

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 19	09-04131-00-BR	MOULTRIE	25	1
FED. ROAD DIST. NO.		ILLINOIS CONTRACT NO. 95697		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PLANS FOR PROPOSED
HIGHWAY BRIDGE PROGRAM**

PROJECT BROS-0139(061)
SECTION 09-04131-00-BR
LOVINGTON TOWNSHIP
MOULTRIE COUNTY
T.R. 19 / OLD SPRINGFIELD ROAD
PROPOSED STRUCTURE NO. 070-4443
C-97-063-12

INDEX OF SHEETS

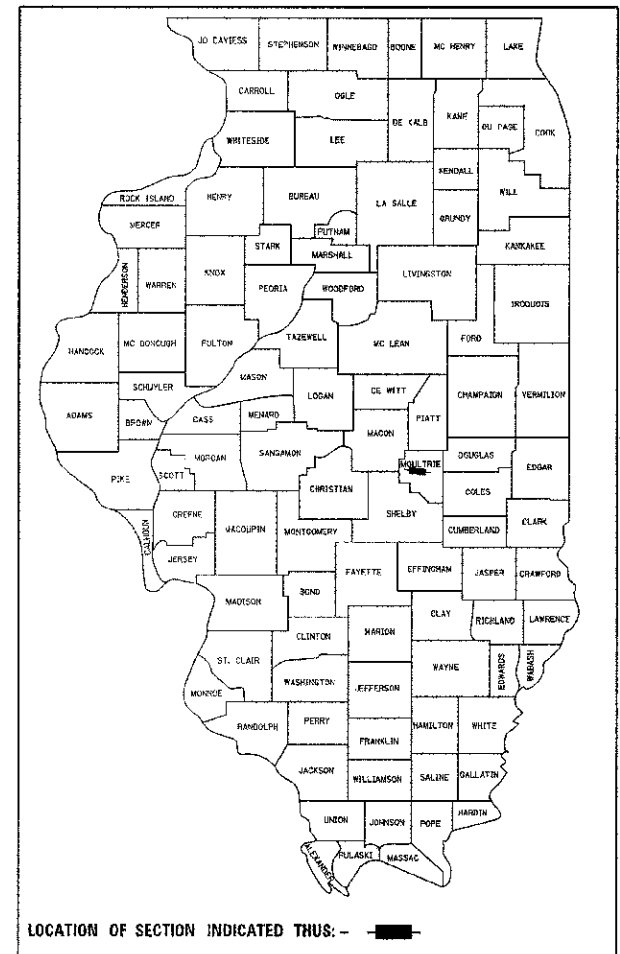
SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	SUMMARY OF QUANTITIES AND GENERAL NOTES
3.	TYPICAL CROSS SECTIONS
4-6.	PLAN & PROFILE
7-15.	STATION CROSS SECTIONS
16-23.	BRIDGE PLANS
24-25.	BORINGS

HIGHWAY STANDARDS:

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
515001-03	NAME PLATE FOR BRIDGES
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
701901-02	TRAFFIC CONTROL DEVICES
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

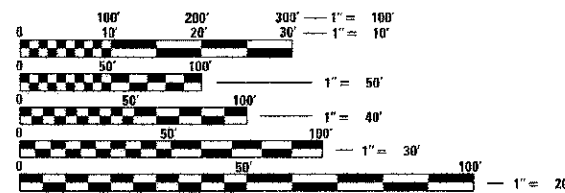
UTILITIES

COLES-MOULTRIE ELECTRIC COOPERATIVE
104 DeWITT AVENUE
PO BOX 709
MATTOON, IL 61938-0709
ATTN: DENNIS RAY

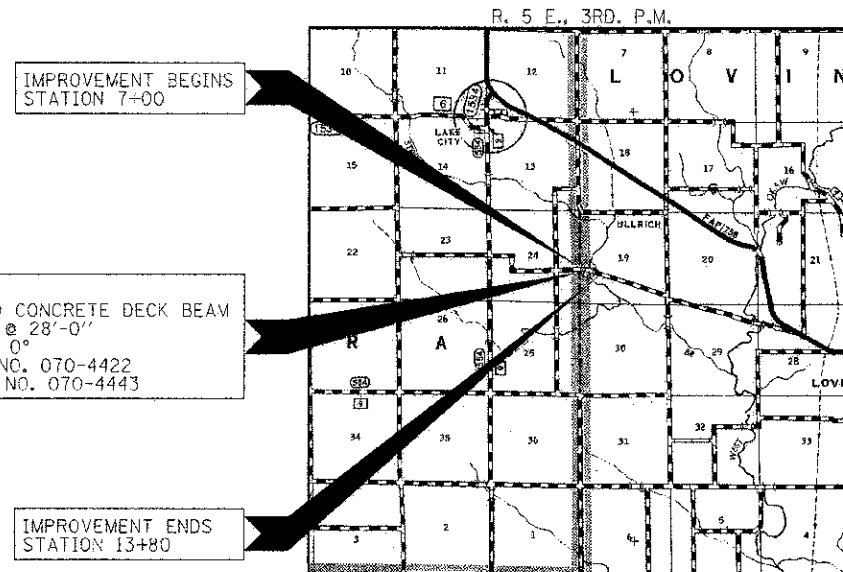


LOCATION OF SECTION INDICATED THUS: - ■ -

FUNCTIONAL CLASSIFICATION: LOCAL ROAD (0-250 ADT)
DESIGN SPEED: 30 MPH
DESIGN TRAFFIC: 125 ADT (2005)



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.

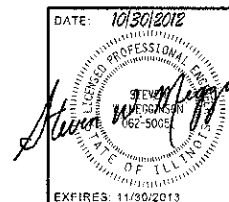


LOCATION MAP

APPROXIMATE SCALE: 0 1 MILE
NET LENGTH OF SECTION = 680 FEET = 0.129 MILES



ILLINOIS DEPARTMENT OF TRANSPORTATION	
APPROVED	NOVEMBER 5 2012 <i>Jeffrey B. Cook</i> COUNTY ENGINEER
APPROVED	November 5 2012 <i>Glenn Cohen</i> TOWNSHIP COMMISSIONER
PASSED	11/15 2012 <i>Maureen Carroll</i> DISTRICT SEVEN ENGINEER OF LOCAL ROADS & STREETS
Releasing For Bid Based on Limited Review	11-15 2012 <i>Roger A. Swadlow</i> DEPUTY DIRECTOR OF HIGHWAYS REGION FOUR ENGINEER STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION



HAMPTON, LENZINI AND RENWICK, INC.
CIVIL ENGINEERS • STRUCTURAL ENGINEERS • LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
217.548.3400 www.hirengineering.com

CONTRACT NO. 95697

SUMMARY OF QUANTITIES			
ITEM NO.	ITEM	UNT	TOTAL
			CONSTRUCTION TYPE CODE 0011
20200100	EARTH EXCAVATION	CU YD	190
20300100	CHANNEL EXCAVATION	CU YD	70
20400800	FURNISHED EXCAVATION	CU YD	1475
28100207	STONE RIPRAP, CLASS A4	TON	350
28200200	FILTER FABRIC	SQ YD	445
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	600
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	48.0
50300280	CONCRETE ENCASEMENT	CU YD	14.6
50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	2352
50800105	REINFORCEMENT BARS	POUND	4660
50900205	STEEL RAILING, TYPE S1	FOOT	166
51201400	FURNISHING STEEL PILES HP10X42	FOOT	630
51202305	DRIVING PILES	FOOT	630
51203400	TEST PILE STEEL HP10X42	EACH	2
51500100	NAME PLATES	EACH	1
54200220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	72
67100100	MOBILIZATION	L SUM	1
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.65

^ SEE SPECIAL PROVISIONS

* SPECIALTY ITEMS

GENERAL NOTES

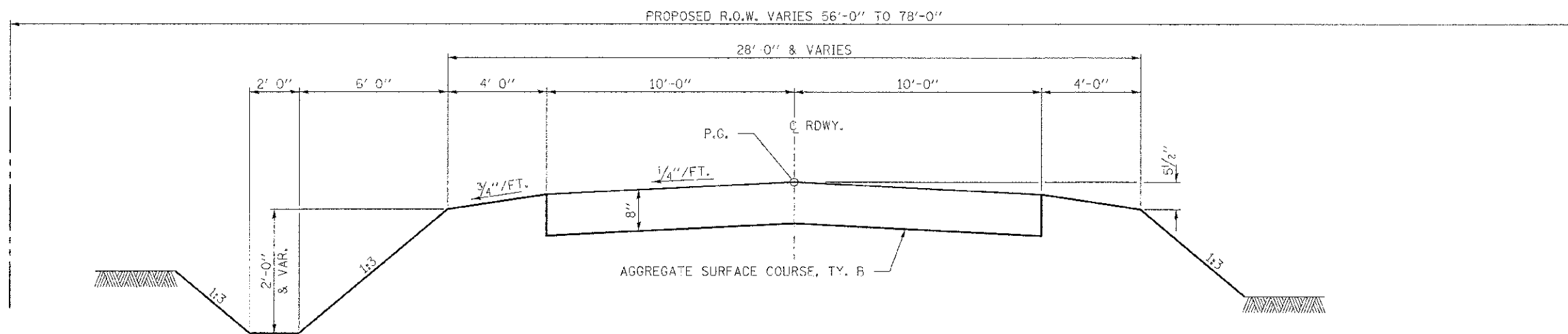
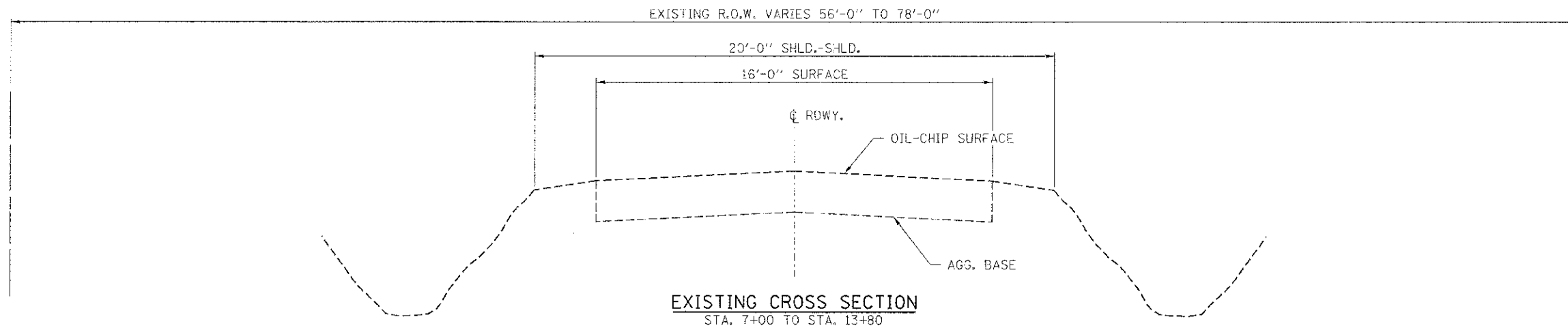
- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2012," THESE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- ALL CLEARING AND GRUBBING, FENCE REMOVAL AND REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. THE REMOVAL OF THE EXISTING ROADWAY SURFACE 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 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, TYPE B	2.05 TON/CU YD
STONE RIPRAP, CLASS A4	1.75 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) = 0.65 ACRES

ROADWAY SCHEDULE	
LOCATION	AGGREGATE SURFACE COURSE TYPE B 8"
	40200800 TON
TR 19	
STA 7+00 TO STA 9+57.25	257
STA 10+42.75 TO STA 13+80	338
TOTAL	595
USE	600

EARTHWORK SCHEDULE							
LOCATION	EARTH EXCAVATION	CHANNEL EXCAVATION	SHRINKAGE FACTOR	PERCENT USED	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT REQUIRED	EARTHWORK BALANCE
	20200100	20300100					
	CU.YD.	CU.YD.			CU.YD.	CU.YD.	CU.YD.
TR 19							
STA 7+00 TO STA 9+57.25	55		25.00%	100.00%	41	581	-540
STA 9+57.25 TO STA 10+42.75		70	25.00%	70.00%	37	0	37
STA 10+42.75 TO STA 13+80	134		25.00%	100.00%	101	1027	-926
ADDITIONAL ITEMS:							
EXCAVATION FOR RIPRAP		(280)	25.00%	50.00%	105		105
ENTRANCE EMBANKMENT						150	-150
TOTAL	189	70			284	1758	-1474
USE	190	70					1475

FURNISHED EXCAVATION = 1475 CU YDS

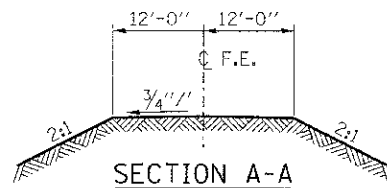
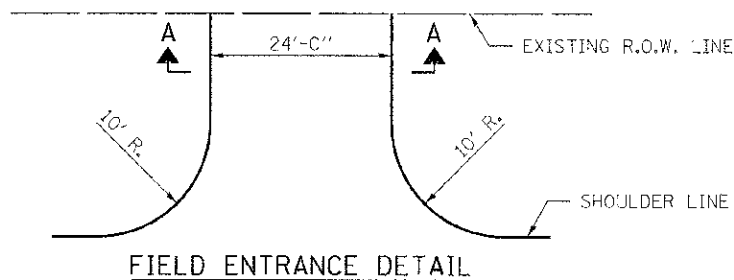


SUGGESTED CUT SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

PROPOSED TYPICAL CROSS SECTION
STA. 7+00 TO 13+80

TRANSITION FROM EXISTING ROADWAY TO PROPOSED
ROADWAY TO BE CONSTRUCTED FROM STA. 7+00 TO
STA. 7+50 AND FROM STA. 13+30 TO STA. 13+80.
SEE SHEET 16 FOR TRANSITION AT THE BRIDGE.

