

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 225	08-14136-00-BR	VERMILION	21	1
FED. ROAD DIST. NO.		ILLINOIS CONTRACT NO. 91457		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED
HIGHWAY BRIDGE PROGRAM**

PROJECT BROS-0183 (311)
SECTION 08-14136-00-BR
OAKWOOD ROAD DISTRICT
VERMILION COUNTY
T.R. 225 /2050N
PROPOSED STRUCTURE NO. 092-3513
JOB NO. C-95-319-11

INDEX OF SHEETS

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

HIGHWAY STANDARDS:

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
515001-03	NAME PLATE FOR BRIDGES
630301-05	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701901-01	TRAFFIC CONTROL DEVICES
BLR 21-8	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 27-1	TRAFFIC BARRIER TERMINAL, TYPE 5A

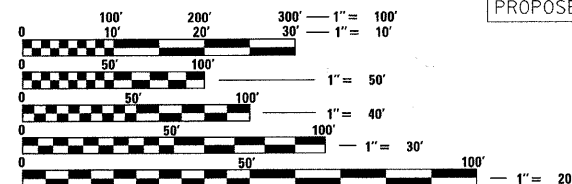


LOCATION OF SECTION INDICATED THUS: ———

UTILITIES

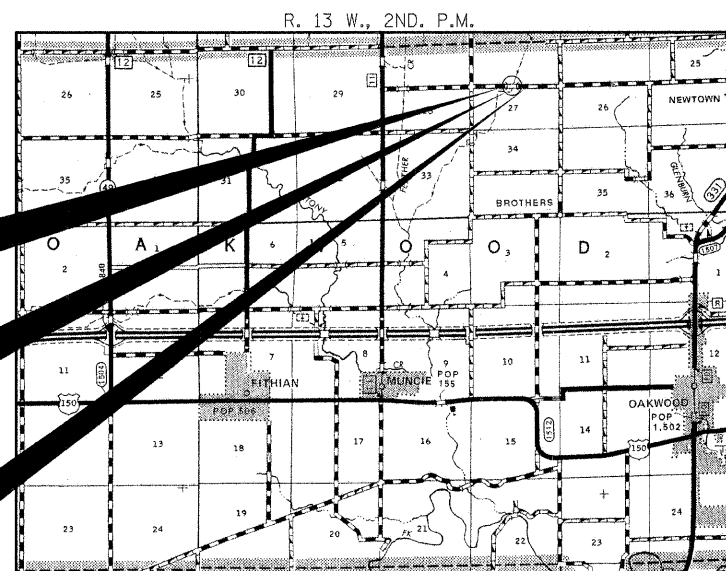
AT&T ENGINEERING
201 S. NEIL ST.
CHAMPAIGN, IL 61820
ATTN: MIKE MURPHY
217-398-7979

AMEREN ILLINOIS
1155 E. VORHEES
DANVILLE, IL 61832



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.

CONTRACT NO. 91457



LOCATION MAP

APPROXIMATE SCALE: 0 1 MILE
NET LENGTH OF SECTION = 390 FEET = 0.074 MILES

IMPROVEMENT BEGINS
STATION 8+00

STA. 9+95
PRECAST PRESTRESSED CONCRETE DECK BEAM
BRIDGE. SINGLE SPAN @ 46'-0"
27'-0" RDWY.; SKEW = 0°
EXISTING STRUCTURE NO. 092-3157
PROPOSED STRUCTURE NO. 092-3513

IMPROVEMENT ENDS
STATION 11+90

FUNCTIONAL CLASSIFICATION: LOCAL ROAD (NON-URBAN)
DESIGN SPEED: 30 MPH
DESIGN TRAFFIC: 75 ADT (2011)



ILLINOIS DEPARTMENT OF TRANSPORTATION	
APPROVED	<i>March 3 2011</i> <i>Douglas R. Stambaugh</i> COUNTY ENGINEER
APPROVED	<i>4th MARCH 2011</i> <i>James M. Stambaugh</i> ROAD DISTRICT COMMISSIONER
PASSED	<i>March 16 2011</i> <i>John S. Stambaugh</i> DISTRICT FIVE ENGINEER OF LOCAL ROADS & STREETS
Releasing For Bid Based on Limited Review	<i>March 17 2011</i> <i>John S. Stambaugh</i> DEPUTY DIRECTOR OF HIGHWAYS REGION THREE ENGINEER STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DATE: *4/2/2011*
Professional Engineer
JOSEPH W. FRAZEE
062-54470
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION
EXPIRES: 11/30/2011

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

PROJECT NUMBER: 10.0322.130

DATE: 02/18/11

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	UNIT	TOTAL
			CONSTRUCTION TYPE CODE 0011
20200100	EARTH EXCAVATION	CU YD	75
20300100	CHANNEL EXCAVATION	CU YD	165
28000305	TEMPORARY DITCH CHECKS	FOOT	10
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	295
^ 50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	23.3
50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	1242
50800105	REINFORCEMENT BARS	POUND	2400
* 50900205	STEEL RAILING, TYPE S1	FOOT	96
51201400	FURNISHING STEEL PILES HP10X42	FOOT	420
51202305	DRIVING PILES	FOOT	420
51203400	TEST PILE STEEL HP10X42	EACH	2
51204650	PILE SHOES	EACH	8
51500100	NAME PLATES	EACH	1
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	64
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	44
* 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	2
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2
67100100	MOBILIZATION	L SUM	1
^ 70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1
* 78200410	GUARDRAIL MARKERS, TYPE A	EACH	4
* 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
^ X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.2
^ X2810208	STONE RIPRAP, CLASS A4 (SPECIAL)	TON	150
^ XX004566	CONCRETE CUT-OFF WALL	CU YD	6.4

^ SEE SPECIAL PROVISIONS
* SPECIALTY ITEMS

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.
- THE REVISION NUMBERS OF THE STANDARDS LISTED IN THE PLANS ARE TO BE USED FOR CONSTRUCTING OF THIS SECTION.
- ALL CLEARING AND GRUBBING, FENCE REMOVAL AND REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- THE LOCATION OF EXISTING GAS MAINS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATIONS 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:

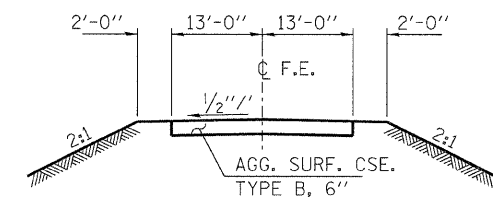
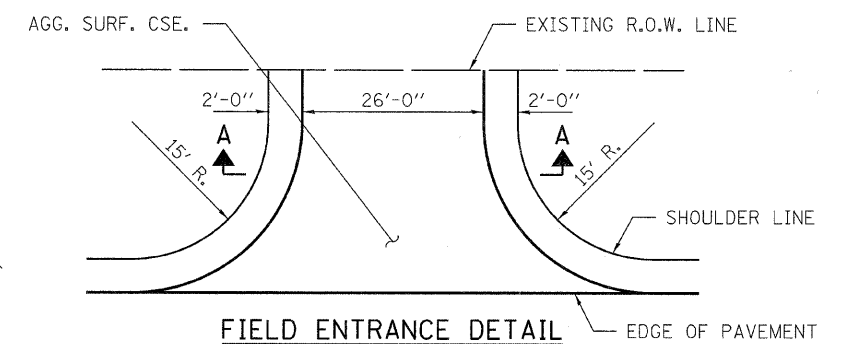
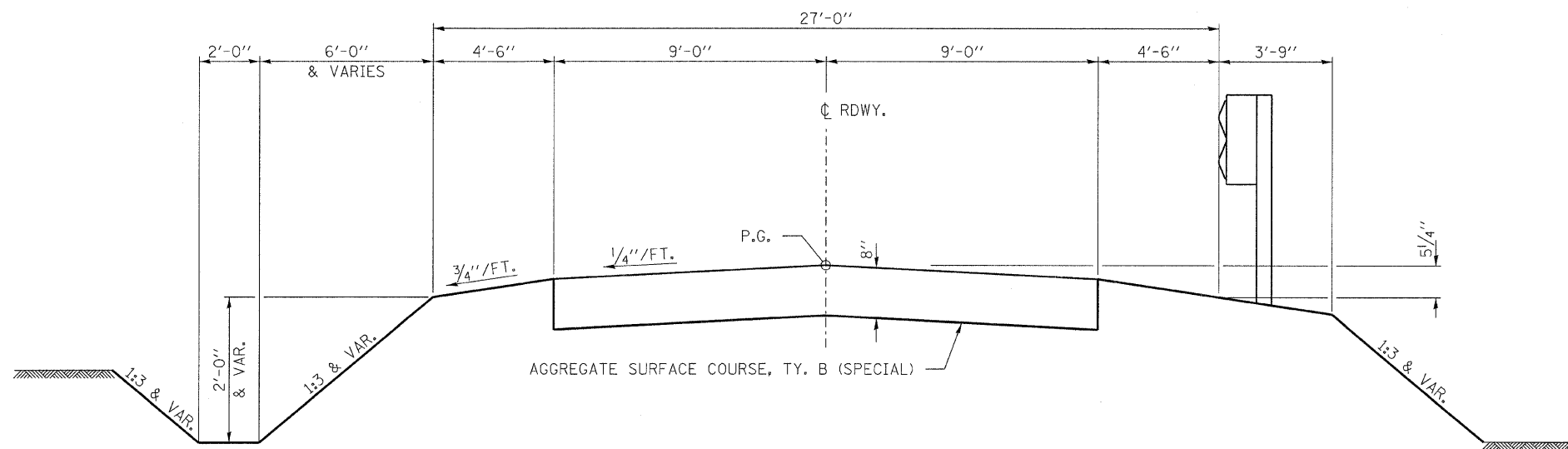
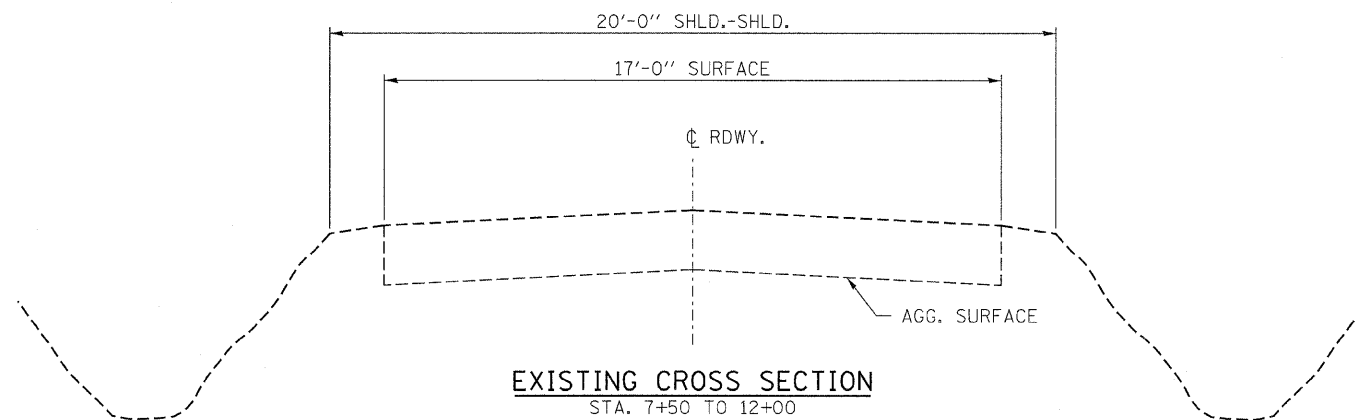
AGGREGATE SURFACE COURSE	1.80 TON/CU YD
STONE RIPRAP	1.75 TON/CU YD
STONE BEDDING	1.80 TON/CU YD
- THE AREA TO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY AS DIRECTED BY THE ENGINEER.
ESTIMATED QUANTITY: SEEDING, CLASS 2 (SPECIAL) = 0.2 ACRES

GUARDRAIL TABULATION

LOCATION	TRAFFIC BARRIER TERMINAL TYPE 5A	TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL (TANGENT)	TERMINAL MARKER DIRECT APPLIED	GUARDRAIL MARKERS TYPE A
		63100075	63100167	78201000
	EACH	EACH	EACH	EACH
RT. STA 9+06.42 TO RT. STA 10+17.25	1	1	2	2
LT. STA 9+72.75 TO LT. STA 10+83.58	1	1	2	2
TOTAL	2	2	4	4

EARTHWORK SCHEDULE

LOCATION	EARTH EXCAVATION	CHANNEL EXCAVATION	SHRINKAGE FACTOR	PERCENT USED	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT REQUIRED	EARTHWORK BALANCE
	CU.YD.	CU.YD.			CU.YD.	CU.YD.	CU.YD.
STA 8+00 TO STA 9+71.33	29		25.00%	100.00%	22	49	-27
STA 9+71.33 TO STA 10+18.67	0		25.00%	100.00%	0	0	0
STA 10+18.67 TO STA 11+90	45		25.00%	100.00%	34	20	14
							0
CHANNEL EXCAVATION		165	25.00%	70.00%	87	0	87
							0
TOTAL	74	165			143	69	74
USE	75	165					75



SUGGESTED CUT SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

TYPICAL CROSS SECTION

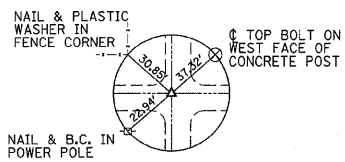
* STA. 8+50.00 TO 9+71.33
* STA. 10+18.67 TO 11+40.00

SUGGESTED FILL SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

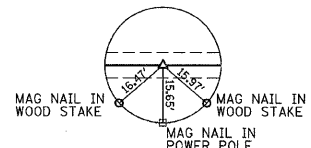
* TRANSITION FROM THE PROPOSED ROADWAY TO THE EXISTING ROADWAY IS TO BE CONSTRUCTED FROM STA. 8+00 TO 8+50 AND STA. 11+40 TO 11+90. SEE SHEET 14 FOR TRANSITION AT BRIDGE.

FILE NAME = 100322-sht-typsections.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS VERMILION COUNTY HIGHWAY DEPARTMENT	TYPICAL CROSS SECTIONS T.R. 225 / 2050N ROAD			T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62765 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-000989		DRAWN - D.T.M.	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	225	08-14136-00-BR	VERMILION	21	3
	PLOT SCALE =	CHECKED - M.G.B.	REVISED -							OAKWOOD ROAD DISTRICT				
	PLOT DATE = 3/2/2011	DATE - 02/18/11	REVISED -											CONTRACT NO. 91457

SECTION A-A

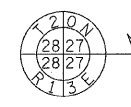
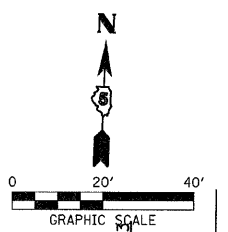


N.W. COR. S.W. 1/4, SEC. 27,
T. 20 N., R. 13 W., 2ND P.M.
IRON PIN W/CAP (FOUND FLUSH)
N. 1,274,977.772
E. 1,131,325.365

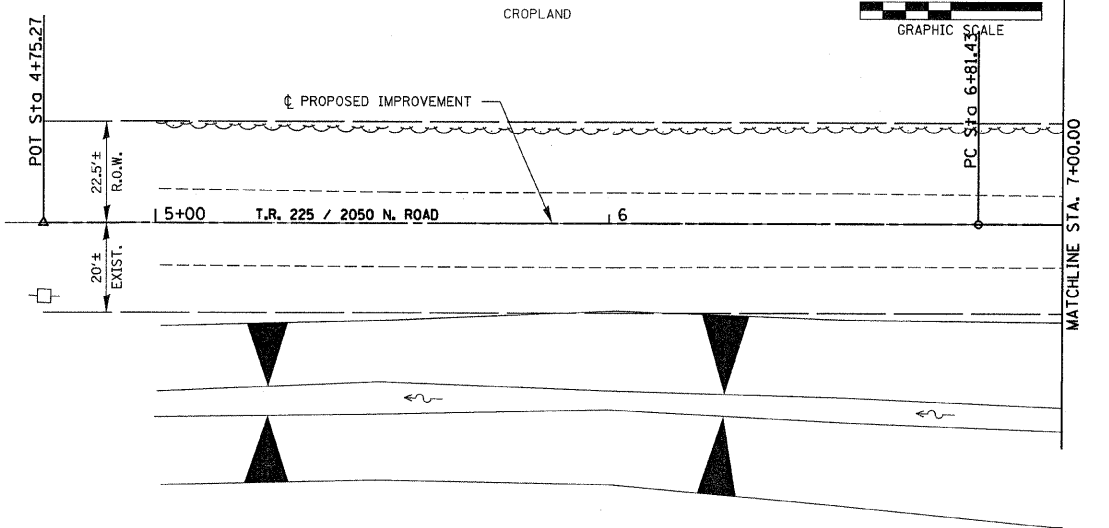


P.O.T. STA. 4+74.27
1/2" Ø IRON PIN (SET)
N. 1,274,870.532
E. 1,128,149.321

MARK AND TONI SHEPHERD
NW 1/4, SEC 27, T. 20 N., R. 13 W., 2ND P.M.



