

DEPARTMENT OF TRANSPORTATION  
**PLANS FOR PROPOSED  
 FEDERAL-AID PROJECT  
 HSIP FUNDS**

VARIOUS ROUTES  
 SECTION 18-00125-00-SP  
 PROJECT NO. S2WH(995)  
 LOGAN COUNTY  
 C-96-025-19

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00125-00-SP	LOGAN	33	1
FEDERAL AID PROJECT	ILLINOIS	CONTRACT NO. 93761		

**UTILITY CONTACTS:**

**UTILITY TYPE:**

ELECTRIC  
 MENARD ELECTRIC COOP  
 ATT: BRADY SMITH  
 PHONE: (217) 632-7746

**UTILITY TYPE:**

ELECTRIC  
 AMEREN CIPS (NORTH)  
 ATT: MARTIN FULLER  
 PHONE: (618) 301-5327

**UTILITY TYPE:**

ELECTRIC  
 PRAIRIE POWER, INC.  
 ATT: WILL PLATT /ENG DEPT  
 PHONE: (217) 245-6161

**UTILITY TYPE:**

FIBER OPTIC  
 METRO COMMUNICATIONS  
 ATT: JASON KOONCE  
 PHONE: (217) 728-3605

**UTILITY TYPE:**

FIBER OPTIC  
 MEDIACOM  
 ATT: DAVID BRUST  
 PHONE: (217) 243-4293

**UTILITY TYPE:**

WIND  
 SUGAR CREEK WIND ONE LLC  
 ATT: CHRIS EDWARDS  
 PHONE: (423) 754-2649

**UTILITY TYPE:**

GAS PIPELINE  
 PANHANDLE EASTERN PIPE LINE  
 ATT: MATT DONALDSON  
 EMAIL: MATTHEW.DONALDSON@ENERGYTRANSFER.COM

**UTILITY TYPE:**

TELEPHONE  
 ATT / T (TRANSMISSION)  
 ATTN: KENNETH COLWELL  
 PHONE: (630) 383-9249

**UTILITY TYPE:**

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

**UTILITY TYPE:**

TELEPHONE  
 ATT/DISTRIBUTION  
 ATT: G11629@att.com

**UTILITY TYPE:**

COMMUNICATIONS  
 LEVEL3 (CENTURYLINK)  
 ATT: NETWORK RELOCATIONS  
 PHONE: (877) 366-8344

**UTILITY TYPE:**

COMMUNICATIONS /INTERNET  
 WINDSTREAM KDL/MCLEOD USA  
 ATT: LOCATE DESK  
 PHONE: (800) 289-1901

**UTILITY TYPE:**

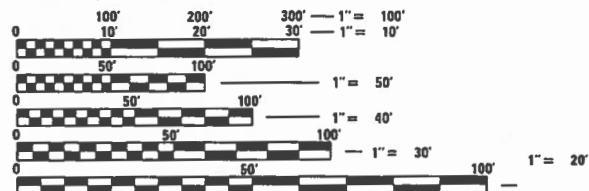
WATER/SEWER  
 VILLAGE OF BROADWELL  
 ATT: MARK SHORT  
 PHONE: (217) 737-4780

**UTILITY TYPE:**

WATER/SEWER  
 VILLAGE OF ELKHART  
 ATT: LYLE FOUT  
 PHONE: (217) 801-4146

**UTILITY TYPE:**

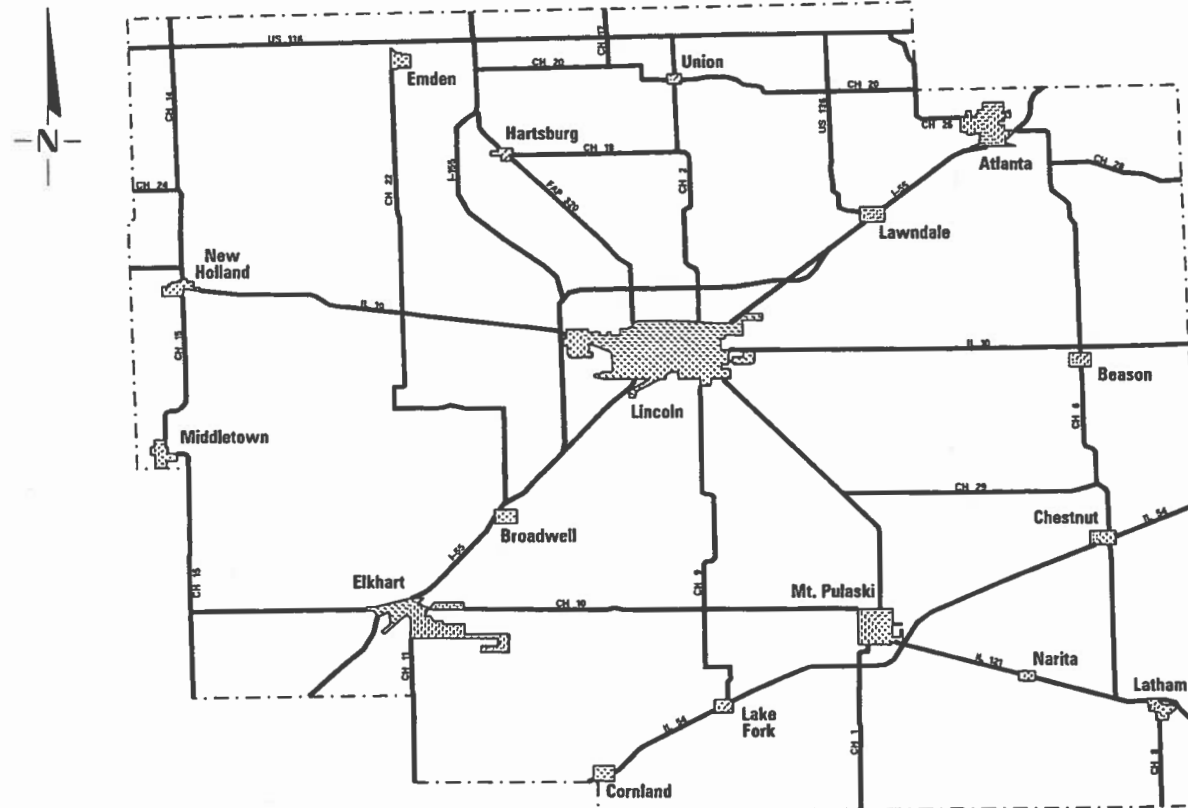
WATER /SEWER  
 VILLAGE OF MIDDLETOWN  
 ATT: MIKE VIRGIL  
 PHONE: (217) 445-2537



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. 93761



LAYOUT  
 LOGAN COUNTY  
 COUNTY WIDE  
 (NOT TO SCALE)



*Kimberly S. Cummins* 1/08/21  
 ILLINOIS PROFESSIONAL NO. 56816  
 (Expires 11/30/21)



STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

APPROVED January 8 2021  
*[Signature]*  
 LOGAN COUNTY ENGINEER

PASSED January 26 2021  
*[Signature]*  
 DISTRICT SIX ENGINEER OF  
 LOCAL ROADS AND STREETS

RELEASED FOR  
 BID BASED ON  
 LIMITED REVIEW January 26 2021  
*[Signature]*  
 REGION FOUR ENGINEER

PRINTED BY THE AUTHORITY  
 OF THE STATE OF ILLINOIS

INDEX OF SHEETS

<u>SHEET NO.</u>	<u>TITLE</u>
1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, AND ENTRANCE DETAILS
3-4	SUMMARY OF QUANTITIES
5	TYPICAL CROSS SECTIONS
6-9	SCHEDULES OF QUANTITIES
10	LOCATION MAP
11-32	PLAN SHEETS
33	STEEL RAILING, TYPE 2399

GENERAL NOTES

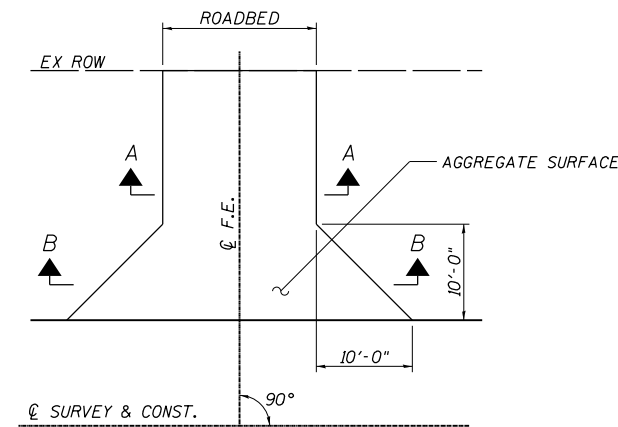
- THIS PROJECT IS LOCATED ON VARIOUS ROUTES IN LOGAN COUNTY. THE WORK INCLUDED IN THE SECTION CONSISTS OF VARIOUS TYPES OF GUARDRAIL REMOVAL, REPLACEMENT, AND ALL OTHER WORK NECESSARY TO COMPLETE THE PROJECT.
- NO MATERIAL SHALL BE LEFT ON OR NEAR THE ROADWAY DURING NON-WORKING HOURS.
- ANY NECESSARY 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.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 FLAGGER 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.
- 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.
- EXISTING VEGETATION AND GROUND SURFACE SHALL BE THOROUGHLY DISTURBED BEFORE FILL IS PLACED. ALL FILL SHALL BE PLACED, SHAPED, AND COMPACTED BEFORE GUARDRAIL IS INSTALLED.
- 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.
- 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.
- ALL STEEL PLATE BEAM GUARDRAIL RAIL ELEMENTS, POSTS AND HARDWARE THAT ARE NOT REINCORPORATED INTO THE PROJECT SHALL BECOME THE PROPERTY OF THE CONTRACTOR. THIS WORK WILL INCLUDE THE REMOVAL, HAULING, AND DISPOSAL OF ALL MATERIAL AND SHALL BE INCLUDED IN THE COST OF THE REMOVAL ITEMS.
- 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.
- 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.
- TEMPORARY SEEDING OPERATION SHALL BE COMPLETED WITHIN 3 DAYS OF COMPLETING GUARDRAIL WORK.

APPLICATION RATES USED IN QUANTITY CALCULATIONS  
 TEMPORARY EROSION CONTROL SEEDING \_ \_ \_ \_ \_ 100 LBS/ACRE

COMMITMENTS  
 NONE AT THIS TIME

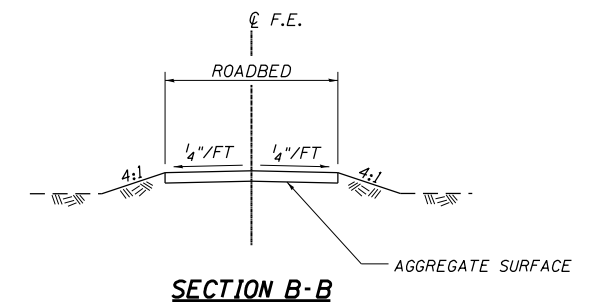
LIST OF ILLINOIS DOT HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
542401-04	METAL FLARED END SECTION FOR PIPE CULVERTS
630001-12	STEEL PLATE BEAM GUARDRAIL
630101-10	STRONG POST GUARDRAIL ATTACHED TO CULVERT
630106-02	LONG-SPAN GUARDRAIL OVER CULVERT
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631031-17	TRAFFIC BARRIER TERMINAL, TYPE 6
631032-09	TRAFFIC BARRIER TERMINAL, TYPE 6A
631046-04	TRAFFIC BARRIER TERMINAL, TYPE 10
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY FROM EDGE OF PAVEMENT
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" AWAY
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 21-9	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21
BLR 26-3	STEEL PLATE BEAM GUARDRAIL 29" HEIGHT
BLR 27-1	TRAFFIC BARRIER TERMINAL TYPE 5A



**ENTRANCE DETAIL**

SEE ENTRANCE SCHEDULE FOR LOCATIONS AND WIDTHS



**SECTION B-B**

**LOGAN COUNTY  
 GUARDRAIL IMPROVEMENTS**

**INDEX OF SHEETS, HIGHWAY STANDARDS,  
 GENERAL NOTES, AND ENTRANCE DETAILS**

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00125-00-SP	LOGAN	33	2
CONTRACT NO. 93761				

ILLINOIS FED. AID PROJECT

JOB = 2578.1	DESIGNED - CGF	REVISED -
FILE NAME = 2578.1-eh1-gen.dgn	DRAWN - SJS	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - THF	REVISED -
PLOT DATE = 1/8/2021	DATE - 8/05/2020	REVISED -

SUMMARY OF QUANTITIES

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

CODE NO	ITEM	UNIT	TOTAL QUANTITY	0021 RURAL
Δ 20400800	FURNISHED EXCAVATION	CU YD	2,625	2,625
Δ 21400100	GRADING AND SHAPING DITCHES	FOOT	361	361
Δ 25100630	EROSION CONTROL BLANKET	SQ YD	939	939
Δ 28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	191	191
Δ 28000305	TEMPORARY DITCH CHECKS	FOOT	40	40
Δ 28000400	PERIMETER EROSION BARRIER	FOOT	4,617	4,617
Δ 28000500	INLET AND PIPE PROTECTION	EACH	4	4
Δ 40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	92	92
Δ 50105220	PIPE CULVERT REMOVAL	FOOT	156	156
50900200	STEEL RAILING, TYPE 2399	FOOT	334	334
54261724	STEEL FLARED END SECTIONS 24"	EACH	1	1
Δ 542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	30	30
Δ 542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	96	96
Δ 542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	154	154
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	937.5	937.5
63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	1,425.0	1,425.0

• SEE SPECIAL PROVISIONS  
 Δ SPECIALTY ITEMS


SUMMARY OF QUANTITIES

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

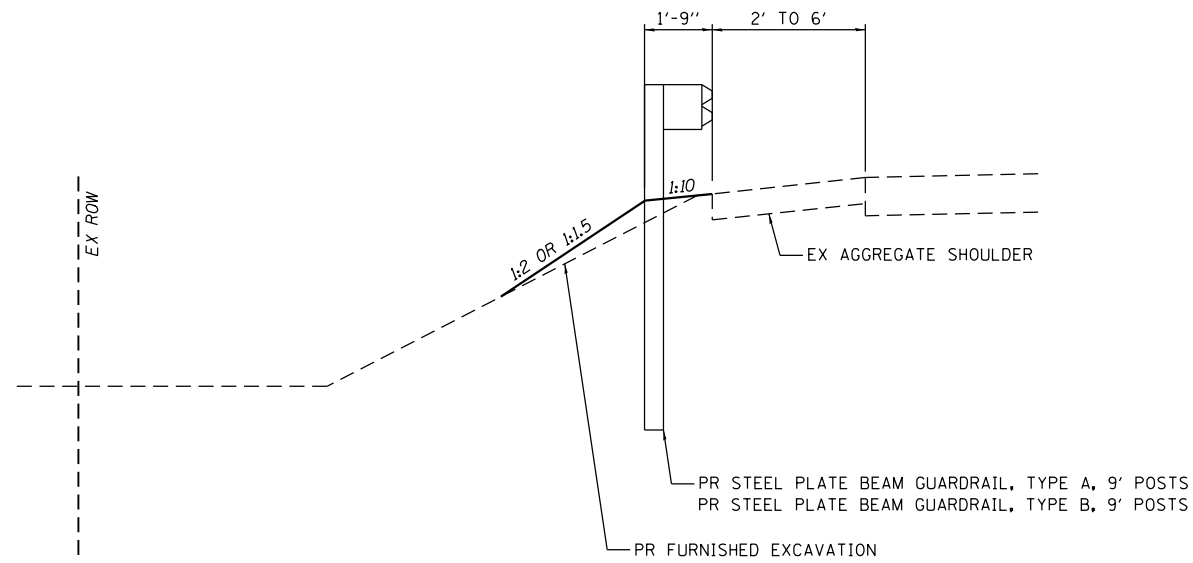
CODE NO	ITEM	UNIT	TOTAL QUANTITY	0021 RURAL
63000007	STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS	FOOT	37.5	37.5
63000009	STEEL PLATE BEAM GUARDRAIL, TYPE B, 9 FOOT POSTS	FOOT	200.0	200.0
63000030	STRONG POST GUARDRAIL ATTACHED TO CULVERT	FOOT	150.0	150.0
63000350	LONG-SPAN GUARDRAIL OVER CULVERT, 12 FT 6 IN SPAN	FOOT	75.0	75.0
63000360	LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN	FOOT	87.5	87.5
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	5	5
63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	22	22
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	23	23
63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	8	8
63100105	TRAFFIC BARRIER TERMINAL, TYPE 10	EACH	1	1
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	87	87
63200310	GUARDRAIL REMOVAL	FOOT	5,312.5	5,312.5
67100100	MOBILIZATION	L SUM	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	87	87
78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	338	338

• SEE SPECIAL PROVISIONS  
 Δ SPECIALTY ITEMS

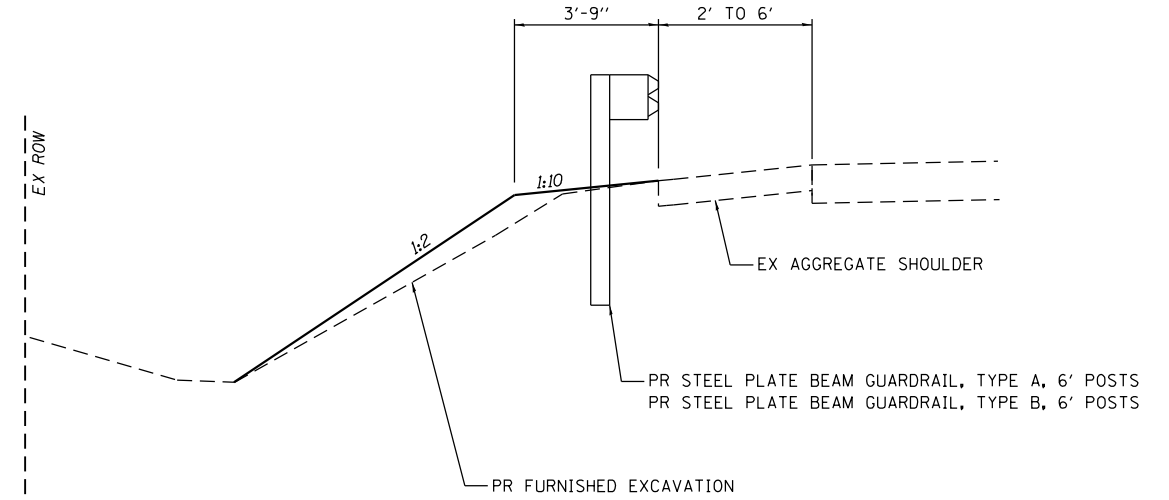
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 <b>Cummins Engineering Corporation</b> Civil and Structural Engineering	JOB = 2578.1	DESIGNED - CGF	REVISED -	<b>LOGAN COUNTY                  GUARDRAIL IMPROVEMENTS</b>	<b>SUMMARY OF QUANTITIES</b>			ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE NAME = 2578.1-shl-gen.dgn	DRAWN - CGF	REVISED -		18-00125-00-SP	LOGAN	33	3				
	PLOT SCALE = 100.0000' / in.	CHECKED - THF	REVISED -		CONTRACT NO. 93761							
	PLOT DATE = 1/8/2021	DATE - 9/03/2020	REVISED -		SCALE:	SHEET OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				

