

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	1
		ILLINOIS	CONTRACT NO. 89750	

**INDEX OF SHEETS**

06-14-2019 LETTING ITEM 130

- 1 COVER
- 2 GENERAL NOTES
- 3-4 SUMMARY OF QUANTITIES
- 5 SCHEDULE OF QUANTITIES
- 6 TYPICAL SECTION
- 7 TIES, BENCHMARK, & SCHEMATIC
- 8 REMOVAL
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- 11 EROSION CONTROL & LANDSCAPING
- 12-15 DETAILS
- 16-34 STRUCTURE PLAN (SN 072-4318)
- 35-39 CROSS SECTIONS

FOR HIGHWAY STANDARDS, SEE SHEET 2

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

**PROPOSED  
HIGHWAY PLANS**

TR 7C (STREITMATTER RD)  
SECTION 16-00080-00-BR  
STREITMATTER RD OVER BR. OF SPOON RIVER  
BRIDGE REPLACEMENT  
PEORIA COUNTY

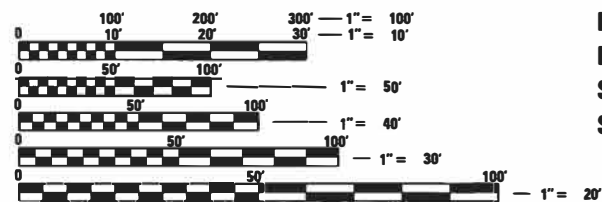
C-94-004-19

R6E

**UTILITIES**

AMEREN ILLINOIS  
WAHEED SHAHZAD  
309-693-4631

FRONTIER COMMUNICATIONS  
TERRY SPURGEON  
309-853-6293



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

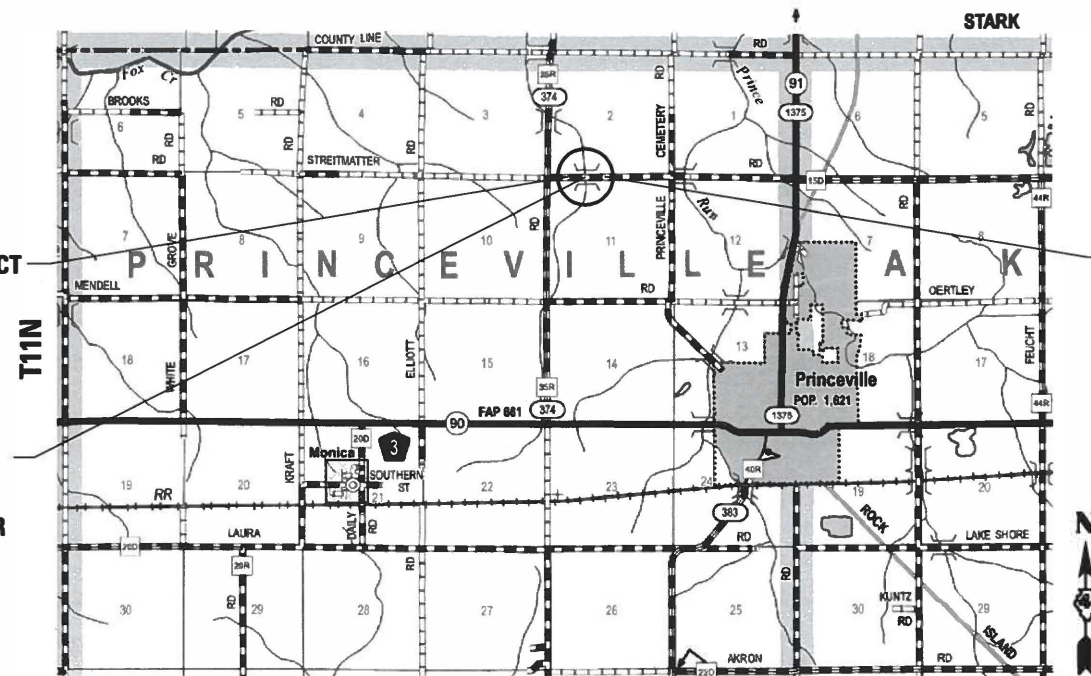
J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811

COUNTY PROJECT ENGINEER: JEFFREY GILLES, PE (309-697-6400 X127)

TERRA PROJECT MANAGER: ERIC THERKILDSEN, PE (309-999-0123)

CATALOG NO. 035664-00D

CONTRACT NO. 89750



START PROJECT  
STA 24 + 00

END PROJECT  
STA 28 + 95

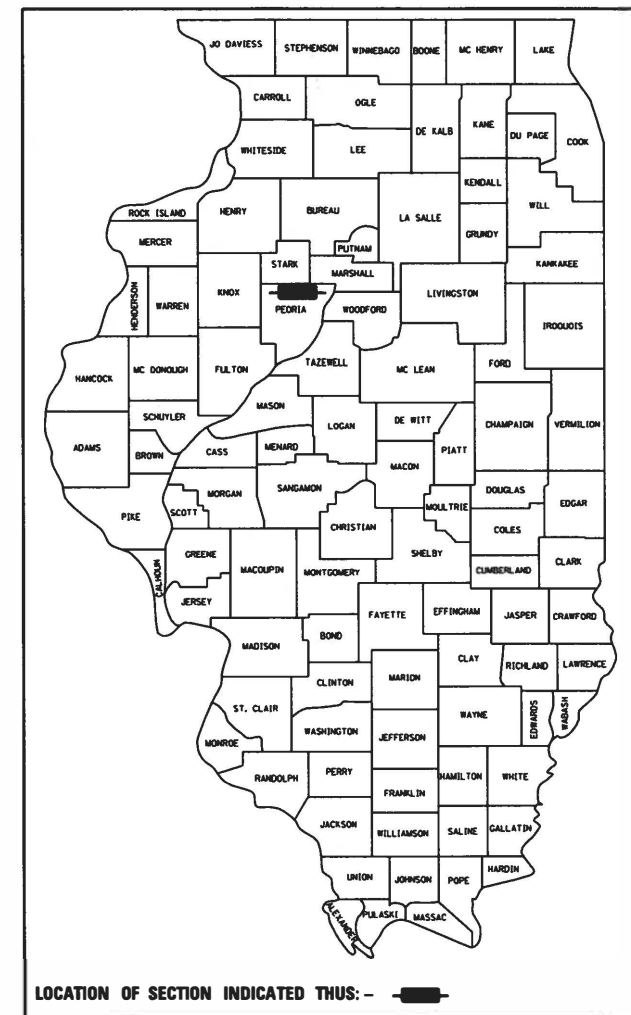
EXISTING SN 072-3021  
PROPOSED SN 072-4318  
SINGLE SPAN STEEL GIRDER  
STA 26 + 32

LOCATION MAP  
NOT TO SCALE

GROSS LENGTH = 495 FT. = 0.1 MILE  
NET LENGTH = 495 FT. = 0.1 MILE



*[Signature]* 3/14/19  
ERIC THERKILDSEN, P.E.  
LICENSED PROFESSIONAL ENGINEER  
ILLINOIS NO. 062.044857 EXPIRES 11-30-2019



LOCATION OF SECTION INDICATED THIS: - [Symbol]

FUNCTIONAL CLASSIFICATION:  
DESIGN SPEED: 55 MPH  
DESIGN TRAFFIC: 75 ADT (2019)

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

Approved: *[Signature]* March 14, 2019  
PEORIA COUNTY ENGINEER

Passed: *[Signature]* April 1, 2019  
DISTRICT 4 ENGINEER OF LOCAL ROADS & STREETS

Releasing for Bid Based on Limited Review: *[Signature]* April 1, 2019  
REGION 3 ENGINEER

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OF THE STATE OF ILLINOIS

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## HIGHWAY STANDARDS

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
420001-09	PAVEMENT JOINTS
420406	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB
515001-03	NAME PLATE FOR BRIDGES
542401-03	METAL FLARED END SECTION FOR PIPE CULVERT
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-15	TRAFFIC BARRIER TERMINAL, TYPE 6
666001-01	RIGHT OF WAY MARKERS
701901-08	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR 22-7	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS (TWO-LANE TWO WAY RURAL TRAFFIC; ROAD CLOSED TO THRU TRAFFIC)

## GENERAL NOTES

- THE CONTRACTOR SHALL FOLLOW THE MAINTENANCE OF TRAFFIC SPECIAL PROVISION FOR TRAFFIC CONTROL.
- THE CONTRACTOR SHALL PROVIDE A CLEAN SAW CUT EDGE AT THE BEGINNING AND END OF PAVEMENT IMPROVEMENT LIMITS IMMEDIATELY PRIOR TO THE PLACEMENT OF HMA.
- UNDER NO CIRCUMSTANCES IS THE EXISTING STRUCTURE TO BE DRIVEN ON.
- IN STREAM WORK SHALL BE IN ACCORDANCE WITH THE SPECIAL PROVISIONS.
- UTILITY LOCATIONS SHOWN ON PLANS ARE APPROXIMATE. CONTRACTOR SHALL VERIFY LOCATIONS IN THE FIELD PRIOR TO BEGINNING WORK.
- CONTRACTOR SHALL CONTACT FRONTIER COMMUNICATIONS PRIOR TO BEGINNING WORK. WORK NEAR OR RELATED TO FRONTIER COMMUNICATIONS FACILITIES SHALL BE COORDINATED WITH FRONTIER COMMUNICATIONS.
- TWENTY-FIVE FEET (25 FT.) TRANSITIONS SHALL BE USED TO MATCH PROPOSED ITEMS OF WORK TO EXISTING ITEMS IN THE FIELD UNLESS OTHERWISE SHOWN. THE TRANSITION SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED.

### HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE USE(S):	HMA SURFACE COURSE, MIX "C", N50	HMA BINDER COURSE, MIX "C", N50
AC/PC:	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4% @ NDES 50	4% @ NDES 50
MIXTURE COMPOSITION:	IL 9.5	IL 19.0
FRICTION AGGREGATE:	MIXTURE C	NA
MIXTURE WEIGHTS:	112 LB / SY / INCH	112 LB / SY / INCH
QUALITY MANAGEMENT:	QC/QA	QC/QA

NOTES: INDIVIDUAL LIFT THICKNESS OF EACH MIX TYPE WILL BE NO LESS THAN 3 TIMES NOMINAL MAXIMUM AGGREGATE SIZE AND NO MORE THAN 6 TIMES NOMINAL MAXIMUM AGGREGATE SIZE.

## IDOT DISTRICT 4 GENERAL NOTES

### 105.04 SOIL REPORT AVAILABILITY

THE SOILS REPORT AND ALL SOILS DATA COLLECTED AND PROCESSED IN CONJUNCTION WITH THE DESIGN OF THIS IMPROVEMENT IS ON FILE AT THE PEORIA COUNTY HIGHWAY DEPARTMENT OFFICE WHERE IT IS AVAILABLE FOR INSPECTION BY CONTRACTORS OR PROSPECTIVE BIDDERS. BY SUBMITTING A BID, THE CONTRACTOR ACKNOWLEDGES THAT THE SOILS REPORT AND DATA HAVE BEEN MADE AVAILABLE, THAT THE CONTRACTOR IS AWARE OF THE REPORT CONTENTS AND APPENDICES, AND THAT THE SOILS REPORT IS PART OF THE CONTRACT DOCUMENTS.

### 105.06 AVAILABILITY OF ELECTRONIC FILES

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 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.

### 105.09A PLAN ELEVATIONS - U.S.G.S. MEAN SEA LEVEL DATUM

ALL ELEVATIONS SHOWN ON THE PLANS ARE ESTABLISHED FROM U.S.G.S. MEAN SEA LEVEL DATUM.

### 107.00 COMMITMENTS

COMMITMENTS ARE NOT TO BE ALTERED WITHOUT THE WRITTEN APPROVAL OF ALL PARTIES TO WHICH THE COMMITMENT WAS MADE.

### 107.09 PROPERTY OWNER ACCESS REQUIREMENTS

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

### 108.02 CRITICAL PATH WORK SCHEDULE REQUIREMENT

THE CONTRACTOR WILL SUBMIT TO THE ENGINEER A SATISFACTORY PROGRESS SCHEDULE AND CRITICAL PATH SCHEDULE WHICH SHALL SHOW THE PROPOSED SEQUENCE OF WORK AT THE TIME OF THE PRE-CONSTRUCTION CONFERENCE.

### 201.01 CLEARING

AT LOCATIONS WHERE CLEARING IS INDICATED ON THE PLANS BEYOND THE LIMITS OF THE PROPOSED EXCAVATION OR EMBANKMENT, THE CONTRACTOR SHALL RESTORE THE DISTURBED EARTH BY BLADING AND SHAPING TO BLEND WITH THE ADJACENT GROUND. THE CLEARING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE EXCAVATION PAY ITEMS IN THE PLANS. PAYMENT FOR RESEEDING OR RESODDING WILL BE AS PROVIDED IN THE PLANS.

### BITUMINOUS MATERIALS (TACK & PRIME COAT) RATES

SURFACE TYPE:	RESIDUAL RATE	
	PRIME COAT	TACK COAT
AGGREGATE:	0.25 LB / SQ FT	NA
FOG COAT (BETWEEN LIFTS):	NA	0.08 LB / SQ FT

### 204.00 ENVIRONMENTAL REVIEWS

PRIOR TO THE USE OF ANY PROPOSED BORROW AREAS, USE AREAS (TEMPORARY ACCESS ROADS, DETOURS, RUN-AROUNDS, ETC.) AND/OR WASTE AREAS, THE CONTRACTOR SHALL FILE THE REQUIRED ENVIRONMENTAL RESOURCE REQUEST SURVEYS ACCORDING TO SECTION 107.22 OF THE STANDARD SPECIFICATIONS. THESE SURVEYS ARE REQUIRED IN ORDER FOR THE DEPARTMENT TO CONDUCT CULTURAL AND BIOLOGICAL RESOURCE SURVEYS FOR THE PROPOSED SITE.

THE REQUIRED ENVIRONMENTAL RESOURCE DOCUMENTATION SHALL INCLUDE THE FOLLOWING:

- \* BDE FORM 2289 (CULTURAL AND NATURAL RESOURCES REVIEW OF BORROW AREAS)
- \* BDE FORM 2290 (WASTE/USE AREA REVIEW)
- \* A LOCATION MAP SHOWING THE SIZE LIMITS AND LOCATION OF THE USE AREA
- \* COLOR PHOTOGRAPHS DEPICTING THE USE AREA
- \* BORROW AREA ENTRY AGREEMENT FORM - D4 PI0101

PRIOR TO ANY WASTE MATERIALS BEING REMOVED FROM THE CONSTRUCTION SITE THE REQUIRED ENVIRONMENTAL RESOURCE SURVEYS SHALL BE OBTAINED AND FILED BY THE CONTRACTOR. EXCESS WASTE PRODUCTS REMOVED FROM THE CONSTRUCTION SITE SHALL BE DISPOSED OF AS REQUIRED IN SECTION 202.03 OF THE STANDARD SPECIFICATIONS.

ANY PROTRUDING METAL BARS SHALL BE REMOVED PRIOR TO THE DISPOSAL OF BROKEN CONCRETE AT APPROVED DISPOSAL SITES.

PLEASE NOTE THAT A MINIMUM OF FOUR WEEKS SHALL BE ALLOWED FOR THE DISTRICT TO OBTAIN THE REQUIRED ENVIRONMENTAL CLEARANCES AND SIX WEEKS FOR THE REQUIRED BORROW SITE ENVIRONMENTAL CLEARANCES.

### 351.08 AGGREGATE FOR DRIVEWAY REPLACEMENT

THE MATERIAL USED FOR CONSTRUCTION OF PERMANENT AGGREGATE DRIVEWAYS SHALL BE GRAVEL OR CRUSHED STONE, AS DIRECTED BY THE ENGINEER, TO REPLACE IN KIND THE EXISTING AGGREGATE DRIVEWAYS.

NO ADDITIONAL COMPENSATION SHALL BE PROVIDED FOR THIS REQUIREMENT BUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE PAY ITEM FOR THE AGGREGATE AS SPECIFIED ON THE PLANS.

### 542.00 ORDERING LENGTH CONFIRMATION - DRAINAGE ITEMS

THE CONTRACTOR SHALL CONSULT WITH THE ENGINEER IN REGARD TO THE EXACT LENGTH OF THE BOX/PIPE CULVERTS, STORM SEWERS, AND/OR PIPE DRAINS REQUIRED PRIOR TO ORDERING THESE ITEMS.

### 701.01 ADDITIONAL SUPPLEMENTAL TRAFFIC CONTROL

THE DEPARTMENT RESERVES THE RIGHT AT ANY TIME TO ADD ADDITIONAL TRAFFIC CONTROL SYSTEMS OR DEVICES WITHIN THE ACTIVE CONTRACT LIMITS, BY MEANS OF AN ADDITIONAL CONTRACT. ALL TERMS OF ARTICLE 105.08 OF THE STANDARDS SPECIFICATIONS SHALL BE FOLLOWED BY EACH CONTRACTOR.



USER NAME = brennar	DESIGNED - LJ	REVISED -
	DRAWN - LJ	REVISED -
PLOT SCALE = 2,000 ' / in.	CHECKED - JH	REVISED -
PLOT DATE = 4/30/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**STANDARDS AND GENERAL NOTES  
STREITMATTER RD OVER BRANCH OF SPOON RIVER**

SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. TO STA.

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	2
			CONTRACT NO. 89750	
		ILLINOIS	FED. AID PROJECT NO. 4BB7(944)	

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SUMMARY OF QUANTITIES			
SP	ITEM NUMBER	ITEM	QUANTITY
	20200100	EARTH EXCAVATION	435
	21101615	TOPSOIL FURNISH AND PLACE, 4"	2142
	25000210	SEEDING, CLASS 2A	0.44
	25000400	NITROGEN FERTILIZER NUTRIENT	43
	25000500	PHOSPHORUS FERTILIZER NUTRIENT	43
	25000600	POTASSIUM FERTILIZER NUTRIENT	43
	25100115	MULCH, METHOD 2	0.44
	25100635	HEAVY DUTY EROSION CONTROL BLANKET	2142
	28000250	TEMPORARY EROSION CONTROL SEEDING	47
	28000305	TEMPORARY DITCH CHECKS	48
	28000400	PERIMETER EROSION BARRIER	906
	28100107	STONE RIPRAP, CLASS A4	911
	28200200	FILTER FABRIC	911
	35101400	AGGREGATE BASE COURSE, TYPE B	474
	40200800	AGGREGATE SURFACE COURSE, TYPE B	2
	40600275	BITUMINOUS MATERIALS (PRIME COAT)	1776

SUMMARY OF QUANTITIES			
SP	ITEM NUMBER	ITEM	QUANTITY
	40600290	BITUMINOUS MATERIALS (TACK COAT)	568
	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	177
	40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	88
	42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	80
	44000100	PAVEMENT REMOVAL	916
	48101200	AGGREGATE SHOULDERS, TYPE B	51
*	50100100	REMOVAL OF EXISTING STRUCTURES	1
	50200100	STRUCTURE EXCAVATION	245
	50300225	CONCRETE STRUCTURES	60
	50300255	CONCRETE SUPERSTRUCTURE	113.7
	50300260	BRIDGE DECK GROOVING	426
	50300300	PROTECTIVE COAT	546
	50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	90.8
	50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	1
	50500505	STUD SHEAR CONNECTORS	1050
	50800205	REINFORCEMENT BARS, EPOXY COATED	67730



USER NAME = brennar  
 PLOT SCALE = 2.0000 ' / in.  
 PLOT DATE = 4/30/2019

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 DRAWN - LJ  
 CHECKED - JH  
 DATE -

REVISED -  
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STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
 STREITMATTER RD OVER BRANCH OF SPOON RIVER

SCALE: NTS SHEET NO. 1 OF 2 SHEETS STA. TO STA.

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	3
			CONTRACT NO. 89750	
ILLINOIS FED. AID PROJECT NO. 48B7(944)				

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SUMMARY OF QUANTITIES			
SP	ITEM NUMBER	ITEM	QUANTITY
	51201900	FURNISHING STEEL PILES HP14X89	292
	51202305	DRIVING PILES	292
	51203900	TEST PILE STEEL HP14X89	2
	51204650	PILE SHOES	10
	51500100	NAME PLATES	1
	52100520	ANCHOR BOLTS, 1"	20
	58600101	GRANULAR BACKFILL FOR STRUCTURES	116
	59100100	GEOCOMPOSITE WALL DRAIN	68
Δ	63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	4
Δ	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	4
	66600105	FURNISHING AND ERECTING RIGHT OF WAY MARKERS	8
	67000500	ENGINEER'S FIELD OFFICE, TYPE B	4
	67100100	MOBILIZATION	1
Δ	72501000	TERMINAL MARKER - DIRECT APPLIED	4
Δ	78200005	GUARDRAIL REFLECTORS, TYPE A	4
Δ	78200011	BARRIER WALL REFLECTORS, TYPE C	8

Δ SPECIALTY ITEMS

SUMMARY OF QUANTITIES			
SP	ITEM NUMBER	ITEM	QUANTITY
*	X0325446	SHOULDER INLET WITH CURB (4 FT SHOULDER)	2
*	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	1
*	Z0001002	GUARDRAIL AGGREGATE EROSION CONTROL	36
*	Z0013798	CONSTRUCTION LAYOUT	1
*	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	130



USER NAME = bretnar  
 PLOT SCALE = 2.0000' / 1 in.  
 PLOT DATE = 4/30/2019

DESIGNED - LJ  
 DRAWN - LJ  
 CHECKED - JH  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES  
 STRAITMATTER RD OVER BRANCH OF SPOON RIVER

SCALE: NTS SHEET NO. 2 OF 2 SHEETS STA. TO STA.

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	4
CONTRACT NO. 89750				
ILLINOIS FED. AID PROJECT NO. 48B7(944)				

TRAFFIC CONTROL SCHEDULE		
LOCATION		X7010216 TRAFFIC CONTROL AND PROTECTION, (SPECIAL)
BEGIN STATION	END STATION	LSUM
24+00.00	28+95.00	1
TOTAL		1

MOBILIZATION		
LOCATION		67100100 MOBILIZATION
BEGIN STATION	END STATION	LSUM
24+00.00	28+95.00	1
TOTAL		1

CONSTRUCTION LAYOUT SCHEDULE		
LOCATION		Z0013798 CONSTRUCTION LAYOUT
BEGIN STATION	END STATION	LSUM
24+00.00	28+95.00	1
TOTAL		1

EARTHWORK					
LOCATION		20200100			
		EARTH EXCAVATION	SUITABLE EXCAVATION ADJUSTED FOR SHRINKAGE (25%)	EMBANKMENT	EARTH BALANCE WASTE (+) OR SHORTAGE (-)
STATION TO	STATION	CU YD	CU YD	CU YD	CU YD
24+00	TO 25+64	150	115	125	-10
25+64	TO 25+93	45	35	90	-55
BRIDGE OMISSION (SEE STRUCTURAL PLANS)					
26+71	TO 27+00	30	25	70	-45
25+93	TO 28+95	210	160	150	10
TOTAL		435	335	435	-100 *

\*NOTE: EARTH BALANCE SHORTAGE TO BE FILLED WITH SUITABLE MATERIAL FROM THE EARTH EXCAVATION INCLUDED IN REMOVAL OF EXISTING STRUCTURES

EROSION CONTROL SCHEDULE						
LOCATION			28000400	28000305	28000250	25100115
			PERIMETER EROSION BARRIER	TEMPORARY DITCH CHECKS	TEMPORARY EROSION CONTROL SEEDING	MULCH, METHOD 2
BEGIN STATION	END STATION	OFFSET	FOOT	FOOT	POUND	ACRE
24+00.00	26+10.00	RT	219	24	11	0.10
24+00.00	26+02.00	LT	204	12	10	0.09
26+70.00	28+95.00	RT	226		13	0.13
26+40.00	28+95.00	LT	257	12	13	0.12
TOTAL			906	48	47	0.44

RIPRAP SCHEDULE			
LOCATION		28100107	28200200
		STONE RIPRAP, CLASS A4	FILTER FABRIC
LOCATION	OFFSET	SQ YD	SQ YD
DITCH 25+46.85 TO 26+35.80	RT	89	89
OUTLET 27+05.26 TO 27+10.96	RT	11	11
OUTLET 27+05.26 TO 27+11.08	LT	11	11
TOTAL		111	111

NOTE: SEE STRUCTURE SHEETS FOR ADDITIONAL RIPRAP AND FILTER FABRIC LOCATIONS.

PAVING SCHEDULE										
LOCATION		35101400	40200800	40603080	40603310	42000070	48101200	40600290	40600275	44000100
		AGGREGATE BASE COURSE, TYPE B	AGGREGATE SURFACE COURSE, TYPE B	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	AGGREGATE SHOULDERS, TYPE B	BITUMINOUS MATERIALS (TACK COAT)	BITUMINOUS MATERIALS (PRIME COAT)	PAVEMENT REMOVAL
BEGIN STATION	END STATION	TON	TON	TON	TON	SQ YD	TON	POUND	POUND	SQ YD
24+00.00	25+63.94	216		81	40	47	26	259	810	444
27+00.00	28+95.00	258		96	48	33	25	309	966	472
Driveways										
24+71.00	(RT.)		2							
TOTAL		474	2	177	88	80	51	568	1776	916

STEEL PLATE GUARDRAIL SCHEDULE						
LOCATION			63100085	63100167	72501000	Z0001002
			TRAFFIC BARRIER TERMINAL, TYPE 6	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL AGGREGATE EROSION CONTROL
BEGIN STATION	END STATION	OFFSET	EACH	EACH	EACH	TON
24+99.51	25+75.51	LT	1	1	1	9
25+08.36	25+84.36	RT	1	1	1	9
26+79.61	27+55.61	LT	1	1	1	9
26+88.49	27+64.49	RT	1	1	1	9
TOTAL			4	4	4	36

DRAINAGE SCHEDULE			
LOCATION		X0325446	50300300
		SHOULDER INLET WITH CURB (4 FT SHOULDER)	PROTECTIVE COAT
STATION	RT/LT	EACH	SQ YD
27+10.00	LT	1	9
27+09.71	RT	1	5
TOTAL		2	14

NOTE: SEE STRUCTURE SHEETS FOR ADDITIONAL PROTECTIVE COAT LOCATIONS.

GUARDRAIL REFLECTORS				
LOCATION		78200005	78200011	
		GUARDRAIL REFLECTORS, TYPE A	BARRIER WALL REFLECTORS, TYPE C	
STATION	OFFSET	EACH	EACH	
25+50	LT	1		
26+00	LT		2	
26+50	LT		2	
27+00	LT	1		
25+60	RT	1		
26+10	RT		2	
26+60	RT		2	
27+10	RT	1		
TOTAL		4	8	

LANDSCAPING SCHEDULE								
LOCATION			21101615	25000210	25000400	25000500	25000600	25100635
			TOPSOIL FURNISH AND PLACE, 4"	SEEDING, CLASS 2A	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	HEAVY DUTY EROSION CONTROL BLANKET
BEGIN STATION	END STATION	OFFSET	SQ YD	ACRE	POUND	POUND	POUND	SQ YD
24+00.00	25+91.00	RT	484	0.1	10	10	10	484
24+00.00	25+77.00	LT	446	0.09	9	9	9	446
26+87.00	28+95.00	RT	619	0.13	12	12	12	619
26+73.00	28+95.00	LT	593	0.12	12	12	12	593
TOTAL			2142	0.44	43	43	43	2142

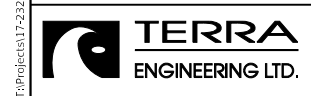
PIPE UNDERDRAINS	
LOCATION	CONCRETE HEADWALLS FOR PIPE DRAINS
	EACH
BK. OF W. ABUT.	2
BK. OF E. ABUT.	2
TOTAL	4

NOTE: PAYMENT FOR CONCRETE HEADWALLS FOR PIPE DRAIN INCLUDED IN THE COST FOR PIPE UNDERDRAINS FOR STRUCTURES, 4" (SEE GBSP 51).

RIGHT OF WAY MARKERS				
LOCATION			66600105	
			FURNISHING AND ERECTING RIGHT OF WAY MARKERS	
STATION	OFFSET	RT/LT	EACH	
25+30.00	33.00'	LT	1	
25+50.00	43.00'	LT	1	
27+20.00	43.00'	LT	1	
27+40.01	33.00'	LT	1	
25+40.00	33.00'	RT	1	
25+60.00	53.00'	RT	1	
26+25.00	53.00'	RT	1	
28+00.00	33.00'	RT	1	
TOTAL			8	

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USER NAME = brennar	DESIGNED - LJ	REVISED -
	DRAWN - LJ	REVISED -
PLOT SCALE = 2,000' / in.	CHECKED - JH	REVISED -
PLOT DATE = 4/30/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**SCHEDULES OF QUANTITIES  
STRETMATTER RD OVER BRANCH OF SPOON RIVER**

SCALE: NTS      SHEET NO. 1 OF 2 SHEETS      STA. TO STA.

