

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 58	08-17127-00-BR	VERMILION	10	1
FED. ROAD DIST. NO.		ILLINOIS CONTRACT NO.	91438	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED HIGHWAY BRIDGE PROGRAM

PROJECT BROS-0183(304)
JOB C-95-328-10
SECTION 08-17127-00-BR
SIDELL ROAD DISTRICT
VERMILION COUNTY
T.R. 58
PROPOSED STRUCTURE NO. 092-5025

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	SUMMARY OF QUANTITIES AND GENERAL NOTES
3.	TYPICAL SECTIONS
4.	PLAN AND PROFILE
5.-7.	STATION CROSS SECTIONS
8.-10.	BRIDGE PLANS

HIGHWAY STANDARDS:
000001-05 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
515001-03 NAME PLATE FOR BRIDGES
701901-01 TRAFFIC CONTROL DEVICES
BLR 21-8 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

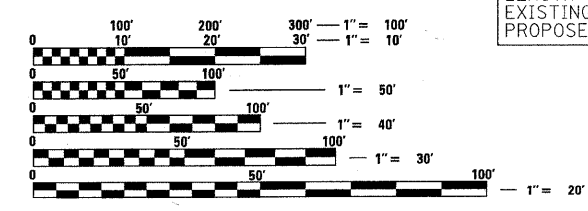


LOCATION OF SECTION INDICATED THUS: — —

UTILITIES

AMEREN CILCO NORTH
300 LIBERTY STREET
PEORIA, IL 61602
ATTN: KENT KOWALSKI

VERIZON NORTH
110 EAST MONROE
P.O. BOX 2675
BLOOMINGTON, IL 61701-2675
ATTN: MARY RUTH WILLIS

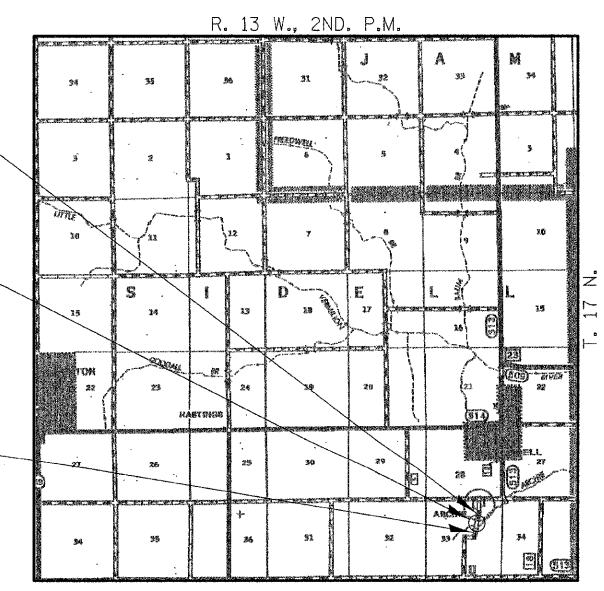


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

STA. 10+00
DOUBLE 14'x8' REINFORCED CONCRETE BOX CULVERT.
LENGTH = 32'-0"; SKEW = 0°
EXISTING STRUCTURE NO. 092-3064
PROPOSED STRUCTURE NO. 092-5025

IMPROVEMENT ENDS
STATION 10+50

IMPROVEMENT BEGINS
STATION 9+50



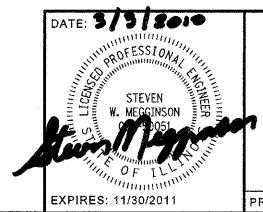
LOCATION MAP

APPROXIMATE SCALE:
NET LENGTH OF SECTION = 100 FEET = 0.019 MILES



FUNCTIONAL CLASSIFICATION: LOCAL ROAD (NON-URBAN 0-250 ADT)
DESIGN SPEED: 30 MPH
DESIGN TRAFFIC: 175 ADT (2005)

ILLINOIS DEPARTMENT OF TRANSPORTATION	
APPROVED	<i>March 4 2010</i> <i>Daylan R. Stuck</i> COUNTY ENGINEER
APPROVED	<i>March 6 2010</i> <i>Joe Cobb</i> ROAD COMMISSIONER
PASSED	<i>3/18 2010</i> <i>D. H. S.</i> DISTRICT FIVE ENGINEER OF LOCAL ROADS & STREETS
Releasing For Bid Based on Limited Review	<i>3/18 2010</i> <i>James C. Conroy</i> DEPUTY DIRECTOR OF HIGHWAYS REGION THREE ENGINEER STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



HAMPTON, LENZINI AND RENWICK, INC.
CIVIL ENGINEERS - STRUCTURAL ENGINEERS - LAND SURVEYORS
HLR
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
217.546.3400 www.hlrengineering.com
184.000959
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION

CONTRACT NO. 91438

PROJECT NUMBER: 09.0268.130 DATE: 02/05/10

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	CONSTRUCTION CODE X028-2A	
		UNIT	TOTAL
20200100	EARTH EXCAVATION	CU YD	35
20400800	FURNISHED EXCAVATION	CU YD	25
20700110	POROUS GRANULAR EMBANKMENT	TON	370
A 20900210	POROUS GRANULAR BACKFILL, SPECIAL	CU YD	57
A 25001000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.1
A 28101500	RIPRAP, SPECIAL	SQ YD	92
35101400	AGGREGATE BASE COURSE, TYPE B	TON	95
40300100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	90
40300300	BITUMINOUS MATERIALS (COVER AND SEAL COATS)	GALLON	240
40300500	COVER COAT AGGREGATE	TON	4
40300600	SEAL COAT AGGREGATE	TON	2
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	30400
* 50900205	STEEL RAILING, TYPE S1	FOOT	58
51500100	NAME PLATES	EACH	1
54003000	CONCRETE BOX CULVERTS	CU YD	114.1
67100100	MOBILIZATION	L SUM	1
A 70103700	TRAFFIC CONTROL COMPLETE	L SUM	1

A SEE SPECIAL PROVISIONS

* SPECIALTY ITEMS

EARTHWORK SCHEDULE							
LOCATION	EARTH EXCAVATION	CHANNEL EXCAVATION	SHRINKAGE FACTOR	PERCENT USED	EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT REQUIRED	EARTHWORK BALANCE
	CU.YD.	CU.YD.			CU.YD.	CU.YD.	CU.YD.
TR 58							
STA 9+50 TO STA 10+50	35		25.00%	100.00%	26	48	-22
CHANNEL EXCAVATION		0	25.00%	70.00%	0		0
TOTAL	35	0			26	48	-22
TOTAL USE	35						25

FURNISHED EXCAVATION = 25 CU YDS

GENERAL NOTES

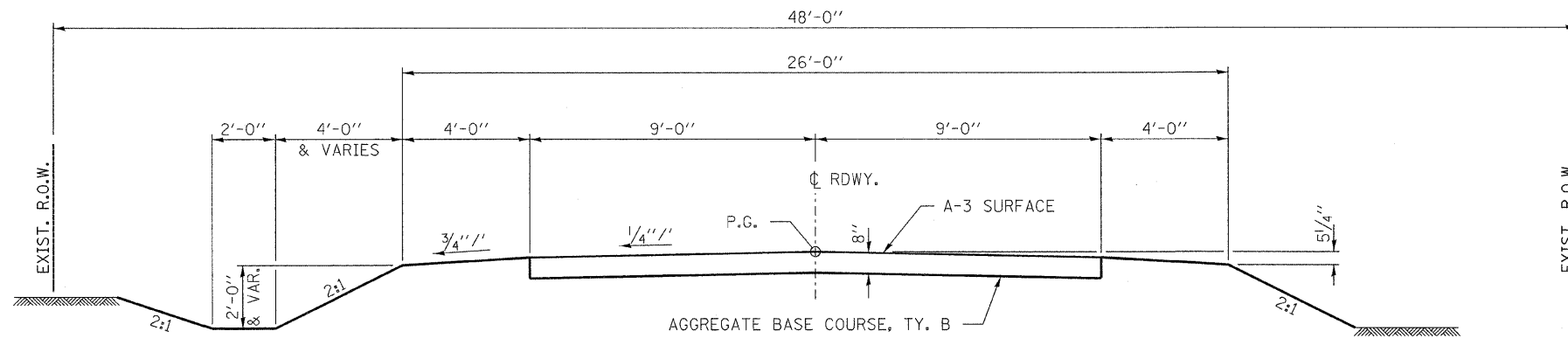
- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2007," THESE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- ALL CLEARING AND GRUBBING, FENCE REMOVAL AND REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. THE REMOVAL OF THE EXISTING PAVEMENT WILL BE PAID FOR AS EARTH EXCAVATION. ALL BITUMINOUS MATERIAL SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR IN A METHOD APPROVED BY THE ENGINEER. PROPER DISPOSAL OF BITUMINOUS MATERIAL SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE LOCATION OF EXISTING GAS MAINS, 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.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES.

