

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1897	08-00073-00-BR	GALLATIN	14	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO.		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED
HIGHWAY BRIDGE PROGRAM**

PROJECT BRS-1897(107)
SECTION 08-00073-00-BR
GALLATIN COUNTY
F.A.S. 1897 / COTTONWOOD ROAD
PROPOSED STRUCTURE NO. 030-3128
C-99-500-09

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	SUMMARY OF QUANTITIES AND TYPICAL SECTIONS
3.	PLAN AND PROFILE
4.-6.	CROSS SECTIONS
7.-13.	BRIDGE PLANS
14.	BORINGS

HIGHWAY STANDARDS:

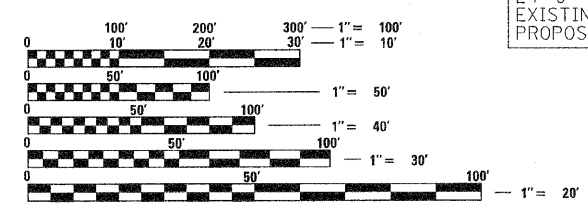
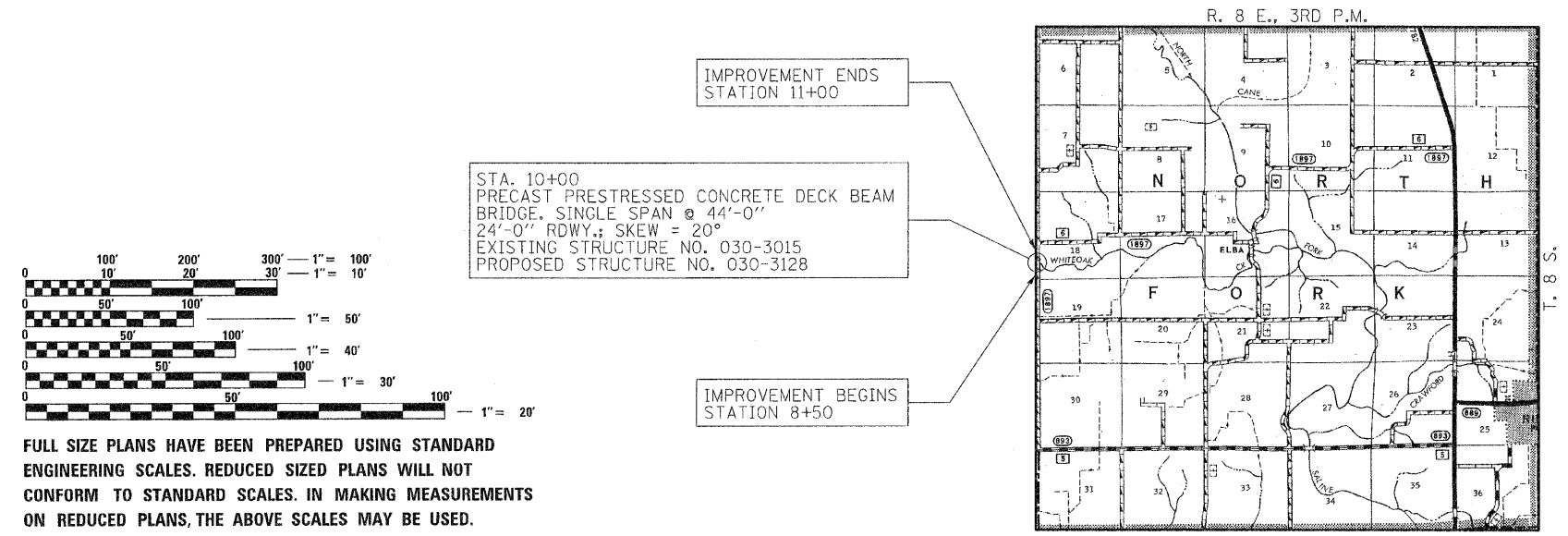
000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
515001-03	NAME PLATE FOR BRIDGES
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
701901-01	TRAFFIC CONTROL DEVICES
BLR 21-8	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

UTILITIES

VERIZON NORTH
110 EAST MONROE
P.O. BOX 2675
BLOOMINGTON, IL 61701-2675



FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR (NON-URBAN < 400 ADT)
DESIGN SPEED: 30 MPH
DESIGN TRAFFIC: 75 ADT



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.

LOCATION MAP
APPROXIMATE SCALE: 0 1 MILE
NET LENGTH OF SECTION = 250 FEET = 0.0473 MILES



ILLINOIS DEPARTMENT OF TRANSPORTATION

APPROVED SEPT 13 2010
Jim W. P... County Engineer

PASSED Oct. 27 2010
Dennis W. Hill... District Nine Engineer of Local Roads & Streets

Releasing For Bid Based on Limited Review Oct. 28 2010
Warry C. Lammie Deputy/Director of Highways Region Five Engineer State of Illinois Department of Transportation

CONTRACT NO. 99422

DATE: 08/27/2010

HAMPTON, LENZINI AND RENWICK, INC.
CIVIL ENGINEERS • STRUCTURAL ENGINEERS • LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
217.546.3400 www.hlrengineering.com

184.000959
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION

EXPIRES: 11/30/2011 PROJECT NUMBER: 09.0121.130 DATE: 08/27/10

SUMMARY OF QUANTITIES			
		CONSTRUCTION CODE	
		11	
CODE NO	ITEM	UNIT	QUANTITY
20100500	TREE REMOVAL, ACRES	ACRE	0.1
20200100	EARTH EXCAVATION	CU YD	280
20300100	CHANNEL EXCAVATION	CU YD	50
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	207
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	22.8
50300280	CONCRETE ENCASEMENT	CU YD	2.8
50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	1,056
50800105	REINFORCEMENT BARS	POUND	2,400
* 50900205	STEEL RAILING, TYPE S1	FOOT	85
51201400	FURNISHING STEEL PILES HP10X42	FOOT	280
51202305	DRIVING PILES	FOOT	280
51500100	NAME PLATES	EACH	1
67100100	MOBILIZATION	L SUM	1
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
> X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.2
> X2810708	STONE DUMPED RIPRAP, CLASS A4 (SPECIAL)	SQ YD	150

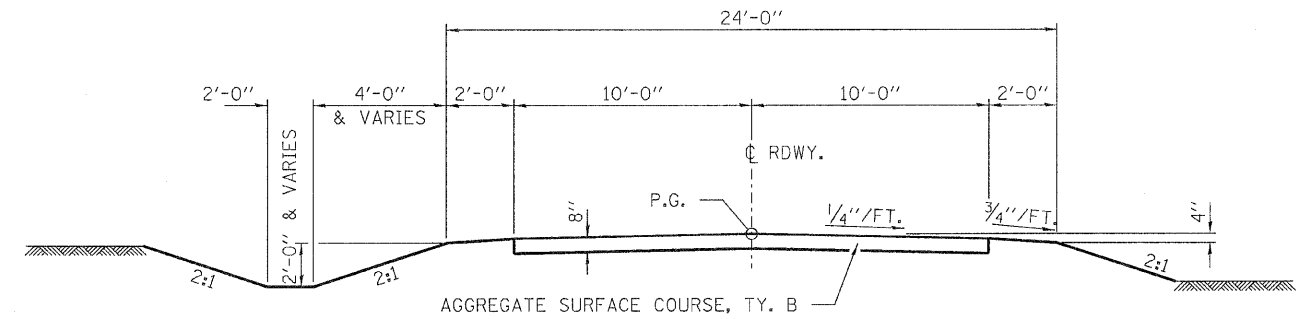
* SPECIALTY ITEMS
> SEE SPECIAL PROVISIONS

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2007," THESE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- ALL CLEARING AND GRUBBING AND REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE INCLUDED IN CONTRACT. THE REMOVAL OF THE EXISTING AGGREGATE BASE COURSE AND A-3 SURFACE WILL BE PAID FOR AS EARTH EXCAVATION. ALL BITUMINOUS MATERIAL SHALL BE PROPERLY DISPOSED OF AS APPROVED BY THE ENGINEER.
- THE LOCATIONS OF EXISTING ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATION AND THE BEST INFORMATION AVAILABLE, BUT THE LOCATIONS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE INDIVIDUAL UTILITY COMPANIES AND BY FIELD INSPECTION.
- THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL SECTION OR SUBSECTION MONUMENTS UNTIL THE OWNER, HIS AGENT, PROFESSIONAL LAND SURVEYOR HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE REVISION NUMBER INDICATED FOR THE STANDARDS LISTED IN THE INDEX OF SHEETS SHALL BE USED IN THE CONSTRUCTION OF THIS SECTION.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES
 AGGREGATE BASE CSE. 2.05 TON/CU YD
 STONE DUMPED RIPRAP, CLASS A4 (SPECIAL) 1.75 TON/CU YD
- THE AREA TO BE SEEDING SHALL CONSIST OF ALL EARTH SURFACES DISTURBED DURING CONSTRUCTION AS DIRECTED BY THE ENGINEER. ESTIMATED QUANTITY: SEEDING, CLASS 2 (SPECIAL) = 0.2 ACRES

EARTHWORK SCHEDULE						
LOCATION	EARTH EXCAVATION (CU YD)	SHRINKAGE FACTOR	PERCENT USED	AVAILABLE* EXCAVATION (CU YD)	EMBANKMENT REQUIRED (CU YD)	EARTHWORK BALANCE (CU YD)
STA. 8+50 TO STA. 9+77.29	154	25%	100%	116	45	71
STA. 9+77.29 TO STA. 10+22.71	-	25%	100%	-	-	-
STA. 10+22.71 TO STA. 11+00	122	25%	100%	92	38	54
CHANNEL EXCAVATION ENTRANCES	(50)	25%	70%	26	0	26
TOTAL	276			234	83	151
USE:	280					150

* AVAILABLE EXCAVATION = EXC. x (1-SHRINKAGE FACTOR) x % USED (WASTE.)



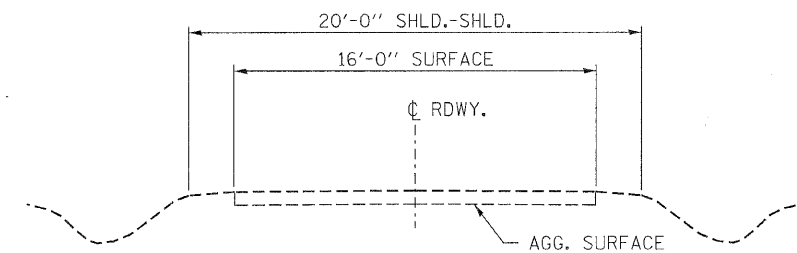
SUGGESTED CUT SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

SUGGESTED FILL SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

TYPICAL CROSS SECTION

STA. 8+50 TO 11+00

TRANSITION FROM THE PROPOSED ROADWAY TO THE EXISTING ROADWAY IS TO BE CONSTRUCTED FROM STA. 8+50 TO 9+00 AND STA. 10+50 TO 11+00. SEE SHEET 7 FOR TRANSITION AT BRIDGE.