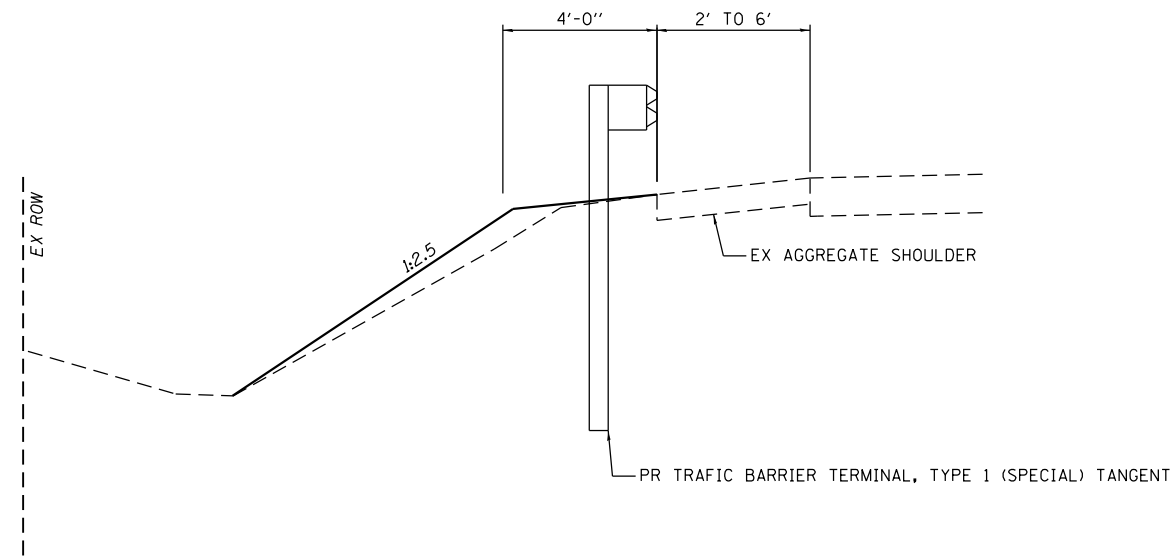




**PROPOSED TYPICAL SECTION #1**  
 GUARDRAIL WITH 9' POSTS  
 (LOCATIONS 3, 5, 6, 8, 9, 10, 11, 16, 17, 19, 21, 36, 44, 46, 49, 51, 53, 55)



**PROPOSED TYPICAL SECTION #2**  
 GUARDRAIL WITH 6' POSTS  
 (LOCATIONS 5, 8, 9, 10, 11, 12, 19, 22, 44, 46, 47, 49, 55, 56)



**PROPOSED TYPICAL SECTION #3**  
 TRAFFIC BARRIER TERMINAL, TYPE 1  
 (LOCATIONS 3, 5, 6, 8, 9, 10, 11, 12, 16, 17, 19, 21, 22, 31, 34, 36, 37, 44, 46, 47, 49, 51, 52, 53, 55, 56)

MODEL Default  
 FILE Name: 18-00125-00-SP-18-00125-00-SP-18-00125-00-SP.dgn

Location Number	Quadrant (NE, SE, NW, SW, LEFT, RIGHT)	FURNISHED EXCAVATION
		CU YD
3	LEFT, RIGHT	120
5	SW, SE	20
6	LEFT, RIGHT	100
8	SW	5
9	SW, NW, NE	365
10	LEFT, RIGHT	95
11	LEFT, RIGHT	20
16	NW, SW, NE, SE	225
17	NW, NE, SE, SW	185
19	NE, NW, SE, SW	80
21	NW, SW, NE, SE	95
34	LEFT	80
36	LEFT	335
37	RIGHT	30
44	NW, SW, NE, SE	315
46	SE, SW, NE, NW	60
47	SW, NE, SE	60
49	NW, SW, NE, SE	40
51	NW, SW, NE, SE	75
52	NW, SW, NE, SE	75
53	NW, SW, NE, SE	230
55	SW, SE	15
<b>TOTAL</b>		<b>2,625</b>

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"	STEEL FLARED END SECTIONS 24"	PIPE CULVERT REMOVAL
		FOOT	FOOT	FOOT	EACH	FOOT
10	LEFT	30		44	1	40
53	SW		96			60
	SE			110		56
<b>TOTAL</b>		<b>30</b>	<b>96</b>	<b>154</b>	<b>1</b>	<b>156</b>

Location Number	Quadrant (NE, SE, NW, SW, LEFT, RIGHT)	SEEDING, CLASS 2 (SPECIAL)
		ACRE
3	LEFT	0.055
	RIGHT	0.059
5	SW	0.023
	SE	0.013
6	LEFT	0.051
	RIGHT	0.060
8	SW	0.003
9	SW	0.078
	NW	0.018
	NE	0.075
10	LEFT	0.048
	RIGHT	0.030
11	LEFT	0.025
	RIGHT	0.020
16	NW	0.033
	SW	0.004
	NE	0.036
	SE	0.043
17	NW	0.023
	NE	0.036
	SE	0.052
	SW	0.040
19	NE	0.019
	NW	0.047
	SE	0.001
	SW	0.002
21	NW	0.026
	SW	0.048
	NE	0.021
	SE	0.017
34	LEFT	0.041
36	LEFT	0.195
37	RIGHT	0.041
44	NW	0.058
	SW	0.049
	NE	0.032
	SE	0.060
46	SW	0.007
	SE	0.006
	NW	0.032
	NE	0.003
47	SW	0.005
	NE	0.012
	SE	0.012
49	NW	0.008
	SW	0.016
	NE	0.007
	SE	0.023

Location Number	Quadrant (NE, SE, NW, SW, LEFT, RIGHT)	SEEDING, CLASS 2 (SPECIAL)
		ACRE
51	NW	0.016
	SW	0.029
	NE	0.028
	SE	0.026
52	NW	0.006
	SW	0.030
	NE	0.018
	SE	0.023
53	NW	0.015
	SW	0.025
	NE	0.016
	SE	0.034
55	SW	0.006
	SE	0.021

TOTAL 1.91  
 ROUNDED TOTAL 2.00

Location Number	LOCATION	TYPE	WIDTH	AGGREGATE SURFACE COURSE, TYPE B
			FOOT	TON
			FOOT	TON
3	LEFT	FE	40	41
10	LEFT	FE	20	18
56	RIGHT	FE	30	32
<b>TOTAL</b>				<b>92</b>

MODEL: Default  
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JOB = 2578.1  
 FILE NAME = 2578.1-00-SP-18-00125-00-SP-1-2ht-schedule.dgn  
 PLOT SCALE = 2.0000 1/16"  
 PLOT DATE = 1/8/2021

DESIGNED - CGF  
 DRAWN - CGF  
 CHECKED - THF  
 DATE - 9/03/2020

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**LOGAN COUNTY  
 GUARDRAIL IMPROVEMENTS**

**SCHEDULES OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00125-00-SP	LOGAN	33	6
<b>CONTRACT NO. 93761</b>				
ILLINOIS FED. AID PROJECT				

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	EROSION CONTROL BLANKET
		FOOT	POUND	FOOT	EACH	FOOT	SQ YD
3	LEFT	286	5.5				
	RIGHT	276	5.9				
5	SW		2.3				
	SE	137	1.3				
6	LEFT	198	5.1				
	RIGHT	150	6.0	8		67	
8	SW	25	0.3				
9	SW	138	7.8				
	NW	45	1.8				
	NE	156	7.5				
10	LEFT	33	4.8		1	52	
	RIGHT	142	3.0				
11	LEFT	234	2.5				
	RIGHT	184	2.0				
16	NW		3.3				
	SW		0.4				27
	NE		3.6				77
	SE	26	4.3				78
17	NW	90	2.3				
	NE	139	3.6				
	SE	36	5.2	8		59	
	SW	133	4.0				
19	NE	116	1.9				
	NW	136	4.7				
	SE		0.1				
	SW	18	0.2				
21	NW		2.6				
	SW		4.8	8		83	
	NE		2.1				
	SE		1.7	8		37	
34	LEFT	163	4.1				119
36	LEFT	163	19.5				
37	RIGHT	146	4.1				163
44	NW		5.8				130
	SW	134	4.9				
	NE	99	3.2				
	SE	97	6.0		1	26	203
46	SW	60	0.7				
	SE	20	0.6				
	NW	103	3.2				
	NE	17	0.3				
47	SW	36	0.5				27
	NE		1.2				
	SE		1.2				
49	NW	74	0.8				
	SW		1.6				
	NE		0.7				
	SE		2.3				

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	EROSION CONTROL BLANKET
		FOOT	POUND	FOOT	EACH	FOOT	SQ YD
51	NW	83	1.6				
	SW	102	2.9				
	NE	112	2.8				
	SE	91	2.6				115
52	NW	60	0.6				
	SW		3.0				
	NE	126	1.8				
	SE		2.3	8		37	
53	NW	99	1.5				
	SW		2.5		1		
	NE		1.6				
	SE		3.4		1		
55	SW	47	0.6				
	SE	87	2.1				
TOTAL		4,617	190.6	40	4	361	939
ROUNDED TOTAL			191				

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 FILE NAME: 2578.1-2578.1-Logan\_Co\_PEL\CADD\Schedules\2578.1-2578.1-schedules.dgn



JOB = 2578.1  
 FILE NAME = 2578.1-2578.1-schedules.dgn  
 PLOT SCALE = 2.0000' / 1in.  
 PLOT DATE = 1/8/2021

DESIGNED - CGF  
 DRAWN - CGF  
 CHECKED - THF  
 DATE - 9/03/2020

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**LOGAN COUNTY  
GUARDRAIL IMPROVEMENTS**

**SCHEDULES OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00125-00-SP	LOGAN	33	7
			CONTRACT NO. 93761	
ILLINOIS FED. AID PROJECT				

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	LONG-SPAN GUARDRAIL OVER CULVERT, 12 FT 6 IN SPAN	LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN	STRONG POST GUARDRAIL ATTACHED TO CULVERT	STEEL RAILING, TYPE 2399	TBT TY 1 (SPECIAL) TANGENT	TBT TYPE 2	TBT TYPE 5A	TBT TYPE 5A (SPECIAL)	TBT TYPE 6	TBT TYPE 6A	TBT TYPE 10	GUARDRAIL REMOVAL	GUARDRAIL REMOVAL SPECIAL	GUARDRAIL REFLECTORS, TYPE A	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL BLOCKS
										50'											
		FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FOOT	FOOT	EACH	EACH	EACH
3	LEFT		25.0					37.5	87.5	2					2			87.5	8	2	
	RIGHT		25.0					37.5	87.5	2					2			87.5	8	2	
5	NW	37.5								1							37.5		4	1	5
	SW									1							37.5			1	5
	NE									1							37.5			1	5
	SE		37.5							1							37.5		4	1	5
6	LEFT		25.0		50.0	37.5				2							225.0		4	2	
	RIGHT		25.0		50.0	37.5				2							225.0		4	2	
8	NW	75.0								1		1					37.5		4	1	
	SW		37.5							1		1					37.5		4		
	NE	12.5								1		1					37.5		4	1	
	SE	75.0								1		1					37.5		4	1	
9	SW									1				1			75.0		4	1	
	SE	25.0												1			50.0		4		
	NW		87.5											1			75.0		4		
	NE									1				1			75.0		4	1	
10	LEFT		100.0		50.0	43.75				1							75.0		4	1	
	RIGHT		12.5	25.0	25.0	43.75				2							87.5		4	2	
11	LEFT		37.5							2					2			75.0	8	2	
	RIGHT	37.5								2					2			75.0	8	2	
12	NW	25.0								1				1			112.5		4	1	
	SE	25.0								1				1			112.5		4	1	
16	NW		12.5							1				1		1	62.5		4	1	
	SW		37.5								1				1		37.5		4		
	NE									1				1			62.5		4	1	
	SE		12.5							1				1			62.5		4	1	
17	NW									1				1					4	1	
	NE									1				1					4	1	
	SE		50.0					37.5		1				1					4	1	
	SW		12.5					37.5		1				1					4	1	
19	NE		25.0							1		1					87.5		4	1	
	NW									1		1					100.0		4	1	
	SE	112.5								1		1					175.0		4	1	
	SW	12.5								1		1					87.5		4	1	
20	LEFT																100.0				
21	NW		12.5							1							37.5		4	1	5
	SW		62.5							1							37.5		4	1	5
	NE		62.5							1							37.5		4	1	5
	SE		12.5							1							37.5		4	1	5
22	SW	37.5								1				1			125.0		4	1	
	NE	37.5								1				1			125.0		4	1	
31	NW									1									13	1	154
	SW									1									4	1	50
	NE									1									13	1	154
	SE									1									4	1	50
34	LEFT									2							100.0			2	
36	LEFT		237.5							2							325.0		4	2	
37	RIGHT									2							37.5			2	

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 PLOT DATE = 1/11/2021

DESIGNED - CGF  
 DRAWN - CGF  
 CHECKED - THF  
 DATE - 9/03/2020

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**LOGAN COUNTY  
 GUARDRAIL IMPROVEMENTS**

**SCHEDULES OF QUANTITIES**

SCALE:      SHEET      OF      SHEETS      STA.      TO      STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00125-00-SP	LOGAN	33	8
CONTRACT NO. 93761				
ILLINOIS FED. AID PROJECT				



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	LONG-SPAN GUARDRAIL OVER CULVERT, 12 FT 6 IN SPAN	LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN	STRONG POST GUARDRAIL ATTACHED TO CULVERT	STEEL RAILING, TYPE 2399	TBT TY 1 (SPECIAL) TANGENT	TBT TYPE 2	TBT TYPE 5A	TBT TYPE 5A (SPECIAL)	TBT TYPE 6	TBT TYPE 6A	TBT TYPE 10	GUARDRAIL REMOVAL	GUARDRAIL REMOVAL SPECIAL	GUARDRAIL REFLECTORS, TYPE A	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL BLOCKS
										50'											
		FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	EACH	EACH	EACH	EACH	EACH	EACH	EACH	FOOT	FOOT	EACH	EACH	EACH
44	NW		75.0							1		1					100.0		4	1	
	SW		25.0							1		1					125.0		4	1	
	NE		25.0							1		1					37.5		4	1	
	SE			12.5						2	1		1				75.0		4	2	
46	SW	25.0								1							62.5		4	1	5
	SE		75.0								1						50.0		4		5
	NW									1							50.0			1	5
	NE		75.0								1						62.5		4		5
47	NW	37.5								1		1					75.0		4	1	
	SW	25.0								1		1					37.5		4	1	
	NE	25.0								1		1					37.5		4	1	
	SE	50.0								1		1					75.0		4	1	
49	NW	50.0								1							37.5		4	1	5
	SW		12.5							1							37.5		4	1	5
	NE	12.5								1							37.5		4	1	5
	SE		50.0							1							37.5		4	1	5
51	NW		12.5							1		1					37.5		4	1	
	SW									1		1					37.5		4	1	
	NE									1		1					37.5		4	1	
	SE		12.5							1		1					37.5		4	1	
52	NW									1				1			75.0		4	1	
	SW									1				1			75.0		4	1	
	NE									1				1			75.0		4	1	
	SE									1				1			75.0		4	1	
53	NW		12.5							1							37.5		4	1	5
	SW									1							37.5			1	5
	NE									1							37.5			1	5
	SE		12.5							1							37.5		4	1	5
55	NW	25.0								1		1					37.5		4	1	
	SW		87.5							1		1					150.0		4	1	
	NE				25.0						1		1				50.0		4		
	SE	25.0								1		1					37.5		4	1	
56	NW									1				1			62.5		4	1	
	SW	100.0								1				1			162.5		4	1	
	NE	50.0								1				1			162.5		4	1	
	SE									1				1			62.5		4	1	
TOTAL		937.5	1,425.0	37.5	200.0	75.0	87.5	150.0	334.0	87	5	22	2	23	8	1	5,312.5	325.0	338	87	508
ROUNDED TOTAL									334												

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DRAWN - CGF  
CHECKED - THF  
DATE - 9/03/2020

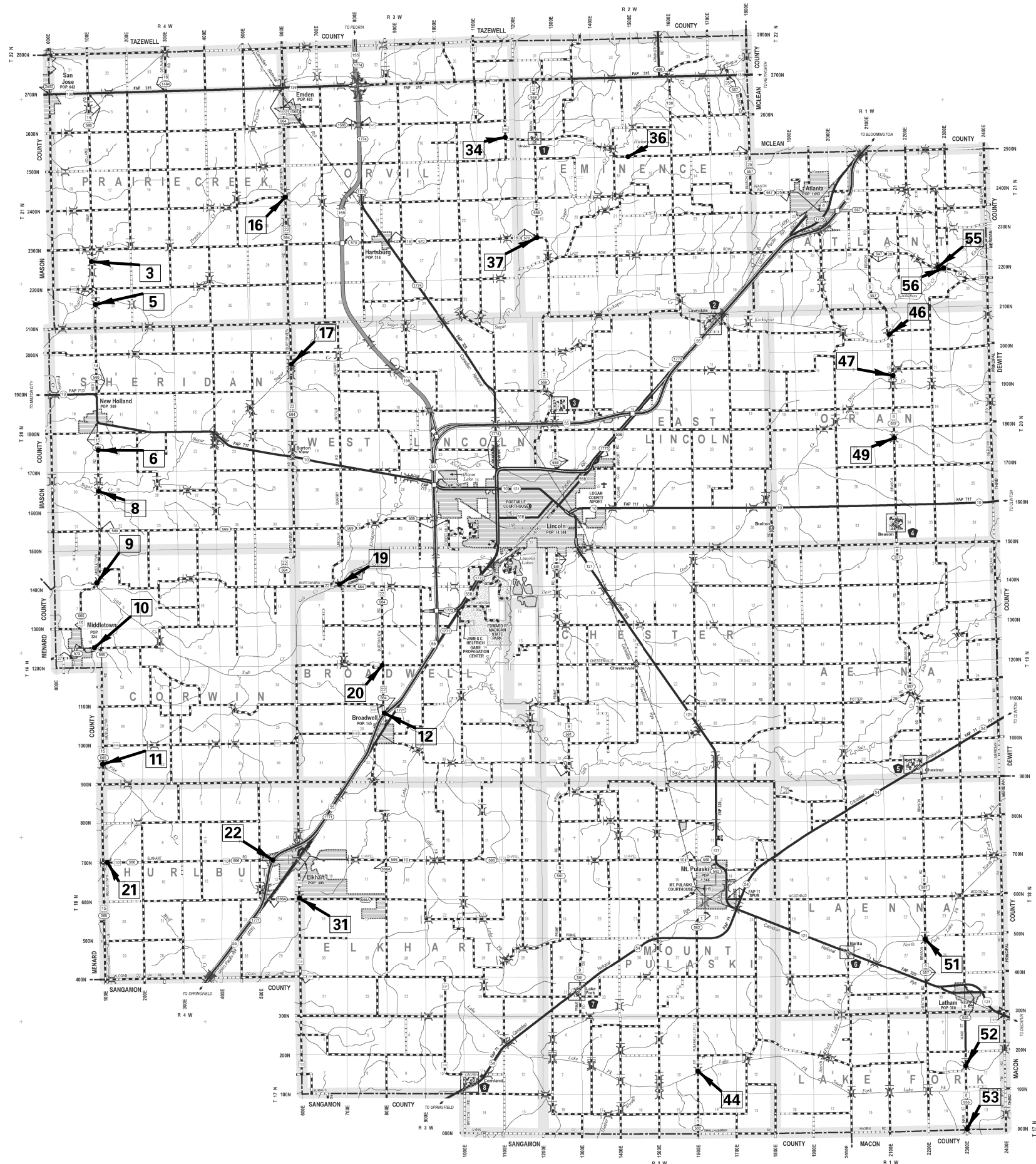
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**LOGAN COUNTY  
GUARDRAIL IMPROVEMENTS**

**SCHEDULES OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00125-00-SP	LOGAN	33	9
CONTRACT NO. 93761				
ILLINOIS FED. AID PROJECT				



MODEL: Default  
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**CEC** Cummins  
 Engineering  
 Corporation  
 Civil and Structural Engineering

JOB - 2578.1  
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 PLOT DATE - 1/8/2021

DESIGNED - CGF  
 DRAWN - SJS  
 CHECKED - THF  
 DATE - 8/05/2020

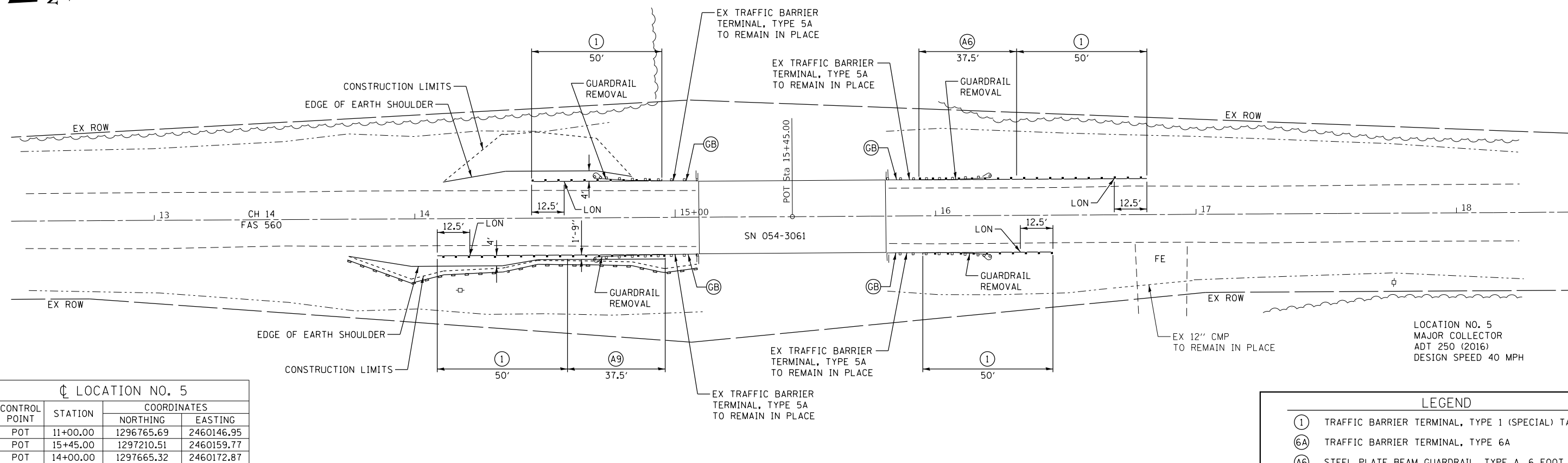
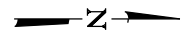
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 REVISED -  
 REVISED -

