

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PLANS FOR PROPOSED
SURFACE TRANSPORTATION PROGRAM- BRIDGE
PIKE COUNTY
SECTION 13-00092-00-BR
F.A.S. 597 (CH 4) OVER BULL RUN CREEK
PROJECT NO. BRS-0597(105)
JOB NUMBER C-96-220-15

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	GENERAL NOTES, TYPICAL SECTIONS, PAVEMENT DESIGN INFORMATION, DETAILS
3.	SUMMARY OF QUANTITIES, SCHEDULES OF QUANTITIES
4.	TRAFFIC CONTROL PLAN
5.	EROSION CONTROL PLAN
6.	PLAN AND PROFILE
7.-18.	STRUCTURE PLANS
19.-23.	CROSS SECTIONS

REQUIRED HIGHWAY STANDARDS

- 000001-06
- 280001-07
- 515001-03
- 630301-06
- 631032-08
- 635006-03
- 701901-04
- 780001-05
- BLR 21-9



UTILITY COMPANIES

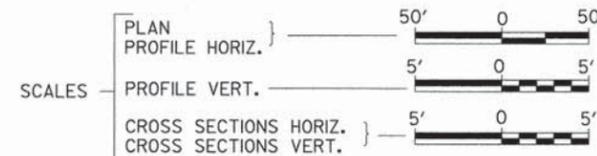
ILLINOIS RURAL ELECTRIC
WINCHESTER, ILLINOIS

PIKE COUNTY WATER DISTRICT
PITTSFIELD, ILLINOIS

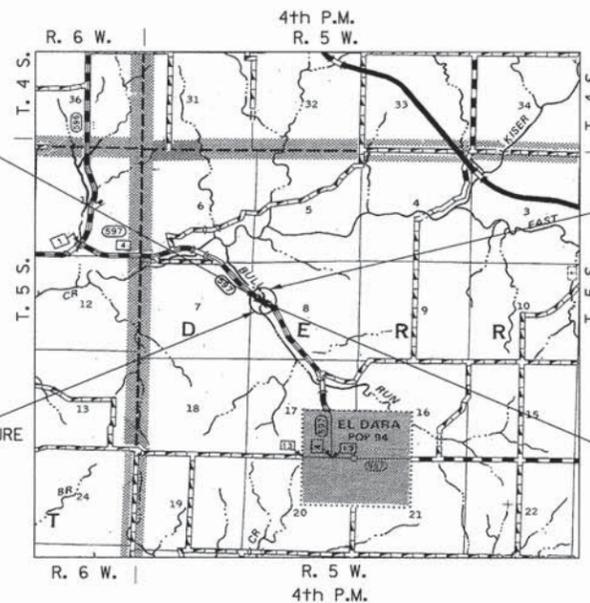
FRONTIER COMMUNICATIONS
JACKSONVILLE, ILLINOIS

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

CONTRACT NO. 93666



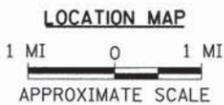
SECTION 13-00092-00-BR
ENDS
STATION 22+25.00



EXISTING STRUCTURE 075-3003
THREE SPAN REINFORCED CONCRETE SLAB
SUPERSTRUCTURE ON EXPOSED PILE BENT
PIERS AND CONCRETE PILE BENT ABUTMENTS
110'-0" BK. TO BK., 28'-4" O. TO O.,
SKEW 20° RT AH (TO BE REMOVED)

PROPOSED STRUCTURE SN 075-3327
TWO SPAN 27" & 33" PPC DECK BEAM SUPERSTRUCTURE
ON A CONCRETE ENCASED PILE BENT PIER AND
CONCRETE SPILL THRU PILE BENT ABUTMENTS,
145'-0" BK TO BK, AND 32'-0" O TO O DECK,
NO SKEW

SECTION 13-00092-00-BR
BEGINS
STATION 18+00.00



NET LENGTH OF PROJECT = 425.00 FEET = 0.081 MILES

DESIGN CLASSIFICATION: MAJOR COLLECTOR (NON-URBAN)
DESIGN ADT = 385 (16)
DESIGN SPEED = 40 MPH

Hutchison Engineering, Inc.
JACKSONVILLE-SHOREWOOD-PEORIA

2015

JOB#3684



APPROVED 10-6-2015 2015
Ch. R. M.
PIKE COUNTY ENGINEER

PASSED October 26th 2015
Susan D. Adams
DISTRICT SIX ENGINEER OF
LOCAL ROADS & STREETS

PASSED October 26 2015
Ron Duchambaud
DISTRICT SIX ENGINEER
OF CONSTRUCTION

Released For
Bid Based on
Limited Review October 26 2015

Boone J. Drabek
DEPUTY DIRECTOR OF HIGHWAYS,
REGION FOUR ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



Boone J. Drabek
Lic Exp 11/30/2015
SIGNATURE

ENGINEER'S SEAL

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
597	13-00092-00-BR	PIKE	23	1
FED. ROAD DIST. NO. 7		ILLINOIS	CONTRACT NO. 93666	

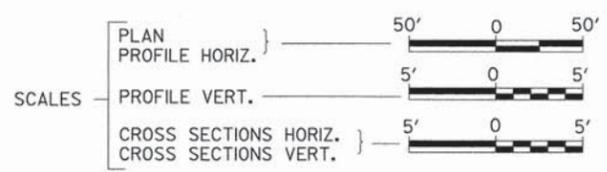
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PLANS FOR PROPOSED
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SECTION 13-00092-00-BR
F.A.S. 597 (CH 4) OVER BULL RUN CREEK
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INDEX OF SHEETS

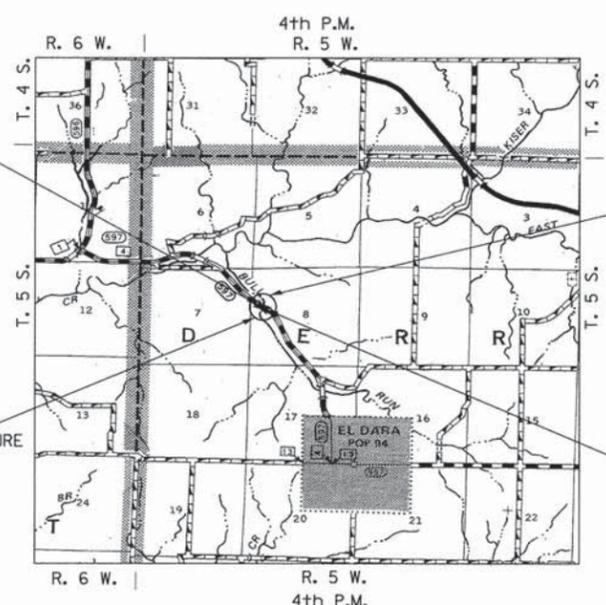
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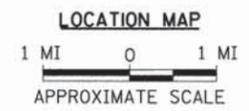
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

3684E001

2015

JOB#3684

GENERAL NOTES

PLAN QUANTITIES FOR TREE REMOVAL HAVE BEEN BASED ON ALL TREES WITHIN THE EXISTING RIGHT OF WAY. THIS QUANTITY MAY BE REVISED DURING CONSTRUCTION, AT THE DIRECTION OF THE ENGINEER, BY DELETING FROM THE TREE REMOVAL QUANTITIES, SUCH TREES THAT DO NOT INTERFERE WITH THE PROPOSED CONSTRUCTION.

ALL WASTE OR UNDESIRABLE MATERIAL AS IDENTIFIED BY THE ENGINEER SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY AT THE CONTRACTOR'S EXPENSE.

ALL EXISTING PRIVATELY OWNED UTILITIES REQUIRING ADJUSTMENT WILL BE MADE BY THE UTILITY COMPANY INVOLVED. WHERE NO PROVISIONS HAVE BEEN MADE FOR ADJUSTMENTS ON THE PLANS, NO ADDITIONAL COMPENSATION WILL BE ALLOWED DUE TO DELAYS OR INCONVENIENCES CAUSED BY THE SAID UTILITY ADJUSTMENTS.

THE PROFILE GRADE ELEVATIONS SHOWN ON THE PLAN AND PROFILE SHEETS AND IN THE STATION CROSS SECTIONS ARE TO THE TOP OF THE FINISHED SURFACE.

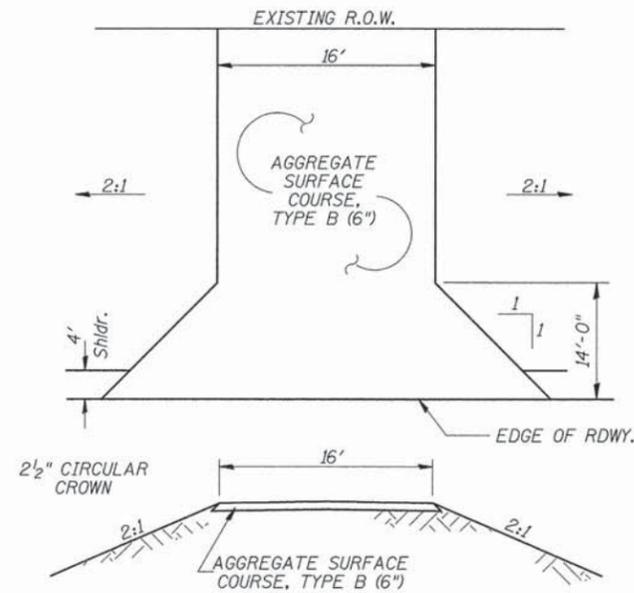
ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS SHALL BE INTERPRETED TO BE THE LATEST STANDARDS OF THE ILLINOIS DEPARTMENT OF TRANSPORTATION

THE LOCATION OF UNDERGROUND UTILITIES SHOWN ON THE PLANS REPRESENTS THE BEST KNOWLEDGE OF THE COUNTY. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY LOCATIONS OF UNDERGROUND INSTALLATIONS BEFORE STARTING CONSTRUCTION OPERATIONS. THE CONTRACTOR SHALL INDEMNIFY THE COUNTY, ITS OFFICERS AND EMPLOYEES AGAINST ALL CLAIMS DUE TO DAMAGE TO CORPORATE OR PRIVATE PROPERTY RESULTING FROM HIS CONSTRUCTION OPERATIONS AS DESCRIBED IN ARTICLES 107.20 AND 107.26 OF THE STANDARD SPECIFICATIONS.

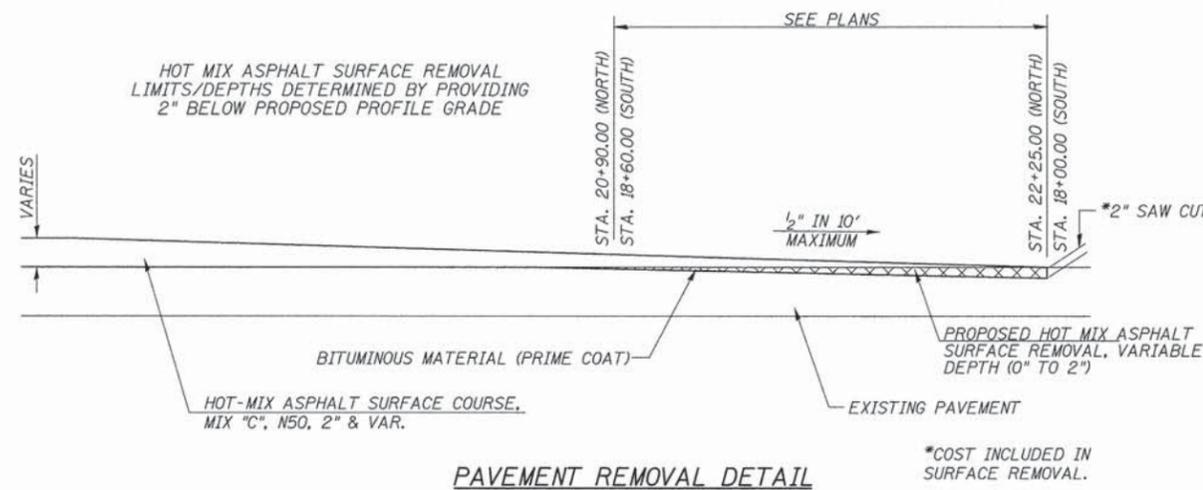
THE CONTRACTOR MAY BE REQUIRED TO CONDUCT SOME OF HIS GRADING AND TRENCHING OPERATIONS AROUND TRANSMISSION POLES AND UNDER TRANSMISSION LINES. THE ADDED COST OF SO DOING SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND PRESERVE PROPERTY MARKERS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT, HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

ALL ELEVATIONS SHOWN REFER TO U.S.G.S. MEAN SEA LEVEL DATUM.



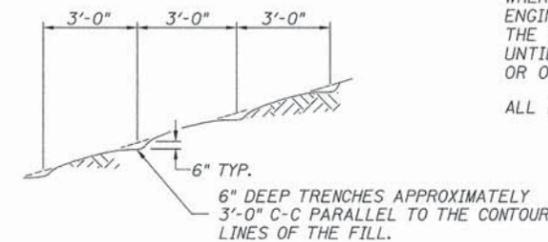
PROPOSED FIELD ENTRANCE
STA 21+84 RT



HOT-MIX ASPHALT MIXTURE REQUIREMENTS

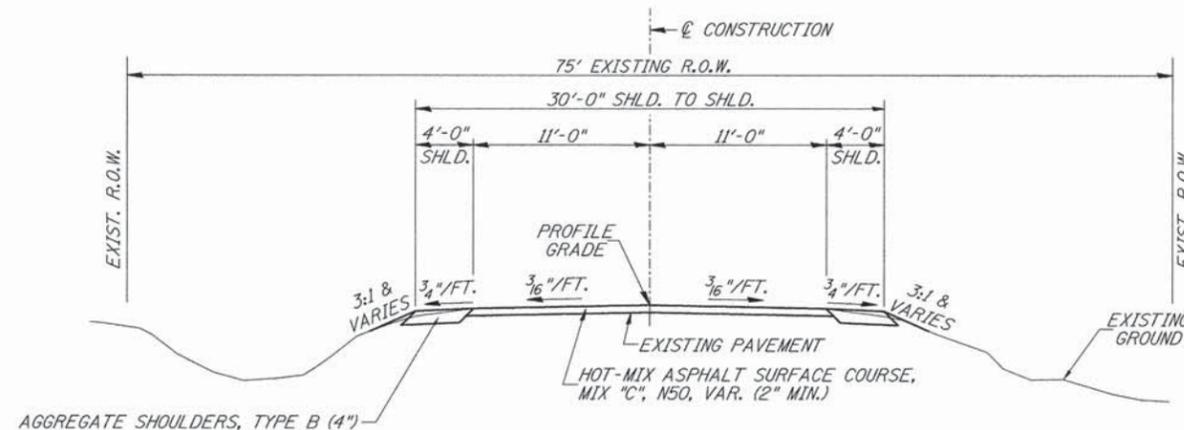
MIXTURE USE	SURFACE (MIX "C")
AC/PG	PG 64-22
DESIGN AIR VOIDS	4% @ N50
MIX COMPOSITION	IL-9.5

If RAP option is selected, the asphalt cement grade may need to be adjusted. This will be determined by the Engineer.



NOTE: ALL SLOPES 3:1 OR STEEPER AND GREATER THAN 5' IN HEIGHT SHALL BE CONTOUR PLOWED AS SHOWN IN DETAIL, COST SHALL BE INCLUDED WITH SEEDING, CLASS 2 (SPECIAL).