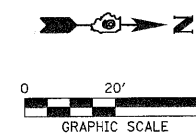


EXISTING CROSS SECTION

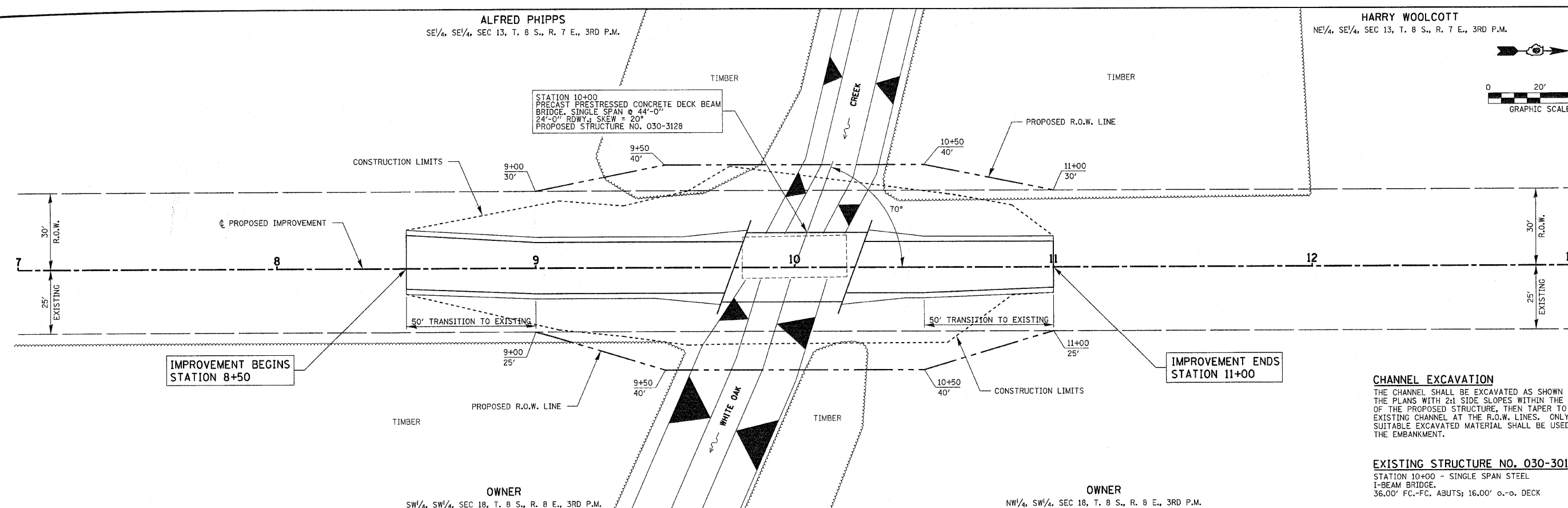
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		DRAWN - D.T.M.	REVISED -				1897	08-00073-00-BR	GALLATIN	14	2
		CHECKED - S.W.M.	REVISED -				CONTRACT NO. 99422				
		DATE - 08/27/10	REVISED -				FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT				
				SCALE:		SHEET NO. OF SHEETS	STA. TO STA.				

ALFRED PHIPPS
SE 1/4, SE 1/4, SEC 13, T. 8 S., R. 7 E., 3RD P.M.

HARRY WOOLCOTT
NE 1/4, SE 1/4, SEC 13, T. 8 S., R. 7 E., 3RD P.M.



STATION 10+00
PRECAST PRESTRESSED CONCRETE DECK BEAM
BRIDGE, SINGLE SPAN @ 44'-0"
24'-0" ROWY, SKEW = 20°
PROPOSED STRUCTURE NO. 030-3128

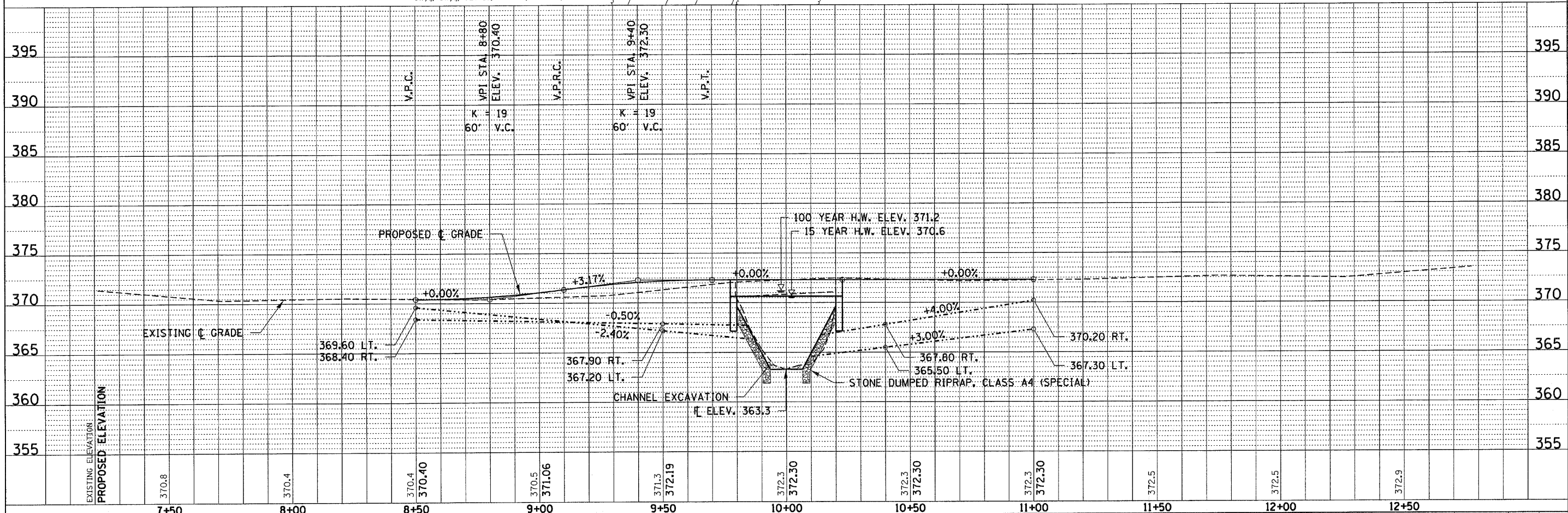


CHANNEL EXCAVATION
THE CHANNEL SHALL BE EXCAVATED AS SHOWN IN THE PLANS WITH 2:1 SIDE SLOPES WITHIN THE LIMITS OF THE PROPOSED STRUCTURE, THEN TAPER TO THE EXISTING CHANNEL AT THE R.O.W. LINES. ONLY SUITABLE EXCAVATED MATERIAL SHALL BE USED IN THE EMBANKMENT.

EXISTING STRUCTURE NO. 030-3015
STATION 10+00 - SINGLE SPAN STEEL I-BEAM BRIDGE.
36.00' FC-FC, ABUTS; 16.00' o.-o. DECK

DATE	
BY	
PLAN	
SURVEYED	
ALIGNED	
CHECKED	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	
NO. 11	
NO. 12	
NO. 13	
NO. 14	
NO. 15	
NO. 16	
NO. 17	
NO. 18	
NO. 19	
NO. 20	

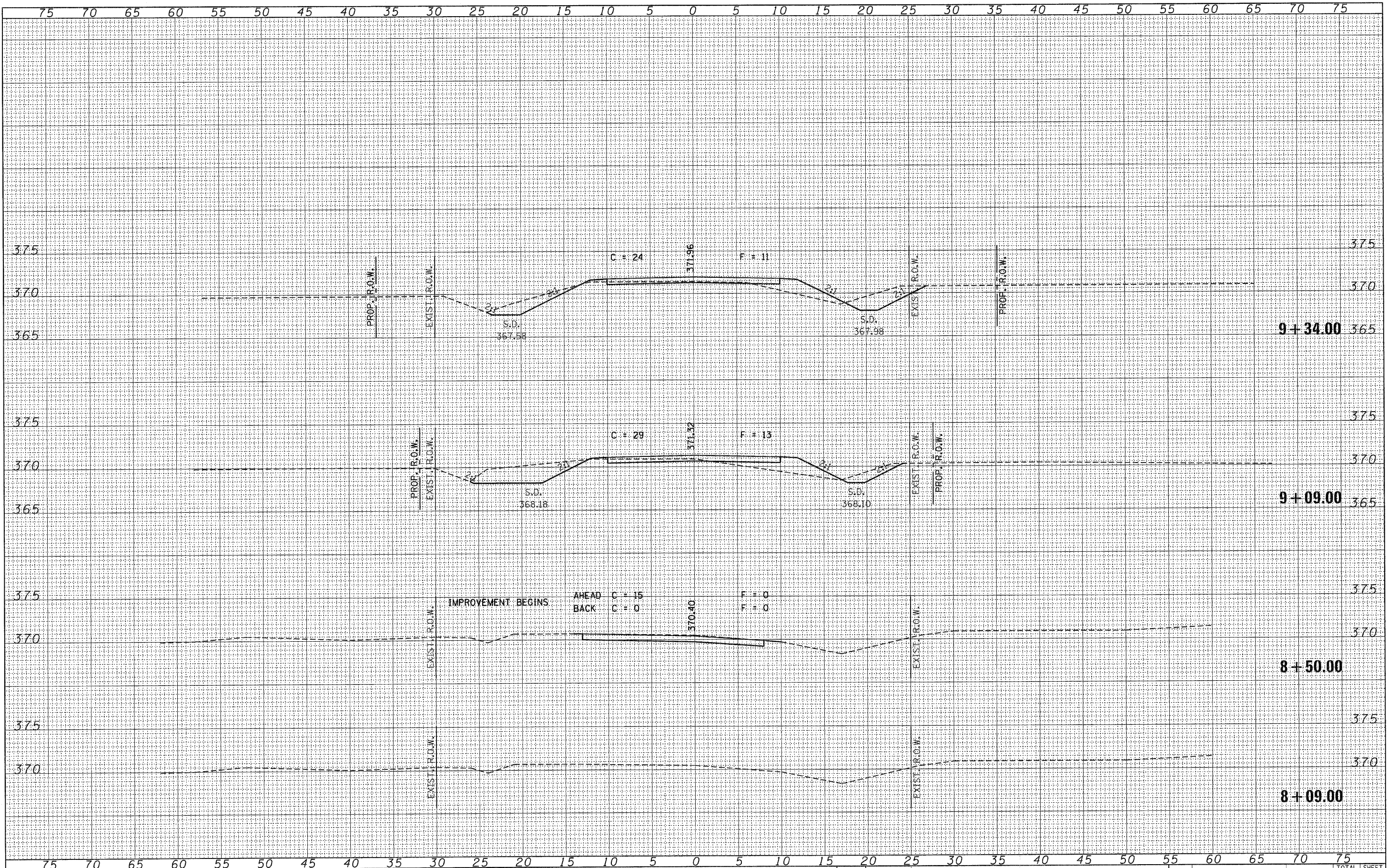
DATE	
BY	
PROFILE	
SURVEYED	
GRADES CHECKED	
NO. 1	
NO. 2	
NO. 3	
NO. 4	
NO. 5	
NO. 6	
NO. 7	
NO. 8	
NO. 9	
NO. 10	
NO. 11	
NO. 12	
NO. 13	
NO. 14	
NO. 15	
NO. 16	
NO. 17	
NO. 18	
NO. 19	
NO. 20	



