

03-04-2016 LETTING ITEM 126

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

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

**PROJECT BRS-1477(104)  
SECTION 13-00029-03-BR  
McLEAN COUNTY  
C.H. 40 / F.A.S. 1477  
PROPOSED STRUCTURE NO. 057-5734  
ARTEMAN BRIDGE  
JOB NO. C-95-307-15**

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
C.H. 40	13-00029-03-BR	McLEAN	36	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 91521	

**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	SUMMARY OF QUANTITIES AND GENERAL NOTES
3.	TYPICAL CROSS SECTIONS
4.	SCHEDULE OF QUANTITIES
5.-6.	PLAN & PROFILE
7.	GUARDRAIL AND SHOULDER LAYOUT SHEET
8.-18.	BRIDGE PLANS
19.	BORINGS
20.-36.	STATION CROSS SECTIONS

**HIGHWAY STANDARDS:**

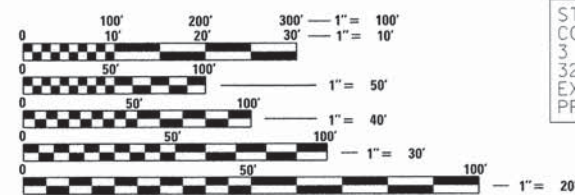
000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-03	NAME PLATE FOR BRIDGES
630301-06	SHOULDER WIDENING FOR TYPE 1, (SPECIAL) GUARDRAIL TERMINALS
631032-08	TRAFFIC BARRIER TERMINAL, TYPE 6A
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
635011-02	REFLECTOR MARKER AND MOUNTING DETAILS
701901-04	TRAFFIC CONTROL DEVICES
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES; FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

**UTILITIES**

NONE

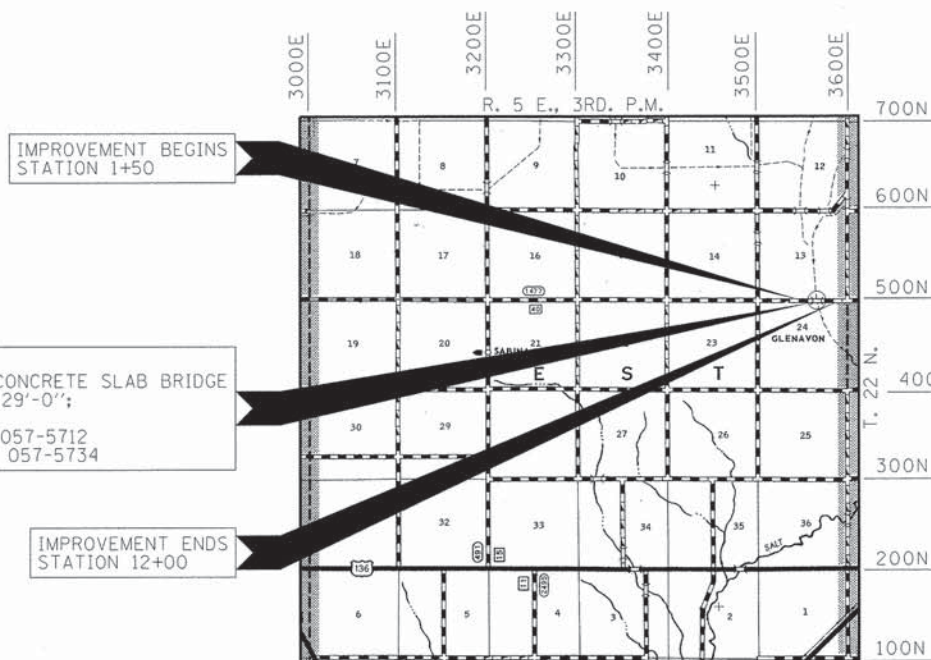


FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR (RURAL)  
DESIGN SPEED: 40 MPH  
DESIGN TRAFFIC: 365 ADT (2035)



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

STA. 9+95  
CONTINUOUS REINFORCED CONCRETE SLAB BRIDGE  
3 SPANS: 29'-0", 36'-0", 29'-0";  
32'-0" RDWY., SKEW = 0°;  
EXISTING STRUCTURE NO. 057-5712  
PROPOSED STRUCTURE NO. 057-5734



**LOCATION MAP**

APPROXIMATE SCALE: 0 1 MILE  
NET LENGTH OF SECTION = 1,050 FEET = 0.199 MILES



**ILLINOIS DEPARTMENT OF TRANSPORTATION**

APPROVED Dec 15 2015

*[Signature]*  
COUNTY ENGINEER

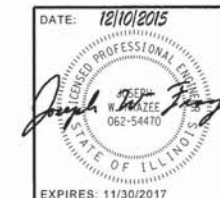
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PASSED DEC 28 2015

*[Signature]*  
DISTRICT FIVE ENGINEER OF LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review DEC 28 2015

*[Signature]*  
DEPUTY DIRECTOR OF HIGHWAYS  
REGION THREE 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

EXPIRES: 11/30/2017

PROJECT NUMBER: 14.0199.130 DATE: 12/10/15

CONTRACT NO. 91521

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	UNIT	CONSTRUCTION TYPE CODE 0011 QUANTITY
A 20200100	EARTH EXCAVATION	CU YD	665
20300100	CHANNEL EXCAVATION	CU YD	340
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	673
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	310
28000305	TEMPORARY DITCH CHECKS	FOOT	58
28000400	PERIMETER EROSION BARRIER	FOOT	340
28000500	INLET AND PIPE PROTECTION	EACH	3
A 35101400	AGGREGATE BASE COURSE, TYPE B	TON	211
A 40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	1,528
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	84
40603310	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50	TON	49
42001430	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	SQ YD	42
A 48101200	AGGREGATE SHOULDERS, TYPE B	TON	459
A 50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50201101	COFFERDAM (TYPE 1) (LOCATION - 1)	EACH	1
50201102	COFFERDAM (TYPE 1) (LOCATION - 2)	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	64.2
50300255	CONCRETE SUPERSTRUCTURE	CU YD	241.8
50300260	BRIDGE DECK GROOVING	SQ YD	517
50300280	CONCRETE ENCASEMENT	CU YD	17.7
50300300	PROTECTIVE COAT	SQ YD	589
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	96,210
* 50901050	STEEL RAILING, TYPE SM	FOOT	250
51201400	FURNISHING STEEL PILES HP10X42	FOOT	1,065
51202305	DRIVING PILES	FOOT	1,065
51203400	TEST PILE STEEL HP10X42	EACH	2
51500100	NAME PLATES	EACH	1
A 542D0229	PIPE CULVERTS, CLASS D, TYPE 1 24"	FOOT	90
A 542D0241	PIPE CULVERTS, CLASS D, TYPE 1 36"	FOOT	156
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	42

^ SEE SPECIAL PROVISIONS

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	UNIT	CONSTRUCTION TYPE CODE 0011 QUANTITY
60107300	PIPE DRAINS, BITUMINOUS COATED CORRUGATED STEEL 36"	FOOT	20
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	4
A 67100100	MOBILIZATION	L SUM	1
* A 78200410	GUARDRAIL MARKERS, TYPE A	EACH	8
* A 78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
A X2810208	STONE RIPRAP, CLASS A4 (SPECIAL)	TON	710
A X5860110	GRANULAR BACKFILL FOR STRUCTURES	CU YD	80
* A X6310188	TRAFFIC BARRIER TERMINAL, TYPE 6A (MODIFIED)	EACH	4
A X7011830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	EACH	1
A Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	121
A XX007860	AGGREGATE BASE COURSE (SPECIAL)	SQ YD	709

^ SEE SPECIAL PROVISIONS

\* SPECIALTY ITEMS

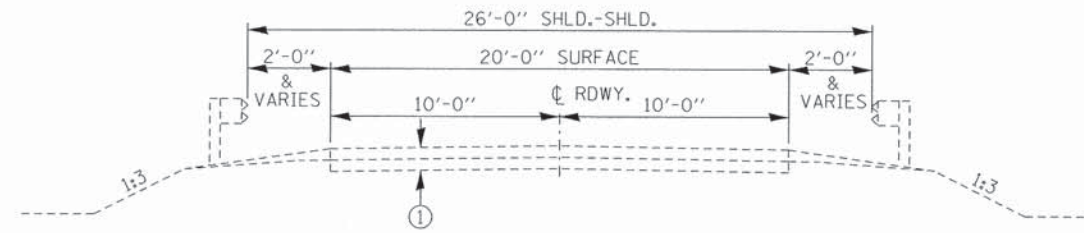
HOT MIX ASPHALT MIXTURE REQUIREMENTS		
LOCATIONS(S)	CH 40 / FAS 1477	CH 40 / FAS 1477
MIXTURE USE(S):	HMA SURF. CSE.	HMA BIND. CSE. & FLEX CONN.
PG:	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4% @ Ndes 50	4% @ Ndes 50
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL 9.5	IL 19.0
FRICTION AGGREGATE:	MIXTURE C	NONE
MIXTURE WEIGHT:	112 LBS./SQ. YD./INCH	112 LBS./SQ. YD./INCH
QUALITY CONTROL PROGRAM:	QC/QA	QC/QA

#### GENERAL NOTES

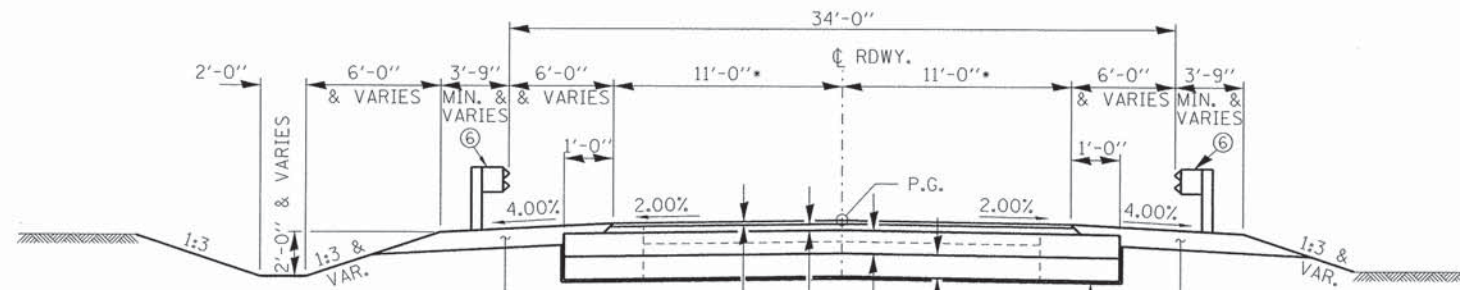
- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2012," THESE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- ALL CLEARING, GRUBBING, AND REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE INCLUDED IN EARTH EXCAVATION. ALL 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 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 BASE COURSE	2.05 TON / CU YD
AGGREGATE SURFACE COURSE	2.0 TON / CU YD
STONE RIPRAP, CLASS A4	1.75 TON / CU YD
HOX-MIX ASPHALT	112 LB / SQ YD / IN
BITUMINOUS MATERIALS	
ON PAVEMENT	0.05 LB./SQ.FT.
INTERMEDIATE LIFTS (FOG COAT)	0.025 LB./SQ.FT.
ON AGGREGATE SURFACE	0.25 LB./SQ.FT.
- THE TOP 4 INCHES OF THE EMBANKMENT AREAS SHALL BE VEGETATIVE SUSTAINING SOIL SUBJECT TO THE APPROVAL OF THE ENGINEER. THE COST OF SHAPING THE SLOPES AND PROVIDING VEGETATIVE SUSTAINING SOIL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- PERMANENT SEEDING AT THE PROJECT SITE IS TO BE COMPLETED BY THE McLEAN COUNTY HIGHWAY DEPARTMENT.
- GUARDRAIL REMOVAL AT THE PROJECT SITE IS TO BE COMPLETED BY THE McLEAN COUNTY HIGHWAY DEPARTMENT.
- ALL WASTE MATERIAL FROM EXCAVATIONS SHALL BE DISPOSED OF BY THE CONTRACTOR. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

FILE NAME = 140199-shr-notes.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	<b>STATE OF ILLINOIS</b> <b>McLEAN COUNTY HIGHWAY DEPARTMENT</b>				<b>SUMMARY OF QUANTITIES AND GENERAL NOTES</b> <b>C.H. 40 / ROCK ROAD</b>				F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
 HAMPTON, LENZINI AND RENWICK, INC. 308 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LICENSE NO. 184-008899	PLOT SCALE =	DRAWN - T.W.K.	REVISED -					SCALE:	SHEET NO.	OF	SHEETS	STA.	TO	STA.	1477	13-00029-03-BR	McLEAN
	PLOT DATE = 12/14/2015	CHECKED - S.W.M.	REVISED -									ARTEMAN BRIDGE		CONTRACT NO. 91521		ILLINOIS FED. AID PROJECT	
		DATE - 12/09/15	REVISED -														



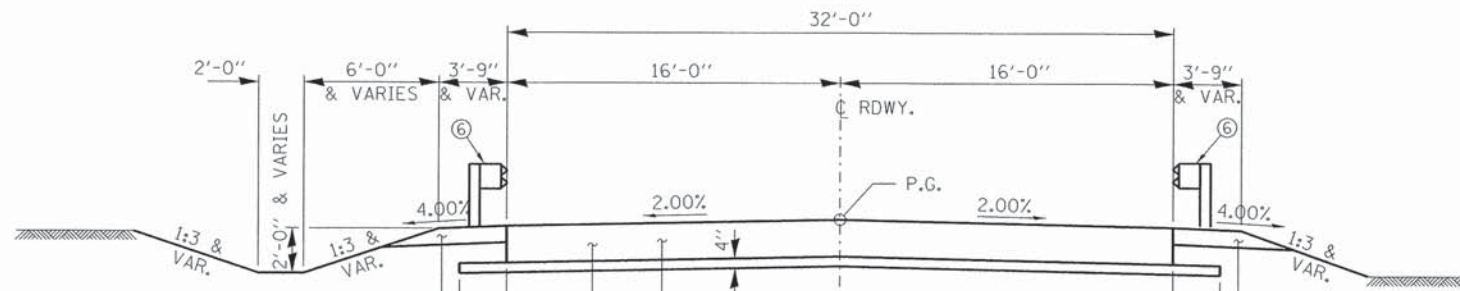
**EXISTING TYPICAL CROSS SECTION**  
STA. 1+50 TO STA. 12+00



SUGGESTED CUT SECTION  
CONSTRUCT AS SHOWN IN  
STATION CROSS SECTIONS

**PROPOSED TYPICAL CROSS SECTION**  
STA. 1+50.00 TO STA. 8+00 - SPECIAL DITCH ONLY  
STA. 8+00 TO STA. 9+11.50\*  
STA. 10+78.50 TO STA. 12+00\*

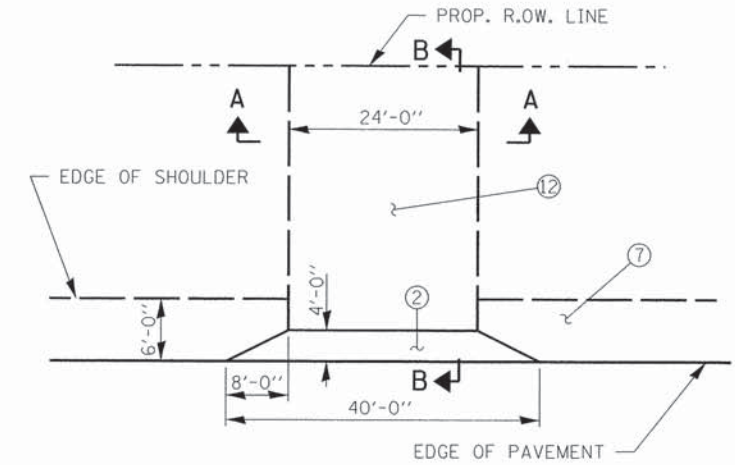
\*- TRANSITION PAVEMENT FROM EXISTING  
WIDTH OF 20' TO PROPOSED WIDTH OF 22'.  
FROM STA. 8+00 TO STA. 8+50 AND  
FROM STA. 11+50 TO STA. 12+00



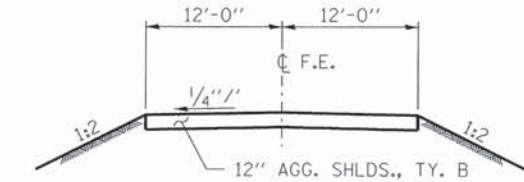
SUGGESTED CUT SECTION  
CONSTRUCT AS SHOWN IN  
STATION CROSS SECTIONS

**PROPOSED TYPICAL CROSS SECTION**  
STA. 9+11.50 TO STA. 9+17.50 (FLEXIBLE CONNECTOR)  
STA. 9+17.50 TO STA. 9+47.50 (APPROACH SLAB)  
STA. 10+42.50 TO STA. 10+72.50 (APPROACH SLAB)  
STA. 10+72.50 TO STA. 10+78.50 (FLEXIBLE CONNECTOR)

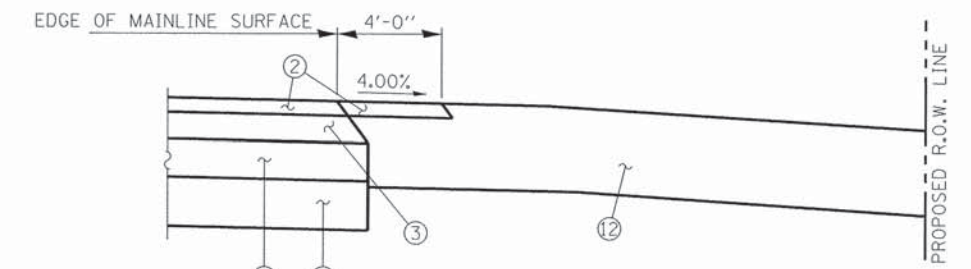
NOTES:  
CURBS ARE NOT REQUIRED ON THE BRIDGE APPROACH PAVEMENT  
EXISTING PAVEMENT SHALL BE SAWCUT AT STA. 8+00 AND STA. 12+00.  
COST INCLUDED IN EARTH EXCAVATION.



**FIELD ENTRANCE DETAIL**



**SECTION A-A**



**SECTION B-B**

**LEGEND**

- ① EXISTING BITUMINOUS TREATED AGGREGATE SURFACE ON AGGREGATE BASE.
- ② HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (1 1/2" THICKNESS)
- ③ HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 (2 1/2" THICKNESS)
- ④ AGGREGATE BASE COURSE, TY B, (6" THICKNESS)
- ⑤ AGGREGATE BASE COURSE (SPECIAL) (8" THICKNESS - RR1)
- ⑥ STEEL PLATE BEAM GUARD RAIL. SEE SCHEDULE OF QUANTITIES FOR STATIONING
- ⑦ AGGREGATE SHOULDERS, TYPE B 6"
- ⑧ BRIDGE APPROACH PAVEMENT (COST INCLUDED WITH CONCRETE SUPERSTRUCTURES)
- ⑨ SUB-BASE GRANULAR MATERIAL, TY B, 4" (COST INCLUDED WITH CONCRETE SUPERSTRUCTURES)
- ⑩ GEOTECHNICAL FABRIC FOR GROUND STABILIZATION
- ⑪ BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)
- ⑫ AGGREGATE SHOULDERS, TYPE B 12"

FILE NAME = 148199-sht-typsections.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	<b>STATE OF ILLINOIS</b> <b>McLEAN COUNTY HIGHWAY DEPARTMENT</b>	<b>TYPICAL CROSS SECTIONS</b> <b>C.H. 40 / ROCK ROAD</b>			F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	DRAWN - T.W.K.	REVISED -		1477	13-00029-03-BR	McLEAN	36	3			
ILLINOIS PROFESSIONAL DESIGN FIRM L.S./P.E./S.E. CORP. 184.000903	PLOT DATE = 12/14/2015	CHECKED - S.W.M.	REVISED -		ARTEMAN BRIDGE			CONTRACT NO. 91521				
		DATE - 12/09/15	REVISED -		SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		

ROADWAY SCHEDULE								
LOCATION	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	AGGREGATE BASE COURSE TYPE B (6")	BITUMINOUS MATERIALS PRIME COAT	HOT MIX ASPHALT BINDER COURSE IL-19.0, N50 (2.5")	HOT MIX ASPHALT SURFACE CSE. MIX "C", N50 (1.5")	BRIDGE APPROACH PAVEMENT CONNECTOR (FLEXIBLE)	AGGREGATE SHOULDERS TYPE B	AGGREGATE BASE COURSE (SPECIAL) (8")
	21001000	35101400	40600275	40603080	40603310	42001430	48101200	XX007860
<b>CH 40 / FAS 1477 / ROCK ROAD</b>	SQ YD	TON	POUND	TON	TON	SQ YD	TON	SQ YD
STA. 8+00.00 TO STA. 9+46.50	322	102	731	41	23	21	118	338
STA. 10+43.50 TO STA. 12+00	351	109	797	43	25	21	116	371
ENTRANCE RT. STA. 8+20					1		65	
ENTRANCE RT. STA. 11+80							75	
ENTRANCE LT. STA. 11+80							85	
<b>TOTAL</b>	<b>673</b>	<b>211</b>	<b>1528</b>	<b>84</b>	<b>49</b>	<b>42</b>	<b>459</b>	<b>709</b>

TEMPORARY EROSION CONTROL SEEDING - 28000250	
LOCATION	POUND
LT. STA. 8+00 TO STA. 9+67	51
RT. STA. 1+50 TO STA. 9+67	179
LT. STA. 10+67 TO STA. 12+00	40
RT. STA. 10+67 TO STA. 12+00	40
<b>TOTAL</b>	<b>310</b>

TEMPORARY DITCH CHECKS - 28000305	
LOCATION	FOOT
RT. STA. 3+50	16
RT. STA. 5+75	14
RT. STA. 9+45	14
LT. STA. 10+45	14
<b>TOTAL</b>	<b>58</b>

PERIMETER EROSION BARRIER - 28000400	
LOCATION	FOOT
LT. STA. 8+00 TO STA. 9+50	150
RT. STA. 10+10 TO STA. 12+00	190
<b>TOTAL</b>	<b>340</b>

INLET AND PIPE PROTECTION - 28000500	
LOCATION	EACH
RT. STA. 7+87	1
RT. STA. 12+00	1
LT. STA. 12+00	1
<b>TOTAL</b>	<b>3</b>

EARTHWORK SCHEDULE							
LOCATION	EARTH EXCAVATION 20200100	CHANNEL EXCAVATION 20300100	SHRINKAGE FACTOR	PERCENT USED	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT REQUIRED	EARTHWORK BALANCE
<b>CH 40 / FAS 1477 / ROCK ROAD</b>	CU YD	CU YD			CU YD	CU YD	CU YD
STA. 1+50 TO STA. 9+46.50	438		25.00%	100.00%	329	167	162
STA. 9+46.50 TO STA. 10+43.50		340	25.00%	70.00%	179		179
STA. 10+43.50 TO STA. 12+00	225		25.00%	100.00%	169	384	-215
ENTRANCES						75	-75
<b>TOTAL</b>	<b>663</b>	<b>340</b>			<b>676</b>	<b>626</b>	<b>51</b>
USE	665	340					55

WASTE 55 CU YD

GUARDRAIL SCHEDULE				
LOCATION	TRAFFIC BARRIER TERMINAL TYPE 6A (MODIFIED) X6310188	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (FLARED) 63100169	GUARDRAIL MARKERS TYPE A 78200410	TERMINAL MARKER - DIRECT APPLIED 78201000
<b>CH 40 / FAS 1477 / ROCK ROAD</b>	EACH	EACH	EACH	EACH
LT STA. 8+00 TO STA. 9+46.50	1	1	2	1
LT STA. 10+43.50 TO STA. 12+00	1	1	2	1
RT STA. 9+46.50 TO STA. 10+43.50	1	1	2	1
RT STA. 10+43.50 TO STA. 12+00	1	1	2	1
<b>TOTAL</b>	<b>4</b>	<b>4</b>	<b>8</b>	<b>4</b>

FILE NAME = 140199-sht-schedule.dgn  
 HAMPSON, LENZINI AND RENWICK, INC.  
 3090 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62703  
 ILLINOIS PROFESSIONAL DESIGN FIRM  
 LS / PE / SE CORP. 184-000893

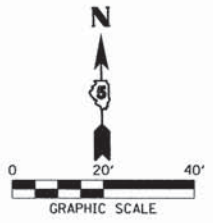
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 DRAWN - T.W.K.  
 CHECKED - S.W.M.  
 DATE - 12/17/15  
 PLOT SCALE =  
 PLOT DATE = 12/17/2015  
 REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 McLEAN COUNTY HIGHWAY DEPARTMENT

SCHEDULE OF QUANTITIES  
 C.H. 40 / ROCK ROAD  
 SCALE: SHEET NO. OF SHEETS STA. TO STA.