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	5
CONTRACT NO. 89750				
ILLINOIS FED. AID PROJECT NO. 4BB7(944)				

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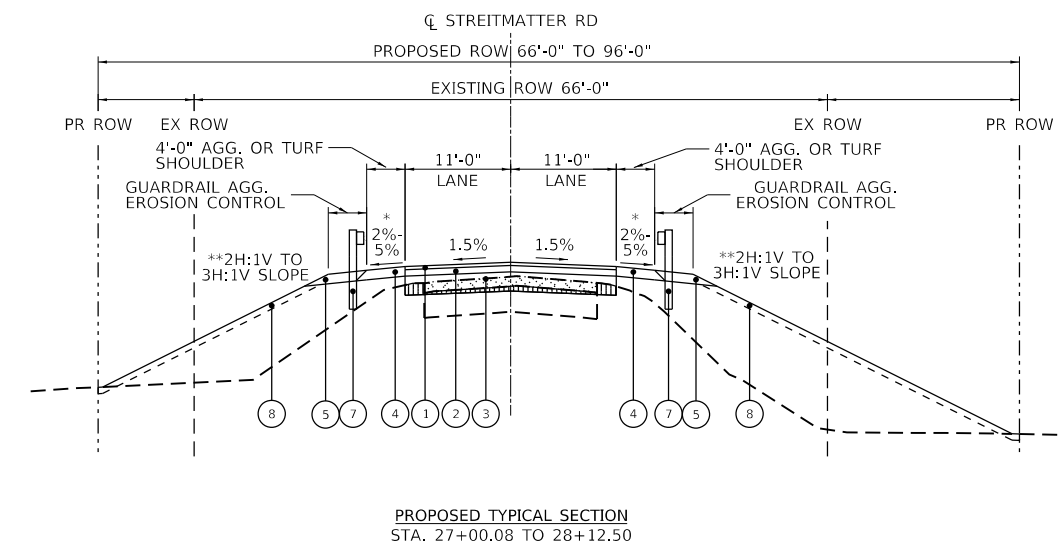
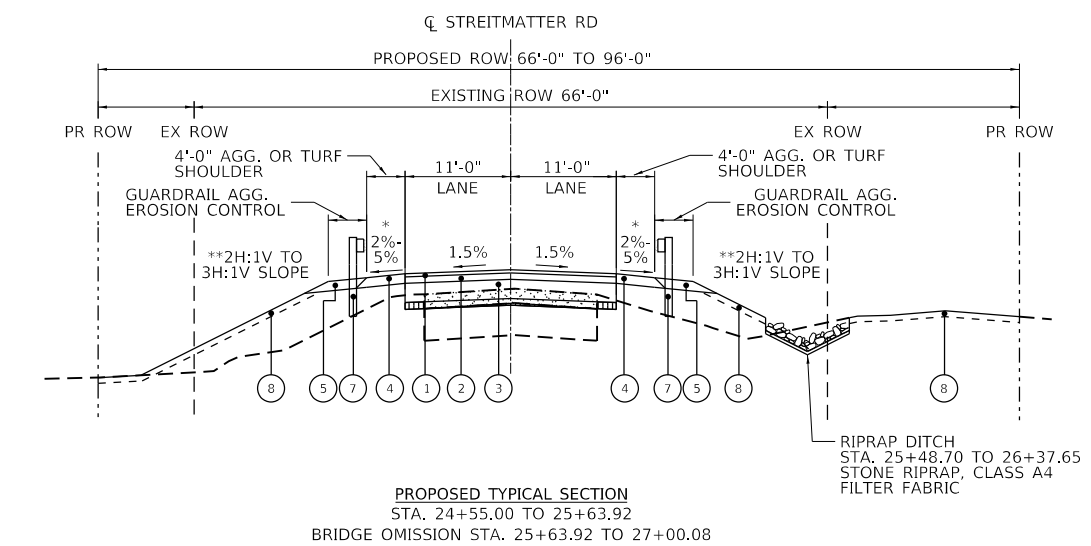
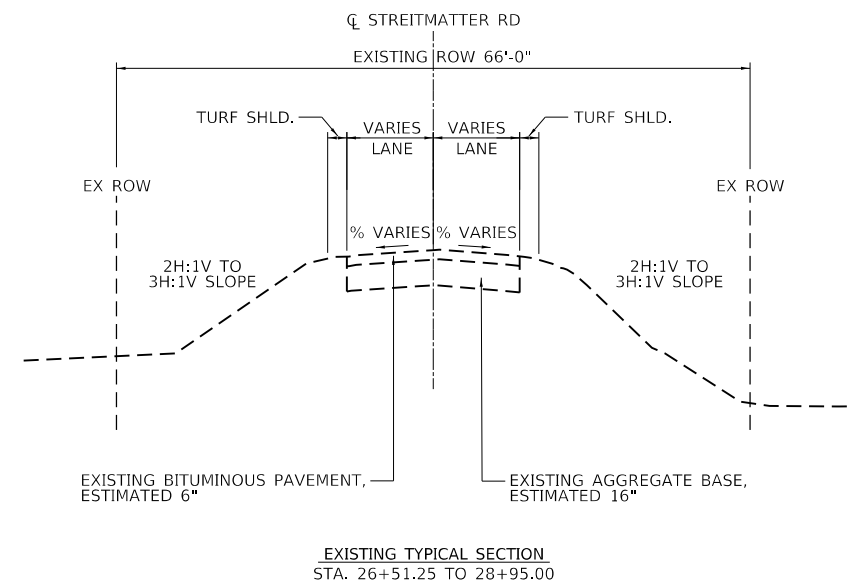
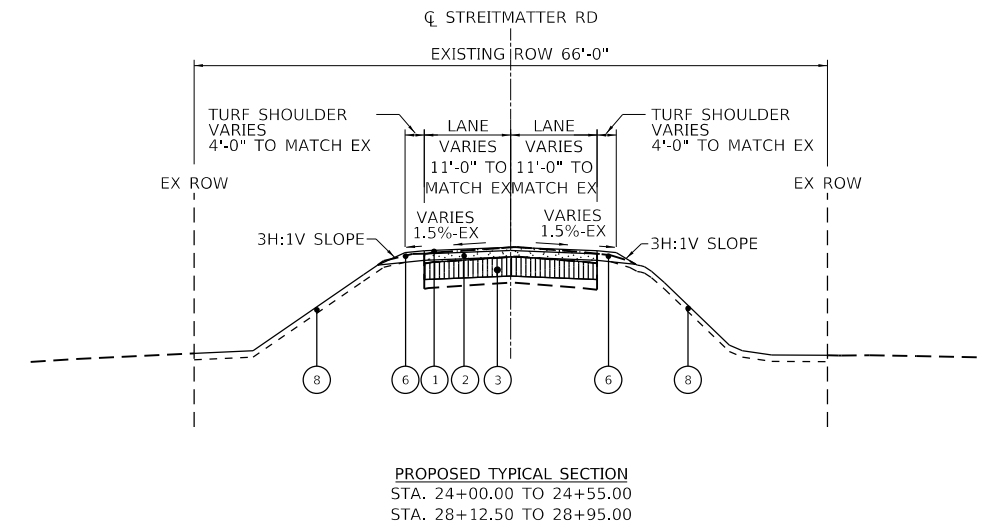
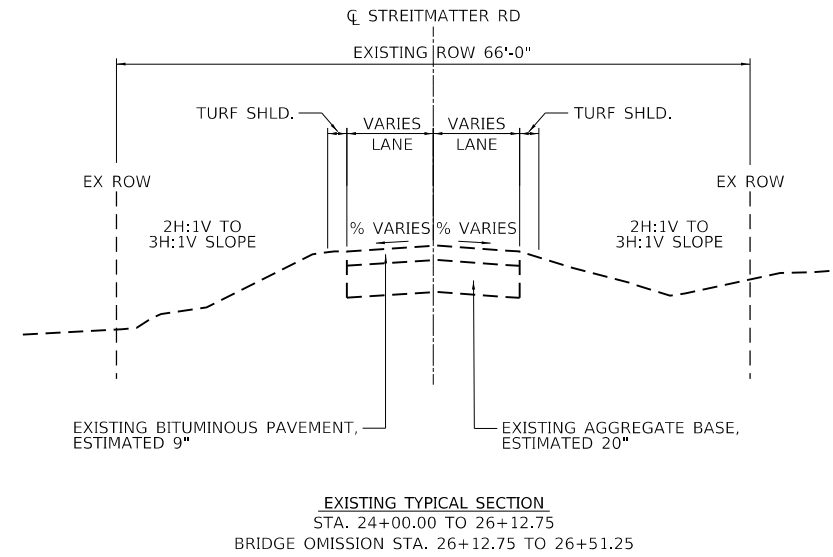
T:\Projects\17-232\_PCHD-Streitmatter Rd Bridge\Design\CADD\Transportation\CADD\_SnessID489750-shi005-Typical.dgn

**\*SHOULDER CROSS SLOPE TRANSITIONS**

STATION	SHOULDER CROSS SLOPE
24+00.00	MATCH EX.
24+55.00	5%
25+39.69	5%
25+59.69	2%
BRIDGE OMISSION	
27+13.60	2%
27+33.60	5%
28+12.50	5%
28+95.00	MATCH EX.

**\*\*EMBANKMENT SIDE SLOPE TRANSITIONS**

SIDE SLOPE	STATION (LT SIDE)	STATION (RT SIDE)
3H:1V	24+00.00	24+00.00
3H:1V	24+99.50	25+08.36
2H:1V	25+24.50	25+33.36
2H:1V	25+63.92	25+63.92
BRIDGE OMISSION		
2H:1V	27+00.08	27+00.08
2H:1V	27+55.39	27+64.50
3H:1V	27+80.39	28+29.50
3H:1V	28+95.00	28+95.00



**LEGEND**

- EXISTING PAVEMENT REMOVAL
- EARTH EXCAVATION
- PROPOSED HMA SURFACE COURSE, MIX "C", N50, 2 INCH
- PROPOSED HMA BINDER COURSE, IL-19.0, N50, 4 INCH
- PROPOSED AGGREGATE BASE COURSE, TYPE B, 12 INCH (TONS) (SEE NOTE)
- PROPOSED AGGREGATE SHOULDER, TYPE B, 6 INCH
- PROPOSED GUARDRAIL AGGREGATE EROSION CONTROL, 6 INCH
- PROPOSED EARTH SHOULDER (COST INCLUDED IN EARTH EXCAVATION)
- PROPOSED GUARDRAIL
- PROPOSED TOPSOIL FURNISH AND PLACE, 4"

NOTE: ALL EXISTING BITUMINOUS PAVEMENT MATERIAL SHALL BE REMOVED. THICKNESS MAY VARY FROM THAT SHOWN IN THE EXISTING TYPICAL SECTION. ADDITIONAL GRANULAR MATERIAL REQUIRED WILL BE PAID FOR AS AGGREGATE BASE COURSE, TYPE B, 12 INCH (TONS).



USER NAME = brennar	DESIGNED - LJ	REVISED -
	DRAWN - LJ	REVISED -
PLOT SCALE = 20.0000 ' / in.	CHECKED - CC	REVISED -
PLOT DATE = 4/30/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

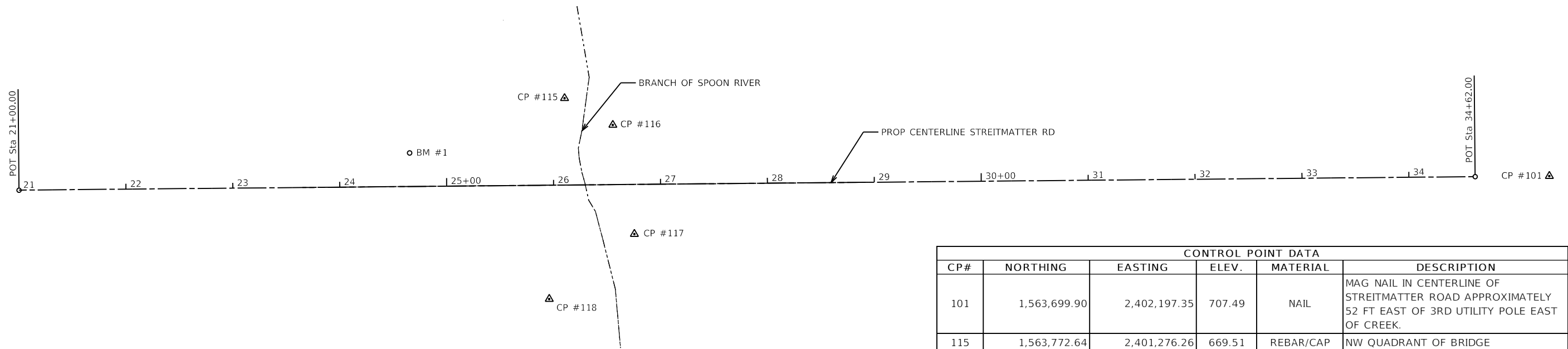
**TYPICAL SECTIONS  
STREITMATTER RD OVER BRANCH OF SPOON RIVER**

SCALE: NTS      SHEET NO. 1 OF 1 SHEETS      STA. TO STA.

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	6
CONTRACT NO. 89750				
ILLINOIS		FED. AID PROJECT NO. 48B7(944)		

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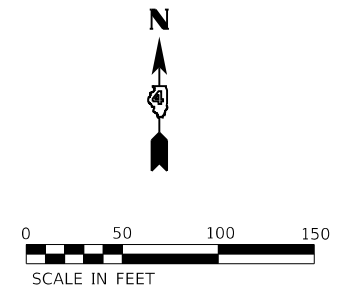
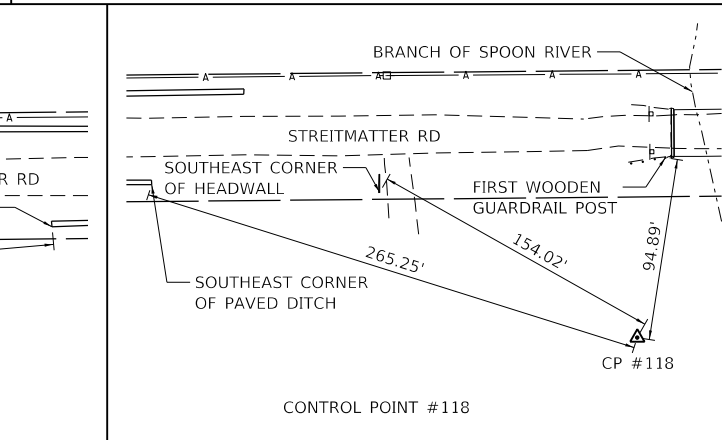
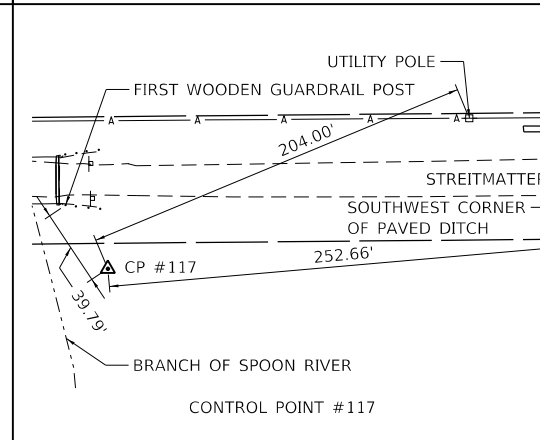
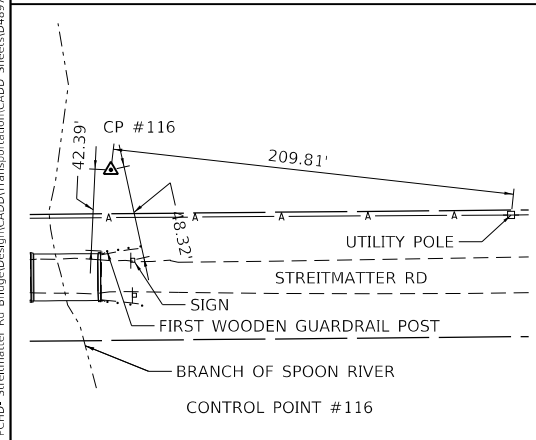
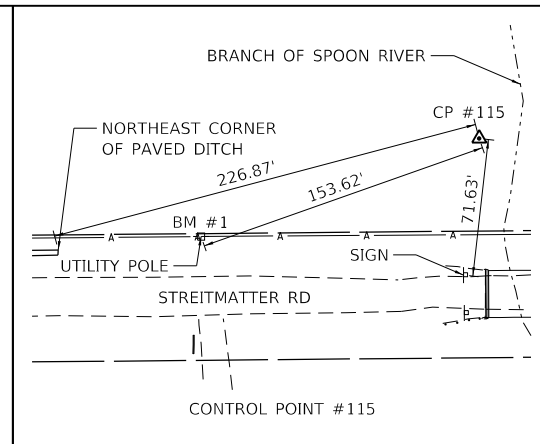
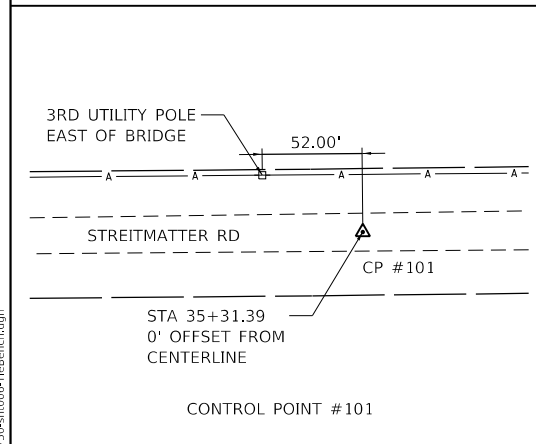
CONTROL POINT DATA					
CP#	NORTHING	EASTING	ELEV.	MATERIAL	DESCRIPTION
101	1,563,699.90	2,402,197.35	707.49	NAIL	MAG NAIL IN CENTERLINE OF STREITMATTER ROAD APPROXIMATELY 52 FT EAST OF 3RD UTILITY POLE EAST OF CREEK.
115	1,563,772.64	2,401,276.26	669.51	REBAR/CAP	NW QUADRANT OF BRIDGE
116	1,563,747.64	2,401,321.36	671.26	REBAR/CAP	NE QUADRANT OF BRIDGE
117	1,563,645.73	2,401,341.56	671.85	REBAR/CAP	SE QUADRANT OF BRIDGE
118	1,563,585.02	2,401,261.92	676.58	REBAR/CAP	SW QUADRANT OF BRIDGE

ELEVATIONS ON CP TABLE SHOWN FOR INFORMATIONAL PURPOSES ONLY

BENCHMARK DATA					
BM#	NORTHING	EASTING	ELEV.	LOCATION	DESCRIPTION
1	1,563,721.54	2,401,131.39	683.88	RAILROAD SPIKE	RAILROAD SPIKE IN SOUTH FACE OF FIRST UTILITY POLE WEST OF BRIDGE ADJACENT TO NORTH ROW OF STREITMATTER ROAD

COORDINATES ON BENCHMARK TABLE SHOWN FOR INFORMATIONAL PURPOSES ONLY

STREITMATTER BASELINE			
CONTROL POINT	STATION	COORDINATES	
		NORTHING	EASTING
POT	21+00.00	1,563,686.67	2,400,766.02
POT	34+62.00	1,563,699.26	2,402,127.97



USER NAME = brennar  
 PLOT SCALE = 100,000.2' / in.  
 PLOT DATE = 4/30/2019

DESIGNED - JS  
 DRAWN - JS  
 CHECKED - JH  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

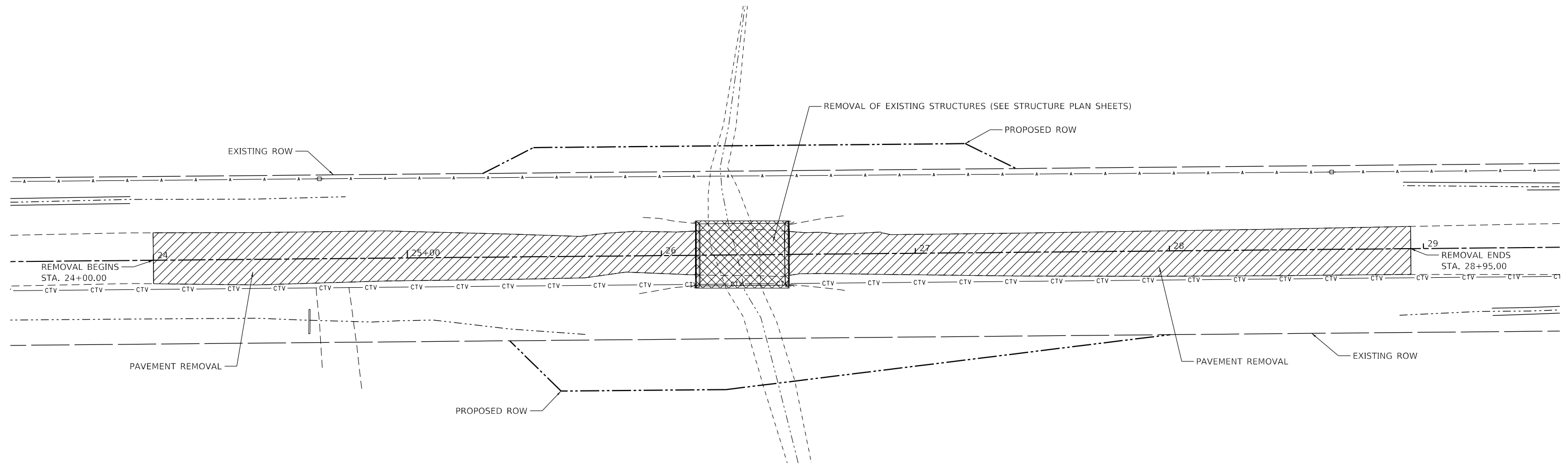
**ALIGNMENT, BENCHMARK, AND TIES  
 STREITMATTER RD OVER BRANCH OF SPOON RIVER**

SCALE: 1"=50' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	7
CONTRACT NO. 89750				
ILLINOIS FED. AID PROJECT NO. 48B7(944)				

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**NOTES:**

1. SEE SPECIAL PROVISION FOR CLEARING.
2. EXISTING TEMPORARY CONCRETE BARRIERS AND EXISTING TRAFFIC CONTROL SIGNAGE SHALL BE SALVAGED AND RETURNED TO PEORIA COUNTY HIGHWAY DEPARTMENT AT THE BELOW ADDRESS. RETURN SHALL BE COORDINATED WITH THE ENGINEER.

PEORIA COUNTY HIGHWAY DEPARTMENT  
 NORTH STATION FACILITY  
 15047 N. EVANS MILL ROAD  
 PRINCEVILLE, IL 61559



USER NAME = brennar	DESIGNED - LJ	REVISED -
	DRAWN - LJ	REVISED -
PLOT SCALE = 40.0001 ' / in.	CHECKED - JH	REVISED -
PLOT DATE = 4/30/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN  
 STREITMATTER RD OVER BRANCH OF SPOON RIVER**

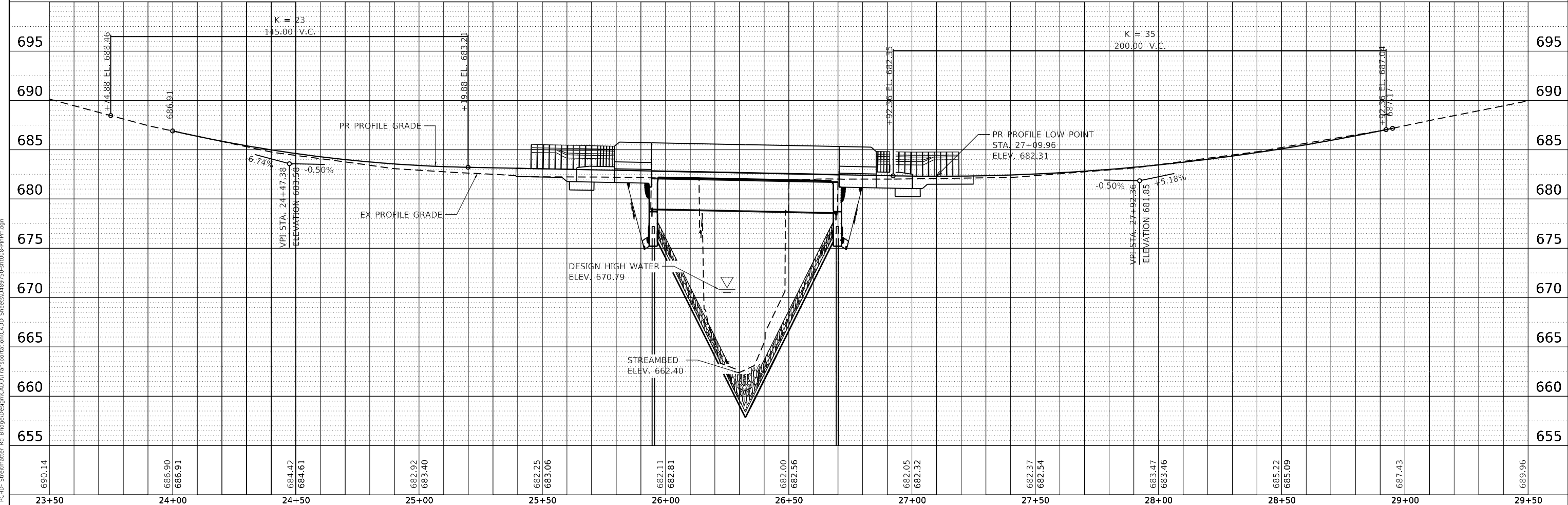
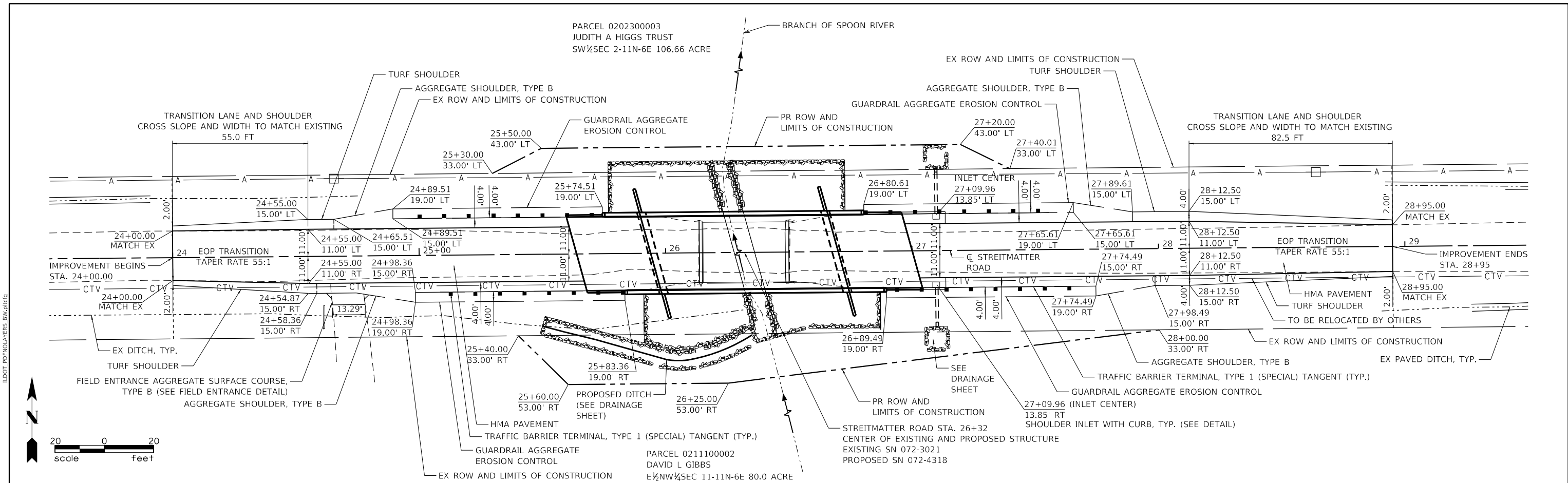
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T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 89750				
ILLINOIS FED. AID PROJECT NO. 48B7(944)				

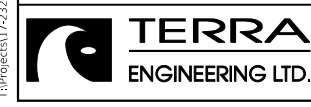


DATE	
BY	
PLAN	SURVEYED
	ALIGNED
	CHECKED
	NO. _____
	NO. _____
	NO. _____
	NO. _____
	NO. _____
	NO. _____

DATE	
BY	
PROFILE	SURVEYED
	GRADES CHECKED
	STRUCTURE NOT AT THIS OFFICE
	NO. _____
	NO. _____
	NO. _____
	NO. _____
	NO. _____
	NO. _____



690.14	686.90	686.91	684.42	684.61	682.92	683.40	682.25	683.06	682.11	682.81	682.00	682.56	682.05	682.32	682.37	682.54	683.47	683.46	685.22	685.09	687.43	689.96
23+50	24+00	24+50	25+00	25+50	26+00	26+50	27+00	27+50	28+00	28+50	29+00	29+50										



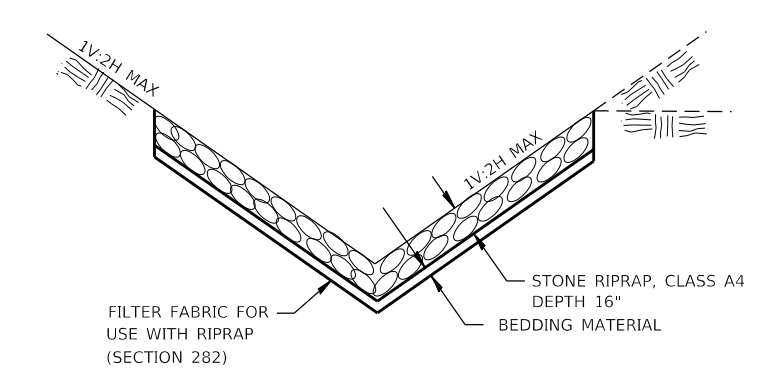
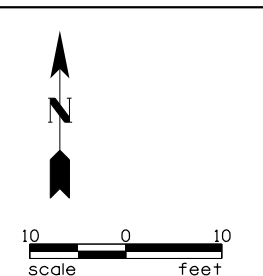
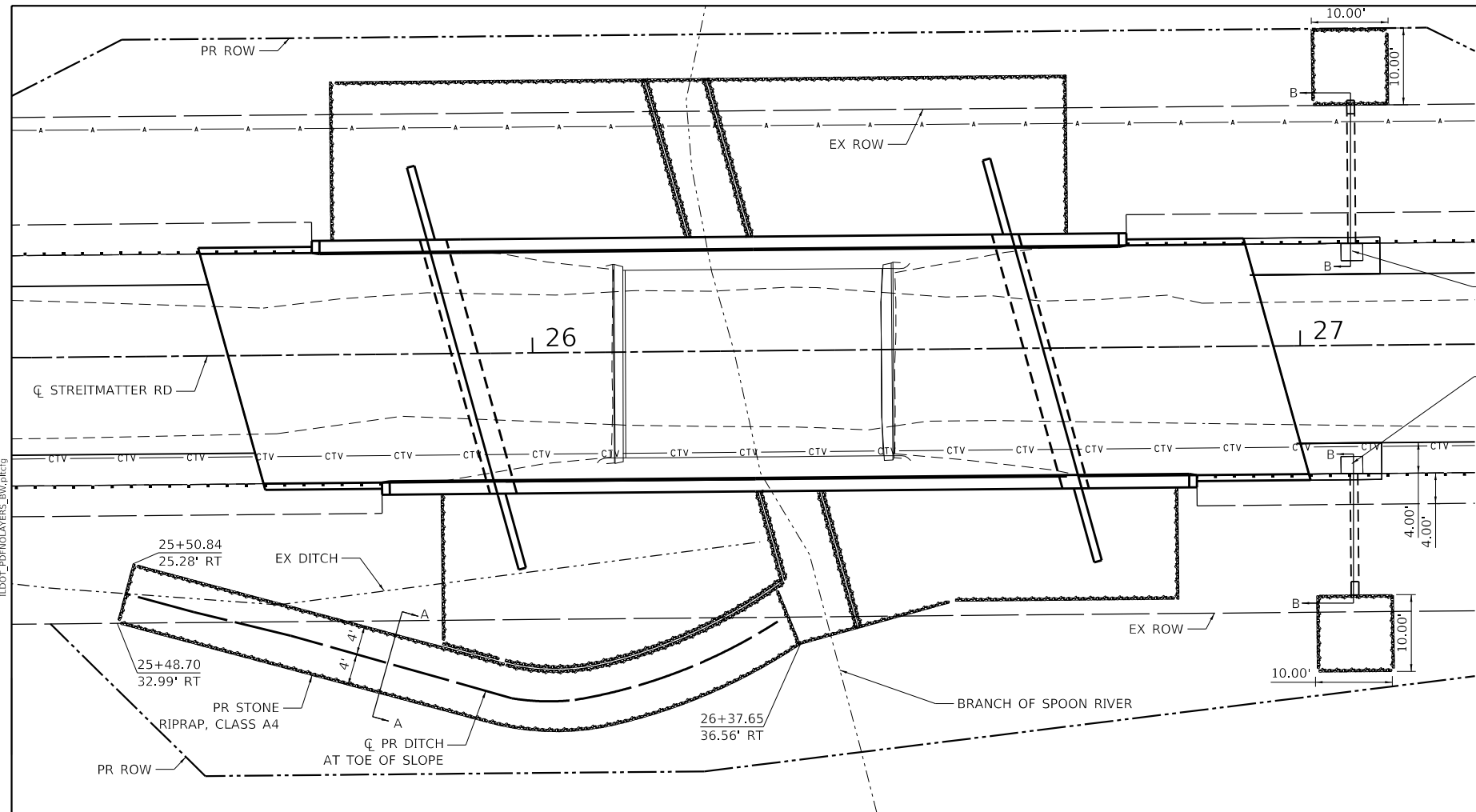
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PLOT SCALE = 40.0001' / in.	DRAWN - LJ	REVISOR -
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	DATE -	REVISOR -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

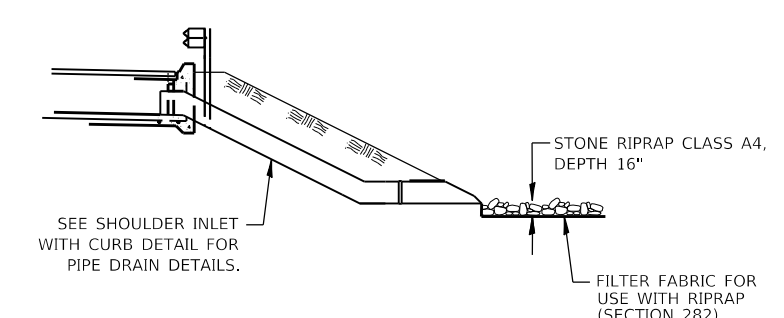
**PLAN AND PROFILE  
STREITMATTER RD OVER BRANCH OF SPOON RIVER**

SCALE: 1"=20'    SHEET NO. 1 OF 1 SHEETS    STA.    TO STA.

