

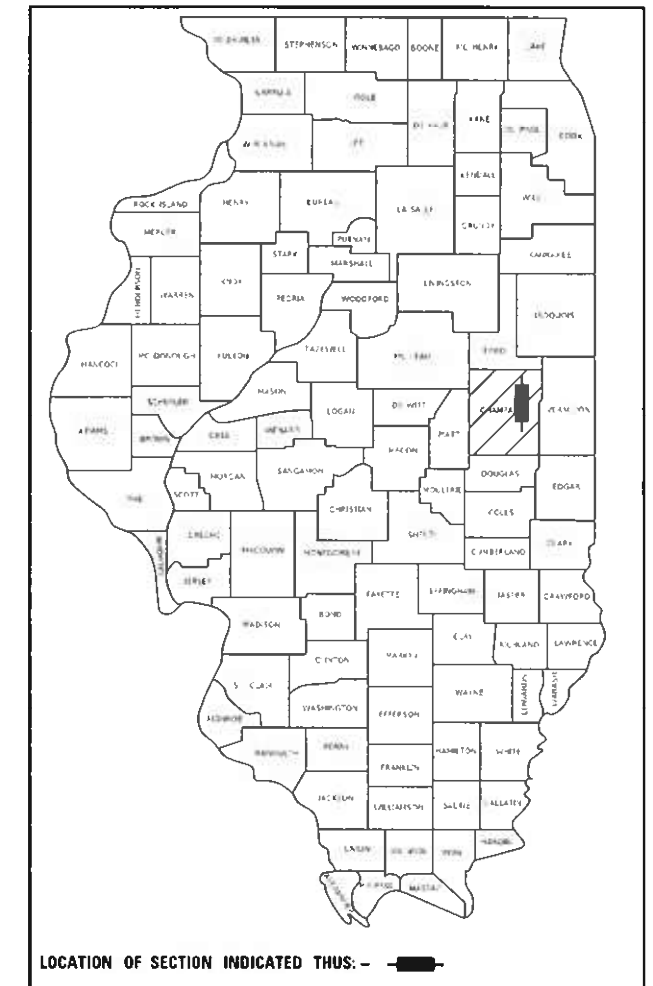
11-06-2002 LETTING ITEM 032  
 FOR INDEX OF SHEETS, SEE SHEET NO. 2  
 FOR SUMMARY OF QUANTITIES, SEE SHEETS NO. 4-10

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516		CHAMPAIGN	91	I
		ILLINOIS	CONTRACT NO. 70616	

\*77-00089-01-BR-1

D-95-130-06



LOCATION OF SECTION INDICATED THUS: - [shaded box]

# PROPOSED HIGHWAY PLANS

FAS ROUTE 516 (C.H. 12 /ST. JOSEPH RD.)  
 SECTION 77-00089-01-BR-1  
 PROJECT STP-BTKA(611)  
 BRIDGE REPLACEMENT  
 CHAMPAIGN COUNTY

C-95-130-06

SALT FORK VERMILION RIVER 0.5 MI NE OF SIDNEY

Design Designation - 100(19) Collector 0.50 (HMA-20)

STRUCTURAL DESIGN TRAFFIC		Year	2016
PV =	86.7%	SU =	10.3%
		MU =	3.0%
ROAD/STREET CLASSIFICATION Class III			
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE			
P =	50%	S =	50%
		M =	50%
TRAFFIC FACTOR: Actual TF = 0.24 Minimum TF = NO. MIN.			
PG GRADE: Top Bander = PG 64-22 Lower Bander = PG 64-22			
Surface = PG 64-22			
SUBGRADE SUPPORT RATING			
SSR = POOR (Sta 19+82.08 to 31+67.18)			
SSR = (Sta to )			

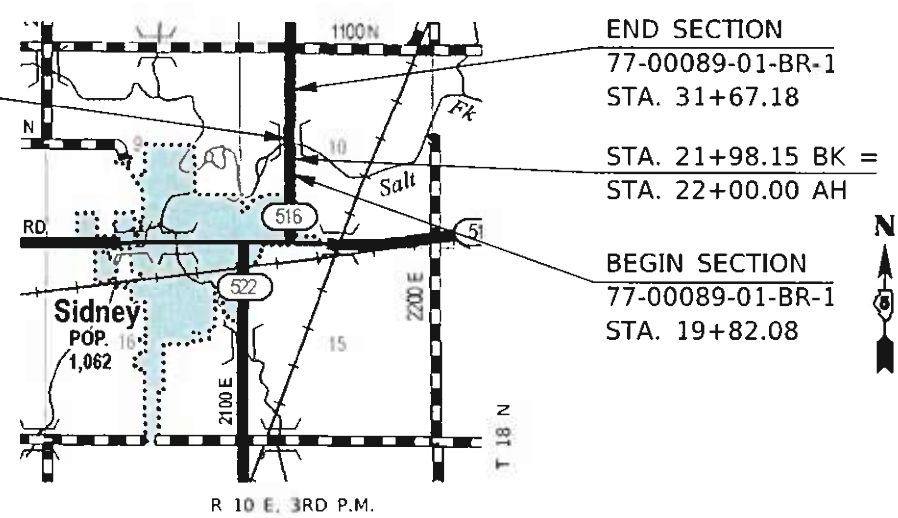
BRIDGE REPLACEMENT  
 EXISTING S.N. 010-0090  
 PROPOSED S.N. 010-0293

TRAFFIC DATA

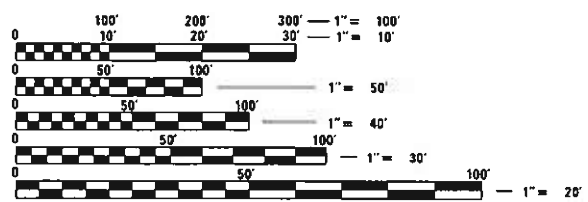
2019 ADT	=	850
PV%	=	91.7%
SU%	=	5.9%
MU%	=	2.4%

TOWNSHIP:  
 SIDNEY

BRIDGE REPLACEMENT  
 EXIST. S.N. 010-0090  
 EXIST. STA. 26+87.50  
 PROP. S.N. 010-0293  
 PROP. STA. 26+61.50  
 2-SPANS AT 267'-0" AT B-B ABUTS.  
 54" PLATE GIRDER BRIDGE  
 34'-10" OUT TO OUT WIDTH  
 00°00'00" SKEW



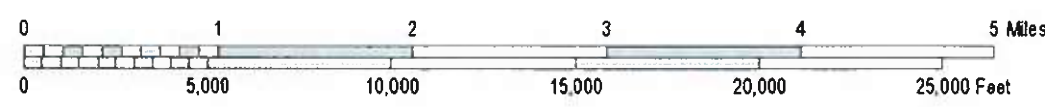
END SECTION  
 77-00089-01-BR-1  
 STA. 31+67.18  
 STA. 21+98.15 BK =  
 STA. 22+00.00 AH  
 BEGIN SECTION  
 77-00089-01-BR-1  
 STA. 19+82.08



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

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

PROJECT ENGINEER: JASON W. STULTS  
 SQUAD LEADER: RYAN T. CARROLL  
 DESIGNER: TYLER J. PIERSON  
 PHONE: (217)-465-4181  
 CONTRACT NO. 70616



GROSS LENGTH = 267.00 FT. = 0.051 MILE  
 NET LENGTH = 1183.25 FT. = 0.224 MILE

FUNCTIONAL CLASSIFICATION  
 MAJOR COLLECTOR

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION  
 SUBMITTED 8/10 20 20  
 Kensil A. Barnett  
 REGIONAL ENGINEER  
 October 2, 2020  
 Scott A. Etk  
 ENGINEER OF DESIGN AND ENVIRONMENT  
 October 2, 2020  
 Jason W. Stults  
 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
 OF THE STATE OF ILLINOIS

# INDEX OF SHEETS

DESCRIPTION	SHEET NO.
COVER SHEET	1
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GENERAL NOTES	3
SUMMARY OF QUANTITIES	4 to 11
TYPICAL CROSS-SECTIONS	12 to 13
SCHEDULE OF QUANTITIES	14 to 18
CONTROL POINTS	19
REMOVAL PLAN SHEETS	20 to 21
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DRAINAGE PLAN AND PROFILE SHEETS	25 to 28
STRUCTURE PLANS	29 to 52
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GUARDRAIL LAYOUT DETAIL	54 to 55
GUTTER TRANSITION DETAIL	56
BENCHING DETAIL	57
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FIELD ENTRANCE DETAIL	59
DISTRICT 5 DETAILS	60 to 66
CROSS-SECTIONS	67 to 91

# LIST OF STANDARDS

STANDARD NO.	DESCRIPTION
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
515001-04	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
602306-03	INLET - TYPE B
602401-06	PRECAST MANHOLE TYPE A 4' (1.22 m) DIAMETER
602601-06	PRECAST REINFORCED CONCRETE FLAT SLAB TOP
602701-02	MANHOLE STEPS
604041-03	FRAME AND GRATE TYPE 10
604101-01	MEDIAN INLET FOR 24" (600 mm) REINFORCED CONCRETE PIPE
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606201-04	TYPE B GUTTER (INLET, OUTLET & ENTRANCE)
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-16	TRAFFIC BARRIER TERMINAL, TYPE 6
666001-01	RIGHT OF WAY MARKERS
667101-02	PERMANENT SURVEY MARKERS
701001-02	OFF-RD OPERATIONS, 2L, 2W MORE THAN 15' (4.5M) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY
701336-07	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES FOR SPEEDS ≥ 45 MPH
701901-08	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

# COMMITMENTS

Parcel No. 5587003

As a result of right-of-way negotiations, please be advised of the following:

Per the proposed design plans the large oak tree located at 48.5' Rt. Station 28+10.5' at the southern edge of the yard will not be impacted or disturbed by the construction project. This large oak tree lies within the proposed acquisition area.

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	DRAWN -	REVISED -
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PLOT DATE = 8/5/2020	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS & LIST OF STANDARDS  
& COMMITMENTS

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	2
			CONTRACT NO. 70616	

ILLINOIS FED. AID PROJECT

\*77-00089-01-BR-1

# GENERAL NOTES

**G.N. - 100B**

MICROSTATION AND GEOPAK FILES OF THIS PROJECT WILL BE MADE AVAILABLE TO THE CONTRACTOR AFTER CONTRACT AWARD. IF THERE IS A CONFLICT BETWEEN THE ELECTRONIC FILES AND THE PRINTED CONTRACT PLANS AND DOCUMENTS, THE PRINTED CONTRACT PLANS AND DOCUMENTS SHALL TAKE PRECEDENCE OVER THE ELECTRONIC FILES. THE CONTRACTOR SHALL ACCEPT ALL RISK ASSOCIATED WITH USING THE ELECTRONIC FILES AND SHALL HOLD THE DEPARTMENT HARMLESS FOR ANY ERRORS OR OMISSIONS IN THE ELECTRONIC FILES AND THE DATA CONTAINED THEREIN. ERRORS OR DELAYS RESULTING FROM THE USE OF THE ELECTRONIC FILES BY THE CONTRACTOR SHALL NOT RESULT IN AN EXTENSION OF TIME FOR ANY INTERIM OR FINAL COMPLETION DATE OR SHALL NOT BE CONSIDERED CAUSE FOR ADDITIONAL COMPENSATION. THE CONTRACTOR SHALL NOT USE, SHARE, OR DISTRIBUTE THESE ELECTRONIC FILES EXCEPT FOR THE PURPOSE OF CONSTRUCTING THIS CONTRACT. ANY CLAIMS BY THIRD PARTIES DUE TO USE OR ERRORS SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR SHALL INCLUDE THIS DISCLAIMER WITH THE TRANSFER OF THESE ELECTRONIC FILES TO ANY OTHER PARTIES AND SHALL INCLUDE APPROPRIATE LANGUAGE BINDING THEM TO SIMILAR RESPONSIBILITIES.

**G.N.-105.09A**

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

**G.N.-201**

TREES THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS SHALL BE REMOVED AS DIRECTED BY THE ENGINEER. ANY TREE DUE TO ITS LOCATION AND DEEMED SUITABLE FOR SAVING BY THE ENGINEER SHALL BE PROTECTED DURING CLEARING AND SUBSEQUENT CONSTRUCTION OPERATIONS.

**G.N.-205**

BENCHING PROCEDURES SHALL BE USED IN AREAS WHERE EXISTING EMBANKMENTS ARE WIDENED FOR THE PROPOSED PAVEMENT. STEPS SHALL BE CUT INTO THE EXISTING EMBANKMENT SLOPES AND SHALL HAVE THE FOLLOWING DIMENSIONS:

HORIZONTAL: VARIES  
VERTICAL: 3'

**G.N. -406H**

MIXTURE REQUIREMENTS

THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

Location	St. Joseph Road	St. Joseph Road
Mixture Use	Mainline Surface, Top 2" of Shoulder & Incidental	Mainline Binder & Bottom 5 1/2" of Shoulder
AC/PG	PG 64-22	PG 64-22
Design Air Voids	4.0% @ Ndes=50	4.0% @ Ndes=50
Mix Comp(Gradation)	IL 9.5	IL 19.0
Friction Aggregate	Mix C	N.A.
Mixture Weight	112	112
Quality Management Program	QC/QA	QC/QA
Sublot Size	N.A.	N.A.

**G.N.-501**

THE REMOVAL OF EXISTING APPROACH SLABS ARE INCLUDED IN THE COST OF "REMOVAL OF EXISTING STRUCTURES."

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PLOT DATE = 8/5/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES**

SCALE: SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	3
CONTRACT NO. 70616				
ILLINOIS FED. AID PROJECT				

# SUMMARY OF QUANTITIES

LOCATION OF WORK:  FUNDING BREAKOUT: CONSTRUCTION TYPE CODE:	FAS 516 ST. JOSEPH RD RURAL STA. 19+82.08 STA. 31+67.18 CHAMPAIGN CO 80% FED / 20% STATE 0010
---	--

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
20100500	TREE REMOVAL, ACRES	ACRE	0.25
20200100	EARTH EXCAVATION	CU YD	430.00
20300100	CHANNEL EXCAVATION	CU YD	2,771.00
20400800	FURNISHED EXCAVATION	CU YD	2,305.00
20600200	GRANULAR EMBANKMENT, SPECIAL	CU YD	315.00
20800150	TRENCH BACKFILL	CU YD	263.00
21301084	EXPLORATION TRENCH 84" DEPTH	FOOT	108.00
25000210	SEEDING, CLASS 2A	ACRE	1.50
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	135.00
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	135.00
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	135.00
25100125	MULCH, METHOD 3	ACRE	1.50
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	600.00
28000305	TEMPORARY DITCH CHECKS	FOOT	52.00
* DENOTES SPECIALTY ITEM			

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# SUMMARY OF QUANTITIES

LOCATION OF WORK:	FAS 516 ST. JOSEPH RD RURAL STA. 19+82.08 STA. 31+67.18 CHAMPAIGN CO
FUNDING BREAKOUT:	80% FED / 20% STATE
CONSTRUCTION TYPE CODE:	0010

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	600.00
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1.00
50105220	PIPE CULVERT REMOVAL	FOOT	27.00
50200100	STRUCTURE EXCAVATION	CU YD	387.00
50200300	COFFERDAM EXCAVATION	CU YD	685.10
50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1.00
50300100	FLOOR DRAINS	EACH	8.00
50300225	CONCRETE STRUCTURES	CU YD	201.10
50300255	CONCRETE SUPERSTRUCTURE	CU YD	366.20
50300260	BRIDGE DECK GROOVING	SQ YD	1,085.00
50300265	SEAL COAT CONCRETE	CU YD	140.50
50300300	PROTECTIVE COAT	SQ YD	1,432.00
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1.00
50500505	STUD SHEAR CONNECTORS	EACH	2,844.00
* DENOTES SPECIALTY ITEM			

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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																	
516	*	CHAMPAIGN	91	6																	
CONTRACT NO. 70616																					

# SUMMARY OF QUANTITIES

LOCATION OF WORK: FAS 516  
 ST. JOSEPH RD  
 RURAL  
 STA. 19+82.08  
 STA. 31+67.18  
 CHAMPAIGN CO

FUNDING BREAKOUT: 80% FED / 20% STATE

CONSTRUCTION TYPE CODE: 0010

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	118,650.00
51201700	FURNISHING STEEL PILES HP12X74	FOOT	1,815.00
51202305	DRIVING PILES	FOOT	1,815.00
51203700	TEST PILE STEEL HP12X74	EACH	3.00
51204650	PILE SHOES	EACH	33.00
51500100	NAME PLATES	EACH	1.00
52000110	PREFORMED JOINT STRIP SEAL	FOOT	66.00
52100520	ANCHOR BOLTS, 1"	EACH	24.00
52100540	ANCHOR BOLTS, 1 1/2"	EACH	12.00
54213447	END SECTIONS 12"	EACH	2.00
54213660	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15"	EACH	1.00
542A0217	PIPE CULVERTS, CLASS A, TYPE 1 12"	FOOT	42.00
550B0050	STORM SEWERS, CLASS B, TYPE 1 12"	FOOT	29.00
550B0360	STORM SEWERS, CLASS B, TYPE 2 15"	FOOT	385.00
* DENOTES SPECIALTY ITEM			

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PLOT DATE = 8/5/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET 4 OF 8 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	7
CONTRACT NO. 70616				
ILLINOIS FED. AID PROJECT				

# SUMMARY OF QUANTITIES

LOCATION OF WORK: FAS 516  
 ST. JOSEPH RD  
 RURAL  
 STA. 19+82.08  
 STA. 31+67.18  
 CHAMPAIGN CO  
 FUNDING BREAKOUT: 80% FED / 20% STATE  
 CONSTRUCTION TYPE CODE: 0010

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
55100500	STORM SEWER REMOVAL 12"	FOOT	249.00
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	154.00
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	68.90
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	2.00
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	1.00
60100915	PIPE DRAINS 6"	FOOT	34.00
60108206	PIPE UNDERDRAINS, TYPE 2, 6"	FOOT	92.00
60220200	MANHOLES, TYPE A, 4'-DIAMETER	EACH	5.00
60222900	MANHOLES, TYPE A, 5'-DIAMETER	EACH	1.00
60240395	INLETS, TYPE B	EACH	1.00
60404700	FRAMES AND GRATES, TYPE 10	EACH	7.00
60500060	REMOVING INLETS	EACH	4.00
60602800	CONCRETE GUTTER, TYPE B	FOOT	627.00
60608300	COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12	FOOT	60.00
* DENOTES SPECIALTY ITEM			

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# SUMMARY OF QUANTITIES

LOCATION OF WORK: FAS 516  
 ST. JOSEPH RD  
 RURAL  
 STA. 19+82.08  
 STA. 31+67.18  
 CHAMPAIGN CO

FUNDING BREAKOUT: 80% FED / 20% STATE

CONSTRUCTION TYPE CODE: 0010

	CODE NO.	ITEM	UNIT	TOTAL QUANTITY
*	6300001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	300.00
*	6310085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4.00
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4.00
	63200310	GUARDRAIL REMOVAL	FOOT	160.00
	66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	EACH	15.00
	67000500	ENGINEER'S FIELD OFFICE, TYPE B	CAL MO	8.00
	67100100	MOBILIZATION	L SUM	1.00
	70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28.00
	70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	3,551.00
*	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4.00
*	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2,663.00
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	15.00
*	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	10.00
	X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	FOOT	1,184.00
* DENOTES SPECIALTY ITEM				

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								CONTRACT NO. 70616		ILLINOIS FED. AID PROJECT		

# SUMMARY OF QUANTITIES

LOCATION OF WORK: FAS 516  
 ST. JOSEPH RD  
 RURAL  
 STA. 19+82.08  
 STA. 31+67.18  
 CHAMPAIGN CO

FUNDING BREAKOUT: 80% FED / 20% STATE

CONSTRUCTION TYPE CODE: 0010

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
X4400196	HOT-MIX ASPHALT SURFACE REMOVAL, SPECIAL	SQ YD	8.00
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	421.00
X5012650	CONCRETE HEADWALL REMOVAL SPECIAL	EACH	2.00
X5030305	CONCRETE WEARING SURFACE, 5"	SQ YD	214.00
X5040100	PRECAST BRIDGE APPROACH SLAB	SQ FT	1,930.00
X6023610	MANHOLES, TYPE A, 4'-DIAMETER, WITH MEDIAN INLET, SPECIAL	EACH	1.00
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1.00
X8130125	REMOVE EXISTING JUNCTION BOX	EACH	1.00
* XZ193400	SURVEY MARKER, TYPE 2 (SPECIAL)	EACH	2.00
Z0001900	ASBESTOS BEARING PAD REMOVAL	EACH	60.00
Z0013798	CONSTRUCTION LAYOUT	L SUM	1.00
Z0018002	DRAINAGE SCUPPERS, DS-11	EACH	6.00
Z0037000	PAVEMENT CRACKING AND SEATING	SQ YD	628.00
* Z0038700	PERMANENT BENCH MARKS	EACH	1.00
* DENOTES SPECIALTY ITEM			

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	DRAWN -	REVISED -
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PLOT DATE = 8/5/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: SHEET 7 OF 8 SHEETS STA. TO STA.

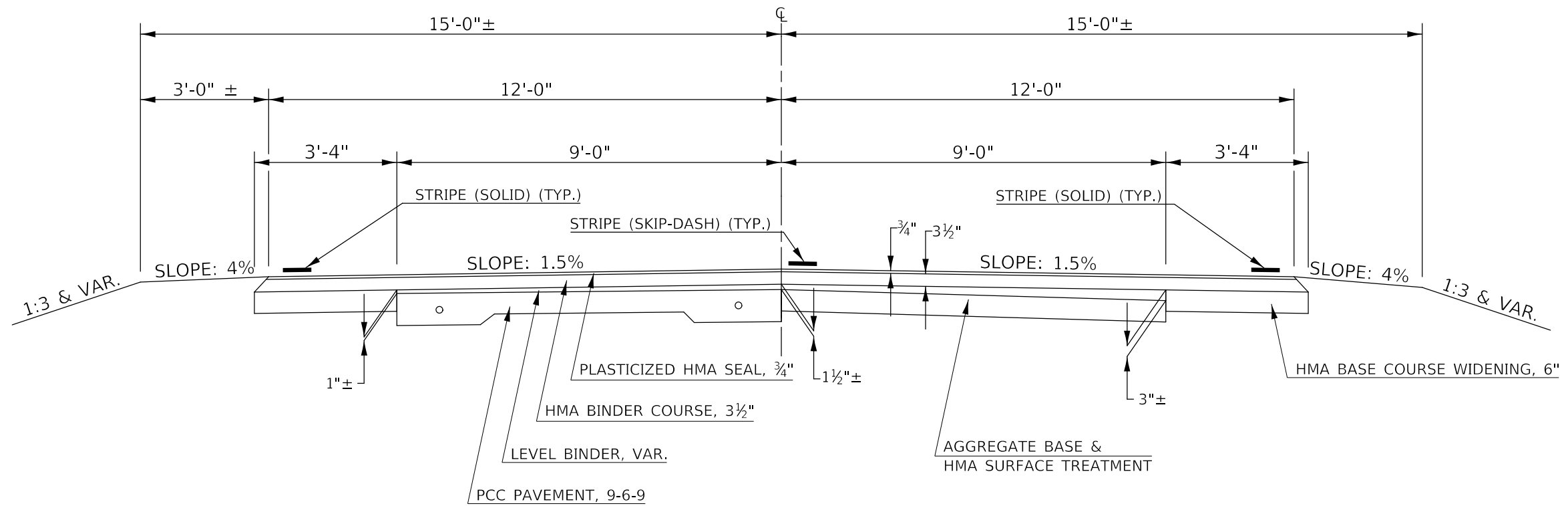
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	10
CONTRACT NO. 70616				



### EXISTING TYPICAL CROSS-SECTION

STA. 19+82.08 TO STA. 25+70.62

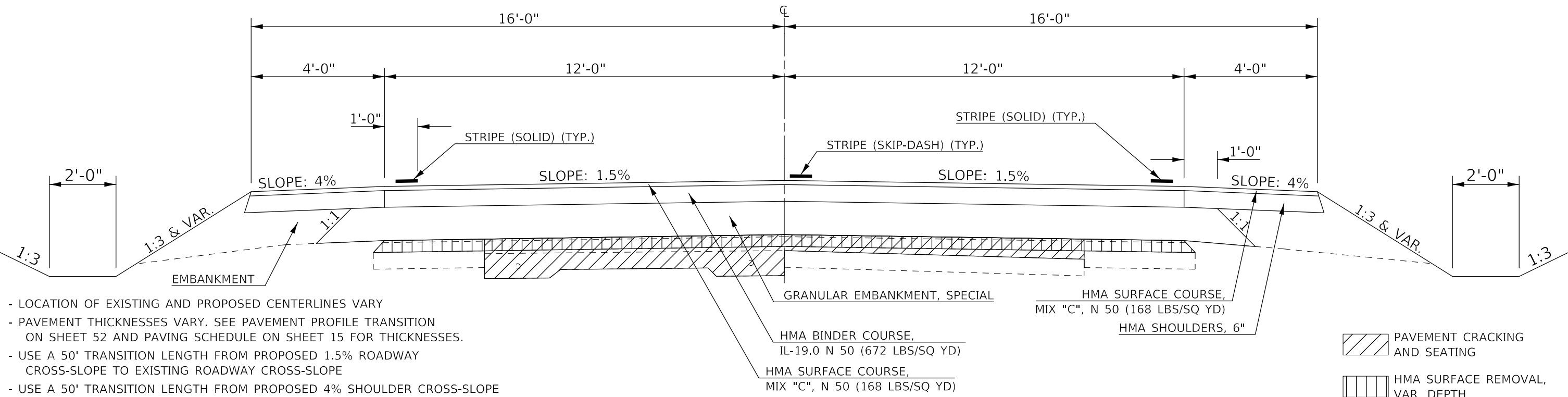
STA. EQN STA. 21+98.15 BK = STA. 22+00.00 AH



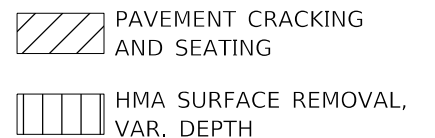
### PROPOSED TYPICAL CROSS-SECTION

STA. 19+82.08 TO STA. 24+84.00

STA. EQN STA. 21+98.15 BK = STA. 22+00.00 AH



- LOCATION OF EXISTING AND PROPOSED CENTERLINES VARY
- PAVEMENT THICKNESSES VARY. SEE PAVEMENT PROFILE TRANSITION ON SHEET 52 AND PAVING SCHEDULE ON SHEET 15 FOR THICKNESSES.
- USE A 50' TRANSITION LENGTH FROM PROPOSED 1.5% ROADWAY CROSS-SLOPE TO EXISTING ROADWAY CROSS-SLOPE
- USE A 50' TRANSITION LENGTH FROM PROPOSED 4% SHOULDER CROSS-SLOPE TO PROPOSED 2% BRIDGE CROSS SLOPE



MODEL: \\MODEL\MARTE... FILE: \\MARTE... \Project\0570616\CADD\Drawings\DOT\Office\Drawings\0570616-ah-Typical\_Cross\_Sections.dgn

USER NAME = PiersonTJ	DESIGNED -	REVISED -
PLOT SCALE = 3,000' / in.	DRAWN -	REVISED -
PLOT DATE = 8/5/2020	CHECKED -	REVISED -
	DATE -	REVISED -

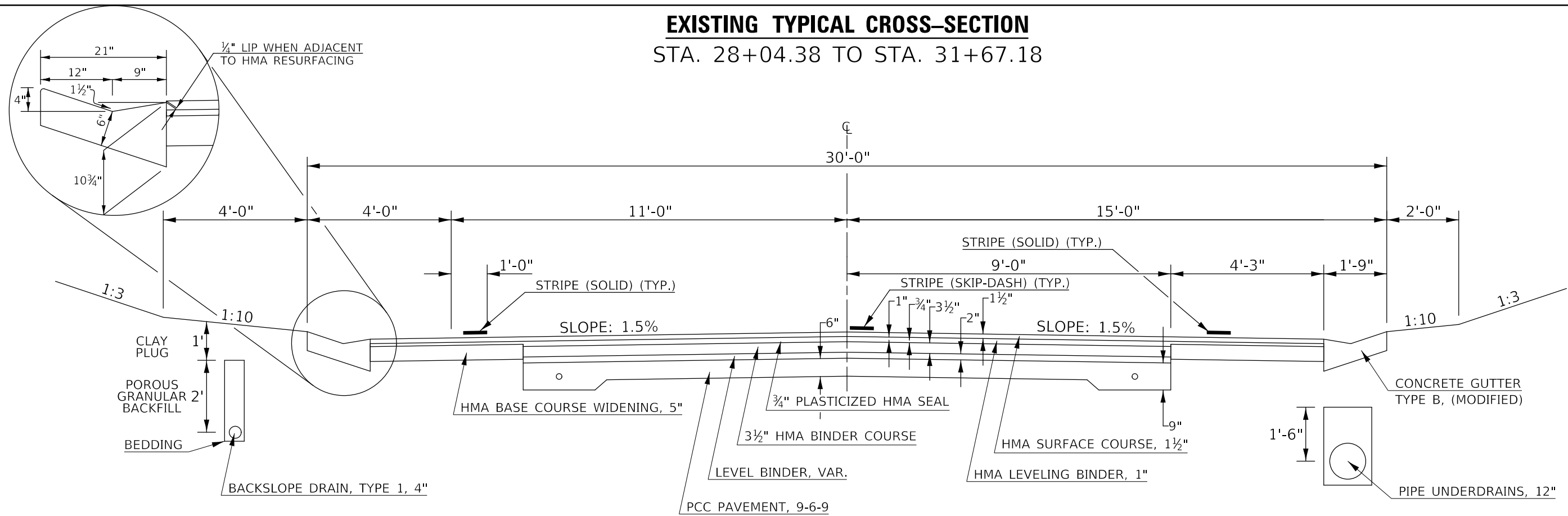
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>C.H. 12 (ST. JOSEPH RD.) TYPICAL CROSS-SECTION</b>	
SCALE: N.T.S.	SHEET 1 OF 2 SHEETS
STA.	TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	12
CONTRACT NO. 70616				
ILLINOIS FED. AID PROJECT				

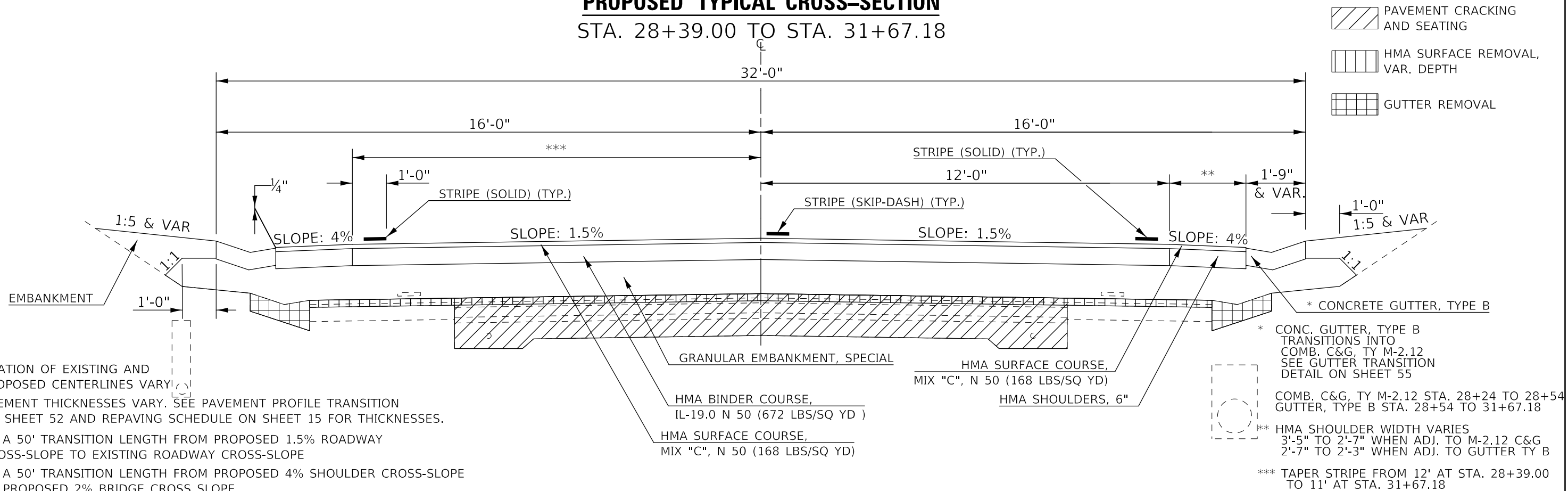
### EXISTING TYPICAL CROSS-SECTION

STA. 28+04.38 TO STA. 31+67.18



### PROPOSED TYPICAL CROSS-SECTION

STA. 28+39.00 TO STA. 31+67.18



- LOCATION OF EXISTING AND PROPOSED CENTERLINES VARY!
- PAVEMENT THICKNESSES VARY. SEE PAVEMENT PROFILE TRANSITION ON SHEET 52 AND REPAVING SCHEDULE ON SHEET 15 FOR THICKNESSES.
- USE A 50' TRANSITION LENGTH FROM PROPOSED 1.5% ROADWAY CROSS-SLOPE TO EXISTING ROADWAY CROSS-SLOPE
- USE A 50' TRANSITION LENGTH FROM PROPOSED 4% SHOULDER CROSS-SLOPE TO PROPOSED 2% BRIDGE CROSS SLOPE

\* CONC. GUTTER, TYPE B TRANSITIONS INTO COMB. C&G, TY M-2.12 SEE GUTTER TRANSITION DETAIL ON SHEET 55

COMB. C&G, TY M-2.12 STA. 28+24 TO 28+54 GUTTER, TYPE B STA. 28+54 TO 31+67.18

\*\* HMA SHOULDER WIDTH VARIES 3'-5" TO 2'-7" WHEN ADJ. TO M-2.12 C&G 2'-7" TO 2'-3" WHEN ADJ. TO GUTTER TY B

\*\*\* TAPER STRIPE FROM 12' AT STA. 28+39.00 TO 11' AT STA. 31+67.18

MODEL: 4-MODELNAME; FILE: 4-NAME; PROJECT: 4-PROJECT; OFFICE: 4-OFFICE; DATE: 4-DATE; DESIGN: 4-DESIGN; SHEET: 4-SHEET; TYPICAL: 4-TYPICAL; CROSS: 4-CROSS; SECTIONS: 4-SECTIONS

USER NAME = PiersonTJ	DESIGNED -	REVISED -
DRAWN -	REVISOR -	
PLOT SCALE = 3,0000' / in.	CHECKED -	REVISOR -
PLOT DATE = 8/5/2020	DATE -	REVISOR -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>C.H. 12 (ST. JOSEPH RD.) TYPICAL CROSS-SECTION</b>	
SCALE: N.T.S.	SHEET 2 OF 2 SHEETS
STA.	TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	13
CONTRACT NO. 70616				

# SCHEDULE OF QUANTITIES

## NB EARTHWORK SCHEDULE

STA	TO	STA	LENGTH FOOT	START NB CUT AREA SQ FT	START NB FILL AREA SQ FT	END NB CUT AREA SQ FT	END NB FILL AREA SQ FT	NB AVG CUT AREA SQ FT	NB AVG FILL AREA SQ FT	EARTH EXCAVATION CU YD	SHRINKAGE OF EARTH EXCAVATION CU YD	EARTH EMBANKMENT CU YD	EARTHWORK BALANCE WASTE (+) SHORTAGE (-) CU YD
19+66.55	TO	19+82.08	15.53	0.00	0.00	5.24	3.19	2.62	1.60	1.51	1.13	0.92	0.21
19+82.08	TO	20+00.00	17.92	5.24	3.19	7.35	5.39	6.30	4.29	4.18	3.14	2.85	0.29
20+00.00	TO	20+50.00	50.00	7.35	5.39	9.54	9.67	8.45	7.53	15.65	11.74	13.94	-2.20
20+50.00	TO	21+00.00	50.00	9.54	9.67	2.30	6.84	5.92	8.26	10.96	8.22	15.30	-7.08
21+00.00	TO	21+50.00	50.00	2.30	6.84	4.40	23.09	3.35	14.97	6.20	4.65	27.72	-23.07
21+50.00	TO	21+98.15	48.15	4.40	23.09	4.66	33.61	4.53	28.35	8.08	6.06	50.56	-44.50
STA. EQUATION 21+98.15 BK = 22+00.00 AH													
22+00.00	TO	22+50.00	50.00	4.66	33.61	5.00	46.11	4.83	39.86	8.94	6.71	73.81	-67.10
22+50.00	TO	23+00.00	50.00	5.00	46.11	5.04	61.98	5.02	54.05	9.30	6.98	100.09	-93.11
23+00.00	TO	23+50.00	50.00	5.04	61.98	4.10	90.79	4.57	76.39	8.46	6.35	141.46	-135.11
23+50.00	TO	24+00.00	50.00	4.10	90.79	4.36	101.98	4.23	96.39	7.83	5.87	178.50	-172.63
24+00.00	TO	24+50.00	50.00	4.36	101.98	4.20	111.37	4.28	106.68	7.93	5.95	197.56	-191.61
24+50.00	TO	25+00.00	50.00	4.20	111.37	3.92	124.44	4.06	117.91	7.52	5.64	218.35	-212.71
25+00.00	TO	25+50.00	50.00	3.92	124.44	4.74	0.00	4.33	62.22	8.02	6.02	115.22	-109.20
25+50.00	TO	26+00.00	50.00	4.74	0.00	2.81	0.00	3.78	0.00	7.00	5.25	0.00	5.25
26+00.00	TO	26+50.00	50.00	2.81	0.00	36.62	0.00	19.72	0.00	36.52	27.39	0.00	27.39
26+50.00	TO	27+00.00	50.00	36.62	0.00	0.00	0.00	18.31	0.00	33.91	25.43	0.00	25.43
27+00.00	TO	27+50.00	50.00	0.00	0.00	0.00	6.21	0.00	3.11	0.00	0.00	5.76	-5.76
27+50.00	TO	28+00.00	50.00	0.00	6.21	0.00	0.42	0.00	3.32	0.00	0.00	6.15	-6.15
28+00.00	TO	28+50.00	50.00	0.00	0.42	0.00	4.18	0.00	2.30	0.00	0.00	4.26	-4.26
28+50.00	TO	29+00.00	50.00	0.00	4.18	0.00	2.17	0.00	3.18	0.00	0.00	5.89	-5.89
29+00.00	TO	29+50.00	50.00	0.00	2.17	0.00	6.17	0.00	4.17	0.00	0.00	7.72	-7.72
29+50.00	TO	30+00.00	50.00	0.00	6.17	0.16	0.97	0.08	3.57	0.15	0.11	6.61	-6.50
30+00.00	TO	30+50.00	50.00	0.16	0.97	0.64	0.01	0.40	0.49	0.74	0.56	0.91	-0.35
30+50.00	TO	31+00.00	50.00	0.64	0.01	0.60	0.00	0.62	0.01	1.15	0.86	0.02	0.84
31+00.00	TO	31+50.00	50.00	0.60	0.00	1.12	0.00	0.86	0.00	1.59	1.19	0.00	1.19
31+50.00	TO	31+67.18	17.18	1.12	0.00	0.00	0.00	0.56	0.00	0.36	0.27	0.00	0.27
NORTHBOUND SUB-TOTALS =										184.49	138.39	1172.68	-1034.29

AREAS MEASURED IN CADD  
SHRINKAGE FACTOR = 25%

## SB EARTHWORK SCHEDULE

STA	TO	STA	LENGTH FOOT	START SB CUT AREA SQ FT	START SB FILL AREA SQ FT	END SB CUT AREA SQ FT	END SB FILL AREA SQ FT	SB AVG CUT AREA SQ FT	SB AVG FILL AREA SQ FT	EARTH EXCAVATION CU YD	SHRINKAGE OF EARTH EXCAVATION CU YD	EARTH EMBANKMENT CU YD	EARTHWORK BALANCE WASTE (+) SHORTAGE (-) CU YD
19+66.55	TO	19+82.08	15.53	0.00	0.00	15.91	7.55	7.96	3.78	4.58	3.44	2.17	1.27
19+82.08	TO	20+00.00	17.92	15.91	7.55	15.81	7.15	15.86	7.35	10.53	7.90	4.88	3.02
20+00.00	TO	20+50.00	50.00	15.81	7.15	13.86	20.57	14.84	13.86	27.48	20.61	25.67	-5.06
20+50.00	TO	21+00.00	50.00	13.86	20.57	10.79	30.54	12.33	25.56	22.83	17.12	47.33	-30.21
21+00.00	TO	21+50.00	50.00	10.79	30.54	8.00	33.84	9.40	32.19	17.41	13.06	59.61	-46.55
21+50.00	TO	21+98.15	48.15	8.00	33.84	7.11	40.71	7.56	37.28	13.48	10.11	66.48	-56.37
STA. EQUATION 21+98.15 BK = 22+00.00 AH													
22+00.00	TO	22+50.00	50.00	7.11	40.71	5.52	50.97	6.32	45.84	11.70	8.78	84.89	-76.11
22+50.00	TO	23+00.00	50.00	5.52	50.97	5.08	62.88	5.30	56.93	9.81	7.36	105.43	-98.07
23+00.00	TO	23+50.00	50.00	5.08	62.88	4.43	79.76	4.76	71.32	8.81	6.61	132.07	-125.46
23+50.00	TO	24+00.00	50.00	4.43	79.76	3.55	119.80	3.99	99.78	7.39	5.54	184.78	-179.24
24+00.00	TO	24+50.00	50.00	3.55	119.80	3.67	136.54	3.61	128.17	6.69	5.02	237.35	-232.33
24+50.00	TO	25+00.00	50.00	3.67	136.54	3.45	154.25	3.56	145.40	6.59	4.94	269.26	-264.32
25+00.00	TO	25+50.00	50.00	3.45	154.25	3.69	0.00	3.57	77.13	6.61	4.96	142.83	-137.87
25+50.00	TO	26+00.00	50.00	3.69	0.00	0.00	18.60	1.85	9.30	3.43	2.57	17.22	-14.65
26+00.00	TO	26+50.00	50.00	0.00	18.60	35.42	0.00	17.71	9.30	32.80	24.60	17.22	7.38
26+50.00	TO	27+00.00	50.00	35.42	0.00	0.00	0.00	17.71	0.00	32.80	24.60	0.00	24.60
27+00.00	TO	27+50.00	50.00	0.00	0.00	11.92	0.00	5.96	0.00	11.04	8.28	0.00	8.28
27+50.00	TO	28+00.00	50.00	11.92	0.00	0.00	0.00	5.96	0.00	11.04	8.28	0.00	8.28
28+00.00	TO	28+50.00	50.00	0.00	0.00	0.00	10.62	0.00	5.31	0.00	0.00	9.83	-9.83
28+50.00	TO	29+00.00	50.00	0.00	10.62	0.00	8.11	0.00	9.37	0.00	0.00	17.35	-17.35
29+00.00	TO	29+50.00	50.00	0.00	8.11	0.00	7.18	0.00	7.65	0.00	0.00	14.17	-14.17
29+50.00	TO	30+00.00	50.00	0.00	7.18	0.10	4.95	0.05	6.07	0.09	0.07	11.24	-11.17
30+00.00	TO	30+50.00	50.00	0.10	4.95	0.67	0.38	0.39	2.67	0.72	0.54	4.94	-4.40
30+50.00	TO	31+00.00	50.00	0.67	0.38	0.99	0.00	0.83	0.19	1.54	1.16	0.35	0.81
31+00.00	TO	31+50.00	50.00	0.99	0.00	0.92	0.00	0.96	0.00	1.78	1.34	0.00	1.34
31+50.00	TO	31+67.18	17.18	0.92	0.00	0.00	0.00	0.46	0.00	0.29	0.22	0.00	0.22
SOUTHBOUND SUB-TOTAL =										244.86	183.67	1452.9	-1269.23
COMBINED SUB-TOTAL =										429.35	322.06	2625.58	-2303.52
20200100 EARTH EXCAVATION =												430.00 CU YD	
20400800 FURNISHED EXCAVATION =												2305.00 CU YD	

AREAS MEASURED IN CADD  
SHRINKAGE FACTOR = 25%

## GRANULAR EMBANKMENT, SPECIAL SCHEDULE

STA.	TO	STA.	LENGTH FOOT	START WIDTH FOOT	END WIDTH FOOT	PAVEMENT						GUTTER				31100200 SUBBASE GRANULAR MATERIAL, TYPE A	20600200 GRANULAR EMBANK SPECIAL	
						TYPE A AVERAGE START THICKNESS FOOT	TYPE A AVERAGE END THICKNESS FOOT	TYPE A CROSS- SECTIONAL AREA SQ FT	GES AVERAGE START THICKNESS FOOT	GES AVERAGE END THICKNESS FOOT	GES CROSS- SECTIONAL AREA SQ FT	START WIDTH FOOT	END WIDTH FOOT	AVERAGE START THICKNESS FOOT	AVERAGE END THICKNESS FOOT	CROSS- SECTIONAL AREA SQ FT	CU YD	CU YD
23+08.83	TO	23+32.82	23.99	26.00	26.00	0.25	0.33	7.54	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.70	0	
23+32.82	TO	23+82.82	50.00	26.00	26.00	0.33	0.33	8.58	0.00	0.24	3.12	0.00	0.00	0.00	0.00	15.89	5.78	
23+82.82	TO	24+32.82	50.00	26.00	26.00	0.33	0.33	8.58	0.24	0.38	8.06	0.00	0.00	0.00	0.00	15.89	14.93	
24+32.82	TO	24+84.00	51.18	26.00	26.00	0.33	0.33	8.58	0.38	0.62	13.00	0.00	0.00	0.00	0.00	16.26	24.64	
24+84.00	TO	24+96.00	12.00	26.00	26.00	0.00	0.00	0.00	1.88	1.17	39.65	0.00	0.00	0.00	0.00	0.00	17.62	
24+96.00	TO	25+06.00	10.00	26.00	26.00	0.00	0.00	0.00	0.67	0.67	17.42	0.00	0.00	0.00	0.00	0.00	6.45	
+	25+06.00	TO	25+18.00	12.00	26.00	0.00	0.00	0.00	1.50	1.50	39.00	0.00	0.00	0.00	0.00	0.00	17.33	
BRIDGE OMISSION																		
+	28+04.00	TO	28+17.00	13.00	28.83	28.83	0.00	0.00	0.00	1.04	1.00	29.43	5.50	5.50	1.54	8.36	0.00	18.2
28+17.00	TO	28+27.00	10.00	28.83	28.83	0.00	0.00	0.00	0.17	0.17	4.90	5.50	5.50	0.67	3.69	0.00	3.18	
28+27.00	TO	28+39.00	12.00	28.83	28.83	0.00	0.00	0.00	0.67	1.42	30.13	5.50	5.50	1.17	1.92	8.50	17.17	
28+39.00	TO	28+50.00	11.00	28.83	28.83	0.33	0.33	9.52	1.42	1.38	40.37	5.50	5.50	2.25	2.21	12.27	21.45	
28+50.00	TO	29+00.00	50.00	28.83	28.50	0.33	0.33	9.46	1.38	1.04	34.69	5.50	5.50	2.21	1.87	11.22	85.02	
29+00.00	TO	29+50.00	50.00	28.50	28.50	0.33	0.33	9.41	1.04	0.36	19.95	5.50	5.50	1.87	1.19	8.42	52.54	
29+50.00	TO	29+77.47	27.47	28.50	28.50	0.33	0.33	9.41	0.36	0.00	5.13	5.50	5.50	1.19	0.83	5.56	10.88	
29+77.47	TO	29+84.81	7.34	28.50	28.50	0.33	0.25	8.27	0.00	0.00	0.00	5.50	5.50	0.83	0.75	4.35	2.25	1.18
* 29+84.81	TO	30+00.00	15.19	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.50	5.50	0.50	0.50	2.75	0.00	1.55
* 30+00.00	TO	30+50.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.50	5.50	0.50	0.50	2.75	0.00	5.09
* 30+50.00	TO	31+00.00	50.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	5.50	5.50	0.50	0.50	2.75	0.00	5.09
* 31+00.00	TO	31+50.00	50.00	0.														



# SCHEDULE OF QUANTITIES

PAVING SCHEDULE																								
STA	TO	STA	LENGTH FOOT	AVG EXIST LANE WIDTH FOOT	AVG PROP LANE WIDTH FOOT	EXIST LANE AREA SQ YD	PROP LANE AREA SQ YD	START HMA SURF THICKNESS IN	END HMA SURF THICKNESS IN	START HMA BINDER THICKNESS IN	END HMA BINDER THICKNESS IN	TACK COAT ON MILLED HMA POUND	TACK COAT ON EX. HMA SURFACE POUND	TACK COAT ON HMA BINDER POUND	PRIME COAT ON GES POUND	X4401198	40604050	40603080	Z0037000	44000100	40600290	40600275		
																HMA SURF REMOVAL VAR DEPTH SQ YD	HMA SURFACE IL-9.5 MIX "C", N50 TON	HMA BINDER IL-19, N50 TON	PAVEMENT CRACKING AND SEATING SQ YD	PAVEMENT REMOVAL SQ YD	BIT MATL (TACK COAT) POUND	PRIME COAT POUND		
19+82.08	TO	20+18.58	36.50	24.00	24.0	97.3	97.3	1.50	1.50			43.8				97.33		8.20					43.80	
20+18.58	TO	20+68.53	49.95	24.00	24.0	133.2	133.2	1.50	3.75			59.9					19.60						59.94	
20+68.53	TO	21+98.15	129.62	24.00	24.0	345.7	345.7	1.50	1.50	2.25	4.50		155.5	77.8			29.00	65.30					233.32	
STA. EQN. STA. 21+98.15 = STA. 22+00.00																								
22+00.00	TO	22+37.21	37.21	24.00	24.0	99.2	99.2	1.50	1.50	4.50	6.00		44.7	22.3			8.30	29.20					66.98	
22+37.21	TO	23+10.68	73.47	24.00	24.0	195.9	195.9	1.50	1.50	6.00	9.00		88.2	44.1			16.50	82.30					132.25	
23+10.68	TO	24+84.00	173.32	24.00	24.0	462.2	462.2	1.50	1.50	6.00	6.00			104.0	1,039.9		38.80	155.30	351.26				103.99	1,039.92
24+84.00	TO	25+70.62	86.62	24.00	24.0	231.0	231.0													230.99				
BRIDGE OMISSION																								
28+24.00	TO	28+39.00	15.00	26.50	24.0	44.2	40.0													44.17				
28+39.00	TO	29+77.47	138.47	26.50	24.0	407.7	369.3	1.50	1.50	6.00	6.00			83.1	830.8		31.00	124.10	276.71				83.08	830.82
29+77.47	TO	30+08.74	31.27	26.50	24.0	92.1	83.4	1.50	1.50	9.00	9.00		37.5	18.8			7.00	35.00					56.29	
30+08.74	TO	30+41.11	32.37	26.50	24.0	95.3	86.3	1.50	1.50	6.00	2.25		38.8	19.4			7.30	19.90					58.27	
30+41.11	TO	30+57.53	16.42	26.50	24.0	48.3	43.8	3.75	1.50			19.7					6.40						19.70	
30+57.53	TO	31+67.18	109.65	26.50	24.0	322.9	292.4	1.50	1.50			131.6					322.86	24.60					131.58	
																TOTALS =	420.19	196.70	511.10	627.97	275.15	989.19	1,870.74	
																ROUNDED-TOTALS =	421.00	197.00	512.00	628.00	276.00	990.00	1,871.00	

\*PRIME COAT + TACK COAT APPLICATION RATES:  
TACK COAT APPLICATION: 0.050 LBS / SQ FT FOR HMA SURFACE ON MILLED HMA  
TACK COAT APPLICATION: 0.050 LBS / SQ FT FOR HMA SURFACE ON EXISTING HMA SURFACE  
TACK COAT APPLICATION: 0.025 LBS / SQ FT FOR HMA SURFACE ON HMA BINDER  
PRIME COAT APPLICATION: 0.25 LBS / SQ FT FOR HMA BINDER ON GRANULARE EMBANKMENT SPECIAL  
SEE PROFILE TRANSITION DETAIL ON SHEET NUMBER 53  
40600290 AND 40603310 CONTINUE ON HMA SHOULDER SCHEDULES

INCIDENTAL RESURFACING SCHEDULE							
SIDE	STATION	EXISTING AREA SQ FT	PROPOSED AGG AREA SQ FT	AGG THICK IN	X4400196	40200800	AGG SURFACE COURSE TY B
					HMA SURF REMOVAL SPECIAL SQ YD	TON	
RT	20+62.24	67.60			7.51		
RT	20+80.73		1043.23	6.00			34.77
					TOTALS =	7.51	34.77
					ROUNDED-TOTALS =	8.00	35.00

SEE DIMENSIONS ON PLAN AND PROFILE SHEET

GUTTER REMOVAL SCHEDULE						
SIDE	STA	TO	STA	LENGTH	44000400	
				FOOT	GUTTER REMOVAL FOOT	
RT	28+20.31	TO	31+67.71	347.40	348.00	
LT	28+19.99	TO	31+67.71	347.72	348.00	
					TOTALS =	696.00

PAVEMENT CONNECTOR SCHEDULE						
STA	TO	STA	LENGTH FOOT	PAVEMENT WIDTH FOOT	42000080	
					PAVE CONNECT (PCC) FOR BRIDGE APPR SQ YD	
24+84.00	TO	24+99.00	15.00	32.0	53.33	
28+24.00	TO	28+39.00	15.00	30.83	51.39	
					TOTALS =	104.72
					ROUNDED-TOTALS =	105.00

NORTHBOUND HMA SHOULDER SCHEDULE									
STA	TO	STA	LENGTH FOOT	SURFACE MIX THICKNESS IN	AVERAGE SHOULDER WIDTH FOOT	40600290	40604050	48203021	
						BIT MATL (TACK COAT) POUND	HMA SURFACE, IL-9.5 MIX "C", N50 TON	HMA SHOULDER 6" SQ YD	
19+82.08	TO	20+50.00	67.92	1.50	3.07	5.21	1.95	23.17	
20+50.00	TO	21+98.15	148.15	1.50	4.00	14.82	5.53	65.84	
STA. EQUATION 21+98.15 BK = 22+00.00 AH									
22+00.00	TO	24+84.00	284.00	1.50	4.00	28.40	10.60	126.22	
BRIDGE OMISSION									
28+39.00	TO	28+60.00	21.00	1.50	2.83	1.49	0.55	6.60	
28+60.00	TO	31+53.96	293.96	1.50	2.25	16.54	6.17	73.49	
31+53.96	TO	31+67.18	13.22	1.50	1.70	0.56	0.21	2.50	
						NORTHBOUND TOTALS =	67.02	25.01	297.82
						NORTHBOUND ROUNDED-TOTALS =	68.00	26.00	298.00

TACK COAT APPLICATION RATE: 0.025 LBS / SQ FT FOR HMA SURFACE ON HMA SHOULDER  
40600290 AND 40603310 CONTINUE ON PAVING SCHEDULE

SOUTHBOUND HMA SHOULDER SCHEDULE									
STA	TO	STA	LENGTH FOOT	SURFACE MIX THICKNESS IN	AVERAGE SHOULDER WIDTH FOOT	40600290	40604050	48203021	
						BIT MATL (TACK COAT) POUND	HMA SURFACE, IL-9.5 MIX "C", N50 TON	HMA SHOULDER 6" SQ YD	
19+82.08	TO	20+50.00	67.92	1.50	3.47	5.89	2.20	26.19	
20+50.00	TO	21+98.15	148.15	1.50	4.00	14.82	5.53	65.84	
STA. EQUATION 21+98.15 BK = 22+00.00 AH									
22+00.00	TO	24+84.00	284.00	1.50	4.00	28.40	10.60	126.22	
BRIDGE OMISSION									
28+39.00	TO	28+60.00	21.00	1.50	2.83	1.49	0.55	6.60	
28+60.00	TO	31+57.88	297.88	1.50	2.25	16.76	6.26	74.47	
31+57.88	TO	31+67.18	9.30	1.50	1.86	0.43	0.16	1.92	
						SOUTHBOUND TOTALS =	67.79	25.30	301.24
						SOUTHBOUND ROUNDED-TOTALS =	68.00	26.00	302.00
						TOTALS =	136.00	52.00	600.00

TACK COAT APPLICATION RATE: 0.025 LBS / SQ FT FOR HMA SURFACE ON HMA SHOULDER  
40600290 AND 40603310 CONTINUE ON PAVING SCHEDULE

MODEL: \\MODEL\NAMES  
FILE: \\MODEL\NAMES\PROJECTS\05706\06\CADD\DATA\Design\0570616-sh-Schedule.dgn

USER NAME = PiersonJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/5/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCHEDULE OF QUANTITIES			
SCALE:	SHEET 3 OF 5 SHEETS	STA.	TO STA.

