04-28-2017 LETTING ITEM 148

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 199	11-03112 -00-BR	KANE	39	1
FED. ROAD DIST. NO.	ILLINOIS	CONTRACT NO. 61D84		

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

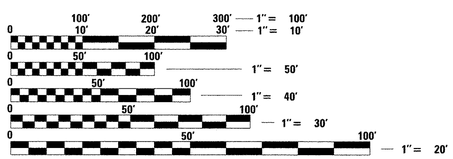
FOR INDEX OF SHEETS AND HIGHWAY STANDARDS, SEE SHEET NO. 2

PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

T.R. 199 (PRICE ROAD)
OVER BIG ROCK CREEK
BRIDGE REPLACEMENT
SECTION 11–03112–00–BR
PROJECT BROS–0089(181)
BIG ROCK TOWNSHIP
KANE COUNTY
C–91–327–14

LOCATION OF SECTION INDICATED THUS: –

FUNCTIONAL CLASSIFICATION:	LOCAL URBAN
DESIGN / POSTED SPEED:	45 MPH
DESIGN TRAFFIC:	315 ADT (2040)



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.

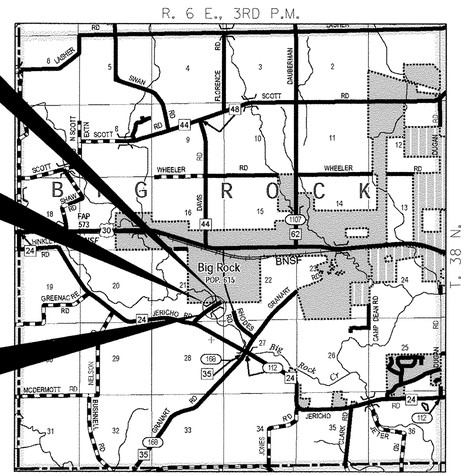
J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATIONFOR EXCAVATION
1–800–892–0123
OR 811

CONTRACT NO. 61D84

IMPROVEMENT ENDS
STATION 13+25

STATION 10+93
CONTINUOUS REINFORCED CONCRETE
SLAB BRIDGE.
4 SPANS @ 29'-0", 36'-0", 36'-0", 29'-0"
28'-0" RDWY.; SKEW = 20°
PROPOSED STRUCTURE NO. 045-9972
EXISTING STRUCTURE NO. 045-3106

IMPROVEMENT BEGINS
STATION 8+00



LOCATION MAP

APPROXIMATE SCALE: 0 ——— 1 MILE

GROSS AND NET LENGTH OF SECTION = 525 FEET = 0.099 MILES

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED 1-31- 2017
Rick Rausch
BIG ROCK TOWNSHIP

APPROVED 2-1 2017
COUNTY ENGINEER

PASSED 2-14 2017
CJHolt/dr
DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review — February 16 2017
REGIONAL ENGINEER

DATE: 01/26/2017
LICENSED PROFESSIONAL ENGINEER — JOSEPH W. RENZEE — 062-54470 — STATE OF ILLINOIS
EXPIRES: 11/30/2017

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

FEDERAL AID PROGRAM ENGINEER: CHARLES F. RIDDLE, P.E. (847)–705–4406 SCHAUMBURG, IL

GENERAL NOTES

1. ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", ADOPTED APRIL 1, 2016 HERE IN AFTER REFERRED TO AS THE STANDARD SPECIFICATIONS; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" ADOPTED JANUARY 1, 2017; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; THE DETAILS IN THE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE DOCUMENTS.

2. THE LOCATIONS OF EXISTING DRAINAGE STRUCTURES, TELEPHONE LINES, ELECTRIC LINES, GAS MAINS, AND OTHER UTILITY FACILITIES AS SHOWN ON THE PLANS ARE BASED ON FIELD INVESTIGATIONS AND THE BEST INFORMATION AVAILABLE, BUT THE LOCATIONS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATIONS FROM THE INDIVIDUAL UTILITY COMPANIES AND BY FIELD INSPECTION.

3. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR, OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.

4. ANY REFERENCE TO ANY STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO MEAN THE LATEST STANDARD OF THE DEPARTMENT.

5. THE AREA TO BE SEEDED SHALL CONSIST OF ALL EARTH SURFACES WITHIN THE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER.

   ESTIMATED QUANTITY: **SEEDING, CLASS 2 (SPECIAL) = 0.25 ACRE**
   ESTIMATED QUANTITY: **SEEDING, CLASS 4A (SPECIAL) = 0.10 ACRE**

6. THE CONTRACTOR SHALL FURNISH AND PLACE TOPSOIL AND SHALL LAY EROSION CONTROL BLANKET ON ALL DISTURBED EARTH SLOPES.

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

AGGREGATE BASE COURSE AND SHOULDERS	2.05 TON/CU.YD.
STONE RIPRAP, CLASS A4	1.75 TON/CU.YD.
HOT-MIX ASPHALT	112 LBS/SQ. YD./INCH DEPTH
BITUMINOUS MATERIALS	
ON AGGREGATE SURFACE (PRIME COAT)	0.25 LB./SQ.FT.
INTERMEDIATE LIFTS (TACK COAT)	0.025 LB./SQ.FT.

8. ALL ELEVATIONS ON THE PLANS ARE REFERENCED TO NAVD 88.

9. THE ILLINOIS DEPARTMENT OF TRANSPORTATION IS NOT THE OWNER OF RECORD FOR THIS BRIDGE. THOSE SEEKING HISTORIC, AS-BUILT OR OTHER EXISTING DOCUMENTS AND PLANS MUST CONTACT THE OWNER OF RECORD. TO MAKE ARRANGEMENTS FOR ACCESS TO THIS INFORMATION PLEASE CONTACT:
   RICK RAUSCH
   BIG ROCK TOWNSHIP HIGHWAY COMMISSIONER
   (630)-556-4331

10. THOSE SEEKING THE FULL HYDRAULIC REPORT SHOULD CONTACT THE OWNER OF RECORD. TO MAKE ARRANGEMENTS FOR ACCESS TO THIS INFORMATION PLEASE CONTACT.
    RICK RAUSCH
    BIG ROCK TOWNSHIP HIGHWAY COMMISSIONER
    (630)-556-4331

COMMITMENTS

1. THE BRIDGE SHALL BE INSPECTED FOR THE PRESENCE OF BATS WITHIN 7 DAYS PRIOR TO THE START OF CONSTRUCTION TO INSURE BATS HAVE NOT STARTED TO USE THE BRIDGE PROPOSED FOR REMOVAL. SEE SPECIAL PROVISIONS.
2. TREE CLEARING SHALL NOT BE CONDUCTED BETWEEN APRIL 1 AND SEPTEMBER 30.

INDEX OF SHEETS

HIGHWAY STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-03	NAME PLATE FOR BRIDGES
542401-02	METAL END SECTION FOR PIPE CULVERTS
630001-11	STEEL PLATE BEAM GUARDRAIL
630301-07	SHOULDER WIDENING FOR TYPE 1, (SPECIAL) GUARDRAIL TERMINALS
631032-09	TRAFFIC BARRIER TERMINAL, TYPE 6A
701001-02	OFF-RD OPERATIONS, 2L,2W, MORE THAN 15' (4.5M) AWAY
701006-05	OFF-RD OPERATIONS, 2L,2W, 15' (4.5M) TO 24" (600MM) FROM PAVEMENT EDGE
701901-06	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

UTILITIES

AT & T
1000 COMMERCE DRIVE, 1ST FLOOR
OAKBROOK, ILLINOIS 60523
ATTN: JOHN EVERS
PHONE: 630-573-5705

COMED
ONE LINCOLN CENTER, SUITE 600
OAKBROOK TERRACE, IL 60181
ATTN: ANGELA HARRELL
PHONE: 630-576-6185

MEDIACOM
808 E. NORTH STREET
ELBURN, ILLINOIS 60119
ATTN: MATT FORGAS
PHONE: 815-597-5103

NICOR GAS
1844 FERRY ROAD
NAPERVILLE, ILLINOIS 60563
ATTN: BRUCE KOPPANG
PHONE: 630-388-3046

FILE NAME = 140276-sht-notes.dgn	USER NAME = $USER$	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		DRAWN - T.W.K.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = $SCALE$	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 2/22/2017	DATE - 02/21/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, GENERAL NOTES AND HIGHWAY STANDARDS
PRICE ROAD

SCALE: | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
199	11-03112-00-BR	KANE	39	2
BIG ROCK TOWNSHIP		CONTRACT NO. 61D84		
	ILLINOIS FED. AID PROJECT BROS-0089(181)			

SUMMARY OF QUANTITIES

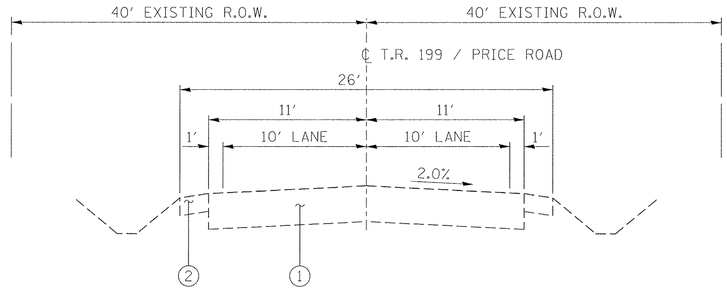
	CODE NO.	ITEM	CONSTRUCTION TYPE CODE 0011 FUNDING STP 80% FEDERAL / 20% STATE UNIT	TOTAL QUANTITY
^	20200100	EARTH EXCAVATION	CU YD	519
	20300100	CHANNEL EXCAVATION	CU YD	345
	20700220	POROUS GRANULAR EMBANKMENT	CU YD	60
	21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1,313
^	25100115	MULCH, METHOD 2	ACRE	0.5
^	25100630	EROSION CONTROL BLANKET	SQ YD	1,313
^	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	42
	28000305	TEMPORARY DITCH CHECKS	FOOT	70
	28000400	PERIMETER EROSION BARRIER	FOOT	150
	28000500	INLET AND PIPE PROTECTION	EACH	1
	28100207	STONE RIPRAP, CLASS A4	TON	720
	28200200	FILTER FABRIC	SQ YD	870
	35101400	AGGREGATE BASE COURSE, TYPE B	TON	714
	40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	24
^	40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	123
^	40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	81
	40700100	BITUMINOUS MATERIALS (TACK COAT)	POUND	218
	40800025	BITUMINOUS MATERIALS (PRIME COAT)	POUND	2,268
	44000100	PAVEMENT REMOVAL	SQ YD	1034
	48101200	AGGREGATE SHOULDERS, TYPE B	TON	156
	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
	50201101	COFFERDAM (TYPE 1) (LOCATION - 1)	EACH	1
	50201102	COFFERDAM (TYPE 1) (LOCATION - 2)	EACH	1
	50300225	CONCRETE STRUCTURES	CU YD	49
	50300255	CONCRETE SUPERSTRUCTURE	CU YD	204.7
	50300260	BRIDGE DECK GROOVING	SQ YD	385
	50300280	CONCRETE ENCASEMENT	CU YD	45.3

^ - SEE SPECIAL PROVISIONS
* - SPECIALTY ITEMS

SUMMARY OF QUANTITIES

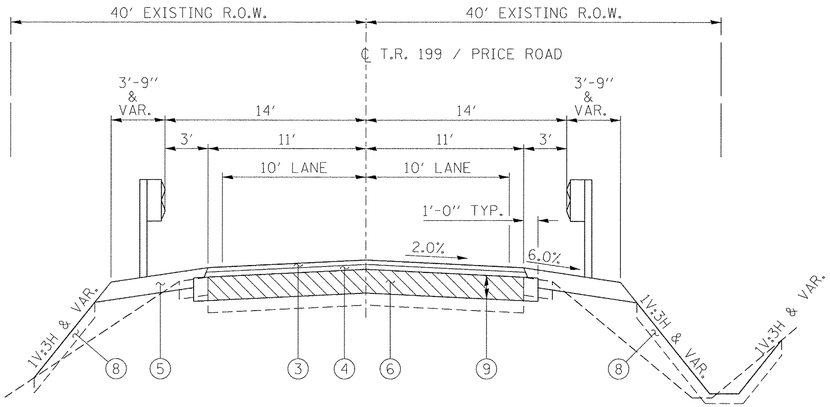
	CODE NO.	ITEM	CONSTRUCTION TYPE CODE 0011 FUNDING STP 80% FEDERAL / 20% STATE UNIT	TOTAL QUANTITY
	50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	72,500
*	50901050	STEEL RAILING, TYPE SM	FOOT	265
	51201400	FURNISHING STEEL PILES HP10X42	FOOT	315
	51201800	FURNISHING STEEL PILES HP14X73	FOOT	1019
	51202305	DRIVING PILES	FOOT	1334
	51203400	TEST PILE STEEL HP10X42	EACH	1
	51203800	TEST PILE STEEL HP14X73	EACH	1
	51500100	NAME PLATES	EACH	1
	542D0241	PIPE CULVERTS, CLASS D, TYPE 1 36"	FOOT	38
	54213891	STEEL END SECTIONS 36"	EACH	2
	59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	42
*	63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4
*	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
*	63200310	GUARDRAIL REMOVAL	FOOT	241
	67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	4
	67100100	MOBILIZATION	LSUM	1
*	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
*	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8
^	X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.25
^	X2502014	SEEDING, CLASS 4A (MODIFIED)	ACRE	0.1
^	X5870015	BRIDGE DECK CONCRETE SEALER	SQ FT	4283
^	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	LSUM	1
^	X7015005	CHANGEABLE MESSAGE SIGN	CAL DA	14
^	XX000061	STUMP REMOVAL	EACH	5
	Z0013798	CONSTRUCTION LAYOUT	LSUM	1
^	Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	123

^ - SEE SPECIAL PROVISIONS
* - SPECIALTY ITEMS



EXISTING TYPICAL CROSS SECTION

STA. 8+00 TO STA. 10+48.58
STA. 11+50.68 TO STA. 13+25



TYPICAL FILL SECTION

PROPOSED TYPICAL CROSS SECTION

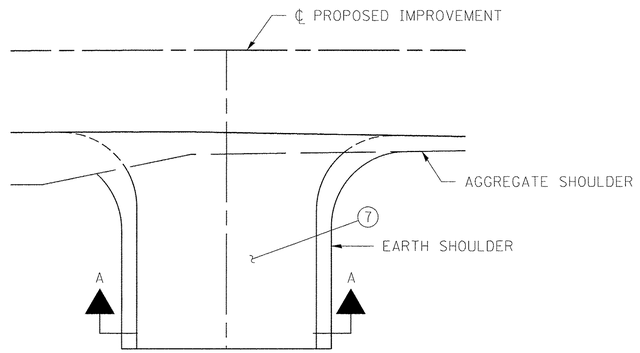
STA. 8+00 TO STA. 10+26.40
STA. 11+59.59 TO STA. 13+25

TYPICAL CUT SECTION

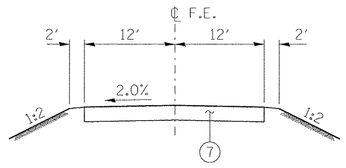
NOTE:
TRANSITION BETWEEN EXISTING AND PROPOSED TO BE MADE FROM STA. 8+00 TO STA. 8+50 AND STA. 12+75 TO STA. 13+25.

LEGEND

1. EXISTING PAVEMENT (3" HMA SURFACE ON 10" AGGREGATE BASE)
2. EXISING AGGREGATE SHOULDER
3. HMA SURFACE COURSE, MIX "D", N50 (1½")
4. HMA BINDER COURSE), IL-19.0 N50 (2¼")
5. AGGREGATE SHOULDER TYPE B (6")
6. AGGREGATE BASE COURSE TYPE B (12")
7. AGGREGATE SURFACE COURSE, TYPE B (6")
8. TOPSOIL FURNISH AND PLACE (4")
9. PAVEMENT REMOVAL



PLAN



SECTION A–A

FIELD ENTRANCE DETAIL

NO SCALE
RT. STA. 12+80

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @Ndes
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL 9.5mm) (1.5")	4% @ 50 GYR
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50 (2.25" MIN)	4% @ 50 GYR

NOTES:
1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT MIXTURES IS 112 LBS/ SQ YD/ INCH
2. THE "AC TYPE" FOR NON-POLYMERIZED HMA SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
3. FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.

PAVEMENT DESIGN
DESIGN PERIOD: 20 YEARS (2037)
STRUCTURAL DESIGN TRAFFIC: 236 (2027)
PV = 208 SU = 21 MU = 7
ROAD/STREET CLASSIFICATION CLASS IV

FILE NAME = 140276-sht-typicals.dgn	USER NAME = $USER$	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3285 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - T.W.K.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 2/22/2017	DATE - 02/17/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL CROSS SECTIONS AND ENTRANCE DETAIL
PRICE ROAD

SCALE: | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
199	11-03112-00-BR	KANE	39	4
BIG ROCK TOWNSHIP		CONTRACT NO. 61D84		
ILLINOIS FED. AID PROJECT BROS-0089(181)				

ROADWAY SCHEDULE

LOCATION	AGGREGATE BASE COURSE TYPE B (8")	AGGREGATE SURFACE COURSE TYPE B (6")	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT BINDER COURSE IL-19.0, N50 (2.25")	HOT-MIX ASPHALT SURFACE COURSE MIX "D", N50 (1.5")	PAVEMENT REMOVAL	AGGREGATE SHOULDERS, TYPE B (6")
	35101400	40200800	40600275	40600290	40603080	40603335	44000100	48101500
	TON	TON	POUND	POUND	TON	TON	SQ YD	TON
STA. 8+50 TO STA. 10+26.40	413		1358	126	71	47	608	86
STA. 11+59.59 TO STA. 13+25	301		910	92	52	34	426	70
ENTRANCE RT. STA. 12+80		24						
TOTAL	714	24	2268	218	123	81	1034	156

SEEDING SCHEDULE

LOCATION	TOPSOIL FURNISH AND PLACE, 4"	MULCH, METHOD 2 *	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING *	SEEDING CLASS 4A (MODIFIED)	SEEDING CLASS 2 (SPECIAL)
	21101615	25100115	25100630	28000250	X2502014	XX004446
	SQ YD	ACRE	SQ YD	POUND	ACRE	ACRE
LT. STA. 8+00 TO STA. 10+85	303	0.13	303	9	0.02	0.04
LT. STA. 11+90 TO STA. 13+25	340	0.14	340	11	0.02	0.06
RT. STA. 8+00 TO STA. 10+49	406	0.17	406	13	0.02	0.06
RT. STA. 11+14 TO STA. 13+25	264	0.11	264	9	0.01	0.05
TOTAL	1313	0.55	1313	42	0.07	0.21
USE	1313	0.50	1313	42	0.10	0.25

* 2 APPLICATIONS

EROSION CONTROL SCHEDULE

LOCATION	TEMPORARY DITCH CHECKS	PERIMETER EROSION BARRIER	INLET AND PIPE PROTECTION
	28000305	28000400	28000500
	FOOT	FOOT	EACH
PRICE ROAD			
LT. STA. 8+00 TO STA. 9+50		150	
LT. STA. 10+55	10		
LT. STA. 11+60	10		
LT. STA. 12+10	10		
LT. STA. 12+60	10		
RT. STA. 10+35	10		
RT. STA. 11+50	10		
RT. STA. 12+10	10		
RT. STA. 13+03			1
TOTAL	70	150	1

STUMP REMOVAL

LOCATION	EACH
LT. STA. 11+62	1
LT. STA. 11+65	1
LT. STA. 12+01	1
LT. STA. 12+05	1
LT. STA. 12+20	1
TOTAL	5

EARTHWORK SUMMARY

LOCATION	EARTH EXCAVATION	CHANNEL EXCAVATION	SHRINKAGE FACTOR	% USED	EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT REQUIRED	EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-)
	CU YD	CU YD			CU YD	CU YD	CU YD
STA. 8+00 TO STA. 10+26.40	240		25.00%	100.00%	180	25	155
STA. 10+26.40 TO STA. 11+59.59		345	25.00%	75.00%	259		259
STA. 11+59.59 TO STA. 13+23	279		25.00%	100.00%	209	68	141
ENTRANCE EMBANKMENT					0	48	-48
TOTAL	519	345			648	141	507

WASTE 507 CU.YD.

