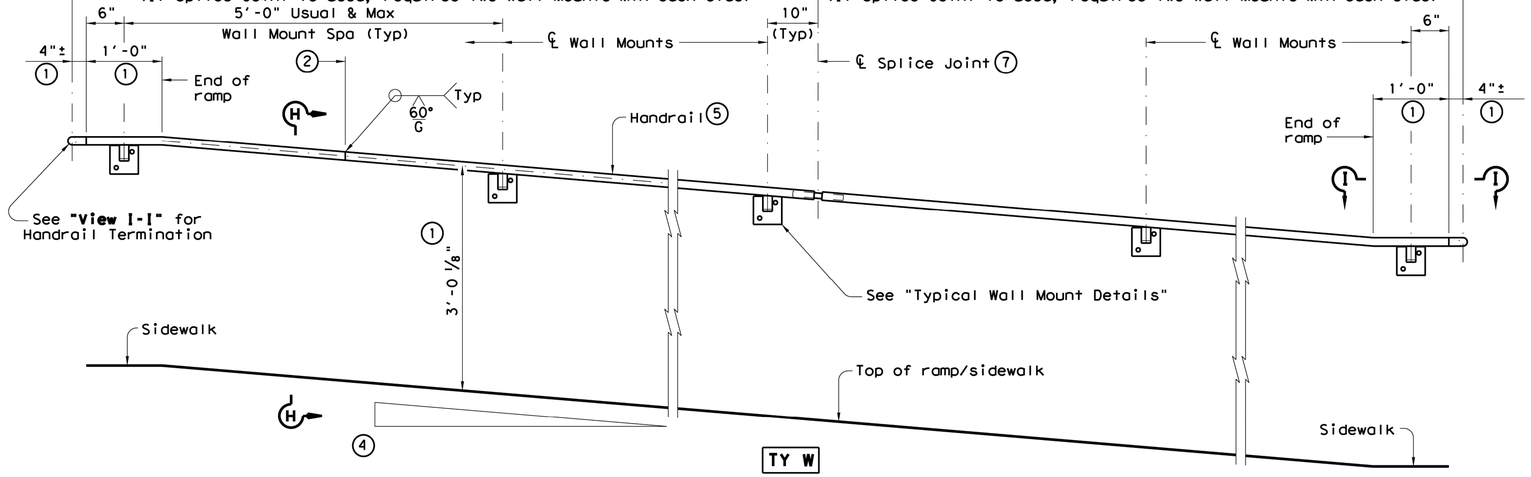


SECTION E-E
(Showing Handrail **TY E**)

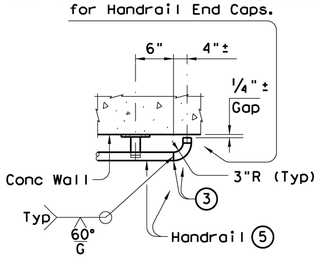
SECTION F-F
(Showing Handrail **TY F**)



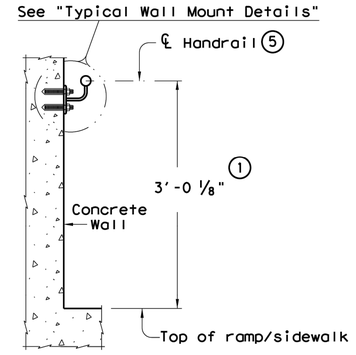
SECTION G-G
(Showing Handrail Termination)



ELEVATION VIEW



VIEW I-I
(Showing Handrail Termination)



SECTION H-H
(Showing Handrail **TY W**)

1. Parallel to ground.
2. One shop splice per panel is permitted with minimum 85 percent penetration. The weld may be square groove or single vee groove. Grind smooth.
3. Shop splice is permitted with minimum 85 percent penetration. The weld may be square groove or single vee groove. Grind smooth.
4. See Ramp Details located elsewhere in plans for ramp slope and dimensions. Maximum ramp slope will not exceed 8.3 percent. Level landing required for each 30" rise if grade exceeds 5 percent.
5. 1 ½" Dia. Standard Pipe (1.900" O.D., 0.145" wall thickness). Parallel to ramp / sidewalk. Provide holes as needed in 1 ½" Dia. pipe for galvanizing drainage and venting.
6. 2 ½" Dia. Standard Pipe (2.875" O.D., 0.203" wall thickness). See "Post Mount Detail" for crimping and trimming post to fit Dia. of top rail. Provide holes as needed in post for galvanizing drainage and venting. Plumb all posts.
7. See "Handrail Fabrication Details" for Splice Joints.
8. ℄ ⅝" Dia. Round Bar equal spacing at 4 ½" Max. Plumb all pickets.
11. See "General Notes" for anchor bolt information.

Texas Department of Transportation | Design Division Standard

PEDESTRIAN HANDRAIL DETAILS

PRD-13

FILE: prd13.dgn	DN: TxDOT	CK: AM	DW: JTR	CK: CGL
©TxDOT December 2006	CONT	SECT	JOB	HIGHWAY
REVISIONS REVISED MAY, 2013 (VP)	DIST	COUNTY		SHEET NO.

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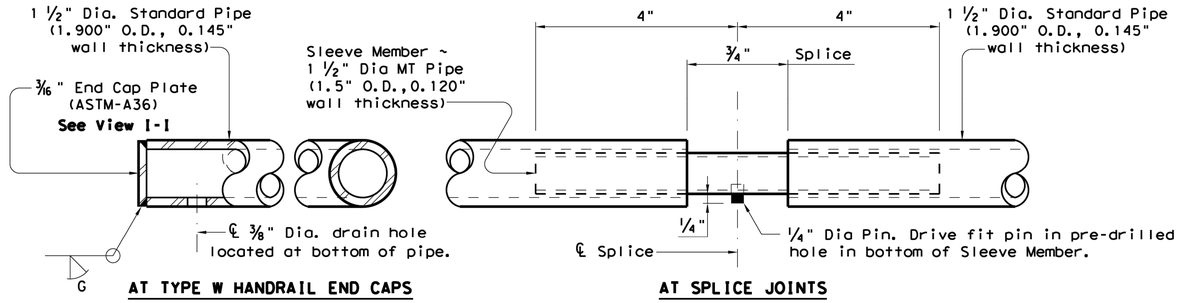
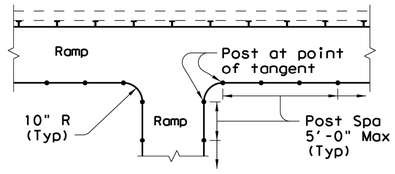


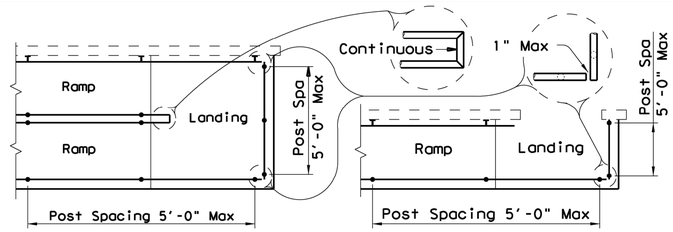
AT TYPE W HANDRAIL END CAPS

AT SPLICE JOINTS

HANDRAIL FABRICATION DETAILS



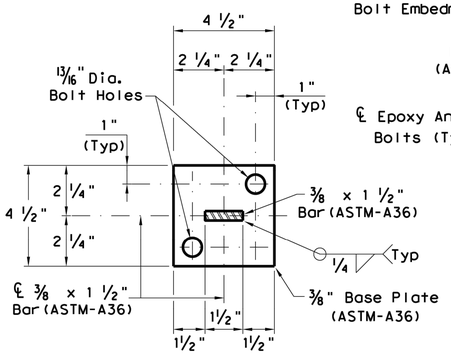
RAMP INTERSECTION



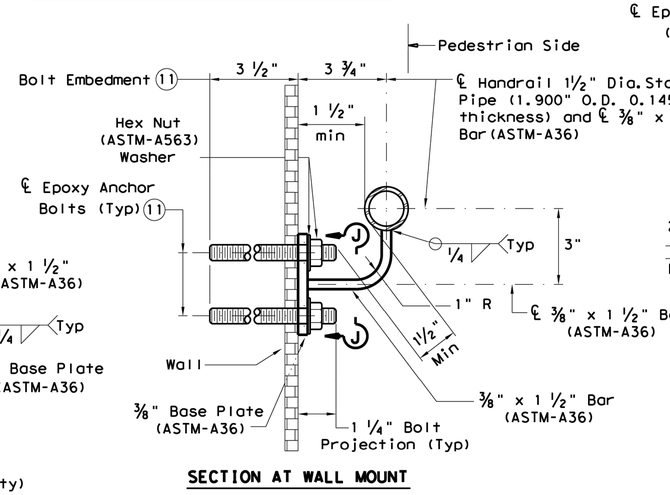
MULTI-LEVEL RAMP

SINGLE-LEVEL RAMP

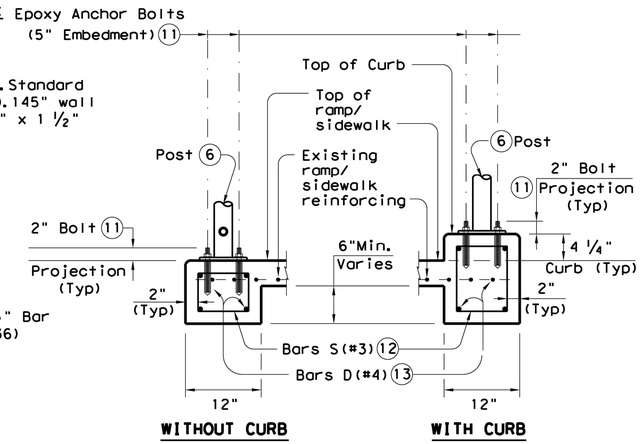
PLAN SHOWING RAIL AT RAMP CONDITIONS



SECTION J-J
(Anchor Bolts not shown for clarity)



