06-15-12 LETTING ITEM 073

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 91	09-06122 -00-BR	JEFFERSON	37	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 99471	

INDEX OF SHEETS

HIGHWAY STANDARDS:

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-06	TEMPORARY EROSION CONTROL SYSTEMS
515001-03	NAME PLATE FOR BRIDGES
635006-03	REFLECTOR AND TERMINAL MARKER PLACEMENT
701901-02	TRAFFIC CONTROL DEVICES
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 23-4	TRAFFIC BARRIER TERMINAL, TYPE 1
BLR 27-1	TRAFFIC BARRIER TERMINAL, TYPE 5A

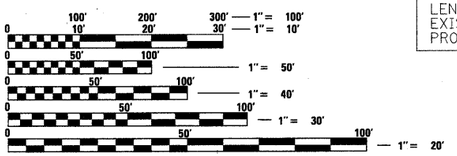
UTILITIES

ELECTRIC:
TRI-COUNTY ELECTRIC COOPERATIVE
3906 BROADWAY
MT. VERNON, IL 62864
ATTN: DENNIS IVERS

TELEPHONE:
AT&T / DISTRIBUTION
210 NORTH LOCUST
FLOOR 2
CENTRALIA, IL 62801

WATER:
NORTHEAST WATER CO.
1018 JORDAN ST.
MT. VERNON, IL 62864
ATTN: THADDEUS STALEY

PETROLEUM:
COUNTY MARK COOPERATIVE
1200 REFINERY ROAD
MT. VERNON, IN 47620
ATTN: JIM CRUISE



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

CONTRACT NO. 99471

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED HIGHWAY BRIDGE PROGRAM

PROJECT BROS-0081(063)
SECTION 09-06122-00-BR
FARRINGTON ROAD DISTRICT
JEFFERSON COUNTY
T.R. 91 / MALECKI ROAD
PROPOSED STRUCTURE NO. 041-3748
PROPOSED STRUCTURE NO. 041-5077
C-99-530-10

LOCATION OF SECTION INDICATED THUS: –

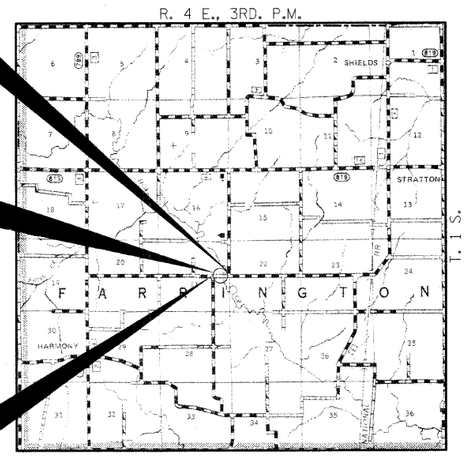
FUNCTIONAL CLASSIFICATION: LOCAL ROAD (NON-URBAN)
DESIGN SPEED: 30 MPH
DESIGN TRAFFIC: 150 ADT

IMPROVEMENT ENDS STATION 21+50

STA. 18+81
PRECAST PRESTRESSED CONCRETE DECK BEAM BRIDGE, THREE SPANS: 30'-0", 40'-0", 30'-0"
24'-0" RDWY.; SKEW = 10°
EXISTING STRUCTURE NO. 041-3073
PROPOSED STRUCTURE NO. 041-3748

STA. 13+60
DOUBLE 12'X9' PRECAST CONCRETE BOX CULVERT W/BOX CULVERT END SECTIONS
LENGTH = 30'-0"; SKEW = 0°
EXISTING STRUCTURE NO. 041-5000
PROPOSED STRUCTURE NO. 041-5077

IMPROVEMENT BEGINS STATION 12+50



LOCATION MAP

APPROXIMATE SCALE: 0 — 1 MILE

NET LENGTH OF SECTION = 900 FEET = 0.170 MILES

WARNING

CALL J.U.L.I.E. TOLL FREE 1-800-892-0123

CALL 811 BEFORE YOU DIG

DIG NO: X2221217

ILLINOIS DEPARTMENT OF TRANSPORTATION

APPROVED 3-1 20 12
COUNTY ENGINEER

APPROVED 3-8 20 12
TOWNSHIP COMMISSIONER

PASSED 3/13 20 12
DISTRICT NINE ENGINEER OF LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review 3/13 20 12
DEPUTY DIRECTOR OF HIGHWAYS
REGION FIVE ENGINEER
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DATE: 2/23/2012

LICENSED PROFESSIONAL ENGINEER — STEVEN W. MEGGINSON — 062-060051 — STATE OF ILLINOIS

EXPIRES: 11/30/2013

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

PROJECT NUMBER: 11.0286.130 DATE: 02/20/12

SUMMARY OF QUANTITIES

	CODE NO.	ITEM	CONSTRUCTION CODE 0011 UNIT	TOTAL
	20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	336
	20200100	EARTH EXCAVATION	CU YD	535
	20300100	CHANNEL EXCAVATION	CU YD	660
	20700110	POROUS GRANULAR EMBANKMENT	TON	450
^	21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	1870
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	160
^	28000305	TEMPORARY DITCH CHECKS	FOOT	70
	28000400	PERIMETER EROSION BARRIER	FOOT	1150
	28100807	STONE DUMPED RIPRAP, CLASS A4	TON	860
^	40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	795
^	50100300	REMOVAL OF EXISTING STRUCTURES NO. 1	EACH	1
^	50100400	REMOVAL OF EXISTING STRUCTURES NO. 2	EACH	1
	50200100	STRUCTURE EXCAVATION	CU YD	300
	50201101	COFFERDAM (TYPE 1) (LOCATION - 1)	EACH	1
	50201102	COFFERDAM (TYPE 1) (LOCATION - 2)	EACH	1
	50300225	CONCRETE STRUCTURES	CU YD	42.8
	50300280	CONCRETE ENCASEMENT	CU YD	14.8
	50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	2400
	50800105	REINFORCEMENT BARS	POUND	4300
*	50900205	STEEL RAILING, TYPE S1	FOOT	257
	51201400	FURNISHING STEEL PILES HP10X42	FOOT	336
	51202305	DRIVING PILES	FOOT	160
	51500100	NAME PLATES	EACH	2
^	54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	4

^ SEE SPECIAL PROVISIONS

SUMMARY OF QUANTITIES

	CODE NO.	ITEM	CONSTRUCTION CODE 0011 UNIT	TOTAL
*	63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	2
	67100100	MOBILIZATION	L SUM	1
*	78200410	GUARDRAIL MARKERS, TYPE A	EACH	2
*	78201000	TERMINAL MARKER - DIRECT APPLIED	EACH	8
* ^	LR631020	TRAFFIC BARRIER TERMINAL, TYPE 1	EACH	2
^	X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.8
^	X5401209	PRECAST CONCRETE BOX CULVERTS 12' X 9' (SPECIAL)	FOOT	52
^	Z0065000	SETTING PILES IN ROCK	EACH	8

^ SEE SPECIAL PROVISIONS

* SPECIALTY ITEMS

GENERAL NOTES

1. 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.

2. ALL CLEARING AND GRUBBING, FENCE REMOVAL AND REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. THE REMOVAL OF THE EXISTING 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. PROPOSED DISPOSAL OF BITUMINOUS MATERIAL SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

3. THE LOCATION OF EXISTING GAS MAINS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATION AND THE BEST INFORMATION AVAILABLE, BUT THE LOCATIONS ARE NOT GUARANTEED. IT SHALL BE BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE INDIVIDUAL COMPANIES AND BY FIELD INSPECTION.

4. 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 MONUMENTS UNTIL AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING AN AUTHORIZED SURVEYOR REESTABLISH ANY ANY SECTION OR SUBSECTION MONUMENTS DESTROYED BY HIS OPERATIONS.

5. THE REVISION NUMBER INDICATED FOR THE STANDARDS LISTED IN THE INDEX OF SHEETS SHALL BE USED IN THE CONSTRUCTION OF THIS SECTION.

6. TREES WITHIN THE RIGHT-OF-WAY AND TEMPORARY CONSTRUCTION EASEMENT WHICH INTERFERE WITH CONSTRUCTION SHALL BE REMOVED ONLY AT THE DIRECTION OF THE ENGINEER.

7. THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT.

8. THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES.

AGGREGATE SURFACE COURSE, TYPE B	**2.05 TON/CU YD**
STONE DUMPED RIPRAP, CLASS A4	**1.75 TON/CU YD**
POROUS GRANULAR EMBANKMENT	**2.05 TON/CU YD**
TEMPORARY EROSION CONTROL SEEDING	**100 POUNDS/ACRE**

9. THE AREA TO BE SEEDED SHALL CONSIST OF ALL EARTH SURFACES WITHIN THE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER
   SEEDING, CLASS 2 (SPECIAL) = 0.8 ACRES

FILE NAME = 110266-sht-summary.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3585 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		DRAWN - D.T.M.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.003959	PLOT SCALE =	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 2/23/2012	DATE - 02/23/12	REVISED -

STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

SUMMARY OF QUANTITIES AND GENERAL NOTES
MALECKI ROAD

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	2
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
ILLINOIS	FED. AID PROJECT BROS-0081(063)			

EARTHWORK SUMMARY

LOCATION	EARTH EXCAVATION	SHRINKAGE FACTOR	% USED	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT REQUIRED	EARTHWORK BALANCE WASTE (+) / SHORTAGE (-)
	20200100					
	CU YD			CU YD	CU YD	CU YD
TR 91 (MALECKI ROAD)						
STA. 12+50.00 TO STA. 18+30.24	429	25.00%	100.00%	322	501	-179
STA. 18+30.24 TO STA. 19+31.76	0	25.00%	100.00%	0	0	0
STA. 19+31.76 TO STA. 21+50.00	105	25.00%	100.00%	79	84	-5
CHANNEL EXCAVATION	660	25.00%	70.00%	347		347
TOTAL	534			748	585	163
USE	535					165
					WASTE 165	CU.YD.

GUARDRAIL TABULATION

LOCATION	TRAFFIC BARRIER TERMINAL TYPE 5A	TRAFFIC BARRIER TERMINAL, TYPE 1	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL MARKERS TYPE A
	63100075	LR631020	78201000	78200410
	EACH	EACH	EACH	EACH
TR 91 (MALECKI ROAD)				
RT. STA. 18+17.20 TO RT. STA. 18+30.45	1			
LT. STA.19+31.55 TO LT. STA. 19+44.80	1			
RT. STA. 17+92.20 TO RT. STA. 18+17.20		1	1	1
LT. STA.19+44.80 TO LT. STA. 19+69.80		1	1	1
RT. STA. 19+32.70			1	
LT. STA. 18+29.30			1	
RT. STA. 13+37.00			1	
LT. STA. 13+37.00			1	
RT. STA. 13+67.00			1	
LT. STA. 13+67.00			1	
TOTAL	2	2	8	2

ROADWAY SCHEDULE

LOCATION	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	AGGREGATE SURFACE COURSE TYPE B
	21001000	40200800
	SQ YD	TON
TR 91 (MALECKI ROAD)		
STA. 12+50.00 TO STA. 18+30.24	1,238	528
STA. 19+31.76 TO STA. 21+50.00	460	193
STA. 99+50.00 TO STA. 100+00.00	170	72
TOTAL	1,868	793
USE	1,870	795

SEEDING SCHEDULE

LOCATION	SEEDING, CLASS 2 (SPECIAL)	*TEMPORARY EROSION CONTROL SEEDING
	25001000	28000250
	ACRE	POUND
TR 91 (MALECKI ROAD)		
STA. 12+50.00 TO STA. 18+30.24	0.62	124
STA. 19+31.76 TO STA. 21+50.00	0.19	38
TOTAL	0.81	162
USE	0.80	160

* 2 APPLICATIONS OF TEMPORARY EROSION CONTROL SEEDING SHALL BE APPLIED AT A RATE OF 100 POUNDS / ACRE

TREE REMOVAL

LOCATION	(6 TO 15)
	20100110
	UNIT
TR 91 (MALECKI ROAD)	
RT. STA. 13+05 TO STA. 20+31	336
TOTAL	336

TEMPORARY DITCH CHECKS

LOCATION	28000305
	FOOT
TR 91 (MALECKI ROAD)	
LT. STA. 13+30	15
LT. STA. 13+90	15
LT. STA. 20+50	10
RT. STA. 20+50	10
LT. STA. 21+50	10
RT. STA. 21+50	10
TOTAL	70

PERIMETER EROSION BARRIER

LOCATION	28000400
	FOOT
TR 91 (MALECKI ROAD)	
LT. STA. 13+85 TO 18+40	455
RT. STA. 12+50 TO 13+50	100
RT. STA. 13+85 TO 18+40	455
LT. STA. 19+30 TO 20+00	70
RT. STA. 19+30 TO 20+00	70
TOTAL	1150

FILE NAME = 110266-sht-schedule.dgn | USER NAME = | DESIGNED - A.S.L. | REVISED -
DRAWN - D.T.M. | REVISED -
PLOT SCALE = | CHECKED - S.W.M. | REVISED -
PLOT DATE = 2/23/2012 | DATE - 02/21/12 | REVISED -

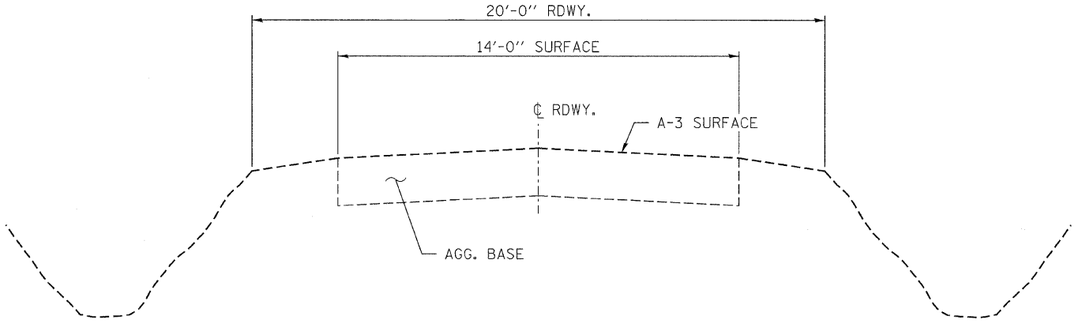
HAMPTON, LENZINI AND RENWICK, INC.
3565 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000999

STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

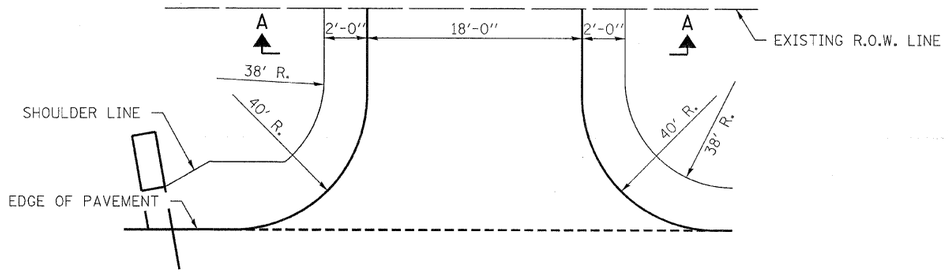
SCHEDULE OF QUANTITIES
MALECKI ROAD

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

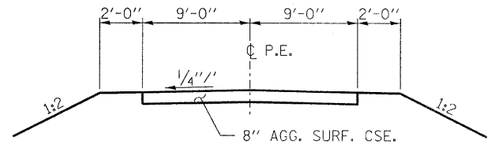
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	3
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
ILLINOIS	FED. AID PROJECT BROS-0081(063)			



EXISTING TYPICAL CROSS SECTION
STA. 12+50 TO 21+50

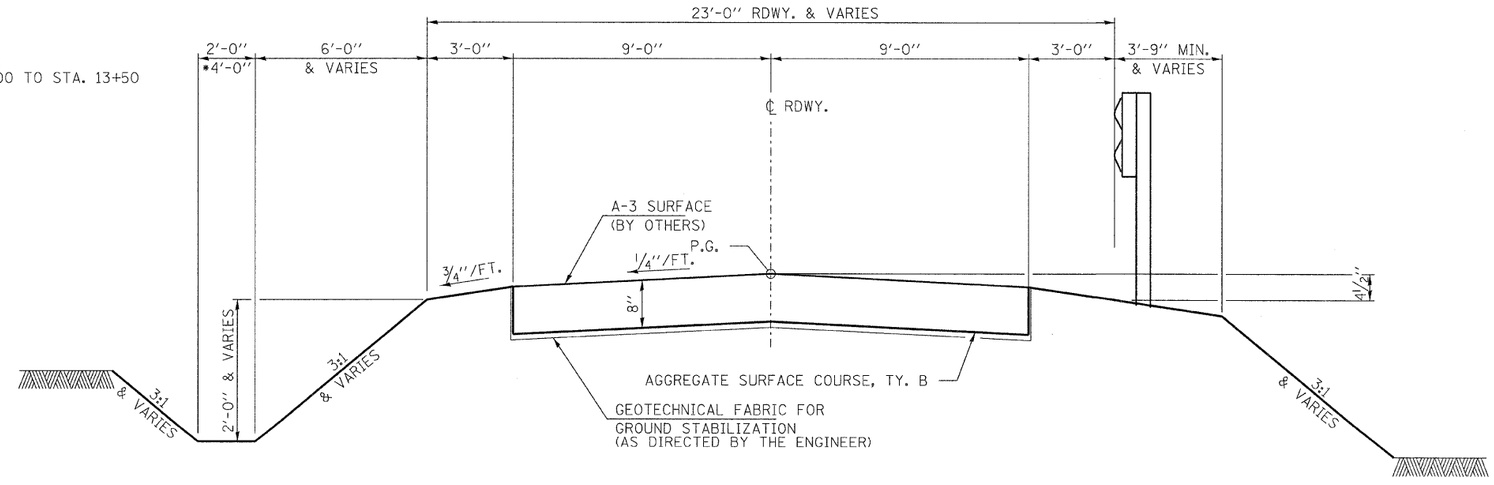


SIDE ROAD DETAIL



SECTION A-A

* WIDTH VARIES
LT. STA. 13+00 TO STA. 13+50



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. 12+50 TO 21+50

TRANSITION FROM THE PROPOSED ROADWAY TO THE EXISTING ROADWAY IS TO BE CONSTRUCTED FROM STA. 12+50 TO 13+00 AND FROM STA. 20+50 TO 21+50. SEE SHEET 22 FOR TRANSITION AT CULVERT AND SEE SHEET 26 FOR TRANSITION AT BRIDGE.

FILE NAME = 112268-sht-typsections.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3058 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.005959		DRAWN - D.A.B.	REVISED -
	PLOT SCALE =	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 2/20/2012	DATE - 02/20/12	REVISED -

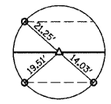
STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

TYPICAL CROSS SECTIONS
MALECKI ROAD

SCALE: | SHEET NO. OF SHEETS | STA. TO STA.

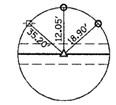
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	4
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
		ILLINOIS	FED. AID PROJECT BROS-008(063)	

WAYNE K. HAILS
SE¼, NE¼, SEC 21, T. 1 S., R. 4 E., 3RD P.M.



P.O.T. STA. 11+28.09
MAG NAIL (SET)
N. 640,092.459
E. 862,381.934

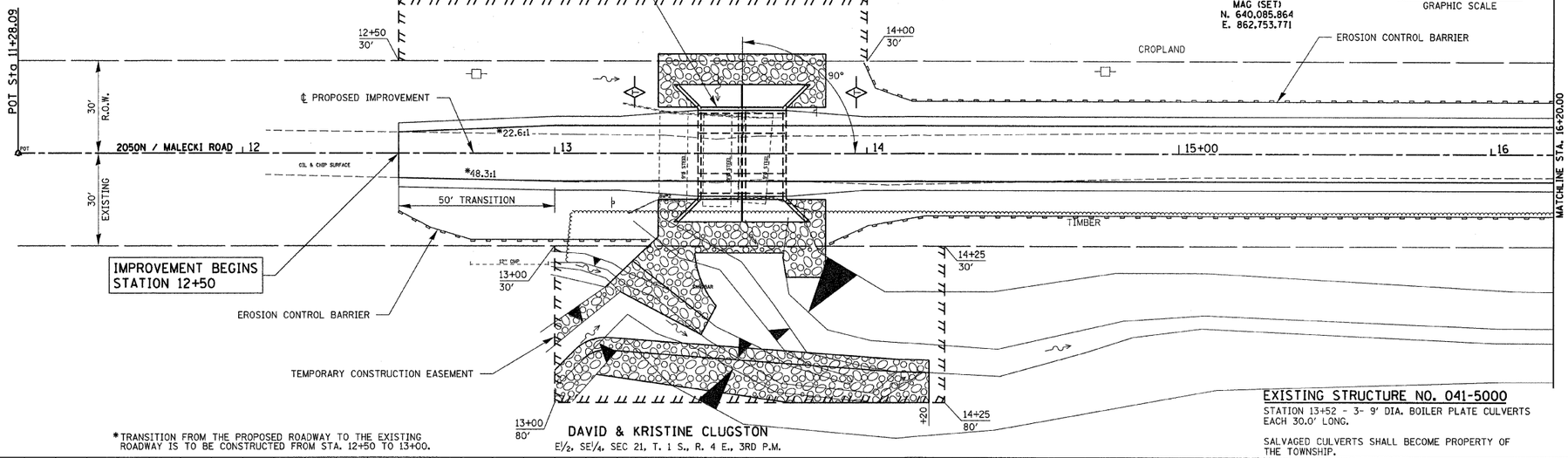
STATION 13+60
DOUBLE 12' X 9' PRECAST BOX CULVERT (SPECIAL)
W/ BOX CULVERT END SECTIONS
LENGTH = 30'-0", SKEW = 0°
PROPOSED STRUCTURE NO. 041-5077



P.O.T. STA. 15+00.00
MAG (SET)
N. 640,085.864
E. 862,753.771

N

0 20' 40'
GRAPHIC SCALE



*TRANSITION FROM THE PROPOSED ROADWAY TO THE EXISTING ROADWAY IS TO BE CONSTRUCTED FROM STA. 12+50 TO 13+00.

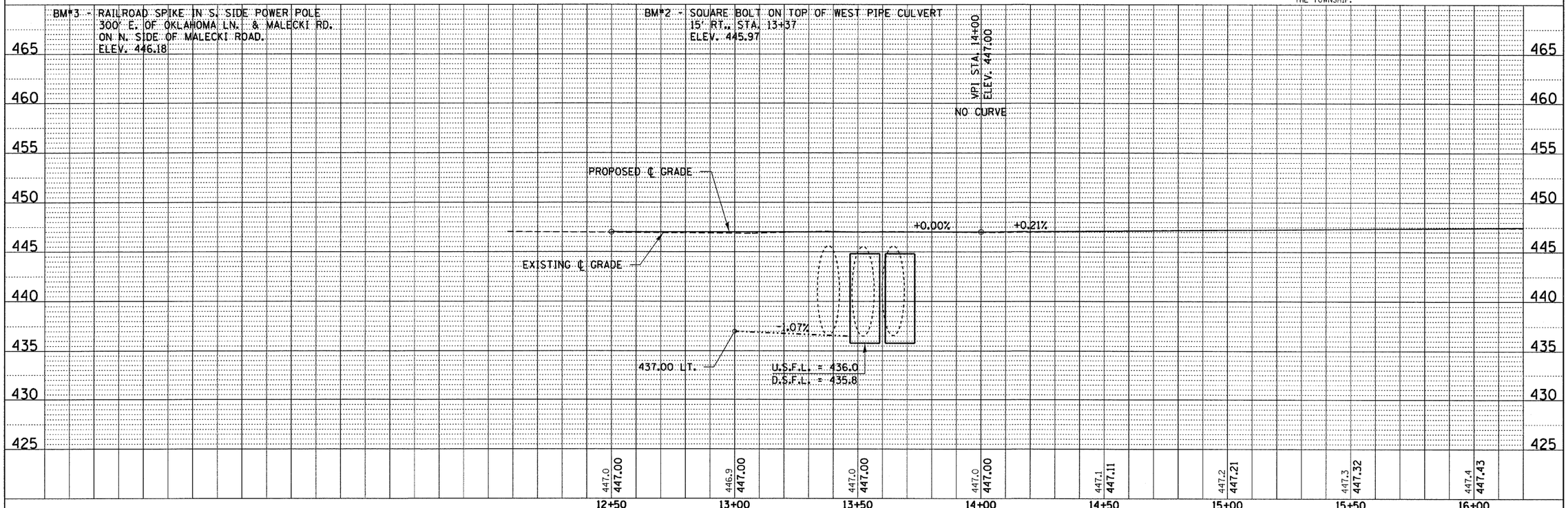
DAVID & KRISTINE CLUGSTON
E½, SE¼, SEC 21, T. 1 S., R. 4 E., 3RD P.M.