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PLOT SCALE =	CHECKED - S.W.M.	REVISED -	SCALE: 20H:5V				SHEET NO. 1 OF 1 SHEETS		STA. 7+00 TO STA. 13+00		CONTRACT NO. 99422		
PLOT DATE = 10/22/2010	DATE - 12/09/09	REVISED -	FED. ROAD DIST. NO.				ILLINOIS FED. AID PROJECT						

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

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



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	DRAWN - D.T.M.	REVISED -
PLOT SCALE =	CHECKED - S.W.M.	REVISED -
PLOT DATE = 8/27/2010	DATE - 12/09/09	REVISED -

STATE OF ILLINOIS
GALLATIN COUNTY HIGHWAY DEPARTMENT

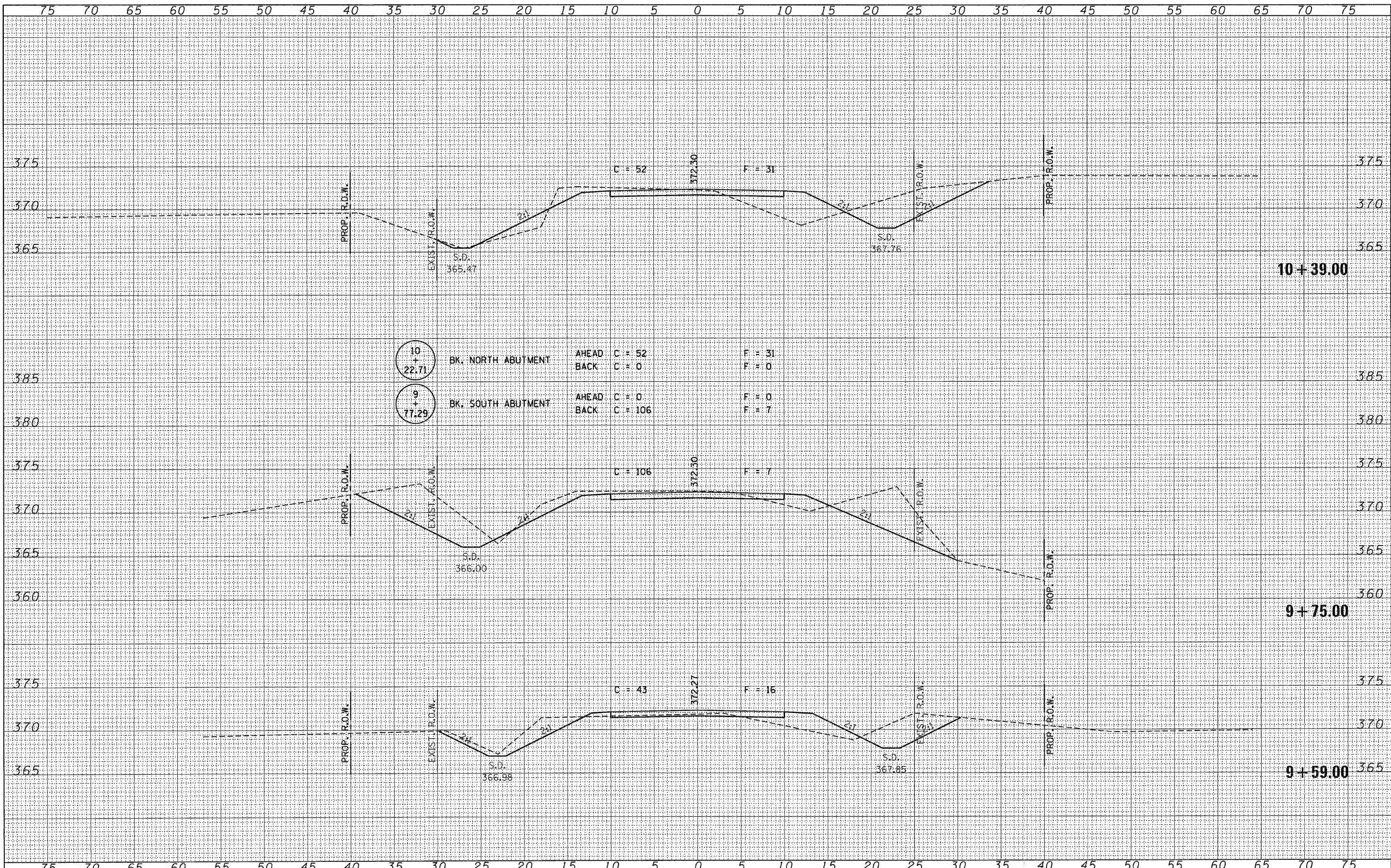


CROSS SECTIONS
COTTONWOOD ROAD
SCALE: 5H:5V
SHEET NO. OF SHEETS STA. 8+09.00 TO STA. 9+34.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1897	08-00073-00-BR	GALLATIN	14	4
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		
CONTRACT NO. 99422				

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

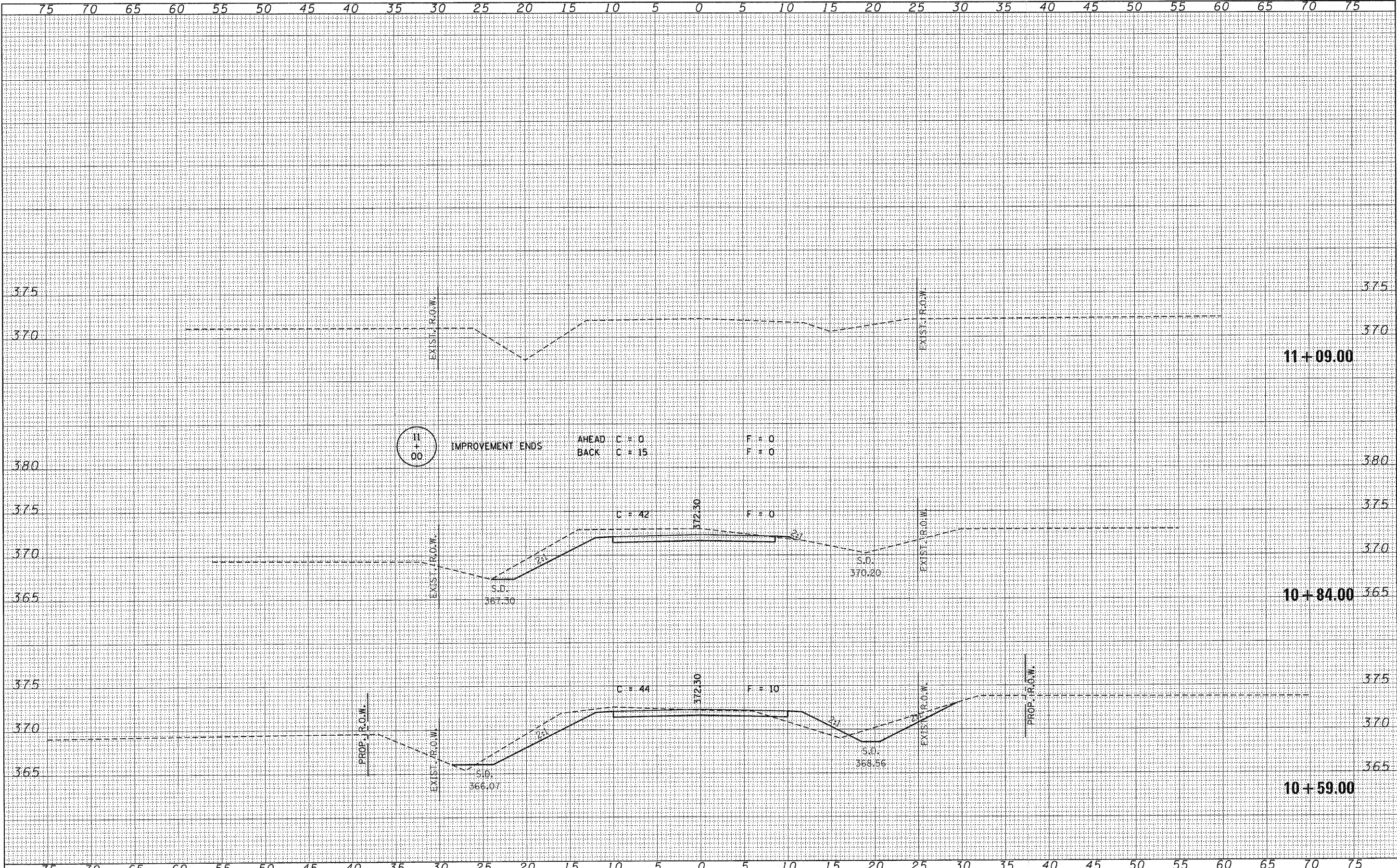
DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



10 + 39.00	BK. NORTH ABUTMENT	AHEAD C = 52	F = 31
		BACK C = 0	F = 0
9 + 75.00	BK. SOUTH ABUTMENT	AHEAD C = 0	F = 0
		BACK C = 106	F = 7

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 TEMPLATE _____
 AREAS CHECKED _____
 NO. _____

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 TEMPLATE _____
 AREAS CHECKED _____
 NO. _____



