

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19-00350-00-SP	IROQUOIS	44	1
FEDERAL AID PROJECT		ILLINOIS	CONTRACT NO. 87758	

DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED HIGHWAY SAFETY IMPROVEMENT PROJECT

VARIOUS ROUTES
SECTION 19-00350-00-SP
PROJECT NO. IP89(805)
IROQUOIS COUNTY
C-93-080-19

UTILITY CONTACTS:

UTILITY TYPE:

FIBER OPTIC
MEDIACOM
ATT: SCOTT ROBERTS
PHONE: (217) 512-0499

UTILITY TYPE:

TELEPHONE
FRONTIER COMMUNICATIONS
ATT: KALIN HINSHAW
PHONE: (815) 895-1515

UTILITY TYPE:

ELECTRIC /GAS
AMEREN CIPS (NORTH)
ATT: NATHAN HILL
PHONE: (618) 301-5327

UTILITY TYPE:

TELEPHONE
ATT/DISTRIBUTION
ATT: G11629 ATT.COM

UTILITY TYPE:

ELECTRIC
EASTERN ILLINOIS ELECTRIC COOP
ATT: BRAD SMITH
PHONE: (217) 379-3131x173

UTILITY TYPE:

RENEWABLE POWER
PILOT HILL WIND, LLC
ATT: JAKE AMES
PHONE: (309) 439-4552

UTILITY TYPE:

GAS PIPELINE
BUCKEYE PARTNERS
ATT: DAVE JONES
PHONE: (610) 904-4409

UTILITY TYPE:

COMMUNICATIONS
STAE OF ILLINOIS - CMS
ATT: STEVE CREASEY
PHONE: (217) 299-9312

UTILITY TYPE:

GAS PIPELINE
NICOR GAS
ATT: UTILITY CONSULTANT G03W
PHONE: (630) 388-2362

UTILITY TYPE:

VARIOUS
LAKE IROQUOIS ASSOC
ATT: JOHN MCBRIDE
PHONE: (217) 267-2331

UTILITY TYPE:

GAS PIPELINE
MIDWESTERN GAS TRANSMISSION
ATT: RALPH ALLAS
PHONE: (815) 521-1420x202

UTILITY TYPE:

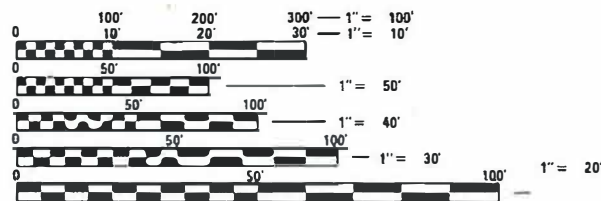
VARIOUS
VILLAGE OF LODA
ATT: JOHN MCBRIDE
PHONE: (217) 267-2331

UTILITY TYPE:

TELEVISION /INTERNET
COMCAST
ATT: MARTHA GIERAS
PHONE: (224) 229-5862

UTILITY TYPE:

VARIOUS
VILLAGE OF MILFORD
ATT: JUSTIN RUTLEDGE
PHONE: (815) 471-4438

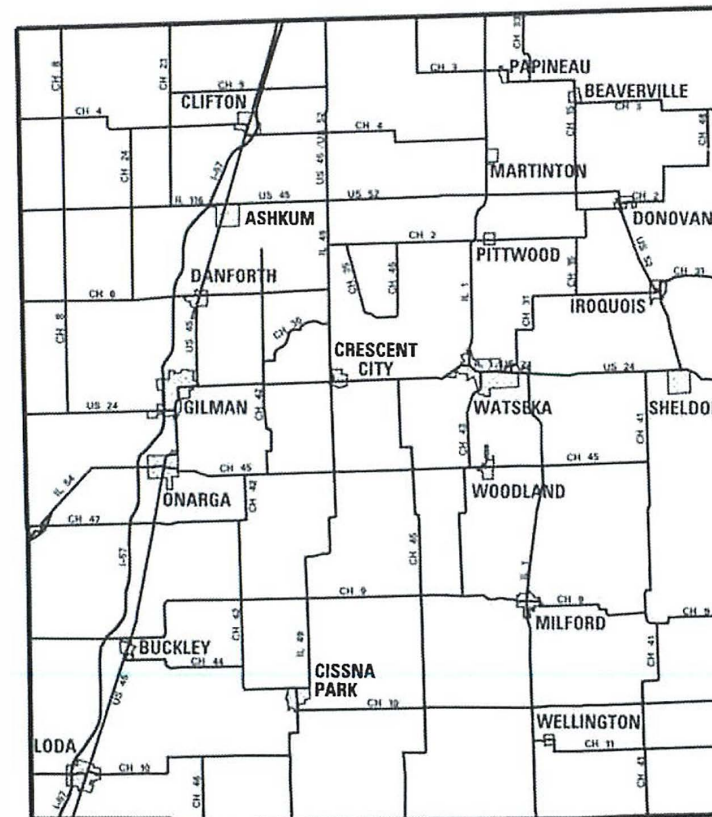


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

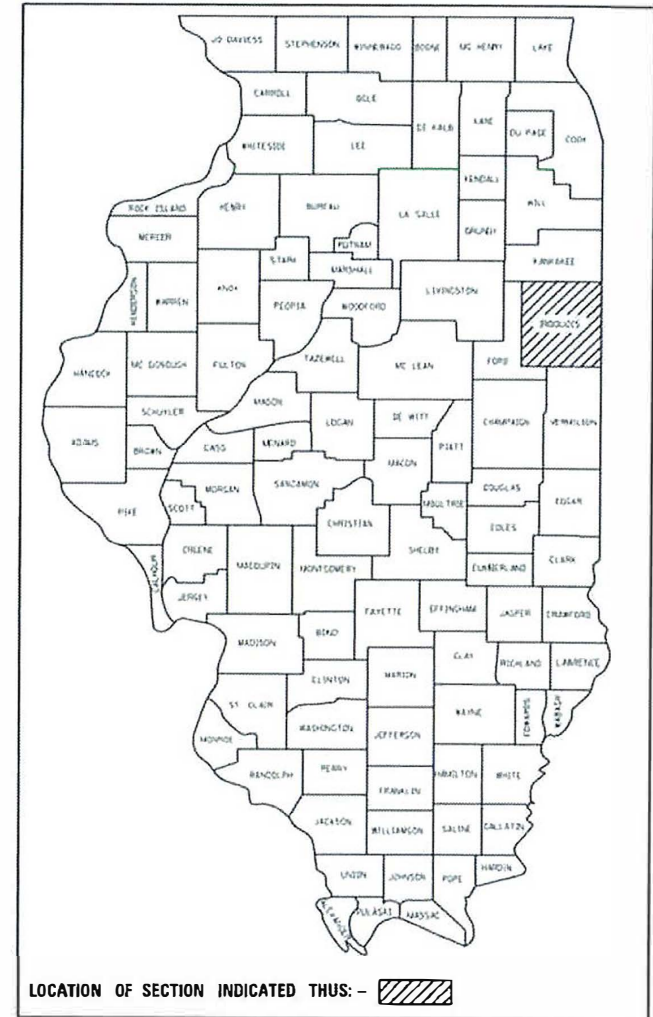


CONTRACT NO. 87758



IROQUOIS COUNTY
COUNTY WIDE
(NOT TO SCALE)

SEE SHEET 8 FOR WORKSITE LOCATIONS



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED: March 27, 2020

[Signature]
IROQUOIS COUNTY ENGINEER

PASSED: April 7, 2020

[Signature]
DISTRICT THREE ENGINEER OF LOCAL ROADS AND STREETS

RELEASED FOR BID BASED ON LIMITED REVIEW: April 7, 2020

[Signature]
REGION TWO ENGINEER



[Signature] 3/27/20

ILLINOIS PROFESSIONAL NO. 56816
(Expires 11/30/21)

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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GENERAL NOTES

- THIS PROJECT IS LOCATED ON VARIOUS ROUTES IN IROQUOIS COUNTY. THE WORK INCLUDED IN THE SECTION CONSISTS OF VARIOUS TYPES OF GUARDRAIL REMOVAL, REPLACEMENT, AND ALL OTHER WORK NECESSARY TO COMPLETE THE PROJECT.
- NO MATERIAL SHALL BE LEFT ON OR NEAR THE ROADWAY DURING NON-WORKING HOURS.
- ANY NECESSARY TRAFFIC CONTROL WILL BE PROVIDED BY THE CONTRACTOR. APPROPRIATE STANDARDS ARE INCLUDED IN THE PLANS AND CONTRACT DOCUMENTS.
- ILLINOIS STATE LAW REQUIRES 48 HOUR NOTICE TO BE GIVEN TO UTILITIES BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.I.L.I.E. (PHONE 800-892-0123) OR FOR NON-MEMBERS THE UTILITY COMPANY DIRECTLY.
- WHEN NO WORK IS BEING PERFORMED, THE FLAGGERS WILL NOT BE REQUIRED. IF THE FLAGGERS ARE NOT PRESENT, THE FLAGGERS SIGNS SHALL BE REMOVED OR COVERED.
- ARTICLE 701.20 OF THE STANDARD SPECIFICATIONS DISCUSSES AN ADJUSTED UNIT PRICE. NO ADJUSTMENTS SHALL BE MADE TO THE TRAFFIC CONTROL AND PROTECTION PAY ITEMS FOR THIS CONTRACT.
- THE CONTRACTOR IS ADVISED THAT THE GUARDRAIL AND TERMINAL PAY ITEMS INCLUDED IN THE PLANS WILL BE USED TO REPLACE STEEL PLATE BEAM GUARDRAIL AND TRAFFIC BARRIER TERMINALS FOR EITHER CURRENT MIDWEST STYLES OR STEEL PLATE BEAM GUARDRAIL AND TRAFFIC BARRIER TERMINALS INSTALLED PRIOR TO JANUARY 1, 2007. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR UTILIZING THE CURRENT MIDWEST STANDARDS.
- SEEDING WILL NOT BE PERMITTED AT ANY TIME WHEN THE GROUND IS FROZEN, WET, OR IN AN UNTILLABLE CONDITION. LOCATIONS TO BE SEEDED WILL BE DETERMINED BY THE ENGINEER. THE TOTAL DISTURBANCE AREA IS NOT CONTIGUOUS AND IS DISTRIBUTED THROUGHOUT THE INDIVIDUAL LOCATIONS AS SHOWN IN THE PLANS.
- THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEEDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF FURNISHED EXCAVATION.
- ALL EXCAVATED MATERIAL, WHICH INCLUDES DIGGING OR GRADING OF ANY SOIL OR FILL MATERIAL, WITH THE EXCEPTION OF AGGREGATE FILLS, MUST BE INCORPORATED WITHIN THE RIGHT OF WAY DUE TO ENVIRONMENTAL DOCUMENTATION REQUIREMENTS.
- ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE REVISION NUMBER SHOWN IN THE LIST OF ILLINOIS DOT HIGHWAY STANDARDS OR THE COPY INCLUDED IN THESE PLANS.
- REMOVED GUARDRAIL THAT IS NOT REPLACED ON THE SAME DAY MUST BE DELINEATED WITH LIGHTED BARRICADES. NO LOCATIONS SHALL BE LEFT WITHOUT EITHER LIGHTED BARRICADES OR RESTORED GUARDRAIL AT ANY TIME.
- FURNISHED EXCAVATION, AS SHOWN, IS FOR CONSTRUCTION THE PROPOSED SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS AND FOR SHOULDER WIDENING ALONG STEEL PLATE BEAM GUARDRAIL AS NEEDED. SHOULDER WIDENING AT TYPE 1 (SPECIAL) TERMINALS SHALL BE AS SHOWN ON STANDARD 630301. SHOULDER WIDENING AT STEEL PLATE BEAM GUARDRAIL TYPE A, SIX FOOT POSTS WILL BE TWO FEET BEHIND THE POST AS SHOWN ON STANDARD 630001. SHOULDER WIDENING AT STEEL PLATE BEAM GUARDRAIL TYPE A, NINE FOOT POSTS WILL BE TO THE FACE OF THE POST AS SHOWN ON STANDARD 630001. QUANTITIES SHOWN ARE APPROXIMATE.
- EROSION CONTROL BLANKET SHALL BE PLACED ON ALL AREAS WITH SLOPES 1:2 OR STEEPER.
- SEEDING OPERATION SHALL BE COMPLETED WITHIN 3 DAYS OF COMPLETING GUARDRAIL WORK.
- ALL STEEL PLATE BEAM GUARDRAIL RAIL ELEMENTS, POSTS AND HARDWARE THAT ARE NOT REINCORPORATED INTO THE PROJECT SHALL BE SALVAGED AND DELIVERED TO THE IROQUOIS COUNTY HIGHWAY DEPARTMENT.
- CONTRACTOR SHALL MAKE SURE ALL DRUMS AND BARRICADES ARE IN PLACE WHERE GUARDRAIL POSTS ARE REMOVED IN ACCORDANCE WITH ARTICLE 701 OF THE STANDARD SPECIFICATIONS.
- FILLING OF EXISTING HOLES FROM EXISTING GUARDRAIL REMOVAL SHALL BE INCLUDED IN THE COST OF GUARDRAIL REMOVAL IN ACCORDANCE WITH ARTICLE 632 OF THE STANDARD SPECIFICATIONS.

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

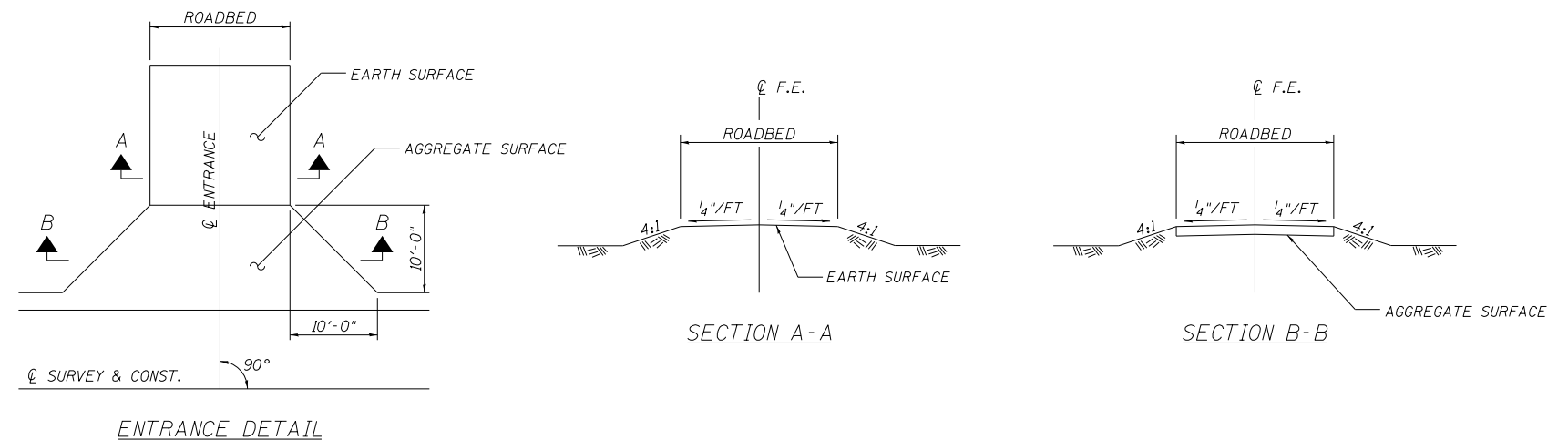
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
542401-03	METAL FLARED END SECTION FOR PIPE CULVERTS
630001-12	STEEL PLATE BEAM GUARDRAIL
630106-02	LONG-SPAN GUARDRAIL OVER CULVERT
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631031-16	TRAFFIC BARRIER TERMINAL, TYPE 6
631032-09	TRAFFIC BARRIER TERMINAL, TYPE 6A
635001-02	DELINEATORS
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 M) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24' (600 MM) FROM PAVEMENT EDGE
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701901-08	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR 26-3	STEEL PLATE BEAM GUARDRAIL 29" (731 MM) HEIGHT
BLR 27-1	TRAFFIC BARRIER TERMINAL, TYPE 5A

APPLICATION RATES USED IN QUANTITY CALCULATIONS

GRANULAR MATERIALS _____ 2.05 TONS/CU YD
 TEMPORARY EROSION CONTROL SEEDING _____ 100 LBS/ACRE

COMMITMENTS

NONE AT THIS TIME



JOB = 2537.1	DESIGNED - CGF	REVISED -
FILE NAME = 2537.1-sht-gen.dgn	DRAWN - SJS	REVISED -
PLOT SCALE = 100.0000 ' / in.	CHECKED - NAK	REVISED -
PLOT DATE = 4/1/2020	DATE - 2/20/2019	REVISED -

**IROQUOIS COUNTY
 GUARDRAIL IMPROVEMENTS**

**GENERAL NOTES, STANDARDS
 AND ENTRANCE DETAILS**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19-00350-00-SP	IROQUOIS	44	2
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT			CONTRACT NO. 87758	

SUMMARY OF QUANTITIES

CONSTRUCTION CODE
HSIP FUNDS
90% FEDERAL
10% LOCAL
ROADWAY
0021
RURAL

CODE NO	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
Δ 20400800	FURNISHED EXCAVATION	CU YD	3,700	3,700
Δ 21400100	GRADING AND SHAPING DITCHES	FOOT	962	962
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	1,217	1,217
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	264	264
28000305	TEMPORARY DITCH CHECKS	FOOT	104	104
28000400	PERIMETER EROSION BARRIER	FOOT	6,712	6,712
28000500	INLET AND PIPE PROTECTION	EACH	25	25
Δ 40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	134	134
Δ 48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	222	222
Δ 50105220	PIPE CULVERT REMOVAL	FOOT	206	206
50900200	STEEL RAILING, TYPE 2399	FOOT	500	500
Δ 542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	580	580
Δ 542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	164	164
Δ 542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	270	270
Δ 542D0235	PIPE CULVERTS, CLASS D, TYPE 1 30"	FOOT	158	158
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	2,075.0	2,075.0

* SEE SPECIAL PROVISIONS

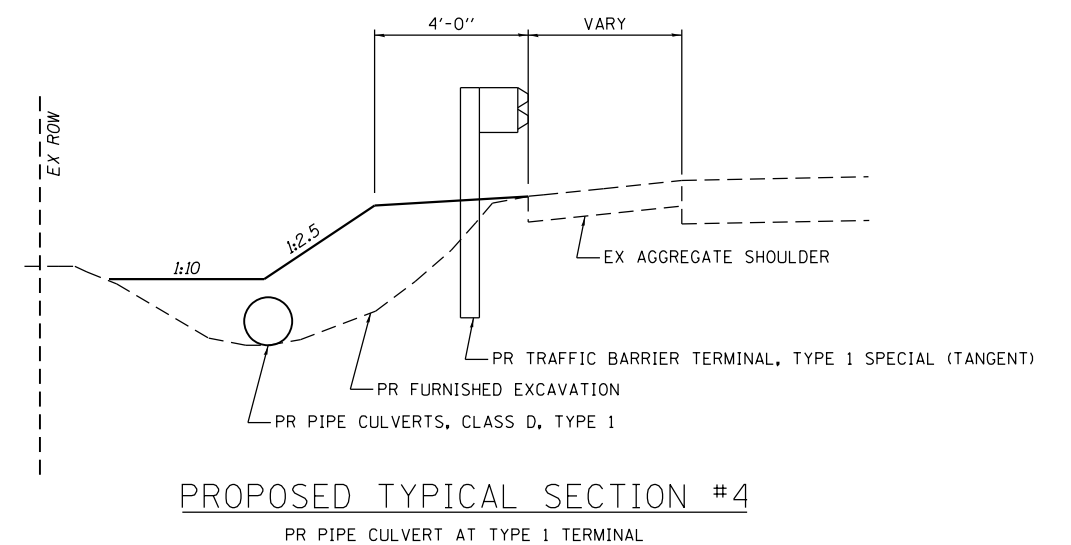
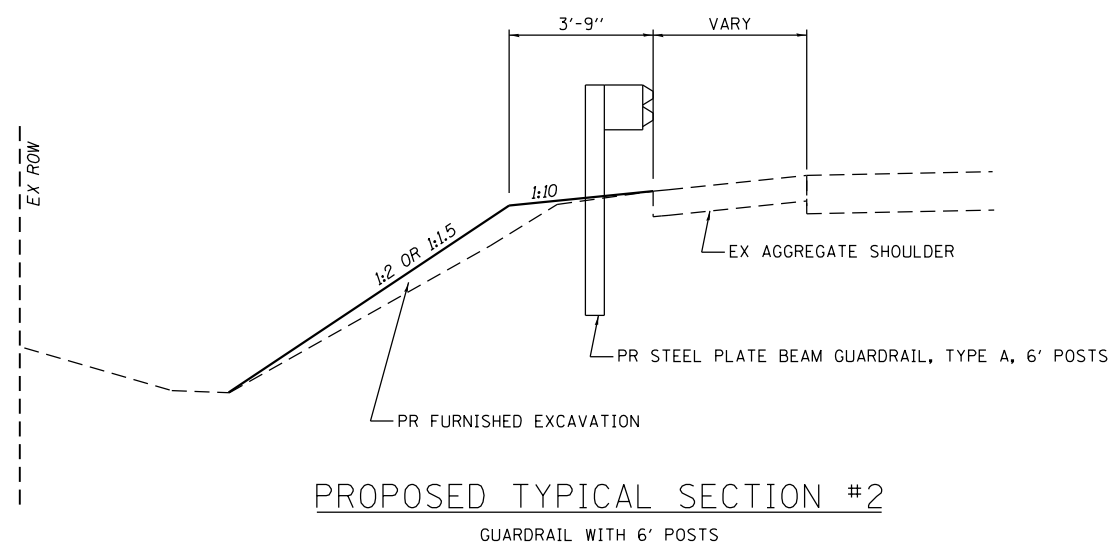
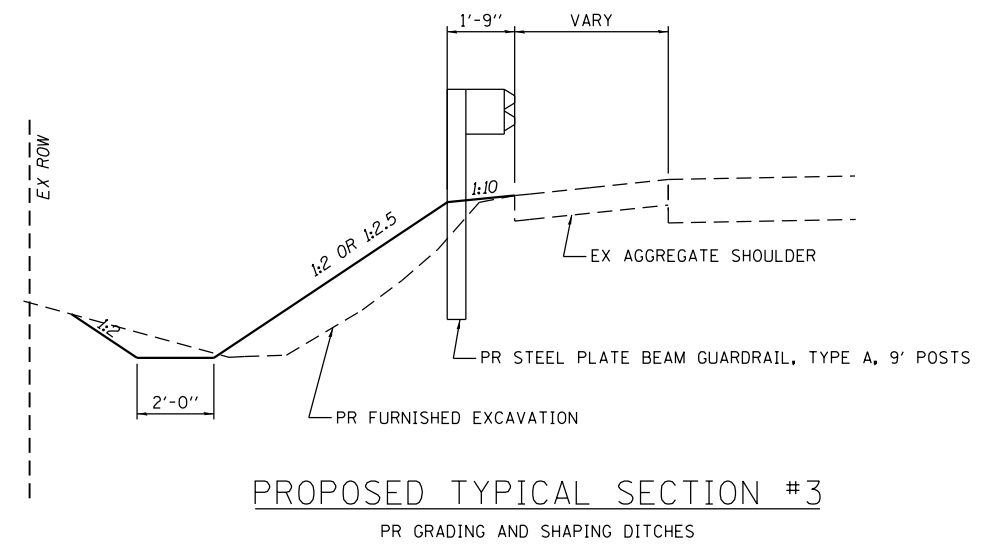
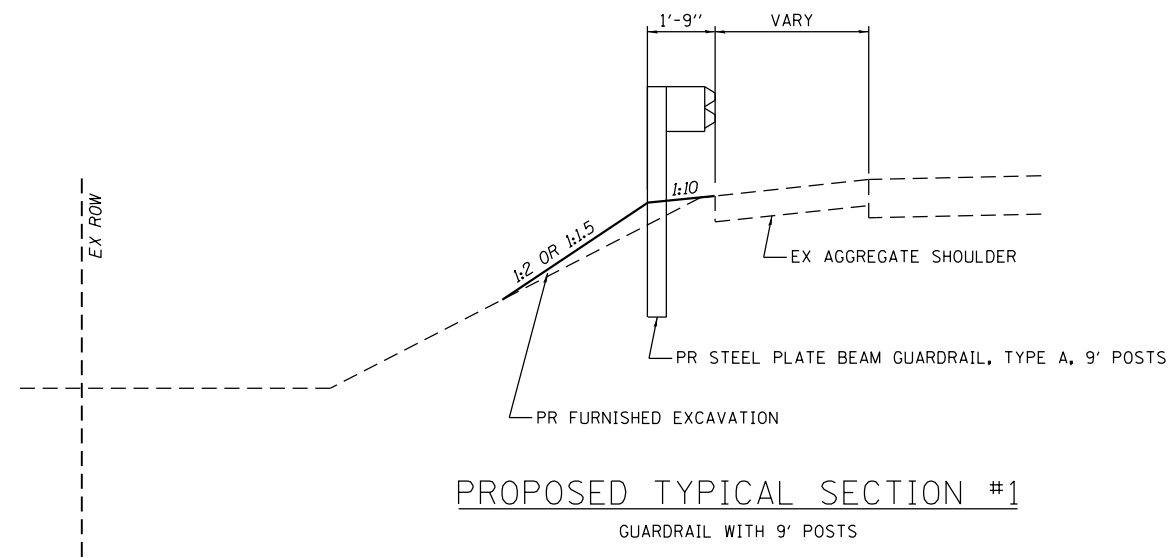
SUMMARY OF QUANTITIES

CONSTRUCTION CODE
HSIP FUNDS
90% FEDERAL
10% LOCAL
ROADWAY
0021
RURAL

CODE NO	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	8,250.0	8,250.0
63000007	STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS	FOOT	100.0	100.0
63000009	STEEL PLATE BEAM GUARDRAIL, TYPE B, 9 FOOT POSTS	FOOT	537.5	537.5
63000350	LONG-SPAN GUARDRAIL OVER CULVERT, 12 FT 6 IN SPAN	FOOT	375.0	375.0
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	5	5
63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	8	8
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	20	20
63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4	4
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	82	82
63200310	GUARDRAIL REMOVAL	FOOT	15,725.0	15,725.0
67100100	MOBILIZATION	L SUM	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	82	82
78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	300	300
78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	8	8
78200020	CURB REFLECTORS	EACH	104	104

* SEE SPECIAL PROVISIONS

Δ SPECIALTY ITEMS



GUARDRAIL SCHEDULE

Location Number	Quadrant (NE, SE, NW, SW, LEFT, RIGHT)	SPBGR TY A 6' Posts	SPBGR TY A 9' Posts	SPBGR TY B 6' Posts	SPBGR TY B 9' Posts	STEEL PLATE BEAM GUARDRAIL, TYPE A (SPECIAL)	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	LONG-SPAN GUARDRAIL OVER CULVERT, 12 FT 6 IN SPAN	STEEL RAILING, TYPE 2399	STEEL RAILING REMOVAL	TBT TY 1 (SPECIAL) TANGENT (EACH)	TBT TYPE 2	TBT TYPE 5A	TBT TYPE 6	TBT TYPE 6A	GUARDRAIL REMOVAL	GUARDRAIL REMOVAL SPECIAL	GUARDRAIL REFLECTORS, TYPE A	TERMINAL MARKER - DIRECT APPLIED	CURB REFLECTORS	BARRIER WALL REFLECTORS, TYPE C
											50'										
		FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	FOOT	FOOT	EACH	EACH	EACH	EACH
4	LEFT		12.5													12.5					
5	LEFT		25.0		50.0			37.5			2					325.0		4	2		
	RIGHT		25.0		50.0			37.5			2					325.0		4	2		
23	NW		200.0								1	1				262.5		4	1		
	SW		125.0								1	1				187.5		4	1		
	SE		187.5								1	1				262.5		4	1		
24	LEFT	25.0		50.0		25.0				25	1					150.0		4	1	3	
	RIGHT	25.0		50.0		25.0				25	2					150.0		4	2	3	
26	NW		100.0													100.0		4			
	NE		100.0								1					137.5		4	1		
38	LEFT	50.0							250		2				2	150.0		8	2	25	
	RIGHT	37.5							250		2				2	150.0		8	2	25	
39	LEFT		37.5		50.0	50.0					2						50.0	4	2	6	
	RIGHT		37.5		50.0	50.0					2						50.0	4	2	6	
40	NW		37.5								1					75.0		4	1		
	SW		62.5								1					75.0		4	1		
	NE		150.0								1					200.0		4	1		
	SE		150.0								1					200.0		4	1		
46	NW		375.0								1	1				437.5		5	1		
	SW		375.0								1	1				437.5		5	1		
	NE		412.5								1	1				475.0		6	1		
	SE		412.5								1	1				475.0		6	1		
87	LEFT		287.5			75.0				75	2					387.5		5	2	8	
	RIGHT		200.0			75.0				75	2					300.0		4	2	8	
89	NW		75.0								2					175.0		4	2		
	SW		100.0								2					200.0		4	2		
	NE		175.0					37.5			2					312.5		4	2		
	SE		100.0					37.5			2					237.5		4	2		
90	NW		50.0								1					100.0		4	1	10	
	SW		150.0								1					200.0		4	1	10	
	NE		150.0								1					200.0		4	1		
	SE		50.0								1					100.0		4	1		
92	NW		37.5								1					87.5		4	1		
	SW		137.5								1					187.5		4	1		
	NE		137.5								1					187.5		4	1		
	SE		37.5								1					87.5		4	1		
93	NW	312.5									1	1				387.5		4	1		
	SW		375.0								1	1				425.0		4	1		
	NE		1462.5								3	1				1612.5		4	3		
	SE		1487.5								3	1				1687.5		20	3		
94	LEFT		12.5		50.0	25.0		37.5			1					175.0		4	1		
	RIGHT		100.0		50.0			37.5			2					287.5		4	2		
110	NW		12.5								1			1		100.0		4	1		1
	SW		25.0								1			1		100.0		4	1		1
	NE		25.0								1			1		100.0		4	1		
	SE		12.5								1			1		100.0		4	1		