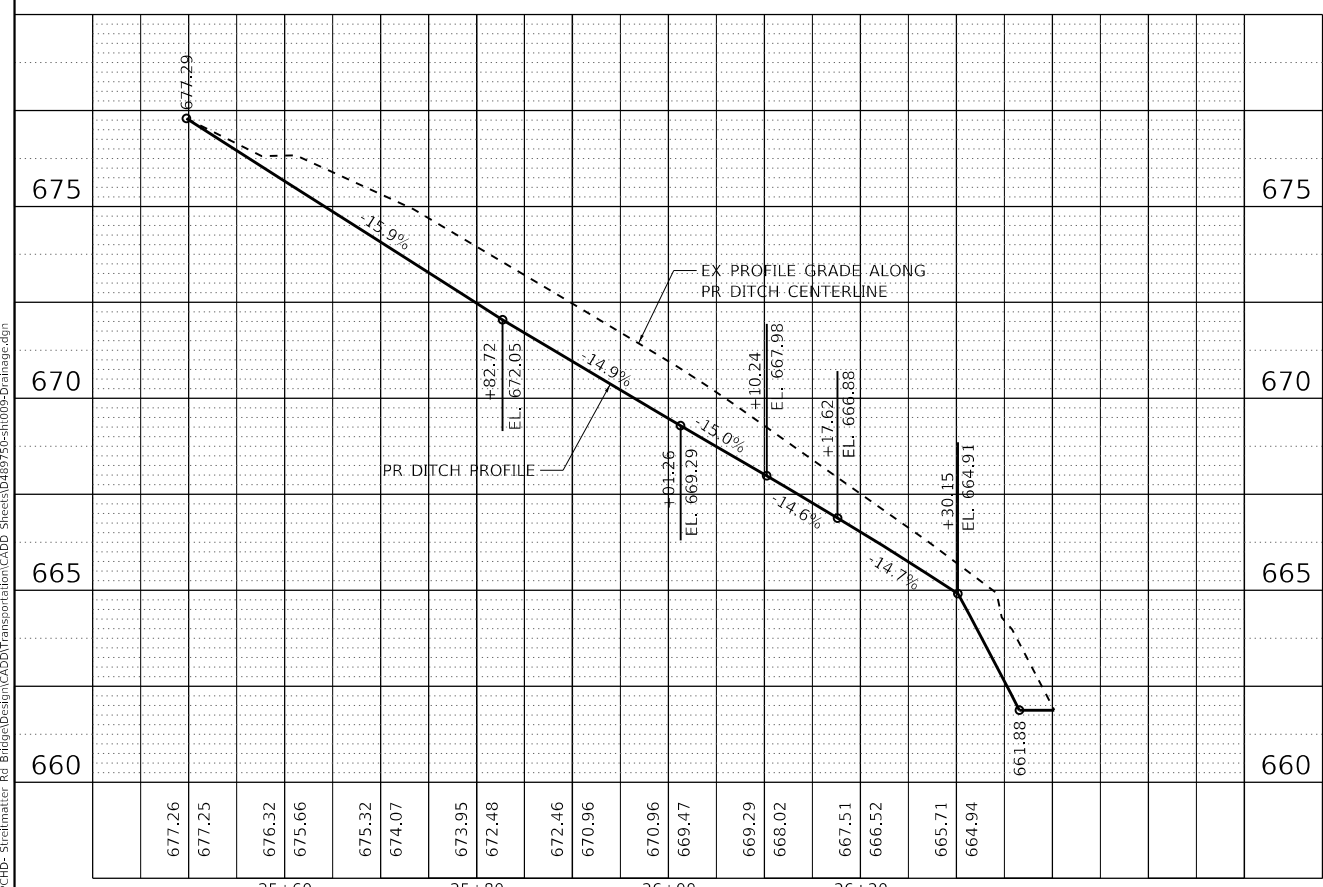
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	9
CONTRACT NO. 89750			ILLINOIS FED. AID PROJECT NO. 48B7(944)	



**SECTION A-A**  
NOT TO SCALE



**SECTION B-B**  
NOT TO SCALE



677.26	677.25	676.32	675.66	675.32	674.07	673.95	672.48	672.46	670.96	670.96	669.47	669.29	668.02	667.51	666.52	665.71	664.94	661.88
25+60			25+80						26+00					26+20				



USER NAME = brennar	DESIGNED - CC	REVISED -
PLOT SCALE = 20.0000' / in.	DRAWN - CC	REVISED -
PLOT DATE = 4/30/2019	CHECKED - JH	REVISED -
	DATE -	REVISED -

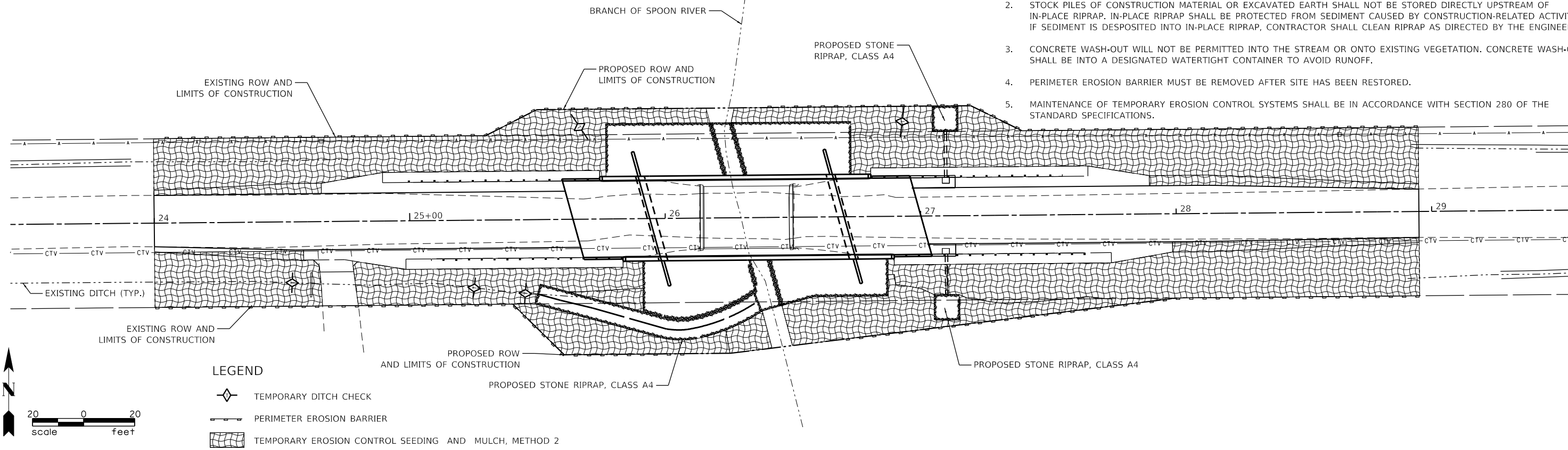
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE PLAN  
STREITMATTER RD OVER BRANCH OF SPOON RIVER**

SCALE: 1"=20'	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.
---------------	-------------------------	--------------

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	10
CONTRACT NO. 89750				
ILLINOIS FED. AID PROJECT NO. 48B7(944)				

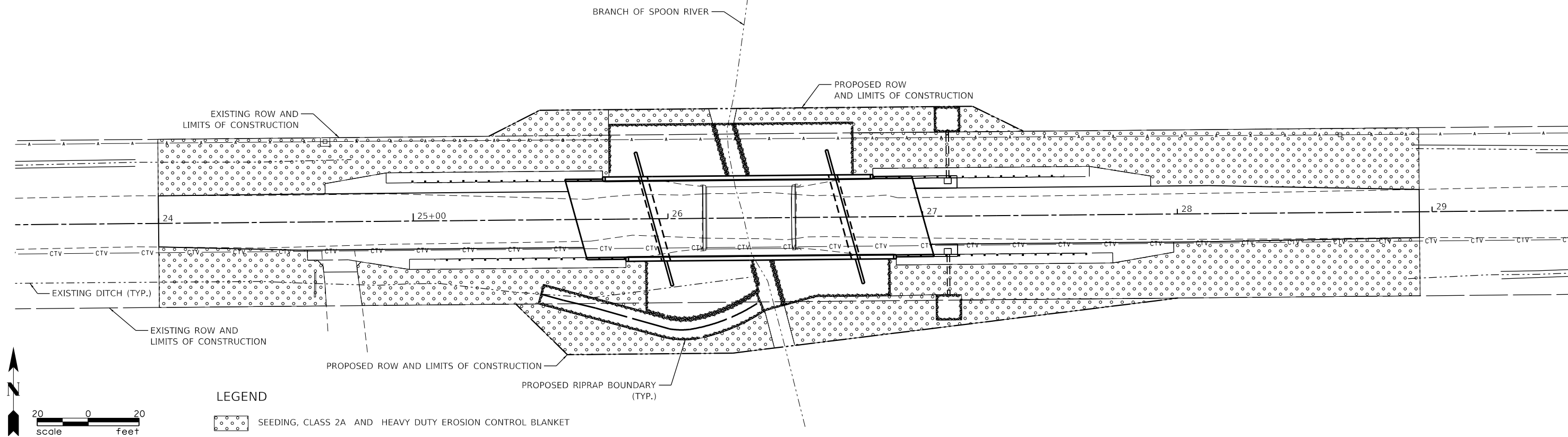
**EROSION CONTROL PLAN**



TEMPORARY EROSION CONTROL NOTES

1. ALL SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL PRIOR TO DISTURBING ANY ESTABLISHED SURFACE. DEVICES SHALL REMAIN IN GOOD WORKING ORDER UNTIL SITE HAS BEEN RESTORED, OR AS DIRECTED BY THE ENGINEER.
2. STOCK PILES OF CONSTRUCTION MATERIAL OR EXCAVATED EARTH SHALL NOT BE STORED DIRECTLY UPSTREAM OF IN-PLACE RIPRAP. IN-PLACE RIPRAP SHALL BE PROTECTED FROM SEDIMENT CAUSED BY CONSTRUCTION-RELATED ACTIVITIES. IF SEDIMENT IS DEPOSITED INTO IN-PLACE RIPRAP, CONTRACTOR SHALL CLEAN RIPRAP AS DIRECTED BY THE ENGINEER.
3. CONCRETE WASH-OUT WILL NOT BE PERMITTED INTO THE STREAM OR ONTO EXISTING VEGETATION. CONCRETE WASH-OUT SHALL BE INTO A DESIGNATED WATERTIGHT CONTAINER TO AVOID RUNOFF.
4. PERIMETER EROSION BARRIER MUST BE REMOVED AFTER SITE HAS BEEN RESTORED.
5. MAINTENANCE OF TEMPORARY EROSION CONTROL SYSTEMS SHALL BE IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS.

**LANDSCAPING PLAN**



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USER NAME = brennar	DESIGNED - JH	REVISED -
PLOT SCALE = 40,0001' / in.	DRAWN - JH	REVISED -
PLOT DATE = 4/30/2019	CHECKED - CC	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

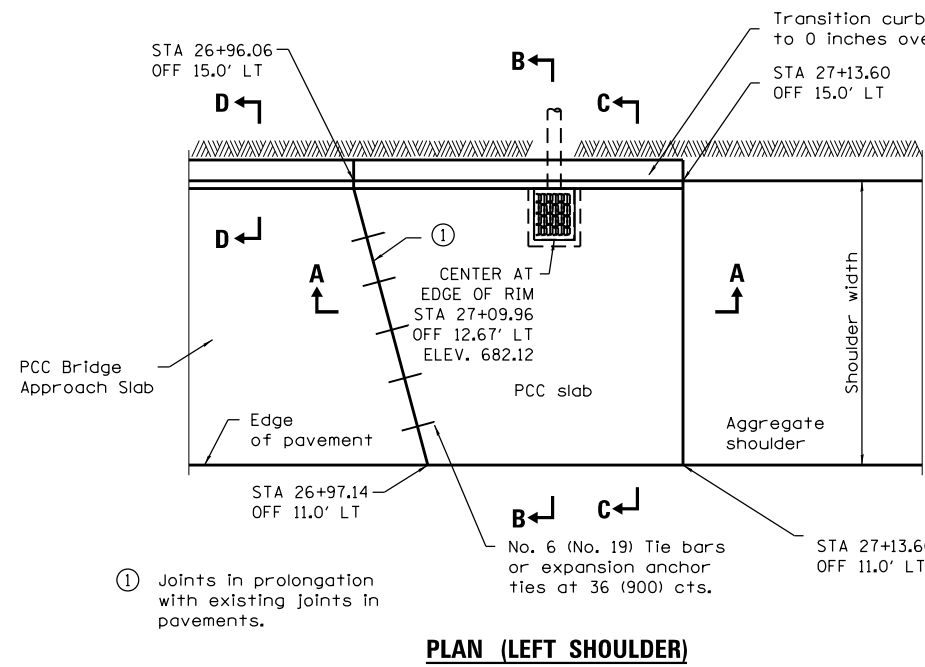
**EROSION CONTROL AND LANDSCAPING PLAN  
STREITMATTER RD OVER BRANCH OF SPOON RIVER**

SCALE: 1"=20' SHEET NO. 1 OF 1 SHEETS STA. TO STA.

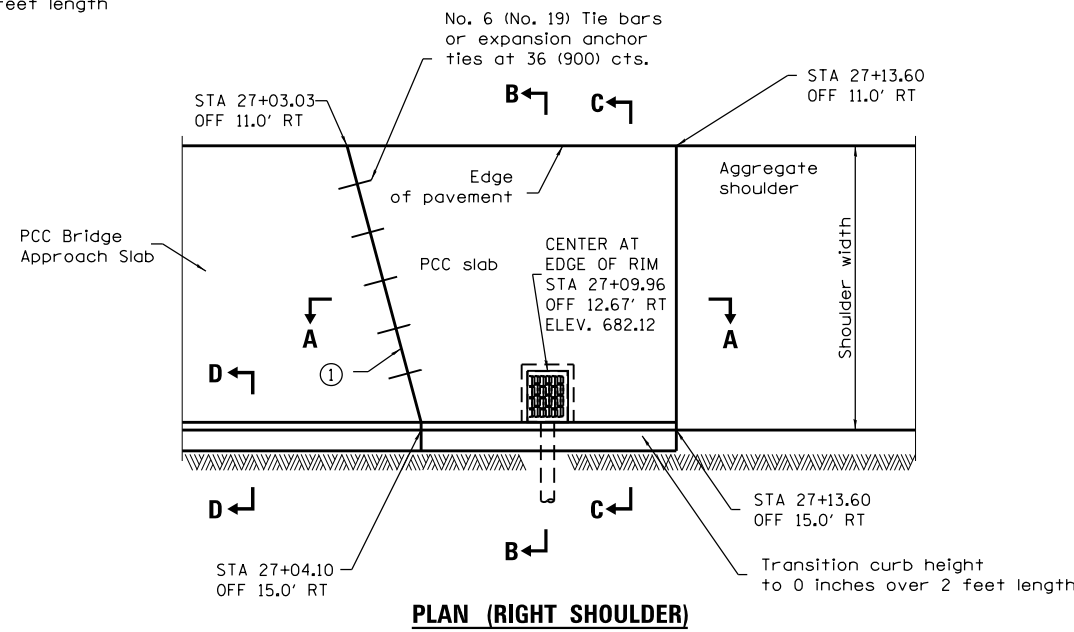
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	11
CONTRACT NO. 89750				
ILLINOIS FED. AID PROJECT NO. 48B7(944)				

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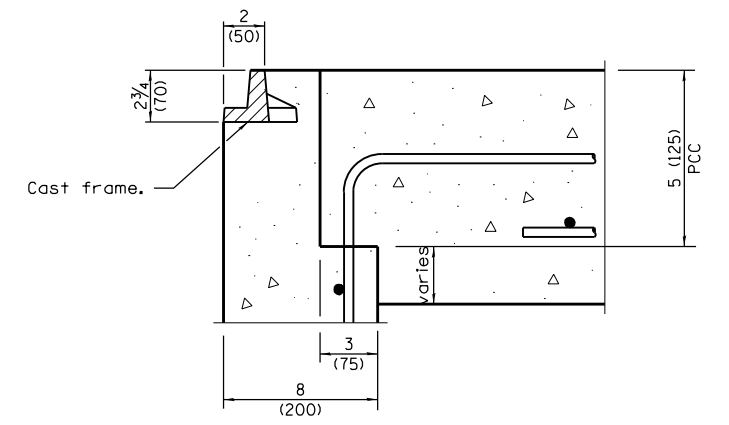
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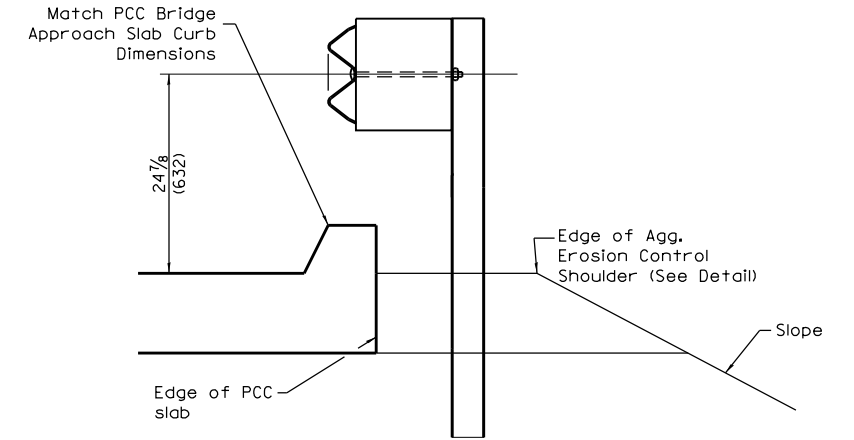
**PLAN (LEFT SHOULDER)**



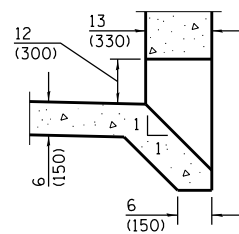
**PLAN (RIGHT SHOULDER)**



**DETAIL A**

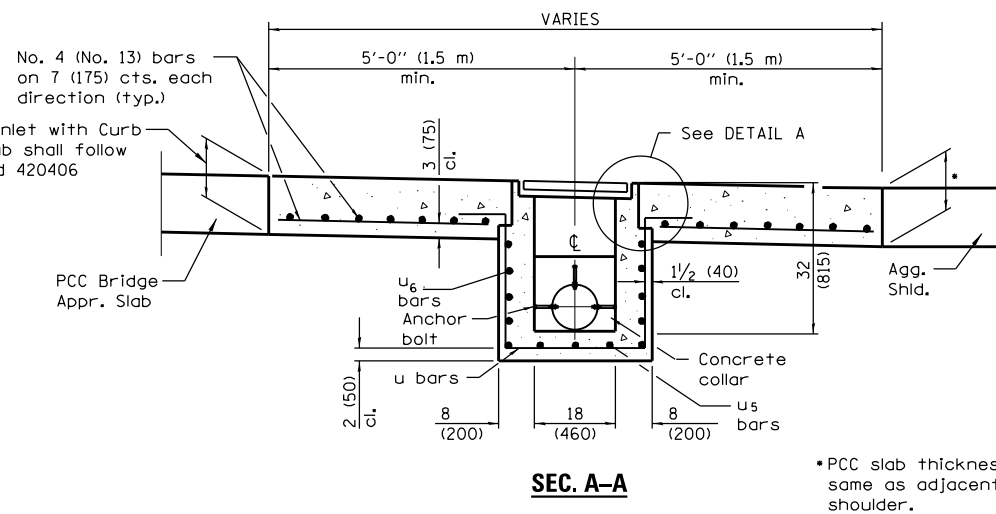


**DETAIL B**



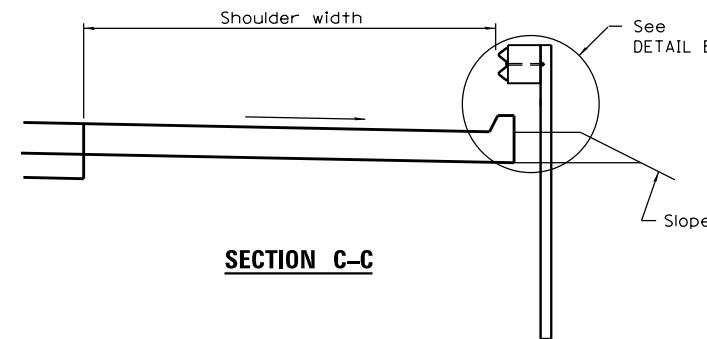
**BOX OUTLET WHEN PRECAST**

Thickness of PCC for Shoulder Inlet with Curb adjacent to Bridge Approach Slab shall follow Section A-A of Highway Standard 420406

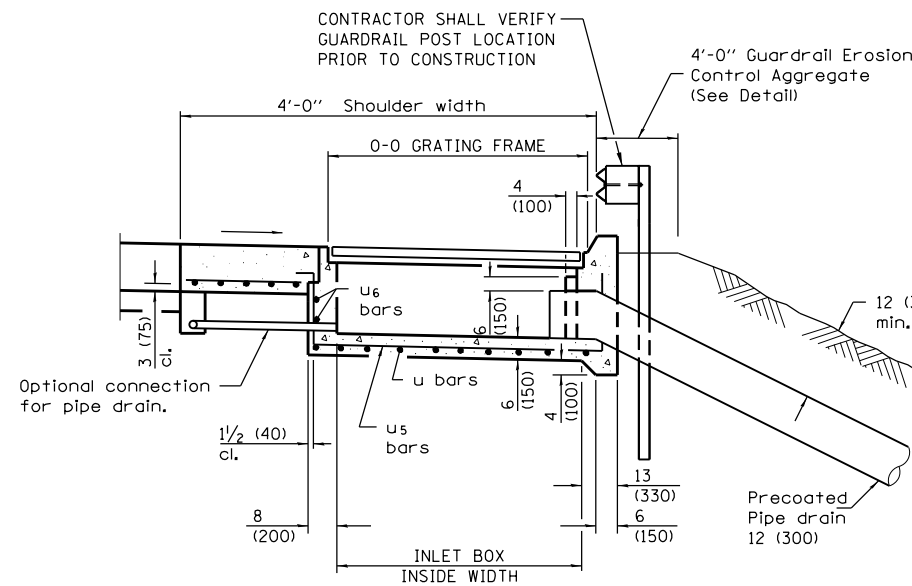


**SEC. A-A**

\*PCC slab thickness same as adjacent shoulder.



**SECTION C-C**



**SEC. B-B**

NOT TO SCALE

INLET TYPE	SHOULDER WIDTH	0-0 GRATING FRAME	INLET BOX INSIDE WIDTH	INLET BOX INSIDE LENGTH
TYPE G	4' (1.219 m)	27 (690)	22 (560)	18 (460)

**GENERAL NOTES**

- See Standard 420001 for joint details not shown.
- See Standard 630301 and 631031 for details of guardrail not shown.
- All exposed edges of the inlet, except the upper perimeter, shall be beveled 3/4 (20).
- For placement of drainage elements on existing construction with existing rigid pavement, substitute expansion anchor ties for tie bars. For nonrigid pavements or monolithic construction of PCC slab and shoulder, omit tie bars.
- Place inlet to miss PCC Approach Slab Footing.
- All dimensions are in inches (millimeters) unless otherwise shown.
- Pipe drains shall be precast galvanized corrugated steel pipe.
- \*Pavement Connector (HMA) for Bridge Approach Slab shall be paid for as shown in Highway Standard 420406, except that PCC slab as shown in Shoulder Inlet with Curb detail shall be included in the pay item SHOULDER INLET WITH CURB (4 FT SHOULDER).



USER NAME = brennar	DESIGNED - JH	REVISED -
PLOT SCALE = 0.2000' / in.	DRAWN - JH	REVISED -
PLOT DATE = 4/30/2019	CHECKED - CC	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

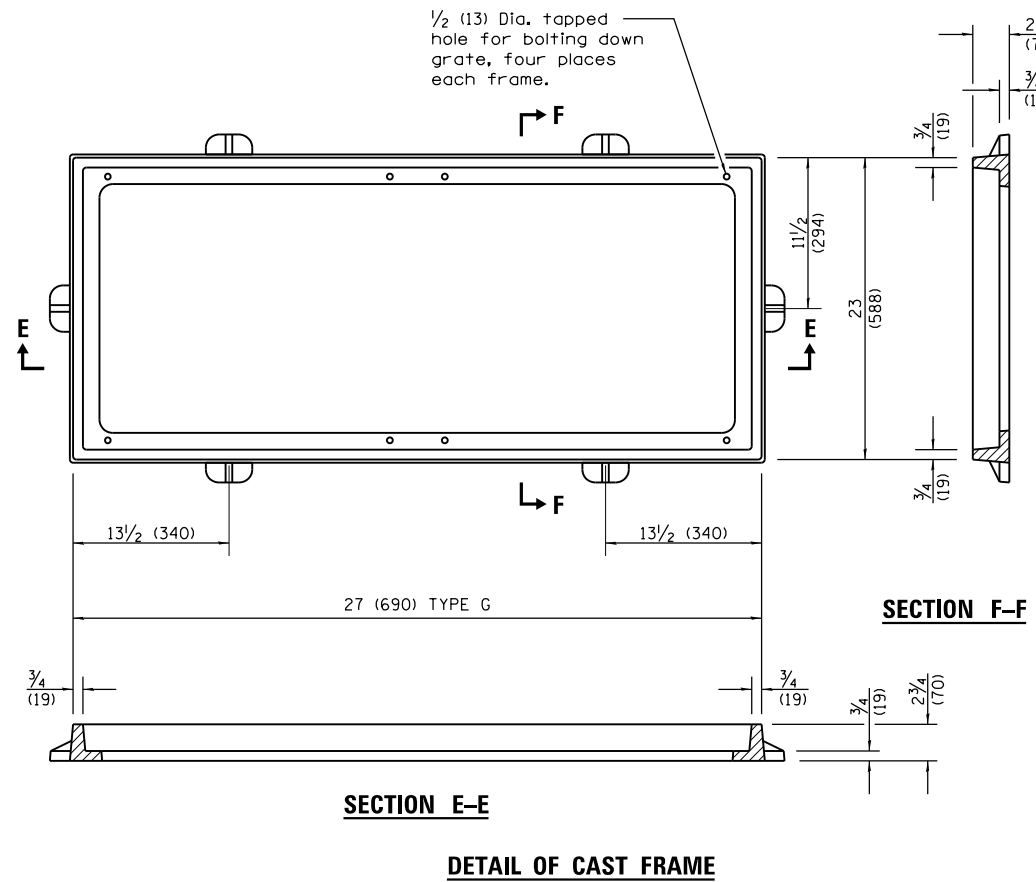
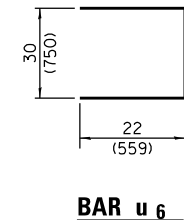
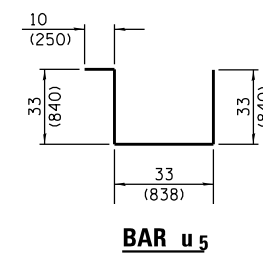
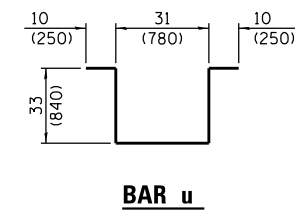
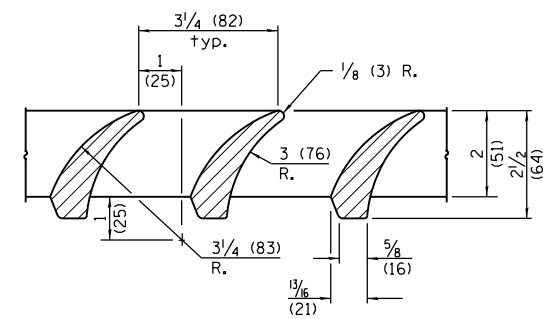
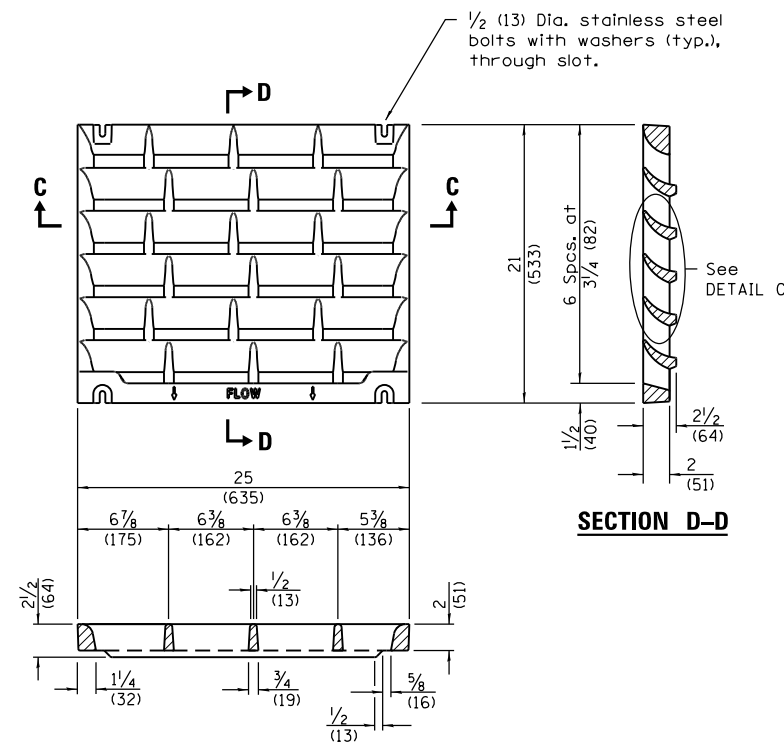
**DETAILS - SHOULDER INLET WITH CURB  
STREITMATTER RD OVER BRANCH OF SPOON RIVER**

SCALE: NTS SHEET NO. 1 OF 2 SHEETS STA. TO STA.

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	12
CONTRACT NO. 89750				
ILLINOIS FED. AID PROJECT NO. 48B7(944)				

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**INLET BOX**

REQUIRED MATERIAL			
TYPE G			
Bar	Qty.	Size	Length
u	4	No. 4 (No.13)	9'-9" (2.69 m)
u5	3	No. 4 (No.13)	9'-1" (2.78 m)
u6	4	No. 4 (No.13)	6'-2" (1.87 m)
Concrete	cu. yds. (m <sup>3</sup> )		0.5 (0.4)
Reinf. bars	lbs. (kg)		55.0 (25.0)
Grating	sq. ft. (m <sup>2</sup> )		3.6 (0.34)



USER NAME = brennar	DESIGNED - JH	REVISED -
PLOT SCALE = 0.2000' / in.	DRAWN - JH	REVISED -
PLOT DATE = 4/30/2019	CHECKED - CC	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

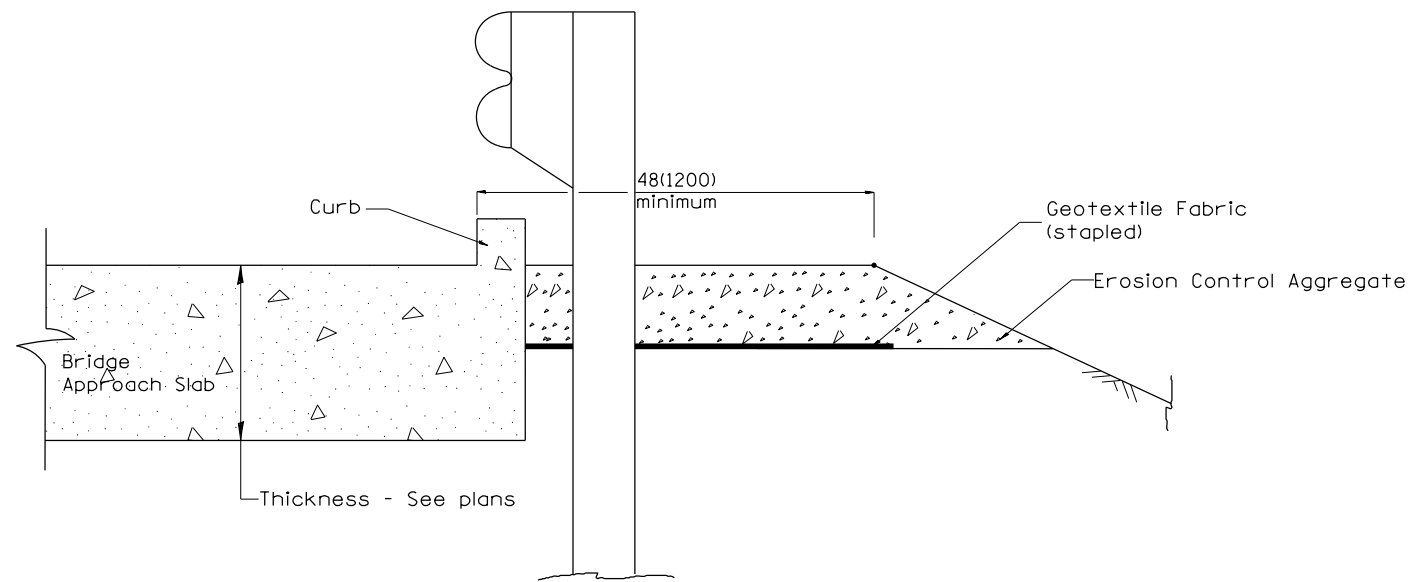
DETAILS - SHOULDER INLET WITH CURB  
STREITMATTER RD OVER BRANCH OF SPOON RIVER

SCALE: NTS SHEET NO. 2 OF 2 SHEETS STA. TO STA.