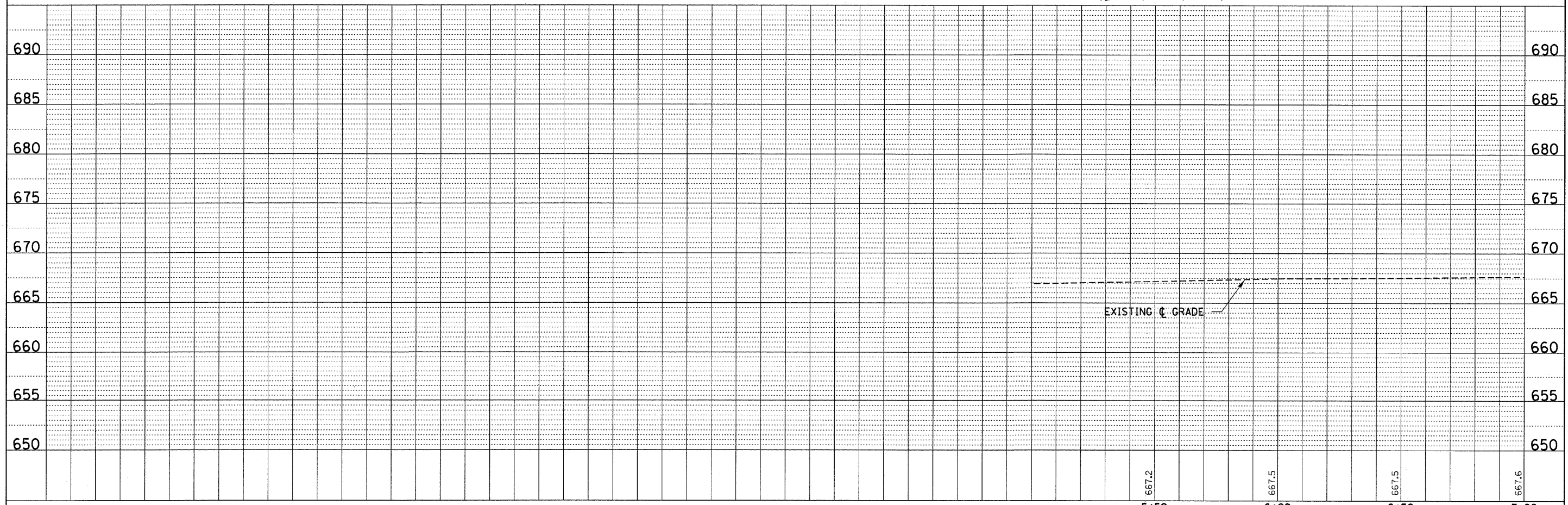
CENTERLINE OF SEC. 27-20-13



MARK SHEPHERD FARMS, INC.
S 1/2, SEC 27, T. 20 N., R. 13 W., 2ND P.M.

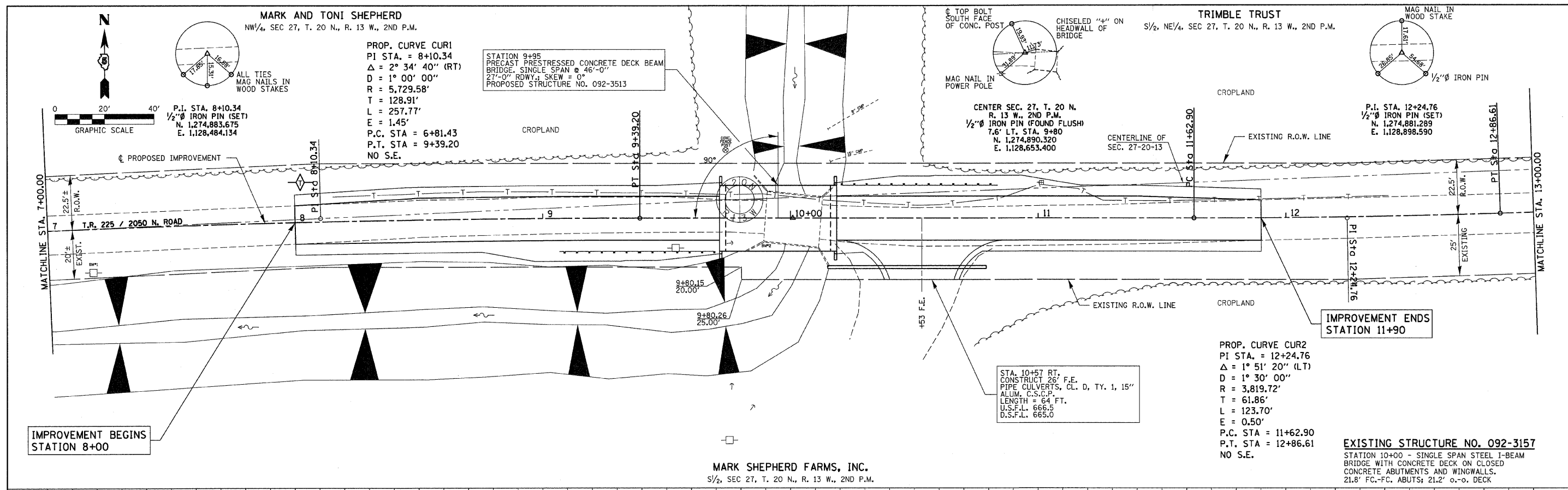
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	ALIGNED	
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	BY	
	NO. OF WAY CHECKED	
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	FILE NAME	

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	CHECKED	
	BY	
	NO. OF WAY CHECKED	
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	STRUCTURE NOTATIONS CHKD	

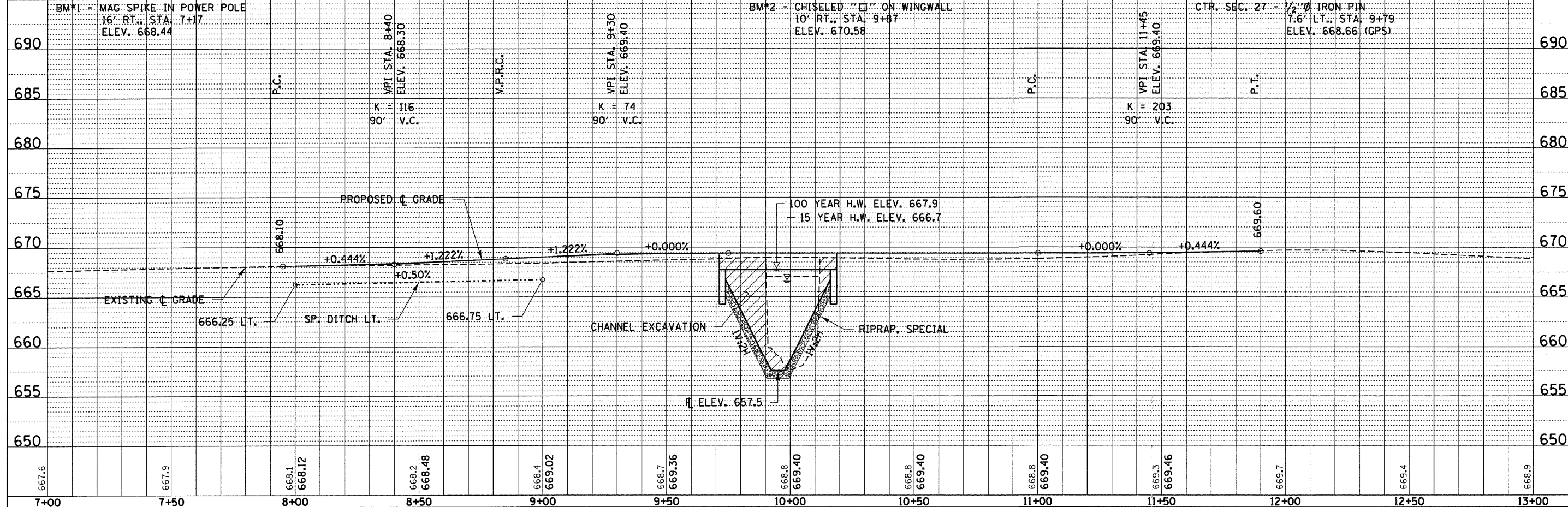


FILE NAME = 100322-sht-ppi.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS VERMILION COUNTY HIGHWAY DEPARTMENT	PLAN & PROFILE T.R. 225 / 2050N ROAD	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62762	PLLOT SCALE =	DRAWN - D.T.M.	REVISED -			225	08-14136-00-BR	VERMILION	21	4	
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 154.000569	PLLOT DATE = 3/2/2011	CHECKED - M.G.B.	REVISED -			OAKWOOD ROAD DISTRICT	CONTRACT NO. 91457	ILLINOIS FED. AID PROJECT			
		DATE - 02/15/11	REVISED -			SCALE: H20xV5	SHEET NO. 1 OF 3 SHEETS	STA. 4+75.27 TO STA. 7+00.00			

PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NOTE BOOK NO.	
	STRUCTURE NO.	

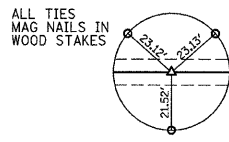


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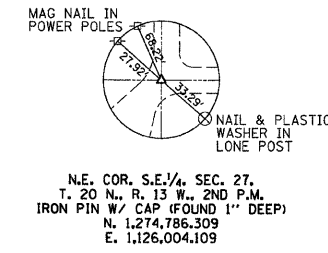


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HAMPTON, LENZINI AND RENWICK, INC. 3088 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62733		DRAWN - D.T.M.	REVISED -		225	08-14136-00-BR	VERMILION	21	5		
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	PLOT DATE = 3/2/2011	DATE = 02/15/11	REVISED -								ILLINOIS FED. AID PROJECT
					SCALE: H20xV5	SHEET NO. 2 OF 3 SHEETS	STA. 7+00.00 TO STA. 13+00.00				

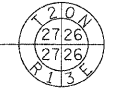
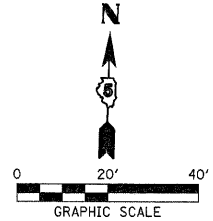
TRIMBLE TRUST
S 1/2, NE 1/4, SEC 27, T. 20 N., R. 13 W., 2ND P.M.



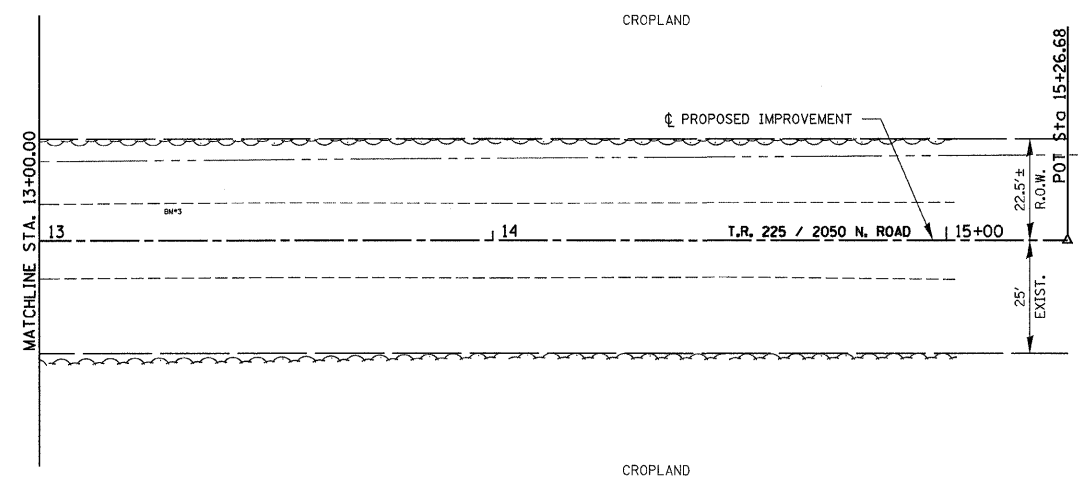
P.O.T. STA. 15+26.68
1/2" IRON PIN (SET)
N. 1,274,889.328
E. 1,129,200.413



N.E. COR. S.E. 1/4, SEC. 27,
T. 20 N., R. 13 W., 2ND P.M.
IRON PIN W/ CAP (FOUND 1" DEEP)
N. 1,274,786.309
E. 1,126,004.109



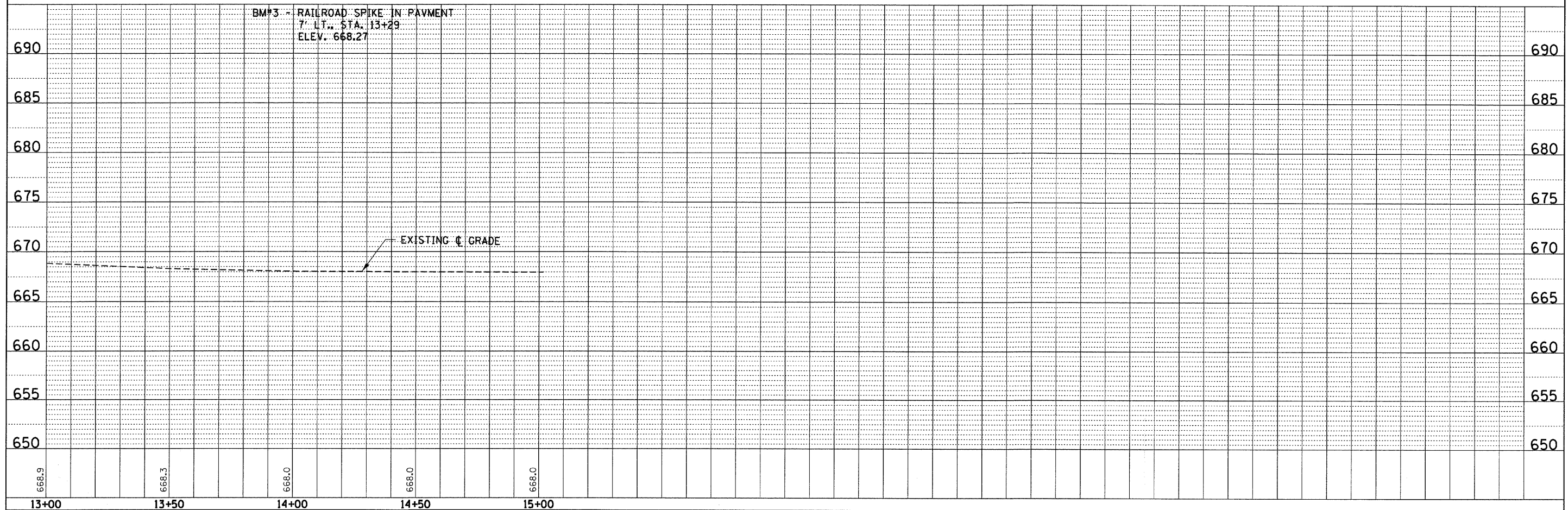
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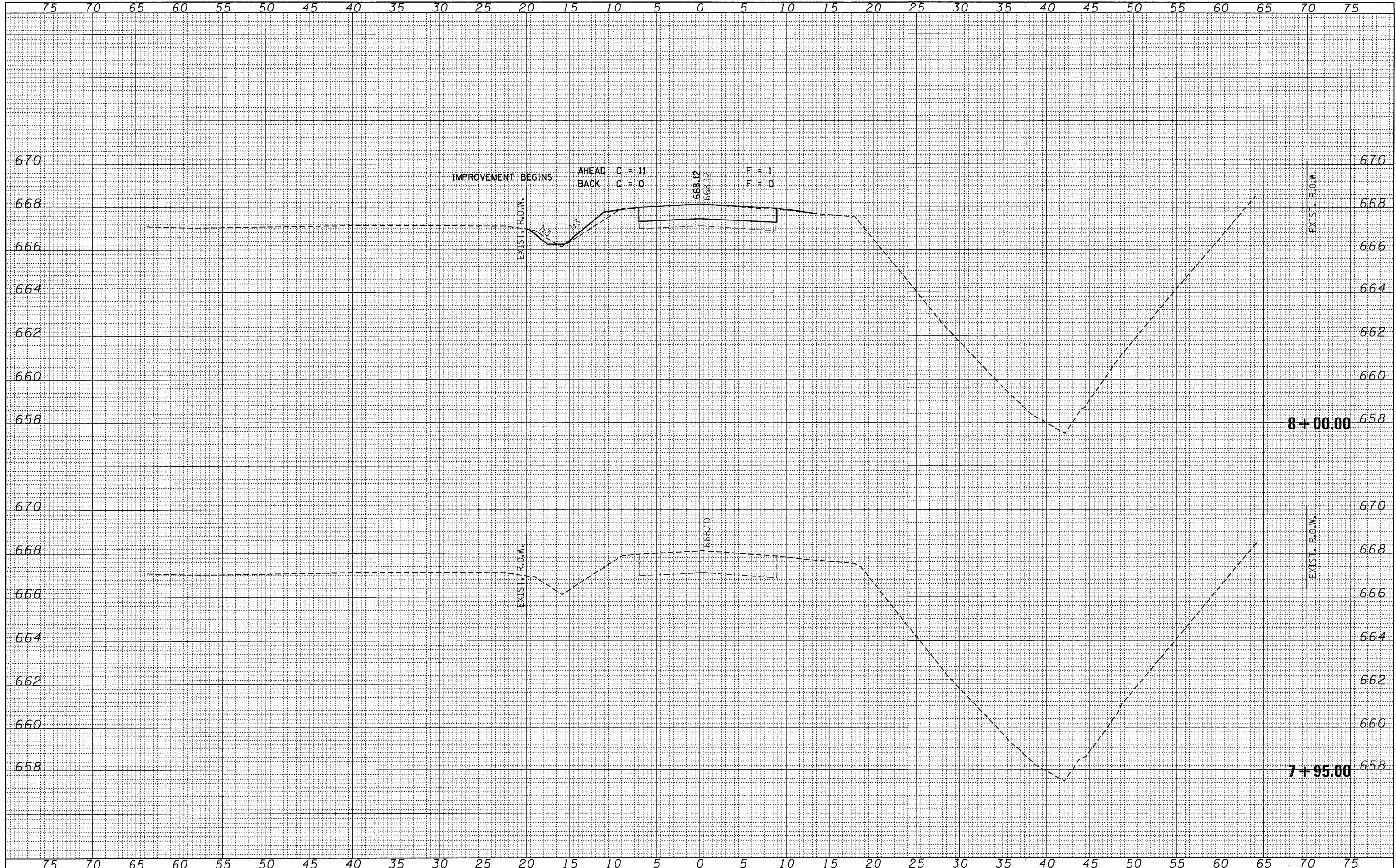
MARK SHEPHERD FARMS, INC.
S 1/2, SEC 27, T. 20 N., R. 13 W., 2ND P.M.