SECTION AT WALL MOUNT



WITHOUT CURB

WITH CURB

SECTION AT RAIL POST FOUNDATIONS

TYPICAL WALL MOUNT DETAILS

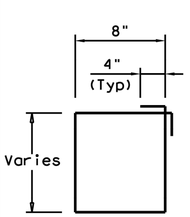
(5) 1 ½" Dia. Standard Pipe (1.900" O.D., 0.145" wall thickness). Parallel to ramp/sidewalk. Provide holes as needed in 1 ½" Dia. pipe for galvanizing drainage and venting.

(6) 2 ½" Dia. Standard Pipe (2.875" O.D., 0.203" wall thickness). Plumb all posts. See "Post Mount Detail" for crimping and trimming post to fit the diamenter of top rail. Provide holes as needed in post for galvanizing drainage and venting.

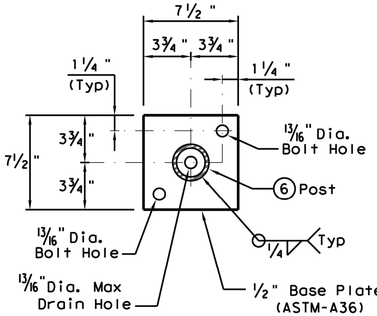
(11) See "General Notes" for anchor bolt information.

(12) Bars S(#3) spaced at 12" Max (Spaced 3" from outside edge of overall length of Ramp/Sidewalk).

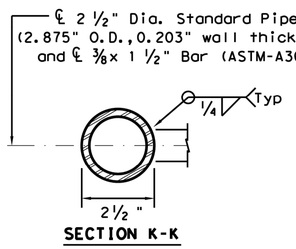
(13) Provide 1 ½" end cover to Bars D(#4) from outside edge of overall length of Ramp/Sidewalk.



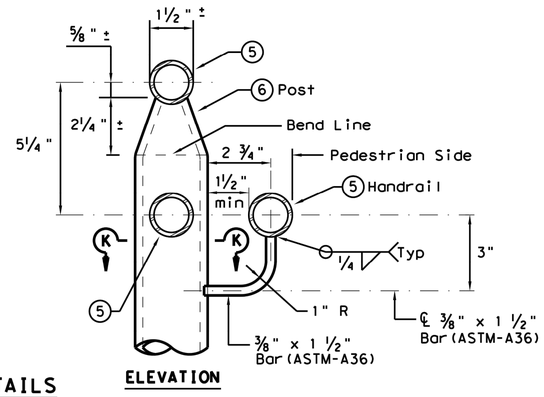
BARS S (#3)



TYPICAL POST BASE PLATE DETAIL



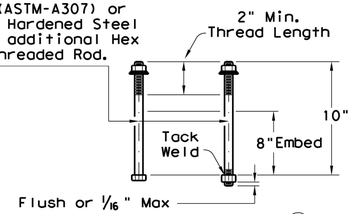
SECTION K-K



ELEVATION

POST MOUNT DETAILS

℄ ⅝" Dia. Hex Head Anchor Bolt (ASTM-A307) or Threaded Rod (ASTM-A36) with one Hardened Steel Washer placed under Hex Nut. One additional Hex Nut will be furnished for each Threaded Rod.



CAST-IN-PLACE ANCHOR BOLT OPTIONS
(Used for Post Base Plate only)

GENERAL NOTES

Designed according to ADAAG, Texas Accessibility Standards, Uniform Building Code, and AASHTO LRFD Specifications.

Handrail anchorage details shown on this standard may require modification for select structure types. See appropriate details elsewhere in plans for these modifications.

Pipe will conform to ASTM-A53 Grade B or A500 Grade B. Steel plates and steel bars will conform to ASTM-A36. Mechanical tubing (MT) will conform to ASTM A513 Grade 1015 or higher. Galvanize all steel components except reinforcing steel unless noted otherwise.

Concrete for foundations will be in accordance with Item 531 "Sidewalks". All reinforcing steel must be Grade 60. Bar laps, where required, will be as follows: Uncoated ~ #4 = 1'-5" Epoxy coated ~ #4 = 2'-1"

When the plans require painted steel, follow the requirements for painting galvanized steel in Item 446, "Cleaning and Painting Steel". Sleeve Members will receive galvanization and only get field painted after installation unless directed otherwise by Engineer.

Epoxy Anchor bolts for wall mount and post base plate will be ⅝" Dia. ASTM A36 threaded rods with one hex nut and one hardened steel washer at each bolt. ⅝" Dia. threaded rod embedment depth for wall mounts is 3 ½" and embedment depth for post base plate is 5".

Embed threaded rods into concrete with a Type III (Class C) epoxy meeting the requirements of DMS-6100, "Epoxies and Adhesives". Mix and dispense adhesive with the manufacturer's static mixing nozzle/dual cartridge system. Core drill holes (percussion drilling not permitted).

At the contractor's option the post base plate anchor bolts may be cast with the Ramp/Sidewalk (See Cast-in-Place Anchor Bolt Options).

Optional cast-in-place anchor bolts will be ⅝" Dia ASTM A307 Grade A bolts (or A36 threaded rods with one tack welded hex nut each) with one hex nut and one hardened steel washer at each bolt. Embedment depth of cast-in-place bolt will be 8" for post base plate.

Handrails and any wall or other surface adjacent to them will be free of any sharp or abrasive elements.

Submit shop drawings to the Engineer unless otherwise noted. For curved handrail applications, fabricate the handrail to the curve if radius is less than 600 ft. Shop drawings are required when rail is fabricated to the curve.

For all handrails, erection drawings will be submitted to the Engineer for approval to ensure proper installation.

Drawings will show handrail mount locations with bolts setting, spacing, ramp slope, and/or splice joint locations, and handrail lengths with identification showing where each handrail goes on the layout.

Payment for concrete sidewalks or curb ramps will be paid for in accordance with Item 531 "Sidewalks".

Payment for all items shown is to be included in unit price bid in accordance with Item 450 "Railing" of the type specified.

All exposed edges will be rounded or chamfered to approximately ⅛" by grinding.

Texas Department of Transportation

Design Division Standard

PEDESTRIAN HANDRAIL DETAILS

PRD-13

FILE: prd13.dgn	DN: TxDOT	CK: AM	DW: JTR	CK: CGL
©TxDOT December 2006	CONT	SECT	JOB	HIGHWAY
REVISIONS REVISED MAY, 2013 (VP)				
	DIST	COUNTY		SHEET NO.

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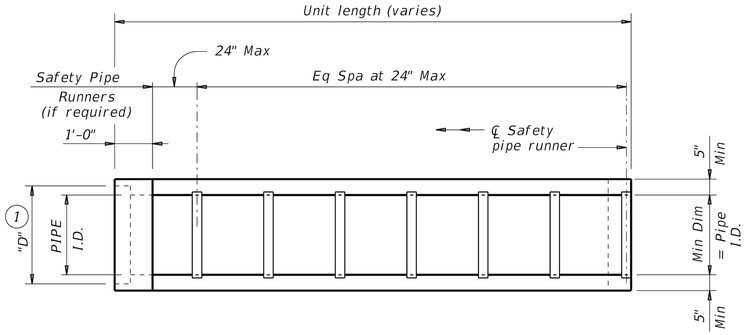
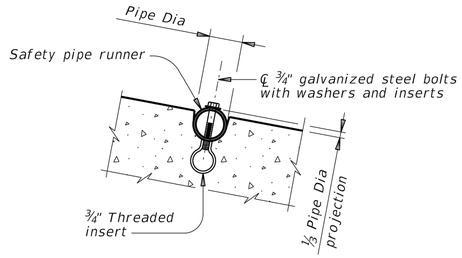


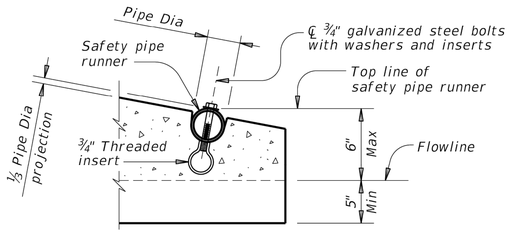
PLAN

(Showing bell end connection.)