**LOGAN COUNTY  
 GUARDRAIL IMPROVEMENTS**

**LOCATION MAP  
 LOGAN COUNTY**

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00125-00-SP	LOGAN	33	10
CONTRACT NO. 93761				
ILLINOIS FED. AID PROJECT				

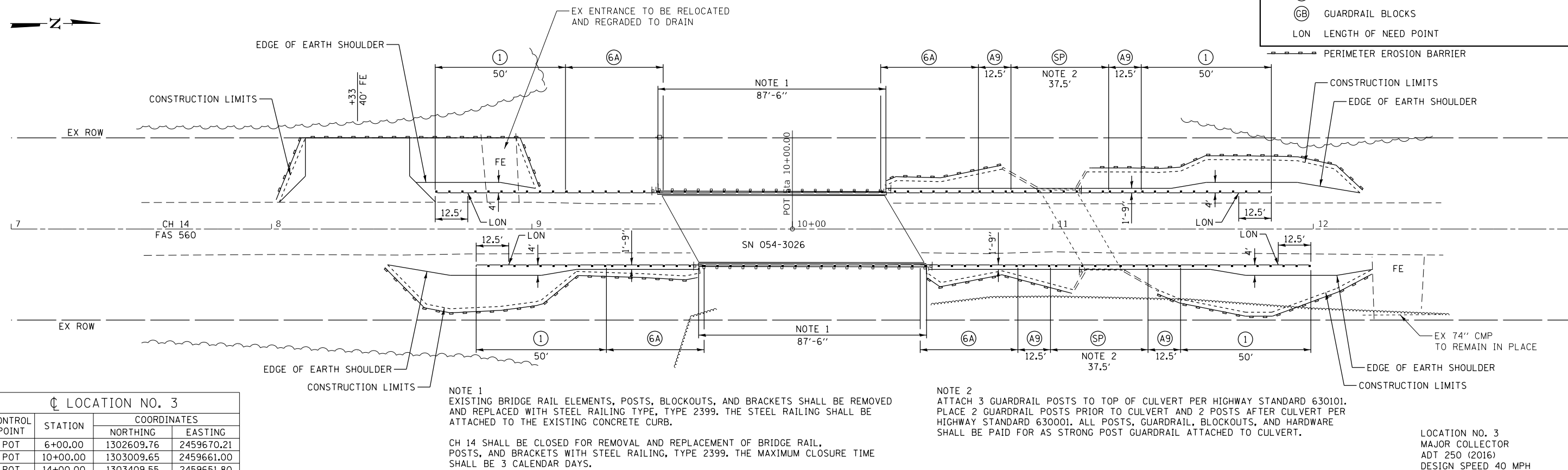
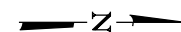


LOCATION NO. 5

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	11+00.00	1296765.69	2460146.95
POT	15+45.00	1297210.51	2460159.77
POT	14+00.00	1297665.32	2460172.87

LEGEND

- (1) TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- (6A) TRAFFIC BARRIER TERMINAL, TYPE 6A
- (A6) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (A9) STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- (SP) STRONG POST GUARDRAIL ATTACHED TO CULVERT
- (GB) GUARDRAIL BLOCKS
- LON LENGTH OF NEED POINT
- PERIMETER EROSION BARRIER



LOCATION NO. 3

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+00.00	1302609.76	2459670.21
POT	10+00.00	1303009.65	2459661.00
POT	14+00.00	1303409.55	2459651.80

NOTE 1  
EXISTING BRIDGE RAIL ELEMENTS, POSTS, BLOCKOUTS, AND BRACKETS SHALL BE REMOVED AND REPLACED WITH STEEL RAILING TYPE, TYPE 2399. THE STEEL RAILING SHALL BE ATTACHED TO THE EXISTING CONCRETE CURB.

CH 14 SHALL BE CLOSED FOR REMOVAL AND REPLACEMENT OF BRIDGE RAIL, POSTS, AND BRACKETS WITH STEEL RAILING, TYPE 2399. THE MAXIMUM CLOSURE TIME SHALL BE 3 CALENDAR DAYS.

NOTE 2  
ATTACH 3 GUARDRAIL POSTS TO TOP OF CULVERT PER HIGHWAY STANDARD 630101. PLACE 2 GUARDRAIL POSTS PRIOR TO CULVERT AND 2 POSTS AFTER CULVERT PER HIGHWAY STANDARD 630001. ALL POSTS, GUARDRAIL, BLOCKOUTS, AND HARDWARE SHALL BE PAID FOR AS STRONG POST GUARDRAIL ATTACHED TO CULVERT.

LOCATION NO. 3  
MAJOR COLLECTOR  
ADT 250 (2016)  
DESIGN SPEED 40 MPH

MODEL: Default  
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PLOT DATE = 1/8/2021

DESIGNED - CGF  
DRAWN - SJS  
CHECKED - THF  
DATE - 8/06/2020

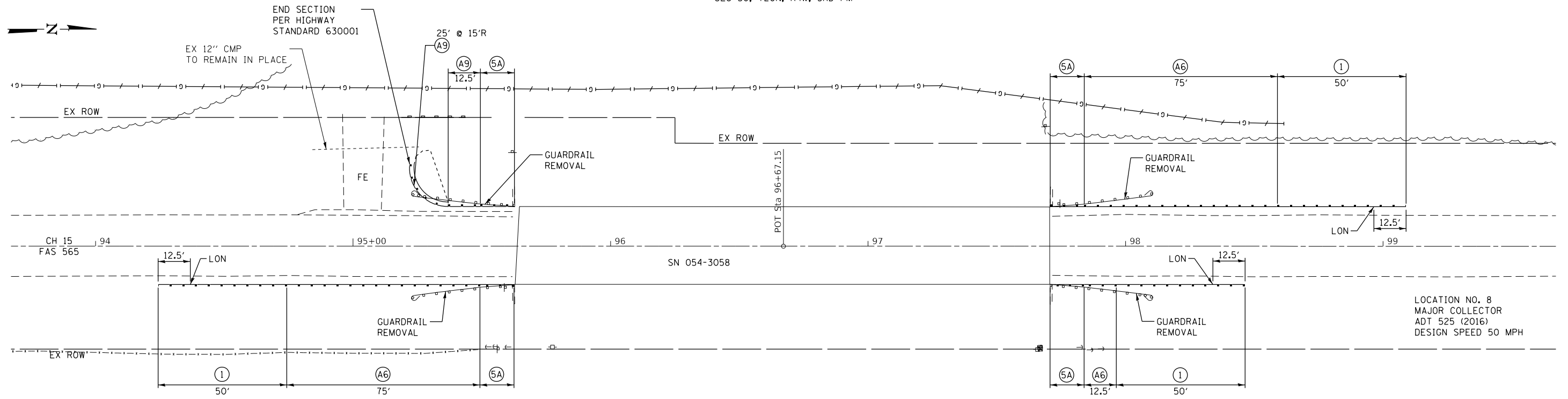
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REVISED -  
REVISED -

LOGAN COUNTY  
GUARDRAIL IMPROVEMENTS

PLAN - LOCATIONS NO. 3 & 5

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			18-00125-00-SP	LOGAN
			CONTRACT NO. 93761	
		ILLINOIS	FED. AID PROJECT	



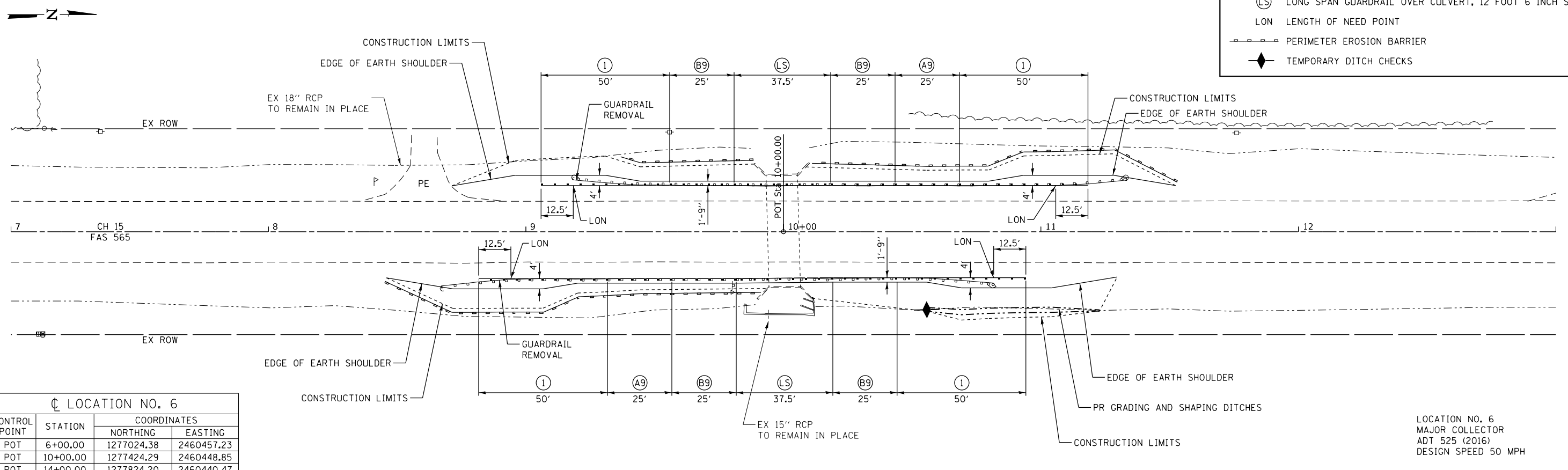
LOCATION NO. 8

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	11+00.00	1271342.26	2460575.02
POT	15+45.00	1271809.30	2460565.25
POT	14+00.00	1272242.06	2460556.20

NOTE:  
DRAINAGE SHALL BE MAINTAINED AT PIPE CULVERT

LEGEND

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ⑤A TRAFFIC BARRIER TERMINAL, TYPE 5A
- ⑥ STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- ⑨ STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- ⑨B STEEL PLATE BEAM GUARDRAIL, TYPE B, 9 FOOT POSTS
- ⑬ LONG SPAN GUARDRAIL OVER CULVERT, 12 FOOT 6 INCH SPAN
- LON LENGTH OF NEED POINT
- PERIMETER EROSION BARRIER
- ◆ TEMPORARY DITCH CHECKS



LOCATION NO. 6

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+00.00	1277024.38	2460457.23
POT	10+00.00	1277424.29	2460448.85
POT	14+00.00	1277824.20	2460440.47

LOCATION NO. 6  
MAJOR COLLECTOR  
ADT 525 (2016)  
DESIGN SPEED 50 MPH

LOGAN COUNTY  
GUARDRAIL IMPROVEMENTS

PLAN - LOCATIONS NO. 6 & 8



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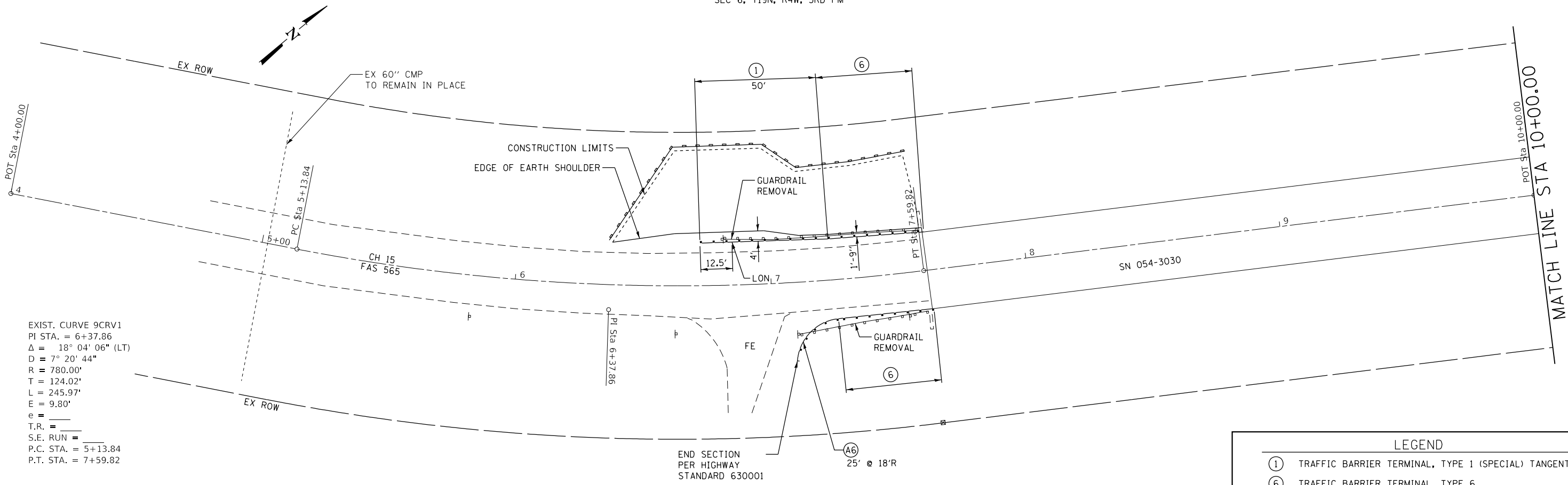
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DATE - 8/06/2020

REVISED -  
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REVISED -  
REVISED -

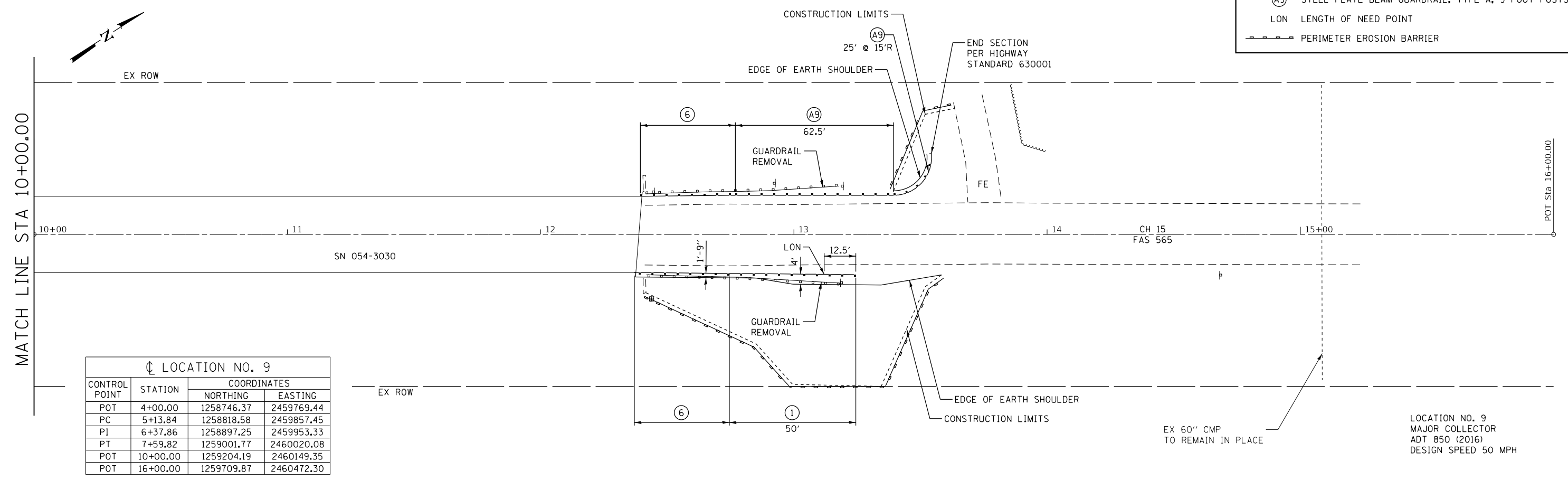
SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00125-00-SP	LOGAN	33	12
CONTRACT NO. 93761				
ILLINOIS FED. AID PROJECT				

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LEGEND	
①	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
⑥	TRAFFIC BARRIER TERMINAL, TYPE 6
Ⓐ	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
Ⓐ	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
LON	LENGTH OF NEED POINT
- - - -	PERIMETER EROSION BARRIER



LOCATION NO. 9  
 MAJOR COLLECTOR  
 ADT 850 (2016)  
 DESIGN SPEED 50 MPH

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 PLOT DATE = 1/18/2021

DESIGNED - CGF	REVISED -
DRAWN - SJS	REVISED -
CHECKED - THF	REVISED -
DATE - 9/22/2020	REVISED -

**LOGAN COUNTY  
 GUARDRAIL IMPROVEMENTS**

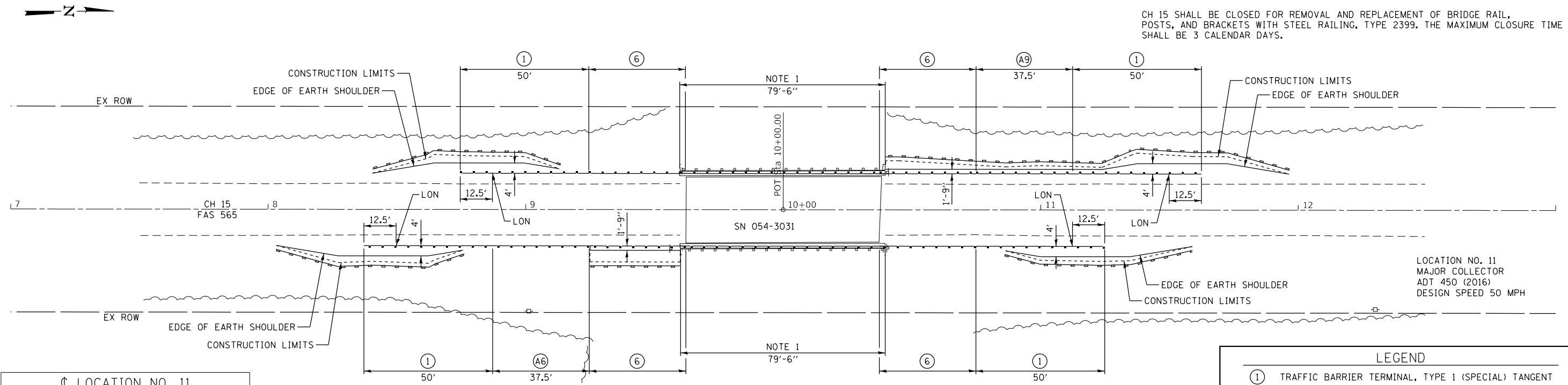
**PLAN - LOCATION NO. 9**

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		18-00125-00-SP	LOGAN	33
CONTRACT NO. 93761				
		ILLINOIS	FED. AID PROJECT	

NOTE 1  
EXISTING BRIDGE RAIL ELEMENTS, POSTS, BLOCKOUTS, AND BRACKETS SHALL BE REMOVED AND REPLACED WITH STEEL RAILING TYPE, TYPE 2399. THE STEEL RAILING SHALL BE ATTACHED TO THE EXISTING CONCRETE CURB.

CH 15 SHALL BE CLOSED FOR REMOVAL AND REPLACEMENT OF BRIDGE RAIL, POSTS, AND BRACKETS WITH STEEL RAILING, TYPE 2399. THE MAXIMUM CLOSURE TIME SHALL BE 3 CALENDAR DAYS.