DETAIL OF CONTOUR PLOWING

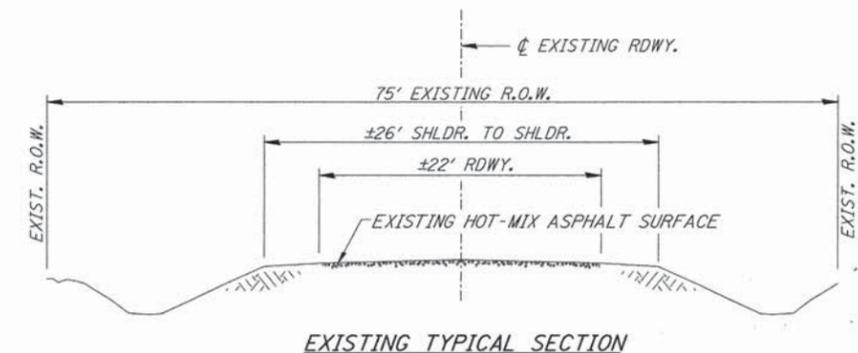


PROPOSED TYPICAL SECTION

STA. 18+00.00 TO STA. 19+34.50
STA. 20+79.50 TO STA. 22+25.00
EXCEPT TRANSITIONS

BRIDGE OMISSION
STA. 19+34.50 TO STA. 20+79.50

CONSTRUCT GUARDRAIL SHOULDER WIDENING IN ACCORDANCE WITH STD 630301



EXISTING TYPICAL SECTION

FILE NAME = V:\Bridge\3684 Pike\3684+001.dgn	USER NAME = JHutchison	DESIGNED -	REVISED -
		DRAWN -	REVISED -
	PLOT SCALE = 1.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 10/2/2015	DATE -	REVISED -

**PIKE COUNTY
COUNTY HIGHWAY 4 OVER
BULL RUN CREEK**

**GENERAL NOTES, TYPICAL SECTIONS,
PAVEMENT DESIGN INFORMATION, DETAILS**
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. 18+00.00 TO STA. 22+25.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
597	13-00092-00-BR	PIKE	23	2
FED. ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 93666	
FED. AID PROJECT NO. BR5-0597(105)				

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	99
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	30
20200100	EARTH EXCAVATION	CU YD	30
20300100	CHANNEL EXCAVATION	CU YD	1,030
① 20400800	FURNISHED EXCAVATION	CU YD	40
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	250
28000400	PERIMETER EROSION BARRIER	FOOT	765
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	22
① 40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	547
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	172
48101200	AGGREGATE SHOULDERS, TYPE B	TON	76
① 50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	85
50200300	COFFERDAM EXCAVATION	CU YD	40
① 50201101	COFFERDAM (TYPE 1) (LOCATION-1)	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	71.0
50300280	CONCRETE ENCASEMENT	CU YD	3.8
① 50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	1,918
① 50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ FT	2,662
① 50800105	REINFORCEMENT BARS	POUND	6,260
51201400	FURNISHING STEEL PILES HP10X42	FOOT	450
51201800	FURNISHING STEEL PILES HP14X73	FOOT	330
51202305	DRIVING PILES	FOOT	780
51203400	TEST PILE STEEL HP10X42	EACH	2
51203800	TEST PILE STEEL HP14X73	EACH	1
51500100	NAME PLATES	EACH	1
① 59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	17.4
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	2
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2
* ① 63200310	GUARDRAIL REMOVAL	FOOT	550
* 67100100	MOBILIZATION	L SUM	1
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	850
* ① 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
① X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.3
① X2810208	STONE RIPRAP, CLASS A4 (SPECIAL)	TON	585
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	415
① X7010216	TRAFFIC CONTROL AND PROTECTION (SPECIAL)	L SUM	1
* XX006199	STEEL BRIDGE RAIL, TYPE SM (SPECIAL)	FOOT	290

① SEE SPECIAL PROVISIONS
* SPECIALTY ITEMS

CONSTRUCTION CODE TYPE: 0011
BRIDGE CODE TYPE: X080

GUARDRAIL REMOVAL

STATION TO STATION	SIDE	FOOT
16+90 - 19+40	LEFT	250
18+00 - 19+50	RIGHT	150
20+50 - 21+25	LEFT	75
20+60 - 21+35	RIGHT	75
TOTAL		550

PAINT PAVEMENT MARKING - LINE 4"

STATION TO STATION	SIDE	DESCRIPTION	FOOT
18+00 - 22+25	℄	DOUBLE YELLOW	850
TOTAL			850

TREE REMOVAL

STATION	OFFSET	SIDE	6 TO 15 UNITS	OVER 15 UNITS
18+49	35'	RIGHT	13	
18+56	32'	RIGHT	13	
18+60	31'	RIGHT	13	
18+94	36'	RIGHT	13	
19+02	36'	RIGHT	13	
19+04	31'	RIGHT	10	
20+91	34'	RIGHT		30
21+15	34'	RIGHT	8	
21+21	39'	RIGHT	8	
21+23	39'	RIGHT	8	
TOTAL			99	30

PERIMETER EROSION BARRIER

STATION TO STATION	SIDE	FOOT
16+87 - 19+35	LEFT	265
18+00 - 19+35	RIGHT	150
20+80 - 22+25	LEFT	165
20+80 - 22+25	RIGHT	185
TOTAL		765

AGGREGATE SHOULDERS, TYPE B

STATION TO STATION	SIDE	WIDTH	LENGTH	TON
18+00.00 - 18+50.00	LEFT	3.00' AVG.	50.00'	4
18+00.00 - 18+30.75	RIGHT	5.83' AVG.	30.75'	4
18+30.75 - 18+65.75	RIGHT	9.00'	35.00'	7
18+50.00 - 19+19.50	LEFT	4.00'	69.50'	7
18+65.75 - 18+67.25	RIGHT	8.88' AVG.	1.50'	1
18+67.25 - 19+18.00	RIGHT	8.75'	50.75'	10
19+18.00 - 19+34.50	RIGHT	7.38' AVG.	16.50'	3
19+19.50 - 19+34.50	LEFT	4.50' AVG.	15.00'	2
20+79.50 - 20+94.50	RIGHT	4.50' AVG.	15.00'	2
20+79.50 - 20+96.00	LEFT	7.38' AVG.	16.50'	3
20+94.50 - 21+64.00	RIGHT	4.00'	69.50'	7
20+96.00 - 21+46.75	LEFT	8.75'	50.75'	10
21+46.75 - 21+48.25	LEFT	8.88' AVG.	1.50'	1
21+48.25 - 21+83.25	LEFT	9.00'	35.00'	7
22+04.00 - 22+25.00	RIGHT	3.62' AVG.	21.00'	2
21+83.25 - 22+25.00	LEFT	5.90' AVG.	41.75'	6
TOTAL				76

HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH

STATION TO STATION	WIDTH	LENGTH	SQ YD
18+00.00 - 18+60.00	VARIES	60.00'	145
20+90.00 - 22+25.00	VARIES	135.00'	270
TOTAL			415

EARTHWORK SUMMARY

STATION TO STATION	EARTH EXCAVATION CU YD	CHANNEL EXCAVATION CU YD	STRUCTURE EXCAVATION CU YD	COFFERDAM EXCAVATION CU YD	FILL CU YD	WASTE (SHORTAGE) CU YD
RDWY 18+00.00 - 19+34.50	12				40	(31)
RDWY 20+79.50 - 22+25.00	19				23	(9)
CHANNEL		1,030				
STRUCTURE			85			
COFFERDAM				40		
TOTAL	31	1,030	85	40	63	(40)
USE	30	1,030	85	40	-	(40)

(@ 25% SHRINKAGE)

PAVEMENT SCHEDULE

STATION TO STATION	WIDTH	THICKNESS	LENGTH	PRIME COAT GALLON 0.45 LBS/SQ YD	HOT-MIX ASPHALT SURF CSE, MIX "C", N50 TON 112#/SQ YD/IN
18+00.00 - 19+34.50	22.54' AVG.	—	134.50'	152	
20+79.50 - 22+25.00	22.38' AVG.	—	145.50'	163	
BRIDGE DECK	32.00'	0.18' AVG.	145.00'	232	65
18+00.00 - 19+34.50	22.27' AVG.	0.27' AVG.	134.50'		61
20+79.50 - 22+25.00	22.19' AVG.	0.19' AVG.	145.50'		46
TOTAL				547	172

TRAFFIC BARRIER TERMINAL, TYPE 6A

SIDE	STATION TO STATION	EACH
RIGHT	18+90.75 - 19+34.50	1
LEFT	20+79.50 - 21+23.25	1
TOTAL		2

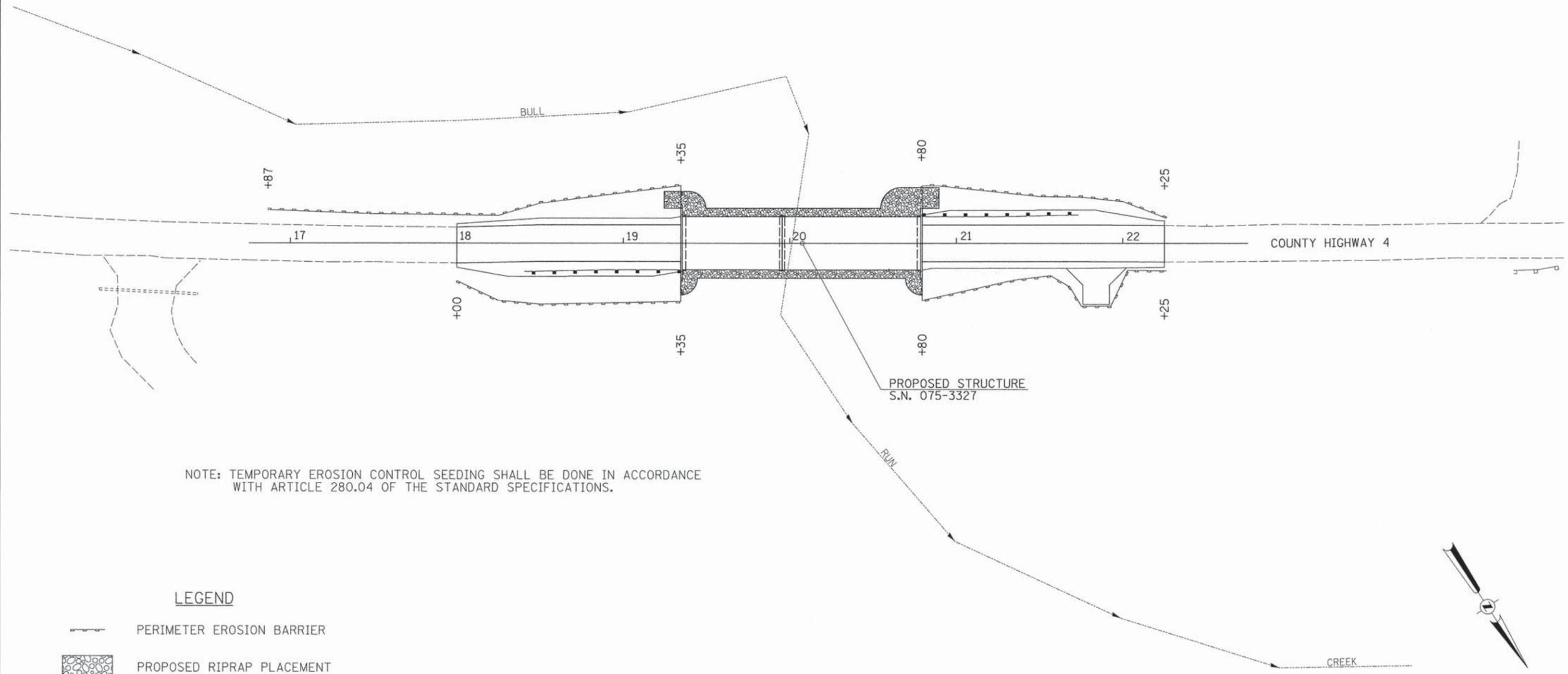
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT

SIDE	STATION TO STATION	EACH
RIGHT	18+40.75 - 18+90.75	1
LEFT	21+23.25 - 21+73.25	1
TOTAL		2

AGGREGATE SURFACE COURSE, TYPE B

STATION TO STATION	THICKNESS	WIDTH	LENGTH	TON
ENTRANCE - 21+84 RT	0.50'	16' & VAR.	25.6'	22
TOTAL				22

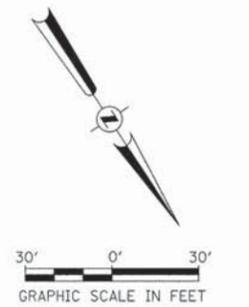
T 5 S, R 5 W, 4TH PM
SECTION 8



NOTE: TEMPORARY EROSION CONTROL SEEDING SHALL BE DONE IN ACCORDANCE WITH ARTICLE 280.04 OF THE STANDARD SPECIFICATIONS.

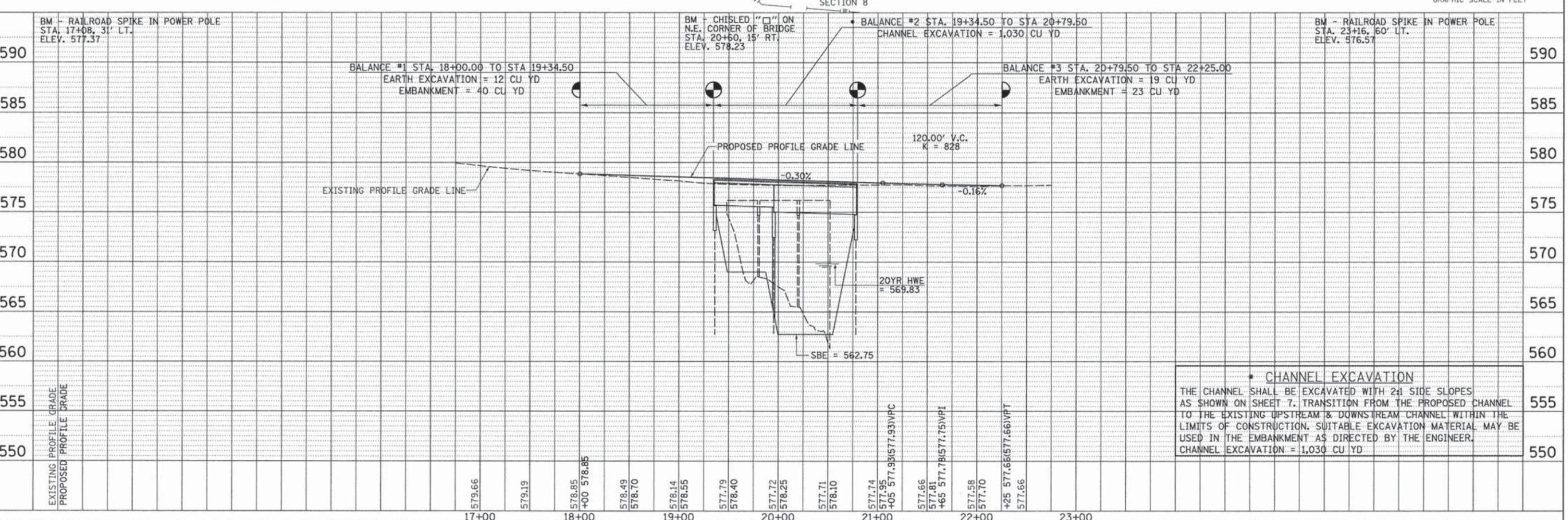
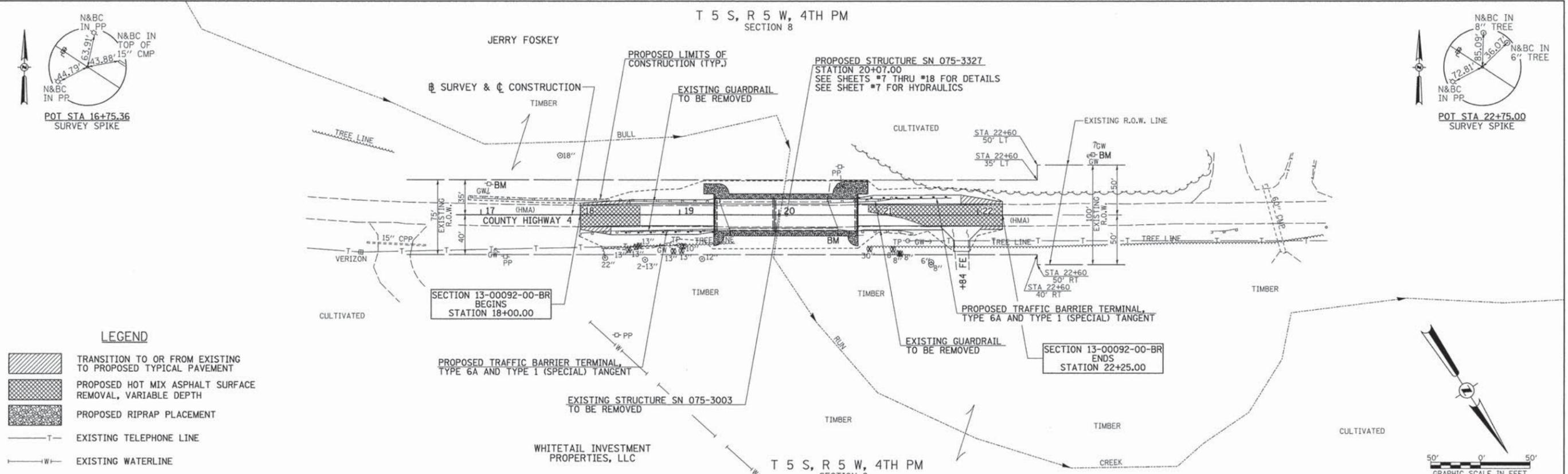
LEGEND