F.A.S. RTE. 516	SECTION *	COUNTY CHAMPAIGN	TOTAL SHEETS 91	SHEET NO. 16
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70616	





# SCHEDULE OF QUANTITIES

CENTERLINE PAVEMENT MARKING SCHEDULE					
STATION	TO	STATION	70300220	78001110	X0327980
			TEMP PAVEMENT MARKING LINE 4" FOOT	PAINT PAVEMENT MARKING LINE 4" (YELLOW SKIP) FOOT	PAVEMENT MARKING REMOVAL WATER BLAST SQ FT
19+82.00	TO	21+98.15	216.15	54.04	72.05
STA. EQUATION 21+98.15 BK = 22+00.00 AH					
22+00.00	TO	31+67.18	967.18	241.80	322.39
SUB-TOTALS =			1,183.33	295.83	394.44
ROUNDED SUB-TOTALS =			1,184.00	296.00	395.00

PAYITEMS CONTINUE ON EOP PAVEMENT MARKING SCHEDULE

EOP PAVEMENT MARKING SCHEDULE					
STATION	TO	STATION	70300220	78001110	X0327980
			TEMP PAVEMENT MARKING LINE 4" (WHITE SOLID) FOOT	PAINT PAVEMENT MARKING LINE 4" (WHITE SOLID) FOOT	PAVEMENT MARKING REMOVAL WATER BLAST SQ FT
NORTHBOUND LANE					
19+82.00	TO	21+98.15	216.15	216.15	72.05
STA. EQUATION 21+98.15 BK = 22+00.00 AH					
22+00.00	TO	31+67.18	967.18	967.18	322.39
NORTHBOUND SUB-TOTALS =			1,183.33	1,183.33	394.44
SOUTHBOUND LANE					
19+82.00	TO	21+98.15	216.15	216.15	72.05
STA. EQUATION 21+98.15 BK = 22+00.00 AH					
22+00.00	TO	31+67.18	967.18	967.18	322.39
SOUTHBOUND SUB-TOTALS =			1,183.33	1,183.33	394.44
GRAND SUB-TOTALS =			2,366.66	2,366.66	788.88
ROUNDED SUB-TOTALS =			2,367.00	2,367.00	789.00

PAYITEMS CONTINUE ON CENTERLINE PAVEMENT MARKING SCHEDULE

SURVEY MARKER SCHEDULE			
STA	CURRENT DESCRIPTION	XZ193400	EACH
		SURVEY MARKER TYPE 2 (SPL)	
22+86.20	IP		1.00
30+60.28	IP		1.00
TOTAL =			2.00

ROW MARKERS SCHEDULE			
STA	SIDE	OFFSET	66600105
			FURNISH ERECT ROW MARKERS EACH
19+57.00	RT	30.00	1.00
19+57.00	RT	30.00	1.00
19+57.00	LT	30.00	1.00
19+57.00	LT	50.00	1.00
22+00.00	RT	50.00	1.00
22+00.00	RT	70.00	1.00
22+00.00	LT	50.00	1.00
22+00.00	LT	70.00	1.00
26+09.00	LT	70.00	1.00
26+09.00	LT	55.00	1.00
26+97.00	LT	55.00	1.00
28+25.00	RT	70.00	1.00
28+25.00	RT	45.00	1.00
29+00.00	RT	45.00	1.00
29+00.00	RT	30.00	1.00
TOTAL =			15.00

RAISED REFLECTIVE PAVEMENT MARKER SCHEDULE					
STA	TO	STA	78100100	EACH	
			RAISED REFLECTIVE PAVEMENT MARKER		
19+82.00	TO	21+98.15	216.15	80.00	4.00
STA. EQN STA. 21+98.15 (BK) = STA. 22+00.00 (AH)					
22+00.00	TO	24+84.00	284.00	79.00	5.00
28+39.00	TO	31+67.18	328.18	80.00	6.00
TOTAL =					15.00

CONCRETE HEADWALL REMOVAL SCHEDULE			
STA	OFFSET	SIDE	X5012650
			CONCRETE HEADWALL REMOVAL SPECIAL EACH
27+88.00	23.2	LT	1.00
27+89.00	22.8	RT	1.00
TOTAL =			2.00

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	DRAWN -	REVISED -
PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/5/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SCHEDULE OF QUANTITIES</b>	
SCALE:	SHEET 5 OF 5 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	18
CONTRACT NO. 70616				
ILLINOIS FED. AID PROJECT				

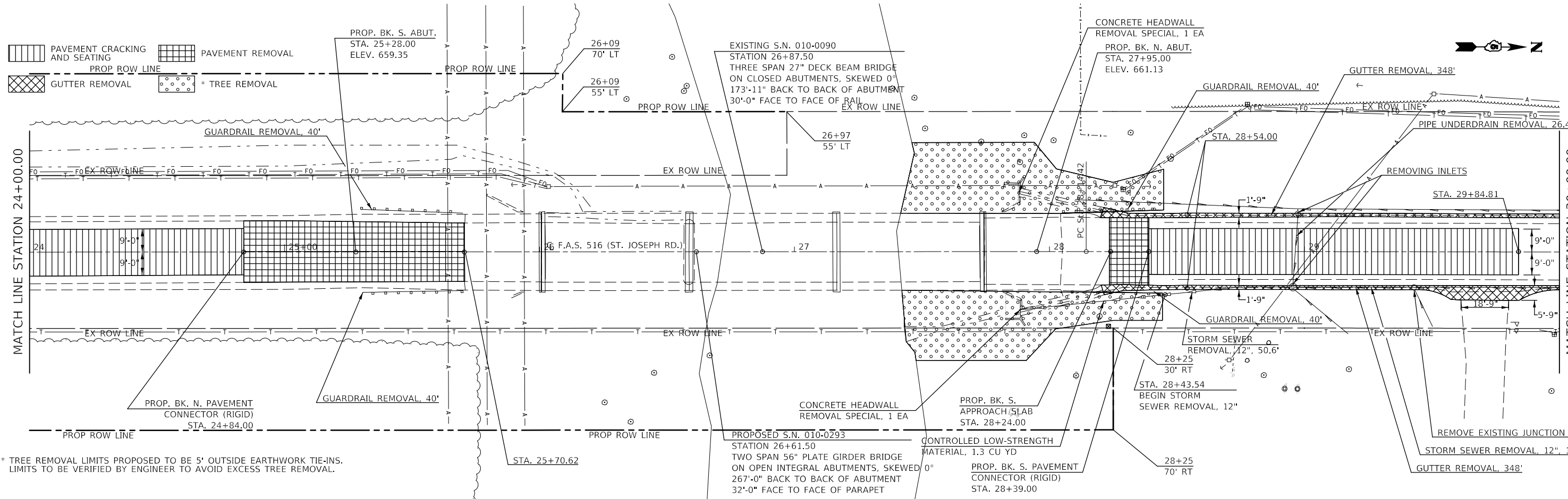
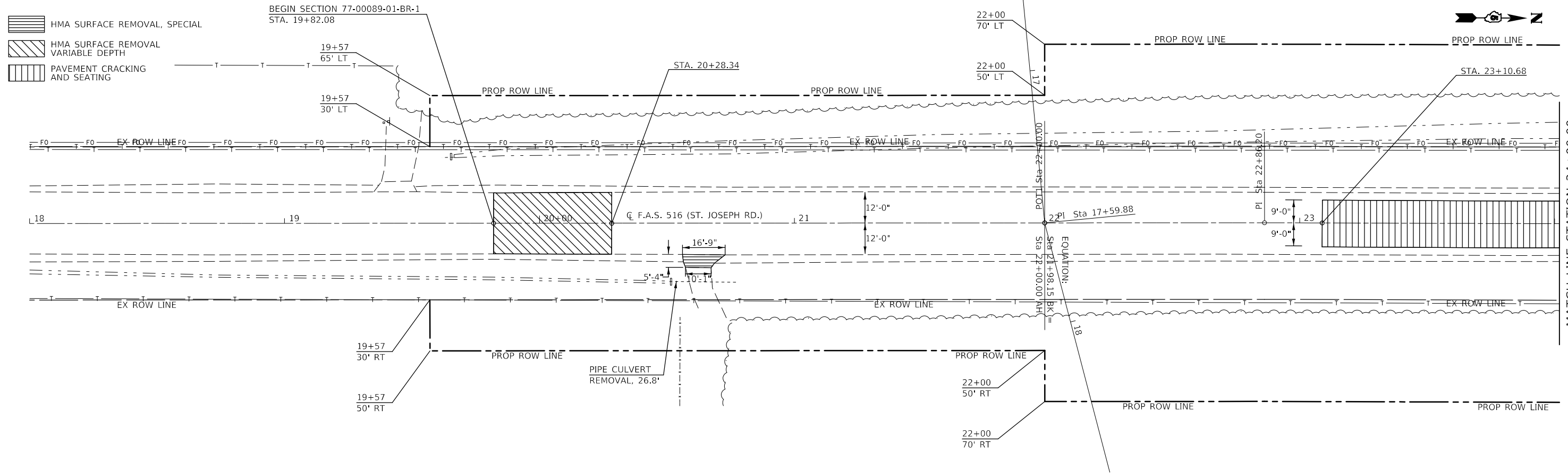
\*77-00089-01-BR-1

# CONTROL POINTS

CH 12 ALIGNMENT					
POINT	STATION	OFFSET	NORTHING	EASTING	DESC.
POT #1	6+27.11	0	1,224,149.6137	1,060,301.0609	MAG NAIL
STA EQ. (# 7)	21+98.15 BK = 22+00.00 AH	0	1,225,720.6340	1,060,924.0510	MAG NAIL
PI #3	22+86.20	0	1,225,806.8327	1,060,293.6664	IP
PC (CURVE 2)	28+14.42	0	1,226,335.0481	1,060,293.2813	MAG NAIL
PI #22	30+60.28	0	1,226,580.9110	1,060,293.1020	IP W/ CAP
PT (CURVE 2)	33+06.54	0	1,226,826.7668	1,060,294.9806	MAG NAIL

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	USER NAME = PiersonTJ	DESIGNED -	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CONTROL POINTS</b>			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED -					516	*	CHAMPAIGN	91	19
	PLOT SCALE = 40,0000 ' / in.	CHECKED -	REVISED -								CONTRACT NO. 70616	
	PLOT DATE = 8/5/2020	DATE -	REVISED -			SCALE:	SHEET 1	OF 1	SHEETS	STA.	TO STA.	ILLINOIS



\* TREE REMOVAL LIMITS PROPOSED TO BE 5' OUTSIDE EARTHWORK TIE-INS. LIMITS TO BE VERIFIED BY ENGINEER TO AVOID EXCESS TREE REMOVAL.

MODEL: s:\MODEL\MARIS FILE: MARIS\_Plan\Illinois\DOT\Documents\DOT\_Offices\Illinois\Projects\70616\RoadData\Design\70616-Sub-Plan\_Removal.dgn

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DRAWN -	REVISED -	REVISED -
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PLOT DATE = 8/5/2020	DATE -	REVISED -


**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

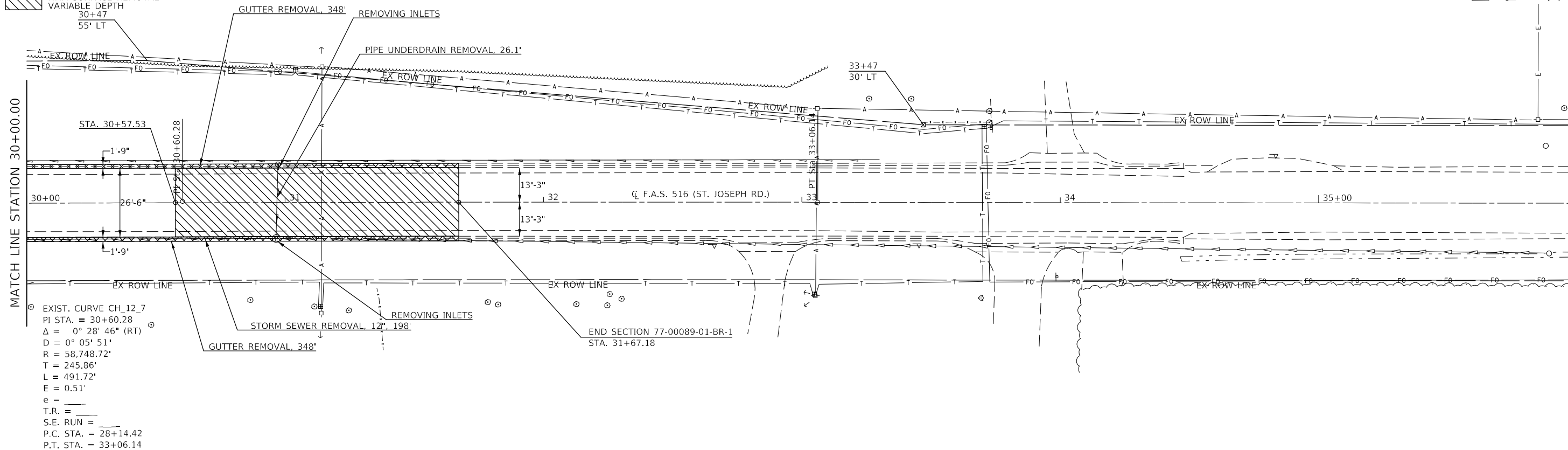
<b>C.H. 12 (ST. JOSEPH RD.) REMOVAL PLAN</b>			
SCALE: 1" = 20'	SHEET 1	OF 2 SHEETS	STA. 19+82.08 TO STA. 30+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	20
CONTRACT NO. 70616				
ILLINOIS FED. AID PROJECT				

\*77-00089-01-BR-1



 HMA SURFACE REMOVAL  
 VARIABLE DEPTH  
 30+47  
 55' LT



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USER NAME = PiersonTJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/5/2020	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**C.H. 12 (ST. JOSEPH RD.)**  
**REMOVAL PLAN**

SCALE: 1" = 20'     SHEET 2     OF 2     SHEETS     STA. 30+00.00     TO STA. 31+67.18

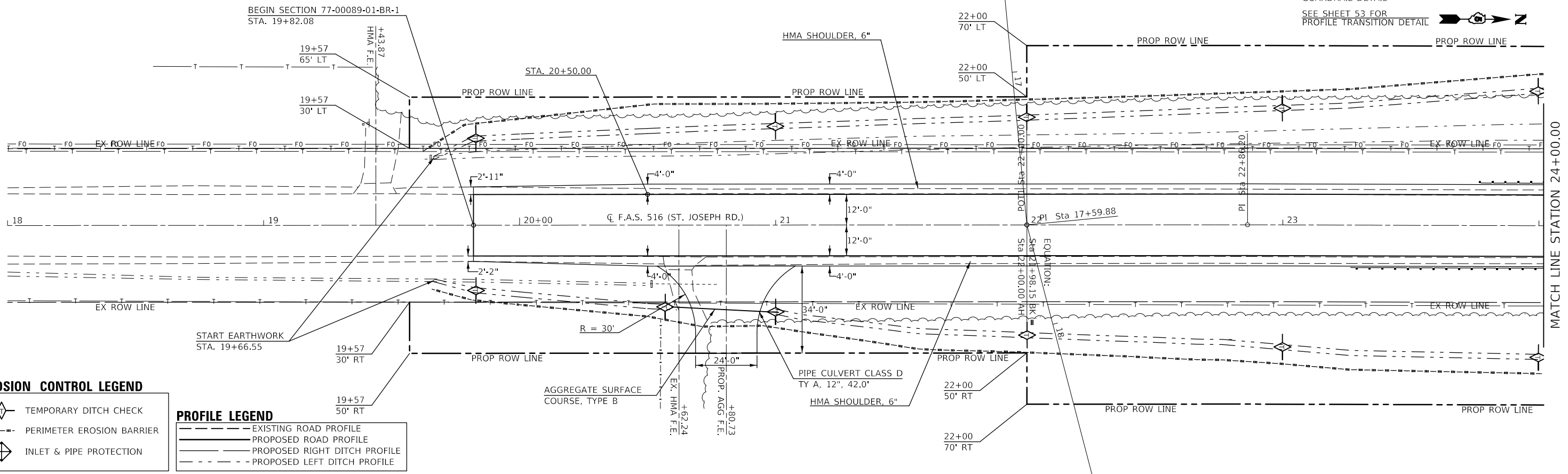
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	21
CONTRACT NO. 70616				
ILLINOIS FED. AID PROJECT				

SEE SHEET 54 AND 55 FOR  
GUARDRAIL DETAIL  
SEE SHEET 53 FOR  
PROFILE TRANSITION DETAIL



PLAN	SURVEYED	DATE
	PLOTTED	
	NOTE BOOK	
	NO.	
	CHECKED	
	FILE NAME	

PROFILE	SURVEYED	DATE
	GRADES CHECKED	
	NOTES	
	STRUCTURE	
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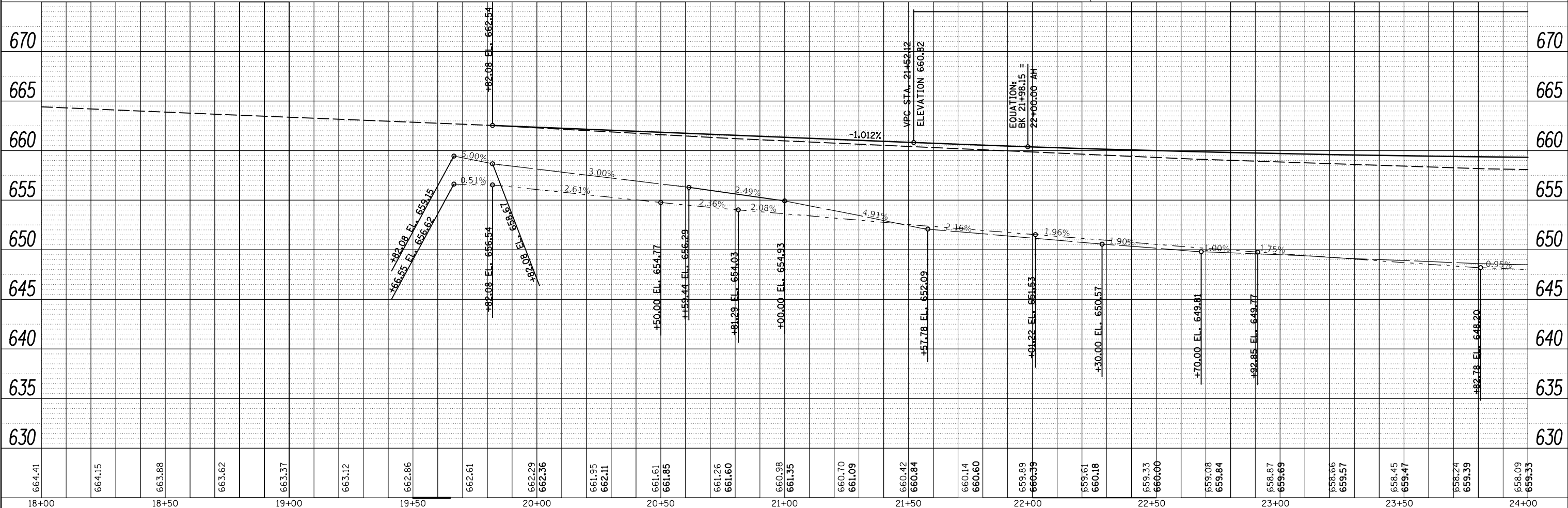


**EROSION CONTROL LEGEND**

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

**PROFILE LEGEND**

- EXISTING ROAD PROFILE
- PROPOSED ROAD PROFILE
- PROPOSED RIGHT DITCH PROFILE
- PROPOSED LEFT DITCH PROFILE

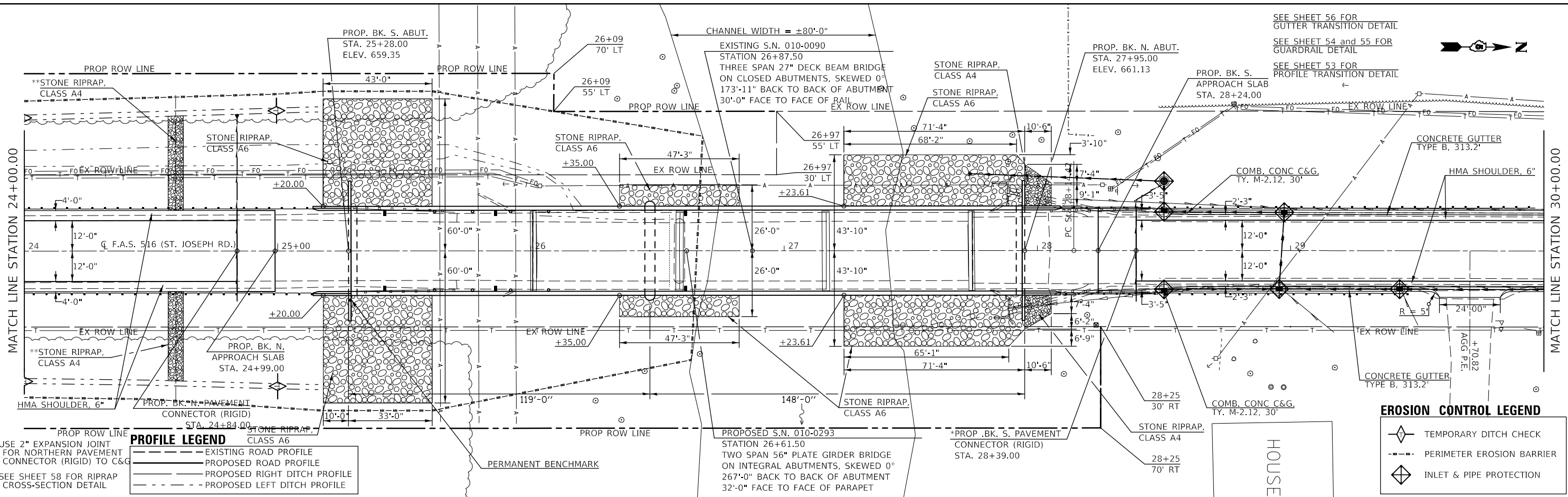


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MODELNAME =	PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -		516		CHAMPAIGN	91	22
	PLOT DATE = 8/5/2020	DATE -	REVISED -		CONTRACT NO. 70616				
					ILLINOIS FED. AID PROJECT				

SCALE: 1" = 20' SHEET 1 OF 3 SHEETS STA. 18+00.00 TO STA. 24+00.00

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

DATE	
BY	
PROFILE	
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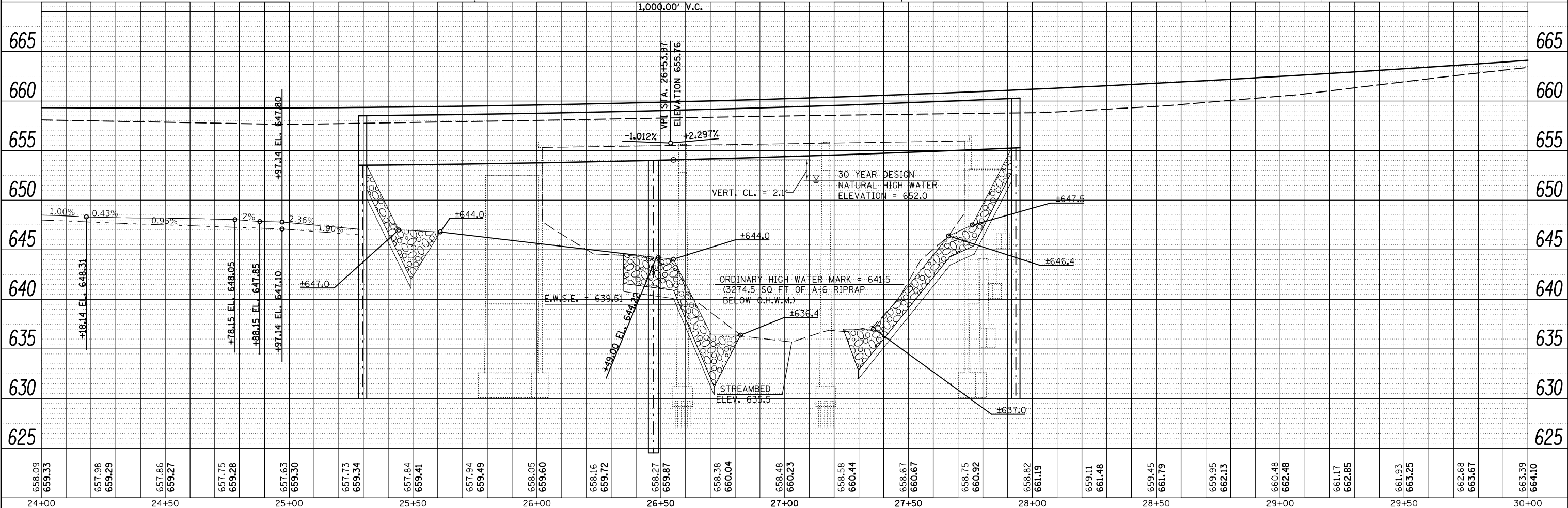


**PROFILE LEGEND**

- EXISTING ROAD PROFILE
- PROPOSED ROAD PROFILE
- PROPOSED RIGHT DITCH PROFILE
- PROPOSED LEFT DITCH PROFILE

**EROSION CONTROL LEGEND**

- ◆ TEMPORARY DITCH CHECK
- PERIMETER EROSION BARRIER
- ◆ INLET & PIPE PROTECTION



FILE NAME =	USER NAME = PiersonTJ	DESIGNED -	REVISED -
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	PLOT DATE = 8/5/2020	DATE -	REVISED -

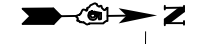
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

C.H. 12 (ST. JOSEPH RD.)  
PLAN AND PROFILE

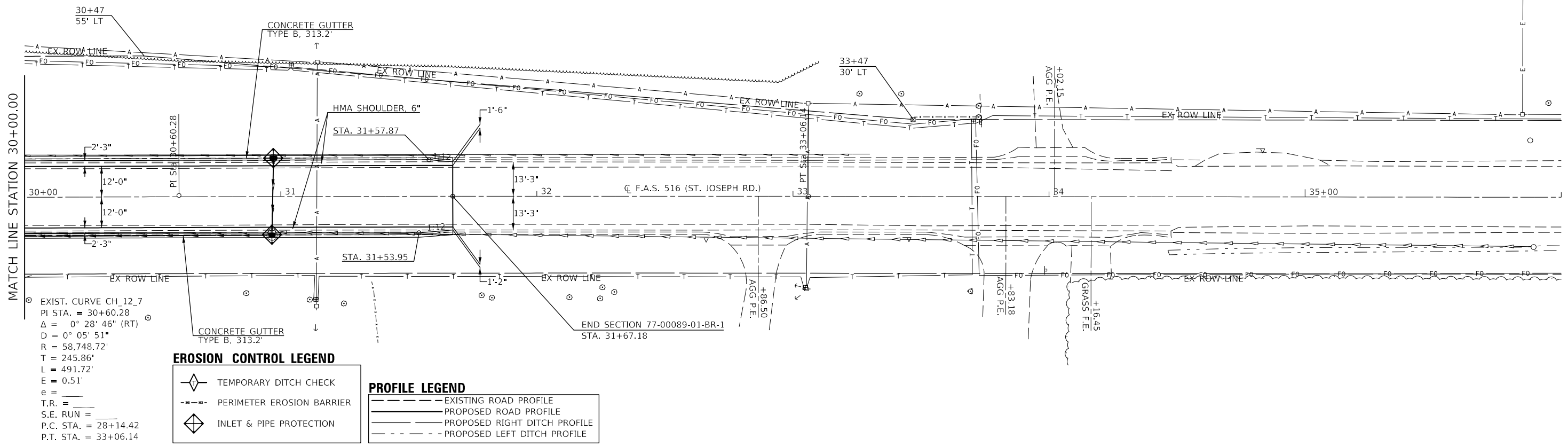
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516		CHAMPAIGN	91	23
CONTRACT NO. 70616			ILLINOIS FED. AID PROJECT	

SCALE: 1" = 20' SHEET 2 OF 3 SHEETS STA. 24+00.00 TO STA. 30+00.00

\*77-00089-01-BR-1



PLAN	SURVEYED	DATE
	PLOTTED	BY
	ALIGNED	
	CHECKED	
	FILED	
	NO.	



EXIST. CURVE CH\_12\_7  
 PI STA. = 30+60.28  
 $\Delta = 0^\circ 28' 46"$  (RT)  
 $D = 0^\circ 05' 51"$   
 $R = 58,748.72'$   
 $T = 245.86'$   
 $L = 491.72'$   
 $E = 0.51'$   
 $e =$   
 $T.R. =$   
 $S.E. RUN =$   
 $P.C. STA. = 28+14.42$   
 $P.T. STA. = 33+06.14$

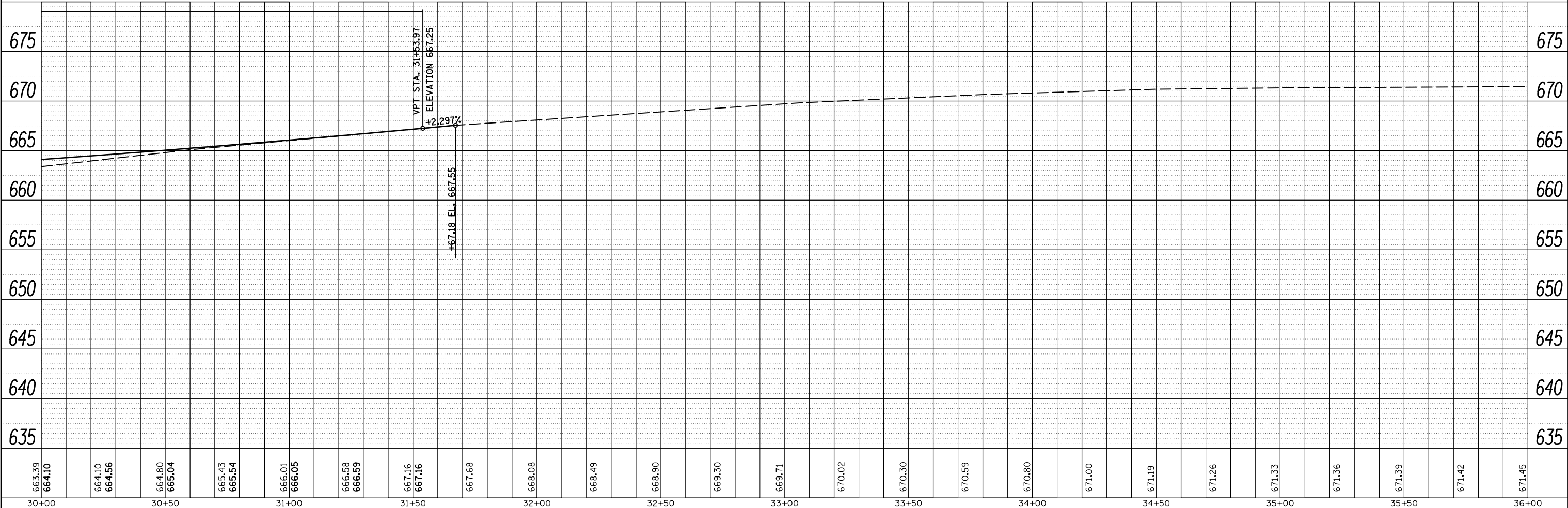
**EROSION CONTROL LEGEND**

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

**PROFILE LEGEND**

- EXISTING ROAD PROFILE
- PROPOSED ROAD PROFILE
- PROPOSED RIGHT DITCH PROFILE
- PROPOSED LEFT DITCH PROFILE

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



663.39	664.10	664.10	664.56	664.80	665.04	665.43	665.54	666.01	666.05	666.58	666.59	667.16	667.16	667.68	668.08	668.49	668.90	669.30	669.71	670.02	670.30	670.59	670.80	671.00	671.19	671.26	671.33	671.36	671.39	671.42	671.45		
30+00	30+50	31+00	31+50	32+00	32+50	33+00	33+50	34+00	34+50	35+00	35+50	36+00																					

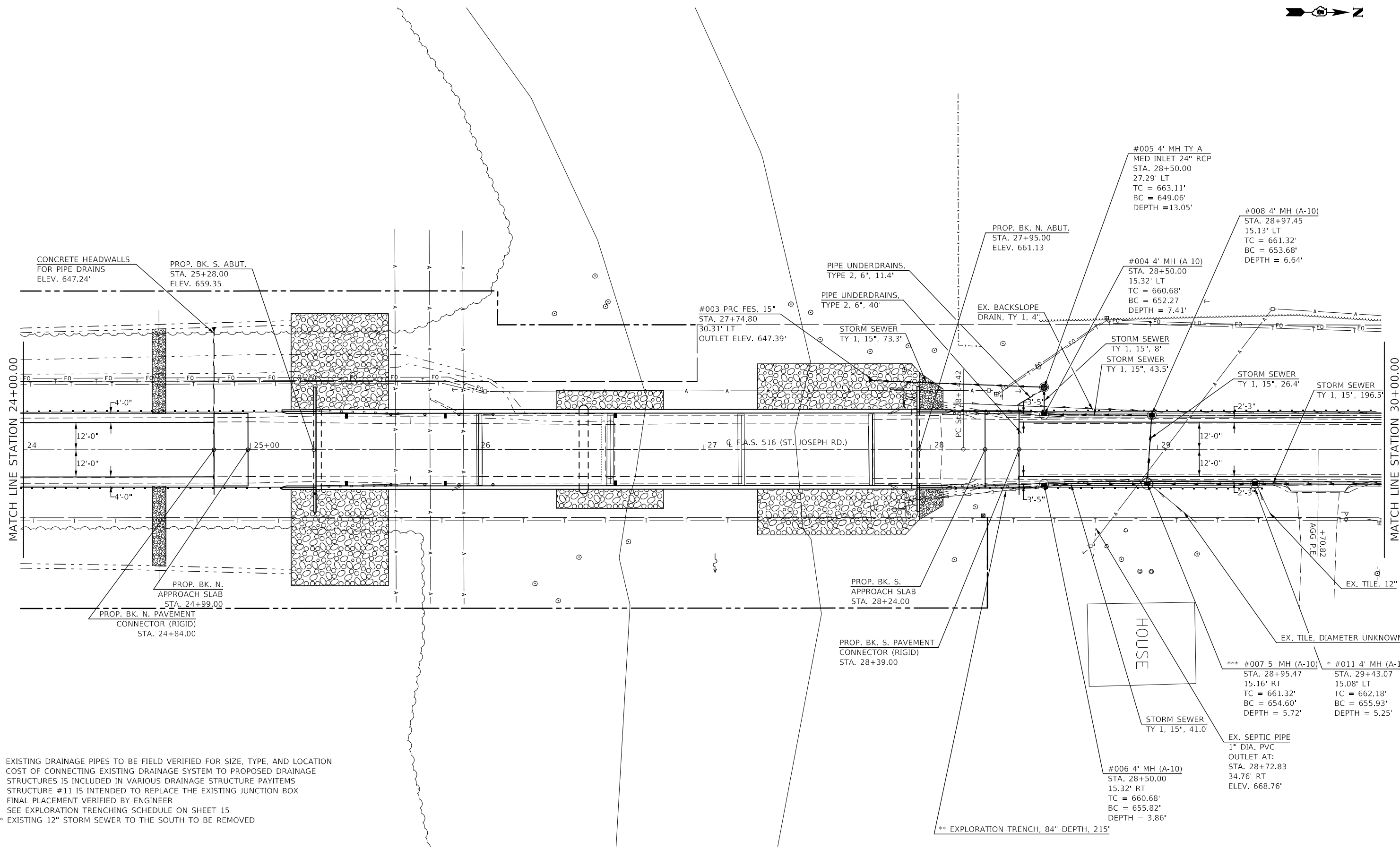
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

C.H. 12 (ST. JOSEPH RD.)  
PLAN AND PROFILE

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	•	CHAMPAIGN	91	24
CONTRACT NO. 70616				

SCALE: 1" = 20' SHEET 3 OF 3 SHEETS STA. 30+00.00 TO STA. 36+00.00





MODEL: \\MODEL\NAME  
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 PROJECT: \\path\to\project.dwg  
 OFFICE: \\path\to\office.dwg  
 DESIGNED: \\path\to\designed.dwg  
 DRAWN: \\path\to\drawn.dwg  
 CHECKED: \\path\to\checked.dwg  
 DATE: \\path\to\date.dwg

- EXISTING DRAINAGE PIPES TO BE FIELD VERIFIED FOR SIZE, TYPE, AND LOCATION
- COST OF CONNECTING EXISTING DRAINAGE SYSTEM TO PROPOSED DRAINAGE STRUCTURES IS INCLUDED IN VARIOUS DRAINAGE STRUCTURE PAYITEMS
- \* STRUCTURE #11 IS INTENDED TO REPLACE THE EXISTING JUNCTION BOX
- FINAL PLACEMENT VERIFIED BY ENGINEER
- \*\* SEE EXPLORATION TRENCHING SCHEDULE ON SHEET 15
- \*\*\* EXISTING 12" STORM SEWER TO THE SOUTH TO BE REMOVED

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**C.H. 12 (ST. JOSEPH RD.)**  
**DRAINAGE PLAN**

SCALE: 1" = 20'    SHEET 1 OF 4 SHEETS    STA. 24+00.00 TO STA. 30+00.00

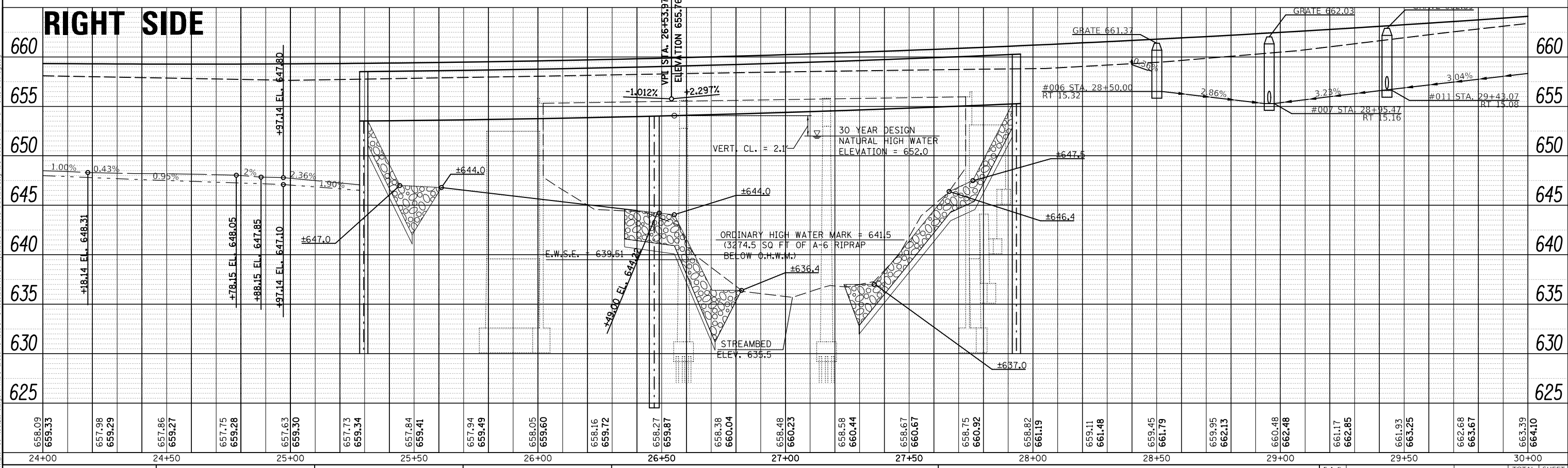
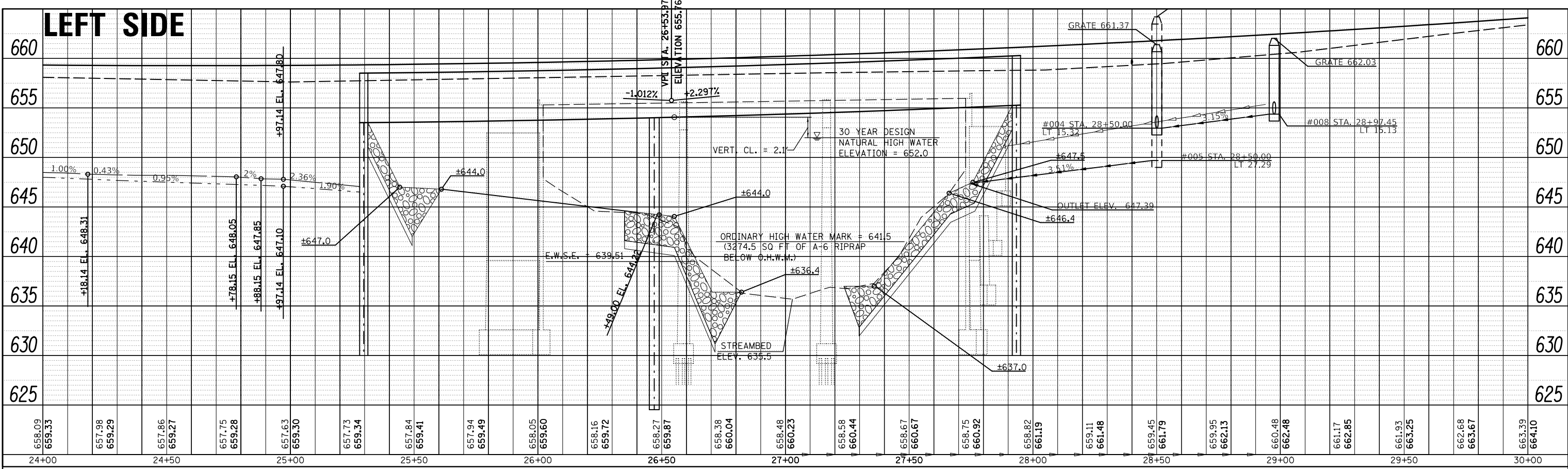
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	25
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70616	

\*77-00089-01-BR-1

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

PROFILE	SURVEYED	DATE
	PLOTTED	BY
	GRADES	CHECKED
	STRUCTURE	NOTATION
	NO.	

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USER NAME	= PiersonTJ
DESIGNED	-
DRAWN	-
CHECKED	-
DATE	-

REVISIONS	-
REVISIONS	-
REVISIONS	-
REVISIONS	-

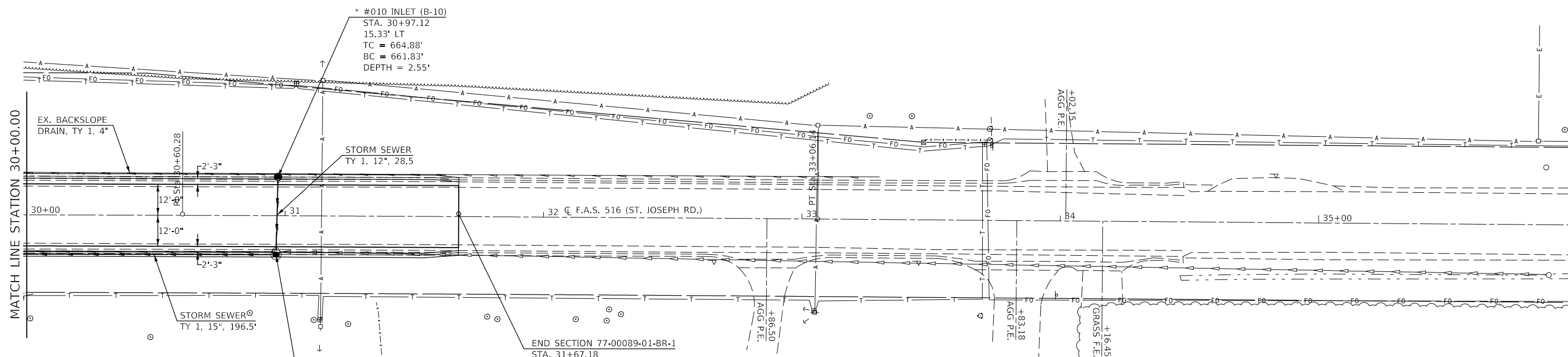
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**C.H. 12 (ST. JOSEPH RD.)  
DRAINAGE PROFILE**

SCALE: 1" = 20'    SHEET 2    OF 4    SHEETS    STA. 24+00.00    TO STA. 30+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	26
CONTRACT NO. 70616			ILLINOIS FED. AID PROJECT	

\*77-00089-01-BR-1



EXIST. CURVE CH\_12\_7  
 PI STA. = 30+60.28  
 $\Delta = 0^\circ 28' 46''$  (RT)  
 $D = 0^\circ 05' 51''$   
 $R = 58,748.72'$   
 $T = 245.86'$   
 $L = 491.72'$   
 $E = 0.51'$   
 $e =$   
 $T.R. =$   
 $S.E. RUN =$   
 $P.C. STA. = 28+14.42$   
 $P.T. STA. = 33+06.14$

#009 4' MH (A-10)  
 STA. 30+96.51  
 15.16' RT  
 $TC = 664.88'$   
 $BC = 660.47'$   
 $DEPTH = 3.41'$

\* #010 INLET (B-10)  
 STA. 30+97.12  
 15.33' LT  
 $TC = 664.88'$   
 $BC = 661.83'$   
 $DEPTH = 2.55'$

END SECTION 77-00089-01-BR-1  
 STA. 31+67.18

MODEL: \\MODEL\NAME  
 FILE: \\NAME: \\path\to\file.dwg  
 PROJECT: \\PROJECT  
 OFFICE: \\OFFICE  
 DATE: 8/5/2020

- EXISTING DRAINAGE PIPES TO BE FIELD VERIFIED FOR SIZE, TYPE, AND LOCATION
- COST OF CONNECTING EXISTING DRAINAGE SYSTEM TO PROPOSED DRAINAGE STRUCTURES IS INCLUDED IN VARIOUS DRAINAGE STRUCTURE PAYITEMS
- \* STR. #010 MAY BE IN CONFLICT WITH EXISTING BACKSLOPE DRAIN.  
 IF THE DRAIN IS FOUND TO BE IN CONFLICT IT SHALL BE CONNECTED TO STR. #010.

USER NAME = PiersonTJ	DESIGNED -	REVISED -
PLOT SCALE = 40,0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 8/5/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**C.H. 12 (ST. JOSEPH RD.)  
 DRAINAGE PLAN**

SCALE: 1" = 20'    SHEET 3 OF 4 SHEETS    STA. 30+00.00 TO STA. 36+00.00

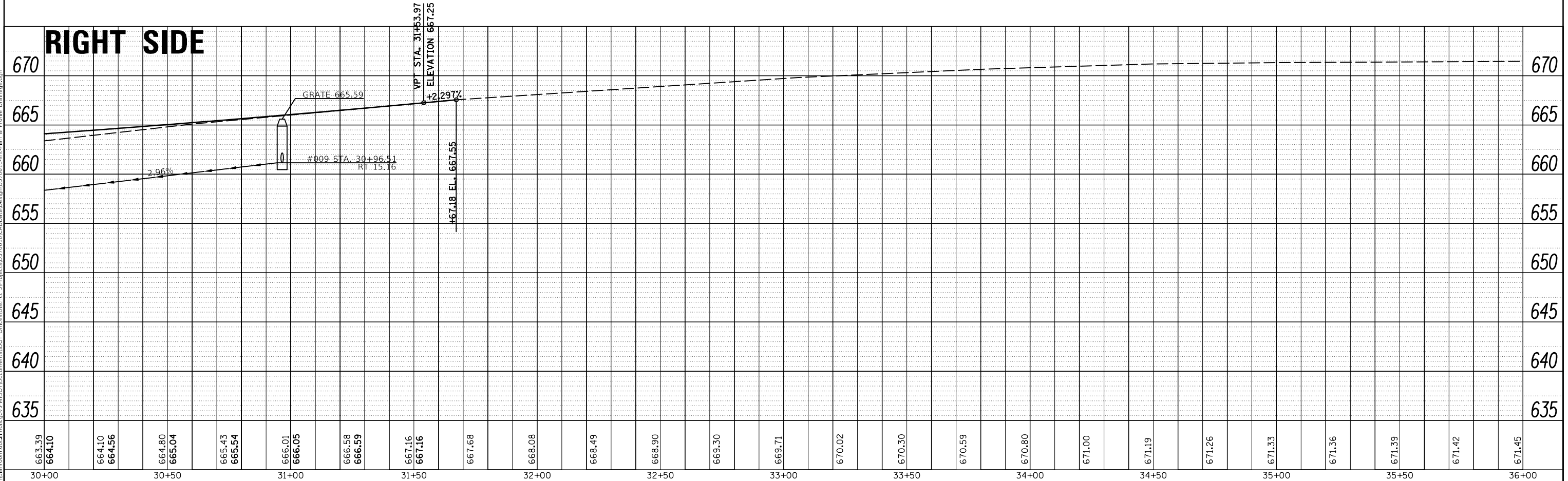
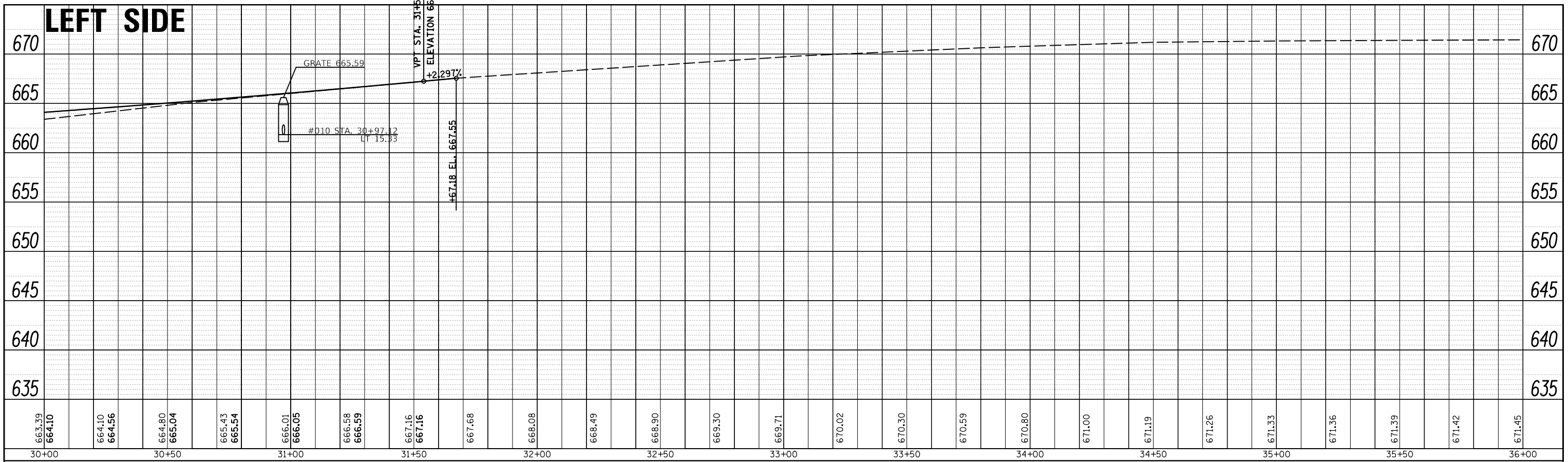
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	27
CONTRACT NO. 70616				
ILLINOIS FED. AID PROJECT				

\*77-00089-01-BR-1

PLAN	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK NO.	ALIGNMENT CHECKED		
	CADD FILE NAME		

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

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USER NAME = PiersonTJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 40,000.00' / in.	CHECKED -	REVISED -
PLOT DATE = 8/5/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**C.H. 12 (ST. JOSEPH RD.)  
DRAINAGE PROFILE**

SCALE: 1" = 20'    SHEET 4 OF 4 SHEETS    STA. 30+00.00 TO STA. 36+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	28
			CONTRACT NO. 70616	

ILLINOIS FED. AID PROJECT

\*77-00089-01-BR-1

Bench Mark: Chiseled "□" Top of Northwest Wingwall of Structure 010-0090. Elevation 657.16.