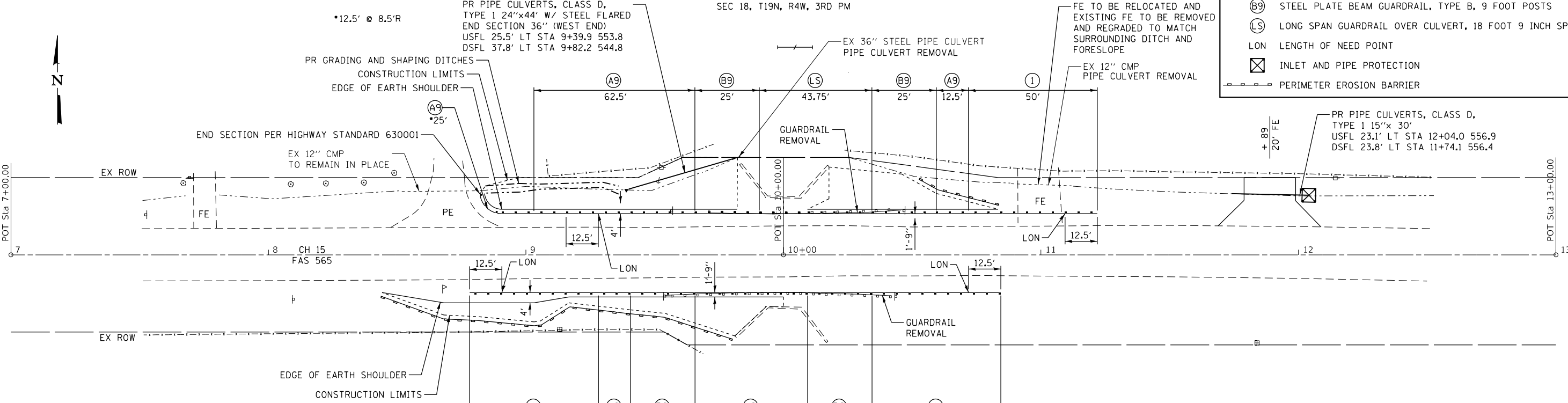


LOCATION NO. 11

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+00.00	1234107.52	2461153.08
POT	10+00.00	1234507.51	2461149.80
POT	14+00.00	1234907.49	2461146.53

LEGEND

- (1) TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- (6A) TRAFFIC BARRIER TERMINAL, TYPE 6A
- (A6) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (A9) STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- (B6) STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS
- (B9) STEEL PLATE BEAM GUARDRAIL, TYPE B, 9 FOOT POSTS
- (LS) LONG SPAN GUARDRAIL OVER CULVERT, 18 FOOT 9 INCH SPAN
- LON LENGTH OF NEED POINT
- ☒ INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER



LOCATION NO. 10

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+00.00	1250693.08	2459719.91
POT	10+00.00	1250695.83	1250695.83
POT	13+00.00	1250698.58	1250698.58

NOTE  
\* FE SHALL BE REMOVED AND REGRADED TO MATCH SURROUNDING DITCH AND FORESLOPE

LOCATION NO. 10  
MAJOR COLLECTOR  
ADT 550 (2016)  
DESIGN SPEED 50 MPH

MODEL: Default  
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PLOT DATE = 1/8/2021

DESIGNED - CGF  
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CHECKED - THF  
DATE - 8/06/2020

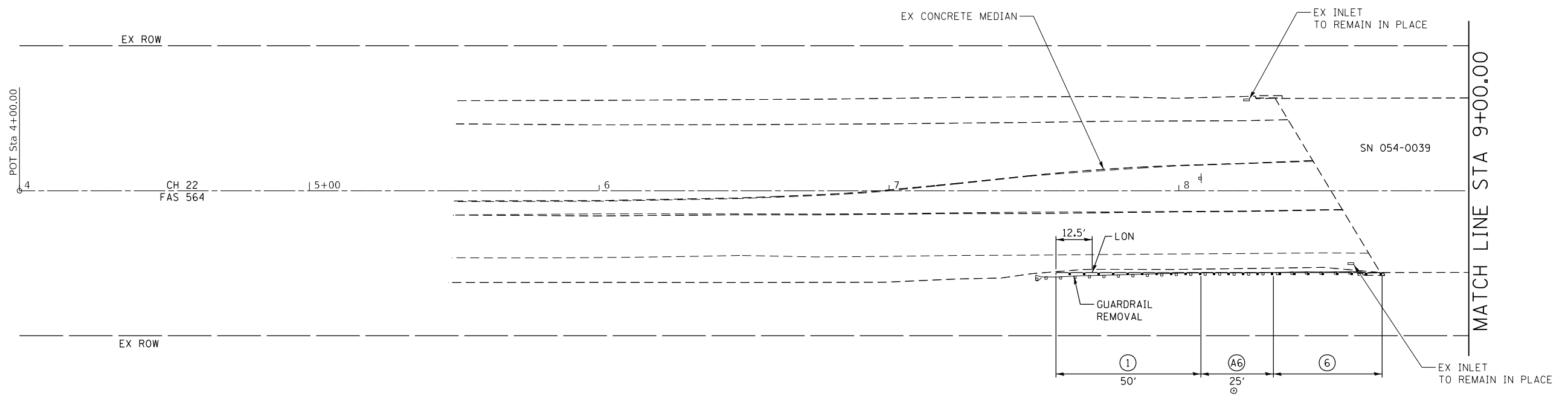
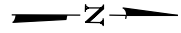
REVISED -  
REVISED -  
REVISED -  
REVISED -

LOGAN COUNTY  
GUARDRAIL IMPROVEMENTS

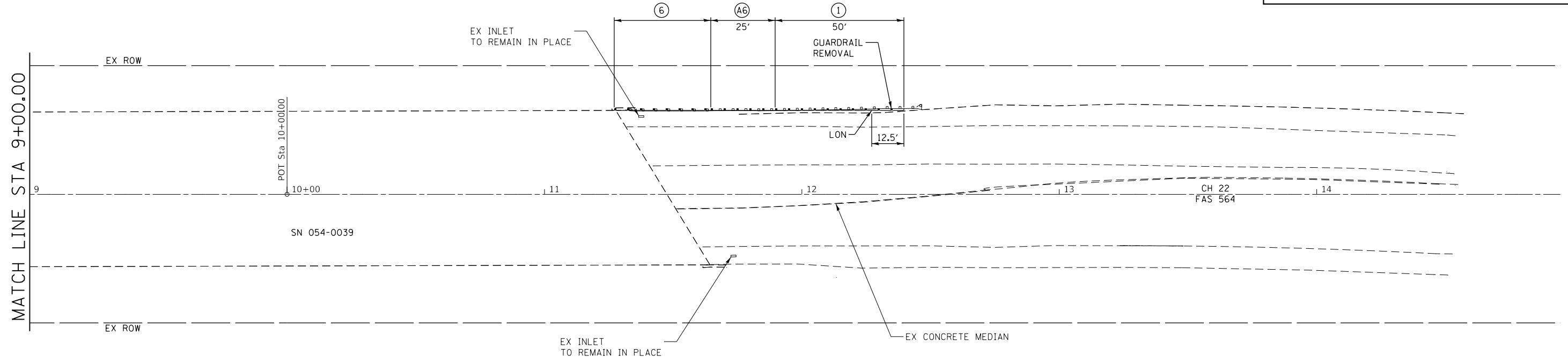
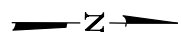
PLAN - LOCATIONS NO. 10 & 11

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			18-00125-00-SP	LOGAN
			CONTRACT NO. 93761	
		ILLINOIS	FED. AID PROJECT	



LEGEND	
①	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
⑥	TRAFFIC BARRIER TERMINAL, TYPE 6
Ⓐ	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
LON	LENGTH OF NEED POINT



LOCATION NO. 12			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	4+00.00	1241156.63	2499457.26
POT	10+00.00	1241740.37	2499318.53
POT	16+00.00	1242324.11	2499179.80

LOCATION NO. 12  
 MAJOR COLLECTOR  
 ADT 150 (2016)  
 DESIGN SPEED 40 MPH

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DESIGNED - CGF  
 DRAWN - SJS  
 CHECKED - THF  
 DATE - 9/10/2020

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**LOGAN COUNTY  
 GUARDRAIL IMPROVEMENTS**

**PLAN LOCATION NO. 12**

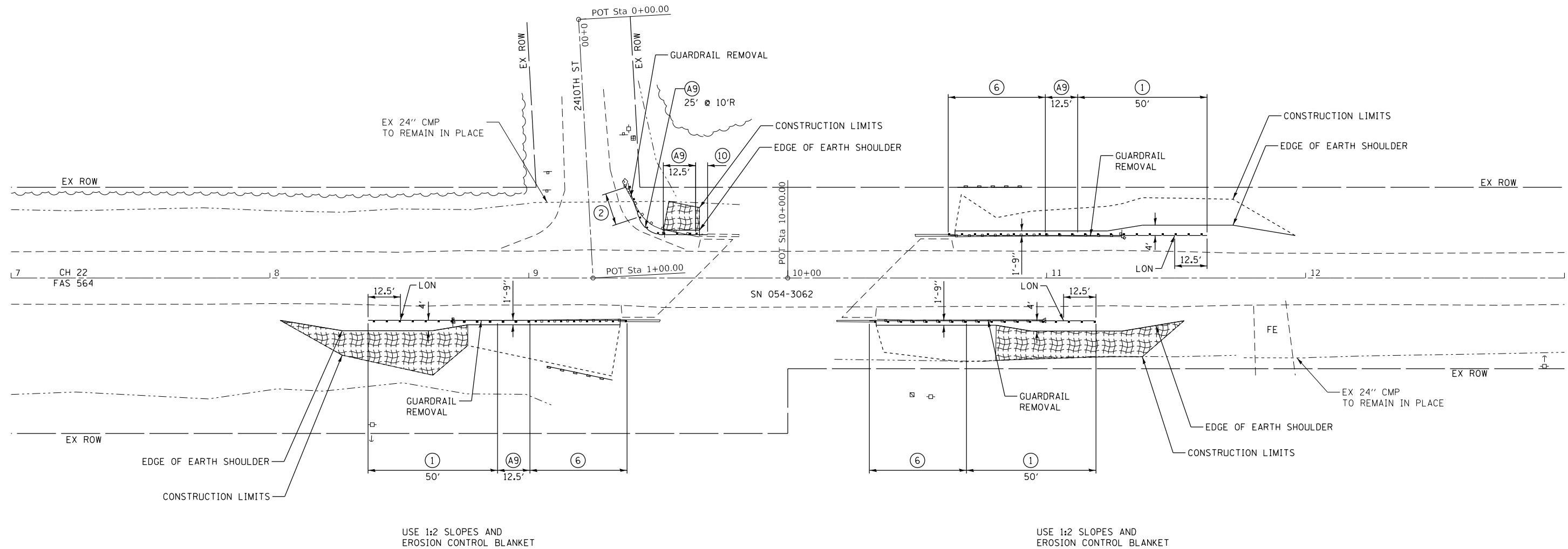
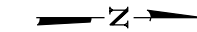
SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00125-00-SP	LOGAN	33	15
CONTRACT NO. 93761				
ILLINOIS FED. AID PROJECT				

LEGEND

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ② TRAFFIC BARRIER TERMINAL, TYPE 2
- ⑥ TRAFFIC BARRIER TERMINAL, TYPE 6
- ⑩ TRAFFIC BARRIER TERMINAL, TYPE 10
- Ⓐ STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- LON LENGTH OF NEED POINT
- PERIMETER EROSION BARRIER
- ▨ EROSION CONTROL BLANKET

NOTE:  
DRAINAGE SHALL BE MAINTAINED AT PIPE CULVERT



CL LOCATION NO. 16			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+00.00	1311408.98	2485928.40
POT	10+00.00	1311808.87	2485918.96
POT	14+00.00	1312208.75	2485909.53

CL SIDEROAD			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	0+00.00	1311725.74	2485821.05
POT	1+00.00	1311733.67	2485920.74

LOCATION NO. 16  
MAJOR COLLECTOR  
ADT 425 (2016)  
DESIGN SPEED 50 MPH

MODEL: Default  
FILE NAME: 2578.1-2578.1-Logan\_Co\_REI\CADD\Sheet\2578.1-shp\plan16.dgn



JOB = 2578.1  
FILE NAME = 2578.1-shp\plan16.dgn  
PLOT SCALE = 40,000' / 1 in.  
PLOT DATE = 1/8/2021

DESIGNED - CGF  
DRAWN - SJS  
CHECKED - THF  
DATE - 8/06/2020

REVISED -  
REVISED -  
REVISED -  
REVISED -

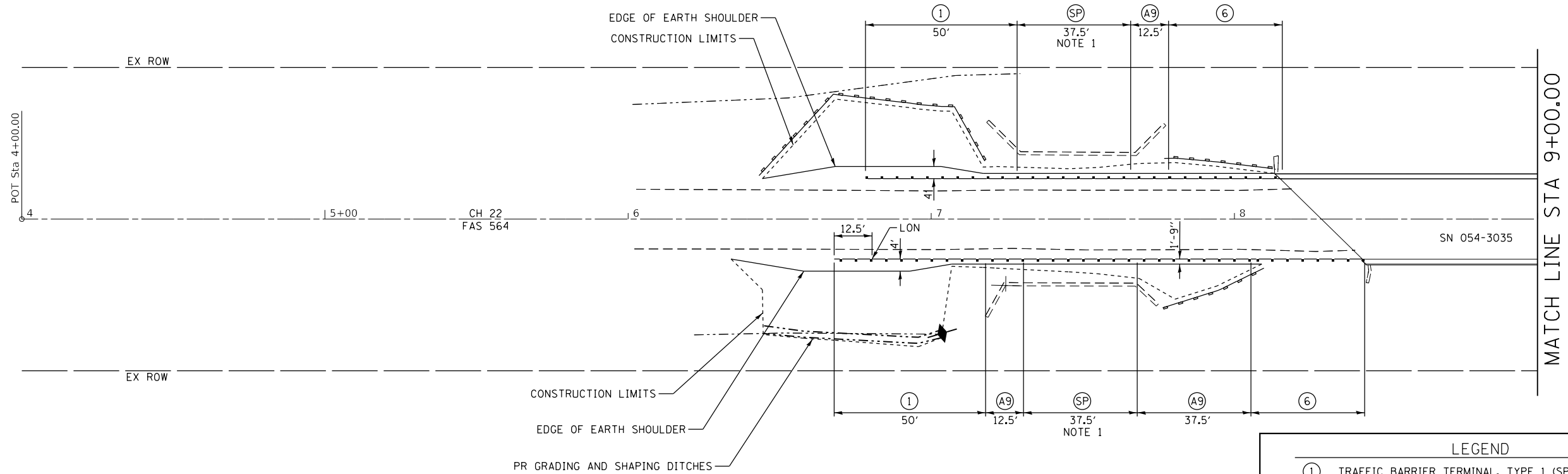
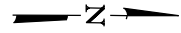
**LOGAN COUNTY  
GUARDRAIL IMPROVEMENTS**

**PLAN - LOCATION NO. 16**

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			18-00125-00-SP	LOGAN
			CONTRACT NO. 93761	
		ILLINOIS	FED. AID PROJECT	

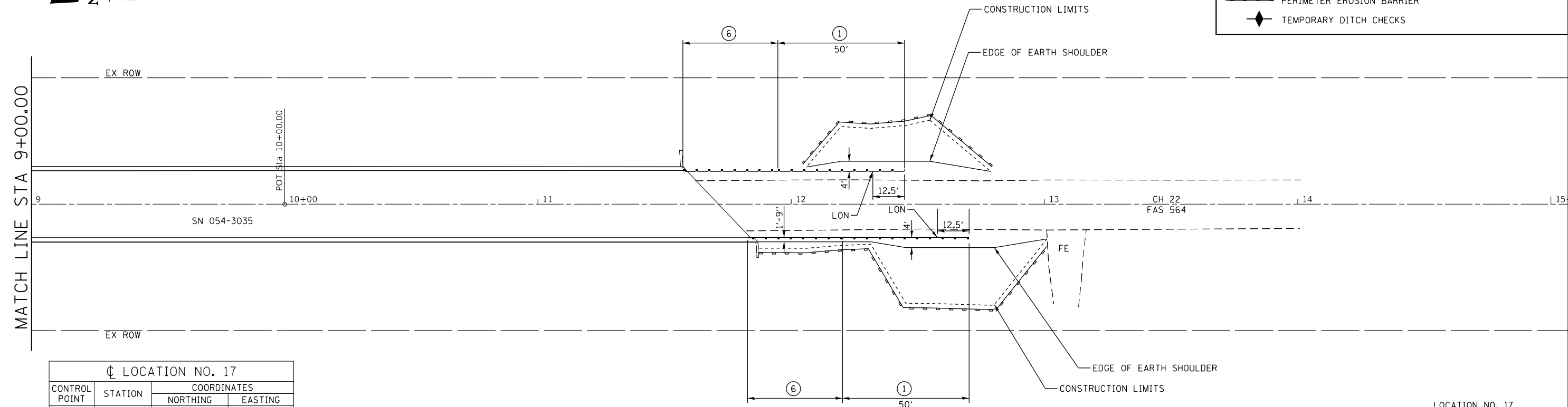
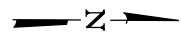




**LEGEND**

①	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
⑥	TRAFFIC BARRIER TERMINAL, TYPE 6
Ⓐ9	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
ⓈP	STRONG POST GUARDRAIL ATTACHED TO CULVERTS
LON	LENGTH OF NEED POINT
---	PERIMETER EROSION BARRIER
◆	TEMPORARY DITCH CHECKS

NOTE 1:  
ATTACH GUARDRAIL TO TOP OF CULVERT PER HIGHWAY STANDARD 630101.