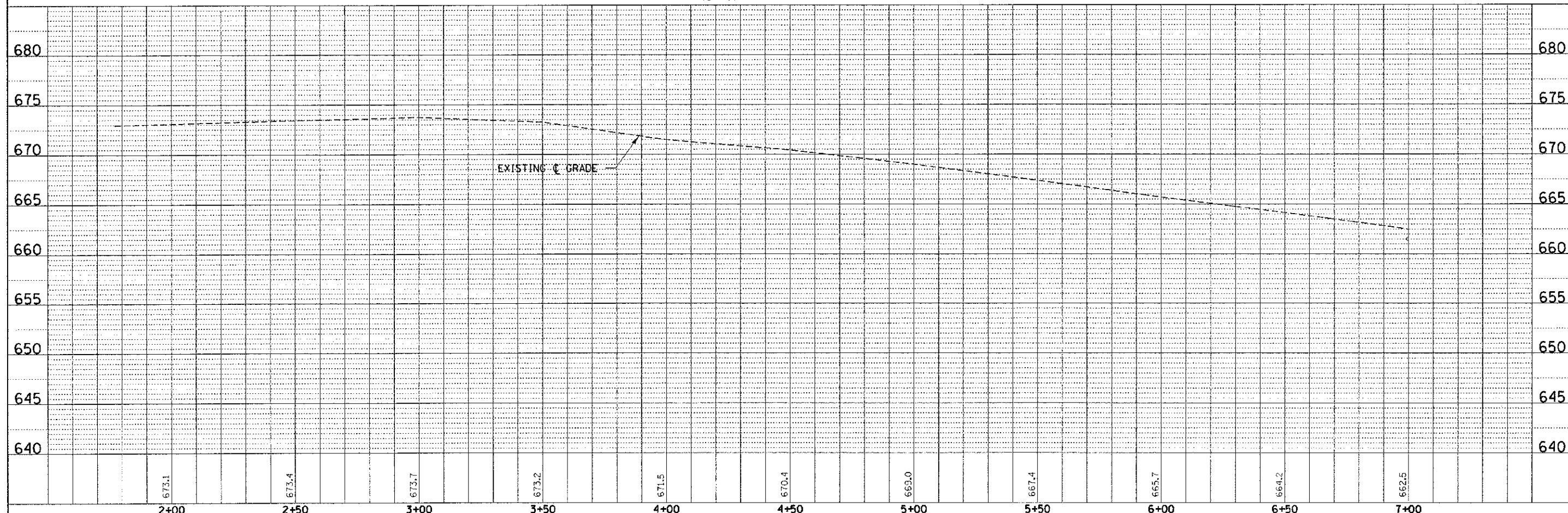
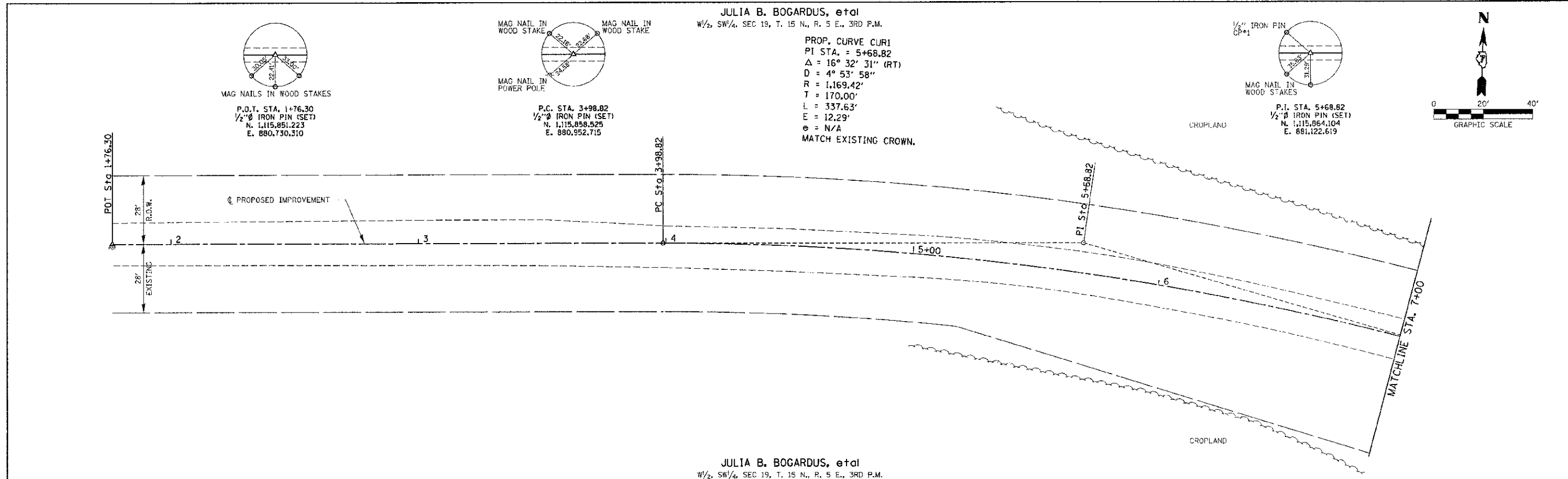
SUGGESTED FILL SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS



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HAMPTON, LENZINI AND RENWICK, INC. 5525 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	DRAWN - D.A.B.	REVISED -	19			09-04131-00-BR	MOULTRIE	25	3	
ILLINOIS PROFESSIONAL DESIGN FIRM LSI/FE/SE CORP. 184002859	CHECKED - S.W.M.	REVISED -	LOVINGTON ROAD DISTRICT			CONTRACT NO. 95697				
PLOT SCALE =	DATE - 10/30/12	REVISED -	SCALE: SHEET NO. 1 OF 1 SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT				

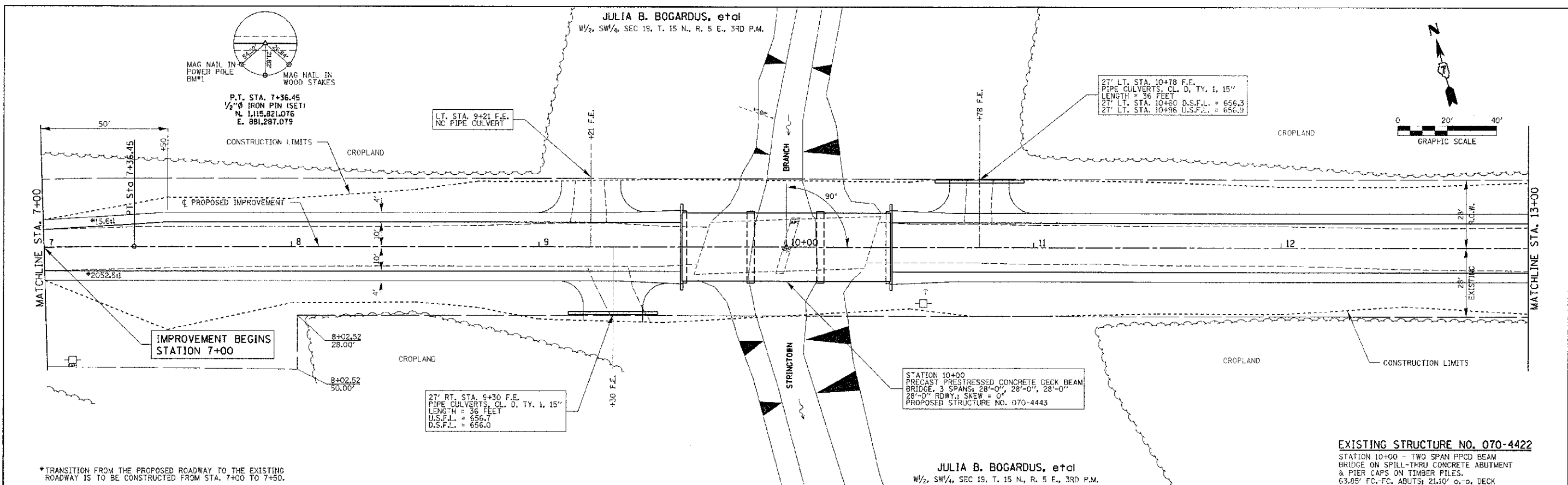
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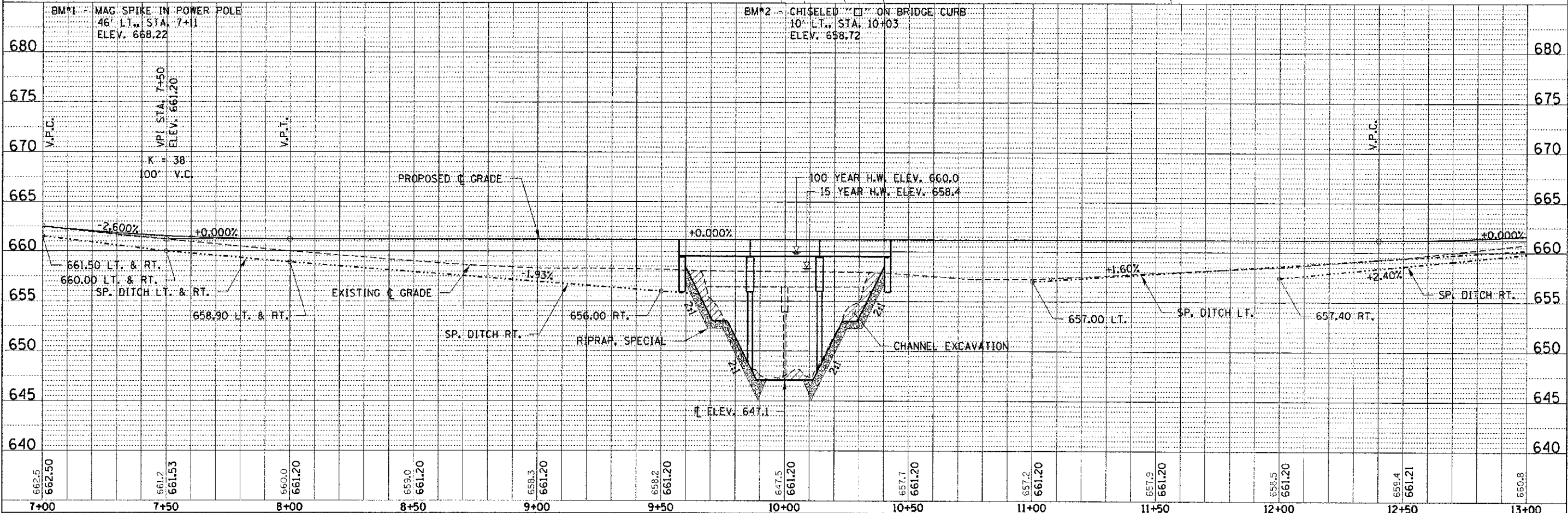


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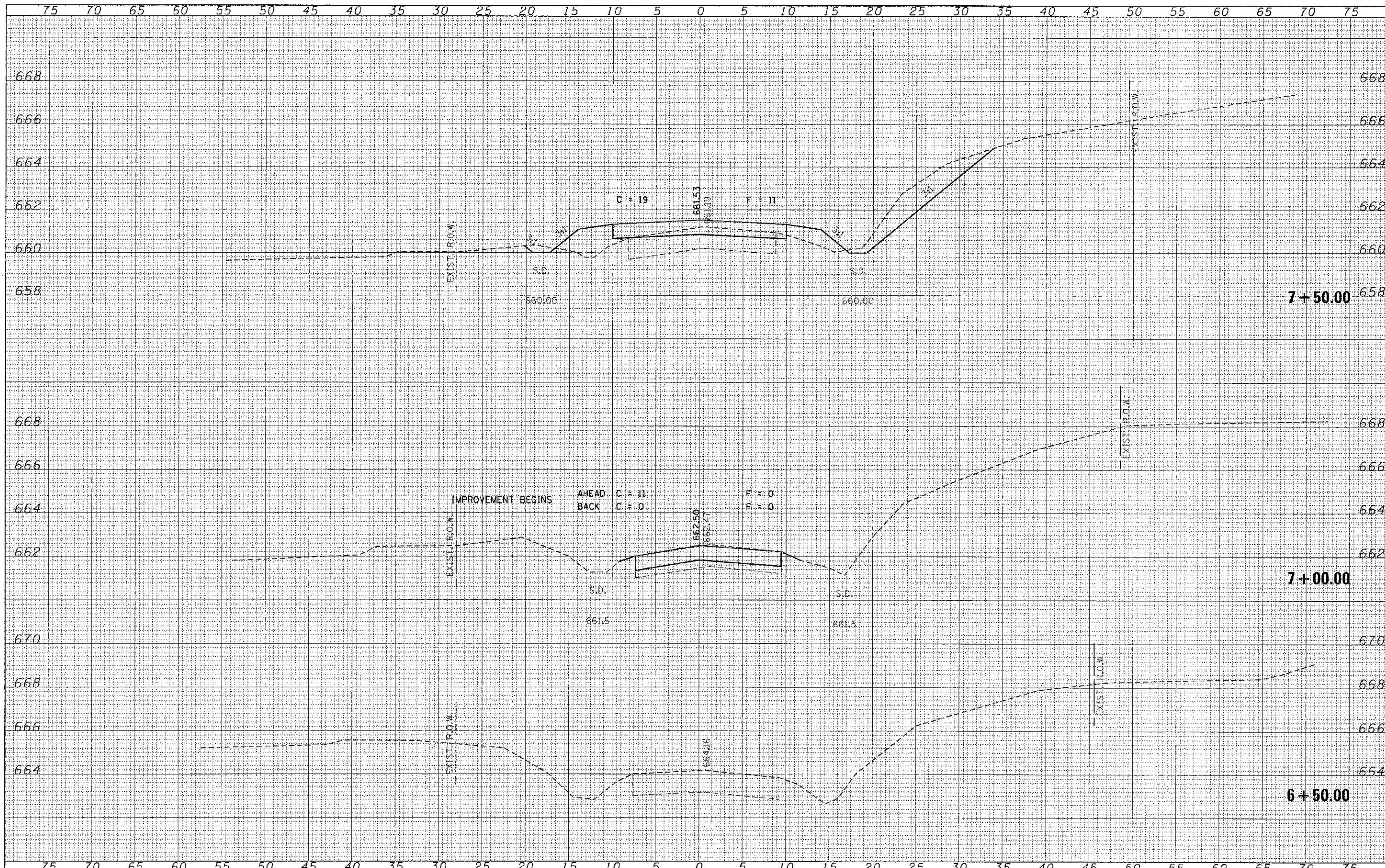
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HAMPTON, LENZINI AND RENWICK, INC. 3030 W. WASHINGTON ST. #200 MOUNTAIN VIEW, IL 60056		DRAWN - D.T.M.	REVISED -					19	09-04131-00-BR	MOULTRIE	25
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				SCALE: H20V5	SHEET NO. 2 OF 3 SHEETS	STA.	TO STA.				

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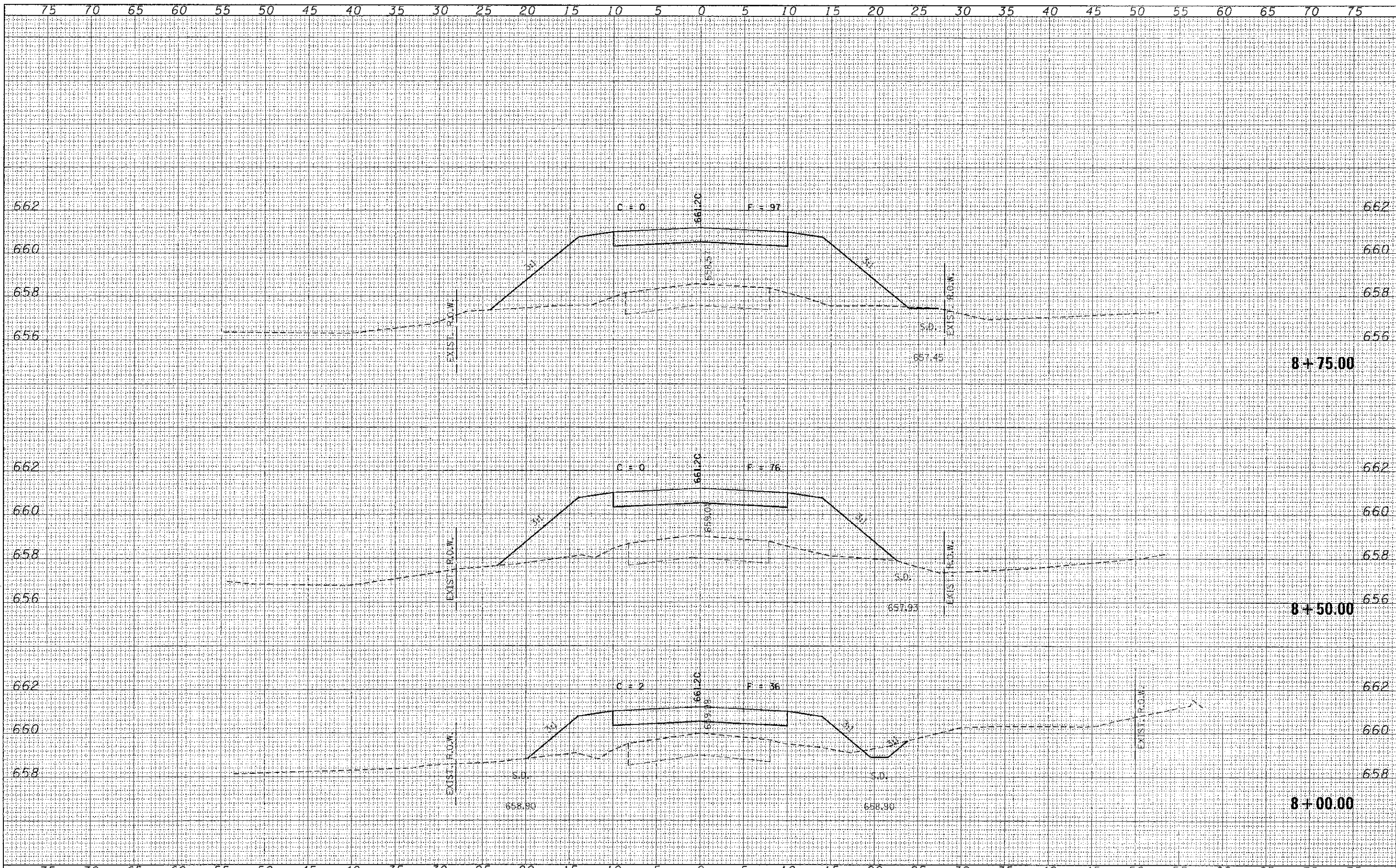
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HAMPTON, LENZINI AND RENWICK, INC. 308 STEVENSON DRIVE, SUITE 201 JUPITER, ILLINOIS 62450	PLLY SCALE =	DRAWN - D.T.M.	REVISED -			19	09-04131-00-BR	MOULTRIE	25	7
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		DATE - 10/30/12	REVISED -	SCALE: H20xV5	SHEET NO. 1 OF 9 SHEETS	STA. 6+50.00	TO STA. 7+50.00			

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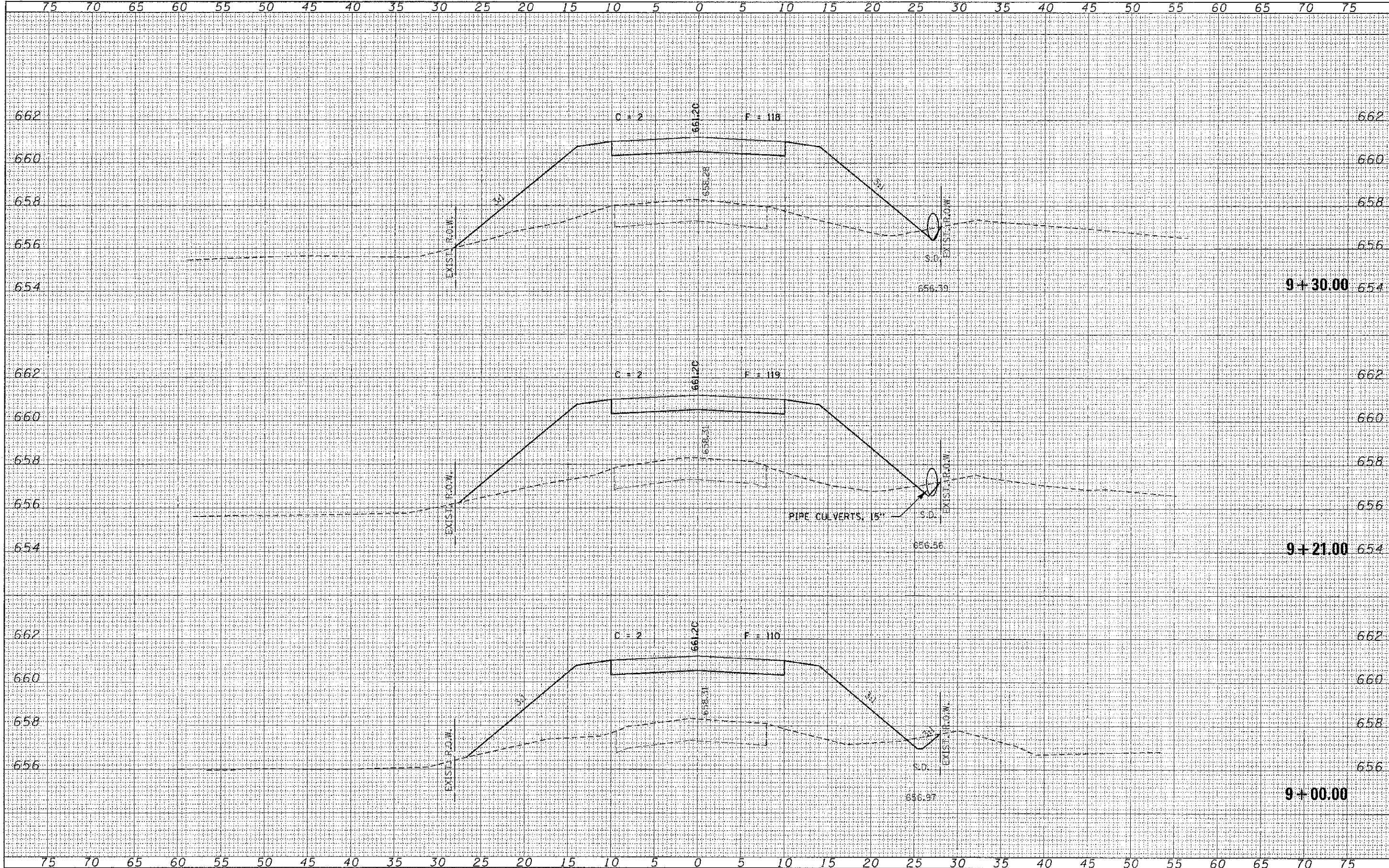
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HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - D.T.M.	REVISED -	19	09-04131-00-BR	MOULTRIE	25	8
1110 S. PROFESSIONAL DESIGN FIRM	PLOT SCALE =	CHECKED - S.W.M.	REVISED -	LOVINGTON ROAD DISTRICT		CONTRACT NO. 95697		
ILLINOIS PROFESSIONAL DESIGN FIRM	PLOT DATE = 10/30/2012	DATE - 10/30/12	REVISED -	ILLINOIS		FED. AID PROJECT		
STATE OF ILLINOIS MOULTRIE COUNTY HIGHWAY DEPARTMENT	SCALE: H20:V5		SHEET NO. 2 OF 9 SHEETS		STA. 8+00.00 TO STA. 8+75.00			

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FINAL SURVEY	
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ORIGINAL SURVEY	
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AREAS CHECKED	
NO.	



FILE NAME = 090171-drt-road.dgn
 HAMPTON, LENZINI AND RENWICK, INC.
 1000 THE VANDERBILT DRIVE, SUITE 201
 SPRINGFIELD, IL 62761-1073
 ILLINOIS PROFESSIONAL DESIGN FIRM
 REG. NO. 021200

USER NAME =
 PLOT SCALE =
 PLOT DATE = 10/30/2012

DESIGNED - A.S.L.
 DRAWN - D.T.M.
 CHECKED - S.W.M.
 DATE - 10/30/12

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STATE OF ILLINOIS
 MOULTRIE COUNTY HIGHWAY DEPARTMENT

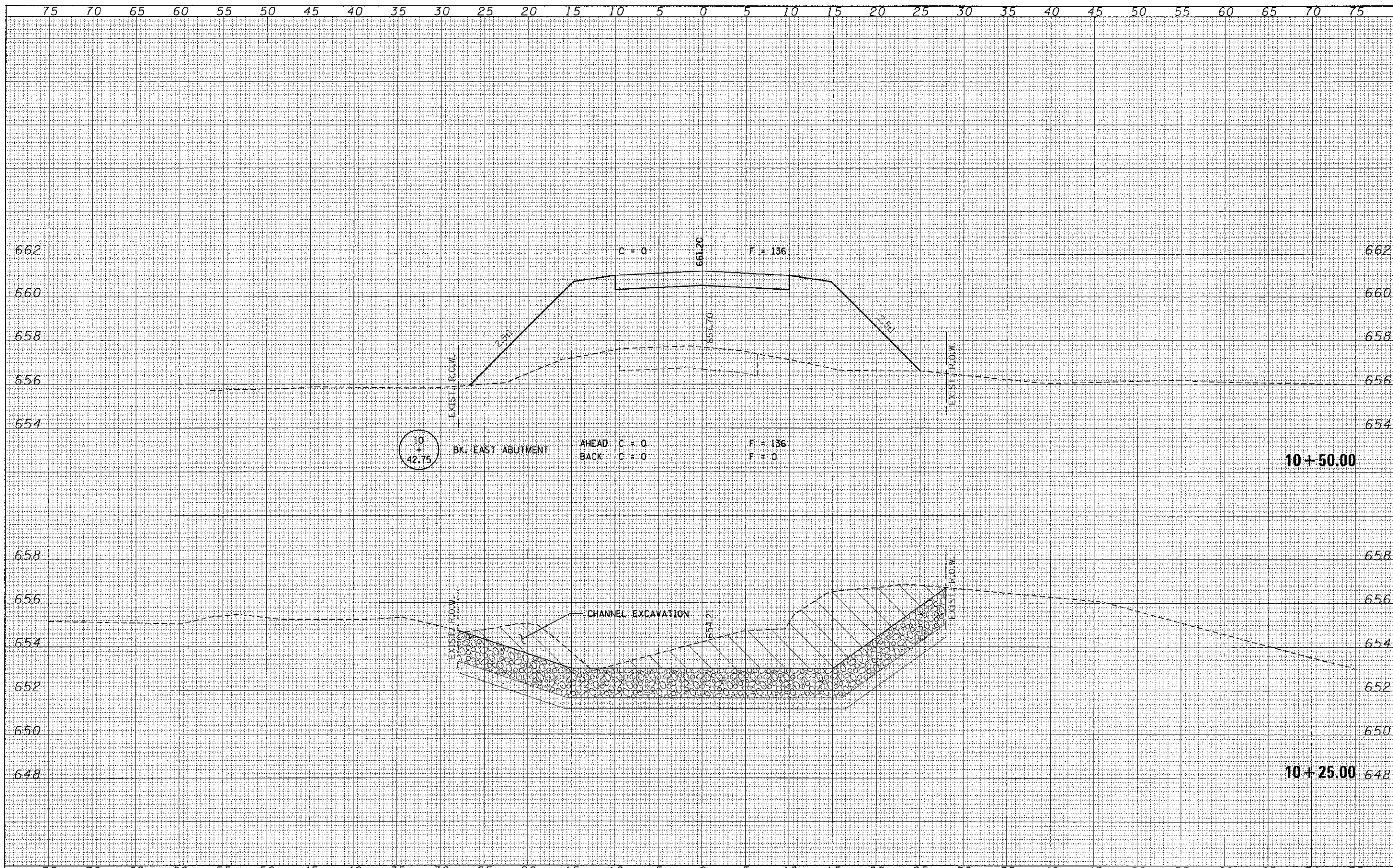
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 SHEET NO. 3 OF 9 SHEETS
 STA. 9+00.00 TO STA. 9+30.00

STATION CROSS SECTIONS
 T.R. 19 / 2225N ROAD

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19	09-04131-00-BR	MOULTRIE	25	9
LOVINGTON ROAD DISTRICT			CONTRACT NO. 95697	
ILLINOIS FED. AID PROJECT				

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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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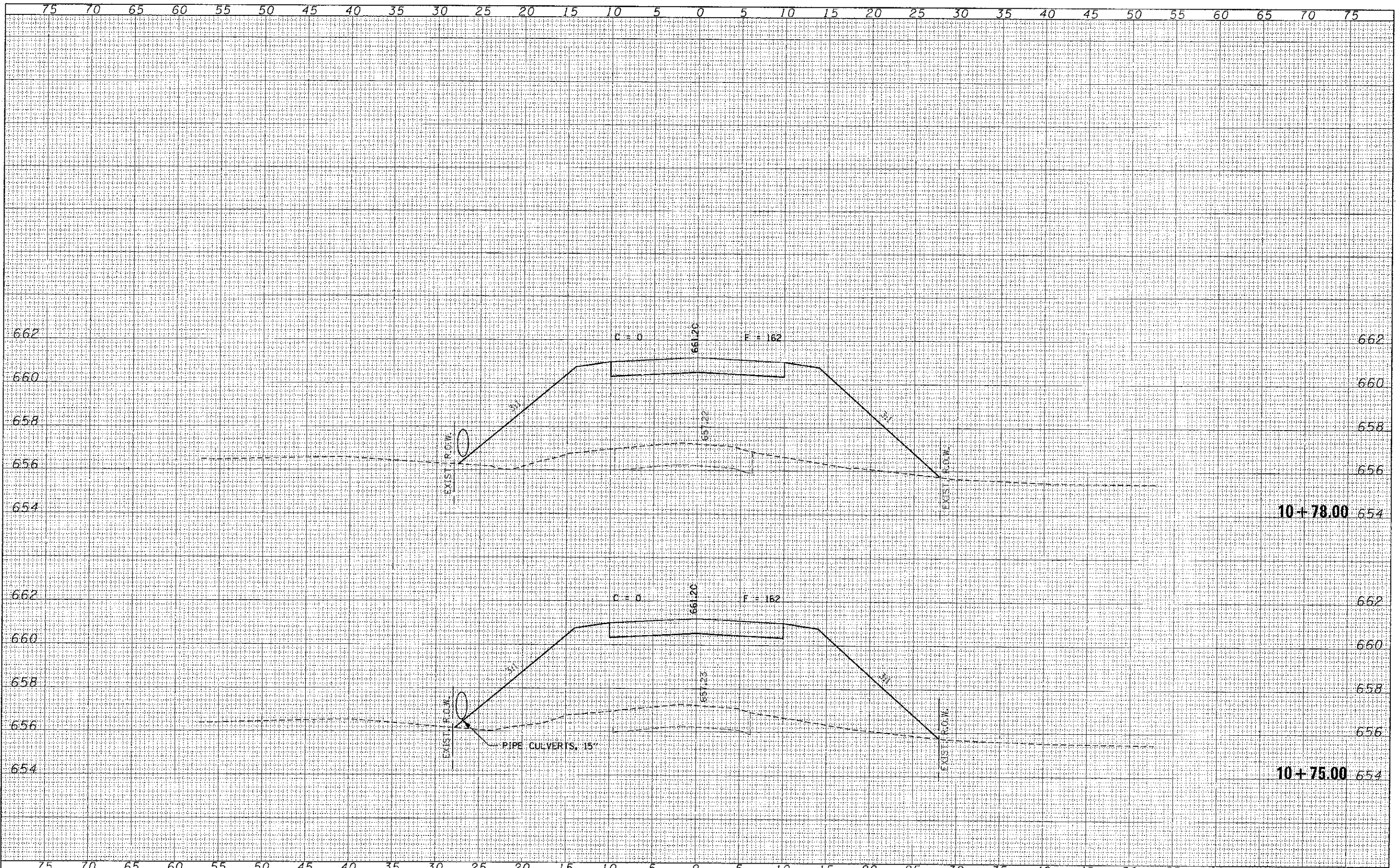
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NO.	AREAS CHECKED