EXISTING STRUCTURE NO. 041-5000
STATION 13+52 - 3- 9' DIA. BOILER PLATE CULVERTS EACH 30.0' LONG.

SALVAGED CULVERTS SHALL BECOME PROPERTY OF THE TOWNSHIP.

PLAN
SURVEYED
PLOTTED
ALIGNMENT CHECKED
NOTE BOOK
NO.
DATE
BY
J.S.
D.T.M.
J.W.F.
S.S.M.
102266-sht-ppl.dgn
CADD FILE NAME

PROFILE
SURVEYED
PLOTTED
GRADES CHECKED
NOTE BOOK
NO.
DATE
BY
J.S.
D.T.M.
J.W.F.
S.S.M.
STRUCTURE NO'S/NS CHK'D



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		DRAWN - D.T.M.	REVISED -
	PLOT SCALE =	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 2/20/2012	DATE - 02/20/12	REVISED -

HAMPTON, LENZINI AND RENWICK, INC.
3005 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.003969

STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

PLAN & PROFILE
MALECKI ROAD

SCALE: H:20 V:5 | SHEET NO. 1 OF 3 SHEETS | STA. 11+28.09 TO STA. 16+20.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	5
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
ILLINOIS	FED. AID PROJECT BROS-008I(063)			

WAYNE K. HAILS
SE¼, NE¼, SEC 21, T. 1 S., R. 4 E., 3RD P.M.

CHARLES W. PIERCE
SW¼, NW¼, SEC 22, T. 1 S., R. 4 E., 3RD P.M.

DAVID & KRISTINE CLUGSTON
E½, SE¼, SEC 21, T. 1 S., R. 4 E., 3RD P.M.

VICKIE MIDDLETON
NW¼, SW¼, SEC 22, T. 1 S., R. 4 E., 3RD P.M.

STATION 18+81
PRECAST PRESTRESSED CONCRETE DECK BEAM BRIDGE. 3 SPANS: 30'-0", 40'-0", 30'-0"
24'-0" RDWY.; SKEW = 10°
PROPOSED STRUCTURE NO. 041-3748

RAN 1 IR/CAP
YELLOW BENCHTIE IN POWER POLE
MAG NAIL

P.I. STA. 20+00.00
MAG NAIL (SET)
N. 640077.00
E. 863253.70

P.O.T. STA. 24+05.64
MAG NAIL (SET)
N. 640,064.325
E. 863,659.147

MAG IN 16" TREE
MAG IN 14" TREE
MAG IN 12" TREE

25' EXISTING | WESEKE LN. | 25' R.O.W.

S.R. IMPROVEMENT ENDS
STATION 100+00

IMPROVEMENT ENDS
STATION 21+50

19+75 50'
19+50 30'
20+25 50'
20+50 30'
100+00
20+00

40' R. (TYP.)

80°
90°
179° 14' 9"

*17.1:1
*34.4:1

100' TRANSITION

M.L. STA. 20+00.00 =
S.R. STA. 99+50.00

EROSION CONTROL BARRIER
CROPLAND
℄ PROPOSED IMPROVEMENT
MATCHLINE STA. 16+20.00
30' R.O.W.
30' EXISTING
2050N / MALECKI ROAD
OIL & CHIP SURFACE
TIMBER
CONCRETE
CREEK

*TRANSITION FROM THE PROPOSED ROADWAY TO THE EXISTING ROADWAY IS TO BE CONSTRUCTED FROM STA. 20+50 TO 21+50.

EXISTING STRUCTURE NO. 041-3073

STATION 18+78.67 - THREE SPAN I-BEAM BRIDGE WITH TIMBER DECK ON CLOSED TIMBER ABUTMENTS AND WINGWALLS.
43.0'' FC.-FC. ABUTS; 19.9' o.-o. DECK

BM#1 - YELLOW BENCH TIE IN POWER POLE
32' LT., STA. 20+28
ELEV. 452.66

V.P.C. | V.P.I. STA. 16+80 ELEV. 447.60 | K = 46 100' V.C. | V.P.R.C. | V.P.I. STA. 17+80 ELEV. 450.00 | K = 42 100' V.C. | V.P.T. | V.P.C. | V.P.I. STA. 19+80 ELEV. 450.00 | K = 69 100' V.C. | V.P.R.C. | V.P.I. STA. 20+80 ELEV. 448.55 | K = 105 100' V.C. | V.P.T.

PROPOSED ℄ GRADE
EXISTING ℄ GRADE
+0.21% +2.40% +2.40% +0.00% +0.00% -1.45% -1.15% -0.80% -0.50% -0.57%

100 YEAR H.W. ELEV. 447.5
15 YEAR H.W. ELEV. 446.4

447.60 RT.
SP. DITCH RT.
447.60 LT.
447.20 LT.
446.10 RT.
SP. DITCH LT.

CHANNEL EXCAVATION
STONE DUMPED RIPRAP, CLASS A4
* 2H:1V @ RT. L'S
℄ ELEV. 430.8

	16+50	17+00	17+50	18+00	18+50	19+00	19+50	20+00	20+50	21+00	21+50	22+00
	447.4 447.58	447.1 448.18	447.0 449.23	447.2 449.89	447.8 450.00	447.9 450.00	448.5 449.97	449.1 449.64	448.8 449.00	448.5 448.49	448.2 448.20	447.8

FILE NAME = 110266-sht-pp2.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3068 STEVENSON DRIVE, SUITE 231 SPRINGFIELD, ILLINOIS 62703		DRAWN - D.T.M.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.003959	PLOT SCALE =	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 2/20/2012	DATE - 02/20/12	REVISED -

STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

PLAN & PROFILE
MALECKI ROAD

SCALE: H:20 V:5 | SHEET NO. 2 OF 3 SHEETS | STA. 16+20.00 TO STA. 22+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	6
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
ILLINOIS	FED. AID PROJECT BROS-0081(063)			

PLAN: SURVEYED — PLOTTED — ALIGNMENT CHECKED — NOTE BOOK — NO. — CADD FILE NAME: 110266-sht1-pp1.dgn — BY: D.T.M. — DATE

PROFILE: SURVEYED — PLOTTED — GRADES CHECKED — NOTE BOOK — NO. — STRUCTURE NO(S)/NS CHKD — BY: D.T.M. — DATE

PLAN	BY	DATE
SURVEYED	N/A	
PLOTTED	D.T.M.	
ALIGNMENT CHECKED	J.W.F.	
GRADES CHECKED	J.W.F.	
NOTE BOOK	CAD FILE NAME	110266-sht-pp3.dgn
NO.		

PROFILE	BY	DATE
SURVEYED	N/A	
PLOTTED	D.T.M.	
GRADES CHECKED	J.W.F.	
NOTE BOOK	S.W.M.	02/20/12
NO.	STRUCTURE NO.(IF ANY) CARD	

DAVID & KRISTINE CLUGSTON
E1/2 , SE1/4, SEC 21, T. 1 S., R. 4 E., 3RD P.M.

WAYNE K. HAILS
SE1/4, NE1/4, SEC 21, T. 1 S., R. 4 E., 3RD P.M.

VICKIE MIDDLETON
NW1/4, SW1/4, SEC 22, T. 1 S., R. 4 E., 3RD P.M.

CHARLES W. PIERCE
SW1/4, NW1/4, SEC 22, T. 1 S., R. 4 E., 3RD P.M.

N

0 20' 40'
GRAPHIC SCALE

TIMBER

179° 14' 9"

90°

200'

M.L. STA. 20+00.00 =
S.R. STA. 99+50.00

100+00 MESEKE LN.

POT Stg 100+50.00

25' R.O.W.

25' EXISTING

IMPROVEMENT ENDS
STATION 100+00

VPI STA. 99+59
ELEV. 449.46

PROPOSED ℄ GRADE

-2.00%

+0.341%

EXISTING ℄ GRADE

449.1 449.64

449.6 449.60

99+50

100+00

465 460 455 450 445 440 435 430 425

FILE NAME = 110266-sht-pp3.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - D.T.M.	REVISED -	
3065 STEVENSON DRIVE, SUITE 231 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - S.W.M.	REVISED -	
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 2/20/2012	DATE - 02/20/12	REVISED -	

STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

PLAN & PROFILE
MESEKE LANE

SCALE: H20:V5 | SHEET NO. 3 OF 3 SHEETS | STA. 99+50.00 TO STA. 100+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	7
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
ILLINOIS	FED. AID PROJECT BRGS-008I(063)			

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

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

65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85

448
446
444
442
440
438

IMPROVEMENT BEGINS

AHEAD C = 9 F = 0
BACK C = 0 F = 0

447.00
446.95

TEMP. EASEMENT

EXIST. R.O.W.

EXIST. R.O.W.

12+50.00

448
446
444
442

447.02

EXIST. R.O.W.

EXIST. R.O.W.

12+10.00

65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85

FILE NAME = 110266-sht-sxs.dgn
USER NAME =
PLOT SCALE =
PLOT DATE = 2/20/2012

DESIGNED - J.W.F.
DRAWN - D.T.M.
CHECKED - S.W.M.
DATE - 02/20/12

REVISED -
REVISED -
REVISED -
REVISED -

HAMPTON, LENZINI AND RENWICK, INC.
3365 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000859

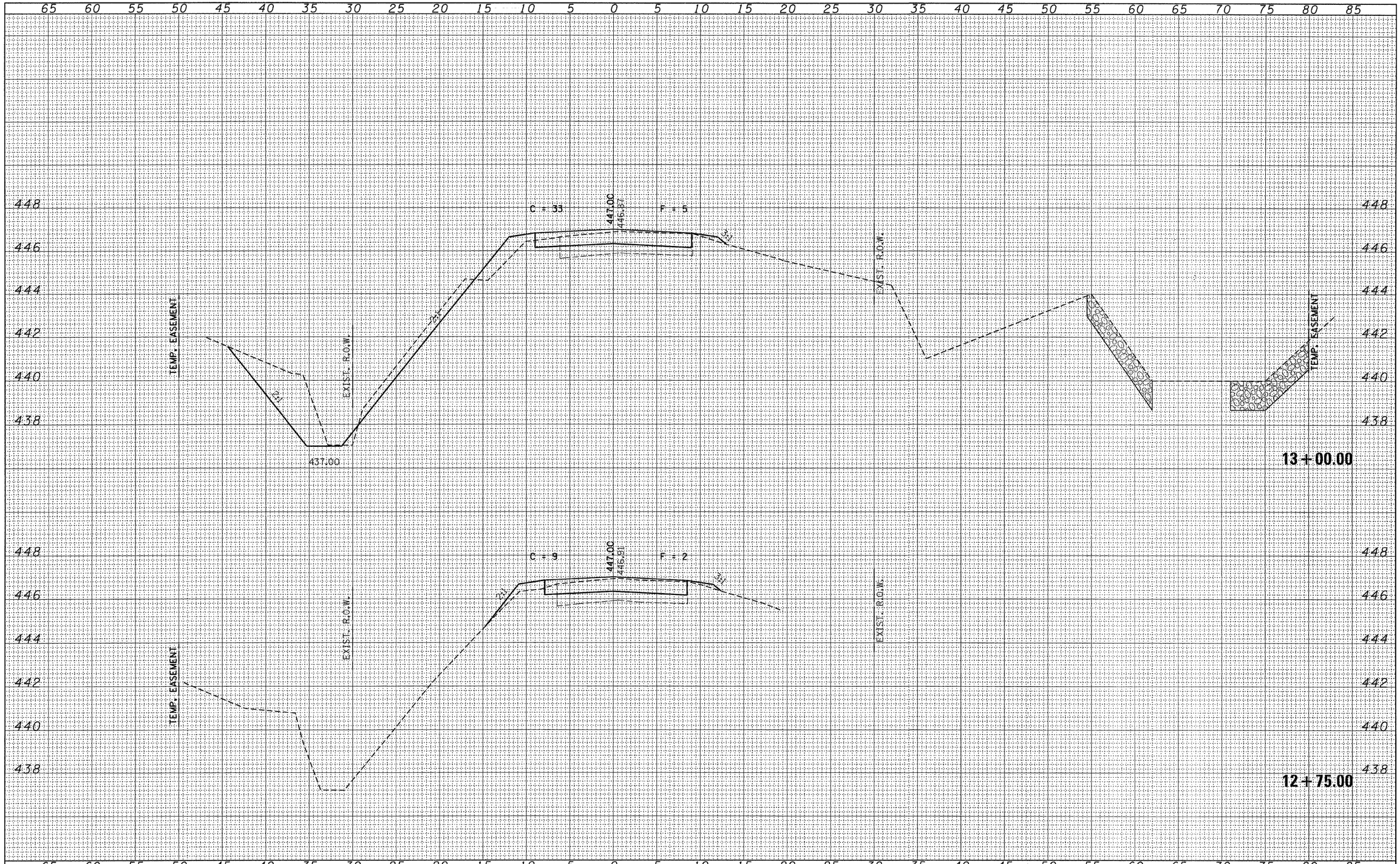
STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
MALECKI ROAD

SCALE: H:5 V:2 | SHEET NO. OF SHEETS | STA. 12+10.00 | TO STA. 12+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	8
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
ILLINOIS FED. AID PROJECT BROS-0081(063) BROS-0081(063)				

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



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

FILE NAME = 110266-sht-sxs.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -
		DRAWN - D.T.M.	REVISED -
	PLOT SCALE =	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 2/20/2012	DATE - 02/20/12	REVISED -

HAMPTON, LENZINI AND RENWICK, INC.
3083 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PR / SE CORP 184.005959

STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
MALECKI ROAD

SCALE: H:5 V:2 | SHEET NO. OF SHEETS | STA. 12+75.00 TO STA. 13+00.00

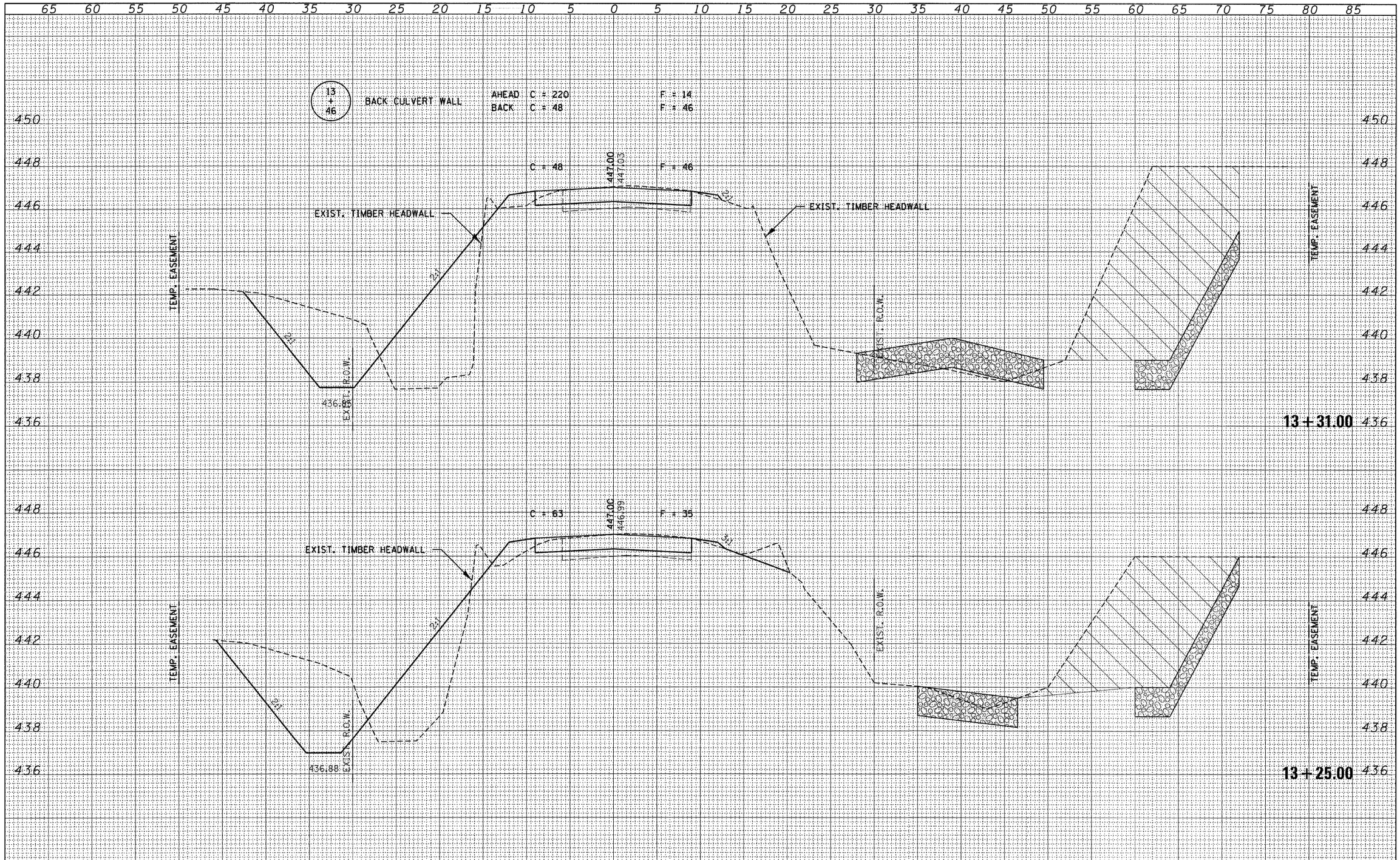
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	9
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
ILLINOIS	FED. AID PROJECT BROS-0081(063)			

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

13 + 46 BACK CULVERT WALL

AHEAD C = 220 F = 14

BACK C = 48 F = 46

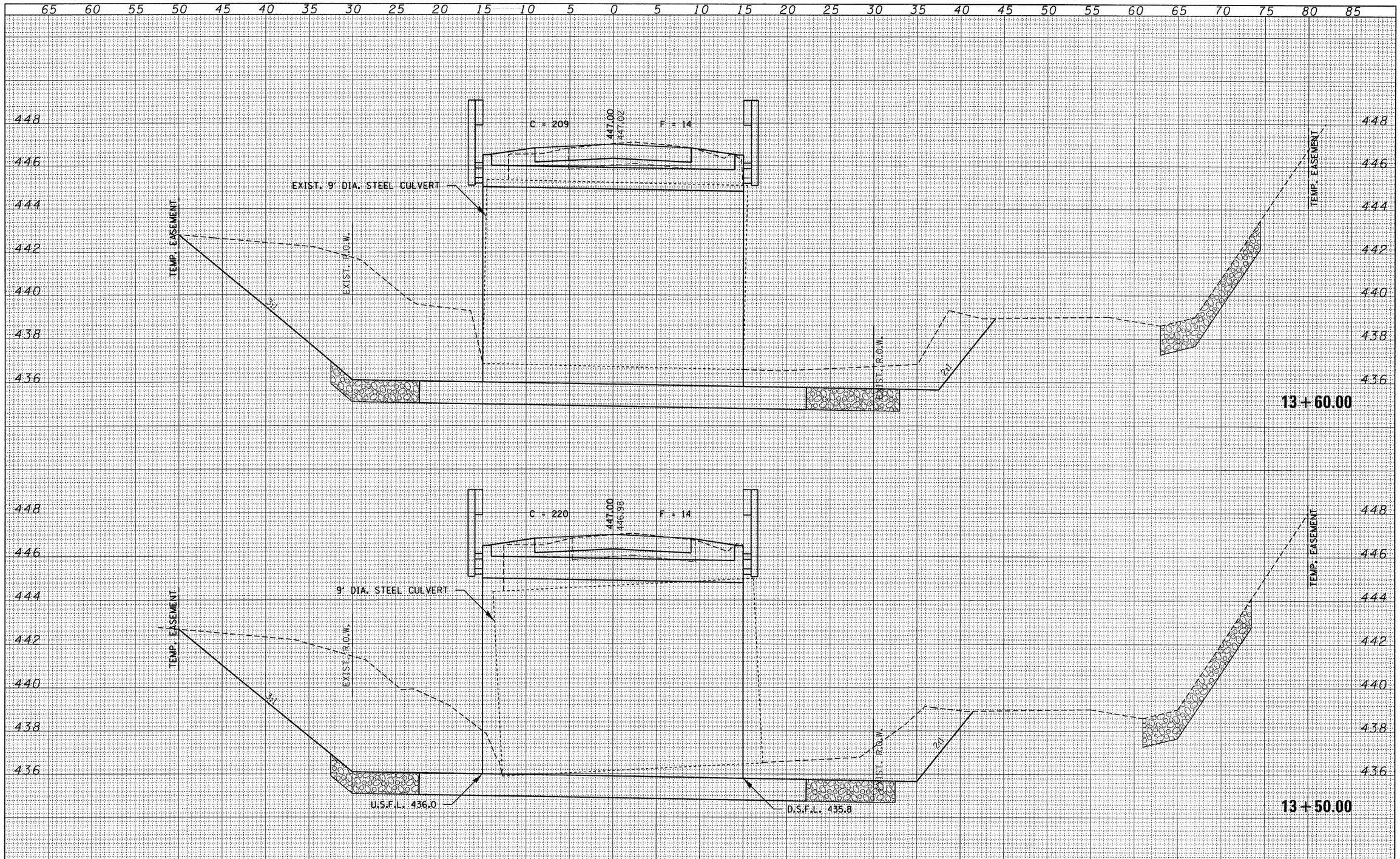


ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

FILE NAME = 110268-sht-sxs.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS JEFFERSON COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS MALECKI ROAD
HAMPTON, LENZINI AND RENWICK, INC. 3360 STEVENSON DRIVE SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.005959		DRAWN - D.T.M.	REVISED -		
	PLOT SCALE =	CHECKED - S.W.M.	REVISED -		
	PLOT DATE = 2/20/2012	DATE - 02/20/12	REVISED -		SCALE: H:5 V:2 / SHEET NO. OF SHEETS / STA. 13+25.00 TO STA. 13+31.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	10
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
ILLINOIS	FED. AID PROJECT BROS-008(063)			

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



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

FILE NAME = 110266-sht-sxs.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3360 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.002959		DRAWN - D.T.M.	REVISED -
	PLOT SCALE =	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 2/20/2012	DATE - 02/20/12	REVISED -