BM#3 - RAILROAD SPIKE IN PAVMENT
7' LT. STA. 13+29
ELEV. 668.27

PROFILE	SURVEYED	DATE
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FILE NAME = 188322-sht-pp3.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS VERMILION COUNTY HIGHWAY DEPARTMENT	PLAN & PROFILE T.R. 225 / 2050N ROAD	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3055 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62765	PLLOT SCALE =	DRAWN - D.T.M.	REVISED -			225	08-14136-00-BR	VERMILION	21	6
ILLINOIS PROFESSIONAL DESIGN FIRM L5 / PE / SE CORP. 184.000959	PLLOT DATE = 3/2/2011	CHECKED - M.G.B.	REVISED -			OAKWOOD ROAD DISTRICT		CONTRACT NO. 91457		
		DATE - 02/15/11	REVISED -			SCALE: H20xV5	SHEET NO. 3 OF 3 SHEETS	STA. 13+00.00 TO STA. 15+26.68	ILLINOIS FED. AID PROJECT	



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

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

FILE NAME = 100322-sht-axa.dgn
 HAMPTON, LENZINI AND RENWICK, INC.
 3553 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62761
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.00058

USER NAME =
 DESIGNED - J.W.F.
 DRAWN - D.T.M.
 CHECKED - M.G.B.
 DATE - 02/15/11
 PLOT SCALE =
 PLOT DATE = 3/2/2011

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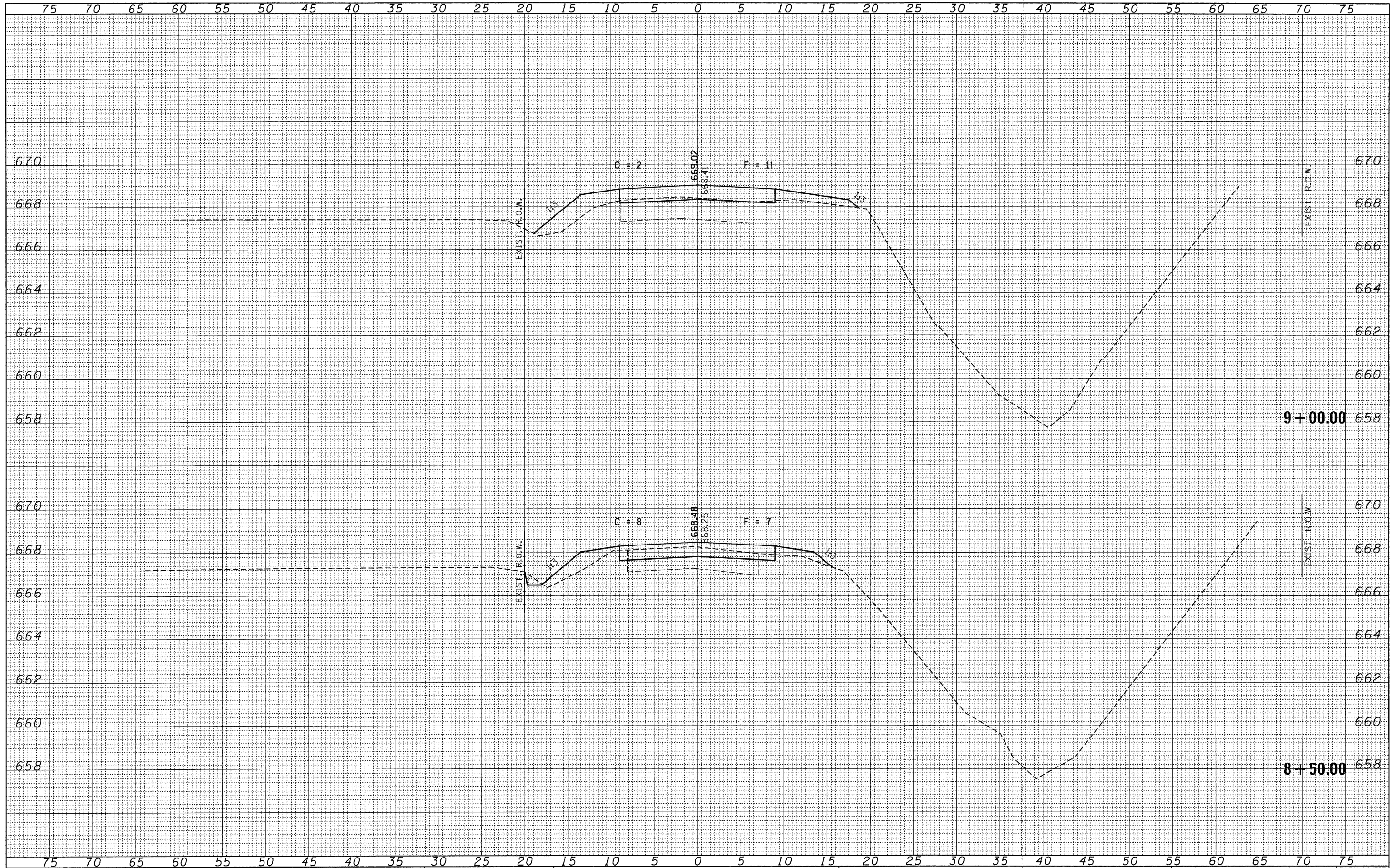
STATE OF ILLINOIS
 VERMILION COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
 T.R. 225 / 2050N ROAD
 SCALE: H5:V2
 SHEET NO. OF SHEETS STA. 7+95.00 TO STA. 8+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
225	08-14136-00-BR	VERMILION	21	7
OAKWOOD ROAD DISTRICT			CONTRACT NO. 91457	
ILLINOIS FED. AID PROJECT				

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

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



FILE NAME = 100322-ehf-osa.dgn
 HAMPTON, LENZINI AND RENWICK, INC.
 338 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62709
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE OGRP 184-009899

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 PLOT DATE = 3/2/2011

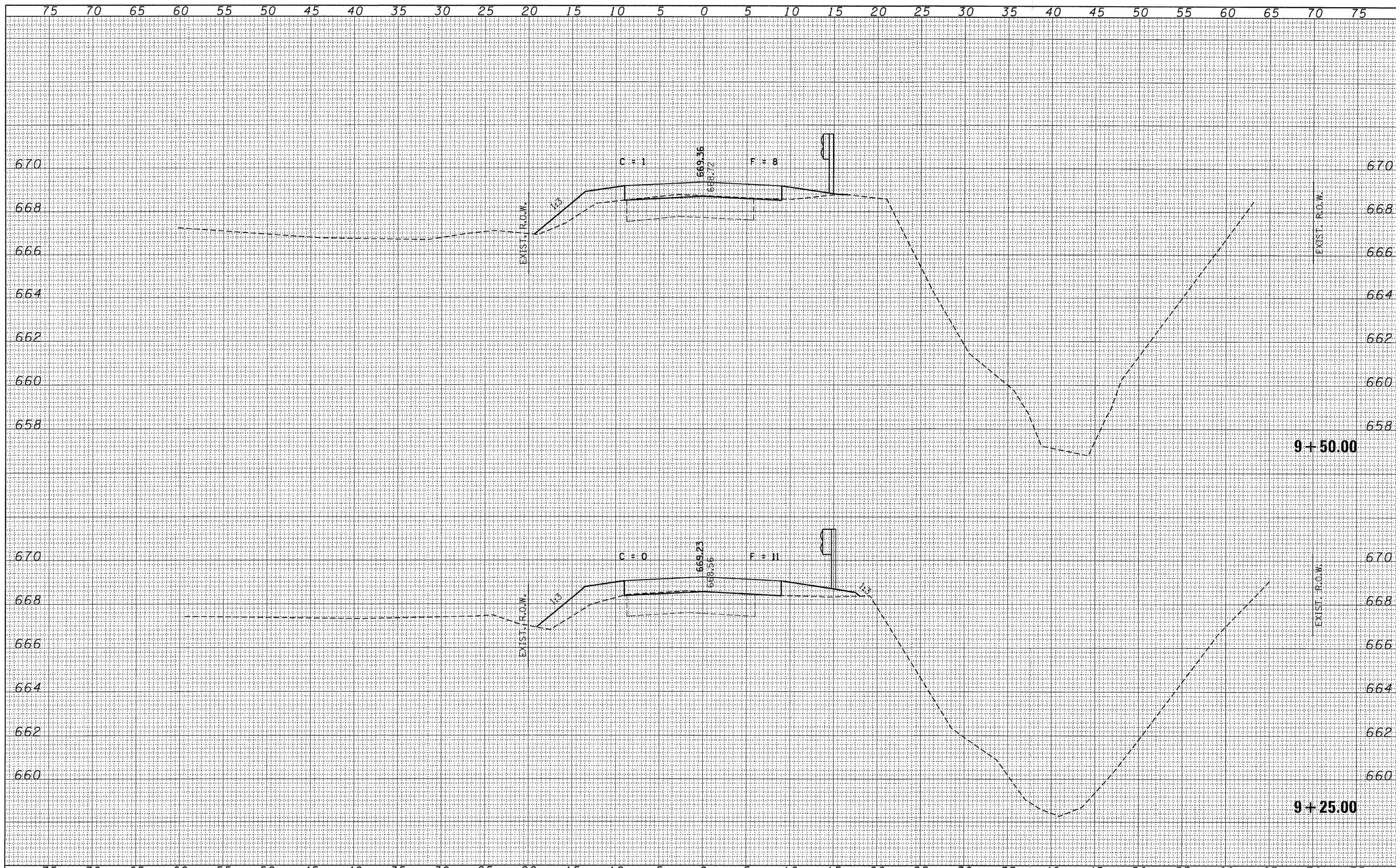
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 DRAWN - D.T.M.
 CHECKED - M.G.B.
 DATE - 02/15/11

REVISED -
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 REVISED -

STATE OF ILLINOIS
 VERMILION COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
 T.R. 225 / 2050N ROAD
 SCALE: H5:V2
 SHEET NO. OF SHEETS STA. 8+50.00 TO STA. 9+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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OAKWOOD ROAD DISTRICT			CONTRACT NO. 91457	
ILLINOIS FED. AID PROJECT				



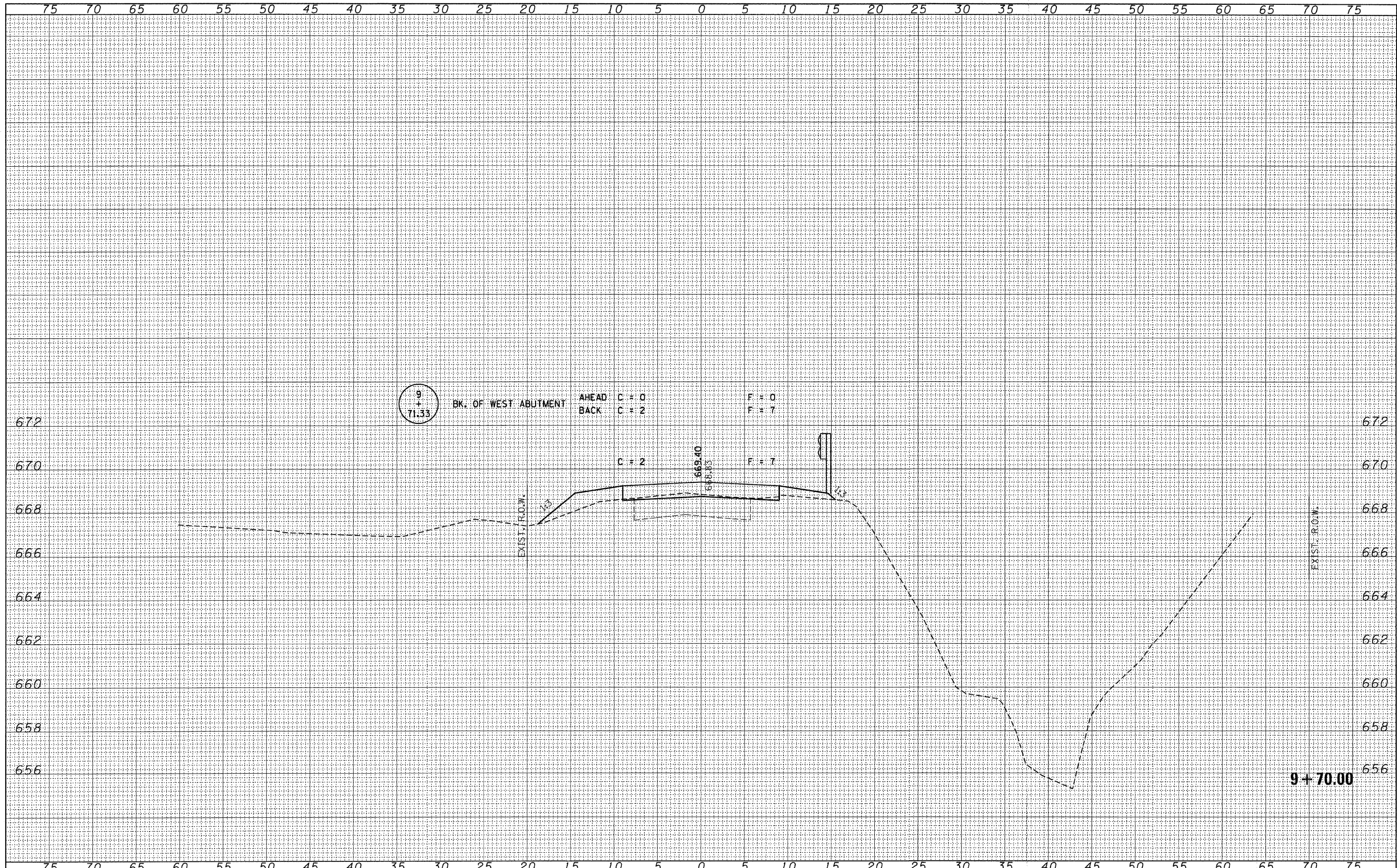
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TEMPLATE	
AREAS CHECKED	
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NOTE BOOK	
NO.	