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1477	13-00029-03-BR	McLEAN	36	4
ARTEMAN BRIDGE		CONTRACT NO. 91521		
ILLINOIS FED. AID PROJECT				

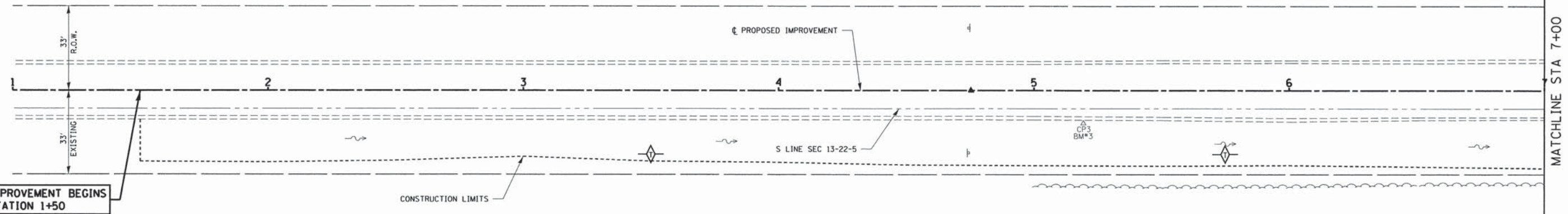
BRIAN D. & ANGELA A. ARTEMAN  
SE/4, SEC 13, T. 22 N., R. 5 E., 3RD P.M.



P.O.T. STA. 0+03.32  
(TO BE SET)  
N. 1343106.95  
E. 914421.29



P.O.T. STA. 4+75.33  
MAG NAIL (SET)  
N. 1343100.893  
E. 914893.255

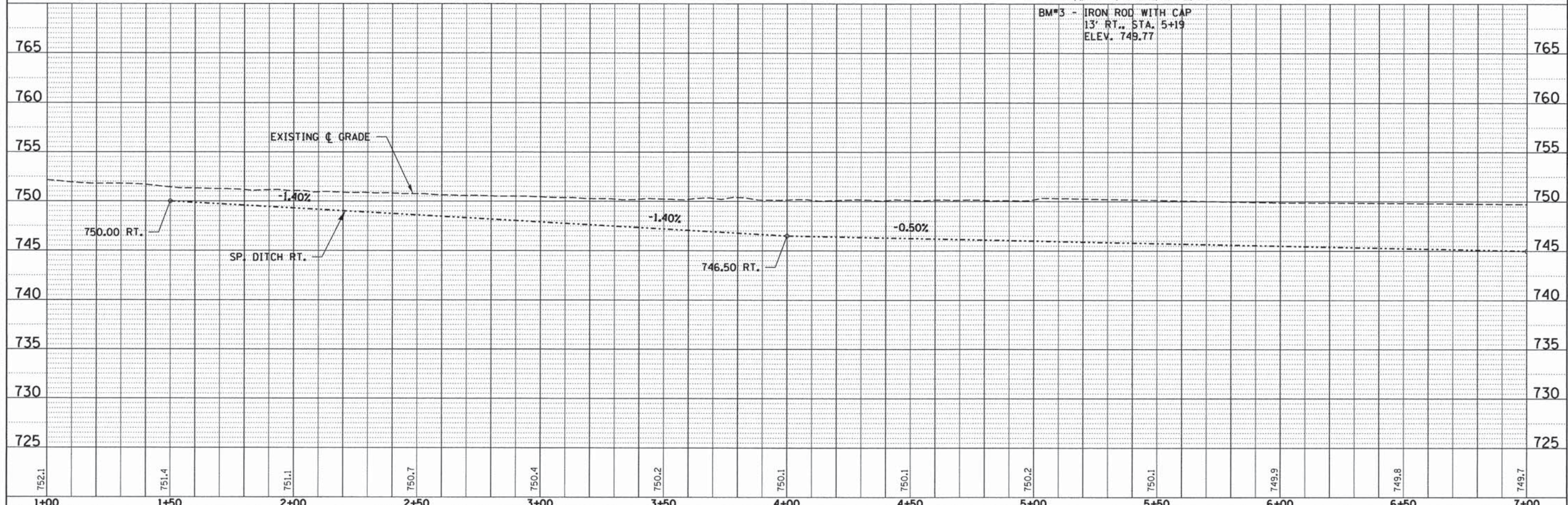


IMPROVEMENT BEGINS  
STATION 1+50

- LEGEND**
- INLET AND PIPE PROTECTION
  - TEMPORARY DITCH CHECK
  - PERIMETER EROSION BARRIER

HENDREN PROPERTIES, LLC  
NE/4, SEC 24, T. 22 N., R. 5 E., 3RD P.M.

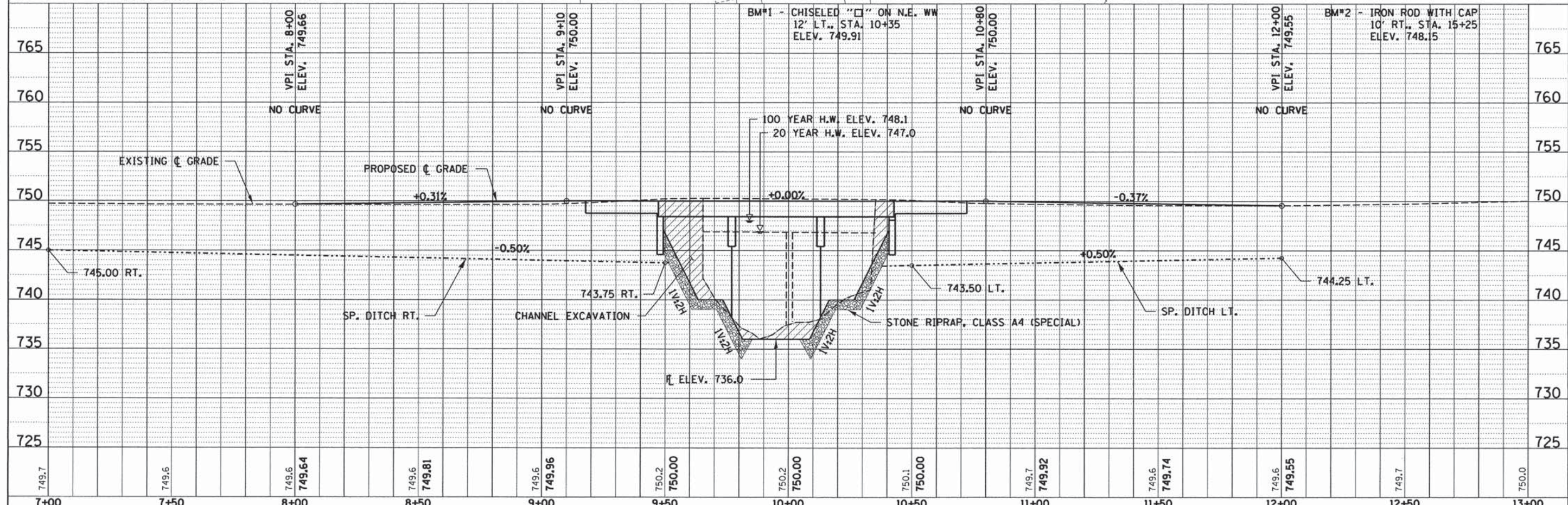
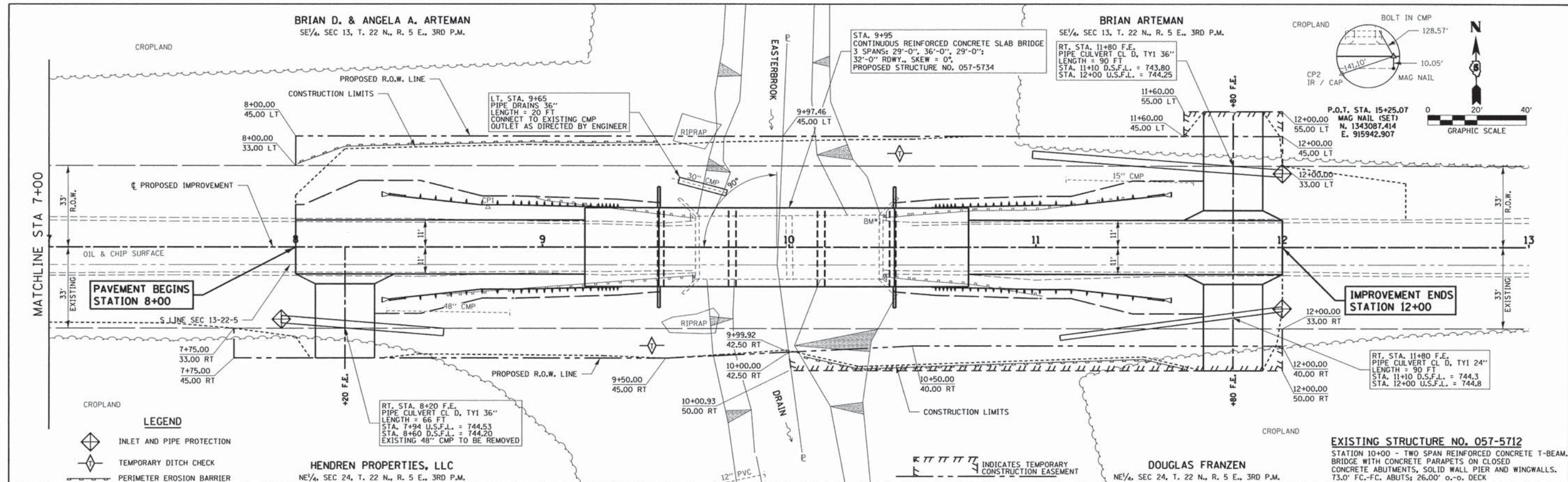
BM\*3 - IRON ROD WITH CAP  
13' RT., STA. 5+19  
ELEV. 749.77



FILE NAME = 148199-sht-p&p.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	<b>STATE OF ILLINOIS McLEAN COUNTY HIGHWAY DEPARTMENT</b>	<b>PLAN &amp; PROFILE C.H. 40 / ROCK ROAD</b>	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62779	PLOT SCALE =	DRAWN - T.W.K.	REVISED -			1477	13-00029-03-BR	McLEAN	36	5
ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE CORP. 184.009989	PLOT DATE = 12/10/2015	CHECKED - S.W.M.	REVISED -			ARTEMAN BRIDGE		CONTRACT NO. 91521		ILLINOIS FED. AID PROJECT
		DATE - 08/14/14	REVISED -			SCALE: 5V=20H	SHEET NO. 1 OF 2 SHEETS	STA. 1+00.00 TO STA. 7+00.00		

DATE	
BY	
PLAN	
SURVEYED	
NOTED	
CHECKED	
RT. OF WAY CHECKED	
NO. _____	
FILE NAME	

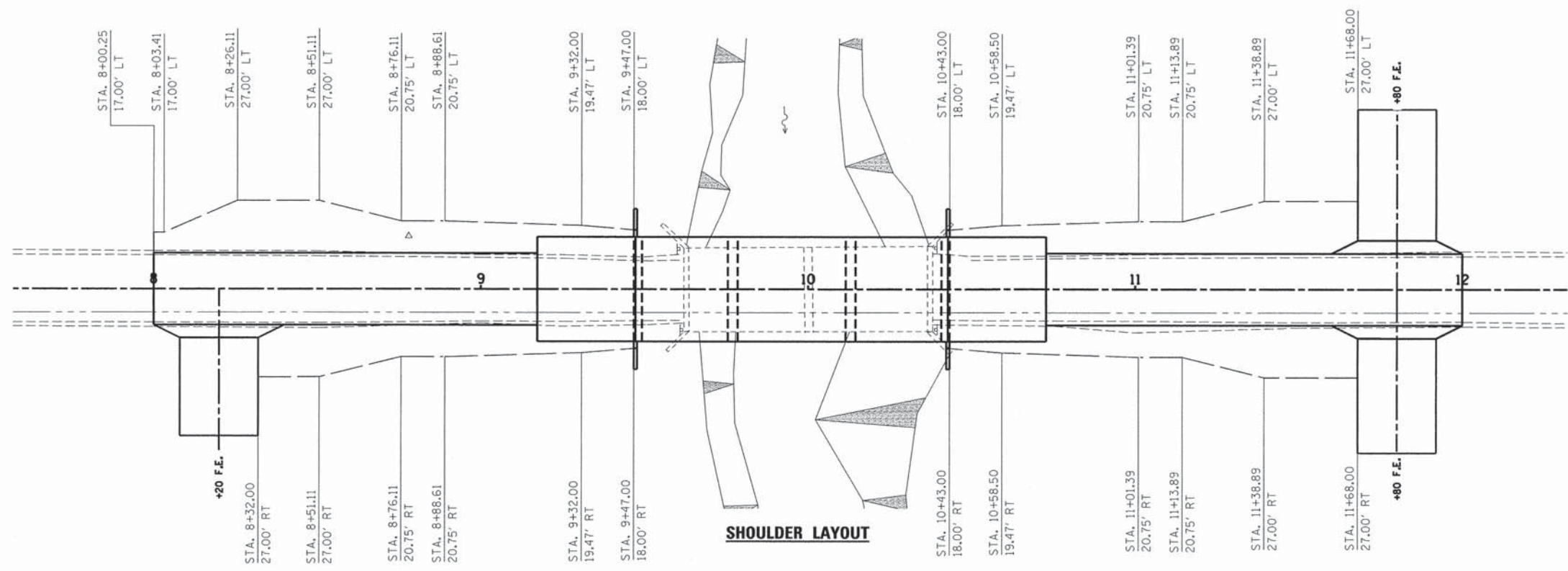
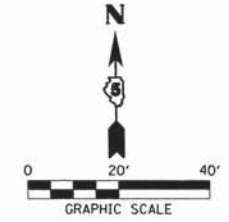
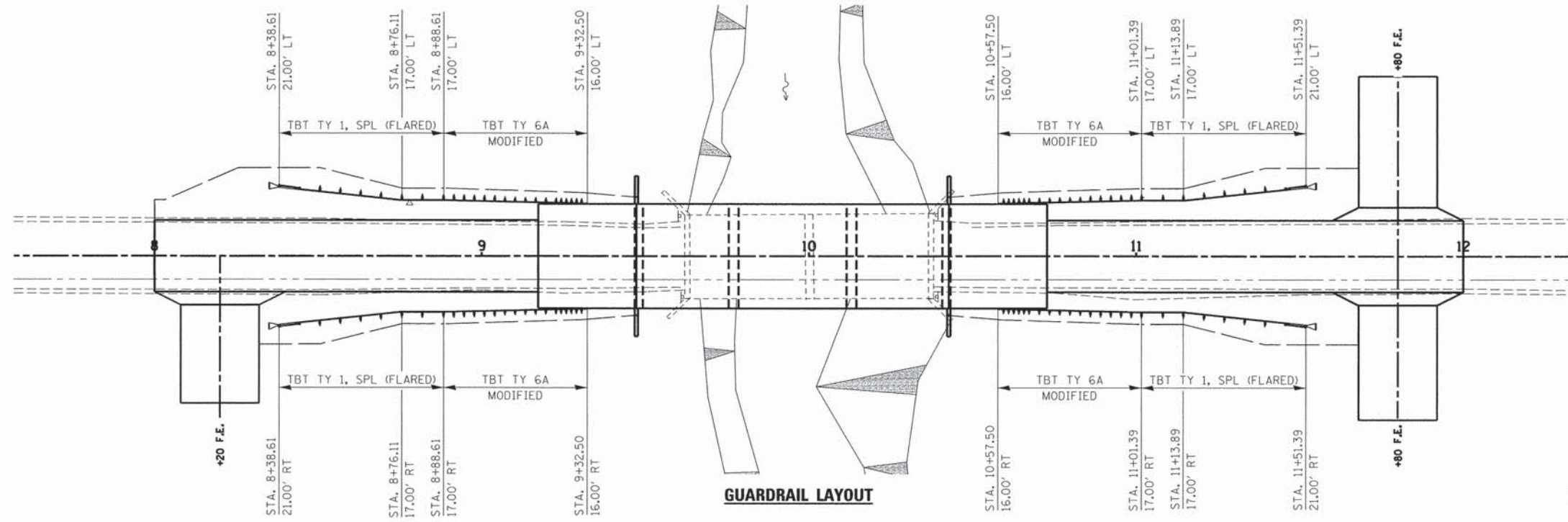
DATE	
BY	
PROFILE	
SURVEYED	
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RT. OF WAY CHECKED	
NO. _____	
FILE NAME	



DATE	
BY	
PLAN	
SURVEYED	
PLOTTED	
CHECKED	
NOTE BOOK	
NO.	
FILE NAME	

DATE	
BY	
PROFILE	
SURVEYED	
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NOTE BOOK	
NO.	
FILE NAME	

FILE NAME = 148199-sh1-p8p.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	<b>STATE OF ILLINOIS McLEAN COUNTY HIGHWAY DEPARTMENT</b>	<b>PLAN &amp; PROFILE C.H. 40 / ROCK ROAD</b>	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	DRAWN - T.W.K.	REVISED -			1477	13-00029-03-BR	McLEAN	36	6	
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000058	PLOT DATE = 12/10/2015	CHECKED - S.W.M.	REVISED -			ARTEMAN BRIDGE					CONTRACT NO. 91521
		DATE = 08/14/14	REVISED -			SCALE: 5v:20H	SHEET NO. 2 OF 2 SHEETS	STA. 7+00.00 TO STA. 13+00.00	ILLINOIS FED. AID PROJECT		



FILE NAME = 148199-shl-guardrail.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	<b>STATE OF ILLINOIS McLEAN COUNTY HIGHWAY DEPARTMENT</b>	<b>GUARDRAIL AND SHOULDER LAYOUT C.H. 40 / ROCK ROAD</b>			F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>HLR</b> HAMPTON, LENZINI AND RENWICK, INC. 2003 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62761 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000009	PLOT SCALE =	DRAWN - T.W.K.	REVISED -		1477	13-00029-03-BR	McLEAN	36	7			
PLOT DATE = 12/10/2015		CHECKED - S.W.M.	REVISED -		SCALE: SHEET NO. OF SHEETS STA. TO STA.			ARTEMAN BRIDGE		CONTRACT NO. 91521		
		DATE - 02/09/15	REVISED -					ILLINOIS FED. AID PROJECT				

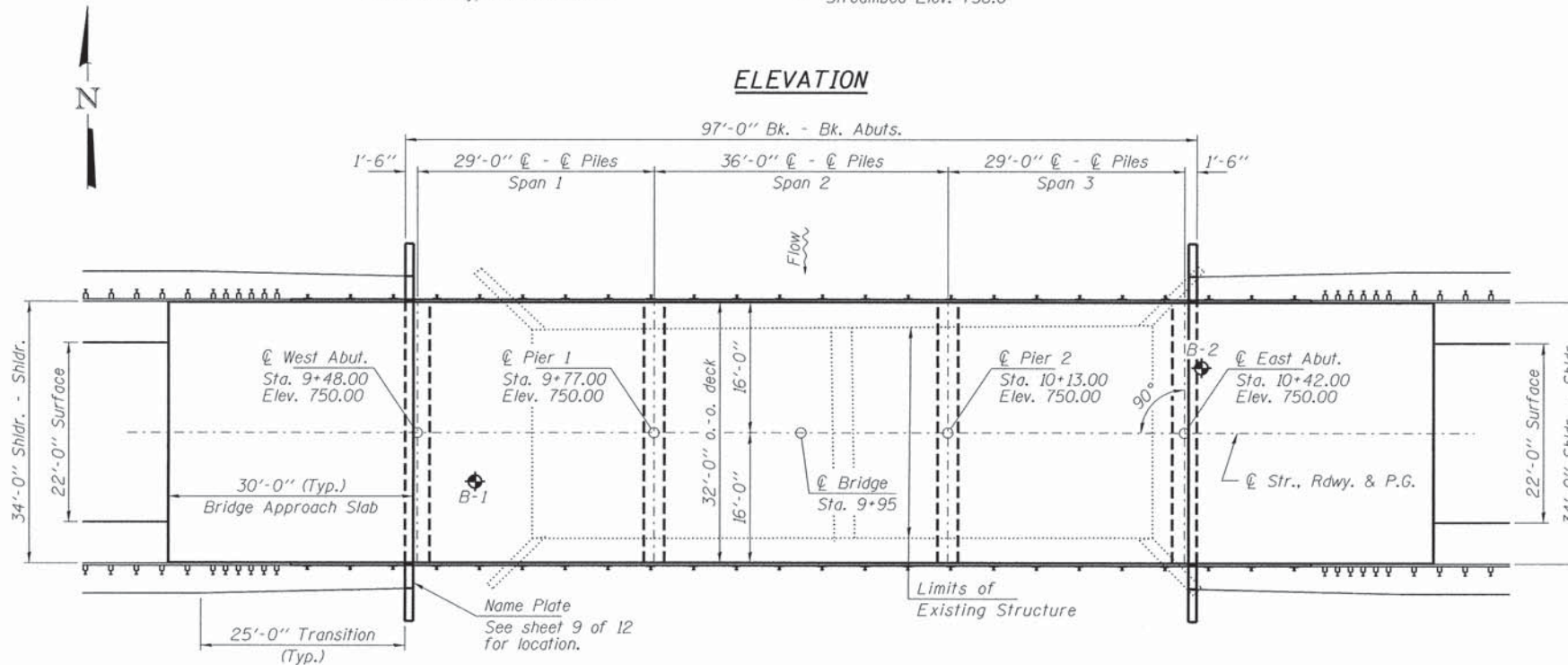
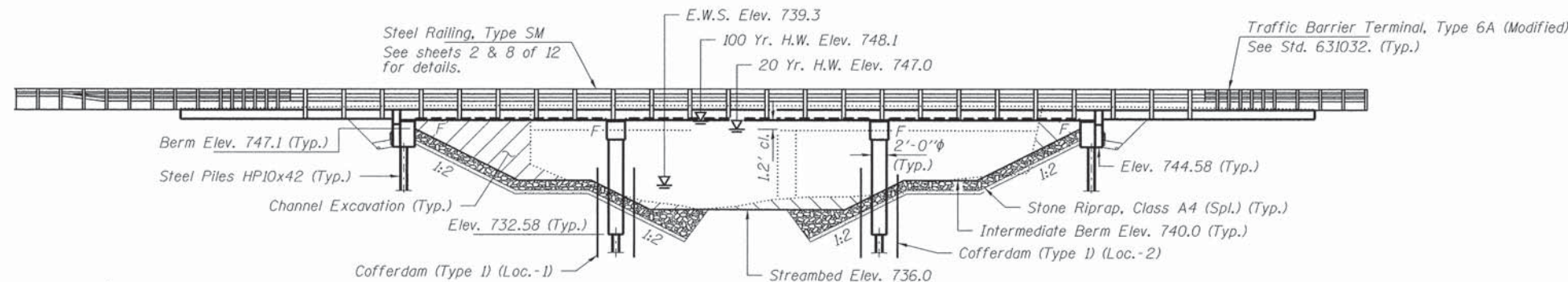
BENCHMARK: Chiseled "□" on NE wingwall. 12' Lt., Sta. 10+35, Elev. 749.91

EXISTING STRUCTURE NO 057-5712: Sta. 10+00. Two span reinforced concrete T-beam bridge with concrete parapets on closed concrete abutments and solid wall piers and wingwalls. 73.5' fc.-fc. abuts.; 26.0' fc.-fc. rail.