Existing Structure: S.N. 010-0090 was originally built in 1914 as SA12, Section 89-15D and reconstructed in 1979 as F.A.S. Rte. 516, Section 77-00089-01-BR. The existing structure consists of three simple spans of PPC deck beams supported by closed abutments on spread footings and solid wall piers on timber piles. Bk. to Bk. of Abutment length measures 173'-11" and out-to-out deck width measures 30'-0". Structure to be removed and replaced. Traffic to be detoured during construction.

No Salvage

**INDEX OF SHEETS**

- 1 - General Plan & Elevation
- 2 - General Data
- 3 - Foundation Plan
- 4-5 - Top of Slab Elevations
- 6-7 - Top of Approach Slab Elevations
- 8 - Superstructure
- 9 - Superstructure Details
- 10 - Drainage Scupper, DS-11
- 11 - Integral Diaphragm Details
- 12-14 - Precast Bridge Approach Slab
- 15 - Framing Plan
- 16 - Structural Steel Details
- 17 - Bearing Details
- 18 - South Abutment Details
- 19 - North Abutment Details
- 20 - Pier 1 Details
- 21 - Pile Splicing Details
- 22-24 - Boring Data

**LOADING HL-93**

Allow 50#/sq. ft. for future wearing surface.

**DESIGN SPECIFICATIONS**

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition

**DESIGN STRESSES**

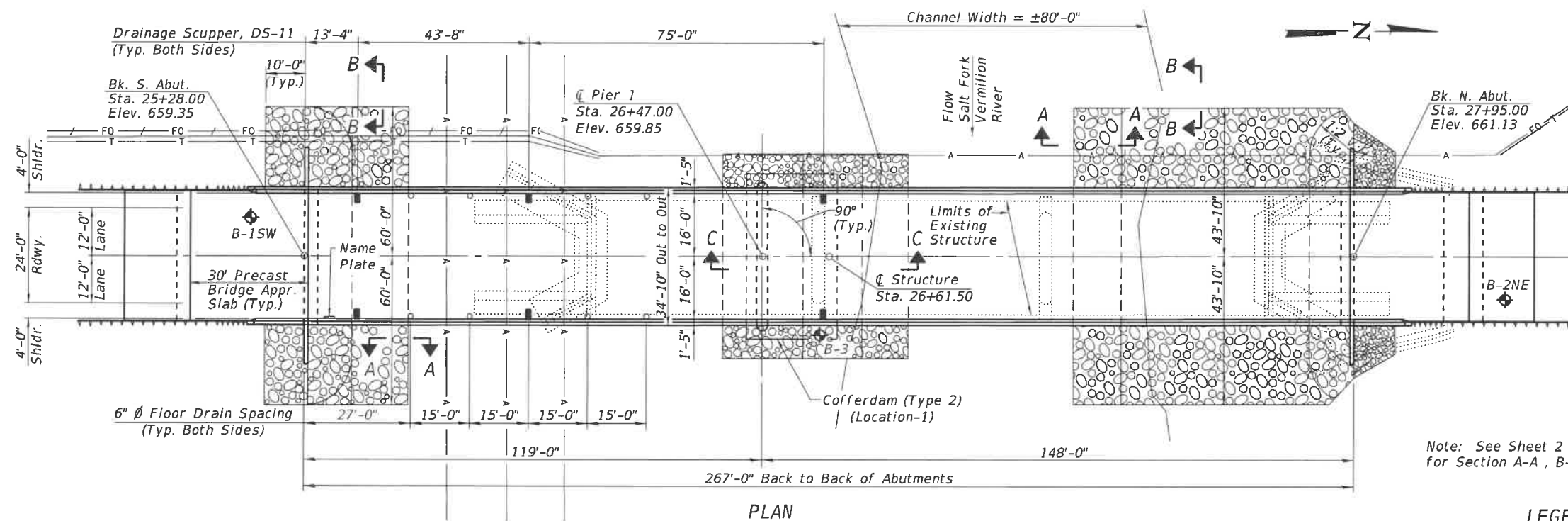
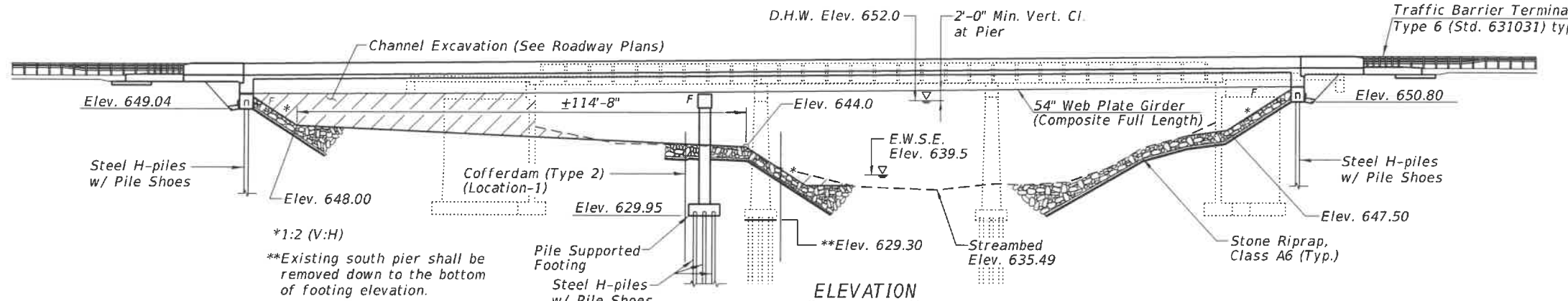
**FIELD UNITS**

- $f'_c = 3,500$  psi
- $f'_c = 4,000$  psi (Superstructure Concrete)
- $f_y = 50,000$  psi (AASHTO M 270 Grade 50W)
- $f_y = 60,000$  psi (Reinforcement)

**SEISMIC DATA**

- Seismic Performance Zone (SPZ) = 1
- Design Spectral Acceleration at 1.0 sec. ( $S_{D1}$ ) = 0.139
- Design Spectral Acceleration at 0.2 sec. ( $S_{D5}$ ) = 0.246
- Soil Site Class = D

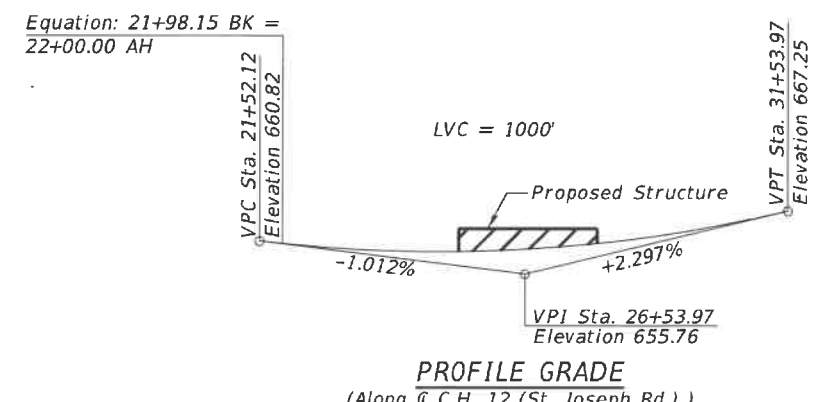
**LOCATION SKETCH**



Note: See Sheet 2 of 24 for Section A-A, B-B & C-C.

**LEGEND**

- Stone Riprap, Class A4
- Stone Riprap, Class A6



STATION 26+61.50  
BUILT BY  
STATE OF ILLINOIS  
F.A.S. 516  
SEC. 77-00089-01-BR-1  
LOADING HL-93  
STRUCTURE NO. 010-0293

**NAME PLATE**  
See Std. 515001

**GENERAL PLAN & ELEVATION**  
C.H. 12 (ST. JOSEPH RD.) OVER SALT FORK VERMILION RIVER  
F.A.S. 516 - SEC. 77-00089-01-BR-1  
CHAMPAIGN COUNTY  
STATION 26+61.50  
STRUCTURE NO. 010-0293

APPROVED  
For Structural Adequacy Only  
*Benjamin Bover*  
Engineer of Bridges & Structures

**BENJAMIN BOVER**  
081-007230  
LICENSED  
STRUCTURAL  
ENGINEER  
STATE OF ILLINOIS

SIGNED: *Benjamin Bover*  
DATE: 8/30/2019  
ILLINOIS STRUCTURAL ENGINEER  
NO. 081-007230  
LICENSE EXPIRES: 11-30-2020

MODEL: Default  
FILE NAME: P:\18-1038.04 St. Joseph Road over Salt Fork River\Structures\0100293-70616-01-GPE.dgn  
8/30/2019 9:03:00 AM

 200 E. Main St., Suite 200 Edwardsville, Illinois 62025 618.237.1100 www.kaskaskia.com	USER NAME = PLOT SCALE = PLOT DATE =	DESIGNED - MC CHECKED - BB DRAWN - RJO CHECKED - BB	REVISED - REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL PLAN & ELEVATION STRUCTURE NO. 010-0293 SHEET 1 OF 24 SHEETS	F.A.S. RTE. 516 SECTION 77-00089-01-BR-1 COUNTY CHAMPAIGN TOTAL SHEETS 91 SHEET NO. 29 CONTRACT NO. 70616
	ILLINOIS FED. AID PROJECT					

**GENERAL NOTES**

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts (in painted areas and ASTM A325 Type 3 in unpainted areas). Bolts 7/8 in. Ø, holes 1 1/16 in. Ø, unless otherwise noted.

All structural steel shall be AASHTO M 270 Grade 50 W.

Reinforcement bars designated (E) shall be epoxy coated.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

Calculated weight of Structural Steel = 445,340 pounds M270 Grade 50 W. No field welding is permitted except as specified in the contract documents.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.

Structural steel shall only be painted for a distance equal to the depth of embedment into the concrete cap plus 18 inches. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.

Seal coat thickness is based on the Estimated Water Surface Elevation (EWSE). Cofferdam design details and proposed changes in seal coat thickness shall be submitted to the Engineer for approval with the cofferdam design.

Slipforming of the parapets is not allowed.

SN 010-0090 has been determined on the basis of information available in the District Office not to involve asbestos in the bituminous bridge deck wearing surface or waterproofing membrane as certified with BBS form 2536 dated May 31, 2002.

The embankment configuration shown shall be the minimum that must be placed and compacted prior to construction of the abutments.

**DESIGN SCOUR ELEVATION TABLE**

Event/Limit State	Design Scour Elevations (ft.)			Item 113
	S. Abut.	Pier	N. Abut.	
Q100	649.04	627.24	650.80	5
Q200	649.04	626.24	650.80	
Design	649.04	627.24	650.80	
Check	649.04	626.24	650.80	

**WATERWAY INFORMATION**

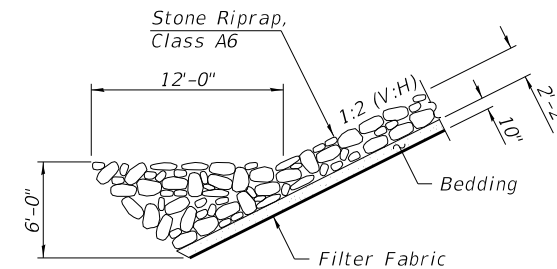
Existing Low Grade Elev. = 657.63 @ Sta. 25+03.19  
 Drainage Area = 298.00 mi.<sup>2</sup> Proposed Low Grade Elev. = 659.27 @ Sta. 24+50

Flood	Freq. Yr.	Q Ft. <sup>3</sup> /s	Opening Sq. Ft.		Nat. H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	10	7510	1513	1782	650.2	0.3	0.2	650.5	650.4	
Base	30	10,328	1810	2219	652.0	0.4	0.3	652.4	652.3	
Scour Design Check	100	13,601	2073	2618	653.6	0.6	0.4	654.2	654.0	
Max. Calc.	200	15,709	2222	2743	654.5	0.7	0.5	655.2	655.0	
	500	18,496	2376	2768	655.6	1.6	0.6	657.2	656.2	

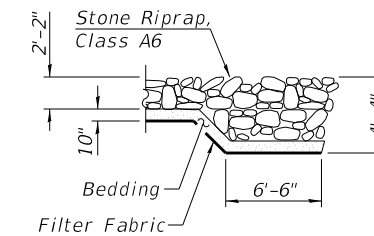
10 Year Velocity Through Existing Bridge = 4.93 ft/s  
 10 Year Velocity Through Proposed Bridge = 4.17 ft/s

**TOTAL BILL OF MATERIAL**

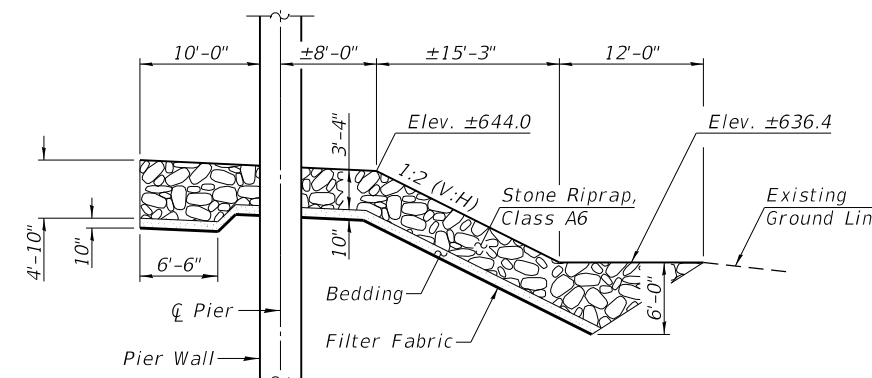
ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.	34		34
Stone Riprap, Class A6	Sq. Yd.	1,278		1,278
Filter Fabric	Sq. Yd.	1,312		1,312
Removal of Existing Structures	Each	1		1
Structure Excavation	Cu. Yd.		387	387
Cofferdam Excavation	Cu. Yd.		685.1	685.1
Cofferdam (Type 2) (Location - 1)	Each	1		1
Floor Drains	Each	8		8
Concrete Structures	Cu. Yd.	20.4	180.7	201.1
Concrete Superstructure	Cu. Yd.	366.2		366.2
Bridge Deck Grooving	Sq. Yd.	1,085		1,085
Seal Coat Concrete	Cu. Yd.	140.5		140.5
Protective Coat	Sq. Yd.	1,432		1,432
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	2,844		2,844
Reinforcement Bars, Epoxy Coated	Pound	91,840	26,810	118,650
Furnishing Steel Piles HP 12 X 74	Foot		1,815	1,815
Driving Piles	Foot		1,815	1,815
Test Pile Steel HP 12 X 74	Each		3	3
Pile Shoes	Each		33	33
Name Plates	Each	1		1
Preformed Joint Strip Seal	Foot	66.0		66.0
Anchor Bolts, 1"	Each	24		24
Anchor Bolts, 1 1/2"	Each	12		12
Geocomposite Wall Drain	Sq. Yd.	68.9		68.9
Concrete Wearing Surface, 5"	Sq. Yd.	214		214
Precast Bridge Approach Slab	Sq. Ft.	1,930		1,930
Granular Backfill for Structures	Cu. Yd.		154	154
Drainage Scupper, DS-11	Each	6		6
Pipe Underdrains for Structures, 4"	Foot	154		154
Asbestos Bearing Pad Removal	Each	60		60



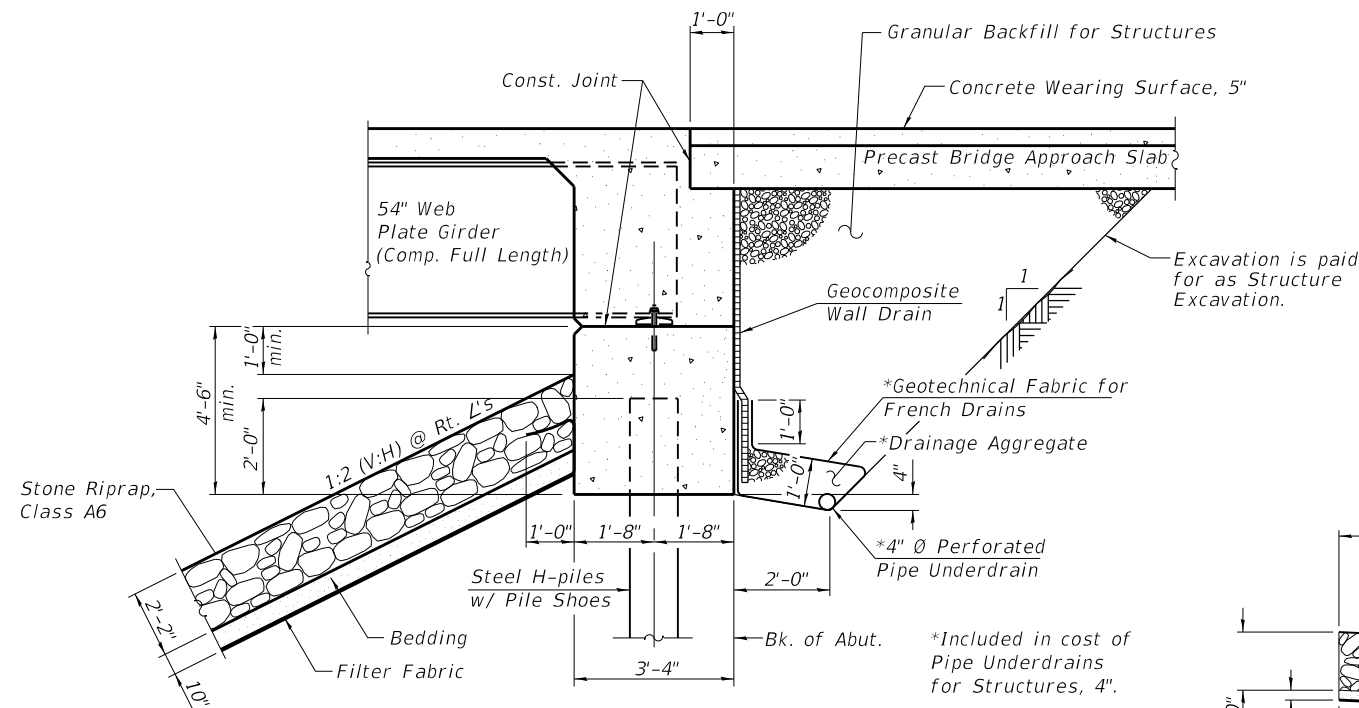
**SECTION A-A**



**SECTION B-B**

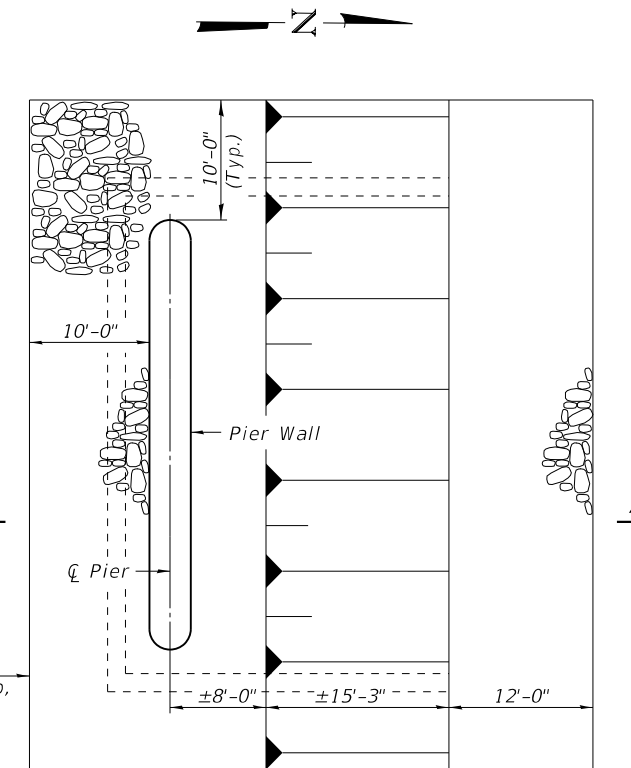


**SECTION C-C**



**SECTION THRU ABUTMENT**  
(Horiz. Dim. @ Rt. L's)

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



**PLAN - PIER RIPRAP PROTECTION DETAIL**

MODEL: Default  
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CHECKED - BB	CHECKED - BB	REVISED -
DRAWN - RJO	DRAWN - RJO	REVISED -
CHECKED - BB	CHECKED - BB	REVISED -

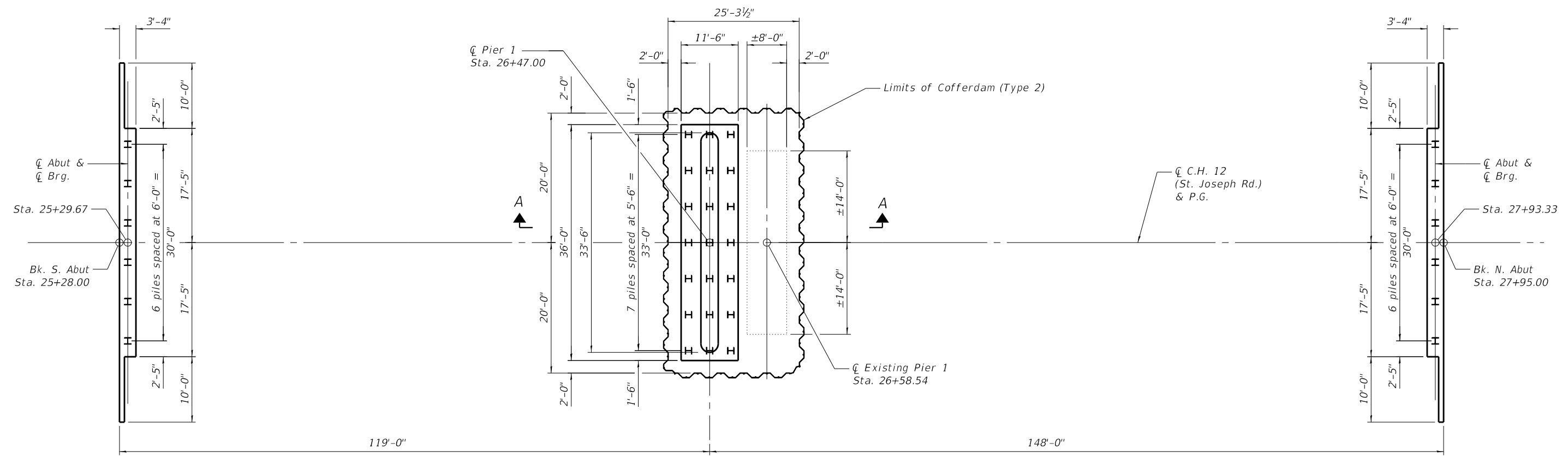
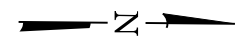
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**GENERAL DATA**  
**STRUCTURE NO. 010-0293**

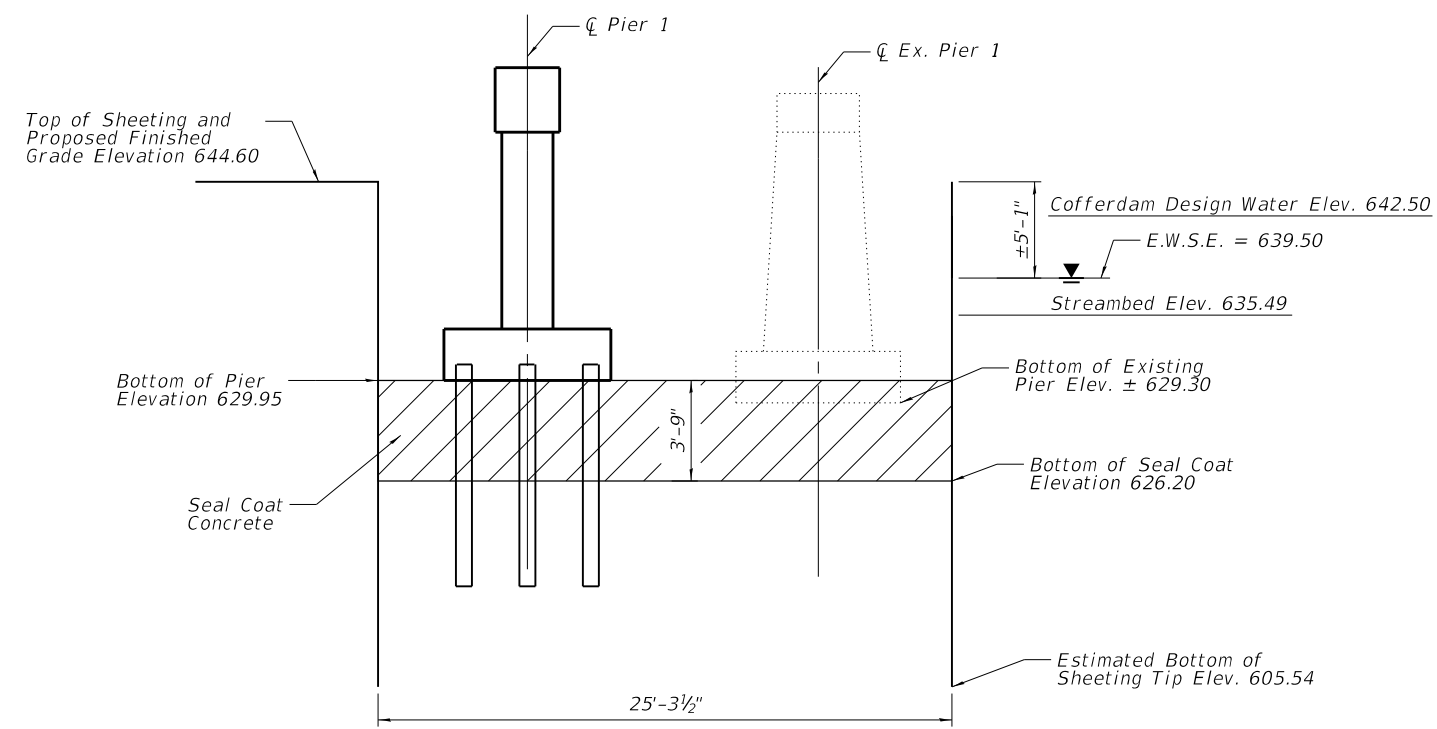
SHEET 2 OF 24 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	77-00089-01-BR-1	CHAMPAIGN	91	30
CONTRACT NO. 70616				

ILLINOIS FED. AID PROJECT



**FOUNDATION PLAN**



**SECTION A-A**

(Showing Cofferdam Information)  
 Sheet Piling for the cofferdam construction may encounter hard driving at elevation ±621.00. See Boring Data.

Note:  
 Existing pier to be removed prior to constructing seal coat.

MODEL: Default  
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	CHECKED - BB	REVISED -
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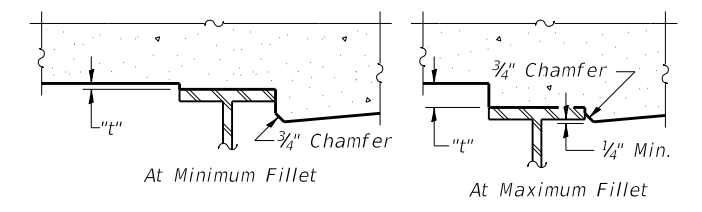
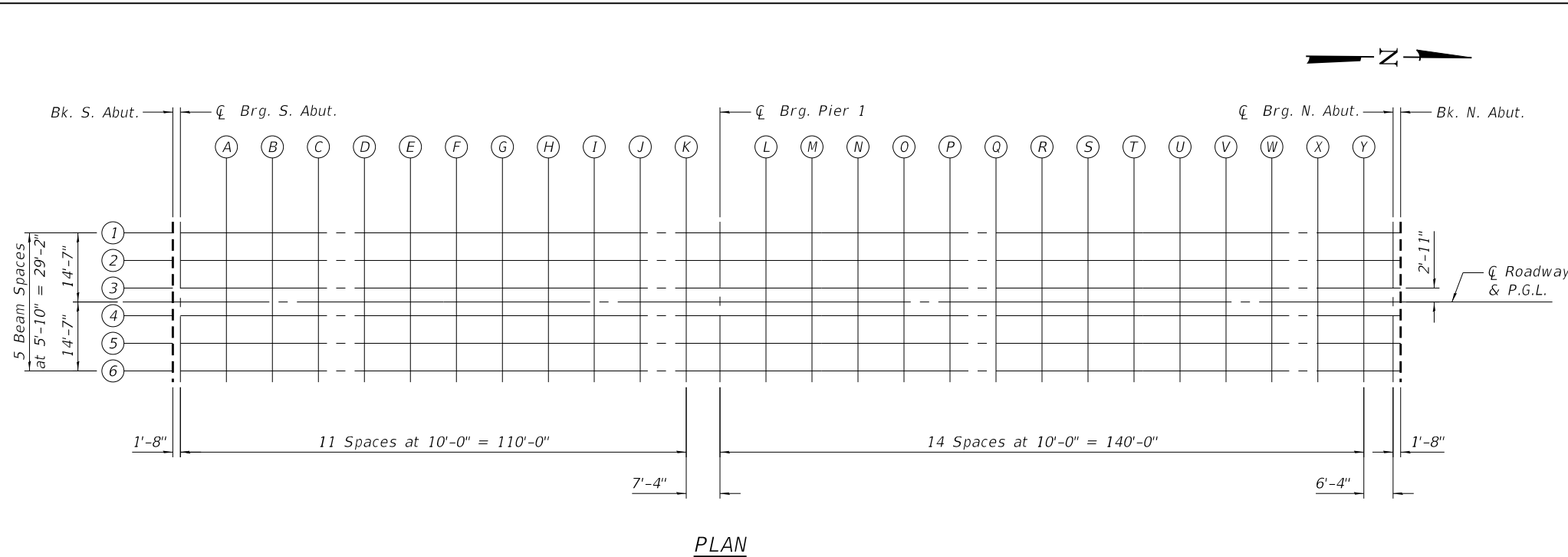
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**FOUNDATION PLAN  
 STRUCTURE NO. 010-0293**

SHEET 3 OF 24 SHEETS

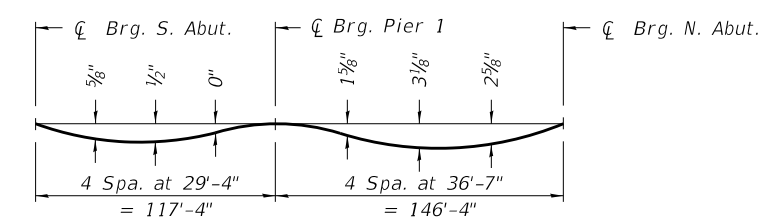
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	77-00089-01-BR-1	CHAMPAIGN	91	31
CONTRACT NO. 70616				

ILLINOIS FED. AID PROJECT



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown on sheets 4 and 5 of 24. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheets 4 and 5 of 24, minus slab thickness, equals the fillet heights "t" above top flange of beams.

**FILLET HEIGHTS**



**DEAD LOAD DEFLECTION DIAGRAM**

(Includes weight of concrete only.)

Note:  
 The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheets 4 and 5 of 24.

GIRDER 1				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	25+28.00	-14.58	659.12	659.12
Ctr. Brg. S. Abut.	25+29.67	-14.58	659.12	659.12
A	25+39.67	-14.58	659.15	659.18
B	25+49.67	-14.58	659.17	659.23
C	25+59.67	-14.58	659.21	659.27
D	25+69.67	-14.58	659.24	659.31
E	25+79.67	-14.58	659.28	659.35
F	25+89.67	-14.58	659.32	659.37
G	25+99.67	-14.58	659.36	659.40
H	26+09.67	-14.58	659.41	659.43
I	26+19.67	-14.58	659.46	659.46
J	26+29.67	-14.58	659.52	659.51
K	26+39.67	-14.58	659.58	659.56
Ctr. Brg. Pier 1	26+47.00	-14.58	659.62	659.62
L	26+57.00	-14.58	659.68	659.72
M	26+67.00	-14.58	659.75	659.84
N	26+77.00	-14.58	659.82	659.96
O	26+87.00	-14.58	659.89	660.10
P	26+97.00	-14.58	659.97	660.24
Q	27+07.00	-14.58	660.05	660.37
R	27+17.00	-14.58	660.14	660.49
S	27+27.00	-14.58	660.22	660.59
T	27+37.00	-14.58	660.31	660.68
U	27+47.00	-14.58	660.41	660.75
V	27+57.00	-14.58	660.50	660.80
W	27+67.00	-14.58	660.60	660.83
X	27+77.00	-14.58	660.71	660.86
Y	27+87.00	-14.58	660.81	660.87
Ctr. Brg. N. Abut.	27+93.33	-14.58	660.88	660.88
Bk. N. Abut.	27+95.00	-14.58	660.90	660.90

GIRDER 2				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	25+28.00	-8.75	659.22	659.22
Ctr. Brg. S. Abut.	25+29.67	-8.75	659.22	659.22
A	25+39.67	-8.75	659.25	659.28
B	25+49.67	-8.75	659.27	659.33
C	25+59.67	-8.75	659.31	659.37
D	25+69.67	-8.75	659.34	659.41
E	25+79.67	-8.75	659.38	659.45
F	25+89.67	-8.75	659.42	659.47
G	25+99.67	-8.75	659.46	659.50
H	26+09.67	-8.75	659.51	659.53
I	26+19.67	-8.75	659.56	659.56
J	26+29.67	-8.75	659.62	659.61
K	26+39.67	-8.75	659.68	659.67
Ctr. Brg. Pier 1	26+47.00	-8.75	659.72	659.72
L	26+57.00	-8.75	659.78	659.82
M	26+67.00	-8.75	659.85	659.94
N	26+77.00	-8.75	659.92	660.06
O	26+87.00	-8.75	660.00	660.20
P	26+97.00	-8.75	660.07	660.34
Q	27+07.00	-8.75	660.15	660.47
R	27+17.00	-8.75	660.24	660.59
S	27+27.00	-8.75	660.32	660.69
T	27+37.00	-8.75	660.41	660.78
U	27+47.00	-8.75	660.51	660.85
V	27+57.00	-8.75	660.60	660.90
W	27+67.00	-8.75	660.70	660.94
X	27+77.00	-8.75	660.81	660.96
Y	27+87.00	-8.75	660.91	660.97
Ctr. Brg. N. Abut.	27+93.33	-8.75	660.98	660.98
Bk. N. Abut.	27+95.00	-8.75	661.00	661.00

GIRDER 3				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	25+28.00	-2.92	659.31	659.31
Ctr. Brg. S. Abut.	25+29.67	-2.92	659.31	659.31
A	25+39.67	-2.92	659.33	659.36
B	25+49.67	-2.92	659.36	659.42
C	25+59.67	-2.92	659.39	659.46
D	25+69.67	-2.92	659.43	659.50
E	25+79.67	-2.92	659.47	659.53
F	25+89.67	-2.92	659.51	659.56
G	25+99.67	-2.92	659.55	659.59
H	26+09.67	-2.92	659.60	659.61
I	26+19.67	-2.92	659.65	659.65
J	26+29.67	-2.92	659.71	659.69
K	26+39.67	-2.92	659.76	659.75
Ctr. Brg. Pier 1	26+47.00	-2.92	659.81	659.81
L	26+57.00	-2.92	659.87	659.91
M	26+67.00	-2.92	659.94	660.02
N	26+77.00	-2.92	660.01	660.15
O	26+87.00	-2.92	660.08	660.29
P	26+97.00	-2.92	660.16	660.42
Q	27+07.00	-2.92	660.24	660.55
R	27+17.00	-2.92	660.32	660.67
S	27+27.00	-2.92	660.41	660.78
T	27+37.00	-2.92	660.50	660.87
U	27+47.00	-2.92	660.59	660.94
V	27+57.00	-2.92	660.69	660.99
W	27+67.00	-2.92	660.79	661.02
X	27+77.00	-2.92	660.89	661.05
Y	27+87.00	-2.92	661.00	661.06
Ctr. Brg. N. Abut.	27+93.33	-2.92	661.07	661.07
Bk. N. Abut.	27+95.00	-2.92	661.09	661.09

CENTERLINE OF ROADWAY & P.G.L.				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	25+28.00	0.00	659.35	659.35
Ctr. Brg. S. Abut.	25+29.67	0.00	659.35	659.35
A	25+39.67	0.00	659.38	659.41
B	25+49.67	0.00	659.41	659.46
C	25+59.67	0.00	659.44	659.51
D	25+69.67	0.00	659.47	659.55
E	25+79.67	0.00	659.51	659.58
F	25+89.67	0.00	659.55	659.60
G	25+99.67	0.00	659.60	659.63
H	26+09.67	0.00	659.64	659.66
I	26+19.67	0.00	659.70	659.69
J	26+29.67	0.00	659.75	659.74
K	26+39.67	0.00	659.81	659.80
Ctr. Brg. Pier 1	26+47.00	0.00	659.85	659.85
L	26+57.00	0.00	659.92	659.95
M	26+67.00	0.00	659.98	660.07
N	26+77.00	0.00	660.05	660.20
O	26+87.00	0.00	660.13	660.33
P	26+97.00	0.00	660.20	660.47
Q	27+07.00	0.00	660.28	660.60
R	27+17.00	0.00	660.37	660.72
S	27+27.00	0.00	660.45	660.82
T	27+37.00	0.00	660.54	660.91
U	27+47.00	0.00	660.64	660.98
V	27+57.00	0.00	660.73	661.03
W	27+67.00	0.00	660.83	661.07
X	27+77.00	0.00	660.94	661.09
Y	27+87.00	0.00	661.04	661.10
Ctr. Brg. N. Abut.	27+93.33	0.00	661.11	661.11
Bk. N. Abut.	27+95.00	0.00	661.13	661.13

MODEL: Default  
 FILE NAME: P:\18-1038.04 St. Joseph Road over Salt Fork River\Structures\0100293-70616-004-Top of Slab Elevations.dgn

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PLOT DATE =	DRAWN - RJO	REVISED -
	CHECKED - BB	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS**  
**STRUCTURE NO. 010-0293**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	77-00089-01-BR-1	CHAMPAIGN	91	32
CONTRACT NO. 70616				
ILLINOIS FED. AID PROJECT				




MODEL: Default  
 FILE NAME: P:\18-1038.04 St. Joseph Road over Salt Fork River\Structures\0100293-70616-005-Top\_of\_Slab\_Elevations.dgn

GIRDER 4				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	25+28.00	2.92	659.31	659.31
☒ Brg. S. Abut.	25+29.67	2.92	659.31	659.31
A	25+39.67	2.92	659.33	659.36
B	25+49.67	2.92	659.36	659.42
C	25+59.67	2.92	659.39	659.46
D	25+69.67	2.92	659.43	659.50
E	25+79.67	2.92	659.47	659.53
F	25+89.67	2.92	659.51	659.56
G	25+99.67	2.92	659.55	659.59
H	26+09.67	2.92	659.60	659.61
I	26+19.67	2.92	659.65	659.65
J	26+29.67	2.92	659.71	659.69
K	26+39.67	2.92	659.76	659.75
☒ Brg. Pier 1	26+47.00	2.92	659.81	659.81
L	26+57.00	2.92	659.87	659.91
M	26+67.00	2.92	659.94	660.02
N	26+77.00	2.92	660.01	660.15
O	26+87.00	2.92	660.08	660.29
P	26+97.00	2.92	660.16	660.42
Q	27+07.00	2.92	660.24	660.55
R	27+17.00	2.92	660.32	660.67
S	27+27.00	2.92	660.41	660.78
T	27+37.00	2.92	660.50	660.87
U	27+47.00	2.92	660.59	660.94
V	27+57.00	2.92	660.69	660.99
W	27+67.00	2.92	660.79	661.02
X	27+77.00	2.92	660.89	661.05
Y	27+87.00	2.92	661.00	661.06
☒ Brg. N. Abut.	27+93.33	2.92	661.07	661.07
Bk. N. Abut.	27+95.00	2.92	661.09	661.09

GIRDER 5				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	25+28.00	8.75	659.22	659.22
☒ Brg. S. Abut.	25+29.67	8.75	659.22	659.22
A	25+39.67	8.75	659.25	659.28
B	25+49.67	8.75	659.27	659.33
C	25+59.67	8.75	659.31	659.37
D	25+69.67	8.75	659.34	659.41
E	25+79.67	8.75	659.38	659.45
F	25+89.67	8.75	659.42	659.47
G	25+99.67	8.75	659.46	659.50
H	26+09.67	8.75	659.51	659.53
I	26+19.67	8.75	659.56	659.56
J	26+29.67	8.75	659.62	659.61
K	26+39.67	8.75	659.68	659.67
☒ Brg. Pier 1	26+47.00	8.75	659.72	659.72
L	26+57.00	8.75	659.78	659.82
M	26+67.00	8.75	659.85	659.94
N	26+77.00	8.75	659.92	660.06
O	26+87.00	8.75	660.00	660.20
P	26+97.00	8.75	660.07	660.34
Q	27+07.00	8.75	660.15	660.47
R	27+17.00	8.75	660.24	660.59
S	27+27.00	8.75	660.32	660.69
T	27+37.00	8.75	660.41	660.78
U	27+47.00	8.75	660.51	660.85
V	27+57.00	8.75	660.60	660.90
W	27+67.00	8.75	660.70	660.94
X	27+77.00	8.75	660.81	660.96
Y	27+87.00	8.75	660.91	660.97
☒ Brg. N. Abut.	27+93.33	8.75	660.98	660.98
Bk. N. Abut.	27+95.00	8.75	661.00	661.00

GIRDER 6				
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	25+28.00	14.58	659.12	659.12
☒ Brg. S. Abut.	25+29.67	14.58	659.12	659.12
A	25+39.67	14.58	659.15	659.18
B	25+49.67	14.58	659.17	659.23
C	25+59.67	14.58	659.21	659.27
D	25+69.67	14.58	659.24	659.31
E	25+79.67	14.58	659.28	659.35
F	25+89.67	14.58	659.32	659.37
G	25+99.67	14.58	659.36	659.40
H	26+09.67	14.58	659.41	659.43
I	26+19.67	14.58	659.46	659.46
J	26+29.67	14.58	659.52	659.51
K	26+39.67	14.58	659.58	659.56
☒ Brg. Pier 1	26+47.00	14.58	659.62	659.62
L	26+57.00	14.58	659.68	659.72
M	26+67.00	14.58	659.75	659.84
N	26+77.00	14.58	659.82	659.96
O	26+87.00	14.58	659.89	660.10
P	26+97.00	14.58	659.97	660.24
Q	27+07.00	14.58	660.05	660.37
R	27+17.00	14.58	660.14	660.49
S	27+27.00	14.58	660.22	660.59
T	27+37.00	14.58	660.31	660.68
U	27+47.00	14.58	660.41	660.75
V	27+57.00	14.58	660.50	660.80
W	27+67.00	14.58	660.60	660.83
X	27+77.00	14.58	660.71	660.86
Y	27+87.00	14.58	660.81	660.87
☒ Brg. N. Abut.	27+93.33	14.58	660.88	660.88
Bk. N. Abut.	27+95.00	14.58	660.90	660.90

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**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS  
 STRUCTURE NO. 010-0293**

SHEET 5 OF 24 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	77-00089-01-BR-1	CHAMPAIGN	91	33
CONTRACT NO. 70616				
		ILLINOIS	FED. AID PROJECT	

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End of South Appr. Slab	24+99.00	-16.00	659.04
A	25+09.00	-16.00	659.05
B	25+19.00	-16.00	659.07
N. End of South Appr. Slab	25+29.00	-16.00	659.09

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of South Appr. Slab	24+99.00	-12.00	659.12
A	25+09.00	-12.00	659.13
B	25+19.00	-12.00	659.15
N. End of South Appr. Slab	25+29.00	-12.00	659.17

CENTERLINE ROADWAY & P.G.L.

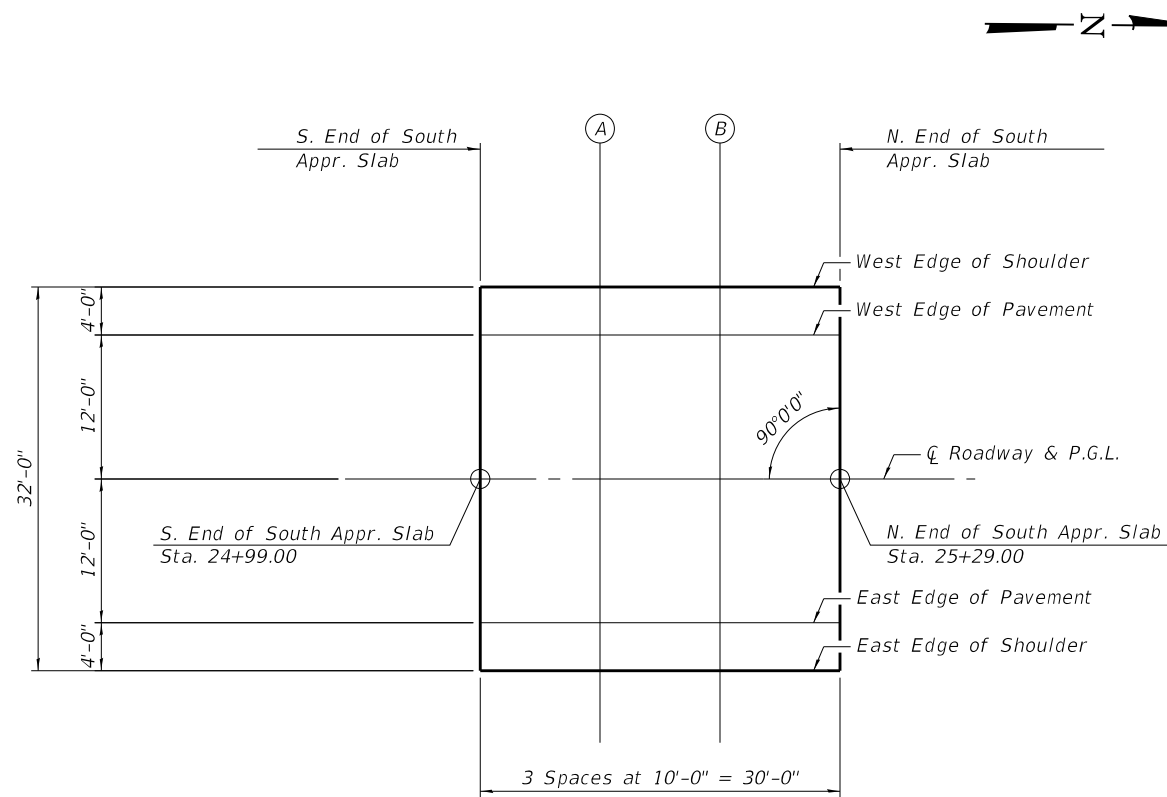
Location	Station	Offset	Theoretical Grade Elevations
S. End of South Appr. Slab	24+99.00	0.00	659.30
A	25+09.00	0.00	659.31
B	25+19.00	0.00	659.33
N. End of South Appr. Slab	25+29.00	0.00	659.35

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of South Appr. Slab	24+99.00	12.00	659.12
A	25+09.00	12.00	659.13
B	25+19.00	12.00	659.15
N. End of South Appr. Slab	25+29.00	12.00	659.17

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End of South Appr. Slab	24+99.00	16.00	659.04
A	25+09.00	16.00	659.05
B	25+19.00	16.00	659.07
N. End of South Appr. Slab	25+29.00	16.00	659.09



PLAN

E-AS

2-17-2017

MODEL: Default  
FILE NAME: P:\18-1038.04 St. Joseph Road over Salt Fork River\Structures\0100293-70616-006-Top\_of\_South\_Appr\_Slab\_Elevations.dgn

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	CHECKED - BB	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**TOP OF SOUTH APPROACH SLAB ELEVATIONS**  
**STRUCTURE NO. 010-0293**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	77-00089-01-BR-1	CHAMPAIGN	91	34
CONTRACT NO. 70616				
ILLINOIS FED. AID PROJECT				

WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End of North Appr. Slab	27+94.00	-16.00	660.86
A	28+04.00	-16.00	660.97
B	28+14.00	-16.00	661.09
N. End of North Appr. Slab	28+24.00	-16.00	661.21

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End of North Appr. Slab	27+94.00	-12.00	660.94
A	28+04.00	-12.00	661.05
B	28+14.00	-12.00	661.17
N. End of North Appr. Slab	28+24.00	-12.00	661.29

CENTERLINE ROADWAY & P.G.L.