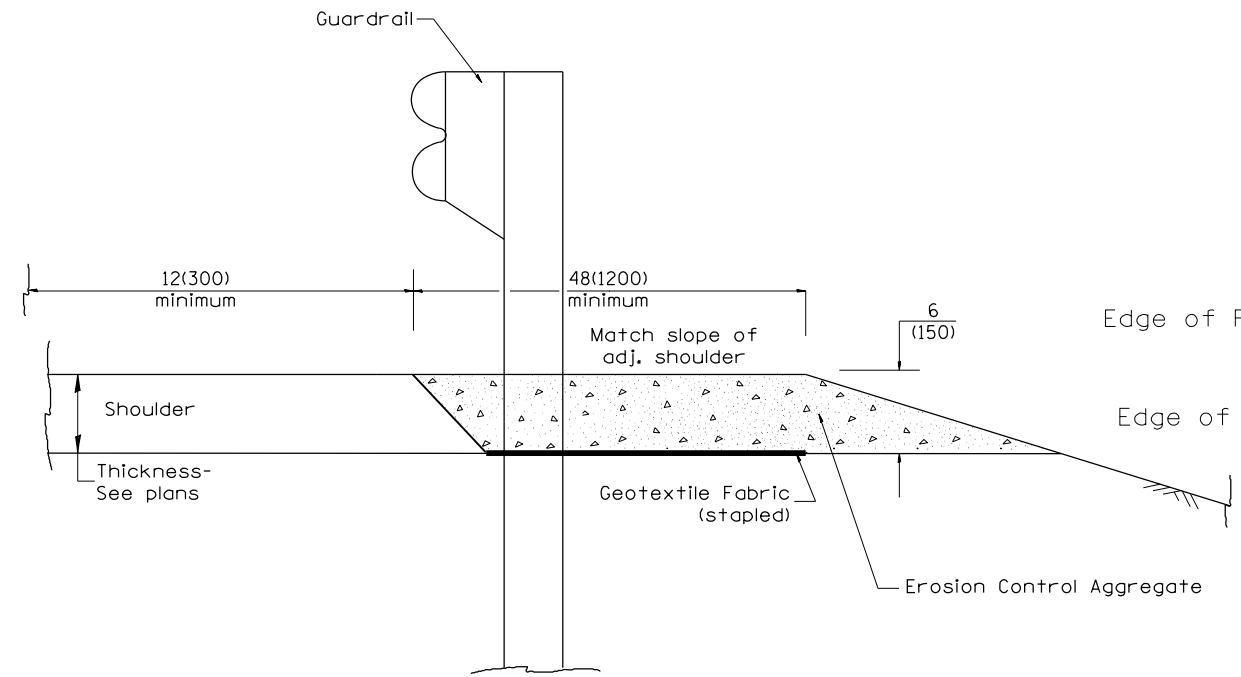
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	13
CONTRACT NO. 89750				
ILLINOIS FED. AID PROJECT NO. 48B7(944)				

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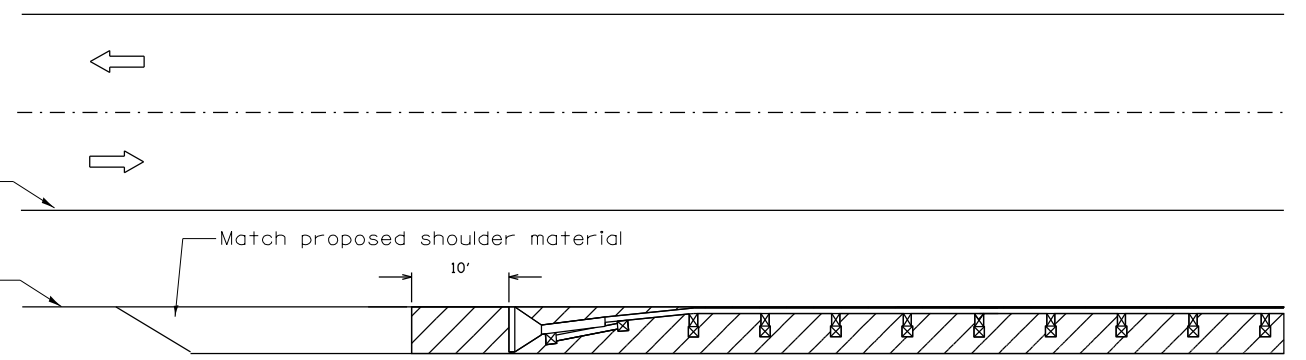
**TYPICAL SECTION WITH BRIDGE APPROACH CURB**



**TYPICAL SECTION WITHOUT CURB**

**GENERAL NOTES: GUARDRAIL AGGREGATE EROSION CONTROL**

1. This work shall consist of grading as needed, furnishing and installing geotextile fabric and staples, and furnishing, placing and shaping crushed aggregate around and behind Steel Plate Beam Guardrail posts in accordance with Plan Details.
2. Before placing the aggregate and the Geotextile Fabric, weeds and grass shall be removed from the area to be covered.
3. After the area has been prepared, and in a dry condition, the Geotextile fabric shall be placed with a 12(300) minimum overlap. A knife cut for guardrail post installation is necessary.
4. The aggregate shall be deposited, compacted and shaped by either mechanical or hand methods, in a manner reasonably true to line and grade.
5. The Contractor shall have the option of placing the guardrail before or after the Geotextile Fabric and Aggregate are in place. If the guardrail is placed after the Geotextile Fabric and Aggregate, then any voids must be filled and the aggregate returned to line and grade.
6. Materials shall meet the following requirements:
  - A. The crushed aggregate shall be CA1 gradation in accordance with Article 1004.01(c) of the Standard Specifications.
  - B. The Geotextile Fabric shall be nonwoven fabric in accordance with Article 1080.02 of the Standard Specifications.



▨ Guardrail Aggregate Erosion Control

All dimensions are in inches (millimeters) unless otherwise noted.



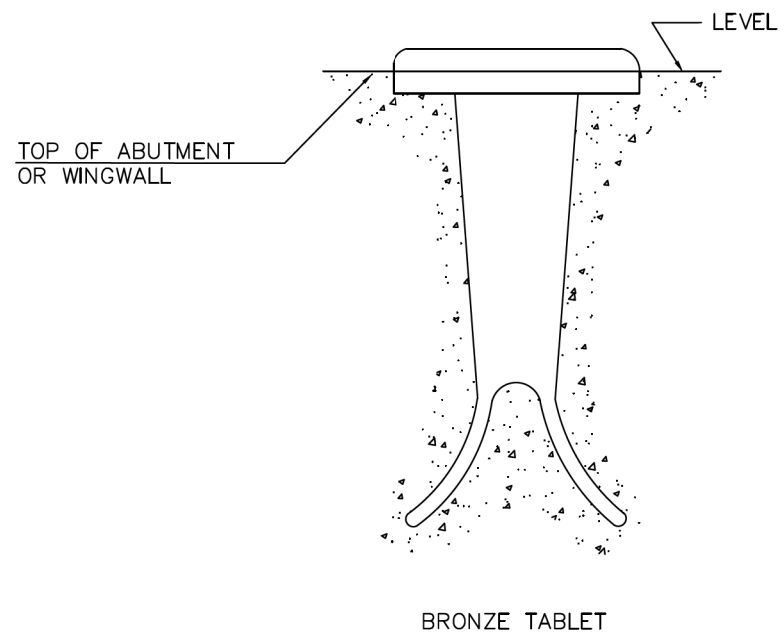
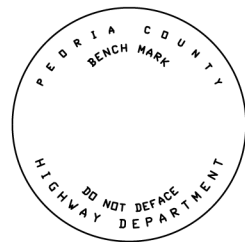
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	DRAWN - LJ	REVISED -
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PLOT DATE = 4/30/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAILS - GUARDRAIL AGGREGATE EROSION CONTROL  
STREITMATTER RD OVER BRANCH OF SPOON RIVER**

SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. TO STA.

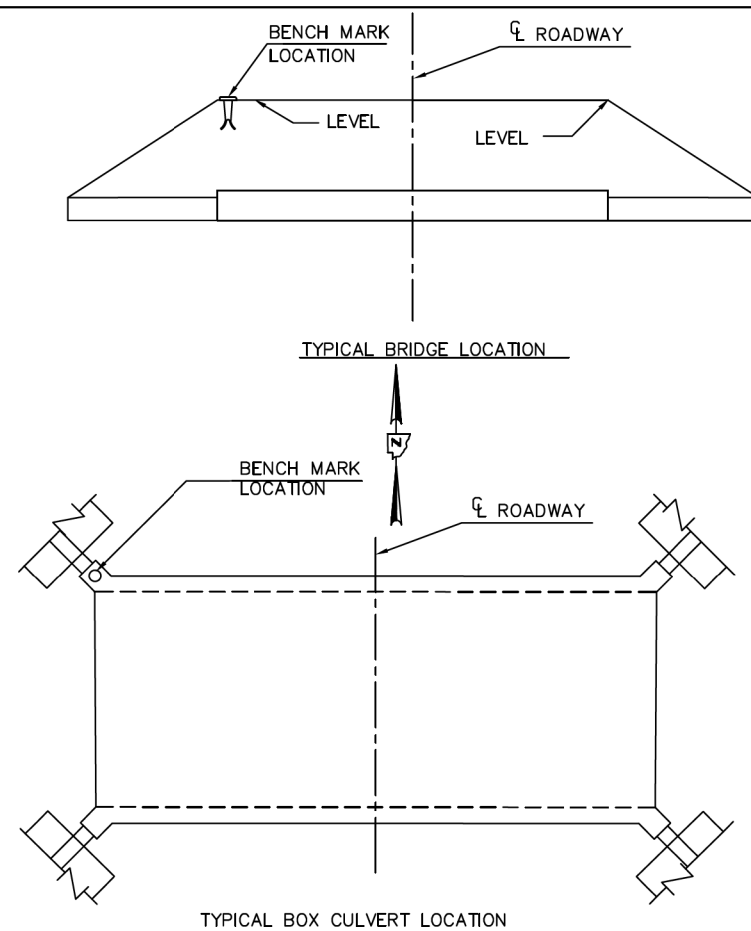
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	14
CONTRACT NO. 89750				
ILLINOIS FED. AID PROJECT NO. 48B7(944)				



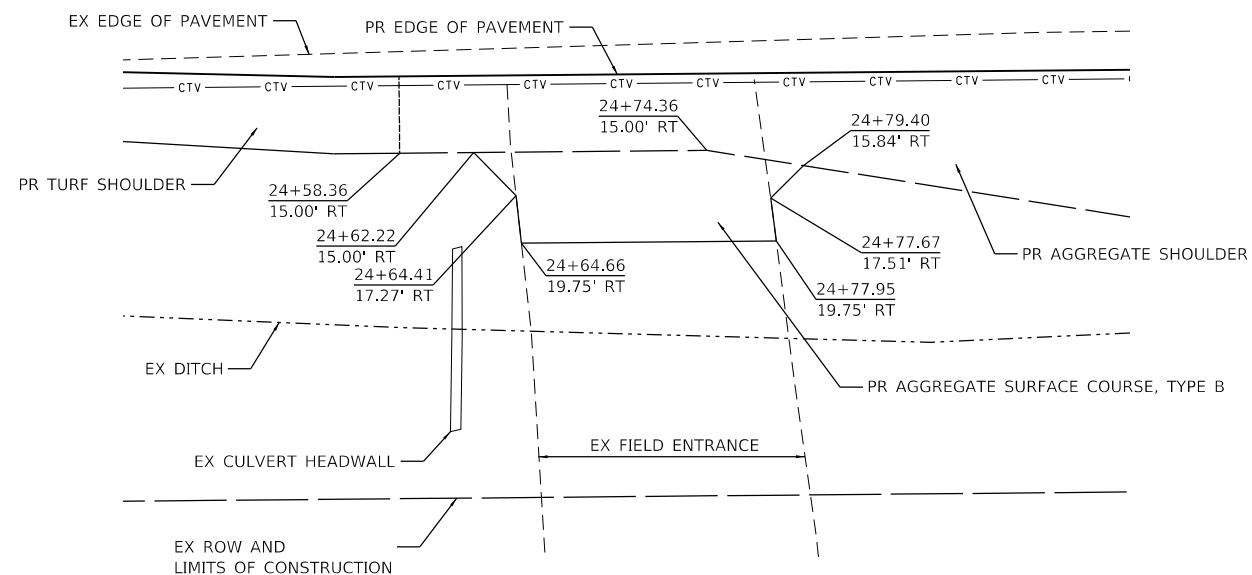
**PEORIA COUNTY HIGHWAY DEPARTMENT BENCH MARK**

The Bench Mark shall be installed at the Northwest corner of the proposed bridge or box culvert in accordance with the details shown below. In general, the bench mark will be placed in a level area in the abutment of the bridge or wingwall of the box culvert so as to be readily accessible.  
 The bench mark shall be placed under the direction of the Engineer and shall be installed in a workmanlike manner.

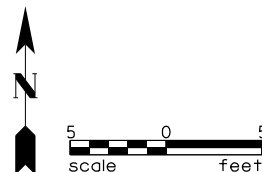
The elevation shall be permanently marked by the use of metal dies after the bench mark has been installed. The elevation will be based on U.S.G.S. datum.  
 The bronze tablet, to be installed as the bench mark, shall be furnished by the Peoria County Highway Department.



**PEORIA COUNTY BENCH MARK STANDARD**



**FIELD ENTRANCE DETAIL**



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DRAWN - CC	REVISIONS -	
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PLOT DATE = 4/30/2019	DATE -	REVISIONS -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DETAILS - BENCH MARK AND FIELD ENTRANCE  
STREITMATTER RD OVER BRANCH OF SPOON RIVER**

SCALE: NTS SHEET NO. 1 OF 1 SHEETS STA. TO STA.

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	15
CONTRACT NO. 89750				
ILLINOIS FED. AID PROJECT NO. 48B7(944)				

Benchmark: Railroad spike in south face of first utility pile west of bridge, adjacent to north ROW of Streitmatter Road. Elev. 683.88

Existing Structure: S.N. 072-3021 originally built in 1947 as SA36 Section 80BMFT. Existing bridge is 26'-0" wide single span steel girder bridge with concrete deck, 38'-6" Back to Back Abutments. Closed abutments on timber piles w/timber lagging walls.

Structure to be removed and replaced with road closure. No salvage.

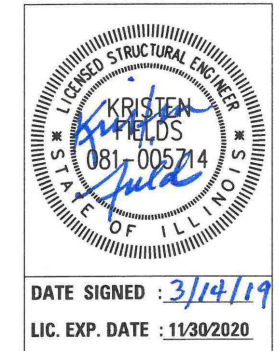
**DESIGN STRESSES**

**FIELD UNITS**

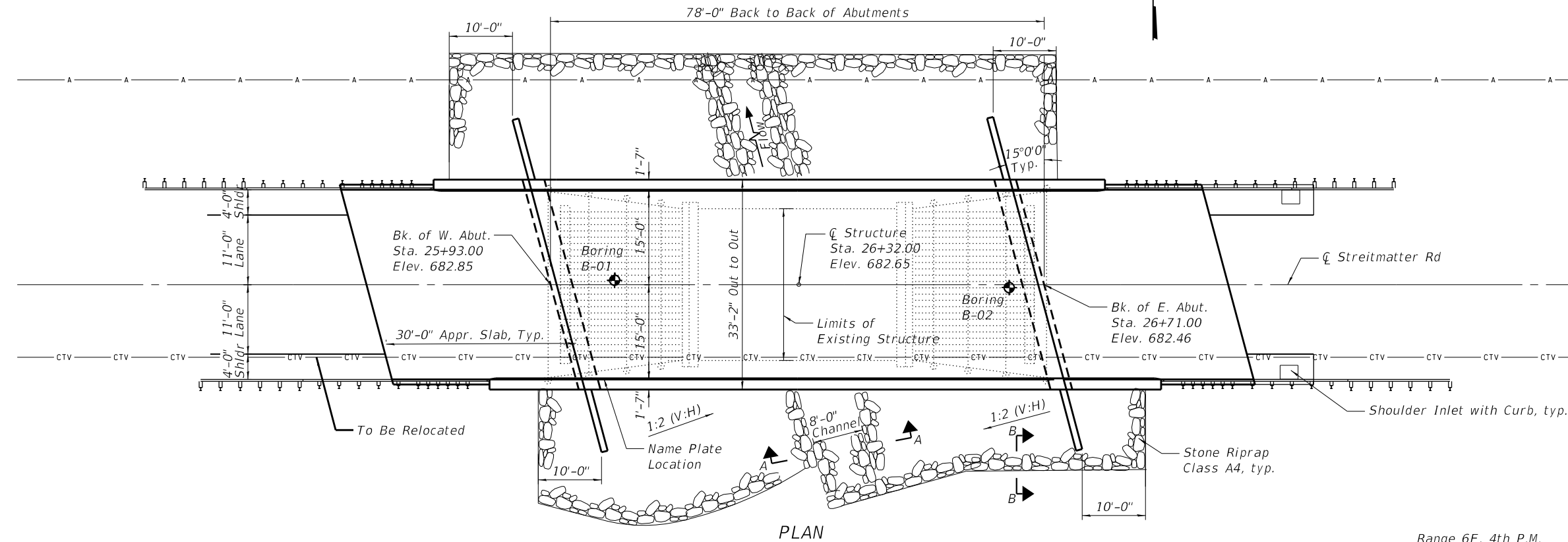
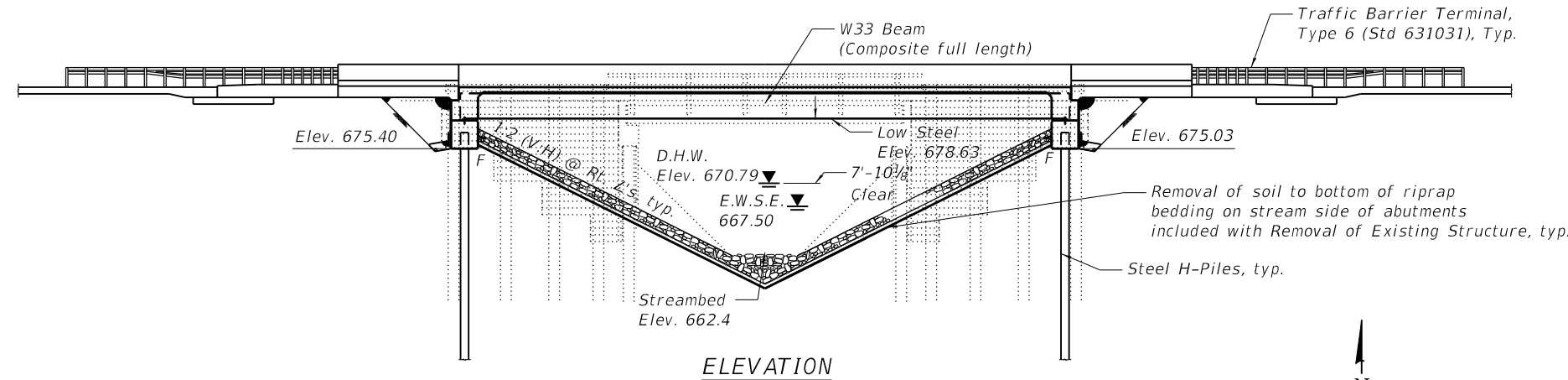
f'c = 3,500 psi  
 f'c = 4,000 psi (Superstructure Concrete)  
 fy = 60,000 psi (Reinforcement)  
 fy = 50,000 psi (M270 Grade 50W)

**DESIGN SPECIFICATIONS**

2017 AASHTO LRFD Bridge Design Specifications, 8th Edition



I certify that to the best of my knowledge, information and belief, this bridge design is structurally adequate for the design loading shown on the plans. The design is an economical one for the style structure and complies with the requirements of the current "AASHTO LRFD Specifications"



**WATERWAY INFORMATION**

Drainage Area = 2.52 sq mi Low Grade Elev. 682.31 @ Sta. 27+10

Flood	Freq. Yr.	Q C.F.S.	Opening Ft <sup>2</sup>		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	727	142	192	670.30	0.05	0.15	670.35	670.45
Base	15	845	157	212	670.79	0.14	0.20	670.93	670.99
Overtopping	100	1360	201	275	672.18	0.47	0.35	672.65	672.53
Max. Calc.	500	1840	228	319	673.06	0.83	0.46	673.89	673.52

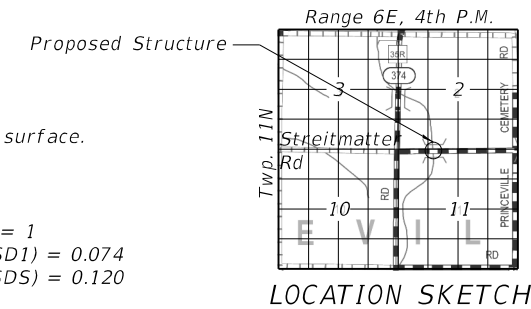
**DESIGN SCOUR ELEVATION TABLE**

Event / Limit	Design Scour Elevations (ft.)			Item 113
	State	W. Abut.	E. Abut.	
Q100	675.40	675.03		8
Q200	675.40	675.03		
Design	675.40	675.03		
Check	675.40	675.03		

**LOADING HL-93**  
 Allow 50#/sq. ft. for future wearing surface.

**SEISMIC DATA**

Seismic Performance Zone (SPZ) = 1  
 Design Spectral Acceleration at 1.0 sec. (SD1) = 0.074  
 Design Spectral Acceleration at 0.2 sec. (SDS) = 0.120  
 Soil Site Class = C



**GENERAL PLAN & ELEVATION  
 STREITMATTER ROAD OVER  
 BRANCH OF SPOON RIVER  
 TR 7 - SECTION 16-00080-00-BR  
 PEORIA COUNTY  
 STATION 26+32  
 STRUCTURE NO. 072-4318**

MODEL: 0724318-17232-XXX-GPE  
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	CHECKED - KF	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**GENERAL PLAN AND ELEVATION  
 STRUCTURE NO. 072-4318**

SHEET 1 OF 19 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	16
CONTRACT NO. 89750				
ILLINOIS FED. AID PROJECT NO. 48B7(944)				



**GENERAL NOTES**

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts (in painted areas and ASTM A325 Type 3 in unpainted areas). Bolts 3/4-in. Φ, holes 1 1/16-in. Φ, unless otherwise noted.

Calculated weight of Structural Steel = 63,370 lbs

No field welding is permitted except as specified in the contract documents.

Reinforcement bars designated (E) shall be epoxy coated.

The existing structure steel coating contains lead. The Contractor shall take appropriate precautions to deal with the presence of lead on this project.

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

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

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

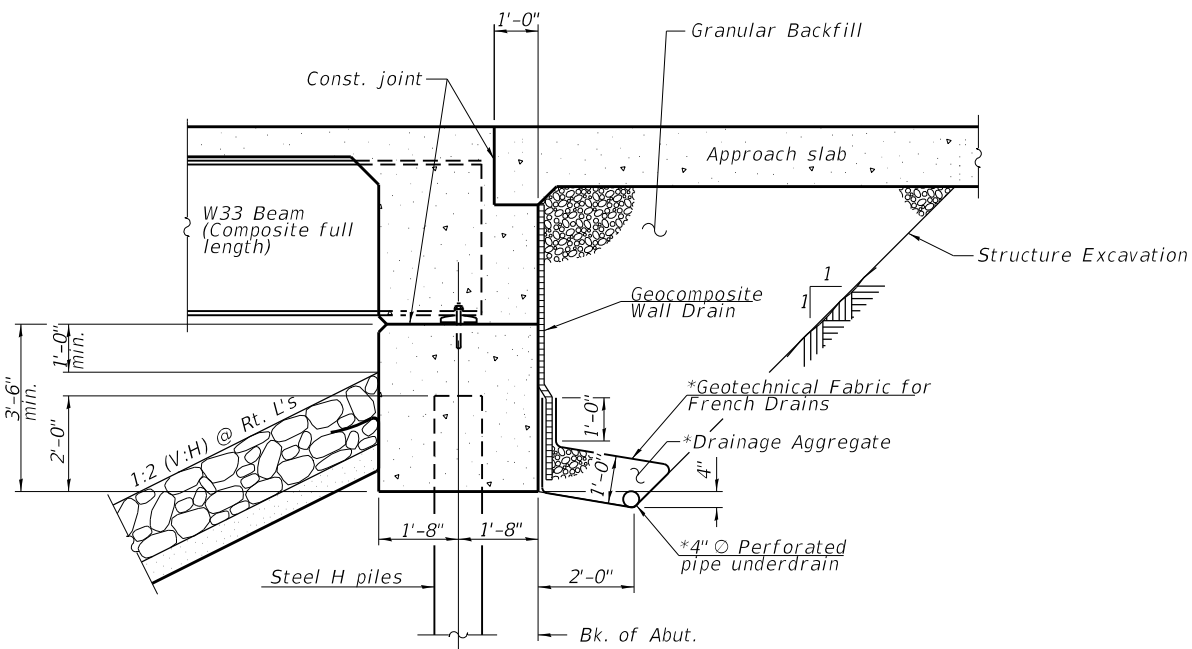
All structural steel shall be AASHTO M270 Grade 50W.

**INDEX OF SHEETS**

- 1 General Plan and Elevation
- 2 General Notes
- 3-4 Top of Slab Elevations
- 5-6 Top of Approach Slab Elevations
- 7 Superstructure
- 8 Superstructure Details
- 9 Diaphragm Details
- 10-11 Bridge Approach Slab Details
- 12 Framing Plan and Girder Elevations
- 13 Structural Steel Details
- 14 West Abutment
- 15 East Abutment
- 16 HP Pile Details
- 17-18 Boring Logs

**TOTAL BILL OF MATERIAL**

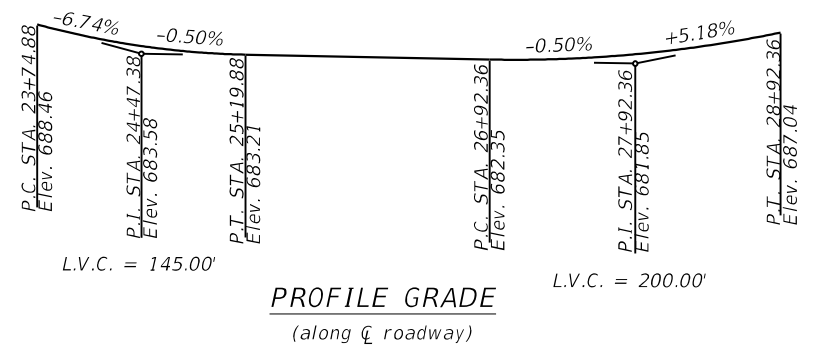
ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq.Yd.		800	800
Filter Fabric	Sq.Yd.		800	800
Removal Of Existing Structures	Each			1
Structure Excavation	Cu.Yd.		245	245
Concrete Structures	Cu.Yd.		60.0	60.0
Concrete Superstructure	Cu.Yd.	113.7		113.7
Bridge Deck Grooving	Sq.Yd.	426		426
Protective Coat	Sq.Yd.	532		532
Concrete Superstructure (Approach Slab)	Cu.Yd.	90.8		90.8
Furnishing And Erecting Structural Steel	L.Sum	1		1
Stud Shear Connectors	Each	1,050		1,050
Reinforcement Bars, Epoxy Coated	Pound	57,040	10,690	67,730
Furnishing Steel Piles HP14X89	Foot		292	292
Driving Piles	Foot		292	292
Test Pile Steel HP14X89	Each		2	2
Pile Shoes	Each		10	10
Names Plates	Each	1		1
Anchor Bolts, 1"	Each		20	20
Geocomposite Wall Drain	Sq.Yd.		68	68
Granular Backfill For Structures	Cu.Yd.		116	116
Pipe Underdrains For Structures 4"	Foot		130	130



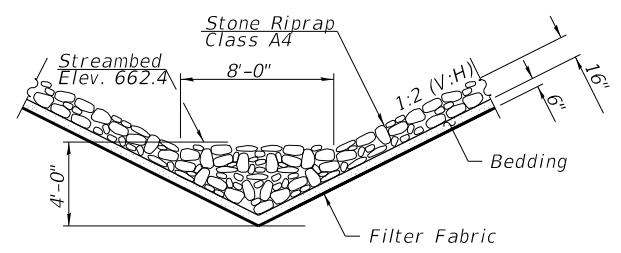
**SECTION THRU INTEGRAL ABUTMENT**  
(Horiz. dim. @ Rt. L's)

\*Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)

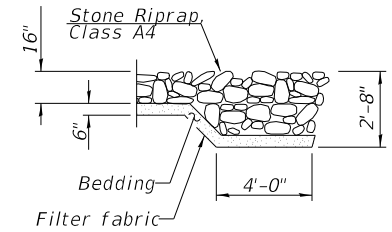
Note:  
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



**PROFILE GRADE**  
(along centerline roadway)



**SECTION A-A**



**SECTION B-B**

STATION 26+32  
BUILT 201 BY  
PEORIA COUNTY  
LOADING HL-93  
STRUCTURE NO. 072-4318

**NAME PLATE**  
See Std. 515001

MODEL: Default  
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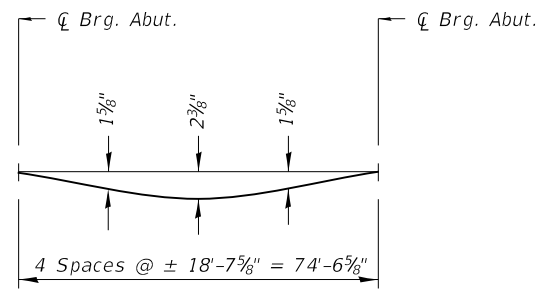
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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES  
STRUCTURE NO. 072-4318**

SHEET 2 OF 19 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	17
CONTRACT NO. 89750				
ILLINOIS FED. AID PROJECT NO. 48B7(944)				

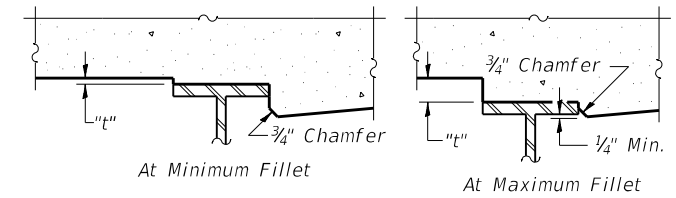


**DEAD LOAD DEFLECTION DIAGRAM**

(Includes weight of concrete only.)

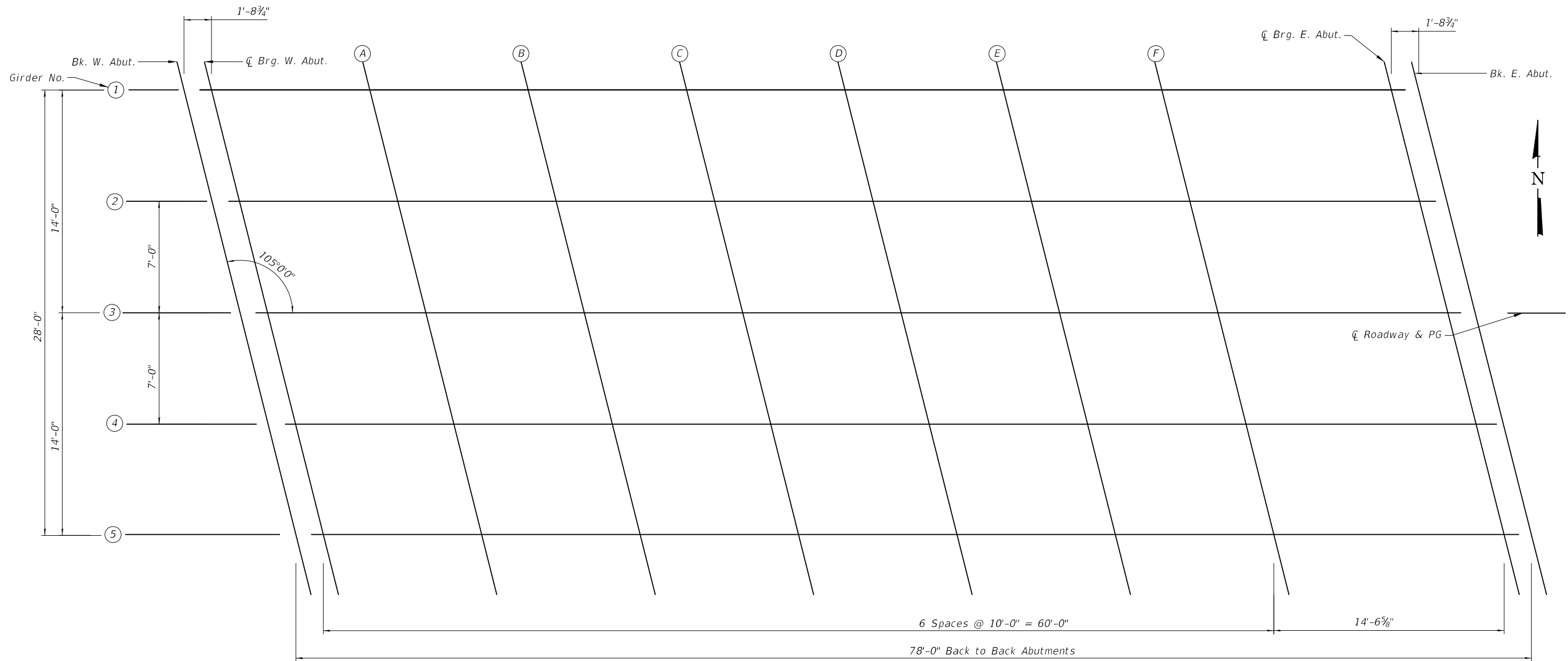
Note:

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 below.