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HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - D.T.M.	REVISED -		19	09-04131-0C-BR	MOULTRIE	25	11	
300 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, IL 62761-6708	PLLOT SCALE =	CHECKED - S.W.M.	REVISED -		LOVINGTON ROAD DISTRICT		CONTRACT NO. 95697			
ILLINOIS PROFESSIONAL DESIGN FIRM L87P21/SEC-DRP 164-90859	PLLOT DATE = 10/30/2012	DATE - 10/30/12	REVISED -		SCALE: H20:V5	SHEET NO. 5 OF 9 SHEETS	STA. 10+25.00	TO STA. 10+50.00	ILLINOIS FED. AID PROJECT	

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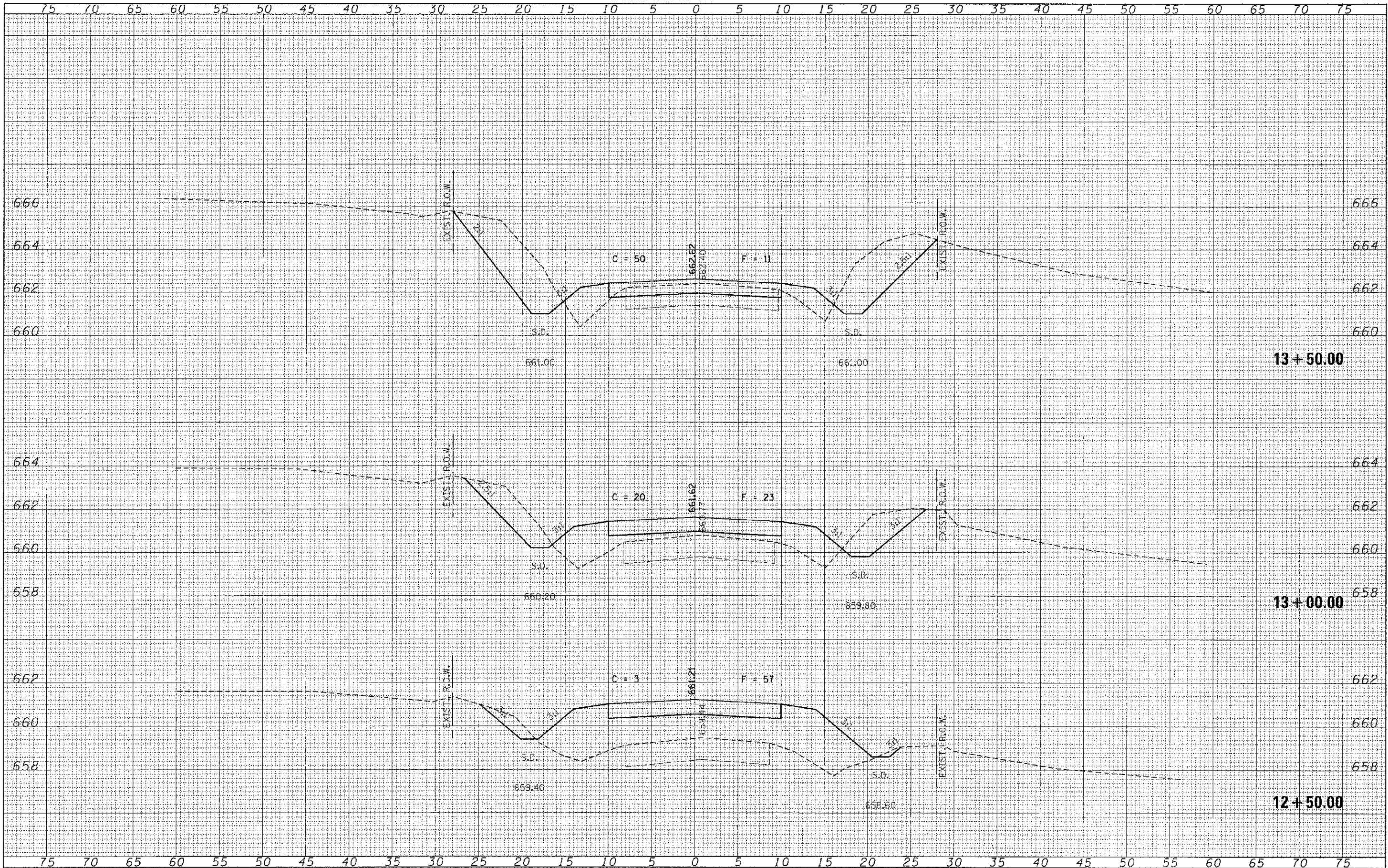
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HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - D.T.M.	REVISED -		19	09-04131-00-BR	MOULTRIE	25	12		
ILLINOIS PROFESSIONAL DESIGN FIRM		CHECKED - S.W.M.	REVISED -		LOVINGTON ROAD DISTRICT		CONTRACT NO. 95697				
1517 E / 96 00' W 13400099		DATE - 10/30/12	REVISED -		SCALE: H20xV5	SHEET NO. 6 OF 9 SHEETS	STA. 10+75.00	TO STA. 10+78.00	ILLINOIS FED. AID PROJECT		

FINAL SURVEY	DATE
SURVISED	BY
PLOTTED	
TEMPERATURE	
AREAS	
AREAS CHECKED	

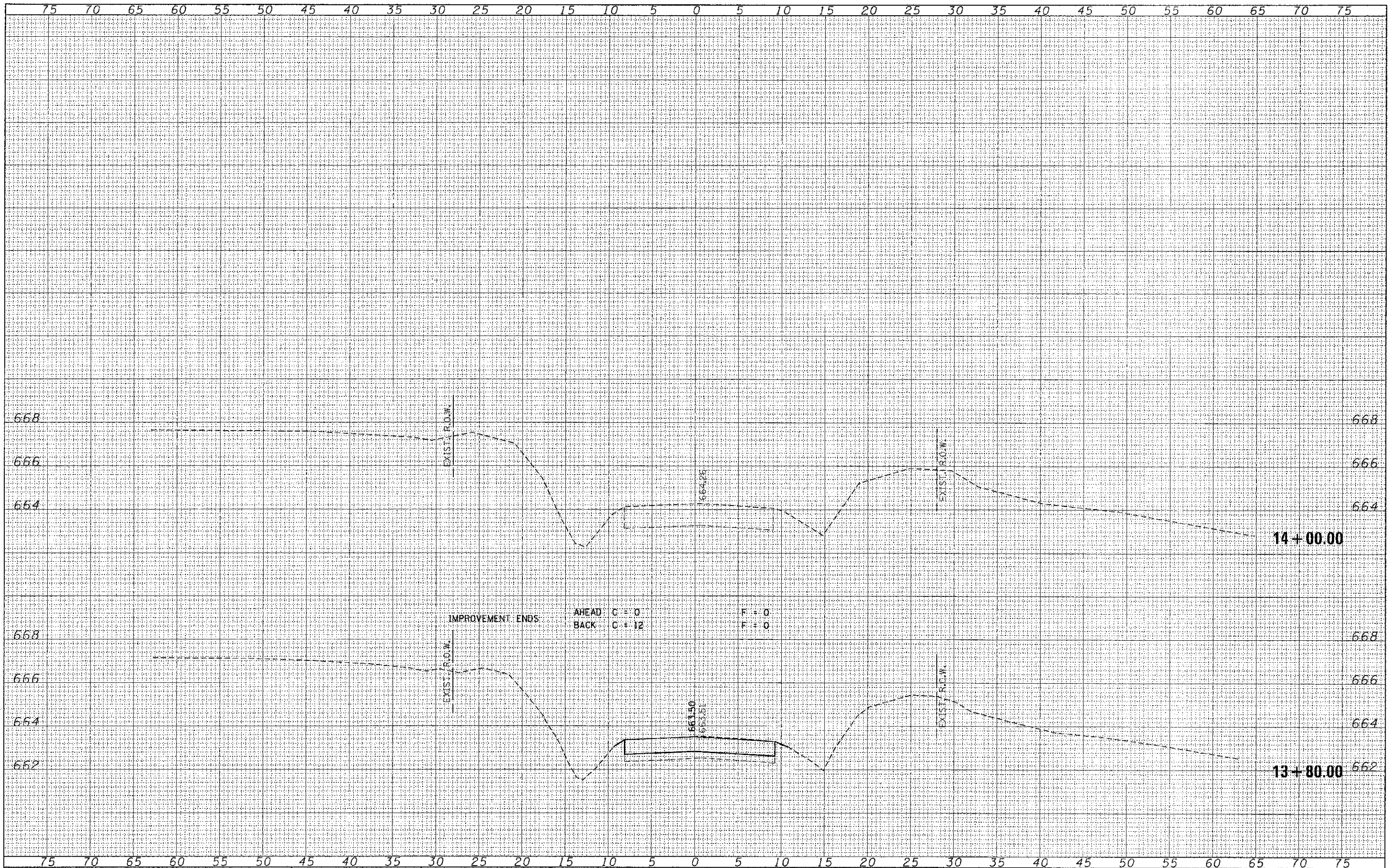
ORIGINAL SURVEY	DATE
SURVISED	BY
PLOTTED	
TEMPERATURE	
AREAS	
AREAS CHECKED	



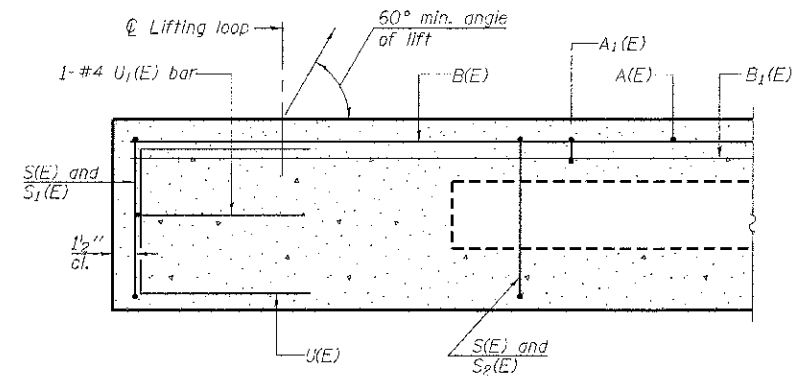
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HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - D.T.M.	REVISED -		19	09-04131-00-BR	MOULTRIE	25	14	
1312 STEVENSON DRIVE, SUITE 201		CHECKED - S.W.M.	REVISED -		LOVINGTON ROAD DISTRICT	CONTRACT NO. 95697				
SPRINGFIELD, ILLINOIS 62733		DATE - 10/30/12	REVISED -		ILLINOIS FED. AID PROJECT					
SCALE: H20:V5	SHEET NO. 8 OF 9 SHEETS	STA. 12+50.00	TO STA. 13+50.00							

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

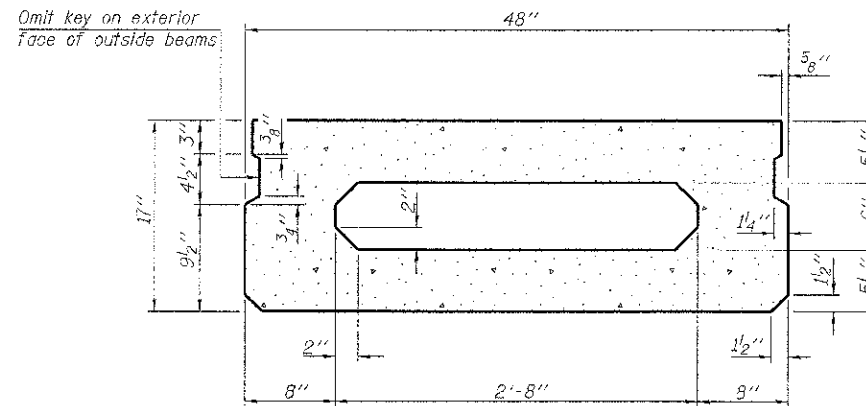
ORIGINAL	BY	DATE
SURVEYED		
PLOTTED		
TEMPLATE		
NOTE BOOK		
AREAS CHECKED		
NO.		



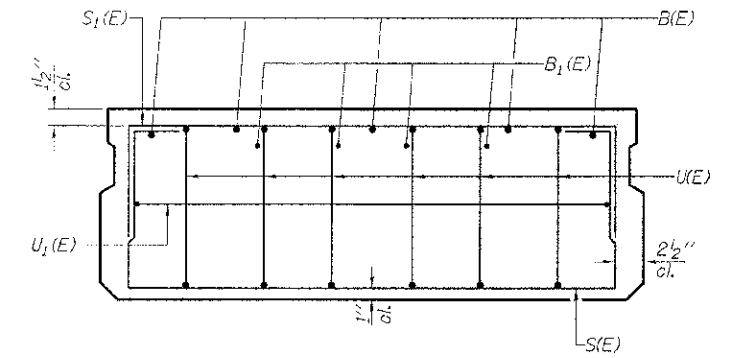
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HAMPTON, LENZINI AND RENWICK, INC. 3805 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62779		DRAWN - D.T.M.	REVISED -	19	09-04131-00-BR	MOLLTRIE	25 15
HLR ILLINOIS PROFESSIONAL DESIGN FIRM L.S. - P.P. 7-85 225P 164.000810	PLOT SCALE =	CHECKED - S.W.V.	REVISED -	LOVINGTON ROAD DISTRICT		CONTRACT NO. 95697	
	PLOT DATE = 10/30/12	DATE - 10/30/12	REVISED -	SCALE: H20V5		SHEET NO. 9 OF 9 SHEETS	STA. 13+80.00 TO STA. 14+00.00
STATE OF ILLINOIS MOULTRIE COUNTY HIGHWAY DEPARTMENT				STATION CROSS SECTIONS T.R. 19 / 2225N ROAD			
ILLINOIS FED. AID PROJECT							



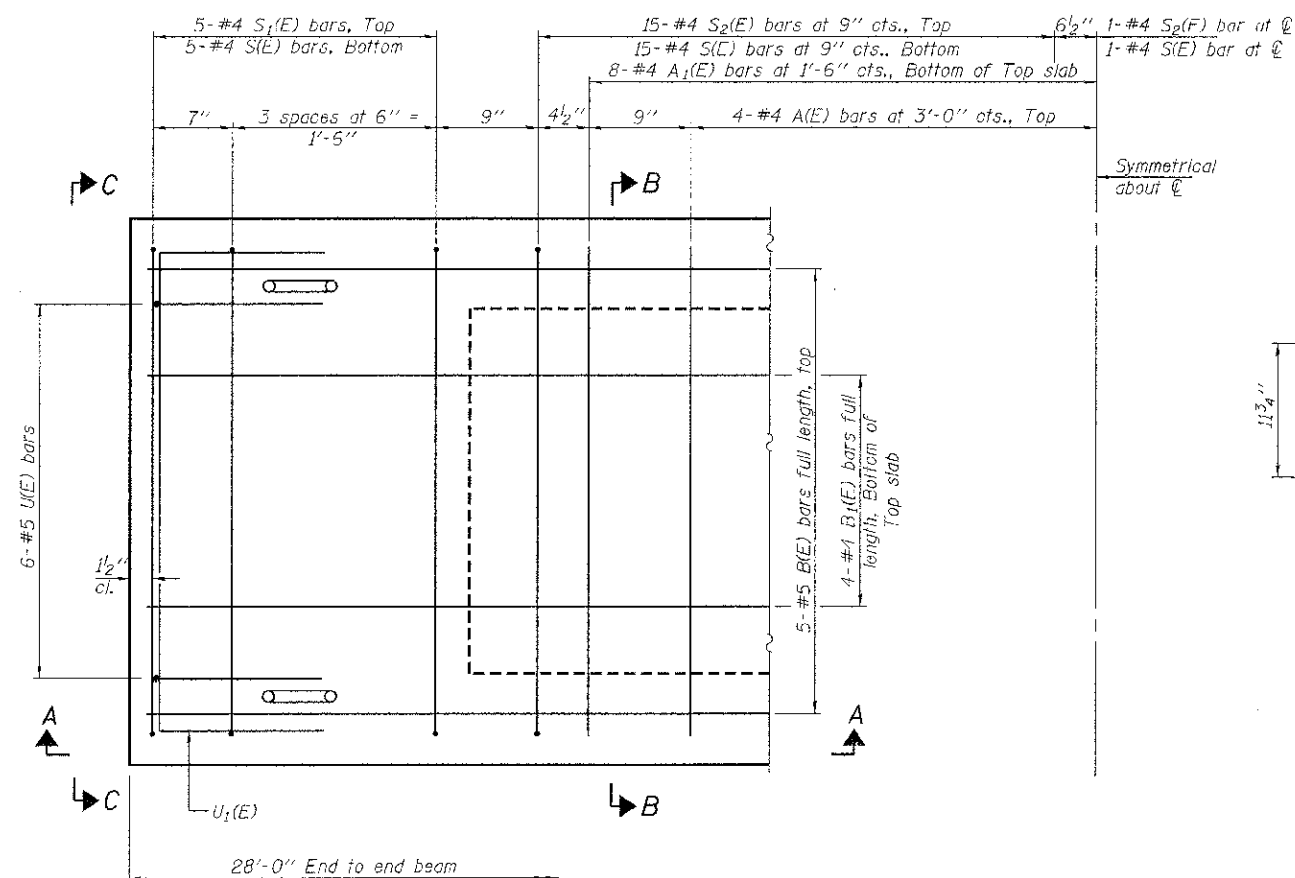
SECTION A-A



SECTION B-B
(Showing dimensions)

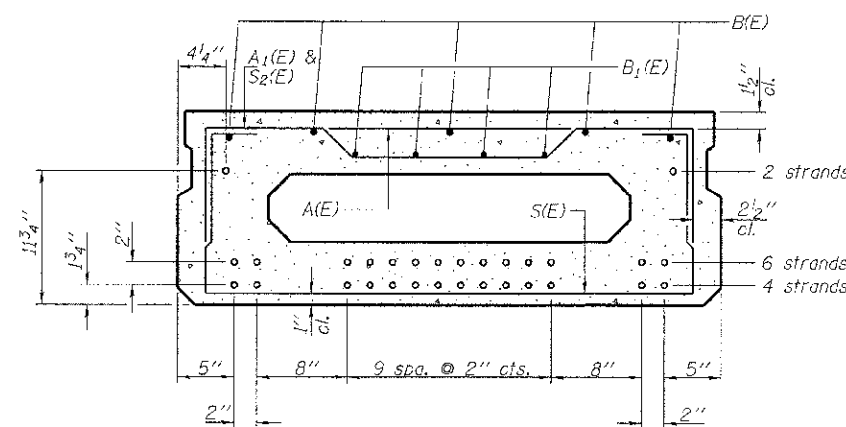


VIEW C-C



PLAN VIEW

Symmetrical about C-C



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
A1(E)	8	#4	3'-7"	—
A2(E)	16	#4	3'-10"	—
B1(E)	5	#5	27'-8"	—
B2(E)	4	#4	27'-8"	—
S1(E)	41	#4	6'-9"	□
S2(E)	10	#4	5'-3"	□
S3(E)	31	#4	5'-6"	□
U1(E)	12	#5	3'-8"	□
U2(E)	2	#4	6'-0"	□

Note: See sheet 3 & 4 of 10 for additional details and Bill of Material.

MINIMUM BAR LAP

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

Notes:
Spacing of S1(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.

PD-1748-0

7-1-10

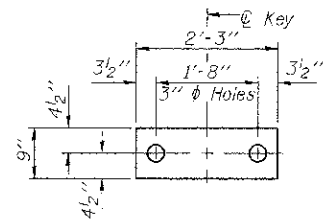
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HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -
3045 STEVENSON DRIVE, SUITE 301		DRAWN - C.A.B.	REVISED -
SPRINGFIELD, ILLINOIS 62705	PLOT SCALE =	CHECKED - S.W.M.	REVISED -
ILLINOIS PROFESSIONAL ENGINEERING FIRM	PLOT DATE = 10/30/2012		
1317 PG. / SE CORP. 134.000050			

STATE OF ILLINOIS
MOULTRIE COUNTY HIGHWAY DEPARTMENT

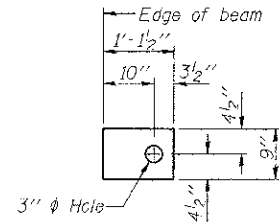
17" x 48" PPC DECK BEAM
STRUCTURE NO. 070-4443

SHEET NO. 2 OF 10 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19	09-04131-00-BR	MOULTRIE	25	17
LOVINGTON ROAD DISTRICT		CONTRACT NO. 95697		
ILLINOIS FED. AID PROJECT				

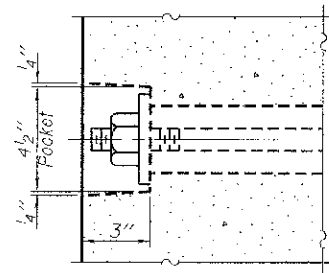


FABRIC BEARING PAD
(Interior - 36 Req'd.)

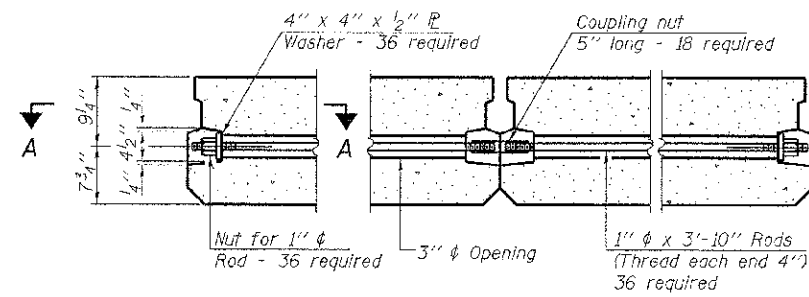


FABRIC BEARING PAD
(Exterior - 12 Req'd.)

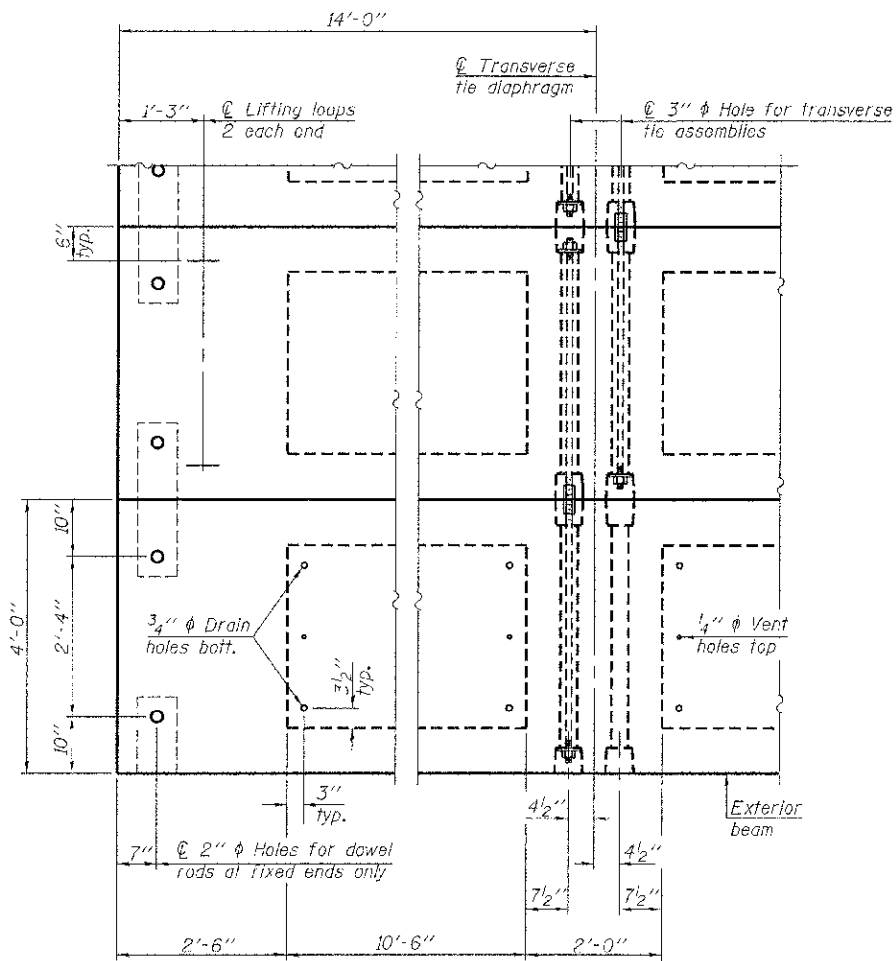
FIXED
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



SECTION A-A

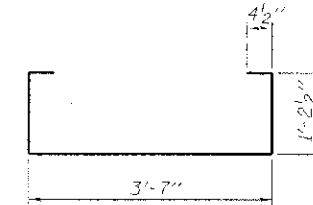


TYPICAL TRANSVERSE TIE ASSEMBLY

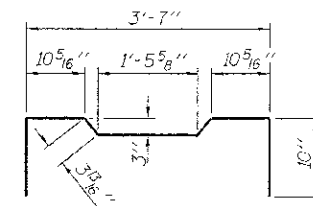


PLAN VIEW

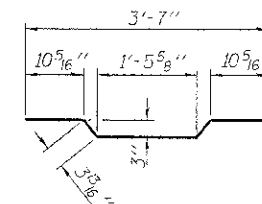
Note: Connect beams in pairs with the transverse tie configuration shown.



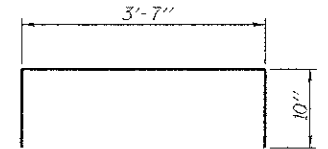
BAR S(E)



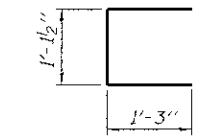
BAR S2(E)



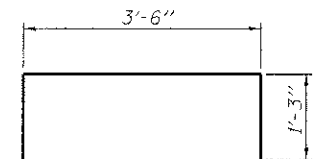
BAR A1(E)



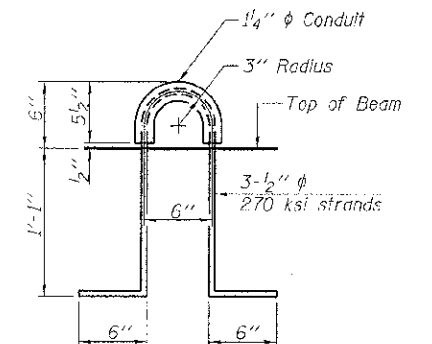
BAR S1(E)



BAR U(E)



BAR U1(E)



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	2,352
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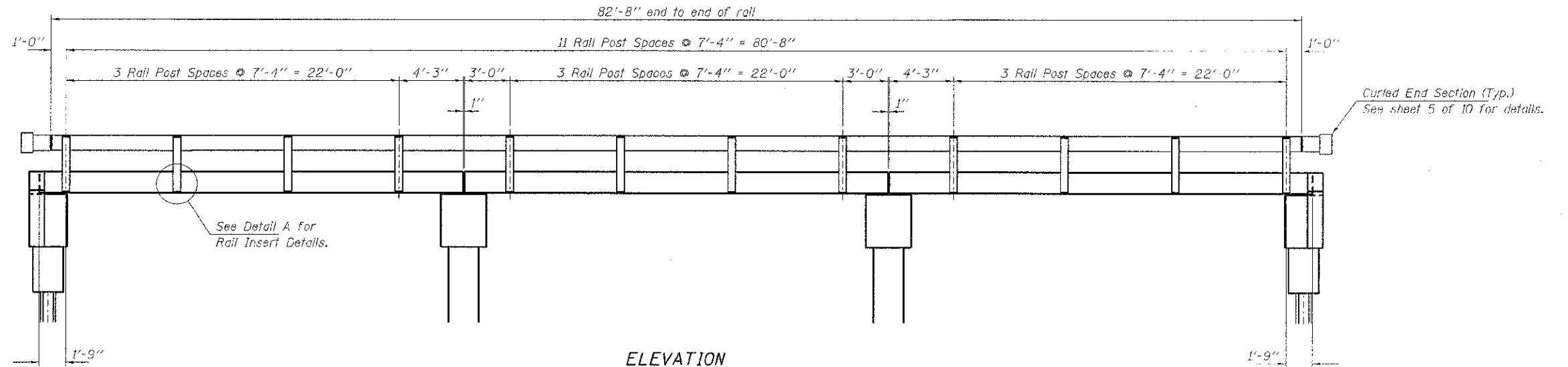
NOTES

- 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 1021.07 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.
- All bars shall be epoxy coated.

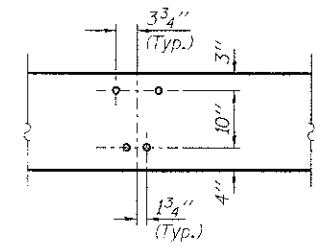
PD-1748-0D

7-1-10

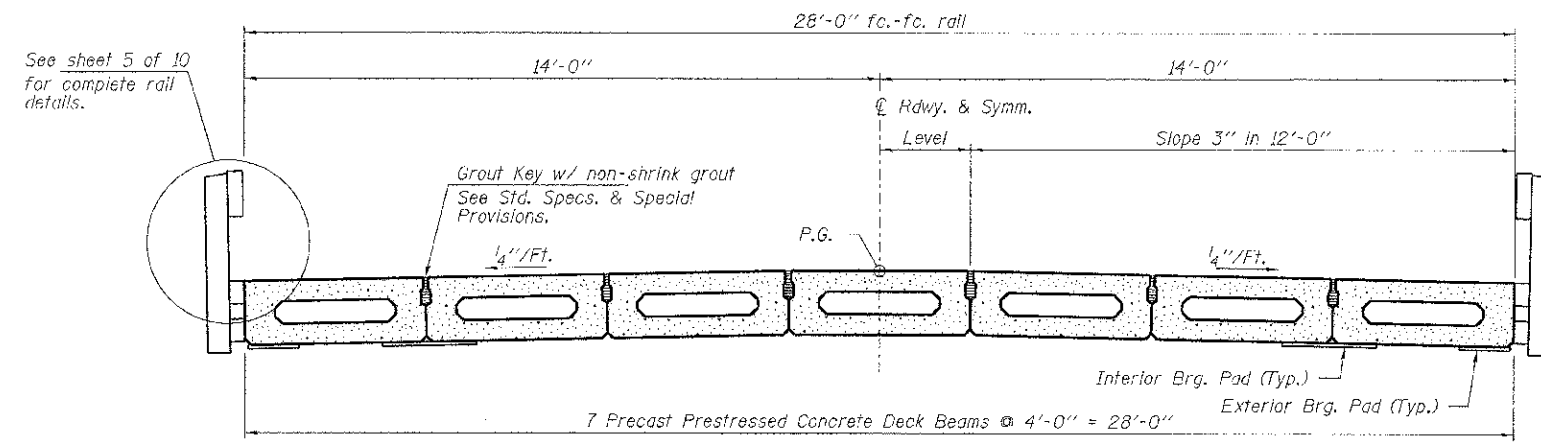
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HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -			19	C9-04131-00-BR	MOULTRIE	25	18
1305 STYLIANOU DRIVE, SUITE 201 CHICAGO, ILLINOIS 60631	PLOT SCALE =	DRAWN - D.A.B.	REVISED -			LOVINGTON ROAD DISTRICT		CONTRACT NO. 95697		
ILLINOIS PROFESSIONAL DESIGN FIRM 13 / P.E. / S.E. / C.E.P.	PLOT DATE = 10/30/2012	CHECKED - S.W.M.	REVISED -			SHEET NO. 3 OF 10 SHEETS		ILLINOIS FED. AID PROJECT		



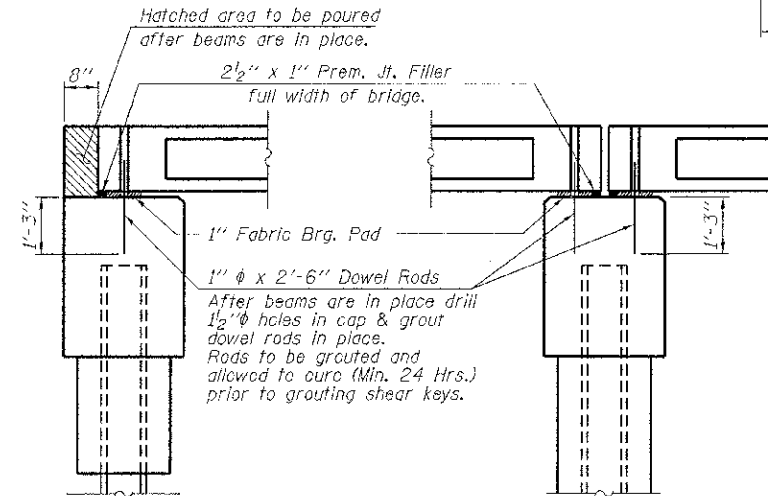
ELEVATION
Showing Rail Post Spaces
See sheet 5 of 10 for Railing Details.



DETAIL A



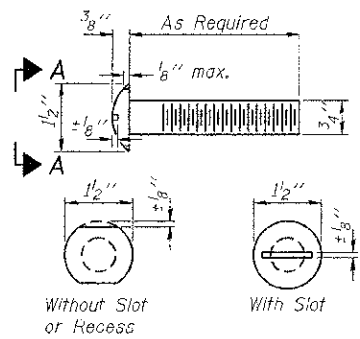
CROSS SECTION
See sheets 2 & 3 of 10 for Superstructure.



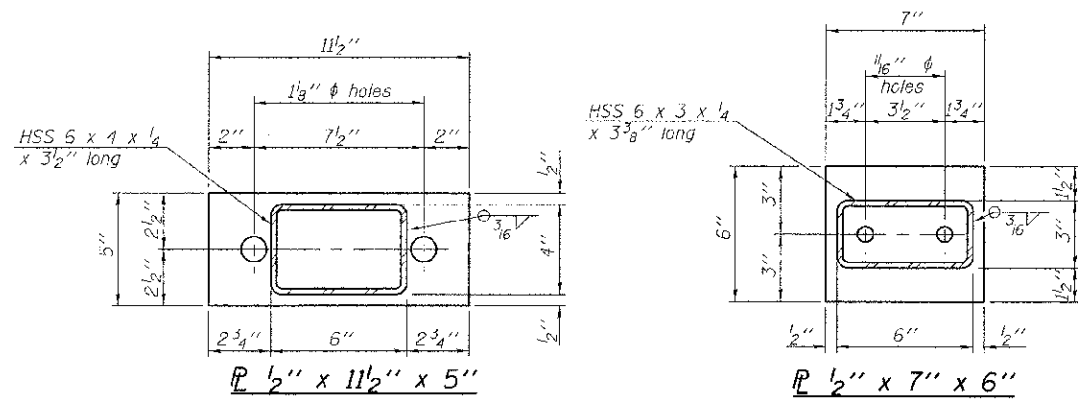
SECTION AT ABUTMENTS
© Rf. L's

SECTION AT PIERS
© Rf. L's

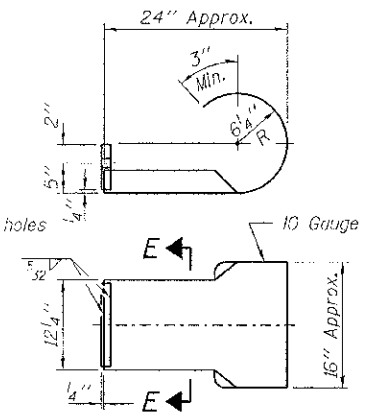
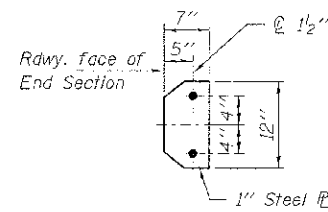
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HAMPTON, LENZINI AND RENWICK, INC. 3003 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62765	PLOT SCALE =	CHECKED - S.W.M.	REVISED -			19	C9-04131-00-BR	MOULTRIE	25	19
ILLINOIS PROFESSIONAL DESIGN FIRM LS 1787, SEC. 009F, 184,000950	PLOT DATE = 12/30/2012	DRAWN - D.A.B.	REVISED -			LOVINGTON ROAD DISTRICT	CONTRACT NO. 95697			
						SHEET NO. 4 OF 10 SHEETS		ILLINOIS FED. AID PROJECT		



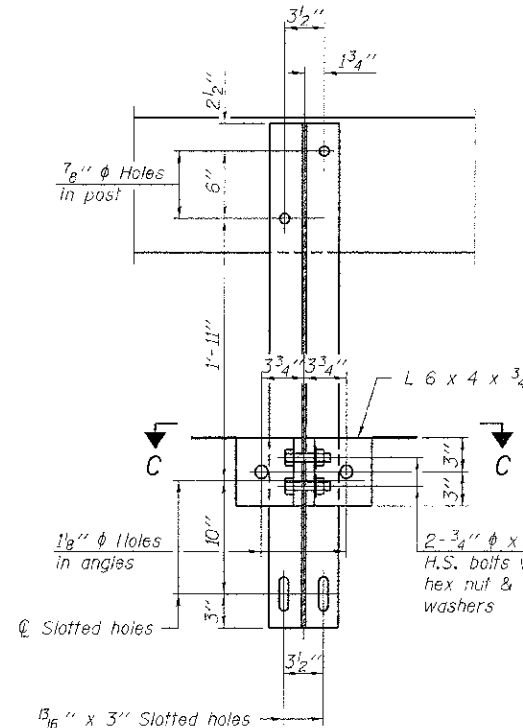
**VIEW A-A
ROUND HEAD BOLT**



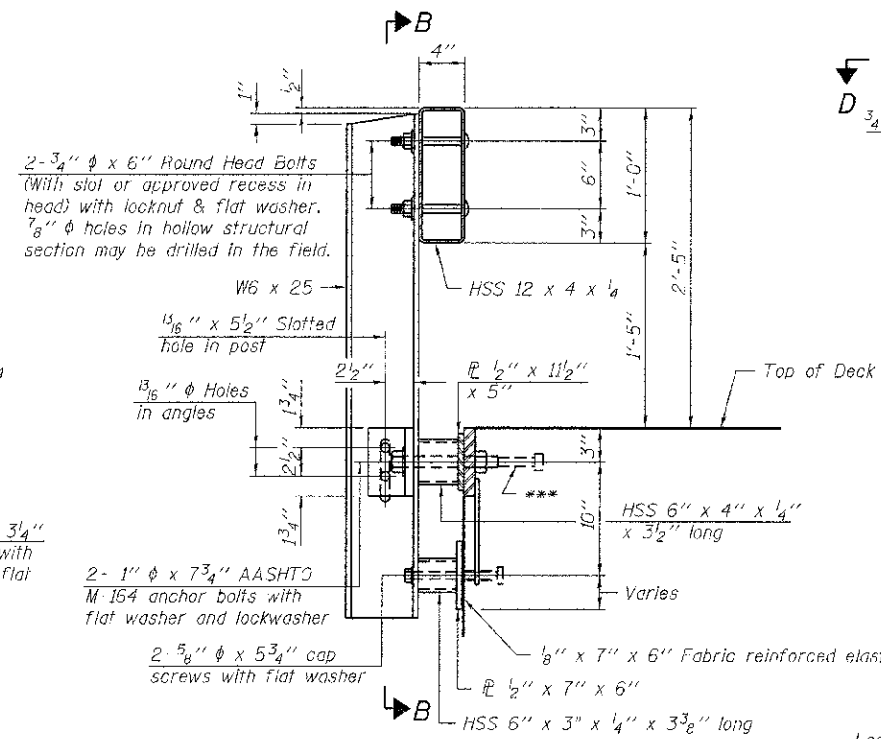
Note: Cost of curled end sections shall be included with the Steel Railing. (4 Required)



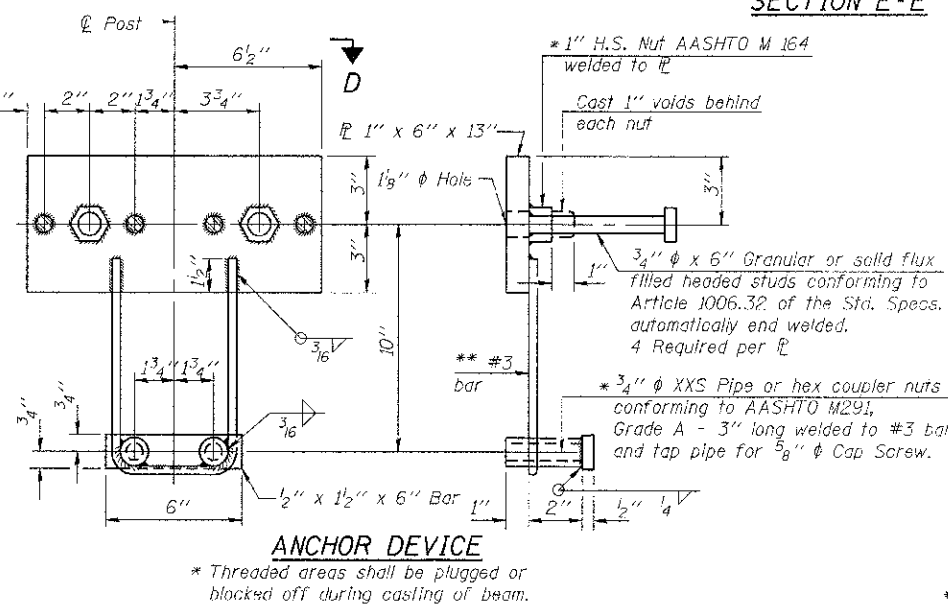
**SECTION E-E
CURLED END SECTION DETAILS**



SECTION B-B

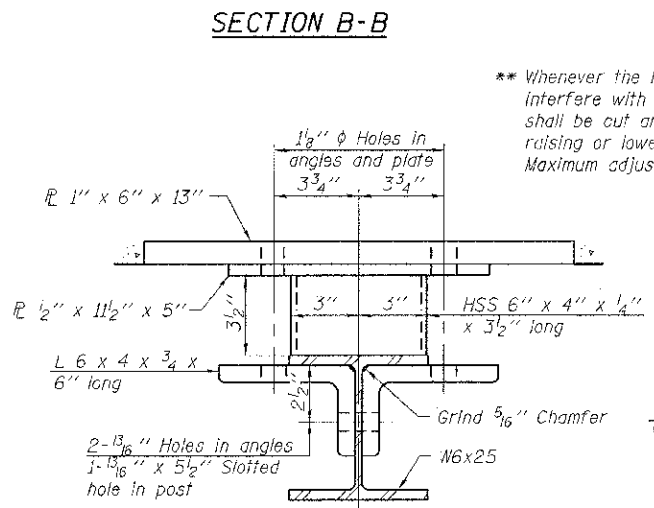


SECTION AT RAILING POST

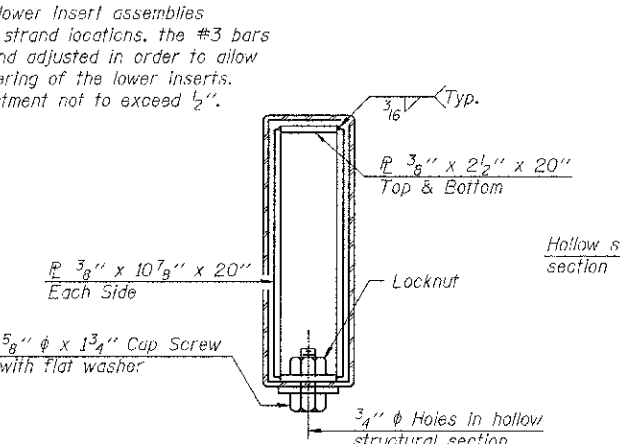


ANCHOR DEVICE

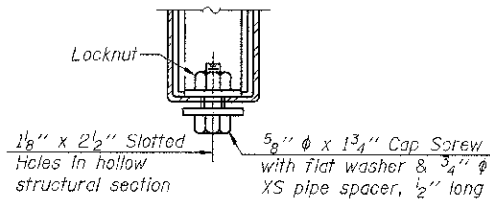
Notes:
All field drilled holes shall be coated with an approved zinc rich paint before erection.
For multi-span bridges, sufficient 1/4 inch x 6 inch x 1-2 inch galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type S-1.
All steel rail elements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