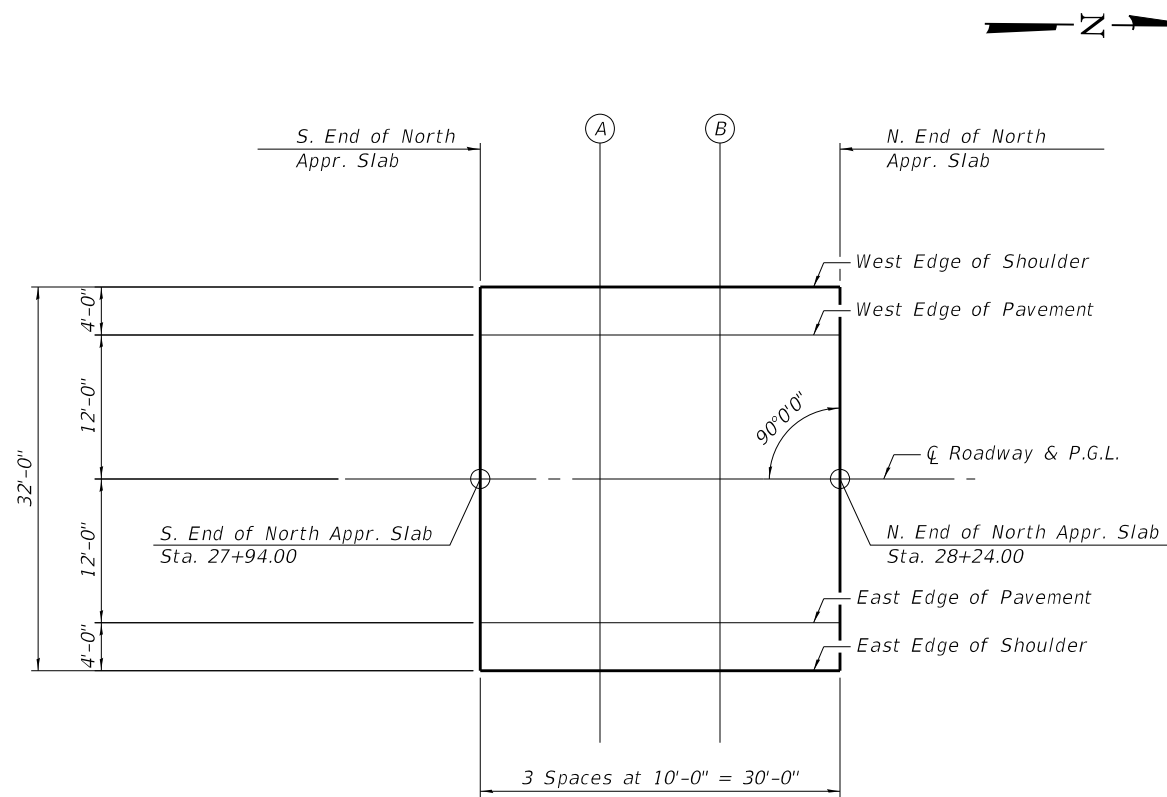
Location	Station	Offset	Theoretical Grade Elevations
S. End of North Appr. Slab	27+94.00	0.00	661.12
A	28+04.00	0.00	661.23
B	28+14.00	0.00	661.35
N. End of North Appr. Slab	28+24.00	0.00	661.47

EAST EDGE OF PAVEMENT

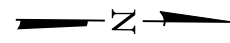
Location	Station	Offset	Theoretical Grade Elevations
S. End of North Appr. Slab	27+94.00	12.00	660.94
A	28+04.00	12.00	661.05
B	28+14.00	12.00	661.17
N. End of North Appr. Slab	28+24.00	12.00	661.29

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End of North Appr. Slab	27+94.00	16.00	660.86
A	28+04.00	16.00	660.97
B	28+14.00	16.00	661.09
N. End of North Appr. Slab	28+24.00	16.00	661.21



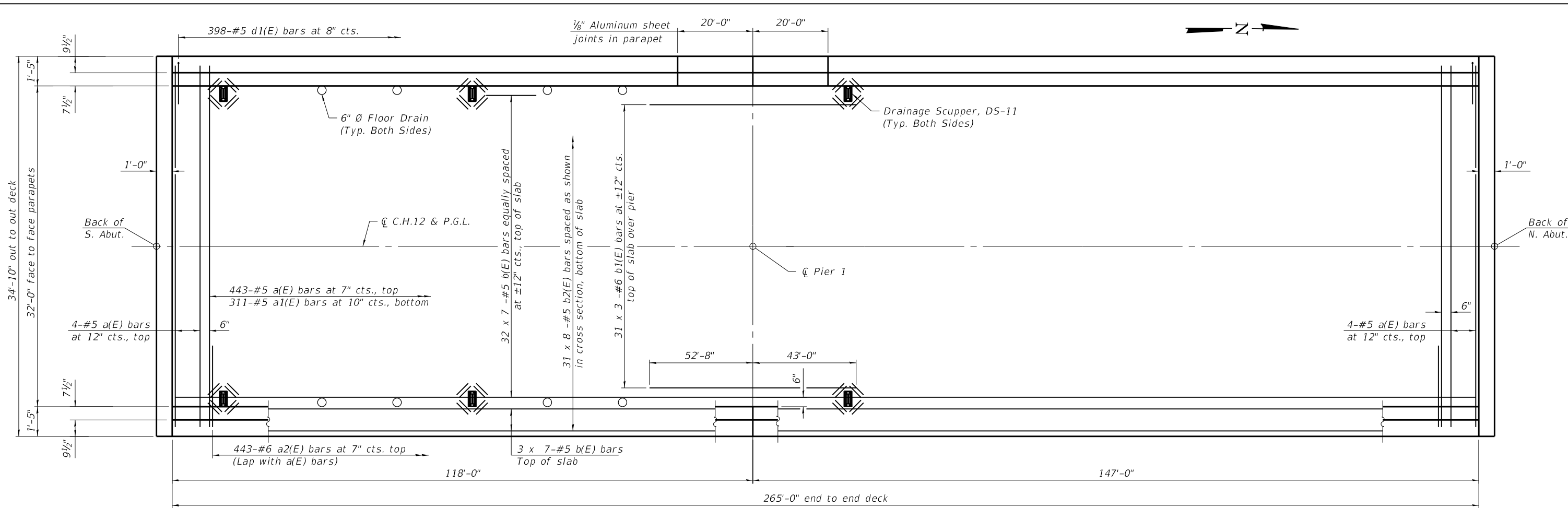
PLAN



MODEL: Default  
FILE NAME: P:\18-1038.04 St. Joseph Road over Salt Fork River\Structures\0100293-70616-007-Top of North Appr. Slab Elevations.dgn

E-AS 2-17-2017

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	PLOT SCALE =	DRAWN - RJO	REVISED -			516	77-00089-01-BR-1	CHAMPAIGN	91	35
<small>200 E. Main St., Suite 200 Moulton, IL 62450 618-233-2877 phone 618-233-2977 fax www.kaskaskiaeng.com</small>	PLOT DATE =	CHECKED - BB	REVISED -	SHEET 7 OF 24 SHEETS		CONTRACT NO. 70616		ILLINOIS FED. AID PROJECT		

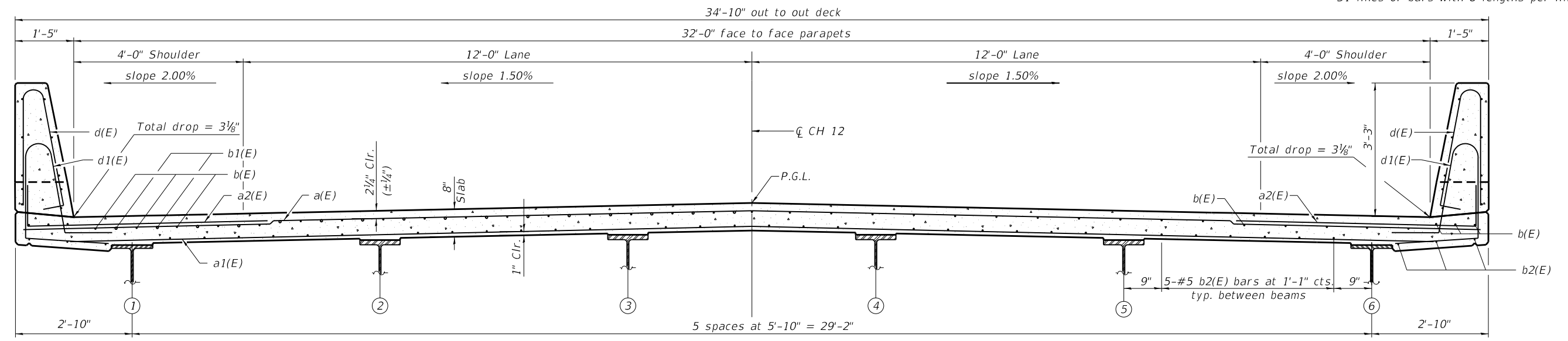


PLAN

MINIMUM BAR LAP

#5 bar = 3'-6"  
 #6 bar = 3'-7"

Notes:  
 See sheet 1 of 24 for drainage spacing.  
 See sheet 9 of 24 for superstructure details and Bill of Material.  
 Bars indicated thus 31 x 8-#5 etc. indicates 31 lines of bars with 8 lengths per line.



CROSS SECTION (Looking North)

MODEL: Default  
 FILE NAME: P:\18-1038.04 St. Joseph Road over Salt Fork River\Structures\0100293-70616-008-Superstructure.dgn

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PLOT DATE =	DRAWN - RJO	REVISED -
	CHECKED - BB	REVISED -

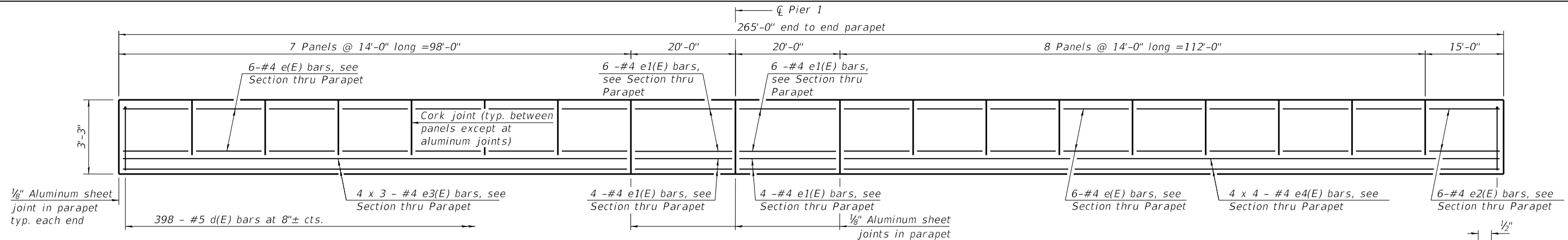
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE  
 STRUCTURE NO. 010-0293

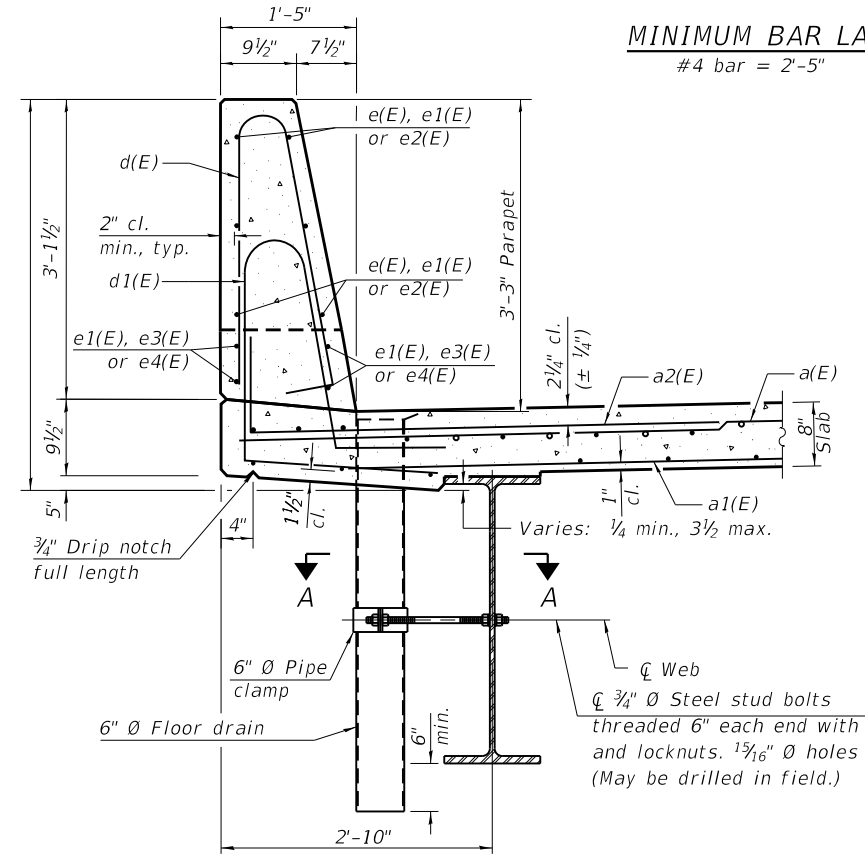
SHEET 8 OF 24 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	77-00089-01-BR-1	CHAMPAIGN	91	36
CONTRACT NO. 70616				

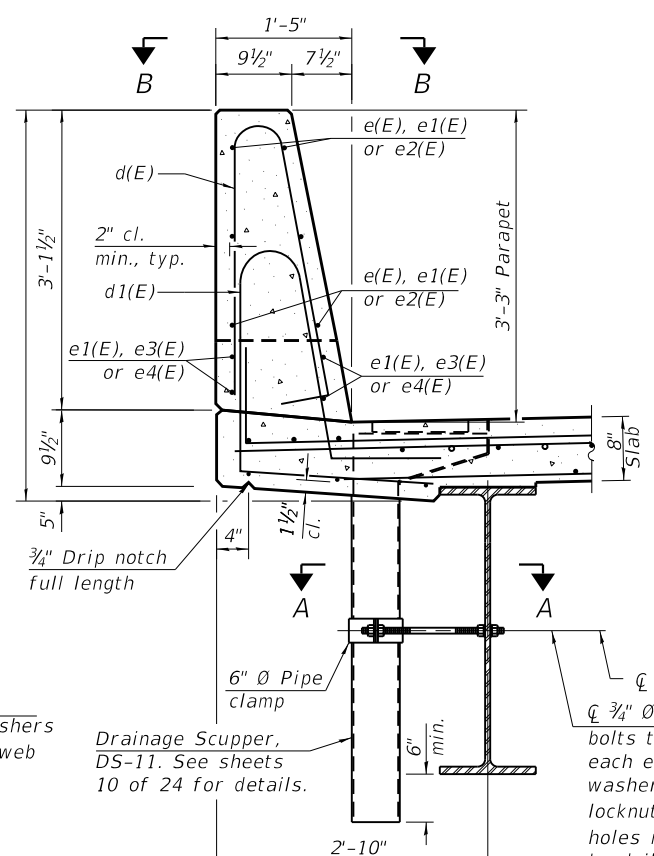
ILLINOIS FED. AID PROJECT



**INSIDE ELEVATION OF PARAPET**  
(West Parapet Shown, East Parapet Similar)

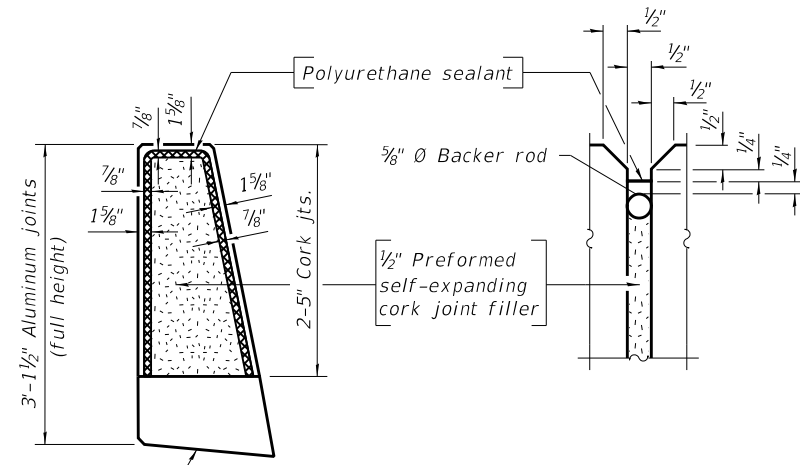


**SECTION THRU PARAPET**  
(showing floor drain)

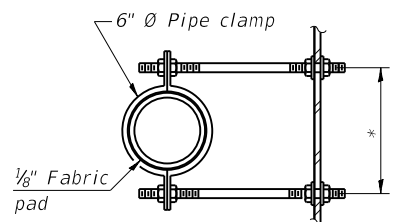
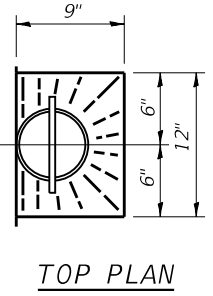
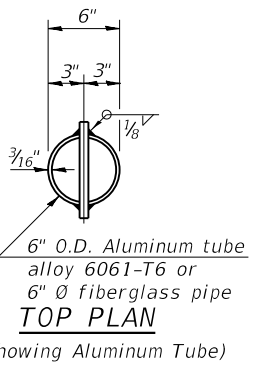
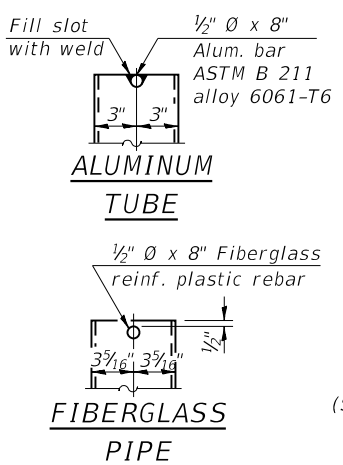


**SECTION THRU PARAPET**  
(showing drainage scupper)

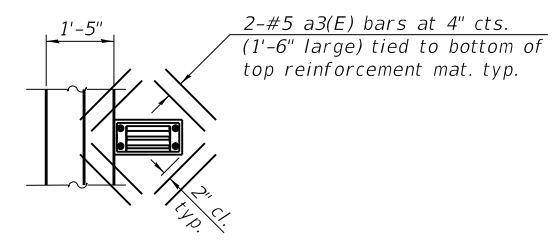
**Notes:**  
Fiberglass pipe shall conform to ASTM D2996, with short-time rupture strength hoop tensile stress of 30,000 p.s.i. minimum.  
The exterior surfaces of the floor drains shall be painted according to Article 506 with the finish coat as specified. The exterior surfaces of the drains shall be cleaned according to the Society of Protective Coatings Spec. SSPC-SP1 prior to painting.  
The top portion of aluminum floor drains shall be coated to minimize reaction with wet concrete.  
The clamping device shall be galvanized according to AASHTO M 232. Cost of clamping device included with Floor Drains.  
The 1/8" aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.  
The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.  
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.



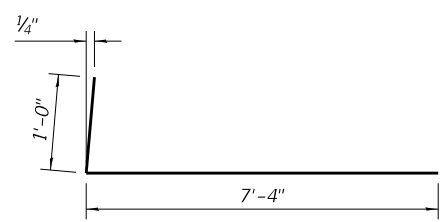
**PARAPET JOINT DETAILS**



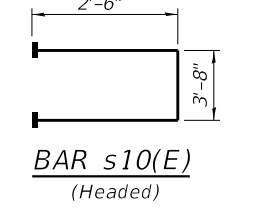
**SECTION A-A**  
\* Dimension as required by pipe clamp



**Note:**  
Cut longitudinal reinforcement to clear drainage scuppers.

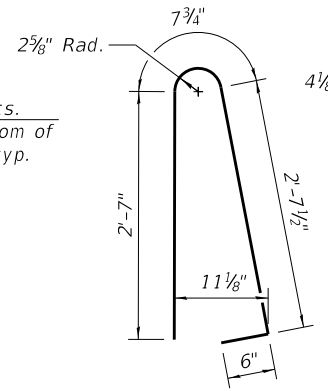


**BAR a2(E)**

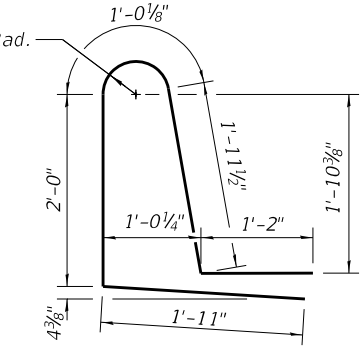


**BAR s10(E)**  
(Headed)

**BAR s11(E)**



**BAR d(E)**



**BAR d1(E)**

**SUPERSTRUCTURE BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	451	#5	34'-6"	—
a1(E)	311	#5	34'-4"	—
a2(E)	886	#6	8'-4"	—
a3(E)	96	#5	1'-6"	—
b(E)	266	#5	40'-10"	—
b1(E)	93	#6	34'-4"	—
b2(E)	248	#5	36'-2"	—
d(E)	796	#5	6'-5"	—
d1(E)	796	#5	8'-1"	—
e(E)	180	#4	13'-8"	—
e1(E)	40	#4	19'-8"	—
e2(E)	12	#4	14'-8"	—
e3(E)	24	#4	34'-2"	—
e4(E)	32	#4	33'-6"	—
m10(E)	12	#6	34'-6"	—
m11(E)	50	#6	5'-5"	—
m12(E)	20	#6	2'-5"	—
m13(E)	60	#5	4'-0"	—
s10(E)	72	#5	8'-8"	—
s11(E)	62	#5	13'-6"	—
Reinforcement Bars, Epoxy Coated		Lbs.		82,550
Concrete Superstructure		Cu. Yds.		358.1

Bars indicated thus 4 x 3-#4 etc. indicates 4 line of bars with 3 lengths per line.

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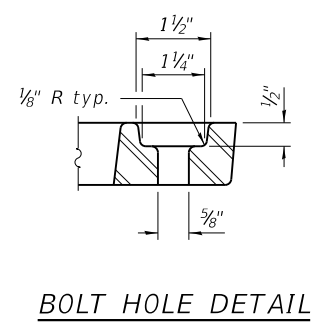
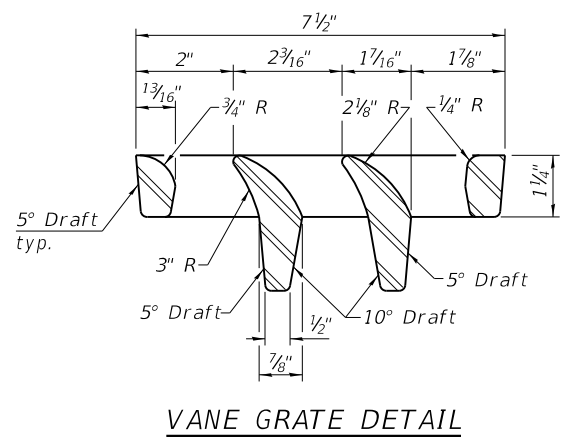
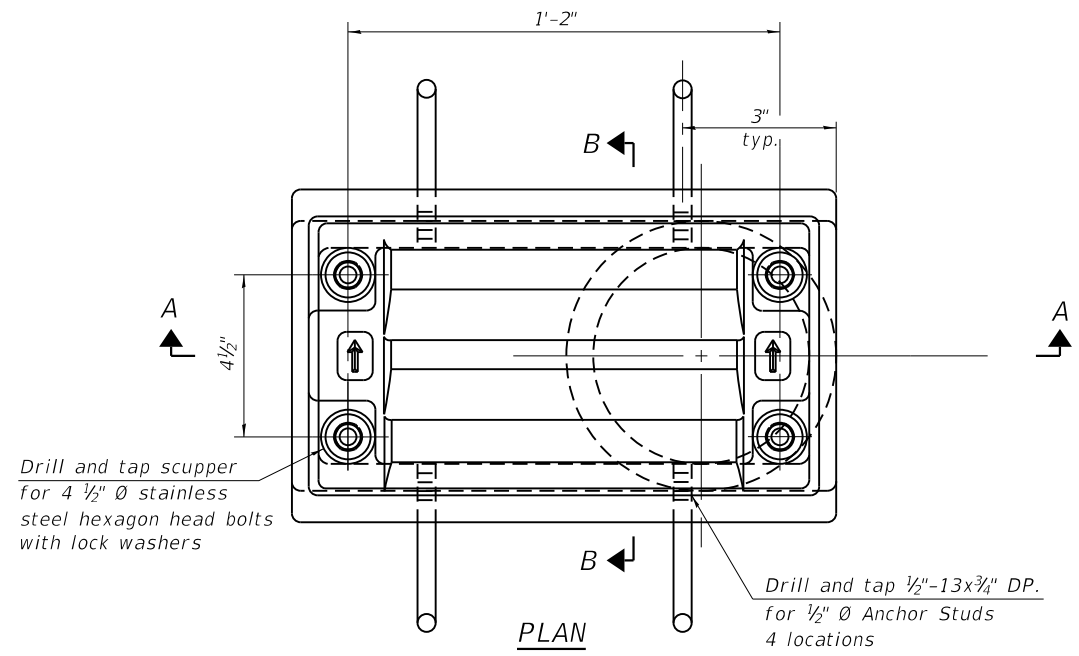
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS**  
**STRUCTURE NO. 010-0293**

SHEET 9 OF 24 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	77-00089-01-BR-1	CHAMPAIGN	91	37
CONTRACT NO. 70616				

ILLINOIS FED. AID PROJECT



Notes:

All cast iron parts shall be gray iron conforming to the requirements of AASHTO M 105, Class 35B.

Bolts, anchor studs, washers and nuts shall conform to the requirements of ASTM A 307 and shall be galvanized according to AASHTO M 232.

Downspouts located on the exterior side of a painted steel fascia beam shall be painted with the finish coat specified for the exterior side of the fascia beam.

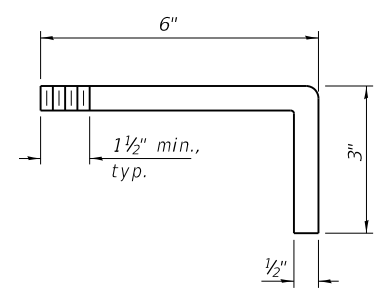
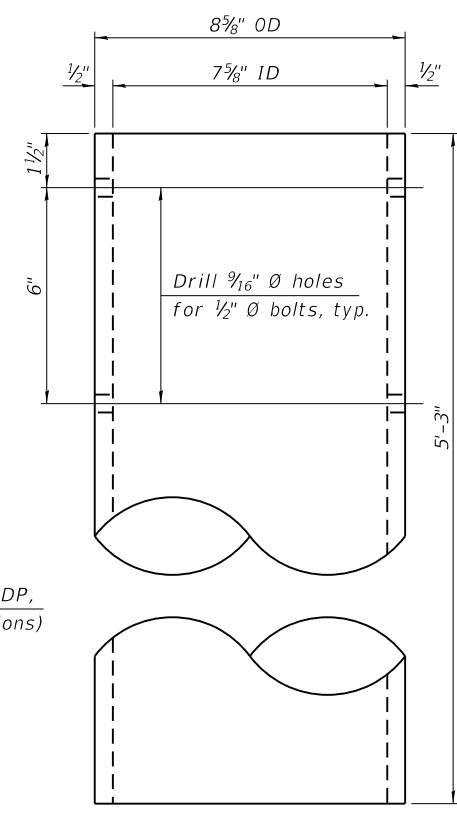
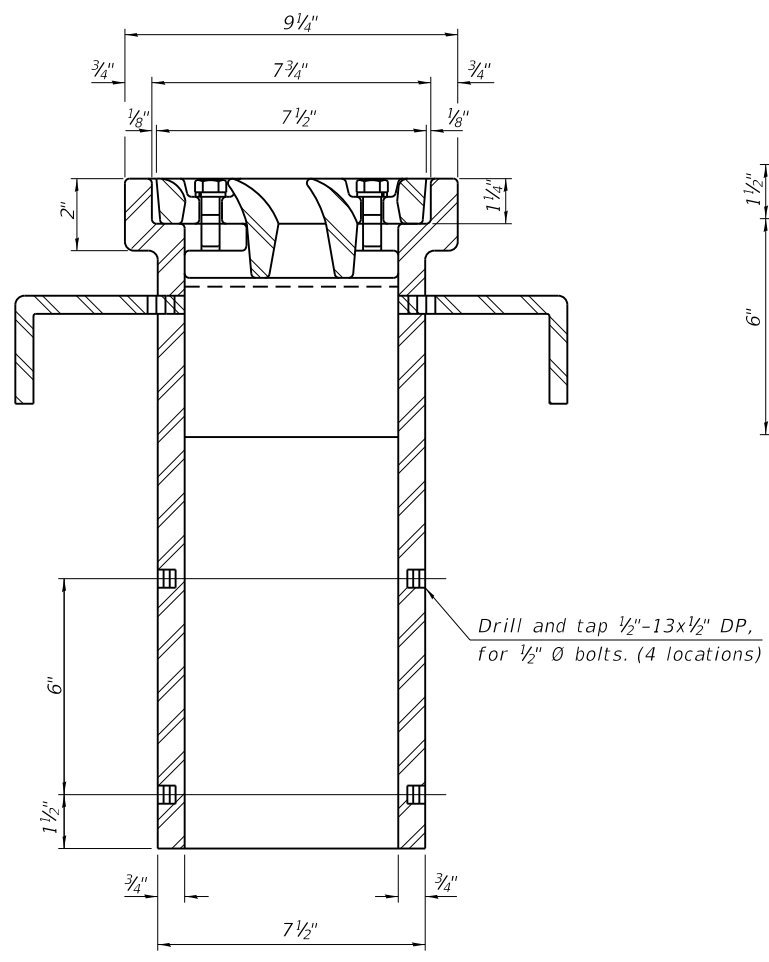
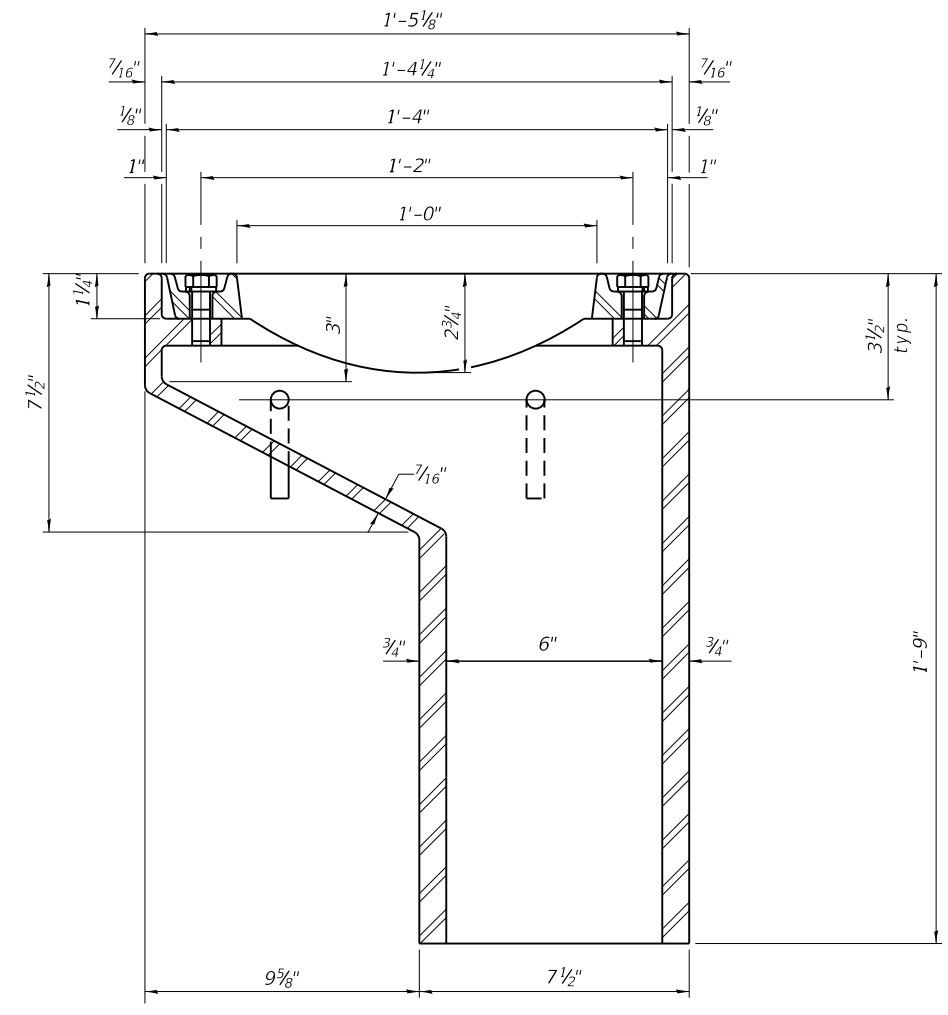
As an alternate, bolts, anchor studs, washers and nuts may be stainless steel according to Article 1006.29(d) of the Standard Specifications.

Structural steel weldments of equal sections and of the same configuration may be substituted for the cast iron scupper frame. Fillet or full penetration welds shall be used for the weldments. Details shall be submitted to the Engineer for approval. Structural steel weldments shall not be substituted for the cast iron scupper grate. Structural steel frames and downspouts shall be galvanized according to AASHTO M111.

The Contractor shall take appropriate measures to assure that Protective Coat is not applied to the scupper.

Cost of the Grate, Frame, Downspout, Anchor Studs, Bolts, Washers and Nuts including complete installation of the scupper shall be paid for at the contract unit price each for Drainage Scupper, DS-11.

Alternate fiberglass downspout conforming to ASTM D 2996 with a short-time rupture strength hoop tensile stress of 30,000 psi min. may be used in lieu of the cast iron or steel equivalent.



See sheet 9 of 24 for scupper location relative to parapet.

**BILL OF MATERIAL**

ITEM	UNIT	QUANTITY
Drainage Scupper, DS-11	Each	6

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DS-11 2-17-2017



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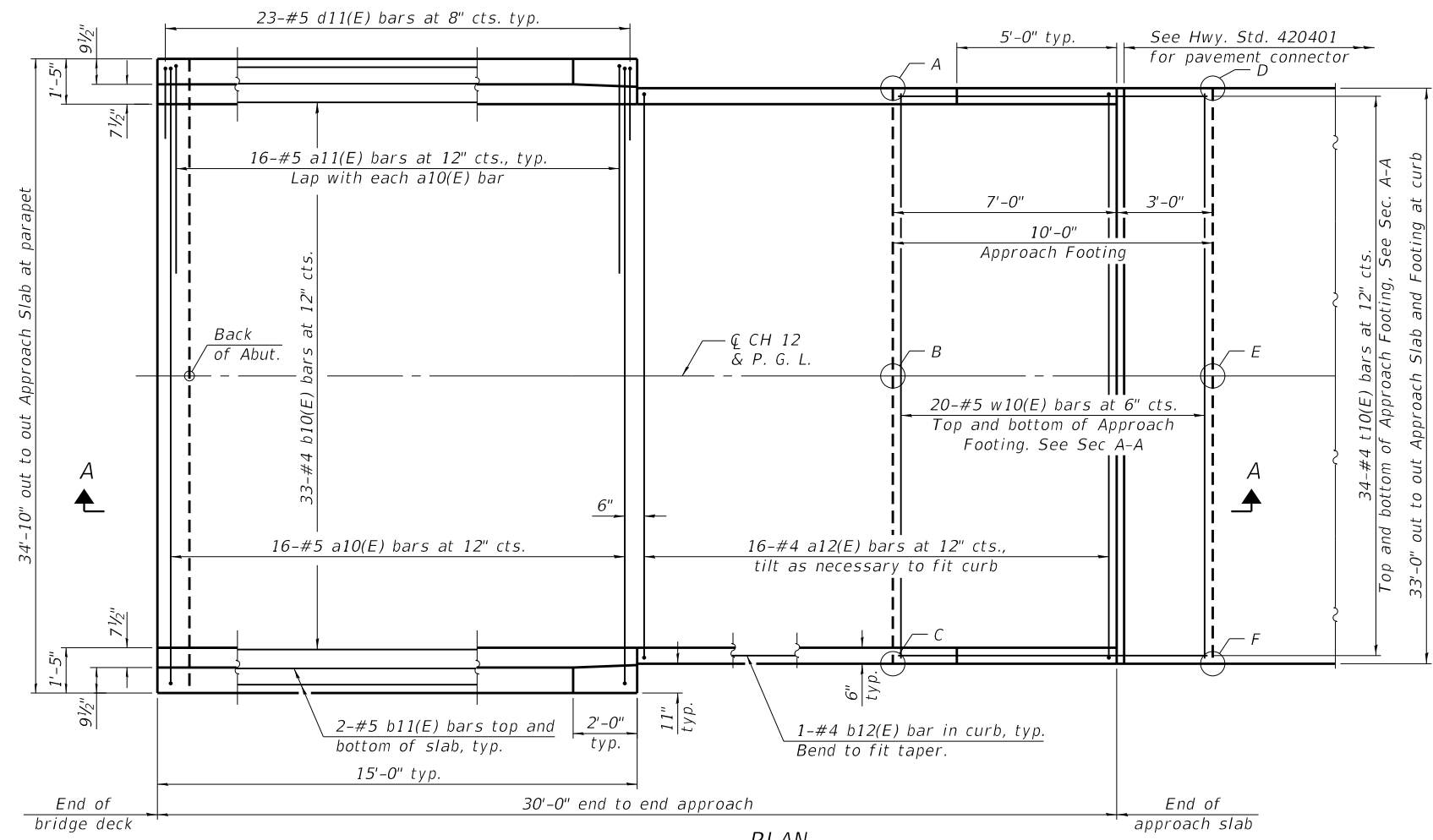
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DRAINAGE SCUPPER, DS-11  
STRUCTURE NO. 010-0293

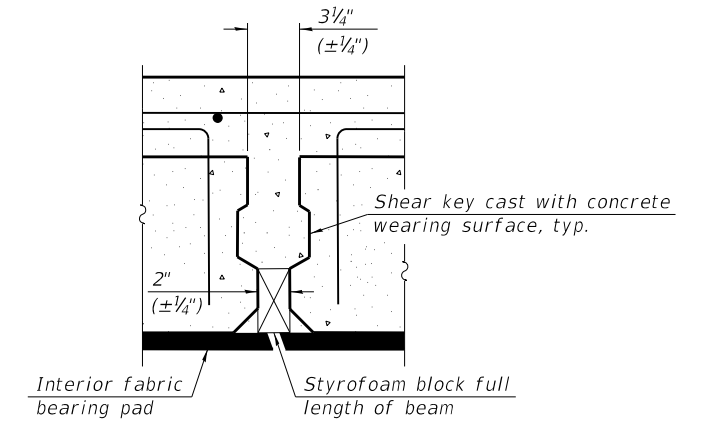
SHEET 10 OF 24 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	77-00089-01-BR-1	CHAMPAIGN	91	38
CONTRACT NO. 70616				
ILLINOIS FED. AID PROJECT				





PLAN

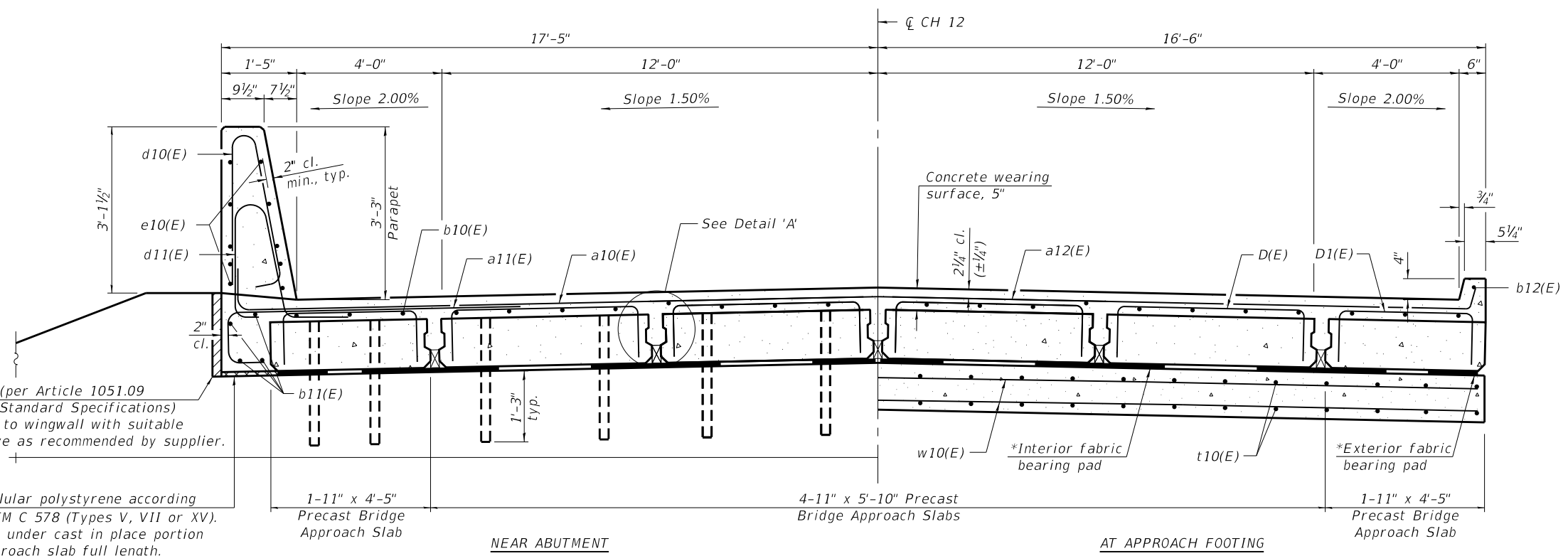


DETAIL 'A'

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

Point	South Approach		North Approach	
	Top	Bottom	Top	Bottom
A	657.66	656.83	659.74	658.91
B	657.93	657.10	660.01	659.18
C	657.66	656.83	659.74	659.91
D	657.65	656.82	659.86	659.02
E	657.92	657.09	660.13	659.29
F	657.65	656.82	659.86	659.02

\* Fabric bearing pads at the expansion end shall be recessed 1/4" into the approach footing and bonded. Adjusting shims, when required, shall be bonded to the top of the fabric bearing pads.



CROSS SECTION (Looking North)

TWO APPROACHES BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	32	#5	36'-2"	[U-shape]
a11(E)	64	#5	8'-2"	[U-shape]
a12(E)	32	#4	33'-5"	[U-shape]
b10(E)	66	#4	29'-8"	[I-shape]
b11(E)	16	#5	14'-8"	[I-shape]
b12(E)	4	#4	14'-8"	[I-shape]
d10(E)	92	#5	6'-5"	[L-shape]
d11(E)	92	#5	6'-5"	[L-shape]
e10(E)	40	#4	14'-8"	[I-shape]
t10(E)	136	#4	9'-8"	[I-shape]
w10(E)	80	#5	32'-8"	[I-shape]
Concrete Superstructure			Cu. Yd.	8.1
Concrete Structures			Cu. Yd.	20.4
Reinforcement Bars, Epoxy Coated			Pound	9,290
Precast Bridge Approach Slab			Sq. Ft.	1,930
Concrete Wearing Surface, 5"			Sq. Yd.	214
Preformed Joint Strip Seal			Foot	66.0

BA-P-39CS-0 6-15-2019 (Beams: 36" min. width; 72" max. width)

(Sheet 1 of 3)

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PRECAST BRIDGE APPROACH SLAB STRUCTURE NO. 010-0293

SHEET 12 OF 24 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	77-00089-01-BR-1	CHAMPAIGN	91	40
CONTRACT NO. 70616				
ILLINOIS FED. AID PROJECT				

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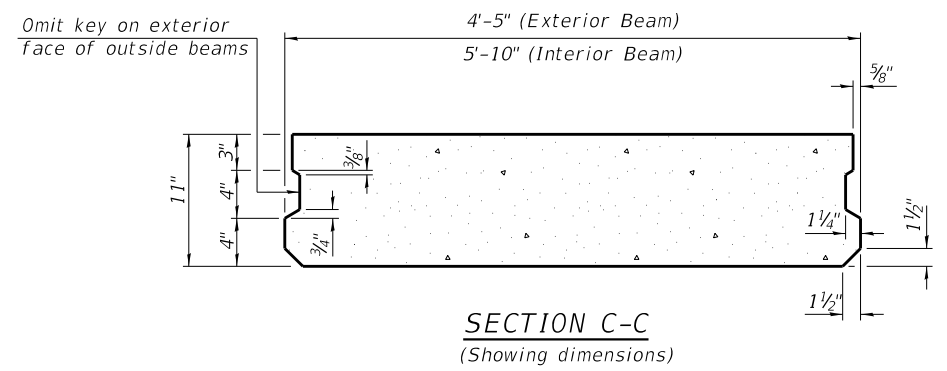
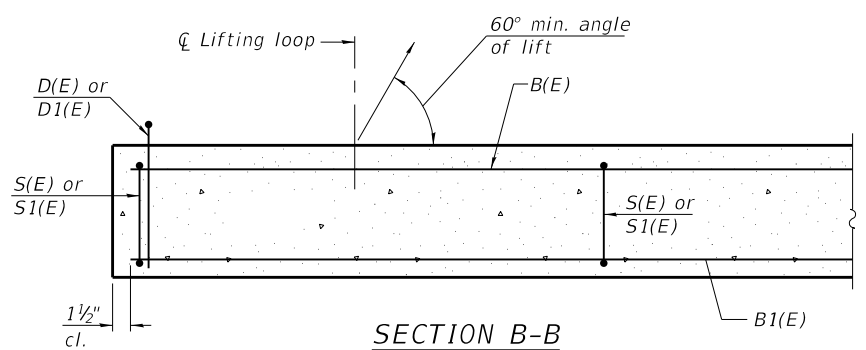


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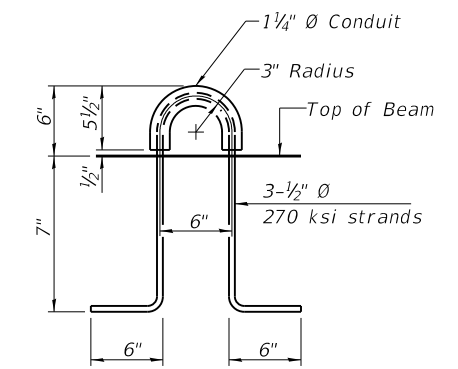
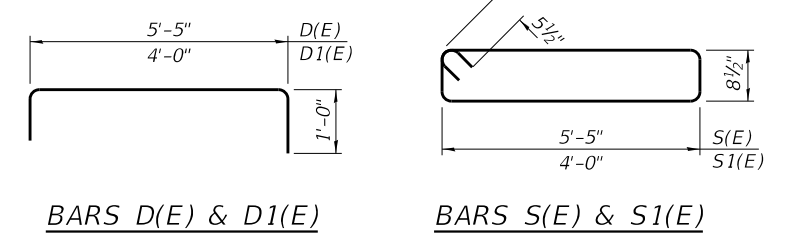
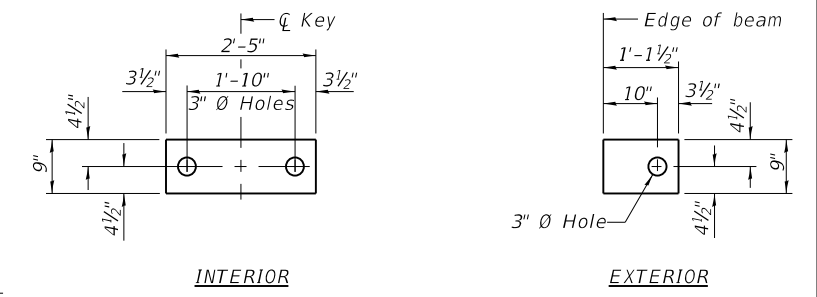
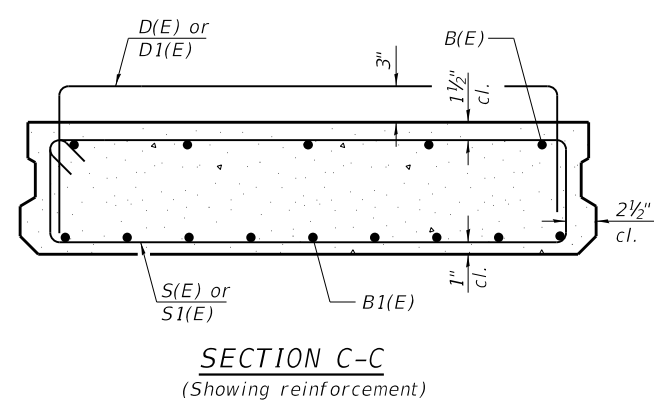
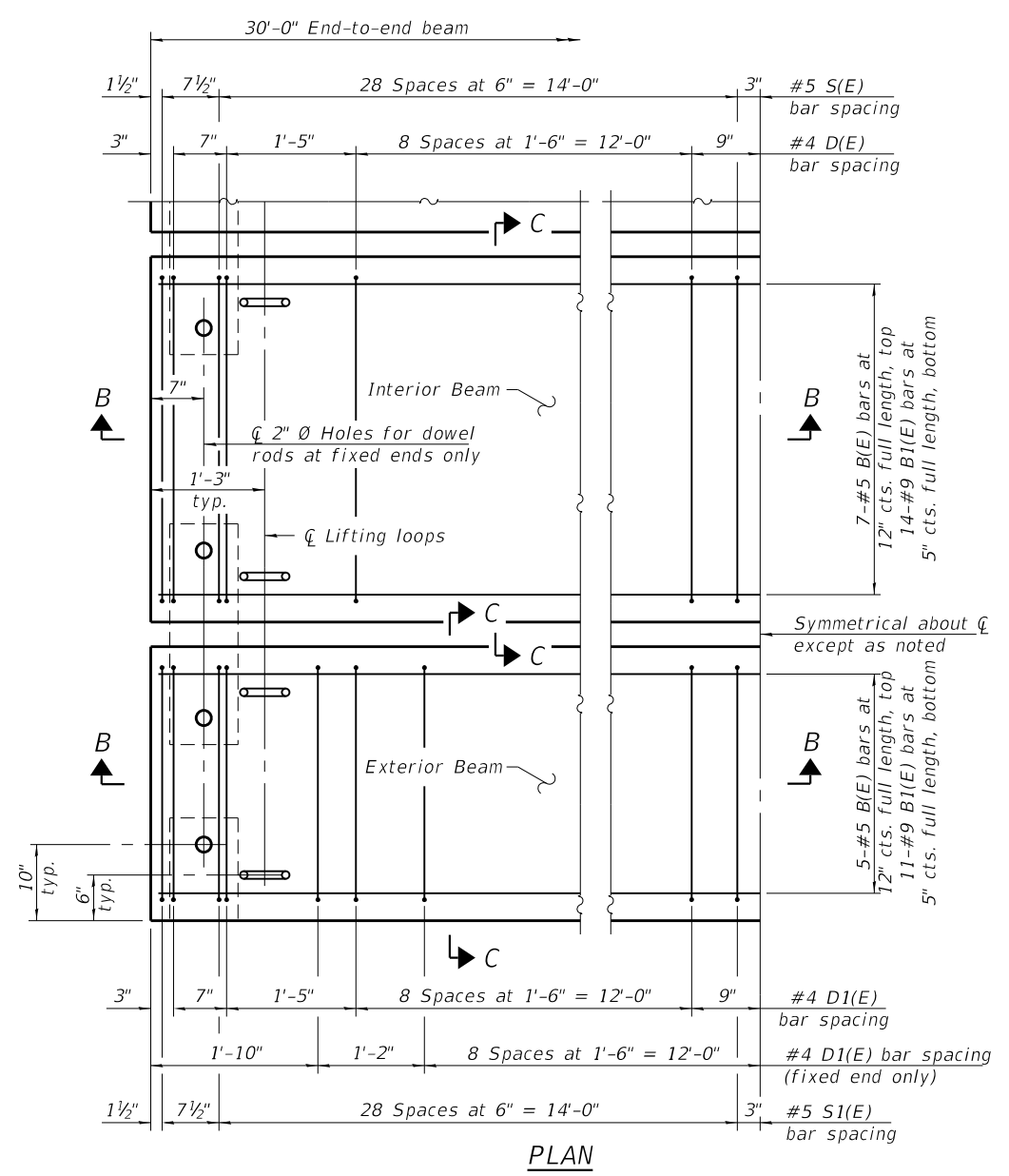
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Notes:  
 The precast bridge approach slab shall be according to Section 504 of the Standard Specifications and shall be paid for at the contract unit price per square foot for Precast Bridge Approach Slab.  
 Cast-in-place substitution of Precast Bridge Approach Slab is not allowed.  
 The top surface of precast bridge approach slabs shall be finished similar to precast prestressed deck beams with concrete wearing surface as specified in the IDOT "Manual for Fabrication of Precast Prestressed Concrete Products."  
 Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. Cost included with Precast Bridge Approach Slab.  
 A minimum 2 1/2" Ø lifting pins shall be used to engage the lifting loops during handling.  
 Compressive strength of precast concrete, f'c shall be 6,000 psi.  
 Compressive strength of precast concrete during initial lifting, f'ci shall be 5,000 psi.



**BAR LIST EACH INTERIOR BEAM**  
(For information only)

Bar	No.	Size	Length	Shape
B(E)	7	#5	29'-8"	—
B1(E)	14	#9	29'-8"	—
D(E)	22	#4	7'-5"	┌
S(E)	60	#5	13'-2"	▬

**BAR LIST EACH EXTERIOR BEAM**  
(For information only)

Bar	No.	Size	Length	Shape
B(E)	5	#5	29'-8"	—
B1(E)	11	#9	29'-8"	—
D1(E)	32	#4	6'-0"	┌
S1(E)	60	#5	10'-4"	▬

**LIFTING LOOP DETAIL**  
 (An alternate lifting loop with a proof load of 25,000 lbs. and utilized according to the manufacturer's recommendations may be used)

BA-P-39CS-0      6-15-2019      (Beams: 36" min. width; 72" max. width)

(Sheet 2 of 3)



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	CHECKED	BB	REVISED

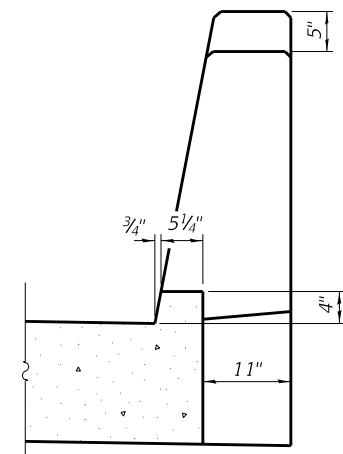
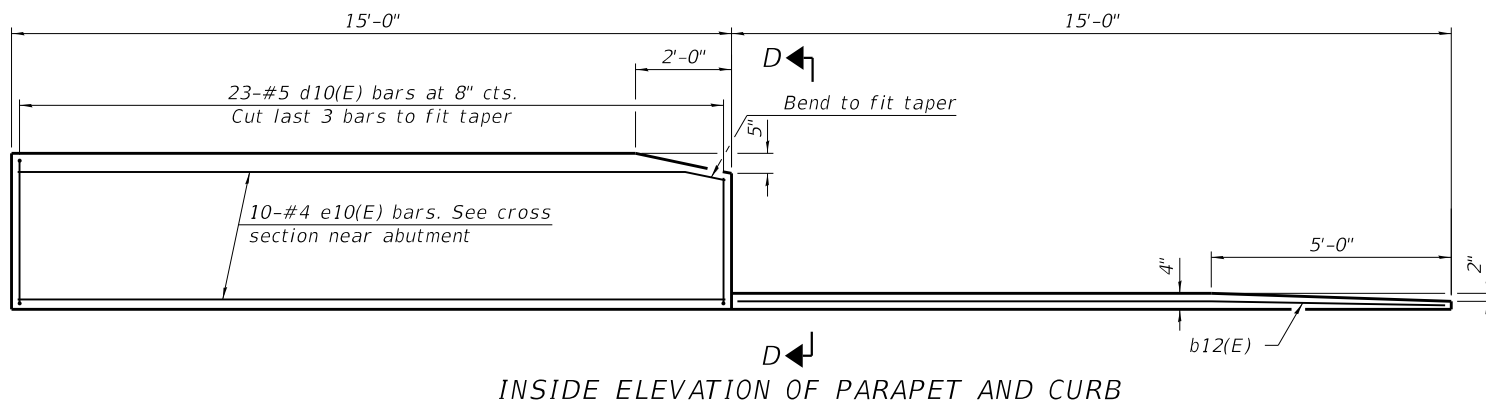
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

PRECAST BRIDGE APPROACH SLAB  
 STRUCTURE NO. 010-0293

SHEET 13 OF 24 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	77-00089-01-BR-1	CHAMPAIGN	91	41
CONTRACT NO. 70616				

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**Notes:**

The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.