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

**FILLET HEIGHTS**



**PLAN**

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS  
STRUCTURE NO. 072-4318**

SHEET 3 OF 19 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	18
CONTRACT NO. 89750				
ILLINOIS FED. AID PROJECT NO. 48B7(944)				

**BEAM 1**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT	25+89.25	-14.00	682.63	682.63
CL. BRG. W. ABUT.	25+90.98	-14.00	682.62	682.62
A	26+00.98	-14.00	682.57	682.65
B	26+10.98	-14.00	682.52	682.66
C	26+20.98	-14.00	682.47	682.65
D	26+30.98	-14.00	682.42	682.61
E	26+40.98	-14.00	682.37	682.54
F	26+50.98	-14.00	682.32	682.43
CL. BRG. E. ABUT.	26+65.52	-14.00	682.25	682.25
BK. E. ABUT.	26+67.25	-14.00	682.24	682.24

**BEAM 2**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT	25+91.12	-7.00	682.75	682.75
CL. BRG. W. ABUT.	25+92.85	-7.00	682.74	682.74
A	26+02.85	-7.00	682.69	682.77
B	26+12.85	-7.00	682.64	682.79
C	26+22.85	-7.00	682.59	682.77
D	26+32.85	-7.00	682.54	682.73
E	26+42.85	-7.00	682.49	682.66
F	26+52.85	-7.00	682.44	682.55
CL. BRG. E. ABUT.	26+67.39	-7.00	682.37	682.37
BK. E. ABUT.	26+69.12	-7.00	682.36	682.36

**BEAM 3 & P.G.**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT	25+93.00	0.00	682.85	682.85
CL. BRG. W. ABUT.	25+94.73	0.00	682.84	682.84
A	26+04.73	0.00	682.79	682.87
B	26+14.73	0.00	682.74	682.89
C	26+24.73	0.00	682.69	682.87
D	26+34.73	0.00	682.64	682.83
E	26+44.73	0.00	682.59	682.76
F	26+54.73	0.00	682.54	682.65
CL. BRG. E. ABUT.	26+69.27	0.00	682.47	682.47
BK. E. ABUT.	26+71.00	0.00	682.46	682.46

**BEAM 4**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT	25+94.88	7.00	682.73	682.73
CL. BRG. W. ABUT.	25+96.60	7.00	682.72	682.72
A	26+06.60	7.00	682.67	682.75
B	26+16.60	7.00	682.62	682.77
C	26+26.60	7.00	682.57	682.76
D	26+36.60	7.00	682.52	682.71
E	26+46.60	7.00	682.47	682.64
F	26+56.60	7.00	682.42	682.53
CL. BRG. E. ABUT.	26+71.15	7.00	682.35	682.35
BK. E. ABUT.	26+72.88	7.00	682.34	682.34

**BEAM 5**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
BK. W. ABUT	25+96.75	14.00	682.59	682.59
CL. BRG. W. ABUT.	25+98.48	14.00	682.59	682.59
A	26+08.48	14.00	682.54	682.61
B	26+18.48	14.00	682.49	682.63
C	26+28.48	14.00	682.44	682.62
D	26+38.48	14.00	682.39	682.57
E	26+48.48	14.00	682.34	682.50
F	26+58.48	14.00	682.29	682.39
CL. BRG. E. ABUT.	26+73.02	14.00	682.21	682.21
BK. E. ABUT.	26+74.75	14.00	682.20	682.20

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS  
STRUCTURE NO. 072-4318**

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	19
CONTRACT NO. 89750				
ILLINOIS FED. AID PROJECT NO. 48B7(944)				

SHEET 4 OF 19 SHEETS

**NORTH EDGE OF SHOULDER**

Location	Station	Offset	Theoretical Grade Elevations
WEST END OF WEST APPR. PAV'T.	25+60.02	-15.00	682.75
A1	25+70.02	-15.00	682.70
A2	25+80.02	-15.00	682.65
EAST END OF WEST APPR. PAV'T.	25+90.02	-15.00	682.60

**NORTH EDGE OF PAVEMENT**

Location	Station	Offset	Theoretical Grade Elevations
WEST END OF WEST APPR. PAV'T.	25+61.09	-11.00	682.83
A1	25+71.09	-11.00	682.78
A2	25+81.09	-11.00	682.73
EAST END OF WEST APPR. PAV'T.	25+91.09	-11.00	682.68

**CL ROADWAY & PROFILE GRADE**

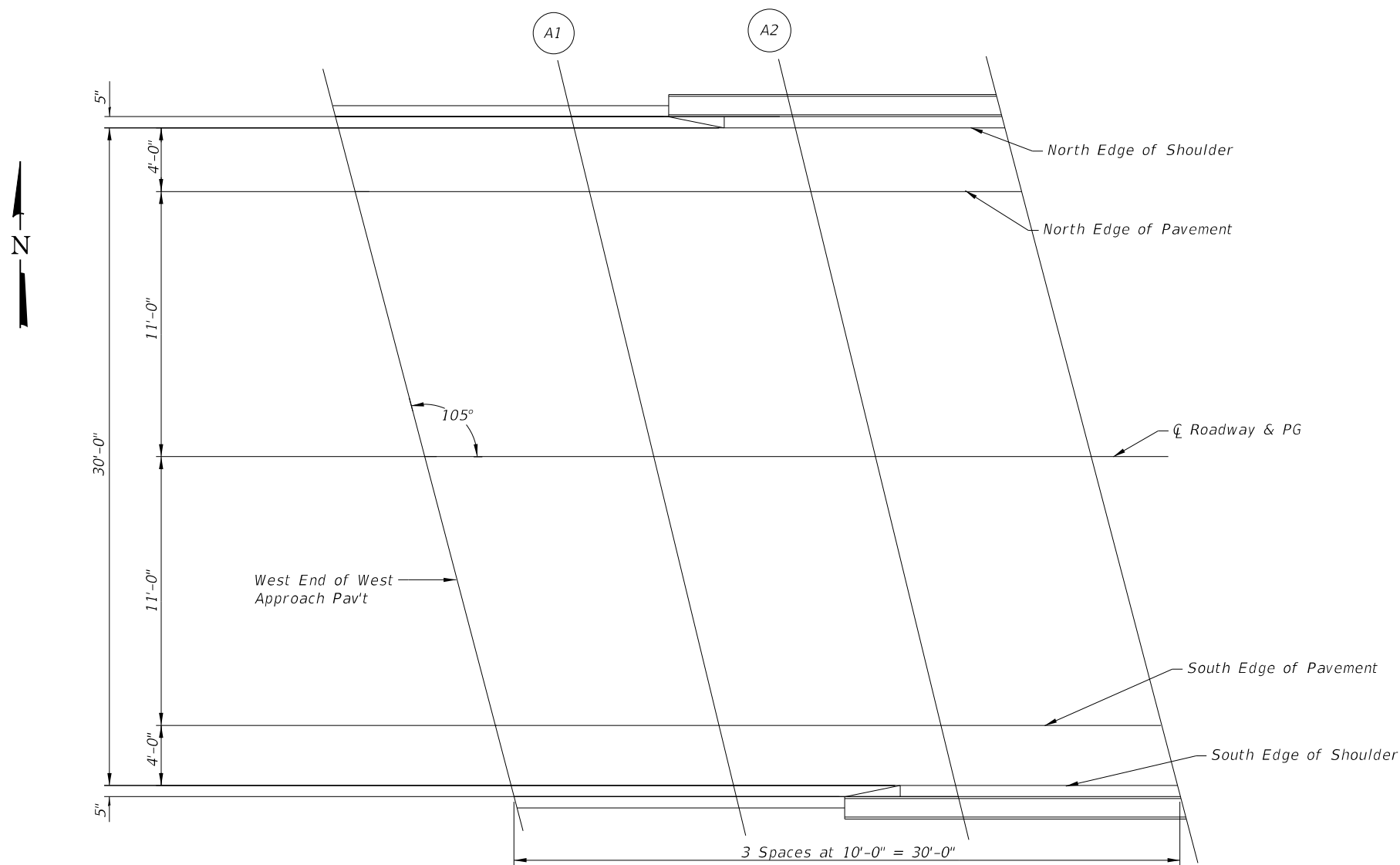
Location	Station	Offset	Theoretical Grade Elevations
WEST END OF WEST APPR. PAV'T.	25+64.04	0.00	682.99
A1	25+74.04	0.00	682.94
A2	25+84.04	0.00	682.89
EAST END OF WEST APPR. PAV'T.	25+94.04	0.00	682.84

**SOUTH EDGE OF PAVEMENT**

Location	Station	Offset	Theoretical Grade Elevations
WEST END OF WEST APPR. PAV'T.	25+66.99	11.00	682.80
A1	25+76.99	11.00	682.75
A2	25+86.99	11.00	682.70
EAST END OF WEST APPR. PAV'T.	25+96.99	11.00	682.65

**SOUTH EDGE OF SHOULDER**

Location	Station	Offset	Theoretical Grade Elevations
WEST END OF WEST APPR. PAV'T.	25+68.06	15.00	682.71
A1	25+78.06	15.00	682.66
A2	25+88.06	15.00	682.61
EAST END OF WEST APPR. PAV'T.	25+98.06	15.00	682.56



**PLAN**  
West Approach

MODEL: Default  
FILE NAME: T:\Projects\17-232\_PCHD-Streitmatter Rd Bridge\Design\CADD\Structural\CADD Sheets\0724318-17232-005-WEST SLAB ELEV.dgn



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PLOT DATE =	CHECKED - KF	REVISED -

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

**TOP OF APPROACH SLAB ELEVATIONS**  
**STRUCTURE NO. 072-4318**

SHEET 5 OF 19 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	20
CONTRACT NO. 89750				
ILLINOIS FED. AID PROJECT NO. 48B7(944)				

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
WEST END OF EAST APPR. PAV'T.	26+65.94	-15.00	682.23
A3	26+75.94	-15.00	682.18
A4	26+85.94	-15.00	682.13
EAST END OF EAST APPR. PAV'T.	26+95.94	-15.00	682.08

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
WEST END OF EAST APPR. PAV'T.	26+67.01	-11.00	682.30
A3	26+77.01	-11.00	682.25
A4	26+87.01	-11.00	682.20
EAST END OF EAST APPR. PAV'T.	26+97.01	-11.00	682.16

CL ROADWAY & PROFILE GRADE

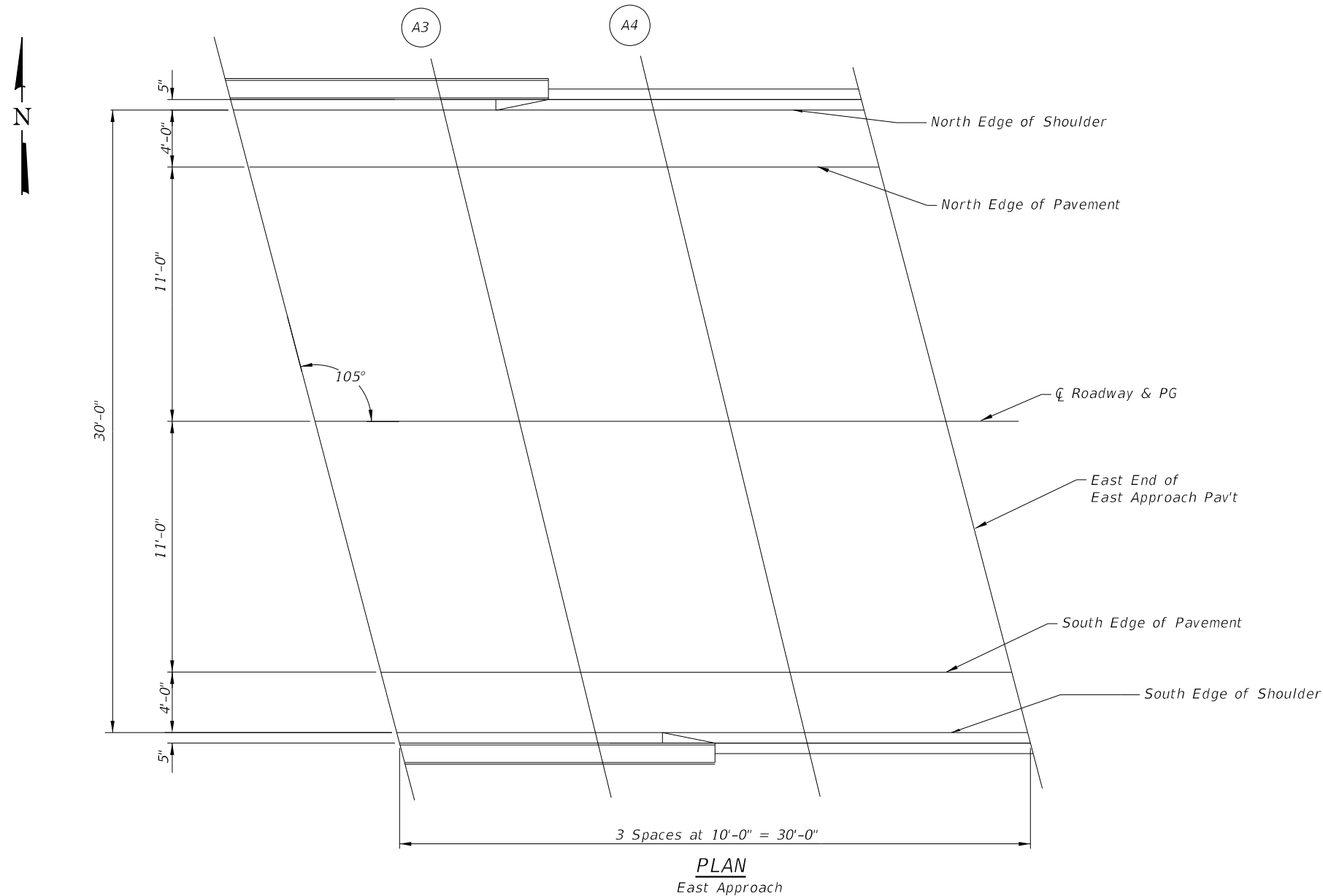
Location	Station	Offset	Theoretical Grade Elevations
WEST END OF EAST APPR. PAV'T.	26+69.96	0.00	682.46
A3	26+79.96	0.00	682.41
A4	26+89.96	0.00	682.36
EAST END OF EAST APPR. PAV'T.	26+99.96	0.00	682.32

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
WEST END OF EAST APPR. PAV'T.	26+72.91	11.00	682.27
A3	26+82.91	11.00	682.22
A4	26+92.91	11.00	682.17
EAST END OF EAST APPR. PAV'T.	27+02.91	11.00	682.14

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
WEST END OF EAST APPR. PAV'T.	26+73.98	15.00	682.18
A3	26+83.98	15.00	682.13
A4	26+93.98	15.00	682.09
EAST END OF EAST APPR. PAV'T.	27+03.98	15.00	682.05



MODEL: Default  
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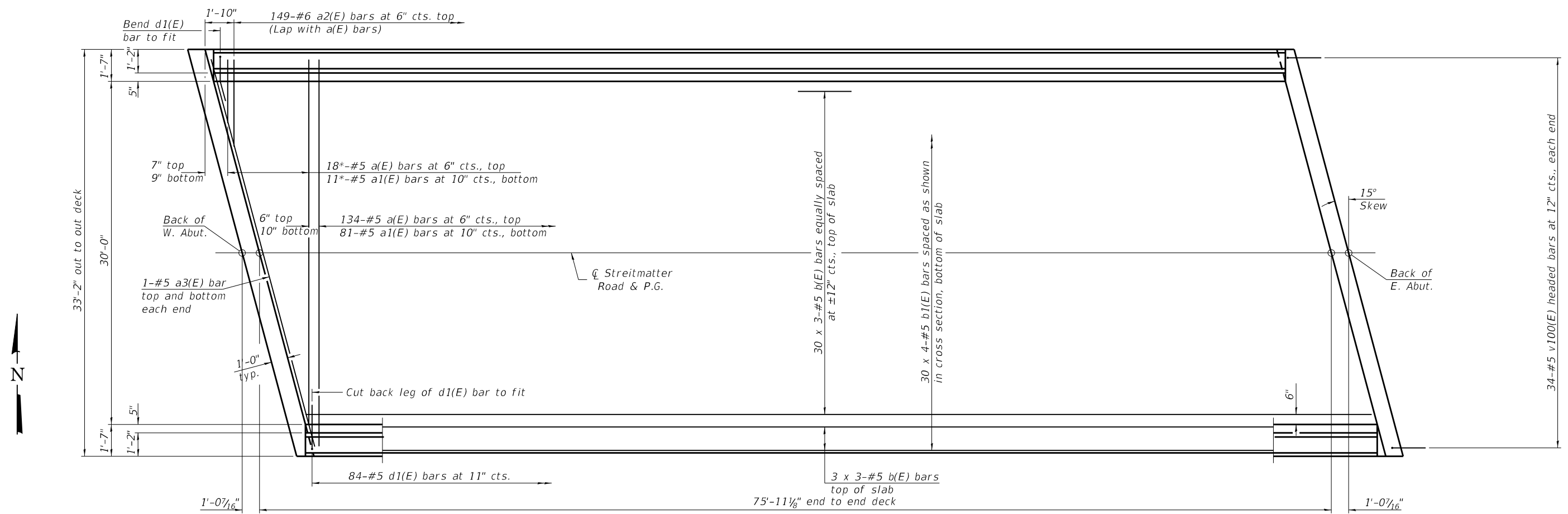
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PLOT DATE =	CHECKED - KF	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TOP OF APPROACH SLAB ELEVATIONS  
STRUCTURE NO. 072-4318

SHEET 6 OF 19 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	21
CONTRACT NO. 89750				
ILLINOIS FED. AID PROJECT NO. 48B7(944)				



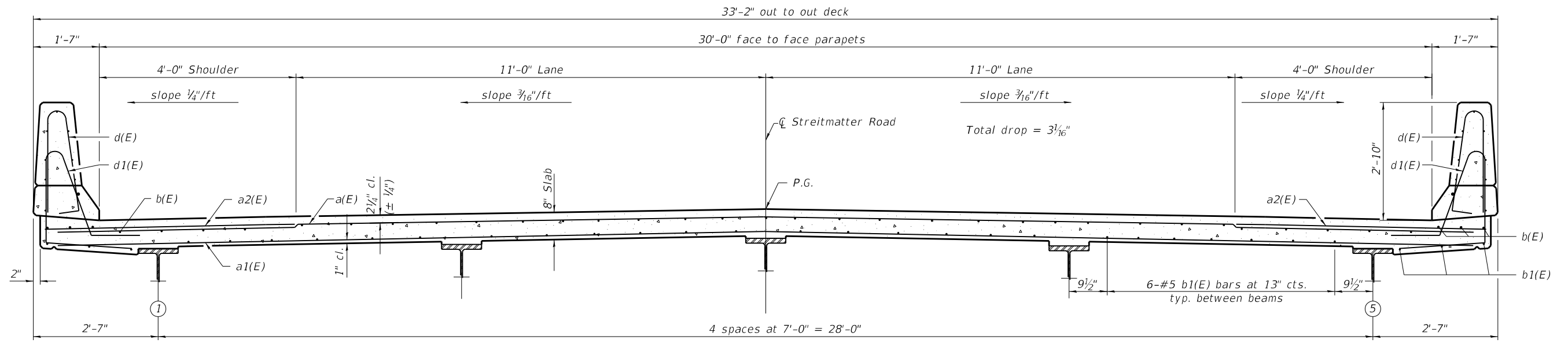
PLAN

**MINIMUM BAR LAP**

#5 bar = 3'-6"

\* Order a(E) & a1(E) bars full length. Cut to fit skew and use remainder of bars in opposite end.

Notes:  
See sheet 8 of 18 for superstructure details and Bill of Material.  
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.



CROSS SECTION  
(Looking East)

MODEL: Default  
FILE NAME: T:\Projects\17-232\_PCHD- Streitmatter Rd. Bridge\Design\CADD\Structural\CADD Sheets\0724318-17232-007-BRIDGE SUPERSTRUCTURE.dgn



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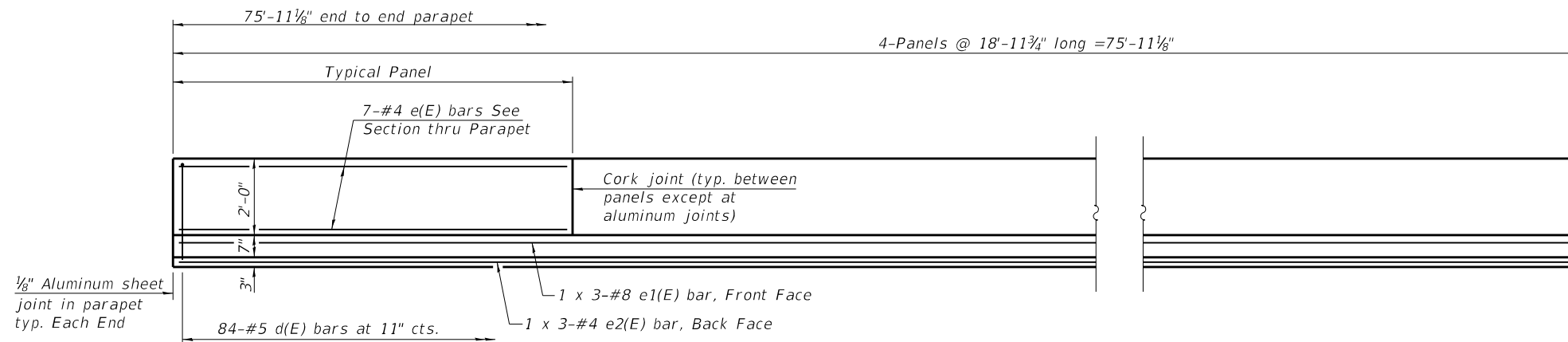
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE  
STRUCTURE NO. 072-4318

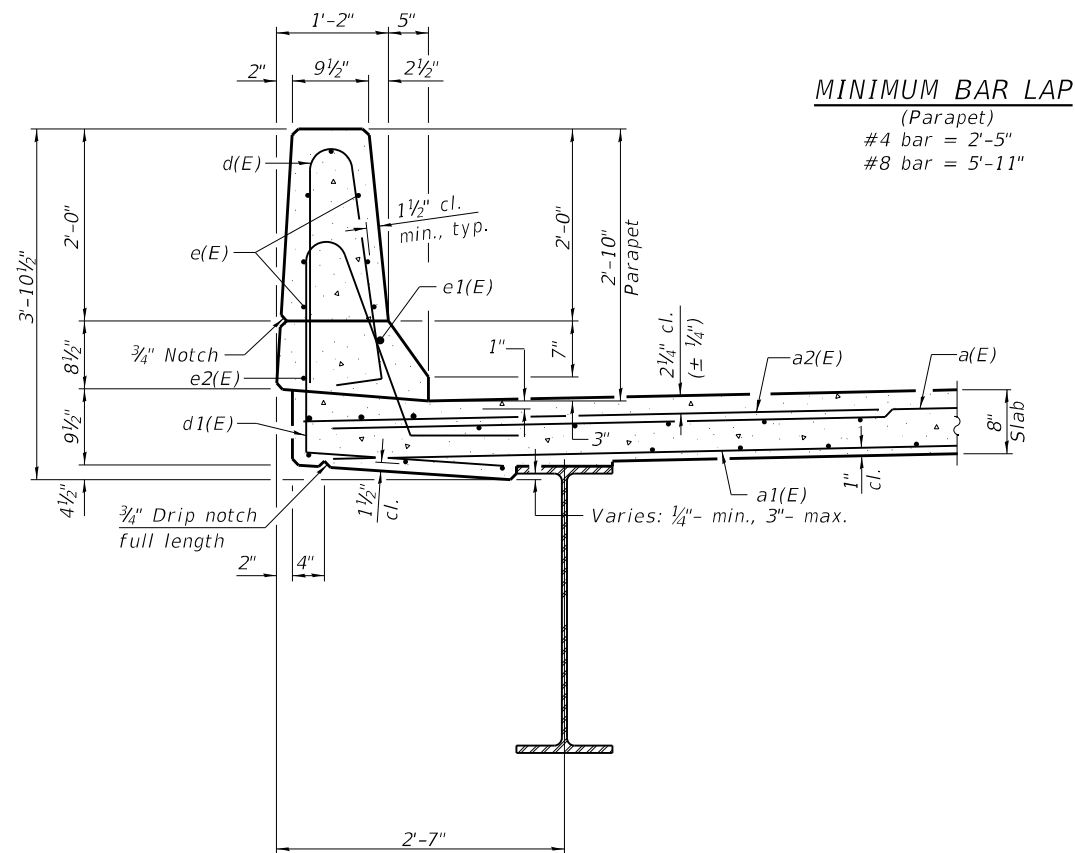
SHEET 7 OF 19 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	22
CONTRACT NO. 89750				

ILLINOIS FED. AID PROJECT NO. 48B7(944)

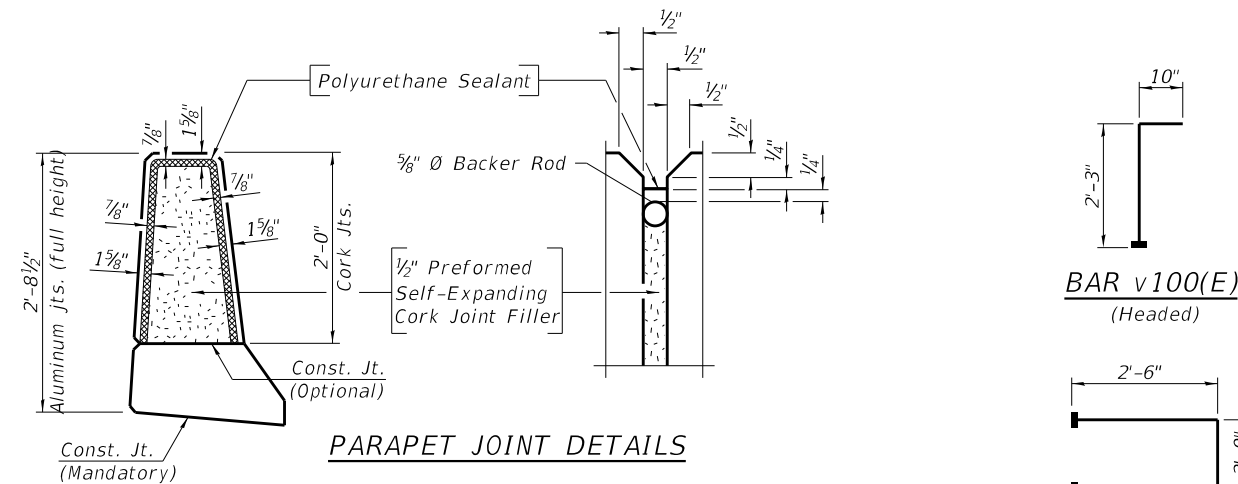


INSIDE ELEVATION OF PARAPET

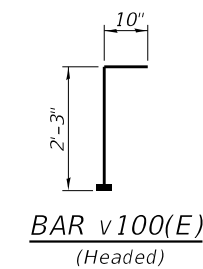


SECTION THRU PARAPET

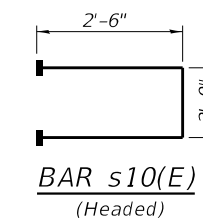
**MINIMUM BAR LAP**  
(Parapet)  
#4 bar = 2'-5"  
#8 bar = 5'-11"



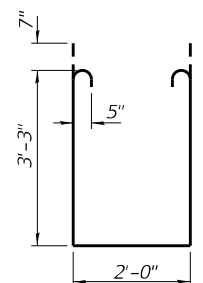
PARAPET JOINT DETAILS



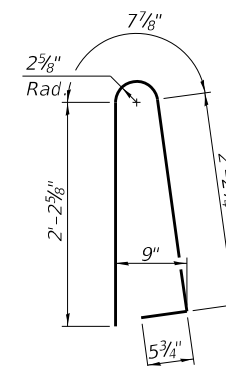
BAR v100(E)  
(Headed)



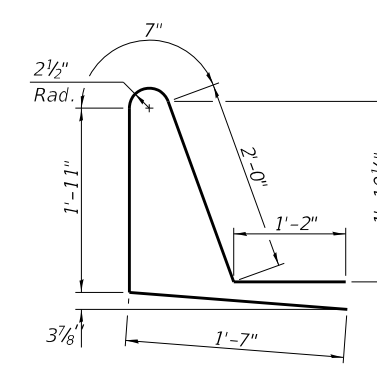
BAR s10(E)  
(Headed)



BAR s11(E)



BAR d(E)



BAR d1(E)

**SUPERSTRUCTURE**  
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
a(E)	152	#5	32'-6"	—	
a1(E)	92	#5	31'-10"	—	
a2(E)	298	#6	6'-6"	—	
a3(E)	4	#5	34'-0"	—	
b(E)	108	#5	27'-7"	—	
b1(E)	120	#5	21'-7"	—	
d(E)	168	#5	5'-7"	⌋	
d1(E)	168	#5	7'-3"	⌋	
e(E)	56	#4	18'-7"	—	
e1(E)	6	#8	29'-2"	—	
e2(E)	6	#4	26'-10"	—	
m10(E)	8	#6	34'-0"	—	
m11(E)	24	#6	6'-9"	—	
m12(E)	12	#6	2'-2"	—	
m13(E)	30	#5	4'-0"	—	
s10(E)	68	#5	7'-0"	⌋	
s11(E)	68	#5	9'-8"	⌋	
v100(E)	68	#5	3'-1"	⌋	
Reinforcement Bars, Epoxy Coated				Lbs.	22,800
Concrete Superstructure				Cu. Yds.	107.0

Bars indicated thus 1 x 2-#8 etc. indicates 1 line of bars with 2 lengths per line.

**Notes:**

- 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.

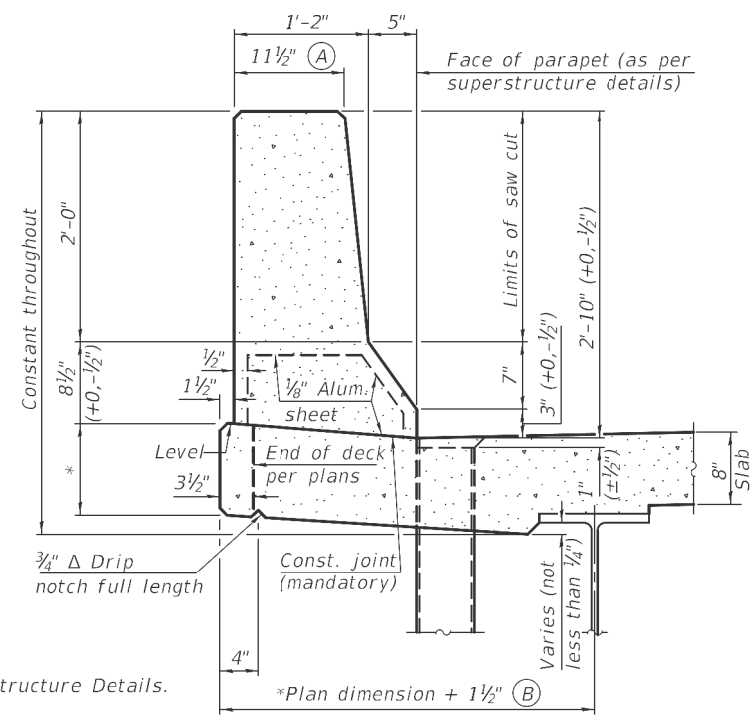
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T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	23
CONTRACT NO. 89750				
ILLINOIS FED. AID PROJECT NO. 48B7(944)				

**GENERAL NOTES**

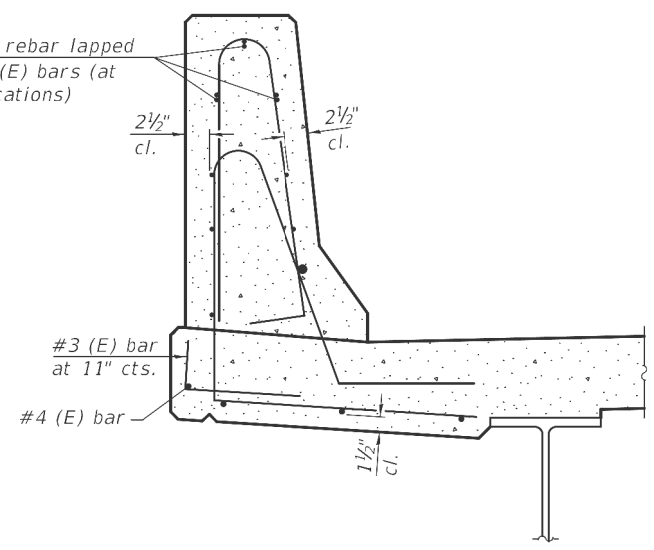
All dimensions shall remain the same as shown on superstructure details, except dimensions A and B which are to be revised as shown to provide additional clearance. Additional concrete needed to revise dimension A and B = 0.0165 cu. yds./ft. for 34" parapet or = 0.0223 cu. yds./ft. for 42" parapet. Place aluminum sheet in curb portion at and near piers. Full thickness saw cut at all joint locations in lieu of cork joint filler. Steel superstructure shown. Other superstructure types similar.



**34" F SHAPE PARAPET SECTION**  
(Showing dimensions)

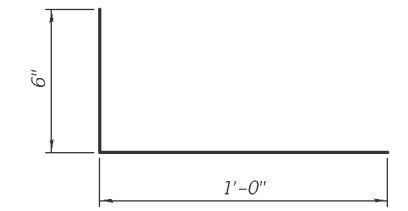
\*See Superstructure Details.

1/2" Ø GFRP rebar lapped with #4 ex(E) bars (at saw cut locations)

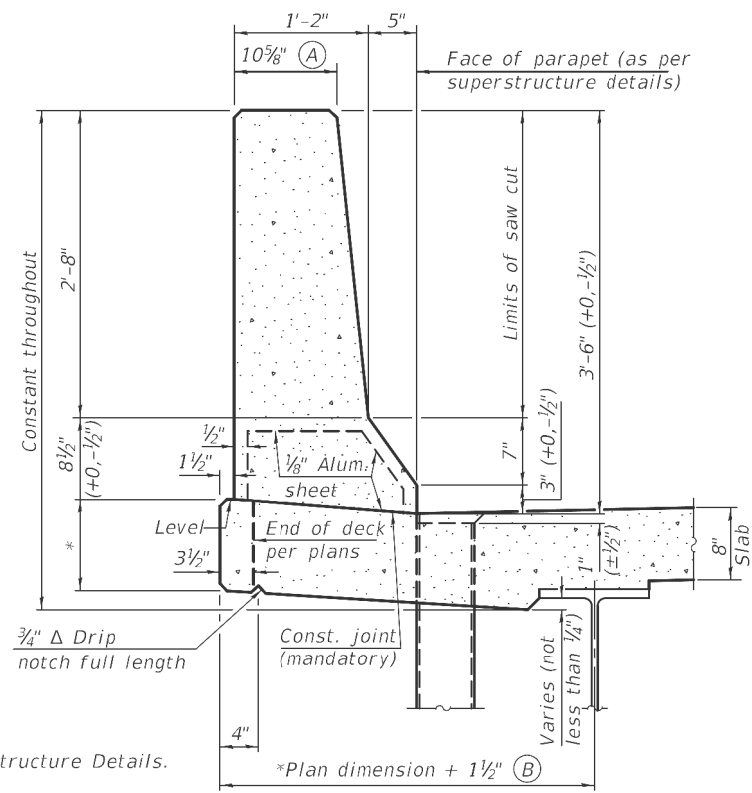


**SECTION**

(34" parapet shown - 42" parapet similar)  
(Showing reinforcement clearances for slip forming and additional reinforcement bars)

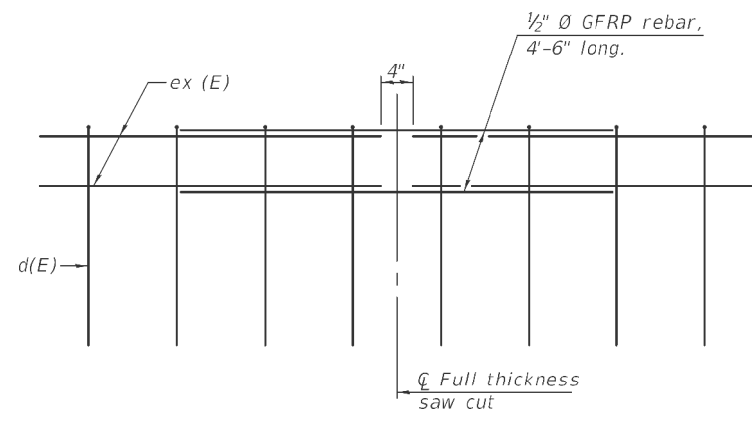


**#3 (E) BAR**



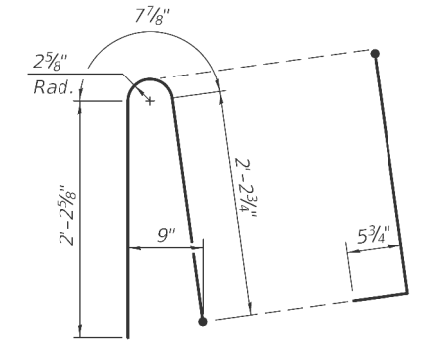
**42" F SHAPE PARAPET SECTION**  
(Showing dimensions)

\*See Superstructure Details.



