

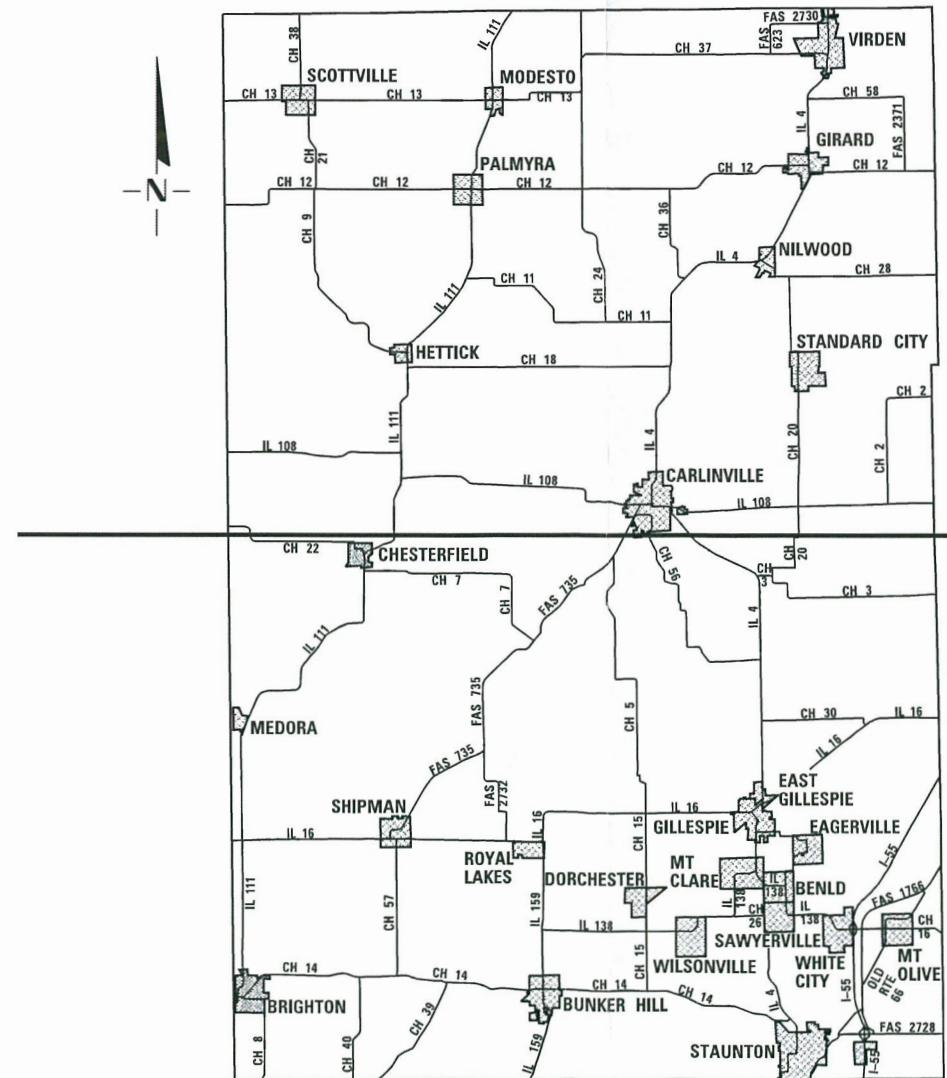
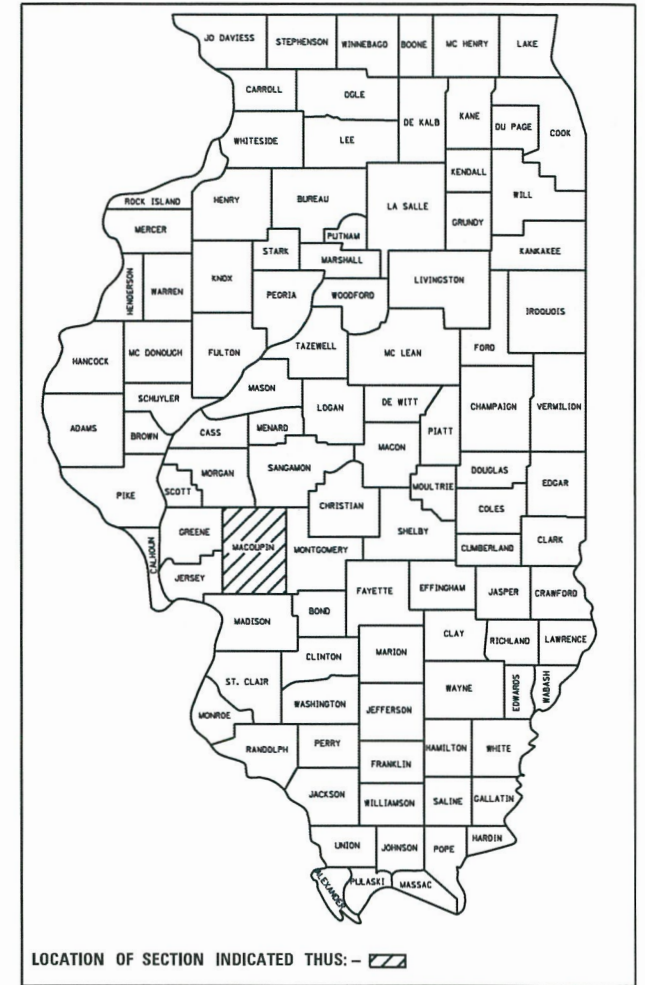
04-26-2019 LETTING ITEM 119

ROUTES VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	1
FEDERAL AID PROJECT	ILLINOIS	CONTRACT NO. 93723		

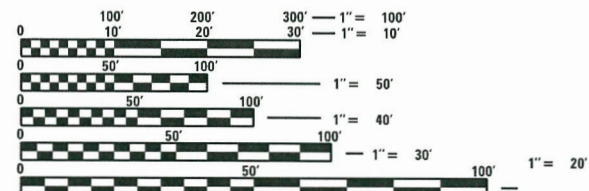
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION PLANS FOR PROPOSED HIGHWAY SAFETY IMPROVEMENT PROJECT

**VARIOUS ROUTES
SECTION 16-00100-00-GR
PROJECT D04I(018)
MACOUPIN COUNTY
C-96-015-19**

SEE SHEET 2 FOR INDEX OF SHEETS AND
LIST OF ILLINOIS DOT HIGHWAY STANDARDS



SEE NORTH MAP
SEE SOUTH MAP



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. 93723

LAYOUT
MACOUPIN COUNTY
COUNTY WIDE
(NOT TO SCALE)



Kimberly S. Cummins 1/14/19
ILLINOIS PROFESSIONAL NO. 56816
(Expires 11/30/19)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED January 14 . 2019
Thomas A. Reinhart
MACOUPIN COUNTY ENGINEER

PASSED 2-15 . 2019
Ch. L. Ebell
DISTRICT SIX ENGINEER OF
LOCAL ROADS AND STREETS

RELEASED FOR
BID BASED ON
LIMITED REVIEW 2-15 . 2019
Jeffrey M. South C.E.T.
REGION FOUR ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

INDEX OF SHEETS

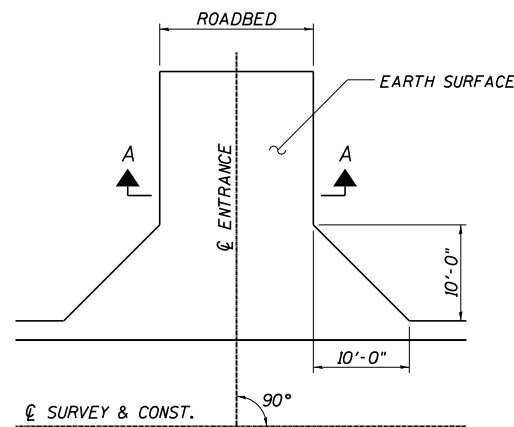
SHEET NO.	TITLE
1	COVER SHEET
2	GENERAL NOTES, STANDARDS AND ENTRANCE DETAILS
3-4	SUMMARY OF QUANTITIES,
5	TYPICAL CROSS SECTIONS
6-9	SCHEDULES OF QUANTITIES
10-11	LOCATION MAPS
12-49	PLAN SHEETS
50	STEEL PLATE BEAM GUARDRAIL, SHORT RADIUS
51	EROSION CONTROL CURB

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

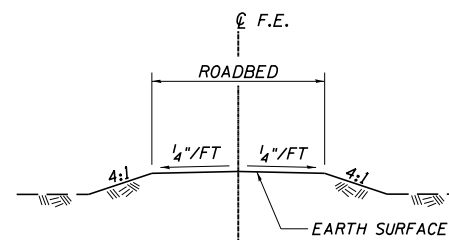
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
602306-03	INLET - TYPE B
602601-06	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
604001-04	FRAME AND LIDS TYPE 1
630001-12	STEEL PLATE BEAM GUARDRAIL
630106-02	LONG-SPAN GUARDRAIL OVER CULVERT
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
631031-15	TRAFFIC BARRIER TERMINAL, TYPE 6
631046-04	TRAFFIC BARRIER TERMINAL, TYPE 10
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
701316-12	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR, FOR SPEEDS > 45 MPH
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
725001-01	OBJECT AND TERMINAL MARKERS
728001-01	TELESCOPING STEEL SIGN SUPPORT
731001-01	BASE FOR TELESCOPING STEEL SIGN SUPPORT
782001-01	CURB REFLECTORS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR 26-3	STEEL PLATE BEAM GUARDRAIL 29" HEIGHT
BLR 27-1	TRAFFIC BARRIER TERMINAL, TYPE 5A

GENERAL NOTES

- THIS PROJECT IS LOCATED ON VARIOUS ROUTES IN MACOUPIN 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.
- NO OVERNIGHT LANE CLOSURES WILL BE ALLOWED.
- 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 OF 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.
- SEEDING OPERATION SHALL BE COMPLETED WITHIN 3 DAYS OF COMPLETING GUARDRAIL WORK.
- ALL GUARDRAIL REMOVED AND 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 PAYITEMS.



FIELD ENTRANCE DETAIL



**SECTION A-A
EARTH FE**



JOB = 2464.1
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 PLOT SCALE = *SCALE*
 PLOT DATE = *DATE*

DESIGNED - CGF
 DRAWN - SJS
 CHECKED - NAK
 DATE - 7/03/2018

REVISED -
 REVISED -
 REVISED -
 REVISED -

**MACOUPIN COUNTY
GUARDRAIL IMPROVEMENTS**

**GENERAL NOTES, STANDARDS
AND ENTRANCE DETAILS**

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

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	2
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT	
			CONTRACT NO. 93723	

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	2,780	2,780
Δ 21400100	GRADING AND SHAPING DITCHES	FOOT	116	116
25100630	EROSION CONTROL BLANKET	SQ YD	4,141	4,141
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	283	283
28000305	TEMPORARY DITCH CHECKS	FOOT	16	16
28000400	PERIMETER EROSION BARRIER	FOOT	15,716	15,716
28000500	INLET AND PIPE PROTECTION	EACH	12	12
Δ 48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	55	55
Δ 50105220	PIPE CULVERT REMOVAL	FOOT	125	125
Δ 542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	606	606
Δ 542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	48	48
Δ 542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	40	40
Δ 60240215	INLETS, TYPE B, TYPE 1 FRAME, CLOSED LID	EACH	1	1
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	2,862.5	2,862.5
63000003	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS	FOOT	12,925.0	12,925.0
63000007	STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS	FOOT	350.0	350.0
63000009	STEEL PLATE BEAM GUARDRAIL, TYPE B, 9 FOOT POSTS	FOOT	325.0	325.0

• 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
63000350	LONG-SPAN GUARDRAIL OVER CULVERT, 12 FT 6 IN SPAN	FOOT	150.0	150.0
63000360	LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN	FOOT	87.5	87.5
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	3	3
63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	7	7
63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	12	12
63100105	TRAFFIC BARRIER TERMINAL, TYPE 10	EACH	16	16
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	150	150
63200310	GUARDRAIL REMOVAL	FOOT	22,938.0	22,938.0
67100100	MOBILIZATION	L SUM	1	1
* 70100100	TRAFFIC CONTROL AND PROTECTION, STANDARD 701316	EACH	1	1
* 70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1	1
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
72000100	SIGN PANEL - TYPE 1	SQ FT	9	9
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	150	150
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	58	58
78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	572	572
78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	193	193

• SEE SPECIAL PROVISIONS

Δ SPECIALTY ITEMS

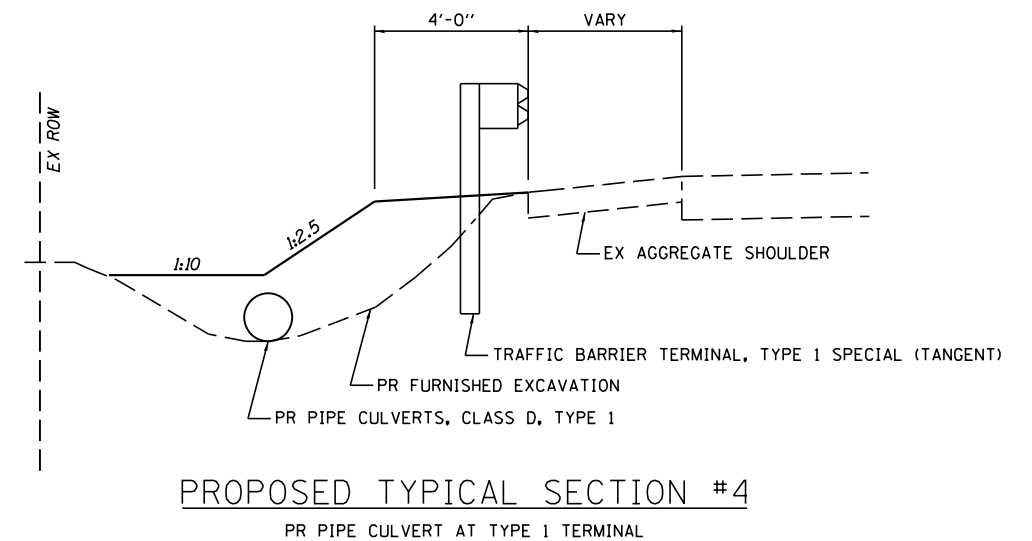
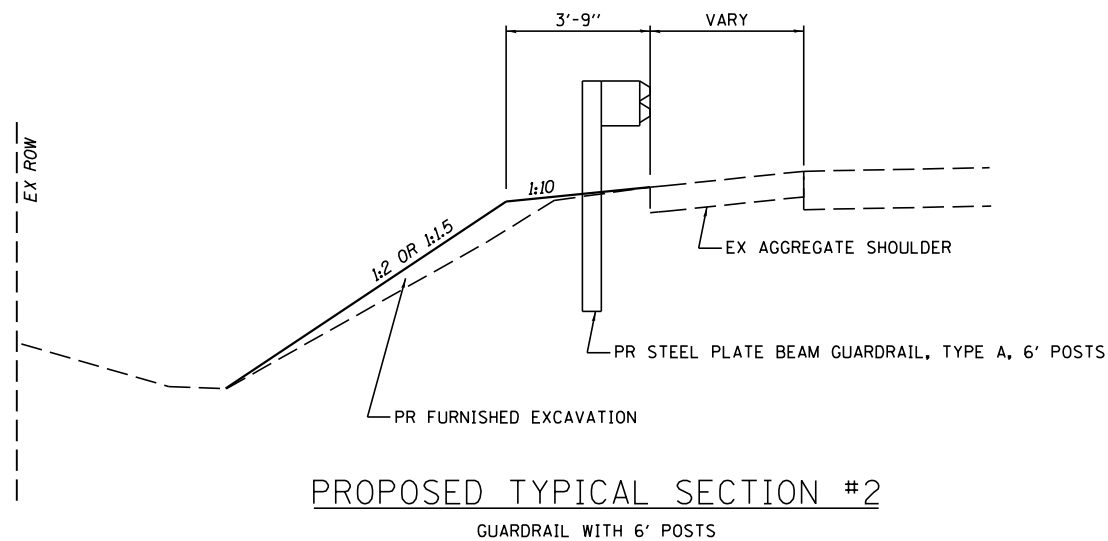
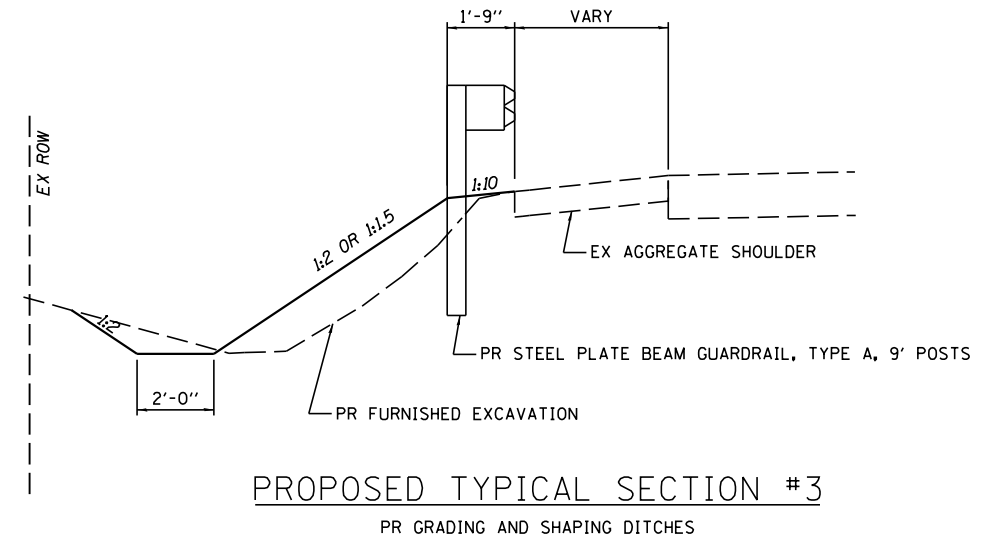
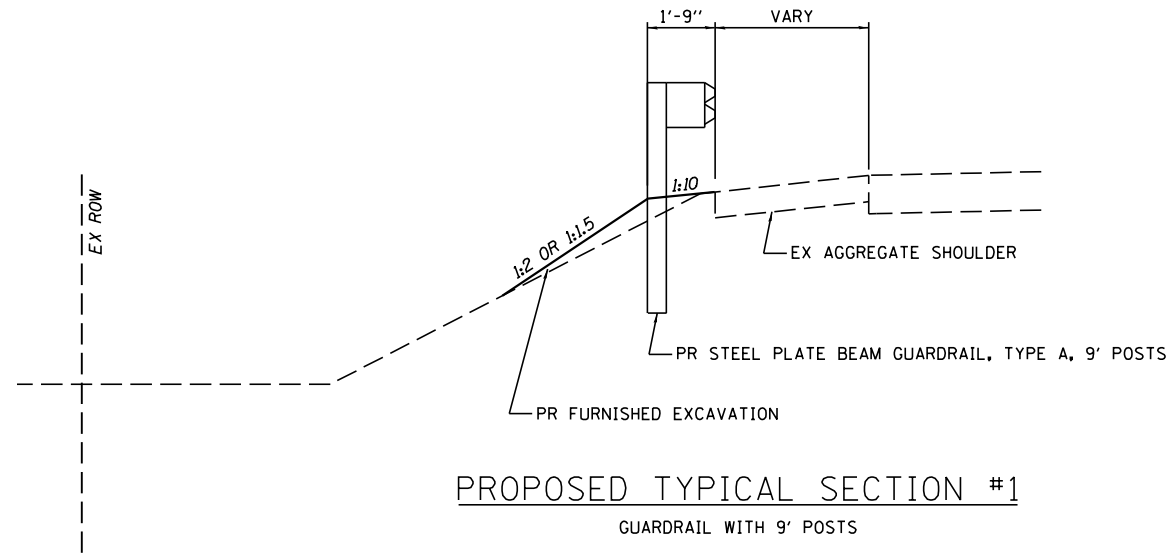


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MACOUPIN COUNTY
GUARDRAIL IMPROVEMENTS

SUMMARY OF QUANTITIES

SCALE:	SHEET NO. OF SHEETS	STA. TO STA.	ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
				16-00100-00-GR	MACOUPIN	51	3
			FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
			CONTRACT NO. 93723				



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LOCATION	QUADRANT	FURNISHED EXCAVATION
		CU YD
5	LT	15
5	RT	15
6N	LT	10
7	NW	15
7	SW	10
10	NW	20
10	NE	15
11	LT	65
11	RT	75
12	LT	100
12	RT	100
13	LT	75
13	RT	110
14	LT	130
14	RT	105
16	NW	10
16	SE	15
16	SW	5
17	SW	40
17	SE	25
17	NW	85
17	NE	140
20	RT	10
21	LT	95
21	RT	35
31	NE	10
31	SE	15
33	LT	75
33	RT	135
34	RT	70
39	LT	30
39	RT	45
40	LT	70
41	NW	65
41	SW	5
41	SE	15
41	NE	25
48	NE	10
48	SE	30
48	SW	20
48	NW	15
52	LT	25
52	RT	85
53	LT	35
53	RT	35
55	NW	30
55	SW	45
55	NE	125
55	SE	110
58	LT	20
59	LT	100
60	LT	55
64	NE	15
66	NE	10
66	SE	5
67	NE	40
67	NW	60
67	SE	15
67	SW	15
TOTAL		2,780

LOCATION	QUADRANT	GRADING AND SHAPING DITCHES	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION	
		FOOT	SQ YD	POUND	FOOT	FOOT	EACH	
5	LT		16	3		188		
5	RT		7	2		83		
6N	LT			1		51		
7	NW			2		167		
7	SW			2		250		
10	NW			2		133		
10	NE			2		87		
11	LT		120	6		397		
11	RT		81	7		327		
12	LT		64	9		325	1	
12	RT		195	9		323	1	
13	LT		53	7		314	1	
13	RT		320	16		919		
14	LT		400	16		1482		
14	RT		329	14		1322		
16	NW			2		104		
16	SE			2		101		
16	SW			1		95		
17	SW			3		579		
17	SE			3		91		
17	NW		519	13		1019		
17	NE			21		679		
20	RT		19	3		348		
21	LT		32	4		48	2	
21	RT			3		141	1	
31	NE			1		75		
31	SE			2		81		
33	LT		290	7		285		
33	RT		174	12		377		
34	RT		76	10		411		
39	LT		87	3		167		
39	RT		121	8		757		
40	LT		269	8		499		
41	NW		78	3		174		
41	SW		39	1		74		
41	SE		15	2		241		
41	NE			4		204		
48	NE		81	2		80		
48	SE	12	24	6		59	1	
48	SW			1		85		
48	NW			2		108		
52	LT		47	4		209		
52	RT		50	6		175	1	
53	LT	32	18	5	8	148	1	
53	RT		18	2		112	1	
55	NW		65	1		125		
55	SW		118	2		123		
55	NE			3		30	1	
55	SE			3		125		
58	LT		80	5		198		
59	LT		180	8		255		
60	LT		91	5		265		
64	NE			2		174		
66	NE			2		79		
66	SE			1		77		
67	NE		12	3		133		
67	NW		38	3		53	1	
67	SE	72	6	2	8	57		
67	SW		10	2		128		
TOTAL			116	4,141	283	16	15,716	12

LOCATION	QUADRANT	SEEDING, CLASS 2 (SPECIAL)
		ACRE
5	LT	0.030
5	RT	0.018
6N	LT	0.007
7	NW	0.024
7	SW	0.024
10	NW	0.021
10	NE	0.016
11	LT	0.057
11	RT	0.066
12	LT	0.094
12	RT	0.085
13	LT	0.069
13	RT	0.156
14	LT	0.160
14	RT	0.140
16	NW	0.015
16	SE	0.020
16	SW	0.012
17	SW	0.034
17	SE	0.026
17	NW	0.128
17	NE	0.209
20	RT	0.026
21	LT	0.039
21	RT	0.034
31	NE	0.011
31	SE	0.015
33	LT	0.067
33	RT	0.117
34	RT	0.104
39	LT	0.034
39	RT	0.079
40	LT	0.084
41	NW	0.027
41	SW	0.009
41	SE	0.018
41	NE	0.037
48	NE	0.024
48	SE	0.061
48	SW	0.012
48	NW	0.020
52	LT	0.036
52	RT	0.062
53	LT	0.054
53	RT	0.021
55	NW	0.012
55	SW	0.021
55	NE	0.029
55	SE	0.031
58	LT	0.047
59	LT	0.080
60	LT	0.054
64	NE	0.024
66	NE	0.015
66	SE	0.010
67	NE	0.034
67	NW	0.029
67	SE	0.016
67	SW	0.022
TOTAL		2.83
ROUNDED TOTAL		3.00

LOCATION	QUADRANT	INLETS, TYPE B, TYPE 1 FRAME, CLOSED LID	PIPE CULVERTS, CLASS D, TY 1 15"	PIPE CULVERTS, CLASS D, TY 1 18"	PIPE CULVERTS, CLASS D, TY 1 24"
		EACH	FOOT	FOOT	FOOT
12	LT		74		
12	RT		82		
13	LT		44		
21	LT		106		
21	RT		46		
48	SE				40
52	RT	1	42		
53	LT		50		
53	RT		86		
55	NE		76		
67	NW			48	
TOTAL		1	606	48	40

LOCATION	QUADRANT	PIPE CULVERT REMOVAL
		FOOT
48	SE	40
53	LT	32
53	RT	53
TOTAL		125

LOCATION	QUADRANT	SIGN PANEL - TYPE 1	TELESCOPING STEEL SIGN SUPPORT
		SQ FT	FOOT
47	LT	9	58
TOTAL		9	58

LOCATION	QUADRANT	RAIL ELEMENT PLATES (RADIUS)	REPAIR STEEL PLATE BEAM GUARDRAIL, TYPE A
		EACH	FOOT
9	NW	1	12.5
TOTAL		1	12.5

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 Macoupin Guardrail FEI & PEI CAD Sheets 24641.dwg



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 PLOT DATE = 3/6/2019

DESIGNED - CGF
 DRAWN - SJS
 CHECKED - NAK
 DATE - 7/24/2018

MACOUPIN COUNTY GUARDRAIL IMPROVEMENTS

SCHEDULE OF QUANTITIES

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	6
CONTRACT NO. 93723				
SCALE:		SHEET OF SHEETS	STA.	TO STA.
		ILLINOIS FED. AID PROJECT		

LOCATION	QUADRANT	GUARDRAIL REMOVAL	GUARDRAIL REMOVAL SPECIAL	SPBGR, TY A, 6 FOOT POSTS	SPBGR, TY B, 6 FOOT POSTS	SPBGR, TY A, 9 FOOT POSTS	SPBGR, TY B, 9 FOOT POSTS	LONG-SPAN GUARDRAIL OVER CULVERT, 12 FT 6 IN SPAN	LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN	REMOVAL AND REPLACEMENT OF SPBGR, RAIL ELEMENT	STEEL PLATE BEAM GUARDRAIL, TYPE A (SPECIAL)	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	TBT, TY 1 (SPECIAL) TANGENT	TBT, TY 2	TBT, TY 5A	TBT, TY 6	TBT, TY 10	TERMINAL MARKER DIRECT APPLIED	GUARDRAIL BLOCKS
		FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	50' EACH	EACH	EACH	EACH	EACH	EACH	EACH
1	NE	100.0		50.0	25.0								1					1	
1	NW	87.5			25.0								1					1	
1	SE	75.0			25.0								1					1	
1	SW	87.5		50.0	25.0								1					1	
2	NE	62.5		62.5									1					1	5
2	NW	62.5		12.5									1					1	5
2	SE	62.5		12.5									1					1	5
2	SW	62.5		50.0									1					1	5
3	LT	175.0	50.0	62.5	50.0						50.0		2					2	
3	RT	175.0	50.0	62.5	50.0						50.0		2					2	
5	LT	200.0				100.0							2					2	
5	RT	200.0				112.5							2					2	
6	LT	200.0		100.0									2					2	
6N	LT	100.0				50.0							2					2	
7	NW	200.0				100.0						50.0	1	1				1	
7	SW	250.0				150.0						50.0	1	1				1	
7	RT	437.5		350.0									2					2	
8	NE	287.5		200.0								37.5	1					1	
8	SE	50.0										37.5	1					1	
10	NW	62.5											1			1		1	
10	NE	25.0											1					1	5
10	SW	12.5		25.0									1					1	5
10	SE	62.5											1			1		1	
11	LT	325.0				225.0							2					2	
11	RT	250.0				150.0							2					2	
12	LT	325.0				225.0							2					2	
12	RT	325.0				225.0							2					2	
13	LT	300.0				200.0							2					2	
13	RT	825.0				725.0							2					2	
14	LT	1425.0				1325.0							2					2	
14	RT	1425.0				1325.0							2					2	
16	NE	75.0		12.5									1					1	5
16	NW												1		1			1	
16	SE												1		1			1	
16	SW	75.0				12.5							1					1	5
17	SW	1162.5				962.5							3			1		3	
17	SE	625.0				537.5							1			1		1	
17	NW	950.0				750.0							3			1		3	
17	NE	650.0				550.0							1			1		1	
20	LT	400.0		312.5									2					2	
20	RT	550.0		262.5		200.0							2					2	
21	LT	100.0						37.5					2					2	
21	RT	100.0				25.0		37.5					2					2	
22	NE	50.0											1					1	
22	NW	50.0											1					1	
22	SE	50.0											1					1	
22	SW	50.0											1					1	
26	SW												1					1	
31	NE	212.5				162.5							1					1	5
31	NW	737.5				687.5							1					1	5
31	SE	212.5				162.5							1					1	5
31	SW	737.5				687.5							1					1	5
32	NE	100.0				37.5	25.0						1				1	1	
32	NW	100.0				25.0	25.0						1				1	1	
32	SE	100.0				25.0	25.0						1				1	1	
32	SW	100.0				62.5	25.0						1				1	1	
33	LT	250.0				175.0							2					2	
33	RT	375.0				262.5							2					2	
34	LT	187.5				87.5							2					2	
34	RT	387.5				287.5							2					2	
39	LT	250.0		150.0									2					2	
39	RT	675.0				575.0							2					2	