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 PLOT SCALE = 2.0000' / in.
 PLOT DATE = 4/1/2020

DESIGNED - CGF
 DRAWN - SJS
 CHECKED - NAK
 DATE - 2/20/2019

REVISED -
 REVISED -
 REVISED -
 REVISED -

**IROQUOIS COUNTY
 GUARDRAIL IMPROVEMENTS**

SCHEDULES OF QUANTITIES

SCALE: SHEET NO. OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			44	6
19-00350-00-SP		IROQUOIS	CONTRACT NO. 87758	
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				

GUARDRAIL SCHEDULE

Location Number	Quadrant (NE, SE, NW, SW, LEFT, RIGHT)	SPBGR TY A 6' Posts	SPBGR TY A 9' Posts	SPBGR TY B 6' Posts	SPBGR TY B 9' Posts	STEEL PLATE BEAM GUARDRAIL, TYPE A (SPECIAL)	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	LONG-SPAN GUARDRAIL OVER CULVERT, 12 FT 6 IN SPAN	STEEL RAILING, TYPE 2399	STEEL RAILING REMOVAL	TBT TY 1 (SPECIAL) TANGENT (EACH)	TBT TYPE 2	TBT TYPE 5A	TBT TYPE 6	TBT TYPE 6A	GUARDRAIL REMOVAL	GUARDRAIL REMOVAL SPECIAL	GUARDRAIL REFLECTORS, TYPE A	TERMINAL MARKER - DIRECT APPLIED	CURB REFLECTORS	BARRIER WALL REFLECTORS, TYPE C
											50'										
		FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	FOOT	FOOT	EACH	EACH	EACH	EACH
111	NW		12.5								1			1		100.0		4	1		1
	SW		25.0								1			1		100.0		4	1		1
	NE		25.0								1			1		100.0		4	1		
	SE		12.5								1			1		87.5		4	1		
112	NW				12.5						1			1		100.0		4	1		1
	SW				12.5						1			1		100.0		4	1		1
	NE				12.5						1			1		100.0		4	1		
	SE				12.5						1			1		100.0		4	1		
113	NW				12.5						1			1		100.0		4	1		1
	SW		25.0		25.0						1			1		100.0		4	1		1
	NE		25.0		25.0						1			1		112.5		4	1		
	SE				12.5						1			1		100.0		4	1		
117	NW	512.5										1		1		550.0		8			
	SW	637.5									1			1		725.0		9	1		
	NE	237.5									1			1		325.0		4	1		
	SE	237.5									1			1		325.0		4	1		
118	LEFT						25.0	37.5			1					75.0		4	1		
	RIGHT		25.0		25.0			37.5			1					100.0		4	1		
119	LEFT		37.5		37.5		25.0	37.5			1	1				50.0		4	1		
	RIGHT		37.5		50.0			37.5			2					50.0		4	2		
TOTAL		2,075.0	8,250.0	100.0	537.5	300.0	75.0	375.0	500.0	200	82	5	8	20	4	15,725.0	100.0	300	82	104	8
ROUNDED TOTAL									500												

RETAINING WALL SCHEDULE

LOCATION	RETAINING WALL, SPECIAL		GEOTECHNICAL FABRIC	AGGREGATE WEDGE SHOULDER, TYPE B
	FOOT	FOOT	SQ YD	TON
STA 21+90.00 RT TO STA 30+60.00 RT	867		770.67	131.66
STA 29+47.00 LT TO STA 31+08.00 LT	164		145.78	24.90
STA 31+30.00 RT TO STA 35+02.00 RT	368		327.11	55.88
STA 31+89.00 LT TO STA 32+51.00 LT	63		56.00	9.57
TOTAL	1,462		1,299.6	222.01
ROUNDED TOTAL			1,300	222

ENTRANCE SCHEDULE

Location Number	LOCATION	TYPE	WIDTH	AGGREGATE SURFACE COURSE, TYPE B
			FOOT	TON
24	STA 8+56.00 RT	FE	40	19
87	STA 8+01.00 RT	FE	40	33
92	STA 7+45.13 RT	FE	43	20
111	STA 11+62.00 RT	FE	43	31
112	STA 8+42.00 LT	FE	40	31
TOTAL				134



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 FILE NAME = 2537.1-sht-schedules.dgn
 PLOT SCALE = 2.0000' / in.
 PLOT DATE = 4/1/2020

DESIGNED - CGF
 DRAWN - SJS
 CHECKED - NAK
 DATE - 2/20/2019

REVISED -
 REVISED -
 REVISED -
 REVISED -

**IROQUOIS COUNTY
 GUARDRAIL IMPROVEMENTS**

SCHEDULES OF QUANTITIES

SCALE: SHEET NO. OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19-00350-00-SP	IROQUOIS	44	7
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
		CONTRACT NO. 87758		

EROSION CONTROL SCHEDULE

Location Number	Quadrant (NE, SE, NW, SW, LEFT, RIGHT)	PERIMETER EROSION BARRIER	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	INLET AND PIPE PROTECION	GRADING AND SHAPING DITCHES	HEAVY DUTY EROSION CONTROL BLANKET
		FOOT	POUND	FOOT	EACH	FOOT	SQ YD
5	LEFT		6.0	16		169	
	RIGHT	143	5.1	8		73	
23	NW		5.1				
	SW		5.3		1		117
	SE		6.5	8		74	
24	LEFT		4.9				
	RIGHT		3.6		1		
26	NW		1.1				
	NE		1.6				
38	LEFT	113	6.8				
	RIGHT	150	6.6				
39	LEFT		6.5		2		
	RIGHT		6.3	8	2	47	
40	NE	241	3.2				
	SE	81	1.7				
46	NW	484	9.5				50
	SW	476	5.4				141
	NE	508	4.1				39
	SE	520	10.9				298
87	LEFT		7.5	8		74	86
	RIGHT		8.0	8	2	61	102
89	NW	225	5.4				
	SW		6.8				
	NE	220	8.7				
	SE	72	8.2				
90	NW		2.9		1		
	SW		4.6		1		
	NE		5.6	8		73	
	SE		3.5				
92	NW		3.1	8		89	91
	SW		3.4		1		75
	NE		6.5	8	1	140	161
	SE		2.7				
93	NW	85	1.9				
	SW	464	6.8				
	NE	810	6.8				
	SE	404	5.5				
94	LEFT	44	3.2				
	RIGHT	121	5.8	8		71	
110	NW	123	3.2				
	SW	135	3.3				
	NE	140	3.1				
	SE	126	3.3				
111	NW	122	2.8				
	SW	131	3.4				
	NE	135	1.6				
	SE	93	2.1	8	1	31	

EROSION CONTROL SCHEDULE

Location Number	Quadrant (NE, SE, NW, SW, LEFT, RIGHT)	PERIMETER EROSION BARRIER	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	INLET AND PIPE PROTECION	GRADING AND SHAPING DITCHES	HEAVY DUTY EROSION CONTROL BLANKET
		FOOT	POUND	FOOT	EACH	FOOT	SQ YD
112	NW		2.6		1		
	SW		3.3		1		
	NE		3.5		8		57
	SE		3.2	8		60	
113	NW		3.3				
	SW		2.1				
	NE		3.7		1		
	SE		3.4		1		
117	SE	76	1.1				
	NE	76	1.0				
118	RIGHT	163	2.2				
119	LEFT	132	2.0				
	RIGHT	99	3.1				
TOTAL		6,712	264.4	104	25	962	1,217
ROUNDED TOTAL			264				

PIPE CULVERT SCHEDULE

Location Number	Quadrant (NE, SE, NW, SW, LEFT, RIGHT)	PIPE CULVERTS, CLASS D, TYPE 1 15"	PIPE CULVERTS, CLASS D, TYPE 1 18"	PIPE CULVERTS, CLASS D, TYPE 1 24"	PIPE CULVERTS, CLASS D, TYPE 1 30"	PIPE CULVERT REMOVAL
		FOOT	FOOT	FOOT	FOOT	FOOT
5	RIGHT					26
23	SW		62			
24	RIGHT			54		38
39	LEFT				158	
	RIGHT			116		
87	RIGHT	148				28
90	NW	56				
	SW	58				
92	SW			100		
	NE	68				
111	SE		102			92
112	NW	96				22
	SW	54				
113	NE	42				
	SE	58				
TOTAL		580	164	270	158	206



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 PLOT SCALE = 2.0000' / in.
 PLOT DATE = 4/1/2020

DESIGNED - CGF
 DRAWN - SJS
 CHECKED - NAK
 DATE - 2/20/2019

REVISED -
 REVISED -
 REVISED -
 REVISED -

**IROQUOIS COUNTY
 GUARDRAIL IMPROVEMENTS**

SCHEDULES OF QUANTITIES

SCALE: SHEET NO. OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19-00350-00-SP	IROQUOIS	44	8
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

CONTRACT NO. 87758

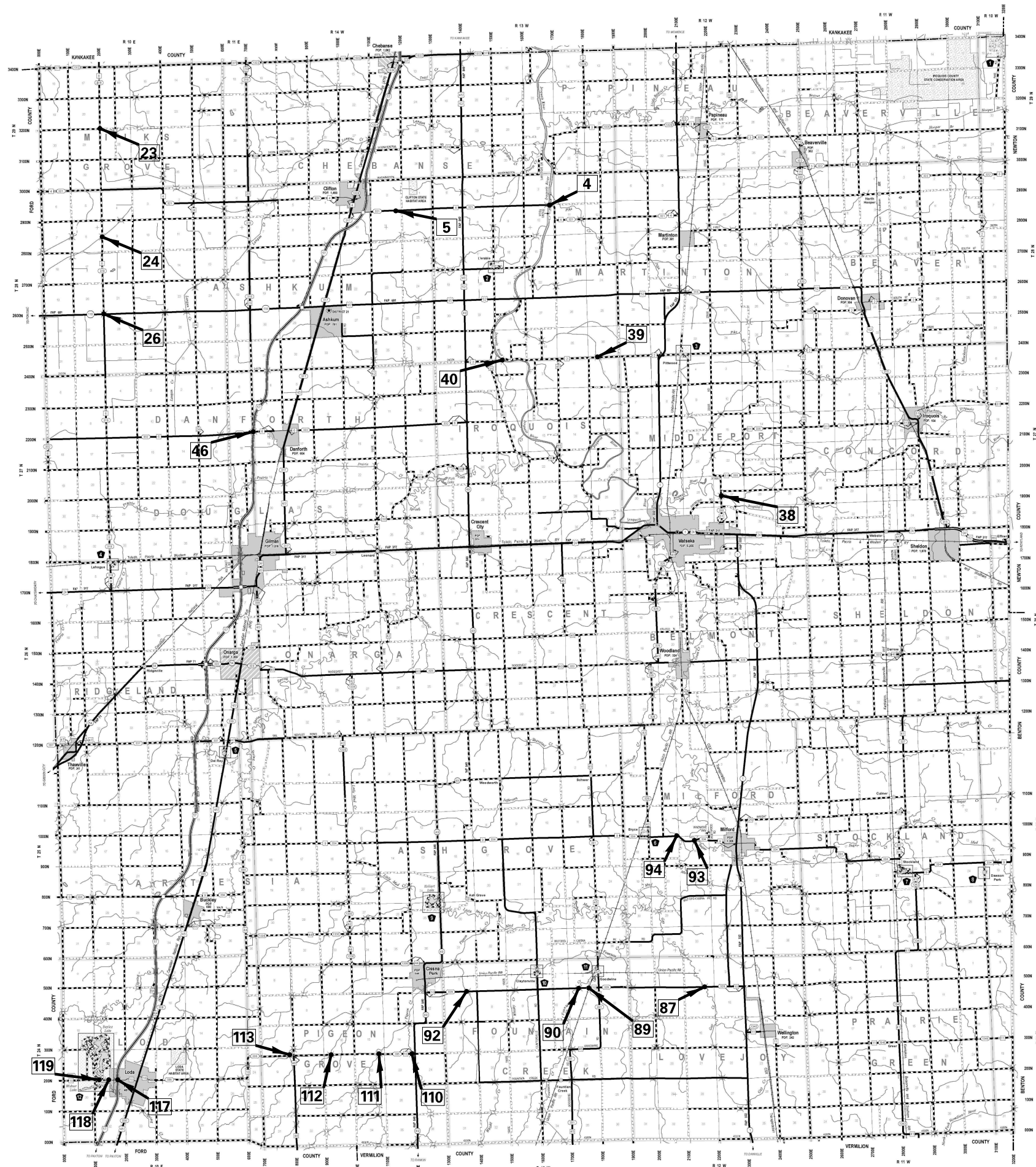
SEEDING SCHEDULE

Location Number	Quadrant (NE, SE, NW, SW, LEFT, RIGHT)	SEEDING, CLASS 2 (SPECIAL)
		ACRE
5	LEFT	0.060
	RIGHT	0.051
23	NW	0.051
	SW	0.053
	SE	0.065
24	LEFT	0.049
	RIGHT	0.036
26	NW	0.011
	NE	0.016
38	LEFT	0.068
	RIGHT	0.066
39	LEFT	0.065
	RIGHT	0.063
40	NE	0.032
	SE	0.017
46	NW	0.095
	SW	0.054
	NE	0.041
	SE	0.109
87	LEFT	0.075
	RIGHT	0.080
89	NW	0.054
	SE	0.068
	NE	0.087
	SE	0.082
90	NW	0.029
	SW	0.046
	NE	0.056
	SE	0.035
92	NW	0.031
	SW	0.034
	NE	0.065
	SE	0.027
93	NW	0.019
	SW	0.068
	NE	0.068
	SE	0.055
94	LEFT	0.032
	RIGHT	0.058
110	NW	0.032
	SW	0.033
	NE	0.031
	SE	0.033
111	NW	0.028
	SW	0.034
	NE	0.016
	SE	0.021

SEEDING SCHEDULE

Location Number	Quadrant (NE, SE, NW, SW, LEFT, RIGHT)	SEEDING, CLASS 2 (SPECIAL)
		ACRE
112	NW	0.026
	SW	0.033
	NE	0.035
	SE	0.032
113	NW	0.033
	SW	0.021
	NE	0.037
	SE	0.034
117	SE	0.011
	NE	0.010
118	RIGHT	0.022
119	LEFT	0.020
	RIGHT	0.031
TOTAL		2.64
ROUNDED TOTAL		2.75

EARTHWORK SCHEDULE



CEC Cummins
Engineering
Corporation
Civil and Structural Engineering

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FILE NAME = 2537.1 location map.dgn
PLOT SCALE = 10000.0000 ' / in.
PLOT DATE = 4/1/2020

DESIGNED - NAK
DRAWN - BEB
CHECKED - NAK
DATE - 2/20/2019

REVISED -
REVISED -
REVISED -
REVISED -

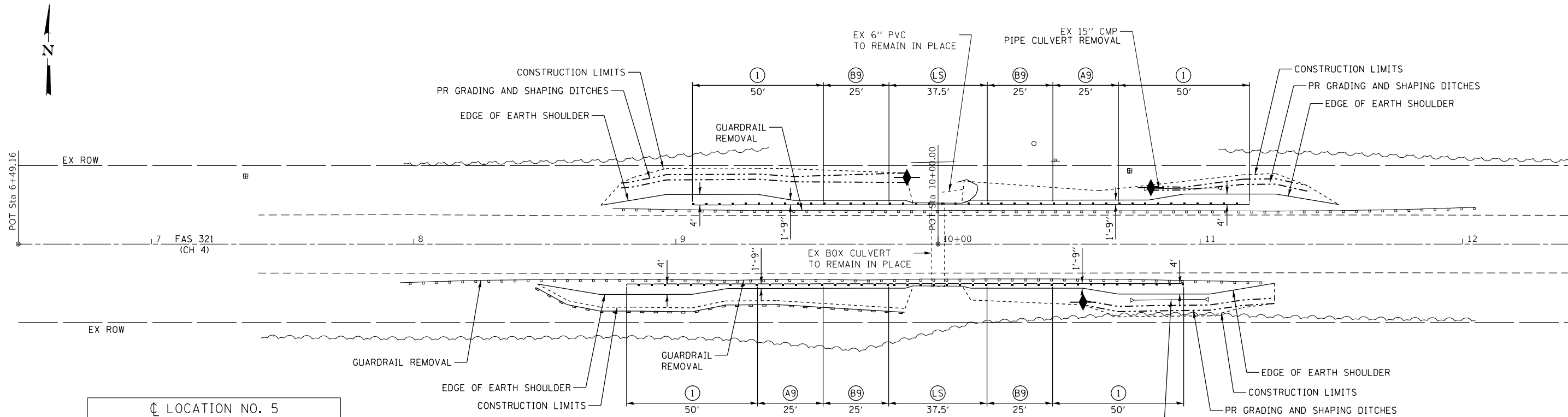
**IROQUOIS COUNTY
GUARDRAIL IMPROVEMENTS**

**LOCATION MAP
IROQUOIS COUNTY**

SCALE: SHEET NO. OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19-00350-00-SP	IROQUOIS	44	10
			CONTRACT NO. 87758	
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

SEC 2, T29N, R14W, 2ND PM



LOCATION NO. 5

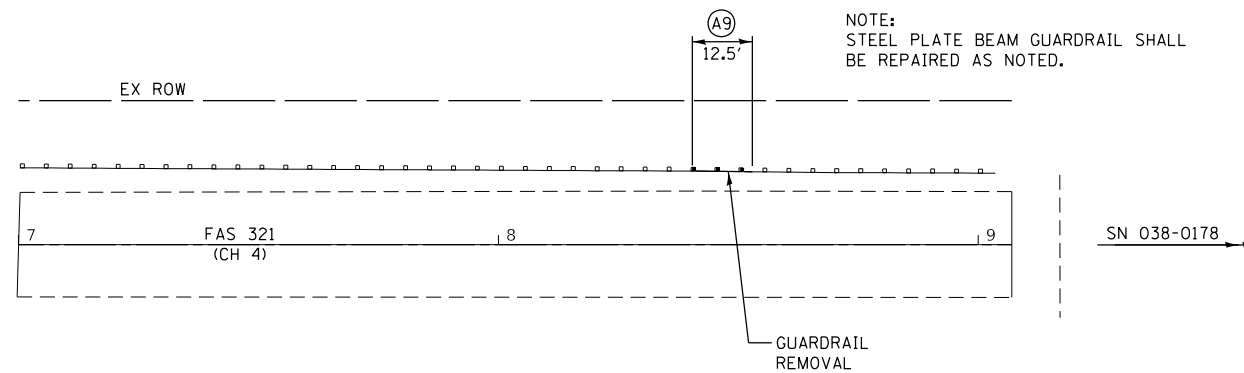
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+49.16	1552852.30	1100993.59
POT	10+00.00	1552862.77	1101344.27
POT	13+11.80	1552872.07	1101655.93

LOCATION NO. 5
MAJOR COLLECTOR
ADT 900 (2018)
DESIGN SPEED 50 MPH

LEGEND

- (1) TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- (A9) STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- (B9) STEEL PLATE BEAM GUARDRAIL, TYPE B, 9 FOOT POSTS
- (LS) LONG SPAN GUARDRAIL OVER CULVERT, 25 FOOT SPAN
- PERIMETER EROSION BARRIER
- ◆ TEMPORARY DITCH CHECKS

SEC 11, T29N, R14W, 2ND PM
SEC 3, T28N, R13W, 2ND PM



NOTE:
GUARDRAIL POSTS THAT NEED TO BE DRIVEN THROUGH EXISTING HOT-MIX ASPHALT SHOULDERS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF STEEL PLATE BEAM GUARDRAIL.

LOCATION NO. 4
MAJOR COLLECTOR
ADT 425 (2018)
DESIGN SPEED 50 MPH

SEC 10, T28N, R13W, 2ND PM

IROQUOIS COUNTY
GUARDRAIL IMPROVEMENTS

PLAN - LOCATIONS NO. 4 & 5

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			19-00350-00-SP	IROQUOIS
CONTRACT NO. 87758				
		ILLINOIS	FED. AID PROJECT	

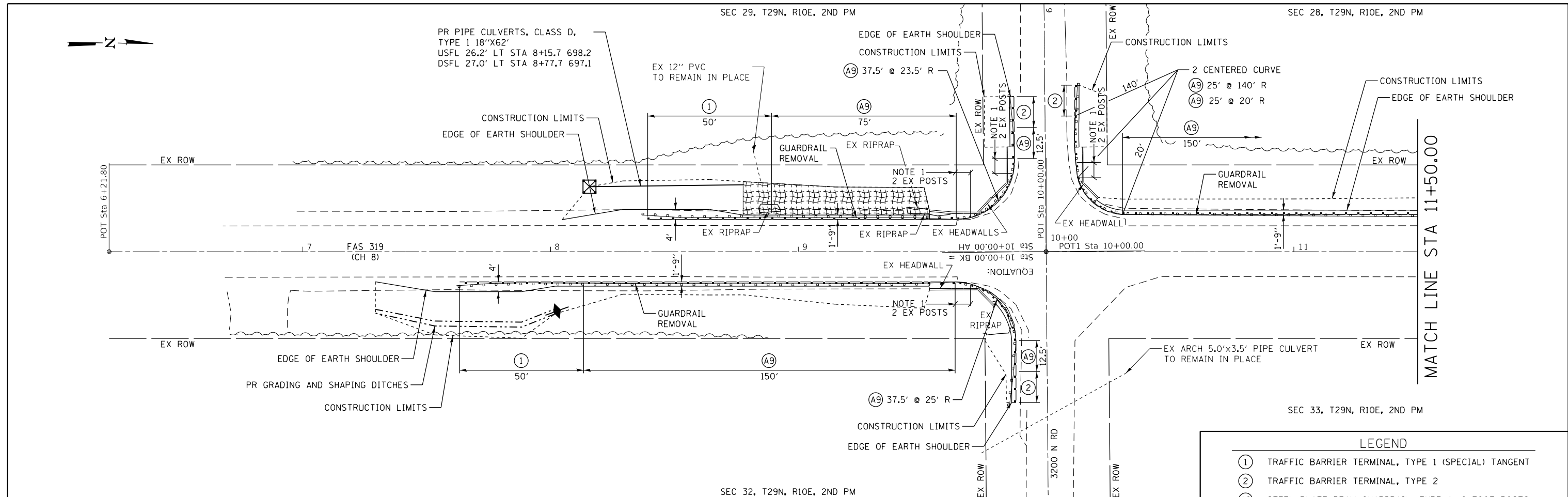
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PLOT DATE = 4/1/2020

DESIGNED - CGF
DRAWN - SJS
CHECKED - THF
DATE - 02/05/2020

REVISED -
REVISED -
REVISED -
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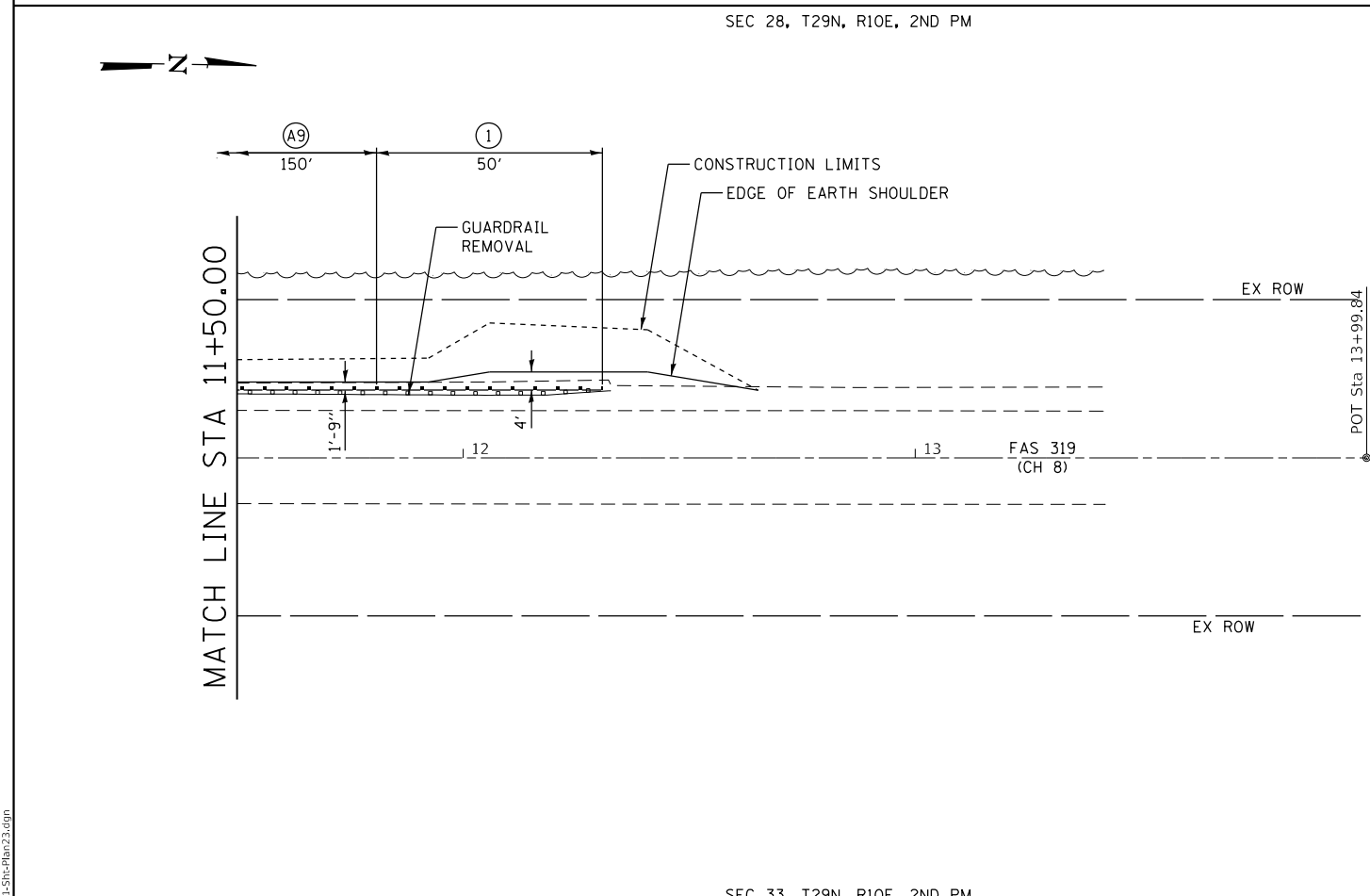


LEGEND

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ② TRAFFIC BARRIER TERMINAL, TYPE 2
- (A9) STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- [HEAVY DUTY EROSION CONTROL BLANKET]
- ⊠ INLET AND PIPE PROTECTION
- ◆ TEMPORARY DITCH CHECKS

NOTE 1
 EXISTING GUARDRAIL RAIL ELEMENTS AND BLOCKOUTS SHALL BE REMOVED. NEW 6' BLOCKOUTS AND STEEL PLATE BEAM GUARDRAIL ELEMENTS SHALL BE INSTALLED ON THE EXISTING POSTS.

CH 8 SHALL BE KEPT OPEN TO TRAFFIC DURING CONSTRUCTION. THE CONTRACTOR SHALL SCHEDULE HIS OPERATIONS TO REMOVE EXISTING RAILING AND INSTALL PROPOSED RAILING IN THE SAME DAY.