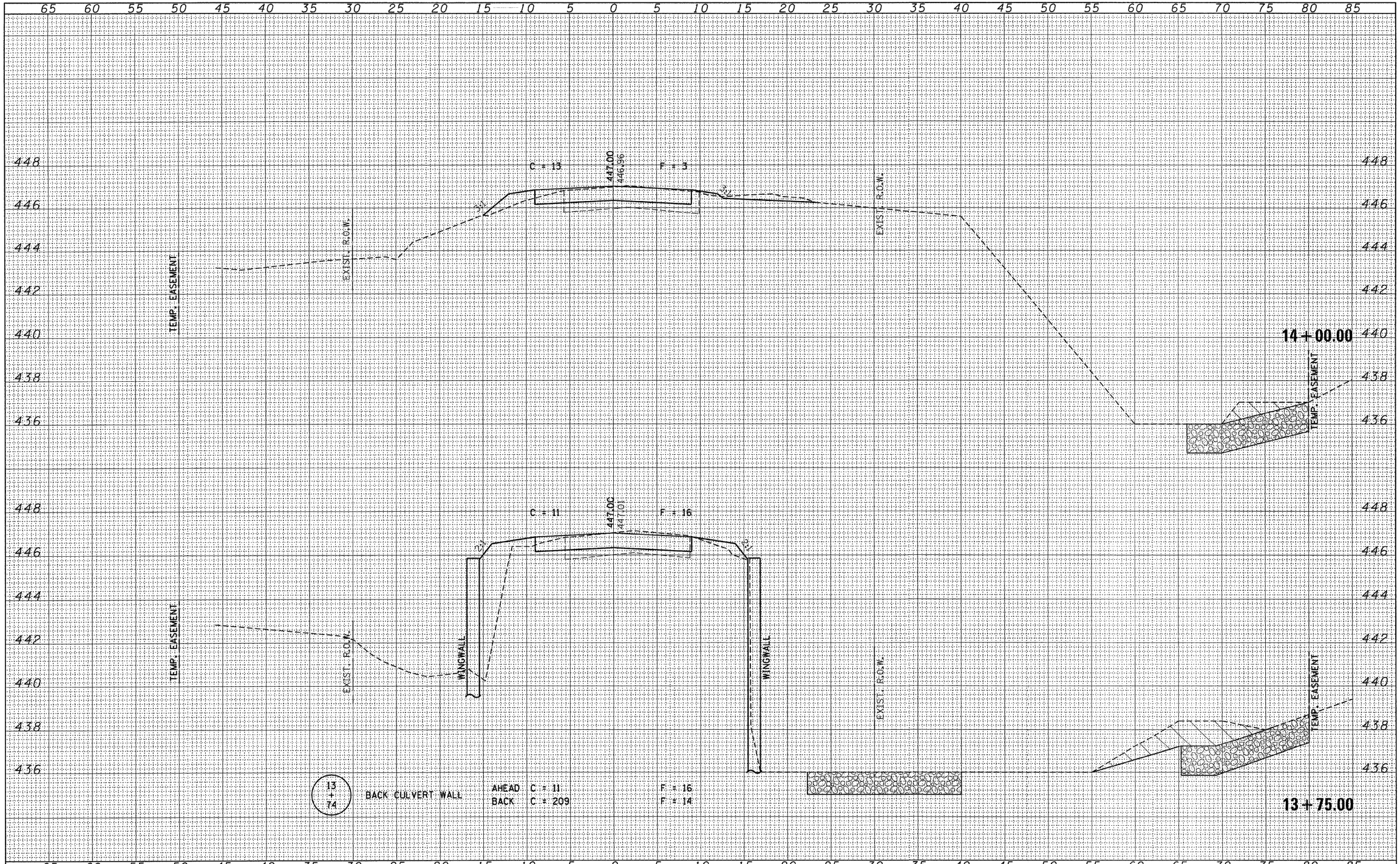
STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
MALECKI ROAD

SCALE: H:5 V:2 | SHEET NO. OF SHEETS | STA. 13+50.00 TO STA. 13+60.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	11
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
ILLINOIS	FED. AID PROJECT BROS-0081(063)			

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



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

FILE NAME = 110266-sht-sxs.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -
		DRAWN - D.T.M.	REVISED -
	PLOT SCALE =	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 2/20/2012	DATE - 02/20/12	REVISED -

HAMPTON, LENZINI AND RENWICK, INC.
3081 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

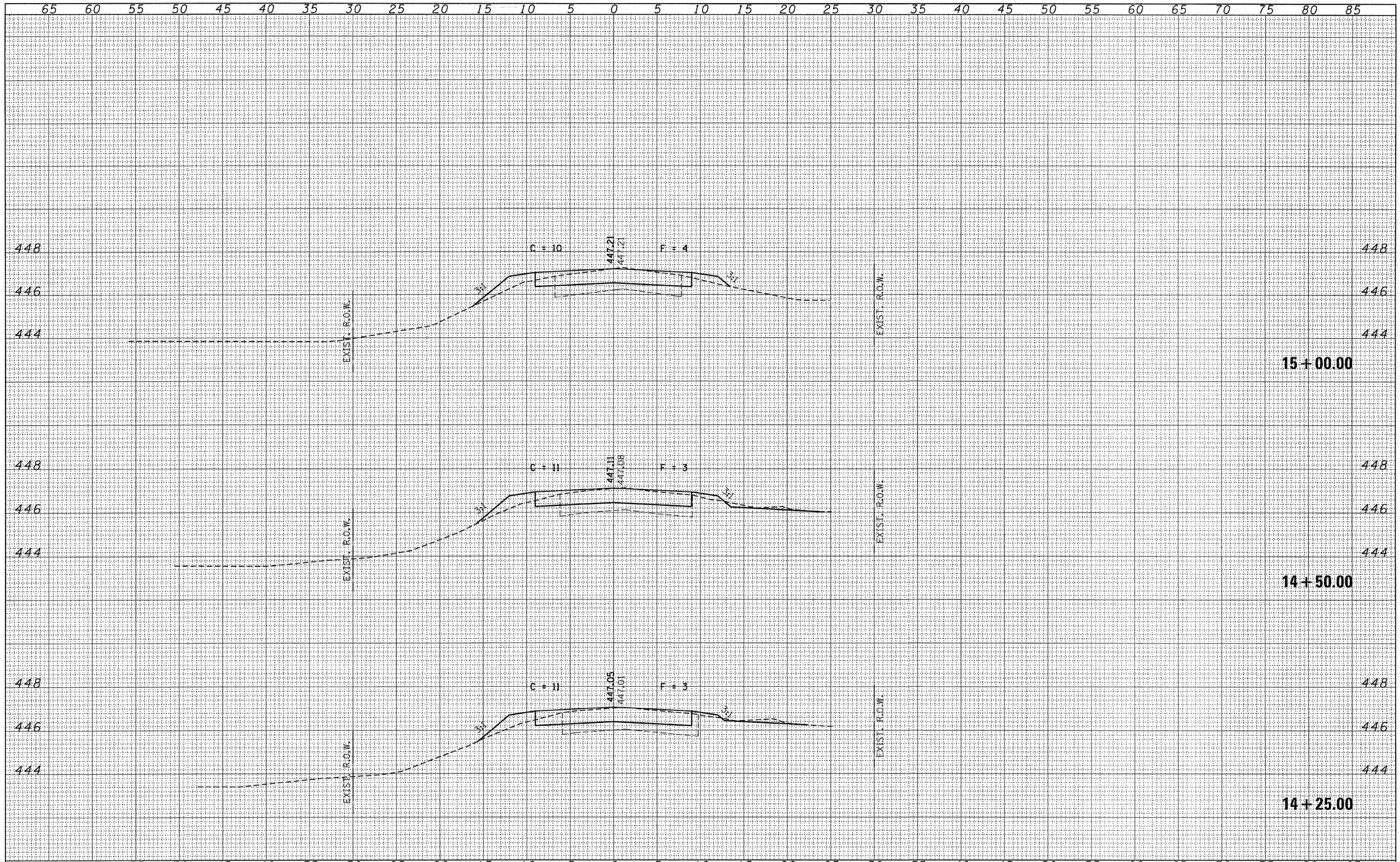
STATION CROSS SECTIONS
MALECKI ROAD

SCALE: H=1 V=2 | SHEET NO. OF SHEETS | STA. 13+75.00 TO STA. 14+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	12
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
ILLINOIS	FED. AID PROJECT BROS-0081(063)			

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

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

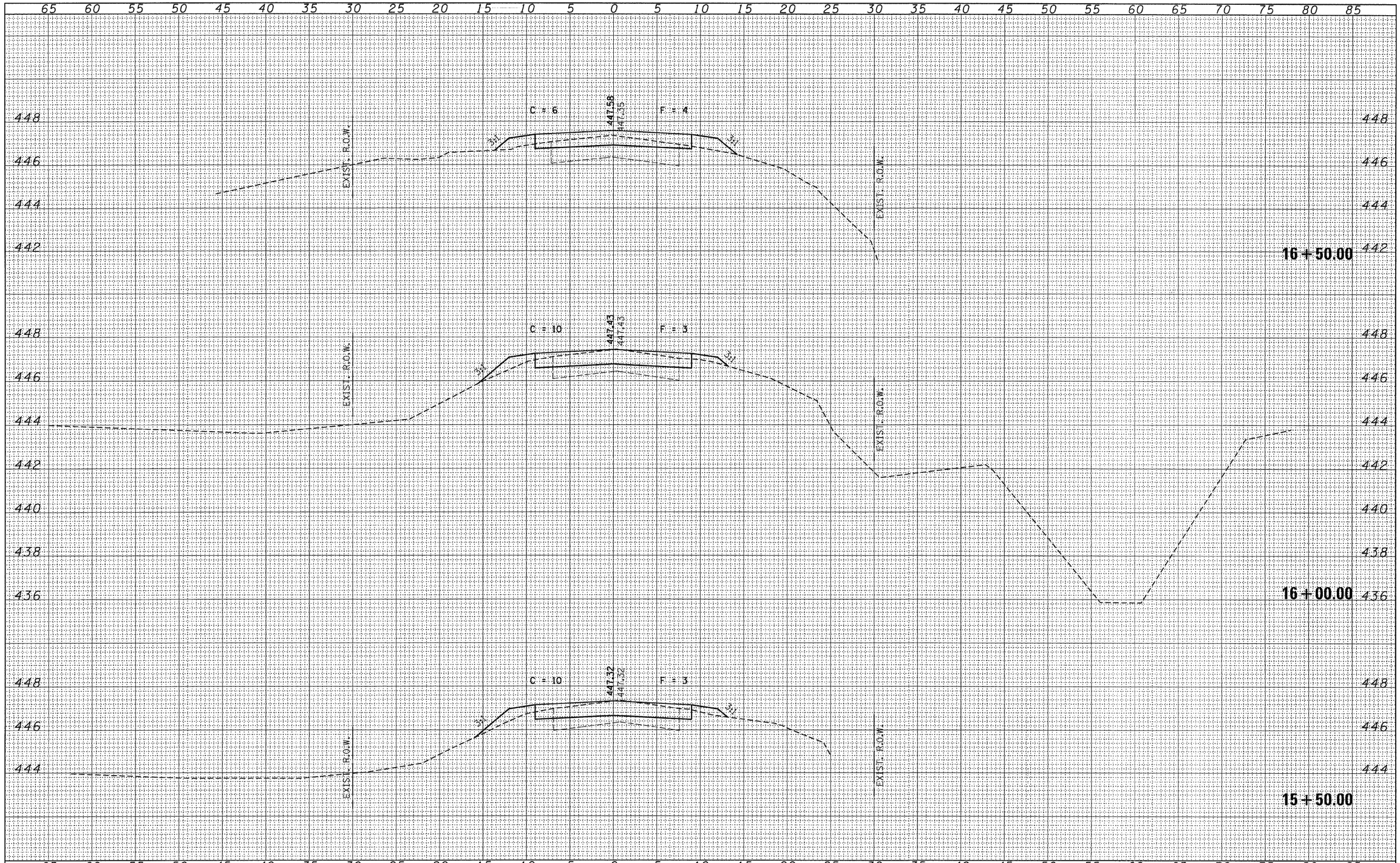


FILE NAME = 110266-sht-sxs.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS JEFFERSON COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS MALECKI ROAD
HAMPTON, LENZINI AND RENWICK, INC. 3065 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.002955		DRAWN - D.T.M.	REVISED -		
	PLOT SCALE =	CHECKED - S.W.M.	REVISED -		SCALE: H:1 V:2 | SHEET NO. OF SHEETS | STA. 14+25.00 TO STA. 15+00.00
	PLOT DATE = 2/20/2012	DATE - 02/20/12	REVISED -		

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	13
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
ILLINOIS	FED. AID PROJECT BROS-0081(063)			

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

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



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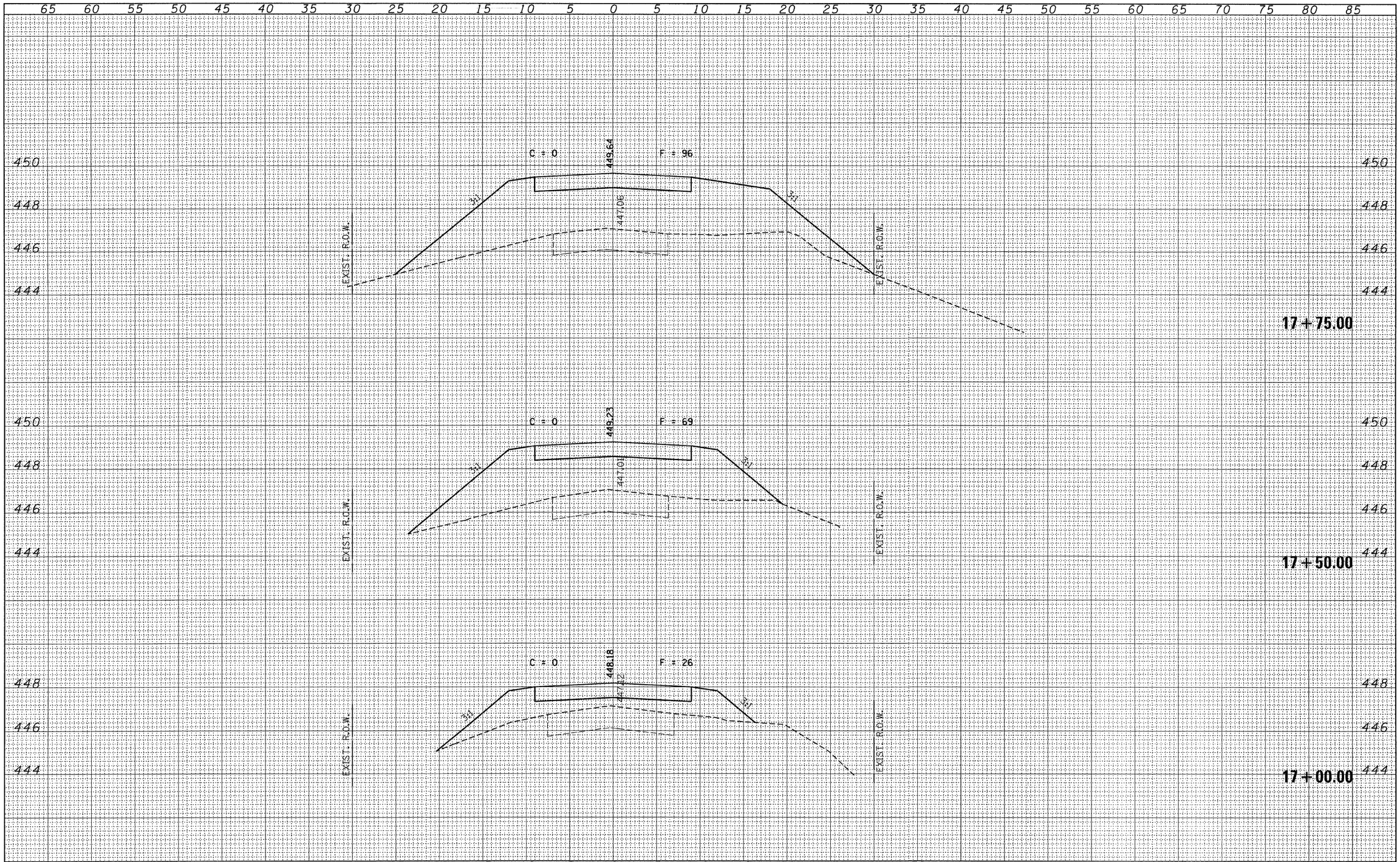
HAMPTON, LENZINI AND RENWICK, INC. 3080 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / FE / SE CORP. 184.002859		DRAWN - D.T.M.	REVISED -		SCALE: H:1"=50' V:1"=5' SHEET NO. OF SHEETS STA. 15+50.00 TO STA. 16+50.00
	PLOT SCALE =	CHECKED - S.W.M.	REVISED -		
	PLOT DATE = 2/20/2012	DATE - 02/20/12	REVISED -		

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	14
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
ILLINOIS	FED. AID PROJECT BROS-0081(063)			

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



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

FILE NAME = 110266-sht-xs.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3055 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP 184.000959		DRAWN - D.T.M.	REVISED -
	PLOT SCALE =	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 2/20/2012	DATE - 02/20/12	REVISED -

STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
MALECKI ROAD

SCALE: H:5 V:2 | SHEET NO. OF SHEETS | STA. 17+00.00 TO STA. 17+75.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	15
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
ILLINOIS	FED. AID PROJECT BROS-0081(063)			

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

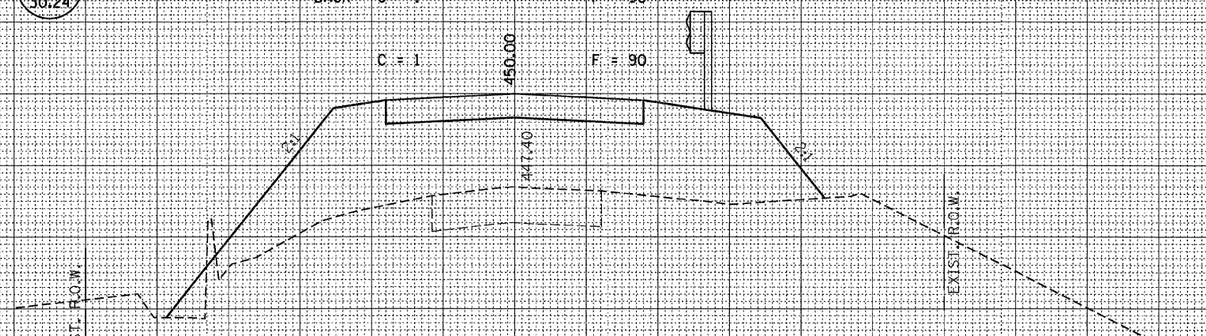
ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85

18 + 30.24 BK. WEST ABUTMENT

AHEAD C = 0 F = 0
BACK C = 1 F = 90

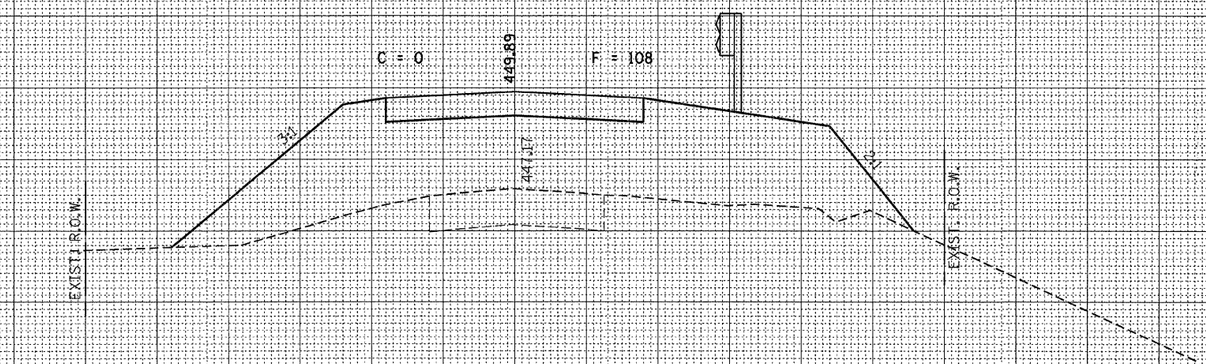
C = 1 450.00 F = 90



452 450 448 446 444 442

18 + 25.00

C = 0 449.89 F = 108



452 450 448 446 444

18 + 00.00

65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85

FILE NAME = 110266-sht-sxs.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3053 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - D.T.M.	REVISED -
	PLOT SCALE =	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 2/20/2012	DATE - 02/20/12	REVISED -

STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

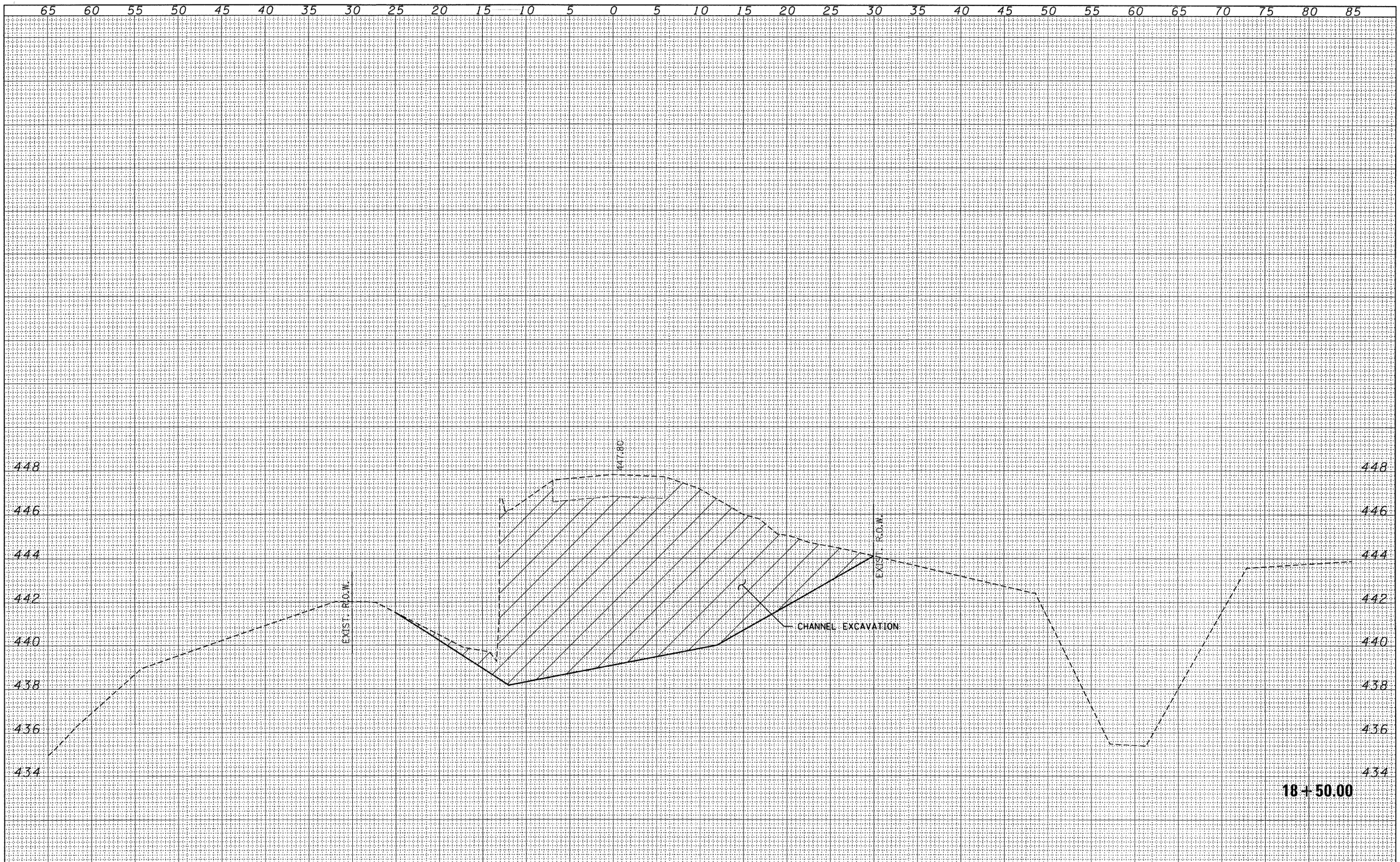
STATION CROSS SECTIONS
MALECKI ROAD

SCALE: H=5xV=2 | SHEET NO. OF SHEETS | STA. 18+00.00 TO STA. 18+25.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	16
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
ILLINOIS	FED. AID PROJECT BROS-0081(063)			