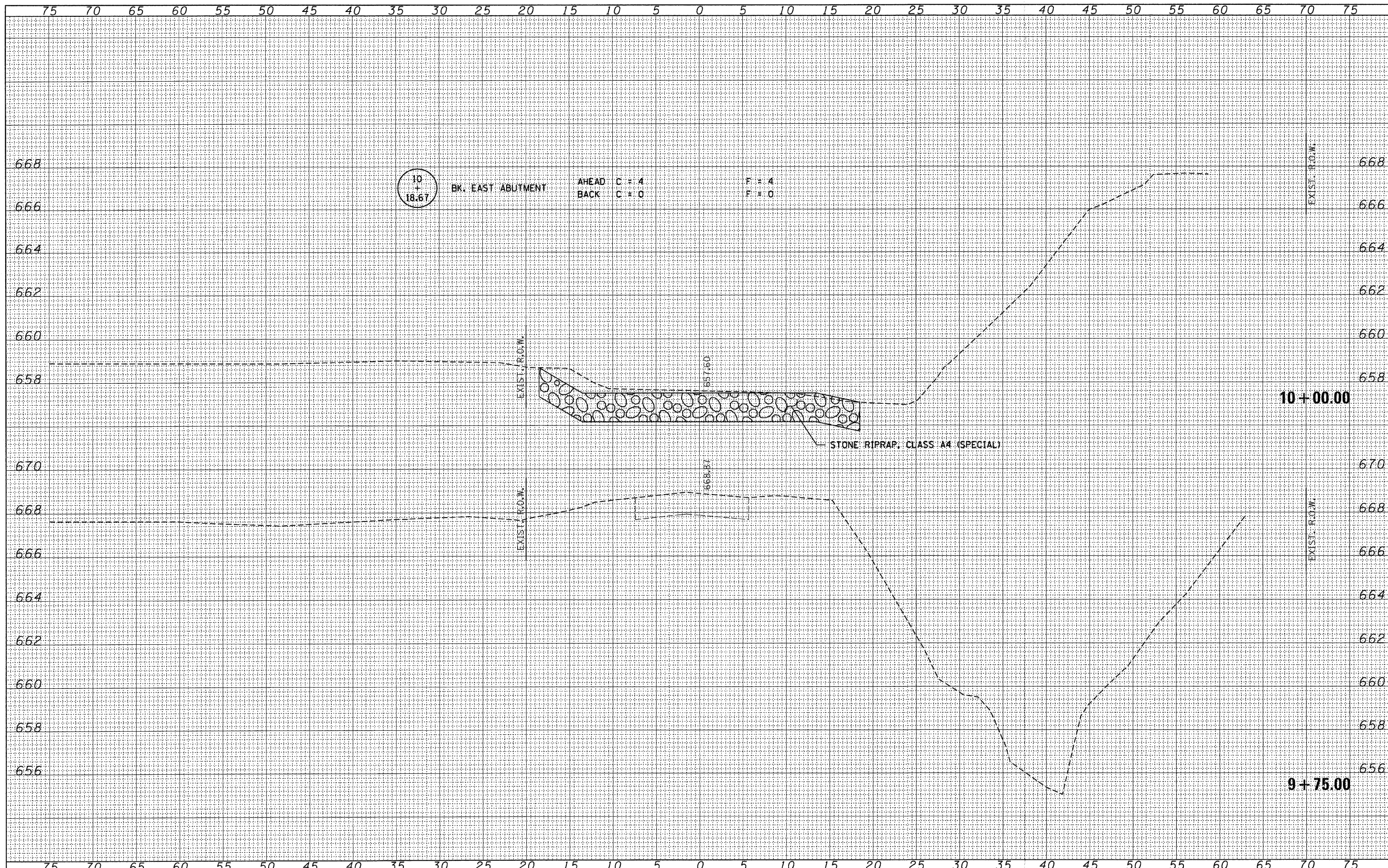
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<p>HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62702</p>		DRAWN - D.T.M.	REVISED -		225	08-14136-00-BR	VERMILION	21	9		
		CHECKED - M.C.B.	REVISED -		OAKWOOD ROAD DISTRICT		CONTRACT NO. 91457		<p align="center">ILLINOIS FED. AID PROJECT</p>		
<p>ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-000989</p>		DATE - 02/15/11	REVISED -		SCALE: H5:V2	SHEET NO.	OF SHEETS	STA. 9+25.00 TO STA. 9+50.00			
<p>PLOT SCALE =</p>		PLOT DATE = 3/2/2011									

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

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



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HAMPTON, LENZINI AND RENWICK, INC. 3685 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE / CC / RP 184.000859		DRAWN - D.T.M.	REVISED -		225	08-14136-00-BR	VERMILION	21	10		
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	PLOT DATE = 3/2/2011	DATE - 02/15/11	REVISED -		ILLINOIS FED. AID PROJECT						



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

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

FILE NAME = 100322-ah-t-ava.dgn
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 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LB / PE / SE CORP. 184-009989

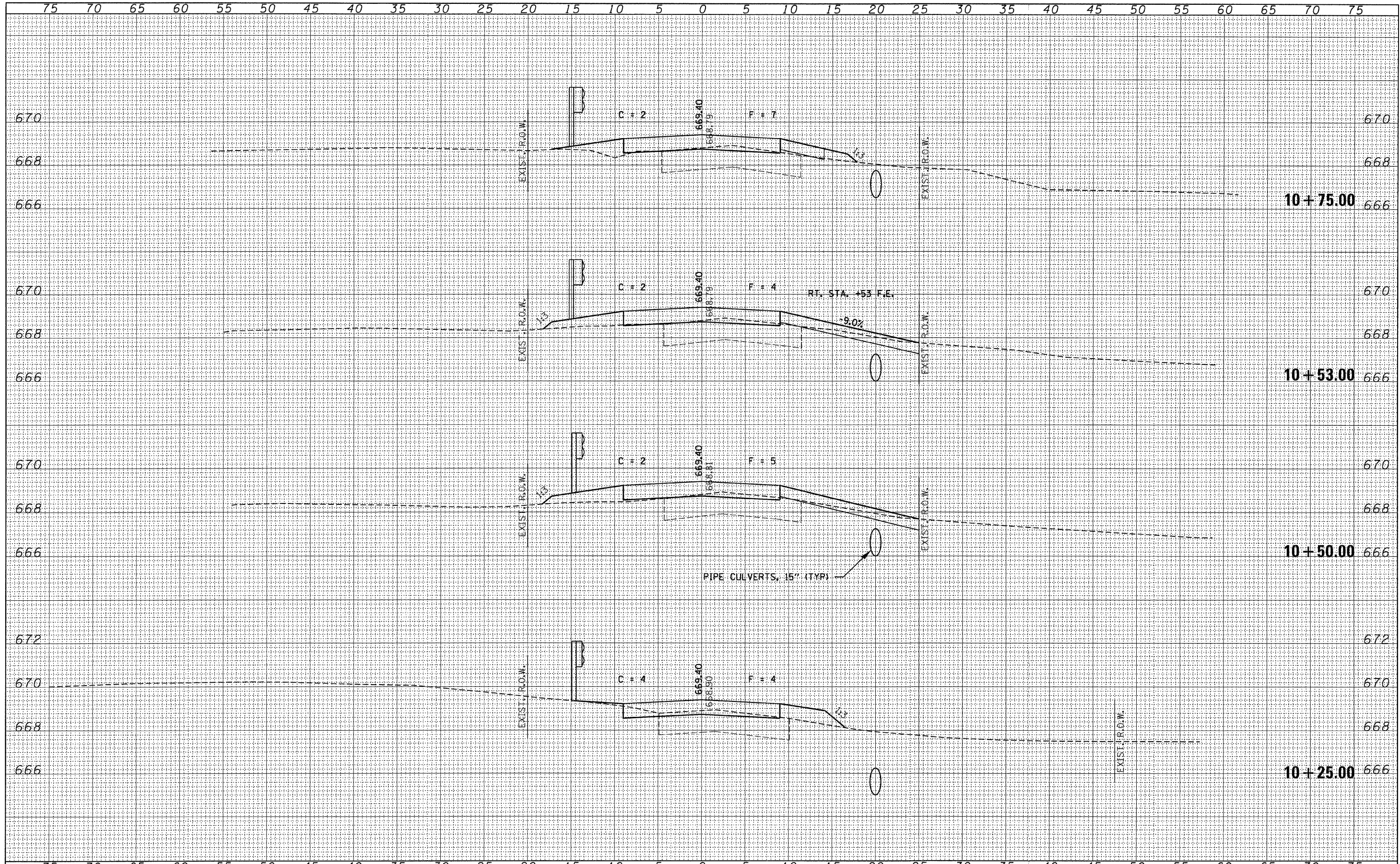
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DESIGNED - J.W.F.	REVISED -
DRAWN - D.T.M.	REVISED -
CHECKED - M.G.B.	REVISED -
DATE - 02/15/11	REVISED -

STATE OF ILLINOIS
 VERMILION COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
 T.R. 225 / 2050N ROAD
 SCALE: H5:V2 SHEET NO. OF SHEETS STA. 9+75.00 TO STA. 10+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
225	08-14136-00-BR	VERMILION	21	11
OAKWOOD ROAD DISTRICT			CONTRACT NO. 91457	
ILLINOIS FED. AID PROJECT				



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

DATE	
BY	
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NOTE BOOK	
SURVEYED	
PLOTTED	
ORIGINAL	

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 3085 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184-00989

USER NAME =
 PLOT SCALE =
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DESIGNED - J.W.F.
 DRAWN - D.T.M.
 CHECKED - M.G.B.
 DATE - 02/15/11

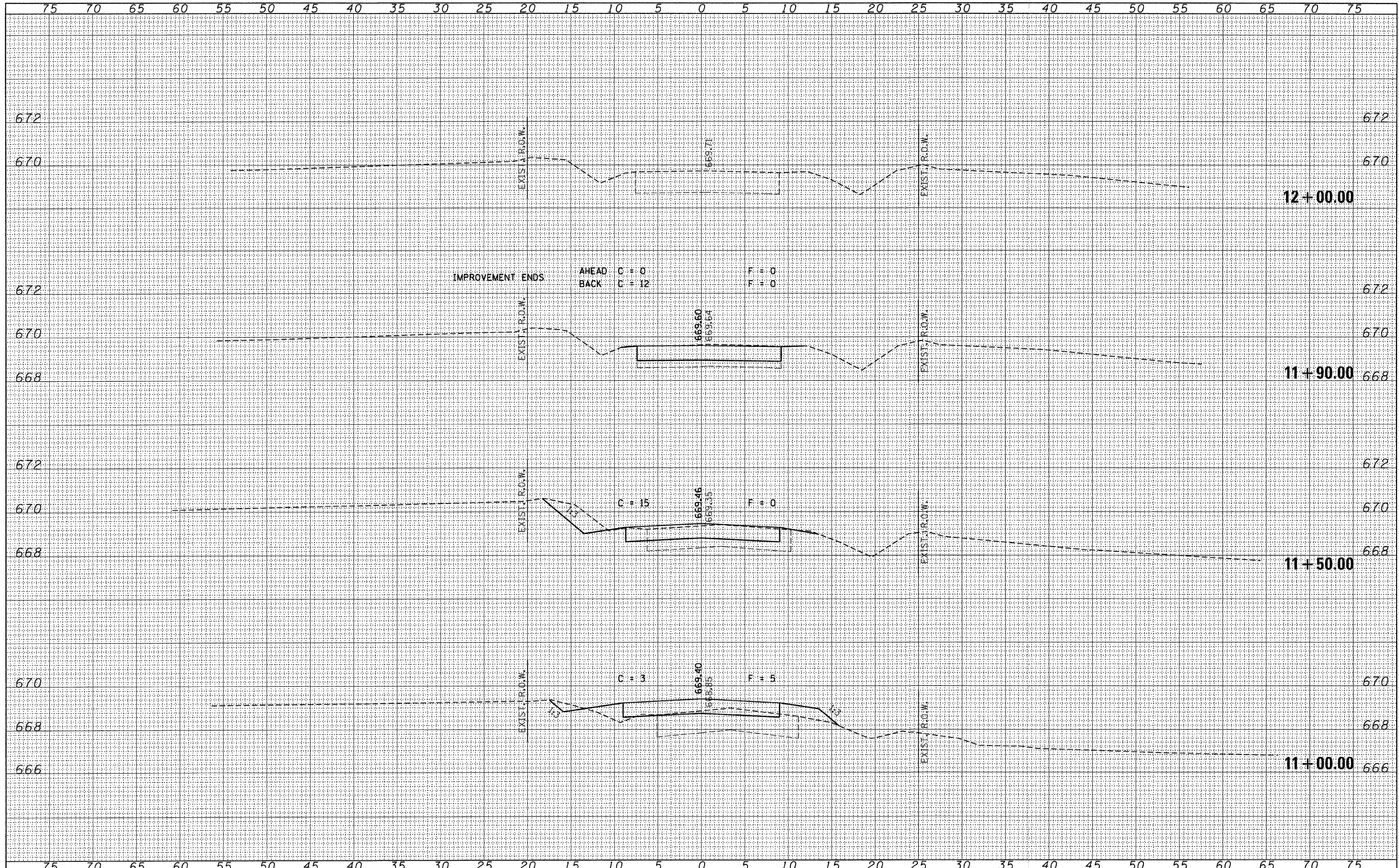
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**STATE OF ILLINOIS
 VERMILION COUNTY HIGHWAY DEPARTMENT**

**STATION CROSS SECTIONS
 T.R. 225 / 2050N ROAD**

SCALE: H5V2 SHEET NO. OF SHEETS STA. 10+25.00 TO STA. 10+75.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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OAKWOOD ROAD DISTRICT		CONTRACT NO. 91457		
ILLINOIS FED. AID PROJECT				



DATE	
BY	
NO.	
AREAS CHECKED	
TEMP. CHECKED	
PLOTTED	
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FINAL	

DATE	
BY	
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ORIGINAL	

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 388 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184-00089

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PLOT DATE = 3/2/2011	CHECKED - M.G.B.	REVISED -
	DATE - 02/15/11	REVISED -

STATE OF ILLINOIS
 VERMILION COUNTY HIGHWAY DEPARTMENT

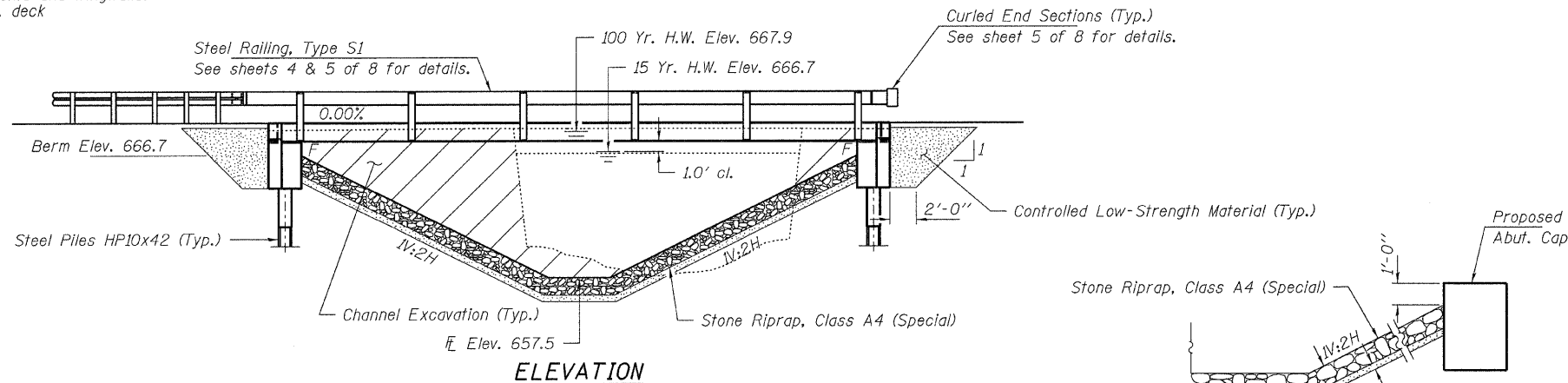
STATION CROSS SECTIONS			
T.R.	SECTION	COUNTY	TOTAL SHEETS
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			13
OAKWOOD ROAD DISTRICT			CONTRACT NO. 91457
SCALE: H5:V2 SHEET NO. OF SHEETS STA. 11+00.00 TO STA. 12+00.00			

ILLINOIS FED. AID PROJECT

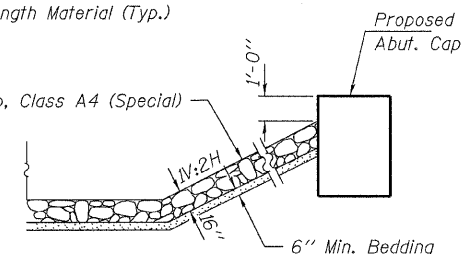
BENCHMARK: Chiseled "□" on wingwall; 10' Rt. Sta. 9+87; Elev. 670.58

EXISTING STRUCTURE NO. 092-3157 :Sta. 10+00 - Single span steel I-Beam bridge with concrete deck on closed concrete abutments and wingwalls.
21.8' fc.-fc. abuts; 21.2' o.-o. deck
Structure closed to traffic.