MODEL: MODELNAMES
FILE: MODEL, FILES



JOB = 2464.1
FILE NAME = \$FILES\$
PLOT SCALE = \$SCALES\$
PLOT DATE = \$DATES\$

DESIGNED - CGF
DRAWN - SJS
CHECKED - NAK
DATE - 7/24/2018

REVISED -
REVISED -
REVISED -
REVISED -

**MACOUPIN COUNTY
GUARDRAIL IMPROVEMENTS**

SCHEDULE OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 93723	

LOCATION	QUADRANT	GUARDRAIL REMOVAL	GUARDRAIL REMOVAL SPECIAL	SPBGR, TY A, 6 FOOT POSTS	SPBGR, TY B, 6 FOOT POSTS	SPBGR, TY A, 9 FOOT POSTS	SPBGR, TY B, 9 FOOT POSTS	LONG-SPAN GUARDRAIL OVER CULVERT, 12 FT 6 IN SPAN	LONG-SPAN GUARDRAIL OVER CULVERT, 18 FT 9 IN SPAN	REMOVAL AND REPLACEMENT OF SPBGR, RAIL ELEMENT	STEEL PLATE BEAM GUARDRAIL, TYPE A (SPECIAL)	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	TBT, TY 1 (SPECIAL) TANGENT	TBT, TY 2	TBT, TY 5A	TBT, TY 6	TBT, TY 10	TERMINAL MARKER DIRECT APPLIED	GUARDRAIL BLOCKS	
		FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	FOOT	50' EACH	EACH	EACH	EACH	EACH	EACH	EACH
40	LT	425.0				325.0							2						2	
41	NW	137.5				87.5							1						1	5
41	SW	187.5				137.5							1						1	5
41	SE	237.5				187.5							1						1	5
41	NE	187.5				137.5							1						1	5
45	NE	62.5											1			1			1	
45	SW	62.5											1			1			1	
47	LT	37.5											1						1	
48	NE	37.5				12.5							1		1				1	
48	SE												1		1				1	
48	SW	37.5				12.5							1		1				1	
48	NW												1		1				1	
49	SW	150.0		100.0									1		1				1	
49	SE	75.0		25.0									1						1	5
49	NW	75.0		25.0									1						1	5
49	NE	75.0		37.5									1						1	5
52	LT	112.5				12.5	37.5			12.5			2						2	
52	RT	112.5				12.5	37.5			12.5			2						2	
53	LT	137.5				25.0		37.5					2						2	
53	RT	137.5				25.0		37.5					2						2	
55	NW												1			1			1	
55	SW												1			1			1	
55	NE												1			1			1	
55	SE												1			1			1	
58	LT	175.0				75.0							2						2	
59	LT	275.0				325.0							2						2	
60	LT	300.0				200.0							2						2	
62	LT	212.5		112.5									2						2	
63	SW	200.0		137.5									2						2	
63	SE	150.0		87.5									2						2	
63	NW	150.0		87.5									2						2	
63	NE	150.0		100.0									2						2	
64	NE	100.0				62.5	25.0						1				1		1	
64	NW	100.0		12.5	25.0								1				1		1	
64	SE	50.0			25.0							25.0						1		
64	SW	100.0		62.5	25.0								1				1		1	
65	LT	156.0		50.0				43.75					3	1					3	
65	RT	182.0		112.5				43.75					1						1	
66	NE	100.0		50.0			25.0						1				1		1	
66	NW	100.0		12.5	25.0								1				1		1	
66	SE	100.0		12.5	25.0								1				1		1	
66	SW	100.0		62.5	25.0								1				1		1	
67	NE	100.0				25.0	25.0						1				1		1	
67	NW	100.0				25.0	25.0						1				1		1	
67	SE	100.0				25.0	25.0						1				1		1	
67	SW	100.0				25.0	25.0						1				1		1	
TOTAL		22,938.0	100.0	2,862.5	350.0	12,925.0	325.0	150.0	87.5	25.0	100.0	237.5	150	3	7	12	16	150	95	

LOCATION	QUADRANT	EROSION CONTROL CURB	AGGREGATE WEDGE SHOULDER, TYPE B
		FOOT	TON
52	LT	37.5	40
52	RT	37.5	15
TOTAL		75	55

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DESIGNED - CGF
 DRAWN - SJS
 CHECKED - NAK
 DATE - 7/24/2018

REVISED -
 REVISED -
 REVISED -
 REVISED -

**MACOUPIN COUNTY
GUARDRAIL IMPROVEMENTS**

SCHEDULE OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	8
CONTRACT NO. 93723				
ILLINOIS FED. AID PROJECT				

LOCATION	QUADRANT	GUARDRAIL REFLECTORS, TY A	BARRIER WALL REFLECTORS, TY C	CURB REFLECTORS
		EACH	EACH	EACH
1	NORTH	6		
1	SOUTH	6		
2	NORTH	4	3	
2	SOUTH	4	3	
3	NORTH	6		2
3	SOUTH	6		2
5	NORTH	4		
5	SOUTH	4		
6	WEST	4		
6N	WEST	4		
7	WEST	8		
7	EAST	4		
8	EAST	4		
9	EAST	5	5	
9	WEST	4	4	
10	WEST	4	8	
10	EAST	4	8	
11	NORTH	4		
11	SOUTH	4		
12	NORTH	4		
12	SOUTH	4		
13	NORTH	4		
13	SOUTH	10		
14	NORTH	18		
14	SOUTH	18		
15	NORTH		2	
15	SOUTH		2	
16	NORTH	6	3	
16	SOUTH	6	3	
17	WEST	21	12	
17	EAST	14	12	
20	NORTH	4		
20	SOUTH	6		
21	NORTH	4		
21	SOUTH	4		
22	WEST	17	8	
22	EAST	11	8	
23	NORTH	4		
23	SOUTH	4		
24	NORTH	4		
24	SOUTH	4		
25	NORTH	4		
25	SOUTH	4		
*26	NORTH	4		
*26	SOUTH	4		
*27	NORTH	4		
*27	SOUTH	4		
*28	NORTH	4		
*28	SOUTH	4		
30	NORTH	5	2	
30	SOUTH	5	2	
31	NORTH	14	4	
31	SOUTH	14	4	
32	NORTH	4	2	2
32	SOUTH	4	2	2
33	NORTH	4		
33	SOUTH	4		
34	NORTH	4		
34	SOUTH	4		

LOCATION	QUADRANT	GUARDRAIL REFLECTORS, TY A	BARRIER WALL REFLECTORS, TY C	CURB REFLECTORS
		EACH	EACH	EACH
35	NORTH	4	2	
35	SOUTH	4	2	
36	NORTH	6	3	
36	SOUTH	7	3	
37	NORTH	7	2	
37	SOUTH	4	2	
38	EAST		3	
38	WEST		3	
39	NORTH	4		
39	SOUTH	8		
40	NORTH	5		
41	NORTH	6	4	
41	SOUTH	6	4	
42	NORTH	4	3	
42	SOUTH	4	3	
45	NORTH	4	6	
45	SOUTH	4	6	
48	NORTH	6	3	
48	SOUTH	6	3	
49	NORTH	7	6	
49	SOUTH	7	6	
51	EAST	5		
51	WEST	5		
52	WEST	4		
52	EAST	4		
53	WEST	4		
53	EAST	4		
54	NORTH	4	2	
54	SOUTH	4	2	
55	NORTH	6	2	
55	SOUTH	6	2	
56	NORTH	4	6	
56	SOUTH	4	6	
58	WEST	4		
59	WEST	5		
60	WEST	4		
62	NORTH	4		
63	SW	4		
63	SE	4		
63	NW	4		
63	NE	4		
64	NORTH	4	2	2
64	SOUTH	4	2	2
65	NORTH	4		
65	SOUTH	4		
66	NORTH	4	2	2
66	SOUTH	4	2	2
67	NORTH	4	2	
67	SOUTH	4	2	
TOTAL		572	193	16
ROUNDED TOTAL				

* REMOVE EXISTING GUARDRAIL REFLECTORS

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PLOT DATE = 1/15/2019

DESIGNED - CGF
DRAWN - SJS
CHECKED - NAK
DATE - 7/24/2018

REVISED -
REVISED -
REVISED -
REVISED -

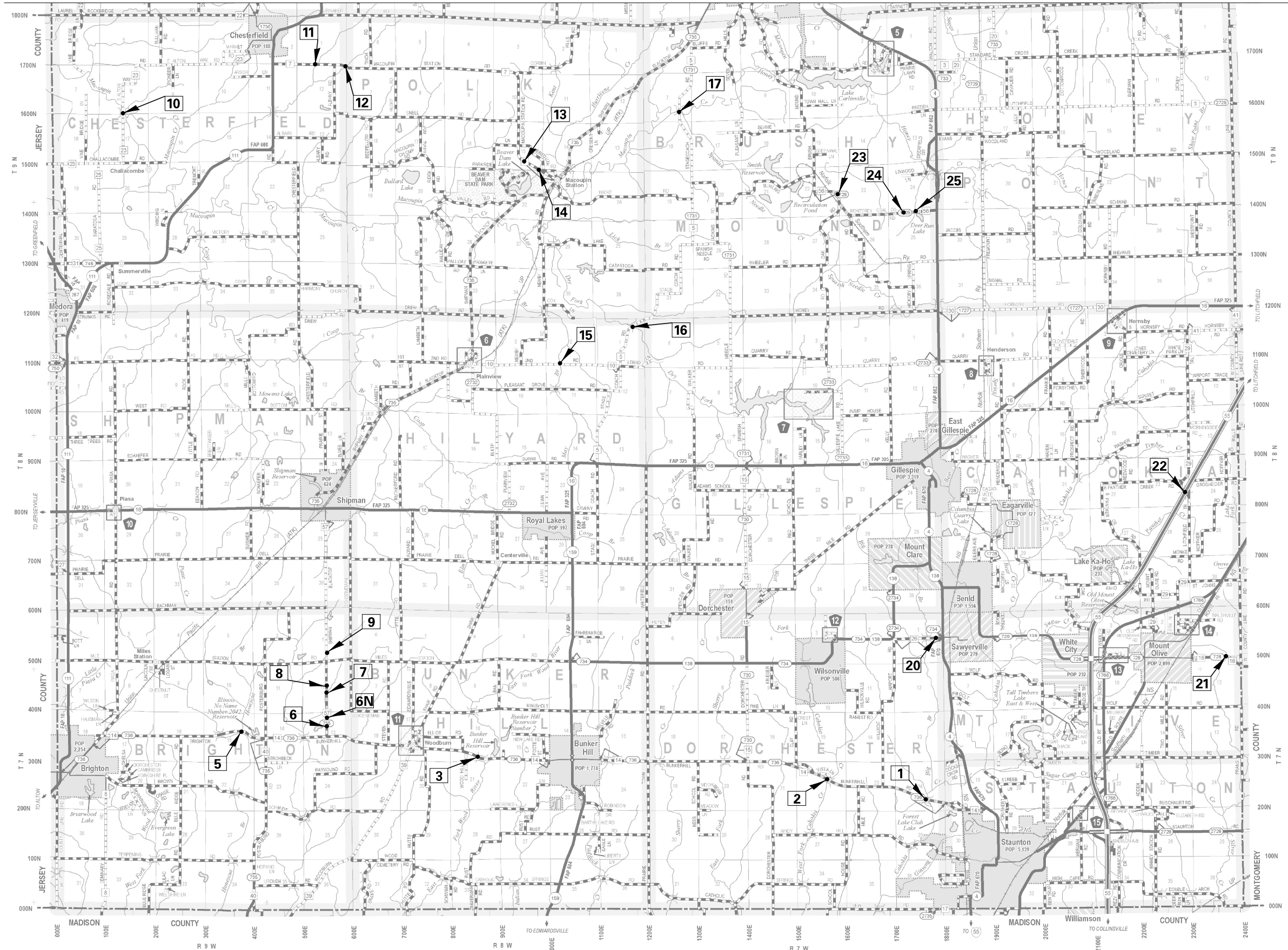
**MACOUPIN COUNTY
GUARDRAIL IMPROVEMENTS**

SCHEDULE OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	9
			CONTRACT NO. 93723	
		ILLINOIS	FED. AID PROJECT	

MATCHLINE - NORTH MACOUPIN COUNTY



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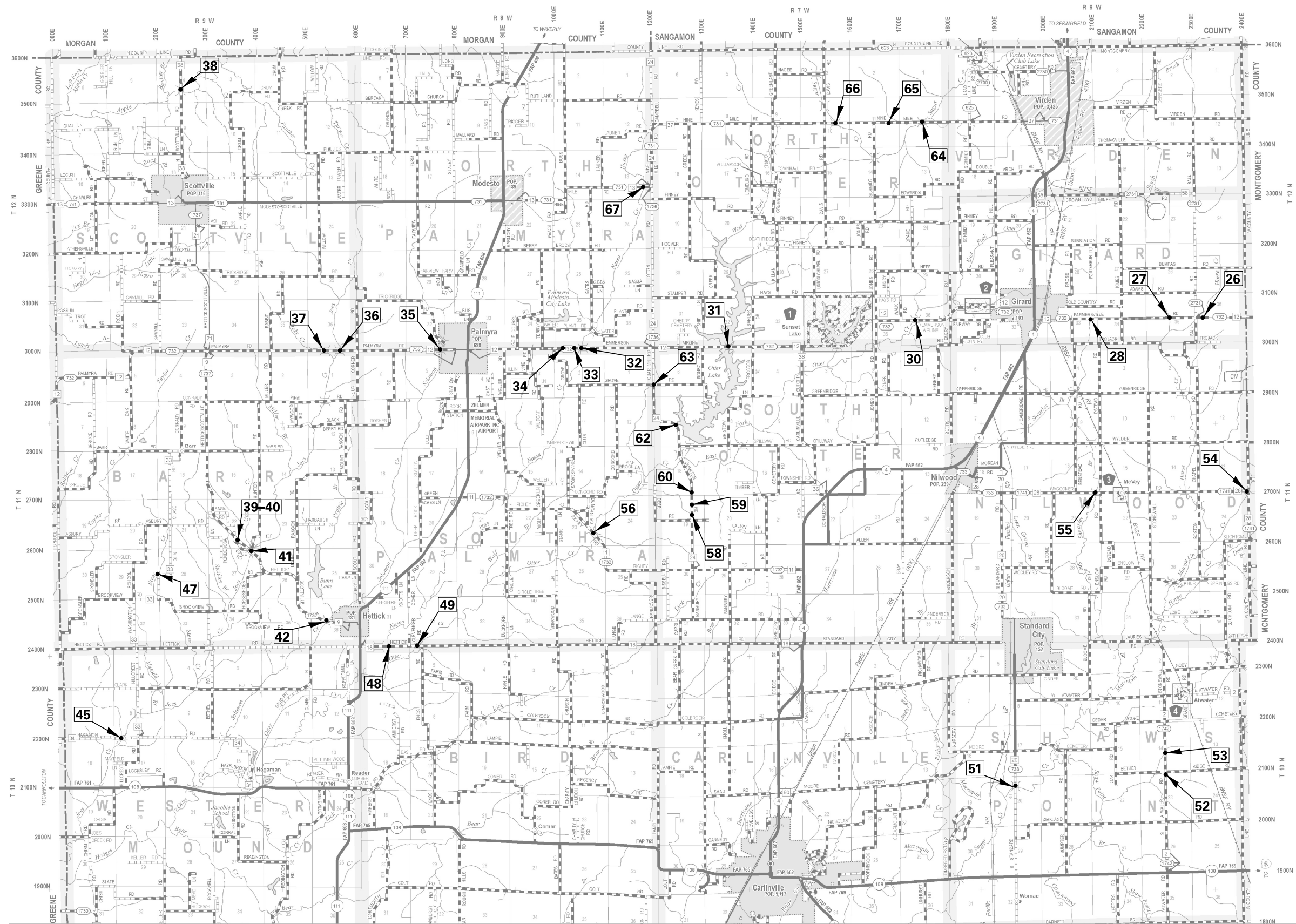
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DRAWN - SJS	REVISED -
CHECKED - NAK	REVISED -
DATE - 6/18/2018	REVISED -

**MACOUPIN COUNTY
 GUARDRAIL IMPROVEMENTS**

**LOCATION MAP
 SOUTH MACOUPIN COUNTY**

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION 16-00100-00-GR	COUNTY MACOUPIN	TOTAL SHEETS 51	SHEET NO. 10
			CONTRACT NO. 93723	
		ILLINOIS	FED. AID PROJECT	



MATCHLINE - SOUTH MACOUPIN COUNTY

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 PLOT DATE = 1/15/2019

DESIGNED - CGF	REVISED -
DRAWN - SJS	REVISED -
CHECKED - NAK	REVISED -
DATE - 6/18/2018	REVISED -

**MACOUPIN COUNTY
GUARDRAIL IMPROVEMENTS**

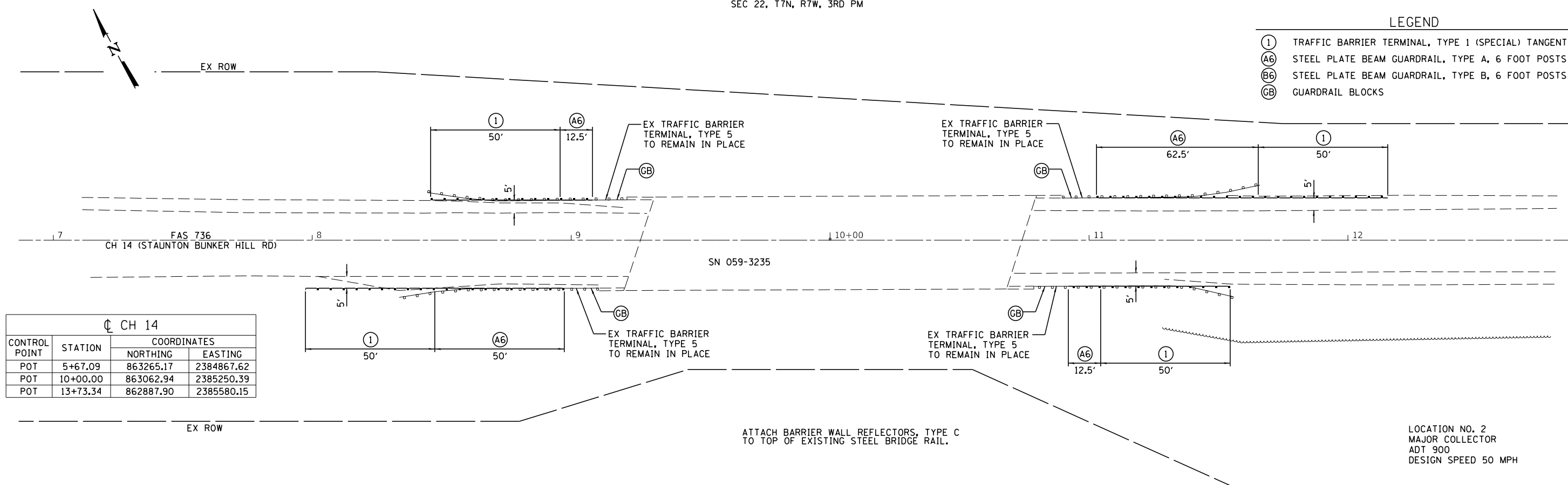
**LOCATION MAP
NORTH MACOUPIN COUNTY**

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION 16-00100-00-GR	COUNTY MACOUPIN	TOTAL SHEETS 51	SHEET NO. 11
			CONTRACT NO. 93723	
		ILLINOIS FED. AID PROJECT		

LEGEND

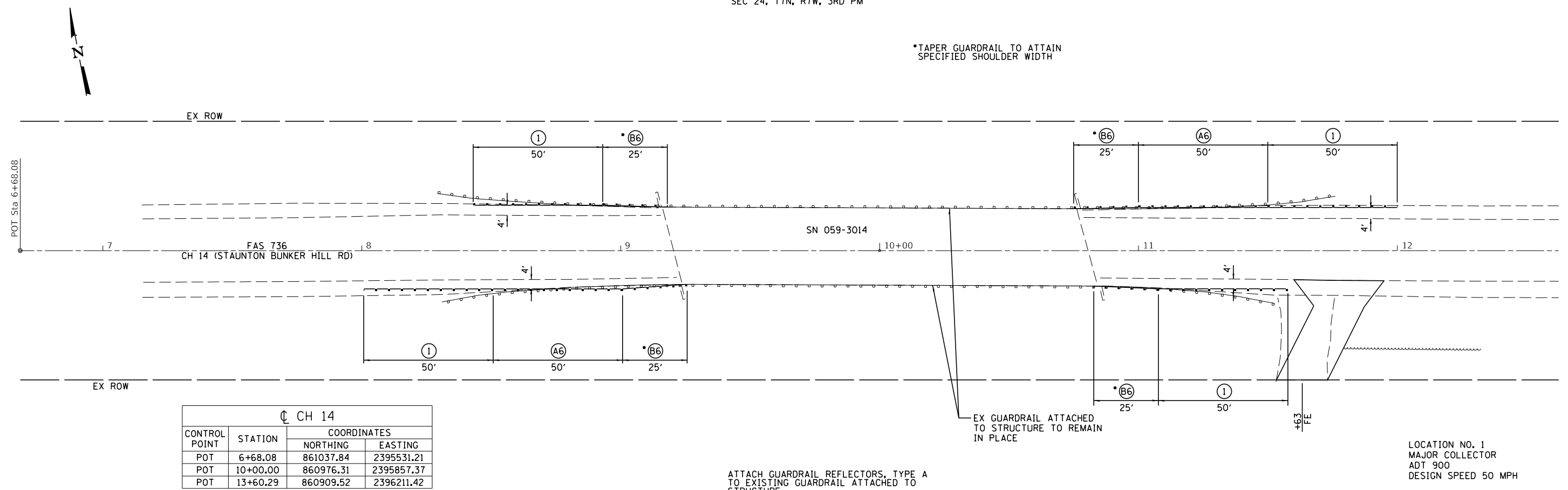
- (1) TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- (A6) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (B6) STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS
- (GB) GUARDRAIL BLOCKS



CH 14			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	5+67.09	863265.17	2384867.62
POT	10+00.00	863062.94	2385250.39
POT	13+73.34	862887.90	2385580.15

LOCATION NO. 2
MAJOR COLLECTOR
ADT 900
DESIGN SPEED 50 MPH

*TAPER GUARDRAIL TO ATTAIN SPECIFIED SHOULDER WIDTH



CH 14			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+68.08	861037.84	2395531.21
POT	10+00.00	860976.31	2395857.37
POT	13+60.29	860909.52	2396211.42

LOCATION NO. 1
MAJOR COLLECTOR
ADT 900
DESIGN SPEED 50 MPH

MODEL: Default
FILE NAME: 2464.1 - Macoupin Guardrail RE1 & PE1 (CADD) Sheets 2464.1 - ch14plan1_2.dgn



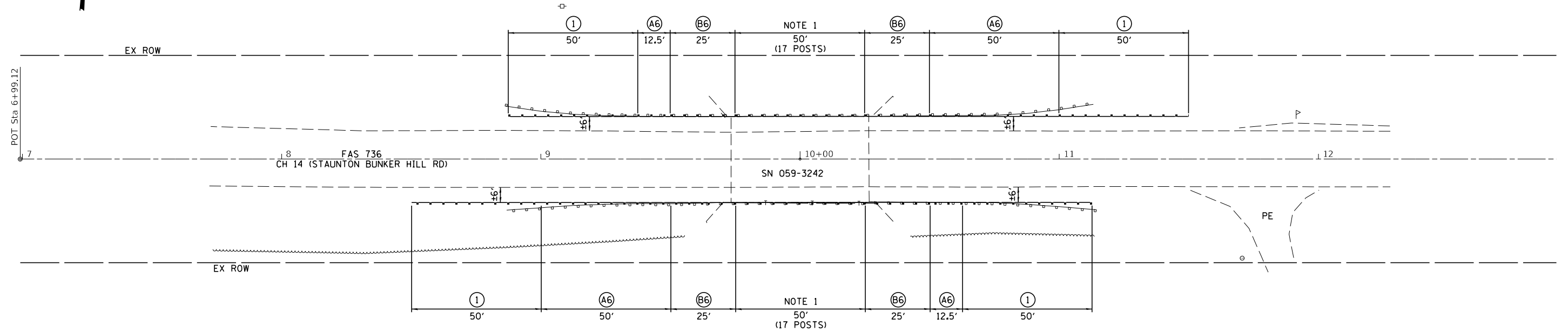
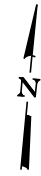
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PLOT DATE = 1/15/2019	DATE - 9/05/2018	REVISED -

MACOUPIN COUNTY
GUARDRAIL IMPROVEMENTS

PLAN LOCATIONS 1 & 2

SCALE: SHEET OF SHEETS STA. TO STA.

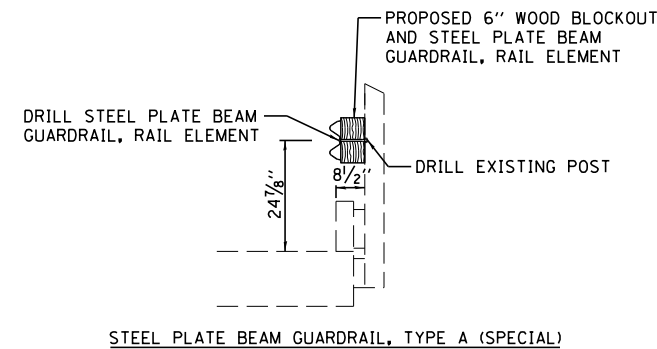
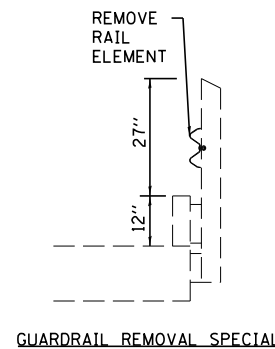
ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	12
CONTRACT NO. 93723				
		ILLINOIS	FED. AID PROJECT	



LEGEND

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

CH 14			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+99.12	865344.15	2348657.04
POT	10+00.00	865373.16	2348956.51
POT	13+07.54	865402.82	2349262.62



NOTE 1

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

CH 14 SHALL BE KEPT OPEN TO TRAFFIC DURING CONSTRUCTION UTILIZING TEMPORARY BRIDGE TRAFFIC SIGNALS PER HIGHWAY STANDARD 701316.