**LOCATION NO. 17**

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	4+00.00	1287778.04	2486694.56
POT	10+00.00	1288377.94	2486683.48
POT	16+00.00	1288977.84	2486672.39

LOCATION NO. 17  
MAJOR COLLECTOR  
ADT 250 (2016)  
DESIGN SPEED 30 MPH

MODEL: Default  
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JOB = 2578.1  
FILE NAME = 2578.1-2578.1-17.dgn  
PLOT SCALE = 40.00' / in.  
PLOT DATE = 1/8/2021

DESIGNED - CGF  
DRAWN - SJS  
CHECKED - THF  
DATE - 9/10/2020

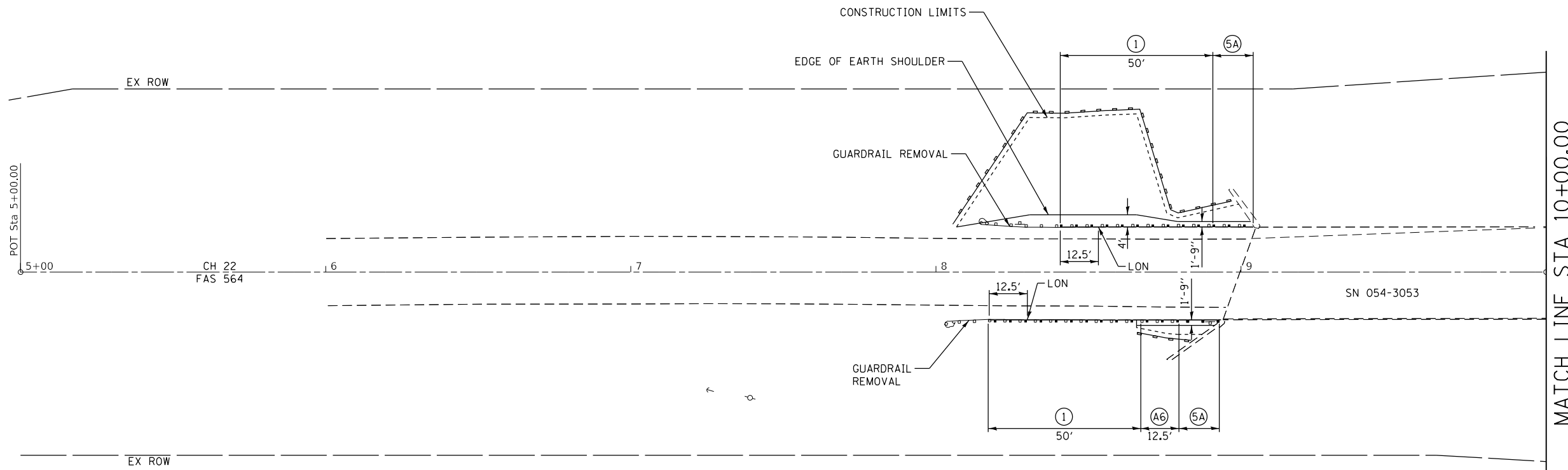
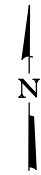
REVISED -  
REVISED -  
REVISED -  
REVISED -

**LOGAN COUNTY  
GUARDRAIL IMPROVEMENTS**

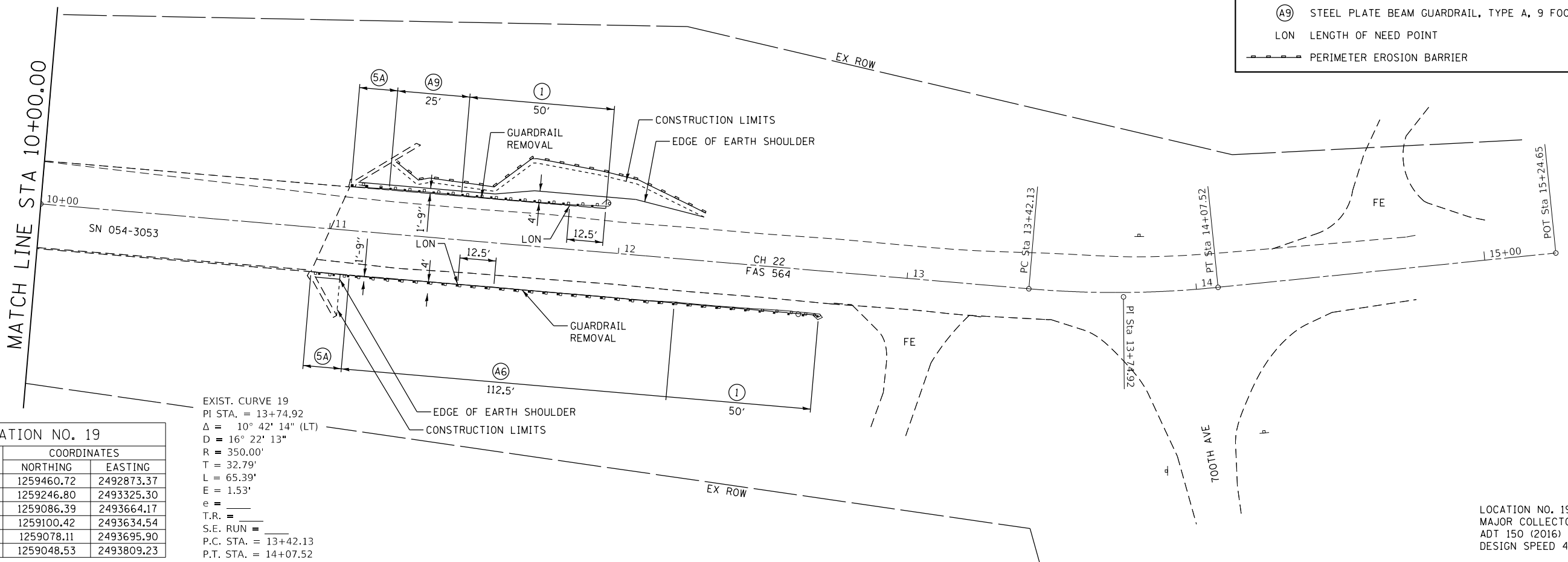
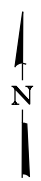
**PLAN - LOCATION NO. 17**

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00125-00-SP	LOGAN	33	17
CONTRACT NO. 93761				
		ILLINOIS	FED. AID PROJECT	



LEGEND	
①	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
⑤A	TRAFFIC BARRIER TERMINAL, TYPE 5A
⑥A	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
⑨A	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
LON	LENGTH OF NEED POINT
---	PERIMETER EROSION BARRIER



EXIST. CURVE 19  
 PI STA. = 13+74.92  
 $\Delta = 10^\circ 42' 14''$  (LT)  
 $D = 16^\circ 22' 13''$   
 $R = 350.00'$   
 $T = 32.79'$   
 $L = 65.39'$   
 $E = 1.53'$   
 $e =$   
 $T.R. =$   
 $S.E. RUN =$   
 P.C. STA. = 13+42.13  
 P.T. STA. = 14+07.52

LOCATION NO. 19			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	5+00.00	1259460.72	2492873.37
POT	10+00.00	1259246.80	2493325.30
PI	13+74.92	1259086.39	2493664.17
PC	13+42.13	1259100.42	2493634.54
PT	14+07.52	1259078.11	2493695.90
POT	15+24.65	1259048.53	2493809.23

LOCATION NO. 19  
 MAJOR COLLECTOR  
 ADT 150 (2016)  
 DESIGN SPEED 40 MPH

MODEL: Default  
 FILE NAME: 2578.1-2578.1-Logan\_Co\_RE\CADD\Sheet\2578.1-2578.1.dgn



JOB = 2578.1  
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 PLOT SCALE = 40.00' / in.  
 PLOT DATE = 1/8/2021

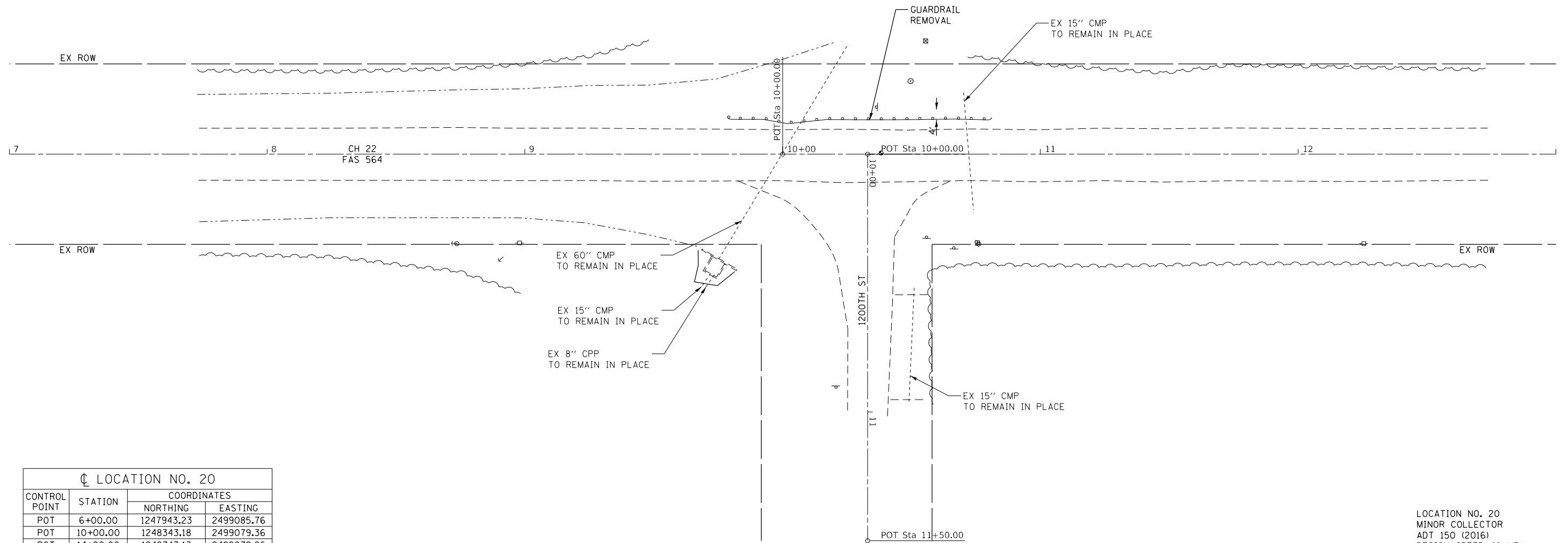
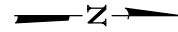
DESIGNED - CGF	REVISED -
DRAWN - SJS	REVISED -
CHECKED - THF	REVISED -
DATE - 9/10/2020	REVISED -

**LOGAN COUNTY**  
**GUARDRAIL IMPROVEMENTS**

**PLAN - LOCATION NO. 19**

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00125-00-SP	LOGAN	33	18
CONTRACT NO. 93761				
		ILLINOIS	FED. AID PROJECT	



CL LOCATION NO. 20			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+00.00	1247943.23	2499085.76
POT	10+00.00	1248343.18	2499079.36
POT	14+00.00	1248743.13	2499072.96

CL SIDEROAD			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	10+00.00	1248376.12	2499078.83
POT	11+50.00	1248378.53	2499228.81

LOCATION NO. 20  
MINOR COLLECTOR  
ADT 150 (2016)  
DESIGN SPEED 40 MPH

SIDE ROAD  
LOCAL ROAD  
ADT 75 (2016)  
DESIGN SPEED 30 MPH

MODEL: Default  
FILE NAME: 18-00125-00-SP-18-00125-00-SP.dgn



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FILE NAME = 2578.1-ehk-plan20.dgn  
PLOT SCALE = 40,0000 / 1 in.  
PLOT DATE = 1/8/2021

DESIGNED - CGF  
DRAWN - SJS  
CHECKED - THF  
DATE - 8/06/2020

REVISED -  
REVISED -  
REVISED -  
REVISED -

**LOGAN COUNTY  
GUARDRAIL IMPROVEMENTS**

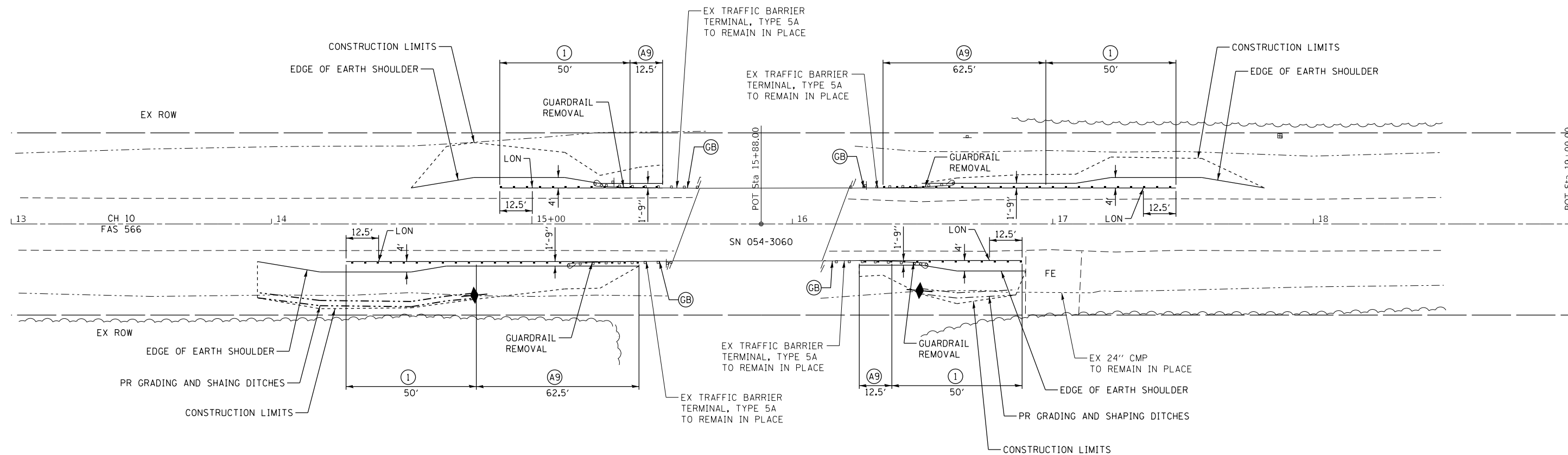
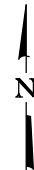
**PLAN - LOCATION NO. 20**

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		18-00125-00-SP	LOGAN	33
CONTRACT NO. 93761				
ILLINOIS		FED. AID PROJECT		

LEGEND

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- Ⓐ9 STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- ⓄB GUARDRAIL BLOCKS
- LON LENGTH OF NEED POINT
- ◆ TEMPORARY DITCH CHECKS



LOCATION NO. 21

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	12+00.00	1221607.70	2461360.58
POT	15+88.00	1221613.79	2461748.54
POT	19+00.00	1221618.68	2462060.50

LOCATION NO. 21  
 MAJOR COLLECTOR  
 ADT 400 (2016)  
 DESIGN SPEED 50 MPH

LOGAN COUNTY  
 GUARDRAIL IMPROVEMENTS

PLAN - LOCATION NO. 21



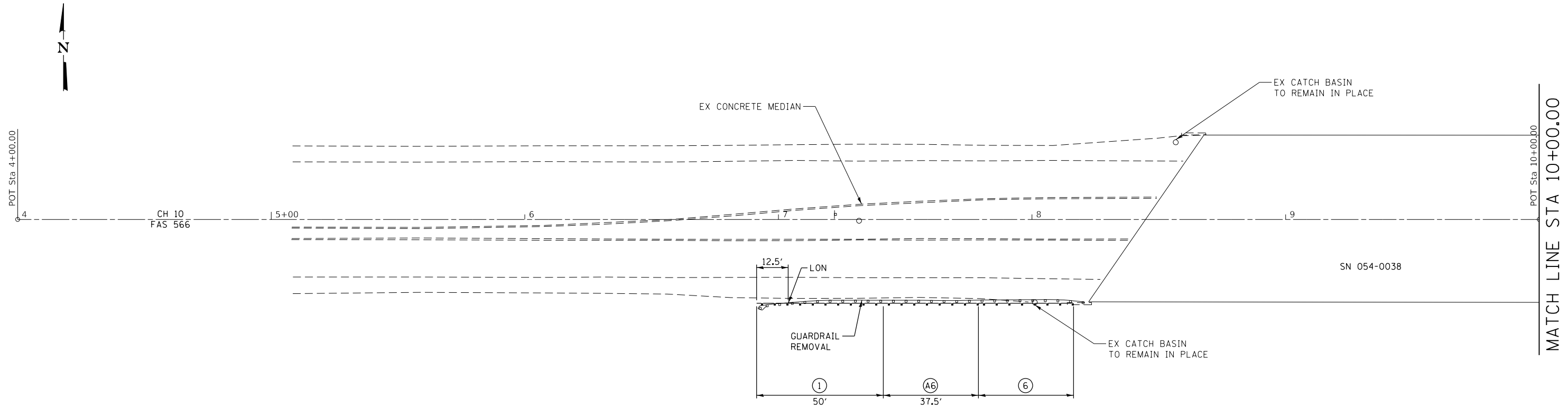
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PLOT SCALE = 40,000' / 1 in.	CHECKED - THF	REVISED -
PLOT DATE = 1/8/2021	DATE - 8/06/2020	REVISED -

SCALE: SHEET OF SHEETS STA. TO STA.

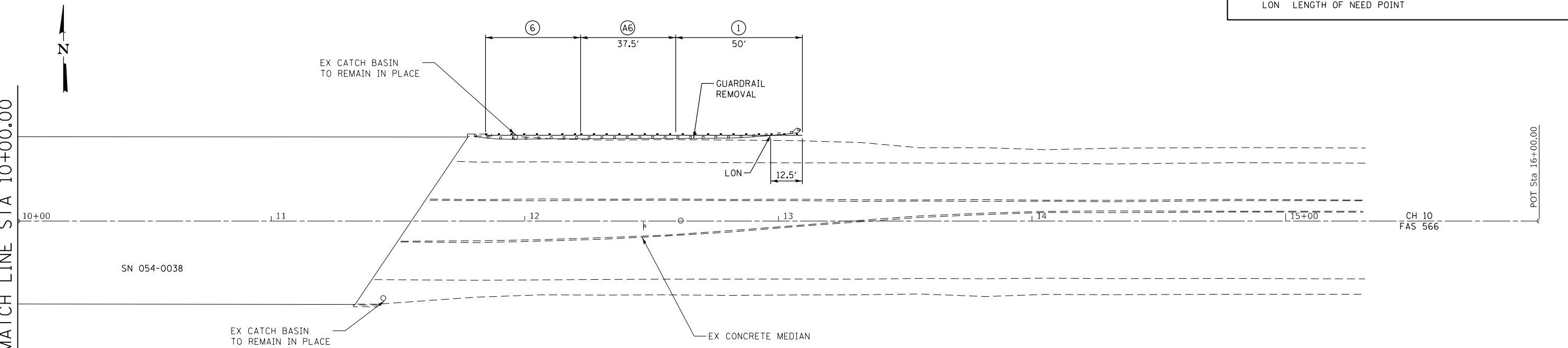
VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00125-00-SP	LOGAN	33	20
CONTRACT NO. 93761				
		ILLINOIS	FED. AID PROJECT	

MODEL: Default  
 FILE NAME: 2578.1-ehp-plan21.dgn  
 PROJECT: 2578.1-Logan\_Co\_Plan21.dgn

SEC 12, T18N, R4W, 3RD PM



SEC 13, T18N, R4W, 3RD PM  
SEC 12, T18N, R4W, 3RD PM



LEGEND	
①	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
⑥	TRAFFIC BARRIER TERMINAL, TYPE 6
Ⓐ	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
LON	LENGTH OF NEED POINT

☐ LOCATION NO. 22			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	4+00.00	1221943.84	2483670.63
POT	10+00.00	1221950.80	2484270.59
POT	16+00.00	1221957.77	2484870.55

LOCATION NO. 22  
MAJOR COLLECTOR  
ADT 1500 (2016)  
DESIGN SPEED 50 MPH

SEC 13, T18N, R4W, 3RD PM

MODEL: Default  
FILE NAME: 2578.1-2578.1-Logan\_Co\_Plan22.dgn



JOB = 2578.1  
FILE NAME = 2578.1-2578.1-Logan\_Co\_Plan22.dgn  
PLOT SCALE = 40,000' / 1" = 40000  
PLOT DATE = 1/8/2021

DESIGNED - CGF  
DRAWN - SJS  
CHECKED - THF  
DATE - 9/03/2020

REVISED -  
REVISED -  
REVISED -  
REVISED -

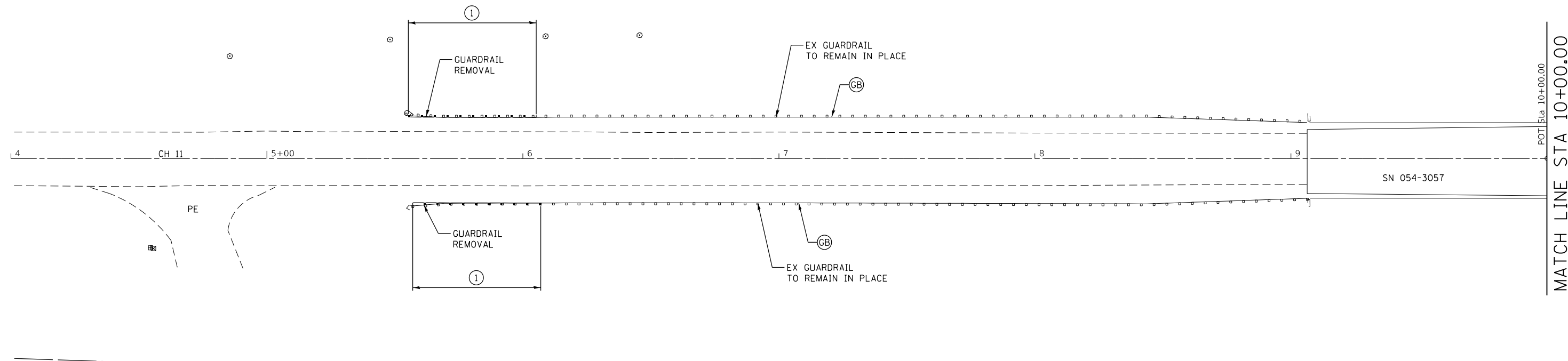
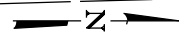
**LOGAN COUNTY  
GUARDRAIL IMPROVEMENTS**

**PLAN - LOCATION NO. 22**

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			18-00125-00-SP	LOGAN
			CONTRACT NO. 93761	
		ILLINOIS	FED. AID PROJECT	

SEC 24, T18N, R4W, 3RD PM

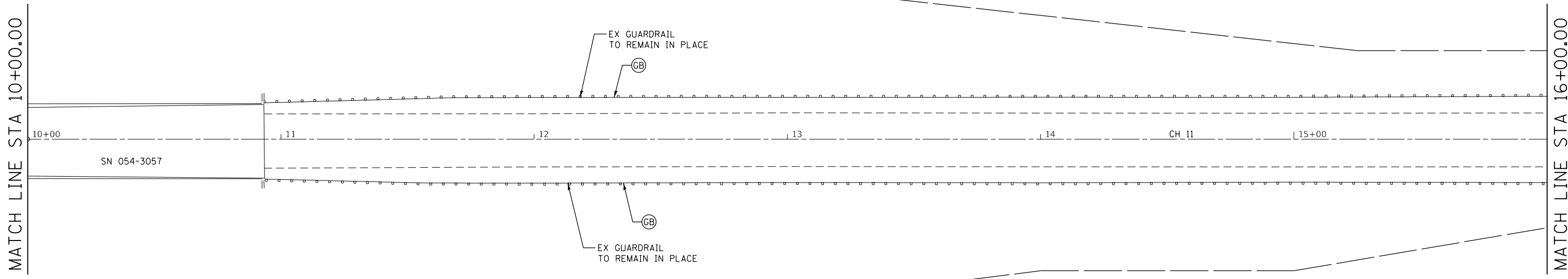
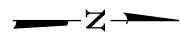


SEC 19, T18N, R3W, 3RD PM

SEC 13, T18N, R4W, 3RD PM

LEGEND

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ⊙ GUARDRAIL BLOCKS



LOCATION NO. 31

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	3+00.00	1216013.52	2487805.49
POT	10+00.00	1216713.47	2487797.61
POT	24+00.00	1218113.38	2487781.85

NOTE:  
ALL EXISTING GUARDRAIL BLOCKS SHALL BE REPLACED.

