

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 12	04-06130-00-BR	MOULTRIE	34	1
FED. ROAD DIST. NO.		ILLINOIS CONTRACT NO. 95729		

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
7-26.	STATION CROSS SECTIONS
27-33.	BRIDGE PLANS
34.	BORINGS

HIGHWAY STANDARDS:

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-03	NAME PLATE FOR BRIDGES
630301-06	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
665001-02	WOVEN WIRE FENCE
701901-03	TRAFFIC CONTROL DEVICES
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 27-1	TRAFFIC BARRIER TERMINAL, TYPE 5A

UTILITIES

VILLAGE OF BETHANY
201 WEST MAIN
BETHANY, IL 61914

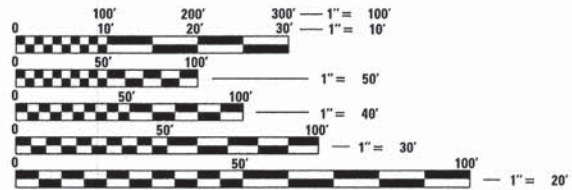
FRONTIER COMMUNICATIONS
104 MULBERRY
NORMAL, IL 61761

**PLANS FOR PROPOSED
SURFACE TRANSPORTATION PROGRAM – BRIDGE**

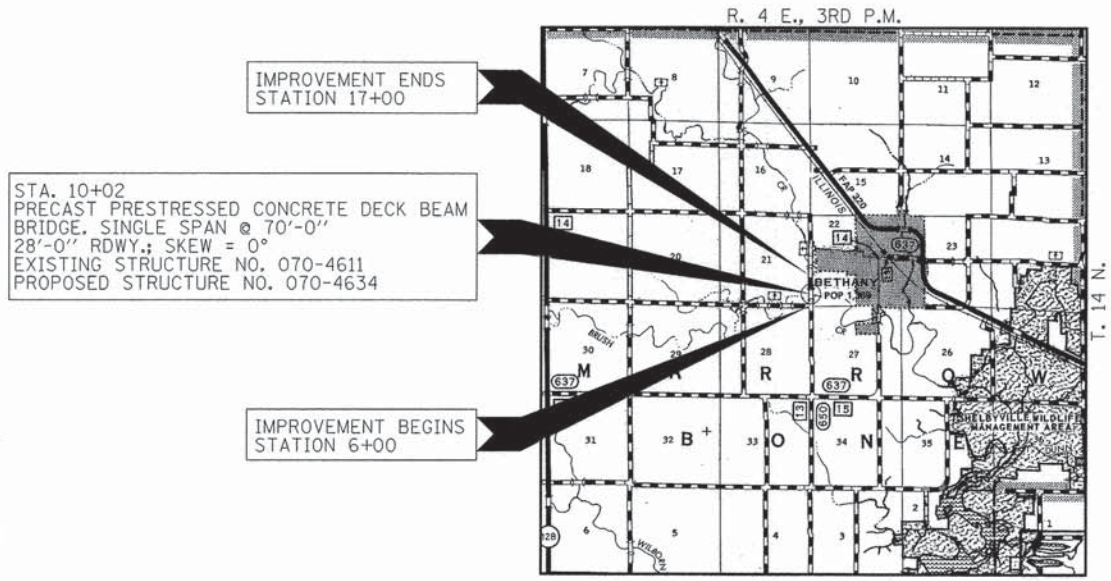
**PROJECT BROS-0139(063)
SECTION 04-06130-00-BR
MARROWBONE ROAD DISTRICT
MOULTRIE COUNTY
T.R. 12 / 300E
PROPOSED STRUCTURE NO. 070-4634
C-97-047-13**



FUNCTIONAL CLASSIFICATION: LOCAL ROAD
DESIGN SPEED: 30 MPH
DESIGN TRAFFIC: 175 ADT (2013)



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 = 1100 FEET = 0.208 MILES



ILLINOIS DEPARTMENT OF TRANSPORTATION	
APPROVED	<i>[Signature]</i> 20 14 COUNTY ENGINEER
APPROVED	<i>[Signature]</i> 20 14 TOWNSHIP COMMISSIONER
PASSED	<i>[Signature]</i> 2-19 20 14 DISTRICT SEVEN ENGINEER OF LOCAL ROADS & STREETS
Releasing For Bid Based on Limited Review	<i>[Signature]</i> 2-19 20 14 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
217.546.3400 www.hlrengineering.com

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	UNIT	CONSTRUCTION TYPE CODE 0011 TOTAL
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	164
20200100	EARTH EXCAVATION	CU YD	1,570
20300100	CHANNEL EXCAVATION	CU YD	125
20700220	POROUS GRANULAR EMBANKMENT	CU YD	62
28000305	TEMPORARY DITCH CHECKS	FOOT	250
28000400	PERIMETER EROSION BARRIER	FOOT	650
28100207	STONE RIPRAP, CLASS A4	TON	630
28200200	FILTER FABRIC	SQ YD	810
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	1,080
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	28.4
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	1,960
50800105	REINFORCEMENT BARS	POUND	3,160
50900205	STEEL RAILING, TYPE S1	FOOT	138
51201400	FURNISHING STEEL PILES HP10X42	FOOT	315
51202305	DRIVING PILES	FOOT	315
51203400	TEST PILE STEEL HP 10X42	EACH	1
51500100	NAME PLATES	EACH	1
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	36
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
78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	1.1
A2006916	TREE, QUERCUS PALUSTRIS (PIN OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	4
A2007116	TREE, QUERCUS RUBRA (RED OAK), 2" CALIPER, BALLED AND BURLAPPED	EACH	4

^ SEE SPECIAL PROVISIONS
* SPECIALTY ITEMS

TEMPORARY DITCH CHECKS SCHEDULE	
LOCATION	TEMPORARY DITCH CHECKS
	28000305 FOOT
TR 12 / 300E	
20' RT STA 6+50	10
19' RT STA 7+50	12
25' RT STA 8+00	12
21' RT STA 12+00	12
21' RT STA 12+50	12
21' RT STA 13+00	12
21' RT STA 13+50	12
21' RT STA 14+00	12
21' RT STA 14+50	12
21' RT STA 16+00	12
17' RT STA 17+00	12
19' LT STA 7+00	10
22' LT STA 7+50	10
26' LT STA 8+00	10
26' LT STA 8+50	10
34' LT STA 9+50	10
23' LT STA 12+50	10
21' LT STA 13+00	10
19' LT STA 13+50	10
21' LT STA 14+00	10
21' LT STA 14+50	10
21' LT STA 16+00	10
17' LT STA 17+00	10
TOTAL	250
USE	250

ROADWAY SCHEDULE	
LOCATION	AGGREGATE SURFACE COURSE TYPE B 8"
	40200800 TON
TR 12 / 300E	
STA 6+00 TO STA 9+66.33	366
STA 10+37.67 TO STA 17+00	668
1600E	
S.R. LT STA 6+40	46
TOTAL	1,080
USE	1,080

- ### 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.
 - THE REVISION NUMBERS OF THE STANDARDS LISTED IN THE PLANS ARE TO BE USED FOR CONSTRUCTING OF THIS SECTION.
 - ALL CLEARING AND GRUBBING AND REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. THE REMOVAL OF THE EXISTING BITUMINOUS 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:

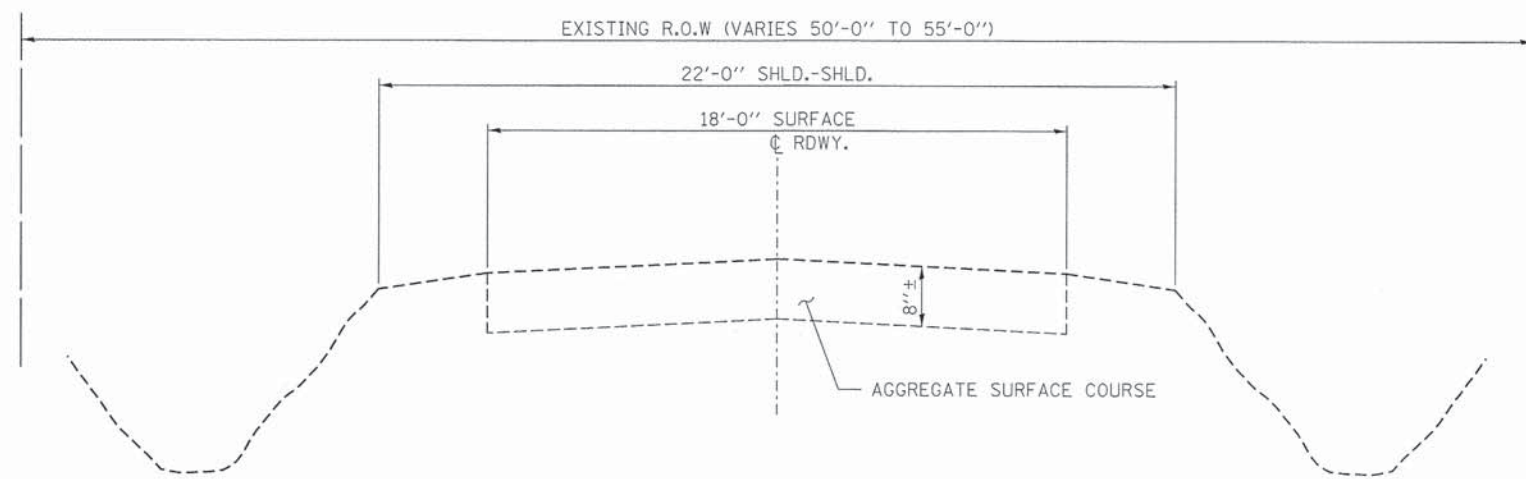
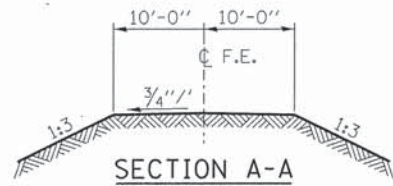
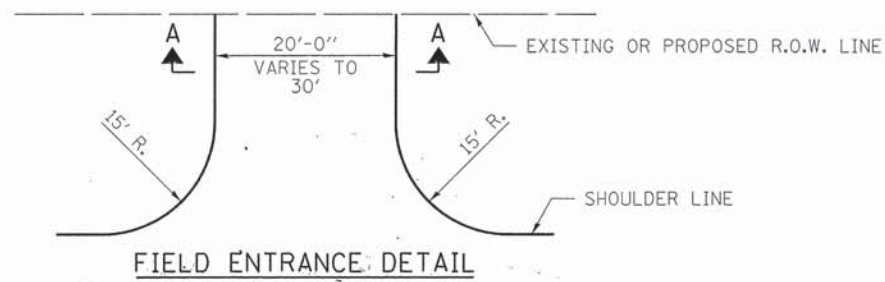
AGGREGATE SURFACE COURSE	2.05 TON/CU YD
STONE RIPRAP	1.75 TON/CU YD
 - THE AREA TO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY AS DIRECTED BY THE ENGINEER. ESTIMATED QUANTITY: SEEDING, CLASS 2 (SPECIAL) = 1.1 ACRES
 - TREES WITHING THE RIGHT-OF-WAY WHICH INTERFERE WITH CONSTRUCTION SHALL BE REMOVED ONLY AT THE DIRECTION OF THE ENGINEER. ANY TREES ALREADY FELLED SHALL BE MEASURED AND REMOVED AS PER THE SPECIAL PROVISIONS.

EARTHWORK SCHEDULE							
LOCATION	EARTH EXCAVATION	CHANNEL EXCAVATION	SHRINKAGE FACTOR	PERCENT USED	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT REQUIRED	EARTHWORK BALANCE
	20200100 CU.YD.	20300100 CU.YD.					
TR 12 / 300E							
STA 6+00 TO STA 9+66.33	162		25.00%	100.00%	122	512	-390
STA 9+66.33 TO STA 10+37.67		125	25.00%	70.00%	66		66
STA 10+37.67 TO STA 17+00	1407		25.00%	100.00%	1055	589	466
EXCAVATION FROM RIPRAP (630 CU.YD)			25.00%	70.00%	331		331
ENTRANCE EMBANKMENT						26	-26
TOTAL	1569	125			1574		447
USE	1570	125					447

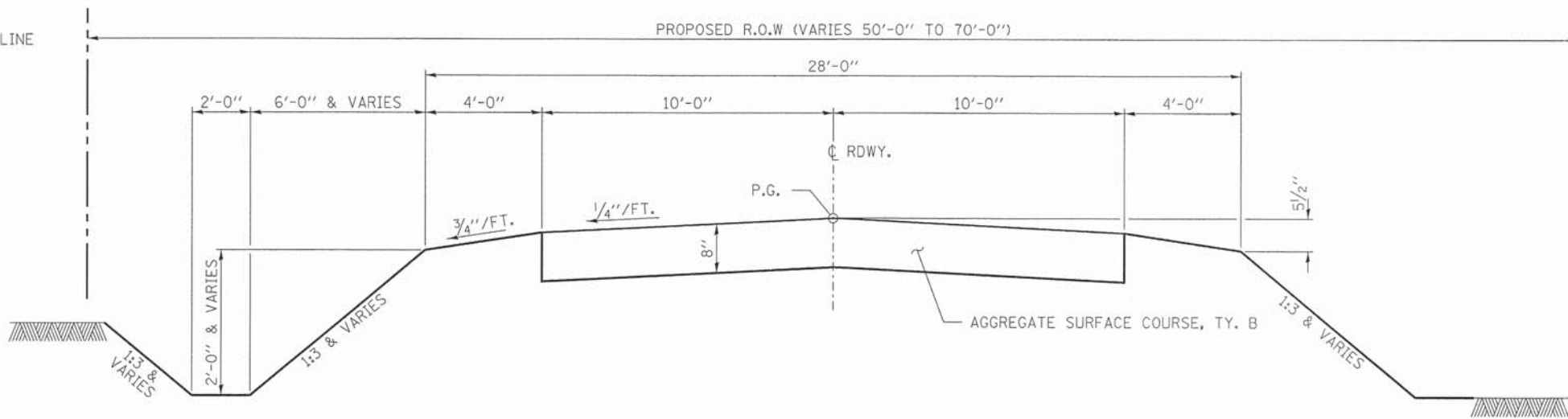
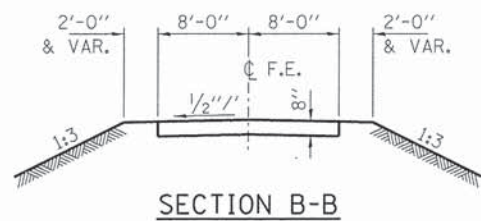
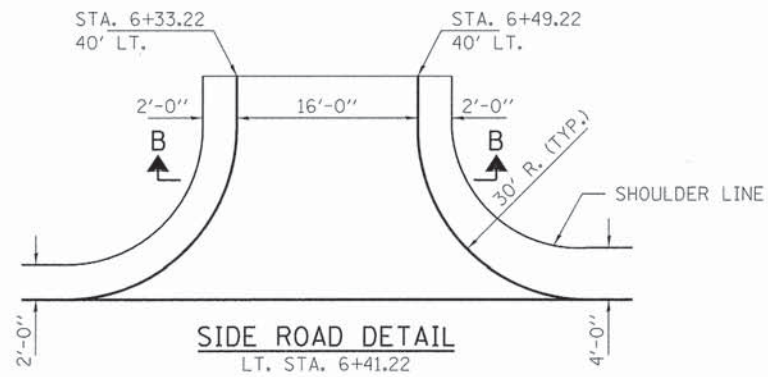
WASTE EXCAVATION 447 CU YDS

PERIMETER EROSION BARRIER SCHEDULE	
LOCATION	PERIMETER EROSION BARRIER 28000400 FOOT
	TR 12 / 300E
LT STA 6+00 TO 6+75	75
RT STA 7+50 TO STA 9+75	225
LT STA 10+25 TO STA 12+50	225
RT STA 10+25 TO STA 11+50	125
TOTAL	650

TREE REMOVAL SCHEDULE	
LOCATION	TREE REMOVAL (OVER 15 UNITS DIAMETER) 20100210 UNIT
	TR 12 / 300E
37' RT STA 14+82	38"
38' RT STA 15+52	42"
36' RT STA 15+74	36"
35' RT STA 15+86	24"
35' RT STA 15+86	24"
TOTAL	164
USE	164



EXISTING CROSS SECTION
STA. 6+00 TO STA. 17+00



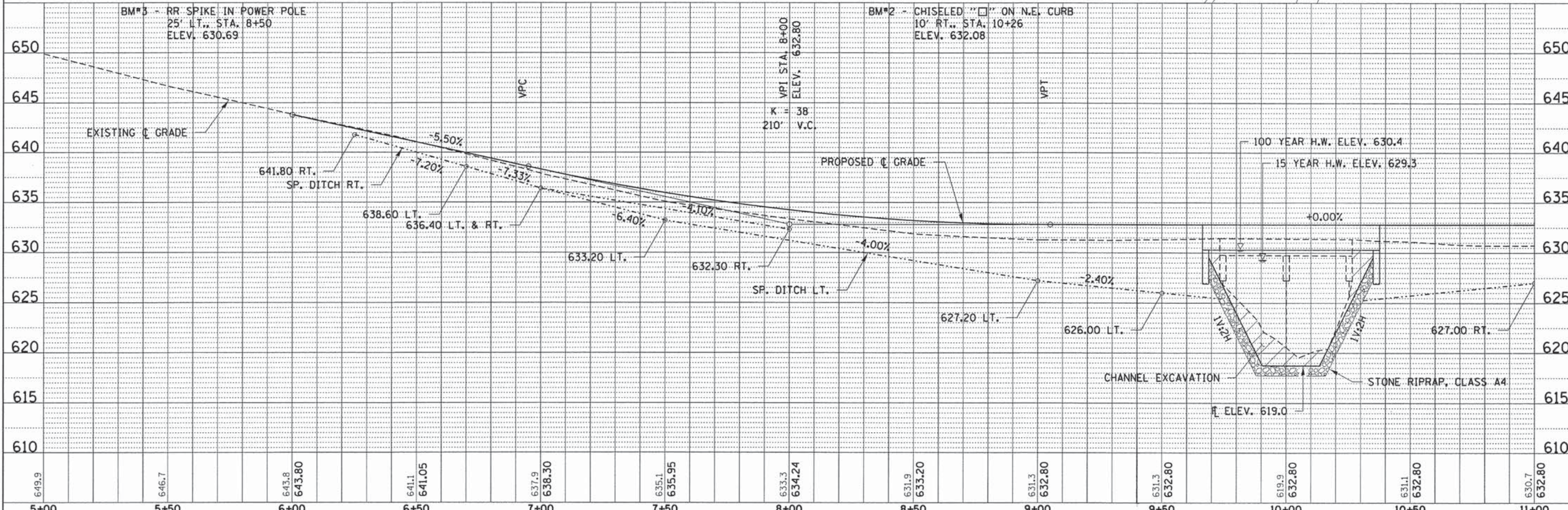
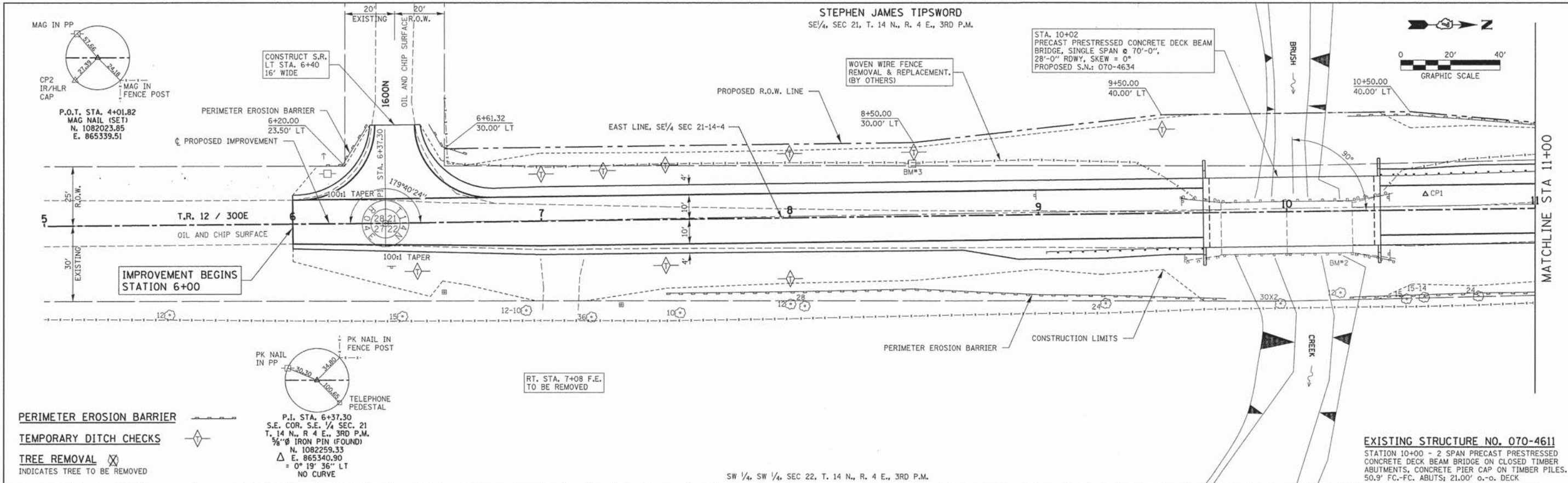
SUGGESTED CUT SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

SUGGESTED FILL SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

PROPOSED TYPICAL CROSS SECTION
STA. 6+00 TO 17+00

TRANSITIONS FROM THE PROPOSED ROADWAY TO THE EXISTING ROADWAY ARE TO BE CONSTRUCTED FROM STA. 6+00 TO 7+00 AND STA. 16+50 TO 17+00. SEE SHEET 27 FOR TRANSITION AT BRIDGE.