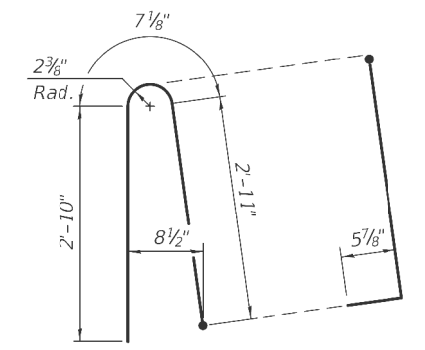
**GFRP REBAR STIFFENING DETAIL**

(Place as shown in parapet section at each parapet joint location.)



**ALTERNATE BAR d(E)**

(For 34" parapet when conduit is present)



**ALTERNATE BAR d(E)**

(For 42" parapet when conduit is present)

MODEL: Default  
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SFP 34-42

2-17-2017



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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

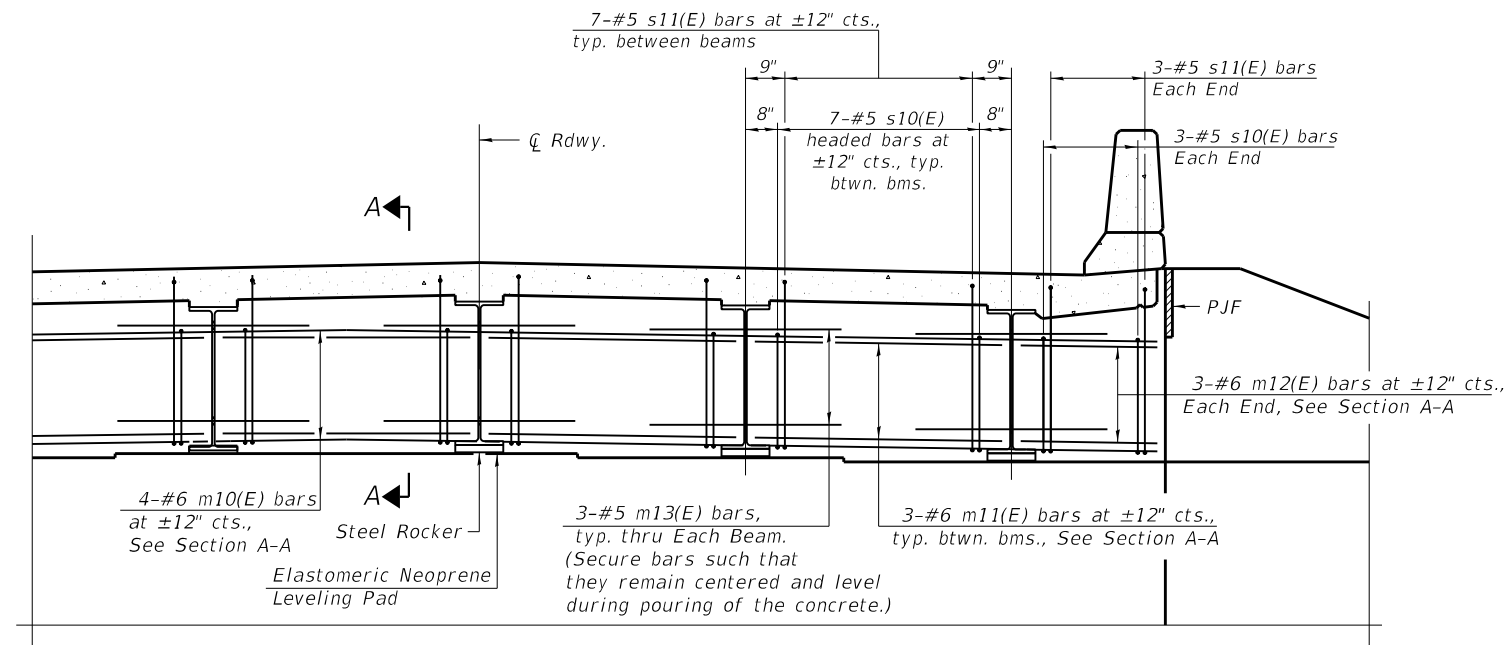
**CONCRETE PARAPET SLIFORMING OPTION  
STRUCTURE NO. 072-4318**

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	24
CONTRACT NO. 89750				

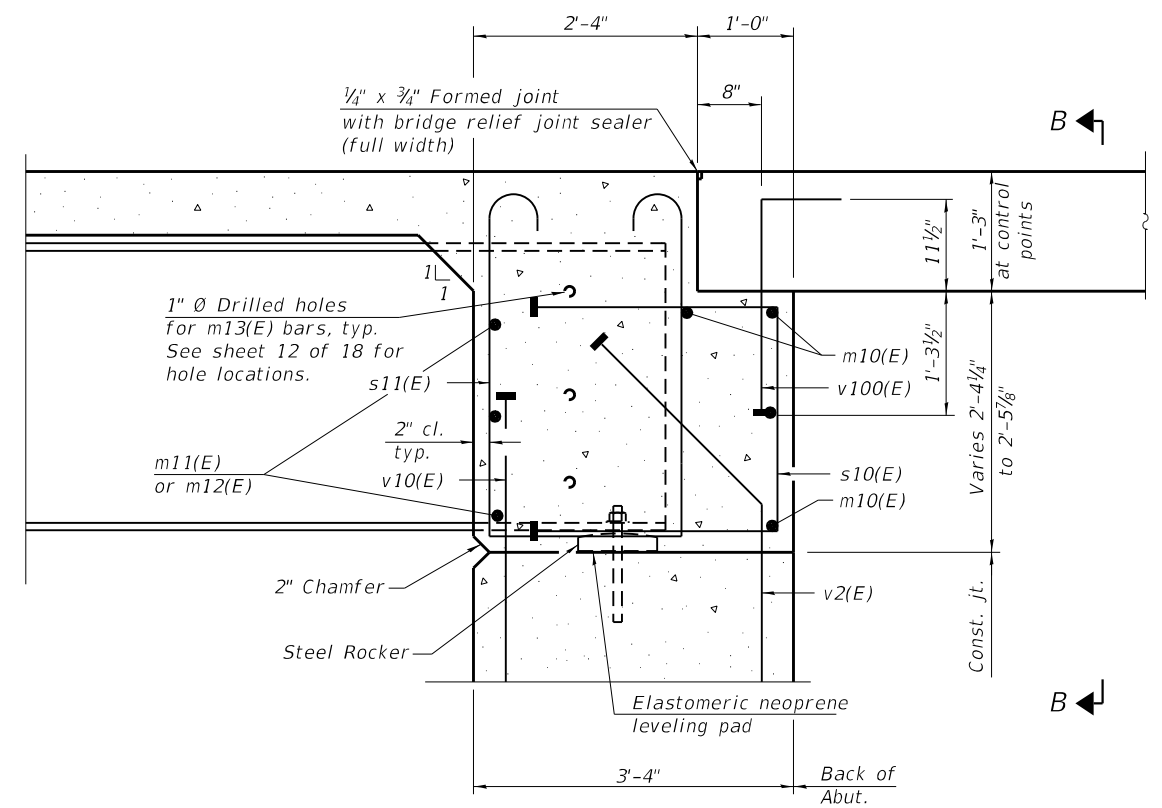
SHEET 9 OF 19 SHEETS

ILLINOIS FED. AID PROJECT NO. 48B7(944)

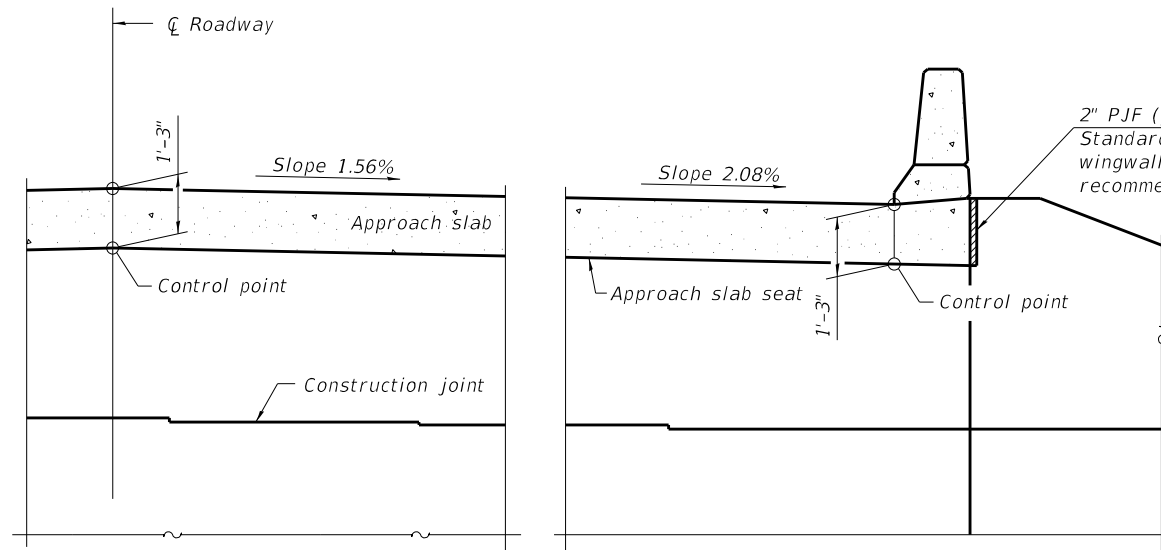




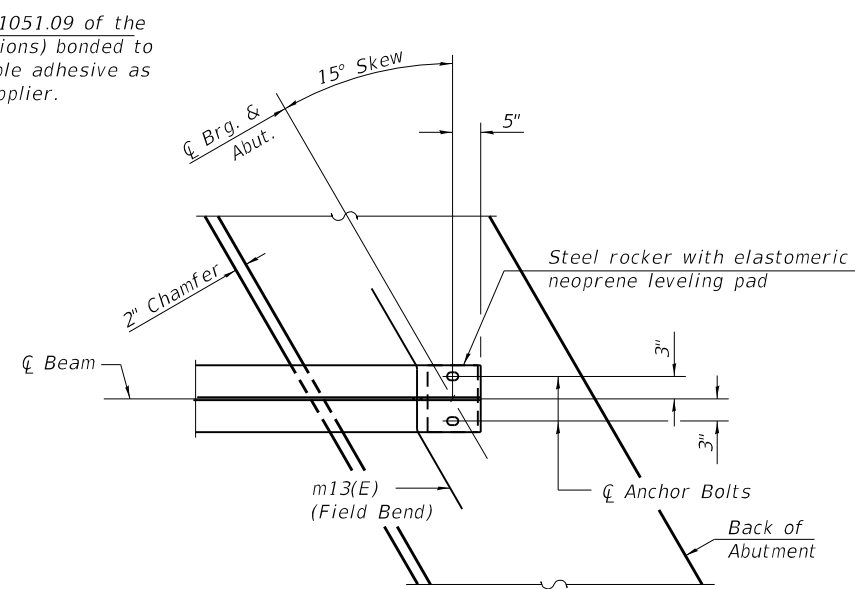
DIAPHRAGM AT ABUTMENT



SECTION A-A  
(at Rt. L's)



SECTION B-B



PLAN AT ABUTMENT  
(Showing bottom flange of beam)

Notes:  
 Reinforcement bars in diaphragm are billed with superstructure on sheet 8 of 18.  
 Concrete in diaphragm is included with Concrete Superstructure on sheet 8 of 18.  
 For details of bars s10(E), s11(E) and v100(E) see sheet 8 of 18.  
 The s10(E) and s11(E) bars shall be placed parallel to the beams. Spacing for these bars shall be at right angles to the beams.  
 The approach slab seat shall have a constant slope determined from the control points shown.  
 For bearing details see sheet 13 of 18.  
 Beams shall be braced for stability during erection and remain braced until deck is poured and cured.

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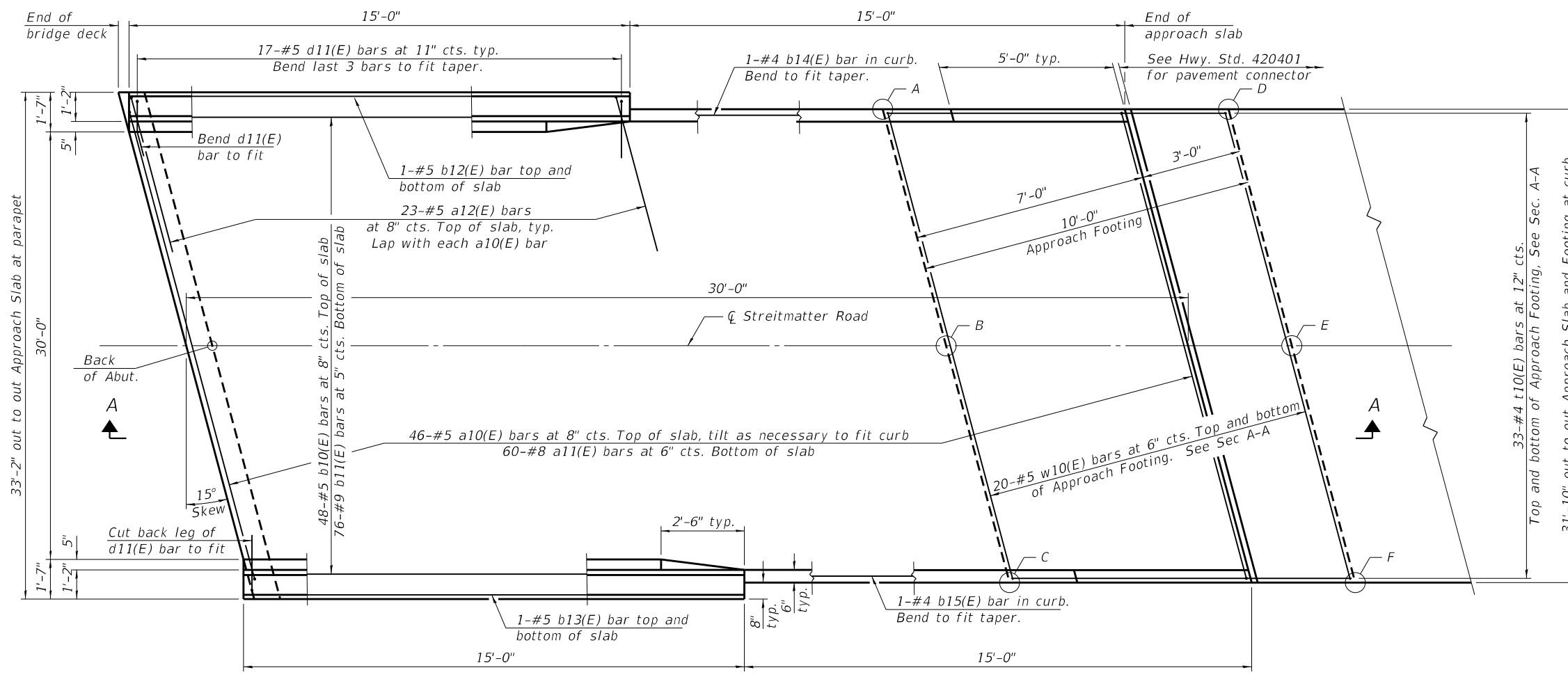
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 DEPARTMENT OF TRANSPORTATION

DIAPHRAGM DETAILS  
 STRUCTURE NO. 072-4318

SHEET 10 OF 19 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	25
CONTRACT NO. 89750				
ILLINOIS FED. AID PROJECT NO. 48B7(944)				

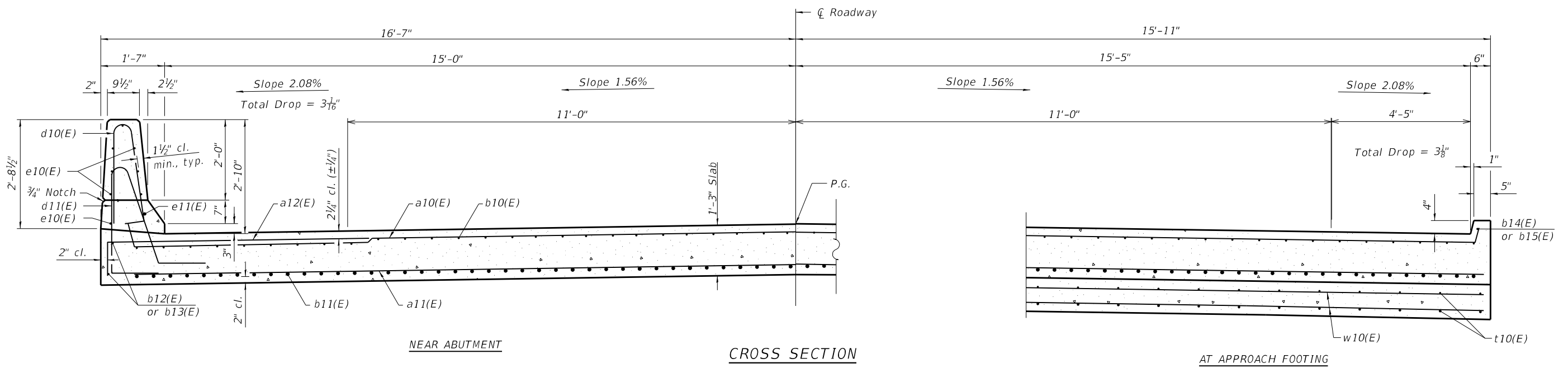


**PLAN**

East approach slab shown, West approach slab similar

**TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING**

Point	East Approach		West Approach	
	Top	Bottom	Top	Bottom
A	680.86	680.02	681.42	680.59
B	681.10	680.27	681.70	680.87
C	680.82	679.98	681.46	680.63
D	680.81	679.97	681.47	680.64
E	681.06	680.23	681.76	680.92
F	680.80	679.96	681.51	680.68



**NEAR ABUTMENT**

**CROSS SECTION**  
(Looking East)

**AT APPROACH FOOTING**

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**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

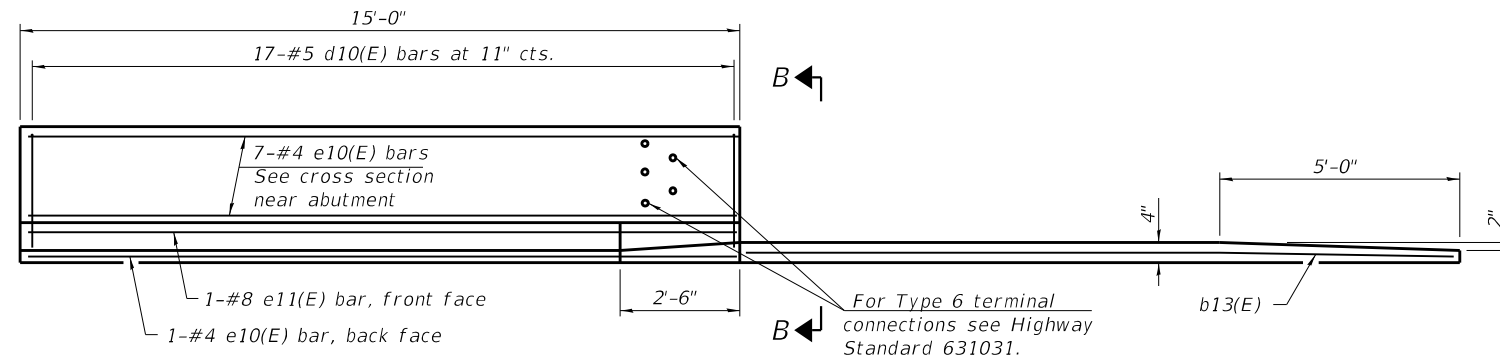
**BRIDGE APPROACH SLAB DETAILS  
STRUCTURE NO. 072-4318**

SHEET 11 OF 19 SHEETS

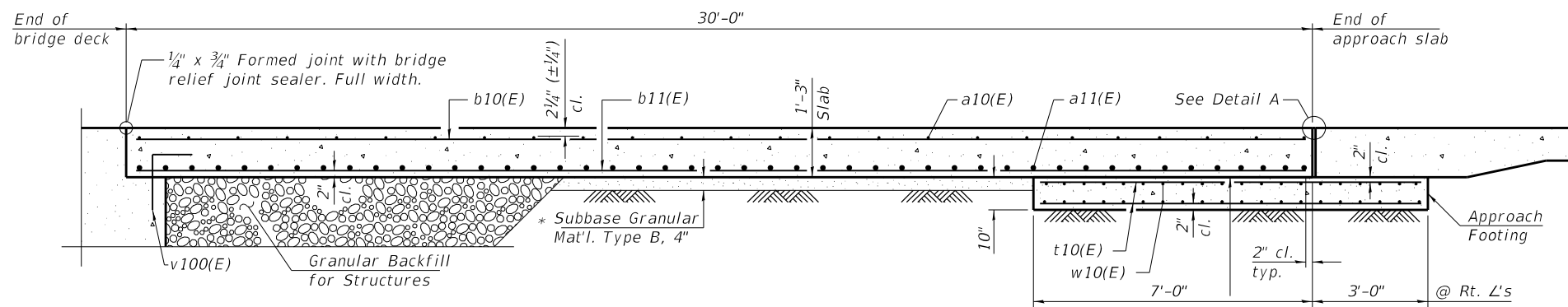
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7C	16-00080-00-BR	PEORIA	39	26
CONTRACT NO. 89750				

ILLINOIS FED. AID PROJECT NO. 48B7(944)

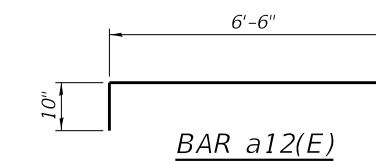
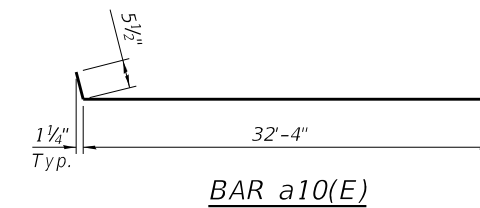
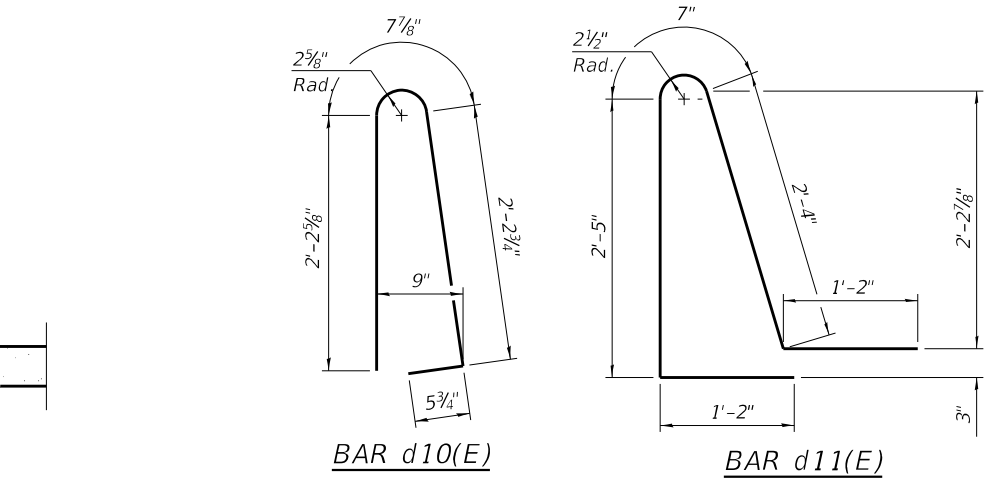
Notes:  
 The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.  
 Parapet concrete shall be paid for as Concrete Superstructure.  
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).  
 Approach footing concrete shall be paid for as Concrete Structures.  
 The approach footing maximum applied service bearing pressure ( $Q_{max}$ ) = 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 18.



INSIDE ELEVATION OF PARAPET AND CURB

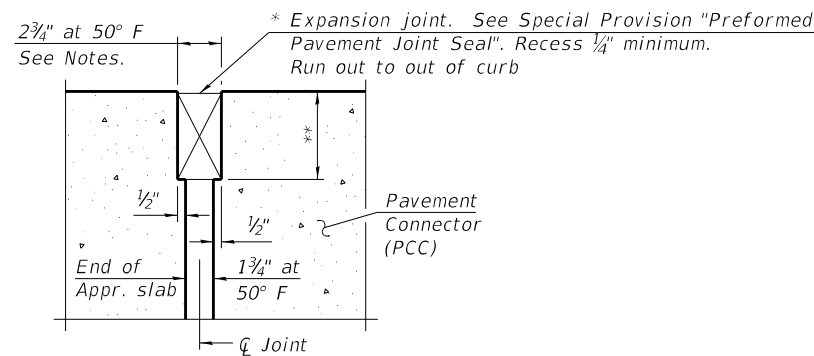


SECTION A-A

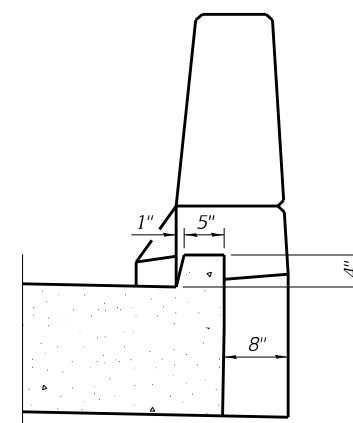


TWO APPROACHES  
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	92	#5	33'-3"	U
a11(E)	120	#8	32'-8"	U
a12(E)	92	#5	7'-4"	U
b10(E)	96	#5	29'-8"	—
b11(E)	152	#9	29'-8"	—
b12(E)	4	#5	14'-8"	—
b13(E)	4	#5	14'-8"	—
b14(E)	2	#4	14'-8"	—
b15(E)	2	#4	14'-8"	—
d10(E)	68	#5	5'-7"	U
d11(E)	68	#5	7'-8"	U
e10(E)	32	#4	14'-8"	—
e11(E)	4	#8	14'-8"	—
t10(E)	132	#4	10'-0"	—
w10(E)	80	#5	32'-7"	—
Concrete Superstructure			Cu. Yd.	6.7
Concrete Superstructure (Approach Slab)			Cu. Yd.	90.8
Concrete Structures			Cu. Yd.	20.3
Reinforcement Bars, Epoxy Coated			Pound	37,850



DETAIL A  
(@ Rt. L's)



VIEW B-B

\* Cost included with Concrete Superstructure (Approach Slab).

\*\* Per manufacturer recommendations

MODEL: Default  
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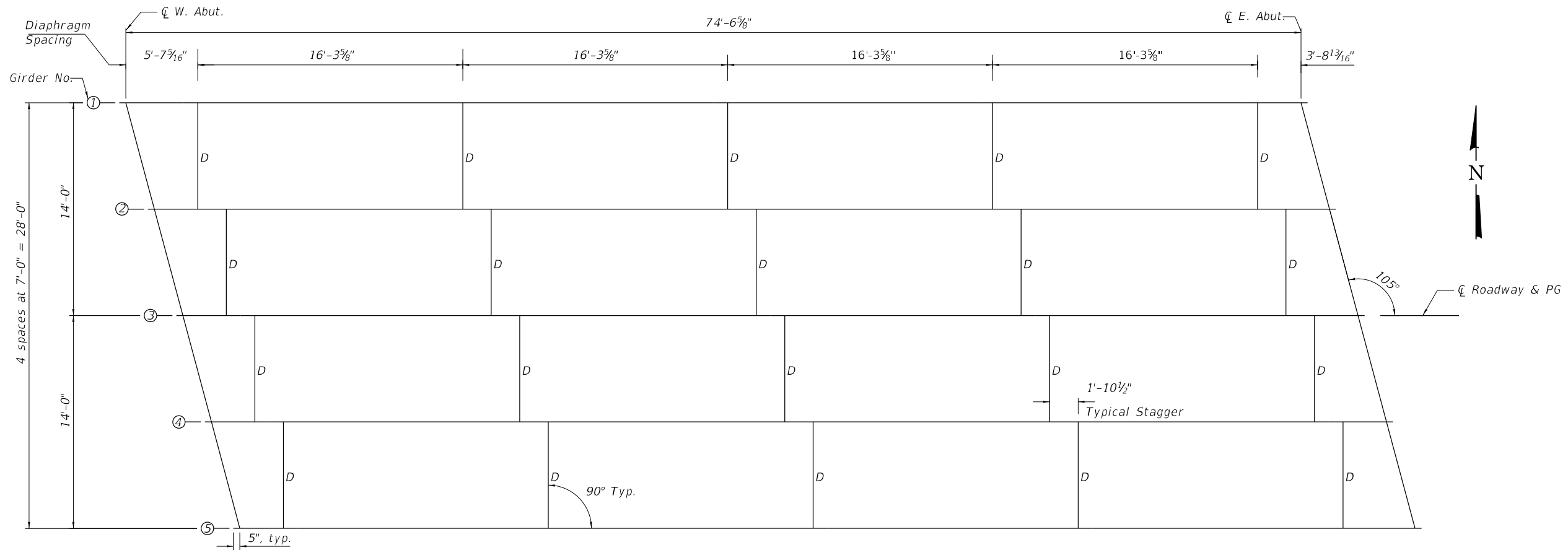
STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BRIDGE APPROACH SLAB DETAILS  
STRUCTURE NO. 072-4318

SHEET 12 OF 19 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	27
CONTRACT NO. 89750				
ILLINOIS FED. AID PROJECT NO. 48B7(944)				

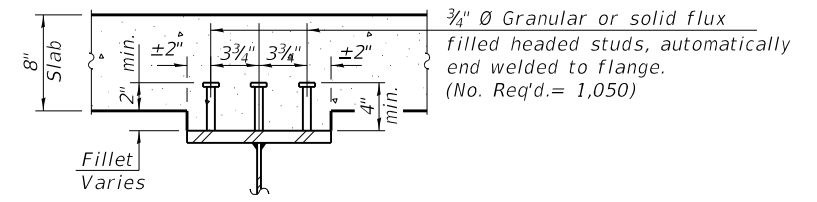
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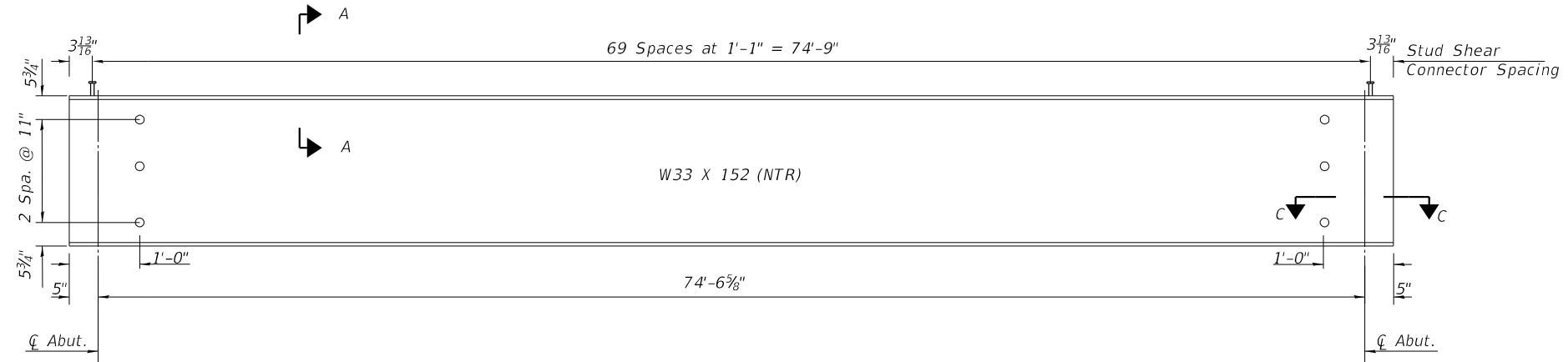
**FRAMING PLAN**

All beams are W33X152, AASHTO M270, Grade 50W (NTR)

All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.