LOCATION NO. 31  
MAJOR COLLECTOR  
ADT 300 (2016)  
DESIGN SPEED 40 MPH

SEC 18, T18N, R3W, 3RD PM

MODEL: Default  
FILE NAME: 18-00125-00-SP-18-00125-00-SP-18-00125-00-SP.dgn



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FILE NAME = 2578.1-ehk-plan31.dgn  
PLOT SCALE = 40,0000' / in.  
PLOT DATE = 1/8/2021

DESIGNED - CGF  
DRAWN - SJS  
CHECKED - THF  
DATE - 8/06/2020

REVISED -  
REVISED -  
REVISED -  
REVISED -

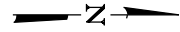
LOGAN COUNTY  
GUARDRAIL IMPROVEMENTS

PLAN - LOCATION NO. 31

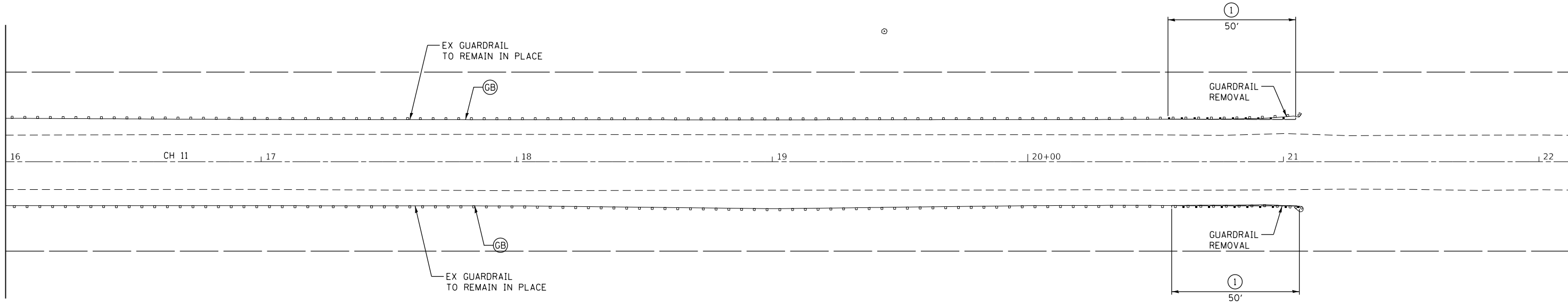
SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00125-00-SP	LOGAN	33	22
CONTRACT NO. 93761				
ILLINOIS FED. AID PROJECT				

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ⊙ GUARDRAIL BLOCKS



MATCH LINE STA 16+00.00



LOCATION NO. 31			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	3+00.00	1216013.52	2487805.49
POT	10+00.00	1216713.47	2487797.61
POT	24+00.00	1218113.38	2487781.85

NOTE:  
ALL EXISTING GUARRDAIL BLOCKS SHALL BE REPLACED.

LOCATION NO. 31  
MAJOR COLLECTOR  
ADT 300 (2016)  
DESIGN SPEED 40 MPH

MODEL: Default  
FILE NAME: 2578.1-2578.1-Logan\_Co\_Plan31.dgn



JOB = 2578.1	DESIGNED - CGF	REVISED -
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PLOT SCALE = 40,000' / 1" =	CHECKED - THF	REVISED -
PLOT DATE = 1/8/2021	DATE - 8/06/2020	REVISED -

**LOGAN COUNTY  
GUARDRAIL IMPROVEMENTS**

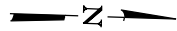
**PLAN - LOCATION NO. 31**

SCALE: SHEET OF SHEETS STA. TO STA.

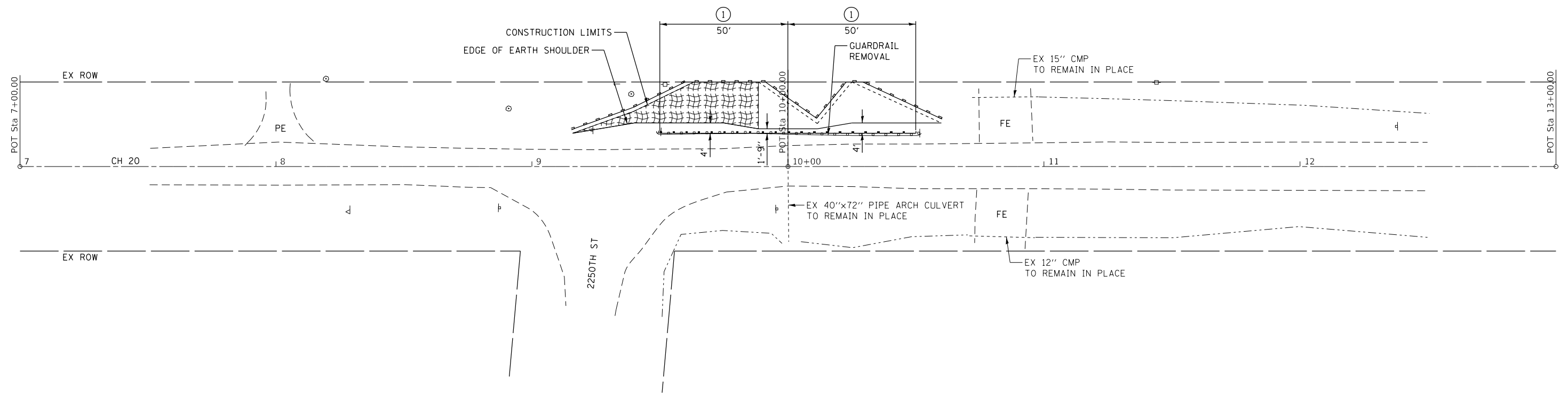
VARIOUS ROUTES	SECTION	COUNTY	TOTAL	SHEET
			SHEETS	NO.
	18-00125-00-SP	LOGAN	33	23
			CONTRACT NO. 93761	
		ILLINOIS	FED. AID PROJECT	

LEGEND

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ▨ EROSION CONTROL BLANKET



USE 1:2 SLOPES AND  
EROSION CONTROL BLANKET



LOCATION NO. 34			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+00.00	1319334.90	2515720.78
POT	10+00.00	1319634.74	2515711.08
POT	13+00.00	1319934.59	2515701.37

LOCATION NO. 34  
MAJOR COLLECTOR  
ADT 75 (2016)  
DESIGN SPEED 40 MPH

MODEL: Default  
 FILE NAME: 2578.1-2578.1-Logan\_Co\_Plan34.dgn  
 FILE NAME: 2578.1-2578.1-Logan\_Co\_Plan34.dgn



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 PLOT DATE = 1/8/2021

DESIGNED - CGF  
 DRAWN - SJS  
 CHECKED - THF  
 DATE - 8/06/2020

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

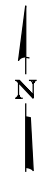
**LOGAN COUNTY  
GUARDRAIL IMPROVEMENTS**

**PLAN - LOCATION NO. 34**

SCALE: SHEET OF SHEETS STA. TO STA.

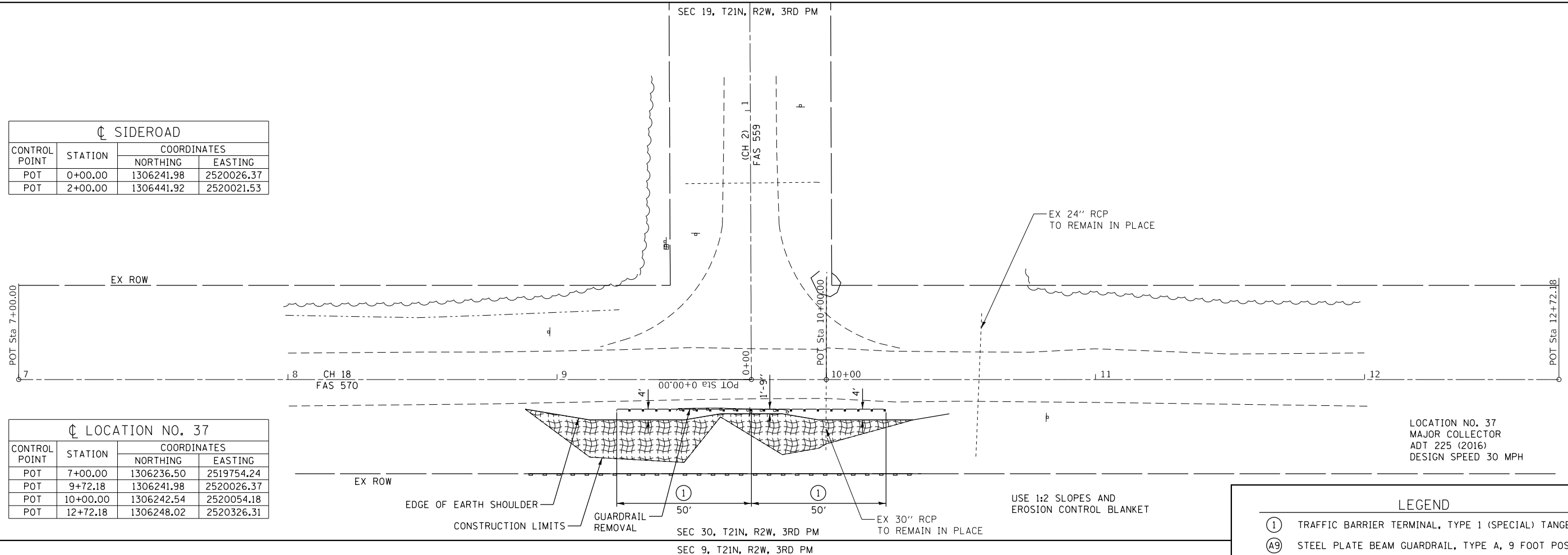
VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00125-00-SP	LOGAN	33	24
CONTRACT NO. 93761				
		ILLINOIS	FED. AID PROJECT	





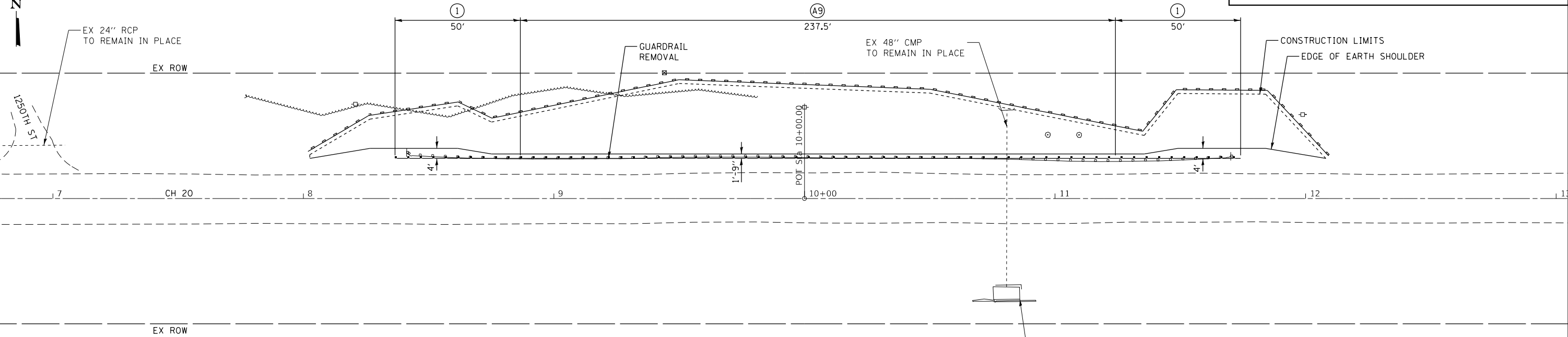
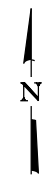
☐ SIDEROAD			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	0+00.00	1306241.98	2520026.37
POT	2+00.00	1306441.92	2520021.53

☐ LOCATION NO. 37			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+00.00	1306236.50	2519754.24
POT	9+72.18	1306241.98	2520026.37
POT	10+00.00	1306242.54	2520054.18
POT	12+72.18	1306248.02	2520326.31



LOCATION NO. 37  
MAJOR COLLECTOR  
ADT 225 (2016)  
DESIGN SPEED 30 MPH

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



☐ LOCATION NO. 36			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	5+00.00	1317178.90	2531590.67
POT	10+00.00	1317193.71	2532090.45
POT	15+00.00	1317208.52	2532590.23

NOTE:  
TREE REMOVAL SHALL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

LOCATION NO. 36  
MAJOR COLLECTOR  
ADT 125 (2016)  
DESIGN SPEED 30 MPH

MODEL: Default  
FILE NAME: 2578.1-ahh-plan36\_37.dgn  
PROJECT: 18-00125-00-SP-LOGAN-CD-REI\CADD\Sheets\2578.1-ahh-plan36\_37.dgn



JOB = 2578.1  
FILE NAME = 2578.1-ahh-plan36\_37.dgn  
PLOT SCALE = 40.00' / in.  
PLOT DATE = 1/8/2021

DESIGNED - CGF  
DRAWN - SJS  
CHECKED - THF  
DATE - 8/06/2020

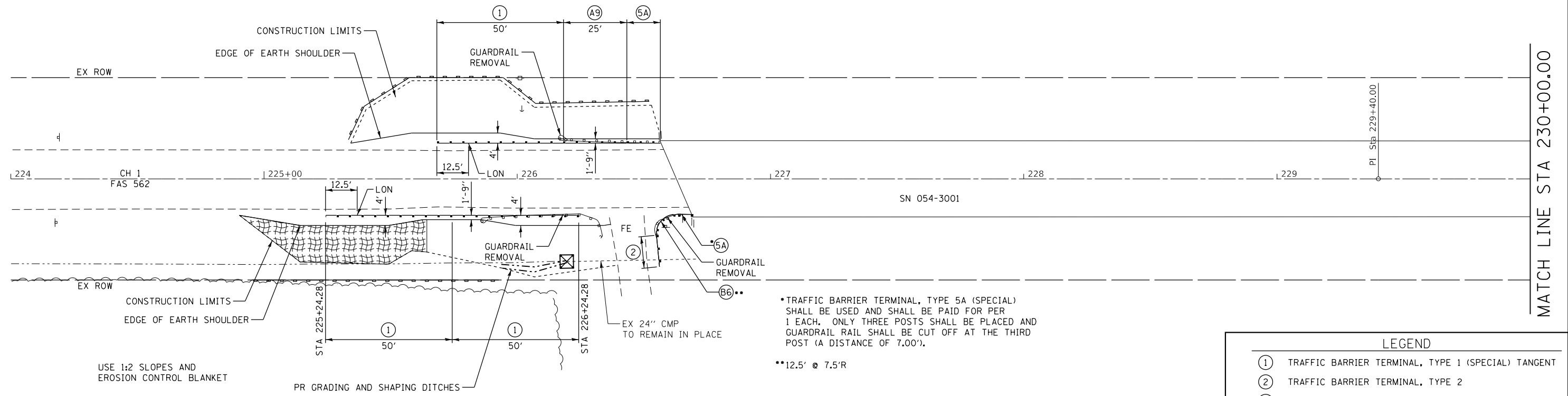
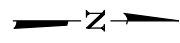
REVISED -  
REVISED -  
REVISED -  
REVISED -

**LOGAN COUNTY  
GUARDRAIL IMPROVEMENTS**

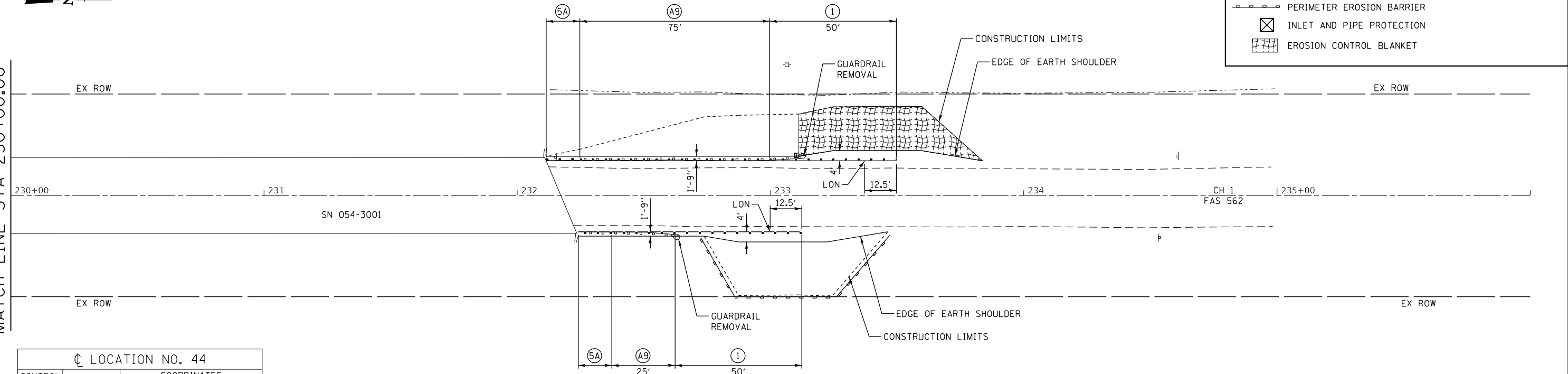
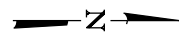
**PLAN - LOCATIONS NO. 36 & 37**

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00125-00-SP	LOGAN	33	25
CONTRACT NO. 93761				
		ILLINOIS	FED. AID PROJECT	



MATCH LINE STA 230+00.00



MATCH LINE STA 230+00.00

LOCATION NO. 44			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	223+40.00	1192505.77	2541828.53
POT	229+40.00	1193105.77	2541826.62
POT	236+20.00	1193785.77	2541824.46

LOCATION NO. 44  
MAJOR COLLECTOR  
ADT 650 (2016)  
DESIGN SPEED 50 MPH

**LOGAN COUNTY  
GUARDRAIL IMPROVEMENTS**

**PLAN - LOCATION NO. 44**



JOB = 2578.1  
FILE NAME = 2578.1-shk-plan44.dgn  
PLOT SCALE = 40.00' / in.  
PLOT DATE = 1/8/2021

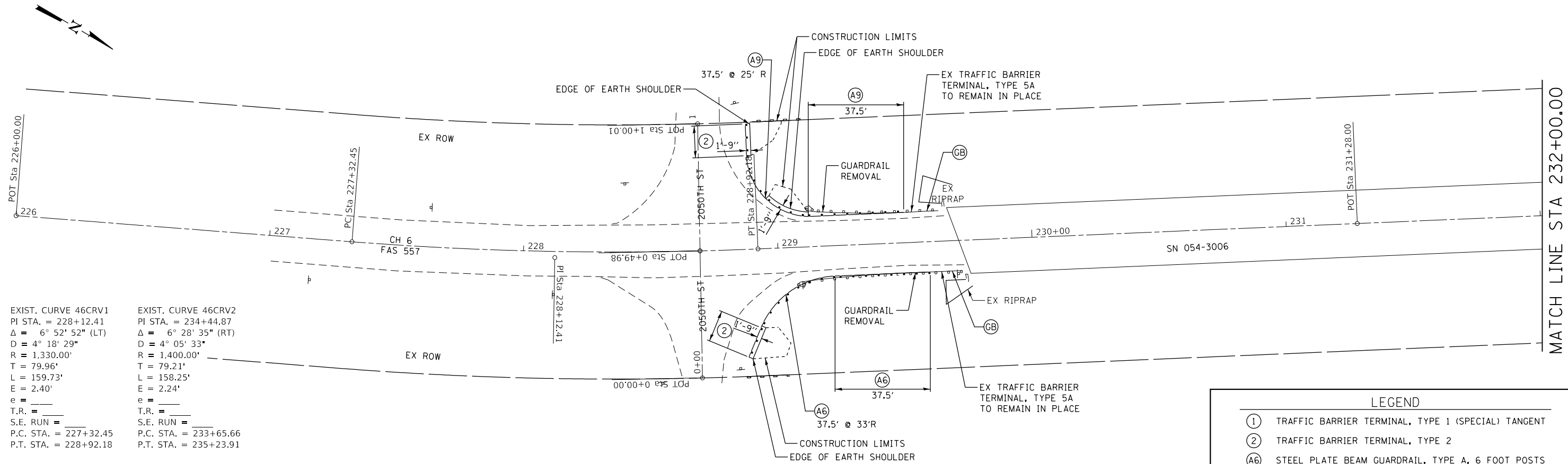
DESIGNED - CGF  
DRAWN - SJS  
CHECKED - THF  
DATE - 8/06/2020