GUARDRAIL SCHEDULE

LOCATION	TRAFFIC BARRIER TERMINAL TYPE 6A	TRAFFIC BARRIER TERMINAL TYPE 1 (SPECIAL) TANGENT	GUARDRAIL REMOVAL	TERMINAL MARKER DIRECT APPLIED	GUARDRAIL REFLECTORS TYPE A
	63100087	63100167	63200310	72501000	78200005
	EACH	EACH	FOOT	EACH	EACH
LT. STA. 9+41.27 TO STA. 10+32.05	1	1	48	1	2
RT. STA. 9+30.72 TO STA. 10+21.50	1	1	73	1	2
LT. STA. 11+64.27 TO STA. 12+55.04	1	1	72	1	2
RT. STA. 11+54.46 TO STA. 12+45.24	1	1	48	1	2
TOTAL	4	4	241	4	8

0 20' 40'
GRAPHIC SCALE
P.O.T. STA. 5+00.43 (TO BE SET) N. 1852084.65 E. 924648.85
GRASS
P.I. STA. 9+48.90 (TO BE SET) N. 1852354.82 E. 925006.81
STATION 10+93
CONTINUOUS REINFORCED CONCRETE SLAB BRIDGE.
4 SPANS: 29'-0", 36'-0", 36'-0", 29'-0"
28'-0" RDWY.; SKEW = 20°
PROPOSED STRUCTURE NO. 045-9972
CREEK
BASE FLOOD ELEVATION (684.31)
P.O.T. STA. 17+00.31 (TO BE SET) N. 1852723.96 E. 925662.43
GRASS
WETLAND / WOUS BOUNDARY
10" PVC
10" CONC.
BM#2
WETLAND / WOUS BOUNDARY
21" CMP
21" CMP
℄ PROPOSED IMPROVEMENT
R.O.W.
PI STA.9+48.90
PRICE ROAD
HMA SURFACE
EXISTING
36" CMP
BM#1
CP#1
IMPROVEMENT ENDS STATION 13+25
PERMANENT WETLAND / WOUS IMPACT AREA = 0.04 ACRE
PERMANENT WETLAND / WOUS IMPACT AREA = 0.04 ACRE
STA. 12+80
CONSTRUCT 24' F.E.
PIPE CULVERTS CL D, TY1 36"
LENGTH = 38 FOOT
METAL END SECTIONS, 36" = 2 EACH
30' RT. STA. 12+61 USFL = 681.0
30' RT. STA. 12+99 DSFL = 680.1
PT STA. 12+82.74
CROPLAND
CONSTRUCTION LIMITS
IMPROVEMENT BEGINS STATION 8+00
LEGEND
PROPOSED GUARDRAIL
BASE FLOOD ELEVATION (684.31)
DELINEATED WETLAND / WOUS BOUNDARY
PERMANENT WETLAND / WOUS IMPACT AREA = 0.08 ACRE TOTAL
TEMPORARY COFFERDAMS
STUMP REMOVAL
Curve Data
PI Sta. 9+48.90
Δ = 7° 39' 45" (RT)
D = 1° 08' 45"
T = 334.84'
R = 5,000.00'
L = 668.67'
E = 11.20'
PC Sta. 6+14.07
PT Sta. 12+82.74
NO S.E.
BIG ROCK
10" CONC.
PASTURE
PASTURE
BASE FLOOD ELEVATION (684.31)
EXISTING STRUCTURE NO. 045-3106
STATION 11+00 - TWO SPAN PRECAST PRESTRESSED CONC. DECK BEAM BRIDGE ON CLOSED CONCRETE ABUTMENTS AND WINGWALLS.
102.1' BK.-BK. ABUTS; 27.0' o.-o. DECK
BM#2 - BENCH TIE IN UTILITY POLE 38' LT., STA. 10+28 ELEV. 679.22
BM#1 - CHISELED "□" ON S.E. WING WALL 14' RT., STA. 11+43 ELEV. 684.75
BM#3 - BENCH TIE IN POWER POLE 20' RT., STA. 14+49 ELEV. 688.66
VPC
VPI STA. 8+50 ELEV. 683.80
VPT
K = 171
100' V.C.
VPC
VPI STA. 13+00 ELEV. 686.30
VPT
K = 92
100' V.C.
100 YEAR H.W. ELEV. 683.03
30 YEAR H.W. ELEV. 681.85
PROPOSED ℄ GRADE
+1.14%
+0.56%
+1.64%
EXISTING ℄ GRADE
683.5 LT.
SP. DITCH LT.
678.0 LT.
+4.40%
+2.40%
676.8 LT.
677.0 LT.
-0.80%
-0.56%
+2.80%
681.6 RT.
SP. DITCH RT.
SP. DITCH RT.
680.0 RT.
681.0 RT.
677.0 RT.
SP. DITCH RT.
676.3 RT.
CHANNEL EXCAVATION
677.2 RT.
STONE RIPRAP, CL A4
℄ ELEV. 670.5
✱ 2H:1V @ RT. ∠'S
705 700 695 690 685 680 675 670 665
683.23 683.23
683.55 683.73
683.71 684.08
683.84 684.36
684.12 684.63
684.50 684.91
684.76 685.19
684.25 685.47
685.35 685.74
685.69 686.02
686.35 686.44
687.12 687.12
687.94
8+00 8+50 9+00 9+50 10+00 10+50 11+00 11+50 12+00 12+50 13+00 13+50 14+00

FILE NAME = 140276-sht-p&p.dgn	USER NAME = $USER$	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PLAN & PROFILE PRICE ROAD	
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - T.W.K.	REVISED -			
	PLOT SCALE = $SCALE$	CHECKED - S.W.M.	REVISED -			
	PLOT DATE = 2/22/2017	DATE - 02/21/17	REVISED -		SCALE: 20H:5V / SHEET NO. 1 OF 1 SHEETS / STA. 8+00.00 TO STA. 14+00.00	

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
199	11-03112-00-BR	KANE	39	6
BIG ROCK TOWNSHIP		CONTRACT NO. 61D84		
		ILLINOIS FED. AID PROJECT BROS-0089(181)		

PLAN	
SURVEYED	BY / DATE
PLOTTED	
ALIGNMENT CHECKED	
RT. OF WAY CHECKED	
CADD FILE NAME	
NOTE BOOK NO.	

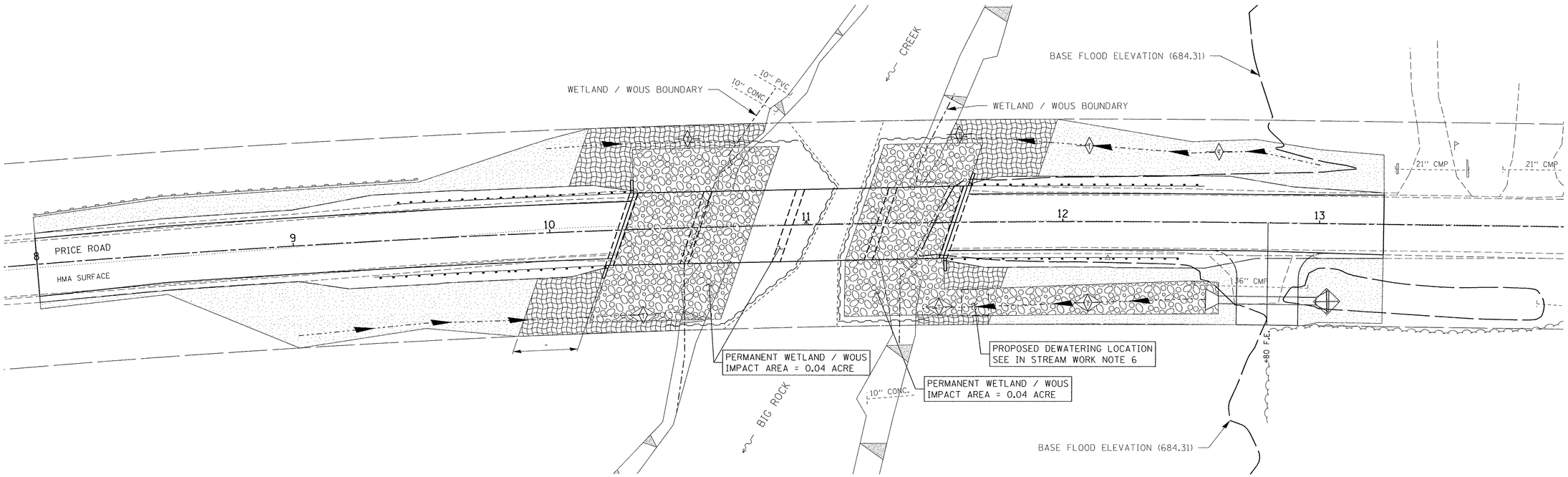
PROFILE	
SURVEYED	BY / DATE
PLOTTED	
GRADES CHECKED	
BM. NOTED	
STRUCTURE NOTATNS CHK'D	
NOTE BOOK NO.	

EROSION CONTROL PLAN
& STORMWATER POLLUTION PREVENTION PLAN

THIS PROJECT DISTURBS 0.8 ACRES OF TOTAL LAND AREA. COMPLIANCE WITH THE NATIONAL POLLUTION DISCHARGE ELIMINATION SYSTEM (NPDES) STORMWATER PERMIT IS ONLY NECESSARY IF A PROJECT DISTURBS 1 OR MORE ACRES OF TOTAL LAND AREA; AN NPDES STORMWATER PERMIT IS NOT REQUIRED FOR THIS PROJECT.

N

0 20' 40'
GRAPHIC SCALE



LEGEND

- INDICATES DELINEATED WETLAND / WOUS BOUNDARY
- INDICATES PERMANENT WETLAND / WOUS IMPACT AREA = 0.08 ACRE TOTAL
- STONE RIPRAP CLASS A4 (SEE BRIDGE PLANS FOR LAYOUT)
- INLET AND PIPE PROTECTION
- SEEDING CLASS 4A (SPECIAL), EROSION CONTROL BLANKET & TOPSOIL
- SEEDING CLASS 2 (SPECIAL), EROSION CONTROL BLANKET AND TOPSOIL
- TEMPORARY DITCH CHECKS
- TEMPORARY COFFERDAMS
- PERIMETER EROSION BARRIER
- BASE FLOOD ELEVATION (684.31)

FILE NAME = 140276-sht-erosion.dgn	USER NAME = $USER$	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - T.W.K.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 2/22/2017	DATE - 02/21/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
PRICE ROAD

SCALE: 20:1 | SHEET NO. 1 OF 3 SHEETS | STA. | TO STA.

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
199	11-03112-00-BR	KANE	39	7
BIG ROCK TOWNSHIP		CONTRACT NO. 61D84		
	ILLINOIS	FED. AID PROJECT BROS-0089(181)		

GENERAL NOTES FOR SOIL EROSION AND SEDIMENT CONTROL

1. ALL SOIL EROSION AND SEDIMENT CONTROL PRACTICES SHALL BE CONSTRUCTED ACCORDING TO THE STANDARDS AND SPECIFICATIONS IN THE 2013 ILLINOIS URBAN MANUAL (IUM), THE ILLINOIS DEPARMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED APRIL 1, 2016 AND THE PLAN DETAILS.

2. THE KANE-DUPAGE SOIL AND WATER CONSERVATION DISTRICT (KDSWCD) MUST BE NOTIFIED ONE WEEK PRIOR TO THE PRE-CONSTRUCTION CONFERENCE, ONE WEEK PRIOR TO THE COMMENCEMENT OF LAND DISTURBING ACTIVITIES, AND ONE WEEK PRIOR TO THE FINAL INSPECTION.

3. A COPY OF THE APPROVED EROSION AND SEDIMENT CONTROL PLAN SHALL BE MAINTAINED ON SITE AT ALL TIMES. IT SHALL BE PRESENTED UPON REQUEST FROM ANY AUTHORIZED AGENT.

4. THE EROSION CONTROL MEASURES INDICATED ON THE PLANS ARE THE MINIMUM REQUIREMENTS. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF ANY ADDITIONAL EROSION CONTROL MEASURES NECESSARY TO PREVENT EROSION AND SEDIMENTATION AS DETERMINED BY THE ENGINEER AND KDSWCD

5. IT IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR TO INFORM ANY SUB-CONTRACTOR(S) WHO MAY PERFORM WORK ON THIS PROJECT, OF THE REQUIREMENTS IN IMPLEMENTING AND MAINTAINING THESE EROSION CONTROL PLANS AND THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT REQUIREMENTS SET FORTH BY THE ILLINOIS EPA.

6. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF UPLAND DISTURBANCE. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS AND THE USE OF TEMPORARY OR PERMANENT MEASURES.

7. PRIOR TO COMMENCING LAND-DISTURBING ACTIVITIES IN AREAS OTHER THAN INDICATED ON THESE PLANS (INCLUDING BUT NOT LIMITED TO, ADDITIONAL PHASES OF DEVELOPMENT AND OFF-SITE BORROW OR WASTE AREAS) A SUPPLEMENTARY EROSION CONTROL PLAN SHALL BE SUBMITTED TO THE OWNER FOR REVIEW BY THE KDSWCD.

8. THE CONTRACTOR SHALL CLEAN UP AND GRADE THE WORK AREA AS THE PROJECT PROGRESSES TO ELIMINATE THE CONCENTRATION OF RUNOFF. THE PAVEMENT SHALL BE CLEANED DAILY TO REMOVE EARTH MATERIAL TO THE SATISFACTION OF THE ENGINEER. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK.

9. ALL TEMPORARY EROSION CONTROL MEASURES MUST BE MAINTAINED AND IMMEDIATELY REPLACED AS NEEDED AND AS DIRECTED BY THE ENGINEER. THE CONTRACTOR WILL BE RESPONSIBLE FOR ALL INSPECTION AND REPAIR. THE CONTRACTOR SHALL INSPECT AND COMPLETE MAINTENANCE OF ALL ITEMS A MINIMUM OF EVERY 7 DAYS AND WITHIN 24 HOURS OF A ONE-HALF INCH RAINFALL. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SEEDING IS ACHIEVED. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK.

10. REMOVAL OF TRAPPED SEDIMENT SHALL BE PAID FOR AS EARTH EXCAVATION. SEDIMENT SHALL BE REMOVED WHEN SILTATION REACHES 50% OF THE HEIGHT OF THE BARRIER.

11. TEMPORARY STOCKPILES OF MATERIALS MAY NOT BE LOCATED IN WETLANDS, FLOODPLAINS, OR DRAINAGE SWALES. THE LOCATION OF ANY TEMPORARY STOCKPILE SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL. STOCKPILES TO REMAIN IN PLACE MORE THAN THREE DAYS SHALL BE FURNISHED WITH EROSION & SEDIMENT CONTROL (I.E. PERIMETER EROSION BARRIER). STOCK PILES TO REMAIN IN PLACE FOR THIRTY DAYS OR MORE SHALL RECEIVE TEMPORARY SEEDING. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK.

12. THE CONTRACTOR SHALL MAINTAIN AND PRESERVE ANY EXISTING SUB SURFACE DRAINAGE SYSTEMS (i.e. FIELD TILES) ACCORDING TO SECTION 611 OF THE IDOT STANDARD SPECIFICATIONS.

13. CLEANING OF VEHICLES AND EQUIPMENT SHALL BE PERFORMED IN A MANNER TO AVOID POLLUTANT DISCHARGE TO OPEN WATERS TO THE MAXIMUM EXTENT POSSIBLE. IF THE CONTRACTOR PROPOSES TO USE AN ON-SITE WASHOUT LOCATION, THE CONTRACTOR SHALL SUBMIT A LOCATION AND DESIGN OF THE PROPOSED TEMPORARY CONCRETE WASHOUT FACILITY TO THE ENGINEER FOR APPROVAL AT LEAST 10 DAYS PRIOR TO THE FIRST POUR. THE PLAN SHALL CONFORM TO THE IUM STANDARD 654. NO ADDITIONAL PAYMENT WILL BE MADE FOR THIS WORK.

14. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUNOFF. LEAKY EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.

15. THE CONTRACTOR SHALL FURNISH AND PLACE TOPSOIL AND SHALL LAY EROSION CONTROL BLANKET (IUM STANDARD 530) ON ALL DISTURBED EARTH SLOPES. (SEE IUM STANDARD 530) EROSION CONTROL BLANKET WITH GREEN DYE IS NOT PERMITTED.

16. TEMPORARY SEEDING SHALL BE COMPLETED ON ALL AREAS THAT WILL NOT BE BROUGHT TO FINAL GRADE OR ON WHICH CONSTRUCTION WILL BE STOPPED FOR A PERIOD OF MORE THAN 14 CALENDAR DAYS. WINTER SHUTDOWN SHALL BE ADDRESSED EARLY IN THE FALL GROWING SEASON SO THAT SLOPES AND OTHER BARE EARTH AREAS MAY BE STABILIZED WITH TEMPORARY AND/OR PERMANENT VEGETATIVE COVER FOR PROPER EROSION AND SEDIMENT CONTROL.

17. TEMPORARY DITCH CHECKS SHALL BE AGGREGATE CONSTRUCTED ACCORDING TO HIGHWAY STANDARD 280001, ROLLED EXCELSIOR CONSTRUCTED ACCORDING TO IUM STANDARD 514, OR MANUFACTURED DITCH CHECKS INSTALLED ACCORDING TO THE MANUFACTURER'S SPECIFICATIONS.

IN-STREAM WORK NOTES

1. WORK IN THE WATERWAY SHALL BE TIMED TO TAKE PLACE DURING LOW OR NO-FLOW CONDITIONS. LOW FLOW CONDITIONS ARE FLOW AT OR BELOW THE NORMAL WATER ELEVATION.

2. THE CONTRACTOR SHALL DESIGN AN IN-STREAM WORK PLAN TO ALLOW FOR THE CONVEYANCE OF THE 2-YEAR PEAK FLOW PAST THE WORK AREA WITHOUT OVERTOPPING THE COFFERDAM. THE 2-YEAR PEAK FLOW RATE IS ESTIMATED AS 2123 CFS. THE CONTRACTOR SHALL SUBMIT PLANS OF THE COFFERDAM TO THE ENGINEER AND KDSWCD FOR APPROVAL PRIOR TO WORK.

3. WATER SHALL BE ISOLATED FROM THE IN-STREAM WORK AREA USING A COFFERDAM CONSTRUCTED OF NON-ERODIBLE MATERIALS (STEEL SHEETS, AQUA BARRIERS, RIP RAP AND GEOTEXTILE LINER, ETC.). EARTHEN COFFERDAMS ARE NOT PERMISSIBLE.

4. THE COFFERDAM SHALL BE CONSTRUCTED FROM THE UPLAND AREA AND NO EQUIPMENT MAY ENTER FLOWING WATER AT ANY TIME. IF THE INSTALLATION OF THE COFFERDAM CANNOT BE COMPLETED FROM SHORE AND ACCESS IS NEEDED TO REACH THE AREA TO BE COFFERED, OTHER MEASURES, SUCH AS THE CONSTRUCTION OF A CAUSEWAY, WILL BE NECESSARY TO ENSURE THAT EQUIPMENT DOES NOT ENTER THE WATER. ONCE THE COFFERDAM IS IN PLACE AND THE AREA IS DEWATERED, EQUIPMENT MAY ENTER THE COFFERED AREA TO PERFORM THE WORK.

5. IF BYPASS PUMPING IS NECESSARY, THE INTAKE HOSE SHALL BE PLACED ON A STABLE SURFACE OR FLOATED TO PREVENT SEDIMENT FROM ENTERING THE HOSE. THE BYPASS DISCHARGE SHALL BE PLACED ON A NON-ERODIBLE, ENERGY DISSIPATING SURFACE PRIOR TO REJOINING THE STREAM FLOW AND SHALL NOT CAUSE EROSION. FILTERING OF BYPASS WATER IS NOT NECESSARY UNLESS THE BYPASS WATER HAS BECOME SEDIMENT-LADEN AS A RESULT OF THE CURRENT CONSTRUCTION ACTIVITIES.

6. DURING DEWATERING OF THE COFFERED AREA, THE HOSE INTAKE SHALL BE PLACED IN A SUMP PIT (IUM STANDARD 650) AND THE OUTLET DISCHARGED ON A NON-ERODIBLE ENERGY DISSIPATING SURFACE. ALL SEDIMENT-LADEN WATER MUST BE FILTERED. POSSIBLE OPTIONS FOR SEDIMENT REMOVAL INCLUDE BAFFLE SYSTEMS, ANIONINC POLYMER SYSTEMS, DEWATERING BAGS, OR OTHER APPROPRIATE METHODS. WATER SHALL HAVE SEDIMENT REMOVED PRIOR TO BEING RE-INTRODUCED TO THE DOWNSTREAM WATERWAY. A STABILIZED CONVEYENACE FROM THE DEWATERING DEVICE TO THE WATERWAY MUST BE IDENTIFIED IN THE PLAN. DISCHARGE WATER IS CONSIDERED CLEAN IF IT DOES NOT RESULT IN A VISUALLY IDENTIFIABLE DEGRADATION OF WATER CLARITY. THE EXACT MEANS, METHODS, AND LOCATIONS OF DEWATERING SHALL BE SHALL BE APPROVED BY THE ENGINEER AND KDSWCD BEFORE COMMENCEMENT OF WORK.

7. THE AREA FROM THE TOE TO THE TOP OF THE SIDE SLOPE SHALL BE TEMPORARILY STABILIZED DURING CONSTRUCTION TO REDUCE THE POTENTIAL FOR EROSION. ALL AREAS DISTURBED DUE TO CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO PROPOSED CONDITIONS AND FULLY STABILIZED PRIOR TO ACCEPTING FLOWS.