RIPRAP, SPECIAL	1.75 TON/CU YD
AGGREGATE BASE COURSE, TYPE B	2.05 TON/CU YD
POROUS GRANULAR EMBANKMENT	2.00 TON/CU YD
BITUMINOUS MATERIALS	0.4 GALS/SQ YD
AGGREGATE COAT	20 POUNDS/SQ YD
- THE AREA TO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE R.O.W. AS DIRECTED BY THE ENGINEER.
SEEDING, CLASS 2 (SPECIAL) = 0.1 ACRES
- ALL EXCESS MATERIAL FROM EXCAVATION REQUIRED TO CONSTRUCT THE CULVERT SHALL BE WASTED BY THE CONTRACTOR.

ROADWAY SCHEDULE					
LOCATION	AGGREGATE BASE COURSE TYPE B, (8")	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (COVER AND SEAL COAT)	COVER COAT AGGREGATE	SEAL COAT AGGREGATE
	35101400 TON	40300100 GALLON	40300300 GALLON	40300500 TON	40300600 TON
TR 58					
STA 9+50 TO STA 10+50	91	89	240	4	2
TOTAL	91	89	240	4	2
USE	95	90	240	4	2

SEEDING SCHEDULE	
LOCATION	SEEDING, CLASS 2 (SPECIAL) 25001000
	ACRE
TR 58	
STA 9+25 TO STA 10+00	0.07
STA 10+00 TO STA 10+50	0.04
TOTAL PROJECT	0.11
USE	0.10

HORIZONTAL ALIGNMENT		
LOCATION	NORTHING	EASTING
P.O.T. STA 4+50.00	1,173,744.168	1,125,632.561
P.O.T. STA 15+50.34	1,174,825.425	1,125,836.621



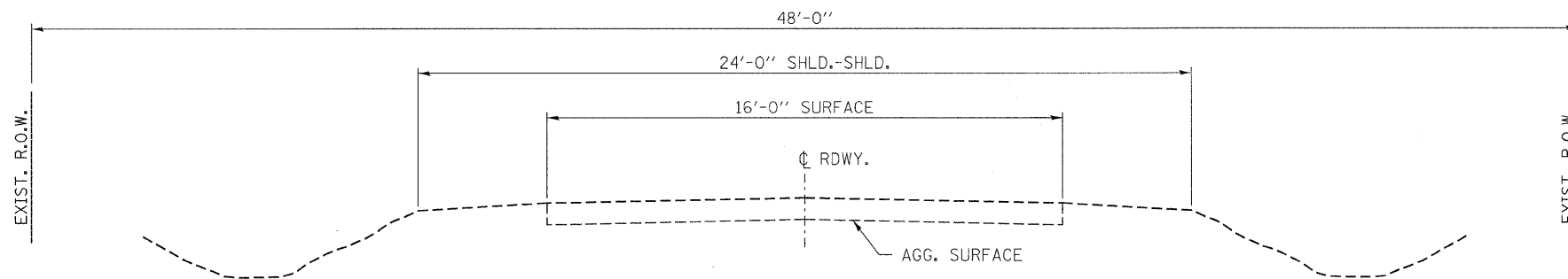
SUGGESTED CUT SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

TYPICAL CROSS SECTION

STA. 9+50 TO 10+50

TRANSITION FROM THE PROPOSED ROADWAY TO THE EXISTING
ROADWAY IS TO BE CONSTRUCTED FROM STA. 9+50 TO 10+00
AND STA. 10+00 TO 10+50.

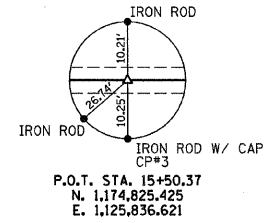
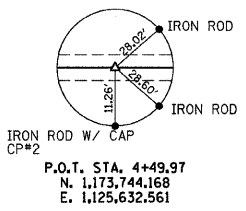
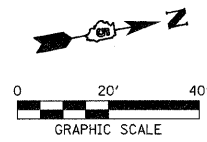
SUGGESTED FILL SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS



EXISTING CROSS SECTION

STA. 9+50 TO 10+50

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		DRAWN - D.A.B.	REVISED -			58	08-17127-00-BR	VERMILION	10	3		
	PLOT SCALE =	CHECKED - S.W.M.	REVISED -			SIDELL ROAD DISTRICT		CONTRACT NO. 91438				
	PLOT DATE = 3/3/2010	DATE - 02/05/10	REVISED -			SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.	ILLINOIS FED. AID PROJECT BROS-01831041



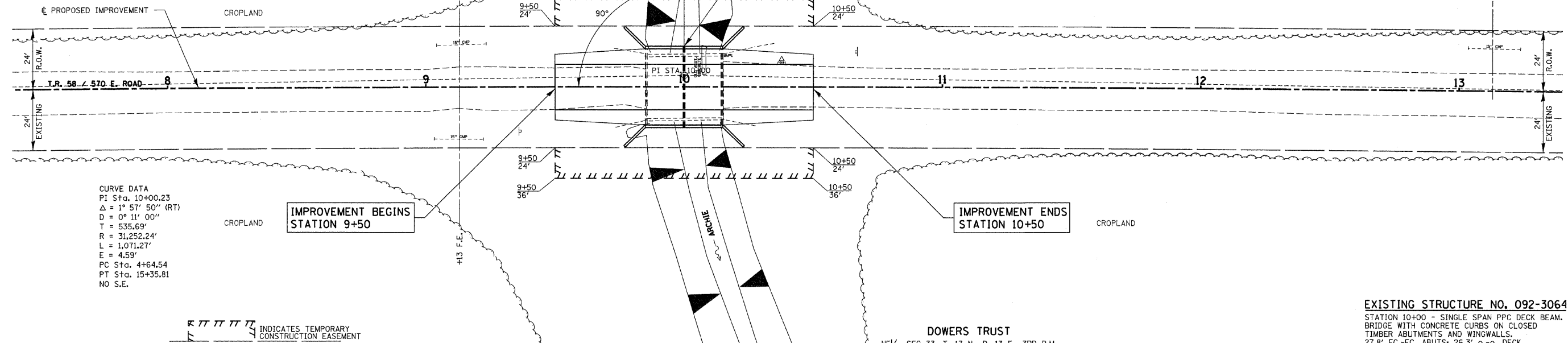
DOWERS TRUST
SW 1/4, NE 1/4, SEC 33, T. 17 N., R. 13 E., 3RD P.M.

STATION 10+00
DOUBLE 14'X8' REINFORCED CONCRETE
BOX CULVERT.
LENGTH = 32'-0"; SKEW = 0°
PROPOSED STRUCTURE NO. 092-5025

EXISTING STRUCTURE NO. 092-3064
STATION 10+00 - SINGLE SPAN PPC DECK BEAM
BRIDGE WITH CONCRETE CURBS ON CLOSED
TIMBER ABUTMENTS AND WINGWALLS.
27.8' FC-FC, ABUTS; 26.3' o.-o. DECK