No Salvage

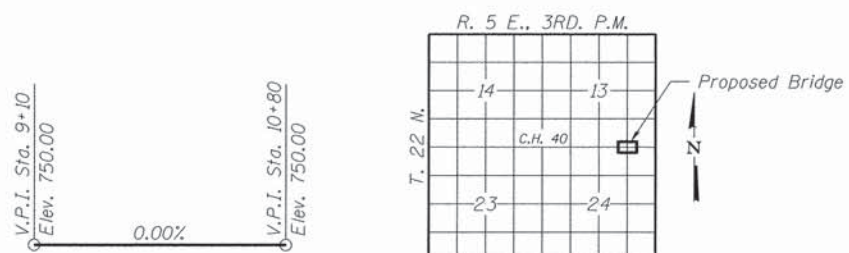
**GENERAL NOTES**

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 West Abutment and Pier 2 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 and Piers shall be included in the cost of Concrete Structures. No additional compensation will be allowed for Structure Excavation or Cofferdam 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.  
 The Contractor shall make allowance for the deflection of forms, shrinkage, and settlement of falsework, in addition to allowance for dead load deflection.  
 Protective Coat shall be applied to the top surface and the sides of the concrete deck and wingwalls.  
 Bridge Deck Grooving shall be completed on the bridge deck and Bridge Approach Slab.  
 Pavement rollers shall not be allowed on bridge deck grooving.  
 All construction joints shall be bonded.



**INDEX OF STRUCTURE SHEETS**

1. General Plan & Elevation
2. General Details
3. Slab Elevations
4. Superstructure
5. Superstructure Details
- 6-7. Bridge Approach Slab Details
8. Steel Railing, Type SM
9. Abutments
10. Piers
11. Steel HP Pile Details
12. Borings



PROFILE GRADE

LOCATION SKETCH

**PLAN**

**SEISMIC DATA**

Seismic Performance Zone (SPZ) = 1  
 Design Spectral Acceleration at 1.0 sec. ( $S_{D1}$ ) = 0.128g  
 Design Spectral Acceleration at 0.2 sec. ( $S_{D5}$ ) = 0.216g  
 Soil Site Class = D

	W. Abut.	Pier 1	Pier 2	E. Abut.
Q100	744.7	726.5	726.5	744.7
Q500	744.7	727.3	727.3	744.7

**DESIGN SPECIFICATIONS**

2012 AASHTO LRFD Bridge Design Specifications with all applicable interims

**LOADING HL-93**

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

**DESIGN STRESSES**

$f'_c$  = 5,000 psi (Super)  
 $f'_c$  = 3,500 psi (Sub)  
 $f_y$  = 60,000 psi (Reinf.)

**WATERWAY INFORMATION**

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater El.		
			Exist.	Prop.	Natural H.W.E.	Exist. Prop.	Exist. Prop.	Exist. Prop.	
Design	10	3040	540	540	746.21	0.53	0.46	746.74	746.67
Base	20	3870	590	610	747.03	1.02	0.76	748.05	747.79
Max. Calc.	100	5960	590	710	748.13	2.01	1.64	750.14	749.77
	500	8230	590	720	749.01	1.89	1.55	750.90	750.56

Drainage Area = 21.9 Sq. Mi. Existing Low Grade Elev. 749.6 @ Sta. 12+00  
 Proposed Low Grade Elev. 749.6 @ Sta. 12+00  
 10 Year Velocity through Existing Bridge = 5.6 Fps 10 Year Velocity through Proposed Bridge = 5.6 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 12/10/2015  
 ILLINOIS STRUCTURAL ENGINEER NO. 081-6064



**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.			340
Stone Riprap, Class A4 (Special)	Ton			710
Removal of Existing Structures	Each			1
Cofferdam (Type I) (Location - 1)	Each			1
Cofferdam (Type I) (Location - 2)	Each			1
Concrete Structures	Cu. Yd.		64.2	64.2
Concrete Superstructure	Cu. Yd.	241.8		241.8
Concrete Encasement	Cu. Yd.		17.7	17.7
Bridge Deck Grooving	Sq. Yd.	517		517
Protective Coat	Sq. Yd.	589		589
Reinforcement Bars, Epoxy Coated	Pound	86,350	9,860	96,210
Steel Railing, Type SM	Foot	250		250
Furnishing Steel Piles HPI0x42	Foot		1,065	1,065
Driving Piles	Foot		1,065	1,065
Test Pile Steel HPI0x42	Each		2	2
Name Plates	Each		1	1
Geocomposite Wall Drain	Sq. Yd.			42
Granular Backfill for Structures	Ton		80	80
Pipe Underdrains for Structures, 4"	Foot			121

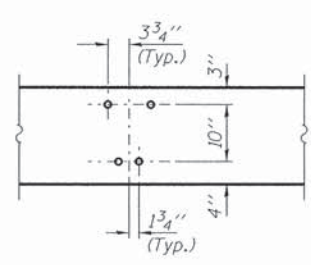
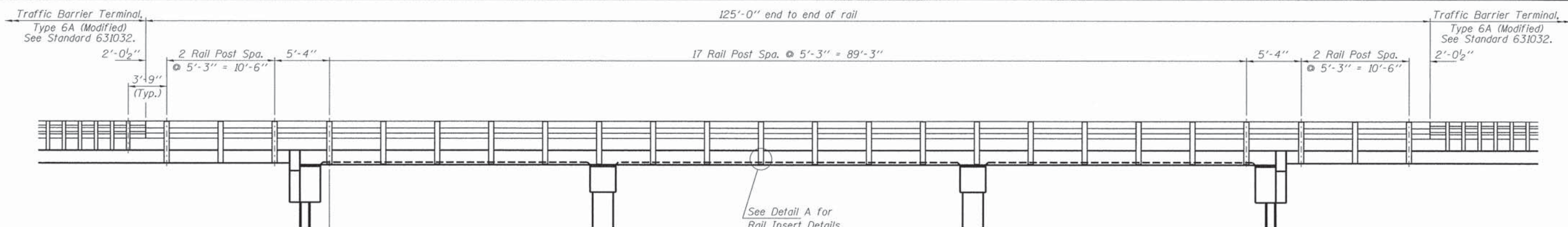
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HAMPTON, LENZINI AND RENWICK, INC. 2095 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62761	PLOT SCALE =	CHECKED - S.W.M.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM L.S./P.E./S.E. CORP. 184.000059	PLOT DATE = 12/18/2015	DRAWN - D.A.B.	REVISED -
		CHECKED - S.W.M.	REVISED -

STATE OF ILLINOIS  
 McLEAN COUNTY HIGHWAY DEPARTMENT

GENERAL PLAN  
 STRUCTURE NO. 057-5734  
 SHEET NO. 1 OF 12 SHEETS

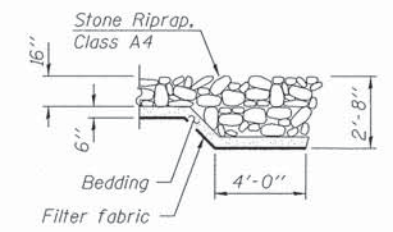
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1477	13-00029-03-BR	McLEAN	36	8
ARTEMAN BRIDGE			CONTRACT NO. 91521	
ILLINOIS FED. AID PROJECT				



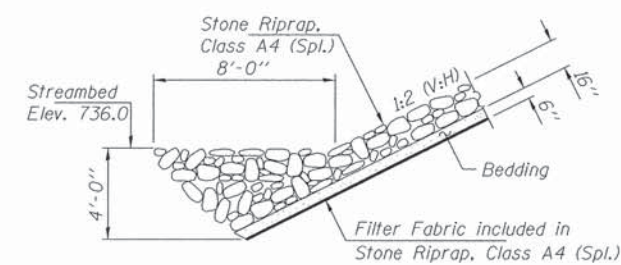


**DETAIL A**

**ELEVATION**  
Showing Rail Post Spaces  
See sheet 8 of 12 for Railing Details.



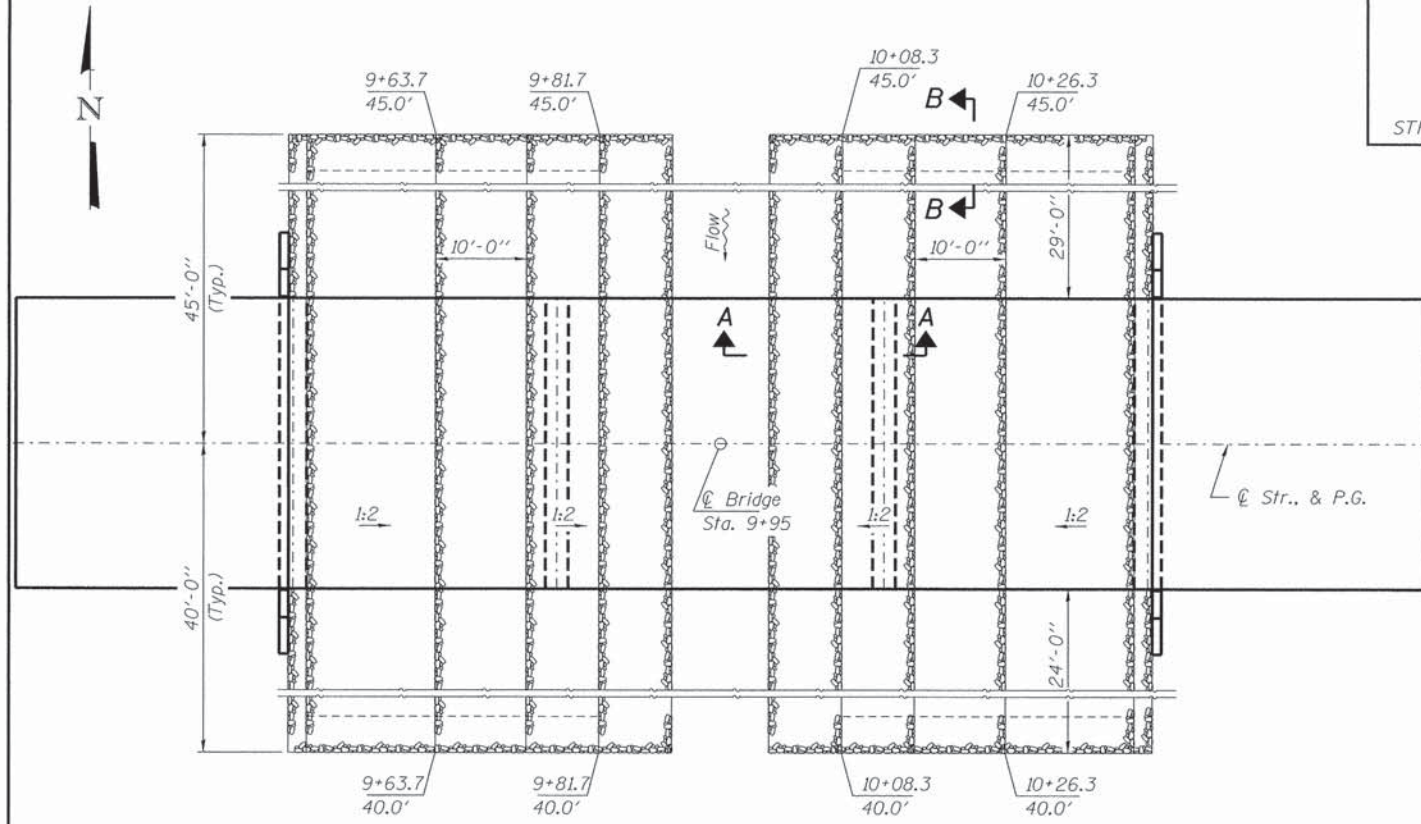
**SECTION B-B**



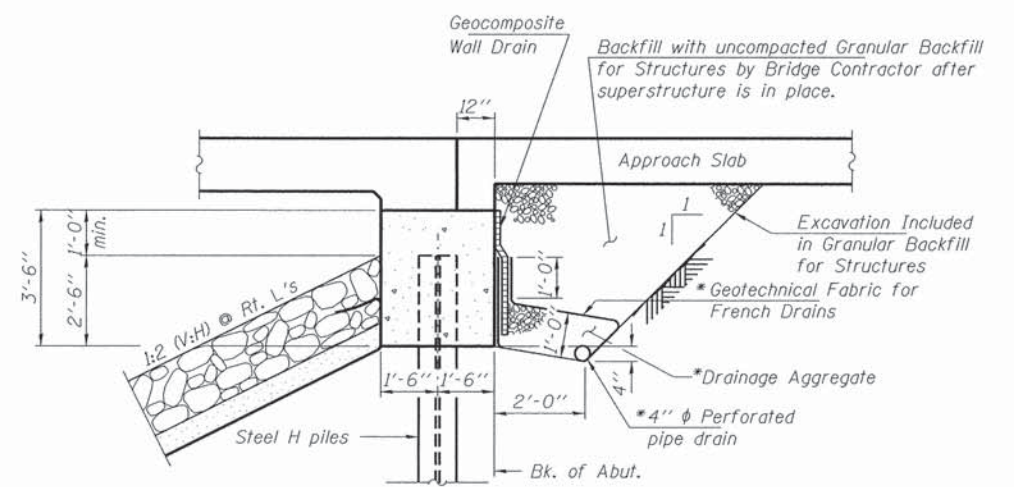
**SECTION A-A**

ARTEMAN BRIDGE  
SALT CREEK  
BUILT 2011 BY  
McLEAN COUNTY  
C.H. 40 / ROCK ROAD  
SEC. 13-00029-03-BR  
STR. NO. 057-5734 LOADING HL-93

**NAME PLATE**  
See Std. 515001



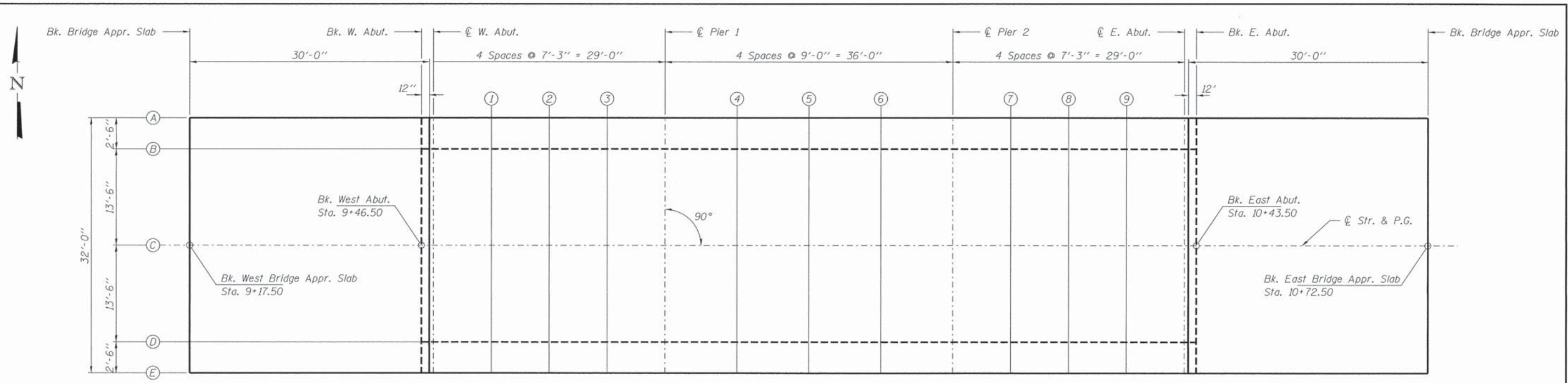
**PLAN**



**SECTION THRU INTEGRAL ABUTMENT**  
(Horiz. dim. @ Rt. L's)

\* Included in the cost of Pipe Underdrains for Structures.  
Note:  
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).

FILE NAME = 140199-sht-br-bridge.dgn	USER NAME =	DESIGNED - T.J.A.	REVISED -	<b>STATE OF ILLINOIS McLEAN COUNTY HIGHWAY DEPARTMENT</b>	<b>GENERAL DETAILS STRUCTURE NO. 057-5734</b>	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 2005 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S./P.E./S.E. CORP. 184.000009	PLOT SCALE =	CHECKED - S.W.M.	REVISED -			1477	13-00029-03-BR	McLEAN	36	9	
	PLOT DATE = 12/10/2015	DRAWN - D.A.B.	REVISED -			ARTEMAN BRIDGE					CONTRACT NO. 91521
		CHECKED - S.W.M.	REVISED -			ILLINOIS FED. AID PROJECT					



PLAN

TABLE OF ELEVATIONS

LOCATION		*BK. W.	BK. W.	CL W.	SPAN 1			CL	SPAN 2			CL	SPAN 3			CL E.	BK. E.	*BK. E.
		B.A.S	ABUT.	ABUT.	1	2	3	PIER 1	4	5	6	PIER 2	7	8	9	ABUT.	ABUT.	B.A.S
LINE	T.	749.667	749.667	749.667	749.667	749.667	749.667	749.667	749.667	749.667	749.667	749.667	749.667	749.667	749.667	749.667	749.667	749.667
A	ADJ.	749.667	749.667	749.667	749.676	749.677	749.672	749.667	749.674	749.680	749.674	749.667	749.674	749.679	749.672	749.667	749.667	749.667
**	Bott. of Slab	748.417	748.250	748.250	748.259	748.260	748.255	748.250	748.258	748.263	748.258	748.250	748.258	748.263	748.255	748.250	748.250	748.417

LOCATION		*BK. W.	BK. W.	CL W.	SPAN 1			CL	SPAN 2			CL	SPAN 3			CL E.	BK. E.	*BK. E.
		B.A.S	ABUT.	ABUT.	1	2	3	PIER 1	4	5	6	PIER 2	7	8	9	ABUT.	ABUT.	B.A.S
LINE	T.	749.719	749.719	749.719	749.719	749.719	749.719	749.719	749.719	749.719	749.719	749.719	749.719	749.719	749.719	749.719	749.719	749.719
B	ADJ.	749.719	749.719	749.719	749.728	749.729	749.724	749.719	749.726	749.732	749.726	749.719	749.726	749.731	749.724	749.719	749.719	749.719
**	Bott. of Slab	748.469	748.552	748.552	748.561	748.562	748.557	748.552	748.560	748.565	748.560	748.552	748.560	748.565	748.557	748.552	748.552	748.469

LOCATION		*BK. W.	BK. W.	CL W.	SPAN 1			CL	SPAN 2			CL	SPAN 3			CL E.	BK. E.	*BK. E.
		B.A.S	ABUT.	ABUT.	1	2	3	PIER 1	4	5	6	PIER 2	7	8	9	ABUT.	ABUT.	B.A.S
LINE	T.	750.000	750.000	750.000	750.000	750.000	750.000	750.000	750.000	750.000	750.000	750.000	750.000	750.000	750.000	750.000	750.000	750.000
C	ADJ.	750.000	750.000	750.000	750.009	750.010	750.005	750.000	750.008	750.013	750.008	750.000	750.008	750.013	750.005	750.000	750.000	750.000
**	Bott. of Slab	748.750	748.833	748.833	748.843	748.843	748.838	748.833	748.841	748.847	748.841	748.833	748.841	748.846	748.838	748.833	748.833	748.750