LOCATION NO. 3
 MAJOR COLLECTOR
 ADT 1900
 DESIGN SPEED 50 MPH

MODEL: Default
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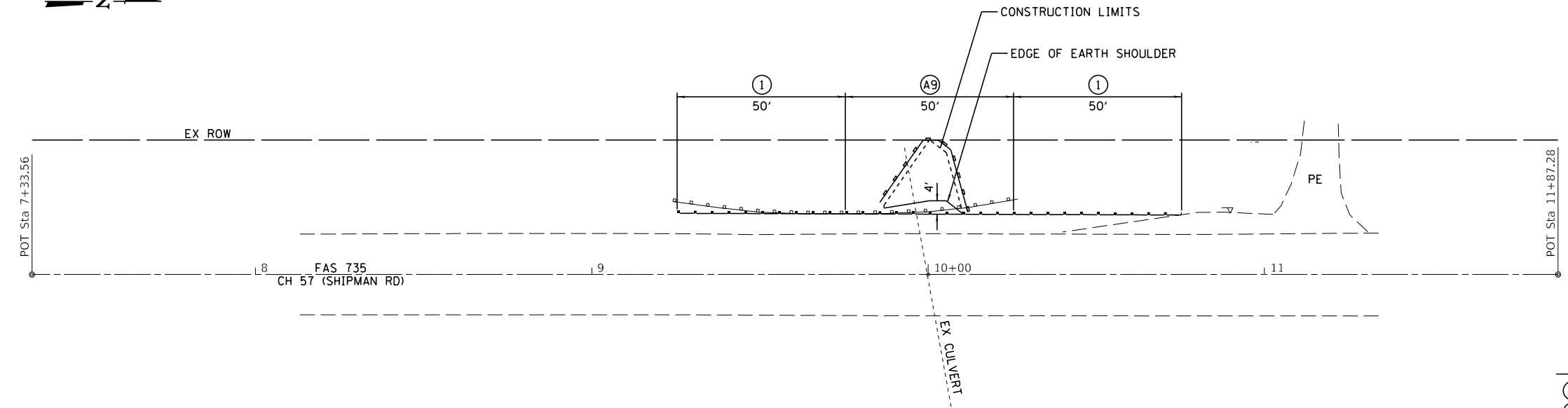
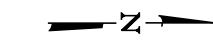
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PLOT SCALE = 40,0000' / In.	CHECKED - NAK	REVISED -
PLOT DATE = 1/15/2019	DATE - 9/05/2018	REVISED -

MACOUPIN COUNTY
 GUARDRAIL IMPROVEMENTS

PLAN LOCATION 3

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	13
CONTRACT NO. 93723				
		ILLINOIS	FED. AID PROJECT	

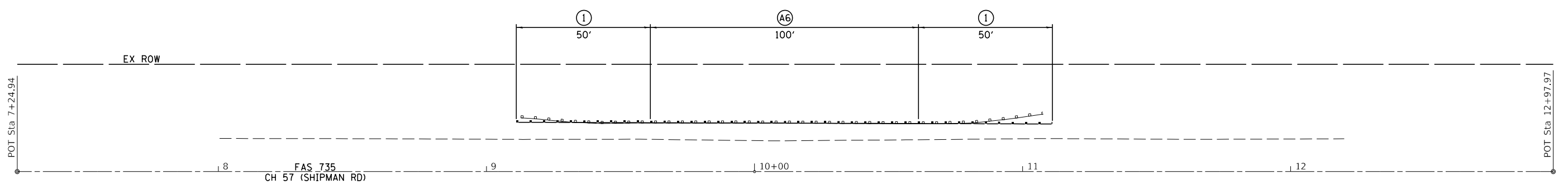
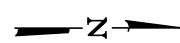


CH 57			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+33.56	868834.01	2331398.11
POT	10+00.00	869100.46	2331398.55
POT	11+87.28	869287.73	2331398.86

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
---	PERIMETER EROSION BARRIER

LOCATION NO. 6N
MINOR COLLECTOR
ADT 1800
DESIGN SPEED 50 MPH



CH 57			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+24.94	867990.37	2331397.60
POT	10+00.00	868265.44	2331398.13
POT	12+97.97	868563.40	2331398.70

LOCATION NO. 6
MINOR COLLECTOR
ADT 1800
DESIGN SPEED 50 MPH

MODEL: Default
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PLOT SCALE = 40,0000' / 1in.	CHECKED - NAK	REVISED -
PLOT DATE = 1/15/2019	DATE - 9/05/2018	REVISED -

**MACOUPIN COUNTY
GUARDRAIL IMPROVEMENTS**

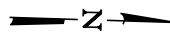
PLAN LOCATIONS 6 & 6N

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 93723				
		ILLINOIS	FED. AID PROJECT	

LEGEND

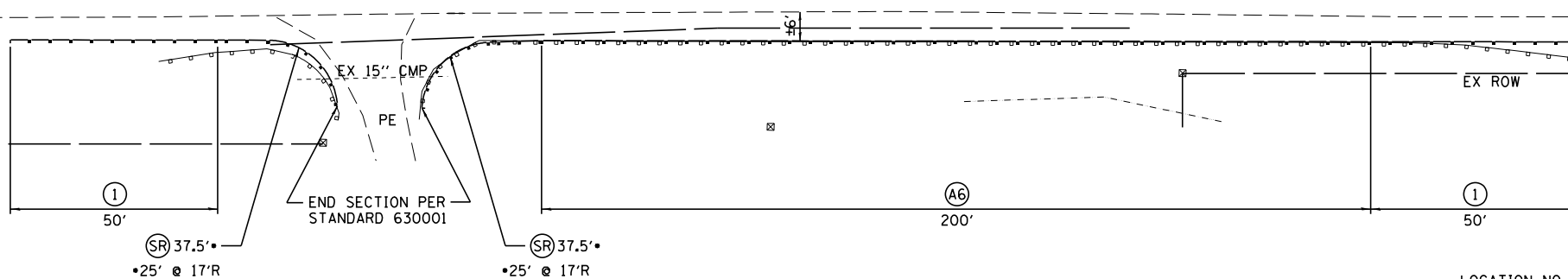
- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- Ⓐ6 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- Ⓐ9 STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- ② TRAFFIC BARRIER TERMINAL, TYPE 2
- ⓈR STEEL PLATE BEAM GUARDRAIL, SHORT RADIUS
- PERIMETER EROSION BARRIER



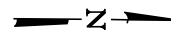
POT Sta 6+05.80

FAS 735
CH 57 (SHIPMAN RD)

CH 57			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+05.80	872860.11	2331375.26
POT	10+00.00	873254.12	2331362.94
POT	14+23.38	873677.28	2331349.70



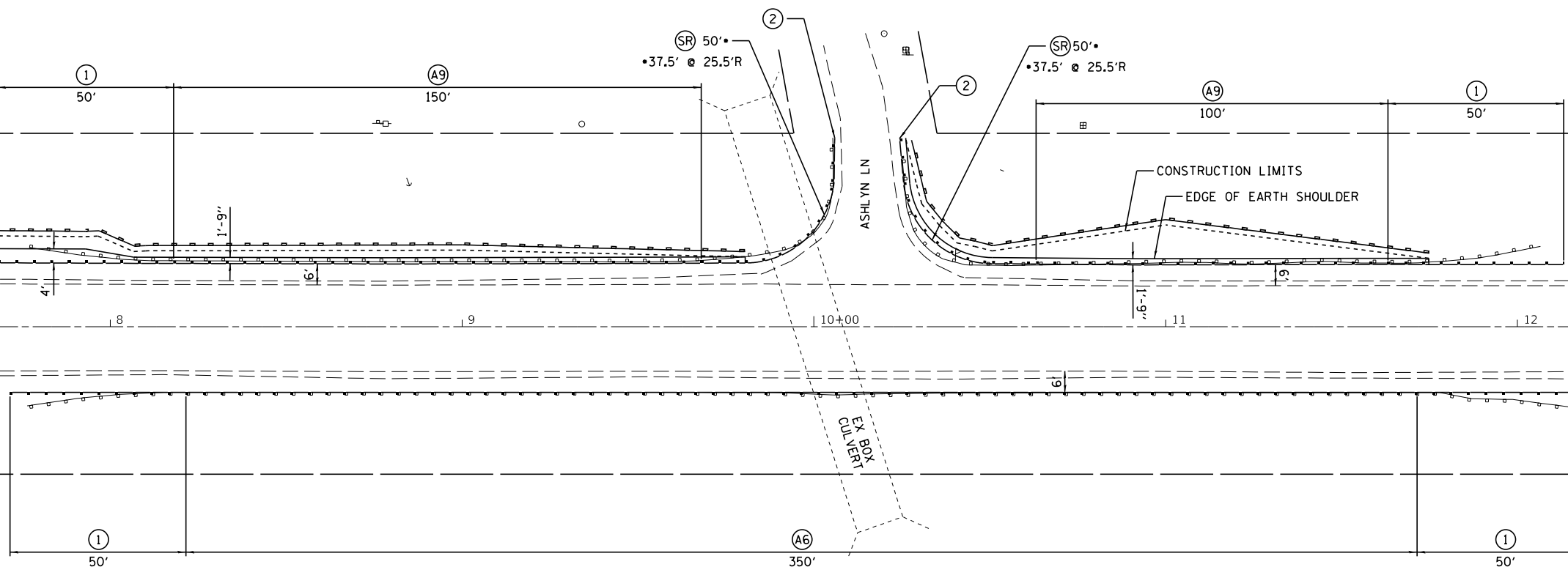
LOCATION NO. 8
MINOR COLLECTOR
ADT 1800
DESIGN SPEED 50 MPH



POT Sta 6+03.87

FAS 735
CH 57 (SHIPMAN RD)

CH 57			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+03.87	872099.51	2331381.38
POT	10+00.00	872495.63	2331377.68
POT	13+60.82	872856.43	2331374.31



LOCATION NO. 7
MINOR COLLECTOR
ADT 1800
DESIGN SPEED 50 MPH

MODEL: Default
FILE NAME: 2464.1-Macoupin7_8.dgn
PROJECT: 2464.1-Macoupin7_8.dgn



JOB = 2464.1
FILE NAME = 2464.1-ahk-plot7_8.dgn
PLOT SCALE = 40,0000' / in.
PLOT DATE = 1/15/2019

DESIGNED - CGF
DRAWN - SJS
CHECKED - NAK
DATE - 9/05/2018

REVISED -
REVISED -
REVISED -
REVISED -

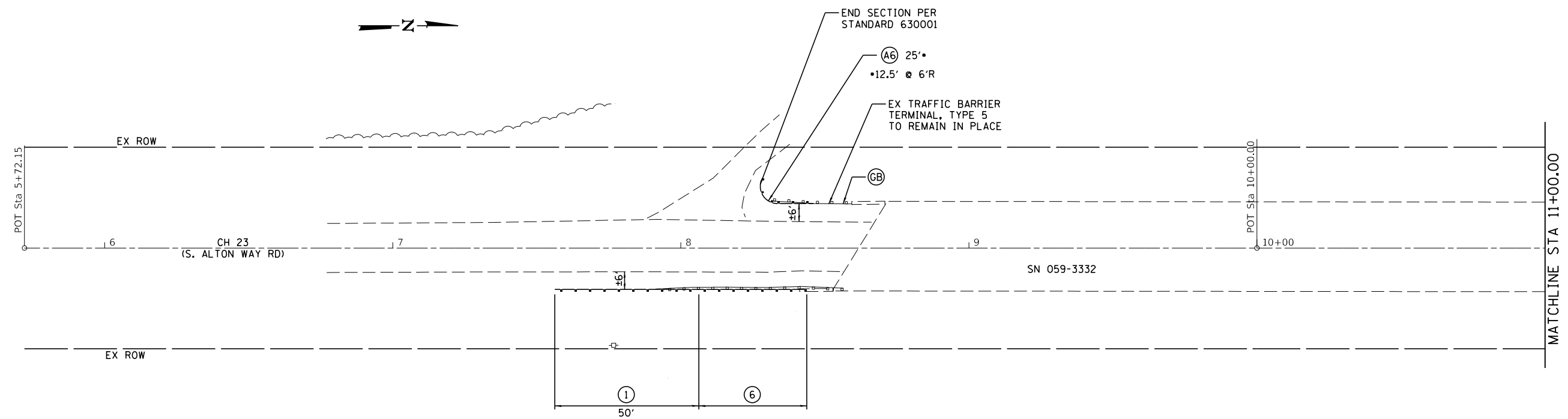
MACOUPIN COUNTY
GUARDRAIL IMPROVEMENTS

PLAN LOCATIONS 7 & 8

SCALE: SHEET OF SHEETS STA. TO STA.

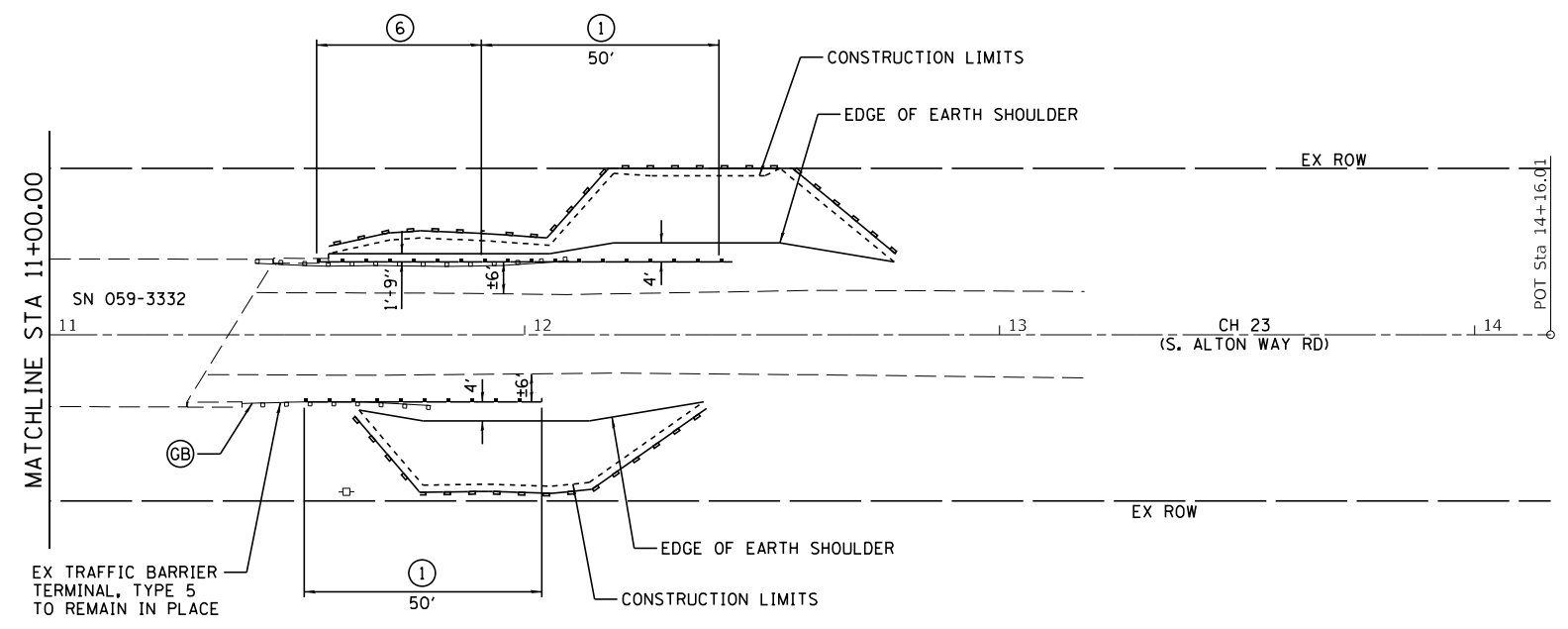
ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	16
CONTRACT NO. 93723				
		ILLINOIS	FED. AID PROJECT	

SEC 17, T9N, R9W, 3RD PM



ATTACH BARRIER WALL REFLECTORS, TYPE C TO THE TOP AND FACE OF EXISTING CONCRETE BRIDGE RAIL.

SEC 8, T9N, R9W, 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
- Ⓒ GUARDRAIL BLOCKS
- PERIMETER EROSION BARRIER

CH 23			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	5+72.15	934242.75	2309565.98
POT	10+00.00	934670.61	2309565.72
POT	14+16.01	935086.61	2309565.47

LOCATION NO. 10
LOCAL ROAD
ADT 50
DESIGN SPEED 30 MPH

MODEL Default
FILE NAME: 2464.1-ahp-plan10.dgn
PLOT DATE: 11/21/2018



JOB = 2464.1
FILE NAME = 2464.1-ahp-plan10.dgn
PLOT SCALE = 40,0000' / in.
PLOT DATE = 11/21/2018

DESIGNED - CGF
DRAWN - SJS
CHECKED - NAK
DATE - 11/21/2018

REVISED -
REVISED -
REVISED -
REVISED -

MACOUPIN COUNTY
GUARDRAIL IMPROVEMENTS

PLAN LOCATION 10

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	17
CONTRACT NO. 93723				
ILLINOIS		FED. AID PROJECT		

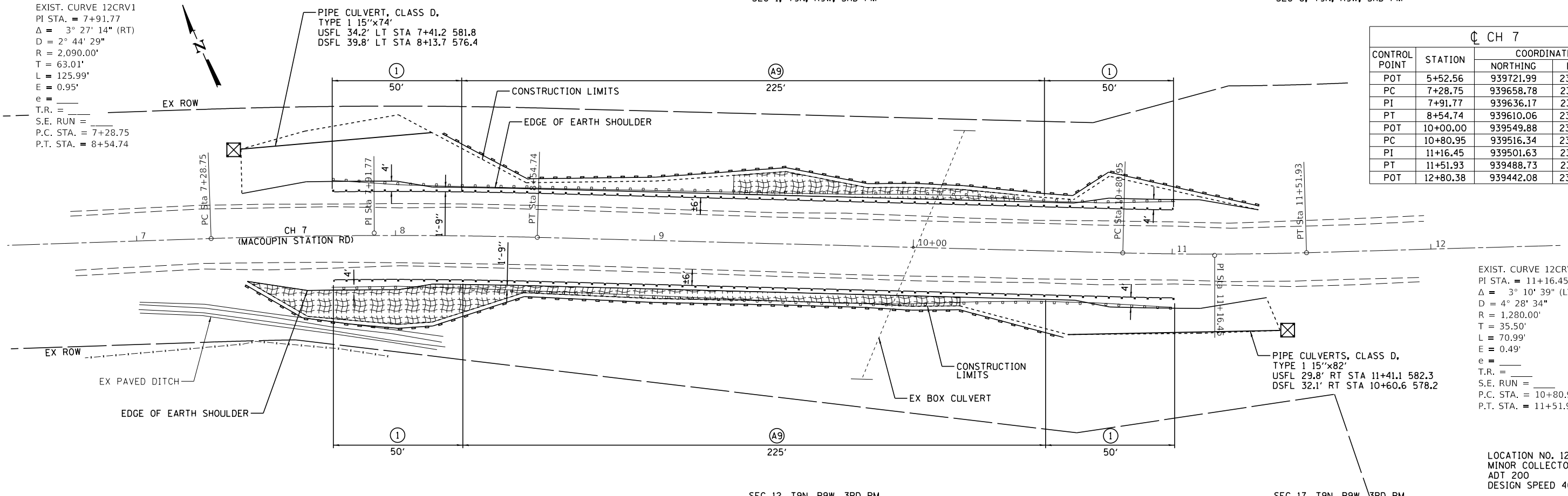
EXIST. CURVE 12CRV1
 PI STA. = 7+91.77
 $\Delta = 3^\circ 27' 14''$ (RT)
 $D = 2^\circ 44' 29''$
 $R = 2,090.00'$
 $T = 63.01'$
 $L = 125.99'$
 $E = 0.95'$
 $e =$
 T.R. =
 S.E. RUN =
 P.C. STA. = 7+28.75
 P.T. STA. = 8+54.74

PIPE CULVERT, CLASS D,
 TYPE 1 15"x74'
 USFL 34.2' LT STA 7+41.2 581.8
 DSFL 39.8' LT STA 8+13.7 576.4

SEC 1, T9N, R9W, 3RD PM

SEC 6, T9N, R9W, 3RD PM

CH 7			
CONTROL POINT	STATION	NORTHING	EASTING
POT	5+52.56	939721.99	2332972.25
PC	7+28.75	939658.78	2333136.72
PI	7+91.77	939636.17	2333195.54
PT	8+54.74	939610.06	2333252.89
POT	10+00.00	939549.88	2333385.09
PC	10+80.95	939516.34	2333458.76
PI	11+16.45	939501.63	2333491.07
PT	11+51.93	939488.73	2333524.15
POT	12+80.38	939442.08	2333643.83



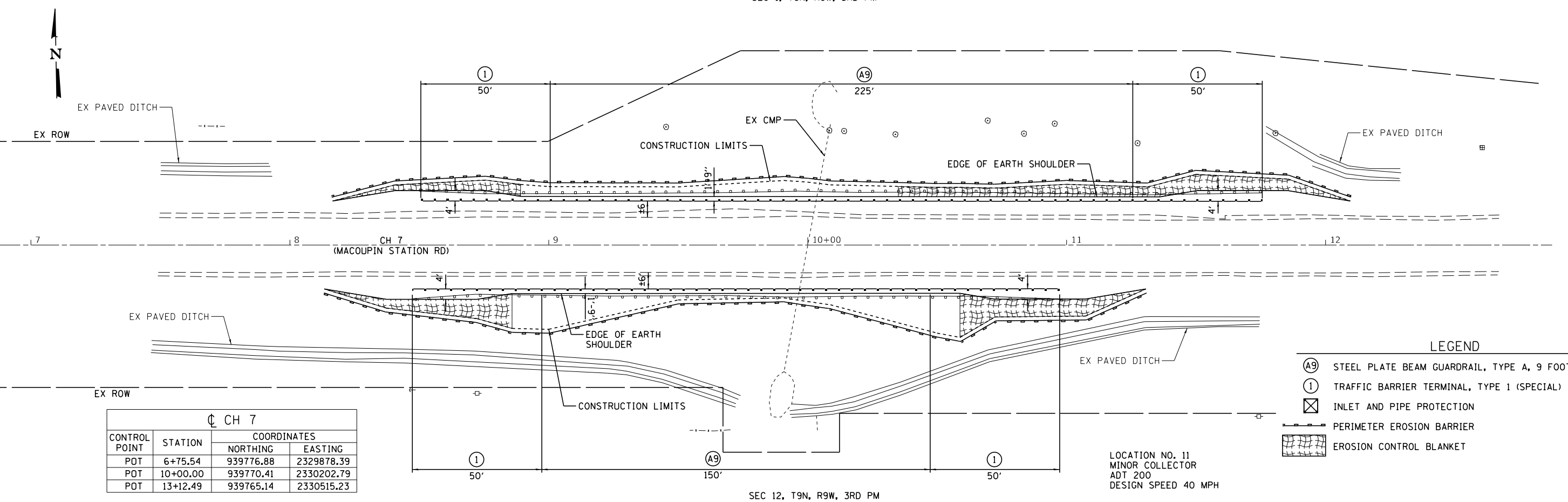
EXIST. CURVE 12CRV2
 PI STA. = 11+16.45
 $\Delta = 3^\circ 10' 39''$ (LT)
 $D = 4^\circ 28' 34''$
 $R = 1,280.00'$
 $T = 35.50'$
 $L = 70.99'$
 $E = 0.49'$
 $e =$
 T.R. =
 S.E. RUN =
 P.C. STA. = 10+80.95
 P.T. STA. = 11+51.93

LOCATION NO. 12
 MINOR COLLECTOR
 ADT 200
 DESIGN SPEED 40 MPH

SEC 12, T9N, R9W, 3RD PM

SEC 17, T9N, R9W, 3RD PM

SEC 1, T9N, R9W, 3RD PM



LEGEND

- (A9) STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- (1) TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ☒ INLET AND PIPE PROTECTION
- ▬ PERIMETER EROSION BARRIER
- ▨ EROSION CONTROL BLANKET

CH 7			
CONTROL POINT	STATION	NORTHING	EASTING
POT	6+75.54	939776.88	2329878.39
POT	10+00.00	939770.41	2330202.79
POT	13+12.49	939765.14	2330515.23

LOCATION NO. 11
 MINOR COLLECTOR
 ADT 200
 DESIGN SPEED 40 MPH

SEC 12, T9N, R9W, 3RD PM

MACOUPIN COUNTY
 GUARDRAIL IMPROVEMENTS

PLAN LOCATIONS 11 & 12



JOB = 2464.1
 FILE NAME = 2464.1-shl-plan11_12.dgn
 PLOT SCALE = 40,000' / in.
 PLOT DATE = 1/15/2019

DESIGNED - NAK
 DRAWN - SJS
 CHECKED - NAK
 DATE - 6/18/2018

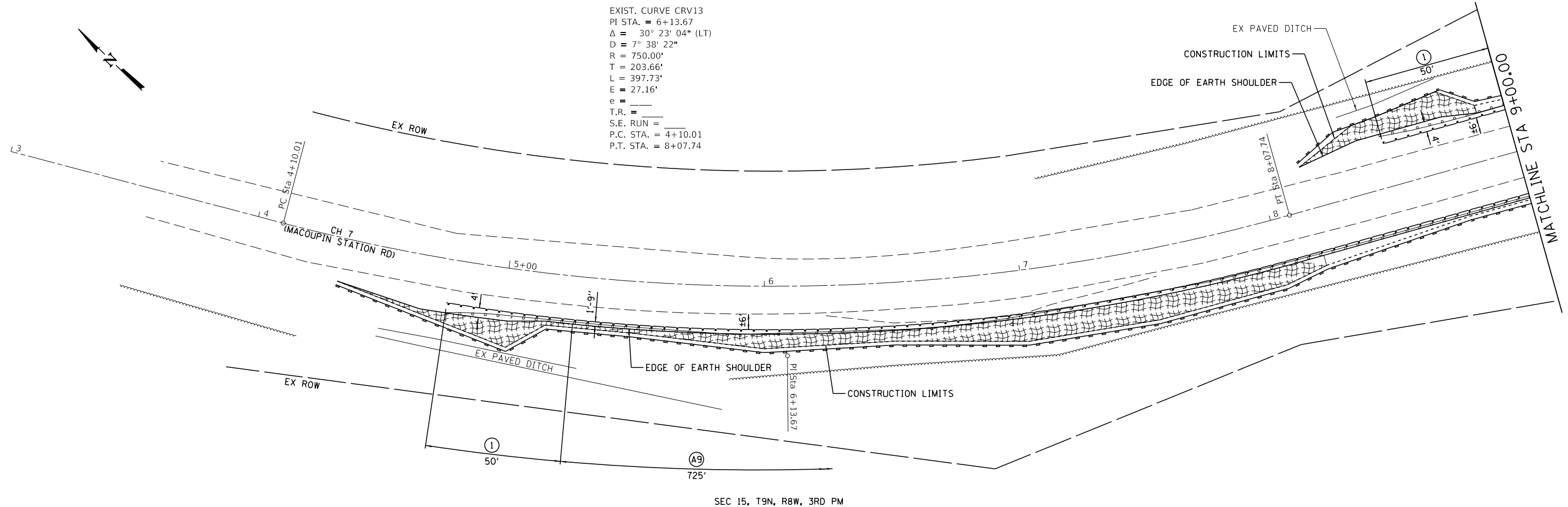
REVISED -
 REVISED -
 REVISED -
 REVISED -

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	18
CONTRACT NO. 93723				
ILLINOIS FED. AID PROJECT				

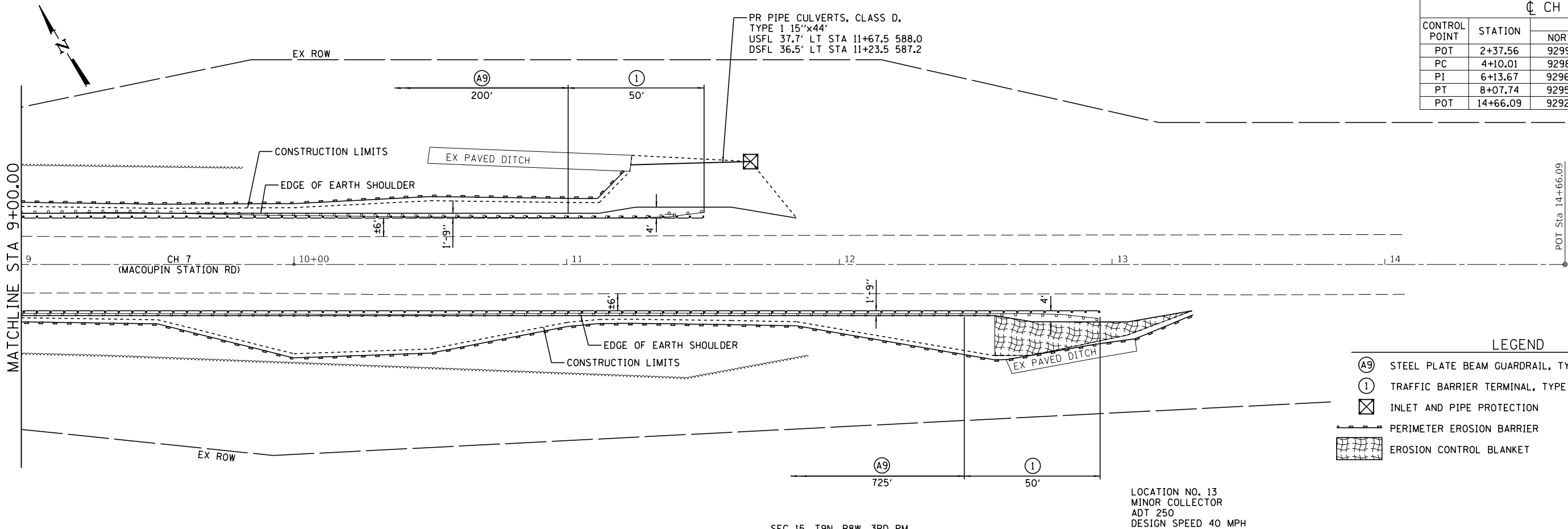
MODEL Default
 FILE Name: 2464.1-2464.1-Macoupin-Guardrail-FEI & PEI-CADD-Sheets\2464.1-shl-plan11_12.dgn