After precast bridge approach slabs have been erected, holes shall be drilled into abutment and anchor dowels placed. Dowel holes shall be filled with non-shrink grout to top of precast slab and cured according to Article 1020.13(a)(3) or 1020.13(a)(5) of the Standard Specifications for a minimum of 24 hours before casting the shear keys and wearing surface.

Any concrete poured monolithically with the wearing surface, such as curbs, shall not be paid for separately, but will be included in the cost of Concrete Wearing Surface, 5". The strip seal shall extend 6" beyond the edge of the approach slab on each end. Parapet concrete shall be paid for as Concrete Superstructure.

Approach footing concrete shall be paid for as Concrete Structures. The approach footing maximum applied service bearing pressure (Q<sub>max</sub>) = 2.0 ksf. Cost of excavation for approach footing included with Concrete Structures.

For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 24. Cost of cellular polystyrene is included with Concrete Superstructure.

The strip seal shall be made continuous and shall have a minimum thickness of 1/4". The configuration of the strip seal shall match the configuration of the locking edge rails. Open or "webbed" strip seal gland configurations are not permitted. The gland shall be sized for a maximum rated movement of 4 inches.

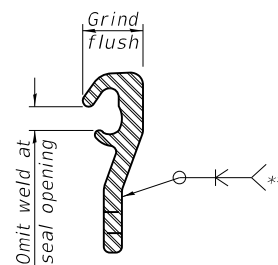
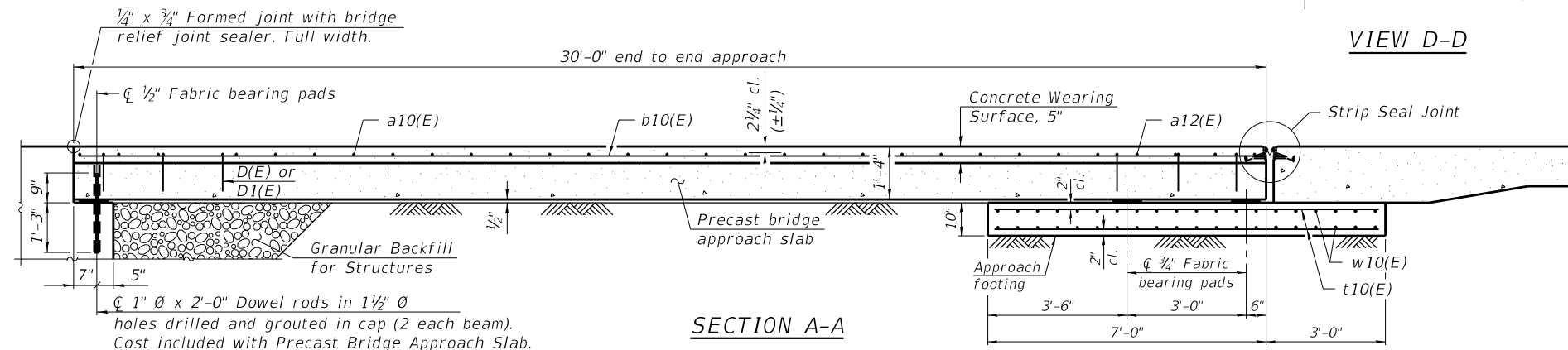
The locking edge rails depicted are configured for typical applications and are conceptual only. The actual configuration of the locking edge rails and matching strip seal may vary from manufacturer to manufacturer provided they fit the application and meet the minimum anchorage shown. Flanged edge rails, however, will not be allowed. Locking edge rails may exceed the 4 1/2" maximum depth provided the anchorage system is revised according to the manufacturer's recommendation.

The manufacturer's recommended installation methods shall be followed.

All steel components shall be galvanized after fabrication according to Article 520.03 of the Standard Specifications.

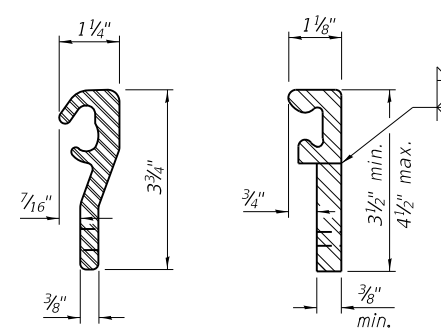
The maximum space between locking edge rail segments shall be 3/16" and sealed with a suitable sealant; however, any rail joint within 10' measured perpendicular to the face of the curb or parapet shall be welded as shown in the locking edge rail splice detail.

The concrete opening below the strip seal will vary based on the locking edge rail chosen by the Contractor. Deck and parapet lengths shown elsewhere in the plans are dimensioned to the concrete opening, not the joint opening, and are based on the rolled locking edge rail. If the Contractor elects to use a different locking edge rail, dimensional adjustments may be required. One exception to this would be the strip seal joint at the end of the precast bridge approach slab. For these cases the pavement connector length shall be adjusted, not the length of the bridge approach slab.



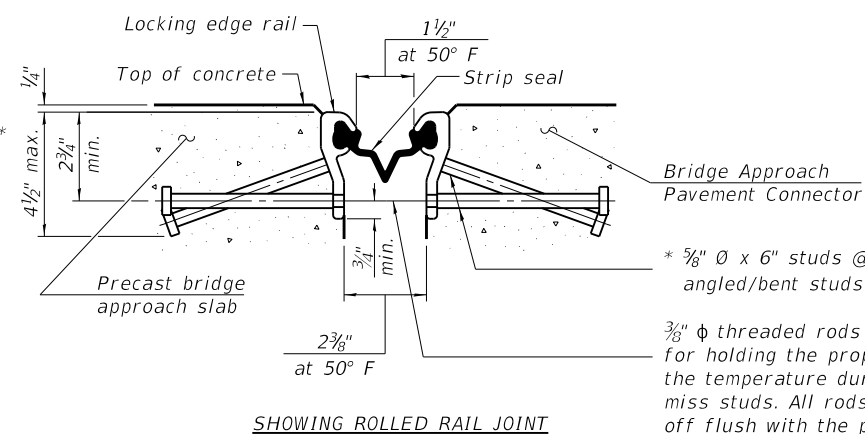
**LOCKING EDGE RAIL SPLICE**

The inside of the locking edge rail groove shall be free of weld residue. Rolled rail shown, welded rail similar.



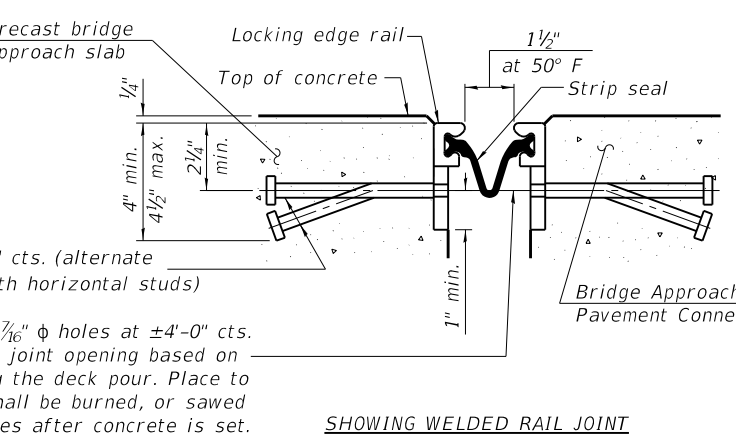
**LOCKING EDGE RAILS**

\*\* Back gouge not required if complete joint penetration is verified by mock-up.



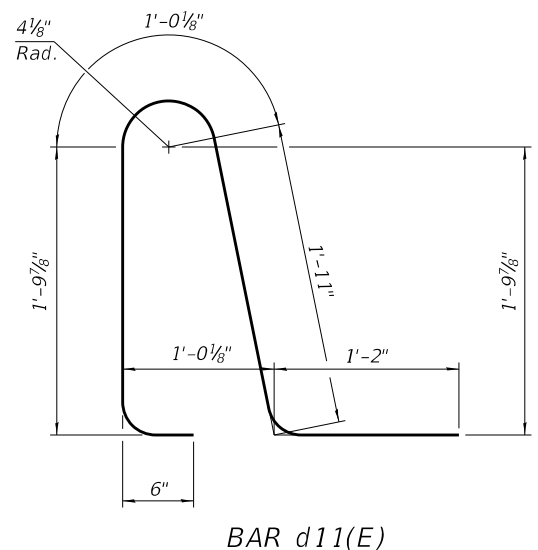
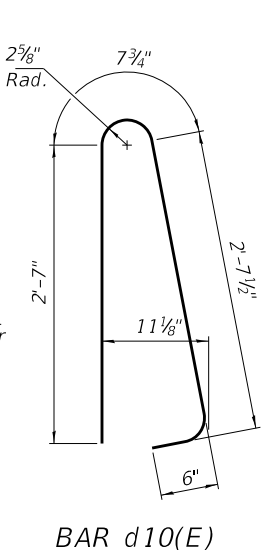
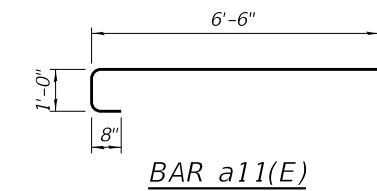
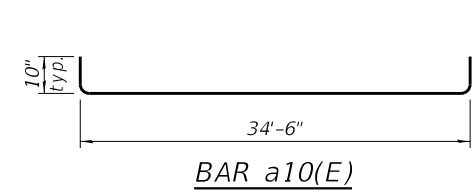
**SECTION THRU STRIP SEAL JOINT**

\* 5/8" Ø x 6" studs @ 6" cts. (alternate angled/bent studs with horizontal studs)  
 3/8" Ø threaded rods in 7/16" Ø holes at ±4'-0" cts. for holding the proper joint opening based on the temperature during the deck pour. Place to miss studs. All rods shall be burned, or sawed off flush with the plates after concrete is set.



**SECTION THRU STRIP SEAL JOINT**

\* Granular or solid flux filled headed studs conforming to Article 1006.32 of the Std. Specs., automatically end welded.



BA-P-39CS-0 6-15-2019 (Beams: 36" min. width; 72" max. width)

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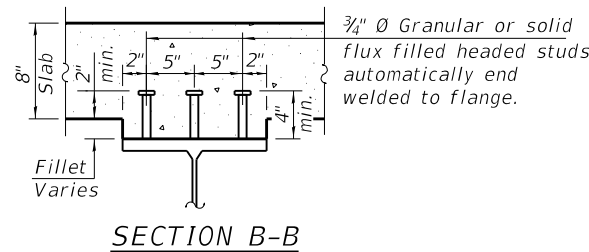
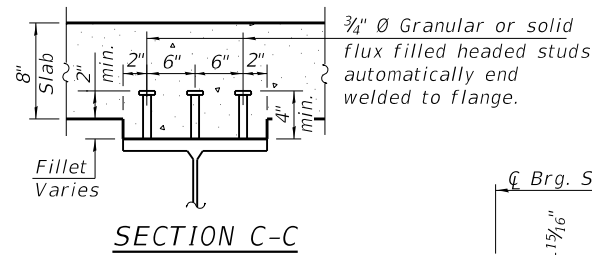
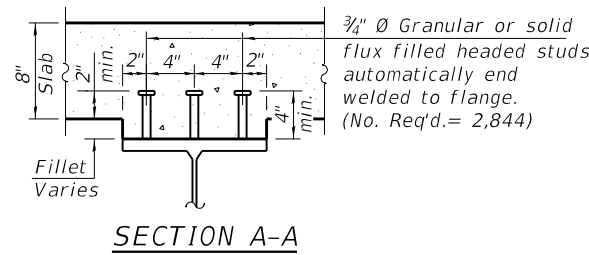
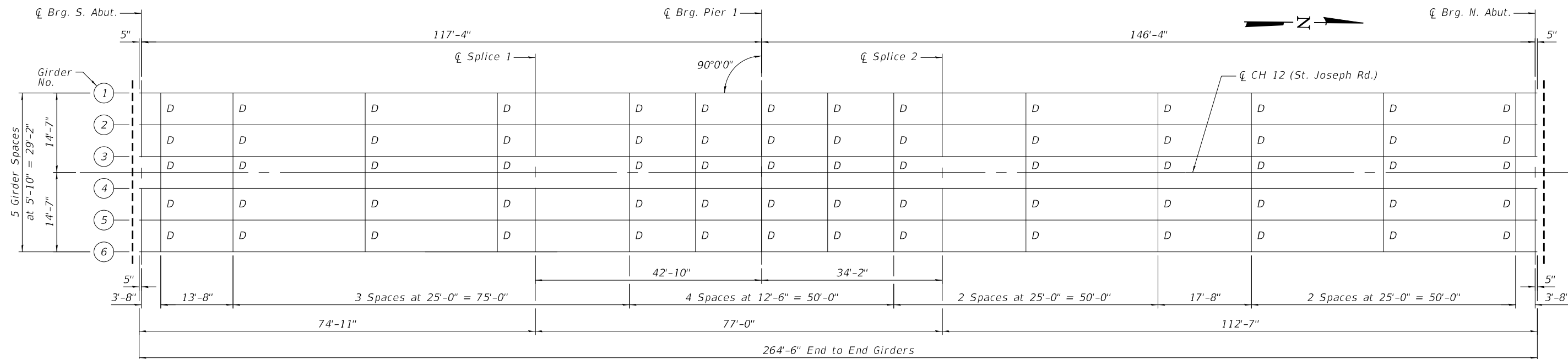
**PRECAST BRIDGE APPROACH SLAB  
STRUCTURE NO. 010-0293**

SHEET 14 OF 24 SHEETS

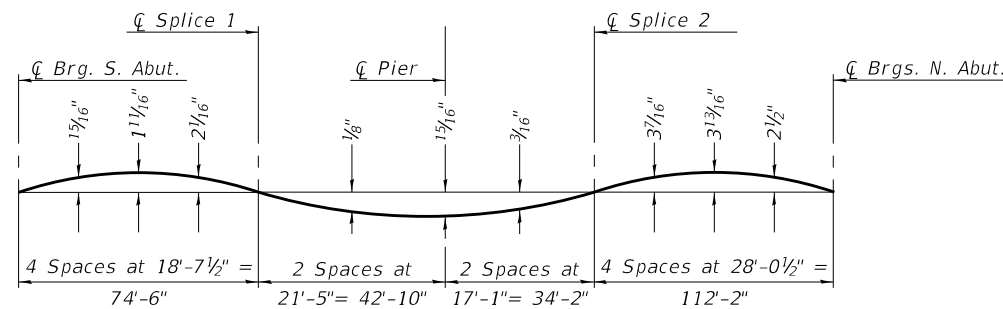
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	77-00089-01-BR-1	CHAMPAIGN	91	42
CONTRACT NO. 70616				

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FRAMING PLAN



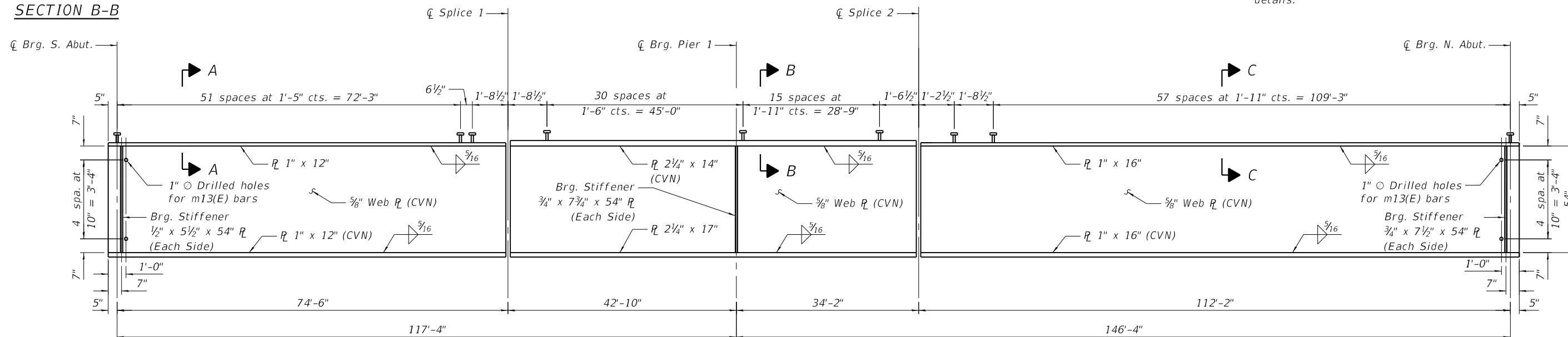
CAMBER DIAGRAM

\*TOP OF WEB ELEVATIONS

Location	℄ Brg. S. Abut.	℄ Splice 1	℄ Pier	℄ Splice 2	℄ Brg. N. Abut.
Girder 1	658.30	658.40	658.68	659.04	660.06
Girder 2	658.40	658.50	658.78	659.14	660.16
Girder 3	658.49	658.58	658.86	659.22	660.25
Girder 4	658.49	658.58	658.86	659.22	660.25
Girder 5	658.40	658.50	658.78	659.14	660.16
Girder 6	658.30	658.40	658.68	659.04	660.06

\*For Fabrication Only

Notes:  
See sheet 17 of 24 for bearing bolt hole placement.  
See sheet 16 of 24 for Diaphragm and Splice details.



GIRDER ELEVATION

"CVN" denotes Charpy-V-Notch impact energy requirements, Zone 2.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FRAMING PLAN  
STRUCTURE NO. 010-0293

SHEET 15 OF 24 SHEETS

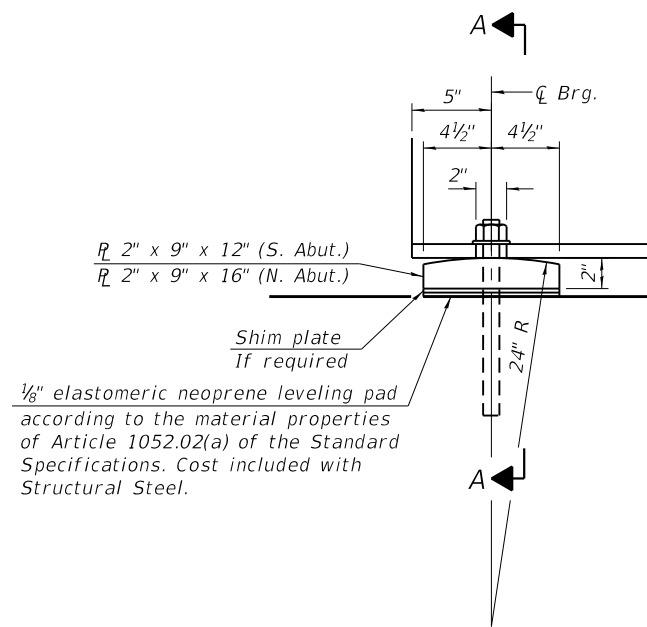
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	77-00089-01-BR-1	CHAMPAIGN	91	43
CONTRACT NO. 70616				

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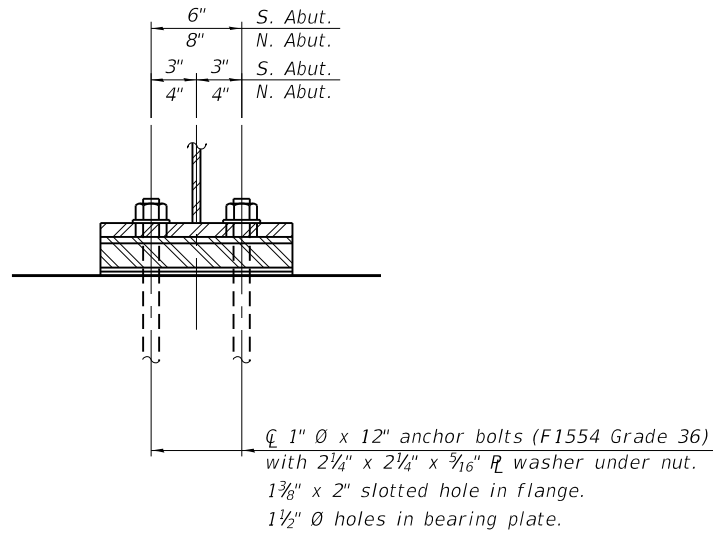
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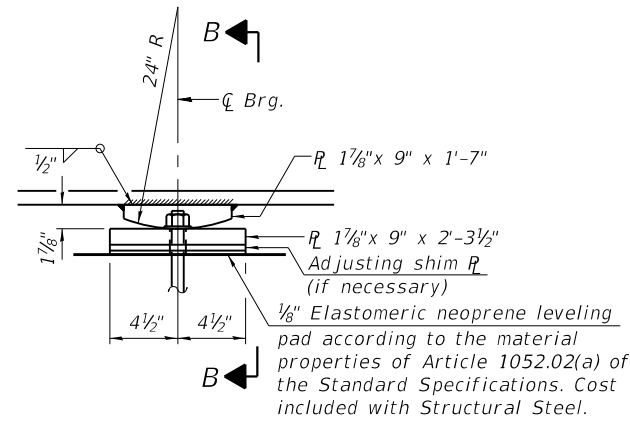
1/8" elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.

**ELEVATION**

**FIXED BEARING AT ABUTMENTS**  
 (6 at Each Abutment Required)

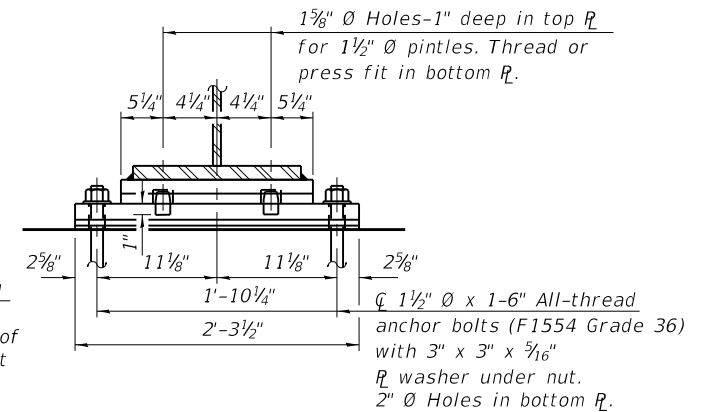


**SECTION A-A**

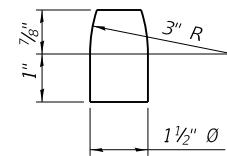


**ELEVATION**

**FIXED BEARING AT PIER**  
 (6 Required)



**SECTION B-B**



**PINTLE**

**Notes:**

Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

The structural steel plates and pintles of the bearings shall conform to the requirements of AASHTO M 270, Grade 50 W.

Anchor bolts at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

Beams shall be braced for stability during erection and remain braced until deck is poured and cured.

**BILL OF MATERIAL**

Item	Unit	Total
Anchor Bolts, 1 1/2"	Each	12
Anchor Bolts, 1"	Each	24

**Kaskaskia**  
 Engineering Group, LLC  
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 Moline, IL 61704  
 617.233.2877 phone  
 617.233.2977 fax  
 www.kaskaskiaeng.com

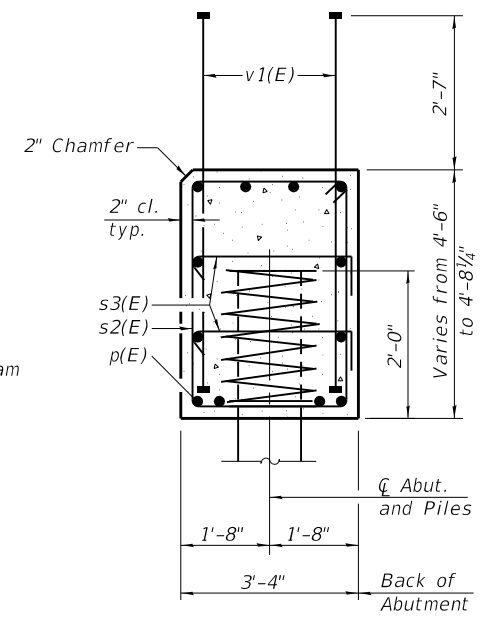
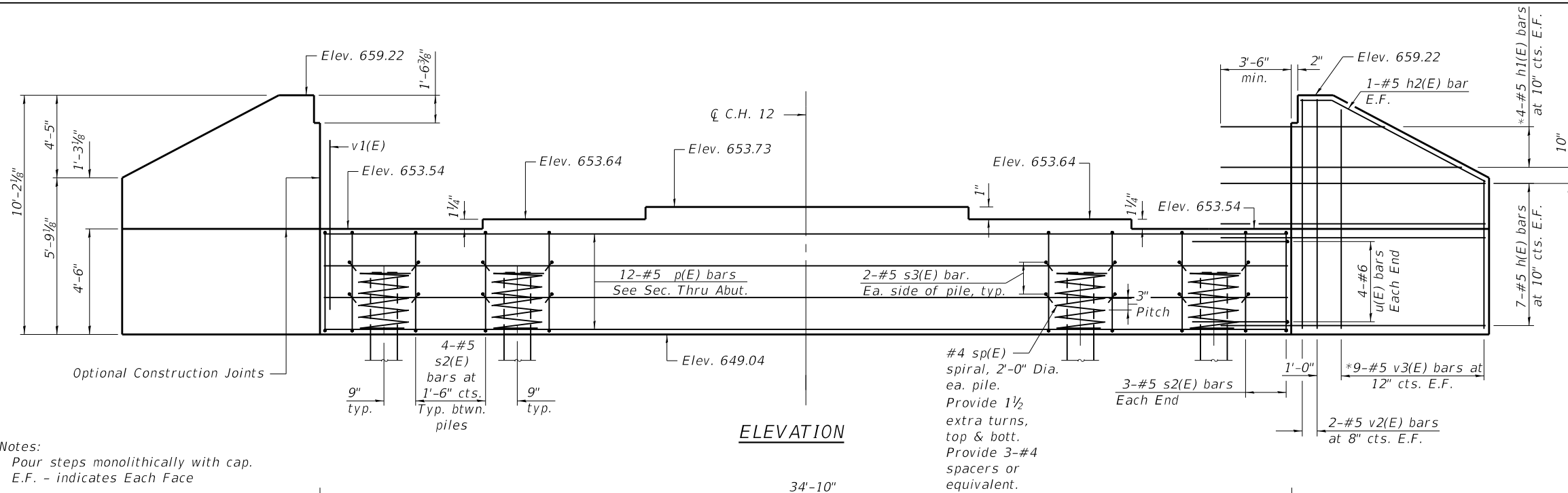
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CHECKED - BB	CHECKED - BB	REVISED -
DRAWN - RJO	DRAWN - RJO	REVISED -
CHECKED - BB	CHECKED - BB	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**BEARING DETAILS**  
**STRUCTURE NO. 010-0293**

SHEET 17 OF 24 SHEETS

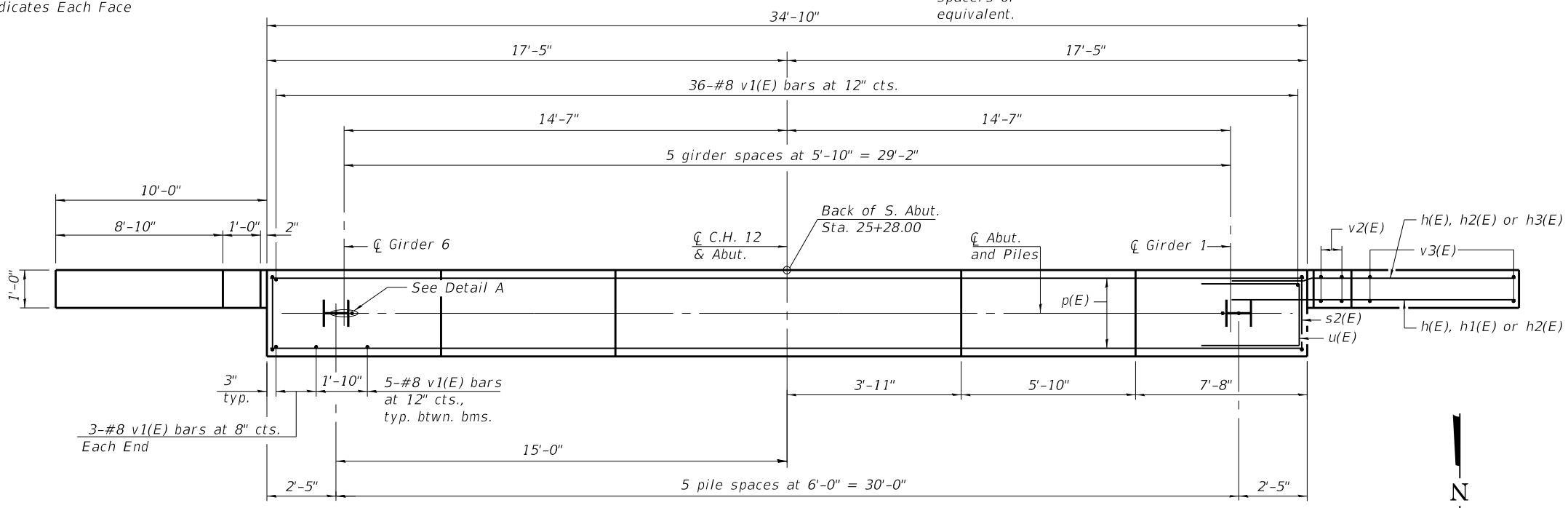
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	77-00089-01-BR-1	CHAMPAIGN	91	45
CONTRACT NO. 70616				
ILLINOIS FED. AID PROJECT				



Notes:  
 Pour steps monolithically with cap.  
 E.F. - indicates Each Face

**ELEVATION**

**SEC. THRU ABUT.**



**PLAN**

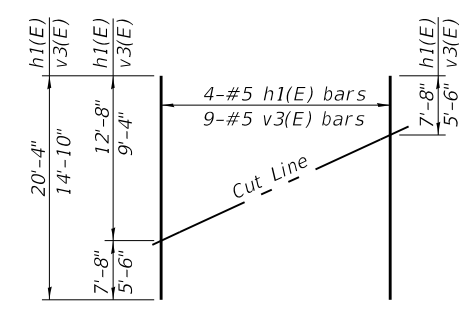
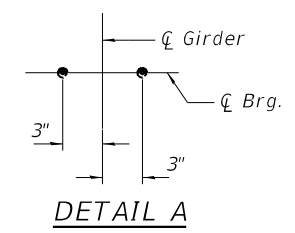
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	28	#5	13'-4"	—
h1(E)	8	#5	20'-4"	—
h2(E)	4	#5	10'-6"	—
p(E)	12	#5	34'-6"	—
s2(E)	26	#5	15'-3"	□
s3(E)	24	#5	4'-0"	⌋
sp(E)	6	#4	2'-0"	WWW
u(E)	8	#6	12'-8"	□
v1(E)	67	#8	6'-10"	—
v2(E)	8	#5	9'-10"	—
v3(E)	18	#5	14'-10"	—
Structure Excavation		Cu. Yd.	222	
Concrete Structures		Cu. Yd.	25.8	
Reinforcement Bars, Epoxy Coated		Pound	3,400	
Furnishing Steel		Foot	375	
Piles, HP 12 x 74		Foot	375	
Driving Piles		Foot	375	
Test Pile, HP 12 x 74		Each	1	
Pile Shoes		Each	6	

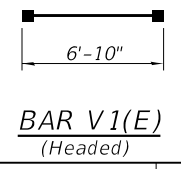
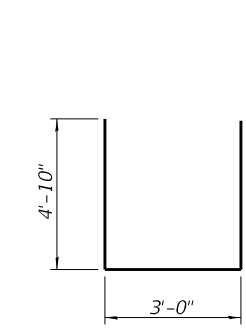
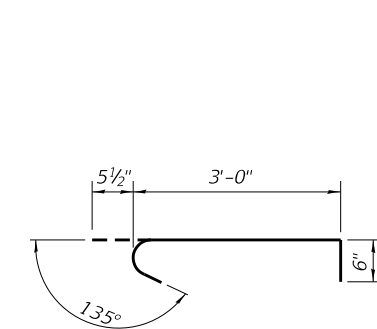
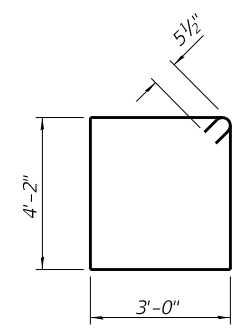
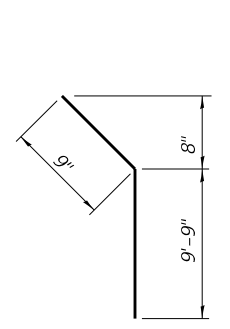
\*\* Length is height of spiral.  
 For details of piles see sheet 21 of 24.

**PILE DATA**

Type: HP 12 x 74 with Pile Shoes  
 Nominal Required Bearing: 402 K  
 Factored Resistance Available: 221 K  
 Est. Length: 75'  
 No. Production Piles: 5  
 No. Test Piles: 1



Order h1(E) and v3(E) full length. Cut as shown and use remainder of bars in opposite face.



STATE OF ILLINOIS  
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SOUTH ABUTMENT DETAILS  
 STRUCTURE NO. 010-0293

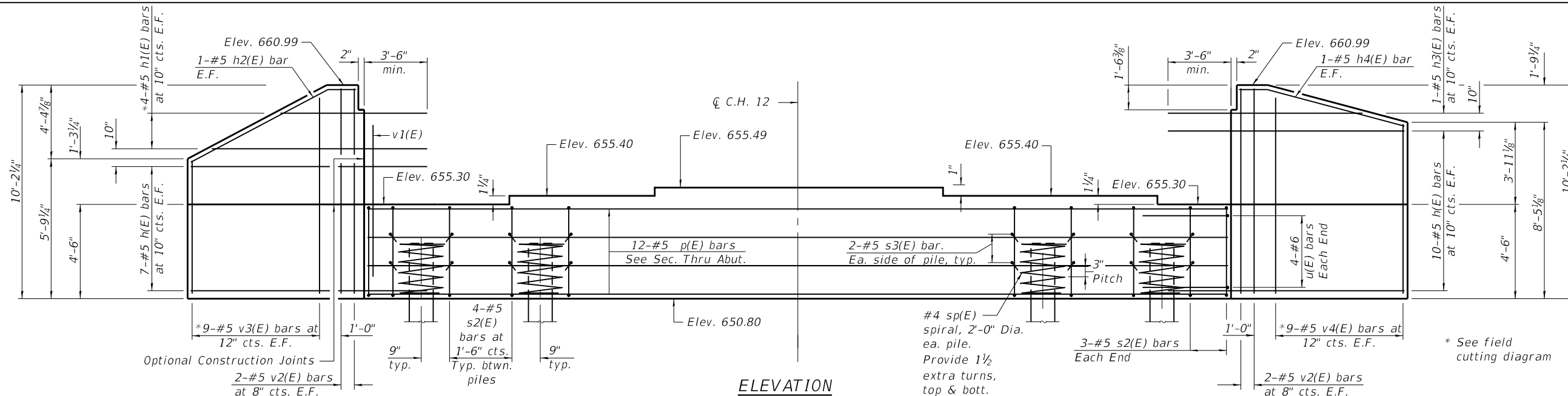
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	77-00089-01-BR-1	CHAMPAIGN	91	46

CONTRACT NO. 70616

MODEL: Default  
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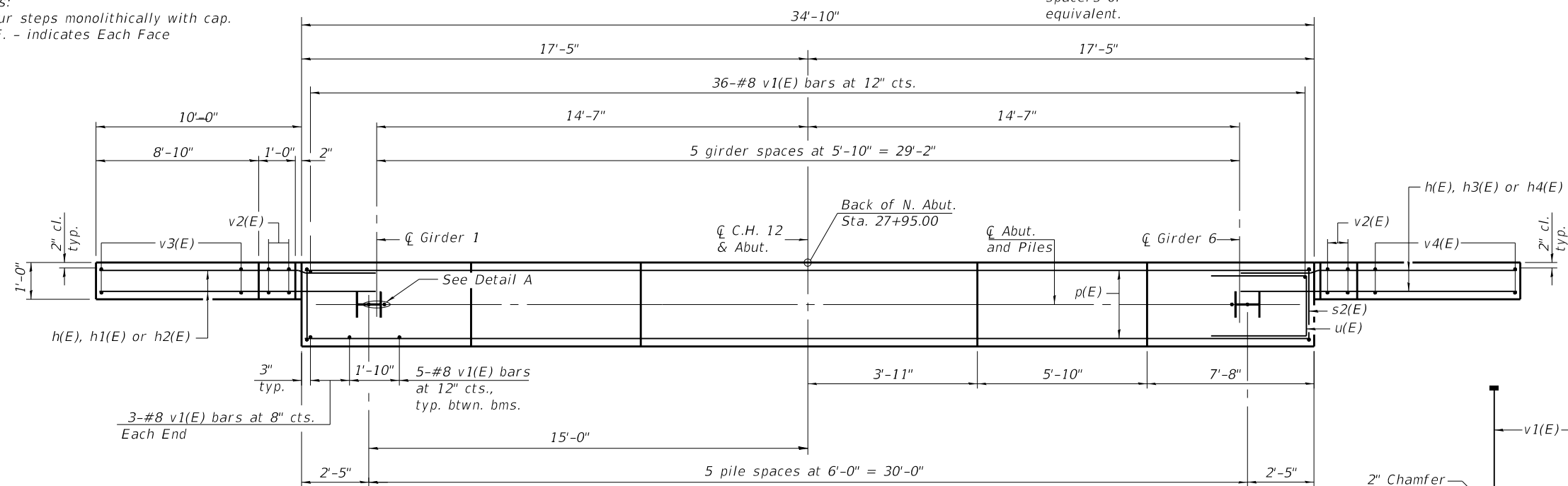
**Kaskaskia**  
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 Moline, IL 61401  
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 309.233.2877 fax  
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USER NAME =  
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 PLOT SCALE =  
 DRAWN - RJO  
 PLOT DATE =  
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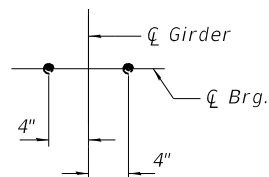
**ELEVATION**

Notes:  
 Pour steps monolithically with cap.  
 E.F. - indicates Each Face

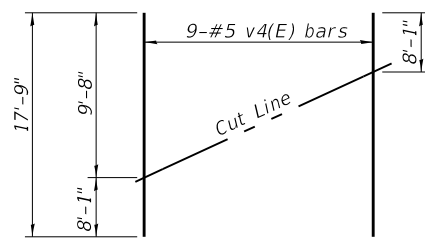


**PLAN**

**PILE DATA**  
 Type: HP 12 x 74 with Pile Shoes  
 Nominal Required Bearing: 589 K  
 Factored Resistance Available: 324 K  
 Est. Length: 68'  
 No. Production Piles: 5  
 No. Test Piles: 1

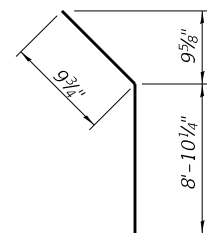


**DETAIL A**

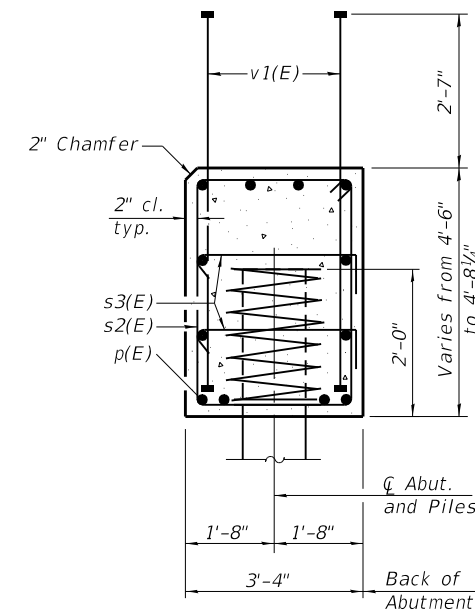


**FIELD CUTTING DIAGRAM**

Order v4(E) full length. Cut as shown and use remainder of bars in opposite face.



**BAR h4(E)**



**SEC. THRU ABUT.**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	34	#5	13'-4"	—
h1(E)	4	#5	20'-4"	—
h2(E)	2	#5	10'-6"	—
h3(E)	2	#5	12'-3"	—
h4(E)	2	#5	9'-8"	—
p(E)	12	#5	34'-6"	—
s2(E)	26	#5	15'-3"	□
s3(E)	24	#5	4'-0"	—
sp(E)	6	#4	2'-0"	⋄
u(E)	8	#6	12'-8"	—
v1(E)	67	#8	6'-10"	—
v2(E)	8	#5	9'-10"	—
v3(E)	18	#5	14'-10"	—
v4(E)	9	#5	17'-9"	—
Structure Excavation		Cu. Yd.	165	
Concrete Structures		Cu. Yd.	25.8	
Reinforcement Bars, Epoxy Coated		Pound	3,450	
Furnishing Steel Piles, HP 12 x 74		Foot	340	
Driving Piles		Foot	340	
Test Pile, HP 12 x 74		Each	1	
Pile Shoes		Each	6	

\*\* Length is height of spiral.  
 See sheet 18 of 23 for additional Bar Bend details.  
 For details of piles see sheet 21 of 24.

MODEL: Default  
 FILE NAME: P:\18-1038.04 St. Joseph Road over Salt Fork River\Structures\0100293-70616-019-North Abutment\_Details.dgn



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 20-088266

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	CHECKED - BB	REVISED -
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PLOT DATE =	CHECKED - BB	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**NORTH ABUTMENT DETAILS  
 STRUCTURE NO. 010-0293**

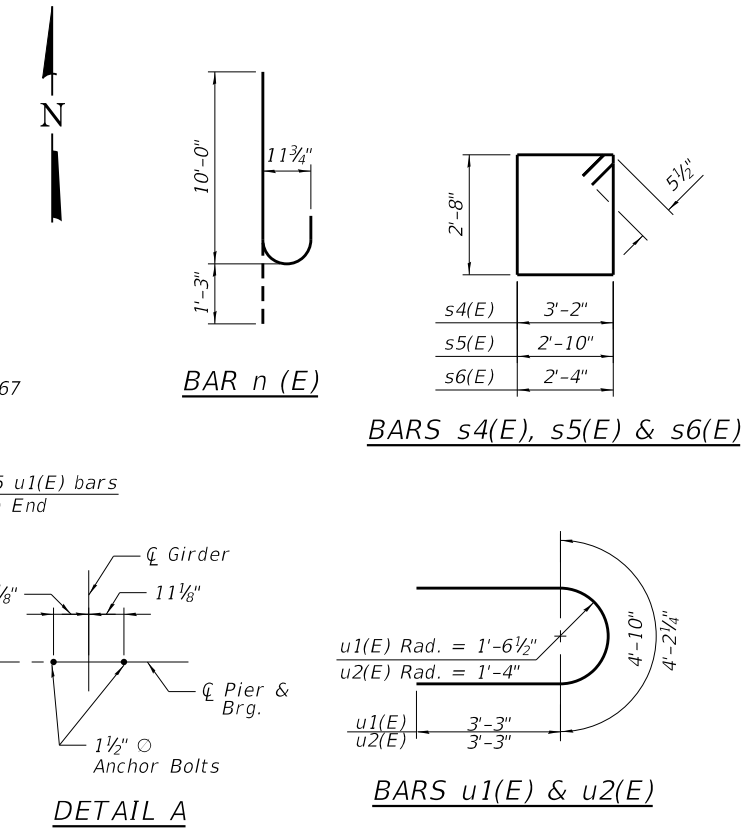
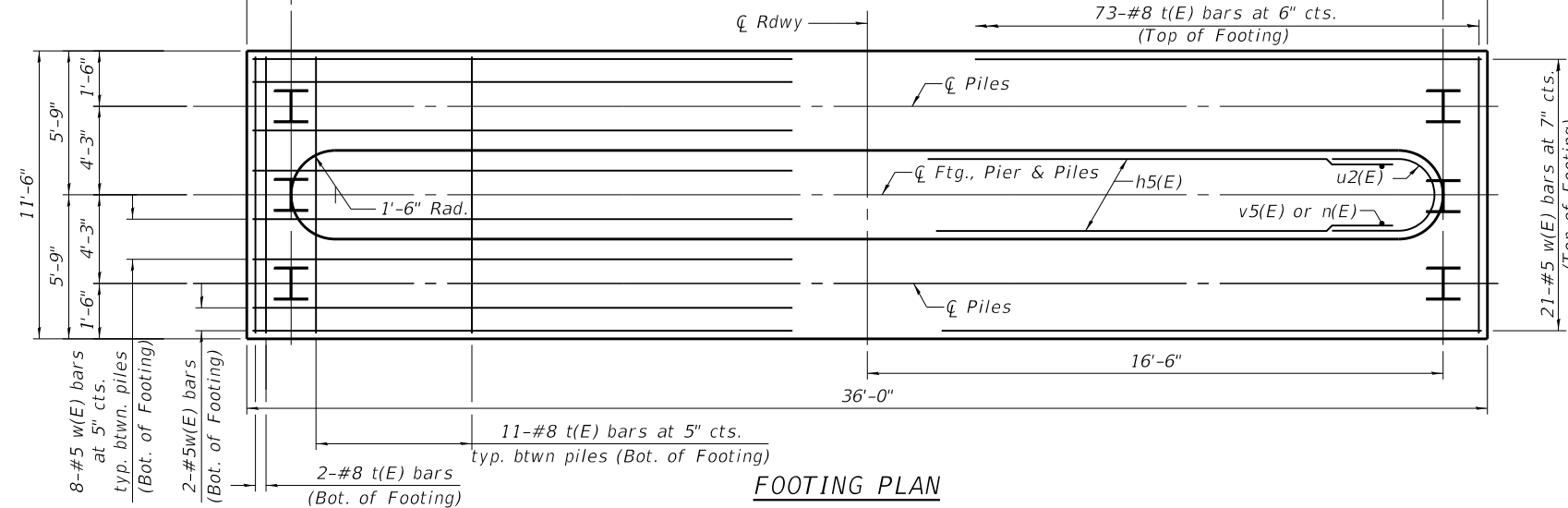
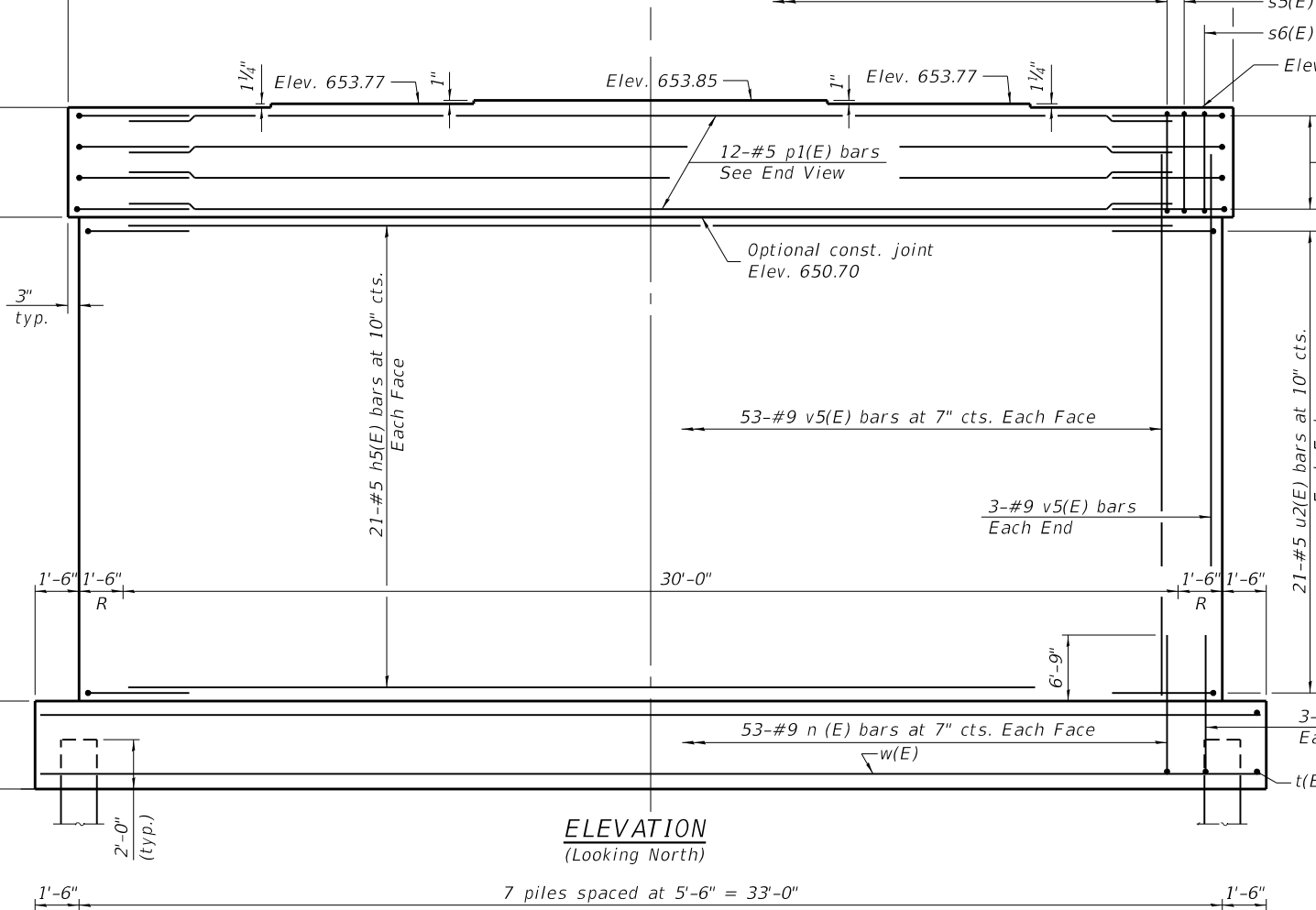
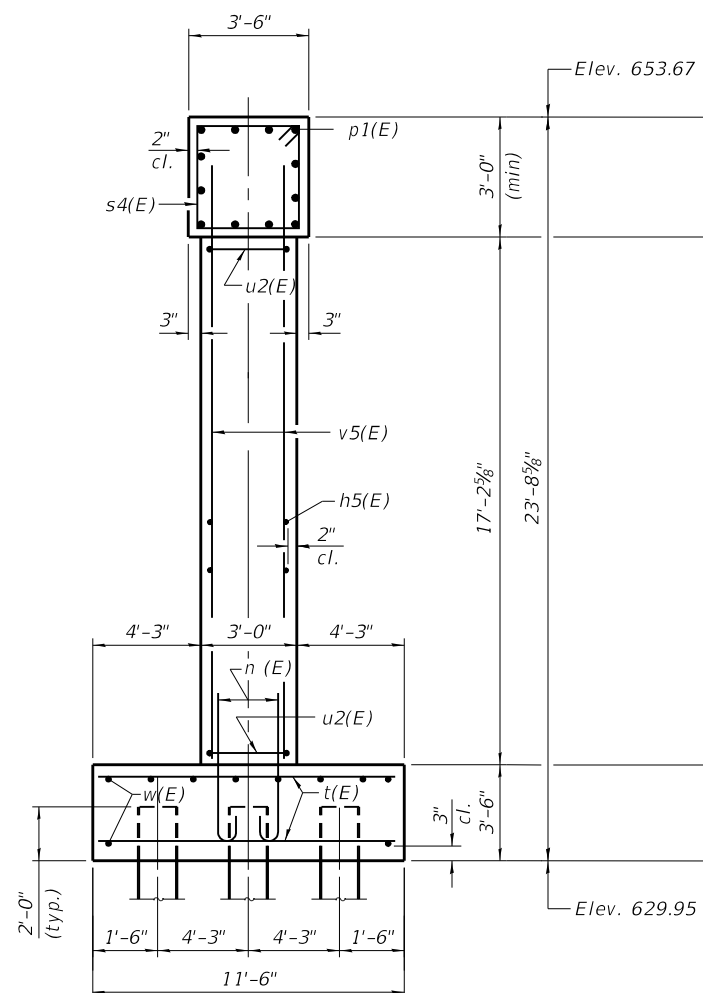
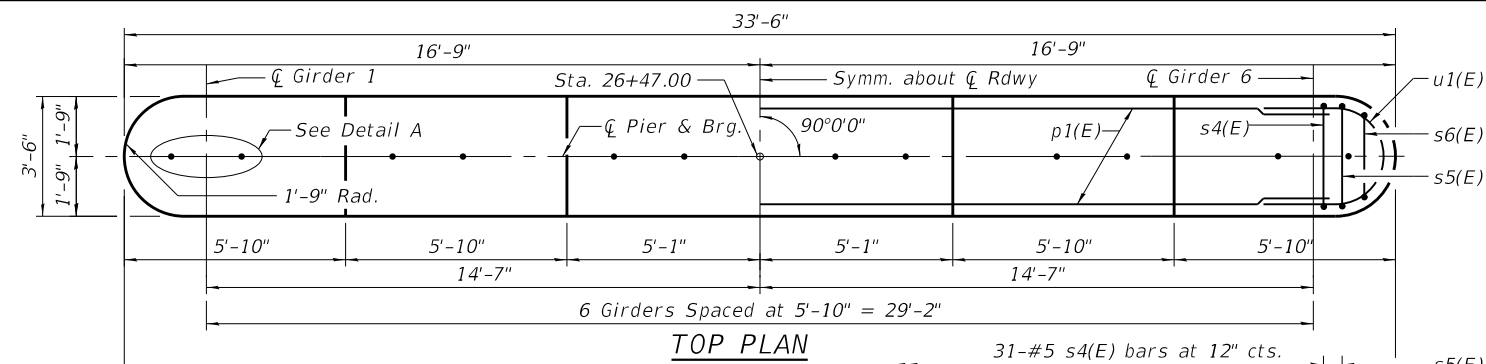
SHEET 19 OF 24 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	77-00089-01-BR-1	CHAMPAIGN	91	47
CONTRACT NO. 70616				
ILLINOIS FED. AID PROJECT				

Notes:  
 Space reinforcement in cap to miss anchor bolts.  
 Pour steps monolithically with cap.  
 For details of piles, see sheet 21 of 24.