DATE	
BY	
NO.	
PLANNING	
DESIGN	
CONSTRUCTION	
OPERATION	
MAINTENANCE	

DATE	
BY	
NO.	
PROFILING	
DESIGN	
CONSTRUCTION	
OPERATION	
MAINTENANCE	

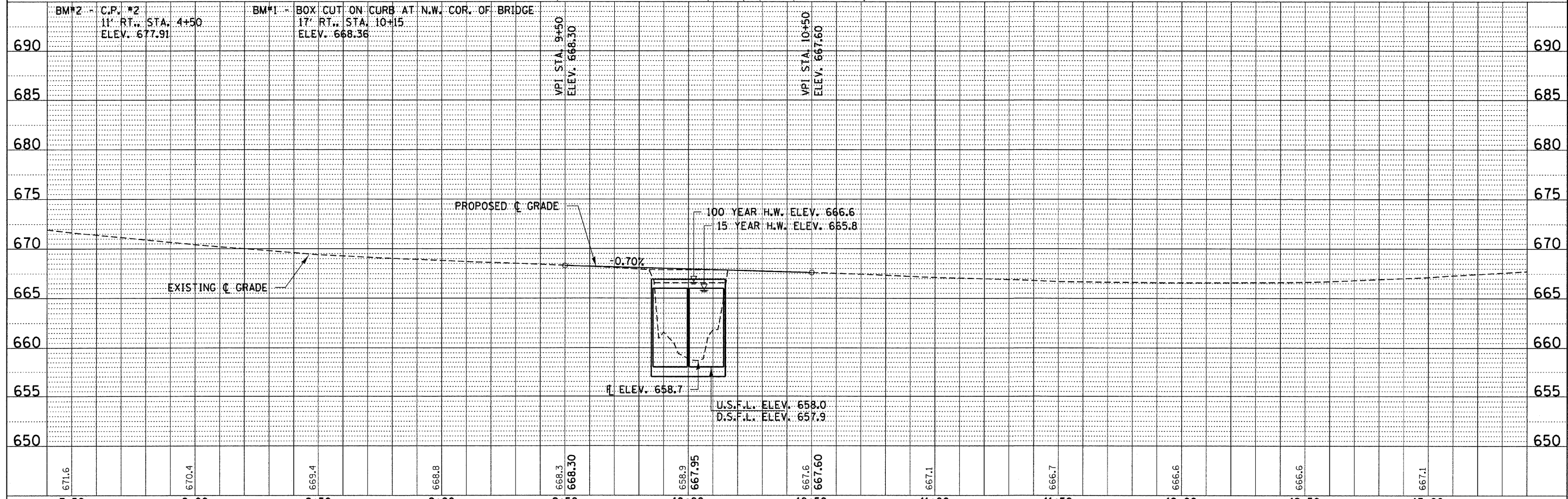


CURVE DATA
PI Sta. 10+00.23
Δ = 1° 57' 50" (RT)
D = 0° 11' 00"
T = 535.69'
R = 31,252.24'
L = 1,071.27'
E = 4.59'
PC Sta. 4+64.54
PT Sta. 15+35.81
NO S.E.

IMPROVEMENT BEGINS
STATION 9+50

IMPROVEMENT ENDS
STATION 10+50

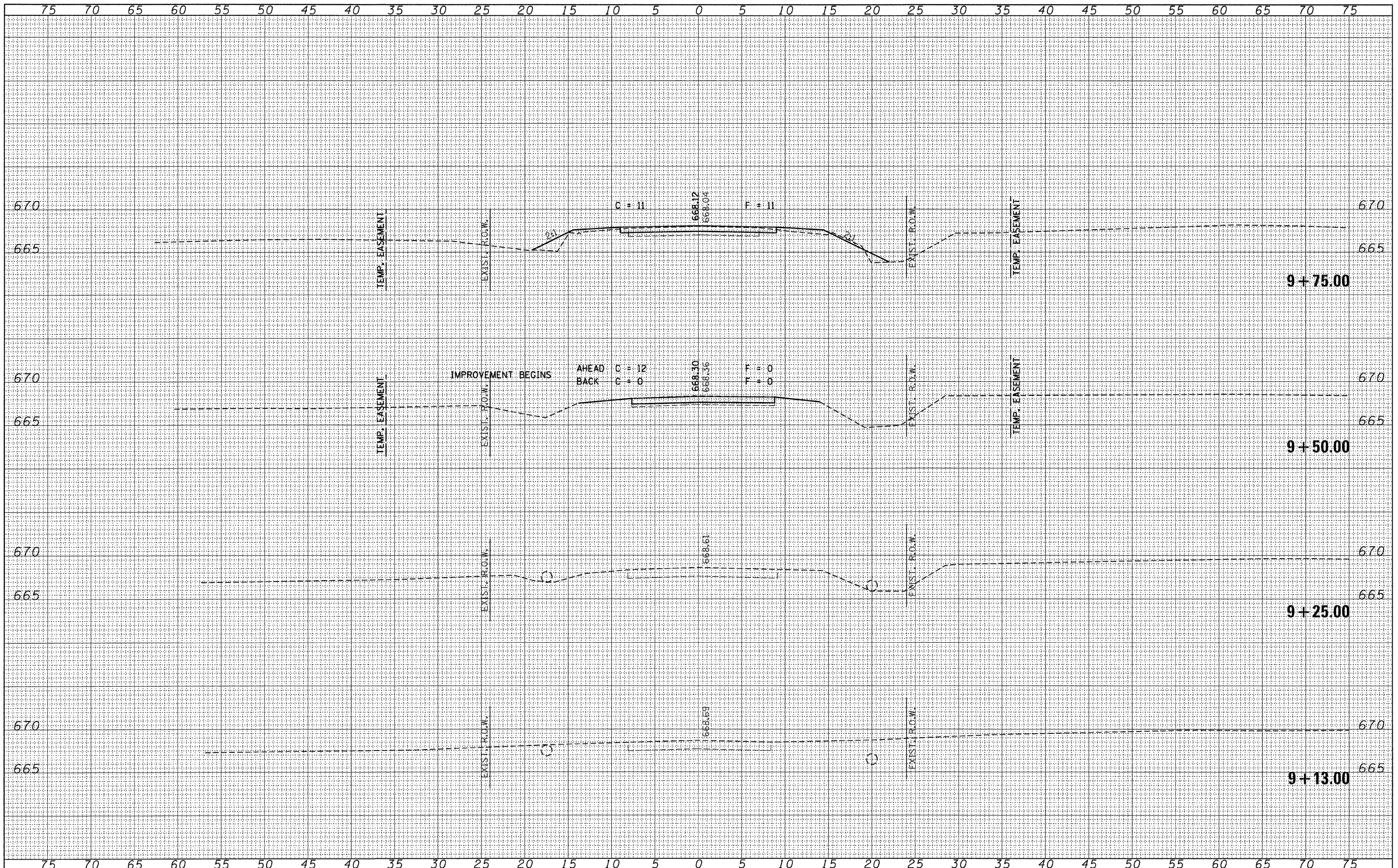
INDICATES TEMPORARY
CONSTRUCTION EASEMENT



FILE NAME = 090268-shr-pp1.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS VERMILION COUNTY HIGHWAY DEPARTMENT		PLAN & PROFILE 570 E. ROAD	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLLOT SCALE =	CHECKED - S.W.M.	REVISED -	58				08-17127-00-BR	VERMILION	10	4	
PLLOT DATE = 3/3/2010	DATE - 02/05/10	REVISED -	SIDELL ROAD DISTRICT				CONTRACT NO. 91438				
			ILLINOIS FED. AID PROJECT BR05-01833641								

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

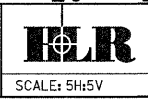
BY	DATE
BY	DATE
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
NO.	
AREAS CHECKED	