FILE NAME = 120297-shr-typsections.dgn	USER NAME =	DESIGNED - L.A.P.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TYPICAL CROSS SECTIONS			T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 208 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62769	PLOT SCALE =	DRAWN - R.D.H.	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	12	04-06130-00-BR	MOULTRIE	34	3
ILLINOIS PROFESSIONAL DESIGN FIRM L.S./P.E. 1 SE CORP. 184-000088	PLOT DATE = 1/6/2014	CHECKED - S.W.M.	REVISED -					MARROWBONE ROAD DISTRICT	CONTRACT NO. 95729		ILLINOIS FED. AID PROJECT BR05-0139(063)		
		DATE - 01/06/14	REVISED -										



649.9	646.7	643.8 643.80	641.1 641.05	637.9 638.30	635.1 635.95	633.3 634.24	631.9 633.20	631.3 632.80	631.3 632.80	619.9 632.80	631.1 632.80	630.7 632.80
5+00	5+50	6+00	6+50	7+00	7+50	8+00	8+50	9+00	9+50	10+00	10+50	11+00

FILE NAME = 122287-sht-p&pl.dgn
HAMPTON, LENZINI AND RENWICK, INC.
 3061 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
ILLINOIS PROFESSIONAL DESIGN FIRM
 ILL. REG. NO. 184.000959

USER NAME =
 DESIGNED - S.W.M.
 DRAWN - L.G.C.
 CHECKED - S.W.M.
 DATE - 01/21/14

REVISIONS:
 REVISED -
 REVISED -
 REVISED -
 REVISED -

PLOT SCALE =
 PLOT DATE = 1/21/2014

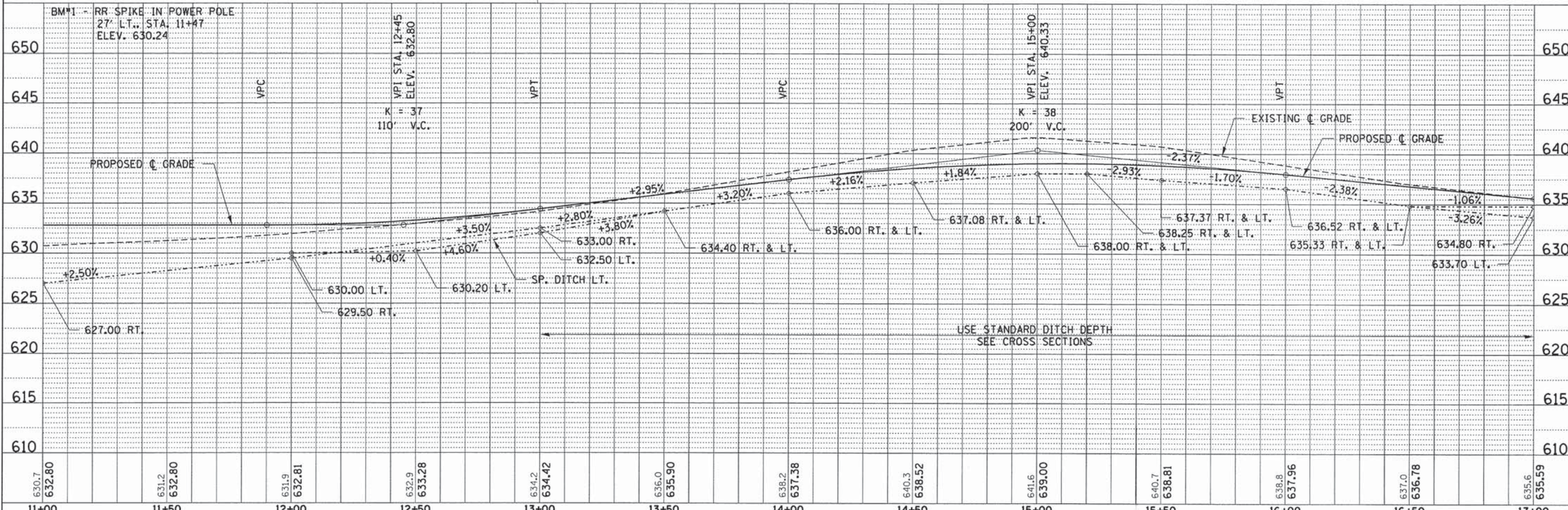
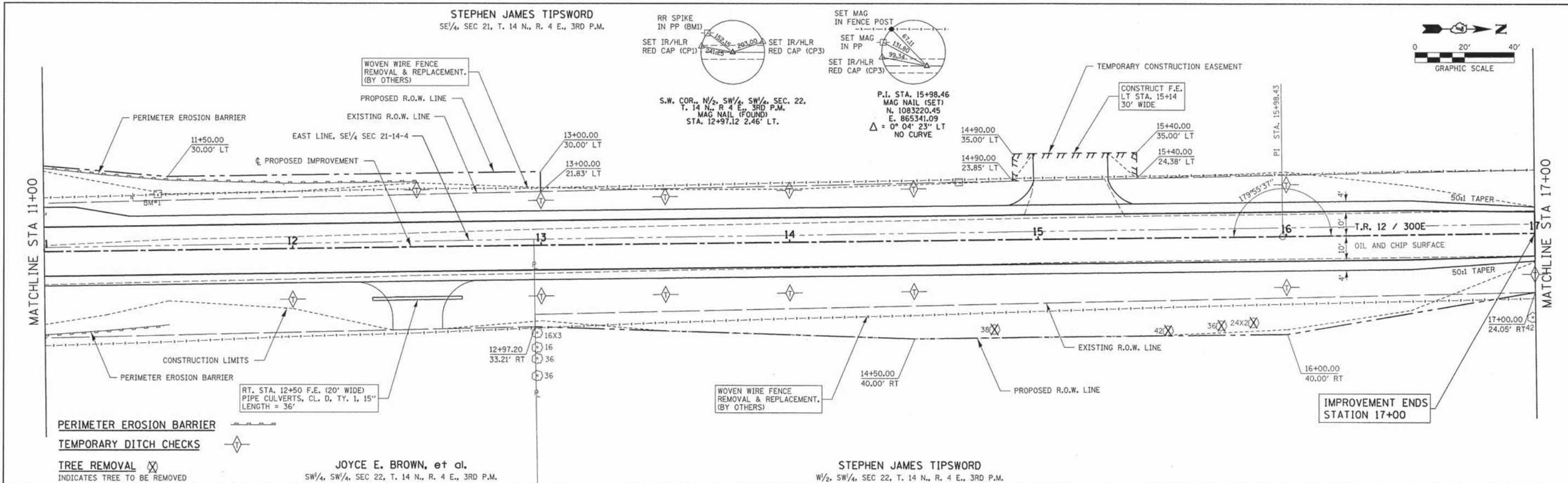
STATE OF ILLINOIS
MOULTRIE COUNTY HIGHWAY DEPARTMENT

PLAN & PROFILE
 SCALE: 20H:5V
 SHEET NO. 1 OF 3 SHEETS
 STA. 5+00.00 TO STA. 11+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12	04-06130-00-BR	MOULTRIE	34	4
MARBON ROAD DISTRICT			CONTRACT NO. 95729	
[ILLINOIS] FED. AID PROJECT BR05-0139(063)				

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 NO. _____
 CAD FILE NAME _____

DATE _____
 BY _____
 SURVEYED _____
 PLOTTED _____
 NOTE BOOK _____
 NO. _____
 STRUCTURE NOTATIONS CHECKED _____



630.7 632.80	631.2 632.80	631.9 632.81	632.9 633.28	634.2 634.42	636.0 635.90	638.2 637.38	640.3 638.52	641.6 639.00	640.7 638.81	638.8 637.96	637.0 636.78	635.6 635.59
11+00	11+50	12+00	12+50	13+00	13+50	14+00	14+50	15+00	15+50	16+00	16+50	17+00

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 3080 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62763
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS 1 PE / SE CORP. 184.000899

DESIGNED - S.W.M.
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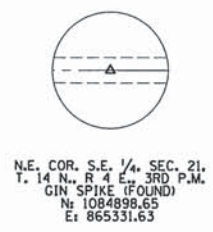
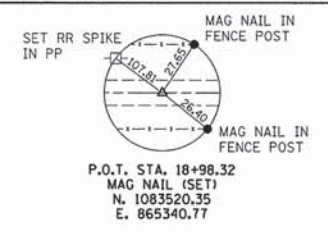
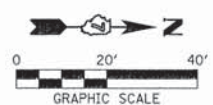
STATE OF ILLINOIS
 MOULTRIE COUNTY HIGHWAY DEPARTMENT

PLAN & PROFILE
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 STA. 11+00.00 TO STA. 17+00.00

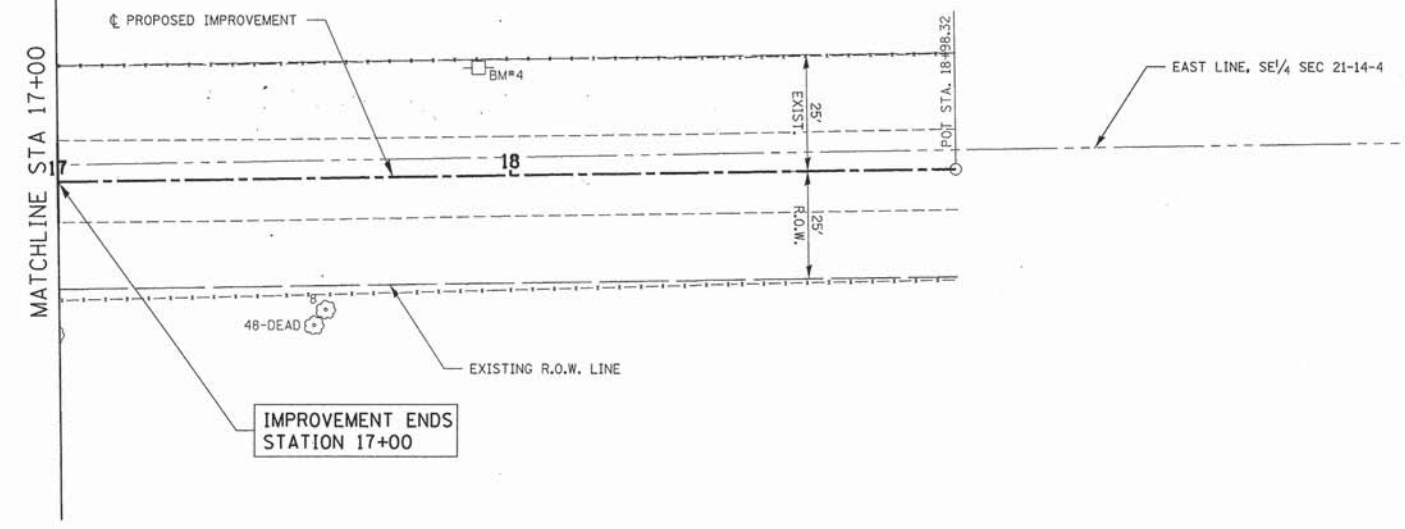
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12	04-06130-00-BR	MOULTRIE	34	5
MARROWBONE ROAD DISTRICT		CONTRACT NO. 95729		
ILLINOIS FED. AID PROJECT BROS-01391063				

PLAN
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PROFILE
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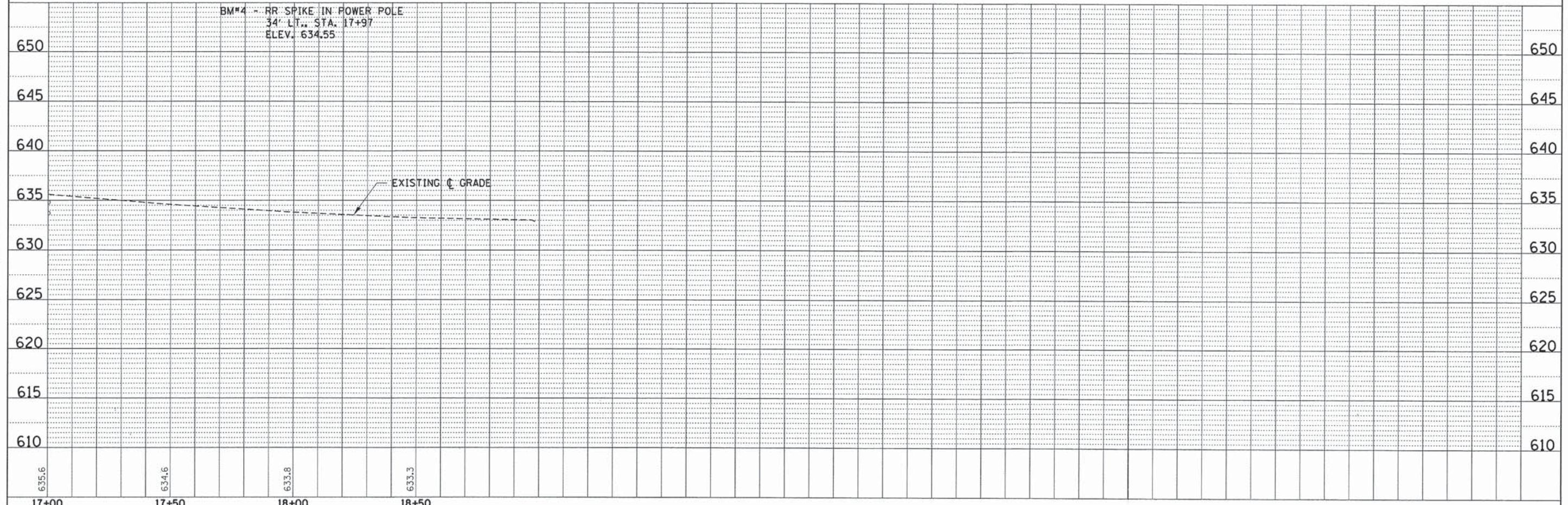


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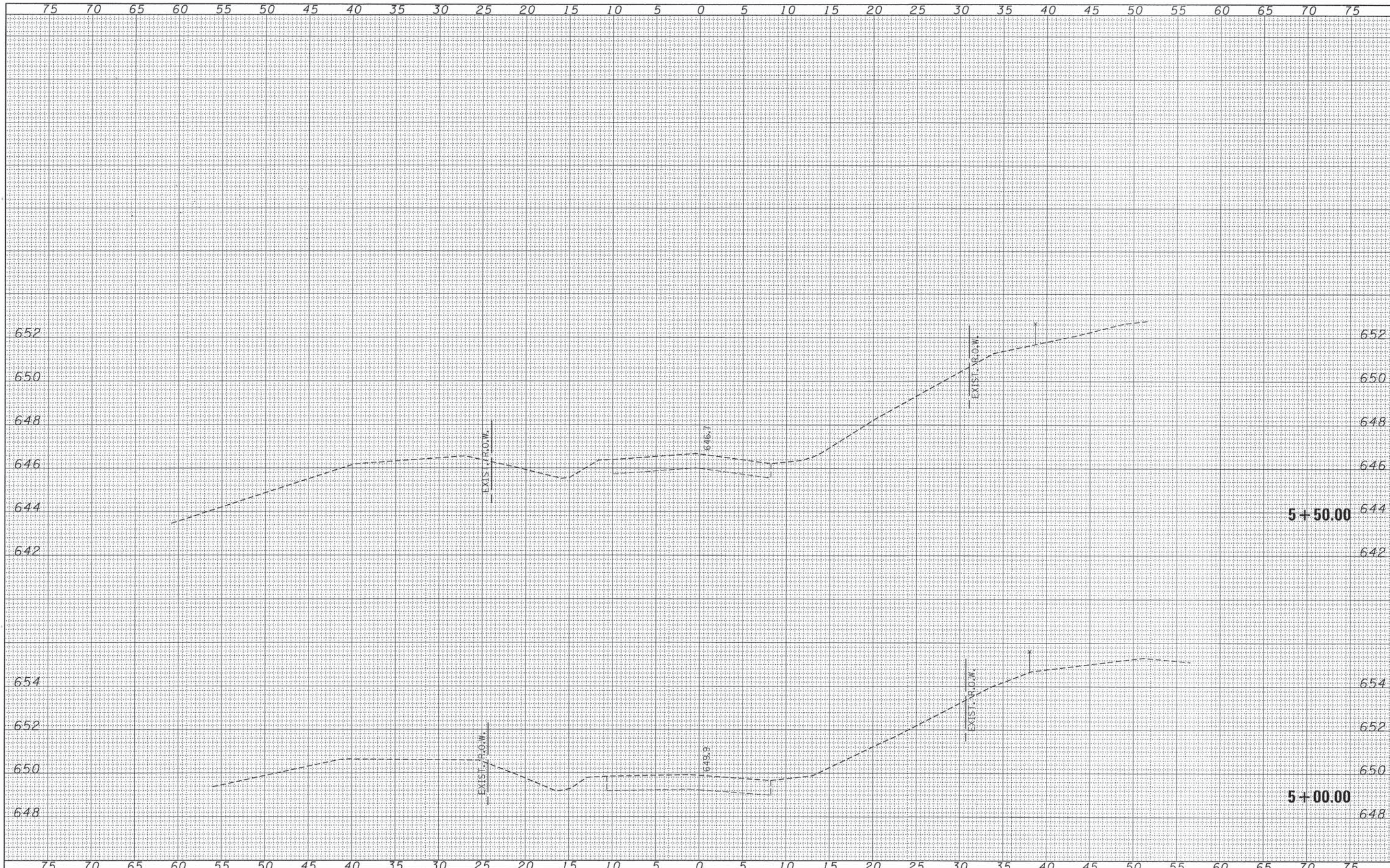


STEPHEN JAMES TIPSWORD
W/2, SW/4, SEC 22, T. 14 N., R. 4 E., 3RD P.M.

PROFILE	SURVEYED	DATE
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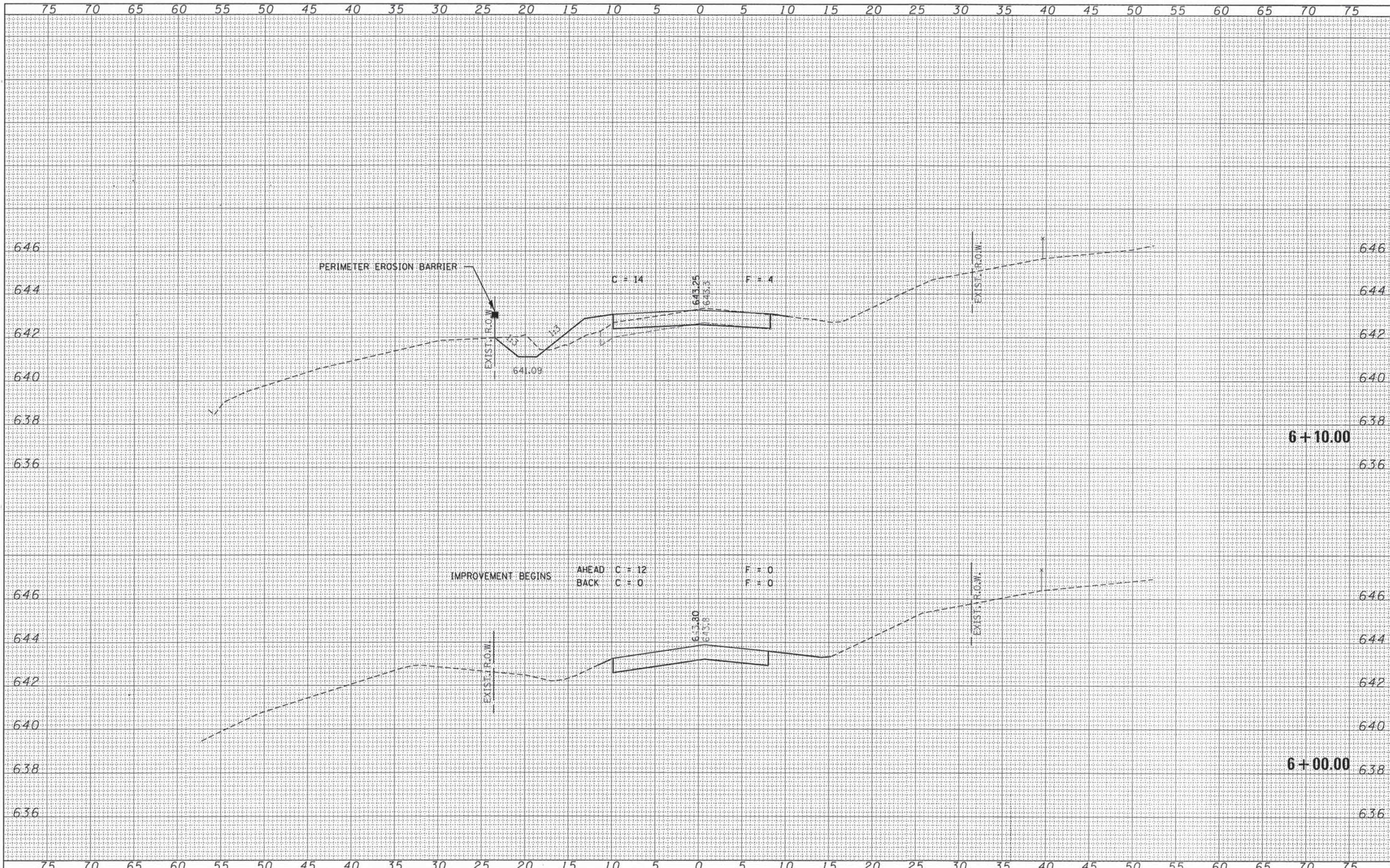
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		DATE - 01/06/14	REVISED -			SCALE: 20H:5V		SHEET NO. 3 OF 3 SHEETS		STA. 17+00.00 TO STA. 19+00.00



DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

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

FILE NAME = 128287-shr-axs.dgn	USER NAME =	DESIGNED - L.A.P.	REVISED -	STATE OF ILLINOIS MOULTRIE COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS				T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND REHWICK, INC. 2015 E. EVERSHED DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62793	PLOT SCALE =	DRAWN - L.G.C.	REVISED -		12	04-06130-00-BR	MOULTRIE	34	7				
ILR ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE / CORP. 184-000891	PLOT DATE = 1/6/2014	CHECKED - S.W.M.	REVISED -		SCALE: 5H:2V SHEET NO. 1 OF 20 SHEETS STA. 5+00.00 TO STA. 5+50.00				CONTRACT NO. 95729				
		DATE - 01/06/14	REVISED -						[ILLINOIS] FED. AID PROJECT BROS-01390631				



DATE	
BY	
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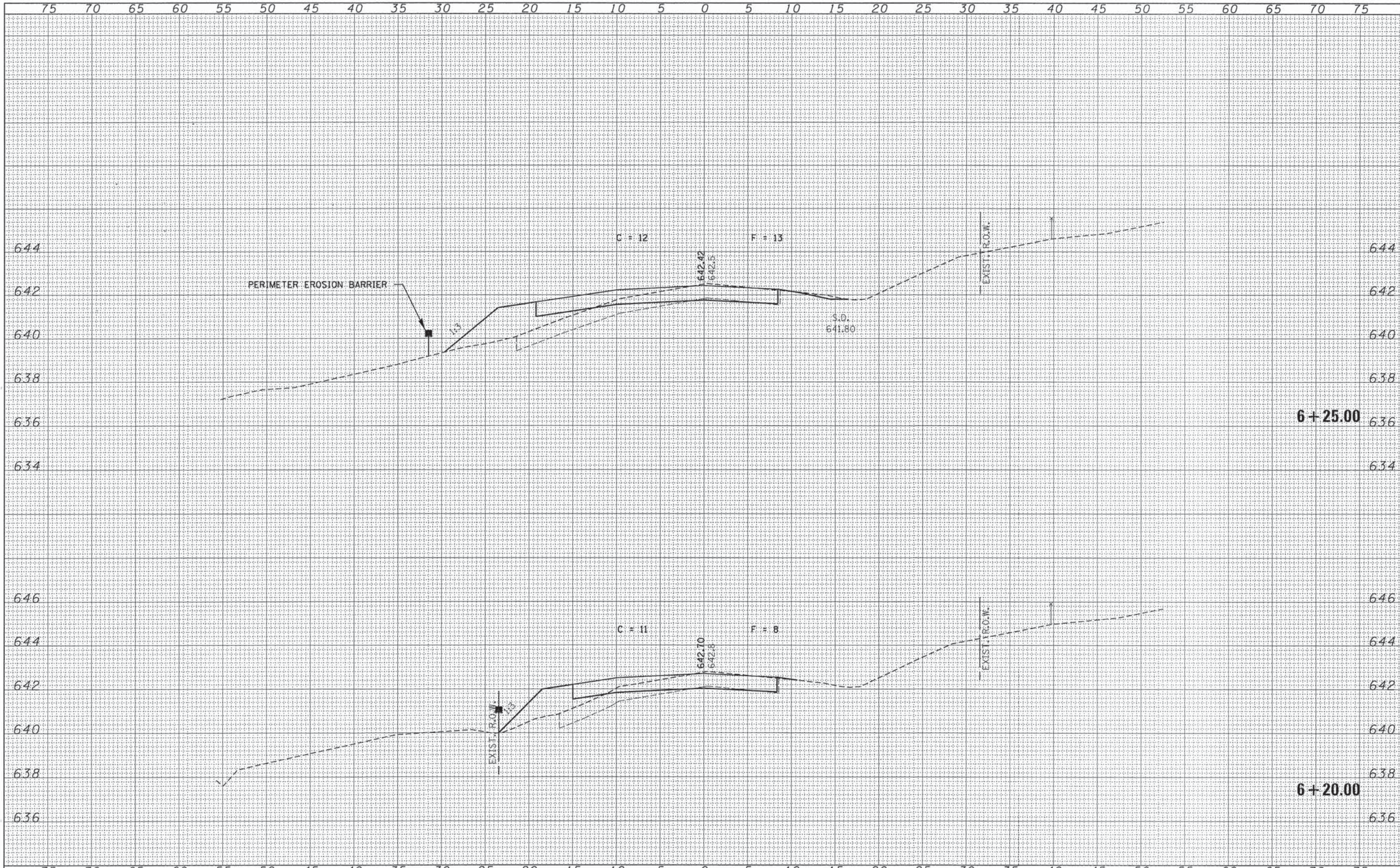
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ILLINOIS PROFESSIONAL DESIGN FIRM 52 / PG. / SE CORP. 194-00088	DRAWN - L.G.C.
	CHECKED - S.W.M.
	DATE - 01/06/14
	PLOT DATE = 1/6/2014

DESIGNED - L.A.P.	REVISED -
DRAWN - L.G.C.	REVISED -
CHECKED - S.W.M.	REVISED -
DATE - 01/06/14	REVISED -

STATE OF ILLINOIS
MOULTRIE COUNTY HIGHWAY DEPARTMENT

SCALE: 5H:2V	SHEET NO. 2 OF 20 SHEETS	STA. 6+00.00 TO STA. 6+10.00
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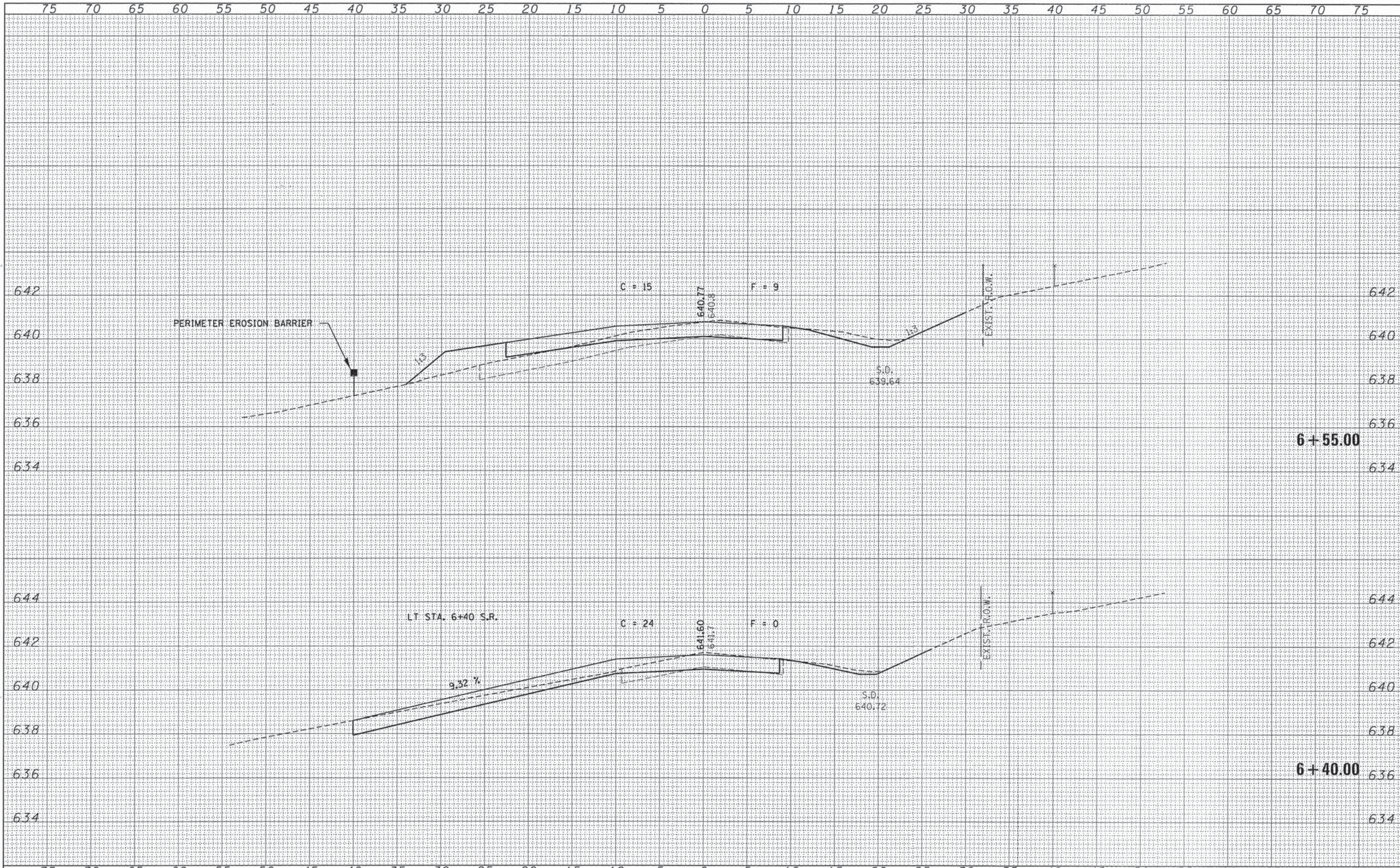
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12	04-06130-00-BR	MOULTRIE	34	8
MARBONE ROAD DISTRICT			CONTRACT NO. 95729	
ILLINOIS FED. AID PROJECT BR05-01390633				



DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
NO. AREAS CHECKED	

DATE	
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ORIGINAL SURVEY	
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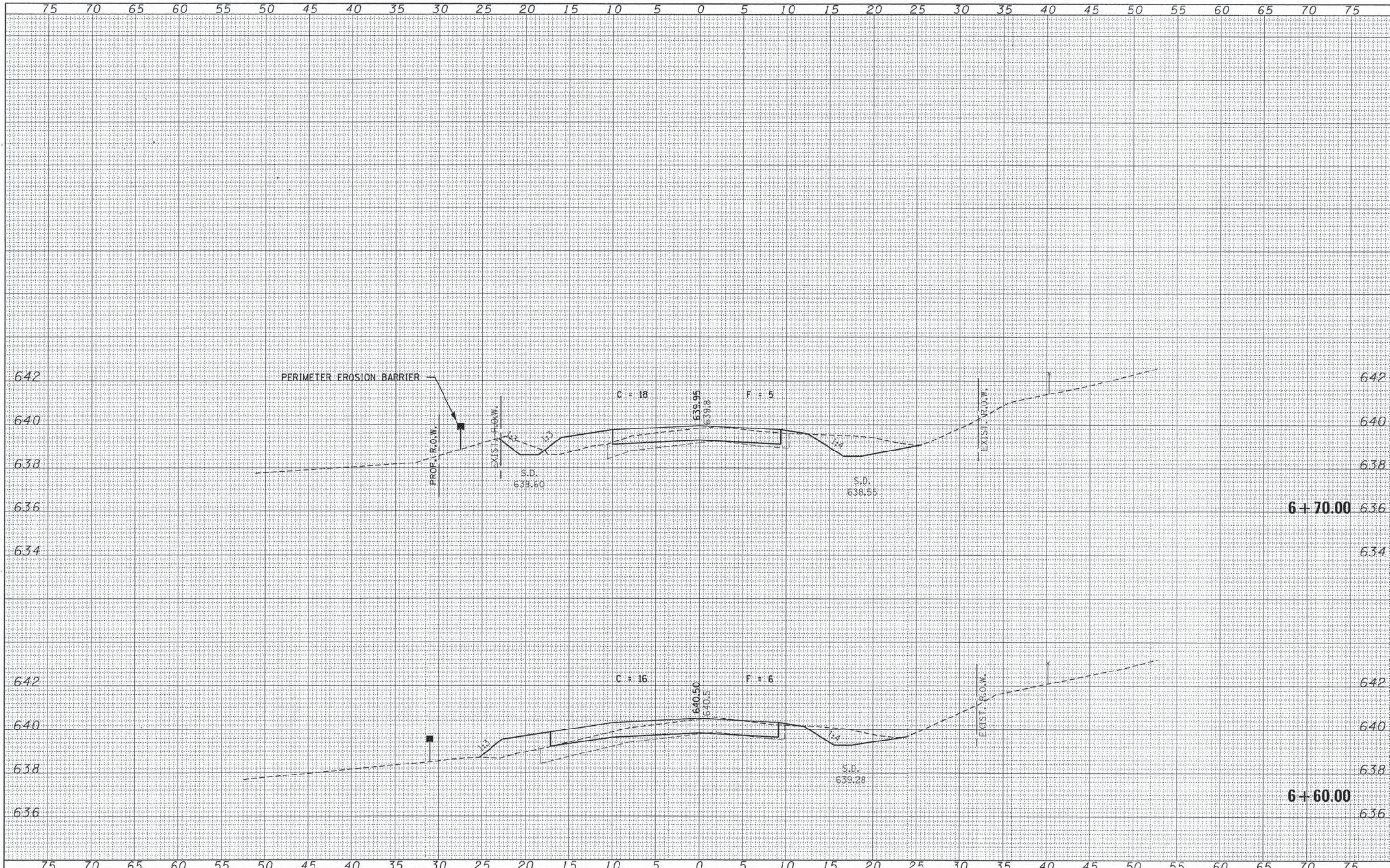
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HAMPTON, LENZINI AND RENWICK, INC. 3005 STEVENSON DRIVE SUITE 201 SPRINGFIELD, ILLINOIS 62769	PLOT SCALE =	DRAWN - L.G.C.	REVISED -		12	04-06130-00-BR	MOULTRIE	34	9			
ILR ILLINOIS PROFESSIONAL DESIGN FIRM L8 1 P E 7 8 E CORP. 184-000099	PLOT DATE = 1/6/2014	CHECKED - S.W.M.	REVISED -		SCALE: 5Hx2V		SHEET NO. 3 OF 20 SHEETS		STA. 6+20.00 TO STA. 6+25.00		CONTRACT NO. 95729	
		DATE - 01/06/14	REVISED -		(ILLINOIS) FED. AID PROJECT BROS-01391063							



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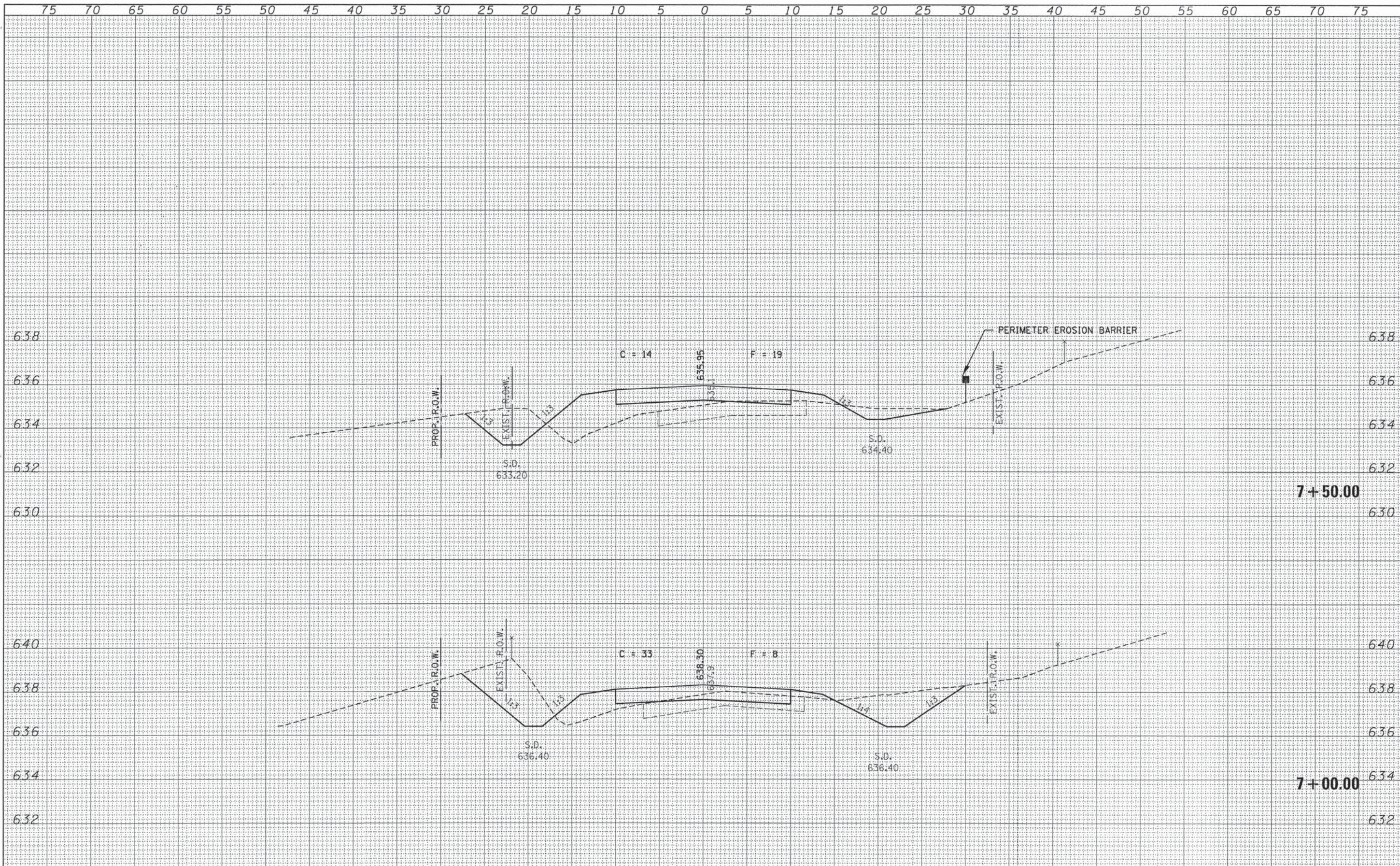
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HAMPTON, LENZINI AND RENWICK, INC. 308 EVERGREEN DRIVE, SUITE 801 SPRINGFIELD, ILLINOIS 62763	PLOT SCALE =	DRAWN - L.G.C.	REVISED -		SCALE: 5H:2V	SHEET NO. 4 OF 20 SHEETS	STA. 6+40.00	TO STA. 6+55.00	12	04-06130-00-BR	MOULTRIE	34	10
HLR ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.00099	PLOT DATE = 1/6/2014	CHECKED - S.W.M.	REVISED -						MARROWBONE ROAD DISTRICT CONTRACT NO. 95729				
		DATE - 01/06/14	REVISED -						[ILLINOIS] FED. AID PROJECT BR05-01390637				



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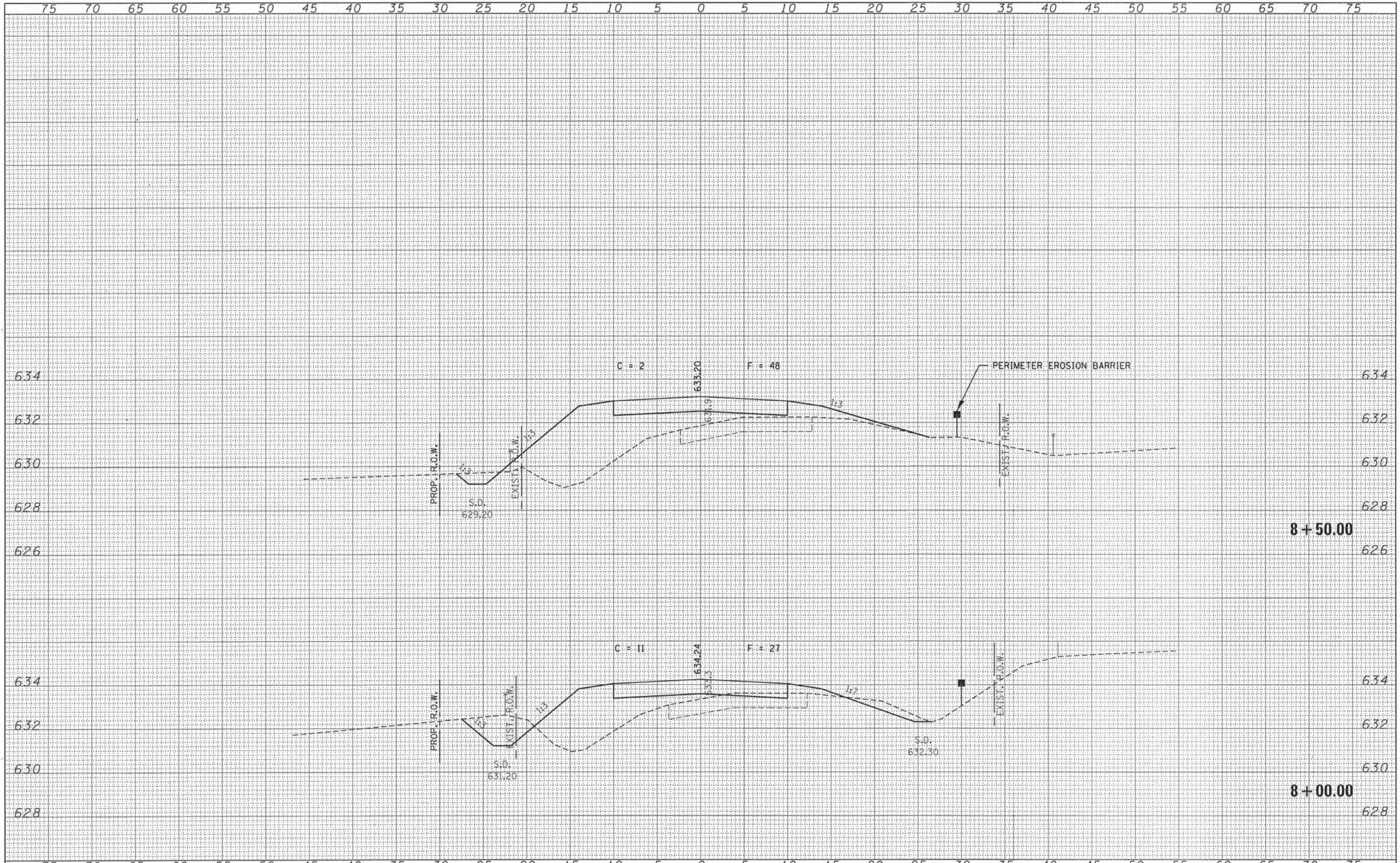
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ILR ILLINOIS PROFESSIONAL DESIGN FIRM L8 / PE / SE CORP. 184-00009	PLOT SCALE =	CHECKED - S.W.M.	REVISED -		12	04-06130-00-BR	MOULTRIE	34	11
	PLOT DATE = 1/6/2014	DATE - 01/06/14	REVISED -		MARROWBONE ROAD DISTRICT		CONTRACT NO. 95729		(ILLINOIS) FED. AID PROJECT BROS-01391063
				SCALE: 5H:2V	SHEET NO. 5 OF 20 SHEETS		STA. 6+60.00 TO STA. 6+70.00		



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HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - L.G.C.	REVISED -	MOULTRIE COUNTY HIGHWAY DEPARTMENT		SCALE: 5H:2V		12	04-06130-00-BR	MOULTRIE	34	12
308 E. EVERSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62763	PLOT SCALE =	CHECKED - S.W.M.	REVISED -			SHEET NO. 6 OF 20 SHEETS		MARROWBONE ROAD DISTRICT		CONTRACT NO. 95729		
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000009	PLOT DATE = 1/6/2014	DATE - 01/06/14	REVISED -			STA. 7+00.00 TO STA. 7+50.00		[ILLINOIS] FED. AID PROJECT BR05-01390633				



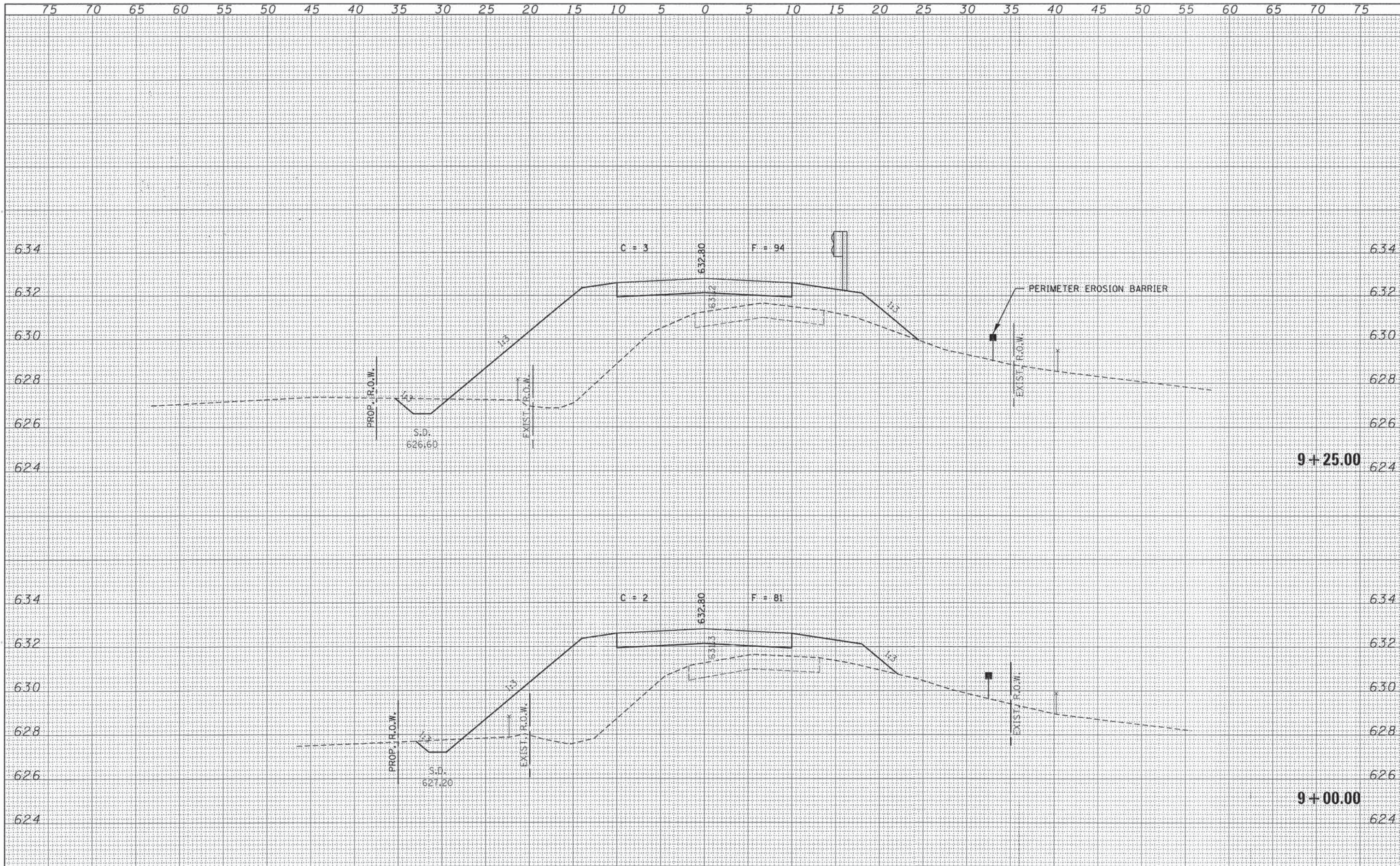
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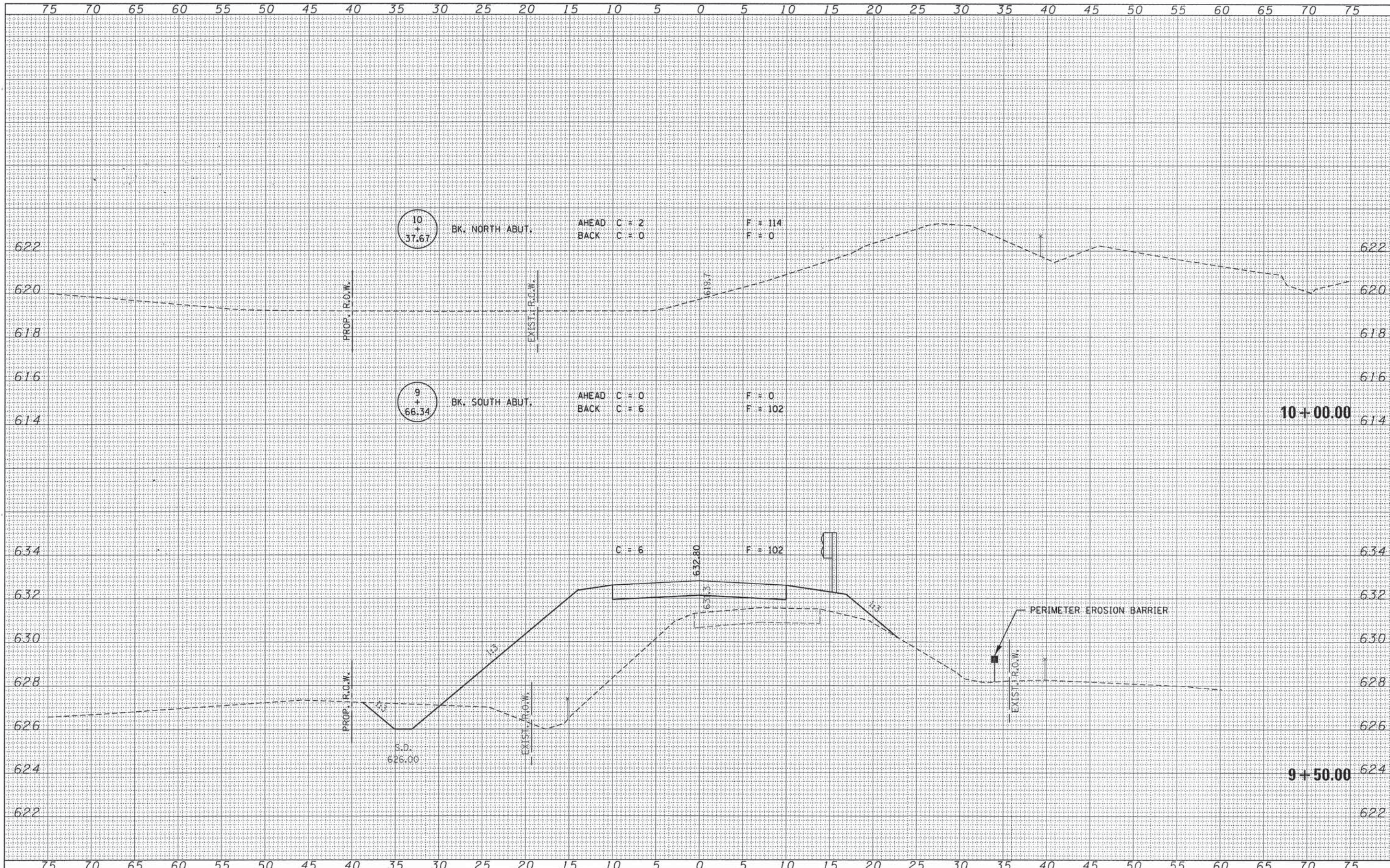
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HAMPTON, LENZINI AND RENWICK, INC.	PLOT SCALE =	DRAWN - L.G.C.	REVISED -		12	04-06130-00-BR	MOULTRIE	34	13				
ILR ILLINOIS PROFESSIONAL DESIGN FIRM 184.00999	PLOT DATE = 1/6/2014	CHECKED - S.W.M.	REVISED -		SCALE: 5H:2V SHEET NO. 7 OF 20 SHEETS STA. 8+00.00 TO STA. 8+50.00				CONTRACT NO. 95729				
		DATE - 01/06/14	REVISED -		[ILLINOIS] FED. AID PROJECT BROS-01390631								

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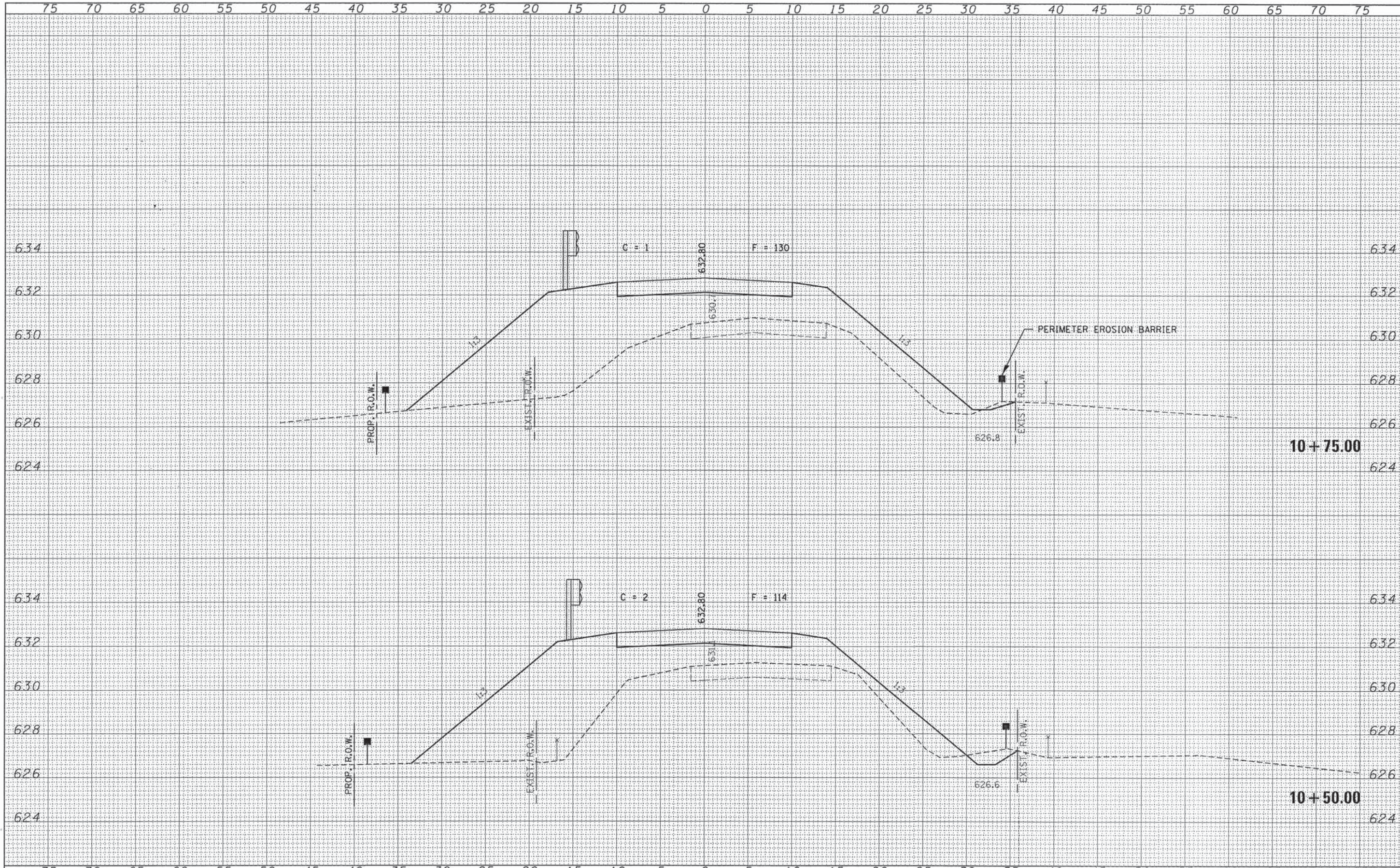


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HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - L.G.C.	REVISED -		12	04-06130-00-BR	MOULTRIE	34	14				
1005 E. RICHMOND DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		CHECKED - S.W.M.	REVISED -		MARROWBONE ROAD DISTRICT				CONTRACT NO. 95729				
ILLINOIS PROFESSIONAL DESIGN FIRM L.E. / S.E. COMP. 184.000000	PLOT SCALE =	DATE - 01/06/14	REVISED -		SCALE: 5Hx2V				SHEET NO. 8 OF 20 SHEETS	STA. 9+00.00 TO STA. 9+25.00	ILLINOIS FED. AID PROJECT BROS-013910631		
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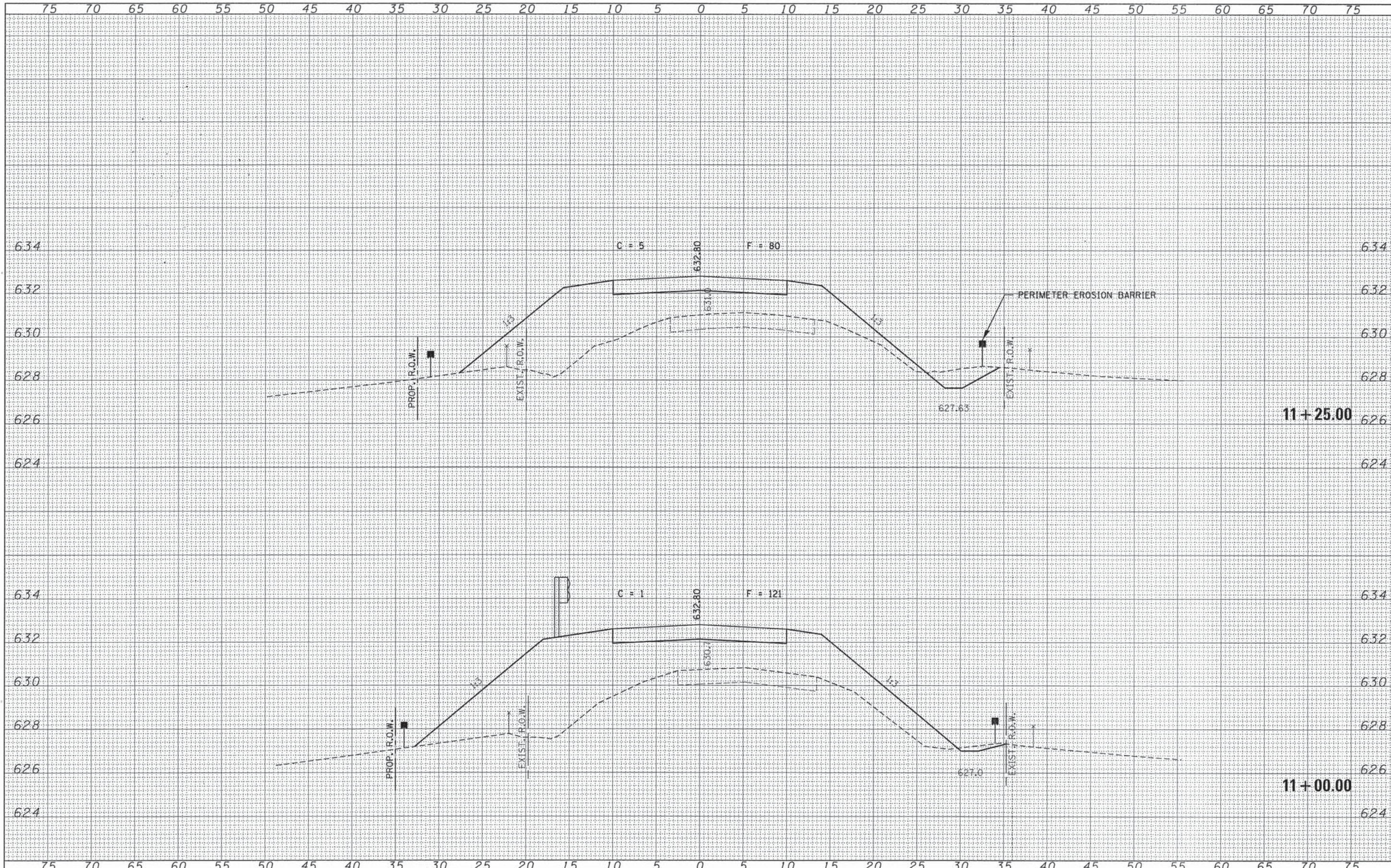
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HAMPTON, LENZINI AND RENWICK, INC. 305 BREWSTER DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	DRAWN - L.G.C.	REVISED -		12	04-06130-00-BR	MOULTRIE	34	16			
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-00099	PLOT DATE = 1/6/2014	CHECKED - S.W.M.	REVISED -		SCALE: 5H:2V		SHEET NO. 10 OF 20 SHEETS		STA. 10+50.00 TO STA. 10+75.00		CONTRACT NO. 95729	
		DATE - 01/06/14	REVISED -		MARRONBONE ROAD DISTRICT [ILLINOIS] FED. AID PROJECT BR05-0139063							



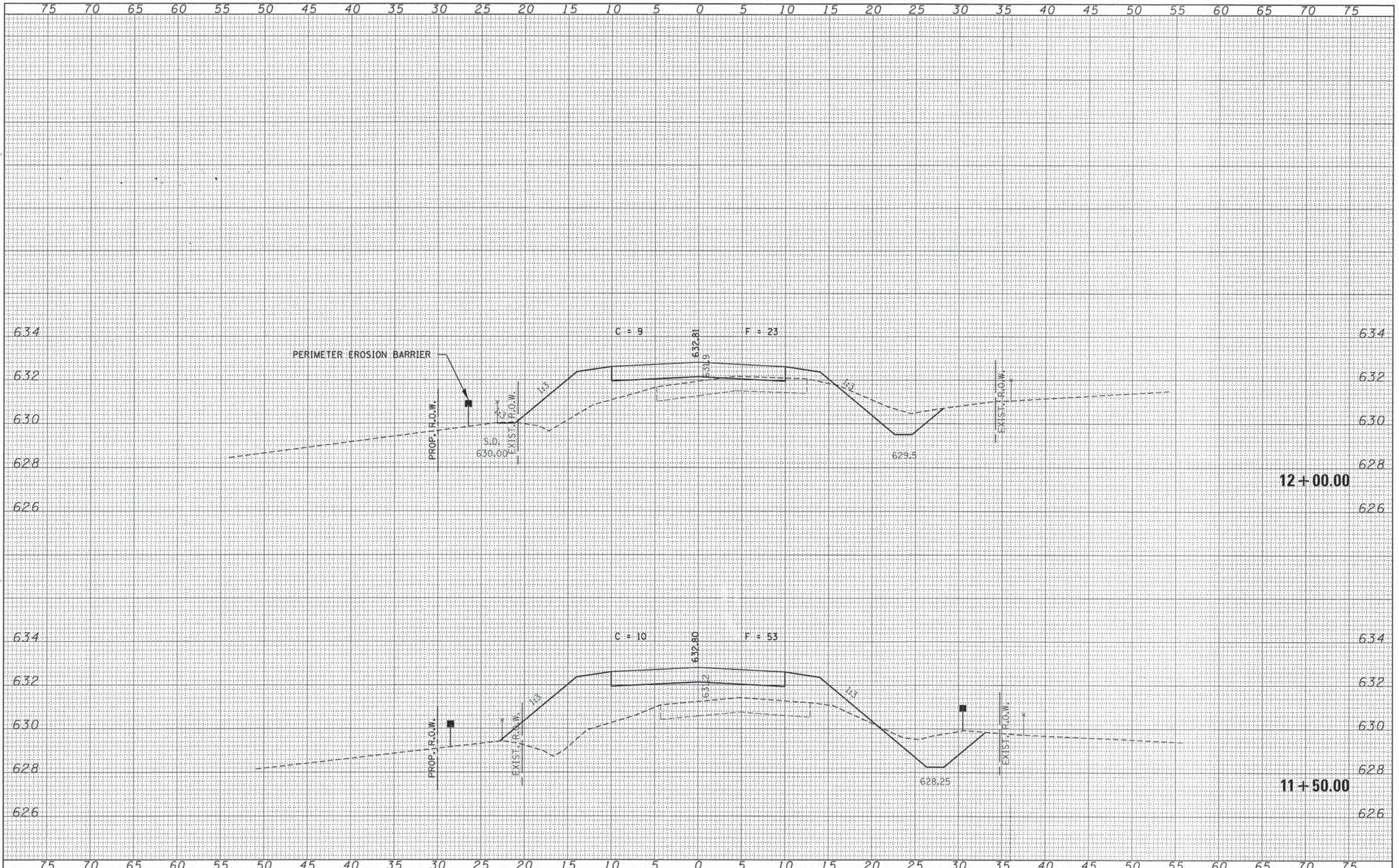
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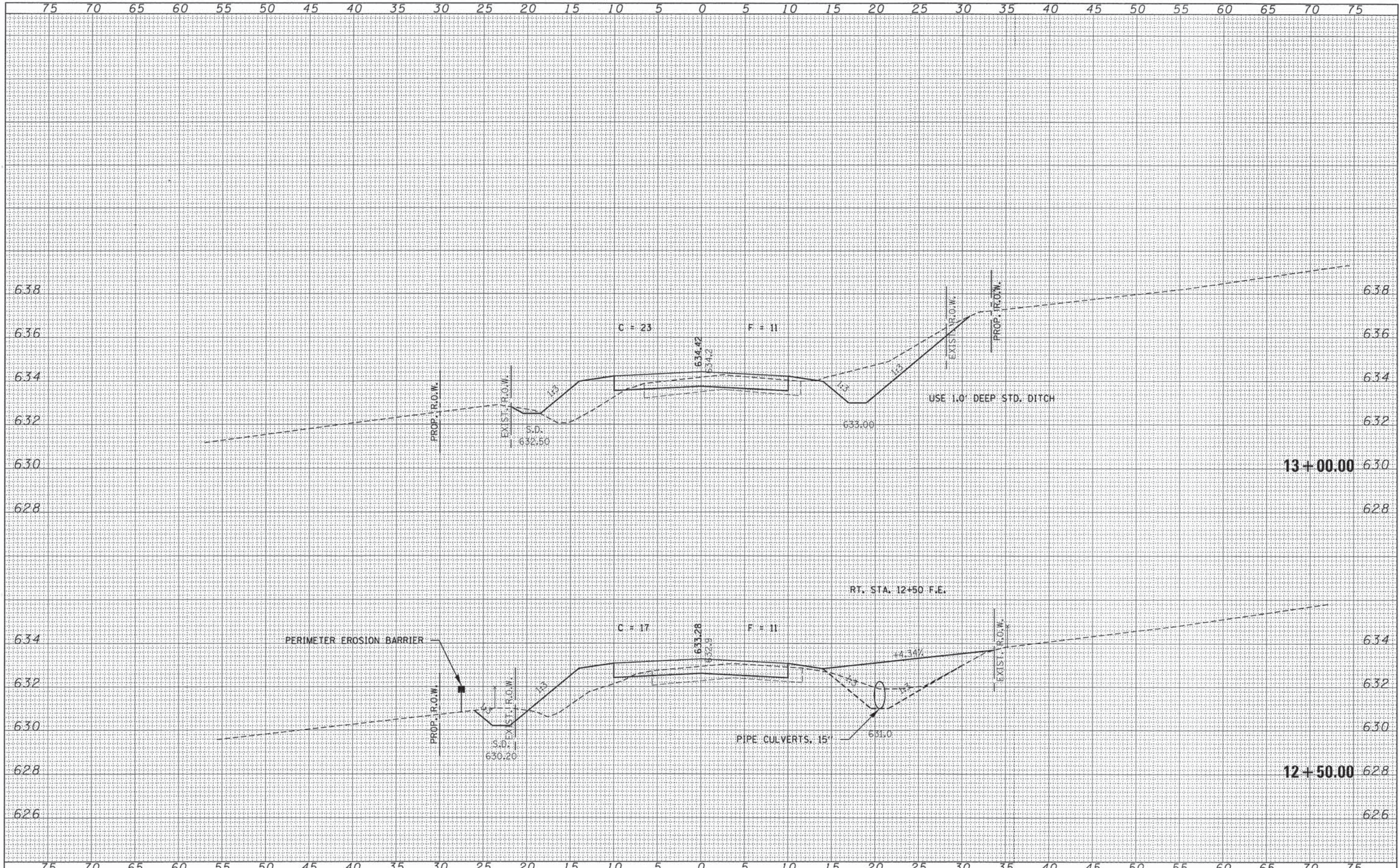
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HAMPTON, LENZINI AND RENWICK, INC. 2003 E. EVERETT DR. SUITE 201 SPRINGFIELD, ILLINOIS 62709	PLOT SCALE =	DRAWN - L.G.C.	REVISED -		SCALE: 5H:2V	SHEET NO. 11 OF 20 SHEETS	STA. 11+00.00	TO STA. 11+25.00	12	04-06130-00-BR	MOULTRIE	34	17
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-00089	PLOT DATE = 1/6/2014	CHECKED - S.W.M.	REVISED -						MARBONBONE ROAD DISTRICT				CONTRACT NO. 95729
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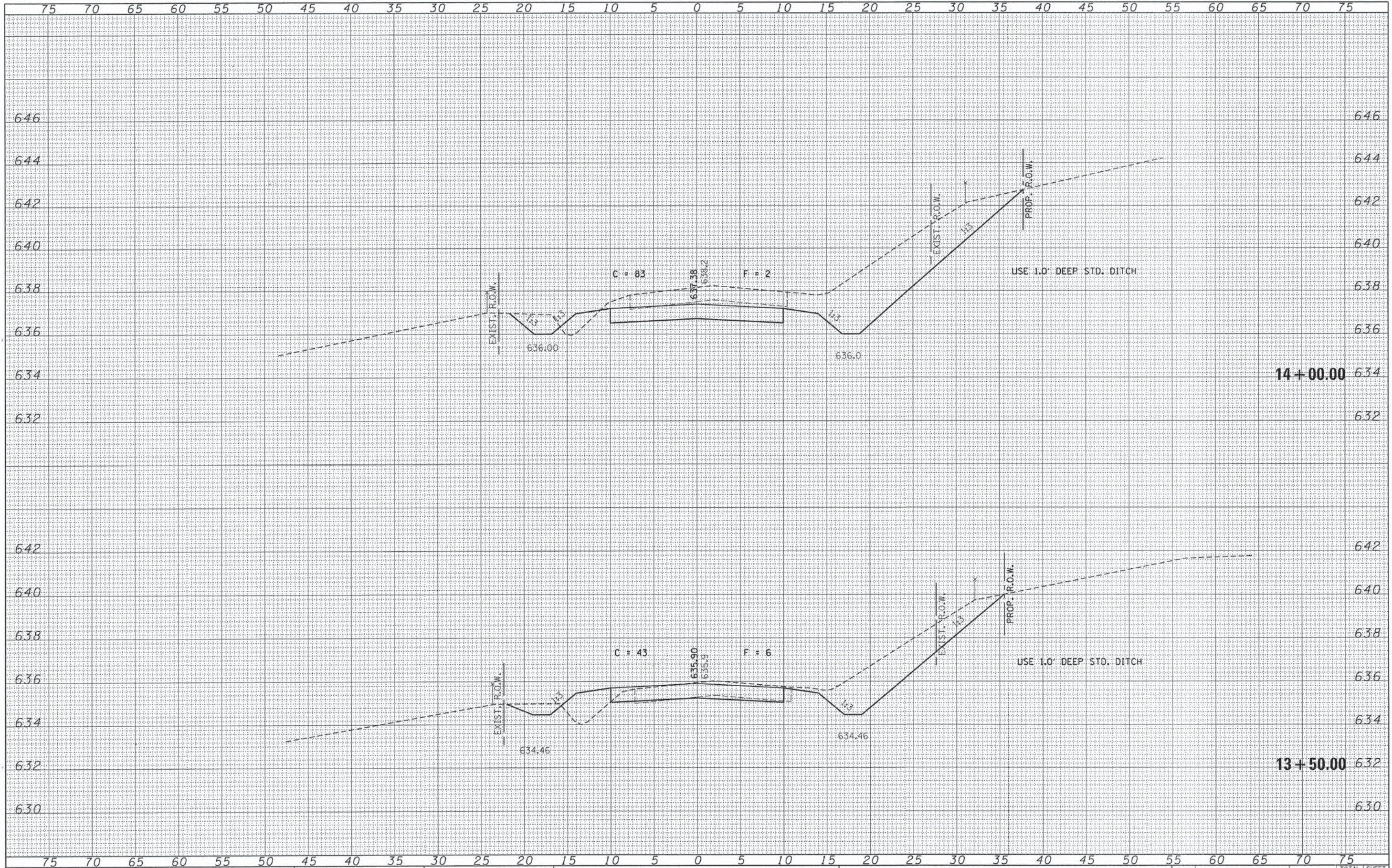
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HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - L.G.C.	REVISED -		12	04-06130-00-BR	MOULTRIE	34	18			
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - S.W.M.	REVISED -		MARROWBONE ROAD DISTRICT			CONTRACT NO. 95729				
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.00059	PLOT DATE = 1/6/2014	DATE - 01/06/14	REVISED -		SCALE: 5H:2V			SHEET NO. 12 OF 20 SHEETS				
				STA. 11+50.00 TO STA. 12+00.00			ILLINOIS FED. AID PROJECT BROS-01391063					



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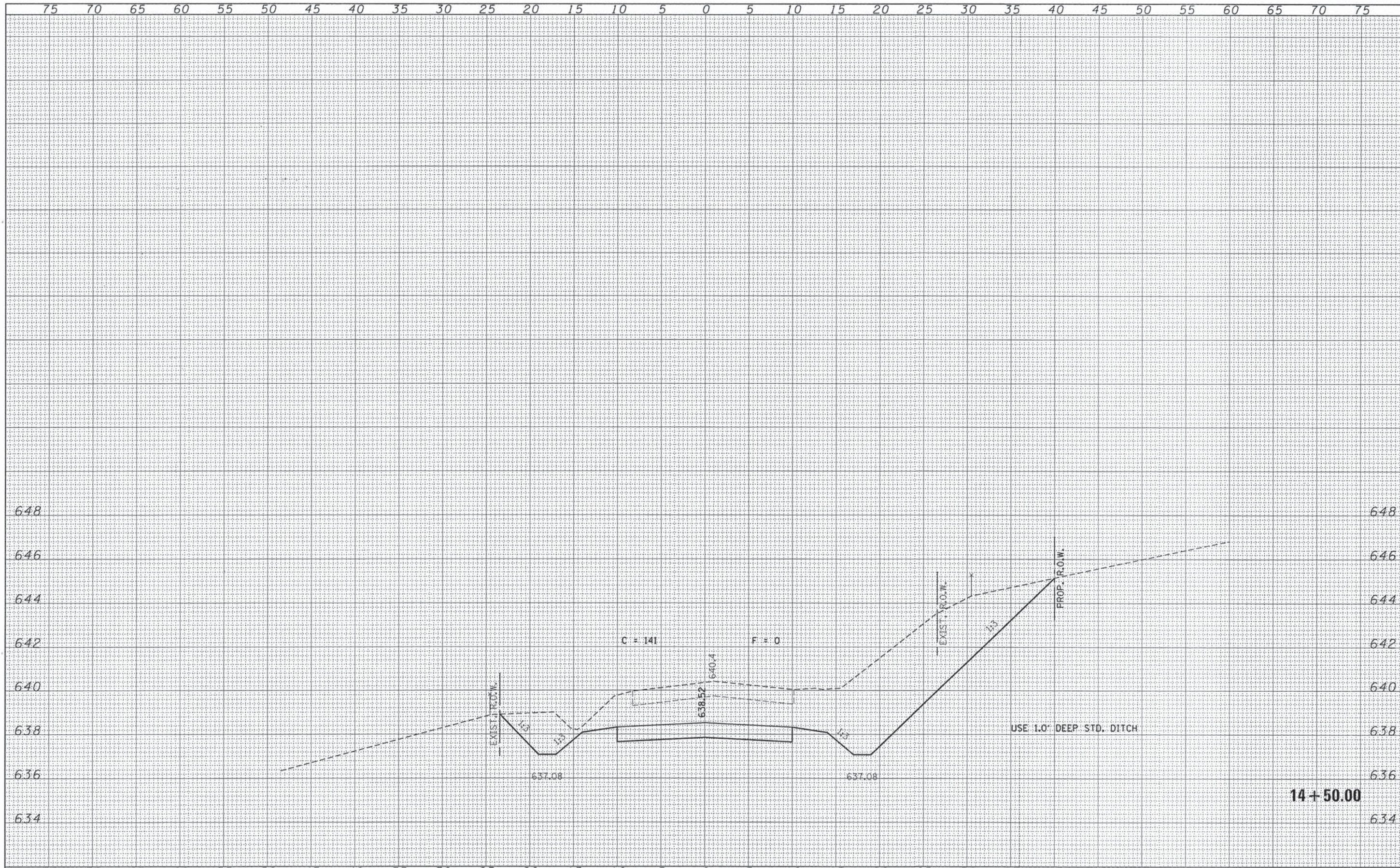
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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	DRAWN - L.G.C.	REVISED -		12	04-06130-00-BR	MOULTRIE	34	19			
HLR ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000950	PLOT DATE = 1/21/2014	CHECKED - S.W.M.	REVISED -		SCALE: 5H:2V		SHEET NO. 13 OF 20 SHEETS		STA. 12+50.00 TO STA. 13+00.00		CONTRACT NO. 95729	
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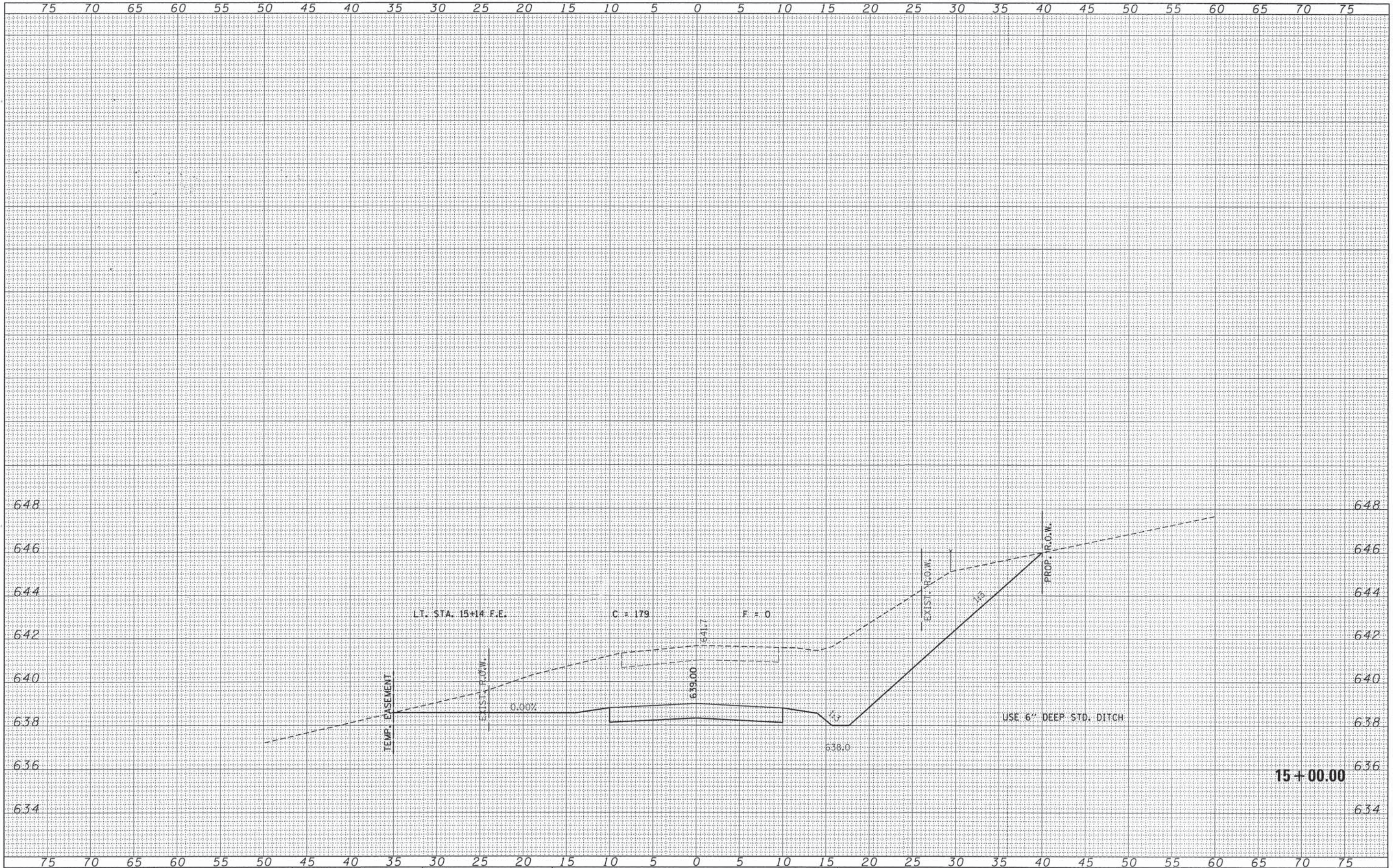
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HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - L.G.C.	REVISED -		T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3945 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62708	PLOT SCALE =	CHECKED - S.W.M.	REVISED -		12	04-06130-00-BR	MOULTRIE	34	20
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-00889	PLOT DATE = 1/6/2014	DATE - 01/06/14	REVISED -		MARROWBONE ROAD DISTRICT		CONTRACT NO. 95729		ILLINOIS FED. AID PROJECT BROS-01390633
				SCALE: 5H:2V	SHEET NO. 14 OF 20 SHEETS		STA. 13+50.00 TO STA. 14+00.00		



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HAMPTON, LENZINI AND RENWICK, INC. 3983 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62783	PLOT SCALE =	DRAWN - L.G.C.	REVISED -		12	04-06130-00-BR	MOULTRIE	34	21		
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-00893	PLOT DATE = 6/16/2014	CHECKED - S.W.M.	REVISED -		MARROWBONE ROAD DISTRICT		CONTRACT NO. 95729				
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 ILLINOIS PROFESSIONAL DESIGN FIRM
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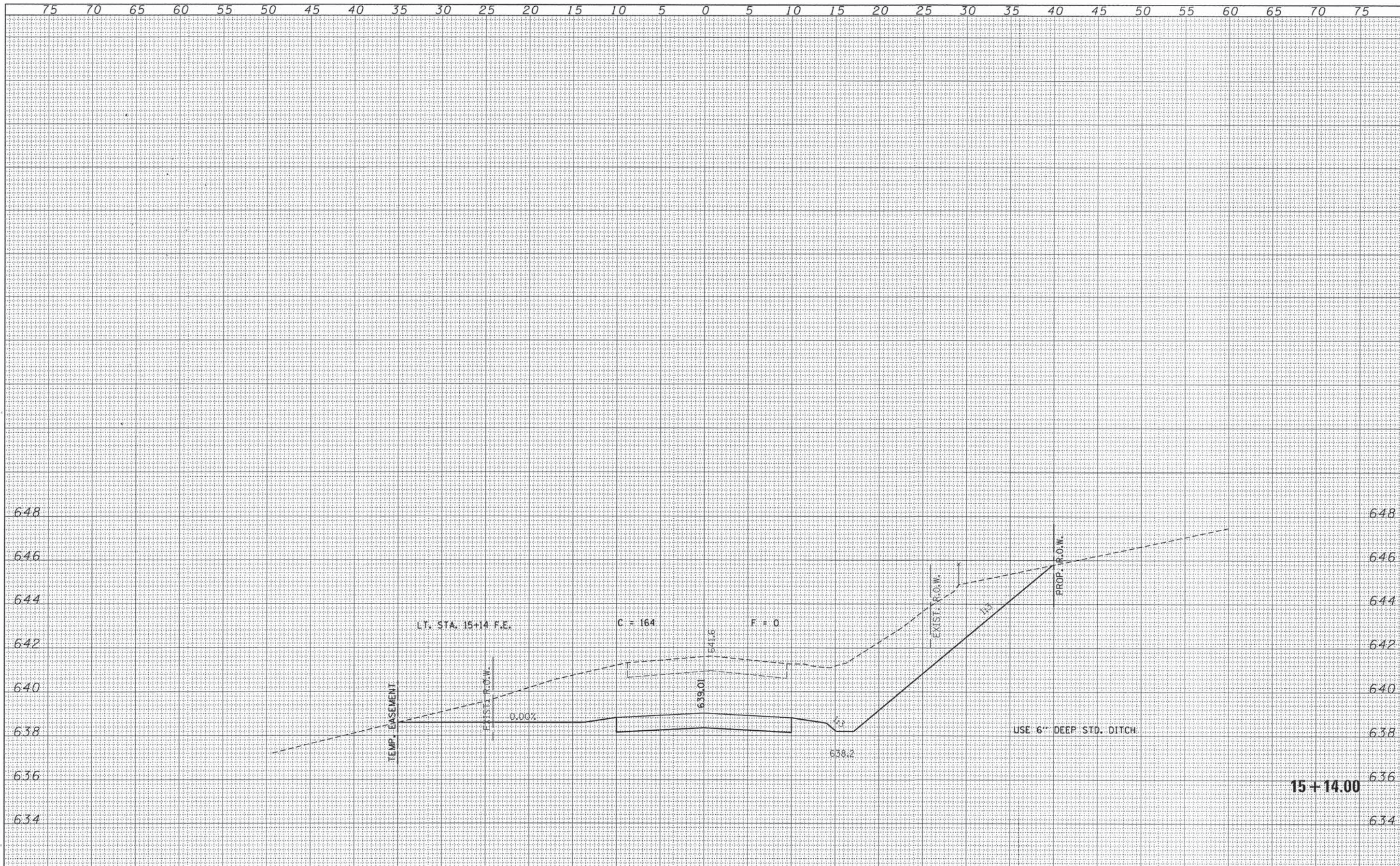
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 MOULTRIE COUNTY HIGHWAY DEPARTMENT

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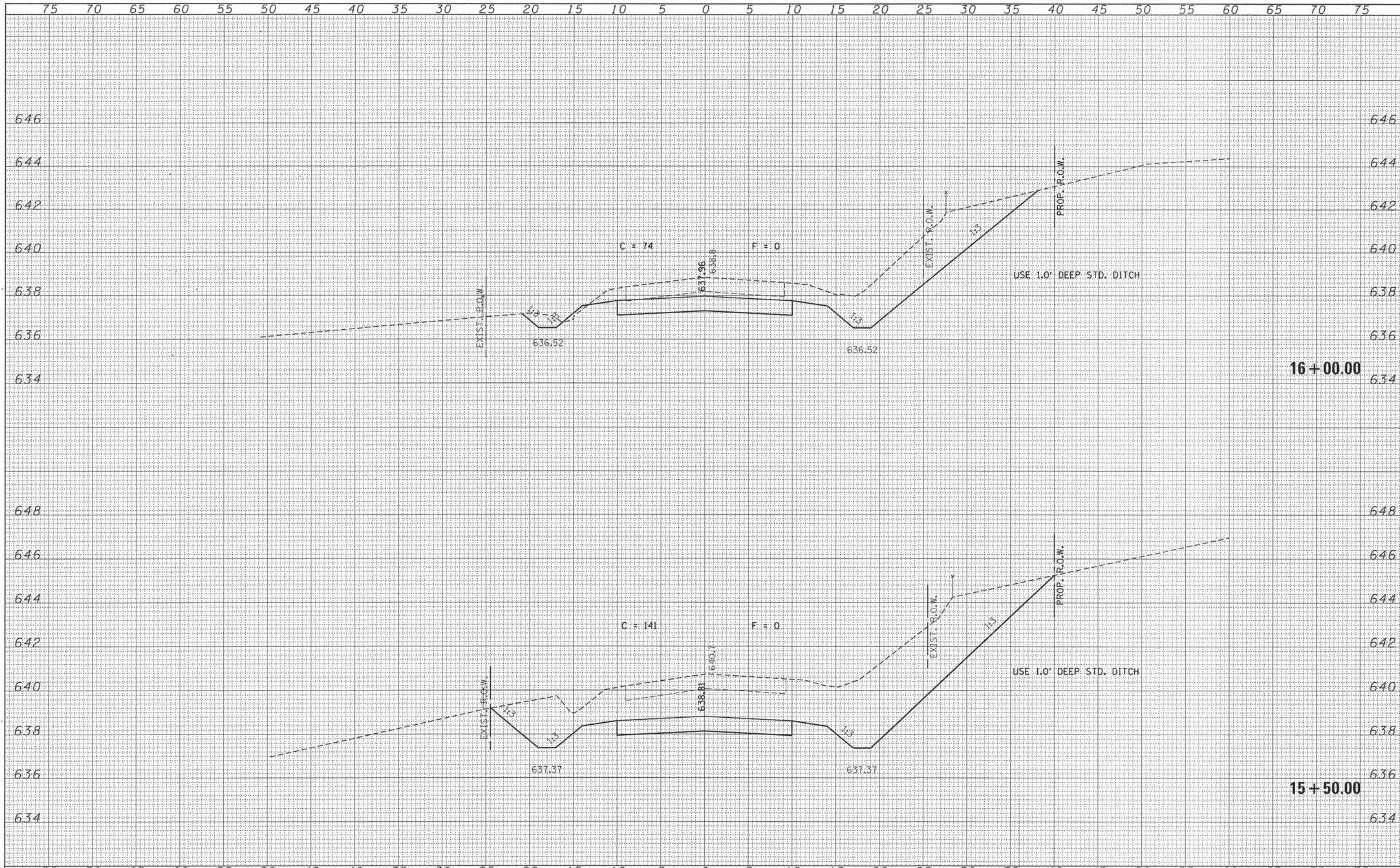
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MARBONBONE ROAD DISTRICT			CONTRACT NO. 95729	
[ILLINOIS] FED. AID PROJECT BROS-01390633				



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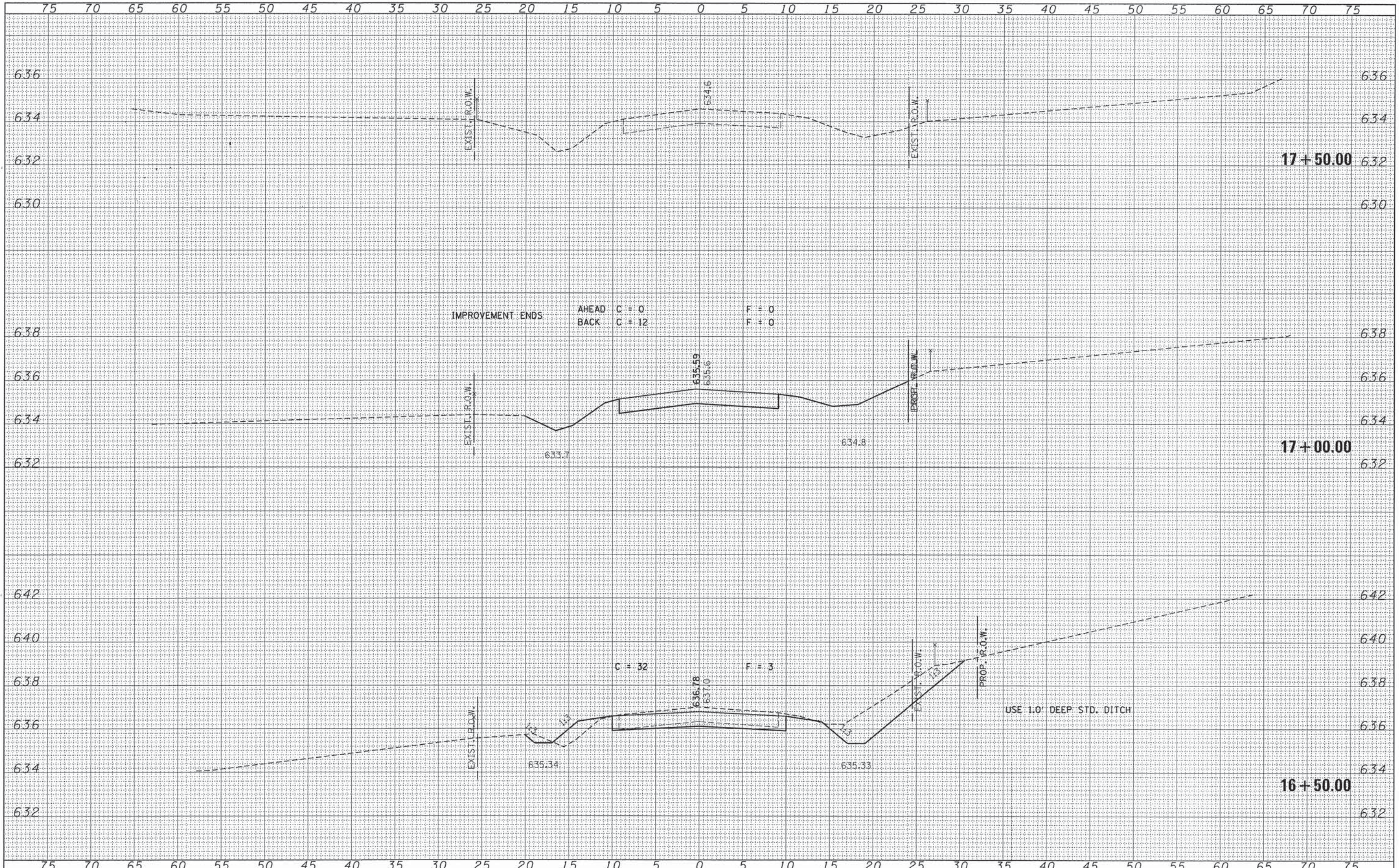
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HAMPTON, LENZINI AND RENWICK, INC. 3005 STEVENSON DRIVE, SUITE 507 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PW / SE CORP. 184.000000	PLOT SCALE =	DRAWN - L.G.C.	REVISED -			SCALE: 5Hx2V	SHEET NO. 17 OF 20 SHEETS	STA. 15+14.00 TO STA. 15+14.00	12	04-06130-00-BR	MOULTRIE	34
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		DATE - 01/06/14	REVISED -					[ILLINOIS] FED. AID PROJECT BR05-0139(063)				



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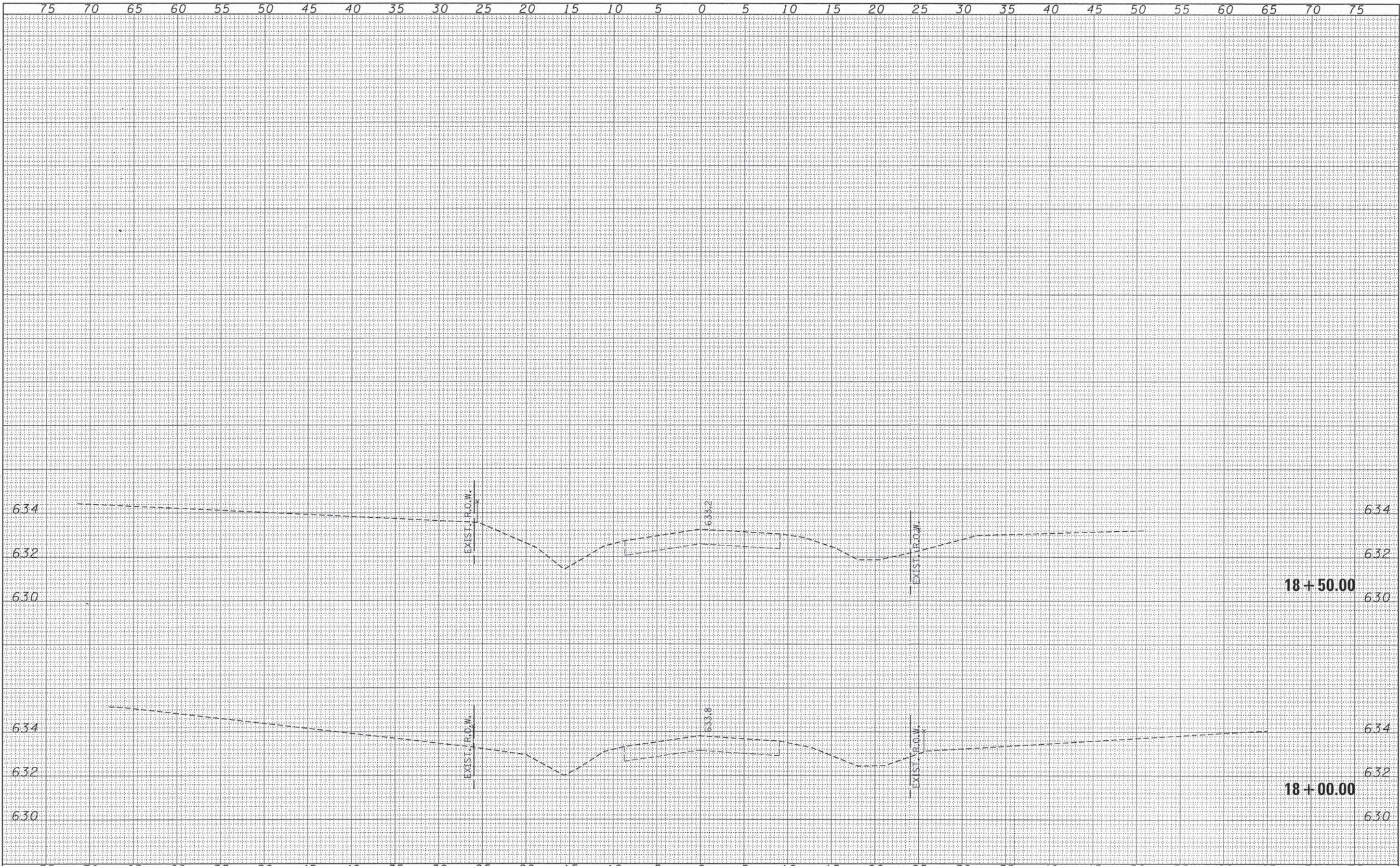
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HAMPTON, LENZINI AND RENWICK, INC. 3888 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62719	PLOT SCALE =	DRAWN - L.G.C.	REVISED -		12	04-06130-00-BR	MOULTRIE	34	24			
ILLINOIS PROFESSIONAL DESIGN FIRM L8 / PE / SE CORP. 184-00099	PLOT DATE = 1/6/2014	CHECKED - S.W.M.	REVISED -		SCALE: 5H:2V		SHEET NO. 18 OF 20 SHEETS		STA. 15+50.00 TO STA. 16+00.00		CONTRACT NO. 95729	
		DATE - 01/06/14	REVISED -		ILLINOIS FED. AID PROJECT BR05-013910633							



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HAMPTON, LENZINI AND RENWICK, INC. 305 BREYER DRIVE SUITE 87 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	DRAWN - L.G.C.	REVISED -		T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HLR ILLINOIS PROFESSIONAL DESIGN FIRM LS 1 PE 188 CORP. 184.000889	PLOT DATE = 1/6/2014	CHECKED - S.W.M.	REVISED -		12	04-06130-00-BR	MOULTRIE	34	25
	DATE - 01/06/14	REVIS	REVISED -		MARROWBONE ROAD DISTRICT		CONTRACT NO. 95729	ILLINOIS FED. AID PROJECT BR05-01390637	
					SCALE: 5Hx2V	SHEET NO. 19 OF 20 SHEETS	STA. 16+50.00	TO STA. 17+50.00	



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	AREAS CHECKED

FILE NAME = 128287-ahf-xxx.dgn	USER NAME =	DESIGNED - L.A.P.	REVISED -	STATE OF ILLINOIS MOULTRIE COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS				
HAMPTON, LENZINI AND RENWICK, INC. 3883 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62719 ILR ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-00889	PLOT SCALE =	DRAWN - L.G.C.	REVISED -		T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT DATE = 1/6/2014		CHECKED - S.W.M.	REVISED -		12	04-06130-00-BR	MOULTRIE	34	26
		DATE - 01/06/14	REVISED -		MARROWBONE ROAD DISTRICT		CONTRACT NO. 95729		ILLINOIS FED. AID PROJECT BROS-01391063

SCALE: 5H:2V SHEET NO. 20 OF 20 SHEETS STA. 18+00.00 TO STA. 18+50.00

BENCHMARK: Chiseled "□" on N.E. curb 10' Rt., Sta. 10+26, Elev. 632.08

EXISTING STRUCTURE: Two-Span precast prestressed concrete deck beam bridge on closed timber abutments, concrete pier cap on timber piles. 50.9' fc.-fc. abuts.; 21.0' o.-o. deck; Str. No. 070-4611

Structure closed to traffic during construction.

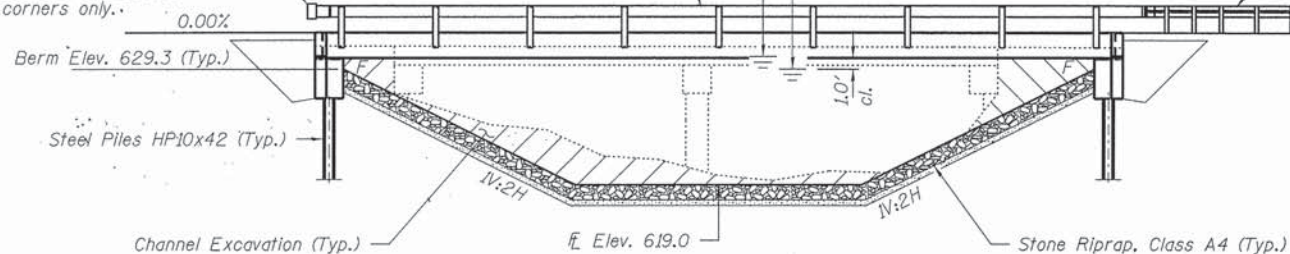
Contractor shall salvage the existing deck beams. - See Special Provisions

Curled End Sections with Terminal Marker - Direct Applied (Typ.) See sheet 5 of 8 for details. SW & NE corners only.

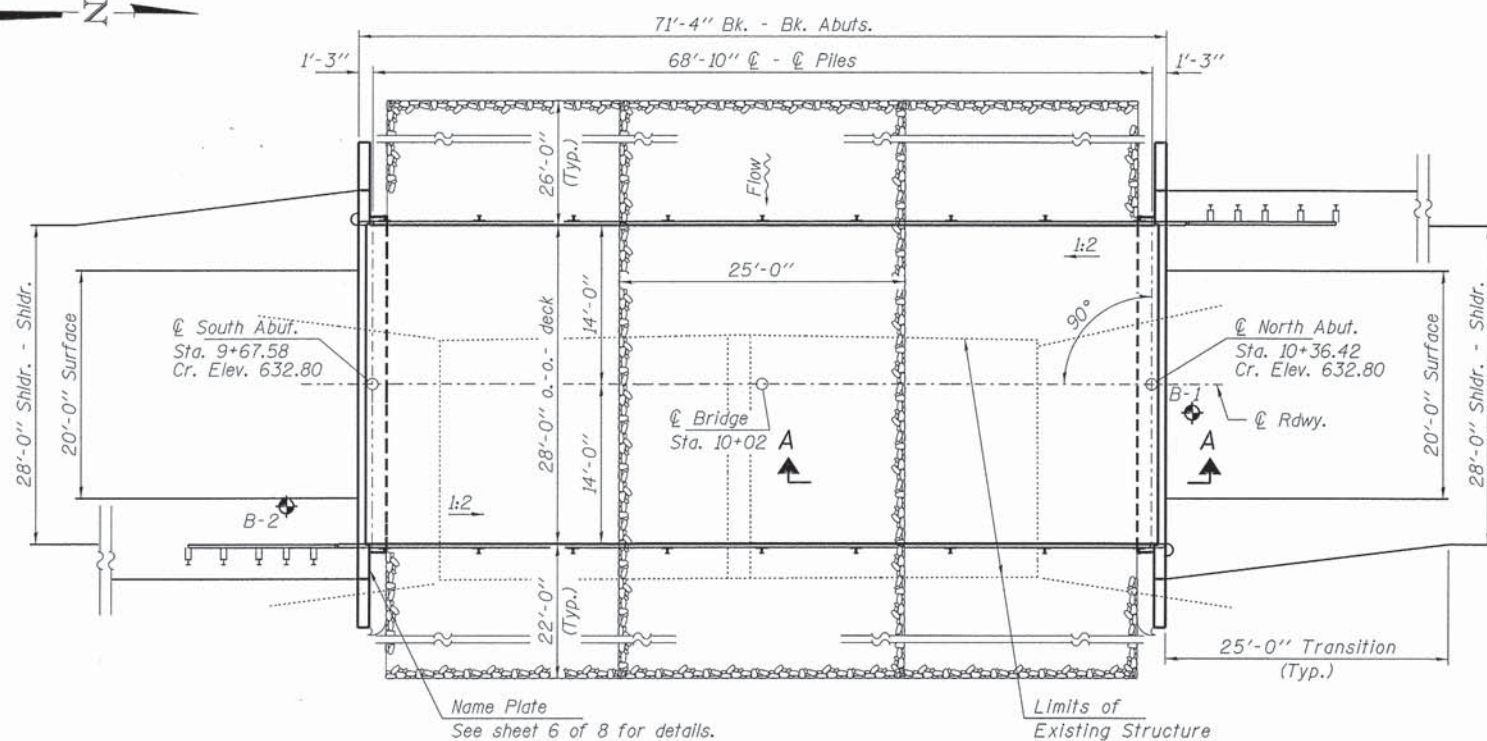
Steel Railing, Type S-1 See sheets 4 & 5 of 8 for details.

100 Yr. H.W. Elev. 630.4
15 Yr. H.W. Elev. 629.3

Traffic Barrier Terminal, Type 5A and Type 1 (SPECIAL) NW & SE corners only.



ELEVATION



PLAN

DESIGN SPECIFICATIONS

2012 AASHTO LRFD Bridge Design Specifications, 6th Edition with all applicable interims.

LOADING HL=93

Allow 50#/sq. ft. for future wearing surface.

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.)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.118g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.243g
Soil Site Class = C

Design Scour Elevations (ft.)		
	N. Abut.	S. Abut.
Q100	626.7	626.7

WATERWAY INFORMATION

		Existing Low Grade Elev. 630.8 @ Sta. 11+00		Proposed Low Grade Elev. 632.8 @ Sta. 9+00	
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.	Natural Head - Ft.	Headwater El.
			Exist. Prop.	Exist. Prop.	Exist. Prop.
Design	10	1406	330 430	628.93 0.24 0.23	629.17 629.16
Base	100	2640	370 520	629.26 0.31 0.29	629.57 629.55
Overtop Existing	100	2640	370 520	630.43 0.91 0.62	631.34 631.05
Max. Calc.	500	3570	370 520	630.42 0.91 0.83	631.33 630.42

10 Year Velocity through Existing Bridge = 4.3 fps
10 Year Velocity through Proposed Bridge = 3.3 fps

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."

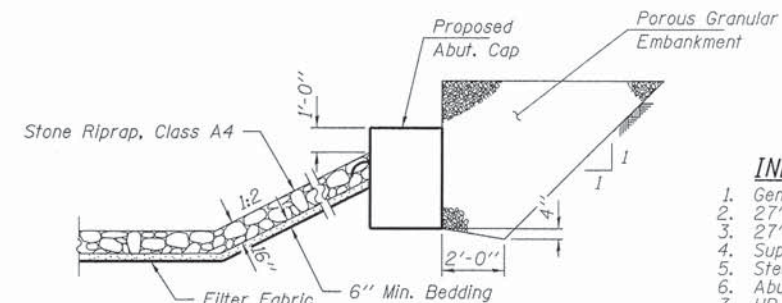
Steven W. Megginson 01/06/2014
ILLINOIS STRUCTURAL ENGINEER NO. 081-6064



Expires 11-30-2014

GENERAL NOTES

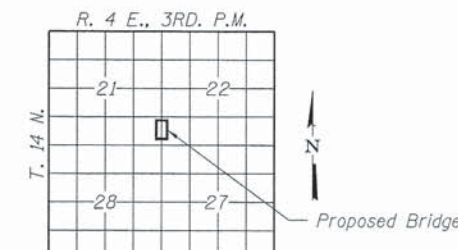
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations of the South Abutment or approved by the Engineer before ordering the remainder of piles.
Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60.
Excavation required to construct the Abutments and Piers 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 14 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.



SECTION A-A
Note: See Special Provisions for Stone Riprap, Class A4.

INDEX OF STRUCTURE SHEETS

1. General Plan & Elevation
2. 27"x48" PPC Deck Beam
3. 27"x48" PPC Deck Beam Details
4. Superstructure Details
5. Steel Railing, Type S-1
6. Abutments
7. HP Pile Details
8. Borings



LOCATION SKETCH

BRUSH CREEK
BUILT 201 BY
MOULTRIE COUNTY
SEC. 04-06130-00-BR
MARROWBONE ROAD DISTRICT
STR. NO. 070-4634
LOADING HL-93

NAME PLATE
See Std. 515001

TOTAL BILL OF MATERIAL

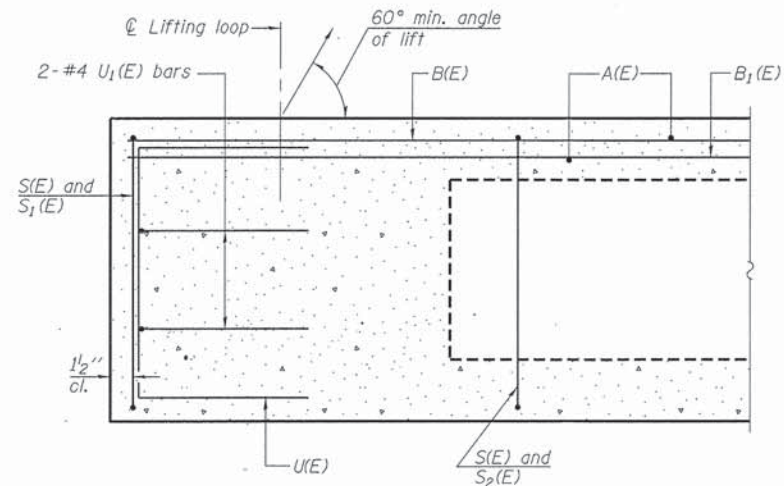
ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.			125
Stone Riprap, Class A4	Ton			630
Filter Fabric	Sq. Yd.			810
Removal of Existing Structures	Each			1
Concrete Structures	Cu. Yd.		28.4	28.4
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	1,960		1,960
Reinforcement Bars	Pound		3,160	3,160
Steel Railing, Type S-1	Foot	138		138
Furnishing Steel Piles HP10x42	Foot		315	315
Driving Piles	Foot		315	315
Test Pile Steel HP10x42	Each		1	1
Name Plates	Each		1	1
Porous Granular Embankment	Cu. Yd.		62	62

FILE NAME = 120287-sht-bridge.dgn	USER NAME =	DESIGNED - L.A.P.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 308 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62761	PLOT SCALE =	CHECKED - S.W.M.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM L5 / PE / SE CORP. 184-000889	PLOT DATE = 1/6/2014	DRAWN - R.D.H.	REVISED -
		CHECKED - S.W.M.	REVISED -

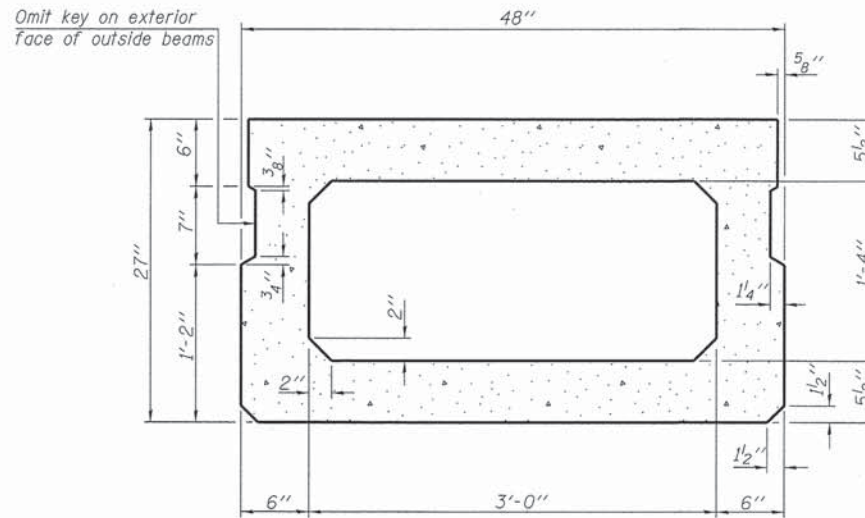
STATE OF ILLINOIS MOULTRIE COUNTY HIGHWAY DEPARTMENT

GENERAL PLAN & ELEVATION STRUCTURE NO. 070-4634 SHEET NO. 1 OF 8 SHEETS

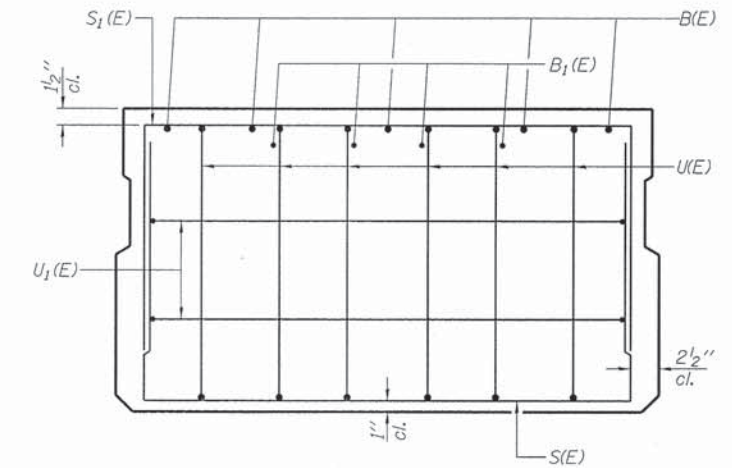
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12	04-06130-00-BR	MOULTRIE	34	27
MARROWBONE ROAD DISTRICT			CONTRACT NO. 95729	
[ILLINOIS] FED. AID PROJECT BROS-0139(063)				



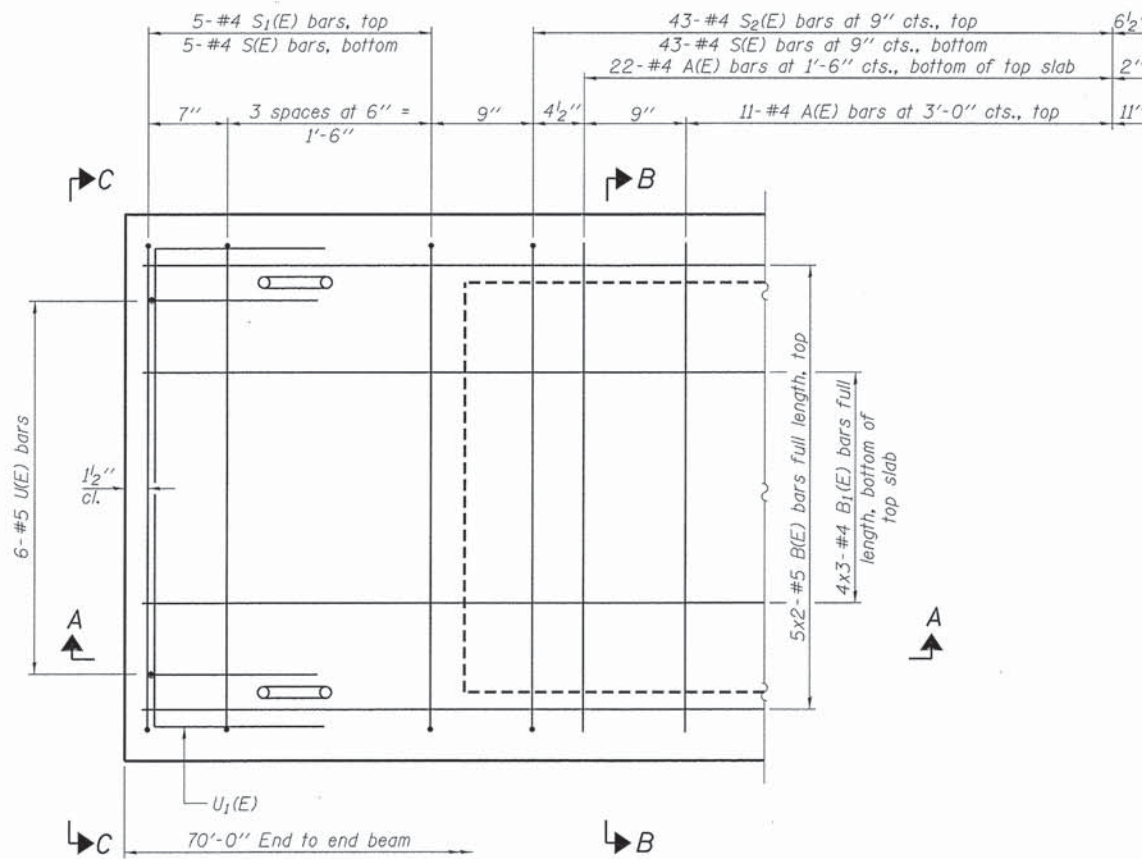
SECTION A-A



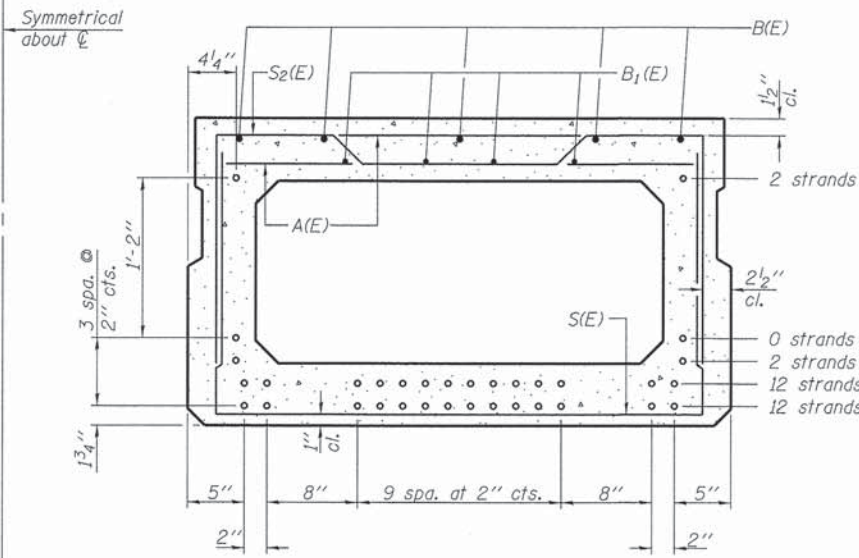
SECTION B-B
(Showing dimensions)



VIEW C-C



PLAN VIEW



SECTION A-A

(Showing reinforcement and permissible strand locations)

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

BAR LIST
ONE BEAM ONLY

(For information only)

Bar	No.	Size	Length	Shape
A(E)	66	#4	3'-7"	—
B(E)	10	#5	36'-2"	—
B1(E)	12	#4	24'-7"	—
S(E)	97	#4	7'-5"	U
S1(E)	10	#4	6'-11"	U
S2(E)	87	#4	7'-2"	U
U(E)	12	#5	4'-6"	U
U1(E)	4	#4	6'-0"	U

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

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 5x2-#5 etc. indicates 5 lines of bars with 2 lengths per line.

MINIMUM BAR LAP

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

PD-2748-0

7-1-10

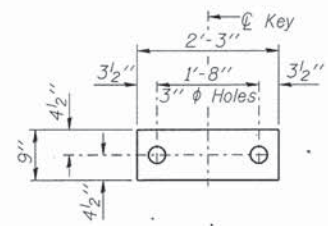
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308 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62761	PLOT SCALE =	DRAWN - R.D.H.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM L.S./P.E./S.E. CORP. 194-900989	PLOT DATE = 1/6/2014	CHECKED - S.W.M.	REVISED -

STATE OF ILLINOIS
MOULTRIE COUNTY HIGHWAY DEPARTMENT

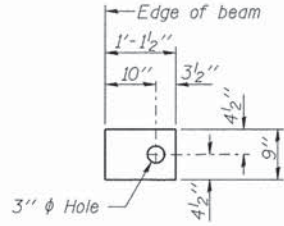
27" x 48" PPC DECK BEAM
STRUCTURE NO. 070-4634

SHEET NO. 2 OF 8 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12	04-06130-00-BR	MOULTRIE	34	28
MARRROWBONE ROAD DISTRICT			CONTRACT NO. 95729	
[ILLINOIS] FED. AID PROJECT BROS-0139(063)				



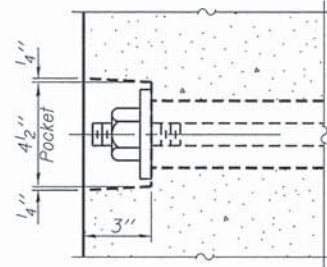
FABRIC BEARING PAD
(Interior - 12 Req'd.)



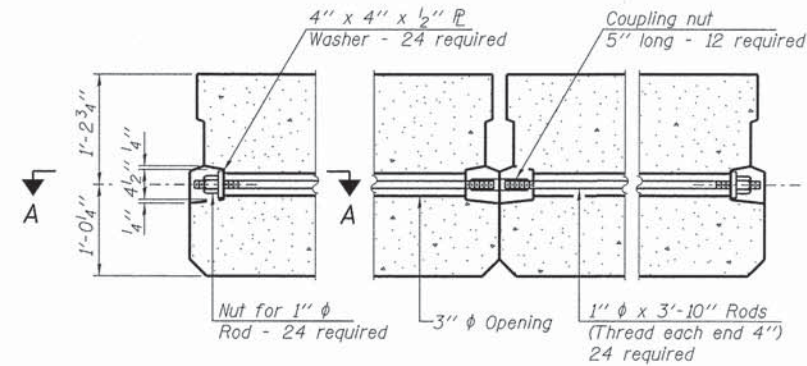
FABRIC BEARING PAD
(Exterior - 4 Req'd.)

FIXED

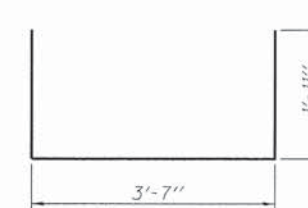
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



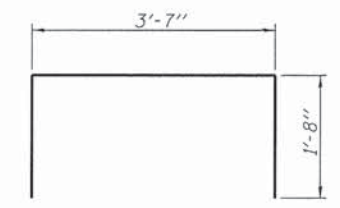
SECTION A-A



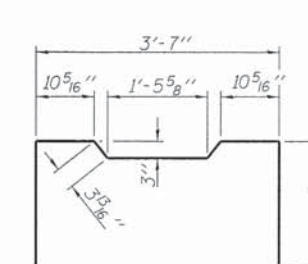
TYPICAL TRANSVERSE TIE ASSEMBLY



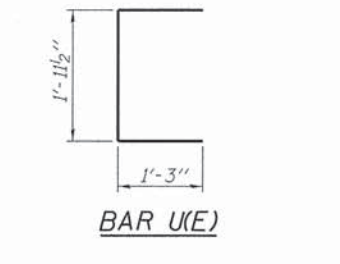
BAR S(E)



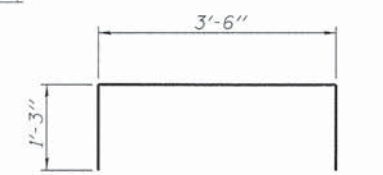
BAR S1(E)



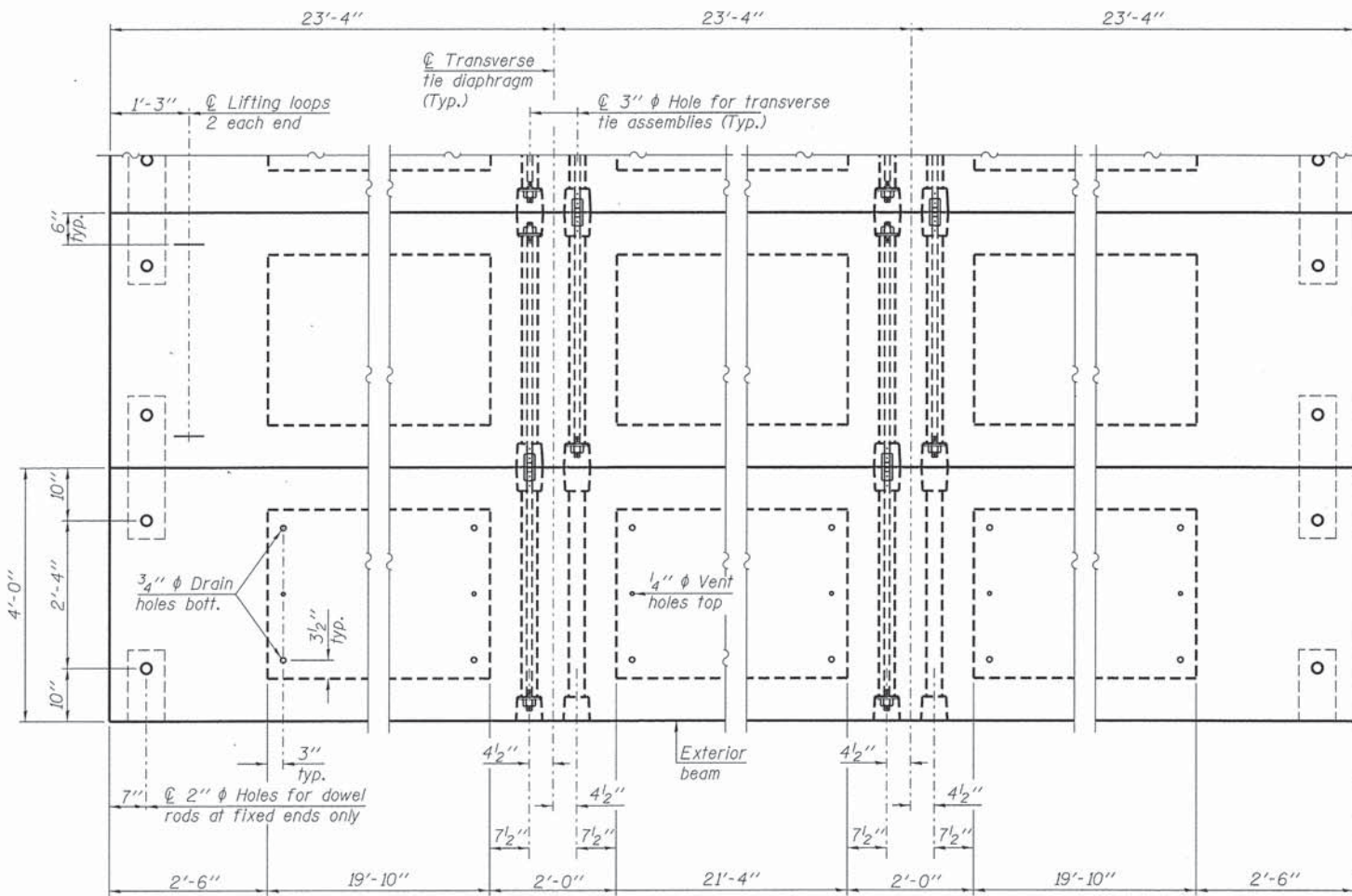
BAR S2(E)



BAR U(E)

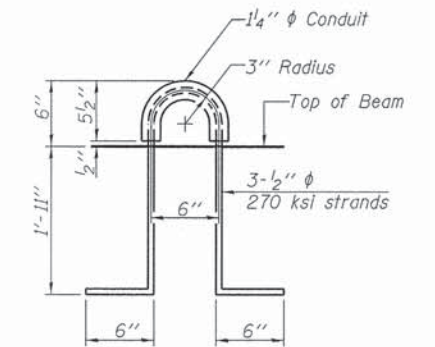


BAR U1(E)



PLAN VIEW

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



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 1021.07 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.
Reinforcement bars designated (E) shall be epoxy coated.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	1,960
---	---------	-------

PD-2748-OD 7-1-10

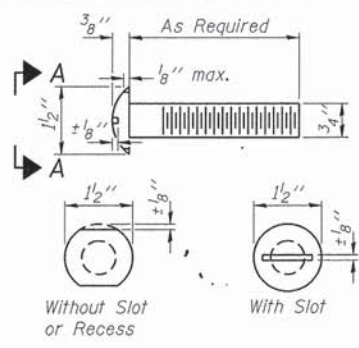
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2085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	DRAWN - R.D.H.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-000088	PLOT DATE = 1/6/2014	CHECKED - S.W.M.	REVISED -

STATE OF ILLINOIS
MOULTRIE COUNTY HIGHWAY DEPARTMENT

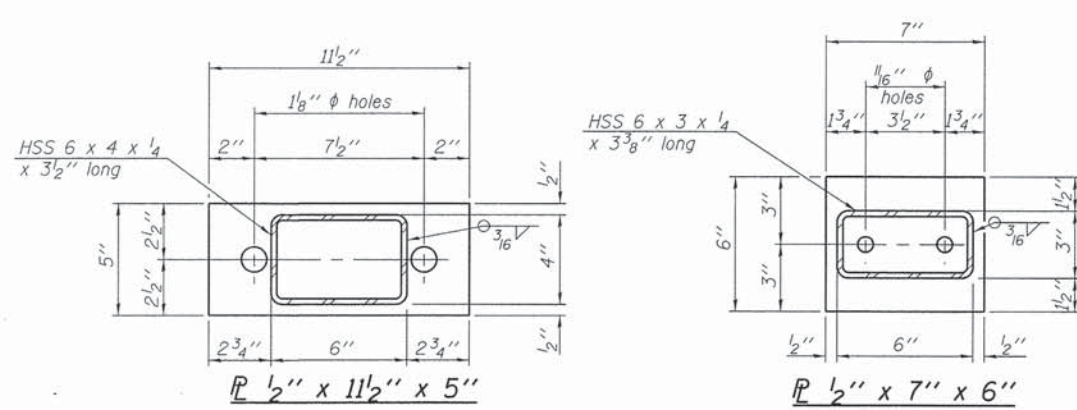
27" x 48" PPC DECK BEAM DETAILS
STRUCTURE NO. 070-4634

SHEET NO. 3 OF 8 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12	04-06130-00-BR	MOULTRIE	34	29
MARROWBONE ROAD DISTRICT		CONTRACT NO. 95729		
[ILLINOIS] FED. AID PROJECT BROS-01391063				

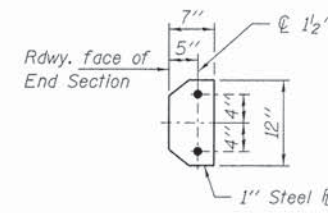


VIEW A-A
ROUND HEAD BOLT

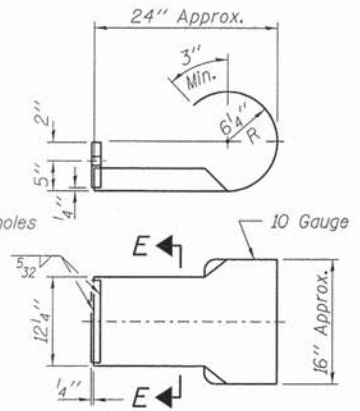


R 1/2" x 11 1/2" x 5"
R 1/2" x 7" x 6"

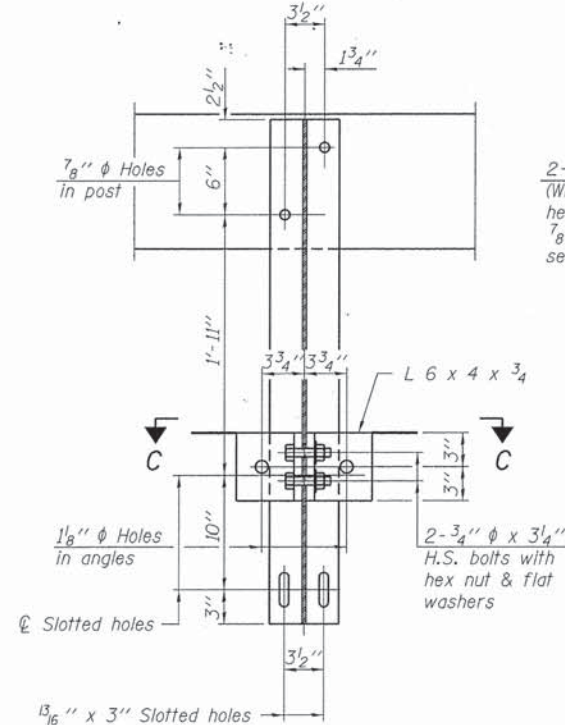
Note: Cost of curled end sections shall be included with the Steel Railing. (2 Required)



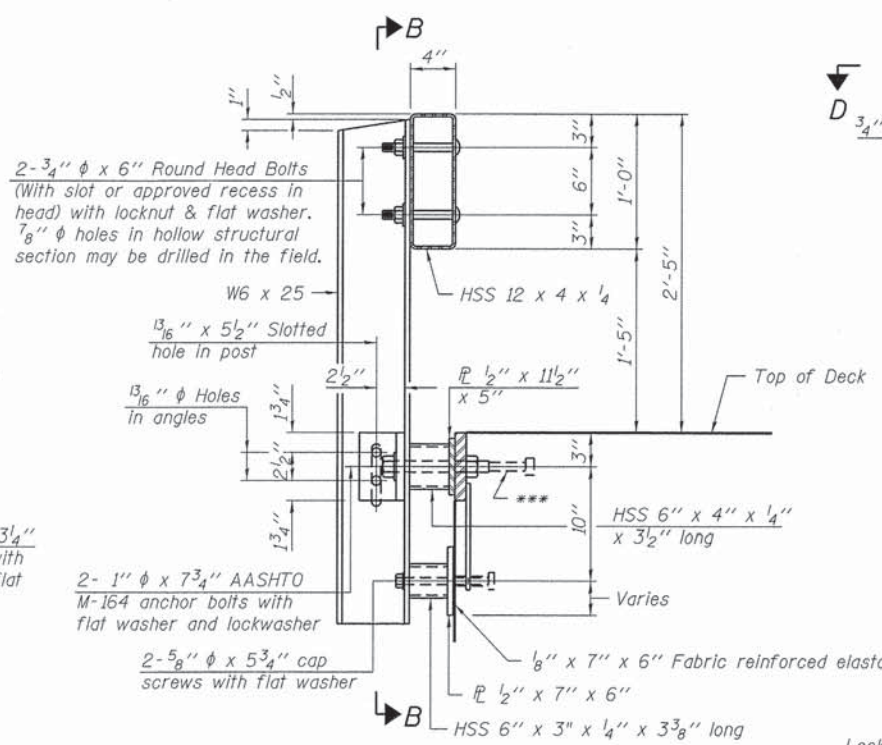
SECTION E-E



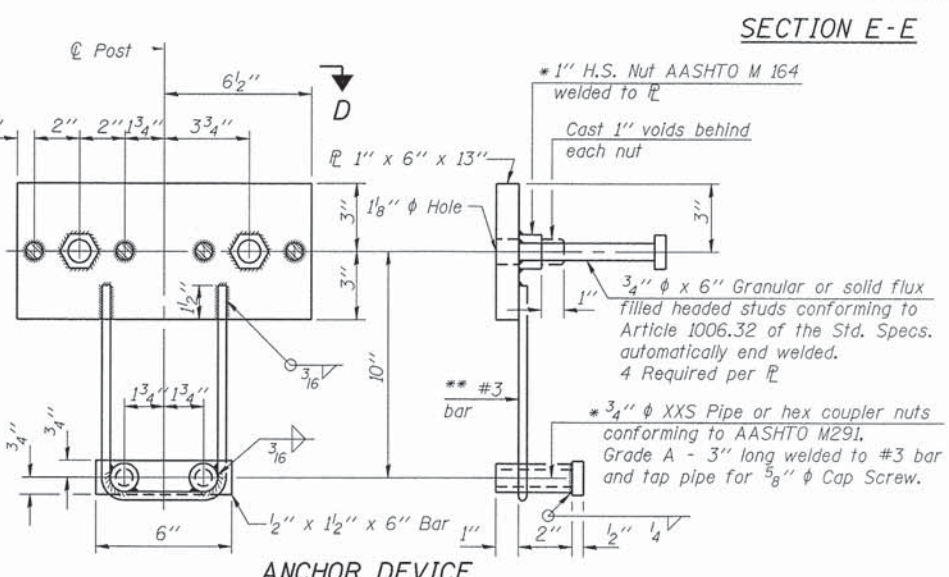
CURLED END SECTION DETAILS



SECTION B-B

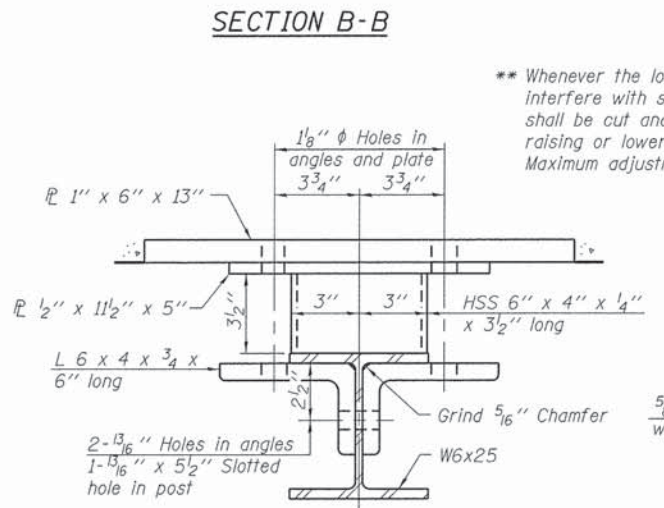


SECTION AT RAILING POST

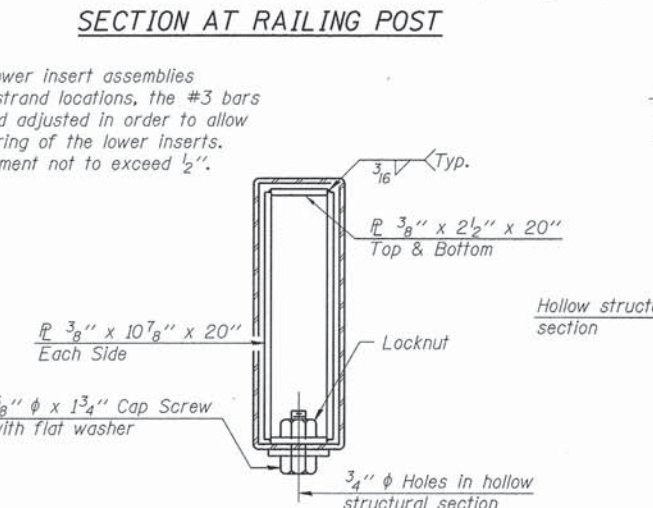


ANCHOR DEVICE

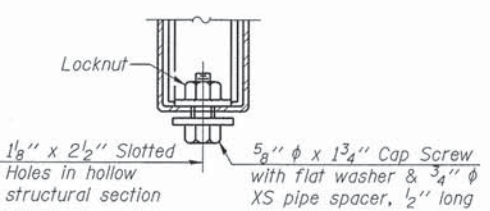
Notes:
All field drilled holes shall be coated with an approved zinc rich paint before erection. For multi-span bridges, sufficient 1/4" x 6" x 1'-2" galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type S-1. All steel rail elements shall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



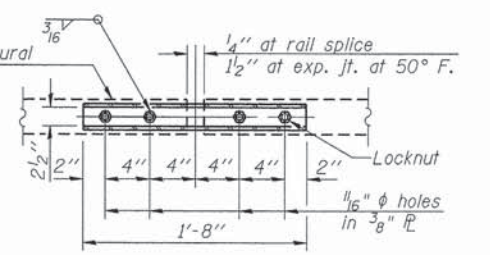
SECTION C-C



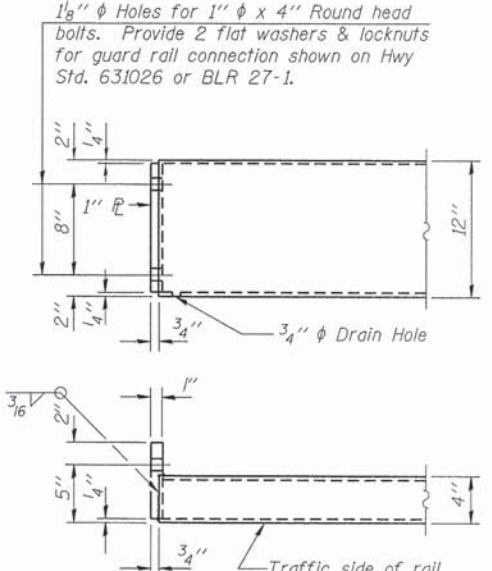
SECTIONS AT RAIL SPLICE



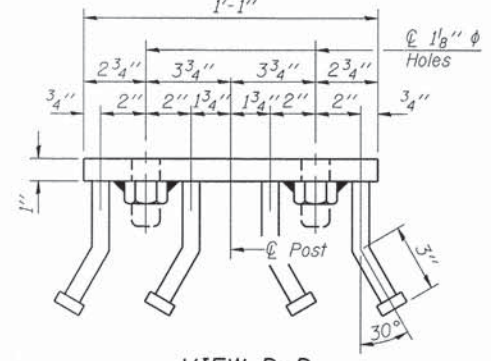
RAIL SPLICE CONNECTION AT EXPANSION JT.