**PILE DATA**

Type: HP12x74 with Pile Shoes  
 Nominal Required Bearing: 551 kips  
 Factored Resistance Available: 302 kips  
 Est. Length: 55'-0"  
 No. Production Piles: 20  
 No. Test Piles: 1



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
h5(E)	42	#5	30'-0"	—	
n(E)	112	#9	11'-3"	U	
p1(E)	12	#5	30'-0"	—	
s4(E)	31	#5	12'-7"	□	
s5(E)	2	#5	11'-11"	□	
s6(E)	2	#5	10'-11"	□	
t(E)	143	#8	11'-2"	—	
u1(E)	8	#5	11'-4"	U	
u2(E)	42	#5	10'-9"	U	
v5(E)	112	#9	18'-10"	—	
w(E)	41	#5	35'-8"	—	
Concrete Structures				Cu. Yd.	129.1
Reinforcement Bars, Epoxy Coated				Pound	19,960
Furnishing Steel Piles, HP 12 x 73				Foot	1100
Driving Piles				Foot	1100
Test Pile, HP 12 x 73				Each	1
Pile Shoes				Each	21
Cofferdam Excavation				Cu. Yd.	685.1
Seal Coat Concrete Cofferdam (Type 2) (Location 1)				Cu. Yd.	140.5
				Each	1

MODEL: Default  
 FILE NAME: P:\18-1038.04 St. Joseph Road over Salt Fork River\Structures\0100293-70616-020-Pier\_1\_Details.dgn

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USER NAME =	DESIGNED - MC	REVISED -
PLOT SCALE =	CHECKED - BB	REVISED -
PLOT DATE =	DRAWN - RJO	REVISED -
	CHECKED - BB	REVISED -

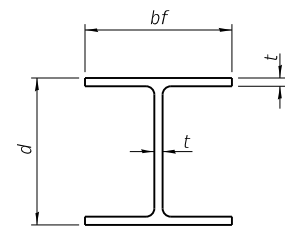
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**PIER 1 DETAILS**  
**STRUCTURE NO. 010-0293**

SHEET 20 OF 24 SHEETS

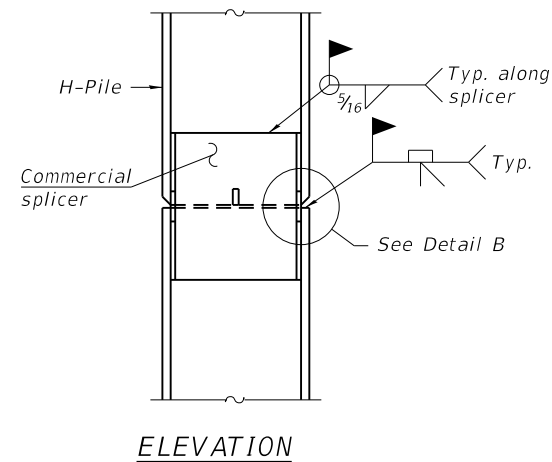
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	77-00089-01-BR-1	CHAMPAIGN	91	48
CONTRACT NO. 70616				
ILLINOIS FED. AID PROJECT				



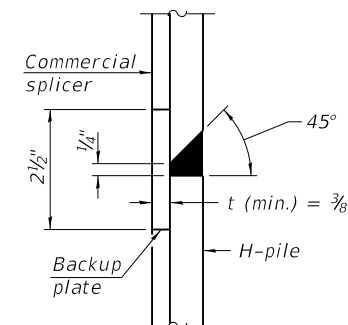


**STEEL PILE TABLE**

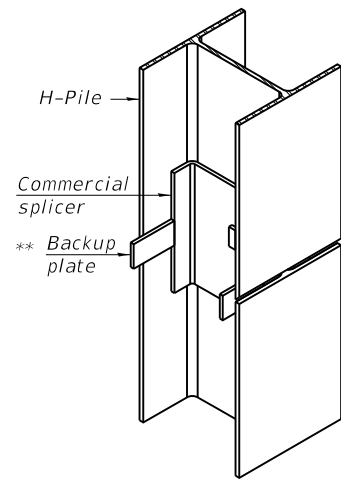
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 3/8"	14 3/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



**ELEVATION**

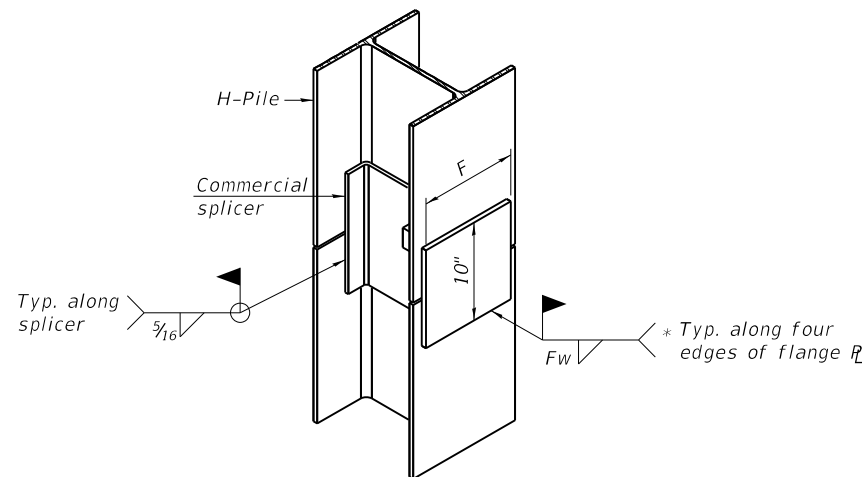


**DETAIL "B"**



**ISOMETRIC VIEW**

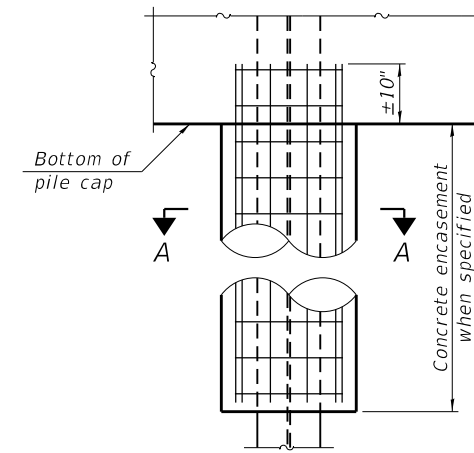
**WELDED COMMERCIAL SPLICE**



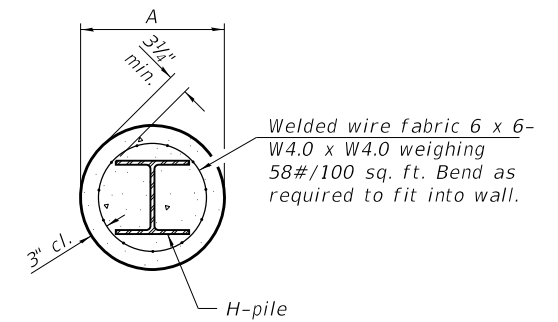
**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE ALTERNATE**

- \* Interrupt welds 1/4" from end of web and/or each flange.
- \*\* Remove portions of backup plates that extend outside the flanges.
- \*\*\* Weld size per pile shoe manufacturer (5/16" min.).

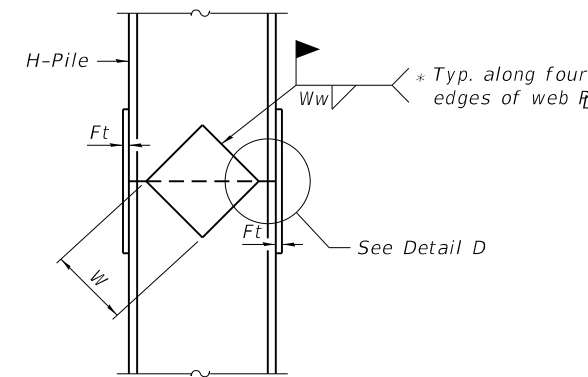


**ELEVATION**

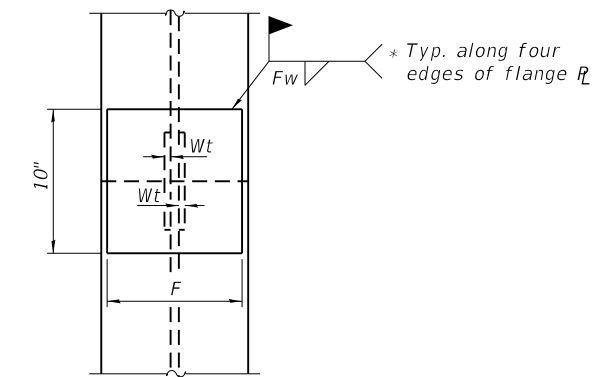


**SECTION A-A**

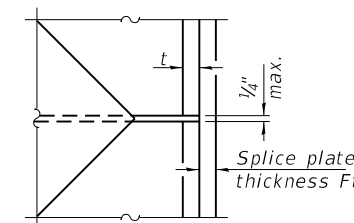
**INDIVIDUAL PILE CONCRETE ENCASUREMENT**  
 (Forms for encasement may be omitted when soil conditions permit).



**ELEVATION**



**END VIEW**



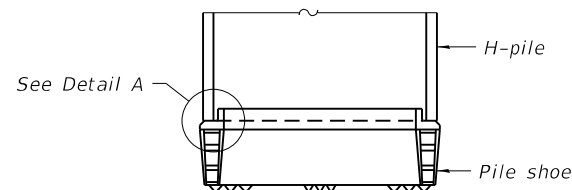
**DETAIL D**

**WELDED PLATE FIELD SPLICE**

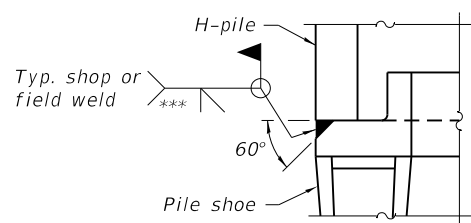
Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

Note:  
 The steel H-piles shall be according to AASHTO M270 Grade 50.

**SHOE ATTACHMENT**



**ELEVATION**



**DETAIL A**

MODEL: Default  
 FILE NAME: P:\18-1038.04 St. Joseph Road over Salt Fork River\Structures\0100293-70616-021-Pile\_Splicing\_Details.dgn

F-HP 2-17-2017



USER NAME	DESIGNED	REVISION
= MC	- MC	-
= BB	- BB	-
= RJO	- RJO	-
= BB	- BB	-

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**PILE SPLICING DETAILS  
 STRUCTURE NO. 010-0293**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	77-00089-01-BR-1	CHAMPAIGN	91	49
CONTRACT NO. 70616				
ILLINOIS FED. AID PROJECT				



# SOIL BORING LOG

Date 6/27/18

ROUTE FAS 516 (CH 12) DESCRIPTION Salt Fork over C.H. 12 just NE of Sidney LOGGED BY RBK

SECTION 77-00089-01-BR-1 LOCATION NW, SEC. 10, TWP. 18N, RNG. 10E, 3<sup>rd</sup> PM, GPS: 40.032820, -88.061980

COUNTY Champaign DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 010-0090  
Station 26+87.5

BORING NO. 1 SW Boring  
Station 25+16  
Offset 10.50ft Lt.  
Ground Surface Elev. 657.41 ft

DEPTH (ft)	SPT (blows)	UCS (tsf)	MOISTURE (%)	SOIL DESCRIPTION	DEPTH (ft)	SPT (blows)	UCS (tsf)	MOISTURE (%)
657.41				Asphalt Pavement				
656.41				Brown to Red/Brown Sandy Clay Loam (Embankment)				
	3			Fine Gray Sand (continued)				
	4		15					
	3			Clay Loam Till (Drilled Rough)				
	5	2.1	13					
	3	B						
	2							
	3	0.5	13					
	2	B						
	5	0.9	20					
	3	B						
	4							
	3	0.9	24					
	4	B		(Drove Sampler on Boulder)				
641.41	2			Fine Brown Sand				
	2		22					
	2							
638.41	2			Fine Gray Sand				
	2							
	7							
					617.41	16	B	12

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)



# SOIL BORING LOG

Date 6/27/18

ROUTE FAS 516 (CH 12) DESCRIPTION Salt Fork over C.H. 12 just NE of Sidney LOGGED BY RBK

SECTION 77-00089-01-BR-1 LOCATION NW, SEC. 10, TWP. 18N, RNG. 10E, 3<sup>rd</sup> PM, GPS: 40.032820, -88.061980

COUNTY Champaign DRILLING METHOD Hollow Stem Auger HAMMER TYPE Automatic

STRUCT. NO. 010-0090  
Station 26+87.5

BORING NO. 1 SW Boring  
Station 25+16  
Offset 10.50ft Lt.  
Ground Surface Elev. 657.41 ft

DEPTH (ft)	SPT (blows)	UCS (tsf)	MOISTURE (%)	SOIL DESCRIPTION	DEPTH (ft)	SPT (blows)	UCS (tsf)	MOISTURE (%)
				Gray Sandy Clay Loam Till (Very Hard)				
	34							
	22		7					
	17							
	22							
	47		8					
	50-5"							
	50-1"							
			9					
599.41				Dark Gray Sandy Clay Loam Till				
	18							
	23		11					
	27							
					597.41			

End of Boring  
The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)  
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)  
BBS, from 137 (Rev. 8-99)

MODEL: Default  
FILE NAME: P:\18-1038.04 St. Joseph Road over Salt Fork River\Structures\0100293-70616-022-Boring\_Data.dgn

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Engineering Group, LLC  
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11/27/2013  
618.233.2877  
20-088596

USER NAME =	DESIGNED - MC	REVISED -
CHECKED - BB	CHECKED - BB	REVISED -
PLOT SCALE =	DRAWN - RJO	REVISED -
PLOT DATE =	CHECKED - BB	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

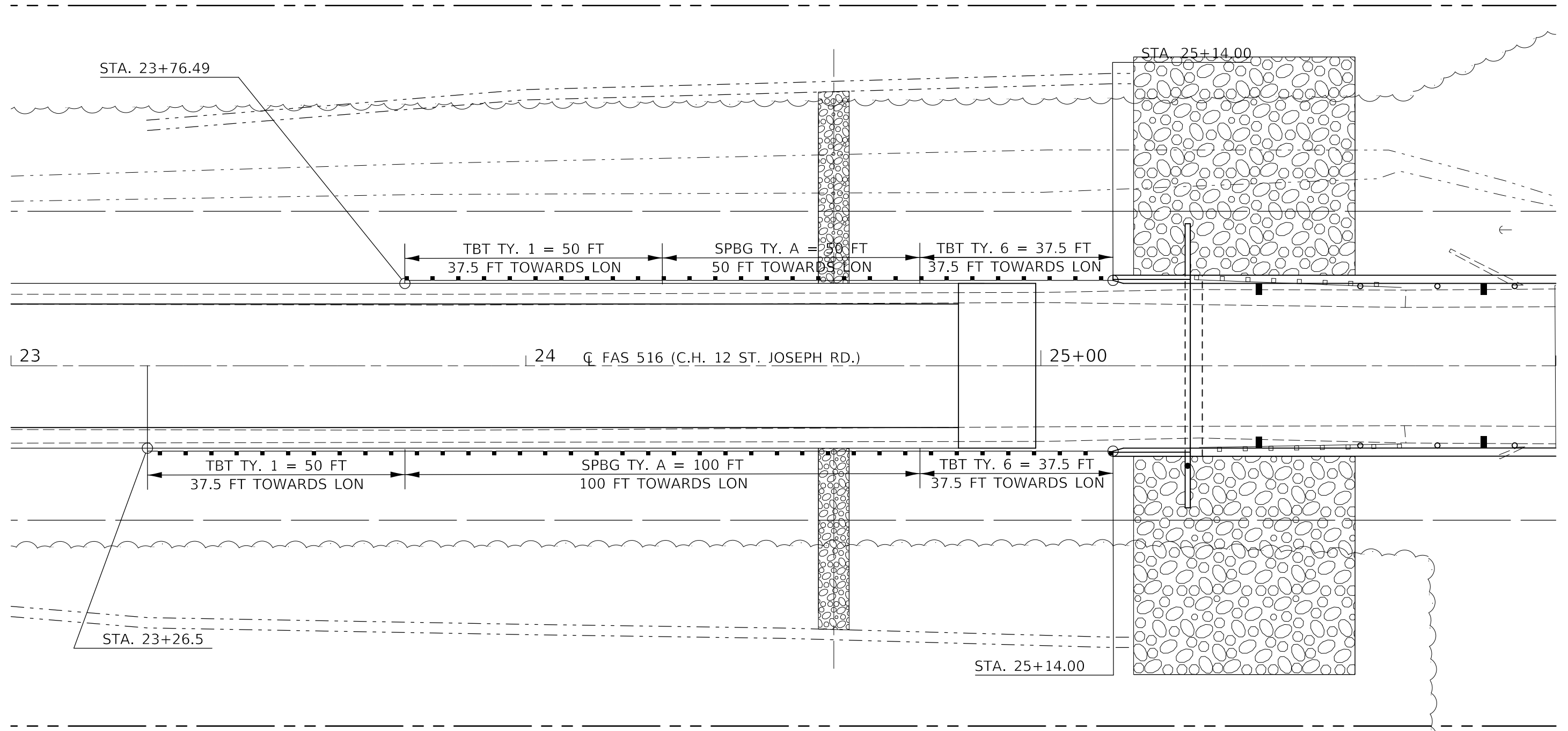
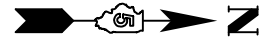
BORING DATA  
STRUCTURE NO. 010-0293  
SHEET 22 OF 24 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	77-00089-01-BR-1	CHAMPAIGN	91	50
CONTRACT NO. 70616				
ILLINOIS FED. AID PROJECT				









TBT TY. 1 = 50 FT  
37.5 FT TOWARDS LON

SPBG TY. A = 100 FT  
100 FT TOWARDS LON

TBT TY. 6 = 37.5 FT  
37.5 FT TOWARDS LON

LON VALUES	
LON	= 583.6 FT
L1	= 168.3 FT
L2	= 295.0 FT
L3	= 120.2 FT

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 FILE: MHFE.dwg  
 PROJECT: 0570616\CADD\Drawings\DOT Office\Detail\516\516-Sub-Detail\Guardrail\_Detail.dwg

USER NAME = PiersonTJ	DESIGNED -	REVISED -
PLOT SCALE = 20.0000 ' / in.	DRAWN -	REVISED -
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	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

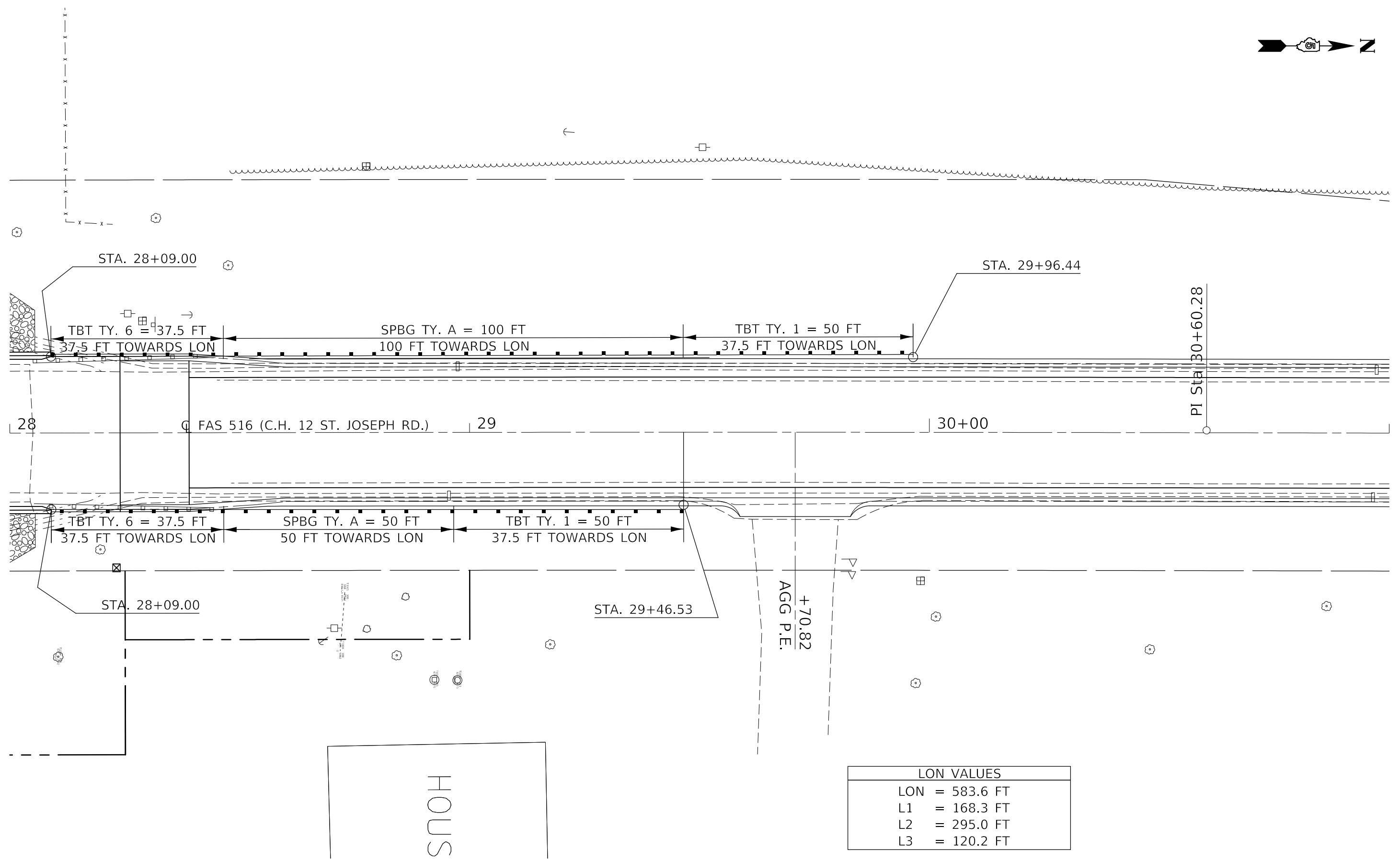
**S.N. 010-0293  
GUARDRAIL DETAIL**

SCALE: 1" = 10'    SHEET 1    OF 2    SHEETS    STA.    TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	54
CONTRACT NO. 70616				

ILLINOIS FED. AID PROJECT

\*77-00089-01-BR-1



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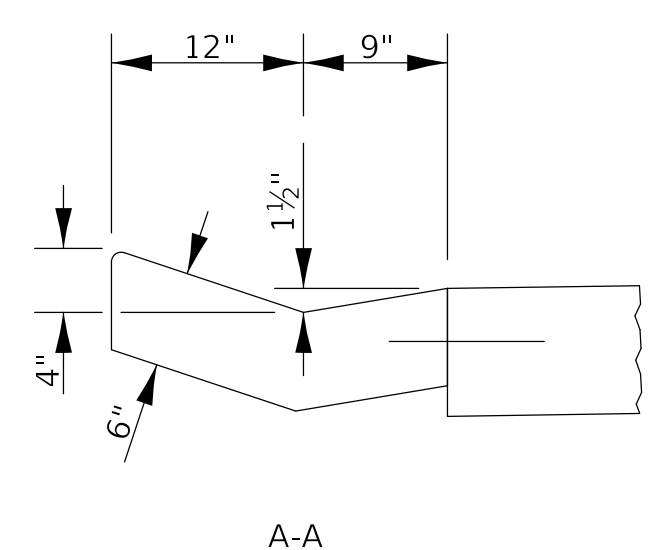
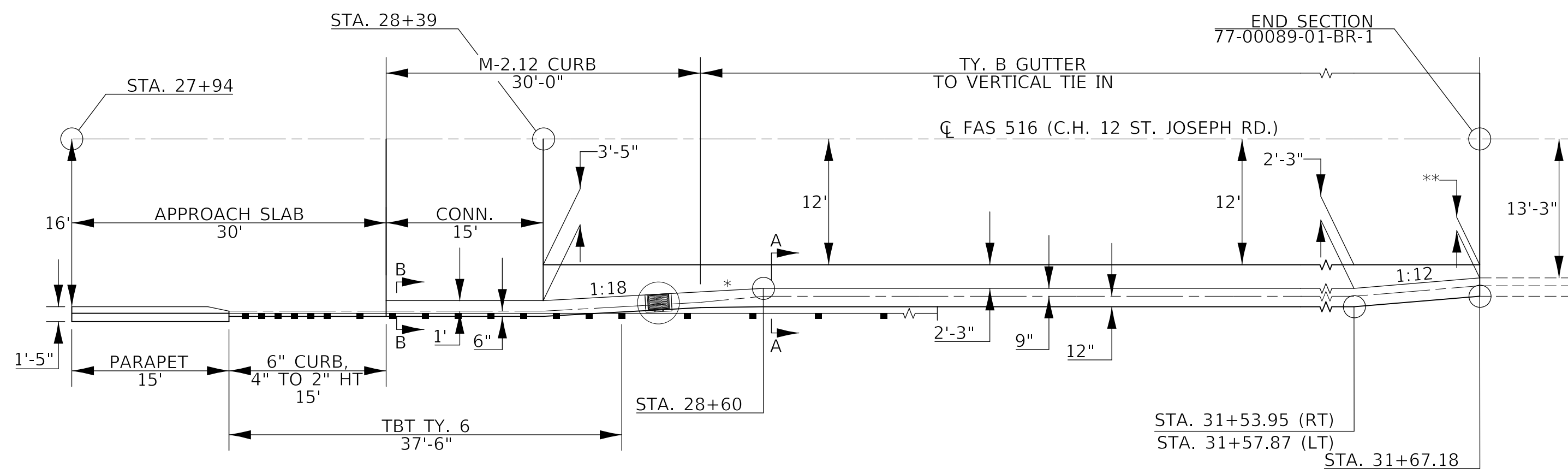
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	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

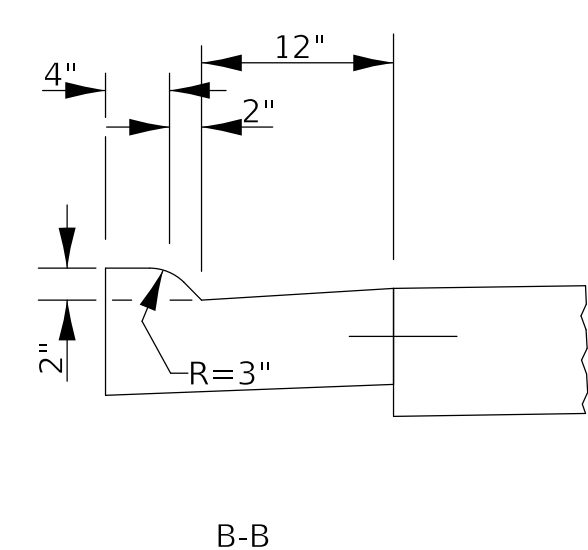
<b>S.N. 010-0293</b> <b>GUARDRAIL DETAIL</b>			
SCALE: 1" = 10'	SHEET 2	OF 2 SHEETS	STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	55
CONTRACT NO. 70616				
ILLINOIS FED. AID PROJECT				

\*77-00089-01-BR-1



A-A



B-B

\* 6 LENGTH USED FOR TRANSITION BETWEEN CURB AND GUTTER TYPES

\*\* VAR., FIELD VERIFY DISTANCE FROM PROPOSED 12' LANE TO THE EXISTING EDGE OF GUTTER

MODEL: \\MODEL\MAR\F...  
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	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/5/2020	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>C.H. 12 (ST. JOSEPH RD.)</b> <b>GUTTER TRANSITION DETAIL</b>			
SCALE: N.T.S.	SHEET 1 OF 1 SHEETS	STA.	TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	56
CONTRACT NO. 70616				
ILLINOIS FED. AID PROJECT				

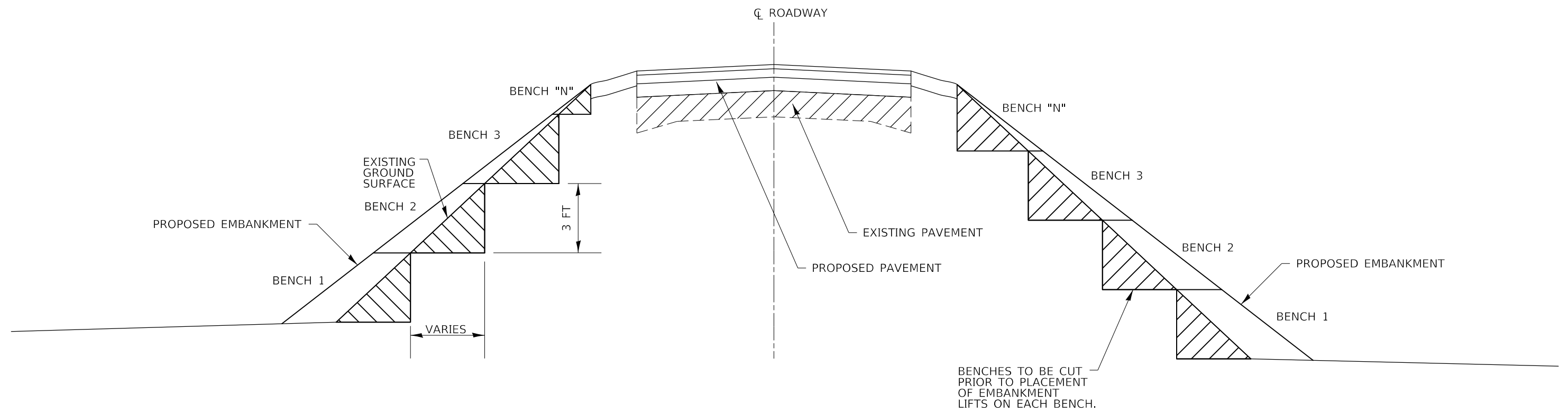
\*77-00089-01-BR-1



NOTES:  
 COST OF SOIL BENCHING INCLUDED IN THE COST OF 20400800  
 FURNISHED EXCAVATION.

EMBANKMENT SHALL BE BROUGHT UP BY STAGE ALONG WITH THE  
 BENCHING AND COMPACTED PARALLEL TO THE BENCHES.

THE MOISTURE CONTENT OF THE MATERIAL IS HIGHER THAN  
 OPTIMUM AND WILL NEED DRIED BY SPREADING AND DISKING  
 PRIOR TO USE.



**EXISTING SLOPE SOIL BENCHING DETAIL**

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	DRAWN -	REVISED -
PLOT SCALE = 40,0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/5/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SOIL BENCHING**

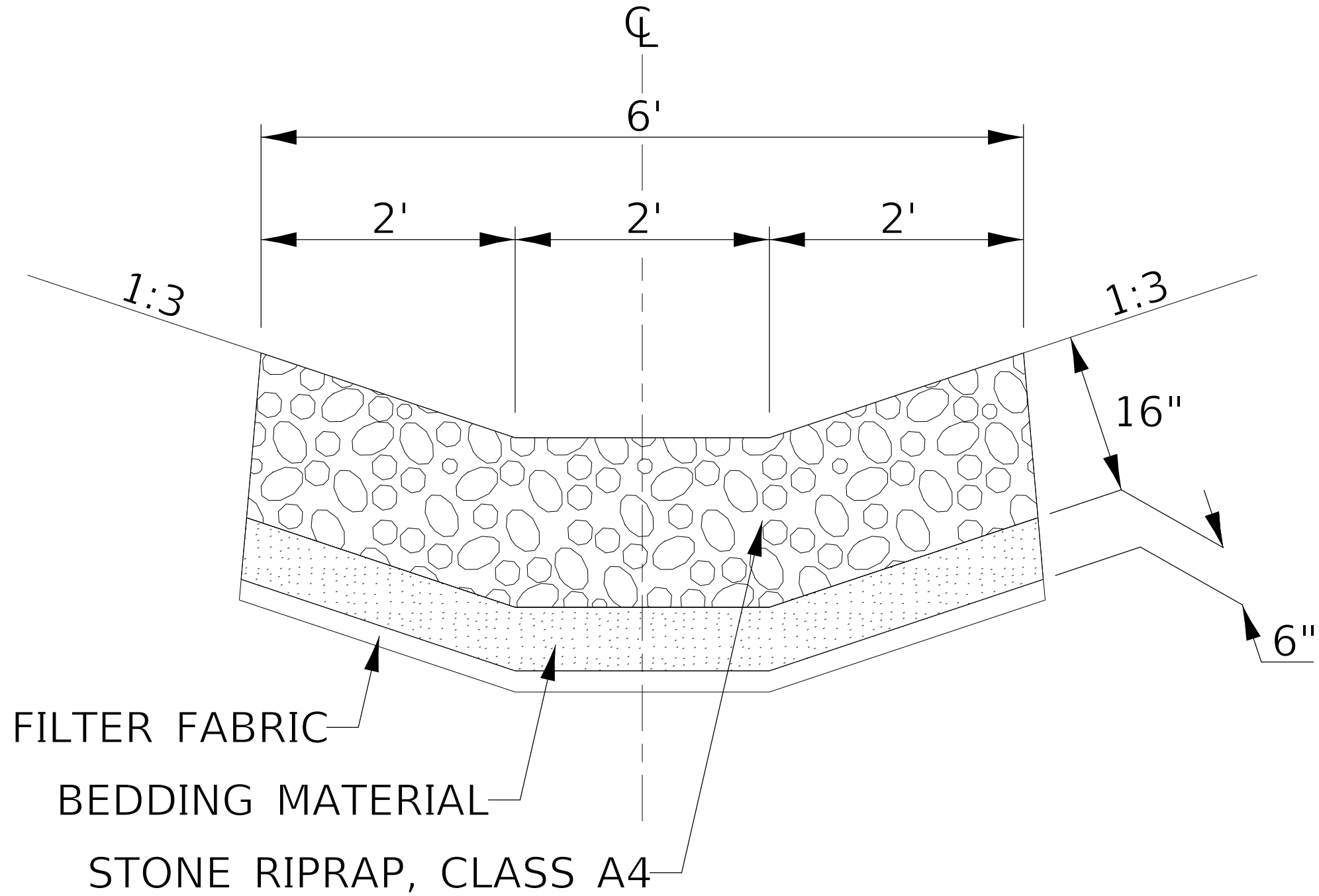
SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	57
			CONTRACT NO. 70616	

ILLINOIS FED. AID PROJECT

\*77-00089-01-BR-1

STA. 24+60



MODEL: s:\MODEL\MHFE  
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 PROJECT: 516  
 DRAWING: 516-91-58  
 DATE: 8/5/2020

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	DRAWN -	REVISED -
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PLOT DATE = 8/5/2020	DATE -	REVISED -

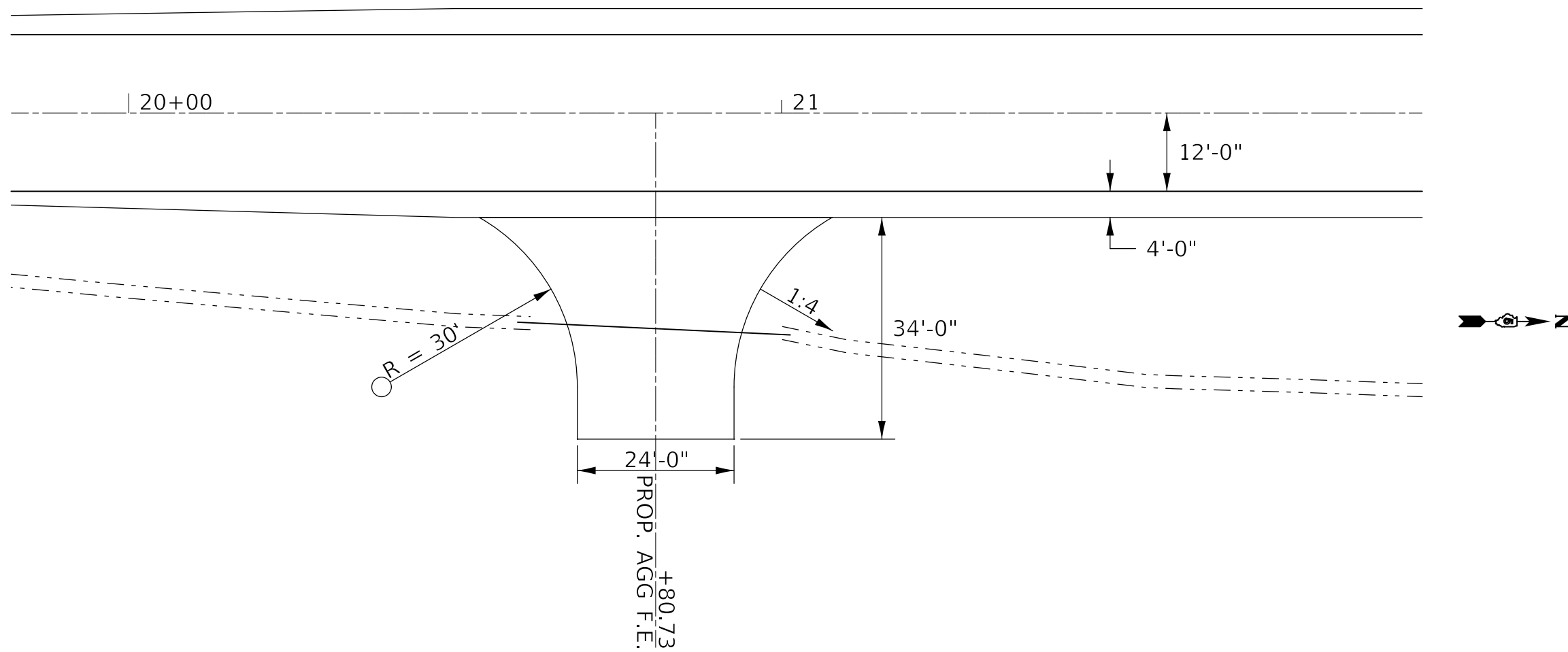
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>STONE RIPRAP, CLASS A4 DETAIL</b>			
SCALE: N.T.S.	SHEET 1	OF 1	SHEETS
STA.	TO STA.		

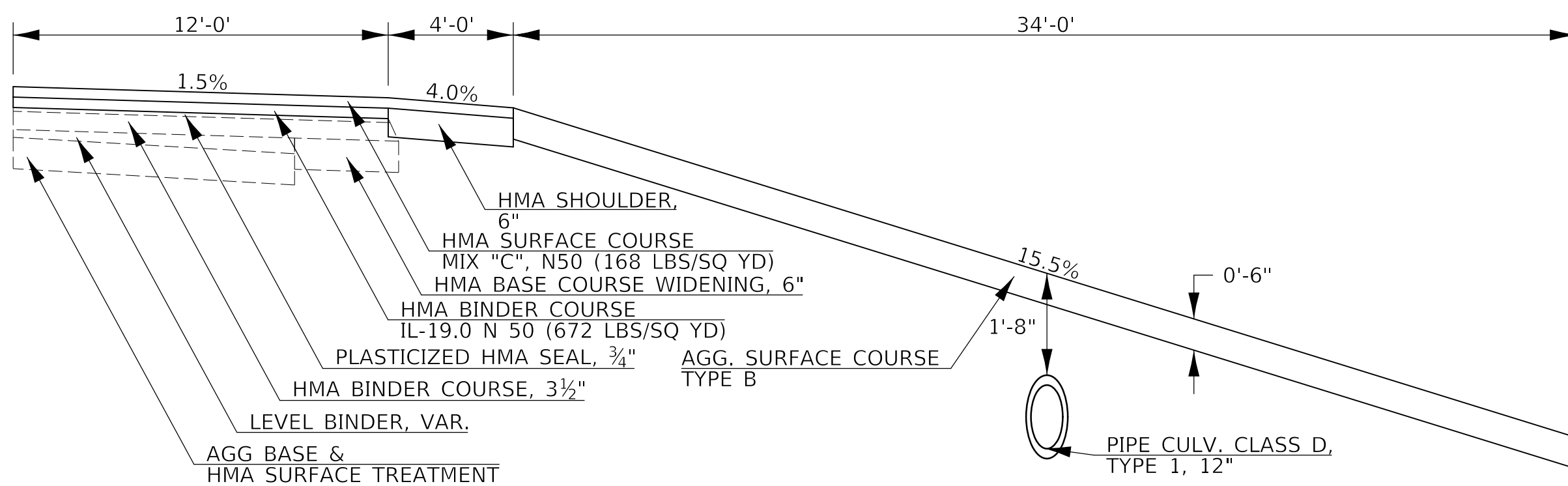
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	58
CONTRACT NO. 70616				
ILLINOIS FED. AID PROJECT				

\*77-00089-01-BR-1

# PLAN VIEW



# PROFILE VIEW



USER NAME = PiersonTJ	DESIGNED -	REVISED -
PLOT SCALE = 20,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 8/5/2020	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

FIELD ENTRANCE AT  
STA. 20+80.73 DETAIL

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

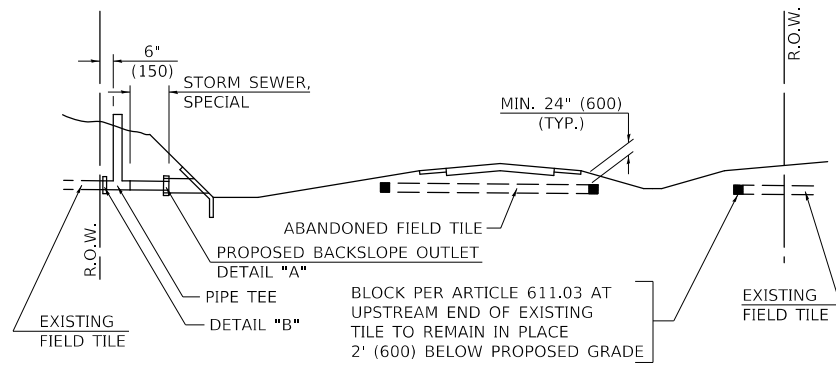
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	59
CONTRACT NO. 70616				

ILLINOIS FED. AID PROJECT

\*77-00089-01-BR-1

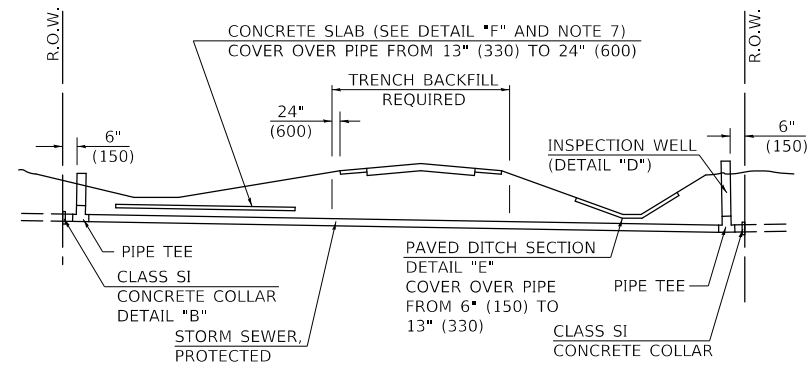
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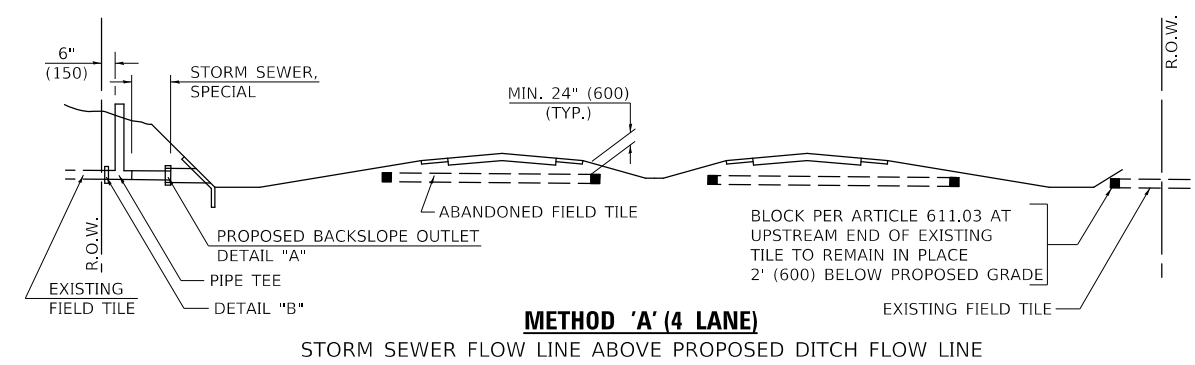
**METHOD 'A' (2 LANE)**

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE



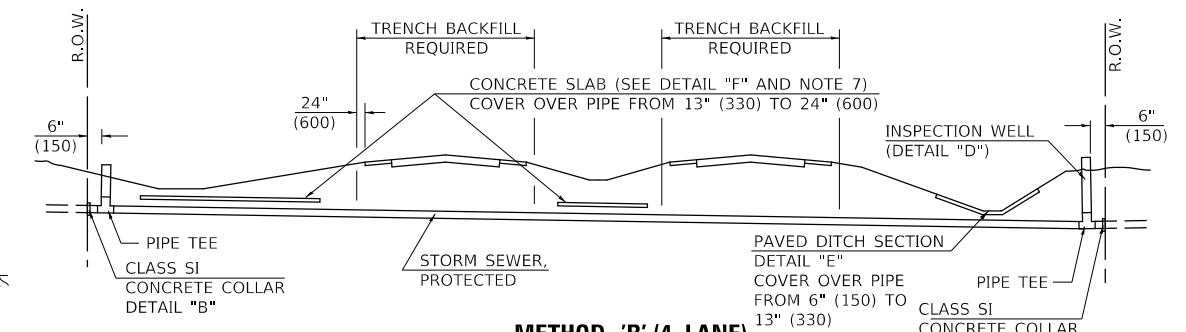
**METHOD 'B' (2 LANE)**

STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENT AND PAVED DITCH



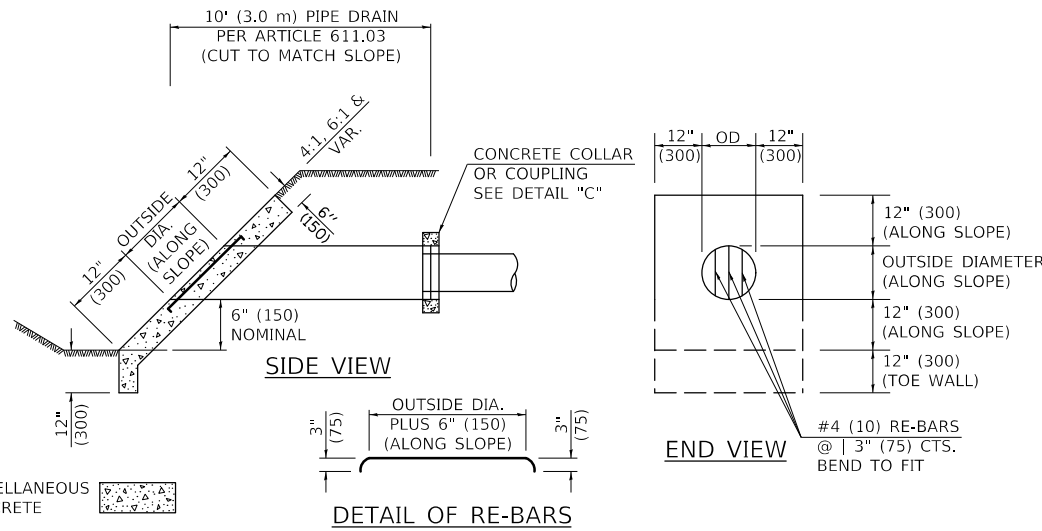
**METHOD 'A' (4 LANE)**

STORM SEWER FLOW LINE ABOVE PROPOSED DITCH FLOW LINE



**METHOD 'B' (4 LANE)**

STORM SEWER LESS THAN 2' (600 mm) BELOW DITCH FLOW LINE AND STORM SEWERS CROSSING UNDER PAVEMENTS AND PAVED DITCHES

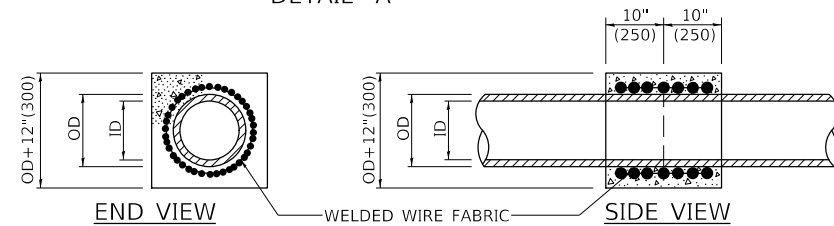


**SIDE VIEW**

**END VIEW**

**DETAIL OF RE-BARS**

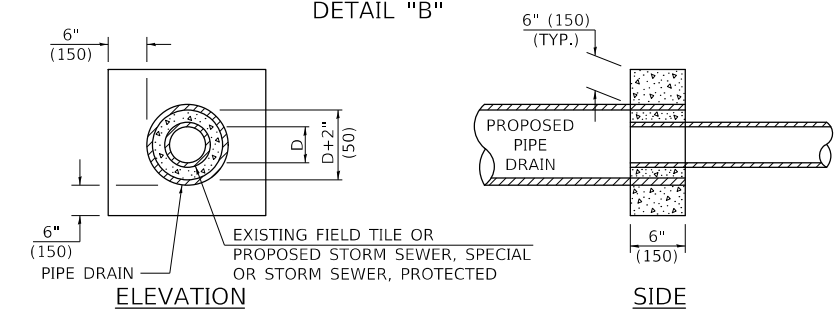
**HEADWALL FOR BACKSLOPE OUTLET  
DETAIL "A"**



**END VIEW**

**SIDE VIEW**

**CONCRETE COLLAR  
DETAIL "B"**



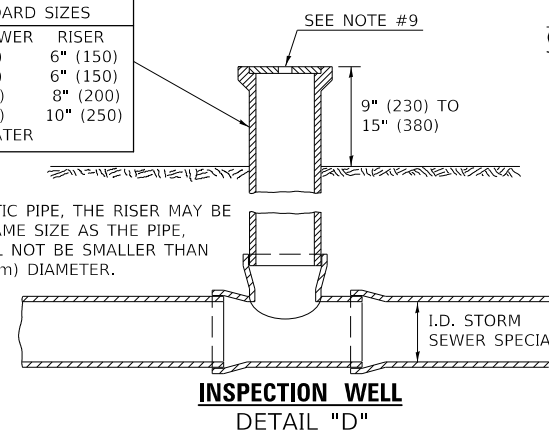
**ELEVATION**

**SIDE**

**CLASS SI COLLAR  
DETAIL "C"**

CONCRETE PIPE STANDARD SIZES	
STORM SEWER	RISER
6" (150)	6" (150)
8" (200)	6" (150)
10" (250)	8" (200)
12" (300)	10" (250)
OR GREATER	OR GREATER

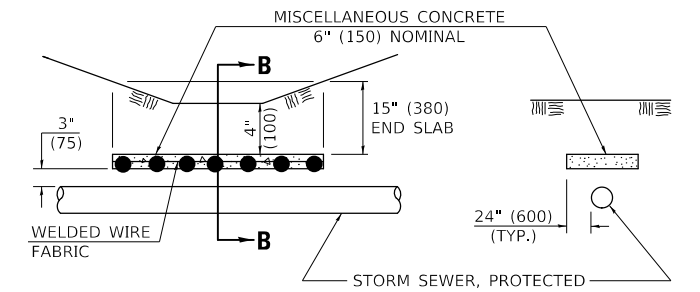
FOR PLASTIC PIPE, THE RISER MAY BE OF THE SAME SIZE AS THE PIPE, BUT SHALL NOT BE SMALLER THAN 4" (100 mm) DIAMETER.