-  PERIMETER EROSION BARRIER
-  PROPOSED RIPRAP PLACEMENT



T 5 S, R 5 W, 4TH PM
SECTION 8

FILE NAME = V:\Bridge\3684 Pike\36845001.dgn	USER NAME = JHutchison	DESIGNED -	REVISED -	PIKE COUNTY COUNTY HIGHWAY 4 OVER BULL RUN CREEK	EROSION CONTROL PLAN			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 30,0000' / 1IN.	DRAWN -	REVISED -					597	13-00092-00-BR	PIKE	23	5
	PLOT DATE = 10/2/2015	CHECKED -	REVISED -		SCALE: 1" = 30' SHEET NO. 1 OF 1 SHEETS STA. 18+00.00 TO STA. 22+25.00			CONTRACT NO. 93666		FED. ROAD DIST. NO. 7 [ILLINOIS] FED. AID PROJECT BR5-0597(105)		
		DATE -	REVISED -									

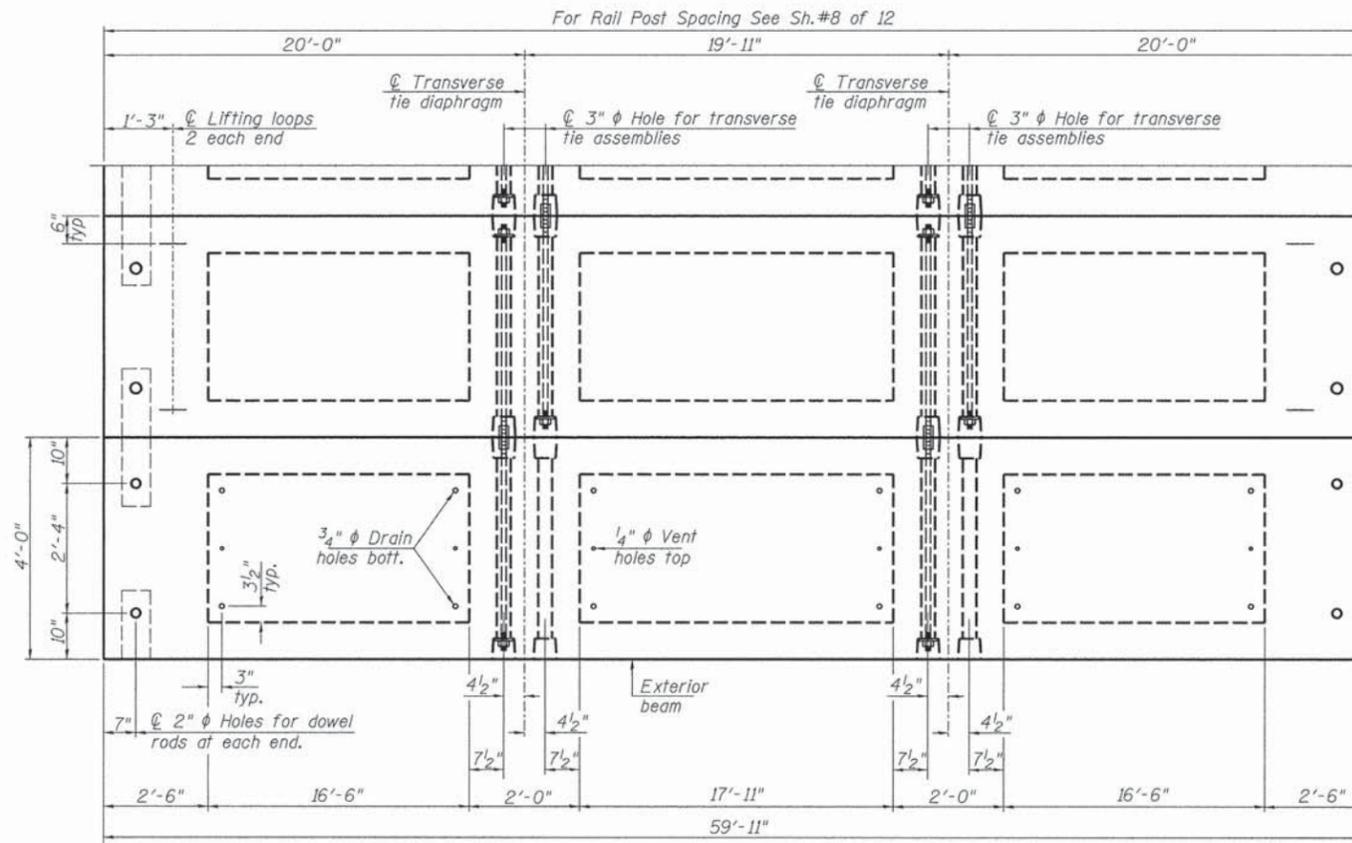


*** CHANNEL EXCAVATION**
 THE CHANNEL SHALL BE EXCAVATED WITH 2:1 SIDE SLOPES AS SHOWN ON SHEET 7. TRANSITION FROM THE PROPOSED CHANNEL TO THE EXISTING UPSTREAM & DOWNSTREAM CHANNEL WITHIN THE LIMITS OF CONSTRUCTION. SUITABLE EXCAVATION MATERIAL MAY BE USED IN THE EMBANKMENT AS DIRECTED BY THE ENGINEER. CHANNEL EXCAVATION = 1,030 CU YD

DATE	
BY	
REVISIONS	
PLANNING	
DESIGN	
CONSTRUCTION	

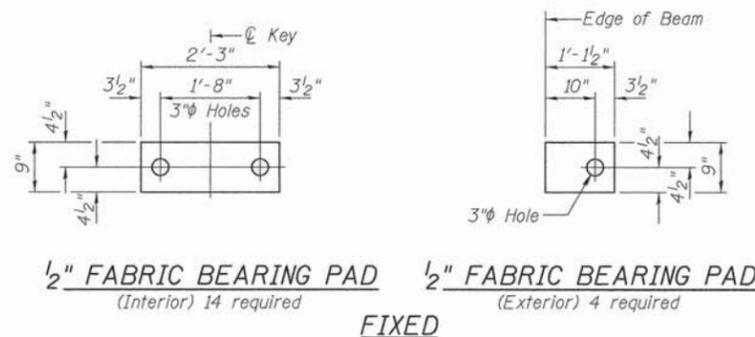
DATE	
BY	
REVISIONS	
PLANNING	
DESIGN	
CONSTRUCTION	

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PLOT SCALE = 50.0000' / 1" =	CHECKED -	REVISED -	SCALE: 1"=50'			SHEET NO. 1 OF 1 SHEETS	STA. 18+00.00 TO STA. 22+25.00	FED. ROAD DIST. NO. 7 [ILLINOIS]	FED. AID PROJECT BRS-0597109	
PLOT DATE = 10/2/2015	DATE -	REVISED -								

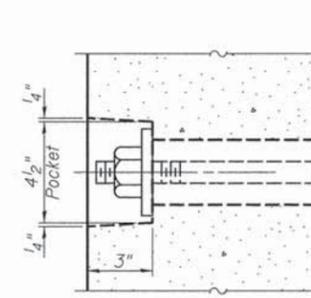


PLAN VIEW

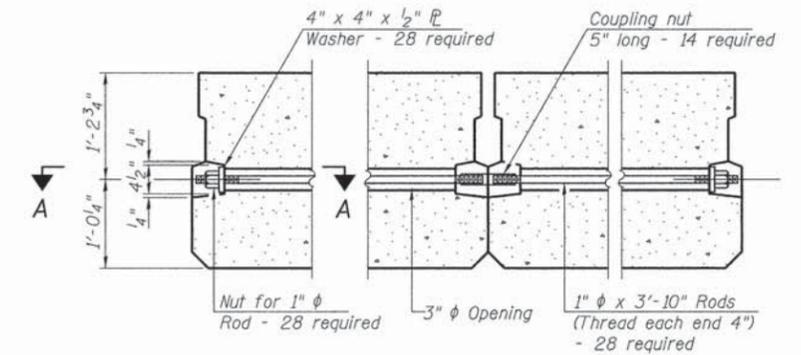
Note: Connect beams in pairs with the transverse tie configuration shown.



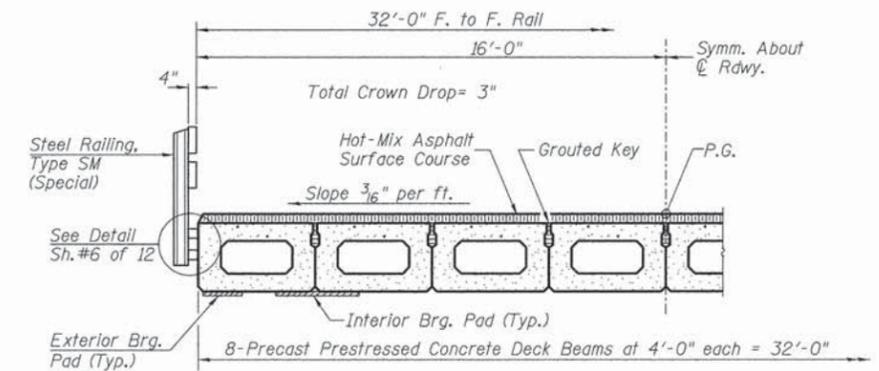
1/2" FABRIC BEARING PAD (Interior) 14 required
 1/2" FABRIC BEARING PAD (Exterior) 4 required
FIXED



SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY



HALF CROSS SECTION

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
① Precast Prestressed Concrete Deck Beams (27" Depth)	SQ FT	1.918

① See Special Provisions

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" diameter rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.

Reinforcement bars shall conform to ASTM A 706, Grade 60.

Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

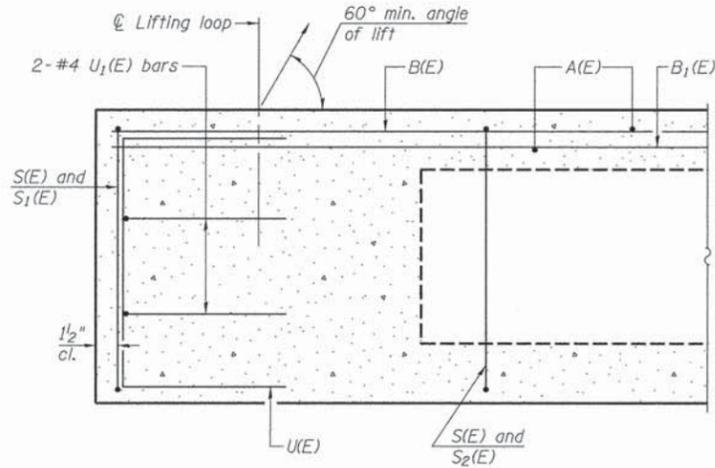
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

SUPERSTRUCTURE - SPAN 1
 PIKE COUNTY
 SECTION 13-00092-00-BR
 C.H. 4 OVER BULL RUN CREEK

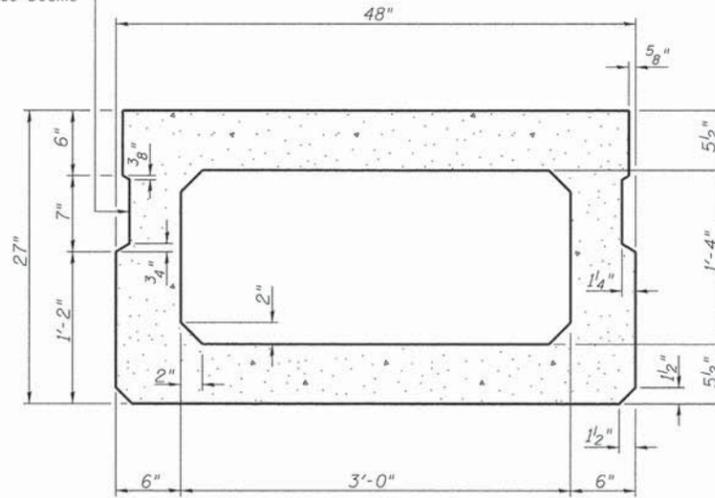
SHEET NO. 2	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12 SHEETS	597	13-00092-00-BR	PIKE	23	8
S.N. 075-3327			CONTRACT NO. 93666		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0597(105)		

**Rail post anchor devices (Sheet 6 of 12)
to be cast into exterior face of outside beams.

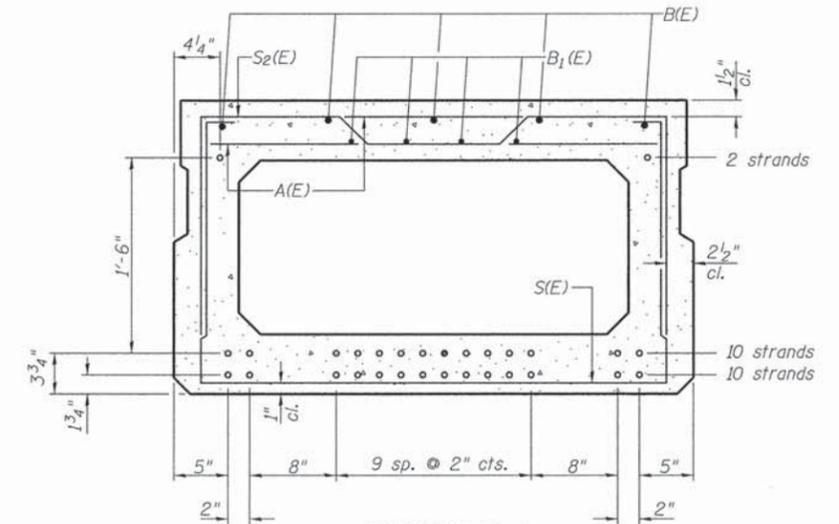
**Omit key on exterior
face of outside beams



SECTION A-A



SECTION B-B
(Showing dimensions)



SECTION B-B

22-1/2"φ Strands Each Strand Stressed to 30,900 Lbs.
10-Strands 1 3/4" up, 10-Strands 3 3/4" up, 2-Strands 1'-9 3/4" up

Note: Place the number of strands specified in each row
symmetrically about the centerline of beam in the
permissible strand locations shown.

MIN. BAR LAP

#4 bar = 1'-11"
#5 bar = 2'-6"

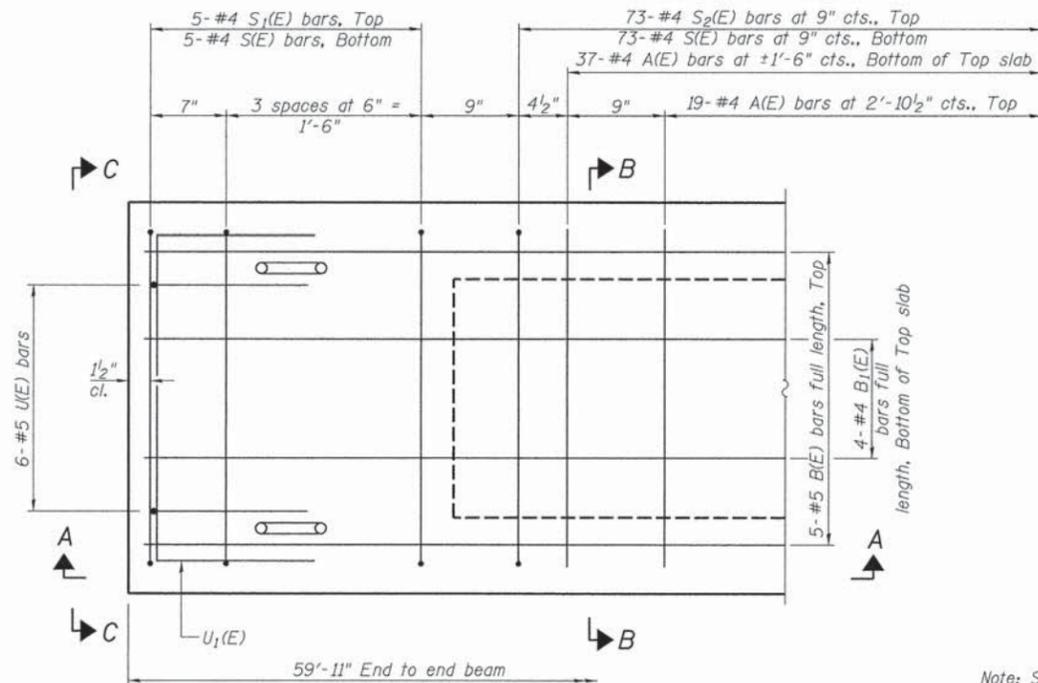
BAR LIST-ONE BEAM ONLY

(For information only)

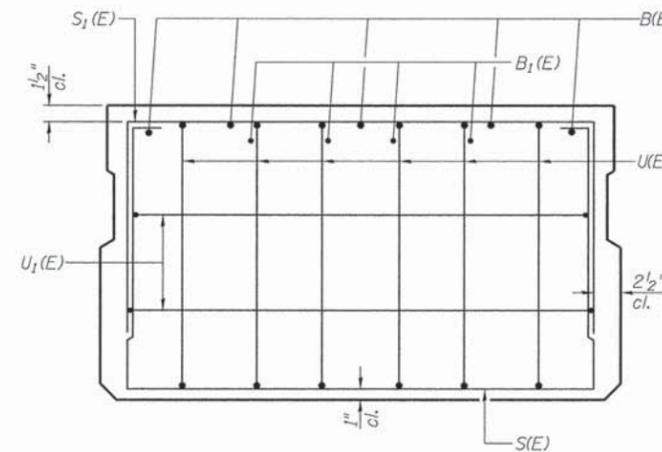
BAR	NO.	SIZE	LENGTH	SHAPE
A(E)	56	#4	3'-7"	—
B(E)	5	#5	*59'-8"	—
B1(E)	4	#4	*59'-8"	—
S(E)	83	#4	8'-5"	□
S1(E)	10	#4	6'-11"	□
S2(E)	73	#4	7'-2"	□
U(E)	12	#5	4'-6"	□
U1(E)	4	#4	6'-0"	□

Note: See Sheet 2 of 12 for additional details
and Bill of Material.