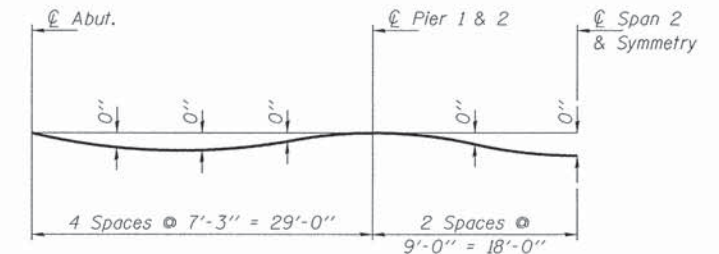
  

LOCATION		*BK. W.	BK. W.	CL W.	SPAN 1			CL	SPAN 2			CL	SPAN 3			CL E.	BK. E.	*BK. E.
		B.A.S	ABUT.	ABUT.	1	2	3	PIER 1	4	5	6	PIER 2	7	8	9	ABUT.	ABUT.	B.A.S
LINE	T.	749.719	749.719	749.719	749.719	749.719	749.719	749.719	749.719	749.719	749.719	749.719	749.719	749.719	749.719	749.719	749.719	749.719
D	ADJ.	749.719	749.719	749.719	749.728	749.729	749.724	749.719	749.726	749.732	749.726	749.719	749.726	749.731	749.724	749.719	749.719	749.719
**	Bott. of Slab	748.469	748.552	748.552	748.561	748.562	748.557	748.552	748.560	748.565	748.560	748.552	748.560	748.565	748.557	748.552	748.552	748.469

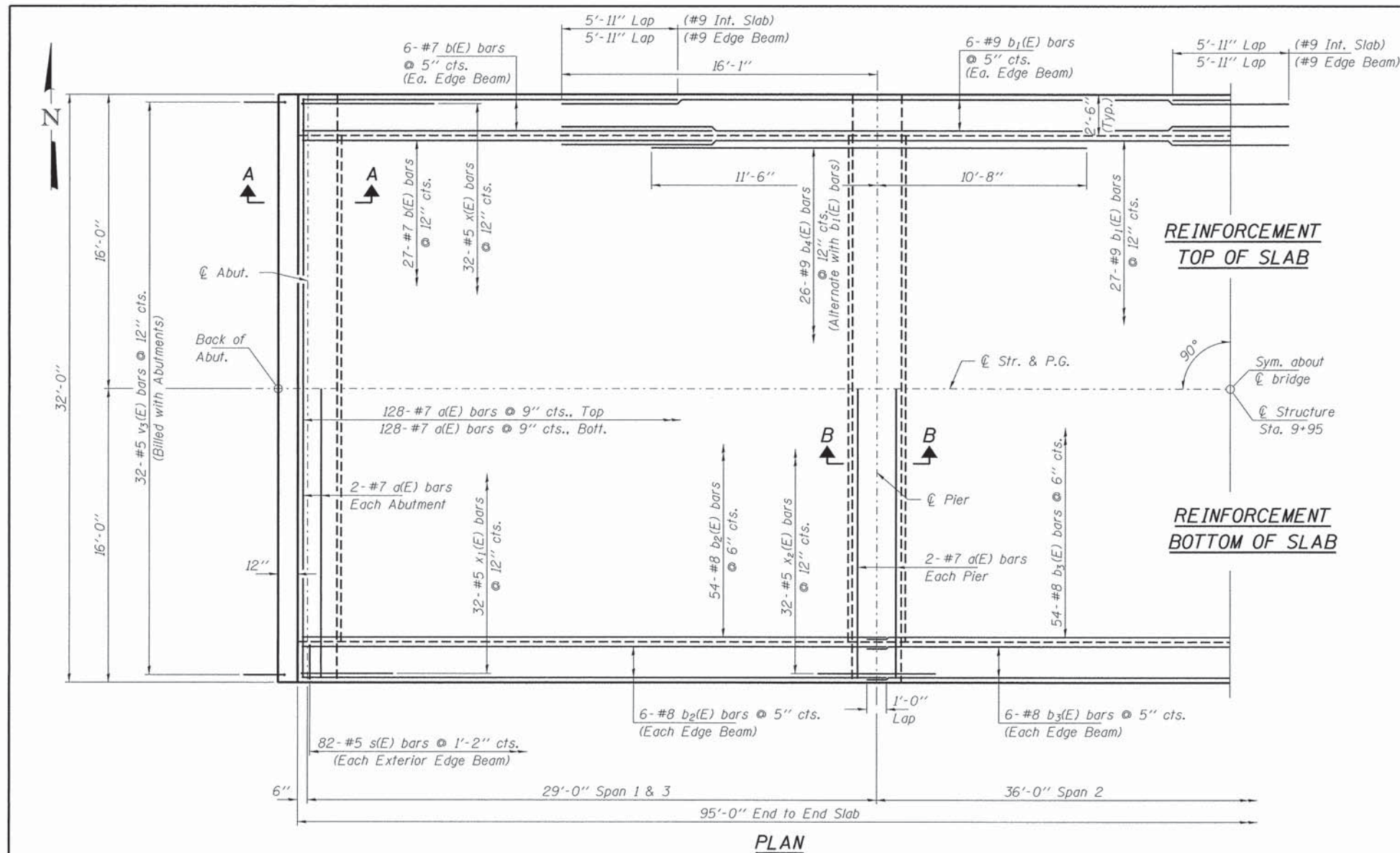
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		B.A.S	ABUT.	ABUT.	1	2	3	PIER 1	4	5	6	PIER 2	7	8	9	ABUT.	ABUT.	B.A.S
LINE	T.	749.667	749.667	749.667	749.667	749.667	749.667	749.667	749.667	749.667	749.667	749.667	749.667	749.667	749.667	749.667	749.667	749.667
E	ADJ.	749.667	749.667	749.667	749.676	749.677	749.672	749.667	749.674	749.680	749.674	749.667	749.674	749.679	749.672	749.667	749.667	749.667
**	Bott. of Slab	748.417	748.250	748.250	748.259	748.260	748.255	748.250	748.258	748.263	748.258	748.250	748.258	748.263	748.255	748.250	748.250	748.417

T. - Theoretical elevation at top of slab  
 Adj. - T adjusted for dead load deflection  
 \* Bottom of slab elevation equals bottom of 14" slab  
 \*\* Bottom of slab elevation equals bottom of edge beam



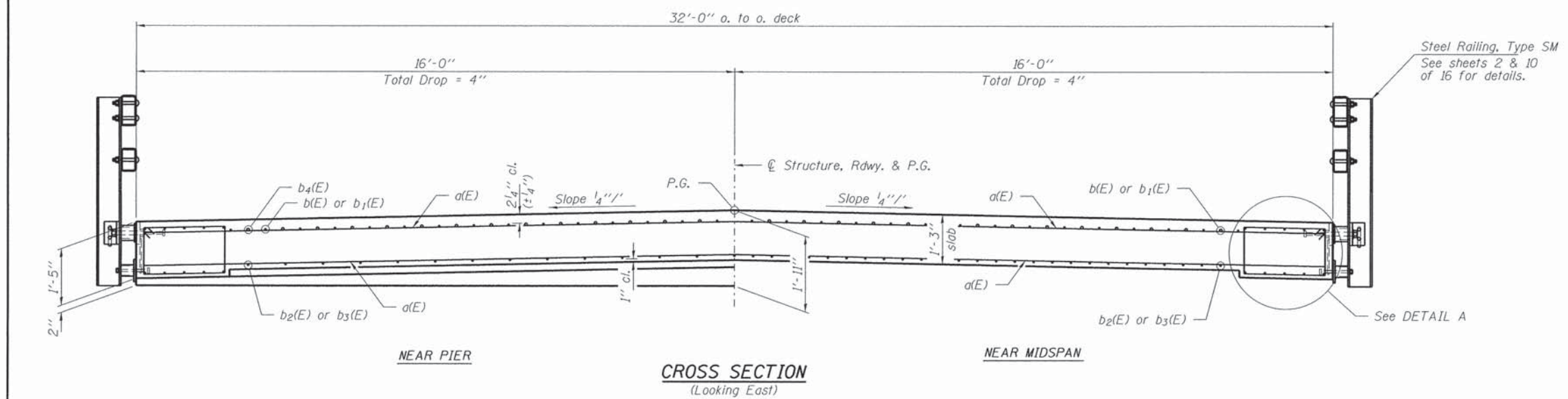
DEAD LOAD DEFLECTION DIAGRAM  
 (Includes weight of concrete only.)

Notes:  
 The deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown.  
 The Contractor shall make allowance for the deflection of forms, shrinkage and settlement of falsework in addition to allowance for dead load deflection.

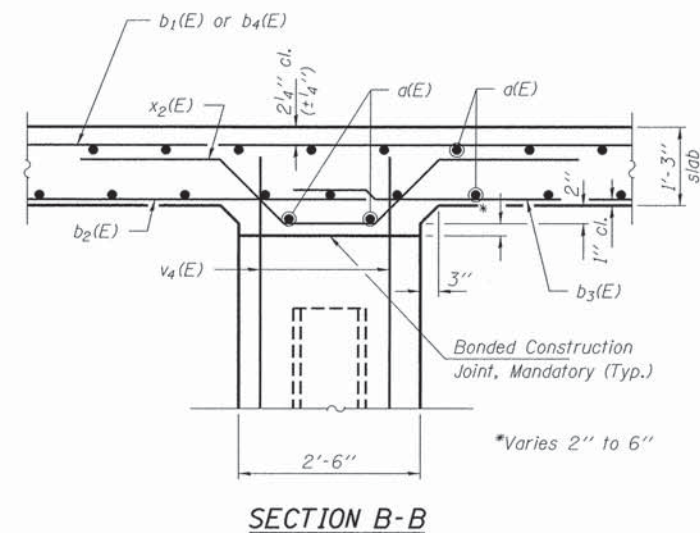
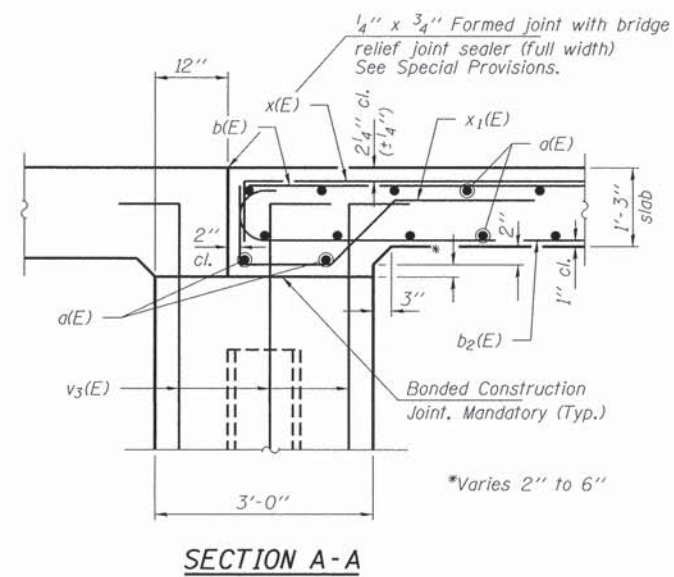
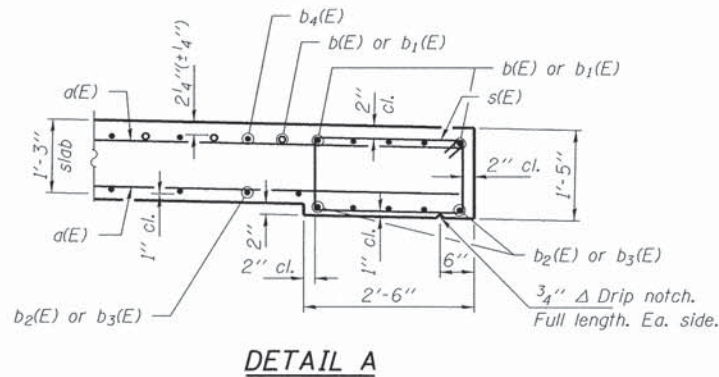
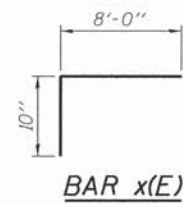
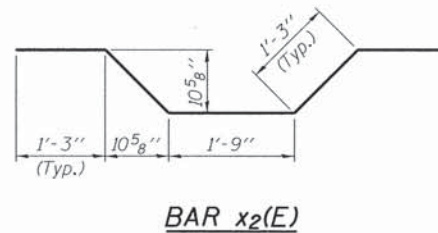
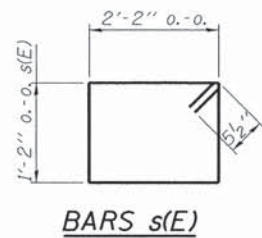
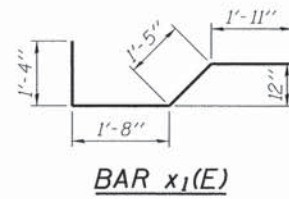
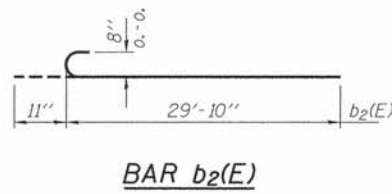


Notes:  
 See sheets 7 of 16 for Superstructure  
 Details and Bill of Material.  
 See sheet 7 of 16 for SECTION A-A,  
 SECTION B-B and DETAIL A.

**MIN. BAR LAP**  
 #9 bars = 5'-11"



FILE NAME = 140199-sht-br ridge.dgn	USER NAME =	DESIGNED - T.J.A.	REVISED -	<b>STATE OF ILLINOIS McLEAN COUNTY HIGHWAY DEPARTMENT</b>	<b>SUPERSTRUCTURE STRUCTURE NO. 057-5734</b>	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 2085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62761	PLOT SCALE =	CHECKED - S.W.M.	REVISED -			1477	13-00029-03-BR	McLEAN	36	11	
<b>HLR</b> ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE CORP. 184.000000	PLOT DATE = 12/18/2015	DRAWN - D.A.B.	REVISED -			ARTEMAN BRIDGE					CONTRACT NO. 91521
		CHECKED - S.W.M.	REVISED -			ILLINOIS FED. AID PROJECT					



Note:  
Pour bridge slab before  
pouring approach slab.

**SUPERSTRUCTURE  
BILL OF MATERIAL**

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	264	#7	31'-8"	—
b(E)	78	#7	19'-2"	—
b1(E)	78	#9	37'-1"	—
b2(E)	132	#8	29'-10"	U
b3(E)	66	#8	37'-0"	—
b4(E)	52	#9	22'-2"	—
s(E)	164	#5	7'-7"	□
x(E)	64	#5	8'-10"	L
x1(E)	64	#5	6'-4"	W
x2(E)	64	#5	6'-9"	W
Concrete Superstructure			Cu. Yd.	148.8
Bridge Deck Grooving			Sq. Yd.	317
Protective Coat			Sq. Yd.	368
Reinforcement Bars, Epoxy Coated			Pound	53,690

Reinforcement bars designated (E) shall be epoxy coated.

FILE NAME = 140199-sht-bridge.dgn	USER NAME =	DESIGNED - T.J.A.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 5095 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - S.W.M.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000959	PLOT DATE = 12/10/2015	DRAWN - D.A.B.	REVISED -
		CHECKED - S.W.M.	REVISED -

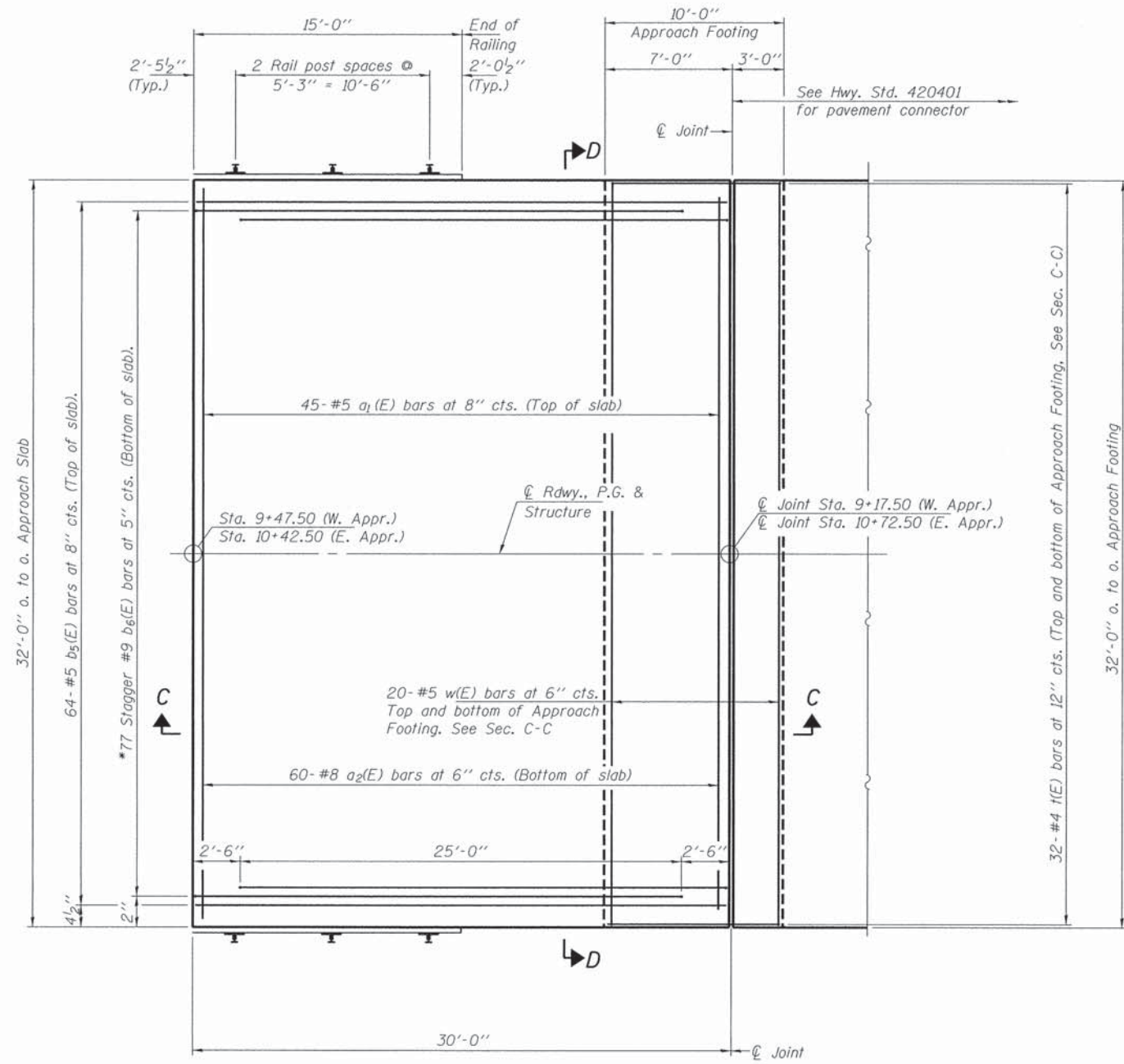
**STATE OF ILLINOIS  
McLEAN COUNTY HIGHWAY DEPARTMENT**

**SUPERSTRUCTURE DETAILS  
STRUCTURE NO. 057-5734**

SHEET NO. 5 OF 12 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1477	13-00029-03-BR	McLEAN	36	12
ARTEMAN BRIDGE		CONTRACT NO. 91521		
ILLINOIS FED. AID PROJECT				

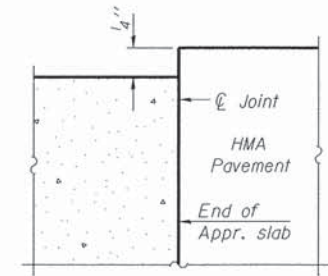
Notes:  
See sheet 9 of 16 for Sections C-C & D-D.  
a<sub>1</sub>(E) and a<sub>2</sub>(E) bar spacings measured along  $\text{\textcircled{C}}$  Rdwy.



**PLAN**

\* Tilt #9 b<sub>4</sub>(E) bars as required to maintain clearance.

See sheet 10 of 16 for Railing Details.  
See sheet 2 of 16 for Rail Insert dimensions.