SOIL STABILIZATION CHART

STABILIZATION TYPE	JAN	FEB	MAR	APR	MAY	JUNE	JULY	AUG	SEPT	OCT	NOV	DEC
PERMANENT SEEDING				A		*	*					
DORMANT SEEDING	B										B	
TEMPORARY SEEDING			C									
EROSION CONTROL	D											

A. SEEDING CLASS 2 (SPECIAL)
SEEDING CLASS 4A (SPECIAL)

B. INCREASE SEEDING RATE BY 25% WHEN DORMANT SEEDING

C. TEMPORARY EROSION CONTROL SEEDING AND MULCH, METHOD 2

D. EROSION CONTROL BLANKET (PERMANENT SEED AREAS ONLY)

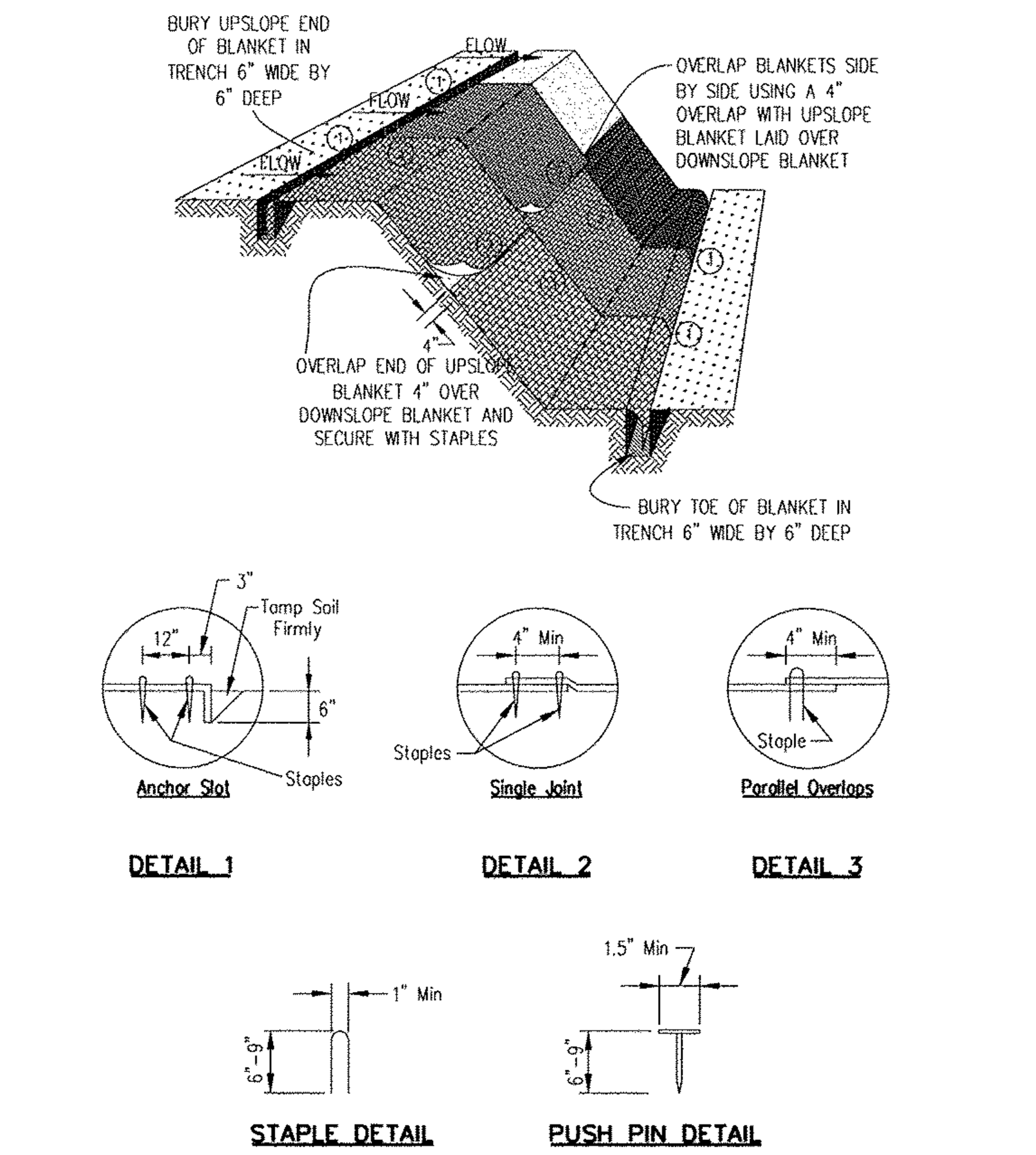
* IRRIGATION MAY BE NEEDED DURING JUNE AND JULY

SEEDING MIXTURES

CLASS - TYPE	SEEDS	LB/ACRE
2- ROADSIDE MIXTURE	TALL FESCUE	100
	PERENNIAL RYEGRASS	50
	CREEPING RED FESCUE	40
	RED TOP	10
4A- LOW PROFILE NATIVE GRASS	ANDROPOGON SCOPARIUS (LITTLE BLUE STEM)	5
	BOUTELOUA CURTIPENDULA (SIDE-OAT'S GRAMA)	5
	ELYMUS CANADENSIS (CANADA WILD RYE)	1
	SPOROBOLUS HETEROLEPSIS (PRAIRIE DROPSEED)	0.5
	ANNUAL RYEGRASS	25
	OAT'S, SPRING	25
	PERENNIAL RYEGRASS	15

RECOMMENDED CONSTRUCTION SEQUENCE FOR EROSION CONTROL

1) INSTALL TEMPORARY EROSION CONTROL MEASURES
2) REMOVE EXISTING BRIDGE DECK
3) INSTALL COFFERDAMS AND DEWATER IN-STREAM WORK AREA
4) REMOVE EXISTING PIERS AND CONSTRUCT NEW PIERS
5) CONSTRUCT NEW ABUTMENTS AND PLACE RIPRAP
6) REMOVE COFFERDAMS
7) CONSTRUCT EMBANKMENT FOR SHOULDER WIDENING AND GRADE DITCHES
8) INSTALL TRAFFIC BARRIERS
9) PERMANENT STABILIZATION OF ALL DISTURBED AREAS WITH VEGETATION
10) REMOVE TEMPORARY EROSION CONTROL MEASURES



NOTES:

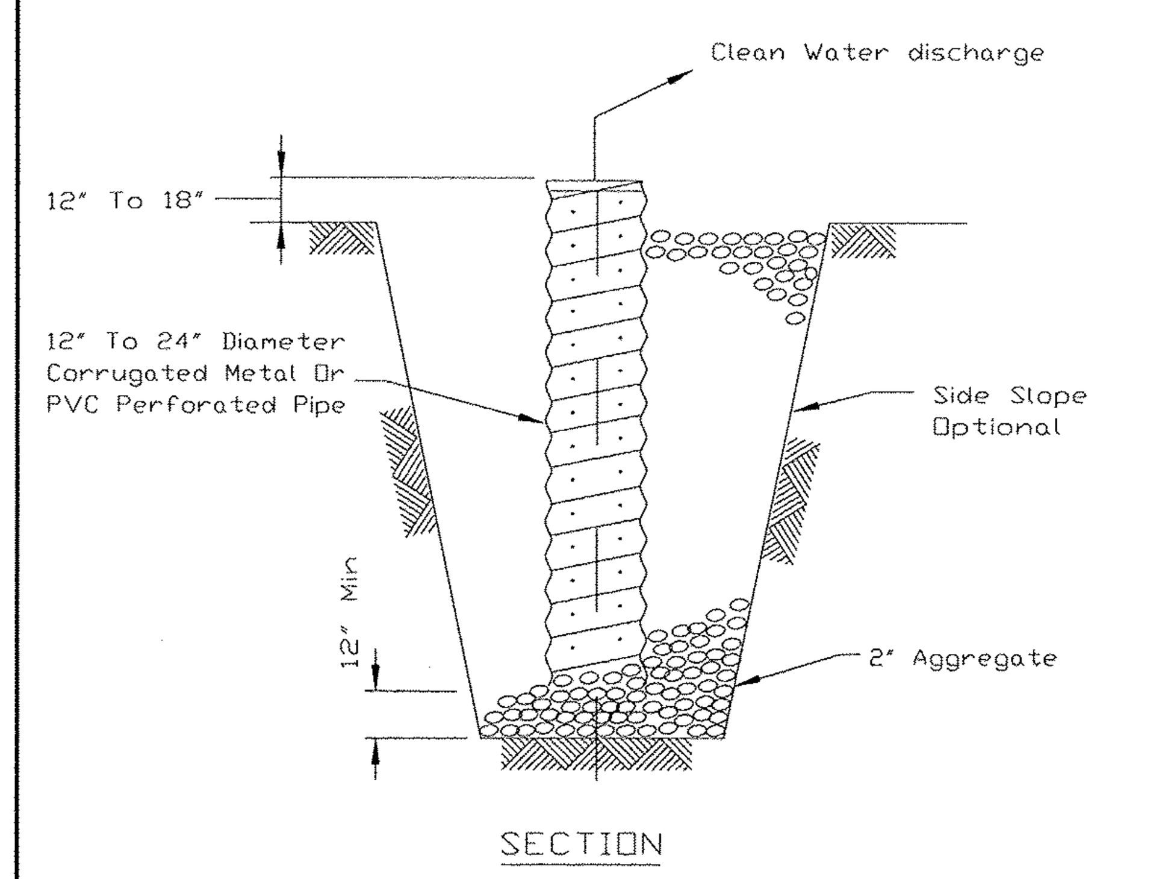
1. Staples shall be placed in a diamond pattern at 2 per s.y. for stiched blankets. Non-stiched shall use 4 staples per s.y. of material. This equates to 200 staples with stiched blanket and 400 stapels with non-stiched blanket per 100 s.y. of material.
2. Staple or push pin lengths shall be selected based on soil type and conditions. (minimum staple length is 6")
3. Erosion control material shall be placed in contact with the soil over a prepared seedbed.
4. All anchor slots shall be stapled at approximately 12" intervals.

Sheet 1 of 1 | Drawing No. | File No. IUM-530

EROSION CONTROL
BLANKET INSTALLATION DETAILS

Designed ______ Date
Drawn B. JOHNSON ______ 11/08
Checked ______
Approved ______

SUMP PIT PLAN

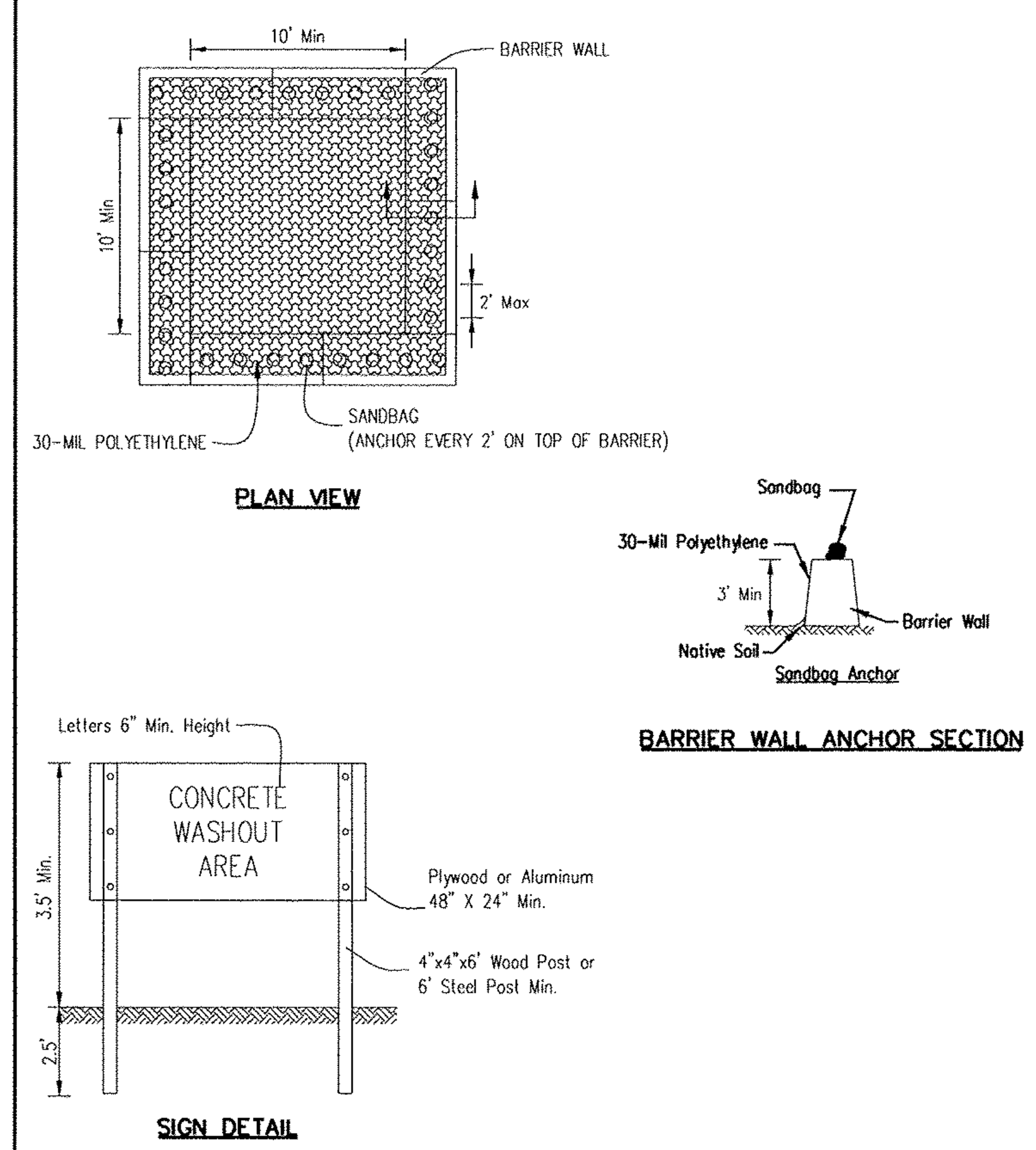


NOTES:
1. Pit dimensions are optional.
2. The standpipe will be constructed by perforating a 12"-24" diameter corrugated metal or PVC pipe.
3. A base of 2" aggregate will be placed in the pit to a minimum depth of 12". After installing the standpipe, the pit surrounding the standpipe will then be backfilled with 2" aggregate.
4. The standpipe will extend 12" to 18" above the lip of the pit.
5. If discharge will be pumped directly to a storm drainage system, the standpipe will be wrapped with filter fabric before installation.
6. If desired, 1/4"-1/2" hardware cloth may be placed around the standpipe prior to attaching the filter fabric. This will increase the rate of water seepage into the pipe.

REFERENCE
Project ______
Designed ______ Date ______
Checked ______ Date ______
Approved ______ Date ______

NRCS
Natural Resources Conservation Service

STANDARD DWG. NO.
IL-650
SHEET 1 OF 1
DATE 8-11-94



NOTES:

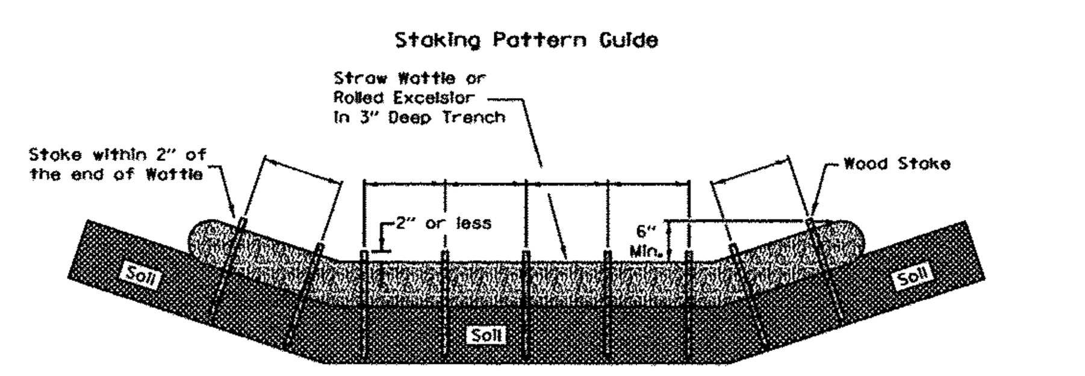
1. Maintaining temporary concrete washout facilities shall include removing and disposing of hardend concrete and/or slurry and returning the facilities to a functional condition.
2. Facility shall be cleaned or reconstructed in a new area once washout becomes two-thirds full.

Sheet 3 of 3 | Drawing No. | File No. IUM-654BW

TEMPORARY CONCRETE
WASHOUT FACILITY – BARRIER WALL

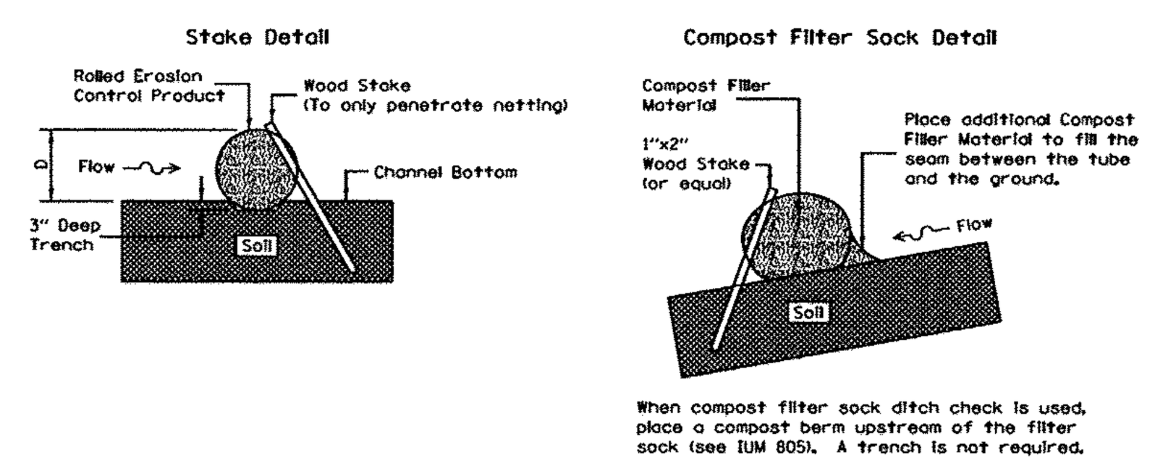
Designed ______ Date
Drawn B. JOHNSON ______ 6/08
Checked ______
Approved ______

ROLLED EROSION CONTROL PRODUCTS



Notes:

1. Overlap minimum is the diameter of the roll.
2. 4' spacing for wattles.
3. 2' spacing for rolled excelsior.
4. Or space according to manufacturer's specifications.



When compost filter sock ditch check is used, place a compost berm upstream of the filter sock (see IUM 805). A trench is not required.

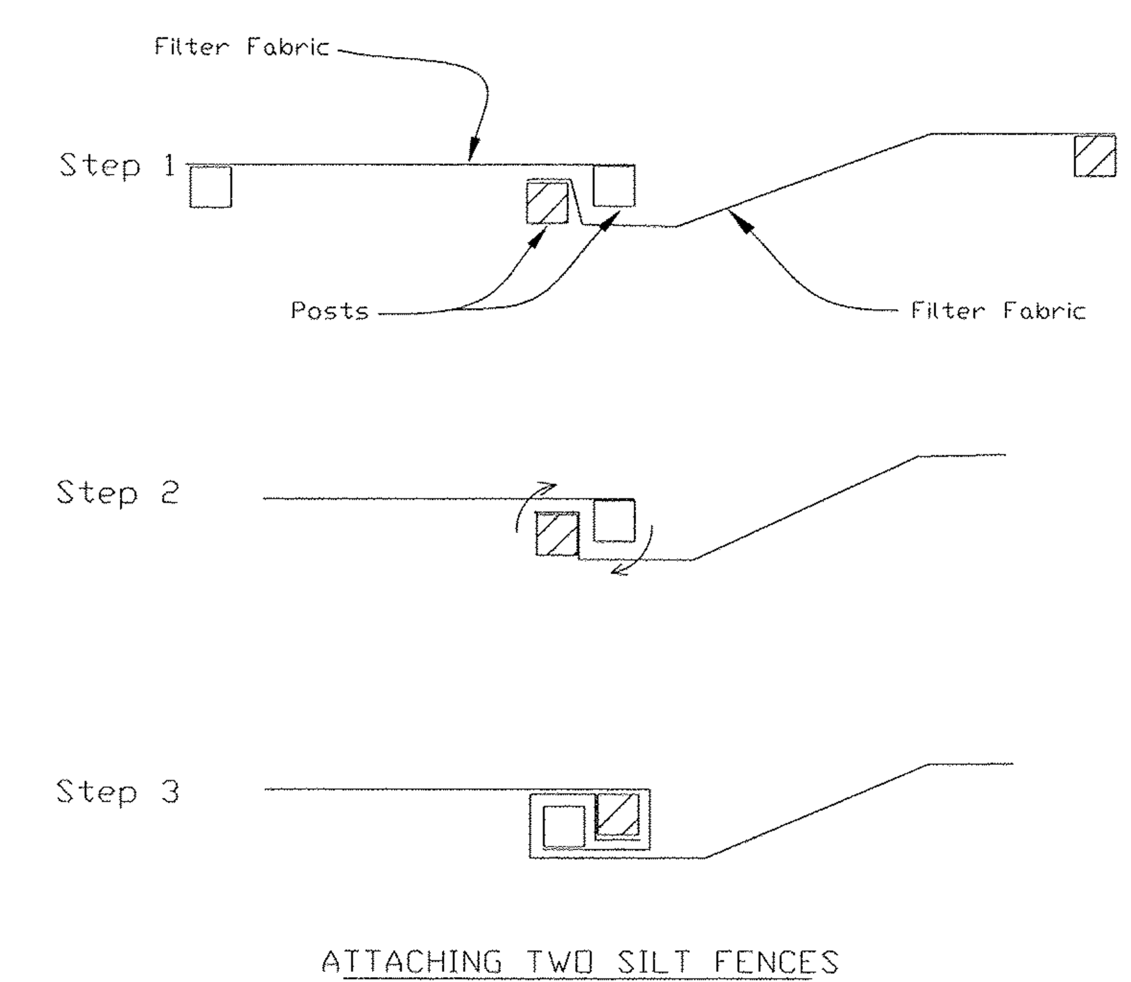
Notes:

1. Drawings are not to scale.
2. Ends of wattles or rolled excelsior shall be turned at least 6" upslope.
3. Recommended stakes are 1 1/8" wide x 1 1/8" thick x 30" long
4. Stakes shall not extend above the straw wattle more than 2".
5. Spacing: The toe of the upstream ditch check shall create a horizontal line with the top of the downstream ditch check.
6. When compost filter sock ditch check is used, place a compost berm upstream of the filter sock (see IUM 805). A trench is not required.