**INSPECTION WELL  
DETAIL "D"**

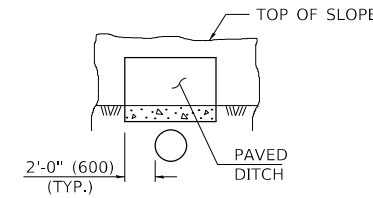
**GENERAL NOTES**

- EXISTING FIELD TILE ENCOUNTERED BY EXPLORATION TRENCH SHALL BE INSPECTED BY THE ENGINEER FOR UNOBSTRUCTED FLOW WITHIN THE LIMITS OF THE RIGHT-OF-WAY.
- ONLY FIELD TILE THAT DOES NOT HAVE SATISFACTORY FLOW AND OR HAS VISIBLE SIGNS OF DETERIORATION (SINK HOLES, ETC.) SHALL BE REPLACED WITHIN THE LIMITS OF THE RIGHT-OF-WAY IN ACCORDANCE WITH METHOD "B".
- INSPECTION WELLS SHALL BE CONSTRUCTED APPROXIMATELY 6" (150 mm) INSIDE OF BOTH RIGHT-OF-WAY LINES AT ALL FIELD TILE LOCATIONS.
- EXISTING FIELD TILE ABANDONED UNDER EXISTING PAVEMENTS OR PAVED SHOULDERS SHALL BE FILLED WITH FLOWABLE GROUT AS DIRECTED BY THE ENGINEER. THIS WORK WILL BE PAID FOR ACCORDING TO ARTICLE 109.04.
- NON-CIRCULAR FIELD TILE SHALL BE REPLACED WITH STORM SEWER, SPECIAL OF AT LEAST THE SAME CROSS SECTIONAL AREA. ALL EXISTING FIELD TILE SHALL BE REPLACED WITH STORM SEWER OF THE TYPE REQUIRED FOR THE MINIMUM DEPTH OF COVER.
- THE 6" (150 mm) CONCRETE SLAB OR DITCH LINING SHALL BE POURED THE LENGTH OF THE TRENCH AT ALL DITCH FLOW LINE LOCATIONS WITHIN THE RIGHT-OF-WAY WITH LESS THAN 2' (600 mm) OF EARTH COVER. MISCELLANEOUS CONCRETE SHALL BE USED ACCORDING TO SECTION 611.
- ALL MISCELLANEOUS SLABS, APRONS AND DITCH LININGS SHALL BE REINFORCED WITH WELDED WIRE FABRIC AS SHOWN FOR PAVED DITCH IN STANDARD 606401.
- HEADWALL FOR BACKSLOPE OUTLET MAY BE USED FOR PIPE DRAIN DIAMETERS UP TO 10" (250 mm). SPECIAL DESIGNS WILL BE REQUIRED FOR LARGER SIZES.
- THE INSPECTION WELL LID FOR P.C.C. PIPE SHALL BE CONSTRUCTED OF 3/8" (10 mm) CAST IRON AND PROVIDED WITH A 1" (25 mm) DIAMETER HOLE IN CENTER. THE LID FOR THE OTHER PIPE MATERIALS SHALL BE A GRATE ASSEMBLY PREFABRICATED FOR AND COMPATIBLE WITH THE PIPE SYSTEM.



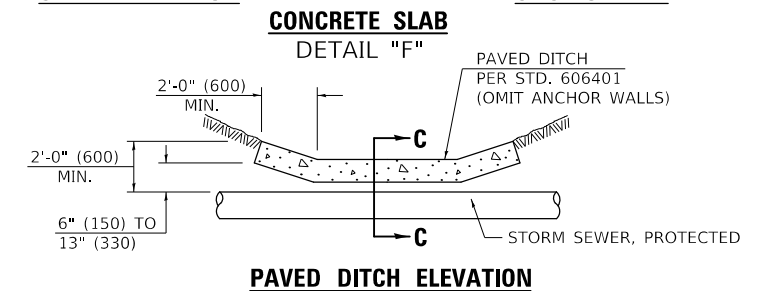
**SLAB ELEVATION**

**SECTION B-B**



**SECTION C-C**

**PAVED DITCH  
DETAIL "E"**



**CONCRETE SLAB  
DETAIL "F"**

**PAVED DITCH ELEVATION**

Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 5 DETAIL NO. 61101011A**

USER NAME = PiersonTJ	DESIGNED -	REVISED - 11/06
	DRAWN -	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/5/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**FIELD TILE SYSTEMS (TREATMENT OF EXISTING)**

SCALE: N.T.S. SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	61
CONTRACT NO. 70616				
ILLINOIS FED. AID PROJECT				

\*77-00089-01-BR-1

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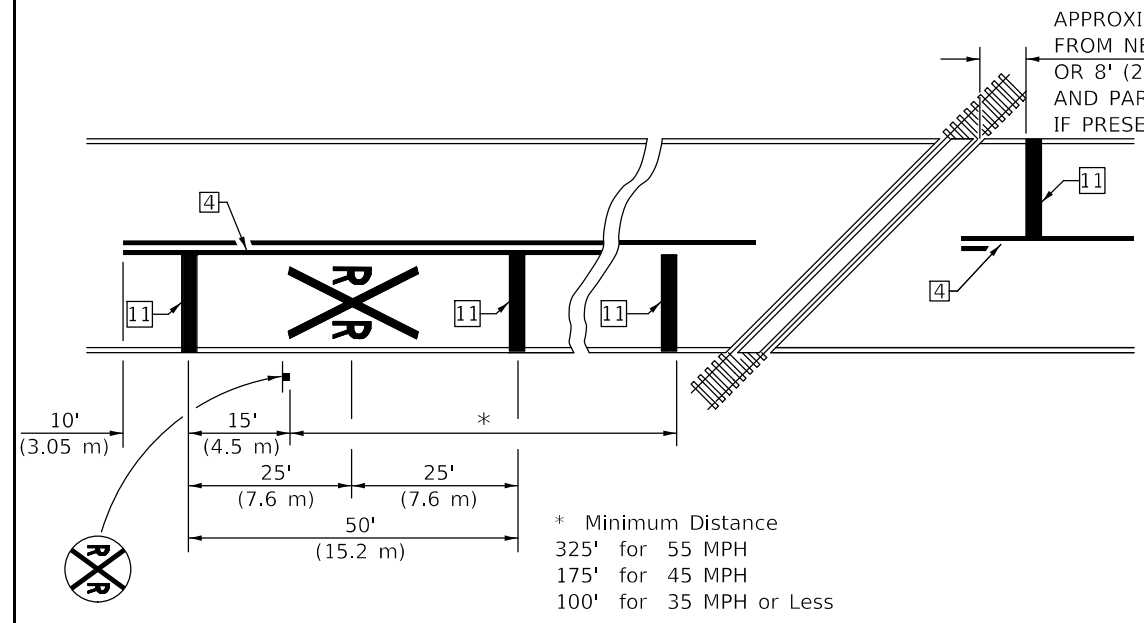




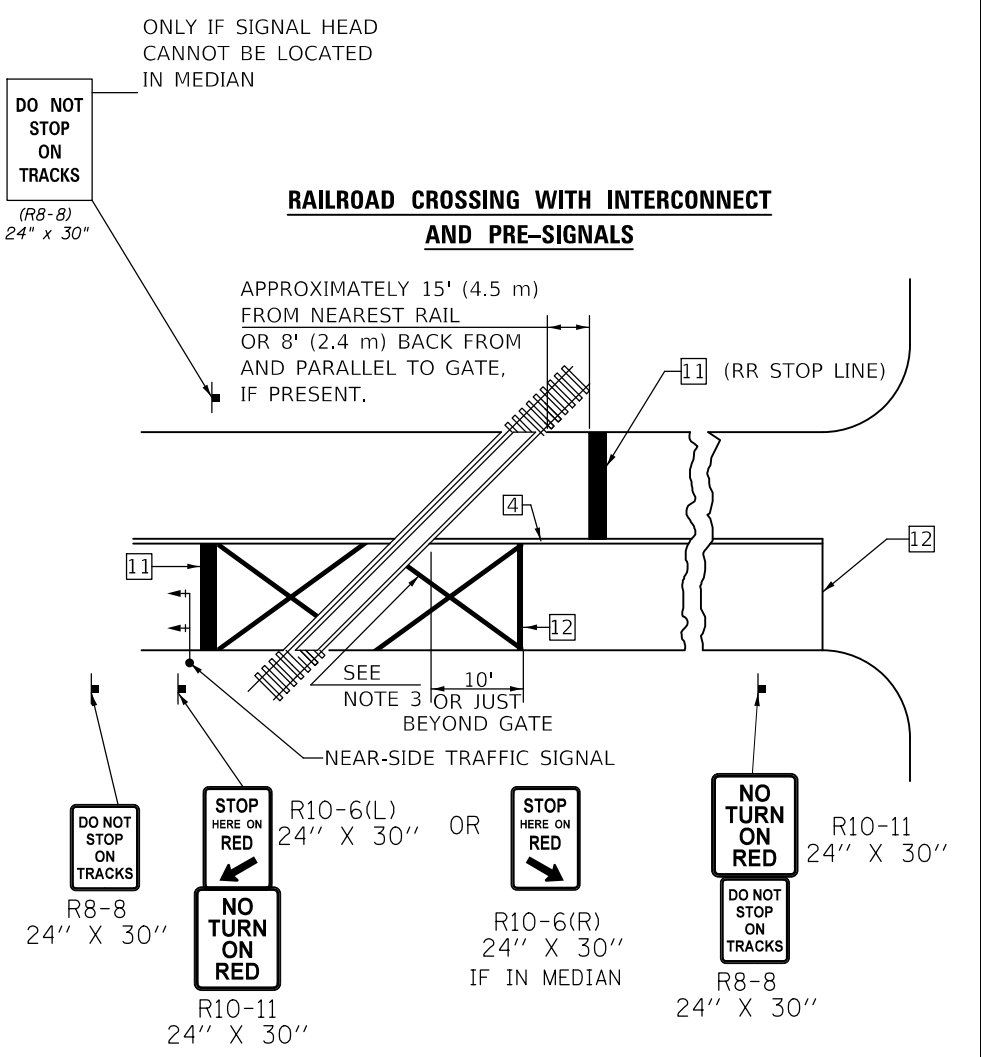
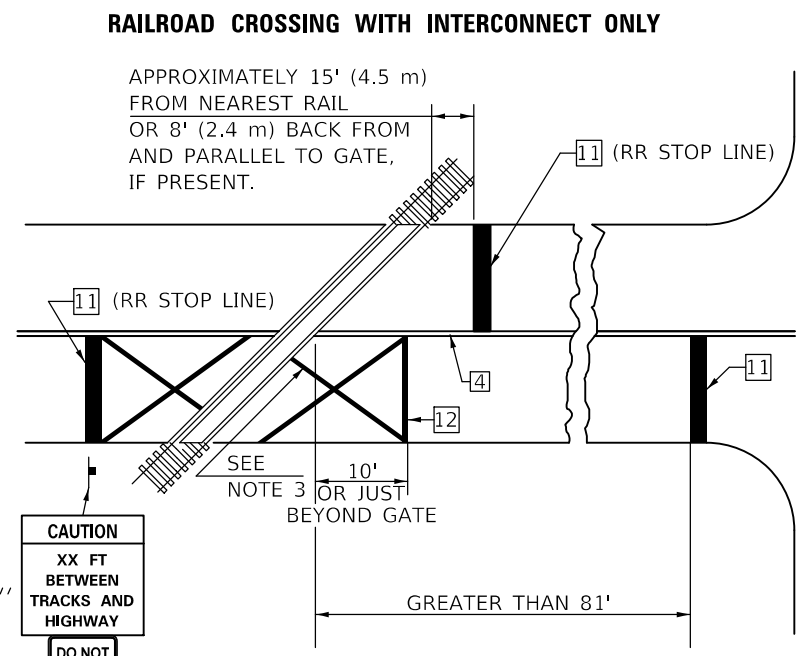




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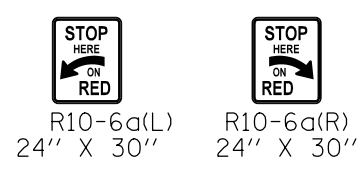


**PAVEMENT MARKINGS AT RAILROAD-HIGHWAY GRADE CROSSING**



**SUPPLEMENTAL PAVEMENT MARKING TREATMENT FOR RAILROAD-HIGHWAY GRADE CROSSING**

**ALTERNATE SIGNS**

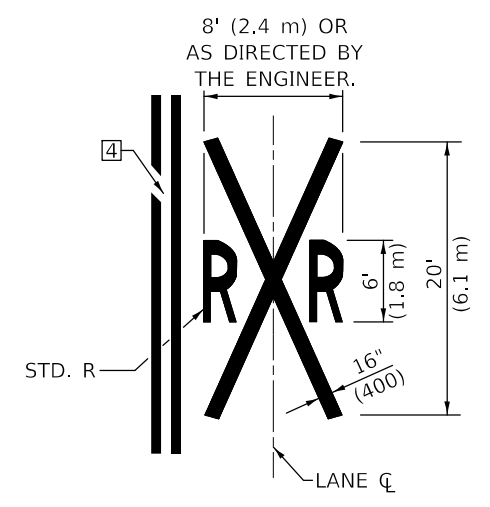


**NOTES**

- THE TRAVERSE SPREAD OF THE "X" MAY VARY ACCORDING TO LANE WIDTH.
- ON MULTI-LANE ROADS, THE STOP LINES SHALL EXTEND ACROSS ALL APPROACH LANES AND SEPARATE RXR SYMBOLS SHALL BE PLACED ADJACENT TO EACH OTHER IN EACH LANE.
- WHEN THE PAVEMENT MARKING SYMBOL IS USED, A PORTION OF THE SYMBOL SHOULD BE LOCATED DIRECTLY ADJACENT TO THE ADVANCE WARNING SIGN (W10-1) AS PLACED BY TABLE II-1, CONDITION B OF THE MUTCD.

**GENERAL NOTES**

- SUPPLEMENTAL PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- EXTEND PAVEMENT MARKINGS TO THE INTERSECTION ONLY WHERE NEAR-SIDE TRAFFIC SIGNALS ARE USED.
- 6" WHITE PAVEMENT MARKINGS AT 45° TO PAVEMENT, 8' CENTER TO CENTER.
- XX DISTANCE TO BE SHOWN ON SIGN MEASURED FROM A POINT 6 FEET FROM THE RAIL CLOSEST TO THE INTERSECTION OR FROM THE CLOSEST POINT ALONG THE EXIT GATE IF PRESENT OVER THE ROADWAY WHEN IN THE LOWERED POSITION TO THE STOP BAR OR CROSSWALK, WHICH EVER IS CLOSEST, ROUNDED DOWN TO NEAREST 5 FEET. WHERE THERE IS NO STOP LINE, MEASURE TO POINT WHERE DRIVER HAS A VIEW OF APPROACHING TRAFFIC.
- THE CLEARANCE SIGN IS ALSO TO BE USED AS AN INTERIM MEASURE AT LOCATIONS WITH INTERCONNECTED INTERSECTION TRAFFIC SIGNALS WHERE IT IS PLANNED TO CHANGE THEM TO NEAR-SIDE SIGNALS AT A FUTURE TIME. IN THIS CASE, THE DISTANCE TO BE SHOWN ON THE SIGN IS MEASURED FROM THE EDGE OF THE STRIPED-OUT AREA INSTEAD OF 6 FEET FROM THE RAIL. THE SIGN IS TO BE REMOVED WHEN THE NEAR-SIDE SIGNALS ARE INSTALLED AND THE PAVEMENT MARKINGS EXTENDED TO THE INTERSECTION.



Note: All dimensions are in INCHES (millimeters) unless otherwise shown.

**DISTRICT 5 DETAIL NO. 7800AAAA**

USER NAME = PiersonTJ	DESIGNED -	REVISED - 11/06
	DRAWN -	REVISED - 9/2009 KJT
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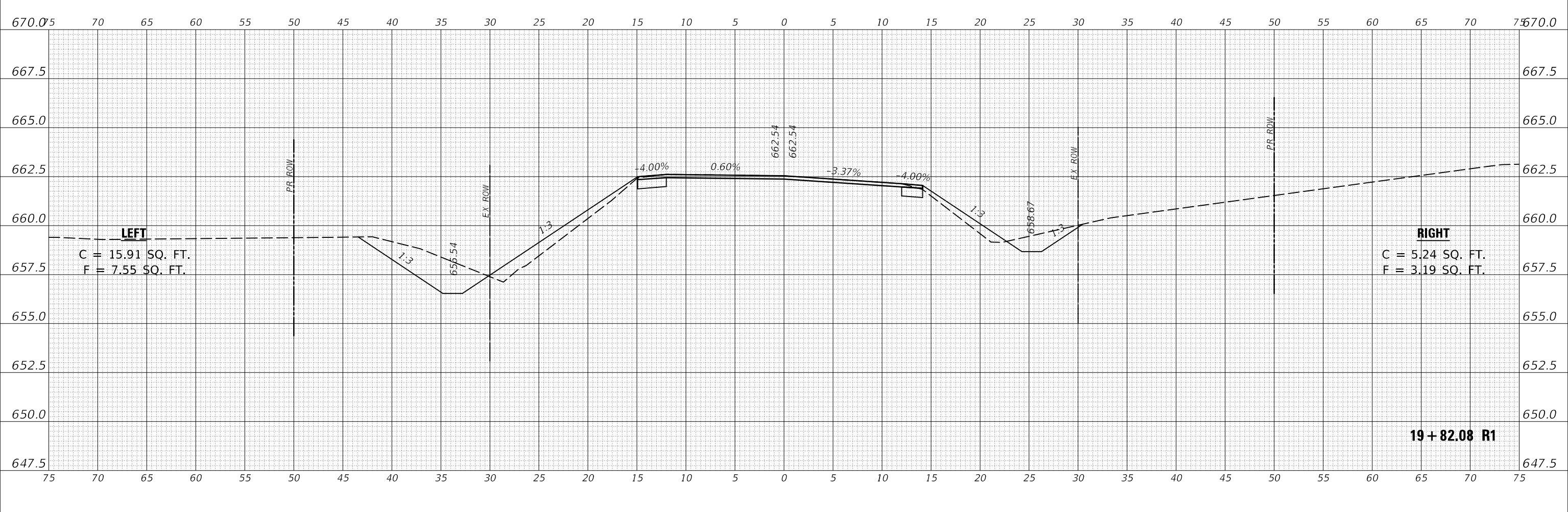
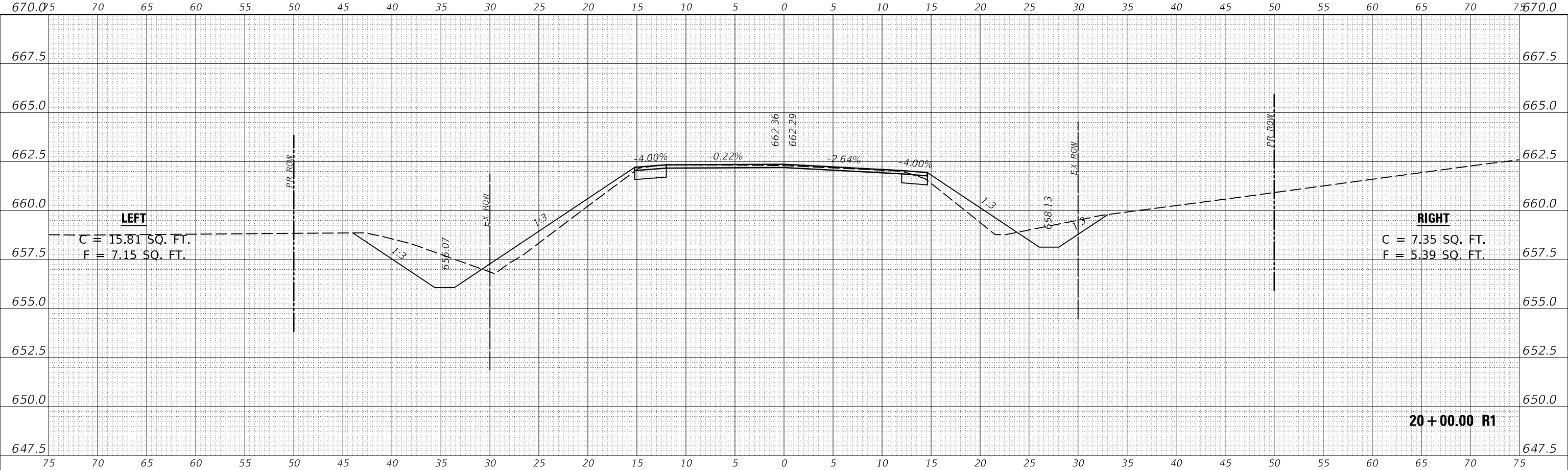
**STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING AND MARKERS (RURAL & URBAN APPLICATIONS)**

SCALE: N.T.S. SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	66
			CONTRACT NO. 70616	
ILLINOIS FED. AID PROJECT				

\*77-00089-01-BR-1



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

DATE	
BY	
ORIGINAL SURVEY	SURVEYED
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	AREAS CHECKED

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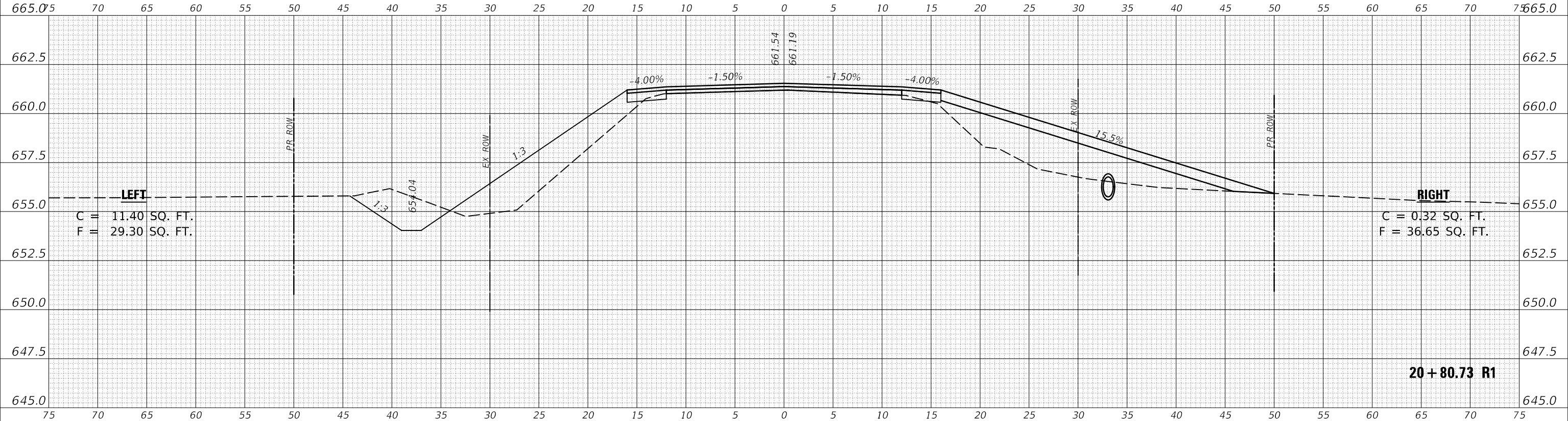
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE: 1" = 5'	SHEET 1	OF 25 SHEETS	STA. 19+82.08 R1 TO STA. 20+00.00 R1
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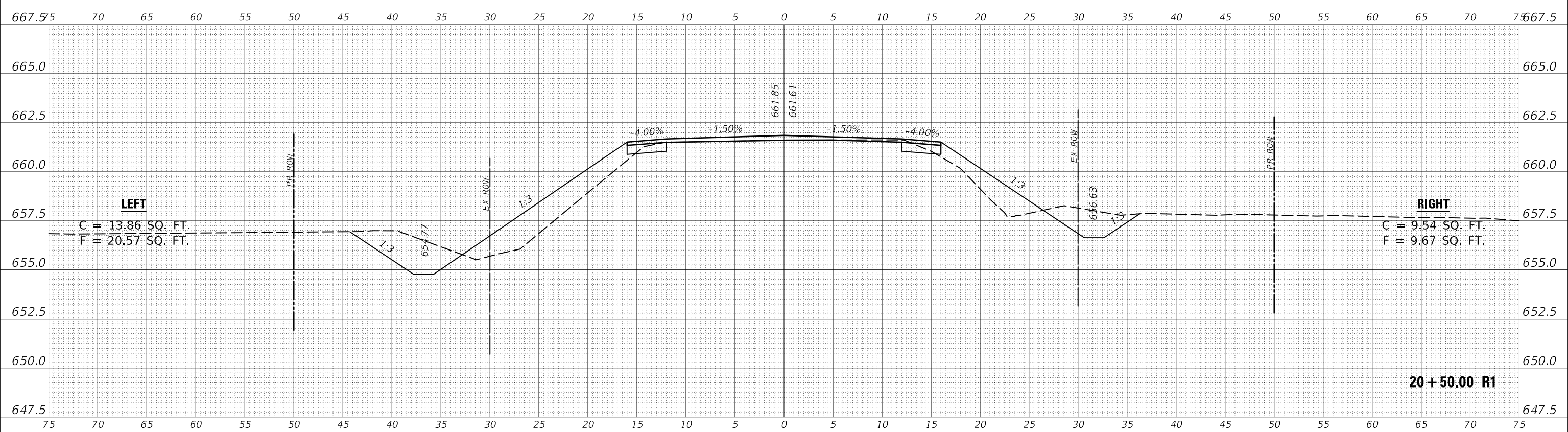
**C.H. 12 (ST. JOSEPH RD.)  
CROSS-SECTIONS**

F.A.S. RTE. 516	SECTION *	COUNTY CHAMPAIGN	TOTAL SHEETS 91	SHEET NO. 67
		CONTRACT NO. 70616		
		ILLINOIS FED. AID PROJECT		

DATE	
BY	
FINAL SURVEY	
NO. _____	
NOTE BOOK	
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DATE	
BY	
ORIGINAL SURVEY	
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	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/5/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

SCALE: 1" = 5'		SHEET 2	OF 25 SHEETS	STA. 20+50.00 R1 TO STA. 20+80.73 R1
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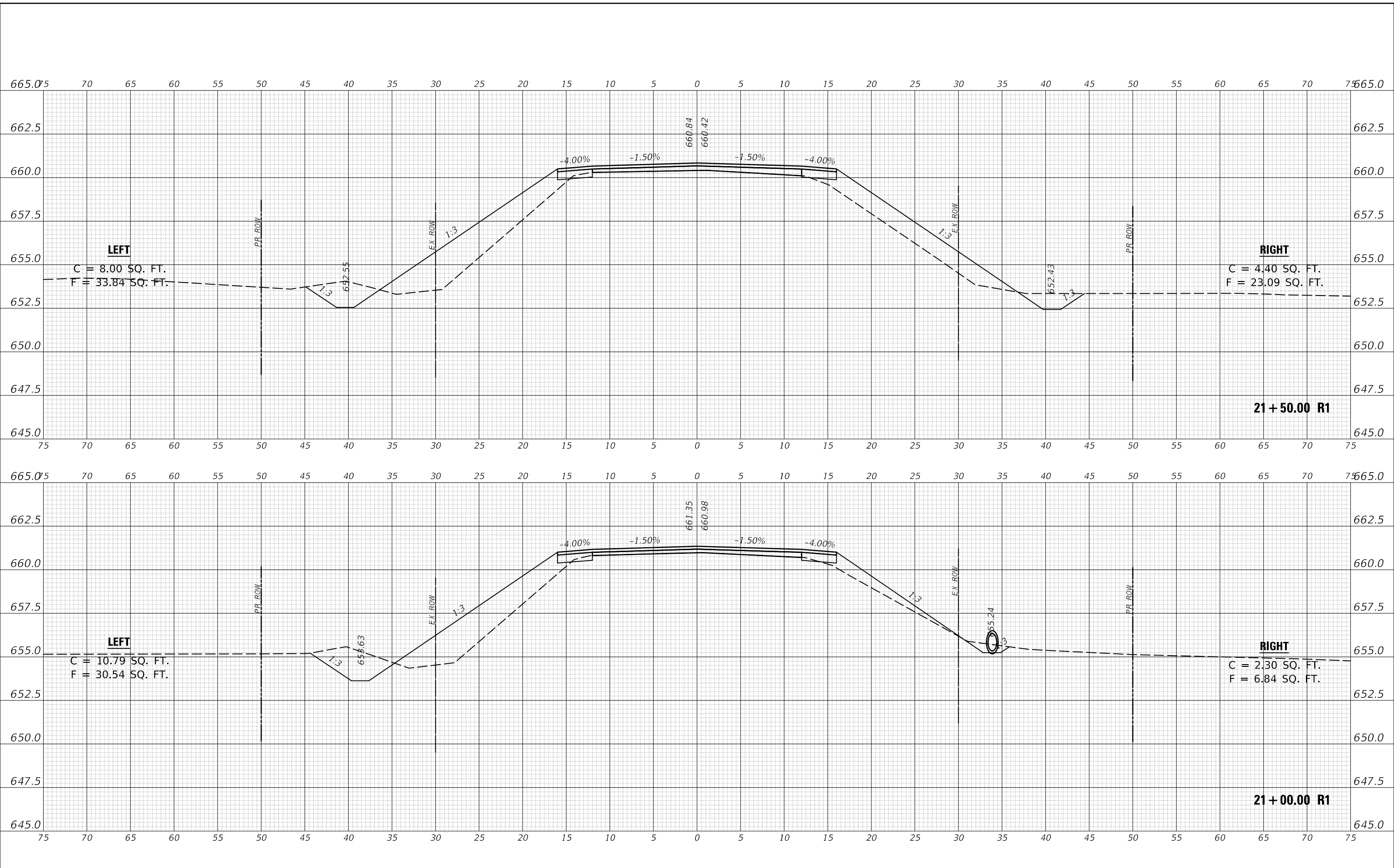
**C.H. 12 (ST. JOSEPH RD.)  
CROSS-SECTIONS**

F.A.S. RTE. 516	SECTION *	COUNTY CHAMPAIGN	TOTAL SHEETS 91	SHEET NO. 68
			CONTRACT NO. 70616	
ILLINOIS FED. AID PROJECT				

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

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USER NAME = PiersonTJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
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PLOT DATE = 8/5/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

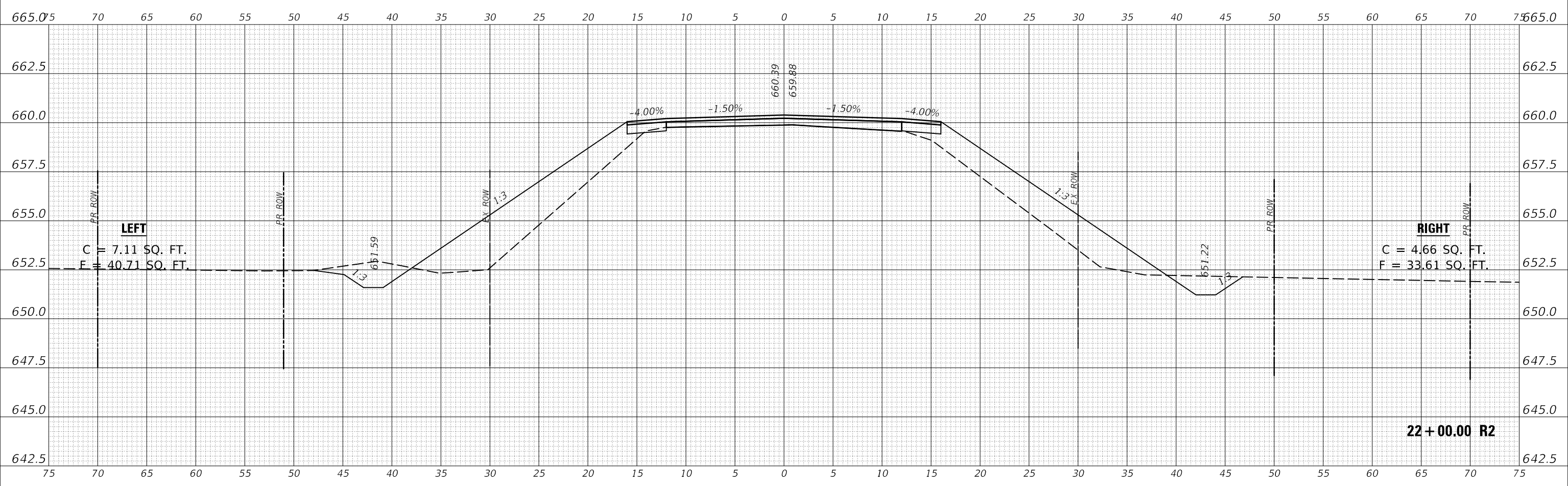
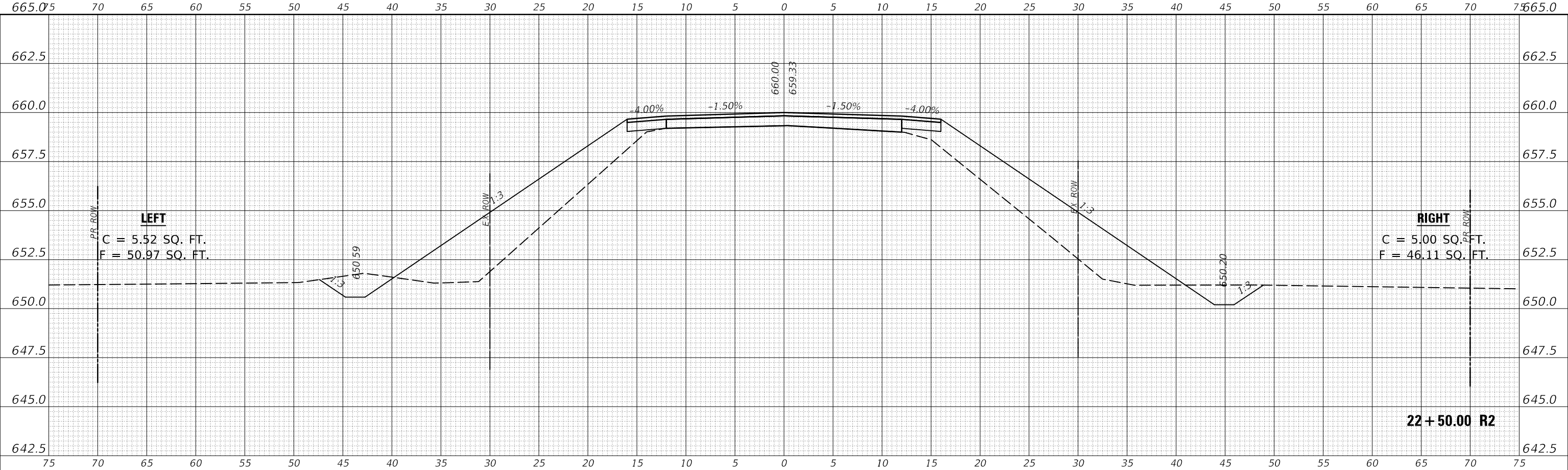
<b>C.H. 12 (ST. JOSEPH RD.) CROSS-SECTIONS</b>	
SCALE: 1" = 5'	SHEET 3 OF 25 SHEETS
STA. 21+00.00 R1 TO STA. 21+50.00 R1	

F.A.S. RTE. 516	SECTION *	COUNTY CHAMPAIGN	TOTAL SHEETS 91	SHEET NO. 69
			CONTRACT NO. 70616	
ILLINOIS FED. AID PROJECT				

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

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

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FILE NAME: D:\gablan\road\Illinois\p\PROJECT\DOT Documents\DOT Office\District 3\Project\DOT\70616\CADD\Drawings\DOT\70616-Sub-Cross Sections.dgn



USER NAME = PiersonTJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/5/2020	DATE -	REVISED -

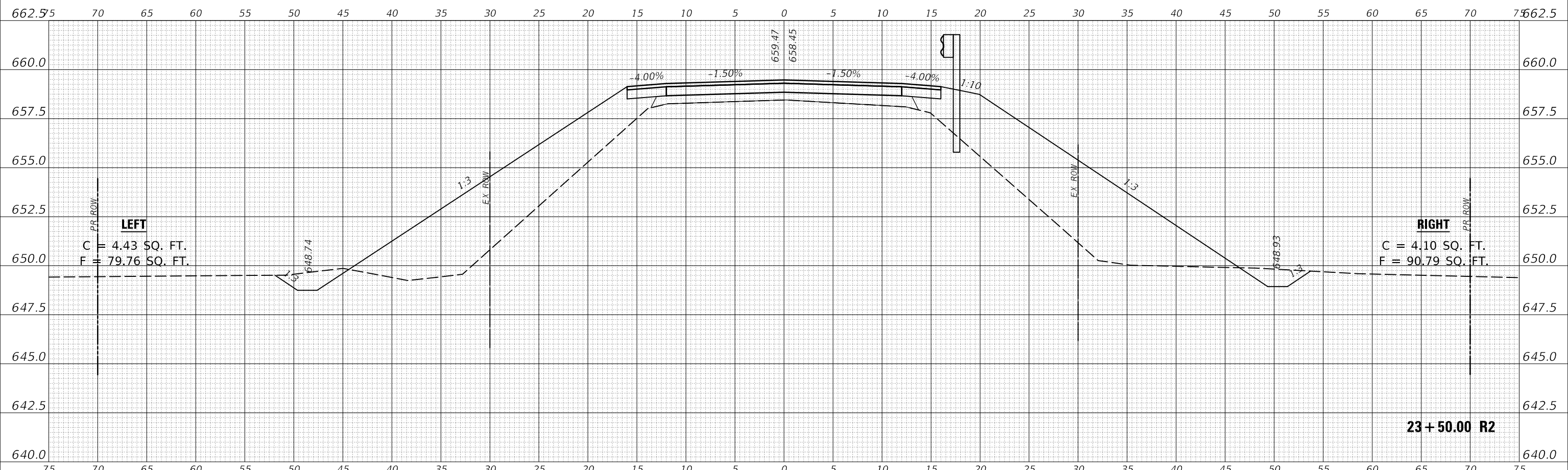
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: 1" = 5'		SHEET 4	OF 25 SHEETS	STA. 22+00.00 R2 TO STA. 22+50.00 R2
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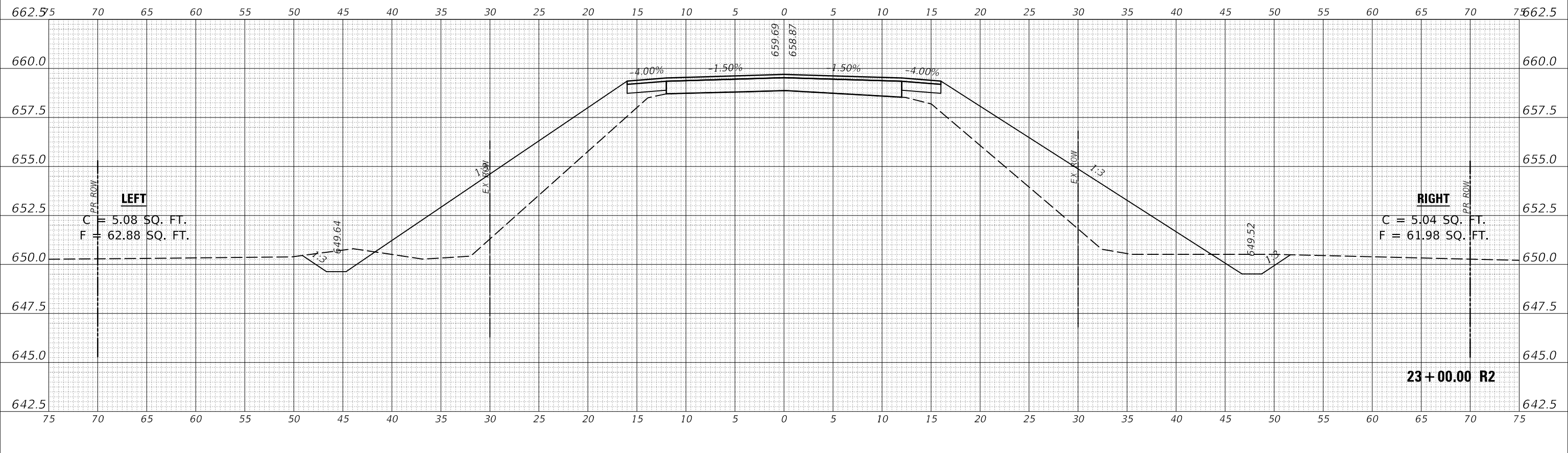
C.H. 12 (ST. JOSEPH RD.)  
CROSS-SECTIONS

F.A.S. RTE. 516	SECTION *	COUNTY CHAMPAIGN	TOTAL SHEETS 91	SHEET NO. 70
			CONTRACT NO. 70616	
ILLINOIS FED. AID PROJECT				

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



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



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USER NAME = PiersonTJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/5/2020	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: 1" = 5'	SHEET 5	OF 25 SHEETS	STA. 23+00.00 R2 TO STA. 23+50.00 R2
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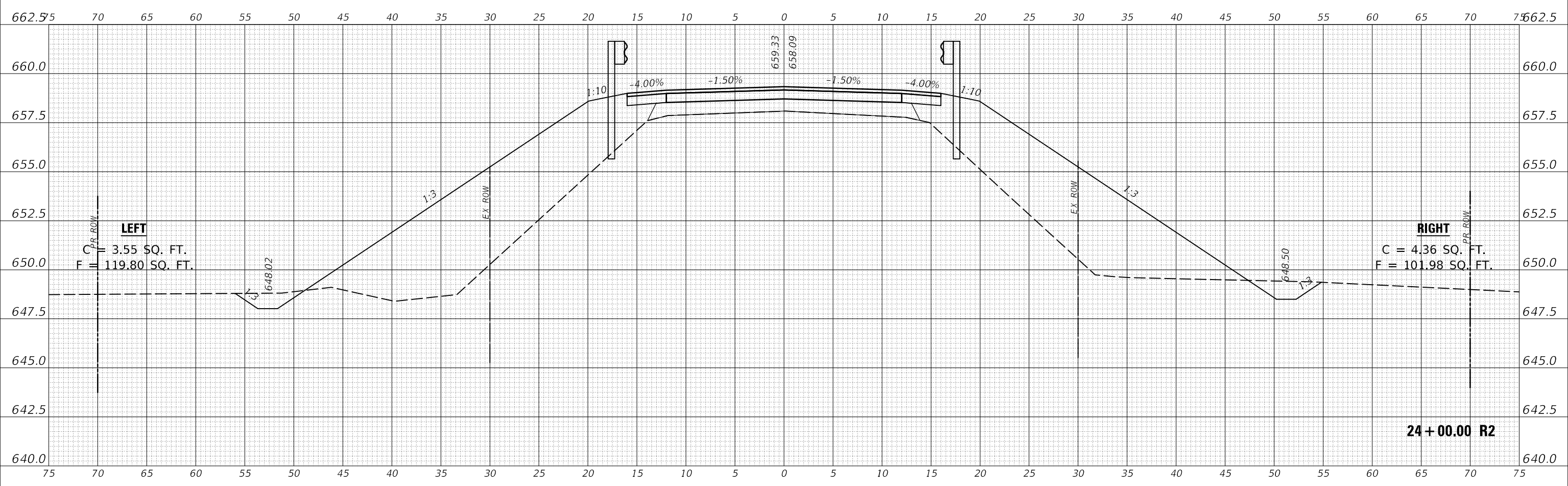
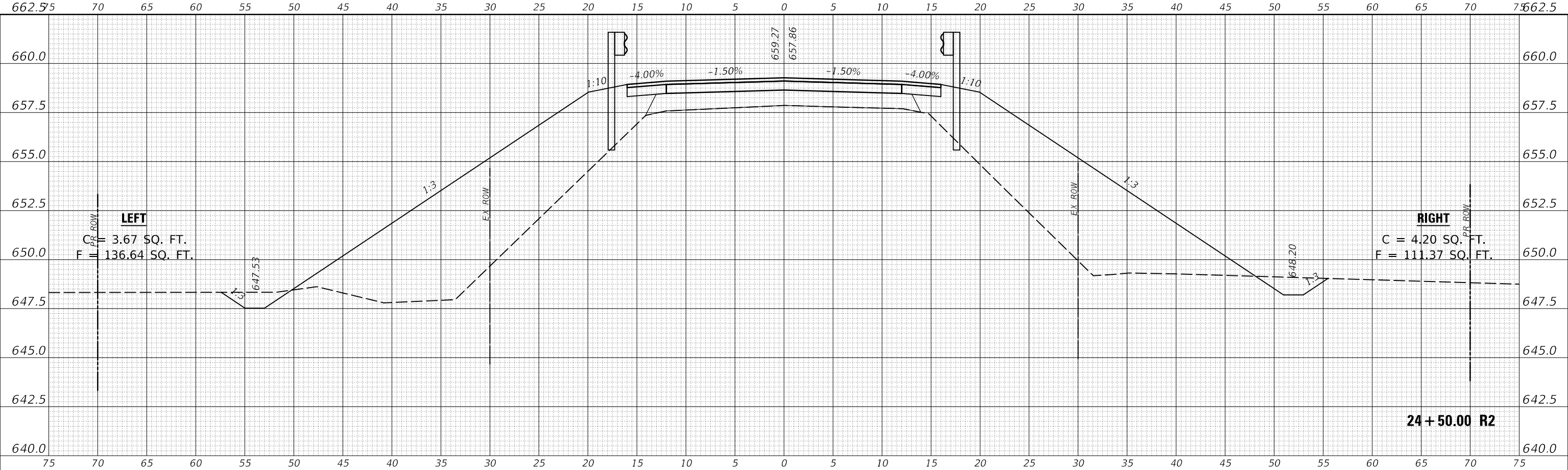
C.H. 12 (ST. JOSEPH RD.)  
CROSS-SECTIONS

F.A.S. RTE. 516	SECTION *	COUNTY CHAMPAIGN	TOTAL SHEETS 91	SHEET NO. 71
			CONTRACT NO. 70616	
ILLINOIS FED. AID PROJECT				

DATE	
BY	
FINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
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NOTE BOOK	
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DATE	
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ORIGINAL SURVEY	
SURVEYED	
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AREAS CHECKED	
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NOTE BOOK	
AREAS CHECKED	
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USER NAME = PiersonTJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/5/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**C.H. 12 (ST. JOSEPH RD.)  
 CROSS-SECTIONS**  
 SCALE: 1" = 5' SHEET 6 OF 25 SHEETS STA. 24+00.00 R2 TO STA. 24+50.00 R2

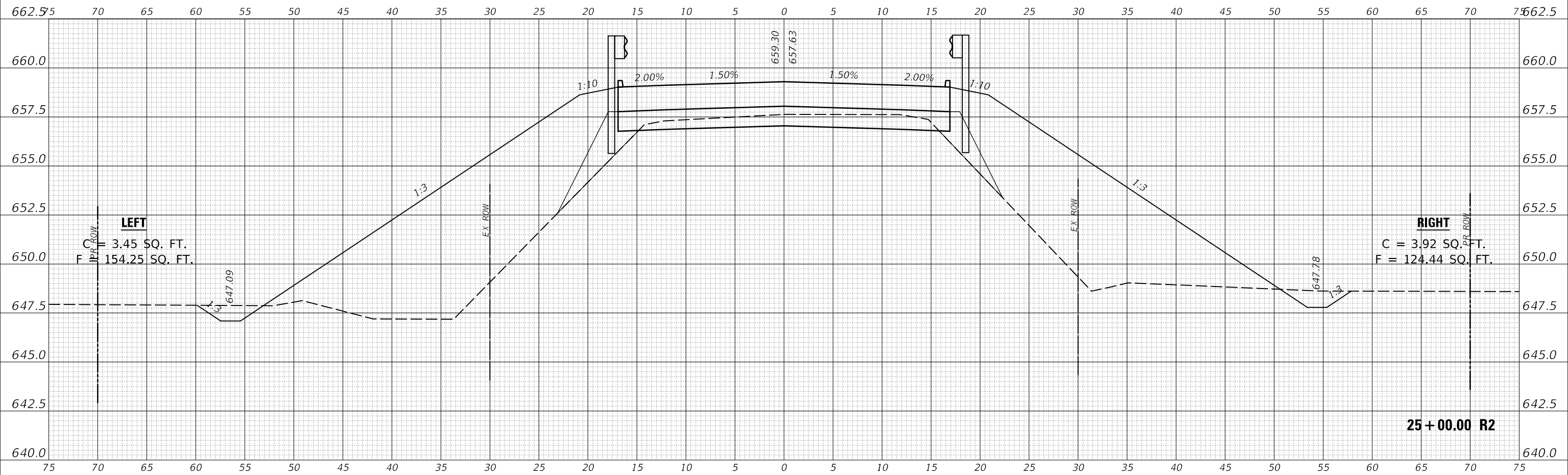
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	72
			CONTRACT NO. 70616	
ILLINOIS FED. AID PROJECT				



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

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

MODEL: \$MODELNAME\$  
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USER NAME = PiersonTJ	DESIGNED -	REVISED -
PLOT SCALE = 10.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 8/5/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>C.H. 12 (ST. JOSEPH RD.)    CROSS-SECTIONS</b>		
SCALE: 1" = 5'	SHEET 7	OF 25 SHEETS
STA. 25+00.00 R2 TO STA. 25+00.00 R2		

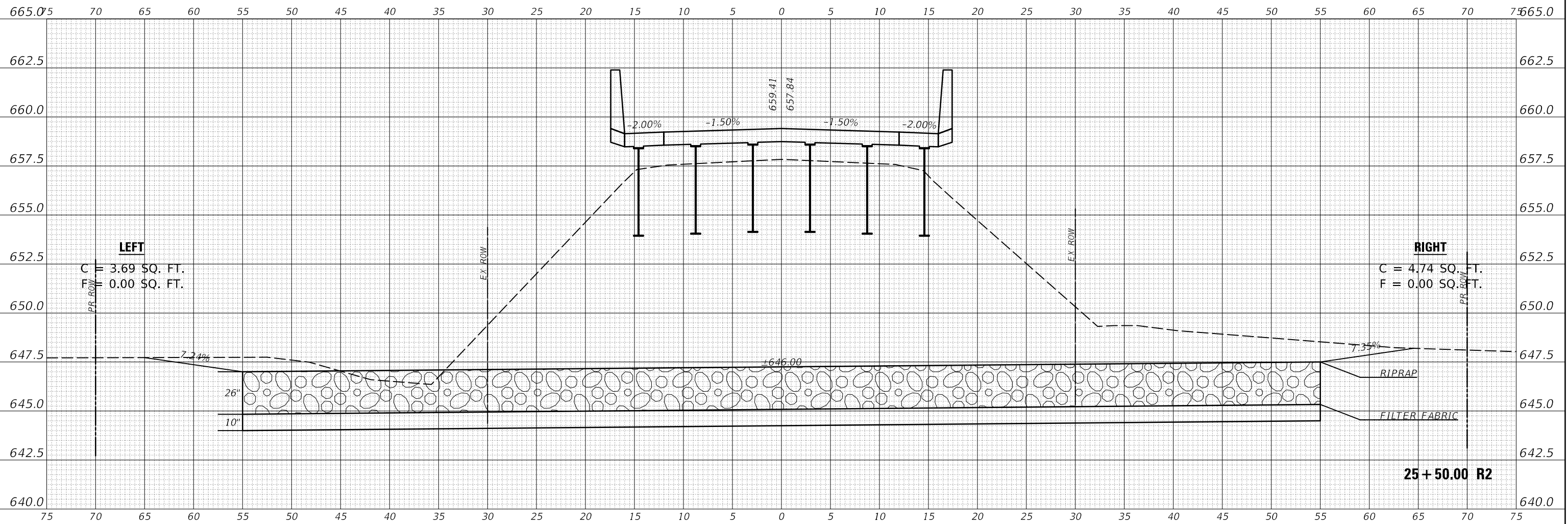
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	73
CONTRACT NO. 70616				
ILLINOIS FED. AID PROJECT				

\*77-00089-01-BR-1

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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USER NAME = PjersonTJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/5/2020	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

C.H. 12 (ST. JOSEPH RD.)  
CROSS-SECTIONS

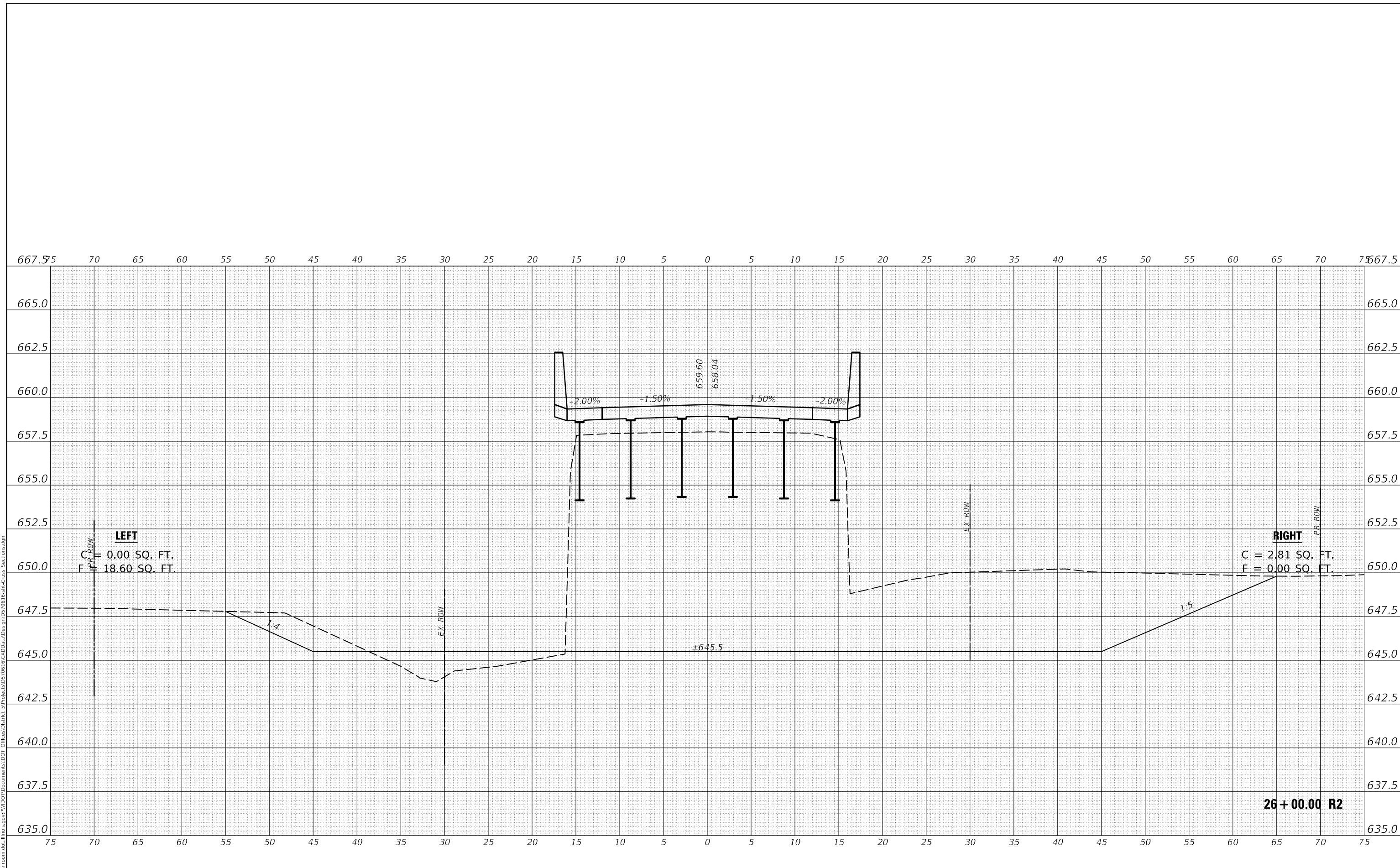
SCALE: 1" = 5' SHEET 8 OF 25 SHEETS STA. 25+50.00 R2 TO STA. 25+50.00 R2

