

04-29-2022 LETTING ITEM 187

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED HIGHWAY SAFETY IMPROVEMENT PROJECT

FAS 496 (CH 14) SECTION 19-00216-00-SP PROJECT NO. VVX2(892) VERMILION COUNTY HMA SHOULDERS, ROADWAY, RE-ALIGNMENT C-95-011-21

Table with columns: F.A.S. RTE., SECTION, COUNTY, TOTAL SHEETS, SHEET NO. Values: 496, 19-00216-00-SP, VERMILION, 80, 1

FOR INDEX OF SHEETS, SEE SHEET NO. 2 FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

UTILITY CONTACTS:

UTILITY TYPE:

ELECTRIC EASTERN ILLINI ELECTRIC COOP ATTN: BRAD SMITH PHONE: (217)379-2131 EXT 173 EMAIL: BRAD.SMITH@IEEC.COOP

UTILITY TYPE:

COMMUNICATION FRONTIER COMMUNICATIONS ATTN: MICHELLE CUSTER PHONE: (309) 557-1373 EMAIL: MICHELLE.I.CUSTER@FTR.COM

UTILITY TYPE:

ELECTRIC AMEREN ILLINOIS ATTN: NATHAN HILL PHONE: (618)301-5327 EMAIL: NHILL2@AMEREN.COM

UTILITY TYPE:

OIL BP PIPELINES ATTN: BLAKE PATRICK PHONE: (872)245-3915 OR 630-281-0342 EMAIL: BLAKE.PATRICK@BP.COM

UTILITY TYPE:

GAS PANHANDLE EASTERN PIPELINE ATTN: MATT DONALDSON PHONE: (217)625-2841 EXT5511 EMAIL: MATTHEW.DONALDSON@ENERGEYTRANSFER.COM



BRIDGE OMISSION SN 092-3334 STA 248+97.24 = STA 249+72.63

BRIDGE OMISSION SN 092-3396 STA 262+50.00 = STA 262+97.54

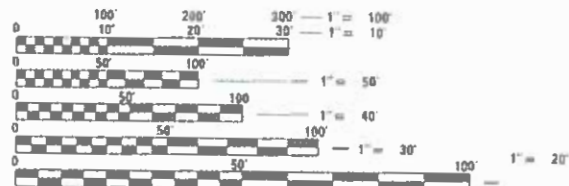
EQUATION: STA 264+58.38 BK = STA 141+74.00 AH

BRIDGE OMISSION SN 092-3457 STA 187+48.45 = STA 188+91.92

EQUATION: STA 387+47.75 BK = STA 100+00.00 AH

END IMPROVEMENT STA 118+18.78

BEGIN IMPROVEMENT STA 162+95.90



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.

JULIE JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123 OR 811



CONTRACT NO. 91610

LAYOUT

Total Project Length = 36,555.01 Feet = 6.923 Miles Net Length of Section = 36,274.54 Feet = 6.870 Miles



FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR DESIGN SPEED 50 MPH ADT=500 (2019) BEGIN TO 1850E ADT=250 (2019) FROM 1850E TO 2150E ADT=125 (2019) 2150E TO END



Kimberly S. Cummings 10/08/21

ILLINOIS PROFESSIONAL NO. 56816 (Expires 11/30/22)

Approval and signature block with dates and names: APPROVED 10/8, PASSED OCTOBER 21, RELEASED FOR BID BASED ON LIMITED REVIEW October 22.

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**GENERAL NOTES**

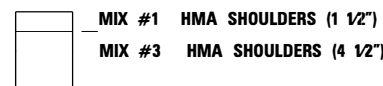
**AGGREGATE SURFACE COURSE, TYPE B**

AGGREGATE SURFACE COURSE, TYPE B SHALL BE REQUIRED FOR ALL GRANULAR CONSTRUCTION OF SIDE ROADS, ENTRANCES, WHETHER OR NOT PORTIONS OF THE SURFACES THUS CONSTRUCTED ARE TO BE COVERED WITH A BITUMINOUS SURFACE, EXCEPT WHERE NOTED DIFFERENTLY ON THE PLANS.

**HOT-MIX ASPHALT MIXTURE REQUIREMENTS**

MIX NUMBER	#1	#2	#3
LOCATION	CH 14	CH 14	CH 14
MIXTURE USE	SURFACE & INCIDENTAL & TOP LIFT SHOULDERS	LOWER LIFT SHOULDERS	BINDER
AC/PG	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS	4.0 @ NDESIGN = 50	4.0 @ NDESIGN = 50	4.0 @ NDESIGN = 50
MIX COMP (GRADATION)	IL 9.5	IL 19.0	IL 19.0
FRICTION AGGREGATE	MIX C	N.A.	N.A.
MIXTURE WEIGHT	112	112	112
QUALITY MANAGEMENT PROGRAM	QC/QA	QC/QA	QC/QA
SUBLOT SIZE	N.A.	N.A.	N.A.

**ASPHALT PAVING DIAGRAM**



**NOTES:**

- INDIVIDUAL LIFT THICKNESS OF EACH MIX TYPE WILL BE NO LESS THAN 3 TIMES NOMINAL MAXIMUM AGGREGATE SIZE AND NO MORE THAN 6 TIMES NOMINAL MAXIMUM.
- FOR DESIGN PURPOSES, MIXTURE WEIGHT FOR ALL MIXES IS DETERMINED TO BE 112.0 LB./S.Y./IN., UNLESS OTHERWISE NOTED.
- SUBLOT SIZES FOR PFP AND QCP MIXES WILL BE 1,000 TONS, UNLESS OTHERWISE AGREED TO BY THE ENGINEER AND THE PAVING CONTRACTOR.

**PAVING SURFACE COURSE**

CONTINUOUS PAVING OPERATIONS ON THE MAIN ROADWAY SHALL BE MAINTAINED AT ALL TIMES DURING THE CONSTRUCTION OF THE HOT-MIX ASPHALT SURFACE. NO INTERRUPTIONS FOR SIDE ROADS, ENTRANCES, TURN LANES, ETC. WILL BE ALLOWED.

**ORDERING LENGTH CONFIRMATION - DRAINAGE ITEMS**

THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER IN REGARD TO THE EXACT LENGTH OF THE BOX/PIPE CULVERTS REQUIRED PRIOR TO ORDERING THESE ITEMS.

THE AREA TO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY AS DIRECTED BY THE ENGINEER.

ALL ELEVATIONS SHOWN IN THE PLANS ARE BASED ON NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88)

LAYOUT OF EROSION CONTROL ITEMS MAY BE VARIED IN THE FIELD TO SUIT GROUND CONDITIONS AS DIRECTED BY THE ENGINEER.

APPLICATION RATES	
GRANULAR MATERIALS, TYPE A	2.05 TONS/CU YD
GRANULAR MATERIALS, TYPE B	1.8 TONS/CU YD
RIPRAP	1.75 TONS, CU YD
TEMPORARY EROSION CONTROL SEEDING	100 LBS/ACRE
HOT-MIX ASPHALT	112 LBS/SQ YD/IN
BITUMINOUS MATERIALS (PRIME COAT)	0.25 LBS/SQ FT
BITUMINOUS MATERIALS (TACK COAT)	0.025 LBS/SQ FT

THIS SECTION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE PLANS, THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JAN 1, 2022, THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, AND THE SPECIAL PROVISIONS INCLUDED IN THESE PLANS.

ANY REFERENCE TO THE STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE EDITION, AS INDICATED BY THE SUB-NUMBER, LISTED IN THE INDEX OF SHEETS, OR THE COPY OF THE STANDARD INCLUDED IN THESE PLANS.

THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRS TO ANY UTILITY LINES AND EXISTING IMPROVEMENTS TO REMAIN THAT ARE DAMAGED AS A RESULT OF THE WORK.

IF CH 14 IS CLOSED FOR ANY REASON, WITH THE APPROVAL OF THE COUNTY ENGINEER, THE CONTRACTOR WILL NOTIFY EMERGENCY SERVICES, SCHOOL DISTRICTS, AND THE US POSTAL SERVICE PRIOR TO CLOSING AND REOPENING CH 14. THE TOWNSHIP HIGHWAY COMMISSIONERS WILL ALSO BE NOTIFIED PRIOR TO THE CLOSURE AND REOPENING OF CH 14.

THE LOCATION OF THOSE BURIED AND ABOVE GROUND UTILITIES SHOWN ARE APPROXIMATE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING UTILITY PROPERTY FROM CONSTRUCTION OPERATIONS AS OUTLINED IN ARTICLE 107.26 OF THE STANDARD SPECIFICATIONS. THE J.U.L.I.E NUMBER IS 1 (800) 892-0123. A MINIMUM 48 HOURS ADVANCE NOTICE IS REQUIRED. SEE SPECIAL PROVISIONS FOR STATUS OF UTILITIES WITH UTILITY COMPANIES LISTED.

**PROPERTY OWNER ACCESS REQUIREMENT**

ACCESS MUST BE MAINTAINED TO ALL EXISTING PROPERTIES DURING CONSTRUCTION PER ARTICLE 107.09 UNLESS ARRANGEMENTS ARE MADE IN WRITING BY THE CONTRACTOR WITH THE PROPERTY OWNERS WITH A COPY TO THE ENGINEER FOR SHORT-TERM CLOSURES.

**COMMITMENTS**

NO COMMITMENTS HAVE BEEN MADE ON THIS PROJECT.

**LIST OF ILLINOIS DOT HIGHWAY STANDARDS**

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
630001-12	STEEL PLATE BEAM GUARDRAIL
630106-02	LONG-SPAN GUARDRAIL OVER CULVERT
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
642006-01	SHOULDER RUMBLE STRIPS, 8 IN.
666001-01	RIGHT OF WAY MARKERS
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE
701011-05	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, FOR SPEEDS > 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS DAY ONLY, FOR SPEEDS > 45 MPH
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH
701901-08	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
725001-01	OBJECT TERMINAL MARKERS
728001-01	TELESCOPING STEEL SIGN SUPPORT
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 27-1	TRAFFIC BARRIER TERMINAL TYPE 5A

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CODE NO.	ITEM	UNIT	CONSTR. CODE	
			90% FED 10% LOCAL	
			ROADWAY	
			0021	RURAL
20200100	EARTH EXCAVATION	CU YD	7,730	
20200500	EARTH EXCAVATION (WIDENING)	CU YD	800	
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	666	
28000305	TEMPORARY DITCH CHECKS	FOOT	180	
28000400	PERIMETER EROSION BARRIER	FOOT	648	
28000500	INLET AND PIPE PROTECTION	EACH	23	
35100100	AGGREGATE BASE COURSE, TYPE A	TON	2,497	
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	55	
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	10,458	
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	1,000	
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	637	
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	382	
40800050	INCIDENTAL HOT-MIX ASPHALT SURFACING	TON	34	
44000100	PAVEMENT REMOVAL	SQ YD	4,301	

\* SEE SPECIAL PROVISIONS

△ SPECIALTY ITEMS

CODE NO.	ITEM	UNIT	CONSTR. CODE	
			90% FED 10% LOCAL	
			ROADWAY	
			0021	RURAL
48101200	AGGREGATE SHOULDERS, TYPE B	TON	355	
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	95	
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	3,898	
50104400	CONCRETE HEADWALL REMOVAL	EACH	37	
50105220	PIPE CULVERT REMOVAL	FOOT	596	
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	2	
54010602	PRECAST CONCRETE BOX CULVERTS 6' X 2'	FOOT	44	
* 542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	714	
* 542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	104	
△ 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	500	
△ 63000370	LONG-SPAN GUARDRAIL OVER CULVERT, 25 FT SPAN	FOOT	200	
△ 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4	
△ 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	12	
63200310	GUARDRAIL REMOVAL	FOOT	500	

\* SEE SPECIAL PROVISIONS

△ SPECIALTY ITEMS

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PLOT DATE = 10/7/2021	DATE - 10-6-2021	REVISED -

**VERMILION COUNTY  
CH 14 IMPROVEMENT**

**SUMMARY OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE. 496	SECTION 19-00216-00-SP	COUNTY VERMILION	TOTAL SHEETS 80	SHEET NO. 3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 91610	

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CODE NO.	ITEM	UNIT	CONSTR. CODE	
			90% FED 10% LOCAL	
			ROADWAY	
			0021	RURAL
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	8,532	
66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	8	
67100100	MOBILIZATION	L SUM	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	
70300100	SHORT TERM PAVEMENT MARKING	FOOT	376	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	63	
△ 72000100	SIGN PANEL - TYPE 1	SQ FT	9	
△ 72000200	SIGN PANEL - TYPE 2	SQ FT	13	
△ 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	12	
△ 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	42	
△ 78001100	PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	115	
△ 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	83,368	

\* SEE SPECIAL PROVISIONS

△ SPECIALTY ITEMS

CODE NO.	ITEM	UNIT	CONSTR. CODE	
			90% FED 10% LOCAL	
			ROADWAY	
			0021	RURAL
△ 78001180	PAINT PAVEMENT MARKING - LINE 24"	FOOT	40	
△ 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	32	
* X1200050	BOX CULVERT REMOVAL	FOOT	72	
△ * X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	6.75	
* X2810208	STONE RIPRAP, CLASS A4 (SPECIAL)	TON	41	
* X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1	
* X7240205	REMOVE SIGN COMPLETE	EACH	19	
* Z0013798	CONSTRUCTION LAYOUT	L SUM	1	

\* SEE SPECIAL PROVISIONS

△ SPECIALTY ITEMS



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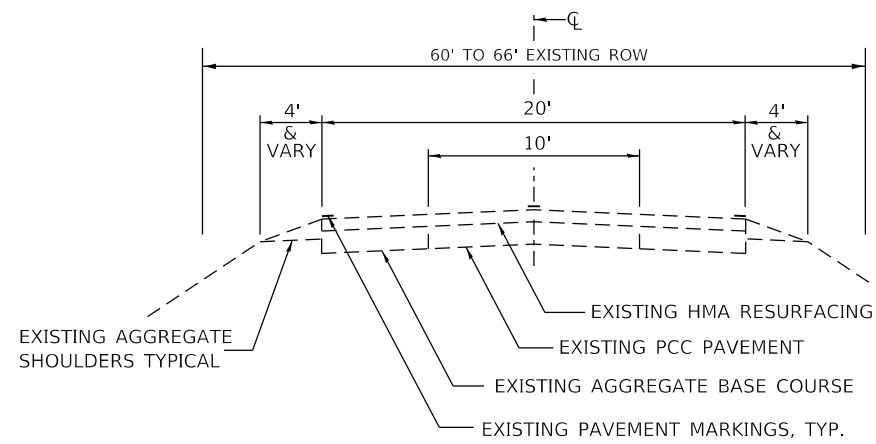
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**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

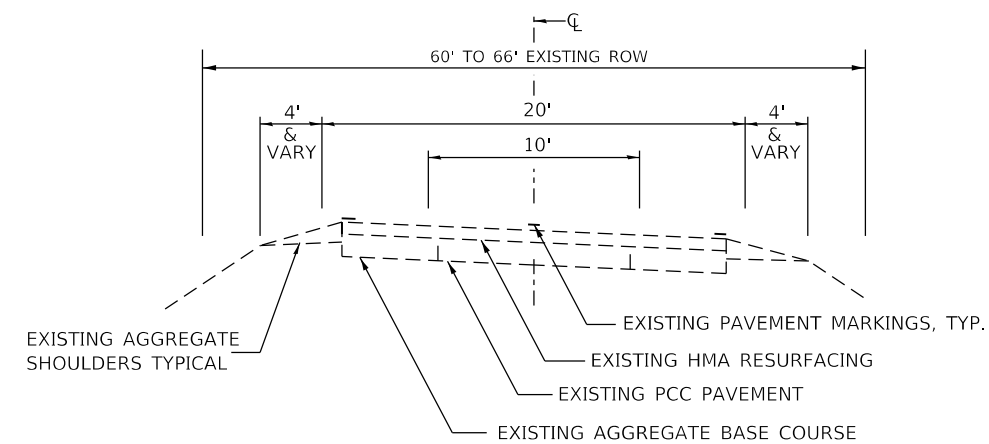
**SUMMARY OF QUANTITIES**

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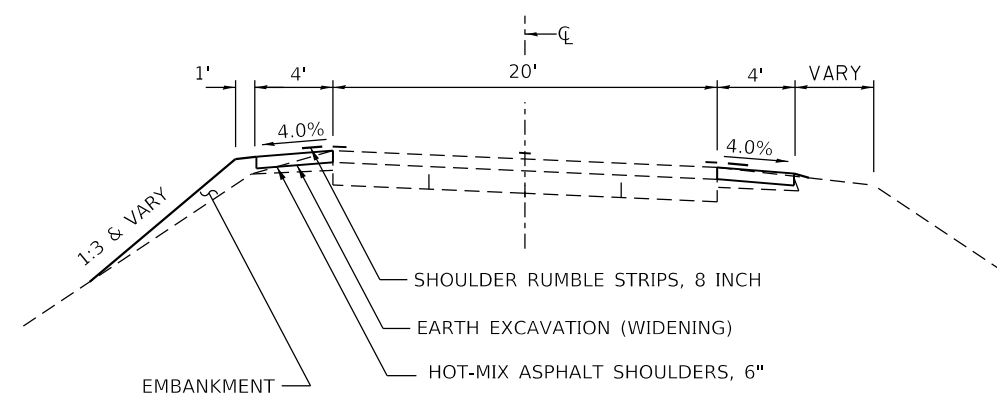
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496	19-00216-00-SP	VERMILION	80	4
CONTRACT NO. 91610			ILLINOIS FED. AID PROJECT	



**CH 14 EXISTING TYPICAL CROSS SECTION  
AT TANGENT SECTIONS**

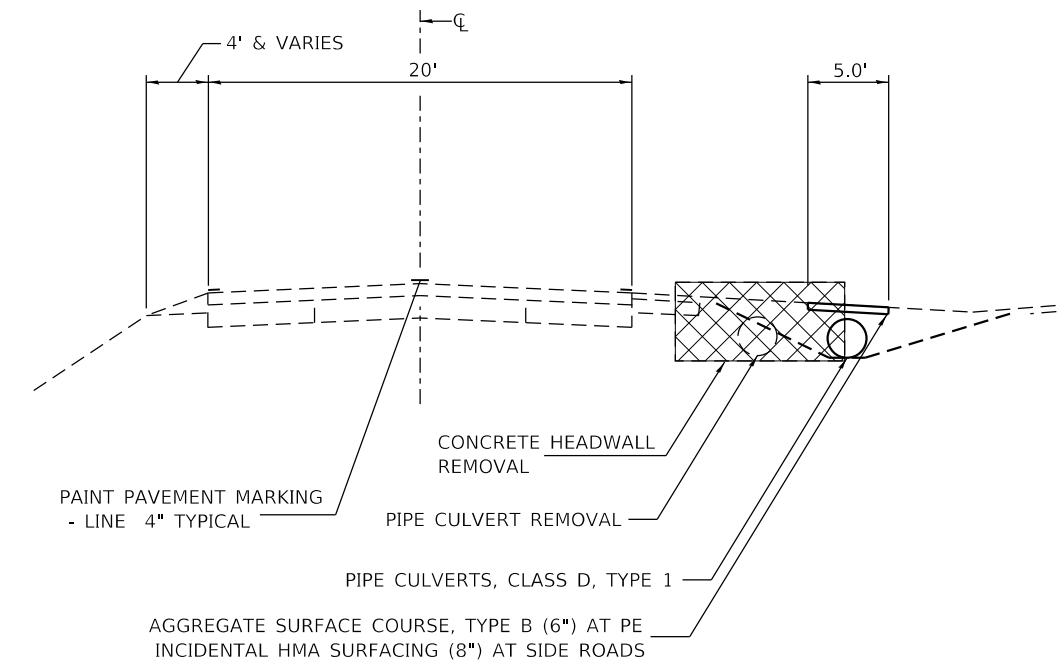


**CH 14 EXISTING TYPICAL CROSS SECTION  
AT CURVE SECTIONS**



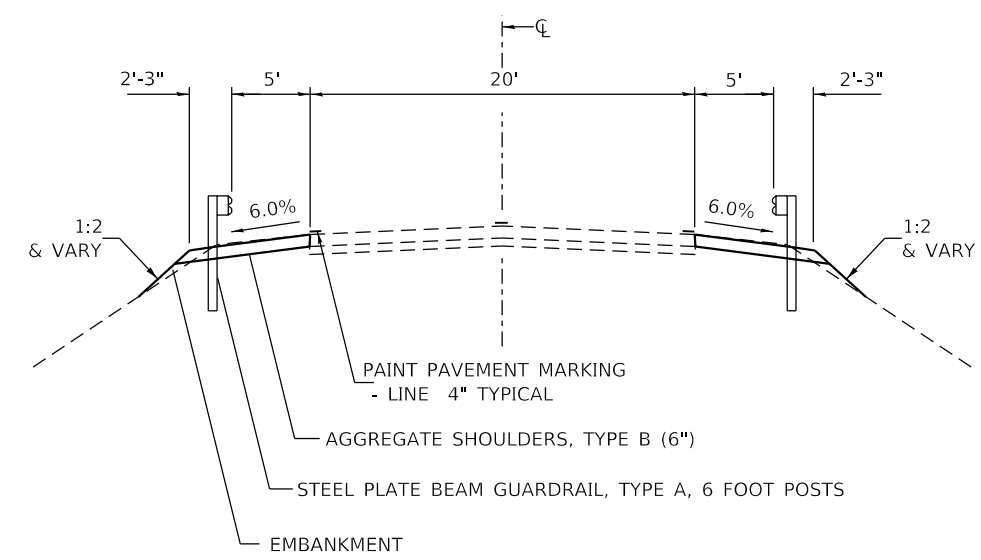
**CH 14 PROPOSED TYPICAL SECTION  
HMA SHOULDER LOCATIONS WITHIN CURVES**

- STA 209+29.11 TO STA 218+21.40
- STA 143+80.13 TO STA 155+11.60
- STA 165+87.24 TO STA 178+05.70
- STA 207+87.16 TO STA 219+57.77



**CH 14 PROPOSED TYPICAL CROSS SECTION  
AT HEADWALL REMOVAL LOCATIONS**

SEE SCHEDULES FOR LOCATIONS



**CH 14 PROPOSED TYPICAL CROSS SECTION  
AT GUARDRAIL IMPROVEMENTS**

- LT & RT STA 163.+93.00 TO STA 166+66.00
- LT STA 247+59.00 TO STA 248+90.00
- RT STA 247+80.00 TO STA 249+06.00
- LT STA 249+63.00 TO STA 250+83.00
- RT STA 249+79.00 TO STA 251+04.00
- LT & RT STA 302+99.00 TO STA 304+80.00

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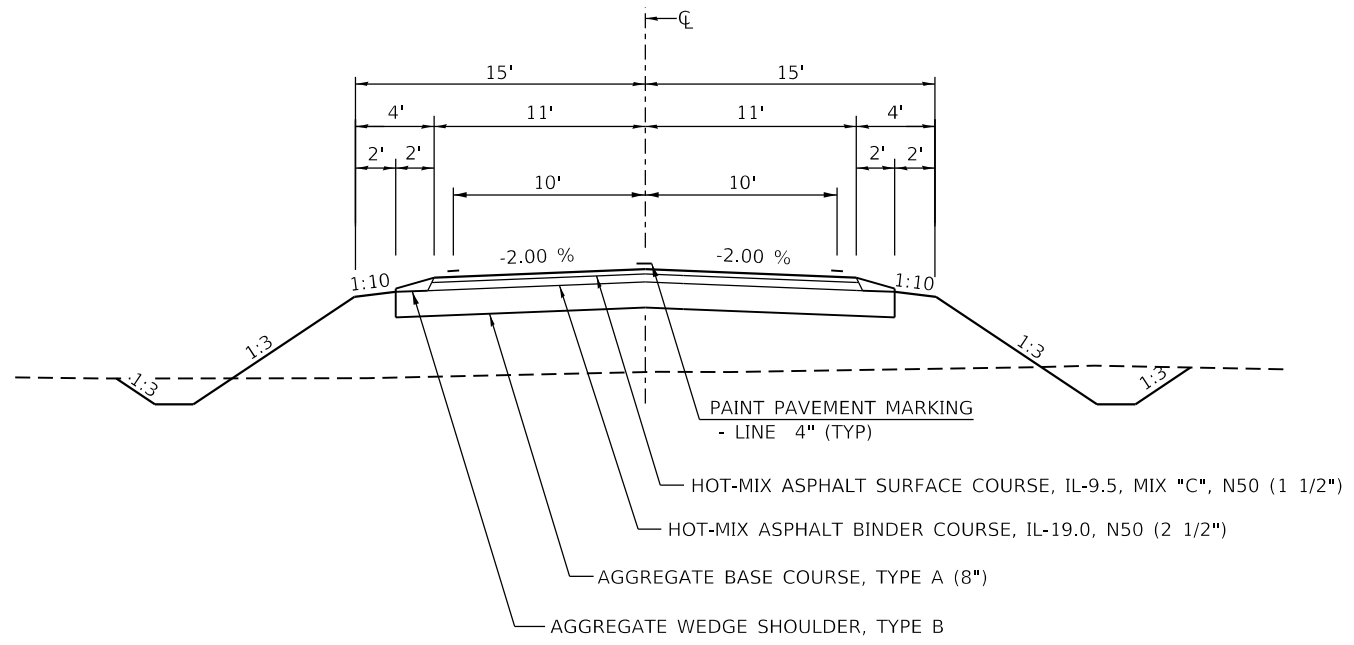
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**VERMILION COUNTY  
CH 14 IMPROVEMENT**

**TYPICAL CROSS SECTIONS**

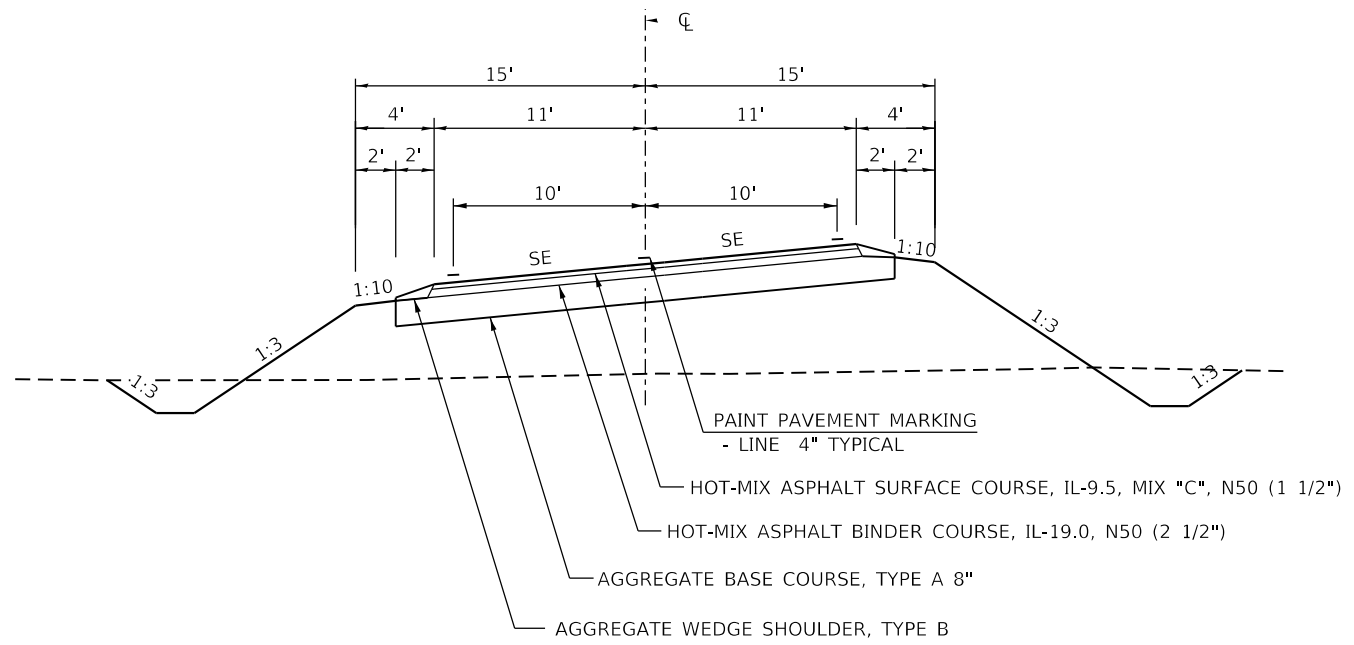
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	5
CONTRACT NO. 91610				
ILLINOIS FED. AID PROJECT				



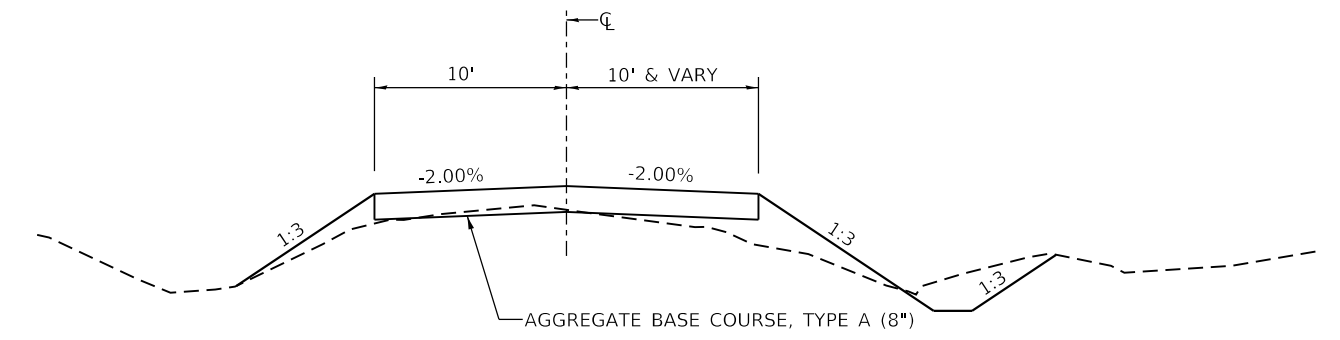
**CH 14 PROPOSED TYPICAL CROSS SECTION  
AT RE-ALIGNMENT ON TANGENTS**

STA 100+00.00 TO STA 109+40.18  
STA 111+97.24 TO STA 118+18.78



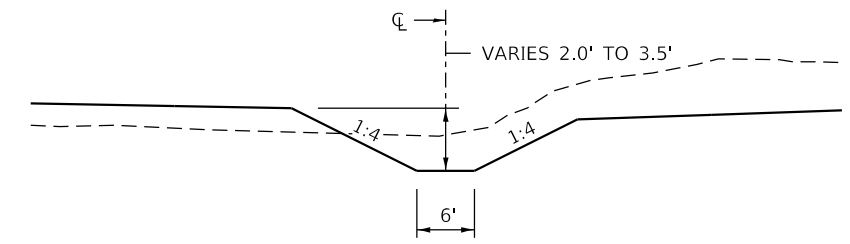
**CH 14 PROPOSED TYPICAL CROSS SECTION  
AT RE-ALIGNMENT ON CURVES**

STA 109+40.18 TO STA 111+97.24



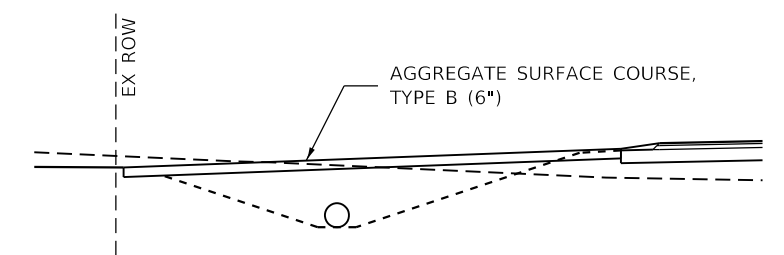
**STATE LINE ROAD  
PROPOSED TYPICAL CROSS SECTION**

STA 100+11.00 TO STA 101+01.57



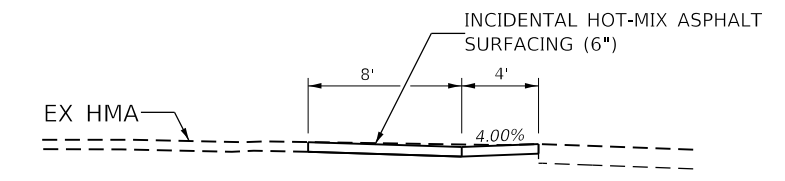
**PROPOSED DITCH AT RE-ALIGNMENT**

STA 10+29.71 TO STA 11+72.31



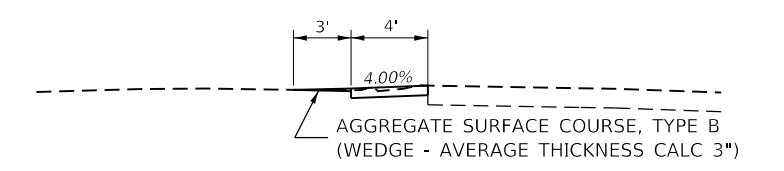
**PROPOSED FIELD ENTRANCE**

LT STA 114+00.00  
LT STA 118+07.00



**PROPOSED HMA ENTRANCE**

RT STA 170+26.00



**PROPOSED AGGREGATE ENTRANCE  
(EXISTING AGGREGATE)**

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PLOT SCALE = 10.0000' / in.	CHECKED - CGF	REVISED -
PLOT DATE = 10/7/2021	DATE - 10-6-2021	REVISED -

**VERMILION COUNTY  
CH 14 IMPROVEMENT**

**TYPICAL CROSS SECTIONS**

SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	6
CONTRACT NO. 91610				
ILLINOIS FED. AID PROJECT				

20200100		EARTHWORK			
LOCATION		EXCAVATION	EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
		CU YD	CU YD	CU YD	CU YD
Re-Alignment State Line Road	STA 100+00.00 TO STA 118+50.00	6,788	5091	2856	2235
PR Ditch at Re-alignment	STA 100+50.00 TO STA 101+01.57	29	22	12	10
Left EW at GR	STA 10+65.00 TO STA 11+58.80	203	152	56	96
Lt Special Ditching	STA 163+46.69 TO STA 305+56.13	5	4	36	-32
Right EW at GR	STA 174+00.00 TO STA 366+87.23	377	283	30	253
Rt Special Ditching	STA 162+95.90 TO STA 305+54.33	13	10	97	-87
	STA 167+63.77 TO STA 302+20.00	312	234	21	213
		7,727		3109	2687
SHRINKAGE = 25%	USE	7,730			

20200500		EARTH EXCAVATION (WIDENING)			
LOCATION		EXCAVATION	EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
		CU YD	CU YD	CU YD	CU YD
Left	LT STA 163+82.28 TO STA 305+23.46	418	314	0	314
Right	RT STA 163+32.98 TO STA 305+00.00	378	284	0	284
		796			598
SHRINKAGE = 25%	USE	800			

TOTAL BALANCE WASTE 3,285

X2501000		SEEDING, CLASS 2 (SPECIAL)		ACRE
LOCATION				
LT STA 163+46.69	TO STA 166+60.88			0.04
RT STA 163+85.00	TO STA 165+83.00			0.05
RT STA 167+70.00	TO STA 172+19.00			0.1
RT STA 247+10.88	TO STA 249+09.00			0.02
LT STA 247+36.00	TO STA 248+85.00			0.01
LT STA 249+61.00	TO STA 251+52.49			0.02
RT STA 249+84.00	TO STA 251+38.22			0.03
RT STA 165+12.00	TO STA 168+24.00			0.09
LT STA 174+00.00	TO STA 177+00.00			0.07
LT STA 174+00.00	TO STA 175+40.00			0.04
LT STA 180+70.00	TO STA 182+48.00			0.04
LT STA 191+00.00	TO STA 194+70.00			0.12
LT STA 199+00.00	TO STA 202+43.00			0.05
RT STA 200+80.00	TO STA 202+00.00			0.03
LT STA 213+57.00	TO STA 215+25.00			0.05
LT STA 253+00.00	TO STA 257+35.00			0.12
RT STA 253+00.00	TO STA 257+40.00			0.11
RT STA 274+48.00	TO STA 277+75.00			0.1
LT STA 297+34.00	TO STA 301+69.00			0.12
RT STA 297+65.00	TO STA 302+22.00			0.15
RT STA 302+19.81	TO STA 305+41.80			0.04
LT STA 302+52.83	TO STA 305+56.13			0.02
LT STA 339+15.00	TO STA 340+69.00			0.03
LT STA 361+44.00	TO STA 366+87.00			0.19
LT STA 100+00.00	TO STA 119+00.00			4.09
RT STA 100+00.00	TO STA 116+52.00			0.84
RT STA 116+72.00	TO STA 118+18.00			0.04
RT STA 200+00.00	TO STA 201+48.00			0.03
LT STA 200+50.00	TO STA 201+01.00			0.01
TOTAL				6.65
USE				6.75

28000500		INLET AND PIPE PROTECTION	
LOCATION		EACH	
RT STA 167+64		1	
RT STA 170+12		1	
RT STA 171+74		1	
RT STA 167+43		1	
LT STA 174+72		1	
RT STA 174+54		1	
LT STA 181+14		1	
LT STA 193+32		1	
LT STA 194+09		1	
LT STA 201+66		1	
RT STA 201+68		1	
LT STA 214+80		1	
LT STA 256+69		1	
RT STA 256+88		1	
RT STA 275+16		1	
LT STA 297+90		1	
RT STA 298+20		1	
LT STA 339+72		1	
LT STA 340+68		1	
LT STA 366+04		1	
LT STA 366+40		1	
LT STA 113+74		1	
RT STA 116+34		1	
TOTAL		23	

28000400		PERIMETER EROSION BARRIER	
LOCATION		FOOT	
CH 14 RE-ALIGNMENT			
RT STA 110+18.65	TO STA 116+23.65	605	
STATE LINE ROAD			
RT STA 200+53.50	TO STA 200+96.50	43	
TOTAL		648	

28000250			TEMPORARY EROSION CONTROL SEEDING		
LOCATION		POUND			
LT STA 163+46.69	TO STA 166+60.88	4			
RT STA 163+85.00	TO STA 165+83.00	5			
RT STA 167+70.00	TO STA 172+19.00	10			
RT STA 247+10.88	TO STA 249+09.00	2			
LT STA 247+36.00	TO STA 248+85.00	1			
LT STA 249+61.00	TO STA 251+52.49	2			
RT STA 249+84.00	TO STA 251+38.22	3			
RT STA 165+12.00	TO STA 168+24.00	9			
LT STA 174+00.00	TO STA 177+00.00	7			
LT STA 174+00.00	TO STA 175+40.00	4			
LT STA 180+70.00	TO STA 182+48.00	4			
LT STA 191+00.00	TO STA 194+70.00	12			
LT STA 199+00.00	TO STA 202+43.00	5			
RT STA 200+80.00	TO STA 202+00.00	3			
LT STA 213+57.00	TO STA 215+25.00	5			
LT STA 253+00.00	TO STA 257+35.00	12			
RT STA 253+00.00	TO STA 257+40.00	11			
RT STA 274+48.00	TO STA 277+75.00	10			
LT STA 297+34.00	TO STA 301+69.00	12			
RT STA 297+65.00	TO STA 302+22.00	16			
RT STA 302+19.81	TO STA 305+41.80	4			
LT STA 302+52.83	TO STA 305+56.13	2			
LT STA 339+15.00	TO STA 340+69.00	3			
LT STA 361+44.00	TO STA 366+87.00	19			
LT STA 100+00.00	TO STA 119+00.00	409			
RT STA 100+00.00	TO STA 116+52.00	84			
RT STA 116+72.00	TO STA 118+18.00	4			
RT STA 200+00.00	TO STA 101+48.00	3			
LT STA 200+50.00	TO STA 101+01.00	1			
TOTAL		666			

28000305		TEMPORARY DITCH CHECKS	
LOCATION		FOOT	
RT STA 165+13.00		8	
LT STA 177+00.00		8	
LT STA 182+48.30		8	
LT STA 191+00.00		8	
LT STA 199+00.00		8	
LT STA 213+77.00		8	
LT STA 253+00.00		8	
RT STA 253+00.00		8	
RT STA 277+75.00		8	
LT STA 301+75.00		8	
RT STA 302+20.00		8	
LT STA 361+38.00		8	
LT STA 108+00.00		8	
RT STA 108+00.00		8	
LT STA 112+00.00		8	
RT STA 112+00.00		8	
LT STA 115+25.00		8	
RT STA 115+25.00		8	
LT STA 201+00.00		8	
RT STA 201+42.00		8	
TOTAL		160	

44000100			PAVEMENT REMOVAL	
LOCATION		SQ YD		
STA 387+47.75	TO STA 406+34.51	4,301.44		
USE		4,301.44		

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PLOT DATE = 10/7/2021

DESIGNED - TEC  
DRAWN - TEC  
CHECKED - CGF  
DATE - 10-6-2021  
REVISED -  
REVISED -  
REVISED -  
REVISED -

**VERMILION COUNTY  
CH 14 IMPROVEMENT**

**SCEDULE OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	7
CONTRACT NO. 91610				
ILLINOIS FED. AID PROJECT				

35100100 AGGREGATE BASE COURSE, TYPE A

LOCATION	THICKNESS	WIDTH	TON
CH 14			
STA 100+00.00 TO STA 118+18.78	8"	26.00	2,393.6
State Line Road			
STA 200+13.00 TO STA 201+01.57	8"	24.00 & Varies	103.1
TOTAL			2,496.7
USE			2,497

40200800 AGGREGATE SURFACE COURSE, TYPE B

LOCATION	TYPE	THICKNESS INCH	SQ FT	TON
RT STA 169+97	PE - AT CULVERT REPLACEMENT ONLY	6	57	1.90
RT STA 171+41	PE - AT CULVERT REPLACEMENT ONLY	6	45	1.50
LT STA 214+49	PE - APRON ONLY	3	53	0.88
LT STA 216+50	PE - APRON ONLY	3	82	1.37
LT STA 166+33	PE - APRON ONLY	3	53	0.88
RT STA 174+74	CE - APRON ONLY	3	133	2.22
RT STA 174+74	CE - AT CULVERT REPLACEMENT ONLY	6	84	2.80
LT STA 193+17	PE - AT CULVERT REPLACEMENT ONLY	6	52	1.73
LT STA 193+93	PE - AT CULVERT REPLACEMENT ONLY	6	53	1.77
LT STA 212+81	PE - APRON ONLY	3	89	1.48
LT STA 298+13	FE - AT CULVERT REPLACEMENT ONLY	6	172	5.73
LT STA 365+89	PE - AT CULVERT REPLACEMENT ONLY	6	42	1.40
LT STA 366+25	PE - AT CULVERT REPLACEMENT ONLY	6	50	1.67
LT STA 114+00	FE - NEW ENTRANCE	6	707	23.57
LT STA 118+07	FE - NEW ENTRANCE	6	193	6.43
TOTAL				55.33
USE				55

HMA SHOULDER SCHEDULE

LOCATION	WIDTH FOOT	48203021 HMA SHOULDERS 6"	64200108 SHOULDER RUMBLE STRIPS, 8"
LT STA 209+29.11 TO STA 211+37.97	4.00	92.83	208.86
LT STA 211+93.67 TO STA 218+21.40	4.00	278.99	588.63
LT STA 143+80.13 TO STA 155+11.60	4.00	502.88	1,131.47
LT STA 165+87.24 TO STA 178+05.70	4.00	541.54	1,179.90
LT STA 207+87.16 TO STA 219+57.77	4.00	520.27	1,170.61
RT STA 209+29.11 TO STA 218+21.40	4.00	396.57	892.29
RT STA 143+80.13 TO STA 155+11.60	4.00	502.88	1,131.47
RT STA 165+87.24 TO STA 178+05.70	4.00	541.54	1,121.30
RT STA 207+87.16 TO STA 219+57.77	4.00	520.27	1,107.91
SUBTOTAL		3,897.76	8532.44
USE		3,898	8,532

40200800 AGGREGATE WEDGE SHOULDER, TYPE B

LOCATION	DEPTH INCH	WIDTH	TON
LT STA 100+00.00 TO STA 118+18.78	WEDGE	2.00	48.50
RT STA 100+00.00 TO STA 116+33.13	WEDGE	2.00	43.55
RT STA 116+91.64 TO STA 118+18.78	WEDGE	2.00	3.39
TOTAL			95.44
USE			95

40600275 BITUMINOUS MATERIALS (PRIME COAT)

LOCATION	WIDTH	LB/SQ FT	POUND
CH 14			
STA 100+00.00 TO STA 118+18.78	23.00	0.250	10,457.99
TOTAL			10,457.99
USE			10,458

\* USE 1 APPLICATION ON AGG SUB-BASE

40600290 BITUMINOUS MATERIALS (TACK COAT)

LOCATION	WIDTH	LB/SQ FT	POUND
CH 14			
STA 100+00.00 TO STA 118+18.78	22.00	0.025	1,000.33
TOTAL			1,000.33
USE			1,000

\* USE 1 APPLICATION ON BINDER

40603080 HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50

LOCATION	THICKNESS INCH	AREA SQ YD	TON
CH 14			
STA 100+00.00 TO STA 118+18.78	2.50	4546.95	636.57
TOTAL			636.57
USE			637

40604050 HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50

LOCATION	THICKNESS INCH	AREA SQ YD	TON
CH 14			
STA 100+00.00 TO STA 118+18.78	1.50	4546.95	381.94
TOTAL			381.94
USE			382

40800050 INCIDENTAL HOT-MIX ASPHALT SURFACING

LOCATION	TYPE	THICKNESS INCH	SQ FT	TON
RT STA 170+26	PE	6	440	16.43
RT STA 201+41	SR	8	137	6.82
RT STA 256+57	SR	8	107	5.33
RT STA 298+45	SR	8	113	5.62
TOTAL				34.20
USE				34

48101200 AGGREGATE SHOULDERS, TYPE B

LOCATION	DEPTH INCH	WIDTH	TON
LT STA 163+82.28 TO STA 166+27.27	6	7.25	59.21
RT STA 163+32.98 TO STA 165+77.99	6	7.25	59.21
LT STA 247+72.59 TO STA 248+90.17	6	7.25	28.42
RT STA 247+55.80 TO STA 249+06.92	6	7.25	36.52
LT STA 249+63.19 TO STA 251+07.30	6	7.25	34.83
RT STA 249+79.46 TO STA 250+90.12	6	7.25	26.74
LT STA 303+00.78 TO STA 305+23.46	6	7.25	53.81
RT STA 302+54.19 TO STA 304+86.50	6	7.25	56.14
TOTAL			354.88
USE			355

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PLOT DATE = 10/7/2021	DATE - 10-6-2021	REVISED -

**VERMILION COUNTY  
CH 14 IMPROVEMENT**

**SCEDULE OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	8
CONTRACT NO. 91610				
ILLINOIS FED. AID PROJECT				



CULVERTS	50105220 P PE CULVERT REMOVAL	50104400 CONCRETE HEADW ALL REMOVAL	542D0220 P PE CULVERTS, CLASS D TY 1 15"	542D0223 P PE CULVERTS, CLASS D TY 1 18"	54001001 BOX CULVERT END SECTDNS, CULVERT NO. 1	54010602 PRECAST CONCRETE BOX CULVERTS 6'X 2'	X1200050 BOX CULVERT REMOVAL	X2810208 STONE R PRAP, CLASS A4 (SPECIAL)
LOCATION	FOOT	EACH	FOOT	FOOT	EACH	FOOT	FOOT	TON
RT STA 169+97	18	2	30					
RT STA 171+41	18	2	30					
RT STA 167+28	18	2	30					
RT STA 174+74	32	2	40					
LT STA 174+88	18	2	32					
LT STA 181+29	18	2	30					
LT STA 192+10	18	2	30					
LT STA 193+17	18		30					
LT STA 193+93	18	2	32					
RT STA 201+41	32	2		56				
LT STA 201+48	18	2	36					
LT STA 214+60	32	2	40					
LT STA 256+52	18	2	36					
RT STA 256+57	32	2		48				
RT STA 275+31	18	2	32					
LT STA 298+13	38	1	50					
RT STA 298+36	32	2	50					
LT STA 339+88	18	2	32					
LT STA 365+89	18	2	30					
LT STA 366+25	18	2	30					
STA 392+85.66							32	
LT STA 398+02	24							
STA 403+70.00							40	
LT STA 404+23	36							
RT STA 404+60	26							
LT STA 114+00			52					
STA 116+28.00					2	44		41
STA 117+00.00	60							
LT STA 118+07			42					
TOTAL	596	37	714	104	2	44	72	41

66600105 FURNISHING AND ERECTING RIGHT OF WAY MARKERS	
LOCATION	EACH
CH 14	
RT STA 100+00.00	1
RT STA 103+00.00	1
RT STA 107+00.00	1
RT STA 108+50.00	1
RT STA 110+18.65	1
RT STA 116+00.00	1
RT STA 116+24.10	1
STATE LINE RD	
RT STA 200+96.50	1
TOTAL	8

**GUARDRAIL**

SPBGR		63200310 GUARDRAIL REMOVAL	63000001 STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	63000370 LONG-SPAN GUARDRAIL OVER CULVERT, 25 FT SPAN	63100167 TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	63100075 TRAFFIC BARRIER TERMINAL, TYPE 5A	72501000 TERMINAL MARKER - DIRECT APPLIED	78200005 GUARDRAIL REFLECTORS, TYPE A
LOCATION		FEET	FEET	FEET	EACH	EACH	EACH	EACH
LT STA 163+42.98	TO STA 165+67.98		75.00	50	2		2	4
RT STA 163+92.28	TO STA 166+17.28		75.00	50	2		2	4
LT STA 247+82.61	TO STA 248+83.36	100	37.50		1	1	1	4
RT STA 247+65.79	TO STA 249+04.04	100	75.00		1	1	1	4
LT STA 249+58.29	TO STA 250+96.54	100	75.00		1	1	1	4
RT STA 249+78.97	TO STA 250+79.72	100	37.50		1	1	1	4
LT STA 303+00.87	TO STA 305+13.61		62.50	50	2		2	4
RT STA 302+64.12	TO STA 304+76.36		62.5	50	2		2	4
RT STA 403+32.00	TO STA 404+55.00	100						
		500	500	200	12	4	12	32

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PLOT DATE = 10/7/2021	DATE - 10-6-2021	REVISED -

**VERMILION COUNTY  
CH 14 IMPROVEMENT**

**SCEDULE OF QUANTITIES**

SCALE:	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	9
			CONTRACT NO. 91610	
ILLINOIS FED. AID PROJECT				

**SIGNS**

STATION	FACING	OFFSET	SIGN	SIGN DESIGNATION	SIGN SIZE (in.)	72000100 SIGN PANEL TYPE 1 (SQ.FT)	72000200 SIGN PANEL TYPE 2 (SQ.FT)	NO. OF POSTS	TELESCOPING STEEL SIGN SUPPORT (Foot)
CH 14									
116+65	SOUTH	35 LT	BI DIRECTIONAL ARROW	W1-7	60x30		12.5	2	28
STATE LINE RD									
100+37	SOUTH	20 RT	STOP	R1-1	36x36	9		1	14
<b>TOTAL</b>						9	13		42

X7240205 REMOVE SIGN COMPLETE

LOCATION	EACH
RT STA 387+98	1
RT STA 388+87	1
RT STA 392+85	1
LT STA 392+95	1
RT STA 397+70	1
LT STA 397+71	1
RT STA 399+35	1
LT STA 399+36	1
RT STA 400+88	1
RT STA 401+55	1
RT STA 402+11	1
RT STA 402+69	1
RT STA 403+38	1
RT STA 403+41	1
RT STA 403+52	1
RT STA 404+16	1
RT STA 404+31	1
RT STA 404+38	1
LT STA 404+00	1
<b>TOTAL</b>	19

78001100 PAINT PAVEMENT MARKING - LETTERS AND SYMBOLS

LOCATION	TOTAL SQ FT
RT STA 226+05.00 RAILROAD "R"	54
RT STA 226+05.00 RAILROAD "X"	3.6
LT STA 236+55.00 RAILROAD "R"	54
LT STA 236+55.00 RAILROAD "X"	3.6
<b>TOTAL</b>	115

78001110 PAINT PAVEMENT MARKING - LINE 4"

LOCATION	YELLOW FOOT	WHITE FOOT	TOTAL FOOT
YELLOW SKIP DASH			
CL STA 158+07.93 STA 264+58.38	2670		2670
CL STA 141+74.00 STA 387+47.75	6150		6150
CL STA 100+00.00 STA 118+18.78	460		460
SOLID WHITE EDGE LINE			
RT STA 158+07.93 STA 264+58.38		10,651	10,651
RT STA 141+74.00 STA 387+47.75		24,574	24,574
RT STA 100+00.00 STA 118+18.78		1,819	1,819
LT STA 158+07.93 STA 264+58.38		10,651	10,651
LT STA 141+74.00 STA 387+47.75		24,574	24,574
LT STA 100+00.00 STA 118+18.78		1,819	1,819
<b>TOTAL</b>	9,280	74,088	83,368

78001180 PAINT PAVEMENT MARKING - LINE 24"

LOCATION	TOTAL FOOT
SOLID WHITE STOP BAR	
RT STA 231+10.00	10
RT STA 230+60.00	10
LT STA 231+55.00	10
LT STA 232+05.00	10
<b>TOTAL</b>	40

SHORT-TERM PAVEMENT MARKING	NO. OF APPLICATIONS	SHORT-TERM PAVEMENT MARKING REMOVAL	
		70300100 FOOT	70300150 SQ FT
YELLOW SKIP DASH			
CL STA 100+00.00 STA 118+78.78	2	376	63
<b>TOTAL</b>		376	63

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PLOT SCALE = 100.0000 ' / in.	CHECKED - CGF	REVISED -
PLOT DATE = 10/7/2021	DATE - 10-6-2021	REVISED -

**VERMILION COUNTY  
CH 14 IMPROVEMENT**

**SCEDULE OF QUANTITIES**

SCALE: SHEET OF SHEETS STA. TO STA.

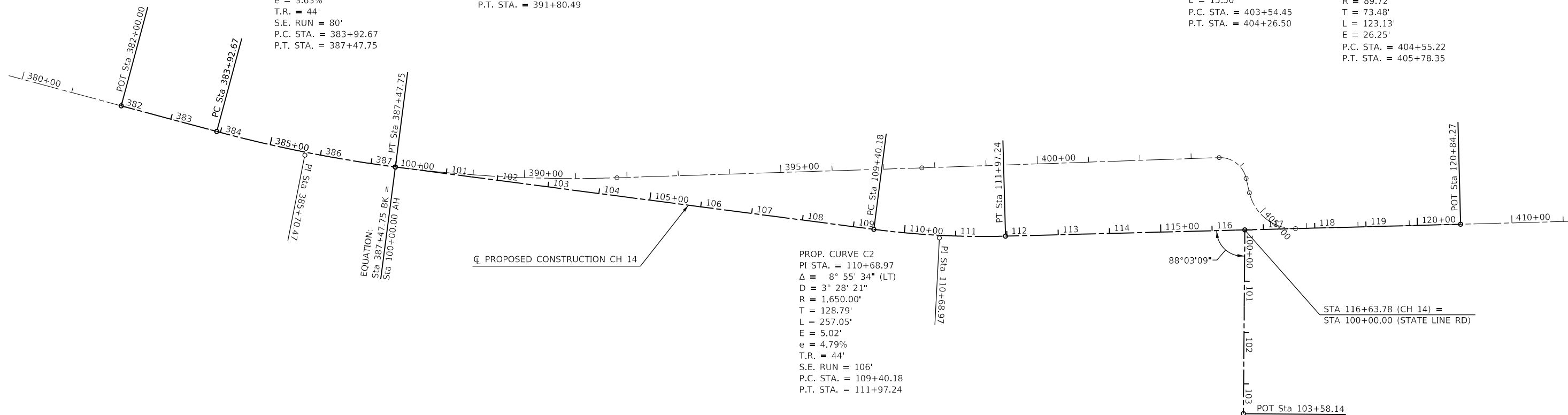
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	10
CONTRACT NO. 91610				
		ILLINOIS	FED. AID PROJECT	

PROP. CURVE C1  
 PI STA. = 385+70.47  
 $\Delta = 7^\circ 36' 50''$  (LT)  
 D = 2° 08' 39"  
 R = 2,672.05'  
 T = 177.80'  
 L = 355.08'  
 E = 5.91'  
 e = 3.63%  
 T.R. = 44'  
 S.E. RUN = 80'  
 P.C. STA. = 383+92.67  
 P.T. STA. = 387+47.75

EXIST. CURVE EXCRV10  
 PI STA. = 387+89.46  
 $\Delta = 16^\circ 53' 34''$  (LT)  
 D = 2° 08' 39"  
 R = 2,672.05'  
 T = 396.79'  
 L = 787.82'  
 E = 29.30'  
 P.C. STA. = 383+92.67  
 P.T. STA. = 391+80.49

EXIST. CURVE EXCRV11  
 PI STA. = 403+97.55  
 $\Delta = 79^\circ 07' 01''$  (RT)  
 D = 109° 48' 46"  
 R = 52.18'  
 T = 43.10'  
 L = 72.05'  
 E = 15.50'  
 P.C. STA. = 403+54.45  
 P.T. STA. = 404+26.50

EXIST. CURVE EXCRV12  
 PI STA. = 405+28.70  
 $\Delta = 78^\circ 38' 07''$  (LT)  
 D = 63° 51' 42"  
 R = 89.72'  
 T = 73.48'  
 L = 123.13'  
 E = 26.25'  
 P.C. STA. = 404+55.22  
 P.T. STA. = 405+78.35



PROP. CURVE C2  
 PI STA. = 110+68.97  
 $\Delta = 8^\circ 55' 34''$  (LT)  
 D = 3° 28' 21"  
 R = 1,650.00'  
 T = 128.79'  
 L = 257.05'  
 E = 5.02'  
 e = 4.79%  
 T.R. = 44'  
 S.E. RUN = 106'  
 P.C. STA. = 109+40.18  
 P.T. STA. = 111+97.24

**PROPOSED CONSTRUCTION CENTERLINE CH 14**

Element	Point Type	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction
Tangent	PI	382+00.00 R1	1,346,179.87	1,206,403.11				
Arc	PC	383+92.67 R1	1,346,129.87	1,206,589.18				
Arc	PI	385+70.47 R1	1,346,083.73	1,206,760.90	2,672.05	355.08	07°36'50"	Left
Arc	CC		1,348,710.38	1,207,282.61				
Arc	PT	100+00.00 R2	1,346,060.74	1,206,937.21				
Back Station		387-47.75 R1	1,346,060.74	1,206,937.21				
Ahead Station		100+00.00 R2						
Arc	PC	109+40.18 R2	1,345,939.21	1,207,869.50				
Arc	PI	110+68.97 R2	1,345,922.56	1,207,997.21	1,650.00	257.06	08°55'34"	Left
Arc	CC		1,347,575.37	1,208,082.79				
Arc	PT	111+97.24 R2	1,345,925.93	1,208,125.95				
Tangent	PT	111+97.24 R2	1,345,925.93	1,208,125.95				
SL Road Intersection	PI	116+63.78 R 2	1,345,938.14	1,208,592.34				
Tangent	PI	120+84.27 R2	1,345,949.14	1,209,012.68				

**PROPOSED CONSTRUCTION CENTERLINE STATE LINE RD**

Element	Point Type	Station	Northing	Easting	Radius	Length	Delta / Theta	Rotation Direction
Tangent	START	100+00.00 R1	1345938.139	1208592.337				
Tangent	END	103+58.14 R1	1345580.012	1208589.534				

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DESIGNED - TEC  
 DRAWN - TEC  
 CHECKED - CGF  
 DATE - 10-6-2021

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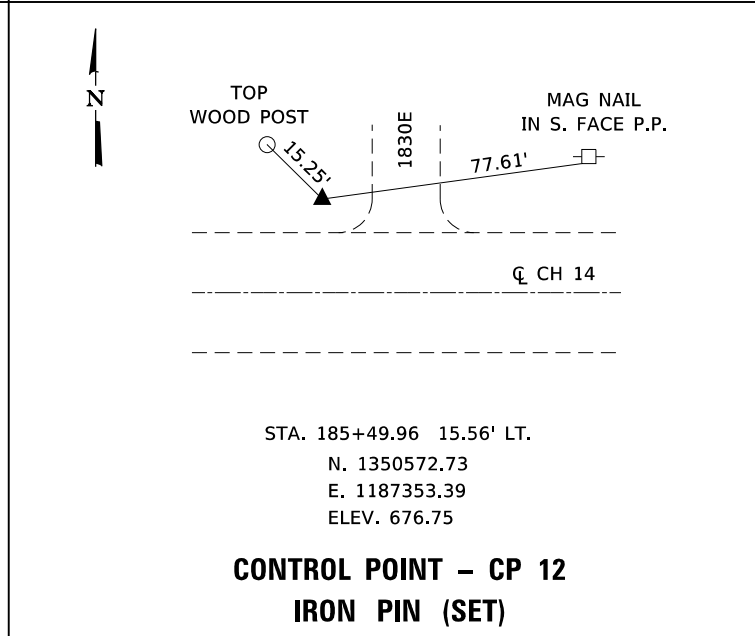
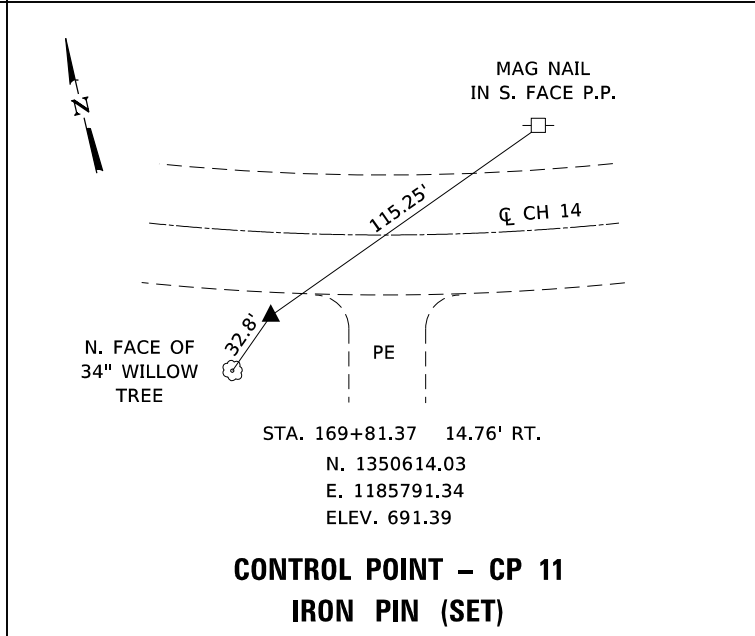
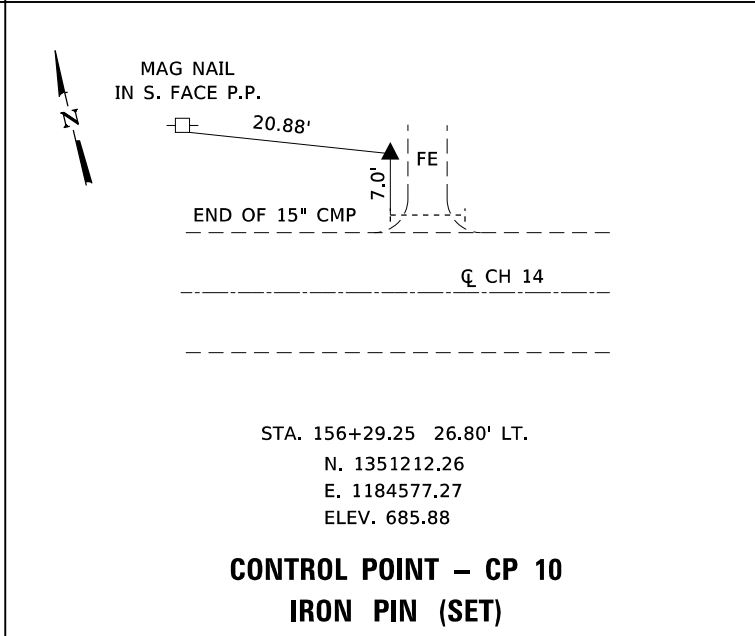
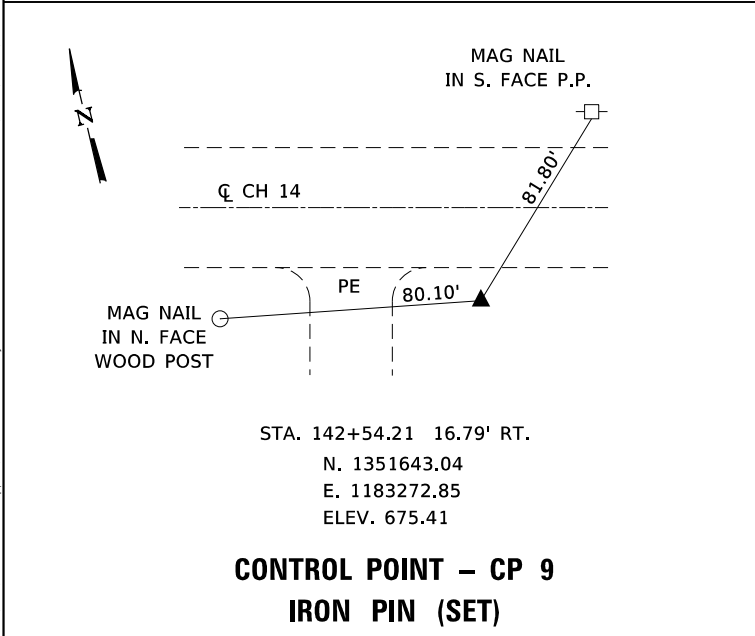
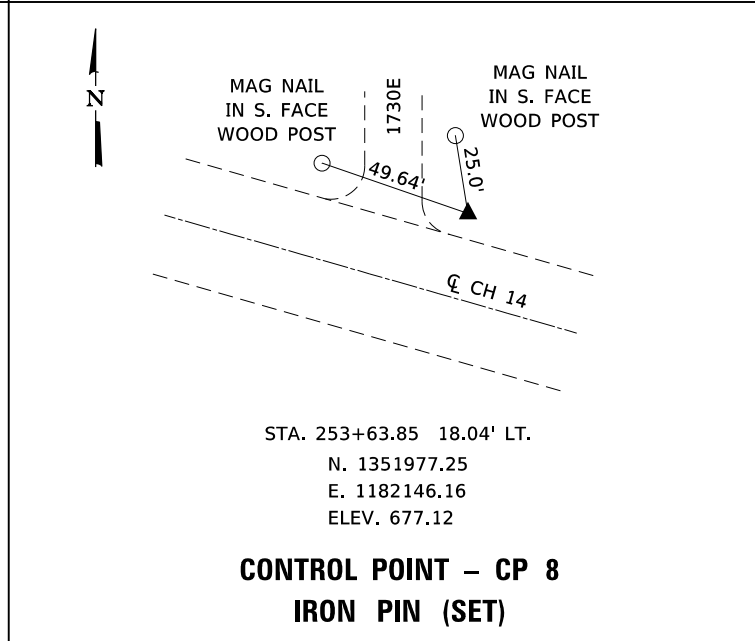
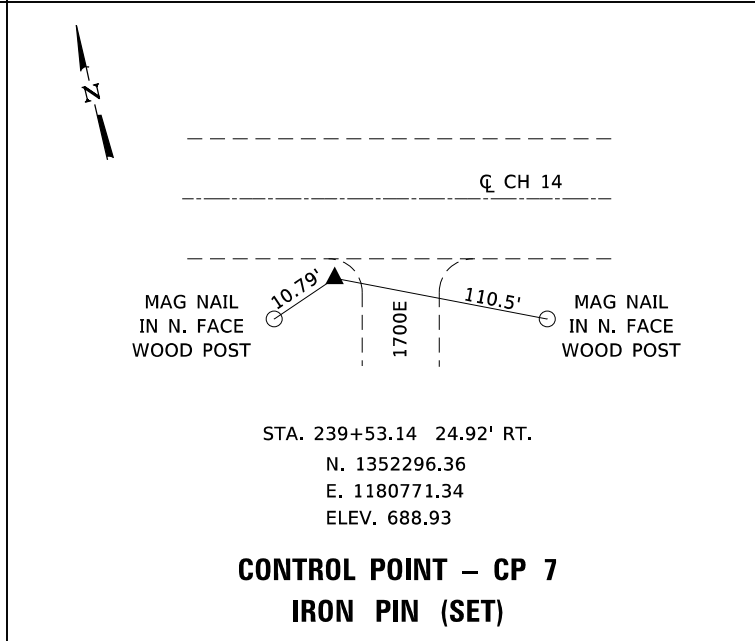
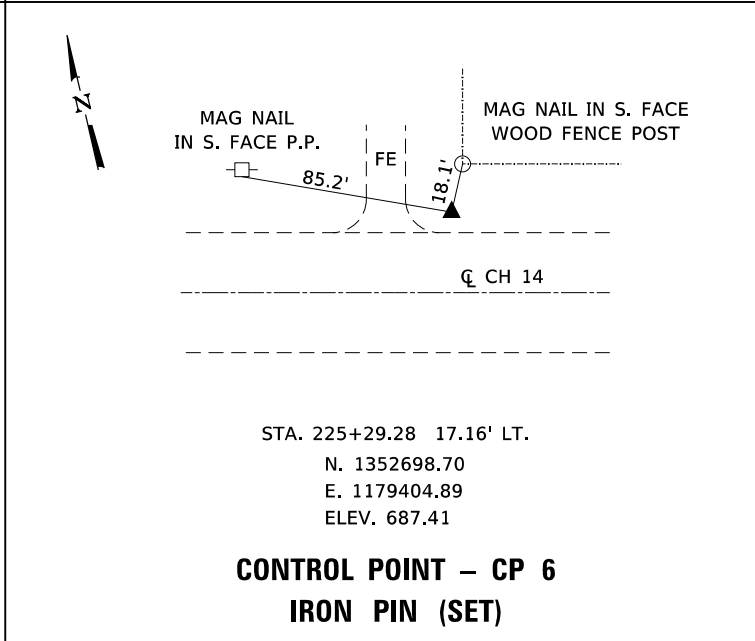
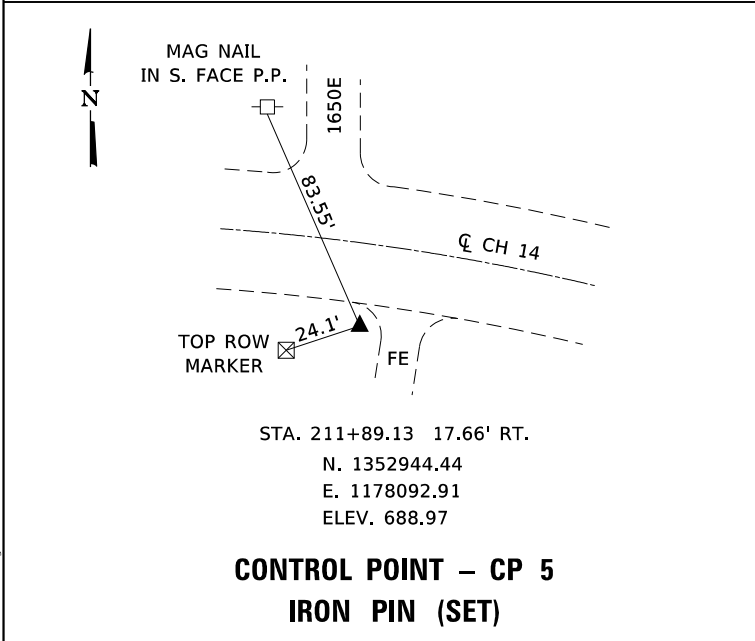
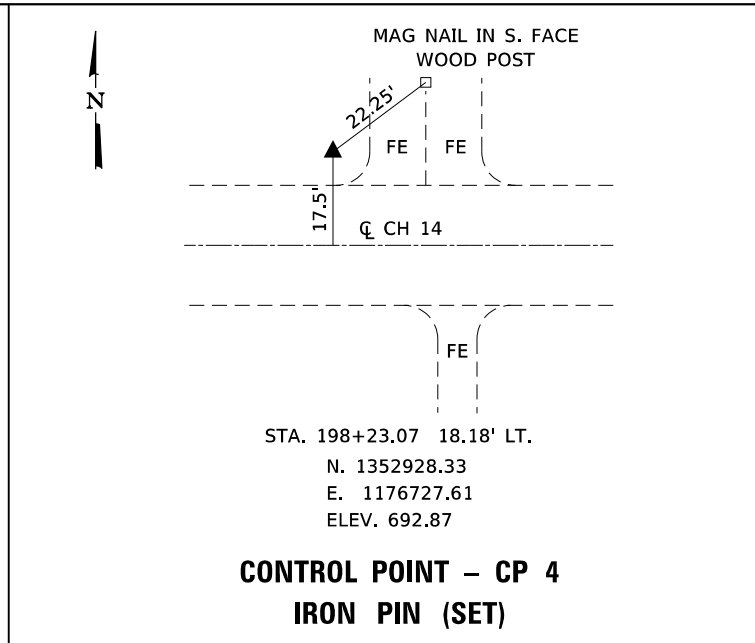
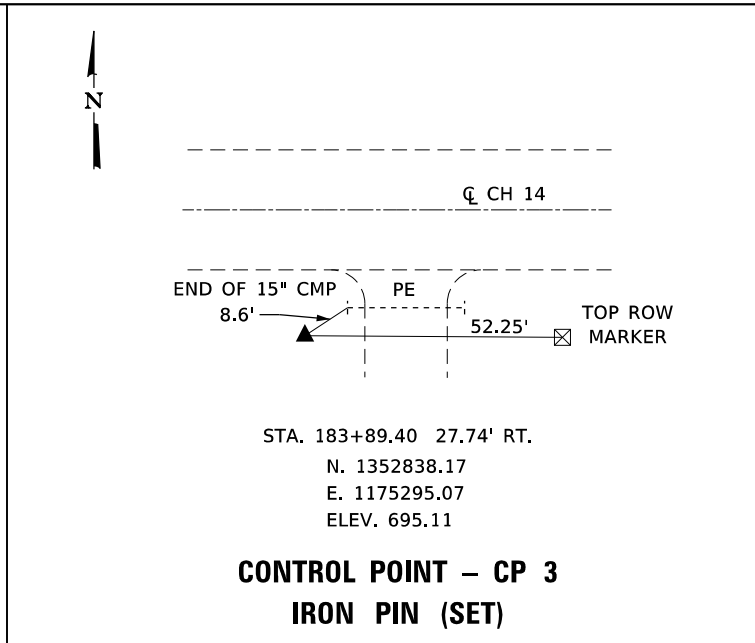
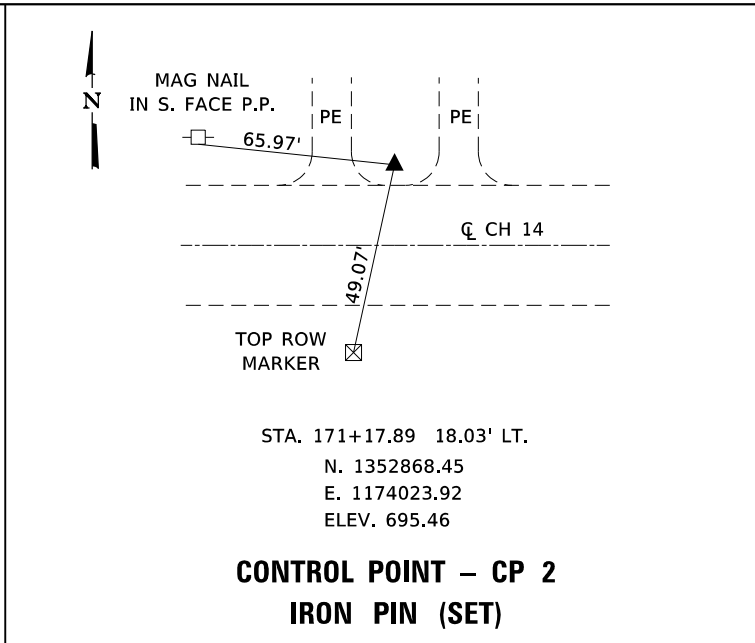
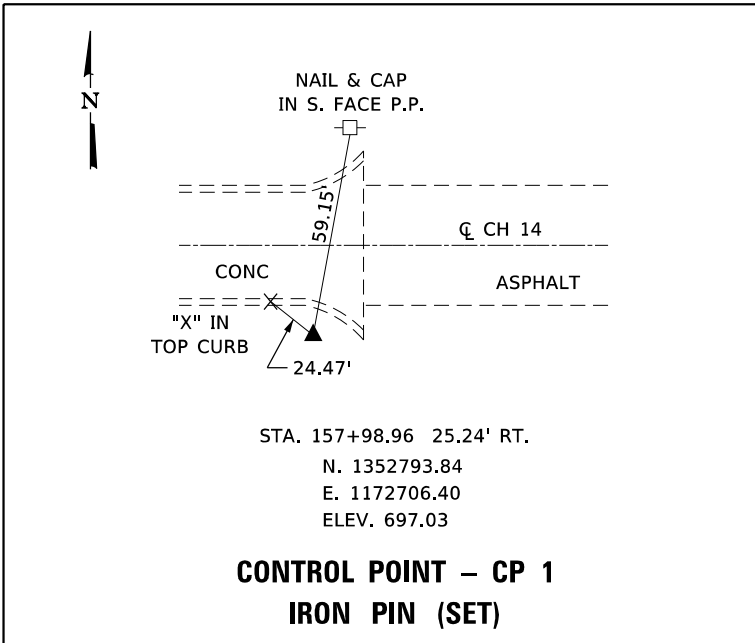
**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**ALIGNMENT, CROSS TIES,  
 AND BENCHMARKS**

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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	11
CONTRACT NO. 91610				
ILLINOIS		FED. AID PROJECT		

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 PLOT DATE = 10/7/2021

DESIGNED - TEC  
 DRAWN - SJS  
 CHECKED - CGF  
 DATE - 10-6-2021

REVISED -  
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 REVISED -

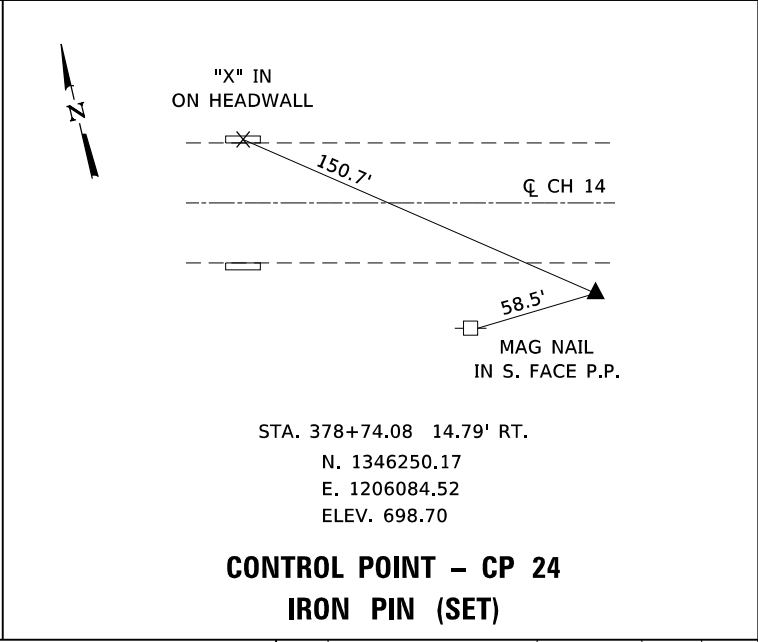
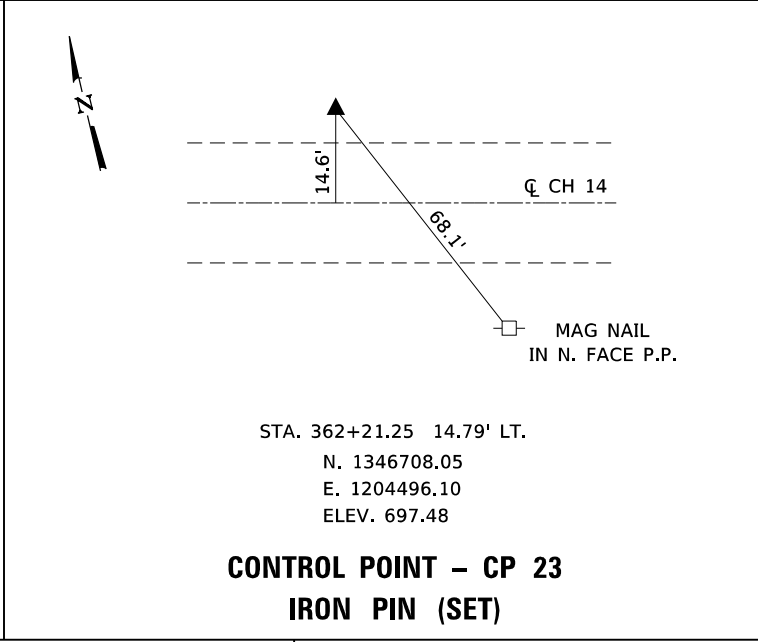
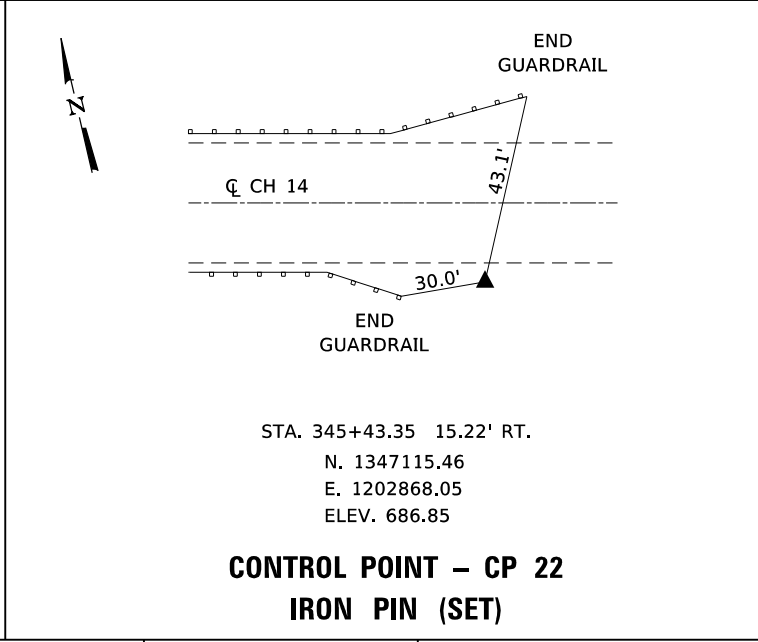
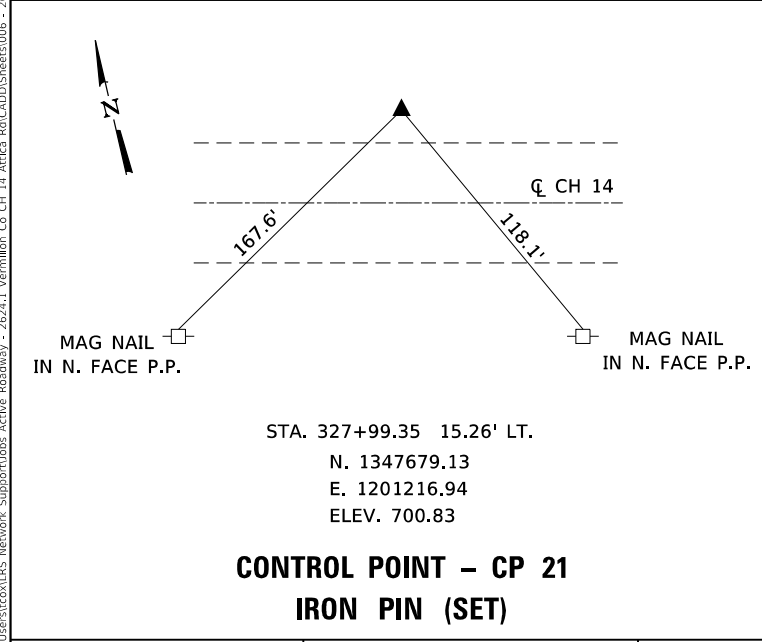
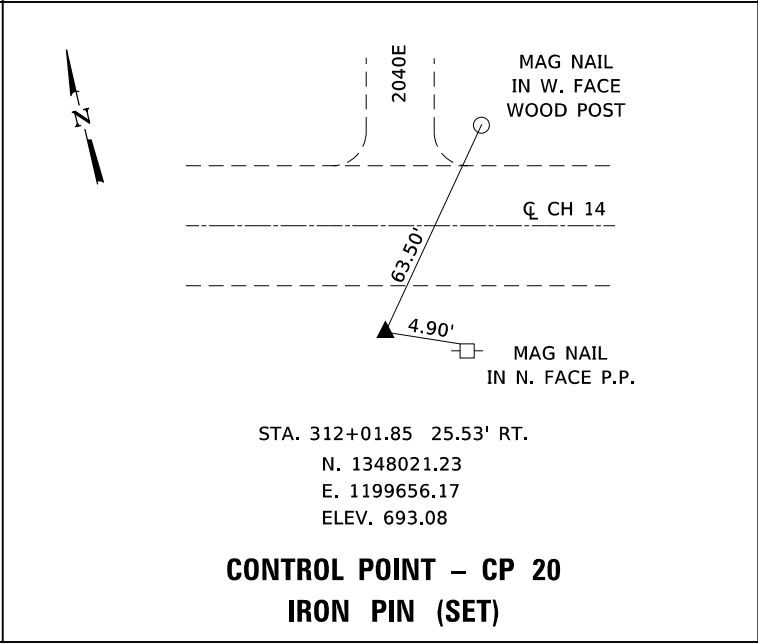
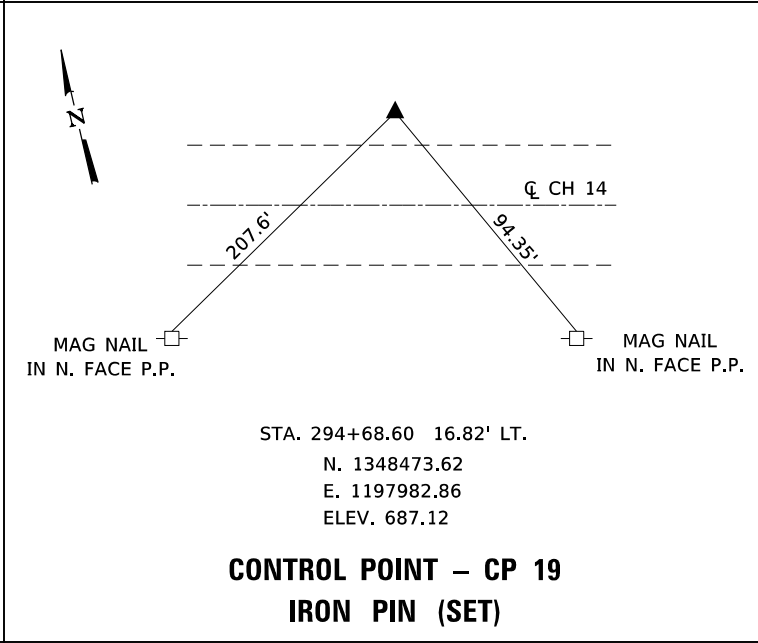
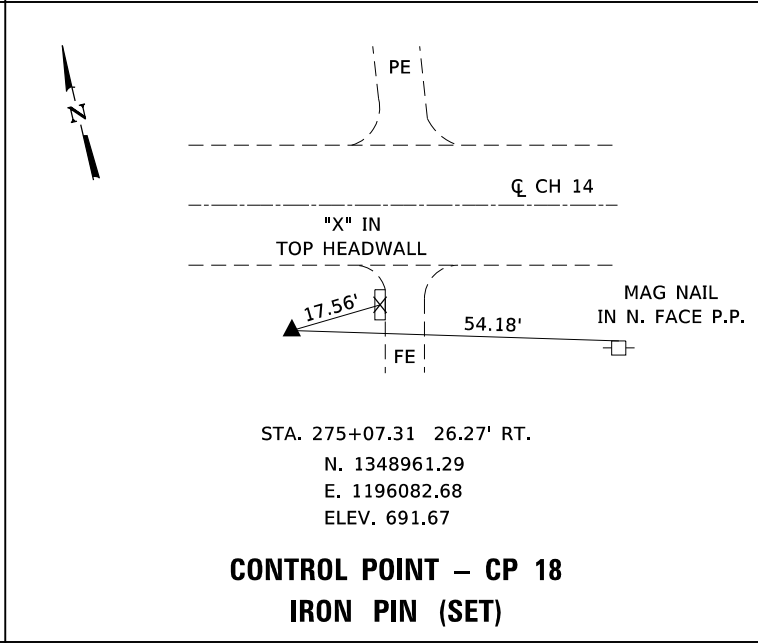
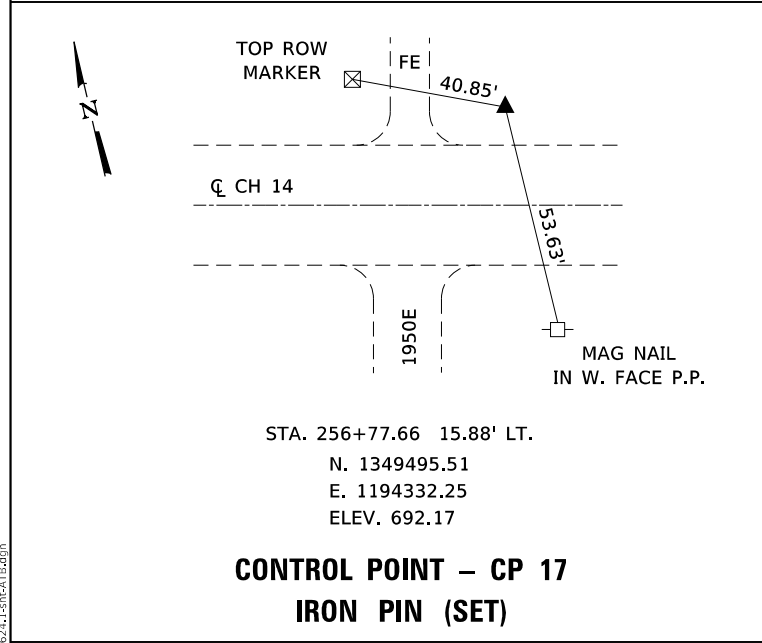
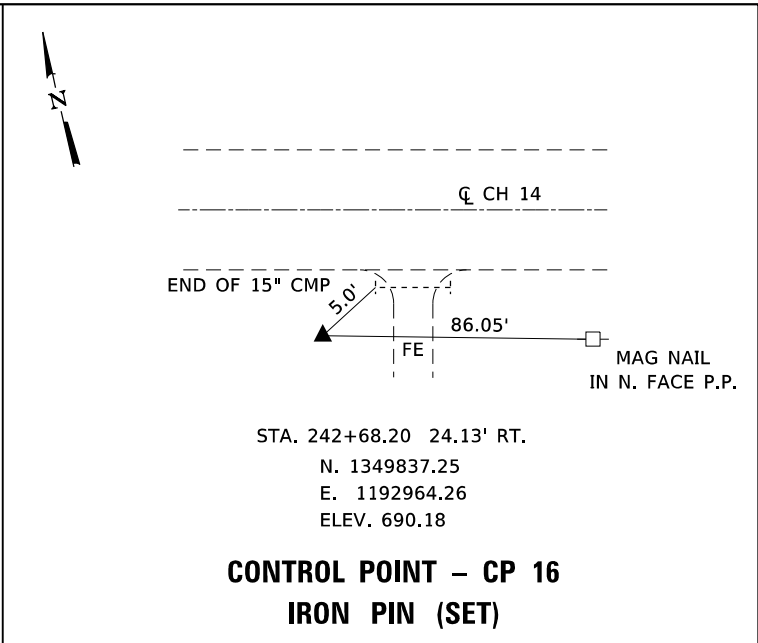
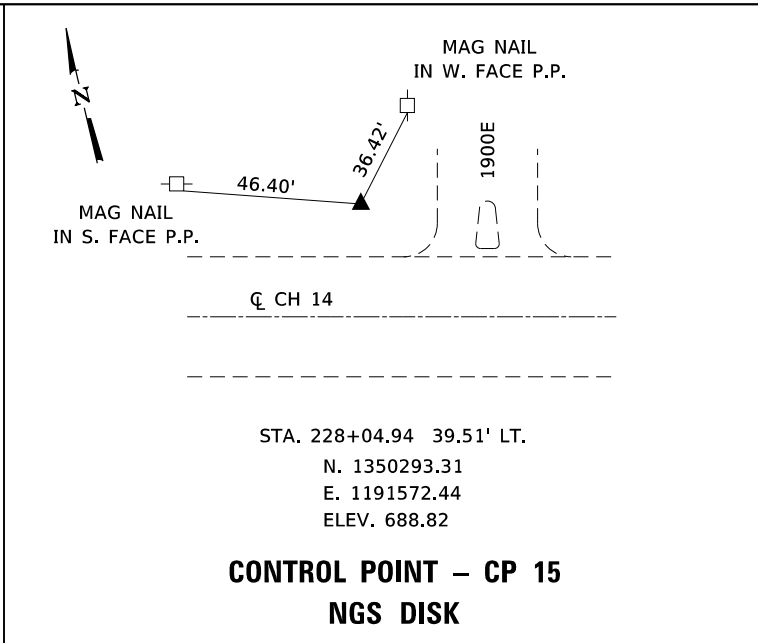
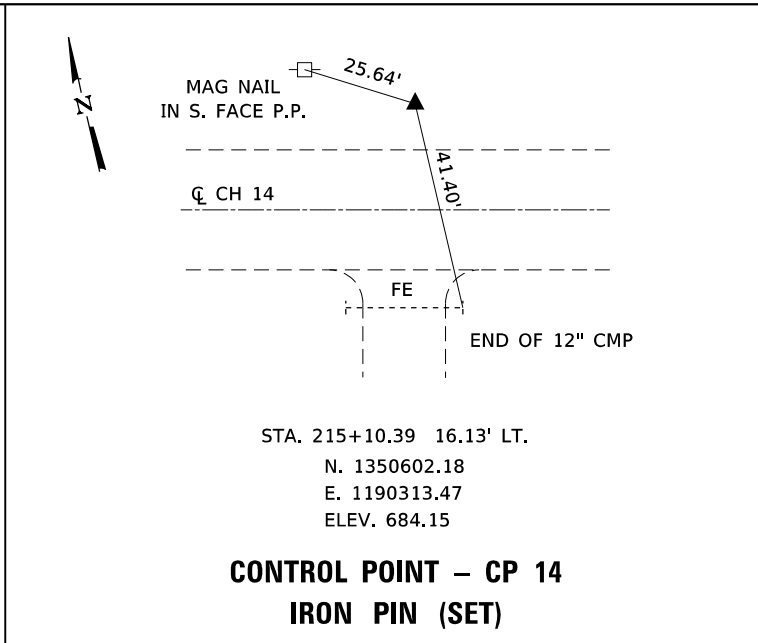
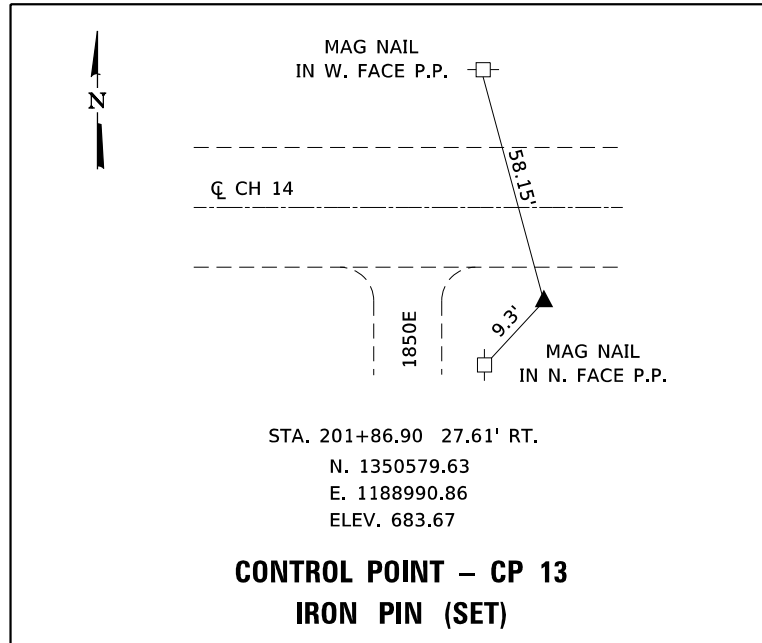
**VERMILLION COUNTY  
CH 14 IMPROVEMENT**

**ALIGNMENT, CROSS TIES,  
AND BENCHMARKS**

SCALE: NTS SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILLION	80	12
CONTRACT NO. 91610				
ILLINOIS FED. AID PROJECT				

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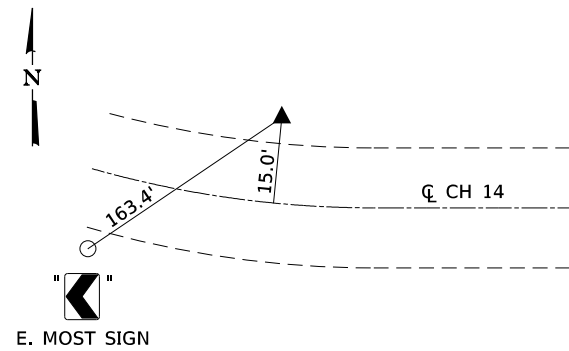
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**VERMILLION COUNTY  
 CH 14 IMPROVEMENT**

**ALIGNMENT, CROSS TIES,  
 AND BENCHMARKS**

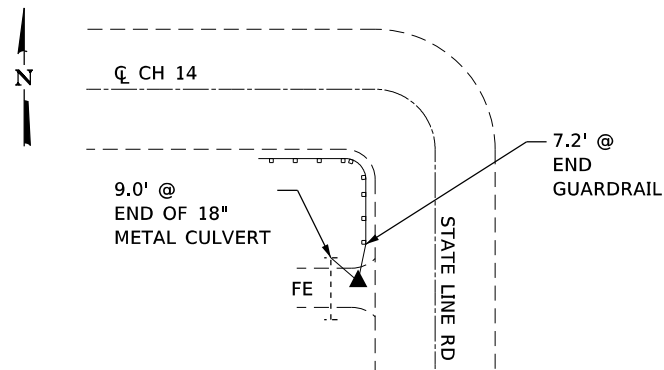
SCALE: NTS SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILLION	80	13
CONTRACT NO. 91610				
ILLINOIS FED. AID PROJECT				



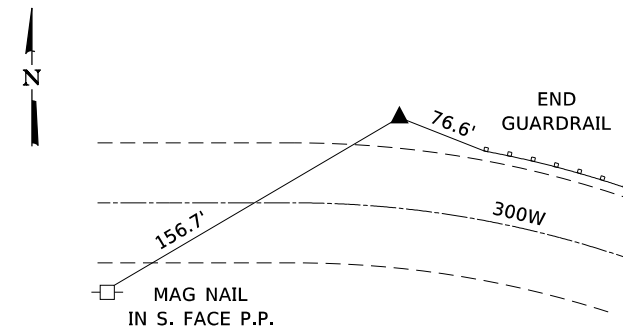
STA. 390+47.38 15.02' LT.  
 N. 1346053.75  
 E. 1207236.13  
 ELEV. 698.78

**CONTROL POINT – CP 25**  
**IRON PIN (SET)**



STA. 404+52.61 21.54' RT.  
 N. 1346008.18  
 E. 1208579.75  
 ELEV. 694.11

**CONTROL POINT – CP 26**  
**IRON PIN (SET)**



STA. 414+00.06 15.61' LT.  
 N. 1345953.49  
 E. 1209515.75  
 ELEV. 686.50

**CONTROL POINT – CP 27**  
**IRON PIN (SET)**

**BENCHMARK BM-1**

EL. 693.94  
 SURVEY SPIKE IN POWER POLE  
 STA 165+57 31.4' LT

**BENCHMARK BM-7**

EL. 676.76  
 CHISELED '□' ON N.W. WING OF BRIDGE  
 STA 248+87 16.1' LT

**BENCHMARK BM-13**

EL. 689.15  
 SURVEY SPIKE IN POWER POLE  
 STA 207+15 27.5' LT

**BENCHMARK BM-19**

EL. 681.65  
 SURVEY SPIKE IN POWER POLE  
 STA 303+66 29' RT

**BENCHMARK BM-25**

EL. 699.27  
 CHISELED '□' IN HDWL OF BOX CULVERT  
 STA 392+94 15.9' RT

**BENCHMARK BM-2**

EL. 697.56  
 SURVEY SPIKE IN POWER POLE  
 STA 177+15 29.7' LT

**BENCHMARK BM-8**

EL. 679.21  
 SURVEY SPIKE IN POWER POLE  
 STA 258+33 28.7' LT

**BENCHMARK BM-14**

EL. 685.56  
 SURVEY SPIKE IN POWER POLE  
 STA 219+93 29.8' LT

**BENCHMARK BM-20**

EL. 692.72  
 RAILROAD SPIKE IN POWER POLE  
 STA 317+96 28.6' RT

**BENCHMARK BM-26**

EL. 685.33  
 SURVEY SPIKE IN POWER POLE  
 STA 412+46 19.8' RT

**BENCHMARK BM-3**

EL. 694.08  
 SURVEY SPIKE IN POWER POLE  
 STA 188+90 30.7' LT

**BENCHMARK BM-9**

EL. 685.14  
 SURVEY SPIKE IN POWER POLE  
 STA 147+99 34.9' LT

**BENCHMARK BM-15**

EL. 691.66  
 SURVEY SPIKE IN POWER POLE  
 STA 234.85 28.5' RT

**BENCHMARK BM-21**

EL. 693.53  
 SURVEY SPIKE IN POWER POLE  
 STA 334+47 27.8' RT

**BENCHMARK BM-4**

EL. 690.54  
 SURVEY SPIKE IN POWER POLE  
 STA 211+67 27.3' RT

**BENCHMARK BM-10**

EL. 688.00  
 SURVEY SPIKE IN POWER POLE  
 STA 164+53 29' LT

**BENCHMARK BM-16**

EL. 693.37  
 SURVEY SPIKE IN POWER POLE  
 STA 249.00 29.7' RT

**BENCHMARK BM-22**

EL. 699.37  
 SURVEY SPIKE IN POWER POLE  
 STA 352+29 29.3' RT

**BENCHMARK BM-5**

EL. 687.57  
 SURVEY SPIKE IN POWER POLE  
 STA 219+33 31.9' LT

**BENCHMARK BM-11**

EL. 685.38  
 SURVEY SPIKE IN POWER POLE  
 STA 176+56 26.5' LT

**BENCHMARK BM-17**

EL. 694.49  
 SURVEY SPIKE IN POWER POLE  
 STA 265+07 30.4' RT

**BENCHMARK BM-23**

EL. 699.55  
 RAILROAD SPIKE IN POWER POLE  
 STA 367+84 27.5' RT

**BENCHMARK BM-6**

EL. 686.30  
 SURVEY SPIKE IN POWER POLE  
 STA 234+81 28.8' LT

**BENCHMARK BM-12**

EL. 679.59  
 SURVEY SPIKE IN POWER POLE  
 STA 193+74 28.2' LT

**BENCHMARK BM-18**

EL. 687.77  
 SURVEY SPIKE IN POWER POLE  
 STA 284+15 30.5' RT

**BENCHMARK BM-24**

EL. 699.79  
 SURVEY SPIKE IN POWER POLE  
 STA 383+22 31.6' RT

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 PLOT DATE = 10/7/2021

DESIGNED - TEC  
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 CHECKED - CGF  
 DATE - 10-6-2021

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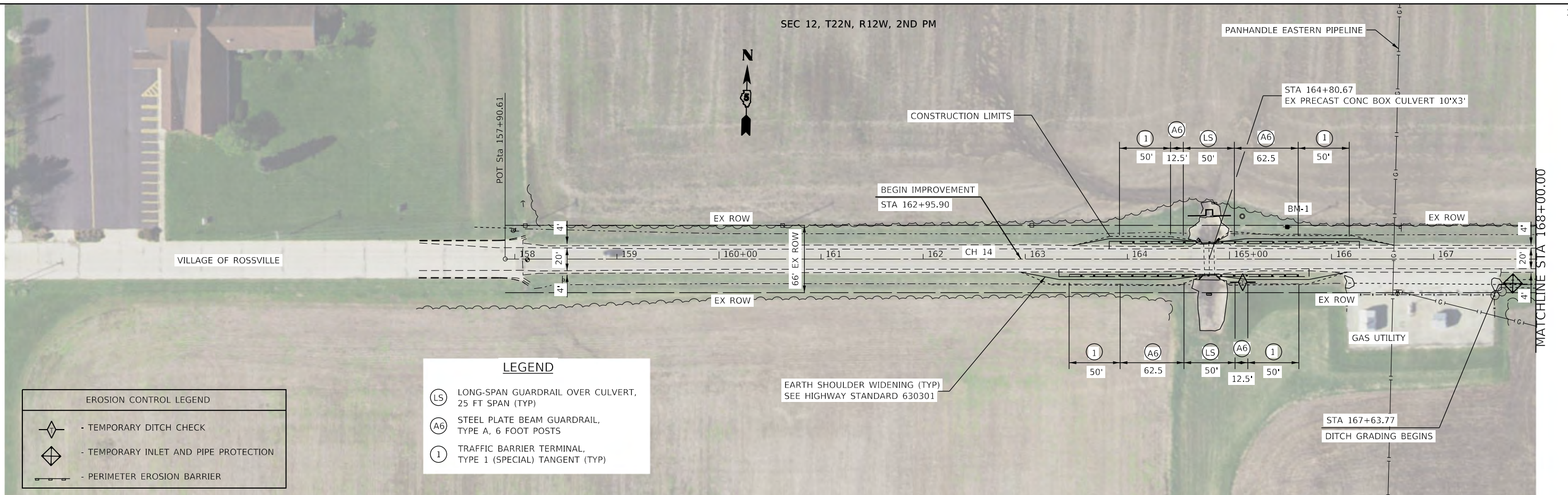
**VERMILLION COUNTY  
 CH 14 IMPROVEMENT**

**ALIGNMENT, CROSS TIES,  
 AND BENCHMARKS**

SCALE: NTS SHEET OF SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILLION	80	14
CONTRACT NO. 91610				
ILLINOIS		FED. AID PROJECT		

SEC 12, T22N, R12W, 2ND PM

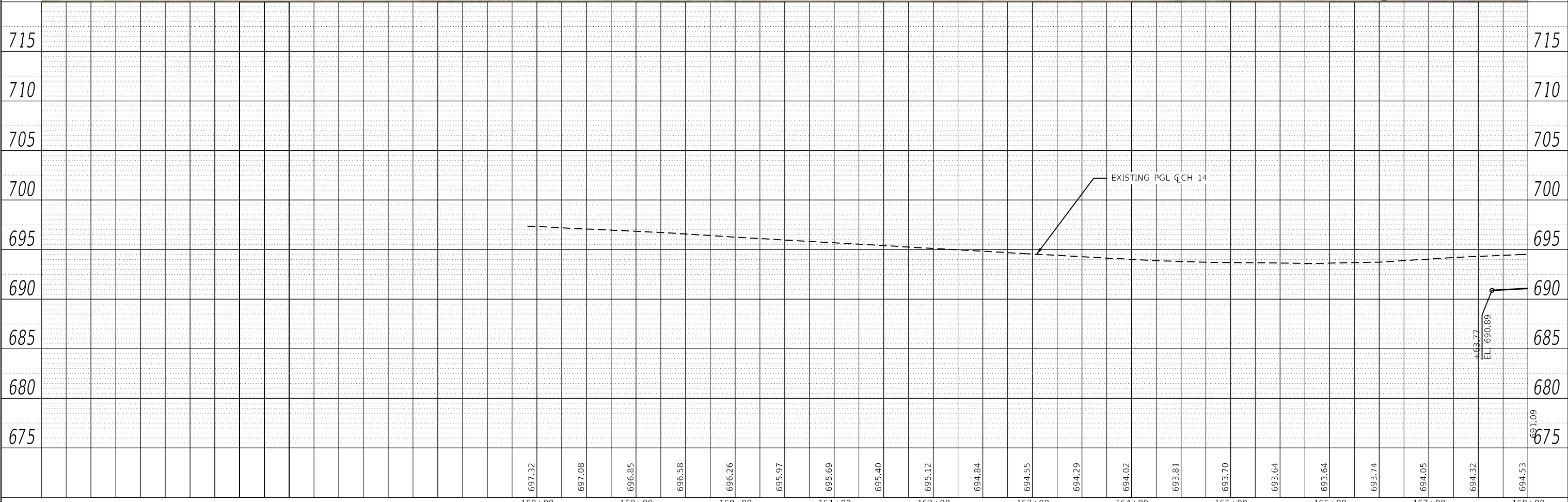


PLAN		DATE	
SURVEYED		BY	
PLOTTED			
ALIGNMENT CHECKED			
GRADE CHECKED			
STRUCTURE NOTATIONS CHECKED			
NO. _____			
CADD FILE NAME			

EROSION CONTROL LEGEND	
	- TEMPORARY DITCH CHECK
	- TEMPORARY INLET AND PIPE PROTECTION
	- PERIMETER EROSION BARRIER

LEGEND	
	LONG-SPAN GUARDRAIL OVER CULVERT, 25 FT SPAN (TYP)
	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT (TYP)

PROFILE		DATE	
SURVEYED		BY	
PLOTTED			
GRADES CHECKED			
STRUCTURE NOTATIONS CHECKED			
NO. _____			
CADD FILE NAME			



158+00	159+00	160+00	161+00	162+00	163+00	164+00	165+00	166+00	167+00	168+00
697.32	697.08	696.85	696.58	696.26	695.97	695.69	695.40	695.12	694.84	694.55
694.29	694.02	693.81	693.70	693.64	693.64	693.74	694.05	694.32	694.53	691.09

**CEC** Cummins Engineering Corporation  
Civil and Structural Engineering

JOB = 2624.1  
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DRAWN -	TEC	REVISED -	
CHECKED -	CGF	REVISED -	
DATE -	10-6-2021	REVISED -	

**VERMILION COUNTY  
CH 14 IMPROVEMENT**

**PLAN AND PROFILE SHEET**

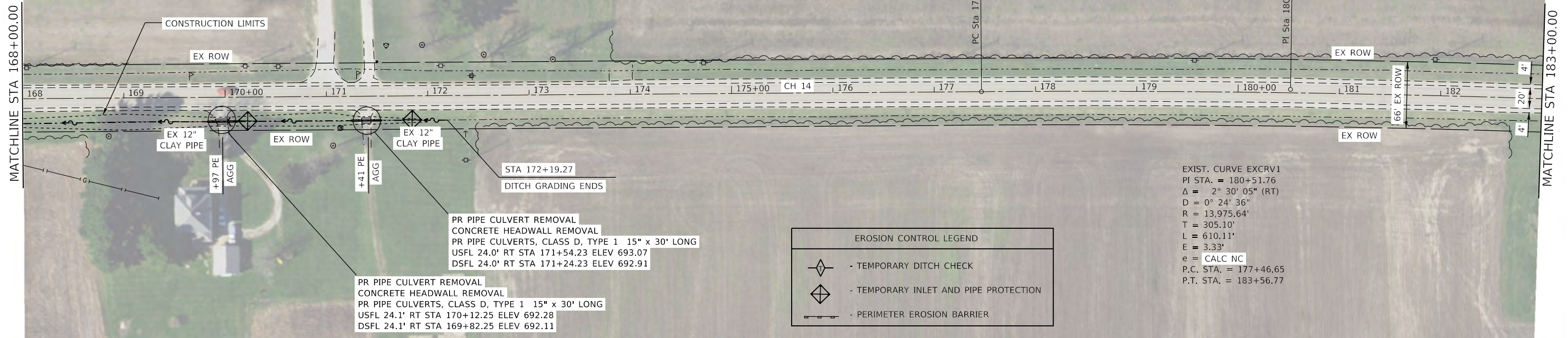
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CONTRACT NO. 91610		ILLINOIS FED. AID PROJECT		

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	PLOTTED		
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	CHECKED		
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PROFILE	SURVEYED	BY	DATE
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	NOTATIONS		
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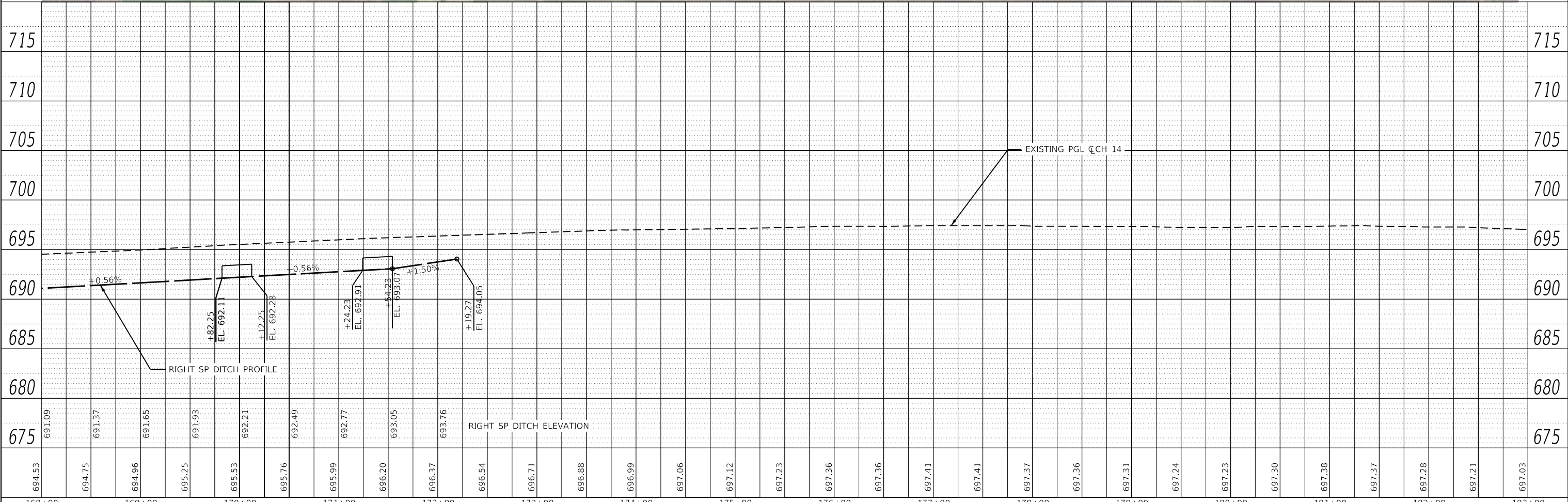


EXIST. CURVE EXCRV1  
 PI STA. = 180+51.76  
 $\Delta = 2^\circ 30' 05''$  (RT)  
 $D = 0^\circ 24' 36''$   
 $R = 13,975.64'$   
 $T = 305.10'$   
 $L = 610.11'$   
 $E = 3.33'$   
 $e = \text{CALC NC}$   
 P.C. STA. = 177+46.65  
 P.T. STA. = 183+56.77

EROSION CONTROL LEGEND	
	- TEMPORARY DITCH CHECK
	- TEMPORARY INLET AND PIPE PROTECTION
	- PERIMETER EROSION BARRIER

PR PIPE CULVERT REMOVAL  
 CONCRETE HEADWALL REMOVAL  
 PR PIPE CULVERTS, CLASS D, TYPE 1 15" x 30' LONG  
 USFL 24.0' RT STA 171+54.23 ELEV 693.07  
 DSFL 24.0' RT STA 171+24.23 ELEV 692.91

PR PIPE CULVERT REMOVAL  
 CONCRETE HEADWALL REMOVAL  
 PR PIPE CULVERTS, CLASS D, TYPE 1 15" x 30' LONG  
 USFL 24.1' RT STA 170+12.25 ELEV 692.28  
 DSFL 24.1' RT STA 169+82.25 ELEV 692.11



694.53	694.75	694.96	695.25	695.53	695.76	695.99	696.20	696.37	696.54	696.71	696.88	696.99	697.06	697.12	697.23	697.36	697.36	697.41	697.41	697.37	697.36	697.31	697.24	697.23	697.30	697.38	697.37	697.28	697.21	697.03
168+00	169+00	170+00	171+00	172+00	173+00	174+00	175+00	176+00	177+00	178+00	179+00	180+00	181+00	182+00	183+00															

**CEC** Cummins Engineering Corporation  
 Civil and Structural Engineering

JOB = 2624.1	DESIGNED - TEC	REVISED -
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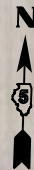
**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**PLAN AND PROFILE SHEET**

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	16
CONTRACT NO. 91610			ILLINOIS FED. AID PROJECT	

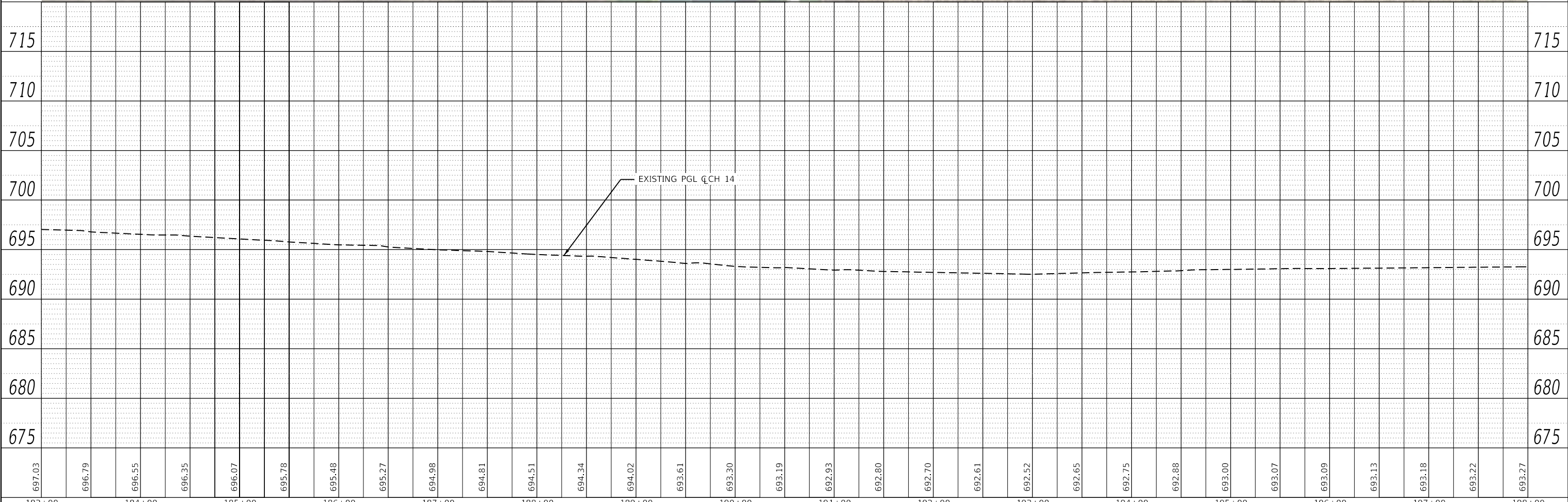




PLAN	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	ALIGNED		
	CHECKED		
	CAD FILE NAME		

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		

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 Co: CH 14 Active Roadway - 2624\1\sheet-plan\_50c.dgn



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183+00	184+00	185+00	186+00	187+00	188+00	189+00	190+00	191+00	192+00	193+00	194+00	195+00	196+00	197+00	198+00																	

**CEC** Cummins Engineering Corporation  
 Civil and Structural Engineering

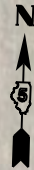
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FILE NAME = 007 - 2624.1-sheet-plan_50c.dgn	DRAWN - TEC	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - CGF	REVISED -
PLOT DATE = 10/7/2021	DATE - 10-6-2021	REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

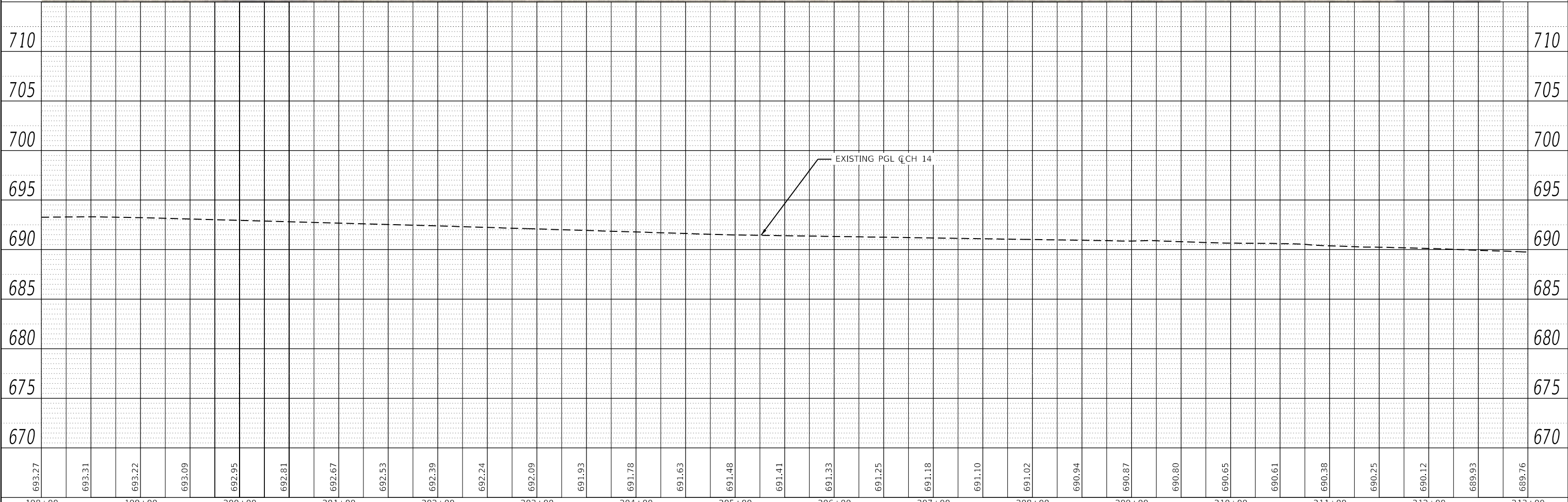
**PLAN AND PROFILE SHEET**

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	17
CONTRACT NO. 91610			ILLINOIS FED. AID PROJECT	



EROSION CONTROL LEGEND	
	- TEMPORARY DITCH CHECK
	- TEMPORARY INLET AND PIPE PROTECTION
	- PERIMETER EROSION BARRIER



PLAN	DATE
SURVEYED	
PLOTTED	
ALIGNED	
CHECKED	
FILE NAME	
NO.	

PROFILE	DATE
SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
NO.	

MODEL: Default  
 FILE NAME: C:\Users\csl\OneDrive\Network\Support\Jobs\Active Roadway - 2624.1\Vermlion Co CH 14 Altera.rvt\CADD\Sheets\007 - 2624.1\shp-plan\_50c.dgn

198+00	199+00	200+00	201+00	202+00	203+00	204+00	205+00	206+00	207+00	208+00	209+00	210+00	211+00	212+00	213+00
693.27	693.31	693.22	693.09	692.95	692.81	692.67	692.53	692.39	692.24	692.09	691.93	691.78	691.63	691.48	691.41
691.33	691.25	691.18	691.10	691.02	690.94	690.87	690.80	690.65	690.61	690.38	690.25	690.12	689.93	689.76	

**CEC** Cummins Engineering Corporation  
 Civil and Structural Engineering

JOB # = 2624.1	DESIGNED - TEC	REVISED -
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PLOT SCALE = 100.0000' / in.	CHECKED - CGF	REVISED -
PLOT DATE = 10/7/2021	DATE - 10-6-2021	REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**PLAN AND PROFILE SHEET**

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

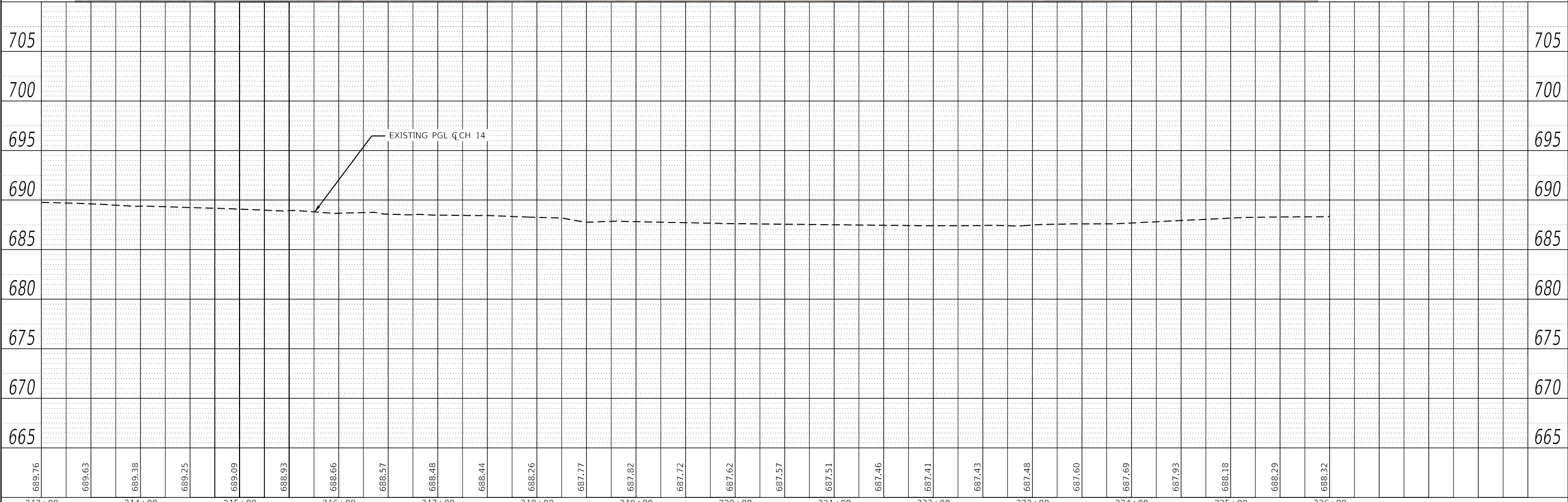
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	18
CONTRACT NO. 91610			ILLINOIS FED. AID PROJECT	

SEC 7, T22N, R11W, 2ND PM



PLAN	SURVISED	DATE
NOTE BOOK	ALIGNED	
	CHECKED	
	FILE NAME	

PROFILE	SURVISED	DATE
NOTE BOOK	GRADES	
	CHECKED	
	STRUCTURE	



**CEC** Cummins  
 Engineering  
 Corporation  
 Civil and Structural Engineering

JOB # 2624.1	DESIGNED - TEC	REVISED -
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PLOT SCALE = 100.0000' / in.	CHECKED - CGF	REVISED -
PLOT DATE = 10/7/2021	DATE - 10-6-2021	REVISED -

VERMILION COUNTY  
CH 14 IMPROVEMENT

SCALE: 1"=50'  
 SHEET OF SHEETS  
 STA. TO STA.

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	19
CONTRACT NO. 91610				
ILLINOIS FED. AID PROJECT				

MODEL: Default  
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	PLOTTED	
	ALIGNED	
	CHECKED	
	FILE NAME	
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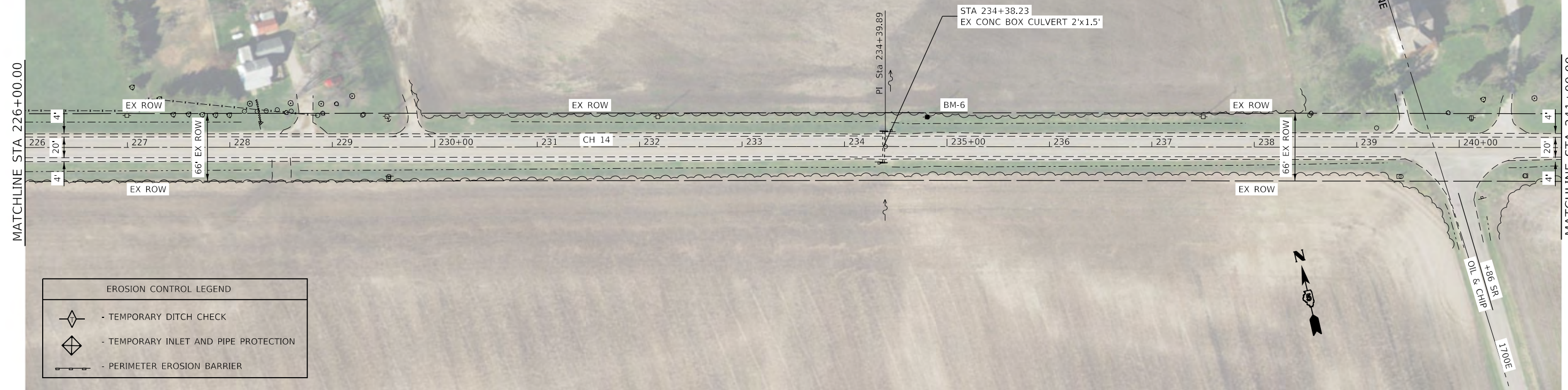
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	PLOTTED	
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	CHECKED	
	STRUCTURE	
	NOTATION	
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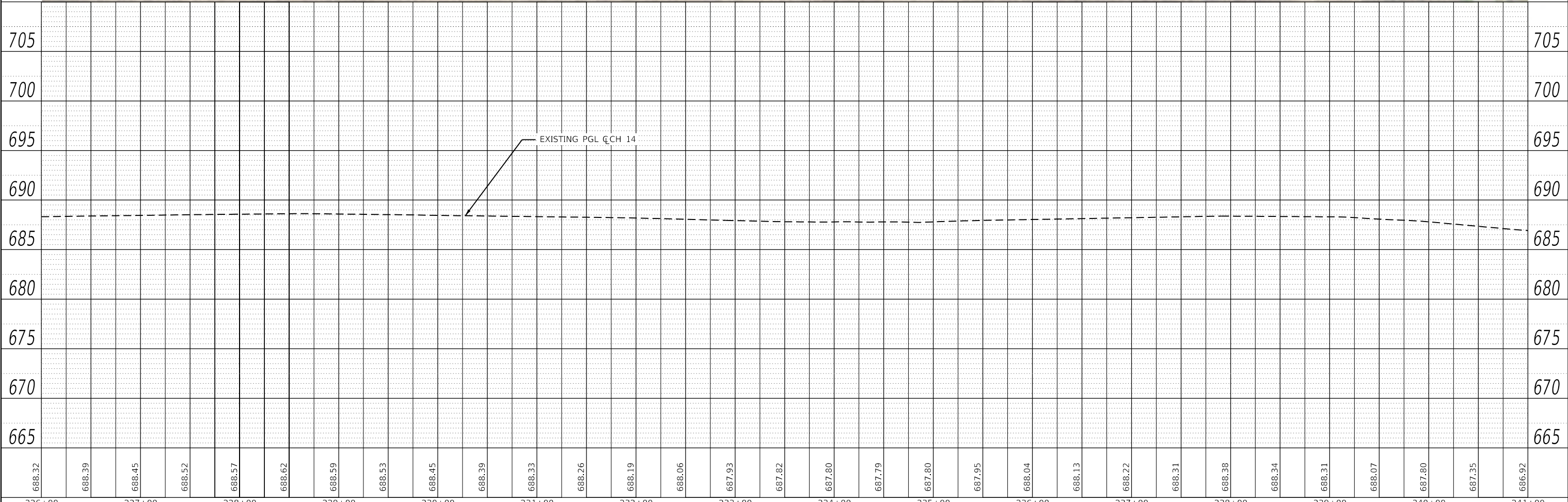
MATCHLINE STA 226+00.00

MATCHLINE STA 241+00.00

APPROX SECT LINE



EROSION CONTROL LEGEND	
	- TEMPORARY DITCH CHECK
	- TEMPORARY INLET AND PIPE PROTECTION
	- PERIMETER EROSION BARRIER



688.32	688.39	688.45	688.52	688.57	688.62	688.59	688.53	688.45	688.39	688.33	688.26	688.19	688.06	687.93	687.82	687.80	687.79	687.80	687.95	688.04	688.13	688.22	688.31	688.38	688.34	688.31	688.07	687.80	687.35	686.92		
226+00	227+00	228+00	229+00	230+00	231+00	232+00	233+00	234+00	235+00	236+00	237+00	238+00	239+00	240+00	241+00																	

**CEC** Cummins Engineering Corporation  
 Civil and Structural Engineering

JOB # 2624.1	DESIGNED - TEC	REVISED -
FILE NAME = 007 - 26241.1-sht-plan_50c.dgn	DRAWN - TEC	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - CGF	REVISED -
PLOT DATE = 10/7/2021	DATE - 10-6-2021	REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**PLAN AND PROFILE SHEET**

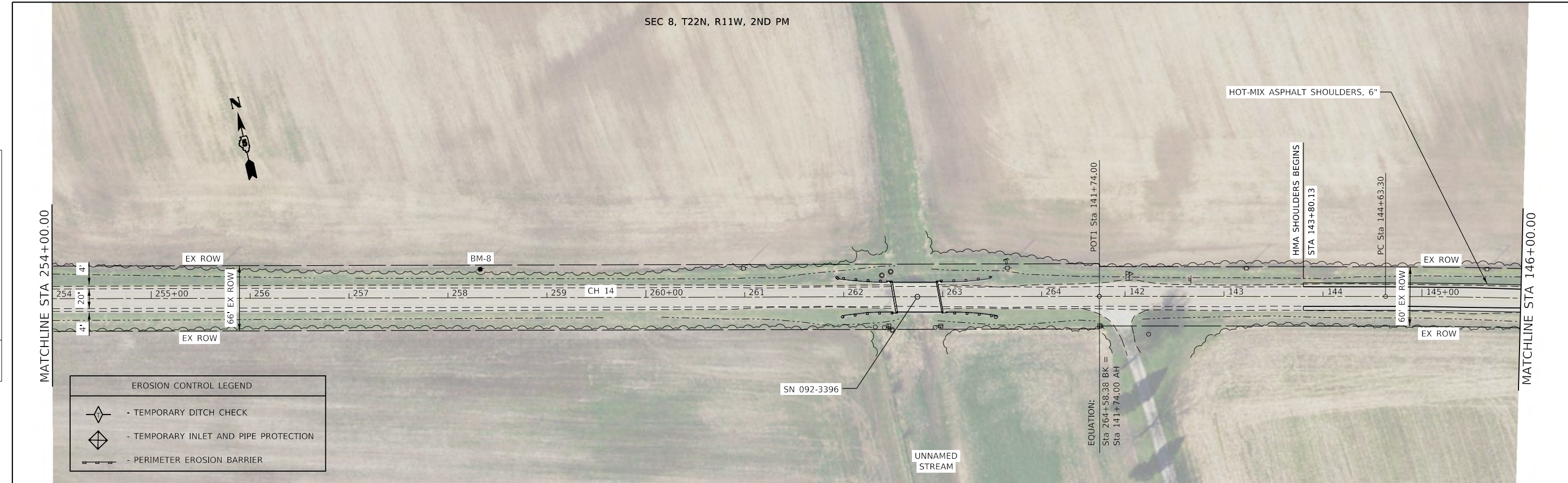
SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	20
CONTRACT NO. 91610			ILLINOIS FED. AID PROJECT	

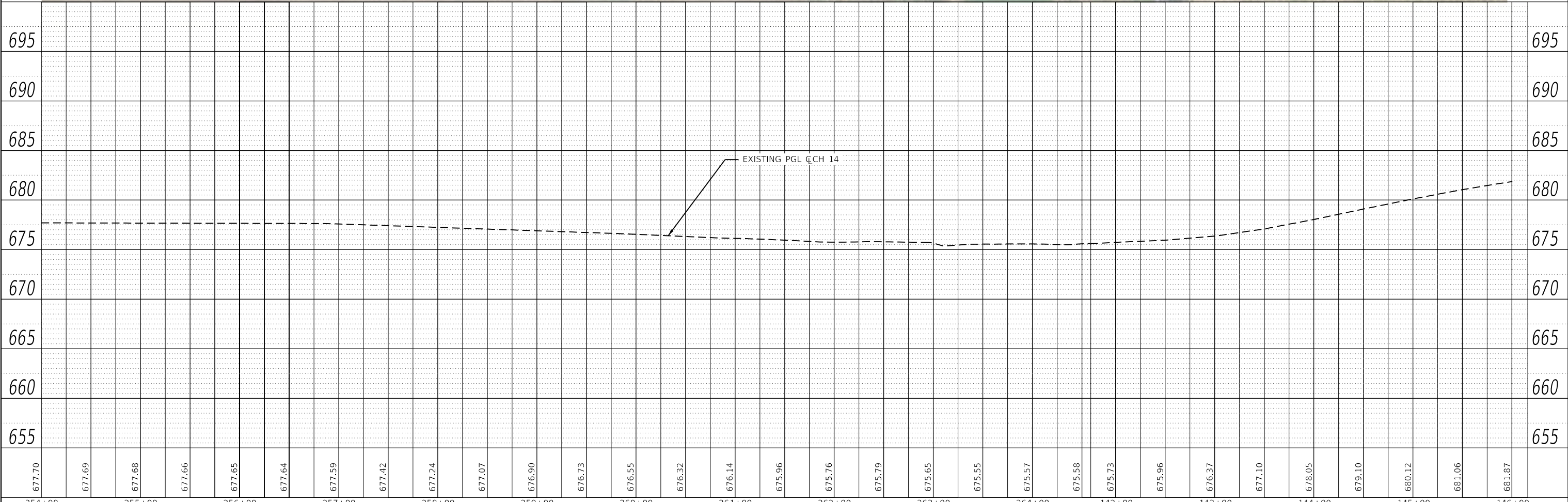


PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATION	
	NO.	



EROSION CONTROL LEGEND	
	- TEMPORARY DITCH CHECK
	- TEMPORARY INLET AND PIPE PROTECTION
	- PERIMETER EROSION BARRIER



677.70	677.69	677.68	677.66	677.65	677.64	677.59	677.42	677.24	677.07	676.90	676.73	676.55	676.32	676.14	675.96	675.76	675.79	675.65	675.55	675.57	675.58	675.73	675.96	676.37	677.10	678.05	679.10	680.12	681.06	681.87
254+00	255+00	256+00	257+00	258+00	259+00	260+00	261+00	262+00	263+00	264+00	142+00	143+00	144+00	145+00	146+00															

**CEC** Cummins Engineering Corporation  
Civil and Structural Engineering

JOB # 2624.1	DESIGNED - TEC	REVISED -
FILE NAME = 007 - 2624.1-shit-plan_50c.dgn	DRAWN - TEC	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - CGF	REVISED -
PLOT DATE = 10/7/2021	DATE - 10-6-2021	REVISED -

**VERMILION COUNTY  
CH 14 IMPROVEMENT**

**PLAN AND PROFILE SHEET**

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	22
CONTRACT NO. 91610			ILLINOIS FED. AID PROJECT	

EXIST. CURVE EXCRV4  
 PI STA. = 149+47.16  
 $\Delta = 10^\circ 16' 17''$  (RT)  
 $D = 1^\circ 03' 51''$   
 $R = 5,383.64'$   
 $T = 483.86'$   
 $L = 965.13'$   
 $E = 21.70'$   
 $e = \text{CALC } 2.1\%$   
 P.C. STA. = 144+63.30  
 P.T. STA. = 154+28.43

SEC 8, T22N, R11W, 2ND PM

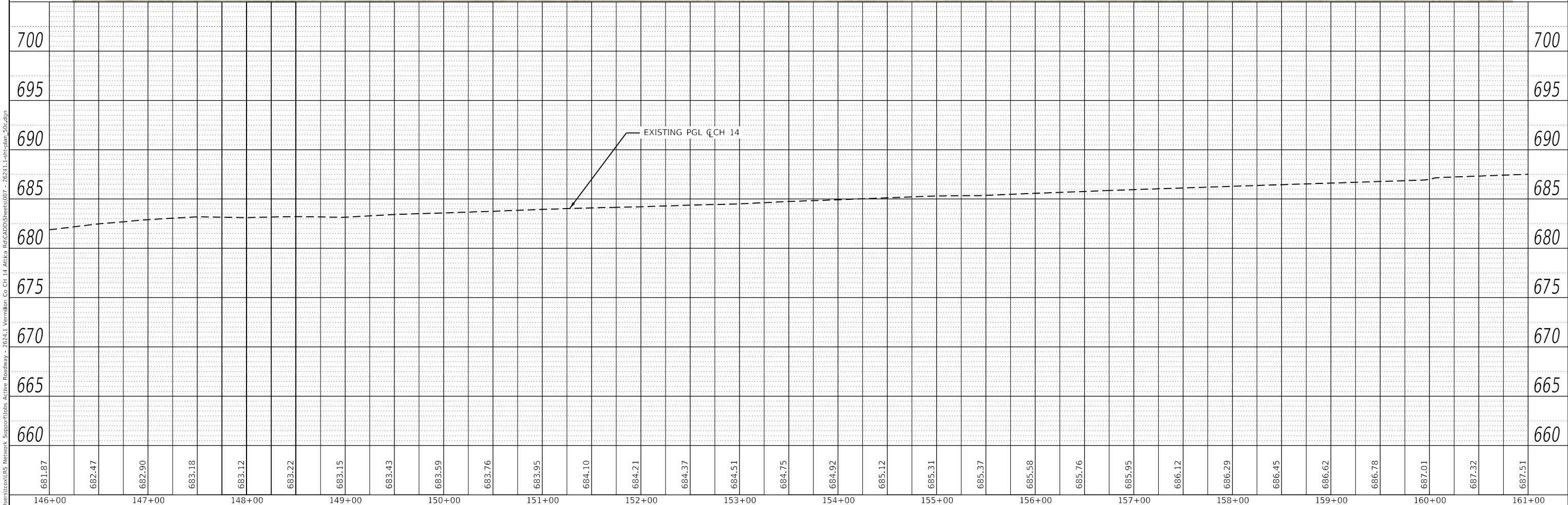
PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATIONS	
	NO.	



**EROSION CONTROL LEGEND**

- TEMPORARY DITCH CHECK
- TEMPORARY INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER



681.87	682.47	682.90	683.18	683.12	683.22	683.15	683.43	683.59	683.76	683.95	684.10	684.21	684.37	684.51	684.75	684.92	685.12	685.31	685.37	685.58	685.76	685.95	686.12	686.29	686.45	686.62	686.78	687.01	687.32	687.51	
146+00	147+00	148+00	149+00	150+00	151+00	152+00	153+00	154+00	155+00	156+00	157+00	158+00	159+00	160+00	161+00																

**CEC** Cummins Engineering Corporation  
 Civil and Structural Engineering

JOB #	2624.1	DESIGNED -	TEC	REVISED -	
FILE NAME	= 007 - 2624.1-sht-plan_50c.dgn	DRAWN -	TEC	REVISED -	
PLOT SCALE	= 100,0000 ' / in.	CHECKED -	CGF	REVISED -	
PLOT DATE	= 10/7/2021	DATE -	10-6-2021	REVISED -	

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

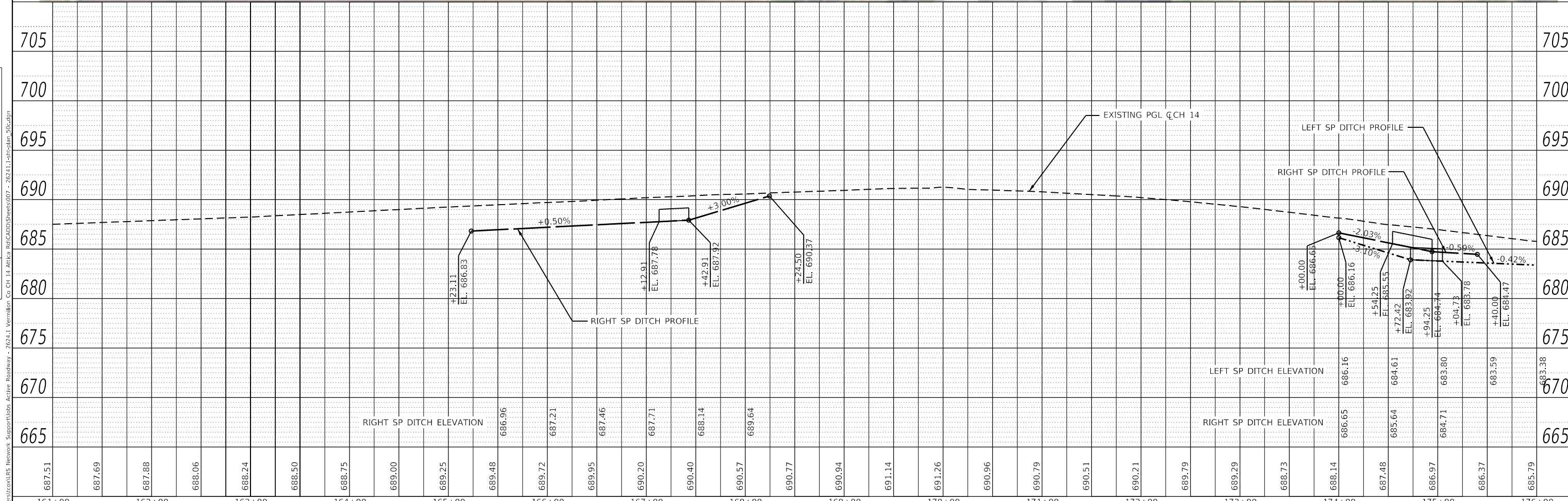
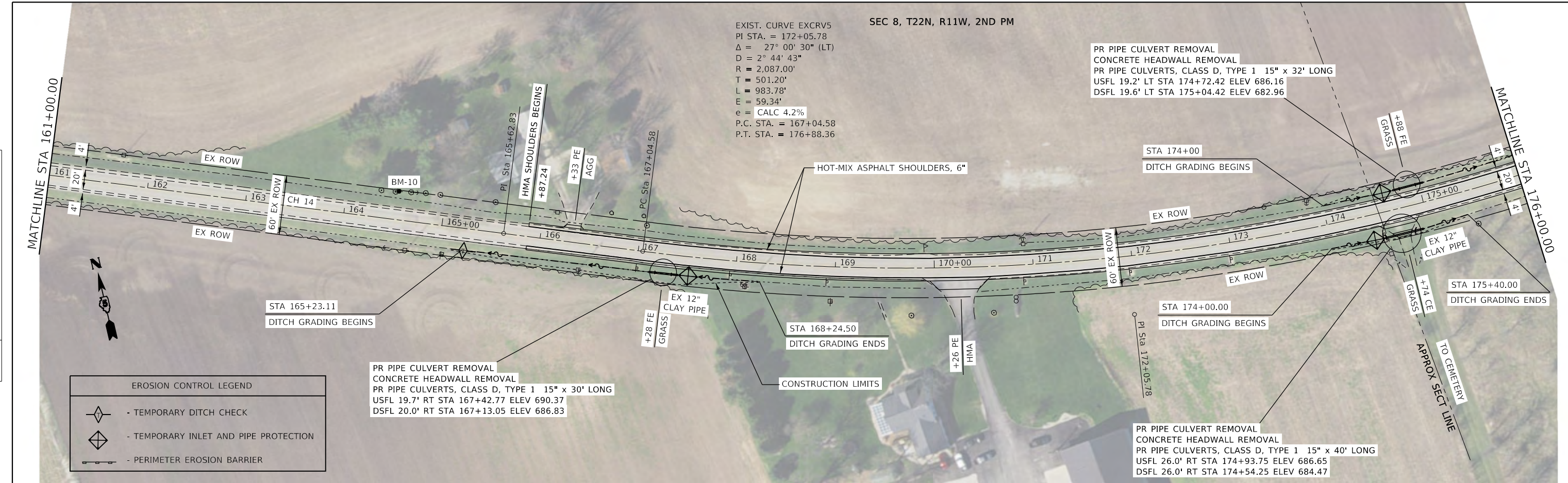
**PLAN AND PROFILE SHEET**

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	23
CONTRACT NO. 91610			ILLINOIS FED. AID PROJECT	

DATE	
BY	
PLAN	
SURVEYED	
PLOTTED	
ALIGNED	
CHECKED	
FILE NAME	
NO.	

DATE	
BY	
PROFILE	
SURVEYED	
PLOTTED	
GRADES	
CHECKED	
STRUCTURE	
NOTATION	
NO.	

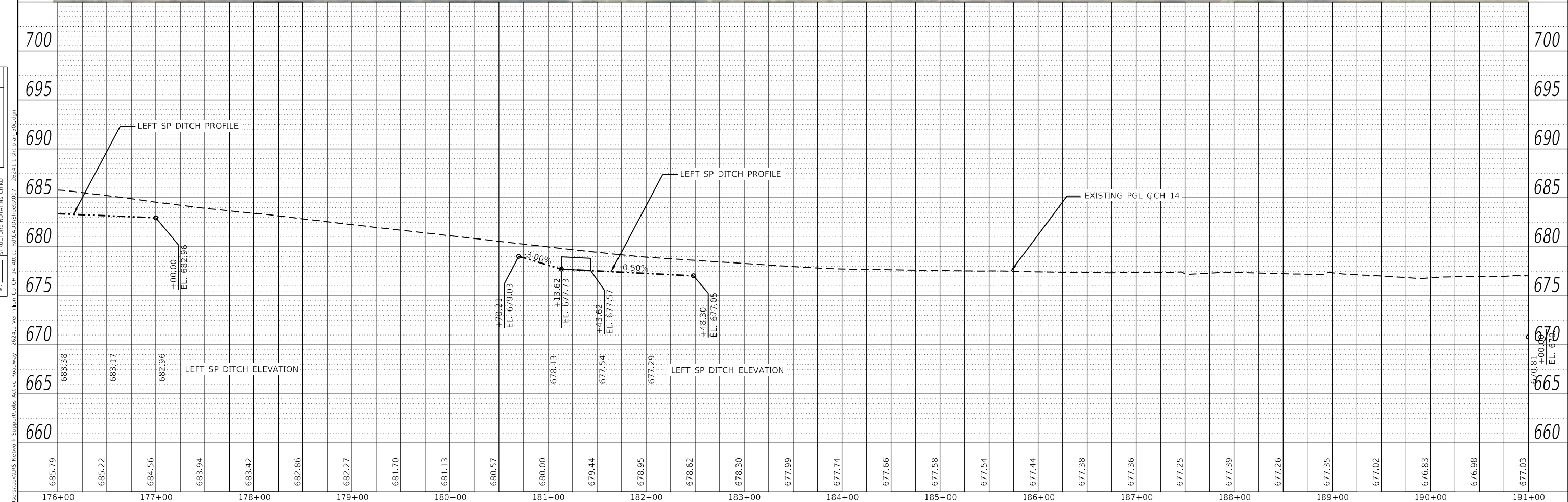
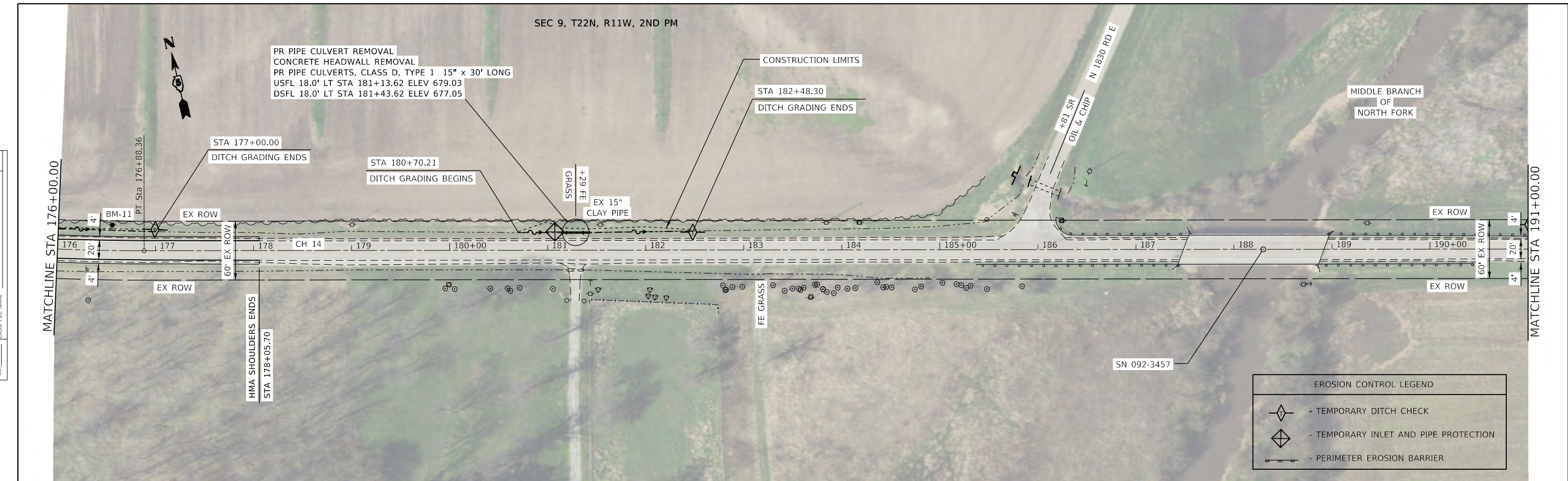


687.51	687.69	687.88	688.06	688.24	688.50	688.75	689.00	689.25	689.48	689.72	689.95	690.20	690.40	690.57	690.77	690.94	691.14	691.26	690.96	690.79	690.51	690.21	689.79	689.29	688.73	688.14	687.48	686.97	686.37	685.79	
161+00	162+00	163+00	164+00	165+00	166+00	167+00	168+00	169+00	170+00	171+00	172+00	173+00	174+00	175+00	176+00																



PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATION	
	NO.	

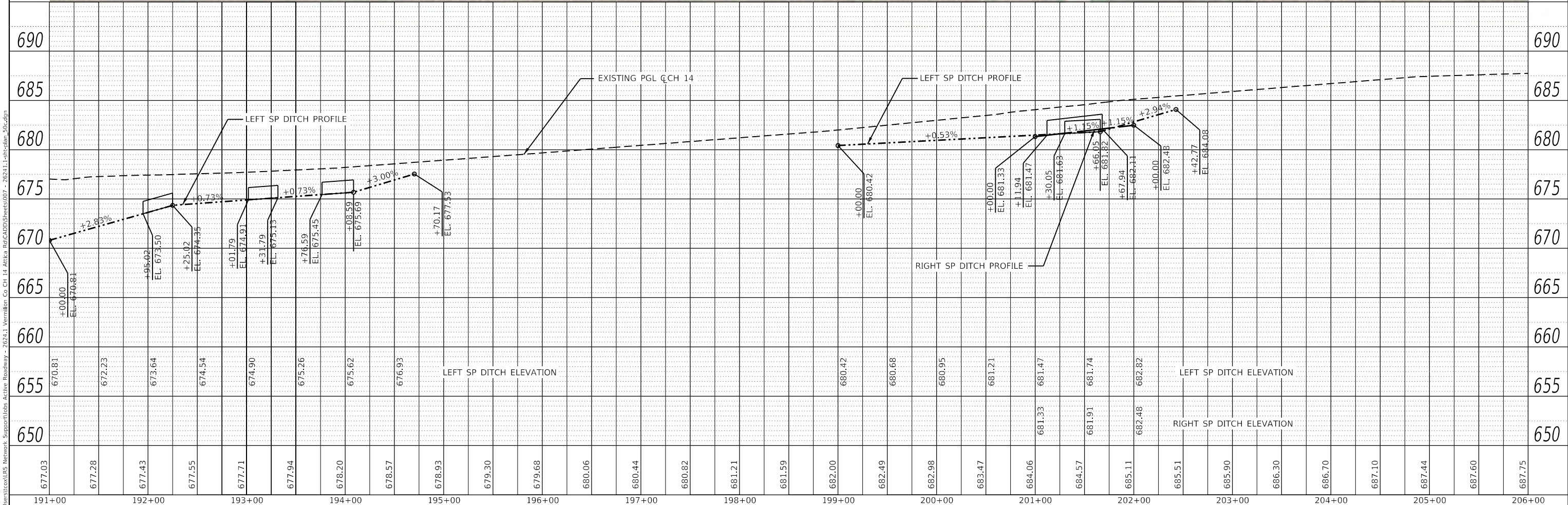
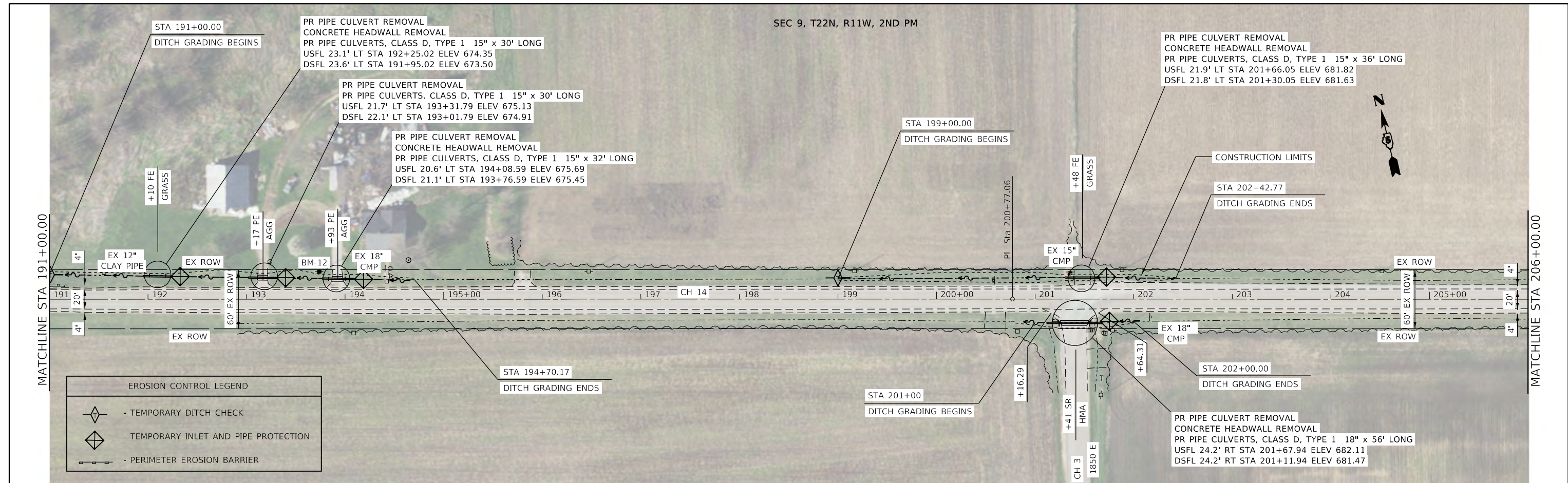


<b>CEC</b> Cummins Engineering Corporation Civil and Structural Engineering	JOB = 2624.1 FILE NAME = 007 - 2624.1-shit-plan_50c.dgn PLOT SCALE = 100.0000' / in. PLOT DATE = 10/7/2021	DESIGNED - TEC DRAWN - TEC CHECKED - CGF DATE - 10-6-2021	REVISED - REVISED - REVISED - REVISED -	<b>VERMILION COUNTY</b> <b>CH 14 IMPROVEMENT</b>	<b>PLAN AND PROFILE SHEET</b> SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.	F.A.S. RTE 496 SECTION 19-00216-00-5P COUNTY VERMILION ILLINOIS FED. AID PROJECT	TOTAL SHEETS 80 SHEET NO. 25 CONTRACT NO. 91610
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PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATIONS	
	FILE NAME	
	NO.	

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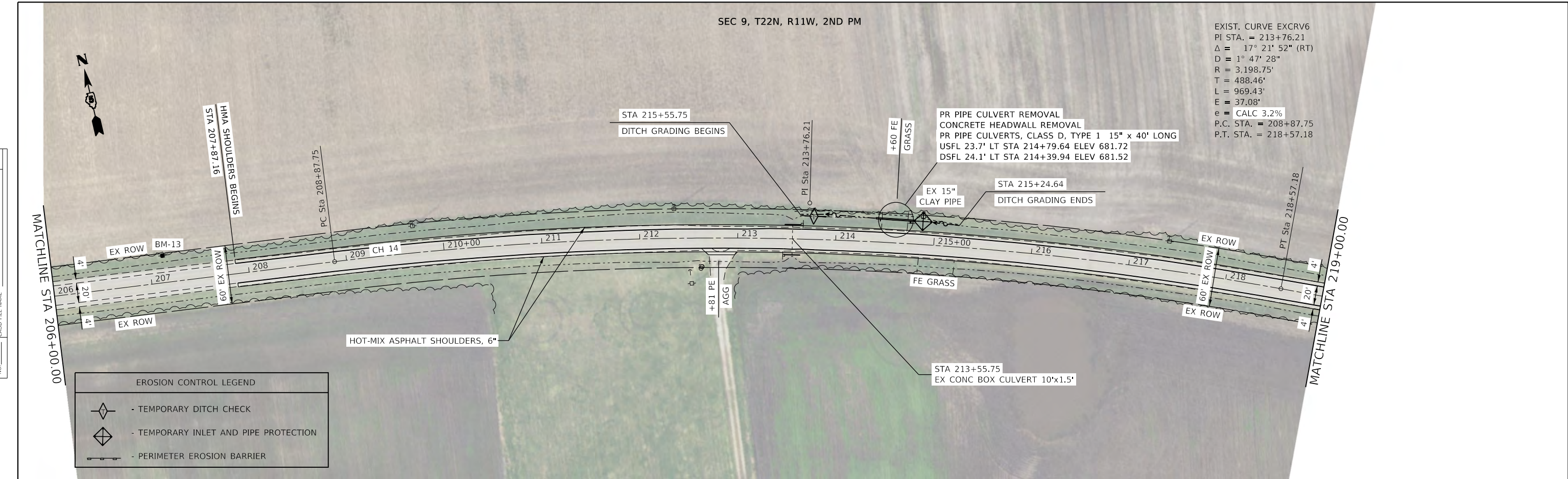


<b>Cummins Engineering Corporation</b> Civil and Structural Engineering	JOB = 2624.1 FILE NAME = 007 - 26241.1-sh-t-plan_50c.dgn PLOT SCALE = 100.0000' / in. PLOT DATE = 10/7/2021	DESIGNED - TEC DRAWN - TEC CHECKED - CGF DATE - 10-6-2021	REVISED - REVISED - REVISED - REVISED -	<b>VERMILION COUNTY          CH 14 IMPROVEMENT</b>	<b>PLAN AND PROFILE SHEET</b>		SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.	F.A.S. RTE 496 SECTION 19-00216-00-SP COUNTY VERMILION ILLINOIS FED. AID PROJECT	TOTAL SHEETS 80 SHEET NO. 26 CONTRACT NO. 91610
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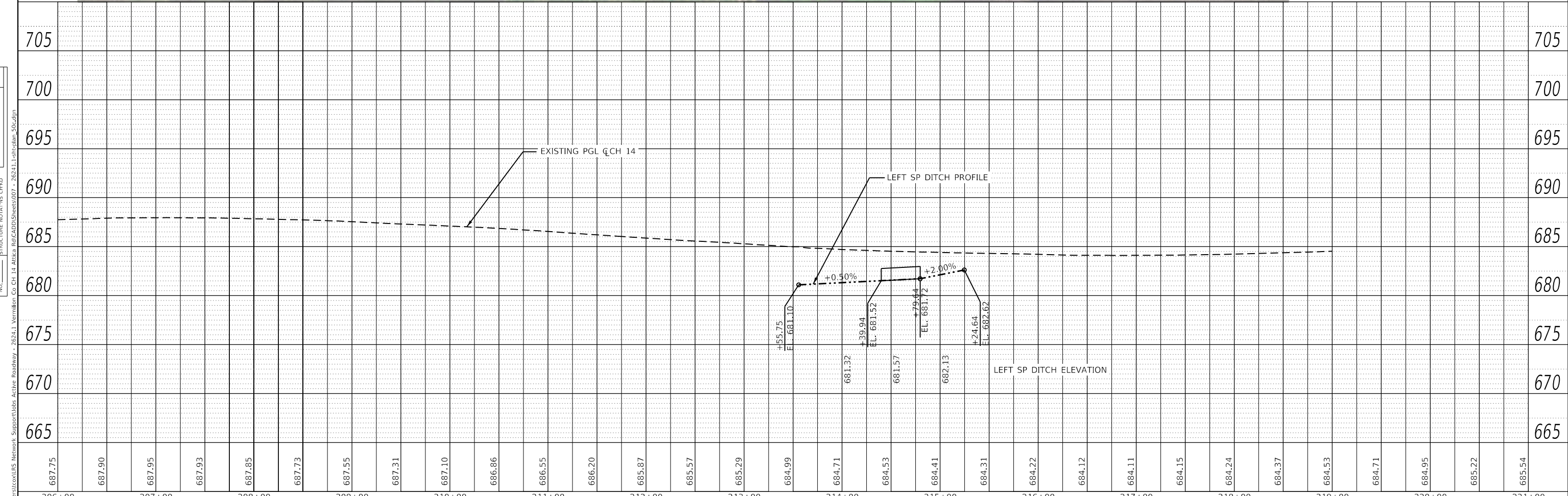
EXIST. CURVE EXCRV6  
 PI STA. = 213+76.21  
 $\Delta = 17^\circ 21' 52''$  (RT)  
 $D = 1^\circ 47' 28''$   
 $R = 3,198.75'$   
 $T = 488.46'$   
 $L = 969.43'$   
 $E = 37.08'$   
 $e = \text{CALC } 3.2\%$   
 P.C. STA. = 208+87.75  
 P.T. STA. = 218+57.18

PLAN	SURVEYED	DATE
	BY	
	NO.	
	NO.	
	NO.	
	NO.	

PROFILE	SURVEYED	DATE
	BY	
	NO.	
	NO.	
	NO.	
	NO.	



EROSION CONTROL LEGEND	
	- TEMPORARY DITCH CHECK
	- TEMPORARY INLET AND PIPE PROTECTION
	- PERIMETER EROSION BARRIER



687.75	687.90	687.95	687.93	687.85	687.73	687.55	687.31	687.10	686.86	686.55	686.20	685.87	685.57	685.29	684.99	684.71	684.53	684.41	684.31	684.22	684.12	684.11	684.15	684.24	684.37	684.53	684.71	684.95	685.22	685.54
206+00	207+00	208+00	209+00	210+00	211+00	212+00	213+00	214+00	215+00	216+00	217+00	218+00	219+00	220+00	221+00															



JOB # 2624.1  
 FILE NAME = 007 - 26241.1-sht-plan\_50c.dgn  
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 PLOT DATE = 10/7/2021

DESIGNED - TEC  
 DRAWN - TEC  
 CHECKED - CGF  
 DATE - 10-6-2021

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**PLAN AND PROFILE SHEET**  
 SCALE: 1"=50'  
 SHEET OF SHEETS STA. TO STA.

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	27
CONTRACT NO. 91610				
ILLINOIS FED. AID PROJECT				

SEC 16, T22N, R11W, 2ND PM

SEC 15, T22N, R11W, 2ND PM

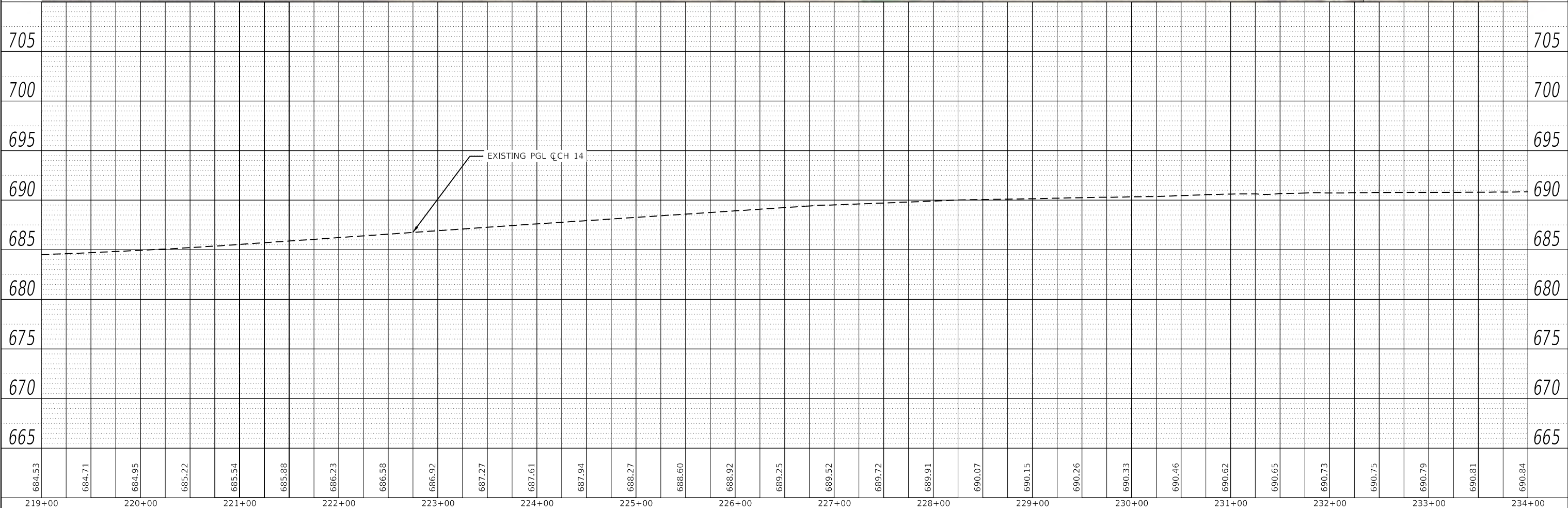
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PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATION	
	NO.	

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Support\Jobs\Active Roadway - 2624\1 Vermilion Co CH 14.dwg



EROSION CONTROL LEGEND	
	- TEMPORARY DITCH CHECK
	- TEMPORARY INLET AND PIPE PROTECTION
	- PERIMETER EROSION BARRIER



219+00	220+00	221+00	222+00	223+00	224+00	225+00	226+00	227+00	228+00	229+00	230+00	231+00	232+00	233+00	234+00															
684.53	684.71	684.95	685.22	685.54	685.88	686.23	686.58	686.92	687.27	687.61	687.94	688.27	688.60	688.92	689.25	689.52	689.72	689.91	690.07	690.15	690.26	690.33	690.46	690.62	690.65	690.73	690.75	690.79	690.81	690.84

**CEC** Cummins Engineering Corporation  
Civil and Structural Engineering

JOB # = 2624.1	DESIGNED - TEC	REVISED -
FILE NAME = 007 - 2624.1-1-sht-plan_50c.dwg	DRAWN - TEC	REVISED -
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PLOT DATE = 10/7/2021	DATE - 10-6-2021	REVISED -

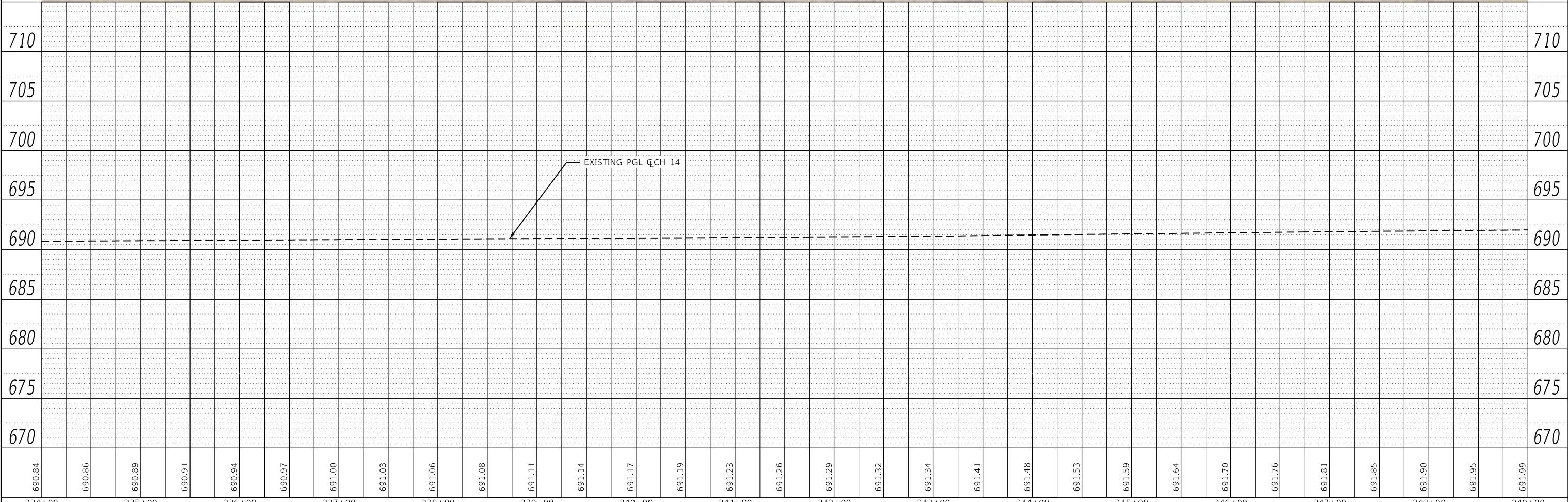
**VERMILION COUNTY  
CH 14 IMPROVEMENT**

<b>PLAN AND PROFILE SHEET</b>			
SCALE: 1"=50'	SHEET	OF SHEETS	STA. TO STA.

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	28
CONTRACT NO. 91610			ILLINOIS FED. AID PROJECT	



EROSION CONTROL LEGEND	
	- TEMPORARY DITCH CHECK
	- TEMPORARY INLET AND PIPE PROTECTION
	- PERIMETER EROSION BARRIER



PLAN	DATE
SURVEYED	
PLOTTED	
ALIGNMENT CHECKED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	
CADD FILE NAME	

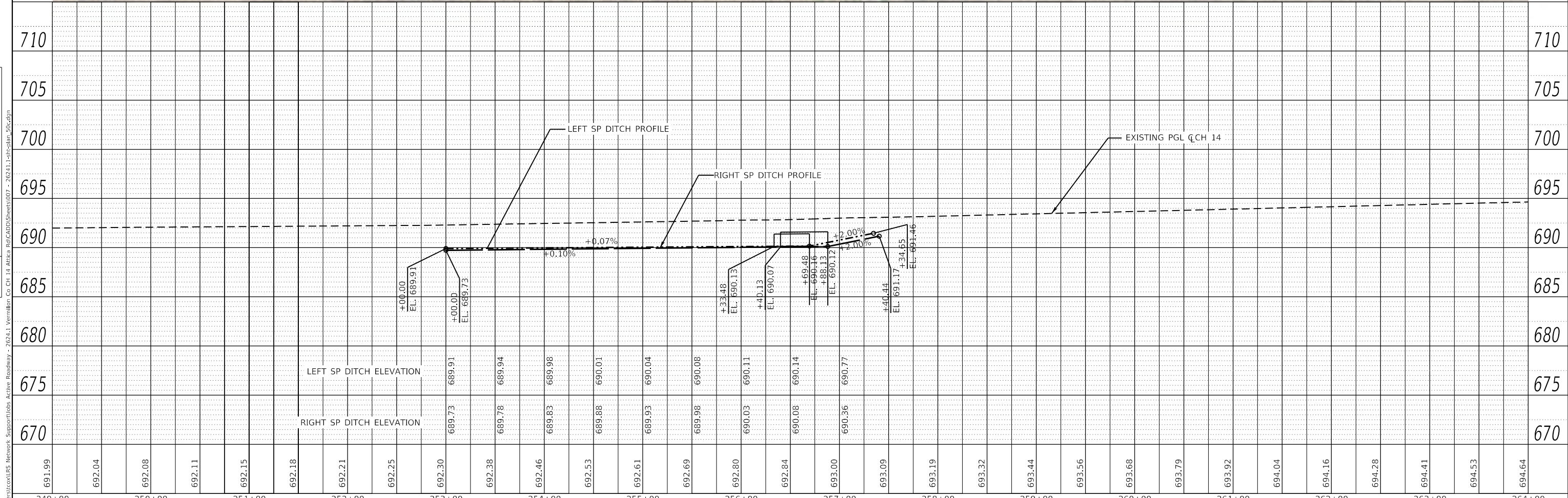
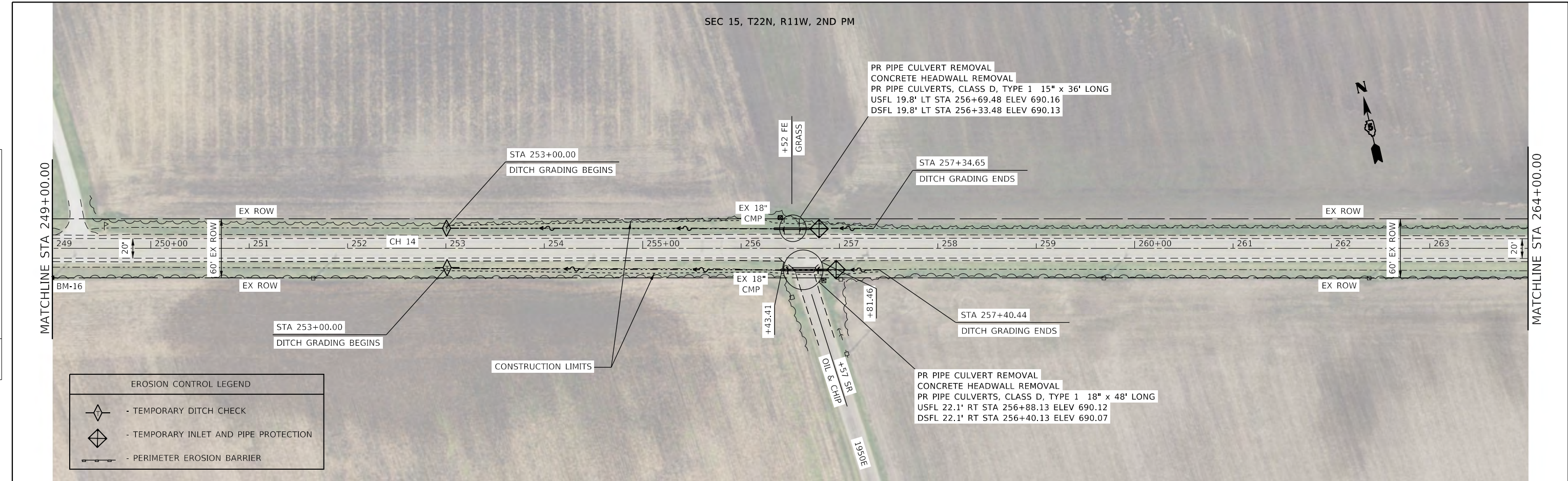
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SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
NOTE BOOK NO.	
CADD FILE NAME	

MODEL: Default  
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690.84	690.86	690.89	690.91	690.94	690.97	691.00	691.03	691.06	691.08	691.11	691.14	691.17	691.19	691.23	691.26	691.29	691.32	691.34	691.41	691.48	691.53	691.59	691.64	691.70	691.76	691.81	691.85	691.90	691.95	691.99		
234+00	235+00	236+00	237+00	238+00	239+00	240+00	241+00	242+00	243+00	244+00	245+00	246+00	247+00	248+00	249+00																	
<b>CEC</b> Cummins Engineering Corporation Civil and Structural Engineering		JOB = 2624.1 FILE NAME = 007 - 2624.1-sheet-plan_50c.dgn PLOT SCALE = 100.0000' / in. PLOT DATE = 10/7/2021	DESIGNED - TEC DRAWN - TEC CHECKED - CGF DATE - 10-6-2021	REVISED - REVISED - REVISED - REVISED -	<b>VERMILION COUNTY CH 14 IMPROVEMENT</b>										<b>PLAN AND PROFILE SHEET</b>					F.A.S. RTE. 496	SECTION 19-00216-00-5P	COUNTY VERMILION	TOTAL SHEETS 80	SHEET NO. 29	CONTRACT NO. 91610							
SCALE: 1"=50'		SHEET OF SHEETS		STA. TO STA.		ILLINOIS		FED. AID PROJECT																								

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATION	
	NO.	



691.99	692.04	692.08	692.11	692.15	692.18	692.21	692.25	692.30	692.38	692.46	692.53	692.61	692.69	692.80	692.84	693.00	693.09	693.19	693.32	693.44	693.56	693.68	693.79	693.92	694.04	694.16	694.28	694.41	694.53	694.64
249+00	250+00	251+00	252+00	253+00	254+00	255+00	256+00	257+00	258+00	259+00	260+00	261+00	262+00	263+00	264+00															

**CEC** Cummins Engineering Corporation  
Civil and Structural Engineering

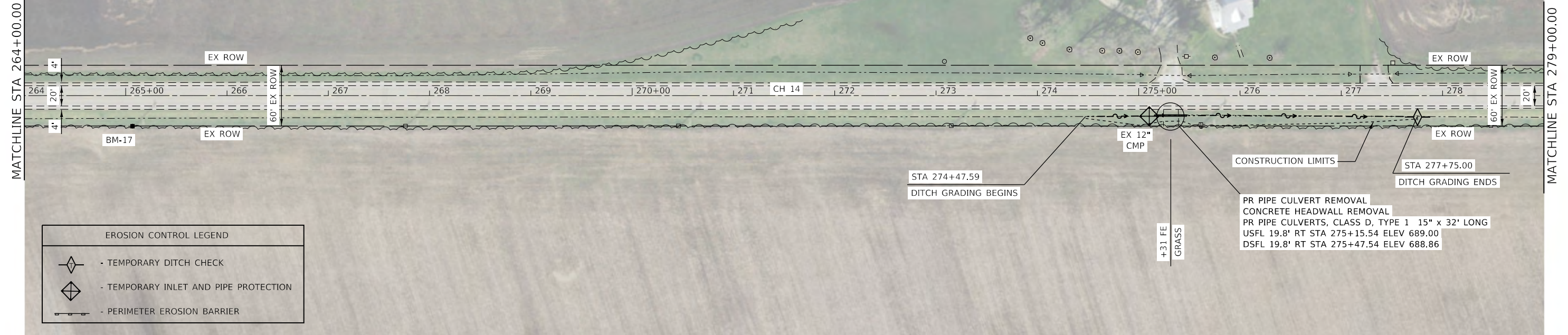
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PLOT SCALE = 100,0000' / in.	CHECKED - CGF	REVISED -
PLOT DATE = 10/7/2021	DATE - 10-6-2021	REVISED -

**VERMILION COUNTY  
CH 14 IMPROVEMENT**

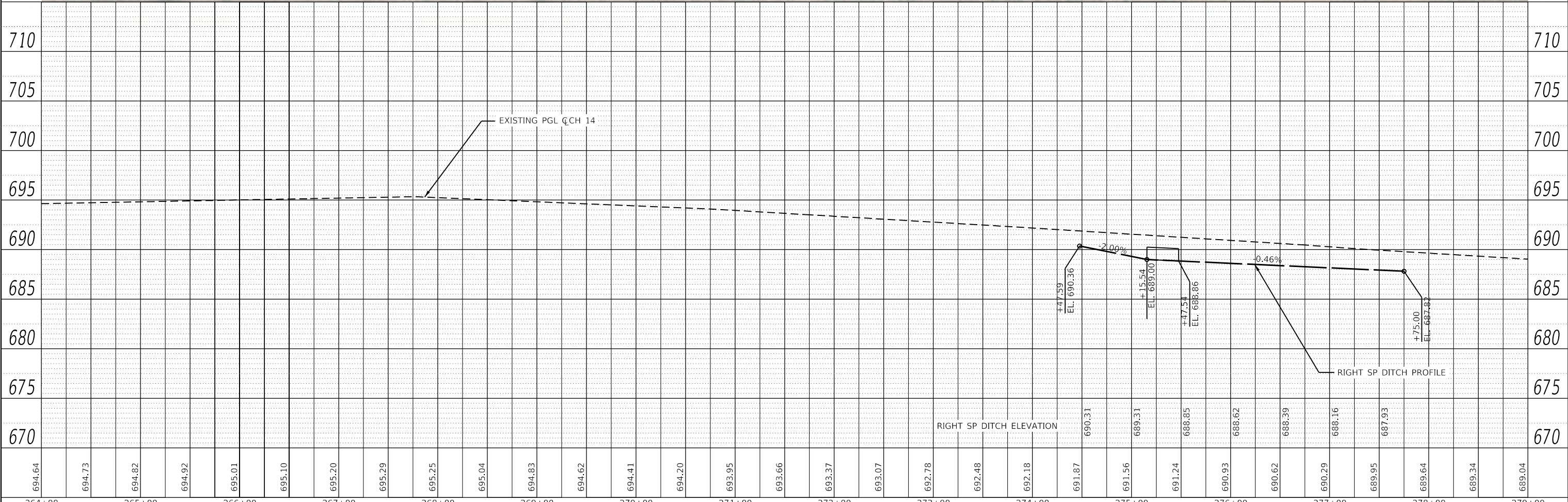
**PLAN AND PROFILE SHEET**

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	30
CONTRACT NO. 91610			ILLINOIS FED. AID PROJECT	



EROSION CONTROL LEGEND	
	- TEMPORARY DITCH CHECK
	- TEMPORARY INLET AND PIPE PROTECTION
	- PERIMETER EROSION BARRIER



PLAN	DATE
SURVEYED	
PLOTTED	
ALIGNED	
CHECKED	
FILE NAME	
NO.	

PROFILE	DATE
SURVEYED	
PLOTTED	
GRADES CHECKED	
STRUCTURE NOTATIONS CHECKED	
NO.	

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 Co: CH 14 Active Roadway - 2624.1\19-0216-00-5P.dgn

**CEC** Cummins Engineering Corporation  
 Civil and Structural Engineering

JOB # = 2624.1	DESIGNED - TEC	REVISED -
FILE NAME = 007 - 2624.1-19-0216-00-5P.dgn	DRAWN - TEC	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - CGF	REVISED -
PLOT DATE = 10/7/2021	DATE - 10-6-2021	REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**PLAN AND PROFILE SHEET**

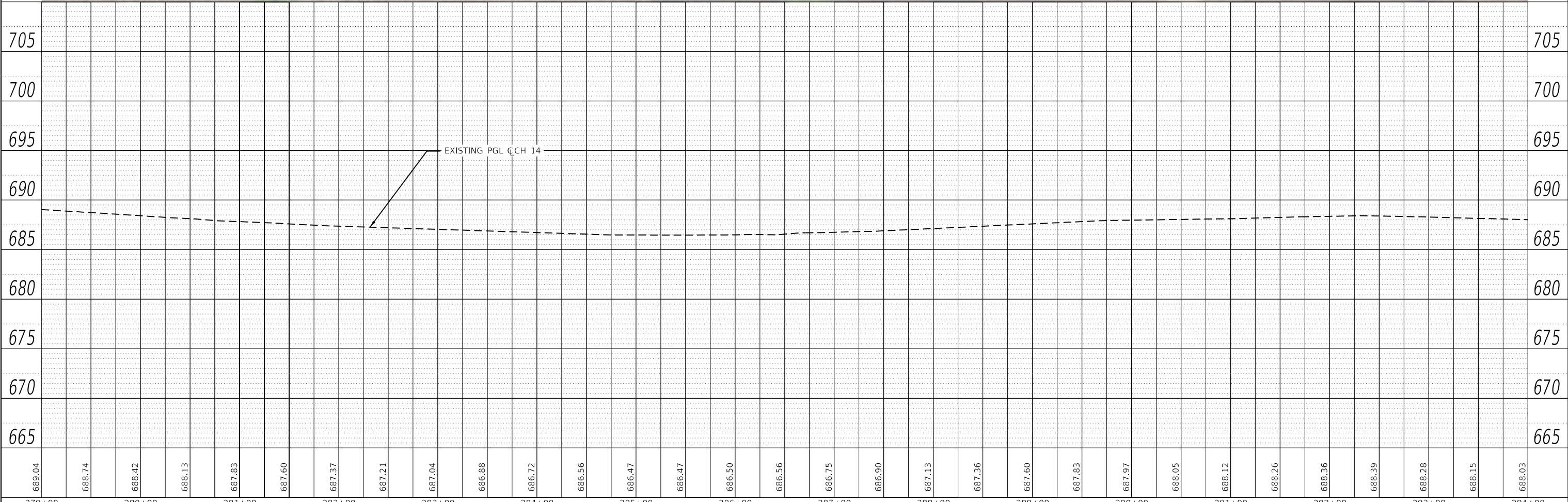
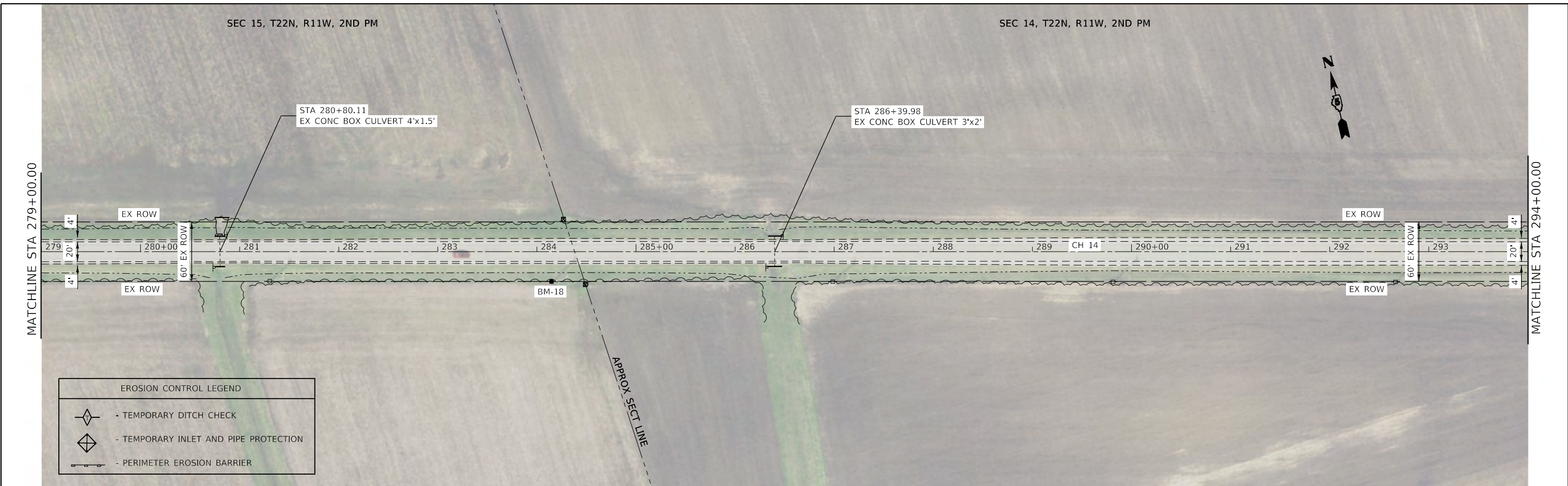
SCALE: 1"=50'      SHEET      OF      SHEETS      STA.      TO      STA.

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-0216-00-5P	VERMILION	80	31
CONTRACT NO. 91610			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILE NAME	
	NO.	
	NOTE BOOK	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATION	
	NO.	
	NOTE BOOK	

MODEL: Default  
 FILE NAME: C:\Users\cogler\OneDrive\Network\Support\Jobs\Active Roadway - 2624.1\Vermlion Co CH 14 Active Roadway\Drawings\2624.1-1-shit-plan\_50c.dgn



689.04	688.74	688.42	688.13	687.83	687.50	687.37	687.21	687.04	686.88	686.72	686.56	686.47	686.47	686.50	686.56	686.75	686.90	687.13	687.36	687.60	687.83	687.97	688.05	688.12	688.26	688.36	688.39	688.28	688.15	688.03	
279+00	280+00	281+00	282+00	283+00	284+00	285+00	286+00	287+00	288+00	289+00	290+00	291+00	292+00	293+00	294+00																

**CEC** Cummins  
Engineering  
Corporation  
Civil and Structural Engineering

JOB #	2624.1	DESIGNED	-	TEC	REVISED	-
FILE NAME	= 007 - 2624.1-shit-plan_50c.dgn	DRAWN	-	TEC	REVISED	-
PLOT SCALE	= 100.0000' / in.	CHECKED	-	CGF	REVISED	-
PLOT DATE	= 10/7/2021	DATE	-	10-6-2021	REVISED	-

**VERMILION COUNTY  
CH 14 IMPROVEMENT**

**PLAN AND PROFILE SHEET**

SCALE: 1"=50'      SHEET      OF      SHEETS      STA.      TO      STA.

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	32
CONTRACT NO.			91610	
ILLINOIS		FED. AID PROJECT		



PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILE NAME	
	NO.	

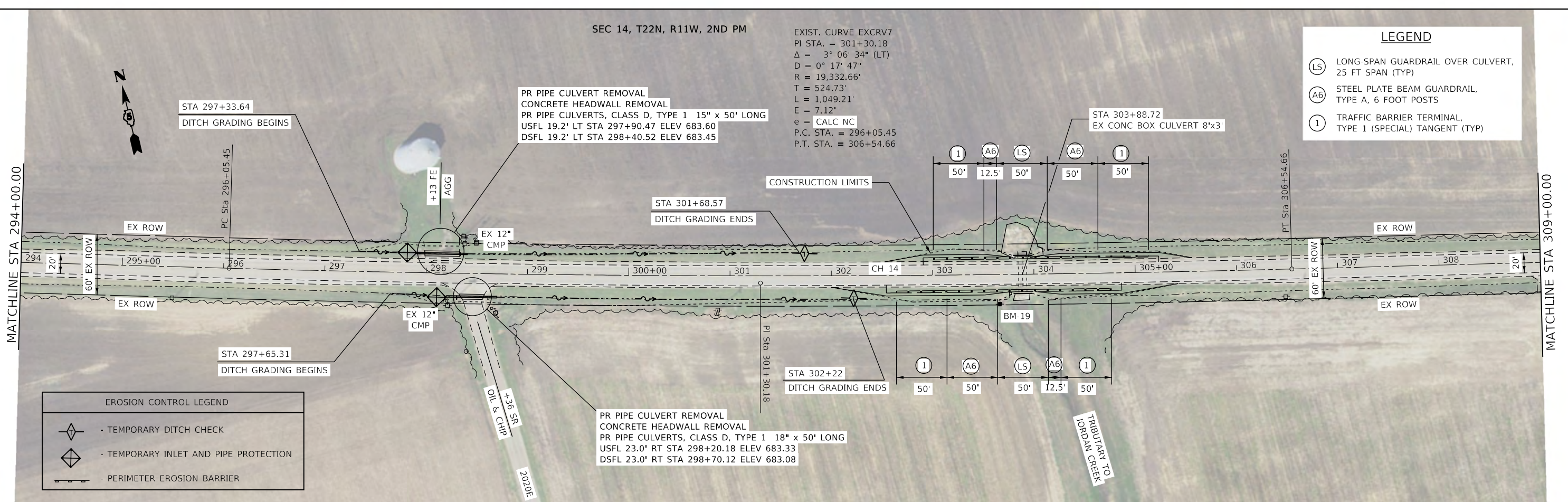
PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	

SEC 14, T22N, R11W, 2ND PM

EXIST. CURVE EXCRV7  
 PI STA. = 301+30.18  
 $\Delta = 3^\circ 06' 34''$  (LT)  
 $D = 0^\circ 17' 47''$   
 $R = 19,332.66'$   
 $T = 524.73'$   
 $L = 1,049.21'$   
 $E = 7.12'$   
 $e = \text{CALC NC}$   
 P.C. STA. = 296+05.45  
 P.T. STA. = 306+54.66

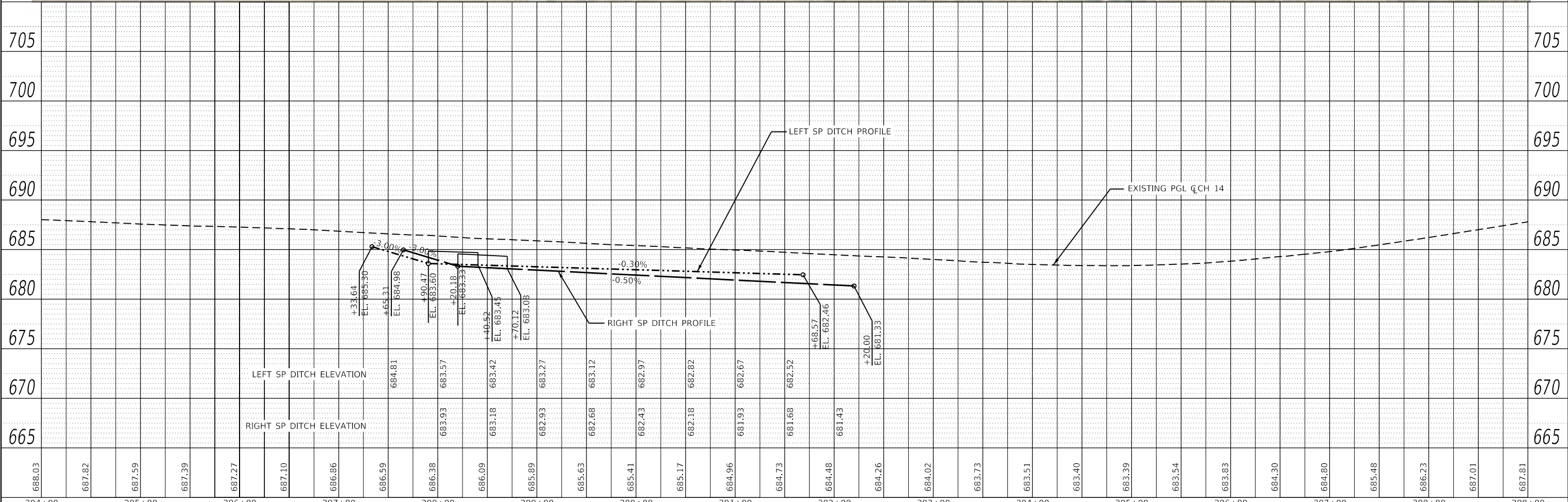
**LEGEND**

- (LS) LONG-SPAN GUARDRAIL OVER CULVERT, 25 FT SPAN (TYP)
- (A6) STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS
- (1) TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT (TYP)



**EROSION CONTROL LEGEND**

- TEMPORARY DITCH CHECK
- TEMPORARY INLET AND PIPE PROTECTION
- PERIMETER EROSION BARRIER



<b>Cummins Engineering Corporation</b> Civil and Structural Engineering	JOB = 2624.1	DESIGNED - TEC	REVISED -	<b>VERMILION COUNTY</b> <b>CH 14 IMPROVEMENT</b>	<b>PLAN AND PROFILE SHEET</b>			F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	FILE NAME = 007 - 2624.1-sht-plan_50c.dgn	DRAWN - TEC	REVISED -					496	19-00216-00-5P	VERMILION	80	33
	PLOT SCALE = 100,0000' / in.	CHECKED - CGF	REVISED -					CONTRACT NO. 91610				
	PLOT DATE = 10/7/2021	DATE - 10-6-2021	REVISED -					ILLINOIS FED. AID PROJECT				

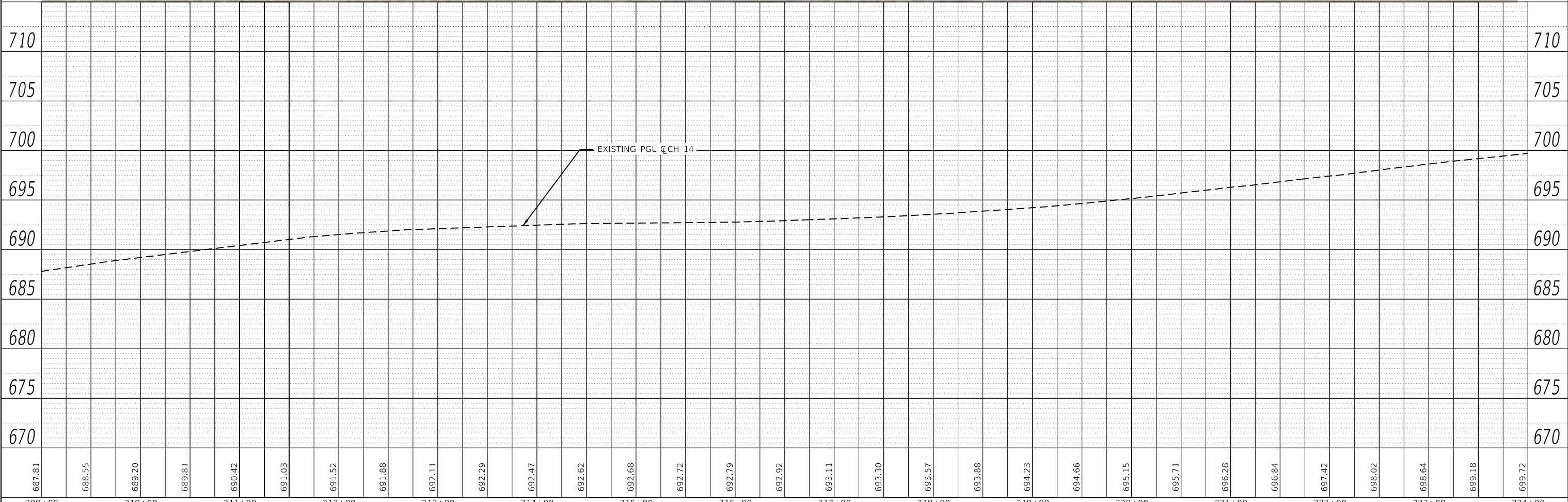
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SEC 14, T22N, R11W, 2ND PM

PLAN	SURVEYED	DATE
	BY	
NOTE BOOK NO.	ALIGNED	CHECKED
	FILE NAME	NO.

PROFILE	SURVEYED	DATE
	BY	
NOTE BOOK NO.	GRADES CHECKED	CHECKED
	FILE NAME	NO.

MODEL: Default  
FILE NAME: C:\Users\cort@vermilioncounty.net\Public\Projects\2024\19-00216-00-5P\CH 14.dwg



687.81	688.55	689.20	689.81	690.42	691.03	691.52	691.88	692.11	692.29	692.47	692.62	692.68	692.72	692.79	692.92	693.11	693.30	693.57	693.88	694.23	694.66	695.15	695.71	696.28	696.84	697.42	698.02	698.64	699.18	699.72		
309+00	310+00	311+00	312+00	313+00	314+00	315+00	316+00	317+00	318+00	319+00	320+00	321+00	322+00	323+00	324+00																	

**CEC** Cummins Engineering Corporation  
Civil and Structural Engineering

JOB #	2624.1	DESIGNED	TEC	REVISIONS	
FILE NAME	007 - 2624.1-1-sht-plan_50c.dwg	DRAWN	TEC	REVISIONS	
PLOT SCALE	100.0000' / 1"	CHECKED	CGF	REVISIONS	
PLOT DATE	10/7/2021	DATE	10-6-2021	REVISIONS	

**VERMILION COUNTY  
CH 14 IMPROVEMENT**

**PLAN AND PROFILE SHEET**

SCALE: 1"=50'      SHEET      OF      SHEETS      STA.      TO      STA.

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	34
CONTRACT NO.			91610	
ILLINOIS		FED. AID PROJECT		

SEC 14, T22N, R11W, 2ND PM

EXIST. CURVE EXCRV8  
 PI STA. = 325+19.55  
 $\Delta = 6^\circ 06' 57''$  (RT)  
 $D = 0^\circ 38' 02''$   
 $R = 9,040.01'$   
 $T = 482.93'$   
 $L = 964.93'$   
 $E = 12.89'$   
 $e = \text{CALC NC}$   
 P.C. STA. = 320+36.62  
 P.T. STA. = 330+01.56

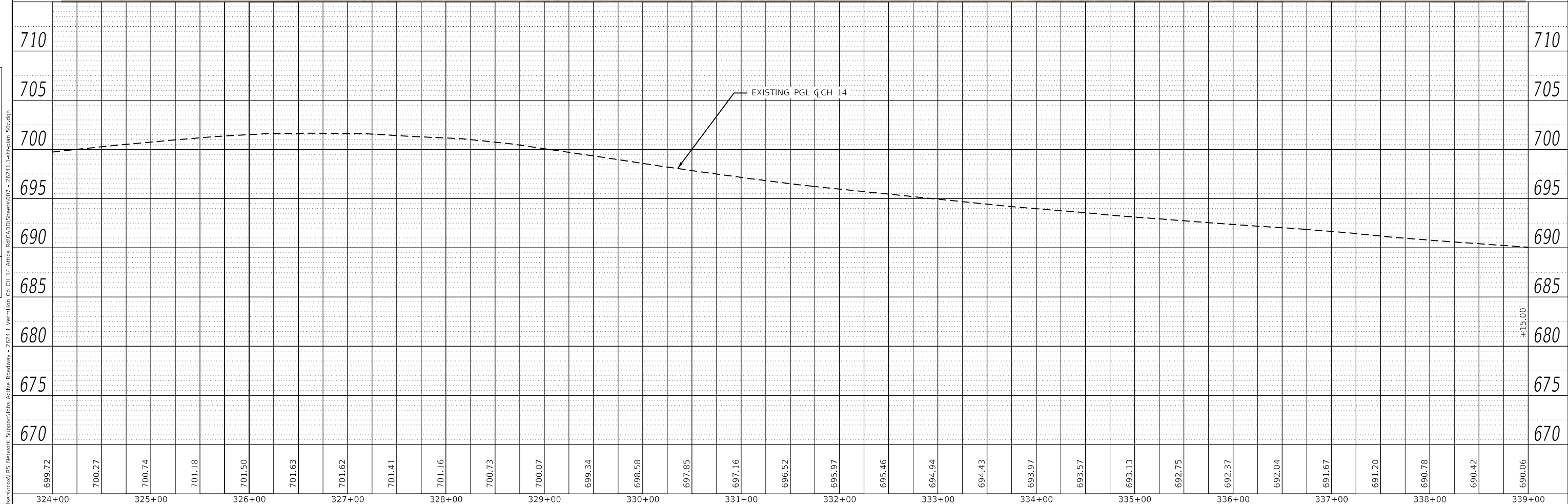


PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATIONS	
	NO.	



EROSION CONTROL LEGEND	
	- TEMPORARY DITCH CHECK
	- TEMPORARY INLET AND PIPE PROTECTION
	- PERIMETER EROSION BARRIER



699.72	700.27	700.74	701.18	701.50	701.63	701.62	701.41	701.16	700.73	700.07	699.34	698.58	697.85	697.16	696.52	695.97	695.46	694.94	694.43	693.97	693.57	693.13	692.75	692.37	692.04	691.67	691.20	690.78	690.42	690.06
324+00	325+00	326+00	327+00	328+00	329+00	330+00	331+00	332+00	333+00	334+00	335+00	336+00	337+00	338+00	339+00															

**CEC** Cummins Engineering Corporation  
 Civil and Structural Engineering

JOB = 2624.1	DESIGNED - TEC	REVISED -
FILE NAME = 007 - 26241.1-sht-plan_50c.dgn	DRAWN - TEC	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - CGF	REVISED -
PLOT DATE = 10/7/2021	DATE - 10-6-2021	REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

PLAN AND PROFILE SHEET			
SCALE: 1"=50'	SHEET	OF SHEETS	STA. TO STA.

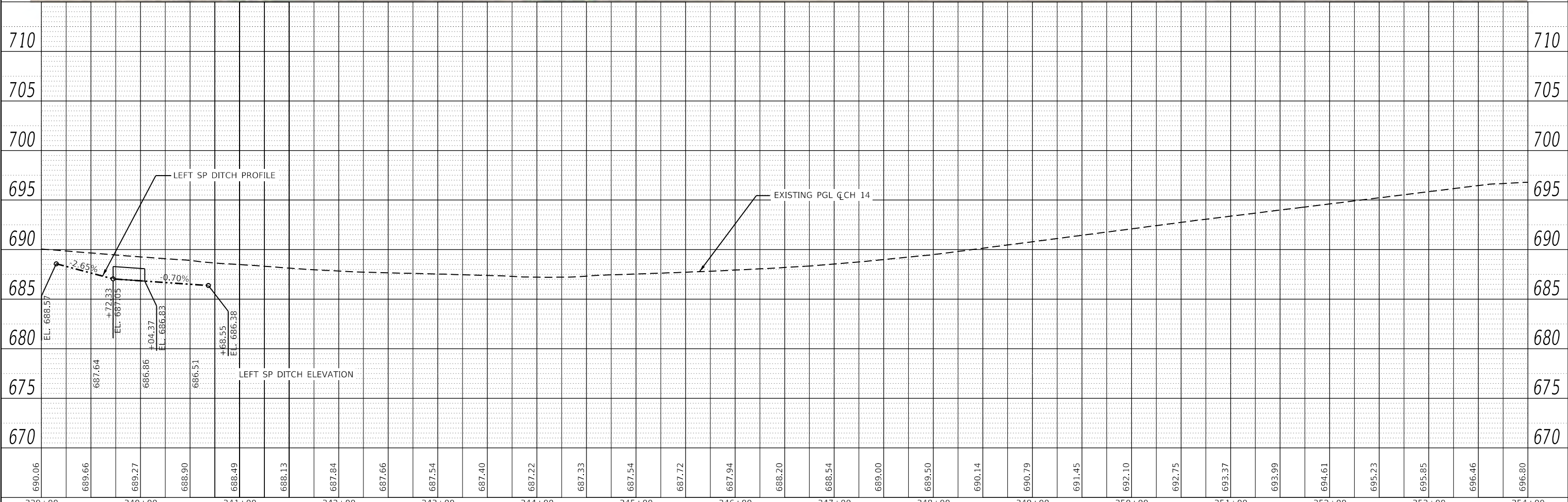
F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	35
CONTRACT NO. 91610			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	BY	DATE
	PLOTTED		
	ALIGNED		
	CHECKED		
	FILE NAME		
	NO.		



EROSION CONTROL LEGEND	
	- TEMPORARY DITCH CHECK
	- TEMPORARY INLET AND PIPE PROTECTION
	- PERIMETER EROSION BARRIER

PROFILE	SURVEYED	BY	DATE
	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS CHECKED		
	NO.		

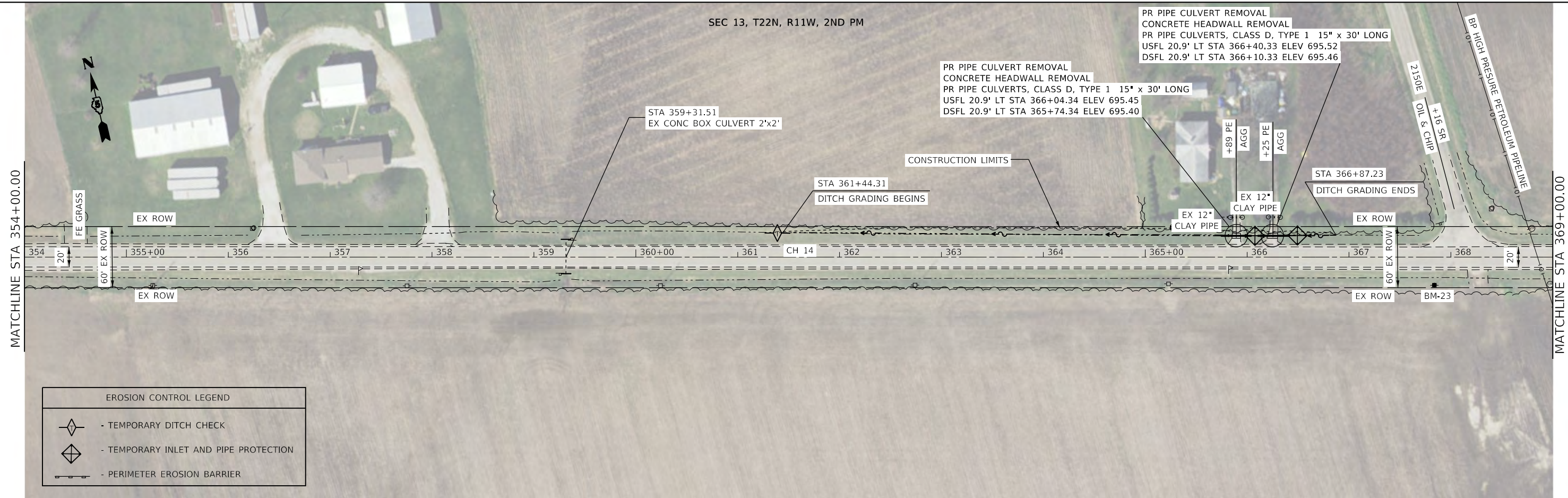


<b>Cummins Engineering Corporation</b> Civil and Structural Engineering	JOB # 2624.1 FILE NAME = 007 - 2624.1-shit-plan_50c.dgn PLOT SCALE = 100,0000' / in. PLOT DATE = 10/7/2021	DESIGNED - TEC DRAWN - TEC CHECKED - CGF DATE - 10-6-2021	REVISED - REVISED - REVISED - REVISED -	<b>VERMILION COUNTY CH 14 IMPROVEMENT</b>	<b>PLAN AND PROFILE SHEET</b>		F.A.S. RTE 496 SECTION 19-00216-00-5P COUNTY VERMILION CONTRACT NO. 91610	TOTAL SHEETS 80 SHEET NO. 36
	SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.	ILLINOIS FED. AID PROJECT						

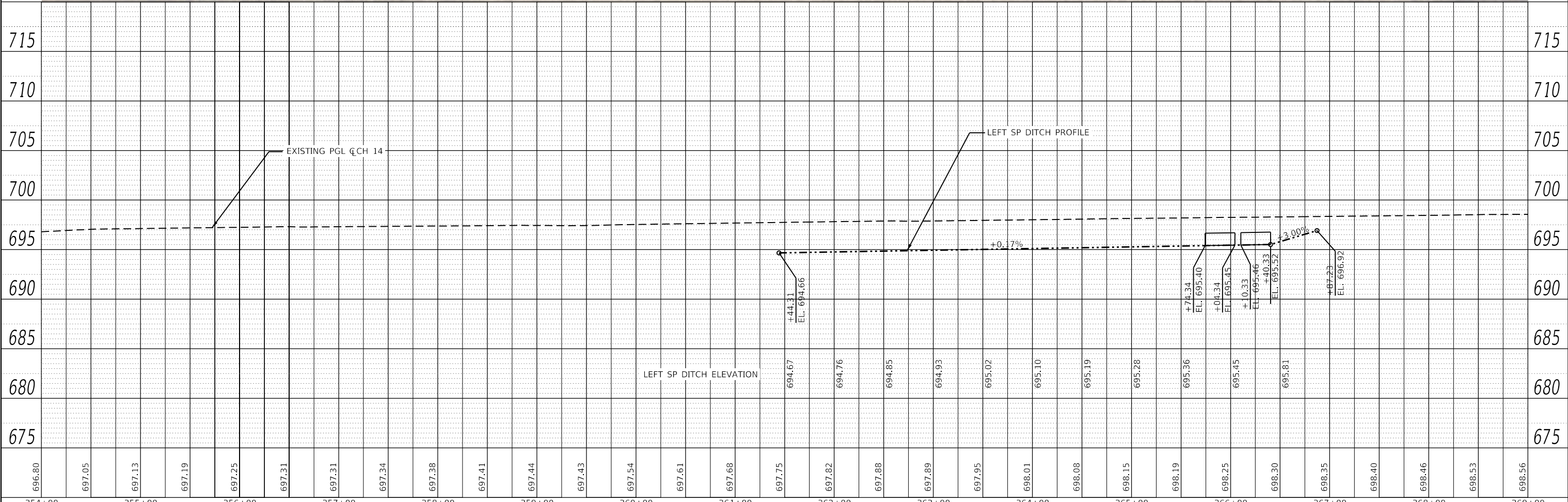
PLAN	SURVEYED	DATE
	PLOTTED	
NOTE BOOK	ALIGNED CHECKED	
	STRUCTURE NOTATIONS CHECKED	
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PROFILE	SURVEYED	DATE
	PLOTTED	
NOTE BOOK	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	

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 Co: CH 14  
 File Path: C:\Users\cort@vermilioncounty.net\Public\Projects\2624\1\shht-plan\_50c.dgn



EROSION CONTROL LEGEND	
	- TEMPORARY DITCH CHECK
	- TEMPORARY INLET AND PIPE PROTECTION
	- PERIMETER EROSION BARRIER



696.80	697.05	697.13	697.19	697.25	697.31	697.31	697.34	697.38	697.41	697.44	697.43	697.54	697.61	697.68	697.75	697.82	697.88	697.89	697.95	698.01	698.08	698.15	698.19	698.25	698.30	698.35	698.40	698.46	698.53	698.56	
354+00	355+00	356+00	357+00	358+00	359+00	360+00	361+00	362+00	363+00	364+00	365+00	366+00	367+00	368+00	369+00																

**CEC** Cummins Engineering Corporation  
 Civil and Structural Engineering

JOB = 2624.1	DESIGNED - TEC	REVISED -
FILE NAME = 007 - 2624.1-shht-plan_50c.dgn	DRAWN - TEC	REVISED -
PLOT SCALE = 100.0000' / 1"	CHECKED - CGF	REVISED -
PLOT DATE = 10/7/2021	DATE - 10-6-2021	REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**PLAN AND PROFILE SHEET**

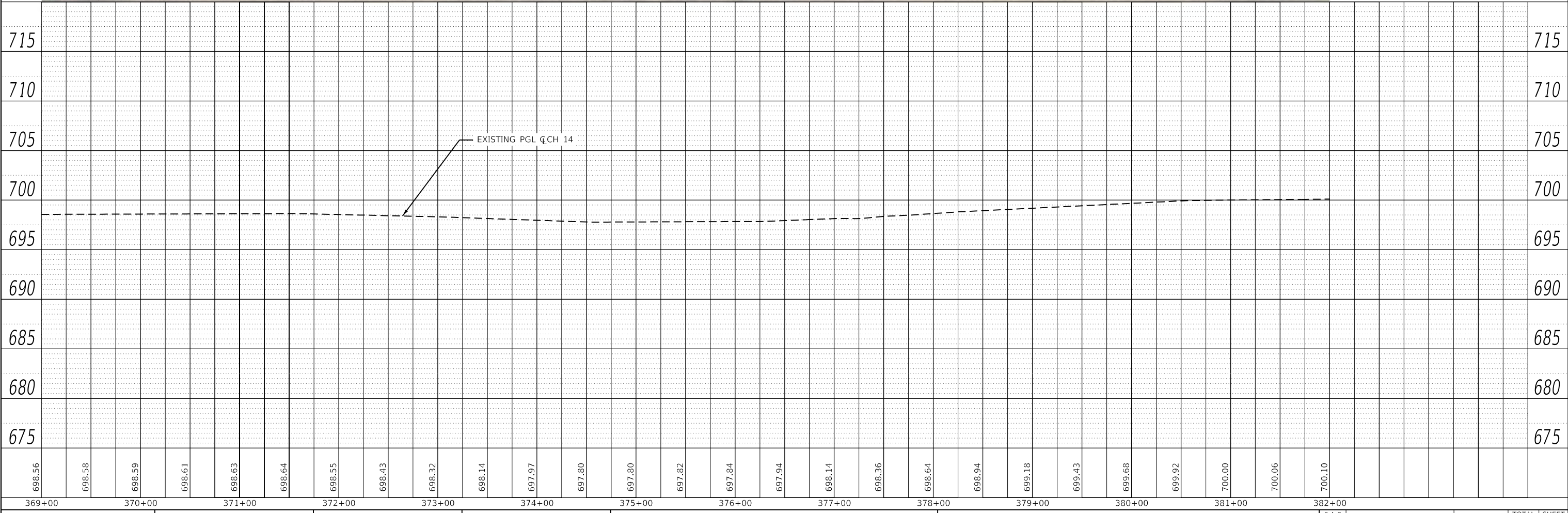
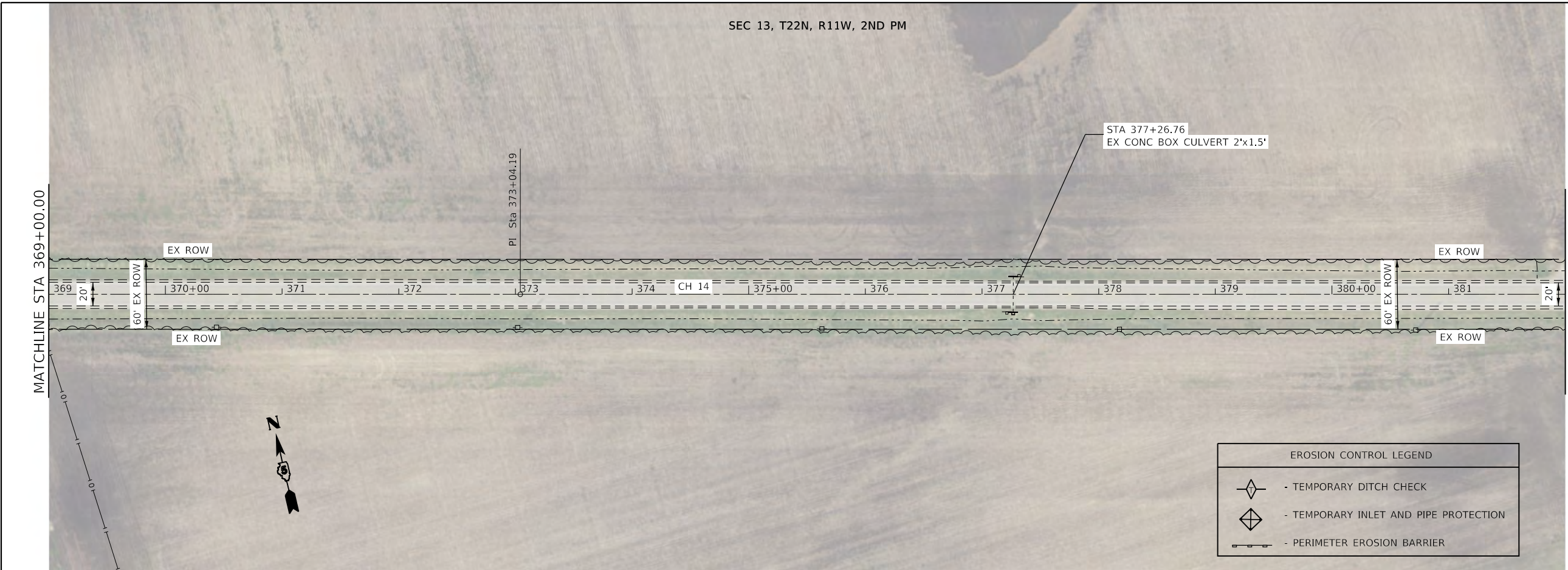
SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	37
CONTRACT NO. 91610			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	CAD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NO.	

MODEL: Default  
FILE NAME: C:\Users\ctw\OneDrive\Network\Support\Jobs Active\Roadway - 2624.1\Vermon Co CH 14 Active\rf02\plan\_50c.dgn



369+00	370+00	371+00	372+00	373+00	374+00	375+00	376+00	377+00	378+00	379+00	380+00	381+00	382+00
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DESIGNED - TEC	REVISER -
DRAWN - TEC	REVISER -
CHECKED - CGF	REVISER -
DATE - 10-6-2021	REVISER -

### VERMILION COUNTY CH 14 IMPROVEMENT

PLAN AND PROFILE SHEET			
SCALE: 1"=50'	SHEET	OF SHEETS	STA. TO STA.

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	38
CONTRACT NO. 91610				

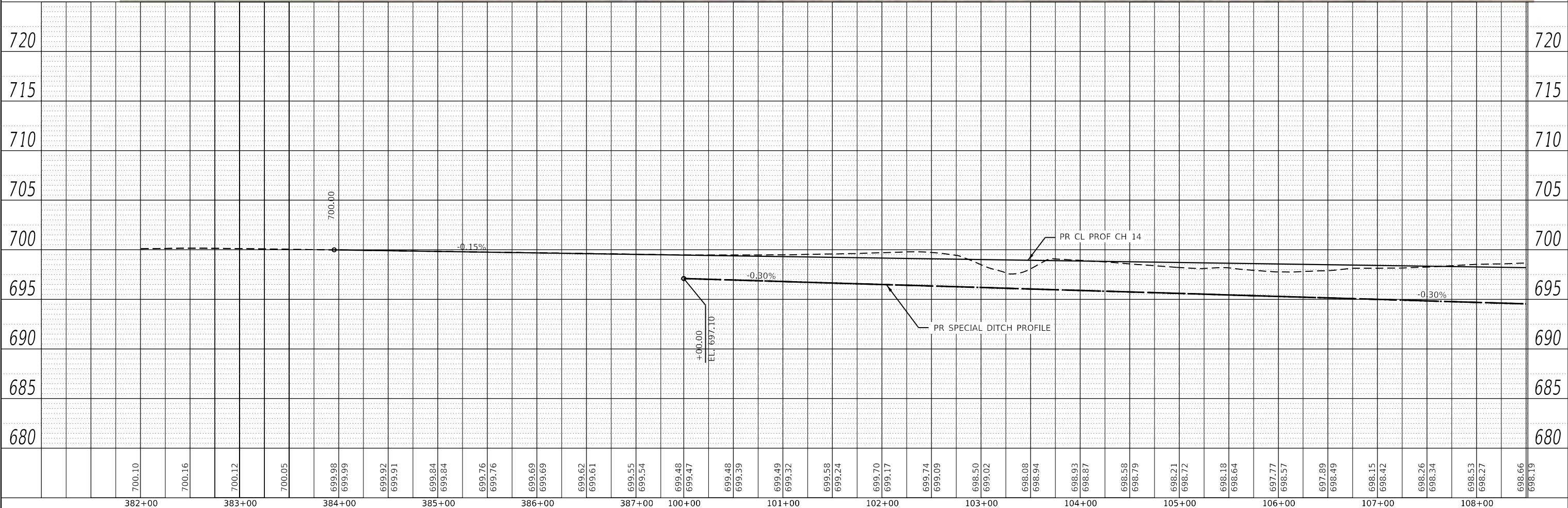
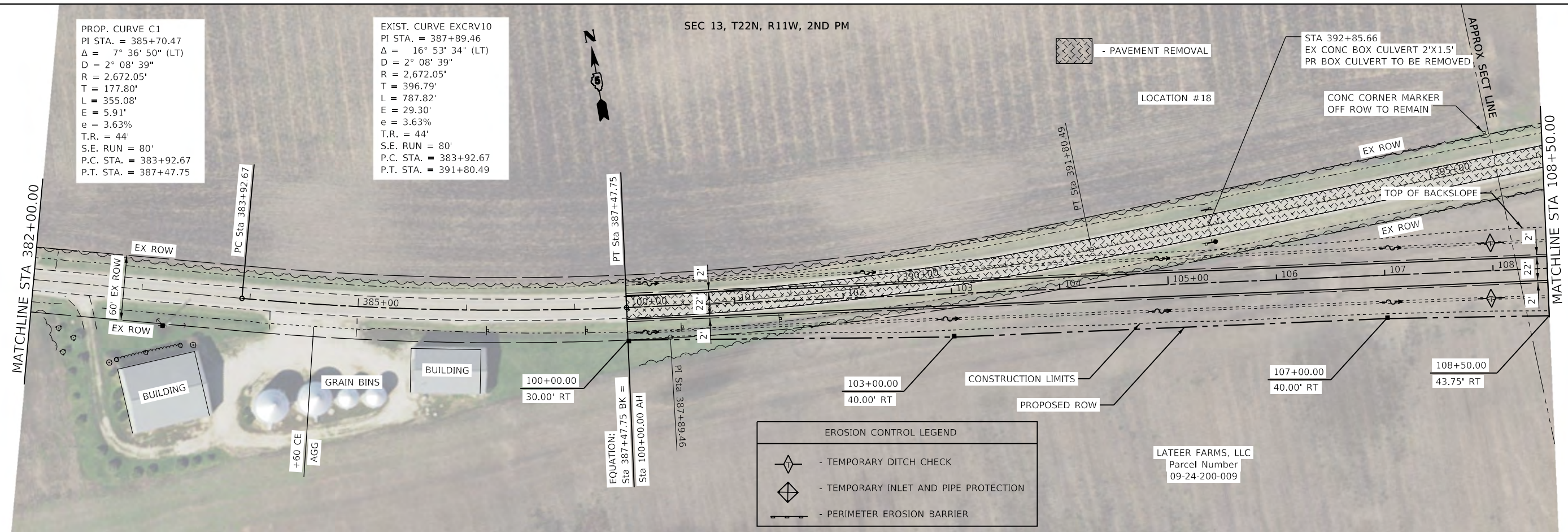
**CEC** Cummins Engineering Corporation  
Civil and Structural Engineering

JOB = 2624.1  
FILE NAME = 007 - 2624.1-1-shit-plan\_50c.dgn  
PLOT SCALE = 100.0000' / 1" in.  
PLOT DATE = 10/7/2021

PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	CHECKED
	GRADES	FILE NAME
	STRUCTURE	NO.
	NOTES	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES	CHECKED
	STRUCTURE	FILE NAME
	NOTES	NO.
	NO.	

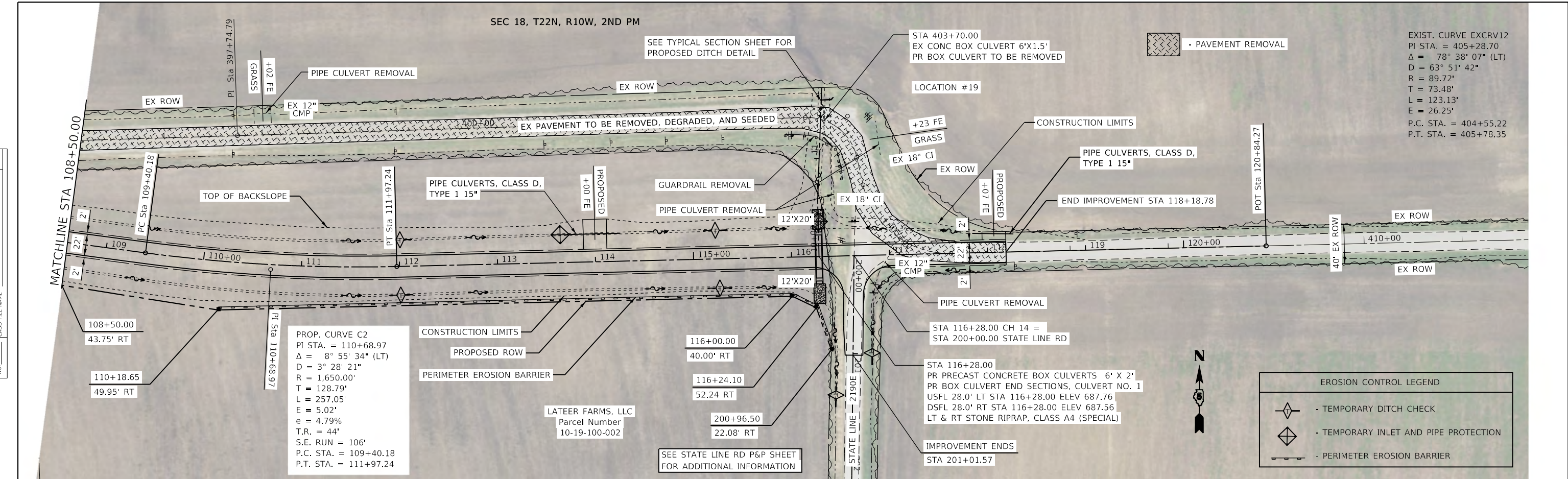
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PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATIONS	
	NO.	



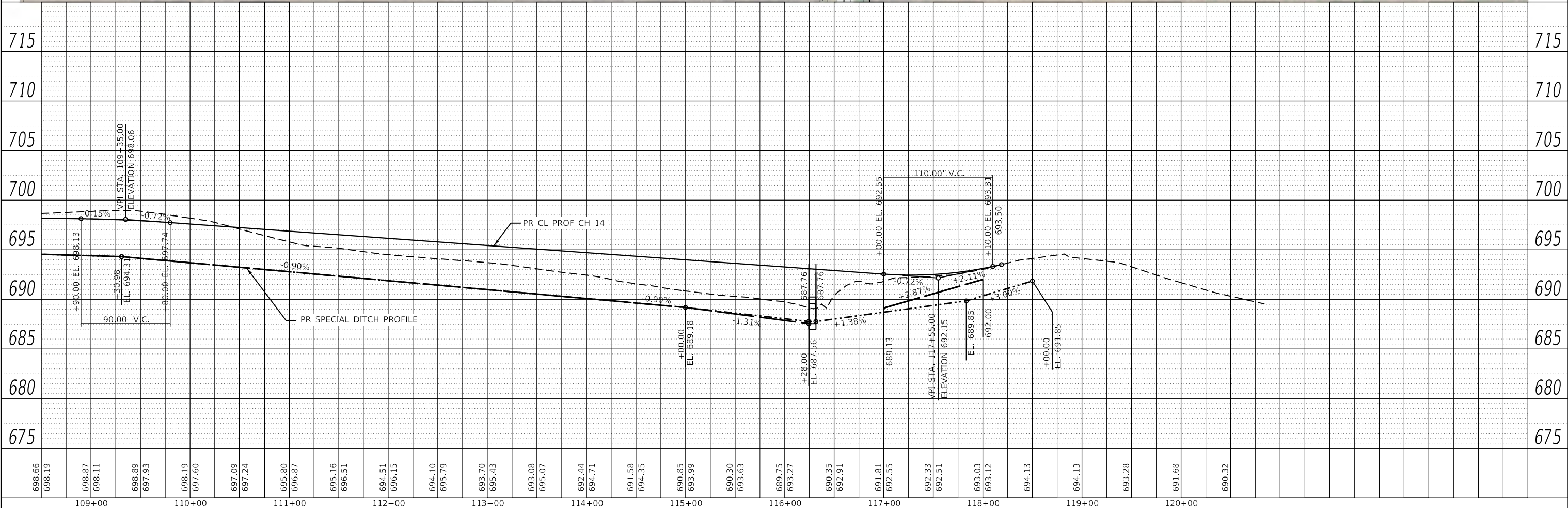
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 $D = 63^\circ 51' 42''$   
 $R = 89.72'$   
 $T = 73.48'$   
 $L = 123.13'$   
 $E = 26.25'$   
 P.C. STA. = 404+55.22  
 P.T. STA. = 405+78.35

PROP. CURVE C2  
 PI STA. = 110+68.97  
 $\Delta = 8^\circ 55' 34''$  (LT)  
 $D = 3^\circ 28' 21''$   
 $R = 1,650.00'$   
 $T = 128.79'$   
 $L = 257.05'$   
 $E = 5.02'$   
 $e = 4.79\%$   
 $T.R. = 44'$   
 S.E. RUN = 106'  
 P.C. STA. = 109+40.18  
 P.T. STA. = 111+97.24

LATEER FARMS, LLC  
 Parcel Number  
 10-19-100-002

SEE STATE LINE RD P&P SHEET  
 FOR ADDITIONAL INFORMATION

EROSION CONTROL LEGEND	
	- TEMPORARY DITCH CHECK
	- TEMPORARY INLET AND PIPE PROTECTION
	- PERIMETER EROSION BARRIER



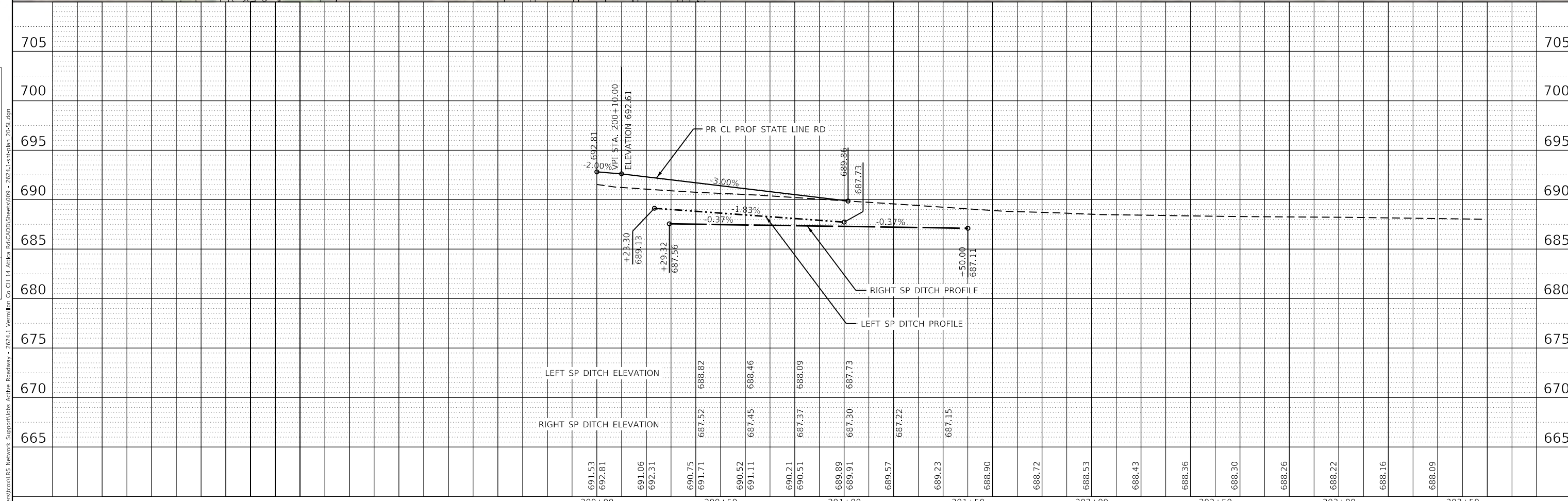
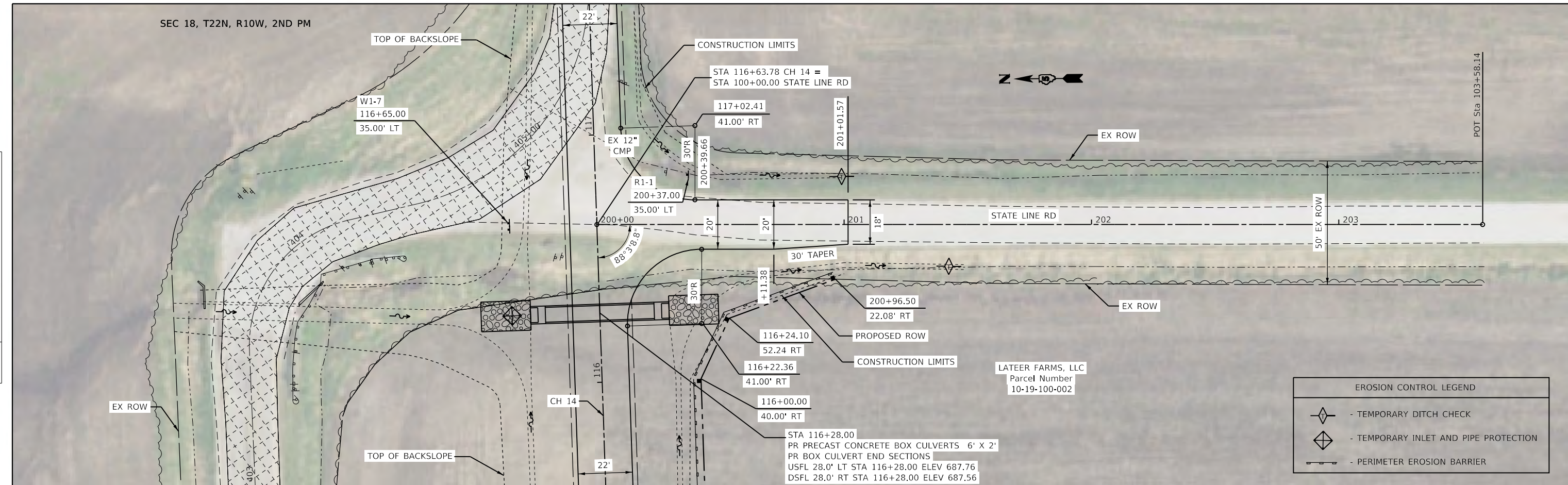
<b>Cummins Engineering Corporation</b> Civil and Structural Engineering	JOB = 2624.1 FILE NAME = C:\Users\ctcox\LRN Network Support\Jobs - 2624.1\Drawings\2624.1-sht-plan_50-2.dgn PLOT SCALE = 100,0000 ' / In. PLOT DATE = 10/7/2021	DESIGNED - TEC CHECKED - CGF DATE - 10-6-2021	REVISED - REVISED - REVISED -	<b>VERMILION COUNTY          CH 14 IMPROVEMENT</b>	<b>PLAN AND PROFILE SHEET</b> SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.	F.A.S. RTE 496 SECTION 19-00216-00-5P COUNTY VERMILION TOTAL SHEETS 80 SHEET NO. 40 CONTRACT NO. 91610 ILLINOIS FED. AID PROJECT
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SEC 18, T22N, R10W, 2ND PM

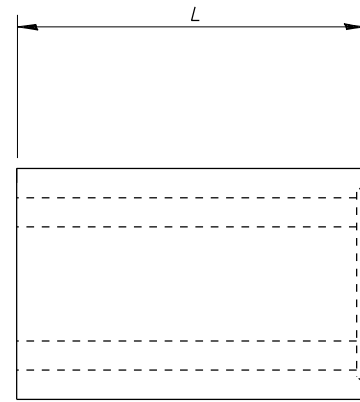
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	PLOTTED	
	ALIGNED	
	CHECKED	
	CAD FILE NAME	
	NO.	
	BY	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES	
	CHECKED	
	STRUCTURE	
	NOTATION	
	NO.	
	BY	

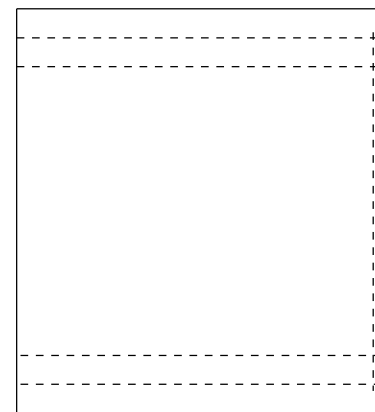


<b>CEC</b> Cummins Engineering Corporation Civil and Structural Engineering	JOB # 2624.1 FILE NAME = 009 - 2624.1-sht-plan_20-SL.dgn PLOT SCALE = 40,0000 ' / in. PLOT DATE = 10/7/2021	DESIGNED - TEC DRAWN - TEC CHECKED - CGF DATE - 10-6-2021	REVISED - REVISED - REVISED - REVISED -	<b>VERMILION COUNTY CH 14 IMPROVEMENT</b>	<b>PLAN PROFILE SHEET</b>	SCALE: 1"=20' SHEET OF SHEETS STA. TO STA.	F.A.S. RTE SECTION COUNTY TOTAL SHEETS SHEET NO. 496 19-00216-00-5P VERMILION 80 41 CONTRACT NO. 91610	ILLINOIS FED. AID PROJECT
--	--	--	--	---	---------------------------	---	--	---------------------------

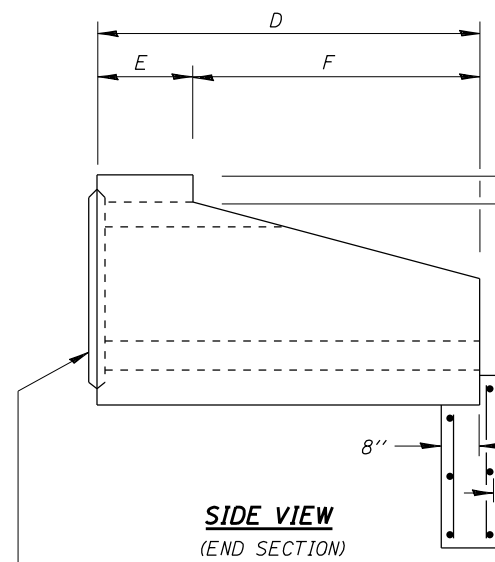
# DETAIL OF PRECAST CONCRETE BOX CULVERTS AND END SECTIONS



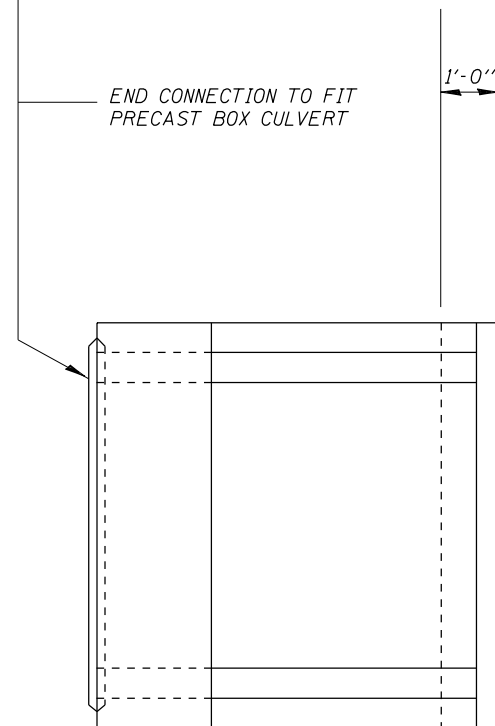
**SIDE VIEW**  
(BOX CULVERT)



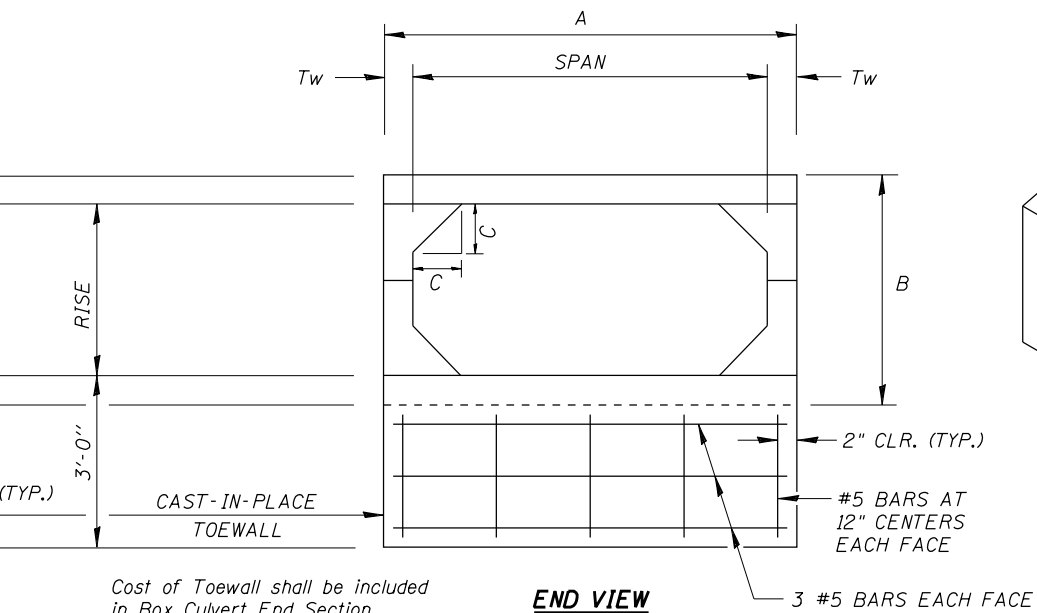
**PLAN**  
(BOX CULVERT)



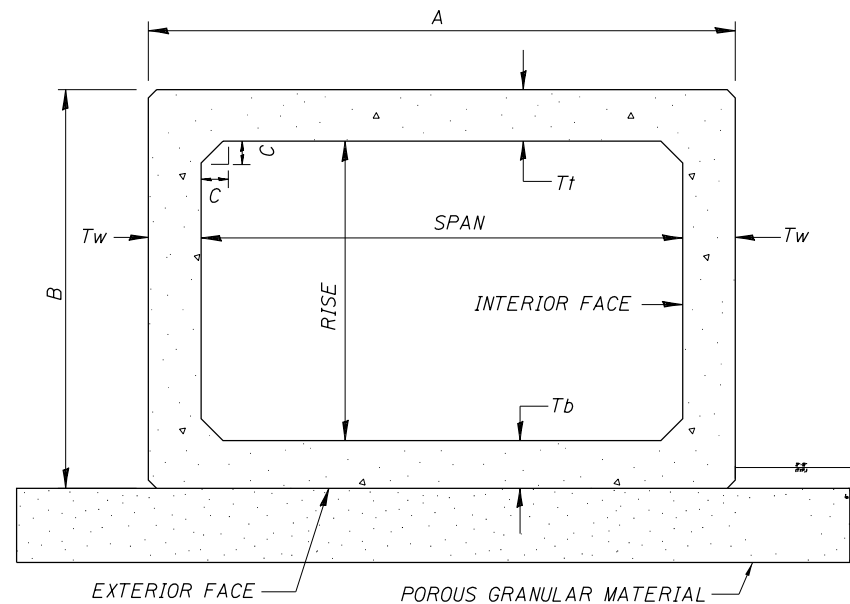
**SIDE VIEW**  
(END SECTION)



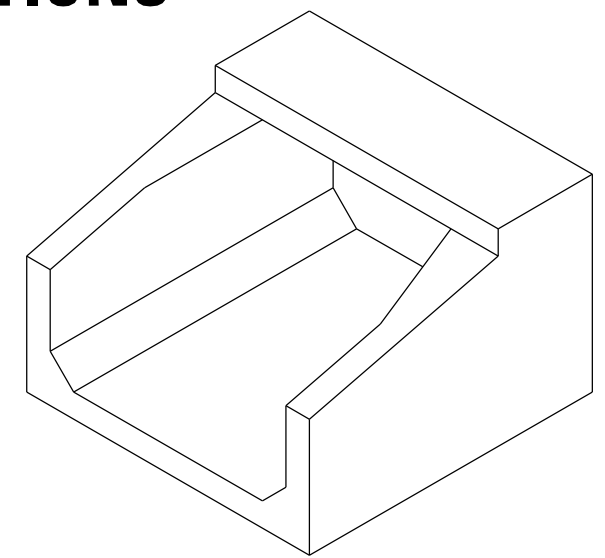
**PLAN**  
(END SECTION)



**END VIEW**



**CROSS SECTION**  
END SECTION & BOX CULVERT



**ISOMETRIC VIEW**  
(END SECTION)

**DESIGN SPECIFICATIONS**  
2017 AASHTO LRFD Bridge Design Specifications,  
8th Edition

**LOADING HL-93**

**DESIGN STRESSES (PRECAST)**

$f'_c = 5,000 \text{ psi}$   
 $f_y = 65,000 \text{ psi}$  (welded wire fabric)  
 $f_y = 60,000 \text{ psi}$  (reinforcement)

**Notes:**  
All precast concrete box culvert sections shall conform to the requirements of ASTM C 1577 Specifications.

Lifting holes shall be filled with concrete plugs and mastic after box sections are in place.

Select granular back fill is not required above the Precast Concrete Box Culvert End Sections.

**PRECAST CONCRETE BOX CULVERT - EXTENSION DETAILS**

Span	Rise	ASTM Designation	Design Fill Height	THICKNESS (INCHES)							L	SLOPE X : Y				
				Tt (top slab)	Tb (bot. slab)	Tw (wall)	A (FT.-IN.)	B (FT.-IN.)	C (INCHES)	D (FT.-IN.)			E (FT.-IN.)	F (FT.-IN.)	G (FT.-IN.)	H (FT.-IN.)
6'	2'	C1577	< 2'	7"	6"	5"	7'-2"	3'-2"	7"	6'-0"	3'-0"	3'-0"	1'-0"	1'-0"	6'-0"	1:3

**BILL OF MATERIAL**

ITEM	UNIT	TOTAL
Precast Concrete Box Culverts 6'x2'	Foot	44
Box Culvert End Section No. 1	Each	2

MODEL: Default  
FILE NAME: C:\Users\stcox\OneDrive\Network\_Support\Jobs Active\_Roadway - 2624.1\_Vermilion Co.CH 14 Attica Rd\CADD\Sheets\010 - 2624.1\_sht-details.dgn

**CEC** Cummins  
Engineering  
Corporation  
Civil and Structural Engineering

JOB = 2624.1	DESIGNED -	REVISED -
FILE NAME = 010 - 2624.1-sht-details.dgn	CHECKED -	REVISED -
PLOT DATE = 10/7/2021	DRAWN -	REVISED -
	CHECKED -	REVISED -

**VERMILION COUNTY  
CH 14 IMPROVEMENT**

**6' X 2' PRECAST CONCRETE  
BOX CULVERT END SECTION DETAIL**

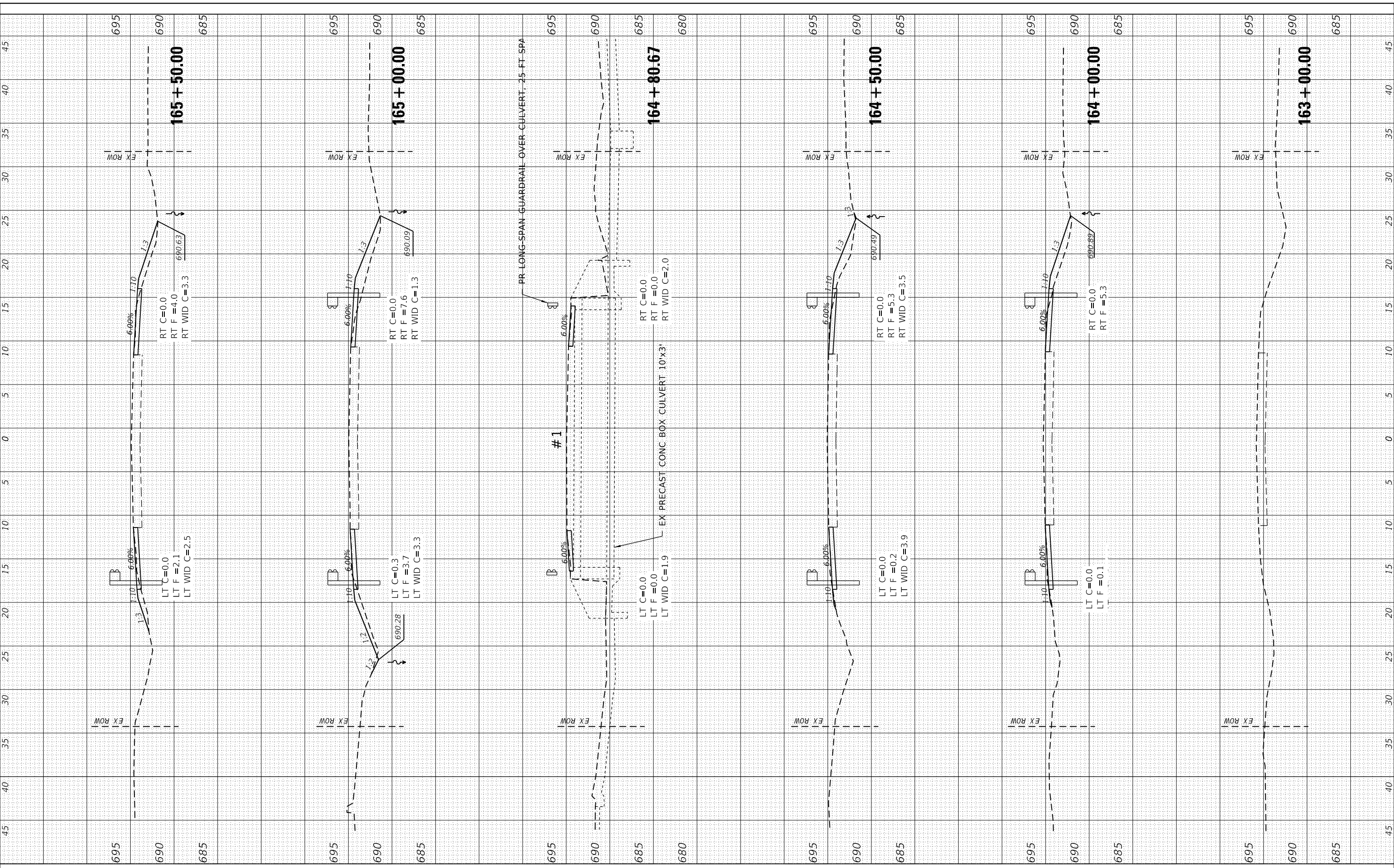
SHEET OF SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-SP	VERMILION	80	41
CONTRACT NO. 91610				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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 PLOT SCALE = 10.0000 ' / in.  
 PLOT DATE = 10/7/2021

DESIGNED - TEC  
 DRAWN - TEC  
 CHECKED - CGF  
 DATE - 10-6-2021

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**EX CH 14 CROSS SECTIONS**

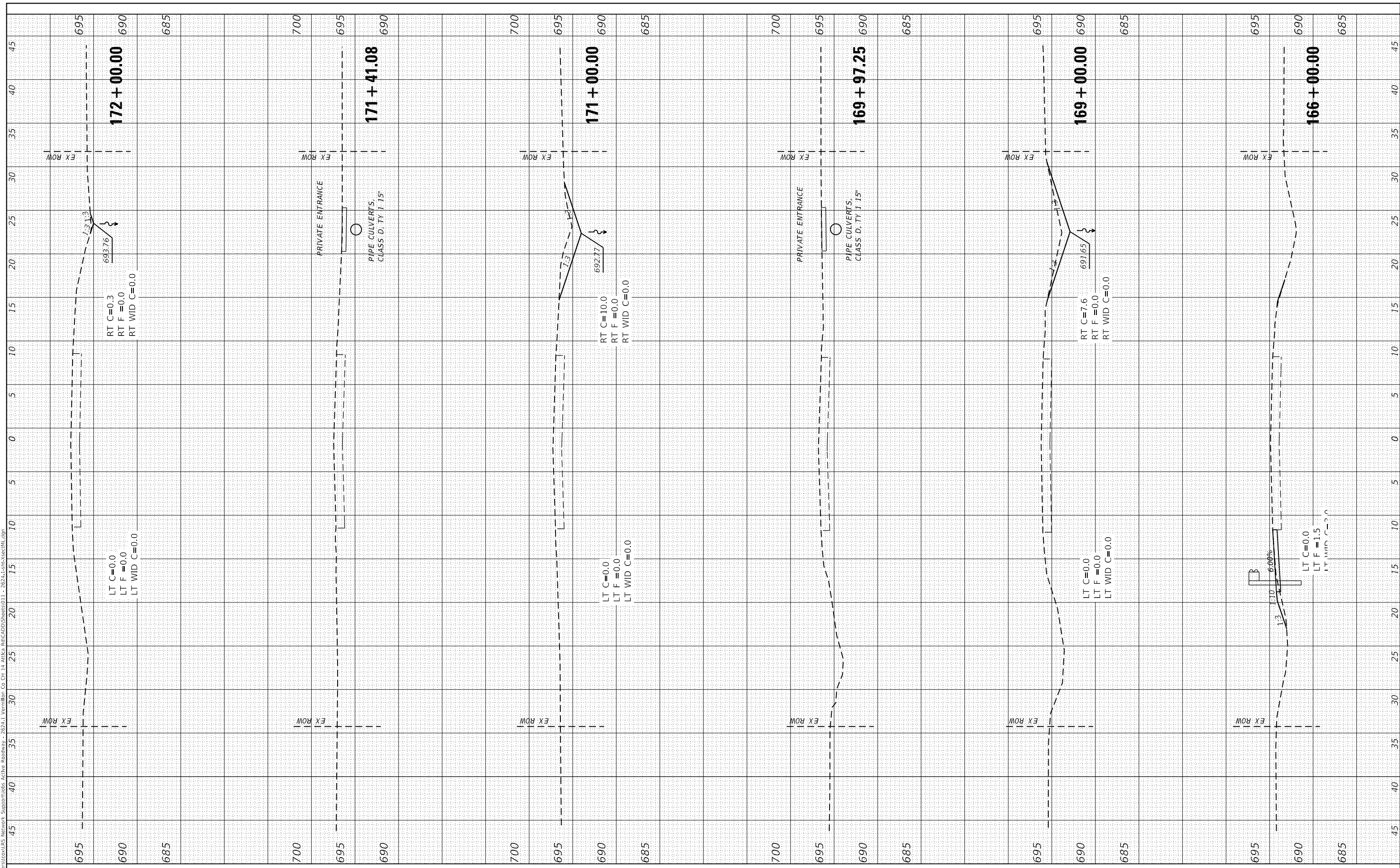
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F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-SP	VERMILION	80	43
CONTRACT NO. 91610				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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 PLOT SCALE = 10,0000 ' / in.  
 PLOT DATE = 10/7/2021

DESIGNED - TEC  
 DRAWN - TEC  
 CHECKED - CGF  
 DATE - 10-6-2021

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**EX CH 14 CROSS SECTIONS**

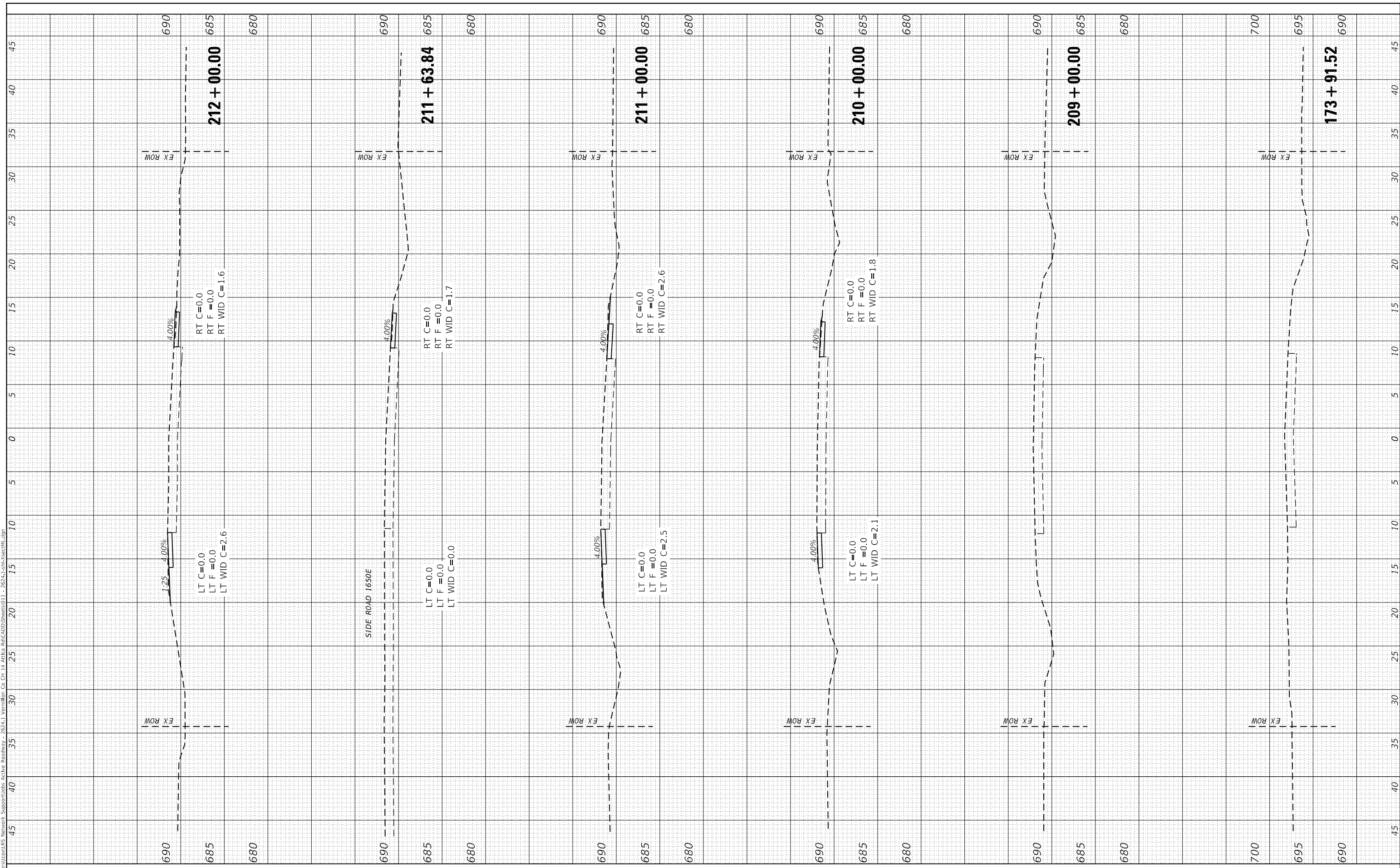
SCALE: 1"=5'      SHEET      OF      SHEETS      STA. 166+00.00      TO STA. 172+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	44
CONTRACT NO. 91610				
ILLINOIS		FED. AID PROJECT		

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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FILE NAME = 011 - 2624.1-sht-XsectML.dgn  
PLOT SCALE = 10.0000' / in.  
PLOT DATE = 10/7/2021

DESIGNED - TEC  
DRAWN - TEC  
CHECKED - CGF  
DATE - 10-6-2021

REVISED -  
REVISED -  
REVISED -  
REVISED -

**VERMILION COUNTY  
CH 14 IMPROVEMENT**

**EX CH 14 CROSS SECTIONS**

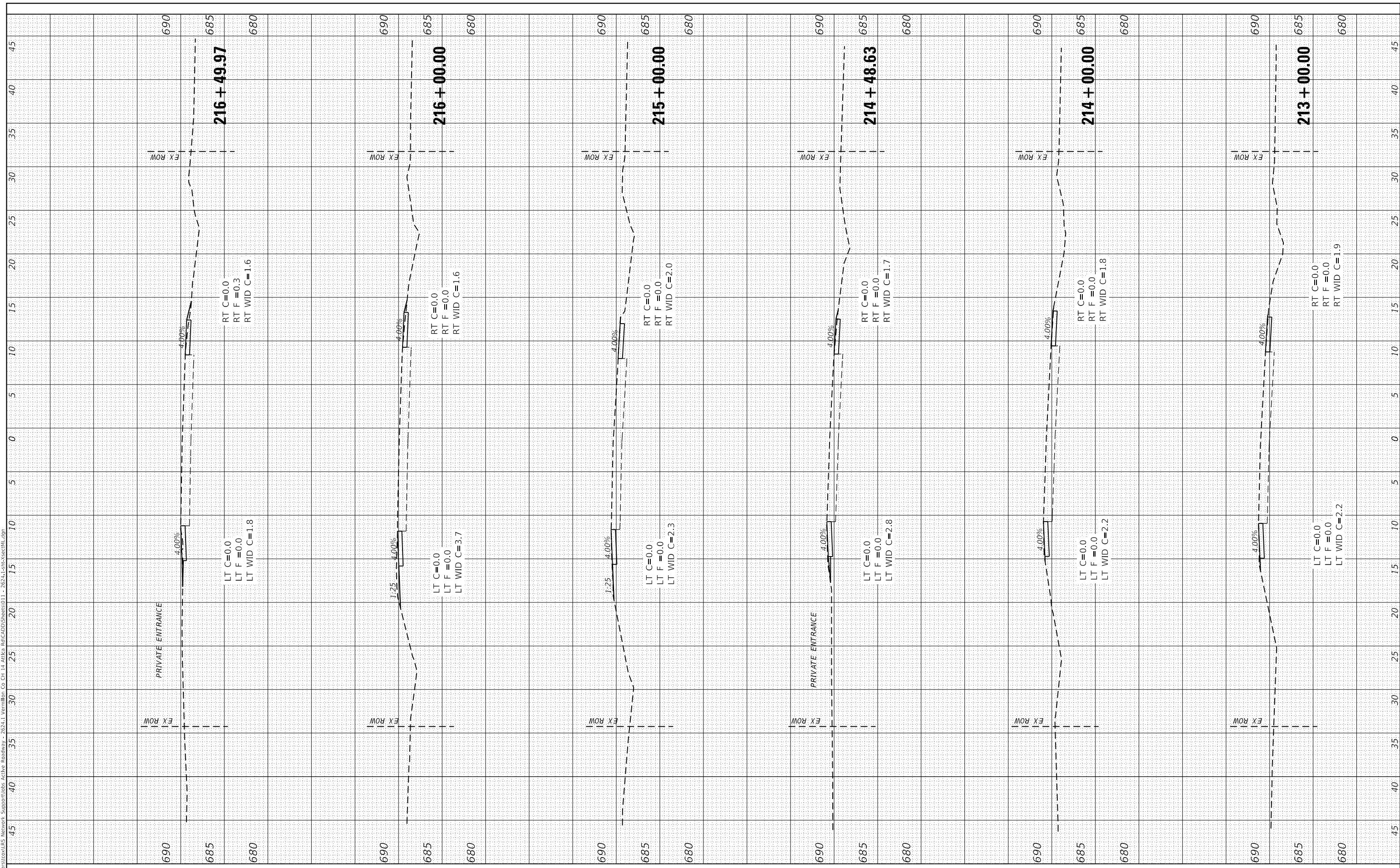
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F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	45
CONTRACT NO. 91610				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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 PLOT DATE = 10/7/2021

DESIGNED -	TEC	REVISED -	
DRAWN -	TEC	REVISED -	
CHECKED -	CGF	REVISED -	
DATE -	10-6-2021	REVISED -	

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**EX CH 14 CROSS SECTIONS**

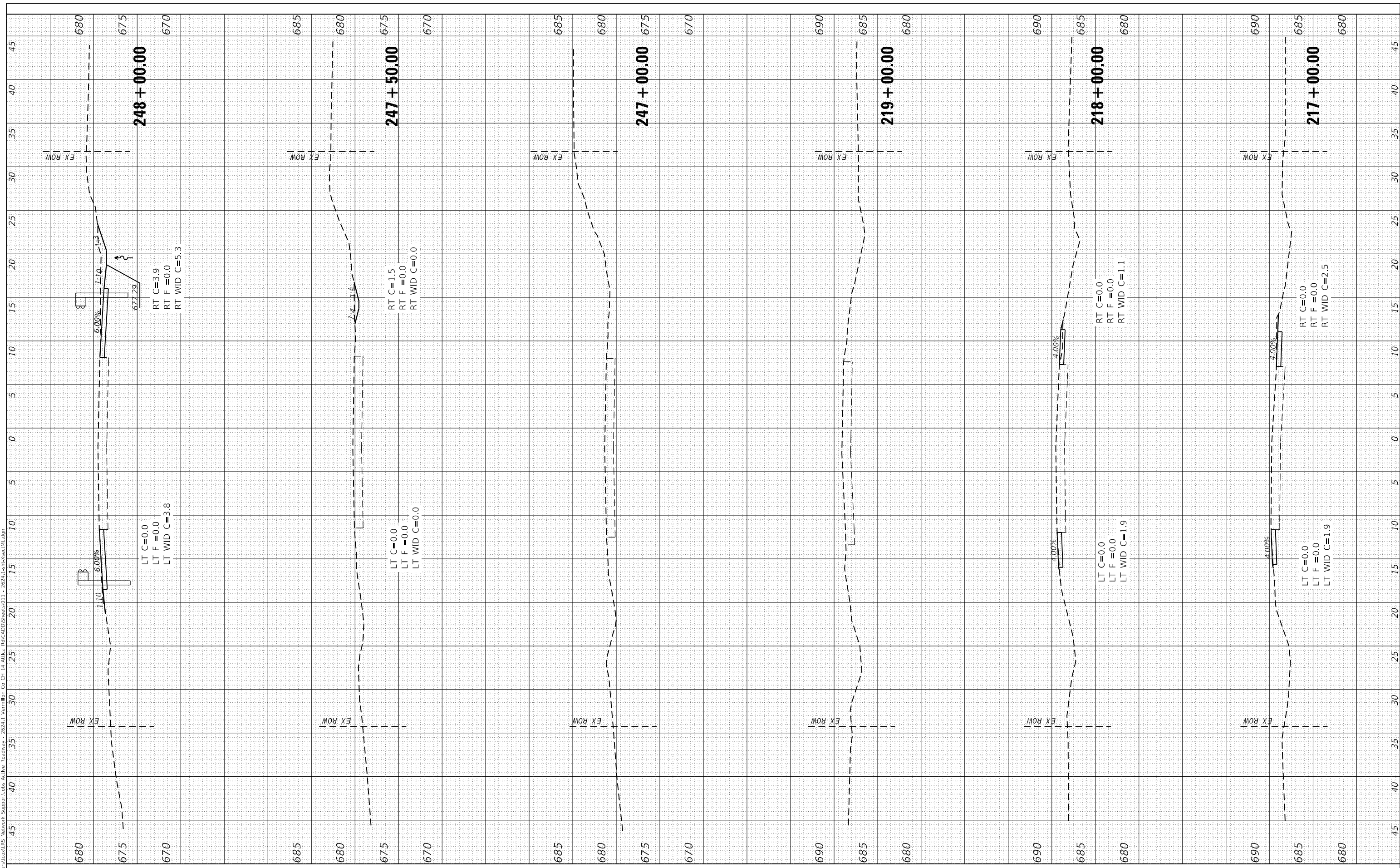
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F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	46
ILLINOIS    FED. AID PROJECT			CONTRACT NO. 91610	

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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

JOB=2624.1  
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 PLOT SCALE = 10.0000 ' / in.  
 PLOT DATE = 10/7/2021

DESIGNED - TEC  
 DRAWN - TEC  
 CHECKED - CGF  
 DATE - 10-6-2021

REVISED -  
 REVISED -  
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 REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**EX CH 14 CROSS SECTIONS**

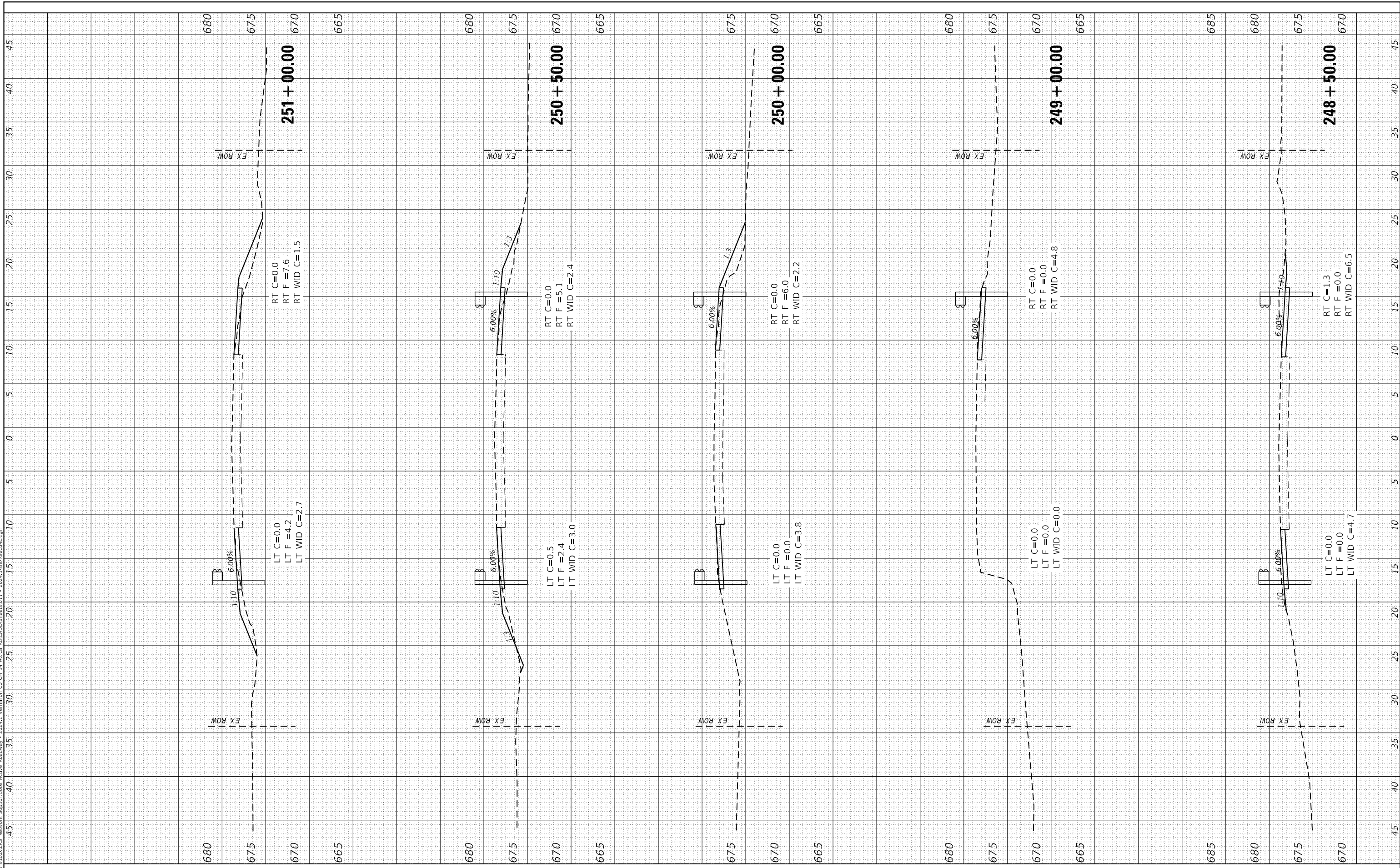
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F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	47
CONTRACT NO. 91610				
ILLINOIS		FED. AID PROJECT		

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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 PLOT DATE = 10/7/2021

DESIGNED - TEC  
 DRAWN - TEC  
 CHECKED - CGF  
 DATE - 10-6-2021

REVISED -  
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 REVISED -  
 REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**EX CH 14 CROSS SECTIONS**

SCALE: 1"=5' SHEET OF SHEETS STA. 248+50.00 TO STA. 251+00.00

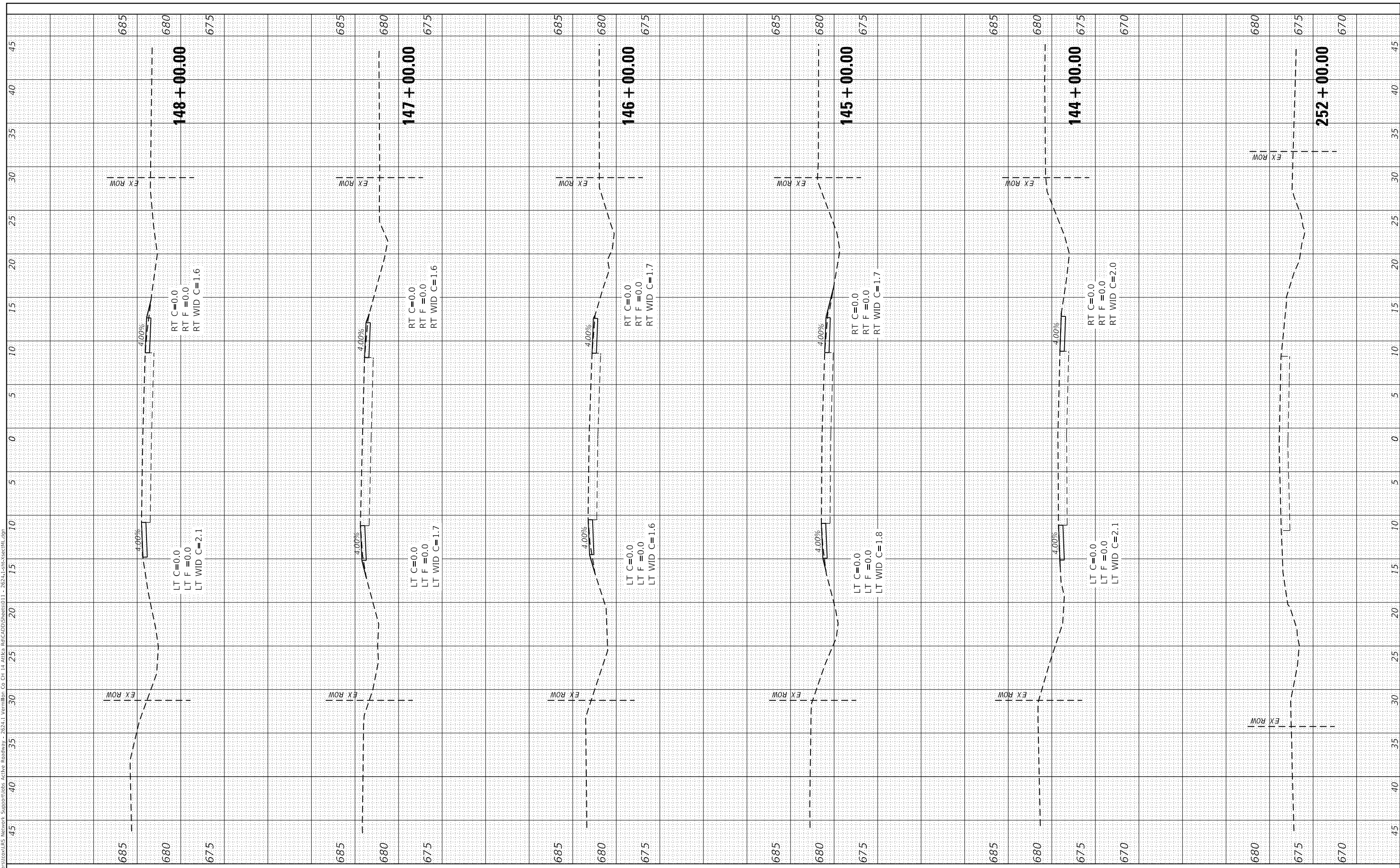
F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	48
CONTRACT NO. 91610				
ILLINOIS FED. AID PROJECT				



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

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

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 No. 26241 Vermlion Co Ch 14 Active Rd\CADD\Sheet011 - 26241-1-sht-xsectML.dgn



**CEC** Cummins  
 Engineering  
 Corporation  
 Civil and Structural Engineering

JOB=2624.1  
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 PLOT SCALE = 10.0000 ' / in.  
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DESIGNED - TEC  
 DRAWN - TEC  
 CHECKED - CGF  
 DATE - 10-6-2021

REVISED -  
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 REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**EX CH 14 CROSS SECTIONS**

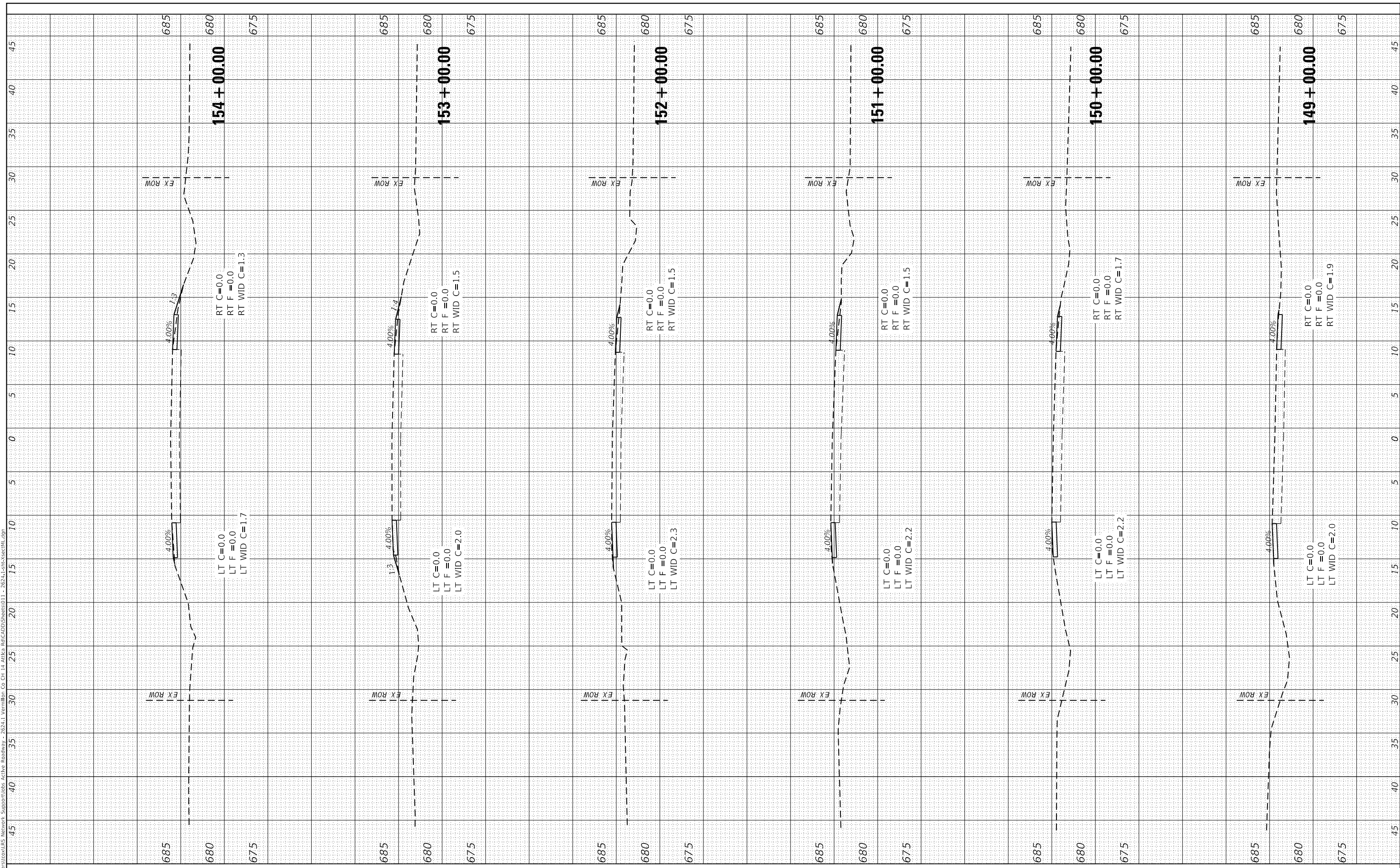
SCALE: 1"=5' SHEET OF SHEETS STA. 252+00.00 TO STA. 148+00.00

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	49
CONTRACT NO. 91610				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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DESIGNED - TEC  
 DRAWN - TEC  
 CHECKED - CGF  
 DATE - 10-6-2021

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**EX CH 14 CROSS SECTIONS**

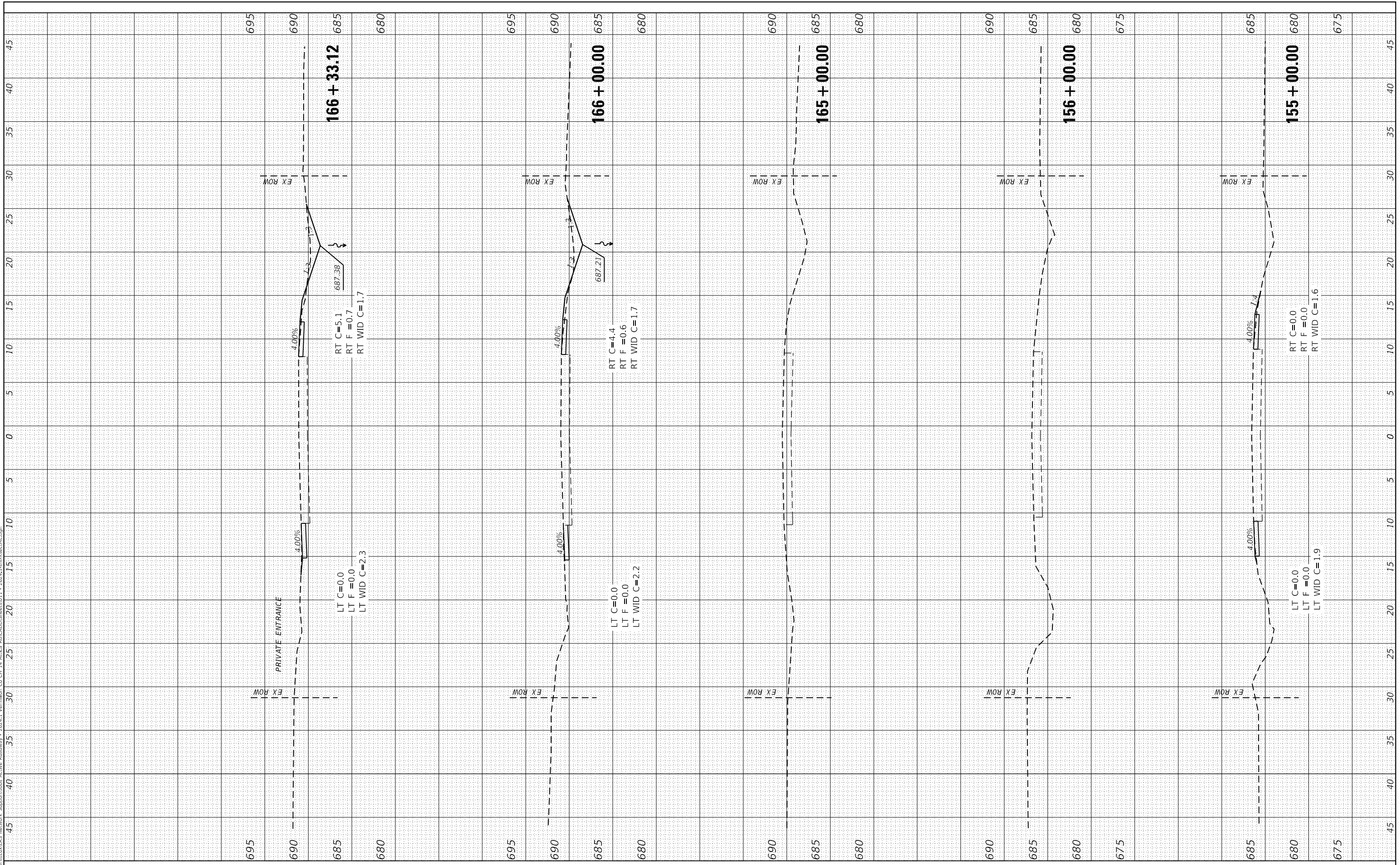
SCALE: 1"=5' SHEET OF SHEETS STA. 149+00.00 TO STA. 154+00.00

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-SP	VERMILION	80	50
CONTRACT NO. 91610				
ILLINOIS		FED. AID PROJECT		

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

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

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DESIGNED - TEC  
DRAWN - TEC  
CHECKED - CGF  
DATE - 10-6-2021

REVISED -  
REVISED -  
REVISED -  
REVISED -

**VERMILION COUNTY  
CH 14 IMPROVEMENT**

**EX CH 14 CROSS SECTIONS**

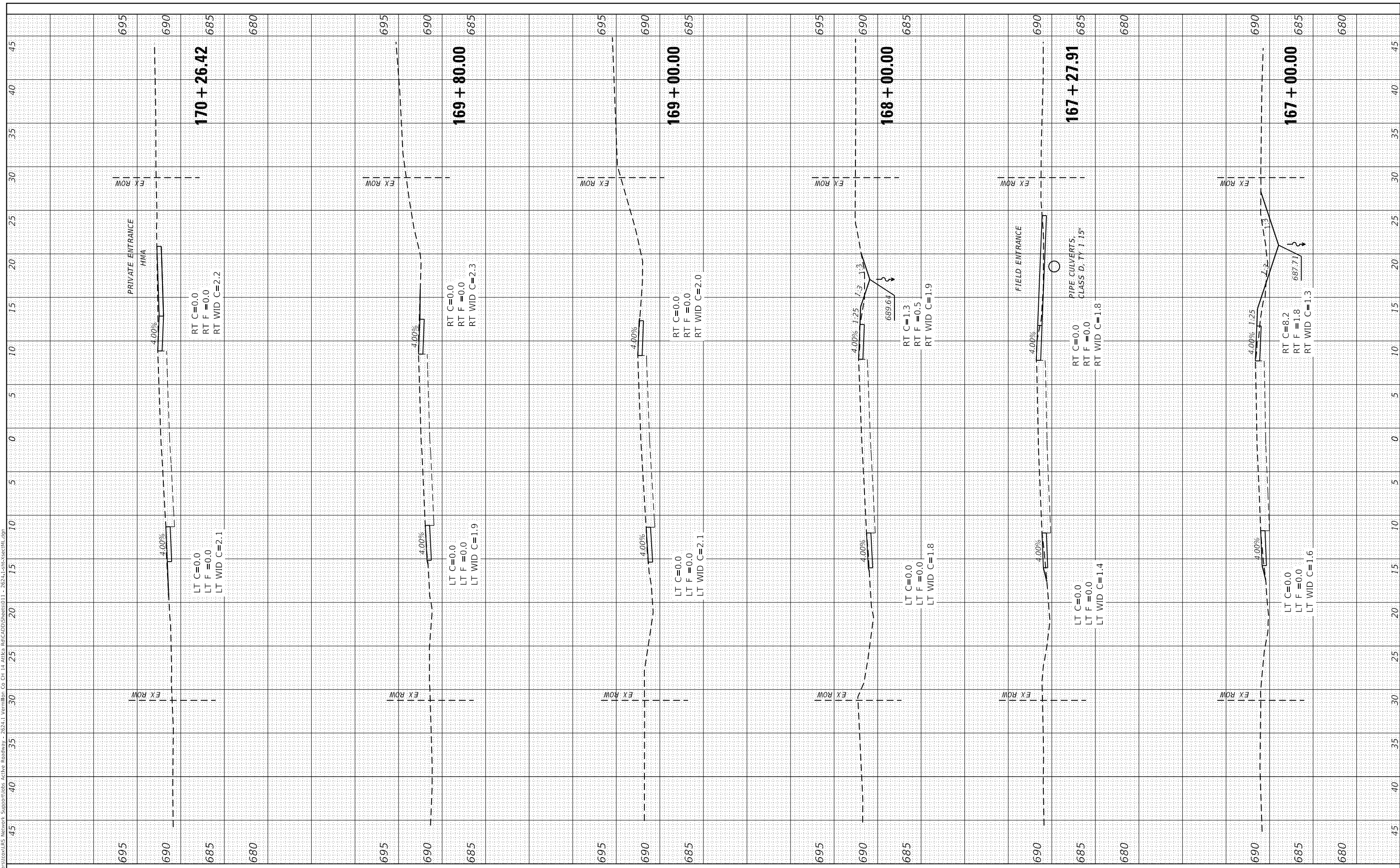
SCALE: 1"=5' SHEET OF SHEETS STA. 155+00.00 TO STA. 166+33.12

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	51
CONTRACT NO. 91610				
ILLINOIS		FED. AID PROJECT		

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

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

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**CEC** Cummins Engineering Corporation  
 Civil and Structural Engineering

JOB=2624.1  
 FILE NAME = 011 - 2624.1-sht-xsectML.dgn  
 PLOT SCALE = 10.0000' / in.  
 PLOT DATE = 10/7/2021

DESIGNED - TEC  
 DRAWN - TEC  
 CHECKED - CGF  
 DATE - 10-6-2021

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**EX CH 14 CROSS SECTIONS**

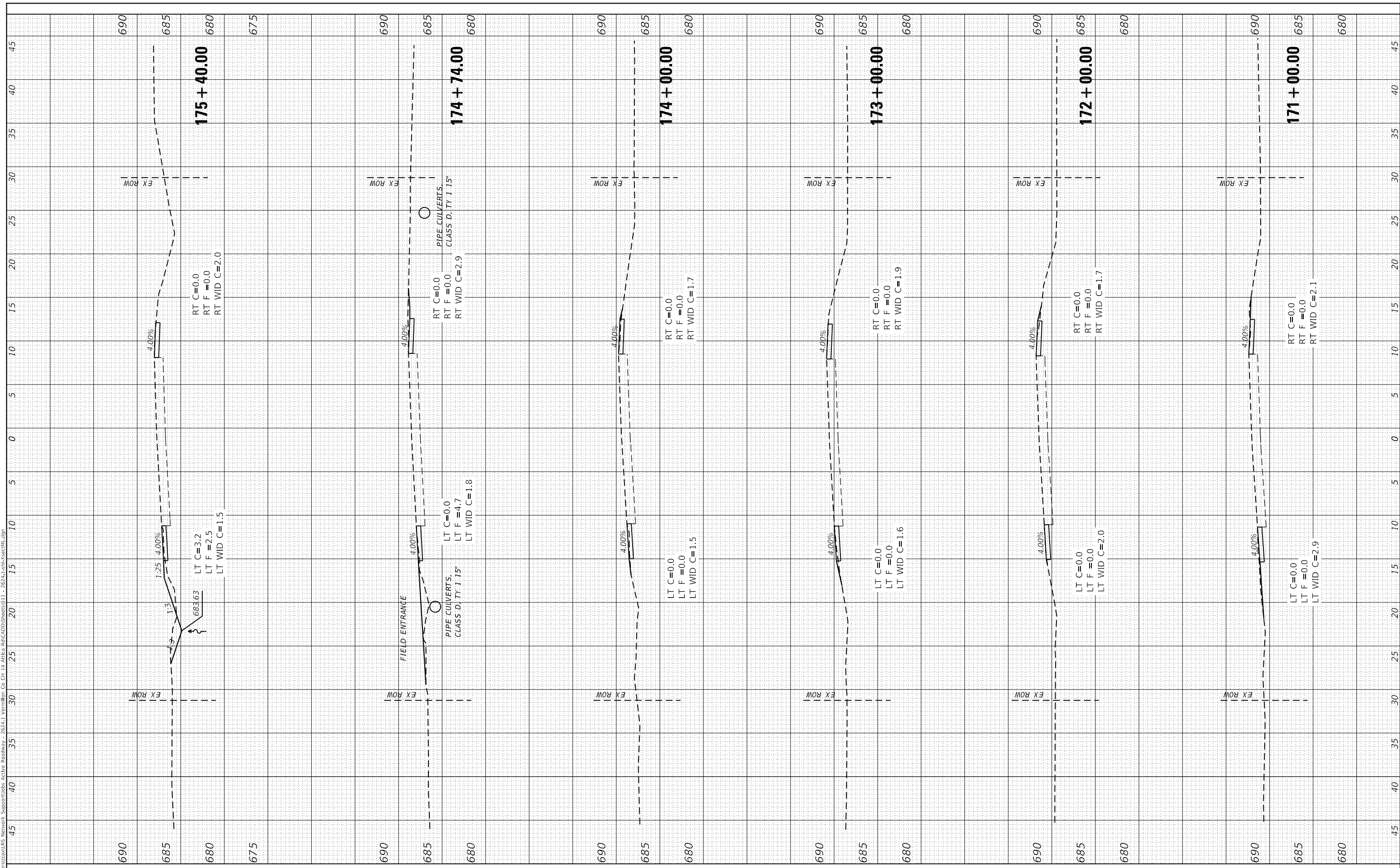
SCALE: 1"=5' SHEET OF SHEETS STA. 167+00.00 TO STA. 170+26.42

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	52
CONTRACT NO. 91610				
ILLINOIS FED. AID PROJECT				

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

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

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 PLOT SCALE = 10.0000' / in.  
 PLOT DATE = 10/7/2021

DESIGNED - TEC  
 DRAWN - TEC  
 CHECKED - CGF  
 DATE - 10-6-2021

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**EX CH 14 CROSS SECTIONS**

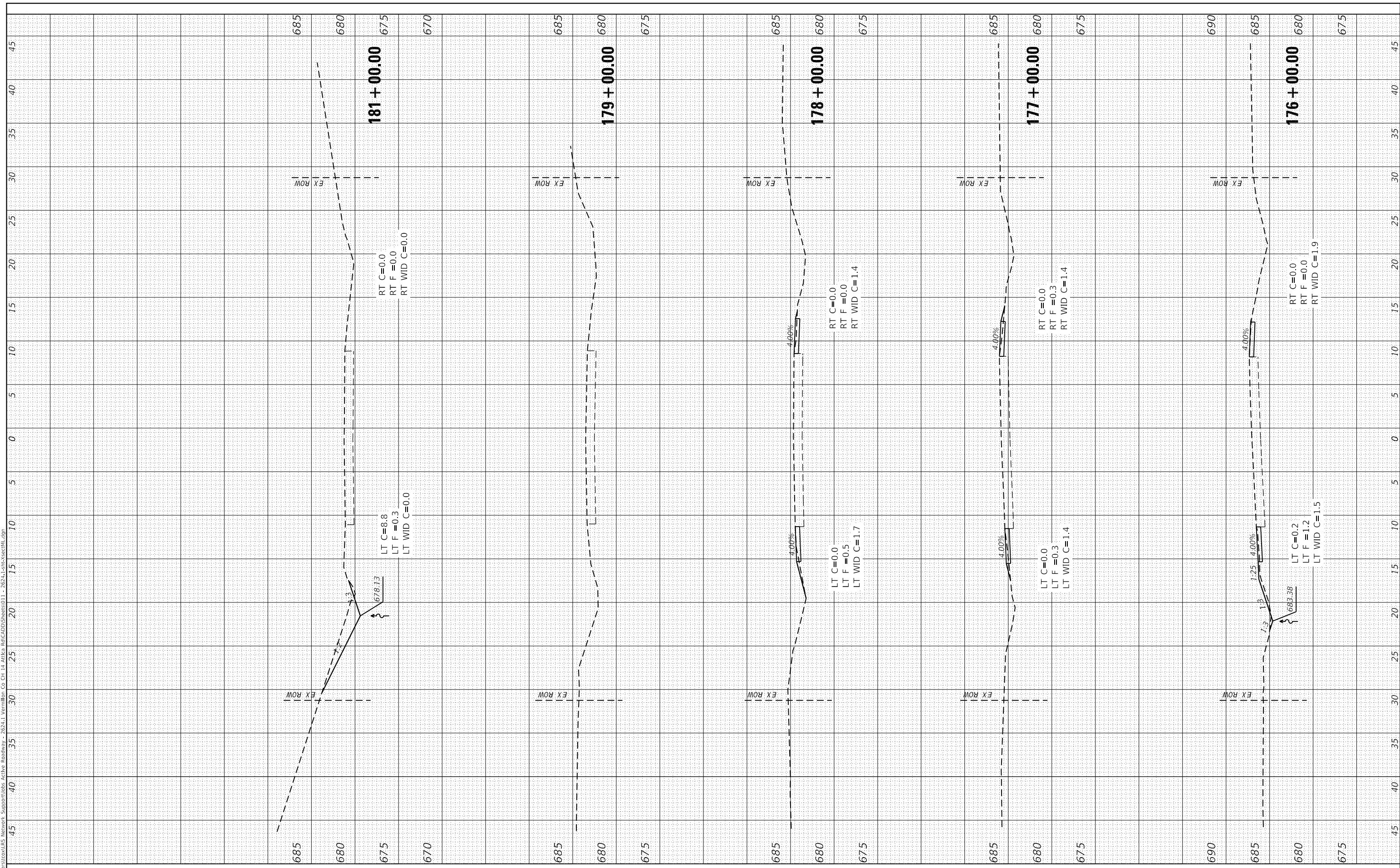
SCALE: 1"=5' SHEET OF SHEETS STA. 171+00.00 TO STA. 175+40.00

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	53
CONTRACT NO. 91610				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL: Default  
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PLOT DATE = 10/7/2021

DESIGNED -	TEC	REVISED -	
DRAWN -	TEC	REVISED -	
CHECKED -	CGF	REVISED -	
DATE -	10-6-2021	REVISED -	

**VERMILION COUNTY  
CH 14 IMPROVEMENT**

**EX CH 14 CROSS SECTIONS**

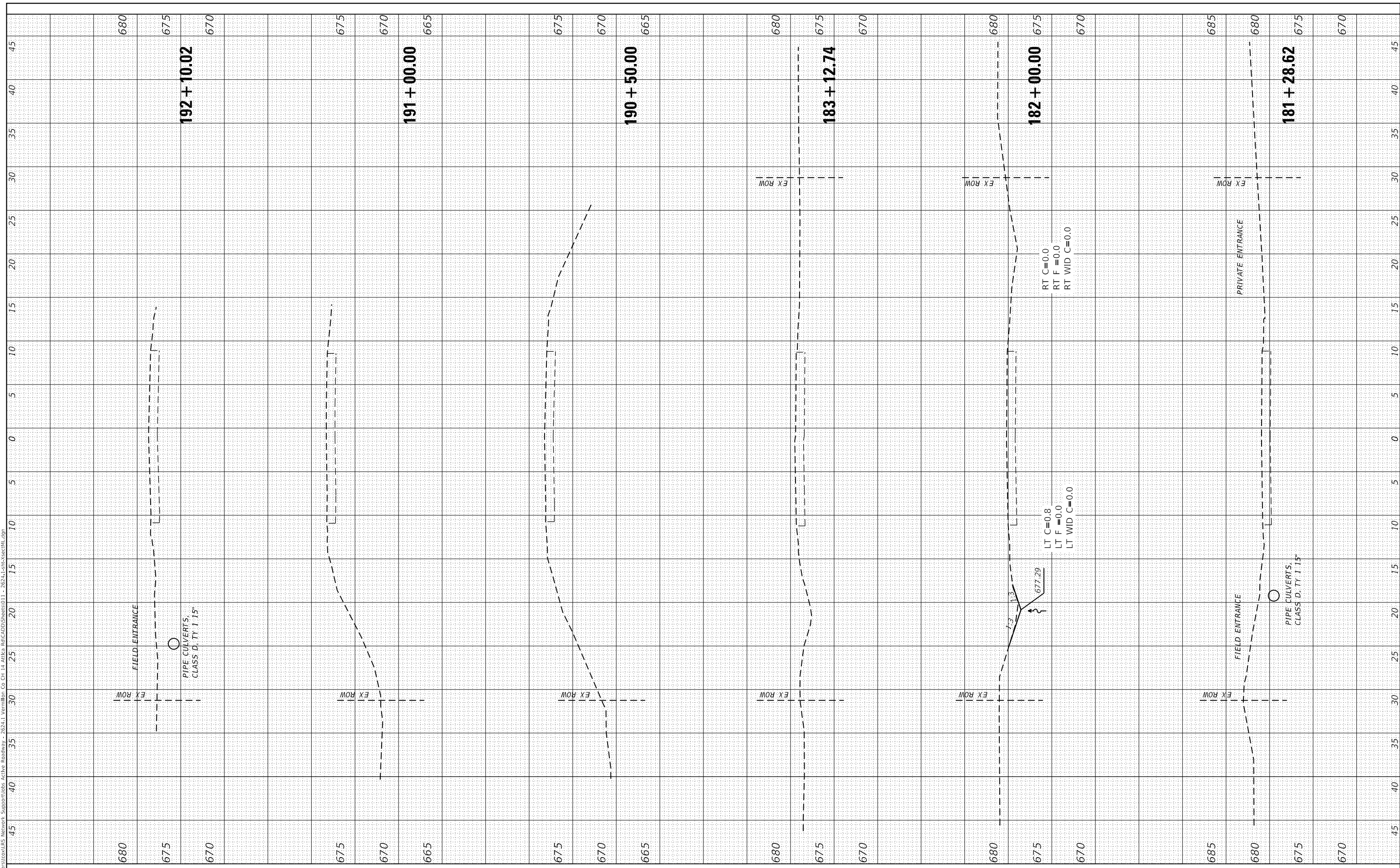
SCALE: 1"=5'      SHEET      OF      SHEETS      STA. 176+00.00      TO STA. 181+00.00

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	54
CONTRACT NO. 91610				ILLINOIS FED. AID PROJECT

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

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

JOB=2624.1  
 FILE NAME = 011 - 2624.1-sht-xsectML.dgn  
 PLOT SCALE = 10.0000 ' / in.  
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DESIGNED - TEC  
 DRAWN - TEC  
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REVISED -  
 REVISED -  
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 REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**EX CH 14 CROSS SECTIONS**

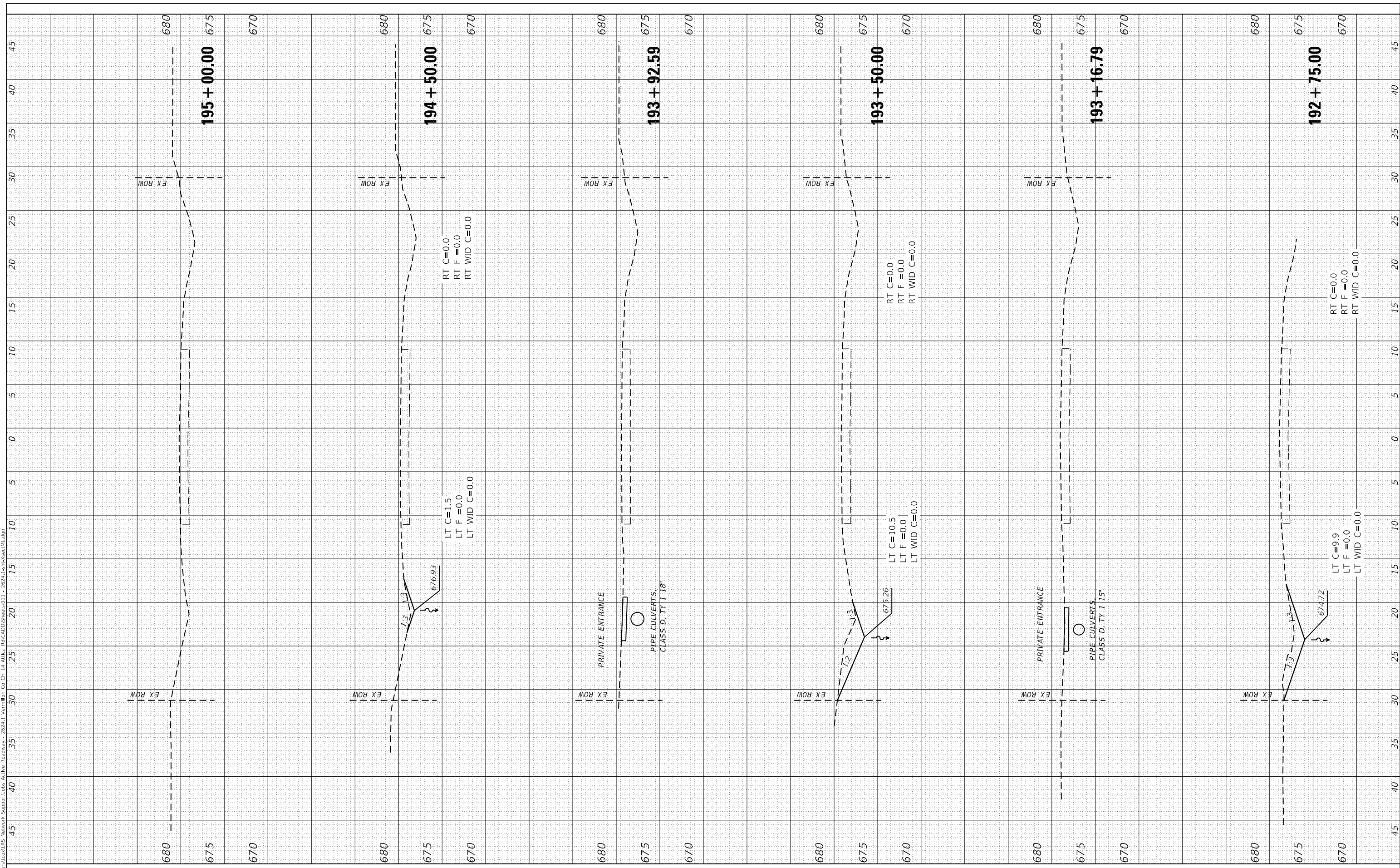
SCALE: 1"=5' SHEET OF SHEETS STA. 181+28.62 TO STA. 192+10.02

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	55
CONTRACT NO. 91610				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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 FILE NAME = 011 - 2624.1-sh-xsectML.dgn  
 PLOT SCALE = 10.0000 ' / in.  
 PLOT DATE = 10/7/2021

DESIGNED - TEC  
 DRAWN - TEC  
 CHECKED - CGF  
 DATE - 10-6-2021

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**EX CH 14 CROSS SECTIONS**

SCALE: 1"=5' SHEET OF SHEETS STA. 192+75.00 TO STA. 195+00.00

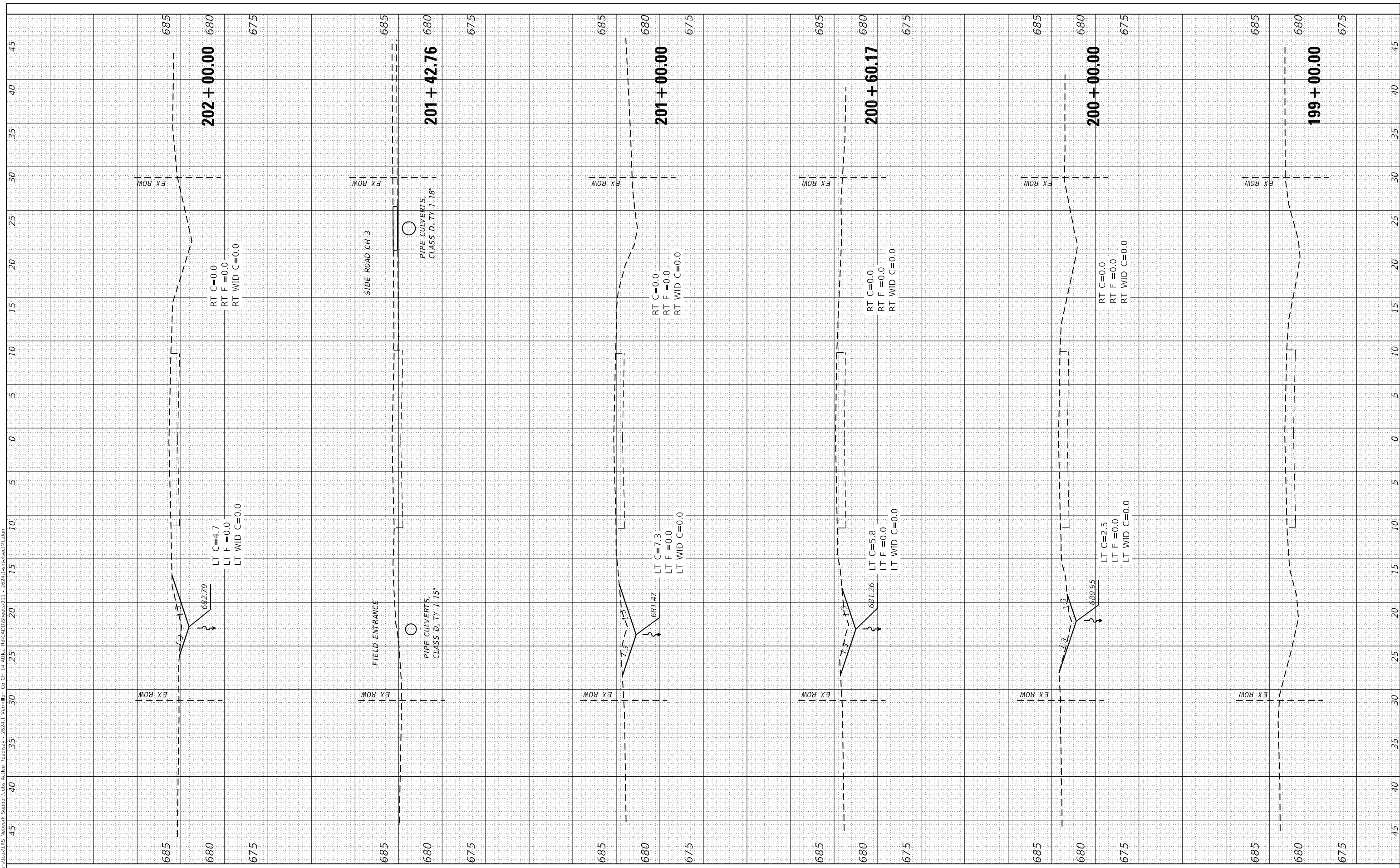
F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	56
CONTRACT NO. 91610				
ILLINOIS FED. AID PROJECT				



FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL: Defnair  
 FILE NAME: C:\Users\cexiles\Desktop\Support\Drawings\26241\19-0216-00-5P\CH 14 - 26241-19-0216-00-5P\CH 14.dwg  
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JOB=2624.1  
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 PLOT SCALE = 10,0000' / in.  
 PLOT DATE = 10/7/2021

DESIGNED - TEC  
 DRAWN - TEC  
 CHECKED - CGF  
 DATE - 10-6-2021

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**EX CH 14 CROSS SECTIONS**

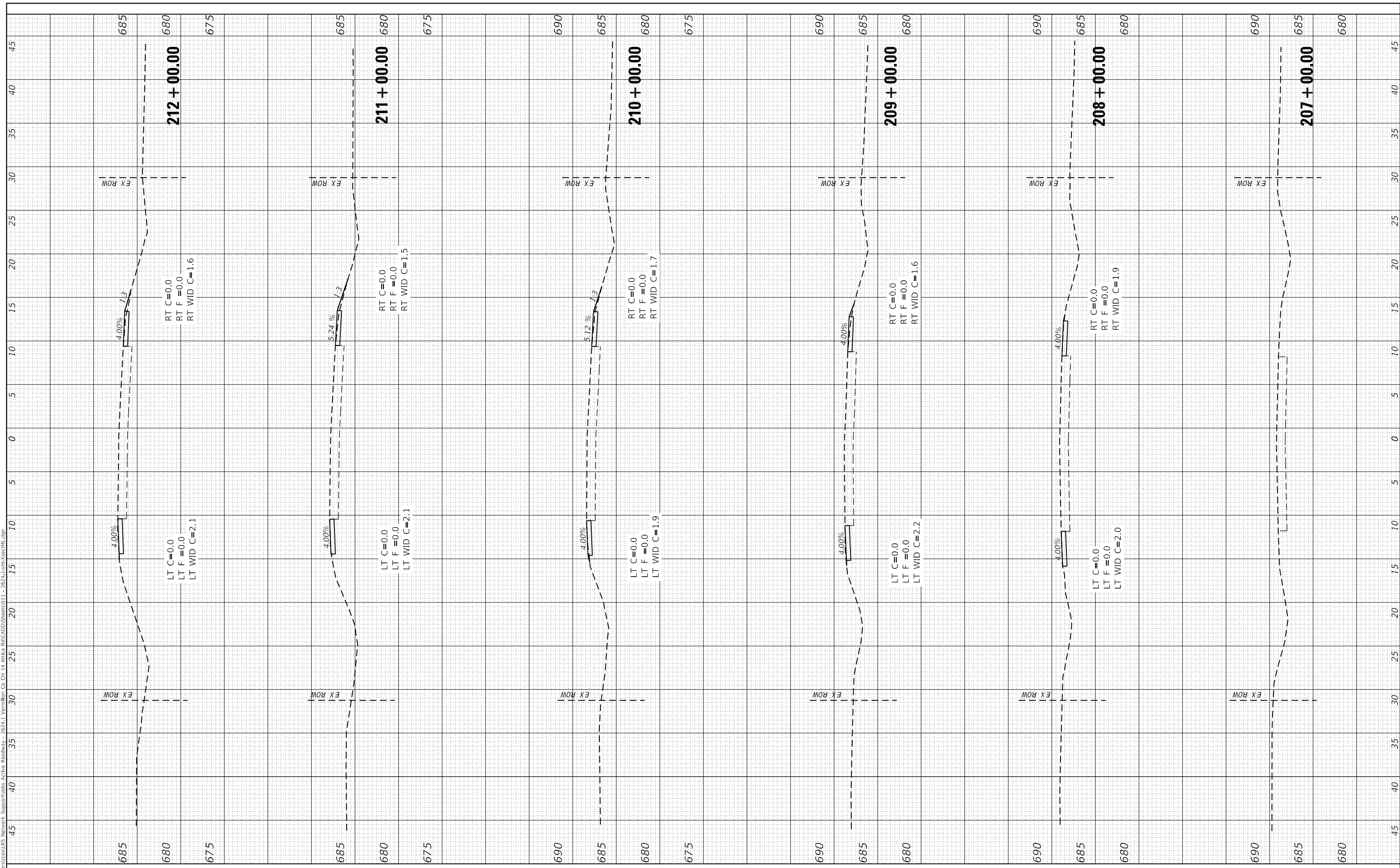
SCALE: 1"=5'      SHEET      OF      SHEETS      STA. 199+00.00      TO STA. 202+00.00

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	57
CONTRACT NO. 91610				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL: Default  
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JOB=2624.1  
 FILE NAME = 011 - 2624.1-sht-xsectML.dgn  
 PLOT SCALE = 10.0000 ' / in.  
 PLOT DATE = 10/7/2021

DESIGNED - TEC  
 DRAWN - TEC  
 CHECKED - CGF  
 DATE - 10-6-2021

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**EX CH 14 CROSS SECTIONS**

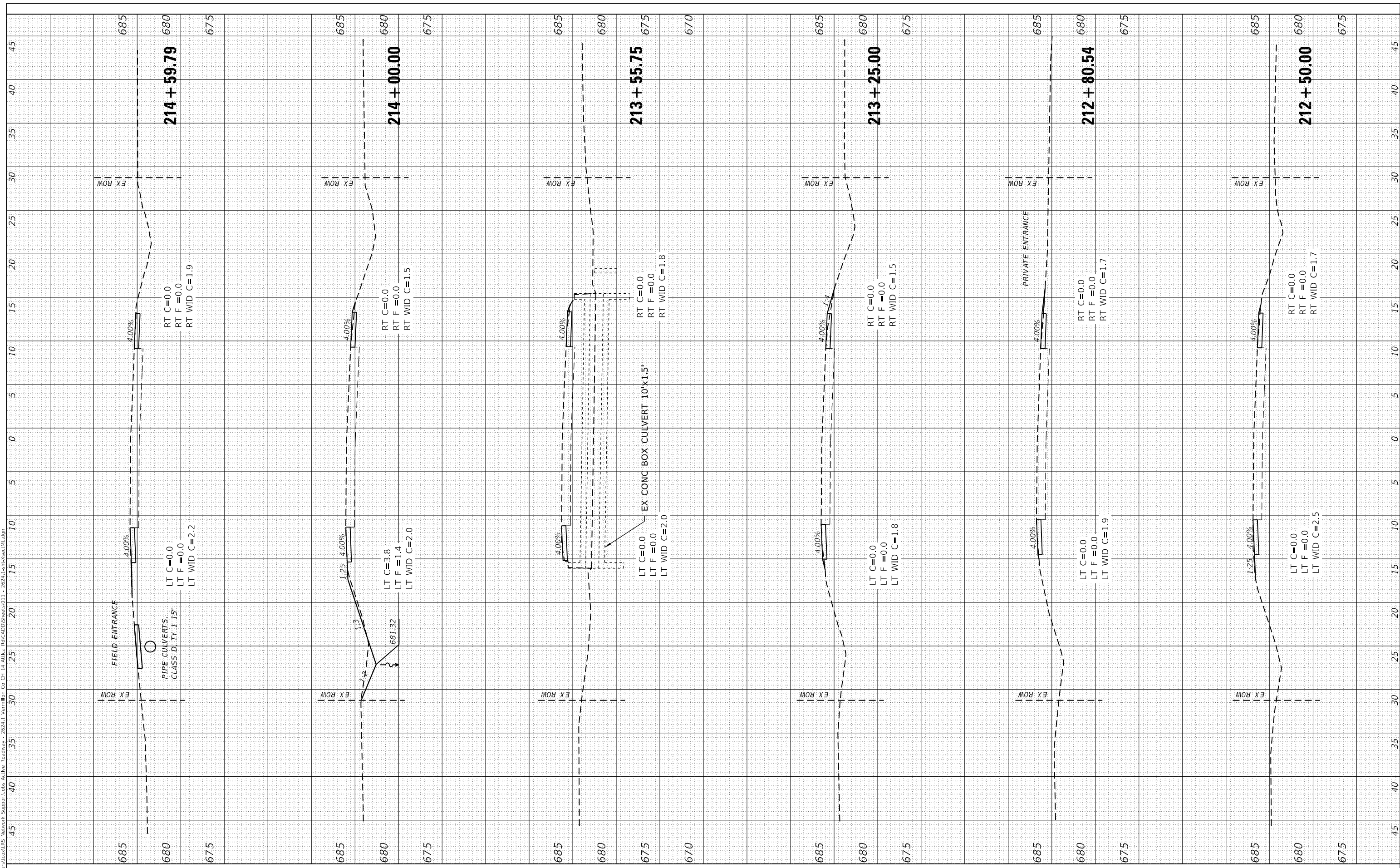
SCALE: 1"=5' SHEET OF SHEETS STA. 207+00.00 TO STA. 212+00.00

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	58
CONTRACT NO. 91610				
ILLINOIS		FED. AID PROJECT		

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

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

MODEL: Default  
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JOB=2624.1  
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 PLOT SCALE = 10.0000 ' / in.  
 PLOT DATE = 10/7/2021

DESIGNED - TEC  
 DRAWN - TEC  
 CHECKED - CGF  
 DATE - 10-6-2021

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**EX CH 14 CROSS SECTIONS**

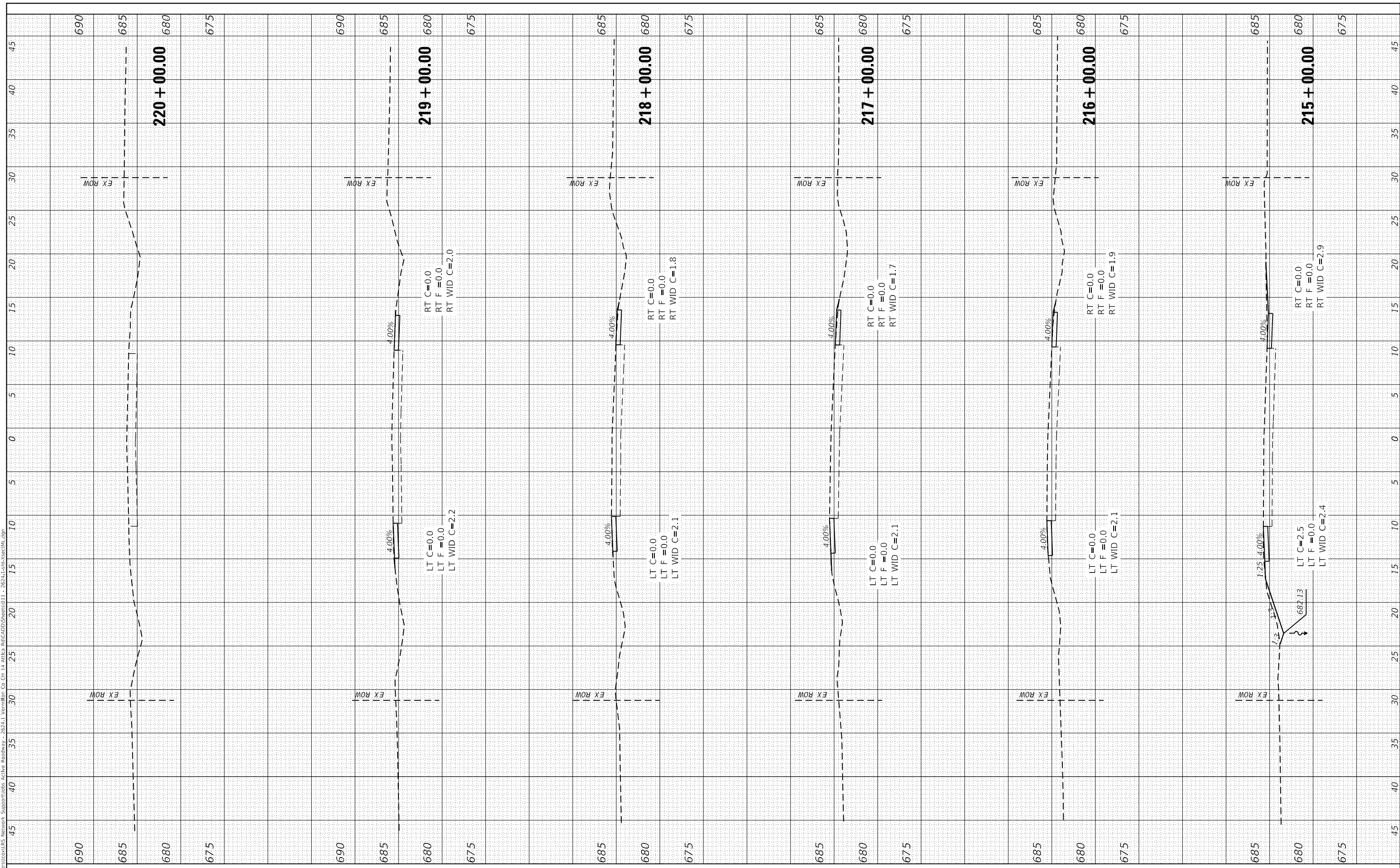
SCALE: 1"=5' SHEET OF SHEETS STA. 212+50.00 TO STA. 214+59.79

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	59
CONTRACT NO. 91610				
ILLINOIS		FED. AID PROJECT		

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

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

MODEL: Definit  
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JOB=2624.1  
 FILE NAME = 011 - 2624.1-sht-XsectML.dgn  
 PLOT SCALE = 10,0000 ' / in.  
 PLOT DATE = 10/7/2021

DESIGNED - TEC  
 DRAWN - TEC  
 CHECKED - CGF  
 DATE - 10-6-2021

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**EX CH 14 CROSS SECTIONS**

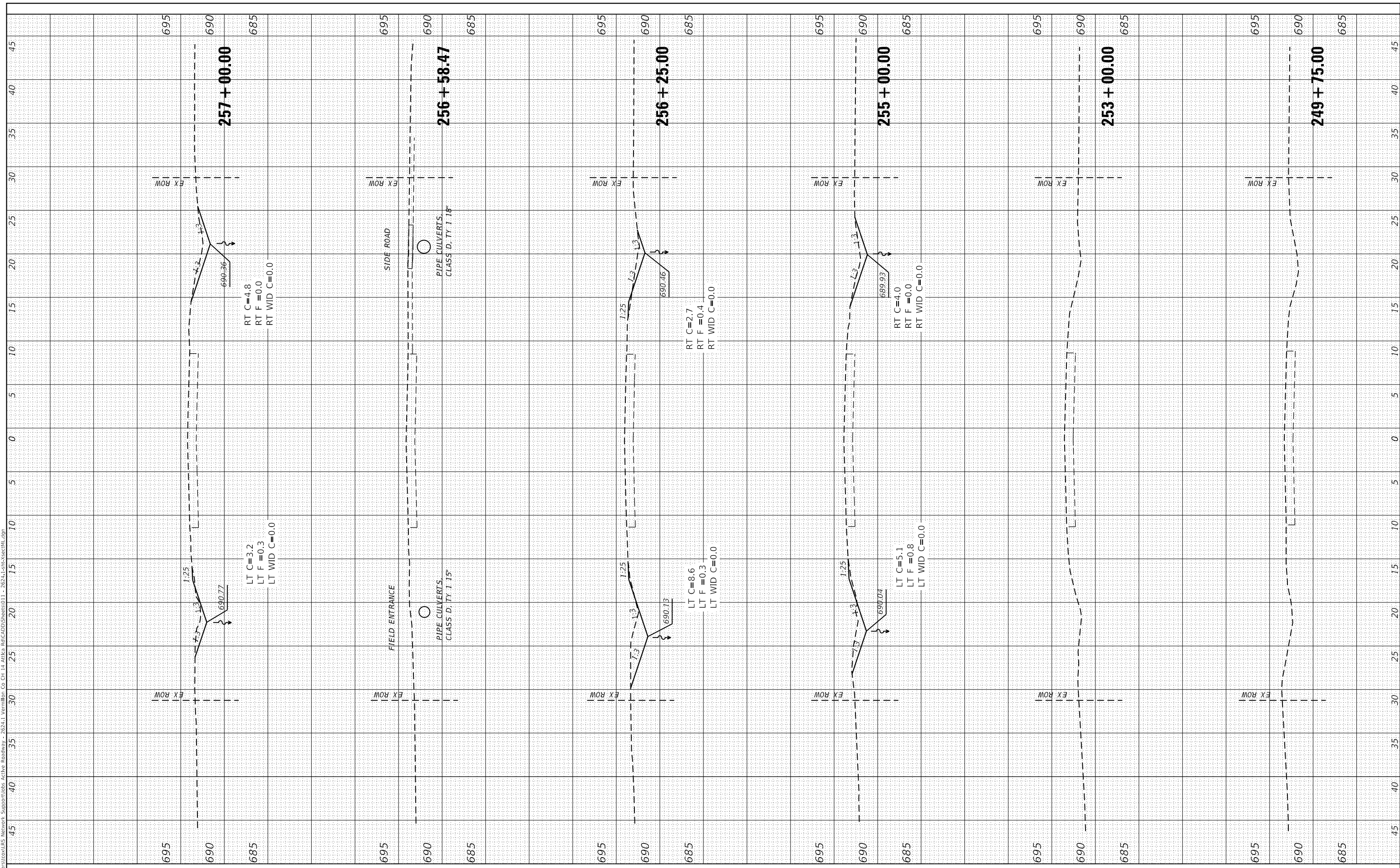
SCALE: 1"=5' SHEET OF SHEETS STA. 215+00.00 TO STA. 220+00.00

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-SP	VERMILION	80	60
CONTRACT NO. 91610				
ILLINOIS		FED. AID PROJECT		

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL: Defnair  
FILE NAME: C:\Users\cex185\Network\Support\Draws\Active Roadway - 2624\1 Vermilion Co Ch 14 Active Rd\CADD\Sheets\011 - 2624-1-1sht-xsectML.dgn



**CEC** Cummins Engineering Corporation  
Civil and Structural Engineering

JOB=2624.1  
FILE NAME = 011 - 2624.1-1sht-xsectML.dgn  
PLOT SCALE = 10.0000' / in.  
PLOT DATE = 10/7/2021

DESIGNED - TEC  
DRAWN - TEC  
CHECKED - CGF  
DATE - 10-6-2021

REVISED -  
REVISED -  
REVISED -  
REVISED -

**VERMILION COUNTY  
CH 14 IMPROVEMENT**

**EX CH 14 CROSS SECTIONS**

SCALE: 1"=5' SHEET OF SHEETS STA. 249+75.00 TO STA. 257+00.00

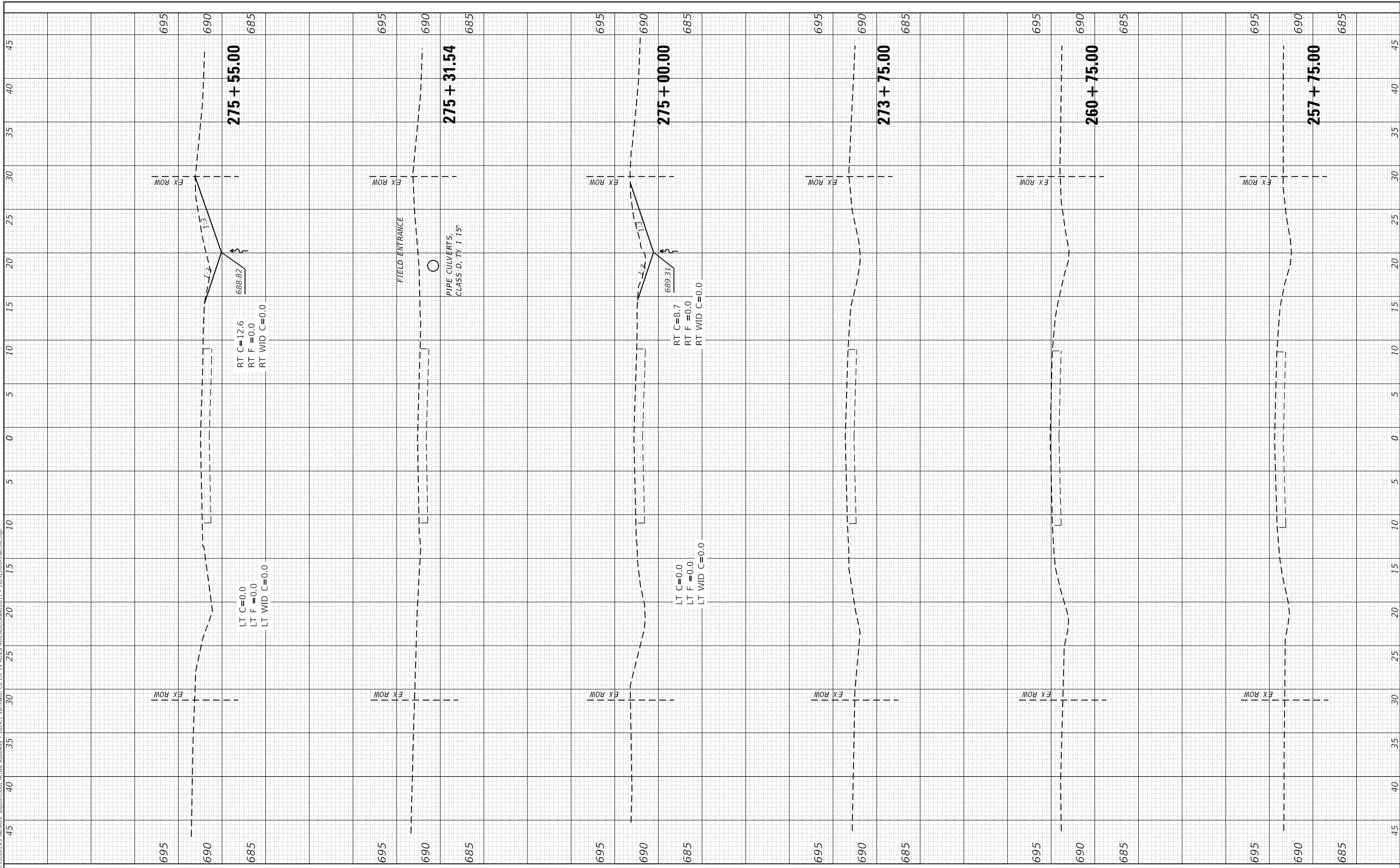
F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	61
CONTRACT NO. 91610				

ILLINOIS FED. AID PROJECT

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL: Default  
FILE NAME: C:\Users\cex185\Network\Support\Drawings\26241\Vermlion Co Ch 14 Active Rd\CADD\Sheets\011 - 26241-1-sht-xsectML.dgn



JOB=2624.1  
FILE NAME = 011 - 2624.1-sht-xsectML.dgn  
PLOT SCALE = 10.0000' / in.  
PLOT DATE = 10/7/2021

DESIGNED - TEC  
DRAWN - TEC  
CHECKED - CGF  
DATE - 10-6-2021

REVISED -  
REVISED -  
REVISED -  
REVISED -

**VERMILION COUNTY  
CH 14 IMPROVEMENT**

**EX CH 14 CROSS SECTIONS**

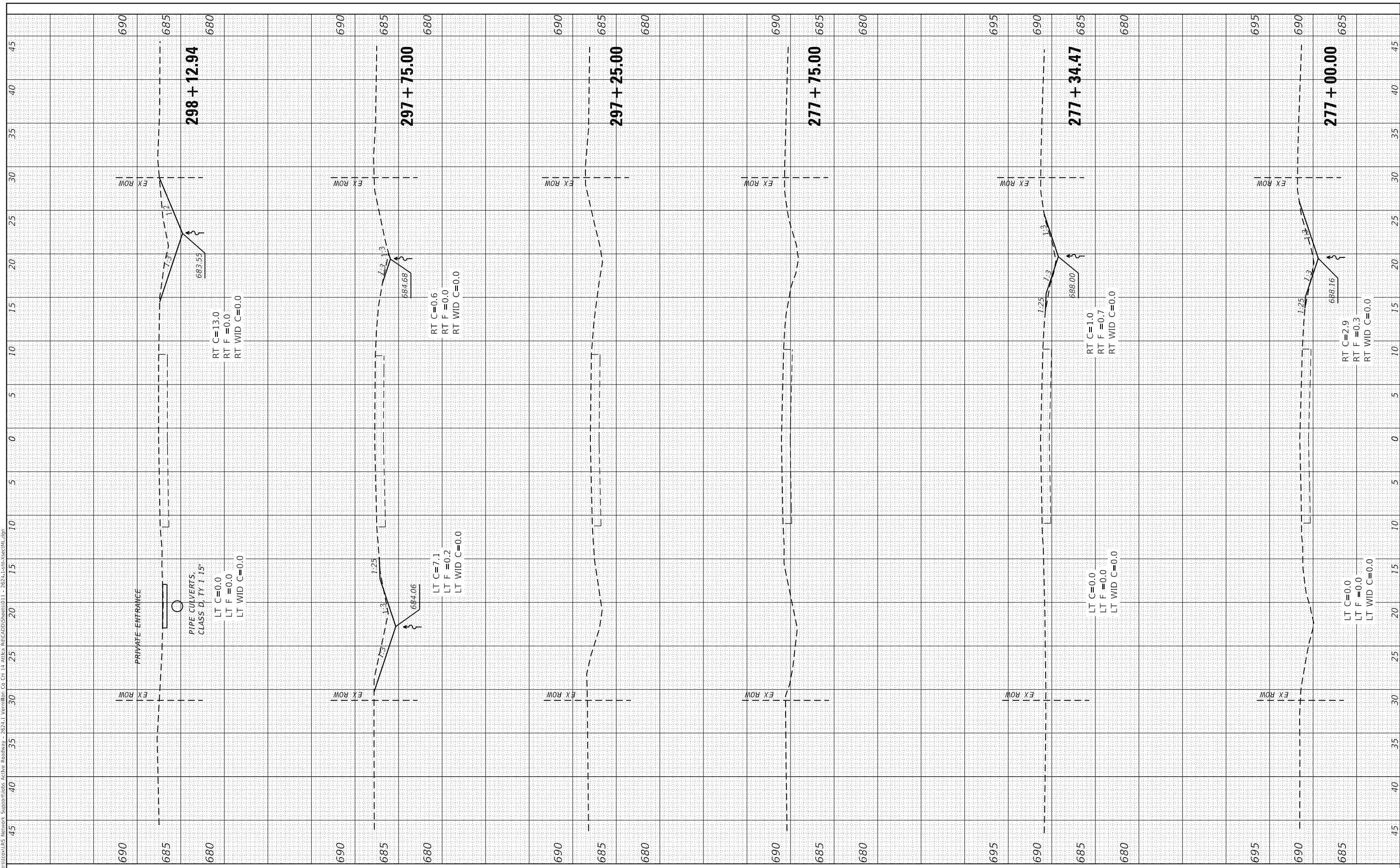
SCALE: 1"=5' SHEET OF SHEETS STA. 257+75.00 TO STA. 275+55.00

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	62
CONTRACT NO. 91610			ILLINOIS FED. AID PROJECT	

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL: Defnair  
 FILE NAME: C:\Users\cexiles.Network\Support\Draws\Support\Draws\26241\Vermlion\_Co\_Ch\_14\_Arbitr\_Rd\CADD\Sheet011 - 26241-1-sht-xsectML.dgn



**CEC** Cummins Engineering Corporation  
 Civil and Structural Engineering

JOB=2624.1  
 FILE NAME = 011 - 2624.1-sht-xsectML.dgn  
 PLOT SCALE = 10.0000' / in.  
 PLOT DATE = 10/7/2021

DESIGNED - TEC  
 DRAWN - TEC  
 CHECKED - CGF  
 DATE - 10-6-2021

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**EX CH 14 CROSS SECTIONS**

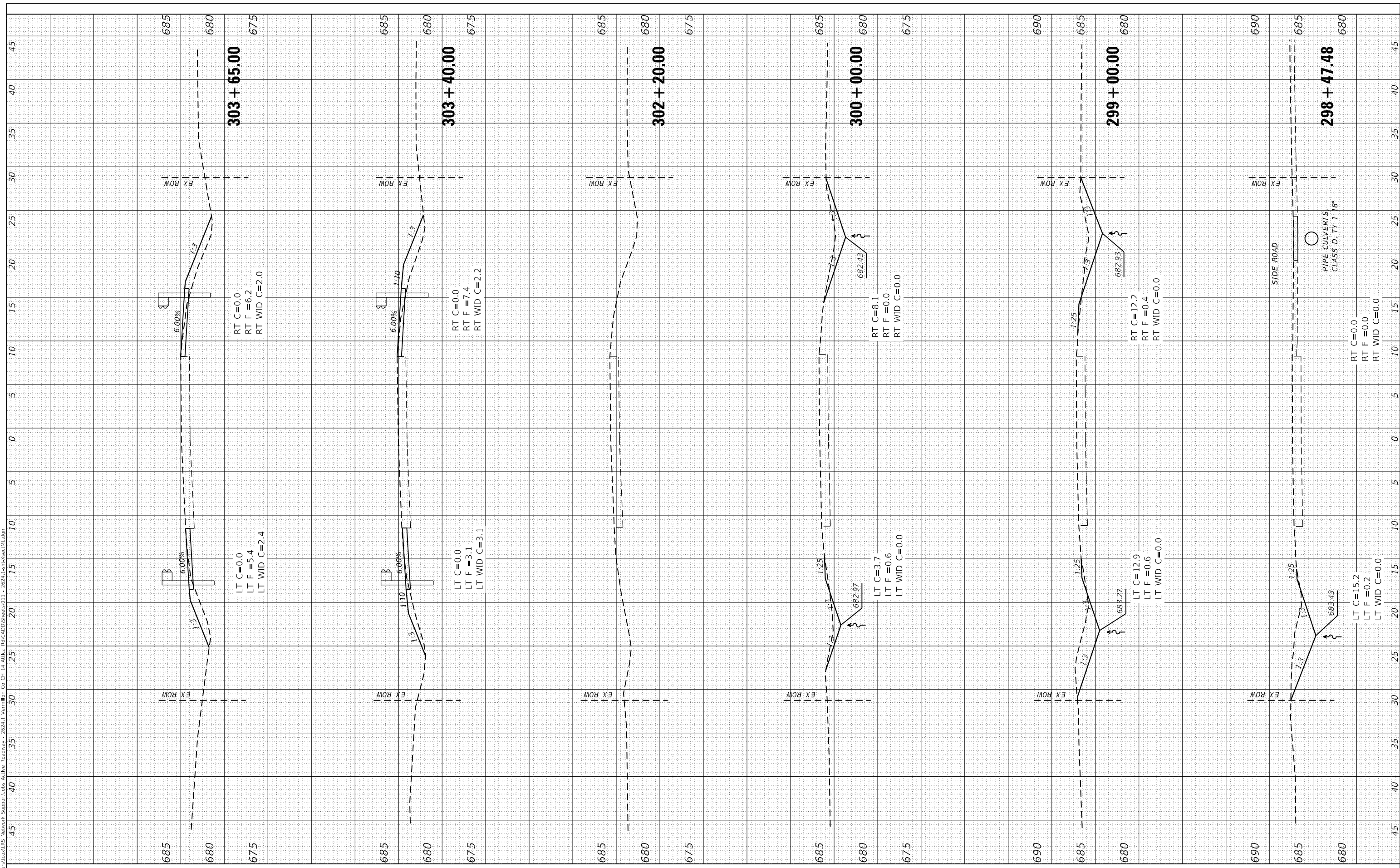
SCALE: 1"=5' SHEET OF SHEETS STA. 277+00.00 TO STA. 298+12.94

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	63
CONTRACT NO. 91610				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Definit  
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JOB=2624.1  
 FILE NAME = 011 - 2624.1-sht-xsectML.dgn  
 PLOT SCALE = 10.0000' / in.  
 PLOT DATE = 10/7/2021

DESIGNED - TEC  
 DRAWN - TEC  
 CHECKED - CGF  
 DATE - 10-6-2021

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**EX CH 14 CROSS SECTIONS**

SCALE: 1"=5' SHEET OF SHEETS STA. 298+47.48 TO STA. 303+65.00

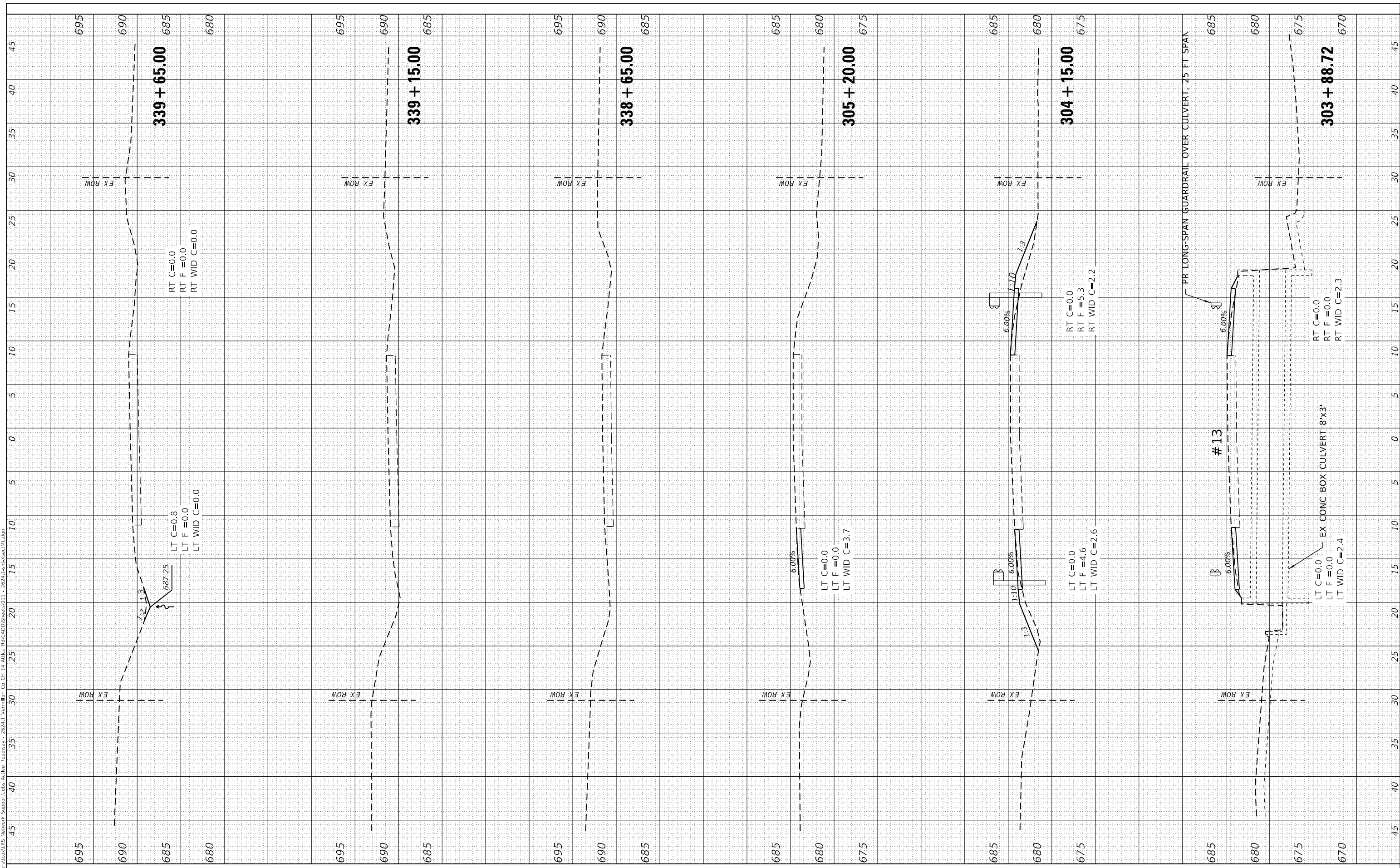
F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	64
CONTRACT NO. 91610				
ILLINOIS FED. AID PROJECT				



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

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

MODEL: Defnair  
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 Co: CH 14, Area: RdCAD\Draws\26241 - 26241-19-00216-00-SP.dgn



JOB=2624.1  
 FILE NAME = 011 - 2624.1-1-sht-XsectML.dgn  
 PLOT SCALE = 10.0000 ' / in.  
 PLOT DATE = 10/7/2021

DESIGNED - TEC  
 DRAWN - TEC  
 CHECKED - CGF  
 DATE - 10-6-2021

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**EX CH 14 CROSS SECTIONS**

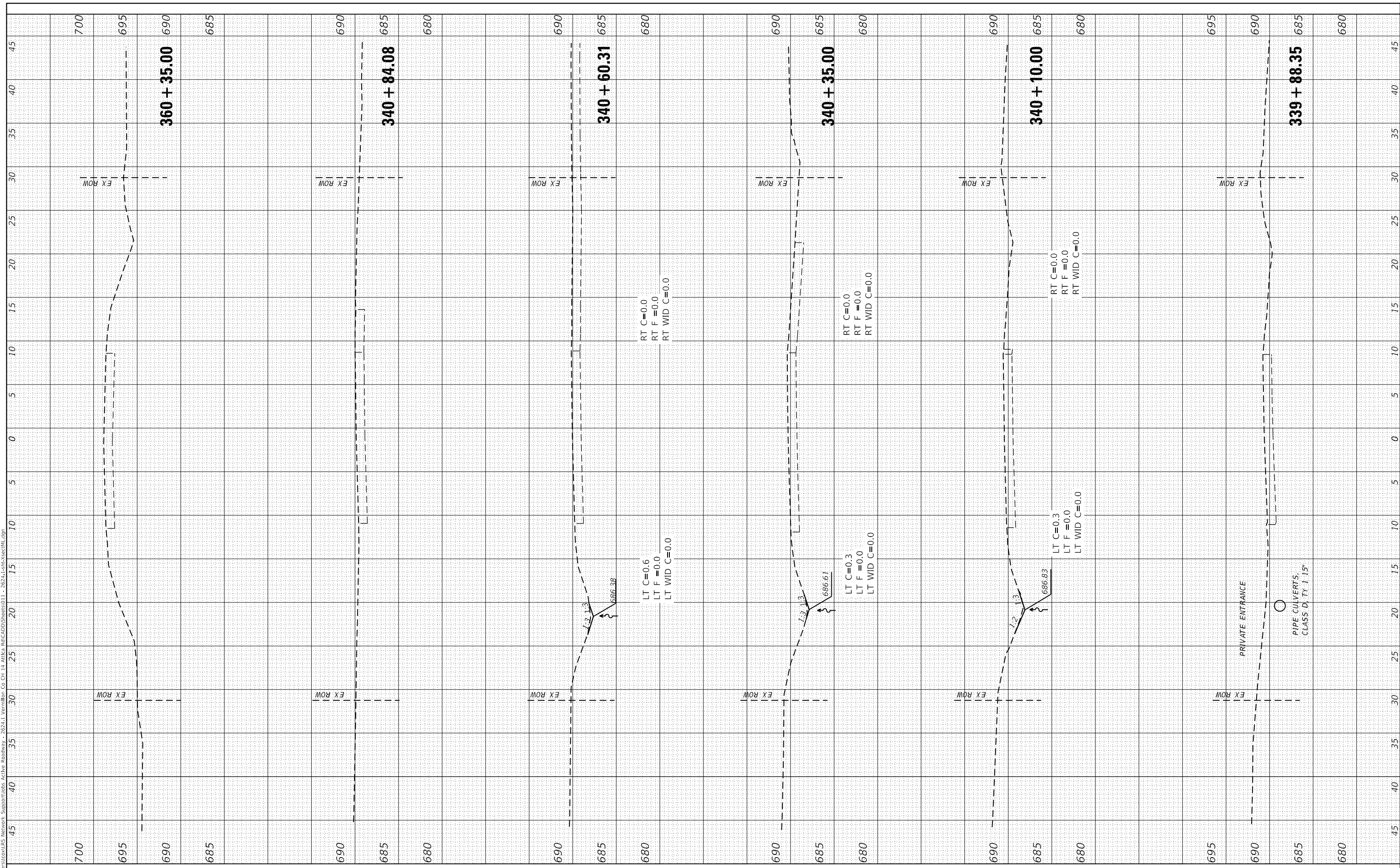
SCALE: 1"=5' SHEET OF SHEETS STA. 303+88.72 TO STA. 339+65.00

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-SP	VERMILION	80	65
CONTRACT NO. 91610				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL: Defaulr  
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JOB=2624.1  
FILE NAME = 011 - 2624.1-sht-xsectML.dgn  
PLOT SCALE = 10,0000 ' / in.  
PLOT DATE = 10/7/2021

DESIGNED - TEC  
DRAWN - TEC  
CHECKED - CGF  
DATE - 10-6-2021

REVISED -  
REVISED -  
REVISED -  
REVISED -

**VERMILION COUNTY  
CH 14 IMPROVEMENT**

**EX CH 14 CROSS SECTIONS**

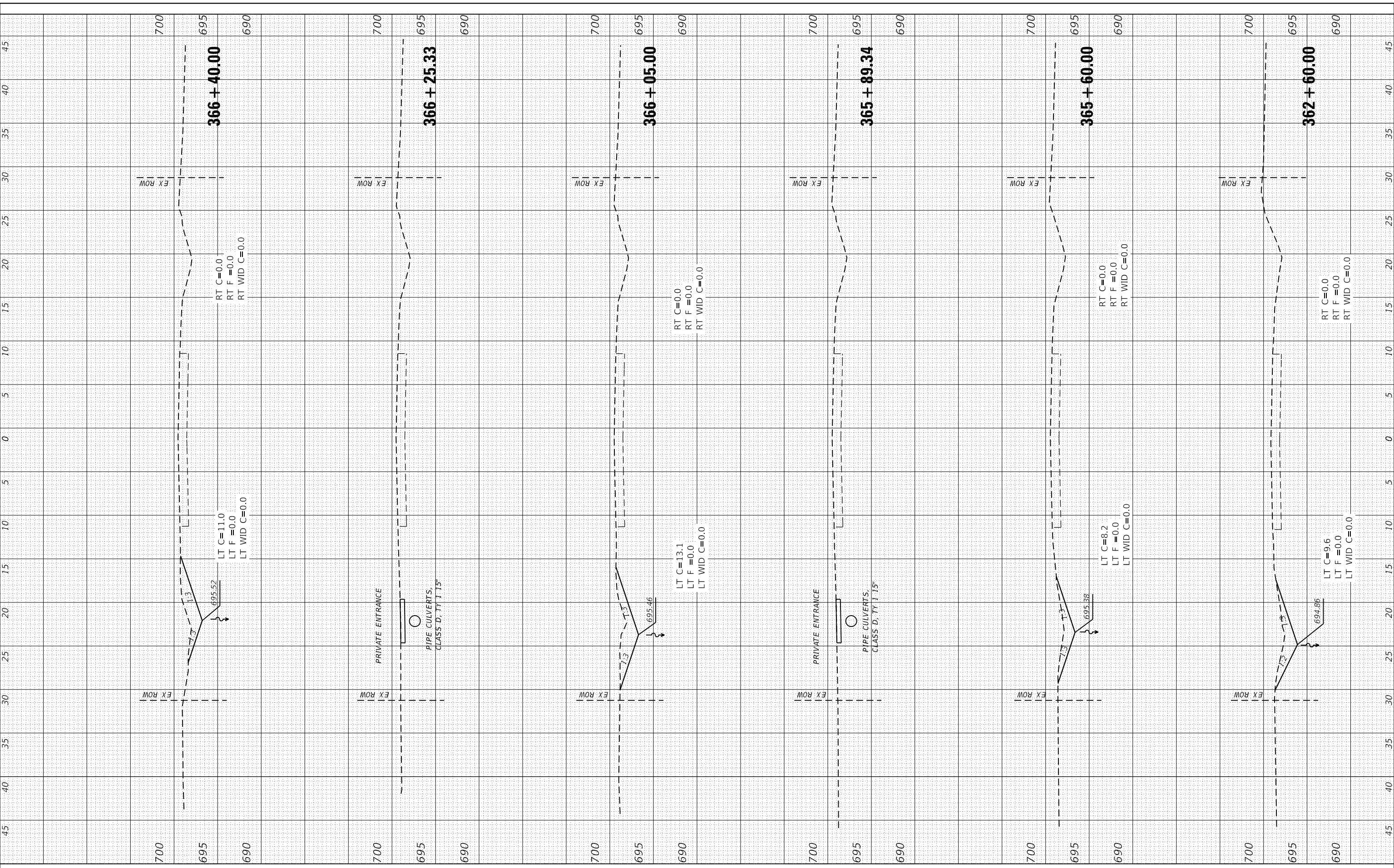
SCALE: 1"=5' SHEET OF SHEETS STA. 339+88.35 TO STA. 360+35.00

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	66
CONTRACT NO. 91610				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL: Defnair  
 FILE NAME: C:\Users\cgf\OneDrive\Network\Support\Draws - 2624\1\19-00216-00-5P.dgn



**CEC** Cummins Engineering Corporation  
 Civil and Structural Engineering

JOB=2624.1
FILE NAME = 011 - 2624.1-sht-XsectML.dgn
PLOT SCALE = 10.0000' / in.
PLOT DATE = 10/7/2021

DESIGNED - TEC
DRAWN - TEC
CHECKED - CGF
DATE - 10-6-2021

REVISED -
REVISED -
REVISED -
REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**EX CH 14 CROSS SECTIONS**

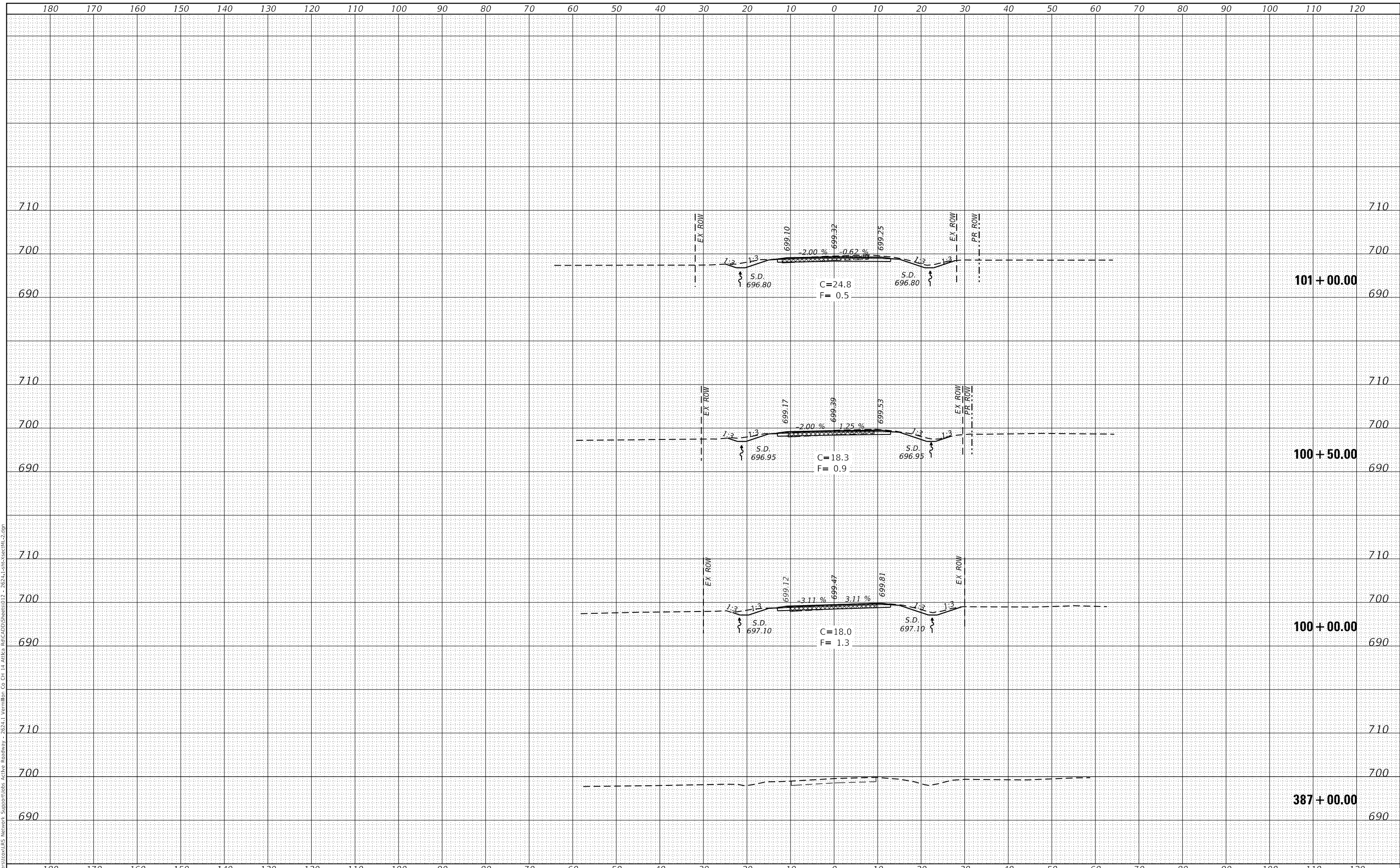
SCALE: 1"=5' SHEET OF SHEETS STA. 362+60.00 TO STA. 366+40.00

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	67
CONTRACT NO. 91610				
ILLINOIS FED. AID PROJECT				

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

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

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

JOB=2624.1  
 FILE NAME = 012 - 2624.1-shc-xsectml-2.dgn  
 PLOT SCALE = 20.0000 ' / in.  
 PLOT DATE = 10/7/2021

DESIGNED - TEC  
 DRAWN - TEC  
 CHECKED - CGF  
 DATE - 10-6-2021

REVISED -  
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 REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**PR CH 14 CROSS SECTIONS**

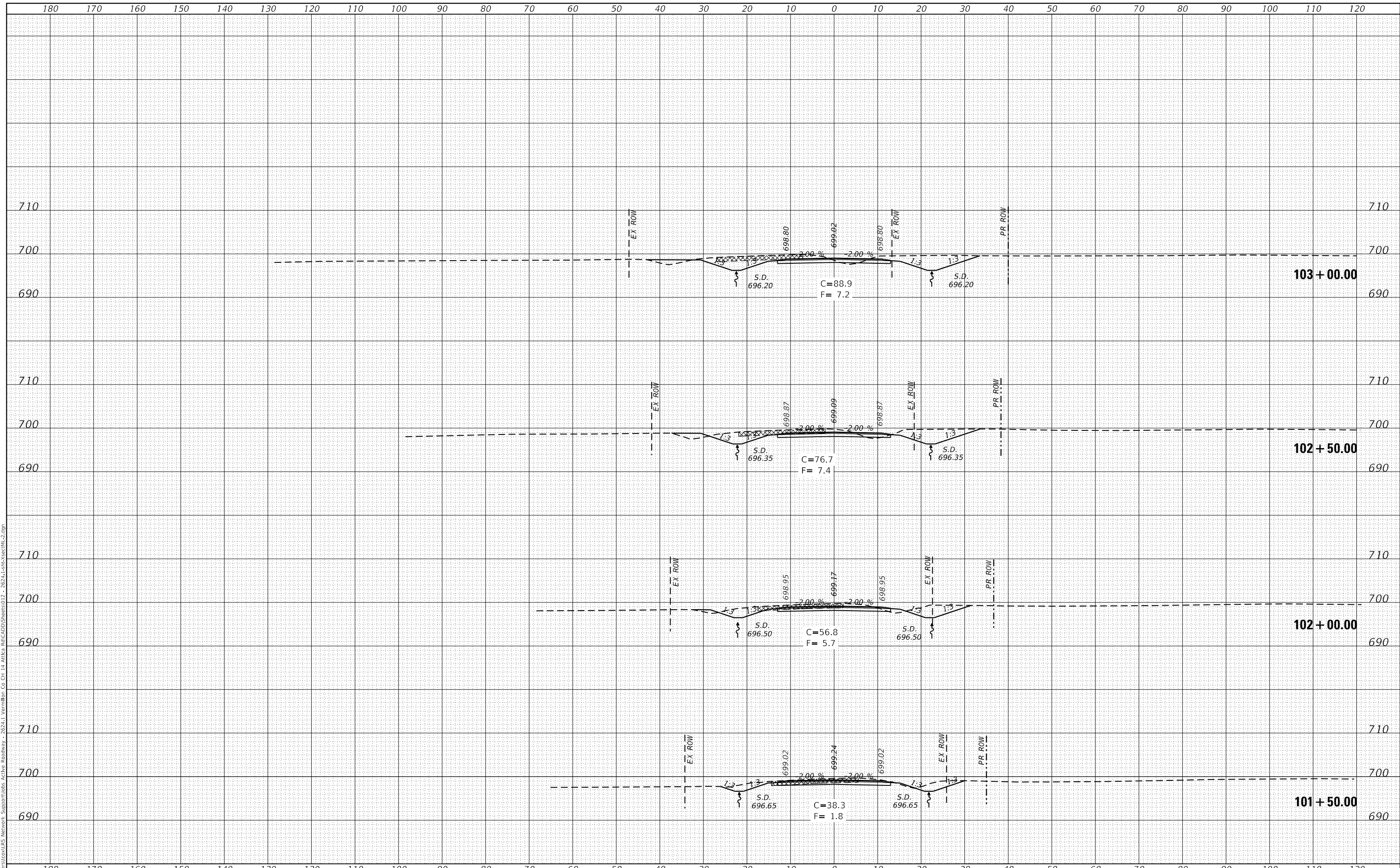
SCALE: 1"=10'  
 SHEET OF SHEETS  
 STA. 387+00.00 TO STA. 101+00.00

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	78
CONTRACT NO. 91610			ILLINOIS FED. AID PROJECT	

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

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

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

JOB=2624.1  
 FILE NAME = 012 - 2624.1-1-sht-XsectML-2.dgn  
 PLOT SCALE = 20,0000 ' / in.  
 PLOT DATE = 10/7/2021

DESIGNED -	TEC	REVISED -	
DRAWN -	TEC	REVISED -	
CHECKED -	CGF	REVISED -	
DATE -	10-6-2021	REVISED -	

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**PR CH 14 CROSS SECTIONS**

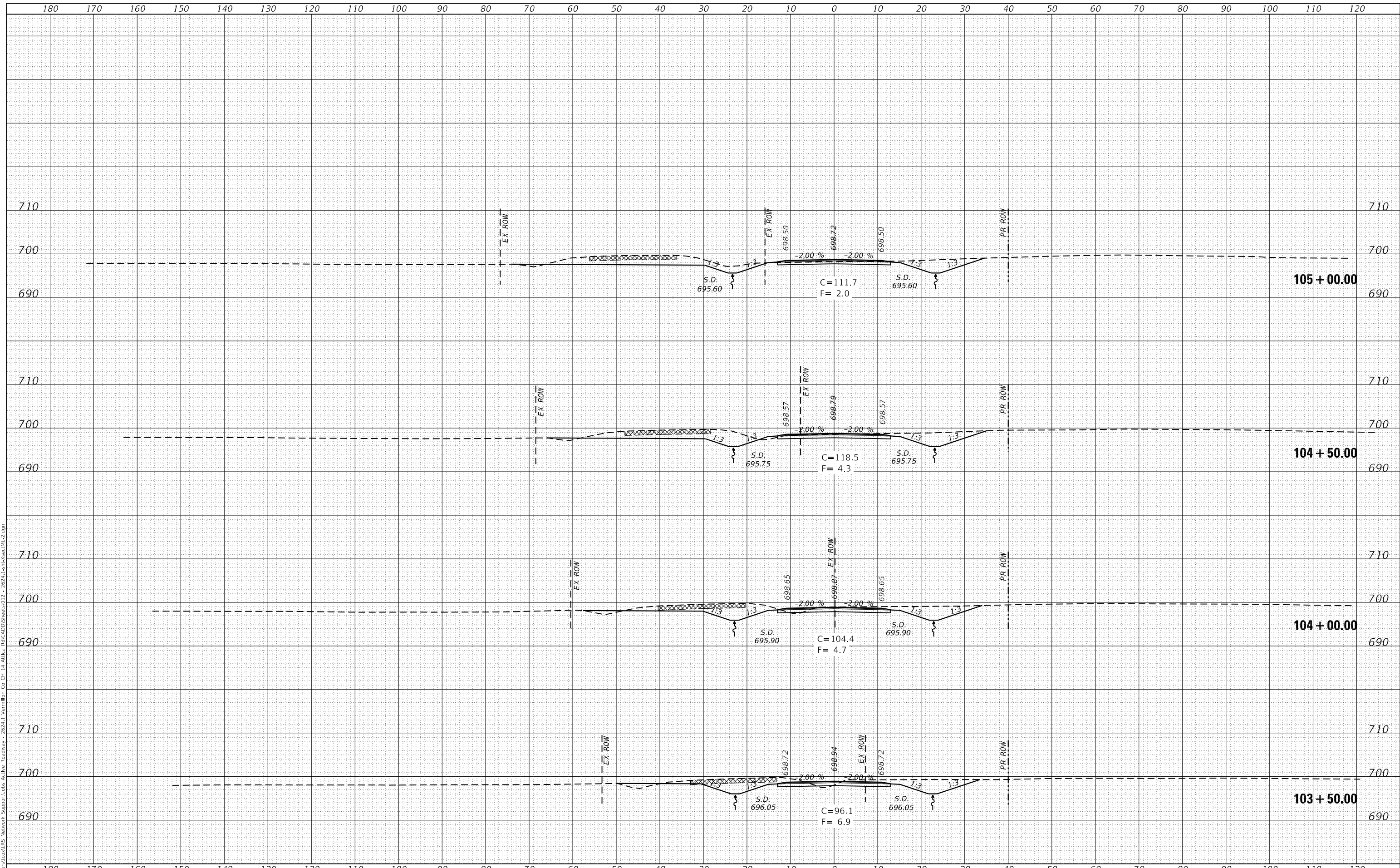
SCALE: 1"=10'  
 SHEET OF SHEETS STA. 101+50.00 TO STA. 103+00.00

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-SP	VERMILION	80	77
CONTRACT NO. 91610				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default  
 FILE NAME: C:\Users\cex\OneDrive\Network\Support\Drawings\26241\_Vermilion\_Co\_Ch\_14\_Arbitr\_Rd\CADD\Sheets\012 - 26241-1-sht-xsectML-2.dgn



**CEC** Cummins  
 Engineering  
 Corporation  
 Civil and Structural Engineering

JOB=2624.1  
 FILE NAME = 012 - 2624.1-sht-xsectML-2.dgn  
 PLOT SCALE = 20.0000' / in.  
 PLOT DATE = 10/7/2021

DESIGNED - TEC  
 DRAWN - TEC  
 CHECKED - CGF  
 DATE - 10-6-2021

REVISED -  
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 REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**PR CH 14 CROSS SECTIONS**

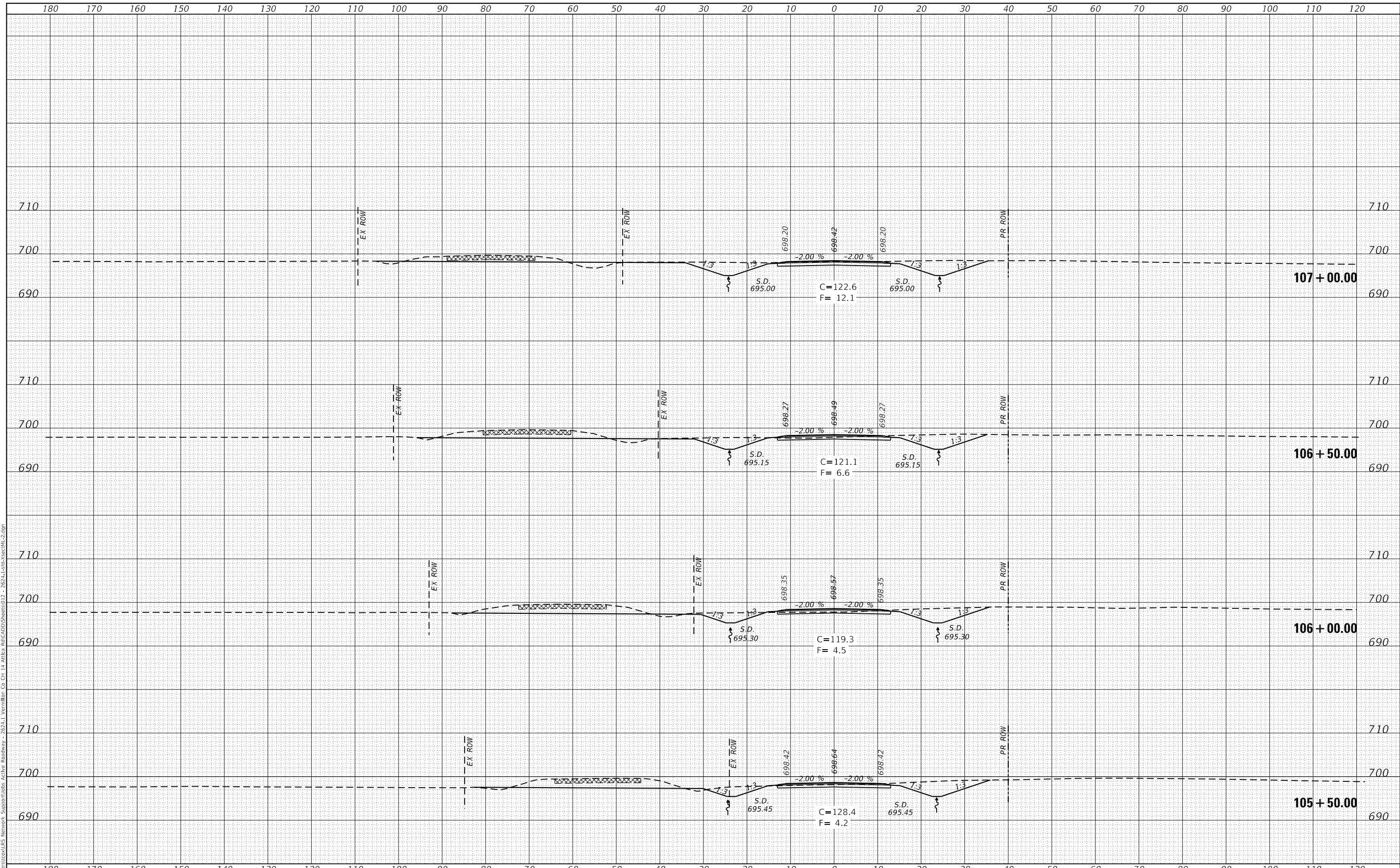
SCALE: 1"=10'  
 SHEET OF SHEETS  
 STA. 103+50.00 TO STA. 105+00.00

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	76
CONTRACT NO. 91610			ILLINOIS FED. AID PROJECT	

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

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

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

JOB=2624.1  
 FILE NAME = 012 - 2624.1-1-sht-XsectML-2.dgn  
 PLOT SCALE = 20.0000' / in.  
 PLOT DATE = 10/7/2021

DESIGNED - TEC  
 DRAWN - TEC  
 CHECKED - CGF  
 DATE - 10-6-2021

REVISED -  
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 REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**PR CH 14 CROSS SECTIONS**

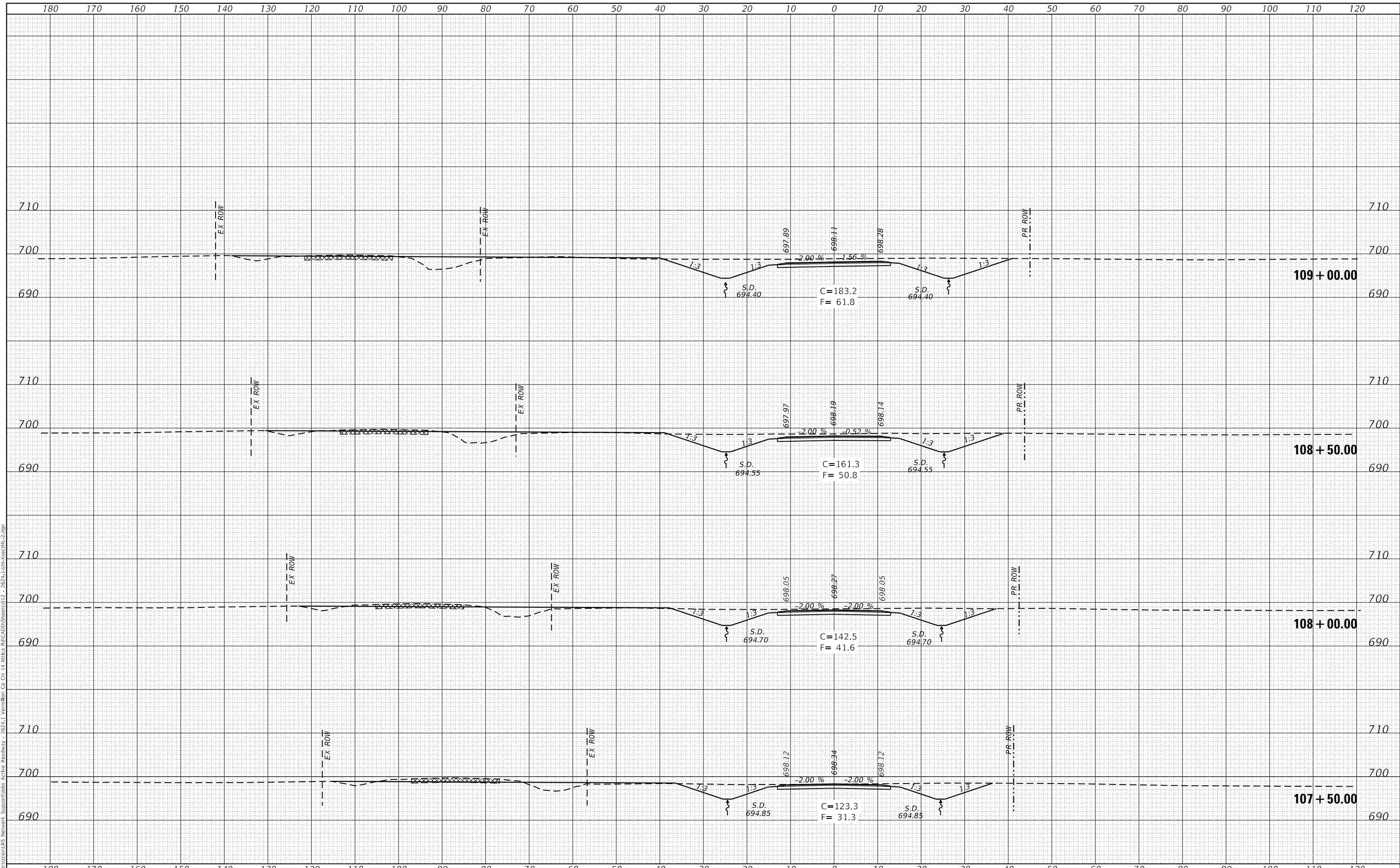
SCALE: 1"=10' SHEET OF SHEETS STA. 105+50.00 TO STA. 107+00.00

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-SP	VERMILION	80	75
CONTRACT NO. 91610			ILLINOIS FED. AID PROJECT	

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

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

MODEL: Default  
 FILE NAME: C:\Users\csl\OneDrive\Network\Support\Drawings\26241\19-00216-00-SP\CH 14\Aria\Ref\CAD\Drawings\012 - 26241-19-00216-00-SP-CH 14.dwg



**CEC** Cummins Engineering Corporation  
 Civil and Structural Engineering

JOB=2624.1  
 FILE NAME = 012 - 2624.1-19-00216-00-SP-CH 14.dwg  
 PLOT SCALE = 20,0000' / in.  
 PLOT DATE = 10/7/2021

DESIGNED - TEC  
 DRAWN - TEC  
 CHECKED - CGF  
 DATE - 10-6-2021

REVISED -  
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 REVISED -  
 REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**PR CH 14 CROSS SECTIONS**

SCALE: 1"=10'  
 SHEET OF SHEETS  
 STA. 107+50.00 TO STA. 109+00.00

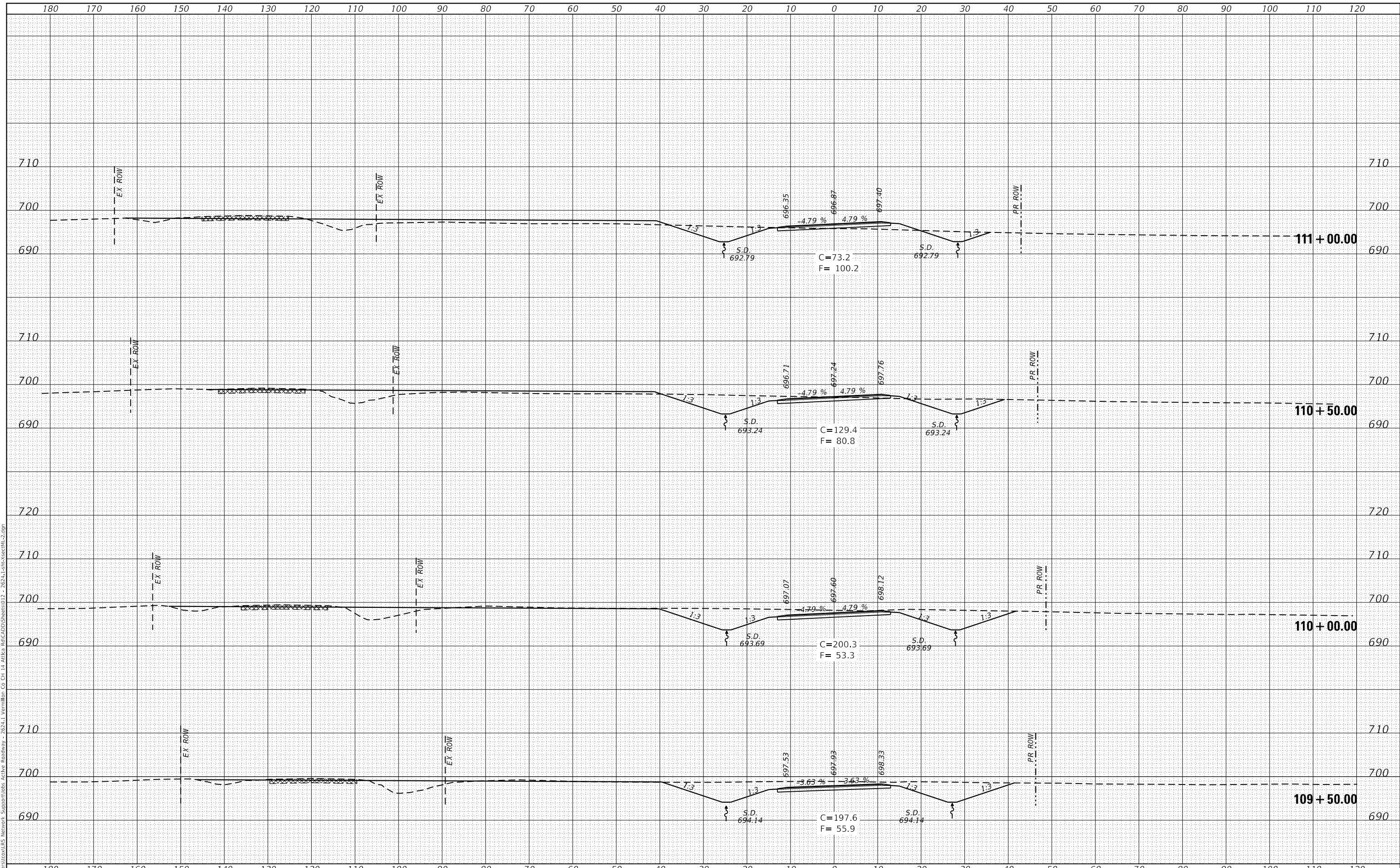
F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-SP	VERMILION	80	74
CONTRACT NO. 91610			ILLINOIS FED. AID PROJECT	



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

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

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**CEC** Cummins Engineering Corporation  
Civil and Structural Engineering

JOB=2624.1  
FILE NAME = 012 - 2624.1-sht-XsectML-2.dgn  
PLOT SCALE = 20.0000 ' / in.  
PLOT DATE = 10/7/2021

DESIGNED - TEC  
DRAWN - TEC  
CHECKED - CGF  
DATE - 10-6-2021

REVISED -  
REVISED -  
REVISED -  
REVISED -

**VERMILION COUNTY  
CH 14 IMPROVEMENT**

**PR CH 14 CROSS SECTIONS**

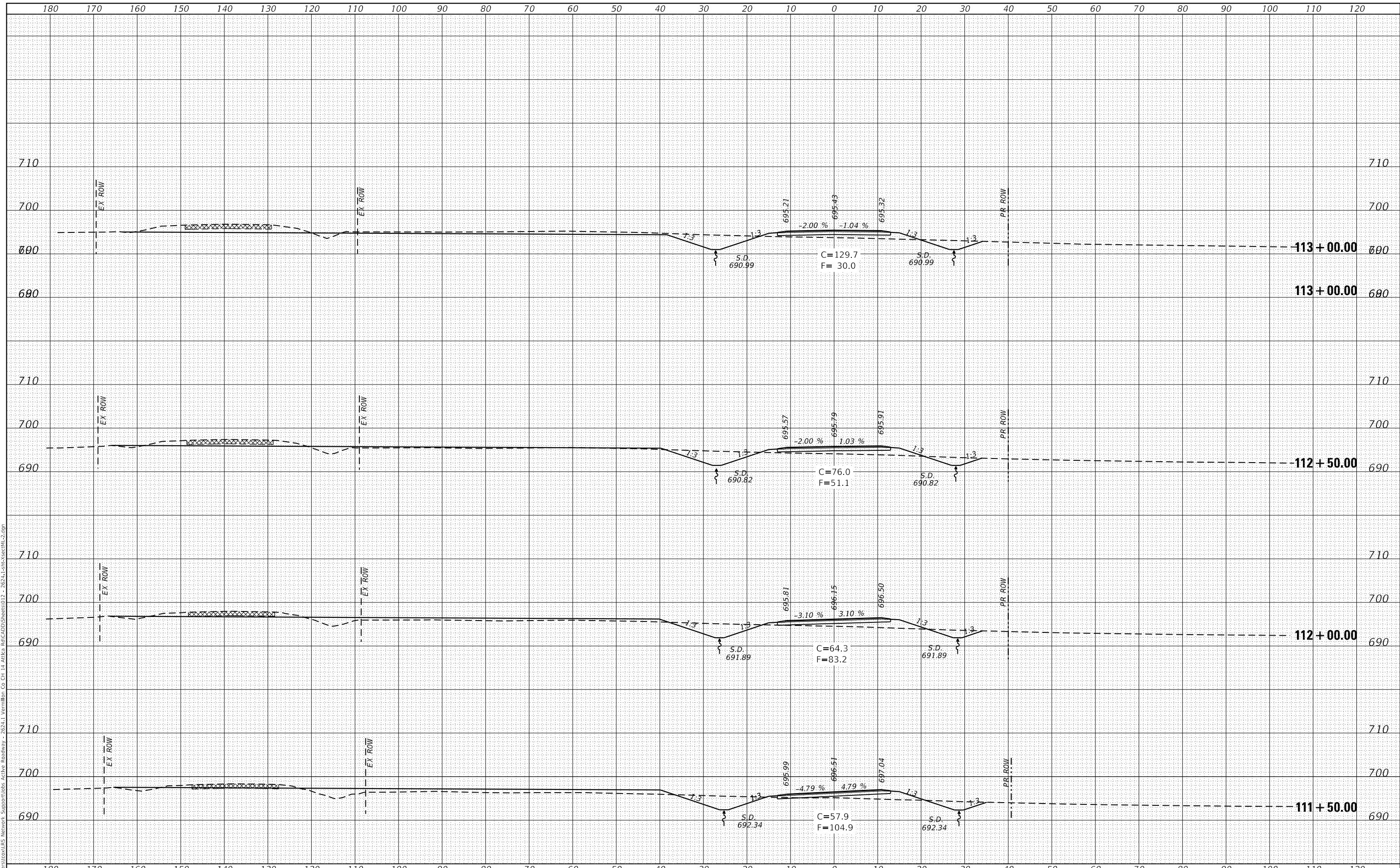
SCALE: 1"=10' SHEET OF SHEETS STA. 109+50.00 TO STA. 111+00.00

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-SP	VERMILION	80	73
CONTRACT NO. 91610			ILLINOIS FED. AID PROJECT	

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

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

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JOB=2624.1  
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 PLOT SCALE = 20.0000' / in.  
 PLOT DATE = 10/7/2021

DESIGNED - TEC  
 DRAWN - TEC  
 CHECKED - CGF  
 DATE - 10-6-2021

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**PR CH 14 CROSS SECTIONS**

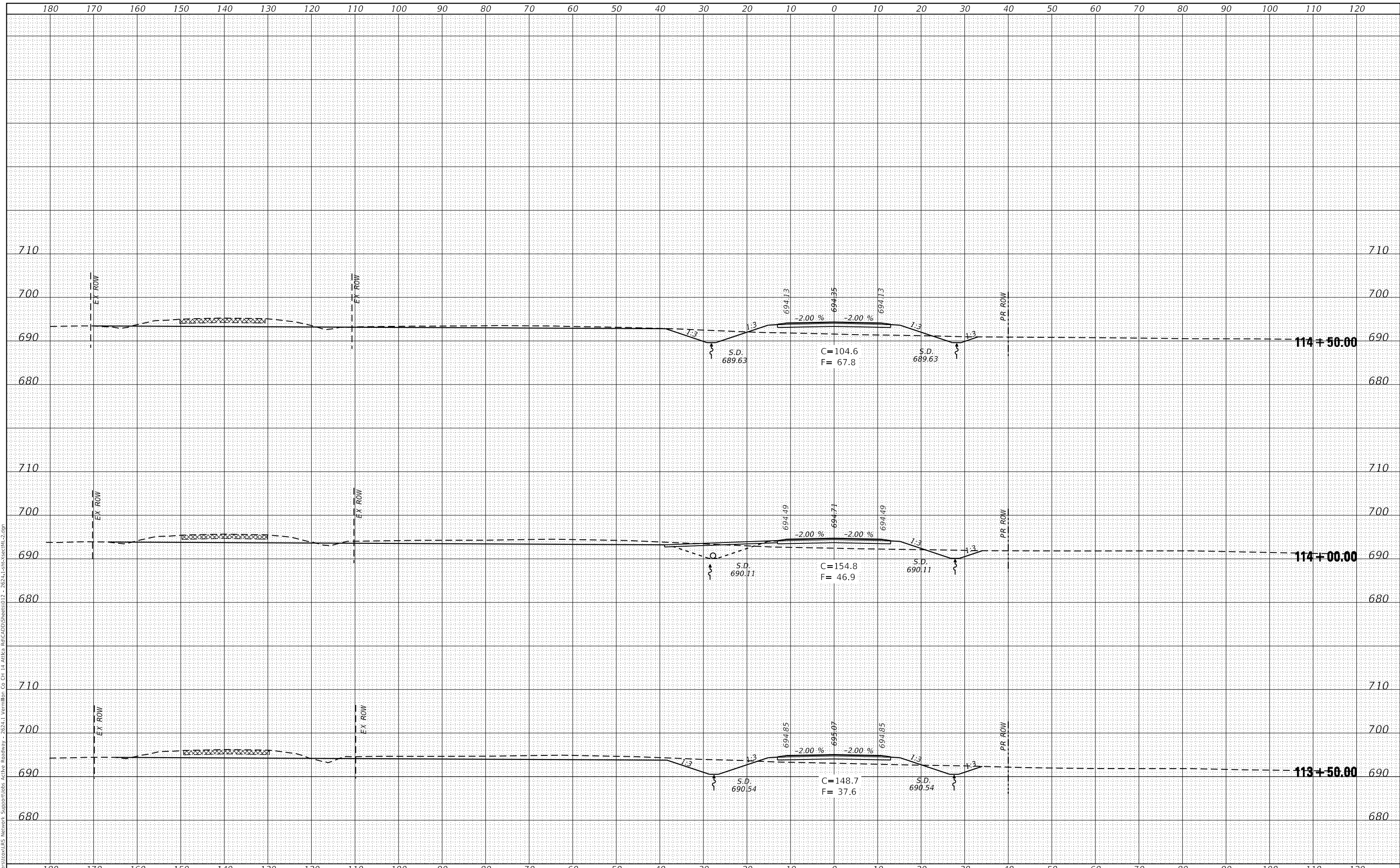
SCALE: 1"=10' SHEET OF SHEETS STA. 111+50.00 TO STA. 113+00.00

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	72
CONTRACT NO. 91610			ILLINOIS FED. AID PROJECT	

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

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

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**CEC** Cummins Engineering Corporation  
 Civil and Structural Engineering

JOB=2624.1  
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 PLOT SCALE = 20.0000' / in.  
 PLOT DATE = 10/7/2021

DESIGNED - TEC  
 DRAWN - TEC  
 CHECKED - CGF  
 DATE - 10-6-2021

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**PR CH 14 CROSS SECTIONS**

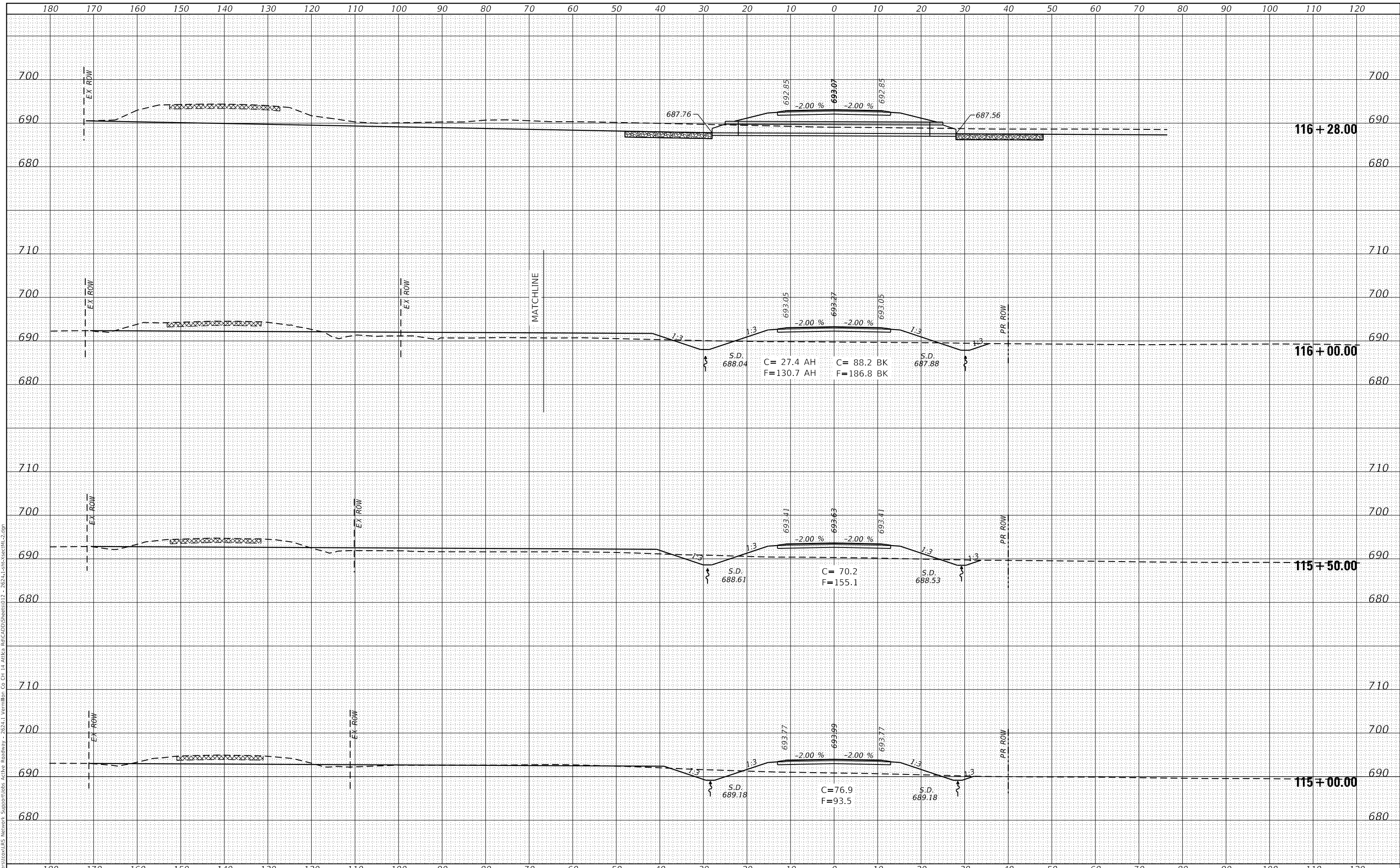
SCALE: 1"=10' SHEET OF SHEETS STA. 113+50.00 TO STA. 114+50.00

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-SP	VERMILION	80	71
CONTRACT NO. 91610				
ILLINOIS FED. AID PROJECT				

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

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

MODEL: Default  
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 PLOT SCALE = 20.0000 ' / in.  
 PLOT DATE = 10/7/2021

DESIGNED - TEC  
 DRAWN - TEC  
 CHECKED - CGF  
 DATE - 10-6-2021

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**PR CH 14 CROSS SECTIONS**

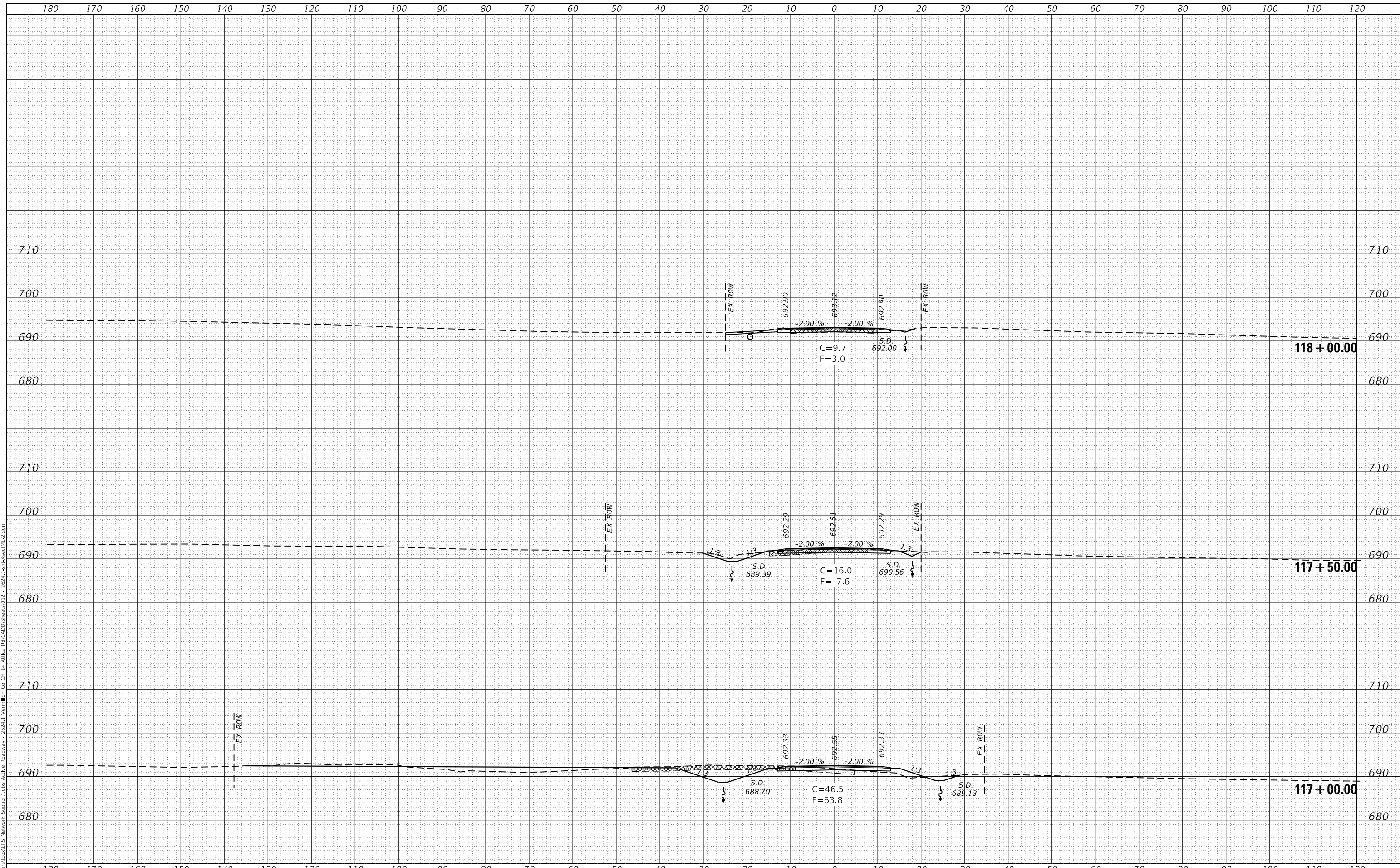
SCALE: 1"=10'  
 SHEET OF SHEETS STA. 115+00.00 TO STA. 116+56.11

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	70
CONTRACT NO. 91610			ILLINOIS FED. AID PROJECT	

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

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

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

JOB=2624.1  
 FILE NAME = 012 - 2624.1-sht-xsectML-2.dgn  
 PLOT SCALE = 20.0000 ' / in.  
 PLOT DATE = 10/7/2021

DESIGNED -	TEC	REVISED -	
DRAWN -	TEC	REVISED -	
CHECKED -	CGF	REVISED -	
DATE -	10-6-2021	REVISED -	

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**PR CH 14 CROSS SECTIONS**

SCALE: 1"=10' SHEET OF SHEETS STA. 117+00.00 TO STA. 118+00.00

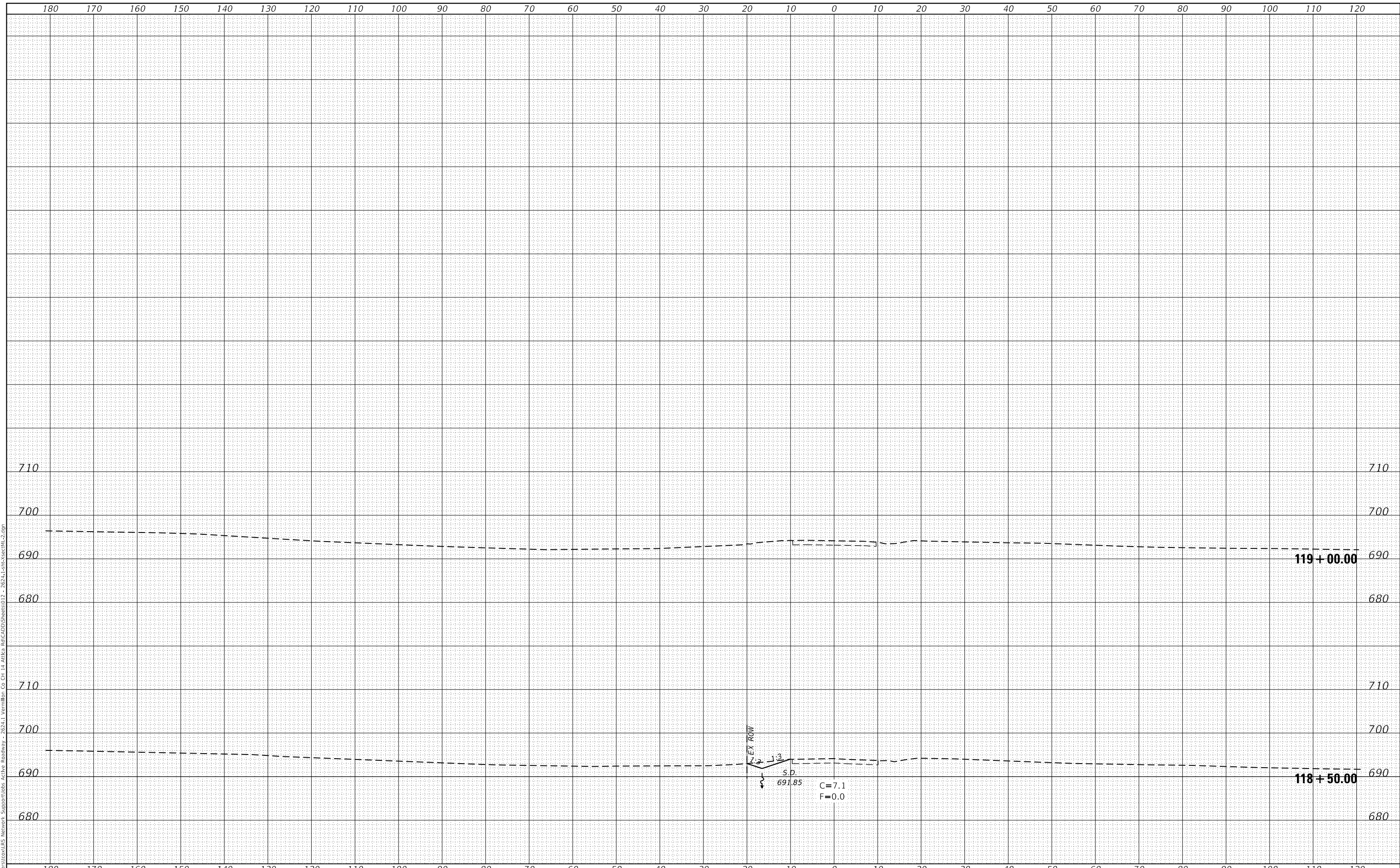
F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	69
CONTRACT NO. 91610				

ILLINOIS FED. AID PROJECT

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

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

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

JOB=2624.1  
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 PLOT SCALE = 20.0000 ' / in.  
 PLOT DATE = 10/7/2021

DESIGNED -	TEC	REVISED -	
DRAWN -	TEC	REVISED -	
CHECKED -	CGF	REVISED -	
DATE -	10-6-2021	REVISED -	

**VERMILION COUNTY  
 CH 14 IMPROVEMENT**

**PR CH 14 CROSS SECTIONS**

SCALE: 1"=10'    SHEET    OF    SHEETS    STA. 118+50.00    TO STA. 119+00.00

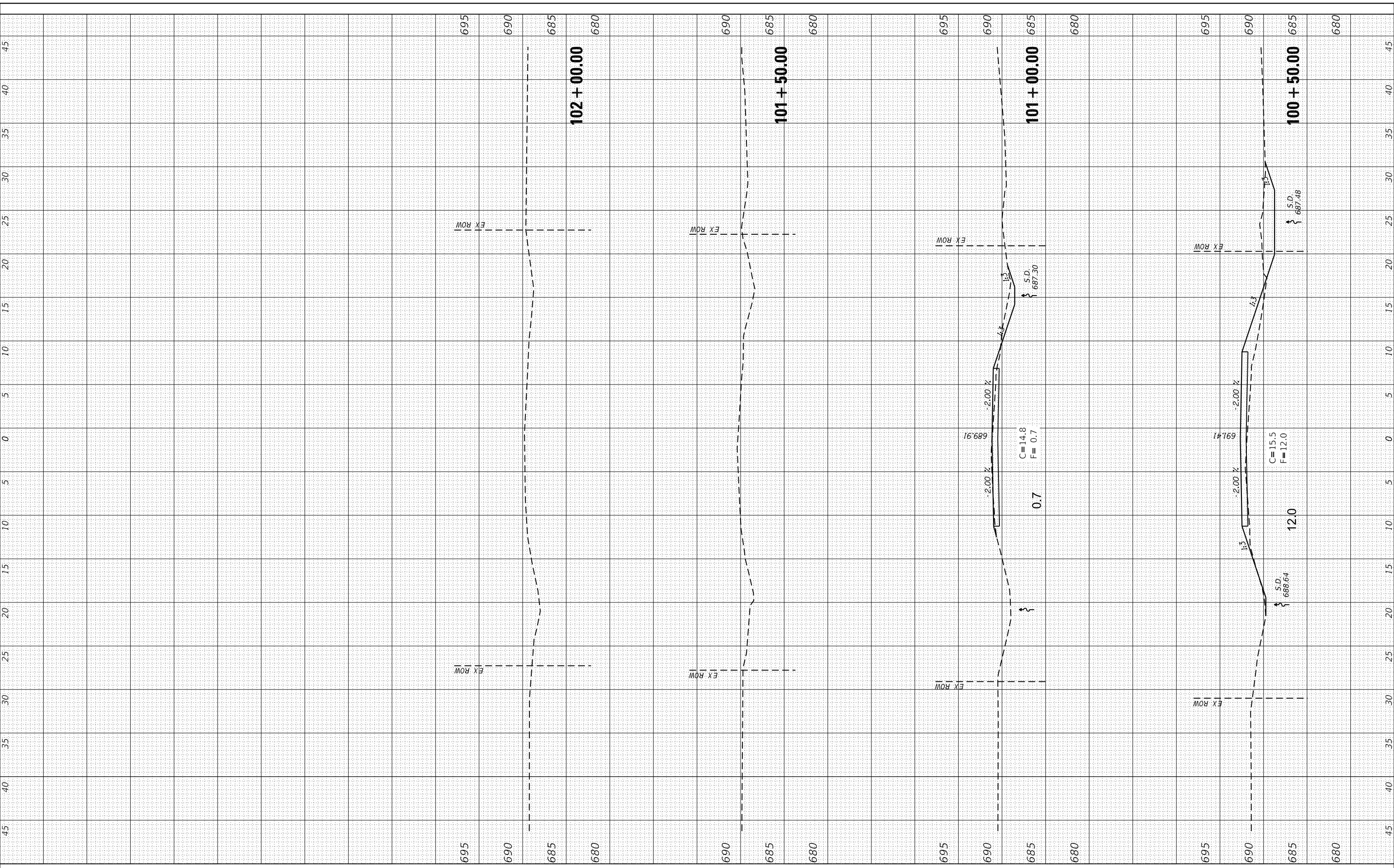
F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-SP	VERMILION	80	68
				CONTRACT NO. 91610

ILLINOIS FED. AID PROJECT

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

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

MODEL: Default  
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PLOT SCALE = 10,0000 ' / in.  
PLOT DATE = 10/7/2021



**CEC** Cummins Engineering Corporation  
Civil and Structural Engineering

DESIGNED - TEC  
DRAWN - TEC  
CHECKED - CGF  
DATE - 10-6-2021

REVISED -  
REVISED -  
REVISED -  
REVISED -

**VERMILION COUNTY  
CH 14 IMPROVEMENT**

**STATE LINE ROAD CROSS SECTIONS**

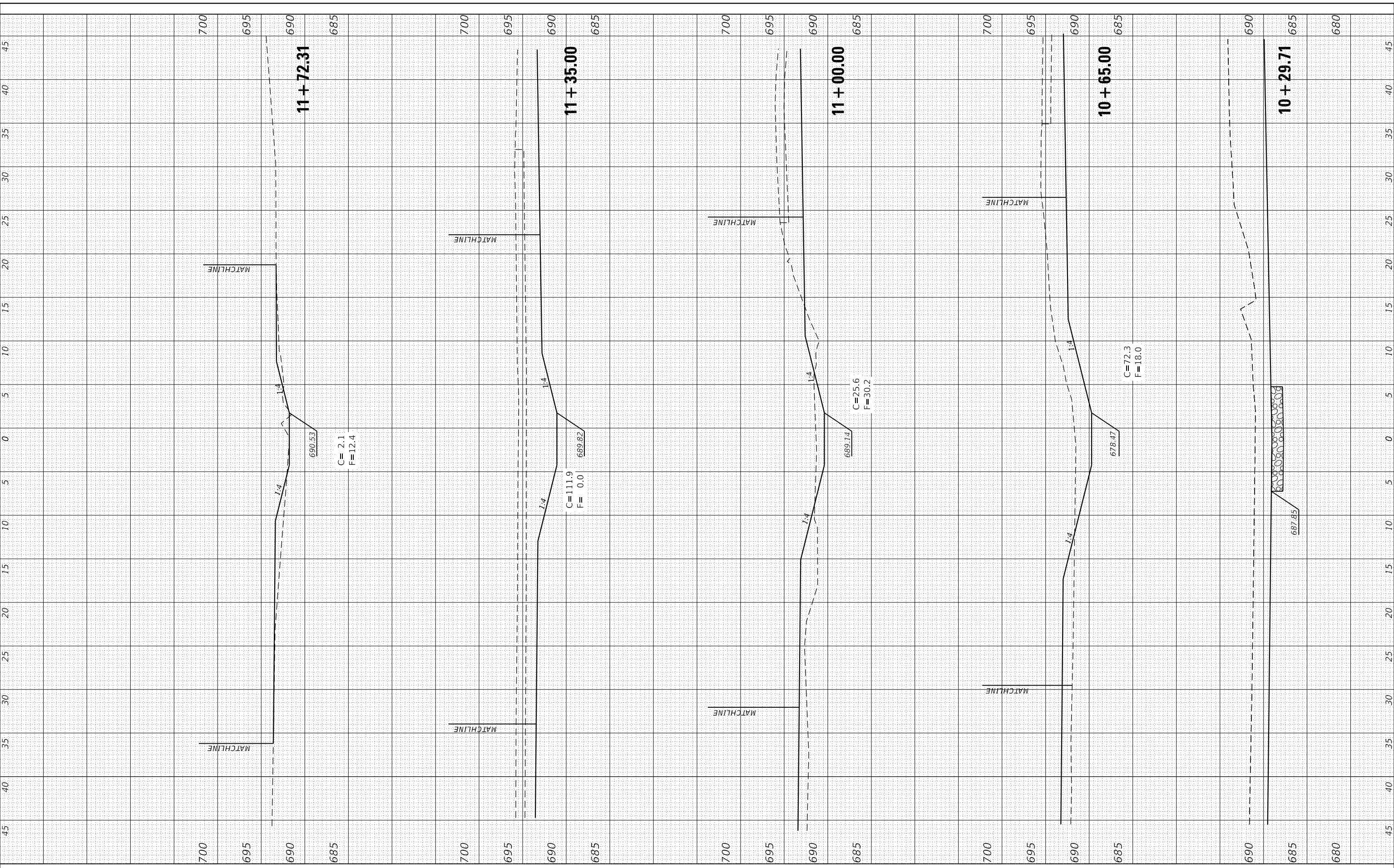
SCALE: 1"=5' SHEET OF SHEETS STA. 100+50.00 TO STA. 102+16.38

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	79
CONTRACT NO. 91610				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL: Default  
FILE NAME: C:\Users\cex\LS\_Network\Support\Draws - 2624\1 - sht-Xsect\ML-3.dgn



**CEC** Cummins Engineering Corporation  
Civil and Structural Engineering

JOB=2624.1  
FILE NAME = 013 - 2624.1-sht-XsectML-3.dgn  
PLOT SCALE = 10,0000 ' / in.  
PLOT DATE = 10/7/2021

DESIGNED - TEC  
DRAWN - TEC  
CHECKED - CGF  
DATE - 10-6-2021

REVISED -  
REVISED -  
REVISED -  
REVISED -

**VERMILION COUNTY  
CH 14 IMPROVEMENT**

**PROPOSED DITCH CROSS SECTIONS**

SCALE: 1" = 5' SHEET OF SHEETS STA. 10+29.71 TO STA. 11+72.31

F.A.S. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
496	19-00216-00-5P	VERMILION	80	80
CONTRACT NO. 91610				
ILLINOIS FED. AID PROJECT				