* Total Length, Lap
as necessary

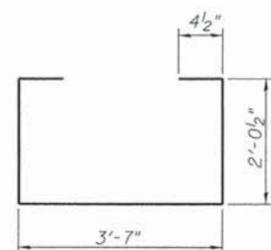


PLAN VIEW

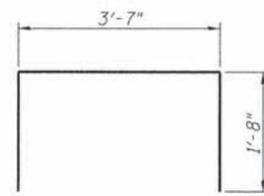


VIEW C-C

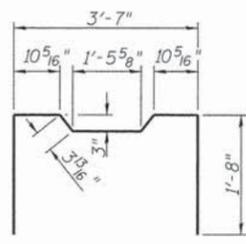
Note: Spacing of S(E) and S2(E) bars may be adjusted
up to 4" in the immediate area of the transverse
tie diaphragms to miss the block outs for the
transverse ties.



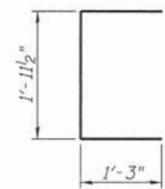
BAR S(E)



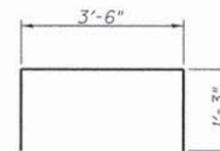
BAR S1(E)



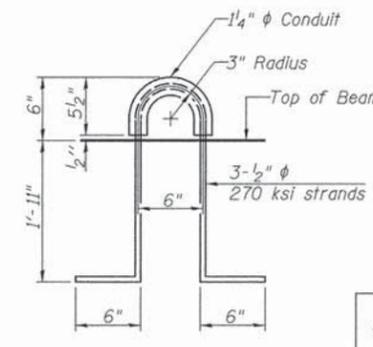
BAR S2(E)



BAR U(E)



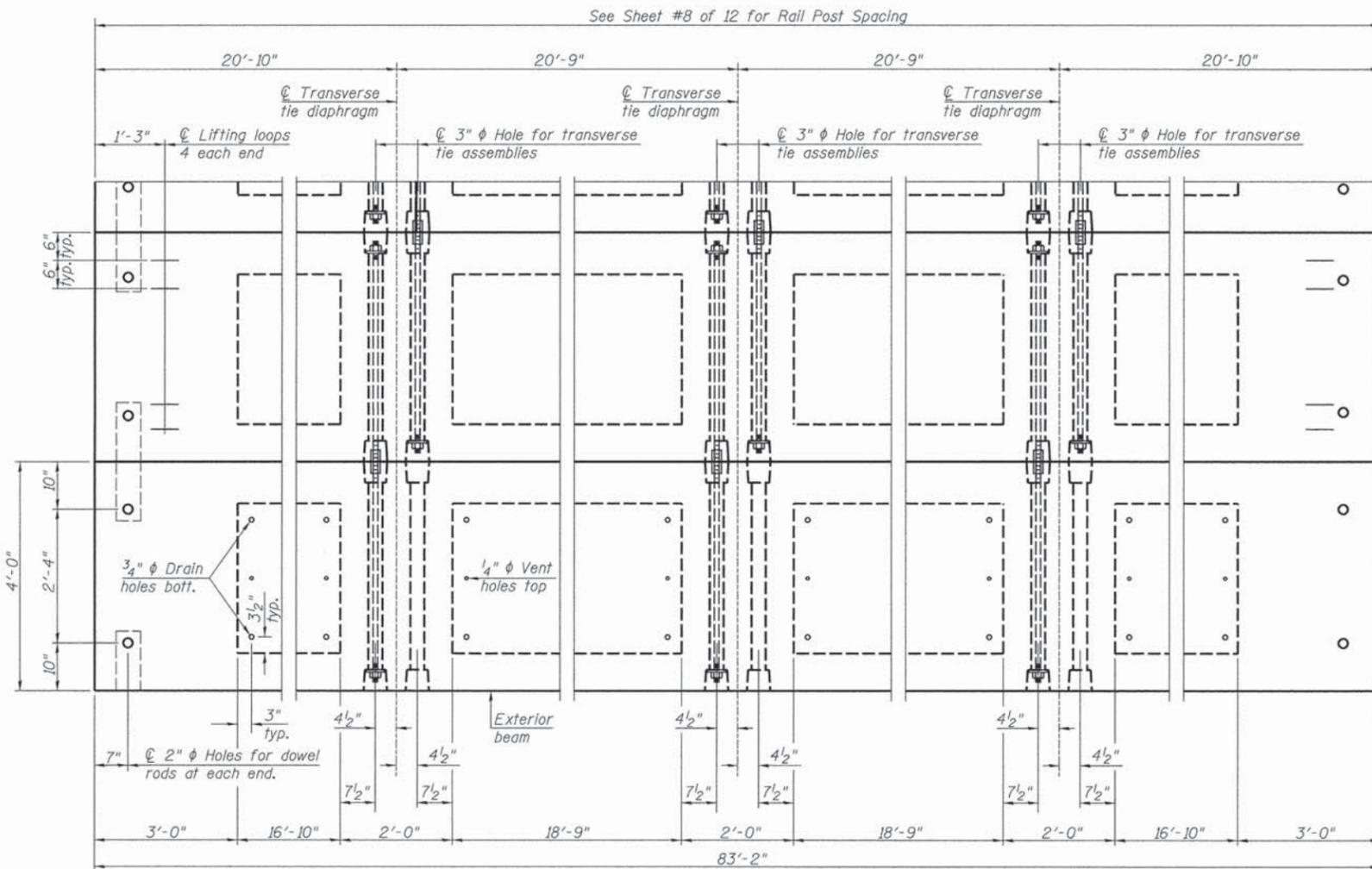
BAR U1(E)



LIFTING LOOP DETAIL

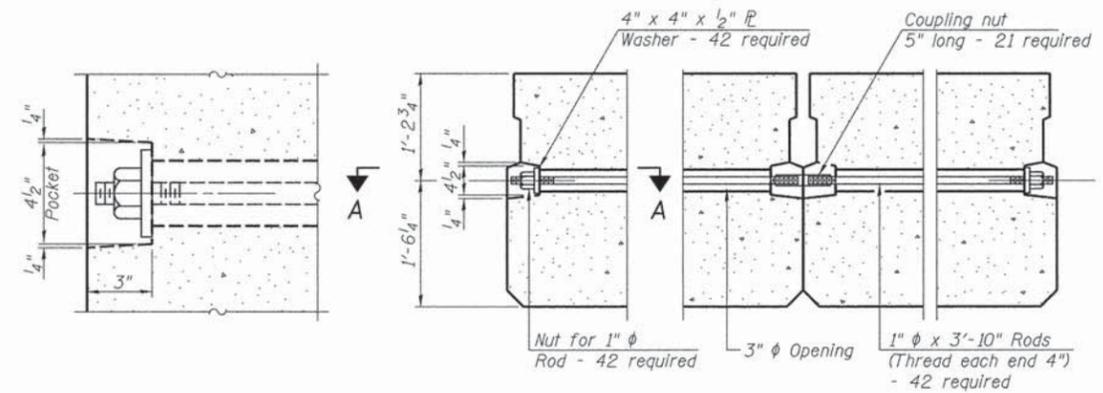
**SUPERSTRUCTURE DETAILS - SPAN 1
PIKE COUNTY
SECTION 13-00092-00-BR
C.H. 4 OVER BULL RUN CREEK**

SHEET NO. 3 12 SHEETS	F.A.S. RTE. 597	SECTION 13-00092-00-BR	COUNTY PIKE	TOTAL SHEETS 23	SHEET NO. 9
	S.N. 075-3327		CONTRACT NO. 93666		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-0597(105)			



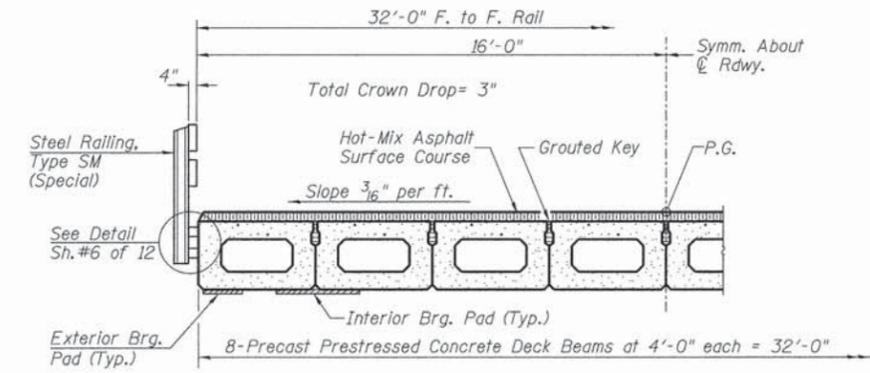
Note: Connect beams in pairs with the transverse tie configuration shown.

PLAN VIEW



SECTION A-A

TYPICAL TRANSVERSE TIE ASSEMBLY



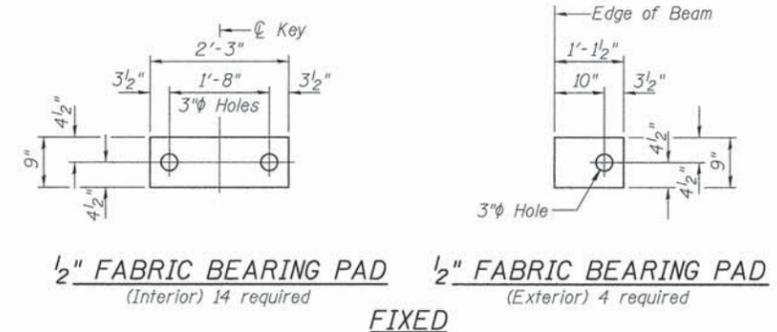
HALF CROSS SECTION

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
① Precast Prestressed Concrete Deck Beams (33" Depth)	SQ FT	2,662

① See Special Provisions

SUPERSTRUCTURE - SPAN 2
PIKE COUNTY
SECTION 13-00092-00-BR
C.H. 4 OVER BULL RUN CREEK

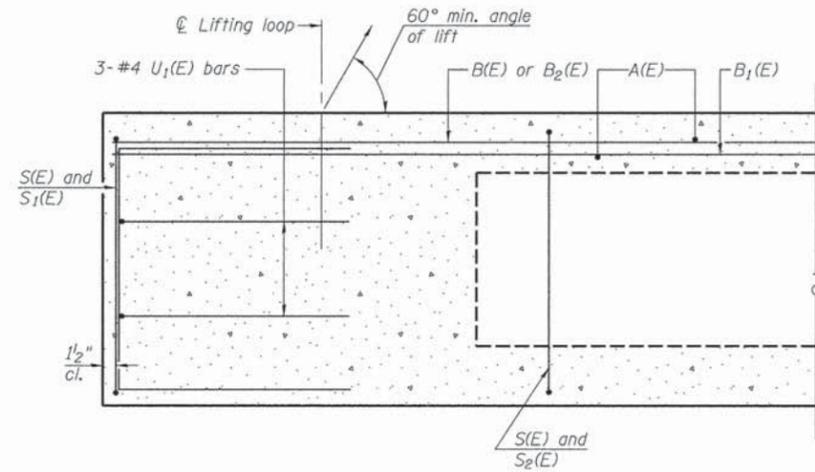


1/2" FABRIC BEARING PAD (Interior) 14 required
1/2" FABRIC BEARING PAD (Exterior) 4 required
FIXED

NOTES

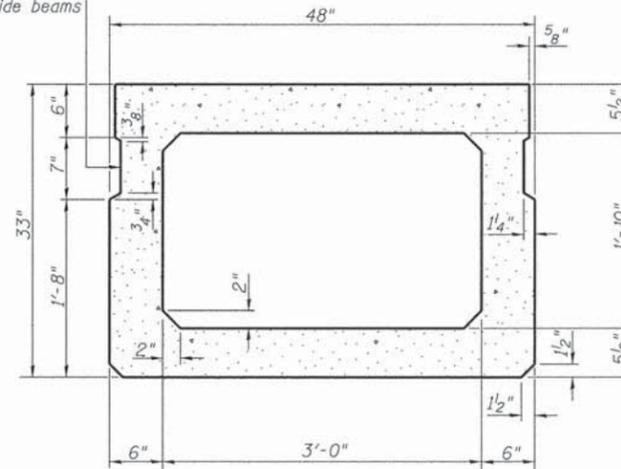
Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place.
Reinforcement bars shall conform to ASTM A 706, Grade 60.
Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.
A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.
Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.
Compressive strength of prestressed concrete, f'c, shall be 6000 psi.
Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

SHEET NO.	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
4	597	13-00092-00-BR	PIKE	23	10
12 SHEETS	S.N. 075-3327		CONTRACT NO. 93666		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0597(105)		

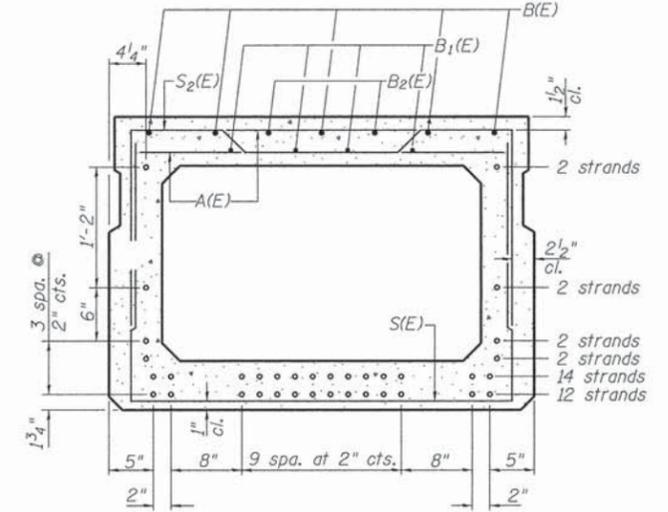


SECTION A-A

**Omit key on exterior face of outside beams



SECTION B-B
(Showing dimensions)