FILE NAME = 090268-sh1-ssa.dgn
 USER NAME =
 PLOT SCALE =
 PLOT DATE = 3/3/2010

DESIGNED - J.W.F.	REVISED -
DRAWN - D.T.M.	REVISED -
CHECKED - S.W.M.	REVISED -
DATE - 02/05/10	REVISED -

STATE OF ILLINOIS
 VERMILION COUNTY HIGHWAY DEPARTMENT

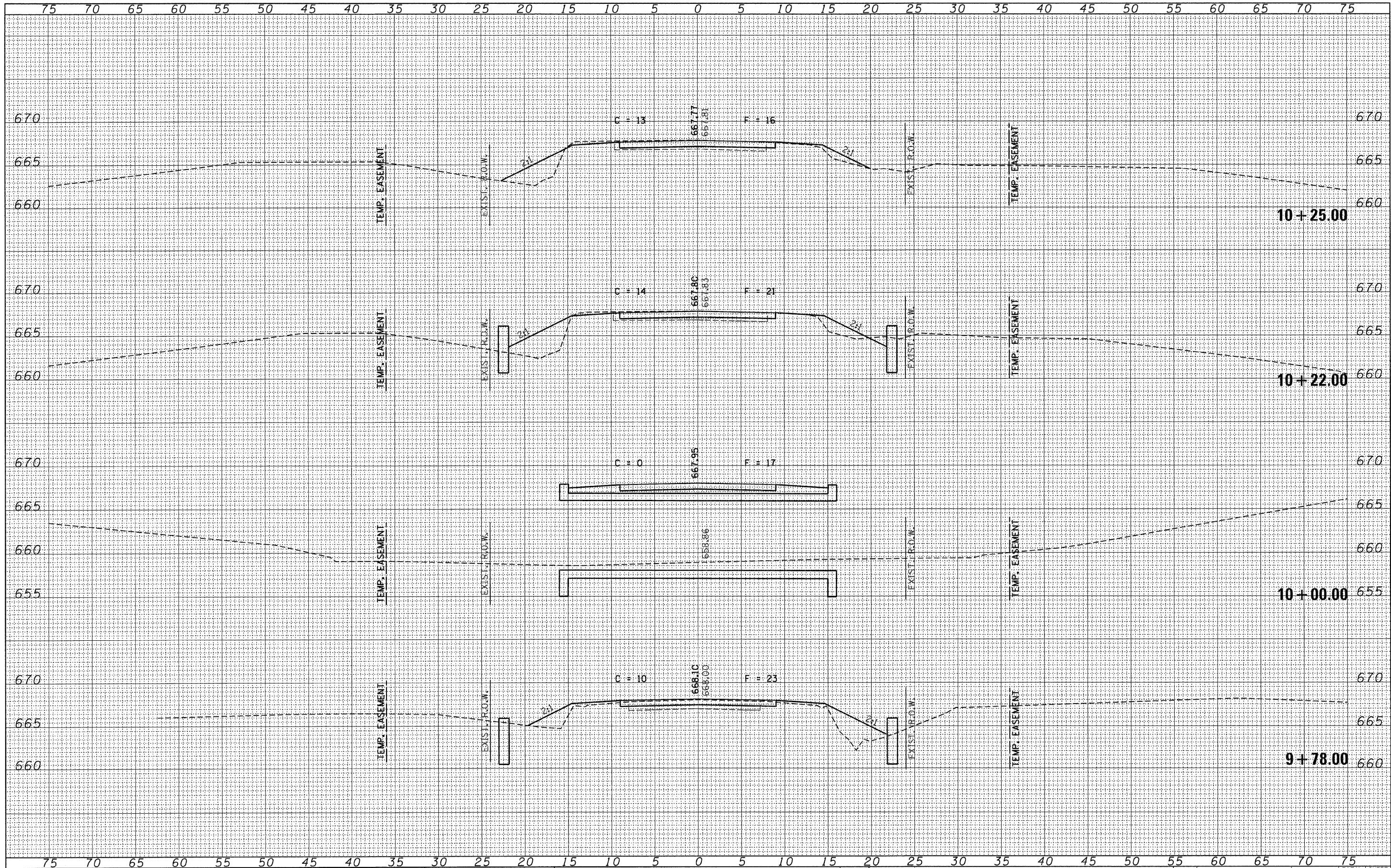


SCALE: 5H:5V
 SHEET NO. OF SHEETS
 CROSS SECTIONS
 570 E. ROAD
 STA. 9+13.00 TO STA. 9+75.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
58	08-17127-00-BR	VERMILION	10	5
SIDELL ROAD DISTRICT		CONTRACT NO. 91438		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT BR05-01831304		

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

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



FILE NAME = 090268-sht-axs.dgn
 USER NAME =
 PLOT SCALE =
 PLOT DATE = 3/3/2010

DESIGNED - J.W.F.	REVISED -
DRAWN - D.T.M.	REVISED -
CHECKED - S.W.M.	REVISED -
DATE - 02/05/10	REVISED -

STATE OF ILLINOIS
 VERMILION COUNTY HIGHWAY DEPARTMENT



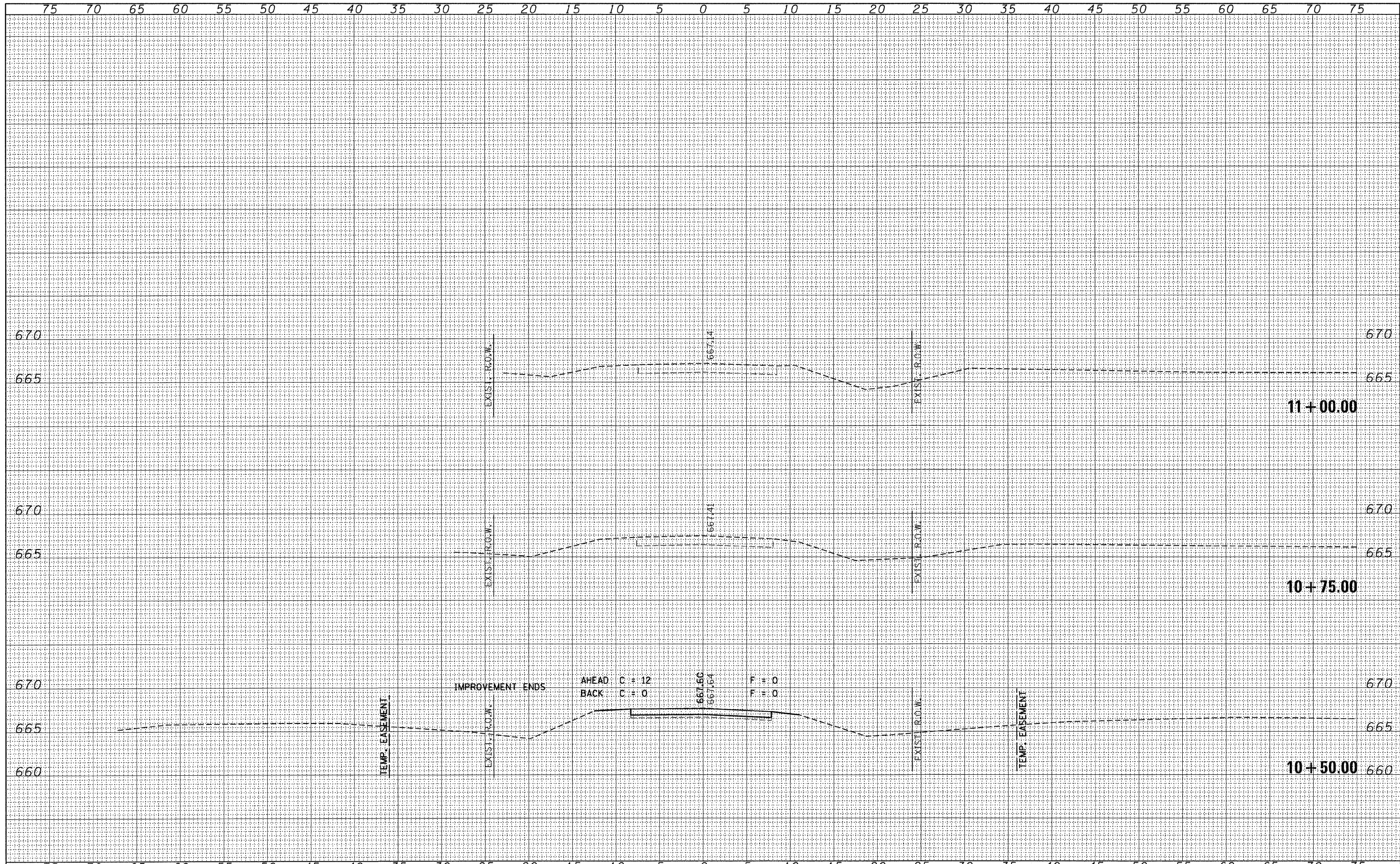
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 SHEET NO. OF SHEETS
 STA. 9+78.00 TO STA. 10+25.00

CROSS SECTIONS
 570 E. ROAD

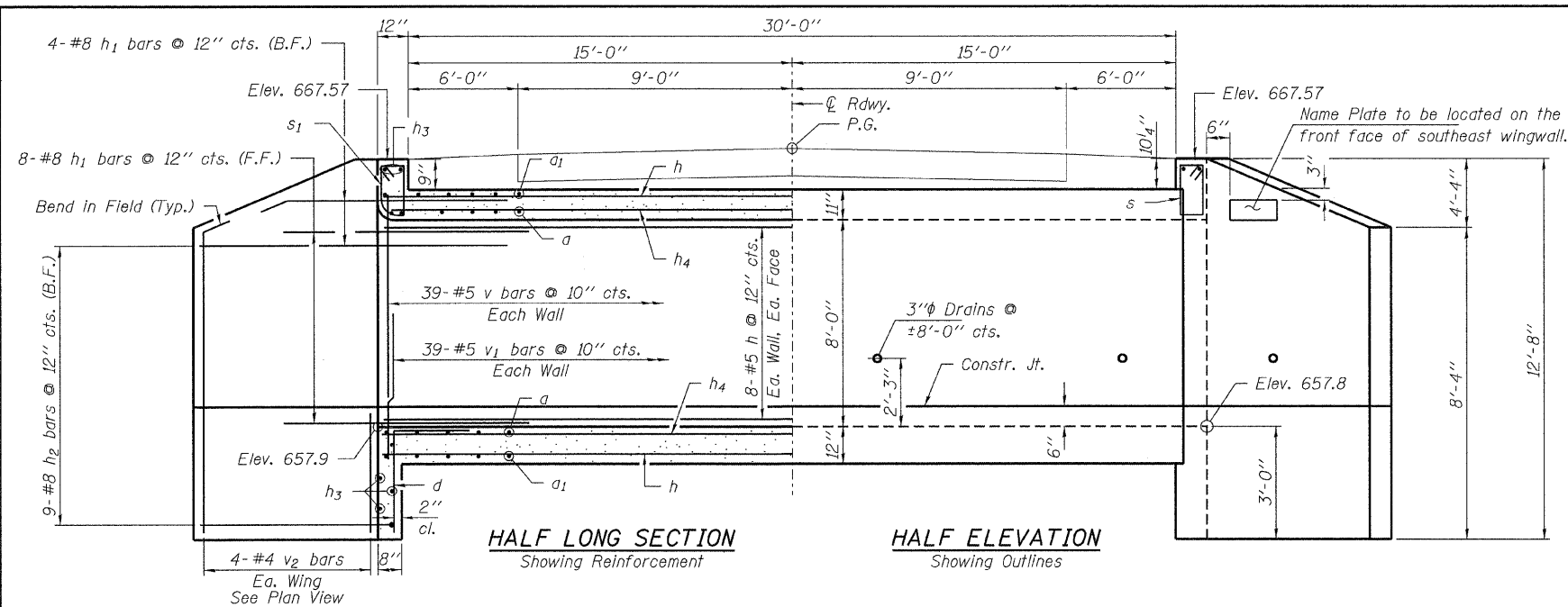
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58	08-17127-00-BR	VERMILION	10	6
SIDELL ROAD DISTRICT		CONTRACT NO. 91438		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT BROS-01833041		

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

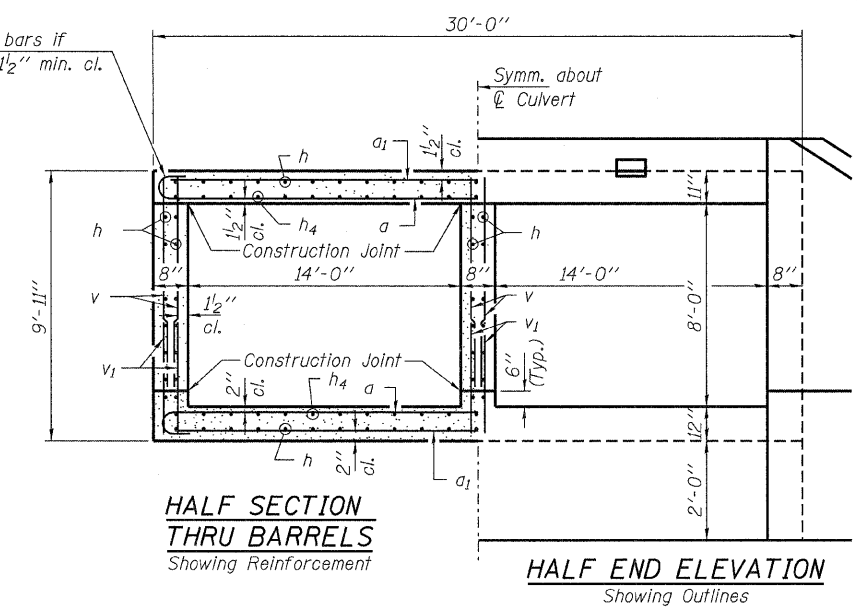
ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK NO.	PLOTTED TEMPLATE		
	AREAS CHECKED		



FILE NAME = 090268-sh1-exa.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS VERMILION COUNTY HIGHWAY DEPARTMENT		CROSS SECTIONS		T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - D.T.M.	REVISED -			58	08-17127-00-BR	VERMILION	10	7		
		CHECKED - S.W.M.	REVISED -			SIDELL ROAD DISTRICT				CONTRACT NO. 91438		
		DATE - 02/05/10	REVISED -			SCALE: 5H:5V		SHEET NO. OF SHEETS		STA. 10+50.00 TO STA. 11+00.00		FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT BROS-0183304



Tilt hook of a bars if necessary for 1/2" min. cl.



HALF SECTION THRU BARRELS Showing Reinforcement

HALF END ELEVATION Showing Outlines

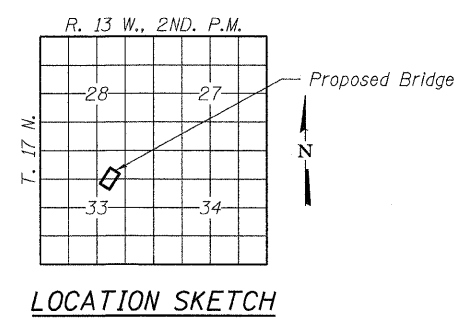
NOTES

Exposed edges shall be beveled 3/4".
 For backfilling and embankment, see Standard Specifications, except that porous granular embankment shall be placed as shown in backfill detail for the full length of the culvert.
 Reinforcement bars shall conform to the requirements of AASHTO M-31, or M-322 Grade 60.
 It shall be the responsibility of the Contractor to divert flow during construction in order to keep construction areas free of water. The method of water diversion shall be subject to the approval of the Engineer and shall be included in the cost of Concrete Box Culverts.
 All construction joints shall be bonded.
 Precast concrete box culverts will not be allowed.
 All bars shall be epoxy coated.

BILL OF MATERIAL

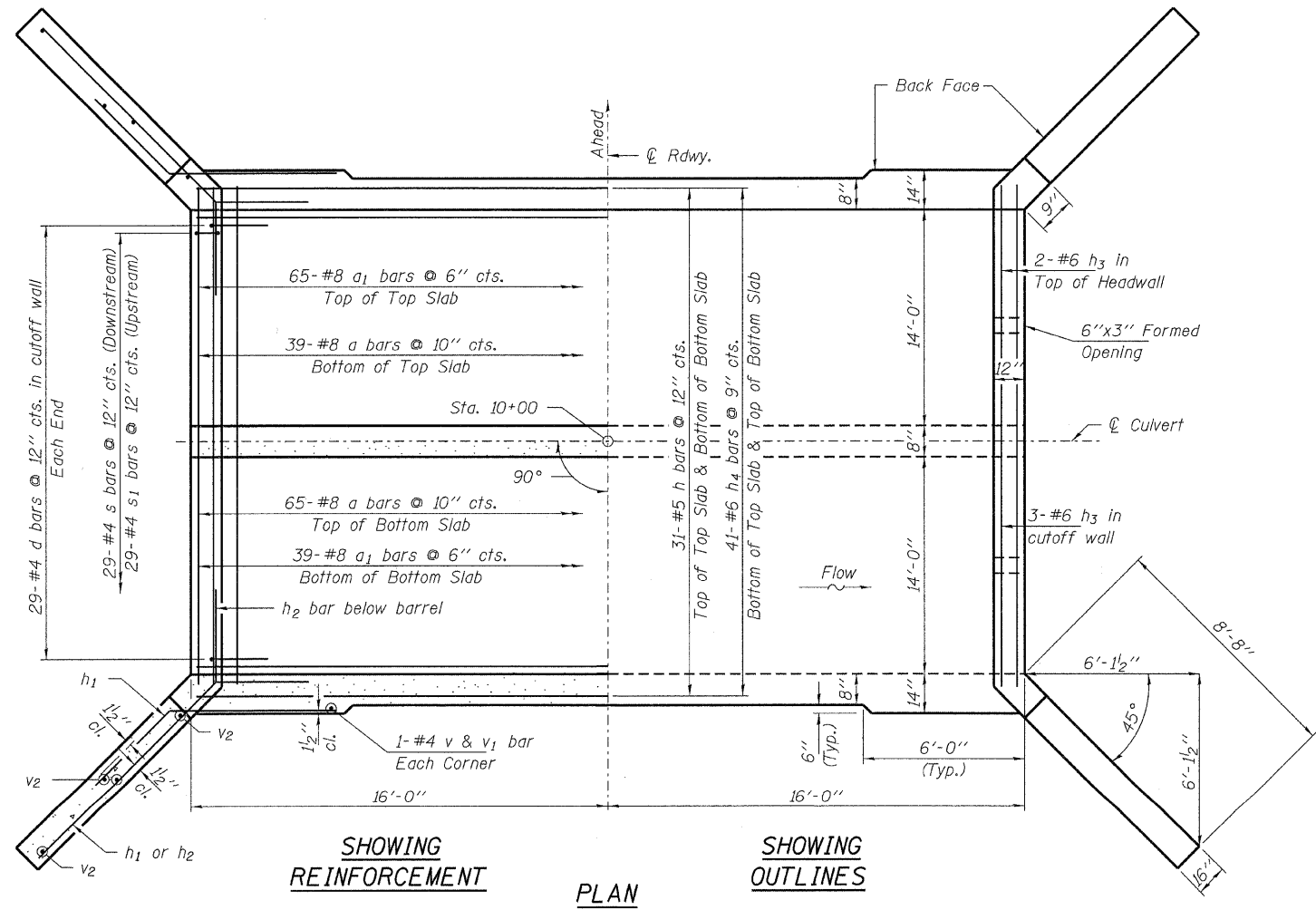
Bar	No.	Size	Length	Shape
a	104	#8	31'-6"	U
a1	104	#8	29'-8"	—
d	58	#4	4'-6"	L
h	110	#5	31'-8"	—
h1	48	#8	8'-0"	—
h2	36	#8	12'-5"	—
h3	10	#6	29'-8"	—
h4	82	#6	31'-8"	—
s	29	#4	5'-3"	□
s1	29	#4	4'-11"	□
v	238	#5	8'-3"	—
v1	238	#5	2'-8"	—
v2	16	#4	12'-4"	—
Riprap, Special		Sq. Yd.	92	
Concrete Box Culverts		Cu. Yd.	114.1	
Reinforcement Bars, Epoxy Coated		Pounds	30,400	
Porous Granular Embankment		Ton	370	
Name Plates		Each	1	
Porous Granular Backfill, Special		Cu. Yd.	57	

**CULVERT DETAILS
STRUCTURE NO. 092-5025**



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

Steven W. Mezzanese 9/5/2010
 ILLINOIS STRUCTURAL NO. 081-6064 Expires 11-30-2010



SHOWING REINFORCEMENT PLAN

SHOWING OUTLINES

DESIGNED	A.S.L.
CHECKED	S.W.M.
DRAWN	D.A.B.
CHECKED	S.W.M.

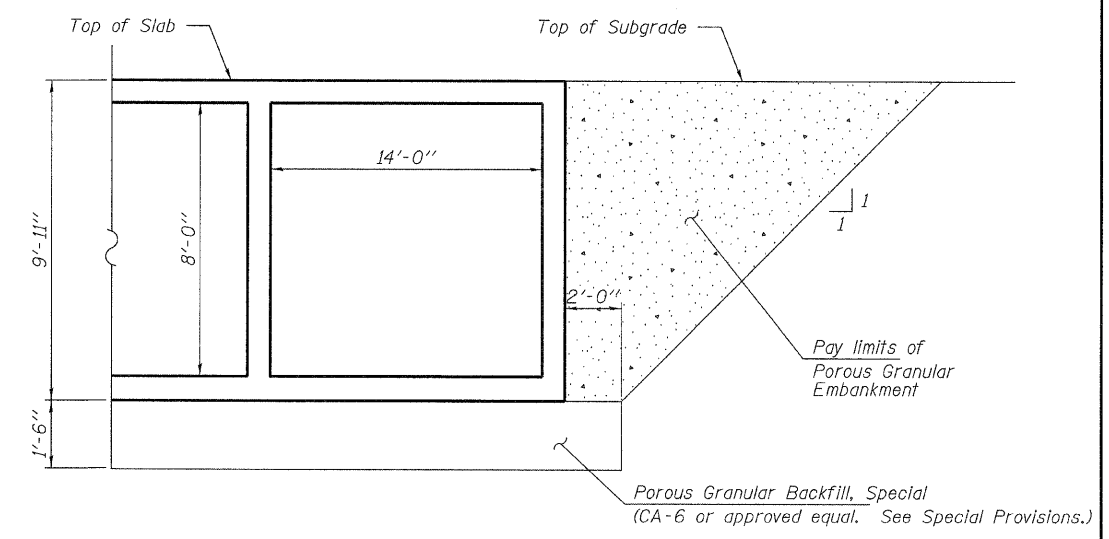
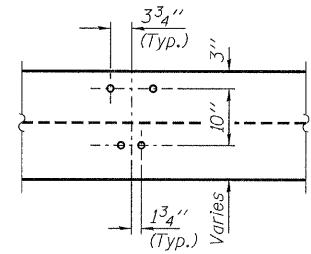
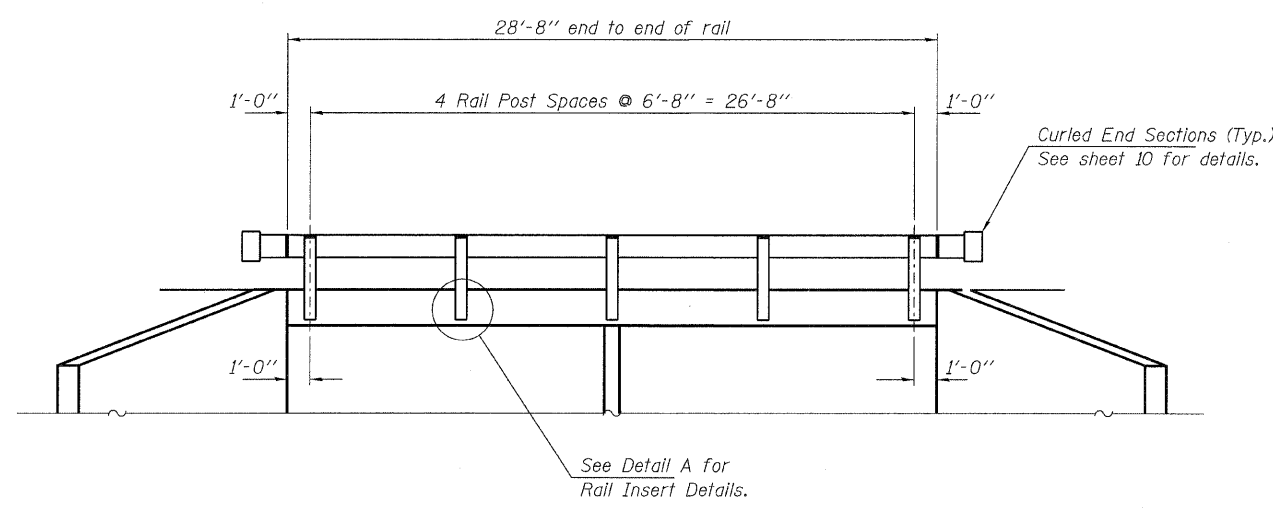
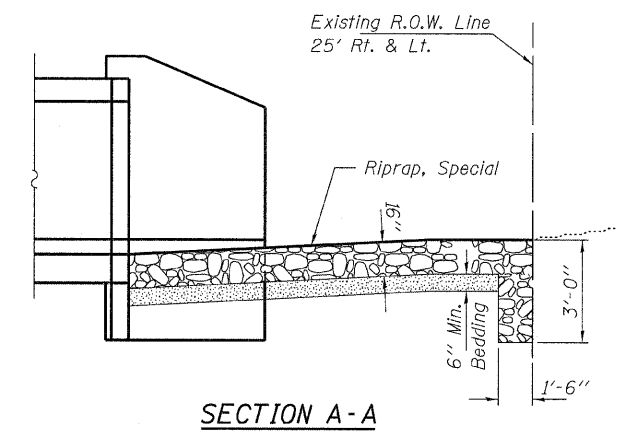
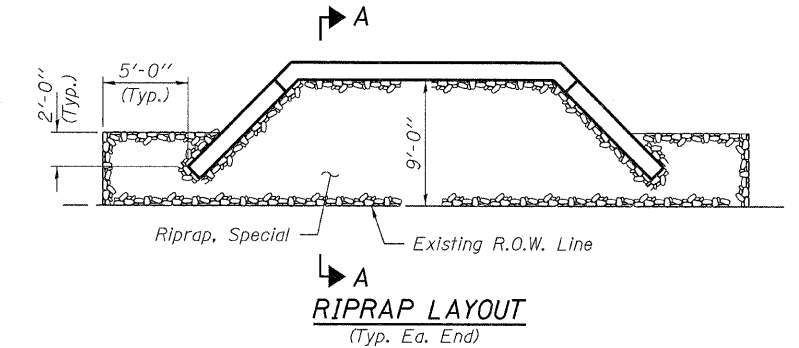
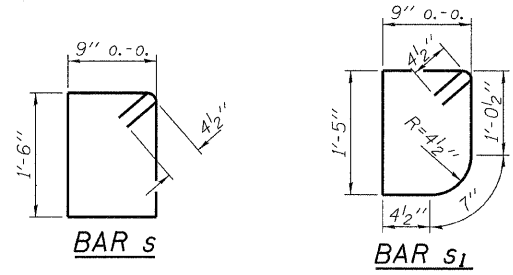
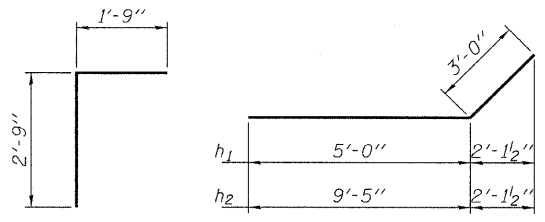
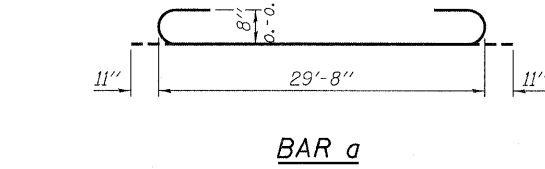
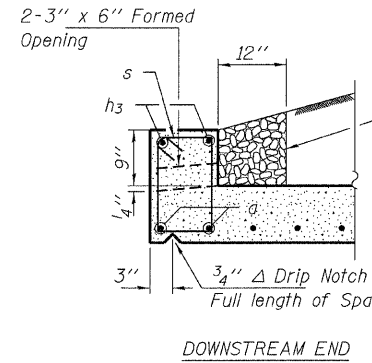
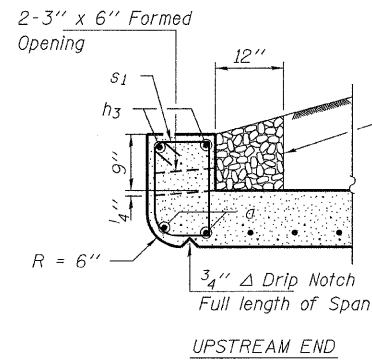
DESIGN STRESSES
 $f'c = 3,500 \text{ psi}$
 $f_y = 60,000 \text{ psi (Reinf.)}$
LOADING HL-93

Design Specifications: 2007 AASHTO LRFD with all applicable interims.

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

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
58	08-17127-00-BR	VERMILION	10	8
SIDELL ROAD DISTRICT		CONTRACT NO. 91438		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT BROS-0183(304)		

PROJECT NUMBER: 09.0288.130 DATE: 02/05/10



WATERWAY INFORMATION

Drainage Area = 5.13 Sq. Mi. Existing Low Grade Elev. 666.4 @ Sta. 12+00 Proposed Low Grade Elev. 666.4 @ Sta. 12+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Natural H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	590	160	210	665.60	0.30	0.25	665.90	665.85
Base	15	670	170	220	665.80	0.41	0.38	666.21	666.18
Max. Calc.	100	1090	190	220	666.59	0.31	0.30	666.90	666.89
	500	1500	190	220	667.05	0.42	0.36	667.47	667.41

10 Year Velocity through Existing Bridge = 3.7 fps 10 Year Velocity through Proposed Bridge = 2.8 fps

ARCHIE CREEK
BUILT 20__ BY
VERMILION COUNTY
SEC. 08-17127-00-BR
SIDELL ROAD DISTRICT
STR. NO. 092-5025
LOADING HL-93

NAME PLATE
See Std. 515001

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

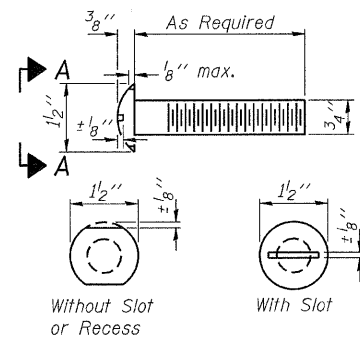
HAMPTON, LENZINI AND RENWICK, INC.
CIVIL ENGINEERS - STRUCTURAL ENGINEERS - LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
217.546.3400 www.hlrengineering.com

184.000959
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION

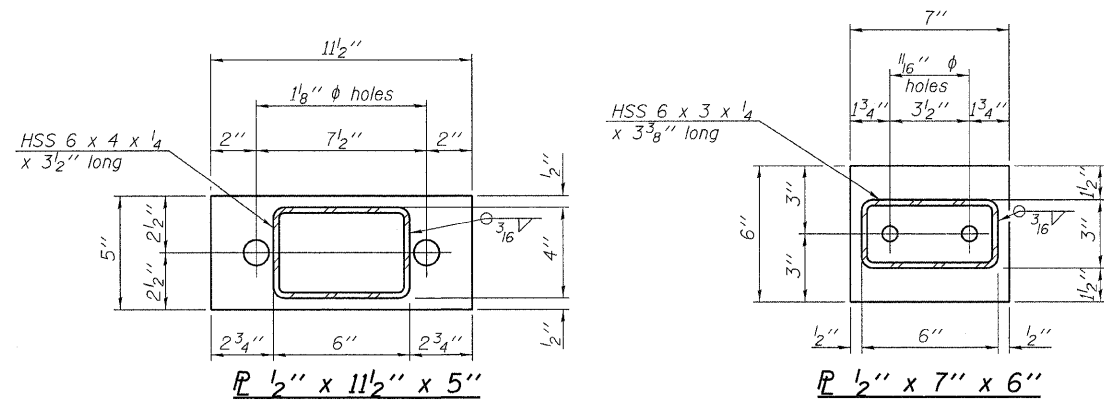
PROJECT NUMBER: 09.0268.130 DATE: 02/05/10

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
58	08-17127-00-BR	VERMILION	10	9
SIDELL ROAD DISTRICT		CONTRACT NO. 91438		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT BROS-0183(304)		

**CULVERT DETAILS
STRUCTURE NO. 092-5025**

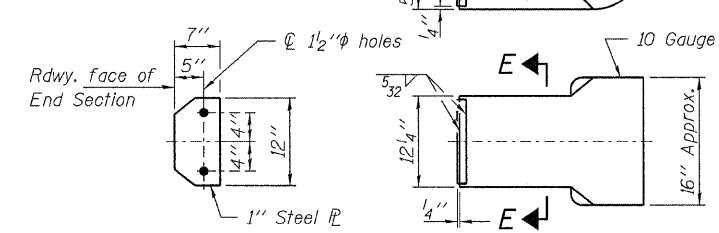


**VIEW A-A
ROUND HEAD BOLT**

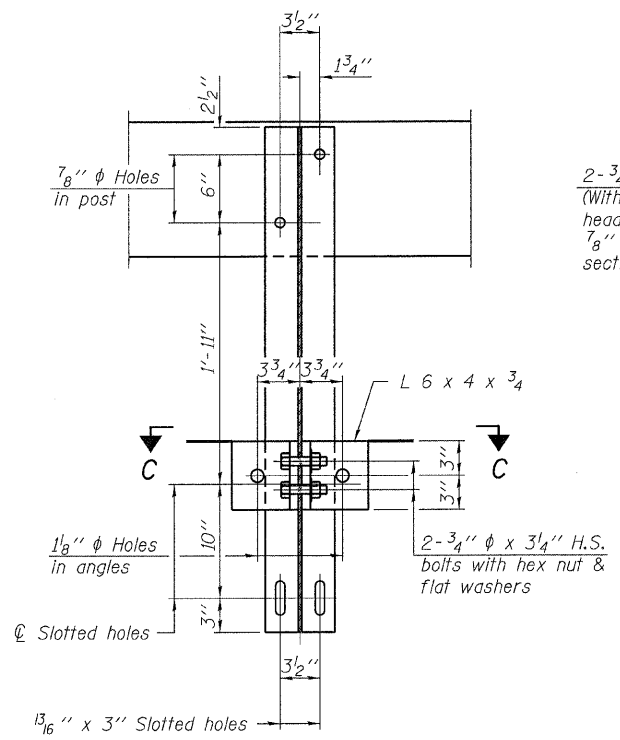


1/2" x 11 1/2" x 5" **1/2" x 7" x 6"**

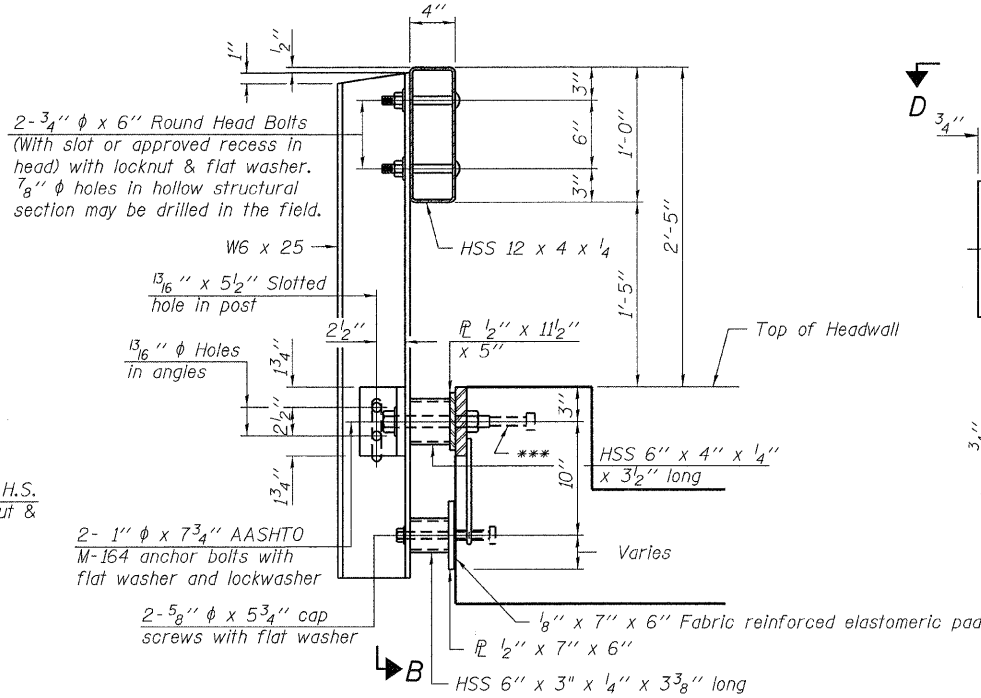
Note: Cast of curled end sections shall be included with the Steel Railing. (4 Required)



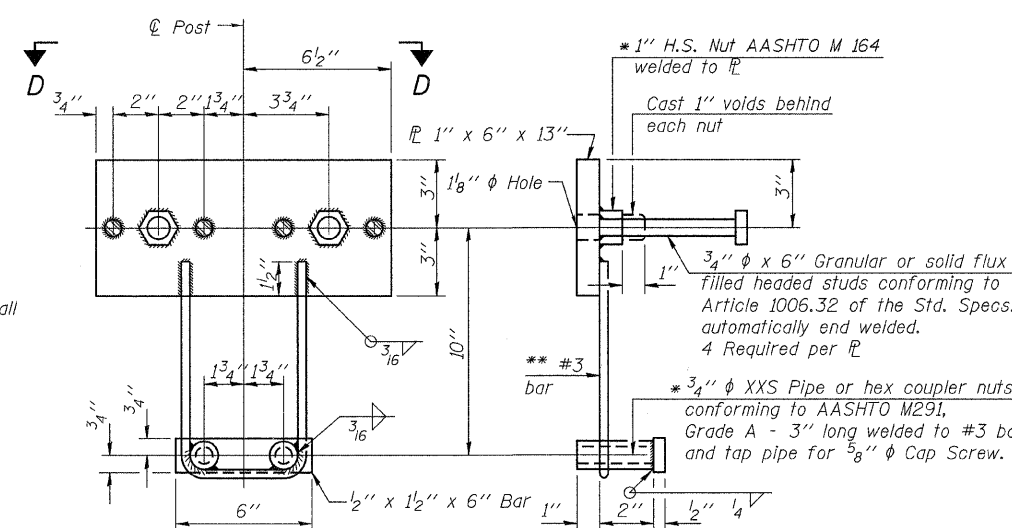
SECTION E-E CURLED END SECTION DETAILS



SECTION B-B

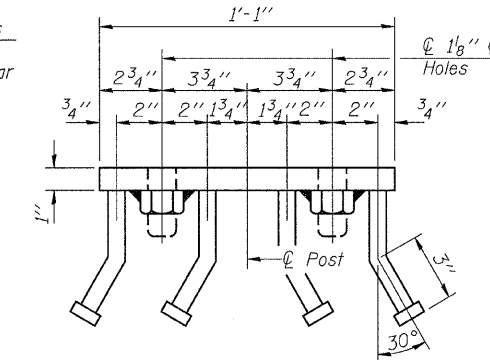


SECTION AT RAILING POST

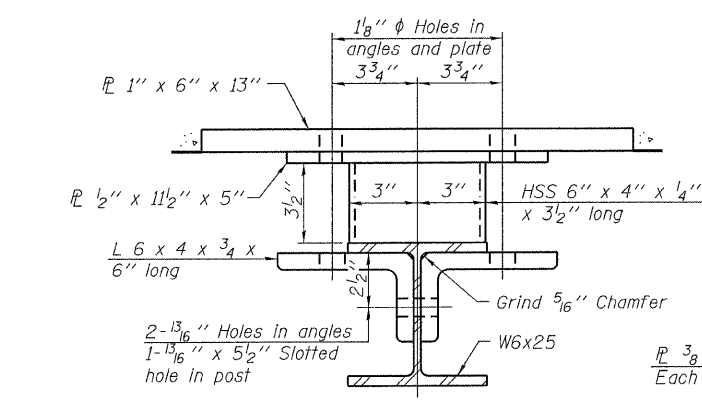


ANCHOR DEVICE

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. Cast 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.

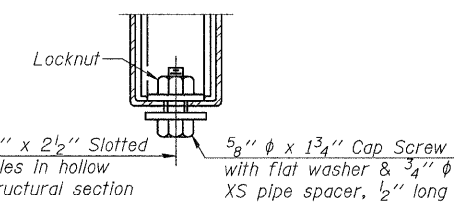


VIEW D-D

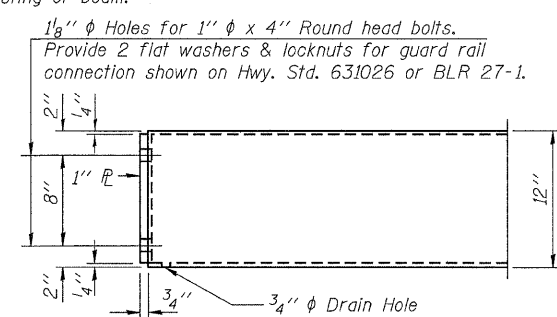


SECTION C-C

** 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".



RAIL SPLICE CONNECTION AT EXPANSION JT.



END OF RAIL DETAILS

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	58

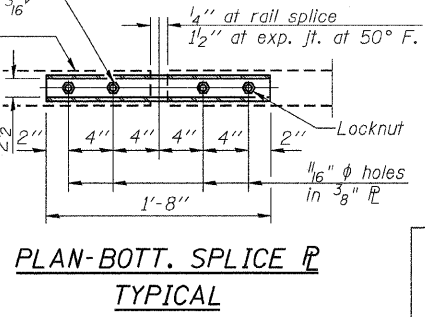
**STEEL RAILING, TYPE S-1
STRUCTURE NO. 092-5025**

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

R-23A

11-1-09

(10'-9" Maximum Post Spacing)



PLAN-BOTT. SPLICE TYPICAL

HAMPTON, LENZINI AND RENWICK, INC.
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PROJECT NUMBER: 09.0288.130 DATE: 02/05/10

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
58	08-17127-00-BR	VERMILION	10	10
SIDELL ROAD DISTRICT		CONTRACT NO. 91438		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT BROS-0183(304)		