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

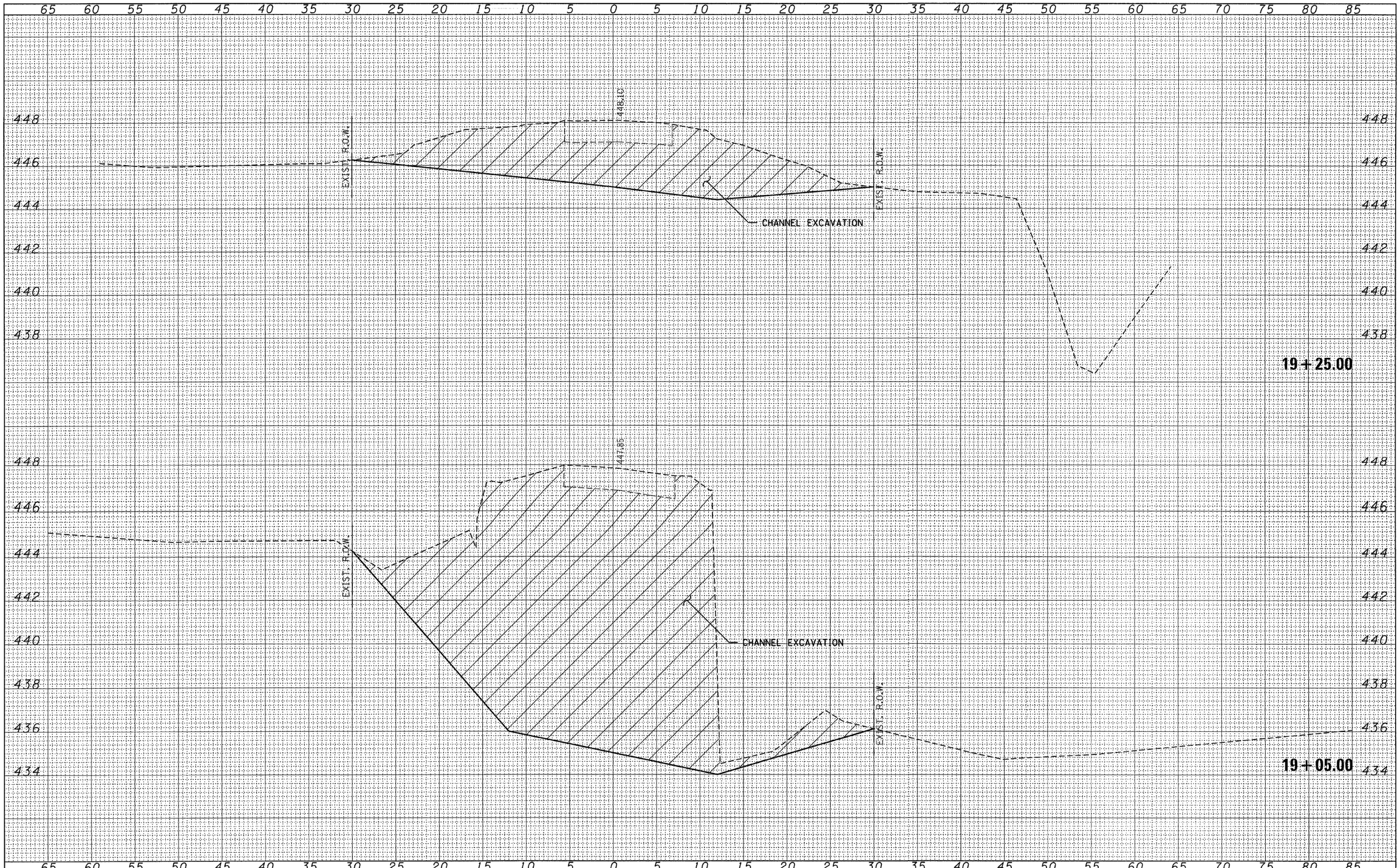
ORIGINAL SURVEY	SURVEYED	BY	DATE
	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		



FILE NAME = 110266-sht-sxs.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS JEFFERSON COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS MALECKI ROAD
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / FE / SE CORP. 184.000859		DRAWN - D.T.M.	REVISED -		
	PLOT SCALE =	CHECKED - S.W.M.	REVISED -		
	PLOT DATE = 2/20/2012	DATE - 02/20/12	REVISED -		SCALE: H:5 V:2 / SHEET NO. OF SHEETS / STA. 18+50.00 / TO STA. 18+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	17
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
ILLINOIS	FED. AID PROJECT BROS-0081(063)			

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



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

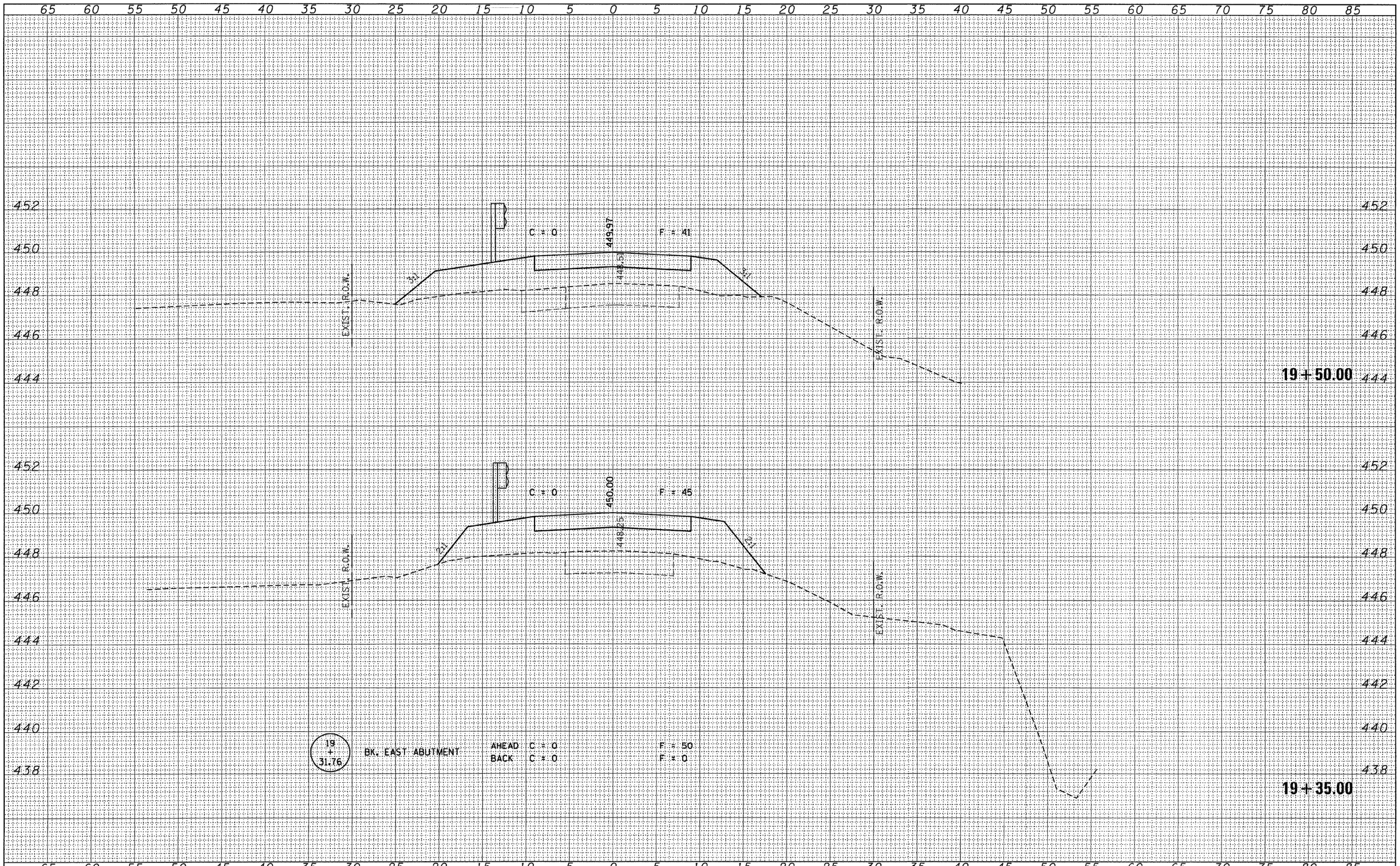
FILE NAME = 110266-sht-sxs.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - D.T.M.	REVISED -
3085 STEVENSON DRIVE, SUITE 231 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - S.W.M.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.005959	PLOT DATE = 2/20/2012	DATE - 02/20/12	REVISED -

STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
MALECKI ROAD

SCALE: H:1 V:2 | SHEET NO. OF SHEETS | STA. 19+05.00 TO STA. 19+25.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	18
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
ILLINOIS	FED. AID PROJECT BROS-0081(063)			



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	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS		
	AREAS CHECKED		

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

FILE NAME = 110266-sht-sxs.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -
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3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	CHECKED - S.W.M.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.002859	PLOT DATE = 2/20/2012	DATE - 02/20/12	REVISED -

STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

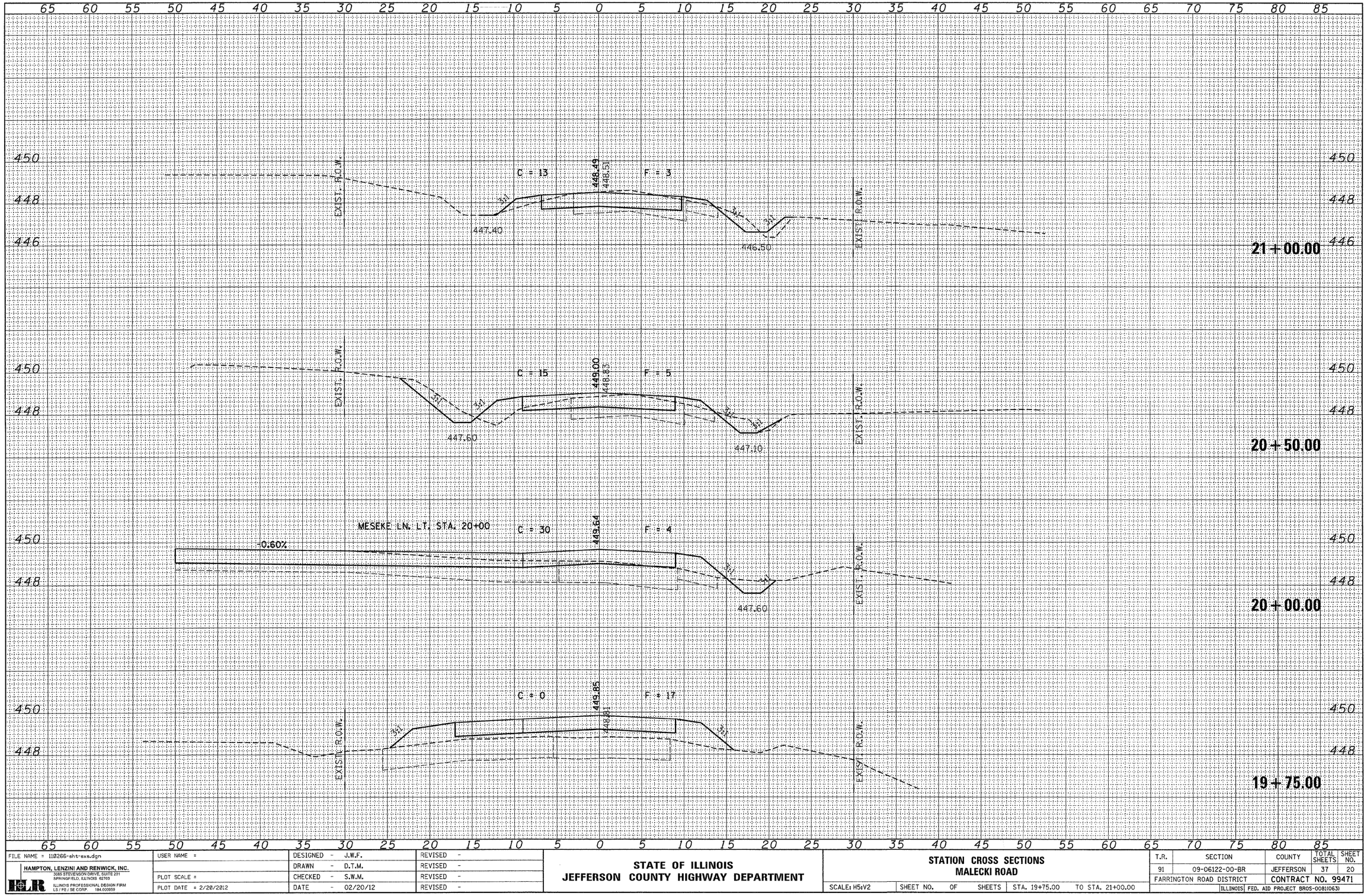
STATION CROSS SECTIONS
MALECKI ROAD

SCALE: H:1 V:2 | SHEET NO. OF SHEETS | STA. 19+35.00 TO STA. 19+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	19
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
ILLINOIS	FED. AID PROJECT BROS-0081(063)			

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

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



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	PLOT SCALE =	CHECKED - S.W.M.	REVISED -	
	PLOT DATE = 2/20/2012	DATE - 02/20/12	REVISED -	

STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
MALECKI ROAD

SCALE: H:1 V:2 | SHEET NO. OF SHEETS | STA. 19+75.00 TO STA. 21+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	20
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
ILLINOIS	FED. AID PROJECT BROS-0081(063)			

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

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

65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85

448

446

C = F =

447.83

EXIST. R.O.W.

EXIST. R.O.W.

22+00.00

IMPROVEMENT ENDS

AHEAD C = 0 F = 0

BACK C = 12 F = 0

450

448

446

448.20

448.17

EXIST. R.O.W.

EXIST. R.O.W.

447.20

446.10

21+50.00

65 60 55 50 45 40 35 30 25 20 15 10 5 0 5 10 15 20 25 30 35 40 45 50 55 60 65 70 75 80 85

FILE NAME = 110266-sht-sxs.dgn	USER NAME =	DESIGNED - J.W.F.	REVISED -
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	PLOT SCALE =	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 2/20/2012	DATE - 02/20/12	REVISED -

HAMPTON, LENZINI AND RENWICK, INC.
3105 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
MALECKI ROAD

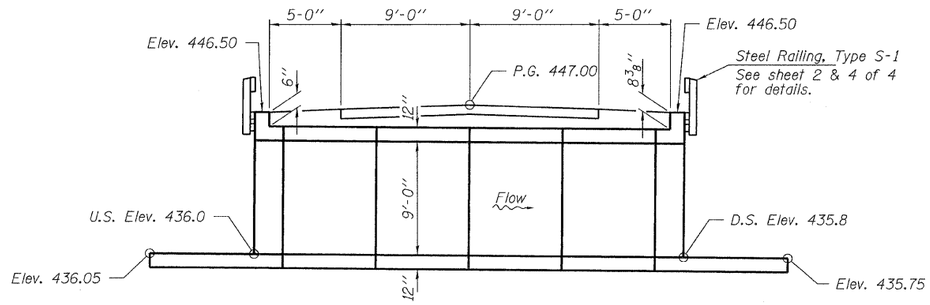
SCALE: H:5 V:2 | SHEET NO. OF SHEETS | STA. 21+50.00 | TO STA. 22+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	21
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
ILLINOIS	FED. AID PROJECT BROS-0081(063)			

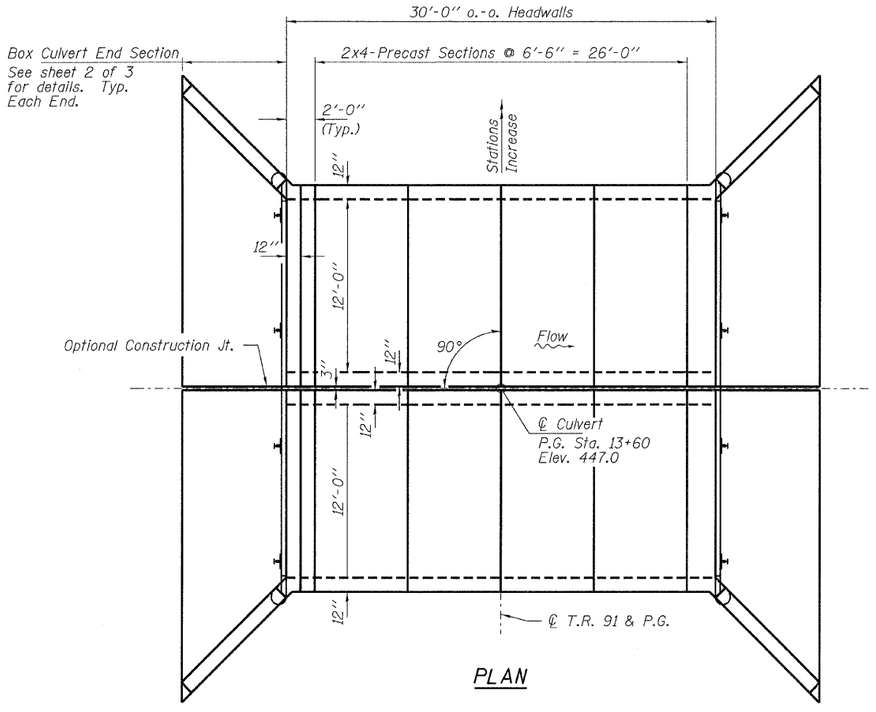
BENCHMARK: Square bolt on top of west pipe culvert. 15.0' Rt., Sta. 13+37, Elev. 445.97

EXISTING STRUCTURE: Sta. 13+52 - 3-9'ϕ boiler plate culverts. 30.0' long.
Structure closed to traffic during construction.

Salvaged culverts shall become property of the Township.



ELEVATION



PLAN

GENERAL NOTES

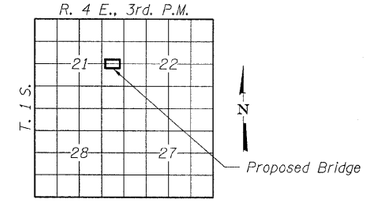
Layout of slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

Precast Concrete Box Culvert Sections and Box Culvert End Sections shall conform to the requirements of ASTM C1577 and design loading shown.

Alternate Cast-in-place headwalls to be approved by Engineer.

It shall be the responsibility of the Contractor to divert flow during construction in orer to keep construction area free of water. The method of water diversion shall be subject to the approval of the Engineer and shall be considered included in the cost of Precast Concrete Box Culverts 12'x9' (Special).

INDEX OF STRUCTURE SHEETS



LOCATION SKETCH

LOADING HL93

Allow 50#/Sq. Ft. for future wearing surface.

DESIGN SPECIFICATIONS

2010 AASHTO LRFD Standard Specifications

DESIGN STRESSES

PRECAST UNITS

f'c = 5,000 psi
fy = 65,000 psi (Welded Wire Fabric)

WATERWAY INFORMATION

See bridge plans, sheet 27 of 37.

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

Steven W. Meggenson 2/23/2012
ILLINOIS STRUCTURAL NO. 081-6064 Expires 11-30-2012

LICENSED STRUCTURAL ENGINEER
STEVEN W. MEGGENSON
081-6064
SPRINGFIELD, IL
STATE OF ILLINOIS

TOTAL BILL OF MATERIAL

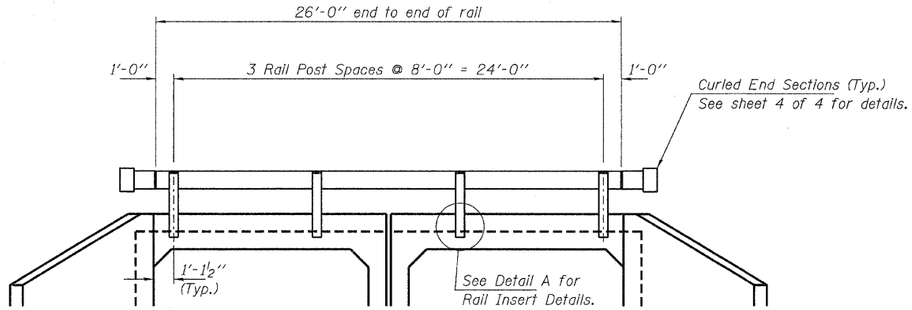
ITEM	UNIT	TOTAL
Channel Excavation	Cu. Yd.	200
Porous Granular Embankment	Ton	450
Stone Dumped Riprap, Class A4	Ton	500
Removal of Existing Structures No. 1	Each	1
Structure Excavation	Cu. Yd.	300
Steel Railing, Type S1	Foot	52
Name Plates	Each	1
Box Culvert End Sections, Culvert No. 1	Each	4
Precast Concrete Box Culverts 12'x9' (Special)	Foot	52

FILE NAME = 110266-sht-culvert.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3065 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS/PE/SE CORP. 184.000859		CHECKED - S.W.M.	REVISED -
	PLOT SCALE =	DRAWN - D.A.B.	REVISED -
	PLOT DATE = 2/28/2012	CHECKED - S.W.M.	REVISED -

STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

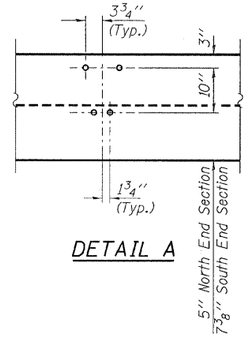
CULVERT PLANS
STRUCTURE NO. 041-5077
SHEET NO. 1 OF 4 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	22
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
		ILLINOIS	FED. AID PROJECT BROS-0081(063)	

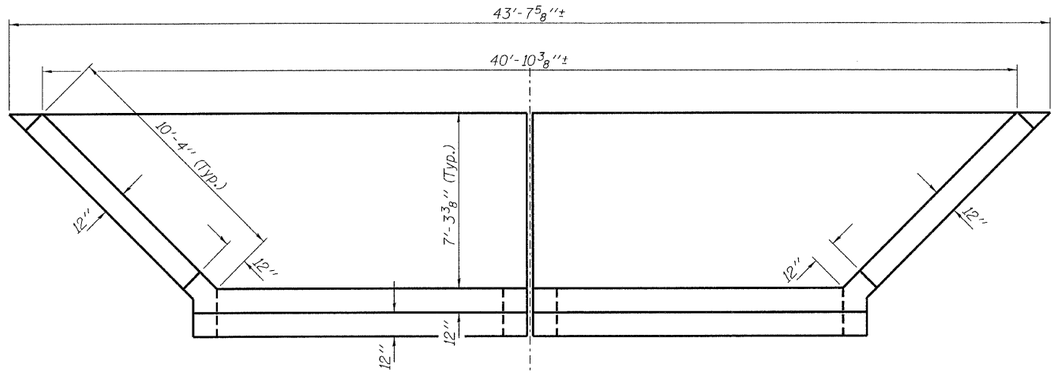


ELEVATION

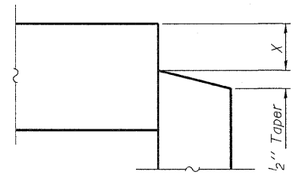
Showing Rail Post Spaces
See sheet 4 of 4 for Railing Details.