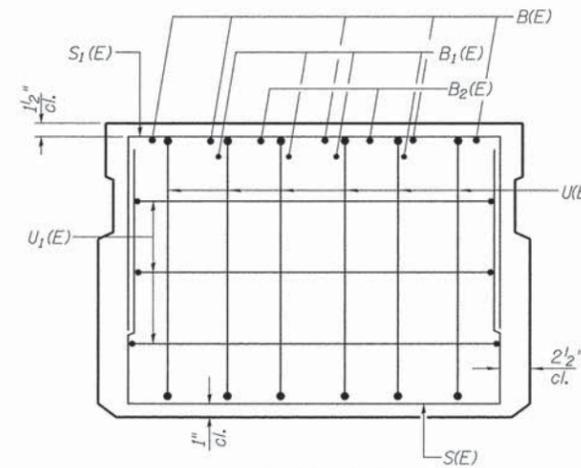


SECTION B-B

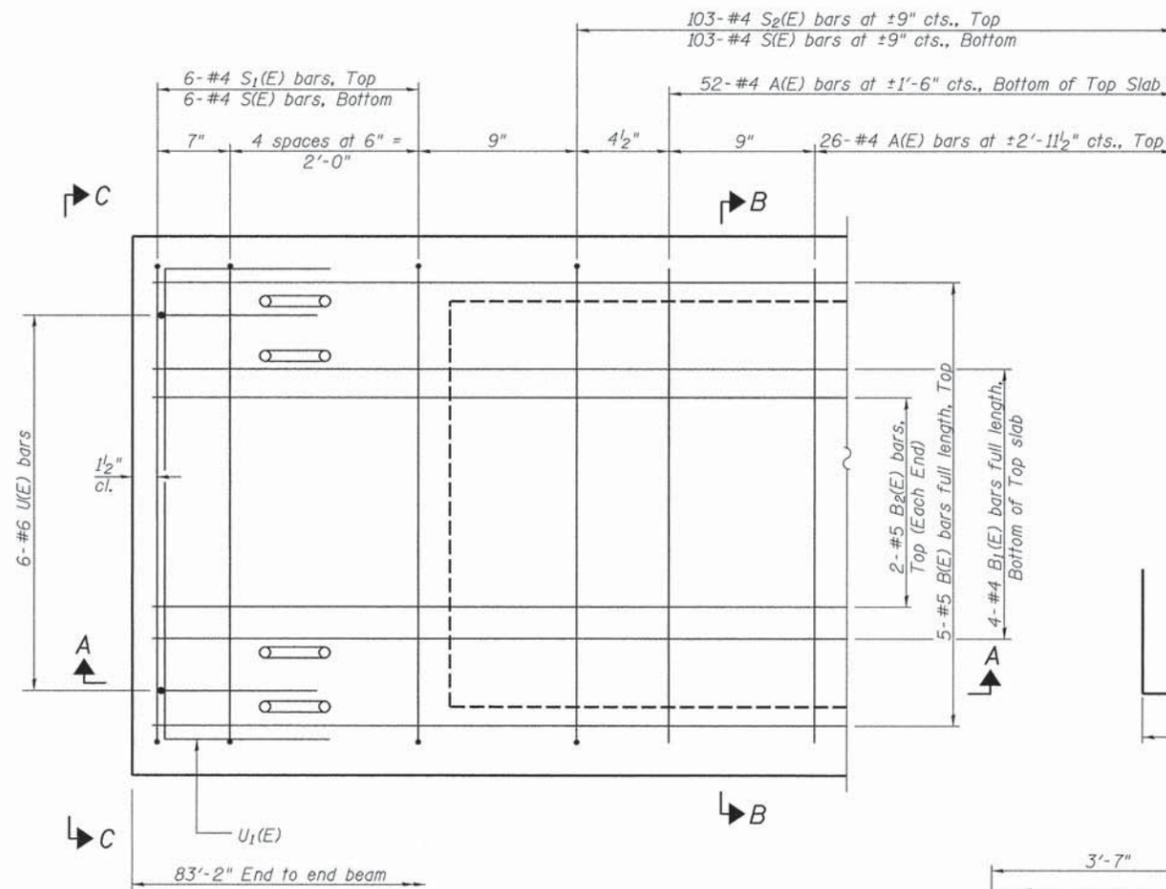
34-1/2" ϕ Strands Each Strand Stressed to 30,900 Lbs.
12-Strands 1 3/4" up, 14-Strands 3 3/4" up, 2-Strands 5 3/4" up
2-Strands 7 3/4" up, 2-Strands 13 3/4" up, 2-Strands 27 3/4" up

Note: Place the number of strands specified in each row symmetrically about the centerline of beam in the permissible strand locations shown.

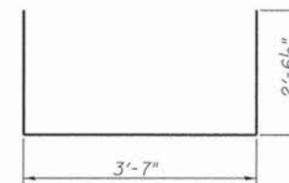
**Rail post anchor devices (Sheet 6 of 12) to be cast into exterior face of outside beams.



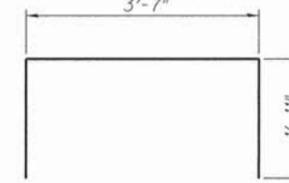
VIEW C-C



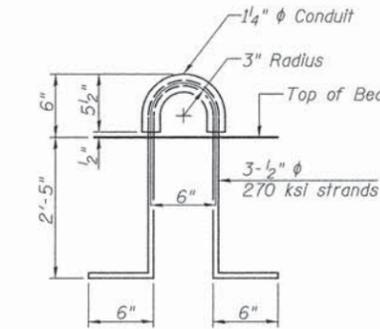
PLAN VIEW



BAR S(E)



BAR S1(E)



LIFTING LOOP DETAIL

MIN. BAR LAP

#4 bar = 1'-11"
#5 bar = 2'-6"

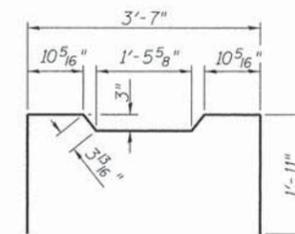
BAR LIST-ONE BEAM ONLY

(For Information Only)

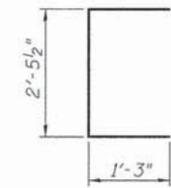
BAR NO.	SIZE	LENGTH	SHAPE
A(E)	#4	3'-7"	—
B(E)	#5	*82'-11"	—
B1(E)	#4	*82'-11"	—
B2(E)	#5	10'-0"	—
S(E)	#4	8'-8"	U
S1(E)	#4	7'-5"	U
S2(E)	#4	7'-8"	U
U(E)	#6	5'-0"	U
U1(E)	#4	6'-0"	U

Note: See Sheet 4 of 12 for additional details and Bill of Material.

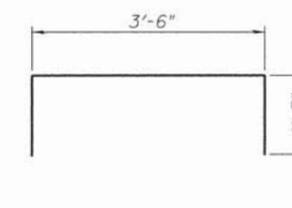
* Total Length, Lap as necessary



BAR S2(E)



BAR U(E)

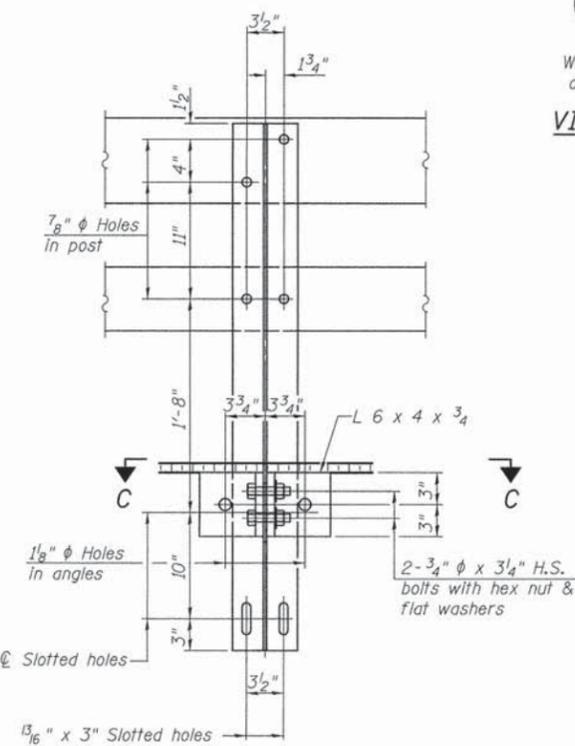
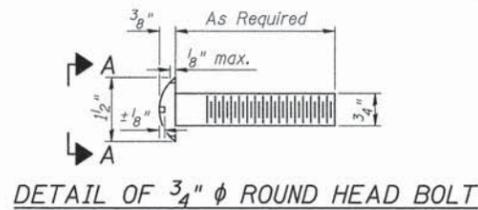


BAR U1(E)

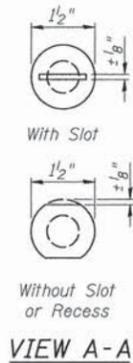
Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

SUPERSTRUCTURE DETAILS - SPAN 2
PIKE COUNTY
SECTION 13-00092-00-BR
C.H. 4 OVER BULL RUN CREEK

SHEET NO. 5 12 SHEETS	F.A.S. RTE. 597	SECTION 13-00092-00-BR	COUNTY PIKE	TOTAL SHEETS 23	SHEET NO. 11
	S.N. 075-3327		CONTRACT NO. 93666		
FED. ROAD DIST. NO. 7		ILLINOIS	FED. AID PROJECT BRS-0597(105)		



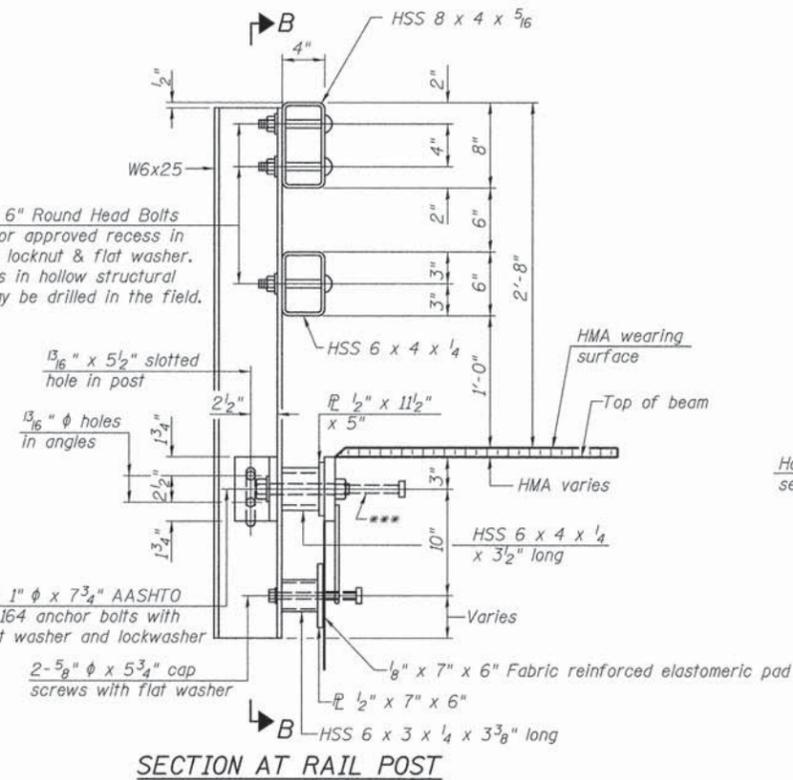
SECTION B-B



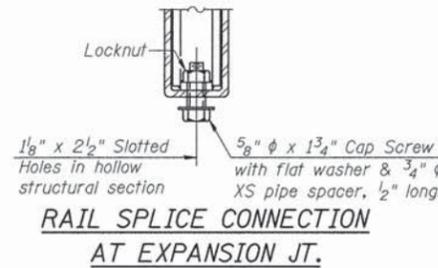
VIEW A-A

4- 3/4" ϕ x 6" Round Head Bolts (With slot or approved recess in head) with locknut & flat washer. 7/8" ϕ holes in hollow structural section may be drilled in the field.

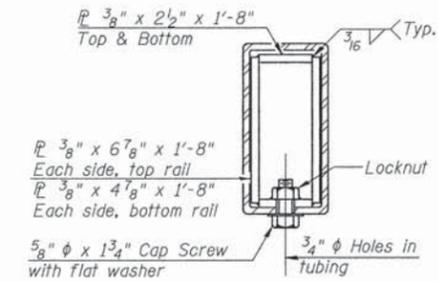
FOR RAIL POST SPACING SEE SH.#8 OF 12



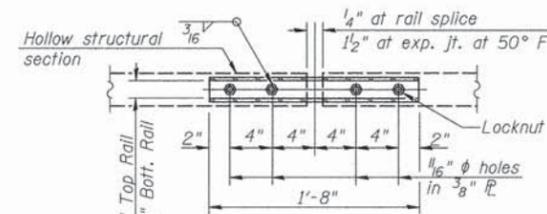
SECTION AT RAIL POST



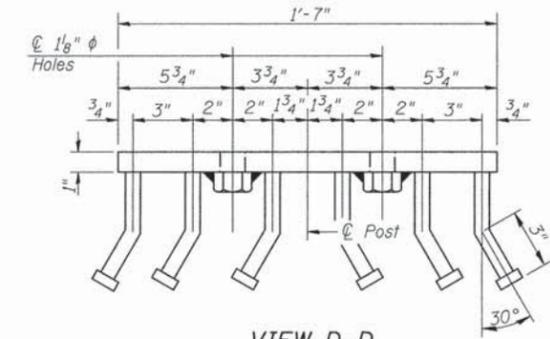
RAIL SPLICE CONNECTION AT EXPANSION JT.



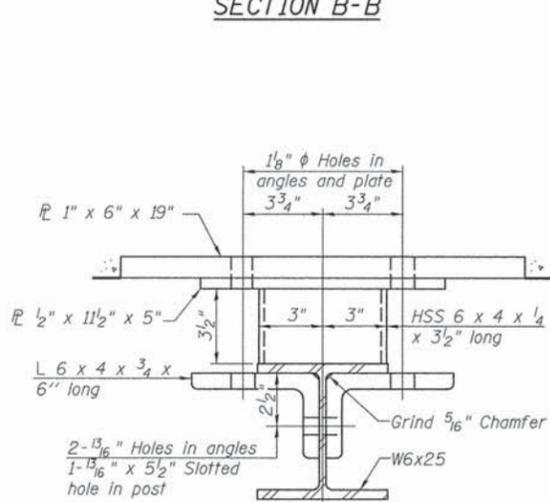
SECTION AT RAIL SPLICE



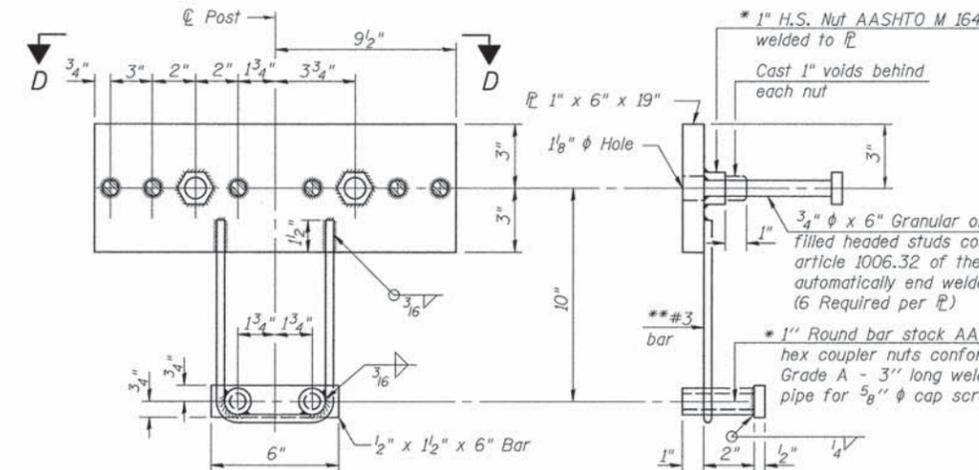
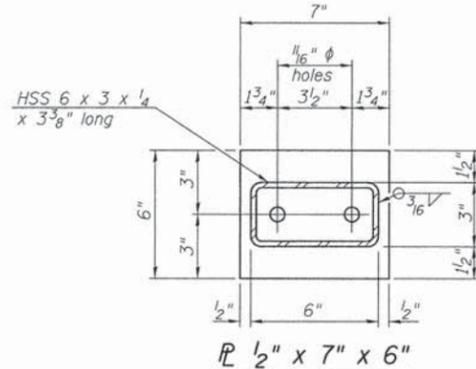
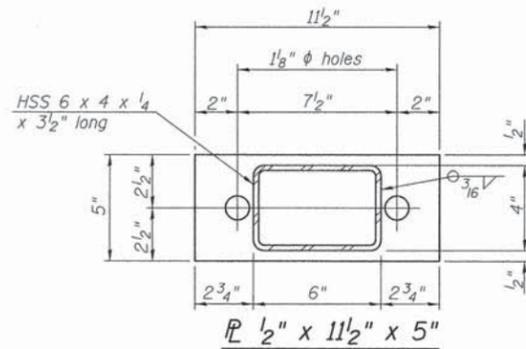
PLAN-BOTT. SPLICE TYPICAL



VIEW D-D



SECTION C-C



ANCHOR DEVICE

*Threaded areas shall be plugged or blocked off during casting of beam. Galvanized after fabrication.

**Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".

Notes:
 All field drilled holes shall be coated with an approved zinc rich paint before erection.
 For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Bridge Rail, Type SM (Special).
 All steel rail members shall be galvanized according to Article 509.05 of the Standard Specifications.
 *** The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.