EXIST. CURVE CRV13
 PI STA. = 6+13.67
 $\Delta = 30^\circ 23' 04''$ (LT)
 $D = 7^\circ 38' 22''$
 $R = 750.00'$
 $T = 203.66'$
 $L = 397.73'$
 $E = 27.16'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 4+10.01$
 $P.T. STA. = 8+07.74$



CH 7			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	2+37.56	929969.91	2351960.61
PC	4+10.01	929819.68	2352045.28
PI	6+13.67	929642.26	2352145.28
PT	8+07.74	929539.79	2352321.28
POT	14+66.09	929208.53	2352890.22

PR PIPE CULVERTS, CLASS D,
 TYPE 1 15"x44"
 USFL 37.7' LT STA 11+67.5 588.0
 DSFL 36.5' LT STA 11+23.5 587.2



LEGEND

- (A9) STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- (1) TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ⊗ INLET AND PIPE PROTECTION
- ▬ PERIMETER EROSION BARRIER
- ▨ EROSION CONTROL BLANKET

LOCATION NO. 13
 MINOR COLLECTOR
 ADT 250
 DESIGN SPEED 40 MPH

MACOUPIN COUNTY
 GUARDRAIL IMPROVEMENTS

PLAN LOCATION 13



JOB = 2464.1
 FILE NAME = 2464.1-shl-plan13.dgn
 PLOT SCALE = 40,000/1 in.
 PLOT DATE = 1/15/2019

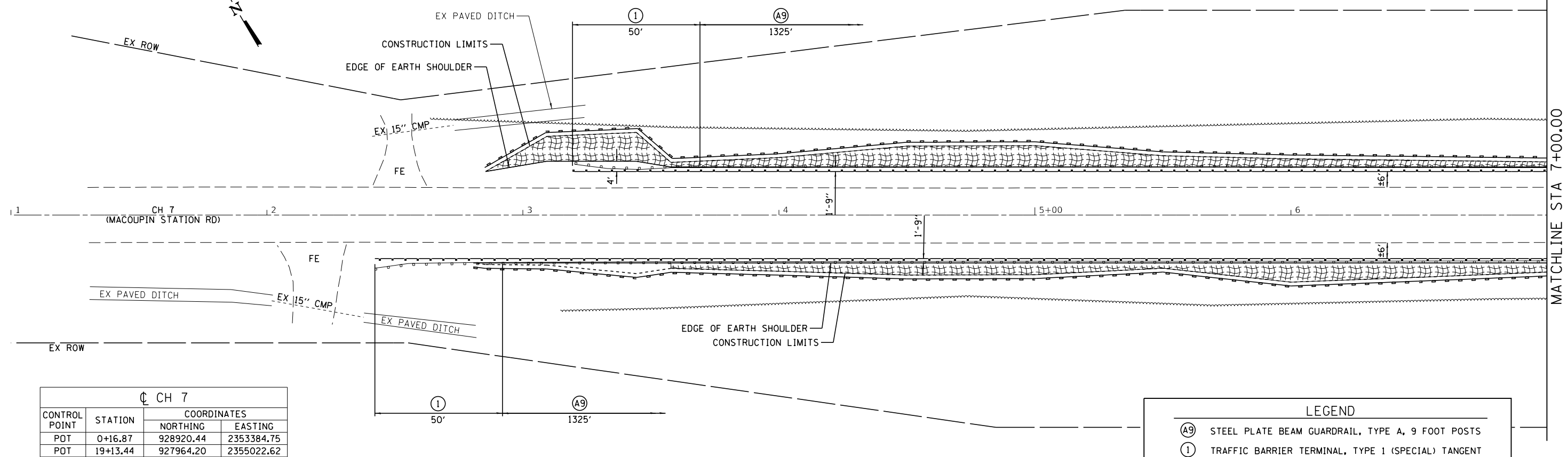
DESIGNED - NAK	REVISED -
DRAWN - SJS	REVISED -
CHECKED - NAK	REVISED -
DATE - 7/02/2018	REVISED -

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	19
CONTRACT NO. 93723				
ILLINOIS FED. AID PROJECT				

MODEL: Default
 FILE NAME: 2464.1-shl-plan13.dgn
 MODEL: Default
 FILE NAME: 2464.1-shl-plan13.dgn

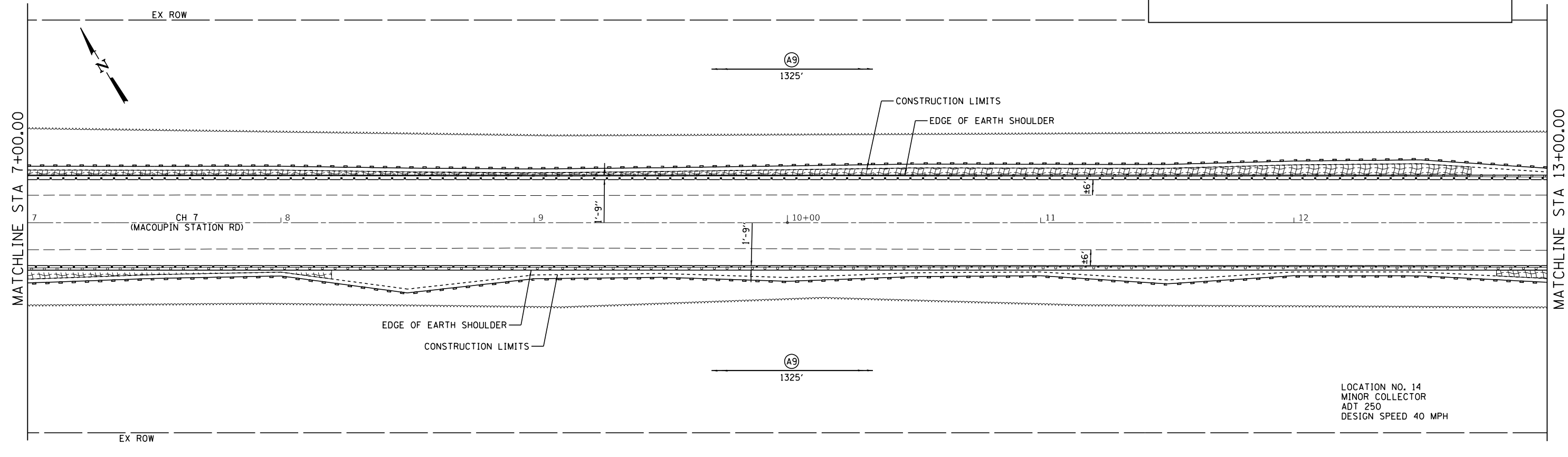
SEC 15, T9N, R8W, 3RD PM



CH 7			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	0+16.87	928920.44	2353384.75
POT	19+13.44	927964.20	2355022.62

LEGEND	
(A9)	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
(1)	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- - -	PERIMETER EROSION BARRIER
[Hatched Box]	EROSION CONTROL BLANKET

SEC 22, T9N, R8W, 3RD PM
SEC 15, T9N, R8W, 3RD PM



LOCATION NO. 14
MINOR COLLECTOR
ADT 250
DESIGN SPEED 40 MPH

SEC 22, T9N, R8W, 3RD PM

MODEL: Default
FILE NAME: 24641_14.dgn
FILE PATH: \\24641_14\Projects\24641_14\24641_14.dgn



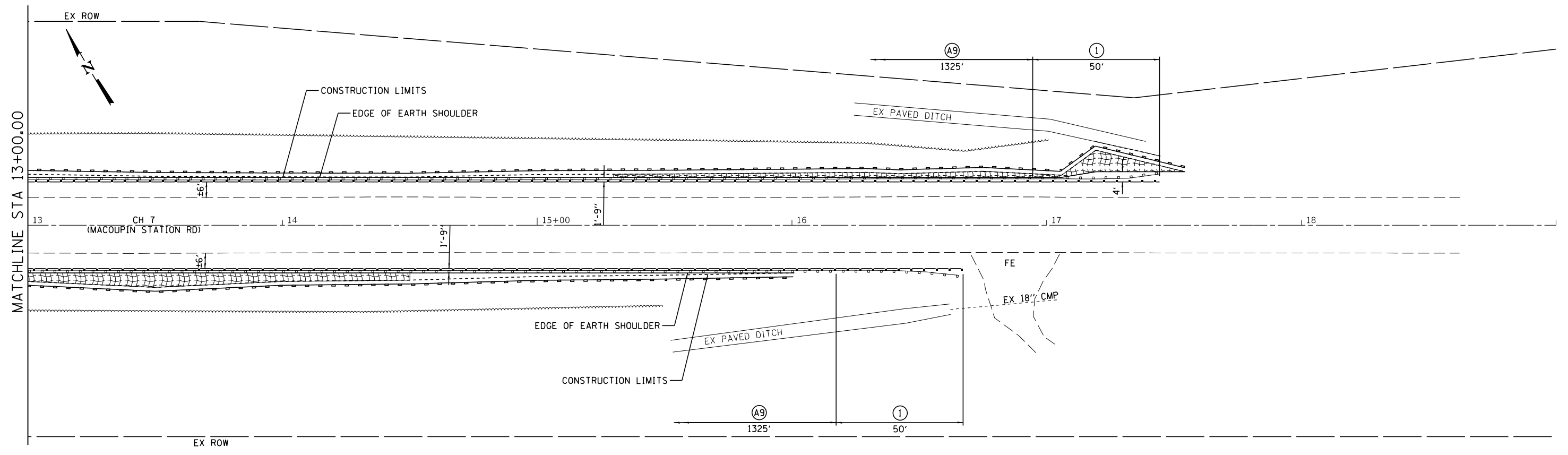
JOB = 2464.1	DESIGNED - NAK	REVISED -
FILE NAME = 2464.1-shk-plan14.dgn	DRAWN - SJS	REVISED -
PLOT SCALE = 40,000' / 1"	CHECKED - NAK	REVISED -
PLOT DATE = 1/15/2019	DATE - 7/02/2018	REVISED -

**MACOUPIN COUNTY
GUARDRAIL IMPROVEMENTS**

PLAN LOCATION 14

SCALE: SHEET OF SHEETS STA. TO STA.



ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	20
CONTRACT NO. 93723				
ILLINOIS FED. AID PROJECT				



CH 7

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	0+16.87	928920.44	2353384.75
POT	19+13.44	927964.20	2355022.62

LEGEND

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

LOCATION NO. 14
MINOR COLLECTOR
ADT 250
DESIGN SPEED 40 MPH

MODEL: Default
FILE NAME: 2464.1 - Macoupin Guardrail FEI & PEI (CADD) Sheets 2464.1-eh-plan14.dgn



JOB = 2464.1
FILE NAME = 2464.1-eh-plan14.dgn
PLOT SCALE = 40,000' / in.
PLOT DATE = 1/15/2019

DESIGNED - NAK
DRAWN - SJS
CHECKED - NAK
DATE - 7/02/2018

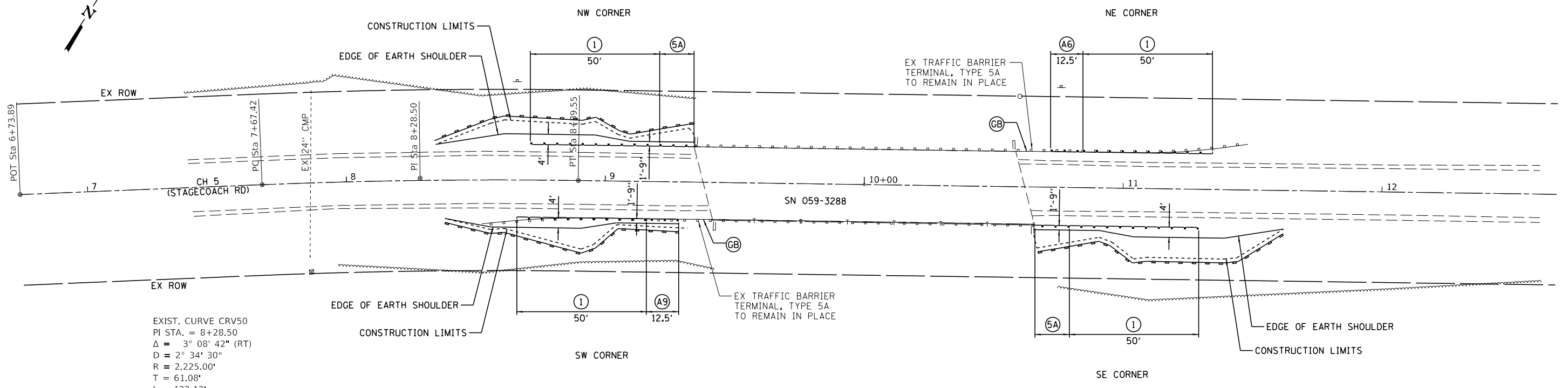
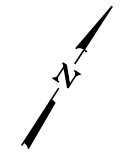
REVISED -
REVISED -
REVISED -
REVISED -

**MACOUPIN COUNTY
GUARDRAIL IMPROVEMENTS**

PLAN LOCATION 14

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	21
CONTRACT NO. 93723				
		ILLINOIS	FED. AID PROJECT	



EXIST. CURVE CRV50
 PI STA. = 8+28.50
 $\Delta = 3^\circ 08' 42''$ (RT)
 $D = 2^\circ 34' 30''$
 $R = 2,225.00'$
 $T = 61.08'$
 $L = 122.13'$
 $E = 0.84'$
 $e = \text{---}$
 $T.R. = \text{---}$
 $S.E. \text{ RUN} = \text{---}$
 $P.C. \text{ STA.} = 7+67.42$
 $P.T. \text{ STA.} = 8+89.55$

ATTACH BARRIER WALL REFLECTORS, TYPE C
 TO TOP OF EXISTING STEEL BRIDGE RAIL.

CH 5			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+73.89	911434.79	2363850.03
PC	7+67.42	911489.01	2363926.24
PI	8+28.50	911524.41	2363976.01
PT	8+89.55	911557.04	2364027.65
POT	10+00.00	911616.03	2364121.02
POT	13+16.62	911785.14	2364388.70

LEGEND	
(A6)	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
(A9)	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
(1)	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
(5A)	TRAFFIC BARRIER TERMINAL, TYPE 5A
(GB)	GUARDRAIL BLOCKS
---	PERIMETER EROSION BARRIER

LOCATION NO. 16
 LOCAL ROADS
 ADT 275
 DESIGN SPEED 30 MPH

MODEL: Default
 FILE NAME: 24641_16.dgn
 PLOT DATE: 7/2/2018



JOB = 2464.1	DESIGNED - CGF	REVISED -
FILE NAME = 2464.1-shk-plan16.dgn	DRAWN - SJS	REVISED -
PLOT SCALE = 40,000' / 1 in.	CHECKED - NAK	REVISED -
PLOT DATE = 1/15/2019	DATE - 7/02/2018	REVISED -

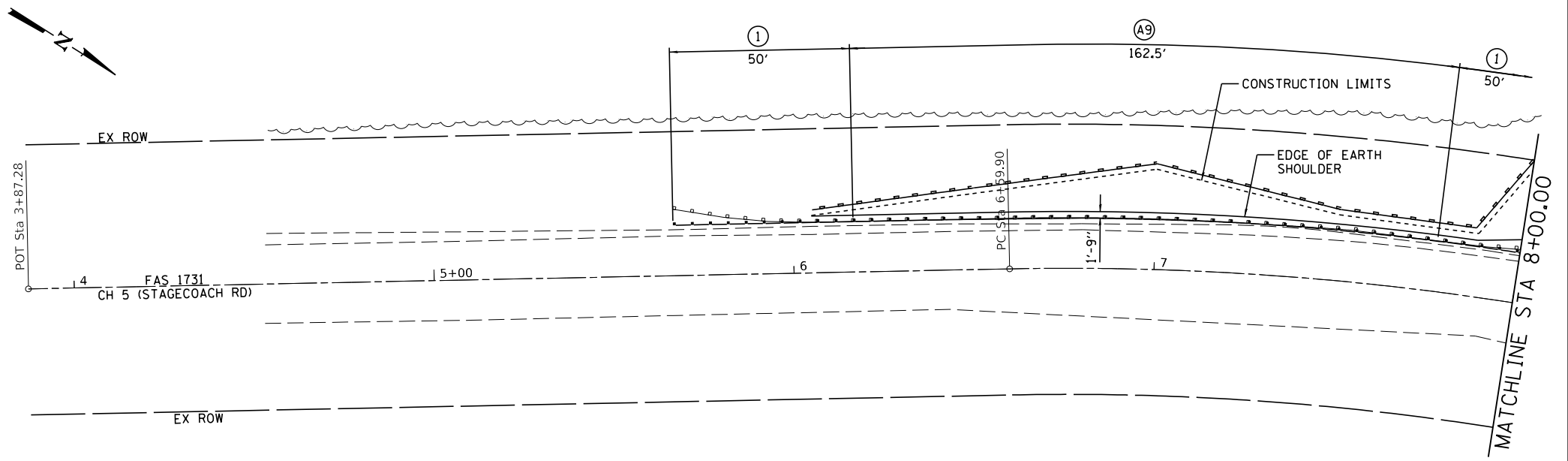
**MACOUPIN COUNTY
 GUARDRAIL IMPROVEMENTS**

PLAN LOCATION 16

SCALE: SHEET OF SHEETS STA. TO STA.

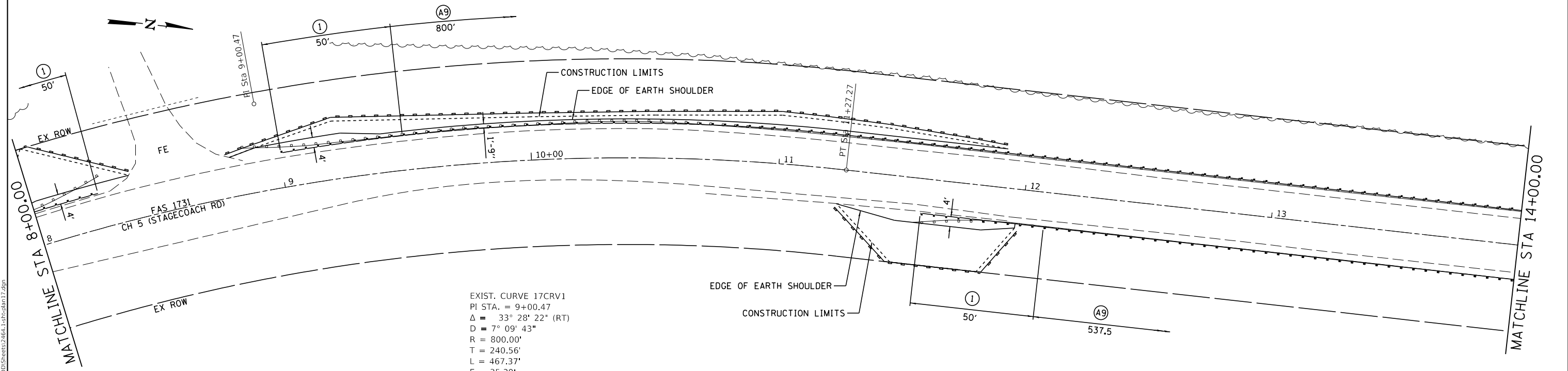
ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	22
CONTRACT NO. 93723				
		ILLINOIS	FED. AID PROJECT	

CH 5			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	3+87.28	933193.82	2369461.84
PC	6+59.90	933420.62	2369310.56
PI	9+00.47	933620.75	2369177.07
PT	11+27.27	933861.31	2369176.10
POT	20+00.00	934734.04	2369172.59
PC	31+85.22	935919.25	2369167.81
PI	32+39.18	935973.21	2369167.60
PT	32+92.73	936025.97	2369178.90
POT	34+31.83	936161.99	2369208.03



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
- PERIMETER EROSION BARRIER
- ▨ EROSION CONTROL BLANKET

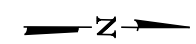
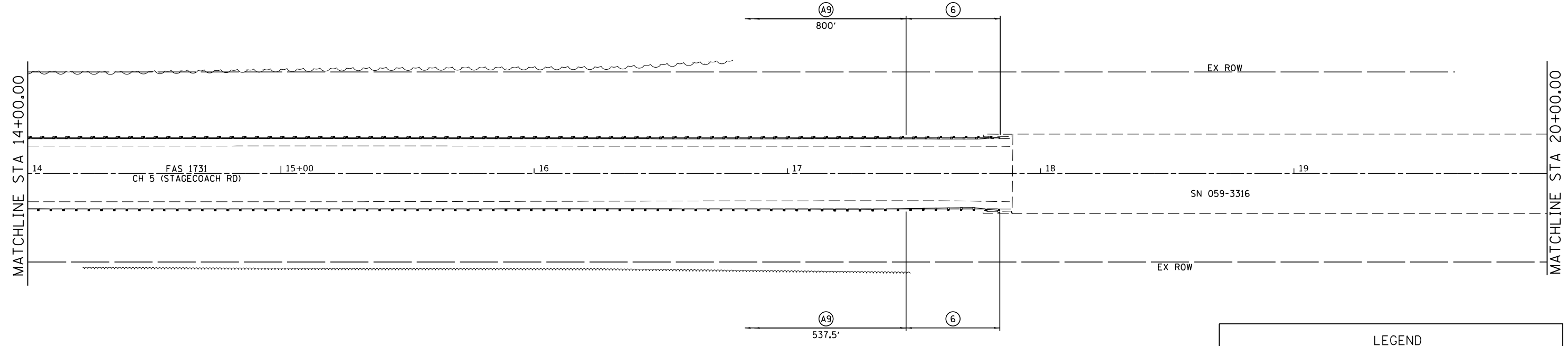
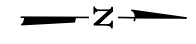


EXIST. CURVE 17CRV1
 PI STA. = 9+00.47
 $\Delta = 33^\circ 28' 22''$ (RT)
 $D = 7^\circ 09' 43''$
 $R = 800.00'$
 $T = 240.56'$
 $L = 467.37'$
 $E = 35.39'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 6+59.90$
 $P.T. STA. = 11+27.27$

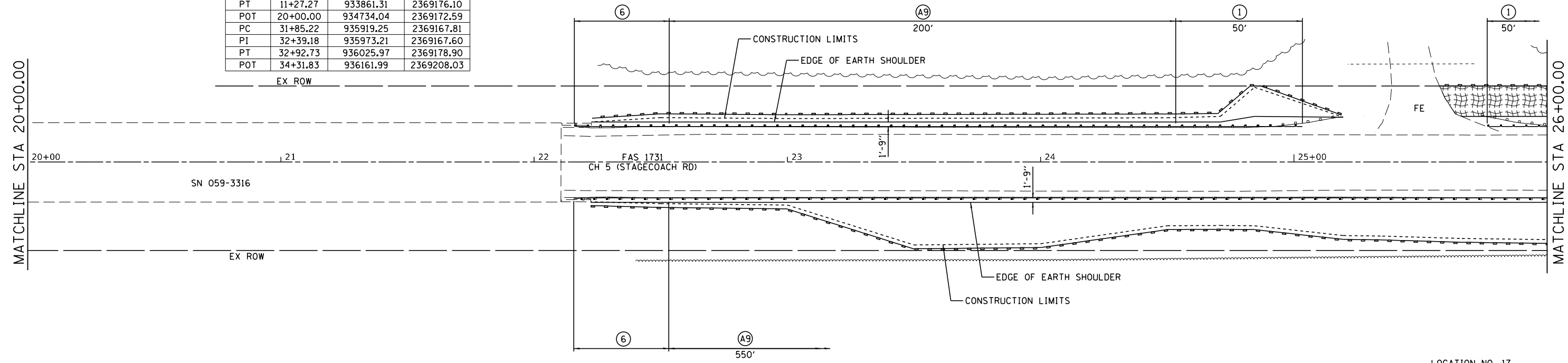
LOCATION NO. 17
 MINOR COLLECTOR
 ADT 600
 DESIGN SPEED 50 MPH

MODEL: Default
 FILE NAME: 24641_16-0100-00-GR-17.dgn

Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2464.1 FILE NAME = 2464.1-ahb-plan17.dgn PLOT SCALE = 40,0000"/in. PLOT DATE = 1/15/2019	DESIGNED - CGF DRAWN - SJS CHECKED - NAK DATE - 7/02/2018	REVISED - REVISED - REVISED - REVISED -	MACOUPIN COUNTY GUARDRAIL IMPROVEMENTS	PLAN LOCATION 17	SCALE:	SHEET OF SHEETS STA. TO STA.	ROUTE VARIOUS SECTION COUNTY TOTAL SHEETS SHEET NO.	16-00100-00-GR MACOUPIN 51 23	ILLINOIS FED. AID PROJECT
	CONTRACT NO. 93723									



CH 5				
CONTROL POINT	STATION	COORDINATES		
		NORTHING	EASTING	
POT	3+87.28	933193.82	2369461.84	
PC	6+59.90	933420.62	2369310.56	
PI	9+00.47	933620.75	2369177.07	
PT	11+27.27	933861.31	2369176.10	
POT	20+00.00	934734.04	2369172.59	
PC	31+85.22	935919.25	2369167.81	
PI	32+39.18	935973.21	2369167.60	
PT	32+92.73	936025.97	2369178.90	
POT	34+31.83	936161.99	2369208.03	



MODEL Default
 FILE NAME: 2464.1_Macoupin_Guardrail_FE1 & PER/CADD/Sheets/2464.1-ehp-plan17.dgn



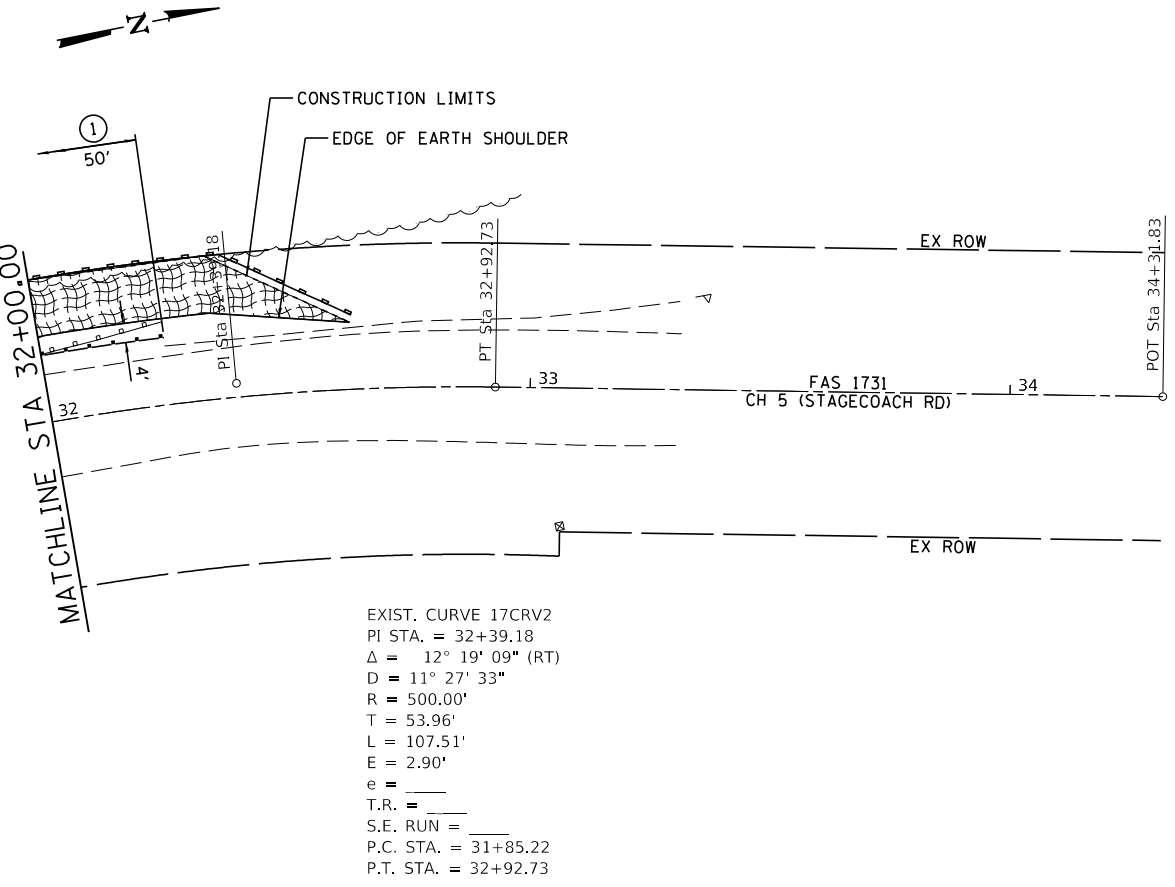
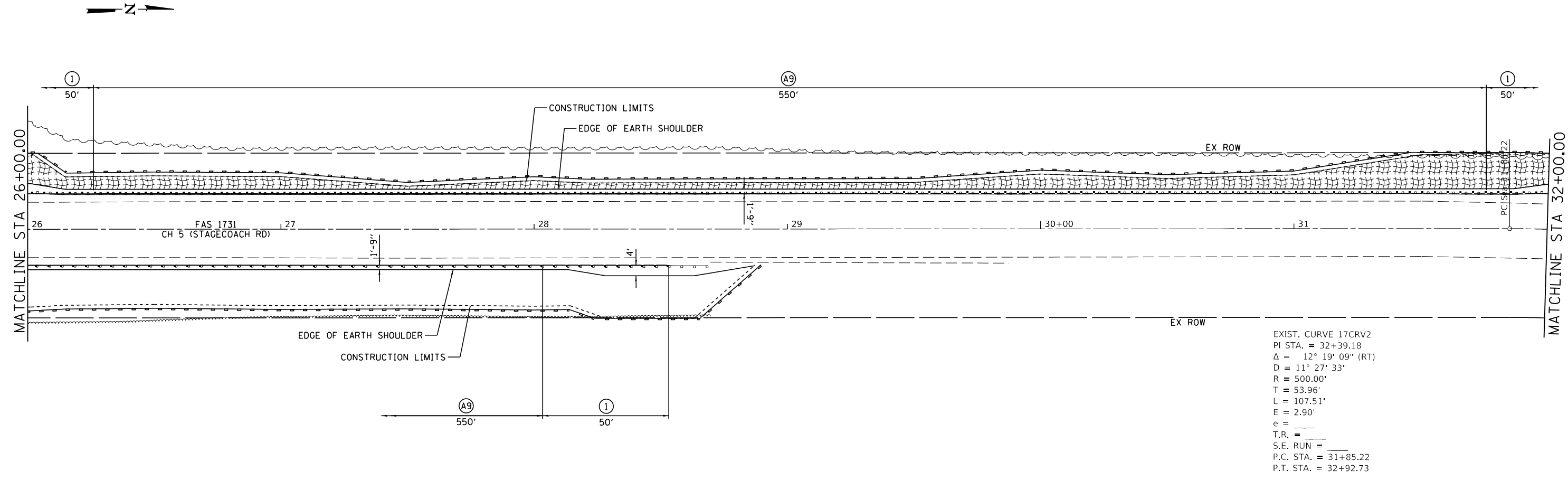
JOB = 2464.1	DESIGNED - CGF	REVISED -
FILE NAME = 2464.1-ehp-plan17.dgn	DRAWN - SJS	REVISED -
PLOT SCALE = 40,000' / 1 in.	CHECKED - NAK	REVISED -
PLOT DATE = 1/15/2019	DATE - 7/02/2018	REVISED -

**MACOUPIN COUNTY
 GUARDRAIL IMPROVEMENTS**

PLAN LOCATION 17

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	24
CONTRACT NO. 93723				
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
- ▨ PERIMETER EROSION BARRIER
- ▩ EROSION CONTROL BLANKET

CH 5			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	3+87.28	933193.82	2369461.84
PC	6+59.90	933420.62	2369310.56
PI	9+00.47	933620.75	2369177.07
PT	11+27.27	933861.31	2369176.10
POT	20+00.00	934734.04	2369172.59
PC	31+85.22	935919.25	2369167.81
PI	32+39.18	935973.21	2369167.60
PT	32+92.73	936025.97	2369178.90
POT	34+31.83	936161.99	2369208.03

LOCATION NO. 17
 MINOR COLLECTOR
 ADT 600
 DESIGN SPEED 50 MPH

MODEL Default
 FILE NAME: 2464.1-Macoupin17.dgn
 PLOT DATE: 7/2/2018



JOB = 2464.1
 FILE NAME = 2464.1-ehp-17.dgn
 PLOT SCALE = 40,000' / 1" =
 PLOT DATE = 1/15/2019

DESIGNED - CGF
 DRAWN - SJS
 CHECKED - NAK
 DATE - 7/02/2018

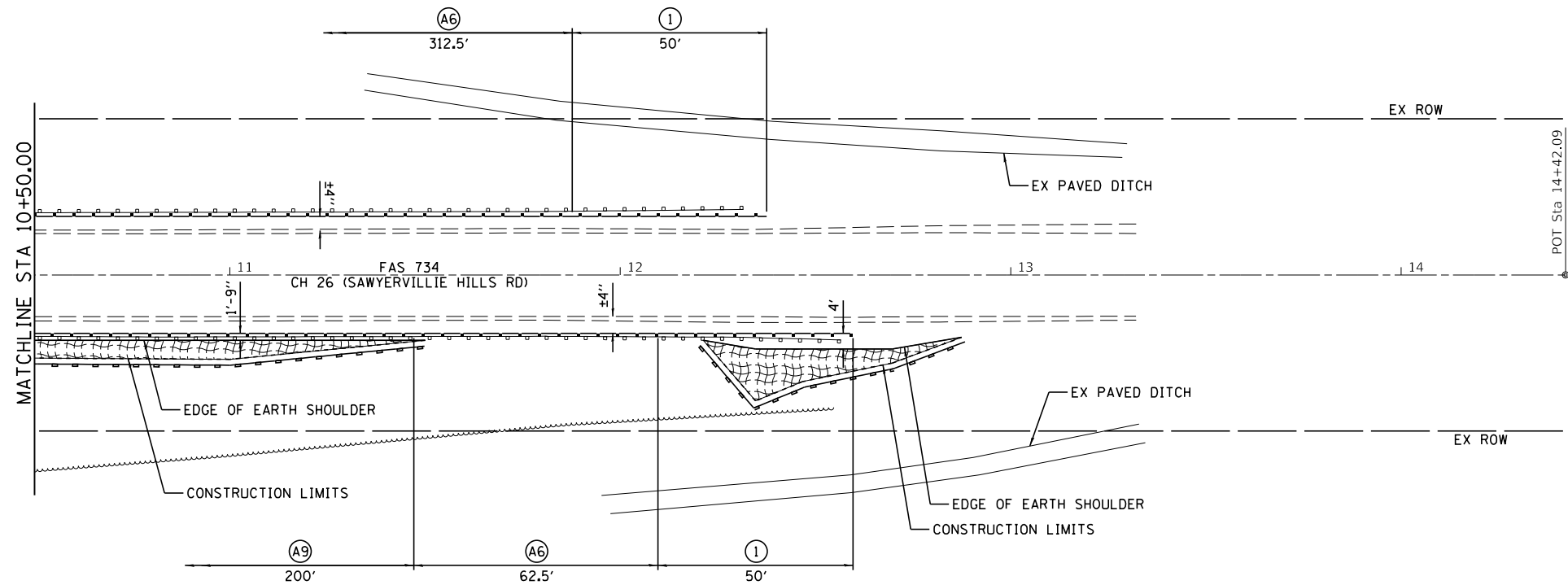
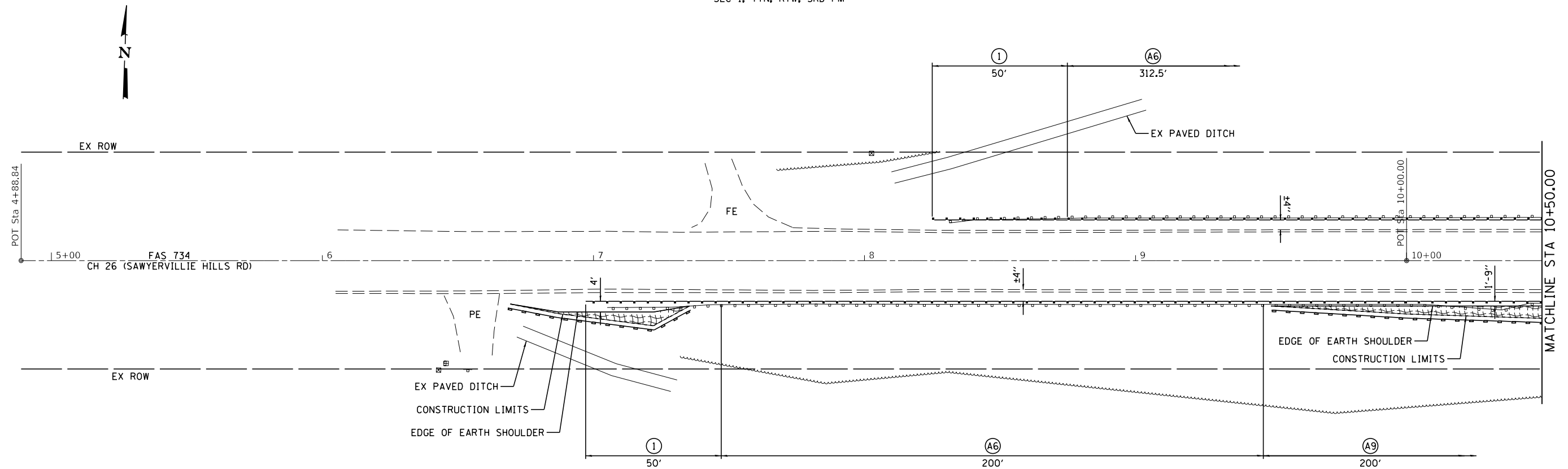
REVISED -
 REVISED -
 REVISED -
 REVISED -

**MACOUPIN COUNTY
 GUARDRAIL IMPROVEMENTS**

PLAN LOCATION 17

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	25
CONTRACT NO. 93723				
ILLINOIS			FED. AID PROJECT	



- 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
 - PERIMETER EROSION BARRIER
 - EROSION CONTROL BLANKET

CH 26			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	4+88.84	878311.25	2396184.55
POT	10+00.00	878328.78	2396695.41
POT	14+42.09	878343.93	2397137.24

LOCATION NO. 20
 MINOR COLLECTOR
 ADT 1000
 DESIGN SPEED 50 MPH

MODEL: Default
 FILE NAME: 2464_1-ehp-plan20.dgn
 MODEL: Default
 FILE NAME: 2464_1-ehp-plan20.dgn



JOB = 2464.1
 FILE NAME = 2464_1-ehp-plan20.dgn
 PLOT SCALE = 40,0000' / in.
 PLOT DATE = 1/15/2019

DESIGNED - CGF
 DRAWN - SJS
 CHECKED - NAK
 DATE - 11/27/2018

REVISED -
 REVISED -
 REVISED -
 REVISED -

**MACOUPIN COUNTY
 GUARDRAIL IMPROVEMENTS**

PLAN LOCATION 20

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	26
CONTRACT NO. 93723				
ILLINOIS FED. AID PROJECT				

SEC 1, T7N, R6W, 3RD PM

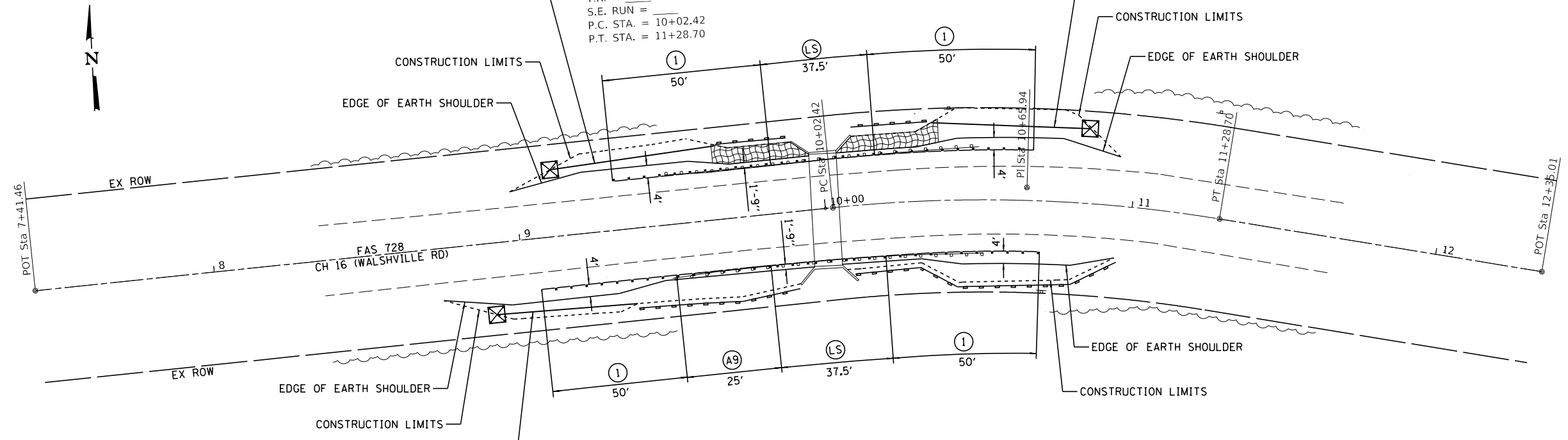
EXIST. CURVE CRV21
 PI STA. = 10+65.94
 $\Delta = 15^\circ 13' 55''$ (RT)
 $D = 12^\circ 03' 44''$
 $R = 475.00'$
 $T = 63.51'$
 $L = 126.28'$
 $E = 4.23'$
 $e = \text{---}$
 $T.R. = \text{---}$
 $S.E. \text{ RUN} = \text{---}$
 $P.C. \text{ STA.} = 10+02.42$
 $P.T. \text{ STA.} = 11+28.70$

PR PIPE CULVERT, CLASS D,
 TYPE 1 15"x54'
 USFL 21.8' LT STA 9+21.1 660.5
 DSFL 24.0' LT STA 9+66.0 660.7

PR PIPE CULVERT, CLASS D,
 TYPE 1 15"x52'
 USFL 24.4' LT STA 10+84.6 661.0
 DSFL 25.4' LT STA 10+35.2 660.1

PR PIPE CULVERTS, CLASS D,
 TYPE 1 15"x46'
 USFL 23.3' RT STA 8+90.1 661.5
 DSFL 24.5' RT STA 9+36.1 661.0

SEC 12, T7N, R6W, 3RD PM



LEGEND

- (A9) STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- (LS) LONG-SPAN GUARDRAIL OVER CULVERT, 12 FT 6 IN SPAN
- (I) TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ☒ INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER
- ▨ EROSION CONTROL BLANKET

CH 16			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+41.46	876342.99	2427510.69
POT	10+00.00	876357.30	2427768.83
PC	10+02.42	876357.44	2427771.25
PI	10+65.94	876360.95	2427834.67
PT	11+28.70	876347.68	2427896.78
POT	12+35.01	876325.47	2428000.75

LOCATION NO. 21
 MAJOR COLLECTOR
 ADT 525
 DESIGN SPEED 50 MPH

MODEL: Default
 FILE NAME: 24641_16-0100-00-GR.dwg
 FILE NAME: 24641_16-0100-00-GR.dwg



JOB = 2464.1	DESIGNED - CGF	REVISED -
FILE NAME = 2464.1-ehp-plan21.dwg	DRAWN - SJS	REVISED -
PLOT SCALE = 40,000' / 1 in.	CHECKED - NAK	REVISED -
PLOT DATE = 1/15/2019	DATE - 7/02/2018	REVISED -

MACOUPIN COUNTY
 GUARDRAIL IMPROVEMENTS

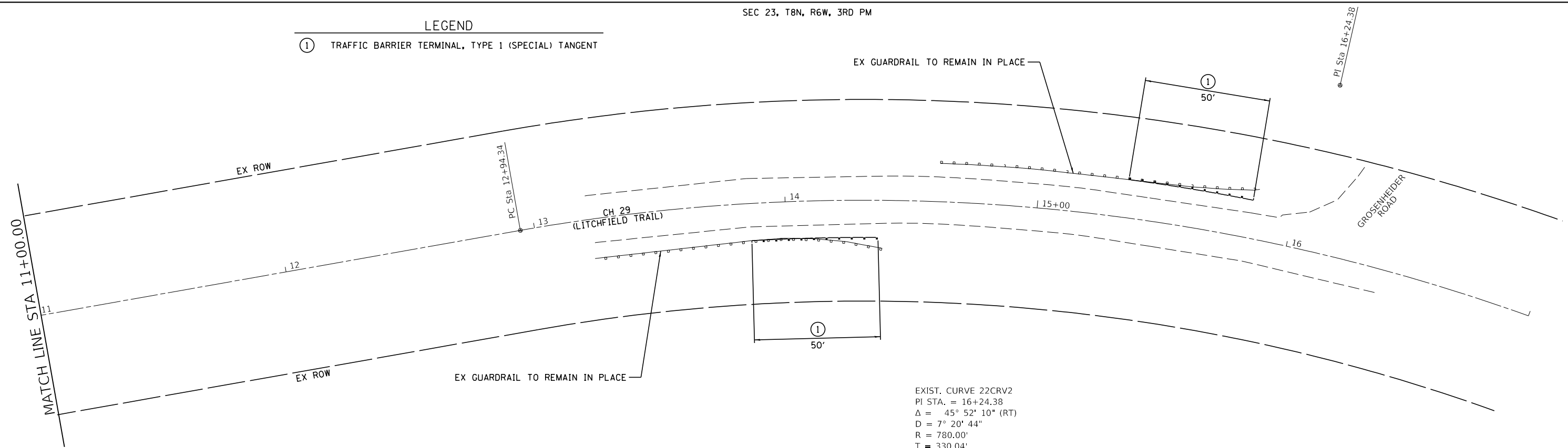
PLAN LOCATION 21

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	27
CONTRACT NO. 93723				
		ILLINOIS	FED. AID PROJECT	

LEGEND

① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT



EXIST. CURVE 22CRV2
 PI STA. = 16+24.38
 $\Delta = 45^\circ 52' 10''$ (RT)
 $D = 7^\circ 20' 44''$
 $R = 780.00'$
 $T = 330.04'$
 $L = 624.45'$
 $E = 66.95'$
 $e = \text{---}$
 $T.R. = \text{---}$
 $S.E. RUN = \text{---}$
 $P.C. STA. = 12+94.34$
 $P.T. STA. = 19+18.79$

CH 29			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	0+08.01	893056.25	2423830.32
PC	1+40.18	893188.42	2423831.07
PI	4+72.85	893521.09	2423832.97
PT	7+69.08	893752.72	2423594.20
POT	10+00.00	893913.51	2423428.45
PC	12+94.34	894118.46	2423217.19
PI	16+24.38	894348.27	2422980.30
PT	19+18.79	894678.31	2422980.30

LOCATION NO. 22
 LOCAL COLLECTOR
 ADT 250
 DESIGN SPEED 30 MPH

MODEL: Default
 FILE NAME: 2464.1 - Macoupin Guardrail FE1 & PE1 (CADD) Sheets 2464.1 - ch29plan22.dgn



JOB = 2464.1
 FILE NAME = 2464.1 - ch29plan22.dgn
 PLOT SCALE = 40,0000" / 1 in.
 PLOT DATE = 1/15/2019

DESIGNED - CGF
 DRAWN - SJS
 CHECKED - NAK
 DATE - 9/05/2018

REVISED -
 REVISED -
 REVISED -
 REVISED -

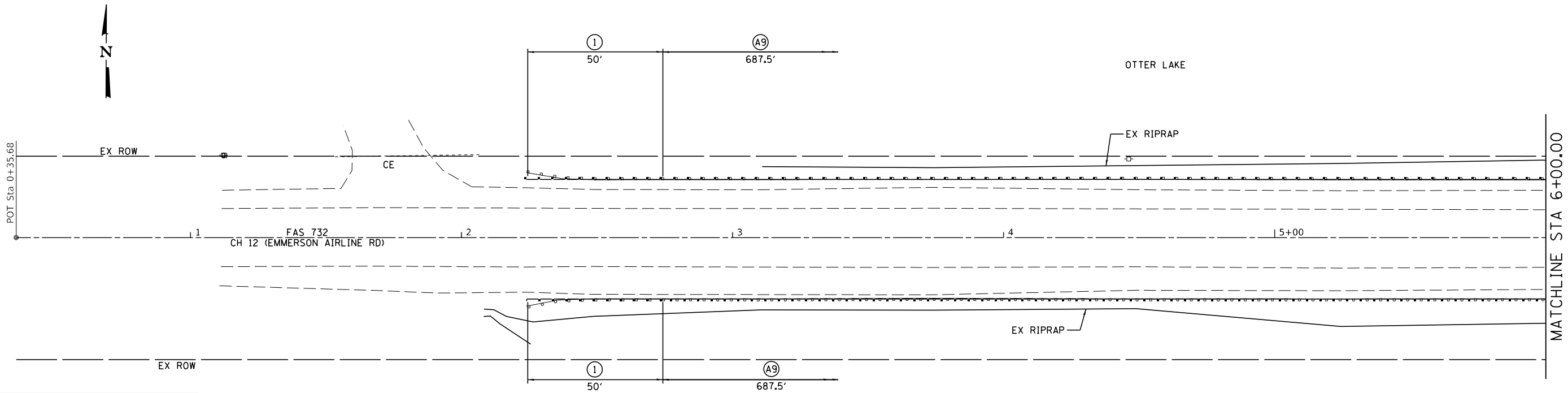
MACOUPIN COUNTY
 GUARDRAIL IMPROVEMENTS

PLAN LOCATION 22

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	29
CONTRACT NO. 93723				
		ILLINOIS	FED. AID PROJECT	

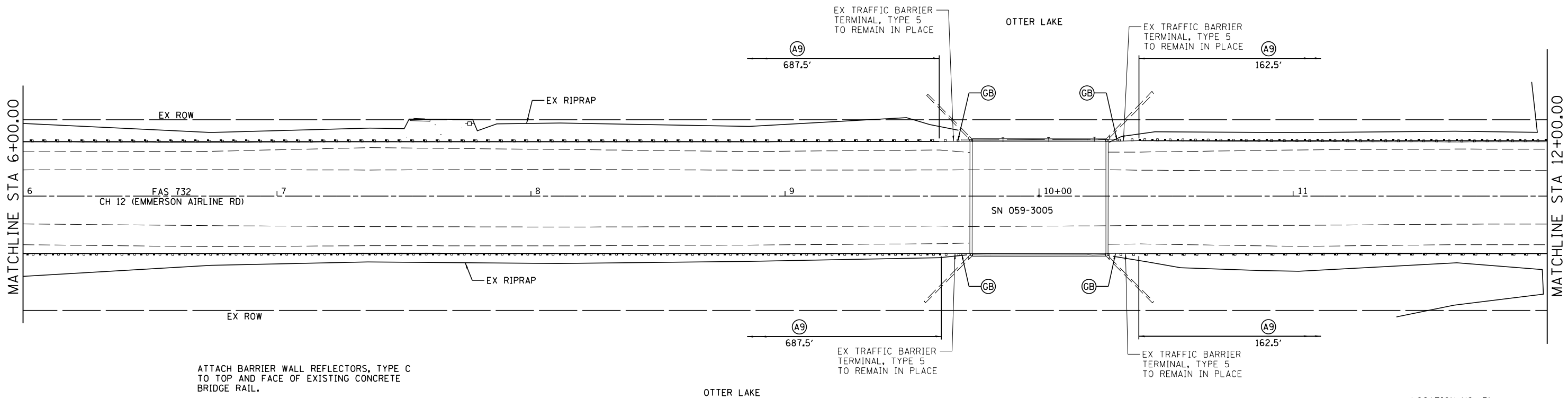
SEC 32, T12N, R7W, 3RD PM



CH 12			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	0+35.68	1008174.22	2371837.85
POT	10+00.00	1008177.71	2372802.16
POT	14+99.28	1008179.52	2373301.44

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

SEC 5, T11N, R7W, 3RD PM
SEC 32, T12N, R7W, 3RD PM



ATTACH BARRIER WALL REFLECTORS, TYPE C TO TOP AND FACE OF EXISTING CONCRETE BRIDGE RAIL.

OTTER LAKE

LOCATION NO. 31
MAJOR COLLECTOR
ADT 1000
DESIGN SPEED 50 MPH

SEC 5, T11N, R7W, 3RD PM

MODEL: Default
FILE NAME: 2464_1-2464_1-Macoupin-Guardrail-FEI & PER-CADD-Sheets2464-1-eh-plan31.dgn



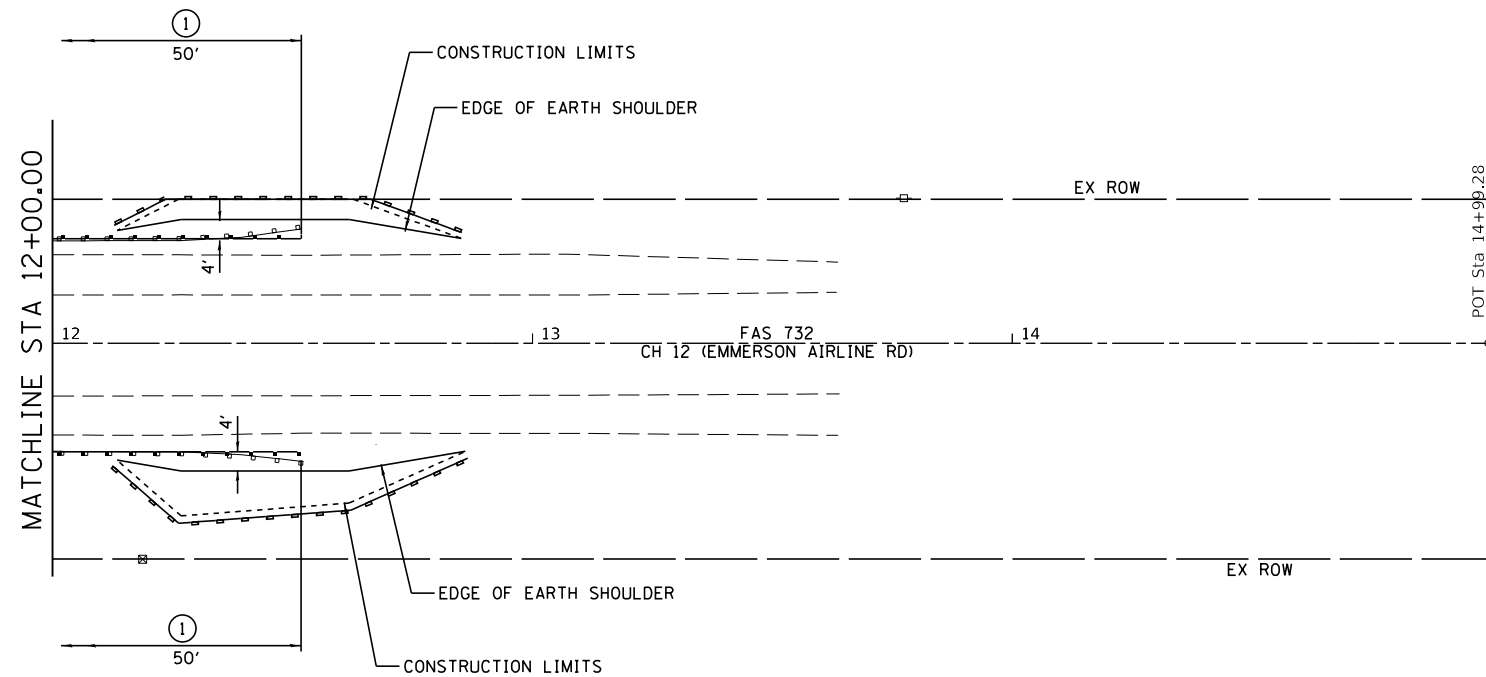
JOB = 2464.1	DESIGNED - CGF	REVISED -
FILE NAME = 2464_1-eh-plan31.dgn	DRAWN - SJS	REVISED -
PLOT SCALE = 40,000' / 1 in.	CHECKED - NAK	REVISED -
PLOT DATE = 1/15/2019	DATE - 7/03/2018	REVISED -

**MACOUPIN COUNTY
GUARDRAIL IMPROVEMENTS**

PLAN LOCATION 31

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	30
CONTRACT NO. 93723			ILLINOIS FED. AID PROJECT	



CH 12			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	0+35.68	1008174.22	2371837.85
POT	10+00.00	1008177.71	2372802.16
POT	14+99.28	1008179.52	2373301.44

LEGEND

①	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
—●—●—●—	PERIMETER EROSION BARRIER

LOCATION NO. 31
 MAJOR COLLECTOR
 ADT 1000
 DESIGN SPEED 50 MPH

MODEL: Default
 FILE NAME: 2464.1 - Macoupin Guardrail FE1 & PER/CADD/Sheets/2464.1-eh-pln31.dgn



JOB = 2464.1	DESIGNED - CGF	REVISED -
FILE NAME = 2464.1-eh-pln31.dgn	DRAWN - SJS	REVISED -
PLOT SCALE = 40,000' / 1in.	CHECKED - NAK	REVISED -
PLOT DATE = 1/15/2019	DATE - 7/03/2018	REVISED -

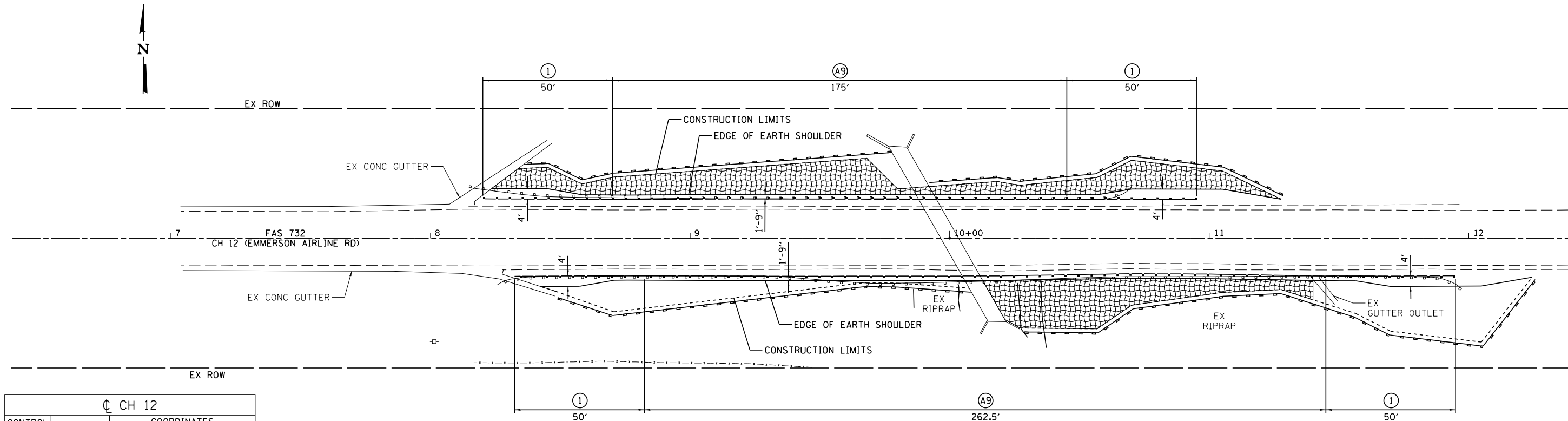
**MACOUPIN COUNTY
 GUARDRAIL IMPROVEMENTS**

PLAN LOCATION 31

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	31
CONTRACT NO. 93723				
		ILLINOIS	FED. AID PROJECT	

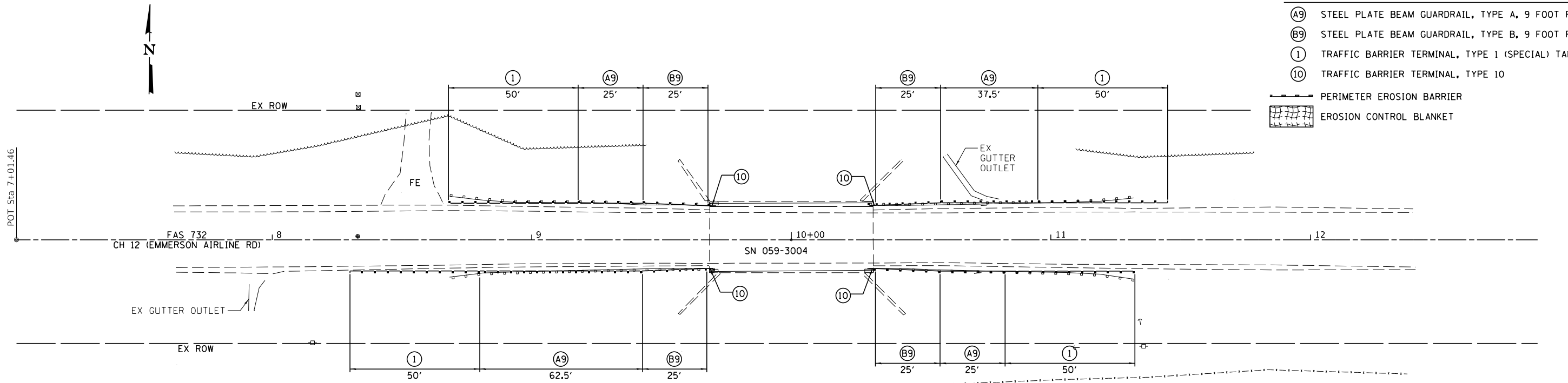
SEC 35, T12N, R8W, 3RD PM



CH 12			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+14.42	1008021.30	2355881.43
POT	10+00.00	1008024.97	2356267.00
POT	13+57.67	1008028.36	2356624.65

LOCATION NO. 33
MAJOR COLLECTOR
ADT 900
DESIGN SPEED 50 MPH

SEC 2, T11N, R8W, 3RD PM
SEC 35, T12N, R8W, 3RD PM



CH 12			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+01.46	1008028.10	2356667.73
POT	10+00.00	1008031.73	2356966.25
POT	13+17.32	1008035.59	2357283.54

ATTACH BARRIER WALL REFLECTORS, TYPE C
TO TOP OF EXISTING CONCRETE BRIDGE RAIL.
ATTACH CURB REFLECTORS TO BRIDGE RAIL CURB.

LOCATION NO. 32
MAJOR COLLECTOR
ADT 900
DESIGN SPEED 50 MPH

SEC 2, T11N, R8W, 3RD PM

LEGEND	
(A9)	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
(B9)	STEEL PLATE BEAM GUARDRAIL, TYPE B, 9 FOOT POSTS
(1)	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
(10)	TRAFFIC BARRIER TERMINAL, TYPE 10
(---)	PERIMETER EROSION BARRIER
([Grid])	EROSION CONTROL BLANKET

**MACOUPIN COUNTY
GUARDRAIL IMPROVEMENTS**

PLAN LOCATIONS 32 & 33



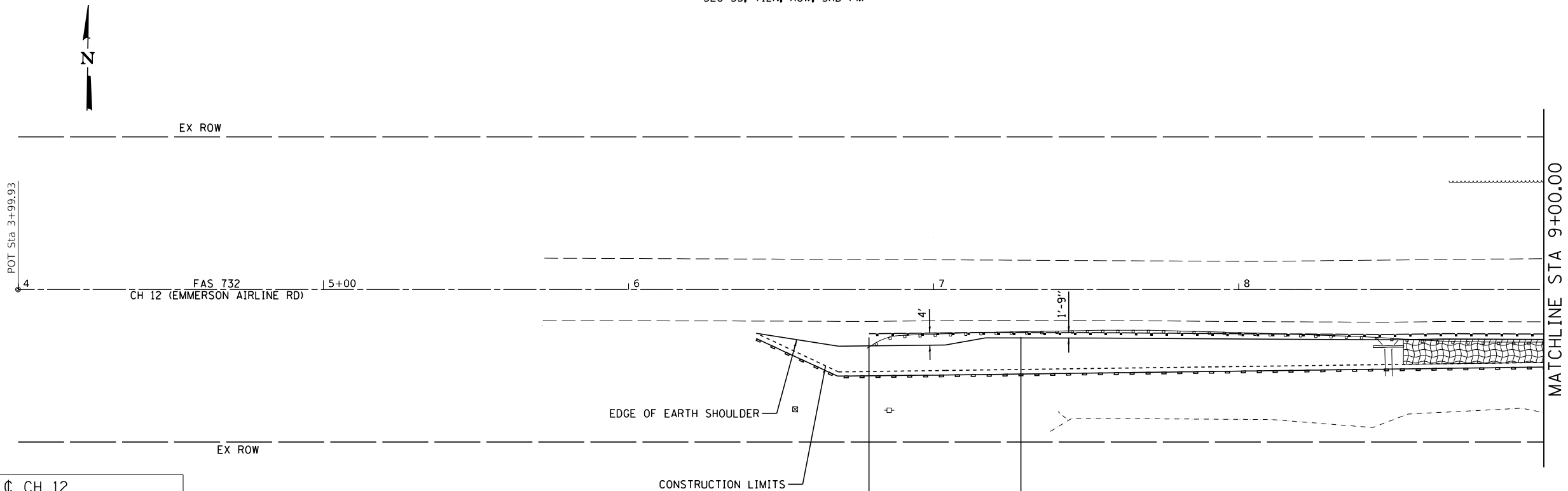
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PLOT SCALE = 40,000' / 1" = 1/15/2019

DESIGNED -	CGF	REVISED -	
DRAWN -	SJS	REVISED -	
CHECKED -	NAK	REVISED -	
DATE -	7/03/2018	REVISED -	

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.

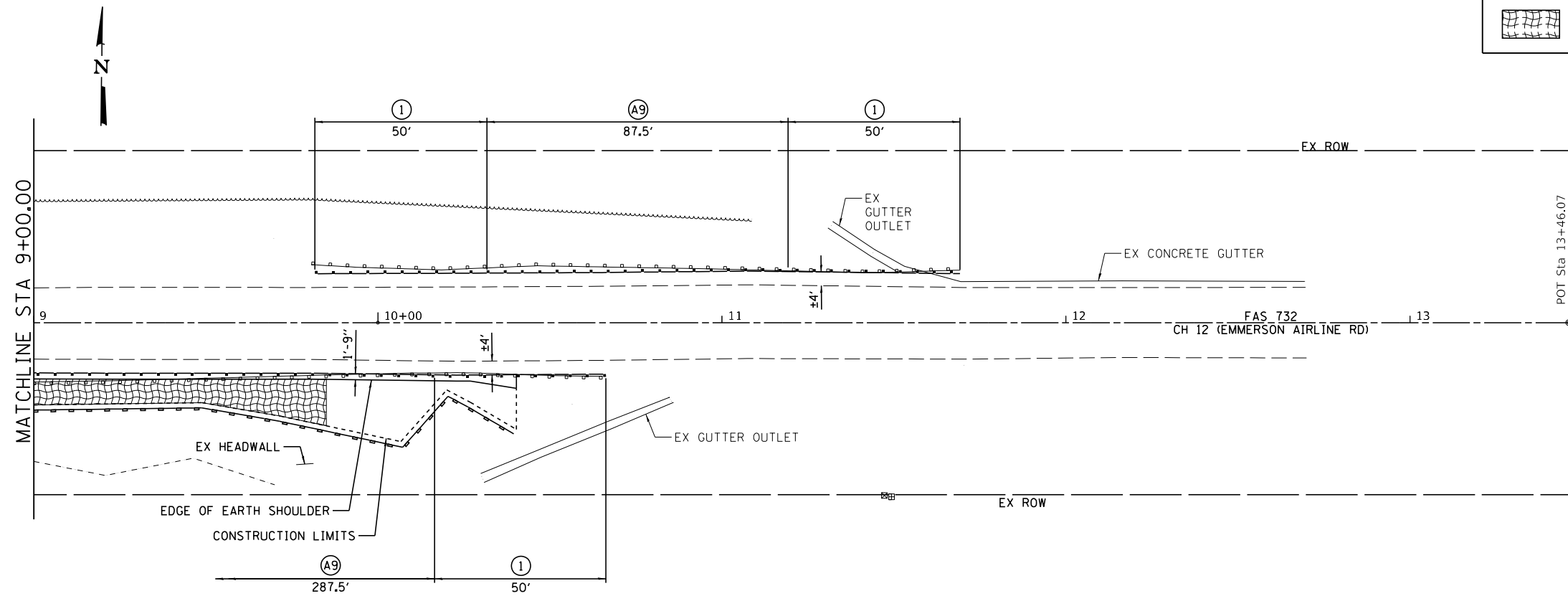
ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	32
CONTRACT NO. 93723				
ILLINOIS FED. AID PROJECT				

MODEL: Default
FILE NAME: 2464.1-Macoupin_Guardrail_FEI & PER_CADD_Sheets\2464.1-shl-plan32_33.dgn



CH 12			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	3+99.93	1008005.74	2354560.96
POT	10+00.00	1008013.17	2355160.99
POT	13+46.07	1008017.45	2355507.03

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



LOCATION NO. 34
MAJOR COLLECTOR
ADT 900
DESIGN SPEED 50 MPH

MODEL: Default
FILE NAME: 24641_16-0100-GR-16-0100-GR-16-0100-GR.dgn



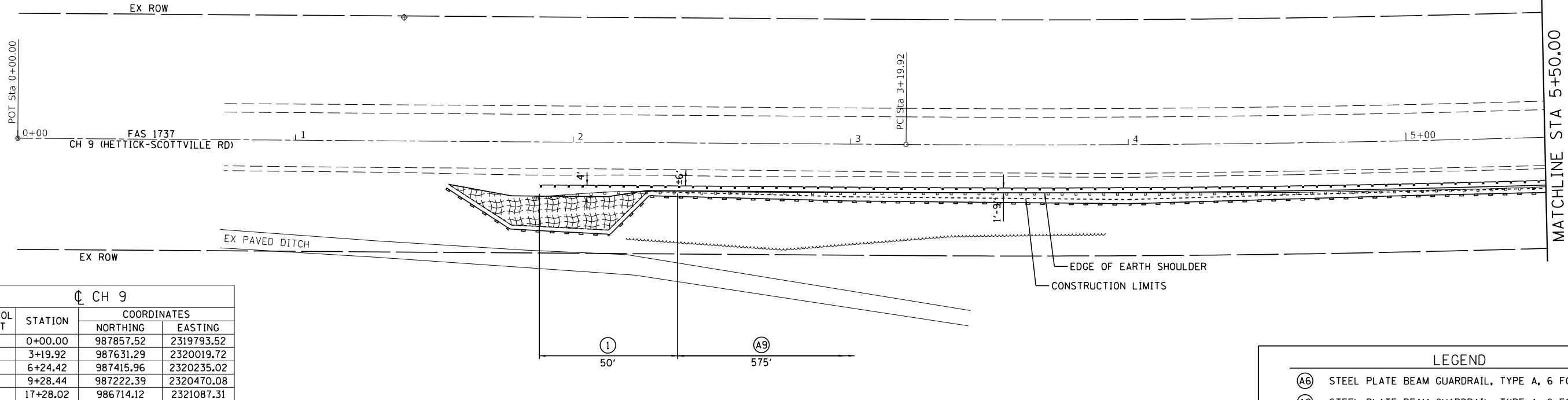
JOB = 2464.1	DESIGNED - CGF	REVISED -
FILE NAME = 2464.1-ehk-plan34.dgn	DRAWN - SJS	REVISED -
PLOT SCALE = 40,000.00 / in.	CHECKED - NAK	REVISED -
PLOT DATE = 1/15/2019	DATE - 7/03/2018	REVISED -

**MACOUPIN COUNTY
GUARDRAIL IMPROVEMENTS**

PLAN LOCATION 34

SCALE: SHEET OF SHEETS STA. TO STA.

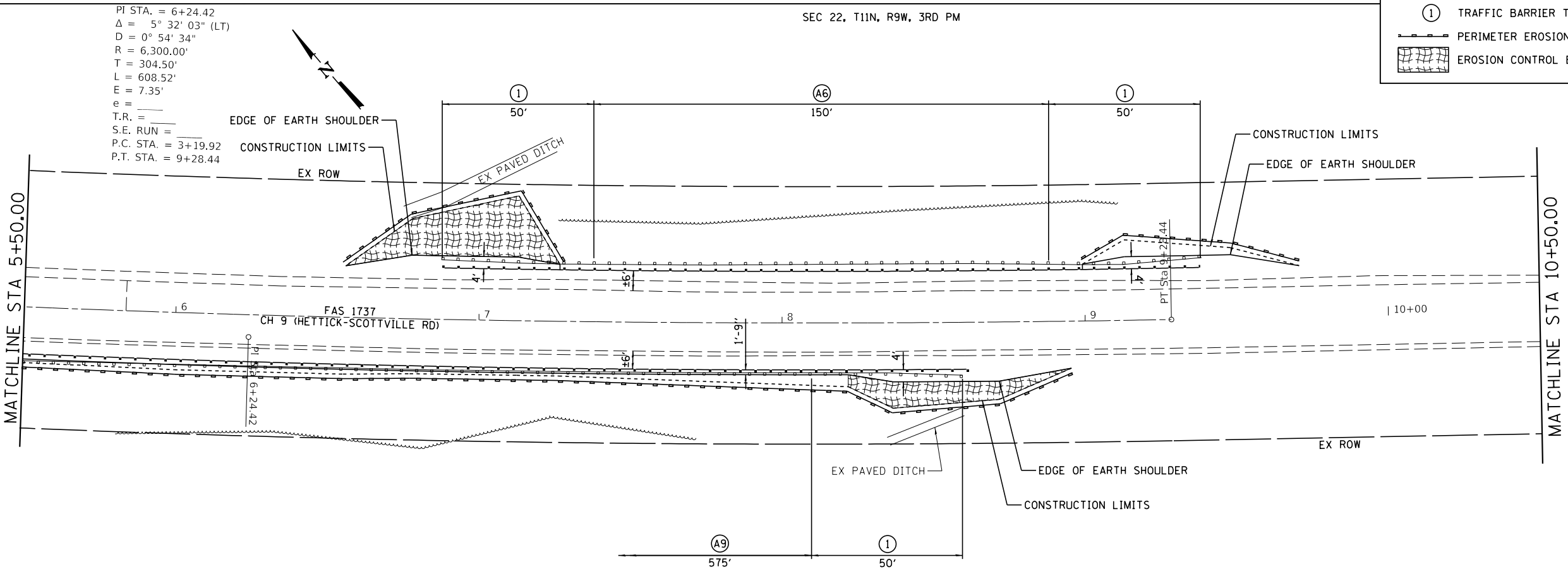
ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	33
CONTRACT NO. 93723				
		ILLINOIS	FED. AID PROJECT	



CH 9			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	0+00.00	987857.52	2319793.52
PC	3+19.92	987631.29	2320019.72
PI	6+24.42	987415.96	2320235.02
PT	9+28.44	987222.39	2320470.08
POT	17+28.02	986714.12	2321087.31

LEGEND	
(A6)	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
(A9)	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
(1)	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
	PERIMETER EROSION BARRIER
	EROSION CONTROL BLANKET

PI STA. = 6+24.42
 $\Delta = 5^\circ 32' 03''$ (LT)
 $D = 0^\circ 54' 34''$
 $R = 6,300.00'$
 $T = 304.50'$
 $L = 608.52'$
 $E = 7.35'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 3+19.92$
 $P.T. STA. = 9+28.44$



LOCATION NO. 39
 MINOR COLLECTOR
 ADT 200
 DESIGN SPEED 40 MPH

MODEL: Default
 FILE NAME: 2464.1_Macoupin_Guardrail_P1 & P2_CADD_Sheets2464.1-40.dgn

CEC Cummins
 Engineering
 Corporation
 Civil and Structural Engineering

JOB = 2464.1
 FILE NAME = 2464.1-ehp-plan39_40.dgn
 PLOT SCALE = 40,0000' / 1in.
 PLOT DATE = 1/15/2019

DESIGNED - CGF
 DRAWN - SJS
 CHECKED - NAK
 DATE - 7/09/2018

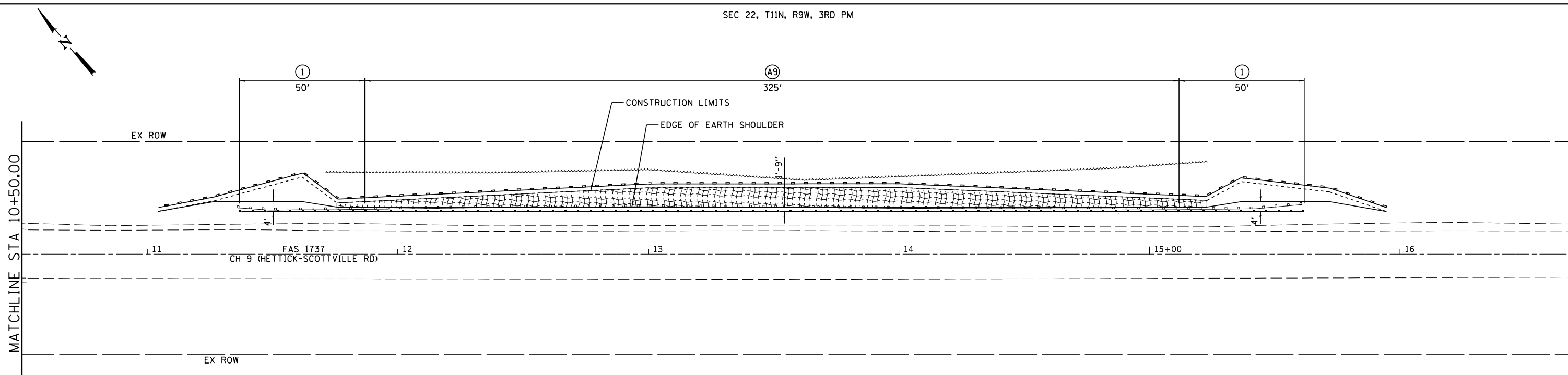
REVISED -
 REVISED -
 REVISED -
 REVISED -

**MACOUPIN COUNTY
 GUARDRAIL IMPROVEMENTS**

PLAN LOCATIONS 39 & 40

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	34
CONTRACT NO. 93723				
ILLINOIS FED. AID PROJECT				



CH 9			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	0+00.00	987857.52	2319793.52
PC	3+19.92	987631.29	2320019.72
PI	6+24.42	987415.96	2320235.02
PT	9+28.44	987222.39	2320470.08
POT	17+28.02	986714.12	2321087.31

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

LOCATION NO. 40
MINOR COLLECTOR
ADT 200
DESIGN SPEED 40 MPH

MODEL: Default
FILE NAME: 2464.1_Macoupin_Guardrail_FEI & PER/CADD/Sheets/2464.1-eh-plan39_40.dgn



JOB = 2464.1	DESIGNED - CGF	REVISED -
FILE NAME = 2464.1-eh-plan39_40.dgn	DRAWN - SJS	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - NAK	REVISED -
PLOT DATE = 1/15/2019	DATE - 7/09/2018	REVISED -

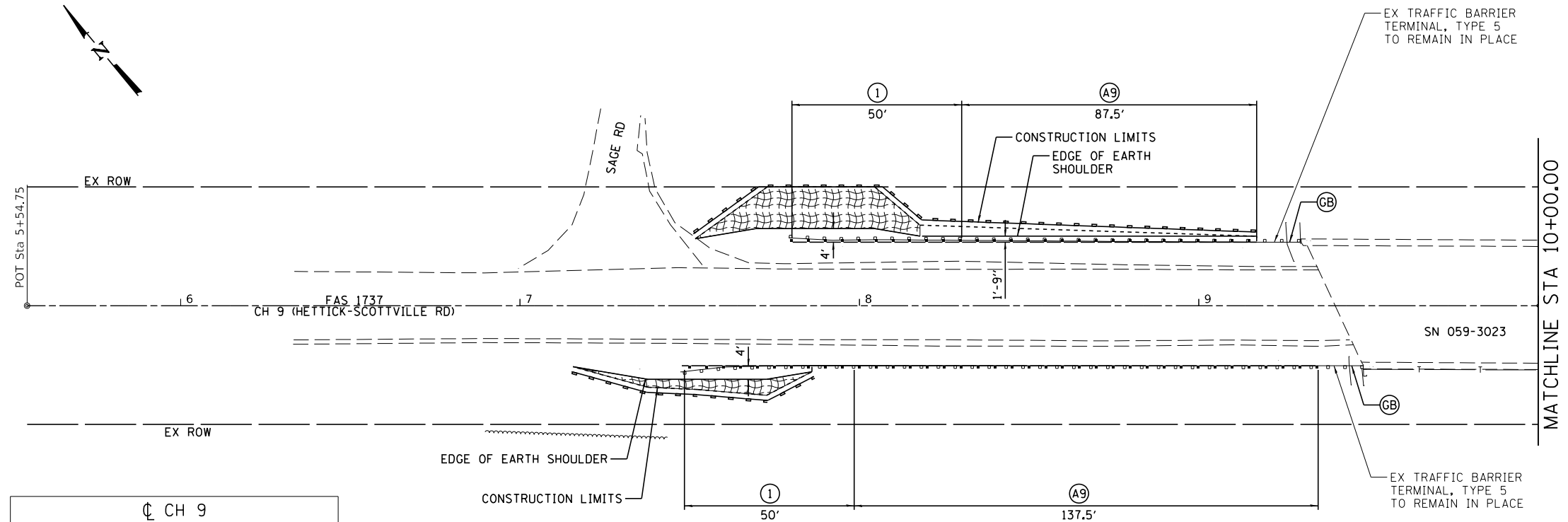
**MACOUPIN COUNTY
GUARDRAIL IMPROVEMENTS**

PLAN LOCATIONS 39 & 40

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	35
CONTRACT NO. 93723				
		ILLINOIS	FED. AID PROJECT	

SEC 22, T11N, R9W, 3RD PM

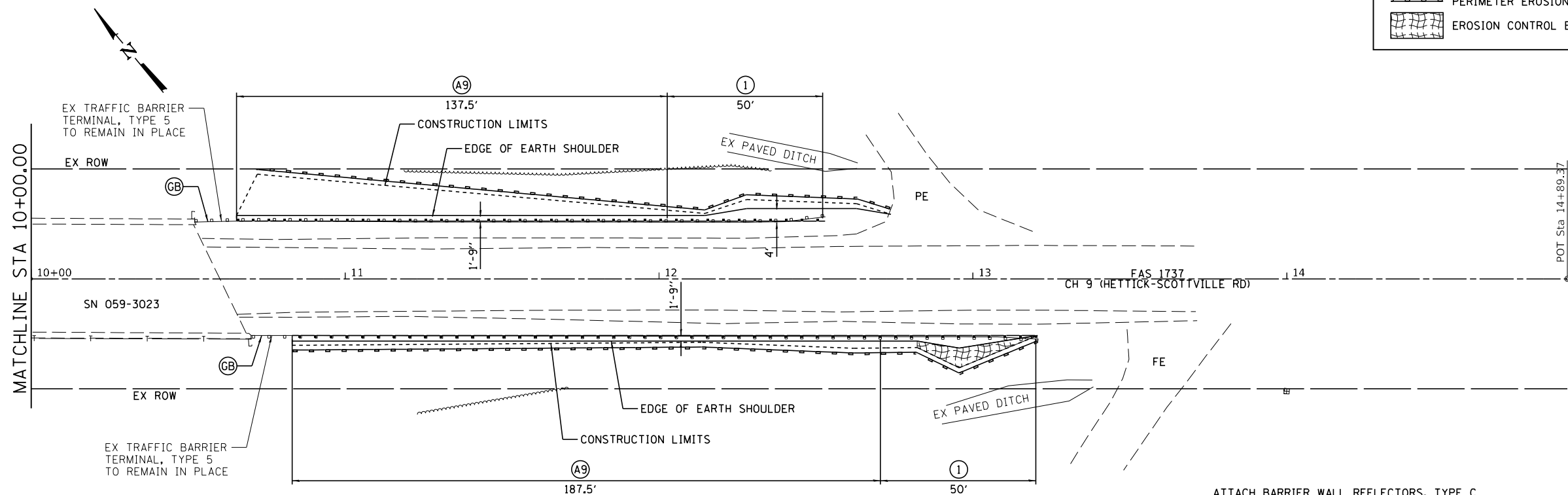


CH 9			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	5+54.75	986541.89	2321295.59
POT	10+00.00	986258.86	2321639.31
POT	14+89.37	985947.79	2322017.10

LEGEND	
(A9)	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
(1)	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
(GB)	GUARDRAIL BLOCKS
---	PERIMETER EROSION BARRIER
[Grid Pattern]	EROSION CONTROL BLANKET

SEC 27, T11N, R9W, 3RD PM

SEC 22, T11N, R9W, 3RD PM



ATTACH BARRIER WALL REFLECTORS, TYPE C TO TOP AND FACE OF EXISTING CONCRETE BRIDGE RAIL.

LOCATION NO. 41
MINOR COLLECTOR
ADT 200
DESIGN SPEED 40 MPH

SEC 27, T11N, R9W, 3RD PM

MODEL: Default
FILE NAME: 24641.dgn
FILE NAME: 24641.dgn
FILE NAME: 24641.dgn



JOB = 2464.1
FILE NAME = 2464.1-shh-plan41.dgn
PLOT SCALE = 40,000' / 1 in.
PLOT DATE = 1/15/2019

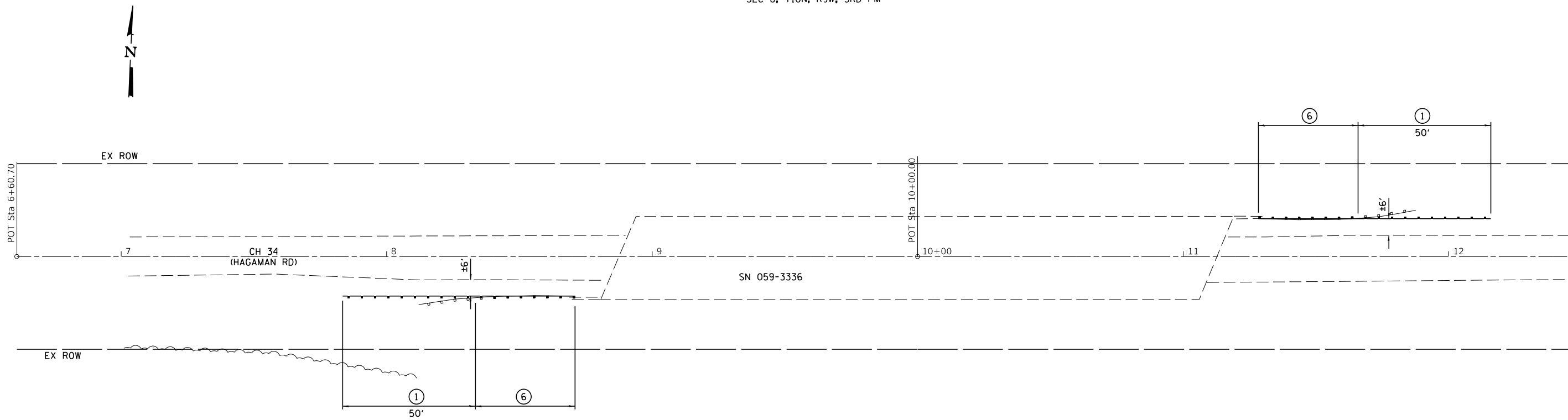
DESIGNED - CGF	REVISED -
DRAWN - SJS	REVISED -
CHECKED - NAK	REVISED -
DATE - 7/09/2018	REVISED -

**MACOUPIN COUNTY
GUARDRAIL IMPROVEMENTS**

PLAN LOCATION 41

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	36
			CONTRACT NO. 93723	
		ILLINOIS	FED. AID PROJECT	



LEGEND

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ⑥ TRAFFIC BARRIER TERMINAL, TYPE 6

CH 34			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+60.70	966206.07	2307375.58
POT	10+00.00	966221.47	2307714.53
POT	13+26.10	966236.28	2308040.29

ATTACH BARRIER WALL REFLECTORS, TYPE C TO TOP AND FACE OF EXISTING CONCRETE BRIDGE RAIL.

LOCATION NO. 45
LOCAL ROAD
ADT 50
DESIGN SPEED 30 MPH

MODEL: Default
FILE NAME: 2464.1-2464.1-Macoupin-Guardrail-FEI & PEI-CADD-Sheets2464-1-ht-plan45.dgn



JOB = 2464.1	DESIGNED - CGF	REVISED -
FILE NAME = 2464.1-ht-plan45.dgn	DRAWN - SJS	REVISED -
PLOT SCALE = 40,000' / 1 in.	CHECKED - NAK	REVISED -
PLOT DATE = 1/15/2019	DATE - 11/21/2018	REVISED -

MACOUPIN COUNTY
GUARDRAIL IMPROVEMENTS

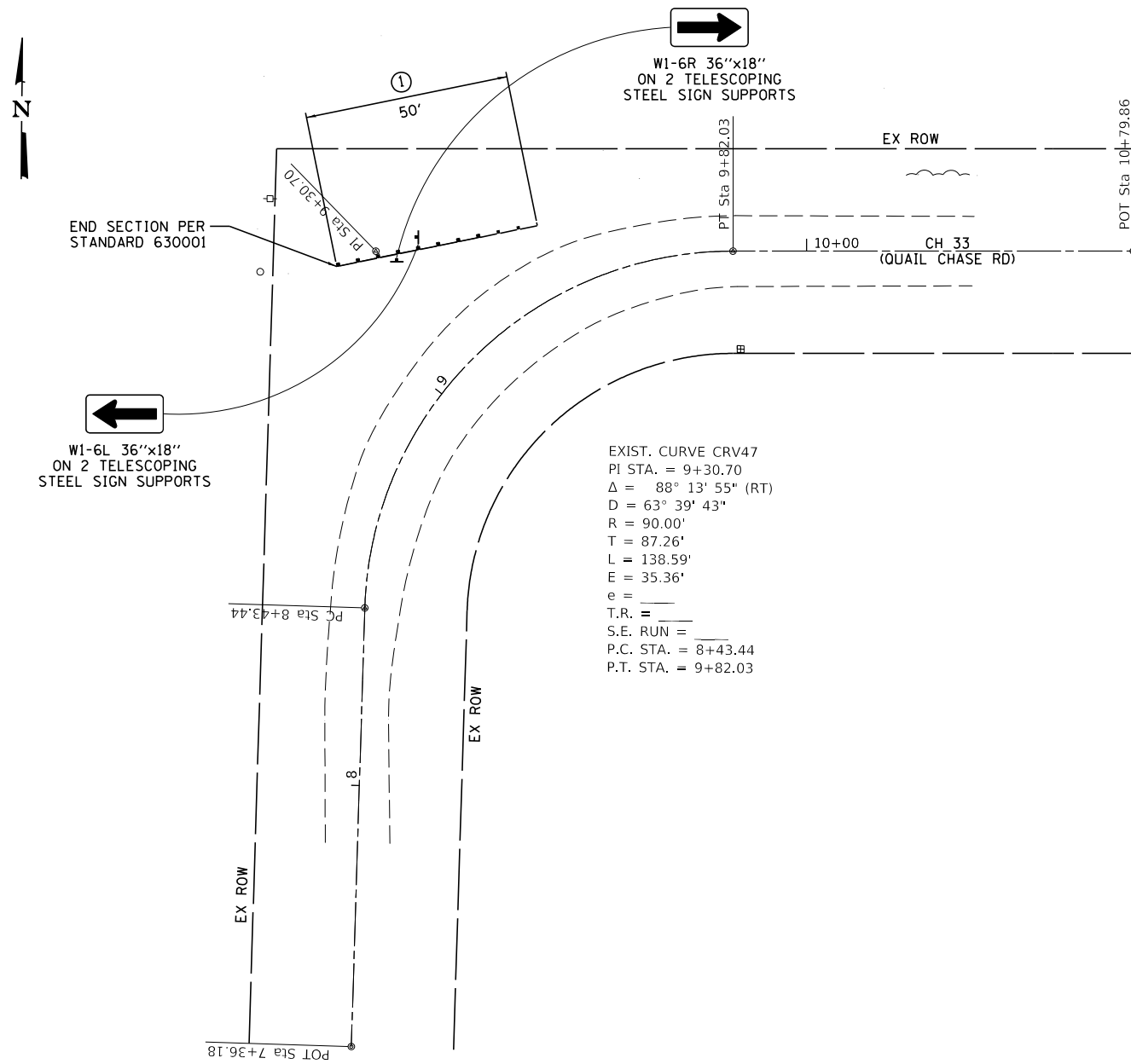
PLAN LOCATION 45

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	37
CONTRACT NO. 93723				
		ILLINOIS	FED. AID PROJECT	

LEGEND

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT



SEC 29, T11N, R9W, 3RD PM

CH 33			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+36.18	983580.91	2311656.86
PC	8+43.44	983688.14	2311659.29
PI	9+30.70	983775.38	2311661.27
PT	8+82.03	983776.10	2311748.53
PT	10+79.86	983776.90	2311846.35

LOCATION NO. 47
 LOCAL ROADS
 ADT 50
 DESIGN SPEED 30 MPH

MODEL Default
 FILE NAME: 24641_16-0100-00-GR-16-0100-00-GR.dgn

CEC Cummins
 Engineering
 Corporation
 Civil and Structural Engineering

JOB = 2464.1
 FILE NAME = 2464.1-ahp-plan47.dgn
 PLOT SCALE = 40,000' / in.
 PLOT DATE = 1/15/2019

DESIGNED - CGF
 DRAWN - SJS
 CHECKED - NAK
 DATE - 7/09/2018

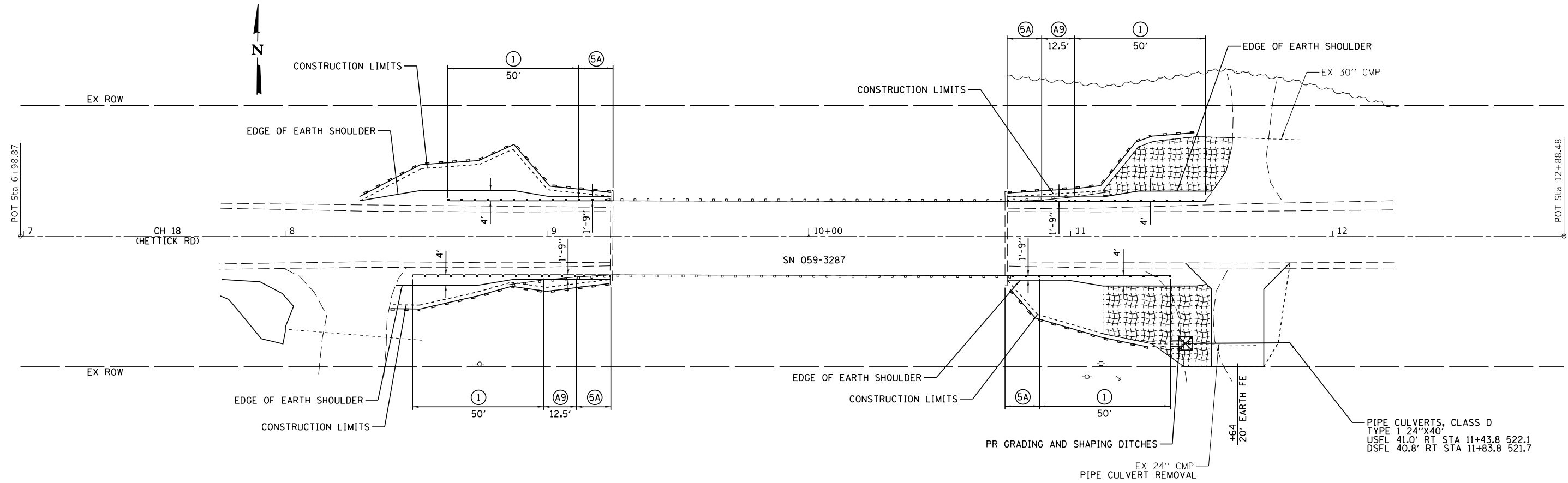
REVISED -
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 REVISED -
 REVISED -

MACOUPIN COUNTY
 GUARDRAIL IMPROVEMENTS

PLAN LOCATION 47

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-0100-00-GR	MACOUPIN	51	38
CONTRACT NO. 93723				
ILLINOIS		FED. AID PROJECT		



CH 18

CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+98.87	976080.19	2336130.35
POT	10+00.00	976083.82	2336431.46
POT	12+88.48	976087.30	2336719.91

LEGEND

(A9)	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
(1)	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
(5A)	TRAFFIC BARRIER TERMINAL, TYPE 5A
☒	INLET AND PIPE PROTECTION
—	PERIMETER EROSION BARRIER
[Hatched Box]	EROSION CONTROL BLANKET

ATTACH BARRIER WALL REFLECTORS, TYPE C TO TOP OF EXISTING STEEL BRIDGE RAIL.

LOCATION NO. 48
MINOR COLLECTOR
ADT 300
DESIGN SPEED 40 MPH

MODEL: \$MODELNAME\$
FILE NAME: \$FILES\$

CEC Cummins
Engineering
Corporation
Civil and Structural Engineering

JOB = 2464.1
FILE NAME = \$FILES\$
PLOT SCALE = \$SCALES\$
PLOT DATE = \$DATES\$

DESIGNED - CGF
DRAWN - SJS
CHECKED - NAK
DATE - 7/16/2018

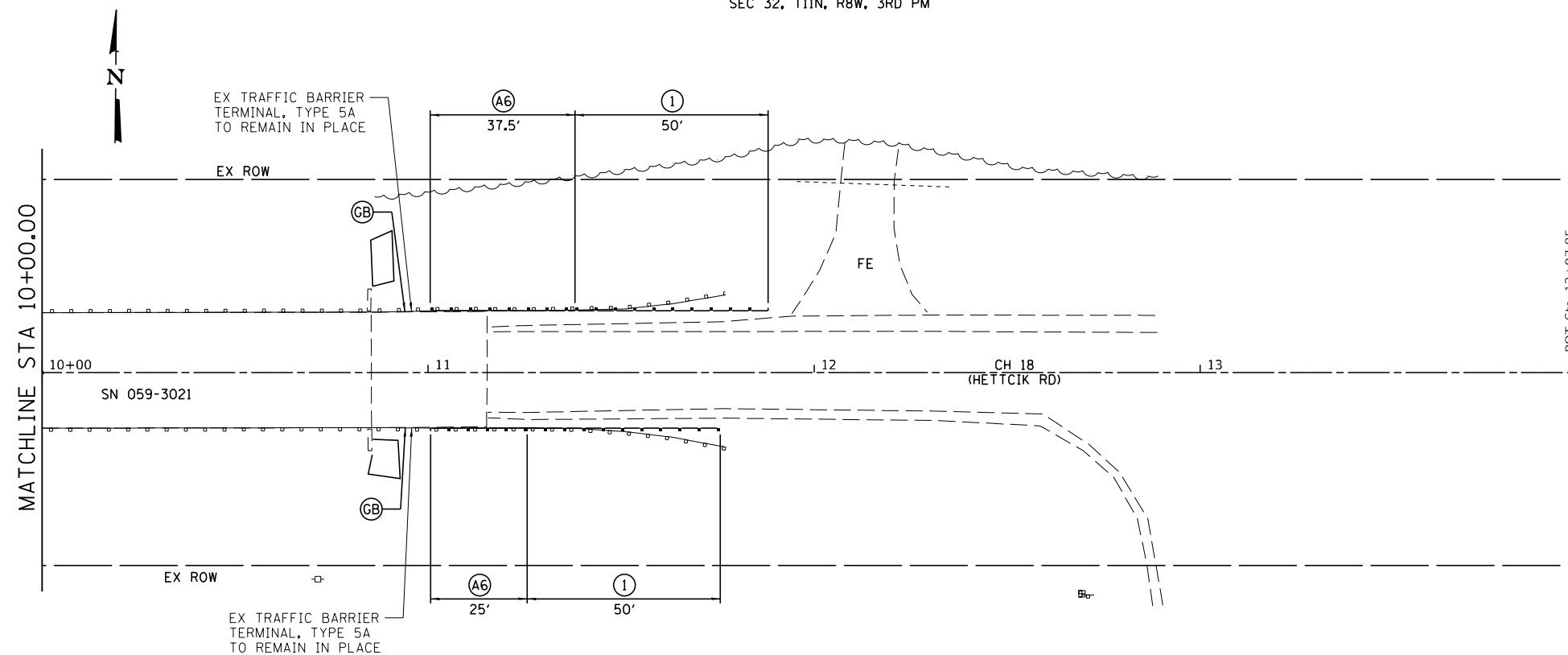
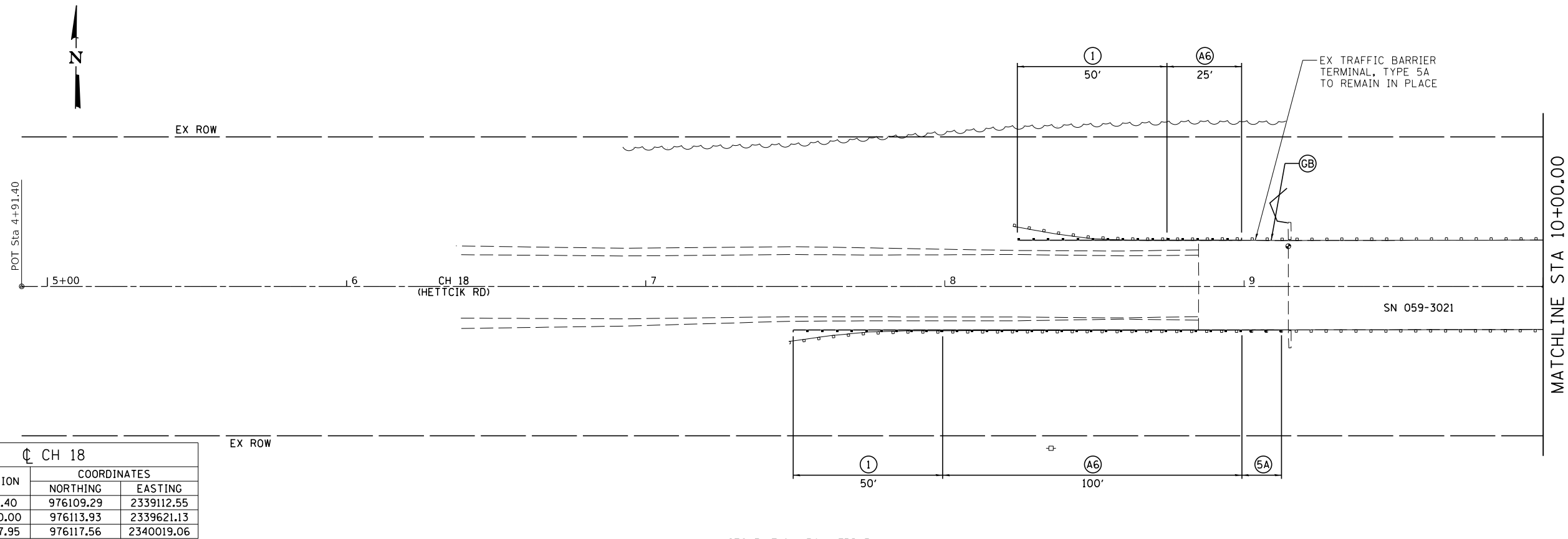
REVISED -
REVISED -
REVISED -
REVISED -

**MACOUPIN COUNTY
GUARDRAIL IMPROVEMENTS**

PLAN LOCATION 48

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	39
CONTRACT NO. 93723				
ILLINOIS FED. AID PROJECT				



- LEGEND**
- (A6) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
 - (5A) TRAFFIC BARRIER TERMINAL, TYPE 5A
 - (1) TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
 - (GB) GUARDRAIL BLOCKS

ATTACH BARRIER WALL REFLECTORS, TYPE C TO TOP OF EXISTING STEEL BRIDGE RAIL.

LOCATION NO. 49
MINOR COLLECTOR
ADT 300
DESIGN SPEED 40 MPH

MODEL: Default
FILE NAME: 2464.1-2464.1-Macoupin-Guardrail-FE1 & PE1-CADD-Sheets-2464.1-16-11-2019.dgn



JOB = 2464.1
FILE NAME = 2464.1-2464.1-Macoupin-Guardrail-FE1 & PE1-CADD-Sheets-2464.1-16-11-2019.dgn
PLOT SCALE = 40,000' / 1" = 1" = 40,000'
PLOT DATE = 3/6/2019

DESIGNED - CGF
DRAWN - SJS
CHECKED - NAK
DATE - 7/03/2018

REVISED -
REVISED -
REVISED -
REVISED -

**MACOUPIN COUNTY
GUARDRAIL IMPROVEMENTS**

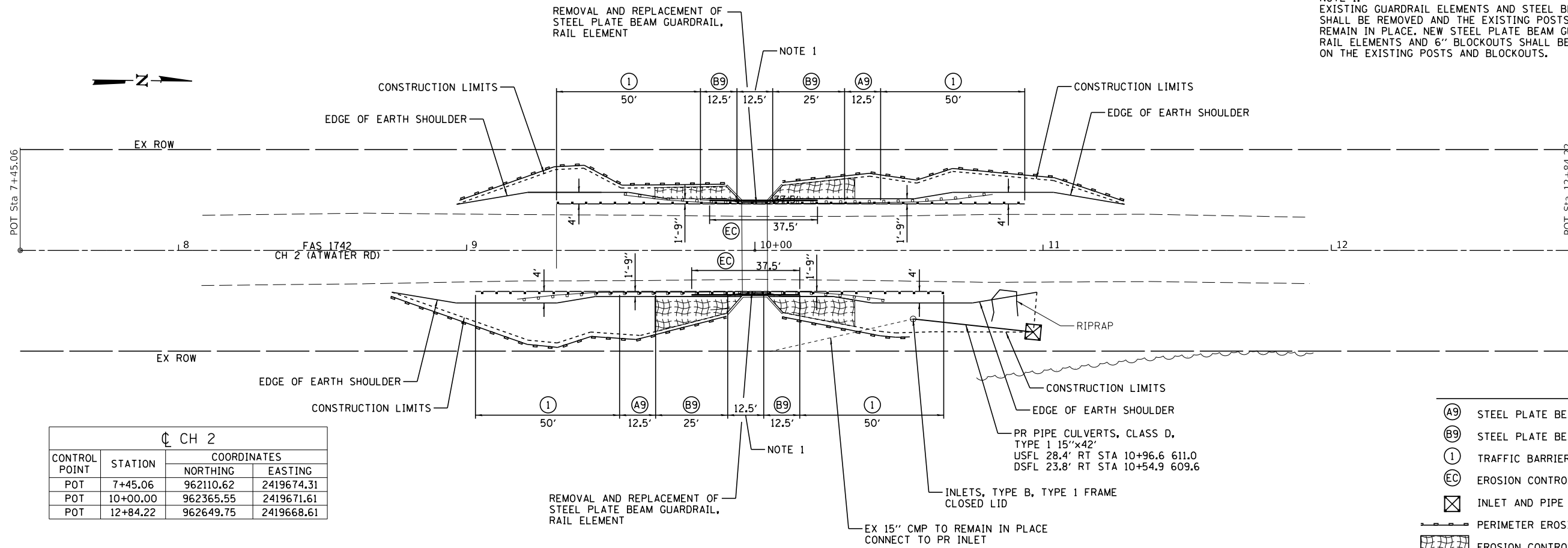
PLAN LOCATION 49

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	40
CONTRACT NO. 93723				
		ILLINOIS	FED. AID PROJECT	

SEC 23, T10N, R6W, 3RD PM

NOTE 1:
EXISTING GUARDRAIL ELEMENTS AND STEEL BLOCKOUTS SHALL BE REMOVED AND THE EXISTING POSTS SHALL REMAIN IN PLACE. NEW STEEL PLATE BEAM GUARDRAIL, RAIL ELEMENTS AND 6" BLOCKOUTS SHALL BE INSTALLED ON THE EXISTING POSTS AND BLOCKOUTS.



CH 2			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+45.06	962110.62	2419674.31
POT	10+00.00	962365.55	2419671.61
POT	12+84.22	962649.75	2419668.61

LEGEND	
(A9)	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
(B9)	STEEL PLATE BEAM GUARDRAIL, TYPE B, 9 FOOT POSTS
(1)	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
(EC)	EROSION CONTROL CURB
⊗	INLET AND PIPE PROTECTION
▬	PERIMETER EROSION BARRIER
▨	EROSION CONTROL BLANKET

REMOVAL OF EXISTING 2X12 TIMBERS ATTACHED TO GUARDRAIL POSTS AT CULVERT SHALL BE INCLUDED IN THE COST FOR GUARDRAIL REMOVAL.
LT 35'
RT 35'

SEC 36, T11N, R7W, 3RD PM

LOCATION NO. 52
MINOR COLLECTOR
ADT 275
DESIGN SPEED 40 MPH

MODEL: Default
FILE NAME: 24641_16032464_1_Macoupin_Guardrail_Plan52.dgn



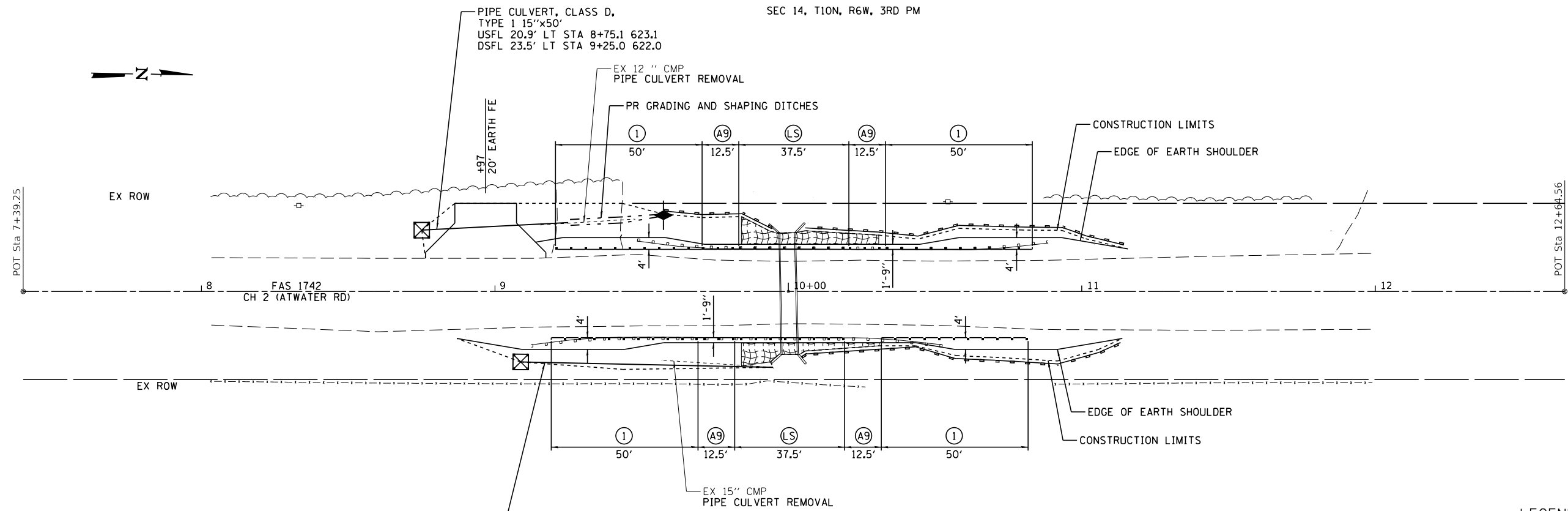
JOB = 2464.1	DESIGNED - CGF	REVISED -
FILE NAME = 2464.1-ahk-plan52.dgn	DRAWN - SJS	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - NAK	REVISED -
PLOT DATE = 1/15/2019	DATE - 7/03/2018	REVISED -

**MACOUPIN COUNTY
GUARDRAIL IMPROVEMENTS**

PLAN LOCATION 52

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	41
			CONTRACT NO. 93723	
		ILLINOIS	FED. AID PROJECT	



PR PIPE CULVERTS, CLASS D,
TYPE 1 15'x86'
USFL 24.0' RT STA 9+08.8 622.1
DSFL 25.9' RT STA 9+94.8 617.8

CH 2			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+39.25	964333.98	2419638.11
POT	10+00.00	964594.69	2419633.68
POT	12+64.56	964859.21	2419629.19

LEGEND

	STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
	LONG-SPAN GUARDRAIL OVER CULVERT, 12'-6" SPAN
	INLET AND PIPE PROTECTION
	TEMPORARY DITCH CHECKS
	PERIMETER EROSION BARRIER
	EROSION CONTROL BLANKET

LOCATION NO. 53
MINOR COLLECTOR
ADT 200
DESIGN SPEED 40 MPH

MODEL Default
FILE NAME: 2464.1 - Macoupin Guardrail FE1 & PE1 (CADD) Sheets 2464.1 - ch2plan53.dgn



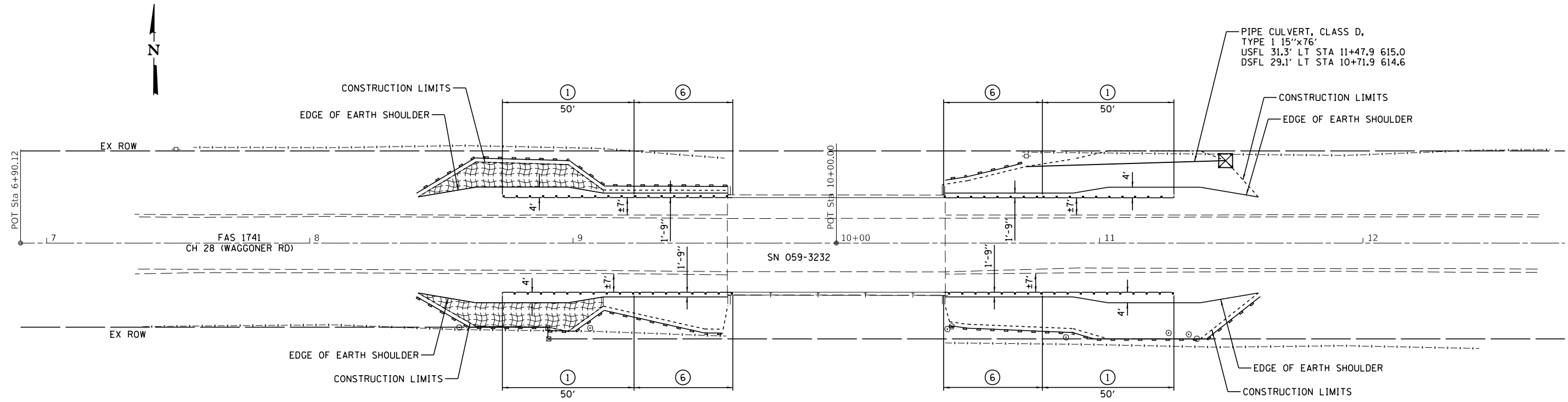
JOB = 2464.1	DESIGNED - CGF	REVISED -
FILE NAME = 2464.1 - ch2plan53.dgn	DRAWN - SJS	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - NAK	REVISED -
PLOT DATE = 1/15/2019	DATE - 7/03/2018	REVISED -

**MACOUPIN COUNTY
GUARDRAIL IMPROVEMENTS**

PLAN LOCATION 53

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	42
CONTRACT NO. 93723				
		ILLINOIS	FED. AID PROJECT	



LEGEND

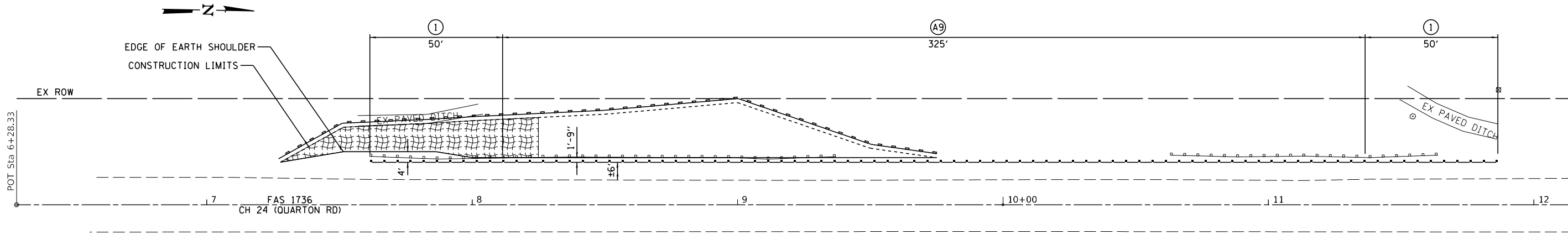
- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ⑥ TRAFFIC BARRIER TERMINAL, TYPE 6
- ☒ INLET AND PIPE PROTECTION
- ▬ PERIMETER EROSION BARRIER
- ▨ EROSION CONTROL BLANKET

CH 28			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+90.12	992539.27	2411897.96
POT	10+00.00	992541.23	2412207.83
POT	13+10.50	992543.20	2412518.33

ATTACH BARRIER WALL REFLECTORS, TYPE C TO TOP AND FACE OF EXISTING CONCRETE BRIDGE RAIL.

LOCATION NO. 55
MAJOR COLLECTOR
ADT 150
DESIGN SPEED 40 MPH

MODEL: Default
FILE NAME: 2464.1-2464.1-Macoupin-Guardrail-FE1 & PE1-CADD-Sheets2464.1-16-12-2019.dgn

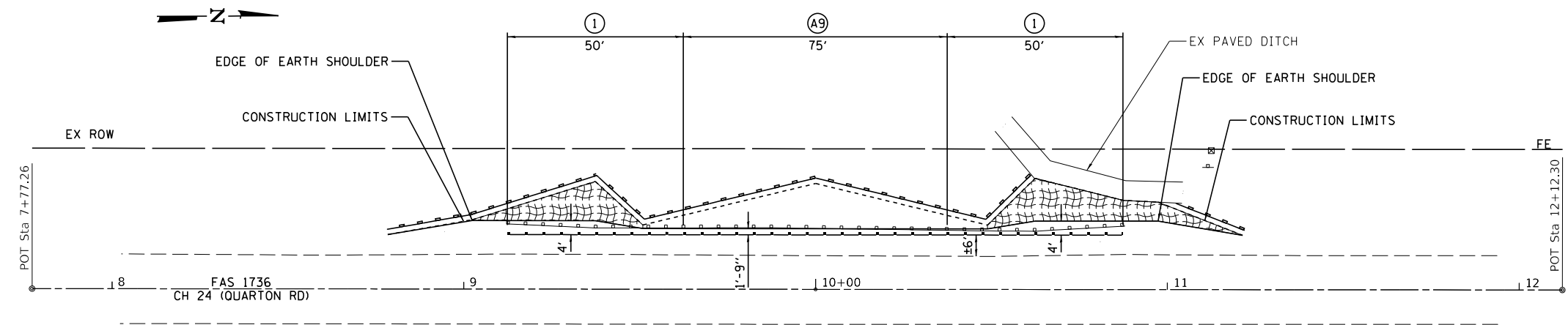


CH 24			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	6+28.33	990876.74	2368873.92
POT	10+00.00	991248.34	2368867.10
POT	12+97.30	991545.60	2368861.65

LEGEND

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

LOCATION NO. 59
MINOR COLLECTOR
ADT 425
DESIGN SPEED 50 MPH



CH 24			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+77.26	989924.04	2368875.34
POT	10+00.00	990146.78	2368876.46
POT	12+12.30	990359.08	2368877.53

LOCATION NO. 58
MINOR COLLECTOR
ADT 425
DESIGN SPEED 50 MPH

MODEL: Default
FILE NAME: 1023064.1_Macoupin_Guardrail_FEI & PEI_CADD_Sheets2464_1-10-2018.dgn



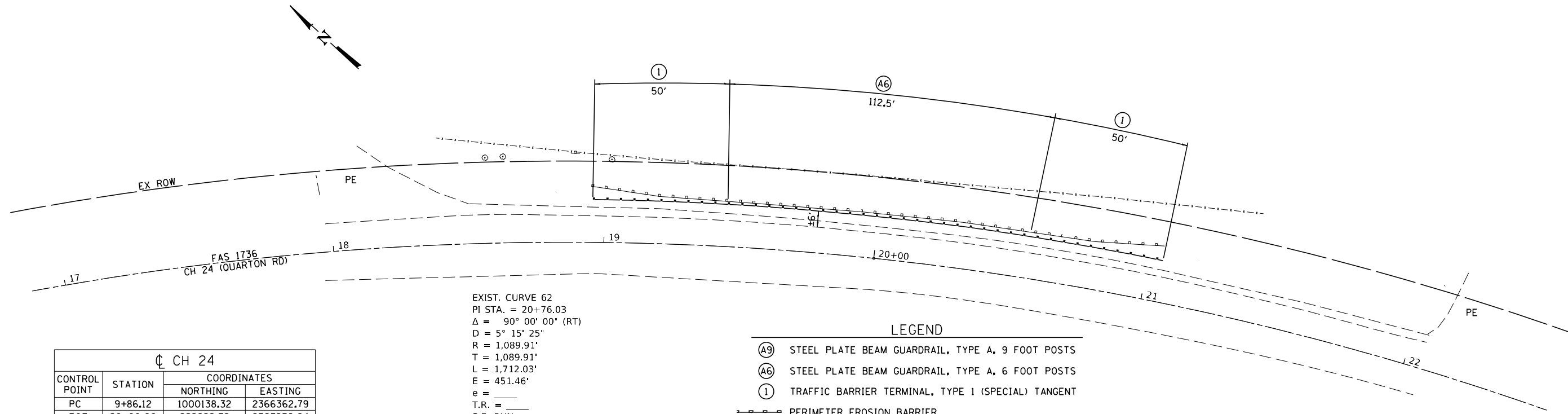
JOB = 2464.1	DESIGNED - CGF	REVISED -
FILE NAME = 2464.1-shl-plan58_59.dgn	DRAWN - SJS	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED - NAK	REVISED -
PLOT DATE = 1/15/2019	DATE - 7/10/2018	REVISED -

**MACOUPIN COUNTY
GUARDRAIL IMPROVEMENTS**

PLAN LOCATIONS 58 & 59

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	44
CONTRACT NO. 93723				
		ILLINOIS	FED. AID PROJECT	



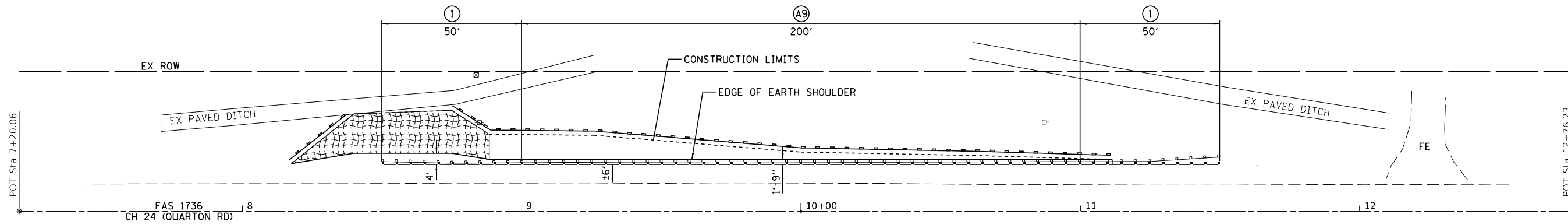
CH 24			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
PC	9+86.12	1000138.32	2366362.79
POT	20+00.00	999699.79	2367236.64
PI	20+76.03	1000138.32	2367452.71
PT	26+98.15	999048.41	2367452.71

EXIST. CURVE 62
 PI STA. = 20+76.03
 $\Delta = 90^\circ 00' 00''$ (RT)
 $D = 5^\circ 15' 25''$
 $R = 1,089.91'$
 $T = 1,089.91'$
 $L = 1,712.03'$
 $E = 451.46'$
 $e =$
 $T.R. =$
 $S.E. RUN =$
 $P.C. STA. = 9+86.12$
 $P.T. STA. = 26+98.15$

LEGEND

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

LOCATION NO. 62
 MINOR COLLECTOR
 ADT 425
 DESIGN SPEED 50 MPH



CH 24			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+20.06	992286.23	2368844.42
POT	10+00.00	992566.13	2368839.43
POT	12+76.23	992842.31	2368834.52

LOCATION NO. 60
 MINOR COLLECTOR
 ADT 425
 DESIGN SPEED 50 MPH

MACOUPIN COUNTY
 GUARDRAIL IMPROVEMENTS

PLAN LOCATIONS 60 & 62



JOB = 2464.1
 FILE NAME = 2464.1-shl-plan60_62.dgn
 PLOT SCALE = 40,0000"/in.
 PLOT DATE = 1/15/2019

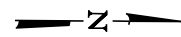
DESIGNED - CGF
 DRAWN - SJS
 CHECKED - NAK
 DATE - 7/10/2018

REVISED -
 REVISED -
 REVISED -
 REVISED -

SCALE: SHEET OF SHEETS STA. TO STA.

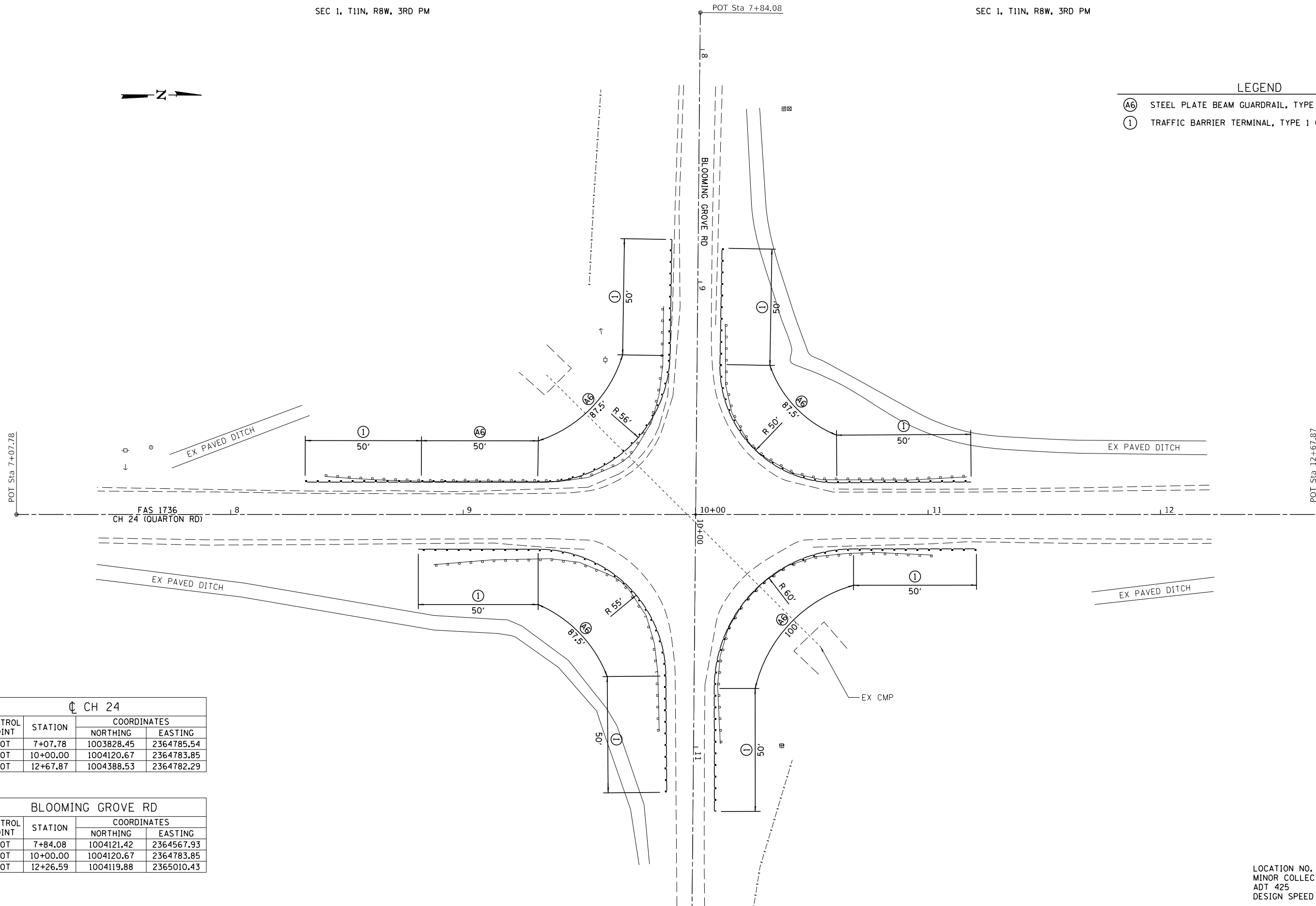
ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	45
CONTRACT NO. 93723				
		ILLINOIS	FED. AID PROJECT	

MODEL: Default
 FILE NAME: 2464.1-shl-plan60_62.dgn
 MODEL: Default
 FILE NAME: 2464.1-shl-plan60_62.dgn



LEGEND

- (A6) STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- (1) TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT



CH 24			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+07.78	1003828.45	2364785.54
POT	10+00.00	1004120.67	2364783.85
POT	12+67.87	1004388.53	2364782.29

BLOOMING GROVE RD			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+84.08	1004121.42	2364567.93
POT	10+00.00	1004120.67	2364783.85
POT	12+26.59	1004119.88	2365010.43

LOCATION NO. 63
MINOR COLLECTOR
ADT 425
DESIGN SPEED 50 MPH

MODEL: Default
FILE NAME: 2464.1 - Macoupin Guardrail FE1 & PE1.dwg
PLOT DATE: 1/15/2019



JOB = 2464.1
FILE NAME = 2464.1-shh-plan63.dwg
PLOT SCALE = 40,000' / 1 in.
PLOT DATE = 1/15/2019

DESIGNED - CGF
DRAWN - SJS
CHECKED - NAK
DATE - 7/12/2018

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REVISED -
REVISED -
REVISED -

MACOUPIN COUNTY
GUARDRAIL IMPROVEMENTS

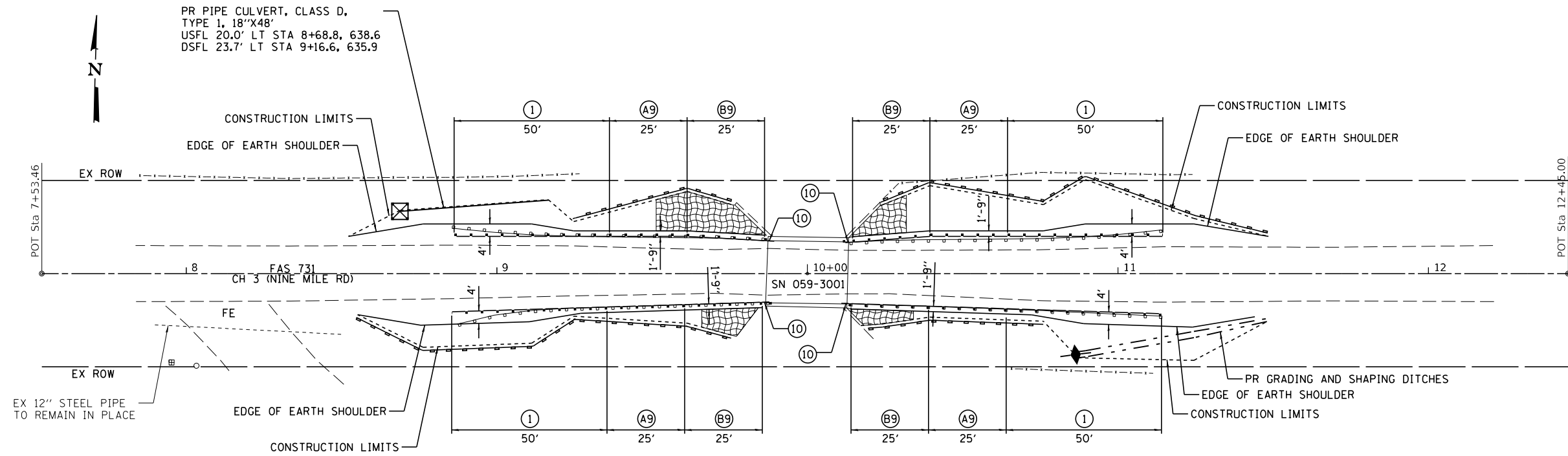
PLAN LOCATION 63

SCALE: SHEET OF SHEETS STA. TO STA.

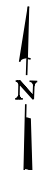
ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	46
CONTRACT NO. 93723				
		ILLINOIS	FED. AID PROJECT	

LEGEND

- ① TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- Ⓑ6 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- Ⓐ9 STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS
- Ⓑ9 STEEL PLATE BEAM GUARDRAIL, TYPE B, 9 FOOT POSTS
- ⑩ TRAFFIC BARRIER TERMINAL, TYPE 10
- ⊠ INLET AND PIPE PROTECTION
- ◆ TEMPORARY DITCH CHECKS
- PERIMETER EROSION BARRIER
- ▨ EROSION CONTROL BLANKET



PR PIPE CULVERT, CLASS D,
TYPE 1, 18\"/>



CH 3			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	7+53.46	1025288.65	2363405.96
POT	10+00.00	1025294.73	2363652.43
POT	12+45.00	1025300.78	2363897.34

ATTACH BARRIER WALL REFLECTORS, TYPE C
TO TOP OF EXISTING CONCRETE BRIDGE RAIL.

LOCATION NO. 67
MAJOR COLLECTOR
ADT 250
DESIGN SPEED 40 MPH

MODEL: Default
FILE NAME: 24641_16-00100-00-GR
C:\Users\jordan\OneDrive\Documents\24641_16-00100-00-GR.dgn



JOB = 24641
FILE NAME = 24641_16-00100-00-GR.dgn
PLOT SCALE = 40,000' / 1 in.
PLOT DATE = 1/15/2019

DESIGNED - CGF
DRAWN - SJS
CHECKED - NAK
DATE - 7/03/2018

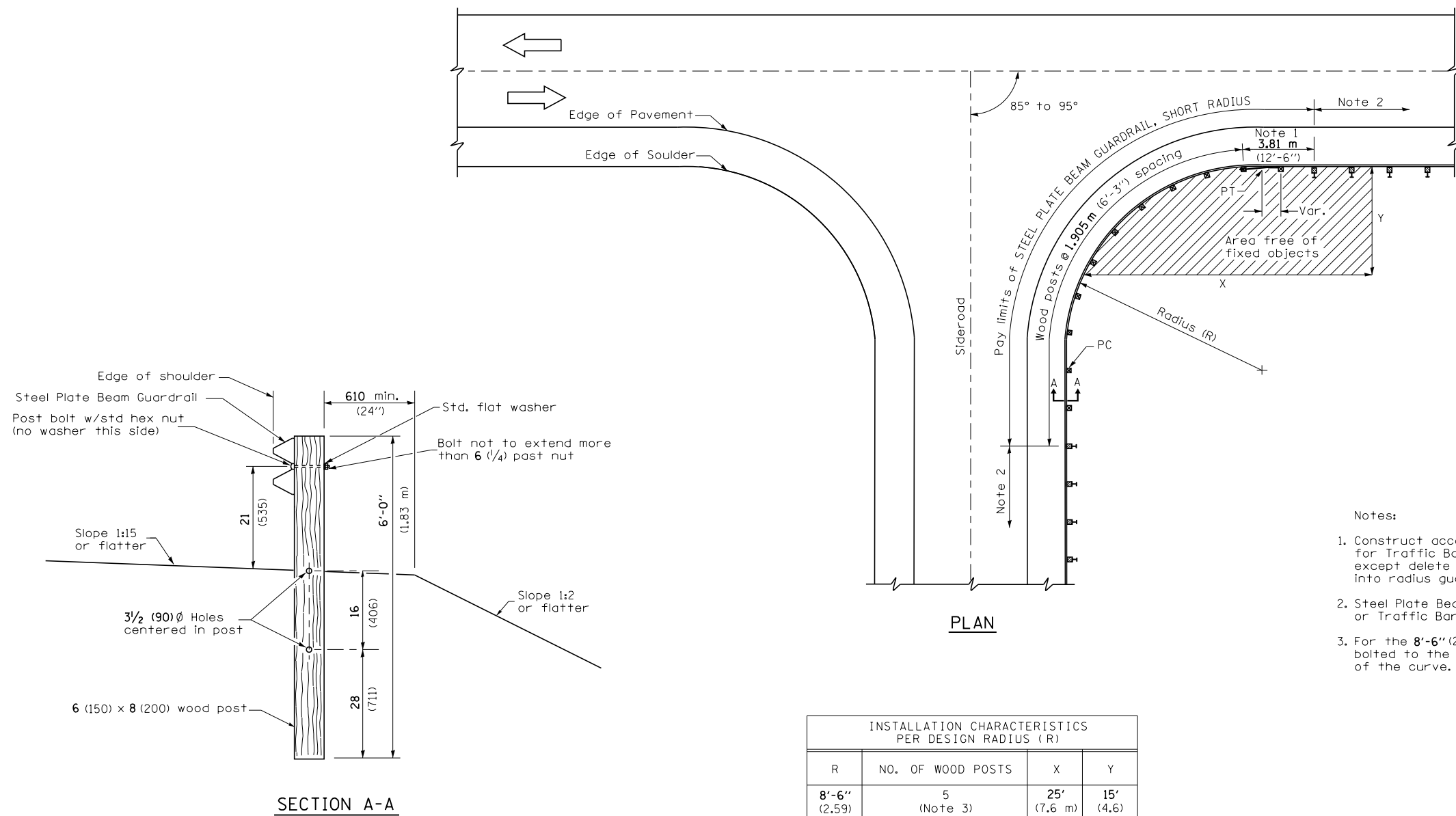
REVISED -
REVISED -
REVISED -
REVISED -

MACOUPIN COUNTY
GUARDRAIL IMPROVEMENTS

PLAN LOCATIONS 67

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	49
CONTRACT NO. 93723				
		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.

MODEL: Default
FILE NAME: 2461.1-guardrail_short_radius.dgn
PROJECT: 2461.1-Macoupin-Guardrail-FE1 & PE1-CADD-Sheets-2461.1-guardrail_short_radius.dgn



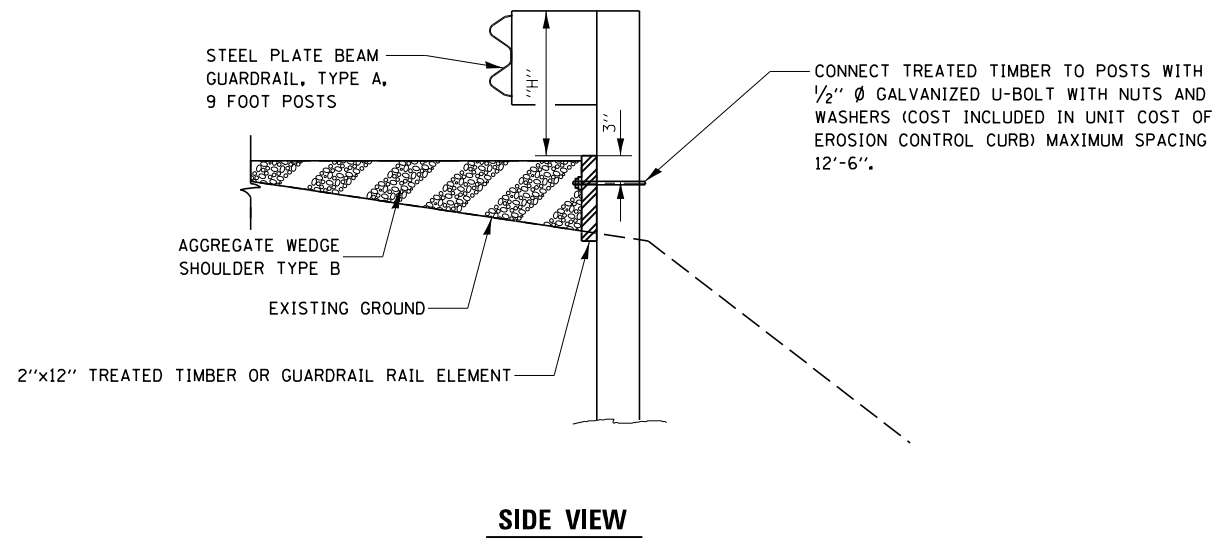
JOB = 2464.1	DESIGNED - NAK	REVISED -
FILE NAME = 2461.1-guardrail_short_radius.dgn	DRAWN - SJS	REVISED -
PLOT SCALE = 400:000 " = 1 in.	CHECKED - NAK	REVISED -
PLOT DATE = 1/15/2019	DATE - 6/18/2018	REVISED -

MACOUPIN COUNTY GUARDRAIL IMPROVEMENTS

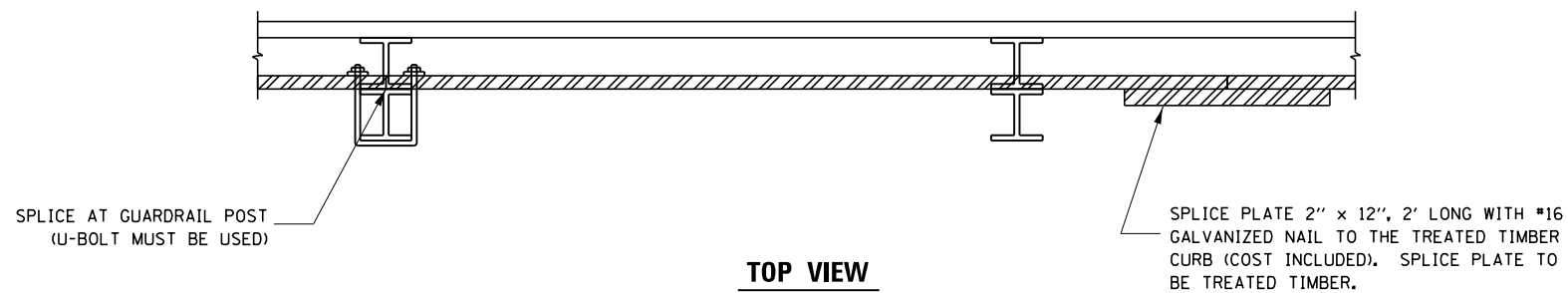
STEEL PLATE BEAM GUARDRAIL, SHORT RADIUS

SCALE: SHEET OF SHEETS STA. TO STA.

ROUTE VARIOUS	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	16-00100-00-GR	MACOUPIN	51	50
CONTRACT NO. 93723				
		ILLINOIS	FED. AID PROJECT	



52	RT STA	"H"	LT STA	"H"
	9+78.05	2.78'	9+84.26	2.65'
	9+90.30	2.78'	9+90.30	2.65'
	10+00.00	2.68'	10+00.00	2.60'
	10+09.67	2.78'	10+09.67	2.65'
	10+15.55	2.78'	10+21.76	2.65'



NOTE:
TREATED TIMBER SHALL BUTT TOGETHER AT THE GUARDRAIL POST OR SPLICED AS SHOWN ON THE DETAIL.

ANY SALVAGED RAIL ELEMENTS AND POSTS THAT WERE NOT DAMAGED BY THE CONTRACTOR DURING THE REMOVAL MAY BE USED IN LIEU OF TREATED TIMBER.

STEEL PLATE BEAM GUARDRAIL RAIL ELEMENT USED FOR EROSION CONTROL CURB, INCLUDING ALL HARDWARE, SHALL BE IN ACCORDANCE WITH ARTICLES 1006.23 AND 1006.25 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION MANUAL.

ALL SECTIONS OF GUARDRAIL SHALL BE BOLTED TOGETHER AND ALL RAIL ELEMENTS SHALL BE BOLTED TO THE POSTS. HARDWARE WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF THE EROSION CONTROL CURB.

THE PRICE FOR EROSION CONTROL CURB SHALL INCLUDE THE BOLTS ATTACHING THE TREATED TIMBER OR GUARDRAIL ELEMENTS TO THE GUARDRAIL POSTS, DRILLING THE POSTS, AND THE NECESSARY GRADING TO COMPLETE THIS WORK.

THE EROSION CONTROL CURB SHALL BE MEASURED AND PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR EROSION CONTROL CURB.