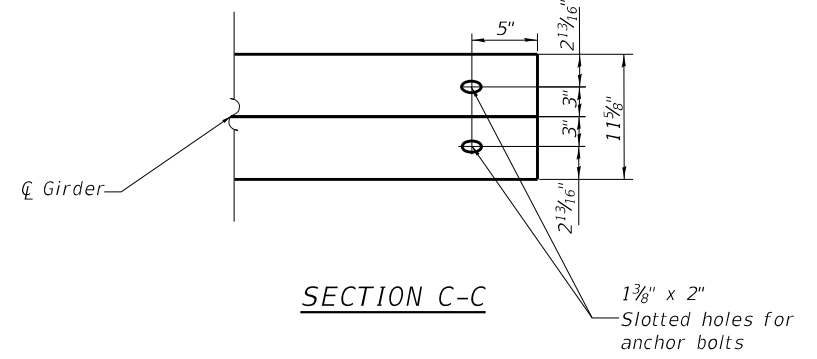
**SECTION A-A**



**GIRDER ELEVATION**

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

All plates and bearing stiffeners shall be AASHTO M270, Grade 50W



**SECTION C-C**



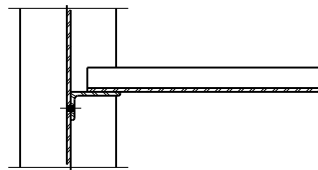
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	CHECKED - PH	REVISED -
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PLOT DATE =	CHECKED - KF	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

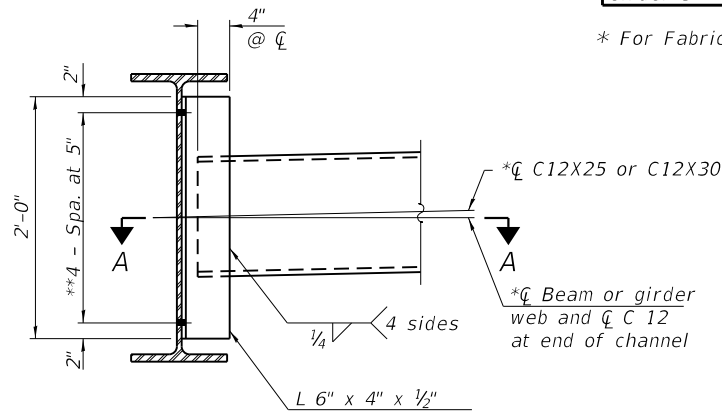
**FRAMING PLAN AND GIRDER ELEVATIONS  
 STRUCTURE NO. 072-4318**

SHEET 13 OF 19 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	28
CONTRACT NO. 89750				
ILLINOIS FED. AID PROJECT NO. 48B7(944)				

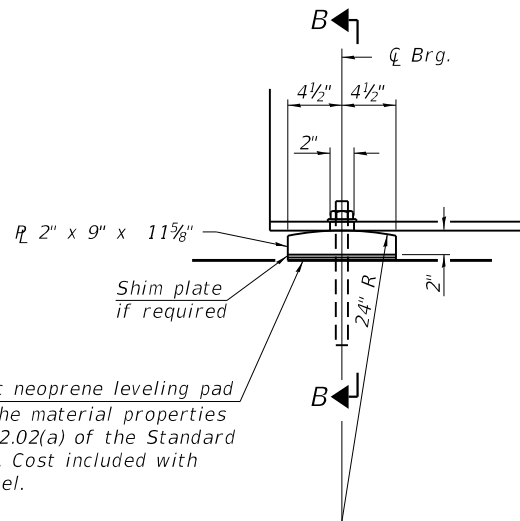


SECTION A-A



INTERIOR DIAPHRAGM D  
(20 Required)

Note:  
Two hardened washers required for each set of oversized holes.  
\*Alternate channels are permitted to facilitate material acquisition. Calculated weight of structural steel is based on the lighter section. The alternate, if utilized, shall be provided at no additional cost to the Department.  
\*\*3/4" Ø HS bolts, 1 5/16" Ø holes



ELEVATION AT ABUTMENT

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.

SECTION B-B  
1" Ø x 12" anchor bolts with 2 1/4" x 2 1/4" x 5/16" R washer under nut. 1 3/8" x 2" slotted hole in flange. 1 1/2" Ø holes in bearing plate.

FIXED BEARING

Notes:  
Anchor bolts shall be according to Article 521.06 of the Standard Specifications.  
Beams shall be braced for stability during erection and remain braced until deck is poured and cured.  
Anchor bolts at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.  
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.

\*TOP OF BEAM ELEVATIONS

Location	Ø W. Abut.	Ø E. Abut.
Girder 1	681.91	681.53
Girder 2	682.02	681.65
Girder 3	682.12	681.75
Girder 4	682.00	681.63
Girder 5	681.87	681.50

\* For Fabrication use only

INTERIOR GIRDER MOMENT TABLE		
		0.5 Span
$I_s$	(in <sup>4</sup> )	8160
$I_c(n)$	(in <sup>4</sup> )	22114
$I_c(3n)$	(in <sup>4</sup> )	16274
$S_s$	(in <sup>3</sup> )	487
$S_c(n)$	(in <sup>3</sup> )	719
$S_c(3n)$	(in <sup>3</sup> )	650
DC1	(k/')	0.892
$M_{DC1}$	(k)	619.7
DC2	(k/')	0.18
$M_{DC2}$	(k)	125.0
DW	(k/')	0.35
$M_{DW}$	(k)	243.1
LLDF		0.604
$M_L + IM$	(k)	1125.0
$M_u$ (Strength I)	(k)	3264.4
$\phi_f M_n$	(k)	3770
$f_s$ DC1	(ksi)	15.27
$f_s$ DC2	(ksi)	2.31
$f_s$ DW	(ksi)	4.49
$f_s$ (L+IM)	(ksi)	18.79
$f_s$ (Service II)	(ksi)	46.5
$0.95R_h F_y f$	(ksi)	47.5
$f_s$ (Total)(Strength I)	(ksi)	---
$\phi_f F_n$	(ksi)	---
$V_f$	(k)	23.5

	INTERIOR GIRDER REACTION TABLE	
	Abut.	
	Interior	Exterior
LLDF	0.743	0.520
OCF	---	1.0536
$R_{DC1}$	(k) 33.2	32.2
$R_{DC2}$	(k) 6.7	6.7
$R_{DW}$	(k) 13.0	13.0
$R_L$	(k) 64.5	47.6
$R_{IM}$	(k) 15.5	11.4
$R_{Total}$	(k) 133.0	110.9

$I_s, S_s$ : Non-composite moment of inertia and section modulus of the steel section used for computing  $f_s$ (Total-Strength I, and Service II) due to non-composite dead loads (in.<sup>4</sup> and in.<sup>3</sup>).

$I_c(n), S_c(n)$ : Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing  $f_s$ (Total-Strength I, and Service II) due to short-term composite live loads (in.<sup>4</sup> and in.<sup>3</sup>).

$I_c(3n), S_c(3n)$ : Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing  $f_s$ (Total-Strength I, and Service II) due to long-term composite (superimposed) dead loads (in.<sup>4</sup> and in.<sup>3</sup>).

DC1: Un-factored non-composite dead load (kips/ft.).  
 $M_{DC1}$ : Un-factored moment due to non-composite dead load (kip-ft.).  
 DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).  
 $M_{DC2}$ : Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).  
 DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).  
 $M_{DW}$ : Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).  
 $M_L + IM$ : Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).  
 $M_u$  (Strength I): Factored design moment (kip-ft.).  
 $1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_L + IM$   
 $\phi_f M_n$ : Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).  
 $f_s$  DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).  
 $M_{DC1} / S_{nc}$   
 $f_s$  DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).  
 $M_{DC2} / S_c(3n)$ .  
 $f_s$  DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).  
 $M_{DW} / S_c(3n)$ .  
 $f_s$  (L+IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live plus impact loads as calculated below (ksi).  
 $M_L + IM / S_c(n)$ .  
 $f_s$  (Service II): Sum of stresses as computed below (ksi).  
 $f_s DC1 + f_s DC2 + f_s DW + 1.3 f_s L + IM$   
 $0.95R_h F_y f$ : Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).  
 $f_s$  (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).  
 $1.25 (f_s DC1 + f_s DC2) + 1.5 f_s DW + 1.75 f_s L + IM$   
 $\phi_f F_n$ : Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).  
 $V_f$ : Maximum factored shear range in composite portion of span computed according to Article 6.10.10.

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Anchor Bolts, 1"	Each	20

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STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

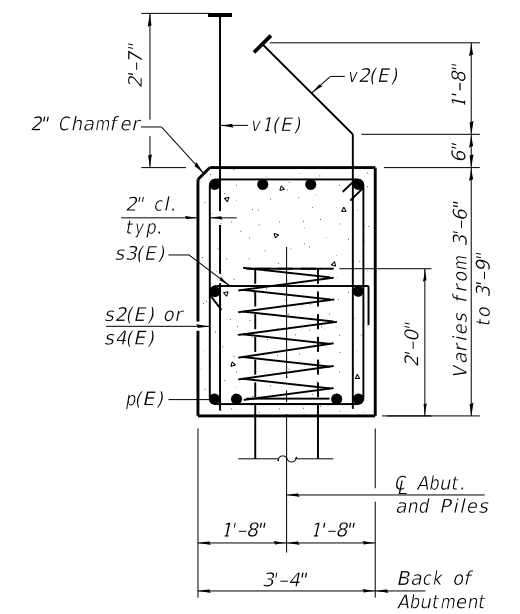
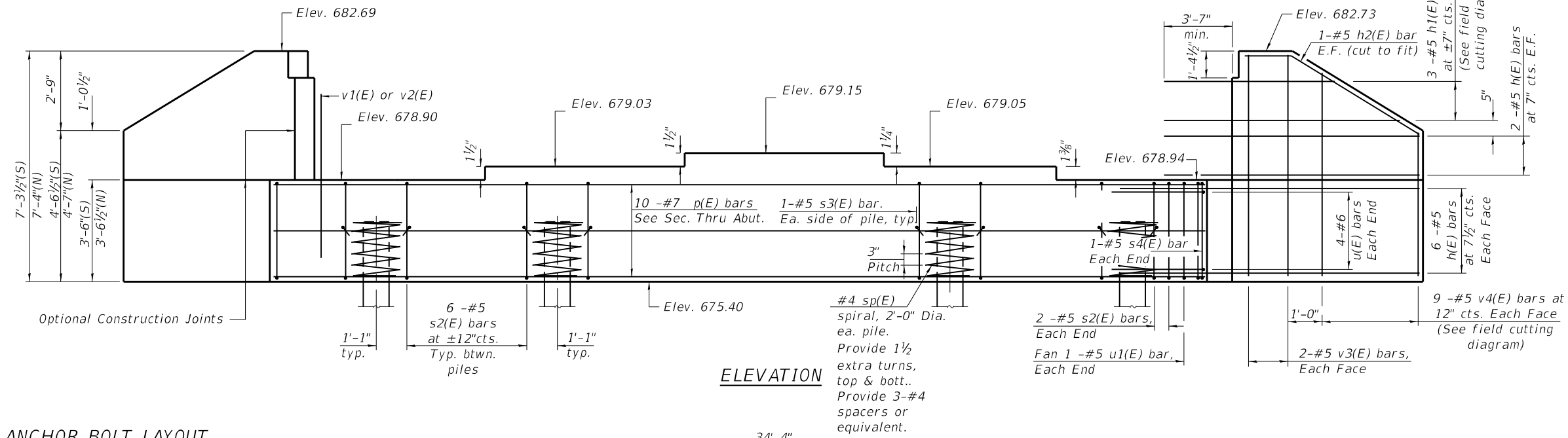
STRUCTURAL STEEL DETAILS  
STRUCTURE NO. 072-4318

SHEET 14 OF 19 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	29
CONTRACT NO. 89750				

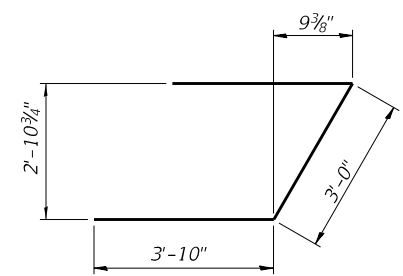
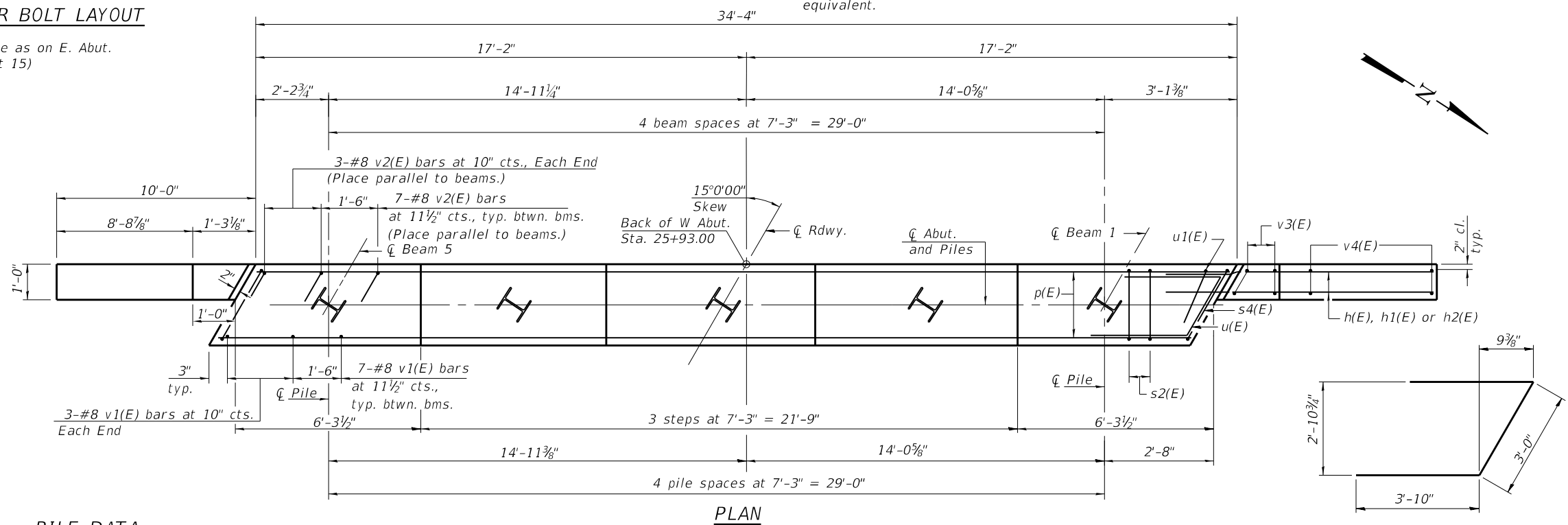
ILLINOIS FED. AID PROJECT NO. 48B7(944)

Notes:  
Pour steps monolithically with cap.



**ANCHOR BOLT LAYOUT**

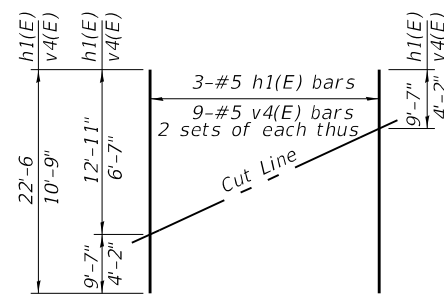
Note: Same as on E. Abut. (See Sheet 15)



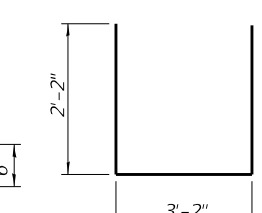
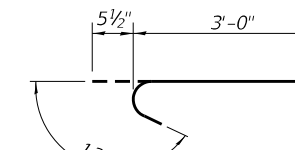
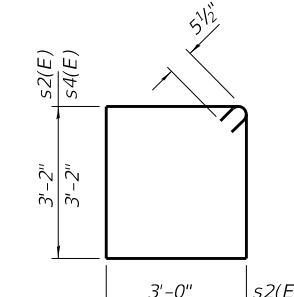
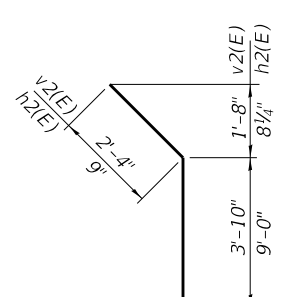
**PILE DATA**

Type: Steel - HP14x89 with Pile Shoes  
Nominal Required Bearing: 705K  
Factored Resistance Available: 388K  
Est. Length: 45 Feet  
No. Production Piles: 4  
No. Test Piles: 1

Note: It is desired that the pile tips extend to a minimum depth that is below the coal layer.



Order h1(E) and v4(E) full length. Cut as shown and use remainder of bars in opposite face.



**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	32	#5	13'-5"	—
h1(E)	6	#5	22'-6"	—
h2(E)	4	#5	9'-9"	—
p(E)	10	#7	34'-0"	—
s2(E)	28	#5	13'-3"	□
s3(E)	10	#5	4'-0"	□
s4(E)	2	#5	13'-6"	□
sp(E)	5	#4	2'-0"	WWW
u(E)	8	#6	10'-8"	—
u1(E)	2	#5	7'-6"	—
v1(E)	34	#8	5'-11"	—
v2(E)	34	#8	6'-2"	—
v3(E)	8	#5	6'-11"	—
v4(E)	18	#5	10'-9"	—
Structure Excavation		Cu. Yd.	118	
Concrete Structures		Cu. Yd.	19.8	
Reinforcement Bars, Epoxy Coated		Pound	3,540	
Furnishing Steel Piles HP 14x89		Foot	180	
Driving Piles		Foot	180	
Test Pile Steel HP 14x89		Each	1	
Pile Shoes		Each	5	

\* Length is height of spiral.  
For details of piles see sheet 16 of 18.

**BAR v2(E) & h2(E)**

**BAR s2(E) & s4(E)**

**BAR s3(E)**

**BAR u1(E)**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT  
STRUCTURE NO. 072-4318

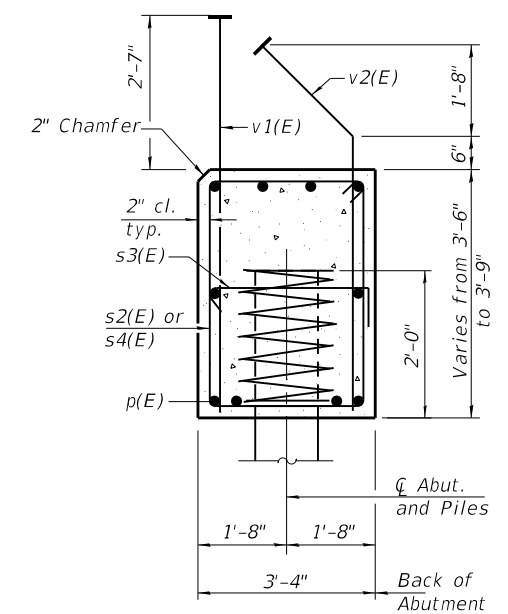
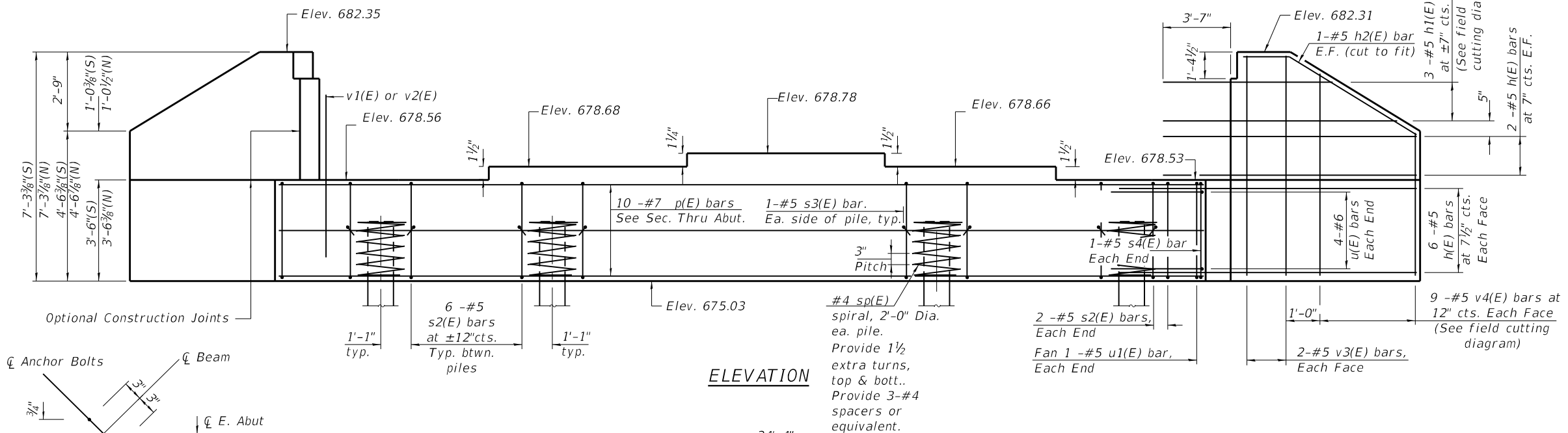
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	30
CONTRACT NO. 89750				

SHEET 15 OF 19 SHEETS

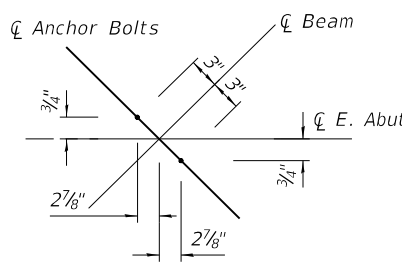
ILLINOIS FED. AID PROJECT NO. 48B7(944)

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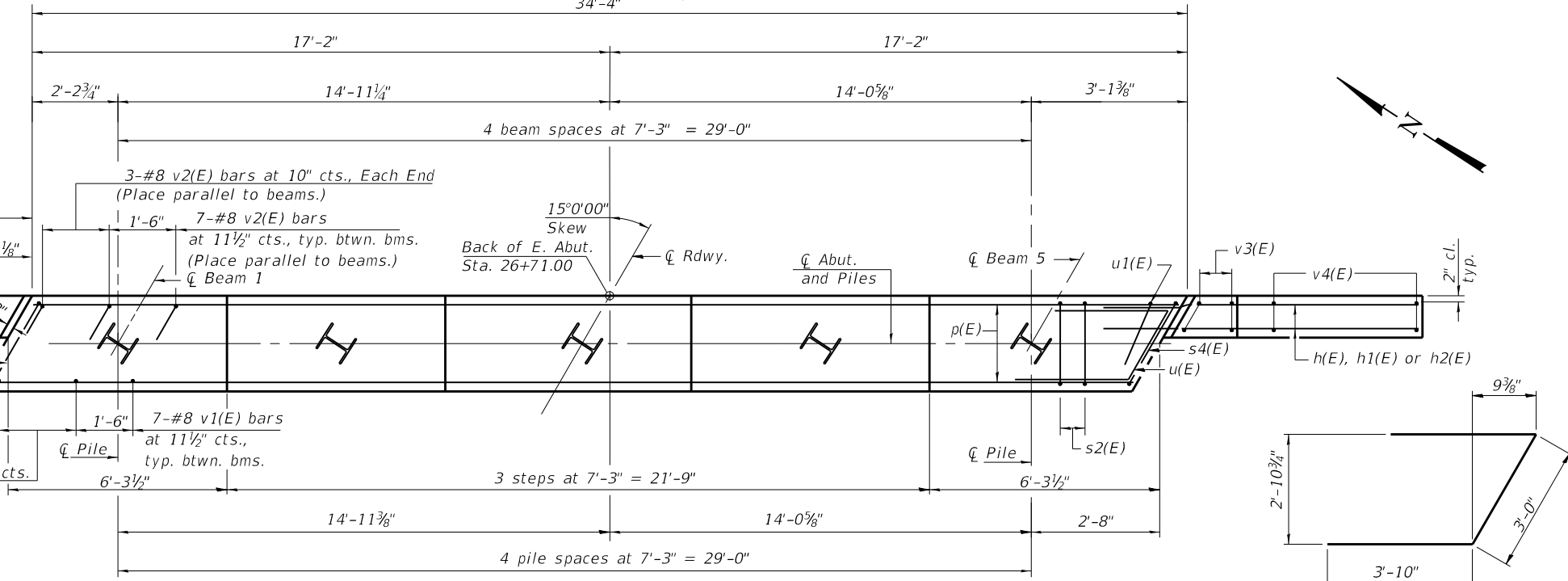
Notes:  
Pour steps monolithically with cap.



**SEC. THRU ABUT.**  
Dimensions at right angles to abutment.

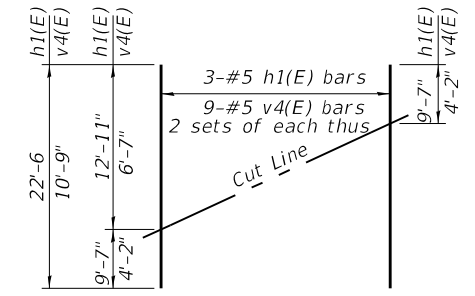


**ANCHOR BOLT LAYOUT**  
Note: Space reinforcement to miss anchor bolts.

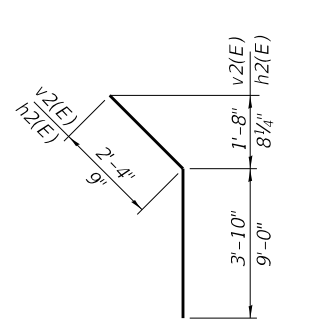


**PLAN**

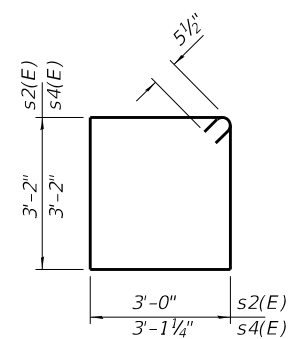
**PILE DATA**  
Type: Steel - HP14x89 with Pile Shoes  
Nominal Required Bearing: 705K  
Factored Resistance Available: 388K  
Est. Length: 28 Feet  
No. Production Piles: 4  
No. Test Piles: 1  
Note: It is desired that the pile tips extend to a minimum depth that is below the coal layer.



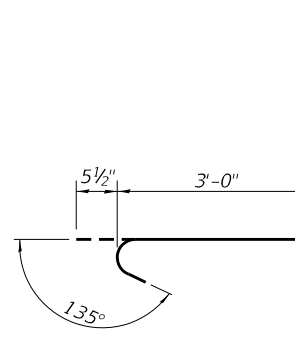
**FIELD CUTTING DIAGRAM**  
Order h1(E) and v4(E) full length. Cut as shown and use remainder of bars in opposite face.



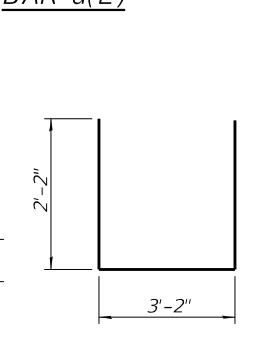
**BAR v2(E) & h2(E)**



**BAR s2(E) & s4(E)**



**BAR s3(E)**



**BAR u1(E)**

**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	32	#5	13'-5"	▬
h1(E)	6	#5	22'-6"	▬
h2(E)	4	#5	9'-9"	▬
p(E)	10	#7	34'-0"	▬
s2(E)	28	#5	13'-3"	▬
s3(E)	10	#5	4'-0"	▬
s4(E)	2	#5	13'-6"	▬
sp(E)	5	#4	2'-0"	▬
u(E)	8	#6	10'-8"	▬
u1(E)	2	#5	7'-6"	▬
v1(E)	34	#8	5'-11"	▬
v2(E)	34	#8	6'-2"	▬
v3(E)	8	#5	6'-11"	▬
v4(E)	18	#5	10'-9"	▬
Structure Excavation		Cu. Yd.	129	
Concrete Structures		Cu. Yd.	19.8	
Reinforcement Bars, Epoxy Coated		Pound	3,540	
Furnishing Steel Piles HP 14x89		Foot	112	
Driving Piles		Foot	112	
Test Pile Steel HP 14x89		Each	1	
Pile Shoes		Each	5	

\* Length is height of spiral.  
For details of piles see sheet 16 of 18.

MODEL: Default  
FILE NAME: T:\Projects\17-232\_PCHD-Strettmatter Rd. Bridge\Design\Structural\CADD\_Sheets\0724318-17232-016-EAST ABUTMENT.dgn



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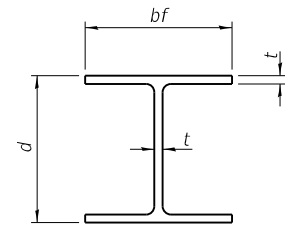
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EAST ABUTMENT  
STRUCTURE NO. 072-4318**

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	31
CONTRACT NO. 89750				

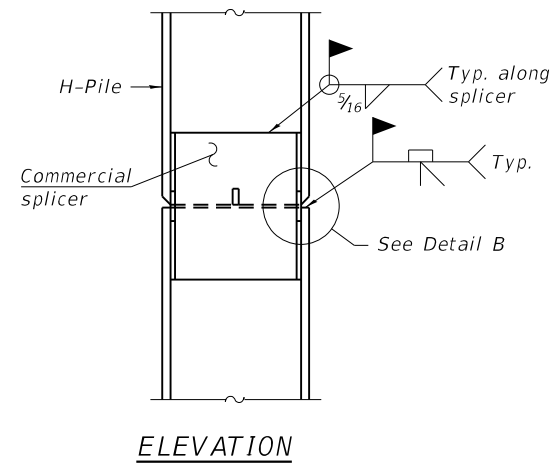
SHEET 16 OF 19 SHEETS

ILLINOIS FED. AID PROJECT NO. 48B7(944)

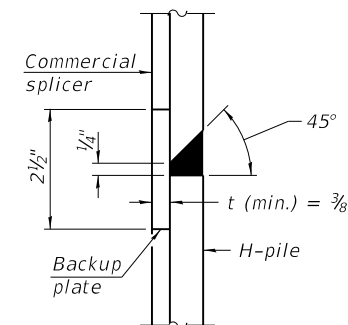


**STEEL PILE TABLE**

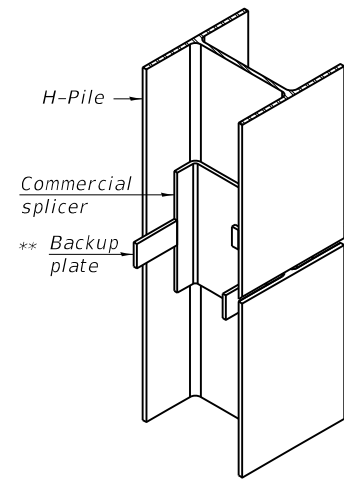
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 3/8"	14 3/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"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

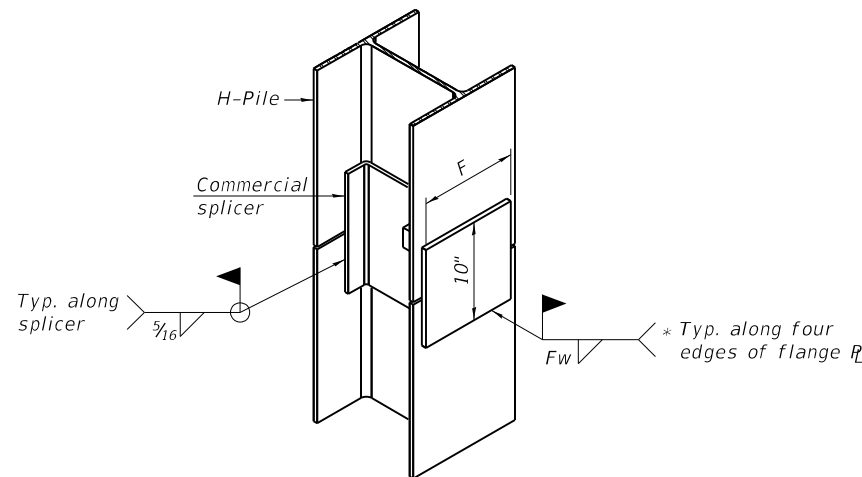


**DETAIL "B"**



**ISOMETRIC VIEW**

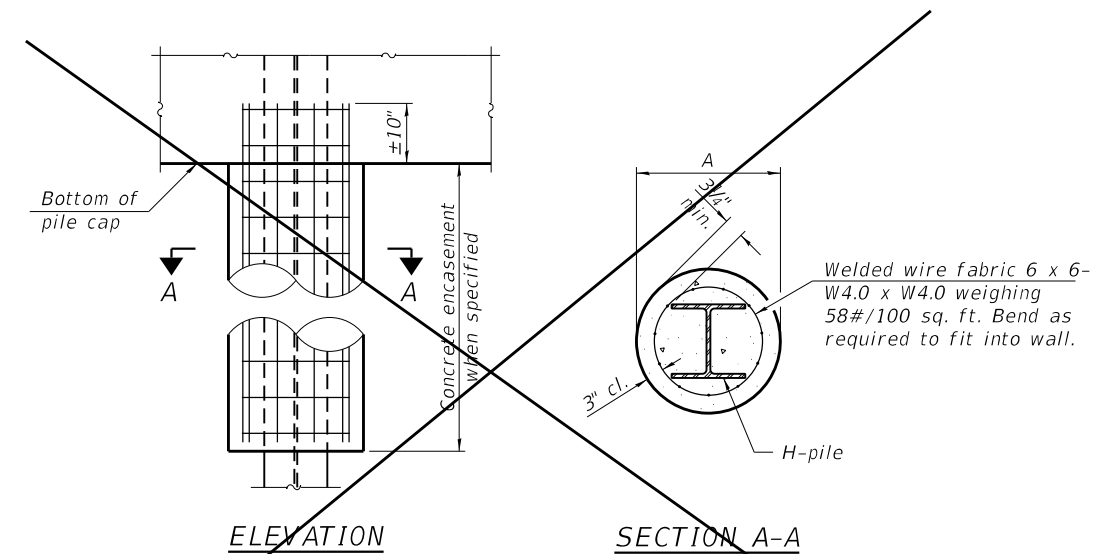
**WELDED COMMERCIAL SPLICE**



**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE ALTERNATE**

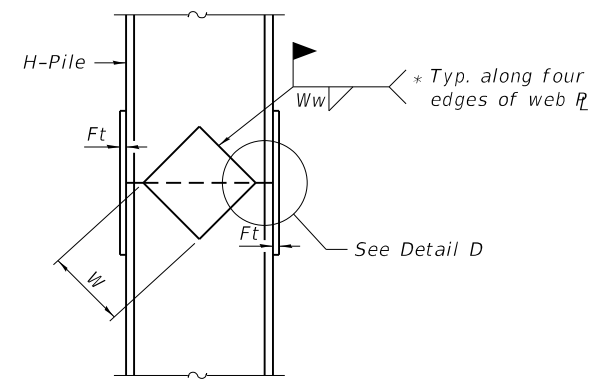
- \* Interrupt welds 1/4" from end of web and/or each flange.
- \*\* Remove portions of backup plates that extend outside the flanges.
- \*\*\* Weld size per pile shoe manufacturer (5/16" min.).