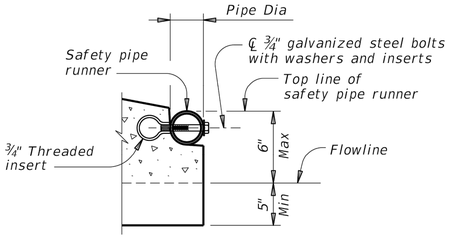


INSTALLATION DETAIL FOR SAFETY PIPE RUNNERS

(If required)



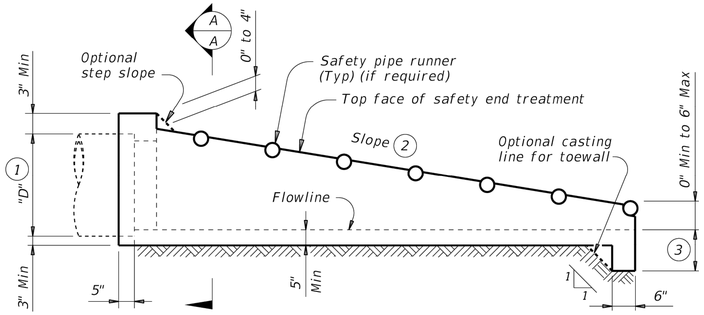
OPTION A



OPTION B

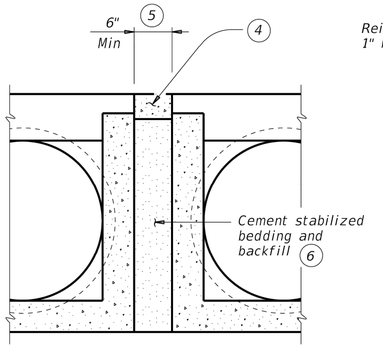
END DETAILS FOR INSTALLATION OF SAFETY PIPE RUNNERS

(If required)

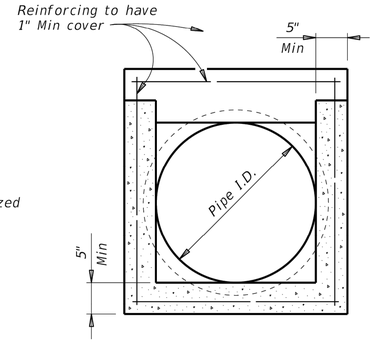


LONGITUDINAL ELEVATION

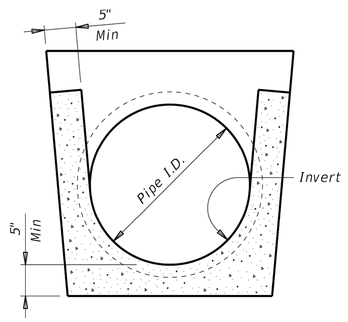
(Showing bell end connection.)



MULTIPLE PIPE INSTALLATION

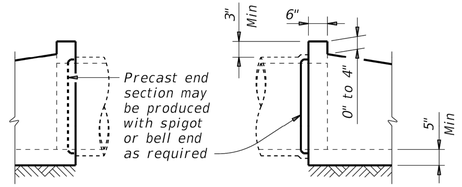


OPTION WITH SQUARE BOTTOM



OPTION WITH INVERT BOTTOM

SECTION A-A



OPTIONAL JOINT FOR RCP

(Showing joint between RCP and precast safety end treatment.)

REQUIREMENTS FOR CULVERT PIPES AND SAFETY PIPE RUNNERS

Pipe I.D.	RCP Wall "B" Thickness	TP Wall Thickness (7)	"D" (1)	Slope	Min Length	Pipe Runners Required		Required Pipe Runner Size		
						Single Pipe	Multiple Pipe	Nominal Dia.	O.D.	I.D.
12"	2"	1.15"	17.00"	6:1	4' – 9"	No	Yes, for > 2 pipes	3" STD	3.500"	3.068"
15"	2 ¼"	1.30"	20.50"	6:1	6' – 5"	No	Yes, for > 2 pipes	3" STD	3.500"	3.068"
18"	2 ½"	1.60"	24.00"	6:1	8' – 0"	No	Yes, for > 2 pipes	3" STD	3.500"	3.068"
24"	3"	1.95"	31.00"	6:1	11' – 3"	No	Yes, for > 2 pipes	3" STD	3.500"	3.068"
30"	3 ½"	2.65"	38.50"	6:1	14' – 8"	No	Yes	4" STD	4.500"	4.026"
36"	4"	2.75"	45.50"	6:1	17' – 11"	Yes	Yes	4" STD	4.500"	4.026"
42"	4 ½"	2.7"	52.50"	6:1	21' – 2"	Yes	Yes	4" STD	4.500"	4.026"

(1) Dimension "D" is based on reinforced concrete pipe (RCP) meeting the requirements of ASTM C–76, Class III, (RCP Wall "B" thickness). Adjust "D" for any other wall thickness used. For thermoplastic pipe (TP) take into account the annular space requirements for grouted connections.

(2) Slope as shown elsewhere in the plans. Slope of 6:1 or flatter is required for vehicle safety.

(3) Toewall to be used only when dimension is shown elsewhere in the plans.

(4) Fill the top 4" of void between precast end treatments with concrete riprap. Concrete riprap is considered subsidiary to the Item 467, "Safety End Treatment."

(5) Adjust clear distance between pipes to provide for the minimum distance between safety end treatments.

(6) Provide cement stabilized bedding and backfill in accordance with the Item 400, "Excavation and Backfill for Structures." Bedding and backfill is considered subsidiary to the Item 467, "Safety End Treatment." When concrete riprap is specified around the safety end treatment, backfill as directed by Engineer.

(7) Thermoplastic pipe wall thickness may vary. Adjust accordingly. Thermoplastic pipe requires the safety end treatments to have a bell end for grouted connections.

GENERAL NOTES:

Precast safety end treatment for reinforced concrete pipe (RCP), and thermoplastic pipe (TP) may be used for TYPE II end treatment as specified in Item "Safety End Treatment."

When precast safety end treatment is used as a Contractor's alternate to mitered RCP, riprap will not be required unless noted otherwise on the plans.

Synthetic fibers listed on the "Fibers for Concrete" Material Producer List (MPL) may be used in lieu of steel reinforcing in riprap concrete unless noted otherwise.

Manufacture this product in accordance with Item 467, "Safety End Treatment" except as noted below :

A. Provide minimum reinforcing of #4 at 6" (Grade 40) or #4 at 9" (Grade 60) each way or 6"x6" – D12 x D12 or 5"x5" – D10 x D10 welded wire reinforcement (WWR).

B. For precast (steel formed) sections, provide Class "C" concrete (f'c = 3,600 psi).

At the option and expense of the Contractor the next larger size of safety end treatment may be furnished; as long as the "D" dimension cast is that of the required size of pipe.

Pipe runners are designed for a traversing load of 10,000 Lbs at yield as recommended by Research Report 280–2F, "Safety Treatment of Roadside Parallel–Drainage Structures", Texas Transportation Institute, March 1981.

Provide pipe runners meeting the requirements of ASTM A53 (Type E or S, Grade B), ASTM A500 (Grade B), or API 5LX52.

Galvanize all steel components except reinforcing steel after fabrication. Repair galvanizing damaged during transport or construction in accordance with the specifications.

Connect RCP using the Optional Joint for RCP detail shown or in accordance with Item 464, "Reinforced Concrete Pipe." Connect TP by grouting. See Pipe and Box Grouted Connections (PBGC) standard for grouted connections with TP and precast safety end treatment.

Texas Department of Transportation

Bridge Division Standard

PRECAST SAFETY END TREATMENT

TYPE II ~ PARALLEL DRAINAGE

PSET-SP

FILE: CD-PSET-SP-21.dgn	DN: RLW	CK: KLR	DW: JTR	CK: GAF
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REVISIONS 12-21: Added 42" TP	DIST	COUNTY		SHEET NO.