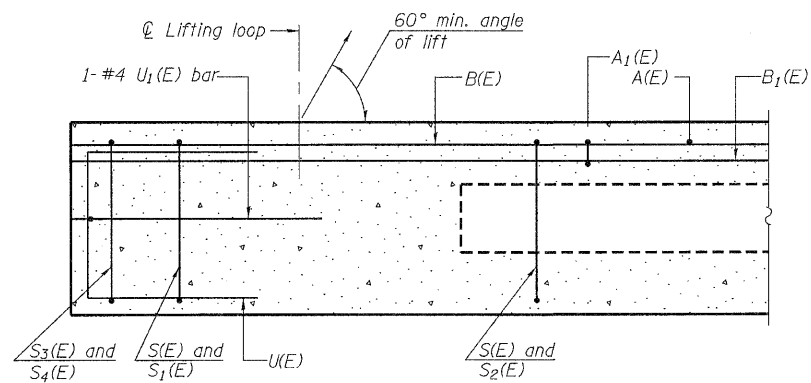
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 USER NAME =
 PLOT SCALE =
 PLOT DATE = 8/27/2018

DESIGNED - A.S.L.	REVISED -
DRAWN - D.T.M.	REVISED -
CHECKED - S.W.M.	REVISED -
DATE - 12/09/09	REVISED -

STATE OF ILLINOIS
 GALLATIN COUNTY HIGHWAY DEPARTMENT

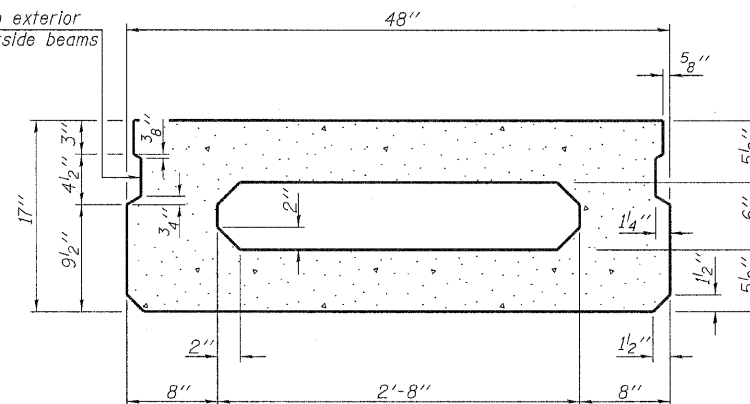
HLR
 SCALE: 5H:5V
 SHEET NO. OF SHEETS STA. 10+59.00 TO STA. 11+09.00

F.A.S. 1897	SECTION 08-00073-00-BR	COUNTY GALLATIN	TOTAL SHEETS 14	SHEET NO. 6
FED. ROAD DIST. NO. ILLINOIS		FED. AID PROJECT CONTRACT NO. 99422		

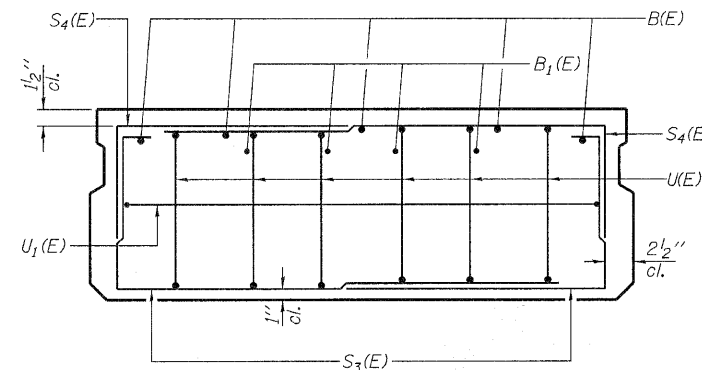


SECTION C-C

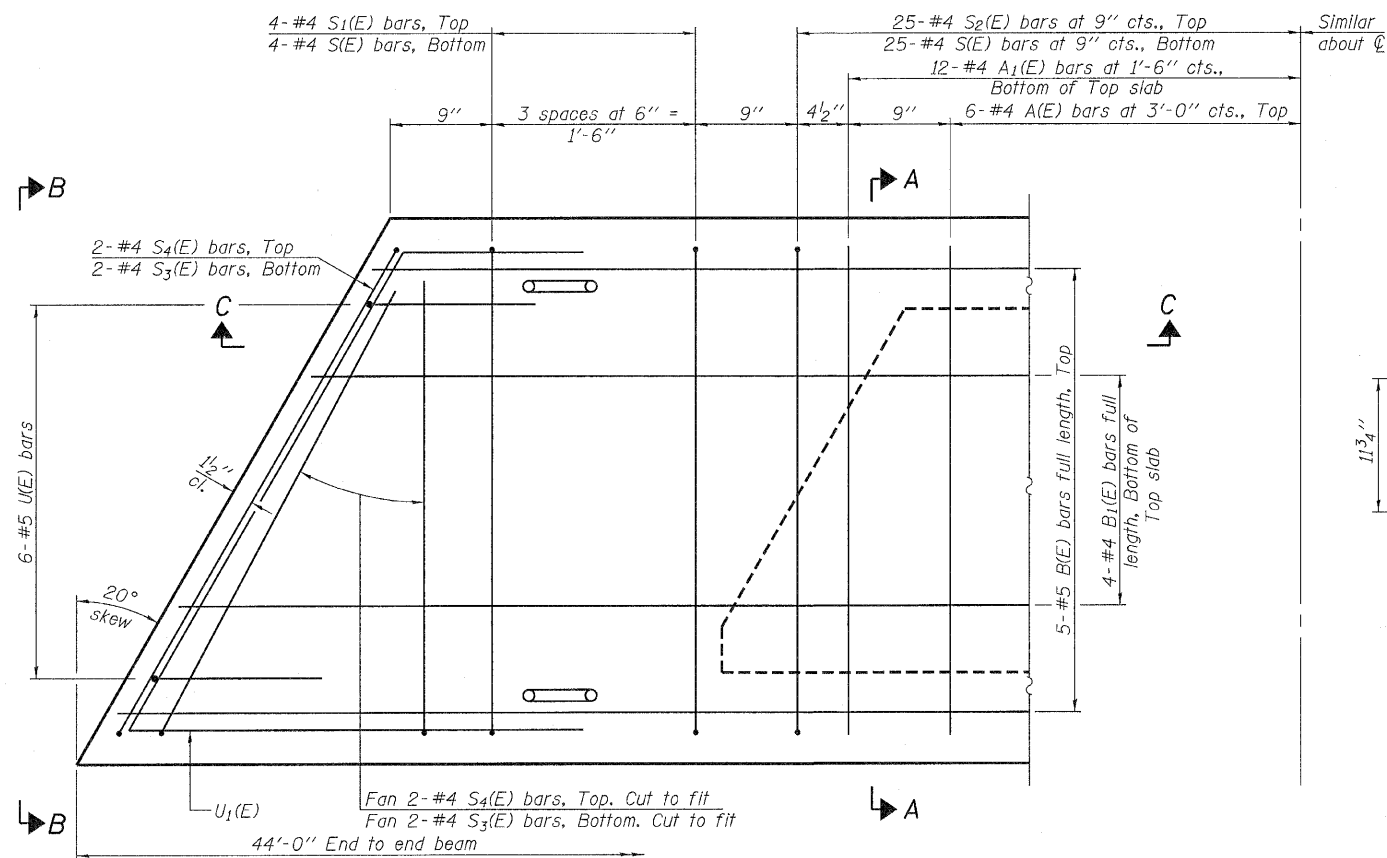
Omit key on exterior face of outside beams



SECTION A-A
(Showing dimensions)

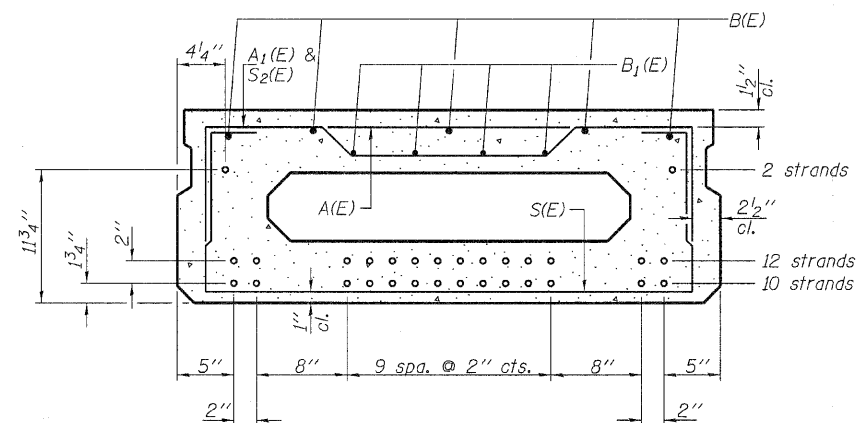


VIEW B-B



PLAN VIEW

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.



SECTION A-A
(Showing reinforcement and permissible strand locations)

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

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	12	#4	3'-7"	—
A1(E)	24	#4	3'-10"	—
B(E)	5	#5	43'-8"	—
B1(E)	4	#4	43'-8"	—
S(E)	58	#4	6'-9"	⌈
S1(E)	8	#4	5'-3"	⌈
S2(E)	50	#4	5'-6"	⌈
S3(E)	8	#4	4'-5"	⌈
S4(E)	8	#4	3'-8"	⌈
U(E)	12	#5	3'-8"	⌈
U1(E)	2	#4	7'-6"	⌈

Note: See sheet 9 & 10 for additional details and Bill of Material.

MINIMUM BAR LAP

#4 bar = 2'-0"
#5 bar = 2'-6"

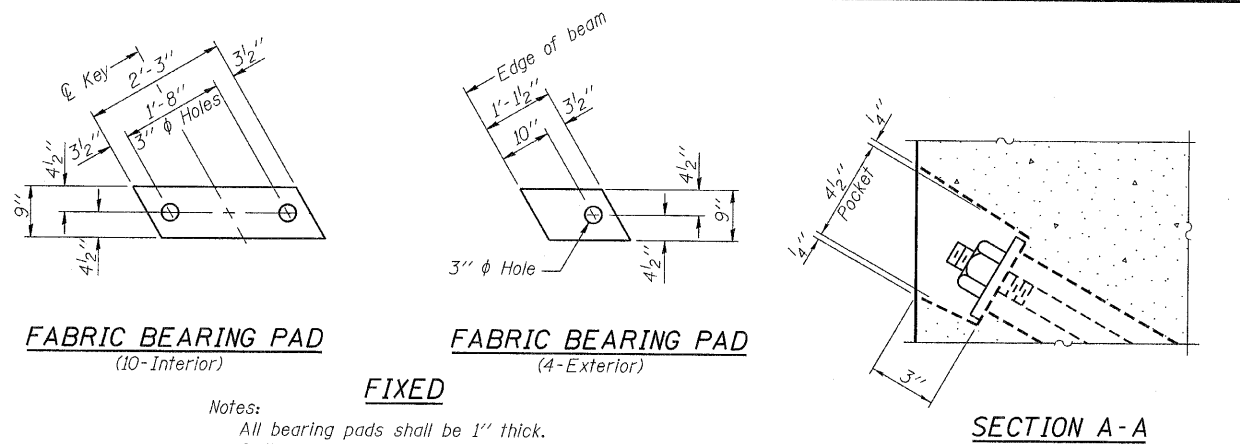
SUPERSTRUCTURE
17" X 48" PPC DECK BEAM
STRUCTURE NO. 030-3128

DESIGNED - A.S.L.
CHECKED - S.W.M.
DRAWN - D.T.M.
CHECKED - S.W.M.