REVISED -  
REVISED -  
REVISED -  
REVISED -

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			18-00125-00-SP	LOGAN
			CONTRACT NO. 93761	
		ILLINOIS	FED. AID PROJECT	

MODEL: Default  
FILE NAME: 2578.1-Logan\_Co\_REI\CADD\Sheet\2578.1-shk-plan44.dgn

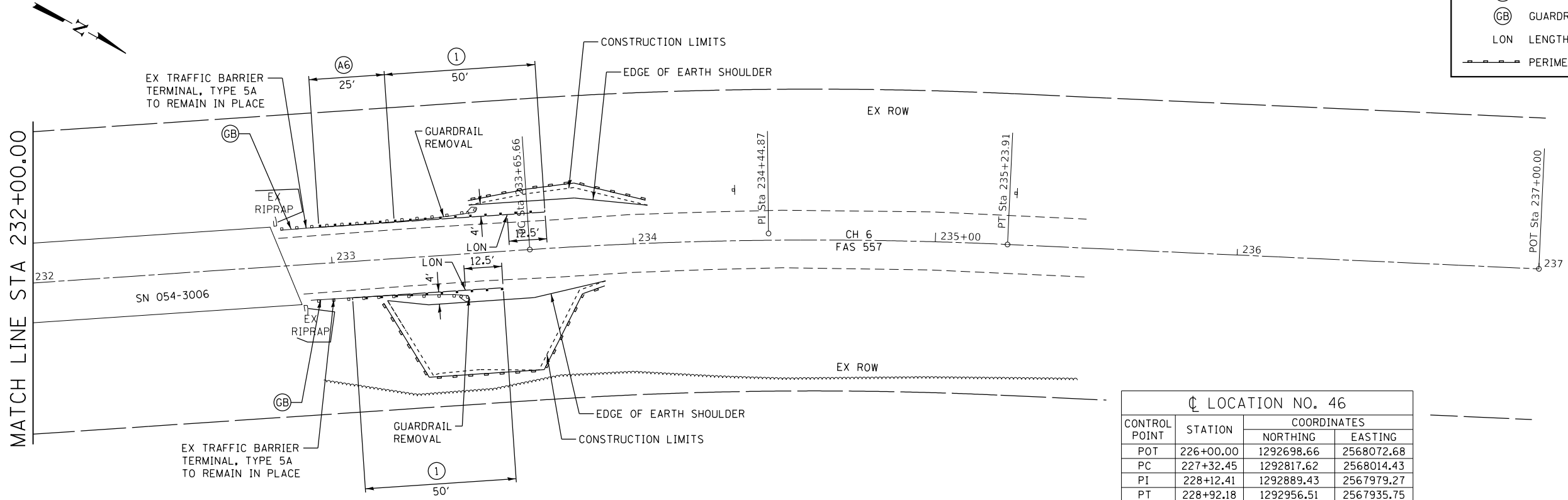


EXIST. CURVE 46CRV1  
 PI STA. = 228+12.41  
 $\Delta = 6^\circ 52' 52''$  (LT)  
 $D = 4^\circ 18' 29''$   
 $R = 1,330.00'$   
 $T = 79.96'$   
 $L = 159.73'$   
 $E = 2.40'$   
 $e = \text{---}$   
 T.R. =  $\text{---}$   
 S.E. RUN =  $\text{---}$   
 P.C. STA. = 227+32.45  
 P.T. STA. = 228+92.18

EXIST. CURVE 46CRV2  
 PI STA. = 234+44.87  
 $\Delta = 6^\circ 28' 35''$  (RT)  
 $D = 4^\circ 05' 33''$   
 $R = 1,400.00'$   
 $T = 79.21'$   
 $L = 158.25'$   
 $E = 2.24'$   
 $e = \text{---}$   
 T.R. =  $\text{---}$   
 S.E. RUN =  $\text{---}$   
 P.C. STA. = 233+65.66  
 P.T. STA. = 235+23.91

**LEGEND**

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ② TRAFFIC BARRIER TERMINAL, TYPE 2
- A6 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- A9 STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- GB GUARDRAIL BLOCKS
- LON LENGTH OF NEED POINT
- PERIMETER EROSION BARRIER



**LOCATION NO. 46**

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	226+00.00	1292698.66	2568072.68
PC	227+32.45	1292817.62	2568014.43
PI	228+12.41	1292889.43	2567979.27
PT	228+92.18	1292956.51	2567935.75
POT	231+28.00	1293154.35	2567807.42
PC	233+65.66	1293353.74	2567678.08
PI	234+44.87	1293420.19	2567634.98
PT	235+23.91	1293491.08	2567599.64
POT	237+00.00	1293648.68	2567521.08

LOCATION NO. 46  
 MAJOR COLLECTOR  
 ADT 400 (2016)  
 DESIGN SPEED 50 MPH

MODEL: Default  
 FILE NAME: 2578.1-2578.1-Logan\_Co\_Plan46.dgn



JOB = 2578.1  
 FILE NAME = 2578.1-2578.1-Logan\_Co\_Plan46.dgn  
 PLOT SCALE = 40.00' / in.  
 PLOT DATE = 1/8/2021

DESIGNED - CGF  
 DRAWN - SJS  
 CHECKED - THF  
 DATE - 8/06/2020

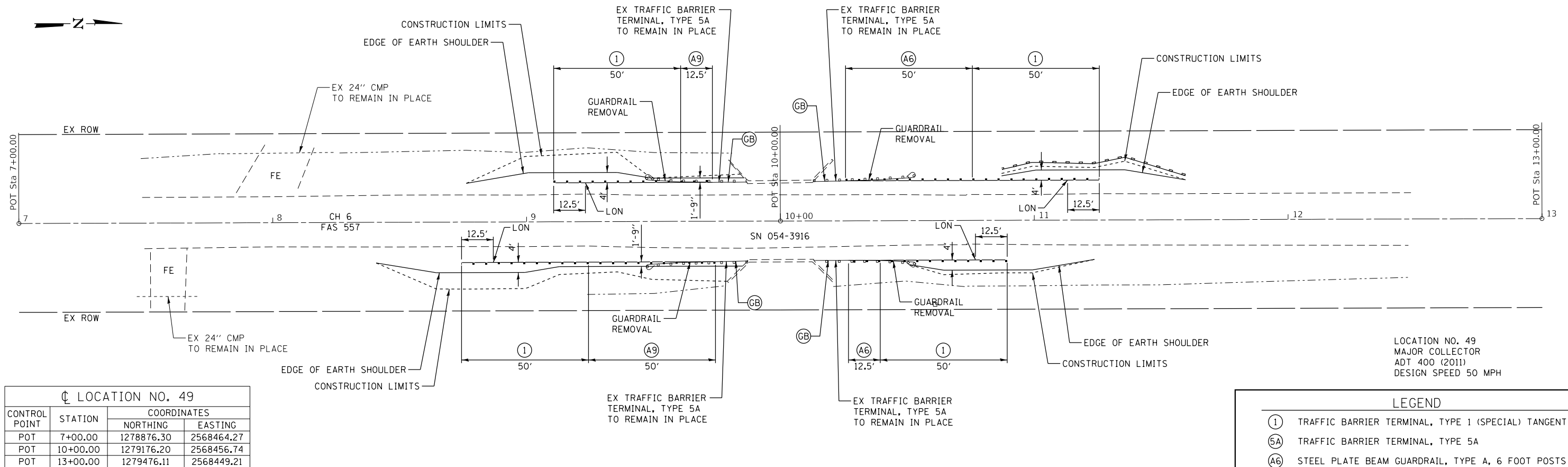
REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**LOGAN COUNTY  
 GUARDRAIL IMPROVEMENTS**

**PLAN - LOCATION NO. 46**

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			18-00125-00-SP	LOGAN
CONTRACT NO. 93761				
		ILLINOIS	FED. AID PROJECT	



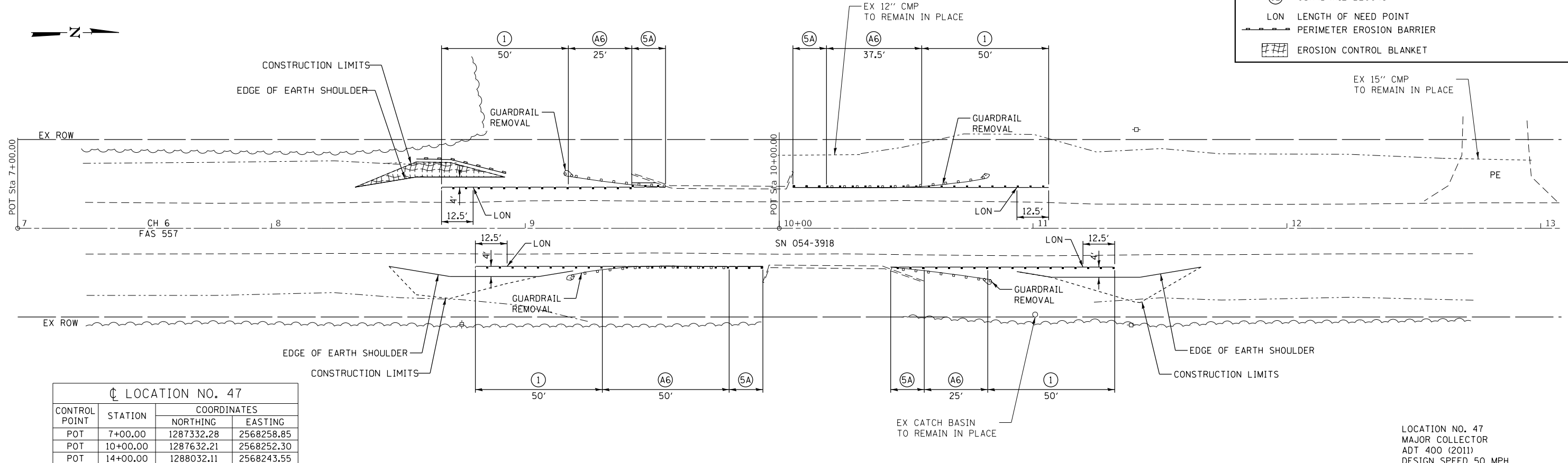
LOCATION NO. 49

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+00.00	1278876.30	2568464.27
POT	10+00.00	1279176.20	2568456.74
POT	13+00.00	1279476.11	2568449.21

LOCATION NO. 49  
MAJOR COLLECTOR  
ADT 400 (2011)  
DESIGN SPEED 50 MPH

LEGEND

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ⑤A TRAFFIC BARRIER TERMINAL, TYPE 5A
- ⑥A STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- ⑨A STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- ⓄB GUARDRAIL BLOCKS
- LON LENGTH OF NEED POINT
- PERIMETER EROSION BARRIER
- ▨ EROSION CONTROL BLANKET



LOCATION NO. 47

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+00.00	1287332.28	2568258.85
POT	10+00.00	1287632.21	2568252.30
POT	14+00.00	1288032.11	2568243.55

LOCATION NO. 47  
MAJOR COLLECTOR  
ADT 400 (2011)  
DESIGN SPEED 50 MPH

MODEL: Default  
FILE NAME: 2578.1-2578.1-Logan\_Co\_Plan47.dgn



JOB = 2578.1  
FILE NAME = 2578.1-shl-plan47\_49.dgn  
PLOT SCALE = 40.00' / in.  
PLOT DATE = 1/8/2021

DESIGNED - CGF  
DRAWN - SJS  
CHECKED - THF  
DATE - 8/06/2020

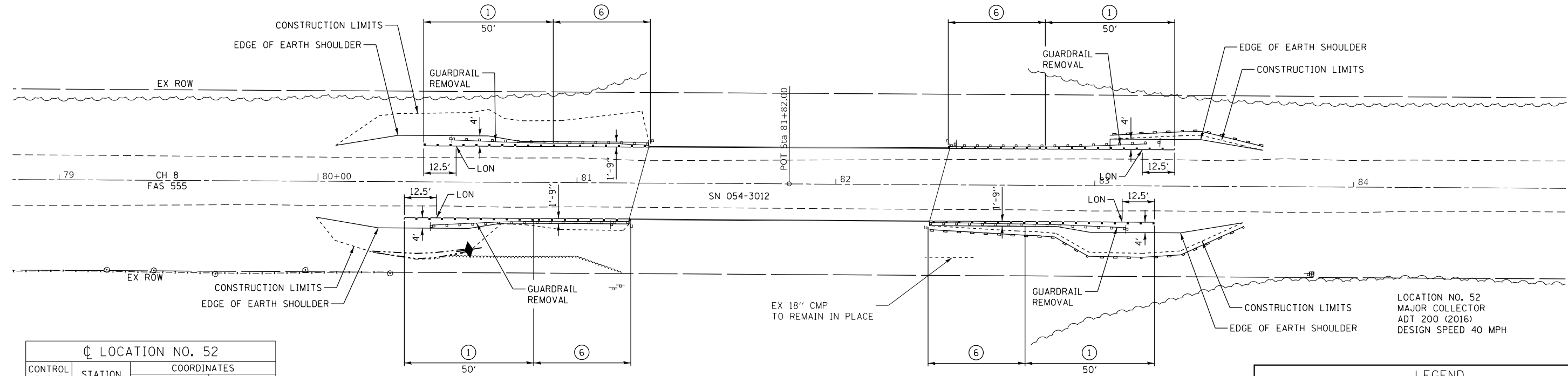
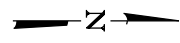
REVISED -  
REVISED -  
REVISED -  
REVISED -

LOGAN COUNTY  
GUARDRAIL IMPROVEMENTS

PLAN - LOCATIONS NO. 47 & 49

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			18-00125-00-SP	LOGAN
			CONTRACT NO. 93761	
		ILLINOIS	FED. AID PROJECT	



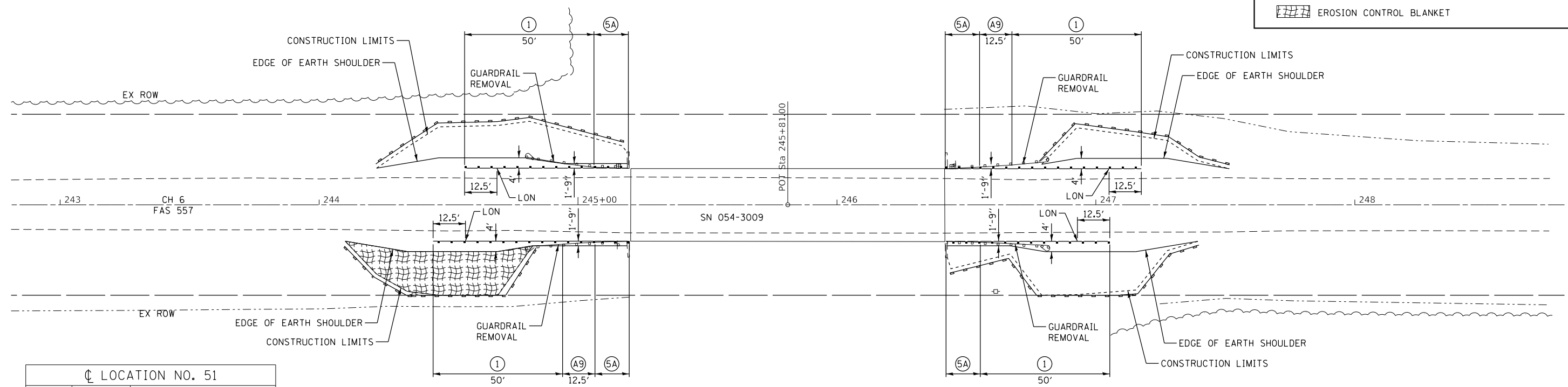
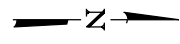
LOCATION NO. 52

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	78+00.00	1193691.45	2578151.73
POT	81+82.00	1194073.42	2578147.48
POT	86+00.00	1194491.40	2578142.84

LOCATION NO. 52  
MAJOR COLLECTOR  
ADT 200 (2016)  
DESIGN SPEED 40 MPH

LEGEND

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ⑥ TRAFFIC BARRIER TERMINAL, TYPE 6
- ⑤A TRAFFIC BARRIER TERMINAL, TYPE 5A
- ⑨A STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- LON LENGTH OF NEED POINT
- PERIMETER EROSION BARRIER
- ▨ EROSION CONTROL BLANKET



LOCATION NO. 51

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	242+00.00	1210698.65	2572653.13
POT	245+81.00	1211079.60	2572646.71
POT	250+00.00	1211498.54	2572639.66

USE 1:2 SLOPES AND  
EROSION CONTROL BLANKET

LOCATION NO. 51  
MAJOR COLLECTOR  
ADT 250 (2016)  
DESIGN SPEED 40 MPH

MODEL: Default  
FILE NAME: 25781-18-00-SP-Plan-51.dgn



JOB = 2578.1  
FILE NAME = 2578.1-18-00-SP-Plan-51.dgn  
PLOT SCALE = 40.00' / in.  
PLOT DATE = 1/8/2021

DESIGNED - CGF  
DRAWN - SJS  
CHECKED - THF  
DATE - 8/06/2020

REVISED -  
REVISED -  
REVISED -  
REVISED -

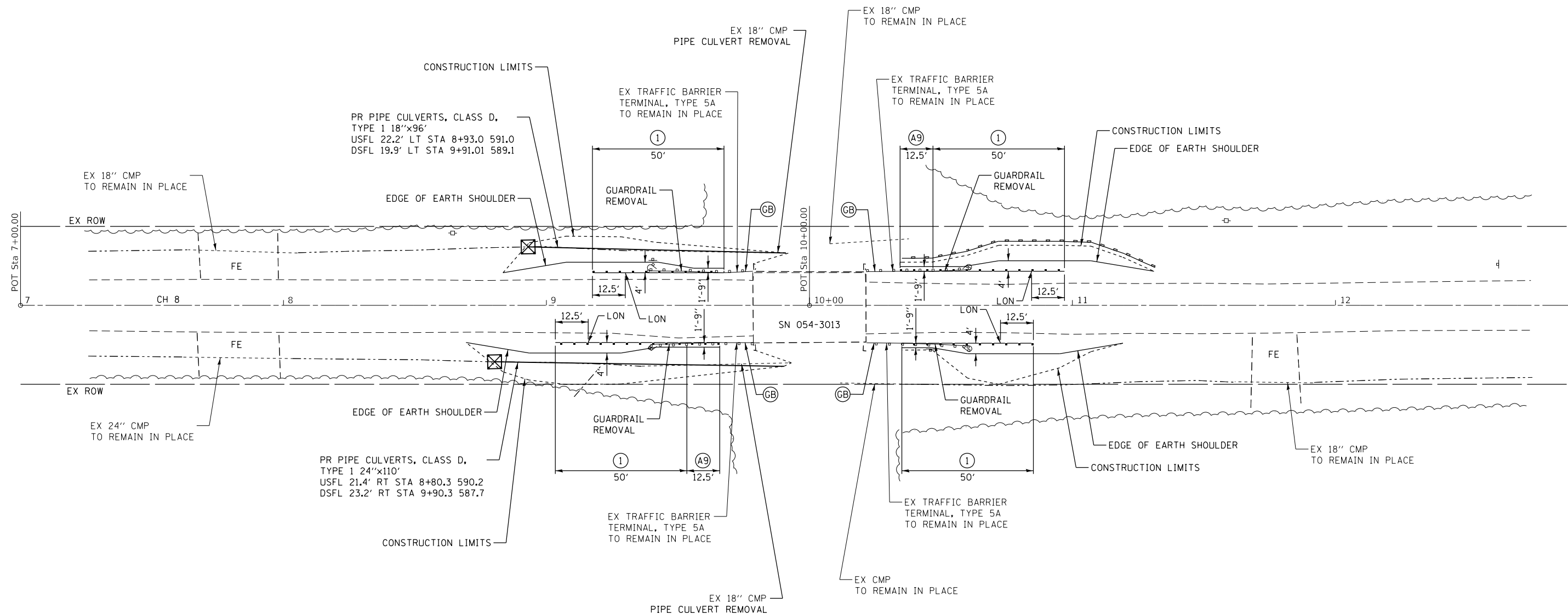
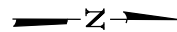
LOGAN COUNTY  
GUARDRAIL IMPROVEMENTS