PLAN-BOTT. SPLICE R TYPICAL



END OF RAIL DETAILS



VIEW D-D

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	138

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

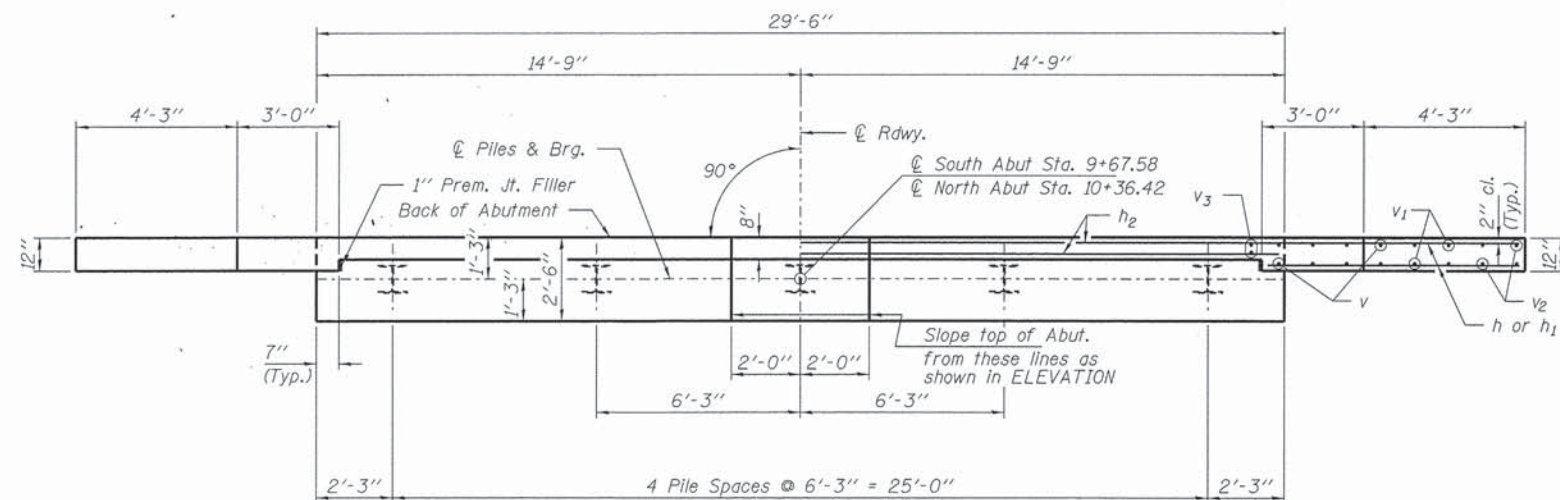
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HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -
308 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62761	PLOT SCALE =	DRAWN - R.D.H.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM L3 / P3 / SE CORP. 184-002859	PLOT DATE = 1/6/2014	CHECKED - S.W.M.	REVISED -

STATE OF ILLINOIS
MOULTRIE COUNTY HIGHWAY DEPARTMENT

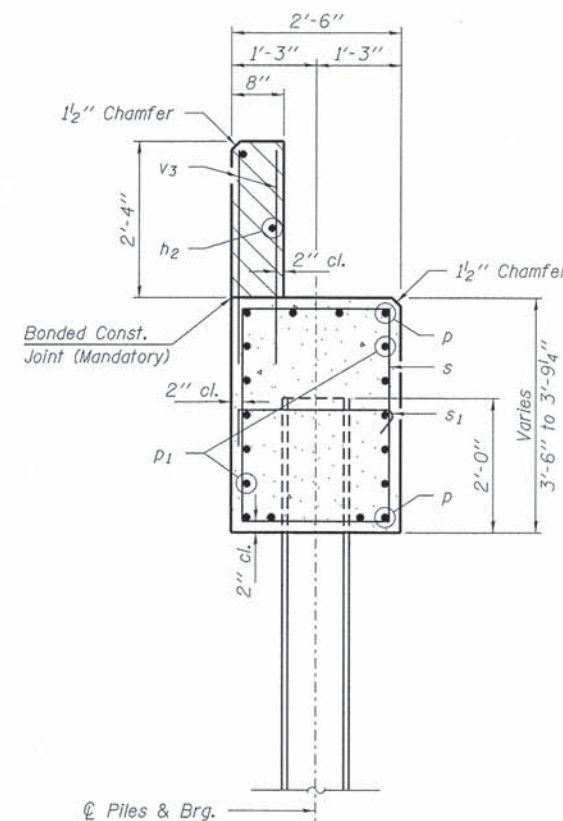
STEEL RAILING, TYPE S-1
STRUCTURE NO. 070-4634

SHEET NO. 5 OF 8 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
12	04-06130-00-BR	MOULTRIE	34	31
MARROWBONE ROAD DISTRICT			CONTRACT NO. 95729	
[ILLINOIS] FED. AID PROJECT BR05-013910631				

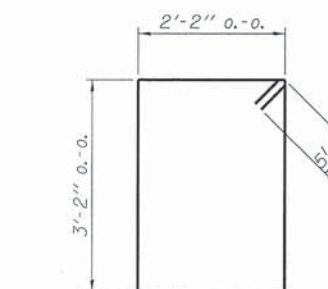


PLAN

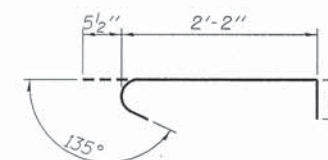


SECTION A-A

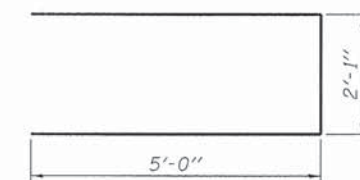
Hatched area to be poured after beams are in place.



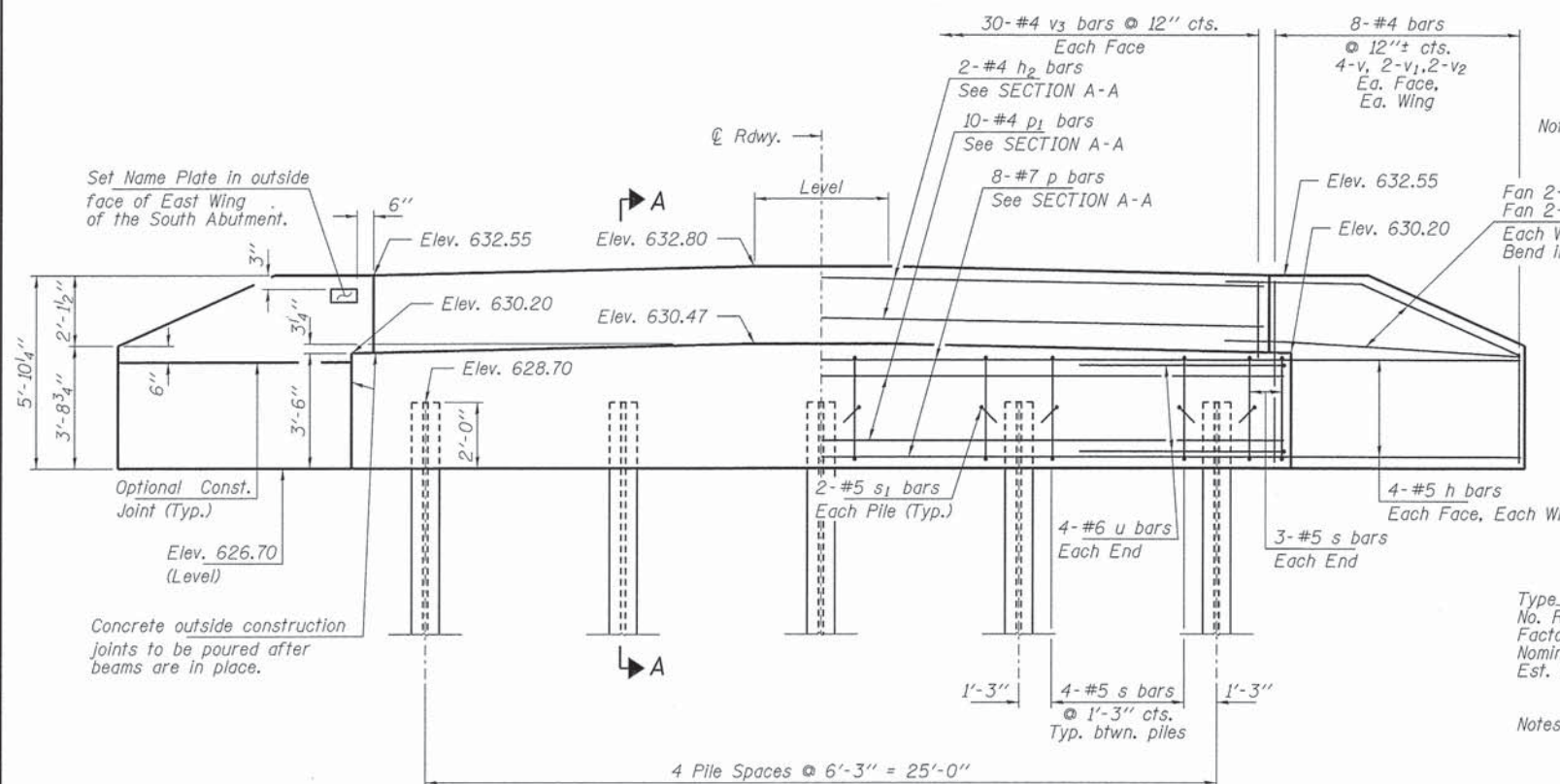
BAR s



BAR s1



BAR u



ELEVATION

PILE DATA

Type ----- Steel HP10x42
 No. Req'd. (2 Abuts.) ----- *10
 Factored Resistance Available (Rf) ----- 158 Kips/Pile
 Nominal Required Bearing (Rn) ----- 287 Kips/Pile
 Est. Length ----- 35 Ft/Pile

Notes: *Includes one test pile to be driven in permanent location at the South 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	#5	8'-6"	—
h1	8	#4	7'-0"	—
h2	4	#4	29'-2"	—
p	16	#7	29'-2"	—
p1	20	#4	29'-2"	—
s	44	#5	11'-7"	□
s1	20	#5	3'-2"	U
u	16	#6	12'-1"	U
v	32	#4	5'-6"	—
v1	16	#4	4'-6"	—
v2	16	#4	3'-6"	—
v3	120	#4	3'-2"	—
Concrete Structures			Cu. Yd.	28.4
Reinforcement Bars			Pound	3,160
Steel Piles HP10x42			Foot	315
Test Pile HP10x42			Each	1
Name Plates			Each	1

FILE NAME = 120207-shr-bridge.dgn
 USER NAME =
 HAMPTON, LENZINI AND RENWICK, INC.
 2008 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LICENSE NO. 021-000000

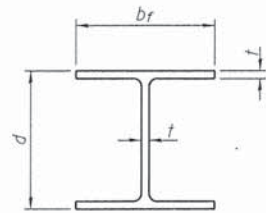
DESIGNED - L.A.P.
 CHECKED - S.W.M.
 DRAWN - R.D.H.
 CHECKED - S.W.M.

REVISD -
 REVISD -
 REVISD -
 REVISD -

STATE OF ILLINOIS
 MOULTRIE COUNTY HIGHWAY DEPARTMENT

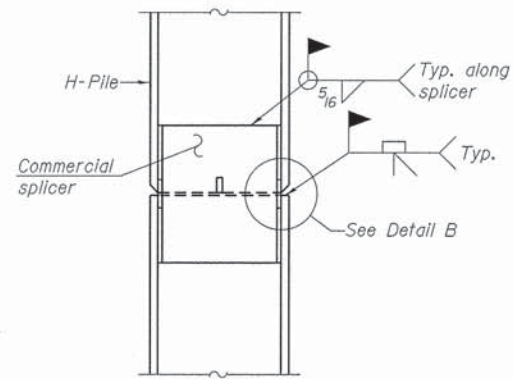
ABUTMENTS
 STRUCTURE NO. 070-4634
 SHEET NO. 6 OF 8 SHEETS

T.R. SECTION COUNTY TOTAL SHEETS SHEET NO.
 12 04-06130-00-BR MOULTRIE 34 32
 MARROWBONE ROAD DISTRICT CONTRACT NO. 95729
 [ILLINOIS] FED. AID PROJECT BROS-0139(063)

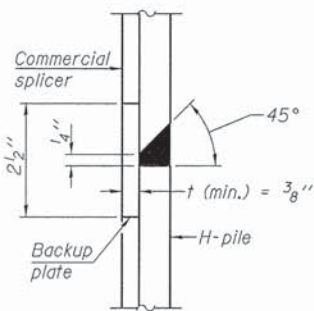


STEEL PILE TABLE

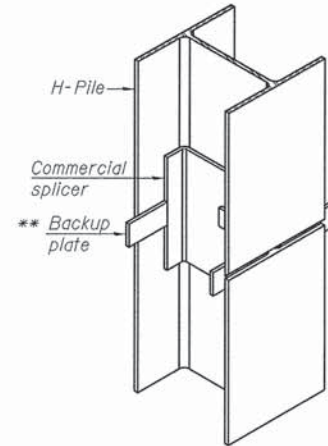
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"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

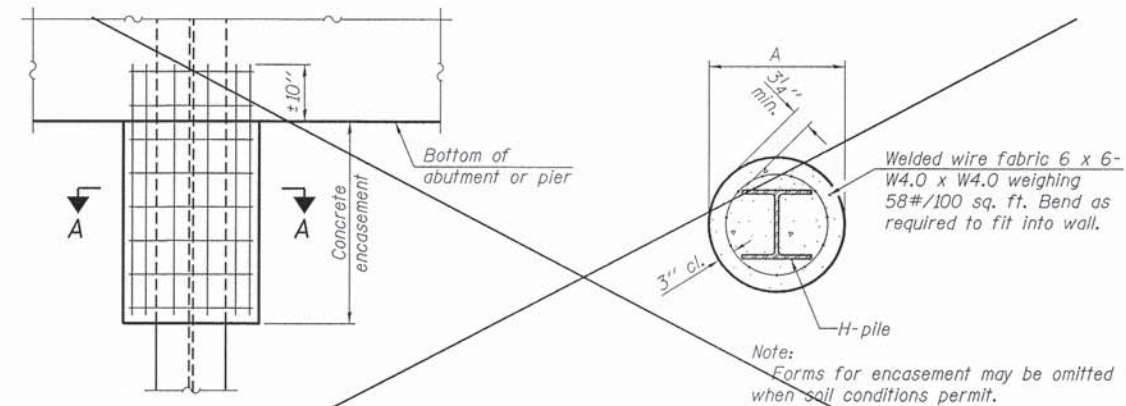


DETAIL "B"



ISOMETRIC VIEW

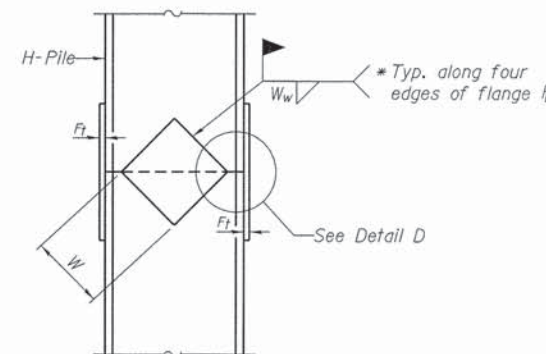
WELDED COMMERCIAL SPLICE



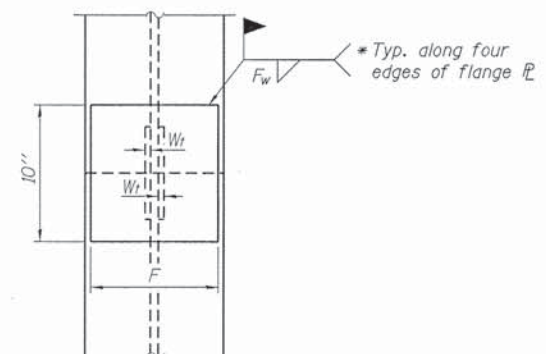
ELEVATION

SECTION A-A

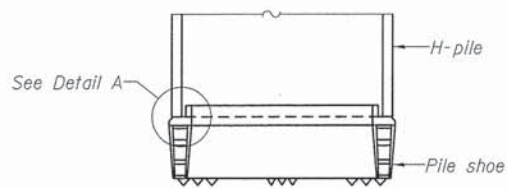
PILE ENCASEMENT
(Not Required)



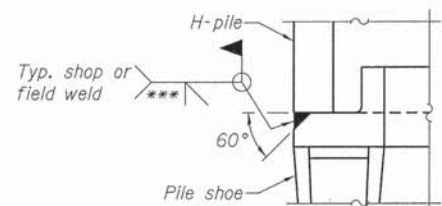
ELEVATION



END VIEW

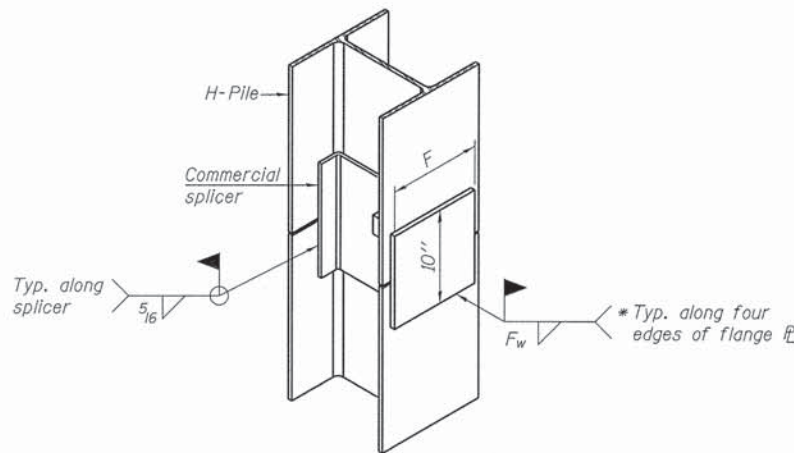


ELEVATION



DETAIL A

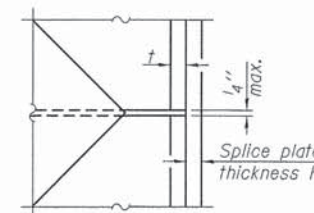
H-PILE SHOE ATTACHMENT



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.).



DETAIL D

WELDED PLATE FIELD SPLICE

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

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

F-HP

7-1-10

FILE NAME = 120297-sht-bridge.dgn	USER NAME =	DESIGNED - L.A.P.	REVISED -	STATE OF ILLINOIS MOULTRIE COUNTY HIGHWAY DEPARTMENT	HP PILE DETAILS STRUCTURE NO. 070-4634	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 306 STEVENSON DRIVE, SUITE 301 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - S.W.M.	REVISED -			12	04-06130-00-BR	MOULTRIE	34	33
ILLINOIS PROFESSIONAL DESIGN FIRM L.S./P.E./S.E. CORP. 184-000988	PLOT DATE = 1/6/2014	DRAWN - R.D.H.	REVISED -			MARBONE ROAD DISTRICT		CONTRACT NO. 95729		
		CHECKED - S.W.M.	REVISED -			SHEET NO. 7 OF 8 SHEETS		[ILLINOIS] FED. AID PROJECT BROS-01391063		



Illinois Department of Transportation
Division of Highways
Reynolds Drilling Corporation

SOIL BORING LOG

Page 1 of 1

Date 7/26/13

ROUTE 13-494.001 DESCRIPTION Replacement Bridge Boring LOGGED BY HW
SECTION 04-06130-00-BR LOCATION 300E, 1600N, SEC. 21, TWP. 14N, RNG. 4E, 3rd PM
COUNTY Moultrie Co., IL DRILLING METHOD Hollow Stem Auger HAMMER TYPE Hydraulic

STRUCT. NO.	DEPT	BL	UC	MO	Surface Water Elev.	DEPT	BL	UC	MO
Station	H	(ft)	(%)	(%)	ft	H	(ft)	(%)	(%)
04-06130-BR Marrowbone									
BORING NO. B-1 Station 14+00 (10+40) Offset 4.00ft Left Ground Surface Elev. 631.5 ft									
Oil and Chips									
A-4 SILTY CLAY LOAM									
A-6 SILTY CLAY LOAM dark brown, moist, stiff	4					120			
629.0	5	3.5	15.7		609.0		4.5	6.2	
	6	P							
A-4 LOAM dark gray, some fine sand	2					150			
626.5	3	1.0	20.5		606.5		4.5	4.8	
	5								
	6								
624.0									
A-4 SILTY CLAY LOAM gray, till, moist little to some sand	2								
621.5	2	1.8	23.0						
	4	P							
	2								
619.0	3	1.8	21.0						
	4	P							
	2								
616.5	3	1.8	24.5						
	7	P							
	44								
614.0	28	4.5	6.8						
	30	P							
A-4 LOAM gray, moist, hard, till	120								
611.5		4.5	5.9						
		P							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

RRS from 137 (Rev. 8-98)

BORING 1



Illinois Department of Transportation
Division of Highways
Reynolds Drilling Corporation

SOIL BORING LOG

Page 1 of 1

Date 7/26/13

ROUTE 13-494.001 DESCRIPTION Replacement Bridge Boring LOGGED BY HW
SECTION 04-06130-00-BR LOCATION 300E, 1600N, SEC. 21, TWP. 14N, RNG. 4E, 3rd PM
COUNTY Moultrie Co., IL DRILLING METHOD Hollow Stem Auger HAMMER TYPE Hydraulic

STRUCT. NO.	DEPT	BL	UC	MO	Surface Water Elev.	DEPT	BL	UC	MO
Station	H	(ft)	(%)	(%)	ft	H	(ft)	(%)	(%)
04-06130-00-BR Marrowbone									
BORING NO. B-2 Station 12+98 (9+60) Offset 4.00ft Right Ground Surface Elev. 631.5 ft									
Oil and Chips									
A-6 SILTY CLAY LOAM dark gray to black, moist hard	4								
629.0	5	4.5	4.9						
	7	P							
	4								
626.5	4	4.5	9.9						
	5	P							
	2								
624.0	3	1.5	20.2						
	5	P							
A-4 SILTY LOAM gray, moist, hard some sand, till									
621.5	2								
	3	2.0	22.7						
	4	P							
	1								
A-4 LOAM dark gray, moist stiff, some sand	1	0.3	19.8						
619.0	2	P							
	2								
616.5	3	1.8	15.3						
	4	P							
	8								
A-6 SILTY CLAY LOAM gray, moist very stiff, little to some sand, till	8	2.5	11.2						
614.0	8	P							
	5								
611.5	6	3.5	22.9						
	6	P							

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

RRS from 137 (Rev. 8-98)

BORING 2

FILE NAME = 128297-sh1-bridge.dgn	USER NAME =	DESIGNED - L.A.P.	REVISED -	STATE OF ILLINOIS MOULTRIE COUNTY HIGHWAY DEPARTMENT	BORINGS STRUCTURE NO. 070-4634	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62763	PLOT SCALE =	CHECKED - S.W.M.	REVISED -			12	04-06130-00-BR	MOULTRIE	34	34
ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE CORP. 184 000999	PLOT DATE = 1/6/2014	DRAWN - R.D.H.	REVISED -			MARRROWBONE ROAD DISTRICT		CONTRACT NO. 95729		
		CHECKED - S.W.M.	REVISED -			SHEET NO. 8 OF 8 SHEETS		ILLINOIS FED. AID PROJECT BROS-0139063		