PD-1748-L

11-1-09

HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400	SHEET NO. 2 8 SHEETS	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		1897	08-00073-00-BR	GALLATIN	14	8
PROJECT NUMBER: 09.0121.130		DATE: 08/27/10		CONTRACT NO. 99422		
		FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		

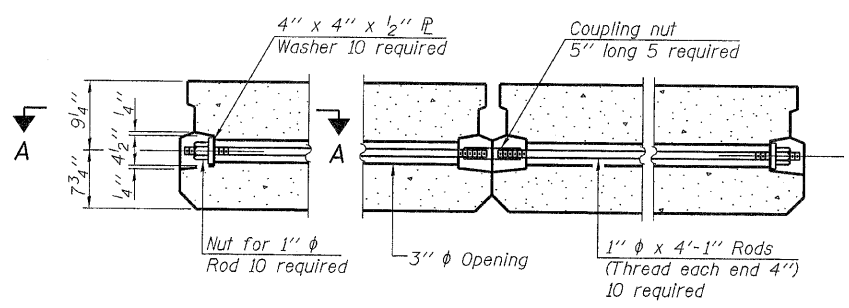


FABRIC BEARING PAD
(10-Interior)

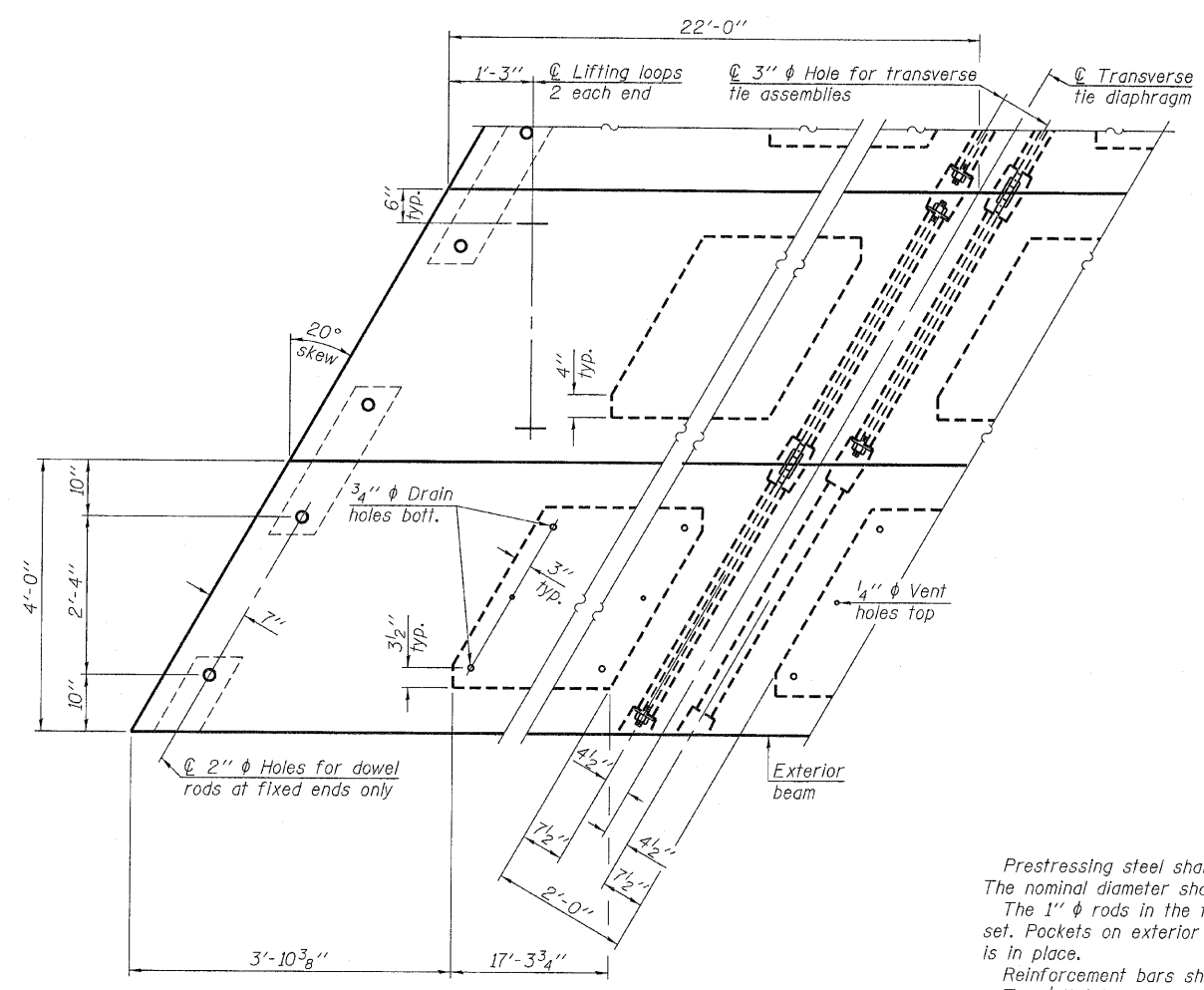
FABRIC BEARING PAD
(4-Exterior)

SECTION A-A

Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



TYPICAL TRANSVERSE TIE ASSEMBLY



PLAN VIEW

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

DESIGNED - A.S.L.
CHECKED - S.W.M.
DRAWN - D.T.M.
CHECKED - S.W.M.

PD-1748-LD 11-1-09

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. (See Special Provisions).

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

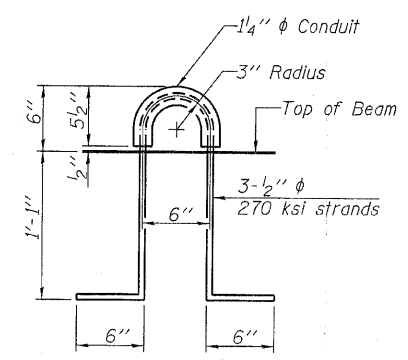
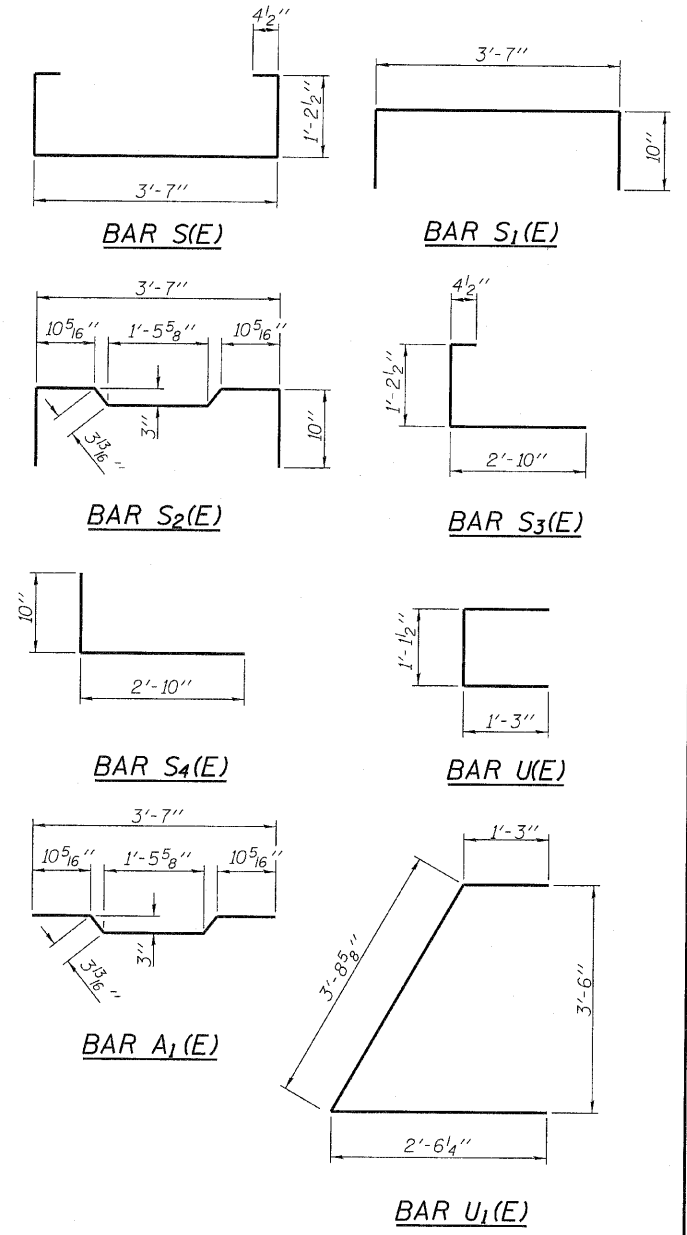
A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 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.

All bars shall be epoxy coated.