REFERENCE
Project ______
Designed ______ Date ______
Checked ______ Date ______
Approved ______ Date ______

STANDARD DWG. NO.
IUM-514
SHEET 1 OF 1
DATE 8-19-11

SILT FENCE - SPLICING TWO FENCES

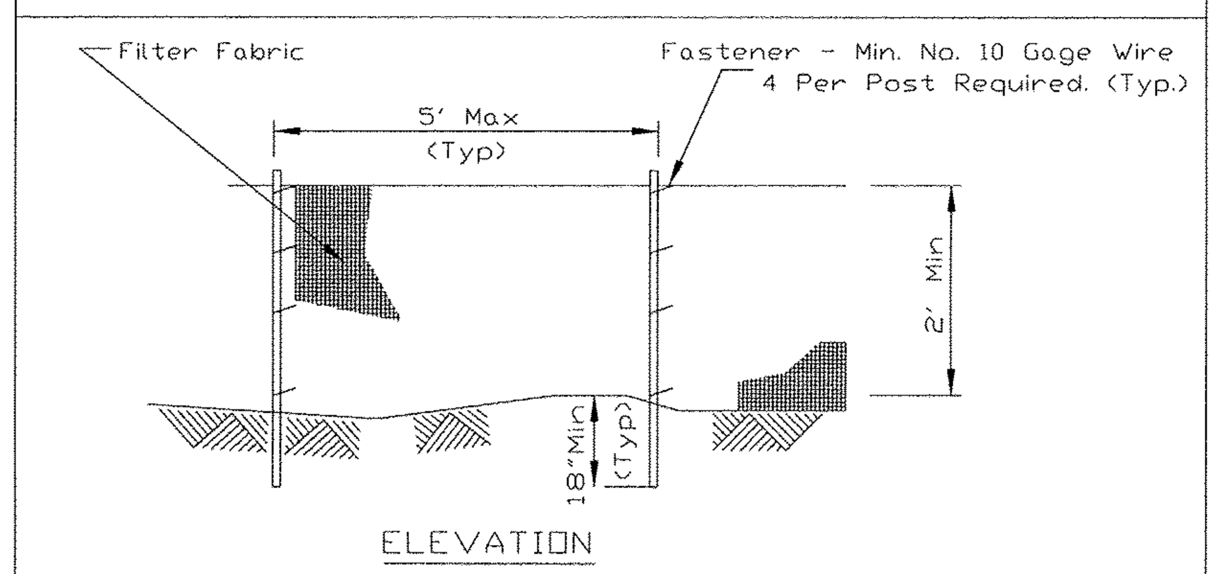


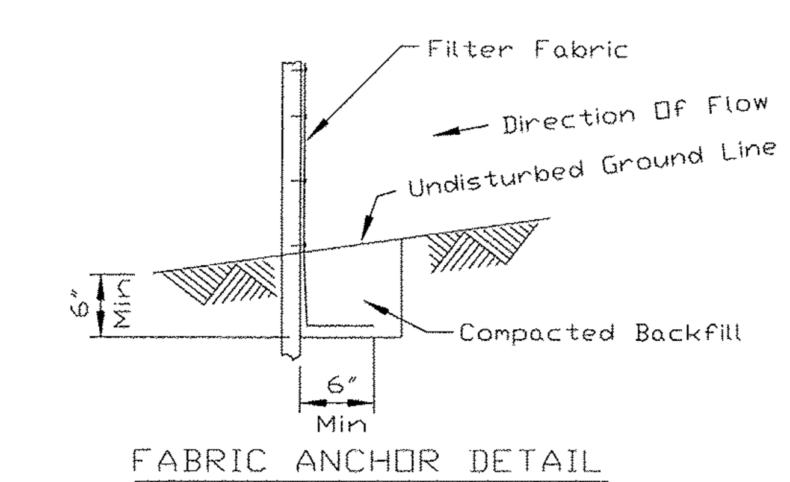
1. Place the end post of the second fence inside the end post of the first fence.
2. Rotate both posts at least 180 degrees in a clockwise direction to create a tight seal with the fabric material.
3. Cut the fabric near the bottom of the stakes to accommodate the 6" flap.
4. Drive both posts a minimum of 18 inches into the ground and bury the flap.
5. Compact backfill (particularly at splices) completely to prevent stormwater piping.

REFERENCE
Project ______
Designed ______ Date ______
Checked ______ Date ______
Approved ______ Date ______

STANDARD DWG. NO.
IUM-620B(W)
SHEET 1 OF 1
DATE 3-16-2012

SILT FENCE PLAN



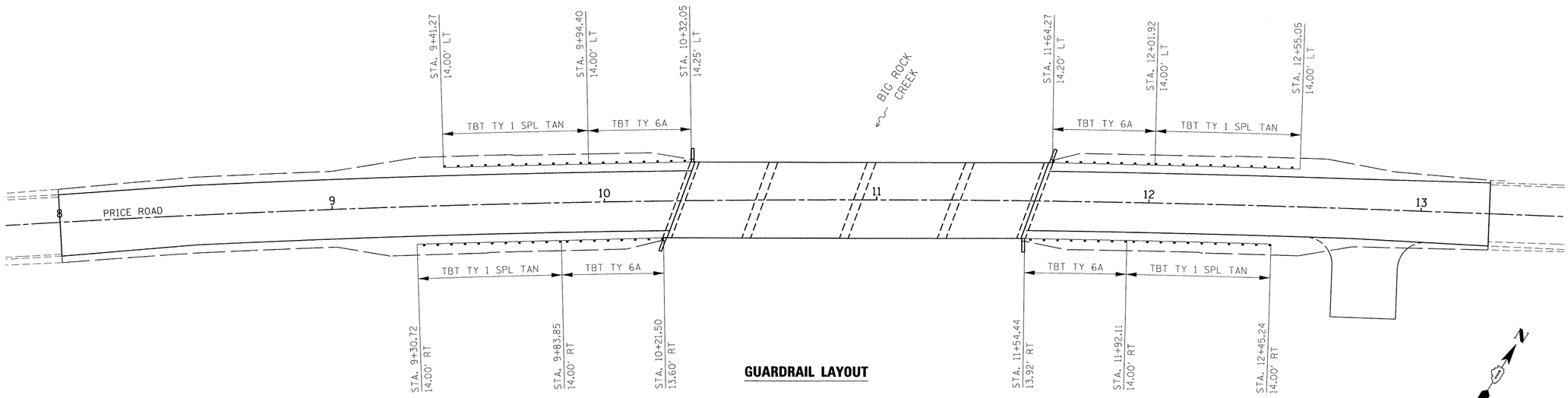


NOTES:
1. Temporary sediment fence shall be installed prior to any grading work in the area to be protected. They shall be maintained throughout the construction period and removed in conjunction with the final grading and site stabilization.
2. Filter fabric shall meet the requirements of material specification 592 Geotextile Table 1 or 2, Class I with equivalent opening size of at least 30 for nonwoven and 40 for woven.
3. Fence posts shall be either standard steel post or wood post with a minimum cross-sectional area of 3.0 sq. in.

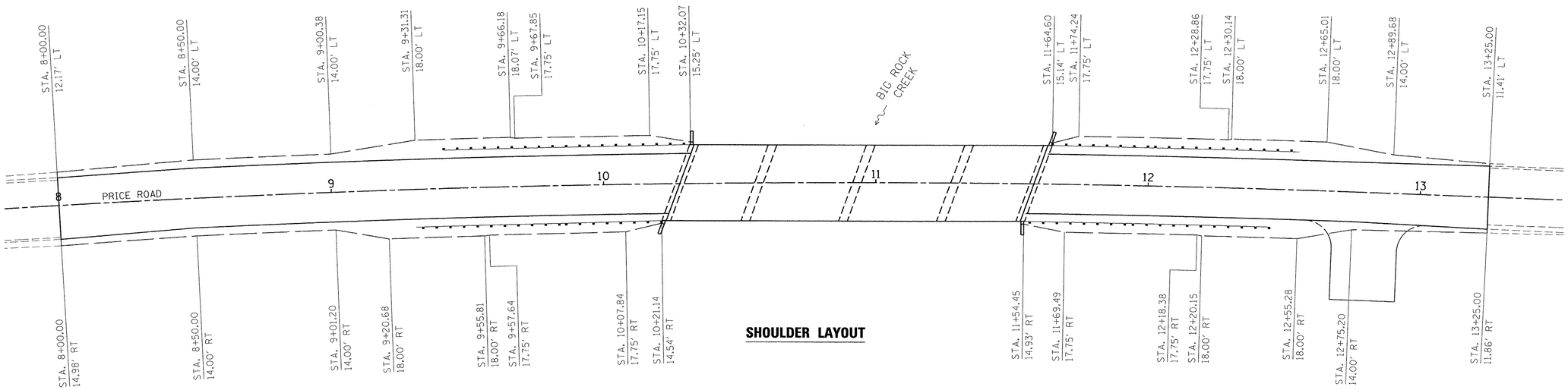
REFERENCE
Project ______
Designed ______ Date ______
Checked ______ Date ______
Approved ______ Date ______

STANDARD DWG. NO.
IUM-620
SHEET 1 OF 2
DATE 3-16-12

FILE NAME = 140276-sht-erosion.dgn	USER NAME = $USER$	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EROSION CONTROL STANDARDS PRICE ROAD	T.R.	SECTION	COUNTY	TOTAL SHEETS / SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		DRAWN - T.W.K.	REVISED -			199	11-03112-00-BR	KANE	39 / 9
HLR ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = $SCALE$	CHECKED - S.W.M.	REVISED -			BIG ROCK TOWNSHIP		CONTRACT NO. 61D84	
	PLOT DATE = 2/22/2017	DATE - 02/21/17	REVISED -		SCALE: / SHEET NO. 3 OF 3 SHEETS / STA. / TO STA.		ILLINOIS	FED. AID PROJECT BROS-0089(181)	



GUARDRAIL LAYOUT



SHOULDER LAYOUT

FILE NAME = 140276-sht-grdrl-shld.dgn	USER NAME = $USER$	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3065 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		DRAWN - T.W.K.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = $SCALE$	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 2/22/2017	DATE - 02/21/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

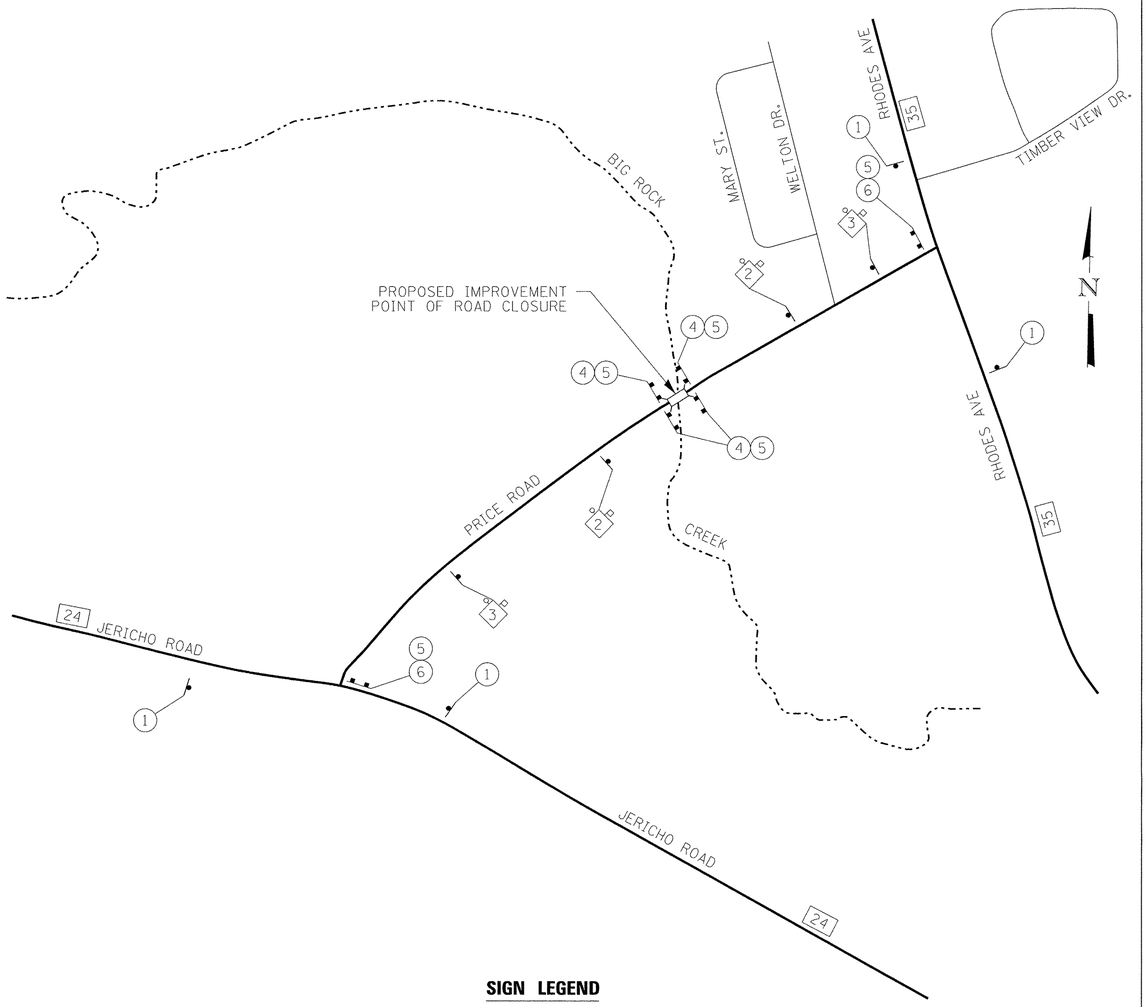
GUARDRAIL AND SHOULDER LAYOUTS
PRICE ROAD

SCALE: | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
199	11-03112-00-BR	KANE	39	10
BIG ROCK TOWNSHIP		CONTRACT NO. 61D84		
	ILLINOIS FED. AID PROJECT BROS-0089(181)			

DETOUR GENERAL NOTES

1. ALL SIGNING SHALL BE IN ACCORDANCE WITH THE APPLICABLE PROVISIONS OF THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL. 1, 2016", "THE QUALITY STANDARD FOR WORK ZONE TRAFFIC CONTROL DEVICES ADOPTED 2010", THE DETAILS IN THESE PLANS, THE LATEST EDITION OF THE STATE OF ILLINOIS "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES", AND THE SPECIAL PROVISIONS FOR TRAFFIC CONTROL AND PROTECTION.
2. THE CONTRACTOR SHALL SCHEDULE ALL WORK IN AN EXPEDIENT MANNER TO REDUCE THE LENGTH OF TIME THAT THE CLOSURE NEEDS TO BE IN EFFECT.
3. THE ENGINEER SHALL BE NOTIFIED IN WRITING AT LEAST THREE WEEKS PRIOR TO THE DAY THE CLOSURE IS TO BE IN EFFECT.
4. THE CONTRACTOR SHALL SUPPLY TO THE ENGINEER THE NAMES AND TELEPHONE NUMBERS OF HIS REPRESENTATIVES ON THE CONSTRUCTION SITE AND HIS REPRESENTATIVE RESPONSIBLE FOR THE SIGNING PRIOR TO THE START OF THE WORK.
5. THE ENGINEER WILL FIELD LOCATE THE POSITIONS OF ANY SIGNS IF REQUESTED BY THE CONTRACTOR IN WRITING AT LEAST THREE WEEKS PRIOR TO THE DAY THE CLOSURE IS TO BE IN EFFECT.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. THE ROAD SHALL NOT BE CLOSED UNTIL ALL SIGNING IS ERECTED IN ACCORDANCE WITH THE PLAN AND INSPECTED AND APPROVED BY THE ENGINEER.
8. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT ALL BARRICADES, SIGNS, LIGHTS, AND OTHER DEVICES INSTALLED BY HIM ARE IN PLACE AND OPERATING 24 HOURS EACH DAY INCLUDING SUNDAYS AND HOLIDAYS DURING THE TIME THE CLOSURE IS IN EFFECT.
9. THE TRAFFIC CONTROL SHOWN ON THE PLAN IS THE MINIMUM NECESSARY TO ENSURE THIS ROAD CLOSURE. THE CONTRACTOR SHALL MAKE ALL CHANGES IN TRAFFIC CONTROL DEEMED NECESSARY BY THE ENGINEER.
10. ALL EXISTING SIGNING THAT IS NOT APPLICABLE WHILE THE CLOSURE IS IN EFFECT SHALL BE COMPLETELY COVERED BY THE CONTRACTOR, IN A MANNER APPROVED BY THE ENGINEER.
11. ALL SIGNING EXCEPT REGULATORY SIGNS SHALL HAVE BLACK LEGENDS ON FLUORESCENT ORANGE SHEETING AND STANDARD BLACK BORDERS. THE FLUORESCENT ORANGE REFLECTIVE SHEETING SHALL MEET THE REQUIREMENTS OF ARTICLE 1106.01 OF THE STANDARD SPECIFICATIONS. THE CAPITAL LETTERS SHALL BE 6" WITH 5" LOWER CASE. ALL SIGNING SHALL BE NEW OR LIKE NEW CONDITION. THE ENGINEER SHALL BE THE SOLE JUDGE OF THE CONDITION AND ACCEPTANCE OF THE SIGNS.
12. THE SIZES OF ALL SIGNS NOT SPECIFIED IN THESE PLANS SHALL BE AS REQUIRED BY THE ILLINOIS MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES.
13. AS A MINIMUM, ALL AMBER FLASHING LIGHTS SHALL MEET THE REQUIREMENTS FOR TYPE A-LOW INTENSITY FLASHING LIGHTS IN ARTICLE 1106.02 OF THE STANDARD SPECIFICATIONS. ALL LIGHTS SHALL OPERATE DURING THE HOURS OF DARKNESS. ONLY LIGHTS THAT HAVE BEEN APPROVED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION SHALL BE USED.
14. THE MINIMUM DIMENSIONS OF THE ORANGE WARNING FLAGS SHOWN IN THE PLANS ARE 18" BY 18".
15. ALL BARRICADES SHALL HAVE REFLECTORIZED STRIPING ON BOTH SIDES OF THE BARRICADES. THE TYPE III BARRICADES USED AT THE POINT OF CLOSURE TO THRU TRAFFIC SHALL NOT EXCEED 8'-0" IN WIDTH EACH, FOR A SINGLE APPROACH LANE.
16. THE "BRIDGE OUT" (R11-2), SIGNS SHALL BE MOUNTED ABOVE THE TOP OF THE BARRICADE. ALL TYPE III BARRICADES SHALL HAVE TWO (2) AMBER TYPE A-LOW INTENSITY FLASHING LIGHTS SPACED NEAR THE CENTERLINE OF THE SUPPORTS.
17. DURING NON-WORKING HOURS AT THE POINT OF ROAD CLOSURE TO ALL TRAFFIC THE CONTRACTOR SHALL PROVIDE A MEANS TO RESTRAIN THE BARRICADES FROM EASY MOVEMENT BY VANDALS. THE CHOSEN METHOD SHALL BE APPROVED BY THE ENGINEER.
18. CONSTRUCTION EQUIPMENT SHALL NOT BE PARKED IMMEDIATELY BEHIND THE TYPE III BARRICADES DURING NON-WORKING HOURS. IN ANY EVENT ARTICLE 701.11 OF THE STANDARD SPECIFICATIONS SHALL APPLY.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE VISIBILITY OF ALL CONSTRUCTION SIGNING, INCLUDING BRUSHING BACK VEGETATION IF DEEMED NECESSARY BY THE ENGINEER.
20. THE FOLLOWING ILLINOIS DEPARTMENT OF TRANSPORTATION STANDARDS ARE APPLICABLE FOR THIS WORK: STANDARD 701901, BLR 21
21. THE ENGINEER SHALL BE NOTIFIED AT LEAST TWO (2) DAYS BEFORE THE ROAD IS TO BE OPENED TO TRAFFIC.