DETAIL A

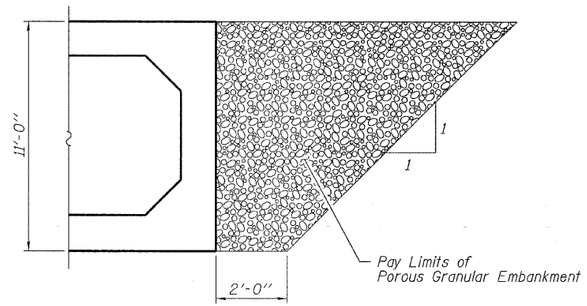


PLAN - END SECTION

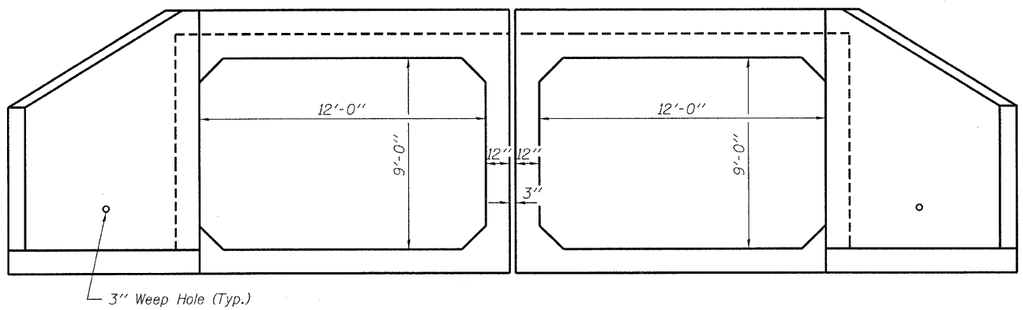


DETAIL B

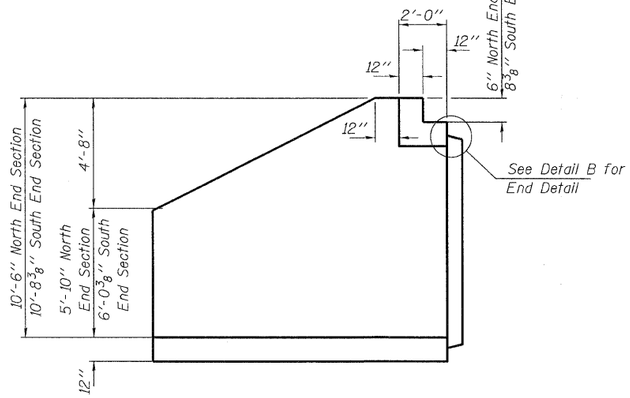
Note: End Detail is subject
to verification by fabricator.



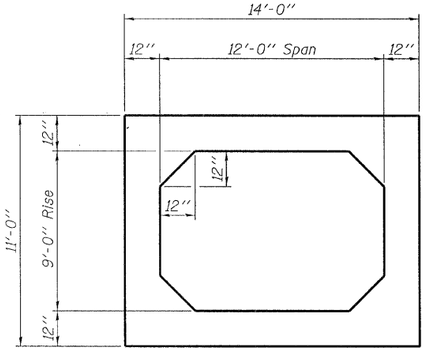
POROUS GRANULAR EMBANKMENT DETAIL



ELEVATION - END SECTION

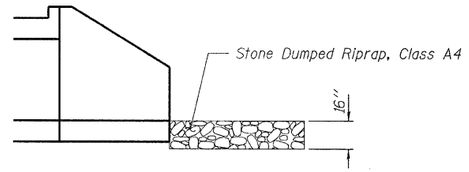


CROSS SECTION - END SECTION

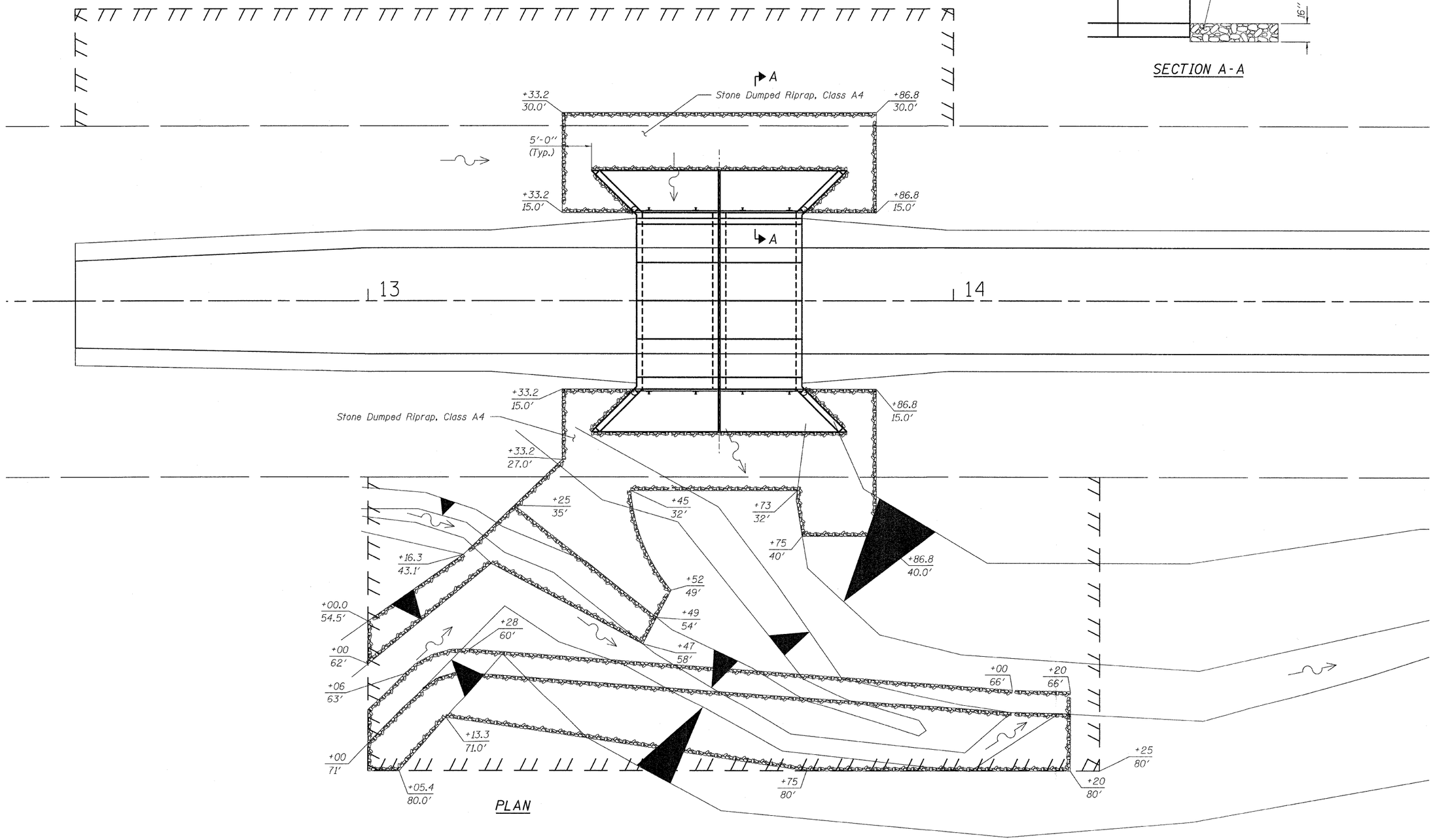


SECTION THRU PRECAST BOX

FILE NAME = 110266-sht-culvert.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -	STATE OF ILLINOIS JEFFERSON COUNTY HIGHWAY DEPARTMENT	CULVERT PLAN DETAILS STRUCTURE NO. 041-5077	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3304 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.002959		CHECKED - S.W.M.	REVISED -			91	09-06122-00-BR	JEFFERSON	37	23
	PLOT SCALE =	DRAWN - D.A.B.	REVISED -			FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
	PLOT DATE = 2/28/2012	CHECKED - S.W.M.	REVISED -		SHEET NO. 2 OF 4 SHEETS		ILLINOIS	FED. AID PROJECT BROS-0081(063)		



SECTION A-A



PLAN

FILE NAME = 110266-sht-oulvert.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -
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	PLOT SCALE =	DRAWN - D.A.B.	REVISED -
	PLOT DATE = 2/20/2012	CHECKED - S.W.M.	REVISED -

STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

RIPRAP LAYOUT
STRUCTURE NO. 041-5077
SHEET NO. 3 OF 4 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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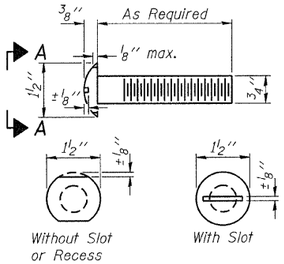
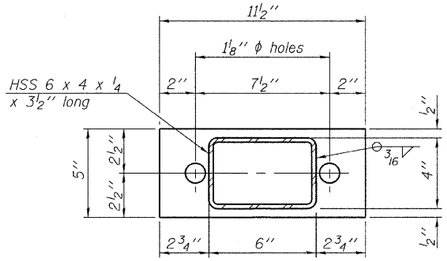
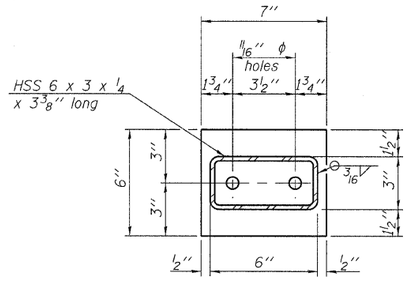
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
ILLINOIS	FED. AID PROJECT BROS-0081(063)			



VIEW A-A
ROUND HEAD BOLT

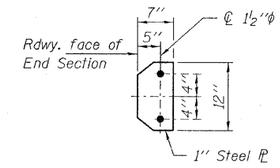


PL 1/2" x 11 1/2" x 5"

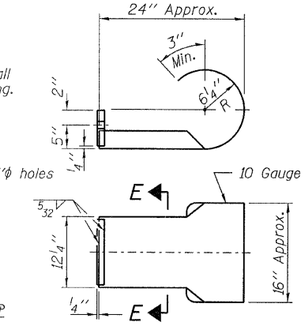


PL 1/2" x 7" x 6"

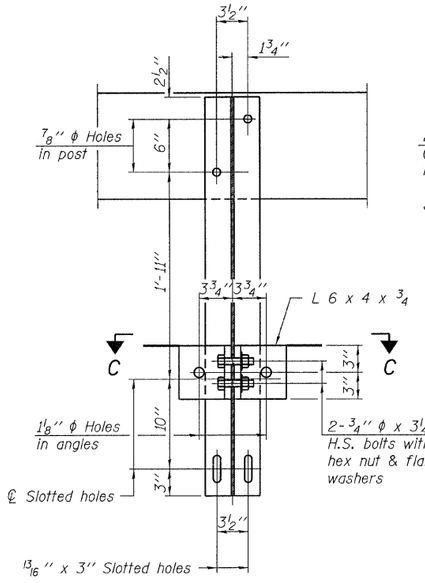
Note: Cost of curled end sections shall be included with the Steel Railing. (4 Required)



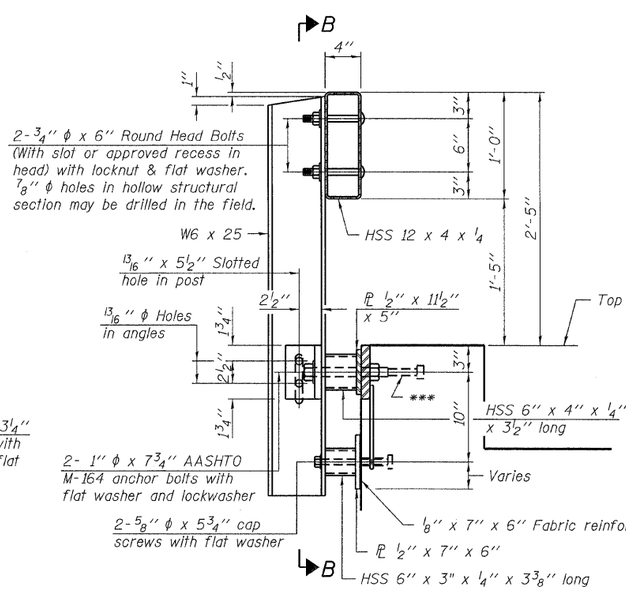
SECTION E-E



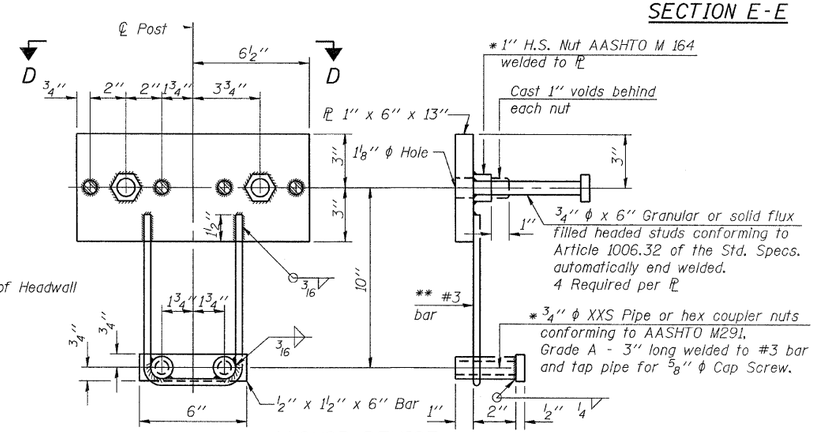
CURLED END SECTION DETAILS



SECTION B-B



SECTION AT RAILING POST



ANCHOR DEVICE

* Threaded areas shall be plugged or blocked off during casting of beam.

Notes:

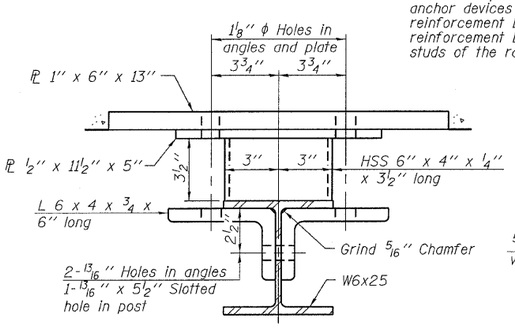
All field drilled holes shall be coated with an approved zinc rich paint before erection.

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.

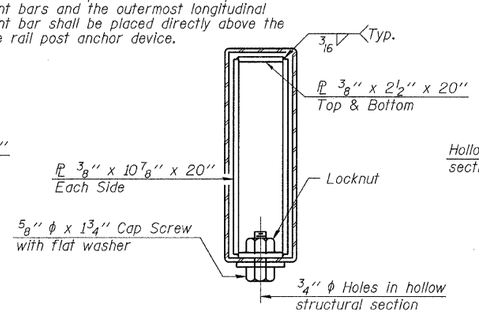
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

*** 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.

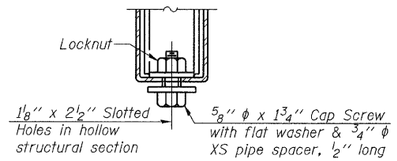
** Reinforcement bars in the top of the headwall may be placed with a 1 1/2" minimum clearance in the area of the rail post anchor devices. The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.



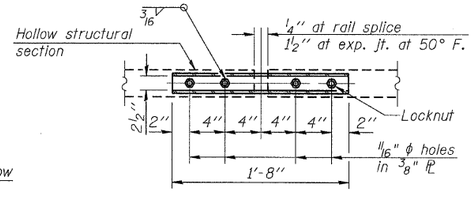
SECTION C-C



SECTIONS AT RAIL SPLICE

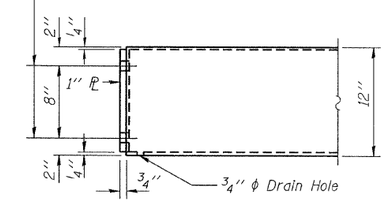


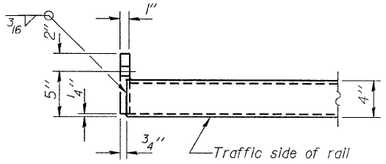
RAIL SPLICE CONNECTION
AT EXPANSION JT.



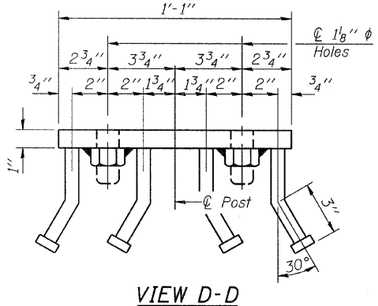
PLAN-BOTT. SPLICE PL
TYPICAL

1 1/8" ϕ Holes for 1" ϕ x 4" Round head bolts. Provide 2 flat washers & locknuts for guard rail connection shown on Hwy Std. 631026 or BLR 27-1.





END OF RAIL DETAILS



VIEW D-D

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	52

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

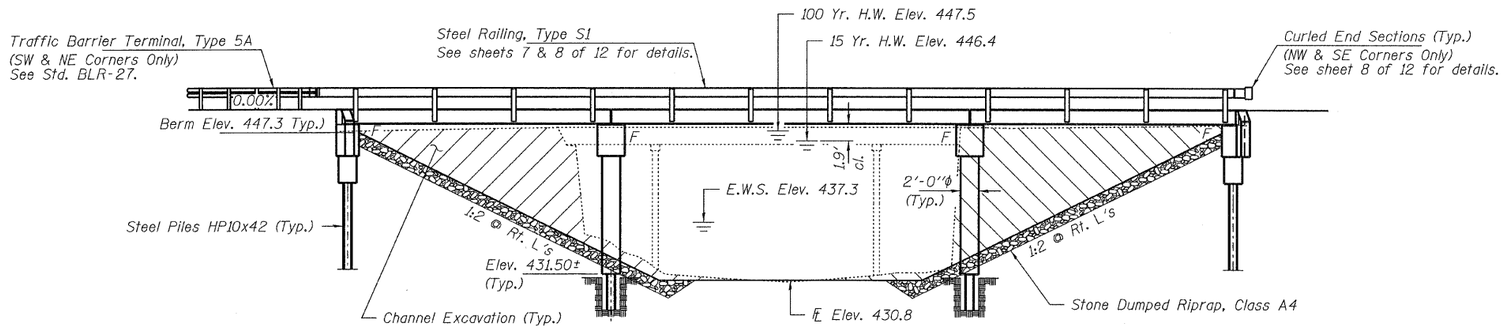
FILE NAME = 110266-sht-culvert.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -	STATE OF ILLINOIS JEFFERSON COUNTY HIGHWAY DEPARTMENT
HAMPTON, LENZINI AND RENWICK, INC. 3088 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000859		CHECKED - S.W.M.	REVISED -	
	PLOT SCALE =	DRAWN - D.A.B.	REVISED -	STEEL RAILING, TYPE S-1 STRUCTURE NO. 041-5077
	PLOT DATE = 2/20/2012	CHECKED - S.W.M.	REVISED -	SHEET NO. 4 OF 4 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	25
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
ILLINOIS	FED. AID PROJECT BROS-0081(063)			

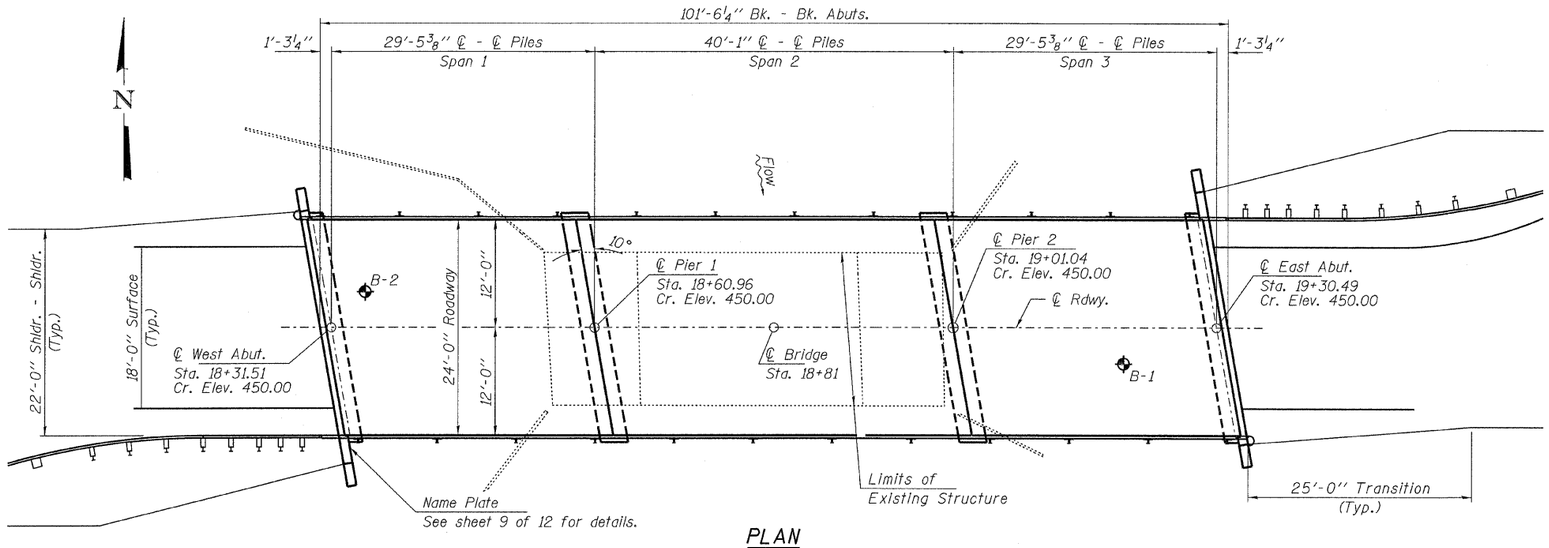
BENCHMARK: Yellow bench tie in power pole. 32' Lt., Sta. 20+28, Elev. 452.66

EXISTING STRUCTURE: Three span I-beam bridge with timber deck on closed timber abutments and wingwalls. 43.0' fc.-fc. abuts., 19.9' o.-o. deck. Str. No. 041-3073 Structure closed to traffic during construction.

No Salvage



ELEVATION



PLAN

GENERAL NOTES

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

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.

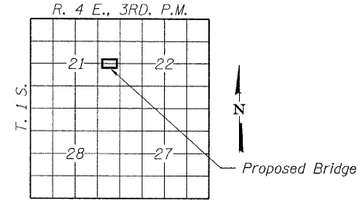
All proposed construction activities shall be in accordance with Nationwide Permit number 14 of the Department of the Army authorized under Section 404 of the Clean Water Act. The IEPA has issued Section 401 Water Quality Certification for this activity. See Special Provisions for conditions.

INDEX OF STRUCTURE SHEETS

HORSE CREEK
BUILT 201_ BY
JEFFERSON COUNTY
SEC. 09-06122-00-BR
FARRINGTON ROAD DISTRICT
STR. NO. 041-3748
LOADING HL-93

NAME PLATE

See Std. 515001



LOCATION SKETCH

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 (½"ϕ low lax. strands)
fpbt = 201,960 psi (½"ϕ low lax. strands)
fy = 60,000 psi (Reinf.)