LOCATION NO. 23 SIDEROAD

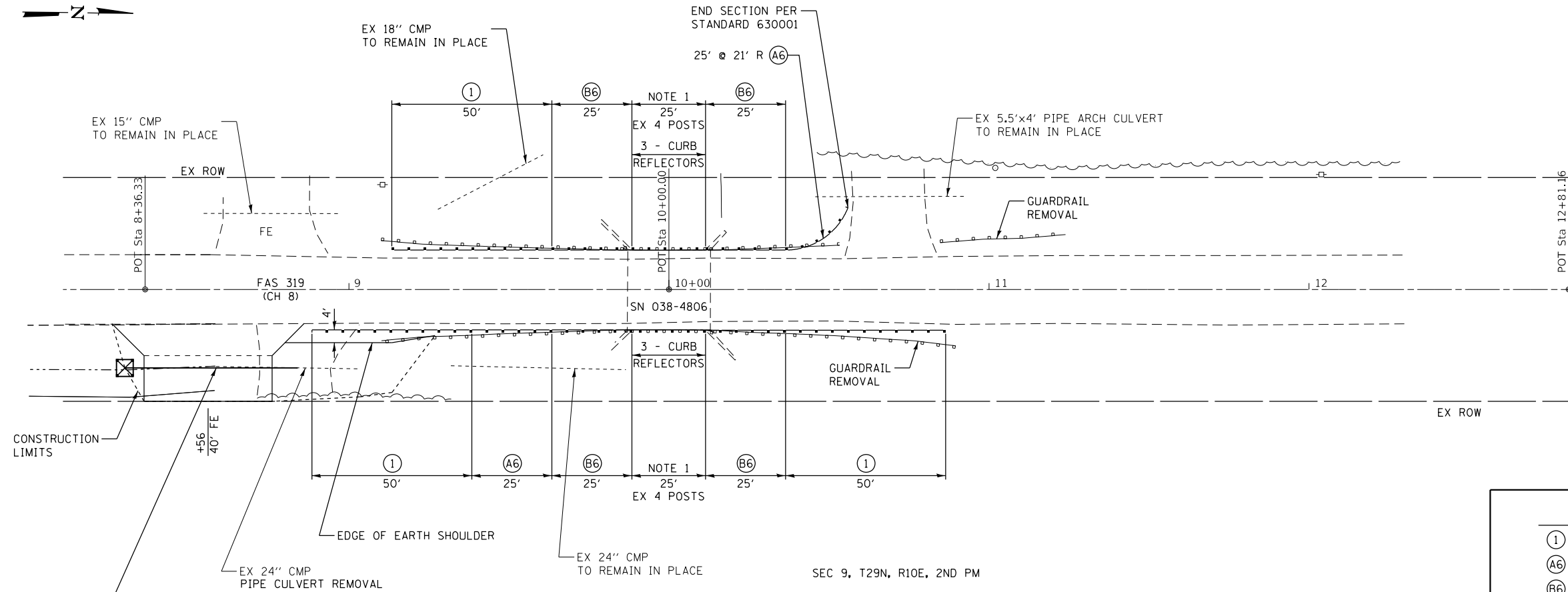
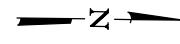
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+66.77	1567072.98	1050186.68
POT	10+00.00	1567078.97	1050419.83
POT	12+16.56	1567084.53	1050636.32

LOCATION NO. 23

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+21.80	1566700.82	1050426.33
POT	10+00.00	1567078.97	1050419.83
POT	13+99.84	1567478.75	1050412.96

LOCATION NO. 23 (CH 8)
 MAJOR COLLECTOR
 ADT 500 (2018)
 DESIGN SPEED 50 MPH

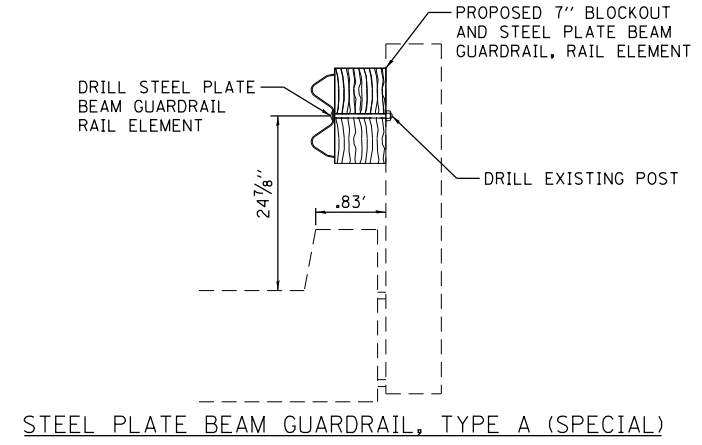
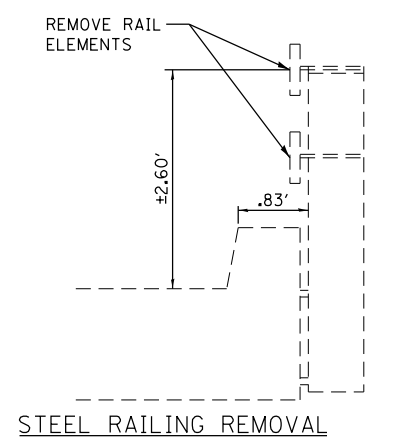
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LEGEND	
(1)	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
(A6)	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
(B6)	STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS
☒	INLET AND PIPE PROTECTION

PR PIPE CULVERTS, CLASS D,
TYPE 1 24"x54"
USFL 24.6' RT STA 8+36.3 654.0
DSFL 24.6' RT STA 8+84.0 653.8

LOCATION NO. 24			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	8+36.33	1548170.85	1050820.64
POT	10+00.00	1548334.51	1050818.38
POT	12+81.16	1548615.64	1050814.49



NOTE 1
EXISTING BRIDGE RAIL ELEMENTS AND BLOCKOUTS SHALL BE REMOVED. NEW 7\"/>

CH 8 SHALL BE KEPT OPEN TO TRAFFIC DURING CONSTRUCTION. THE CONTRACTOR SHALL SCHEDULE HIS OPERATIONS TO REMOVE EXISTING RAILING AND INSTALL PROPOSED RAIL IN THE SAME DAY.

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PLOT SCALE = 40,000' / 1in.
PLOT DATE = 4/1/2020

DESIGNED - CGF
DRAWN - SJS
CHECKED - THF
DATE - 02/10/2020

REVISED -
REVISED -
REVISED -
REVISED -

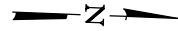
**IROQUOIS COUNTY
GUARDRAIL IMPROVEMENTS**

PLAN - LOCATION NO. 24

SCALE: SHEET OF SHEETS STA. TO STA.

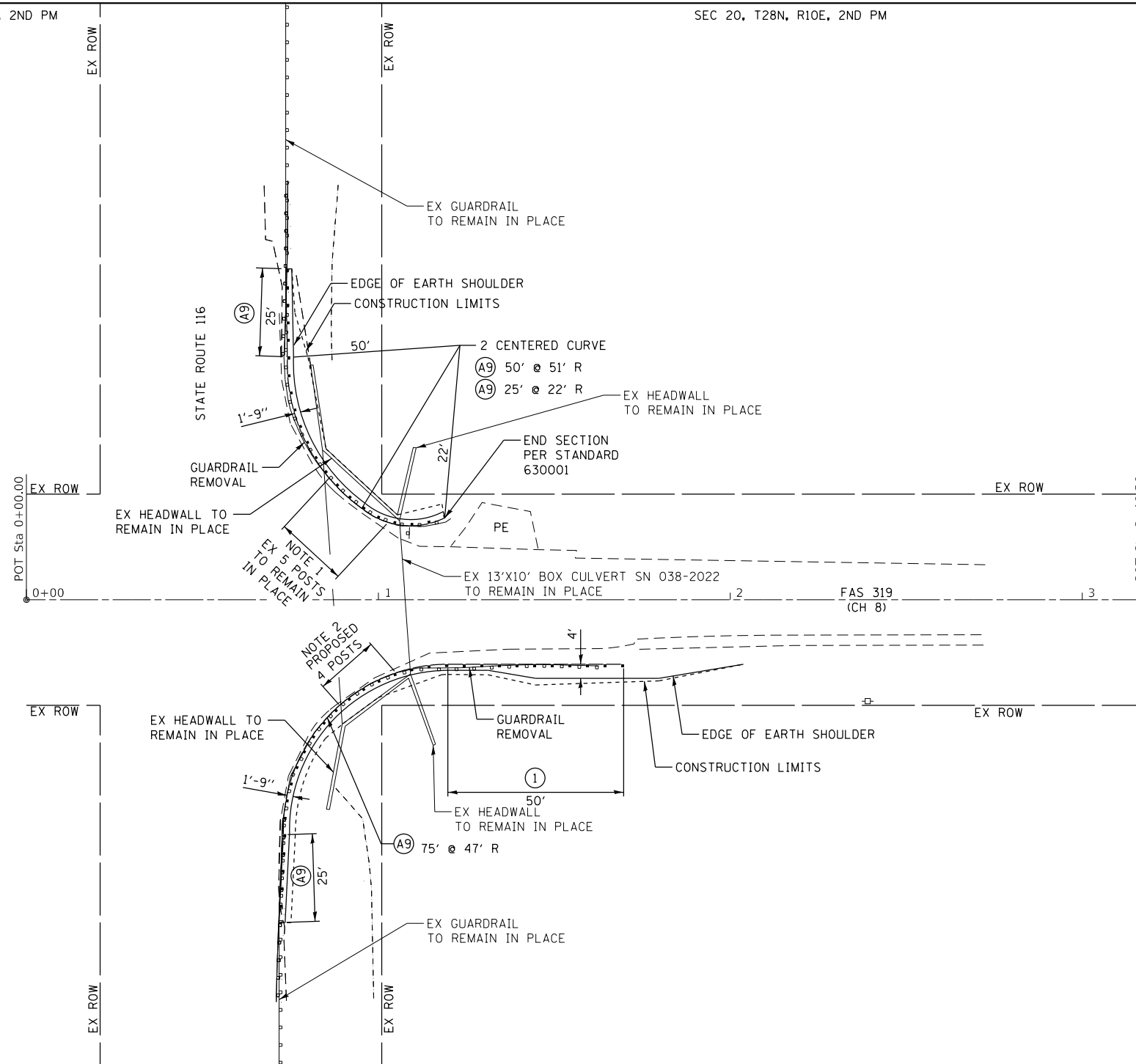
VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			19-00350-00-SP	IROQUOIS
			CONTRACT NO. 87758	
		ILLINOIS	FED. AID PROJECT	

LOCATION NO. 24
MAJOR COLLECTOR
ADT 400 (2018)
DESIGN SPEED 50 MPH



SEC 29, T28N, R10E, 2ND PM

SEC 20, T28N, R10E, 2ND PM



SEC 28, T28N, R10E, 2ND PM

SEC 21, T28N, R10E, 2ND PM

LEGEND	
①	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
Ⓐ9	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS

NOTE 1
EXISTING BRIDGE RAIL ELEMENTS AND BLOCKOUTS SHALL BE REMOVED. NEW 6" BLOCKOUTS AND STEEL PLATE BEAM GUARDRAIL ELEMENTS SHALL BE INSTALLED ON THE EXISTING POSTS.

CH 8 SHALL BE KEPT OPEN TO TRAFFIC DURING CONSTRUCTION. THE CONTRACTOR SHALL SCHEDULE HIS OPERATIONS TO REMOVE EXISTING RAILING AND INSTALL PROPOSED RAIL IN THE SAME DAY.

LOCATION NO. 26			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	0+00.00	1534972.79	1051108.66
POT	3+18.56	1535291.12	1051096.80

LOCATION NO. 26
MAJOR COLLECTOR
ADT 350 (2018)
DESIGN SPEED 40 MPH

MODEL: Default
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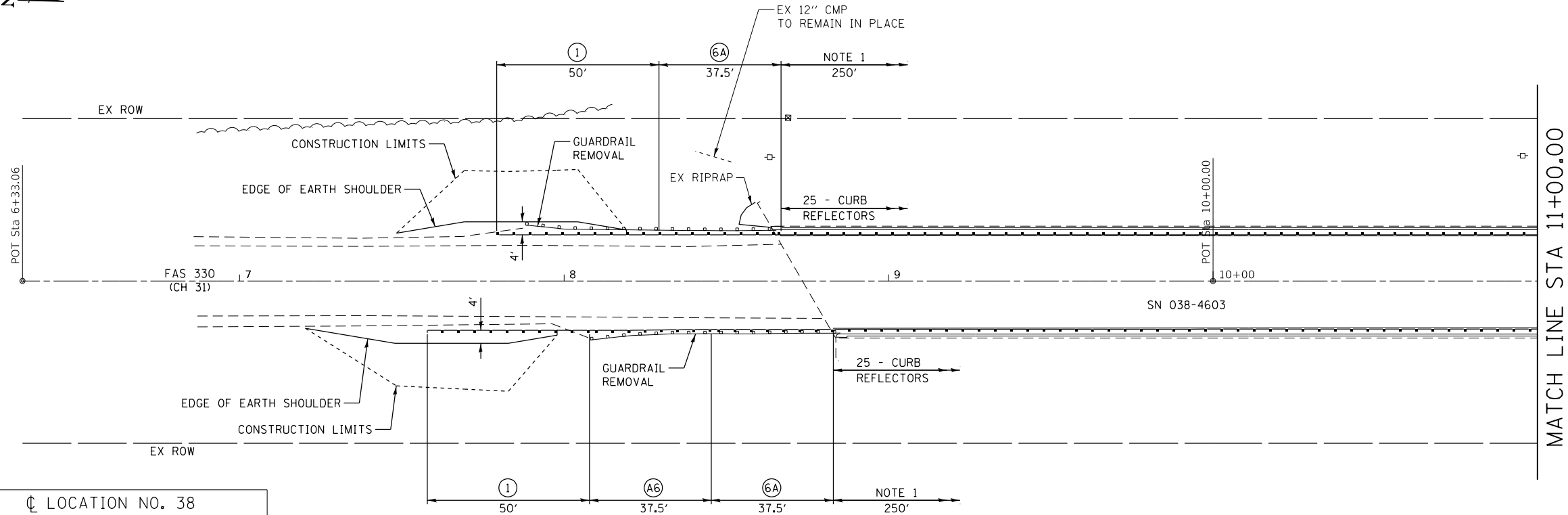
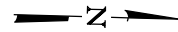
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PLOT DATE = 4/1/2020	DATE - 02/11/2020	REVISED -

**IROQUOIS COUNTY
GUARDRAIL IMPROVEMENTS**

PLAN - LOCATION NO. 26

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19-00350-00-SP	IROQUOIS	44	14
CONTRACT NO. 87758				
ILLINOIS FED. AID PROJECT				



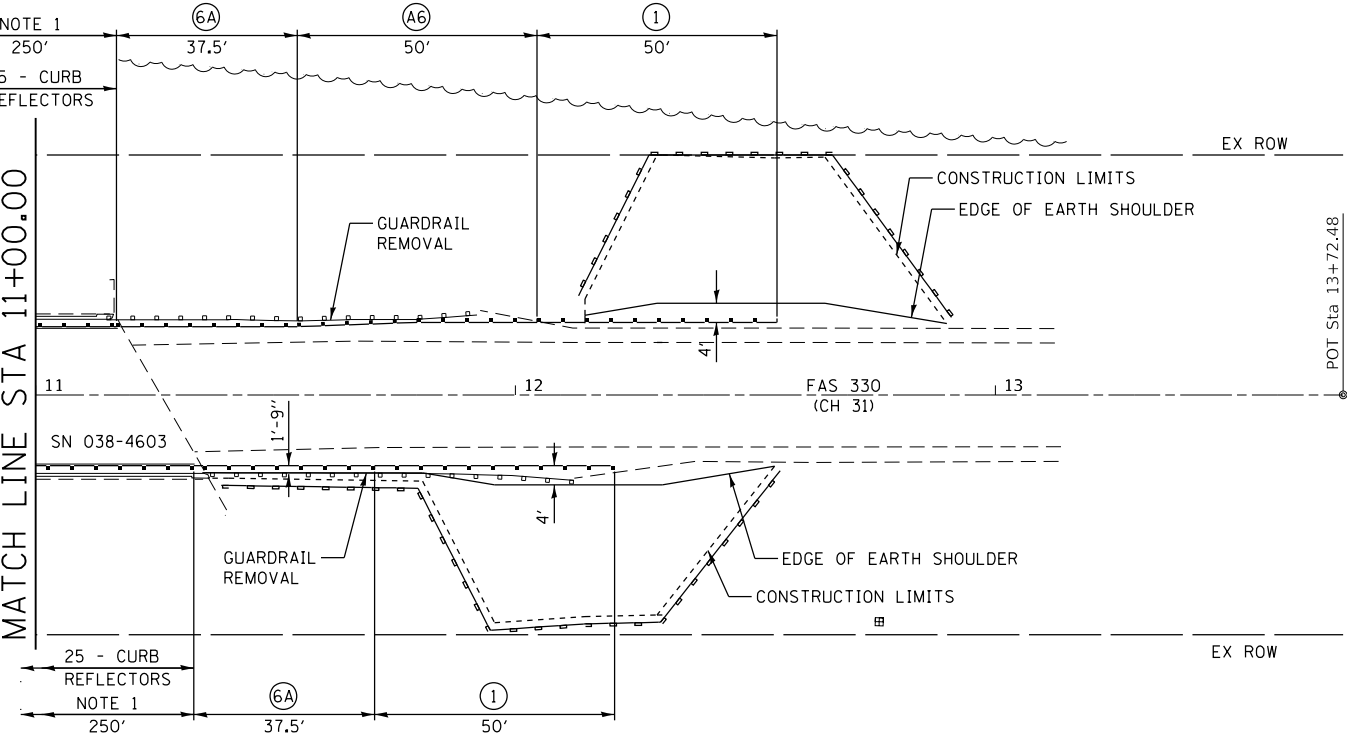
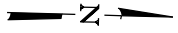
MATCH LINE STA 11+00.00

LOCATION NO. 38

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+33.06	1503045.36	1158066.34
POT	10+00.00	1503412.16	1158056.21
POT	13+72.48	1503784.50	1158045.94

LEGEND

①	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
⑥A	TRAFFIC BARRIER TERMINAL, TYPE 6A
⑥A	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
---	PERIMETER EROSION BARRIER



MATCH LINE STA 11+00.00

NOTE 1
 THE CONTRACTOR SHALL FURNISH AND INSTALL STEEL RAILING, TYPE 2399 ON STRUCTURE NO 038-0070. THE STEEL RAILING SHALL BE ATTACHED TO THE EXISTING CONCRETE PARAPET (SEE STEEL RAILING, TYPE 2399 DETAIL).

CH 10 SHALL BE KEPT OPEN TO TRAFFIC DURING CONSTRUCTION. THE CONTRACTOR SHALL SCHEDULE HIS OPERATIONS TO REMOVE EXISTING RAILING AND INSTALL PROPOSED RAIL IN THE SAME DAY.

LOCATION NO. 38
 MAJOR COLLECTOR
 ADT 475 (2018)
 DESIGN SPEED 40 MPH

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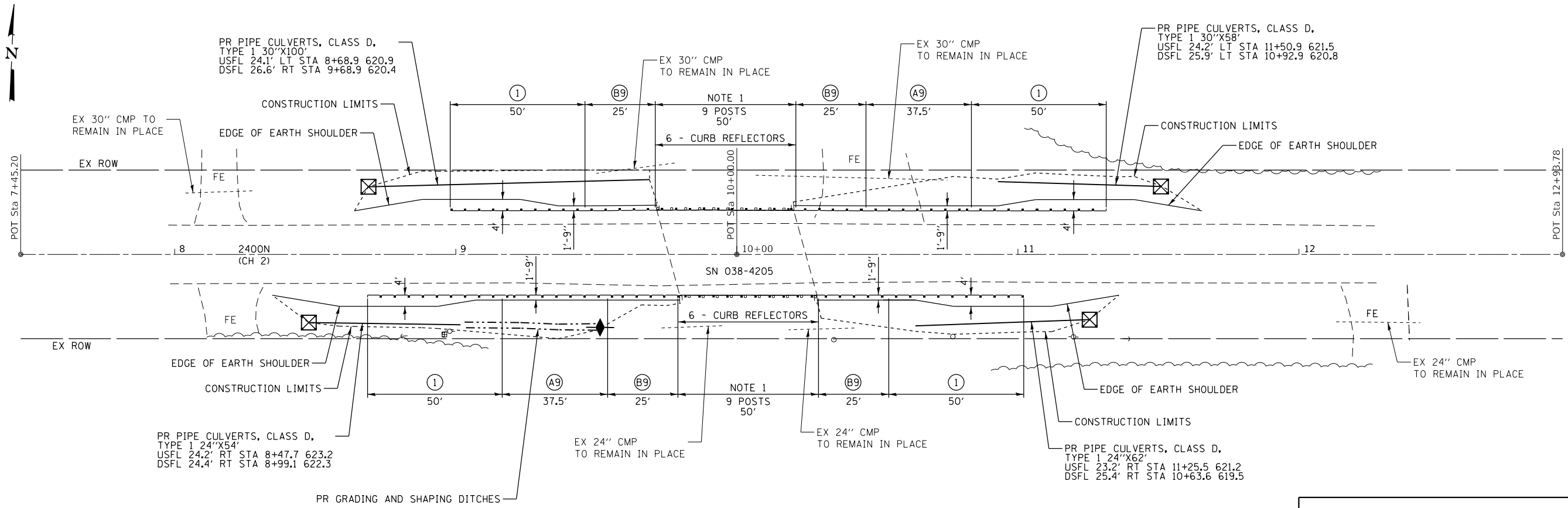
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**IROQUOIS COUNTY
 GUARDRAIL IMPROVEMENTS**

PLAN - LOCATION NO. 38

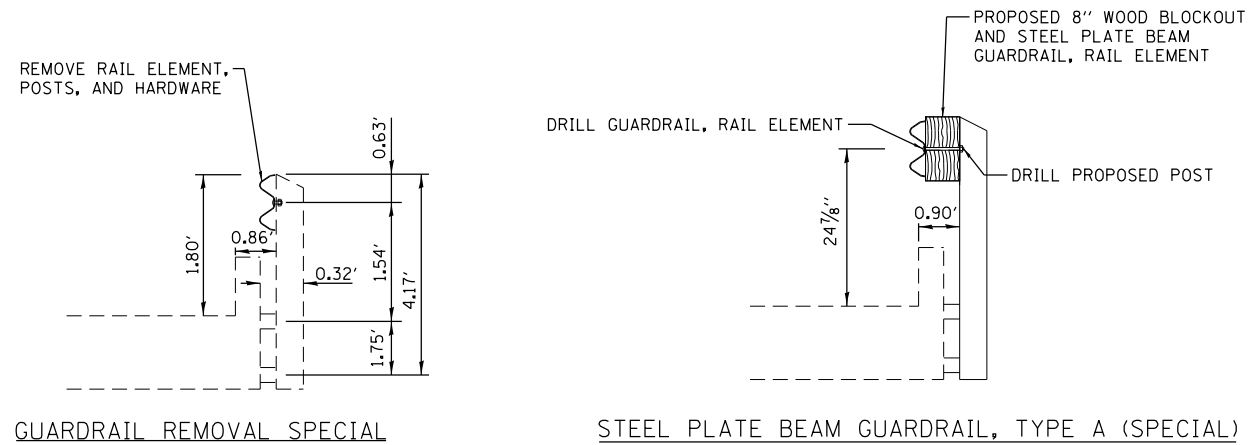
SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			19-00350-00-SP	IROQUOIS
			CONTRACT NO. 87758	
		ILLINOIS	FED. AID PROJECT	



LEGEND	
①	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
Ⓐ9	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
Ⓑ9	STEEL PLATE BEAM GUARDRAIL, TYPE B, 9 FOOT POSTS
⊠	INLET AND PIPE PROTECTION
◆	TEMPORARY DITCH CHECKS

LOCATION NO. 39			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+45.20	1527575.84	1136393.33
POT	10+00.00	1527586.17	1136647.92
POT	12+93.78	1527598.09	1136941.47



NOTE 1
 EXISTING STEEL PLATE BEAM RAIL ELEMENTS AND BLOCKOUTS SHALL BE REMOVED. EXISTING POSTS SHALL BE REMOVED BY UNBOLTING AS DIRECTED BY THE ENGINEER. NEW 8\"/>

CH 2 SHALL BE KEPT OPEN TO TRAFFIC DURING CONSTRUCTION. THE CONTRACTOR SHALL SCHEDULE HIS OPERATIONS TO REMOVE EXISTING RAILING AND POSTS AND INSTALL PROPOSED RAIL IN THE SAME DAY.