SIGN LEGEND

1. Price Road CLOSED AT Big Rock Creek — R11-3 60" x 30" (4 REQ'D)
2. ROAD CLOSED 500 FT — W20-3, 48" x 48" WITH AMBER FLASHING LIGHT AND FLAG. (2 REQ'D)
3. ROAD CLOSED AHEAD — W20-3, 48" x 48" WITH AMBER FLASHING LIGHT AND FLAG. (2 REQ'D)
4. BRIDGE OUT — R11-2 48" x 30" (4 REQ'D)
5. TYPE III BARRICADES WITH TWO FLASHING LIGHTS EACH. HIGHWAY STD. 701901 AND BLR 21
6. ROAD CLOSED TO THRU TRAFFIC — R11-4 60" x 30" (2 REQ'D)

FILE NAME = 140276-sht-traffic-cont.dgn	USER NAME = $USER$	DESIGNED - J.W.F.	REVISED -	
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - T.W.K.	REVISED -	
	PLOT SCALE = $SCALE$	CHECKED - S.W.M.	REVISED -	
	PLOT DATE = 2/22/2017	DATE - 02/21/17	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TRAFFIC CONTROL PLAN AND NOTES
PRICE ROAD

SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA.

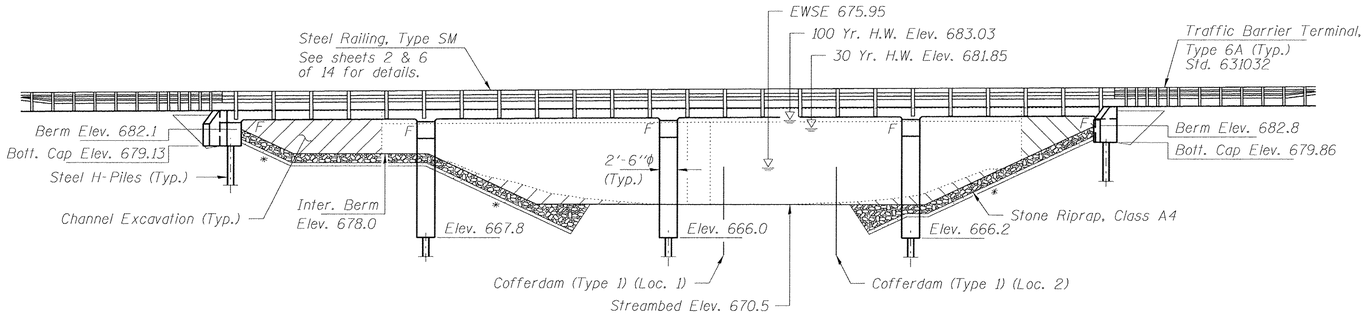
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
199	11-03112-00-BR	KANE	39	11
BIG ROCK TOWNSHIP		CONTRACT NO. 61D84		
ILLINOIS	FED. AID PROJECT BROS-0089(181)			

BENCHMARK: Chiseled "□" on S.E. wingwall. 14' Rt., Sta. 11+43, Elev. 684.75

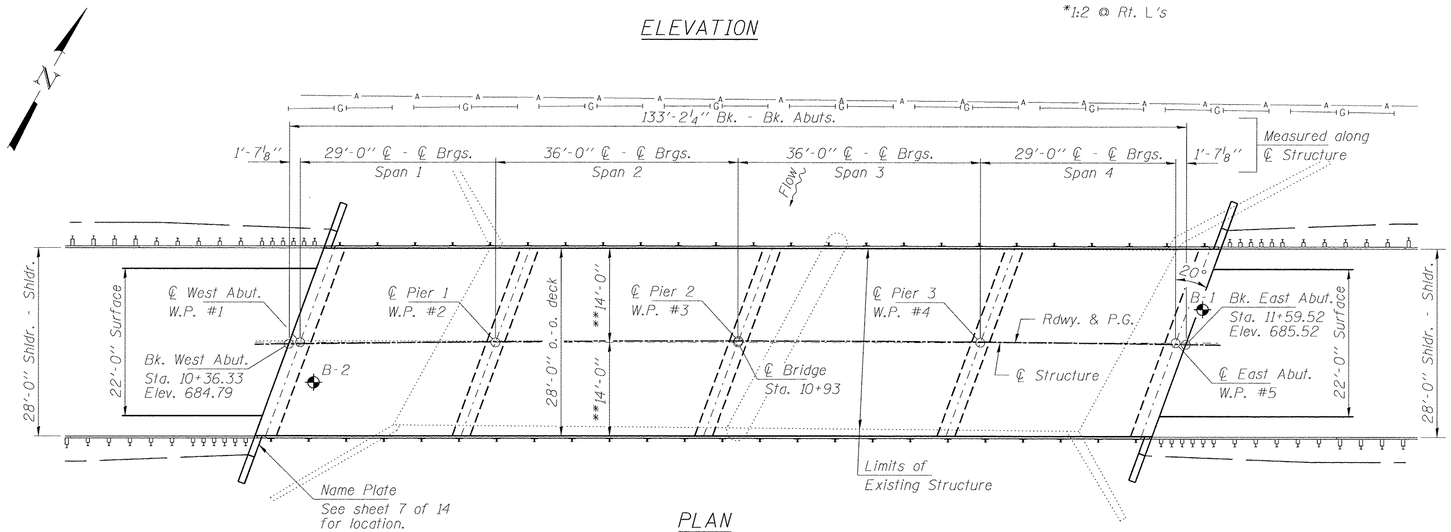
EXISTING STRUCTURE: SN 045-3106; Two span precast prestressed concrete deck beam bridge on closed concrete abutments and wingwalls. 102.1' bk.-bk. abuts.; 27.0' o.-o. deck.

Structure closed to traffic during construction.

Salvage: None



ELEVATION



PLAN

**Measured perpendicular to ℄ of Structure

GENERAL NOTES

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

Excavation required to construct the Abutments and Piers shall be included in the cost of Concrete Structures. No additional compensation will be allowed for Structure Excavation or Cofferdam Excavation.

All proposed construction activities shall be in accordance with Regional Permits 3 & 7 of the Department of the Army authorized under Section 404 of the Clean Water Act. The IEPA has issued Section 401 Water Quality Certification for this activity. See Special Provisions for conditions.

The Contractor shall make allowance for the deflection of forms, shrinkage, and settlement of falsework, in addition to allowance for dead load deflection.

Protective Coat shall be applied to the top surface and the sides of the concrete deck and wingwalls.

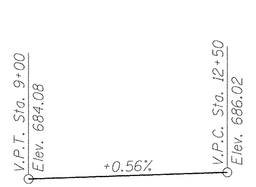
Bridge Deck Grooving shall be completed on the bridge deck.

Pavement rollers shall not be allowed on bridge deck grooving.

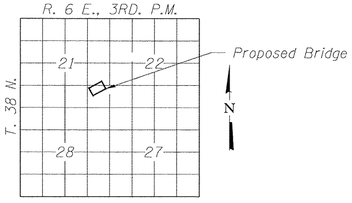
All construction joints shall be bonded.

Reinforcement bars designated (E) shall be epoxy coated.

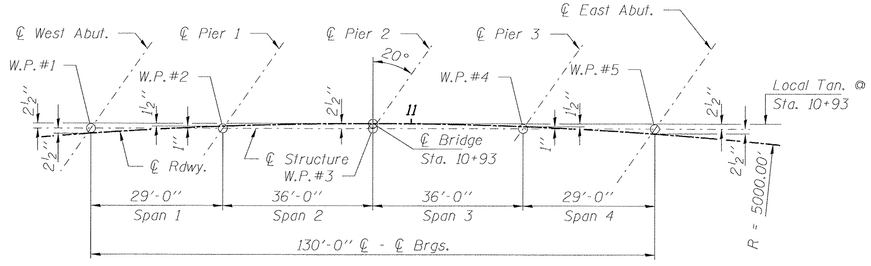
INDEX OF STRUCTURE SHEETS



PROFILE GRADE
(along ℄ Roadway)



LOCATION SKETCH



OFFSET SKETCH

DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elevations (ft.)					
	W. Abut.	Pier 1	Pier 2	Pier 3	E. Abut.	Item 113
Q100	679.1	673.8	662.8	663.4	679.9	5
Q200	679.1	673.6	661.2	661.9	679.9	
Design	679.1	673.8	662.8	663.4	679.9	
Check	679.1	673.6	661.2	661.9	679.9	

WATERWAY INFORMATION

Drainage Area = 61.5 Sq. Mi. Existing Low Grade Elev. 682.5 @ Sta. 7+00 Proposed Low Grade Elev. 682.5 @ Sta. 7+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Natural	Head - Ft.		Headwater El.	
			Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.
Design	30	5454	780	880	681.85	1.05	0.87	682.90	682.72
Base/Overtop	100	7986.8	820	1010	683.03	1.17	1.11	684.20	684.14
Scour Check	200	9962	820	1020	683.79	1.16	0.92	684.95	684.71

DESIGN SPECIFICATIONS

2014 AASHTO LRFD Bridge Design Specifications, 7th Edition with 2015 & 2016 Interims.

LOADING HL-93

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

DESIGN STRESSES

f'c = 5,000 psi (Superstructure)
f'c = 3,500 psi (Substructure)
fy = 60,000 psi (Reinf.)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.064g
Design Spectral Acceleration at 0.2 sec. (S_{DS}) = 0.123g
Soil Site Class = C

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."

Andrew E. Linderwager 01/26/2017

ILLINOIS STRUCTURAL NO. 081-006218

LICENSED STRUCTURAL ENGINEER — ANDREW E. LINDERWAGER — 081-006218 — CHICAGO, IL — STATE OF ILLINOIS

Expires 11-30-2018

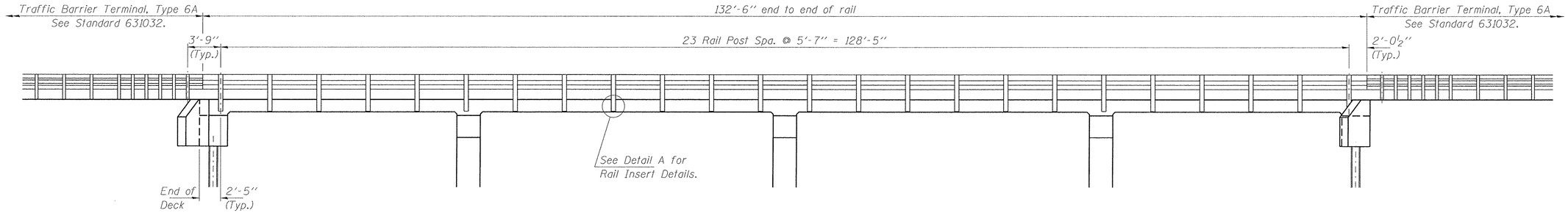
GENERAL PLAN AND ELEVATION
T.R. 199 / PRICE ROAD
OVER BIG ROCK CREEK
SECTION 11-03112-00-BR
BIG ROCK ROAD DISTRICT
STATION 10+93
STRUCTURE NO. 045-9972

FILE NAME = 140276-sht-bridge4span.DGN	USER NAME =	DESIGNED - L.A.P.	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 - A.E.U.	REVISED -
	PLOT SCALE =	DRAWN - D.A.B.	REVISED -
	PLOT DATE = 2/22/2017	CHECKED - A.E.U.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN AND ELEVATION
STRUCTURE NO. 045-9972
SHEET NO. 1 OF 14 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
199	11-03112-00-BR	KANE	39	12
BIG ROCK TOWNSHIP		CONTRACT NO. 61D84		
	ILLINOIS	FED. AID PROJECT BROS-0089(178)		



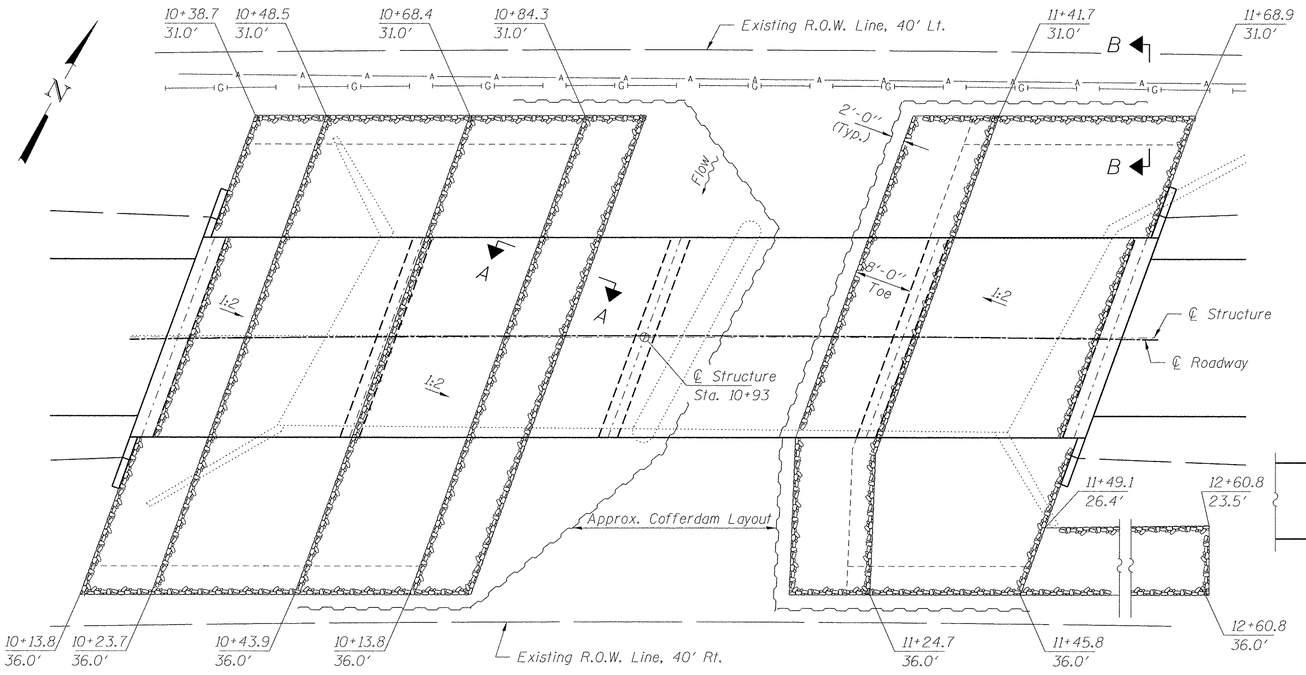
ELEVATION

Showing Rail Post Spaces

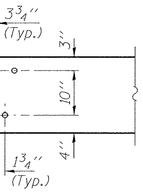
See sheet 6 of 14 for Railing Details.

COFFERDAM DESIGN DATA

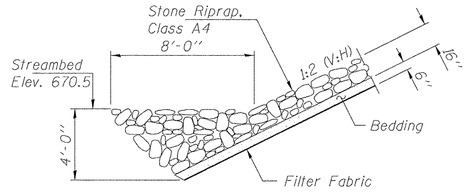
CDWE = 678.95
ESWE = 675.95
Streambed Elev. = 670.5
Est. Bott. of Footing = 666.0
Ground Surface Varies
Seal Coat Not Required



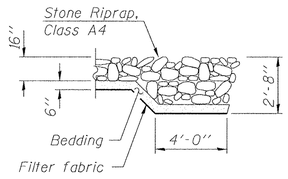
RIPRAP PLAN



DETAIL A



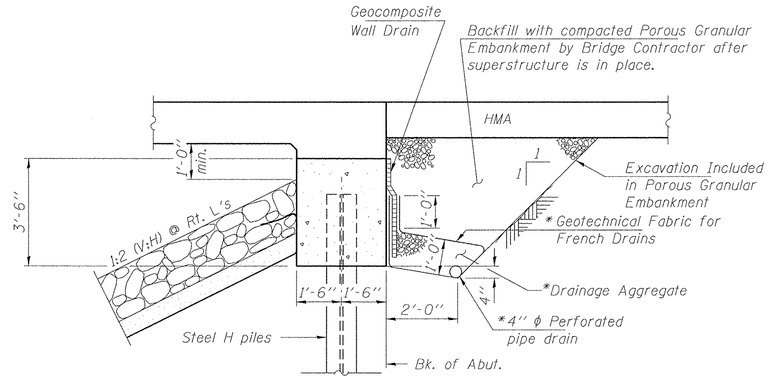
SECTION A-A



SECTION B-B

BIG ROCK CREEK
BUILT 201_
BIG ROCK TOWNSHIP
KANE COUNTY
SECTION 11-03112-00-BR
STA. 10+93
STR. NO. 045-9972 LOADING HL-93

NAME PLATE
See Std. 515001



SECTION THRU INTEGRAL ABUTMENT

(Horiz. dim. @ Rt. L's)

* Included in the cost of Pipe Underdrains for Structures.

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

TOTAL BILL OF MATERIAL

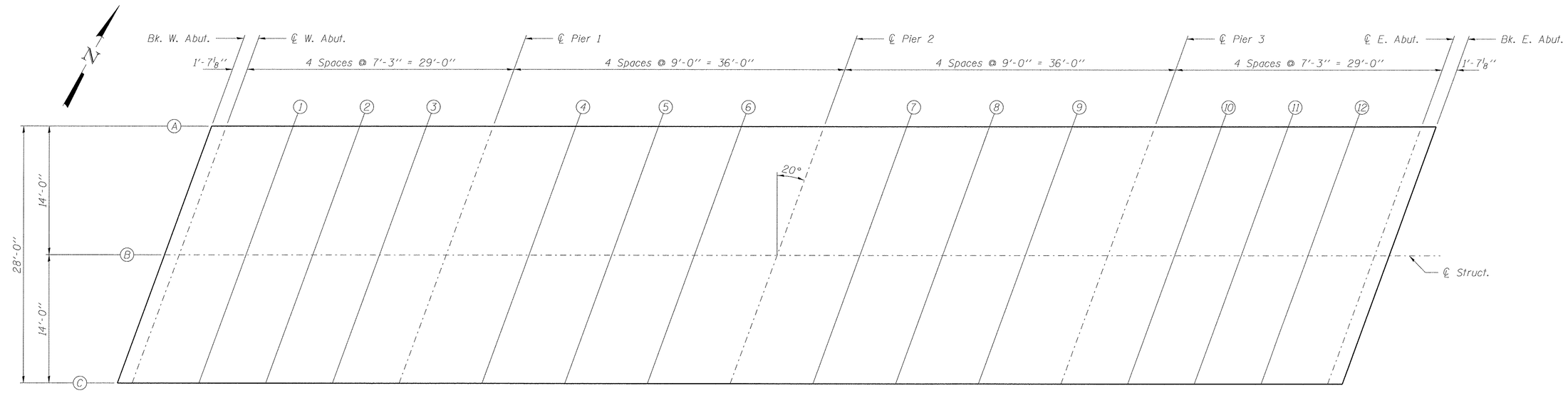
ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.			345
Porous Granular Embankment	Cu Yd.			60
Stone Riprap, Class A4	Ton			720
Filter Fabric	Sq. Yd.			870
Removal of Existing Structures	Each			1
Cofferdam (Type 1) (Location - 1)	Each			1
Cofferdam (Type 1) (Location - 2	Each			1
Concrete Structures	Cu. Yd.		49.0	49.0
Concrete Superstructure	Cu. Yd.	204.7		204.7
Bridge Deck Grooving	Sq. Yd.	385		385
Concrete Encasement	Cu. Yd.		45.3	45.3
Reinforcement Bars, Epoxy Coated	Pound	65,470	7,030	72,500
Steel Railing, Type SM	Foot	265		265
Furnishing Steel Piles HP10x42	Foot		315	315
Furnishing Steel Piles HP14x73	Foot		1,019	1,019
Driving Piles	Foot		1,334	1,334
Test Pile Steel HP10x42	Each		1	1
Test Pile Steel HP14x73	Each		1	1
Name Plates	Each	1		1
Geocomposite Wall Drain	Sq. Yd.			42
Bridge Deck Concrete Sealer	Sq. Ft.	4,107	176	4,283
Pipe Underdrains for Structures 4"	Foot			123

FILE NAME = 140276-sht-bridge4span.DGN | USER NAME = | DESIGNED - L.A.P. | REVISED
HAMPTON, LENZINI AND RENWICK, INC.
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959
PLOT SCALE = | CHECKED - A.E.U. | REVISED -
PLOT DATE = 2/22/2017 | DRAWN - D.A.B. | REVISED -
CHECKED - A.E.U. | REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DETAILS
STRUCTURE NO. 045-9972
SHEET NO. 2 OF 14 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
199	11-03112-00-BR	KANE	39	13
BIG ROCK TOWNSHIP		CONTRACT NO. 61D84		
		ILLINOIS	FED. AID PROJECT BROS-0089(178)	