BILL OF MATERIAL

ITEM	UNIT	QUANTITY
Steel Bridge Rail, Type SM (Special)	FOOT	290

STEEL BRIDGE RAIL, TYPE SM (SPECIAL)

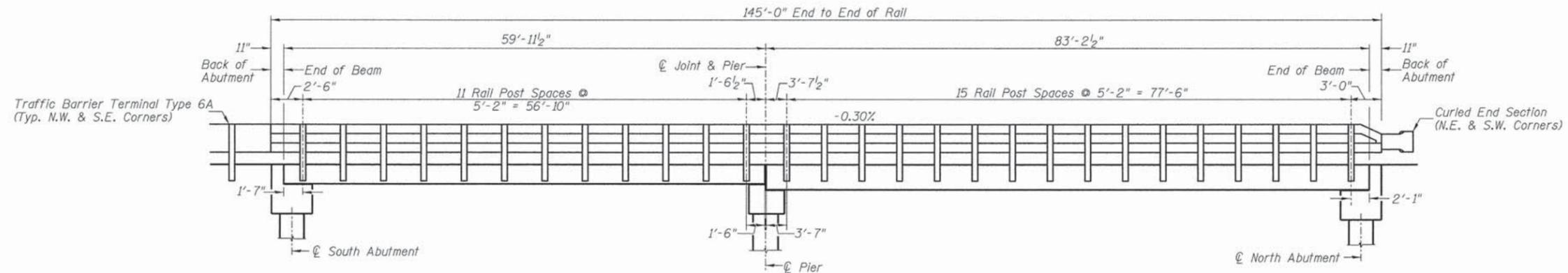
PIKE COUNTY

SECTION 13-00092-00-BR

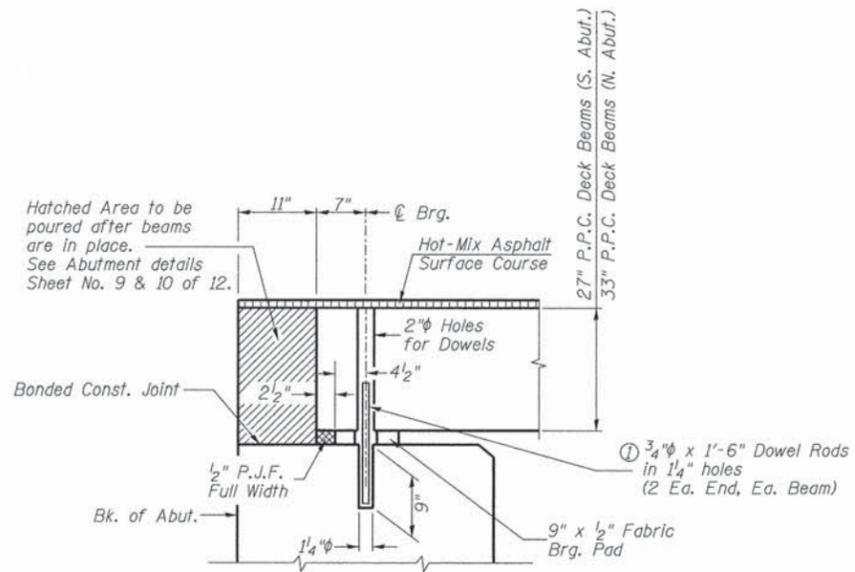
C.H. 4 OVER BULL RUN CREEK

SHEET NO. 6	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12 SHEETS	597	13-00092-00-BR	PIKE	23	12
S.N. 075-3327			CONTRACT NO. 93666		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0597(105)		

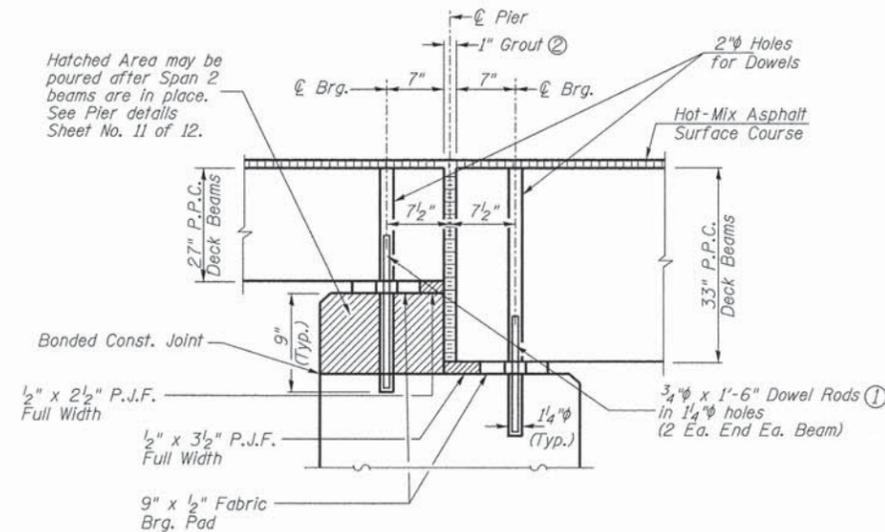
(Sheet 1 of 2)



RAIL POST SPACING



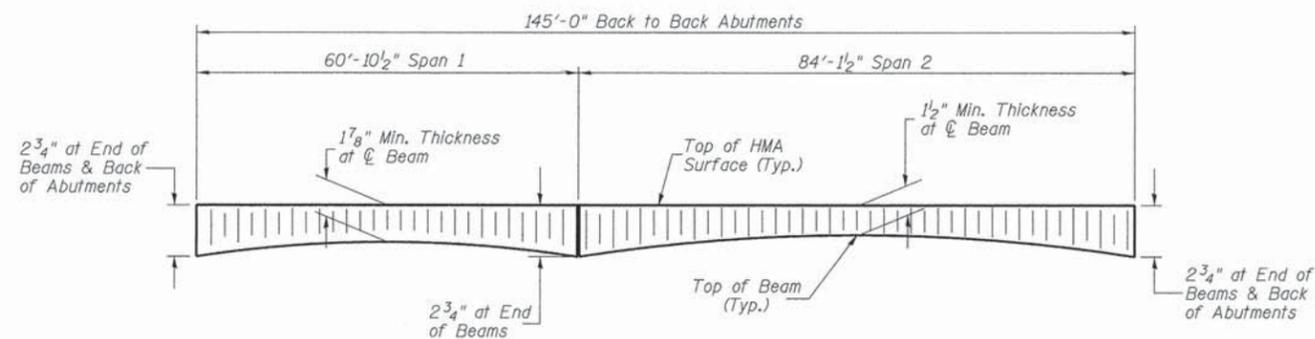
SECTION THRU ABUTMENTS



SECTION THRU PIER

① Dowel Rods to be grouted after beams are in place and allowed to cure (Min. 24 hr.) prior to grouting the shear keys.

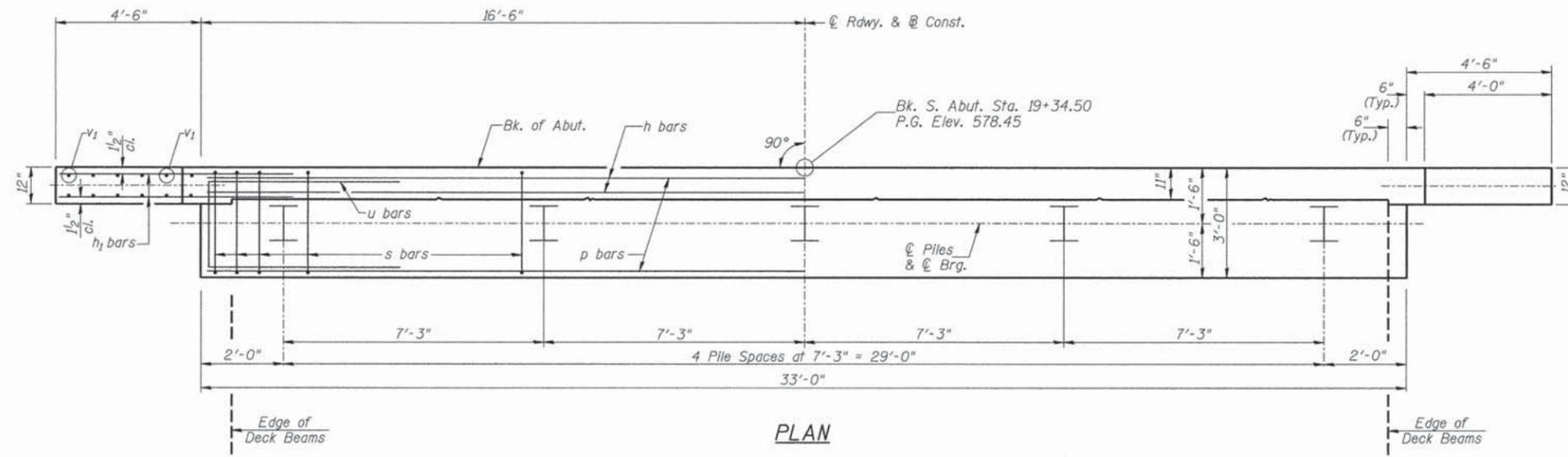
② 1" Joint shall be packed with nonshrink grout in accordance with Standard Specifications. 1" Dimension may vary plus or minus to accommodate tolerance in beam lengths.



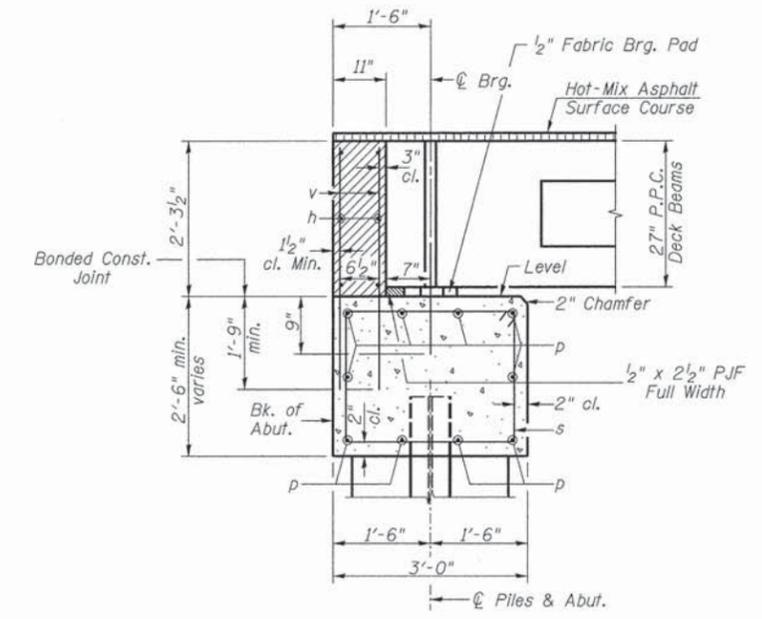
HOT-MIX ASPHALT SURFACE PROFILE

**RAIL POST SPACING AND
SUPERSTRUCTURE DETAILS
PIKE COUNTY
SECTION 13-00092-00-BR
C.H. 4 OVER BULL RUN CREEK**

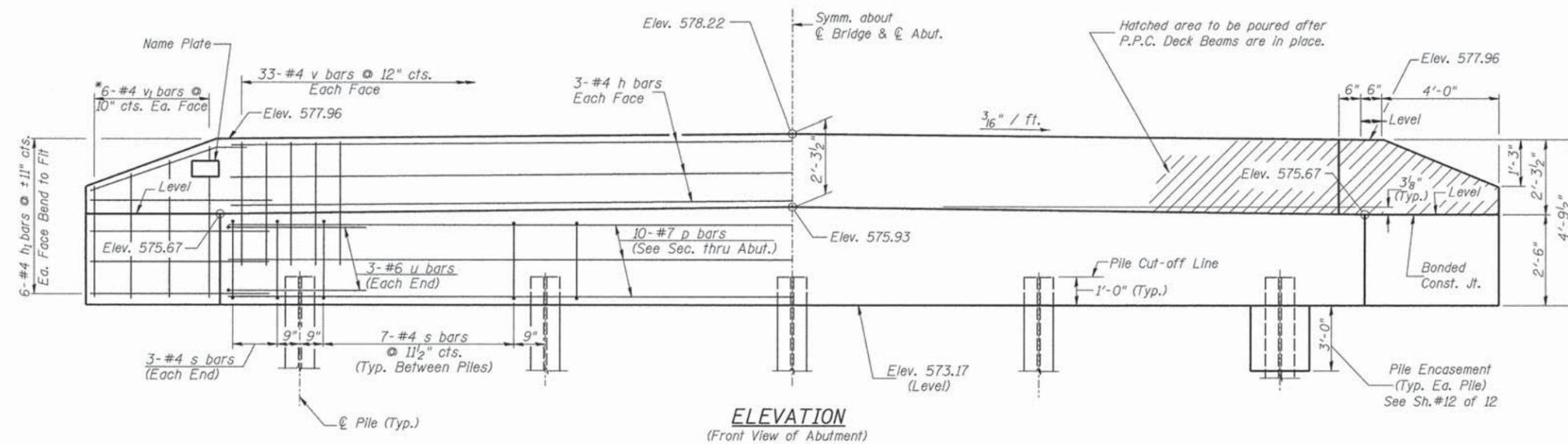
SHEET NO. 8 12 SHEETS	F.A.S. RTE. 597	SECTION 13-00092-00-BR	COUNTY PIKE	TOTAL SHEETS 23	SHEET NO. 14
	S.N. 075-3327		CONTRACT NO. 93666		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0597(105)		



PLAN



SECTION THRU ABUT.



ELEVATION
(Front View of Abutment)

**SOUTH ABUTMENT
BILL OF MATERIAL**

BAR NO.	SIZE	LENGTH	SHAPE
h	#4	32'-9"	—
h ₁	#4	6'-6"	—
p	#7	32'-9"	—
s	#4	10'-5"	□
u	#6	11'-7"	□
v	#4	4'-0"	—
v ₁	#4	7'-9"	—
Concrete Structures			CU YD 13.6
Reinforcement Bars			POUND 1,480
Structure Excavation			CU YD 40
Name Plates			EACH 1
Furnishing Steel Piles HP10x42			FOOT 200
Driving Piles			FOOT 200
Test Pile Steel HP10x42			EACH 1
Concrete Encasement			CU YD 1.7

① See Special Provisions

DESIGN STRESSES

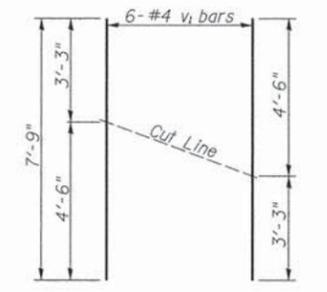
$f'_c = 3,500$ p.s.i.
 $f_y = 60,000$ p.s.i.

NOTES

- The Backwall and the portion of the Wingwalls above the bonded construction joint shall be cast against the in-place beam.
- Reinforcement bars shall conform to ASTM A706 Grade 60.

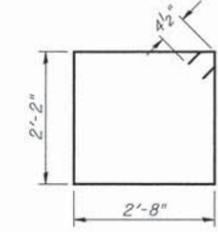
PILE DATA

Type & Size: Steel HP10x42
Nominal Required Bearing: 264 kips
Factored Resistance Available: 145 kips
Est. Length: 50'
No. Req'd.: 5 (Includes 1 Test Pile)

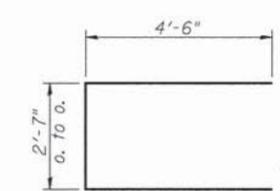


BAR CUTTING DIAGRAM

*Order v₁ bars full length. Cut as shown and use remainder of bars in opposite face.