LOCATION NO. 39
 LOCAL ROADS
 ADT 500 (2018)
 DESIGN SPEED 50 MPH

MODEL Default
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 PLOT DATE = 4/1/2020

DESIGNED - CGF
 DRAWN - SJS
 CHECKED - THF
 DATE - 01/23/2020

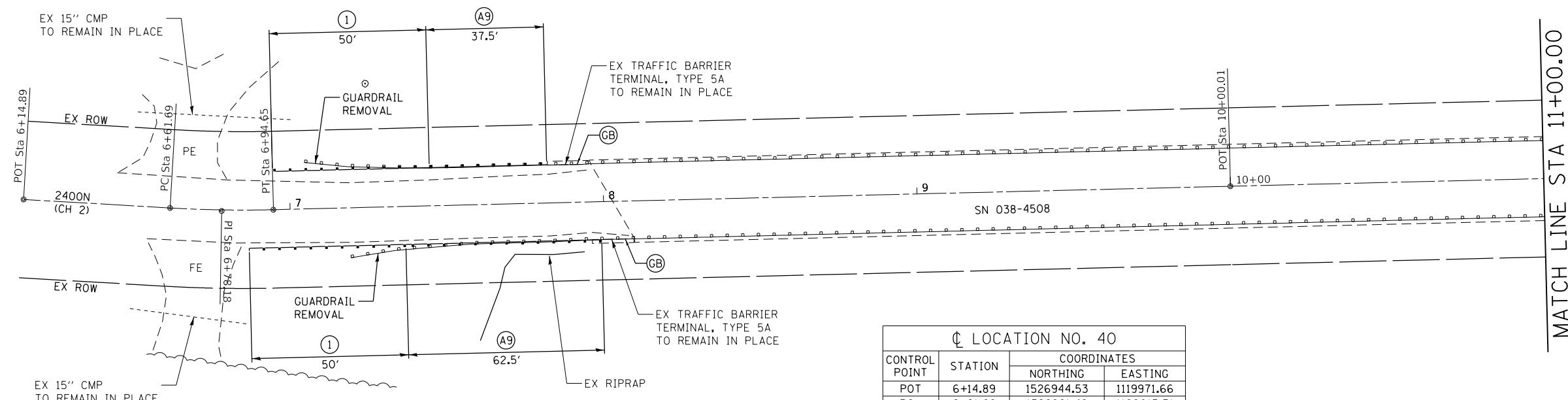
REVISED -
 REVISED -
 REVISED -
 REVISED -

**IROQUOIS COUNTY
 GUARDRAIL IMPROVEMENTS**

PLAN - LOCATION NO. 39

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			19-00350-00-SP	IROQUOIS
			CONTRACT NO. 87758	
		ILLINOIS	FED. AID PROJECT	



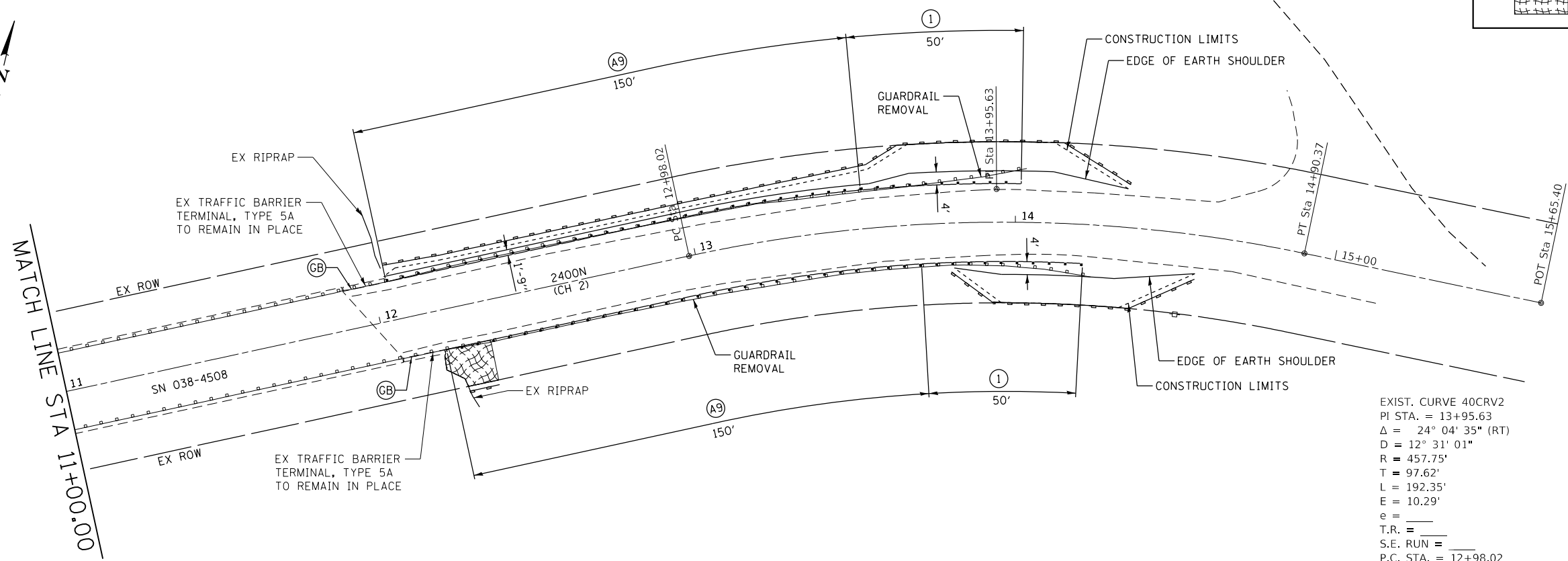
EXIST. CURVE 40CRV1
 PI STA. = 6+78.18
 $\Delta = 4^\circ 43' 16''$ (LT)
 $D = 14^\circ 19' 26''$
 $R = 400.00'$
 $T = 16.49'$
 $L = 32.96'$
 $e = 0.34'$
 $e =$
 T.R. =
 S.E. RUN =
 P.C. STA. = 6+61.69
 P.T. STA. = 6+94.65

LOCATION NO. 40

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+14.89	1526944.53	1119971.66
PC	6+61.69	1526961.42	1120015.31
PI	6+78.18	1526967.37	1120030.69
PT	6+94.65	1526974.57	1120045.52
POT	10+00.00	1527107.83	1120320.26
PC	12+98.02	1527237.88	1120588.40
PI	13+95.63	1527280.48	1120676.23
PT	14+90.37	1527283.55	1120773.80
POT	15+65.40	1527285.90	1120848.79

LEGEND

	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
	GUARDRAIL BLOCKS
	PERIMETER EROSION BARRIER
	EROSION CONTROL BLANKET



EXIST. CURVE 40CRV2
 PI STA. = 13+95.63
 $\Delta = 24^\circ 04' 35''$ (RT)
 $D = 12^\circ 31' 01''$
 $R = 457.75'$
 $T = 97.62'$
 $L = 192.35'$
 $E = 10.29'$
 $e =$
 T.R. =
 S.E. RUN =
 P.C. STA. = 12+98.02
 P.T. STA. = 14+90.37

LOCATION NO. 40
 LOCAL ROADS
 ADT 425 (2018)
 DESIGN SPEED 50 MPH

MODEL: Defaul
 FILE NAME: 2537.1-Sht-Plan40.dgn



JOB = 2537.1	DESIGNED - CGF	REVISED -
FILE NAME = 2537.1-Sht-Plan40.dgn	DRAWN - SJS	REVISED -
PLOT SCALE = 40,0000' / In.	CHECKED - THF	REVISED -
PLOT DATE = 4/1/2020	DATE - 01/23/2020	REVISED -

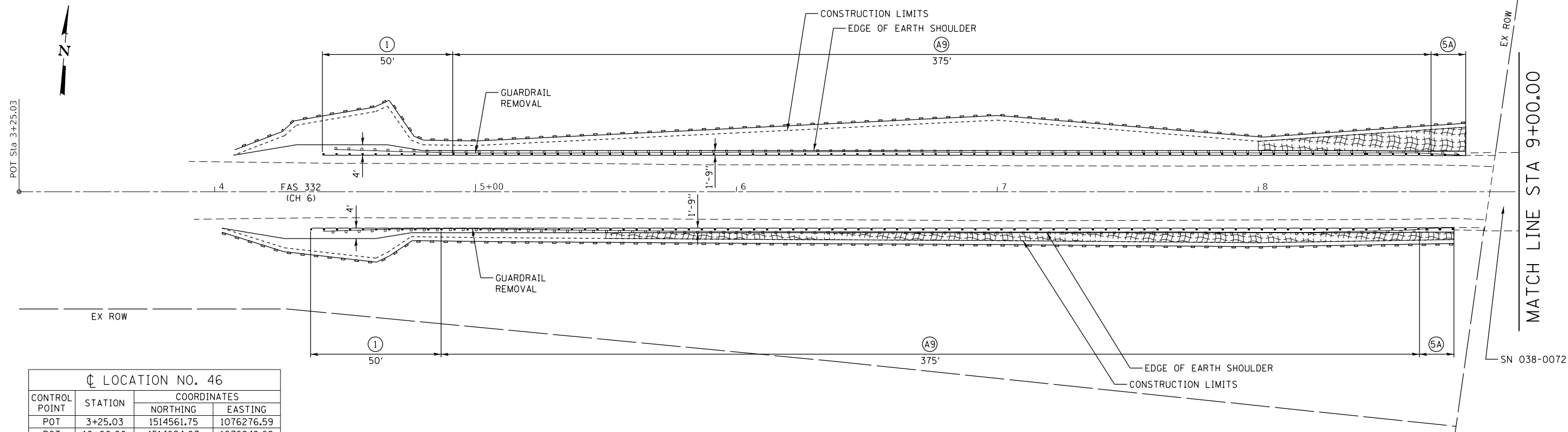
**IROQUOIS COUNTY
 GUARDRAIL IMPROVEMENTS**

PLAN - LOCATION NO. 40

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			19-00350-00-SP	IROQUOIS
			CONTRACT NO. 87758	
		ILLINOIS	FED. AID PROJECT	

SEC 29, T29N, R10E, 2ND PM



LOCATION NO. 46

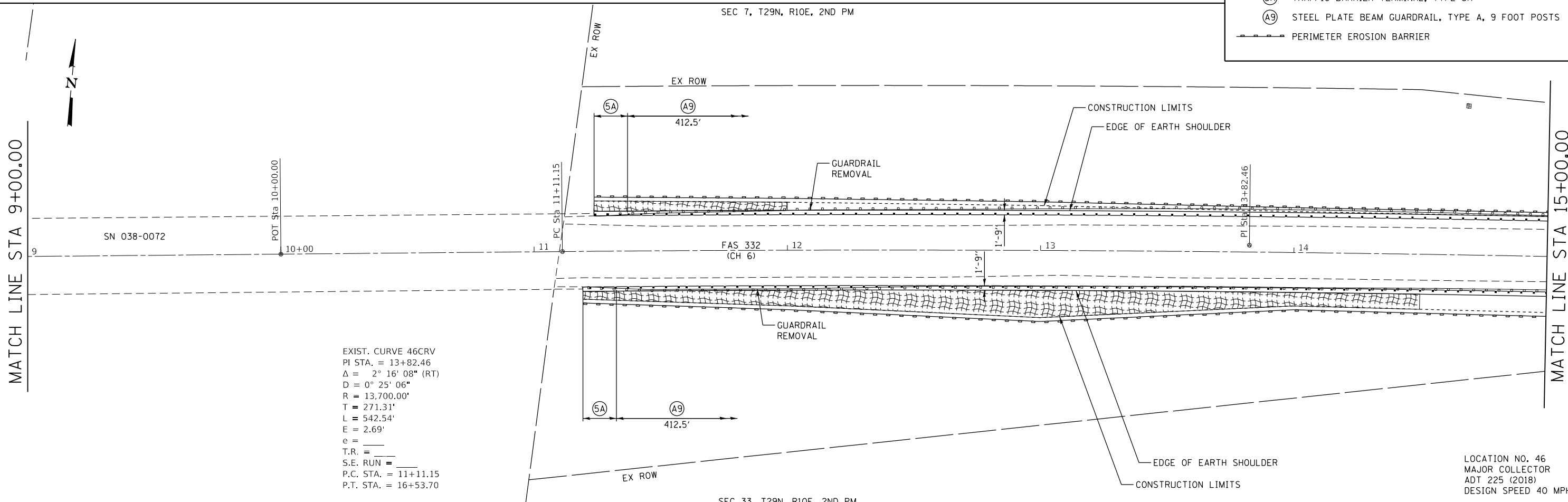
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	3+25.03	1514561.75	1076276.59
POT	10+00.00	1514624.07	1076948.68
PC	11+11.15	1514634.33	1077059.36
PI	13+82.46	1514659.38	1077329.50
PT	16+53.70	1514673.71	1077600.43
POT	17+54.80	1514679.05	1077701.39

LEGEND

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ⑤A TRAFFIC BARRIER TERMINAL, TYPE 5A
- Ⓐ9 STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- PERIMETER EROSION BARRIER

SEC 32, T29N, R10E, 2ND PM

SEC 7, T29N, R10E, 2ND PM



EXIST. CURVE 46CRV
 PI STA. = 13+82.46
 $\Delta = 2^\circ 16' 08''$ (RT)
 $D = 0^\circ 25' 06''$
 $R = 13,700.00'$
 $T = 271.31'$
 $L = 542.54'$
 $E = 2.69'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 P.C. STA. = 11+11.15
 P.T. STA. = 16+53.70

LOCATION NO. 46
 MAJOR COLLECTOR
 ADT 225 (2018)
 DESIGN SPEED 40 MPH

SEC 33, T29N, R10E, 2ND PM

IROQUOIS COUNTY
 GUARDRAIL IMPROVEMENTS

PLAN - LOCATION NO. 46



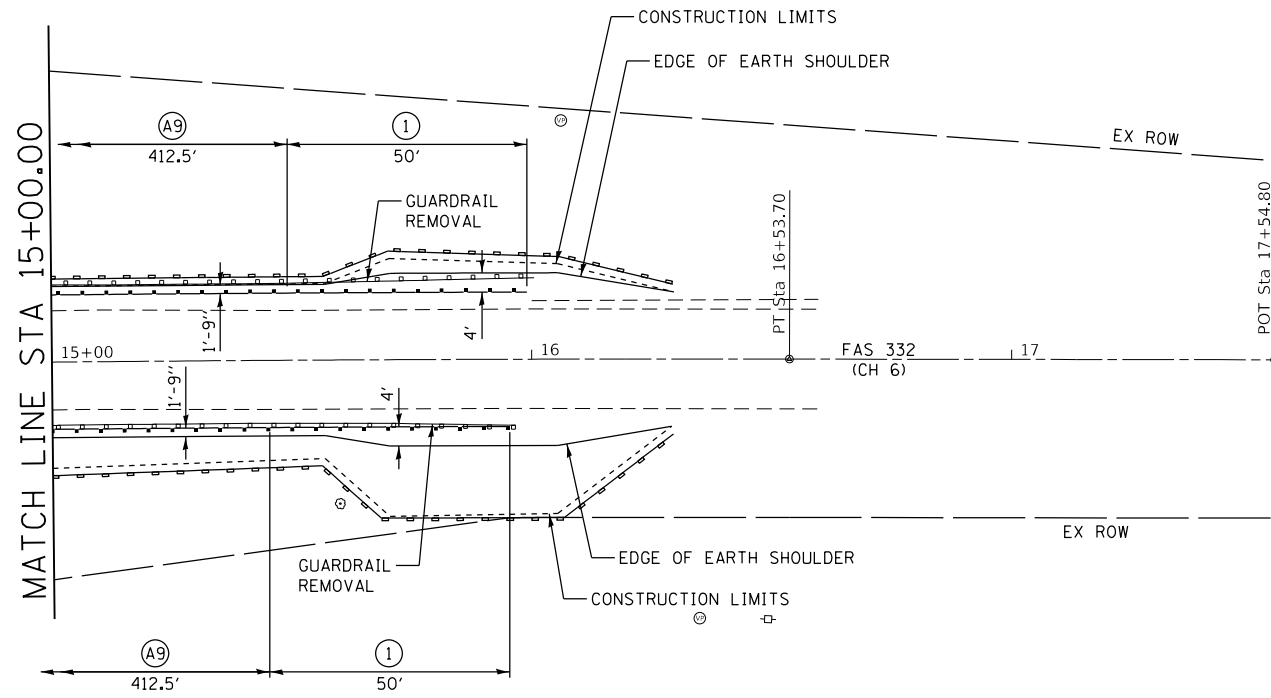
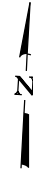
JOB = 2537.1
 FILE NAME = 2537.1-Sht-Plan46.dgn
 PLOT SCALE = 40,0000' / 1in.
 PLOT DATE = 4/1/2020

DESIGNED - CGF	REVISED -
DRAWN - SJS	REVISED -
CHECKED - THF	REVISED -
DATE - 02/05/2020	REVISED -

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL	SHEET
			SHEETS	NO.
	19-00350-00-SP	IROQUOIS	44	18
			CONTRACT NO. 87758	
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
 FILE NAME: 2537.1-Sht-Plan46.dgn



LEGEND	
(1)	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
(A9)	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
	PERIMETER EROSION BARRIER

CL LOCATION NO. 46			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	3+25.03	1514561.75	1076276.59
POT	10+00.00	1514624.07	1076948.68
PC	11+11.15	1514634.33	1077059.36
PI	13+82.46	1514659.38	1077329.50
PT	16+53.70	1514673.71	1077600.43
POT	17+54.80	1514679.05	1077701.39

LOCATION NO. 46
 MAJOR COLLECTOR
 ADT 225 (2018)
 DESIGN SPEED 40 MPH

MODEL Default
 FILE Name: 2537_1-Sht-Plan46.dgn



JOB = 2537.1	DESIGNED - CGF	REVISED -
FILE NAME = 2537_1-Sht-Plan46.dgn	DRAWN - SJS	REVISED -
PLOT SCALE = 40,0000' / In.	CHECKED - THF	REVISED -
PLOT DATE = 4/1/2020	DATE - 02/05/2020	REVISED -

**IROQUOIS COUNTY
 GUARDRAIL IMPROVEMENTS**

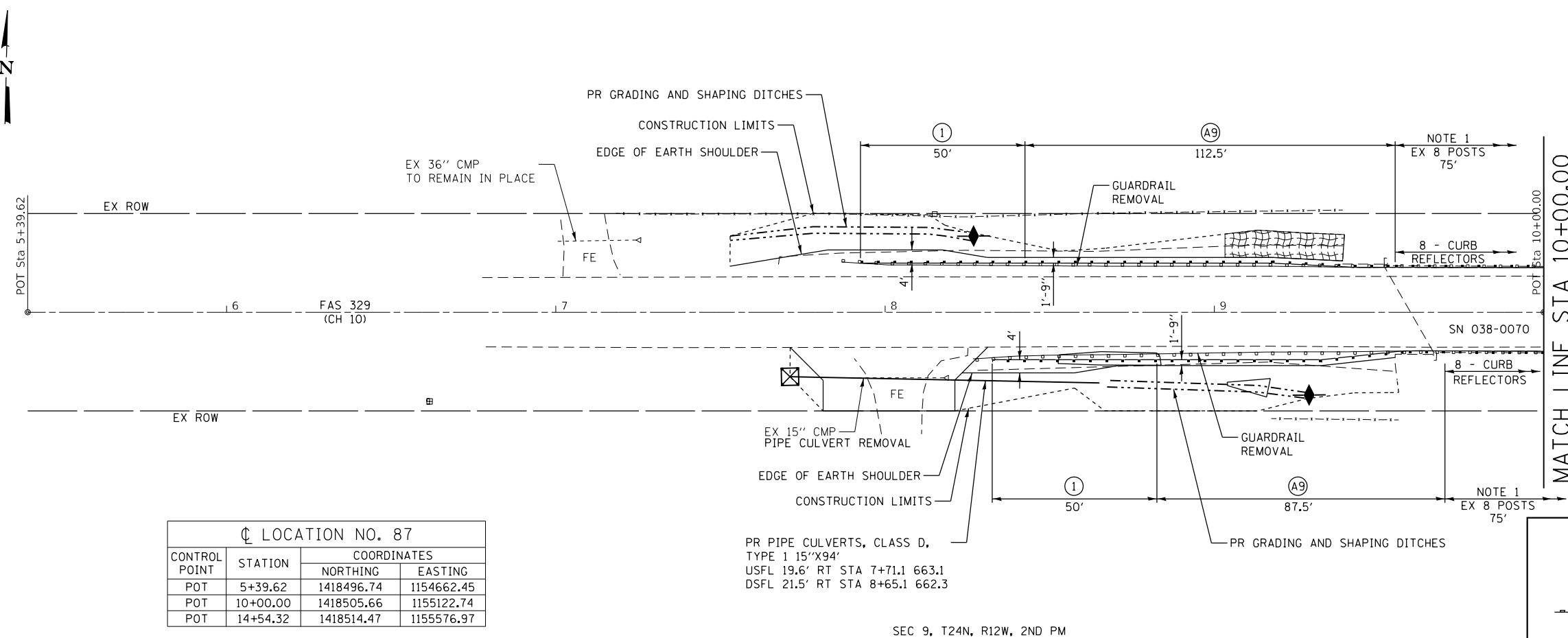
PLAN - LOCATION NO. 46

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19-00350-00-SP	IROQUOIS	44	19
CONTRACT NO. 87758				
		ILLINOIS	FED. AID PROJECT	

NOTE 1
EXISTING BRIDGE RAIL ELEMENTS SHALL BE REMOVED. NEW 8" BLOCKOUTS AND STEEL PLATE BEAM GUARDRAIL ELEMENTS SHALL BE INSTALLED ON THE EXISTING POSTS.

CH 10 SHALL BE KEPT OPEN TO TRAFFIC DURING CONSTRUCTION. THE CONTRACTOR SHALL SCHEDULE HIS OPERATIONS TO REMOVE EXISTING RAILING AND INSTALL PROPOSED RAIL IN THE SAME DAY.



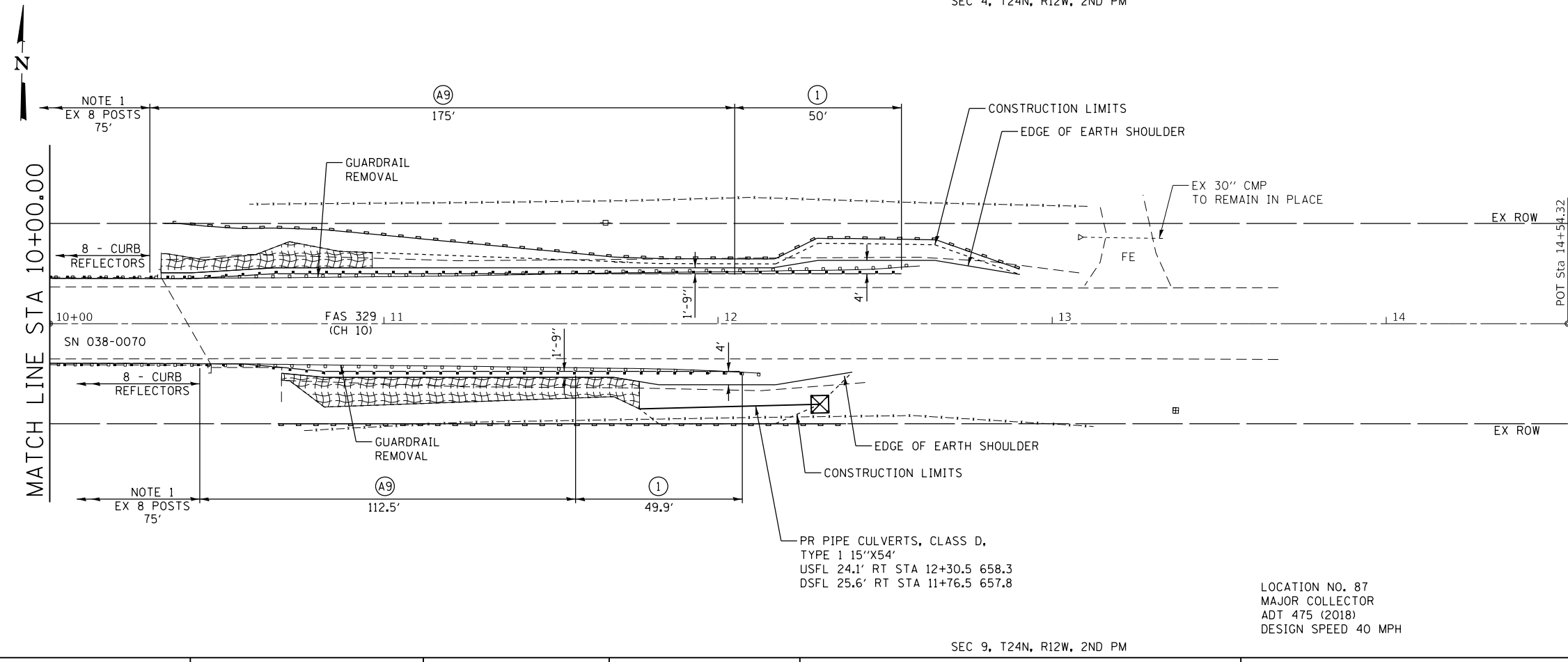
LOCATION NO. 87

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	5+39.62	1418496.74	1154662.45
POT	10+00.00	1418505.66	1155122.74
POT	14+54.32	1418514.47	1155576.97

PR PIPE CULVERTS, CLASS D,
TYPE 1 15"X94"
USFL 19.6' RT STA 7+71.1 663.1
DSFL 21.5' RT STA 8+65.1 662.3

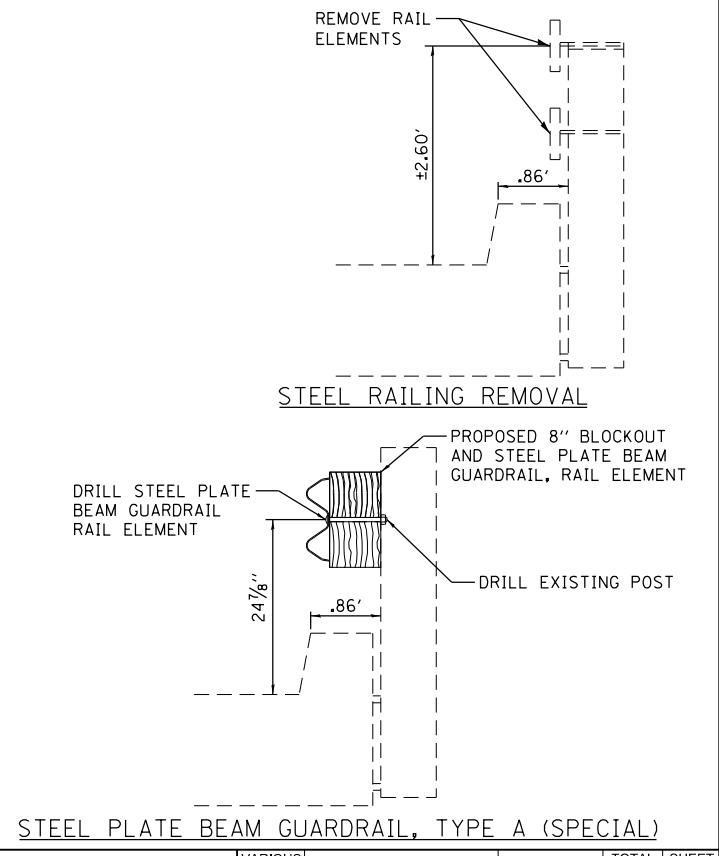
LEGEND

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- Ⓐ9 STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- PERIMETER EROSION BARRIER
- ◆ TEMPORARY DITCH CHECKS
- ⊠ INLET AND PIPE PROTECTION
- ▨ HEAVY DUTY EROSION CONTROL BLANKET



PR PIPE CULVERTS, CLASS D,
TYPE 1 15"X54"
USFL 24.1' RT STA 12+30.5 658.3
DSFL 25.6' RT STA 11+76.5 657.8

LOCATION NO. 87
MAJOR COLLECTOR
ADT 475 (2018)
DESIGN SPEED 40 MPH



MODEL: Default
FILE NAME: 2537.1-Sht-Plan87.dgn



JOB = 2537.1
FILE NAME = 2537.1-Sht-Plan87.dgn
PLOT SCALE = 40,0000' / 1in.
PLOT DATE = 4/1/2020

DESIGNED - CGF
DRAWN - SJS
CHECKED - THF
DATE - 01/23/2020

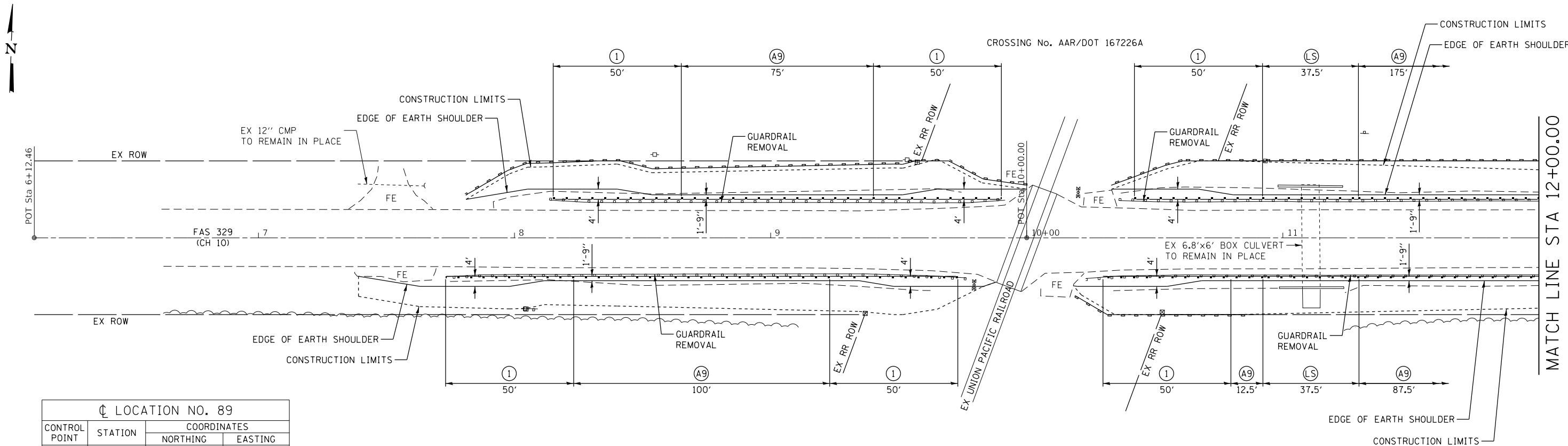
REVISED -
REVISED -
REVISED -
REVISED -

**IROQUOIS COUNTY
GUARDRAIL IMPROVEMENTS**

PLAN - LOCATION NO. 87

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			19-00350-00-SP	IROQUOIS
CONTRACT NO. 87758				
		ILLINOIS	FED. AID PROJECT	

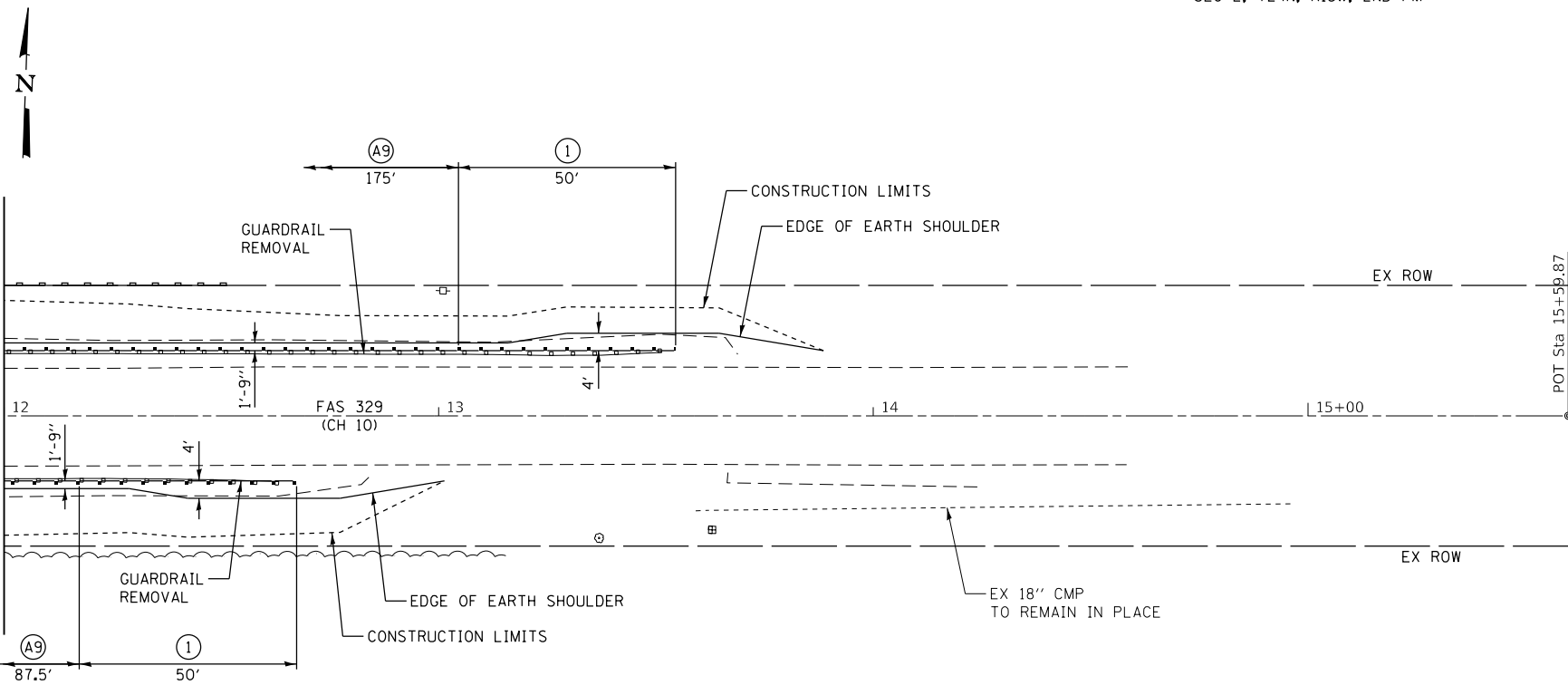


CL LOCATION NO. 89

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+12.46	1418339.57	1134768.10
POT	10+00.00	1418351.78	1135155.44
POT	15+59.87	1418369.42	1135715.04