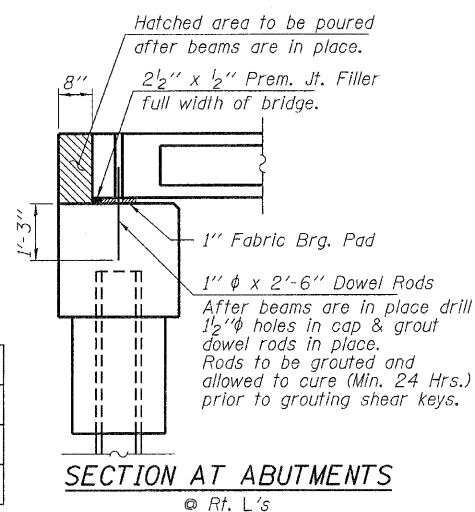
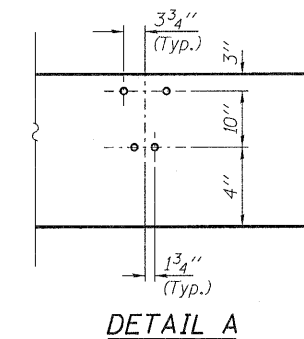
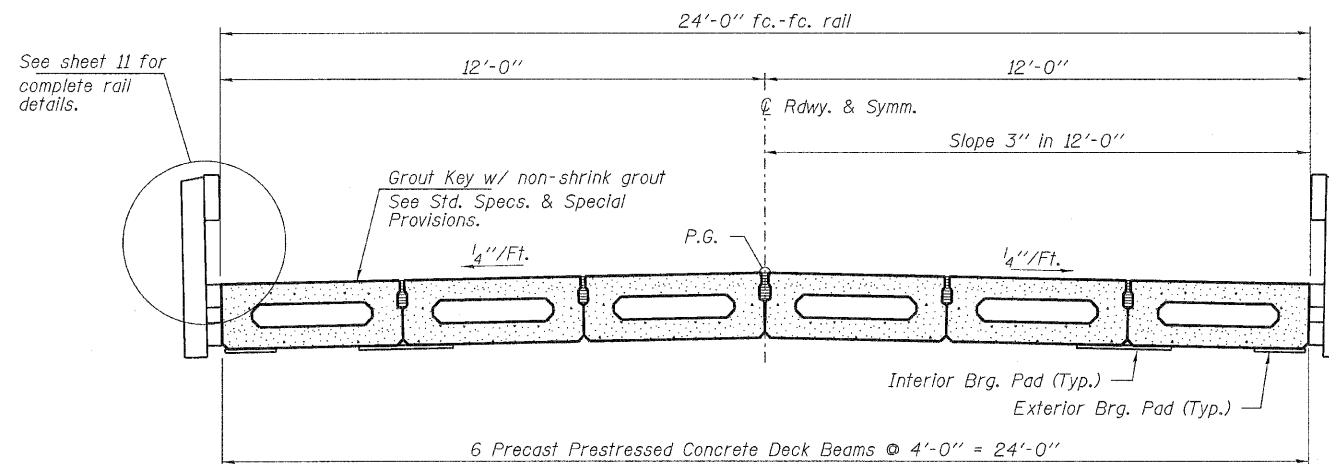
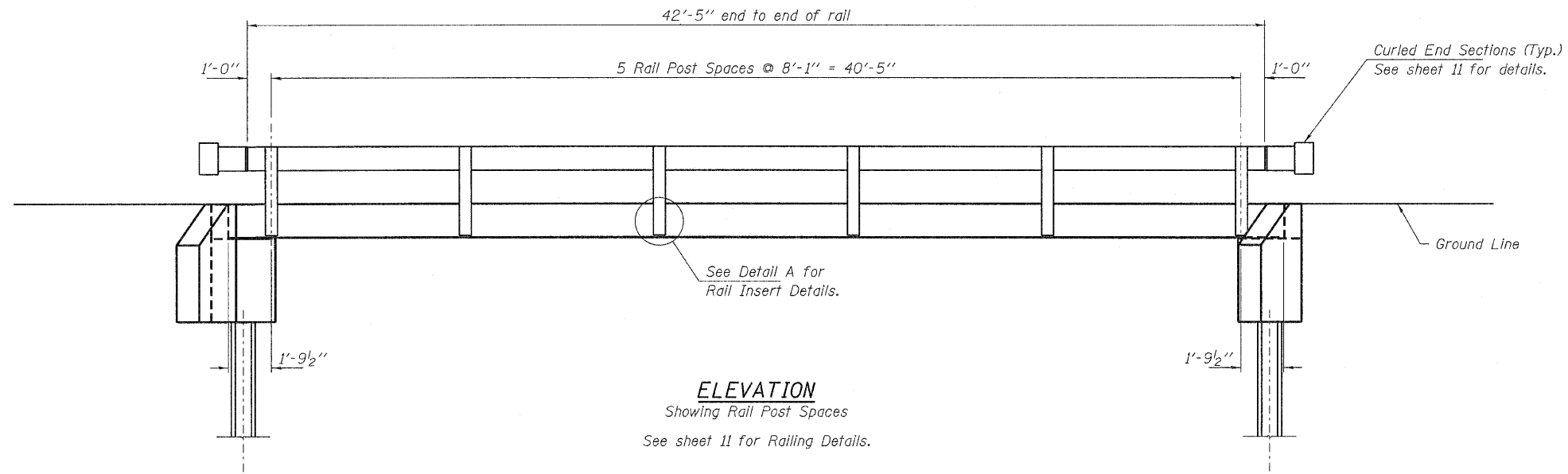
LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	1,056
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SUPERSTRUCTURE
17" X 48" PPC DECK BEAM DETAILS
STRUCTURE NO. 030-3128

HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS HLR 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400 PROJECT NUMBER: 09.0121.130 DATE: 09/27/10	SHEET NO. 3	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	8 SHEETS	1897	08-00073-00-BR	GALLATIN	14	9
				CONTRACT NO. 99422		
		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

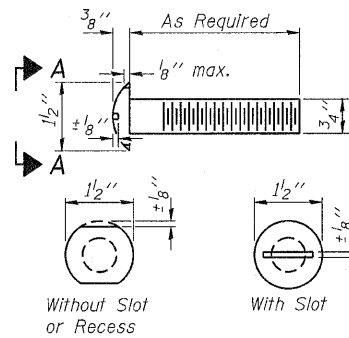


CROSS SECTION
See sheets 8 & 9 for Superstructure.

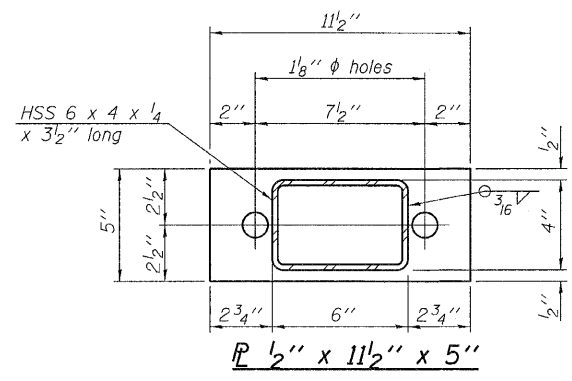
DESIGNED - A.S.L.
CHECKED - S.W.M.
DRAWN - D.T.M.
CHECKED - S.W.M.

SUPERSTRUCTURE DETAILS
STRUCTURE NO. 030-3128

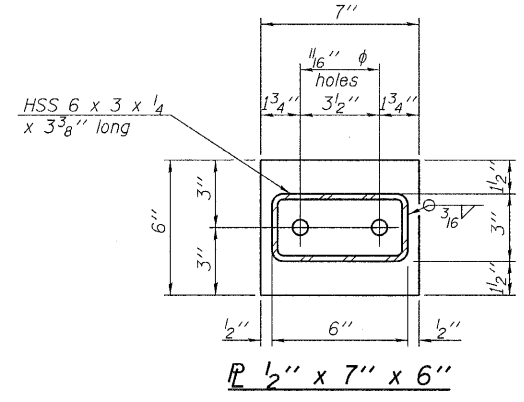
HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS HLR 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400	SHEET NO. 4 8 SHEETS	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		1897	08-00073-00-BR	GALLATIN	14	10
PROJECT NUMBER: 09.0121.130		DATE: 08/27/10		CONTRACT NO. 99422		
FED. ROAD DIST. NO.		ILLINOIS		FED. AID PROJECT		