BAR s

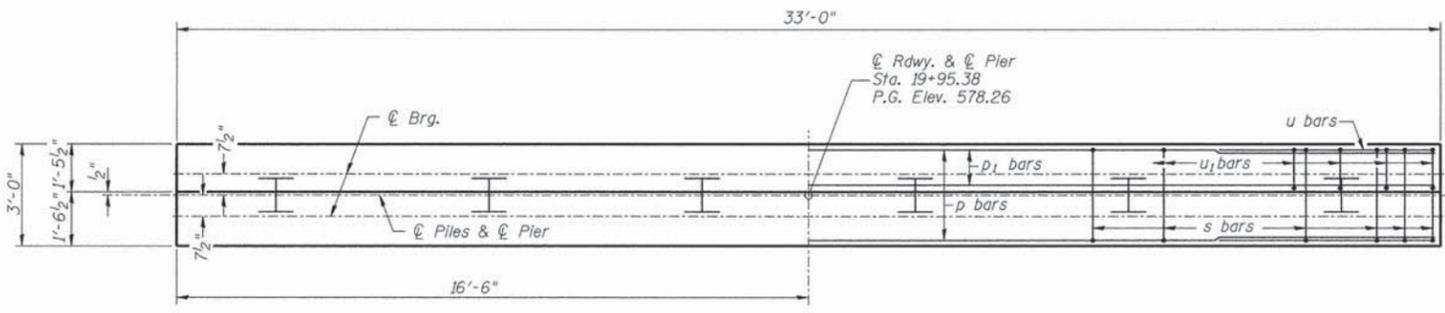


BAR u

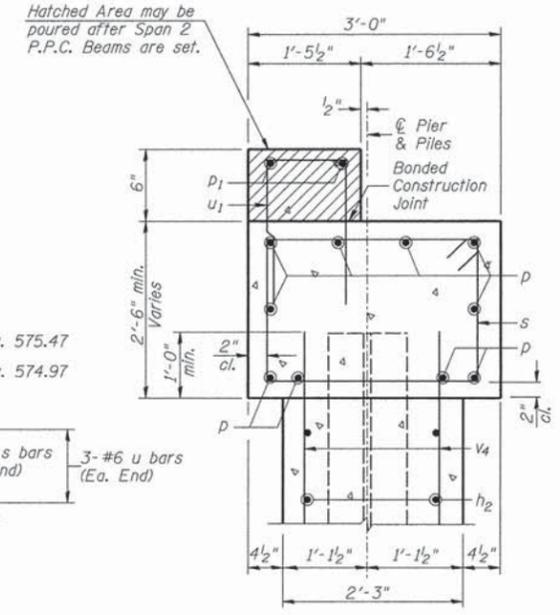
**SOUTH ABUTMENT
PIKE COUNTY
SECTION 13-00092-00-BR
C.H. 4 OVER BULL RUN CREEK**

SHEET NO. 9 12 SHEETS	F.A.S. RTE. 597	SECTION 13-00092-00-BR	COUNTY PIKE	TOTAL SHEETS 23	SHEET NO. 15
	S.N. 075-3327		CONTRACT NO. 93666		
FED. ROAD DIST. NO. 7 ILLINOIS		FED. AID PROJECT BRS-0597(105)			

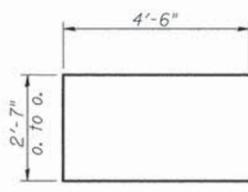
NOTES:
All edges shall have standard 3/4" chamfer.



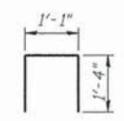
TOP PLAN



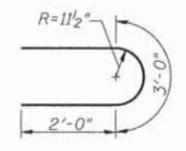
SECTION A-A



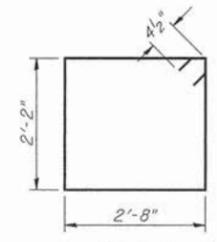
BAR U



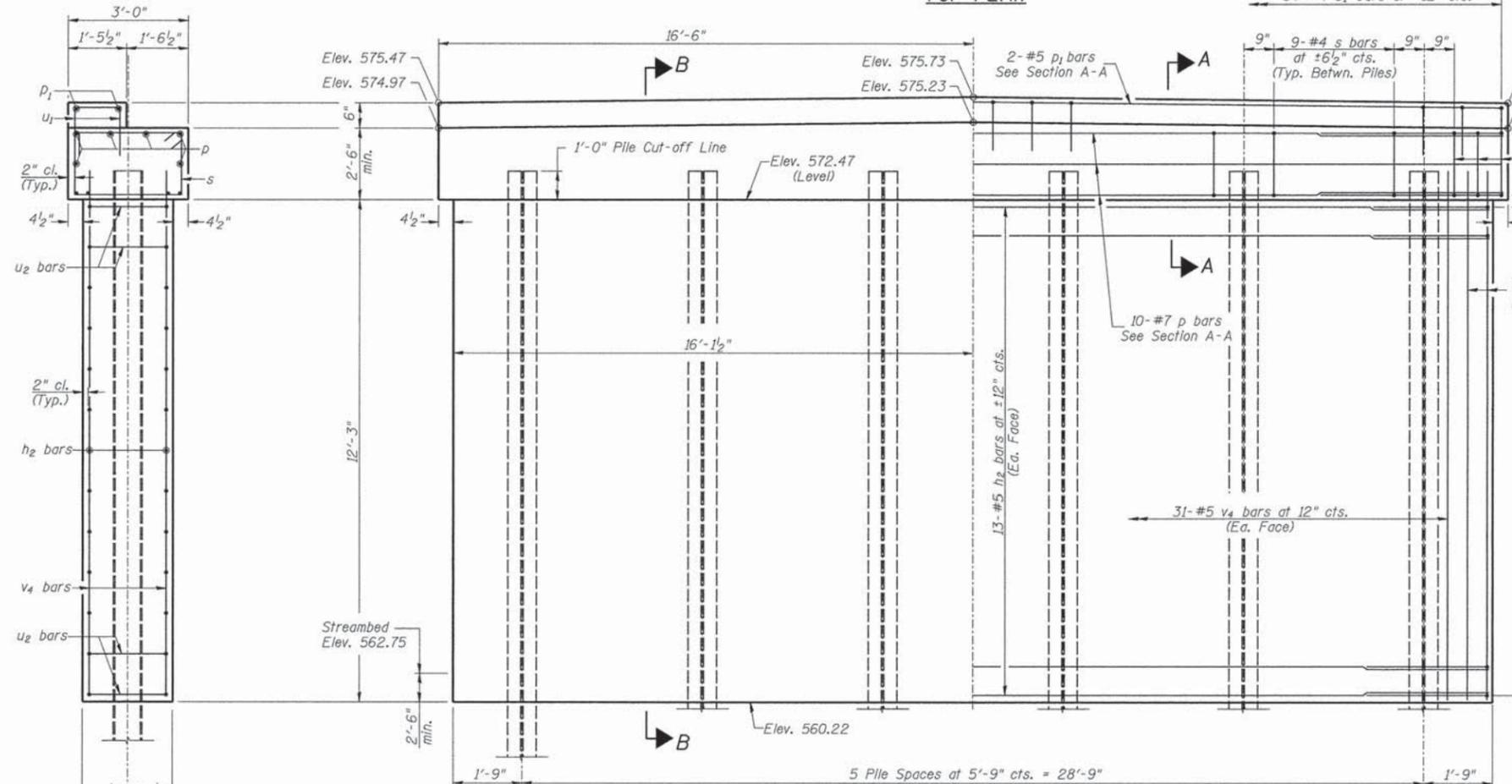
BAR u1



BAR u2

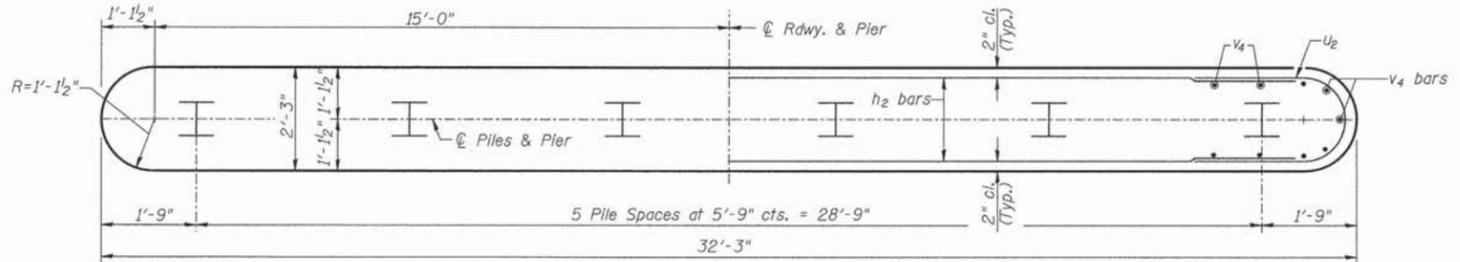


BAR s



ELEVATION
(Looking South)

SECTION B-B



FOOTING PLAN

PIER BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
h ₂	26	#5	29'-9"	—
p	10	#7	32'-9"	—
p ₁	2	#5	32'-9"	—
s	51	#4	10'-5"	□
u	6	#6	11'-7"	□
u ₁	34	#4	3'-9"	□
u ₂	26	#5	7'-0"	□
v ₄	68	#5	13'-1"	—
Concrete Structures			CU YD	43.0
① Reinforcement Bars			POUND	3,210
Cofferdam Excavation			CU YD	40
Furnishing Steel Piles HP14x73			FOOT	330
Driving Piles			FOOT	330
Test Pile Steel HP14x73			EACH	1
① Cofferdam (Type 1) (Location-1)			EACH	1

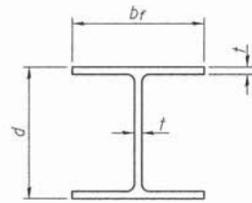
① See Special Provisions

PILE DATA

Type & Size: Steel HP14x73
Nominal Required Bearing: 529 kips
Factored Resistance Available: 291 kips
Est. Length: 66'
No. Req'd.: 6 (Includes 1 Test Pile)

SHEET NO. 11 12 SHEETS	F.A.S. RTE. 597	SECTION 13-00092-00-BR	COUNTY PIKE	TOTAL SHEETS 23	SHEET NO. 17
	S.N. 075-3327		CONTRACT NO. 93666		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0597(105)		

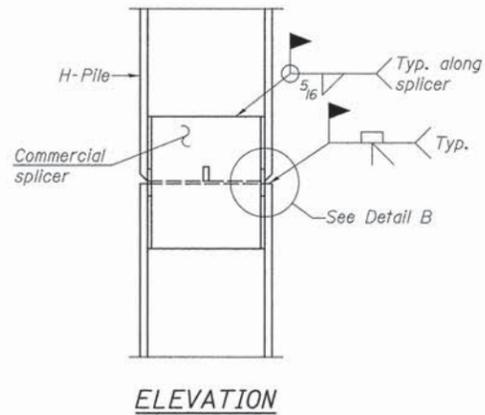
PIER
PIKE COUNTY
SECTION 13-00092-00-BR
C.H. 4 OVER BULL RUN CREEK



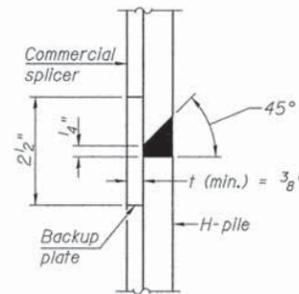
STEEL PILE TABLE

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

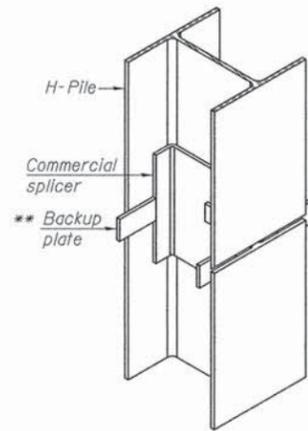
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.



ELEVATION

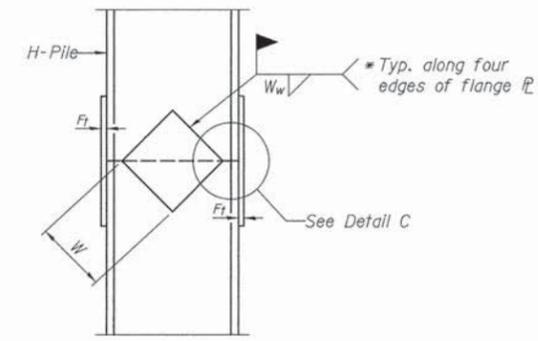


DETAIL "B"

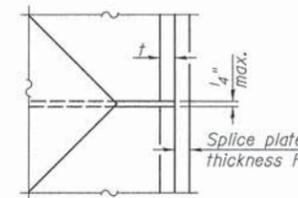


ISOMETRIC VIEW

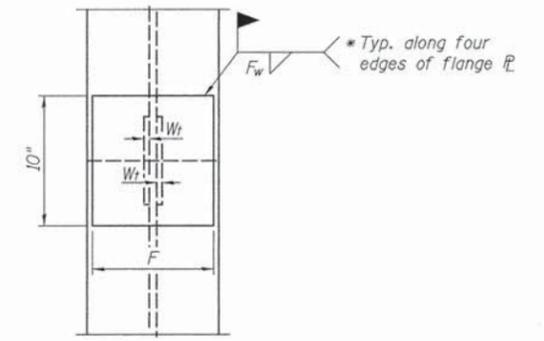
WELDED COMMERCIAL SPLICE



ELEVATION

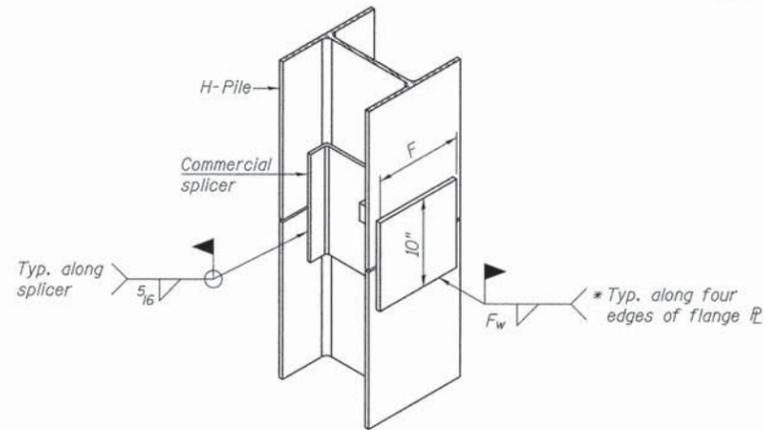


DETAIL C



END VIEW

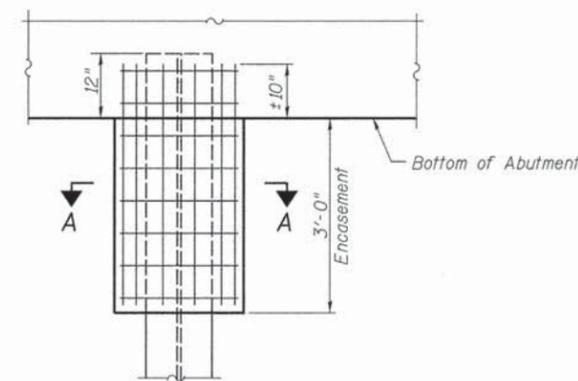
Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"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



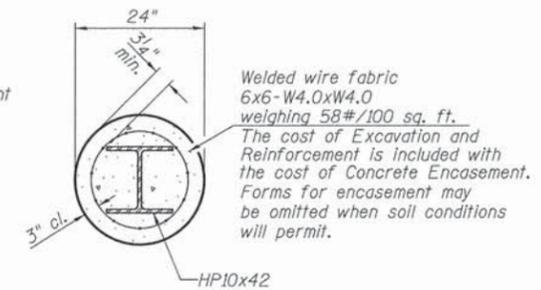
ISOMETRIC VIEW

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.



