

04-25-2025 LETTING ITEM 173

PLANS FOR TRANSLOAD INTERMODAL EXPANSION

CITY OF ROCHELLE, OGLE COUNTY, ILLINOIS

FAU 5450 (STEWARD ROAD)

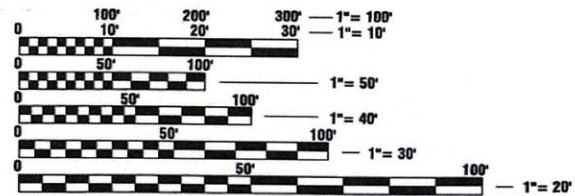
SECTION: 23-00118-00-RP

PROJECT NO. 9WN2(669)

JOB NO: C-92-010-24

FUNDING: ILLINOIS COMPETITIVE FREIGHT PROGRAM

CONTRACT NO. 85778



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT
CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

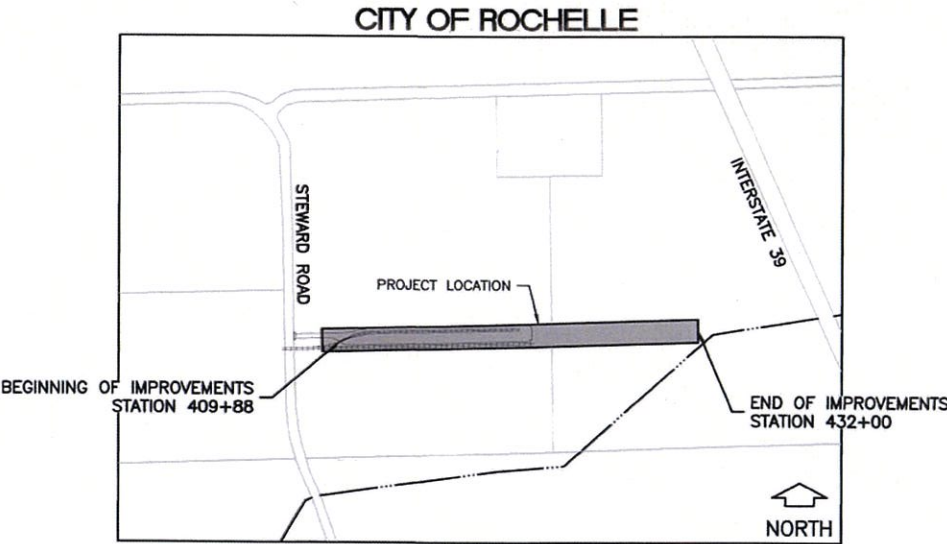
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATORS
1-800-892-0123 OR 811

UTILITIES	
UTILITY TYPE	COMMON NAME
WATER, SEWER, & ELECTRIC	ROCHELLE MUNICIPAL UTILITIES
TELEPHONE	FRONTIER COMMUNICATIONS
GAS	NICOR GAS CO.
CABLE	COMCAST

(CONTRACTOR TO BE RESPONSIBLE FOR ANY ADJUSTMENTS TO BE MADE.)



FEBRUARY 2025



LOCATION MAP

LENGTH OF PROJECT = 2212 FT. = 0.42 MILES

ADT = NOT APPLICABLE
SPEED LIMIT= NOT APPLICABLE

CITY OF ROCHELLE	
APPROVED	02/21/2025
	
CITY OF ROCHELLE	
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS	
PASSED	FEBRUARY 24, 2025
	
DISTRICT 2 ENGINEER OF LOCAL ROADS AND STREETS	
RELEASED FOR BID BASED ON LIMITED REVIEW	2/24/25
	
REGION 2 ENGINEER	



ORIGINAL SET FOR PROJECT: 22-1415 DATE CREATED: 02/01/25		
REVISIONS		
REV. NO.	DESCRIPTION	DATE

IDOT STANDARD DETAILS

STATE STANDARDS

STANDARD NO. LIST OF DESCRIPTION

001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-10	PAVEMENT JOINTS
420101-07	24' JOINTED PCC PAVEMENT
420106-07	36' JOINTED PCC PAVEMENT
420501-07	PCC PAVEMENT AND BASE COURSE ADJACENT TO RAILROAD GRADE CROSSING
420701-03	PAVEMENT WELDED WIRE REINFORCEMENT
542001-06	CONCRETE END SECTIONS FOR PIPE CULVERTS 15"-84" DIAMETER
542011-02	CONCRETE END SECTIONS FOR ELLIPTICAL PIPE CULVERTS 15" THRU 72" EQUIVALENT DIAMETER
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
601001-05	PIPE UNDERDRAINS
602001-02	CATCH BASIN TYPE A
602401-07	PRECAST MANHOLE TYPE A 4' DIAMETER
602402-03	PRECAST MANHOLE TYPE A 5' DIAMETER
604001-05	FRAME AND LIDS TYPE 1
701006-05	OFF-RD OPERATIONS 2L 2W MORE THAN 15'
701301-04	LANE CLOSURE, 2L 2W, SHORT TIME OPERATIONS
701901-10	TRAFFIC CONTROL DEVICES

INDEX OF SHEETS

SHEET NUMBER	SHEET TITLE
1	TITLE SHEET
2	INDEX OF SHEETS, STANDARD DETAILS
3	SUMMARY OF QUANTITIES
4	SCHEDULE OF QUANTITIES
5	GENERAL NOTES
6	STANDARD LEGEND
7	ALIGNMENT AND BENCHMARK LOCATIONS
8	TYPICAL SECTION 1
9	TYPICAL SECTION 2
10	REMOVAL PLAN
11	PLAN AND PROFILE STA 409+00 TO 414+00
12	PLAN AND PROFILE STA 414+00 TO 419+00
13	PLAN AND PROFILE STA 419+00 TO 424+00
14	PLAN AND PROFILE STA 424+00 TO 429+00
15	PLAN AND PROFILE STA 429+00 TO 434+00
16	DRAINAGE PLAN AND PROFILE STA 424+00 TO 429+00
17	DRAINAGE PLAN AND PROFILE STA 429+00 TO 433+50
18 - 19	EROSION CONTROL PLAN
20 - 24	GRADING PLAN
25 - 27	PAVEMENT JOINT PLAN
28 - 44	CROSS SECTIONS
45 - 50	DETAILS

HMA MIX TABLE

LOCATION AND MIXTURE USES (S)	SURFACE	BINDER
PG:	PG 58-28	PG 58-28
DESIGN AIR VOIDS	4.0 @ N70	4.0 @ N70
MIXTURE COMPOSITION	IL 9.5	IL 9.5
FRICTION AGGREGATE	C	N/A
MIX WEIGHT	112 LB/SY/IN	N/A
QUALITY MANAGEMENT PROGRAM	QC/QA	QC/QA
SUBLOT SIZE	N/A	N/A
MATERIAL TRANSFER DEVICE	N/A	N/A



ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS

IOWA

WISCONSIN

OWNER/DEVELOPER:

CITY OF ROCHELLE
420 NORTH SIXTH STREET
ROCHELLE, IL 61068

PROJECT AND LOCATION:

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ROCHELLE, ILLINOIS
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G:\C30\22\22-1415\Plans\22-1415 - Plans.dwg, INDEX

JOB NUMBER:

22-1415

SHEET NUMBER:

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SUMMARY OF QUANTITIES

SPEC. ITEM	SP. PROV.	CODE NO.	PAY ITEM	Unit	Quantity	CONSTRUCTION CODE	
						0044	0042
*		25000400	NITROGEN FERTILIZER NUTRIENT	POUND	630.00	630.00	
*		25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	630.00	630.00	
*		25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	630.00	630.00	
		20200100	EARTH EXCAVATION	CU YD	20,307.00	20307.00	
		20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	100.00	100.00	
		20700220	POROUS GRANULAR EMBANKMENT	CU YD	112.00	112.00	
		21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	300.00	300.00	
		21101505	TOPSOIL EXCAVATION AND PLACEMENT	CU YD	6,657.00	6657.00	
*		25000110	SEEDING, CLASS 1A	ACRE	7.00	7.00	
*		25100115	MULCH, METHOD 2	ACRE	7.00	7.00	
*		25100630	EROSION CONTROL BLANKET	SQ YD	2,200.00	2200.00	
		28000400	PERIMETER EROSION BARRIER	FOOT	2,200.00	2200.00	
		28000500	INLET AND PIPE PROTECTION	EACH	2.00	2.00	
		28000510	INLET FILTERS	EACH	9.00	9.00	
		28100105	STONE RIPRAP, CLASS A3	SQ YD	100.00	100.00	
		28200200	FILTER FABRIC	SQ YD	100.00	100.00	
		31101100	SUBBASE GRANULAR MATERIAL, TYPE B	CU YD	100.00	100.00	
		35102400	AGGREGATE BASE COURSE, TYPE B 12"	SQ YD	9,246.00	9246.00	
		40602985	HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70	TON	18	17.92	
		40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	18	17.92	
		42000060	WELDED WIRE REINFORCEMENT	SQ YD	21,320.00	21320.00	
		42000501	PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)	SQ YD	12,074.00	12074.00	
		42000564	PORTLAND CEMENT CONCRETE PAVEMENT 14" (JOINTED)	SQ YD	9,246.00	9246.00	
		42001300	PROTECTIVE COAT	SQ YD	21,320.00	21320.00	
		44000100	PAVEMENT REMOVAL	SQ YD	280.00	280.00	
	*	50200450	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL FOR STRUCTURES	CU YD	325.00	325.00	
		54001001	BOX CULVERT END SECTIONS, CULVERT NO.1	EACH	2.00	2.00	
	*	54010603	PRECAST CONCRETE BOX CULVERTS 6' X 3'	FOOT	513.00	513.00	

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SPEC. ITEM	SP. PROV.	CODE NO.	PAY ITEM	Unit	Quantity	CONSTRUCTION CODE	
						0044	0042
		54213657	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 12"	EACH	1.00	1.00	
		54213669	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 24"	EACH	4.00	4.00	
		55100500	STORM SEWER REMOVAL 12"	FOOT	14.00	14.00	
		55100900	STORM SEWER REMOVAL 18"	FOOT	11.00	11.00	
	*	60108108	PIPE UNDERDRAINS, TYPE 1, 8"	FOOT	667.00	667.00	
		60218300	MANHOLES, TYPE A, 4' DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	5.00	5.00	
		60221000	MANHOLES, TYPE A, 5' DIAMETER, TYPE 1 FRAME, OPEN LID	EACH	2.00	2.00	
		67100100	MOBILIZATION	L SUM	1.00	1.00	
		550B0050	STORM SEWER, CLASS B, TYPE 1, 12"	FOOT	129.00	129.00	
		550B0120	STORM SEWER, CLASS B, TYPE 2, 24"	FOOT	1,039.00	1039.00	
*	*	X0325346	RAILROAD TRACK	TRK FT	1,532.00	1532.00	
	*	X3550103	BASE COURSE REMOVAL (SPECIAL)	SQ YD	12,074.00	12074.00	
	*	X5427602	REMOVE EXISTING FLARED END SECTIONS	EACH	2.00	2.00	
	*	X5810103	MEMBRANE WATERPROOFING SYSTEM FOR BURIED STRUCTURES	SQ YD	459.00	459.00	
	*	X6020084	MANHOLE (SPECIAL)	EACH	2.00	2.00	
	*	X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1.00	1.00	
*	*	Z0002400	BALLAST	TON	1,410.00	1410.00	
		Z0013798	CONSTRUCTION LAYOUT	L SUM	1.00	1.00	
	*	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1.00	1.00	
*		Z0048700	RAILROAD TIES	EACH	945.00	945.00	
*		Z0048900	RAILROAD TRACK REMOVAL	FOOT	20.00	20.00	
	*	Z0054406	ROCK FILL-FOUNDATION	CU YD	248.30	248.30	
*	*	Z0069700	SUB-BALLAST	CU YD	545.00	545.00	
*	*	Z0076302	RAILROAD TRACKWORK	L SUM	1.00	1.00	
		Z0076600	TRAINEES	HOURL	500.00		500.00
		Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOURL	500.00		500.00



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ROCHELLE, ILLINOIS

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G:\C30\22\22-1415\Plans\22-1415 - Plans.dwg, SUMMARY OF QTY

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22-1415

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SCHEDULE OF QUANTITIES

INLET FILTER & PIPE PROTECTION SCHEDULE			
LOCATION		28000500	28000510
		INLET AND PIPE PROTECTION	INLET FILTERS
STA	OFFSET	EACH	EACH
424+73	RT		1
424+74	LT		1
424+78	RT		1
424+99	RT		1
425+31	LT		1
425+31	RT		1
425+35	LT		1
425+47	RT	1	
427+74	LT		1
429+62	RT	1	
429+69	LT		1
TOTAL		2	9

LANDSCAPING SCHEDULE								
LOCATION		25000110	25100115	25000400	25000500	25000600	28000400	28100105
		SEEDING, CLASS 1A	MULCH, METHOD 2	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	PERIMETER EROSION BARRIER	STONE RIPRAP, CLASS A3
START STA	END STA	ACRE	ACRE	POUND	POUND	POUND	FOOT	SQ YD
425+20	432+25	7.00	7.00	630	630	630	2200	
TOTAL		7.00	7.00	630	630	630	2200	100

		28100105	
		FILTER FABRIC	SQ YD
			100

PAVEMENT REMOVAL SCHEDULE			
LOCATION		44000100	X3550103
		PAVEMENT REMOVAL	BASE COURSE REMOVAL (SPECIAL)
START STA	END STA	SQ YD	SQ YD
409+82	423+33		12074
423+33	423+64	280	
TOTAL		280	12074

STORM SEWER REMOVAL SCHEDULE					
LOCATION			55100500	55100900	X5427602
			STORM SEWER REMOVAL 12"	STORM SEWER REMOVAL 18"	REMOVE EXISTING FLARED END SECTIONS
START STA	END STA	OFFSET	FOOT	FOOT	EACH
424+75	424+86	LT		11	
424+71	424+85	LT	14		
424+92	424+92	LT			2
TOTAL			14	11	2

PAVEMENT SCHEDULE					
LOCATION		40602985	40604052	35102400	42000501
		HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	AGGREGATE BASE COURSE, TYPE B 12"	PORTLAND CEMENT CONCRETE PAVEMENT 10" JOINTED
START STA	END STA	TON	TON	SQ YD	SQ YD
409+88	410+80	18	18		
409+90	423+64				12074
424+60	431+00			9246	9246
TOTAL		18	18	9246	12074

STORM SEWER SCHEDULE											
LOCATION			550B0050	60108108	550B0120	54213657	54213669	54010603	60218300	60221000	X6020084
			STORM SEWER CLASS B, TYPE 1 12"	PIPE UNDERDRAINS, TYPE 1, 8"	STORM SEWER CLASS B TYPE 2, 24"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 12"	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, 24"	PRECAST CONCRETE BOX CULVERTS 6' X 3'	MANHOLES, TYPE A, 4' DIAMETER, TYPE 1 FRAME, OPEN LID	MANHOLES, TYPE A, 5' DIAMETER, TYPE 1 FRAME, OPEN LID	MANHOLE (SPECIAL)
START STA	END STA	OFFSET	FOOT	FOOT	FOOT	EACH	EACH	FOOT	EACH	EACH	EACH
424+98	425+25	RT	27		11						
605+82	606+84	LT	102								
425+33	432+00	LT		667							
425+29	425+50	RT			21						
425+35	429+69	LT			435						
601+37	606+52	RT			519						
605+35	605+80	LT			53						
601+35	601+35	LT				1					
424+78	424+78	RT					1				
601+35	601+35	RT					1				1
601+62	601+62	RT					1				1
602+00	602+00	RT					1				
605+46	607+26	RT						513			
605+46	605+46	RT									1
607+26	607+26	RT									1
424+73	424+73	LT							1		
425+31	425+31	LT							2		
427+74	427+74	LT							1		
429+70	429+70	LT							1		
425+31	425+31	RT								1	
424+73	424+73	LT								1	
TOTAL			129	667	1039	1	4	513	5	2	2

Earthwork Schedule							
Limits	Earth Excavation	Earth Excavation Adjusted for Shrinkage (15%)	Embankment	Earthwork Balance - Waste(+) or Shortage (-) Furnished Excavation	Topsoil Excavation & Placement (6" Depth)	Topsoil Placement (Assume 4" Depth)	Furnished Topsoil Balance - Waste(+) or Shortage(-)
Location	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD	CU YD
	A	B = A x 0.85	C	D = B - C	E	F	G = E-F
PROJECT	20307	17261	13233	4028	6657	3420	3237



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GENERAL NOTES

1. THIS PROJECT SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE MUNICIPAL CODE, CITY OF ROCHELLE, ILLINOIS, CURRENT EDITION, THE ILLINOIS DEPARTMENT OF TRANSPORTATION'S "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", CURRENT EDITION, "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS," CURRENT EDITION, SPECIAL PROVISIONS AND THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS", CURRENT EDITION. SIGN CONSTRUCTION AND PAVEMENT MARKINGS SHALL CONFORM TO THE REQUIREMENTS OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", CURRENT EDITION.
2. AS PART OF THE BIDDING PROCEDURE, THE CONTRACTOR SHALL VERIFY THAT THE QUANTITIES FOR PAY ITEMS, AS PRESENTED IN THESE PLAN DOCUMENTS, ARE SUBSTANTIALLY CORRECT. IF DISCREPANCIES ARE DETECTED, THE CONTRACTOR SHALL NOTIFY THE ENGINEER OF THE DISCREPANCY PRIOR TO THE BID DATE.
3. QUANTITIES SHOWN ARE ESTIMATES FOR INFORMATION ONLY. PAYMENT WILL BE BASED ON ACTUAL QUANTITIES MEASURED IN THE FIELD OR ON PAYMENT LIMIT DETAILS.
4. THE CONTRACTOR SHALL BE PAID FOR MATERIALS AND EQUIPMENT SUCCESSFULLY INSTALLED IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS AS MEASURED OR VERIFIED IN PLACE BY THE ENGINEER OR HIS AGENT.
5. IN CASE OF CONFLICT BETWEEN THE ABOVE MENTIONED SPECIFICATIONS, THE ENGINEER SHALL DETERMINE WHICH OF THE SPECIFICATIONS SHALL GOVERN. THE ENGINEER'S DECISION SHALL BE FINAL AND NO ADDITIONAL COMPENSATION SHALL BE AWARDED UNLESS APPROVED BY THE ENGINEER.
6. THE ENGINEER SHALL HAVE THE AUTHORITY TO INSPECT, APPROVE OR REJECT THE WORKMANSHIP AND/OR MATERIALS WHICH GO TO MAKE UP IMPROVEMENTS AS DETAILED IN THESE PLANS AND SPECIFICATIONS.
7. GENERAL SAFETY PROVISION: TO PROVIDE DRIVERS WITH SAFE TRAVEL CONDITIONS DURING THE CONSTRUCTION PROJECT, AND TO PROVIDE SAFE WORKING CONDITIONS FOR ALL EMPLOYEES, THE RULES, REGULATIONS, AND CONDITIONS STATED BELOW WILL PREVAIL FOR THE DURATION OF THIS CONTRACT. ANY EMPLOYEE OF THE CONTRACTOR OR HIS SUBCONTRACTORS WHO REFUSES TO COMPLY WITH THESE GENERAL SAFETY PROVISIONS SHALL BE REMOVED FROM THE JOB SITE IN ACCORDANCE WITH STATE AND LOCAL REQUIREMENTS. THE CONTRACTOR AND ANY SUBCONTRACTORS RETAINED BY HIM SHALL COMPLY WITH THE STATE AND FEDERAL REQUIREMENTS OF THE OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970 (OSHA), JULY 1, 1987 AS IT RELATES TO CONTRACTOR'S OPERATIONS.
8. THE CONTRACTOR SHALL COMPLY WITH ALL STATE REGULATIONS REGARDING AIR, WATER, AND NOISE POLLUTION. THE CONTRACTOR WILL NOT BE ALLOWED TO BUILD FIRES ON THE SITE.
9. THE SCALE SHOWN ON THE DRAWINGS APPLIES ONLY TO THE FULL SIZE PLANS NOT THE REDUCED SIZE PLANS.
10. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN DRAINAGE FLOWS AT ALL TIMES DURING THE PERFORMANCE OF THE WORK. METHODS USED BY THE CONTRACTOR SHALL BE SUBJECT TO THE APPROVAL OF THE ENGINEER. COST OF MAINTAINING DRAINAGE FLOWS SHALL BE INCIDENTAL TO THE CONTRACT.
11. OUTSIDE THE EXISTING RIGHT-OF-WAY, THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATION NEAR ANY AND ALL EXISTING SIGNS OUTSIDE THE RIGHT-OF-WAY. ANY SIGNS REMOVED FOR CONSTRUCTION PURPOSES SHALL BE CAREFULLY REMOVED AND RE-ERECTED BY THE CONTRACTOR AT A LOCATION NEAREST TO THE ORIGINAL LOCATION, OR AT A LOCATION DETERMINED BY THE ENGINEER IN THE FIELD. REMOVAL AND RE-ERECTED SIGNS AND ANY DAMAGE DONE TO EXISTING SIGNS BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED OR REPLACED AT NO ADDITIONAL EXPENSE TO THE OWNER.
12. ALL ITEMS SHALL INCLUDE ALL THE NECESSARY MATERIALS AND LABOR TO COMPLETE THE ITEM IN PLACE.
13. AT THE END OF EACH DAY, THE CONTRACTOR SHALL SECURE THE CONSTRUCTION WORK ZONE FROM POTENTIAL INTRUDERS.
14. THE CONTRACTOR SHALL FIELD VERIFY THE ELEVATIONS OF THE BENCHMARKS PRIOR TO COMMENCING WORK. THE CONTRACTOR SHALL ALSO FIELD VERIFY LOCATION, ELEVATION AND SIZE OF EXISTING UTILITIES, AND VERIFY PAVEMENT ELEVATIONS WHERE MATCHING INTO EXISTING WORK. THE CONTRACTOR SHALL FIELD VERIFY HORIZONTAL CONTROL BY REFERENCING SHOWN COORDINATES TO KNOWN PROPERTY LINES. NOTIFY ENGINEER OF DISCREPANCIES IN EITHER VERTICAL OR HORIZONTAL CONTROL PRIOR TO PROCEEDING WITH WORK.
15. THE CONTRACTOR SHALL CONTACT THE ENGINEER OF ANY ERRORS OR DISCREPANCIES WHICH MAY BE SUSPECTED IN LINES AND GRADES, AND SHALL NOT PROCEED WITH THE WORK UNTIL ALL LINES AND GRADES WHICH ARE BELIEVED TO BE IN ERROR HAVE BEEN VERIFIED OR CORRECTED BY THE ENGINEER OR HIS REPRESENTATIVE.
16. THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCE OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS OR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF THEIR WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND SPECIFICATIONS.
17. ANY AREAS DAMAGED OR DISTURBED DURING THE PROJECT AS A DIRECT OR INDIRECT RESULT OF CONTRACTOR OPERATIONS, SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THE ORIGINAL CONDITION. THE COST OF SAID RESTORATION OR REPAIR SHALL BE BORNE TOTALLY BY THE CONTRACTOR, WITH NO EXTRA COMPENSATION BEING AWARDED UNDER THIS CONTRACT. THE RESPONSIBILITY FOR THE REPAIR OR REPLACEMENT OF ANY UTILITY, STRUCTURE, LANDSCAPING, ETC., DAMAGED OR DESTROYED BY THE CONTRACTOR DURING MOBILIZATION OR CONSTRUCTION SHALL BE BORNE SOLELY BY THE CONTRACTOR, WITH NO EXPENSE BEING CHARGED TO THE ENGINEER OR OWNER. PRIOR TO ACCEPTANCE OF THIS REPAIR OR REPLACEMENT, THE CONTRACTOR SHALL PRESENT THE OWNER WITH A "SIGNOFF LETTER", SIGNED BY A RESPONSIBLE OFFICIAL OF THE OWNER OF THE DAMAGED UTILITY STATING THAT THE REPAIR OR REPLACEMENT IS ACCEPTABLE.

SEEDING OF DISTURBED AREAS

1. GUARANTEE: ALL SEEDED AREAS SHALL BE MAINTAINED AND MOWED FOR AT LEAST 30 DAYS AFTER GERMINATION. SCATTERED BARE SPOTS NO LARGER THAN TWO SQUARE FOOT WILL BE ALLOWED UP TO A MAXIMUM OF 5% OF ANY SEEDED AREA INCLUDING 30-DAY MAINTENANCE, MOWING AND WATERING AS NECESSARY.
2. THIS WORK SHALL CONFORM TO THE APPLICABLE STANDARDS FROM THE ILLINOIS URBAN MANUAL, THE ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATION SECTIONS, CURRENT EDITION, THE PROJECT SPECIFICATIONS, AND THE APPROPRIATE DETAILS.
3. RESTORATION – THE CONTRACTOR SHALL RESTORE ALL AREAS DISTURBED DURING THE CONSTRUCTION OF THE IMPROVEMENTS AND RELATED APPURTENANCES OR AS PART OF ANY OF THEIR ACTIVITIES TO A CONDITION EQUAL TO OR BETTER THAN THE ORIGINAL CONDITION.

STORM SEWER

1. ALL EXISTING MANHOLE CONNECTIONS MUST BE CORE-DRILLED, UNLESS A PRE-CORED HOLE, SUITABLY LOCATED, EXISTS IN THE MANHOLE.
2. CONTRACTOR SHALL FIELD VERIFY ALL EXISTING STORM SEWER ELEVATIONS THAT PROJECT CONNECTS TO.

UTILITIES

1. UTILITIES SHOWN ON THE PLANS ARE FOR ILLUSTRATIVE PURPOSES ONLY AND NO GUARANTEE OF THEIR ACCURACY IS MADE OR INFERRED. THE LOCATION OF EXISTING UTILITIES AS SHOWN ON THE DRAWINGS REPRESENT DATA RECEIVED FROM VARIOUS SOURCES. IT IS NOT GUARANTEED TO BE CORRECT OR ALL-INCLUSIVE. THE CONTRACTOR SHALL CONDUCT HIS OWN INVESTIGATION INTO THE LOCATION, SIZE, DEPTH AND NATURE OF ANY AND ALL EXISTING UTILITIES THAT MAY INTERFERE WITH THE WORK UNDER THIS CONTRACT. ANY EXISTING UTILITIES THAT ARE TO REMAIN IN SERVICE SHALL BE FULLY PROTECTED BY THE CONTRACTOR AND ANY DAMAGE CAUSED BY THE CONSTRUCTION OPERATIONS SHALL BE IMMEDIATELY REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER OR THE OWNER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING ANY AND ALL UTILITY COMPANIES REGARDING ADJUSTMENTS NECESSARY. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE AND CONSIDERED INCIDENTAL TO THE PROJECT COST. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND, OVERHEAD, OR SURFACE UTILITIES EVEN THOUGH THEY MAY NOT BE SHOWN ON THE PLANS. ANY UTILITY THAT IS DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED TO THE SATISFACTION OF THE ENGINEER OR THE OWNER OR REPLACED. THIS WORK SHALL BE AT THE CONTRACTOR'S EXPENSE.
2. THE CONTRACTOR MUST VERIFY AND LOCATE ALL EXISTING UTILITIES ON OR ADJACENT TO THE SITE. PRIOR TO BEGINNING CONSTRUCTION ACTIVITIES, CONTACT J.U.L.I.E. AT 1-800-892-0123 (OR 811) FOR EXACT FIELD LOCATION OF UTILITIES. DAMAGE, AND THE COST THEREOF, TO ANY AND ALL UTILITIES SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. ANY AND ALL EXISTING UTILITIES SHOWN HEREON ARE APPROXIMATE. THE ENGINEER AND SURVEYOR ASSUMES NO RESPONSIBILITY FOR THE LOCATION OF THE EXISTING UTILITIES SHOWN HEREON.
3. IF THERE ARE ANY UTILITIES WHICH ARE NOT MEMBERS OF THE J.U.L.I.E. SYSTEM, THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR DETERMINING THIS AND REQUESTING SAID UTILITIES TO FIELD VERIFY AND MARK PERTINENT UTILITY LOCATIONS.
4. THE UTILITY LOCATIONS, DEPTHS, ETC. SHOWN ON THESE PLANS ARE APPROXIMATE ONLY, AND SHALL BE VERIFIED BY THE CONTRACTOR WITH ALL AFFECTED UTILITY COMPANIES PRIOR TO INITIATING CONSTRUCTION OPERATIONS; THE ENGINEER AND OWNER ASSUME NO RESPONSIBILITY FOR THE ADEQUACY, SUFFICIENCY OR EXACTNESS OF THESE UTILITY REPRESENTATIONS.
5. ANY AND ALL FIELD TILES AND OR STORM SEWERS DAMAGED OR ENCOUNTERED DURING THE CONSTRUCTION ACTIVITIES SHALL BE REPAIRED, REPLACED AND/OR CONNECTED IMMEDIATELY BY THE CONTRACTOR. COST FOR REPAIRS, REPLACEMENT, AND/OR CONNECTION SHALL BE INCIDENTAL TO THE VARIOUS CONTRACT ITEMS.

EXCAVATION/EARTHWORK

1. THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATION NEAR ANY AND ALL EXISTING ITEMS WHICH ARE NOT INDICATED TO BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR'S OPERATIONS SHALL BE REPAIRED AT NO ADDITIONAL EXPENSE TO THE OWNER.
2. CLEAN CONSTRUCTION OR DEMOLITION DEBRIS (CCDD) REQUIREMENTS--"THE CONTRACTOR IS RESPONSIBLE FOR THE ASSESSMENT AND PROPER DISPOSAL OF ALL EXCESS SOIL AND SUBSURFACE MATERIALS THAT ARE NOT ABLE TO BE RE-USED ON THE PROJECT SITE AS SUITABLE CLEAN FILL. CONTRACTOR RESPONSIBILITY'S SHALL INCLUDE ALL REQUIRED SOIL SAMPLING, LABORATORY ANALYSIS, DISPOSAL PROFILING FEES, TRANSPORTATION, AND DISPOSAL TIPPING FEES AND SURCHARGES."
3. ROCK IS NOT ANTICIPATED TO BE ENCOUNTERED.
4. ALL EXCAVATIONS FOR STRUCTURES AND PIPE SHALL BE KEPT DEWATERED DURING CONSTRUCTION UNTIL BACKFILL IS IN PLACE. DURING DEWATERING OPERATIONS, WATER SHALL BE PUMPED INTO SEDIMENT BASINS OR SILT TRAPS.
5. WHENEVER THE CONTRACTOR WORKS NEAR EXISTING FACILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS DURING TRENCHING OPERATIONS, HE WILL BE REQUIRED TO HAND TRENCH IN THAT AREA IN ORDER NOT TO DAMAGE THESE FACILITIES. PUSH HOLES AND SEARCH HOLES THAT ARE DUG BY THE CONTRACTOR SHALL BE BACKFILLED BY TAMPING THE EXCAVATED MATERIAL BACK IN PLACE TO KEEP SETTLEMENT TO A MINIMUM. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
6. IN PROPOSED FILL AREAS FOR PAVEMENT AND EMBANKMENT, TOPSOIL AND TURF SHALL BE SCARIFIED AND REMOVED PRIOR TO CONSTRUCTING THE EMBANKMENT.



ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS

IOWA

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SEC 23--00118--00--RP

DRAWN BY: YJ
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GENERAL NOTES

SET TYPE:

PRELIMINARY

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JOB NUMBER:

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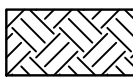
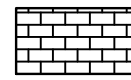
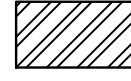
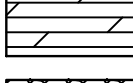
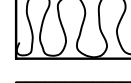
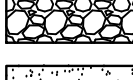
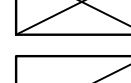
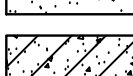
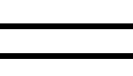
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ABBREVIATIONS

ANGLE
 ABC AGGREGATE BASE COURSE
 AC ACRE(S)
 ACI AMERICAN CONCRETE INSTITUTE
 AGR AGGREGATE
 AISC AMERICAN INSTITUTE OF STEEL CONSTRUCTION
 ALT ALTERNATE
 ARCH ARCHITECT
 ASPH ASPHALT
 ASTM AMERICAN SOCIETY OF TESTING AND MATERIALS
 B BALL VALVE
 BFP BACKFLOW PREVENTER
 BIT BITUMINOUS
 BLDG BUILDING
 BLK BLOCKING
 BM BENCHMARK
 BOT BOTTOM
 BSMT BASEMENT
 BV BUTTERFLY VALVE
 B-B BACK-TO BACK OF CURB DIMENSION
 C CENTERLINE
 C TO C CENTER TO CENTER
 C & G CURB AND GUTTER
 CF CUBIC FEET
 CHD CHORD LENGTH
 CI CAST IRON PIPE
 CHK CHECK VALVE
 CLR CLEAR
 CMP CORRUGATED METAL PIPE
 CMU CONCRETE MASONRY UNIT
 CTY COUNTY
 CONC CONCRETE
 CONT CONTINUOUS
 C-B CENTERLINE TO BACK OF CURB DIMENSION
 COORD COORDINATE
 CU COPPER PIPING
 CTRS CENTERS
 CY CUBIC YARDS
 CS CORPORATION STOP
 D DEGREE OF CURVE
 DEP DEPRESSED
 DET DETAIL
 DIAGONAL
 DIM DIMENSION
 DI DUCTILE IRON PIPE
 DN DOWN
 DNSTR DOWNSTREAM
 DP DRAINAGE PIPE/STORM PIPE
 DWG DRAWING
 E EAST
 EJ EXPANSION JOINT
 EL ELEVATION
 EP EDGE OF PAVEMENT
 EQUIP EQUIPMENT
 EQUIV EQUIVALENT
 EW EACH WAY
 EXP EXPANSION
 EX EXIST
 EXT EXTERIOR
 E = EXTERNAL DISTANCE
 FD FLOOR DRAIN
 FDN FOUNDATION
 FE FIELD ENTRANCE
 FF FINISH FLOOR
 FIL FILLET
 FIN FINISH
 FL FLOW LINE
 FLR FLOOR
 FM FORCE MAIN
 FND FOUND
 FRMG FRAMING
 FTG FOOTING
 F-F FACE TO FACE
 GA GAUGE
 GI GALVANIZED IRON PIPE
 GRD GRADE
 GRS GRATING SUPPORT
 GRT GROUT
 GV GAS VALVE
 GYP GYPSUM
 HSE HOUSE
 HC HORIZONTAL CURVE
 HMA HOT MIX ASPHALT
 HNGR HANGER
 HORIZ HORIZONTAL
 H.P. HIGH POINT
 HW HOT WATER
 HWH HOT WATER HEATER
 Δ = CENTRAL ANGLE
 I MOMENT OF INERTIA
 ID INSIDE DIAMETER
 INT INTERIOR
 INV INVERT ELEVATION; BASED ON BENCH MARK DATUM
 IP IRON PIPE
 JST JOIST
 L LENGTH OF CURVE
 LAT LATERAL
 LAV LAVATORY
 LF LINEAL FEET
 L.P. LOW POINT
 LT LEFT OF SURVEY BASE LINE
 MAX MAXIMUM
 ME MATCH EXISTING
 MH MANHOLE
 MIN MINIMUM
 MJ MECHANICAL JOINT
 MTL METAL
 N NORTH
 No. OR # NUMBER
 NOM NOMINAL
 NTS NOT TO SCALE
 OC ON CENTER
 OD OUTSIDE DIAMETER
 OO OUTSIDE TO OUTSIDE
 OPNG OPENING
 OPP OPPOSITE
 PC POINT OF CURVATURE
 PCC PORTLAND CEMENT CONCRETE
 PCF POUNDS PER CUBIC FOOT
 PDP PERFORATED DRAIN PIPE

PE	POLYETHYLENE PIPE
PI	POINT OF INTERSECTION
PL	PLATE
PLG	PLUG VALVE
PLP	POLYPROPYLENE PIPE
PLYWD	PLYWOOD
PM	PRINCIPAL MERIDIAN
PR	PRESSURE REGULATORS
PRC	POINT OF REVERSE CURVATURE
PRESS	PRESSURE
PR, PROP	PROPOSED
PRV	PRESSURE REDUCING VALVE
PSF	POUNDS PER SQUARE FOOT
PSI	POUNDS PER SQUARE INCH
PSL	PIPE SLEEVE
PT	POINT OF TANGENCY
PLG	PLUG VALVE
PVC	POLYVINYL CHLORIDE (PLASTIC) PIPE
R	RADIUS
RDCR	REDUCER
RCCP	REINFORCED CONCRETE CYLINDER PIPE
RCP	REINFORCED CONCRETE PIPE
RD	ROOF DRAIN
REINF	REINFORCING
REQD	REQUIRED
ROW	RIGHT OF WAY
RFTR	RAFTER
RND	ROUND
RR	RAILROAD
RRSP	RAILROAD SPIKE
RT	RIGHT
R&R	REMOVE AND REPLACE
S	SOUTH
SB	STREAM BED
SCHED	SCHEDULE
SEC	SECTION
SF	SQUARE FEET
SHR	SHOWER
SHT	SHEET
SHTG	SHEDDING
SP	SANITARY PIPE
SPA	SPACING OR SPACES
SPEC	SPECIFICATION
SQ	SQUARE
SS	SANITARY SERVICE
STA	STATION
STD	STANDARD
STL	STEEL
STRUCT	STRUCTURAL
SW	SIDEWALK
SY	SQUARE YARDS
SYM	SYMMETRICAL
TAN	TANGENT LENGTH
TBC	TOP BACK OF CURB
TBM	TEMPORARY BENCH MARK; BASED ON BENCHMARK DATUM
TD	TILE DRAIN
THK	THICK
TR	TREAD
TY	TYPE
TYP	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
UP	UTILITY POLE
UPSTR	UPSTREAM
UR	URINAL
USGS	US GEOLOGICAL SURVEY
VC	VERTICAL CURVE
VCP	VITRIFIED CLAY PIPE
VERT	VERTICAL
VOL	VOLUME
VPC	VERTICAL POINT OF CURVATURE
VPI	VERTICAL POINT OF INTERSECTION
VPRC	VERTICAL POINT OF REVERSE CURVATURE
VPT	VERTICAL POINT OF TANGENCY
W	WEST
WC	WATER CLOSET
WF	WIDE FLANGE
WM	WATER MAIN
WMQ	WATER MAIN QUALITY
WV	WATER VALVE
WGT	WEIGHT
WP	WEATHER PROOF
WS	WATER SERVICE
WWF	WELDED WIRE FABRIC
W/	WITH
W/O	WITHOUT
XP	EXPLOSION PROOF

HATCH PATTERNS

	EARTH - FILL		BRICK
	EARTH - UNDISTURBED		STEEL
	ROCK (GEOLOGICAL)		INSULATION (LOOSE/ BATT)
	STONE OR RIP RAP		INSULATION (RIGID)
	GRAVEL		WOOD (ROUGH)
	CONCRETE		WOOD (BLOCKING)
	CONCRETE BLOCK		WOOD (FINISH)
	CMU		DETECTABLE WARNING
	ASPHALT PAVEMENT		

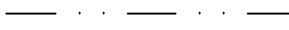
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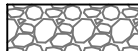
EXISTING	CIVIL	PROPOSED
EXISTING R.O.W.	RIGHT-OF-WAY LINE	PROPOSED R.O.W.
	PROPERTY LINE	
	CENTERLINE	
	SETBACK LINE	
	EASEMENT LINE	
	SECTION LINE	
	SECTION CORNER	
	COORDINATE POINT ON GRID SYSTEM	
	FOUND OR SET PROPERTY PIN	
	RIGHT-OF-WAY MARKER	
	BENCHMARK	
	CONTOUR LINE	
	SPOT ELEVATION (AT ●)	
	FENCE LINE	
	SILT FENCE LINE	
	CURB AND GUTTER	
	TIP OUT CURB AND GUTTER	
	SAWCUT, LIMITS OF PAVEMENT REMOVAL & REPLACEMENT	
	DECIDUOUS TREE W/ SIZE	
	CONIFEROUS TREE W/ SIZE	
	TREE STUMP	
	HEDGEROW	
	BUSH OR SHRUB	
	TREE LINE	
	CONSTRUCTION LIMIT LINE	
	SIGN (MULTIPLE POST, SINGLE POST, STREET SIGN)	
	SIGN (PYLON)	
	GUARD RAIL	
	RAILROAD TRACKS	
	BUILDING	
	MAILBOX	
	FLAGPOLE	
	BOLLARD	
	AIR CONDITIONER	

<u>EXISTING</u>		<u>MISC</u>		<u>PROPOSED</u>
 S.B. #XX	SOIL BORING LOCATION AND NUMBER			 S.B. #XX
 MW #XX	MONITORING WELL			 MW #XX
	REVISION NUMBER			
	OUTLINE OF DETAILED AREA			
	SECTION NUMBER			
	SHEET WHERE SHOWN			

EXISTING		PROPOSED
—— SAN ——	SANITARY SEWER	—— SAN ——
—— SSV —— SSV ——	SANITARY SEWER SERVICE	—— SSV —— SSV ——
—— < FM ——	SANITARY SEWER FORCE MAIN	—— < FM ——
○	SANITARY CLEANOUT	CO ●
⊙	SANITARY MANHOLE	●
	WYE FITTING	⌋

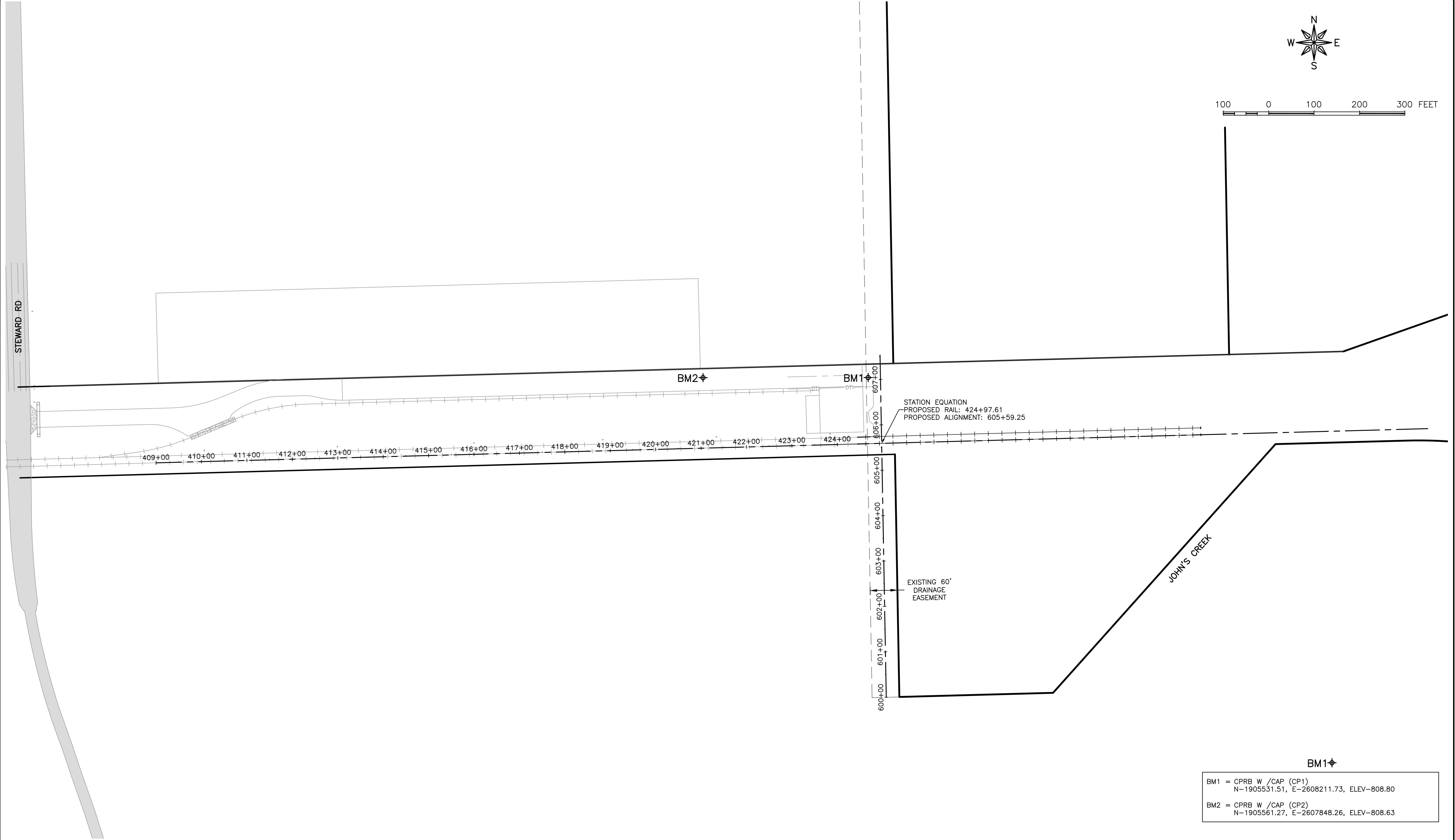
EXISTING		PROPOSED
	WATER SERVICE	
	WATER PIPE	
	FIRE HYDRANT	
	YARD HYDRANT	
	WATER VALVE WITH BOX	
	CURB STOP W/CURB BOX	
	REDUCER	
	WATER VALVE VAULT	
	11.25° BEND	
	22.50° BEND	
	45° BEND	
	90° BEND	
	TEE	
	CAP	
	WATER METER	
	SPRINKLER HEAD	
	TRACER WIRE BOX	

<u>EXISTING</u>		<u>PROPOSED</u>
	STORM SEWER	
	DRAIN TILE	
	DITCH LINE (PAVED)	
	DITCH LINE (UNPAVED)	
	STORM MANHOLE	
	CATCH BASIN	
	STORM SEWER INLET	
	STORM SEWER INLET - BEHIND CURB	
	DOWNSPOUT	
	CULVERT AND SIZE	
	RCCP OR RCP EQRS (RCAP) END SECTION	
	METAL OR HDPE END SECTION	
	FLOW DIRECTION	

EXISTING	EROSION CONTROL	PROPOSED
	EROSION CONTROL BLANKET	
	TEMPORARY AND PERMANENT SEEDING AREA	
	UNDISTURBED AREA	
	STABILIZED CONSTRUCTION ENTRANCE	
	SILT FENCE	
	INLET PROTECTION	
	TEMPORARY SEDIMENT TRAP	
	CULVERT INLET PROTECTION	
	ROCK OUTLET PROTECTION	
	ROCK CHECK DAM – COURSE AGGREGATE	
	ROCK CHECK DAM – RIP RAP	
	DITCH CHECK	