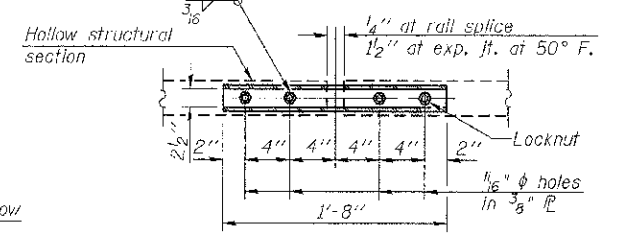
SECTION C-C



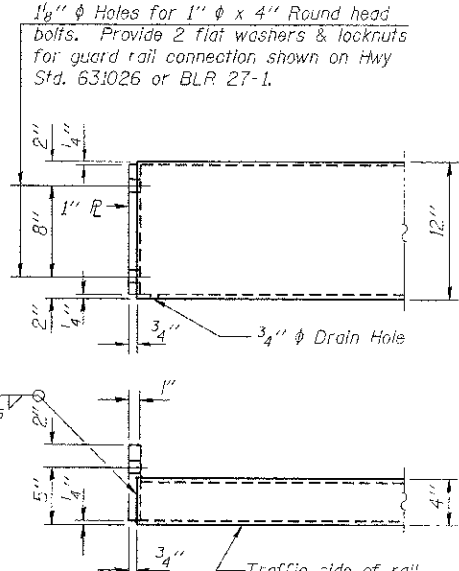
SECTIONS AT RAIL SPLICE



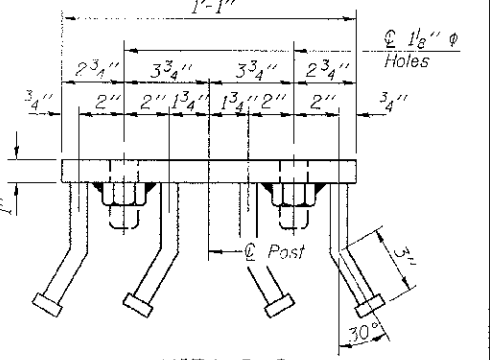
**RAIL SPLICE CONNECTION
AT EXPANSION JT.**



**PLAN-BOTT. SPLICE R
TYPICAL**



END OF RAIL DETAILS



VIEW D-D

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	166

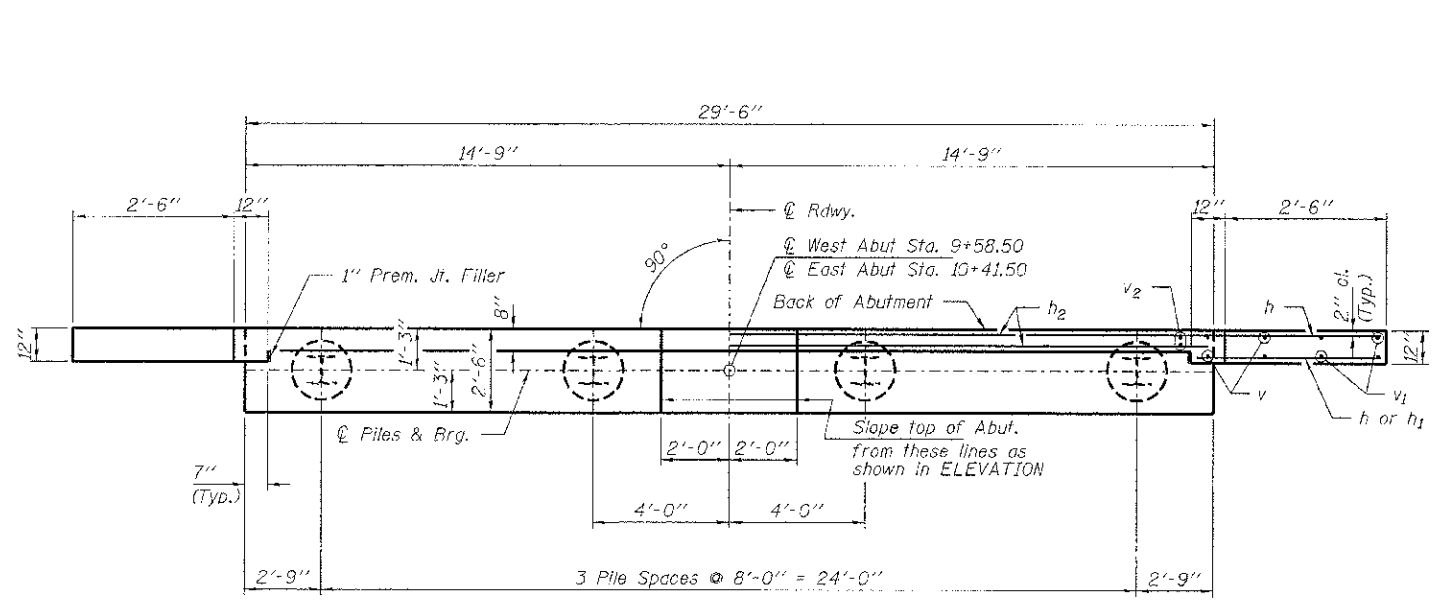
R-23A 7-1-10 (10'-9" Maximum Post Spacing)

FILE NAME = 09R171-rt-r-bridge.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3010 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, IL 62773	PLOT SCALE =	CHECKED - S.W.M.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM L3/P/E/SE CORP. 184-00889	PLOT DATE = 12/30/2012	DRAWN - D.A.B.	REVISED -
		CHECKED - S.W.M.	REVISED -

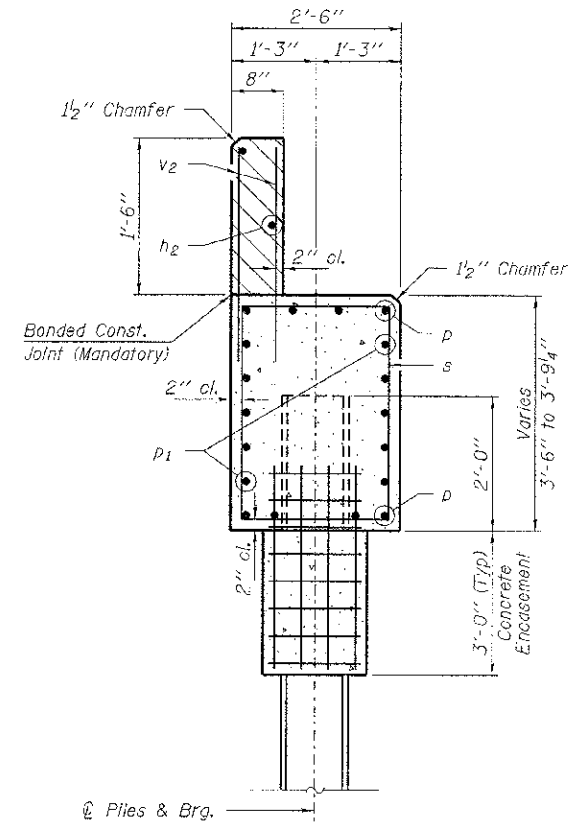
STATE OF ILLINOIS
MOULTRIE COUNTY HIGHWAY DEPARTMENT

STEEL RAILING, TYPE S-1
STRUCTURE NO. 070-4443
SHEET NO. 5 OF 10 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
19	09-04131-00-BR	MOULTRIE	25	20
LOVINGTON ROAD DISTRICT		CONTRACT NO. 95697		
ILLINOIS FED. AID PROJECT				

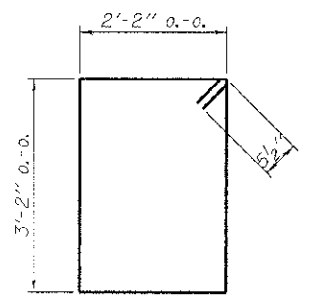


PLAN

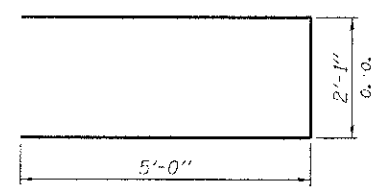


SECTION A-A

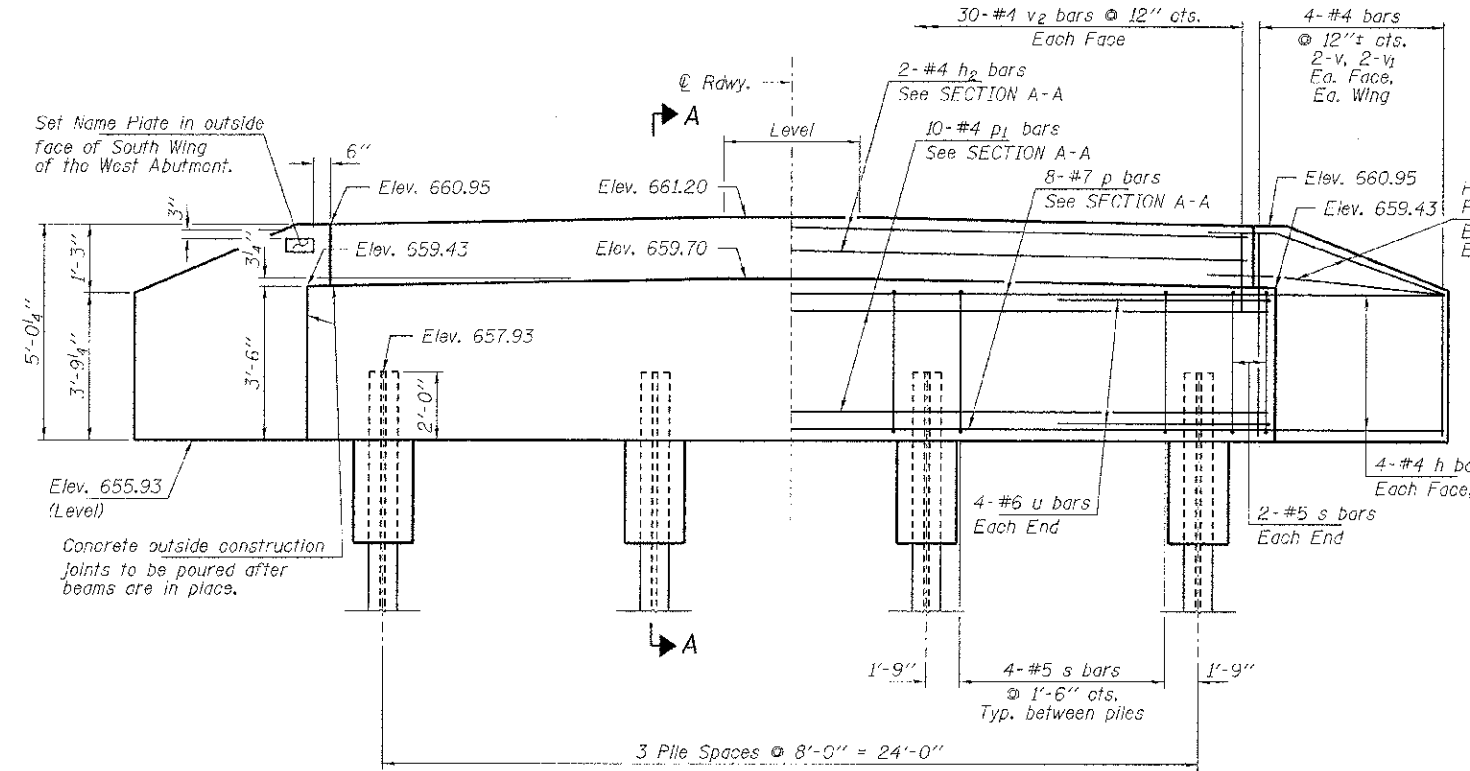
Hatched area to be poured after beams are in place.



BAR s



BAR u



ELEVATION

PILE DATA

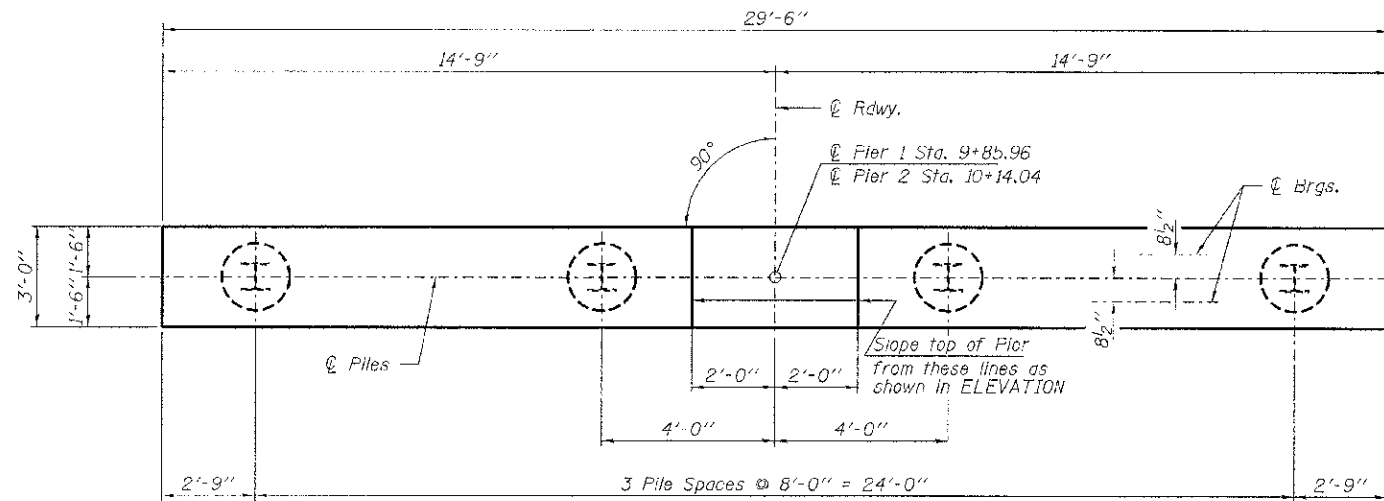
Type: Steel HP10x42
 No. Req'd. (2 Abuts.): 8
 Factored Resistance Available (Rf): 110 Kips/Pile
 Nominal Required Bearing (Rn): 200 Kips/Pile
 Est. Length: 30 Ft./Pile

Notes: * Includes one test pile to be driven in permanent location at the West Abutment.