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

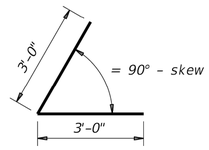
Dimensions					Variable Reinforcing				Estimated Quantities per ft of wing (2~wings) (4)		Estimated Quantities per ft of Toewall (1~toewall)	
					Bars J1		Bars J2					
Maximum Wingwall Height Hw	W	X	Y	Z	Size	Spa	Size	Spa	Reinf (Lb/Ft)	Conc (CY/Ft)	Reinf (Lb/Ft)	Conc (CY/Ft)
2'–6"	2'–10"	10"	1'–0"	7"	#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'–9"	1'–7"	1'–2"	7"	#4	1'–0"	#4	1'–0"	63.45	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"	85.05	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"	#5	6"	196.27	1.234	8.57	0.117
11'–6"	7'–2"	3'–6"	2'–8"	11"	#6	6"	#6	6"	230.13	1.438	9.52	0.140
12'–6"	7'–8"	3'–9"	2'–11"	1'–0"	#7	6"	#6	6"	283.41	1.592	9.74	0.157
13'–6"	8'–2"	4'–0"	3'–2"	1'–2"	#8	6"	#6	6"	348.72	1.804	10.02	0.186
14'–6"	8'–10"	4'–5"	3'–5"	1'–4"	#9	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)

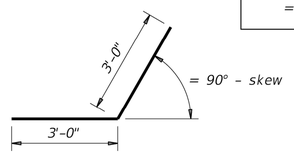
Bar	Size	No.	Spa
D1	#6	~	1'–0"
D2	#6	~	1'–0"
E1	#4	~	1'–0"
F	#4	~	1'–0"
G	#6	~	8"
M1	#4	4	~
P	#4	~	1'–0"
V	#4	~	1'–0"

TABLE OF TOEWALL REINFORCING

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



BARS D1



BARS D2

WING DIMENSION FORMULAS:

(All values are in feet.)

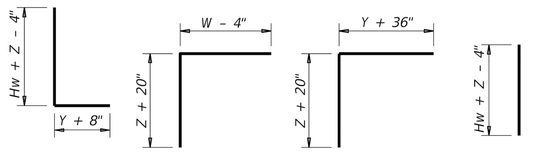
Hw = H + T + C
Lw = (Hw) (SL) ÷ cosine (θ) for Type PW–1
= (Hw – 1') (SL) ÷ cosine (θ) for Type PW–2 and Hw ≥ 4'
= (Hw – 0.5') (SL) ÷ cosine (θ) for Type PW–2 and Hw < 4'

For cast–in–place culverts:
Ltw = [(N) (S) + (N + 1) (U)] ÷ cosine (θ)

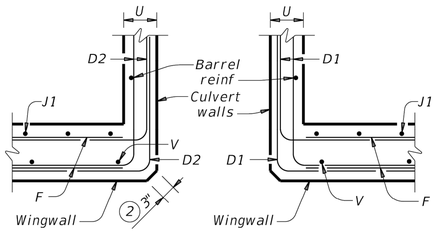
For precast culverts:
Ltw = [(N) (2 U + S) + (N – 1) (0.5')] ÷ cosine (θ)
Total Wingwall Area (two wings ~ SF)
= (2)(Hw)(Lw) for Type PW–1
= (2)(Hw)(Lw) – 6 SF for Type PW–2 and Hw ≥ 4'
= (2)(Hw)(Lw) – 1.5 SF for Type PW–2 and Hw < 4'

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

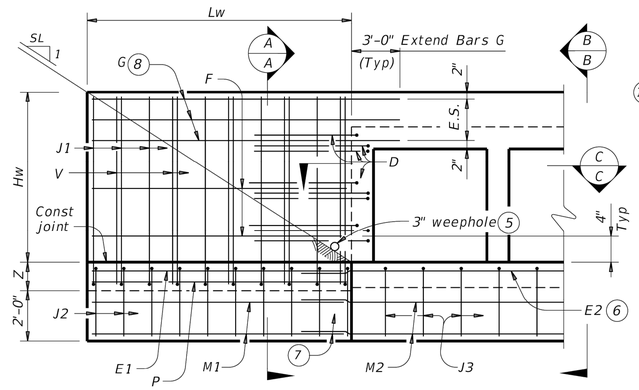
See applicable box culvert standard sheet for S, H, T, and U values.



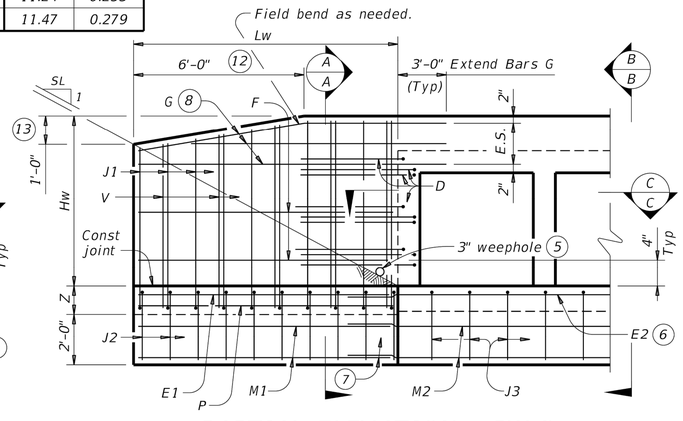
BARS J1 BARS J2 BARS J3 BARS V



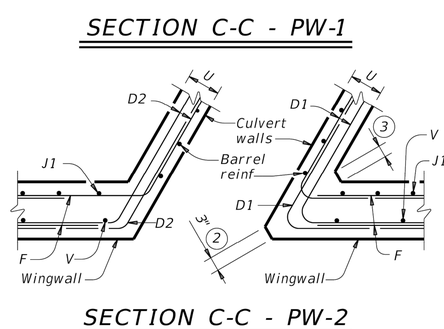
SECTION C-C - PW-1



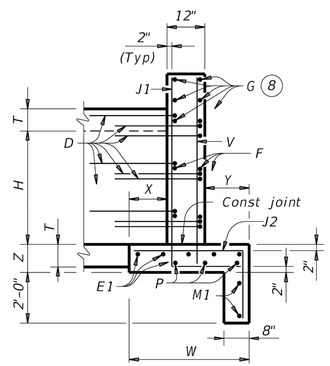
PARTIAL ELEVATION - PW-1



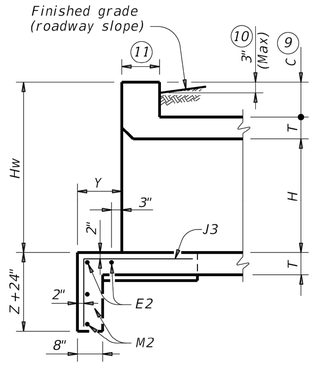
PARTIAL ELEVATION - PW-2



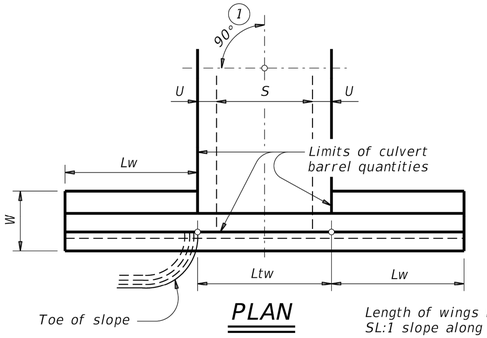
SECTION C-C - PW-2



SECTION A-A
(Showing wing reinforcement.)

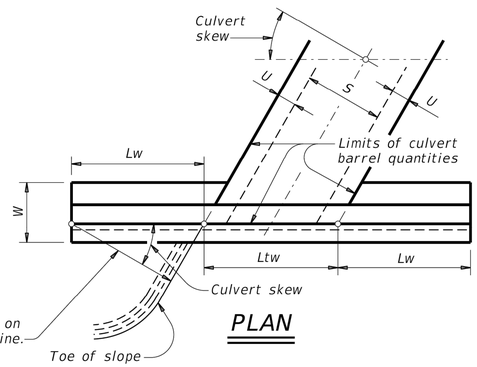


SECTION B-B
(Showing wing reinforcement.)



PLAN

DETAILS FOR NON-SKEWED BOX CULVERTS



PLAN

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

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. 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–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 elswhere in the plans.
12. 3'–0" for Hw < 4'.
13. 6" for Hw < 4'.

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 reinforing 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 dimensions and 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: pwstde01-20.dgn	DN: GAF	CK: CAT	DW: TxDOT	CK: TxDOT
©TxDOT February 2020	CONT	SECT	JOB	HIGHWAY
REVISIONS	DIST	COUNTY		SHEET NO.