EXISTING		PROPOSED
	FIBER OPTIC LINE	
	UNDERGROUND TV CABLE	
	CABLE TV RISER PEDESTAL	
	OVERHEAD UTILITY	
	UNDERGROUND ELECTRIC	
	ELECTRIC RISER PEDESTAL	
	ELECTRIC MANHOLE	
	UNDERGROUND TELEPHONE	
	TELEPHONE RISER PEDESTAL	
	TELEPHONE MANHOLE	
	UTILITY POLE	
	UTILITY POLE W/ METER	
	UTILITY POLE W/ TRANSFORMER	
	UTILITY POLE W/ LIGHT	
	UTILITY POLE WITH GUY WIRE AND ANCHOR	
	LIGHT (MAST MOUNTED)	
	LIGHT POLE (SINGLE FIXTURE)	
	YARD LIGHT	
	GAS MAIN	
	GAS METER	
	GAS VALVE	
	GAS STRUCTURE	
	TRANSFORMER	
	GENERATOR	

EXISTING	TRAFFIC RELATED	PROPOSED
	CONTROLLER	
	MAST ARM ASSEMBLY AND POLE	
	SIGNAL HEAD AND POST	
	SIGNAL HEAD	
	PEDESTRIAN HEAD	
	PEDESTRIAN PUSH-BUTTON	
	HAND HOLE	
	DOUBLE HAND HOLE	
	HAND HOLE OR JUNCTION BOX	
	HEAVY-DUTY HAND HOLE	
$(5' - 2')$	EXISTING CONDUIT (LENGTH AND SIZE) PROP GALVANIZED STEEL OR PVC CONDUIT UPPER NUMERAL INDICATES LENGTH "T" INDICATES CONDUIT IN TRENCH "P" INDICATED CONDUIT PUSHED LOWER NUMERAL INDICATES SIZE AND TYPE	$\frac{5' - T}{2' GS-PVC}$
	LUMINAIRE	
	ARROW - THROUGH, TURN LEFT	
	ARROW - THROUGH	
	ARROW - TURN LEFT	
	ARROW - TURN RIGHT	
	ONE DIRECTION TURN ONLY	
	HANDICAPPED PARKING STALL	
	TRAFFIC DETECTOR LOOP	
	TRAFFIC CONTROL BOX	



FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS

IOWA

WISCONSIN

PLOT DATE: 2/24/25

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420 NORTH SIXTH STREET
ROCHELLE, IL 61068

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ROCHELLE, ILLINOIS
SEC 23-00118-00-RP

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DATE: 02/01/25

SCALE: AS NOTED

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DRAWING:

ALIGNMENT AND BENCHMARK LOCATIONS

SET TYPE: PRELIMINARY

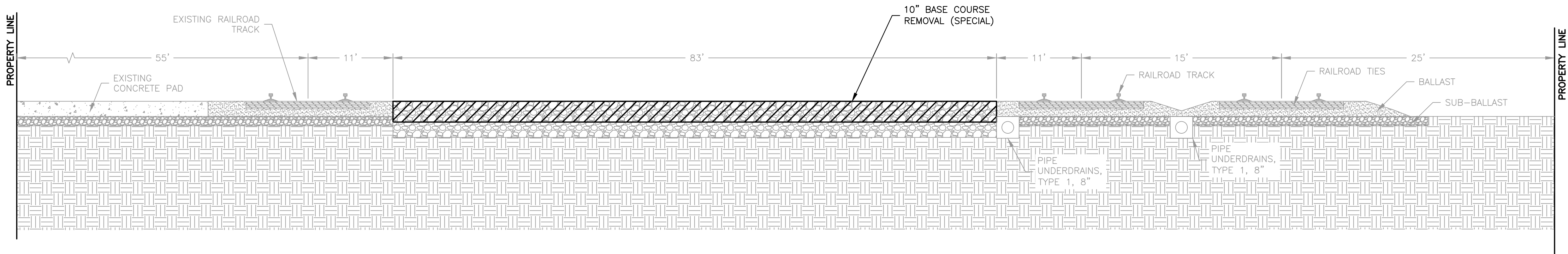
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22-1415

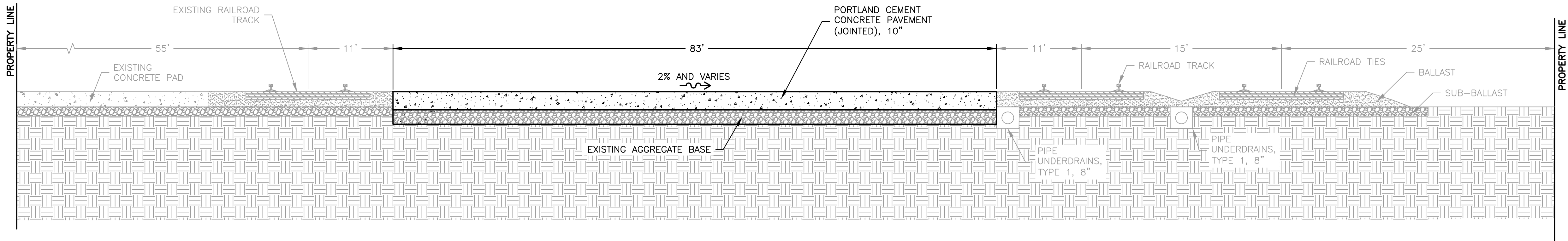
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EXISTING TYPICAL CONCRETE PAD CROSS SECTION

N.T.S.
STATION 409+87 TO STATION 423+63



PROPOSED TYPICAL CONCRETE PAD CROSS SECTION

N.T.S.
STATION 409+87 TO STATION 423+63

LEGEND

- CONCRETE PAVEMENT
- AGGREGATE BASE COURSE
- EXISTING GROUND
- BALLAST/SUBBALLAST
- 4" TOPSOIL AND EROSION CONTROL BLANKET

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TYPICAL SECTION 1

SET TYPE:

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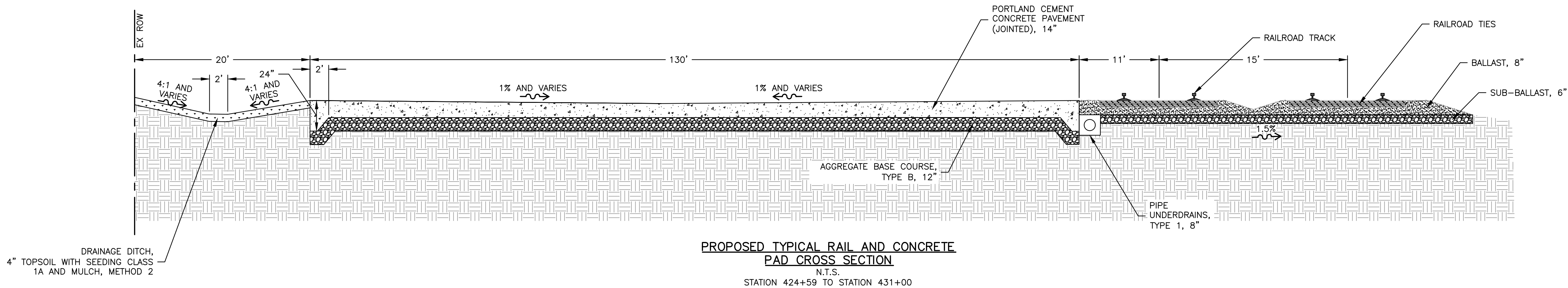
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JOB NUMBER:

22-1415

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LEGEND

- CONCRETE PAVEMENT
- AGGREGATE BASE COURSE
- EXISTING GROUND
- BALLAST/SUBBALLAST
- 4" TOPSOIL AND EROSION CONTROL BLANKET

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REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:

TYPICAL SECTION 2

SET TYPE:

PRELIMINARY

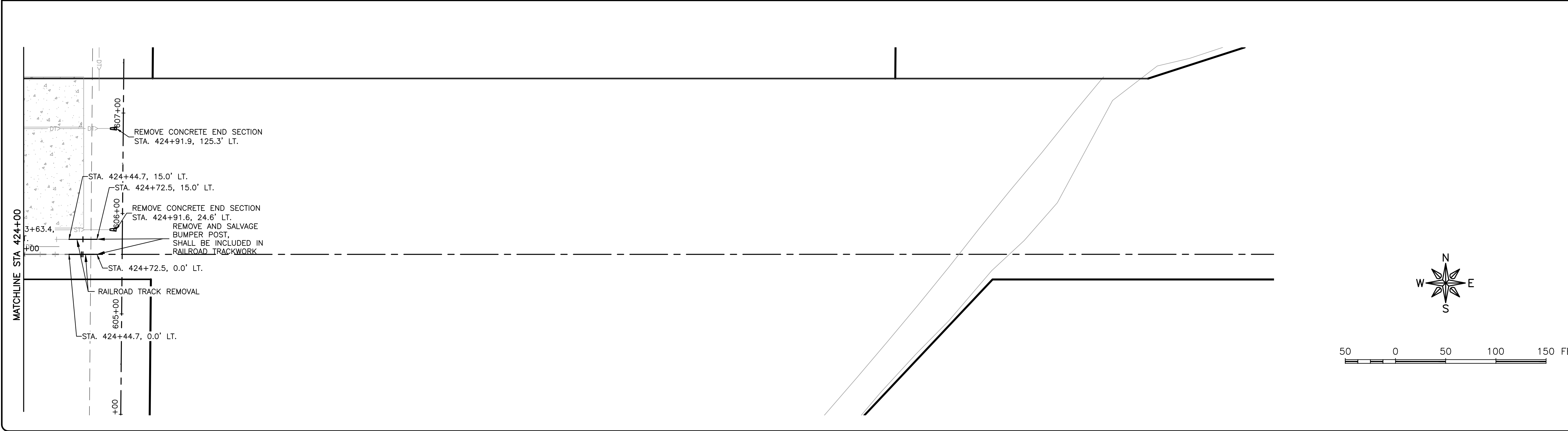
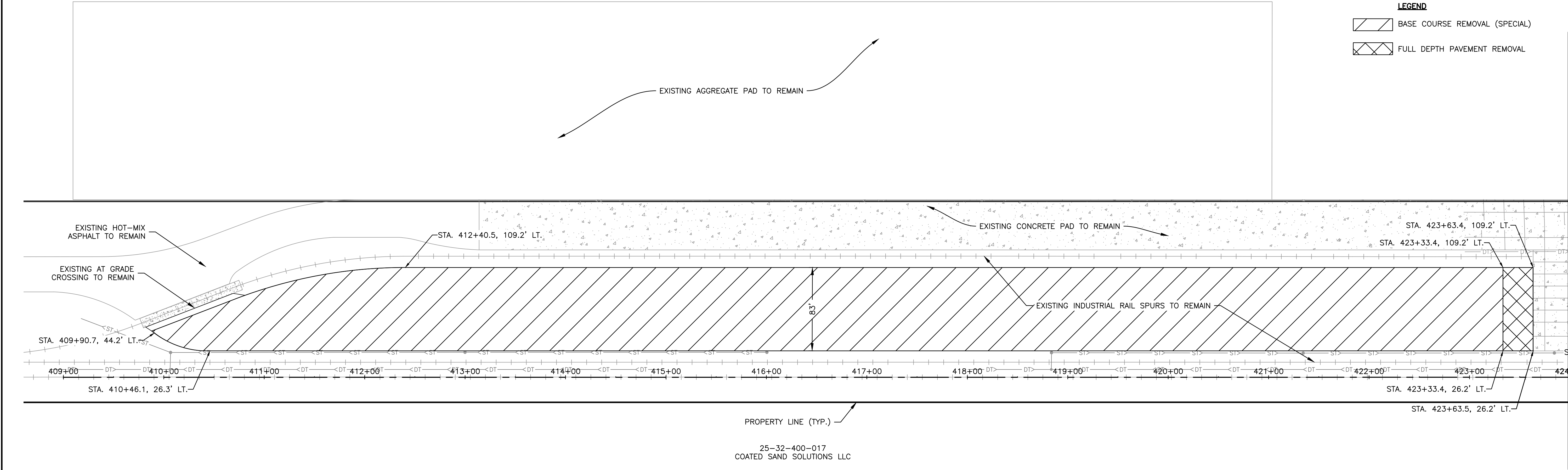
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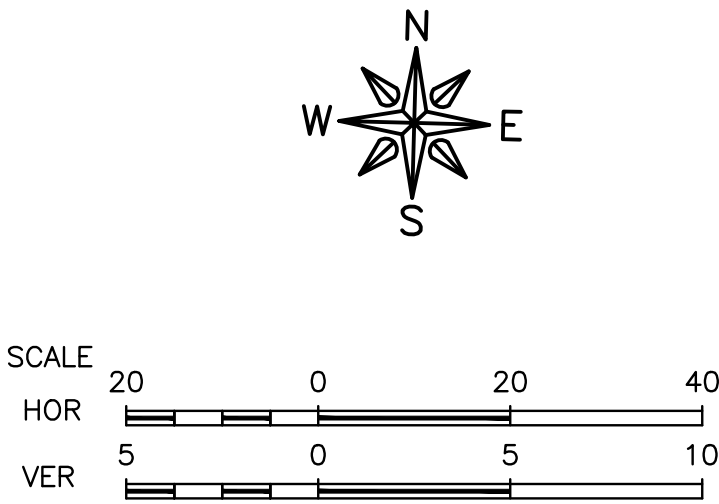
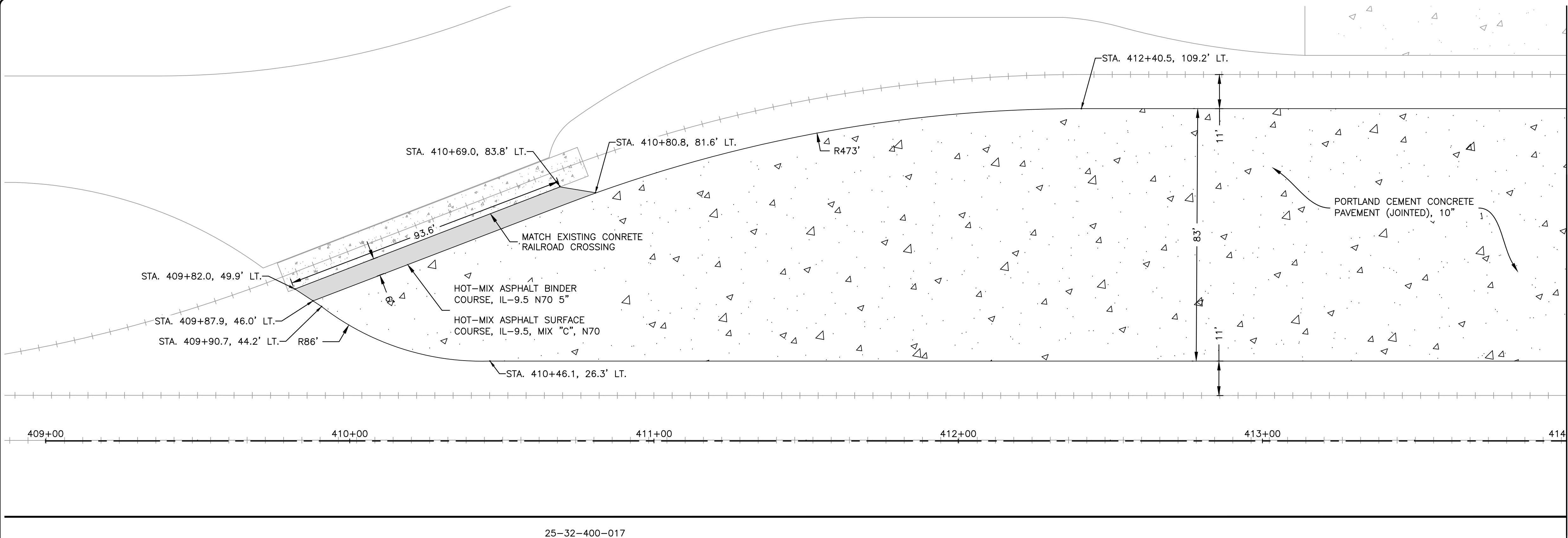
DRAWING:
REMOVAL PLAN

SET TYPE: PRELIMINARY
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JOB NUMBER:
22-1415

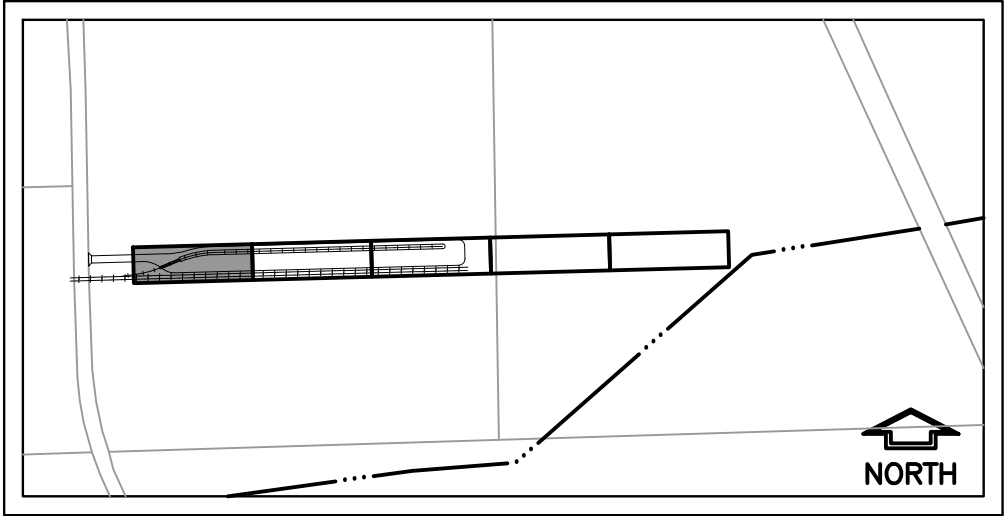
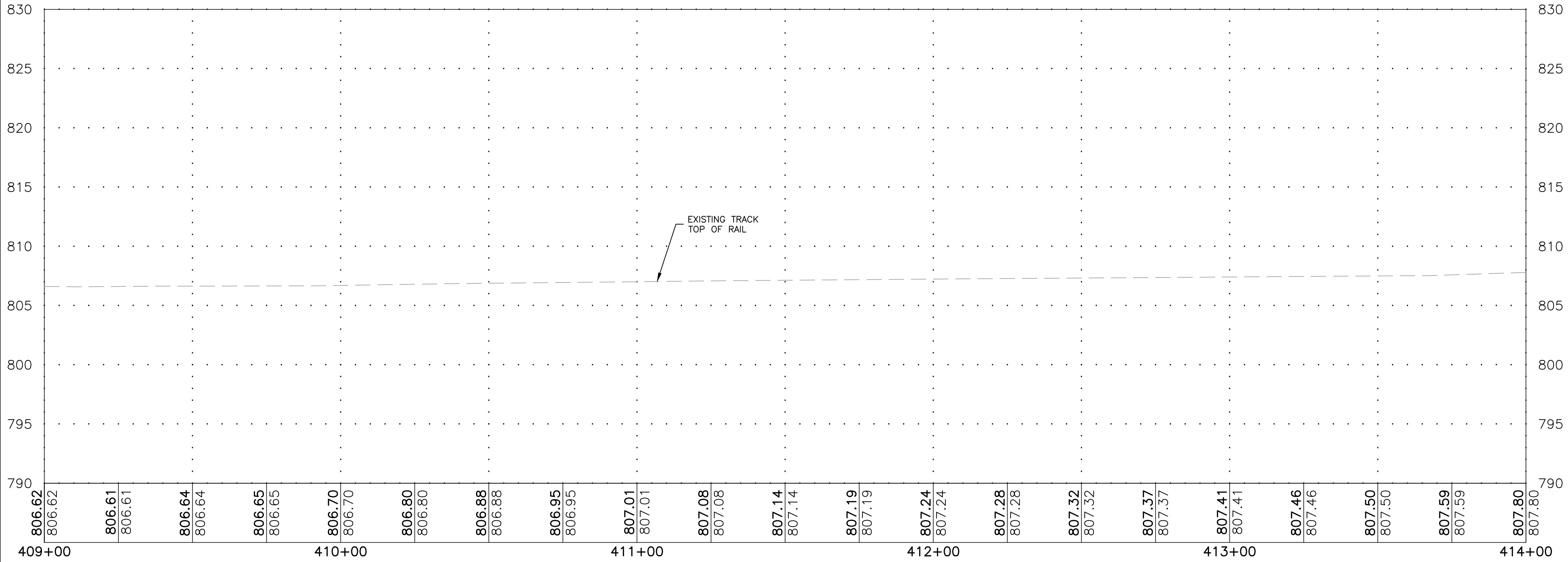
SHEET NUMBER:
10 of 50

PLOT DATE: 2/24/25
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SEE SHEET 12
MATCHLINE STA 414+00

25-32-400-017
COATED SAND SOLUTIONS LLC



KEY MAP

FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:

CITY OF ROCHELLE
420 NORTH SIXTH STREET
ROCHELLE, IL 61068

PROJECT AND LOCATION:

TRANSLOAD INTERMODAL EXPANSION
ROCHELLE, ILLINOIS
SEC 23-00118-00-RP

DRAWN BY: YJ
APPROVED BY: NJC
DATE: 02/01/25
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:

PLAN AND PROFILE 409+00 TO STA 414+00

SET TYPE:

PRELIMINARY

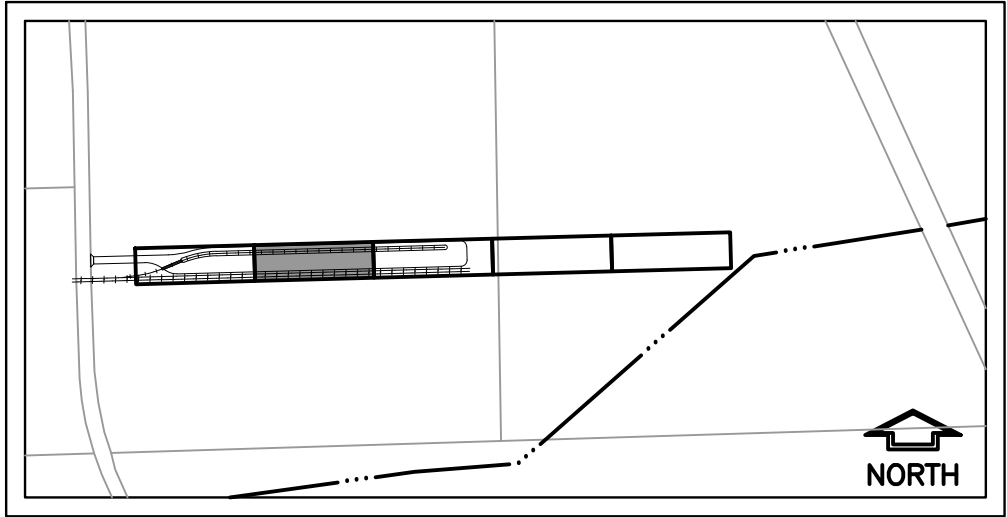
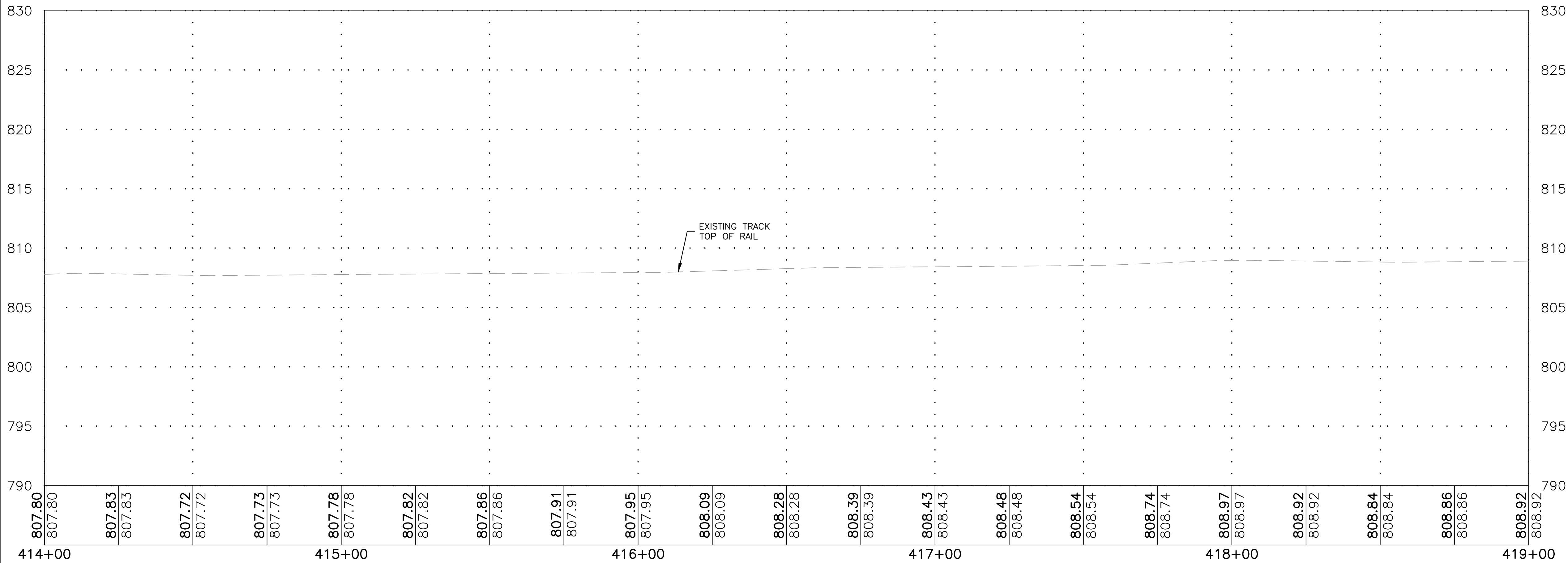
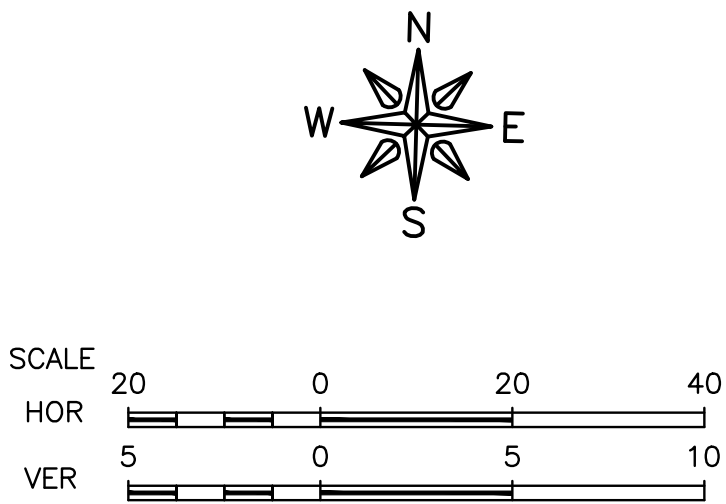
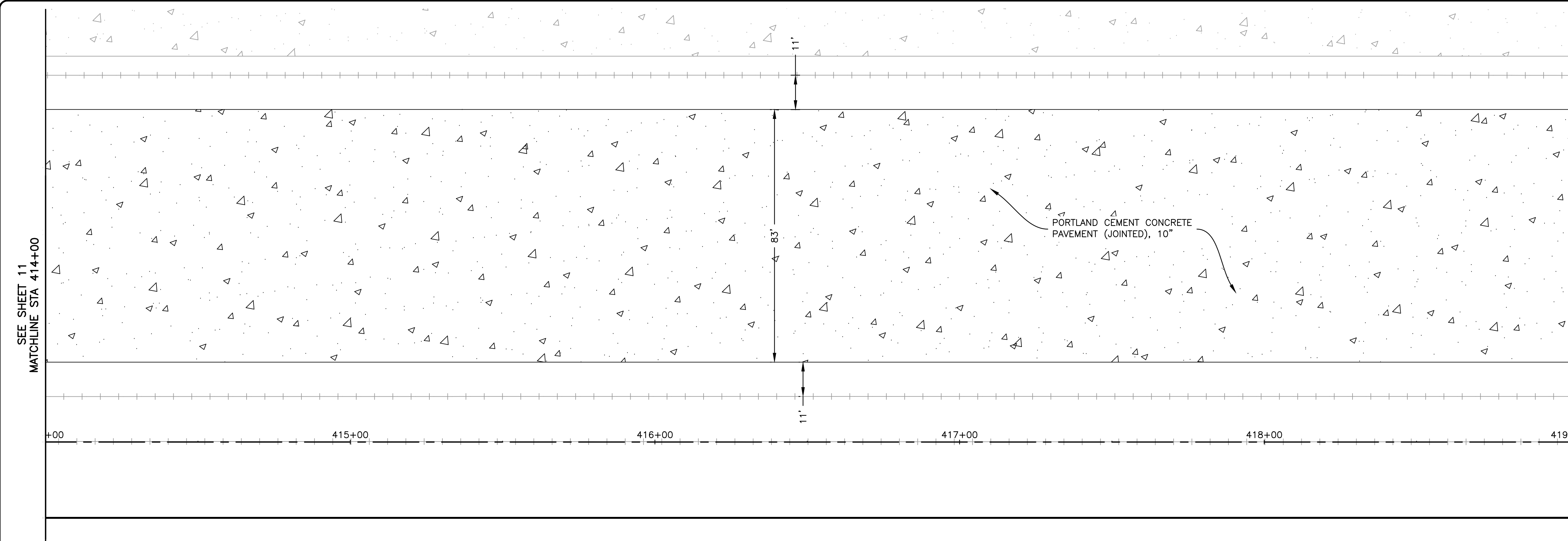
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JOB NUMBER:

22-1415

SHEET NUMBER:

11 of 50



KEY MAP

FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:

CITY OF ROCHELLE
420 NORTH SIXTH STREET
ROCHELLE, IL 61068

PROJECT AND LOCATION:

TRANSLOAD INTERMODAL EXPANSION
ROCHELLE, ILLINOIS
SEC 23-00118-00-RP

DRAWN BY: YJ
APPROVED BY: NJC
DATE: 02/01/25
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:

PLAN AND PROFILE 415+00 TO STA 419+00

SET TYPE:

PRELIMINARY

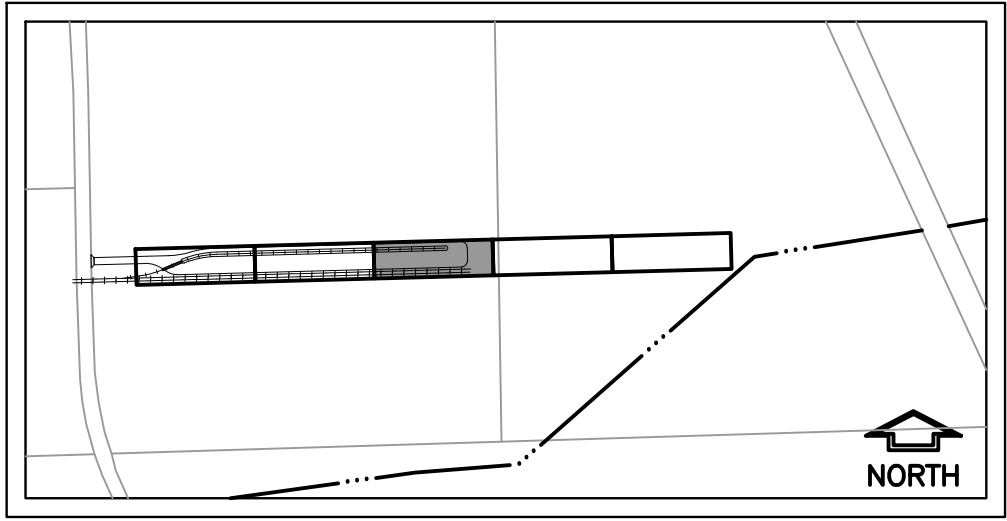
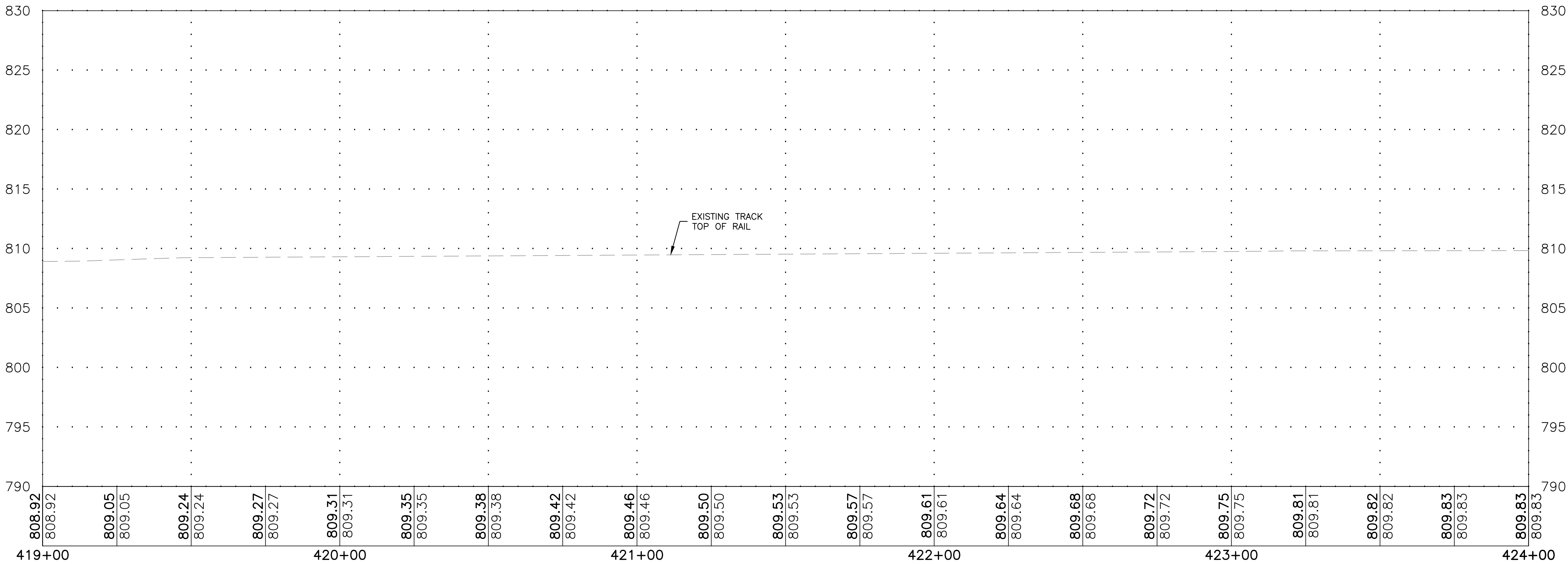
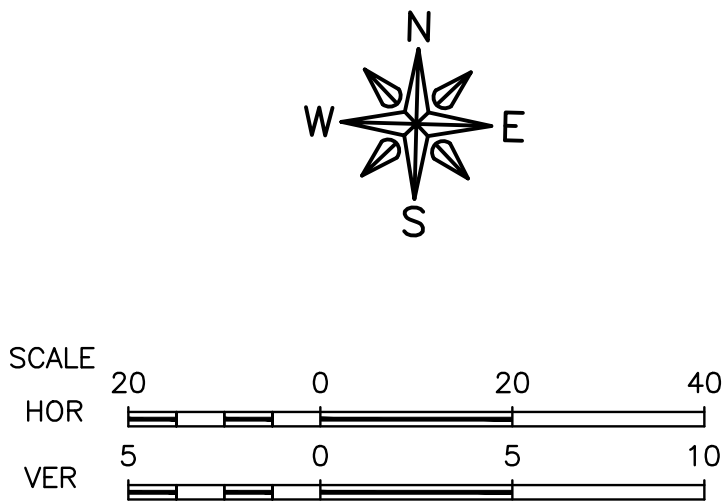
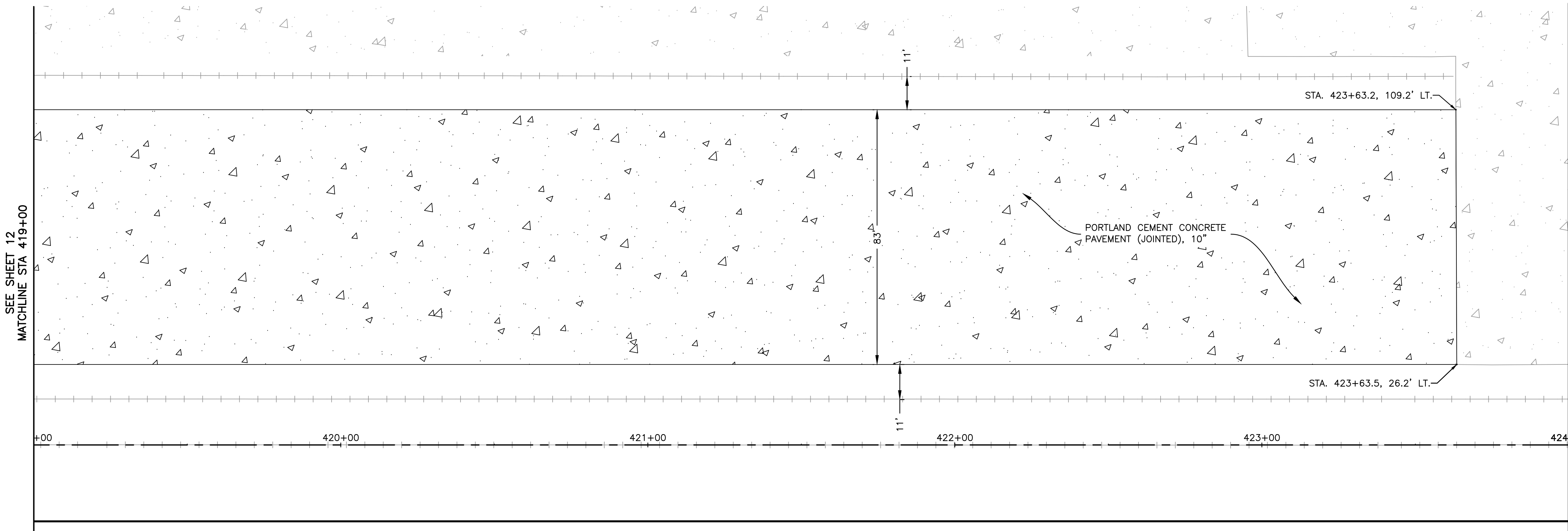
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JOB NUMBER:

22-1415

SHEET NUMBER:

12 of 50



KEY MAP

FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:

CITY OF ROCHELLE
420 NORTH SIXTH STREET
ROCHELLE, IL 61068

PROJECT AND LOCATION:

TRANSLOAD INTERMODAL EXPANSION
ROCHELLE, ILLINOIS
SEC 23-00118-00-RP

DRAWN BY: YJ
APPROVED BY: NJC
DATE: 02/01/25
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:

PLAN AND PROFILE 419+00 TO STA
424+00

SET TYPE:

PRELIMINARY

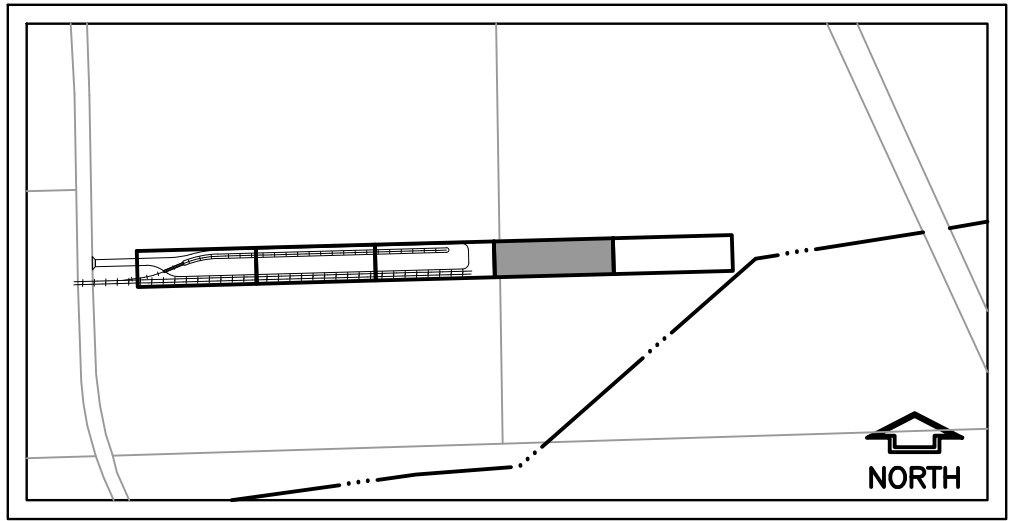
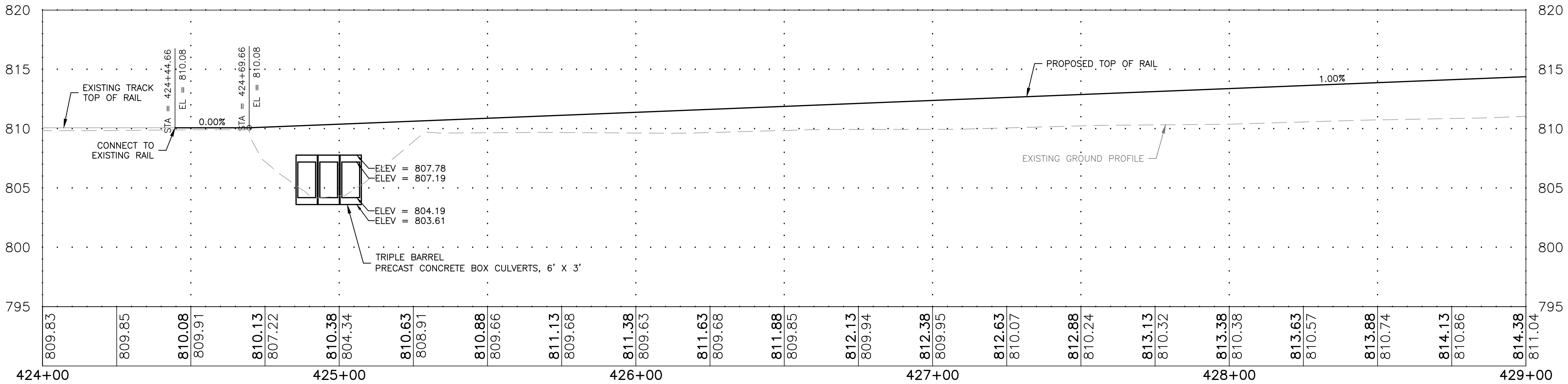
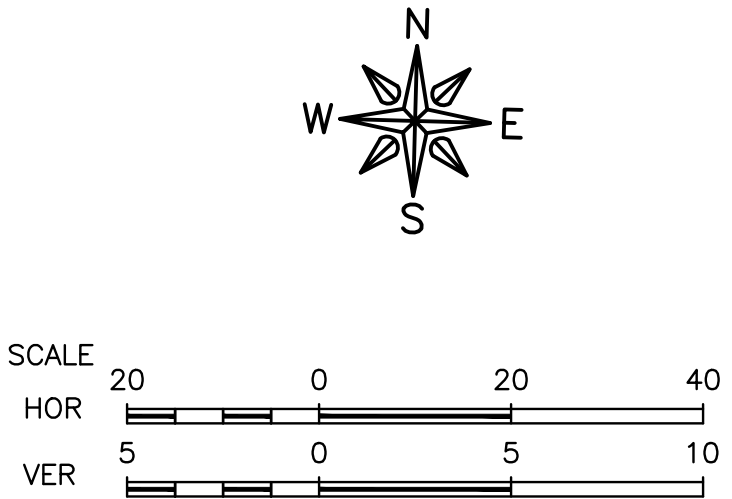
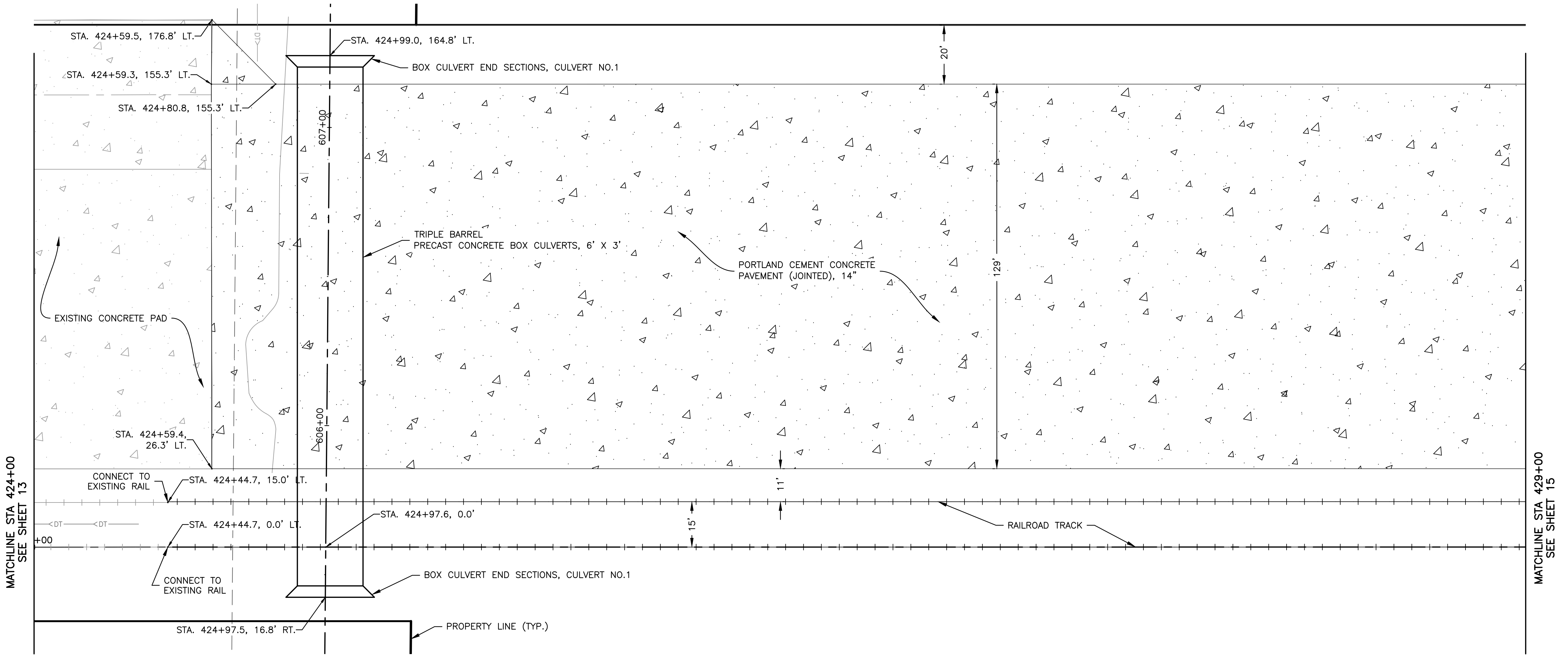
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JOB NUMBER:

22-1415

SHEET NUMBER:

13 of 50



FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:

CITY OF ROCHELLE
420 NORTH SIXTH STREET
ROCHELLE, IL 61068

PROJECT AND LOCATION:

TRANSLOAD INTERMODAL EXPANSION
ROCHELLE, ILLINOIS
SEC 23-00118-00-RP

DRAWN BY: YJ
APPROVED BY: NJC
DATE: 02/01/25
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:

PLAN AND PROFILE STA
424+00 TO 429+00

SET TYPE:

PRELIMINARY

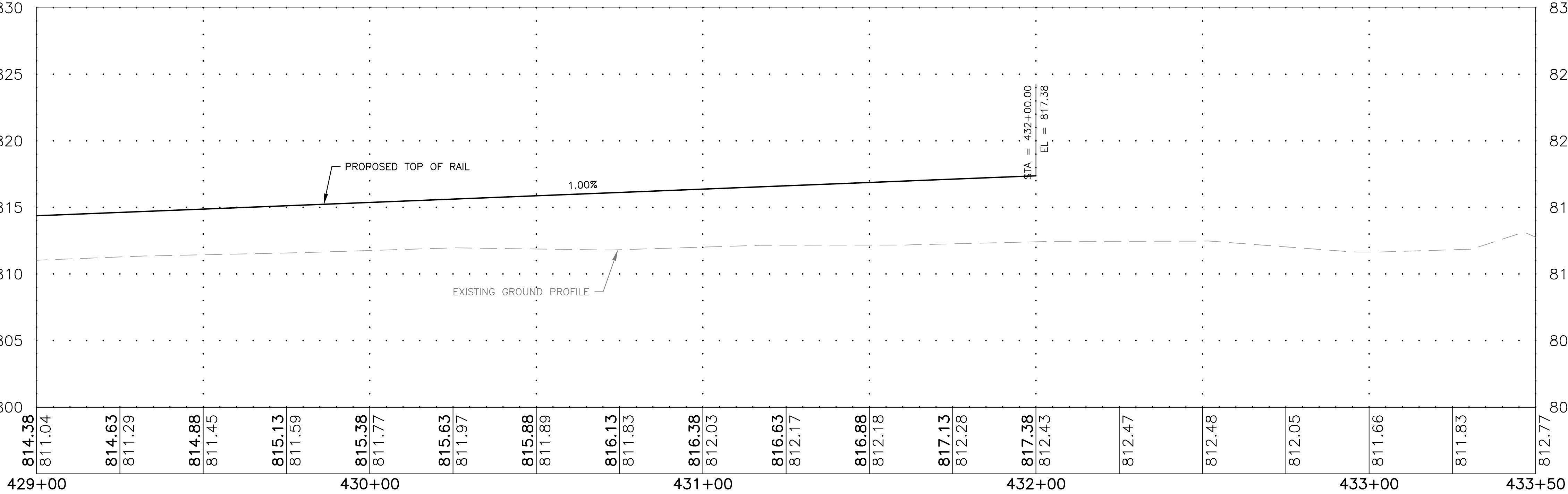
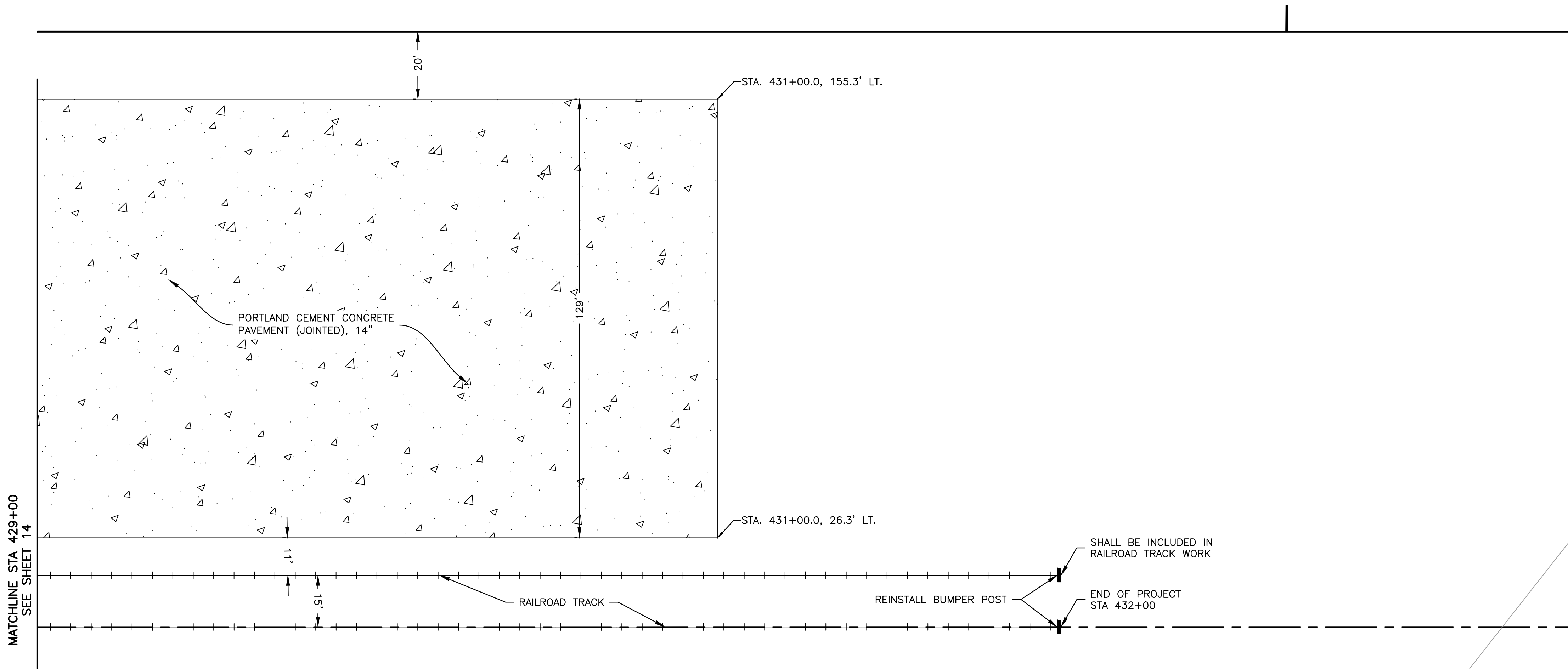
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JOB NUMBER:

22-1415

SHEET NUMBER:

14 of 50



FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS

IOWA

WISCONSIN

PLOT DATE: 2/24/25

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OWNER/DEVELOPER:

CITY OF ROCHELLE
420 NORTH SIXTH STREET
ROCHELLE, IL 61068

PROJECT AND LOCATION:

TRANSLOAD INTERMODAL EXPANSION
ROCHELLE, ILLINOIS
SEC 23-00118-00-RP

DRAWN BY: YJ

APPROVED BY: NJC

DATE: 02/01/25

SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:

PLAN AND PROFILE STA
429+00 TO 434+00

SET TYPE: PRELIMINARY

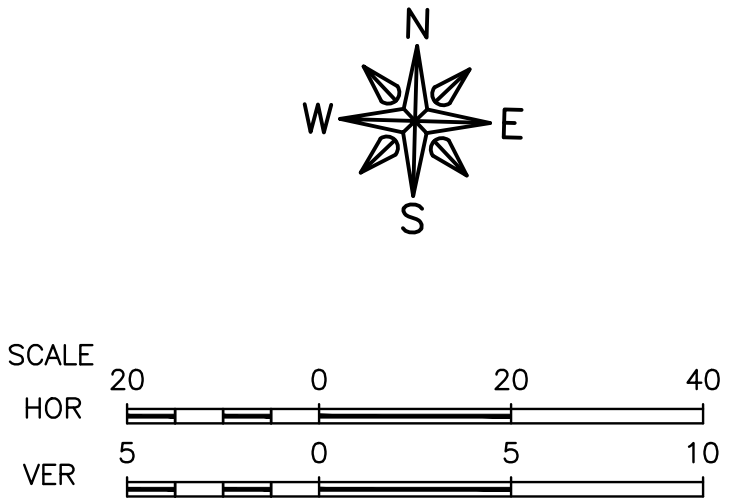
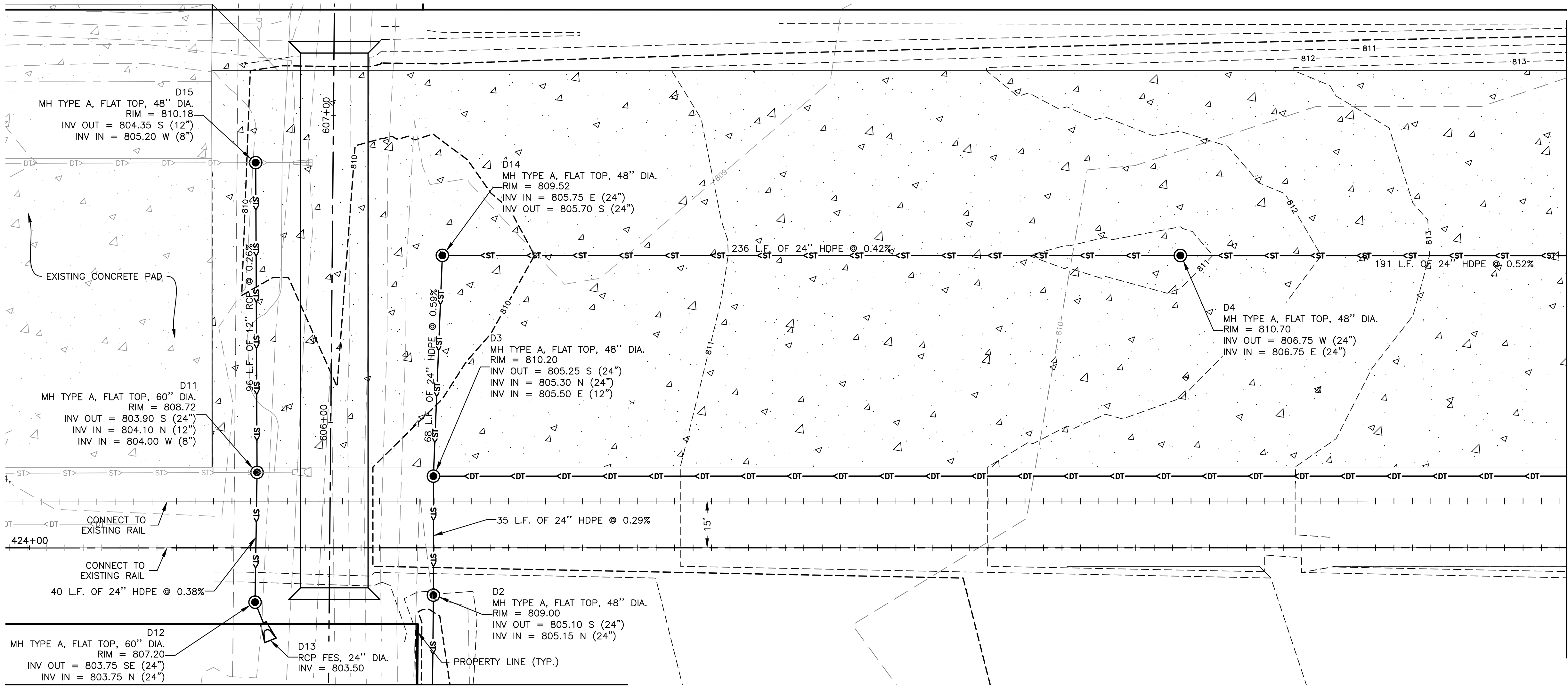
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JOB NUMBER:

22-1415

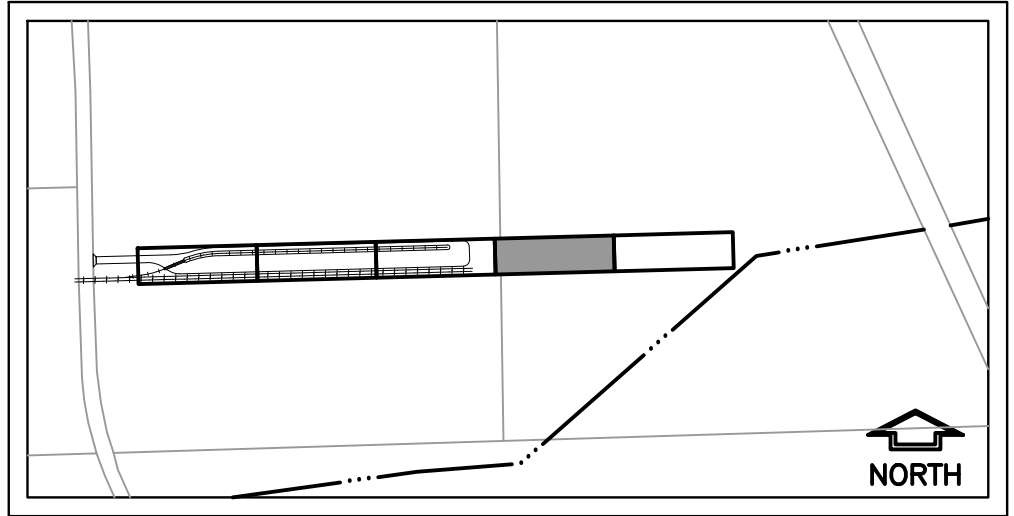
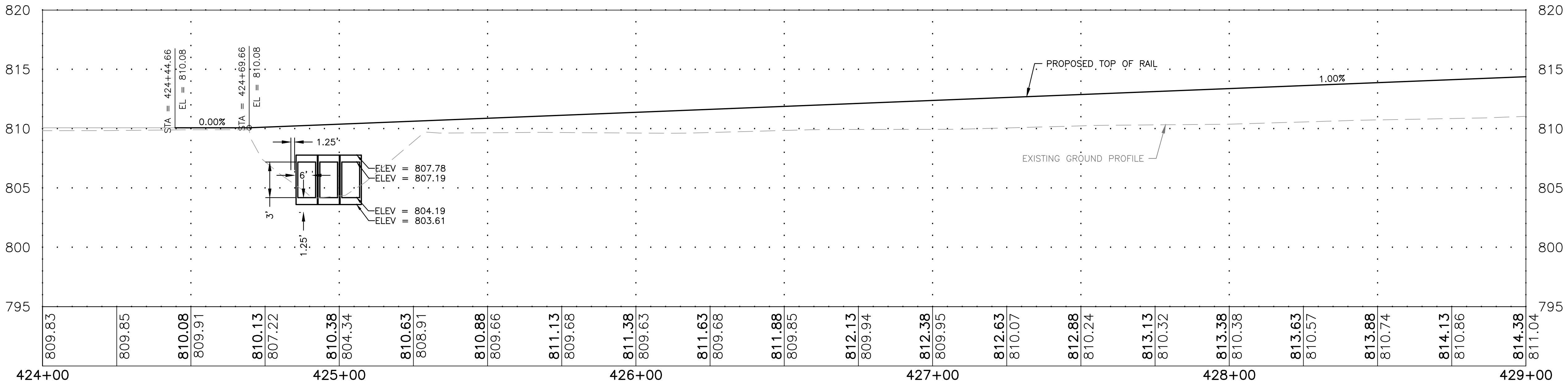
SHEET NUMBER:

15 of 50



MATCHLINE STA 429+00
SEE SHEET 17

SEE SHEET 23 AND 24
FOR DRAINAGE AND GRADING



FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:

CITY OF ROCHELLE
420 NORTH SIXTH STREET
ROCHELLE, IL 61068

PROJECT AND LOCATION:

TRANSLOAD INTERMODAL EXPANSION
ROCHELLE, ILLINOIS
SEC 23-00118-00-RP

DRAWN BY: YJ
APPROVED BY: NJC
DATE: 02/01/25
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:

DRAINAGE PLAN AND PROFILE
STA 424+00 TO 429+00

SET TYPE:

PRELIMINARY

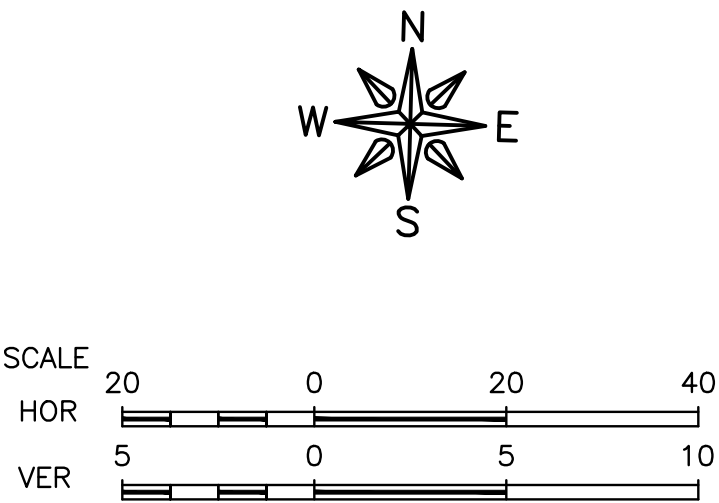
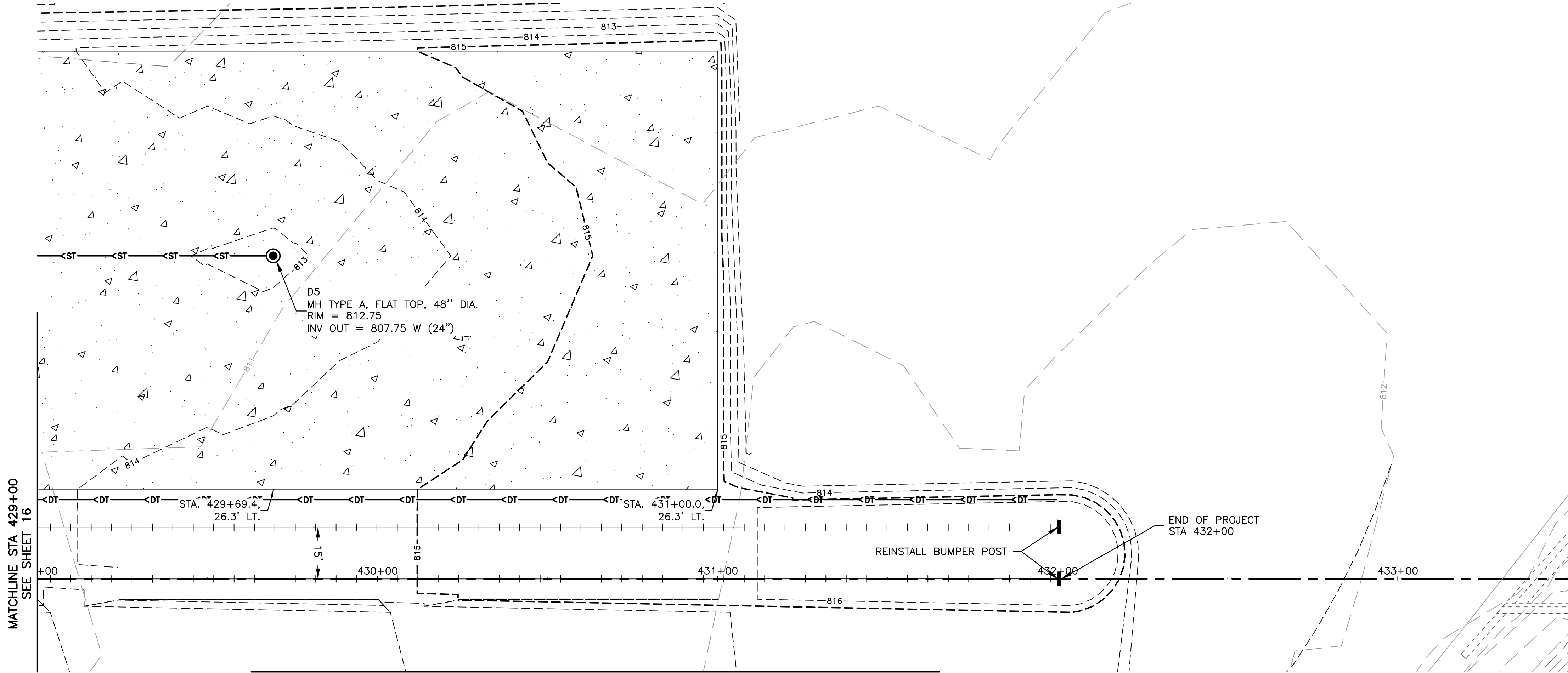
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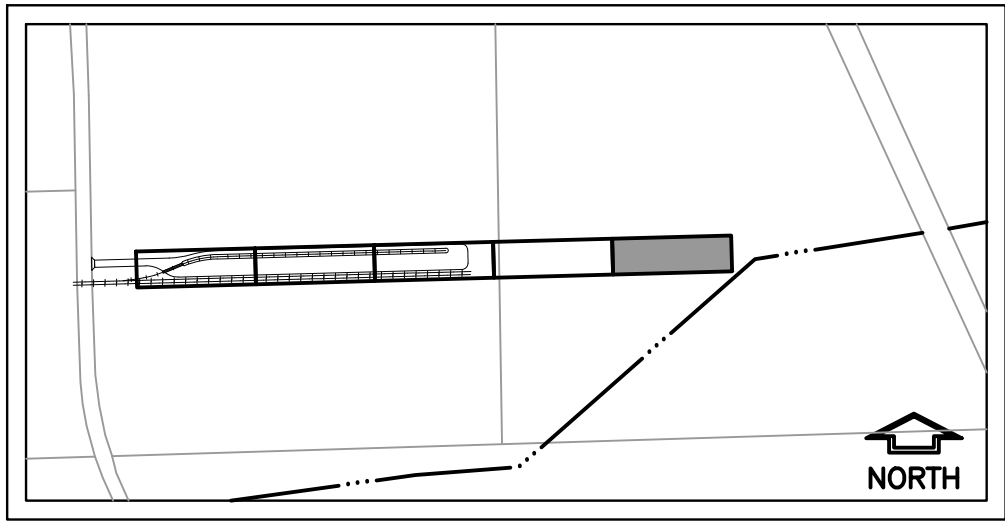
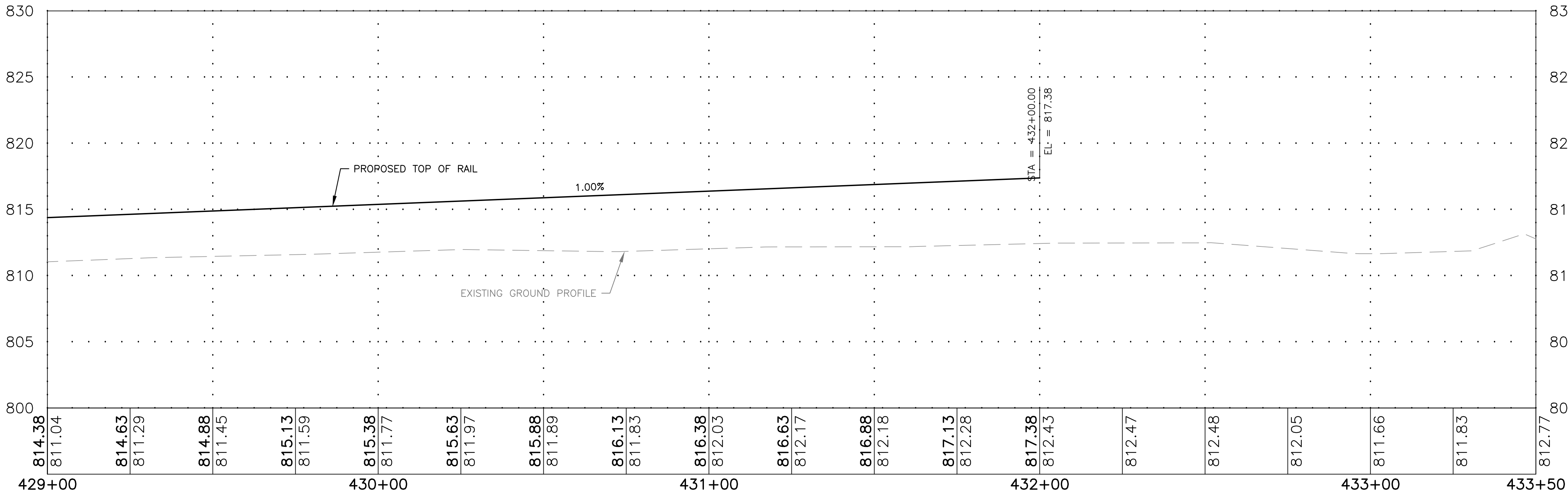
22-1415

SHEET NUMBER:

16 of 50



SEE SHEETS 23 AND 24
FOR DRAINAGE AND GRADING



KEY MAP

FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:

CITY OF ROCHELLE
420 NORTH SIXTH STREET
ROCHELLE, IL 61068

PROJECT AND LOCATION:

TRANSLOAD INTERMODAL EXPANSION
ROCHELLE, ILLINOIS
SEC 23-00118-00-RP

DRAWN BY: YJ
APPROVED BY: NJC
DATE: 02/01/25
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:

DRAINAGE PLAN AND PROFILE
STA 429+00 TO 433+50

SET TYPE:

PRELIMINARY

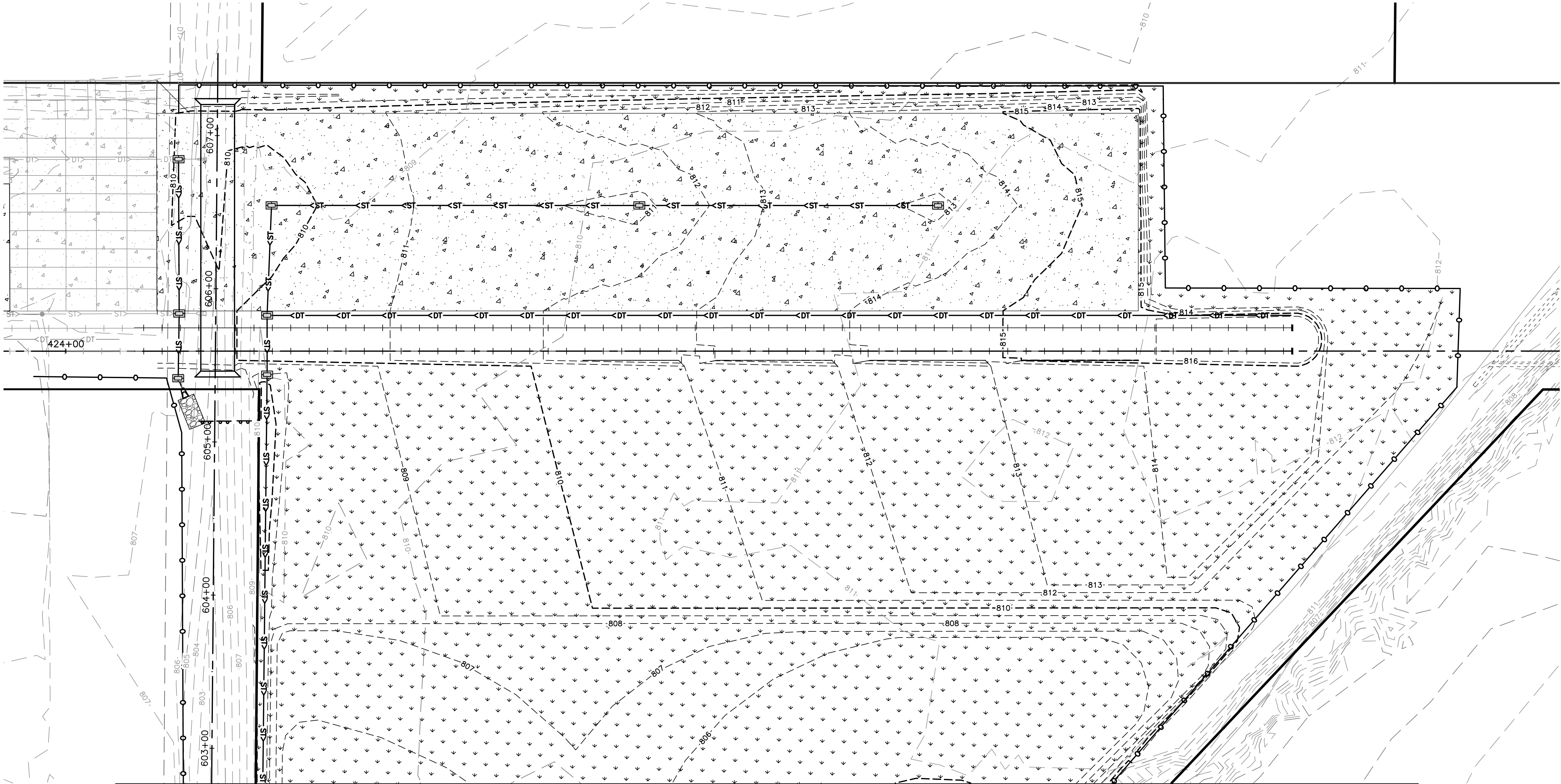
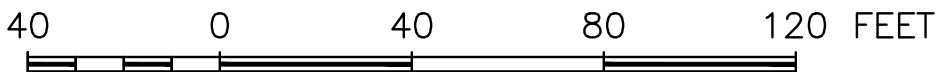
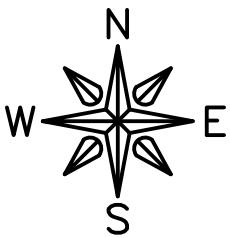
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JOB NUMBER:

22-1415

SHEET NUMBER:

17 of 50



LEGEND

- PERIMETER EROSION BARRIER
- PERMANENT SEEDING AND MULCH, METHOD 2
- EROSION CONTROL BLANKET
- RIP RAP, RR3 AND FILTER FABRIC
- INLET AND PIPE PROTECTION
- TEMPORARY DITCH CHECK
- INLET FILTER, BASKET TYPE
- STABILIZED CONSTRUCTION ENTRANCE

SEE SHEET 19

FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS

IOWA

WISCONSIN

OWNER/DEVELOPER:

CITY OF ROCHELLE
420 NORTH SIXTH STREET
ROCHELLE, IL 61068

PROJECT AND LOCATION:

TRANSLOAD INTERMODAL EXPANSION
ROCHELLE, ILLINOIS
SEC 23-00118-00-RP

DRAWN BY: YJ
APPROVED BY: NJC
DATE: 02/01/25
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:

EROSION CONTROL PLAN

SET TYPE:

PRELIMINARY

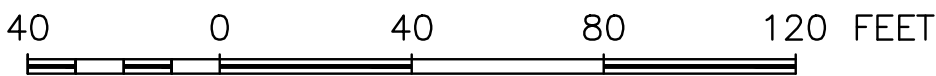
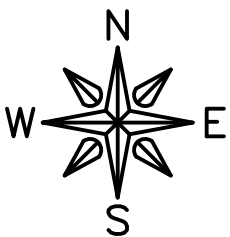
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JOB NUMBER:

22-1415

SHEET NUMBER:

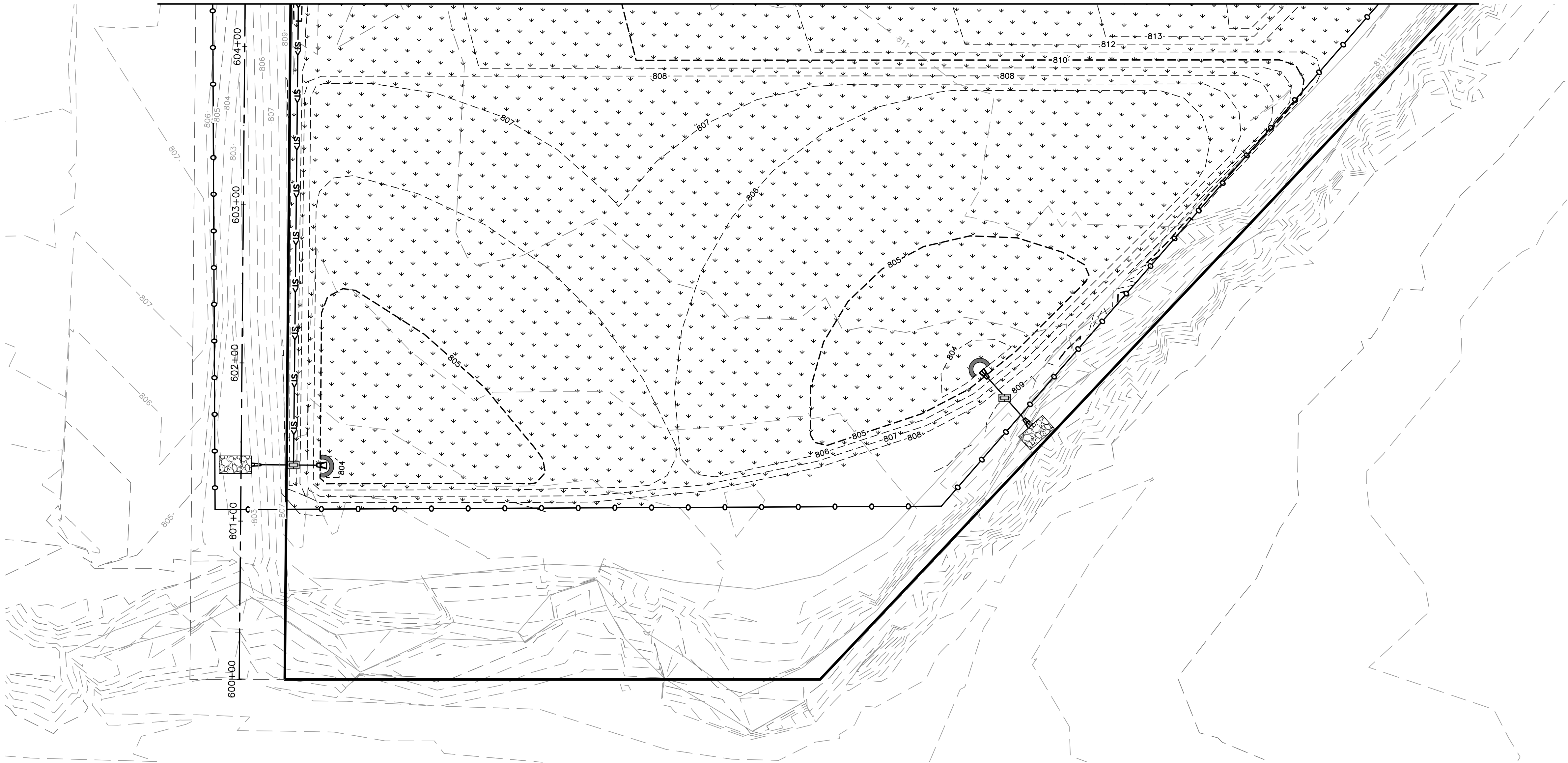
18 of 50



LEGEND

- PERIMETER EROSION BARRIER
- PERMANENT SEEDING AND MULCH, METHOD 2
- EROSION CONTROL BLANKET
- RIP RAP, RR3 AND FILTER FABRIC
- INLET AND PIPE PROTECTION
- TEMPORARY DITCH CHECK
- INLET FILTER, BASKET TYPE
- STABILIZED CONSTRUCTION ENTRANCE

SEE SHEET 18



FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:

CITY OF ROCHELLE
420 NORTH SIXTH STREET
ROCHELLE, IL 61068

PROJECT AND LOCATION:

TRANSLOAD INTERMODAL EXPANSION
ROCHELLE, ILLINOIS
SEC 23-00118-00-RP

DRAWN BY: YJ
APPROVED BY: NJC
DATE: 02/01/25
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:

EROSION CONTROL PLAN

SET TYPE:

PRELIMINARY

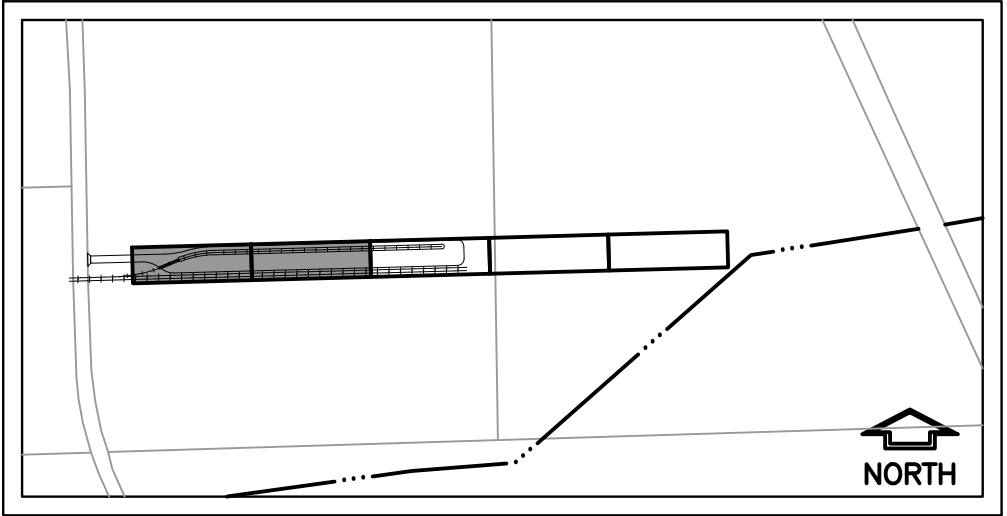
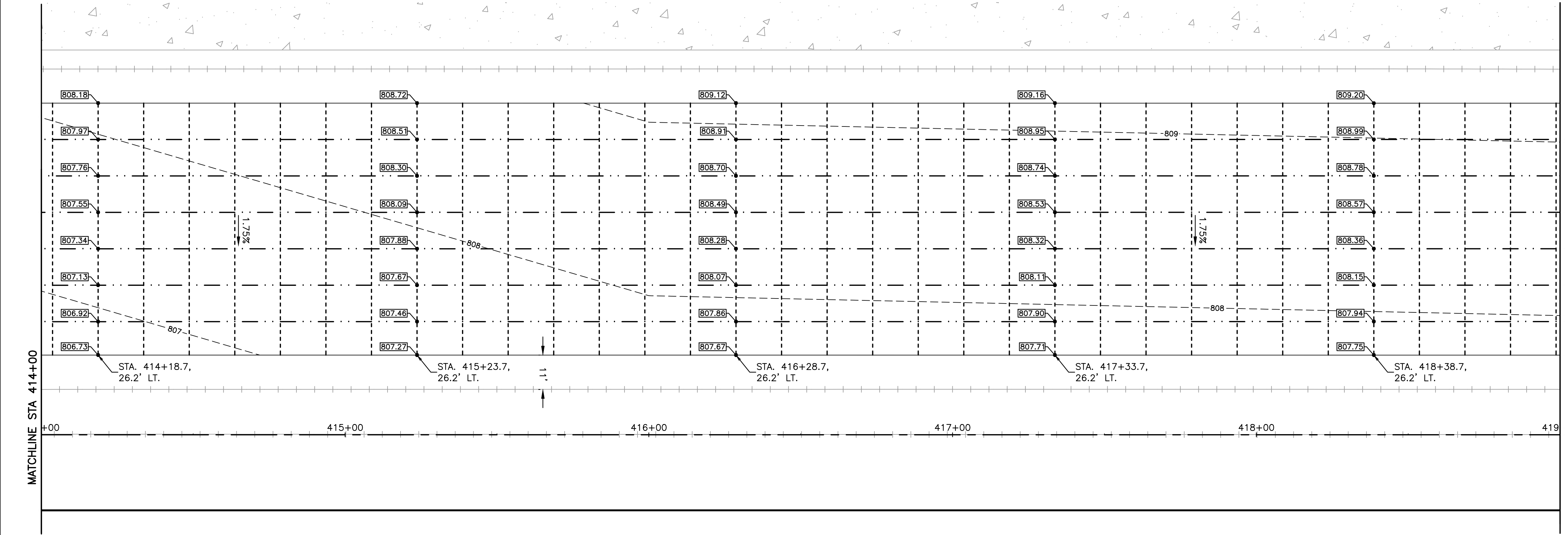
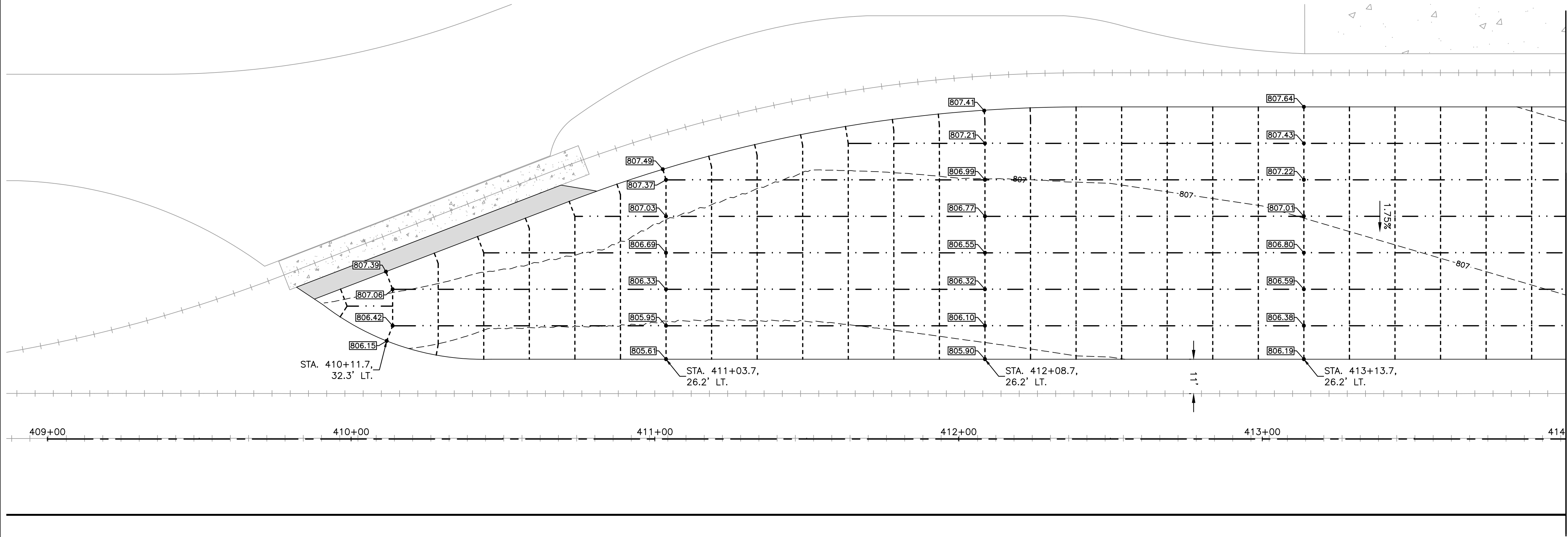
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JOB NUMBER:

22-1415

SHEET NUMBER:

19 of 50



FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:

CITY OF ROCHELLE
420 NORTH SIXTH STREET
ROCHELLE, IL 61068

PROJECT AND LOCATION:

TRANSLOAD INTERMODAL EXPANSION
ROCHELLE, ILLINOIS
SEC 23-00118-00-RP

DRAWN BY: YJ
APPROVED BY: NJC
DATE: 02/01/25
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:

GRADING PLAN

SET TYPE:

PRELIMINARY

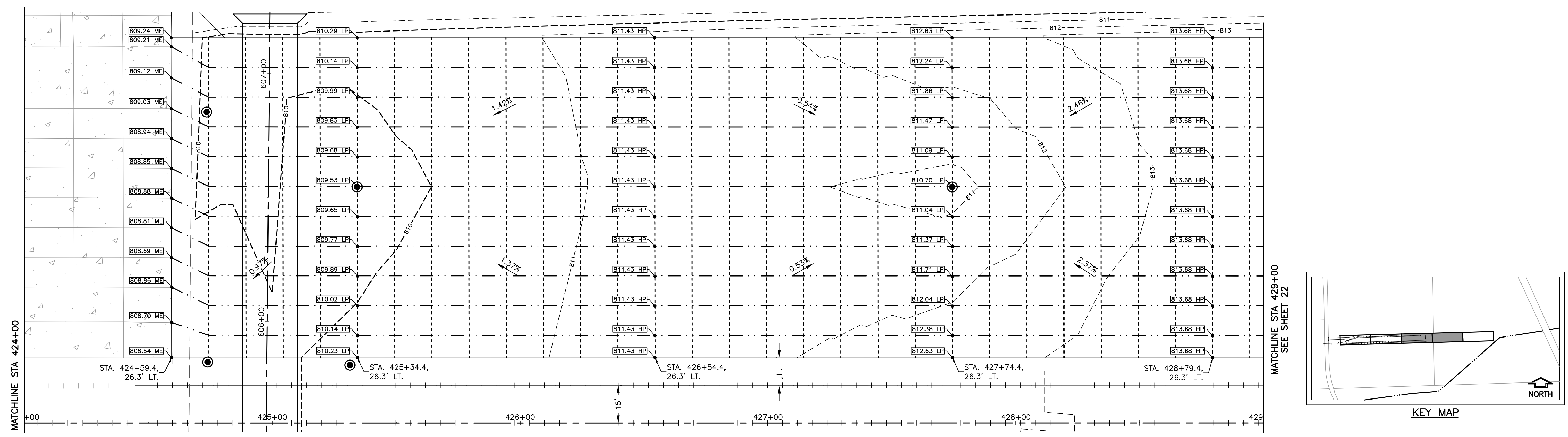
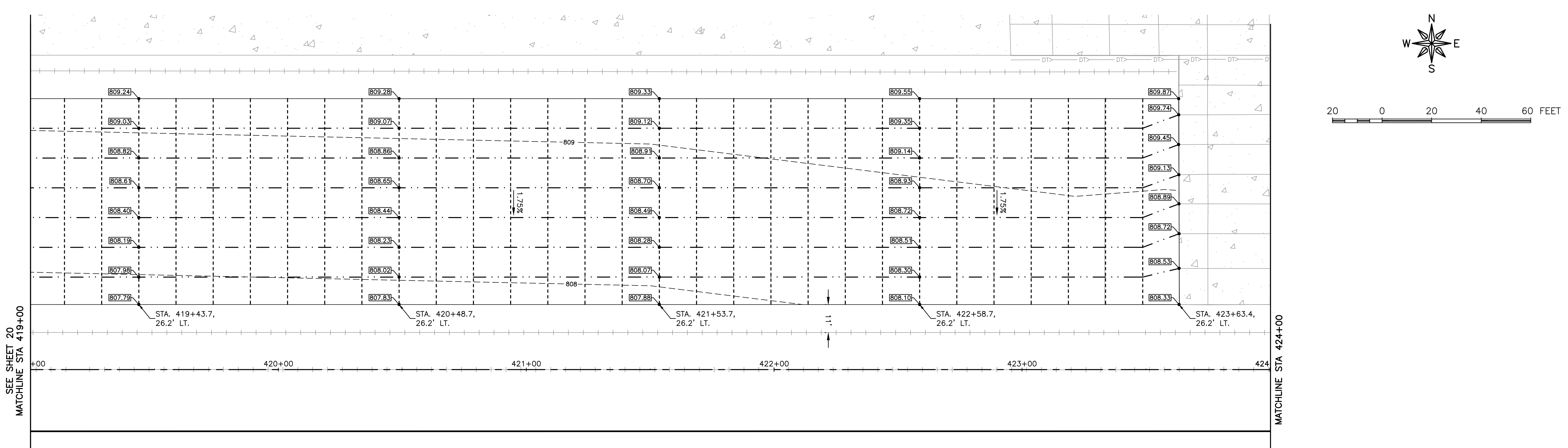
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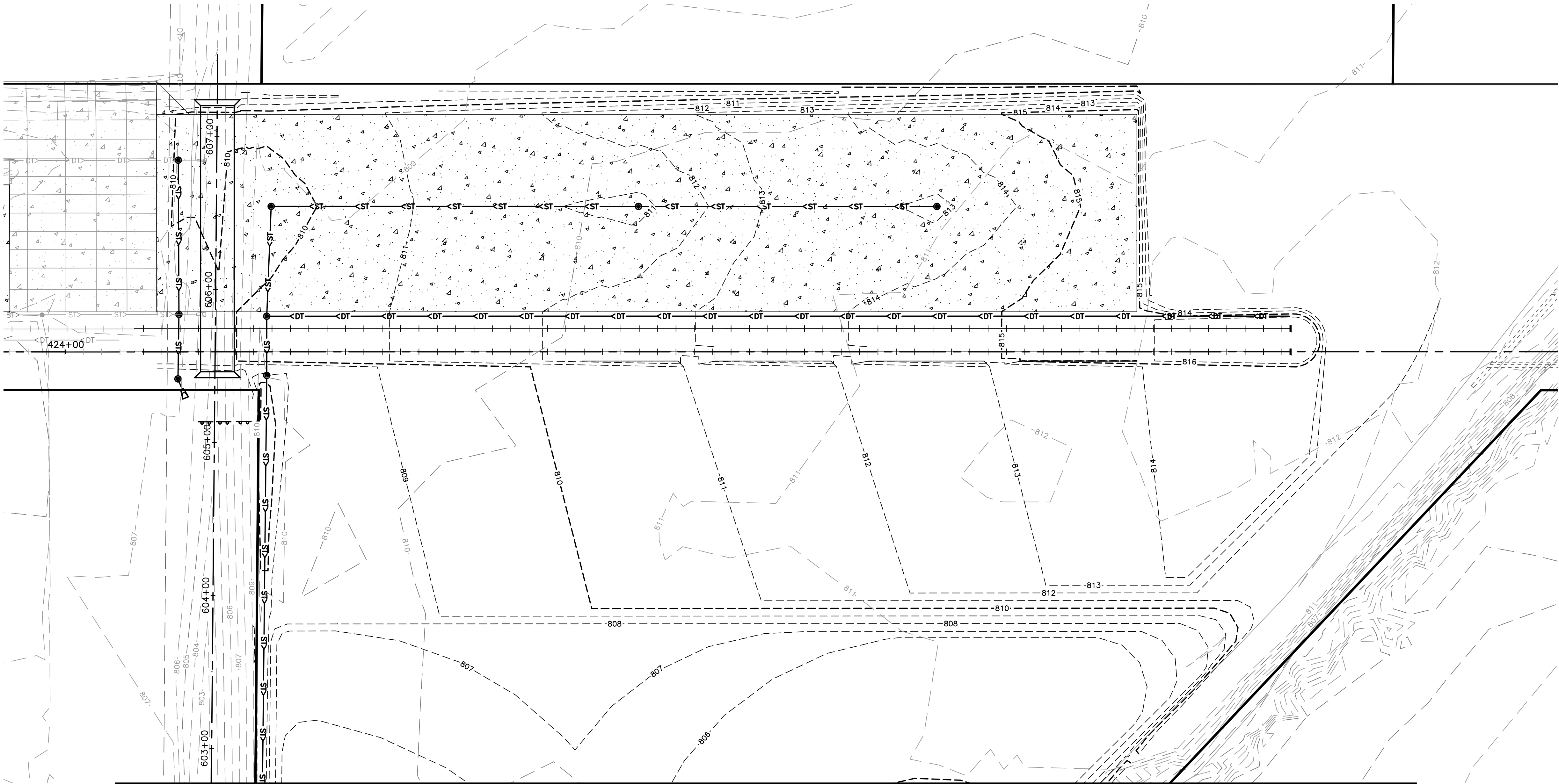
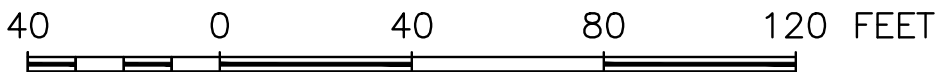
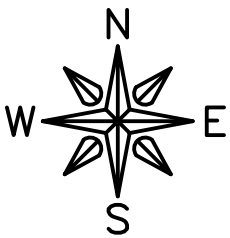
22-1415

SHEET NUMBER:

20 of 50



REVISIONS		
REV. NO.	DESCRIPTION	DATE



SEE SHEET 24

FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS

IOWA

WISCONSIN

OWNER/DEVELOPER:

CITY OF ROCHELLE
420 NORTH SIXTH STREET
ROCHELLE, IL 61068

PROJECT AND LOCATION:

TRANSLOAD INTERMODAL EXPANSION
ROCHELLE, ILLINOIS
SEC 23-00118-00-RP

DRAWN BY: YJ
APPROVED BY: NJC
DATE: 02/01/25
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:

GRADING PLAN

SET TYPE:

PRELIMINARY

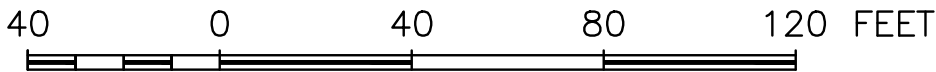
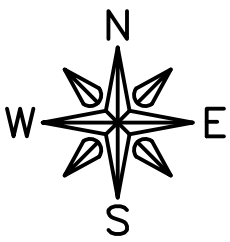
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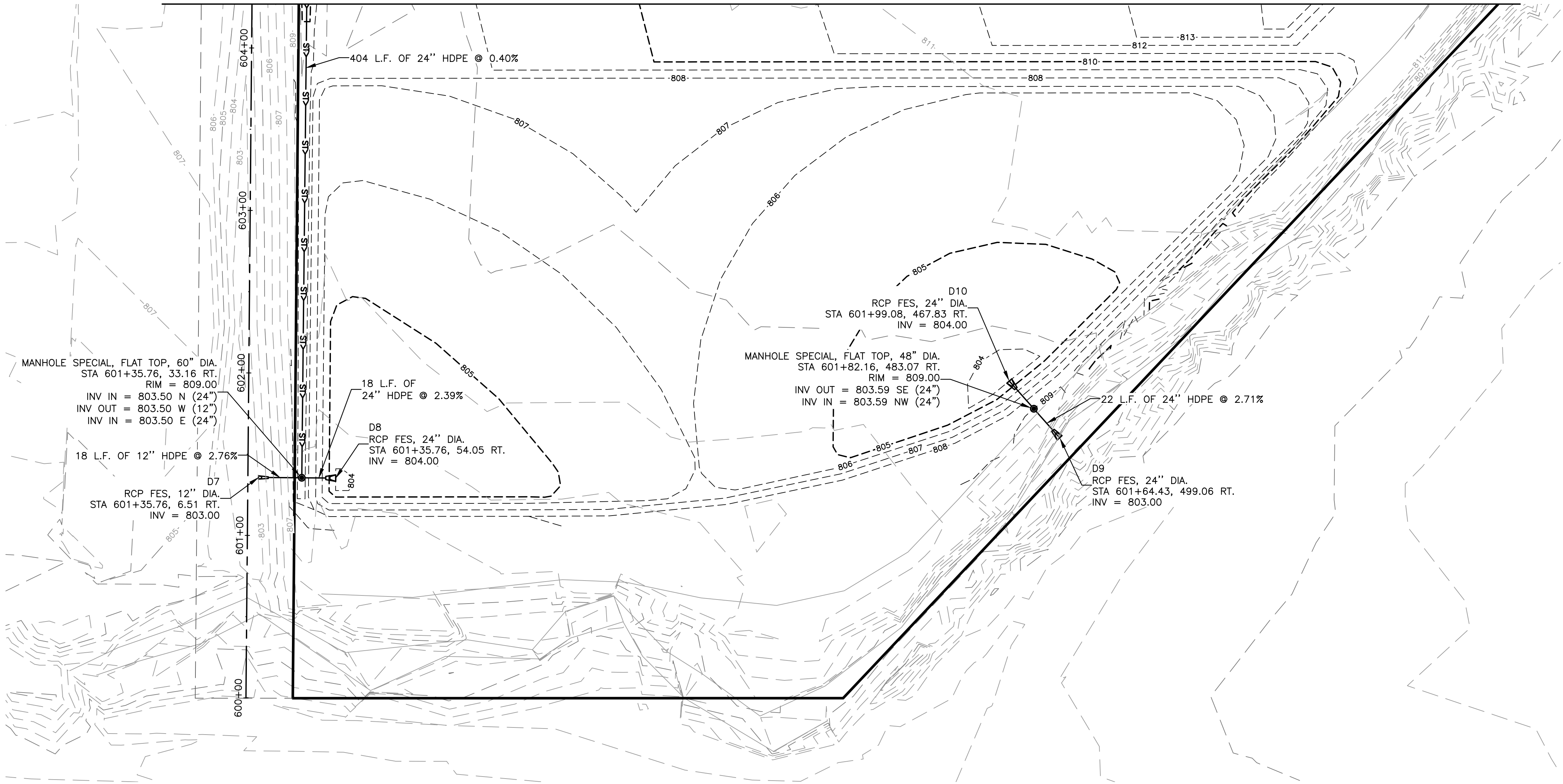
22-1415

SHEET NUMBER:

23 of 50



SEE SHEET 23



FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS

IOWA

WISCONSIN

OWNER/DEVELOPER:

CITY OF ROCHELLE
420 NORTH SIXTH STREET
ROCHELLE, IL 61068

PROJECT AND LOCATION:

TRANSLOAD INTERMODAL EXPANSION
ROCHELLE, ILLINOIS
SEC 23-00118-00-RP

DRAWN BY: YJ
APPROVED BY: NJC
DATE: 02/01/25
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:

GRADING PLAN

SET TYPE:

PRELIMINARY

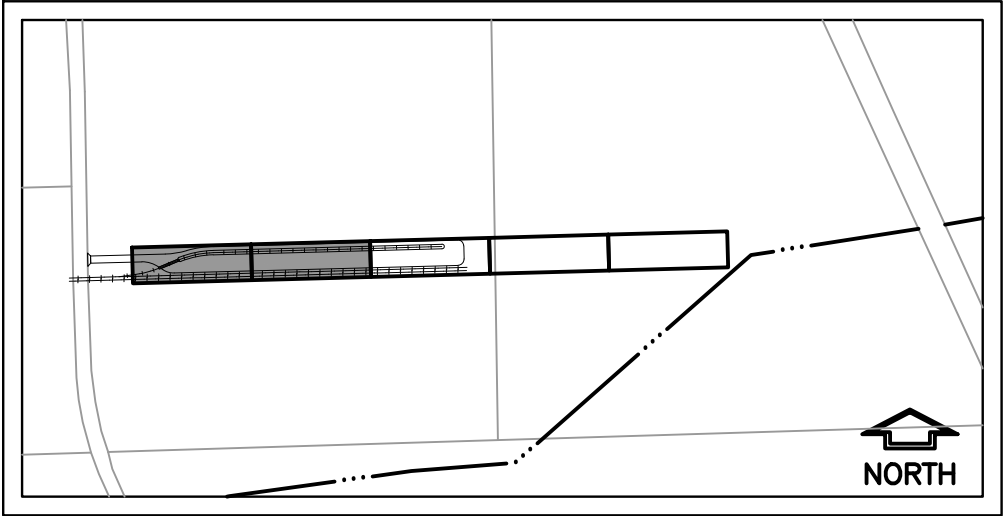
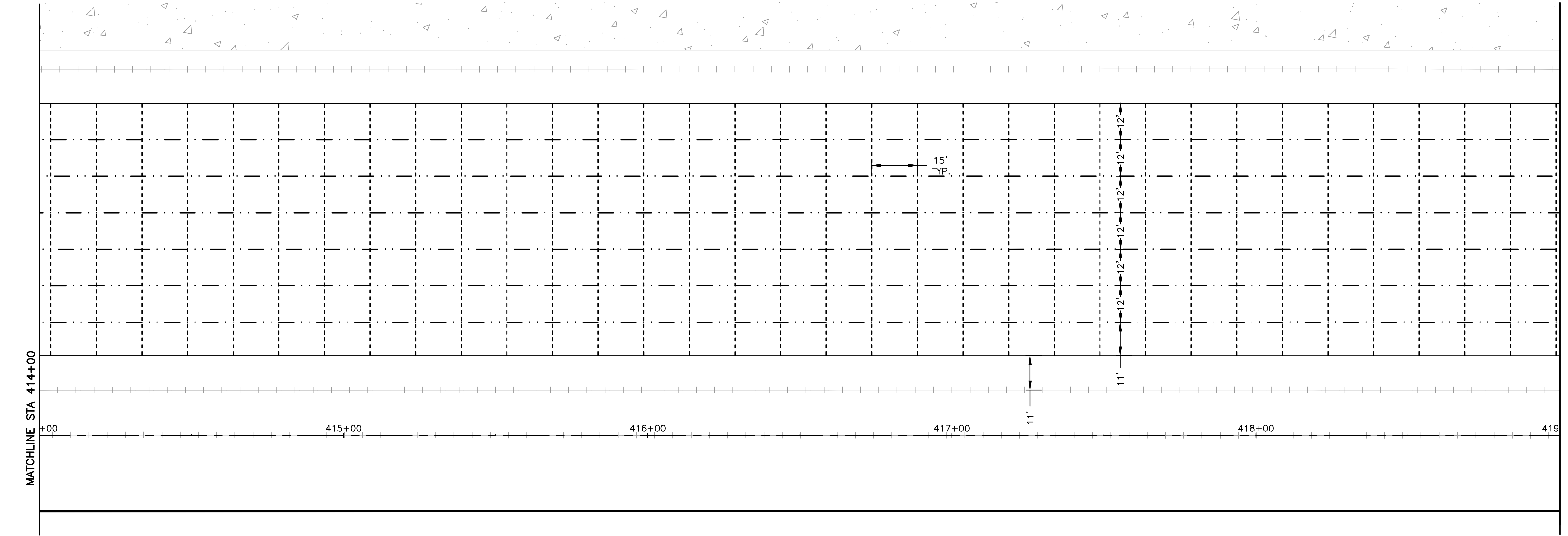
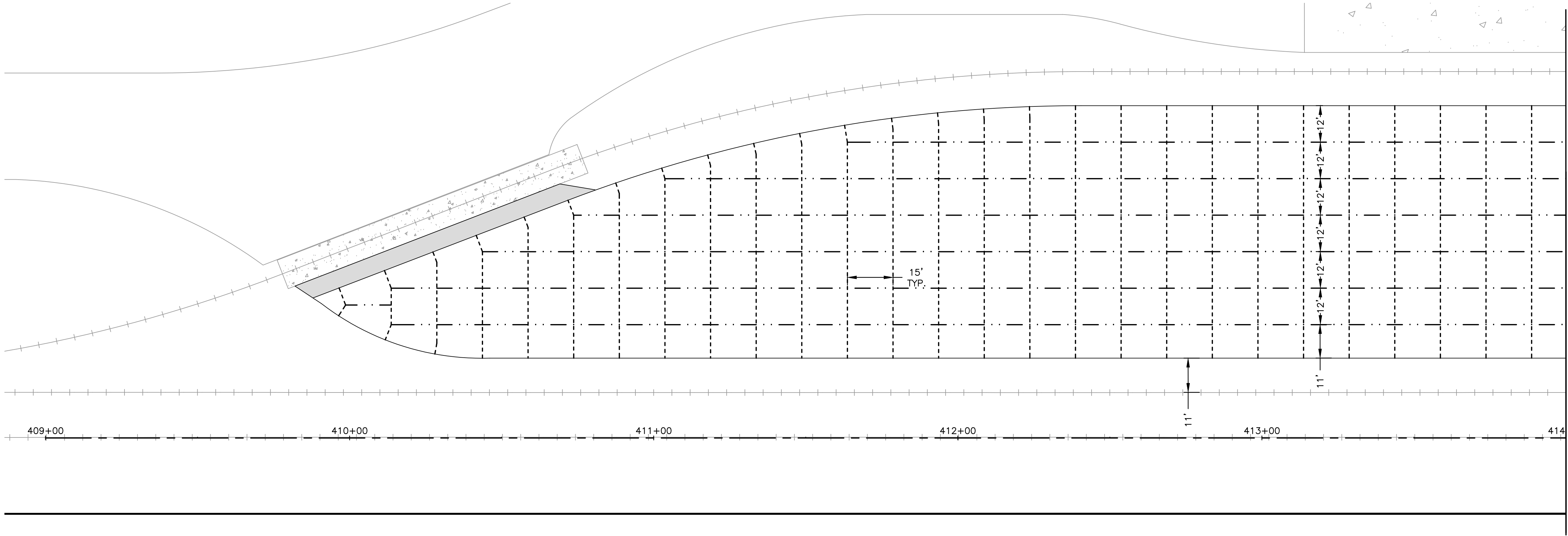
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JOB NUMBER:

22-1415

SHEET NUMBER:

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FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:

CITY OF ROCHELLE
420 NORTH SIXTH STREET
ROCHELLE, IL 61068

PROJECT AND LOCATION:

TRANSLOAD INTERMODAL EXPANSION
ROCHELLE, ILLINOIS
SEC 23-00118-00-RP

DRAWN BY: YJ
APPROVED BY: NJC
DATE: 02/01/25
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:

PAVEMENT JOINT PLAN

SET TYPE:

PRELIMINARY

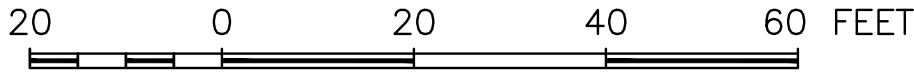
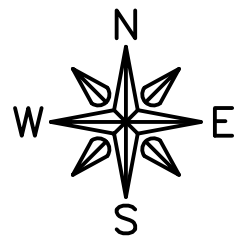
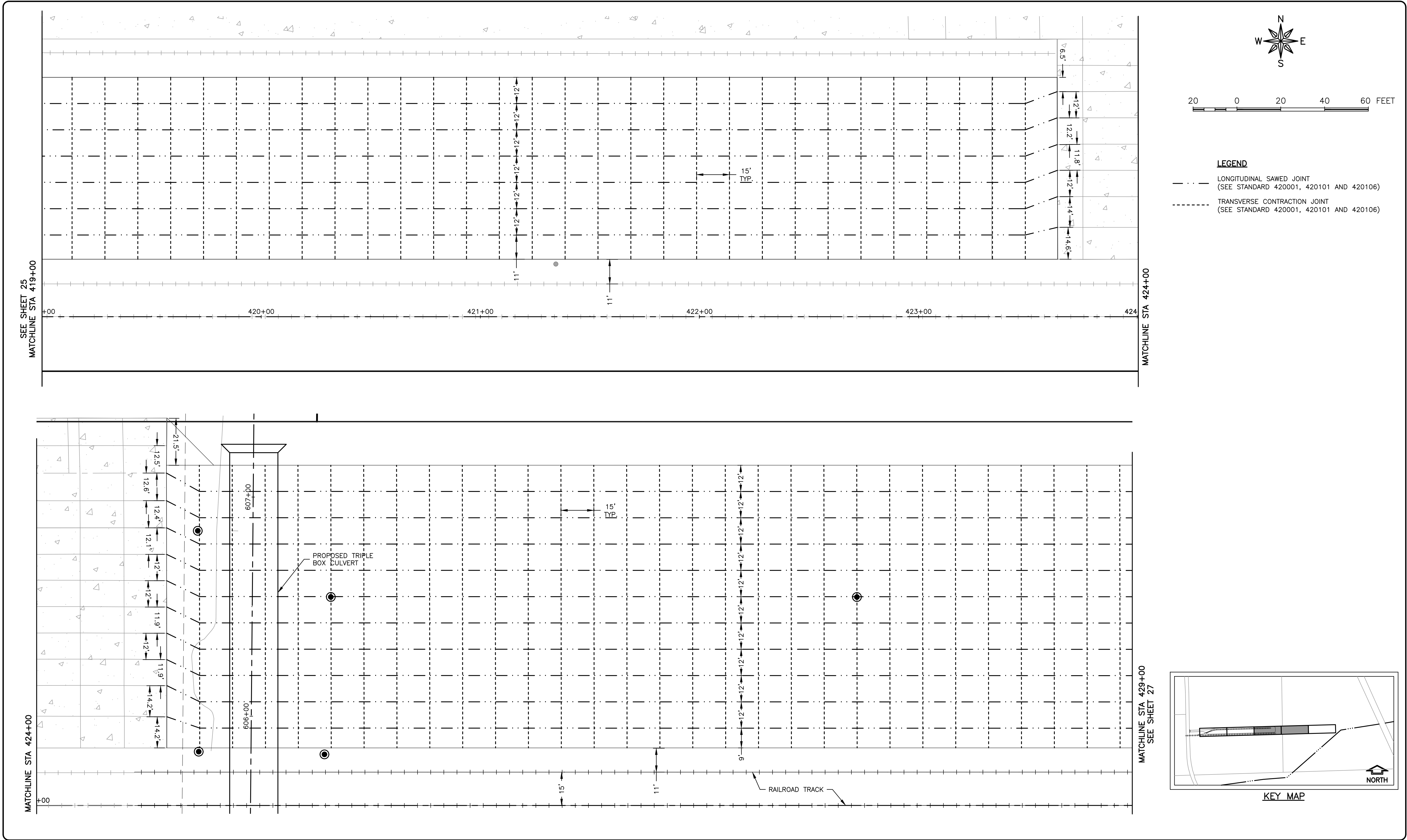
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JOB NUMBER:

22-1415

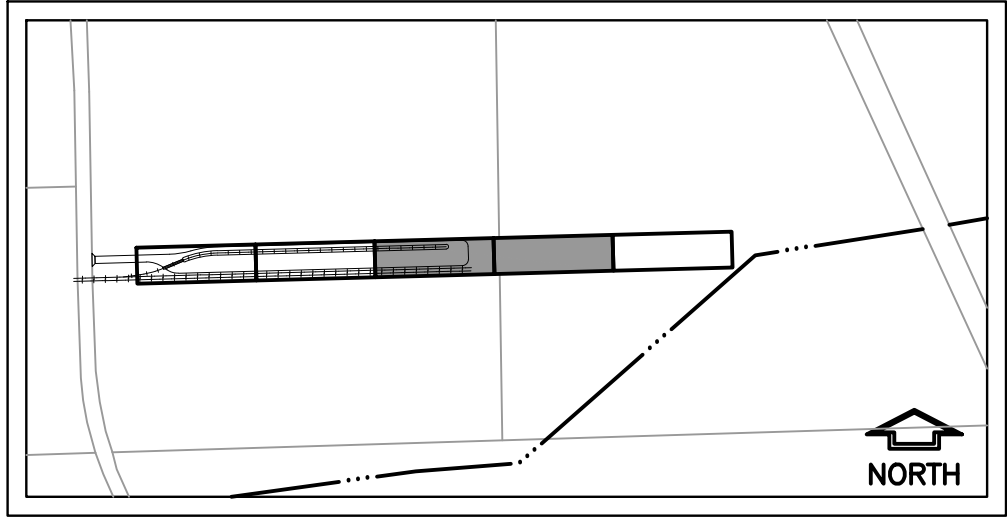
SHEET NUMBER:

25 of 50



LEGEND

- LONGITUDINAL SAWED JOINT
(SEE STANDARD 420001, 420101 AND 420106)
- TRANSVERSE CONTRACTION JOINT
(SEE STANDARD 420001, 420101 AND 420106)



KEY MAP

FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:

CITY OF ROCHELLE
420 NORTH SIXTH STREET
ROCHELLE, IL 61068

PROJECT AND LOCATION:

TRANSLOAD INTERMODAL EXPANSION
ROCHELLE, ILLINOIS
SEC 23-00118-00-RP

DRAWN BY: YJ
APPROVED BY: NJC
DATE: 02/01/25
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:

PAVEMENT JOINT PLAN

SET TYPE:

PRELIMINARY

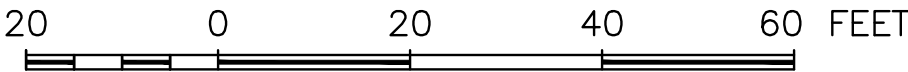
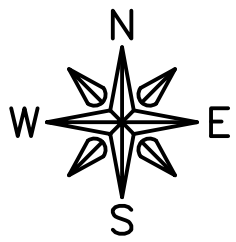
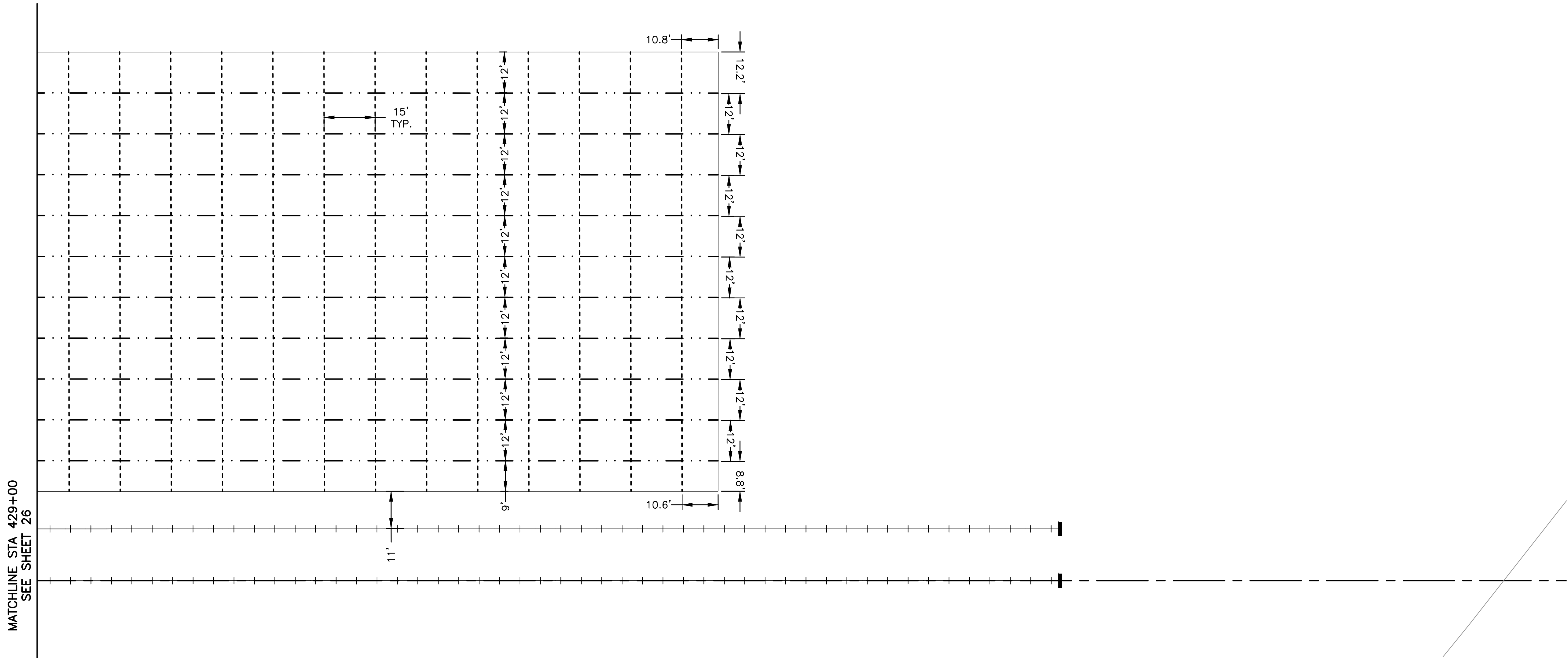
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JOB NUMBER:

22-1415

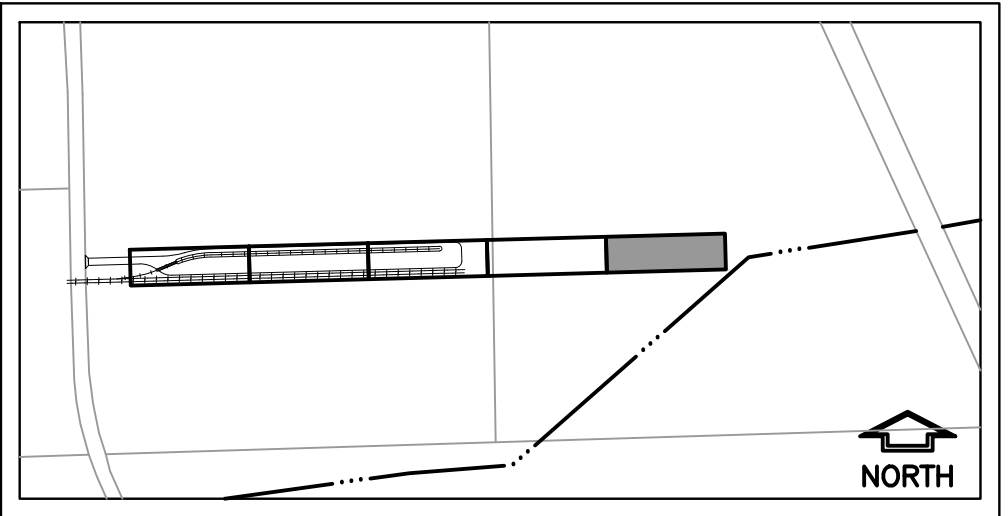
SHEET NUMBER:

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LEGEND

- LONGITUDINAL SAWED JOINT
(SEE STANDARD 420001, 420101 AND 420106)
- TRANSVERSE CONTRACTION JOINT
(SEE STANDARD 420001, 420101 AND 420106)



KEY MAP

FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS

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REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:

PAVEMENT JOINT PLAN

SET TYPE:

PRELIMINARY

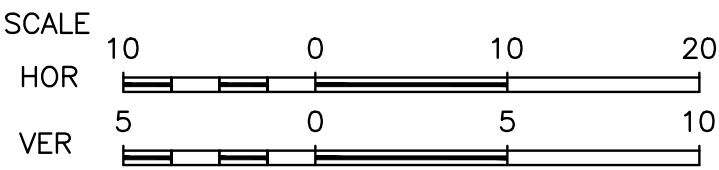
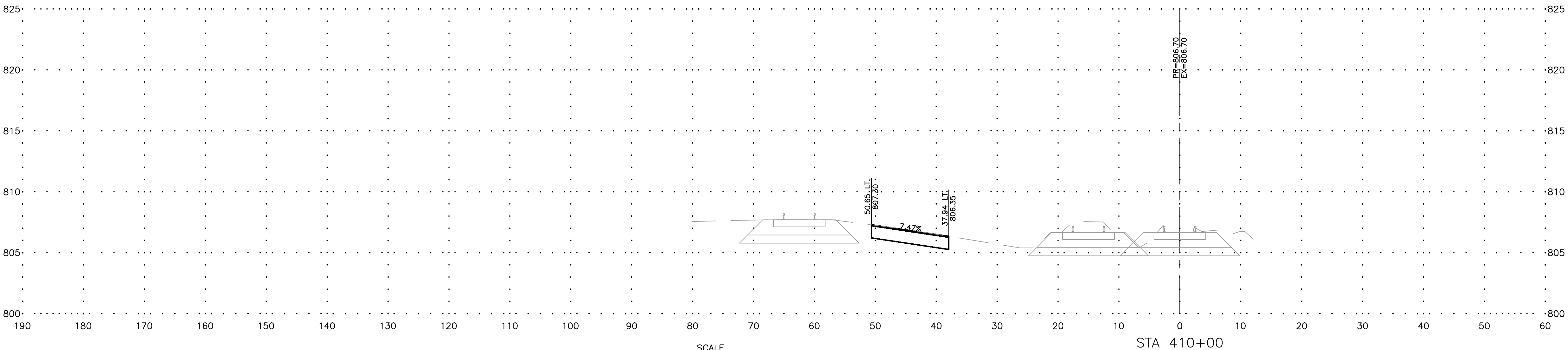
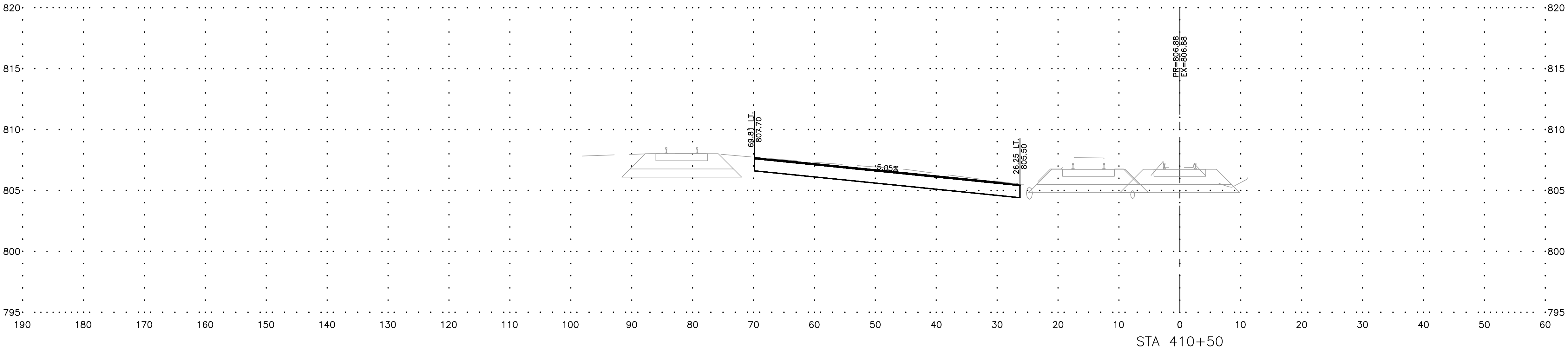
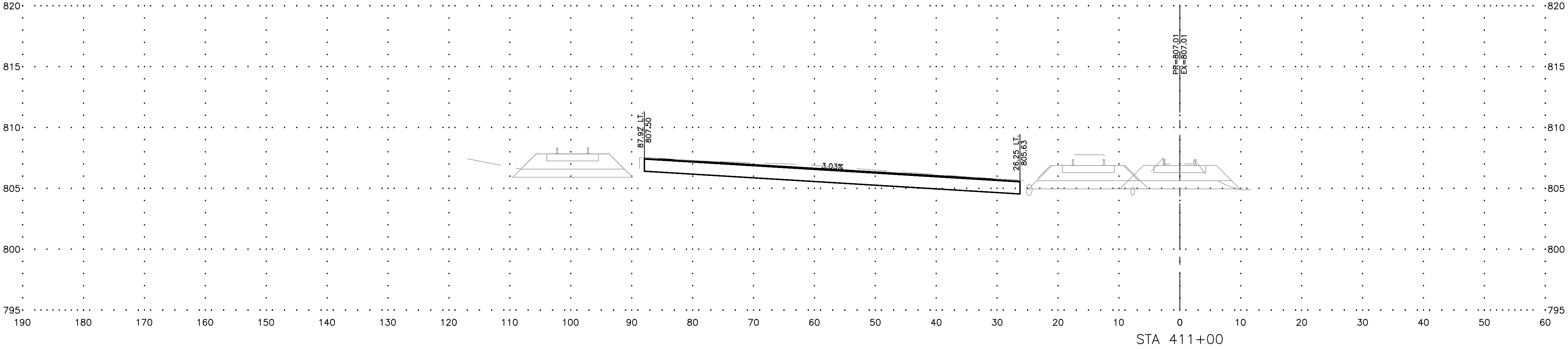
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JOB NUMBER:

22-1415

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FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

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ILLINOIS

IOWA

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SEC 23-00118-00-RP

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DATE: 02/01/25
SCALE: AS NOTED

REVISIONS

REV. NO.	DESCRIPTION	DATE

DRAWING:

CROSS SECTIONS 1

SET TYPE:

PRELIMINARY

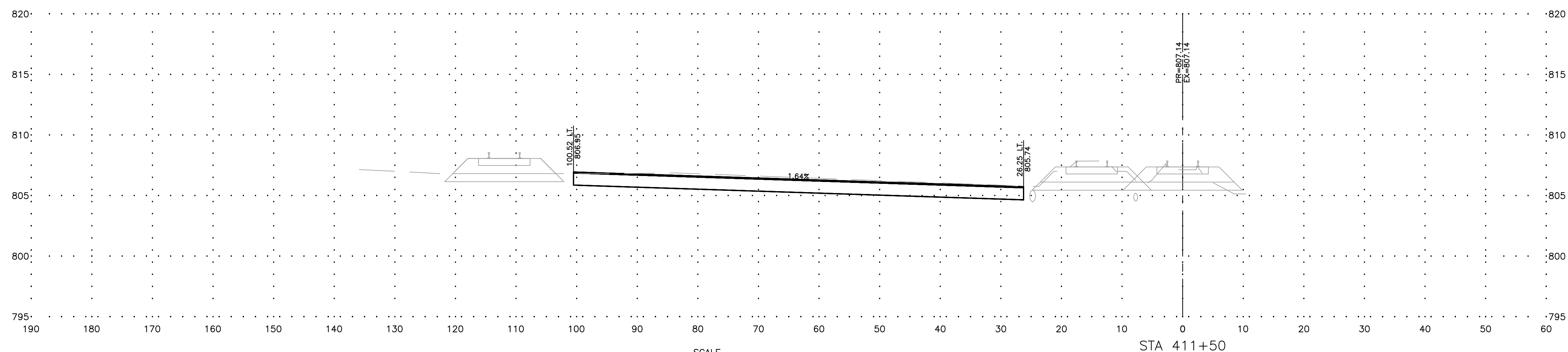
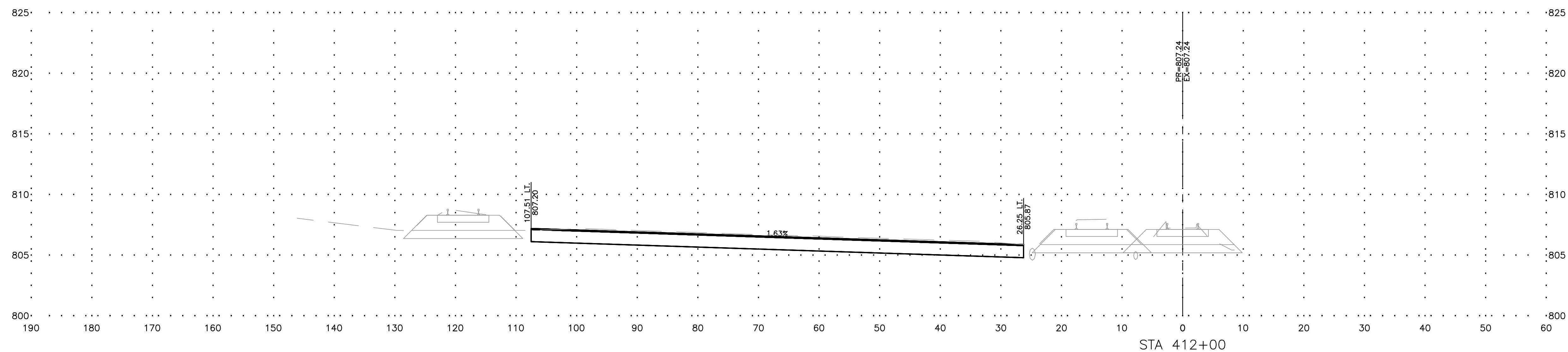
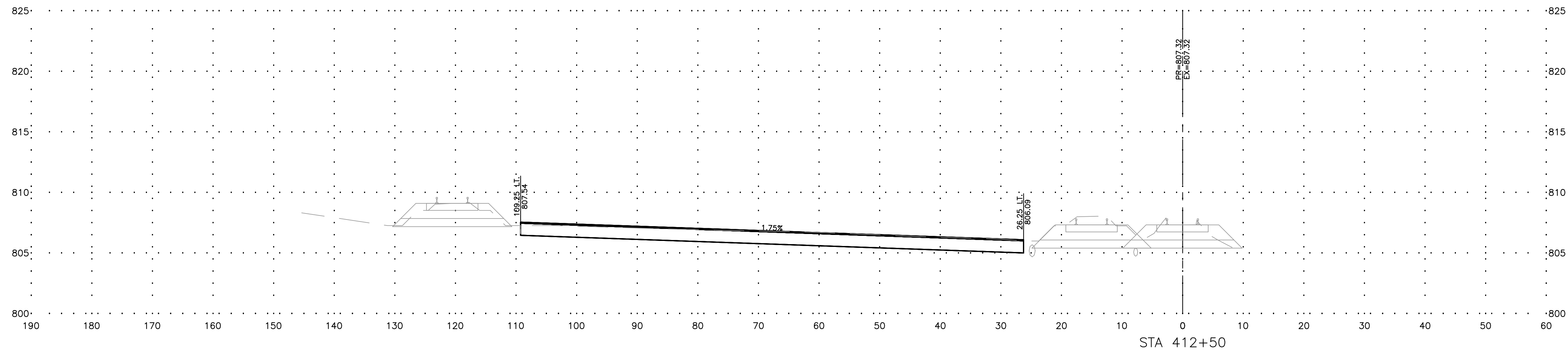
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JOB NUMBER:

22-1415

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FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

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REVISIONS

REV. NO.	DESCRIPTION	DATE

DRAWING:

CROSS SECTIONS 2

SET TYPE:

PRELIMINARY

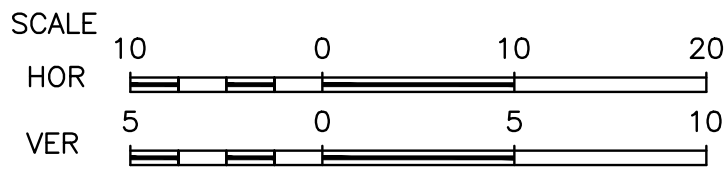
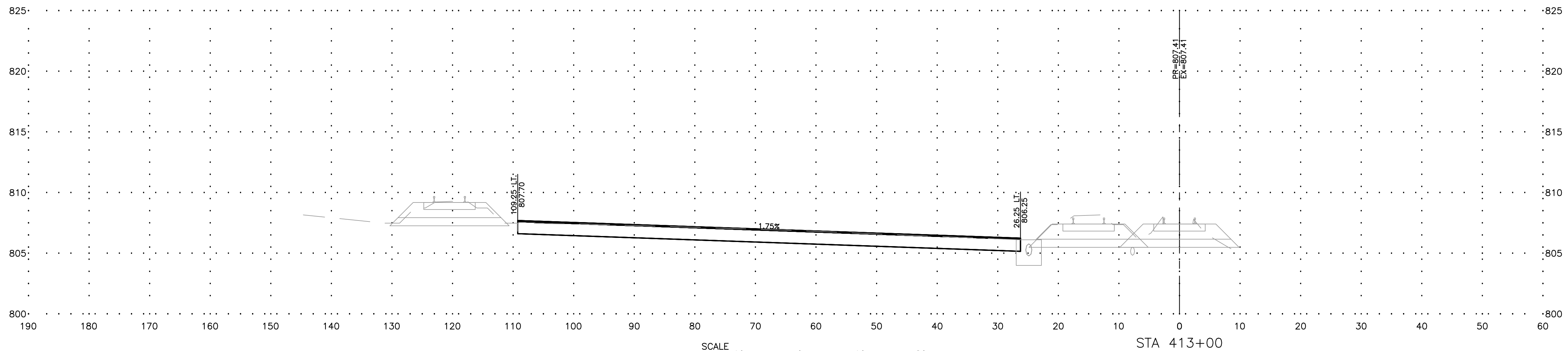
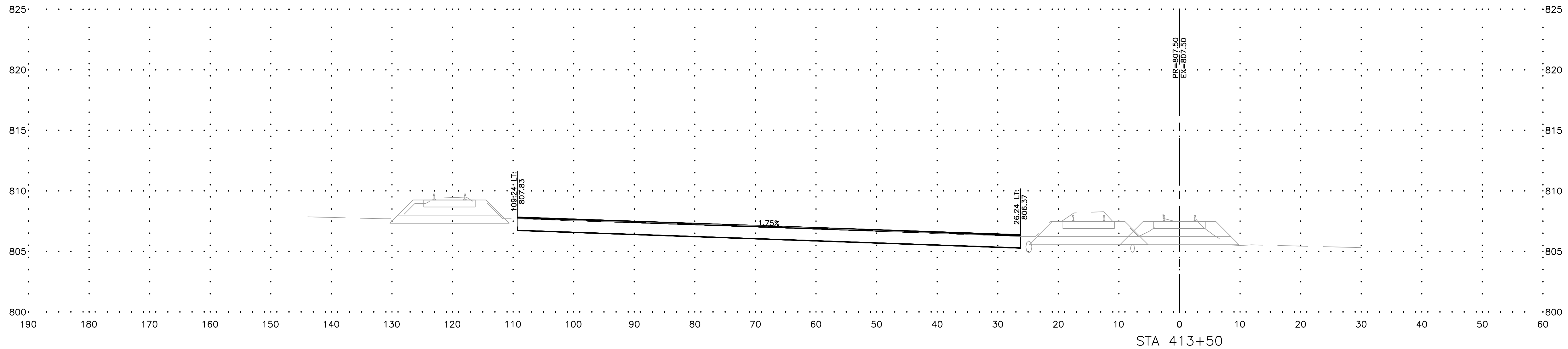
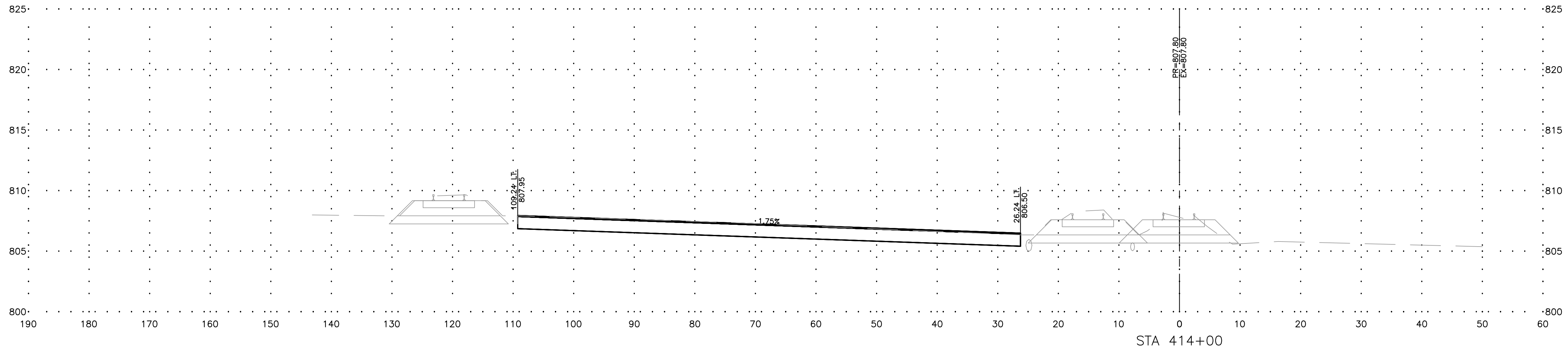
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JOB NUMBER:

22-1415

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SCALE: AS NOTED

REVISIONS

REV. NO.	DESCRIPTION	DATE

DRAWING:

CROSS SECTIONS 3

SET TYPE:

PRELIMINARY

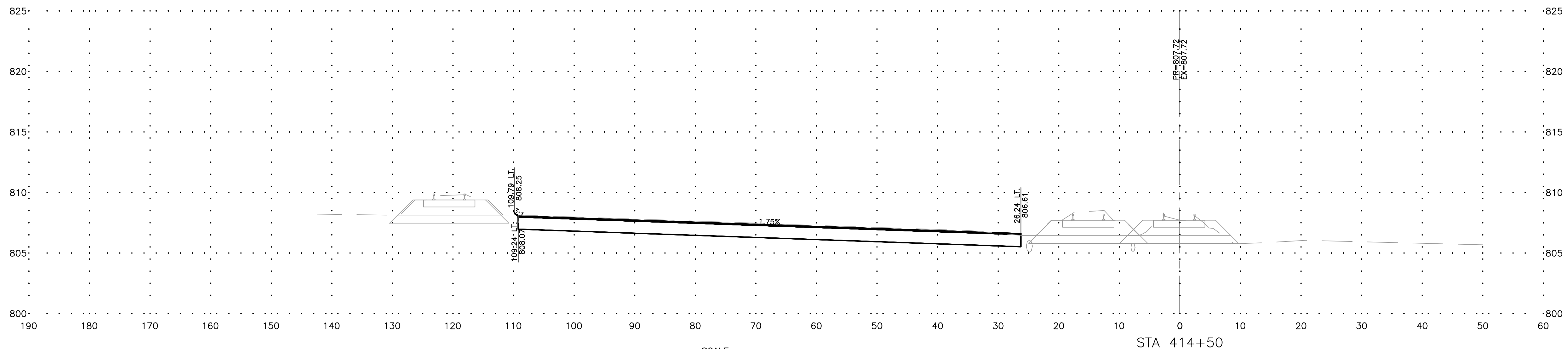
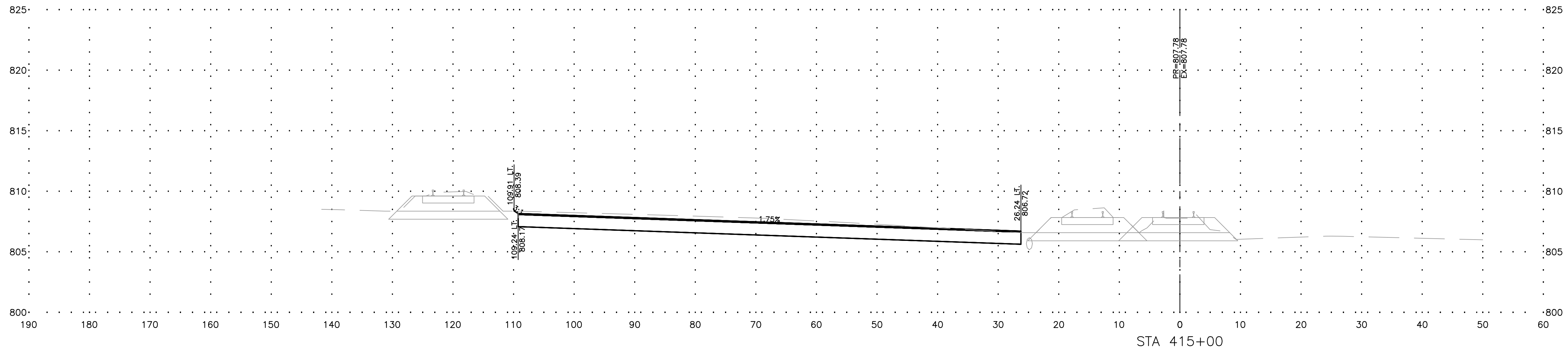
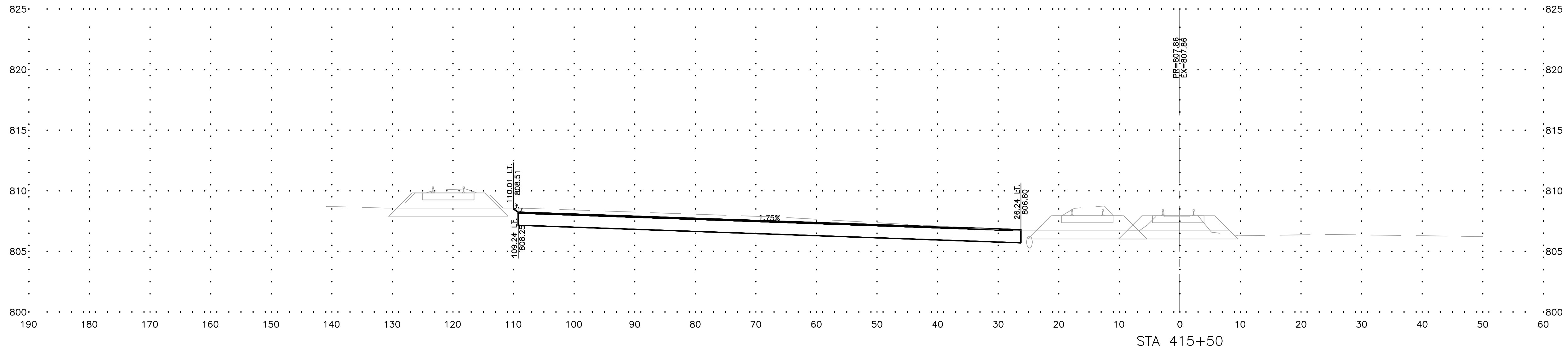
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JOB NUMBER:

22-1415

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REVISIONS

REV. NO.	DESCRIPTION	DATE

DRAWING:

CROSS SECTIONS 4

SET TYPE:

PRELIMINARY

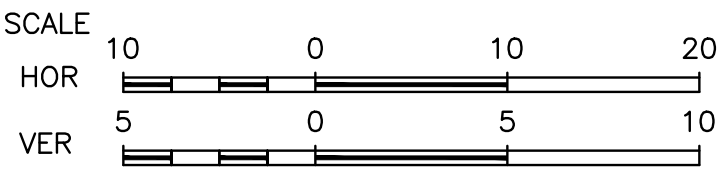
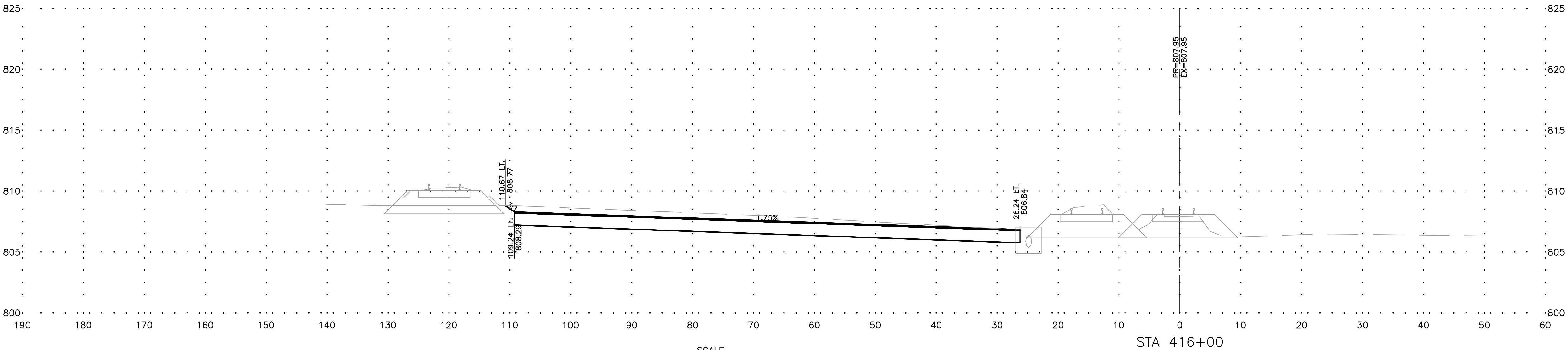
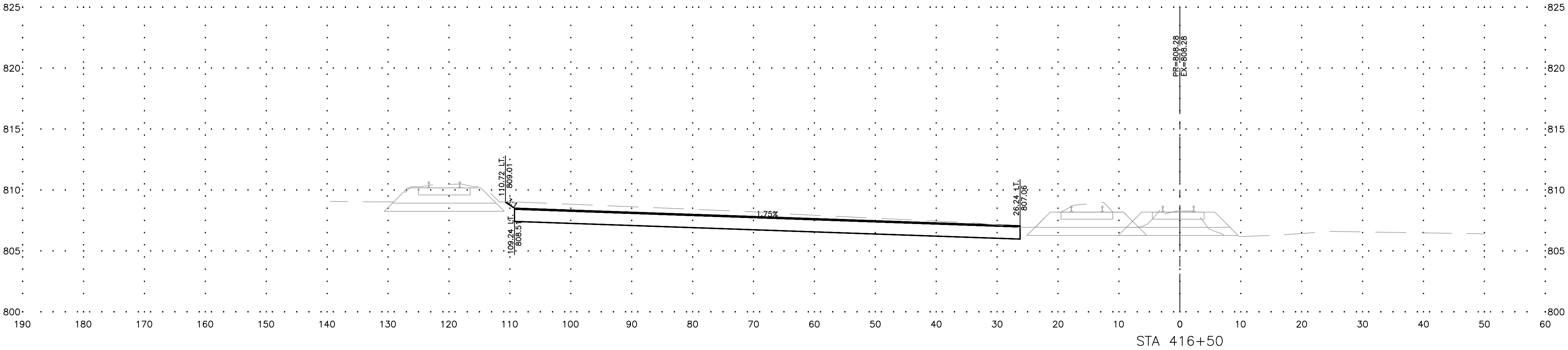
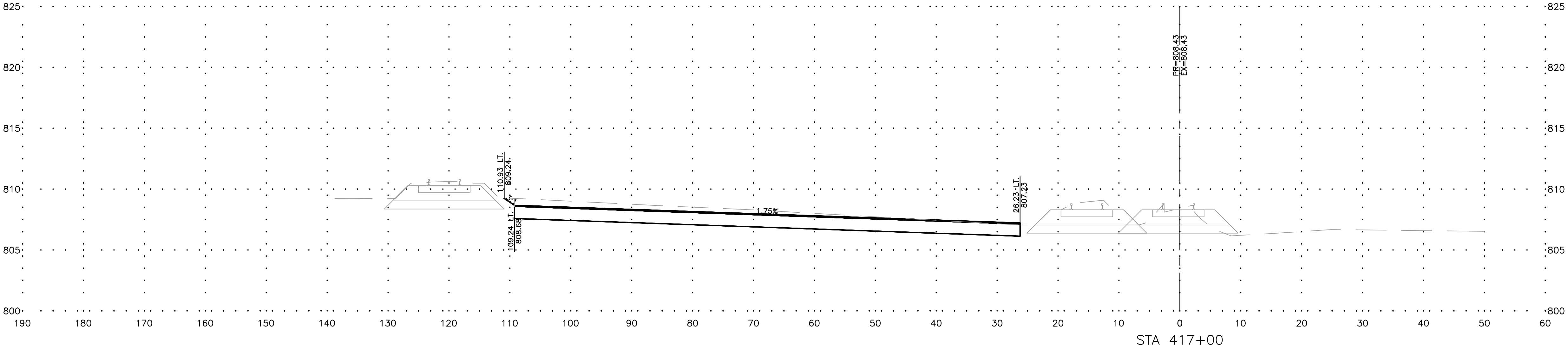
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JOB NUMBER:

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FEHR GRAHAM

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REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:

CROSS SECTIONS 5

SET TYPE:

PRELIMINARY

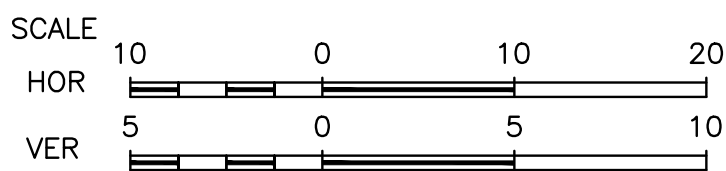
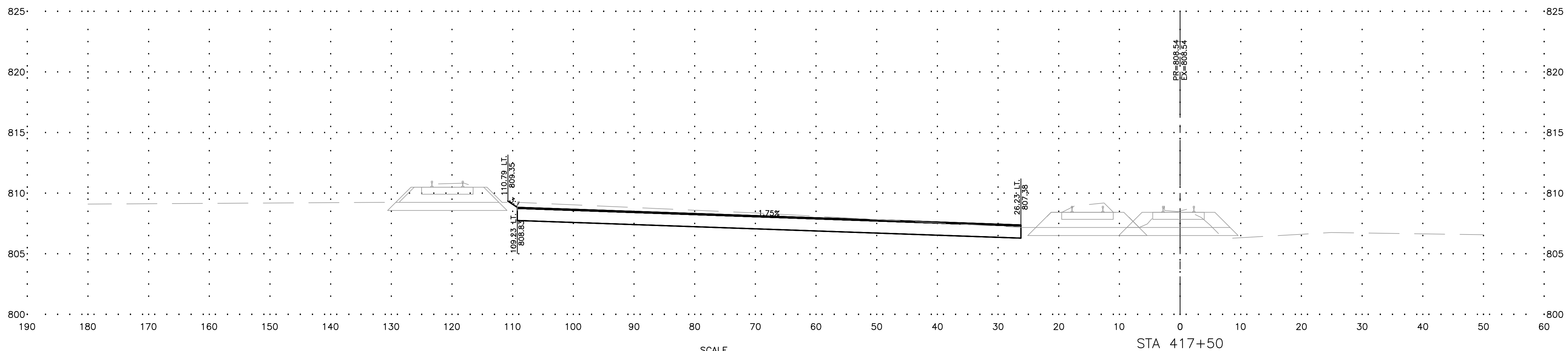
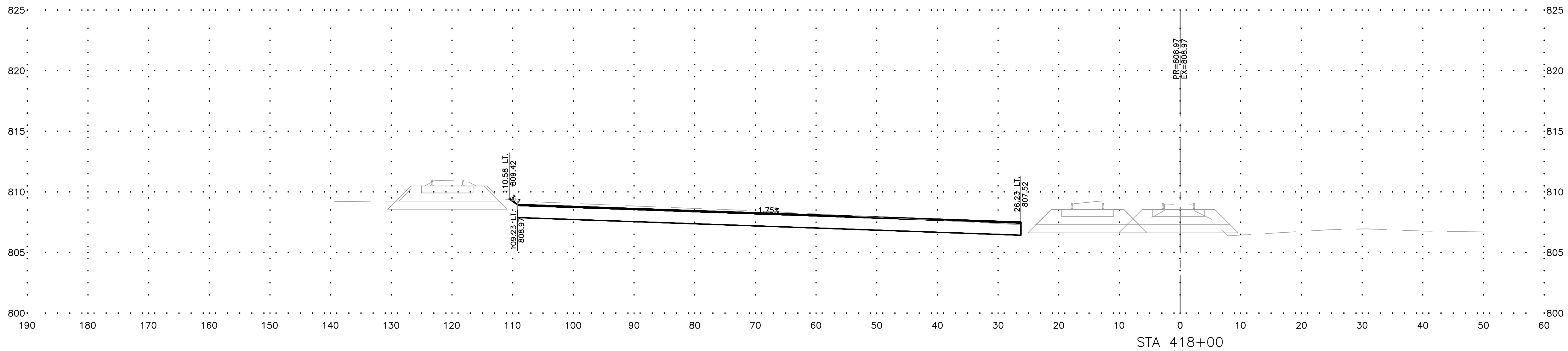
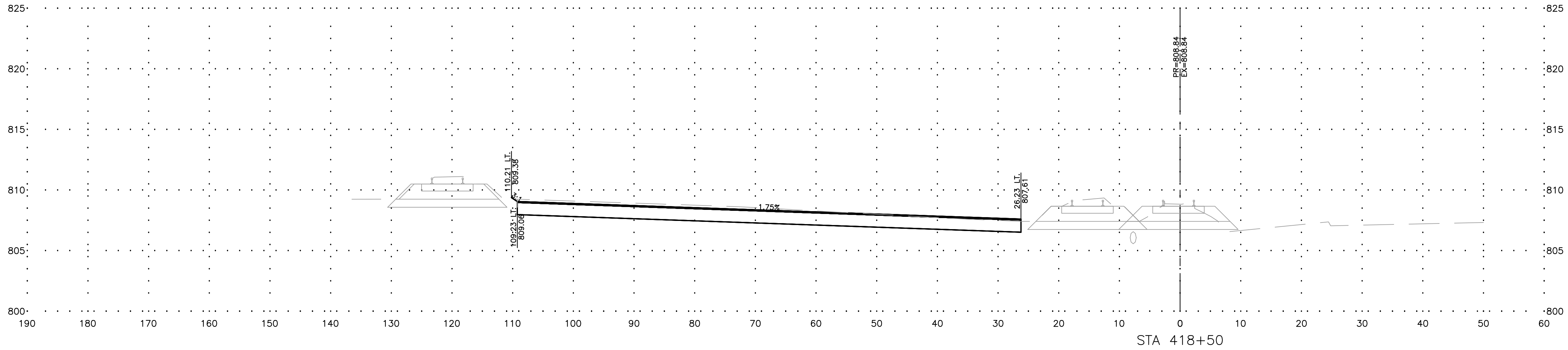
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JOB NUMBER:

22-1415

SHEET NUMBER:

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FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
IOWA
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420 NORTH SIXTH STREET
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TRANSLOAD INTERMODAL EXPANSION
ROCHELLE, ILLINOIS
SEC 23-00118-00-RP

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SCALE: AS NOTED

REVISIONS

REV. NO.	DESCRIPTION	DATE

DRAWING:

CROSS SECTIONS 6

SET TYPE:

PRELIMINARY

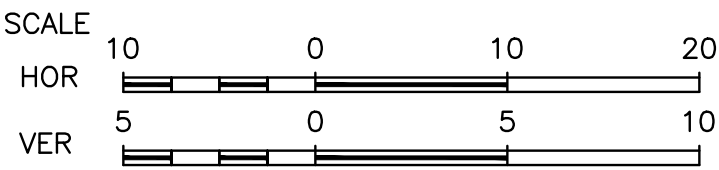
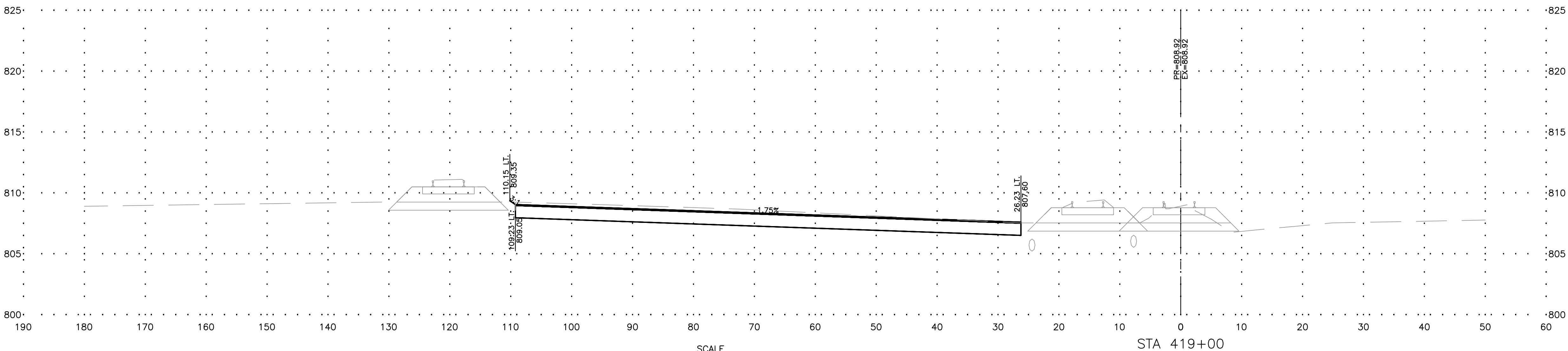
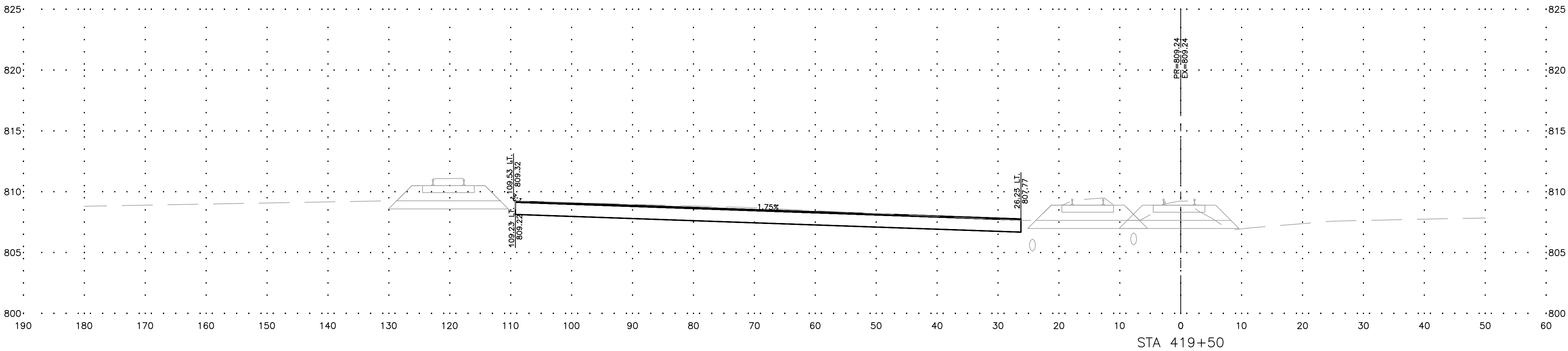
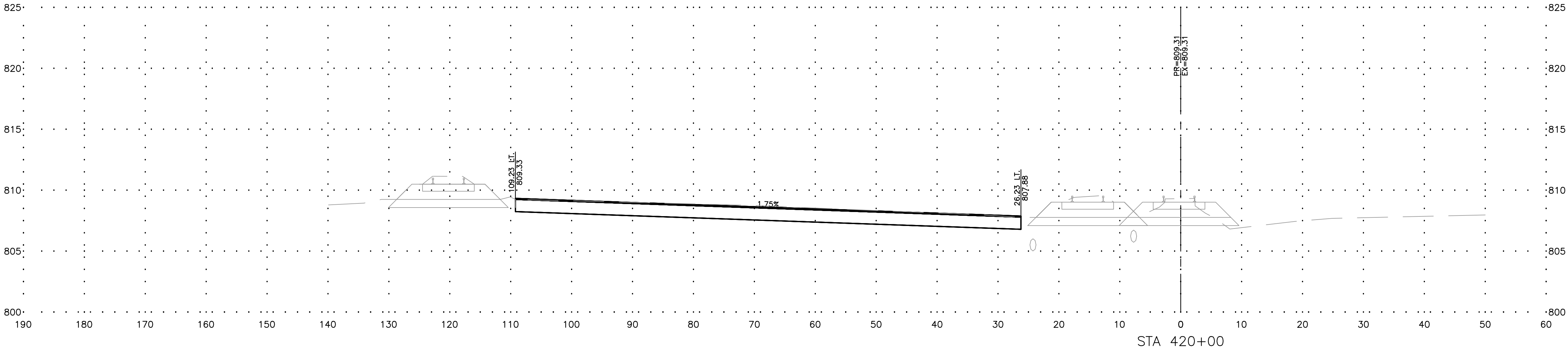
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JOB NUMBER:

22-1415

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FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS

IOWA

WISCONSIN

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420 NORTH SIXTH STREET
ROCHELLE, IL 61068

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TRANSLOAD INTERMODAL EXPANSION
ROCHELLE, ILLINOIS
SEC 23-00118-00-RP

DRAWN BY: YJ
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DATE: 02/01/25
SCALE: AS NOTED

REVISIONS

REV. NO.	DESCRIPTION	DATE

DRAWING:

CROSS SECTIONS 7

SET TYPE:

PRELIMINARY

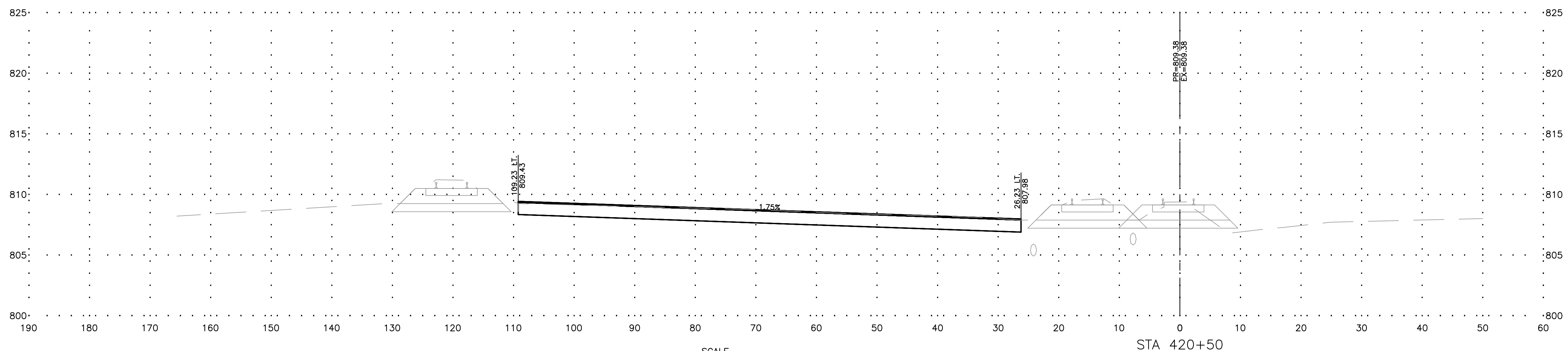
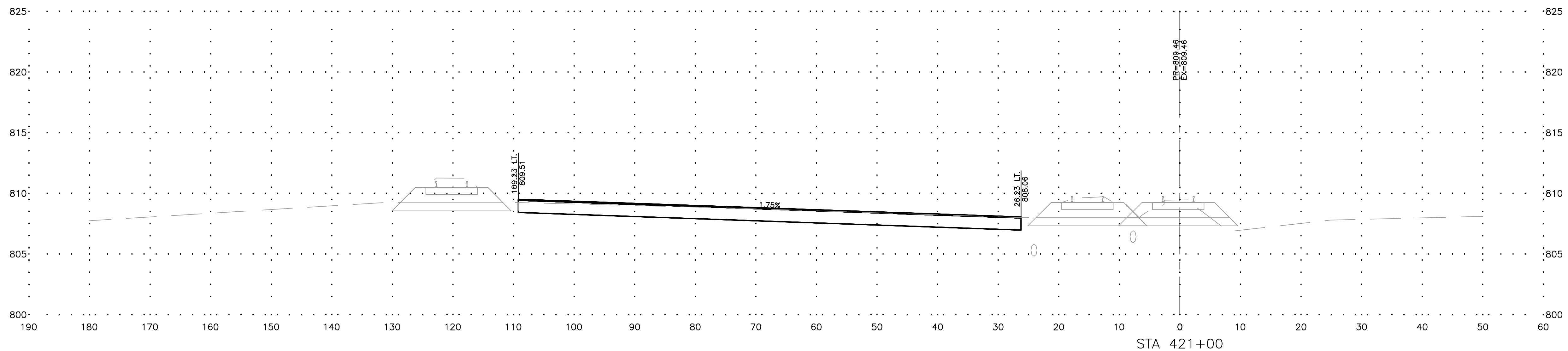
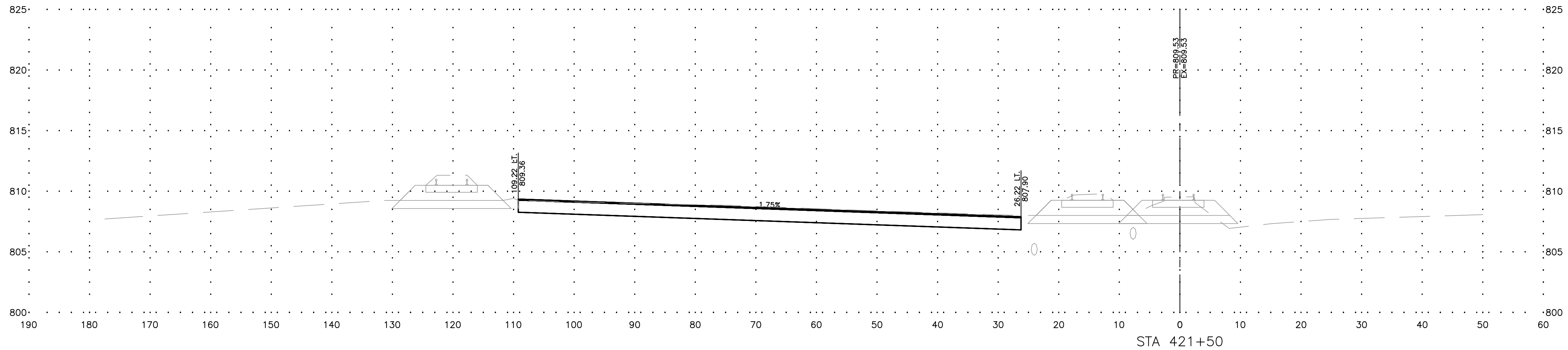
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JOB NUMBER:

22-1415

SHEET NUMBER:

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FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

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ILLINOIS
IOWA
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SEC 23-00118-00-RP

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DATE: 02/01/25
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:

CROSS SECTIONS 8

SET TYPE:

PRELIMINARY

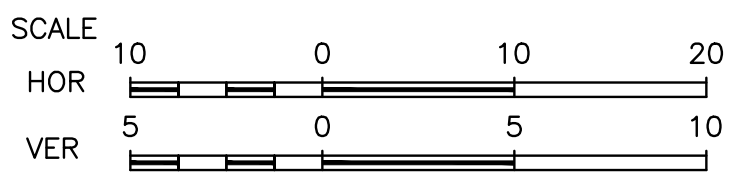
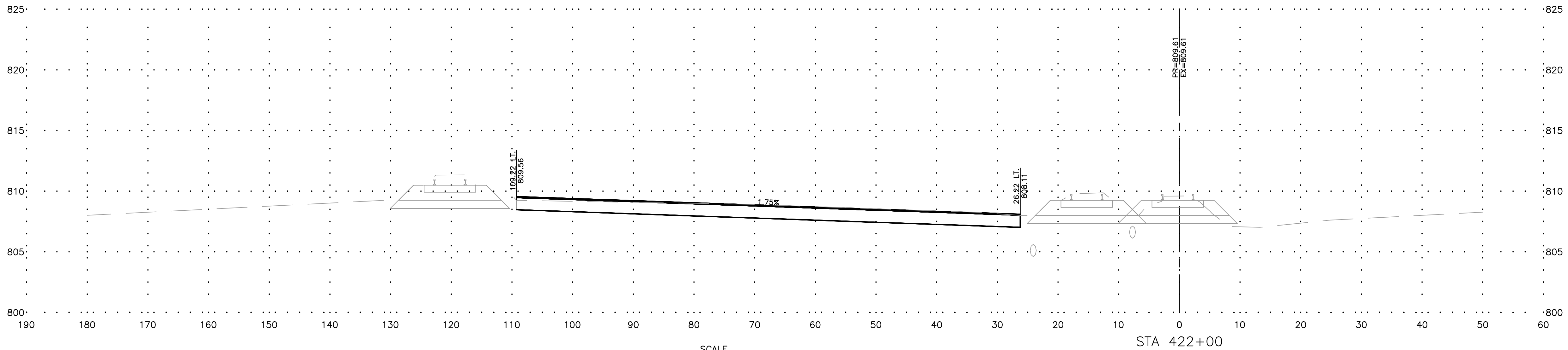
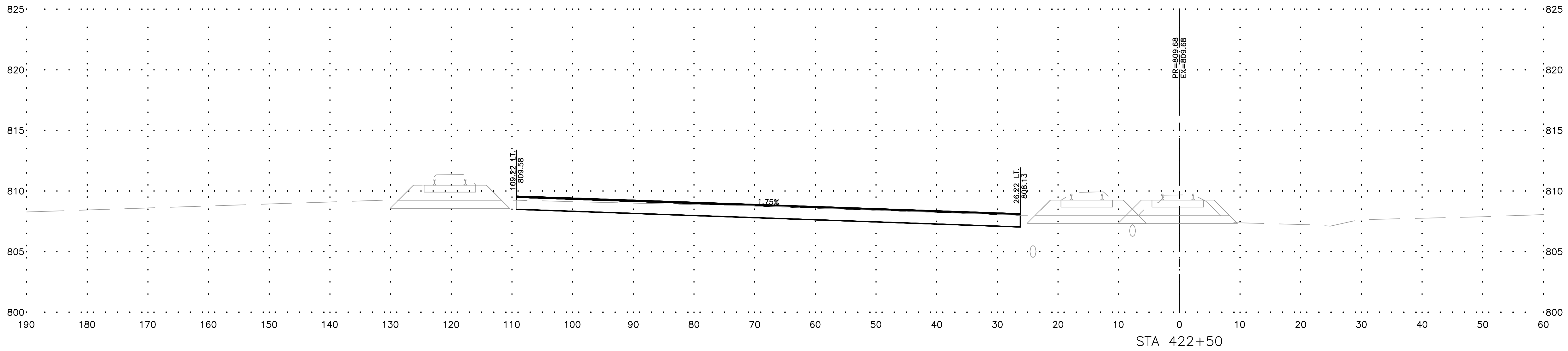
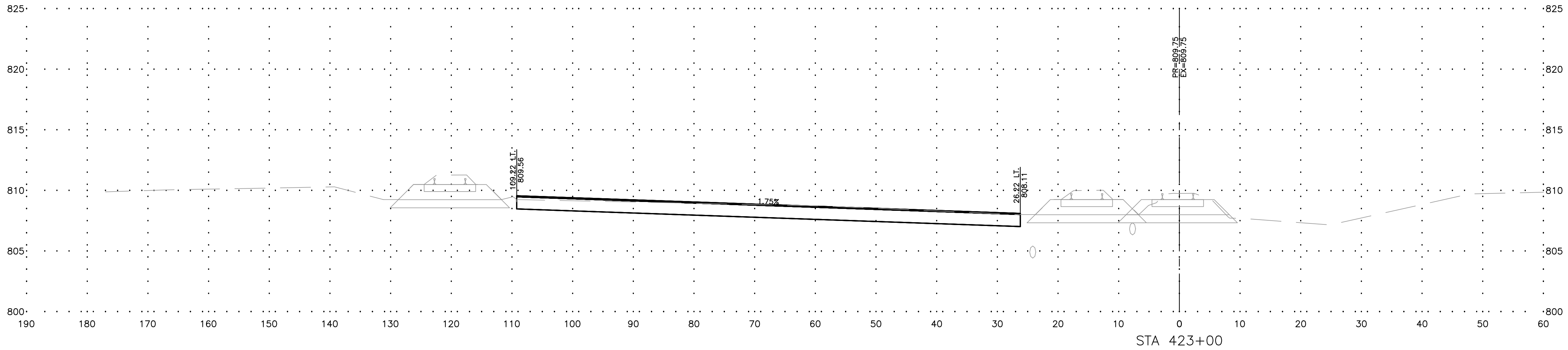
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JOB NUMBER:

22-1415

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FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

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ILLINOIS

IOWA

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ROCHELLE, ILLINOIS
SEC 23-00118-00-RP

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SCALE: AS NOTED

REVISIONS

REV. NO.	DESCRIPTION	DATE

DRAWING:

CROSS SECTIONS 9

SET TYPE:

PRELIMINARY

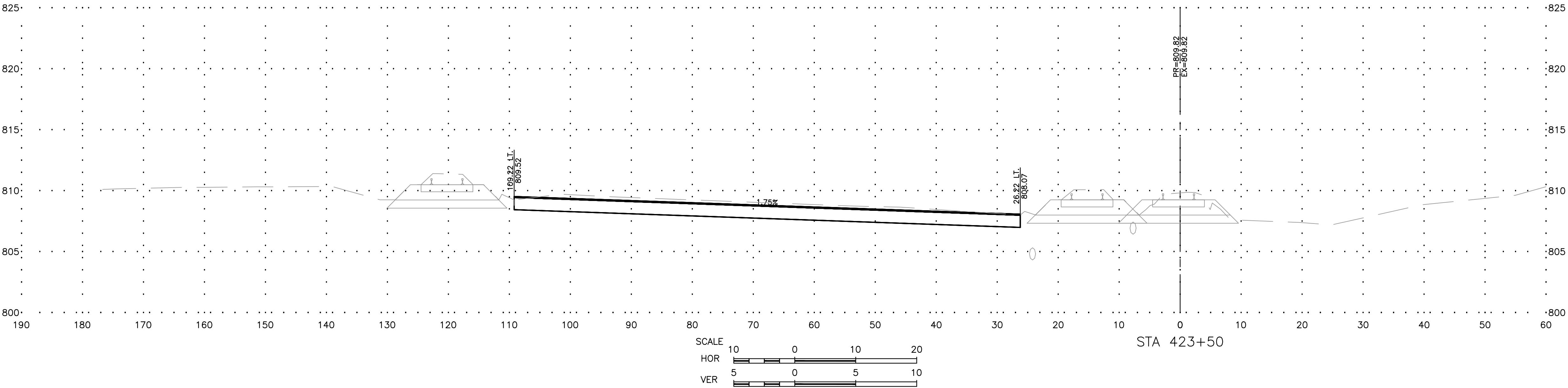
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JOB NUMBER:

22-1415

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FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

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ILLINOIS
IOWA
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SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:

CROSS SECTIONS 10

SET TYPE:

PRELIMINARY

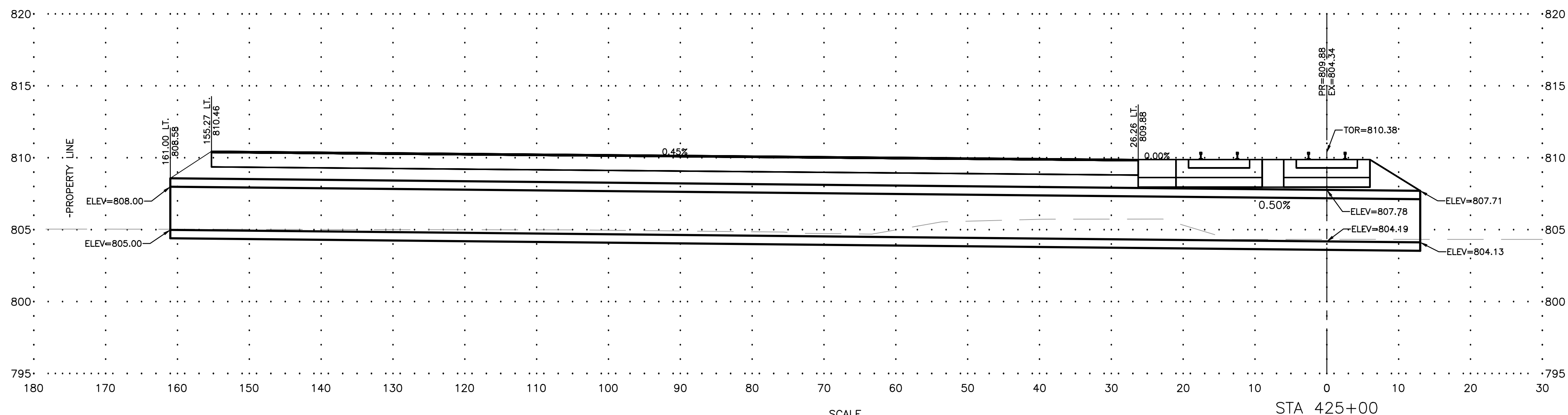
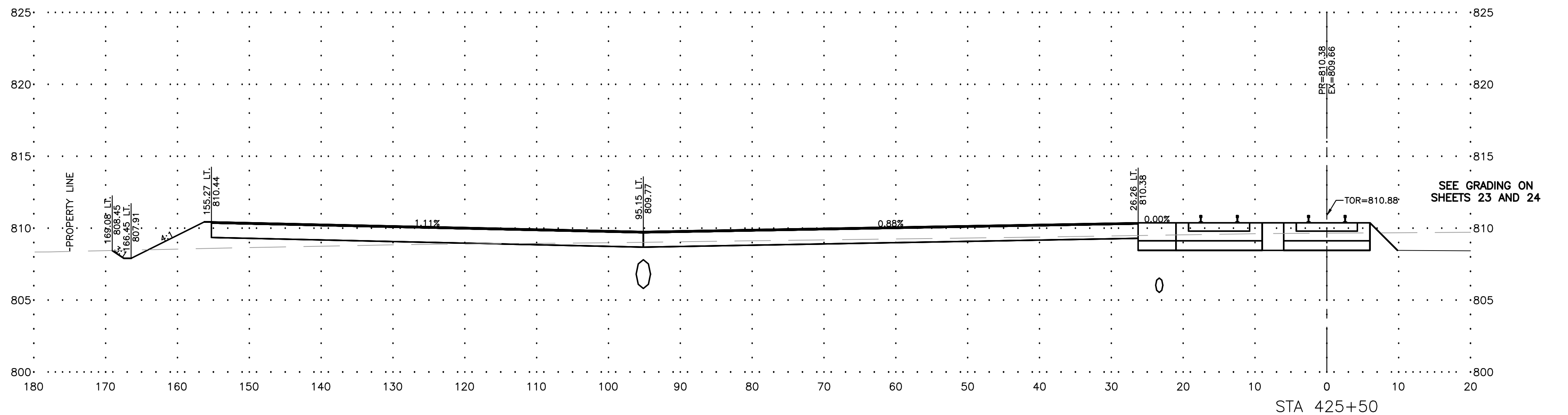
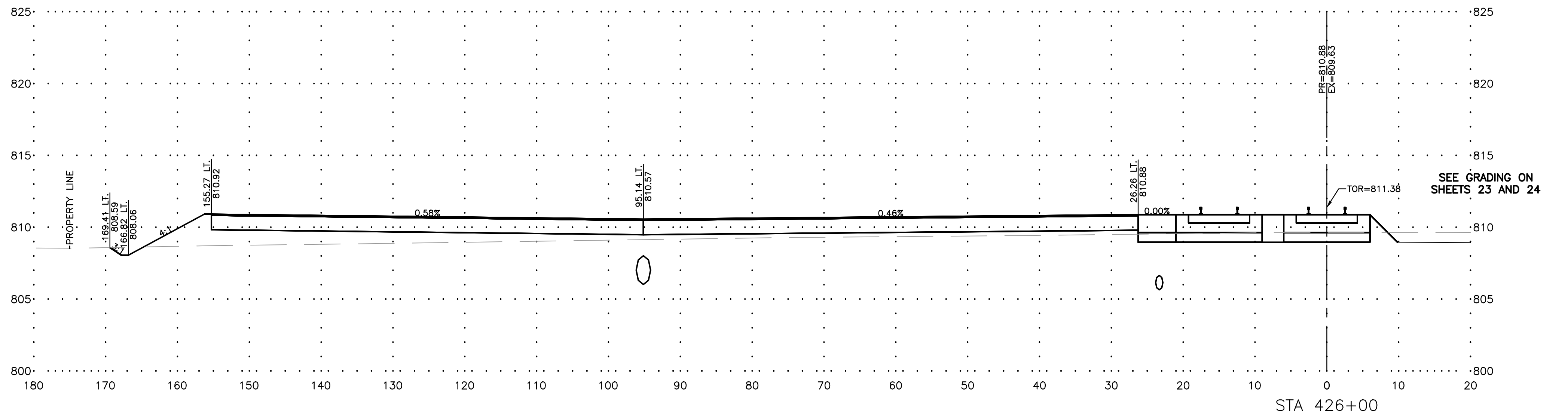
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JOB NUMBER:

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FEHR GRAHAM

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REV. NO.	DESCRIPTION	DATE

DRAWING:

CROSS SECTIONS 11

SET TYPE:

PRELIMINARY

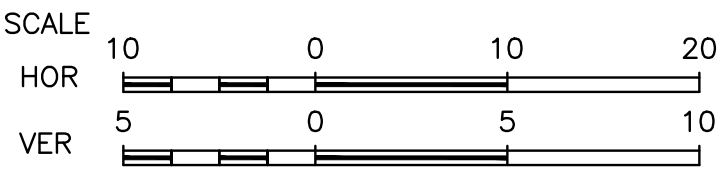
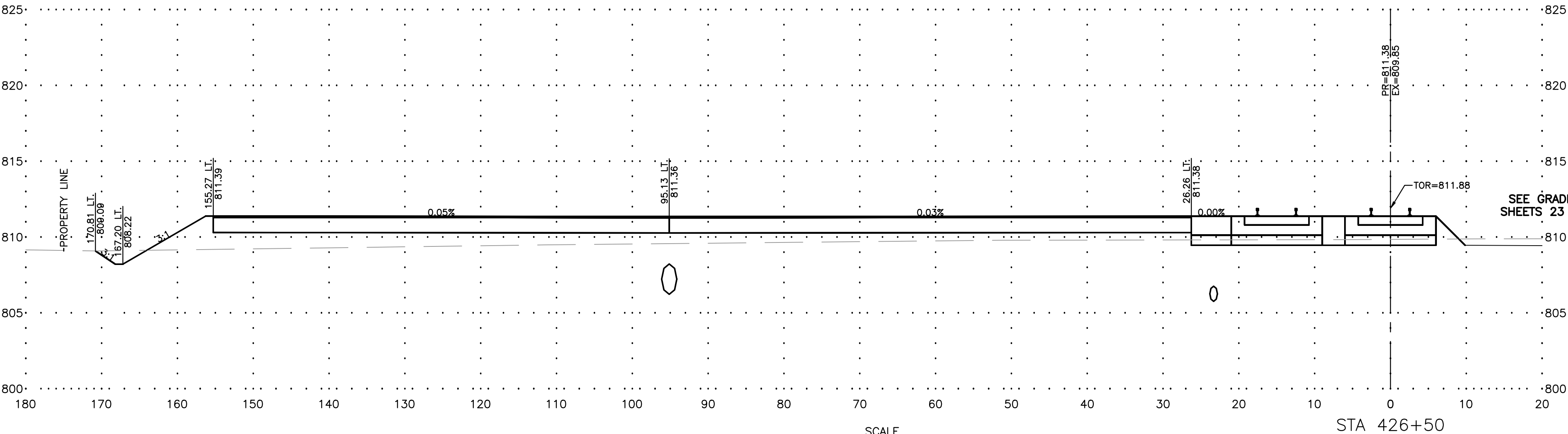
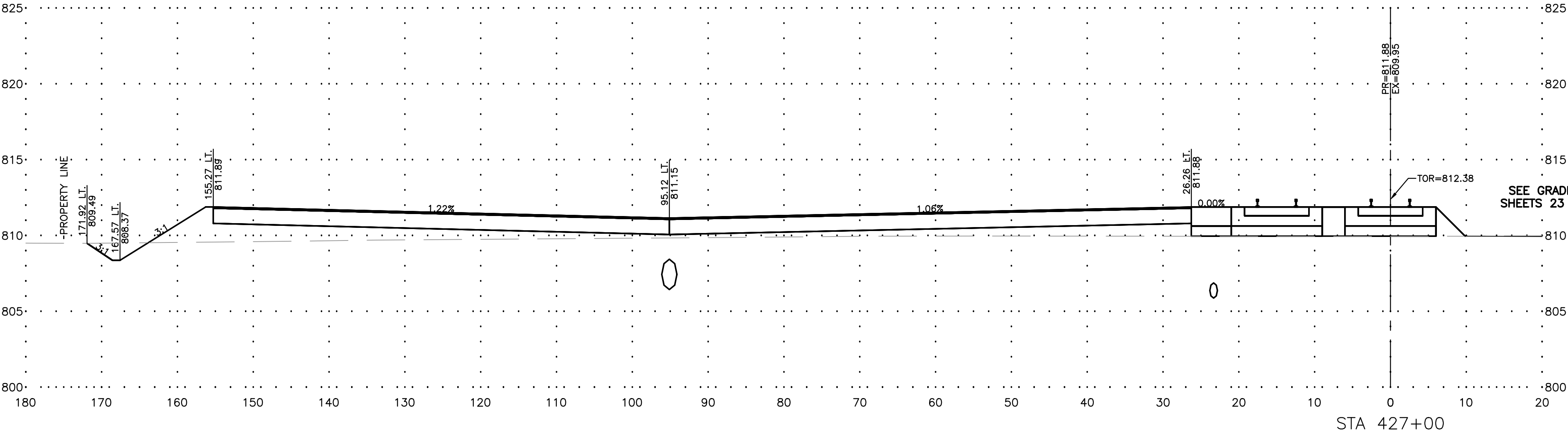
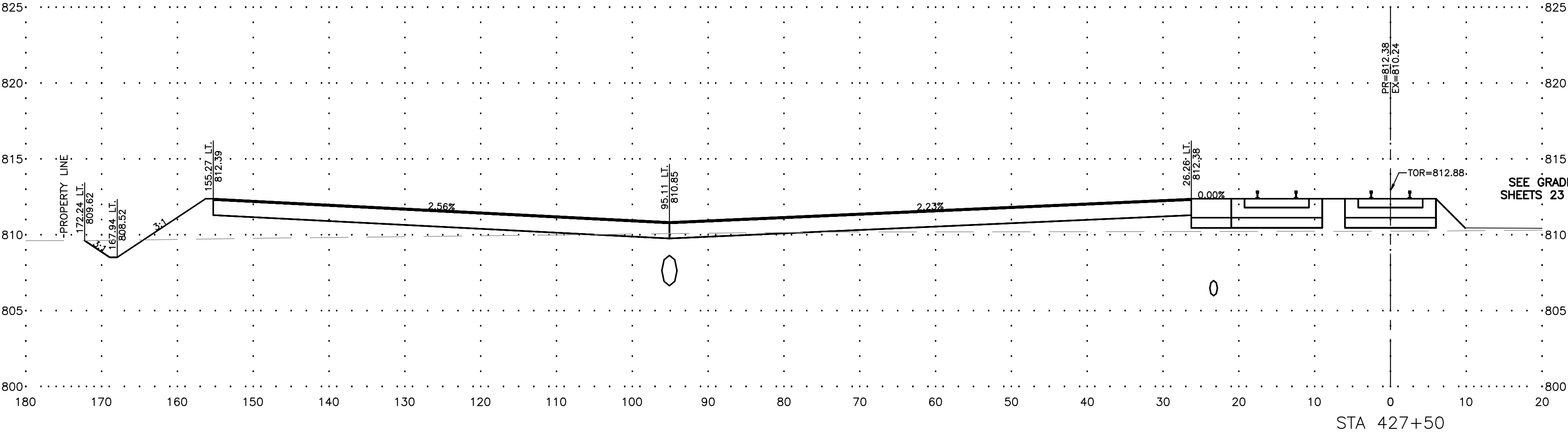
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JOB NUMBER:

22-1415

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FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

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ILLINOIS
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REVISIONS

REV. NO.	DESCRIPTION	DATE

DRAWING:

CROSS SECTIONS 12

SET TYPE:

PRELIMINARY

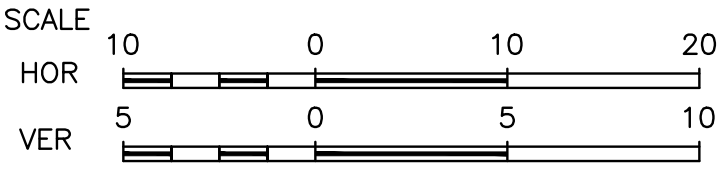
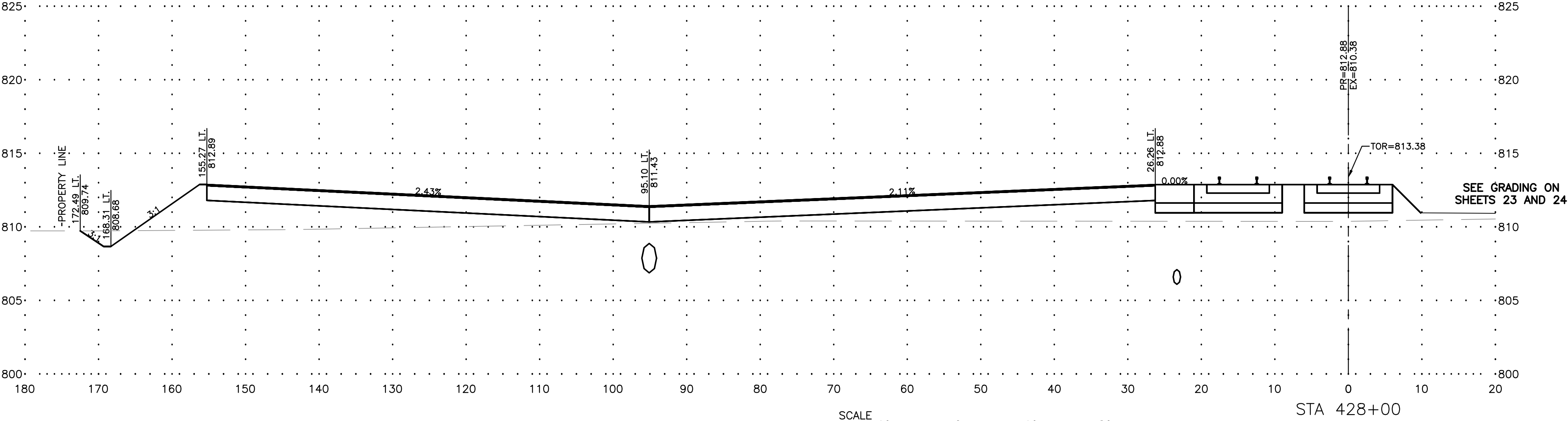
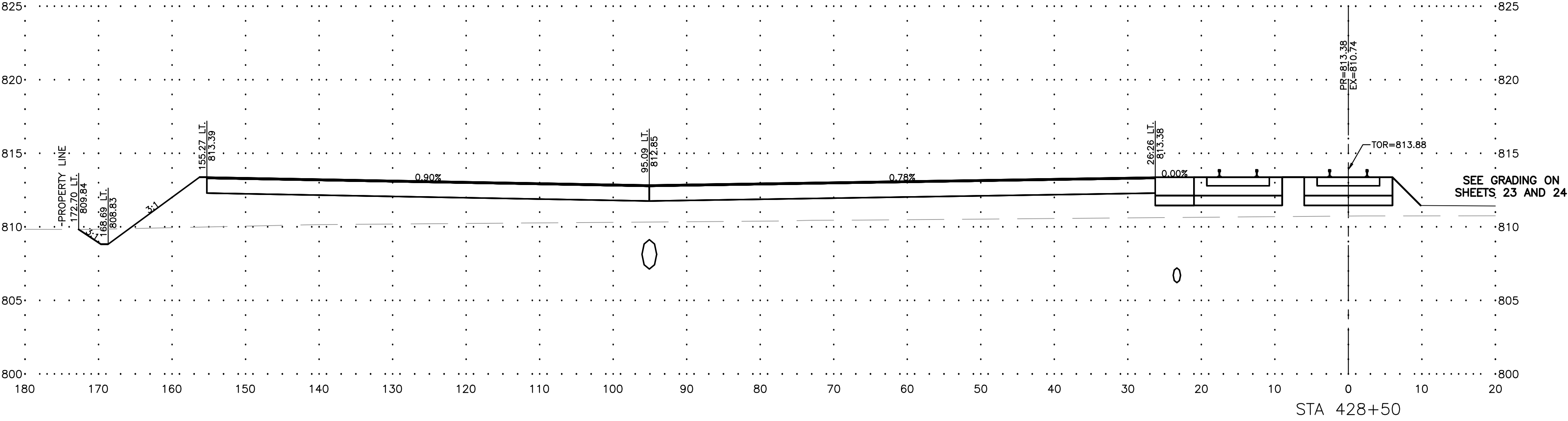
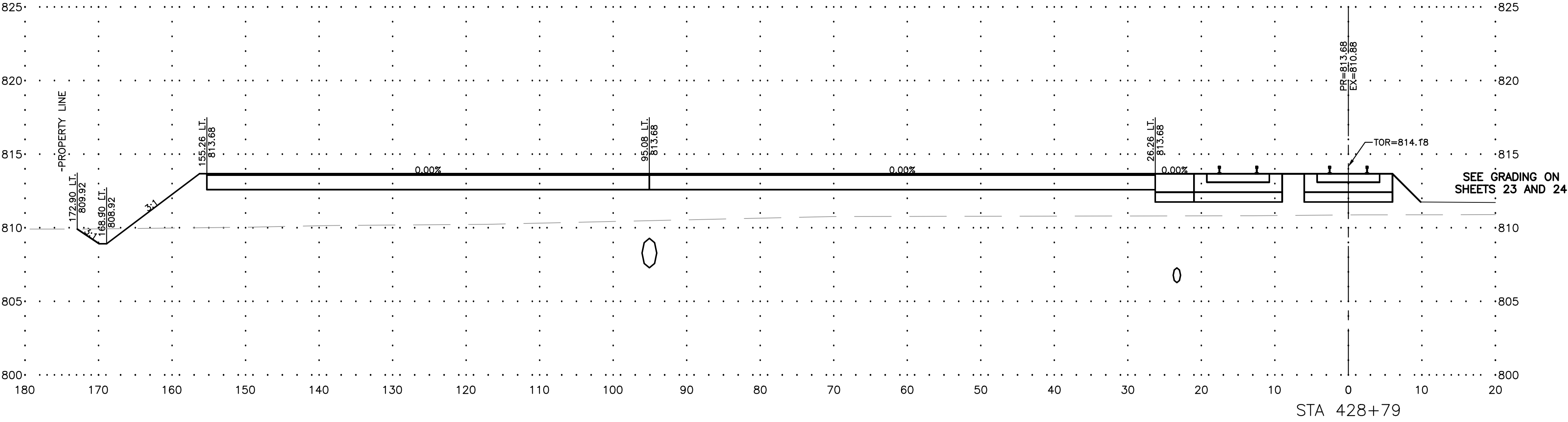
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JOB NUMBER:

22-1415

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FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

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REVISIONS

REV. NO.	DESCRIPTION	DATE

DRAWING:

CROSS SECTIONS 13

SET TYPE:

PRELIMINARY

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JOB NUMBER:

22-1415

SHEET NUMBER:

40 of 50

OWNER/DEVELOPER:
CITY OF ROCHELLE
420 NORTH SIXTH STREET
ROCHELLE, IL 61068

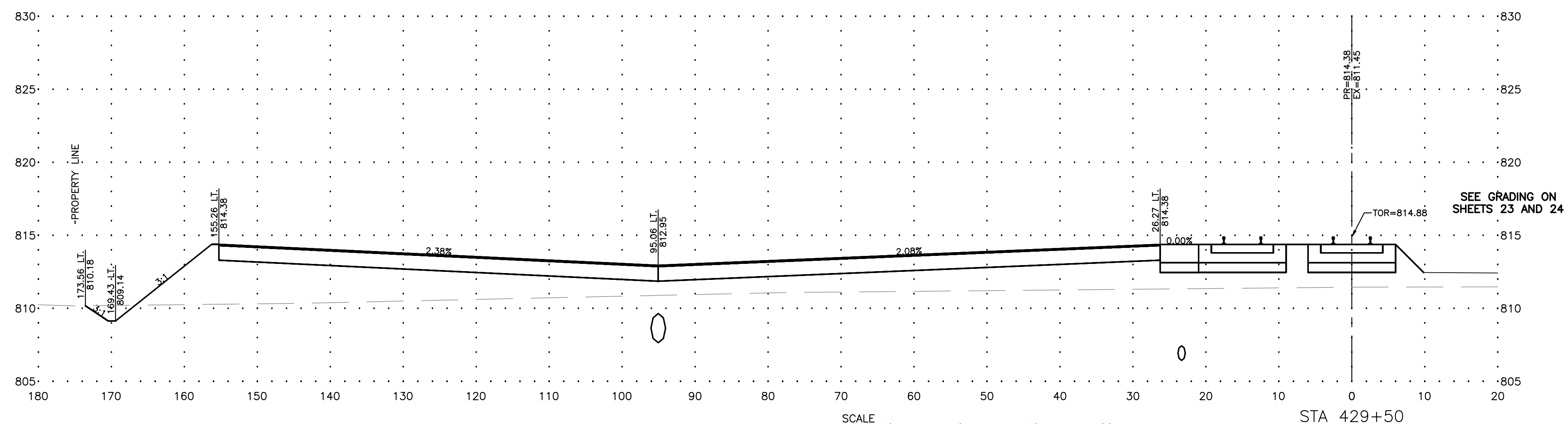
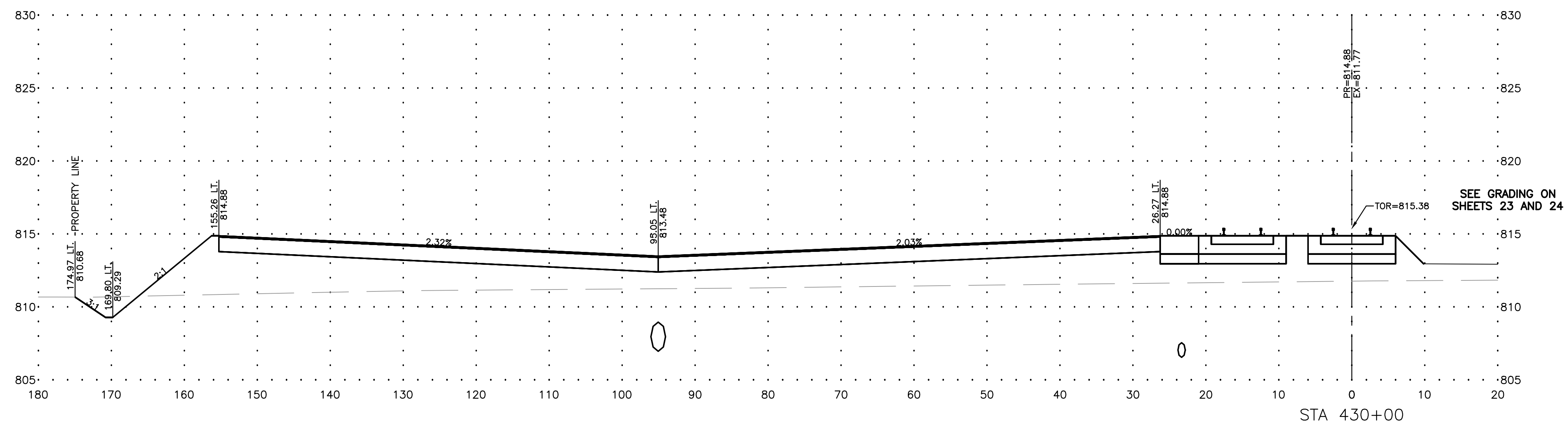
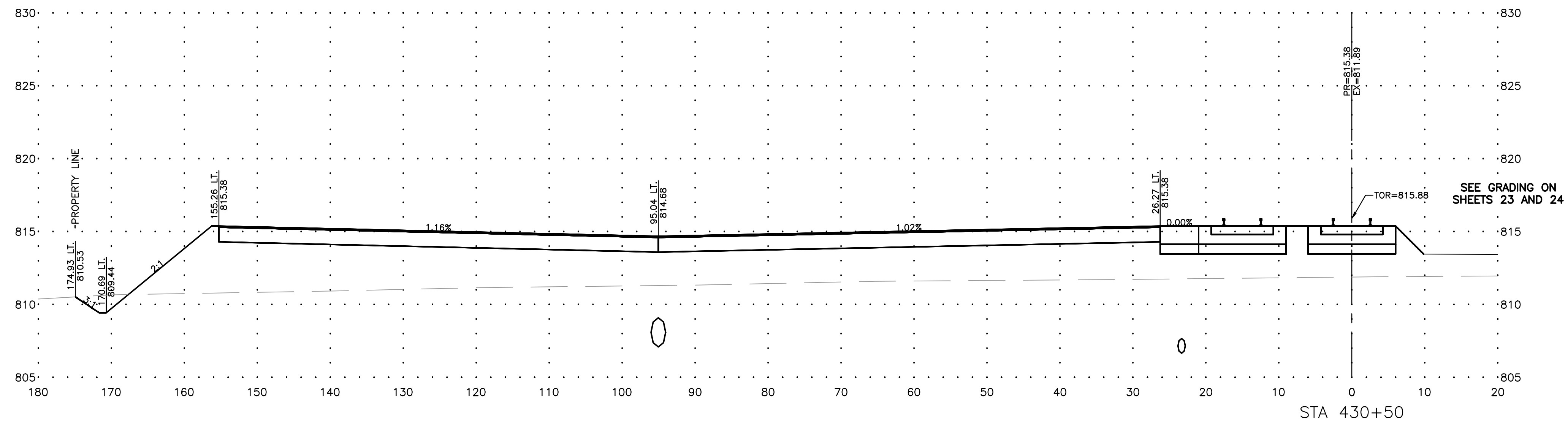
PROJECT AND LOCATION:
TRANSLOAD INTERMODAL EXPANSION
ROCHELLE, ILLINOIS
SEC 23-00118-00-RP

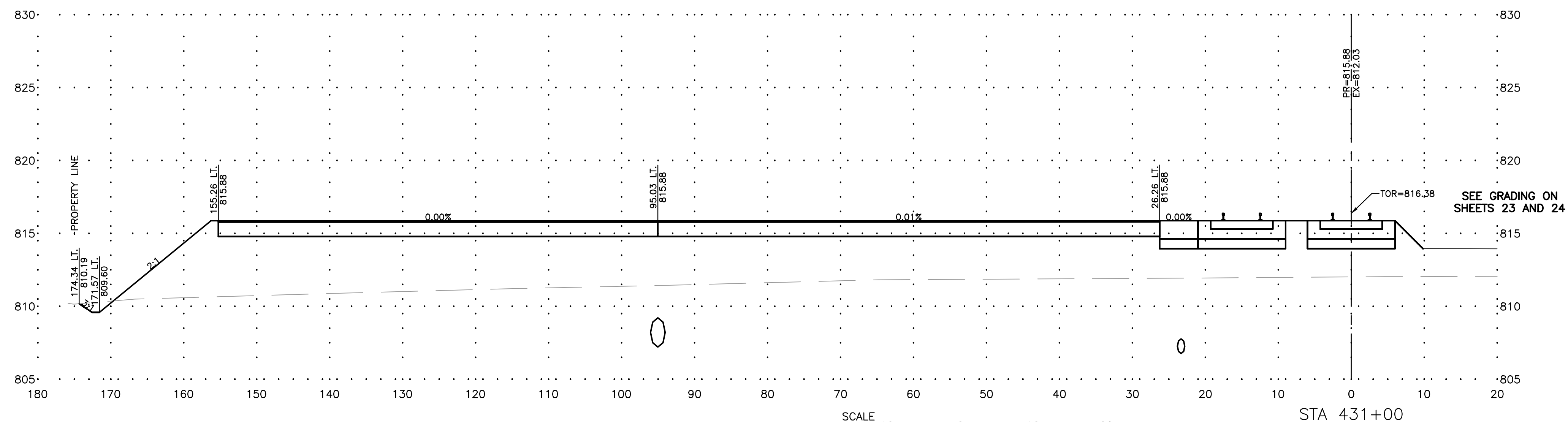
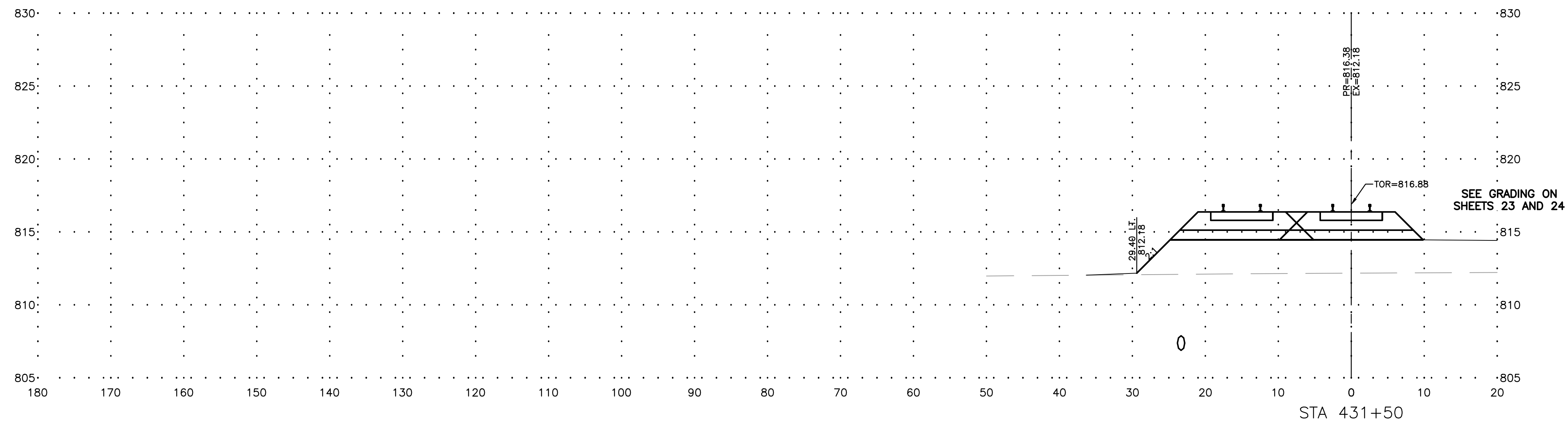
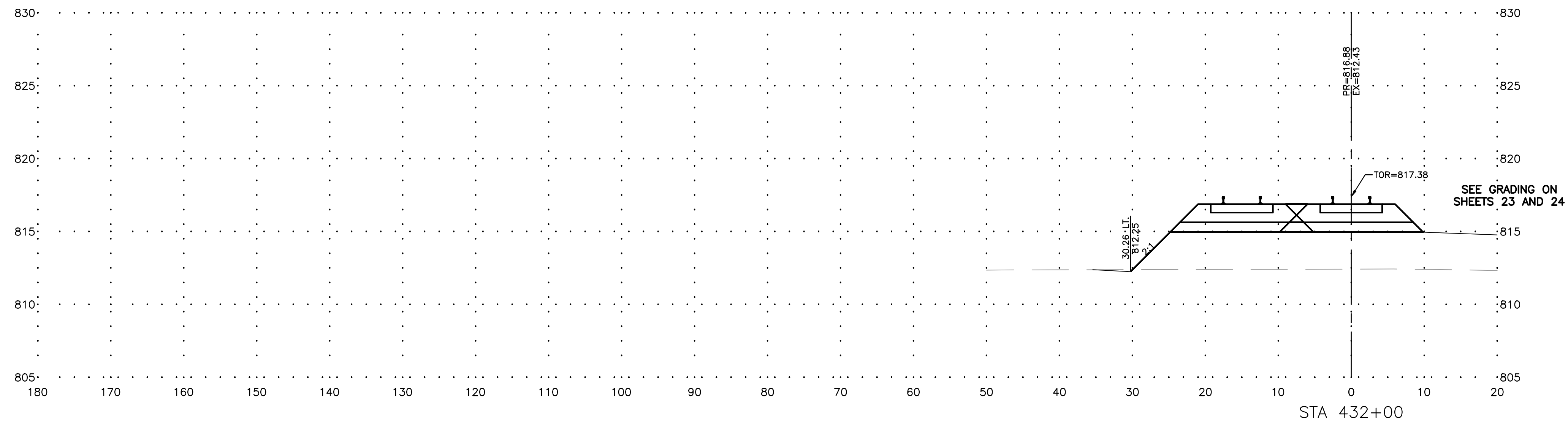
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APPROVED BY: NJC
DATE: 02/01/25
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

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SHEET NUMBER:
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FEHR GRAHAM

ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
IOWA
WISCONSIN

OWNER/DEVELOPER:

CITY OF ROCHELLE
420 NORTH SIXTH STREET
ROCHELLE, IL 61068

PROJECT AND LOCATION:

TRANSLOAD INTERMODAL EXPANSION
ROCHELLE, ILLINOIS
SEC 23-00118-00-RP

DRAWN BY: YJ
APPROVED BY: NJC
DATE: 02/01/25
SCALE: AS NOTED

REVISIONS

REV. NO.	DESCRIPTION	DATE

DRAWING:

CROSS SECTIONS 15

SET TYPE:

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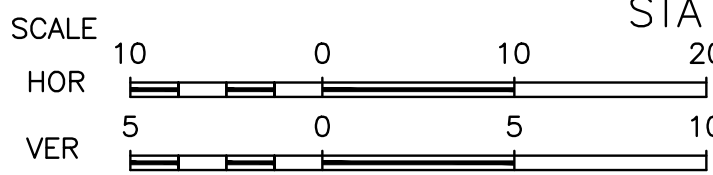
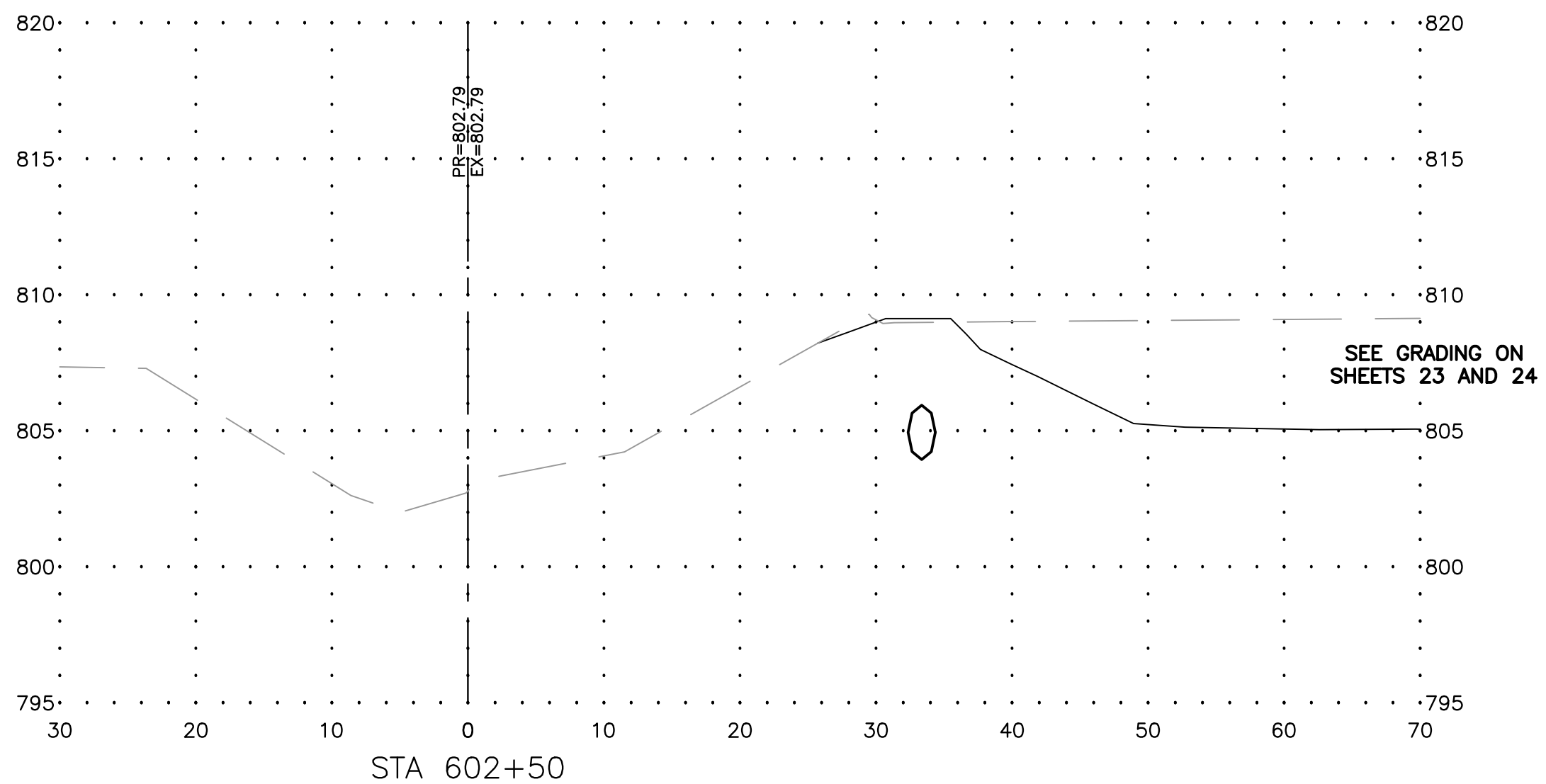
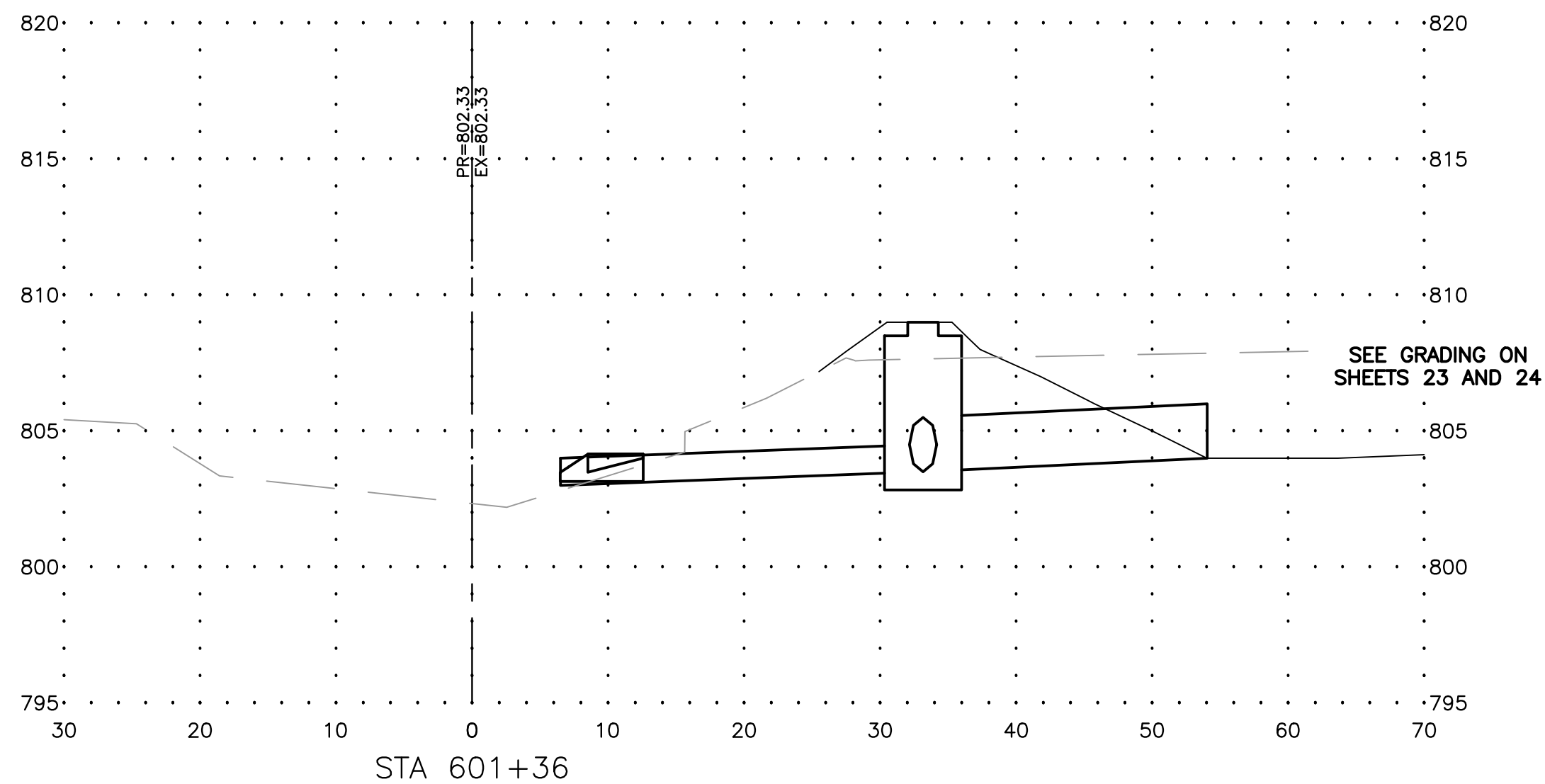
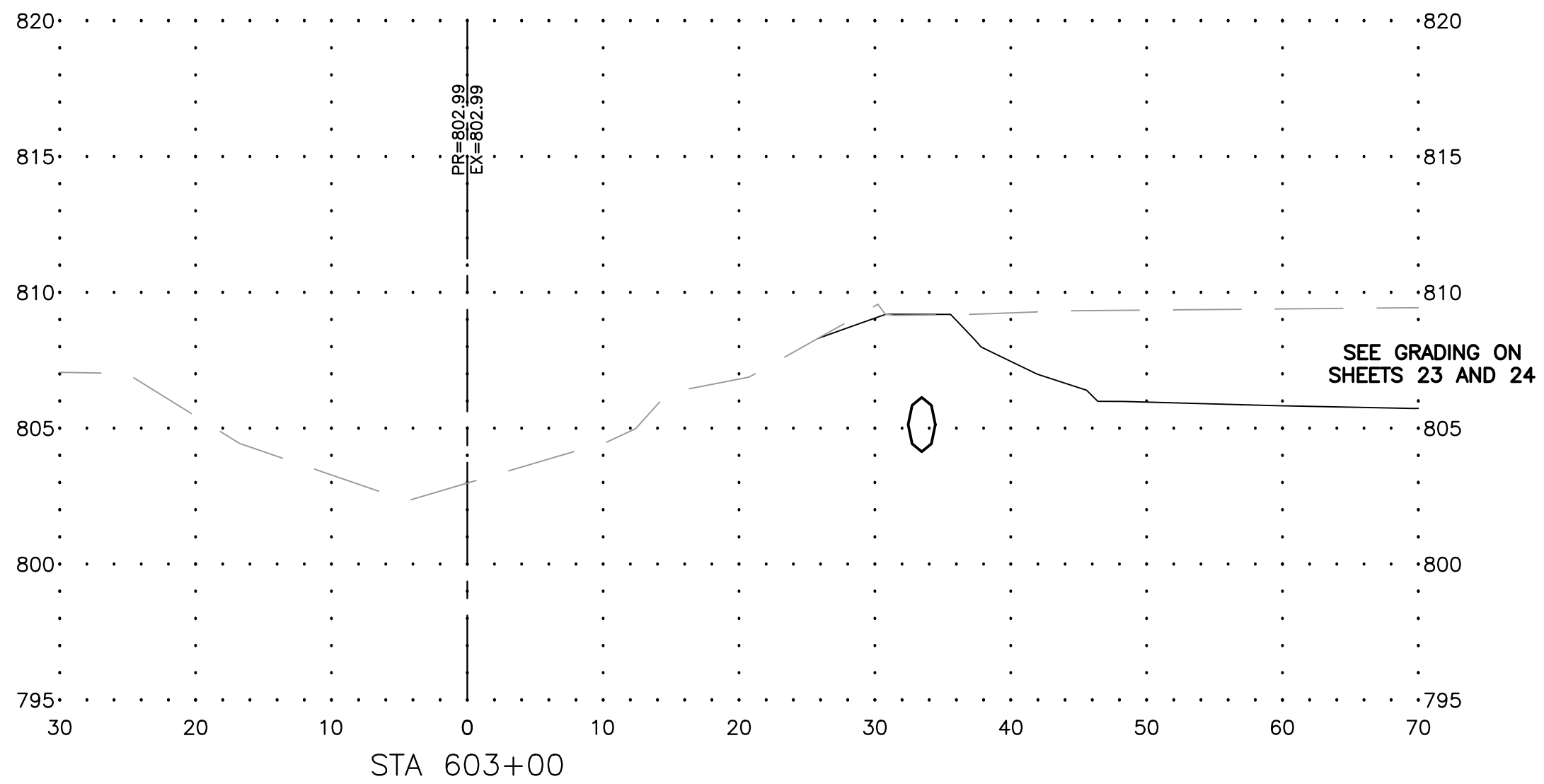
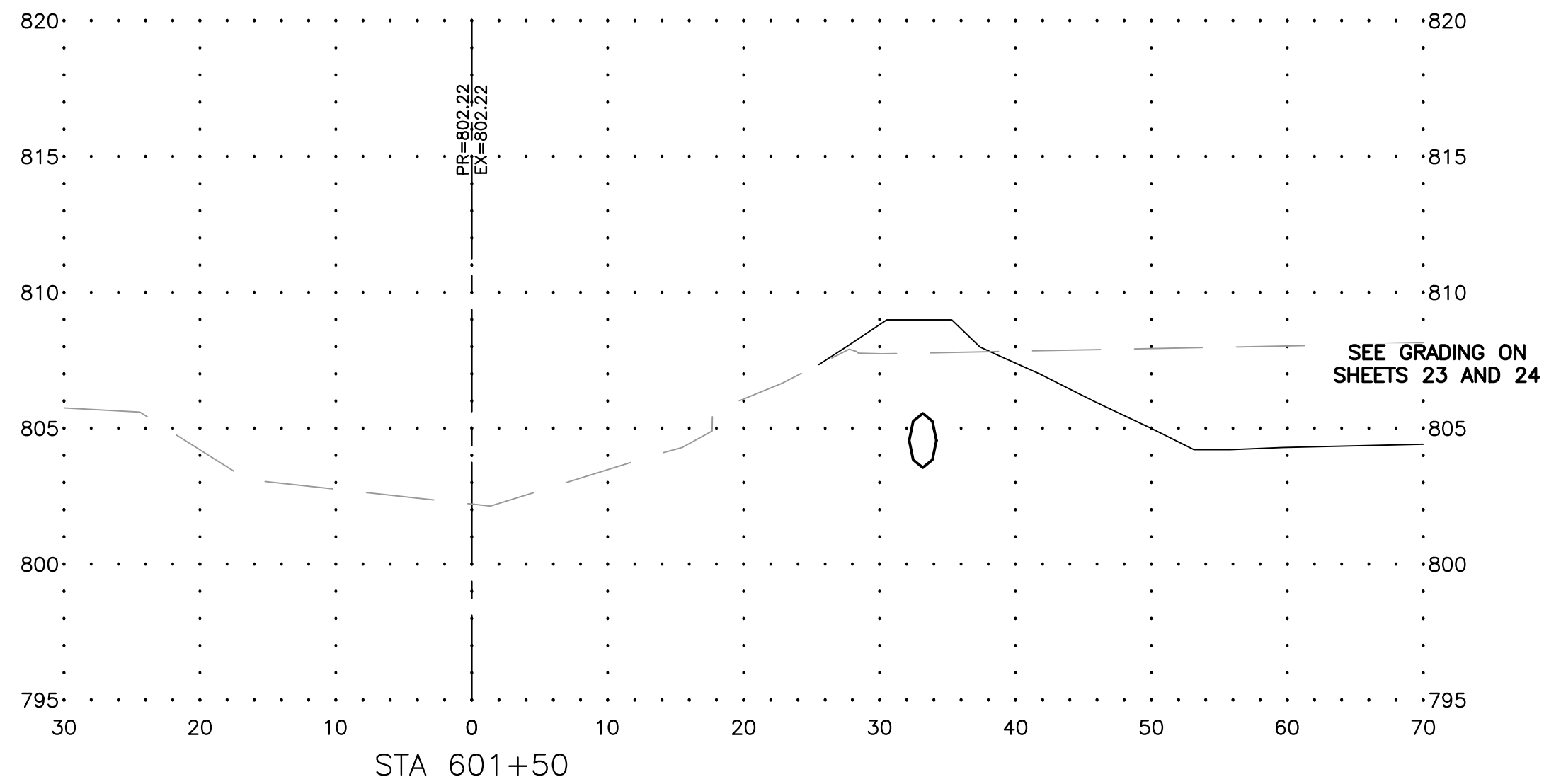
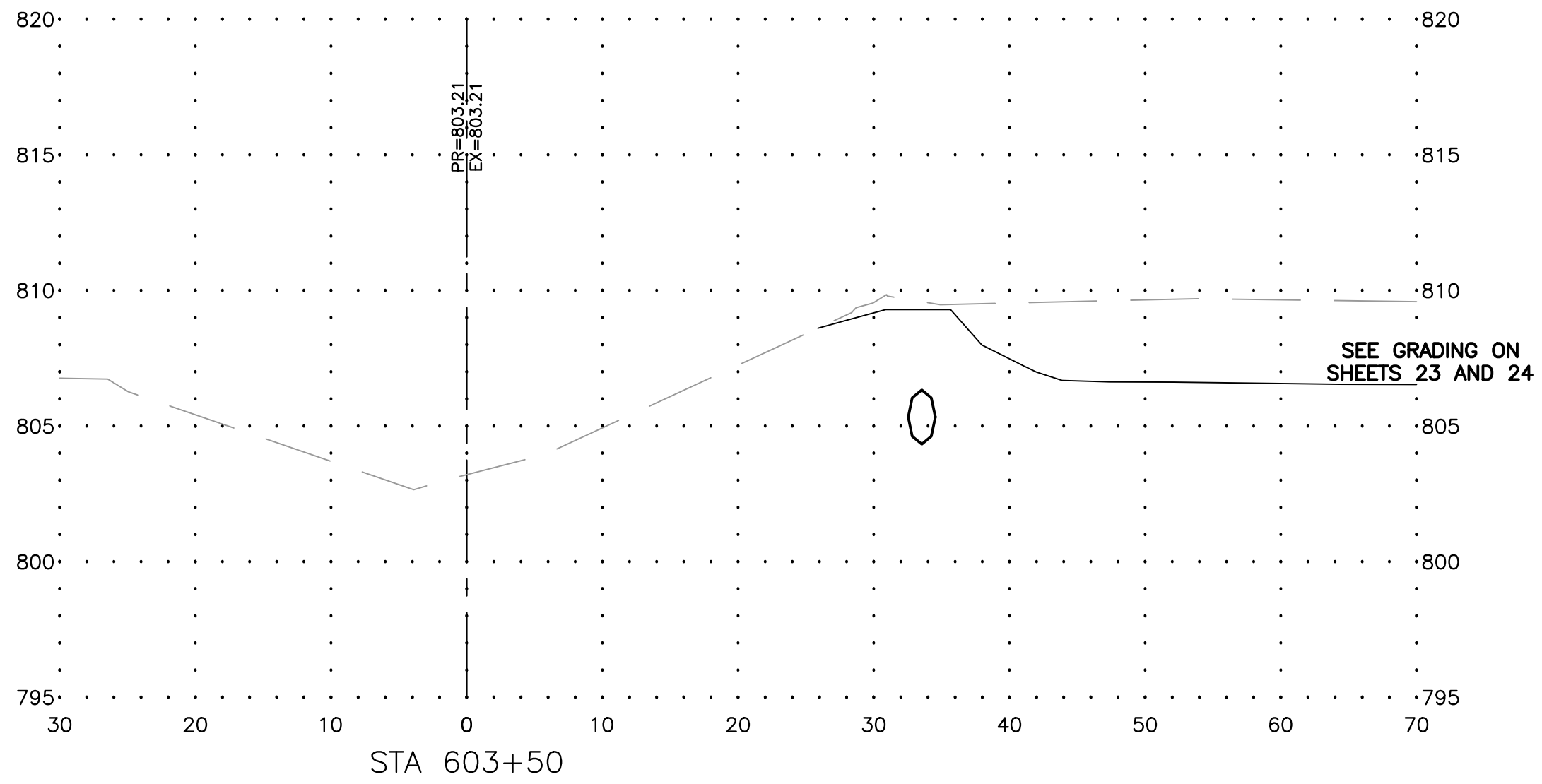
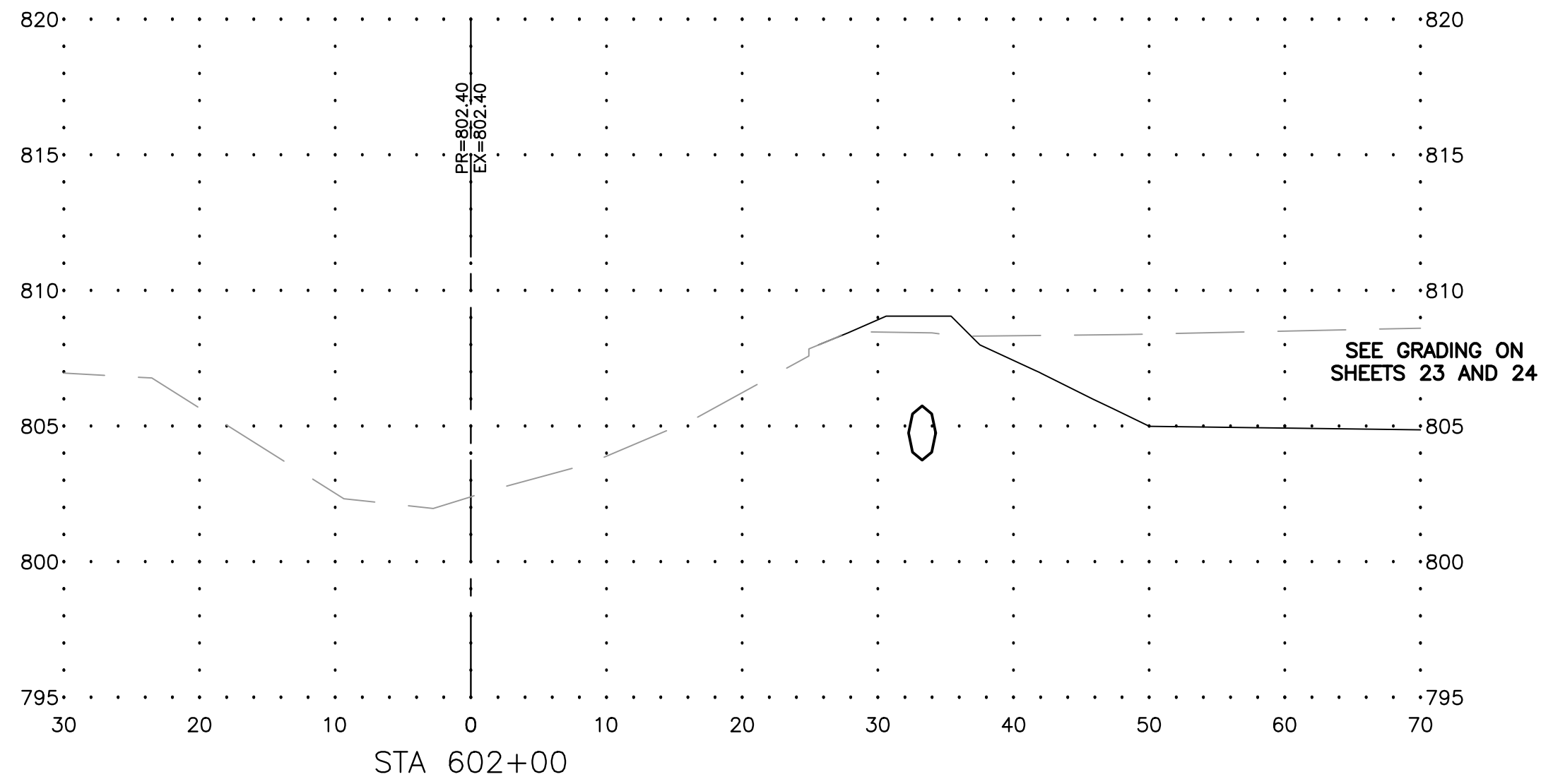
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JOB NUMBER:

22-1415

SHEET NUMBER:

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ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
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DRAWN BY: YJ
APPROVED BY: NJC
DATE: 02/01/25
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:

CROSS SECTIONS 16

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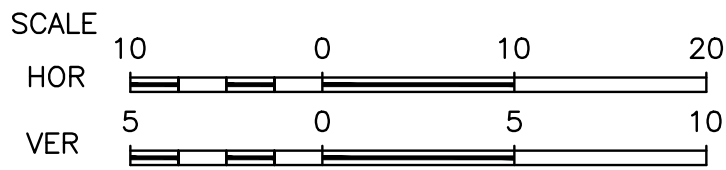
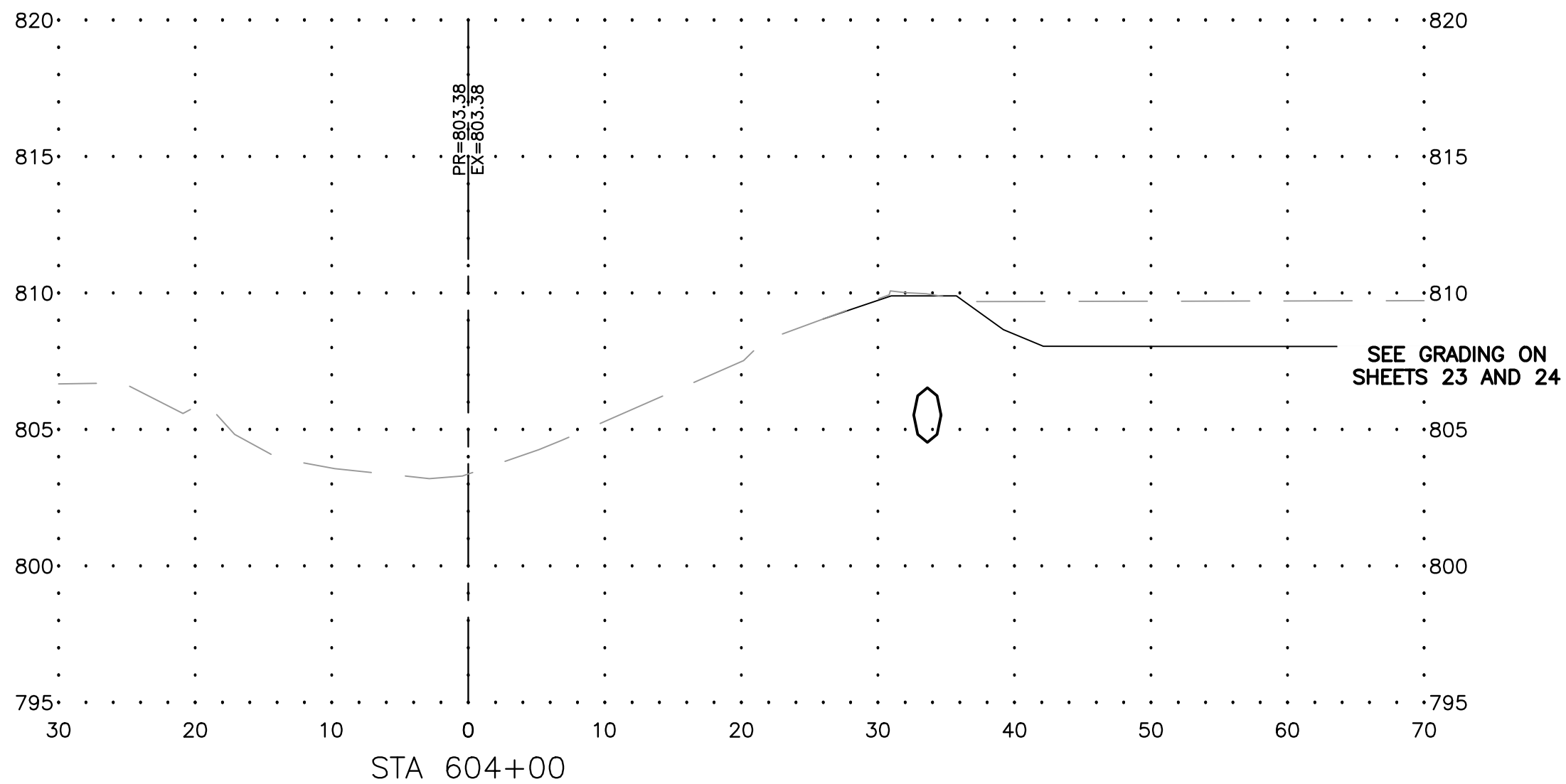
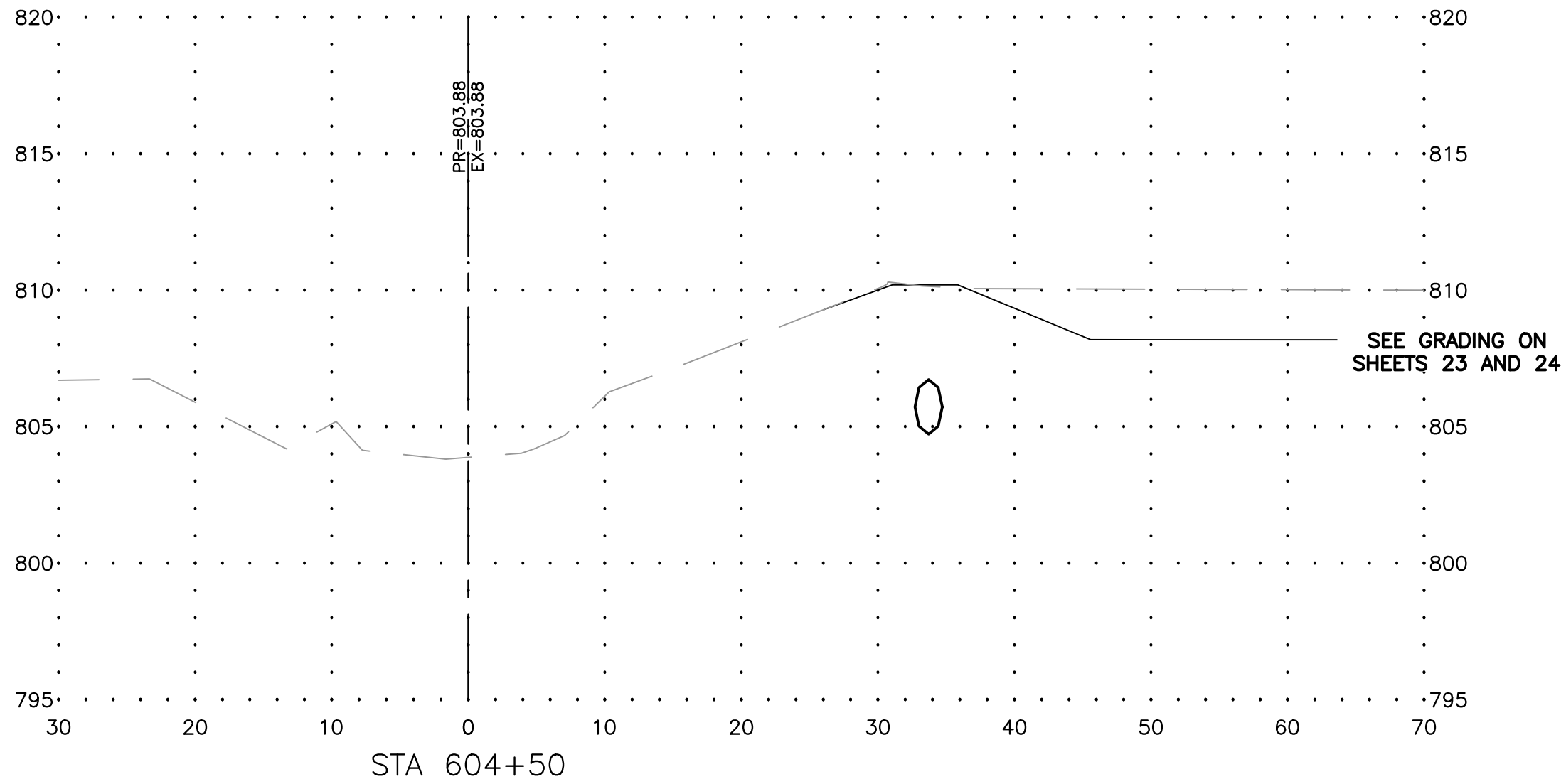
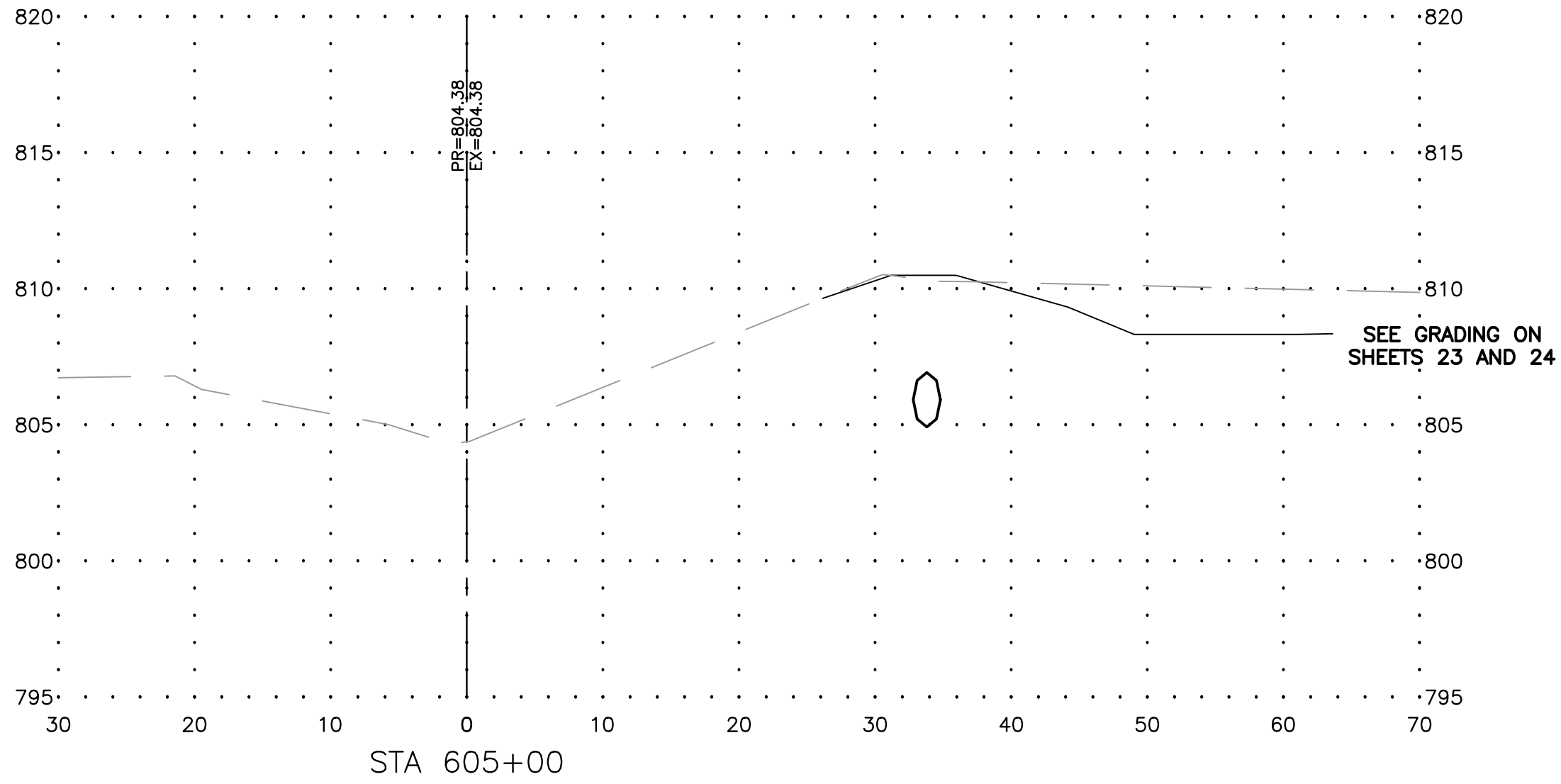
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JOB NUMBER:

22-1415

SHEET NUMBER:

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ENGINEERING & ENVIRONMENTAL

ILLINOIS DESIGN FIRM NO. 184-003525

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DATE: 02/01/25
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:

CROSS SECTIONS 17

SET TYPE:

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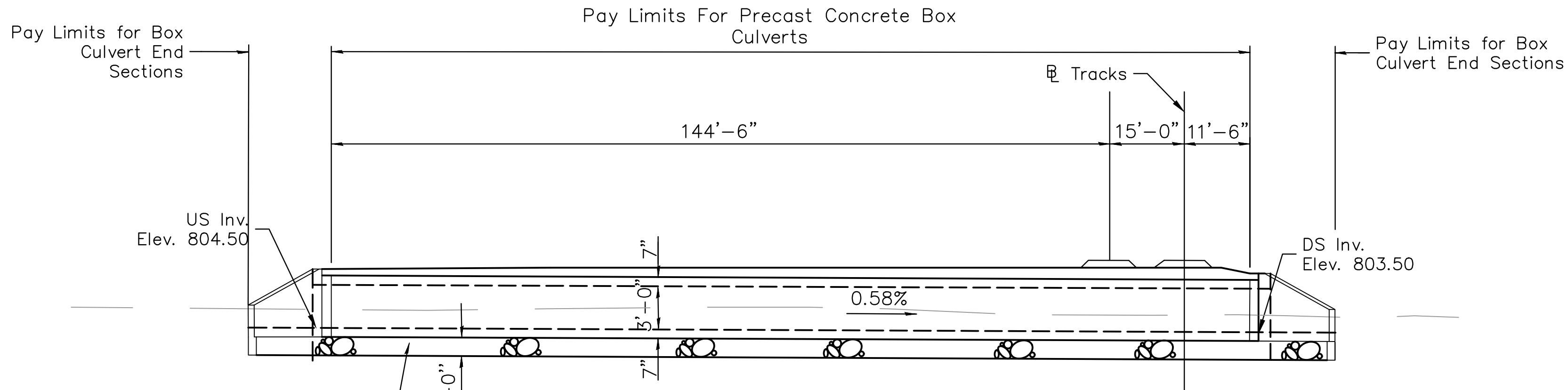
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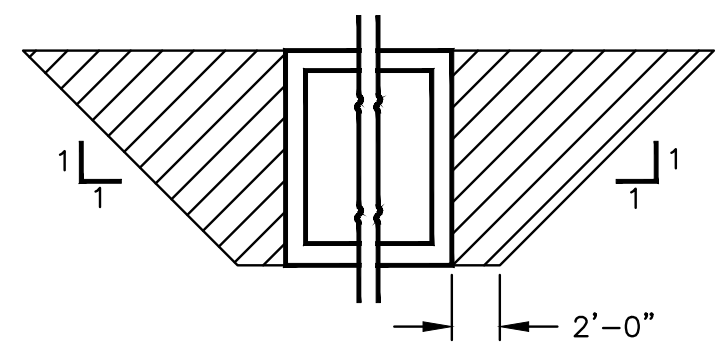
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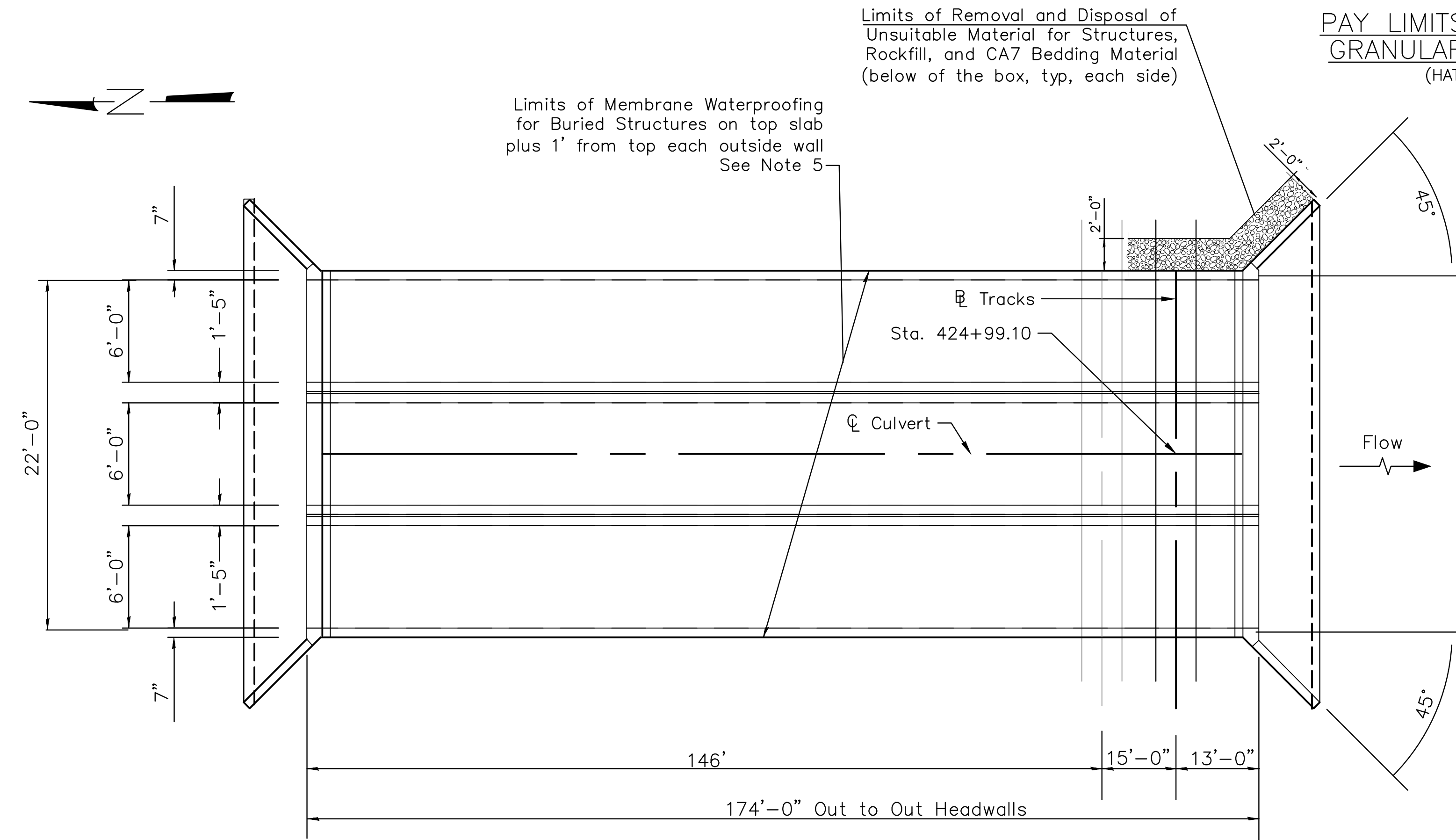
44 of 50



LONGITUDINAL SECTION
(Dim. at Rt. Z's)
Looking East

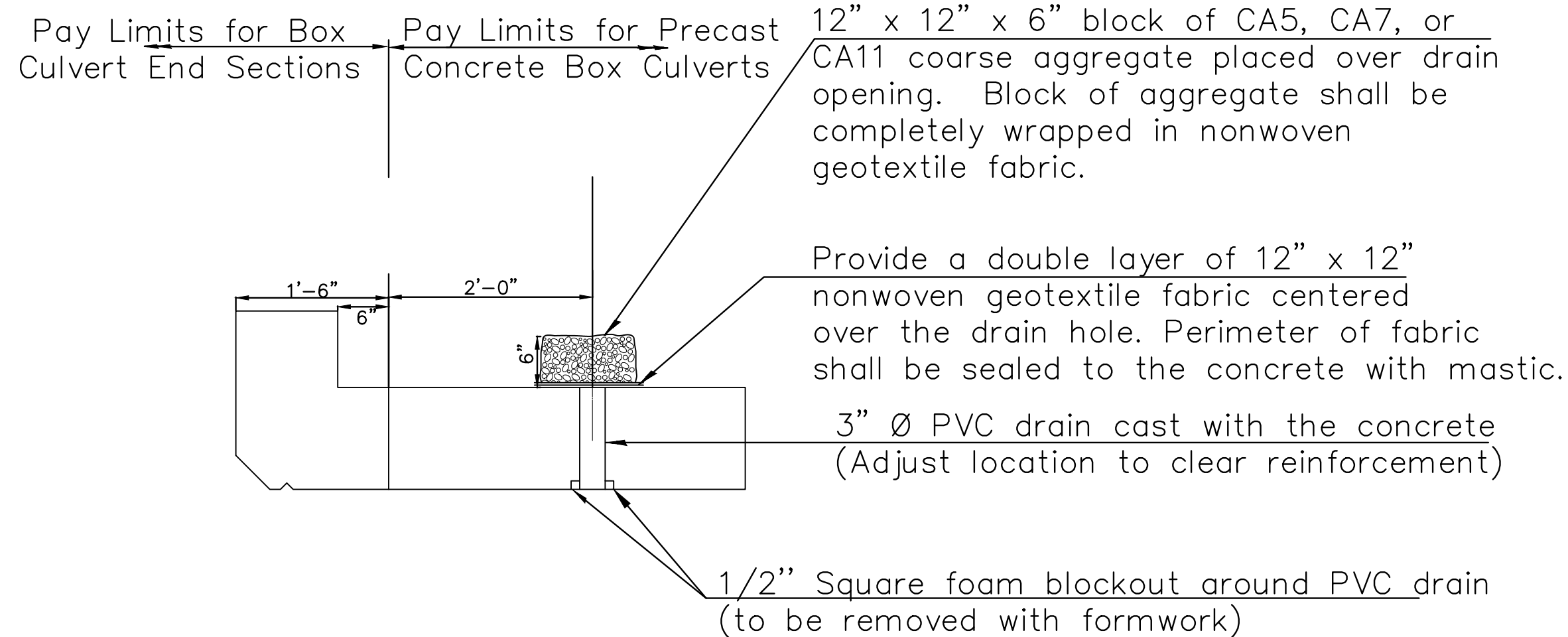


PAY LIMITS FOR POROUS
GRANULAR EMBANKMENT
(HATCHED AREA)



PLAN

- GENERAL NOTES**
- It shall be the responsibility of the Contractor to divert the stream flow during construction in order to keep the construction area free of water. The method of water diversion shall be subject to the approval of the Engineer and the cost shall be included with the cost of "Precast Concrete Box Culverts 6'x 3'".
 - Structural Seal does not include design of precast elements.
 - Contractor to confirm all precast culvert dimension with supplier before starting construction. All applicable cast-in-place concrete dimensions shall match precast culvert dimensions.
 - Waterproofing Membrane System shall be applied to the top of the Cast-in-place Culvert top slab and top 1 ft. of the outside walls for the full length headwall to headwall.
 - Nonwoven geotextile fabric shall conform to the requirements of Art. 1080.01 of the Standard Specifications. The minimum weight of the fabric shall be 6 ounces per square yard.
 - Precast concrete box culverts and box culvert end sections shall be backfilled with Porous Granular Embankment in the required areas on the sides of the box culvert from the top of the box culvert to the bottom of the box culvert. This area of PGE is included in the Porous Granular Embankment pay item.



DRAIN DETAIL

(All costs associated with furnishing and constructing the above drain detail will not be measured for payment but shall be included in the contract unit price for the associated work.)

LOADING
Cooper E80

DESIGN SPECIFICATIONS

A.R.E.M.A. Volume 2

DESIGN STRESSES

PRECAST UNITS

f'_c = 5,000 psi
 f_y = 65,000 psi (Welded Wire Reinforcement)

FIELD UNITS (CAST-IN-PLACE)

f'_c = 3,500 psi at 28 days
 f_y = 65,000 psi (Welded Wire Reinforcement)

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Precast Concrete Box Culverts 6' x 3' Special	Foot	513
Box Culverts End Sections, Culvert No. 1	Each	2
Membrane Waterproofing for Buried Structures	Sq. Yd.	459
Rock Fill- Foundation	Cu. Yd.	248.3
Removal and Disposal of Unsuitable Material for Structures	Cu. Yd.	325
Porous Granular Embankment	Cu. Yd	112

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DRAWN BY: YJ
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DATE: 02/01/25
SCALE: AS NOTED

REVISIONS		
REV. NO.	DESCRIPTION	DATE

DRAWING:
DETAILS

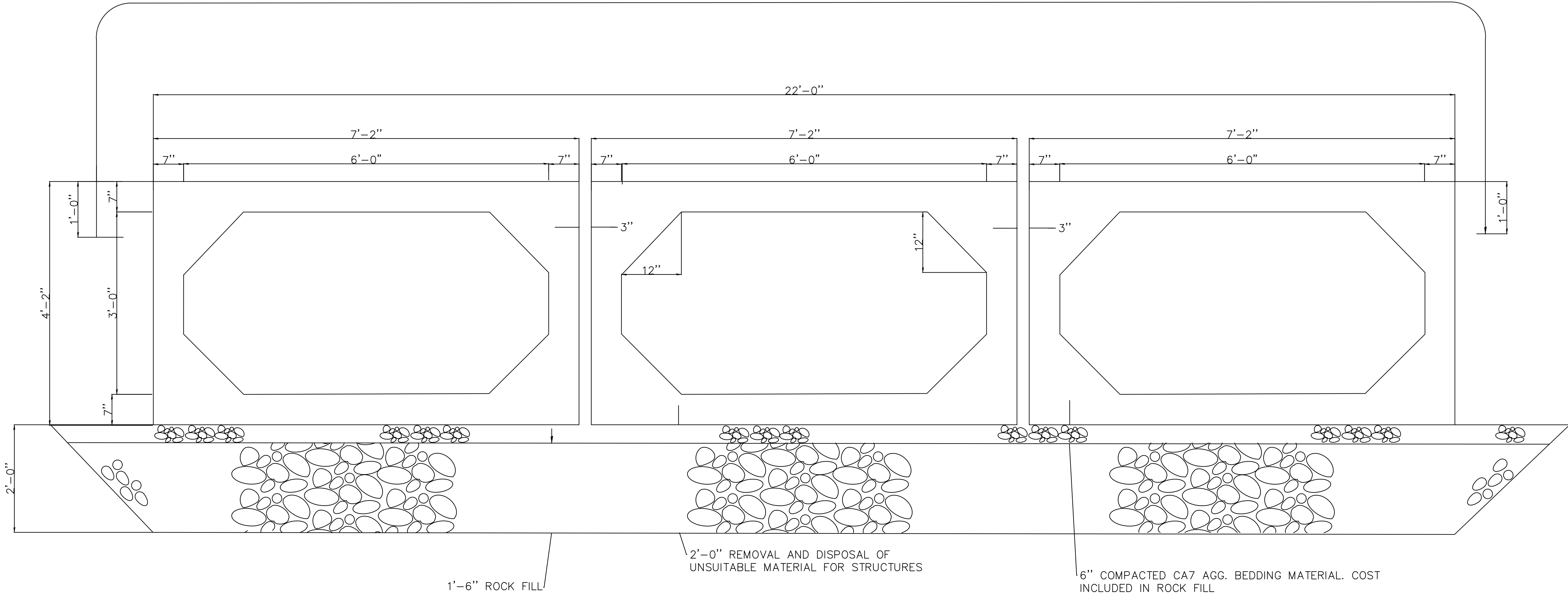
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JOB NUMBER:
22-1415

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45 of 50

PAY LIMITS FOR MEMBRANE WATERPROOFING FOR BURIED STRUCTURES



SECTION THRU PRECAST TRIPLE BOX CULVERT

Dimensions, reinforcement and materials for precast concrete box sections shall be designed and manufactured according to the requirements of ASTM C1577 and AREMA Manual for Railroad Engineering and shall be sealed by a Structural Engineer in the State of Illinois. Cost included with Precast Concrete Box Culvert 6'x3' Special.

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REVISIONS		
REV. NO.	DESCRIPTION	DATE

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DETAILS

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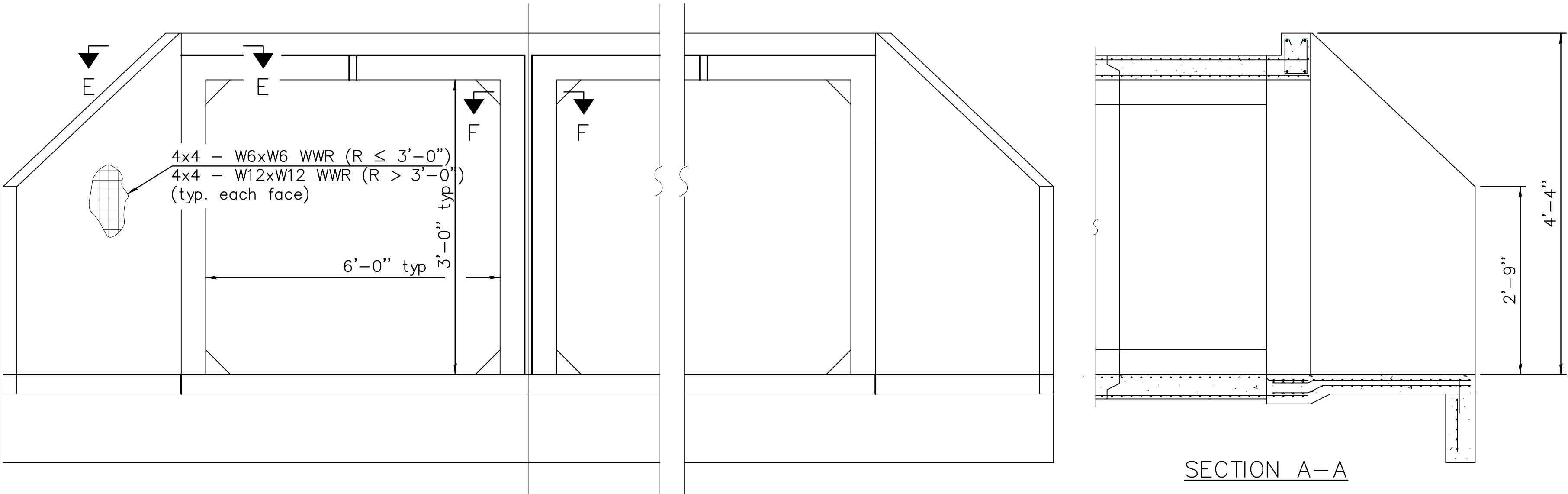
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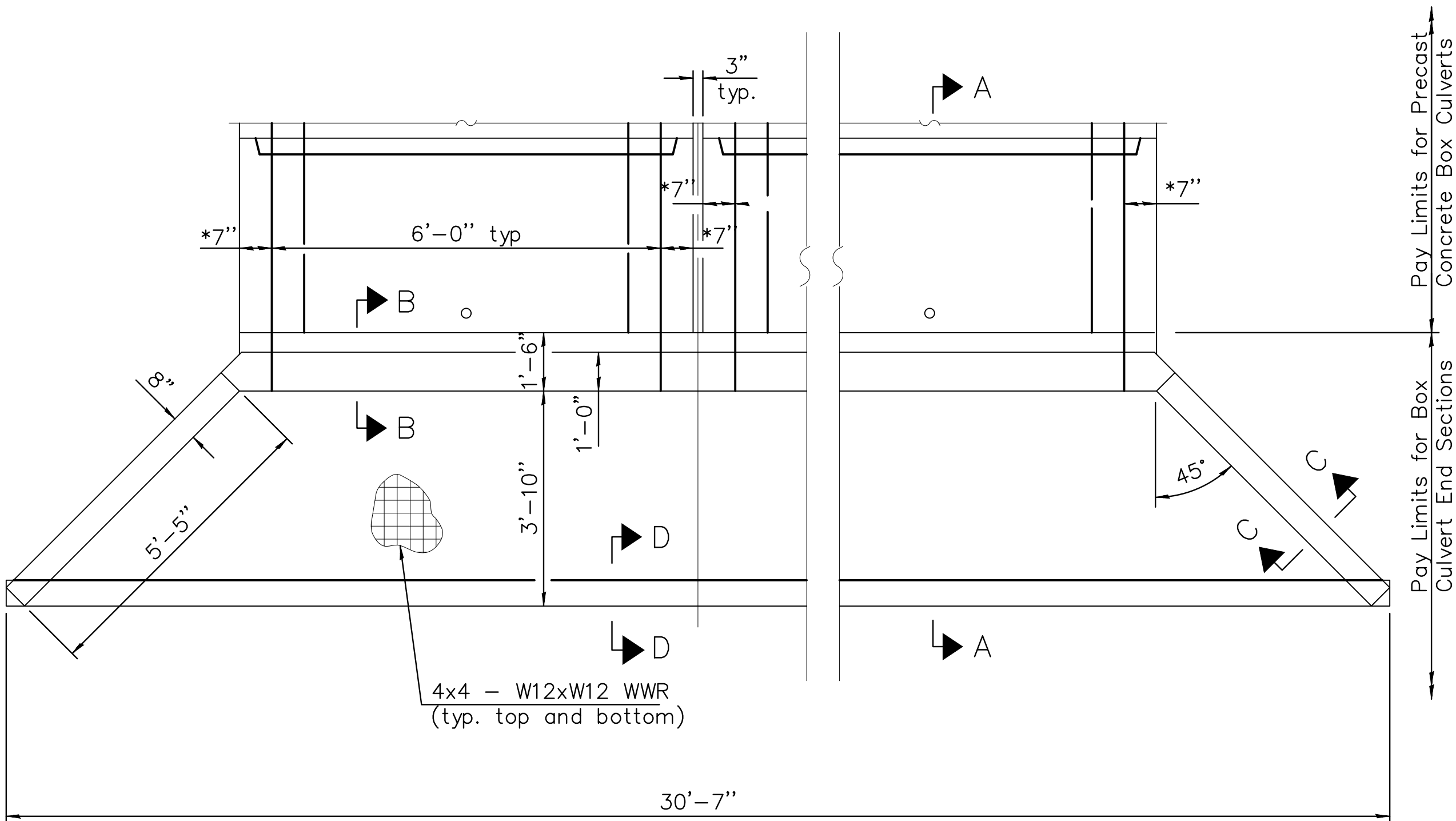
SHEET NUMBER:

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END VIEW

SECTION A-A



PLAN

GENERAL NOTES

Box Culvert End Sections shall be constructed according to the requirements of Section 540 of the Standard Specifications except as modified herein. End sections will be paid for at the contract unit price per each for Box Culvert End Sections.

Box section dimensions, materials, and reinforcement details for Box Culvert End Sections shall be according to the requirements for ASTM C 1577 as required for the design of the portion of the culvert within the limits of Precast Concrete Box Culverts except as modified herein.

The details contained herein are for constructing the end sections using cast-in-place (CIP) construction. The Contractor may propose to furnish the end sections using precast construction methods and the end sections may consist of multiple precast concrete segments. The Contractor shall be responsible for determining all details associated with the precast option including any strengthening or stiffening provisions necessary for handling the precast segments. Conceptual details followed by shop drawings and design calculations sealed by an Illinois Licensed Structural Engineer shall be submitted to the Engineer for review and approval. Elements of the precast option shall at a minimum result in the same wingwall geometry and not have a thickness less than that detailed herein. The option to construct the end sections using precast construction methods shall be at no additional charge.

Shop drawings that detail slab thickness and reinforcement layout for the Box Culvert End Sections shall be provided to the Engineer for review and approval. Reinforcement bars not detailed herein shall be detailed with a clear distance at the end of the reinforcement not less than 1/2" nor more than 2".

The contractor may use reinforcement bars in lieu of welded wire reinforcement (WWR). Reinforcement bars shall be limited to the sizes of #3 through #5 bars, a maximum spacing of the lesser of 8" or the member thickness, and shall result in an area of reinforcement equal to or greater than that provided by the WWR. Minimum lap lengths detailed herein are applicable to WWR and reinforcement bars.

Reinforcement (circumferential and longitudinal) in the precast concrete box culvert segments immediately adjacent to the box culvert end sections that is being lapped with the end section reinforcement shall not be less than that required by the precast box design or the reinforcement detailed for the end section, whichever is greater.

The calculated quantity of concrete per each end section is equal to 9.2 CU YD.