LOADING HL-93

Design Specifications: 2010 AASHTO LRFD with all applicable interims.
50#/Sq. Ft. included in dead load for future wearing surface.

SEISMIC DATA

Seismic Performance Zone (SPZ) = 2
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.284g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.680g
Soil Site Class = D

DESIGN SCOUR ELEVATION TABLE

Design Scour Elevation (ft.)	W. Abut.	Pier 1	Pier 2	E. Abut.
	444.7	429.0	429.0	444.7

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

Steven Wegginson 2/23/2012
ILLINOIS STRUCTURAL NO. 081-6064 Expires 11-30-2012

LICENSED STRUCTURAL ENGINEER
STEVEN W. MEGGINSON
081-6064
SPRINGFIELD, IL
STATE OF ILLINOIS

TOTAL BILL OF MATERIAL

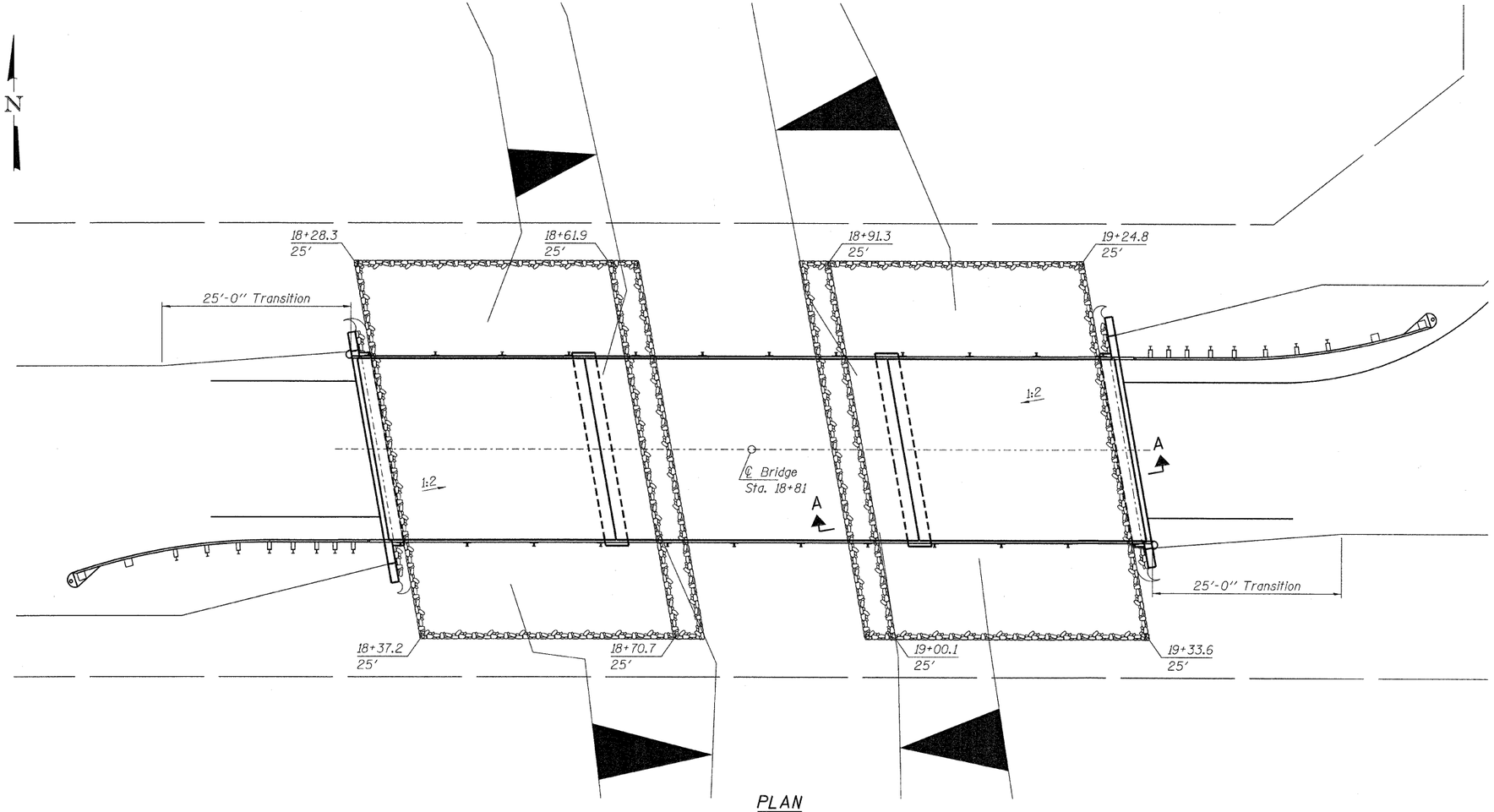
ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.			460
Stone Dumped Riprap, Class A4	Ton			360
Removal of Existing Structures No. 2	Each			1
Cofferdam (Type 1) (Location 1)	Each			1
Cofferdam (Type 1) (Location 2)	Each			1
Concrete Structures	Cu. Yd.		42.8	42.8
Concrete Encasement	Cu. Yd.		14.8	14.8
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	2,400		2,400
Reinforcement Bars	Pound		4,300	4,300
Steel Railing, Type S1	Foot	205		205
Furnishing Steel Piles HP10x42	Foot		336	336
Driving Piles	Foot		160	160
Name Plates	Each		1	1
Setting Piles in Rock	Each		8	8

FILE NAME = 110266-sht-bridge.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3065 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000509		CHECKED - S.W.M.	REVISED -
	PLOT SCALE =	DRAWN - D.A.B.	REVISED -
	PLOT DATE = 2/20/2012	CHECKED - S.W.M.	REVISED -

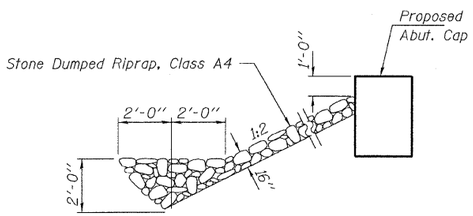
STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

GENERAL PLAN & ELEVATION
STRUCTURE NO. 041-3748
SHEET NO. 1 OF 12 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	26
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
		ILLINOIS	FED. AID PROJECT BROS-0081(063)	



PLAN



SECTION A-A

Note: See Special Provisions for Stone Dumped Riprap, Class A4

WATERWAY INFORMATION

Drainage Area = 43.2 sq. mi.

Existing Low Grade Elevation = 446.9 ft. at Sta. 13+00

Proposed Low Grade Elevation = 447.0 ft. at Sta. 13+00

Flood		Discharge (cfs)	Waterway Opening (sq. ft.)		Natural H.W.E	Head (ft.)		Headwater Elev.	
			Existing	Proposed		Existing	Proposed	Existing	Proposed
10 yr	Bridge -Main Channel		530	690					
	Culvert - Overflow		190	200					
	Total	**4880**	**720**	**890**	**446.2**	**1.19**	**0.79**	**447.3**	**446.9**
30 yr	Bridge -Main Channel		530	710					
	Culvert - Overflow		190	200					
	Total	**5540**	**720**	**910**	**446.4**	**1.12**	**0.72**	**447.5**	**447.1**
100 yr	Bridge -Main Channel		530	800					
	Culvert - Overflow		190	200					
	Total	**8870**	**720**	**1000**	**447.5**	**0.60**	**0.36**	**448.1**	**447.8**
500 yr	Bridge -Main Channel		530	860					
	Culvert - Overflow		190	200					
	Total	**12000**	**720**	**1060**	**448.3**	**0.39**	**0.41**	**448.7**	**448.7**

10 Year Velocity Through Existing Bridge (fps) = 6.8

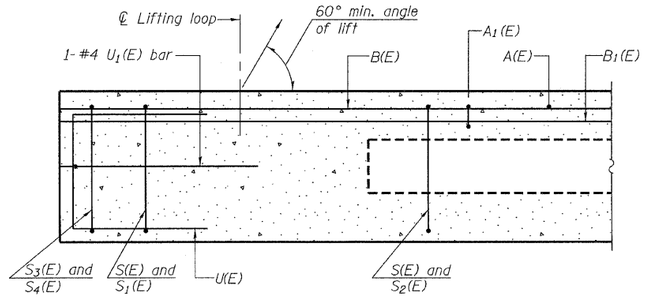
10 Year Velocity Through Proposed Bridge (fps) = 5.9

FILE NAME = 110266-sht-bridge.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - S.W.M.	REVISED -
	PLOT SCALE =	DRAWN - D.A.B.	REVISED -
	PLOT DATE = 2/20/2012	CHECKED - S.W.M.	REVISED -

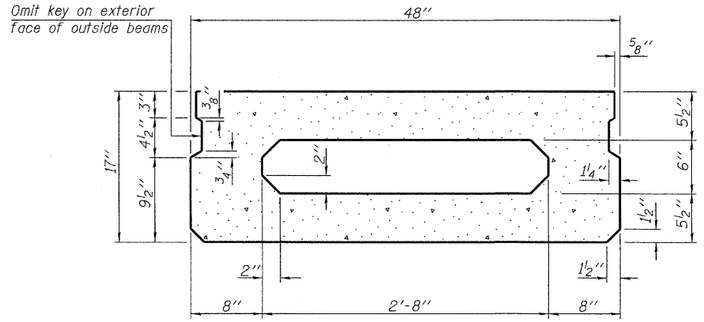
STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

RIPRAP DETAILS
STRUCTURE NO. 041-3748
SHEET NO. 2 OF 12 SHEETS

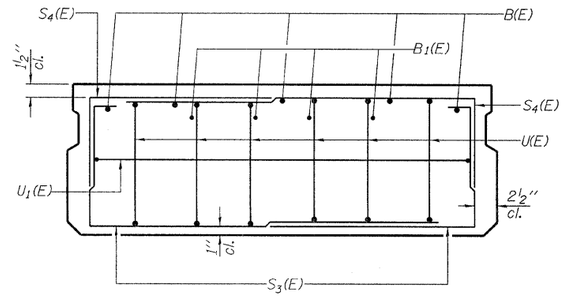
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	27
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
	ILLINOIS	FED. AID PROJECT BROS-0081(063)		



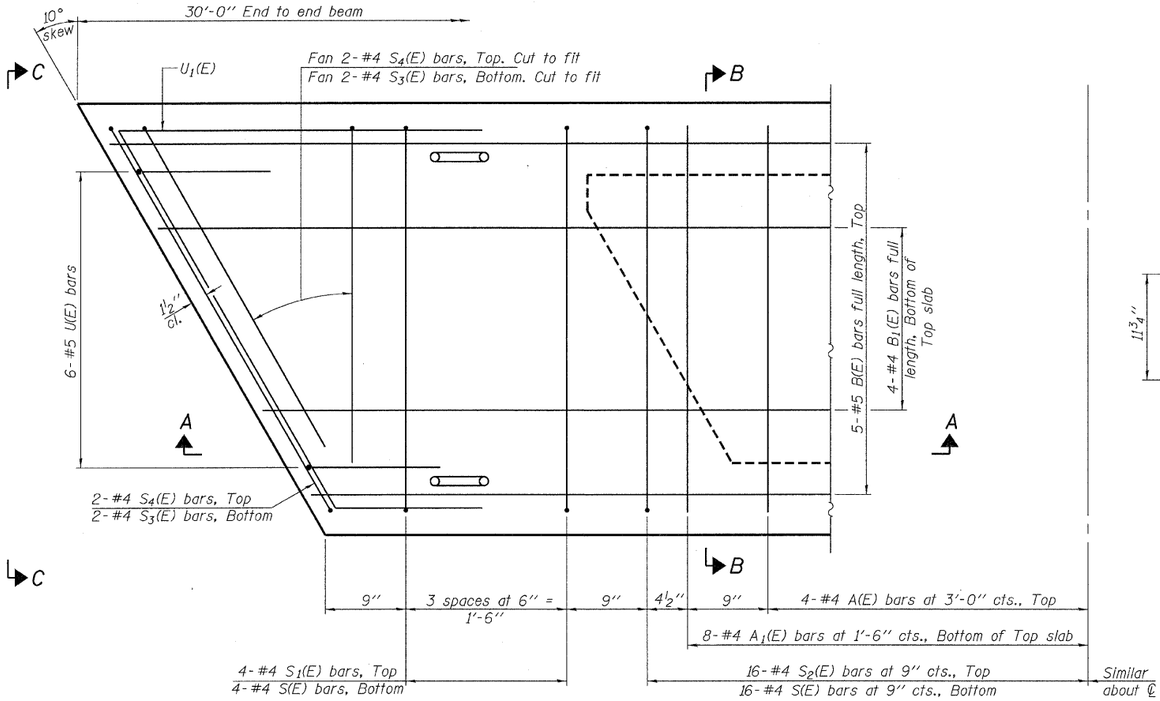
SECTION A-A



SECTION B-B
(Showing dimensions)

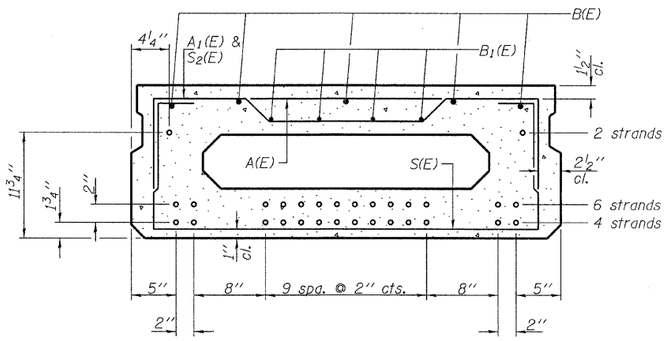


VIEW C-C



PLAN VIEW

Note: Spacing of S(E) and $S_2(E)$ 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.



SECTION B-B
(Showing reinforcement and permissible strand locations)

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

MINIMUM BAR LAP
#4 bar = 2′-0″
#5 bar = 2′-6″

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	8	#4	3′-7″	—
$A_1(E)$	16	#4	3′-10″	⌇
B(E)	5	#5	29′-8″	—
$B_1(E)$	4	#4	29′-8″	—
S(E)	40	#4	6′-9″	⊐
$S_1(E)$	8	#4	5′-3″	⊐
$S_2(E)$	32	#4	5′-6″	⊐
$S_3(E)$	8	#4	4′-4″	⌐
$S_4(E)$	8	#4	3′-7″	⌐
U(E)	12	#5	3′-8″	⊏
$U_1(E)$	2	#4	6′-8″	⊏

Note: See sheets 4 & 7 of 12 for additional details and Bill of Material.

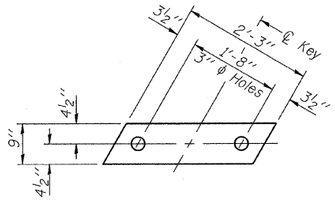
PD-1748-R 7-1-10

FILE NAME = 110266-sht-bridge.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.003959		CHECKED - S.W.M.	REVISED -
	PLOT SCALE =	DRAWN - D.A.B.	REVISED -
	PLOT DATE = 2/20/2012	CHECKED - S.W.M.	REVISED -

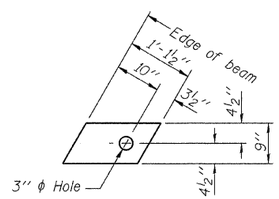
STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

17″ x 48″ PPC DECK BEAM – SPANS 1 & 3
STRUCTURE NO. 041-3748
SHEET NO. 3 OF 12 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	28
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
	ILLINOIS	FED. AID PROJECT BROS-0081(063)		



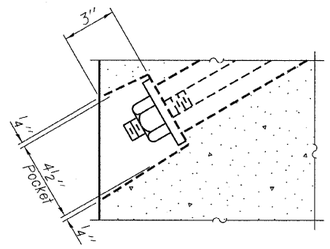
FABRIC BEARING PAD
(Interior - 20 Req'd)



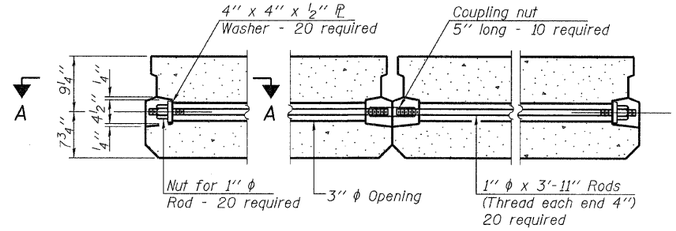
FABRIC BEARING PAD
(Exterior - 8 Req'd)

FIXED

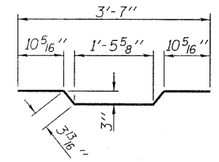
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



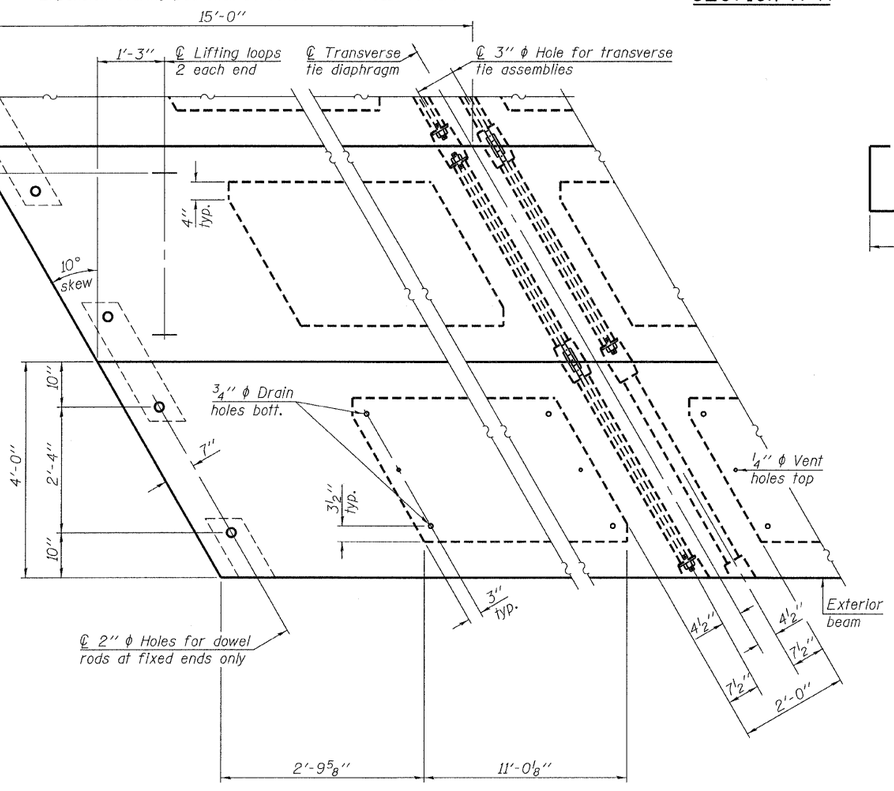
SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY

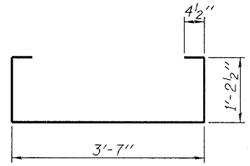


BAR A_1(E)

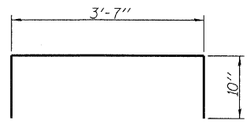


PLAN VIEW

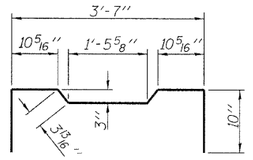
Note: Connect beams in pairs with the transverse tie configuration shown.



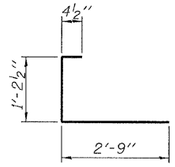
BAR S(E)



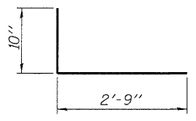
BAR S_1(E)



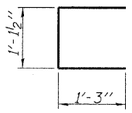
BAR S_2(E)



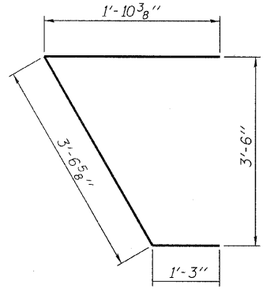
BAR S_3(E)



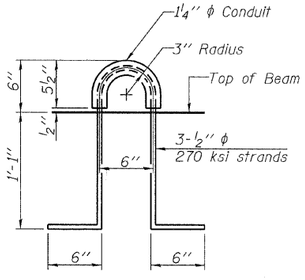
BAR S_4(E)



BAR U(E)



BAR U_1(E)



LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" 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 ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

All reinforcement shall be epoxy coated.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	1,440

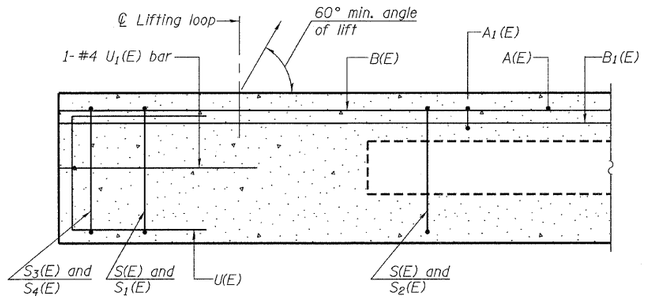
PD-1748-RD 7-1-10

FILE NAME = 110266-sht-bridge.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -	
HAMPTON, LENZINI AND RENWICK, INC. 3065 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.005959		CHECKED - S.W.M.	REVISED -	
	PLOT SCALE =	DRAWN - D.A.B.	REVISED -	
	PLOT DATE = 2/20/2012	CHECKED - S.W.M.	REVISED -	

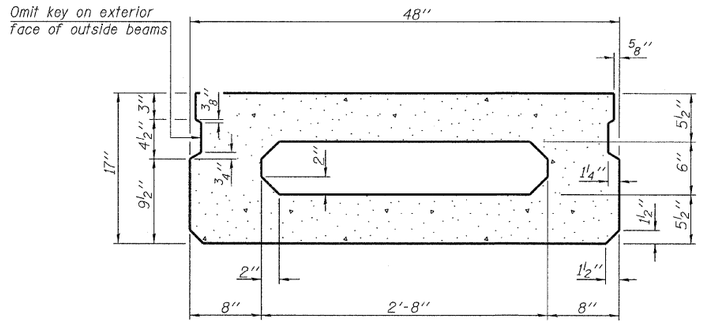
STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

17" x 48" PPC DECK BEAM DETAILS – SPANS 1 & 3
STRUCTURE NO. 041-3748
SHEET NO. 4 OF 12 SHEETS

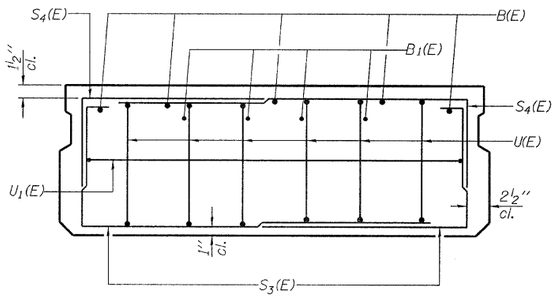
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	29
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
ILLINOIS	FED. AID PROJECT BROS-0081(063)			



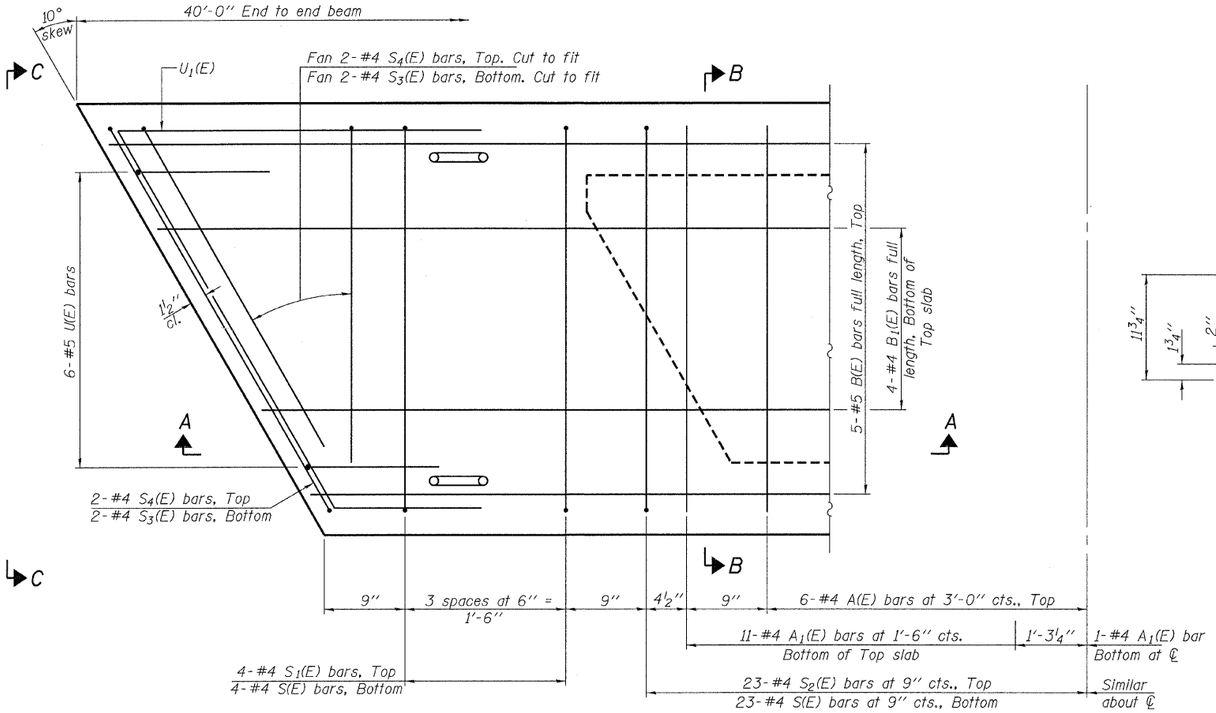
SECTION A-A



SECTION B-B
(Showing dimensions)

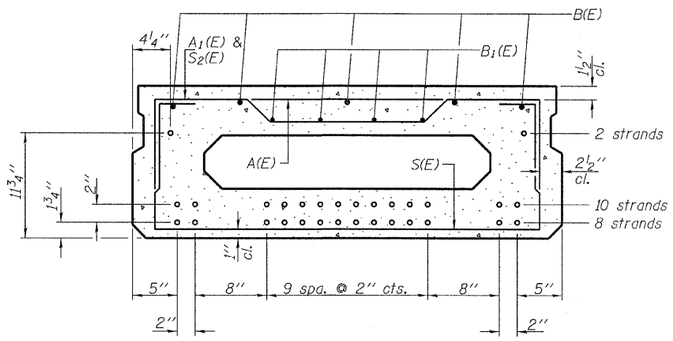


VIEW C-C



PLAN VIEW

Note:
Spacing of S(E) and S_2(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.



SECTION B-B
(Showing reinforcement and permissible strand locations)

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

MINIMUM BAR LAP
#4 bar = 2'-0"
#5 bar = 2'-6"

BAR LIST
ONE BEAM ONLY
(For information only)

Bar	No.	Size	Length	Shape
A(E)	12	#4	3'-7"	—
A_1(E)	23	#4	3'-10"	≈
B(E)	5	#5	39'-8"	—
B_1(E)	4	#4	39'-8"	—
S(E)	54	#4	6'-9"	—
S_1(E)	8	#4	5'-3"	—
S_2(E)	46	#4	5'-6"	—
S_3(E)	8	#4	4'-4"	—
S_4(E)	8	#4	3'-7"	—
U(E)	12	#5	3'-8"	U
U_1(E)	2	#4	6'-8"	—

Note: See sheets 6 & 7 of 12 for additional details and Bill of Material.

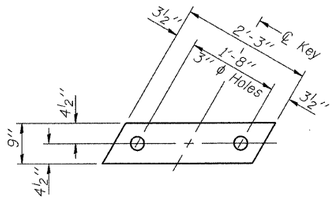
PD-1748-R 7-1-10

FILE NAME = 112266-sht-bridge.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3068 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - S.W.M.	REVISED -
	PLOT SCALE =	DRAWN - D.A.B.	REVISED -
	PLOT DATE = 2/20/2012	CHECKED - S.W.M.	REVISED -

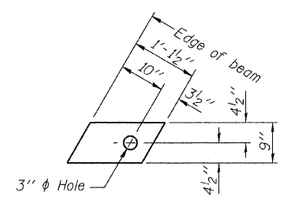
STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

17" x 48" PPC DECK BEAM – SPAN 2
STRUCTURE NO. 041-3748
SHEET NO. 5 OF 12 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	30
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
	ILLINOIS FED. AID PROJECT BROS-008I(063)			



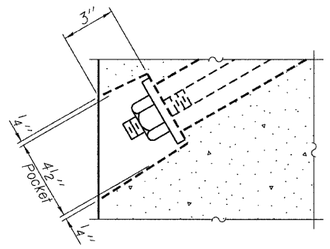
FABRIC BEARING PAD
(Interior - 10 Req'd)



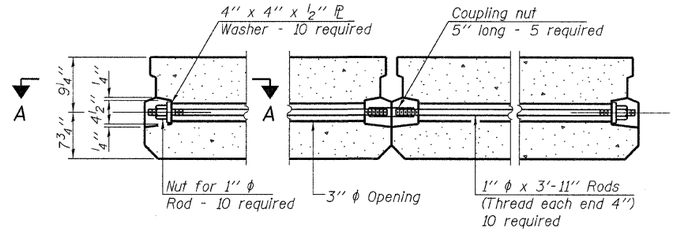
FABRIC BEARING PAD
(Exterior - 4 Req'd)

FIXED

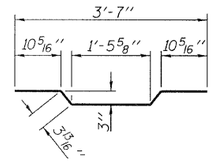
Notes:
All bearing pads shall be 1" thick.
Omit holes when using expansion bearings.
Expansion bearing pad shall be bonded to the substructure.



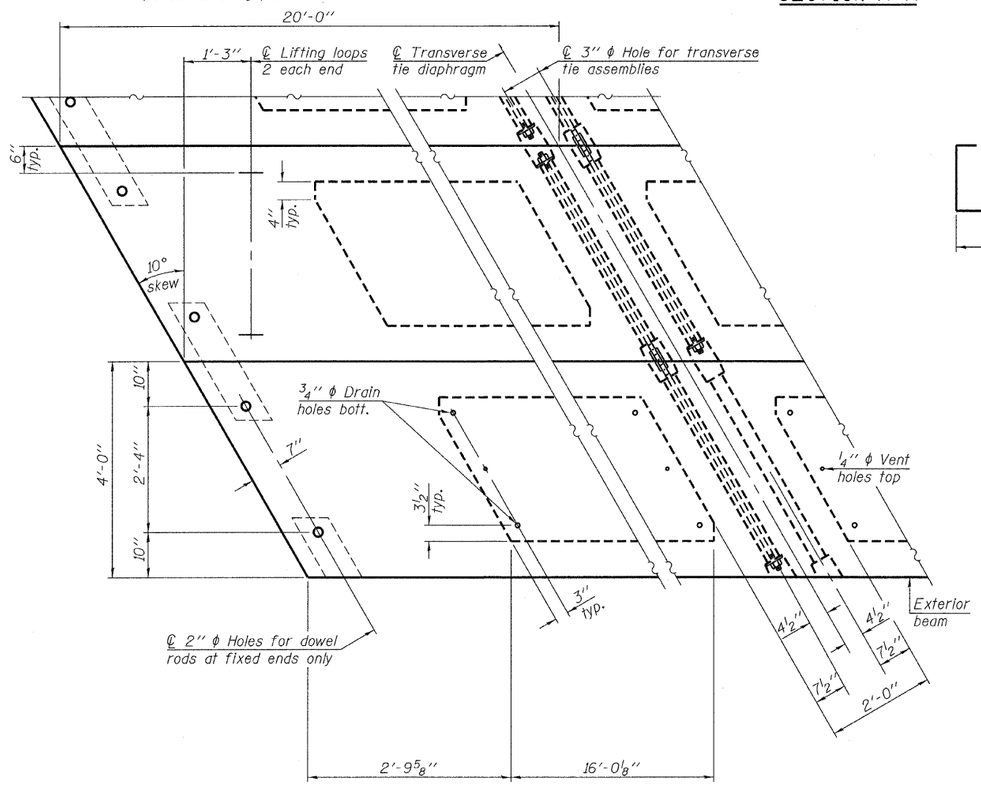
SECTION A-A



TYPICAL TRANSVERSE TIE ASSEMBLY

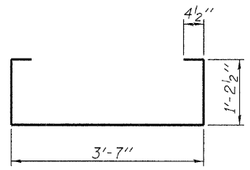


BAR A_1(E)

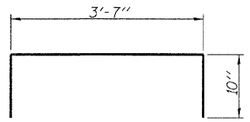


PLAN VIEW

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



BAR S(E)



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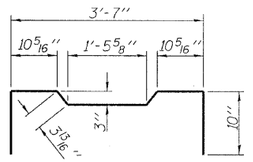

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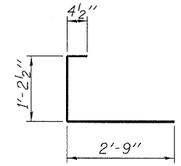

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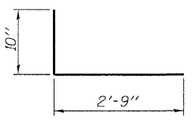

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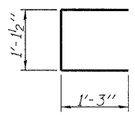
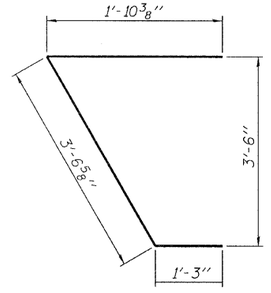


BAR U(E)



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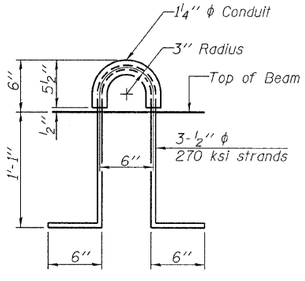


LIFTING LOOP DETAIL

NOTES

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be ½" 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 ⅛" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location.

A minimum 2½" ϕ lifting pin shall be used to engage the lifting loops during handling.

Corrosion Inhibitor, per Article 1020.05(b)(12) and 1021.06 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams.

Compressive strength of prestressed concrete, f'c, shall be 6000 psi.

Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi.

All reinforcement shall be epoxy coated.

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	960

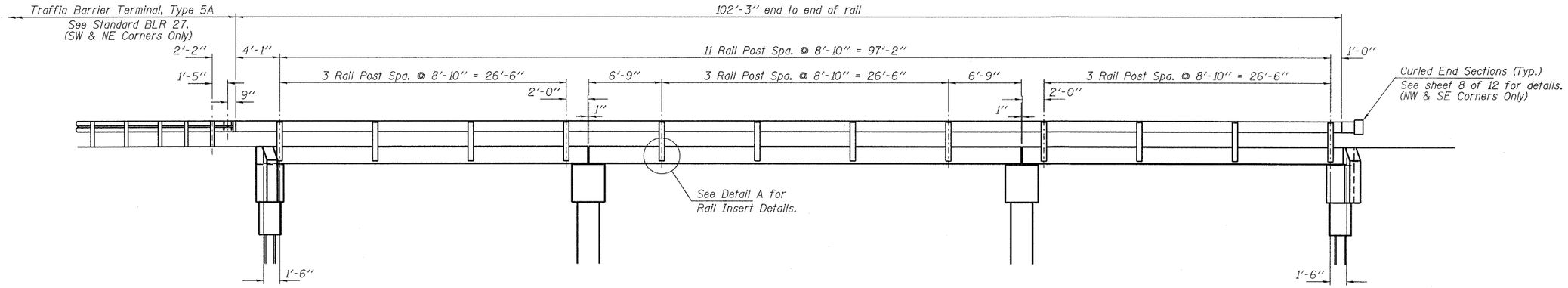
PD-1748-RD 7-1-10

FILE NAME = 112266-sht-bridge.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -	
HAMPTON, LENZINI AND RENWICK, INC. 3083 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - S.W.M.	REVISED -	
	PLOT SCALE =	DRAWN - D.A.B.	REVISED -	
	PLOT DATE = 2/20/2012	CHECKED - S.W.M.	REVISED -	

STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

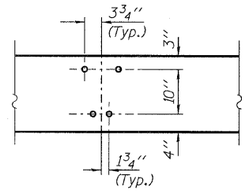
17" x 48" PPC DECK BEAM DETAILS – SPAN 2
STRUCTURE NO. 041-3748
SHEET NO. 6 OF 12 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	31
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
ILLINOIS	FED. AID PROJECT BROS-008(1063)			

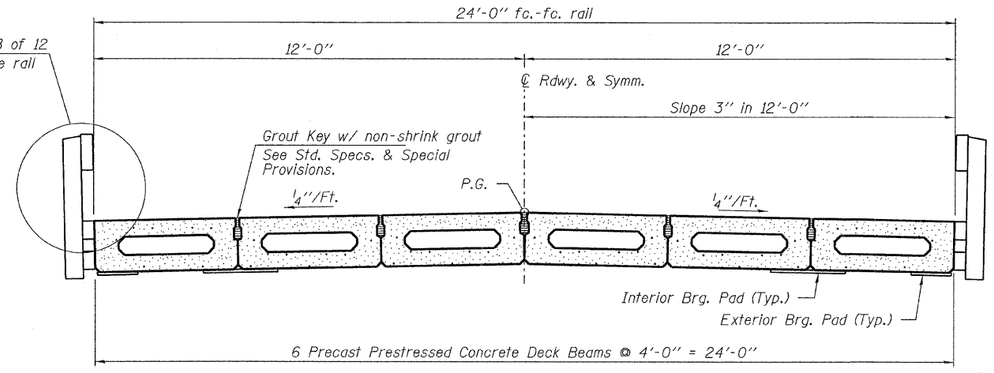


ELEVATION

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

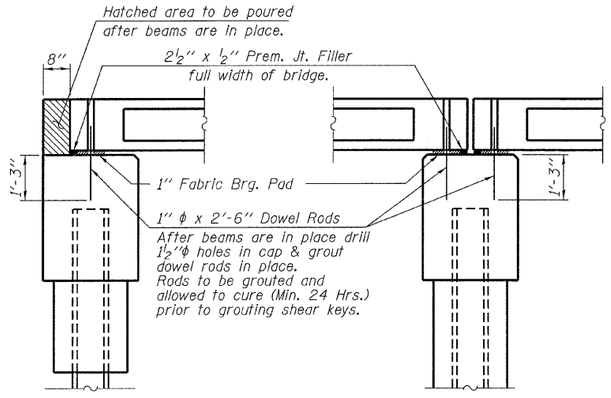


DETAIL A



CROSS SECTION

See sheets 2 thru 6 of 12 for Superstructure.



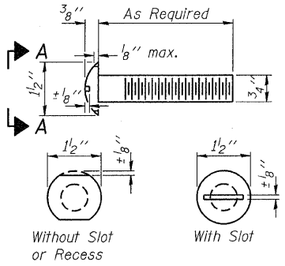
SECTION AT ABUTMENTS

@ Rt. L's

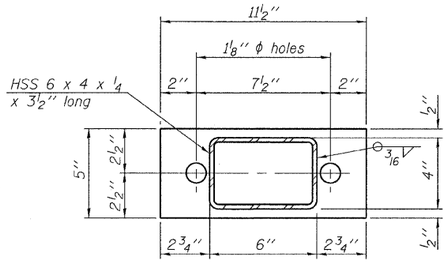
SECTION AT PIERS

@ Rt. L's

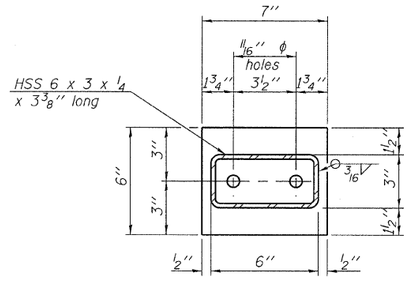
FILE NAME = 112266-sht-bridge.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -	STATE OF ILLINOIS JEFFERSON COUNTY HIGHWAY DEPARTMENT	SUPERSTRUCTURE DETAILS STRUCTURE NO. 041-3748 SHEET NO. 7 OF 12 SHEETS	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3068 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LB / PE / SE CORP. 184.000859		CHECKED - S.W.M.	REVISED -			91	09-06122-00-BR	JEFFERSON	37	32
	PLOT SCALE =	DRAWN - D.A.B.	REVISED -			FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
	PLOT DATE = 2/20/2012	CHECKED - S.W.M.	REVISED -			ILLINOIS	FED. AID PROJECT BROS-0081(063)			



VIEW A-A
ROUND HEAD BOLT

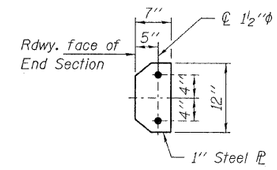


PL 1/2" x 11 1/2" x 5"

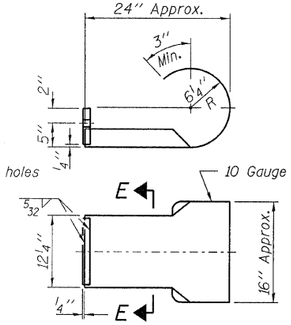


PL 1/2" x 7" x 6"

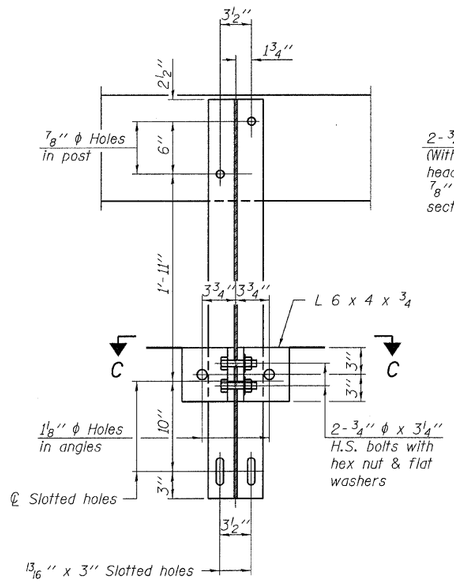
Note: Cost of curled end sections shall be included with the Steel Railing. (2 Required)



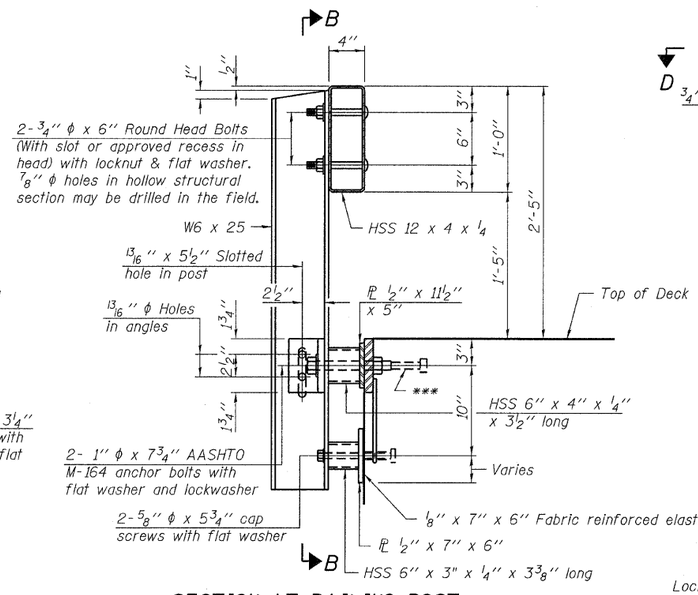
SECTION E-E



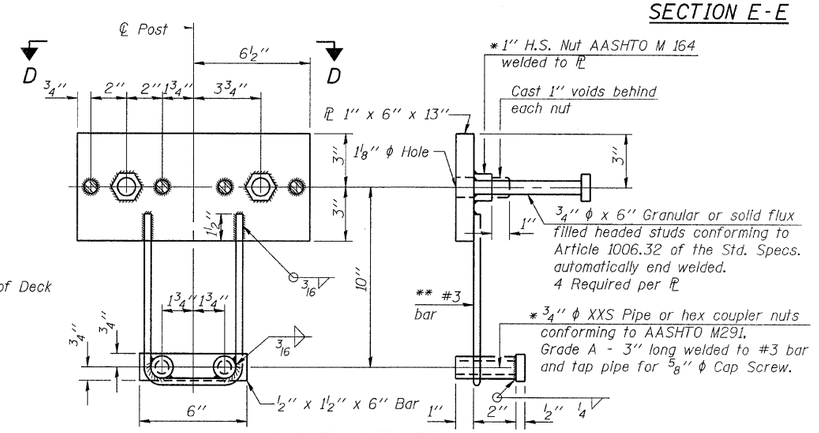
CURLED END SECTION DETAILS



SECTION B-B



SECTION AT RAILING POST



ANCHOR DEVICE

* Threaded areas shall be plugged or blocked off during casting of beam.

Notes:

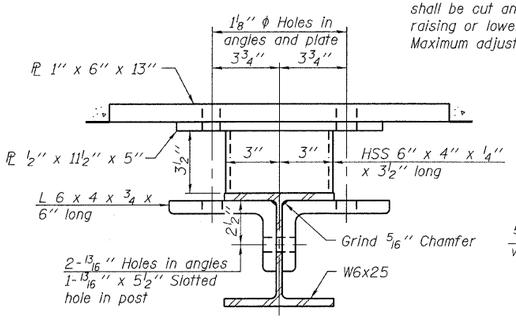
All field drilled holes shall be coated with an approved zinc rich paint before erection.

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.

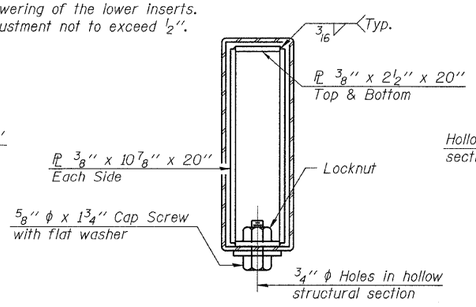
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.

*** 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.

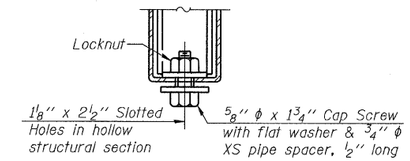
** Whenever the lower insert assemblies interfere with strand locations, the #3 bars shall be cut and adjusted in order to allow raising or lowering of the lower inserts. Maximum adjustment not to exceed 1/2".



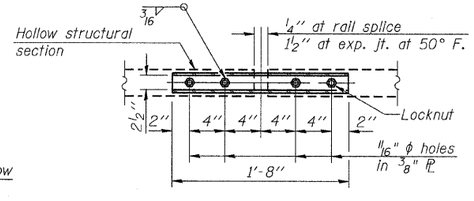
SECTION C-C



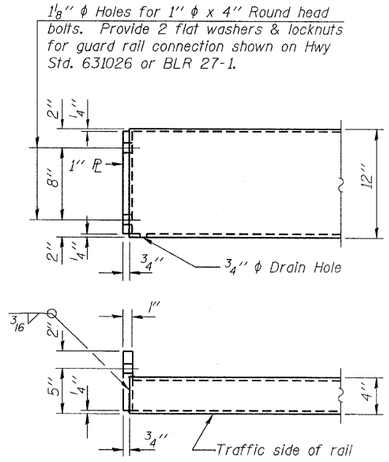
SECTIONS AT RAIL SPLICE



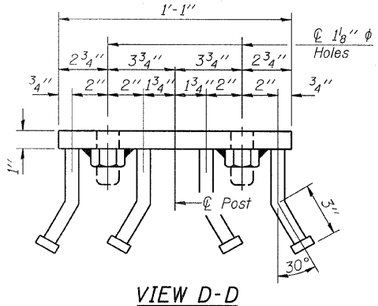
RAIL SPLICE CONNECTION AT EXPANSION JT.



PLAN-BOTT. SPLICE PL TYPICAL



STEEL RAILING, TYPE S-1
END OF RAIL DETAILS



VIEW D-D

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	205

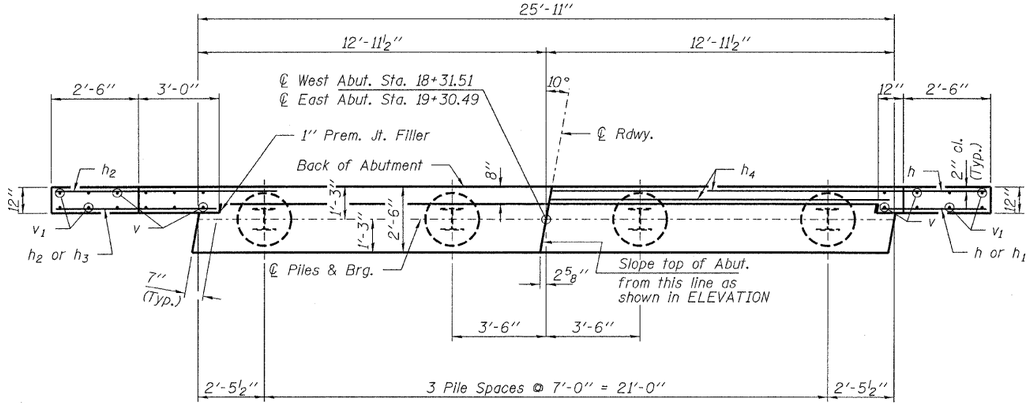
R-23A 7-1-10 (10'-9" Maximum Post Spacing)

FILE NAME = 118266-sht-bridge.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3365 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		CHECKED - S.W.M.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	DRAWN - D.A.B.	REVISED -
	PLOT DATE = 2/28/2012	CHECKED - S.W.M.	REVISED -

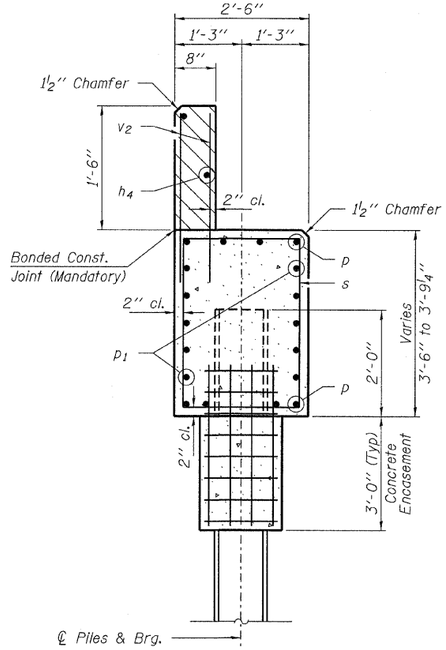
STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

STEEL RAILING, TYPE S-1
STRUCTURE NO. 041-3748
SHEET NO. 8 OF 12 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	33
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
ILLINOIS	FED. AID PROJECT BROS-0081(063)			

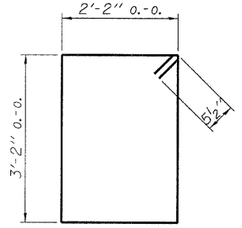


PLAN

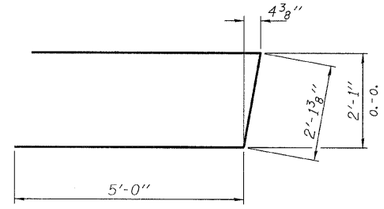


SECTION A-A

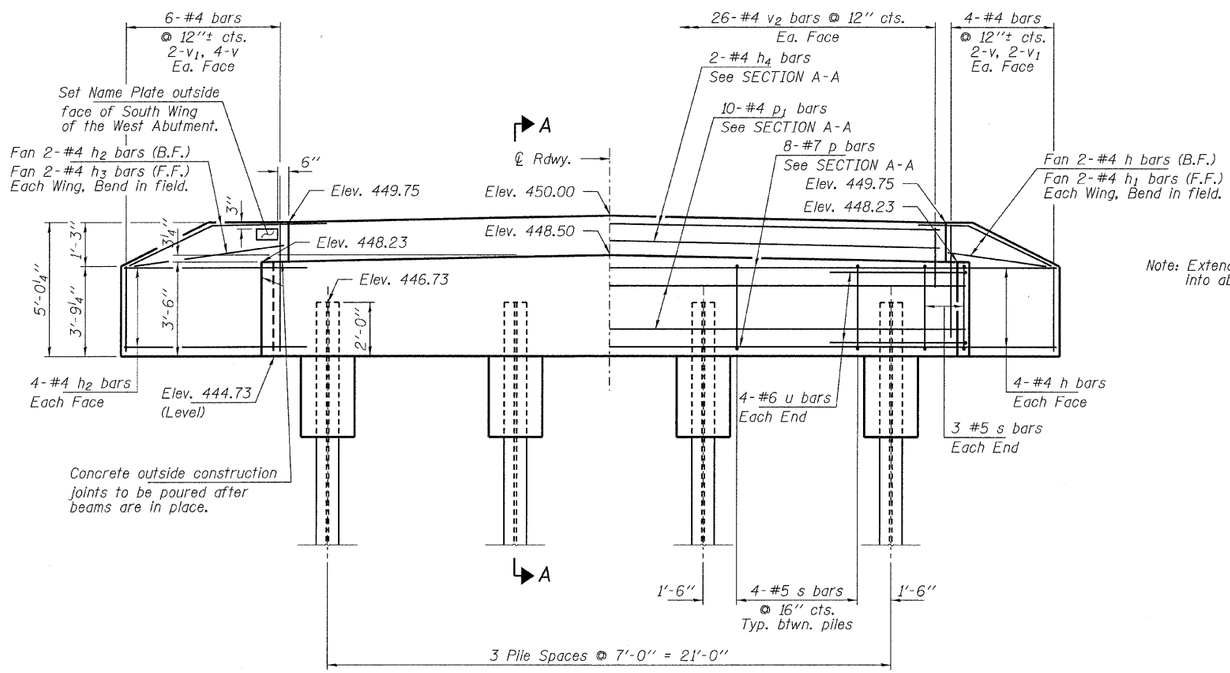
Hatched area to be poured after beams are in place.



BAR s



BAR u



ELEVATION

Note: Extend h & h_2 bars into abutment cap.

PILE DATA

Type _____ Steel HP10x42
No. Req'd. (2 Abuts.) _____ 8
Factored Resistance Available (Rf) _____ 184 Kips/Pile
Nominal Required Bearing (Rn) _____ 335 Kips/Pile
Est. Length _____ 20 Ft/Pile

BILL OF MATERIAL - 2 ABUTS.

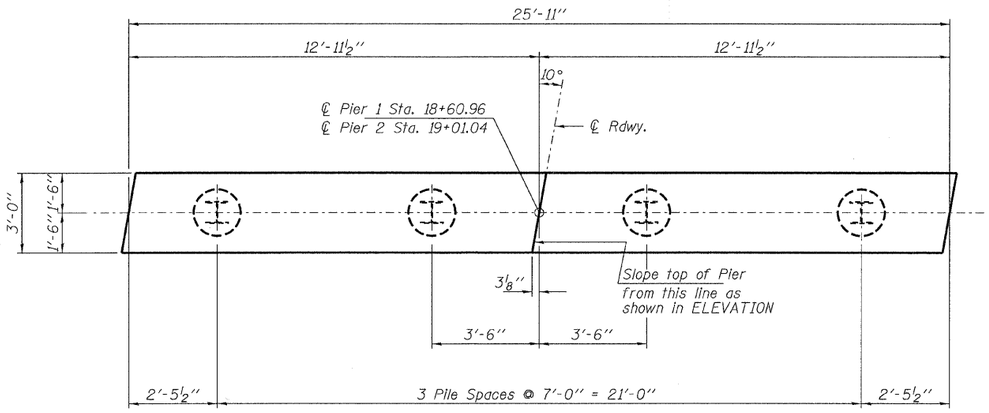
BAR	NO.	SIZE	LENGTH	SHAPE
h	20	#4	4'-9"	
h_1	4	#4	3'-3"	
h_2	20	#4	6'-9"	
h_3	4	#4	5'-3"	
h_4	4	#4	25'-7"	
p	16	#7	25'-7"	
p_1	20	#4	25'-7"	
s	36	#5	11'-7"	
u	16	#6	12'-2"	
v	24	#4	4'-6"	
v_1	16	#4	3'-6"	
v_2	104	#4	2'-4"	
Concrete Structures			Cu. Yd.	22.0
Concrete Encasement			Cu. Yd.	2.8
Reinforcement Bars			Pound	2,340
Steel Piles HP10x42			Foot	160
Name Plates			Each	1

FILE NAME = 110266-sht-bridge.dgn | USER NAME = | DESIGNED - A.S.L. | REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3095 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959 | | CHECKED - S.W.M. | REVISED -
PLOT SCALE = | DRAWN - D.A.B. | REVISED -
PLOT DATE = 2/20/2012 | CHECKED - S.W.M. | REVISED -

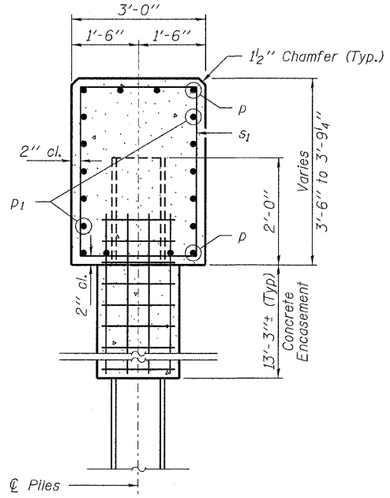
STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

ABUTMENTS
STRUCTURE NO. 041-3748
SHEET NO. 9 OF 12 SHEETS

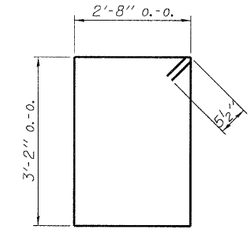
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	34
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
	ILLINOIS	FED. AID PROJECT BROS-0081(063)		



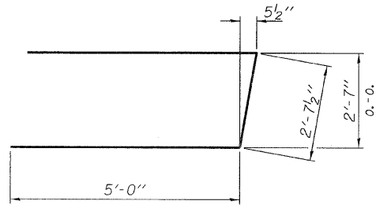
PLAN



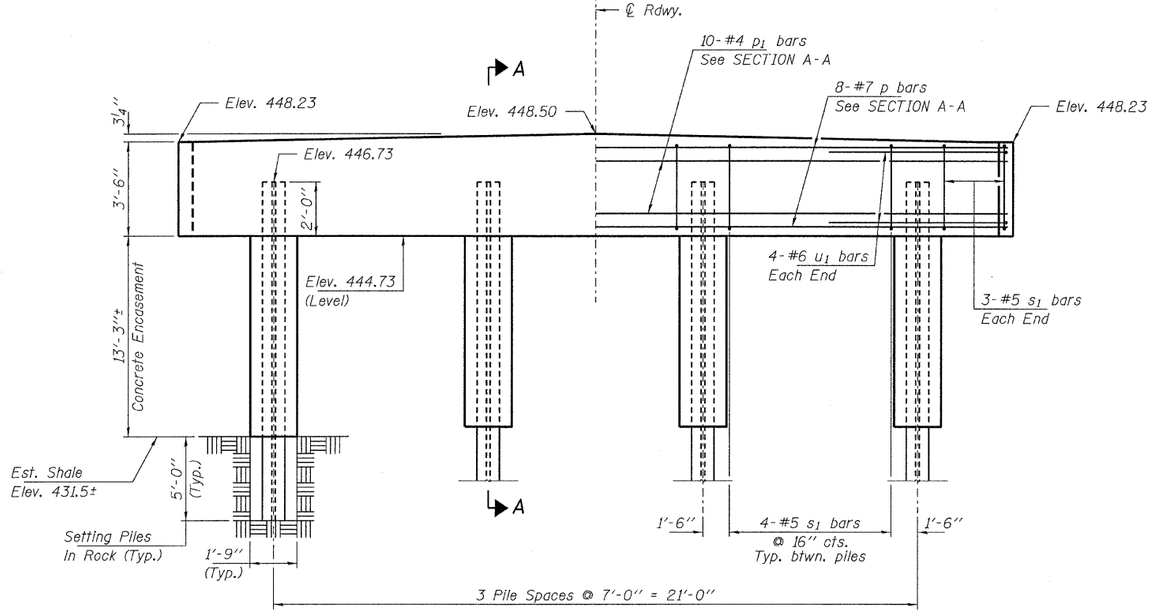
SECTION A-A



BAR s_1



BAR u_1



ELEVATION

PILE DATA

Type _____ Steel HP10x42
No. Req'd. (2 Piers) _____ 8
Factored Resistance Available ___ 184 Kips/Pile
Nominal Req'd Bearing _____ 335 Kips/Pile
Est. Length _____ 22 Ft/Pile

BILL OF MATERIAL - 2 PIERS

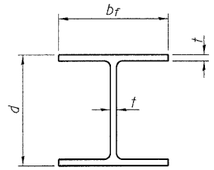
BAR	NO.	SIZE	LENGTH	SHAPE
p	16	#7	25'-7"	——
p_1	20	#4	25'-7"	——
s_1	36	#5	12'-7"	□
u_1	16	#6	12'-8"	▭
Concrete Structures			Cu. Yd.	20.8
Concrete Encasement			Cu. Yd.	12.0
Reinforcement Bars			Pound	1,960
Steel Piles HP10x42			Foot	176
Setting Piles in Rock			Each	8

FILE NAME = 110266-sht-bridge.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3088 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		CHECKED - S.W.M.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LB / PE / SE CORP. 184.000959	PLOT SCALE =	DRAWN - D.A.B.	REVISED -
	PLOT DATE = 2/20/2012	CHECKED - S.W.M.	REVISED -

STATE OF ILLINOIS
JEFFERSON COUNTY HIGHWAY DEPARTMENT

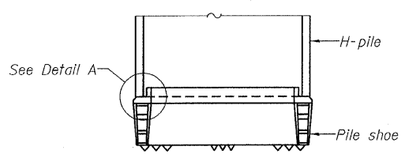
PIERS
STRUCTURE NO. 041-3748
SHEET NO. 10 OF 12 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	35
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
	ILLINOIS	FED. AID PROJECT BROS-0081(063)		

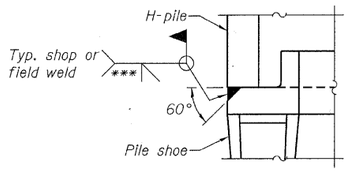


STEEL PILE TABLE

Designation	Depth d	Flange width b_f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	11/16"	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"	11/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"

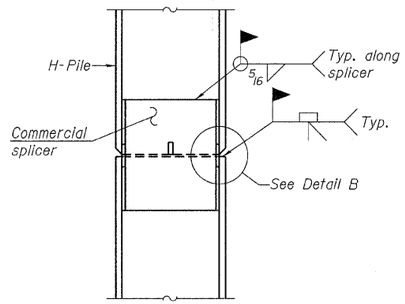


ELEVATION

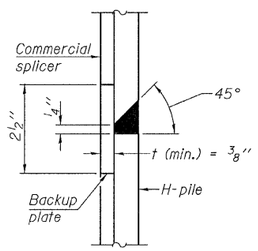


DETAIL A

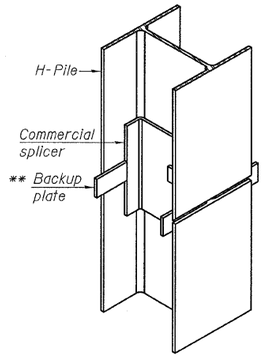
H-PILE SHOE ATTACHMENT



ELEVATION

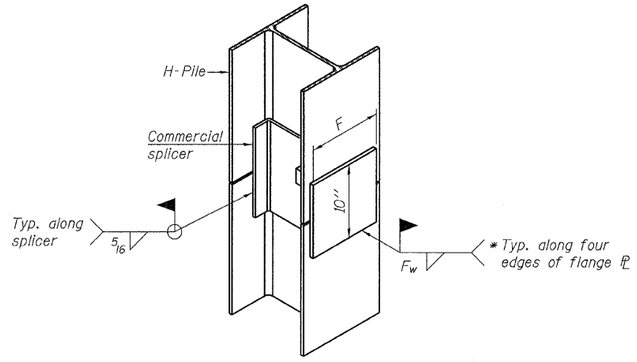


DETAIL "B"



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



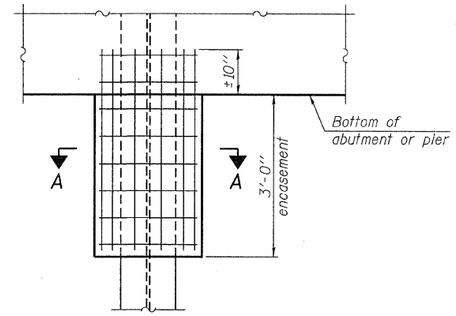
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

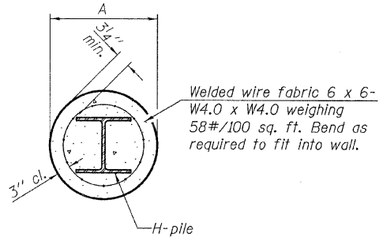
* Interrupt welds 1/4" from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

*** Weld size per pile shoe manufacturer (5/16" min.).



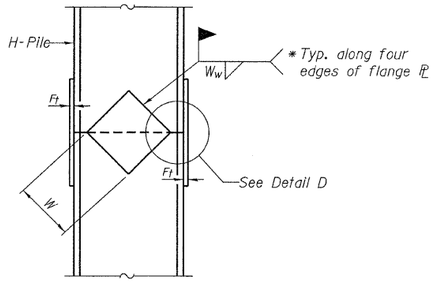
ELEVATION



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

SECTION A-A

PILE ENCASEMENT



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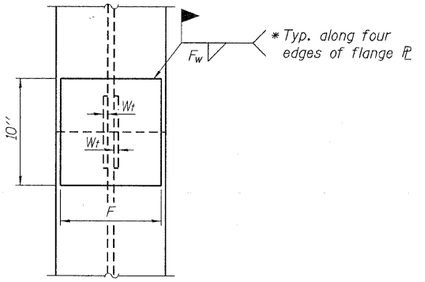
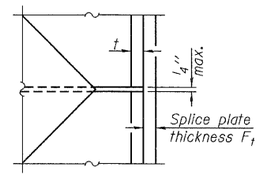


END VIEW



DETAIL D

Designation	F	F_t	F_w	W	W_t	W_w
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"	11/16"	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"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	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 PLATE FIELD SPLICE

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

F-HP 7-1-10

FILE NAME = 110266-sht-bridge.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -	STATE OF ILLINOIS JEFFERSON COUNTY HIGHWAY DEPARTMENT	HP PILE DETAILS STRUCTURE NO. 041-3748
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.005868		CHECKED - S.W.M.	REVISED -		SHEET NO. 11 OF 12 SHEETS
	PLOT SCALE =	DRAWN - D.A.B.	REVISED -		
	PLOT DATE = 2/20/2012	CHECKED - S.W.M.	REVISED -		

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	09-06122-00-BR	JEFFERSON	37	36
FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
ILLINOIS	FED. AID PROJECT BROS-0081(063)			

HOLCOMB FOUNDATION ENGINEERING INC.
P.O. Box 88 618-529-5262
Carbondale, Il. 62903 618-457-8991 fax

Page 1 of 1

Bridge Foundation Boring Log

Project: H-11193 Bridge TR 91 / Malecki Rd Date: 10/14/2011
Section: 09-06122-00-BR Station
Structure:
County: Jefferson

Bored by: J. Carter
Checked By: T. Holcomb

Boring No: 1
Station:
Offset:

Surface Water Elev.
Ground Water Elev. During Drilling 435.9
Upon Completion plugged

Elevation	N	Qu tsf	w %
Ground Surface 447.9	0		
1.5" A-3 over 6" Crushed Stone 447.2			
Gray Mottled Brown Silty CLAY to Sandy CLAY (A-6)	7	1.4B	23
-5	5	0.9B	26
	4	0.4S	23
-10	5	--	21
	5	1.1B	22
-15	6	0.3B	25
431.9			
Gray SHALE	100/4"	--	8
	100/4"	--	5
-20			
426.4	100/3"	--	5
End of Boring @ -21.5'			

Elevation	N	Qu tsf	w %
-25			
-30			
-35			
-40			

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"

Qu-Unconfined Compressive Strength in tons/sq.ft.
w-Water Content-percentage of oven dry weight-%

B = Bulge Failure
S = Shear Failure
E = Estimated Value
P = Penetrometer

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BORING 1

HOLCOMB FOUNDATION ENGINEERING INC.
P.O. Box 88 618-529-5262
Carbondale, Il. 62903 618-457-8991 fax

Page 1 of 1

Bridge Foundation Boring Log

Project: H-11193 Bridge TR 91 / Malecki Rd Date: 10/14/2011
Section: 09-06122-00-BR Station
Structure:
County: Jefferson

Bored by: J. Carter
Checked By: T. Holcomb

Boring No: 2
Station:
Offset:

Surface Water Elev.
Ground Water Elev. During Drilling 435.4
Upon Completion plugged

Elevation	N	Qu tsf	w %
Ground Surface 447.4	0		
1.5" A-3 over 6" Crushed Stone 446.8			
Gray Silty CLAY to Sandy CLAY (A-6)	5	1.7S	17
-5	4	1.0B	26
	3	1.0S	22
-10	3	1.0S	26
	2	0.2B	23
433.9			
Gray SAND (SP)	4	--	27
-15			
431.4			
Gray SHALE	100/3"	--	8
	100/2"	--	6
-20			
425.9	100/3"	--	6
End of Boring @ -21.5'			

Elevation	N	Qu tsf	w %
-25			
-30			
-35			
-40			

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"

Qu-Unconfined Compressive Strength in tons/sq.ft.
w-Water Content-percentage of oven dry weight-%

B = Bulge Failure
S = Shear Failure
E = Estimated Value
P = Penetrometer

5

BORING 2

FILE NAME = 110266-sht-bridge.dgn	USER NAME =	DESIGNED - A.S.L.	REVISED -	STATE OF ILLINOIS JEFFERSON COUNTY HIGHWAY DEPARTMENT	BORINGS STRUCTURE NO. 041-3748	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3365 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LB / PE / SE CORP. 184.000659		CHECKED - S.W.M.	REVISED -		SHEET NO. 12 OF 12 SHEETS	91	09-06122-00-BR	JEFFERSON	37	37
	PLOT SCALE =	DRAWN - D.A.B.	REVISED -			FARRINGTON ROAD DISTRICT		CONTRACT NO. 99471		
	PLOT DATE = 2/20/2012	CHECKED - S.W.M.	REVISED -			ILLINOIS	FED. AID PROJECT BROS-0081(063)			