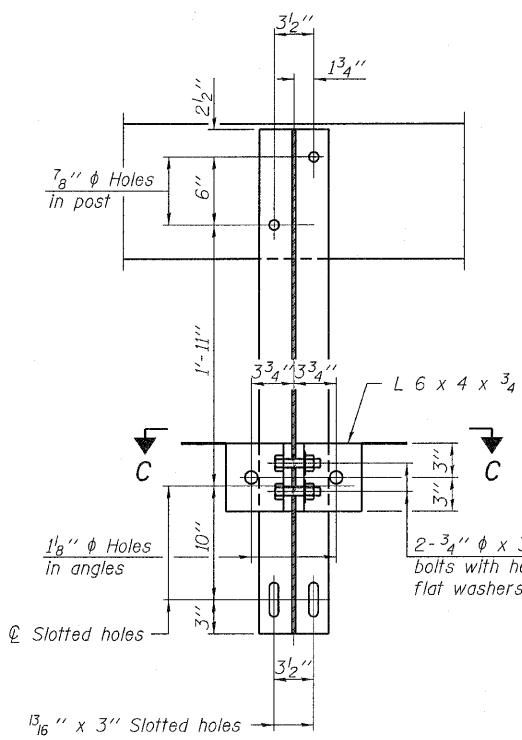
**VIEW A-A
ROUND HEAD BOLT**



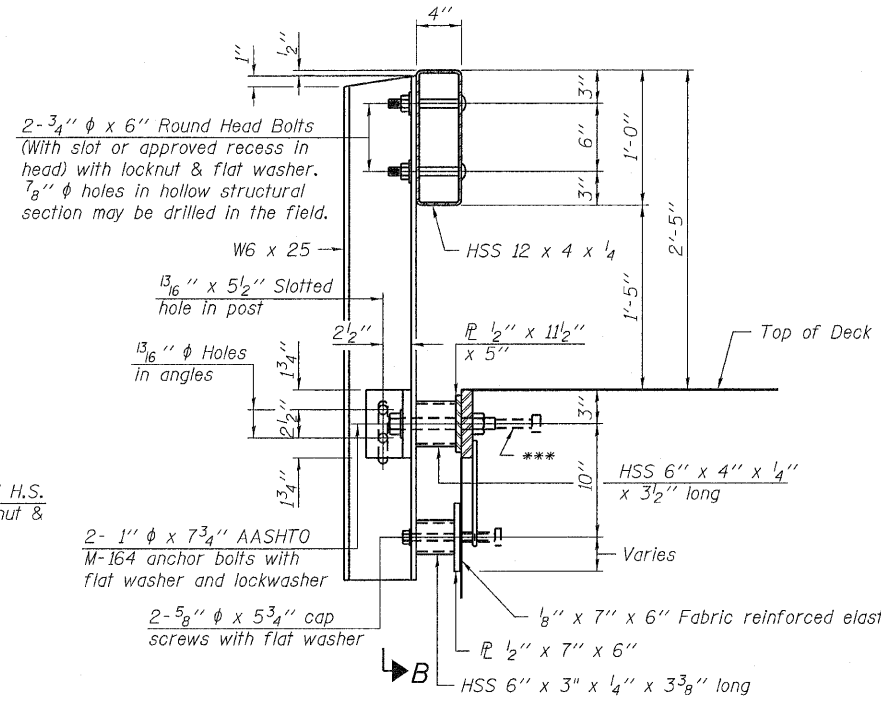
SECTION B-B



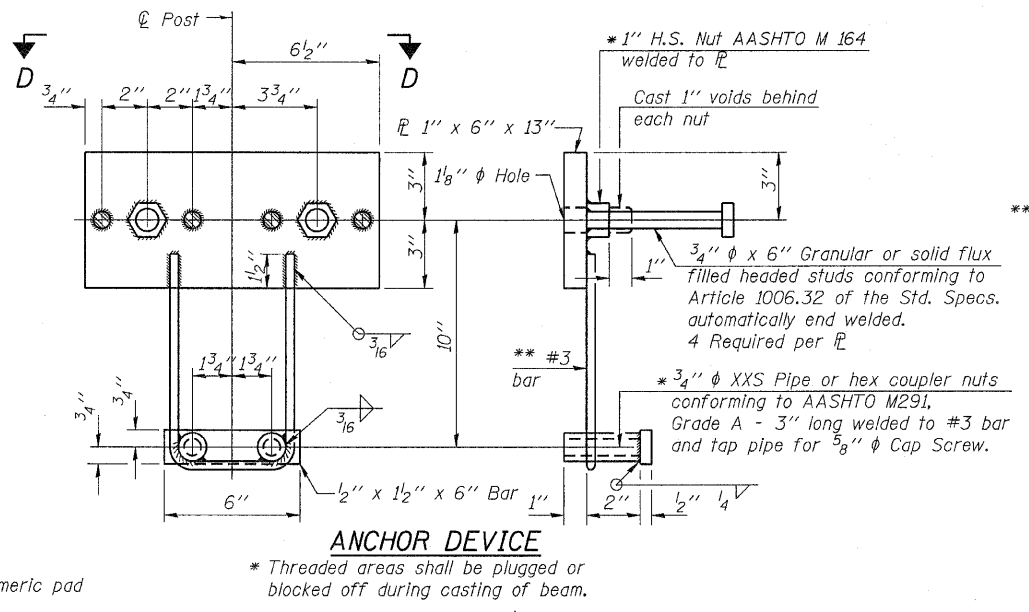
SECTION AT RAILING POST



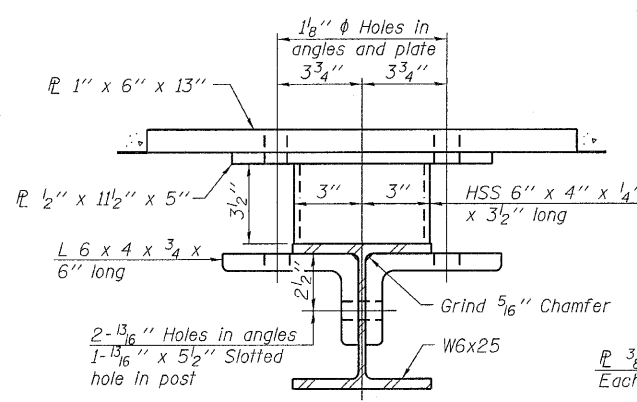
SECTION C-C



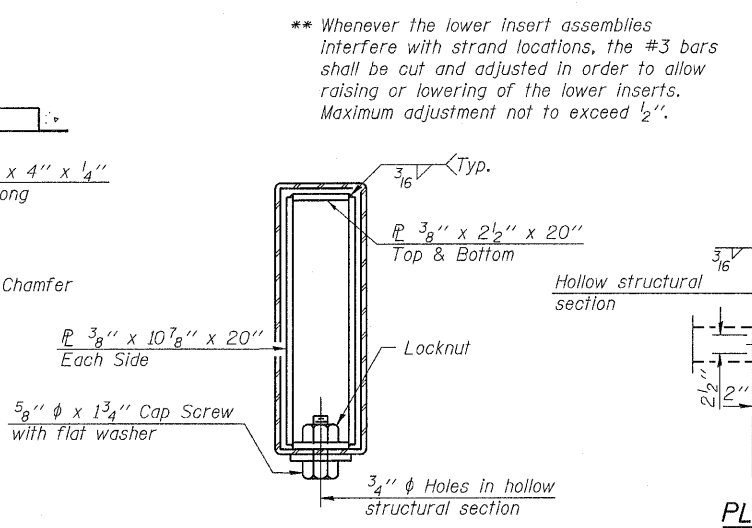
SECTION AT RAILING POST



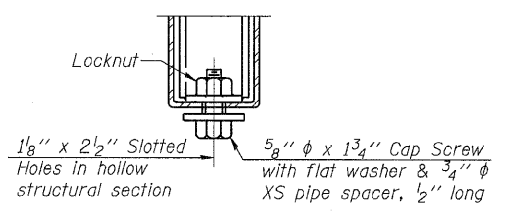
ANCHOR DEVICE



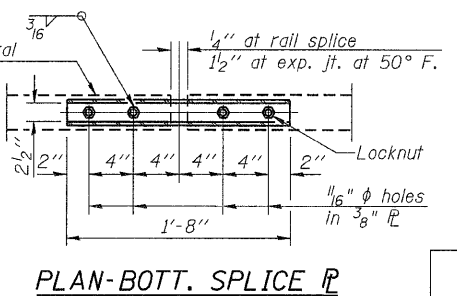
SECTION C-C



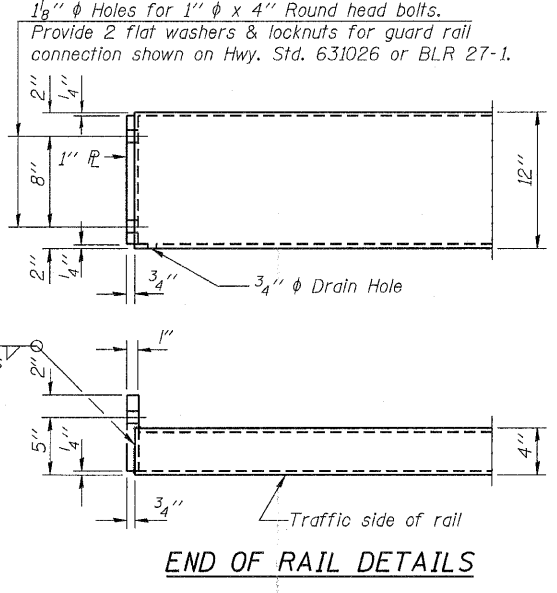
SECTIONS AT RAIL SPLICE



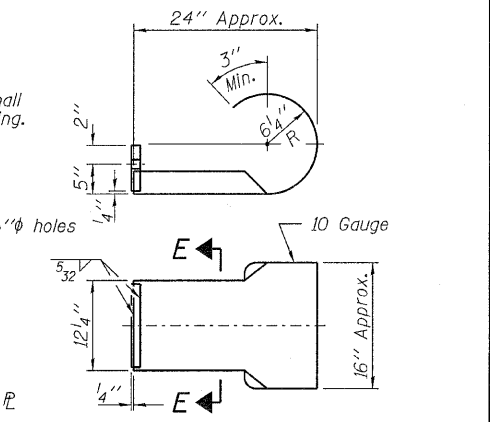
**RAIL SPLICE CONNECTION
AT EXPANSION JT.**



**PLAN-BOTT. SPLICE
TYPICAL**

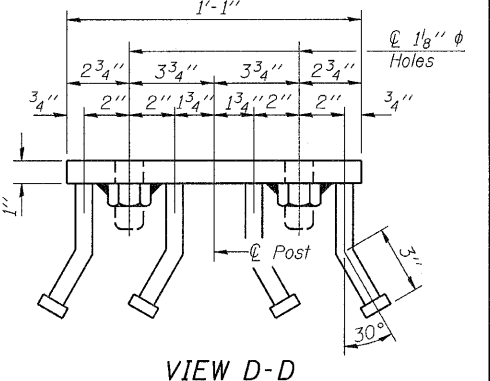


END OF RAIL DETAILS



**SECTION E-E
CURLED END SECTION DETAILS**

Notes:
All field drilled holes shall be coated with an approved zinc rich paint before erection. For multi-span bridges, sufficient 1/4 inch x 6 inch x 1-2 inch galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type S-1. All steel rail elements 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.



VIEW D-D

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	85

**RAILING DETAILS
STRUCTURE NO. 030-3128**

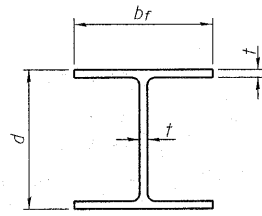
DESIGNED - A.S.L.
CHECKED - S.W.M.
DRAWN - D.T.M.
CHECKED - S.W.M.

R-23A

11-1-09 (10'-9" Maximum Post Spacing)

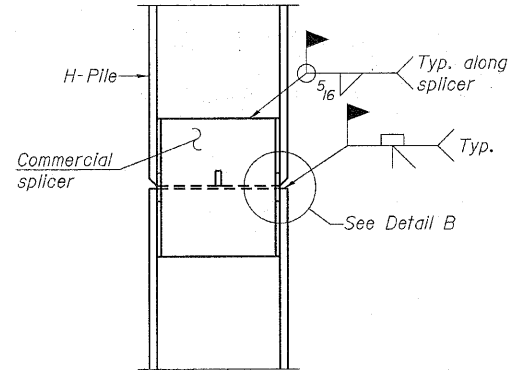
HAMPTON, LENZINI & RENWICK, INC.
CIVIL & STRUCTURAL ENGINEERS
LAND SURVEYORS
HLR
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
(217) 548-3400
PROJECT NUMBER: 09.0121.130 DATE: 08/27/10

SHEET NO. 5	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
8 SHEETS	1897	08-00073-00-BR	GALLATIN	14	11
FED. ROAD DIST. NO.			ILLINOIS FED. AID PROJECT		
CONTRACT NO. 99422					

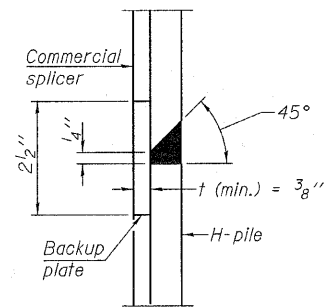


STEEL PILE TABLE

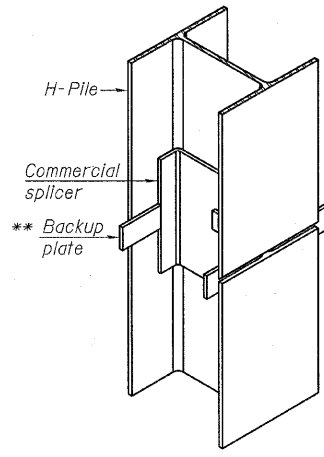
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	11/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53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