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ROCHELLE, ILLINOIS
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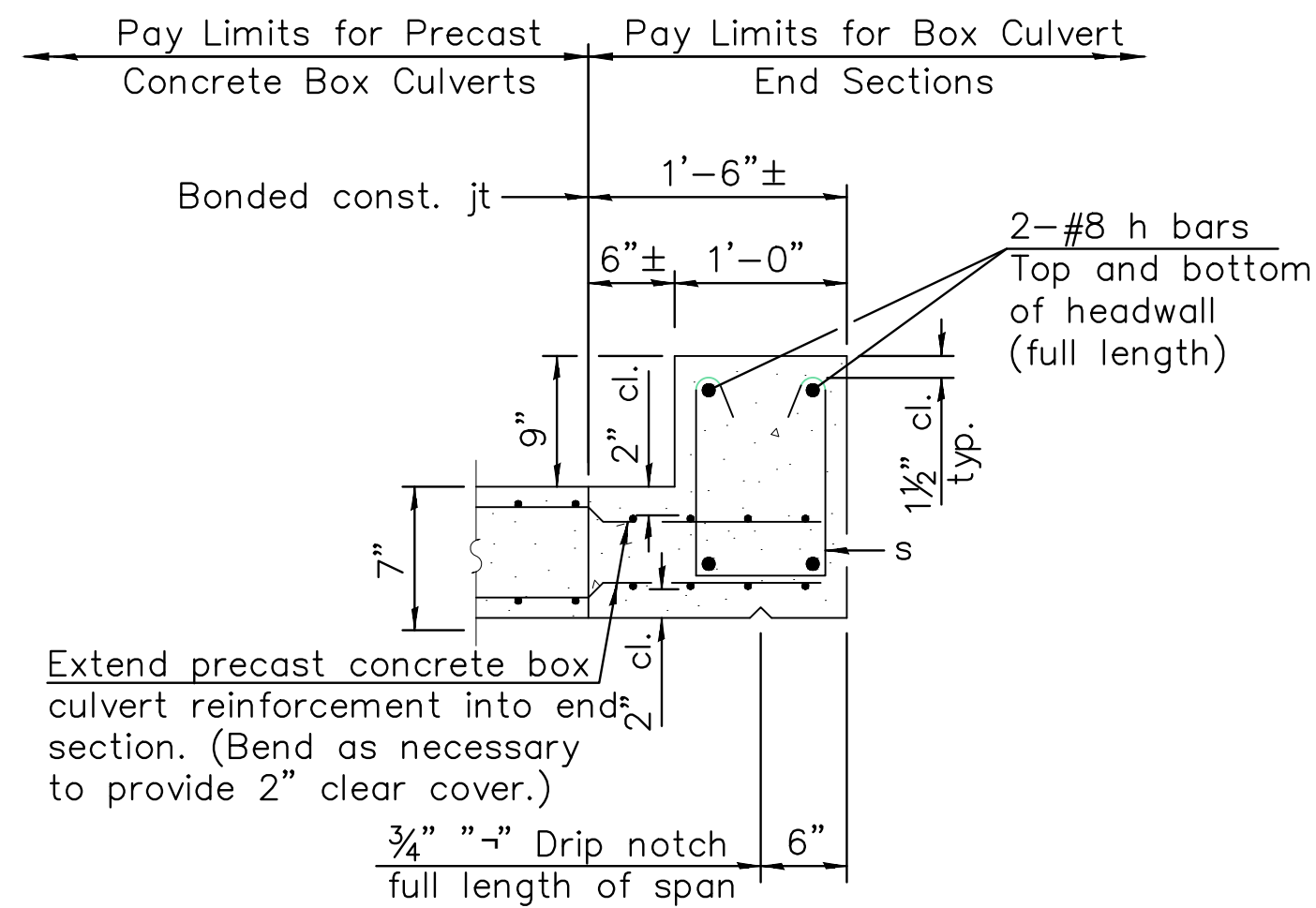
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REV. NO.	DESCRIPTION	DATE

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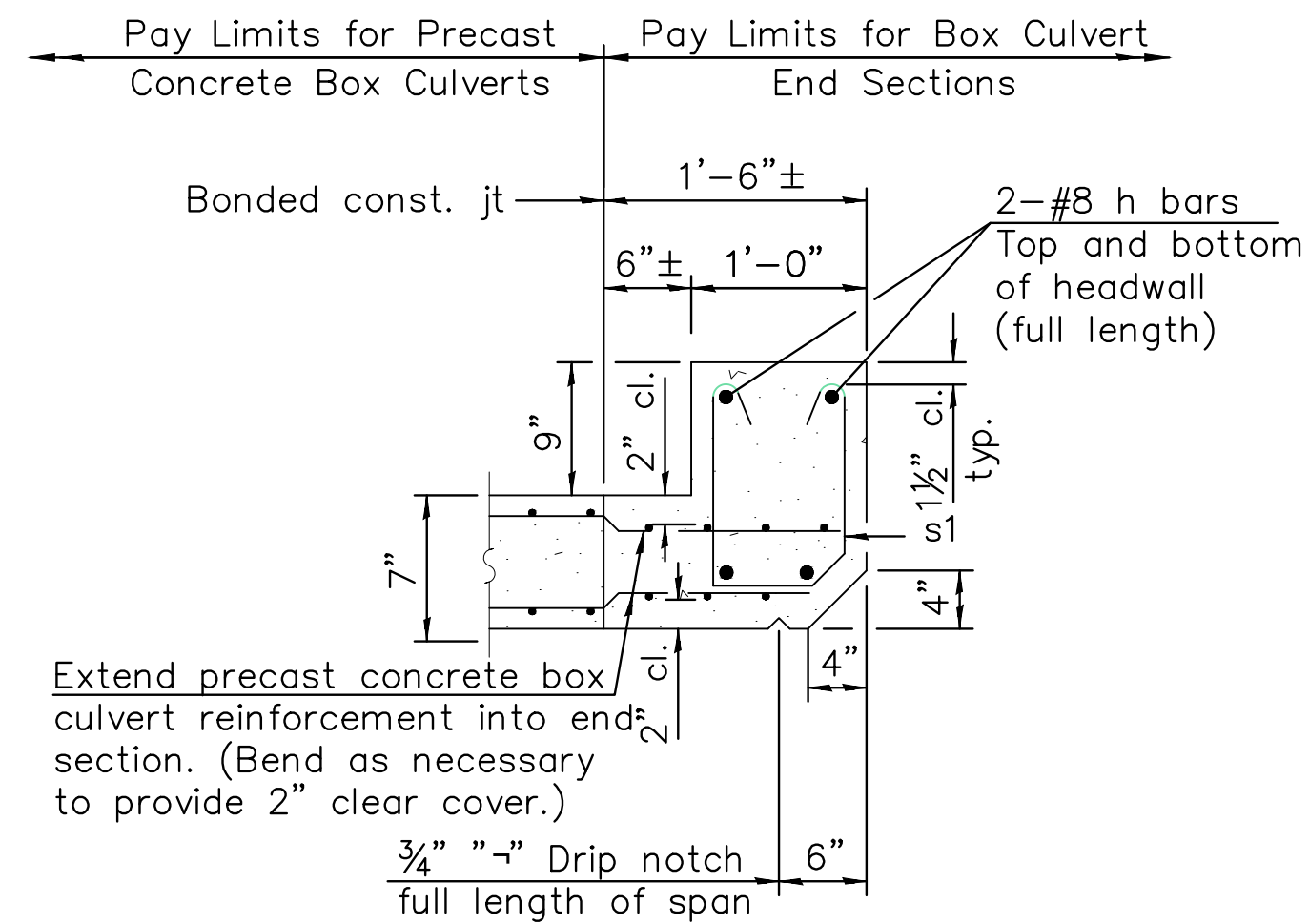
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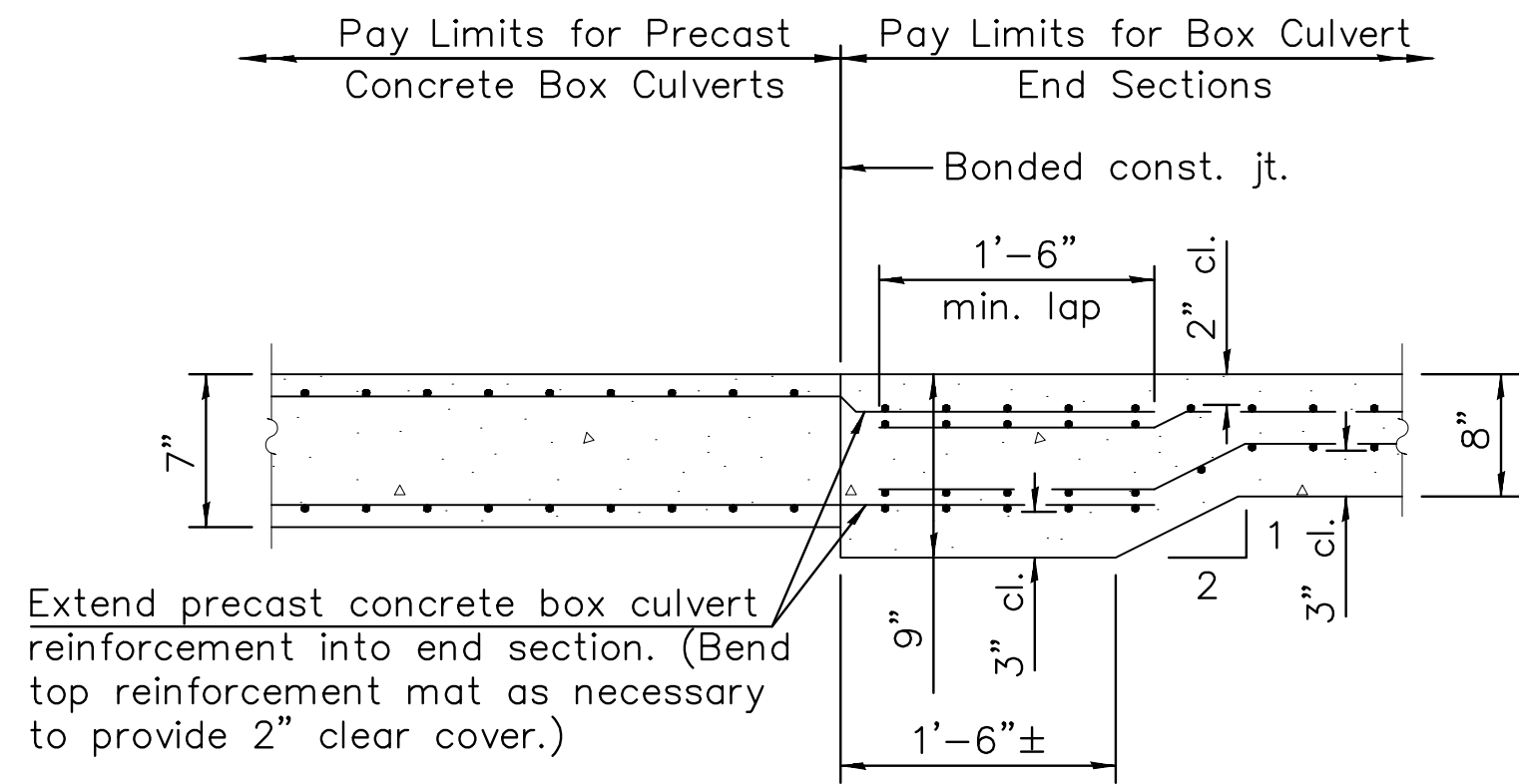
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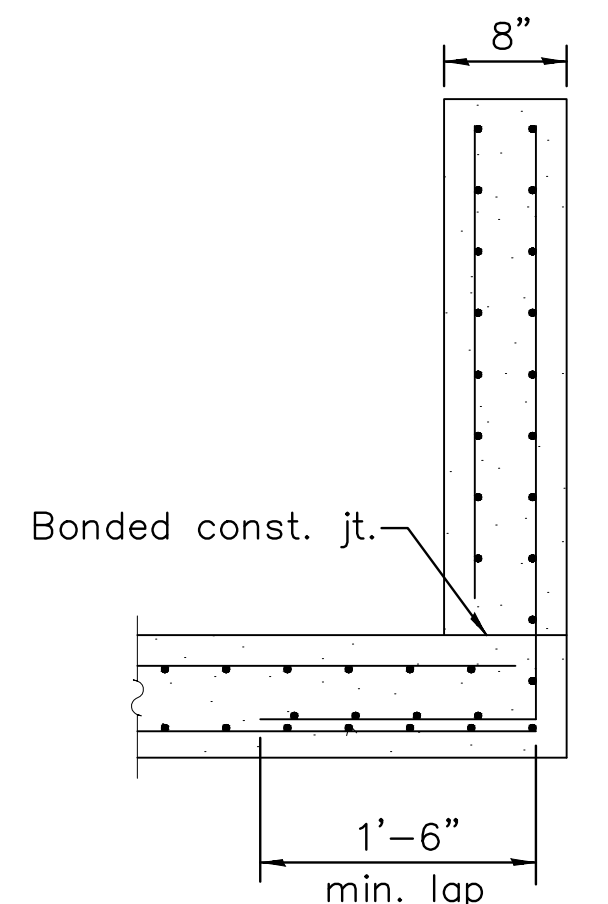
SECTION B-B
(Top slab at downstream end)



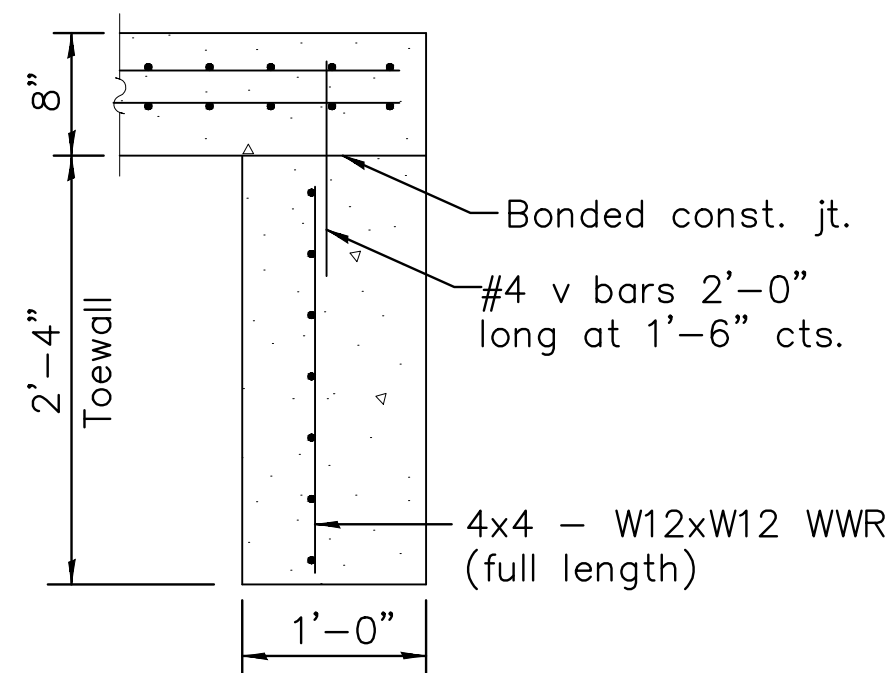
SECTION B-B
(Top slab at upstream end)



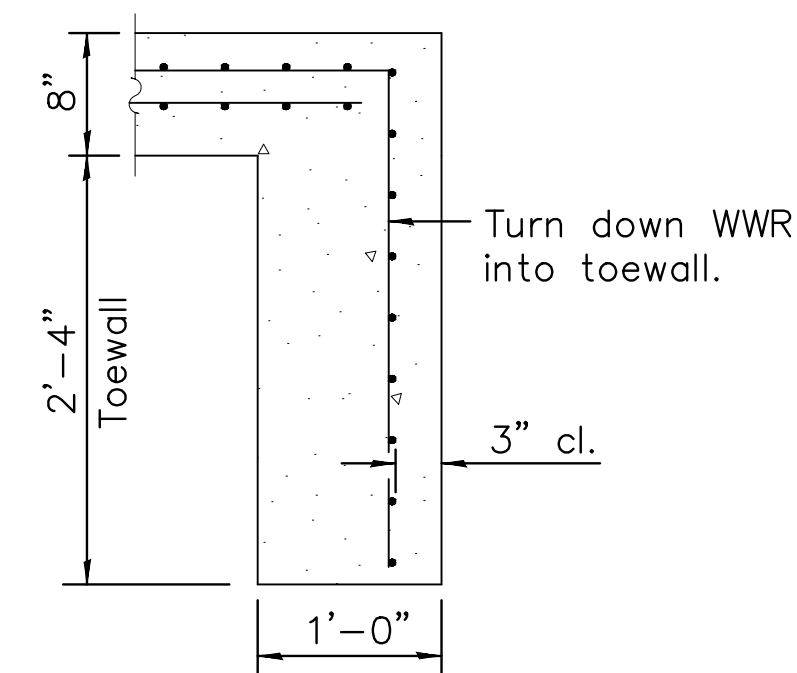
SECTION B-B
(Bottom slab)



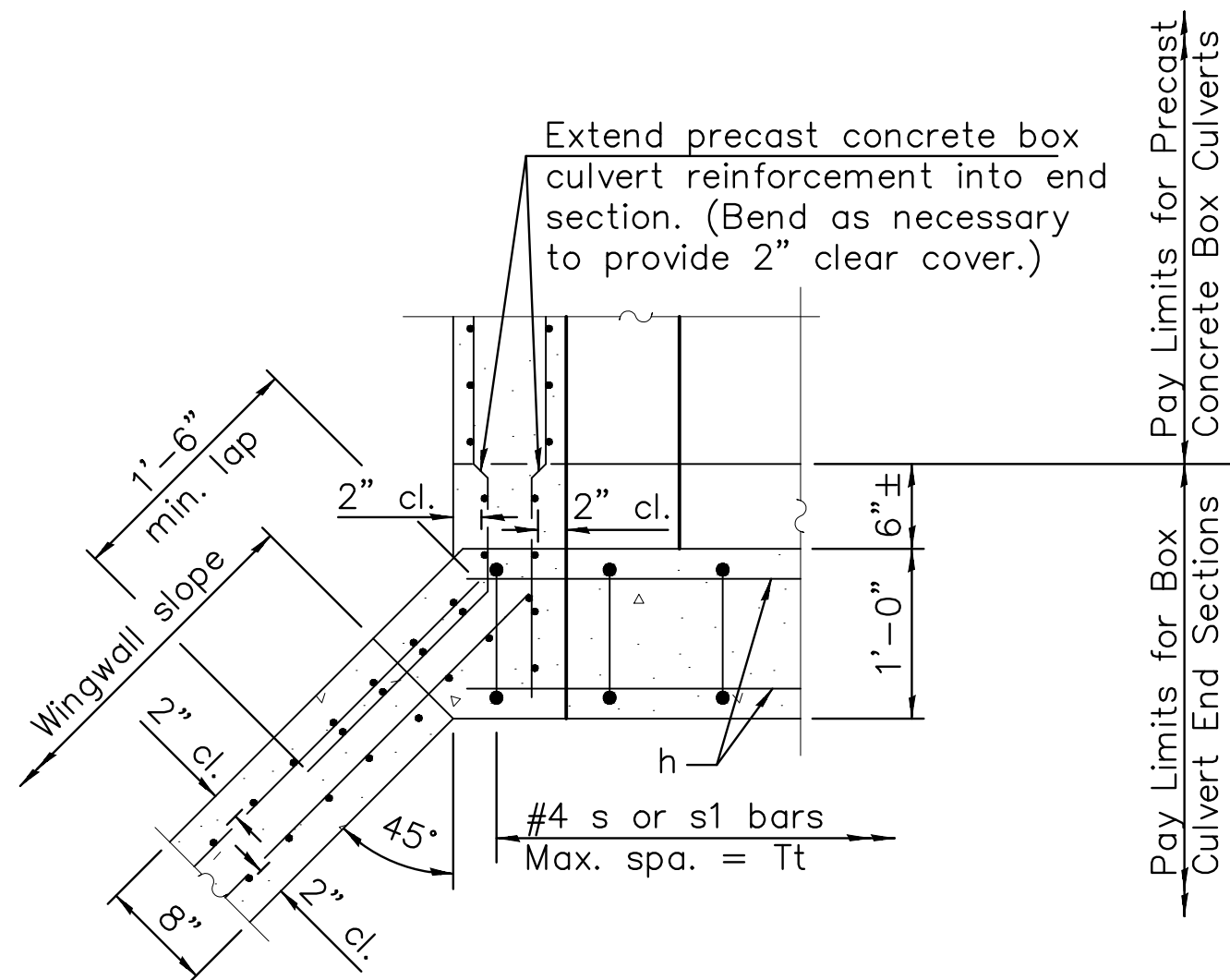
SECTION C-C



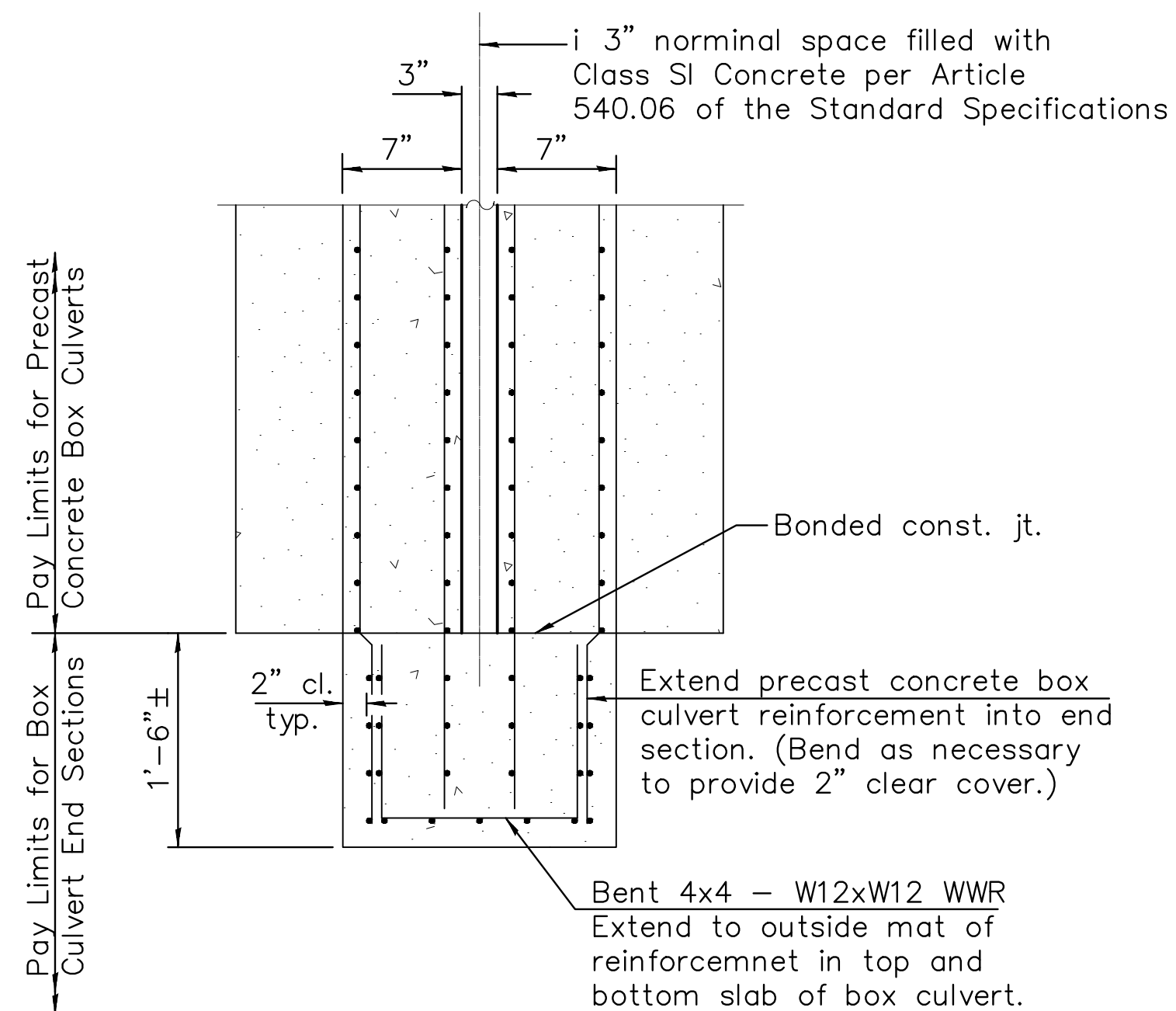
SECTION D-D



ALT. SECTION D-D



SECTION E-E



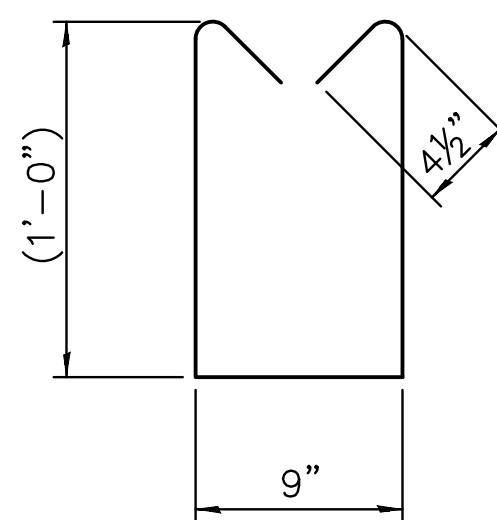
SECTION F-F
(each inside wall)

TOEWALL CONSTRUCTION SEQUENCE

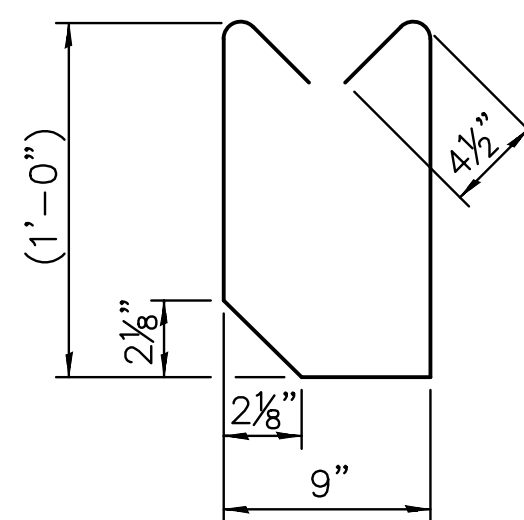
1. Perform excavation and construct toewall.
2. Backfill accordingly and prepare bedding for box culvert end sections.
3. Construct remainder of box culvert end section.

Note:

If soil conditions permit, the toewall may be poured monolithically with the bottom slab of the end section using Alt. Section D-D subject to approval from the Engineer.



BAR s



BAR s1

MCB-AES

2-17-2017

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ILLINOIS DESIGN FIRM NO. 184-003525

ILLINOIS
IOWA
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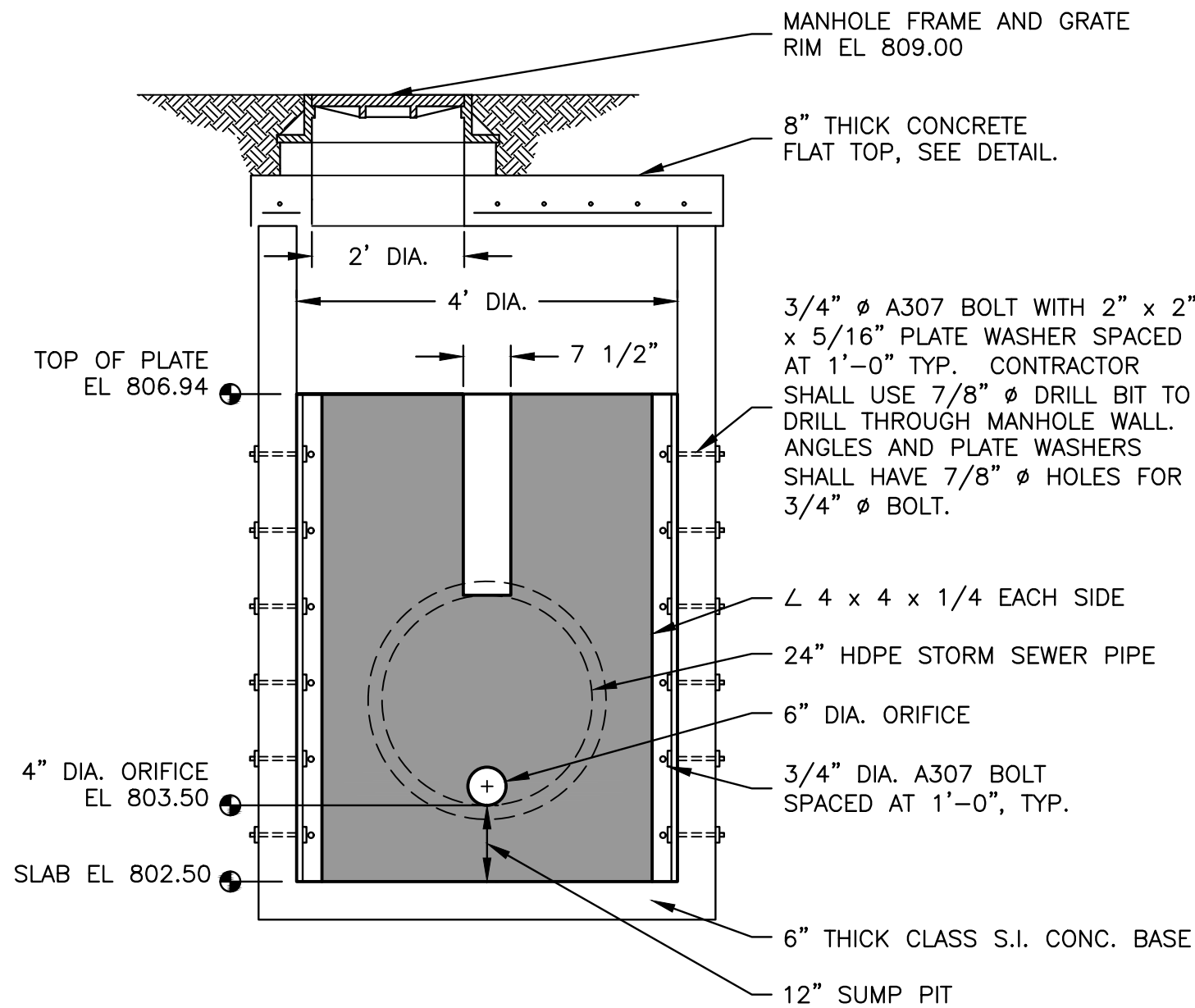
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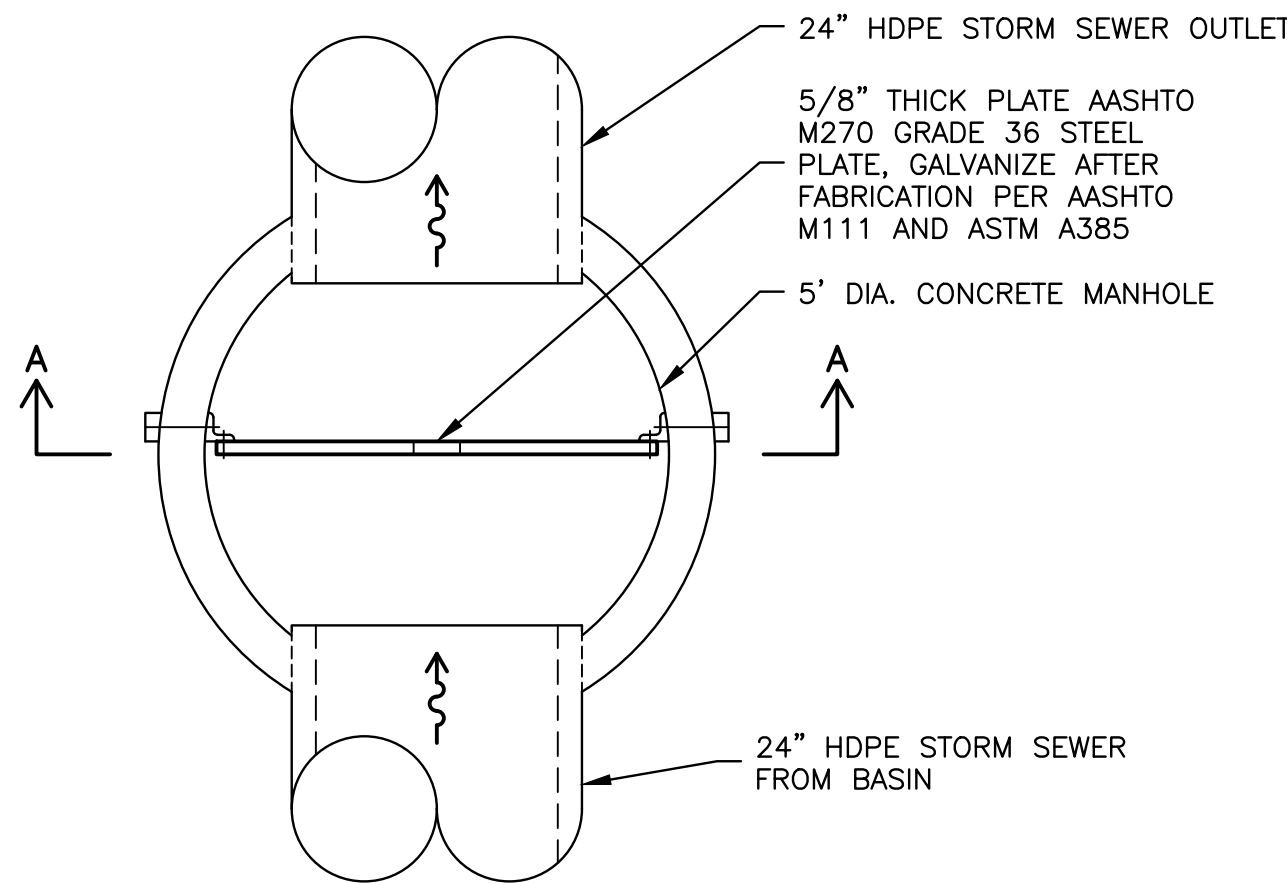
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SHEET NUMBER:

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FLOW CONTROL MANHOLE SECTION A - A



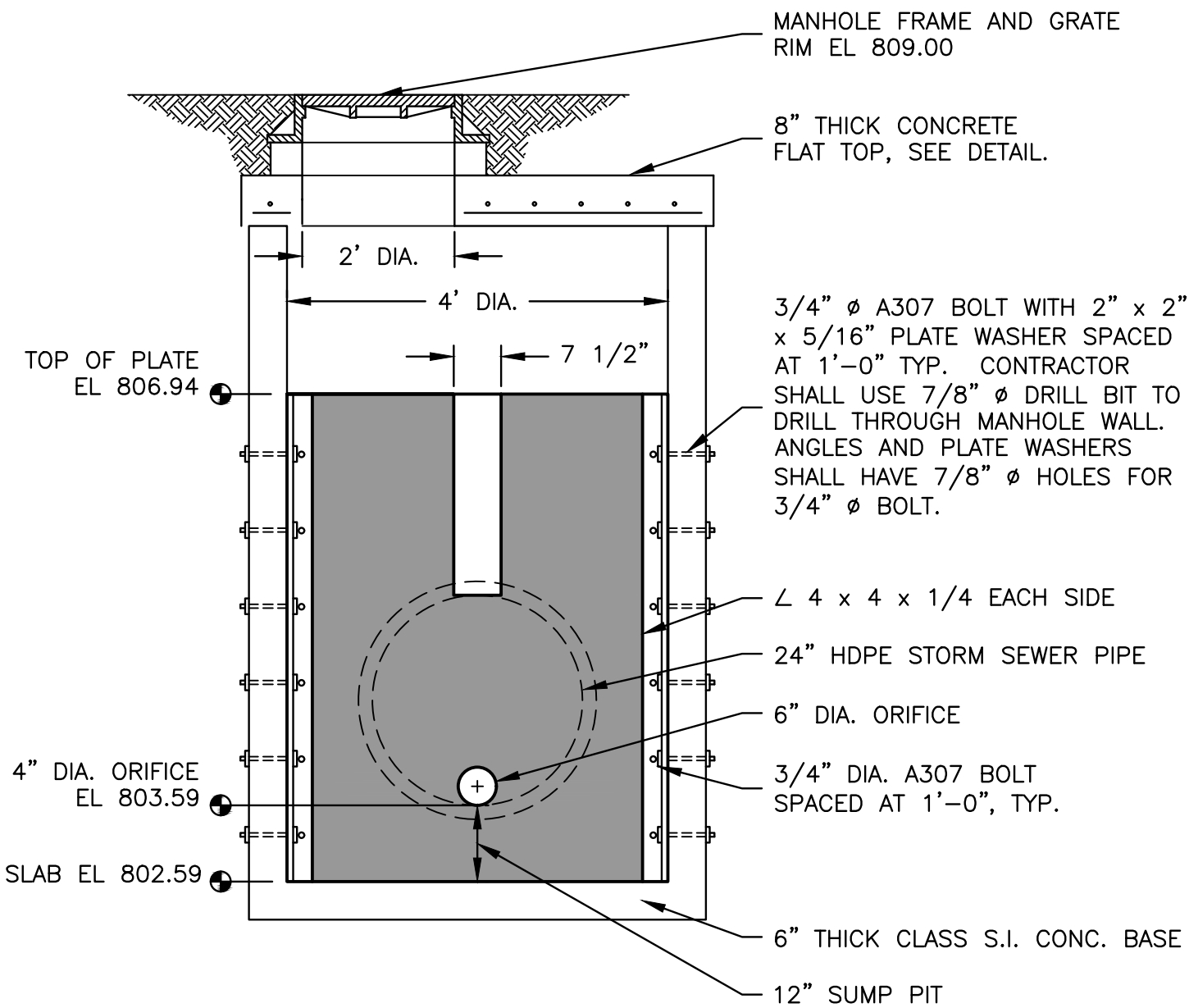
FLOW CONTROL MANHOLE PLAN

NOTE: CONCRETE STRUCTURE SHALL BE CONSTRUCTED WITH 3500 P.S.I. CONCRETE.

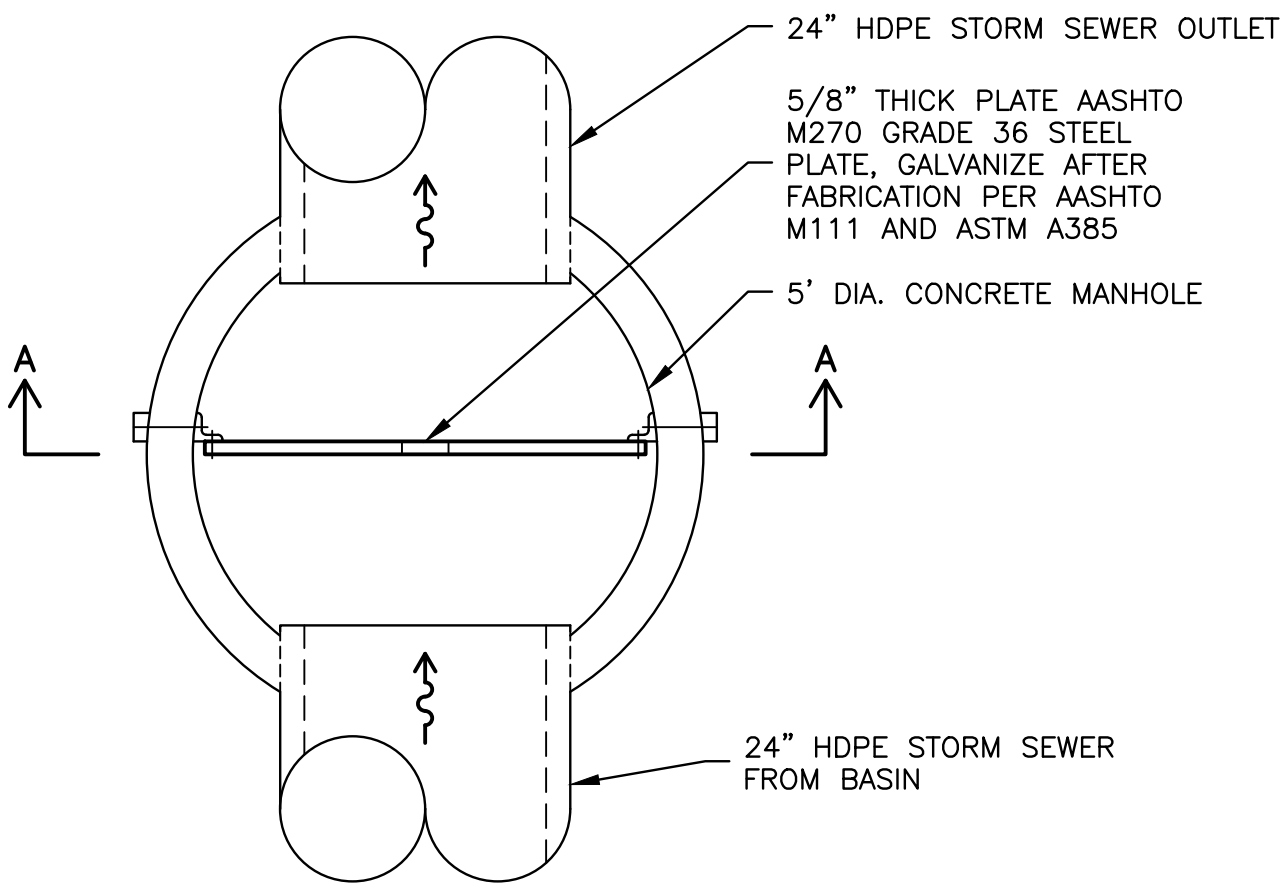
REINFORCEMENT AND THICKNESS PER MANUFACTURER. CONTRACTOR TO SUBMIT SHOP DRAWINGS.

ANGLES, BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED PER AASHTO M232.

MANHOLE SPECIAL DETAIL (WEST)
N.T.S.



FLOW CONTROL MANHOLE SECTION A - A



FLOW CONTROL MANHOLE PLAN

NOTE: CONCRETE STRUCTURE SHALL BE CONSTRUCTED WITH 3500 P.S.I. CONCRETE.

REINFORCEMENT AND THICKNESS PER MANUFACTURER. CONTRACTOR TO SUBMIT SHOP DRAWINGS.

ANGLES, BOLTS, NUTS AND WASHERS SHALL BE GALVANIZED PER AASHTO M232.

MANHOLE SPECIAL DETAIL (EAST)
N.T.S.

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DRAWN BY: YJ
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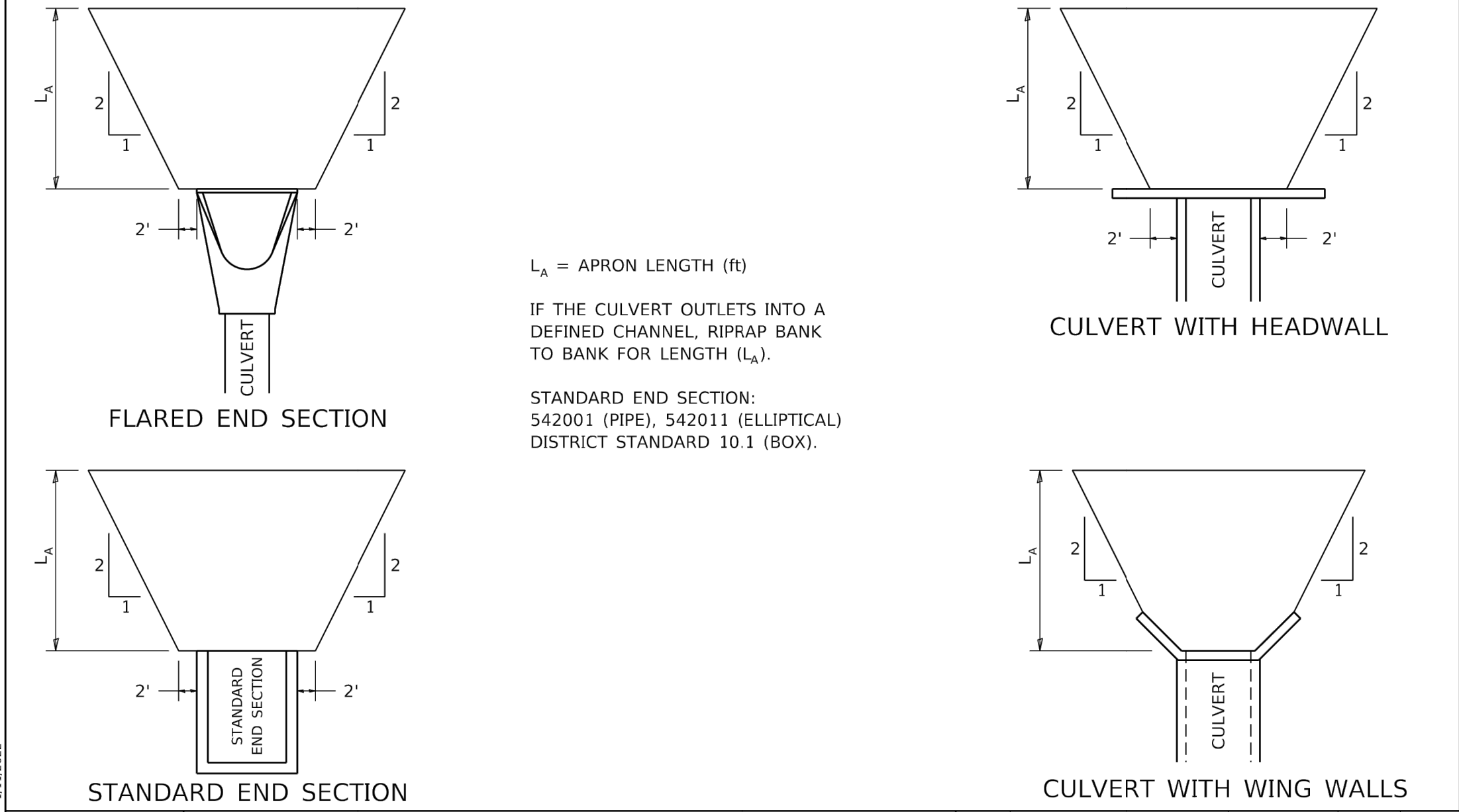
JOB NUMBER:

22-1415

SHEET NUMBER:

49 of 50

RIPRAP AT END SECTIONS



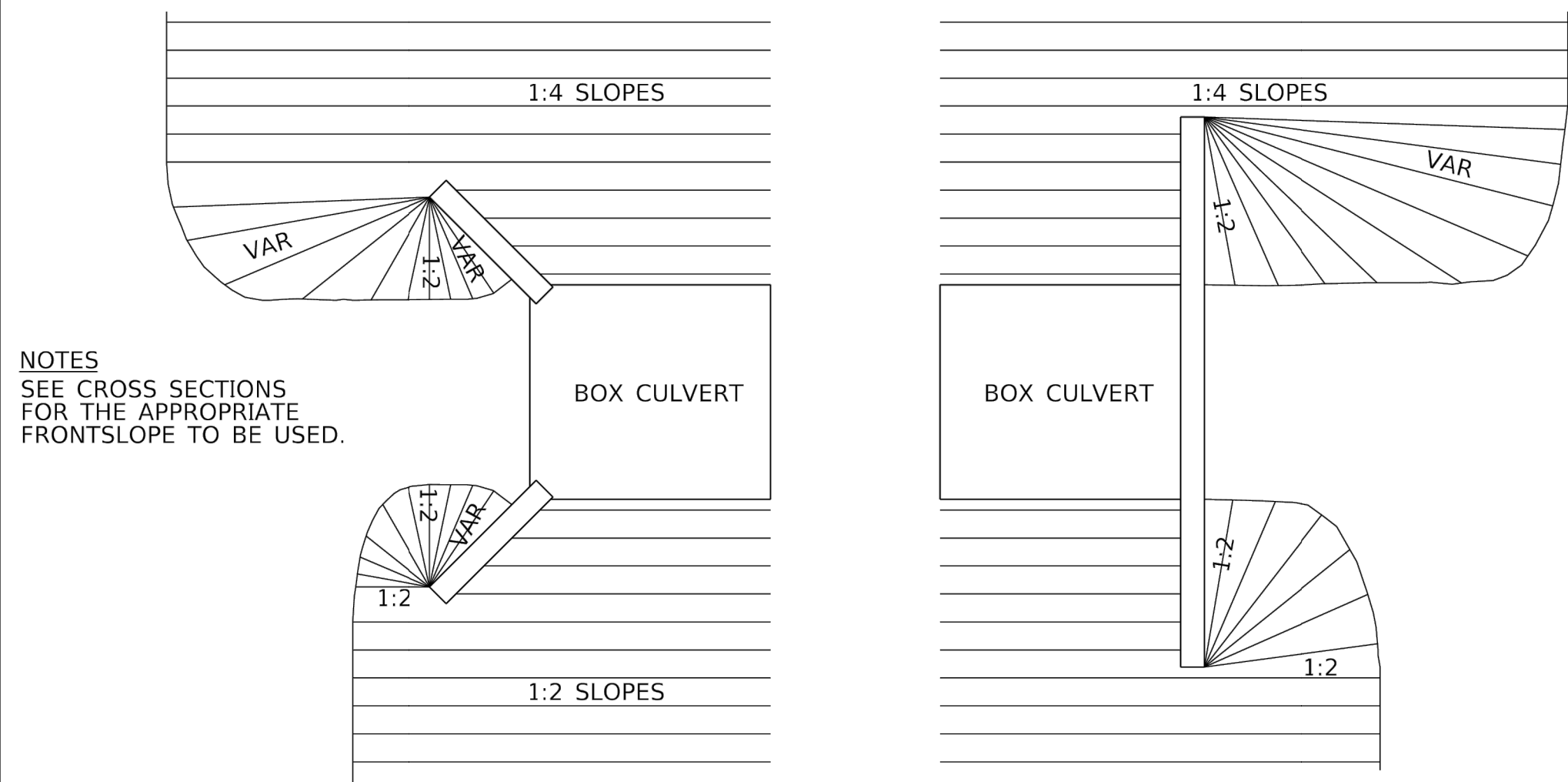
STANDARD END SECTION:
542001 (PIPE), 542011 (ELLIPTICAL)
DISTRICT STANDARD 10.1 (BOX).

FILE NAME: C:\projects\0224rds\025standards.cel
PLOT DATE: 11/1/2022

REVISED - 7-13-16	REGION 2 / DISTRICT 2 STANDARD					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED - 11-12-14										
REVISED - 2-10-14										
REVISED -										
SCALE: 1.5455 ' / in. SHEET OF SHEETS STA. TO STA.								CONTRACT NO.		
							ILLINOIS	FED. AID	PROJECT	

RIPRAP AT END SECTIONS 19.4

GRADING AROUND WINGWALLS



NOTES
SEE CROSS SECTIONS
FOR THE APPROPRIATE
FRONTSLOPE TO BE USED.

FILE NAME: C:\projects\0224rds\025standards.cel
PLOT DATE: 11/1/2022

REVISED - 5-27-09	REGION 2 / DISTRICT 2 STANDARD					F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
REVISED -										
REVISED -										
REVISED -										
REVISED -										
SCALE: 1.5455" = 1' SHEET OF SHEETS STA. TO STA.						CONTRACT NO.				
						ILLINOIS FED. AID PROJECT				

GRADING AROUND WINGWALLS 20.4

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JOB NUMBER:
22-1415

SHEET NUMBER:
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