PLAN - LOCATIONS NO. 51 & 52

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00125-00-SP	LOGAN	33	29
CONTRACT NO. 93761				
		ILLINOIS	FED. AID PROJECT	

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- Ⓐ9 STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- ⓄB GUARDRAIL BLOCKS
- LON LENGTH OF NEED POINT
- ☒ INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER



LOCATION NO. 53			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+00.00	1185086.93	2578306.11
POT	10+00.00	1185386.93	2578305.76
POT	13+00.00	1185686.93	2578305.42

LOCATION NO. 53  
 MAJOR COLLECTOR  
 ADT 200 (2016)  
 DESIGN SPEED 40 MPH

MODEL: Default  
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 PLOT DATE = 1/8/2021

DESIGNED - CGF  
 DRAWN - SJS  
 CHECKED - THF  
 DATE - 9/17/2020

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**LOGAN COUNTY  
 GUARDRAIL IMPROVEMENTS**

**PLAN - LOCATION NO. 53**

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			18-00125-00-SP	LOGAN
			CONTRACT NO. 93761	
		ILLINOIS	FED. AID PROJECT	

LEGEND

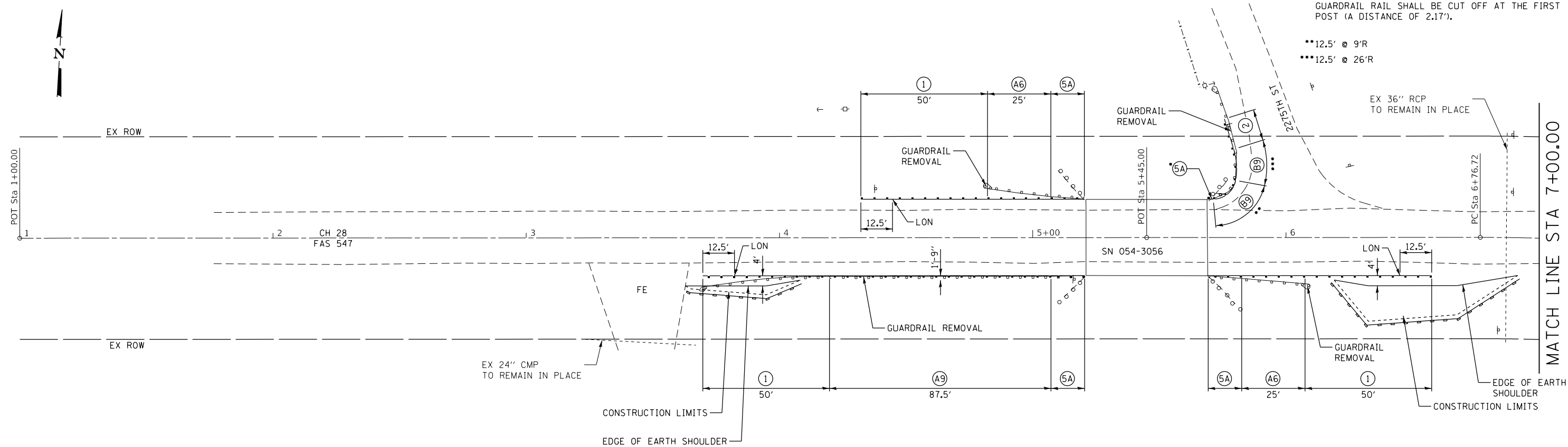
- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ② TRAFFIC BARRIER TERMINAL, TYPE 2
- ⑤A TRAFFIC BARRIER TERMINAL, TYPE 5A (SPECIAL)
- ⑤A TRAFFIC BARRIER TERMINAL, TYPE 5A
- ⑥A STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- ⑨A STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- ⑨B STEEL PLATE BEAM GUARDRAIL, TYPE B, 9 FOOT POSTS
- LON LENGTH OF NEED POINT
- PERIMETER EROSION BARRIER

SEC 26, T21N, R1W, 3RD PM

NOTE:

• TRAFFIC BARRIER TERMINAL, TYPE 5A (SPECIAL) SHALL BE USED AND SHALL BE PAID FOR PER 1 EACH. ONLY ONE POST SHALL BE PLACED AND GUARDRAIL RAIL SHALL BE CUT OFF AT THE FIRST POST (A DISTANCE OF 2.17').

- 12.5' @ 9'R
- 12.5' @ 26'R



SEC 35, T21N, R1W, 3RD PM

LOCATION NO. 55

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	1+00.00	1302175.98	2574063.30
POT	5+45.00	1302205.16	2574507.34
PC	6+76.72	1302213.80	2574638.78
PI	7+91.93	1302221.35	2574753.74
PT	9+05.75	1302198.03	2574866.57

LOCATION NO. 55  
 MAJOR COLLECTOR  
 ADT 550 (2016)  
 DESIGN SPEED 50 MPH

MODEL: Default  
 FILE NAME: I:\25781\_Logan\_Co\_PEL\CADD\Sheet\25781-1-ehp-plan55\_56.dgn



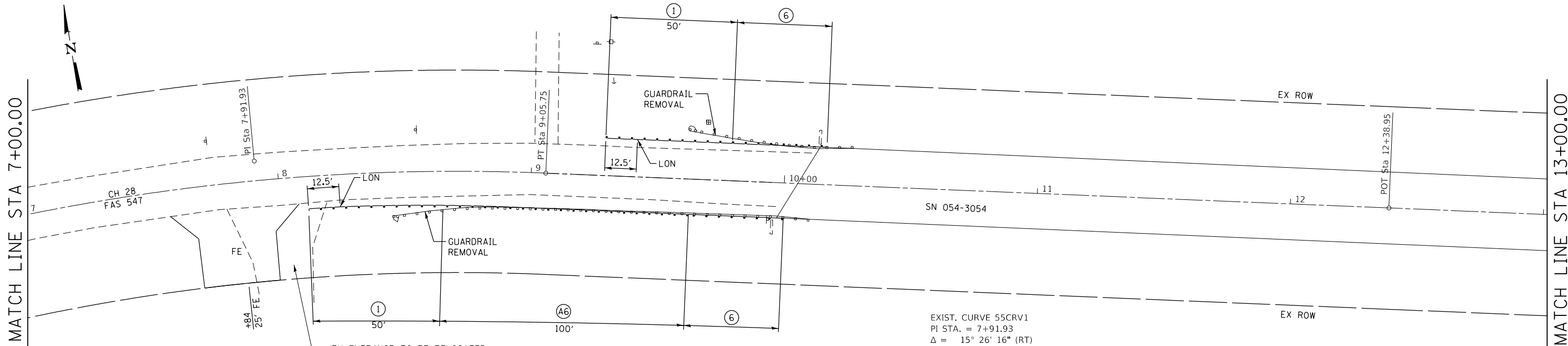
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FILE NAME = 2578.1-ehp-plan55_56.dgn	DRAWN - SJS	REVISED -
PLOT SCALE = 40.00' / in.	CHECKED - THF	REVISED -
PLOT DATE = 1/8/2021	DATE - 8/06/2020	REVISED -

LOGAN COUNTY  
 GUARDRAIL IMPROVEMENTS

PLAN - LOCATION NO. 55

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00125-00-SP	LOGAN	33	31
CONTRACT NO. 93761				
ILLINOIS FED. AID PROJECT				



MATCH LINE STA 7+00.00

MATCH LINE STA 13+00.00

LOCATION NO. 56

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
PC	6+76.72	1302213.80	2574638.78
PI	7+91.93	1302221.35	2574753.74
PT	9+05.75	1302198.03	2574866.57
POT	12+38.95	1302130.59	2575192.87
POT	18+72.44	1302002.36	2575813.24

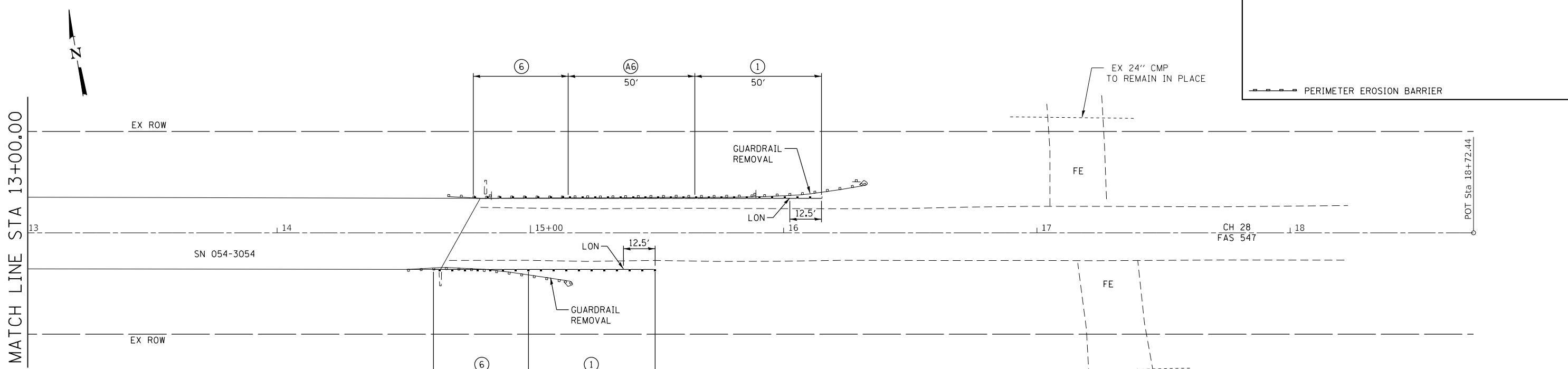
EXIST. CURVE 55CRV1  
 PI STA. = 7+91.93  
 $\Delta = 15^\circ 26' 16''$  (RT)  
 $D = 6^\circ 44' 26''$   
 $R = 850.00'$   
 $T = 115.21'$   
 $L = 229.02'$   
 $E = 7.77'$   
 $e = \text{---}$   
 $T.R. = \text{---}$   
 $S.E. RUN = \text{---}$   
 $P.C. STA. = 6+76.72$   
 $P.T. STA. = 9+05.75$

LOCATION NO. 56  
 MAJOR COLLECTOR  
 ADT 550 (2016)  
 DESIGN SPEED 50 MPH

LEGEND

- (1) TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- (6) TRAFFIC BARRIER TERMINAL, TYPE 6
- (A6) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- LON LENGTH OF NEED POINT

--- PERIMETER EROSION BARRIER



MATCH LINE STA 13+00.00

POT Sta 18+72.44

LOCATION NO. 56

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
PC	6+76.72	1302213.80	2574638.78
PI	7+91.93	1302221.35	2574753.74
PT	9+05.75	1302198.03	2574866.57
POT	12+38.95	1302130.59	2575192.87
POT	18+72.44	1302002.36	2575813.24

LOCATION NO. 56  
 MAJOR COLLECTOR  
 ADT 550 (2016)  
 DESIGN SPEED 50 MPH

MODEL: Default  
 FILE NAME: 25781.1-Logan\_Co\_REI\CADD\Sheet\25781.1-ht-plans5\_56.dgn



JOB = 2578.1  
 FILE NAME = 2578.1-ht-plans5\_56.dgn  
 PLOT SCALE = 40.00' / in.  
 PLOT DATE = 1/8/2021

DESIGNED - CGF	REVISED -
DRAWN - SJS	REVISED -
CHECKED - THF	REVISED -
DATE - 8/06/2020	REVISED -

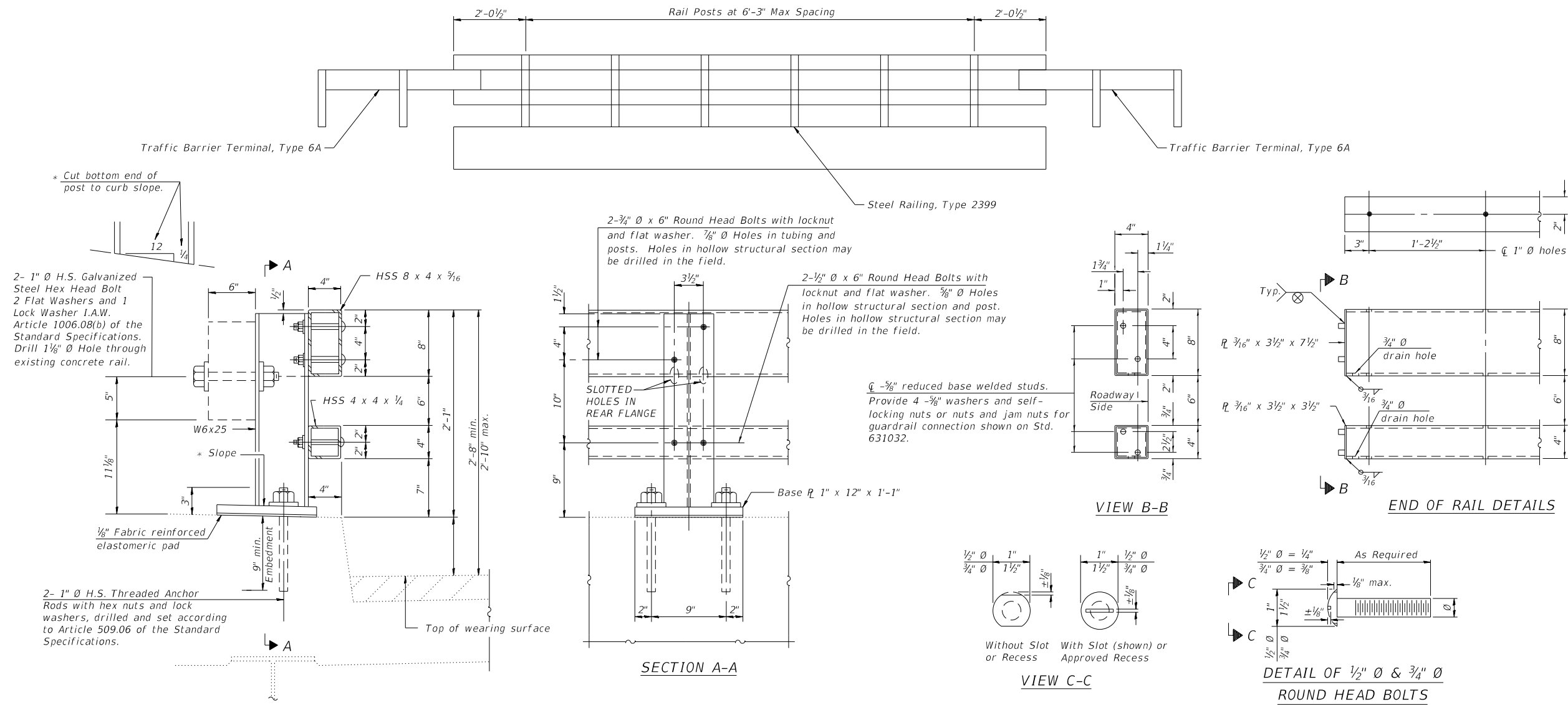
LOGAN COUNTY  
 GUARDRAIL IMPROVEMENTS

PLAN - LOCATION NO. 56

SCALE: SHEET OF SHEETS STA. TO STA.

VARIOUS ROUTES	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00125-00-SP	LOGAN	33	32
CONTRACT NO. 93761				
ILLINOIS FED. AID PROJECT				



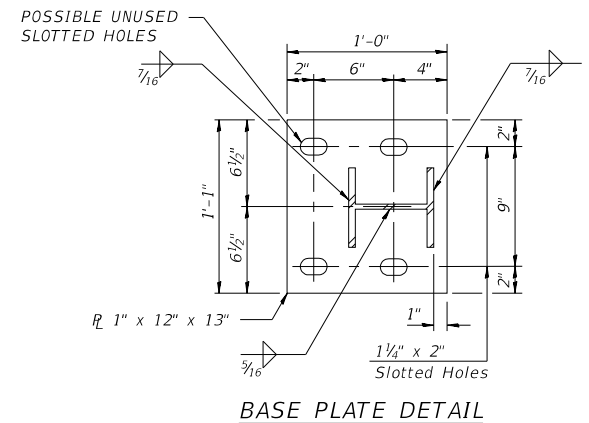


\* Cut bottom end of post to curb slope.

2- 1" Ø H.S. Galvanized Steel Hex Head Bolt  
2 Flat Washers and 1 Lock Washer I.A.W.  
Article 1006.08(b) of the Standard Specifications.  
Drill 1 1/8" Ø Hole through existing concrete rail.

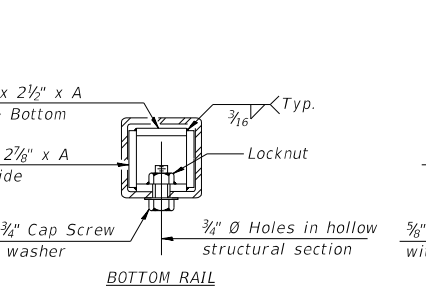
2- 1" Ø H.S. Threaded Anchor Rods with hex nuts and lock washers, drilled and set according to Article 509.06 of the Standard Specifications.

SECTION AT RAIL POST

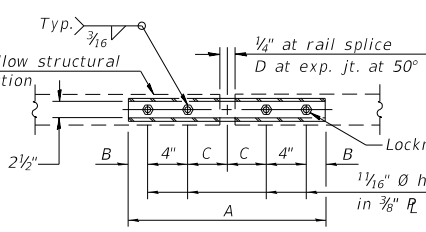


BASE PLATE DETAIL

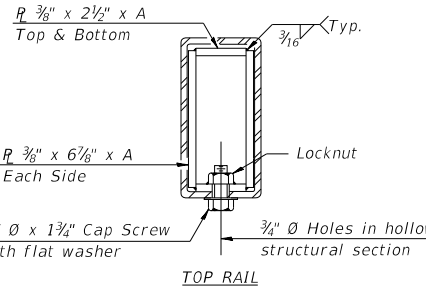
SECTION A-A



SECTIONS AT RAIL SPLICE

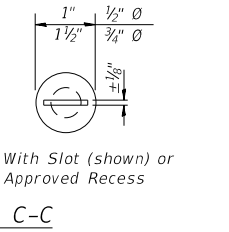


PLAN-BOTT. SPLICE R TYPICAL

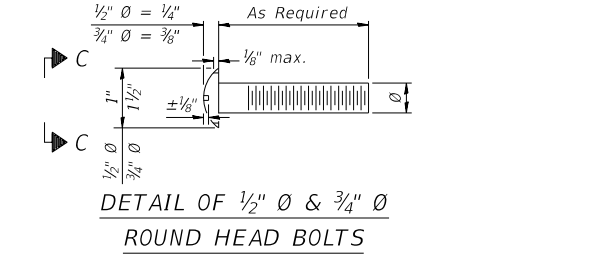


RAIL SPLICE CONNECTION AT EXPANSION JT.

VIEW B-B



END OF RAIL DETAILS



DETAIL OF 1/2" Ø & 3/4" Ø ROUND HEAD BOLTS

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	334

NOTE: SHEET BASED ON IDOT DRAWING R-31



JOB = 2578.1  
FILE NAME = 2578.1-Steel\_Railing\_2399.dgn  
PLOT SCALE = 40:0.000 1" = 10'  
PLOT DATE = 1/8/2021

DESIGNED - CGF  
DRAWN - CGF  
CHECKED - THF  
DATE - 10/12/2020

REVISED -  
REVISED -  
REVISED -  
REVISED -

LOGAN COUNTY  
GUARDRAIL IMPROVEMENTS

STEEL RAILING, TYPE 2399  
LOCATION NO. 3 & LOCATION NO. 11  
SCALE: SHEET NO. OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	18-00125-00-SP	LOGAN	33	33
CONTRACT NO. 93761				
FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT			