## INDEX OF SHEETS

- 1 COVER SHEET
- 2 SUMMARY OF QUANTITIES, GENERAL NOTES, LOCATION DESCRIPTIONS
- 3 GUARDRAIL SCHEDULE
- 4 LOCATION 5 DETAILS
- 5 LOCATION 6 DETAILS
- 6 LOCATION 7 DETAILS
- 7 LOCATION 10 DETAILS
- 8 LOCATION 11 DETAILS
- 9 LOCATION 12 DETAILS
- **10-14 CROSS SECTIONS**

### STANDARDS

830111, Weak Post guardrail Attached to Culvert 630301-08, Shidr Wid for TY 1 SPL Guardrail Term

631011-10, Traffic Barrier Terminal Type 2 701006-05, Off Road Operations 701306-04, Ln. Closure, 2L, 2W, Slow Moving 701901-07, Traffic Ctrl. Devices 725001-01, Object and Terminal Markers B.L.R. 23-4, Traffic Barrier Terminal Type 1 B.L.R. 26-3, Steel Plate Beam Guardrail 29" Height

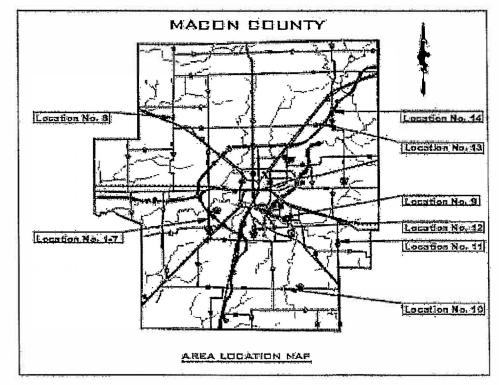
	ADT
CH-10 at Wyckles Road	650
CH-20 over I-72	660
CH-21 at Heman Road	400
CH-25 over I-72	1000
CH-28 just west of Wyckles Road	1200
CH-32 just east of Kraft Road	1000
CH-41 from Cantrell to south of CH-28	1000
CH-50 just east of Lake Bluff Drive	3050
CH-57 north of Sefton Road	2350
CH-61 just north of Mt. Gllead Rd.	1600

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS** 

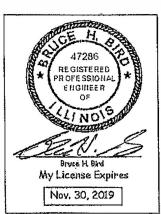
# PLANS FOR THE PROPOSED **IMPROVEMENT OF FEDERAL AID** SECONDARY ROUTE **HSIP FUNDS**

SECTION # 16-00282-00-GR JOB # C-97-008-19 PROJECT # WZM5(680) CONTRACT # 95832

**GUARDRAIL UPGRADE PROJECT MACON COUNTY, ILLINOIS** 



TOTAL LENGTH = 5900 FEET NET LENGTH = 4850 FEET

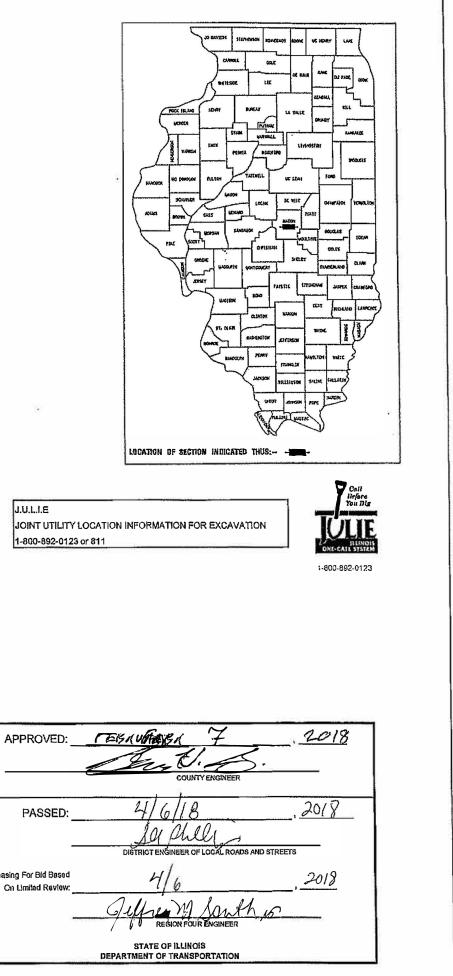


J.U.L.I.E

AFFINUVED.
PASSED:
Releasing For Bld Based Cn Limited Review







### SUMMARY OF QUANTITIES

PAY ITEM #	DESCRIPTION	UNITS	TOTAL
20400800	FURNISHED EXCAVATION	CU YD	514
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.3
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	6
542D1069	PIPE CULVERTS, CLASS D, TYPE 2 24"	FOOT	16
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	3562.5
63000054	WEAK POST GUARDRAIL ATTACHED TO CULVERT CASE V	FOOT	125
63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	19
63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	18
63200310	GUARDRAIL REMOVAL	FOOT	4646
67100100	MOBILIZATION	LSUM	1
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	LSUM	1
72501000	TERMINAL MARKER-DIRECT APPLIED	EACH	21_
LR631020	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	3

#### LOCATION DESCRIPTIONS

- 1. CH-10 @ Wyckles Road, Length 75', Remove turndown terminals and install Type 1 SPL Terminal with Terminal Marker, and a Type 2 Terminal. Furnished Excavation for Type 1 Termina
- 2. CH-28 0.1 miles west of Wyckles Road, Length 200', Remove turndown terminals and install Type 2 and Type 1 SPL Terminals with Markers, Furnished Excavation for Type 1 Terminals.
- 3. CH-41 Wyckles Road 0.1 miles north of CH-28, Length 75', Remove turndown terminals and install Type 2 and Type 1 SPL terminals with Markers. Furnished Excavation for Type 1 Terminals.
- 4. CH-41 Wyckles Road at Hartung Road, Length 300', Remove turndown terminals and the guardrail along Hartung Road, and install Type 2 and Type 1 SPL terminals with Terminal Markers and Furnished Excavation.
- 5. CH-41 Wyckles Road 0.1 miles north of W. Rock Springs Road, Length 150', Remove turndown terminals and Install Type 2 and Type 1 SPL Terminals with Markers. Install SPBGR with 8' Radius for opening in rail. Furnished Excavation for Type 1 Terminals.
- 6. CH-41 Wyckles Road 0.1 miles south of CH-28, Length 600', Remove guardrall on both sides and install new SPBGR and new Type 2 and Type 1 SPL Terminals with Terminal Markers. Furnished Excavation for Type 1 Terminals.
- 7. CH-41 Wyckles Road at the Sangamon River, Length 2200', Remove guardrail on both sides leaving the Type 6 terminals attached to the structure. Install new SPBGR and new Type 2 and Type 1 SPL Terminals. Furnished Excavation for Type 1 Terminals
- 8. CH-21 Kenney Road at Heman Road, Length 50', Remove existing terminal and install a new Type 1 SPL Terminal.
- 9. CH-50 Lost Bridge Road Just east of Lake Bluff Road, Length 200', Remove existing guardrail and place new SPBGR with Type 2 and Type 1 Traffic Barrier Terminals.
- 10. CH-32 Andrews Street just east of Karl Road, Length 400', Remove existing guardrail and place new SPBGR Attached to Culvert with Type 2 and Type 1 SPL Terminals with Markers. Extend Pipe Culvert and place Furnished Excavation for field entrance. Furnished Excavation for Type 1 Terminals
- 11, CH-57 B5th Street north of Sefton Road, Length 250', Remove existing guardrail and place new SPBGR Attached to Culvert and Type 2 and Type 1 SPL Terminals with Markers. Furnished Excavation for Type 1 Terminal
- 12. CH-61 Franklin Street just north of Mt. Gliead Road, Length 150', Remove existing guardrall, and install new SPBGR with Type 2 and Type 1 SPL Terminals with Markers,
- 13. CH-20 over 1-72, Length 100', Remove 3 turndown terminals and install new Type 2 and Type 1 SPL Terminals with Terminal Markers. Furnished Excavation for Type 1 Terminals.
- 14. CH-25 over I-72, Length 100', Remove 2 turndown terminals and install new Type 1 Terminals with Markers. Furnished Excavation for Type 1 Terminals.

- AS DIRECTED BY THE ENGINEER, AT THE CONTRACTOR'S EXPENSE.
- 2: ACCESS TO ALL ENTRANCES SHALL BE MAINTAINED AT ALL TIMES.

- COMPENSATION WILL BE ALLOWED.
- BID FOR THE WORK.
- STANDARDS INCLUDED IN THESE PLANS.
- MONUMENTS DESTROYED BY HIS OPERATIONS.
- 9. DRAWINGS AND DETAILS ARE ASSUMED NOT TO SCALE UNLESS OTHERWISE NOTED.
- OUTLINED IN ARTICLE 107.31 OF THE STANDARD SPECIFICATION.
- MADE BY THE UTILITY COMPANIES UNLESS OTHERWISE NOTED.

G

-

### **GENERAL NOTES**

1. ALL AREAS DISTURBED BY THE CONTRACTOR OUTSIDE THE PROPOSED CONSTRUCTION LIMITS SHALL BE SEEDED

3. BEFORE ORDERING PIPE CULVERTS, PIPE DRAINS, END SECTIONS OR INLETS THE CONTRACTOR SHALL FIELD VERIFY FOR EXACT LENGTHS, SIZES, AND QUANTITIES REQUIRED AND NOTIFY THE ENGINEER OF ANY DISCREPENCIES.

4. ALL DRAINAGE STRUCTURES SHALL BE FREE OF SILT, DEBRIS, OR OTHER SUCH OBSTRUCTIONS AT THE TIME OF FINAL INSPECTION. THE CLEANING OF THESE DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE VARIOUS PAY ITEMS INVOLVED.

5. GRADING SHALL BE DONE BY HAND AROUND LIGHT POLES, UTILITY POLES, SIGN POSTS, SHRUBS, TREES, OR OTHER NATURAL OR MAN-MADE OBJECTS WHERE SHALLOW FILLS OR CUTS ARE ADJACENT TO THE ITEMS. IT IS THE INTENT THAT THE LIMITS OF CONSTRUCTION BE SUCH AS TO PRESERVE IN THE ORIGINAL STATE AS MUCH AREA AS POSSIBLE. THE DECISION AS TO ITEMS TO REMAIN IN PLACE SHALL BE AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATLEY, BUT SHALL BE CONSIDERED INCLUDED IN THE CONTRACT UNIT PRICE PER CUBIC YARD FOR FURNISHED EXCAVATION AND NO ADDITIONAL

6. IN ADDITION TO FIELD SURVEYS AND ARIAL SURVEYS, PLAN DIMENSIONS AND DETAILS RELATIVE TO EXISTING FACILITIES ARE SUBJECT TO CONSTRUCTION VARIATIONS. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY SUCH DIMENSIONS AND DETAILS IN THE FIELD. SUCH VARIATIONS SHALL NOT BE CUASE FOR ADDITIONAL COMPENSATION DUE TO A CHANGE IN THE SCOPE OF WORK. HOWEVER, THE CONTRACTOR WILL BE PAID FOR THE QUANTITY ACTUALLY FURNISHED AT THE UNIT PRICE

7. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BYTHE LIST OF

8. WHERE SECTION OR SUB-SECTION MARKERS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED AGENT OR LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR RE-ESTABLISH ANY SECTION OR SUB-SECTION

10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS

11, ANY DAMAGE TO THE UNDERGROUND FACILITIES CAUSED BY THE CONTRACTOR SHALL BE REPAIRED TO THE SATISFACTION OF THE DEPARTMENT AT THE CONTRACTOR'S EXPENSE. INCLUDING TEMPORARY REPAIRS WHICH MAY RE REQUIRED TO KEEP THE FACILITY OPERATIONAL WHILE MATERIAL IS BEING OBTAINED TO MAKE PERMENANT REPAIRS. UTILITY ADJUSTMENTS SHALL BE

ENERAL NOTES, SUMMARY OF QUANTITIES	SECTION	COUNTY	TOTAL	SHIEET
AND LOCATION DESCRIPTIONS	16-00282 00-GR	MACON	14	2

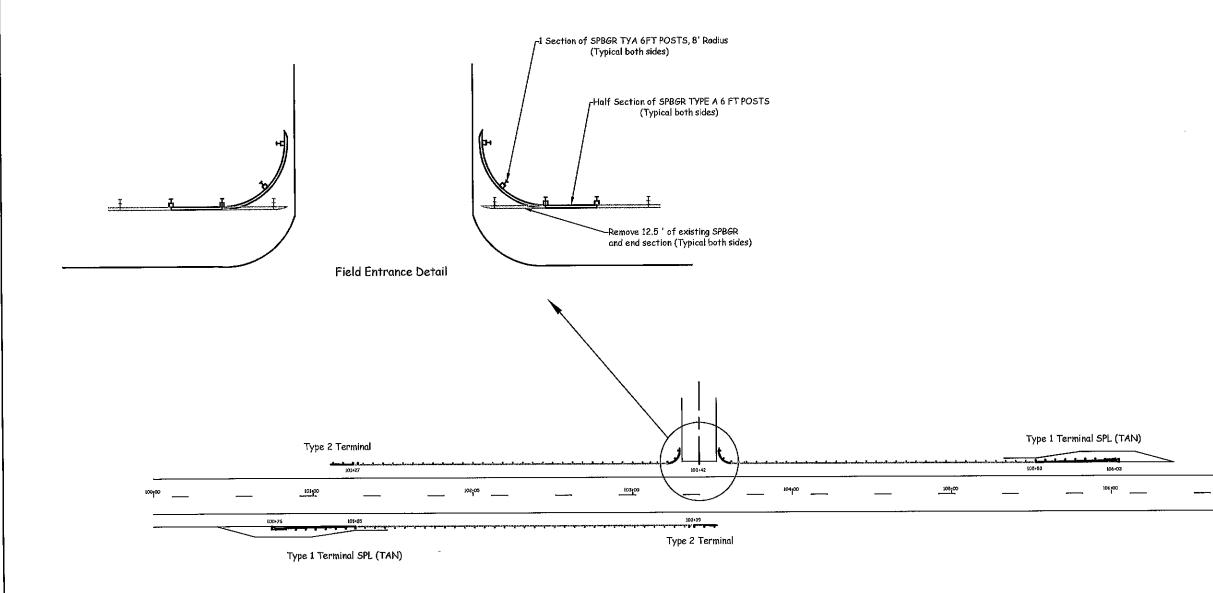
# GUARDRAIL REPAIR SCHEDULE

BY LOCATION

LOCATION		guardrail Removal	TRAFFIC BARRIER TERMINAL TY 1	TERMINAL MARKER DA	SPBGR Attached to Structure	SPBGR TY A 6' POSTS	TRAFFIC BARRIER TERMINAL TY 1 SPECIAL (TANGENT)	TRAFFIC BARRIER TERMINAL TYPE 2	FURNISHED EXCAVATION	SEEDING SPECIAL	PIPE CULVERT CL D TY 2 24"	AGGREGATE SURFACE COURSE TY
			STD BLR 23-4	STD 725001-01	STD 630111	STD BLR 26-3		STD 631011-10	<u> </u>	ACRE	FOOT	TON
		FOOT	EACH	EACH	FOOT	FOOT	EACH	EACH	CU YD	ACRE	FOOT	1014
Location # 1							<u> </u>		13.0	0.020		
CH-10 @	NE QUADRANT	25.0		1.0		25.0	1.0	1.0		0.020		
Wyckles Road	SE QUADRANT	25,0				25.0		1.0				
				4.0			10		32.0	0.020		
Location # 2	NE QUADRANT	37.5		<u>1.0</u> 1.0			<u> </u>		9.0	0.010		
CH-28 0.1 miles west of	NW QUADRANT SE QUADRANT	37.5 25.0	-	1.0		12.5	1,0	1.0	5.0	0.010		
Wyckles road		37,5	+	1.0		12.5	1.0	1.0	10.0	0.010		
Location # 3	SW QUADRANT	57.5	+	1.0			1.0		10.0			
CH-41 Wyckles Rd.	NE QUADRANT	25.0	+	· · ·		12.5		1.0				
.1 miles north of CH-28	NW QUADRANT	25.0		1.0		12.5	1.0		8.0	0.010		
1 miles nor in or cri*26	NW QUADRANT	23.0		1.0	-		110					1
Location # 4	NE QUADRANT	225.0				<u></u>		1.0				
CH-41 Wyckles Rd.	NW QUADRANT	37.5		1.0	1 1		1.0		72.0	0.020		
at Hartung Rd.	SW QUADRANT	25,0		210	-	12.5		1.0				
Location # 5	NE QUADRANT	25.0						1.0				
CH-41 Wyckles Rd.	NW OPENING ****	25.0				37.5				·		
0.1 miles north of	NW QUADRANT	25.0		1.0		_ · · ·	1.0		27.0	0.020		
/est Rock Springs Road	SE QUADRANT	25.0		1.0			1.0		35.0	0.030		
SEE DETAIL	SW QUADRANT	25.0				12.5		1.0				
Location # 6												
CH-41 Wyckles Rd.	EAST SIDE	450.0		1.0		387.5	1.0	1.0	37.0	0.020		
1 miles south of CH-28	WEST SIDE	375.0		1.0		312.5	1.0	1.0	97.0	0.030		
SEE DETAIL												
Location # 7	NE QUADRANT	546.0				537.5		1.0				
CH-41 Wyckles Rd.	NW QUADRANT *	609.0				612.5						
at the	SE QUADRANT **	45.0				50.0						_
Sangamon River	SE QUADRANT ***	700.0		1.0		662.5	1.0		3.0	0.010		
SEE DETAIL	SW QUADRANT	532.0				512.5		1.0				
Location # 8												
CH-21 Kenney Rd.												··· ···
at	SE QUADRANT	39.0	44	1.0			1.0					
Heman Road												
Location # 9			1 1									
H-50 Lost Bridge Road	SOUTH SIDE	200.0	1.0	1.0		187.5		1.0				
Just east of												
Lake Biuff Drive					_							
Location # 10		50.0			27.5		1.0	1.0	39.0	0.020		
CH-32	NORTH SIDE	50.0 50.0		<u>1.0</u> 1.0	37.5	25.00	1.0	1.0	45.0	0.030		
just east of Karl Rd. SEE DETAIL	SOUTH SIDE	50.0		1.0	57,5	23.00	1.0	1.0	20.0		16.0	6.0
Location # 11	NORTH SIDE FIELD ENTR.								2010			
CH-57	EAST SIDE	62.5		1.0	25.0	12.5	1.0	1.0	45.0	0.030		
N. of Sefton Rd.	WEST SIDE	62.5	┨────┤	1.0	25.0	12.5	1.0	1.0	14.0	0.020		
SEE DETAIL		02.3		1.0	2.3.0	26.0	10					
Location # 12			- <del> </del>						· ···	1		
CH-61 Franklin St.	EAST SIDE	150.0		1.0		87.5	1.0	1.0				
ust N.of Mt. Gijead Rd.		20010	-									
SEE DETAIL	<u> </u>		1 1									
Location # 13	NW QUADRANT	25.0	1 1			25.0		1.0				
CH-20 Illiniwick Road	SEQUADRANT	25.0	- <u> </u>			25.0		1.0				
over  -72	SW QUADRANT	25.0	_	1.0			1.0		8.0	0.010		
–												
Location # 14							·····					
CH-25 Argenta Road	NW QUADRANT	25.0	1.0	1.0								
over I-72	SE QUADRANT	25.0	1.0	1.0								
									ļ			
Total		4646.0	3.0	21.0	125.0	3562.5	18.0	19.0	514.0	0.3	16.0	6.0
	• • • • • • • • • • • • • • • • • • •							-			TOTAL	SHEET
	* 1 PIECE OF RAIL NEEDS A 12' RADIU ** 1 DIECE OF RAIL NEEDS AN 2' RADIU								SECTION	COUNTY	SHEETS	NO.
	** 1 PIECE OF RAIL NEEDS AN 8' RAD *** 1 PIECE OF RAIL NEEDS AN 8' RAD								1.6-00282-00-GR	MACON	14	3

# LOCATION #5 DETAILS

Wyckles Road North of W. Rocks Springs Rd.

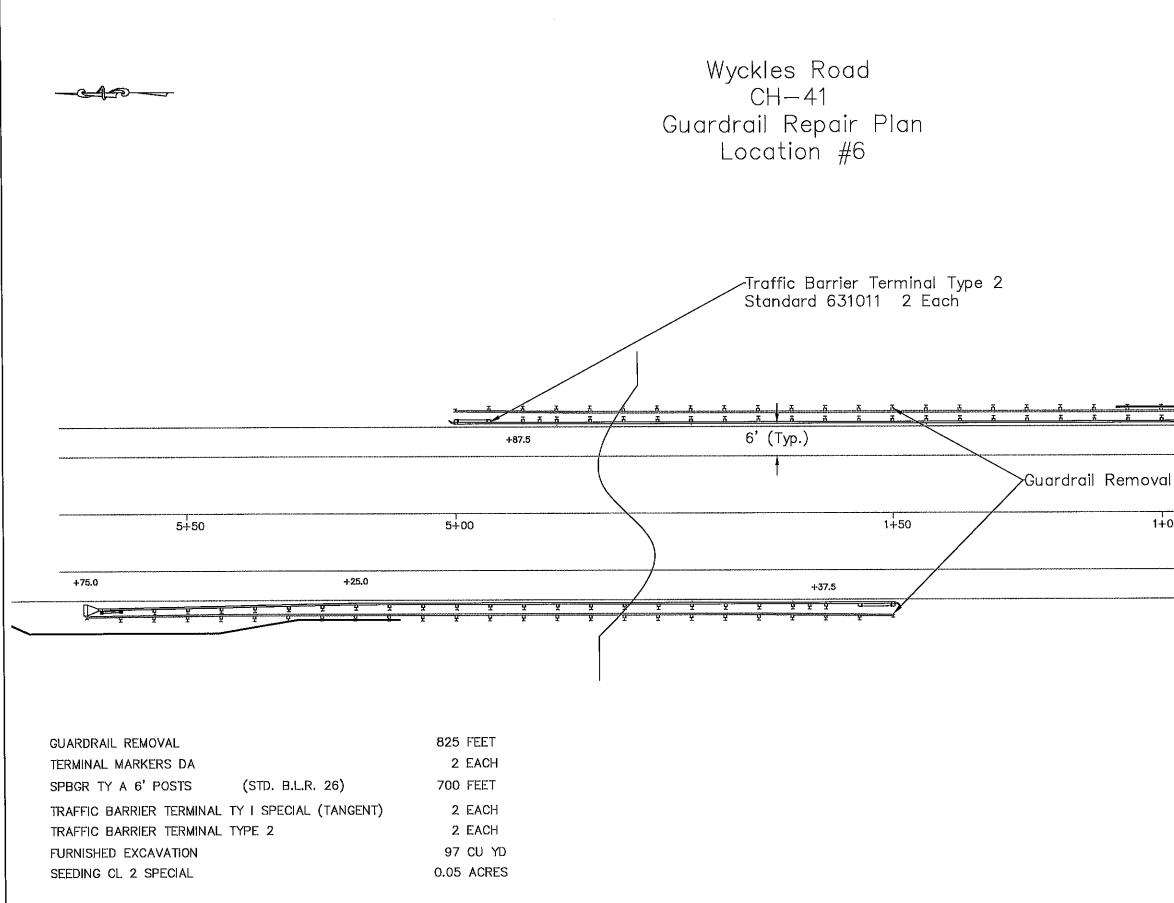


GUARDRAIL REMOVAL	125 FEET
TERMINAL MARKER DA	2 EACH
SPBGR TY A 6' POSTS (STD 630001-11)	50 FEET
TRAFFIC BARRIER TERMINAL TY 1 SPECIAL (TANGENT)	2 EACH
TRAFFIC BARRIER TERMINAL TYPE 2	2 EACH
FURNISHED EXCAVATION	62 CU YD
SEEDING CLASS 2 SPECIAL	0.05 ACRES

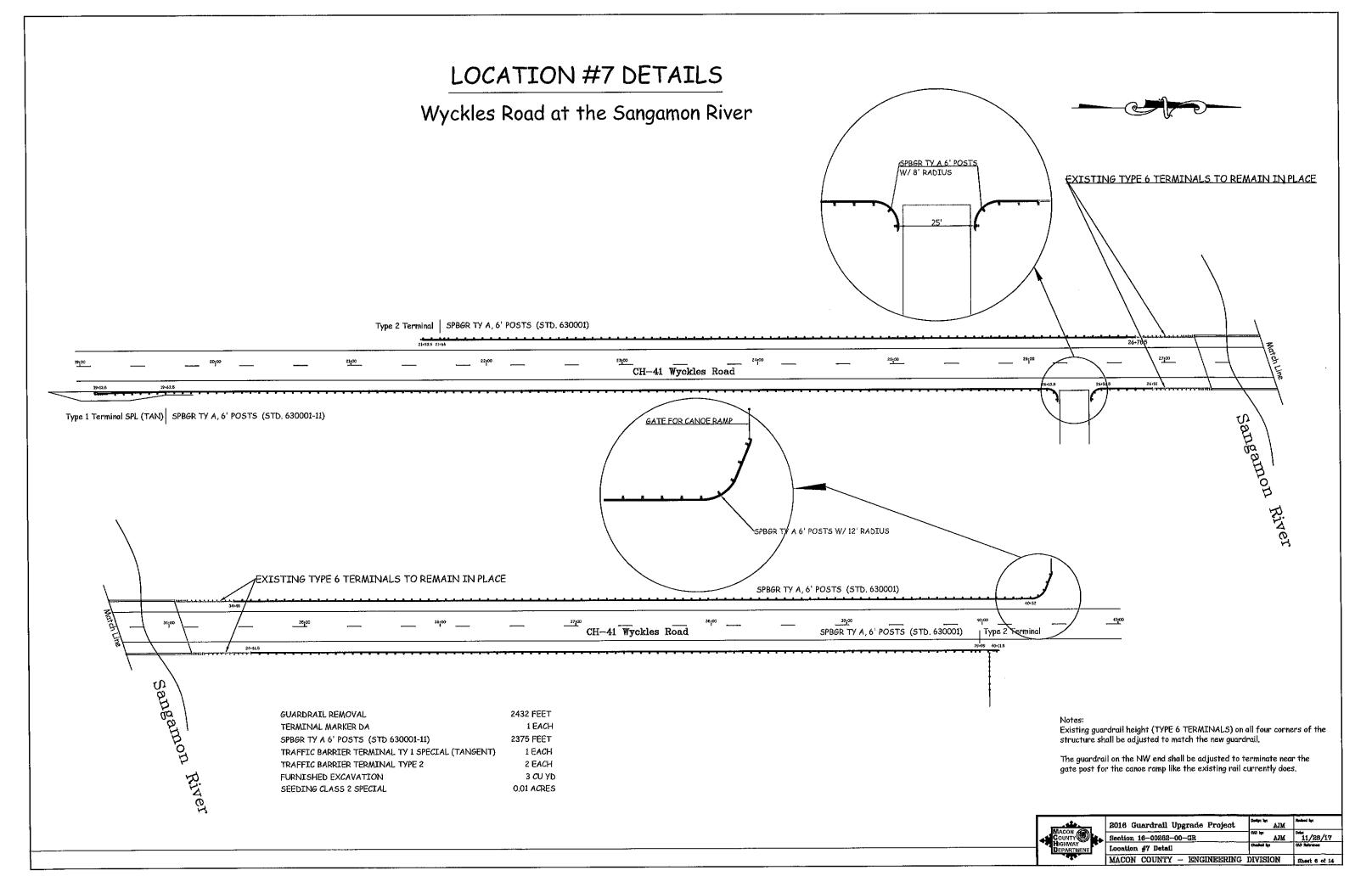


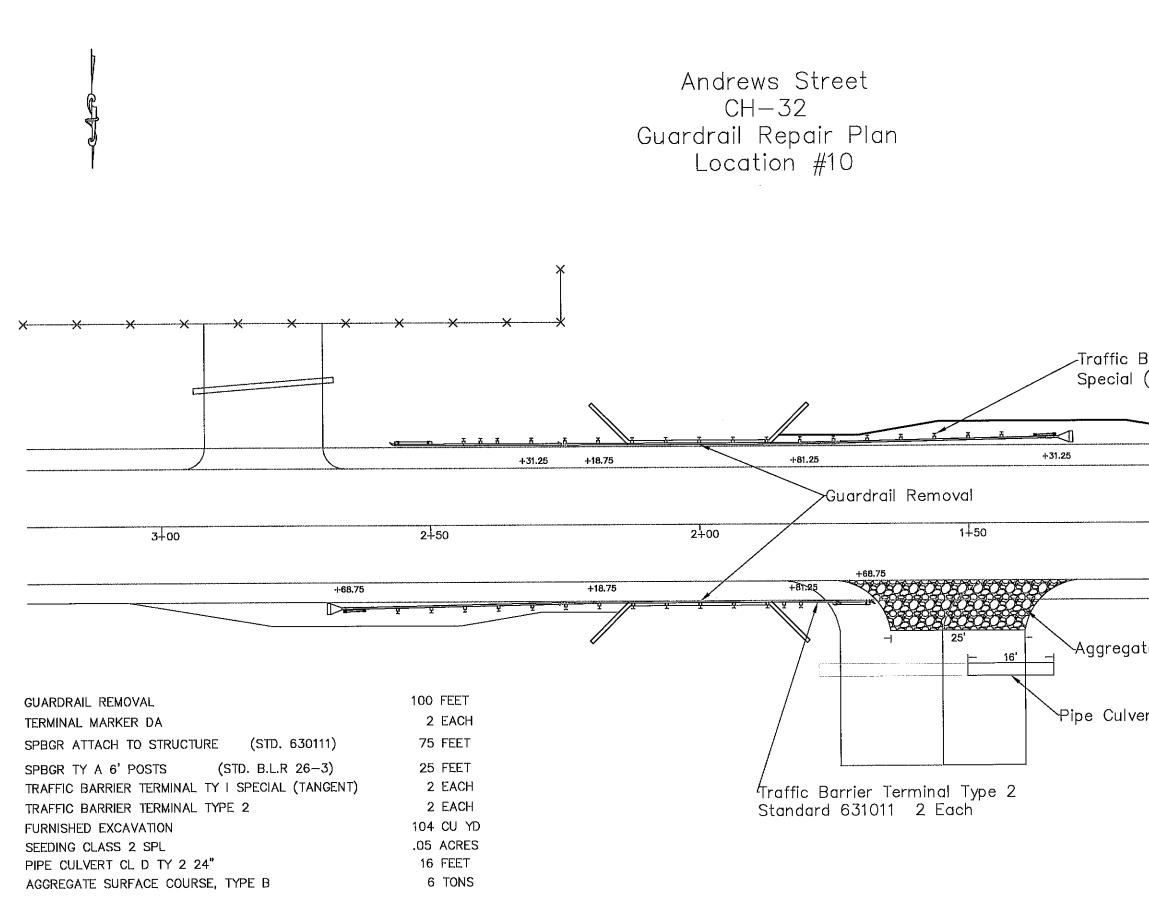
107100

	2016 Guardrail Upgrade Project	Deelign Say: ÁJJÁ	Redend Sys
	Section 16-00262-00-GR	ne hr MLA	11/8/17
DEPARTMENT	Location #5 Dotail	Closehed by:	CAD References
	MACON COUNTY - ENGINEERING	DIVISION	Sheet 4 of 14

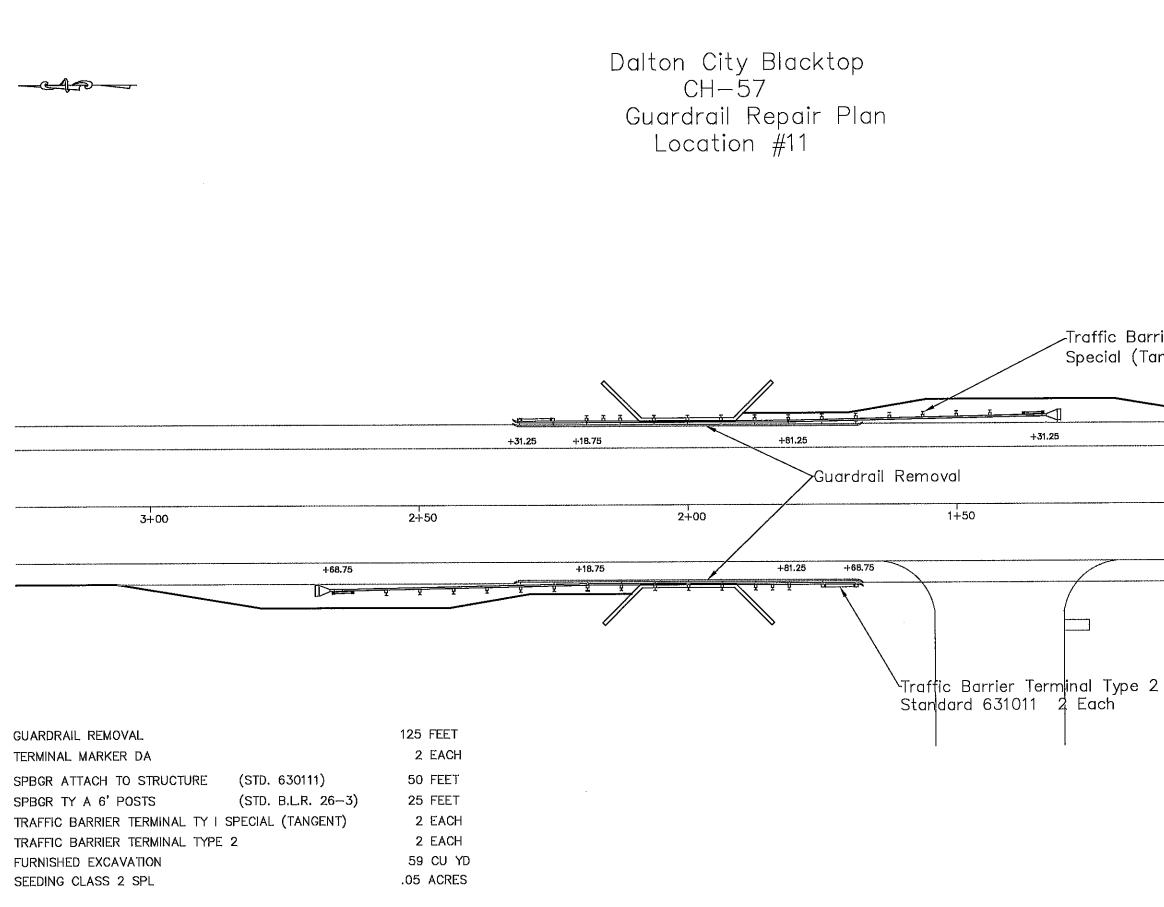


	/	/Traffic Barrier Term Special (Tangent)	ninal T 2 Eac	ype 1 h
	<u></u>			
0		0+	50	-
				-
			Doubyn fan	Ruduci bys
		2016 Guardreil Upgrade Project Section 18-00282-00-GR Location #6 Dotall MACON COUNTY - ENGINEERING	AJM Child Sign AJM Child Sign	Dubat 11/28/17 CRD References Stheet 6 of 14





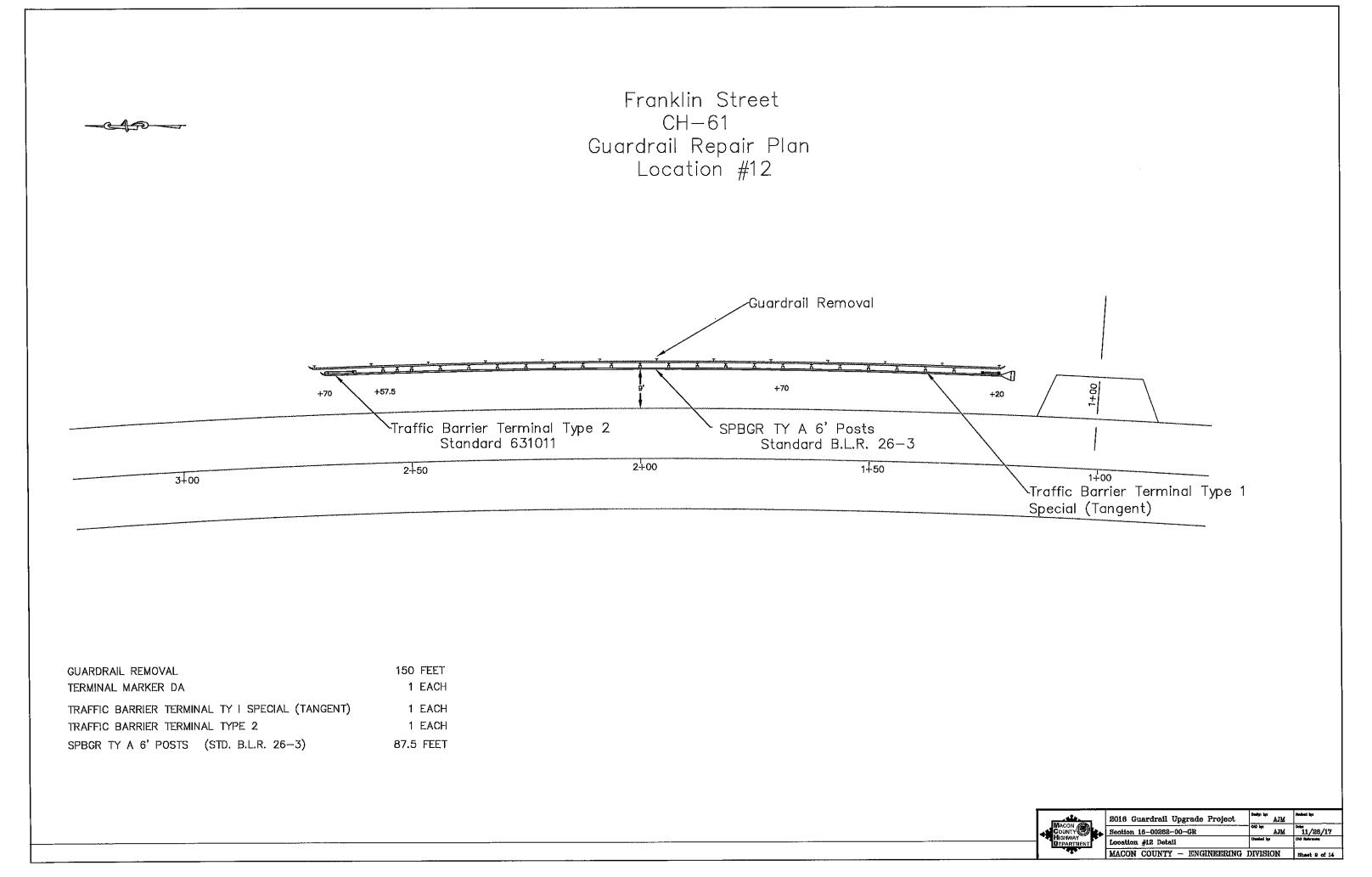
Barrier Termin (Tangent) 2	al Type 1 Each		
1+00			
1700			
te Surface Co	ourse, Type B		
ert Class D Ty	/pe 1 24", 16' ext	ension	
Te attace Te	2016 Guardrail Upgrade Project	Design byn Auffad	Redeed by:
	Section 18-00282-00-GR Location #10 Detail	Contract of the second	Dohn 11/26/17 CKD References Bibset 7 of 14

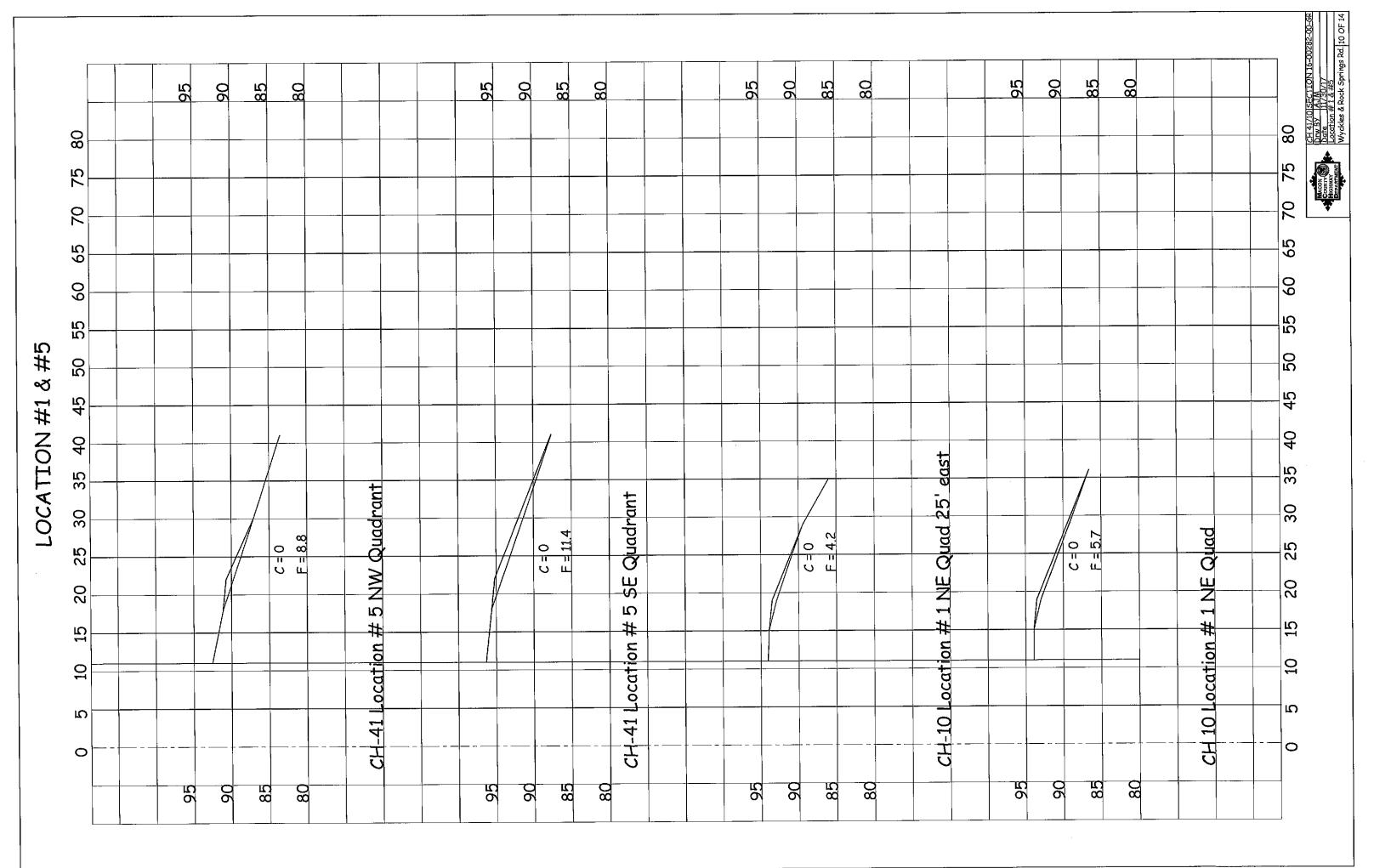


-Traffic Barrier Terminal Type 1 Special (Tangent) 2 Each

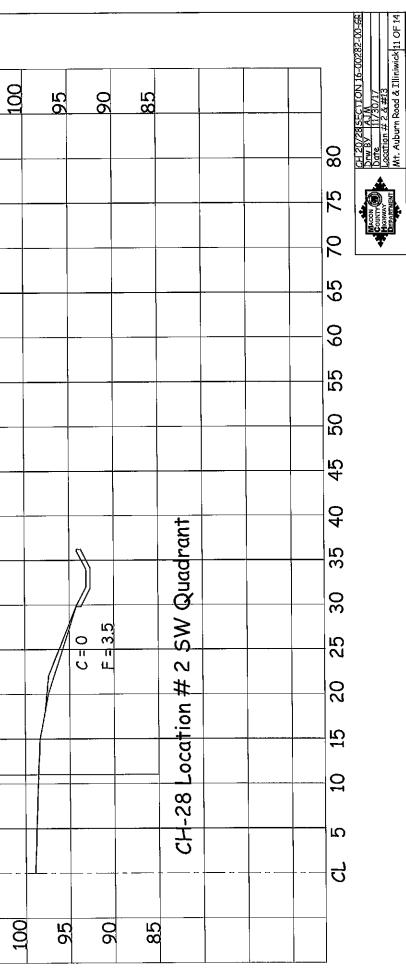
1+00

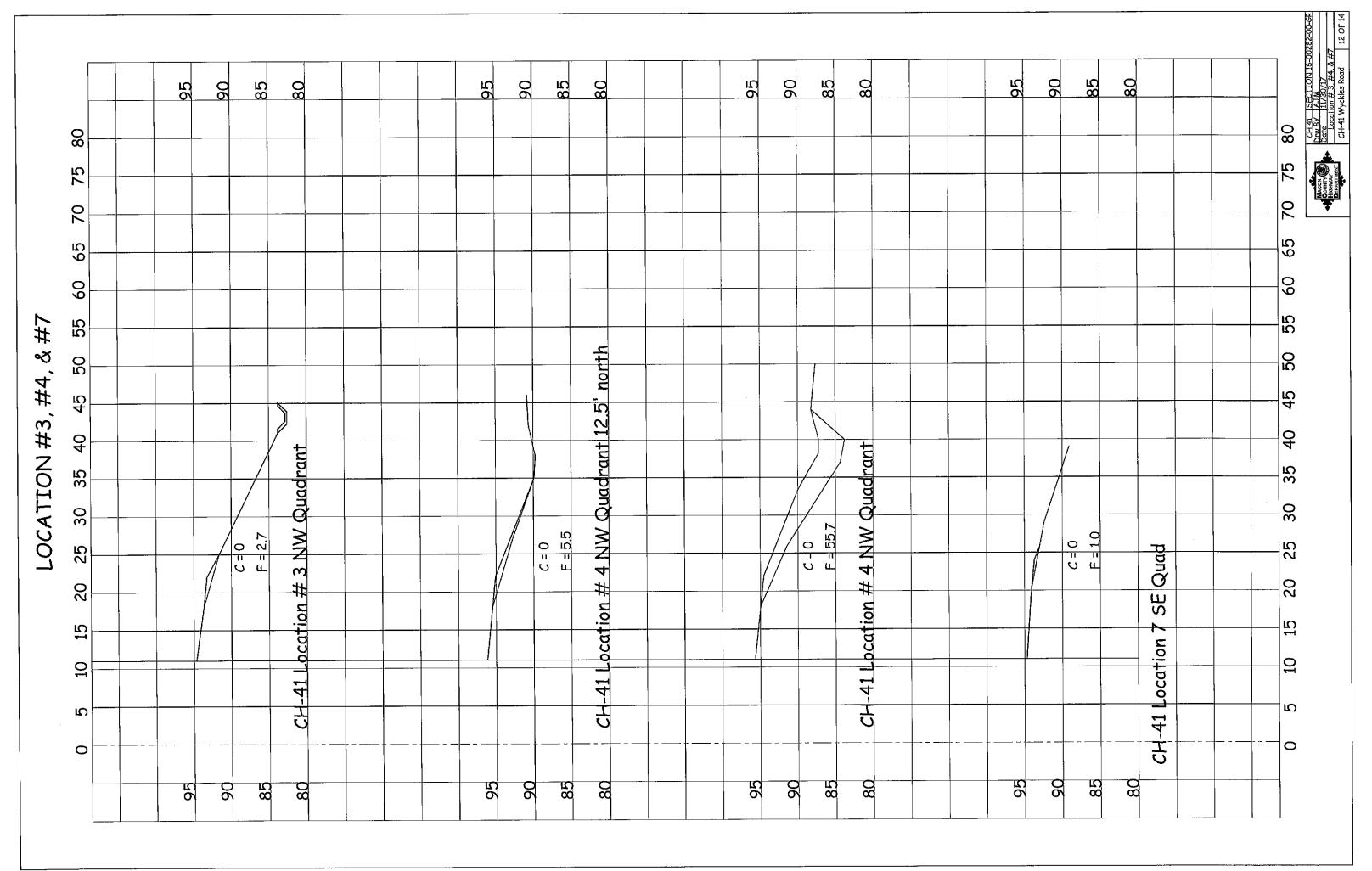
		2016 Guardrail Upgrade Project	MLA	Redeed by
4		Section 16-00282-00-GR	AIM	11/28/17
1	DEPARTMENT	Location #11 Detail	Checked ligt	CAD Julianeses
	. <b></b>	MACON COUNTY - ENGINEERING I	DIVISION	Sheet 6 of 14