LEGEND

- (1) TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- (A9) STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- (LS) LONG SPAN GUARDRAIL OVER CULVERT, 12 FOOT 6 INCH SPAN
- PERIMETER EROSION BARRIER



LOCATION NO. 89
MAJOR COLLECTOR
ADT 575 (2018)
DESIGN SPEED 50 MPH

MODEL Default
FILE Name: 2537.1-Shh-Plan89.dgn

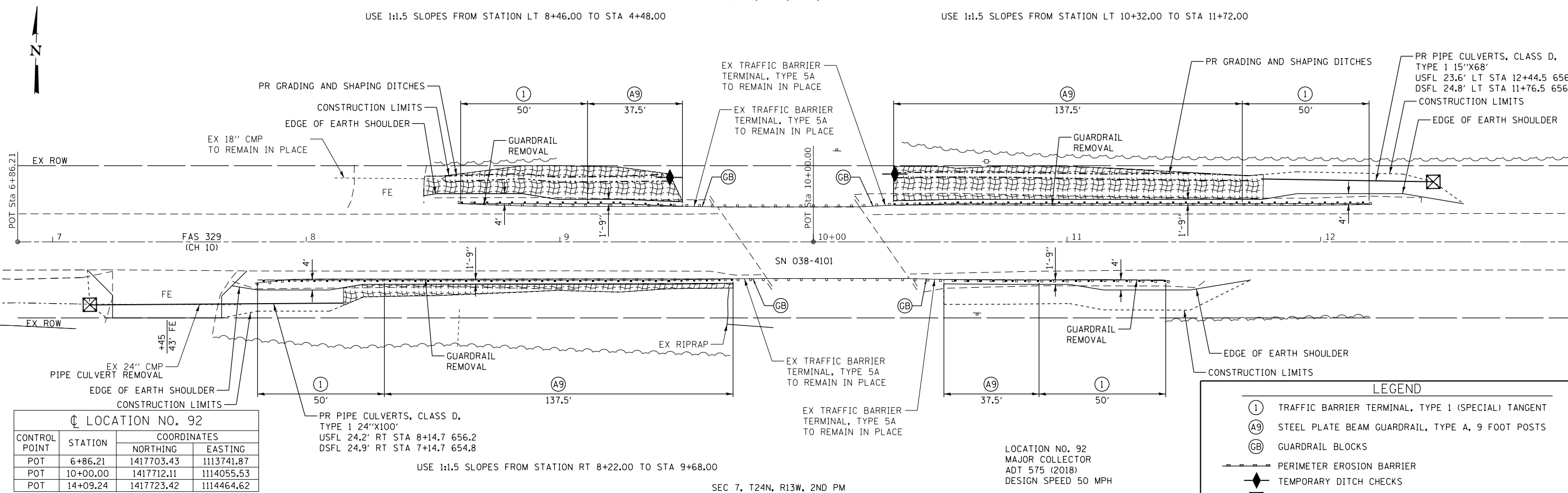
CEC Cummins Engineering Corporation <small>Civil and Structural Engineering</small>	JOB = 2537.1	DESIGNED - CGF	REVISED -
	FILE NAME = 2537.1-Shh-Plan89.dgn	DRAWN - SJS	REVISED -
	PLOT SCALE = 40,0000' / 1in.	CHECKED - THF	REVISED -
	PLOT DATE = 4/1/2020	DATE - 01/23/2020	REVISED -

**IROQUOIS COUNTY
GUARDRAIL IMPROVEMENTS**

PLAN - LOCATION NO. 89

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19-00350-00-SP	IROQUOIS	44	21
CONTRACT NO. 87758				
		ILLINOIS	FED. AID PROJECT	



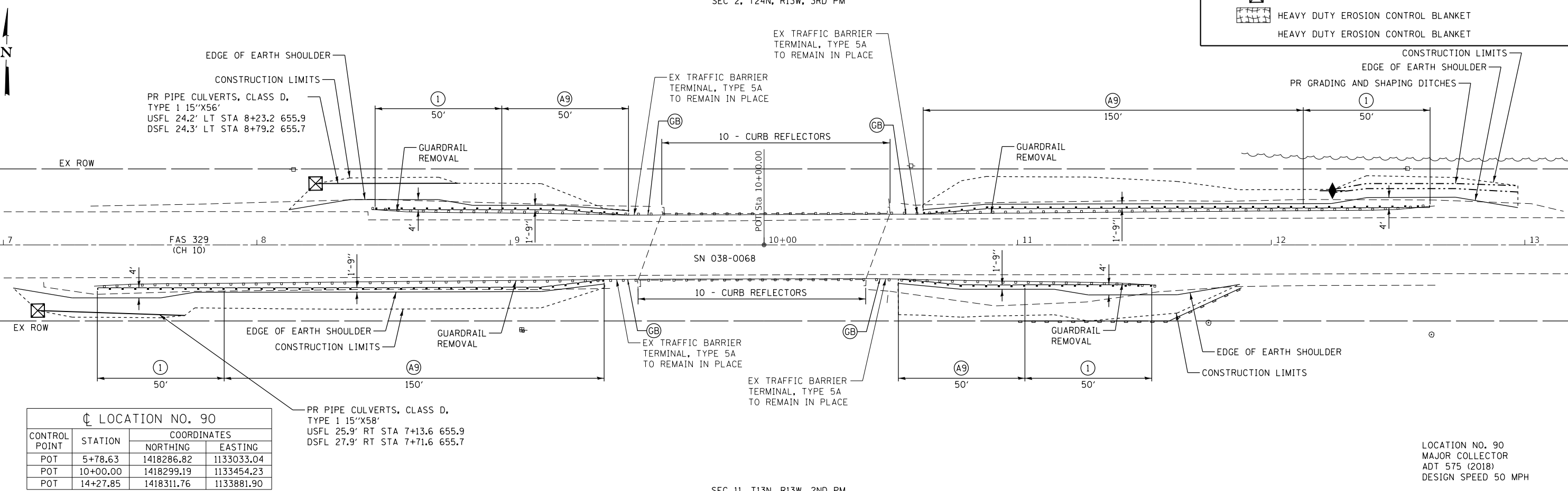
LOCATION NO. 92

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+86.21	1417703.43	1113741.87
POT	10+00.00	1417712.11	1114055.53
POT	14+09.24	1417723.42	1114464.62

LEGEND

- (1) TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- (A9) STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- (GB) GUARDRAIL BLOCKS
- PERIMETER EROSION BARRIER
- TEMPORARY DITCH CHECKS
- INLET AND PIPE PROTECTION
- HEAVY DUTY EROSION CONTROL BLANKET
- HEAVY DUTY EROSION CONTROL BLANKET

LOCATION NO. 92
MAJOR COLLECTOR
ADT 575 (2018)
DESIGN SPEED 50 MPH



LOCATION NO. 90

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	5+78.63	1418286.82	1133033.04
POT	10+00.00	1418299.19	1133454.23
POT	14+27.85	1418311.76	1133881.90

LOCATION NO. 90
MAJOR COLLECTOR
ADT 575 (2018)
DESIGN SPEED 50 MPH

**IROQUOIS COUNTY
GUARDRAIL IMPROVEMENTS**

PLAN - LOCATION NO. 90 & 92



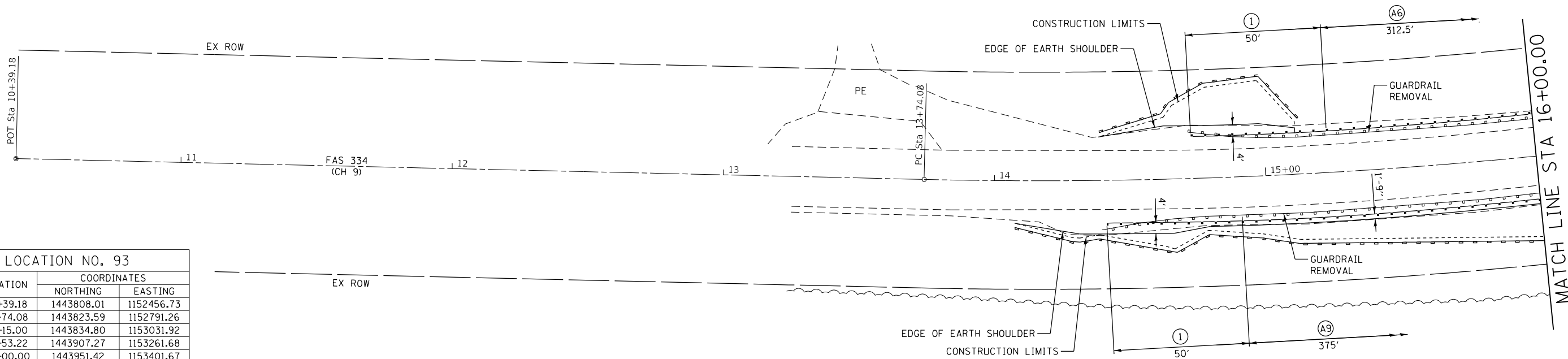
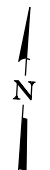
JOB = 2537.1
FILE NAME = 2537.1-Shk-Plan92-90.dgn
PLOT SCALE = 40,000' / 1in.
PLOT DATE = 4/1/2020

DESIGNED - CGF	REVISED -
DRAWN - SJS	REVISED -
CHECKED - THF	REVISED -
DATE - 01/23/2020	REVISED -

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19-00350-00-SP	IROQUOIS	44	22
CONTRACT NO. 87758				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: 2537.1-Shk-Plan92-90.dgn



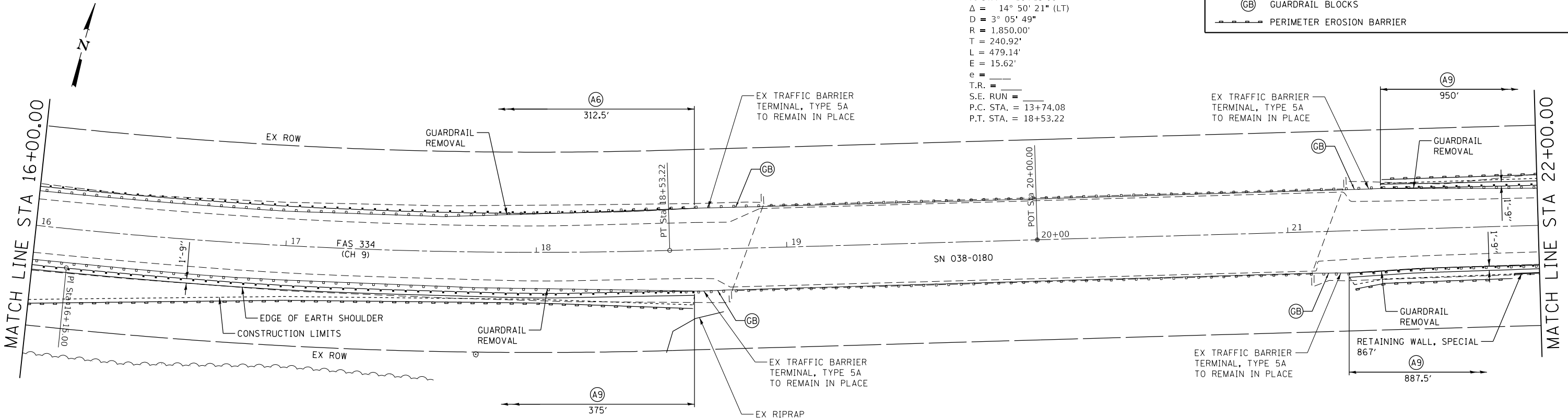
LOCATION NO. 93

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	10+39.18	1443808.01	1152456.73
PC	13+74.08	1443823.59	1152791.26
PI	16+15.00	1443834.80	1153031.92
PT	18+53.22	1443907.27	1153261.68
POT	20+00.00	1443951.42	1153401.67
PC	27+76.89	1444185.11	1154142.57
PI	33+12.46	1444346.21	1154653.34
PT	38+13.92	1444182.50	1155163.27
POT	40+56.05	1444108.49	1155393.82

LEGEND

- (1) TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- (A6) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (A9) STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- (GB) GUARDRAIL BLOCKS
- PERIMETER EROSION BARRIER

EXIST. CURVE 93CRV1
 PI STA. = 16+15.00
 $\Delta = 14^\circ 50' 21''$ (LT)
 $D = 3^\circ 05' 49''$
 $R = 1,850.00'$
 $T = 240.92'$
 $L = 479.14'$
 $E = 15.62'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 13+74.08$
 $P.T. STA. = 18+53.22$



LOCATION NO. 93
 MAJOR COLLECTOR
 ADT 800 (2018)
 DESIGN SPEED 50 MPH

MODEL Default
 FILE NAME: 2537.1-Shk-Plan93.dgn



JOB = 2537.1
 FILE NAME = 2537.1-Shk-Plan93.dgn
 PLOT SCALE = 40,000' / 1 in.
 PLOT DATE = 4/1/2020

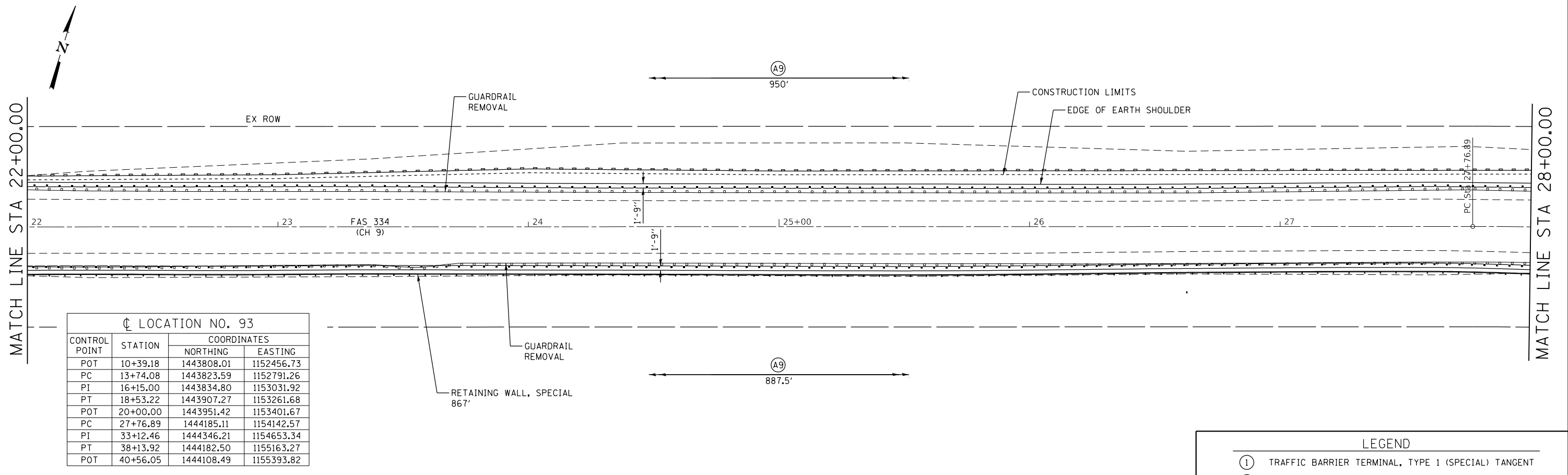
DESIGNED - CGF	REVISED -
DRAWN - SJS	REVISED -
CHECKED - THF	REVISED -
DATE - 01/23/2020	REVISED -

**IROQUOIS COUNTY
 GUARDRAIL IMPROVEMENTS**

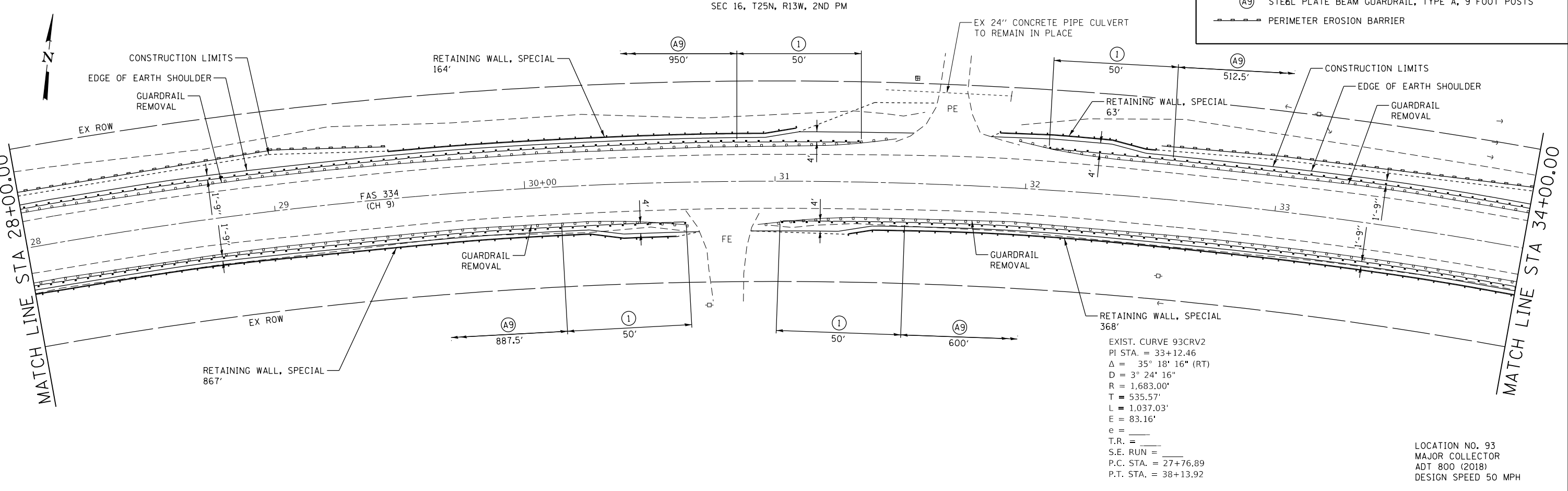
PLAN - LOCATION NO. 93

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			19-00350-00-SP	IROQUOIS
			CONTRACT NO. 87758	
		ILLINOIS	FED. AID PROJECT	



LEGEND	
(1)	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
(A9)	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
---	PERIMETER EROSION BARRIER



LOCATION NO. 93
 MAJOR COLLECTOR
 ADT 800 (2018)
 DESIGN SPEED 50 MPH

MODEL: D:\cfe\it
 FILE NAME: 2537.1-Sht-Plan93.dgn



JOB = 2537.1
 FILE NAME = 2537.1-Sht-Plan93.dgn
 PLOT SCALE = 40,000' / 1" =
 PLOT DATE = 4/1/2020

DESIGNED - CGF
 DRAWN - SJS
 CHECKED - THF
 DATE - 01/23/2020

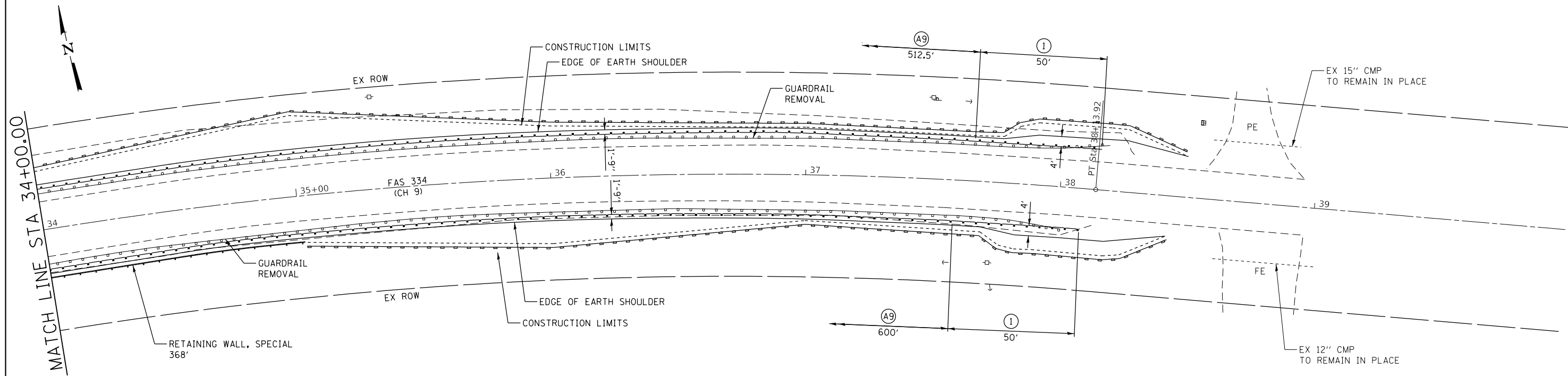
REVISED -
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 REVISED -
 REVISED -

**IROQUOIS COUNTY
 GUARDRAIL IMPROVEMENTS**

PLAN - LOCATION NO. 93

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			19-00350-00-SP	IROQUOIS
			CONTRACT NO. 87758	
		ILLINOIS	FED. AID PROJECT	



LEGEND	
①	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
Ⓐ9	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
—	PERIMETER EROSION BARRIER

LOCATION NO. 93			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	10+39.18	1443808.01	1152456.73
PC	13+74.08	1443823.59	1152791.26
PI	16+15.00	1443834.80	1153031.92
PT	18+53.22	1443907.27	1153261.68
POT	20+00.00	1443951.42	1153401.67
PC	27+76.89	1444185.11	1154142.57
PI	33+12.46	1444346.21	1154653.34
PT	38+13.92	1444182.50	1155163.27
POT	40+56.05	1444108.49	1155393.82

EXIST. CURVE 93CRV2
 PI STA. = 33+12.46
 $\Delta = 35^\circ 18' 16''$ (RT)
 $D = 3^\circ 24' 16''$
 $R = 1,683.00'$
 $T = 535.57'$
 $L = 1,037.03'$
 $E = 83.16'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 27+76.89$
 $P.T. STA. = 38+13.92$

LOCATION NO. 93
 MAJOR COLLECTOR
 ADT 800 (2018)
 DESIGN SPEED 50 MPH

MODEL: Default
 FILE NAME: 2537_1-Shk-Plan93.dgn



JOB = 2537.1
FILE NAME = 2537_1-Shk-Plan93.dgn
PLOT SCALE = 40,0000' / 1in.
PLOT DATE = 4/1/2020

DESIGNED - CGF	REVISED -
DRAWN - SJS	REVISED -
CHECKED - THF	REVISED -
DATE - 01/23/2020	REVISED -

**IROQUOIS COUNTY
 GUARDRAIL IMPROVEMENTS**

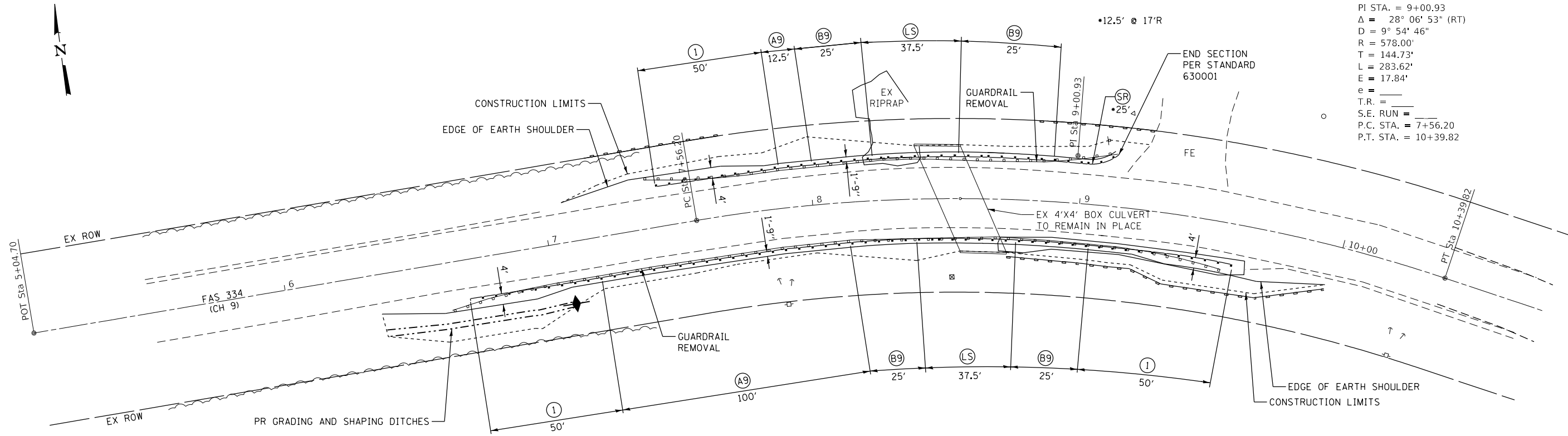
PLAN - LOCATION NO. 93

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19-00350-00-SP	IROQUOIS	44	25
CONTRACT NO. 87758				
		ILLINOIS	FED. AID PROJECT	

SEC 8, T25N, R12W, 2ND PM

EXIST. CURVE 94CRV
 PI STA. = 9+00.93
 $\Delta = 28^{\circ} 06' 53''$ (RT)
 $D = 9^{\circ} 54' 46''$
 $R = 578.00'$
 $T = 144.73'$
 $L = 283.62'$
 $E = 17.84'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 7+56.20$
 $P.T. STA. = 10+39.82$



SEC 17, T25N, R12W, 2ND PM

LOCATION NO. 94

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	5+04.70	1444702.34	1150184.68
PC	7+56.20	1444712.18	1150435.99
POC	8+55.27	1444707.58	1150534.83
PI	9+00.93	1444717.85	1150580.60
PT	10+39.82	1444654.69	1150710.83
POT	11+58.57	1444602.88	1150817.68

LEGEND

(1)	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
(A9)	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
(B9)	STEEL PLATE BEAM GUARDRAIL, TYPE B, 9 FOOT POSTS
(LS)	LONG SPAN GUARDRAIL OVER CULVERT, 12 FOOT 6 INCH SPAN
(SR)	STEEL PLATE BEAM GUARDRAIL, (SHORT RADIUS)
	PERIMETER EROSION BARRIER
	TEMPORARY DITCH CHECKS

NOTE:
 CONTRACTOR SHALL FIELD VERIFY
 POST ATTACHMENT TO CULVERT
 PRIOR TO GUARDRAIL REMOVAL.