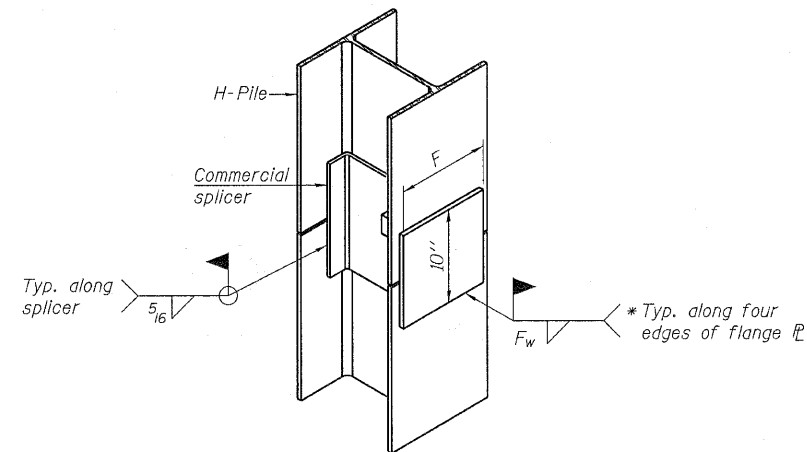


DETAIL "B"



ISOMETRIC VIEW

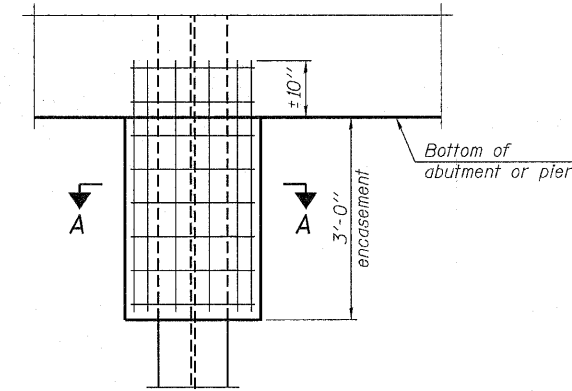
WELDED COMMERCIAL SPLICE



ISOMETRIC VIEW

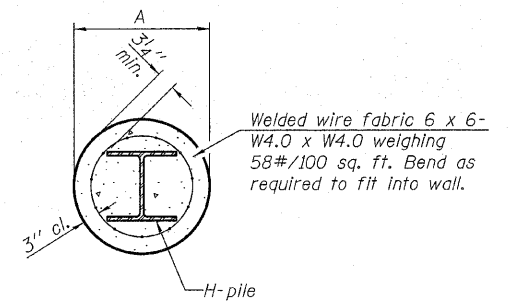
WELDED COMMERCIAL SPLICE ALTERNATE

- * 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.).



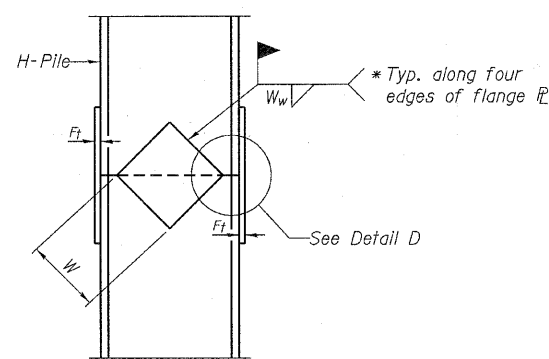
ELEVATION

PILE ENCASEMENT



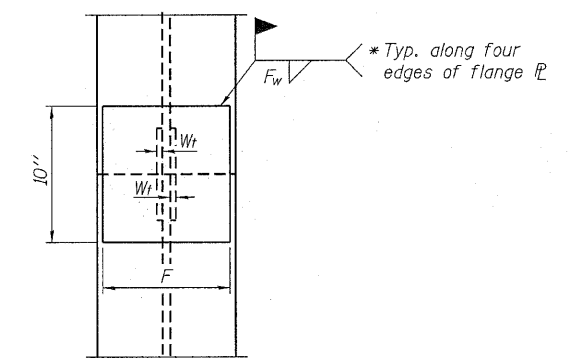
SECTION A-A

Note:
Forms for encasement may be omitted when soil conditions permit.

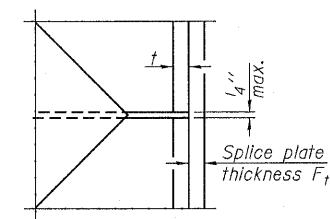


ELEVATION

WELDED PLATE FIELD SPLICE

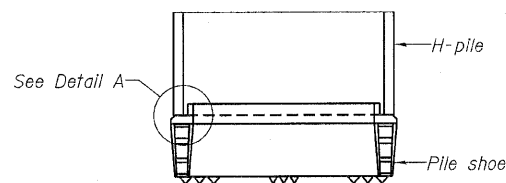


END VIEW



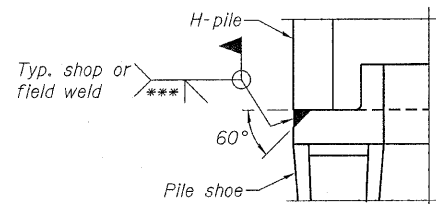
DETAIL D

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5 1/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5 1/8"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5 1/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5 1/8"	1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5 1/8"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5 1/8"	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"



ELEVATION

H-PILE SHOE ATTACHMENT



DETAIL A

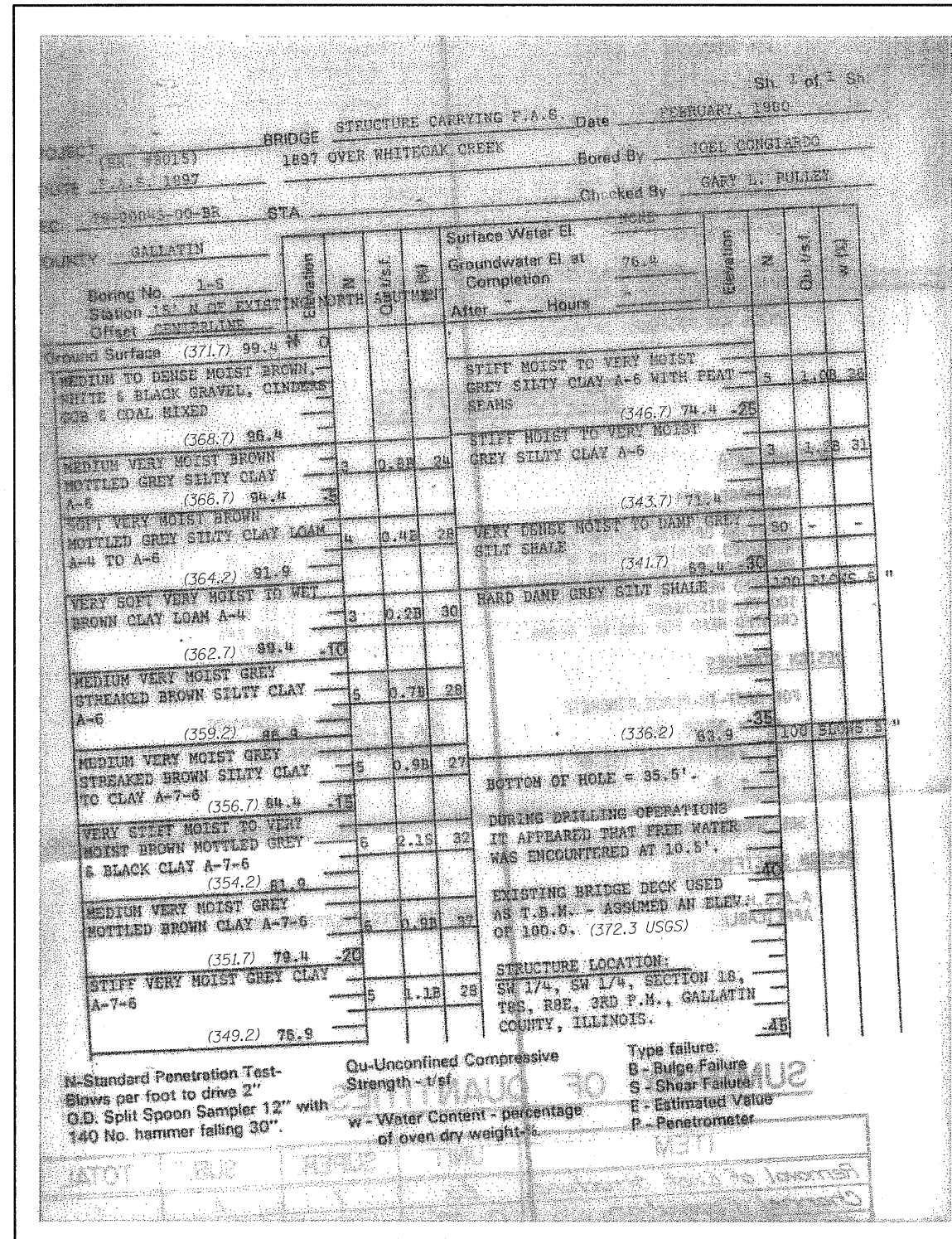
DESIGNED - A.S.L.
CHECKED - S.W.M.
DRAWN - D.T.M.
CHECKED - S.W.M.

F-HP 11-1-09

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

**HP PILE DETAILS
STRUCTURE NO. 030-3128**

HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS HLR 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400	SHEET NO. 7	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	8 SHEETS	1897	08-00073-00-BR	GALLATIN	14	13
	PROJECT NUMBER: 09.0121.130	DATE: 08/27/10	CONTRACT NO. 99422			
		FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		



BORING

BORINGS
STRUCTURE NO. 030-3128

DESIGNED - A.S.L.
CHECKED - S.W.M.
DRAWN - D.T.M.
CHECKED - S.W.M.

HAMPTON, LENZINI & RENWICK, INC. CIVIL & STRUCTURAL ENGINEERS LAND SURVEYORS HLR 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 (217) 546-3400	SHEET NO. 8	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	8 SHEETS	1897	08-00073-00-BR	GALLATIN	14	14
PROJECT NUMBER: 09.0121.130	DATE: 08/27/10	FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT				
CONTRACT NO. 99422						