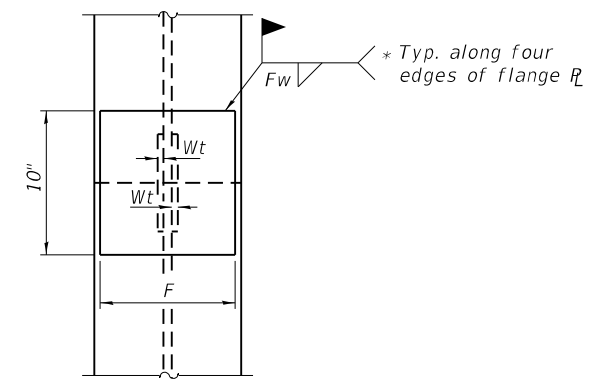
**ELEVATION**

**SECTION A-A**

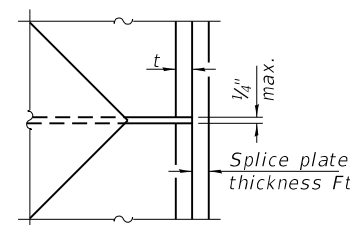
**INDIVIDUAL PILE CONCRETE ENCASUREMENT**  
(Forms for encasement may be omitted when soil conditions permit).



**ELEVATION**



**END VIEW**



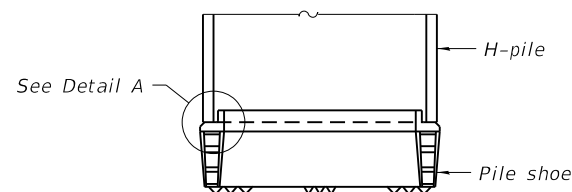
**DETAIL D**

**WELDED PLATE FIELD SPLICE**

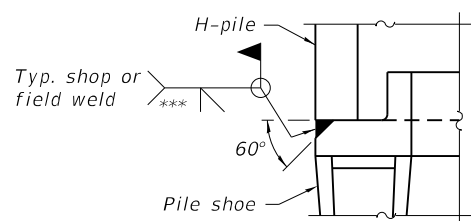
Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"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

F-HP

MODEL: Default  
FILE NAME: T:\Projects\17-232\_PCHD\_Sirelmitter Rd Bridge\Design\CADD\Structural\CADD\Sheets\0724318-17232-017-HP\_PILE\_DETAILS.dgn



USER NAME =	DESIGNED - KF	REVISED -
PLOT SCALE = 0:2.0000 '"/in.	CHECKED - PH	REVISED -
PLOT DATE =	DRAWN - AE	REVISED -
	CHECKED - KF	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS  
STRUCTURE NO. 072-4318

SHEET 17 OF 19 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	32
CONTRACT NO. 89750				
ILLINOIS FED. AID PROJECT NO. 48B7(944)				





**SOIL BORING LOG**

Date 8/4/17

ROUTE TR-36 DESCRIPTION Streitmatter Road Bridge LOGGED BY Fehl  
 SECTION 16-00080-00-BR LOCATION Princeville Township, SEC. 2, TWP. T11N, RNG. R6E, 4<sup>th</sup> PM, Latitude, Longitude  
 COUNTY Peoria DRILLING METHOD Hollow Stem Augers HAMMER TYPE D-50 Automatic

STRUCT. NO.	STATION	BORING NO.	STATION	Offset	Ground Surface Elev.	ft	(ft)	(6")	(tsf)	(%)	Surface Water Elev.	ft	Stream Bed Elev.	ft	Groundwater Elev.:	ft	First Encounter	ft	Upon Completion	ft	After	Hrs.	(ft)	(6")	(tsf)	(%)	
072-4318	27+50	B-01	27+11	0.0 ft Centerline	98.10																						
		BITUMINOUS CONCRETE / OIL & CHIPS (9.0')			97.35																						
		CA-6 CRUSHED LIMESTONE (20.0')			96.43																						
		Medium, Dark Brown SILTY CLAY LOAM With Trace Of Organic Matter																									
		Medium, Dark Brown SILTY CLAY LOAM (Fill)			94.10																						
		Medium, Dark Brown and Brown SILTY CLAY (Fill)			91.60																						
		Stiff, Dark Gray SILTY CLAY With Trace of Organic Matter			86.10																						
		Stiff, Gray and Light Brown SILTY CLAY LOAM			81.10																						

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, form 137 (Rev. 8-99)



**SOIL BORING LOG**

Date 8/4/17

ROUTE TR-36 DESCRIPTION Streitmatter Road Bridge LOGGED BY Fehl  
 SECTION 16-00080-00-BR LOCATION Princeville Township, SEC. 2, TWP. T11N, RNG. R6E, 4<sup>th</sup> PM, Latitude, Longitude  
 COUNTY Peoria DRILLING METHOD Hollow Stem Augers HAMMER TYPE D-50 Automatic

STRUCT. NO.	STATION	BORING NO.	STATION	Offset	Ground Surface Elev.	ft	(ft)	(6")	(tsf)	(%)	Surface Water Elev.	ft	Stream Bed Elev.	ft	Groundwater Elev.:	ft	First Encounter	ft	Upon Completion	ft	After	Hrs.	(ft)	(6")	(tsf)	(%)	
072-4318	27+50	B-01	27+11	0.0 ft Centerline	98.10																						
		Hard, Gray and Dark Gray CLAY SHALE (continued)			45																						
		Hard, Gray SHALE			55.10																						
		Benchmark (100.0) Nail in Powerpole West of Bridge and North of Road			45																						
		Hard, Black COAL			68.60																						
		Hard, Gray and Dark Gray CLAY SHALE			65.60																						
		End of Boring			47.10																						

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, form 137 (Rev. 8-99)

MODEL: Default  
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USER NAME =	DESIGNED - KF	REVISED -
CHECKED - PH	REVISED -	
PLOT SCALE = 0:2.0000 " = 1 in.	DRAWN - AE	REVISED -
PLOT DATE =	CHECKED - KF	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOG  
 STRUCTURE NO. 072-4318**

SHEET 18 OF 19 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	33
CONTRACT NO. 89750				
ILLINOIS FED. AID PROJECT NO. 48B7(944)				



**SOIL BORING LOG**

Date 8/4/17

ROUTE TR-36 DESCRIPTION Streitmatter Road Bridge LOGGED BY Fehl  
 SECTION 16-00080-00-BR LOCATION Princeville Township, SEC. 2, TWP. T11N, RNG. R6E, 4<sup>th</sup> PM.  
 COUNTY Peoria DRILLING METHOD Hollow Stem Augers HAMMER TYPE D-50 Automatic

STRUCT. NO.	STATION	BORING NO.	STATION	OFFSET	GROUND SURFACE ELEV.	D	B	U	M	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After 4 Hrs.	(ft)	(ft)	(%)	(tsf)	(%)
072-4318	27+50	B-02	27+75	0.0 ft Centerline	97.70															
BITUMINOUS CONCRETE / OIL & CHIPS (6.0')																				
CA-6 CRUSHED LIMESTONE (16.0')																				
Stiff, Dark Brown and Gray-Brown SILTY CLAY (Fill)																				
DD = 98 PCF																				
Medium, Dark Brown and Gray-Brown SILTY CLAY (Fill)																				
DD = 91 PCF																				
Stiff, Dark Brown SILTY CLAY																				
DD = 88 PCF																				
Medium, Gray and Light Brown SILTY CLAY LOAM																				

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, form 137 (Rev. 8-99)



**SOIL BORING LOG**

Date 8/4/17

ROUTE TR-36 DESCRIPTION Streitmatter Road Bridge LOGGED BY Fehl  
 SECTION 16-00080-00-BR LOCATION Princeville Township, SEC. 2, TWP. T11N, RNG. R6E, 4<sup>th</sup> PM.  
 COUNTY Peoria DRILLING METHOD Hollow Stem Augers HAMMER TYPE D-50 Automatic

STRUCT. NO.	STATION	BORING NO.	STATION	OFFSET	GROUND SURFACE ELEV.	D	B	U	M	Surface Water Elev.	Stream Bed Elev.	Groundwater Elev.:	First Encounter	Upon Completion	After 4 Hrs.	(ft)	(ft)	(%)	(tsf)	(%)
072-4318	27+50	B-02	27+75	0.0 ft Centerline	97.70															
Hard, Gray SHALE (continued)																				
DD = 125 PCF																				
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, form 137 (Rev. 8-99)

MODEL: Default  
 FILE NAME: T:\Projects\17-232\_PCHD-Streitmatter Rd Bridge\Design\CADD\Structural\CADD\_Sheets\0724318-17232-019-BORING LOG 2.dgn



USER NAME =	DESIGNED - KF	REVISED -
CHECKED - PH	REVISOR -	
PLOT SCALE = 0:2.0000 " = 1"	DRAWN - AE	REVISOR -
PLOT DATE =	CHECKED - KF	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SOIL BORING LOG  
 STRUCTURE NO. 072-4318**

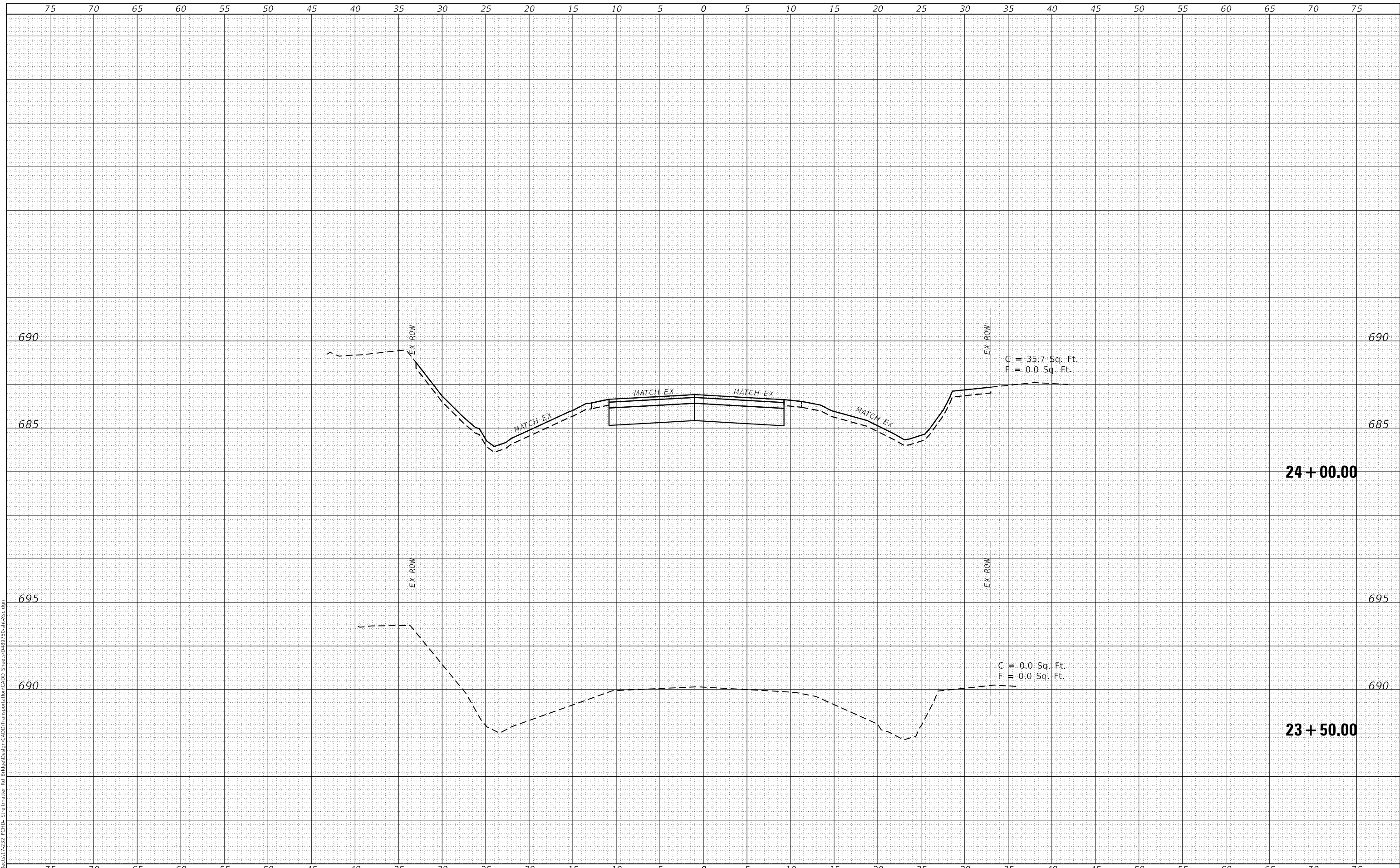
SHEET 19 OF 19 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	34
CONTRACT NO. 89750				
ILLINOIS FED. AID PROJECT NO. 48B7(944)				

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

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

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 FILE NAME: T:\projects\17-252\_PCID- Streitmatter Rd Bridge\Design\CADD\Transportation\CADD\_Sheets\049730-00-13-01.dgn



USER NAME = brennar	DESIGNED - CC	REVISED -
	DRAWN - CC	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - LJ	REVISED -
PLOT DATE = 4/30/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

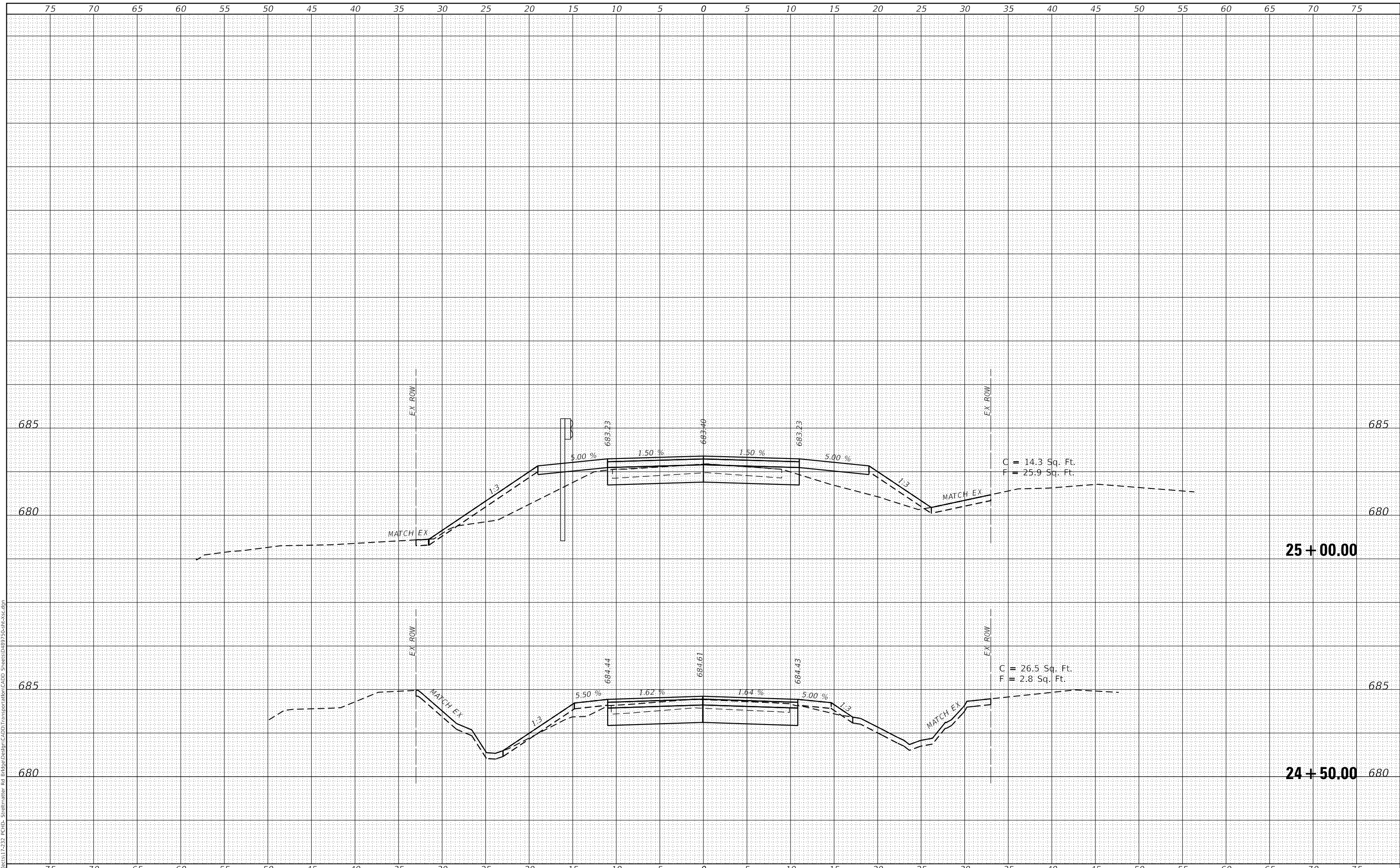
<b>CROSS SECTIONS</b>			
<b>STREITMATTER RD OVER BRANCH OF SPOON RIVER</b>			
SCALE: 1:5H, 1:2.5V	SHEET 1	OF 5 SHEETS	STA. 23+50.00 TO STA. 24+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	35
			CONTRACT NO. 89750	
ILLINOIS		FED. AID PROJECT	4BB7(944)	

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

ORIGINAL SURVEY NO.	SURVEYED	DATE
	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

MODEL: XS\_SHEET\_Temporary\_model\_name\_2  
 FILE NAME: T:\projects\17-252-PCID-Streetmatter Rd Bridge\Design\CADD\Transportation\CADD\_Sheets\049730-02b-13c.dgn



USER NAME = brennar	DESIGNED - CC	REVISED -
	DRAWN - CC	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - LJ	REVISED -
PLOT DATE = 4/30/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

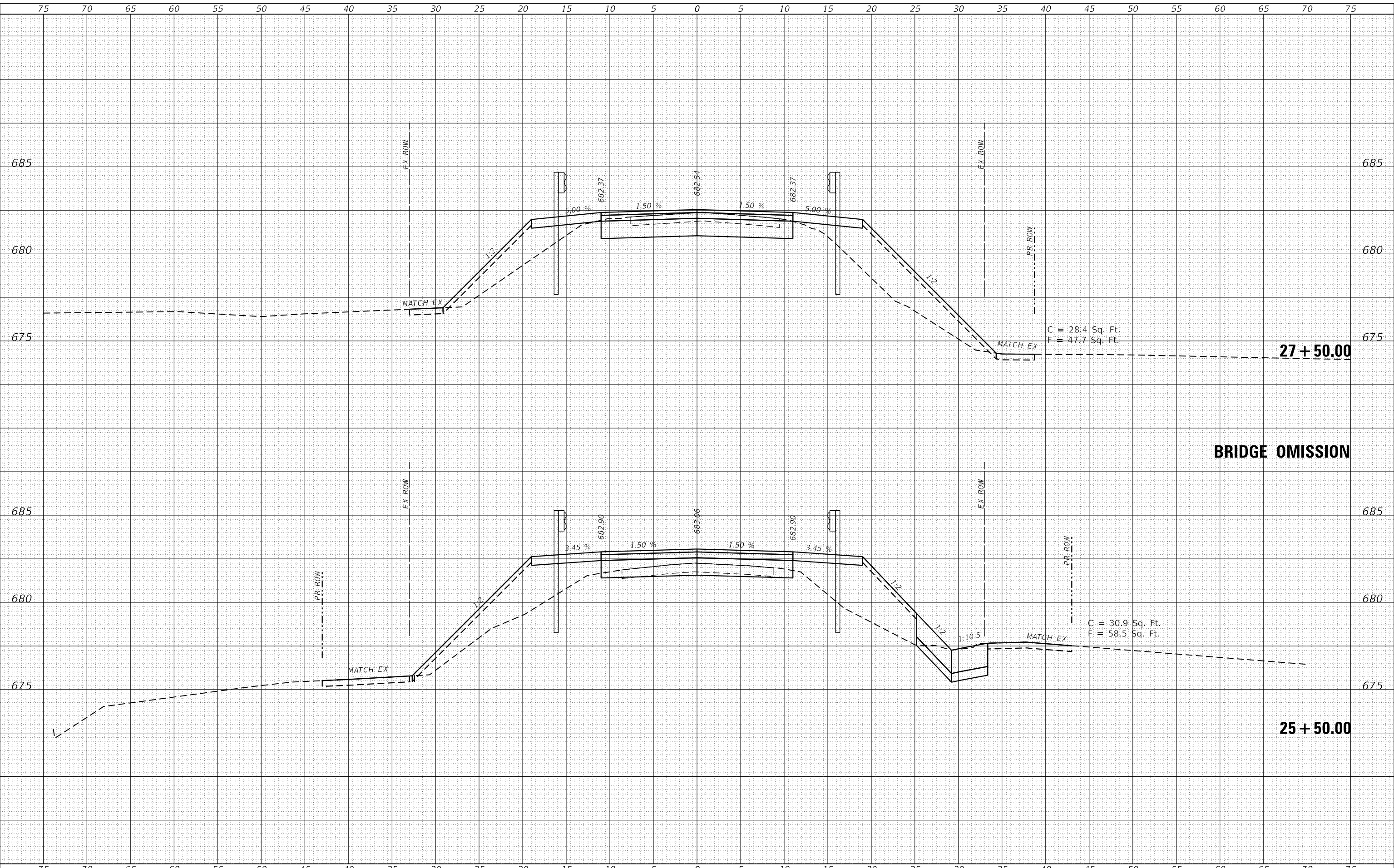
<b>CROSS SECTIONS</b>	
<b>STREITMATTER RD OVER BRANCH OF SPOON RIVER</b>	
SCALE: 1:5H, 1:2.5V	SHEET 2 OF 5 SHEETS
STA. 24+50.00	TO STA. 25+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	36
CONTRACT NO. 89750			ILLINOIS FED. AID PROJECT 4BB7(944)	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

MODEL: XS\_SHEET\_Temporary\_model\_name\_3  
 FILE NAME: T:\projects\17-252\_Peoria-Streitmatter\_Rd\_Bridge\Design\CADD\Transportation\CADD\_Sheets\04B9730-2b1-kc.dgn



C = 28.4 Sq. Ft.  
 F = 47.7 Sq. Ft.

C = 30.9 Sq. Ft.  
 F = 58.5 Sq. Ft.

**BRIDGE OMISSION**



USER NAME = brennar	DESIGNED - CC	REVISED -
PLOT SCALE = 10.0000' / in.	DRAWN - CC	REVISED -
PLOT DATE = 4/30/2019	CHECKED - LJ	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
 STREITMATTER RD OVER BRANCH OF SPOON RIVER**

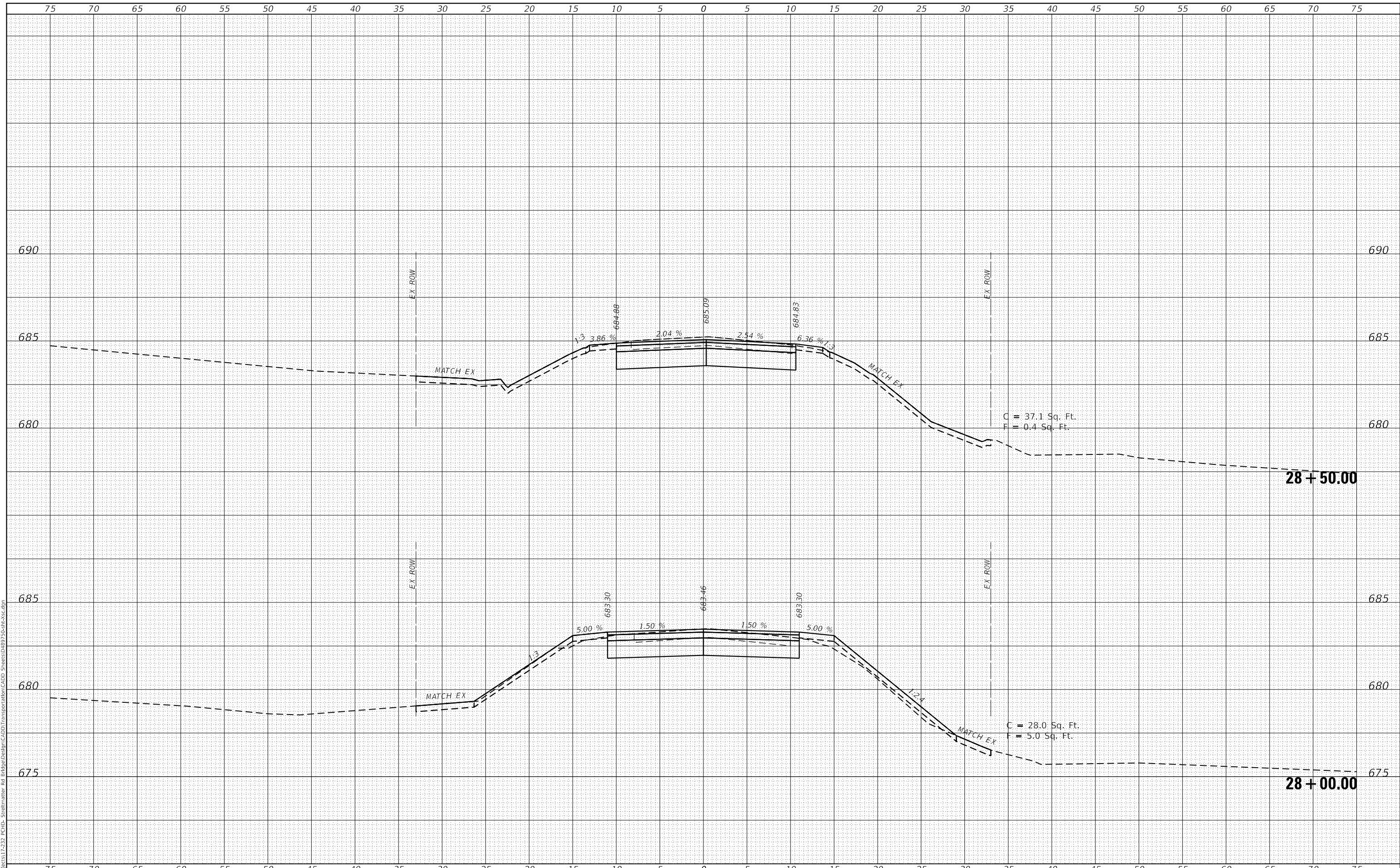
SCALE: 1:5H, 1:2.5V SHEET 3 OF 5 SHEETS STA. 25+50.00 TO STA. 27+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	37
			CONTRACT NO. 89750	
		ILLINOIS	FED. AID PROJECT	4BB7(944)

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

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

MODEL: XS\_SHEET\_Temporary\_model\_name\_4  
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USER NAME = brennar	DESIGNED - CC	REVISIONS
PLOT SCALE = 10.0000' / in.	DRAWN - CC	REVISIONS
PLOT DATE = 4/30/2019	CHECKED - LJ	REVISIONS
	DATE -	REVISIONS

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS  
STREITMATTER RD OVER BRANCH OF SPOON RIVER**

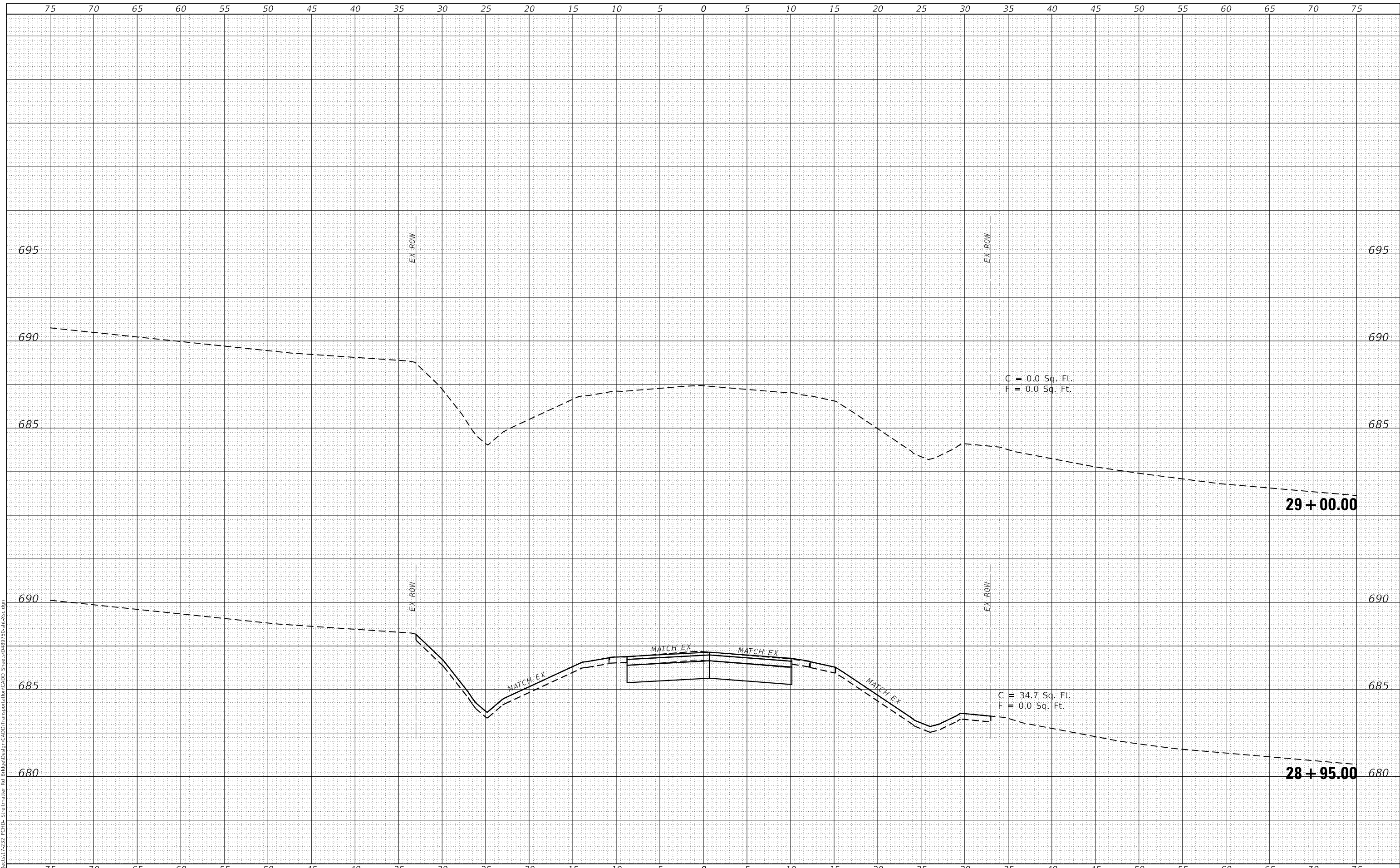
SCALE: 1:5H, 1:2.5V SHEET 4 OF 5 SHEETS STA. 28+00.00 TO STA. 28+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	38
CONTRACT NO. 89750				
ILLINOIS FED. AID PROJECT 4BB7(944)				

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

ORIGINAL SURVEY NO.	SURVEYED	DATE
	PLOTTED	
	TEMPLATE	
	AREAS CHECKED	

MODEL: XS\_SHEET\_Temporary\_model\_name\_5  
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USER NAME = brennar	DESIGNED - CC	REVISED -
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PLOT SCALE = 10.0000' / in.	CHECKED - LJ	REVISED -
PLOT DATE = 4/30/2019	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>CROSS SECTIONS</b>			
<b>STREITMATTER RD OVER BRANCH OF SPOON RIVER</b>			
SCALE: 1:5H, 1:2.5V	SHEET 5	OF 5	SHEETS
STA. 28+95.00	TO STA. 29+00.00		

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
7C	16-00080-00-BR	PEORIA	39	39
			CONTRACT NO. 89750	
		ILLINOIS	FED. AID PROJECT	4BB7(944)