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	74
			CONTRACT NO. 70616	
		ILLINOIS	FED. AID PROJECT	

DATE	
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FINAL SURVEY NO.	
NOTE BOOK NO.	
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AREAS CHECKED	
ORIGINAL SURVEY NO.	
NOTE BOOK NO.	
AREAS CHECKED	

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USER NAME = PiersontJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/5/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**C.H. 12 (ST. JOSEPH RD.)  
CROSS-SECTIONS**

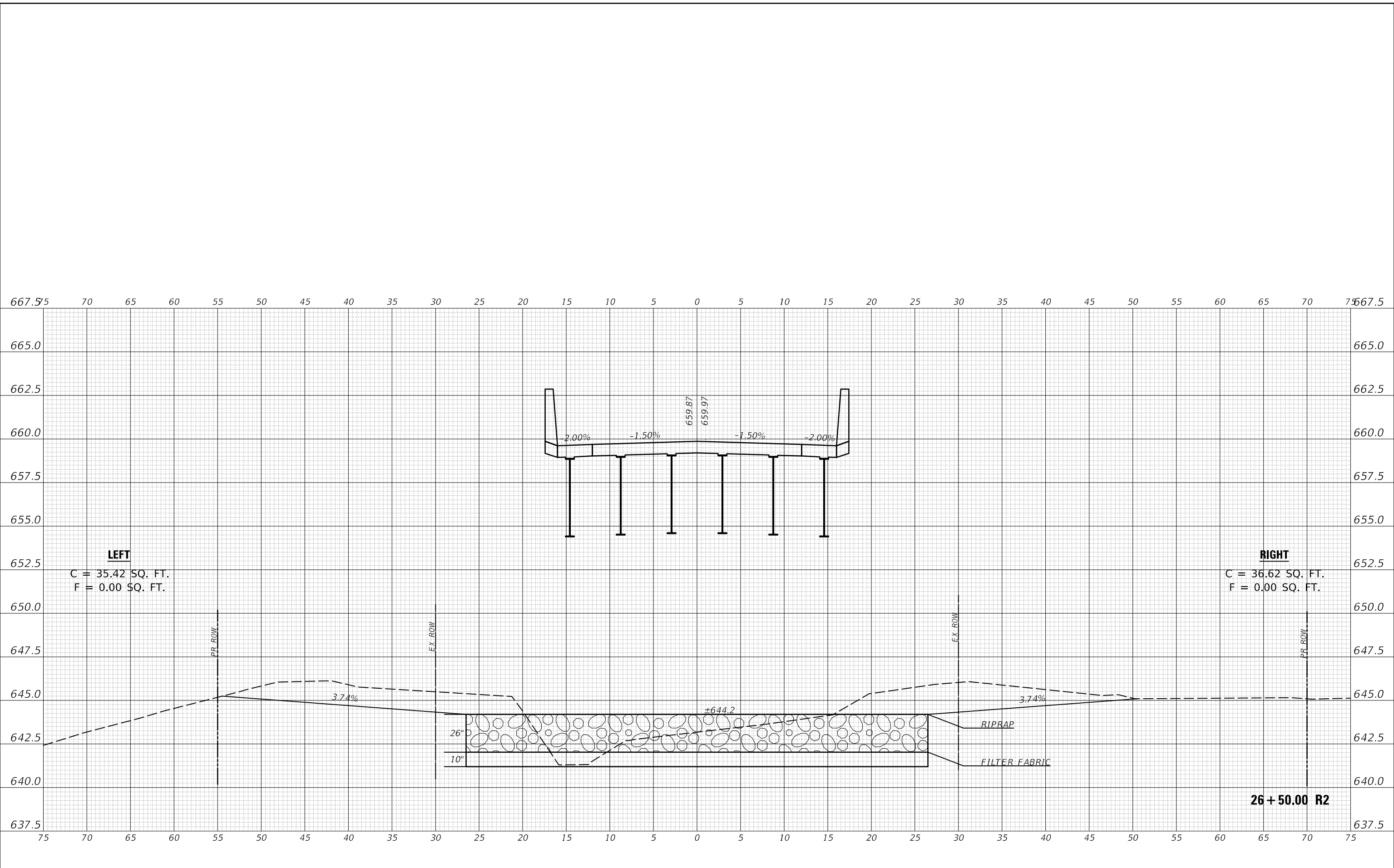
SCALE: 1" = 5'      SHEET 9 OF 25 SHEETS      STA. 26+00.00 R2 TO STA. 26+00.00 R2

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	75
CONTRACT NO. 70616				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	
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ORIGINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
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USER NAME = PjersonTJ	DESIGNED -	REVISED -
PLOT SCALE = 10.0000 ' / in.	DRAWN -	REVISED -
PLOT DATE = 8/5/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

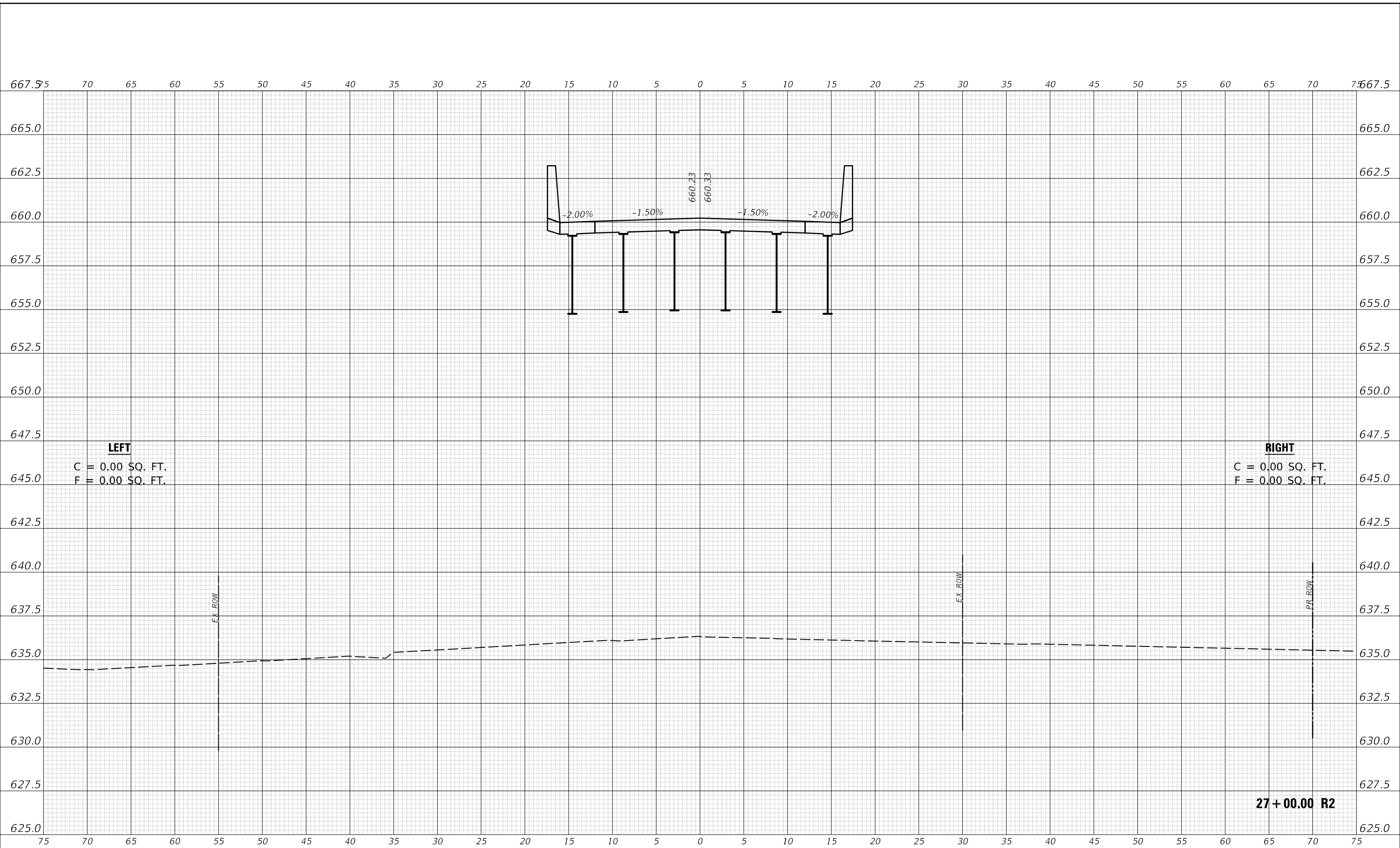
<b>C.H. 12 (ST. JOSEPH RD.) CROSS-SECTIONS</b>			
SCALE: 1" = 5'	SHEET 10	OF 25 SHEETS	STA. 26+50.00 R2 TO STA. 26+50.00 R2

F.A.S. RTE. 516	SECTION *	COUNTY CHAMPAIGN	TOTAL SHEETS 91	SHEET NO. 76
			CONTRACT NO. 70616	
ILLINOIS FED. AID PROJECT				

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

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

MODEL: \$PROJECT\NAME\$  
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USER NAME = PiersonTJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/5/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

SCALE: 1" = 5' SHEET 11 OF 25 SHEETS STA. 27+00.00 R2 TO STA. 27+00.00 R2

**C.H. 12 (ST. JOSEPH RD.)  
 CROSS-SECTIONS**

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	77
CONTRACT NO. 70616				
ILLINOIS		FED. AID PROJECT		

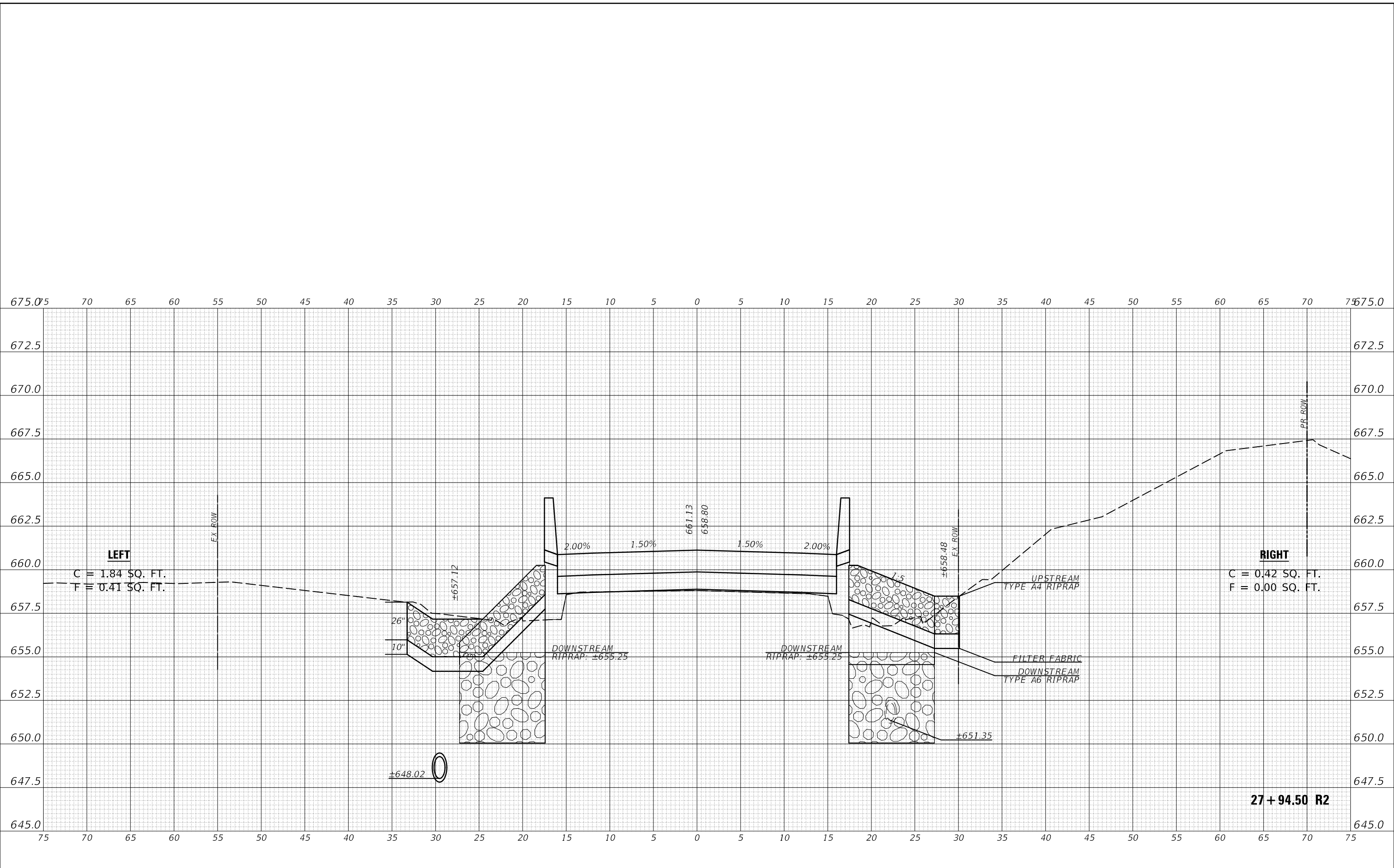
\*77-00089-01-BR-1



DATE	
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PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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DATE	
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TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
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FILE NAME: D:\gabrielson\m.d\Illinois\p\HWIDOT\Documents\DOT Office\District 3\Project\DS70616\CADD\Drawings\DS70616-ent-Cross Sections.dgn



USER NAME = PiersonTJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 8/5/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

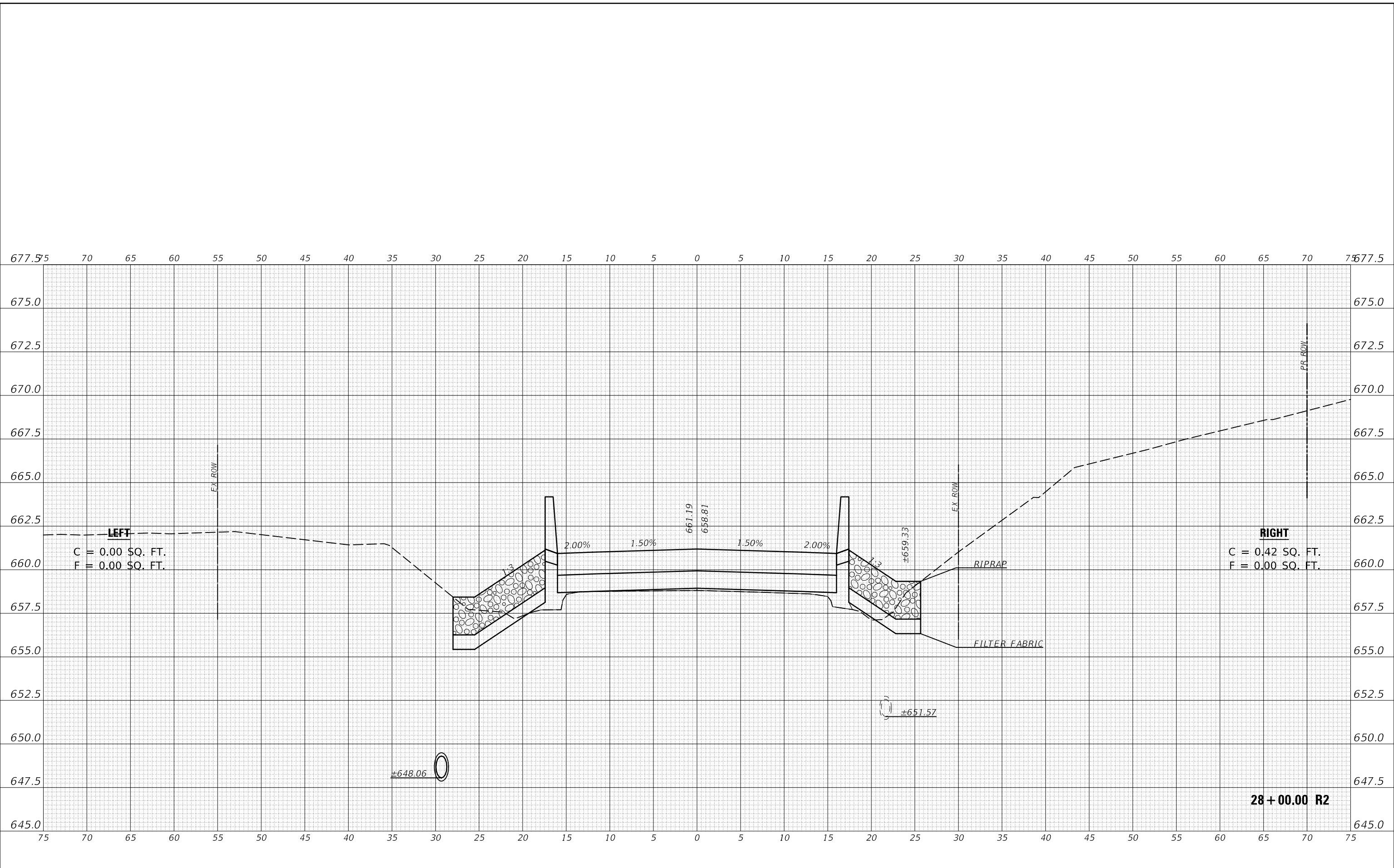
<b>C.H. 12 (ST. JOSEPH RD.)  CROSS-SECTIONS</b>	
SCALE: 1" = 5'	SHEET 13 OF 25 SHEETS
STA. 27+94.50 R2 TO STA. 27+94.50 R2	

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	79
CONTRACT NO. 70616				
ILLINOIS FED. AID PROJECT				

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

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TEMPLATE	
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ORIGINAL SURVEY NO.	
NOTE BOOK NO.	
AREAS CHECKED	

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USER NAME = Piersontj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/5/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>C.H. 12 (ST. JOSEPH RD.) CROSS-SECTIONS</b>			
SCALE: 1" = 5'	SHEET 14	OF 25 SHEETS	STA. 28+00.00 R2 TO STA. 28+00.00 R2

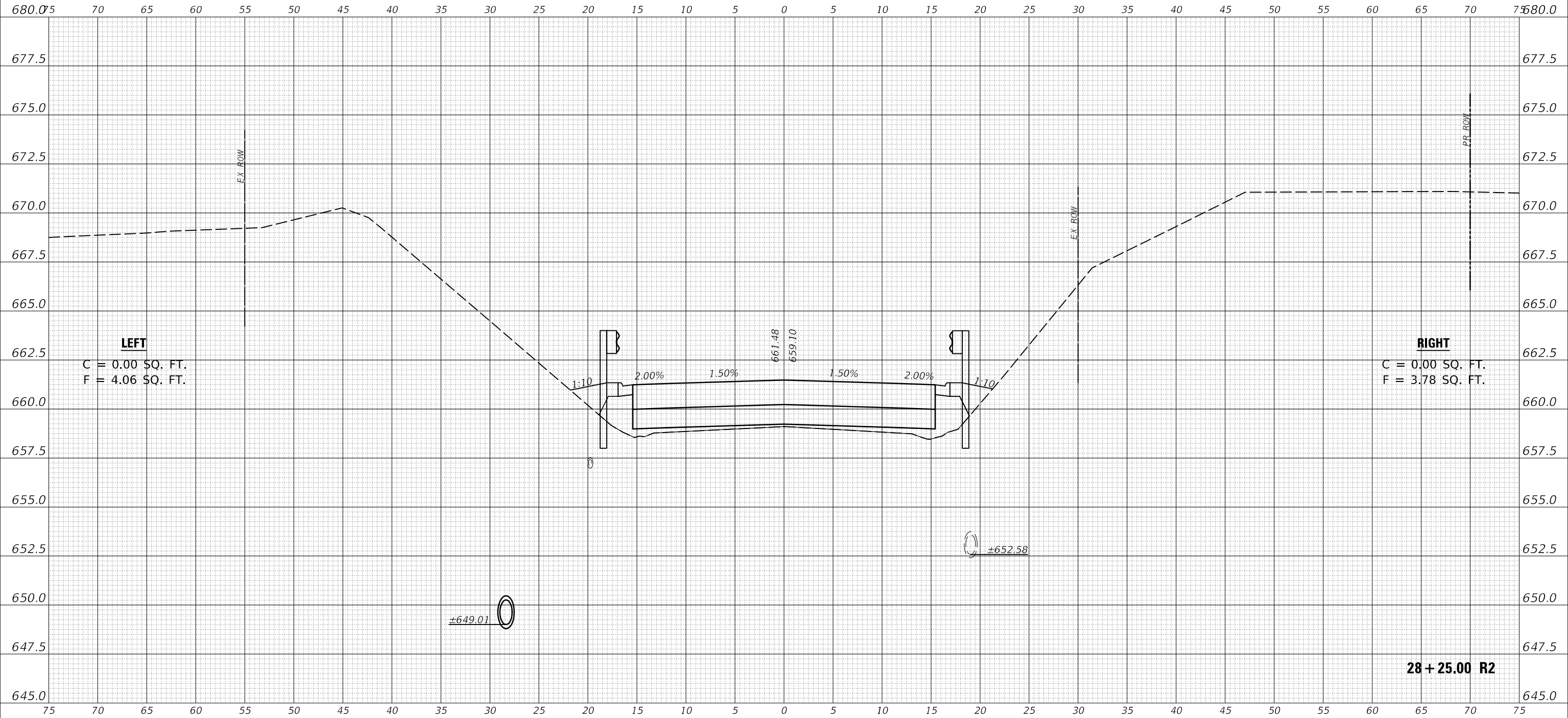
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	80
				CONTRACT NO. 70616
				ILLINOIS FED. AID PROJECT



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

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

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**C.H. 12 (ST. JOSEPH RD.)  
CROSS-SECTIONS**

USER NAME = PiersonTJ	DESIGNED -	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 8/5/2020	CHECKED -	REVISED -
	DATE -	REVISED -

SCALE: 1" = 5'      SHEET 15 OF 25 SHEETS      STA. 28+25.00 R2 TO STA. 28+25.00 R2

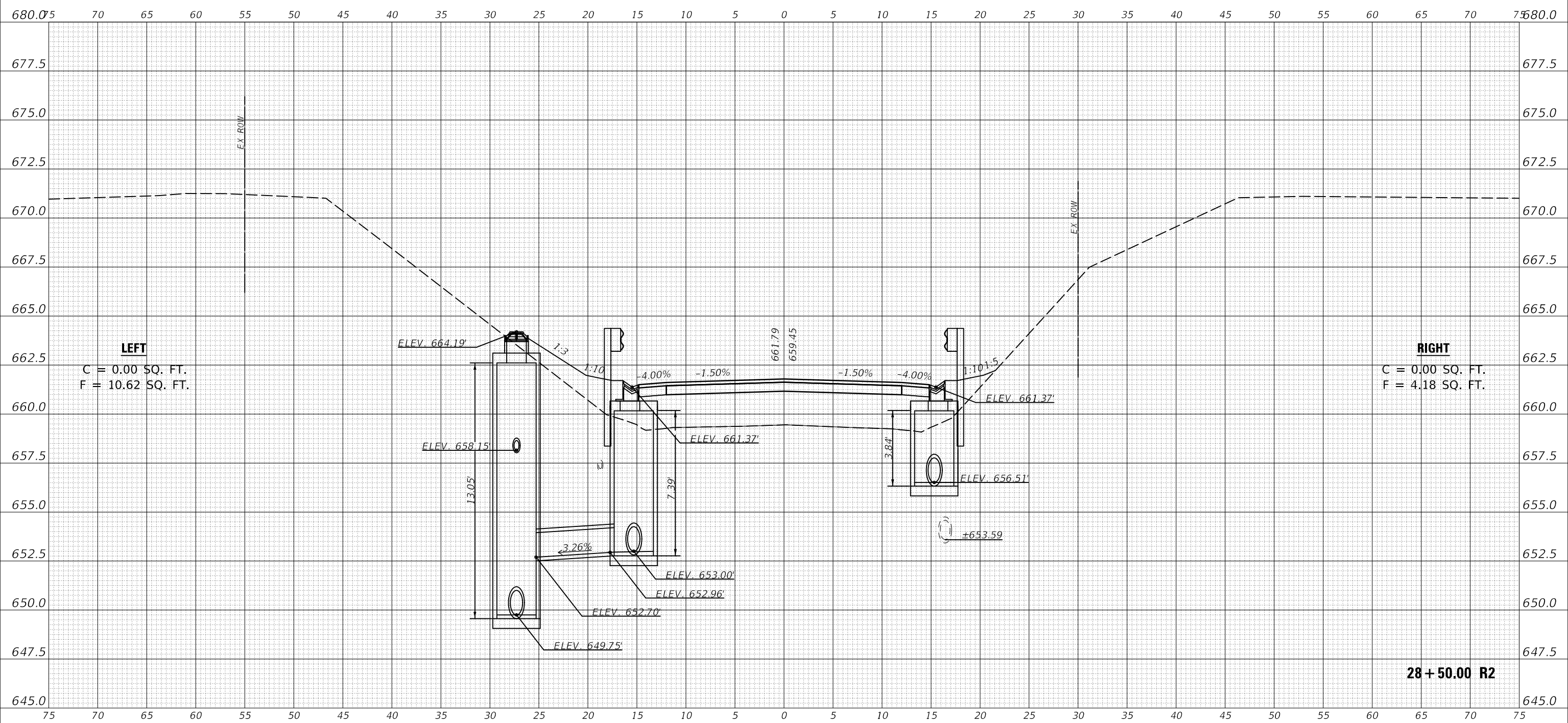
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	81
CONTRACT NO. 70616				
ILLINOIS FED. AID PROJECT				

\*77-00089-01-BR-1

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

DATE	
BY	
ORIGINAL SURVEY NO.	
SURVEYED PLOTTED AREAS CHECKED	
NOTE BOOK	
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USER NAME = PjersonTJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/5/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>C.H. 12 (ST. JOSEPH RD.) CROSS-SECTIONS</b>	
SCALE: 1" = 5'	SHEET 16 OF 25 SHEETS
STA. 28+50.00 R2 TO STA. 28+50.00 R2	

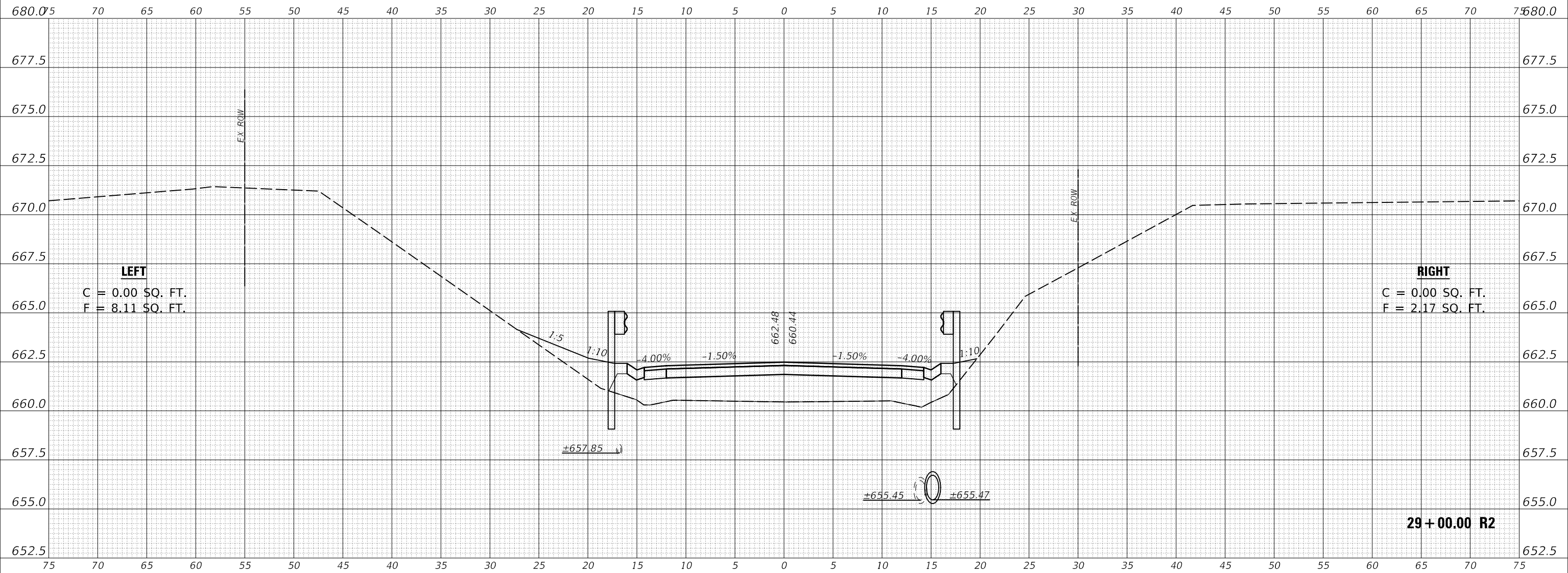
F.A.S. RTE. 516	SECTION *	COUNTY CHAMPAIGN	TOTAL SHEETS 91	SHEET NO. 82
ILLINOIS FED. AID PROJECT			CONTRACT NO. 70616	



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

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	
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	AREAS CHECKED	
	AREAS CHECKED	

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**29 + 00.00 R2**

USER NAME = PjersonTJ	DESIGNED -	REvised -
	DRAWN -	REvised -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REvised -
PLOT DATE = 8/5/2020	DATE -	REvised -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**C.H. 12 (ST. JOSEPH RD.)  
 CROSS-SECTIONS**

SCALE: 1" = 5'    SHEET 18 OF 25 SHEETS    STA. 29+00.00 R2 TO STA. 29+00.00 R2

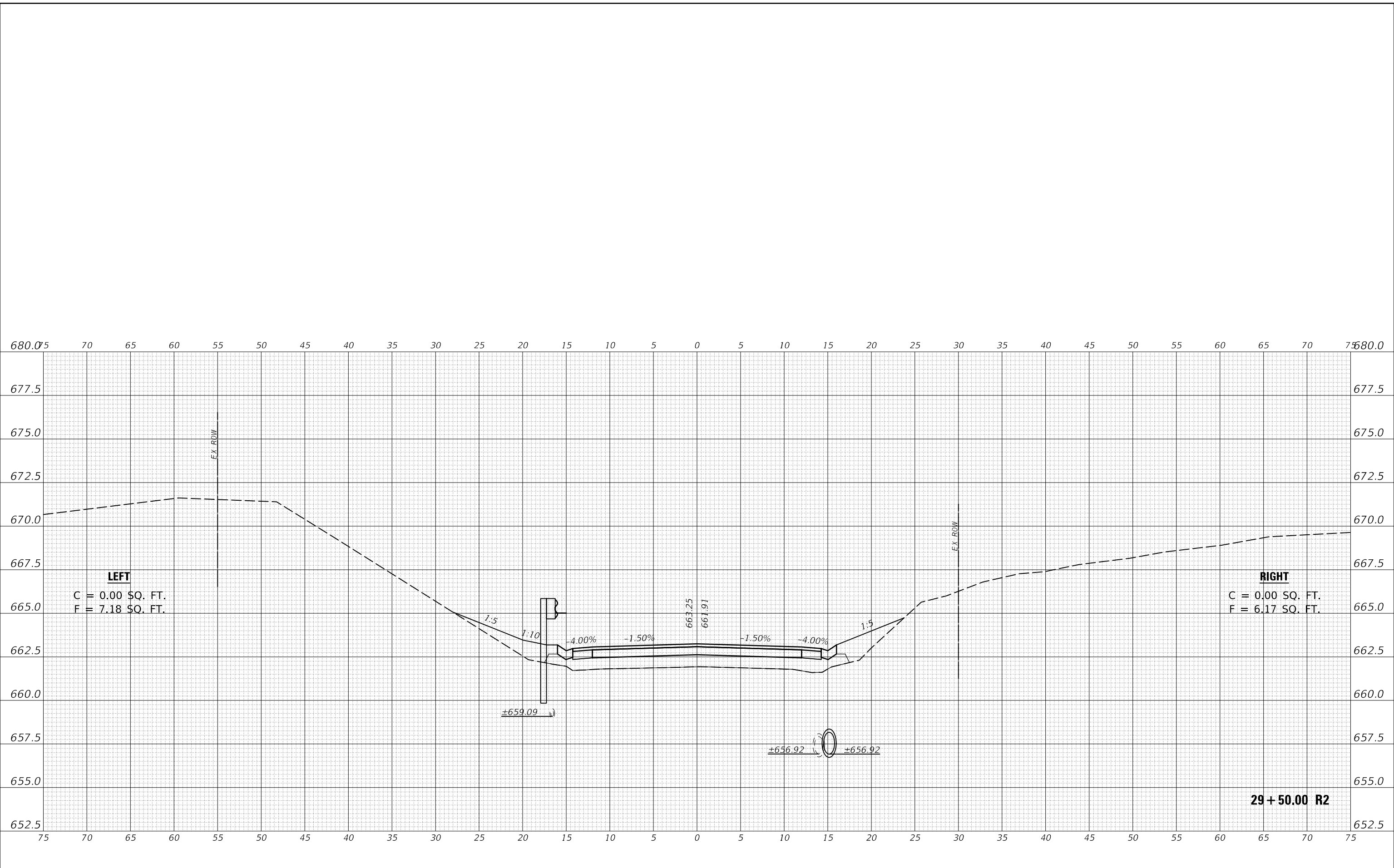
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	84
			CONTRACT NO. 70616	
			ILLINOIS FED. AID PROJECT	

\*77-00089-01-BR-1

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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29 + 50.00 R2

USER NAME = PjersonTJ	DESIGNED -	REVISOR -
	DRAWN -	REVISION -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISION -
PLOT DATE = 8/5/2020	DATE -	REVISION -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**C.H. 12 (ST. JOSEPH RD.)  
CROSS-SECTIONS**

SCALE: 1" = 5'      SHEET 19 OF 25 SHEETS      STA. 29+50.00 R2 TO STA. 29+50.00 R2

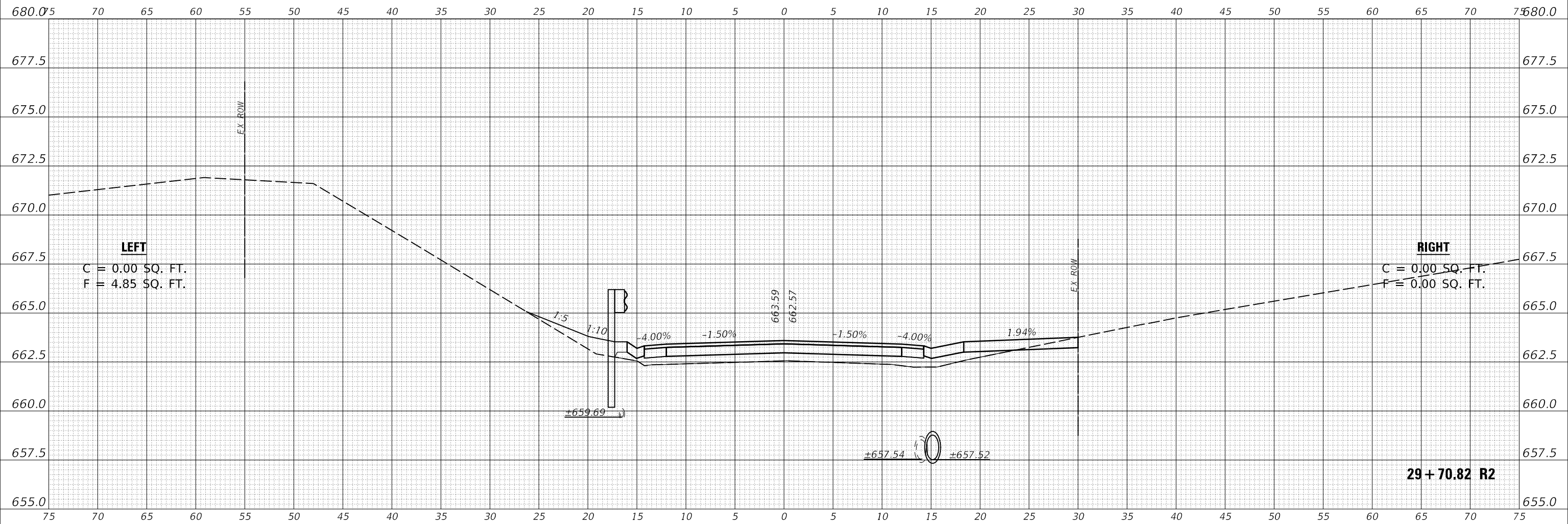
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	85
			CONTRACT NO. 70616	
		ILLINOIS	FED. AID PROJECT	

\*77-00089-01-BR-1

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

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

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USER NAME = PiersonTJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/5/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

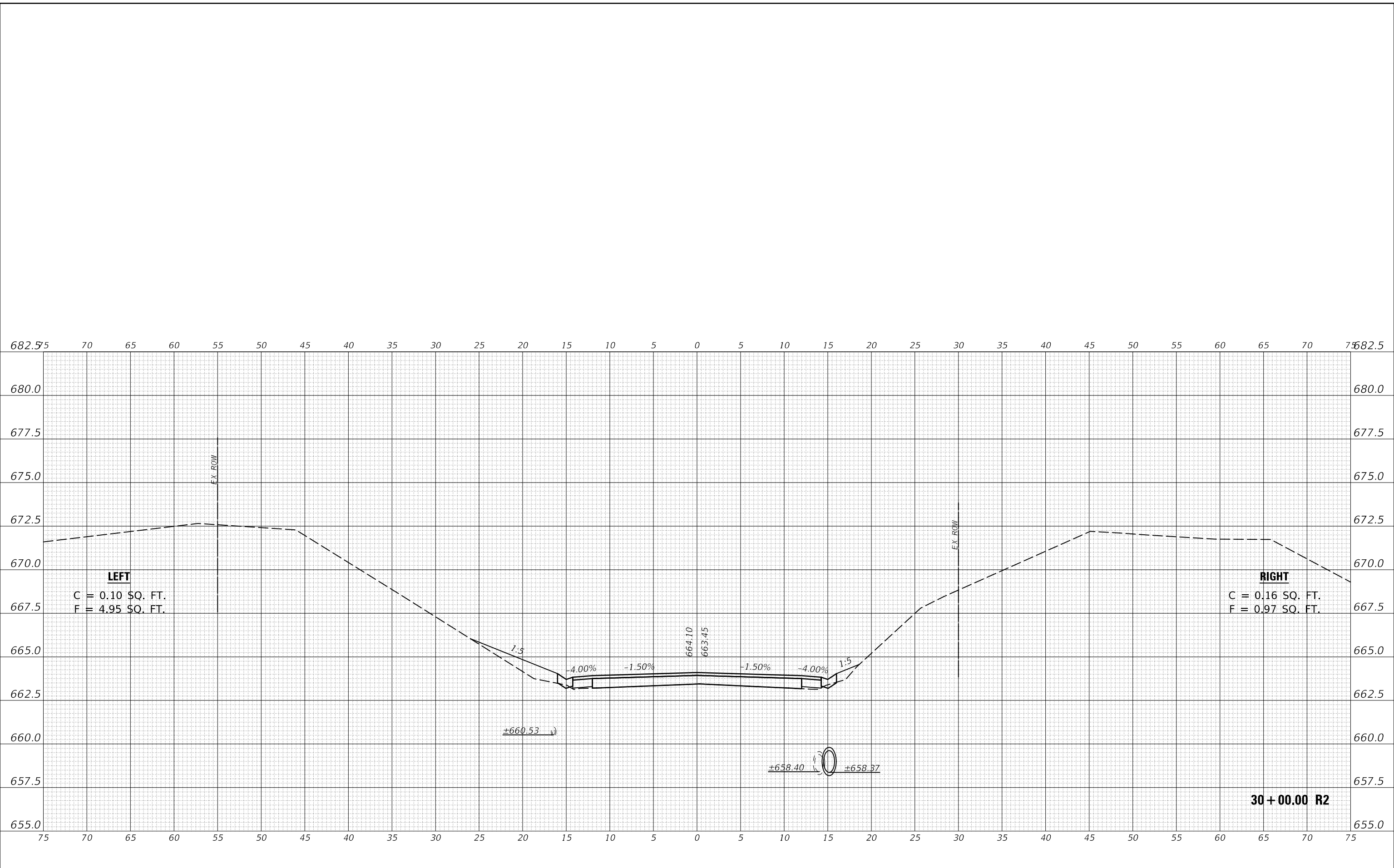
<b>C.H. 12 (ST. JOSEPH RD.)  CROSS-SECTIONS</b>	
SCALE: 1" = 5'	SHEET 20 OF 25 SHEETS
STA. 29+70.82 R2 TO STA. 29+70.82 R2	

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	86
CONTRACT NO. 70616				
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
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	AREAS CHECKED	
	AREAS CHECKED	

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USER NAME = PiersonTJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/5/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>C.H. 12 (ST. JOSEPH RD.) CROSS-SECTIONS</b>		
SCALE: 1" = 5'	SHEET 21 OF 25 SHEETS	STA. 30+00.00 R2 TO STA. 30+00.00 R2

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	87
CONTRACT NO. 70616				
ILLINOIS FED. AID PROJECT				

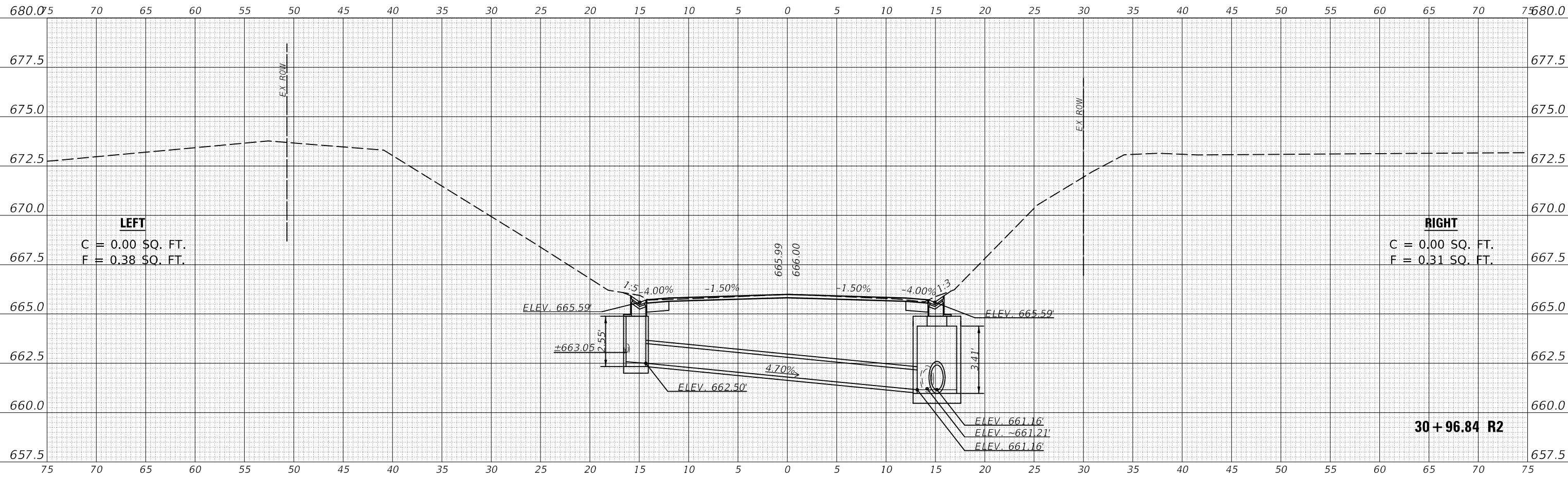




FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

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USER NAME = PjersonTJ	DESIGNED -	REVISED -
PLOT SCALE = 10.0000 ' / in.	DRAWN -	REVISIED -
PLOT DATE = 8/5/2020	CHECKED -	REVISIED -
	DATE -	REVISIED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**C.H. 12 (ST. JOSEPH RD.)  
 CROSS-SECTIONS**

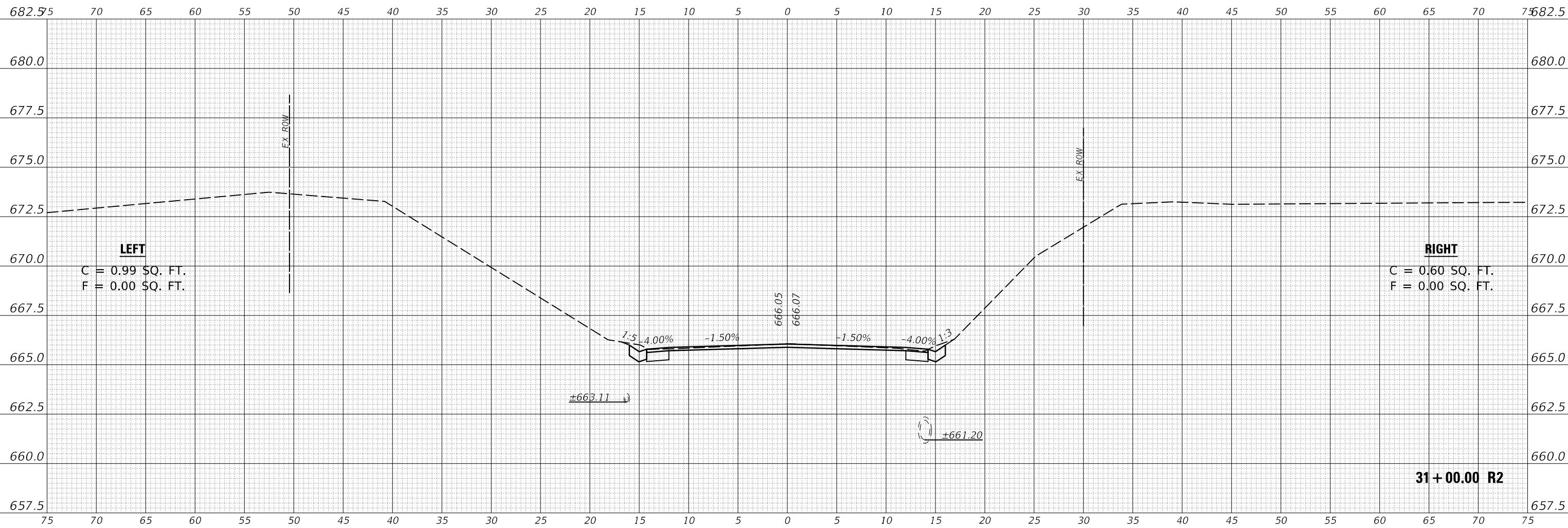
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	89
			CONTRACT NO. 70616	
ILLINOIS FED. AID PROJECT				

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

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

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USER NAME = PjersonTJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/5/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**C.H. 12 (ST. JOSEPH RD.)  
 CROSS-SECTIONS**

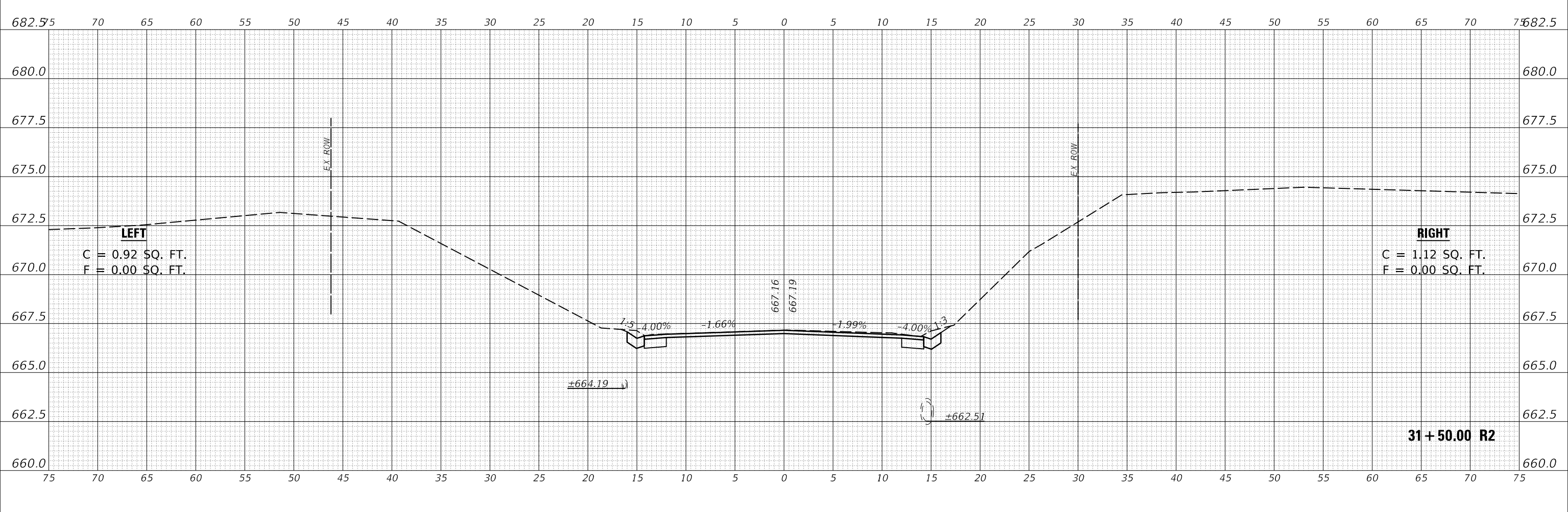
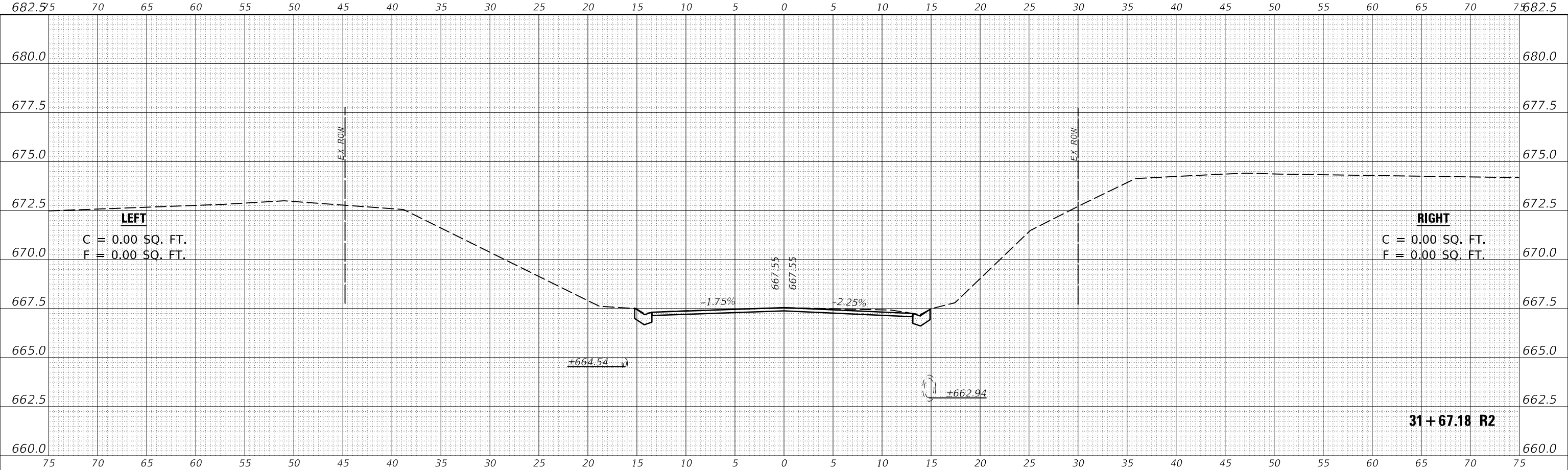
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
516	*	CHAMPAIGN	91	90
CONTRACT NO. 70616				
ILLINOIS FED. AID PROJECT				

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

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

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 OFFICE: DISTRICT



USER NAME = PiersonTJ	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 10.0000 ' / in.	CHECKED -	REVISED -
PLOT DATE = 8/5/2020	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**C.H. 12 (ST. JOSEPH RD.)  
 CROSS-SECTIONS**  
 SCALE: 1" = 5' SHEET 25 OF 25 SHEETS STA. 31+50.00 R2 TO STA. 31+67.18 R2

F.A.S. RTE. 516	SECTION *	COUNTY CHAMPAIGN	TOTAL SHEETS 91	SHEET NO. 91
			CONTRACT NO. 70616	
			ILLINOIS FED. AID PROJECT	