LOCATION NO. 94
 MAJOR COLLECTOR
 ADT 800 (2018)
 DESIGN SPEED 50 MPH

MODEL: Default
 FILE NAME: 2537.1-Sht-Plan94.dgn



JOB = 2537.1
 FILE NAME = 2537.1-Sht-Plan94.dgn
 PLOT SCALE = 40,0000' / 1in.
 PLOT DATE = 4/1/2020

DESIGNED - CGF
 DRAWN - SJS
 CHECKED - THF
 DATE - 01/23/2020

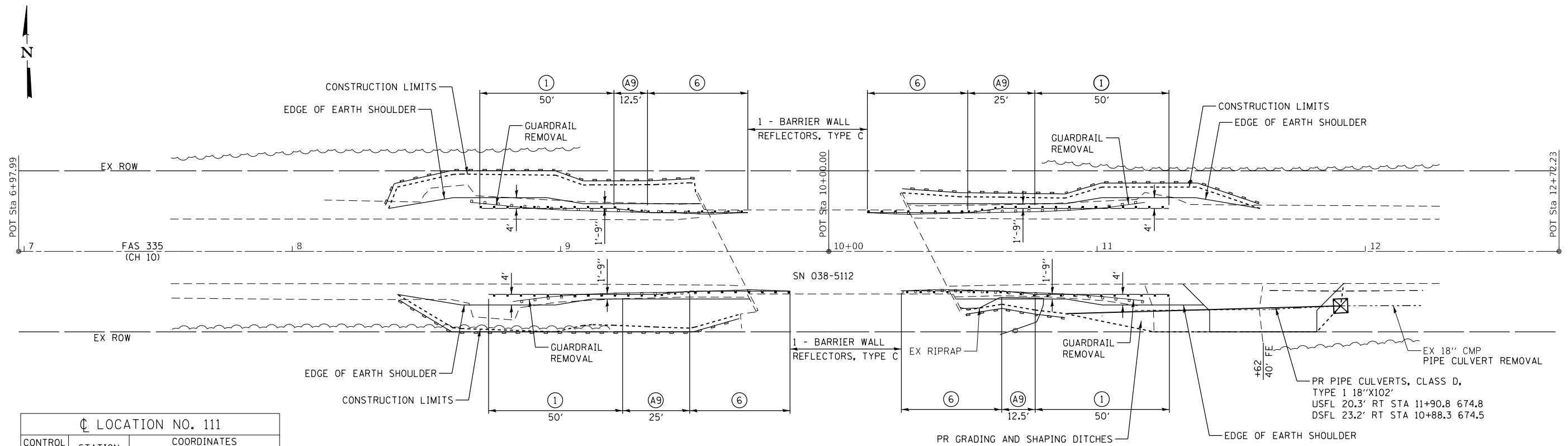
REVISED -
 REVISED -
 REVISED -
 REVISED -

**IROQUOIS COUNTY
 GUARDRAIL IMPROVEMENTS**

PLAN - LOCATION NO. 94

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL	SHEET
			SHEETS	NO.
	19-00350-00-SP	IROQUOIS	44	26
			CONTRACT NO. 87758	
		ILLINOIS	FED. AID PROJECT	



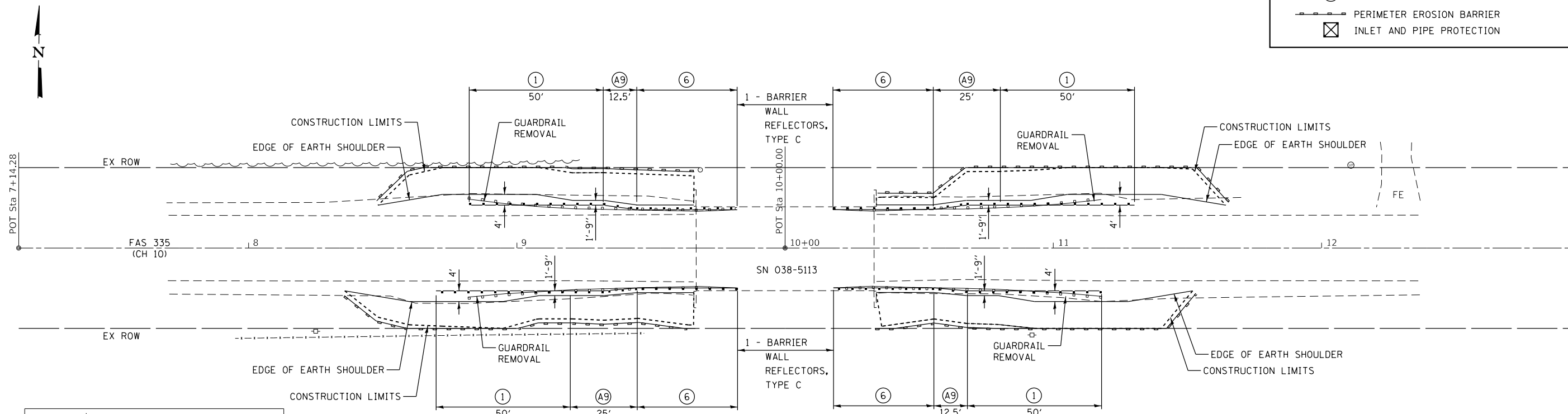
CL LOCATION NO. 111

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+97.99	1406898.97	1098519.82
POT	10+00.00	1406895.55	1098821.82
POT	12+72.23	1406892.48	1099094.03

LOCATION NO. 111
MAJOR COLLECTOR
ADT 300 (2018)
DESIGN SPEED 40 MPH

LEGEND

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ⑥ TRAFFIC BARRIER TERMINAL, TYPE 6
- Ⓐ STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- PERIMETER EROSION BARRIER
- ⊠ INLET AND PIPE PROTECTION



CL LOCATION NO. 110

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+14.28	1406961.82	1104295.59
POT	10+00.00	1406964.94	1104581.29
POT	12+97.09	1406968.18	1104878.37

LOCATION NO. 110
MAJOR COLLECTOR
ADT 300 (2018)
DESIGN SPEED 40 MPH

MODEL: Default
FILE NAME: 2537_1-Shk-Plan110-111.dgn



JOB = 2537.1
FILE NAME = 2537_1-Shk-Plan110-111.dgn
PLOT SCALE = 40,000' / 1 in.
PLOT DATE = 4/1/2020

DESIGNED - CGF
DRAWN - SJS
CHECKED - THF
DATE - 01/23/2020

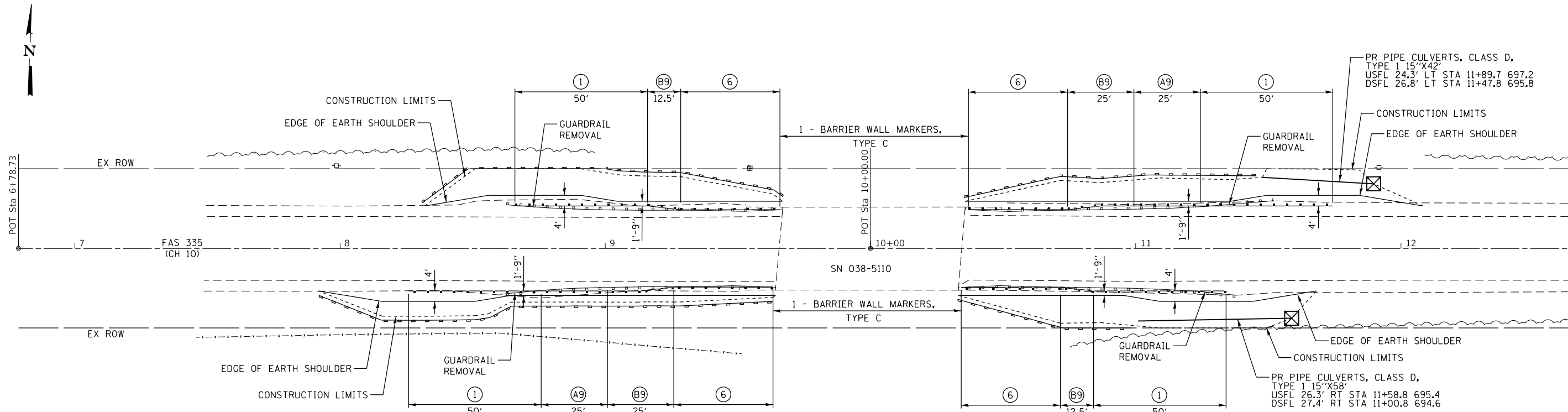
REVISED -
REVISED -
REVISED -
REVISED -

**IROQUOIS COUNTY
GUARDRAIL IMPROVEMENTS**

PLAN - LOCATIONS NO. 110 & 111

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			19-00350-00-SP	IROQUOIS
			CONTRACT NO. 87758	
		ILLINOIS	FED. AID PROJECT	



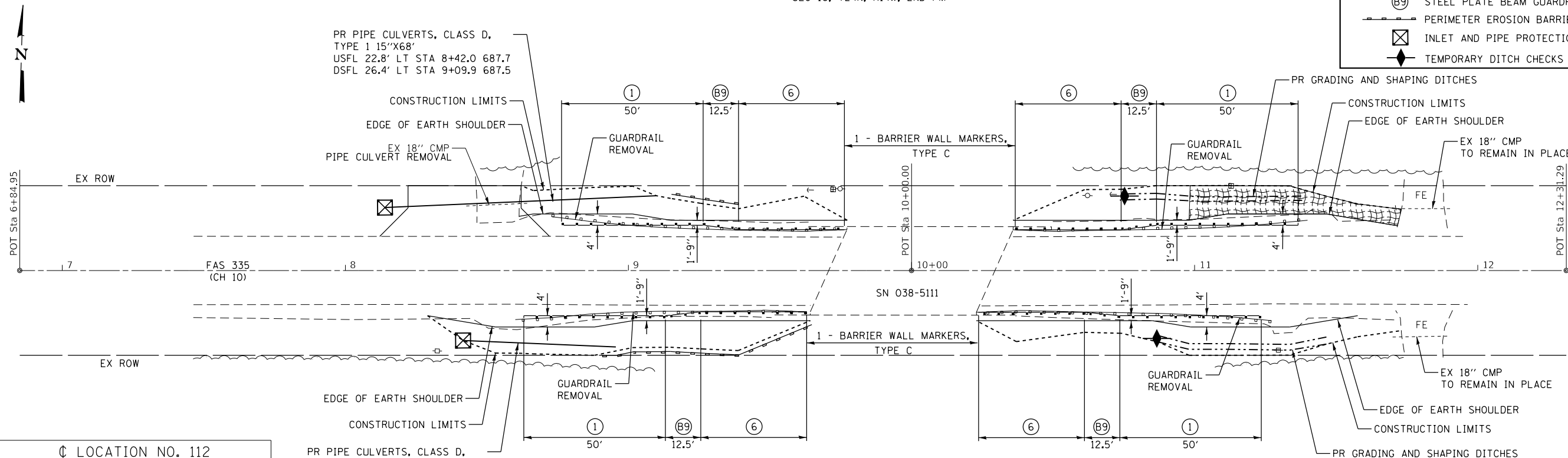
LOCATION NO. 113

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+78.73	1406645.30	1082992.12
POT	10+00.00	1406656.23	1083313.20
POT	13+31.43	1406667.51	1083644.44

LOCATION NO. 113
MAJOR COLLECTOR
ADT 400 (2018)
DESIGN SPEED 50 MPH

LEGEND

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ⑥ TRAFFIC BARRIER TERMINAL, TYPE 6
- Ⓐ9 STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- Ⓑ9 STEEL PLATE BEAM GUARDRAIL, TYPE B, 9 FOOT POSTS
- PERIMETER EROSION BARRIER
- ⊠ INLET AND PIPE PROTECTION
- ◆ TEMPORARY DITCH CHECKS



LOCATION NO. 112

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+84.95	1406798.57	1090127.70
POT	10+00.00	1406808.23	1090442.60
POT	12+31.29	1406815.32	1090673.77

PR PIPE CULVERTS, CLASS D,
TYPE 1 15"X54"
USFL 24.8' RT STA 8+41.6 687.3
DSFL 27.0' RT STA 8+95.5 686.8

LOCATION NO. 112
MAJOR COLLECTOR
ADT 300 (2018)
DESIGN SPEED 40 MPH

IROQUOIS COUNTY
GUARDRAIL IMPROVEMENTS

PLAN - LOCATION NO. 112 & 113



JOB = 2537.1
FILE NAME = 2537.1-Sht-Plan112-113.dgn
PLOT SCALE = 40,0000' / 1 in.
PLOT DATE = 4/1/2020

DESIGNED - CGF
DRAWN - SJS
CHECKED - THF
DATE - 01/23/2020

REVISED -
REVISED -
REVISED -
REVISED -

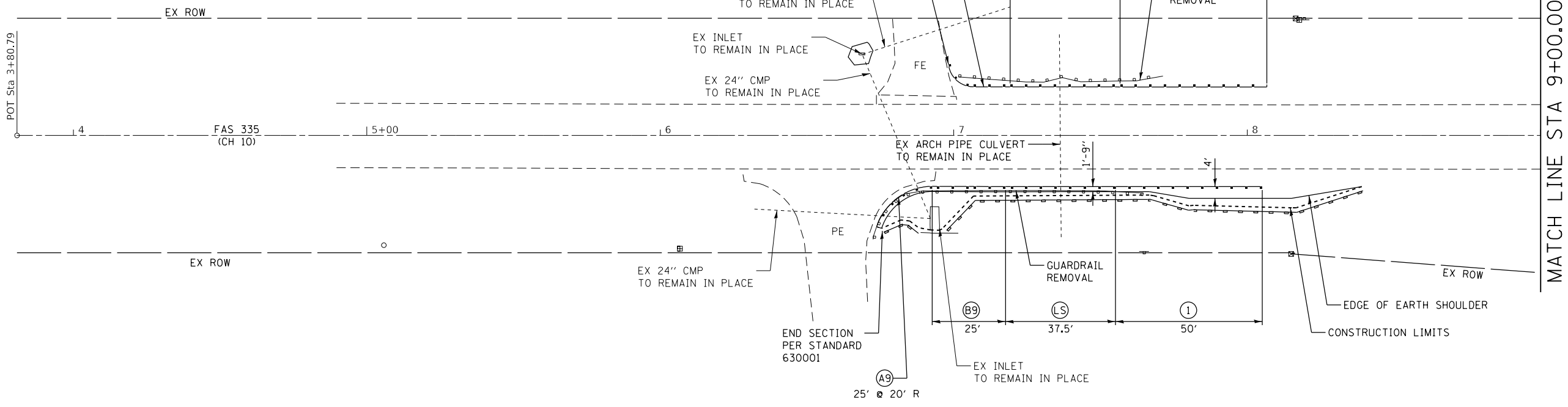
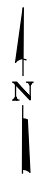
SCALE:	SHEET	OF	SHEETS	STA.	TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19-00350-00-SP	IROQUOIS	44	28
CONTRACT NO. 87758				
ILLINOIS FED. AID PROJECT				

MODEL Default
FILE Name: 2537.1-Sht-Plan112-113.dgn

SEC 20, T24N, R10E, 2ND PM

•12.5' @ 8.5' R



SEC 29, T24N, R10E, 2ND PM

LEGEND	
①	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
②	TRAFFIC BARRIER TERMINAL, TYPE 2
Ⓑ9	STEEL PLATE BEAM GUARDRAIL, TYPE B, 9 FOOT POSTS
ⒻS	LONG SPAN GUARDRAIL OVER CULVERT, 12 FOOT 6 INCH SPAN
ⒻR	STEEL PLATE BEAM GUARDRAIL, (SHORT RADIUS)
---	PERIMETER EROSION BARRIER

LOCATION NO. 117 & 118			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	3+80.79	1402418.31	1051797.03
POT	20+00.00	1402426.44	1053416.21
POT	26+48.51	1402429.70	1054064.72

LOCATION NO. 118
 MAJOR COLLECTOR
 ADT 1300 (2018)
 DESIGN SPEED 40 MPH

MODEL: Default
 FILE NAME: 2537.1-Sht-Plan117-118.dgn



JOB = 2537.1	DESIGNED - CGF	REVISED -
FILE NAME = 2537.1-Sht-Plan117-118.dgn	DRAWN - SJS	REVISED -
PLOT SCALE = 40,000' / In.	CHECKED - THF	REVISED -
PLOT DATE = 4/1/2020	DATE - 01/23/2020	REVISED -

**IROQUOIS COUNTY
 GUARDRAIL IMPROVEMENTS**

PLAN - LOCATION NO. 118

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19-00350-00-SP	IROQUOIS	44	29
CONTRACT NO. 87758				
ILLINOIS		FED. AID PROJECT		



MATCH LINE STA 9+00.00

EX ROW

FAS 335
(CH 10)

10+00

11

12

13

14

MATCH LINE STA 14+50.00

EX ROW

F.E.

EDGE OF EARTH SHOULDER

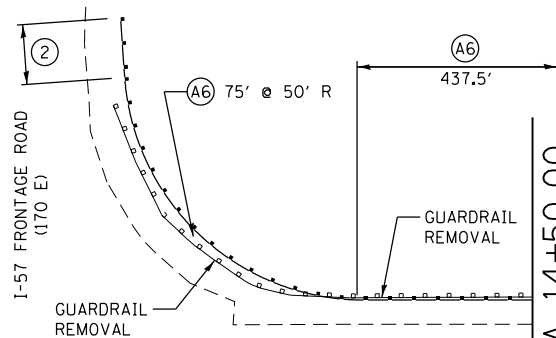
CONSTRUCTION LIMITS

①
50'

Ⓐ
637.5'

4'

GUARDRAIL
REMOVAL



LOCATION NO. 117 & 118			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	3+80.79	1402418.31	1051797.03
POT	20+00.00	1402426.44	1053416.21
POT	26+48.51	1402429.70	1054064.72

EX ROW

LEGEND	
①	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
②	TRAFFIC BARRIER TERMINAL, TYPE 2
Ⓐ	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
Ⓑ	STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS
---	PERIMETER EROSION BARRIER

EX ROW LT = VARIES



MATCH LINE STA 14+50.00

15+00

FAS 335
(CH 10)

16

17

18

19

POT Sta. 20+00.00

MATCH LINE STA 20+00.00

GUARDRAIL
REMOVAL

GUARDRAIL
REMOVAL

Ⓐ

437.5'

Ⓑ

Ⓐ

637.5'

Ⓑ

SN 038-0077

EX ROW RT = VARIES

LOCATION NO. 117
MAJOR COLLECTOR
ADT 1300 (2018)
DESIGN SPEED 40 MPH

MODEL Default
FILE Name: 2537_1-ShrPlan117-118.dgn



JOB = 2537.1	DESIGNED - CGF	REVISED -
FILE NAME = 2537_1-ShrPlan117-118.dgn	DRAWN - SJS	REVISED -
PLOT SCALE = 40,0000' / In.	CHECKED - THF	REVISED -
PLOT DATE = 4/1/2020	DATE - 01/23/2020	REVISED -

**IROQUOIS COUNTY
GUARDRAIL IMPROVEMENTS**

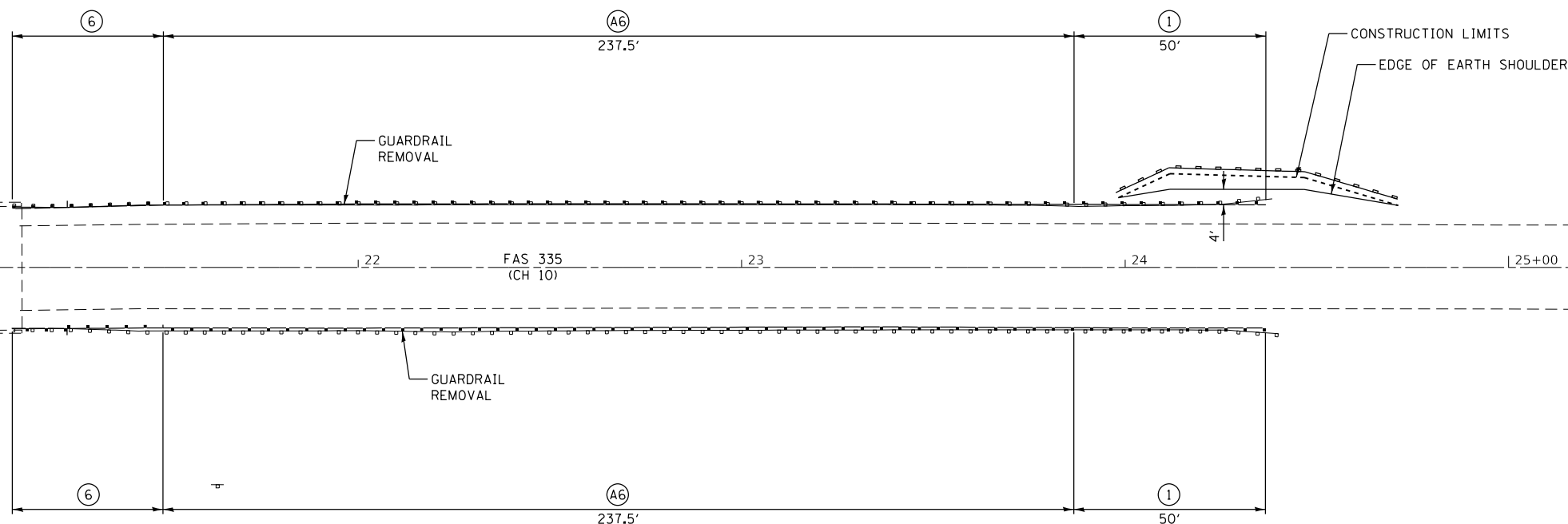
PLAN - LOCATION NO. 117

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			19-00350-00-SP	IROQUOIS
			CONTRACT NO. 87758	
		ILLINOIS	FED. AID PROJECT	



MATCH LINE STA 20+00.00



EX ROW

EX ROW

LEGEND	
①	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
A6	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
B6	STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS
---	PERIMETER EROSION BARRIER

LOCATION NO. 117 & 118			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	3+80.79	1402418.31	1051797.03
POT	20+00.00	1402426.44	1053416.21
POT	26+48.51	1402429.70	1054064.72

LOCATION NO. 117
 MAJOR COLLECTOR
 ADT 1300 (2018)
 DESIGN SPEED 40 MPH

MODEL Default
 FILE Name: 2537.1-Sht-Plan117-118.dgn



JOB = 2537.1	DESIGNED - CGF	REVISED -
FILE NAME = 2537.1-Sht-Plan117-118.dgn	DRAWN - SJS	REVISED -
PLOT SCALE = 40,0000' / In.	CHECKED - THF	REVISED -
PLOT DATE = 4/1/2020	DATE - 01/23/2020	REVISED -

**IROQUOIS COUNTY
 GUARDRAIL IMPROVEMENTS**

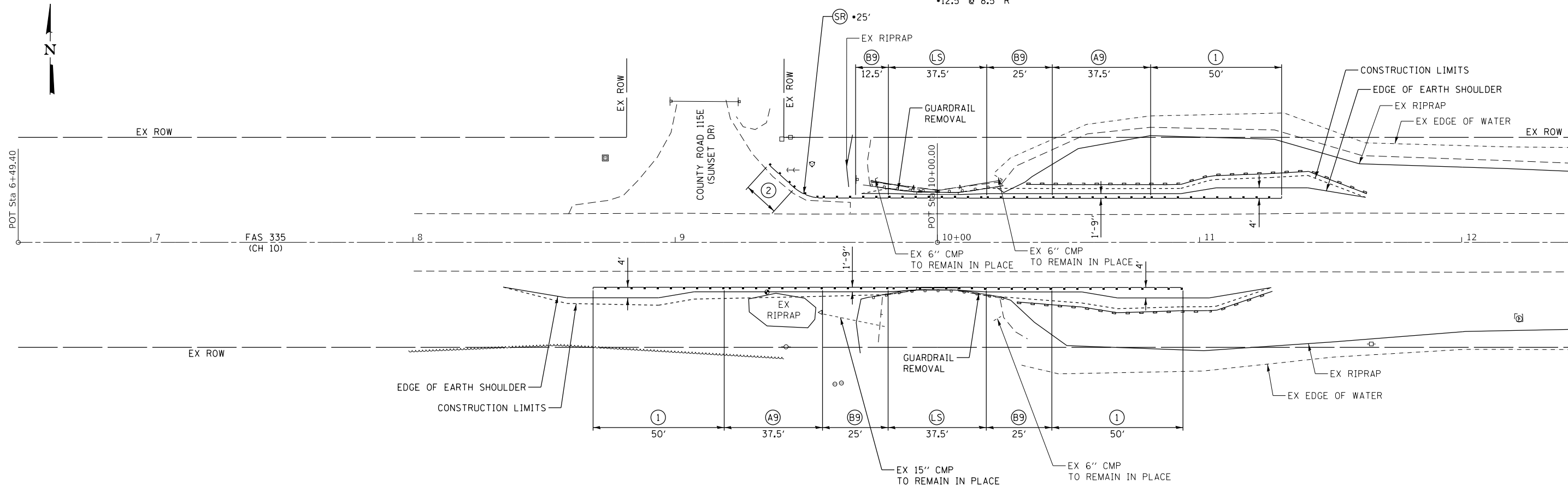
PLAN - LOCATION NO. 117

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19-00350-00-SP	IROQUOIS	44	31
CONTRACT NO. 87758				
		ILLINOIS	FED. AID PROJECT	

SEC 20, T24N, R10E, 2ND PM

•12.5' @ 8.5' R



SEC 29, T24N, R10E, 2ND PM

LEGEND	
①	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
②	TRAFFIC BARRIER TERMINAL, TYPE 2
A9	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
B9	STEEL PLATE BEAM GUARDRAIL, TYPE B, 9 FOOT POSTS
LS	LONG SPAN GUARDRAIL OVER CULVERT, 12 FOOT 6 INCH SPAN
SR	STEEL PLATE BEAM GUARDRAIL, (SHORT RADIUS)
---	PERIMETER EROSION BARRIER

CL LOCATION NO. 119			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+49.40	1402413.14	1049739.59
POT	10+00.00	1402414.30	1050090.18
POT	18+45.76	1402417.10	1050935.94

LOCATION NO. 119
 MAJOR COLLECTOR
 ADT 1300 (2018)
 DESIGN SPEED 50 MPH

MODEL: Default
 FILE NAME: 2537_1-Sht-Plan119.dgn



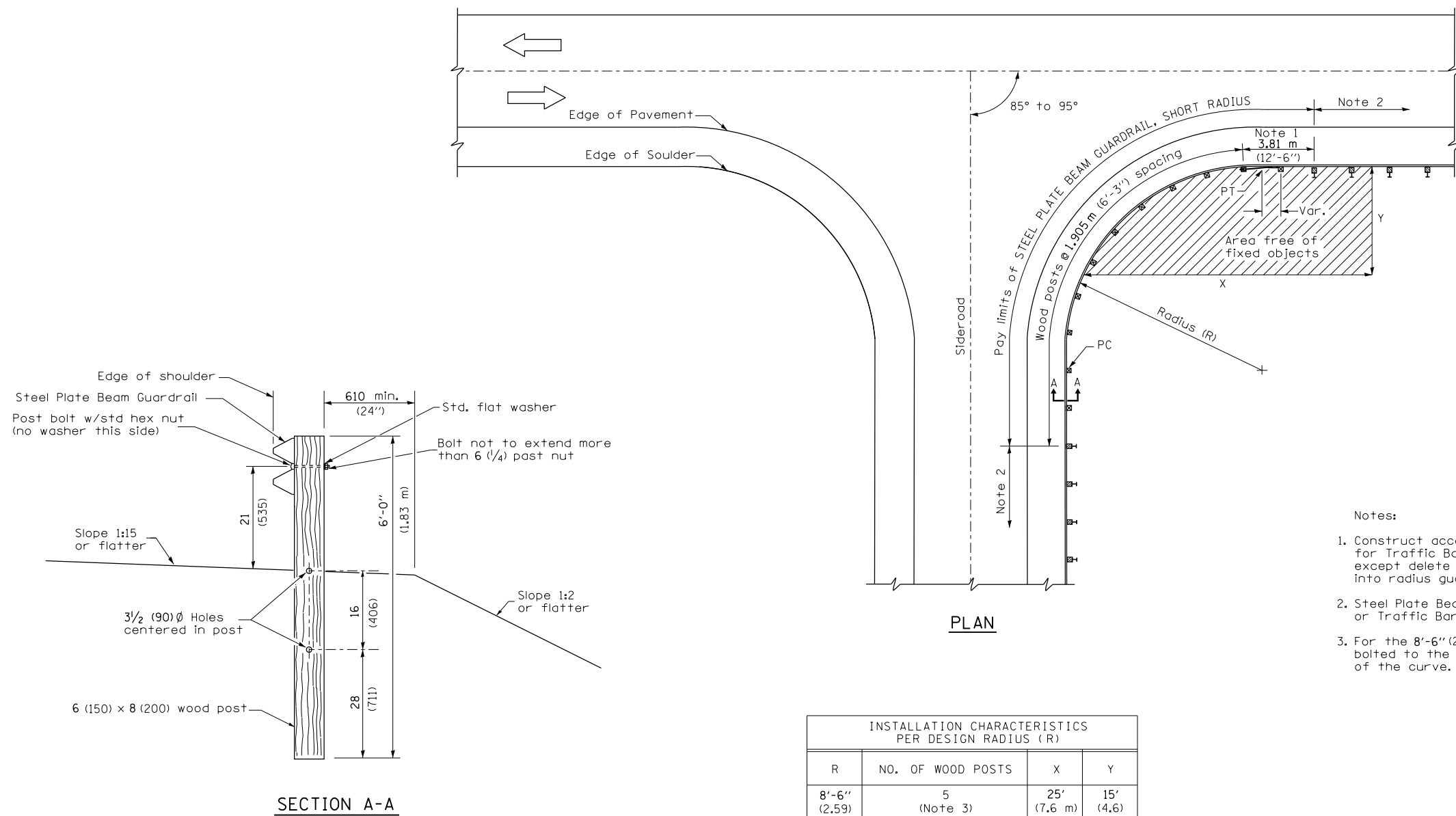
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PLOT SCALE = 40,0000' / 1in.	CHECKED - THF	REVISED -
PLOT DATE = 4/1/2020	DATE - 01/23/2020	REVISED -