**FLEXIBLE PAVEMENT**

**DETAIL A**

BA-0 12-12-12

(Sheet 1 of 2)

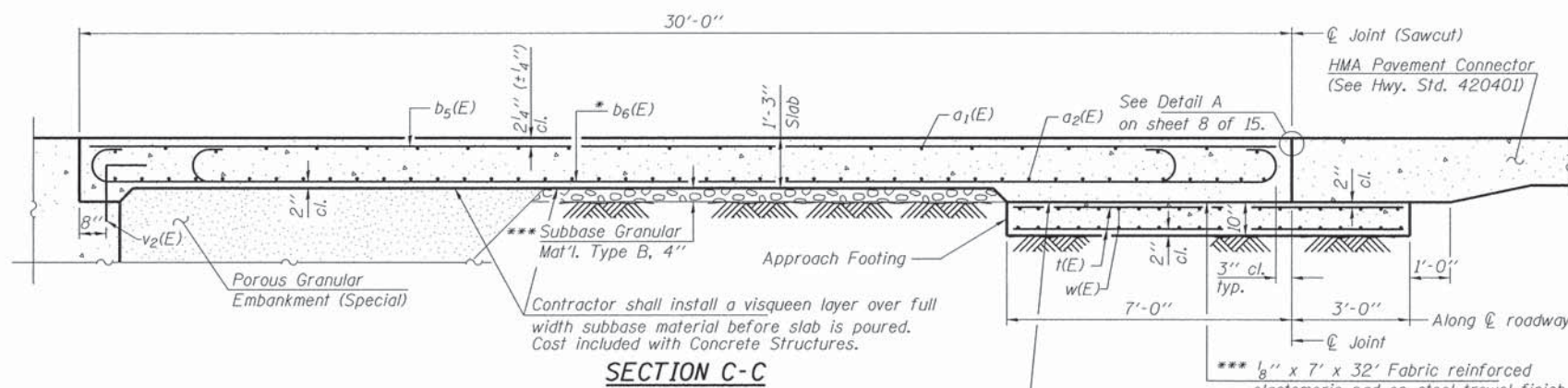
FILE NAME = 140199-sht-brsldge.dgn	USER NAME =	DESIGNED - T.J.A.	REVISED -
HAMPTON, LENZI AND RENWICK, INC. 2085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L3 / P.E. / S.E. CORP. 184.000059	PLOT SCALE =	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 12/10/2015	DRAWN - D.A.B.	REVISED -
		CHECKED - S.W.M.	REVISED -

STATE OF ILLINOIS  
McLEAN COUNTY HIGHWAY DEPARTMENT

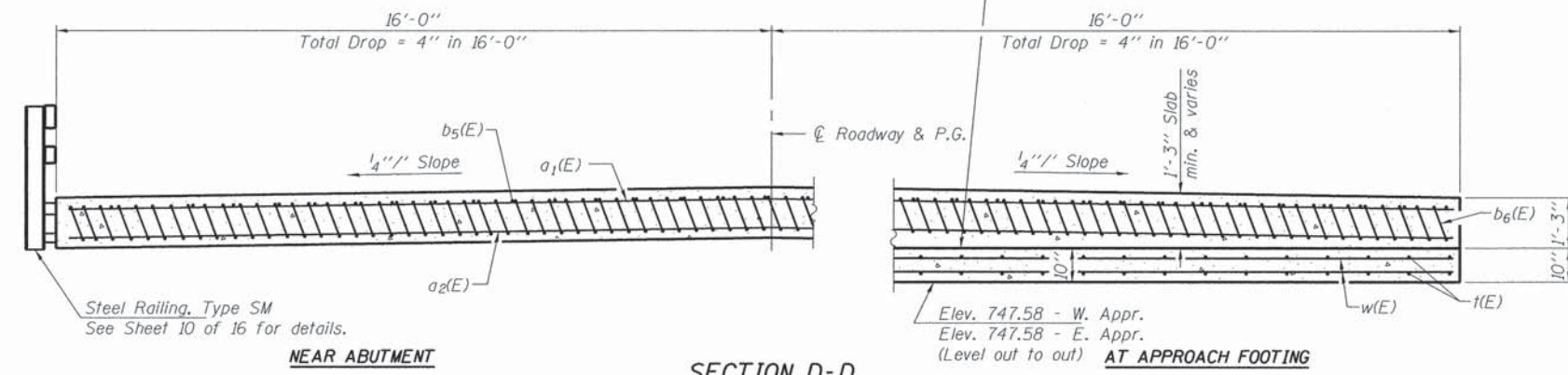
BRIDGE APPROACH SLAB DETAILS  
STRUCTURE NO. 057-5734

SHEET NO. 6 OF 12 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1477	13-00029-03-BR	McLEAN	36	13
ARTEMAN BRIDGE			CONTRACT NO. 91521	
ILLINOIS FED. AID PROJECT				



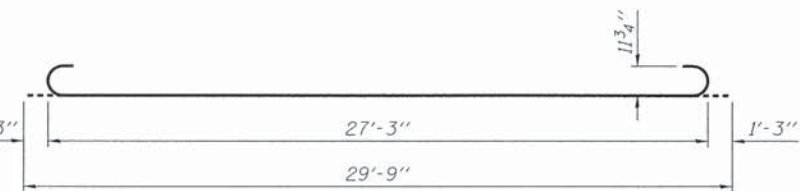
**SECTION C-C**



**NEAR ABUTMENT**

**SECTION D-D**

(See Plan for dimensions not shown)



**BAR b6(E)**

**Notes:**

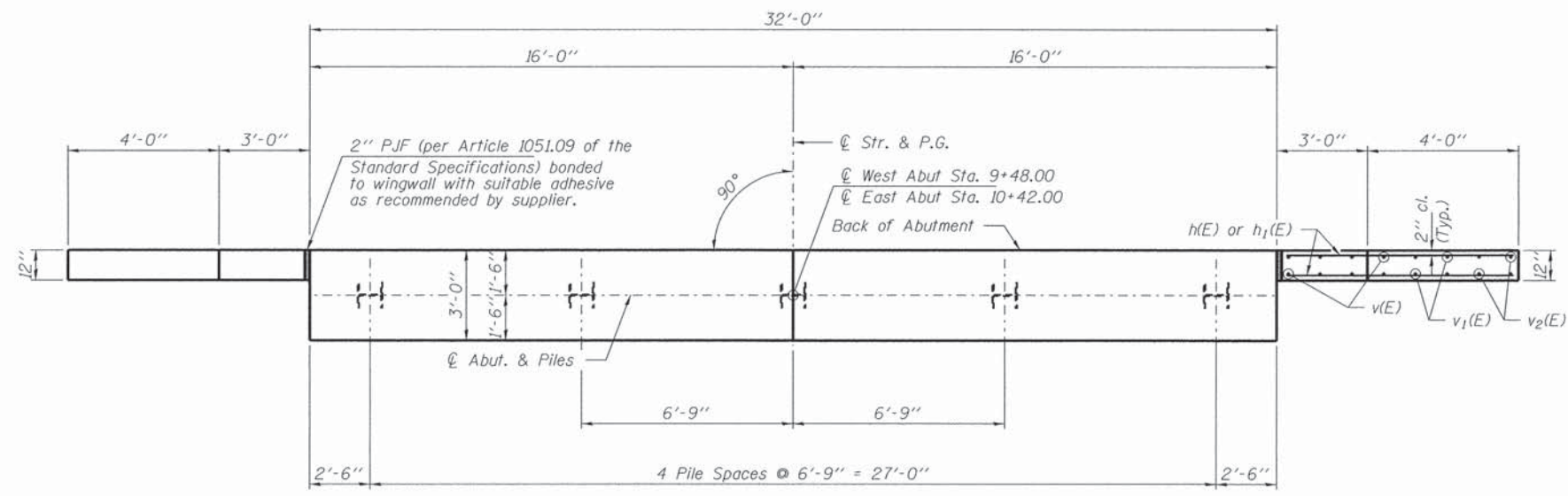
- Approach slab shall be paid for as Concrete Superstructure.
- Approach footing concrete shall be paid for as Concrete Structures.
- Reinforcement shall be paid for as Reinforcement Bars, Epoxy Coated.
- For v2(E) bar details, see sheet 11 & 12 of 16.
- The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
- Cost of excavation for approach footing included with Concrete Structures.
- For Porous Granular Embankment (Special) and drainage treatment details, see sheet 2 of 16.

- \* Tilt #9 b6(E) bars as required to maintain clearance.
- \*\*\* Cost included with Concrete Superstructure.

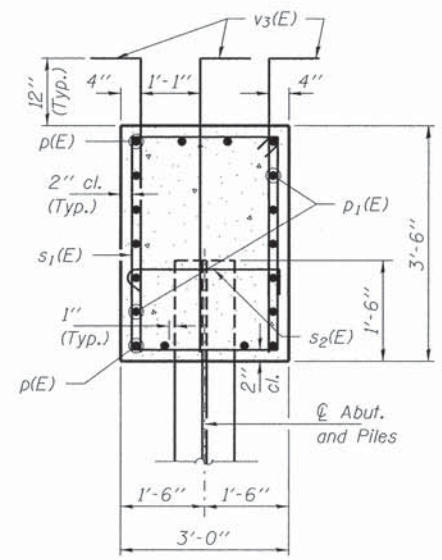
**TWO APPROACHES  
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a1(E)	90	#5	31'-8"	—
a2(E)	120	#8	31'-8"	—
b5(E)	128	#5	29'-8"	—
b6(E)	154	#9	29'-9"	⌋
t(E)	128	#4	9'-8"	—
w(E)	80	#5	31'-8"	—
Concrete Structures			Cu. Yd.	19.8
Concrete Superstructure			Cu. Yd.	93.0
Bridge Deck Grooving			Sq. Yd.	200
Protective Coat			Sq. Yd.	222
Reinforcement Bars, Epoxy Coated			Pound	36,130

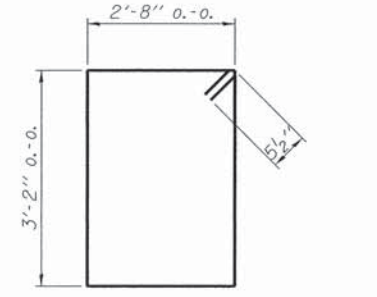




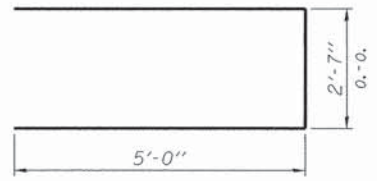
PLAN



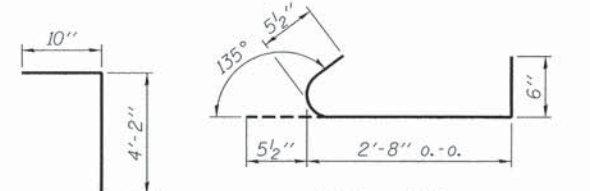
SECTION A-A



BAR s<sub>1</sub>(E)



BAR u(E)

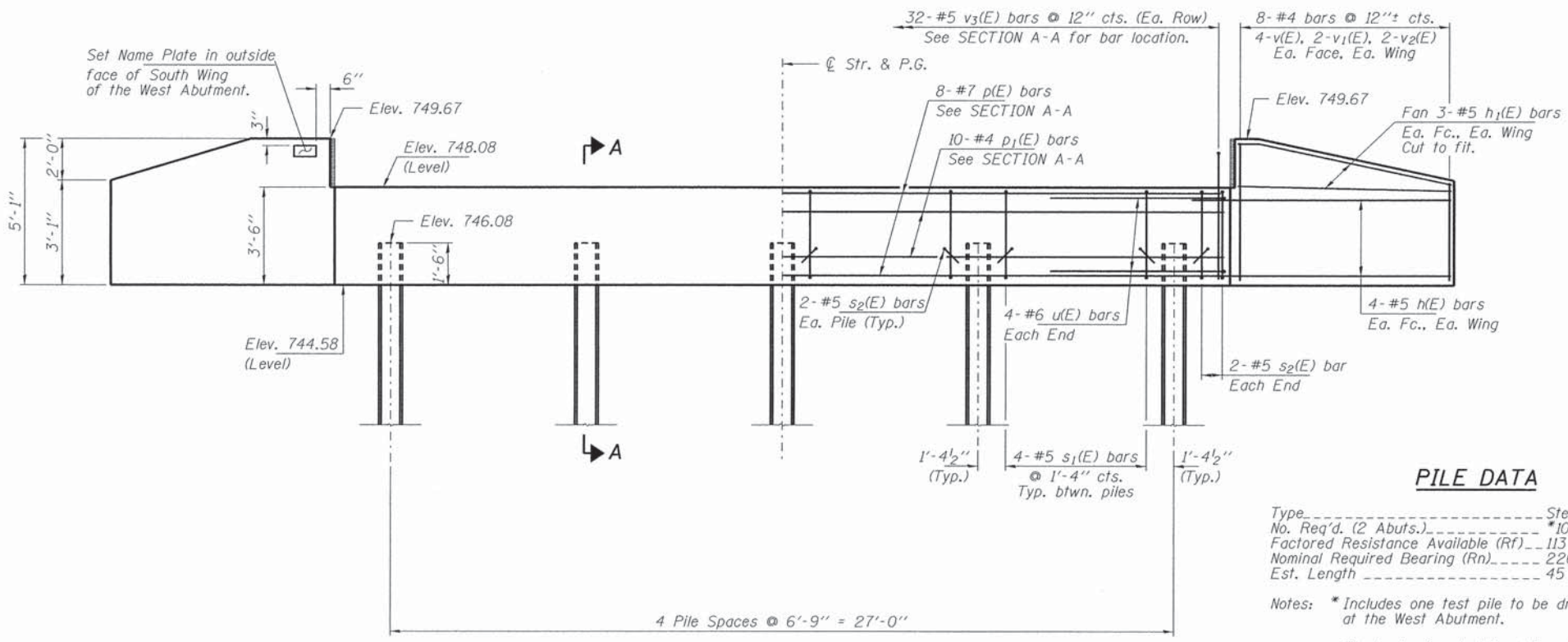


BAR v<sub>2</sub>(E)

BAR s<sub>2</sub>(E)

Note: Extend h(E) bars into abutment cap.

Notes:  
Entire wing shall be poured monolithic with the abutment cap. Entire quantity included with Concrete Structures.  
For details of piles, see sheet 14 of 16.



ELEVATION

PILE DATA

Type: Steel HP10x42  
No. Req'd. (2 Abuts.): 10  
Factored Resistance Available (Rf): 113 Kips/Pile  
Nominal Required Bearing (Rn): 226 Kips/Pile  
Est. Length: 45 Ft/Pile

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

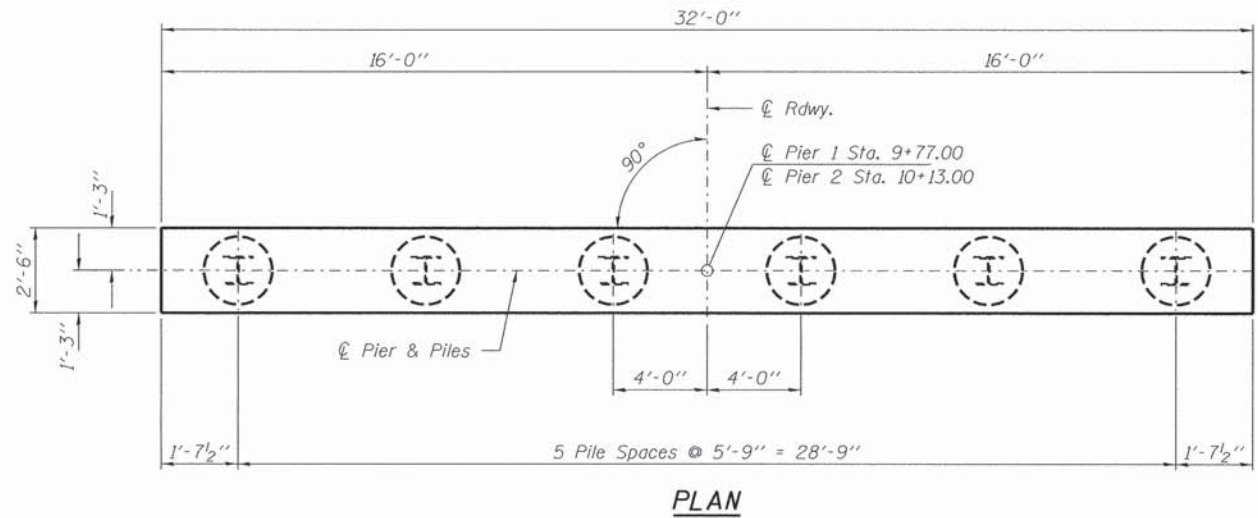
The test piles shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.

BILL OF MATERIAL - 2 ABUTS.

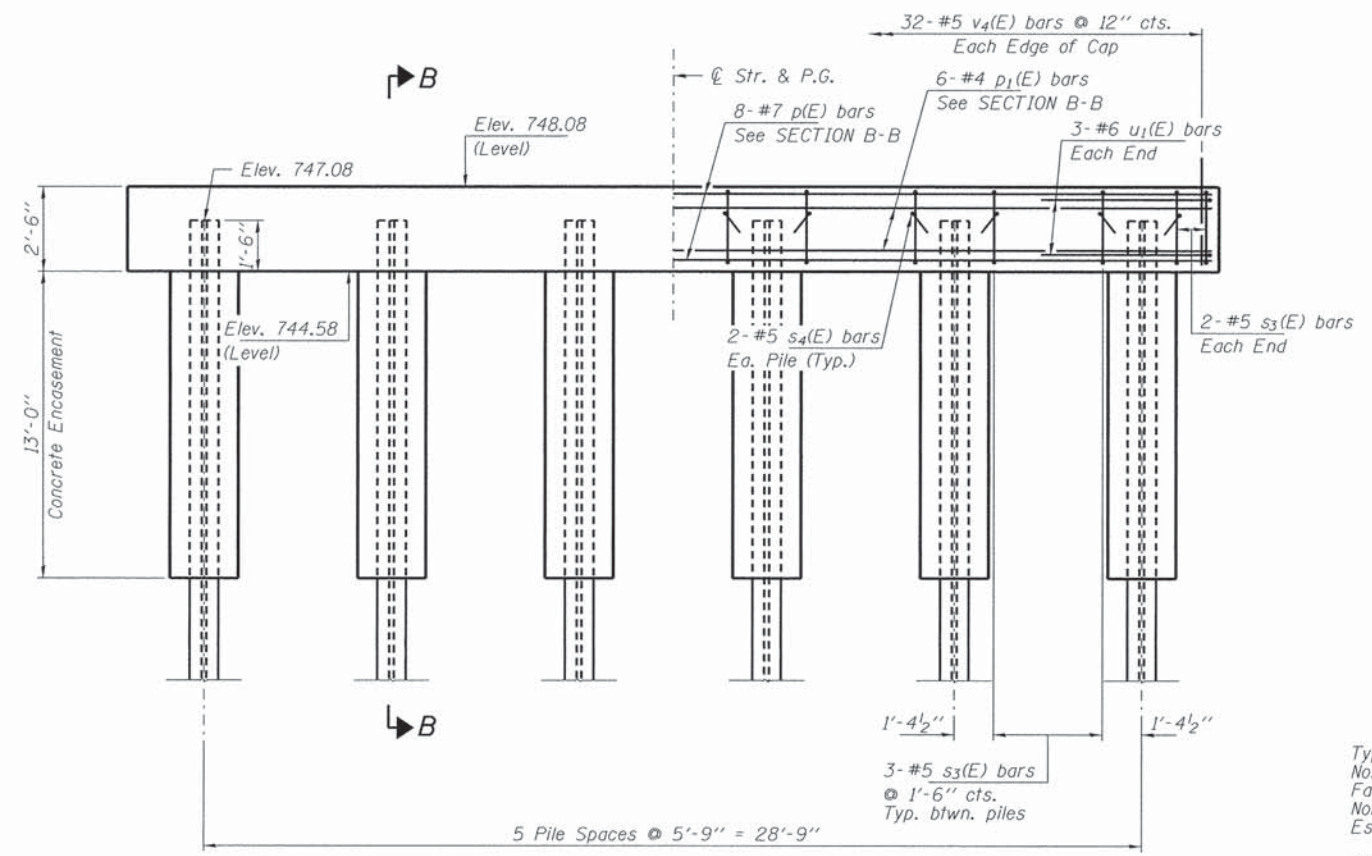
BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	32	#5	8'-3"	—
h <sub>1</sub> (E)	24	#5	6'-9"	—
p(E)	16	#7	31'-8"	—
p <sub>1</sub> (E)	20	#4	31'-8"	—
s <sub>1</sub> (E)	40	#5	12'-7"	□
s <sub>2</sub> (E)	20	#5	3'-8"	┌
u(E)	16	#6	12'-7"	—
v(E)	32	#4	4'-9"	—
v <sub>1</sub> (E)	16	#4	3'-9"	—
v <sub>2</sub> (E)	16	#4	2'-9"	—
v <sub>3</sub> (E)	192	#5	5'-0"	—
Protective Coat		Sq. Yd.		13
Concrete Structures		Cu. Yd.		29.6
Reinforcement Bars, Epoxy Coated		Pound		3,980
Furnishing Steel Piles HP10x42		Foot		405
Driving Piles		Foot		405
Test Pile Steel HP10x42		Each		1
Name Plates		Each		1

All bars shall be epoxy coated.

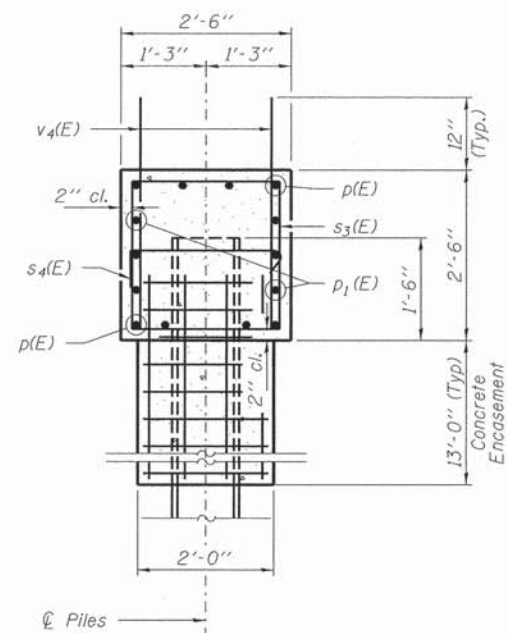




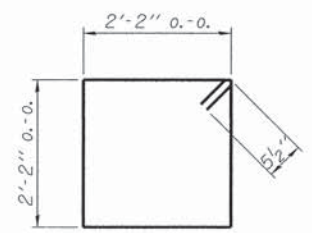
PLAN



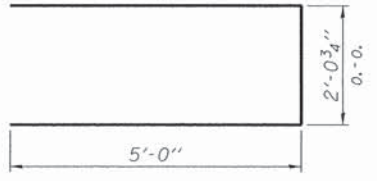
ELEVATION



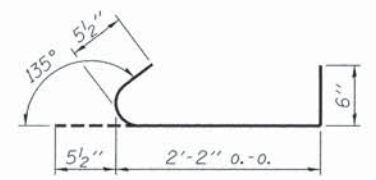
SECTION A-A



BAR s<sub>3</sub>(E)



BAR u<sub>1</sub>(E)



BAR s<sub>4</sub>(E)

PILE DATA

Type: Steel HPI0x42  
 No. Req'd. (2 Piers) \*12  
 Factored Resistance Available (RF) 140 Kips/Pile  
 Nominal Required Bearing (Rn) 280 Kips/Pile  
 Est. Length 60 Ft/Pile

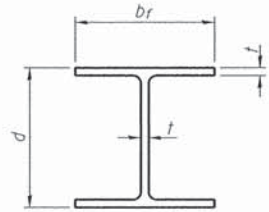
Notes: \* Includes one test pile to be driven in a permanent location at Pier 2.

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

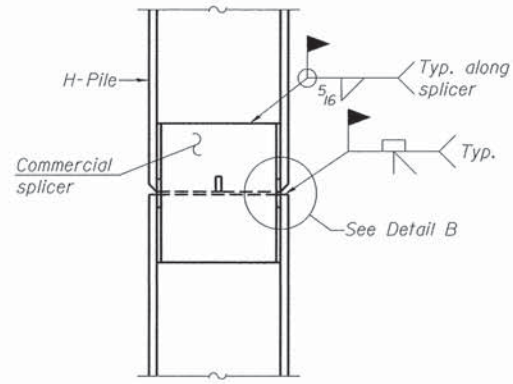
BAR	NO.	SIZE	LENGTH	SHAPE
p(E)	16	#7	31'-8"	—
p <sub>1</sub> (E)	12	#4	31'-8"	—
s <sub>3</sub> (E)	38	#5	9'-7"	□
s <sub>4</sub> (E)	24	#5	3'-2"	┌
u <sub>1</sub> (E)	12	#6	12'-1"	—
v <sub>4</sub> (E)	128	#5	3'-4"	—
Concrete Structures			Cu. Yd.	14.8
Concrete Encasement			Cu. Yd.	17.7
Reinforcement Bars, Epoxy Coated			Pound	2,410
Furnishing Steel Piles HPI0x42			Foot	660
Test Pile Steel HPI0x42			Each	1
Driving Piles			Foot	660
Cofferdam (Type 1) (Location-1)			Each	1
Cofferdam (Type 1) (Location-2)			Each	1

All bars shall be epoxy coated.

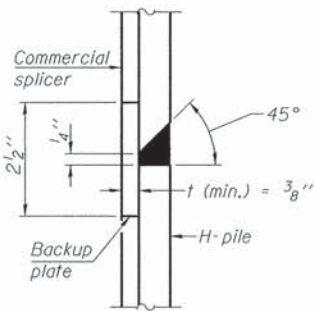


**STEEL PILE TABLE**

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"

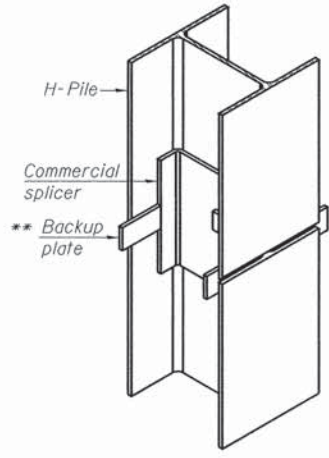


**ELEVATION**

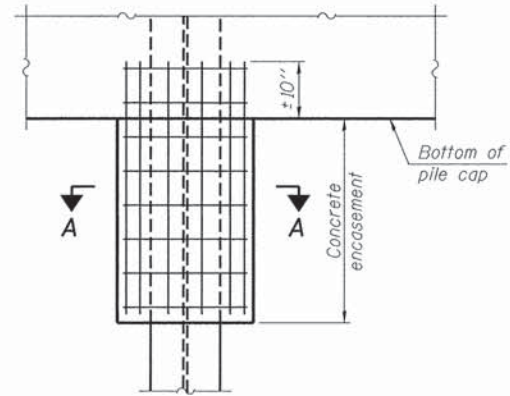


**DETAIL "B"**

**WELDED COMMERCIAL SPLICE**

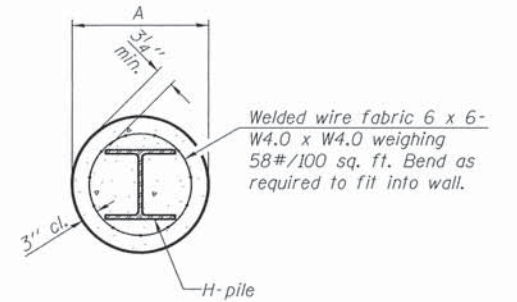


**ISOMETRIC VIEW**



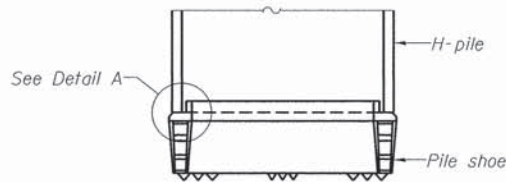
**ELEVATION**

**PILE ENCASEMENT**

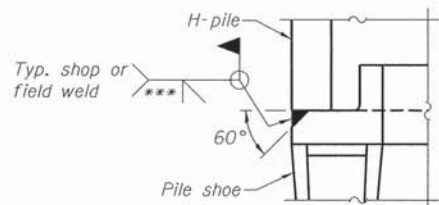


**SECTION A-A**

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

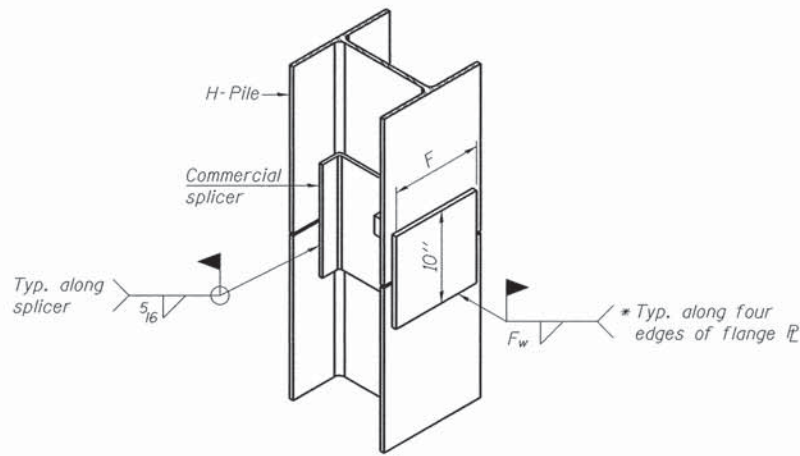


**ELEVATION**

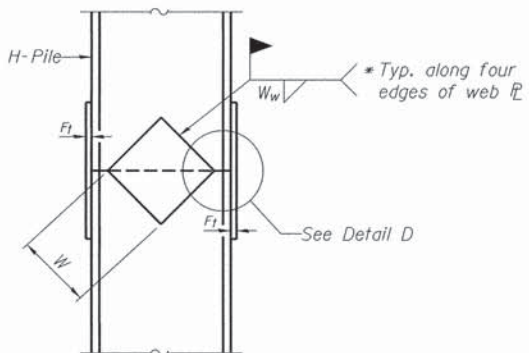


**DETAIL A**

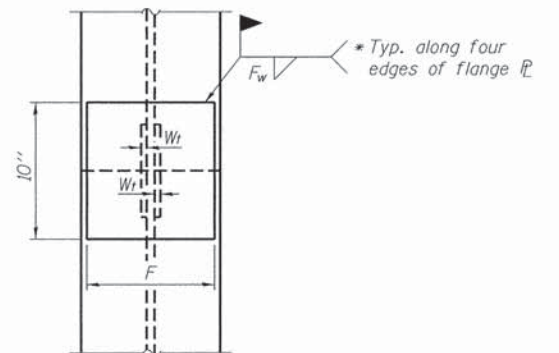
**H-PILE SHOE ATTACHMENT**



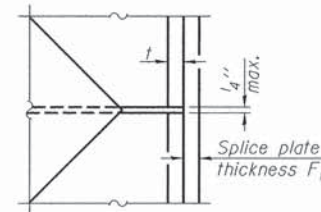
**ISOMETRIC VIEW**



**ELEVATION**



**END VIEW**



**DETAIL D**

**WELDED PLATE FIELD SPLICE**

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

**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.).

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

F-HP

1-27-12

FILE NAME = 148199-sht-br-ridge.dgn	USER NAME =	DESIGNED - T.J.A.	REVISED -	<b>STATE OF ILLINOIS McLEAN COUNTY HIGHWAY DEPARTMENT</b>	<b>HP PILE DETAILS STRUCTURE NO. 057-5734</b>	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 2045 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62761	PLOT SCALE =	CHECKED - S.W.M.	REVISED -			1477	13-00029-03-BR	McLEAN	36	18	
ILR ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE CORP. 184.000059	PLOT DATE = 12/18/2015	DRAWN - D.A.B.	REVISED -			ARTEMAN BRIDGE	CONTRACT NO. 91521				
		CHECKED - S.W.M.	REVISED -			ILLINOIS FED. AID PROJECT					

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 Ramsey Geotechnical Engineering  
 STRUCTURE BORING LOG

Page 1 of 1  
 Date 12/15/14

ROUTE CH 40 DESCRIPTION Arteman Bridge  
 SECT. \_\_\_\_\_ STRUCT. NO. 5712 DRILLED BY B. Williamson  
 COUNTY McLean LOCATION West Township S.13/24, TWP. 22N, RNG. 5E

Boring No.	Station	Offset	Surface Elev.	D	B	Qu	W	Surface Water Elev.	D	B	Qu	W
<u>B-1 West Abutment</u>	<u>(9+55)</u>	<u>ft</u>	<u>(750.1)</u> <u>99.70</u> ft	D E P T H	B L O S	Qu tsf	W %	Groundwater Elev.: when drilling at Completion after Hrs.	D E P T H	B L O S	Qu tsf	W %
Bituminous Pavement	99.40											
Stiff to medium stiff dark brown SILTY CLAY LOAM	(749.8)			3	P	21		(724.1) 73.70	3	S	22	
				4	1.5				6	2.09		
				4					8			
				6	P	22			3	B	20	
				3	2.0				4	3.19		
				3					9			
				1	P	26						
				2	0.75							
				2								
				3	P	17		(717.1) 66.70	5	B	15	
				2	0.75				5	1.89		
				3					9			
Medium dense brown fine to coarse SAND	(739.1) 88.70			3		13						
				7								
				11								
				8					6	P	12	
				11					11	3.0		
				11					14			
Stiff gray SILTY LOAM	(734.1) 83.70			3	B	11						
				4	1.11							
				4								
				4	B	11		(707.1) 56.70	5	B	11	
				6	1.64				6	3.24		
				8					8			
Very stiff to hard gray SILTY LOAM	(729.1) 78.70			4	S	10						
				7	3.19							
				10								
				6	B	15			6	B	10	
				9	4.47				9	5.33		
				11					14			
End of Boring at 50.0'	(700.1) 49.70											

SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations. Depths, Offset, and Elevations are in Feet

**BORING B-1**

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 Ramsey Geotechnical Engineering  
 STRUCTURE BORING LOG

Page 1 of 1  
 Date 12/15/14

ROUTE CH 40 DESCRIPTION Arteman Bridge  
 SECT. \_\_\_\_\_ STRUCT. NO. 5712 DRILLED BY B. Williamson  
 COUNTY McLean LOCATION West Township S.13/24, TWP. 22N, RNG. 5E

Boring No.	Station	Offset	Surface Elev.	D	B	Qu	W	Surface Water Elev.	D	B	Qu	W
<u>B-2 East Abutment</u>	<u>(10+45)</u>	<u>ft</u>	<u>(749.9)</u> <u>99.60</u> ft	D E P T H	B L O S	Qu tsf	W %	Groundwater Elev.: when drilling at Completion after Hrs.	D E P T H	B L O S	Qu tsf	W %
Bituminous Pavement	99.30											
Very stiff to stiff dark brown SILTY CLAY LOAM	(749.7)			3	P	25		(724.0) 73.60	5	S	22	
				3	2.0				5	2.05		
				3					8			
				2	P	24			4	B	25	
				3	1.5				5	2.38		
				3					10			
				2	P	33						
				1	0.25							
				2								
				1	P	25		(717.0) 66.60	4	B	14	
				1	0.5				4	1.60		
				1					6			
Concrete Fragments	(739.0) 88.60			4								
				3								
				4								
				50/5"					9	P	11	
									12	4.5+		
									12			
Hard gray SILTY LOAM	(734.0) 83.60			3	P	10						
				4	4.5+							
				5								
				6	B	9			6	B	12	
				7	6.19				9	2.75		
				10					17			
				6	P	11						
				10	4.5+							
				12								
				7	P	9			12	B	12	
				11	4.5+				12	5.70		
				11					15			
End of Boring at 50.0'	(700.0) 49.60											

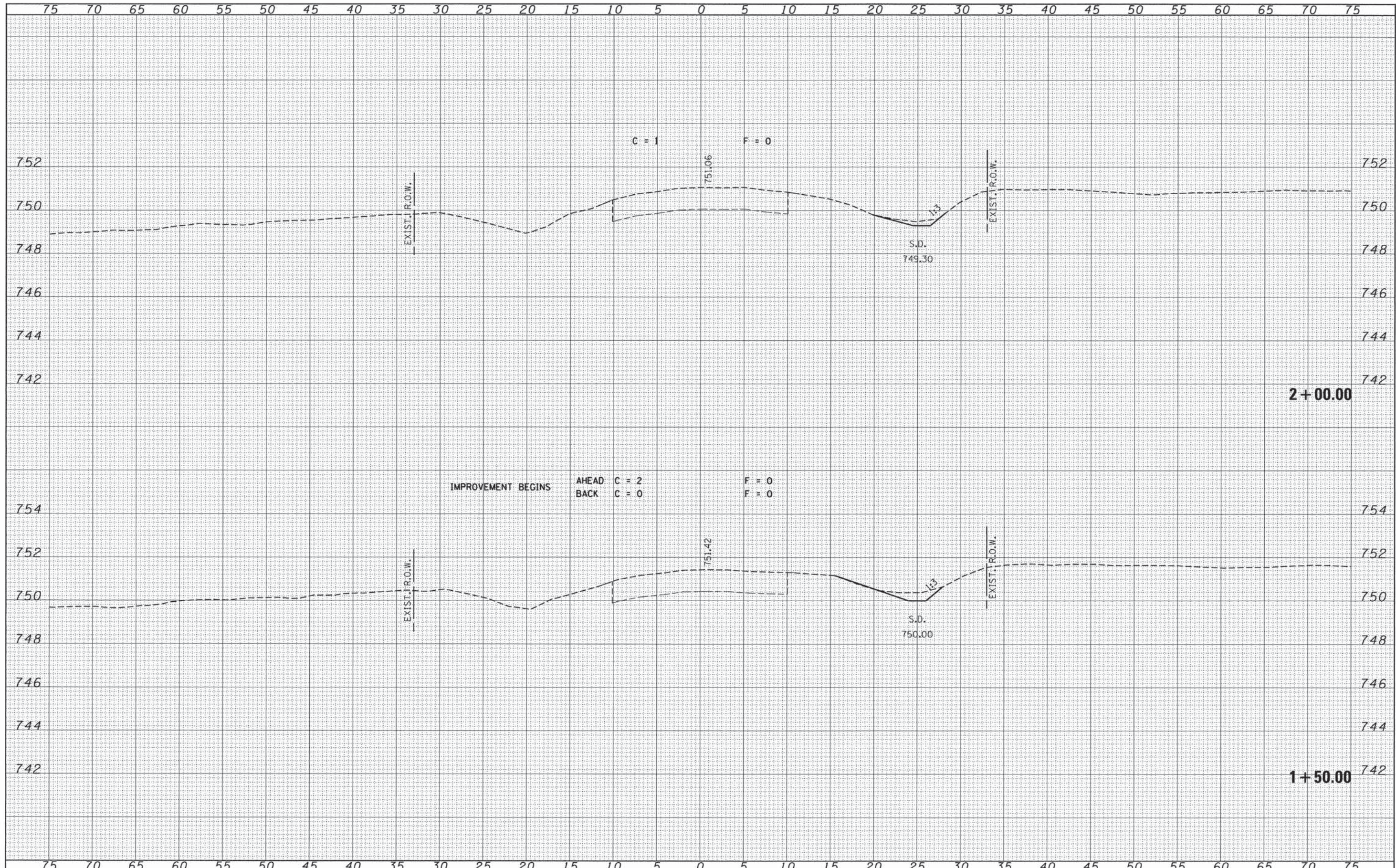
SPT. (N) = Sum of last two blow values in sample. (Qu) B=Bulge S=Shear P=Penetration Test Stations. Depths, Offset, and Elevations are in Feet

**BORING B-2**



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

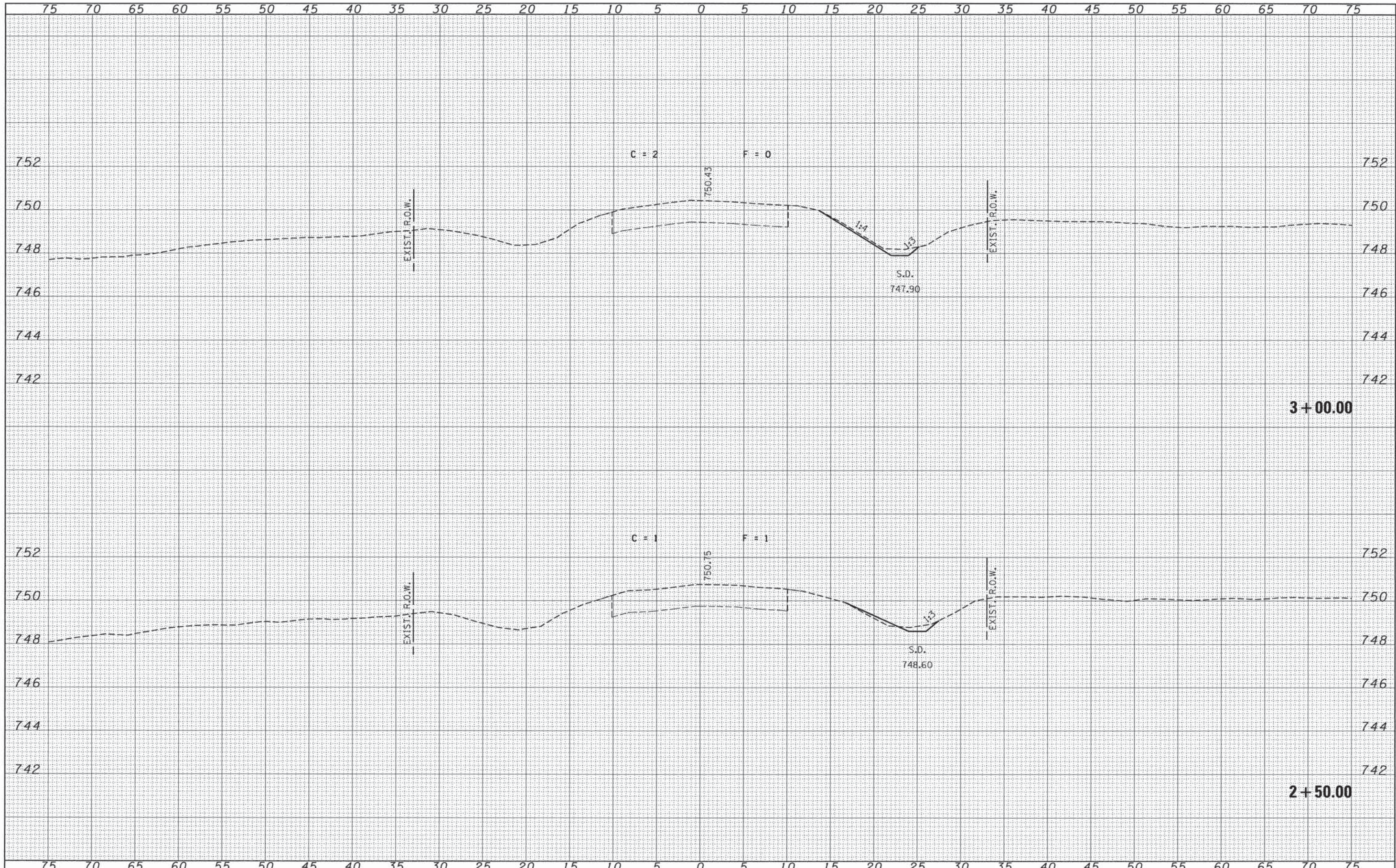
DATE	
BY	
ORIGINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
	TEMPLATE
	AREAS CHECKED



FILE NAME = 140199-sht-sss.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	<b>STATE OF ILLINOIS</b> <b>McLEAN COUNTY HIGHWAY DEPARTMENT</b>	<b>STATION CROSS SECTIONS</b> <b>C.H. 40 / ROCK ROAD</b>		F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>HAMPTON, LENZINI AND RENWICK, INC.</b> 3800 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62781 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000059	PLOT SCALE =	DRAWN - T.W.K.	REVISED -		1477	13-00029-03-BR	McLEAN	36	21		
PLOT DATE = 12/10/2015	DATE - 02/10/15	CHECKED - S.W.M.	REVISED -		SCALE: 5H:2V		SHEET NO. OF SHEETS		CONTRACT NO. 91521		
		DATE - 02/10/15	REVISED -		STA. 1+50.00 TO STA. 2+00.00		ILLINOIS FED. AID PROJECT				

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

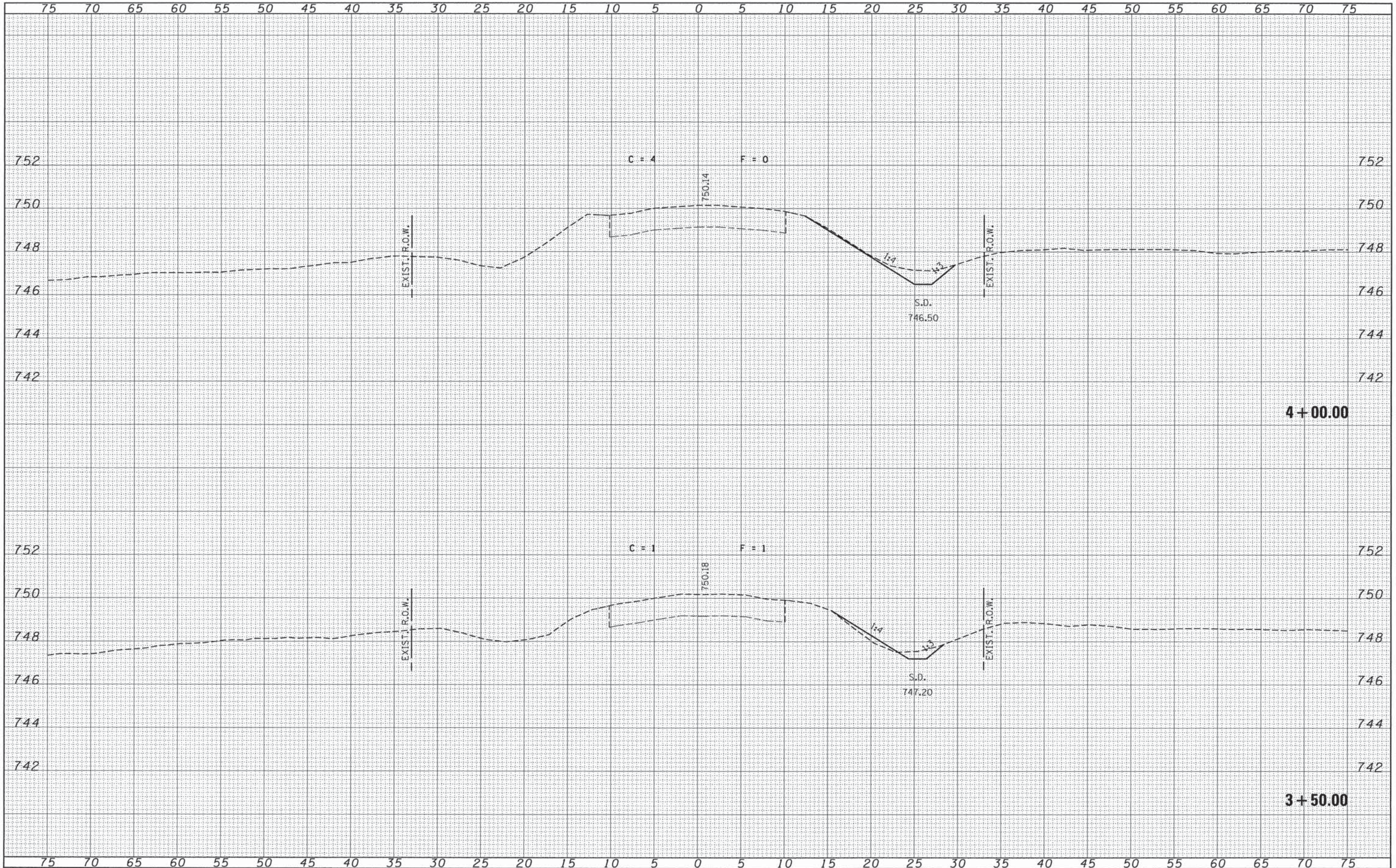
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NOTE BOOK	
NO.	
AREAS CHECKED	