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DATE:
FILE:

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

Dimensions					Variable Reinforcing				Estimated Quantities per ft of wing length (2~wings) (3)	
					Bars J1		Bars J2			
Maximum Wingwall Height Hw	W	X	Y	Z	Size	Spa	Size	Spa	Reinf (Lb/Ft)	Conc (CY/Ft)
2'-6"	2'-5"	1'-0"	9"	7"	#4	1'-0"	#4	1'-0"	33.73	0.248
3'-0"	2'-5"	1'-0"	9"	7"	#4	1'-0"	#4	1'-0"	37.07	0.261
3'-6"	2'-5"	1'-0"	9"	7"	#4	1'-0"	#4	1'-0"	37.74	0.273
4'-0"	2'-5"	1'-0"	9"	7"	#4	1'-0"	#4	1'-0"	38.41	0.285
4'-6"	3'-2"	1'-6"	1'-0"	7"	#4	1'-0"	#4	1'-0"	41.75	0.330
5'-0"	3'-2"	1'-6"	1'-0"	7"	#4	1'-0"	#4	1'-0"	45.09	0.343
5'-6"	3'-2"	1'-6"	1'-0"	7"	#4	1'-0"	#4	1'-0"	45.75	0.355
6'-0"	3'-2"	1'-6"	1'-0"	7"	#4	1'-0"	#4	1'-0"	46.42	0.367
7'-0"	3'-8"	1'-9"	1'-3"	7"	#4	1'-0"	#4	1'-0"	52.77	0.414
8'-0"	4'-2"	2'-0"	1'-6"	8"	#5	1'-0"	#4	1'-0"	60.19	0.486
9'-0"	4'-8"	2'-3"	1'-9"	8"	#4	6"	#4	6"	81.49	0.535
10'-0"	5'-2"	2'-6"	2'-0"	8"	#5	6"	#4	6"	97.25	0.584
11'-0"	5'-8"	2'-9"	2'-3"	8"	#6	6"	#5	6"	133.65	0.634
12'-0"	6'-2"	3'-0"	2'-6"	9"	#7	6"	#5	6"	162.29	0.721
13'-0"	6'-8"	3'-3"	2'-9"	11"	#7	6"	#5	6"	178.80	0.856
14'-0"	7'-2"	3'-6"	3'-0"	1'-0"	#8	6"	#5	6"	216.78	0.959
15'-0"	7'-8"	4'-0"	3'-0"	1'-1"	#9	6"	#6	6"	283.06	1.068
16'-0"	8'-2"	4'-6"	3'-0"	1'-3"	#9	6"	#6	6"	297.02	1.234

TABLE OF WINGWALL REINFORCING
(2~wings)

Bar	Size	No.	Spa
D	#5	~	1'-0"
E	#4	~	1'-0"
F	#4	~	1'-0"
G	#6	4	~
M	#4	4	~
P	#4	~	1'-0"
R	#5	6	~
V	#4	~	1'-0"

TABLE OF ESTIMATED CULVERT TOEWALL QUANTITIES

Bar	Size	No.	Spa
L	#4	~	1'-6"
Q	#4	1	~
Reinf (Lb/Ft)			2.45
Conc (CY/Ft)			0.037

WING DIMENSION FORMULAS:

(All values are in feet.)

Hw = H + T + C – 0.250'
Lw = (Hw – 0.333') (SL)

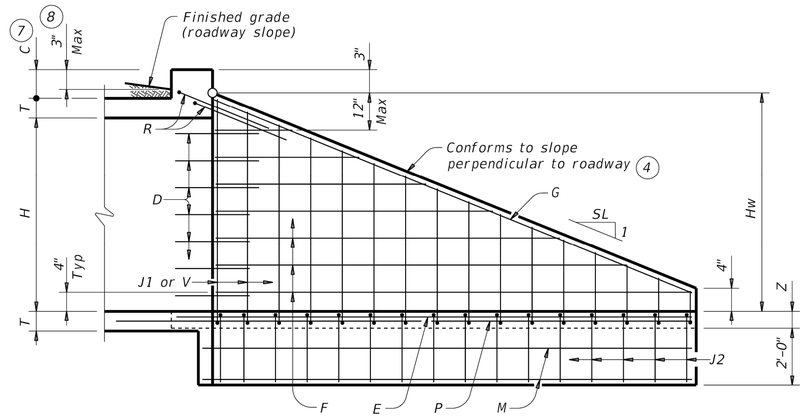
For cast–in–place culverts:
Ltw = (N) (S) + (N + 1) (U)

For precast culverts:
Ltw = (N) (2U + S) + (N – 1) (0.5')

Total Wingwall Area (two wings ~ SF) = (Hw + 0.333') (Lw)

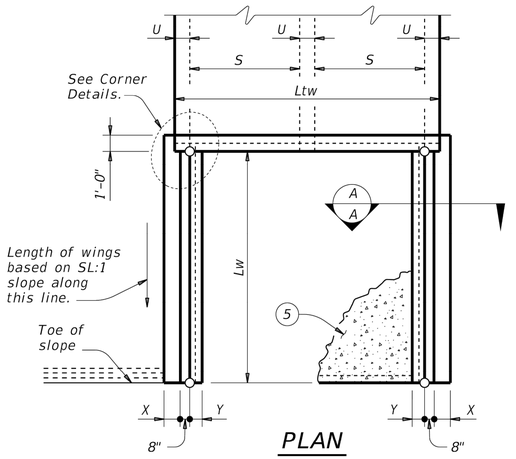
Hw = Height of wingwall
SL:1 = Side slope ratio (horizontal:1 vertical)
Lw = Length of wingwall
Ltw = Culvert toewall length
N = Number of culvert spans

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



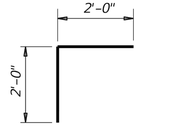
INSIDE ELEVATION

(Showing reinforcing. Culvert and culvert toewall reinforcing not shown for clarity.)

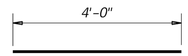


PLAN

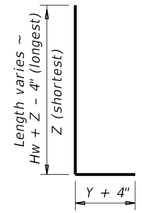
(Showing dimensions.)



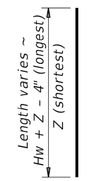
BARS R



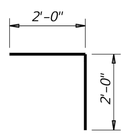
BARS D



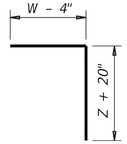
BARS J1



BARS V



BARS L



BARS J2

1. Extend Bars P 3'–0" minimum into bottom slab of box culvert.
2. Adjust as necessary to maintain 1 1#2" clear cover and 4" minimum between bars.
3. Quantities shown are based on an average wing height for two wings (one structure end). To determine total quantities for two wings, multiply the tabulated values by Lw.
4. Recommended values of side slope are: 2:1, 3:1, 4:1, and 6:1.
5. When shown elsewhere on the plans, construct 5" deep concrete riprap. Payment for riprap is as required by Item 432, "Riprap". Unless otherwise shown on the plans or directed by the Engineer, provide a 6" wide by 1'–6" deep reinforced concrete toewall along all edges of the riprap adjacent to natural ground; reinforce the toewall by extending typical riprap reinforcing into the toewall; and extend construction joints or grooved joints oriented in the direction of flow across the full distance of the riprap at intervals of approximately 20'. When such riprap is provided, the culvert toewall shown in SECTION B–B will not be required.
6. At Contractor's option, culvert toewall may be ended flush with wingwall toewall. Adjust reinforcing as needed.
7. 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–CM) standard sheet. Refer to the Box Culvert Rail Mounting Details (RAC) standard sheet for structures with bridge rail other than T631 or T631LS.
8. 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.

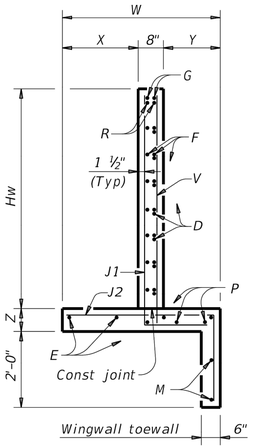
MATERIAL NOTES:

Provide Class C concrete (f'c=3,600 psi).
Provide Grade 60 reinforcing steel.
Provide galvanized reinforcing steel if required elsewhere in the plans.
In riprap concrete, synthetic fibers listed on the "Fibers for Concrete" Material Producer List (MPL) may be used in lieu of steel reinforcing unless noted otherwise.

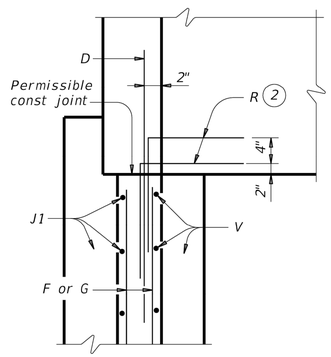
GENERAL NOTES:

Designed according to AASHTO LRFD Bridge Design Specifications.
When structure is founded on solid rock, depth of toewalls for culverts and wingwalls may be reduced or eliminated as directed by the Engineer.
See Box Culvert Supplement (BCS) standard sheet for additional dimensions and information.
The quantities for concrete and reinforcing steel resulting from the formulas given on this sheet are for Contractor's information only.

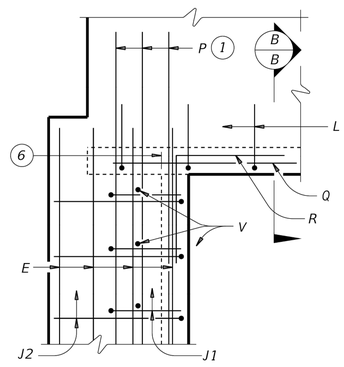
Cover dimensions are clear dimensions, unless noted otherwise.
Reinforcing dimensions are out–to–out of bars.



SECTION A-A

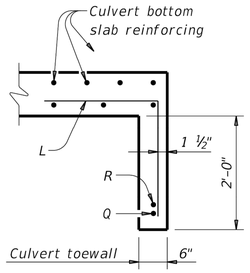


WINGWALL



FOOTING AND TOEWALL

CORNER DETAILS



SECTION B-B (5)

Texas Department of Transportation

Bridge Division Standard

CONCRETE WINGWALLS WITH STRAIGHT WINGS FOR 0° SKEW BOX CULVERTS

SW-O

FILE: sw-0stde-20.dgn	DN: GAF	CK: CAT	DW: TxDOT	CK: TxDOT
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REVISIONS				
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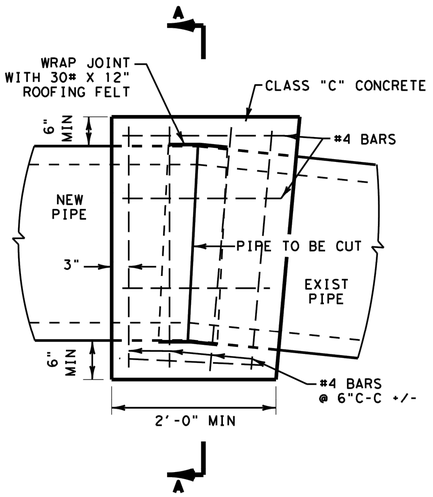
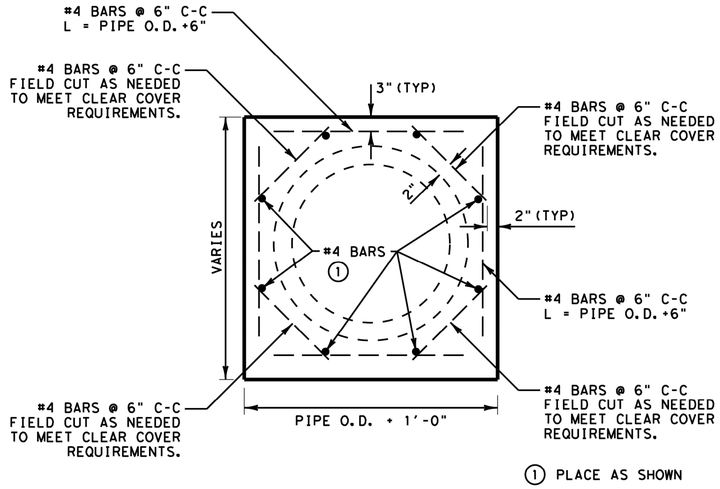


PLAN/ELEVATION



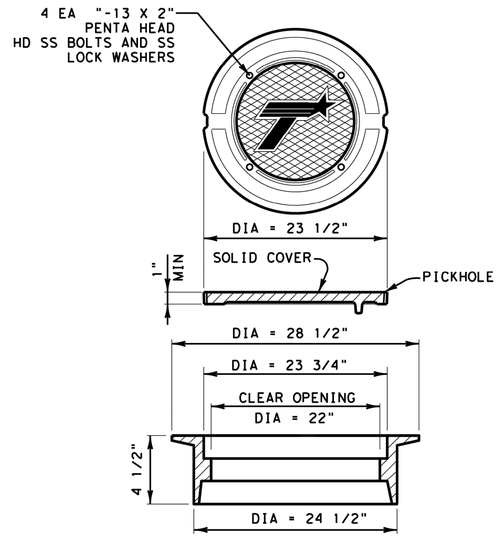
SECTION A-A

PIPE COLLAR GENERAL NOTES

1. THE CONTRACTOR SHALL TAKE STEPS TO ENSURE A SMOOTH JOINT ALONG THE INSIDE WALL OF PIPE.
2. ANY SPILLAGE OF CONCRETE THROUGH THE JOINT SHALL BE REMOVED AND THE INSIDE PIPE SURFACES SMOOTHED AS DIRECTED BY THE ENGINEER.
3. PIPE COLLARS WILL NOT BE PAID FOR DIRECTLY, BUT SHALL BE CONSIDERED SUBSIDIARY TO ITEM 464.

PIPE COLLAR DETAIL

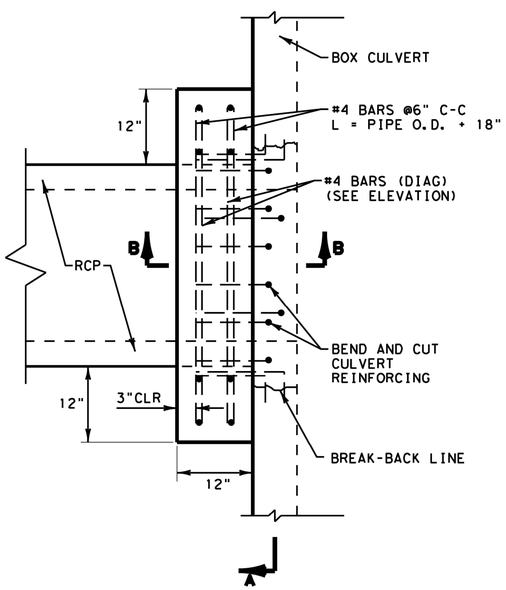
FOR HORIZONTAL OR VERTICAL PLACEMENT
N.T.S.



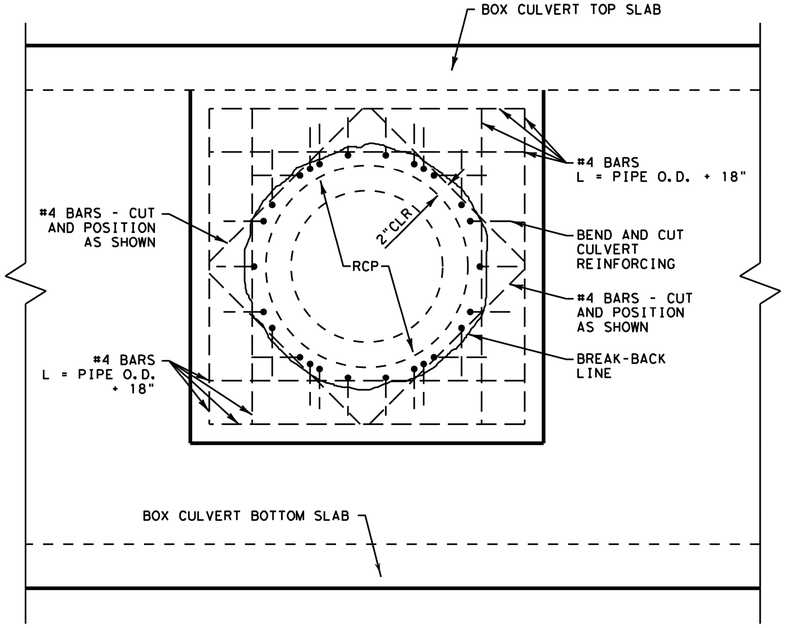
RING AND COVER DETAILS

MANHOLES AND CURB INLETS
N.T.S.

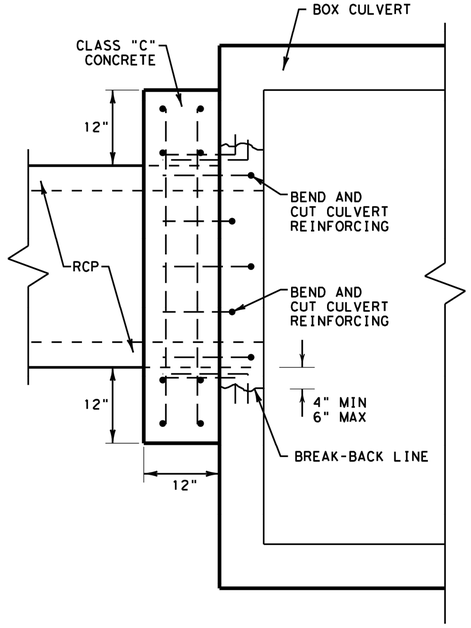
RING AND COVER SHALL CONFORM TO THE REQUIREMENTS OF ITEM 471 AND SHALL BE INCLUDED IN THE CURRENT TXDOT "APPROVED CAST IRON PRODUCTS SHEETS"



PLAN VIEW



SECTION A-A



SECTION B-B

PIPE STUB-IN GENERAL NOTES

1. SAW CUT A MAXIMUM 1/2" DEPTH AT BREAK-BACK LINE. USE REMOVAL METHODS THAT WILL NOT DAMAGE REMAINING CONCRETE OR CULVERT REINFORCING.
2. EXPOSE AND CLEAN BOX CULVERT REINFORCING. BEND BARS INTO PROPOSED CONNECTION AND TIE TO CONNECTION REINFORCING.
3. ROUGHEN AND CLEAN EXISTING CONCRETE SURFACES THAT ARE IN CONTACT WITH NEW CONCRETE BEFORE PLACING FORMS.
4. MATERIAL & LABOR FOR PIPE/BOX CONNECTIONS WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE SUBSIDIARY TO ITEMS 462 AND 464.

PIPE STUB-IN CONNECTION TO BOX CULVERT OR EXISTING DRAINAGE STRUCTURE

N.T.S.

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MISCELLANEOUS DRAINAGE DETAILS
MDD(FTW)

ORIGINAL DRAWING: 05/2019	mdd-ftw.dgn	FED.RD. DIV.NO.	PROJECT NO.	SHEET NO.
DATE	REVISIONS	6		
05/2019	NEW STANDARD	STATE	STATE DIST.NO.	COUNTY
		TEXAS	FTW	
		CONT.	SECT.	JOB / HIGHWAY NO.

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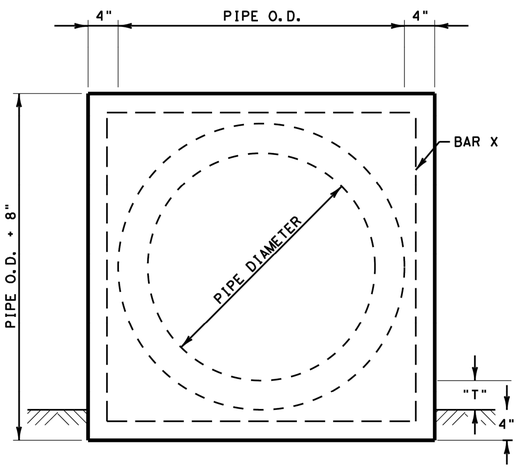
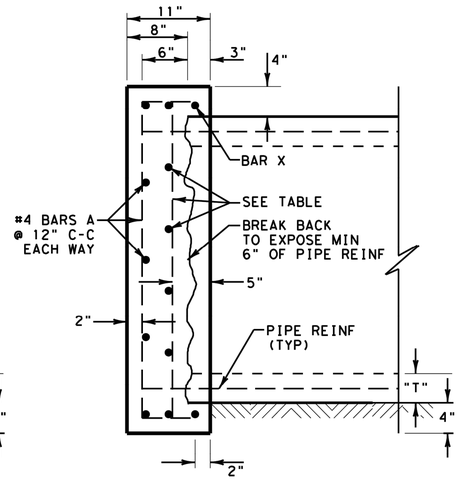
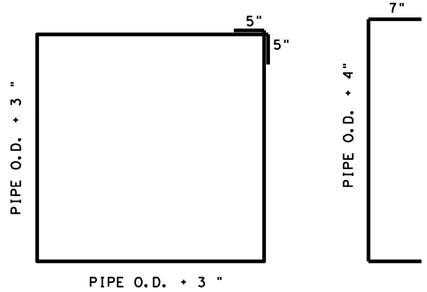


FRONT ELEVATION



SIDE ELEVATION



#4 BAR X

#4 BAR A

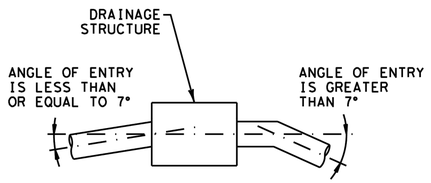
INNER REINFORCING SIZE/SPACING		
PIPE DIA (IN)	MAXIMUM DEPTH	
	15'	30'
<48	#4 @ 12" C-C	#4 @ 12" C-C
60	#4 @ 12" C-C	#4 @ 10" C-C
72	#4 @ 12" C-C	#5 @ 10" C-C
84	#4 @ 10" C-C	#5 @ 8" C-C

PIPE END CAP GENERAL NOTES

1. "T" = PIPE WALL THICKNESS.
2. ALL CONCRETE SHALL BE CLASS "C".
3. ALL REINFORCING STEEL SHALL BE GRADE 60.
4. OCTAGONAL PLUG MAY BE USED IN LIEU OF SQUARE. PROVIDE 4" MINIMUM COVER OVER OUTSIDE OF PIPE. DIMENSIONS OF PIPE PLUG AND REINFORCING TO BE AS APPROVED.

DRAINAGE PIPE END CAP OR PLUG DETAILS

N.T.S.

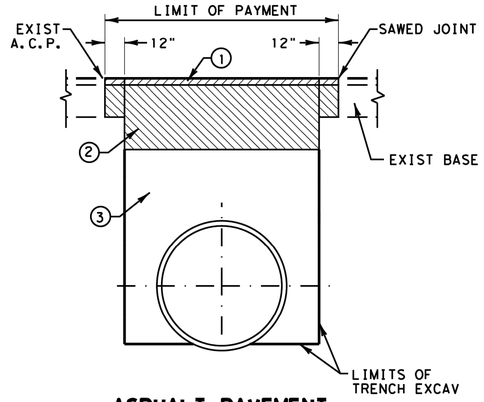


CONNECT PIPES WITHIN 7° OF NORMAL TO INLET OR MANHOLE. IF NECESSARY, USE PIPE ELBOW OR CURVED APPROACH ALIGNMENT TO STAY WITHIN THIS LIMIT.

PIPE CONNECTION

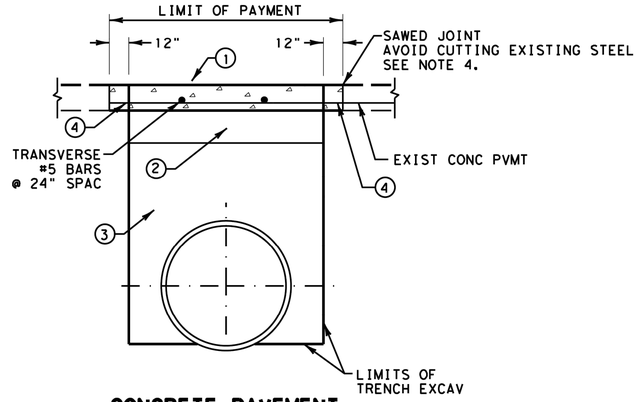
N.T.S.

1. APPROX 2" HOT MIX, TYPE C, OR AS DIRECTED.
2. APPROX 10" HOT MIX BASE, TYPE B, OR AS DIRECTED.
3. CEMENT STABILIZED BACKFILL IN ACCORDANCE WITH ITEM 400.3.3.1, 400.3.3.2, 400.3.3.3., AND 400.3.3.4.



ASPHALT PAVEMENT

1. CLASS "A", "P", OR "HES" CONCRETE PAVEMENT. MATCH EXISTING PAVEMENT DEPTH. USE CLASS "HES" IF OPENING TO TRAFFIC LESS THAN 72 HOURS AFTER PLACEMENT.
2. 4" COLD MIX ASPHALT BASE. PLACE BASE MATERIAL IN ACCORDANCE WITH ITEM 361.2.2.2.
3. CEMENT STABILIZED BACKFILL IN ACCORDANCE WITH ITEM 400.3.3.1, 400.3.3.2, 400.3.3.3., AND 400.3.3.4.
4. AT CONTRACTOR'S OPTION, USE FULL-DEPTH SAW CUT AND TIE TO EXISTING PAVEMENT IN ACCORDANCE WITH ITEM 361.4.2. FOR PARTIAL DEPTH SAW CUT, EXPOSE MINIMUM 8" OF LONGITUDINAL REINFORCING AND CONSTRUCT 8" WELDED LAP (MATCH LONGITUDINAL PAVEMENT REINFORCEMENT).



CONCRETE PAVEMENT

CUTTING AND RESTORING PAVEMENT DETAILS

N.T.S.

CUTTING AND RESTORING PAVEMENT GENERAL NOTES

1. HOT MIX OR CONCRETE PAVEMENT WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE SUBSIDIARY TO CUTTING AND RESTORING PAVEMENT.
2. CONCRETE CURB OR CURB AND GUTTER WILL BE INCLUDED IN AREA OF "CUTTING AND RESTORING PAVEMENT". CONSTRUCT CURB OR CURB AND GUTTER ACCORDING TO PLAN DETAILS, OR AS DIRECTED. REMOVAL AND REPLACMENT OF CONCRETE CURB OR CURB AND GUTTER WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE SUBSIDIARY TO CUTTING AND RESTORING PAVEMENT.
3. CEMENT STABILIZED BACKFILL WILL BE MEASURED AND PAID FOR IN ACCORDANCE WITH ITEM 400.
4. SEE STANDARD JS (FTW) FOR JOINT SEALING DETAILS.
5. "NON-EXCAVATABLE" FLOWABLE BACKFILL, AS DEFINED BY ITEM 401, TABLE 2, MAY BE USED AS A SUBSITITUTE FOR CEMENT STABILIZED BACKFILL, WITH THE FOLLOWING CONSTRAINTS:
   a). PLACE FLOWABLE FILL IN LIFTS NOT EXCEEDING 2 FEET IN DEPTH; PLACE EACH SUCCESSIVE LIFT WHEN THE PREVIOUS LIFT HAS STIFFENED/HARDENED (HAS LOST ITS FLOWABILITY).
   b). NO ADJUSTMENT IN PAYMENT WILL BE MADE FOR SUBSTITUTION OF FLOWABLE FILL IN LIEU OF CEMENT STABILIZED BACKFILL.

Texas Department of Transportation | Fort Worth District Standard

MISCELLANEOUS DRAINAGE DETAILS
MDD(FTW)

ORIGINAL DRAWING: 05/2019	mdd-ftw.dgn	FED.RD. DIV.NO.	PROJECT NO.	SHEET NO.
DATE	REVISIONS	6		
05/2019	NEW STANDARD	STATE	STATE DIST.NO.	COUNTY
07/2020	REVISE CUT & RESTORE PAVEMENTS FOR CSB & FLOWABLE FILL; ALLOW OCTAGONAL PIPE PLUG; EDIT GENERAL NOTES	TEXAS	FTW	
		CONT.	SECT.	JOB / HIGHWAY NO.

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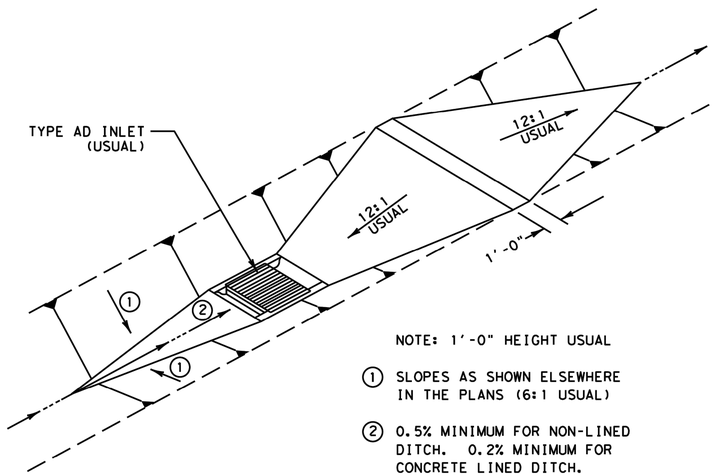
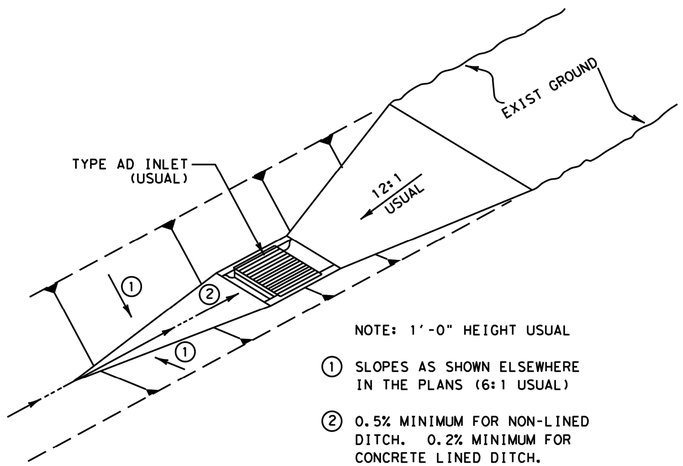


NOTE: 1'-0" HEIGHT USUAL

(1) SLOPES AS SHOWN ELSEWHERE IN THE PLANS (6:1 USUAL)

(2) 0.5% MINIMUM FOR NON-LINED DITCH. 0.2% MINIMUM FOR CONCRETE LINED DITCH.

CONTINUOUS DITCH

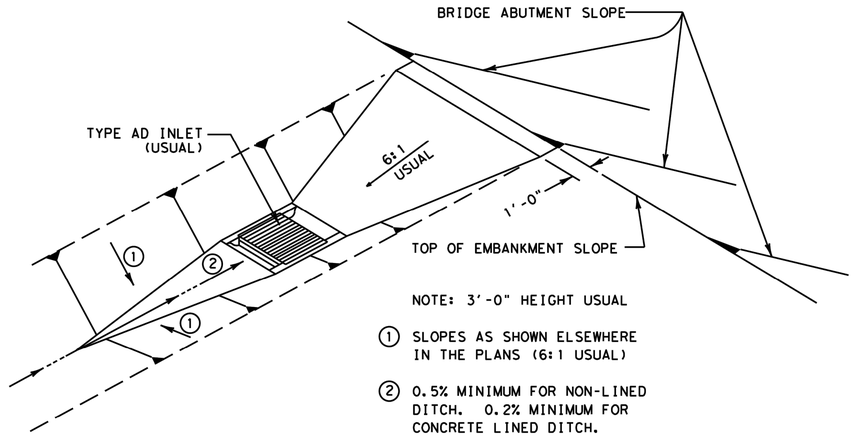


NOTE: 1'-0" HEIGHT USUAL

(1) SLOPES AS SHOWN ELSEWHERE IN THE PLANS (6:1 USUAL)

(2) 0.5% MINIMUM FOR NON-LINED DITCH. 0.2% MINIMUM FOR CONCRETE LINED DITCH.

DITCH TERMINATION



NOTE: 3'-0" HEIGHT USUAL

(1) SLOPES AS SHOWN ELSEWHERE IN THE PLANS (6:1 USUAL)

(2) 0.5% MINIMUM FOR NON-LINED DITCH. 0.2% MINIMUM FOR CONCRETE LINED DITCH.

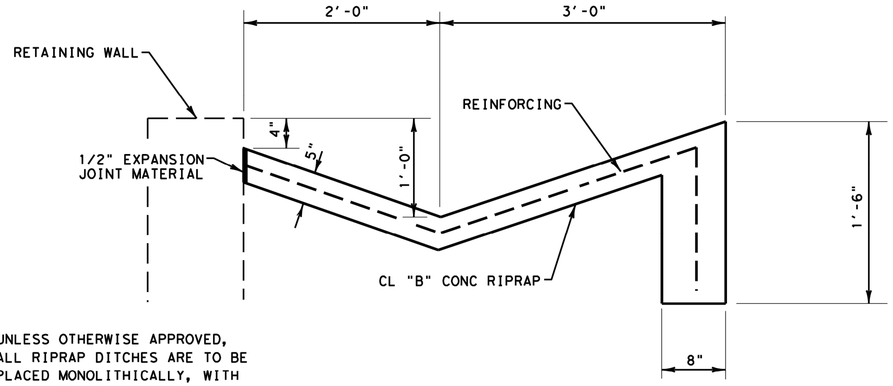
DITCH TERMINATION AT BRIDGE END

DITCH BLOCK GENERAL NOTES

1. DITCH BLOCK AND INLET LOCATIONS SHOWN ELSEWHERE IN THE PLANS.
2. DITCH BLOCKS WILL NOT BE PAID FOR DIRECTLY, BUT WILL BE SUBSIDIARY TO THE VARIOUS BID ITEMS.

DITCH BLOCK DETAILS

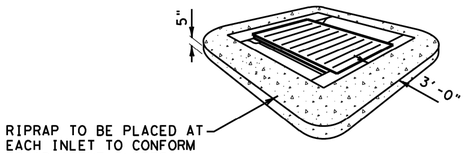
N.T.S.



UNLESS OTHERWISE APPROVED, ALL RIPRAP DITCHES ARE TO BE PLACED MONOLITHICALLY, WITH NO CONSTRUCTION JOINTS.

RIPRAP DITCH AT RETAINING WALL

N.T.S.



RIPRAP TO BE PLACED AT EACH INLET TO CONFORM TO ADJACENT SLOPES.
SINGLE INLET: 1 CY
DOUBLE INLET: 2 CY

TYPICAL RIPRAP APRON DETAIL

TYPE AD INLET SHOWN
TYPE AD-2 INLET IS SIMILAR

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MISCELLANEOUS DRAINAGE DETAILS
MDD(FTW)

ORIGINAL DRAWING: 05/2019	mdd-ftw.dgn	FED.RD. DIV.NO.	PROJECT NO.	SHEET NO.
DATE	REVISIONS	6		
05/2019	NEW STANDARD	STATE	STATE DIST.NO.	COUNTY
11/2020	ADD NOTE FOR MONOLITHIC PLACEMENT OF RIPRAP DITCHES	TEXAS	FTW	
		CONT.	SECT.	JOB / HIGHWAY NO.

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