PLAN

Dimensions measured along ℄ Structure
℄ Roadway not shown for clarity

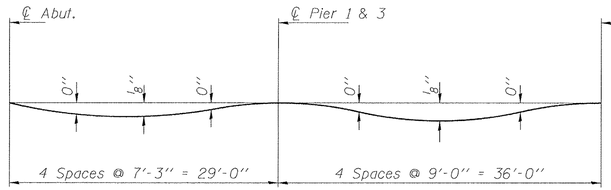
TABLE OF ELEVATIONS

LOCATION		BK. W.	CL W.	SPAN 1			CL	SPAN 2			CL	SPAN 3			CL	SPAN 4			CL E.	BK. E.
		ABUT.	ABUT.	1	2	3	PIER 1	4	5	6	PIER 2	7	8	9	PIER 3	10	11	12	ABUT.	ABUT.
LINE	T.	684.52	684.53	684.57	684.61	684.66	684.70	684.75	684.80	684.85	684.90	684.95	685.00	684.97	685.10	685.14	685.18	685.22	685.26	685.27
A	ADJ.	684.52	684.53	684.58	684.62	684.66	684.70	684.75	684.80	684.85	684.90	684.95	685.01	684.98	685.10	685.14	685.19	685.23	685.26	685.27
* Bott. of Slab		683.11	683.12	683.16	683.20	683.24	683.28	683.33	683.39	683.43	683.48	683.53	683.59	683.56	683.68	683.73	683.77	683.81	683.84	683.86

LOCATION		BK. W.	CL W.	SPAN 1			CL	SPAN 2			CL	SPAN 3			CL	SPAN 4			CL E.	BK. E.
		ABUT.	ABUT.	1	2	3	PIER 1	4	5	6	PIER 2	7	8	9	PIER 3	10	11	12	ABUT.	ABUT.
LINE	T.	684.79	684.80	684.84	684.88	684.92	684.96	685.01	685.06	685.11	685.16	685.21	685.26	685.24	685.36	685.40	685.44	685.48	685.52	685.53
B	ADJ.	684.79	684.80	684.84	684.88	684.92	684.96	685.01	685.07	685.11	685.16	685.21	685.27	685.24	685.36	685.41	685.45	685.49	685.52	685.54
Bott. of Slab		683.37	683.38	683.42	683.47	683.50	683.54	683.60	683.65	683.70	683.74	683.80	683.85	683.82	683.95	683.99	684.03	684.07	684.11	684.12

LOCATION		BK. W.	CL W.	SPAN 1			CL	SPAN 2			CL	SPAN 3			CL	SPAN 4			CL E.	BK. E.
		ABUT.	ABUT.	1	2	3	PIER 1	4	5	6	PIER 2	7	8	9	PIER 3	10	11	12	ABUT.	ABUT.
LINE	T.	684.47	684.48	684.52	684.56	684.60	684.64	684.69	684.74	684.79	684.84	684.89	684.94	684.92	685.04	685.08	685.12	685.16	685.20	685.21
C	ADJ.	684.47	684.48	684.52	684.56	684.60	684.64	684.69	684.75	684.79	684.84	684.89	684.95	684.92	685.04	685.09	685.13	685.17	685.20	685.22
* Bott. of Slab		683.05	683.06	683.10	683.15	683.18	683.22	683.28	683.33	683.38	683.42	683.48	683.53	683.50	683.63	683.67	683.71	683.75	683.79	683.80

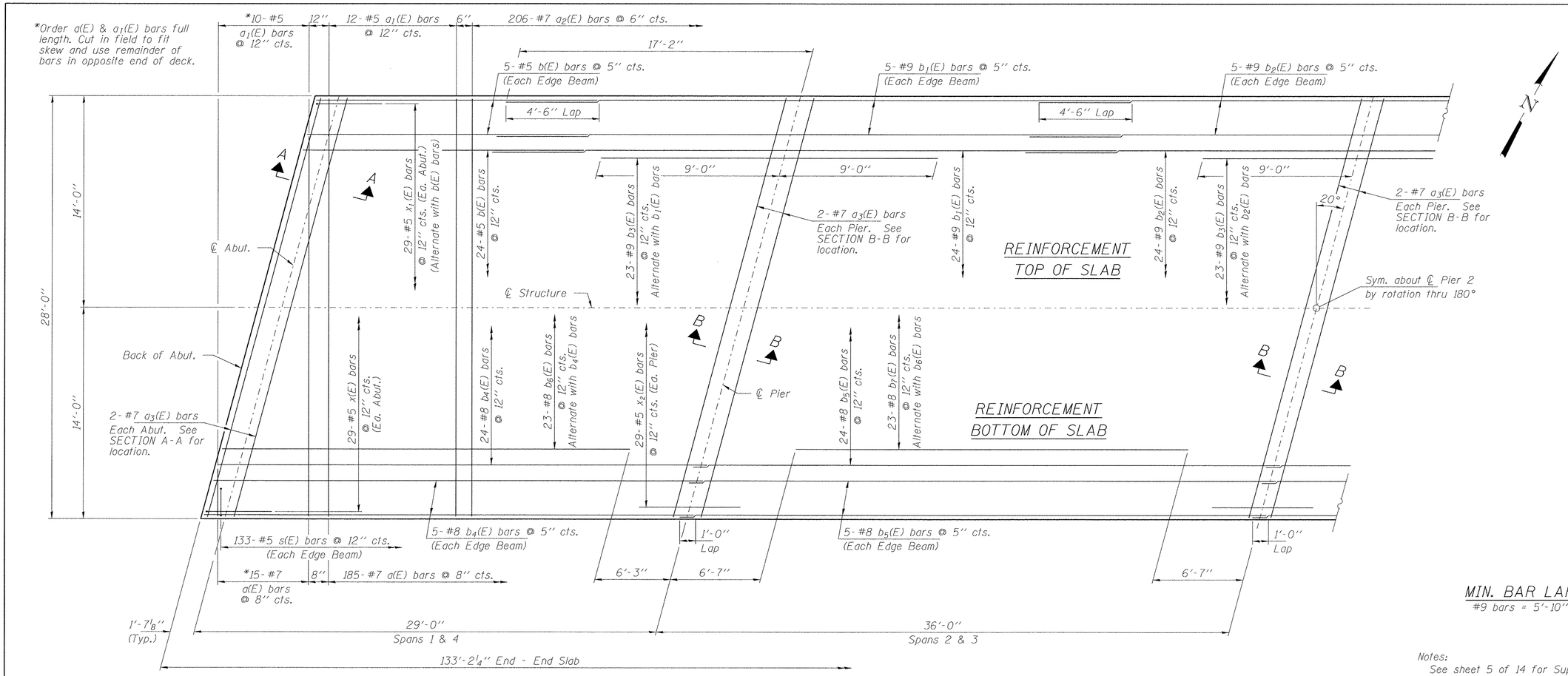
T. - Theoretical elevation at top of slab
Adj. - T adjusted for dead load deflection
* *Bottom of slab elevation equals bottom of edge beam*



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

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



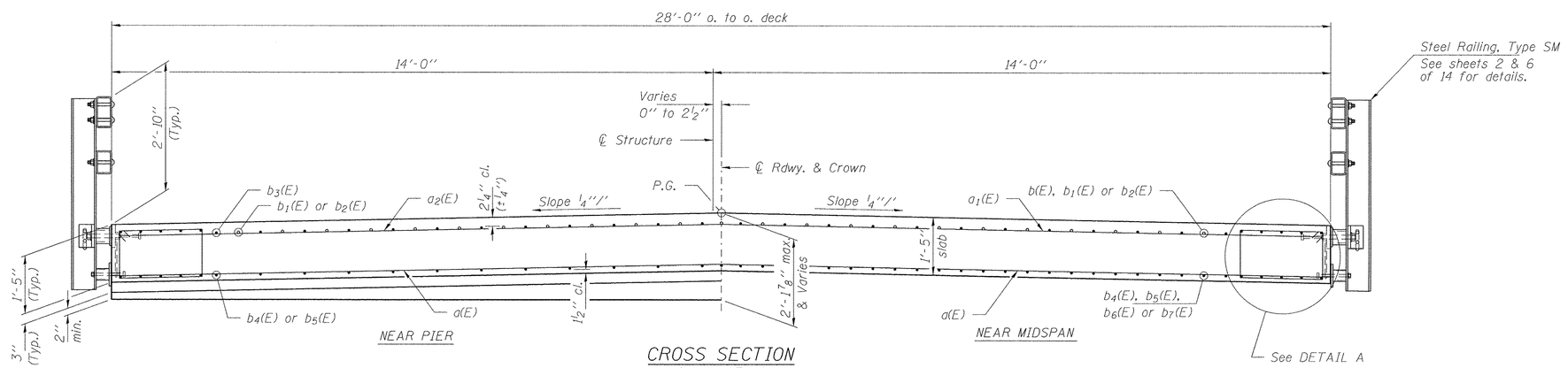
PLAN

℄ Roadway not shown for clarity

MIN. BAR LAP

#9 bars = 5'-10"

Notes:
See sheet 5 of 14 for Superstructure Details and Bill of Material.
See sheet 5 of 14 for SECTION A-A, SECTION B-B and DETAIL A.



CROSS SECTION

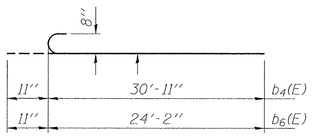
(Looking East)

FILE NAME = 140276-sht-bridge4span.DGN	USER NAME =	DESIGNED - L.A.P.	REVISED
HAMPTON, LENZINI AND RENWICK, INC. 3095 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		CHECKED - A.E.U.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	DRAWN - D.A.B.	REVISED -
	PLOT DATE = 2/22/2017	CHECKED - A.E.U.	REVISED -

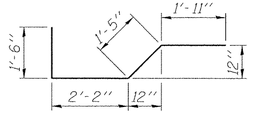
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 045-9972
SHEET NO. 4 OF 14 SHEETS

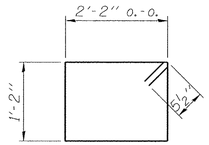
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
199	11-03112-00-BR	KANE	39	15
BIG ROCK TOWNSHIP		CONTRACT NO. 61D84		
	ILLINOIS	FED. AID PROJECT BROS-0089(178)		



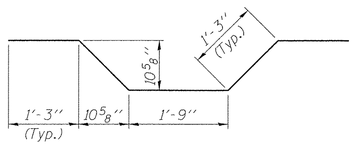
BARS $b_4(E)$ & $b_6(E)$



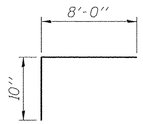
BAR $x_1(E)$



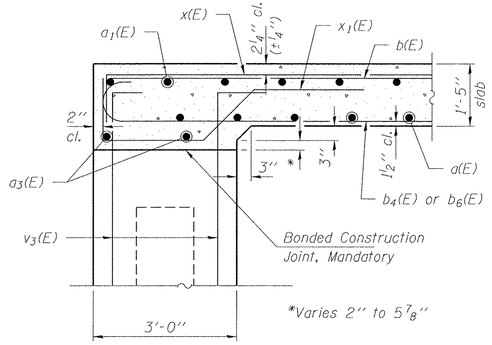
BARS s(E)



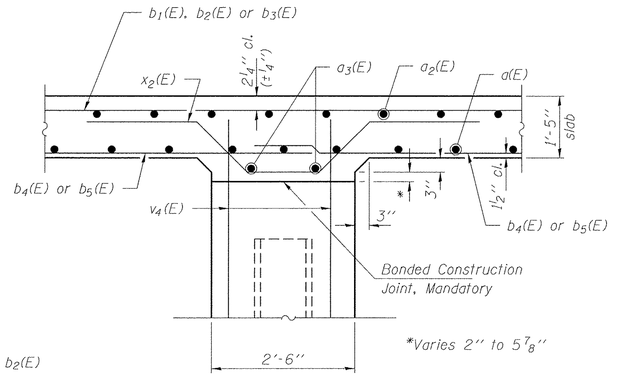
BAR $x_2(E)$



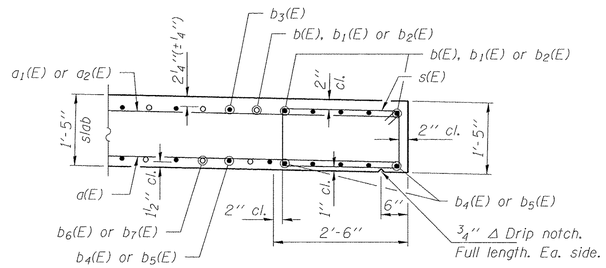
BAR x(E)



SECTION A-A



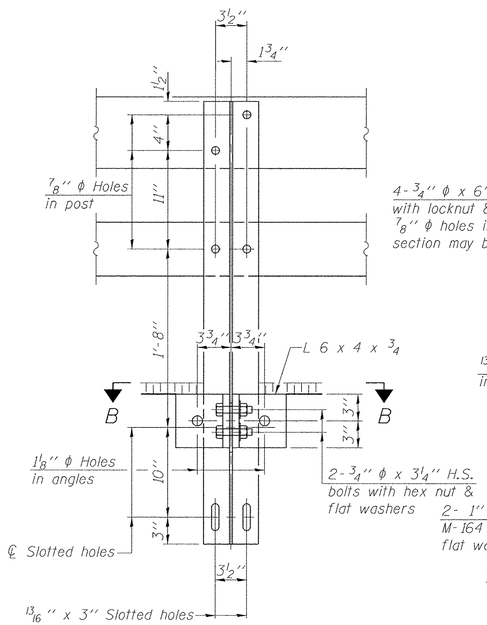
SECTION B-B



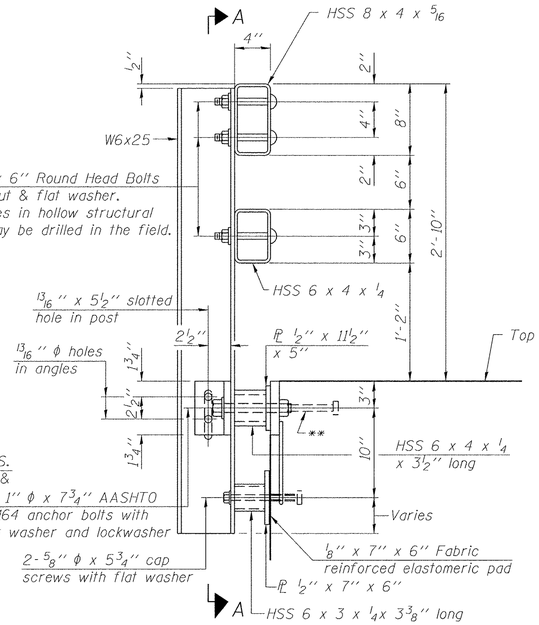
DETAIL A

SUPERSTRUCTURE BILL OF MATERIAL

BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	200	#7	27'-8''	——
$a_1(E)$	34	#5	27'-8''	——
$a_2(E)$	206	#7	27'-8''	——
$a_3(E)$	10	#7	29'-5''	——
b(E)	68	#5	14'-9''	——
$b_1(E)$	68	#9	38'-1''	——
$b_2(E)$	34	#9	41'-10''	——
$b_3(E)$	69	#9	18'-0''	——
$b_4(E)$	68	#8	31'-10''	C ——
$b_5(E)$	68	#8	37'-0''	——
$b_6(E)$	46	#8	25'-1''	C ——
$b_7(E)$	46	#8	22'-10''	——
s(E)	266	#5	7'-7''	□
x(E)	58	#5	8'-10''	└
$x_1(E)$	58	#5	6'-4''	└‾
$x_2(E)$	87	#5	6'-9''	‾└‾
Concrete Superstructure			Cu. Yd.	204.7
Bridge Deck Grooving			Sq. Yd.	385
Reinforcment Bars, Epoxy Coated			Pound	65,470
Bridge Deck Concrete Sealer			Sq. Ft.	4,107

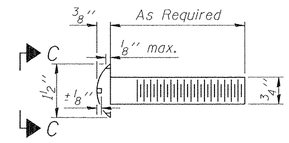


SECTION A-A

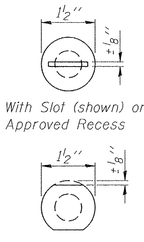


SECTION AT RAIL POST

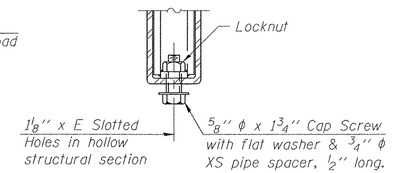
Reinforcement bars in the top of the slab may be placed with a 1 1/2" minimum clearance in the area of the rail post anchor devices. The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs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



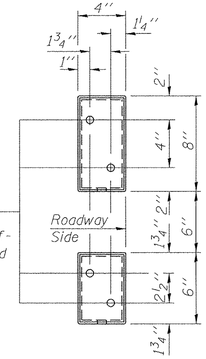
DETAIL OF 3/4" ϕ ROUND HEAD BOLT



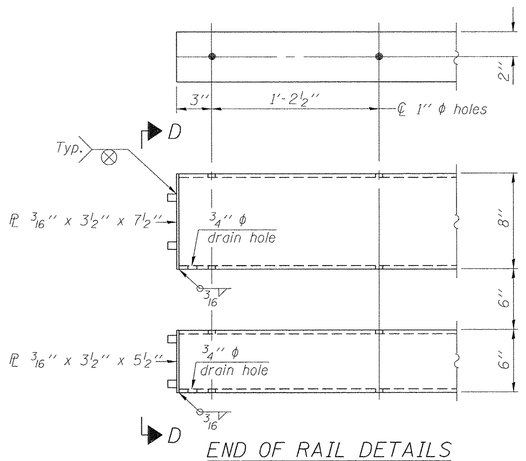
VIEW C-C



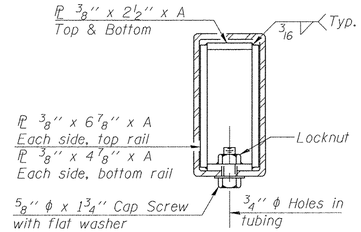
RAIL SPLICE CONNECTION AT EXPANSION JT.



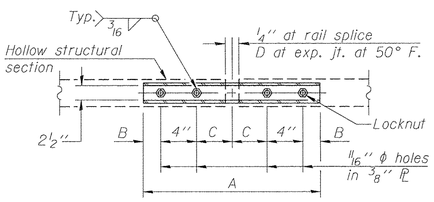
VIEW D-D



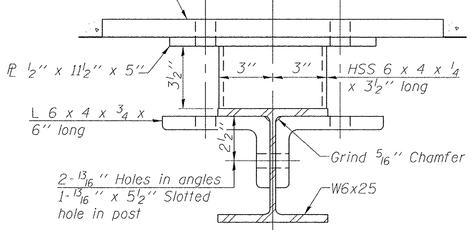
END OF RAIL DETAILS



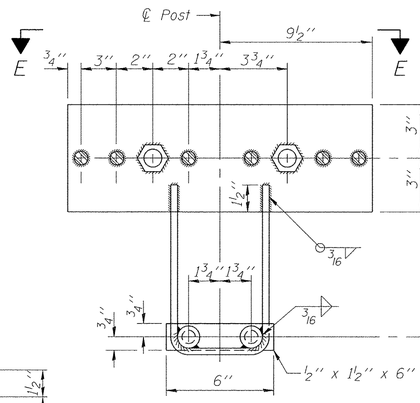
SECTION AT RAIL SPLICE



PLAN-BOTT. SPLICE PL TYPICAL

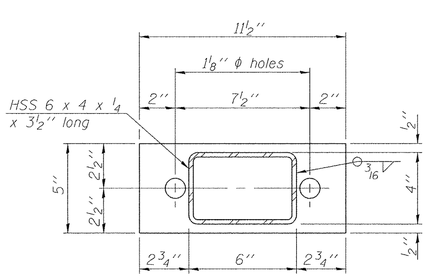


SECTION B-B

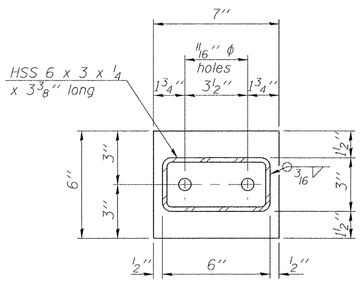


ANCHOR DEVICE

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



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

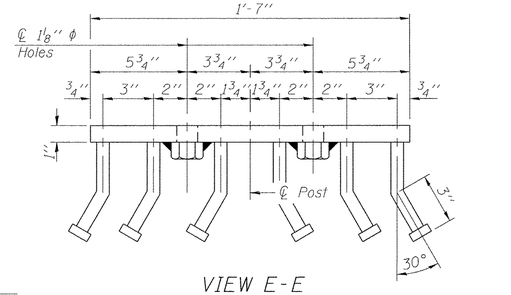


PL 1/2" x 7" x 6"

SPLICE DIMENSIONS

T	D	A	B	C	E
≤4"	2 1/2"	1'-8"	2"	4"	2 1/2"
>4" ≤6 1/2"	3 3/4"	2'-0"	2 1/2"	5 1/2"	3 1/2"
>6 1/2" ≤9"	5"	2'-4"	3 1/2"	6 1/2"	9"
>9" ≤13"	7"	2'-10"	4 1/2"	8 1/2"	11"
Rail Splice	1/4"	1'-8"	2"	4"	——

T = Total movement at expansion joint as shown on the design plans.



VIEW E-E

Notes:

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 SM.

All steel rail members 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. The anchorage studs may be bent down 1/2" to accommodate the top reinforcement bar placement.*

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	265

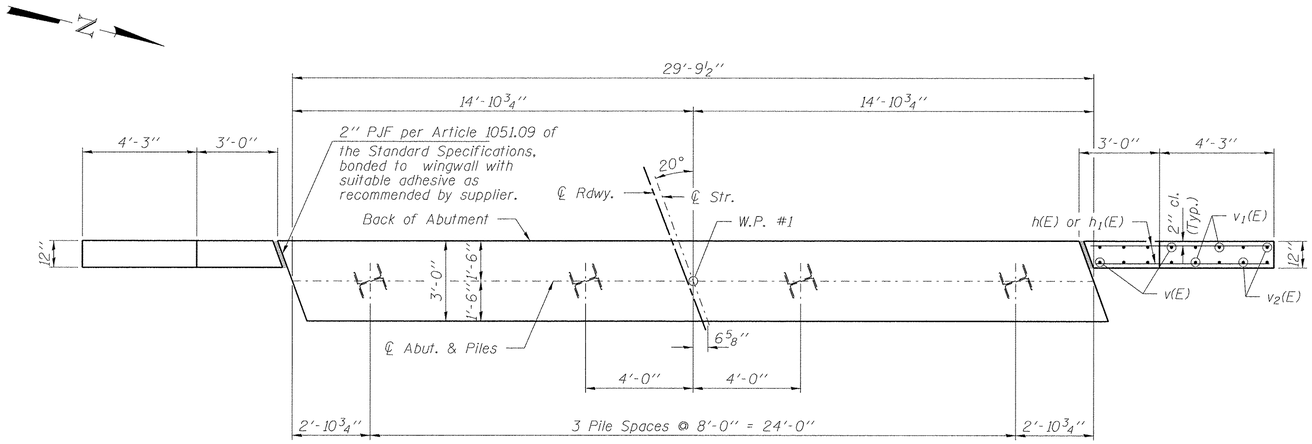
11-22-2016 (6'-3" Maximum Post Spacing)

FILE NAME = 140276-sht-bridge4span.DGN	USER NAME =	DESIGNED - L.A.P.	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 - A.E.U.	REVISED -
	PLOT SCALE =	DRAWN - D.A.B.	REVISED -
	PLOT DATE = 2/22/2017	CHECKED - A.E.U.	REVISED -

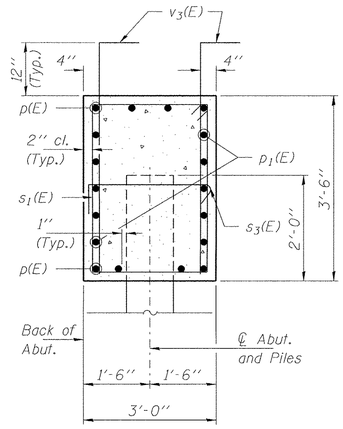
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STEEL RAILING, TYPE SM
STRUCTURE NO. 045-9972
SHEET NO. 6 OF 14 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
199	11-03112-00-BR	KANE	39	17
BIG ROCK TOWNSHIP		CONTRACT NO. 61D84		
		ILLINOIS FED. AID PROJECT BROS-0089(178)		

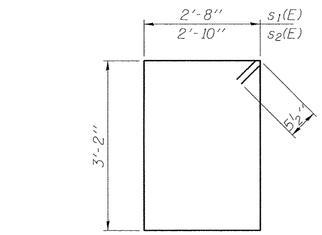


PLAN

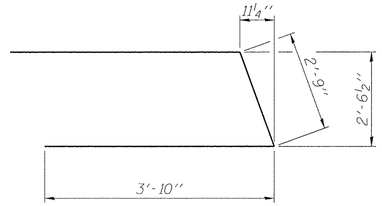


SECTION A-A

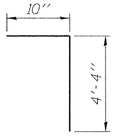
Dimensions at right angles to abutment.



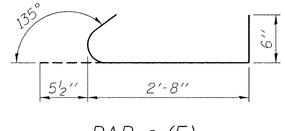
BARS s1(E) & s2(E)



BAR u(E)

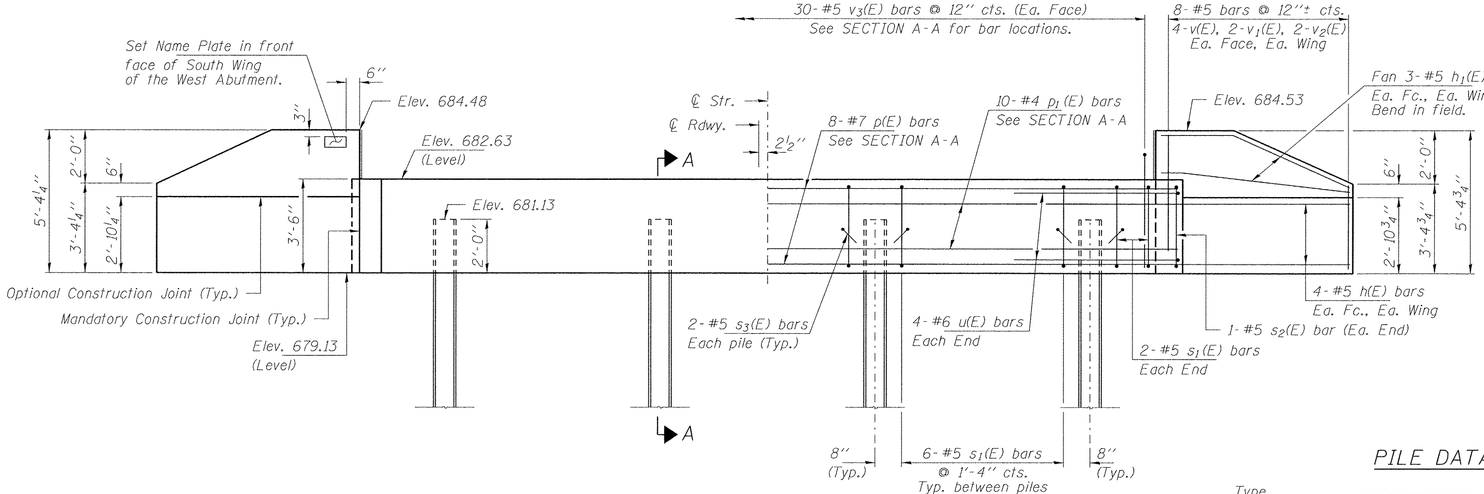


BAR v3(E)



BAR s3(E)

Notes:
Bottom of wing shall be poured monolithic with the abutment cap. Entire quantity included with Concrete Structures.
For details of piles, see sheet 10 of 14.



ELEVATION

(Looking West)

PILE DATA

Type _____ Steel HP10x42
No. Req'd. (W. Abut.) _____ *4
Factored Resistance Available (Rf) __ 118 Kips/Pile
Nominal Required Bearing (Rn) _____ 215 Kips/Pile
Est. Length _____ 45 Ft/Pile

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

BILL OF MATERIAL - WEST ABUT.

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	16	#5	8'-6"	
h1(E)	12	#5	7'-0"	
p(E)	8	#7	29'-6"	
p1(E)	10	#4	29'-6"	
s1(E)	22	#5	12'-7"	
s2(E)	2	#5	12'-11"	
s3(E)	8	#5	3'-8"	
u(E)	8	#6	10'-5"	
v(E)	16	#5	5'-0"	
v1(E)	8	#5	4'-0"	
v2(E)	8	#5	3'-1"	
v3(E)	60	#5	5'-2"	

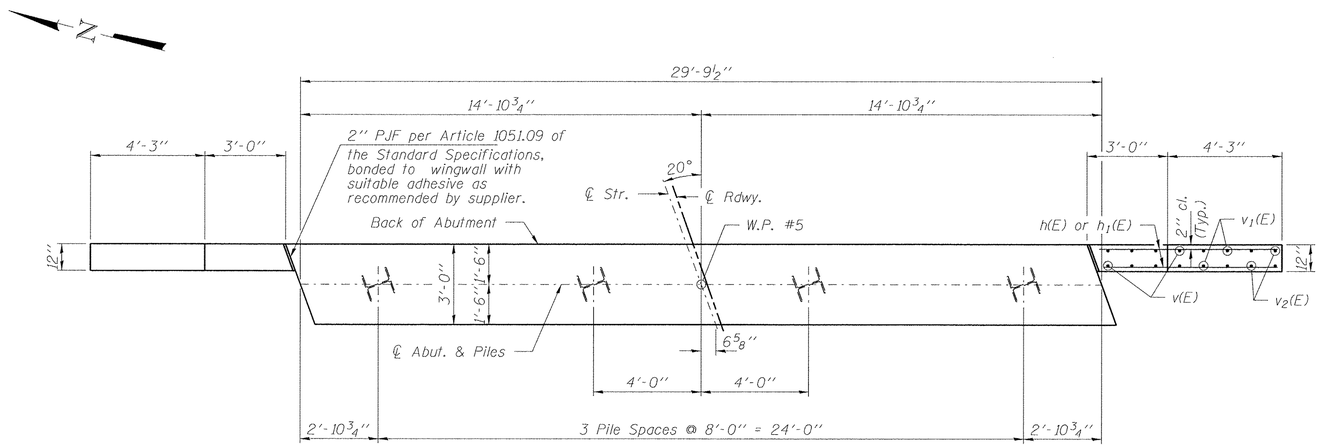
Concrete Structures	Cu. Yd.	14.2
Reinforcement Bars, Epoxy Coated	Pound	1,850
Furnishing Steel Piles HP10x42	Foot	135
Driving Piles	Foot	135
Test Pile Steel HP10x42	Each	1
Name Plates	Each	1
Bridge Deck Concrete Sealer	Sq. Ft.	88

FILE NAME = 140276-sht-bridge4span.DGN	USER NAME =	DESIGNED - L.A.P.	REVISED
HAMPTON, LENZINI AND RENWICK, INC. 3065 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		CHECKED - A.E.U.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	DRAWN - D.A.B.	REVISED -
	PLOT DATE = 2/22/2017	CHECKED - A.E.U.	REVISED -

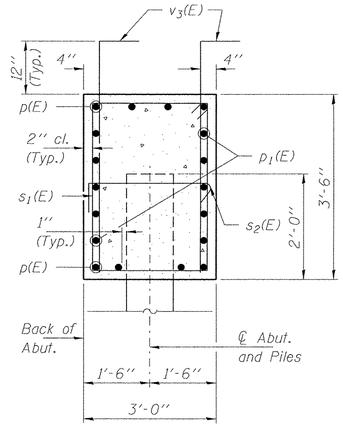
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT
STRUCTURE NO. 045-9972
SHEET NO. 7 OF 14 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
199	11-03112-00-BR	KANE	39	18
BIG ROCK TOWNSHIP		CONTRACT NO. 61D84		
		ILLINOIS	FED. AID PROJECT BROS-0089(178)	

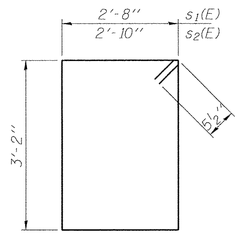


PLAN

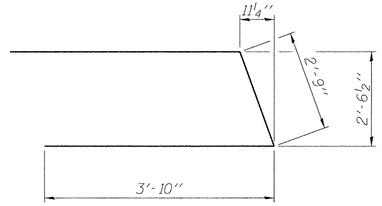


SECTION A-A

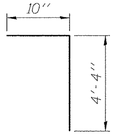
Dimensions at right angles to abutment.



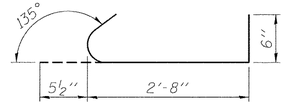
BARS s1(E) & s2(E)



BAR u(E)

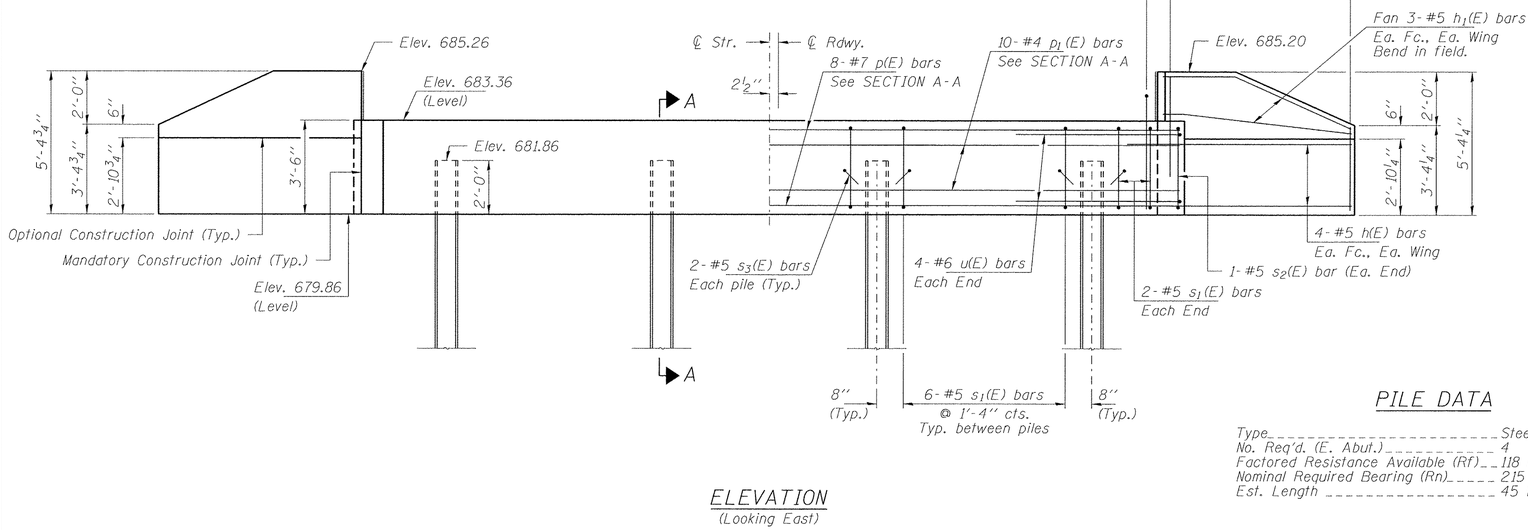


BAR v3(E)



BAR s3(E)

Notes:
Bottom of wing shall be poured monolithic with the abutment cap. Entire quantity included with Concrete Structures.
For details of piles, see sheet 10 of 14.



ELEVATION

(Looking East)

PILE DATA

Type _____ Steel HP10x42
No. Req'd. (E. Abut.) _____ 4
Factored Resistance Available (Rf) _____ 118 Kips/Pile
Nominal Required Bearing (Rn) _____ 215 Kips/Pile
Est. Length _____ 45 Ft/Pile

BILL OF MATERIAL - EAST ABUT.

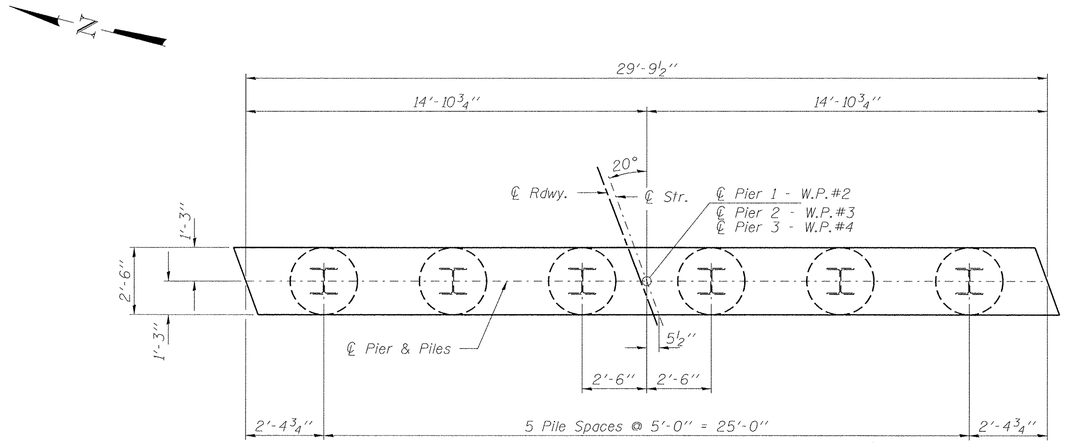
BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	16	#5	8'-6"	
h1(E)	12	#5	7'-0"	
p(E)	8	#7	29'-6"	
p1(E)	10	#4	29'-6"	
s1(E)	22	#5	12'-7"	
s2(E)	2	#5	12'-11"	
s3(E)	8	#5	3'-8"	
u(E)	8	#6	10'-5"	
v(E)	16	#5	5'-0"	
v1(E)	8	#5	4'-0"	
v2(E)	8	#5	3'-1"	
v3(E)	60	#5	5'-2"	
Concrete Structures			Cu. Yd.	14.2
Reinforcement Bars, Epoxy Coated			Pound	1,850
Furnishing Steel Piles HP10x42			Foot	180
Driving Piles			Foot	180
Bridge Deck Concrete Sealer			Sq. Ft.	88

FILE NAME = 140276-sht-bridge4span.DGN | USER NAME = | DESIGNED - L.A.P. | 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 - A.E.U. | REVISED -
PLOT SCALE = | DRAWN - D.A.B. | REVISED -
PLOT DATE = 2/22/2017 | CHECKED - A.E.U. | REVISED -

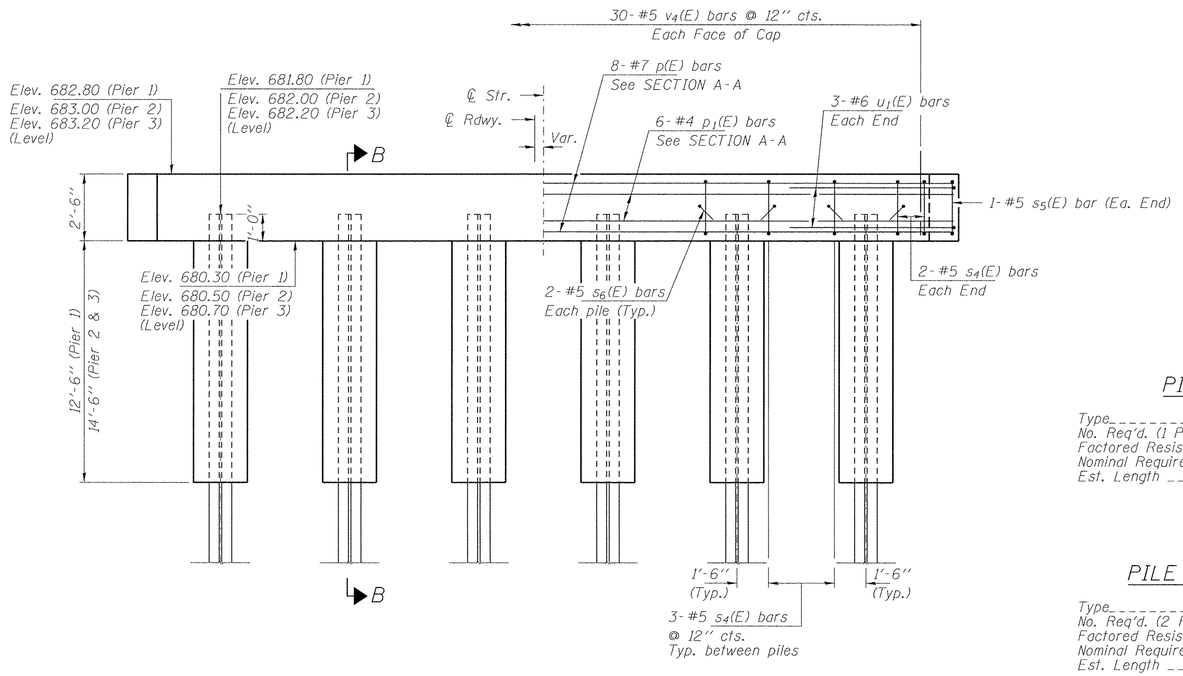
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EAST ABUTMENT
STRUCTURE NO. 045-9972
SHEET NO. 8 OF 14 SHEETS

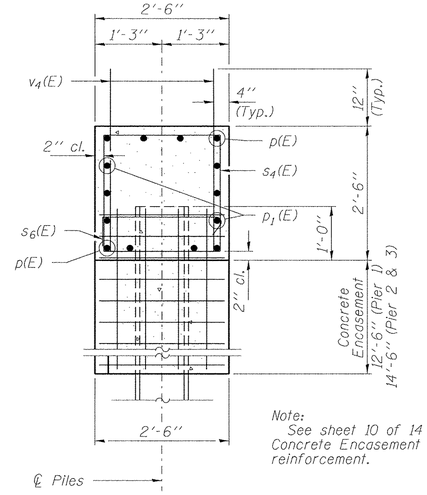
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
199	11-03112-00-BR	KANE	39	19
BIG ROCK TOWNSHIP		CONTRACT NO. 61D84		
	ILLINOIS	FED. AID PROJECT BROS-0089(178)		



PLAN

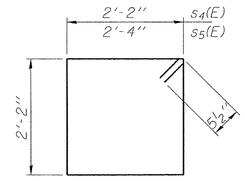


ELEVATION
(Looking East)

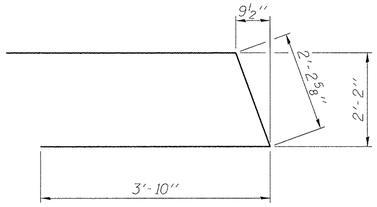


SECTION B-B

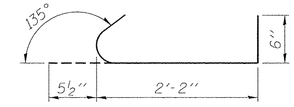
Note:
See sheet 10 of 14 for Concrete Encasement reinforcement.