FILE NAME = 148199-sht-ssx.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	<b>STATE OF ILLINOIS</b> <b>McLEAN COUNTY HIGHWAY DEPARTMENT</b>	<b>STATION CROSS SECTIONS</b> <b>C.H. 40 / ROCK ROAD</b>			F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISED -		1477	13-00029-03-BR	McLEAN	36	22			
3095 STEVENSON DRIVE, SUITE 201		CHECKED - S.W.M.	REVISED -		ARTEMAN BRIDGE		CONTRACT NO.	91521				
SPRINGFIELD, ILLINOIS 62767		DATE - 02/10/15	REVISED -		ILLINOIS FED. AID PROJECT							
ILLINOIS PROFESSIONAL DESIGN FIRM				SCALE: 5H:2V	SHEET NO.	OF	SHEETS	STA. 2+50.00	TO STA. 3+00.00			

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

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



FILE NAME = 140199-sht-rxs.dgn  
 HAMPSON, LENZINI AND RENWICK, INC.  
 3090 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62761  
 ILLINOIS PROFESSIONAL DESIGN FIRM  
 LB / PE / SE CORP. 184.000989

USER NAME =  
 DESIGNED - J.W.F.  
 DRAWN - T.W.K.  
 CHECKED - S.W.M.  
 DATE - 02/10/15  
 PLOT SCALE =  
 PLOT DATE = 12/18/2015

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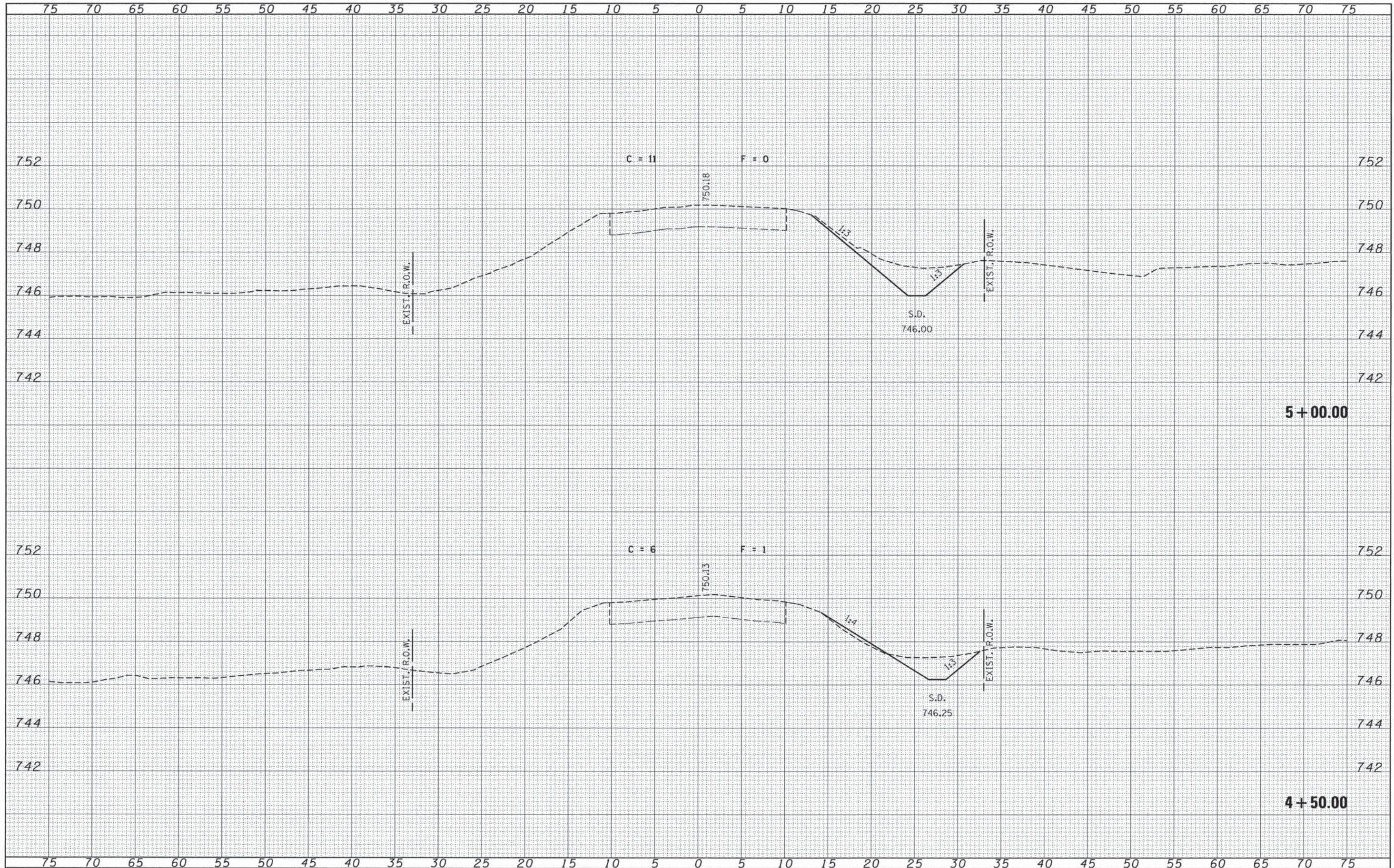
STATE OF ILLINOIS  
 McLEAN COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS  
 C.H. 40 / ROCK ROAD  
 SCALE: 5H:2V  
 SHEET NO. OF SHEETS STA. 3+50.00 TO STA. 4+00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1477	13-00029-03-BR	McLEAN	36	23
ARTEMAN BRIDGE			CONTRACT NO. 91521	
ILLINOIS FED. AID PROJECT				

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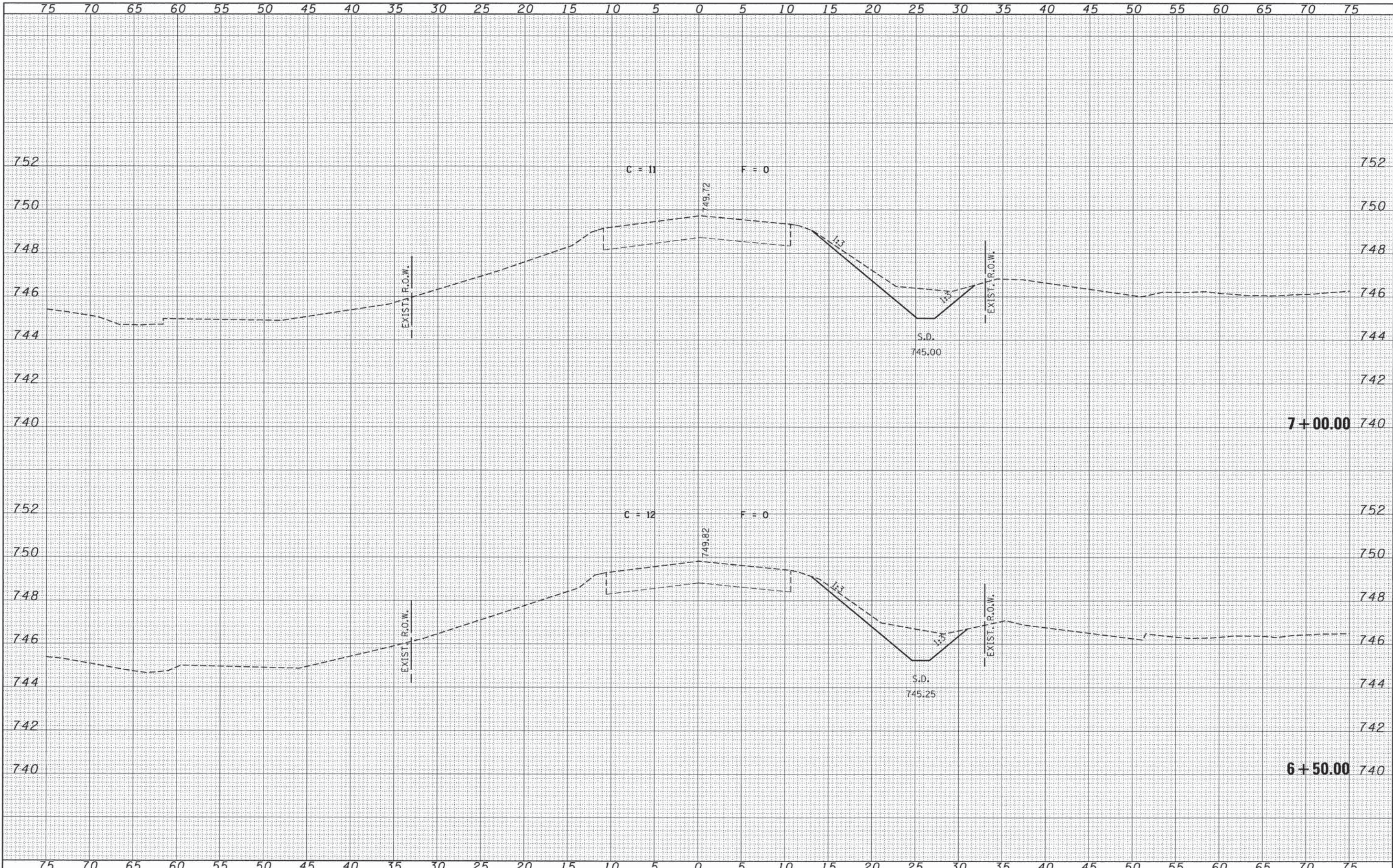
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NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
	AREAS CHECKED	



FILE NAME = 140199-sht-sxs.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	<b>STATE OF ILLINOIS McLEAN COUNTY HIGHWAY DEPARTMENT</b>	<b>STATION CROSS SECTIONS C.H. 40 / ROCK ROAD</b>		F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
<b>HAMPTON, LENZINI AND RENWICK, INC.</b> 3890 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62763 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000893	PLOT SCALE =	DRAWN - T.W.K.	REVISED -		SCALE: 5H:2V	SHEET NO.	OF SHEETS	1477	13-00029-03-BR	McLEAN	36	24
	PLOT DATE = 12/10/2015	CHECKED - S.W.M.	REVISED -		STA. 4+50.00	TO STA. 5+00.00	ARTEMAN BRIDGE	CONTRACT NO. 91521		ILLINOIS FED. AID PROJECT		
		DATE - 02/10/15	REVISED -									







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

DATE	
BY	
ORIGINAL SURVEY	
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NOTE BOOK	
TEMPLATE	
AREAS CHECKED	
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FILE NAME = 140199-ahf-sxs.dgn  
 HAMPSON, LENZINI AND RENWICK, INC.  
 3885 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62761  
 ILLINOIS PROFESSIONAL DESIGN FIRM  
 L3 / PE / SE CORP. 184,000929

USER NAME =  
 DESIGNED - J.W.F.  
 DRAWN - T.W.K.  
 CHECKED - S.W.M.  
 DATE - 02/10/15  
 PLOT SCALE =  
 PLOT DATE = 12/10/2015

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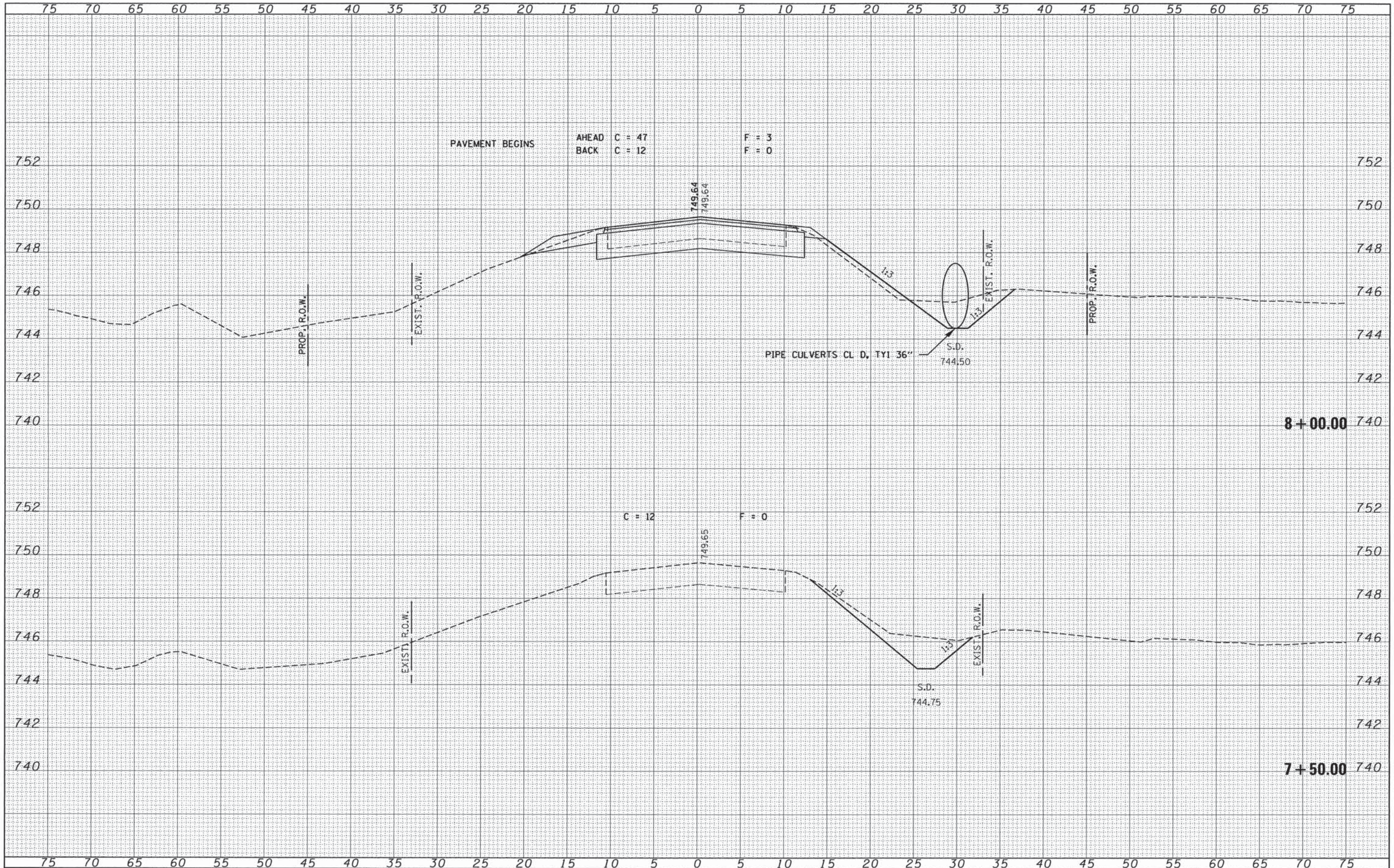
STATE OF ILLINOIS  
 McLEAN COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS  
 C.H. 40 / ROCK ROAD  
 SCALE: 5H:2V  
 SHEET NO. OF SHEETS STA. 6+50.00 TO STA. 7+00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1477	13-00029-03-BR	McLEAN	36	26
ARTEMAN BRIDGE			CONTRACT NO. 91521	
ILLINOIS FED. AID PROJECT				

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

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



FILE NAME = 148199-sht-sxs.dgn  
 HAMPTON, LENZINI AND RENWICK, INC.  
 3085 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62763  
 ILLINOIS PROFESSIONAL DESIGN FIRM  
 LS / PE / SE CORP. 184.000958

USER NAME =  
 DESIGNED - J.W.F.  
 DRAWN - T.W.K.  
 CHECKED - S.W.M.  
 DATE - 02/10/15  
 PLOT SCALE =  
 PLOT DATE = 12/10/2015

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STATE OF ILLINOIS  
 McLEAN COUNTY HIGHWAY DEPARTMENT

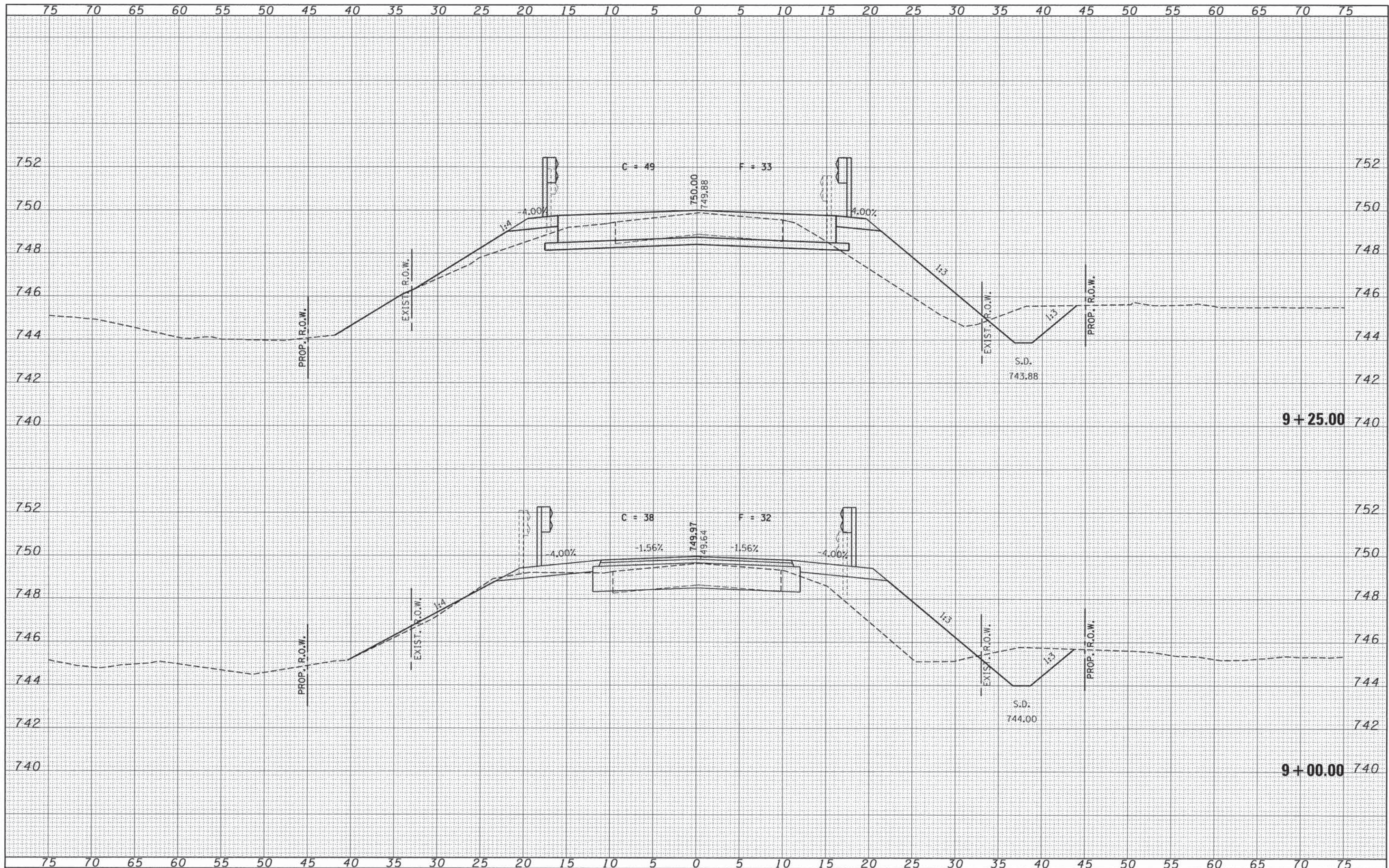
STATION CROSS SECTIONS  
 C.H. 40 / ROCK ROAD  
 SCALE: 5H:2V  
 SHEET NO. OF SHEETS STA. 7+50.00 TO STA. 8+00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1477	13-00029-03-BR	McLEAN	36	27
ARTEMAN BRIDGE			CONTRACT NO. 91521	
ILLINOIS FED. AID PROJECT				



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

ORIGINAL SURVEY	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	TEMPLATE	
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FILE NAME = 140199-shr-sxs.dgn  
 HAMPSON, LENZINI AND RENWICK, INC.  
 3090 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62763  
 ILLINOIS PROFESSIONAL DESIGN FIRM  
 LS / PE / SE CORP. 184.000959

USER NAME =  
 PLOT SCALE =  
 PLOT DATE = 12/10/2015

DESIGNED - J.W.F.  
 DRAWN - T.W.K.  
 CHECKED - S.W.M.  
 DATE - 02/10/15

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STATE OF ILLINOIS  
 McLEAN COUNTY HIGHWAY DEPARTMENT

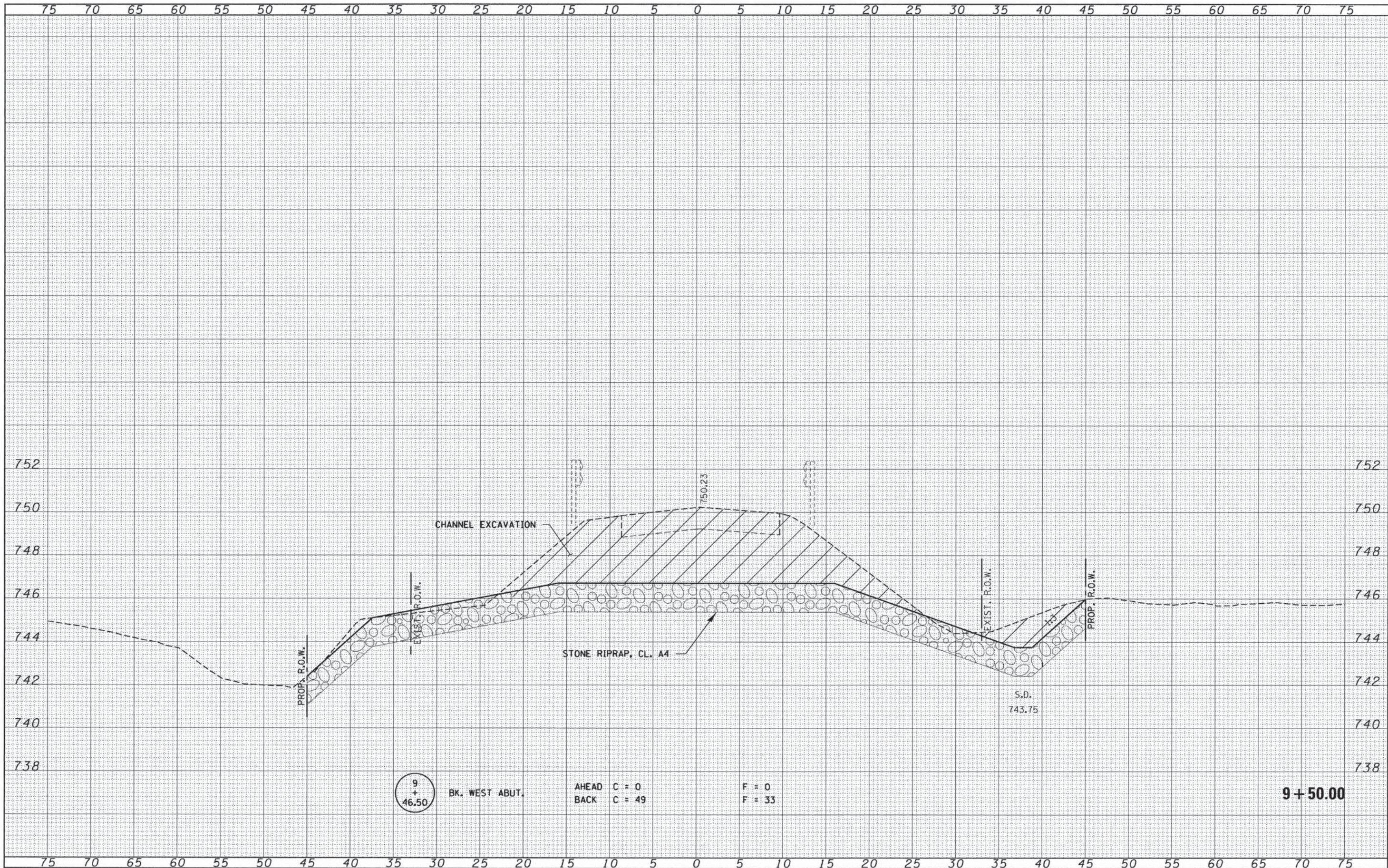
STATION CROSS SECTIONS  
 C.H. 40 / ROCK ROAD

SCALE: 5H:2V SHEET NO. OF SHEETS STA. 9+00.00 TO STA. 9+25.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1477	13-00029-03-BR	McLEAN	36	29
ARTEMAN BRIDGE		CONTRACT NO. 91521		ILLINOIS FED. AID PROJECT

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

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



FILE NAME = 140199-ahf-sxs.dgn  
 HAMPTON, LENZINI AND RENWICK, INC.  
 3885 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62761  
 ILLINOIS PROFESSIONAL DESIGN FIRM  
 LS / PE / SE CORP. 184,000959

USER NAME =  
 DESIGNED - J.W.F.  
 DRAWN - T.W.K.  
 CHECKED - S.W.M.  
 DATE - 02/10/15  
 PLOT SCALE =  
 PLOT DATE = 12/10/2015

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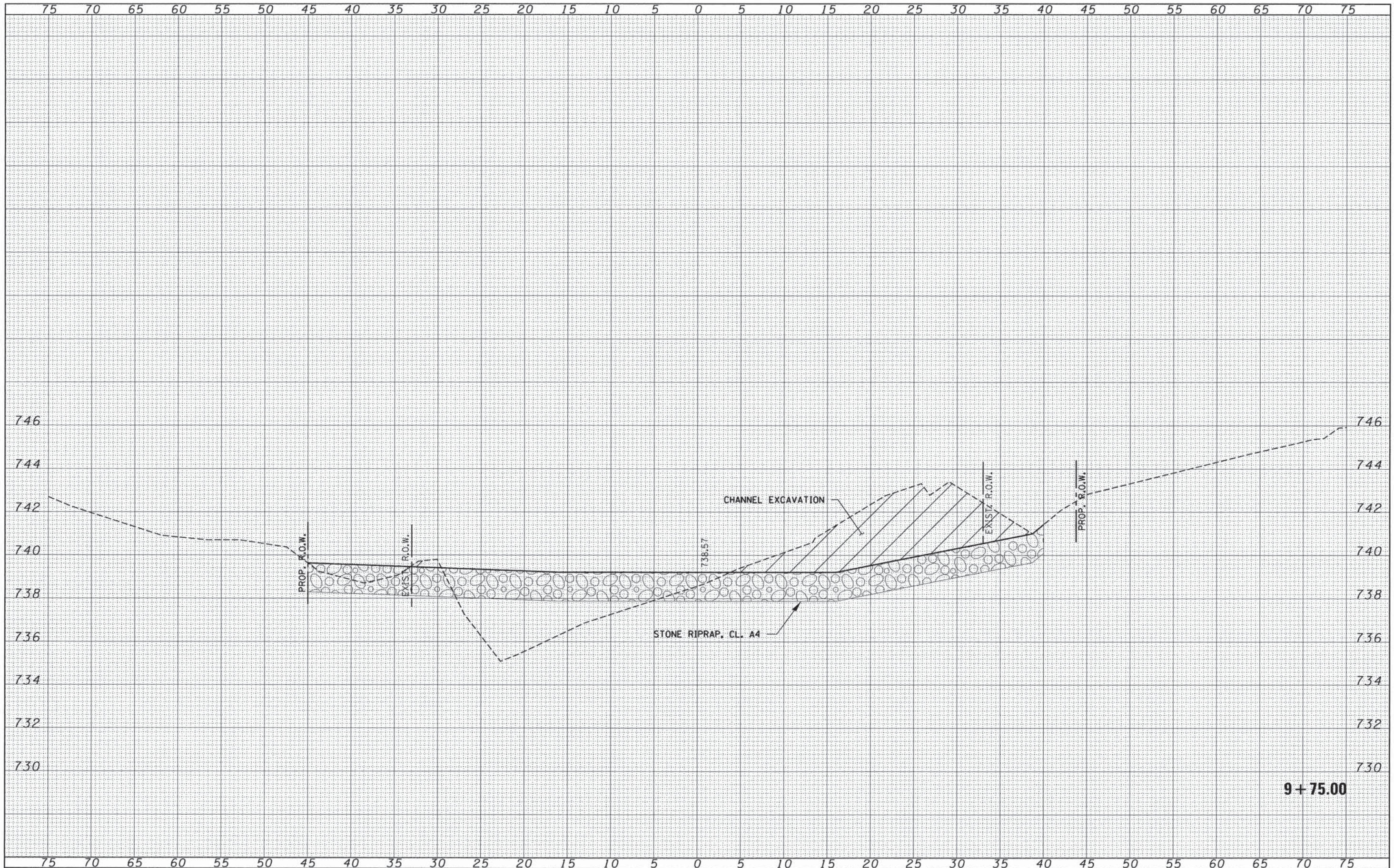
STATE OF ILLINOIS  
 McLEAN COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS  
 C.H. 40 / ROCK ROAD  
 SCALE: 5H:2V  
 SHEET NO. OF SHEETS STA. 9+50.00 TO STA. 9+50.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1477	13-00029-03-BR	McLEAN	36	30
ARTEMAN BRIDGE		CONTRACT NO. 91521		
ILLINOIS FED. AID PROJECT				

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

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



FILE NAME = 140199-sht-svs.dgn  
 HAMPSON, LENZINI AND RENWICK, INC.  
 3085 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62763  
 ILLINOIS PROFESSIONAL DESIGN FIRM  
 LS / PE / SE CORP. 184,000658

USER NAME =  
 PLOT SCALE =  
 PLOT DATE = 12/18/2015

DESIGNED - J.W.F.  
 DRAWN - T.W.K.  
 CHECKED - S.W.M.  
 DATE - 02/10/15

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STATE OF ILLINOIS  
 McLEAN COUNTY HIGHWAY DEPARTMENT

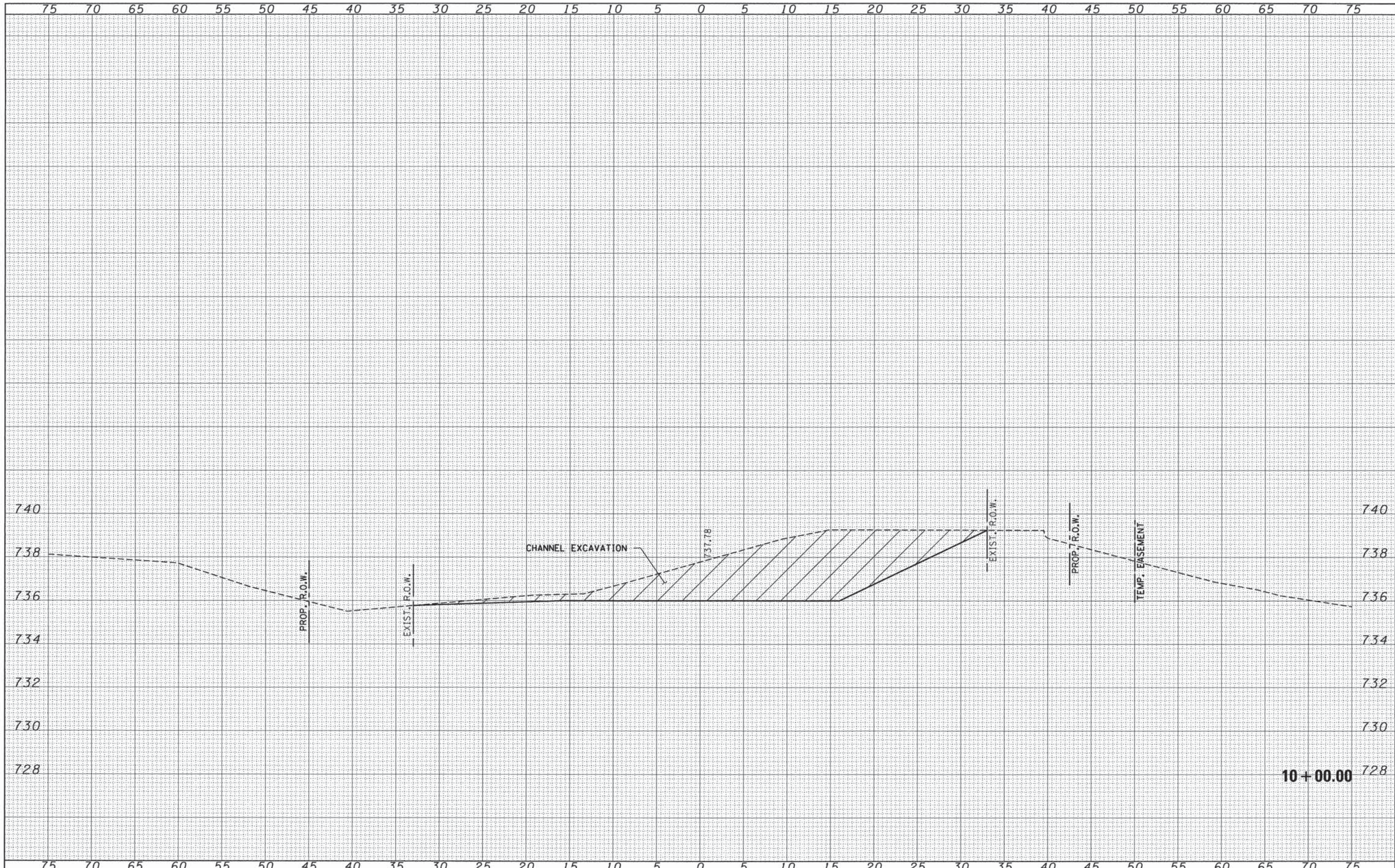
STATION CROSS SECTIONS  
 C.H. 40 / ROCK ROAD  
 SCALE: 5H:2V  
 SHEET NO. OF SHEETS STA. 9+75.00 TO STA. 9+75.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1477	13-00029-03-BR	McLEAN	36	31
ARTEMAN BRIDGE		CONTRACT NO. 91521		ILLINOIS FED. AID PROJECT

9+75.00

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

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



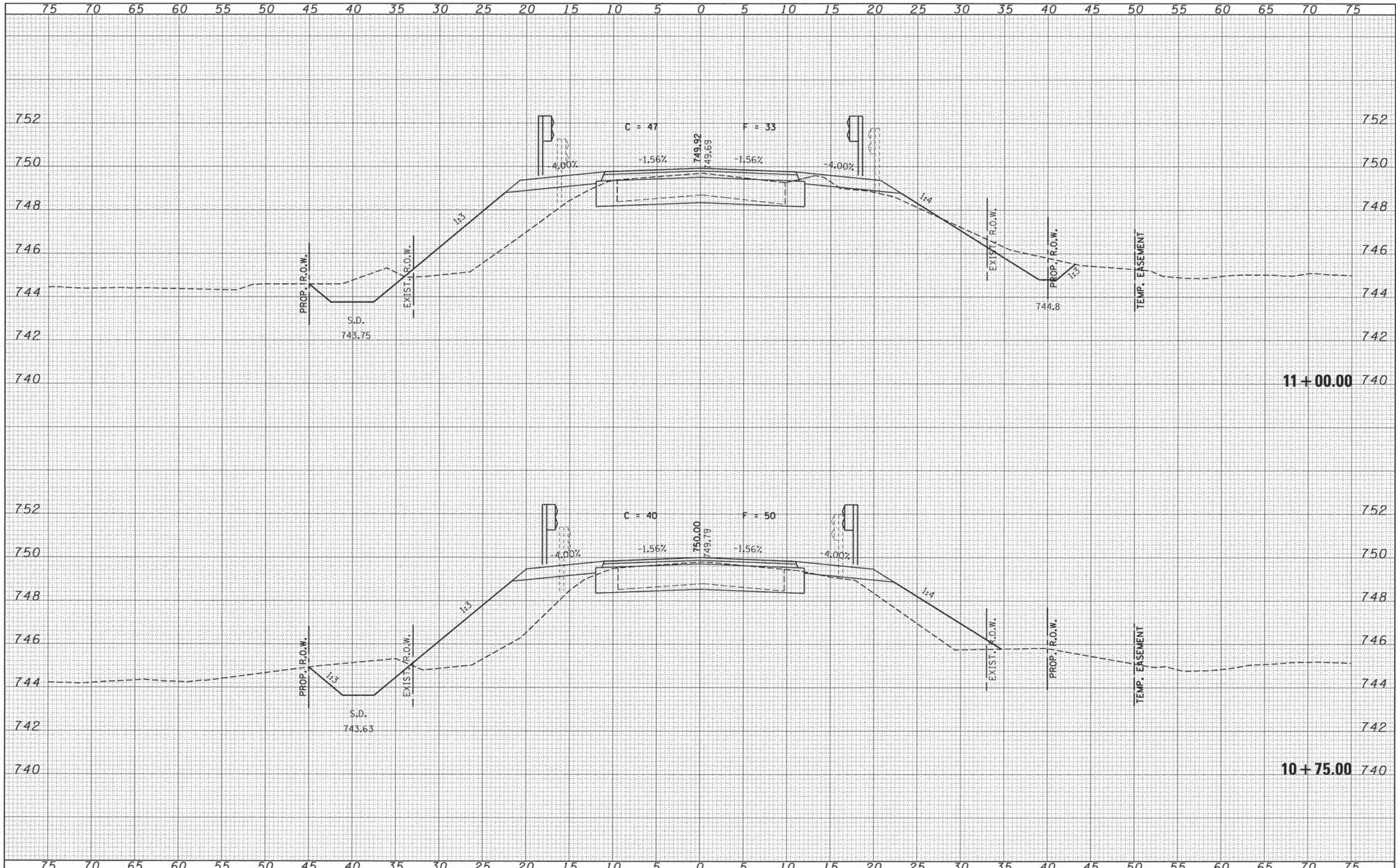
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<b>HLR</b> HAMPTON, LENZINI AND RENWICK, INC. 3695 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62763 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184,00069	PLOT SCALE =	DRAWN - T.W.K.	REVISED -		1477	13-00029-03-BR	McLEAN	36	32		
PLOT DATE = 12/18/2015	DATE - 02/10/15	CHECKED - S.W.M.	REVISED -		SCALE: 5H:2V		SHEET NO. OF SHEETS		CONTRACT NO. 91521		
		DATE - 02/10/15	REVISED -		STA. 10+00.00 TO STA. 10+00.00		ILLINOIS FED. AID PROJECT				





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FINAL SURVEY	
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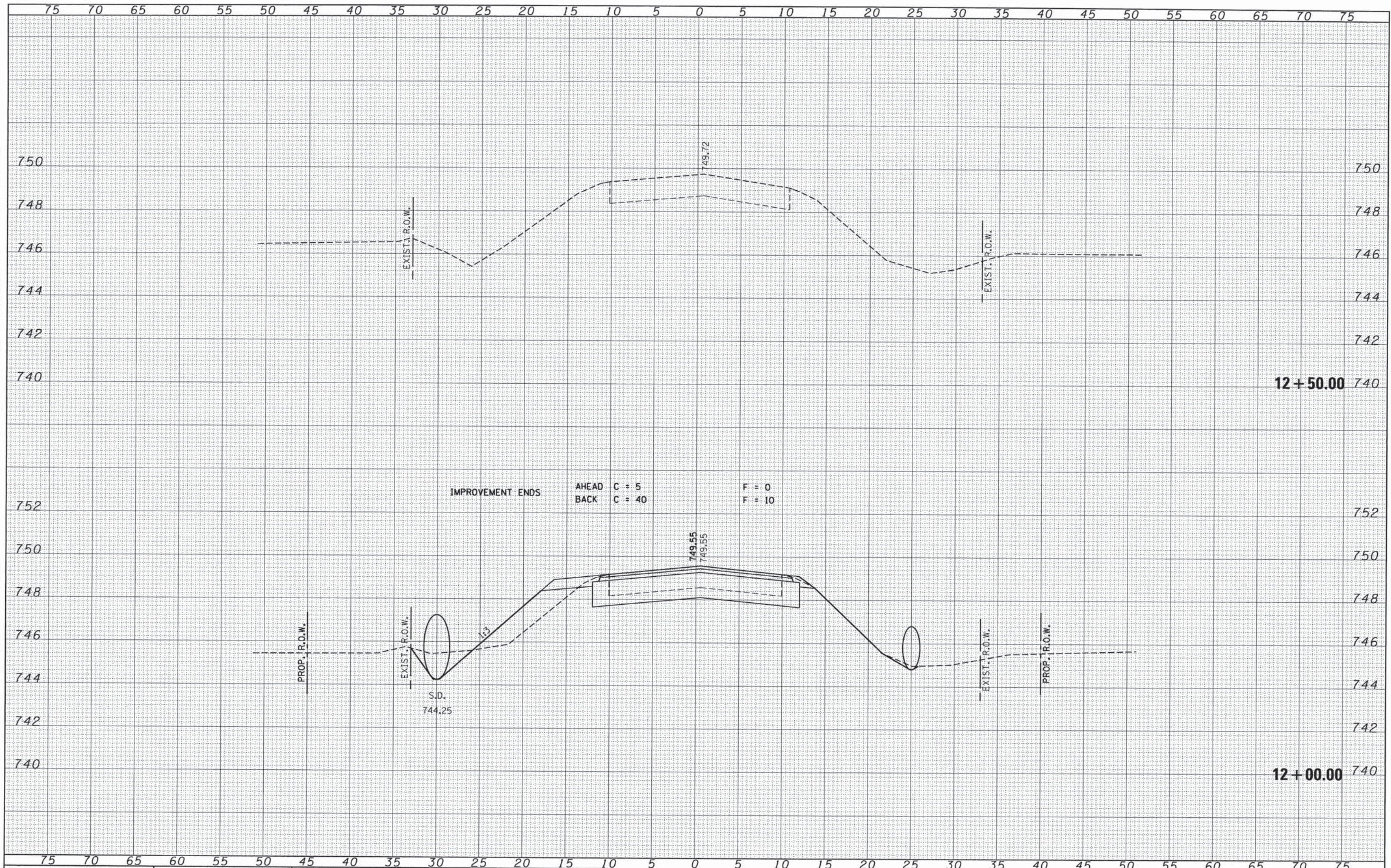


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<b>HAMPTON, LENZINI AND RENWICK, INC.</b> 2005 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62761 ILLINOIS PROFESSIONAL DESIGN FIRM L7/PE/SE CORP. 184.000959	PLLOT SCALE =	DRAWN - T.W.K.	REVISED -		1477	13-00029-03-BR	McLEAN	36	34			
PLLOT DATE = 12/18/2015		CHECKED - S.W.M.	REVISED -		ARTEMAN BRIDGE			CONTRACT NO. 91521				
		DATE - 02/10/15	REVISED -		ILLINOIS FED. AID PROJECT							
					SCALE: 5H:2V	SHEET NO. OF SHEETS	STA. 10+50.00 TO STA. 10+75.00					



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FINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
	TEMPLATE
	AREAS CHECKED



FILE NAME = 148199-sht-sxs.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	<b>STATE OF ILLINOIS</b> <b>McLEAN COUNTY HIGHWAY DEPARTMENT</b>	<b>STATION CROSS SECTIONS</b> <b>C.H. 40 / ROCK ROAD</b>		F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
<b>HAMPTON, LENZINI AND RENWICK, INC.</b> 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62761 ILLINOIS PROFESSIONAL DESIGN FIRM 15 / PE / SE CORP. 184.000969	PLOT SCALE =	DRAWN - T.W.K.	REVISED -		1477	13-00029-03-BR	McLEAN	36	36		
PLOT DATE = 12/18/2015	DATE - 02/10/15	CHECKED - S.W.M.	REVISED -		SCALE: 5H:2V		SHEET NO. OF SHEETS		CONTRACT NO. 91521		
		DATE - 02/10/15	REVISED -		STA. 12+00.00 TO STA. 12+50.00		ILLINOIS FED. AID PROJECT				