**IROQUOIS COUNTY
 GUARDRAIL IMPROVEMENTS**

PLAN - LOCATION NO. 119

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			19-00350-00-SP	IROQUOIS
			CONTRACT NO. 87758	
		ILLINOIS	FED. AID PROJECT	

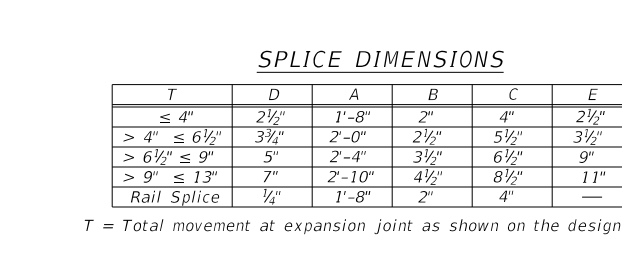
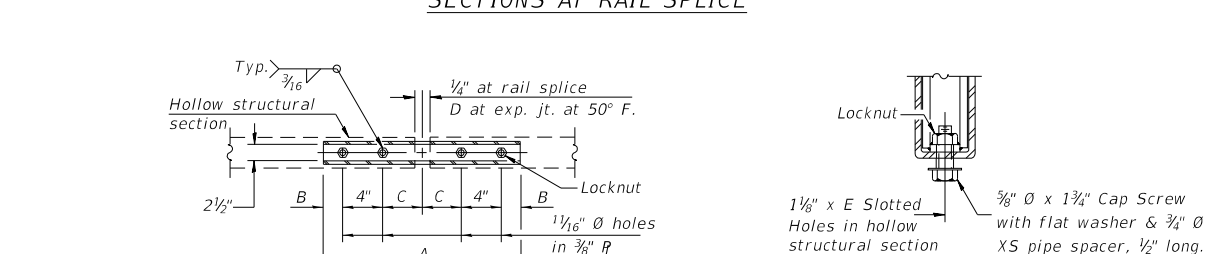
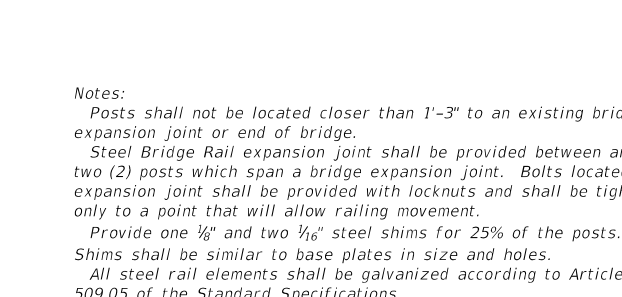
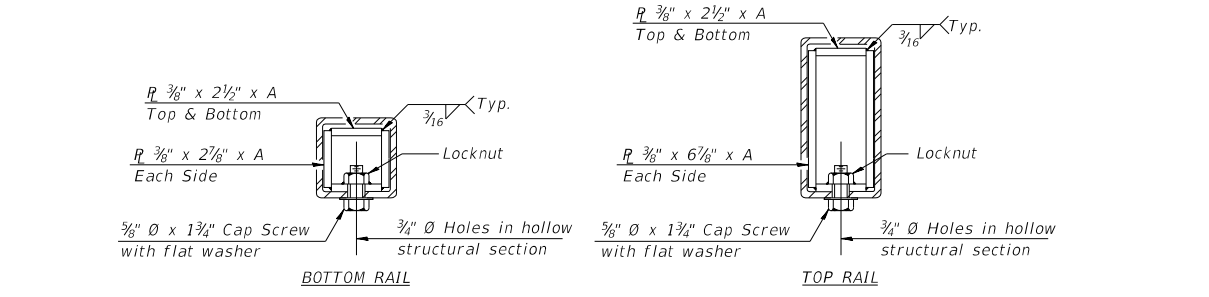
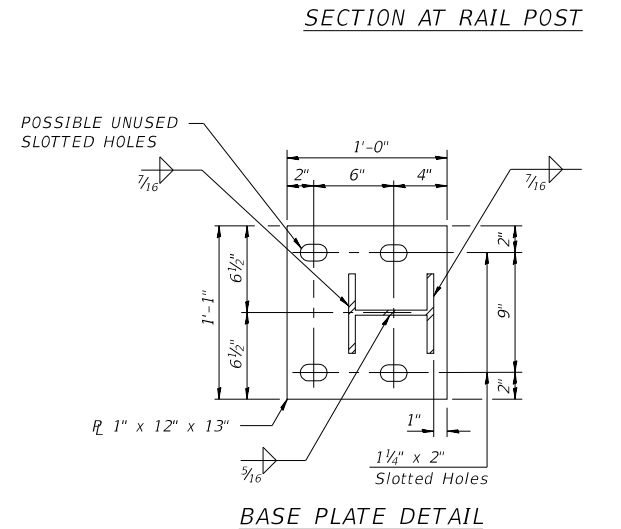
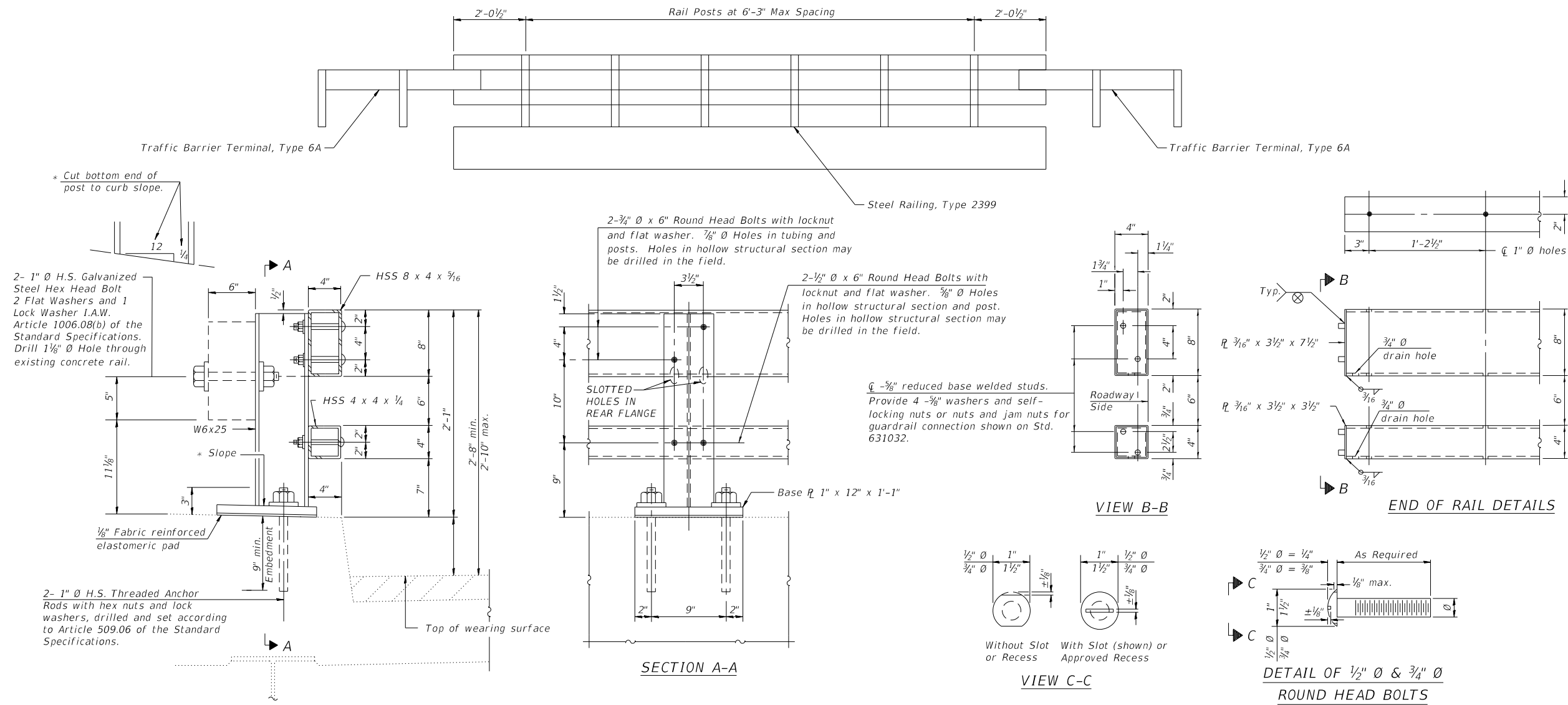


- Notes:
1. Construct according to Standard 631011 for Traffic Barrier Terminal Type 2, except delete end section and splice into radius guardrail.
 2. Steel Plate Beam Guardrail Type A, Type B, or Traffic Barrier Terminal as specified.
 3. For the 8'-6" (2.59 m) radius, the rail is not bolted to the post located at the midpoint of the curve.

INSTALLATION CHARACTERISTICS PER DESIGN RADIUS (R)			
R	NO. OF WOOD POSTS	X	Y
8'-6" (2.59)	5 (Note 3)	25' (7.6 m)	15' (4.6)
17'-0" (5.18)	6	30' (9.1 m)	15' (4.6)
25'-6" (7.77)	8	40' (12.2 m)	20' (6.1)
35'-0" (10.67)	11	50' (15.2 m)	20' (6.1)

GENERAL NOTES

All slope ratios are expressed as units of vertical displacement to units of horizontal displacement (V:H).
 All dimensions are in inches (millimeters) unless otherwise shown.



Notes:
 Posts shall not be located closer than 1'-3" to an existing bridge expansion joint or end of bridge.
 Steel Bridge Rail expansion joint shall be provided between any two (2) posts which span a bridge expansion joint. Bolts located at expansion joint shall be provided with locknuts and shall be tightened only to a point that will allow railing movement.
 Provide one 1/8" and two 1/16" steel shims for 25% of the posts. Shims shall be similar to base plates in size and holes.
 All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

SPLICE DIMENSIONS

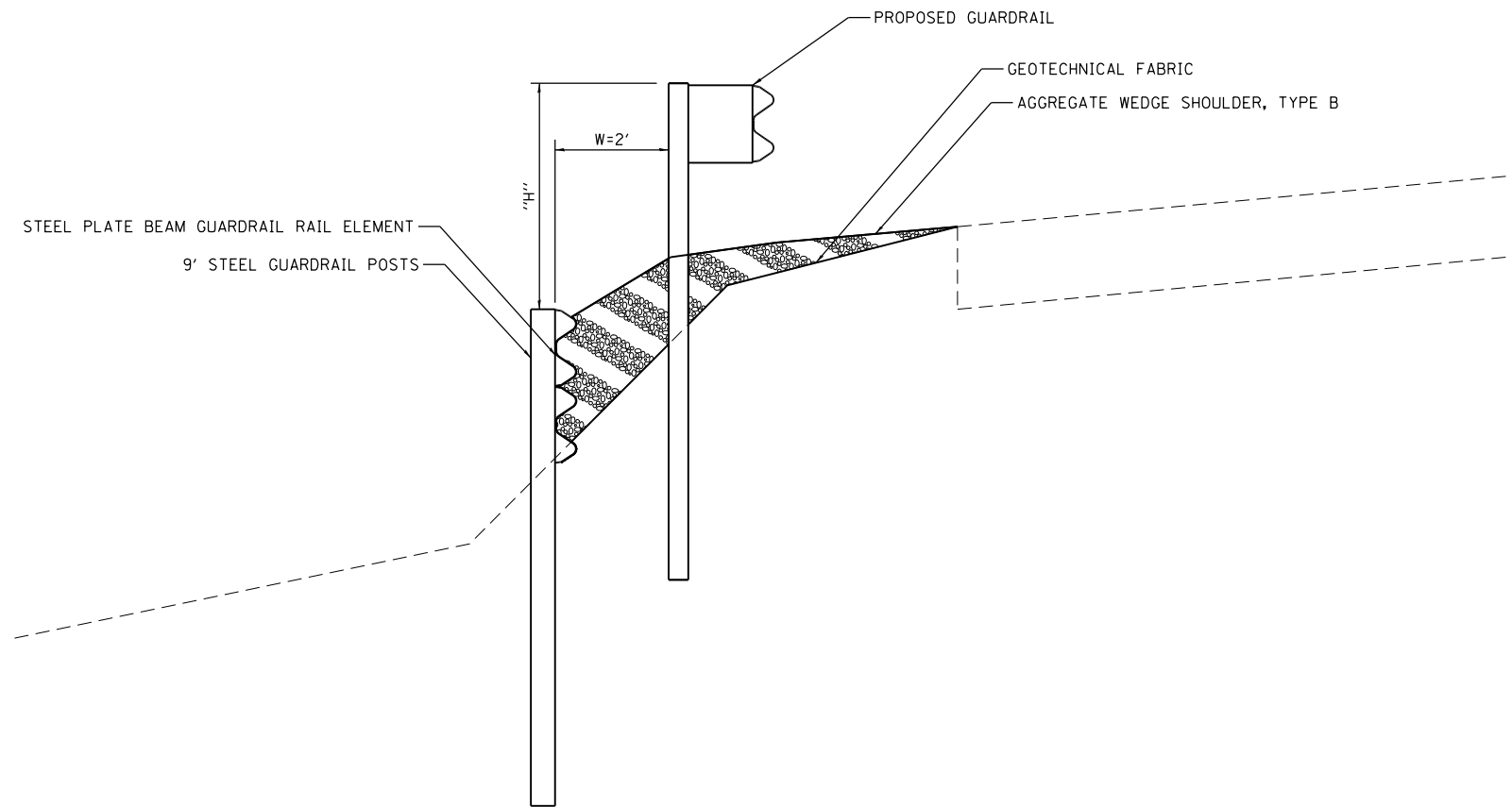
T	D	A	B	C	E
≤ 4"	2 1/2"	1'-8"	2"	4"	2 1/2"
> 4" ≤ 6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
> 6 1/2" ≤ 9"	5"	2'-4"	3 1/2"	6 1/2"	9"
> 9" ≤ 13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	—

T = Total movement at expansion joint as shown on the design plans.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type 2399	Foot	500

NOTE: SHEET BASED ON IDOT DRAWING R-31



RETAINING WALL, SPECIAL

GENERAL NOTES

THIS WORK SHALL BE DONE IN ACCORDANCE TO THE APPLICABLE PORTIONS OF SECTION 630 OF THE STANDARD SPECIFICATIONS.

POST SPACING SHALL BE 6'-3".

STEEL PLATE BEAM GUARDRAIL SHALL BE ACCORDING TO THE REQUIREMENTS OF AASHTO M 180, TYPE 1, CLASS A.

STEEL PLATE BEAM GUARDRAIL AND STEEL POSTS SHALL BE IN ACCORDANCE WITH ARTICLES 1006.23 AND 1006.25 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION MANUAL. ANY SALVAGE RAIL ELEMENTS AND POSTS THAT WERE NOT DAMAGED BY THE CONTRACTOR DURING THE REMOVAL MAY BE USED IN LIEU OF NEW RAIL ELEMENTS AND POSTS.

ALL SECTIONS OF GUARDRAIL SHALL BE BOLTED TOGETHER.

RAIL ELEMENTS SHALL BE BOLTED TO POST.

BOTTOM OF RAIL SHALL BE EMBEDDED INTO THE EARTH BENEATH THE FORESLOPE BETWEEN THE BOTTOM OF THE RAIL AND INTO THE EXISTING GROUND.

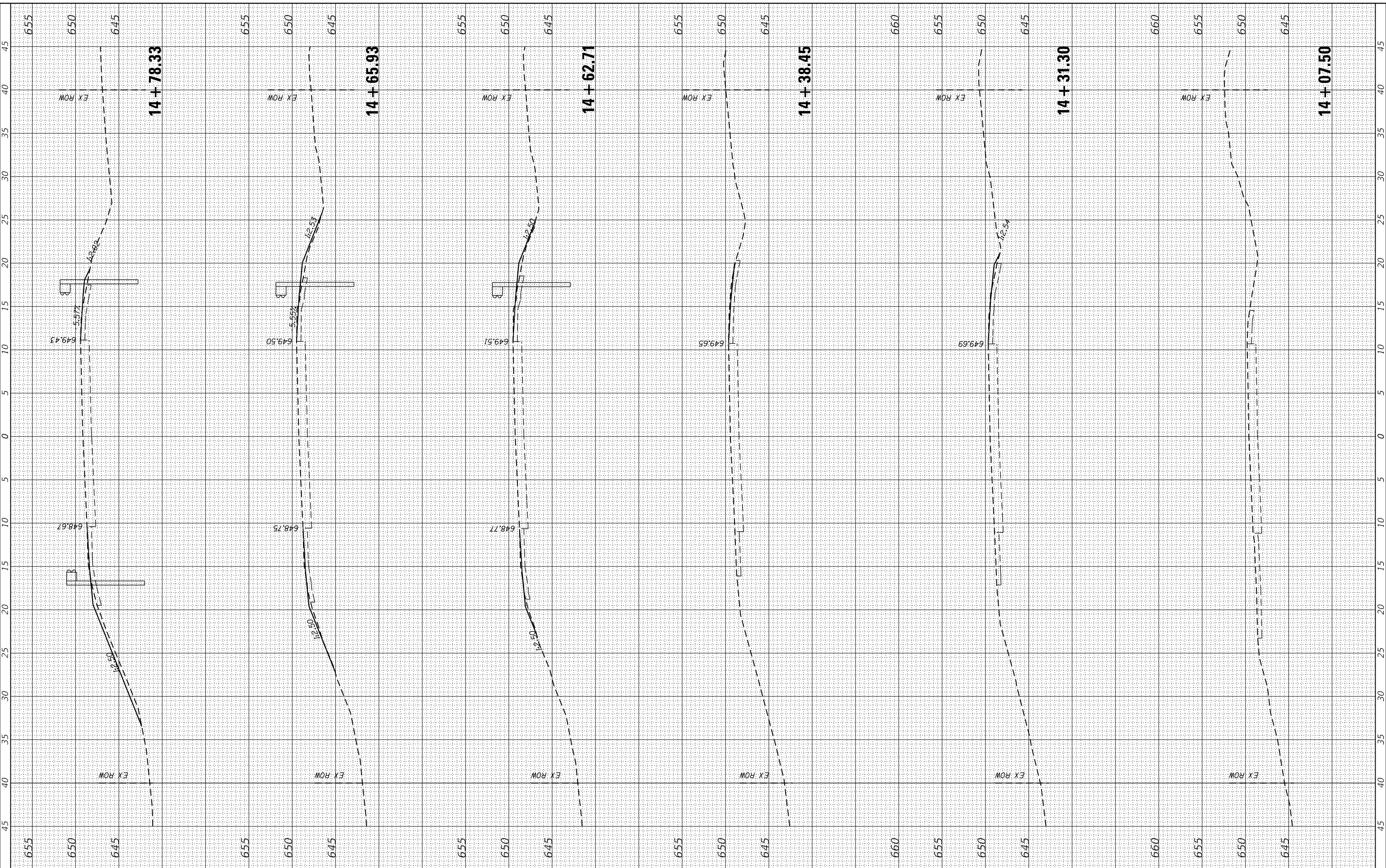
GEOTECHNICAL FABRIC SHALL BE PLACED BEHIND THE RAIL ELEMENT AND ON THE GROUND BEHIND THE EXISTING GUARDRAIL BEFORE PLACING THE AGGREGATE WEDGE SHOULDERS. THE INSTALLATION AND MATERIAL FOR GEOTECHNICAL FABRIC SHALL BE ACCORDING TO SECTION 210 OF THE STANDARD SPECIFICATIONS.

AGGREGATE SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR AGGREGATE WEDGE SHOULDER, TYPE B.

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL: Defaulr
FILE NAME: 2537.1-shk-xsec.dgn



CEC Cummins Engineering Corporation
Civil and Structural Engineering

JOB = 2537.1
FILE NAME = 2537.1-shk-xsec.dgn
PLOT SCALE = 10,000' / 1".
PLOT DATE = 4/11/2020

DESIGNED - CGF
DRAWN - CGF
CHECKED - THF
DATE - 2/18/20

REVISED -
REVISED -
REVISED -
REVISED -

**IROQUOIS COUNTY
GUARDRAIL IMPROVEMENTS**

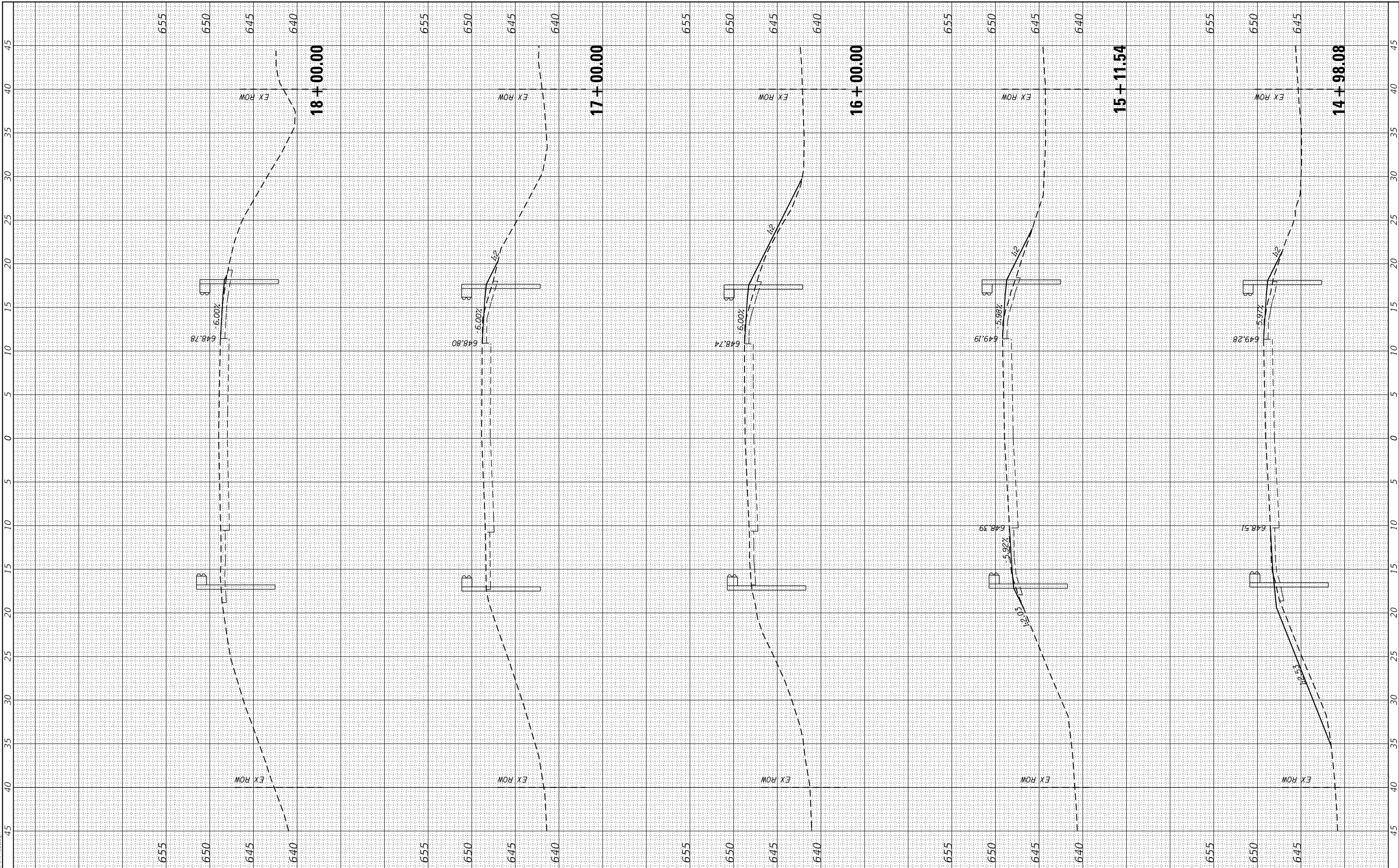
CROSS SECTIONS - LOCATION 93
SCALE: SHEET OF SHEETS STA. 14+07.50 TO STA. 14+78.33

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	19-00350-00-5P	IROQUOIS	44	36
CONTRACT NO. 87758				
ILLINOIS		FED. AID PROJECT		

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

MODEL: Defaulr
FILE NAME: 2537.1-shk-xsec.dwg



CEC Cummins Engineering Corporation
Civil and Structural Engineering

JOB = 2537.1
FILE NAME = 2537.1-shk-xsec.dwg
PLOT SCALE = 10,000' / In.
PLOT DATE = 4/11/2020

DESIGNED - CGF
DRAWN - CGF
CHECKED - THF
DATE - 2/18/20

REVISED -
REVISED -
REVISED -
REVISED -

**IROQUOIS COUNTY
GUARDRAIL IMPROVEMENTS**

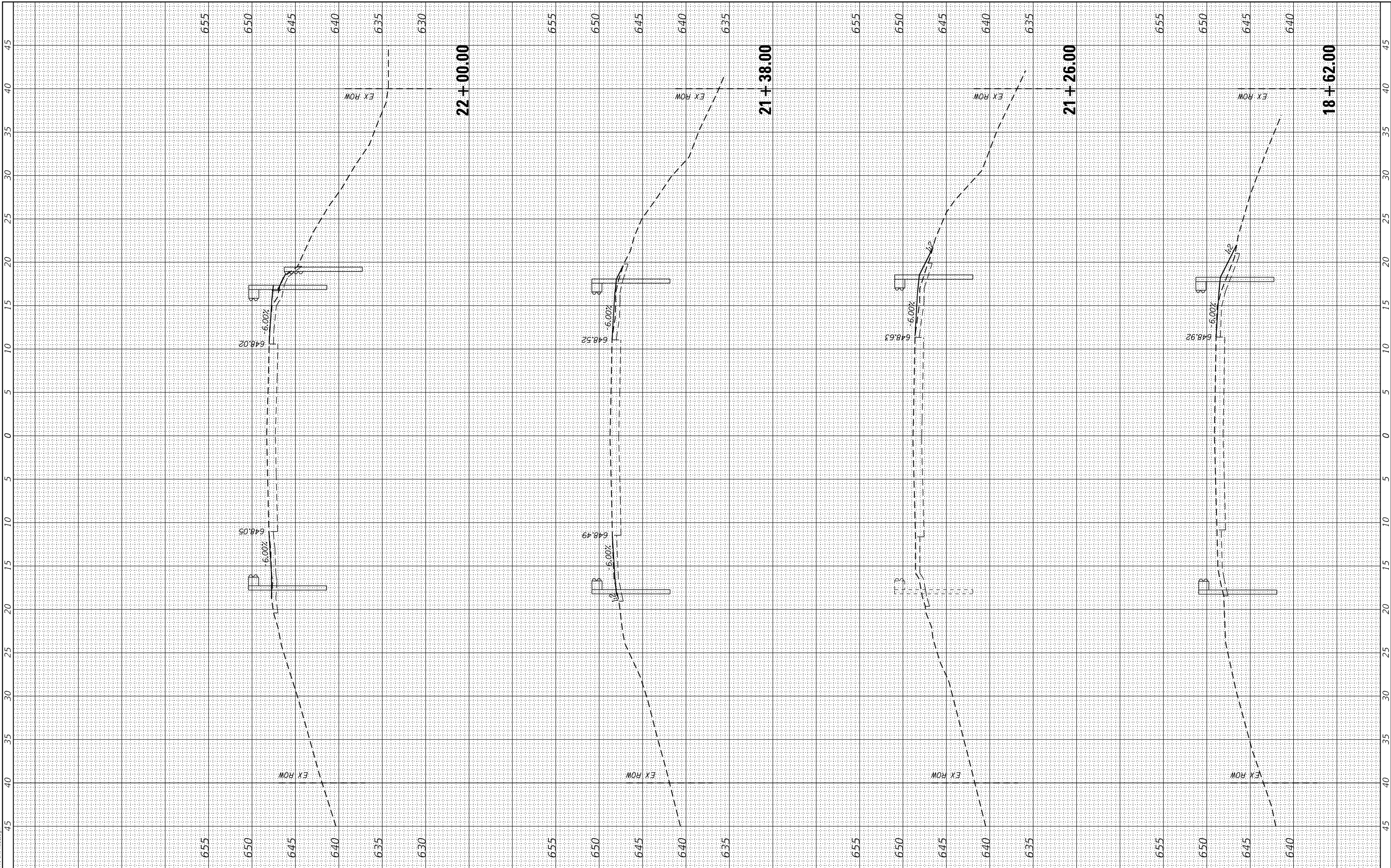
CROSS SECTIONS - LOCATION 93
SCALE: SHEET OF SHEETS STA. 14+98.08 TO STA. 18+00.00