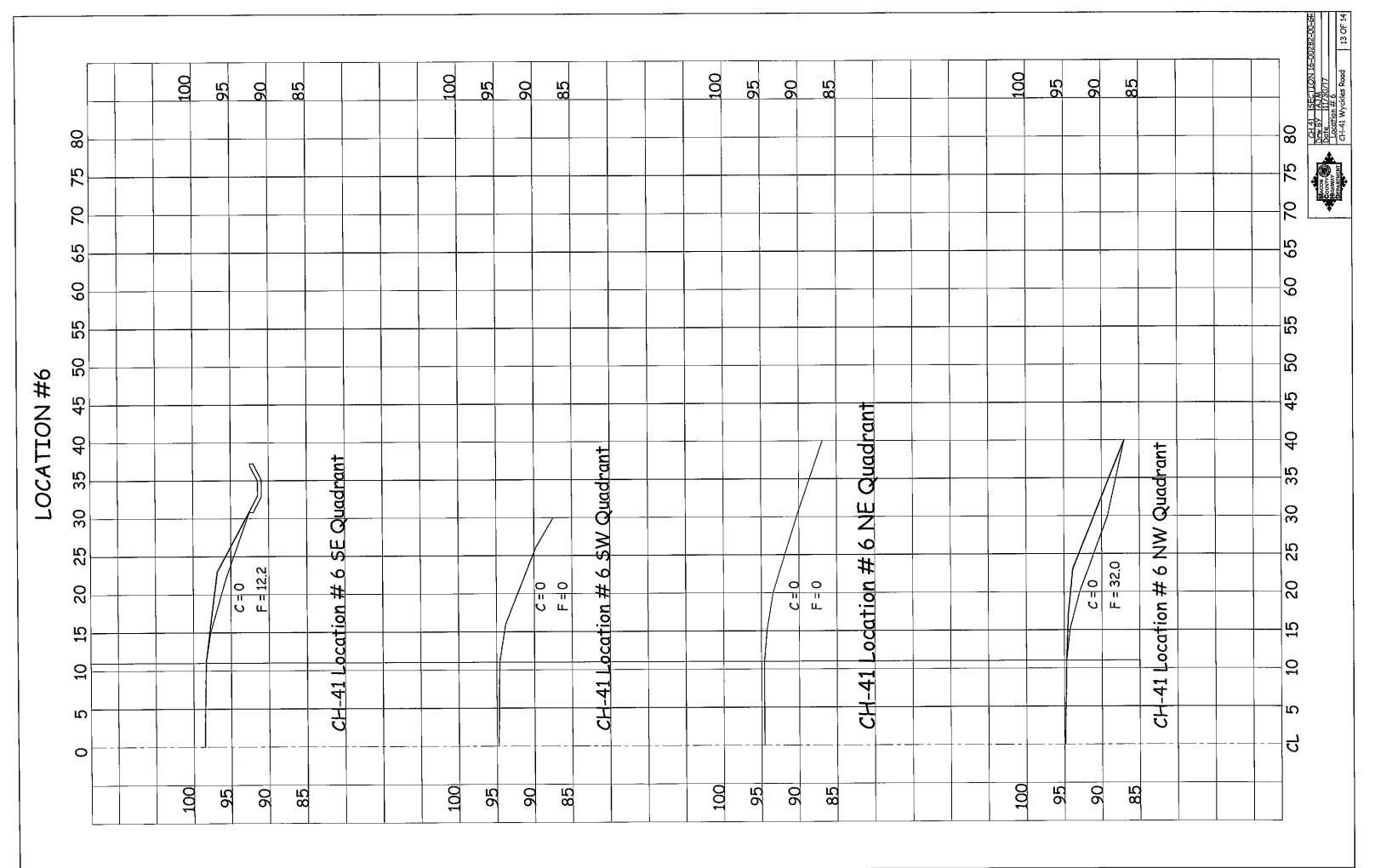




& #13 Quad LOCATION #2 overpass SW  $\prod$ 2 NW Quadrant Quadrant ocation # 13 I-72 C = 0 F = 10.3 2 NE 3.0 //o þ <u>н</u> л ц *C* = 0 F = 2.25 ocation # ocation # -28 CH-28 CH-20 R വ 







		100	95	6	85		100	95 		Sta. 2+75	10 5 CL	100	95 95	06	5		100
LOCATION #10 & #11	40 45 50							-++	C = 0 F = 12.83	CH-32 Location # 10	40 35 30 25 20 15		0 C = 0	0	ocation # 11 5ta. 2+62.		
	15 20 25 30 35 4			C = 0 F = 14.78		ocation # 10 Sta 1+25					20 42				CH-57 Lo		
	0 5 10	100		<del>6</del> 0	85	CH-32 Loc		0 2 2 2	00	85		100	95	06	85	 	 100

