

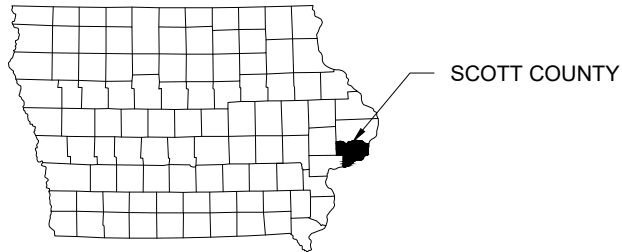
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CITY OF BETTENDORF

PCC RECREATION TRAIL CONSTRUCTION

LETTING DATE
7/21/2026

IOWA DOT PROJECT NO. TAP-T-0587(646)--8V-82



THIS PROJECT IS COVERED BY THE IOWA DEPARTMENT OF NATURAL RESOURCES NPDES GENERAL PERMIT NO. 2. THE CONTRACTOR SHALL CARRY OUT THE TERMS AND CONDITIONS OF GENERAL PERMIT NO.2 AND THE STORM WATER POLLUTION PREVENTION PLAN WHICH IS PART OF THESE CONTRACT DOCUMENTS. REFER TO SECTION 2602 OF THE STANDARD SPECIFICATIONS FOR ADDITIONAL INFORMATION.



TRANSPORTATION DEVELOPMENT DIVISION

PLANS OF PROPOSED IMPROVEMENT ON THE

URBAN ROAD SYSTEM

CITY OF

BETTENDORF
SCOTT COUNTY

PCC SIDEWALK / TRAIL

IN THE CITY OF BETTENDORF, TRAIL ALONG MIDDLE RD, FROM HOPEWELL TO FOREST GROVE

Refer to the Proposal Form for list of applicable specifications.

Value Engineering Saves. Refer to Article 1105.14 of the Specifications.

MILEAGE SUMMARY			105-1
			09-27-94
Div.	Location	Lin. Ft.	Miles
	MIDDLE ROAD TRAIL		
	10+10.04 TO 36+94.28	2685	0.51
	NET TOTAL LENGTH OF PROJECT	2685	0.51

FOR PROJECT LOCATION
MAP REFER TO SHEET A.2


FOR STANDARD ROAD
PLANS REFER TO SHEET A.3

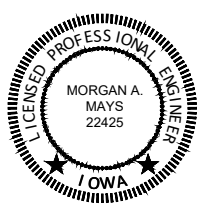
UTILITY CONTACT INFORMATION
REFER TO SHEET A.3

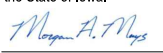
	TOTAL
	82
CITY PROJECT NUMBER	
PW0591	
IOWA DOT PROJECT NUMBER	
TAP-T-0587(646)--8V-82	

INDEX OF SHEETS		105-3
		10-18-05
No.	Description	
A.1 - A.4	TITLE SHEET, LOCATION MAP, LEGEND, NOTES & PROJECT PROVISIONS	
B.1 - B.4	TYPICAL CROSS SECTIONS AND DETAILS	
C.1 - C.11	QUANTITIES, TABULATIONS AND SWPPP	
CR.1 - CR.5	REMOVALS SHEETS	
D.1 - D.6	MAINLINE PLAN AND PROFILE SHEETS	
G.1 - G.3	SURVEY SHEETS	
H.1 - H.5	RIGHT-OF-WAY SHEETS	
J.1 - J.6	TRAFFIC CONTROL & STAGING	
M.1-M.3	STORM SEWER TABULATIONS AND PLAN & PROFILE SHEETS	
R.1 - R.5	EROSION AND SEDIMENT CONTROL PLANS	
SD.1-SD.2	DRIVEWAY SHEETS	
W.1 - W.28	MAINLINE CROSS SECTIONS	

LPA APPROVAL

 03/13/2026
Approved by Date
Brent Morlok, City Engineer
Printed or Typed Name



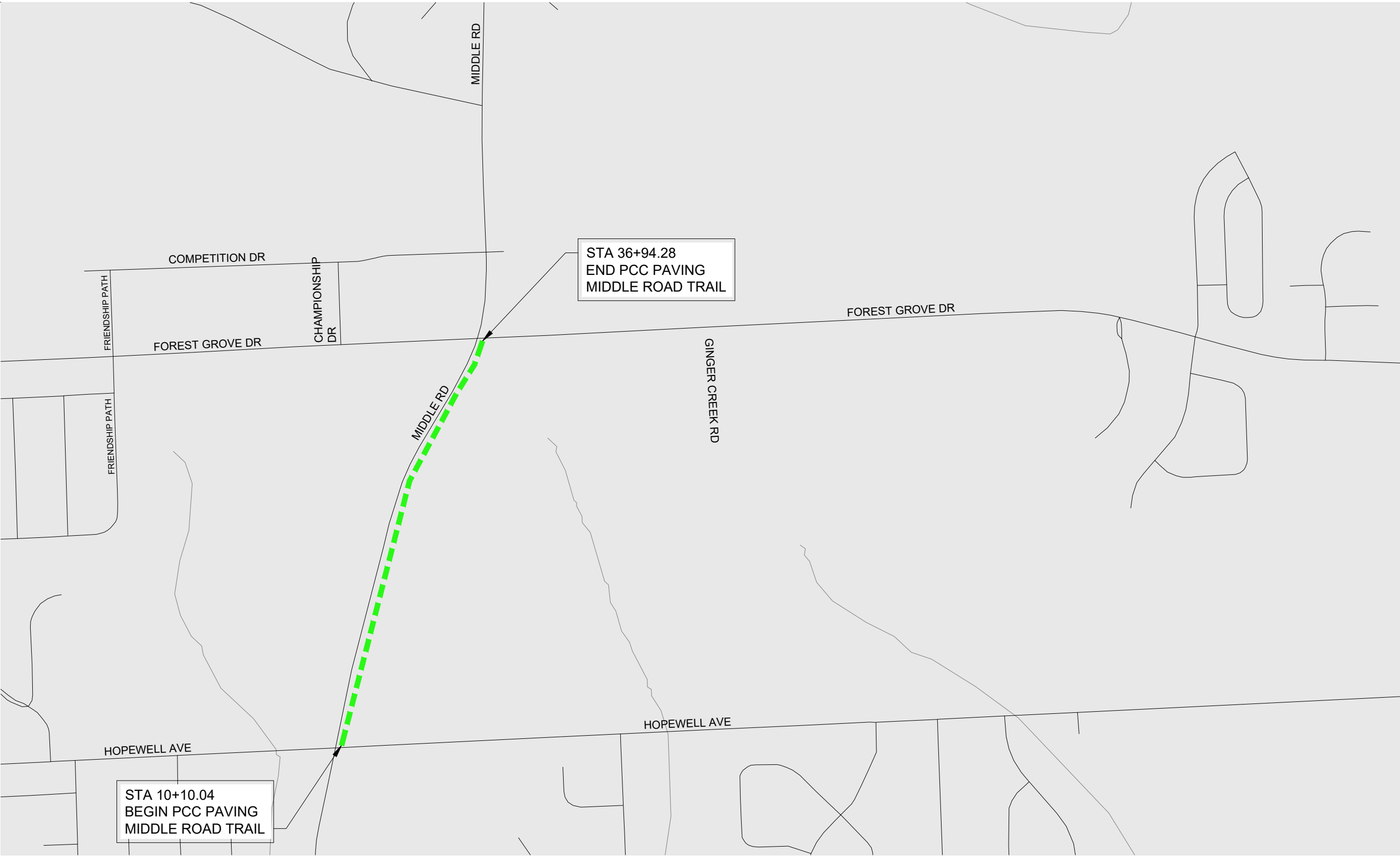
I hereby certify that this engineering document was prepared by me or under my direct personal supervision and that I am a duly licensed Professional Engineer under the laws of the State of Iowa.
 03/13/2026
Signature Date
Morgan A. Mays
Printed or Typed Name
My license renewal date is December 31, 2027

Pages or sheets covered by this seal: All Sheets (See Index)

PLANS PREPARED BY:



HDR Engineering, Inc.
4620 E 53rd St, Suite 200
Davenport, IA 52807
563.293.3627



NOT TO SCALE

LEGEND
PROJECT LIMITS

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EXISTING		LEGEND		PROPOSED	
		ACC / PCC / Curb Centerline Sanitary Sewer Storm Sewer Water Main Subdrain Pipe Casing Safety Fence Wall Handrail Gravel Vegetation Joint			
		Storm Manhole			
		Sanitary Manhole			
		Utility Pole			
		Light Pole			
		Utility Pole with Luminaire			
		Utility Pole with Transformer			
		Traffic Signal			
		Telephone Pedestal			
		Electrical Meter			
		Electrical Transformer			
		Handhole			
		Gas Meter			
		Air Conditioning Unit			
		Down Spout			
		Well			
		Utility Marker			
		Guy Wire			
		Sign			
		Mailbox			
		Pole			
		Storm FES			
		Water Hydrant			
		Water Valve			
		Control Point			
		Stump			
		Deciduous / Coniferous Tree			

UTILITY LEGEND	
MAE	MidAmerican Energy- Electric Erik Rasmussen 563-333-8705 qclocates@midamerican.com
MAG	MidAmerican Energy - Gas Matt Kovacic 309-793-3704 qclocates@midamerican.com
F08	City of Bettendorf - Fiber Optics Casey Hoffman 563-344-4050 choffmann@bettendorf.org
MNB	MNA/Bluebird - Fiber Optics Jamie Scott 314-270-8738 james.scott@bluebirdnetwork.com
ICN	Iowa Communications Network (ICN) - Fiber Optics Shannon Marlow 800-572-3940 icnoutsideplantiowaonecall@iowa.gov
CFL	Century Link - Fiber Optic / Telephone Sadie Hull 918-547-0147 sadie.hull@lumen.com
CTL	
WXN	Windstream Communications - Fiber Optics Locate Desk 800-941-3430 wci.clec.locate@windstream.com
MET	Metro Fibernet, LLC - Fiber Optics (City Conduit) Lori Kemper 812-213-1050 811design@metronet.com
GNI	Geneseo Communications - Fiber Optics Jay Chalder 309-945-2508 engineering@geneseo.com
	City of Bettendorf - Storm and Sanitary Sewer Brent Morlok 563-344-4055 bmorlok@bettendorf.org
CST	Central Scott Telephone - Fiber Optic Brent Lindle 563-345-8800 outsideplant@cstech.com
IWD	Iowa American Water Company - Water Julie Allender 563-468-9222 julie.allender@amwater.com
UPN	Unite Private Network - Fiber Optic Joe Kilzer 816-425-3556 upngis@upnfiber.com
ATT	AT&T - Communications Lenny Vohs 816-275-4014 lv2121@att.com
FO	Unidentified Fiber Optic

PLAN VIEW COLOR LEGEND OF PLAN AND PROFILE SHEETS	
LINEWORK	
Black	Existing Topographic Features and Labels
Black	Proposed Alignment, Stationing, Tic Marks, and Alignment Annotation
Black	Existing Utilities
Black	Trail, Driveway, Sidewalk, and Future Sidewalk
Black	Road and Shoulder Edge
SHADING	
Gray, Light	Concrete Pavement
Brown, Light	Shared Use Path Pavement
Gray, Med	HMA Pavement
Gray, Light	Granular Shoulder
Gray, Light	Proposed Concrete Pavement, By Others As Part of Separate Project
Gray, Light	Restricted Area
Gray, Light	Restricted Area - NO ACCESS

ROW LEGEND	
LINEWORK	
Grading Limits	
Proposed Right of Way	
Temporary Easement	
Existing Right of Way	
Existing Utility Easement	
Section Line	
Lot Line	
Proposed ROW Acquisition	
Temporary Construction Easement	
Proposed Storm Sewer Easement	

ENGLISH	IOWA DOT	DESIGN TEAM	HDR ENGINEERING	CITY OF BETTENDORF	SCOTT COUNTY	PROJECT NUMBER	TAP-T-0587(646)--8V-82 PW 0591 HDR 10375245	SHEET NUMBER	A.3	PLOTTED	13-Mar-26
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GENERAL UTILITY NOTES

1. PLEASE REFER TO SECTION 1107.15 OF THE IOWA DOT STANDARD SPECIFICATIONS FOR GENERAL UTILITY NOTES.
2. LOCATION, DEPTH, AND SIZE OF EACH UTILITY SHOWN ON THE PLANS IS APPROXIMATE ONLY AND IS NOT GUARANTEED. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXISTENCE AND EXACT LOCATION OF ALL UTILITIES LOCATED WITHIN THE CONSTRUCTION LIMITS TO AVOID DAMAGE.
3. ABANDONED UTILITIES WITHIN THE CONSTRUCTION LIMITS HAVE BEEN IDENTIFIED ON THE PLANS USING AVAILABLE INFORMATION FROM THE CITY AND UTILITY COMPANIES. IF UNMARKED UTILITIES ARE ENCOUNTERED, CONTRACTOR SHALL CONFIRM IF SAID UTILITIES ARE ABANDONED. CONTRACTOR IS RESPONSIBLE FOR REMOVING THESE UTILITIES AS NECESSARY FOR CONSTRUCTION. INFORMATION ON EXISTING UTILITIES WAS PROVIDED BY UTILITY COMPANIES FOR INFORMATION ONLY. CONTRACTOR REFERENCE RELOCATION PLANS PROVIDED BY UTILITY COMPANIES AND VERIFY ALL UTILITIES PRIOR TO EXCAVATION.
4. CONTRACTOR SHALL VERIFY SANITARY AND STORM SEWER PIPE SIZES AND INVERTS PRIOR TO CONSTRUCTION AND PRIOR TO ORDERING MANHOLES AND/OR PIPE. NO ADDITIONAL PAYMENT SHALL BE MADE TO THE CONTRACTOR FOR MATERIAL THAT IS ORDERED AND DOES NOT MATCH PIPE SIZES AND INVERTS THAT ARE TO BE CONFIRMED PRIOR TO CONSTRUCTION. THIS SHALL BE CONSIDERED INCIDENTAL TO THE STORM AND SANITARY STRUCTURE AND PIPE BID ITEMS.
5. CONTRACTOR SHALL REPAIR ALL FIELD/DRAIN TILES ENCOUNTERED DURING CONSTRUCTION AS SPECIFIED OR AT A MINIMUM TO ALLOW FLOW USING LIKE MATERIAL IN NEW CONDITION WITH CITY APPROVED CONNECTIONS. CONTRACTOR SHALL RECORD EXISTING TYPE, SIZE, LOCATION AND DEPTH OF ALL FIELD/DRAIN TILES ENCOUNTERED AND REPAIRED DURING CONSTRUCTION. PROVIDE DATA TO THE CITY FOR INCORPORATION INTO RECORD DRAWINGS.
6. IOWA CODE 480, UNDERGROUND FACILITIES INFORMATION, REQUIRES VERBAL NOTICE TO IOWA ONE-CALL 1-800-292-8989, NOT LESS THAN 48 HOURS BEFORE EXCAVATING, EXCLUDING WEEKENDS AND HOLIDAYS.
7. CONTRACTOR SHALL COORDINATE WITH ALL UTILITY COMPANIES DURING CONSTRUCTION. SOME UTILITIES WILL NEED TO BE PHASED WITH THE PROJECT TO LIMIT SERVICE INTERRUPTIONS TO RESIDENTS.
8. CONTRACTOR SHALL NOTIFY UTILITY COMPANIES 1 WEEK PRIOR TO STARTING CONSTRUCTION.
9. CONTRACTOR TO PROTECT EXISTING UTILITIES IN PLACE. UTILITIES SHOWN ON PLANS WERE EXISTING AS SURVEYED IN DECEMBER 2024. UTILITIES IN CONFLICT THAT REQUIRE MORE THAN FIELD ADJUSTMENTS HAVE BEEN RELOCATED. CONTRACTOR TO FIELD VERIFY ALL UTILITIES.
10. REFER TO UTILITY COORDINATION REQUIREMENTS BELOW.

GENERAL NOTES

1. ALL SITE CONSTRUCTION SHALL BE ACCORDING TO THE IOWA DEPARTMENT OF TRANSPORTATION DESIGN MANUAL AND SPECIFICATIONS. A COPY OF THE DESIGN MANUAL AND SPECIFICATIONS REFERENCED IN THESE PLANS CAN BE FOUND AT <http://www.iowadot.gov>
2. THE CITY OF BETTENDORF IS RESPONSIBLE FOR INSPECTION WITHIN THE PUBLIC RIGHT-OF-WAYS. PROVIDE A MINIMUM OF 72 HOURS NOTICE PRIOR TO STARTING CONSTRUCTION.
3. IF CONTRACTOR OBTAINS ADDITIONAL EASEMENTS FOR STORAGE OF EQUIPMENT AND MATERIALS, COPIES OF AGREEMENTS WITH THE PROPERTY OWNERS SHALL BE PROVIDED TO THE CITY. UPON COMPLETION OF THE USAGE OF THE ADDITIONAL EASEMENTS, CONTRACTOR SHALL ALSO OBTAIN WRITTEN ACCEPTANCE FROM THE OWNER AND PROVIDE A COPY TO THE ENGINEER.
4. CONTRACTOR SHALL COORDINATE THE CONSTRUCTION SCHEDULE WITH CITY STAFF TO AVOID CONFLICTS WITH CITY EVENTS. NO ADDITIONAL COMPENSATION WILL BE MADE FOR COORDINATING SCHEDULES AROUND EVENTS.
5. CONTRACTOR SHALL ASSIST THE CITY INSPECTOR WITH DAILY RECORD KEEPING INCLUDING DOCUMENTING ALL NECESSARY FIELD LOCATIONS AND MEASUREMENTS.
6. ALL EXISTING TREES, SHRUBS, AND OTHER LANDSCAPE ITEMS SHALL BE PROTECTED UNLESS NOTED FOR REMOVAL OR PRUNING. IF NOTED FOR REMOVAL OR PRUNING, CONTRACTOR SHALL OBTAIN PERMISSION PRIOR TO REMOVING OR PRUNING THE LANDSCAPE ITEM.

EROSION CONTROL NOTES

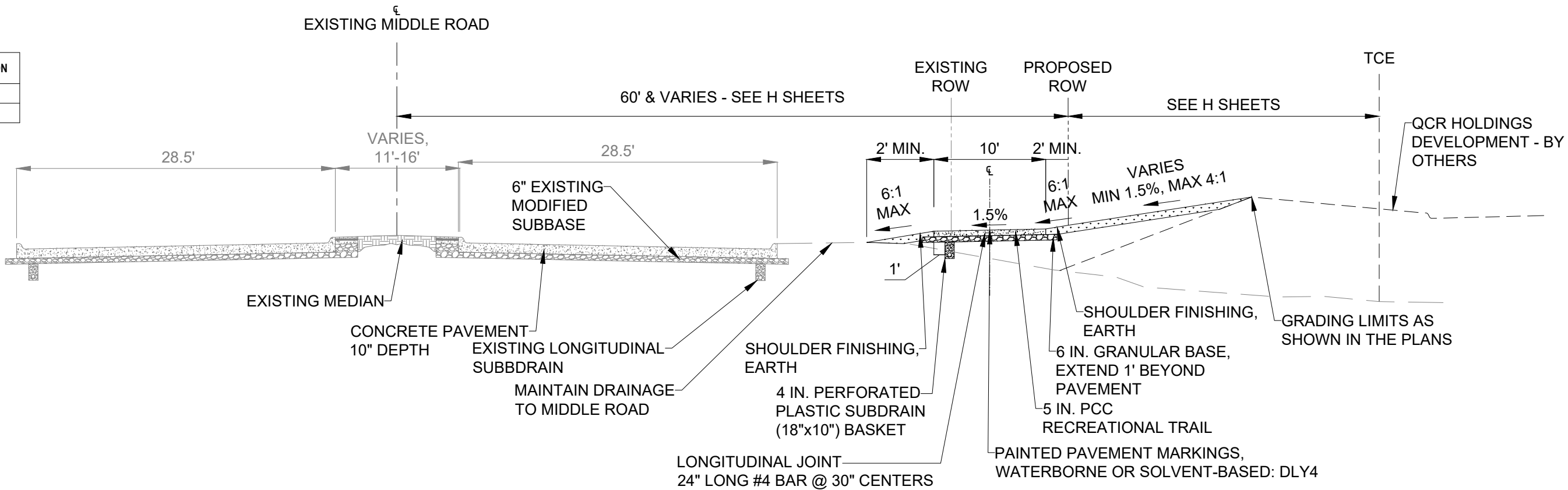
1. CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND MAINTENANCE OF ALL EXISTING AND CONSTRUCTED DRAINAGE CHANNELS AND DRAINAGE STRUCTURES. CONTRACTOR IS LIABLE FOR ALL DAMAGE TO PUBLIC OR PRIVATE PROPERTY CAUSED BY THEIR ACTION OR INACTION IN THE HANDLING OF STORM WATER FLOWS DURING CONSTRUCTION. EXTRA GRADING WORK NECESSARY TO MAINTAIN POSITIVE DRAINAGE WITHIN THE CONSTRUCTION LIMITS IS CONSIDERED INCIDENTAL TO CONSTRUCTION OR RELATED BID ITEMS.

STANDARD ROAD PLANS

THE FOLLOWING STANDARD ROAD PLANS APPLY TO CONSTRUCTION WORK ON THIS PROJECT. THIS DATA ENTRY SHEET FILLS TAB 105-4 EFFECTIVE 10-18-11		
NUMBER	DATE	TITLE
DR-101	04-18-17	PIPE CULVERT (BEDDING AND BACKFILL)
DR-102	04-21-15	PIPE CULVERT (COVER AND CAMBER)
DR-103	04-21-15	PIPE CULVERT (INSTALLATION DETAILS)
DR-104	04-19-16	DEPTH OF COVER TABLES FOR CONCRETE AND CORRUGATED PIPE
DR-121	04-18-23	CONNECTED PIPE JOINTS
DR-201	10-17-23	CONCRETE APRONS
DR-203	04-21-20	METAL PIPE APRONS AND BEVELED ENDS
DR-213	10-18-22	PIPE APRON GUARD
DR-303	10-17-17	SUBDRAINS (LONGITUDINAL)
DR-305	04-19-22	SUBDRAIN OUTLETS (STANDARD SUBDRAIN, PRESSURE RELEASE AND SPECIAL)
EC-201	04-20-21	SILT FENCE
EC-204	10-19-21	PERIMETER, SLOPE AND DITCH CHECK SEDIMENT CONTROL DEVICES
EC-301	10-18-22	ROCK EROSION CONTROL (REC)
PM-110	10-15-24	LINE TYPES
PV-101	01-01-26	JOINTS
SW-101	10-21-25	TRENCH BEDDING AND BACKFILL ZONES
SW-102	10-21-25	RIGID GRAVITY PIPE TRENCH BEDDING
SW-103	10-21-25	FLEXIBLE GRAVITY PIPE TRENCH BEDDING
SW-211	10-21-25	STORM SEWER PIPE CONNECTIONS
SW-401	10-21-25	CIRCULAR STORM SEWER MANHOLE
SW-512	10-21-25	CIRCULAR AREA INTAKE
SW-602	10-21-25	CASTINGS FOR STORM SEWER MANHOLES
SW-604	10-21-25	CASTINGS FOR AREA INTAKES
TC-202	04-18-23	WORK WITHIN 15 FT OF TRAVELED WAY
TC-252	10-21-25	ROUTES CLOSED TO TRAFFIC

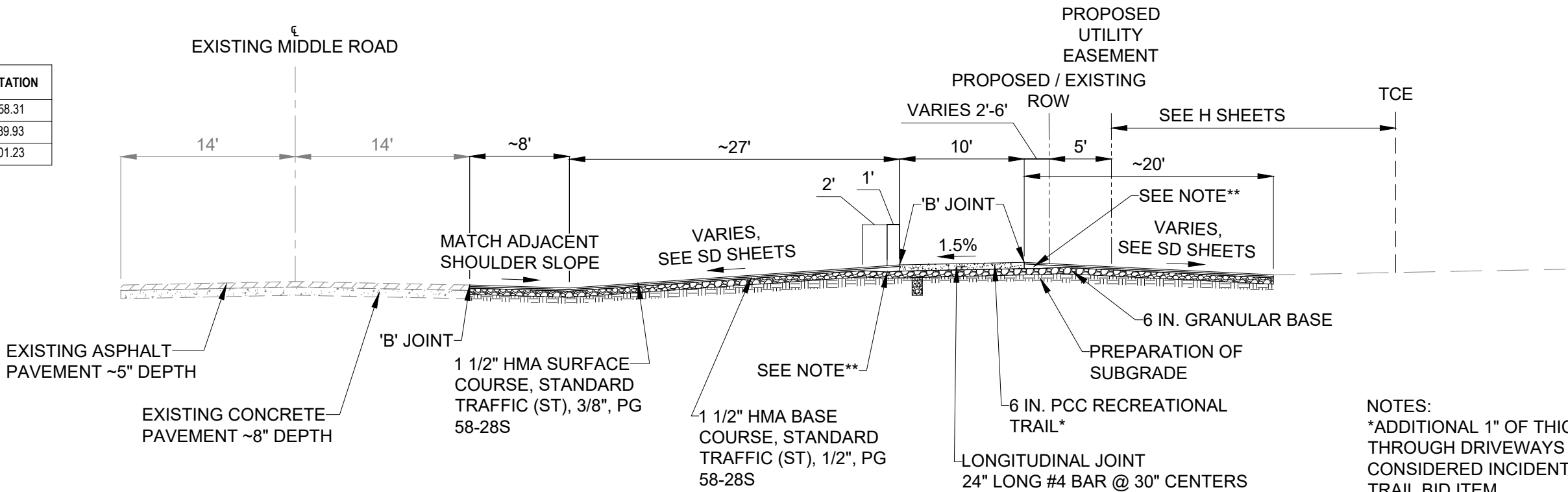
UTILITY COORDINATION DURING CONSTRUCTION									
COUNT	UTILITY	STATION	SIDE	UTILITY CONTACT			ADVANCED NOTIFICATION BY PRIME CONTRACTOR	TIME ALLOWABLE FOR FRANCHISE UTILITY BY PRIME CONTRACTOR DURING CONSTRUCTION	DESCRIPTION OF WORK TO BE COMPLETED BY FRANCHISED UTILITY
				NAME	EMAIL	PHONE			
1	CENTURY LINK	15+05 20+00 27+05 33+28	L	Antonio Glessner Pat Cairns Shane Giese	ctl-rdmv-ia@lumen.com antonio.glessner@centurylink.com pat.cairns@lumen.com shane.giese@centurylink.com	563-343-9498	CONTRACTOR SHALL GIVE THE PRIVATE UTILITY TWO WEEKS NOTICE PRIOR TO CONSTRUCTION ACTIVITIES BEGINNING IN THE VISCINITY OF THE PEDESTALS	RELOCATION OF THE 4 TELEPHONE PEDESTALS MAY TAKE UP TO TWO WEEKS TO COMPLETE	UTILITY WILL RELOCATE ABOVE GROUND TELEPHONE PEDESTALS
2	MIDAMERICAN ENERGY	28+70	L	Nick Benhart	gcgov@midamerican.com nicholas.benhart@midamerican.com	563-333-8718	CONTRACTOR SHALL GIVE THE PRIVATE UTILITY TWO WEEKS NOTICE PRIOR TO ANY CULVERT CONSTRUCTION ACTIVITY	IF ADJUSTMENT IS REQUIRED, ONE WEEKS WILL BE ALLOWED FOR THE ADJUSTMENT OF THE UTILITY AROUND THE 48" CULVERT	POTENTIAL UTILITY ADJUSTMENT AROUND 48" CULVERT MAY BE REQUIRED
3	CENTRAL SCOTT	28+70	L	Outside Plant Chris Garrison Tony Dahms	outsideplant@cstech.com cgarrison@centralbb.com tdahms@centralbb.com	563-345-8797 563-370-2747	CONTRACTOR SHALL GIVE THE PRIVATE UTILITY TWO WEEKS NOTICE PRIOR TO ANY CULVERT CONSTRUCTION ACTIVITY	IF ADJUSTMENT IS REQUIRED, ONE WEEKS WILL BE ALLOWED FOR THE ADJUSTMENT OF THE UTILITY AROUND THE 48" CULVERT	POTENTIAL UTILITY ADJUSTMENT AROUND 48" CULVERT MAY BE REQUIRED
4	UNITE PRIVATE NETWORK	28+70	L	Joe Kilzer	upngis@upnfiber.com	816-425-3556	CONTRACTOR SHALL GIVE THE PRIVATE UTILITY TWO WEEKS NOTICE PRIOR TO ANY CULVERT CONSTRUCTION ACTIVITY	IF ADJUSTMENT IS REQUIRED, ONE WEEKS WILL BE ALLOWED FOR THE ADJUSTMENT OF THE UTILITY AROUND THE 48" CULVERT	POTENTIAL UTILITY ADJUSTMENT AROUND 48" CULVERT MAY BE REQUIRED
5	MNA / BLUEBIRD	28+70	L	Jamie Scott	james.scott@bluebirdnetwork.com	314-270-8738	CONTRACTOR SHALL GIVE THE PRIVATE UTILITY TWO WEEKS NOTICE PRIOR TO ANY CULVERT CONSTRUCTION ACTIVITY	IF ADJUSTMENT IS REQUIRED, ONE WEEKS WILL BE ALLOWED FOR THE ADJUSTMENT OF THE UTILITY AROUND THE 48" CULVERT	POTENTIAL UTILITY ADJUSTMENT AROUND 48" CULVERT MAY BE REQUIRED

BEGIN STATION	END STATION
32+35	36+94.28



PROPOSED TYPICAL SECTION

BEGIN STATION	END STATION
18+48.31	18+58.31
19+79.93	19+89.93
24+91.23	25+01.23

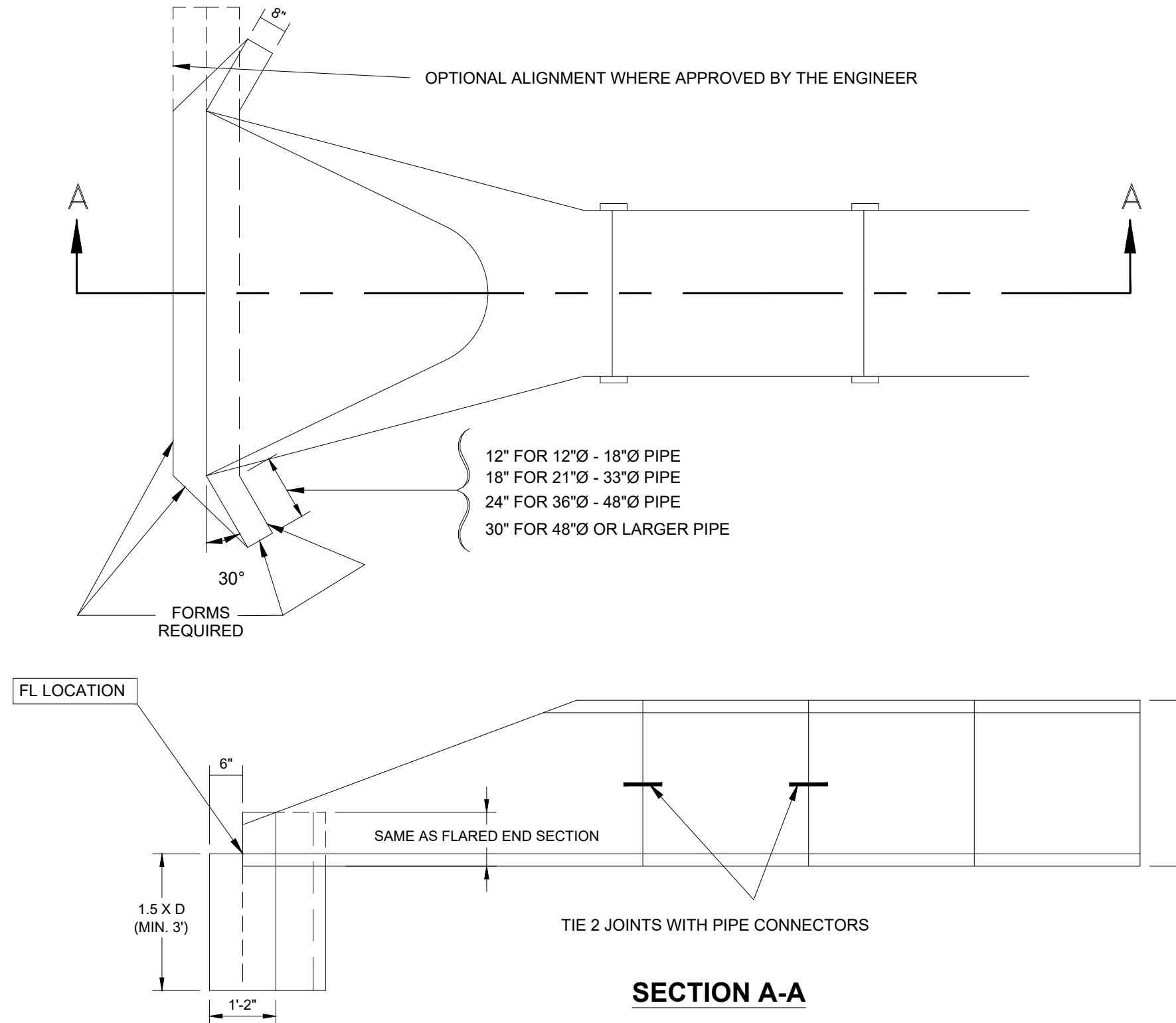


PROPOSED TRAIL SECTION - AT DRIVEWAYS

NOTES:
 *ADDITIONAL 1" OF THICKNESS THROUGH DRIVEWAYS SHALL BE CONSIDERED INCIDENTAL TO THE TRAIL BID ITEM.
 **CONSTRUCT DRIVEWAY AT 6" DEPTH FOR 1'. TRANSITION DEPTH TO 3" ACROSS 2'.

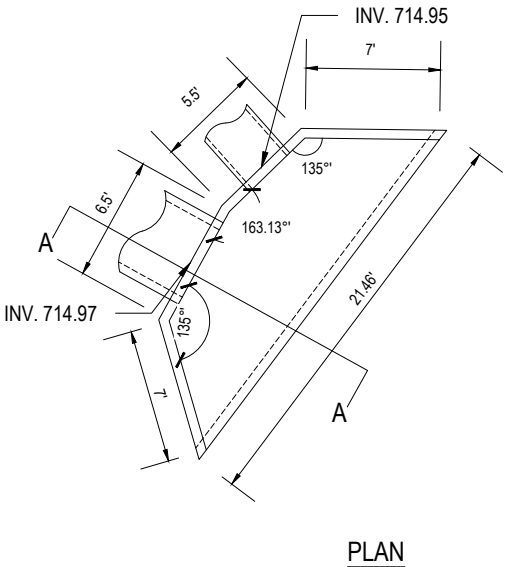
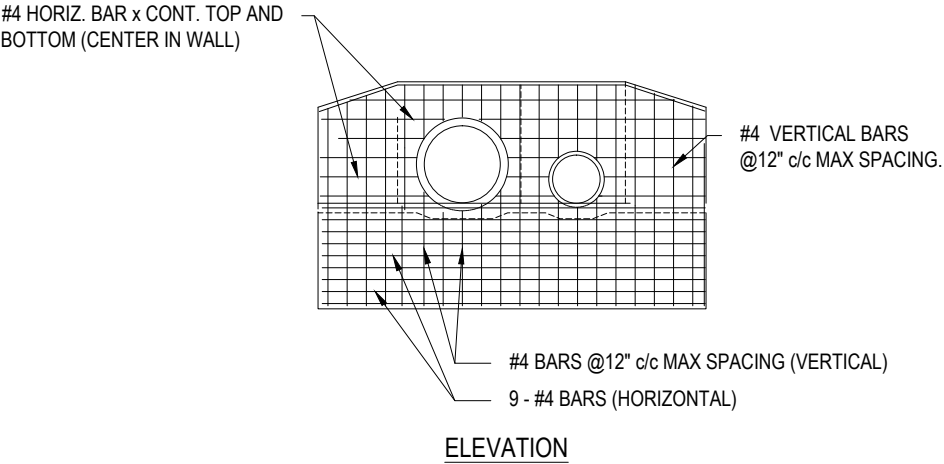
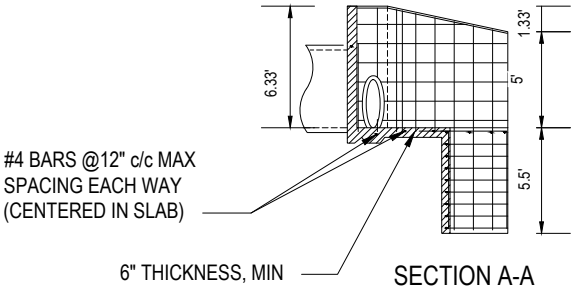
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CONCRETE APRON - FOOTING DETAIL

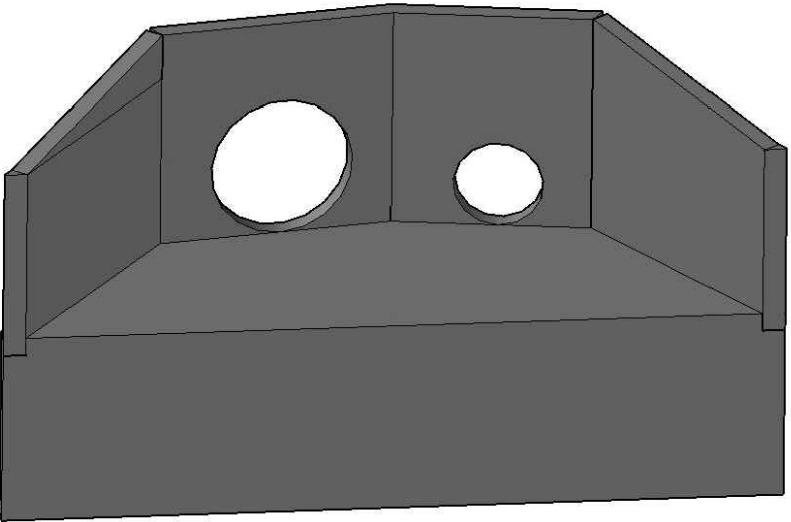


FORM ALL WALLS OF CURTAINWALL EXCEPT BOTTOM AND BACK FACE BELOW PIPE. CURTAINWALL REINFORCING SHALL CONSIST OF #3 BARS ON 12" CENTERS EACH DIRECTION. MINIMUM CLEARANCE BETWEEN REINFORCING AND CONCRETE SURFACES SHALL BE TWO (2) INCHES.

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- NOTES:
1. ALL REBAR MUST BE TIED.
 2. REBAR SHALL MAINTAIN 2" CLEAR FROM FACE OF CIP STRUCTURE.
 3. OUTSIDE FACE OF CURTAIN WALL MUST BE FORMED.
 4. VOLUME OF 6.7 CY IS ANTICIPATED.



ISOMETRIC

PCC PIPE APRON CAST-IN-PLACE HEADWALL

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100-1D 10-18-05	
PROJECT DESCRIPTION	
Middle Road Trail - This project involves the construction of a 10' wide trail on the eastern side of Middle Road, from Forest Grove Drive to Hopewell Avenue. This project includes right of way acquisition (by others), roadway and driveway culvert construction, driveway reconstruction, and grading work to accommodate the proposed trail.	

100-1A 07-15-97					
ESTIMATED PROJECT QUANTITIES (1 DIVISION PROJECT)					
Item No.	Item Code	Item	Unit	Total	As Built Qty.
1	2101-0850002	CLEARING AND GRUBBING	UNIT	68.5	
2	2102-0425070	SPECIAL BACKFILL	TON	47	
3	2102-2625001	EMBANKMENT-IN-PLACE, CONTRACTOR FURNISHED	CY	12200	
4	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW	CY	130	
5	2105-8425015	TOPSOIL, STRIP, SALVAGE AND SPREAD	CY	2630	
6	2107-0875000	COMPACTION WITH MOISTURE AND DENSITY CONTROL	CY	12330	
7	2111-8174100	GRANULAR SUBBASE	SY	3880	
8	2113-0001100	SUBGRADE STABILIZATION MATERIAL, POLYMER GRID	SY	90	
9	2121-7425010	GRANULAR SHOULDERS, TYPE A	TON	33.1	
10	2123-7450020	SHOULDER FINISHING, EARTH	STA	26.3	
11	2301-1033100	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 10 IN.	SY	90.1	
12	2303-1031500	HOT MIX ASPHALT STANDARD TRAFFIC, BASE COURSE, 1/2 IN. MIX	TON	18.4	
13	2303-1033380	HOT MIX ASPHALT STANDARD TRAFFIC, SURFACE COURSE, 3/8 IN. MIX, NO SPECIAL FRICTION REQUIREMENT	TON	19	
14	2303-1258283	ASPHALT BINDER, PG 58-28S, STANDARD TRAFFIC	TON	2.3	
15	2402-2720100	EXCAVATION, CLASS 20, FOR ROADWAY PIPE CULVERT	CY	218	
16	2416-0100048	APRONS, CONCRETE, 48 IN. DIA.	EACH	1	
17	2416-1240048	CULVERT, 3000D CONCRETE ROADWAY PIPE, 48 IN. DIA.	LF	187	
18	2417-0225012	APRONS, METAL, 12 IN. DIA.	EACH	1	
19	2417-0225015	APRONS, METAL, 15 IN. DIA.	EACH	2	
20	2417-1040015	CULVERT, CORRUGATED METAL ENTRANCE PIPE, 15 IN. DIA.	LF	24	
21	2435-0140160	MANHOLE, STORM SEWER, SW-401, 60 IN.	EACH	1	
22	2435-0251218	INTAKE, SW-512, 18 IN.	EACH	1	
23	2502-8212204	SUBDRAIN, PERFORATED PLASTIC PIPE, 4 IN. DIA.	LF	2604	
24	2502-8221303	SUBDRAIN OUTLET, DR-303	EACH	1	
25	2502-8221305	SUBDRAIN OUTLET, DR-305	EACH	8	
26	2503-0111012	STORM SEWER GRAVITY MAIN, TRENCHED, HIGH DENSITY POLYETHYLENE PIPE (HDPE), 12 IN.	LF	63	
27	2503-0114430	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 3000D (CLASS IV), 30 IN.	LF	71	
28	2503-0200036	REMOVE STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN.	LF	178	
29	2507-3250005	ENGINEERING FABRIC	SY	76.2	
30	2507-6800061	REVTMENT, CLASS E	TON	55	
31	2510-6745850	REMOVAL OF PAVEMENT	SY	90.1	
32	2510-6750600	REMOVAL OF INTAKES AND UTILITY ACCESSES	EACH	6	
33	2511-0302500	RECREATIONAL TRAIL, PORTLAND CEMENT CONCRETE, 5 IN.	SY	2922	
34	2526-8285040	CONSTRUCTION SURVEY, LOCATION SURVEY	LS	1	
35	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED	STA	6.21	
36	2528-2518000	SAFETY CLOSURE	EACH	2	
37	2528-8445110	TRAFFIC CONTROL	LS	1	
38	2528-9290050	PORTABLE DYNAMIC MESSAGE SIGN (PDMS)	CDAY	10	
39	2533-4980005	MOBILIZATION	LS	1	
40	2552-0000210	TRENCH FOUNDATION	TON	18.2	
41	2552-0000300	TRENCH COMPACTION TESTING	LS	1	
42	2599-9999003	PIPE APRON, PCC, CIP HEADWALL	CY	6.7	
43	2601-2636070	HYDRAULIC SEEDING	ACRE	2.5	
44	2602-0000020	SILT FENCE	LF	3546	
45	2602-0000030	SILT FENCE FOR DITCH CHECK	LF	2748	
46	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS	LF	6294	
47	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK	LF	629.4	
48	2602-0000309	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 9 IN. DIA.	LF	180	
49	2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE	LF	180	
50	2602-0010010	MOBILIZATIONS, EROSION CONTROL	EACH	3	

- GENERAL NOTES:
- THE CONTRACTOR WILL NOTE THE "RESTRICTED AREA--NO ACCESS" LOCATED ON SHEET D.2. THE CONTRACTOR SHALL FURNISH AND INSTALL ORANGE SAFETY FENCE ACCORDING TO ARTICLE 4188.03 OF THE STANDARD SPECIFICATIONS.
 - THE CONTRACTOR SHALL CONTACT JANE BECKER (515-233-7820) WITH THE LOCATION AND ENVIRONMENT BUREAU WITH QUESTIONS.

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ESTIMATE REFERENCE INFORMATION			100-4A 10-29-02
Item No.	Item Code	Description	
1	2101-0850002	CLEARING AND GRUBBING A. SHALL INCLUDE REMOVAL, DISPOSAL AND BACKFILL OF ALL DEBRIS AND ANY UNMEASUREABLE VEGETATION. B. EROSION CONTROL ELEMENTS SHALL BE CONSTRUCTED IMMEDIATELY FOLLOWING ANY GROUND CLEARING OPERATIONS. -	
2	2102-0425070	SPECIAL BACKFILL A. AN ESTIMATED QUANTITY HAS BEEN ASSIGNED TO THIS BID ITEM. B. ENGINEER SHALL APPROVE ALL LOCATIONS FOR USE PRIOR TO INSTALLATION. INSTALLATION SHALL BE PER MANUFACTURERS RECOMMENDATIONS. INTENDED FOR AREAS THAT REQUIRE OVER-EXCAVATION OF SUBGRADE. -	
3	2102-2625001	EMBANKMENT-IN-PLACE, CONTRACTOR FURNISHED A. THIS ITEM DOES NOT INCLUDE SHRINKAGE. -	
4	2102-2710070	EXCAVATION, CLASS 10, ROADWAY AND BORROW A. CUT - 130 CY, FILL - 12330 CY B. IF REQUIRED, CONTRACTOR TO DISPOSE OF UNSUITABLE MATERIAL OFF-SITE. NO PAYMENT WILL BE MADE FOR OVERHAUL. C. THIS ITEM DOES NOT INCLUDE EXCAVATION REQUIRED FOR COMPACTION OF SUBGRADE. D. NO EXPANSION FACTOR CALCULATED FOR EXCAVATED MATERIALS. -	
5	2105-8425015	TOPSOIL, STRIP, SALAVAGE AND SPREAD A. STRIPPING AND SALVAGING OF TOPSOIL IS ANTICIPATED TO BE AT A DEPTH OF 12 INCHES OR GREATER, CONTRACTOR SHALL NOTIFY ENGINEER IF AVAILABLE TOPSOIL DOES NOT EQUAL A DEPTH OF 4 INCHES. B. PLACEMENT OF THE SALVAGED TOPSOIL IS TO BE FOR PLACEMENT OF THE 8" TOPSOIL, THAT HAS BEEN CLEARED OF CLOD, ROOTS, STONES, AND OTHER UNDESIRABLE MATERIALS. -	
6	2107-0875000	COMPACTION WITH MOISTURE AND DENSITY CONTROL A. RCE WILL PROVIDE THE QUALITY CONTROL TESTING IN ACCORDANCE WITH IM 204. -	
7	2111-8174100	GRANULAR SUBBASE A. FOR USE BENEATH NEW PAVEMENT, PLACEMENT TO BE 1' OUTSIDE THE PAVEMENT LIMIT. B. ALL AGGREGATE SHALL BE QUARRY RUN GR 14 OR GR 12. C. THICKNESS TO BE 6" AS SHOWN ON THE PLANS. -	
8	2113-0001100	SUBGRADE STABILIZATION MATERIAL, POLYMER GRID A. FOR USE BENEATH MIDDLE ROAD PAVEMENT RECONSTRUCTION. B. ADDITIONAL QUANTITY MAY BE NEEDED BASED ON SUBGRADE CONDITIONS. ENGINEER SHALL APPROVE ALL LOCATIONS FOR USE PRIOR TO INSTALLATION. INSTALLATION SHALL BE PER MANUFACTURERS RECOMMENDATIONS. C. OVERLAP WILL NOT BE MEASURED FOR PAYMENT. -	
9	2121-7425010	GRANULAR SHOULDERS, TYPE A A. SHOULDERS SHALL BE 6 IN. IN THICKNESS. B. ASSUMED DENSITY OF 140 PCF. -	
10	2123-7425010	SHOULDER FINISHING, EARTH A. QUANTITY IS MEASURED IN STATIONS ALONG THE TRAIL LENGTH ONLY. THIS BID ITEM INCLUDES SHOULDER FINISHING ALONG BOTH SIDES OF THE PAVED TRAIL FOR THE FULL LENGTH MEASURED. -	
11	2301-1033100	STANDARD OR SLIP FORM PORTLAND CEMENT CONCRETE PAVEMENT, CLASS C, CLASS 3 DURABILITY, 10 IN. A. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED BY CONTRACTOR. B. ALL JOINTING AND REINFORCING REQUIRED SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. -	
12	2303-1031500	HOT MIX ASPHALT STANDARD TRAFFIC, BASE COURSE, 1/2 IN. MIX A. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED BY CONTRACTOR. B. ASSUMED DENSITY OF 155 PCF. -	
13	2303-1033300	HOT MIX ASPHALT STANDARD TRAFFIC, SURFACE COURSE, 3/8 IN. MIX, NO SPECIAL FRICTION REQUIREMENT A. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED BY CONTRACTOR. B. ASSUMED DENSITY OF 160 PCF. -	
14	2303-1258283	ASPHALT BINDER, PG 58-28S, STANDARD TRAFFIC A. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED BY CONTRACTOR. B. ASSUMED 155 PCF DENSITY OF BASE COURSE, AND 160 PCF FOR SURFACE COURSE. -	
15	2402-2720100	EXCAVATION, CLASS 20, FOR ROADWAY PIPE CULVERT A. EXCAVATION HAS BEEN ESTIMATED IN ACCORDANCE WITH SECTION 2402 OF THE STANDARD SPECIFICATIONS. B. NO EXPANSION FACTOR CALCULATED FOR EXCAVATED MATERIALS. -	
16	2416-0100048	APRONS, CONCRETE, 48 IN. DIA. A. APRON GUARD AND FOOTING SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM. SEE DR-213 & B SHEETS FOR MORE DETAILS. B. GRADE TO DRAIN, WHERE NOTED IN THE PLANS, SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. C. INCLUDES PROVIDING AND INSTALLING CULVERT TIES, LIFTING HOLE PLUGS, ENGINEERING FABRIC, JOINT MATERIAL, AND CONNECTED PIPE JOINTS PER DR-121. -	
17	2416-1240048	CULVERT, 3000D CONCRETE ROADWAY PIPE, 48 IN. DIA. A. BEDDING AND BACKFILL SHALL MEET THE REQUIREMENTS OF DR-101 & DR-102. -	
18	2417-0225012	APRONS, METAL, 12 IN. DIA.	
19	2417-0225015	APRONS, METAL, 15 IN. DIA. A. INSTALL GALVANIZED TOE PLATE, SEE DR-203 FOR DETAILS. THIS SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. B. GRADE TO DRAIN, WHERE NOTED IN THE PLANS, SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. -	
20	2417-1040015	CULVERT, CORRUGATED METAL ENTRANCE PIPE, 15 IN. DIA. A. BEDDING AND BACKFILL SHALL MEET THE REQUIREMENTS OF DR-101 & DR-103.	

ESTIMATE REFERENCE INFORMATION			100-4A 10-29-02
Item No.	Item Code	Description	
		-	
21	2435-0140160	MANHOLE, STORM SEWER, SW-401, 60 IN. -	
22	2435-0251218	INTAKE, SW-512, 18 IN. A. REFER TO SW-604. CASTING SHALL BE TYPE 3A. -	
23	2502-8212204	SUBDRAIN, PERFORATED PLASTIC PIPE, 4 IN. DIA. A. THE TRENCH SHALL HAVE ENGINEERING FABRIC PLACED, FABRIC SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. -	
24	2502-8221303	SUBDRAIN OUTLET, DR-303 A. CONNECT TO EXISTING INTAKE PER DR-303. ALL MATERIALS, EQUIPMENT, AND LABOR REQUIRED TO CONNECT AS SHOWN SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. -	
25	2502-8221305	SUBDRAIN OUTLET, DR-305 -	
26	2503-0110012	STORM SEWER GRAVITY MAIN, TRENCHED, HIGH DENSITY POLYETHYLENE PIPE (HDPE), 12 IN. A. BEDDING AND BACKFILL SHALL MEET THE REQUIREMENTS OF SW-101 & SW-103. -	
27	2503-0114430	STORM SEWER GRAVITY MAIN, TRENCHED, REINFORCED CONCRETE PIPE (RCP), 3000D (CLASS IV), 30 IN. A. BEDDING AND BACKFILL SHALL MEET THE REQUIREMENTS OF SW-101 & SW-102. -	
28	2503-0200036	REMOVE STORM SEWER PIPE LESS THAN OR EQUAL TO 36 IN. -	
29	2507-3250005	ENGINEERING FABRIC A. USE MATERIAL SPECIFIED FOR EMBANKMENT EROSION CONTROL ACCORDING TO ARTICLE 4196.01, B, 3. B. TO BE USED UNDER REVETMENT. -	
30	2507-6800061	REVETMENT, CLASS E A. REFER TO EC-301 FOR PLACEMENT DETAILS. DENSITY HAS BEEN ESTIMATED AT 105 PCF. B. SHALL MEET REQUIREMENTS OF ARTICLE 4130. BROKEN CONCRETE AND GRANITE IS NOT ALLOWED. -	
31	2510-6745850	REMOVAL OF PAVEMENT A. ALL SAWCUTTING SHALL BE CONSIDERED INCIDENTAL TO THIS ITEM. ESTIMATED LENGTHS OF SAWCUT SHOWN IN TABULATIONS. -	
32	2510-6750600	REMOVAL OF INTAKES AND UTILITY ACCESSES A. THIS ITEM IS INCLUDED FOR REMOVAL OF CONCRETE & METAL APRONS. SEE TABULATIONS FOR MORE DETAILS. -	
33	2511-0302500	RECREATIONAL TRAIL, PORTLAND CEMENT CONCRETE, 5 IN. A. CERTIFIED PLANT INSPECTION SHALL BE REQUIRED BY CONTRACTOR. B. TRAIL SHALL INCLUDE 24-INCH #4 EPOXY-COATED DEFORMED REINFORCEMENT PLACED 30 INCHES ON-CENTER ALONG THE CENTERLINE OF THE PATH, ALL BARS SHALL BE SET WITH WIRE AND ANCHOR PINS. ALL JOINTING AND REINFORCING REQUIRED SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM. C. ADDITIONAL 1" TRAIL THICKNESS THROUGH HMA DRIVEWAYS SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM. THERE IS APPROXIMATELY 48 SY OF 6" TRAIL THROUGH DRIVEWAYS. -	
34	2526-8285040	CONSTRUCTION SURVEY, LOCATION SURVEY A. CONTRACTOR WILL BE REQUIRED TO STAKE PROPERTY AND EASEMENT LIMITS. -	
35	2527-9263209	PAINTED PAVEMENT MARKINGS, WATERBORNE OR SOLVENT-BASED -	
36	2528-2518000	SAFETY CLOSURE A. CLOSURE TYPE SHALL BE "HAZARD CLOSURE" INSTALLED FOR MIDDLE ROAD PAVEMENT RECONSTRUCTION. -	
37	2528-8445110	TRAFFIC CONTROL A. CONTRACTOR SHALL DOCUMENT AND RESTORE TO ORIGINAL CONDITIONS ALL EXISTING CONDITIONS OF ROADWAY AND SITE ACCESS LOCATIONS PRIOR TO AND POST CONSTRUCTION ACTIVITIES. B. CONTRACTOR TO MAINTAIN ACCESS TO ALL PROPERTIES DURING CONSTRUCTION WITH THE USE OF TEMPORARY AGGREGATE. TEMPORARY AGGREGATE, MATERIAL, PLACEMENT, AND REMOVAL WILL BE INCIDENTAL TO THE TRAFFIC CONTROL BID ITEM. C. ORANGE SAFETY FENCE SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM. -	
38	2528-9290050	PORTABLE DYNAMIC MESSAGE SIGN (PDMS) A. BID ITEM INCLUDES 2 PDMS, ONE ON EACH END OF THE PROJECT LIMITS FOR 5 DAYS PRIOR TO THE MIDDLE ROAD CLOSURE. -	
39	2533-4980005	MOBILIZATION -	
40	2552-0000210	TRENCH FOUNDATION A. QUANTITY ASSUMES 15% OF SEWER CONSTRUCTION REQUIRES TRENCH FOUNDATION. B. QUANTITY ASSUMES 2 CF/LF OF 12 IN. SEWER, 2.25 CF/LF OF 15 IN. SEWER, 4.5 CF/LF OF 30 IN. SEWER, AND 8 CF/LF OF 48 IN. SEWER. C. ASSUMED TRENCH FOUNDATION DENSITY OF 127 PCF. D. ENGINEER SHALL APPROVE ALL LOCATIONS FOR USE PRIOR TO INSTALLATION. INSTALLATION SHALL BE PER MANUFACTURERS RECOMMENDATIONS. -	
41	2552-0000300	TRENCH COMPACTION TESTING -	
42	2599-9999003	PIPE APRON, PCC, CIP HEADWALL A. HEADWALL SHOWN IN B SHEETS ARE FOR REFERENCE. ALL DEVIATIONS PROPOSED BY CONTRACTOR SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. B. ALL REINFORCEMENT SHALL BE INSPECTED BY THE ENGINEER PRIOR TO PLACEMENT OF CONCRETE. C. MEASUREMENT: QUANTITY SHOWN IN THE CONTRACT DOCUMENTS. THE ENGINEER WILL COMPUTE IN CUBIC YARDS THE TOTAL VOLUME OF THE CIP STRUCTURE PLACED USING DIMENSIONS SHOWN IN THE CONTRACT DOCUMENTS, ALONG WITH THE CHANGES THAT HAVE BEEN MADE ACCORDING TO A WRITTEN ORDER FROM THE ENGINEER. ADDITIONAL CONCRETE REQUIRED TO BRING	

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100-4A
10-29-02

ESTIMATE REFERENCE INFORMATION

Item No.	Item Code	Description
		FLOORS, CURBS, AND HANDRAILS TO THE REQUIRED ELEVATION WILL NOT BE MEASURED FOR PAYMENT.
		D. PAYMENT: PAYMENT WILL BE AT THE CONTRACT UNIT PRICE PER CUBIC YARD.
		E. INCLUDES: UNIT PRICE INCLUDES, BUT IS NOT LIMITED TO, EXCAVATION, FURNISHING AND INSTALLING PIPE CONNECTIONS, FURNISHING, PLACING, AND COMPACTING BEDDING AND BACKFILL MATERIAL, BASE, STRUCTURAL CONCRETE, REINFORCING STEEL, PRECAST UNITS (IF USED), AND CONCRETE FILLETS. REINFORCING STEEL AND CONCRETE MATERIALS SHALL BE PER SECTIONS 2403 AND 2404, RESPECTIVELY, OF THE IOWA DOT STANDARD SPECIFICATIONS.
		-
43	2601-2636070	HYDRAULIC SEEDING
		A. SHALL BE INSTALLED DURING THE SPECIFIED PLANTING SEASON.
		B. CONTRACTOR IS RESPONSIBLE FOR SEEDING ALL DISTURBED AREAS, INCLUDING ANY CONTRACTOR STAGING AND LAYDOWN AREAS. THESE AREAS SHALL BE CONSIDERED INCIDENTAL TO THIS BID ITEM.
		C. QUANTITY INCLUDES ADDITIONAL 10% AS CONTINGENCY.
		-
44	2602-0000020	SILT FENCE
		A. ALL SILT FENCE SHALL BE INSTALLED AT THE LOCATIONS INDICATED WITHIN THE CONTRACT DOCUMENTS PRIOR TO ANY EARTH MOVING OPERATIONS.
		B. REFER TO TAB. 100-17. THE TABULATION INCLUDES ESTIMATED LOCATIONS FOR PLACEMENT OF SILT FENCE TO ADDRESS POSSIBLE EROSION DURING CONSTRUCTION. VERIFY THE SPECIFIC LOCATIONS WITH THE ENGINEER PRIOR TO BEGINNING PLACEMENT. BID ITEM INCLUDES TAB QUANTITY FOR THE PAVING PROJECT FOR NEW LOCATIONS AND 10% OF THE ORIGINAL TAB QUANTITY FOR THE GRADING PROJECT FOR FIELD ADJUSTMENTS AND REPLACEMENTS.
		-
45	2602-0000030	SILT FENCE FOR DITCH CHECKS
		A. REFER TO TAB. 100-18. THE TABULATION INCLUDES ESTIMATED LOCATIONS FOR PLACEMENT OF SILT FENCE FOR DITCH CHECK TO ADDRESS POSSIBLE EROSION DURING CONSTRUCTION. VERIFY THE SPECIFIC LOCATIONS WITH THE ENGINEER PRIOR TO BEGINNING PLACEMENT. BID ITEM INCLUDES TAB QUANTITY FOR THE PAVING PROJECT FOR NEW LOCATIONS AND 50% OF THE ORIGINAL TAB QUANTITY FOR THE GRADING PROJECT FOR FIELD ADJUSTMENTS AND REPLACEMENTS.
		-
46	2602-0000071	REMOVAL OF SILT FENCE OR SILT FENCE FOR DITCH CHECKS
		A. REMOVAL TIMEFRAME WILL BE DETERMINED BY THE ENGINEER AND CONTINGENT ON THE ESTABLISHMENT OF THE VEGETATION.
		B. THIS ITEM IS INCLUDED FOR SILT FENCE AND SILT FENCE FOR DITCH CHECK REMOVAL REQUIRED FOR STAGING REASONS, FOR REPLACEMENT (REPLACEMENT TO BE PAID SEPARATELY), OR FOR AREAS THAT HAVE ACHIEVED 70% PERMANENT GROWTH.
		-
47	2602-0000101	MAINTENANCE OF SILT FENCE OR SILT FENCE FOR DITCH CHECK
		A. MAINTENANCE OF THE SILT FENCE SHALL BE MAINTAINED UNTIL THE POINT IN TIME WHEN THE ENGINEER DEEMS VEGETATION HAS BEEN FULLY ESTABLISHED.
		B. THIS ITEM IS INCLUDED FOR MAINTAINING THE NEW SILT FENCE AND SILT FENCE DITCH CHECKS INSTALLED FOR THE PAVING PROJECT AND EXISTING SILT FENCE AND SILT FENCE FOR DITCH CHECKS INSTALLED AS PART OF THE GRADING PROJECT.
		-
48	2602-0000309	PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE, 9 IN. DIA.
		A. REFER TO TAB 100-19. INCLUDES ESTIMATED LOCATIONS TO ADDRESS EROSION ENCOUNTERED DURING CONSTRUCTION.
		-
49	2602-0000351	REMOVAL OF PERIMETER AND SLOPE OR DITCH CHECK SEDIMENT CONTROL DEVICE
		A. THIS ITEM IS INCLUDED FOR REMOVAL REQUIRED DUE TO STAGING, REPLACEMENT (REPLACEMENT TO BE PAID SEPARATELY), OR FOR AREAS THAT HAVE ACHIEVED 70% PERMANENT GROWTH.
		-
50	2602-0010010	MOBILIZATIONS, EROSION CONTROL
		-

ENGLISH

IOWA DOT

DESIGN TEAM HDR|ENGINEERING

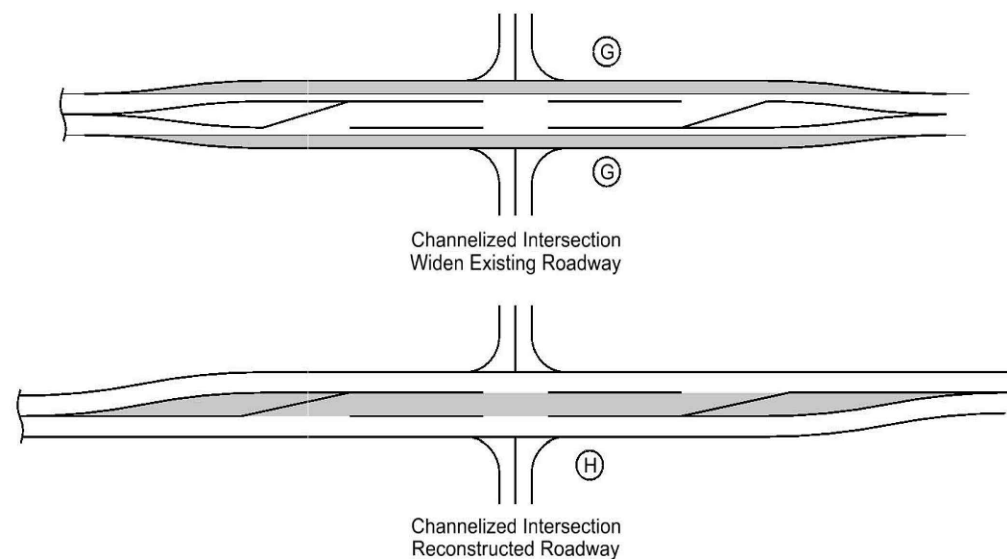
CITY OF BETTENDORF

SCOTT COUNTY

PROJECT NUMBER TAP-T-0587(646)--8V-82 | PW 0591| HDR 10375245

SHEET NUMBER C.3

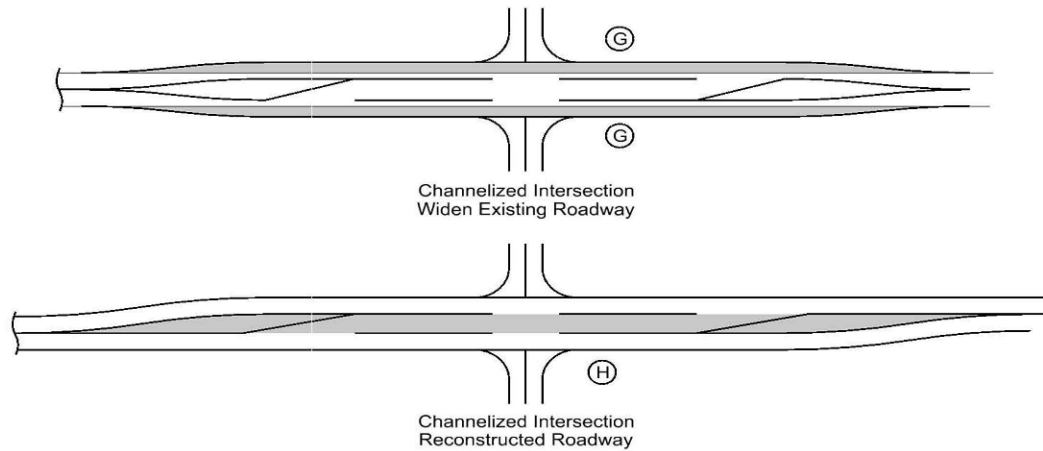
PLOTTED 13-Mar-26



- ① Does not include raised island area or curb. Refer to tabulation 112-4 for quantities.
- ② Refer to PV-410, PV-411, PV-412, and PV-414.
- ③ Quantity includes Pavement Header.

Calculations assume a surface course unit weight (lbs/cf) of 160, an intermediate course unit weight (lbs/cf) of 0, a base course unit weight (lbs/cf) of 155, and a special backfill unit weight (lbs/cf) of 140.

Calculations assume a surface course unit weight (lb/cf) of 120, an intermediate course unit weight (lb/cf) of 0, a base course unit weight (lb/cf) of 135, and a special backfill unit weight (lb/cf) of 140.																														
Location				Mainline			Area ③								Bid Items										Remarks					
Road Identification	Direction of Travel	Station to Station		Width	Length	Area	A ^①	B	C	D	E	F ^②	G	H	Hot Mix Asphalt Pavement						Binder			Special Backfill		Modified Subbase	Granular Subbase	Pavement Scarification		
															Surface		Intermediate		Base		Surface	Intermediate	Base							
															TONS	SY	TONS	SY	TONS	SY	TONS	TONS	TONS						SY	
Middle Road Trail	NB	18+48.31	18+58.31	10.0	68.0	71.1									6.399	71.1					6.199	71.1	0.384		0.372			91.0		
Middle Road Trail	NB	19+79.93	19+89.93	10.0	65.0	67.4									6.066	67.4					5.876	67.4	0.364		0.353			87.0		
Middle Road Trail	NB	24+91.23	25+01.23	10.0	63.0	72.4									6.516	72.4					6.312	72.4	0.391		0.379			92.0		
							TOTAL:								18.981	210.9					18.388	210.9	1.139	1.103			270.0			
				HMA DRIVEWAY TOTAL AREA:			210.9																							



- ① Does not include raised island area or curb. Refer to tabulation 112-4 for quantities.
- ② Refer to PV-410, PV-411, PV-412, and PV-414.
- ③ Quantity includes Pavement Header.

[illegible]

110-1
04-16-13

Refer to Tabulation 102-5

* Not a Bid Item

Begin Station	End Station	Side	Pavement Type	Area	Saw Cut*	Remarks
				SY	LF	
28+00.94	28+67.69	L	PCC / HMA	90.1	56.5	ASSUME 5 1/4" HMA OVERLAY ON 8 3/4" PCC CONCRETE

110-17
04-18-17

Location		Work and Material Type	Trees, Stumps, and Logs and Down Timber Material Diameters													All Other Materials		Estimated Quantities			Remarks
Station to Station or Ref. Loc. Sign to Ref. Loc. Sign or Description	Direction of Travel		3"-6"	>6"-9"	>9"-12"	>12"-15"	>15"-18"	>18"-24"	>24"-30"	>30"-36"	>36"-42"	>42"-48"	>48"-60"	>60"-72"	>72"	Length	Width	Units	Area	Herbicide Application	
																FT	FT	Units	Acres	Each	
STA 18+94.31 OFF 1.78' RT	NB	Trees - Clearing and Grubbing						1											29.0		
STA 19+24.88 OFF 2.61' RT	NB	Trees - Clearing and Grubbing					1												13.5		
STA 19+54.27 OFF 5.97' RT	NB	Trees - Clearing and Grubbing					1												22.0		
STA 24+50 TO STA 27+00	NB	Brush - Clearing														100.0	5.0	4.0			BRUSH / SHRUBS

* Not a bid item

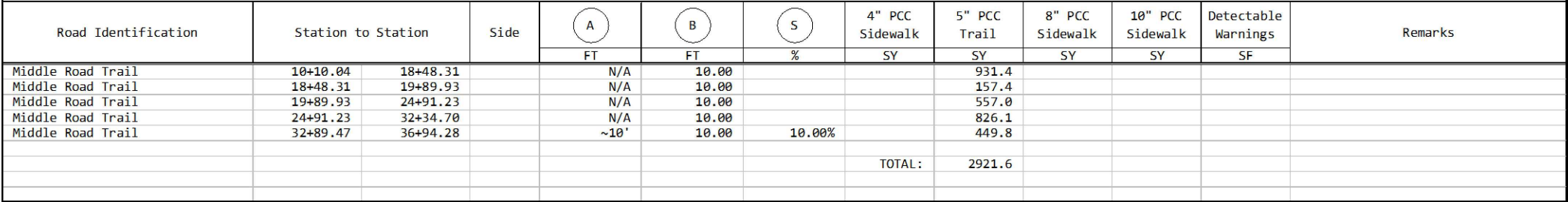
SANITARY OR STORM SEWER ABANDONMENT OR REMOVAL

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* Not a bid item
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REMOVAL OF INTAKES AND UTILITY ACCESSSES

SIDEWALKS

See MI-220 and S Sheets



[illegible][illegible]

Location			Perimeter and Slope			Ditch Check		Remarks
Begin Station	End Station	Side	Length of Installation			Length of Installation		
			9 inch Dia	12 inch Dia	20 inch Dia	12 inch Dia	20 inch Dia	
			LF	LF	LF	LF	LF	
10+63	10+63	LT	20					Cover existing FES
18+65	18+65	LT	10					Cover existing FES
19+95	19+95	LT	10					Cover existing FES
25+06	25+06	LT	10					Cover PR FES
27+95	27+95	LT	10					Cover PR intake structure
28+66	28+66	LT	20					Cover upstream side of PR 48" FES
28+25	28+25	RT	50					Cover downstream side of PR rock riprap
32+85	32+85	LT	10					Cover existing FES
33+85	33+85	LT	20					Cover existing curb intake
36+00	36+00	LT	20					Cover existing curb intake
	TOTAL :		180					

Location			Length	Remarks
Begin Station	End Station	Side		
			LF	
10+10	18+47	RT	840.3	
18+60	19+80	RT	136.0	
19+90	24+94	RT	524.0	
25+11	32+37	RT	780.3	
32+86	36+94	LT	405.8	
32+94	SEE PLANS	RT	537.2	
Subtotal:			3223.6	
10% Allowance:			322.4	
Silt Fence Bid Item Total:			3546.0	
Maintenance of Silt Fence (10%):			354.6	
Removal of Silt Fence (100%):			3546.0	

INDEX OF TABULATIONS

Tabulation Title



* Volume equation: $[0.5 \cdot \text{Spacing} \cdot (0.5 \cdot H^2 \cdot FS + DW \cdot H + 0.5 \cdot H^2 \cdot BS)]$

[illegible]

<div style="text-align: right;">111-25 10-18-11</div> <h2 style="text-align: center;">INDEX OF TABULATIONS</h2>		
Tabulation	Tabulation Title	Sheet No.
C Sheets		
100-1A	ESTIMATED PROJECT QUANTITIES (1 DIVISION PROJECT)	C.1
100-1D	PROJECT DESCRIPTION	C.1
100-4A	ESTIMATE REFERENCE INFORMATION	C.2 - C.3
100-17	TABULATION OF SILT FENCES	C.6
100-18	SILT FENCES FOR DITCH CHECKS	C.7
100-19	PERIMETER, SLOPE AND DITCH CHECK SEDIMENT CONTROL DEVICES	C.6
100-23	ROCK EROSION CONTROL	C.6
100-24	PCC PAVEMENT	C.4
100-25	HMA PAVEMENT	C.3
104-5C	LIST OF SUBDRAIN WORK	C.5
108-22	PAVEMENT MARKING LINE TYPES	C.6
110-1	REMOVAL OF PAVEMENT	C.4
110-12L	POLLUTION PREVENTION PLAN	C.9 - C.10
110-14	SANITARY OR STORM SEWER ABANDONMENT OR REMOVAL	C.5
110-15	REMOVAL OF INTAKES AND UTILITY ACCESSSES	C.5
110-17	CLEARING AND GRUBBING	C.4
113-1A	SIDEWALKS	C.5
104-5B	STORM SEWER	C.8

INTAKES AND UTILITY ACCESSES	PIPES
	Design Length, Slope, and Flowlines are calculated from inside wall to inside wall along CL of pipe. An additional 2 ft length is added to each side of the Design Length to account for estimated length to center of structures.

FILE NO.	ENGLISH	DESIGN TEAM HDR ENGINEERING	SCOTT COUNTY	PROJECT NUMBER TAP-T-0587(646)--8V-82	SHEET NUMBER C.9
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110-12L 10-20-20	
POLLUTION PREVENTION PLAN	
<p>This project is regulated by the requirements of the Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) General Permit No. 2 OR an Iowa Department of Natural Resources (DNR) National Pollutant Discharge Elimination System (NPDES) individual storm water permit. The Contractor shall carry out the terms and conditions of this permit and the Pollution Prevention Plan (PPP).</p> <p>This Base PPP includes information on Roles and Responsibilities, Project Site Description, Controls, Maintenance Procedures, Inspection Requirements, Non-Storm Water Controls, Potential Sources of Off Right-of-Way Pollution, and Definitions. This plan references other documents rather than repeating the information contained in the documents. A copy of this Base Pollution Prevention Plan, amended as needed during construction, will be readily available for review.</p> <p>All contractors shall conduct their operations in a manner that controls pollutants, minimizes erosion, and prevents sediments from entering waters of the state and leaving the highway right-of-way. The Contractor shall be responsible for compliance and implementation of the PPP for their entire contract. This responsibility shall be further shared with subcontractors whose work is a source of potential pollution as defined in this PPP.</p> <p>I. ROLES AND RESPONSIBILITIES</p> <p>A. Designer:</p> <ol style="list-style-type: none">1. Prepares Base PPP included in the project plan.2. Prepares Notice of Intent (NOI) submitted to Iowa DNR.3. Is signature authority on the Base PPP. If consultant designed, signature from Contracting Authority is also required. <p>B. Contractor:</p> <ol style="list-style-type: none">1. Signs a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP. All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.2. Designates a Water Pollution Control Manager (WPCM), who has the duties and responsibilities as defined in Section 2602 of the Standard Specifications.3. Submits an Erosion Control Implementation Plan (ECIP) and ECIP updates according to Section 2602 of the Standard Specifications.4. Installs and maintains appropriate controls. This work may be subcontracted as documented through Subcontractor Request Forms (Form 830231).5. Supervises and implements good housekeeping practices according to Paragraph III, C, 2.6. Conducts joint required inspections of the site with inspection staff. When Contractor is not mobilized on site, Contractor may delegate this responsibility to a trained or certified subcontractor. Contracting Authority also may waive joint inspection requirement during winter shutdown. In both circumstances, WPCM (or trained or certified delegate from the Contractor) is still responsible to review and sign inspection reports.7. Complies with training and certification requirements of Section 2602 of the Standard Specifications.8. Submits amended PPP site map according to Section 2602 of the Standard Specifications. <p>C. Subcontractors:</p> <ol style="list-style-type: none">1. Sign a co-permittee certification statement adhering to the requirements of the NPDES permit and this PPP if: responsible for sediment or erosion controls; involved in land disturbing activities; or performing work that is a source of potential pollution as defined in this PPP. Subcontracted work items are identified in Subcontractor Request Forms (Form 830231). All co-permittees are legally required under the Clean Water Act and the Iowa Administrative Code to ensure compliance with the terms and conditions of this PPP.2. Implement good housekeeping practices according to Paragraph III, C, 2. <p>D. RCE/Project Engineer:</p> <ol style="list-style-type: none">1. Is Project Storm Water Manager.2. Takes actions necessary to ensure compliance with storm water requirements including, where appropriate, issuing stop work orders, and directing additional inspections at construction project sites that are experiencing problems with achieving permit compliance.3. Orders the taking of measures to cease, correct, prevent, or minimize the consequences of non-compliance with the storm water requirements of the Applicable Permit.4. Supervises all work necessary to meet storm water requirements at the Project, including work performed by contractors and subcontractors.5. Requires employees, contractors, and subcontractors to take appropriate responsive action to comply with storm water requirements, including requiring any such person to cease or correct a violation of storm water requirements, and to order or recommend such other actions as necessary to meet storm water requirements.6. Is familiar with the Project PPP and storm water site map.7. Is the point of contact for the Project for regulatory officials, Inspector, contractors, and subcontractors regarding storm water requirements.8. Is signature authority on Notice of Discontinuation.9. Maintains an up-to-date record of contractors, subcontractors, and subcontracted work items through Subcontractor Request Forms (Form 830231).10. Makes information to determine permit compliance available to the DNR upon their request. <p>E. Inspector:</p> <ol style="list-style-type: none">1. Updates PPP through fieldbook entries and storm water site inspection reports if there is a change in design, construction, operation, or maintenance which has a significant effect on the discharge of pollutants from the project.2. Makes information to determine permit compliance available to the DNR upon their request.3. Conducts joint required inspections of the site with the contractor/subcontractor.4. Completes an inspection report after each inspection.5. Is signature authority on storm water inspection reports. <p>II. PROJECT SITE DESCRIPTION</p> <p>A. This Pollution Prevention Plan (PPP) is for the construction of Middle Road Trail, a 10' wide PCC Trail.</p> <p>B. This PPP covers approximately 3.9 acres with an estimated 2.7 acres being disturbed. The portion of the PPP covered by this contract has 2.7 acres disturbed.</p> <p>C. The PPP is located in an area of 1 soil association Fayette. The estimated weighted average runoff coefficient number for this PPP after completion will be 0.32.</p> <p>D. Storm Water Site Map - Multiple sources of information comprise the base storm water site map including:</p> <ol style="list-style-type: none">1. Drainage Patterns - Plan and Profile sheets and Situation plans.2. Proposed Slopes - Cross Sections.3. Areas of Soil Disturbance - Construction limits shown on Plan and Profile sheets.4. Location of Structural Controls - Tabulations in C sheets.5. Locations of Non-Structural Controls - Tabulations in C sheets.6. Locations of Stabilization Practices - Generally within construction limits shown on Plan and Profile sheets.7. Surface Waters (including wetlands) - Project Location Map and Plan and Profile sheets.8. Locations where Storm Water is Discharged - Plan and Profile sheets. <p>E. The base storm water site map is amended by contract modifications and progress payments (fieldbook entries) of completed erosion</p>	

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POLLUTION PREVENTION PLAN	
<p>control work. Also, due to project phasing, erosion and sediment controls shown on project plans may not be installed until needed, based on site conditions. For example, silt fence ditch checks will typically not be installed until the ditch has been installed. Installed locations may also be modified from tabulation locations by field staff. Installed locations will be documented by fieldbook entries and amended PPP site map.</p> <p>F. Runoff from this work will flow into:</p> <ol style="list-style-type: none">1. Pigeon Creek2. Spencer Creek3. Mississippi River <p>III. CONTROLS</p> <p>A. The Contractor's ECIP specified in Article 2602.03 of the Standard Specifications for accomplishment of storm water controls should clearly describe the intended sequence of major activities, and for each activity define the control measure and the timing during the construction process that the measure will be implemented.</p> <p>B. Preserve vegetation in areas not needed for construction.</p> <p>C. Sections 2601 and 2602 of the Standard Specifications define requirements to implement erosion and sediment control measures. Actual quantities used and installed locations may vary from the Base PPP and amendment of the plan will be documented via fieldbook entries, amended PPP site map, or by contract modification. Additional erosion and sediment control items may be required as determined by the inspector and/or contractor during storm water site inspections. If the work involved is not applicable to any contract items, the work will be paid for according to Article 1109.03 paragraph B of the Standard Specifications.</p> <p>1. EROSION AND SEDIMENT CONTROLS</p> <p>a. Stabilization Practices</p> <ol style="list-style-type: none">1) Site plans will ensure that existing vegetation or natural buffers are preserved where attainable and disturbed portions of the site will be stabilized.2) Initialize stabilization of disturbed areas immediately after clearing, grading, excavating, or other earth disturbing activities have:<ol style="list-style-type: none">a) Permanently ceased on any portion of the site, orb) Temporarily ceased on any portion of the site and will not resume for a period exceeding 14 calendar days.3) Staged permanent and/or temporary stabilizing seeding and mulching shall be completed as the disturbed areas are completed. Incomplete areas shall be stabilized according to paragraph III, C, 1, a, 2, b above.4) Permanent and Temporary Stabilization practices to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation (105-4) in the C sheets.5) Preservation of existing vegetation within right-of-way or easements will act as vegetative buffer strips.6) Preservation of topsoil: Bid items to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets. Additional information may be found in Tabulations in the C or T sheets or is referenced in Section 2105 of Standard Specifications. <p>b. Structural Practices</p> <ol style="list-style-type: none">1) Structural practices will be implemented to divert flows from exposed soils and detain or otherwise limit runoff and the discharge of pollutants from exposed areas of the site. Additionally, structural practices may include: silt basins that provide 3600 cubic feet of storage per acre drained or equivalent sediment controls, outlet structures that withdraw water from surface when discharging basins, and controls to direct storm water to vegetated areas.2) Structural practices to be used for this project are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the devices to be used on this project can be found in the B sheets or are referenced in the Standard Road Plans Tabulation (105-4) located in the C sheets. <p>c. Storm Water Management</p> <p>Measures shall be installed during the construction process to control pollutants in storm water discharges that will occur after construction operations have been completed. This may include velocity dissipation devices at discharge locations and along length of outfall channel as necessary to provide a non-erosion velocity flow from structure to water course. If included with this project, these items are located in the Estimated Project Quantities (100-0A, 100-1A, or 100-1C) and Estimate Reference Information (100-4A) located in the C sheets, as well as all other item specific Tabulations. Typical drawings detailing construction of the practices to be used on this project are referenced in the Standard Road Plans Tabulation (105-4) in the C sheets. The installation of these devices may be subject to Section 404 of the Clean Water Act.</p> <p>2. OTHER CONTROLS</p> <p>Contractor disposal of unused construction materials and construction material wastes shall comply with applicable state and local waste disposal, sanitary sewer, or septic system regulations. In the event of a conflict with other governmental laws, rules and regulations, the more restrictive applicable laws, rules or regulations shall apply.</p> <p>a. Vehicle Entrances and Exits - Construct and maintain entrances and exits to prevent tracking of sediments onto roadways.</p> <p>b. Material Delivery, Storage and Use - Implement practices to prevent discharge of construction materials during delivery, storage, and use.</p> <p>c. Stockpile Management - Install controls to reduce or eliminate pollution of storm water from stockpiles of soil and paving.</p> <p>d. Waste Disposal - Do not discharge any materials, including building materials, into waters of the state, except as authorized by a Section 404 permit.</p> <p>e. Spill Prevention and Control - Implement chemical spill and leak prevention and response procedures to contain and clean up spills and prevent material discharges to the storm drain system and waters of the state.</p> <p>f. Concrete Residuals and Washout Wastes - Waste shall not be discharged to a surface water and is not allowed to adversely affect a water of the state. Designate temporary concrete washout facilities for rinsing out concrete trucks. Provide directions to truck drivers where designated washout facilities are located. Designated washout areas should be located at least 50 feet away from storm drains, streams or other water bodies. Care should be taken to ensure these facilities do not overflow during storm events.</p> <p>g. Concrete Grooving/Grinding Slurry - Do not discharge slurry to a waterbody or storm drain. Slurry may be applied on foreslopes or removed from the project.</p> <p>h. Vehicle and Equipment Storage and Maintenance Areas - Perform on site fueling and maintenance in accordance with all environment laws such as proper storage of onsite fuels and proper disposal of used engine oil or other fluids on site. Employ washing practices that prevent contamination of surface and ground water from wash water. Wash waters must be treated in a sediment basin or alternative control that provides equivalent or better treatment prior to discharge.</p> <p>i. Litter Management - Ensure employees properly dispose of litter. Minimize exposure of trash if exposure to precipitation or storm water would result in a discharge of pollutants.</p> <p>j. Dewatering - Properly treat water to remove suspended sediment before it re-enters a waterbody or discharges off-site. Measures are also to be taken to prevent scour erosion at dewatering discharge point.</p> <p>3. APPROVED STATE OR LOCAL PLANS</p> <p>During the course of this construction, it is possible that situations will arise where unknown materials will be encountered. When such situations are encountered, they will be handled according to all federal, state, and local regulations in effect at the time.</p>	

The Contractor is required to maintain all temporary erosion and sediment control measures in proper working order, including cleaning, repairing, or replacing them throughout the contract period. This shall begin when the features have lost 50% of their capacity.

A. Inspections shall be made jointly by the Contractor and the Contracting Authority's inspector at least once every seven calendar days. Storm water site inspections will include:

1. Date of the inspection.
2. Summary of the scope of the inspection.
3. Name and qualifications of the personnel making the inspection.
4. Review of erosion and sediment control measures within disturbed areas for the effectiveness in preventing impacts to receiving waters.
5. Review of erosion and sediment control measures within disturbed areas for the effectiveness in preventing impacts to receiving waters.

6. Major observations related to the implementation of the PPP.
7. Identification of corrective actions required to maintain or modify erosion and sediment control measures.
- B. Include storm water site inspection reports in the amended PPP. Incorporate any additional erosion and sediment control measures determined as a result of the inspection. Immediately begin corrective actions on all deficiencies found within 3 calendar days of the inspection and complete within 7 calendar days following the inspection. If it is determined that making the corrections less than 72 hours after the inspection is impracticable, it should be documented why it is impracticable and indicate an estimated date by which the corrections will be made.

This includes subsurface drains (i.e. longitudinal and standard subdrains) and slope drains. The velocity of the discharge from these features may be controlled by the use of headwalls or blocks, Class A stone, erosion stone or other appropriate materials. This also includes uncontaminated groundwater from dewatering operations, which will be controlled as discussed in Section III of the PPP.

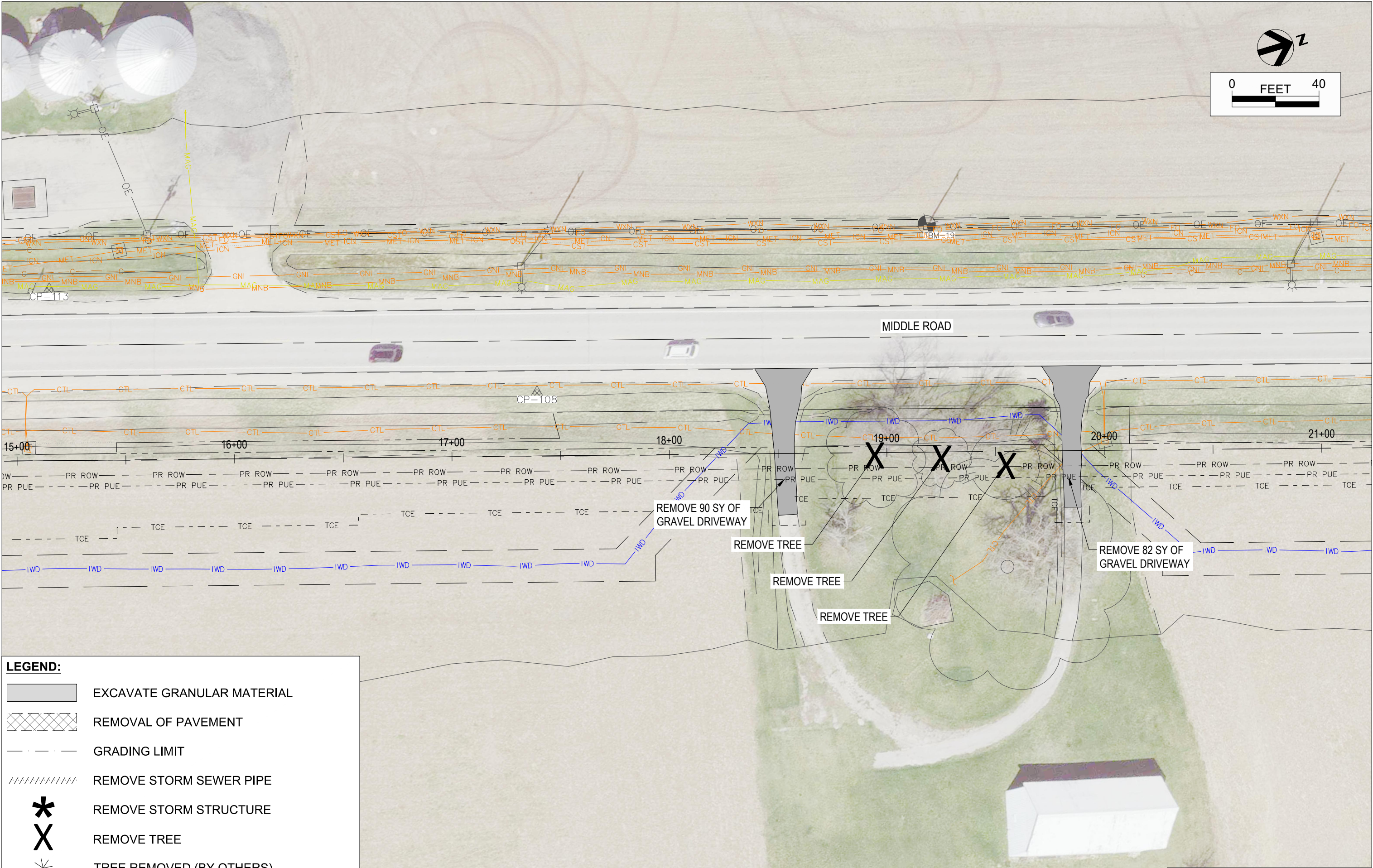
Silts, sediment, and other forms of pollution may be transported onto highway right-of-way (ROW) as a result of a storm event. Potential sources of pollution located outside highway ROW are beyond the control of this PPP. Pollution within highway ROW will be conveyed and controlled per this PPP.

- A. Base PPP - Initial Pollution Prevention Plan.
- B. Amended PPP - Base PPP amended during construction. May include Plan Revisions or Contract Modifications for new items, storm water site inspection reports, fieldbook entries made by the inspector, amended PPP site map by the Contractor, ECIP, NOI, co-permittee certifications, and Subcontractor Request Forms. Items amending the PPP are stored electronically and are readily available upon request.
- C. Fieldbook Entries - This contains the inspector's daily diary and bid item postings.
- D. Controls - Methods, practices, or measures to minimize or prevent erosion, control sedimentation, control storm water, or minimize contaminants from other types of waste or materials. Also called Best Management Practices (BMPs).
- E. Signature Authority - Representative authorized to sign various storm water documents.


I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gathered and evaluated the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Morgan Mays, P.E.
Printed or Typed Name


Brent Morlok, P.E.
Printed or Typed Name




LEGEND:



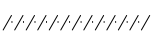
EXCAVATE GRANULAR MATERIAL




REMOVAL OF PAVEMENT




GRADING LIMIT




REMOVE STORM SEWER PIPE



REMOVE STORM STRUCTURE



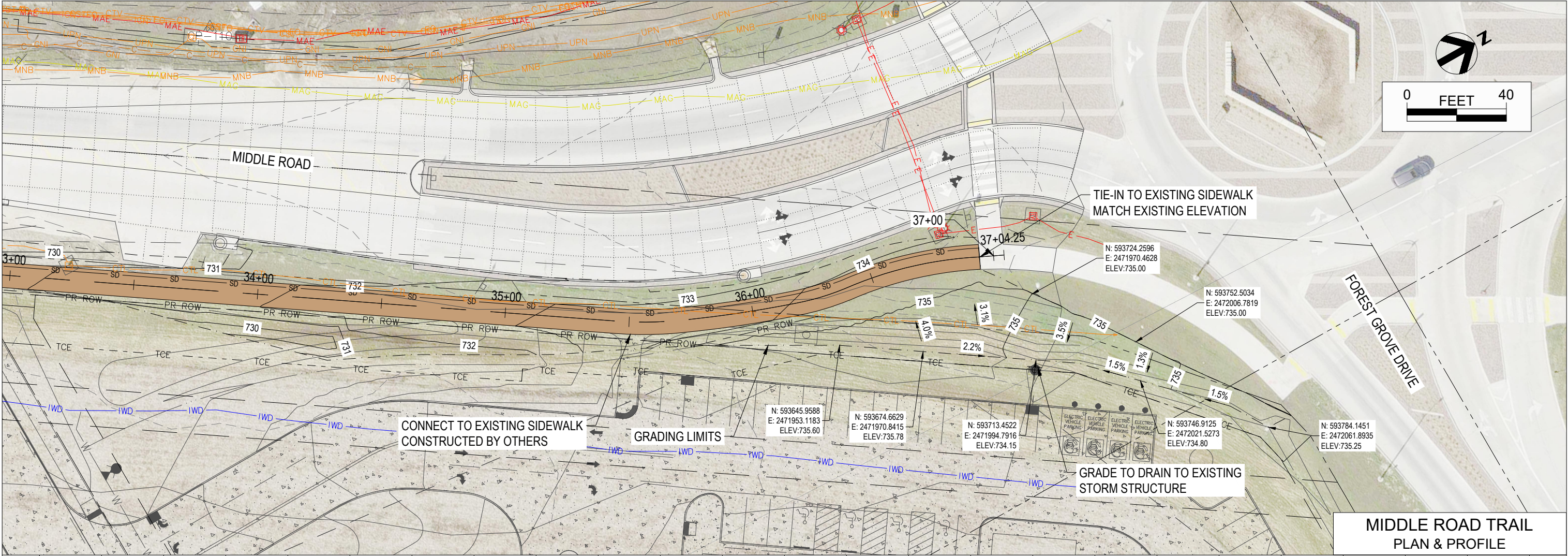
REMOVE TREE



TREE REMOVED (BY OTHERS)

REMOVALS

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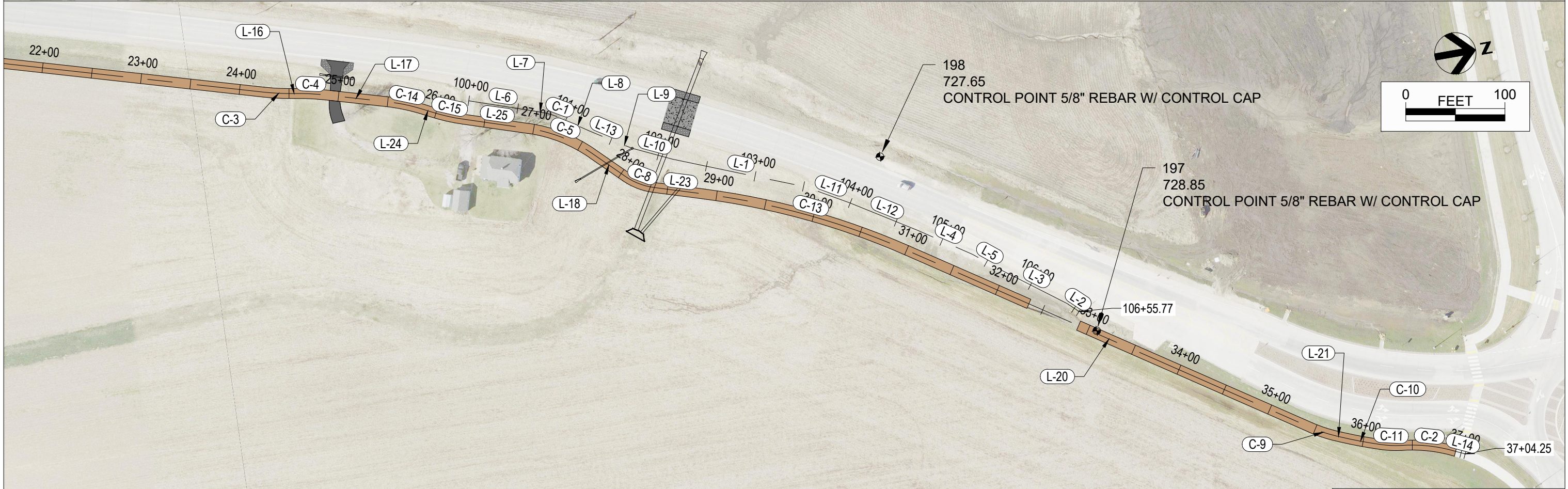
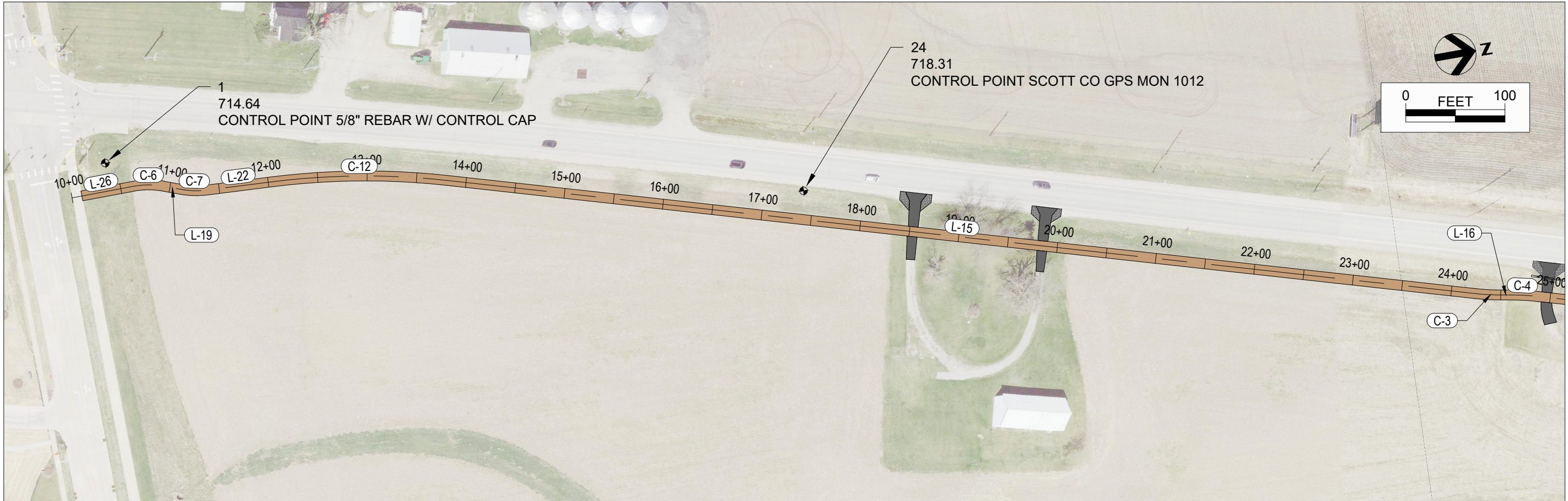
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MRT_SUP-1_CL Alignment Coordinates & Circular Curve Data																				
Name	Begin Line Station	Begin Line Y (Northing)	Begin Line X (Easting)	End Line Station	End Line Y (Northing)	End Line X (Easting)	Begin Curve Station (PC)	Begin Curve Y (Northing)	Begin Curve X (Easting)	Curve PI Station	Curve PI Y (Northing)	Curve PI X (Easting)	End Curve Station (PT)	End Curve Y (Northing)	End Curve X (Easting)	ΔC	T	L	R	E
L-26	10+00	591,183.78	2,471,128.49	10+62.82	591,246.53	2,471,125.59														
C-6							10+62.82	591,246.534	2,471,125.59	10+78.30	591,262.00	2,471,124.91	10+93.45	591,276.71	2,471,129.72	20°38'39"	15.48	30.63	85.00	1.40
L-19	10+93.45	591,276.71	2,471,129.72	11+11.84	591,294.19	2,471,135.44														
C-7							11+11.84	591,294.189	2,471,135.44	11+24.77	591,306.48	2,471,139.46	11+37.51	591,319.42	2,471,139.64	17°18'23"	12.94	25.67	85.00	0.98
L-22	11+37.51	591,319.42	2,471,139.64	12+03.78	591,385.68	2,471,140.57														
C-12							12+03.78	591,385.678	2,471,140.57	12+92.63	591,474.52	2,471,141.82	13+80.66	591,560.62	2,471,163.74	13°28'36"	88.85	176.88	752.00	5.23
L-15	13+80.66	591,560.62	2,471,163.74	24+24.17	592,571.89	2,471,421.16														
C-3							24+24.17	592,571.889	2,471,421.16	24+39.61	592,586.85	2,471,424.97	24+55.01	592,602.17	2,471,426.87	7°12'42"	15.44	30.84	245.00	0.49
L-16	24+55.01	592,602.17	2,471,426.87	24+55.37	592,602.53	2,471,426.91														
C-4							24+55.37	592,602.525	2,471,426.91	24+71.43	592,618.47	2,471,428.89	24+87.46	592,634.04	2,471,432.86	7°12'42"	16.07	32.10	255.00	0.51
L-17	24+87.46	592,634.04	2,471,432.86	25+48.37	592,693.08	2,471,447.88														
C-14							25+48.37	592,693.075	2,471,447.88	25+67.80	592,711.90	2,471,452.68	25+87.11	592,729.46	2,471,461.00	11°05'51"	19.43	38.74	200.00	0.94
L-24	25+87.11	592,729.46	2,471,461.00	25+96.07	592,737.55	2,471,464.84														
C-15							25+96.07	592,737.553	2,471,464.84	26+12.23	592,752.15	2,471,471.77	26+28.32	592,767.67	2,471,476.26	9°14'18"	16.16	32.25	200.00	0.65
L-25	26+28.32	592,767.67	2,471,476.26	26+94.89	592,831.62	2,471,494.77														
C-5							26+94.89	592,831.617	2,471,494.77	27+30.29	592,865.63	2,471,504.61	27+64.43	592,891.65	2,471,528.63	26°33'52"	35.41	69.55	150.00	4.12
L-18	27+64.43	592,891.65	2,471,528.63	28+05.28	592,921.67	2,471,556.33														
C-8							28+05.28	592,921.667	2,471,556.33	28+21.03	592,933.25	2,471,567.02	28+36.19	592,948.43	2,471,571.22	27°15'12"	15.76	30.92	65.00	1.88
L-23	28+36.19	592,948.43	2,471,571.22	28+88.17	592,998.53	2,471,585.06														
C-13							28+88.17	592,998.532	2,471,585.06	29+95.33	593,101.81	2,471,613.61	31+01.04	593,192.99	2,471,669.91	16°14'26"	107.15	212.87	751.00	7.61
L-20	31+01.04	593,192.99	2,471,669.91	35+44.81	593,570.58	2,471,903.05														
C-9							35+44.81	593,570.581	2,471,903.05	35+58.66	593,582.37	2,471,910.33	35+72.44	593,595.28	2,471,915.32	10°33'02"	13.85	27.62	150.00	0.64
L-21	35+72.44	593,595.28	2,471,915.32	35+76.89	593,599.44	2,471,916.93														
C-10							35+76.89	593,599.437	2,471,916.93	35+97.40	593,618.57	2,471,924.33	36+17.89	593,638.28	2,471,930.01	5°03'29"	20.52	41.00	464.50	0.45
C-11							36+17.89	593,638.285	2,471,930.01	36+28.08	593,648.05	2,471,932.92	36+38.20	593,658.19	2,471,933.83	11°27'43"	10.19	20.30	101.50	0.51
C-2							36+38.20	593,658.193	2,471,933.83	36+66.55	593,686.48	2,471,935.68	36+94.28	593,712.28	2,471,947.43	20°43'46"	28.35	56.08	155.00	2.57
L-14	36+94.28	593,712.28	2,471,947.43	37+04.25	593,721.46	2,471,951.32														

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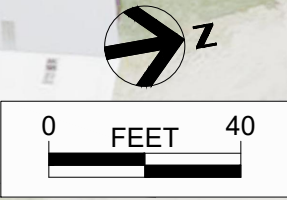
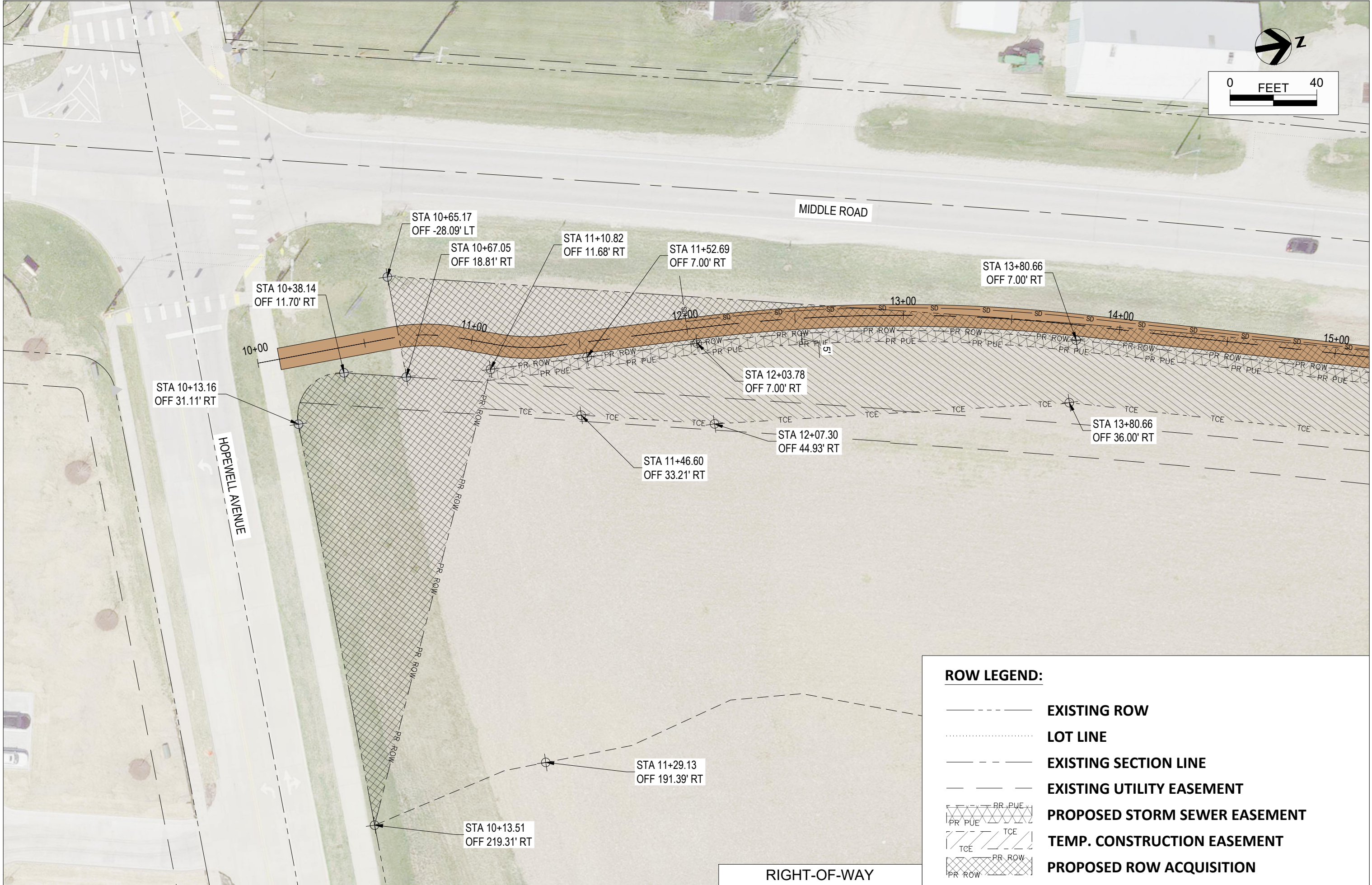
MRT_DITCH 1 Alignment Coordinates & Circular Curve Data																					
Name	Begin Line Station	Begin Line Y (Northing)	Begin Line X (Easting)	End Line Station	End Line Y (Northing)	End Line X (Easting)	Begin Curve Station (PC)	Begin Curve Y (Northing)	Begin Curve X (Easting)	Curve PI Station	Curve PI Y (Northing)	Curve PI X (Easting)	End Curve Station (PT)	End Curve Y (Northing)	End Curve X (Easting)	ΔC	T	L	R	E	
L-6	100+00	592,775.75	2,471,458.68	100+67.23	592,840.07	2,471,478.26															
L-7	100+67.23	592,840.07	2,471,478.26	100+78.73	592,851.03	2,471,481.72															
C-1							100+78.73	592,851.033	2,471,481.72	100+89.94	592,861.43	2,471,485.91	101+01.05	592,870.57	2,471,492.40	13°29'12"	11.21	22.31	94.80	0.66	
L-8	101+01.05	592,870.57	2,471,492.40	101+25.93	592,891.70	2,471,505.53															
L-13	101+25.93	592,891.70	2,471,505.53	101+55.87	592,917.46	2,471,520.81															
L-9	101+55.87	592,917.46	2,471,520.81	101+72.99	592,932.42	2,471,529.13															
L-10	101+72.99	592,932.42	2,471,529.13	102+14.85	592,970.93	2,471,545.52															
L-1	102+14.85	592,970.93	2,471,545.52	103+52.07	593,100.06	2,471,591.96															
L-11	103+52.07	593,100.06	2,471,591.96	103+99.70	593,142.15	2,471,614.25															
L-12	103+99.70	593,142.15	2,471,614.25	104+73.44	593,205.98	2,471,651.17															
L-4	104+73.44	593,205.98	2,471,651.17	105+33.52	593,257.17	2,471,682.62															
L-5	105+33.52	593,257.17	2,471,682.62	105+63.39	593,281.04	2,471,700.58															
L-3	105+63.39	593,281.04	2,471,700.58	106+41.04	593,344.69	2,471,745.06															
L-2	106+41.04	593,344.69	2,471,745.06	106+55.77	593,355.76	2,471,754.78															

HORIZONTAL CONTROL POINTS				
POINT NO.	NORTHING	EASTING	ELEVATION	DESCRIPTION
1	591221.82	2471098.47	714.64	106 5/8" REBAR W/ CONTROL CAP
24	591915.39	2471224.23	718.31	106 SCOTT CO GPS MON 1012
197	593370.70	2471776.62	728.85	106 5/8" REBAR W/ CONTROL CAP
198	593178.76	2471572.35	727.65	106 5/8" REBAR W/ CONTROL CAP



SURVEY CONTROL

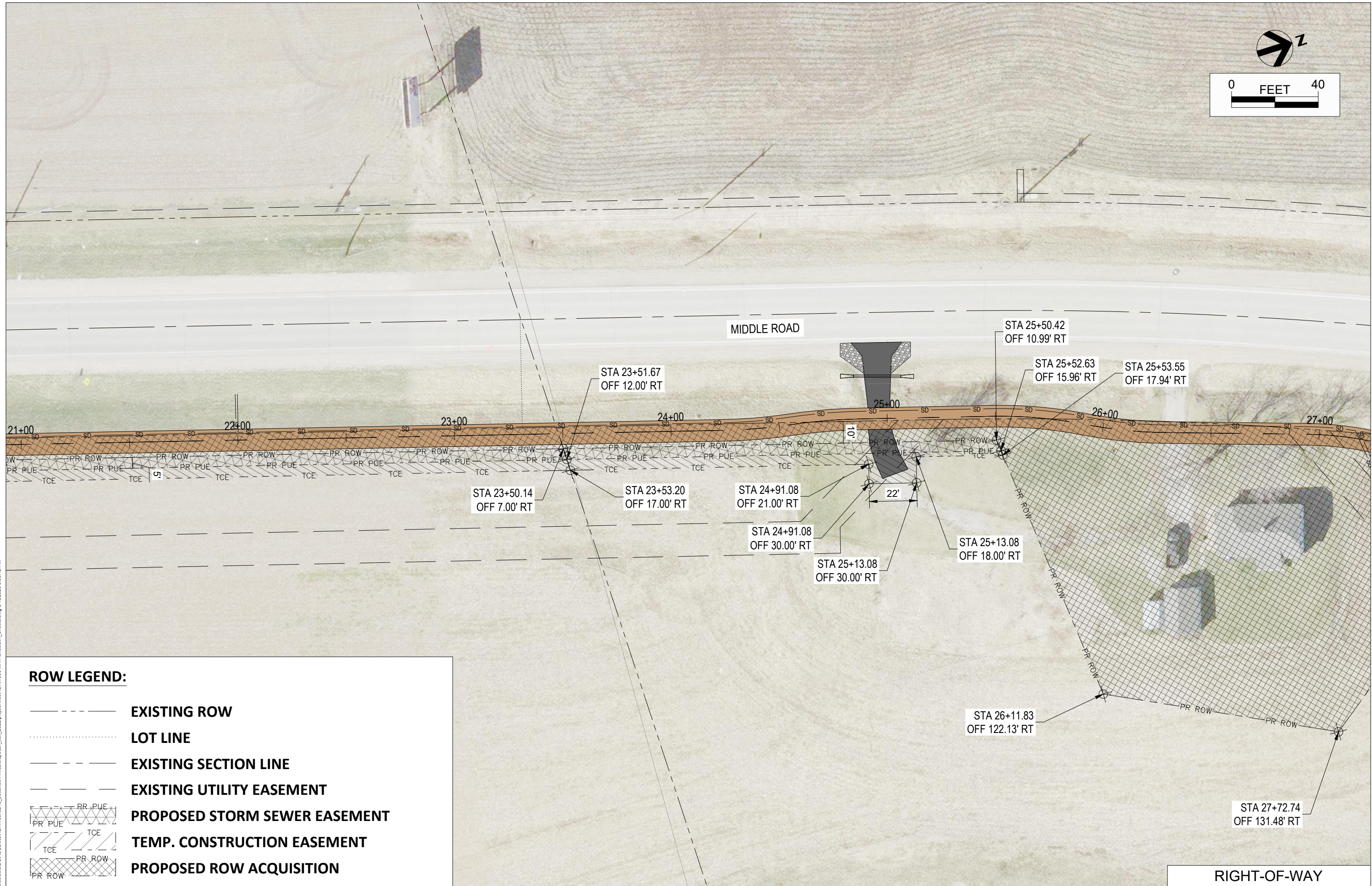
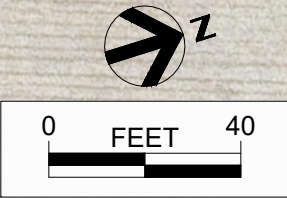
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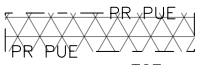
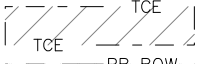

ROW LEGEND:	
	EXISTING ROW
	LOT LINE
	EXISTING SECTION LINE
	EXISTING UTILITY EASEMENT
	PROPOSED STORM SEWER EASEMENT
	TEMP. CONSTRUCTION EASEMENT
	PROPOSED ROW ACQUISITION

RIGHT-OF-WAY

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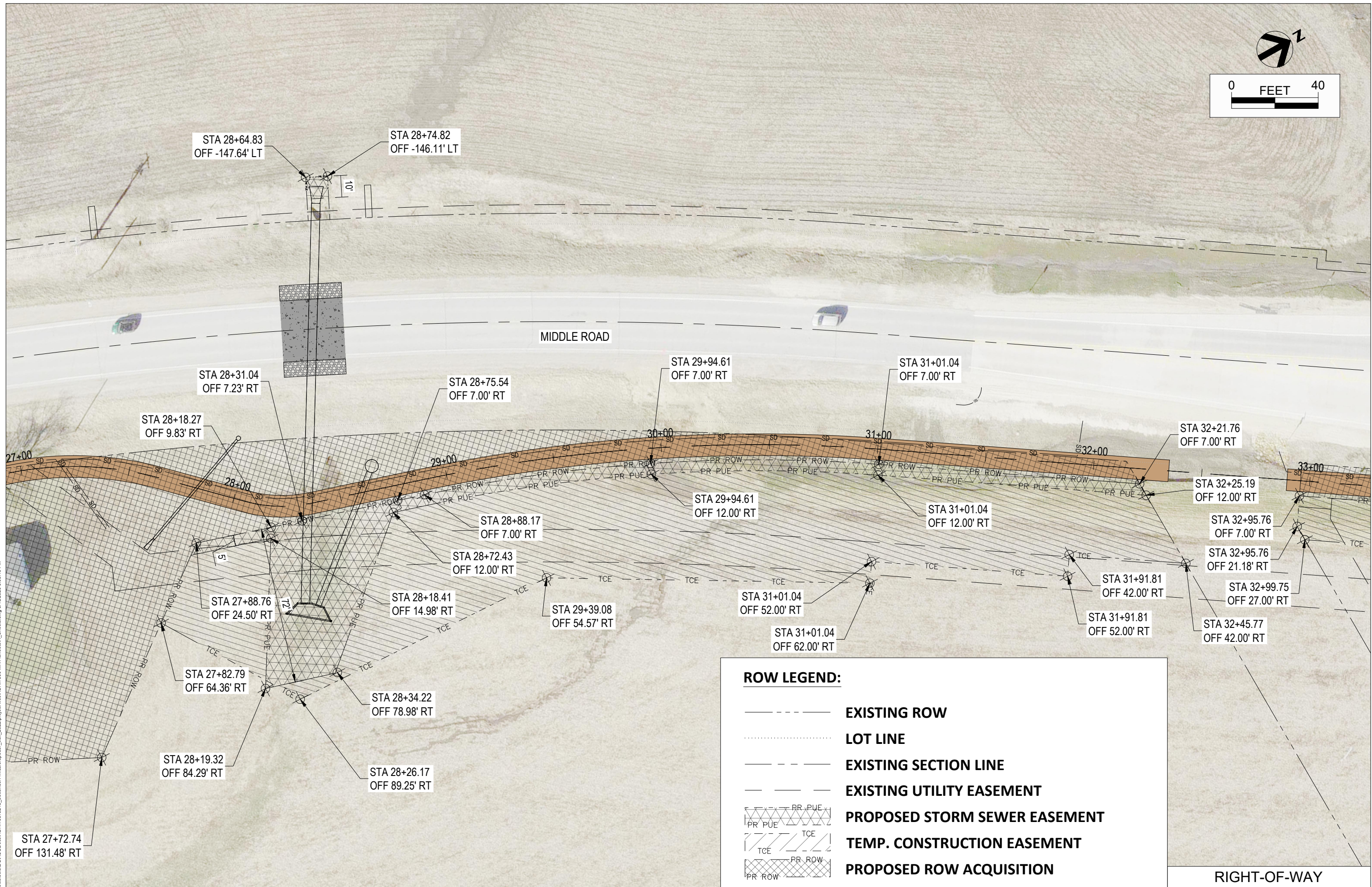
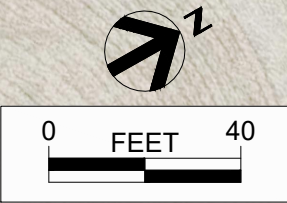


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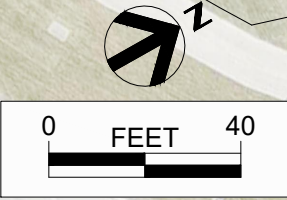
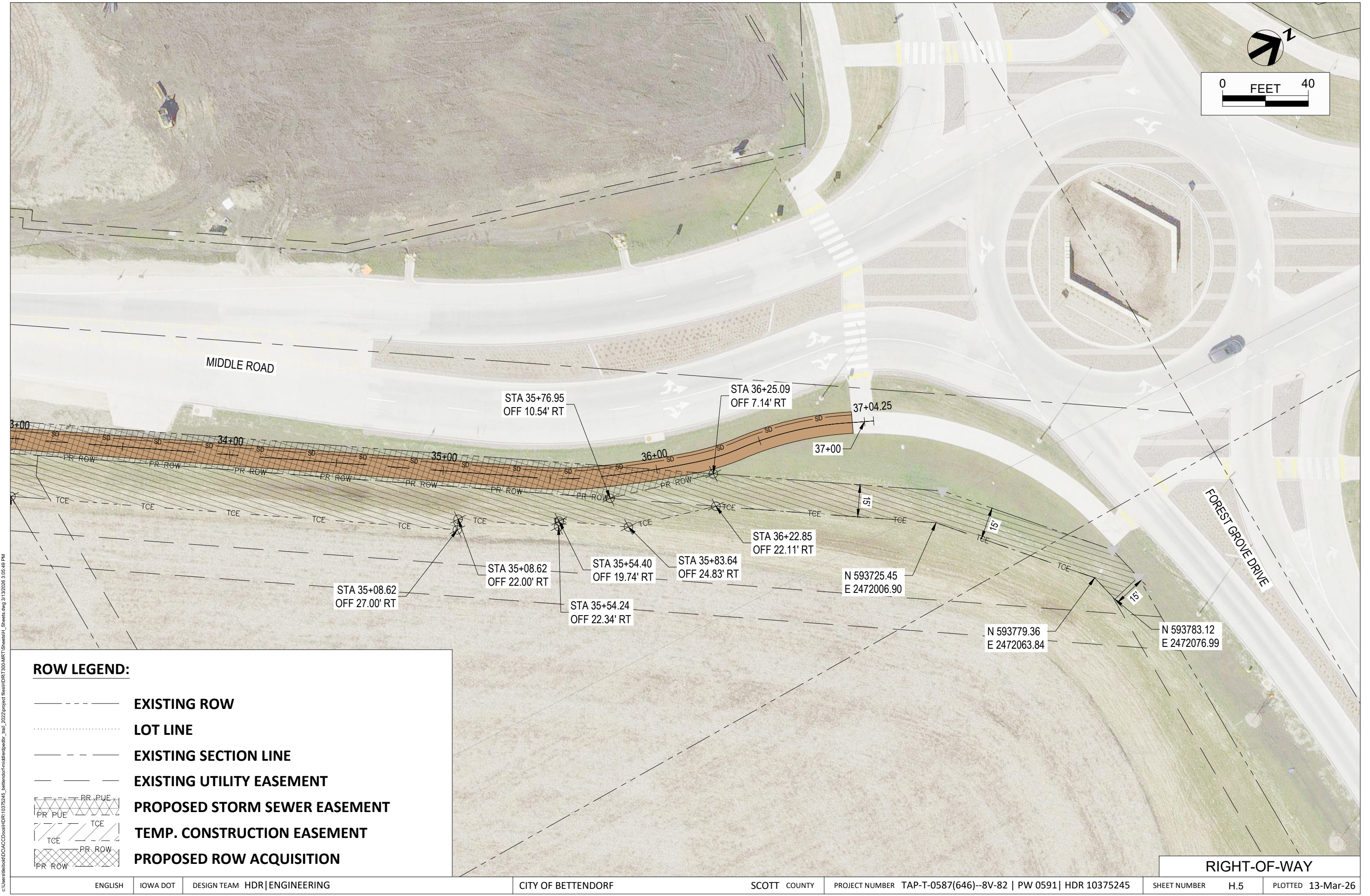
- EXISTING ROW
- ... LOT LINE
- - - EXISTING SECTION LINE
- - - EXISTING UTILITY EASEMENT
-  PROPOSED STORM SEWER EASEMENT
-  TEMP. CONSTRUCTION EASEMENT
-  PROPOSED ROW ACQUISITION

RIGHT-OF-WAY

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ROW LEGEND:

- EXISTING ROW
- LOT LINE
- EXISTING SECTION LINE
- EXISTING UTILITY EASEMENT
- PROPOSED STORM SEWER EASEMENT
- TEMP. CONSTRUCTION EASEMENT
- PROPOSED ROW ACQUISITION

RIGHT-OF-WAY

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TRAFFIC CONTROL NOTES

1.

MAJOR STAGES OF CONSTRUCTION ARE SHOWN IN THE STAGING AND TRAFFIC CONTROL PLAN. CHANGES TO THE STAGING PLAN MUST BE APPROVED BY THE ENGINEER. WRITTEN NOTICE SHALL BE PROVIDED TO THE ENGINEER AT LEAST 48 HOURS IN ADVANCE OF ROADWAY CLOSURES AND STAGE TRANSITIONS.
2.

CONTRACTOR TO NOTIFY ENGINEER AT LEAST 48 HOURS IN ADVANCE OF STREET/LANE CLOSURES.
3.

CONTRACTOR WILL BE REQUIRED TO MAINTAIN ACCESS TO EXISTING SIDEWALKS. IF SIDEWALK CLOSURE IS NEEDED, CONTRACTOR WILL PROVIDE A DETOUR ROUTE OR DIVERSION, WITH APPROVAL OF THE ENGINEER.
4.

PORTABLE MOUNTINGS FOR WARNING SIGNS MAY BE USED FOR TEMPORARY INSTALLATIONS OF 3 DAYS OR LESS. ALL OTHER TRAFFIC CONTROL SIGNS SHALL BE POST MOUNTED.
5.

THE PROPOSED SIGNAGE MAY BE MODIFIED TO MEET FIELD CONDITIONS, PREVENT OBSTRUCTIONS AND TO ACCOMMODATE CONSTRUCTION SCHEDULING, WITH APPROVAL OF THE ENGINEER.
6.

REMOVE & REINSTALL, OR COVER PERMANENT TRAFFIC CONTROL DEVICES AND/OR PRIVATE SIGNING THAT CONFLICTS WITH THE TEMPORARY TRAFFIC CONTROL PLAN OR CONSTRUCTION, WITH APPROVAL OF THE ENGINEER.
7.

MULTIPLE MOBILIZATIONS ARE ANTICIPATED FOR TRAFFIC CONTROL TO ADJUST THE TRAFFIC CONTROL DEVICES FOR DIFFERENT STAGES OF CONSTRUCTION. THESE MOBILIZATIONS SHALL BE INCIDENTAL TO THE TRAFFIC CONTROL BID ITEM.
8.

CONTRACTOR SHALL PROVIDE AND MAINTAIN ALL TRAFFIC CONTROL DEVICES DURING THE COURSE OF THE CONSTRUCTION PROJECT.
9.

CONTRACTOR SHALL COORDINATE WITH OTHER CITY PROJECTS AND TRAFFIC CONTROL AS NEEDED.
10.

TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH IOWA DOT TRAFFIC CONTROL STANDARD ROAD PLANS - AND THE LATEST EDITION OF THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
11.

PLACE PORTABLE DYNAMIC MESSAGE SIGNS AT LOCATIONS NOTED A MINIMUM OF FIVE (5) DAYS IN ADVANCE OF MIDDLE ROAD CLOSURE. MESSAGE: "MIDDLE ROAD CLOSED STARTING XX/XX/XX". COORDINATE WITH CONSTRUCTION INSPECTION STAFF.

STAGING NOTES

1.

CONTRACTOR SHALL DISTRIBUTE CONSTRUCTION NOTIFICATIONS TO EACH PROPERTY OWNER WITHIN THE PROJECT LIMITS BETWEEN 7 - 14 CALENDAR DAYS IN ADVANCE OF COMMENCEMENT OF CONSTRUCTION. NOTIFICATION LETTERS OR HANGERS SHALL BE APPROVED BY THE ENGINEER PRIOR TO DISTRIBUTION. LETTERS SHALL INCLUDE:

A.PRIME CONTRACTOR'S NAME.

B.SUPERINTENDENT'S NAME AND 24-HOUR CONTACT NUMBER.

C.BRIEF DESCRIPTION OF THE WORK.

D.DATE OF COMMENCEMENT AND COMPLETION OF CONSTRUCTION ACTIVITIES.

E.DESCRPTION OF ACCESS LIMITATIONS.

F.SPECIAL CONSIDERATIONS: REFUSE COLLECTION, MAIL DELIVERY, OTHERS.

WORK MAY NOT BEGIN UNLESS NOTIFICATIONS ARE MADE IN ACCORDANCE WITH THIS PROVISION.
2.

CONTRACTOR SHALL NOTIFY EACH RESIDENT AT LEAST 2 WEEKS IN ADVANCE OF THE START OF DRIVEWAY RECONSTRUCTION, CONTRACTOR SHALL NOT RESTRICT ACCESS TO RESIDENTIAL DRIVEWAYS FOR MORE THAN 10 WORKING DAYS EACH.
3.

CONTRACTOR SHALL MAINTAIN EMS ACCESS AND PROVIDE ACCOMMODATIONS FOR ACCESS AS NEEDED.
4.

CONTRACTOR SHALL NOT LEAVE ANY OPEN TRENCHES ADJACENT TO THE TRAFFIC LANE DURING NON-WORKING HOURS.
5.

FOR DUAL DRIVEWAY PROPERTIES, ONLY ONE DRIVEWAY MAY BE CLOSED AT A TIME IN ORDER TO MAINTAIN PROPERTY OWNER ACCESS AT ALL TIMES.
6.

CONTRACTOR SHALL MAINTAIN POSITIVE DRAINAGE THROUGHOUT CONSTRUCTION TO PREVENT PONDING OR DAMAGE TO ADJACENT PROPERTY. IT IS RECOMMENDED TO BEGIN WORK NEAR STA. 37+00 (HIGH POINT) AND PROGRESS DOWN STATION TO MAINTAIN EXISTING DRAINAGE PATTERNS AND MINIMIZE TEMPORARY STORMWATER IMPACTS.

DETOUR CONSTRUCTION:

- CONSTRUCT 48" RCP CULVERT ACROSS MIDDLE ROAD

DETOUR TRAFFIC:

- CLOSE MIDDLE ROAD AND SETUP DETOUR ROUTE & SIGNAGE AS SHOWN
- MAXIMUM 10 DAY CLOSURE
- MAINTAIN TRAFFIC AT RELATIONSHIP DRIVE

STAGE 1 CONSTRUCTION:

- CONSTRUCT TRAIL, DRIVEWAYS, AND REMAINING STORM SEWER WORK.

STAGE 1 TRAFFIC:

- MAINTAIN NORMAL MIDDLE ROAD TRAFFIC
- SEE STAGING NOTE 5

SIDEWALK STAGING NOTES

1.

CONTRACTOR SHALL KEEP THE CONSTRUCTED TRAIL CLOSED UNTIL APPROVAL IS GIVEN FROM THE ON-SITE ENGINEER.

IOWA DOT STANDARD ROAD PLANS - TRAFFIC CONTROL

THIS LIST OF APPLICABLE STANDARDS FOR USE ON THIS PROJECT:

- TC-202 - WORK WITHIN 15 FT OF TRAVELED WAY
- TC-252 - ROUTES CLOSED TO TRAFFIC

PLAN VIEW PATTERN AND SYMBOL LEGEND
OF TRAFFIC CONTROL AND STAGING SHEETS

●

CHANNELIZING DEVICE

┆

TRAFFIC SIGN

┆

TYPE III BARRICADE

┌

└

SAFETY CLOSURE

— — — — —

DETOUR ROUTE

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ENGLISH

IOWA DOT

DESIGN TEAM HDR|ENGINEERING

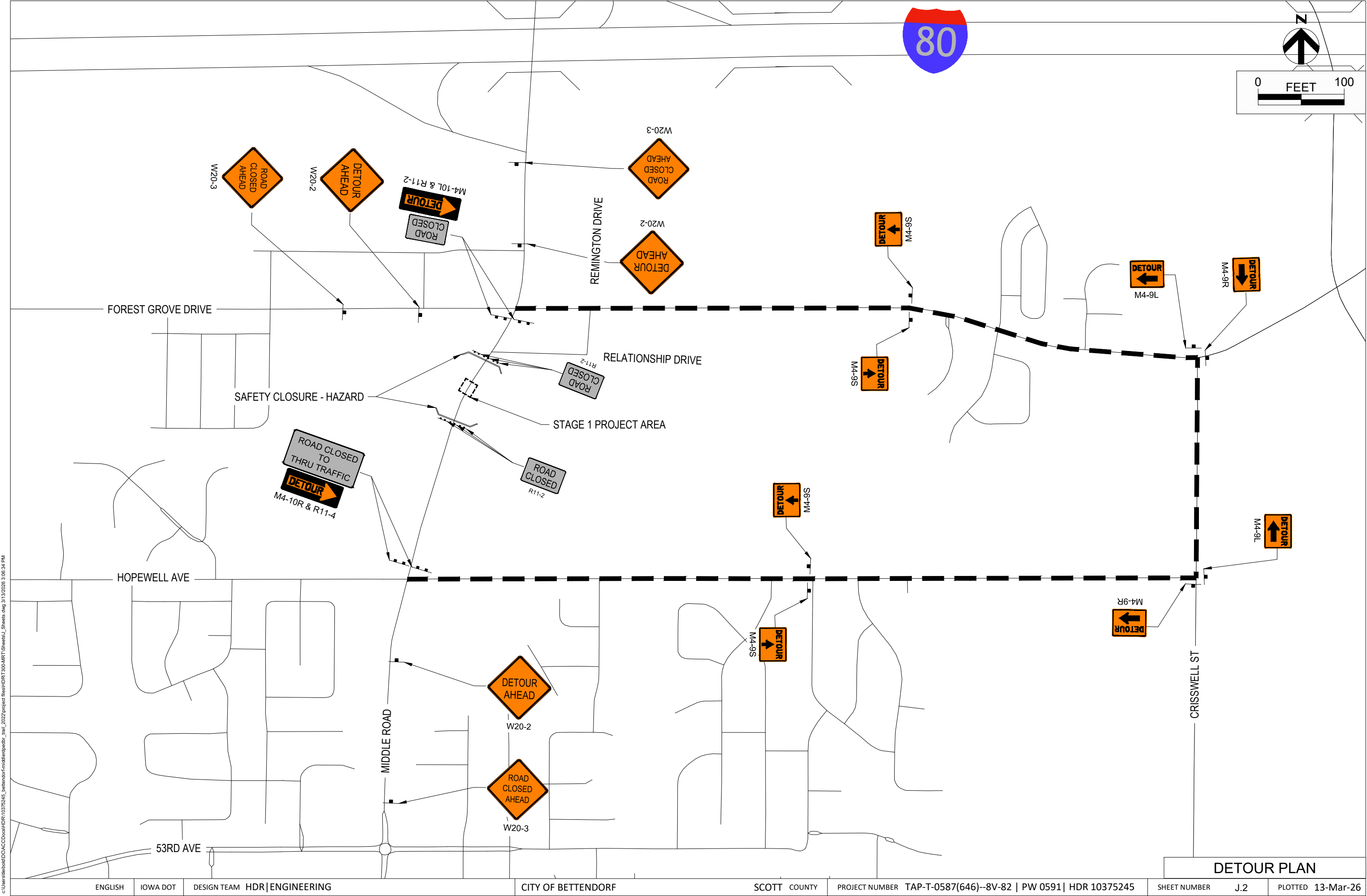
CITY OF BETTENDORF

SCOTT COUNTY

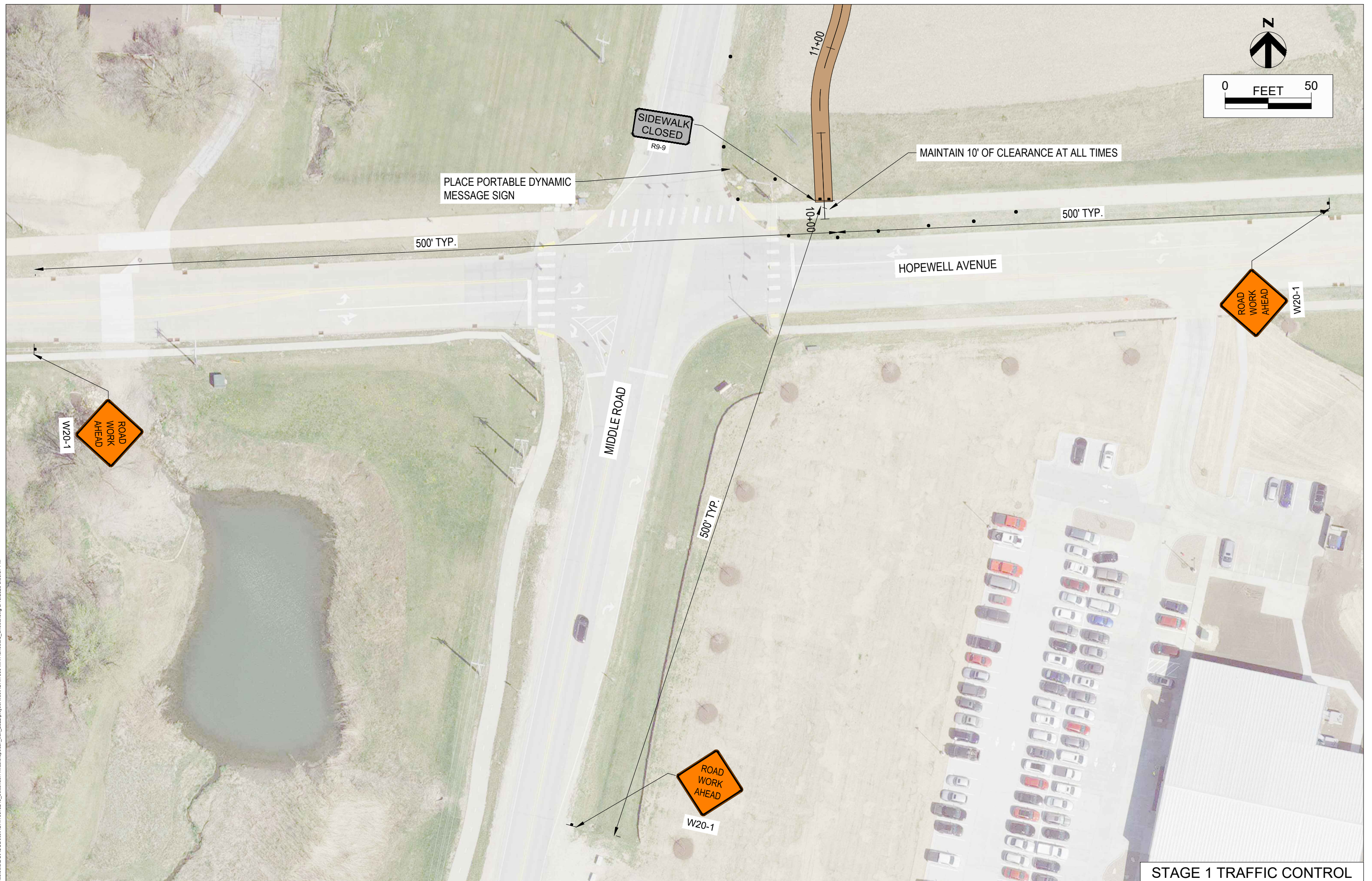
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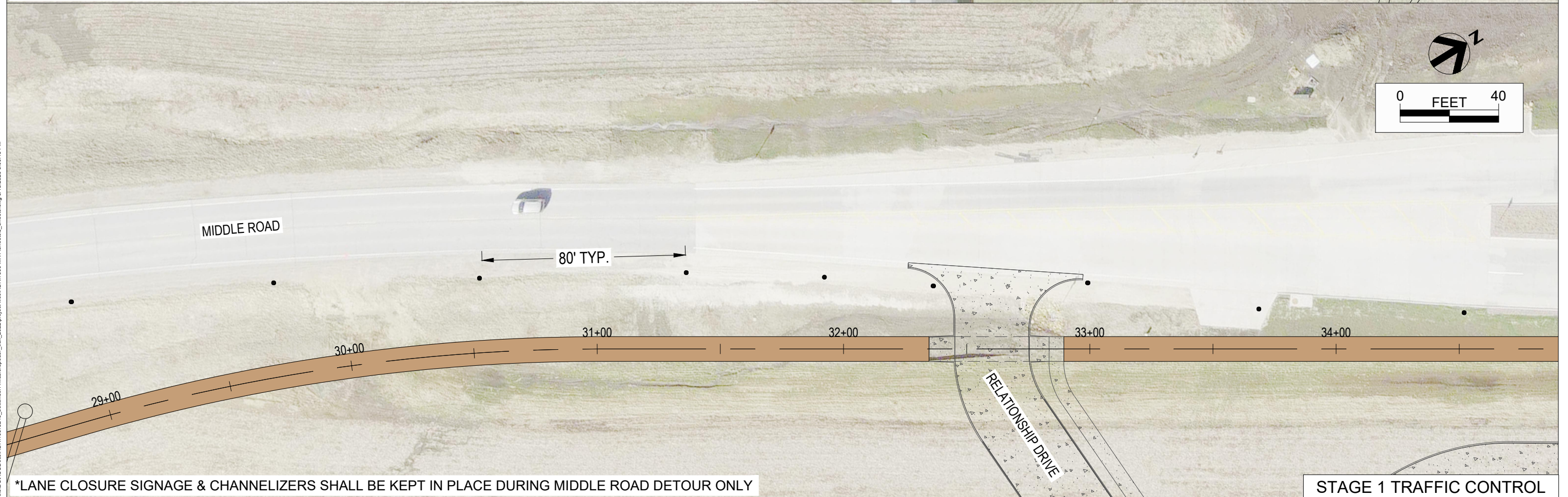
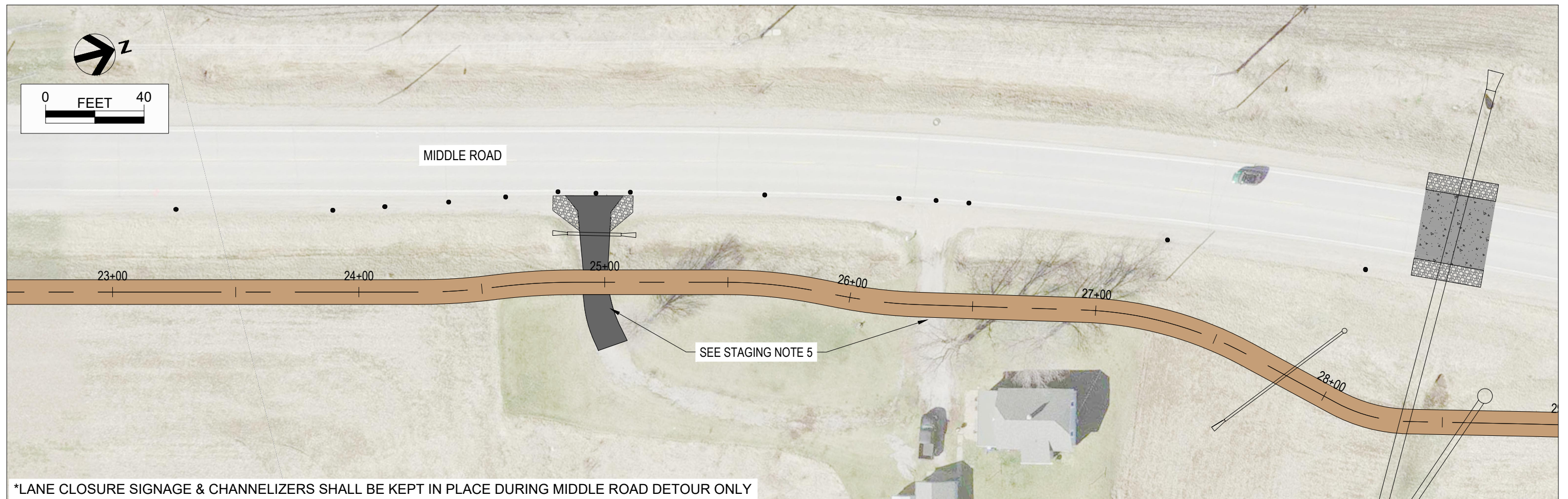
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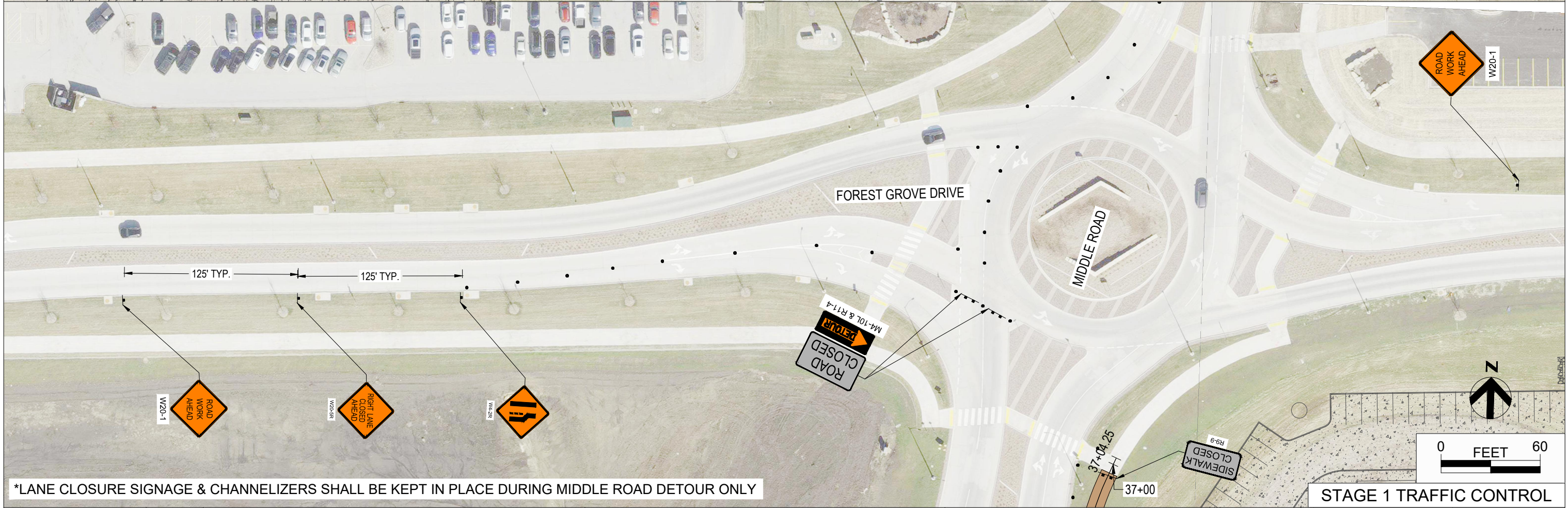
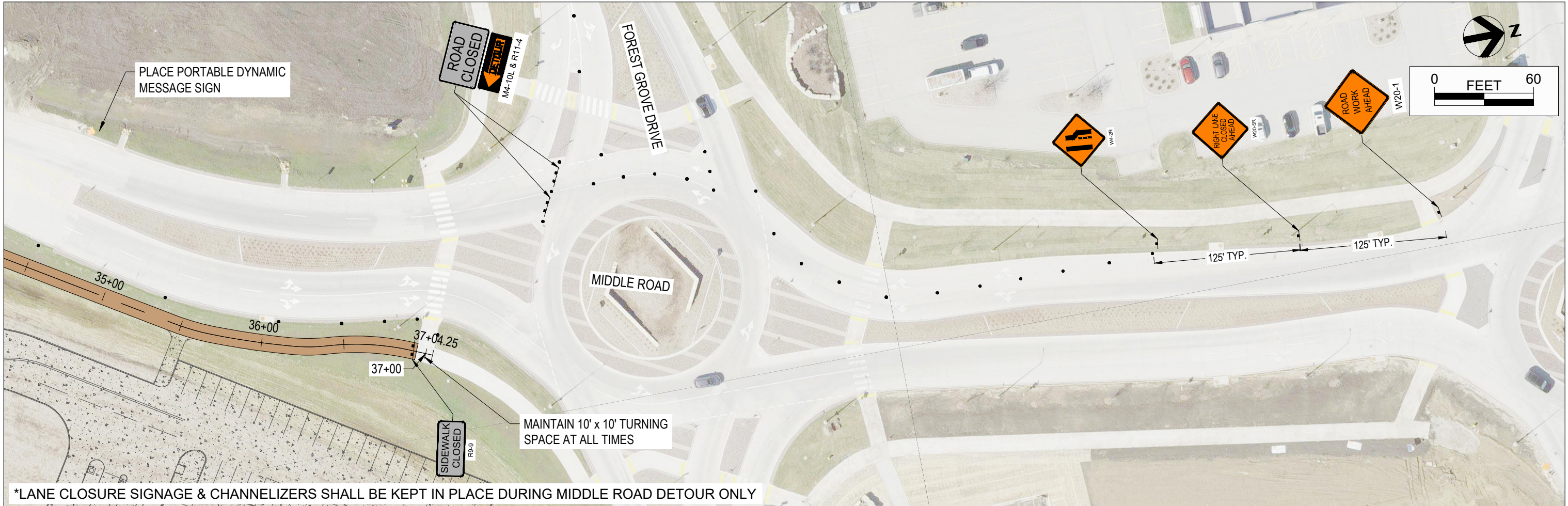
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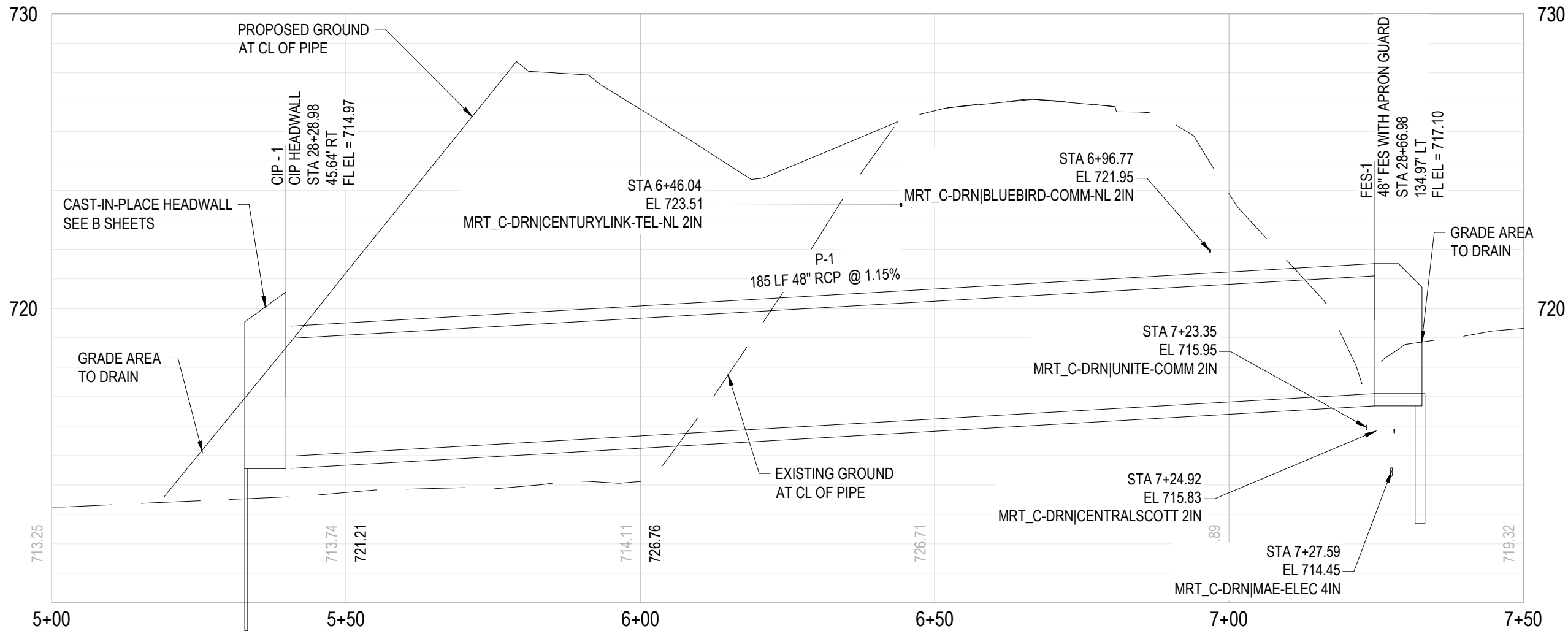
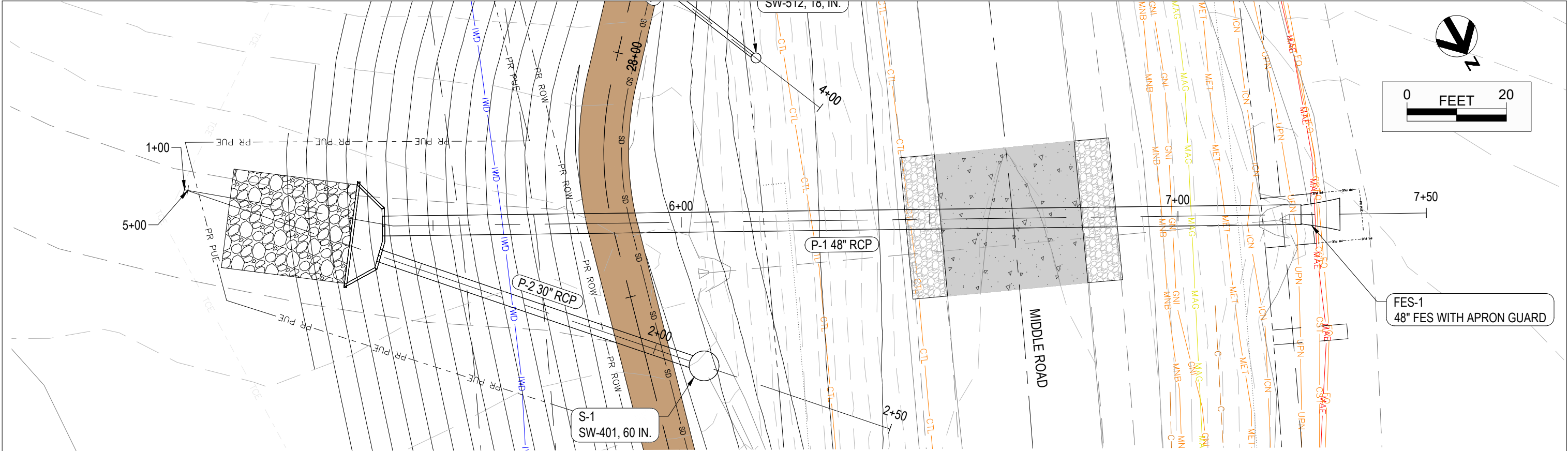


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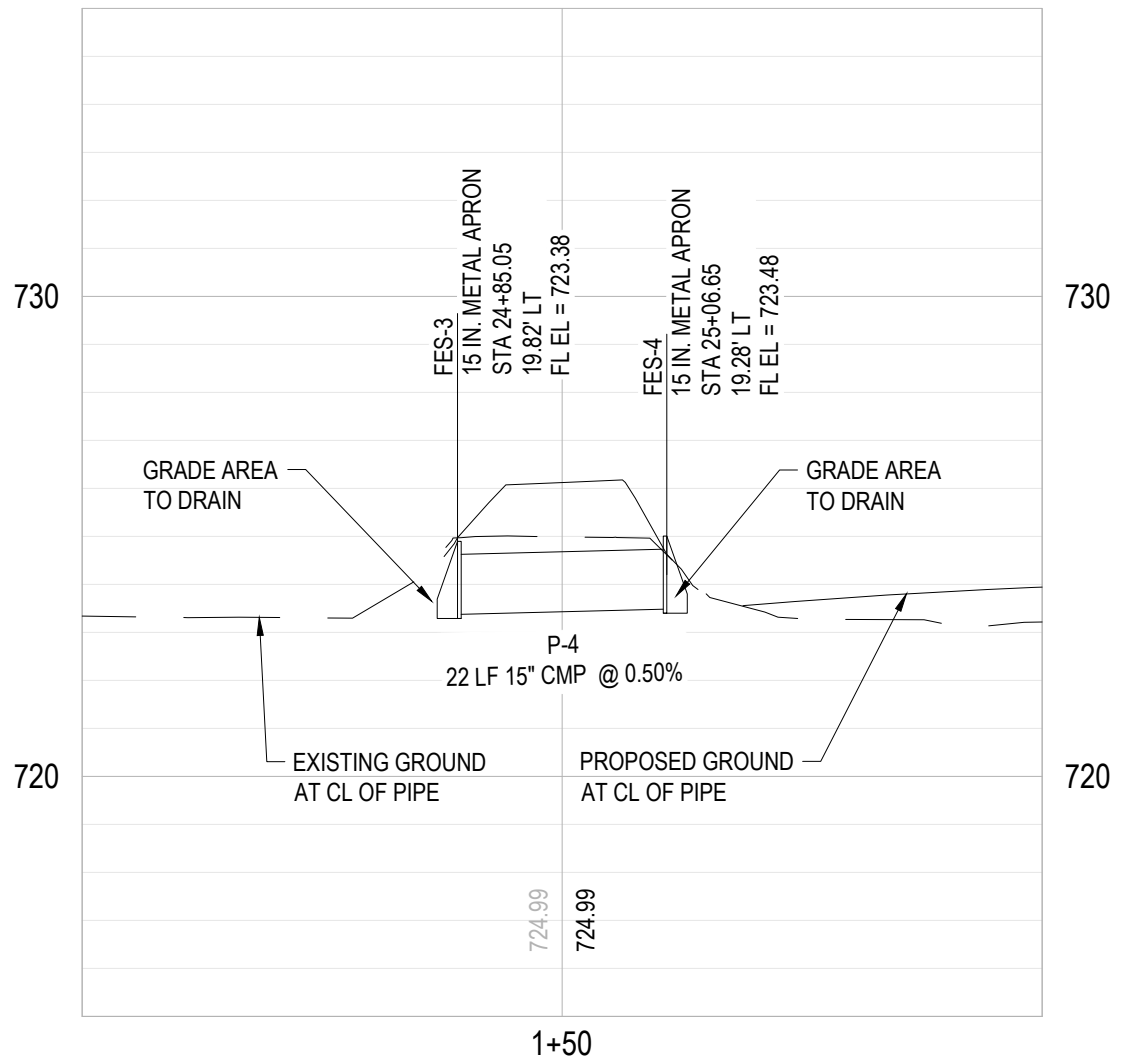
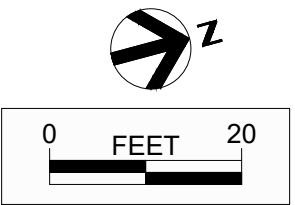
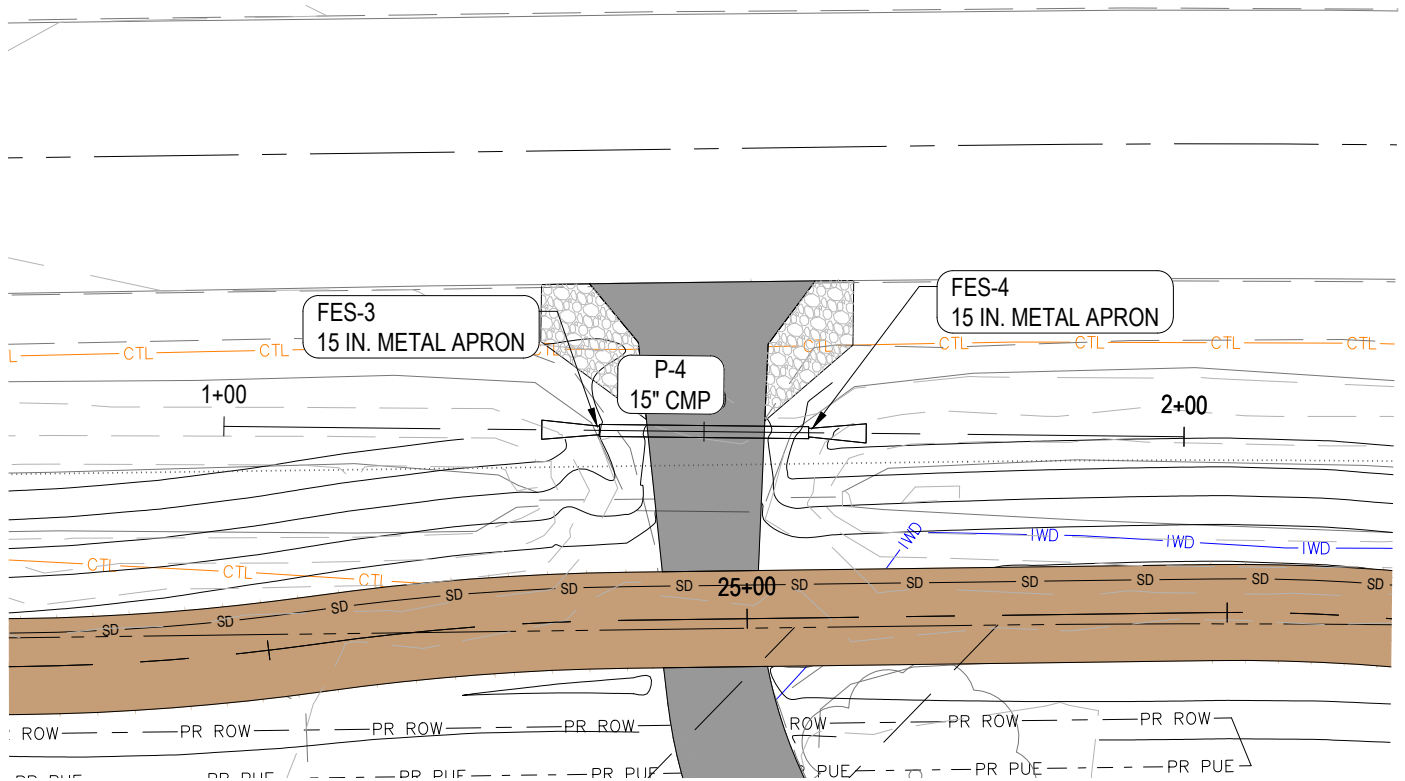


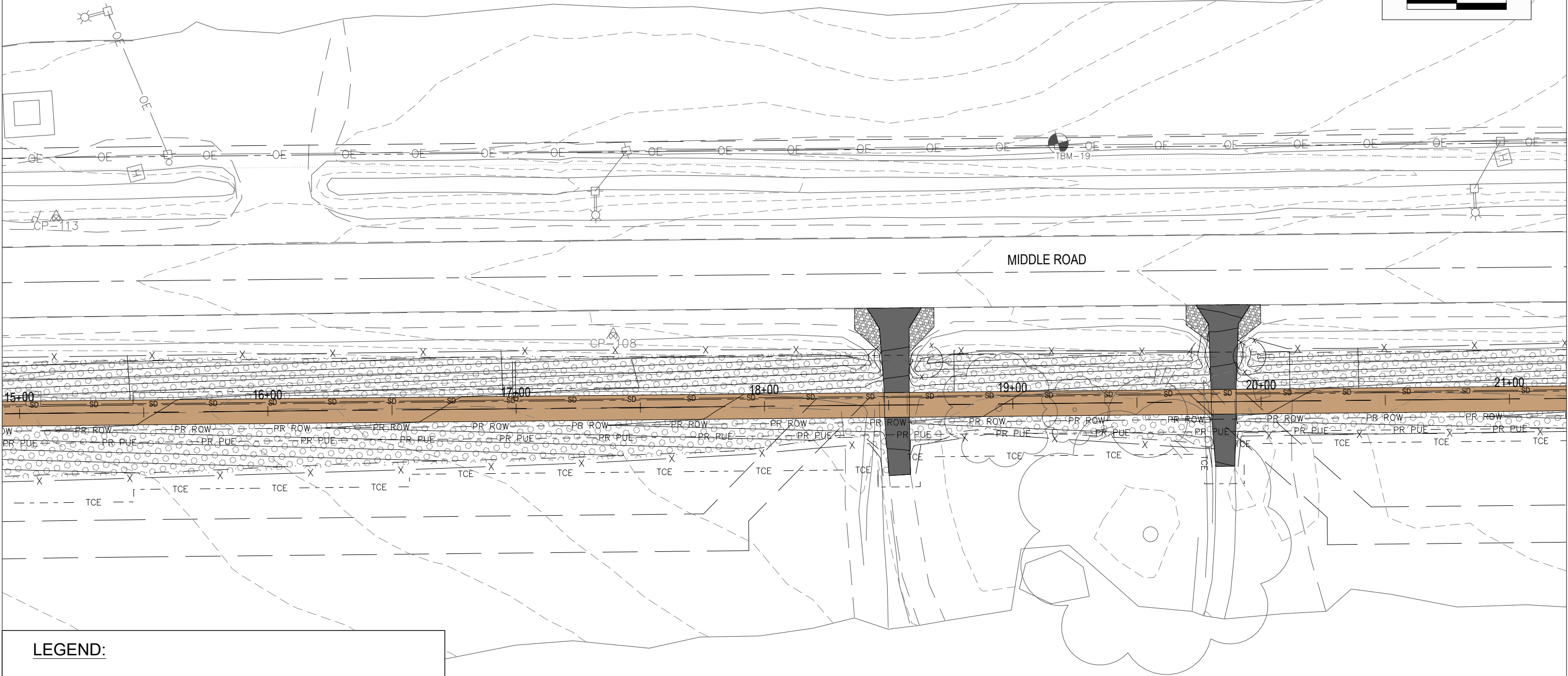
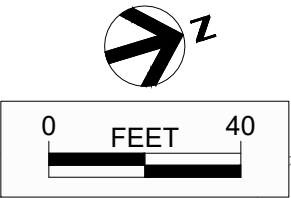








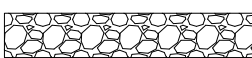


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LEGEND:

-  SILT FENCE
-  EROSION CONTROL FOR INTAKE OR MANHOLE WELL
-  PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE
-  HYDRAULIC SEEDING, SEEDING, FERTILIZING, AND MULCHING
-  CLASS E REVETMENT

EROSION CONTROL



0 FEET 40

MIDDLE ROAD

TBM-22

CP-109

Year	Estimated number of people in the world who are not in the labour force (millions)
2010	1000
2011	1010
2012	1020
2013	1030
2014	1040
2015	1050
2016	1060
2017	1070
2018	1080
2019	1090
2020	1100
2021	1110
2022	1120
2023	1130
2024	1140
2025	1150
2026	1160
2027	1170
2028	1180
2029	1190
2030	1200
2031	1210
2032	1220
2033	1230
2034	1240
2035	1250
2036	1260
2037	1270
2038	1280
2039	1290
2040	1300
2041	1310
2042	1320
2043	1330
2044	1340
2045	1350
2046	1360
2047	1370
2048	1380
2049	1390
2050	1400

LEGEND:

SILT FENCE

EROSION CONTROL FOR INTAKE OR MANHOLE WELL

PERIMETER AND SLOPE SEDIMENT CONTROL DEVICE

HYDRAULIC SEEDING, SEEDING, FERTILIZING, AND MULCHING

CLASS E REVETMENT

EROSION CONTROL

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ENGLISH IOWA DOT DESIGN TEAM HDR | ENGINEERING

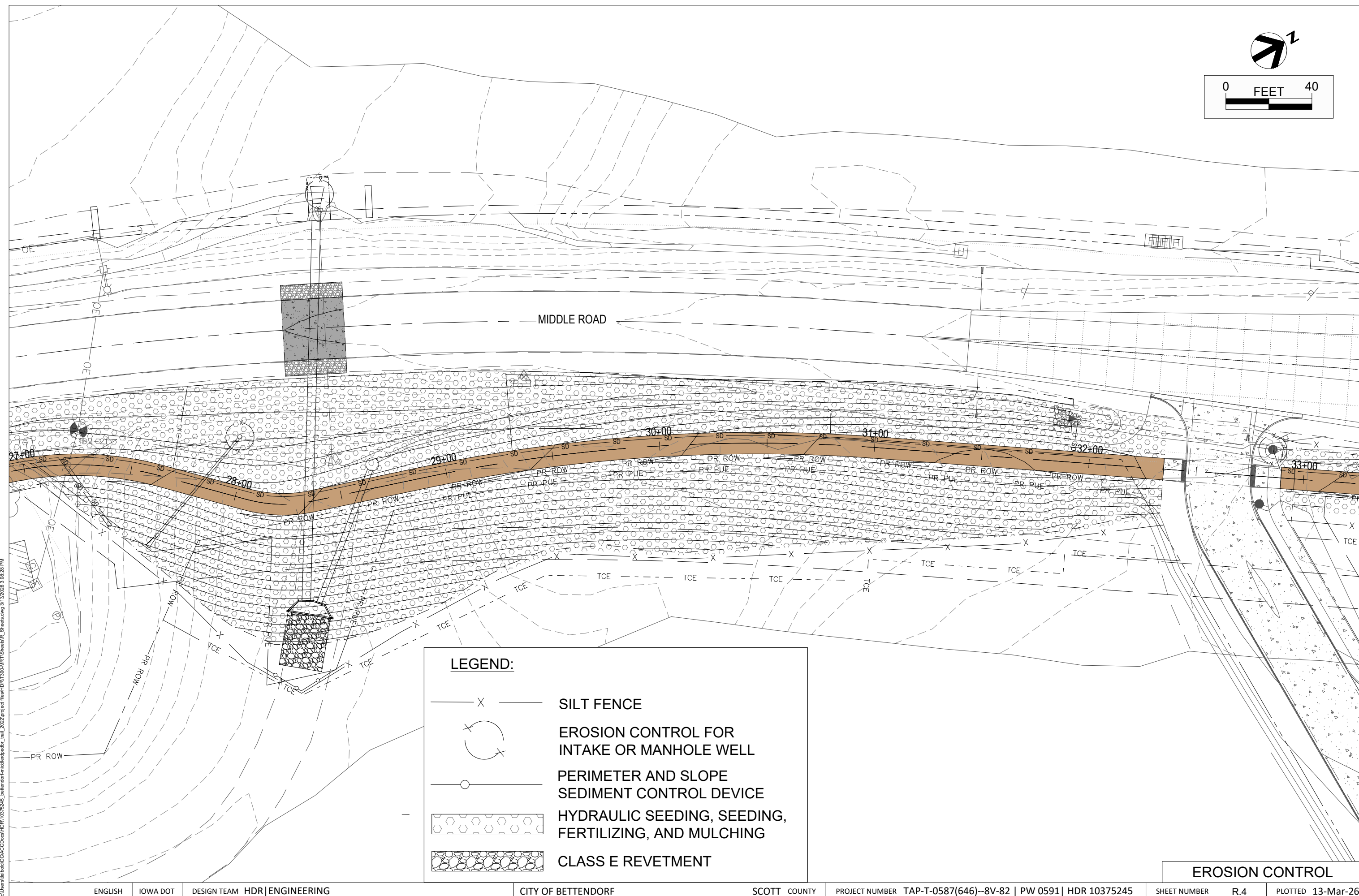
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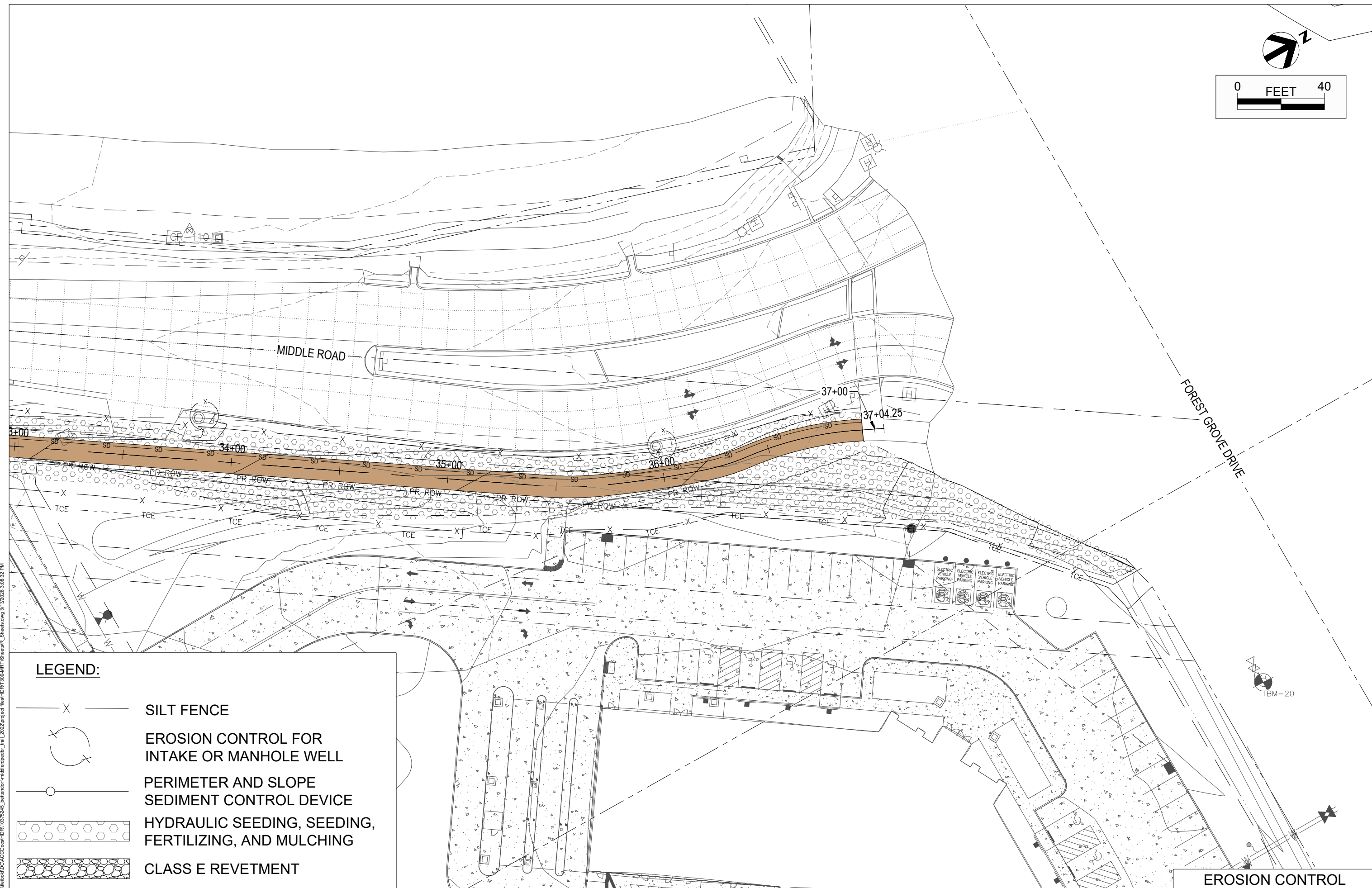
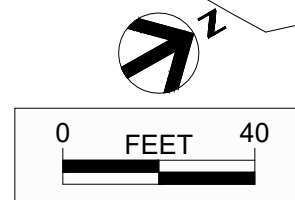
SCOTT COUNTY

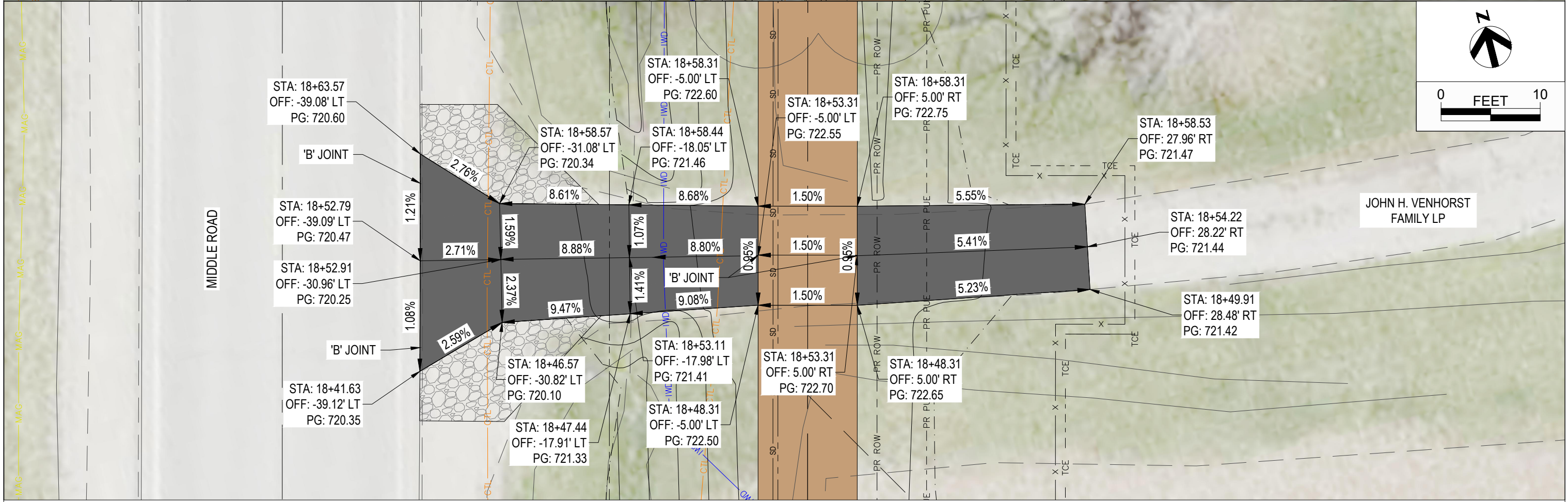
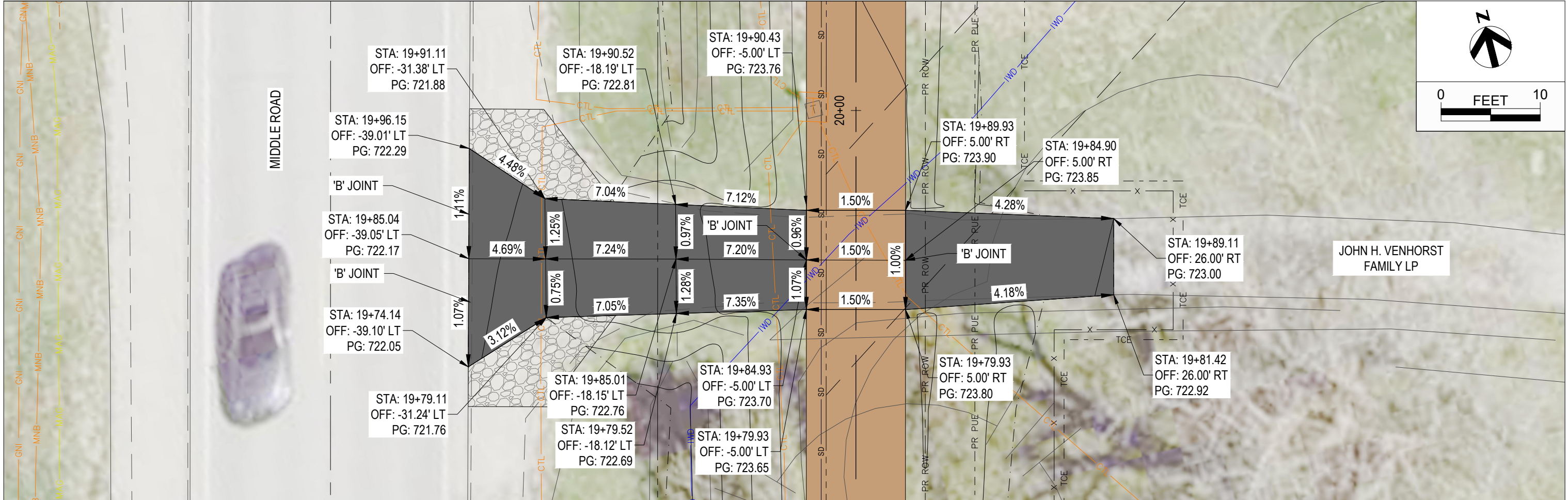
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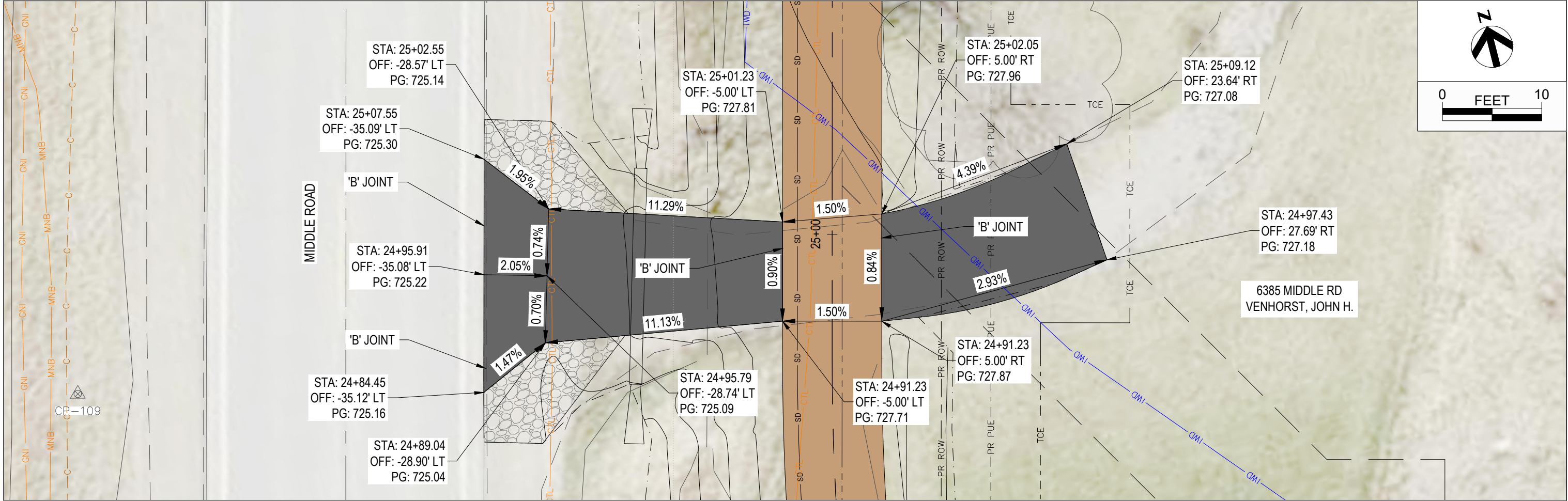
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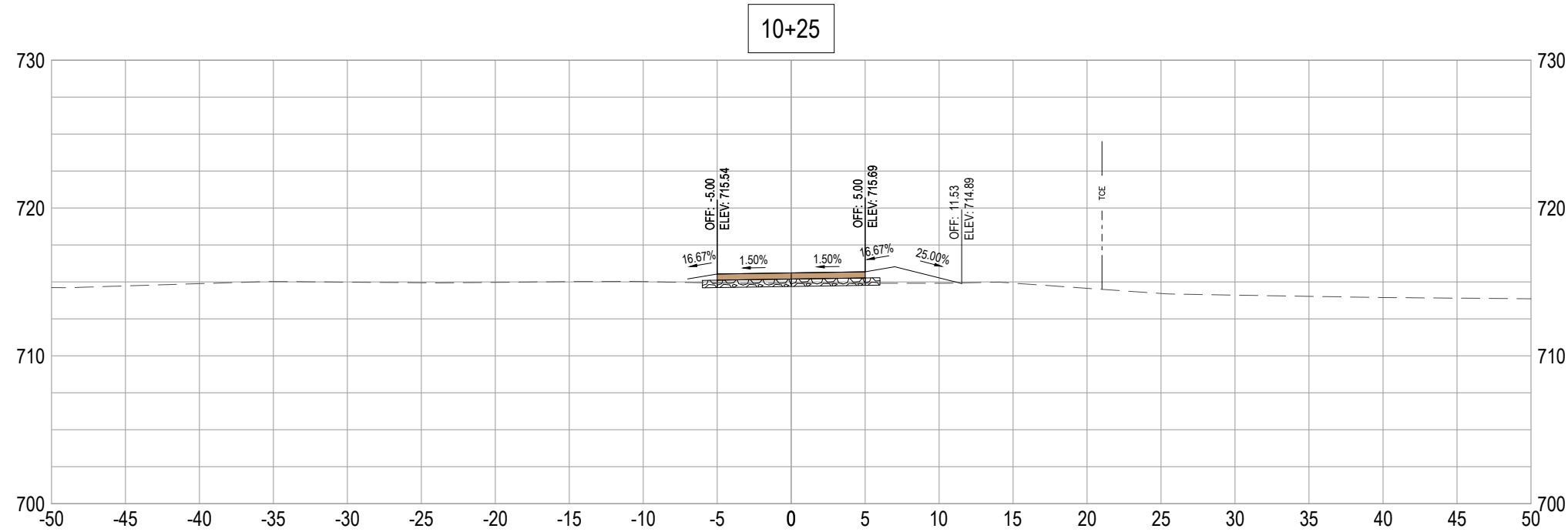
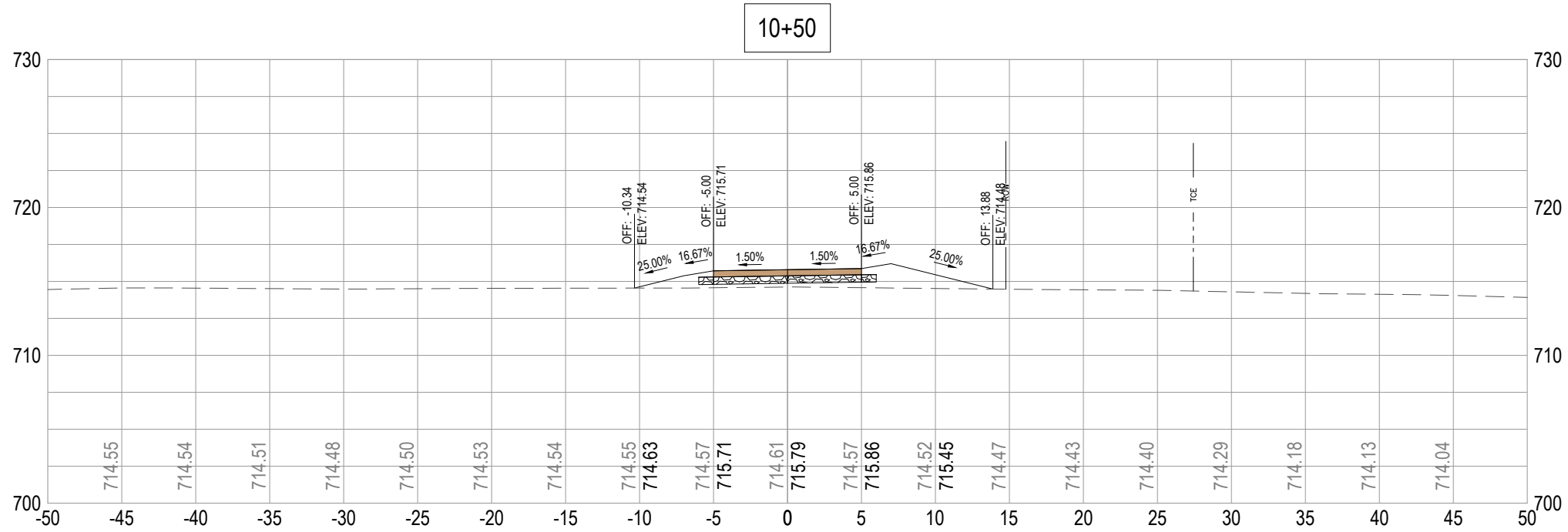






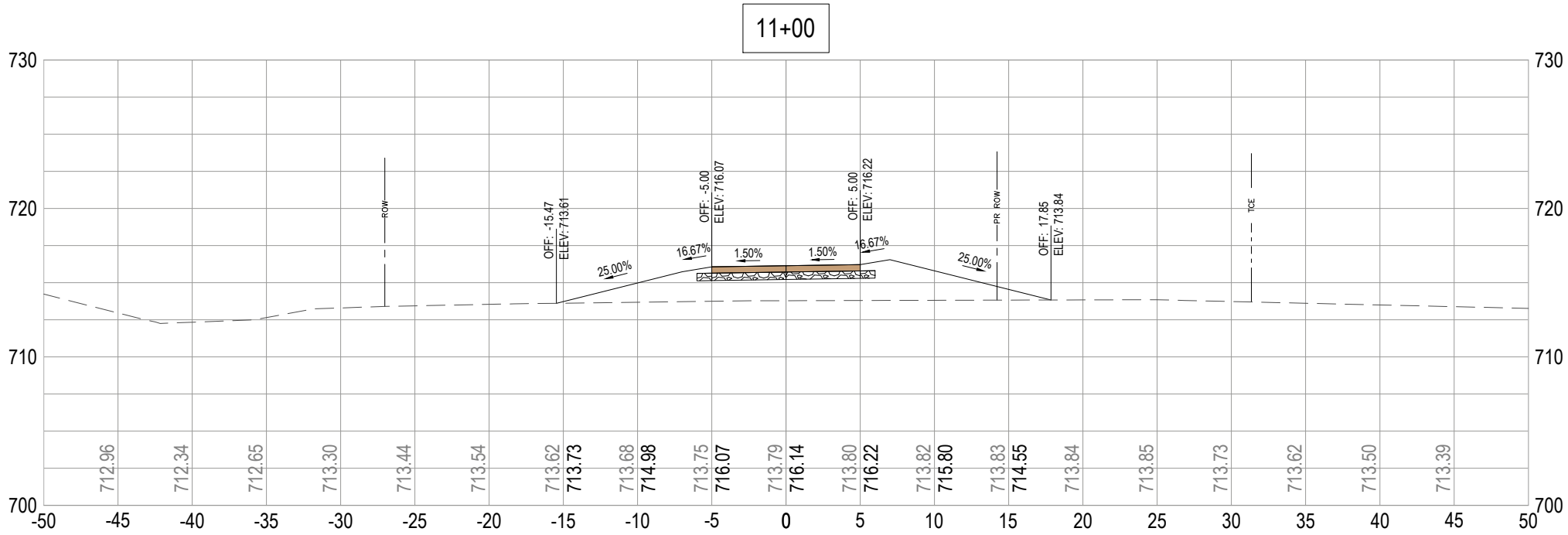
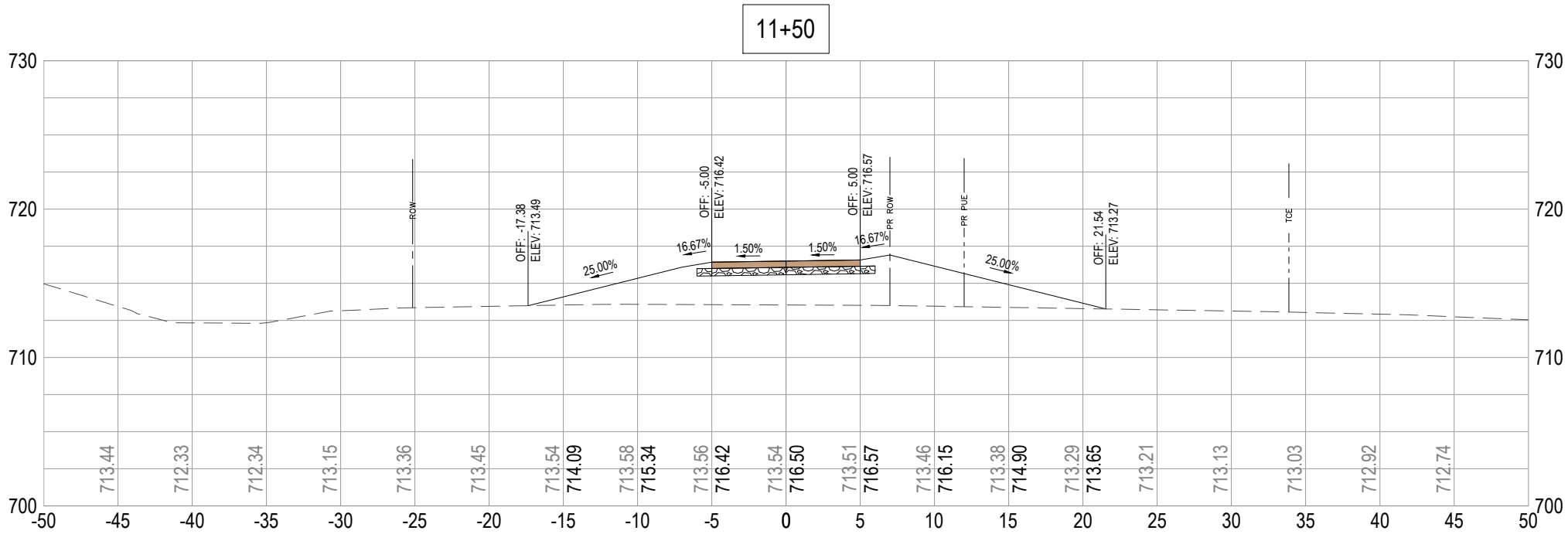
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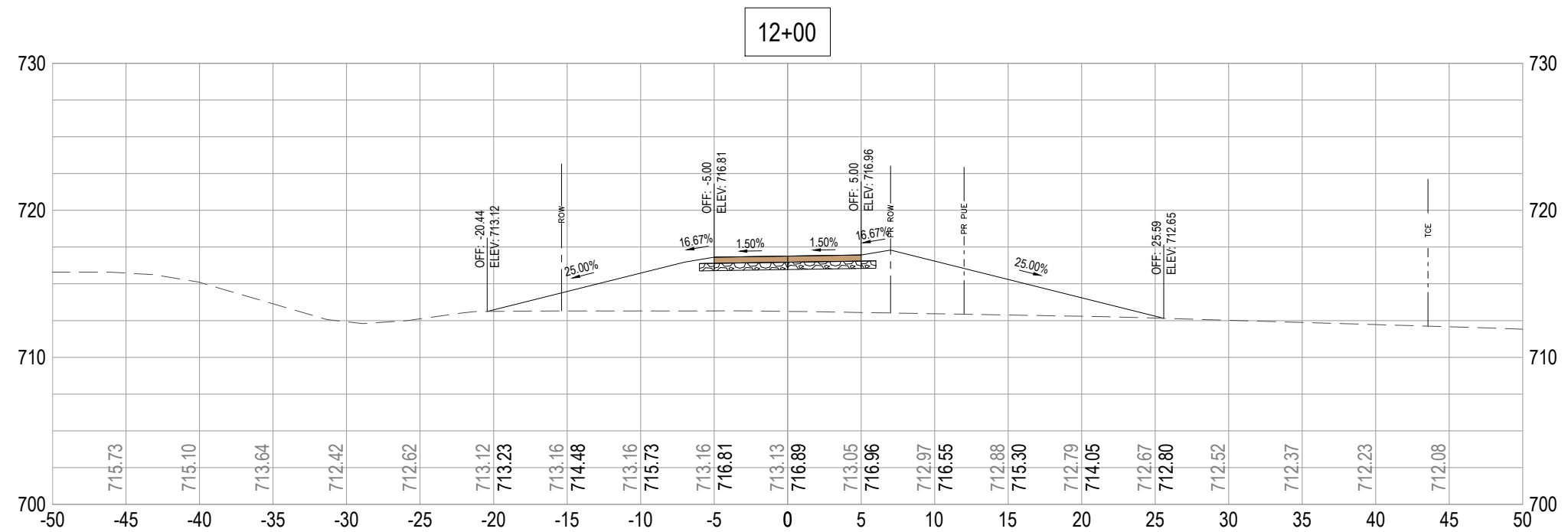
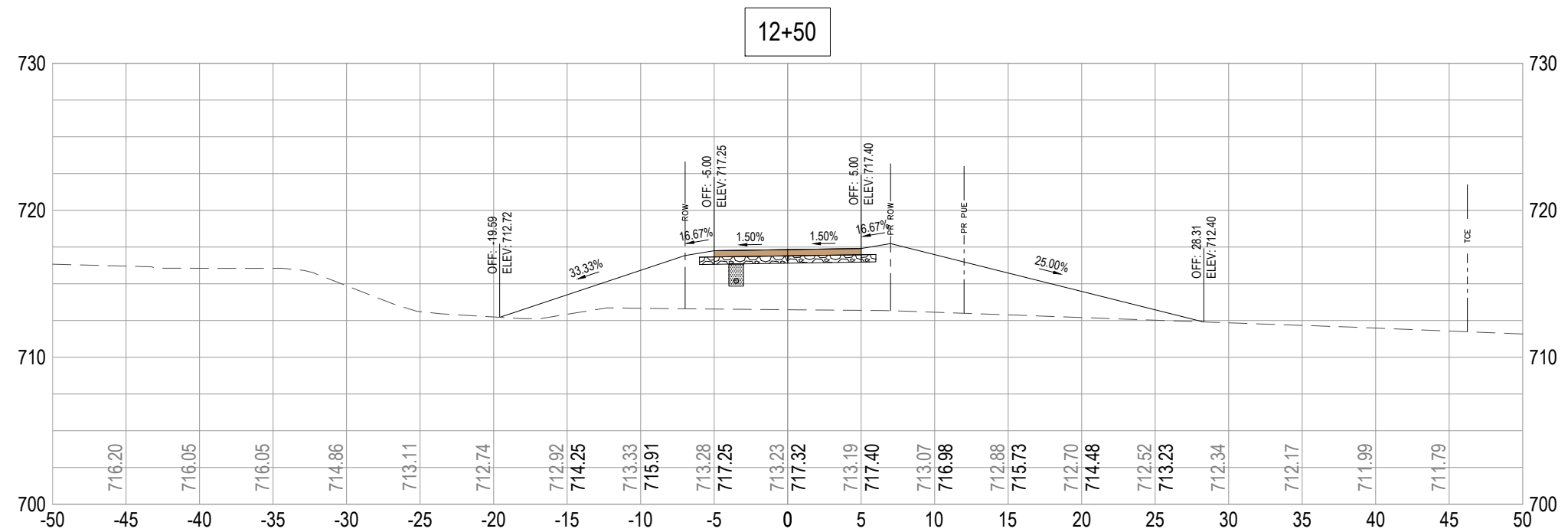
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PCC PAVING	
GRANULAR SUBBASE	
PROPOSED GRADE	
PROPOSED GRADE - BY OTHERS	
EXISTING GRADE	



CROSS SECTIONS



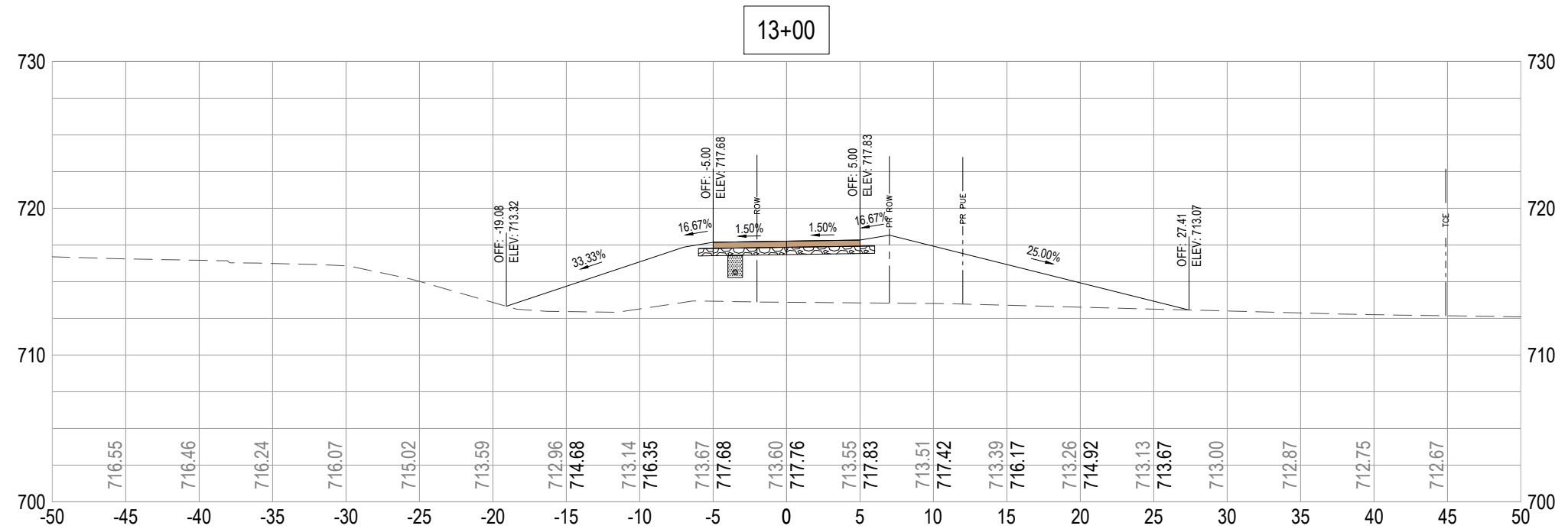
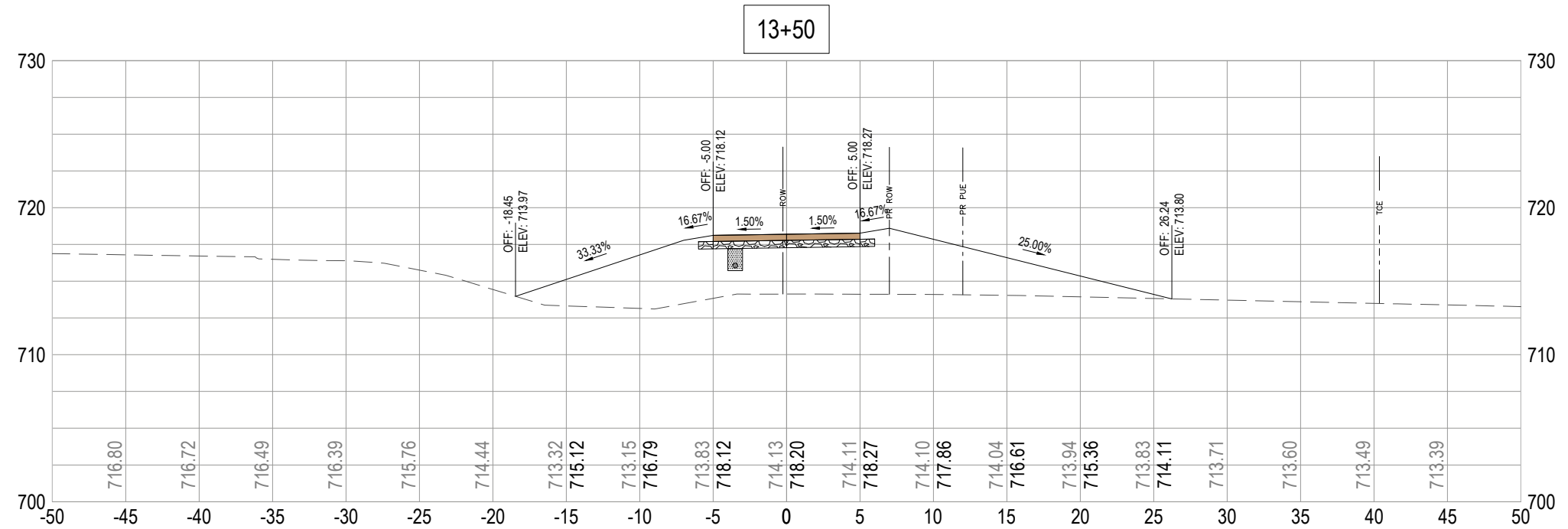
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GRANULAR SUBBASE	
PROPOSED GRADE	
PROPOSED GRADE - BY OTHERS	
EXISTING GRADE	






CROSS SECTIONS



LEGEND	
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PROPOSED GRADE - BY OTHERS	-----
EXISTING GRADE	___ _ _ _

CROSS SECTIONS

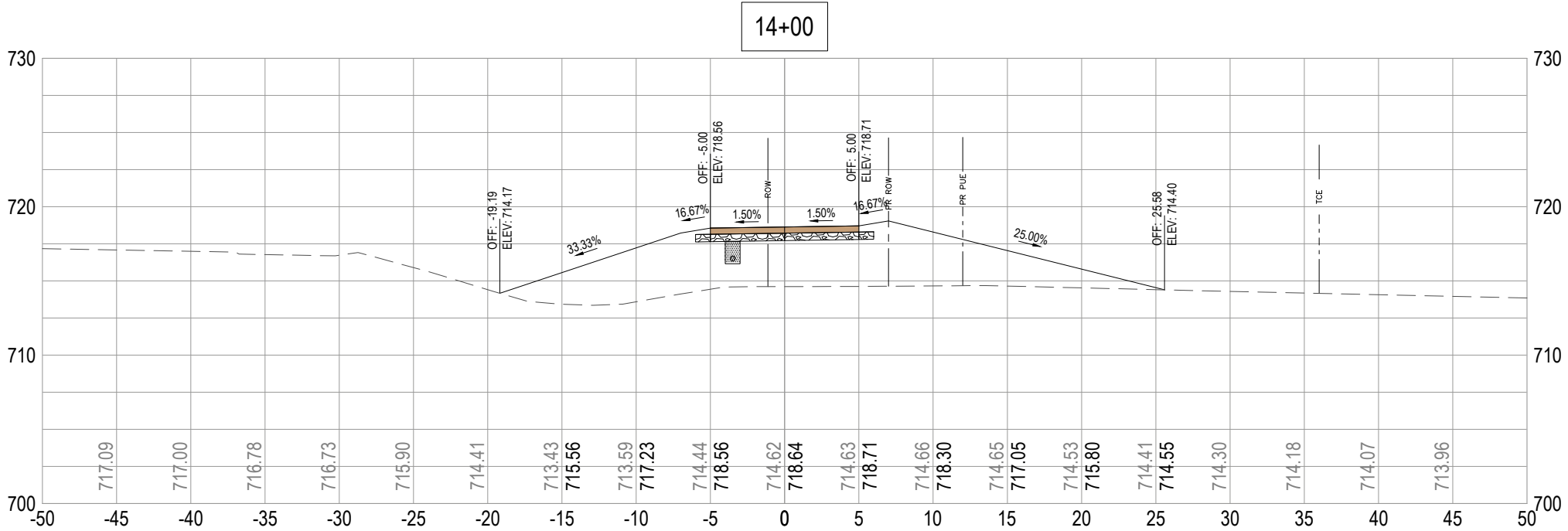


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CROSS SECTIONS






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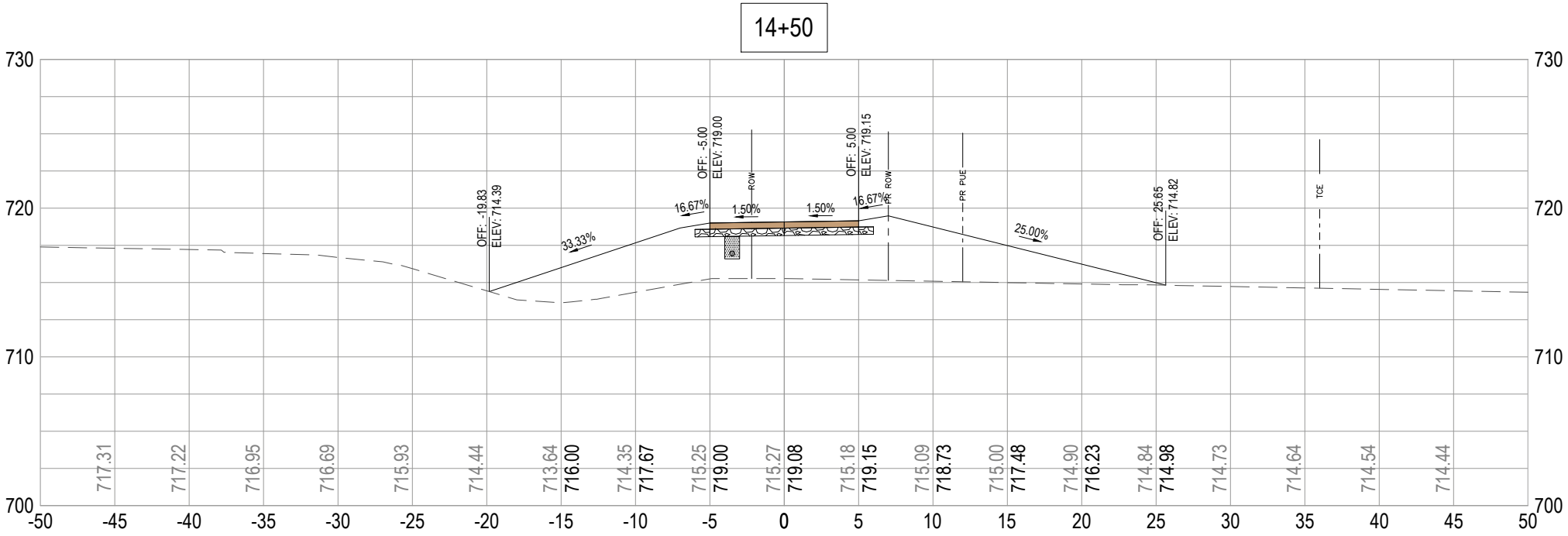
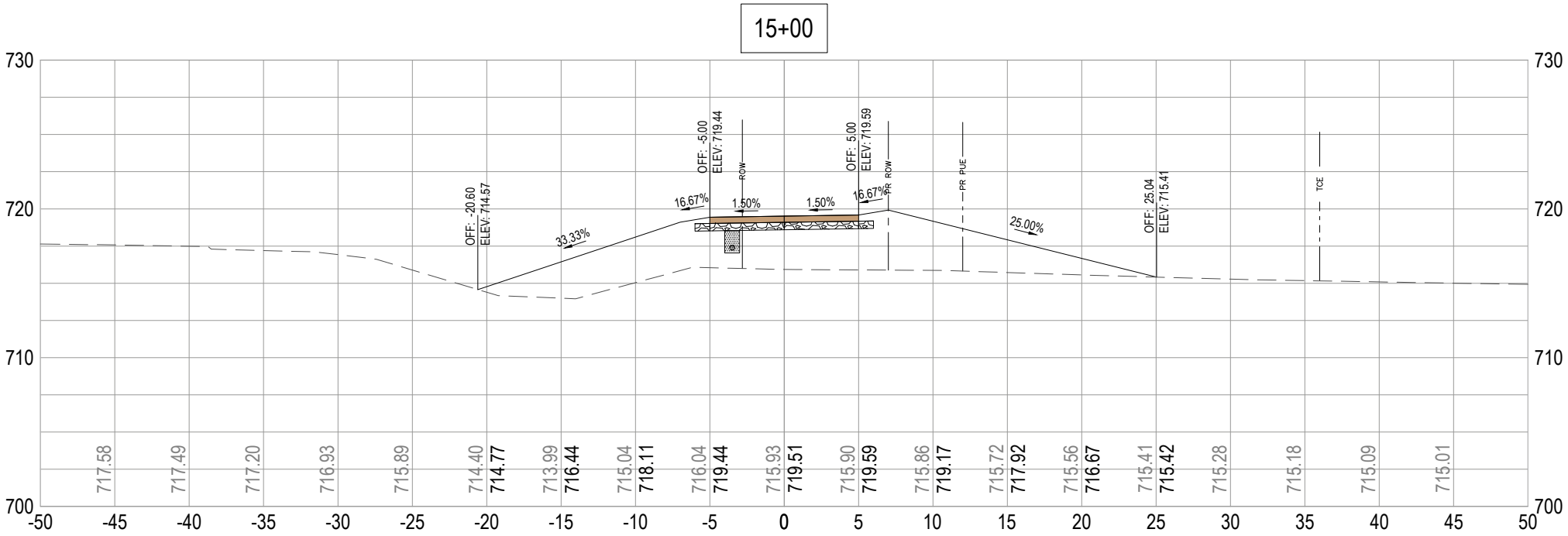
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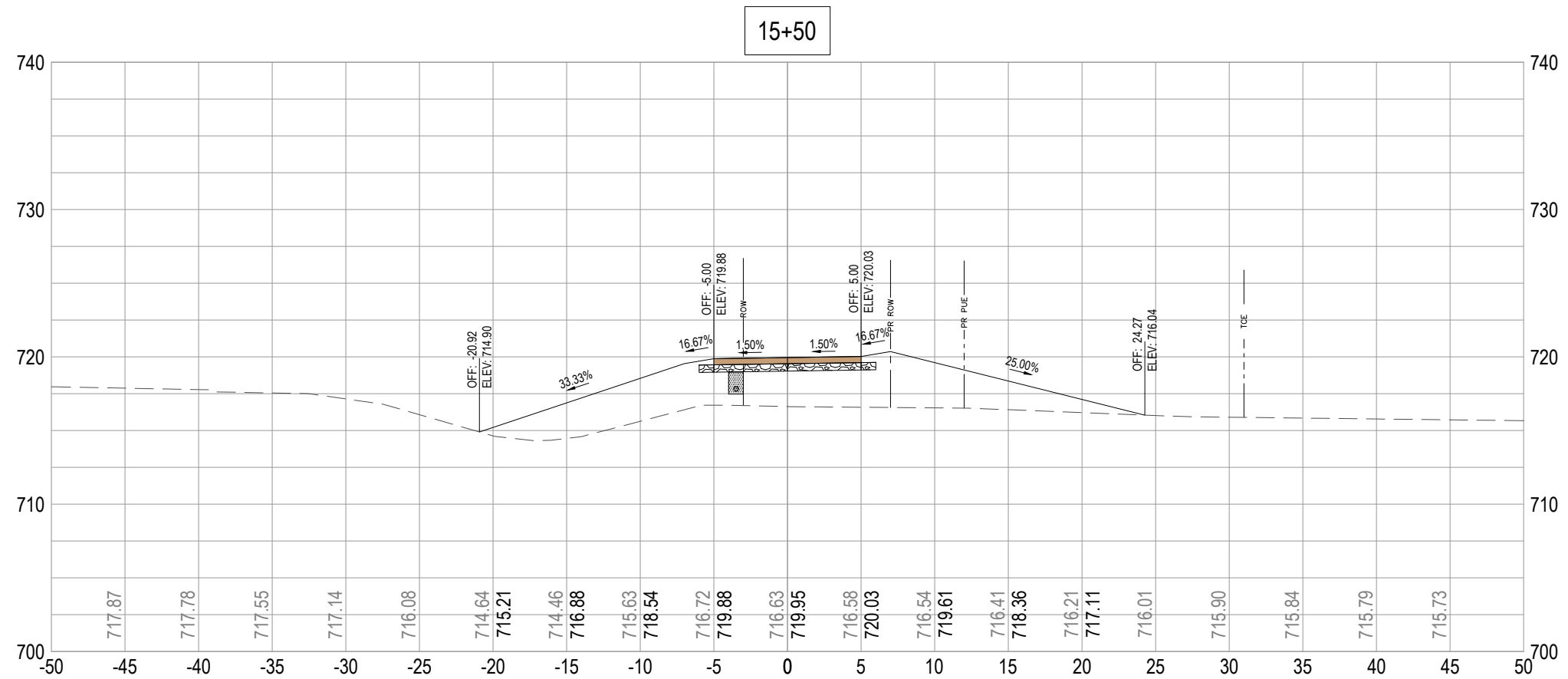
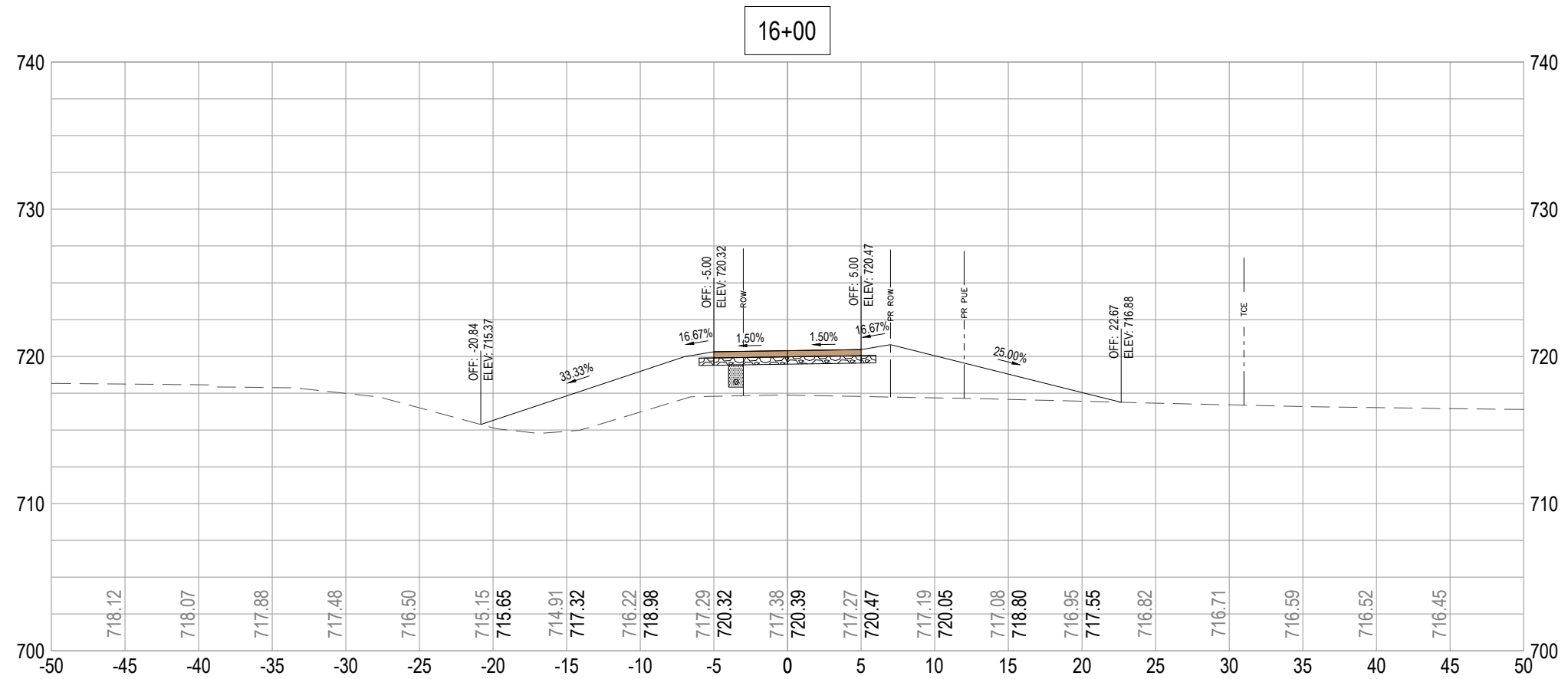
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ENGLISH	IOWA DOT	DESIGN TEAM HDR ENGINEERING	CITY OF BETTENDORF
SCOTT COUNTY	PROJECT NUMBER TAP-T-0587(646)--8V-82 PW 0591 HDR 10375245	SHEET NUMBER W.5	PLOTTED 13-Mar-26



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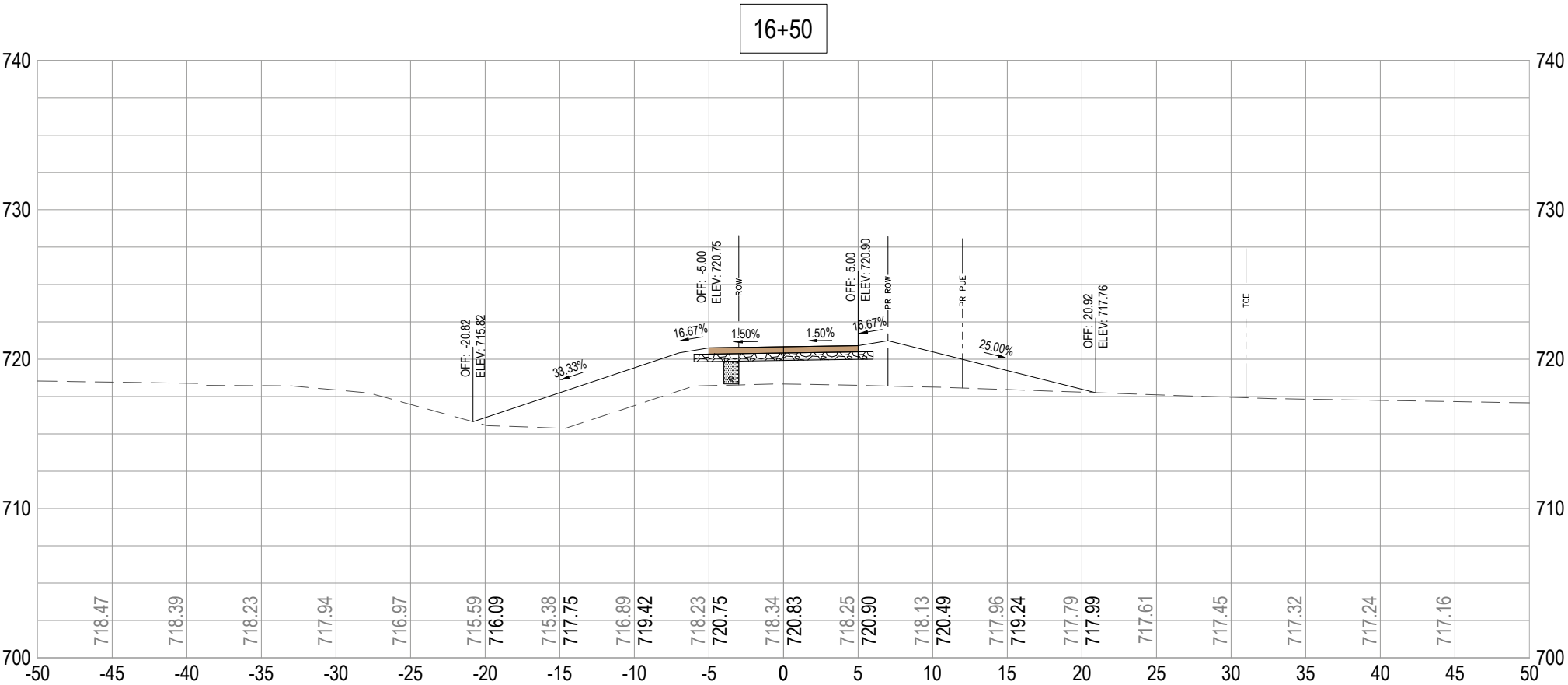
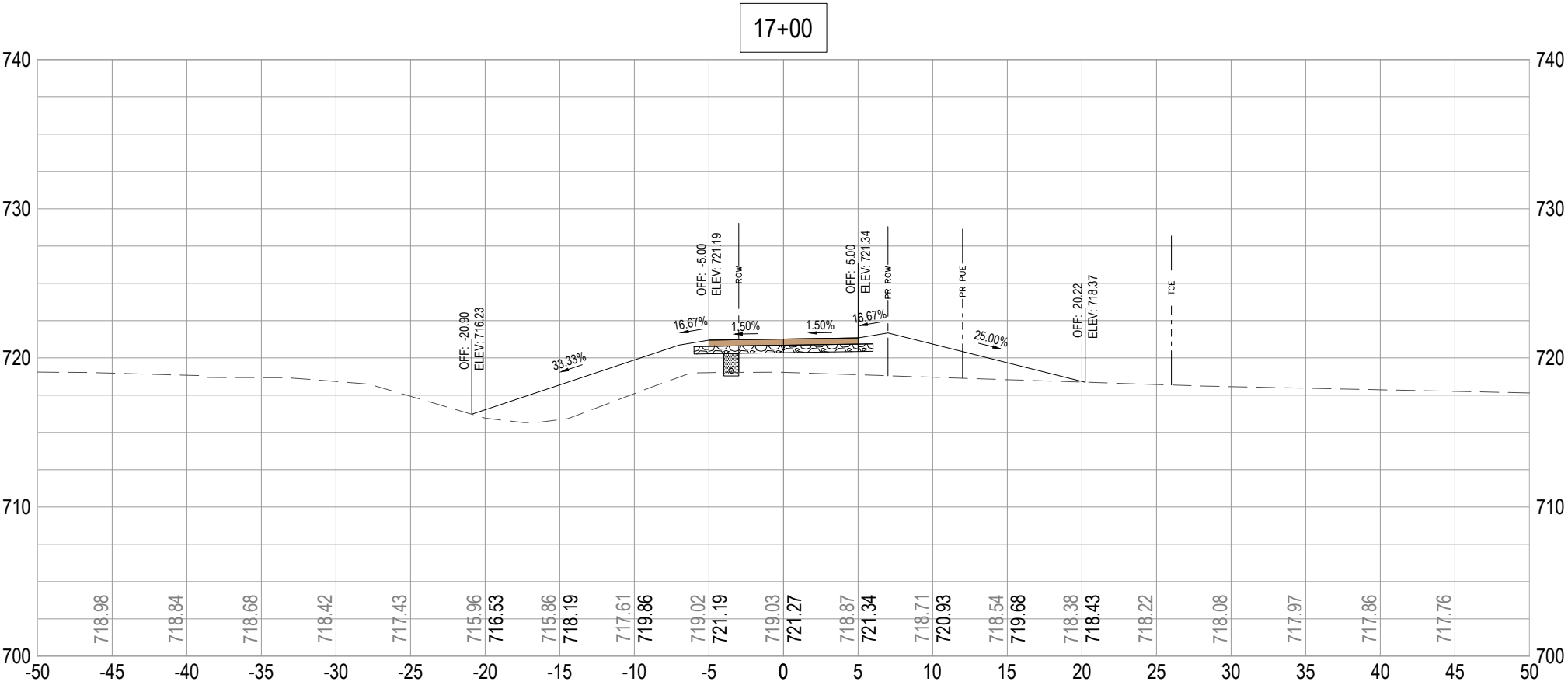


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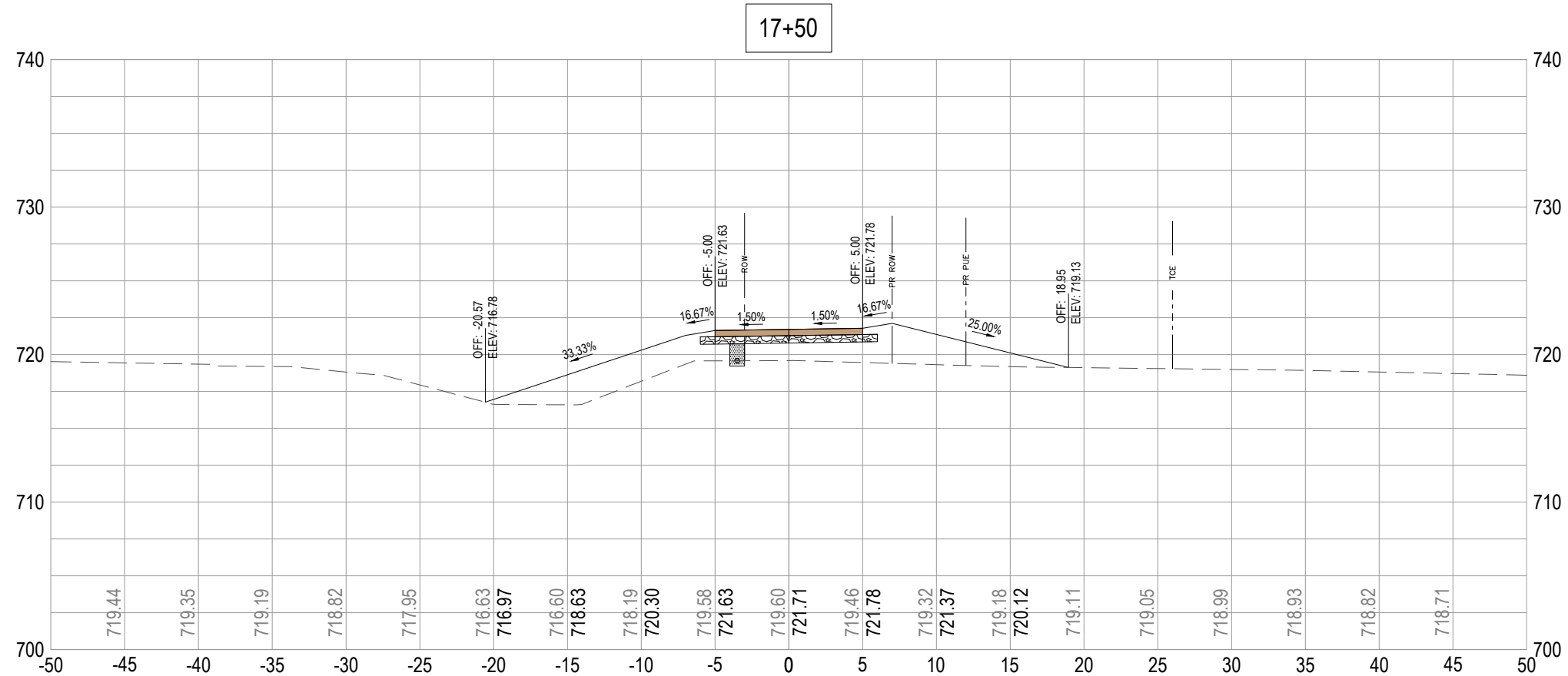
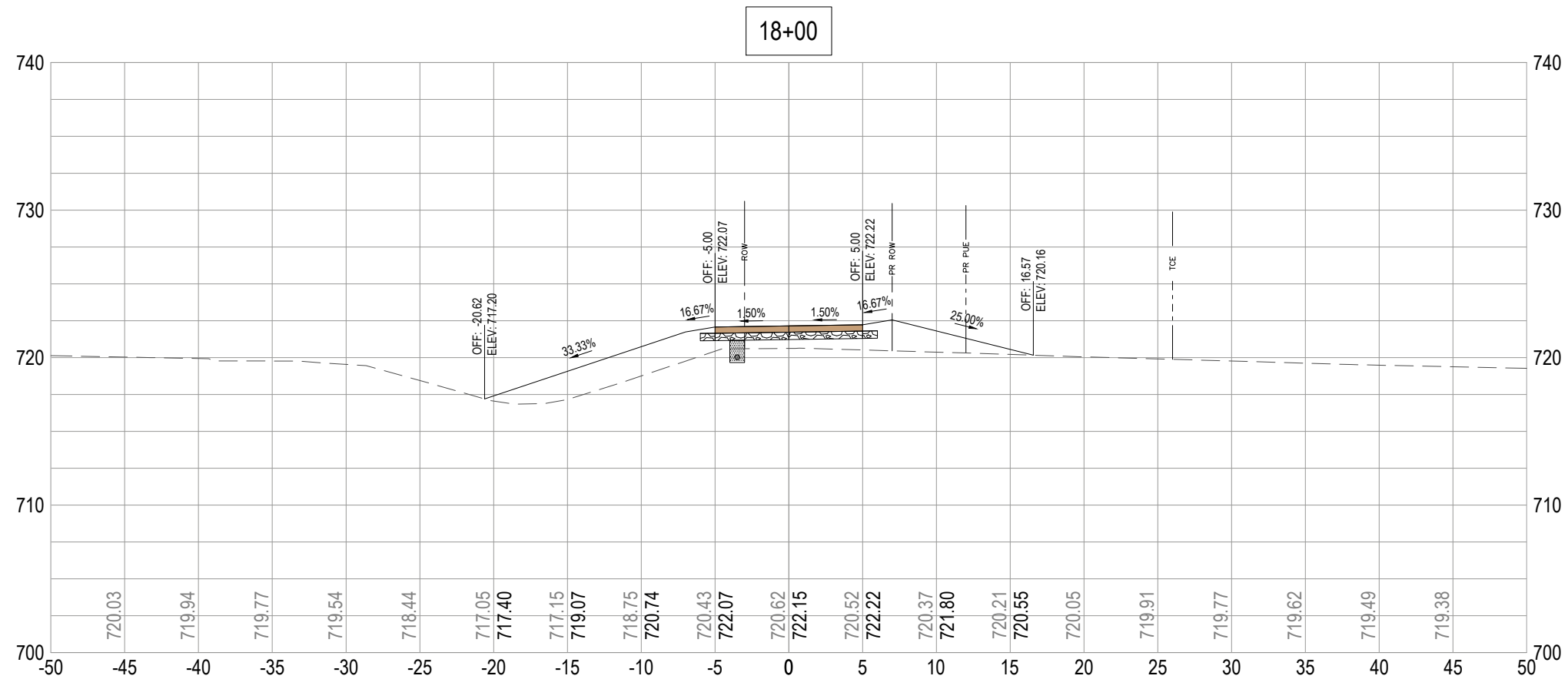
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EXISTING GRADE	___ _ _ _



CROSS SECTIONS



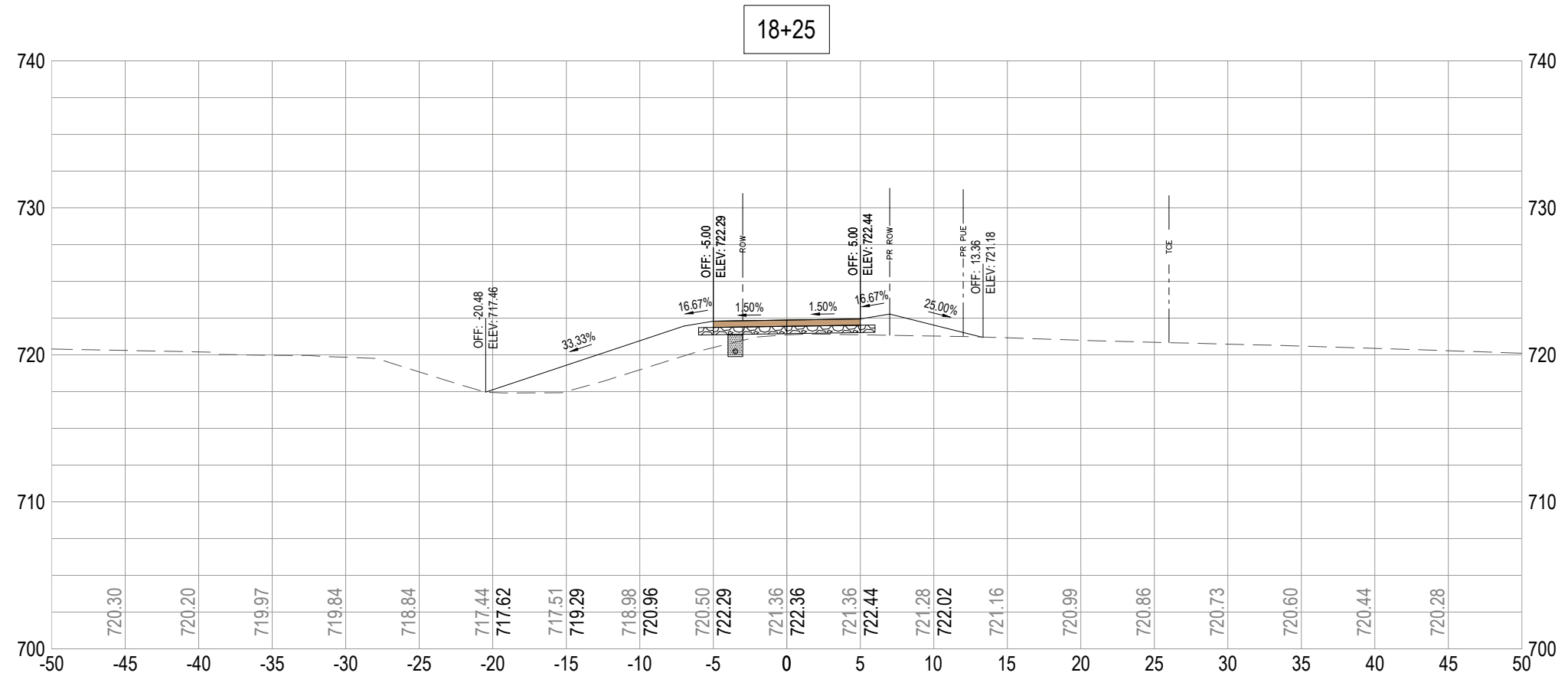
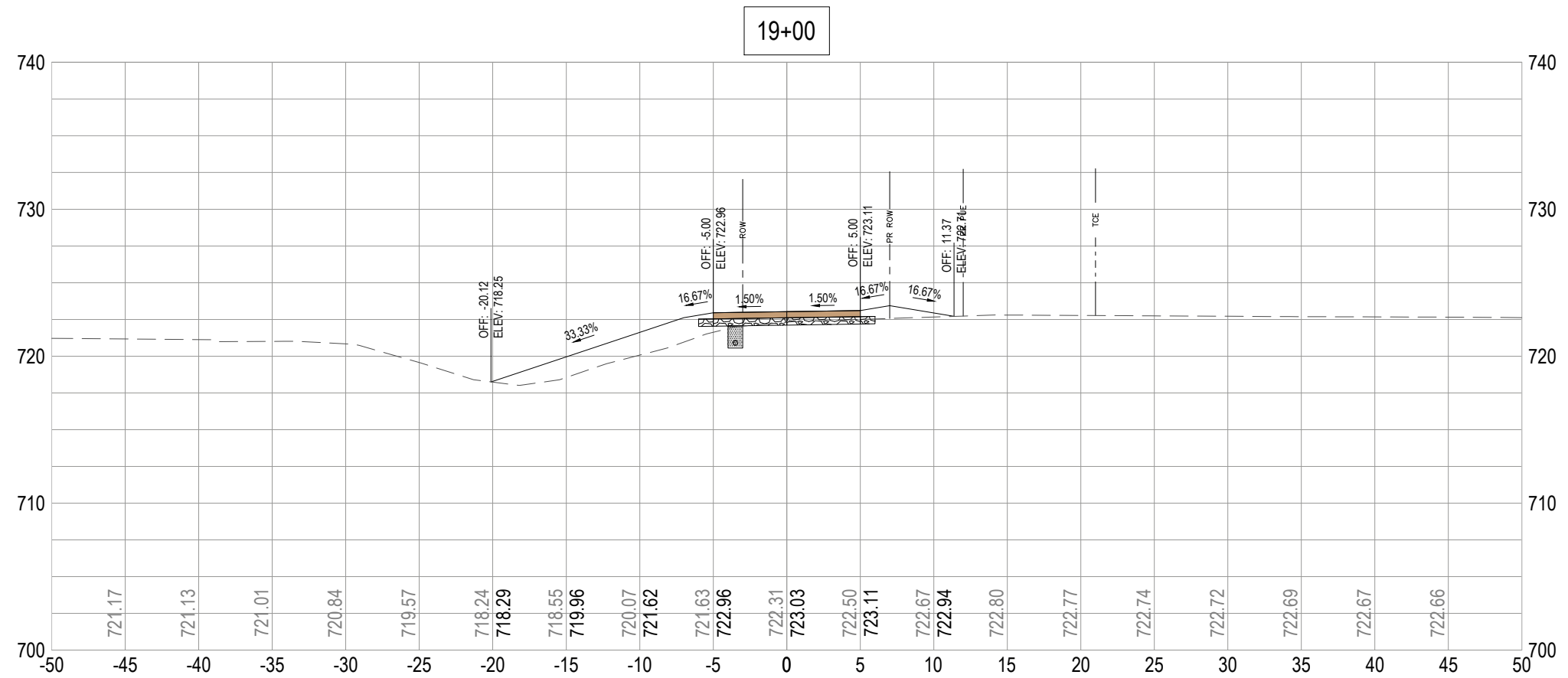
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EXISTING GRADE	






CROSS SECTIONS



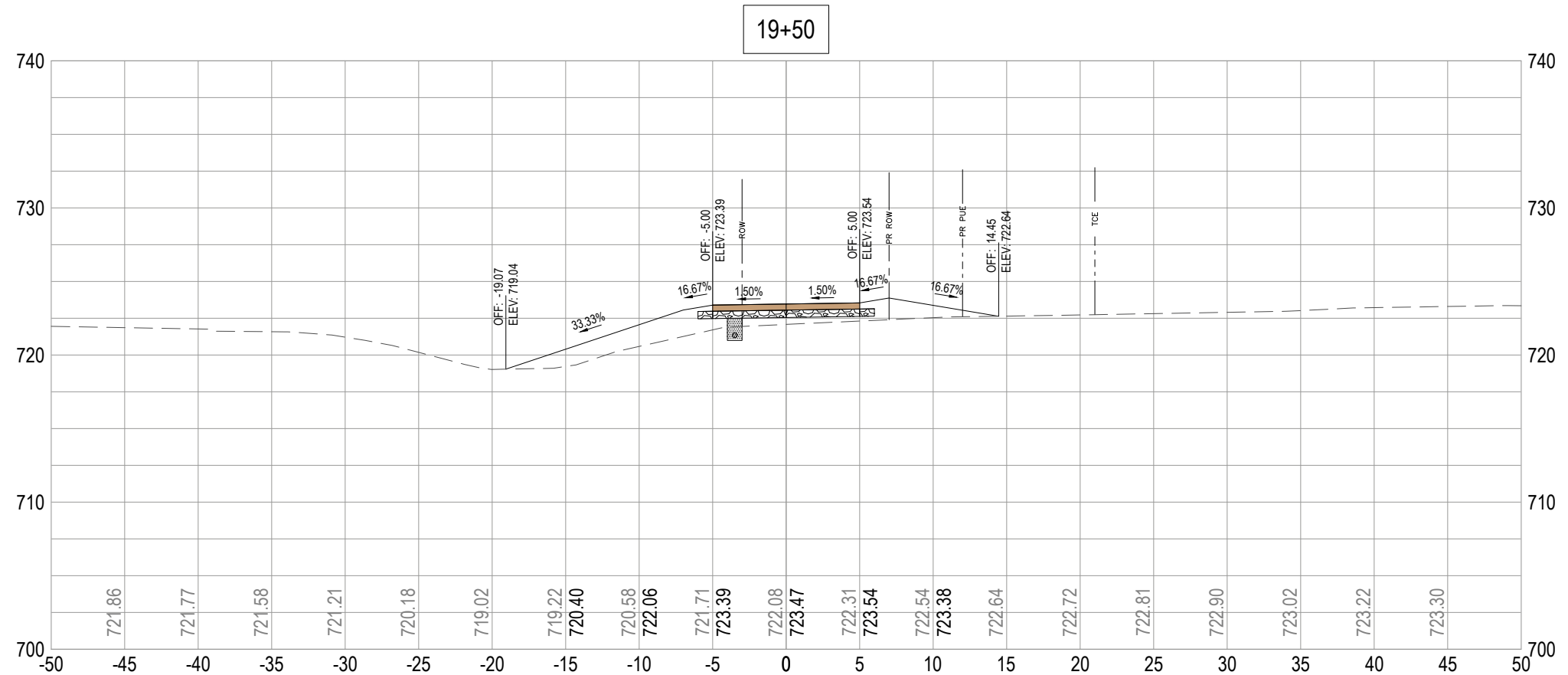
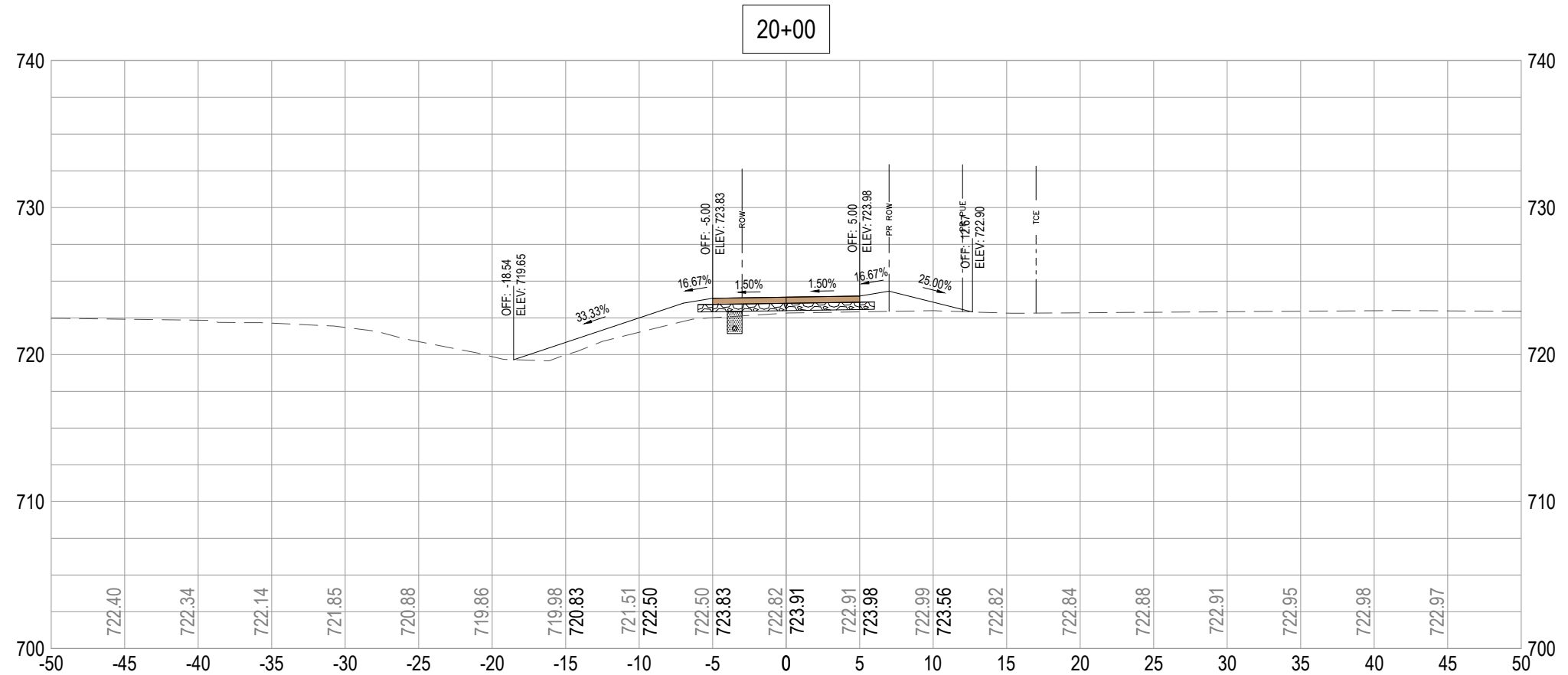
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PROPOSED GRADE - BY OTHERS	-----
EXISTING GRADE	___ _ _ _






CROSS SECTIONS



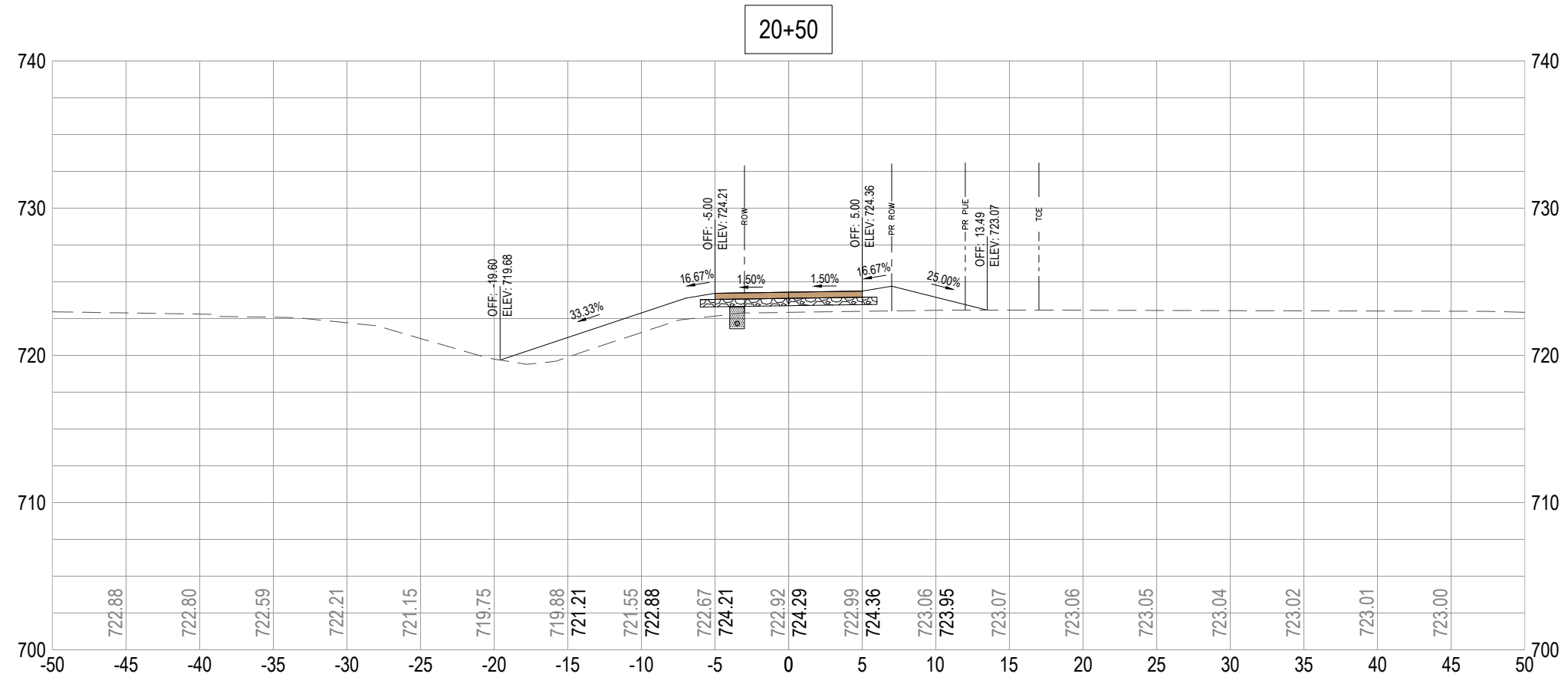
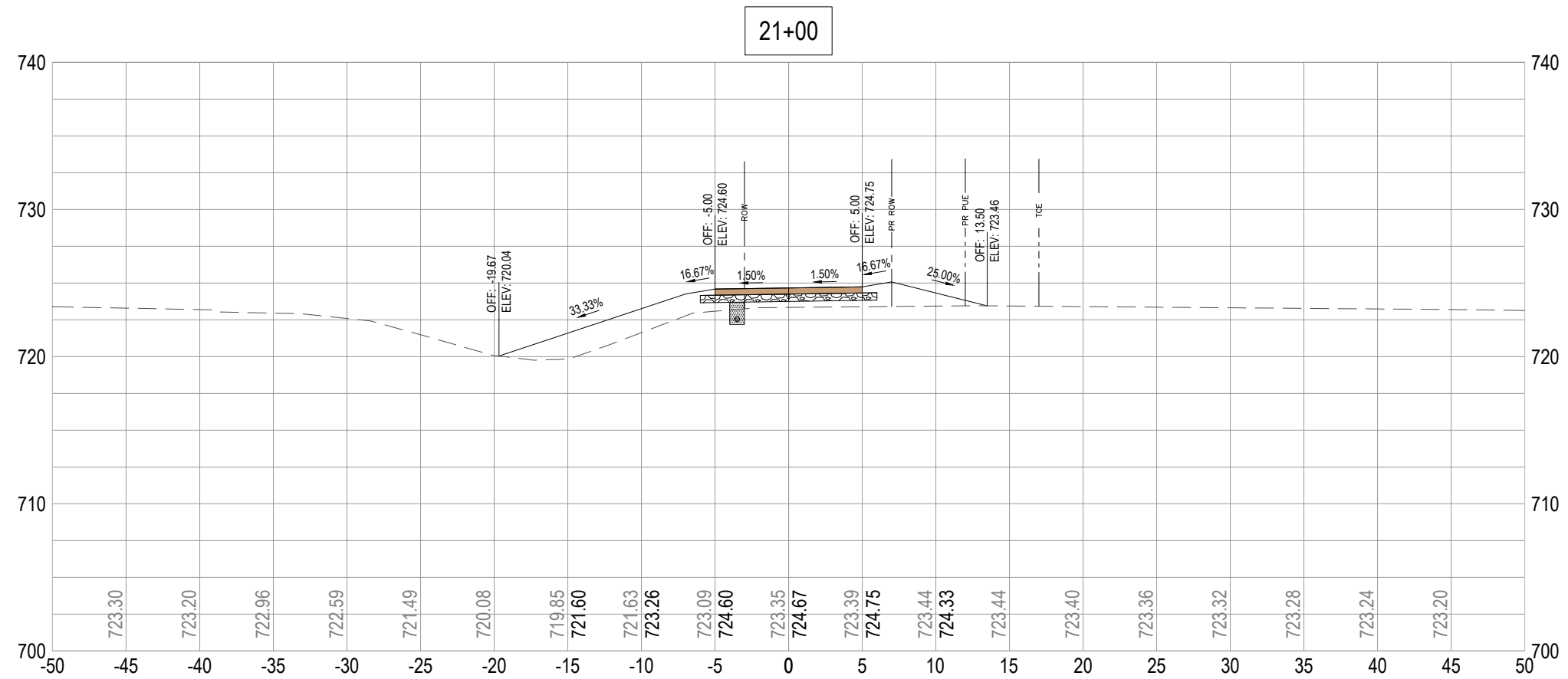
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EXISTING GRADE	






CROSS SECTIONS



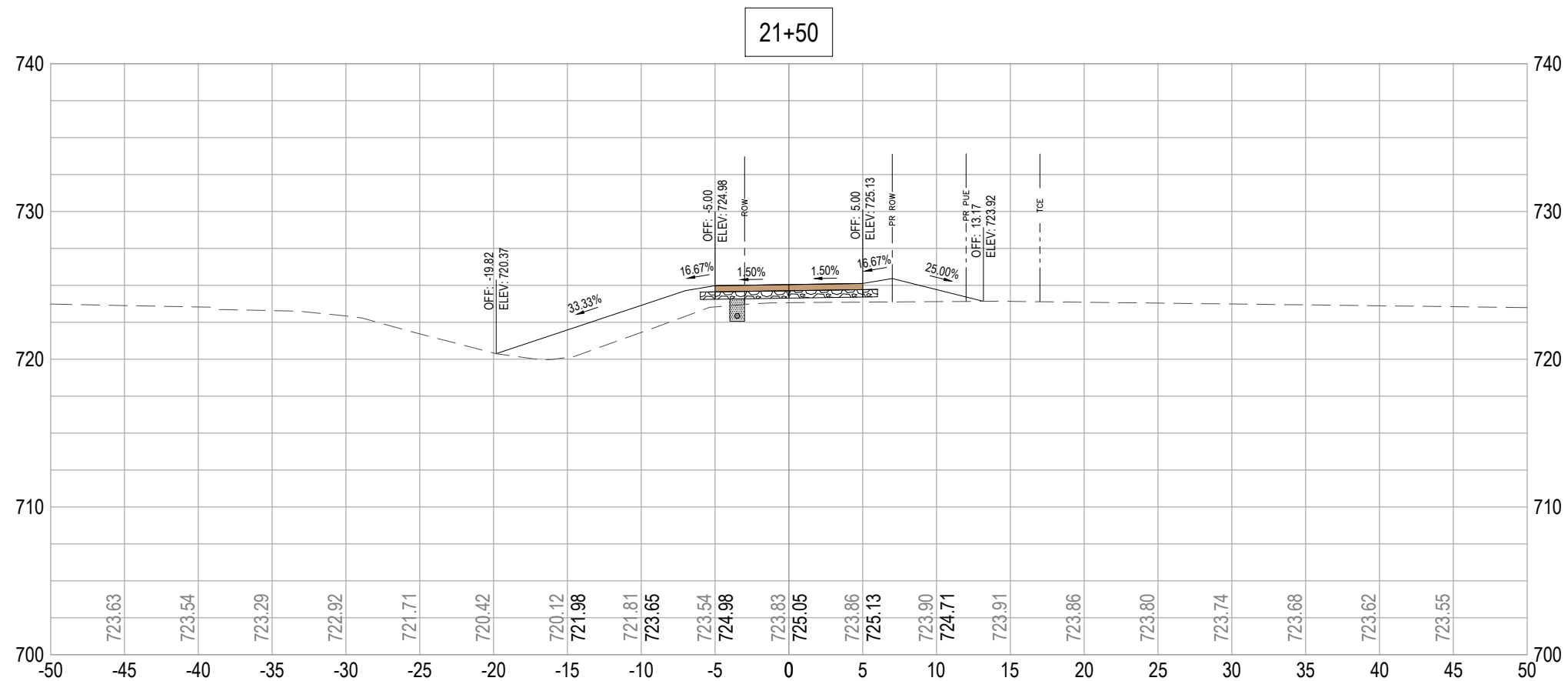
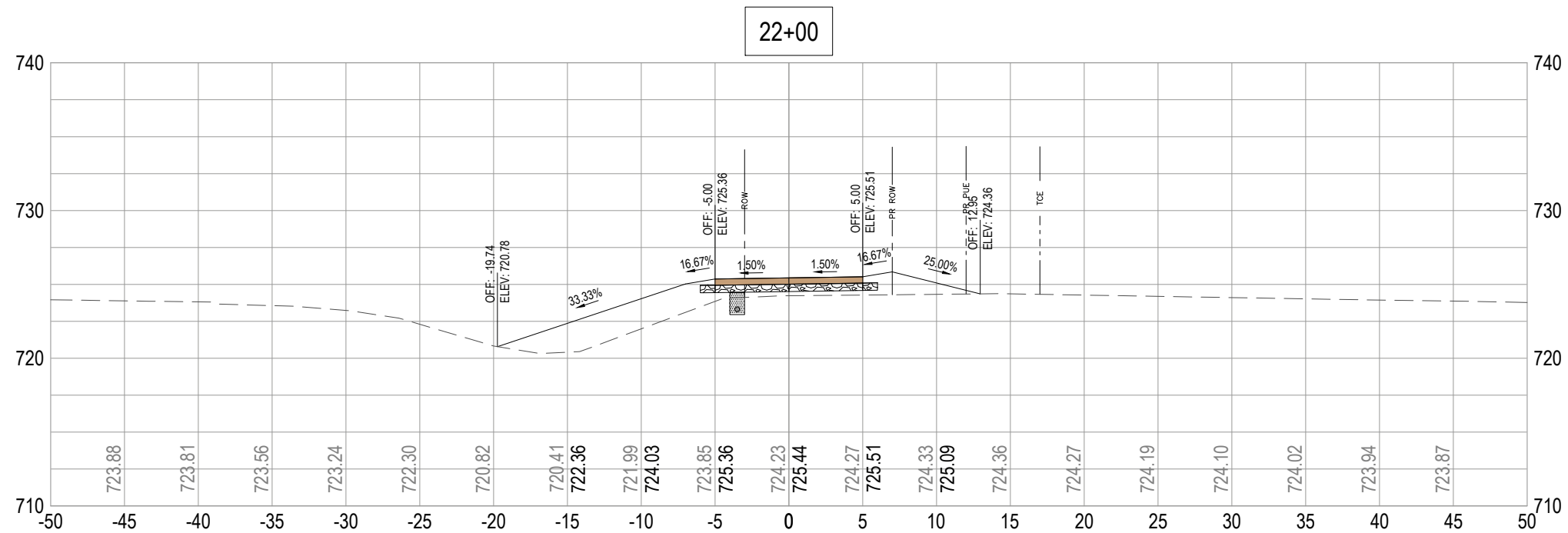
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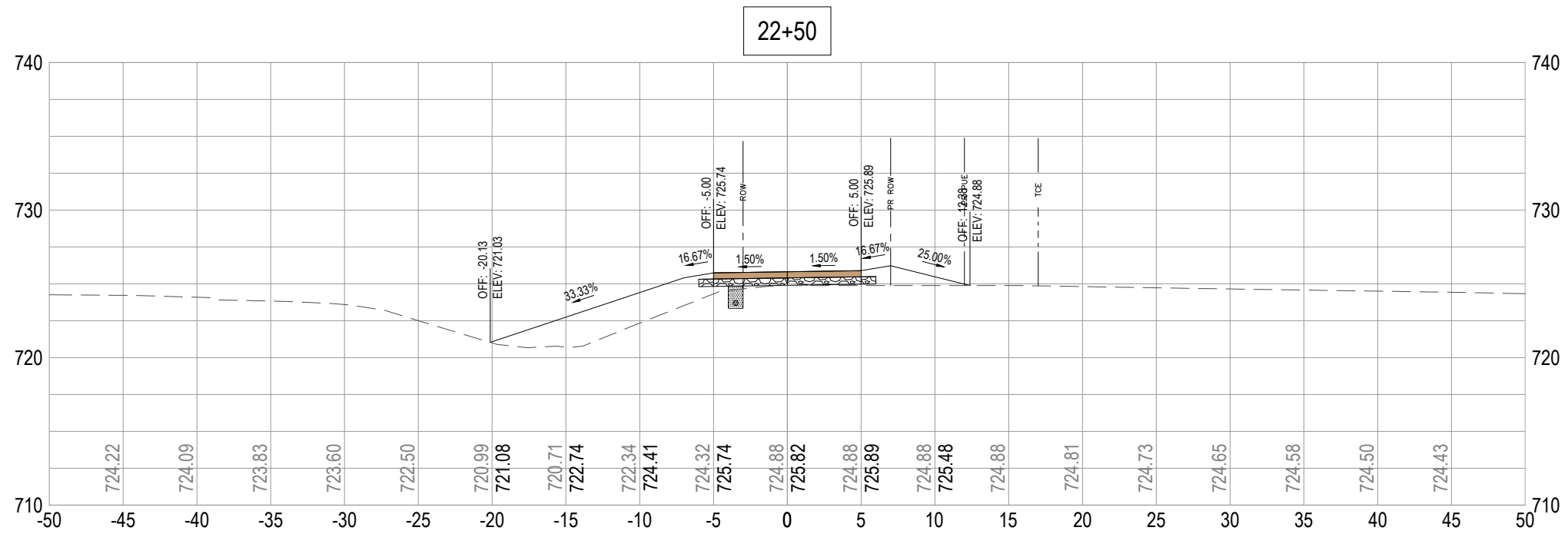
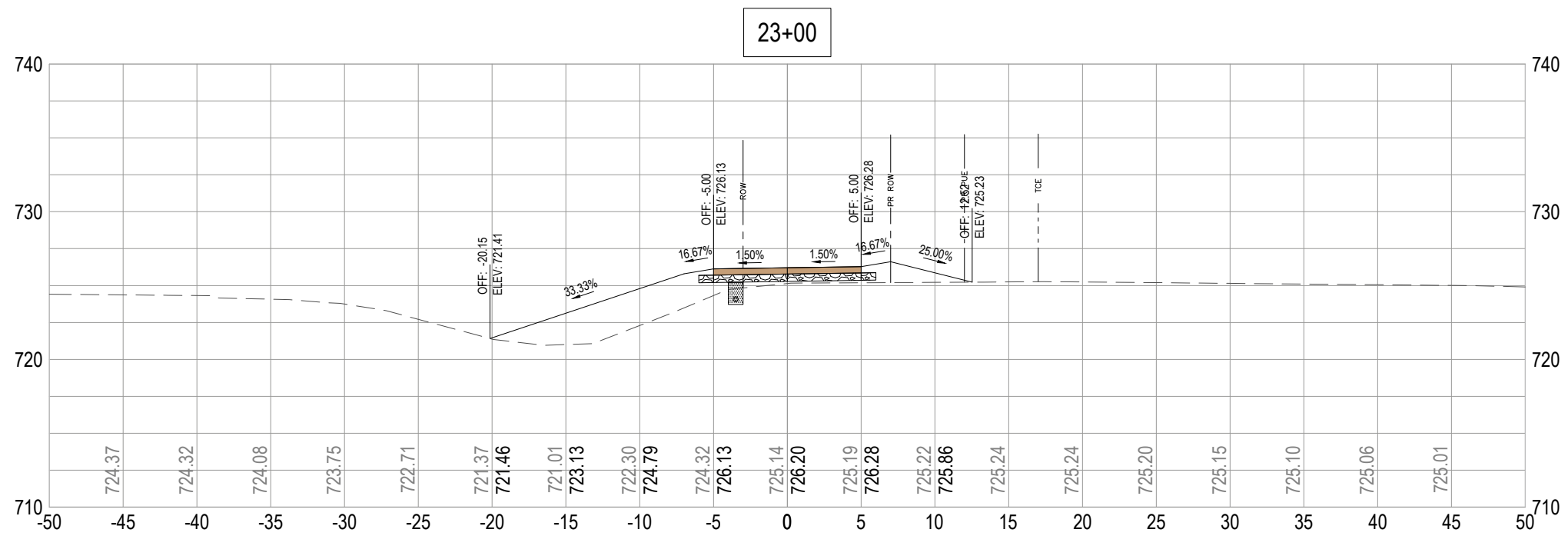
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CROSS SECTIONS



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PROPOSED GRADE - BY OTHERS	-----
EXISTING GRADE	___ _ _ _






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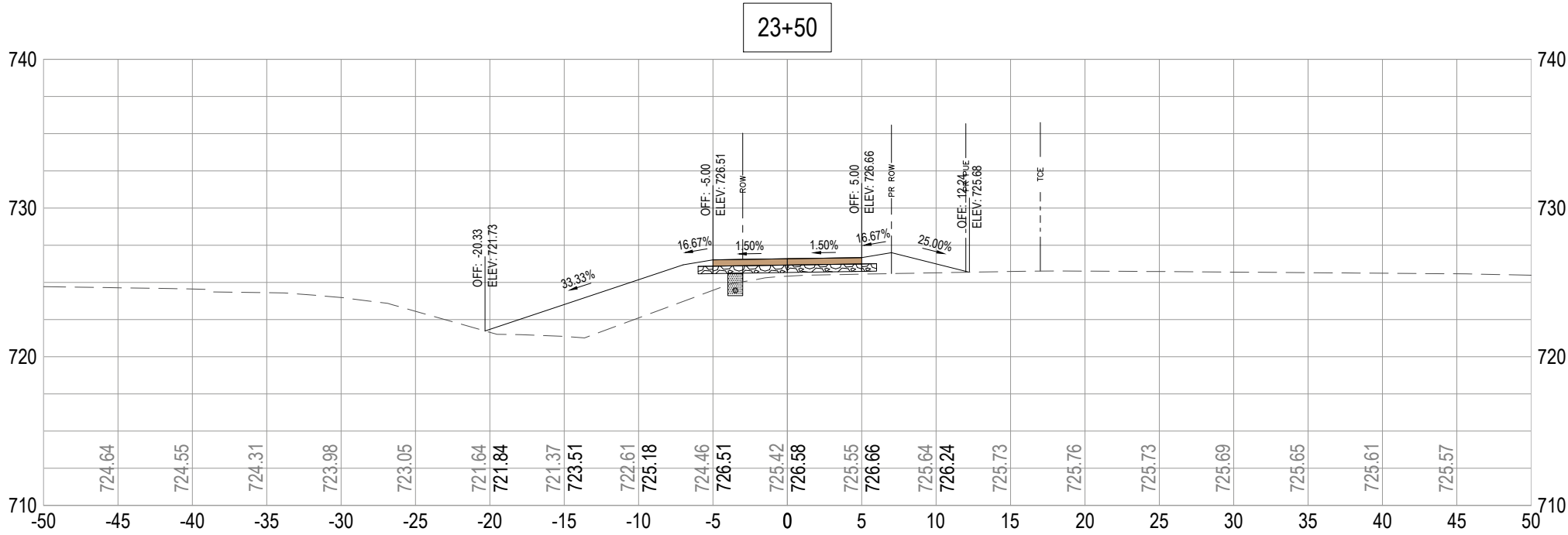
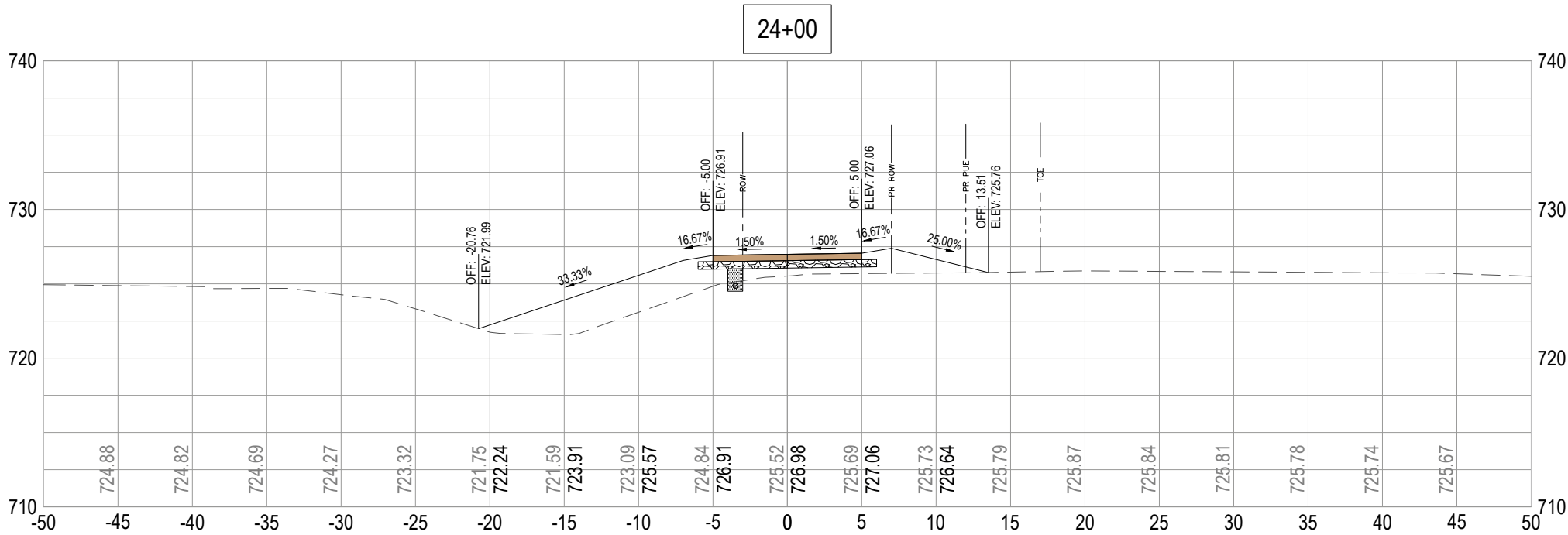


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PROPOSED GRADE	
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EXISTING GRADE	

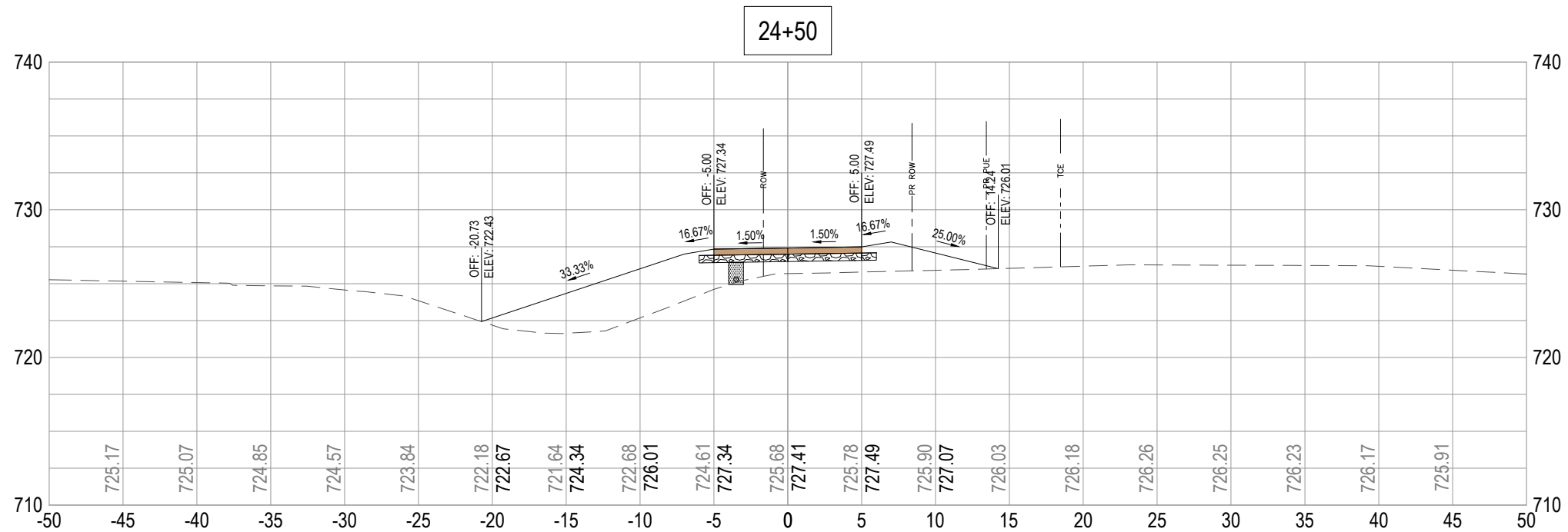
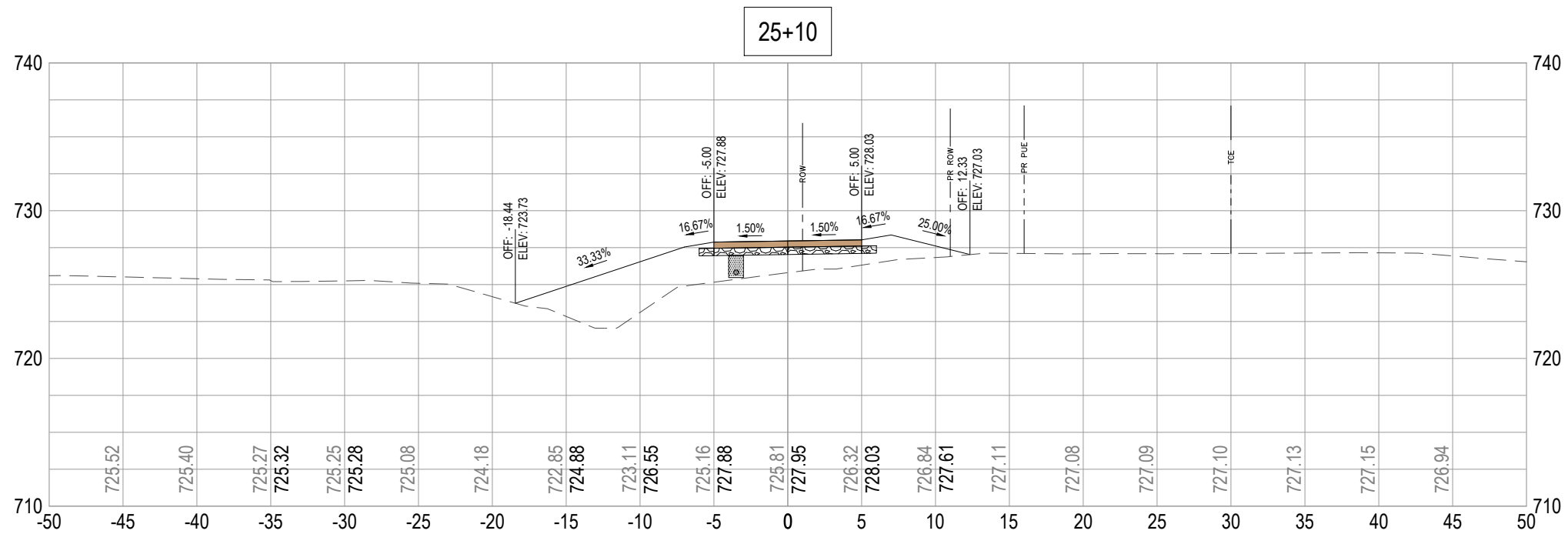
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EXISTING GRADE	

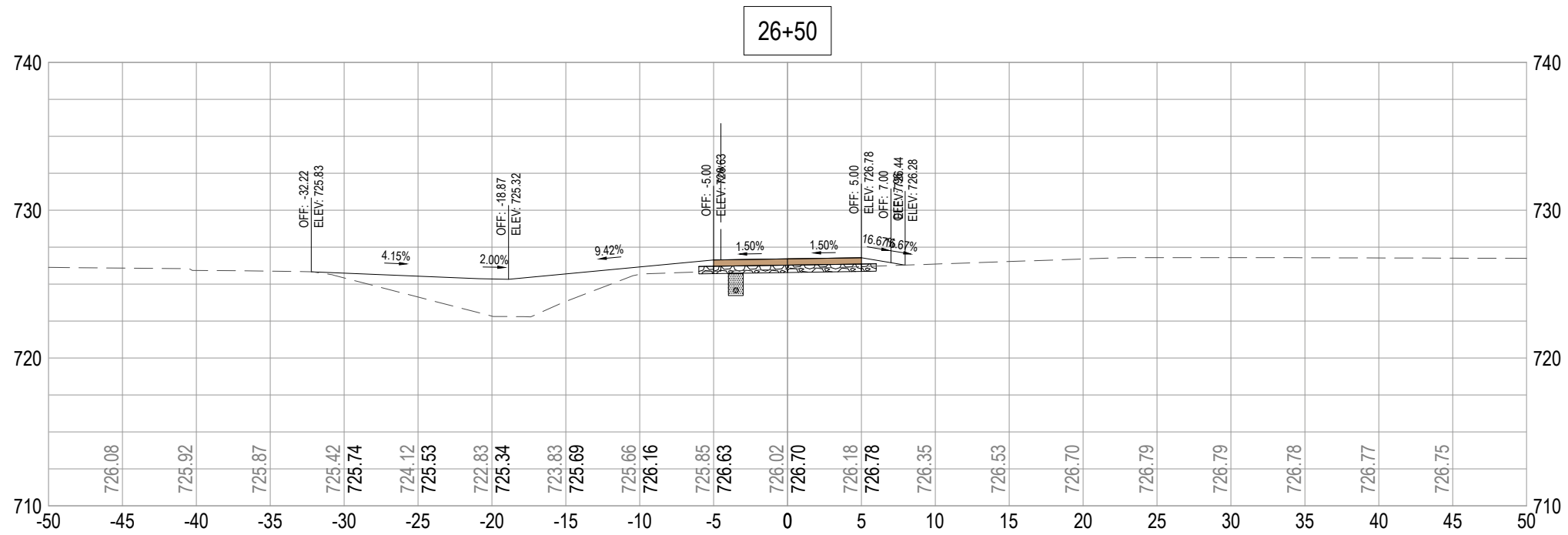
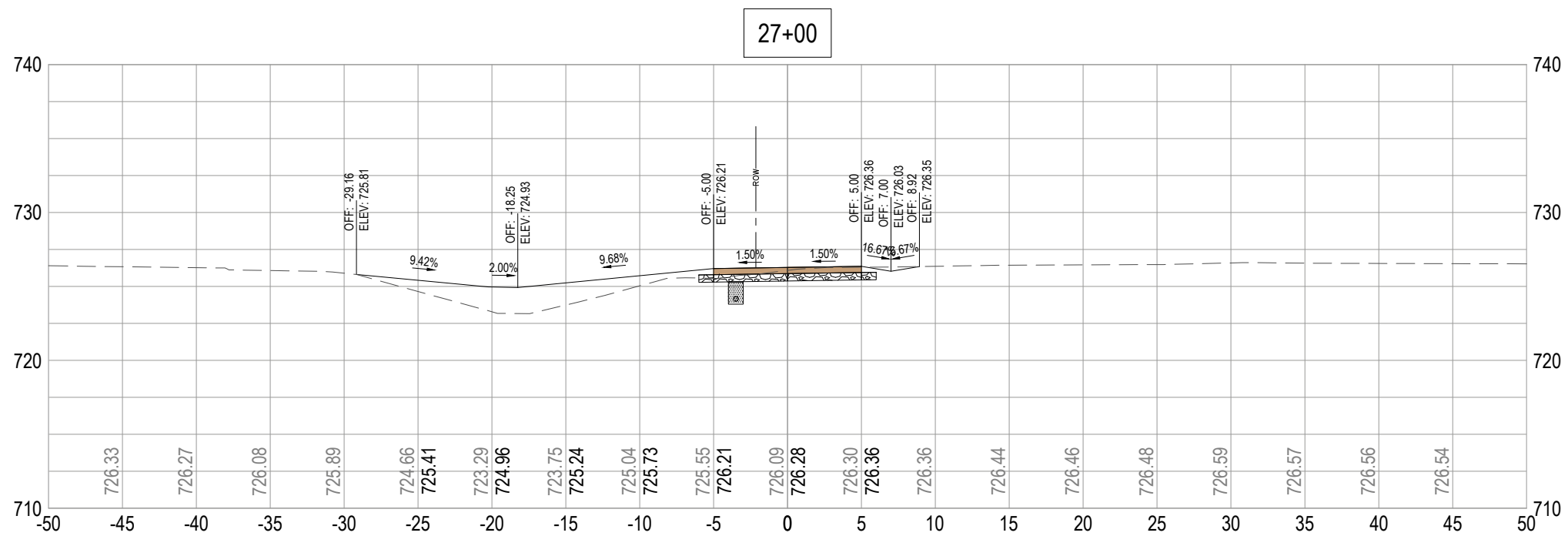







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PROPOSED GRADE	
PROPOSED GRADE - BY OTHERS	
EXISTING GRADE	






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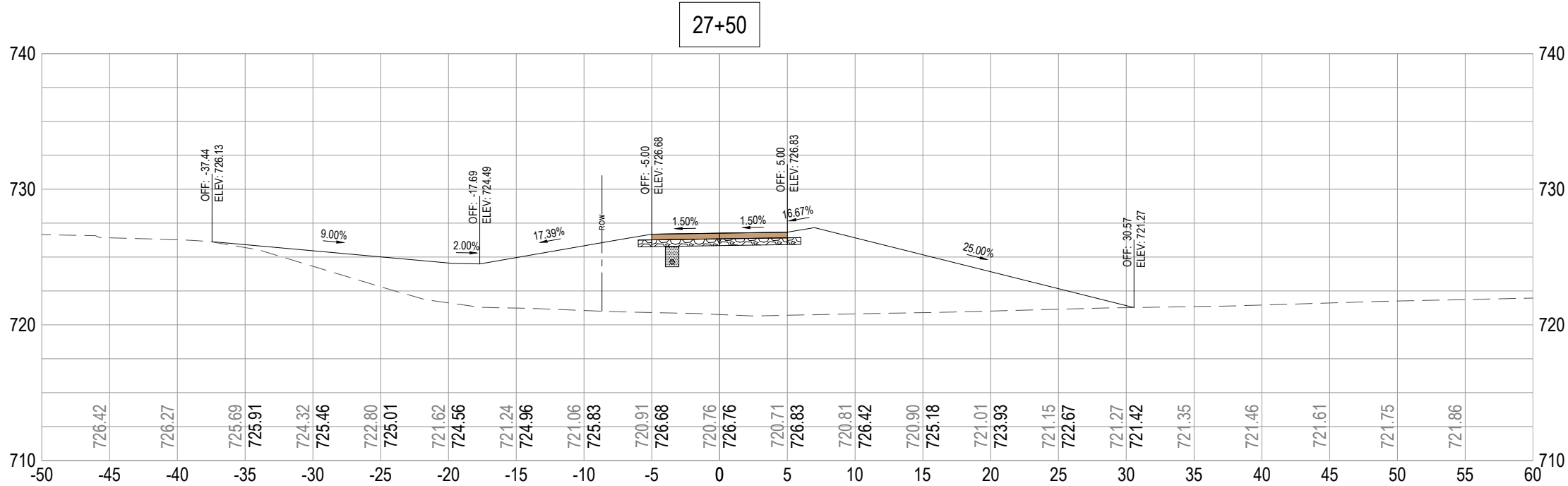
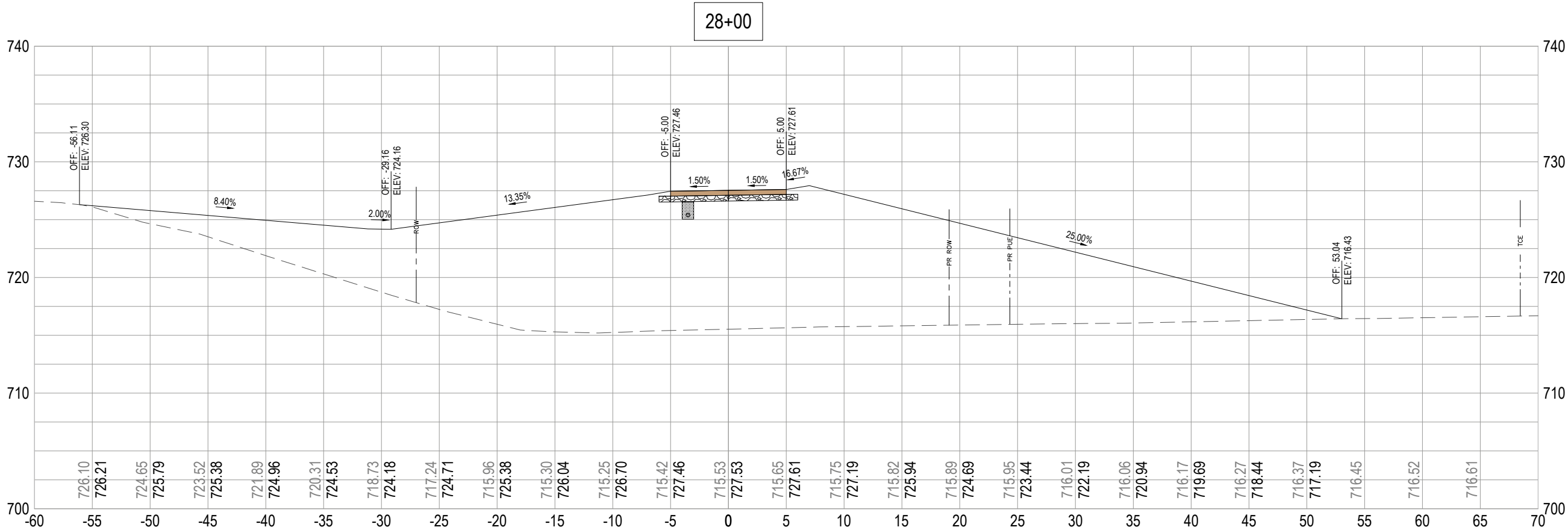
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CROSS SECTIONS

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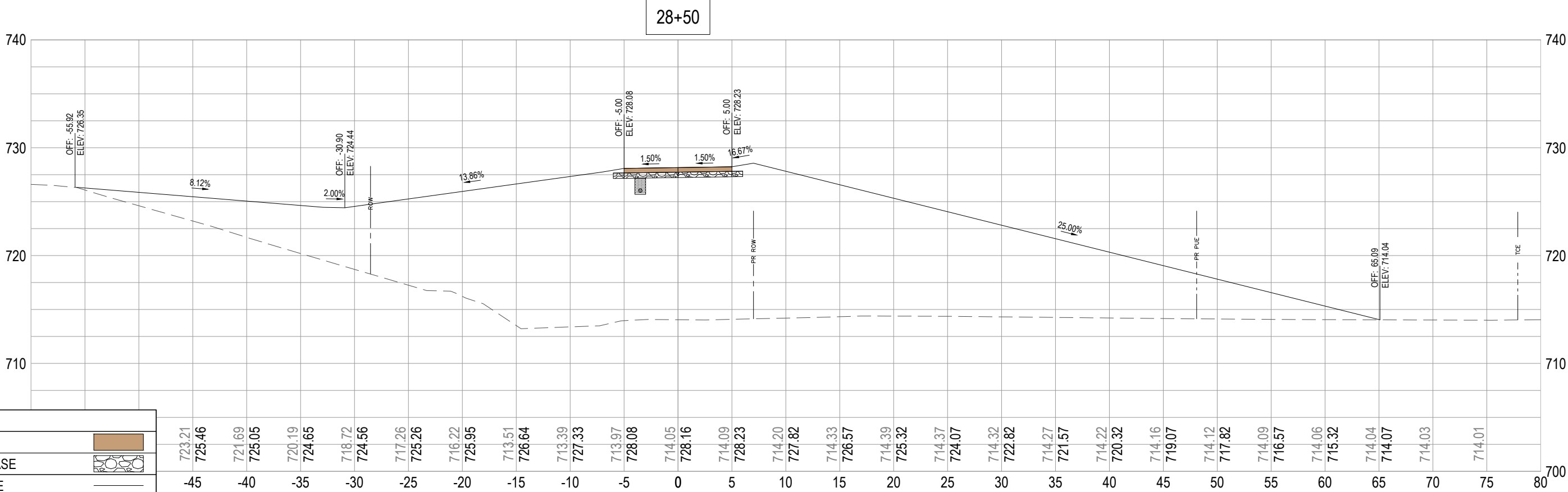
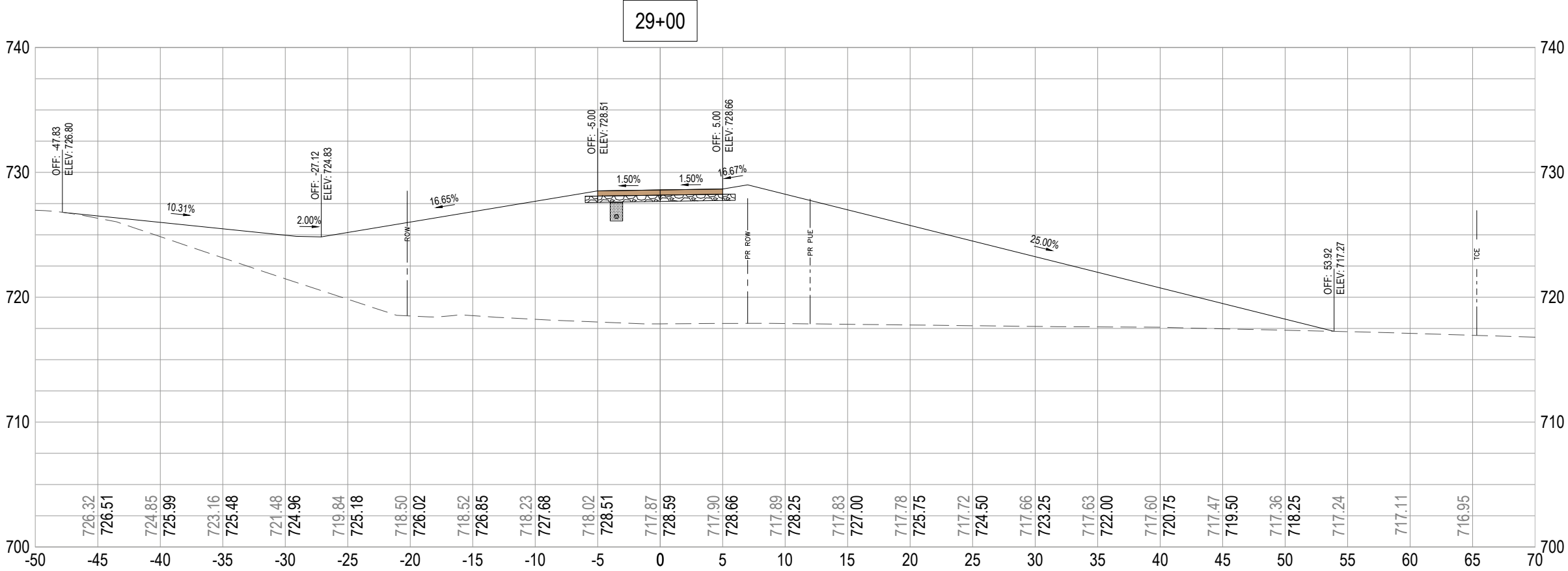
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CROSS SECTIONS

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CROSS SECTIONS

ENGLISH IOWA DOT DESIGN TEAM HDR|ENGINEERING

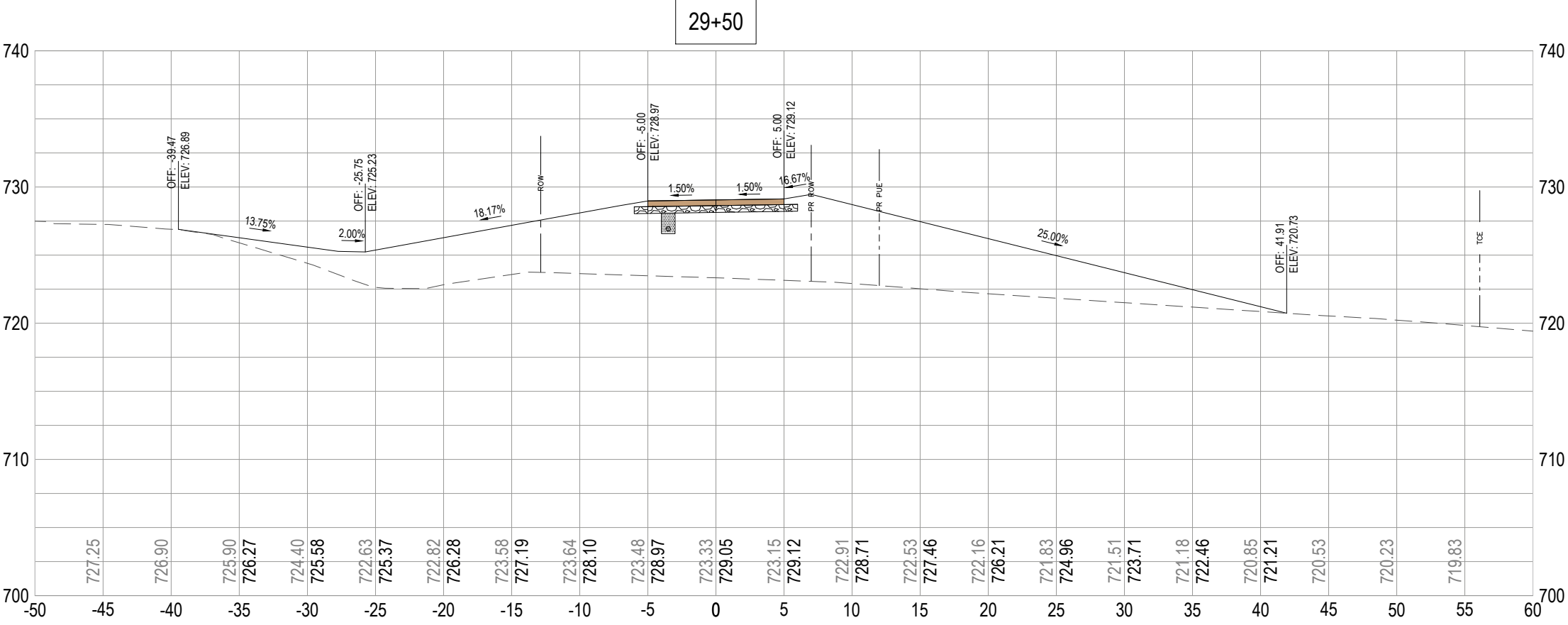
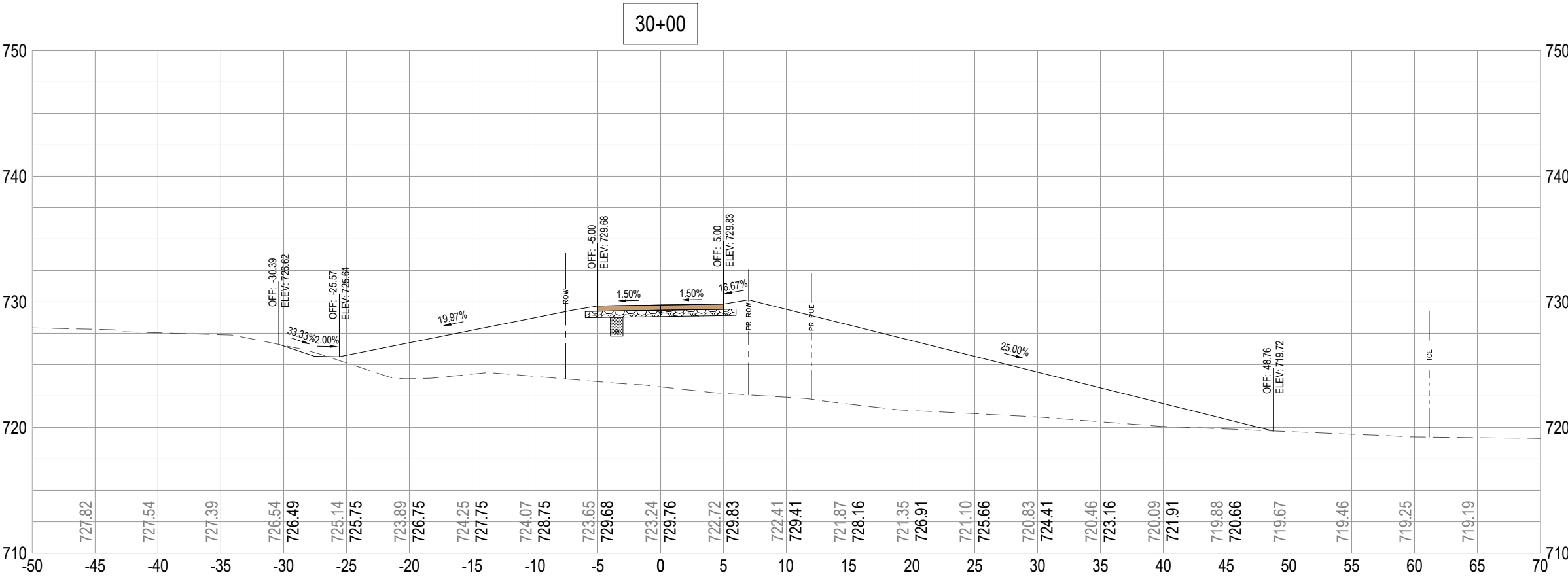
CITY OF BETTENDORF

SCOTT COUNTY

PROJECT NUMBER TAP-T-0587(646)--8V-82 | PW 0591 | HDR 10375245

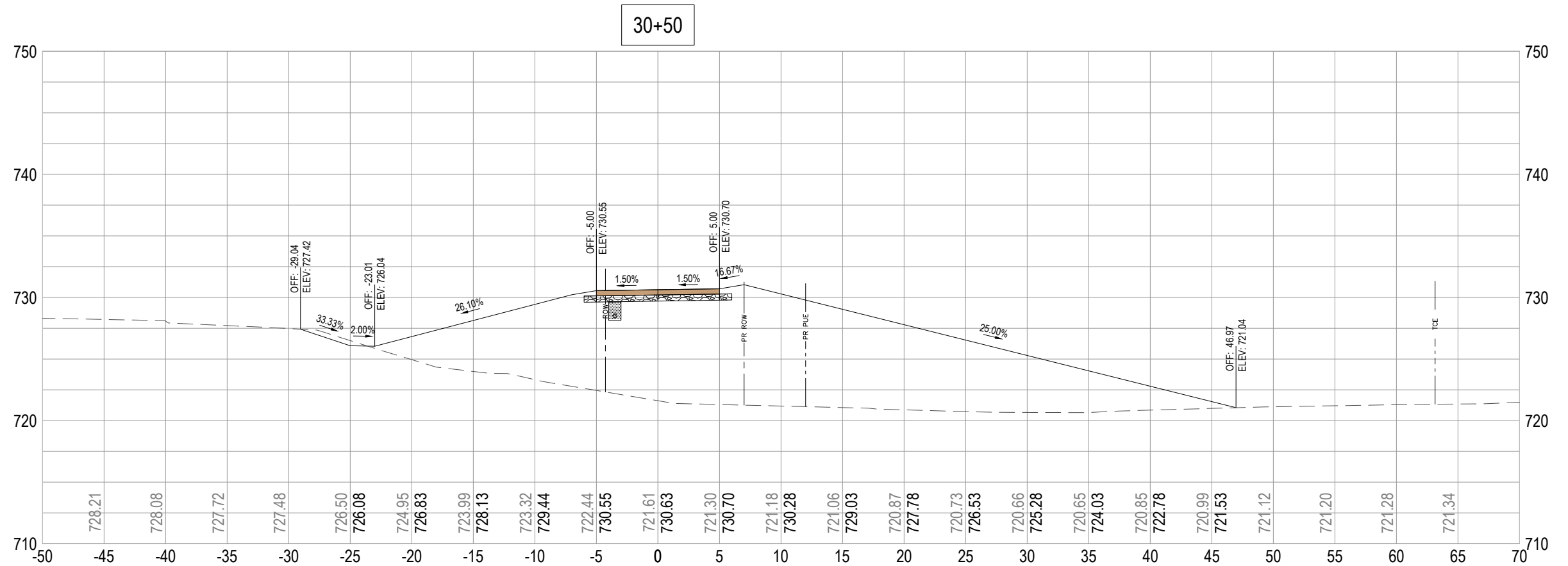
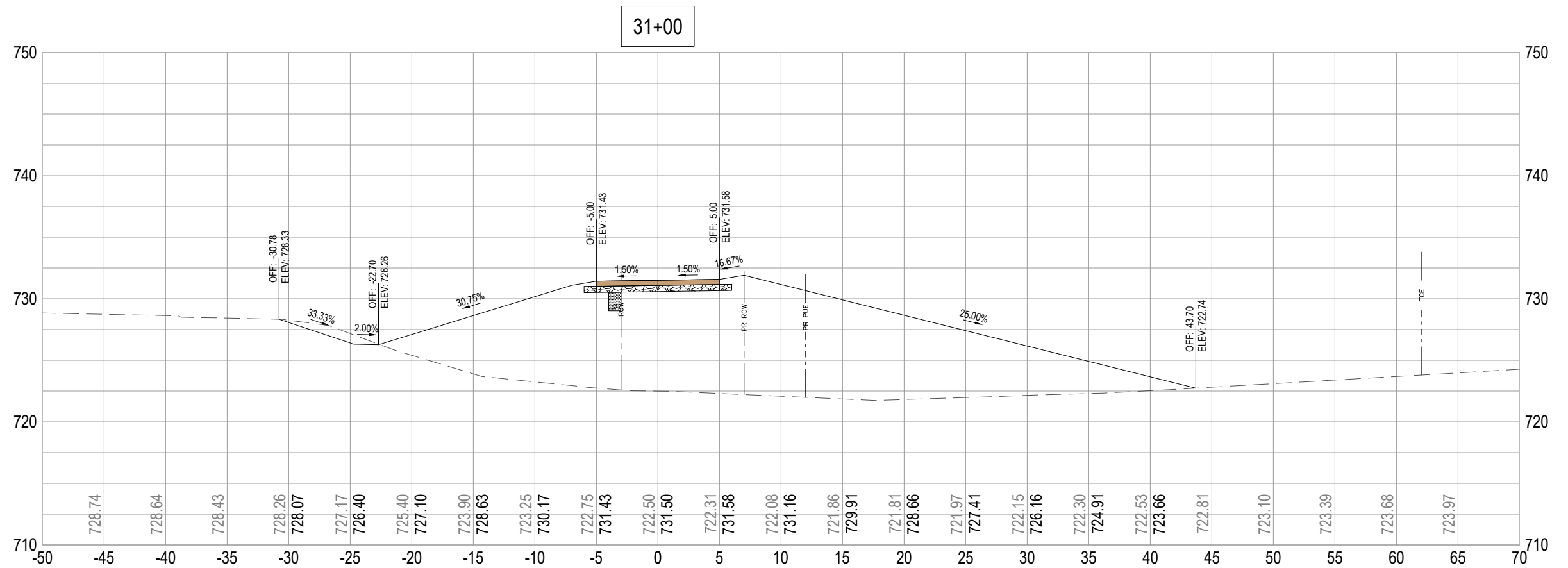
SHEET NUMBER W.20



PLOTTED 13-Mar-26



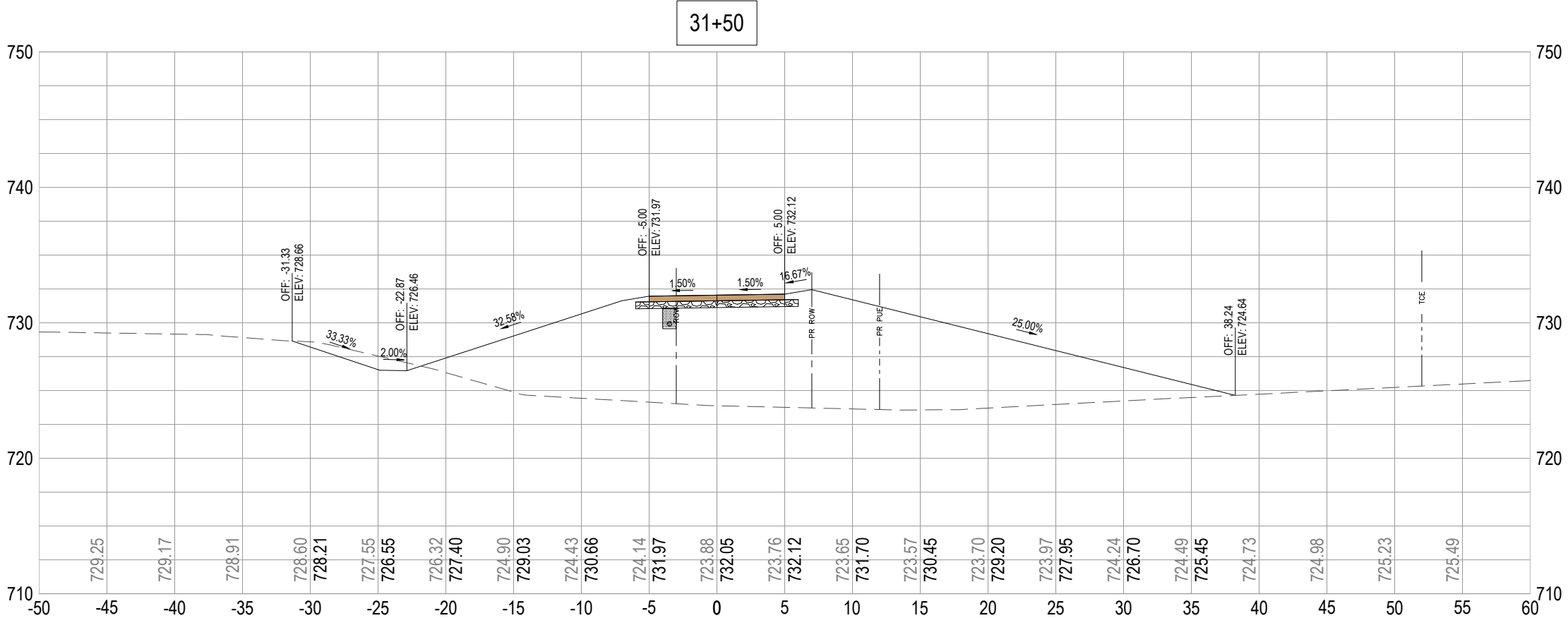
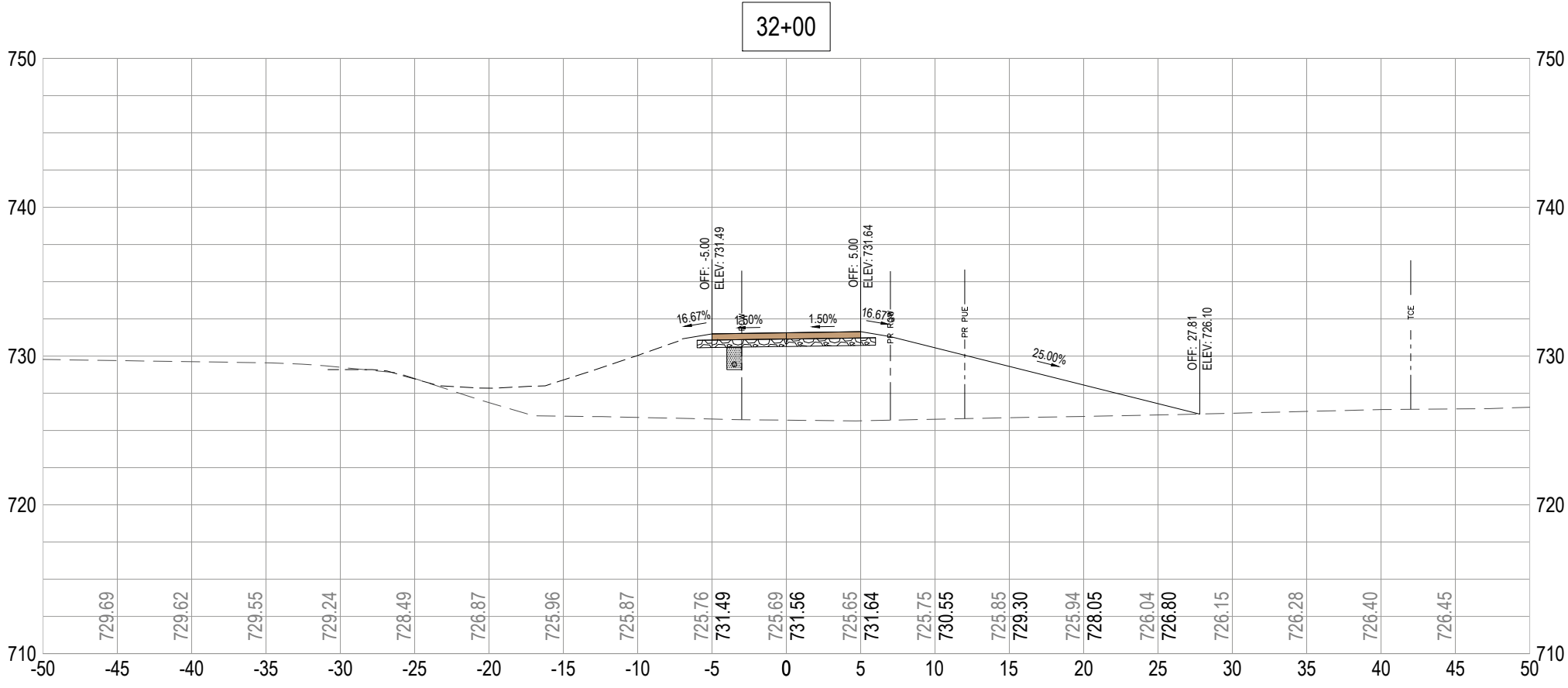
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CROSS SECTIONS



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PROPOSED GRADE - BY OTHERS	-----
EXISTING GRADE	___ _ _ _






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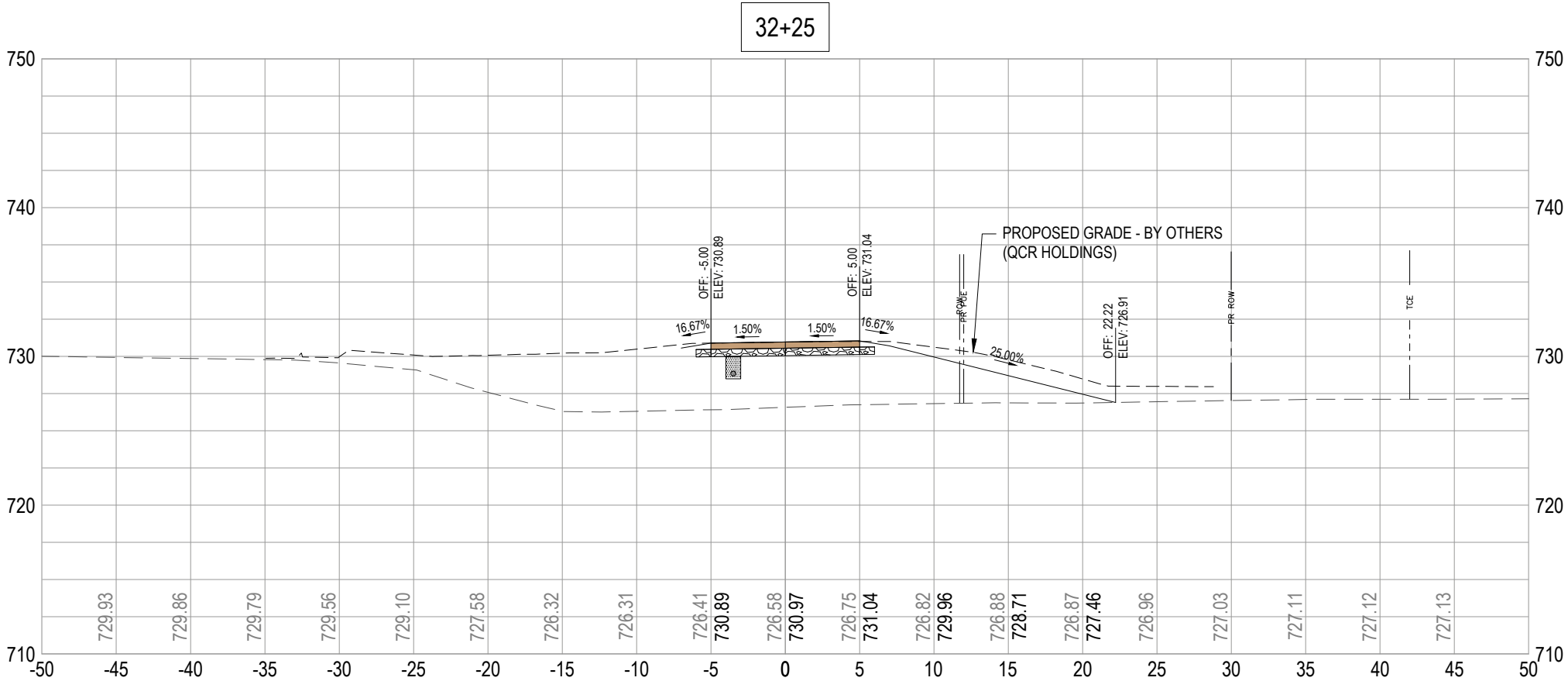
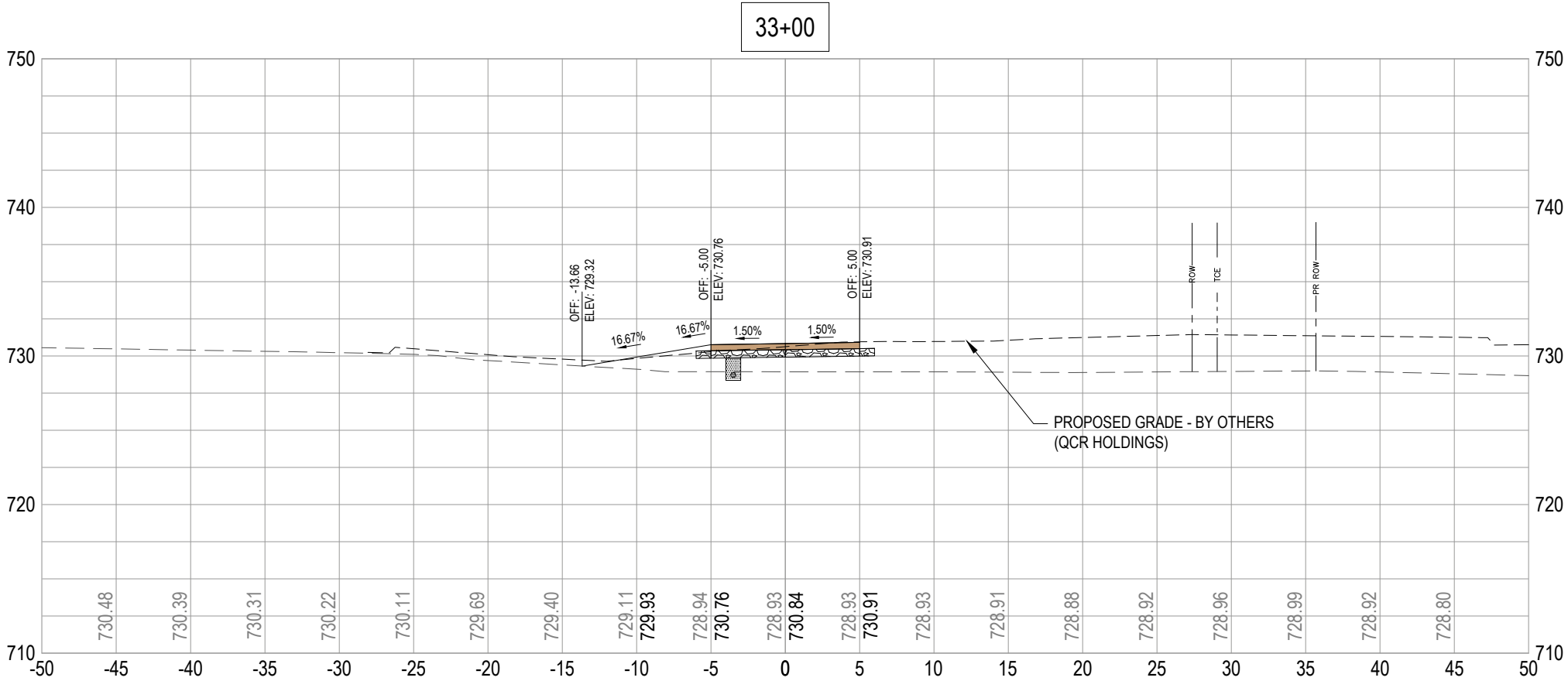


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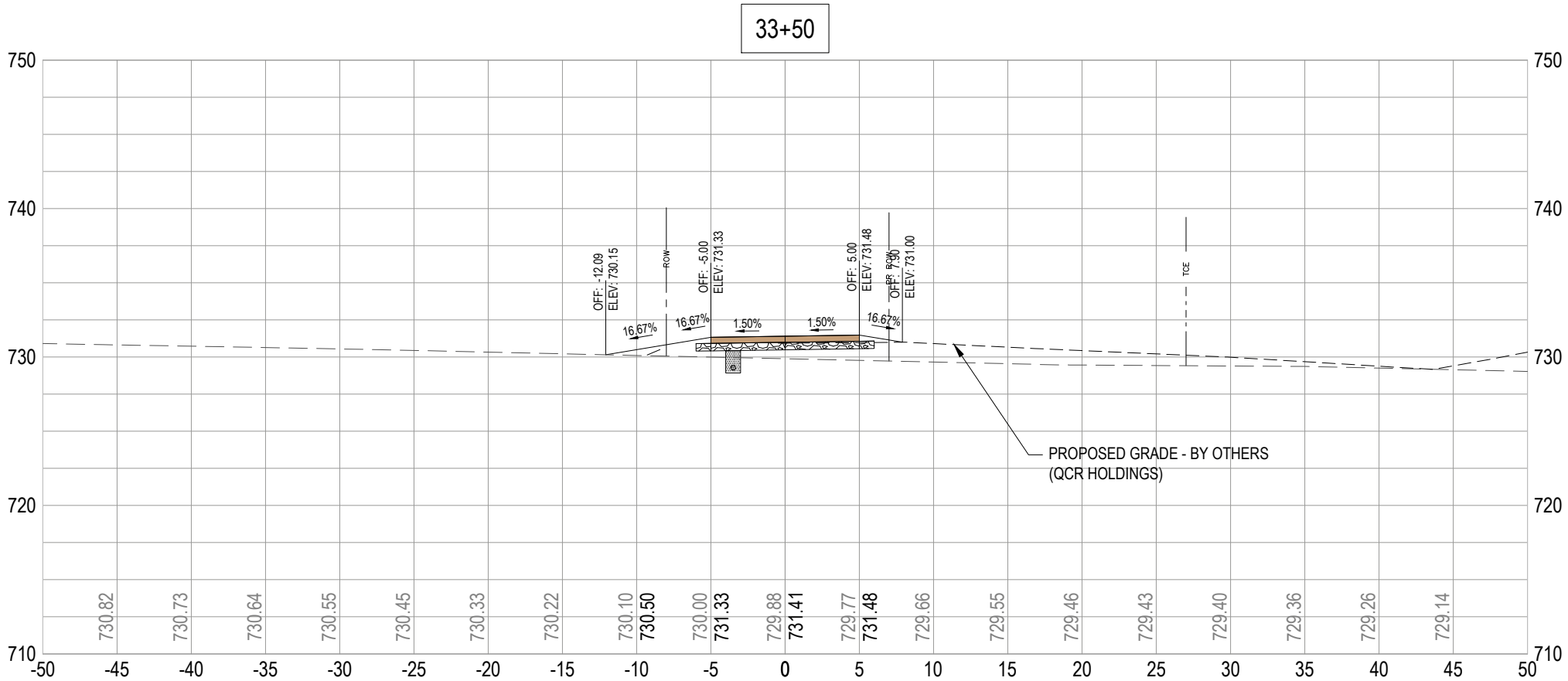
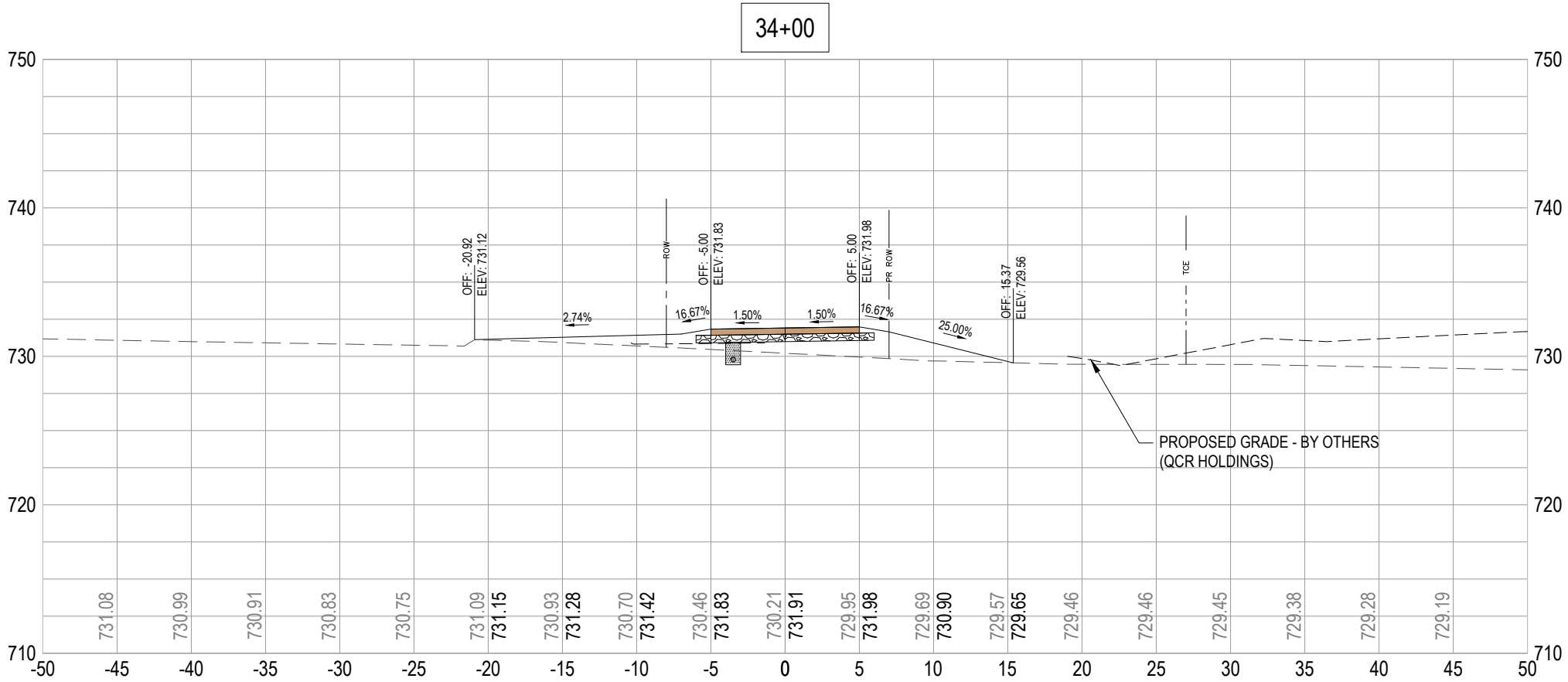
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EXISTING GRADE	








CROSS SECTIONS

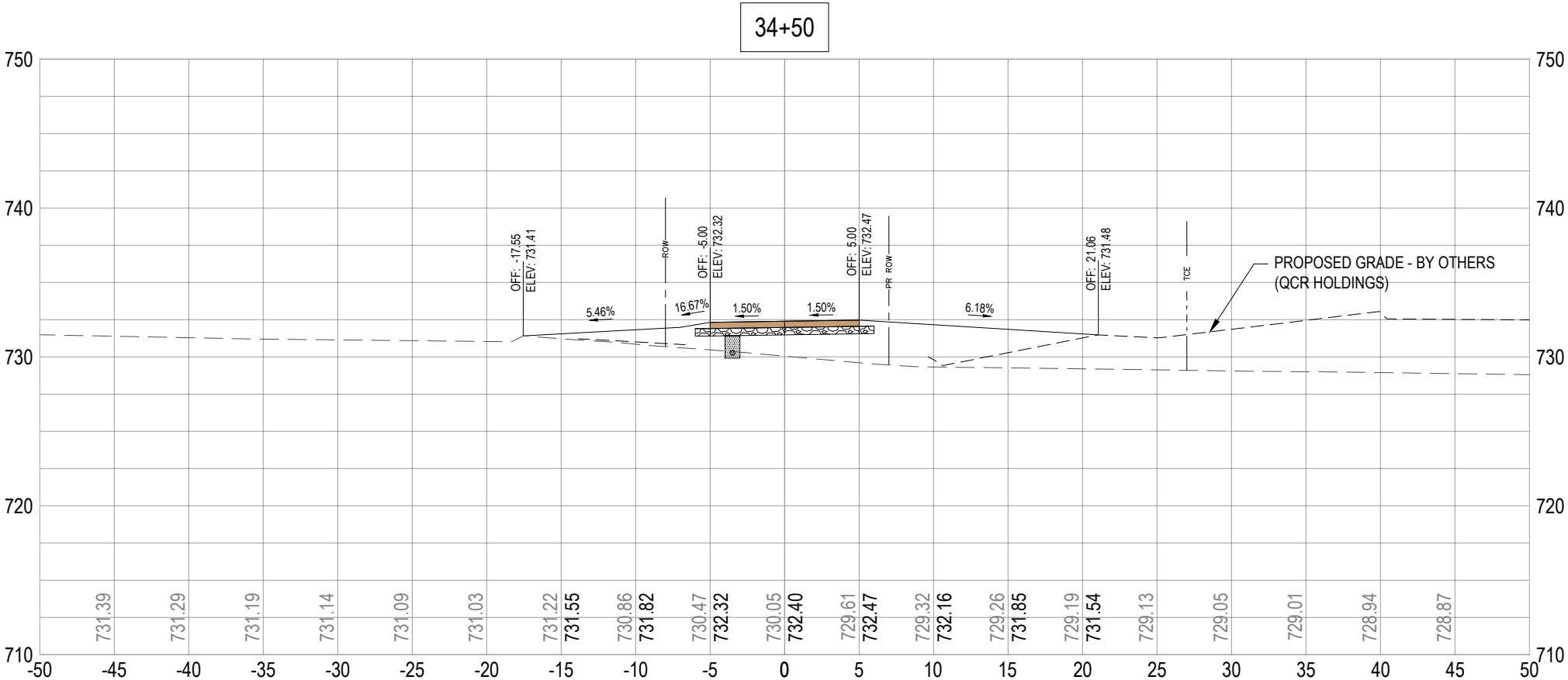
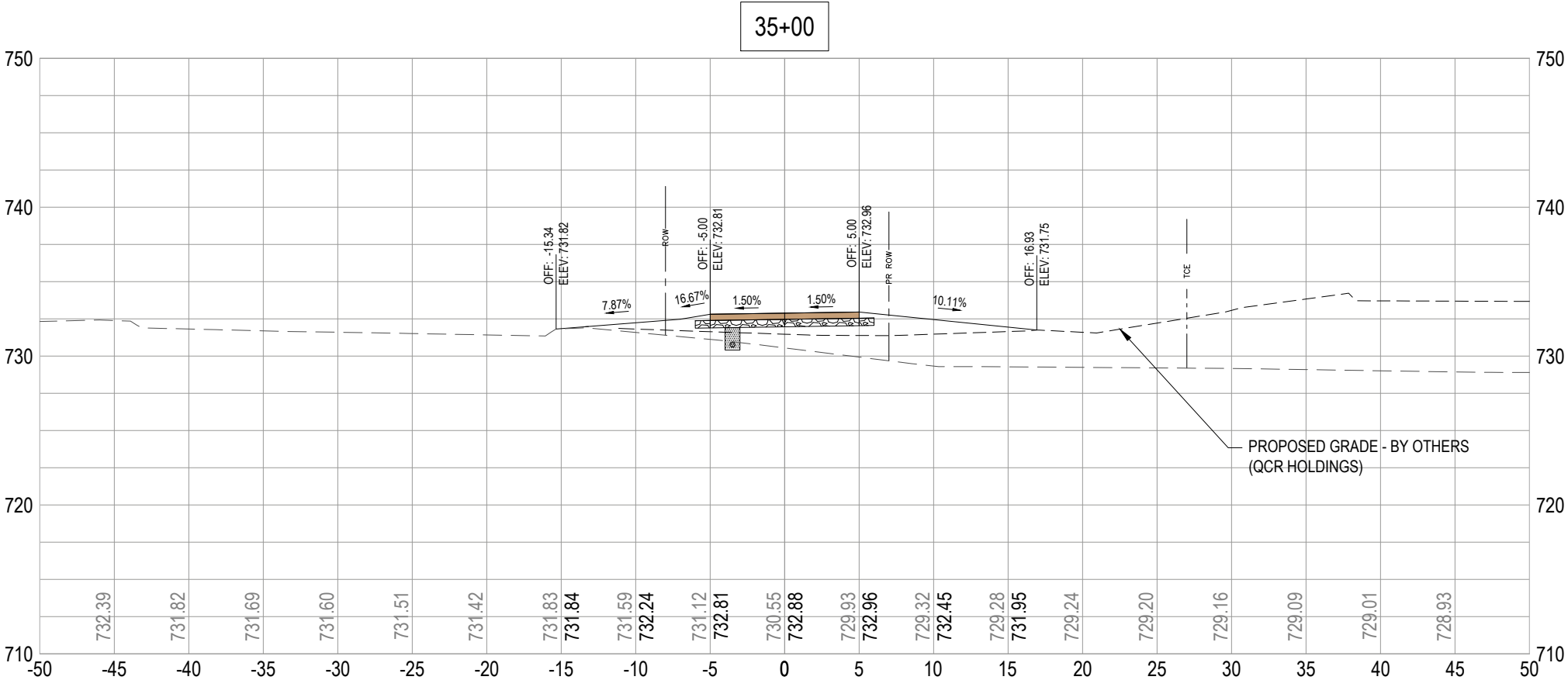


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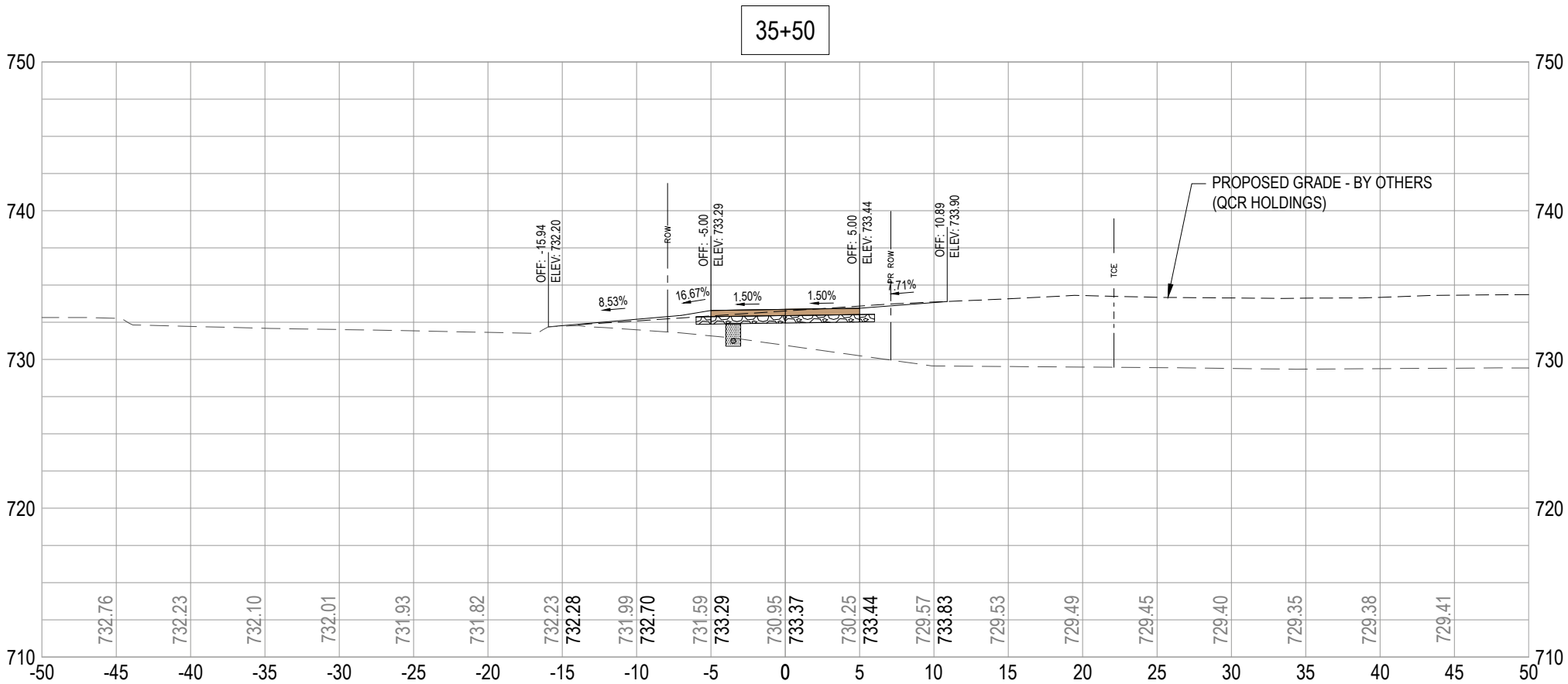
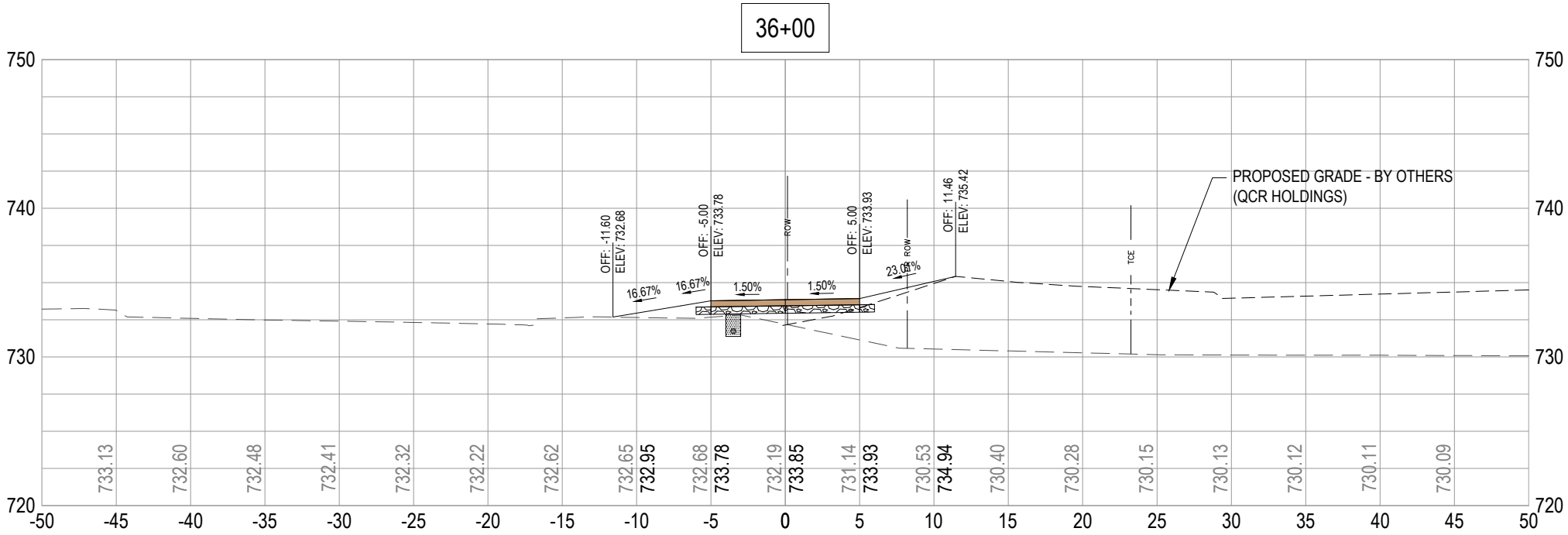
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CROSS SECTIONS



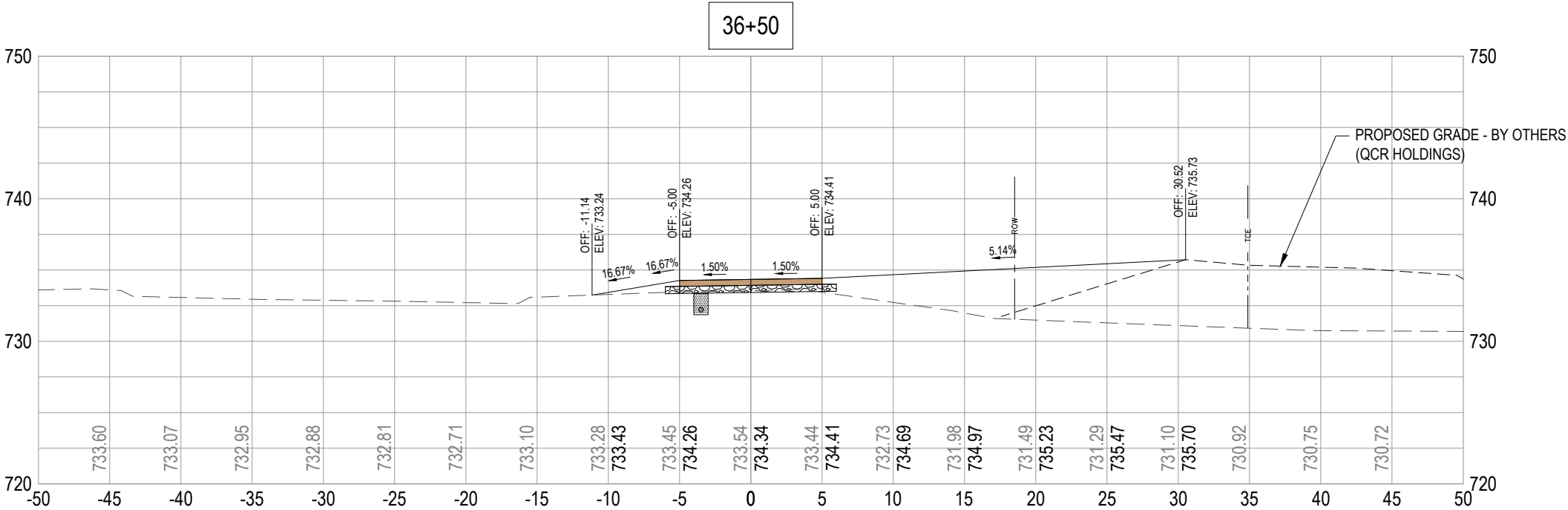
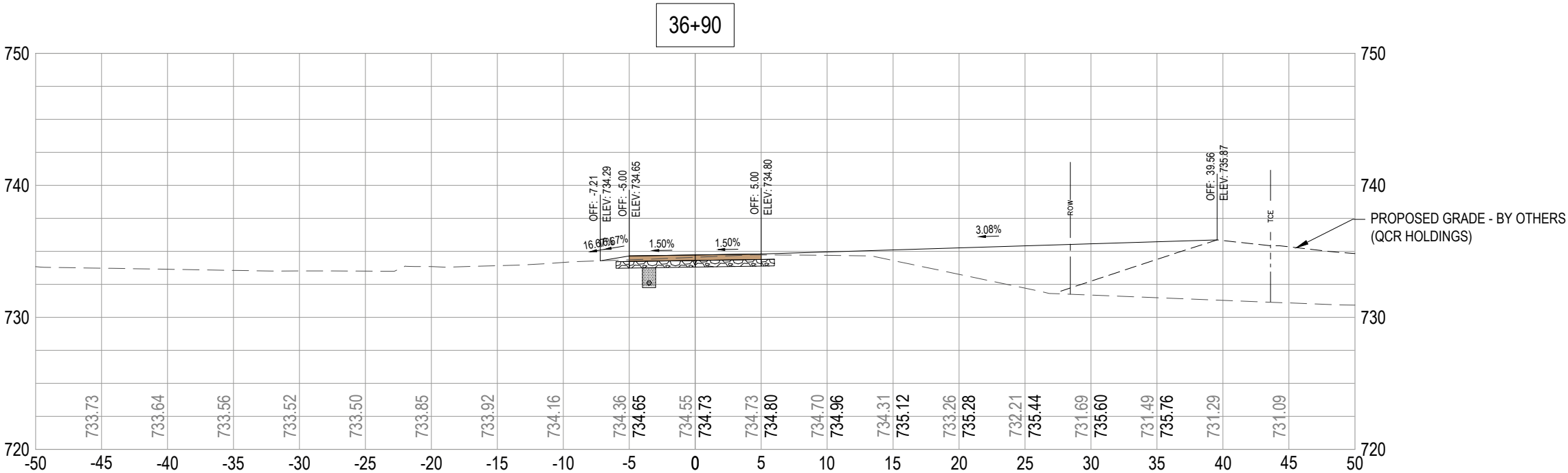
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CROSS SECTIONS

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CROSS SECTIONS