No Salvage



ELEVATION



SECTION A-A

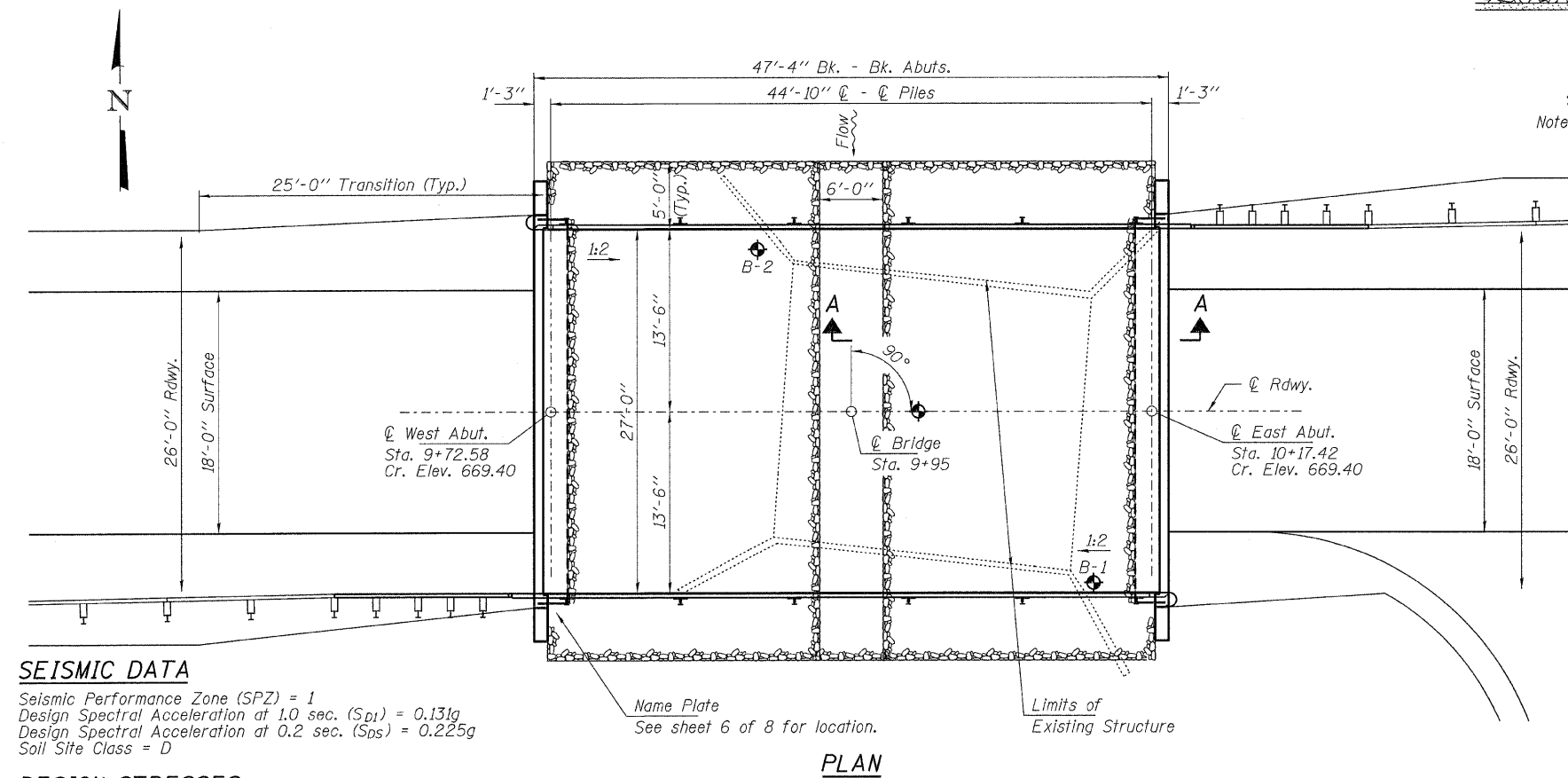
Note: See Special Provisions for Stone Riprap, Class A4 (Special)

GENERAL NOTES

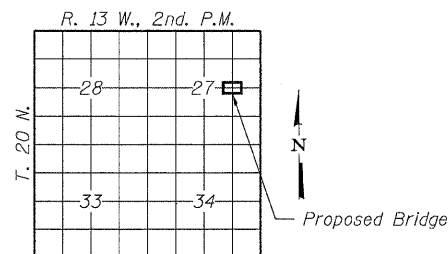
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at each Abutment or approved by the Engineer before ordering the remainder of piles.
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.
Excavation required to construct the Abutments shall be included in the cost of Concrete Structures. No additional compensation will be allowed for Structure Excavation.
All proposed construction activities shall be in accordance with Nationwide Permit number 3 of the Department of the Army authorized under Section 404 of the Clean Water Act.
The IEPA has issued Section 401 Water Quality Certification for this activity. See Special Provisions for conditions.

INDEX OF STRUCTURE SHEETS

1. General Plan & Elevation
2. 17" x 36" PPC Deck Beam
3. 17" x 36" PPC Deck Beam Details
4. Superstructure Details
5. Steel Railing, Type S-1
6. Abutments
7. HP Pile Details
8. Borings



PLAN



LOCATION SKETCH

BUILT 201 BY
VERMILION COUNTY
SEC. 08-14136-00-BR
OAKWOOD ROAD DISTRICT
STR. NO. 092-3513
LOADING HL-93

NAME PLATE
See Std. 515001

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.131g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.225g
Soil Site Class = D

DESIGN STRESSES

FIELD UNITS

f'c = 3,500 psi
fy = 60,000 psi (Reinf.)

PRECAST PRESTRESSED UNITS

f'c = 6,000 psi
f'ci = 5,000 psi
fpu = 270,000 psi (1/2" low lax. strands)
fpbt = 201,960 psi (1/2" low lax. strands)
fy = 60,000 psi (Reinf.)

LOADING HL-93

Design Specifications: 2007 AASHTO LRFD
with all applicable Interims.
50#/Sq. Ft. included in dead load for future wearing surface.

WATERWAY INFORMATION

Drainage Area = 3.3 sq. mi.		Existing Low Grade Elevation = 667.2 ft. at Sta. 5+50		Proposed Low Grade Elevation = 667.2 ft. at Sta. 5+50					
Flood	Frequency Year	Discharge (cfs)	Waterway Opening (sq. ft.)		Head (ft.)		Headwater Elev.		
			Existing	Proposed	Natural H.W.E	Existing	Proposed	Existing	Proposed
DESIGN	15	850	170	210	666.21	0.07	0.06	666.28	666.27
BASE	100	1430	190	260	667.86	0.54	0.48	668.40	668.34
EXIST OVERTOP	50	1210	190		667.52	0.52		668.04	
PROP OVERTOP	500	1960	260		668.37		0.90		669.27

10 Year Velocity T through Existing Bridge (fps) = 4.3 10 Year Velocity T through Proposed Bridge (fps) = 3.7

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

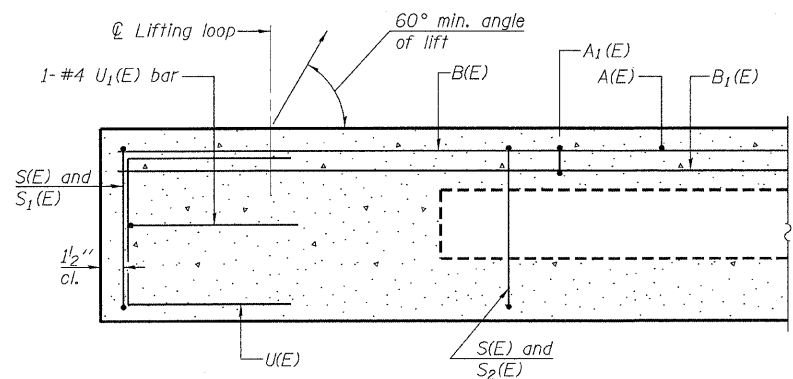
Michael G. Berry 3/2/11
ILLINOIS STRUCTURAL NO. 081-4622



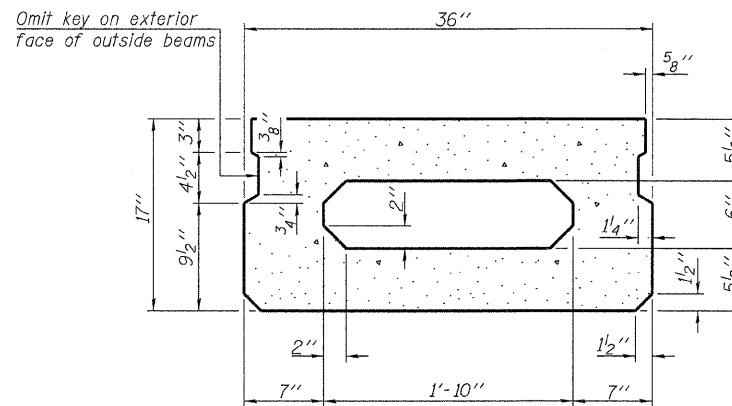
Expires 11-30-2012

TOTAL BILL OF MATERIAL

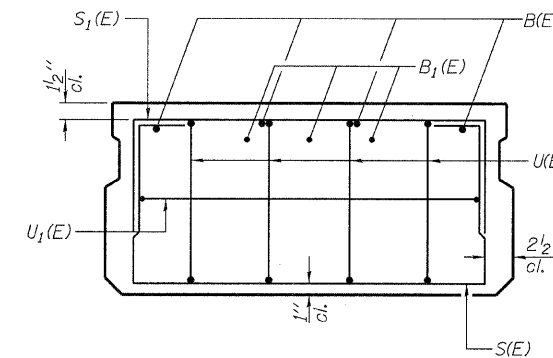
ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.			165
Controlled Low-Strength Material	Cu. Yd.			44
Stone Riprap, Class A4 (Special)	Ton			150
Removal of Existing Structures	Each			1
Concrete Structures	Cu. Yd.		23.3	23.3
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	1,242		1,242
Reinforcement Bars	Pound		2,400	2,400
Steel Railing, Type S1	Foot	96		96
Furnishing Steel Piles HP10x42	Foot		420	420
Driving Piles	Foot		420	420
Test Pile Steel HP10x42	Each		2	2
Pile Shoes	Each		8	8
Name Plates	Each		1	1
Concrete Cuf-Off Wall	Cu. Yd.		6.4	6.4



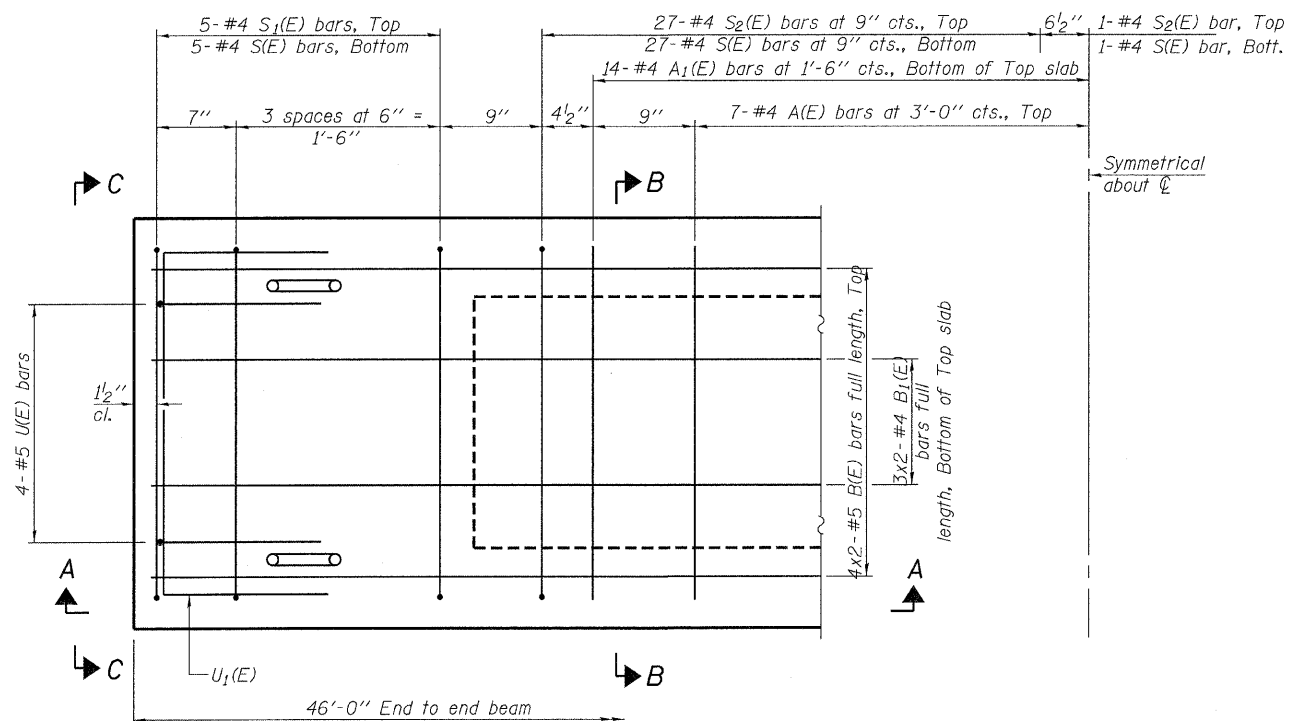
SECTION A-A



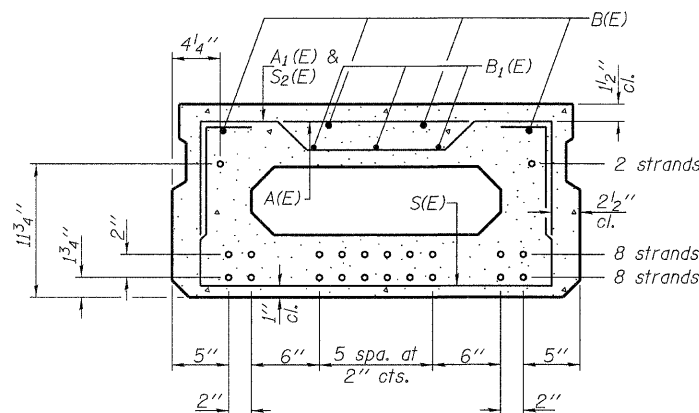
SECTION B-B
(Showing dimensions)



VIEW C-C



PLAN VIEW



SECTION B-B
(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)	14	#4	2'-7"	—
A1(E)	28	#4	2'-10"	—
B(E)	8	#5	24'-1"	—
B1(E)	6	#4	23'-10"	—
S(E)	65	#4	5'-9"	□
S1(E)	10	#4	4'-3"	□
S2(E)	55	#4	4'-6"	□
U(E)	8	#5	3'-8"	□
U1(E)	2	#4	5'-0"	□

Note: See sheets 3 & 4 of 8 for additional details and Bill of Material.

MINIMUM BAR LAP

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

Notes:
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.
Bars indicated thus 4x2-#5 etc. indicates 4 lines of bars with 2 lengths per line.

PD-1736-0

7-1-10

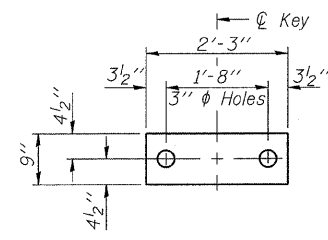
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3305 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM 1 S / P E / S E CORP. 184.000399	PLOT SCALE =	DRAWN - D.T.M.	REVISED -
	PLOT DATE = 3/2/2011	CHECKED - M.G.B.	REVISED -

STATE OF ILLINOIS
VERMILION COUNTY HIGHWAY DEPARTMENT

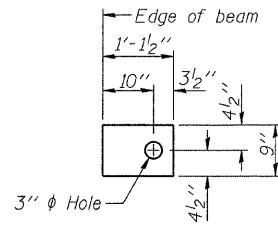
17" x 36" PPC DECK BEAM
STRUCTURE NO. 092-3513

SHEET NO. 2 OF 8 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
225	08-14136-00-BR	VERMILION	21	15
OAKWOOD ROAD DISTRICT	CONTRACT NO. 91457			
ILLINOIS FED. AID PROJECT				



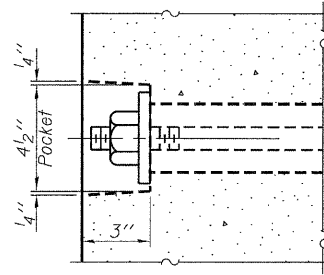
FABRIC BEARING PAD
(Interior - 16 Req'd.)



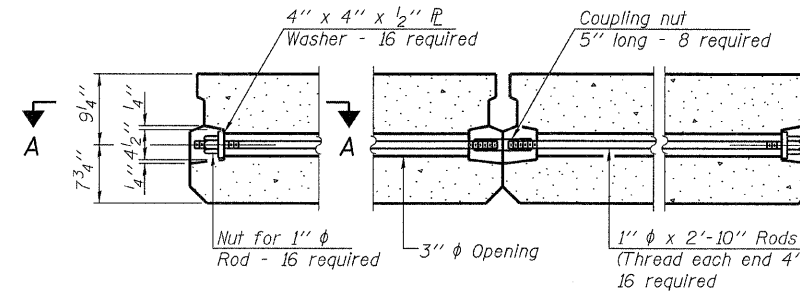
FABRIC BEARING PAD
(Exterior - 4 Req'd.)

FIXED

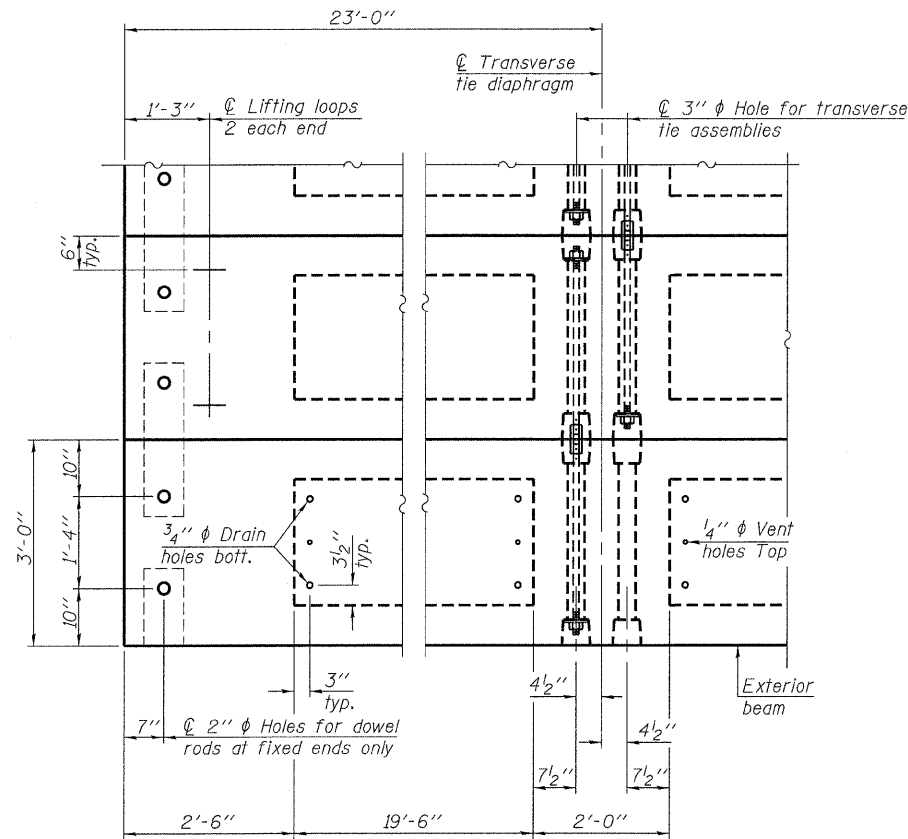
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A

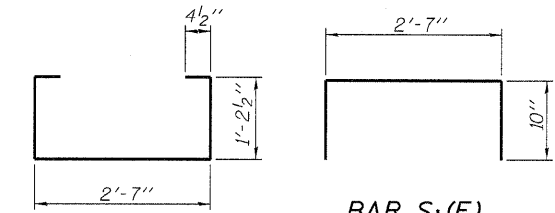


TYPICAL TRANSVERSE TIE ASSEMBLY



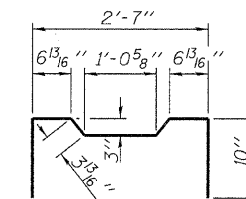
PLAN VIEW

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

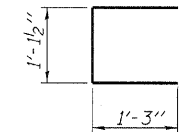


BAR S₁(E)

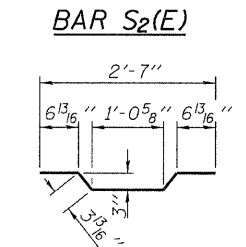
BAR S(E)



BAR S₂(E)

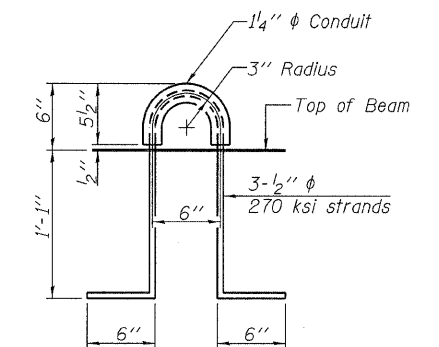


BAR UE(E)



BAR U₁(E)

BAR A₁(E)



LIFTING LOOP DETAIL

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" ϕ 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" ϕ 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.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	1,242
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PD-1736-0D

7-1-10

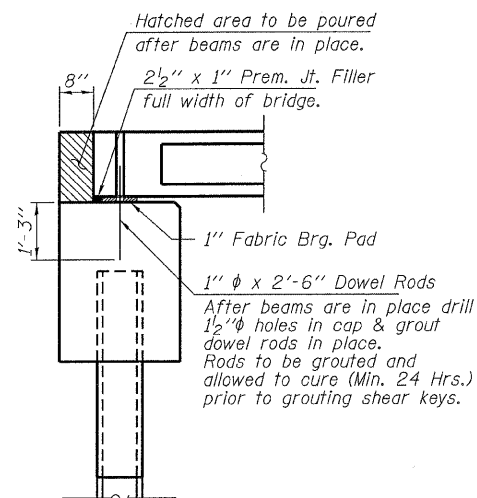
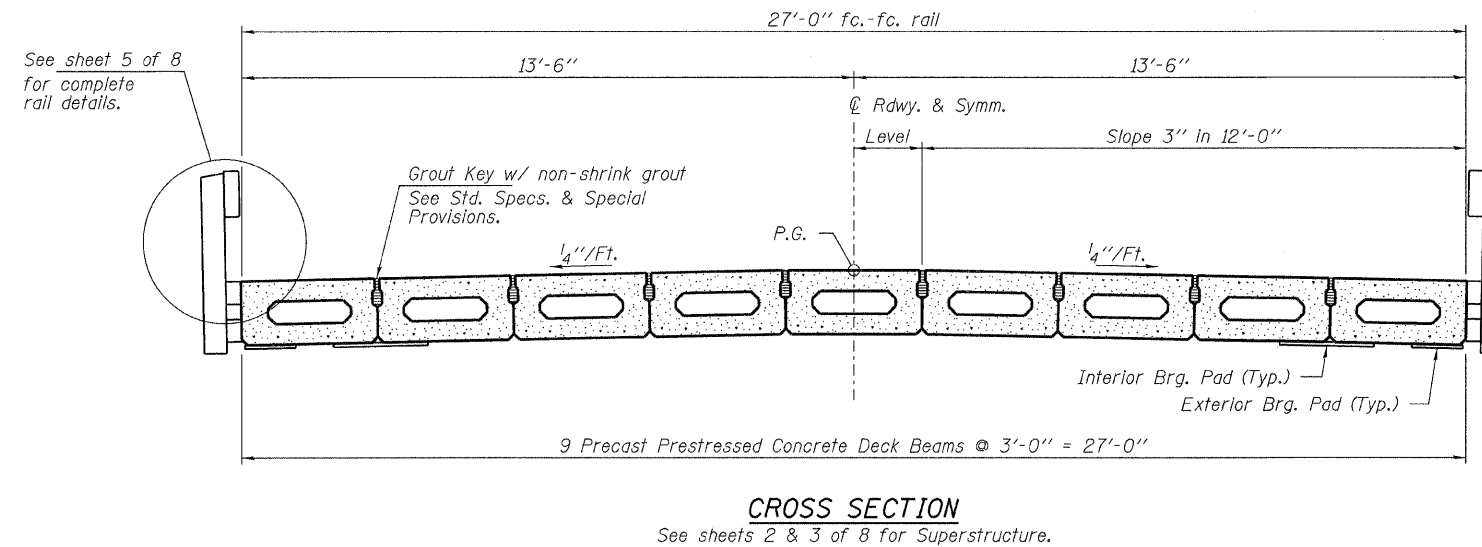
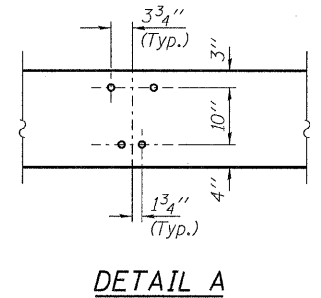
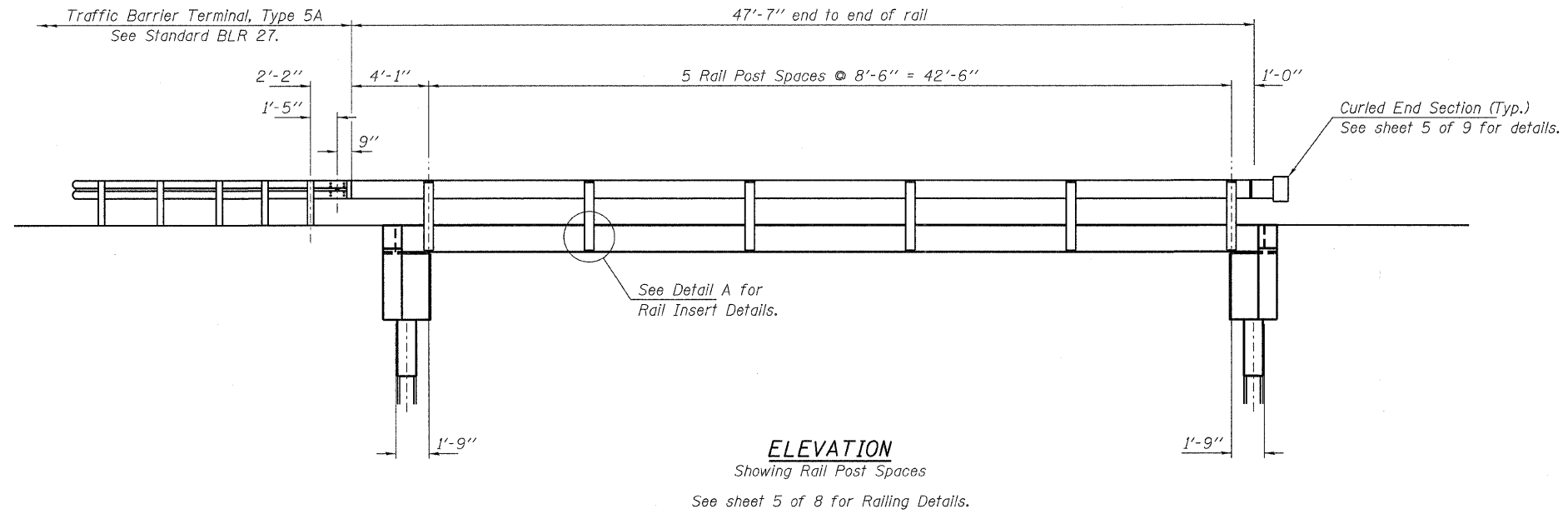
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ILLINOIS PROFESSIONAL DESIGN FIRM L.S./P.E./S.E. CORP. 184-000559	PLLOT DATE = 3/2/2011	CHECKED - M.G.B.	REVISED -

STATE OF ILLINOIS
VERMILION COUNTY HIGHWAY DEPARTMENT

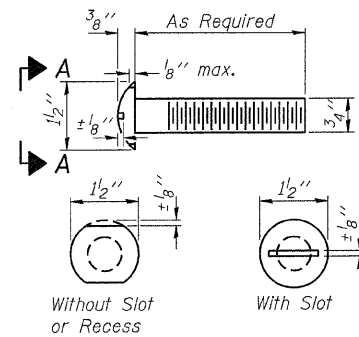
17" x 36" PPC DECK BEAM DETAILS
STRUCTURE NO. 092-3513

SHEET NO. 3 OF 8 SHEETS

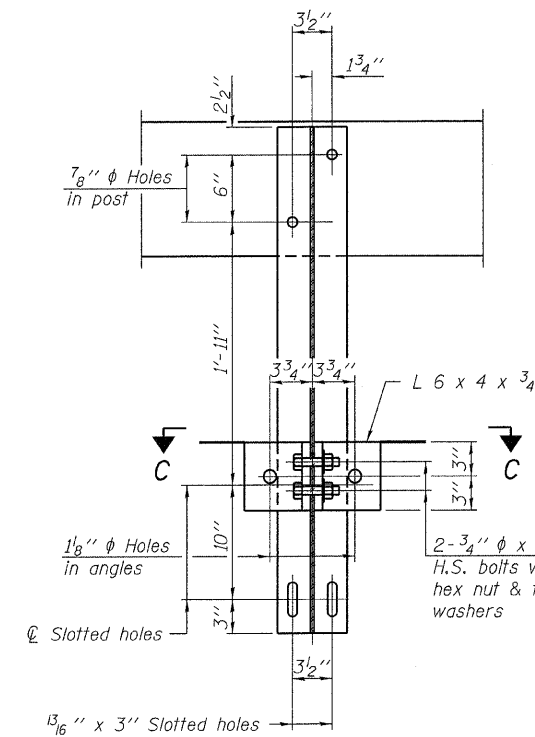
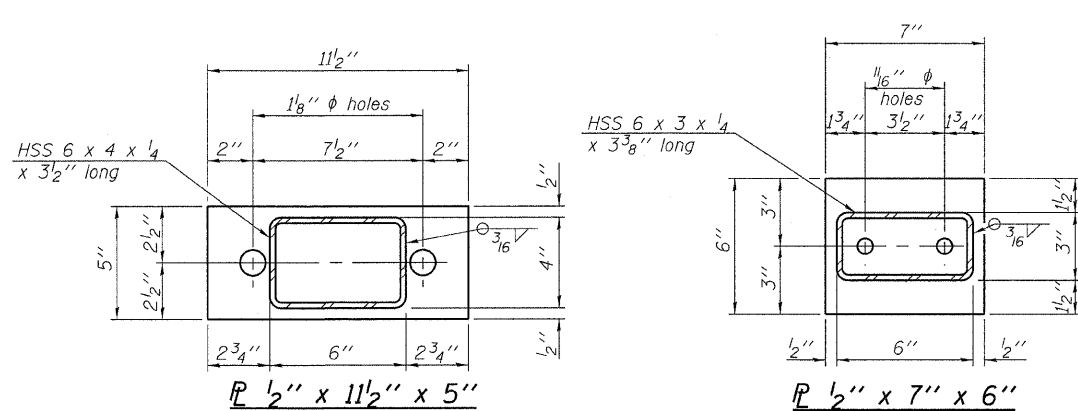
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OAKWOOD ROAD DISTRICT		CONTRACT NO. 91457		
ILLINOIS FED. AID PROJECT				



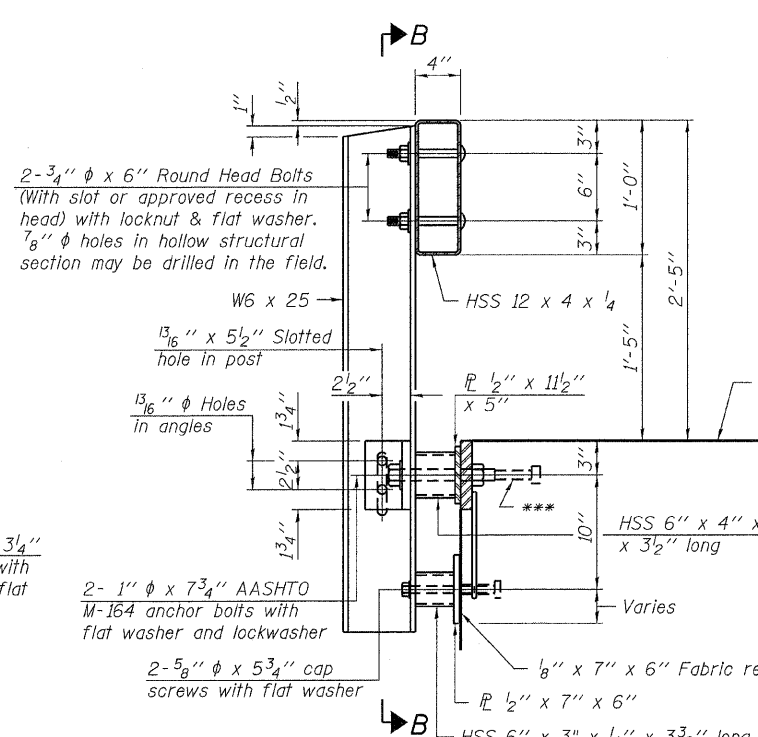
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						SHEET NO. 4 OF 8 SHEETS					



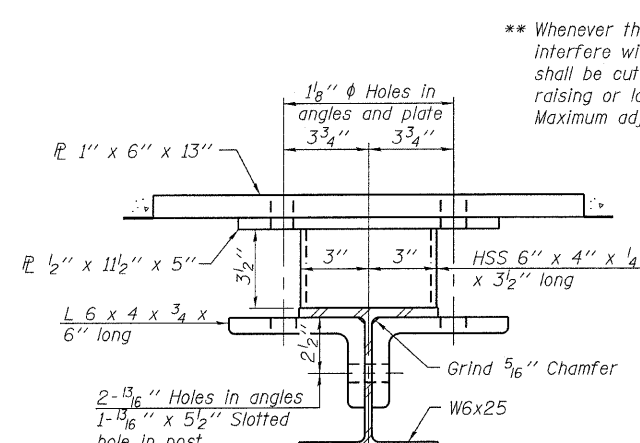
**VIEW A-A
ROUND HEAD BOLT**



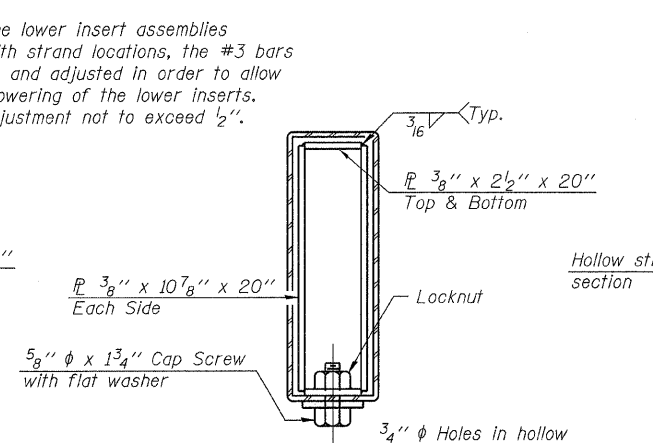
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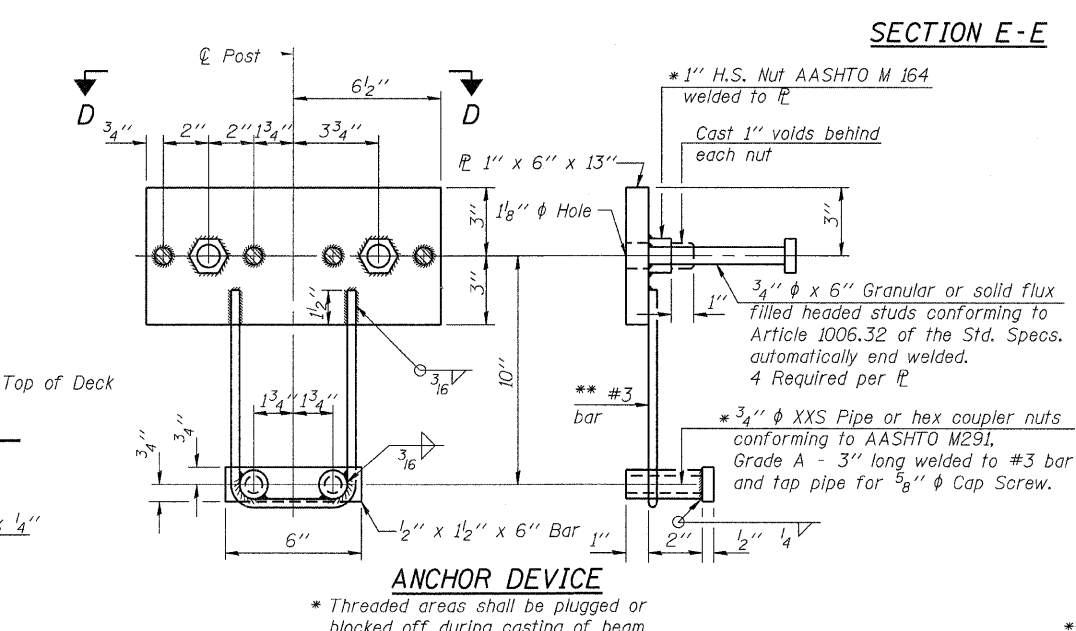
SECTION AT RAILING POST



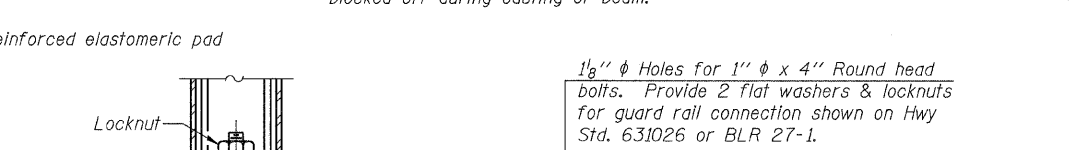
SECTION C-C



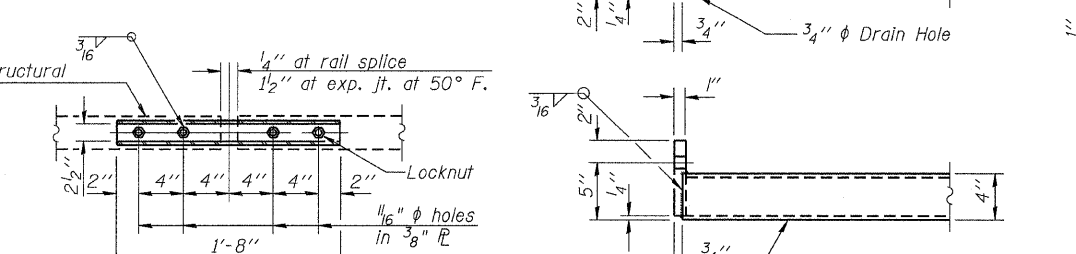
SECTIONS AT RAIL SPLICE



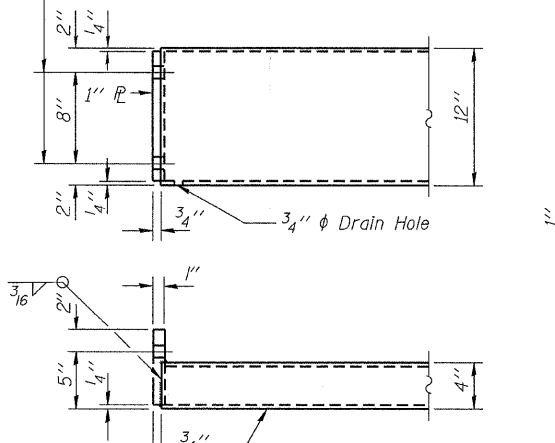
ANCHOR DEVICE



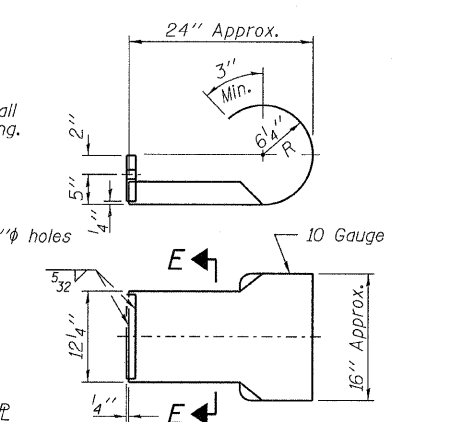
**RAIL SPLICE CONNECTION
AT EXPANSION JT.**



**PLAN-BOTT. SPLICE R
TYPICAL**



END OF RAIL DETAILS



**SECTION E-E
CURLLED 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.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	96

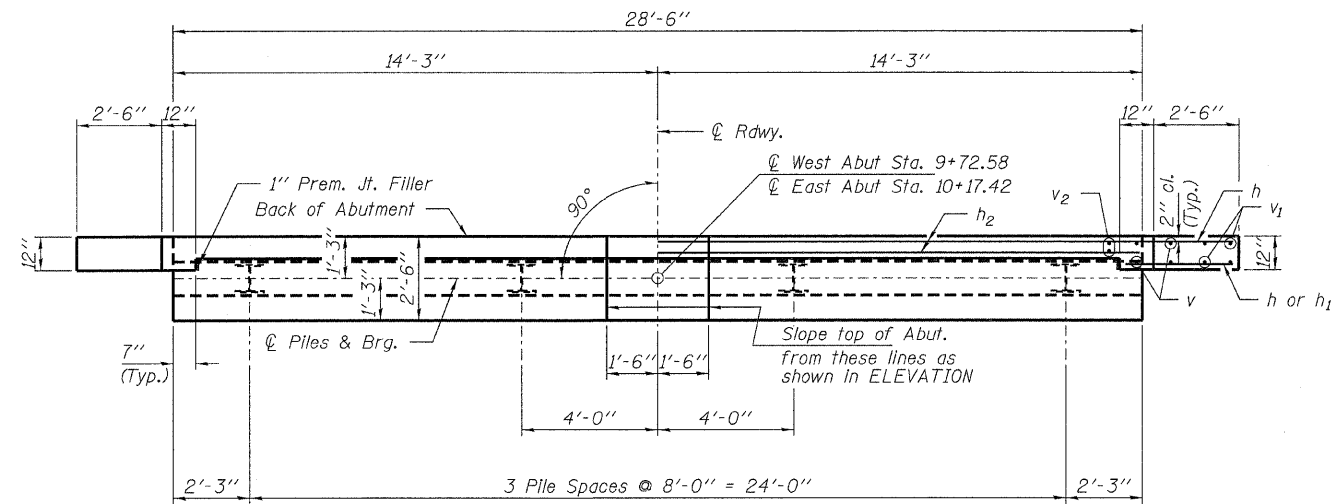
R-23A 7-1-10 (10'-9" Maximum Post Spacing)

FILE NAME = 100322-shr-bridge.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - M.G.B.	REVISED -
3035 STEVENSON DRIVE, SUITE 201		DRAWN - D.T.M.	REVISED -
SPRINGFIELD, ILLINOIS 62702		CHECKED - M.G.B.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM			
LS / PE / SE CORP.			

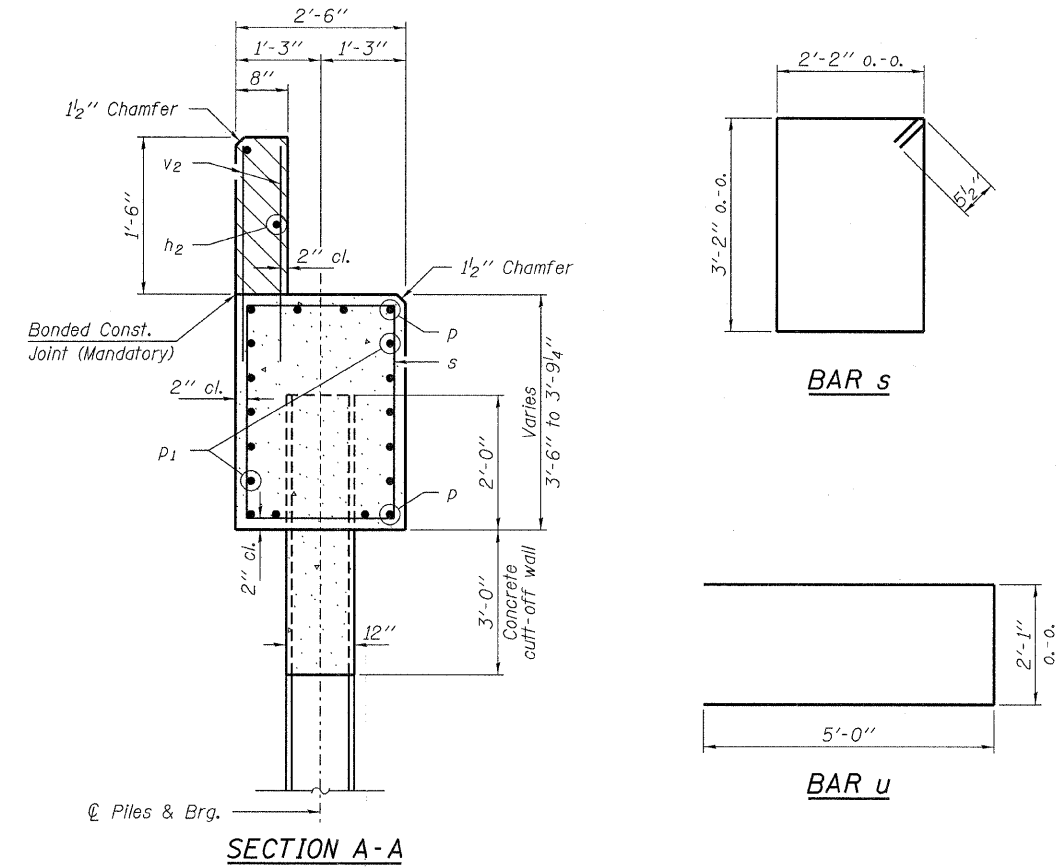
**STATE OF ILLINOIS
VERMILION COUNTY HIGHWAY DEPARTMENT**

**STEEL RAILING, TYPE S-1
STRUCTURE NO. 092-3513**
SHEET NO. 5 OF 8 SHEETS

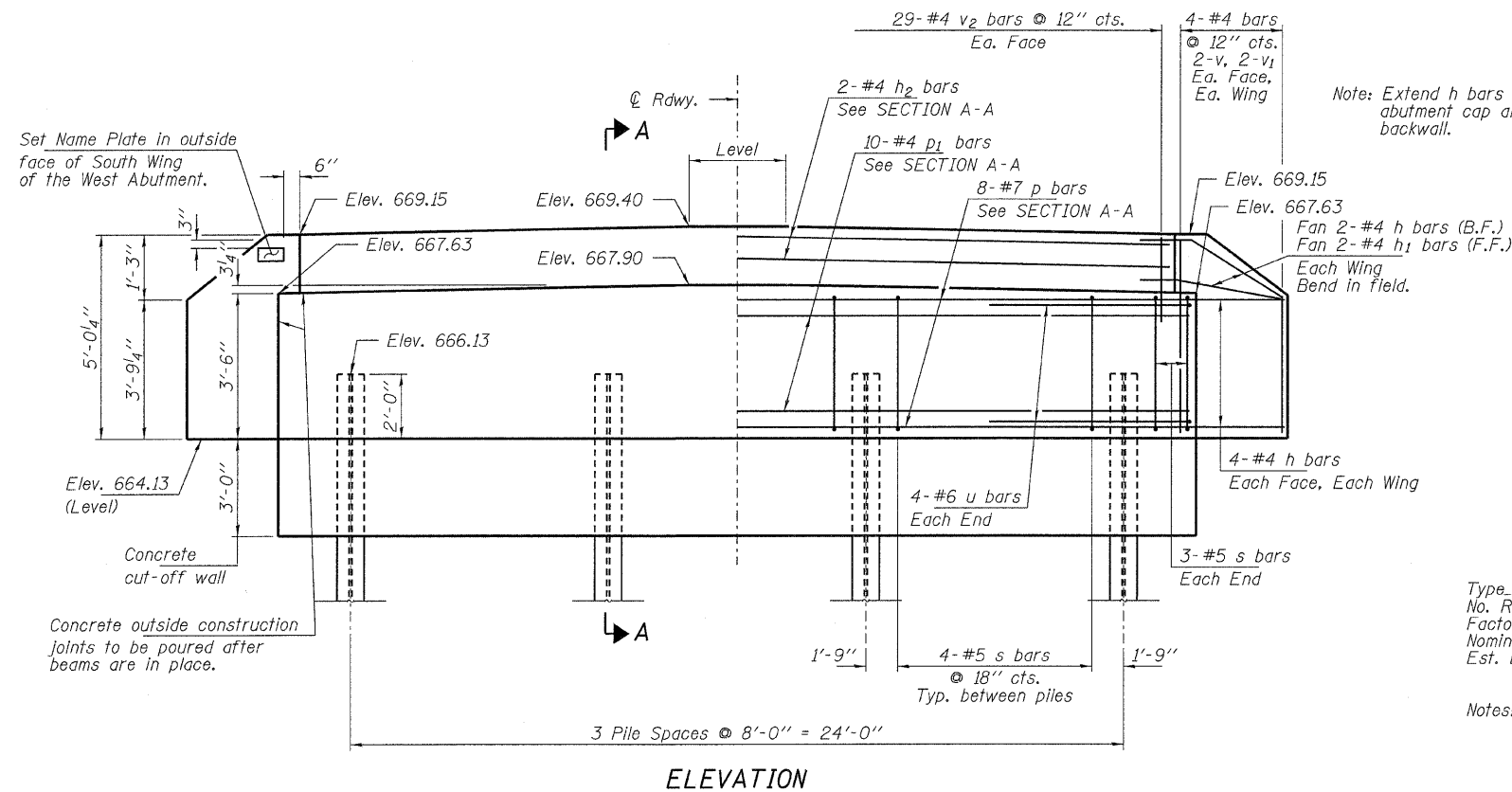
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
225	08-14136-00-BR	VERMILION	21	18
OAKWOOD ROAD DISTRICT			CONTRACT NO.	91457
			ILLINOIS FED. AID PROJECT	



PLAN



SECTION A-A



ELEVATION

PILE DATA

Type ----- Steel Piles HP10x42
 No. Req'd. (2 Abutments) ----- 8
 Factored Resistance Available (Rf) ----- 145 Kips/Pile
 Nominal Required Bearing (Rn) ----- 264 Kips/Pile
 Est. Length ----- 65 Ft./Pile - W. Abut.
 75 Ft./Pile - E. Abut.

Notes: * Includes two test piles to be driven in permanent locations, one at the West Abutment & one at the East Abutment.

The Steel H-Piles shall be according to AASHTO M270 Grade 50.

The test piles shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.

BILL OF MATERIAL - 2 ABUTS.