ABUTMENT ELEVATION



SECTION A-A

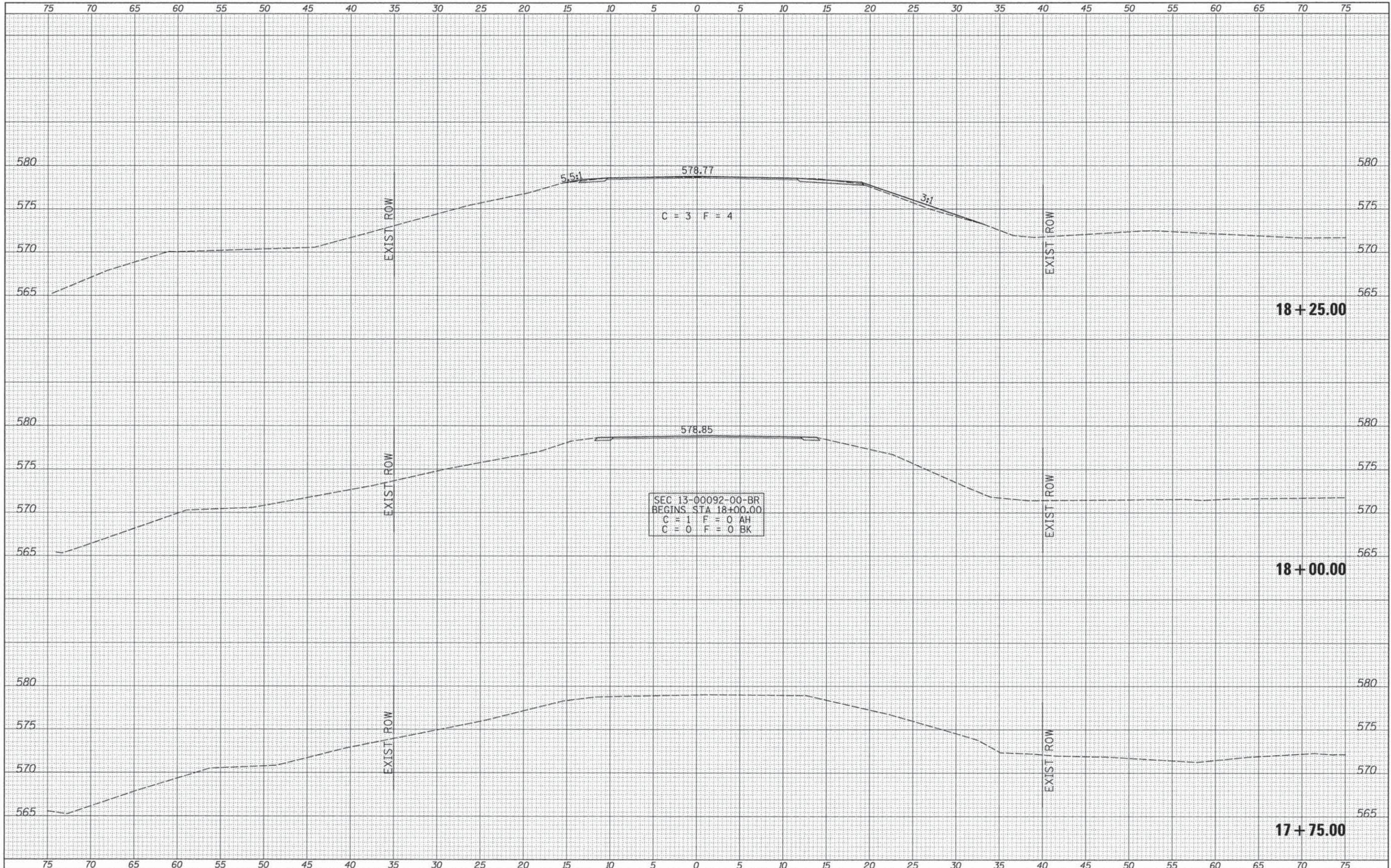
PILE ENCASUREMENT

PILE DETAILS
PIKE COUNTY
SECTION 13-00092-00-BR
C.H. 4 OVER BULL RUN CREEK

SHEET NO. 12	F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12 SHEETS	597	13-00092-00-BR	PIKE	23	18
S.N. 075-3327			CONTRACT NO. 93666		
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0597(105)		

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	
REVISIONS	
NO.	
FILE NAME	
USER NAME	
DESIGNED	
DRAWN	
CHECKED	
DATE	
REVISIONS	
NO.	

DATE	
BY	
DESIGNED	
DRAWN	
CHECKED	
DATE	
REVISIONS	
NO.	
FILE NAME	
USER NAME	
DESIGNED	
DRAWN	
CHECKED	
DATE	
REVISIONS	
NO.	



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USER NAME = JHutchison	DESIGNED -	REVISIONS -
PLOT SCALE = 5.0000' / 1"	DRAWN -	REVISIONS -
PLOT DATE = 10/2/2015	CHECKED -	REVISIONS -
	DATE -	REVISIONS -

**PIKE COUNTY
 COUNTY HIGHWAY 4 OVER
 BULL RUN CREEK**

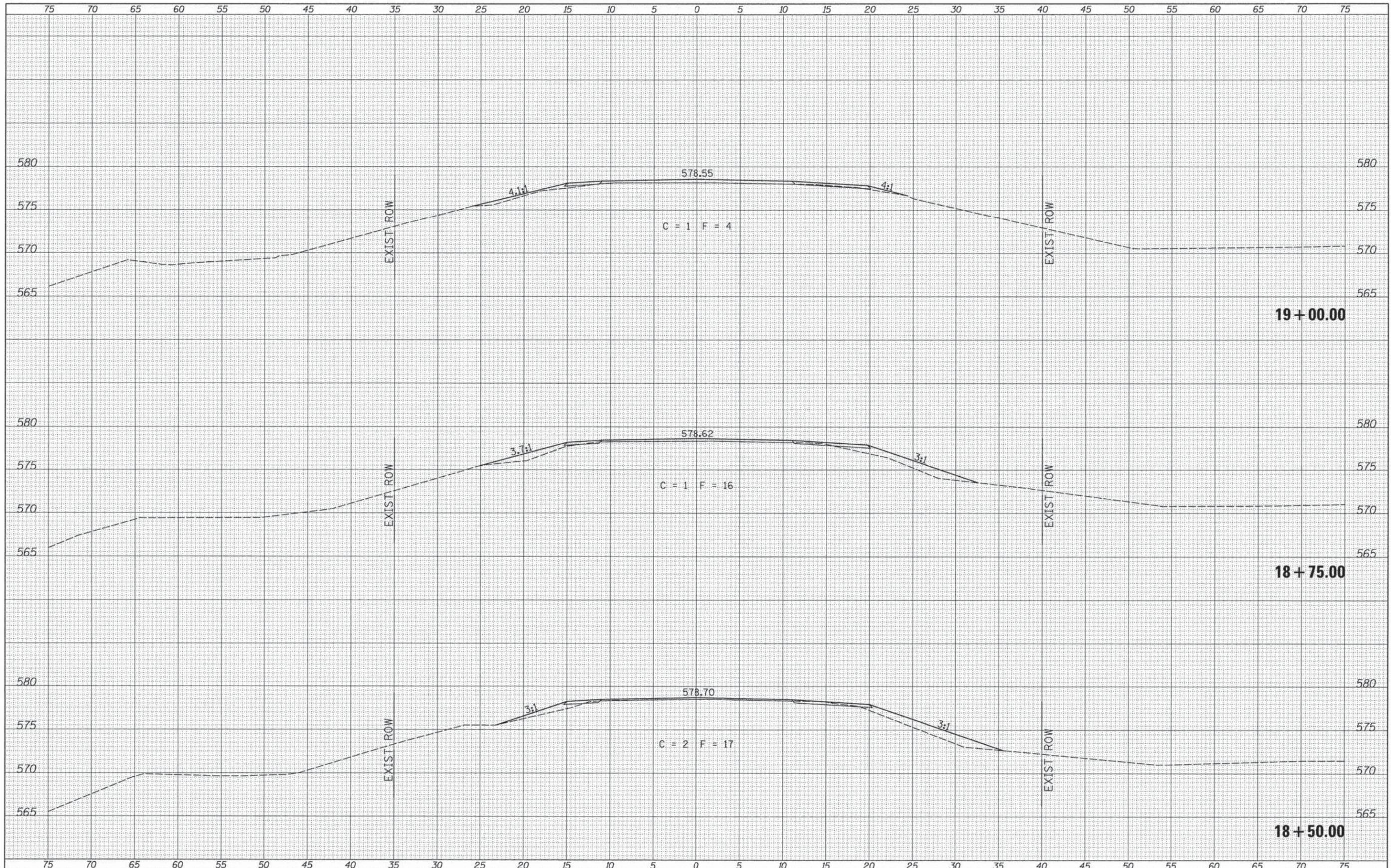
SCALE: 1"=5' SHEET 1 OF 5 SHEETS STA. 17+75.00 TO STA. 18+25.00

CROSS SECTIONS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
597	13-00092-00-BR	PIKE	23	19
FED. ROAD DIST. NO. 7 ILLINOIS			CONTRACT NO. 93666	
FED. AID PROJECT BR5-0597(105)				

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

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



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 PLOT SCALE = 5.0000' / in.
 PLOT DATE = 10/2/2015

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CHECKED -	REVISED -
DATE -	REVISED -

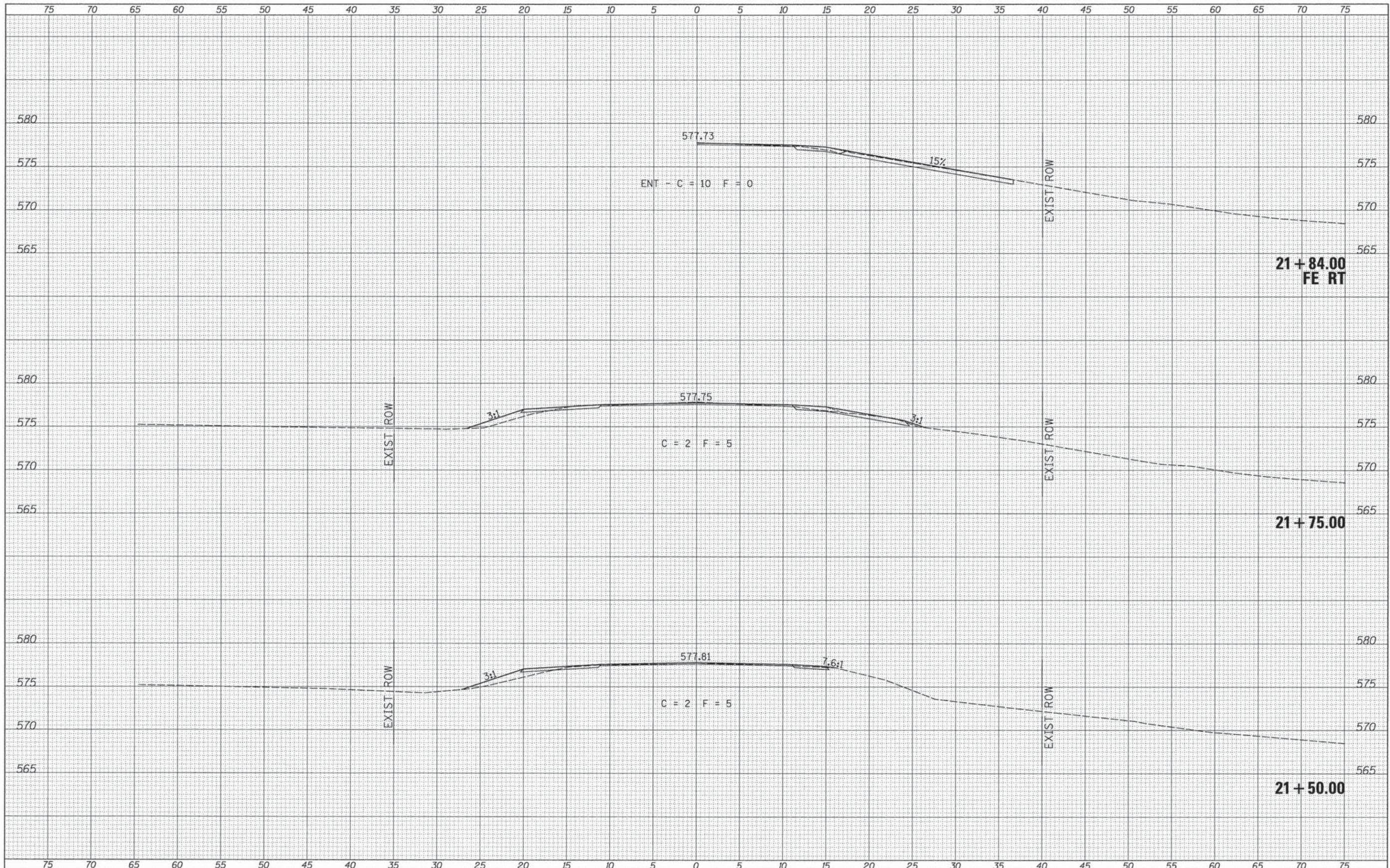
**PIKE COUNTY
 COUNTY HIGHWAY 4 OVER
 BULL RUN CREEK**

CROSS SECTIONS
 SCALE: 1"=5'
 SHEET 2 OF 5 SHEETS
 STA. 18+50.00 TO STA. 19+00.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
597	13-00092-00-BR	PIKE	23	20
CONTRACT NO. 93666			FED. ROAD DIST. NO. 7 (ILLINOIS)	
FED. AID PROJECT BR5-0597(105)				

DATE	
BY	
SURVEYED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
NO.	



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PLOT DATE = 10/2/2015	DATE -	REVISED -

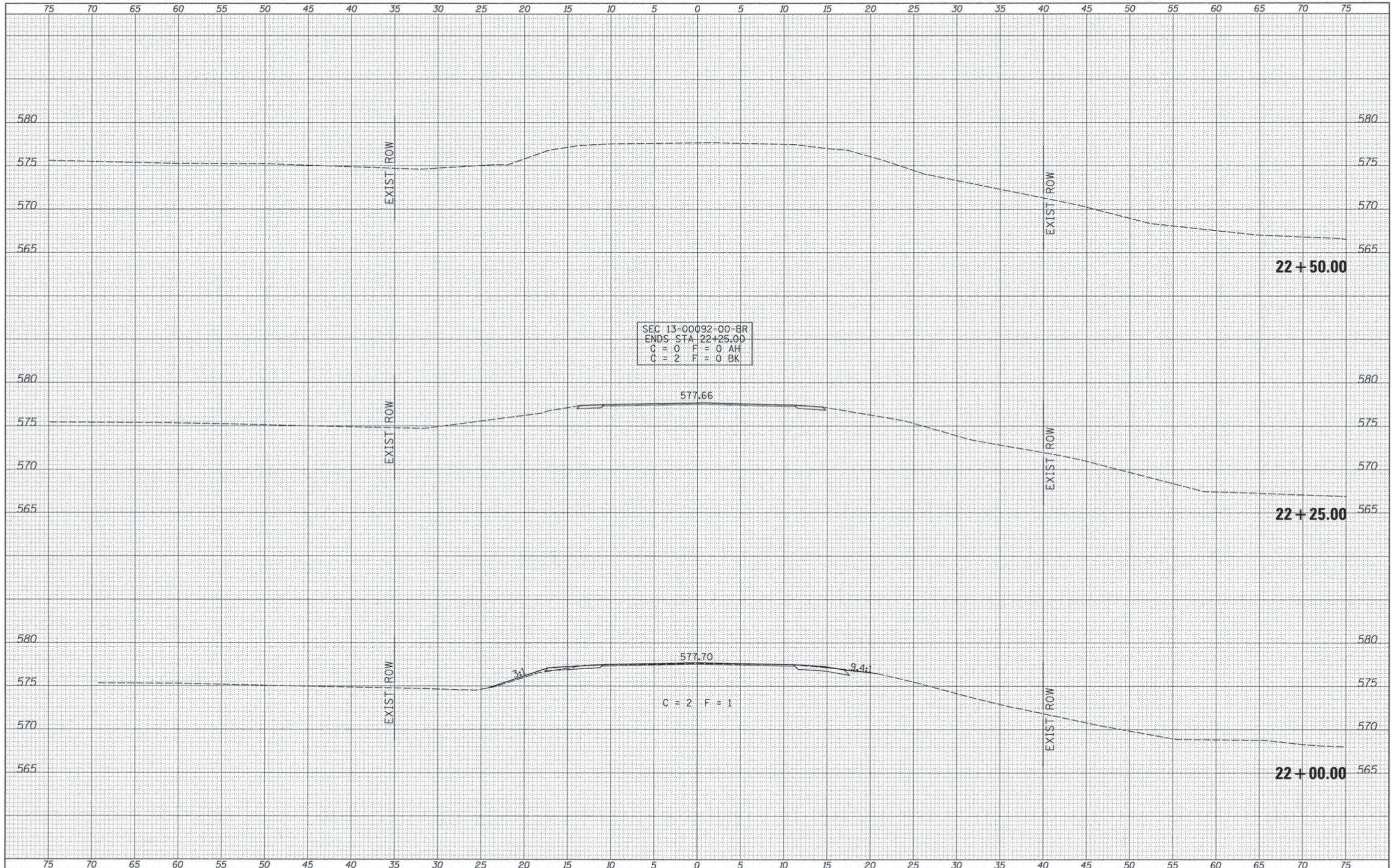
**PIKE COUNTY
 COUNTY HIGHWAY 4 OVER
 BULL RUN CREEK**

CROSS SECTIONS
 SCALE: 1"=5' SHEET 4 OF 5 SHEETS STA. 21+50.00 TO STA. 21+84.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
597	13-00092-00-BR	PIKE	23	22
CONTRACT NO. 93666			FED. ROAD DIST. NO. 7 ILLINOIS	
FED. AID PROJECT BRS-0597(105)				

DATE	
BY	
SUBMITTED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
FINL SURVEY	
NOTE BOOK	
NO.	

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



SEC 13-00092-00-BR
 ENDS STA 22+25.00
 C = 0 F = 0 AH
 C = 2 F = 0 BK

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PLOT SCALE = 5.0000' / in.	DRAWN -	REVISED -
PLOT DATE = 10/2/2015	CHECKED -	REVISED -
	DATE -	REVISED -

**PIKE COUNTY
 COUNTY HIGHWAY 4 OVER
 BULL RUN CREEK**

CROSS SECTIONS

SCALE: 1"=5' SHEET 5 OF 5 SHEETS STA. 22+00.00 TO STA. 22+50.00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
597	13-00092-00-BR	PIKE	23	23
CONTRACT NO. 93666				
FED. ROAD DIST. NO. 7 ILLINOIS			FED. AID PROJECT BRS-0597(105)	