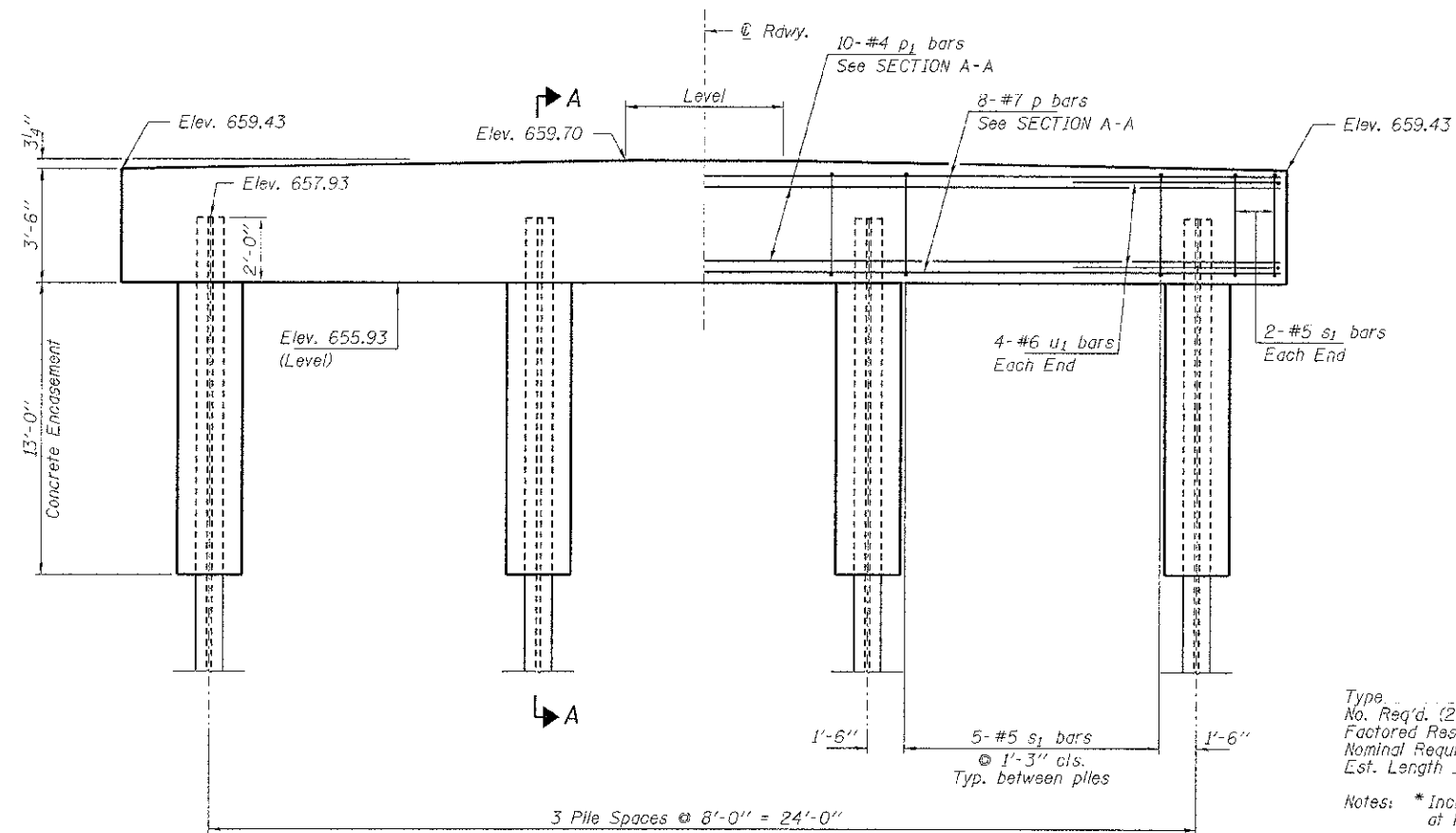
The test piles shall be driven to 110 percent of the Nominal Required Bearing Indicated in the pile data information.

BILL OF MATERIAL - 2 ABUTS.

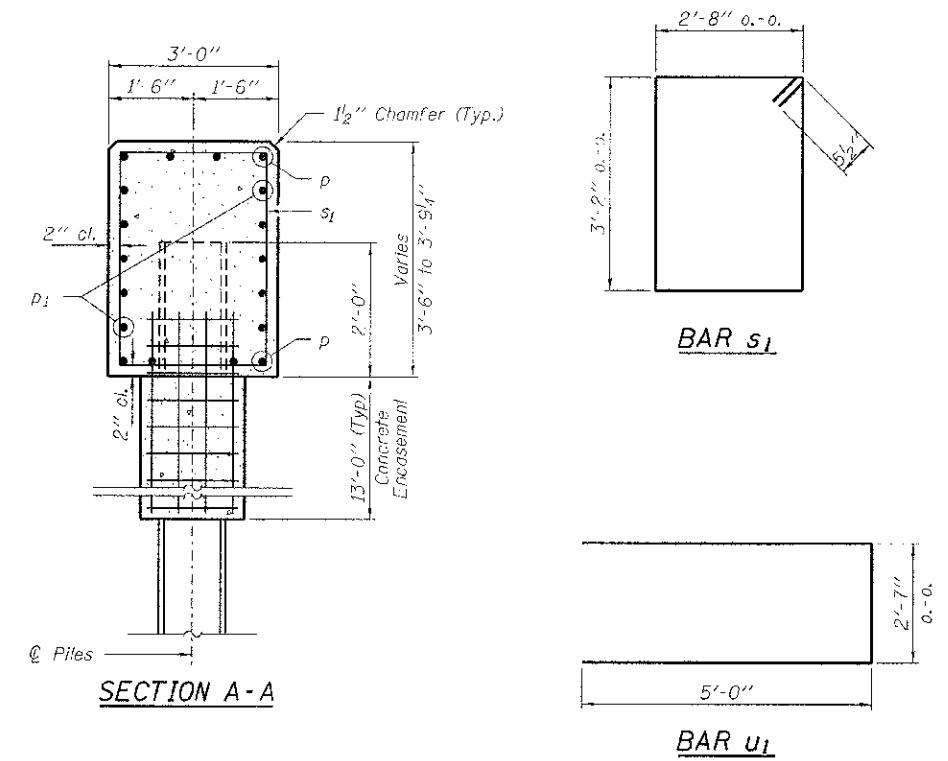
BAR	NO.	SIZE	LENGTH	SHAPE	
h	40	#4	4'-9"	—	
h1	8	#4	3'-3"	—	
h2	4	#4	29'-2"	—	
p	16	#7	29'-2"	—	
p1	20	#4	29'-2"	—	
s	32	#5	11'-7"	□	
u	16	#6	12'-1"	—	
v	16	#4	4'-6"	—	
v1	16	#4	3'-6"	—	
v2	120	#4	2'-4"	—	
Concrete Structures				Cu. Yd.	24.0
Concrete Encasement				Cu. Yd.	2.8
Reinforcement Bars				Pound	2,520
Steel Piles HP10x42				Foot	210
Test Pile Steel HP10x42				Each	1
Name Plates				Each	1



PLAN



ELEVATION



SECTION A-A

PILE DATA

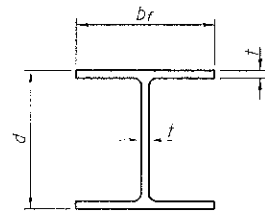
Type ----- Steel HP10x42
 No. Req'd. (2 Piers) ----- *8
 Factored Resistance Available (RF) ----- 174 Kips/Pile
 Nominal Required Bearing (Rn) ----- 316 Kips/Pile
 Est. Length ----- 60 Ft./Pile

Notes: * Includes one test pile to be driven in a permanent location at Pier 2.

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

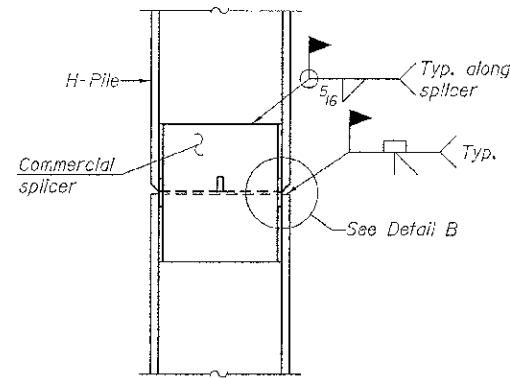
BILL OF MATERIAL - 2 PIERS

BAR	NO.	SIZE	LENGTH	SHAPE
p	16	#7	29' 2"	—
p ₁	20	#4	29' 2"	—
s ₁	38	#5	12' 7"	□
u ₁	16	#6	12' 7"	—
Concrete Structures			Cu. Yd.	24.0
Concrete Encasement			Cu. Yd.	11.8
Reinforcement Bars			Pound	2,140
Steel Piles HP10x42			Foot	420
Test Pile Steel HP10x42			Each	1

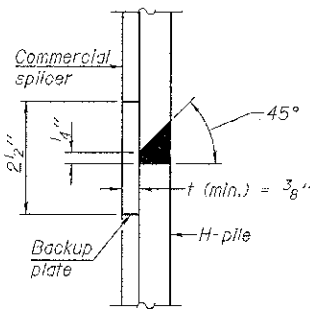


STEEL PILE TABLE

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"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"

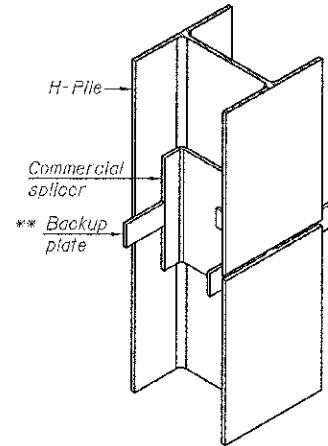


ELEVATION

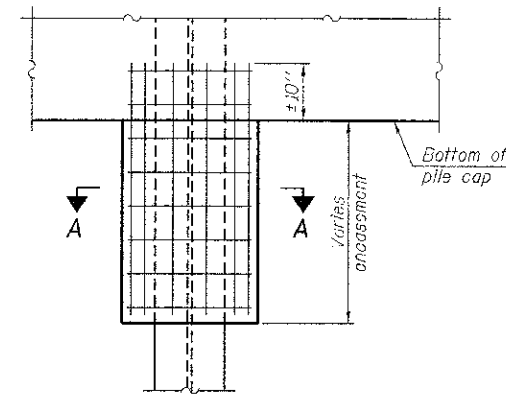


DETAIL "B"

WELDED COMMERCIAL SPLICE

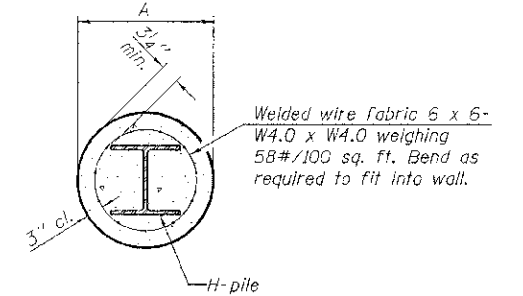


ISOMETRIC VIEW



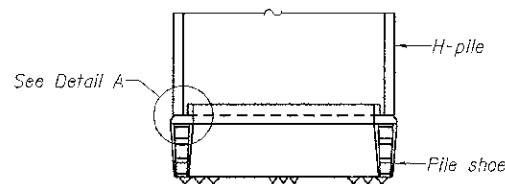
ELEVATION

PILE ENCASEMENT



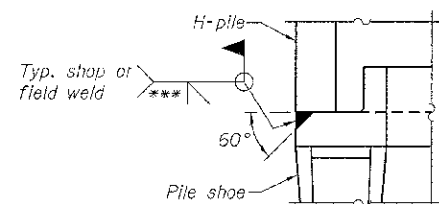
SECTION A-A

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

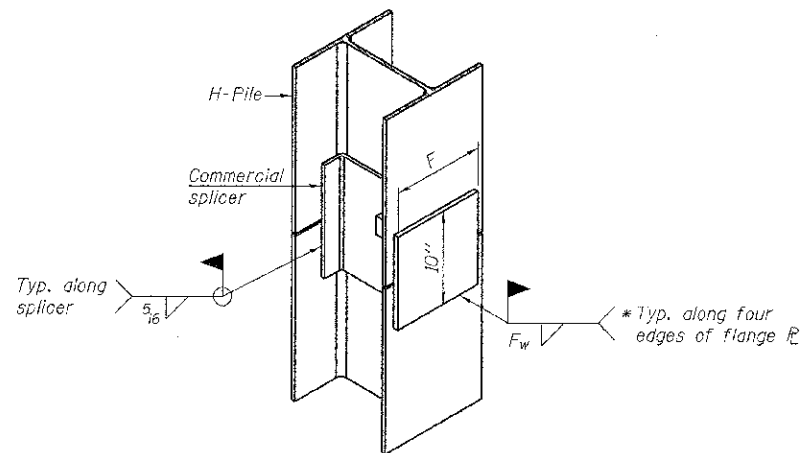


ELEVATION

H-PILE SHOE ATTACHMENT



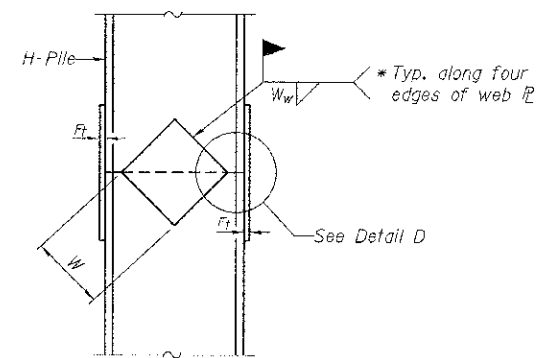
DETAIL A



ISOMETRIC VIEW

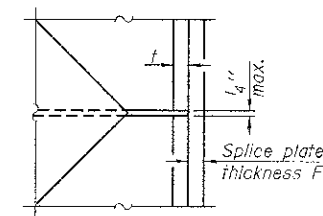
WELDED COMMERCIAL SPLICE ALTERNATE

- * 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 (3/16" min.).



ELEVATION

WELDED PLATE FIELD SPLICE



DETAIL D

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

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

F-HP

1-27-12

FILE NAME = 090171-sh-c-b-edge.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -	STATE OF ILLINOIS MOULTRIE COUNTY HIGHWAY DEPARTMENT	HP PILE DETAILS STRUCTURE NO. 070-4443	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 2005 FREDERICK DRIVE SUITE 202 SPRINGFIELD, ILLINOIS 62733 ILLINOIS PROFESSIONAL DESIGNER # 181-000039	PLOT SCALE =	CHECKED - S.W.M.	REVISED -			19	09-04131-00-BR	MOULTRIE	25	23
PLUT DATE = 10/30/2012		DRAWN - D.A.B.	REVISED -			LOVINGTON ROAD DISTRICT		CONTRACT NO. 95697		
		CHECKED - S.W.M.	REVISED -			ILLINOIS FED. AID PROJECT				