BAR	NO.	SIZE	LENGTH	SHAPE
h	40	#4	4'-3"	—
h1	8	#4	3'-3"	—
h2	4	#4	28'-2"	—
p	16	#7	28'-2"	—
p1	20	#4	28'-2"	—
s	36	#5	11'-7"	□
u	16	#6	12'-1"	—
v	16	#4	4'-7"	—
v1	16	#4	3'-5"	—
v2	58	#4	2'-4"	—
Concrete Structures			Cu. Yd.	23.3
Concrete Cut-Off Wall			Cu. Yd.	6.4
Reinforcement Bars			Pound	2,400
Steel Piles HP10x42			Foot	420
Test Pile Steel HP10x42			Each	2
Pile Shoes			Each	8
Name Plates			Each	1

FILE NAME = 100322-sht-bridge.dgn
 USER NAME =
 HAMPTON, LENZINI AND RENWICK, INC.
 3335 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62766
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184 000959

DESIGNED - A.S.L.
 CHECKED - M.G.B.
 DRAWN - D.T.M.
 CHECKED - M.G.B.

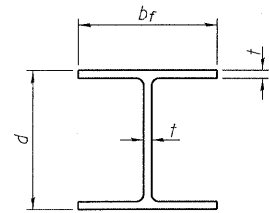
REVISED -
 REVISED -
 REVISED -
 REVISED -

STATE OF ILLINOIS
 VERMILION COUNTY HIGHWAY DEPARTMENT

ABUTMENTS
 STRUCTURE NO. 092-3513

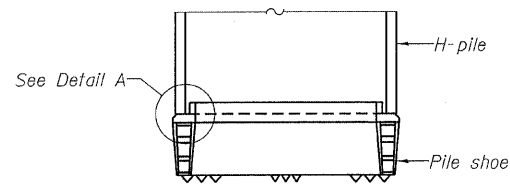
SHEET NO. 6 OF 8 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
225	08-14136-00-BR	VERMILION	21	19
OAKWOOD ROAD DISTRICT			CONTRACT NO. 91457	
ILLINOIS FED. AID PROJECT				

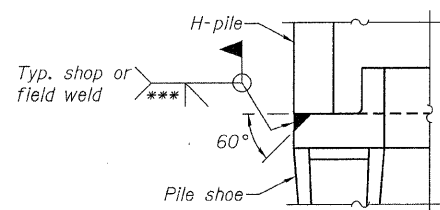


STEEL PILE TABLE

Designation	Depth d	Flange width b _f	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"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"

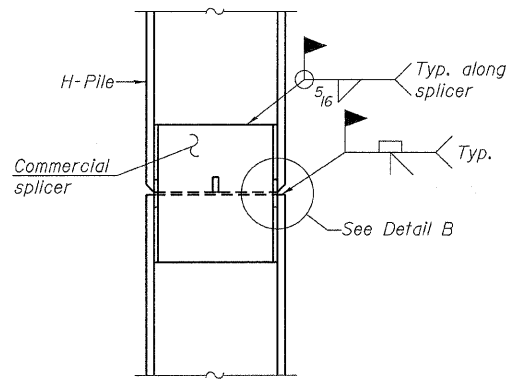


ELEVATION

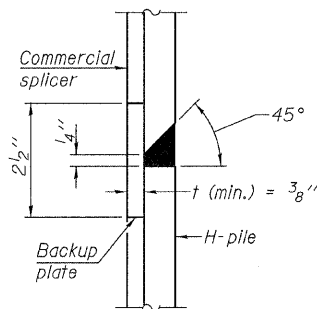


DETAIL A

H-PILE SHOE ATTACHMENT

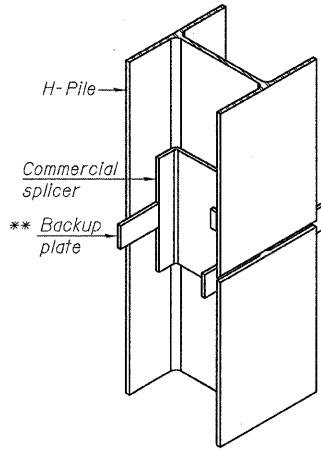


ELEVATION

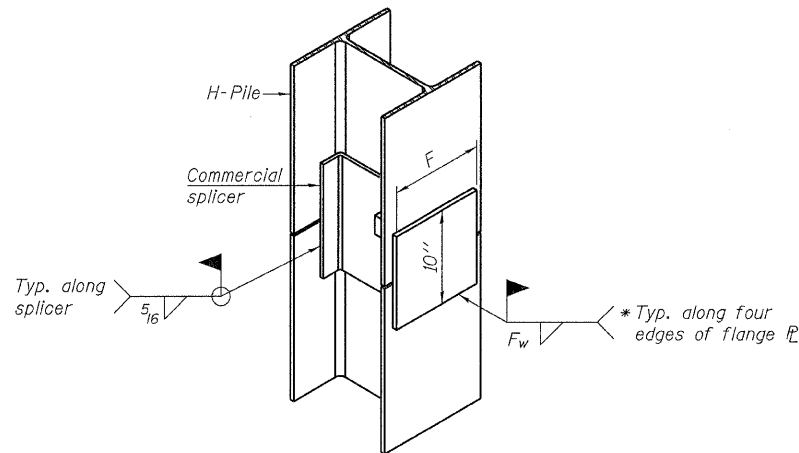


DETAIL "B"

WELDED COMMERCIAL SPLICE



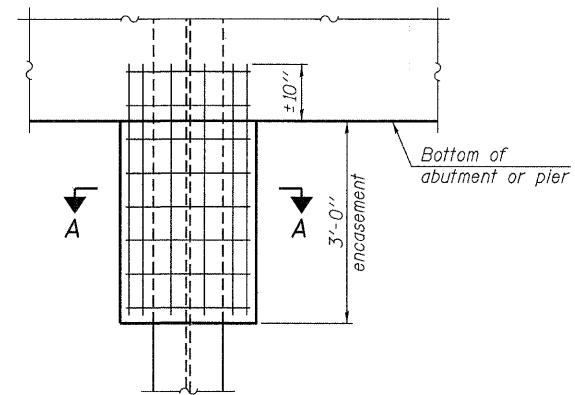
ISOMETRIC VIEW



ISOMETRIC VIEW

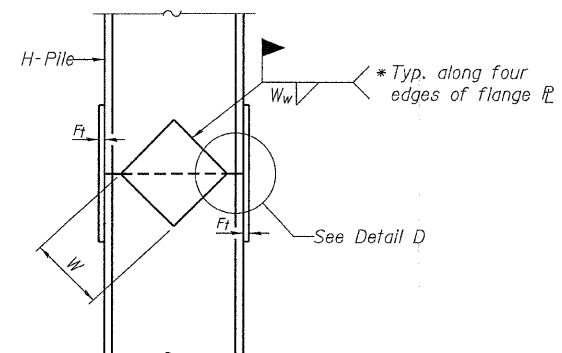
WELDED COMMERCIAL SPLICE ALTERNATE

- * 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.).

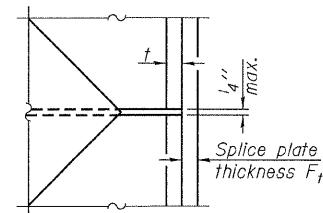


ELEVATION

PILE ENCASEMENT

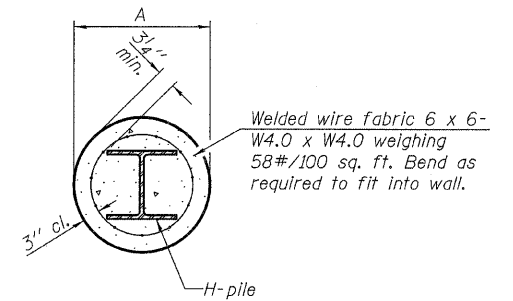


ELEVATION



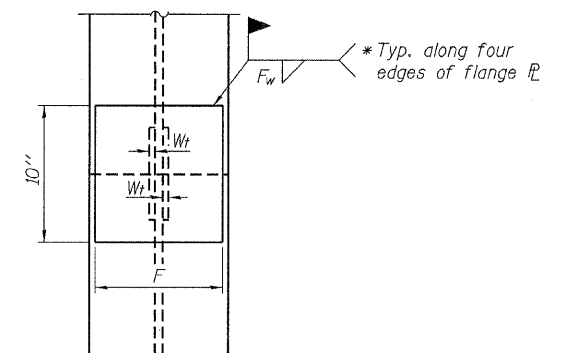
DETAIL D

WELDED PLATE FIELD SPLICE



SECTION A-A

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



END VIEW

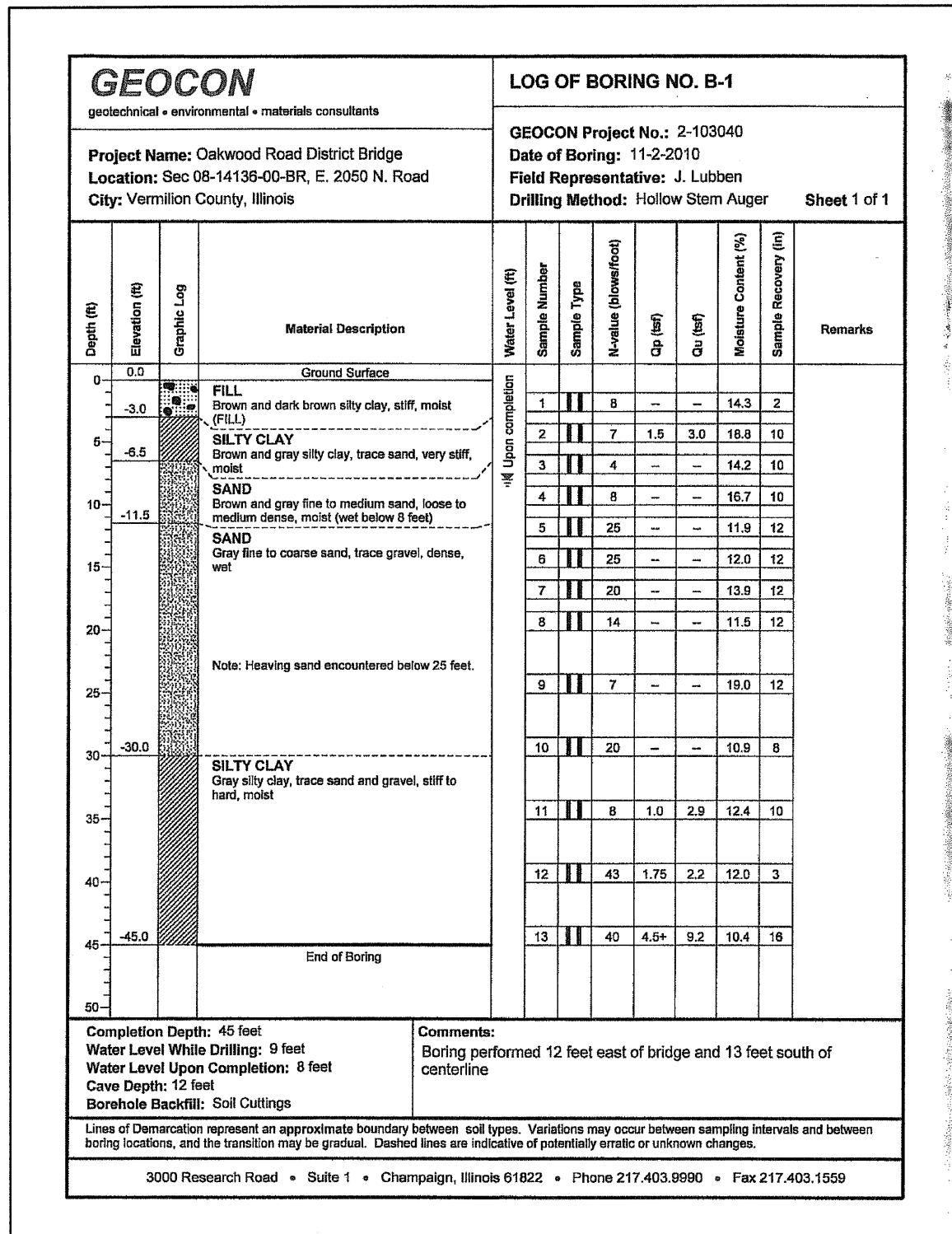
Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5 1/2"	1 1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5 1/2"	1 1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5 1/2"	1 1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5 1/2"	1 1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5 1/2"	1 1/2"
x74	10"	7/8"	1/16"	6 1/2"	5 1/2"	1 1/2"
x63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

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

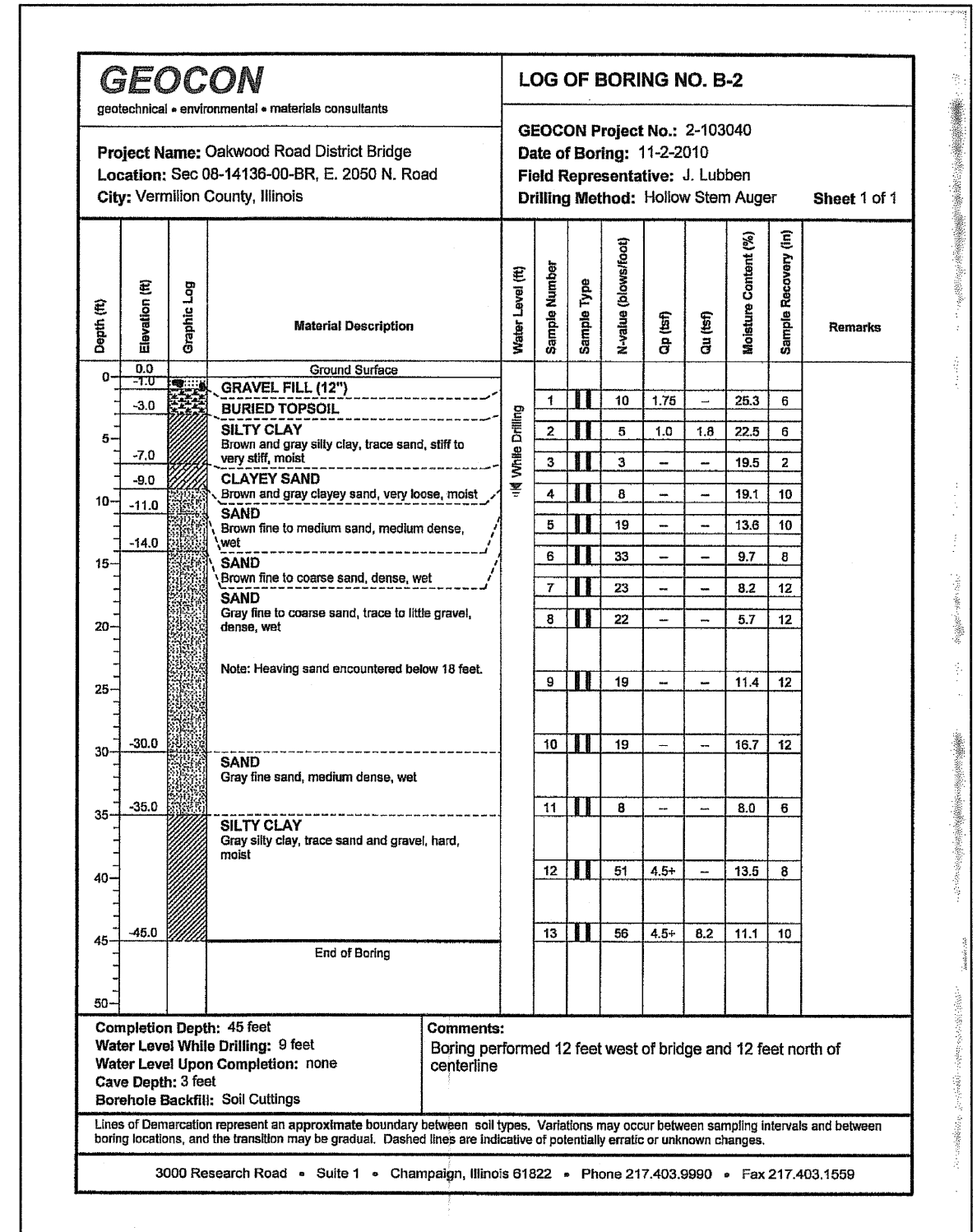
F-HP

7-1-10

FILE NAME = 100322-sht-b-bridge.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -	STATE OF ILLINOIS VERMILION COUNTY HIGHWAY DEPARTMENT	HP PILE DETAILS STRUCTURE NO. 092-3513	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3394 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - M.G.B.	REVISED -			225	08-14136-00-BR	VERMILION	21	20
ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE CORP. 184-000359	PLOT DATE = 3/2/2011	DRAWN - D.T.M.	REVISED -			OAKWOOD ROAD DISTRICT		CONTRACT NO. 91457		
		CHECKED - M.G.B.	REVISED -			SHEET NO. 7 OF 8 SHEETS		ILLINOIS FED. AID PROJECT		



BORING 1



BORING 2