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			44	37
CONTRACT NO. 87758				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL: Defleur
FILE NAME: 2537.1-shk-xsec.dgn



CEC Cummins Engineering Corporation
Civil and Structural Engineering

JOB = 2537.1
FILE NAME = 2537.1-shk-xsec.dgn
PLOT SCALE = 10,000' / In.
PLOT DATE = 4/11/2020

DESIGNED - CGF
DRAWN - CGF
CHECKED - THF
DATE - 2/18/20

REVISED -
REVISED -
REVISED -
REVISED -

**IROQUOIS COUNTY
GUARDRAIL IMPROVEMENTS**

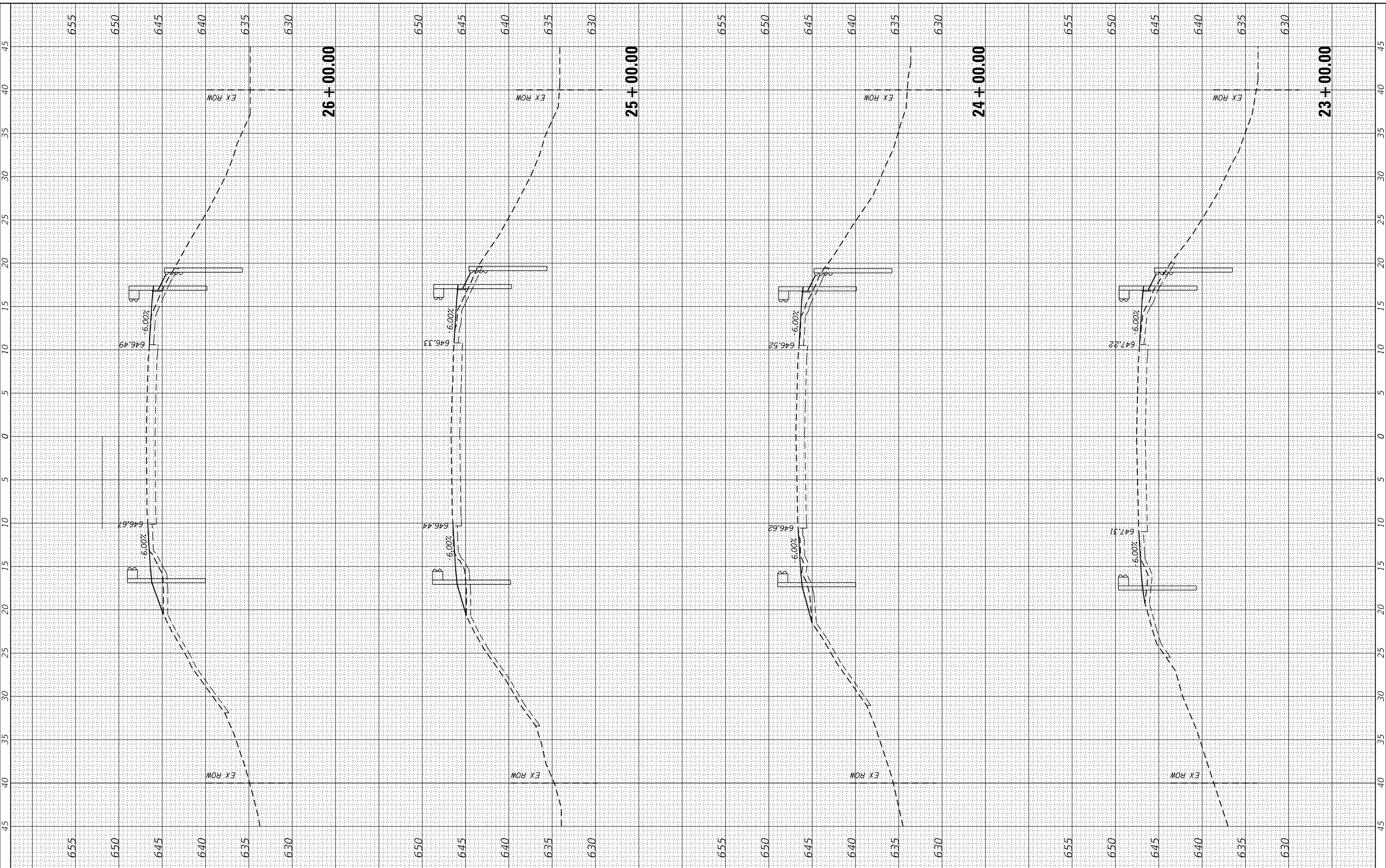
CROSS SECTIONS - LOCATION 93
SCALE: SHEET OF SHEETS STA. 18+62.00 TO STA. 22+00.00

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			44	38
CONTRACT NO. 87758				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

MODEL: Defnair
FILE NAME: 2537.1-shk-xsec.dwg



CEC Cummins Engineering Corporation
Civil and Structural Engineering

JOB = 2537.1
FILE NAME = 2537.1-shk-xsec.dwg
PLOT SCALE = 10,000' / In.
PLOT DATE = 4/11/2020

DESIGNED - CGF
DRAWN - CGF
CHECKED - THF
DATE - 2/18/20

REVISED -
REVISED -
REVISED -
REVISED -

**IROQUOIS COUNTY
GUARDRAIL IMPROVEMENTS**

CROSS SECTIONS - LOCATION 93

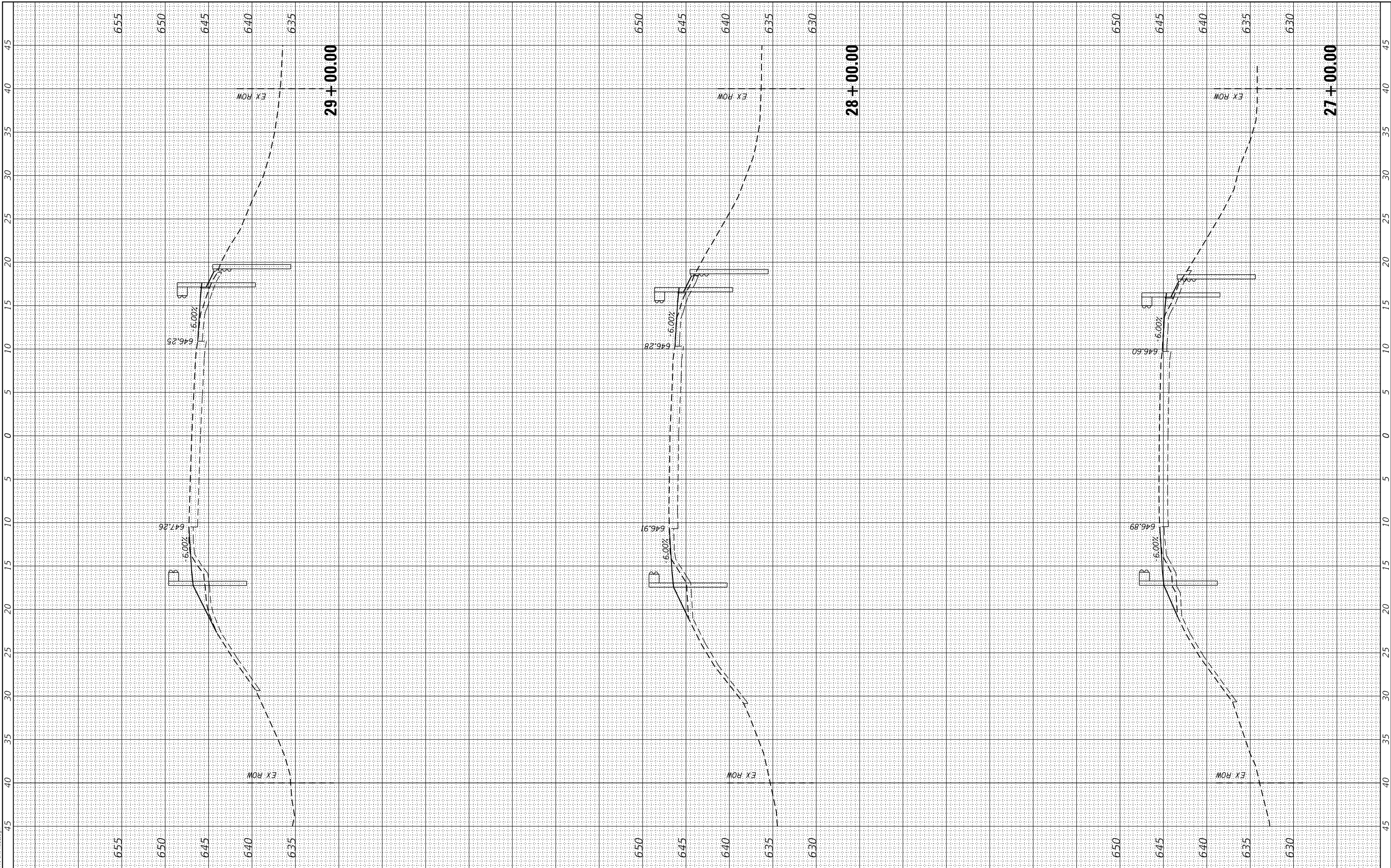
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VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			44	39
CONTRACT NO. 87758				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
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CEC Cummins Engineering Corporation
Civil and Structural Engineering

JOB = 2537.1
FILE NAME = 2537.1-shk-xsec.dwg
PLOT SCALE = 10,000' / 1".
PLOT DATE = 4/1/2020

DESIGNED - CGF
DRAWN - CGF
CHECKED - THF
DATE - 2/18/20

REVISED -
REVISED -
REVISED -
REVISED -

**IROQUOIS COUNTY
GUARDRAIL IMPROVEMENTS**

CROSS SECTIONS - LOCATION 93

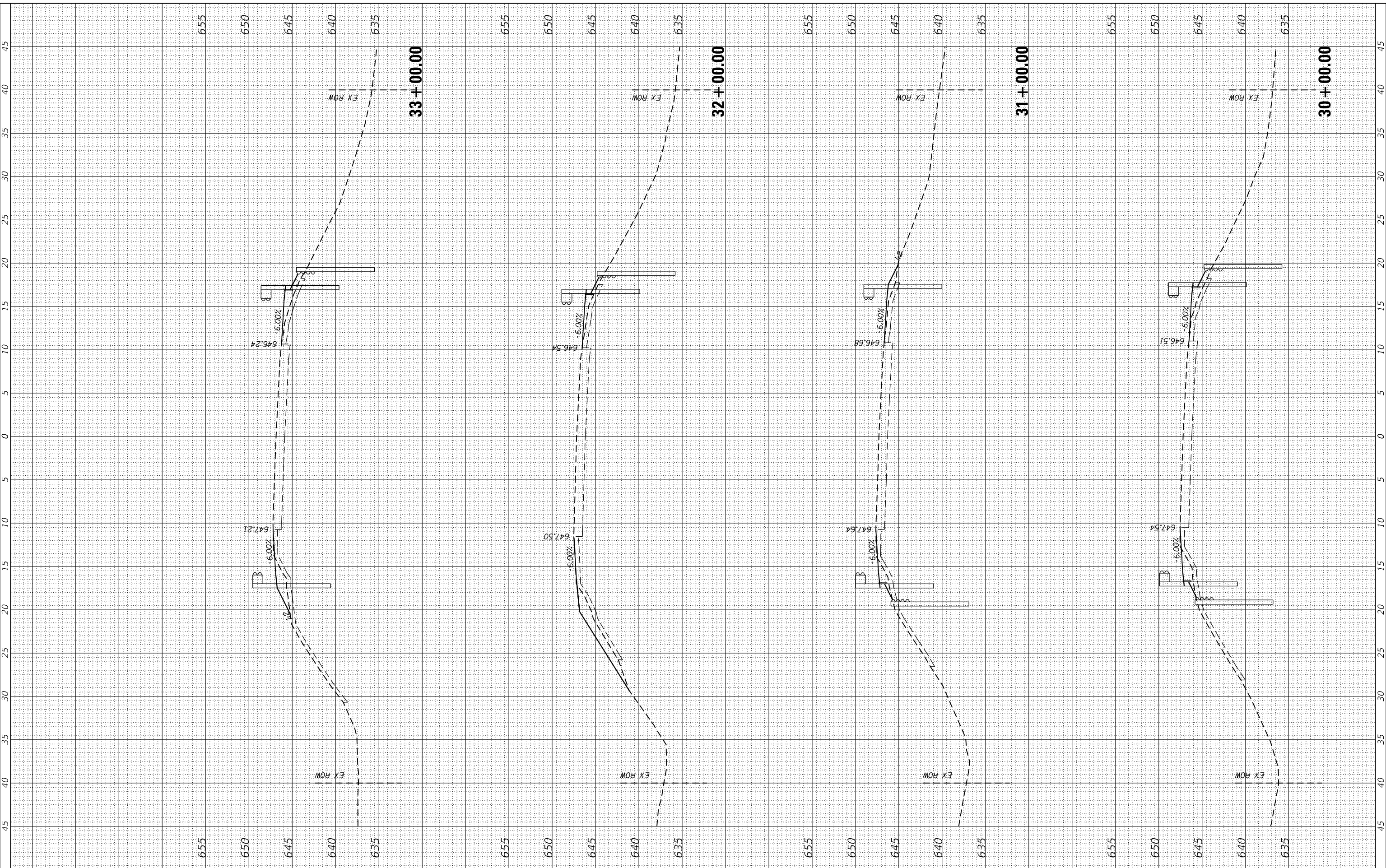
SCALE: SHEET OF SHEETS STA. 27+00.00 TO STA. 29+00.00

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			44	40
			CONTRACT NO. 87758	
		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

MODEL: Defn.dwg
FILE NAME: 2537.1-shk-xsec.dwg



CEC Cummins Engineering Corporation
Civil and Structural Engineering

JOB = 2537.1
FILE NAME = 2537.1-shk-xsec.dwg
PLOT SCALE = 10,000' / 1".
PLOT DATE = 4/11/2020

DESIGNED - CGF
DRAWN - CGF
CHECKED - THF
DATE - 2/18/20

REVISED -
REVISED -
REVISED -
REVISED -

**IROQUOIS COUNTY
GUARDRAIL IMPROVEMENTS**

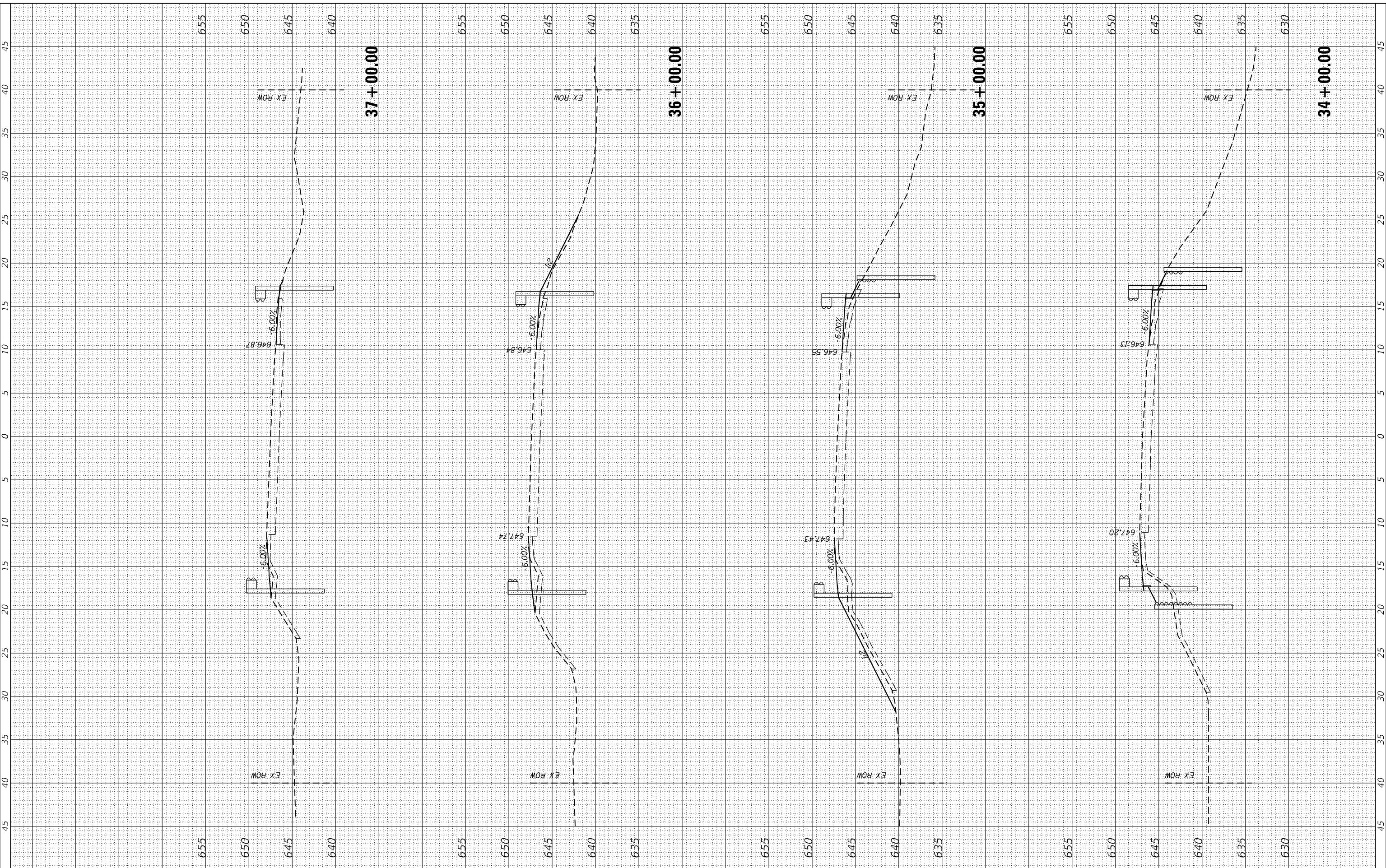
CROSS SECTIONS - LOCATION 93
SCALE: SHEET OF SHEETS STA. 30+00.00 TO STA. 33+00.00

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			44	41
CONTRACT NO. 87758				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
	AREAS CHECKED	

MODEL: Defn.dwg
FILE NAME: 2537.1-shk-xsec.dwg



CEC Cummins Engineering Corporation
Civil and Structural Engineering

JOB = 2537.1
FILE NAME = 2537.1-shk-xsec.dwg
PLOT SCALE = 10,000' / 1" = 1" = 100' = 10000
PLOT DATE = 4/11/2020

DESIGNED - CGF
DRAWN - CGF
CHECKED - THF
DATE - 2/18/20

REVISED -
REVISED -
REVISED -
REVISED -

**IROQUOIS COUNTY
GUARDRAIL IMPROVEMENTS**

CROSS SECTIONS - LOCATION 93

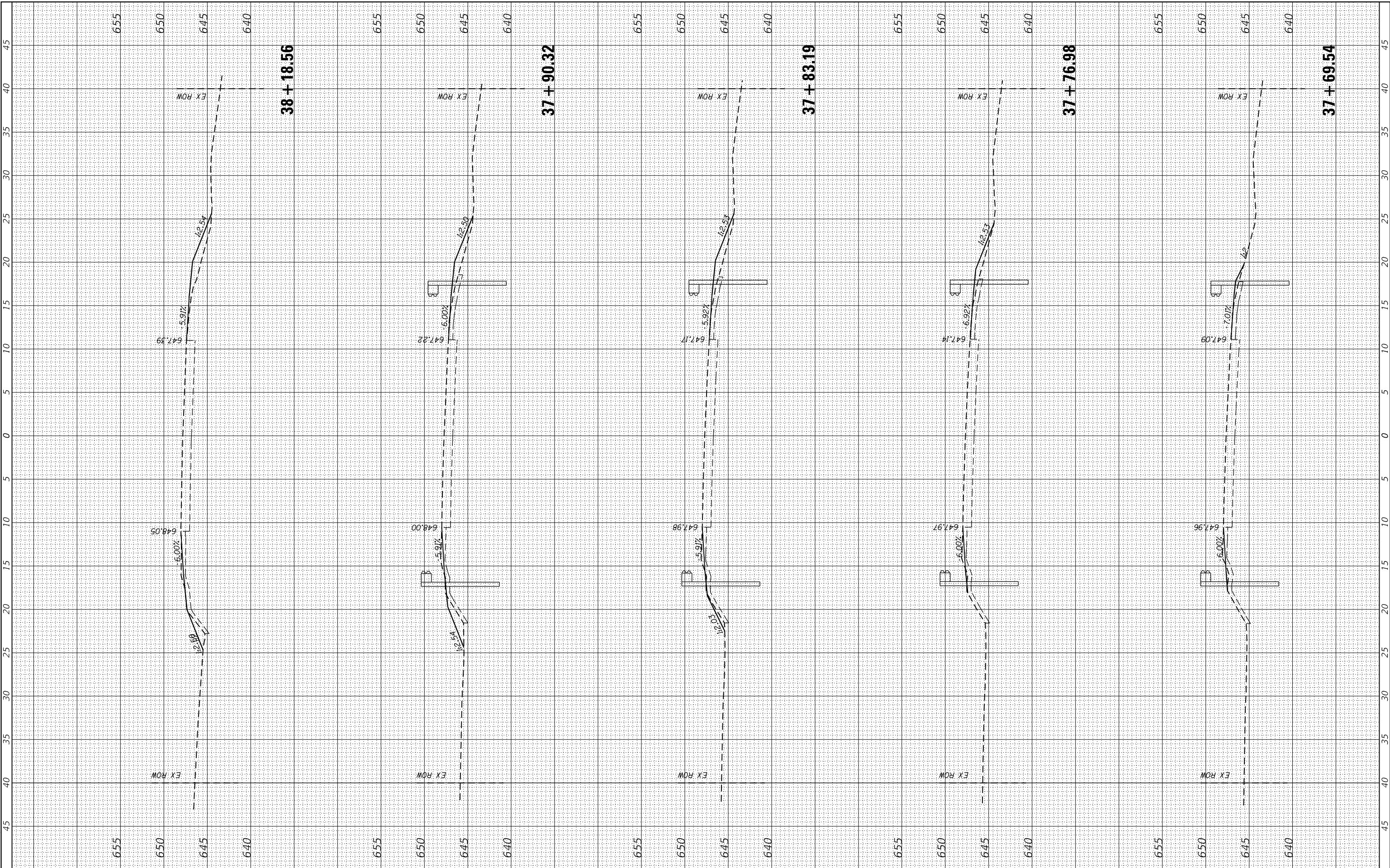
SCALE: SHEET OF SHEETS STA. 34+00.00 TO STA. 37+00.00

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			44	42
CONTRACT NO. 87758				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	DATE
NOTE BOOK	TEMPLATE	
	AREAS CHECKED	

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	DATE
NOTE BOOK	TEMPLATE	
	AREAS CHECKED	

MODEL: D:\dgn\iroquois\2537.1-shk-xsec.dgn
FILE NAME: 2537.1-shk-xsec.dgn



CEC Cummins Engineering Corporation
Civil and Structural Engineering

JOB = 2537.1
FILE NAME = 2537.1-shk-xsec.dgn
PLOT SCALE = 10,000" / 1 in.
PLOT DATE = 4/11/2020

DESIGNED - CGF
DRAWN - CGF
CHECKED - THF
DATE - 2/18/20

REVISED -
REVISED -
REVISED -
REVISED -

**IROQUOIS COUNTY
GUARDRAIL IMPROVEMENTS**

CROSS SECTIONS - LOCATION 93

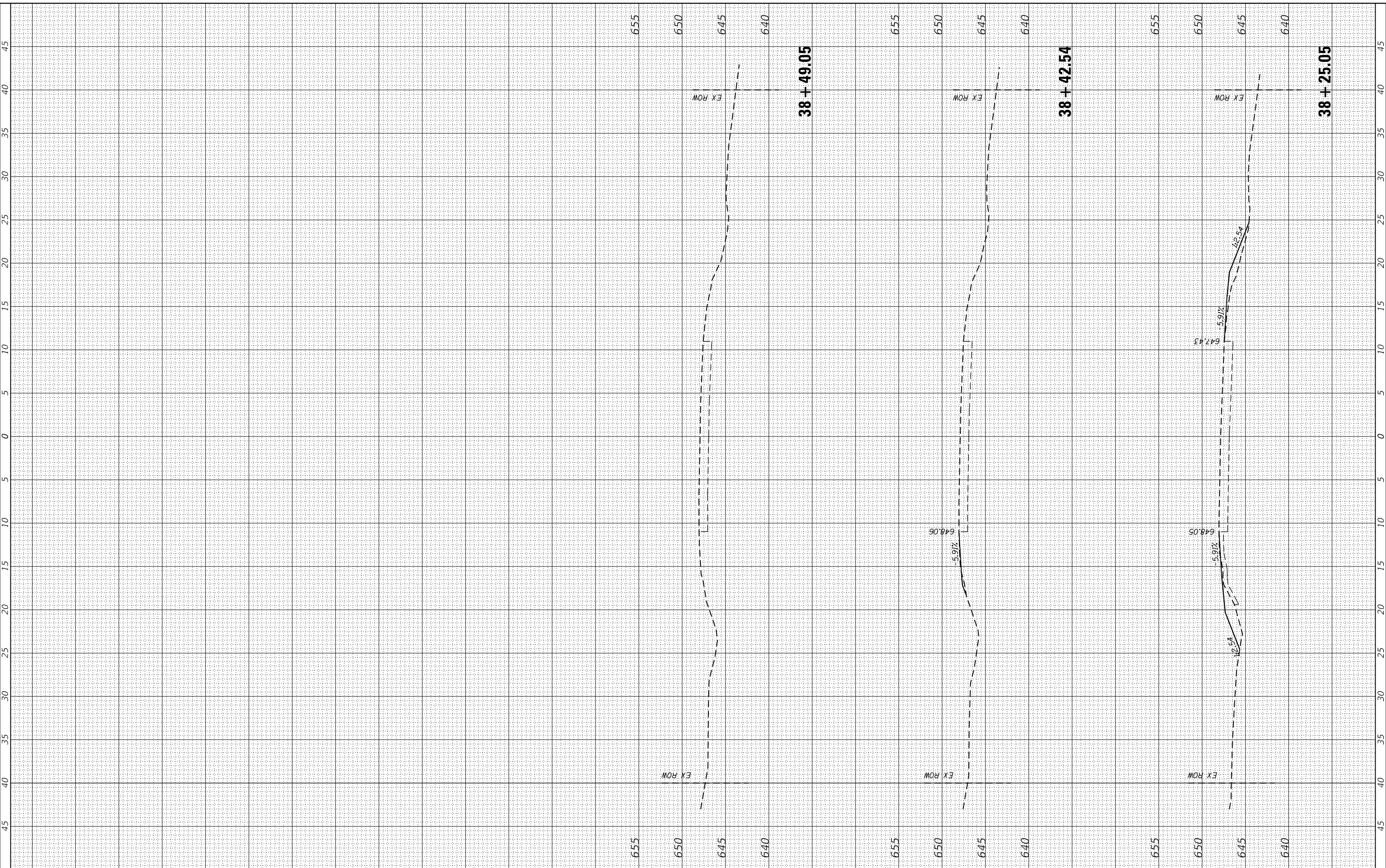
SCALE: SHEET OF SHEETS STA. 37+69.54 TO STA. 38+18.56

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			44	43
			CONTRACT NO. 87758	
		ILLINOIS	FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE
NOTE BOOK	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE
NOTE BOOK	TEMPLATE		
	AREAS CHECKED		

MODEL: Defn.dwg
FILE NAME: 2537.1-shk-xsec.dwg



CEC Cummins Engineering Corporation
Civil and Structural Engineering

JOB = 2537.1
FILE NAME = 2537.1-shk-xsec.dwg
PLOT SCALE = 10,000' / 1".
PLOT DATE = 4/11/2020

DESIGNED - CGF
DRAWN - CGF
CHECKED - THF
DATE - 2/18/20

REVISED -
REVISED -
REVISED -
REVISED -

**IROQUOIS COUNTY
GUARDRAIL IMPROVEMENTS**

CROSS SECTIONS - LOCATION 93
SCALE: SHEET OF SHEETS STA. 38+25.05 TO STA. 38+49.05

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			44	44
CONTRACT NO. 87758				
ILLINOIS FED. AID PROJECT				