BARS $s_4(E)$ & $s_5(E)$



BAR $u_1(E)$



BAR $s_6(E)$

PILE DATA - PIER 1

Type _____ Steel HP14x73
No. Req'd. (1 Pier) _____ 6
Factored Resistance Available (Rf) __ 158 Kips/Pile
Nominal Required Bearing (Rn) _____ 288 Kips/Pile
Est. Length _____ 47 Ft/Pile

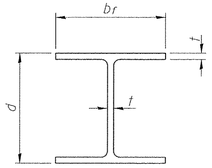
PILE DATA - PIERS 2 & 3

Type _____ Steel HP14x73
No. Req'd. (2 Piers) _____ *12
Factored Resistance Available (Rf) __ 172 Kips/Pile
Nominal Required Bearing (Rn) _____ 322 Kips/Pile
Est. Length _____ 67 Ft/Pile

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

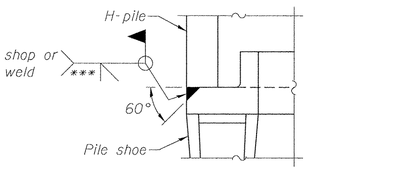
BILL OF MATERIAL - 3 PIERS

BAR	NO.	SIZE	LENGTH	SHAPE
p(E)	24	#7	29'-6"	
$p_1(E)$	18	#4	29'-6"	
$s_4(E)$	45	#5	9'-7"	
$s_5(E)$	6	#5	9'-11"	
$s_6(E)$	36	#5	3'-2"	
$u_1(E)$	18	#6	9'-11"	
$v_4(E)$	180	#5	3'-4"	
Concrete Structures			Cu. Yd.	20.6
Concrete Encasement			Cu. Yd.	45.3
Reinforcement Bars, Epoxy Coated			Pound	3,330
Furnishing Steel Piles HP14x73			Foot	1,019
Test Pile Steel HP14x73			Each	1
Driving Piles			Foot	1,019



STEEL PILE TABLE

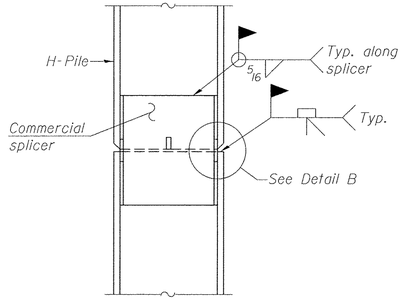
Designation	Depth d	Flange width b_f	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	11/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	11/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	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"



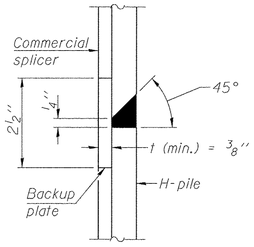
ELEVATION

DETAIL A

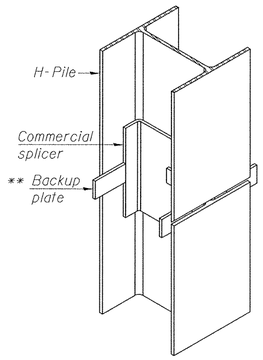
H-PILE SHOE ATTACHMENT



ELEVATION

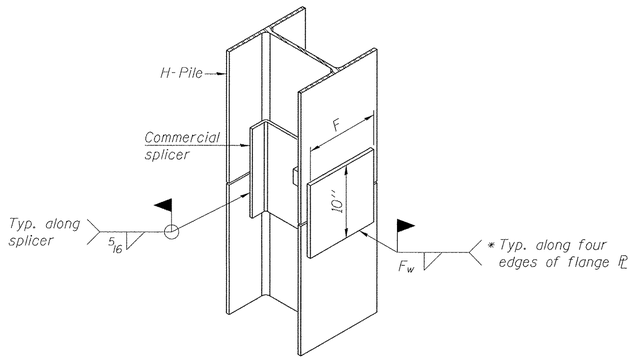


DETAIL "B"

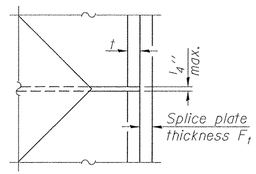


ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE



ISOMETRIC VIEW



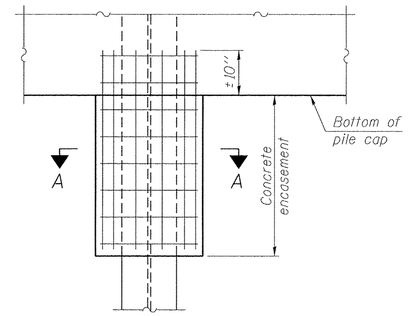
DETAIL D

WELDED COMMERCIAL SPLICE ALTERNATE

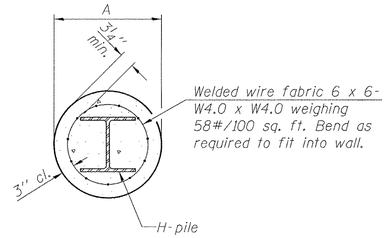
* Interrupt welds 1/4" from end of web and/or each flange.

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

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



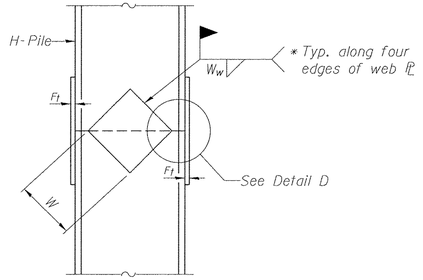
ELEVATION



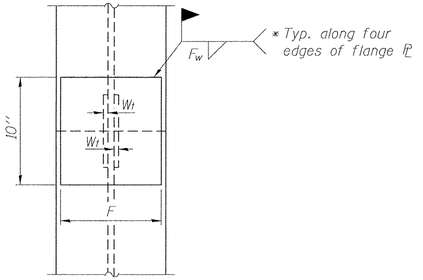
Note:
Forms for encasement may be omitted when soil conditions permit.

SECTION A-A

PILE ENCASEMENT



ELEVATION



END VIEW

WELDED PLATE FIELD SPLICE

Designation	F	F_f	F_w	W	W_f	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"

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

F-HP 1-27-12

FILE NAME = 140276-sht-bridge4span.DGN	USER NAME =	DESIGNED - L.A.P.	REVISED
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		CHECKED - A.E.U.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	DRAWN - D.A.B.	REVISED -
	PLOT DATE = 2/22/2017	CHECKED - A.E.U.	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS
STRUCTURE NO. 045-9972
SHEET NO. 10 OF 14 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
199	11-03112-00-BR	KANE	39	21
BIG ROCK TOWNSHIP		CONTRACT NO. 61D84		
	ILLINOIS	FED. AID PROJECT BROS-0089(178)		

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Peru, IL 61354

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BORING LOG

Sheet 1 of 4

Client: Hampton, Lenzini & Renwick, Inc.
Project Name: Section 11-03112-00-BR Price Road
Project Site: Kane County, Illinois

Boring No. B-1
Surface Elev. ***685.20***
Auger Depth 76' Rotary Depth NA
Start Date 12/06/14 Finish Date 12/06/14

Location: 5' Left of Station 11+62

DRILLED BY: Randy Safranski, Diedrich D-120

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
685.20											
684.20			1								
683.20			2								
682.20	Medium Brown And Gray Gravely Clay (Fill)		3	1	SS	---	14	---	---		
681.20			4								
680.20			5	2	SS	---	16	---	---		
679.20			6								
678.20			7								
677.20			8	3	SS	1.1	5	B	23		
676.20	Stiff Black Clay		9								
675.20			10								
674.20			11	4	SS	1.0	4	B	25		
673.20			12								
672.20	Medium Brown Fine Sand And Gravel		13	5	SS	---	14	---	---		
671.20			14								
670.20			15								
669.20			16	6	SS	2.3	22	B	14		
668.20	Very Stiff Brownish Gray Clay Till		17								
667.20			18	7	SS	2.3	12	B	14		
666.20			19								
665.20			20								
				8	SS	2.6	14	B	13		

Groundwater Data: Static water level at time of drilling - Elevation 673.0
Comments:

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BORING LOG

Sheet 2 of 4

Client: Hampton, Lenzini & Renwick, Inc.
Project Name: Section 11-03112-00-BR Price Road
Project Site: Kane County, Illinois

Boring No. B-1
Surface Elev. ***685.20***
Auger Depth 76' Rotary Depth NA
Start Date 12/06/14 Finish Date 12/06/14

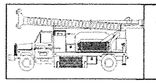
Location: 5' Left of Station 11+62

DRILLED BY: Randy Safranski, Diedrich D-120

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
664.20											
663.20			22								
662.20			23	9	SS	---	26	---	---		
661.20			24								
660.20	Medium To Dense Brown Fine Sand		25								
659.20			26	10	SS	---	23	---	---		
658.20			27								
657.20			28	11	SS	---	31	---	---		
656.20			29								
655.20			30								
654.20			31	12	SS	---	47	---	12		
653.20			32								
652.20	Dense To Very Dense Brown Coarse Sand And Gravel		33								
651.20			34								
650.20			35								
649.20			36	13	SS	---	62	---	11		
648.20			37								
647.20			38								
646.20	Hard Gray Silty Loam Till		39								
645.20			40								
644.20			41	14	SS	4.3	27	S	10		

Groundwater Data: Static water level at time of drilling - Elevation 673.0
Comments:

BORING B-1
(Sheet 1 of 2)



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BORING LOG

Sheet 3 of 4

Client: Hampton, Lenzini & Renwick, Inc.
Project Name: Section 11-03112-00-BR Price Road
Project Site: Kane County, Illinois

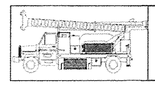
Boring No. B-1
Surface Elev. ***685.20***
Auger Depth 76' Rotary Depth NA
Start Date 12/06/14 Finish Date 12/06/14

Location: 5' Left of Station 11+62

DRILLED BY: Randy Safranski, Diedrich D-120

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
643.20											
642.20			43								
641.20			44								
640.20			45								
				15	SS	---	38	---	---		
639.20			46								
638.20			47								
637.20			48								
636.20			49								
635.20			50								
				16	SS	---	33	---	---		
634.20	Dense Gray Fine Sand To Coarse Gravel		51								
633.20			52								
632.20			53								
631.20			54								
630.20			55								
				17	SS	---	39	---	---		
629.20			56								
628.20			57								
627.20			58								
626.20			59								
625.20			60								
				18	SS	---	42	---	---		
624.20			61								
623.20			62								

Groundwater Data: Static water level at time of drilling - Elevation 673.0
Comments:



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BORING LOG

Sheet 4 of 4

Client: Hampton, Lenzini & Renwick, Inc.
Project Name: Section 11-03112-00-BR Price Road
Project Site: Kane County, Illinois

Boring No. B-1
Surface Elev. ***685.20***
Auger Depth 76' Rotary Depth NA
Start Date 12/06/14 Finish Date 12/06/14

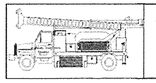
Location: 5' Left of Station 11+62

DRILLED BY: Randy Safranski, Diedrich D-120

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
622.20											
621.20			64								
620.20			65								
				19	SS	2.7	20	B	14		
619.20			66								
618.20			67								
617.20			68								
616.20			69								
615.20	Very Stiff Brownish Gray Clay Till		70								
				20	SS	3.2	22	B	15		
614.20			71								
613.20			72								
612.20			73								
611.20			74								
610.20			75								
				21	SS	2.6	18	B	13		
609.20			76								
608.20	Boring Terminated		77								
607.20			78								
606.20			79								
605.20			80								
604.20			81								
603.20			82								
602.20			83								

Groundwater Data: Static water level at time of drilling - Elevation 673.0
Comments:

BORING B-1
(Sheet 2 of 2)



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BORING LOG

Sheet 1 of 4

Client: Hampton, Lenzini & Renwick, Inc.
Project Name: Section 11-03112-00-BR Price Road
Project Site: Kane County, Illinois

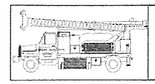
Boring No. B-2
Surface Elev. ***684.50***
Auger Depth 76' Rotary Depth NA
Start Date 12/06/14 Finish Date 12/06/14

Location: 6' Right of Station 10+30

DRILLED BY: Randy Safranski, Diedrich D-120

(DEPTH) ELEV. 684.50	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
683.50			1								
682.50			2								
681.50	Stiff To Very Stiff Brownish Gray Clay (Fill)		3	1	SS	1.8	10	B	18		
680.50			4								
679.50			5								
678.50			6	2	SS	2.1	12	B	16		
677.50			7								
676.50	Stiff Black Clay		8	3	SS	1.3	6	B	21		
675.50			9								
674.50			10								
673.50			11	4	SS	1.0	5	B	24		
672.50			12								
671.50	Medium Brown Gravely Clay		13	5	SS	---	17	---	---		
670.50			14								
669.50			15								
668.50			16	6	SS	2.5	13	B	13		
667.50			17								
666.50	Very Stiff Brownish Gray Clay Till		18	7	SS	2.2	12	B	15		
665.50			19								
664.50			20								
				8	SS	2.1	12	B	15		

Groundwater Data: Static water level at time of drilling - Elevation 673.0
Comments:



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BORING LOG

Sheet 2 of 4

Client: Hampton, Lenzini & Renwick, Inc.
Project Name: Section 11-03112-00-BR Price Road
Project Site: Kane County, Illinois

Boring No. B-2
Surface Elev. ***684.50***
Auger Depth 76' Rotary Depth NA
Start Date 12/06/14 Finish Date 12/06/14

Location: 6' Right of Station 10+30

DRILLED BY: Randy Safranski, Diedrich D-120

(DEPTH) ELEV. 663.50	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
662.50	Medium Brown Fine Sand		22								
661.50			23	9	SS	---	27	---	---		
660.50			24								
659.50			25								
658.50			26	10	SS	---	32	---	---		
657.50			27								
656.50	Dense Brown Fine To Coarse Sand With Occasional Coarse Gravel		28	11	SS	---	35	---	---		
655.50			29								
654.50			30	12	SS	---	38	---	---		
653.50			31								
652.50			32								
651.50			33								
650.50			34								
649.50			35	13	SS	4.2	26	S	12		
648.50	Hand Gray Silty Loam		36								
647.50			37								
646.50			38								
645.50			39								
644.50			40	14	SS	4.6	29	5	10		
643.50			41								

Groundwater Data: Static water level at time of drilling - Elevation 673.0
Comments:

BORING B-2
(Sheet 1 of 2)

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BORING LOG

Sheet 3 of 4

Client: Hampton, Lenzini & Renwick, Inc.
Project Name: Section 11-03112-00-BR Price Road
Project Site: Kane County, Illinois

Boring No. B-2
Surface Elev. ***684.50***
Auger Depth 76' Rotary Depth NA
Start Date 12/06/14 Finish Date 12/06/14

Location: 6' Right of Station 10+30

DRILLED BY: Randy Safranski, Diedrich D-120

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
642.50											
641.50			43								
640.50			44								
639.50			45	15	SS	---	43	---	---		
638.50			46								
637.50			47								
636.50			48								
635.50	Dense Gray Fine Sand		49								
634.50			50	16	SS	---	32	---	---		
633.50			51								
632.50			52								
631.50			53								
630.50			54								
629.50			55								
628.50			56	17	SS	---	33	---	---		
627.50			57								
626.50			58								
625.50			59								
624.50	Hard Gray Clay Till		60								
623.50			61	18	SS	4.7	52	5	10		
622.50			62								

Groundwater Data: Static water level at time of drilling - Elevation 673.0
Comments:

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Fax: 815-223-6659
e-mail: mts37@comcast.net

BORING LOG

Sheet 4 of 4

Client: Hampton, Lenzini & Renwick, Inc.
Project Name: Section 11-03112-00-BR Price Road
Project Site: Kane County, Illinois

Boring No. B-2
Surface Elev. ***684.50***
Auger Depth 76' Rotary Depth NA
Start Date 12/06/14 Finish Date 12/06/14

Location: 6' Right of Station 10+30

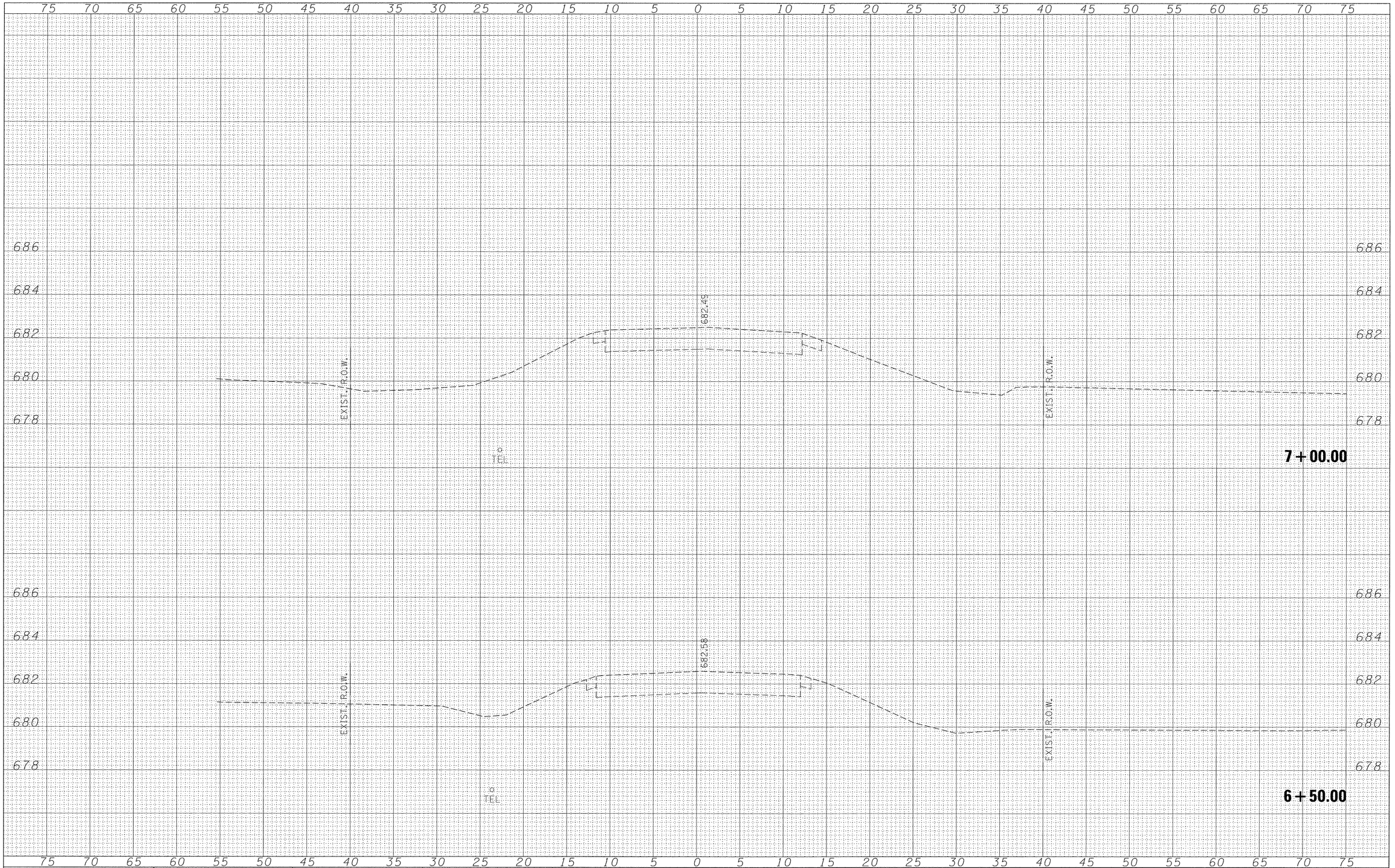
DRILLED BY: Randy Safranski, Diedrich D-120

(DEPTH) ELEV.	DESCRIPTION OF MATERIALS	Graphic Log	Depth in feet	Sample No.	Sample Type	Qu (TSF)	N Value (Blows)	Bulge / Shear	Moisture (%)	Dry Density (PCF)	REMARKS
621.50											
620.50			65	19	SS	3.5	18	B	14		
619.50			66								
618.50			67								
617.50			68								
616.50	Very Stiff Brownish Gray Clay Till		69								
615.50			70								
614.50			71	20	SS	2.9	18	B	12		
613.50			72								
612.50			73								
611.50			74								
610.50			75								
609.50			76	21	SS	2.4	16	B	14		
608.50	Boring Terminated		77								
607.50			78								
606.50			79								
605.50			80								
604.50			81								
603.50			82								
602.50			83								
601.50											

Groundwater Data: Static water level at time of drilling - Elevation 673.0
Comments:

BORING B-2
(Sheet 2 of 2)

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



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	PLOTTED		
NOTE BOOK	TEMPLATE		
	AREAS		
NO.	AREAS CHECKED		

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	PLOT DATE = 2/22/2017	DATE - 02/21/17	REVISED -

HAMPTON, LENZINI AND RENWICK, INC.
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

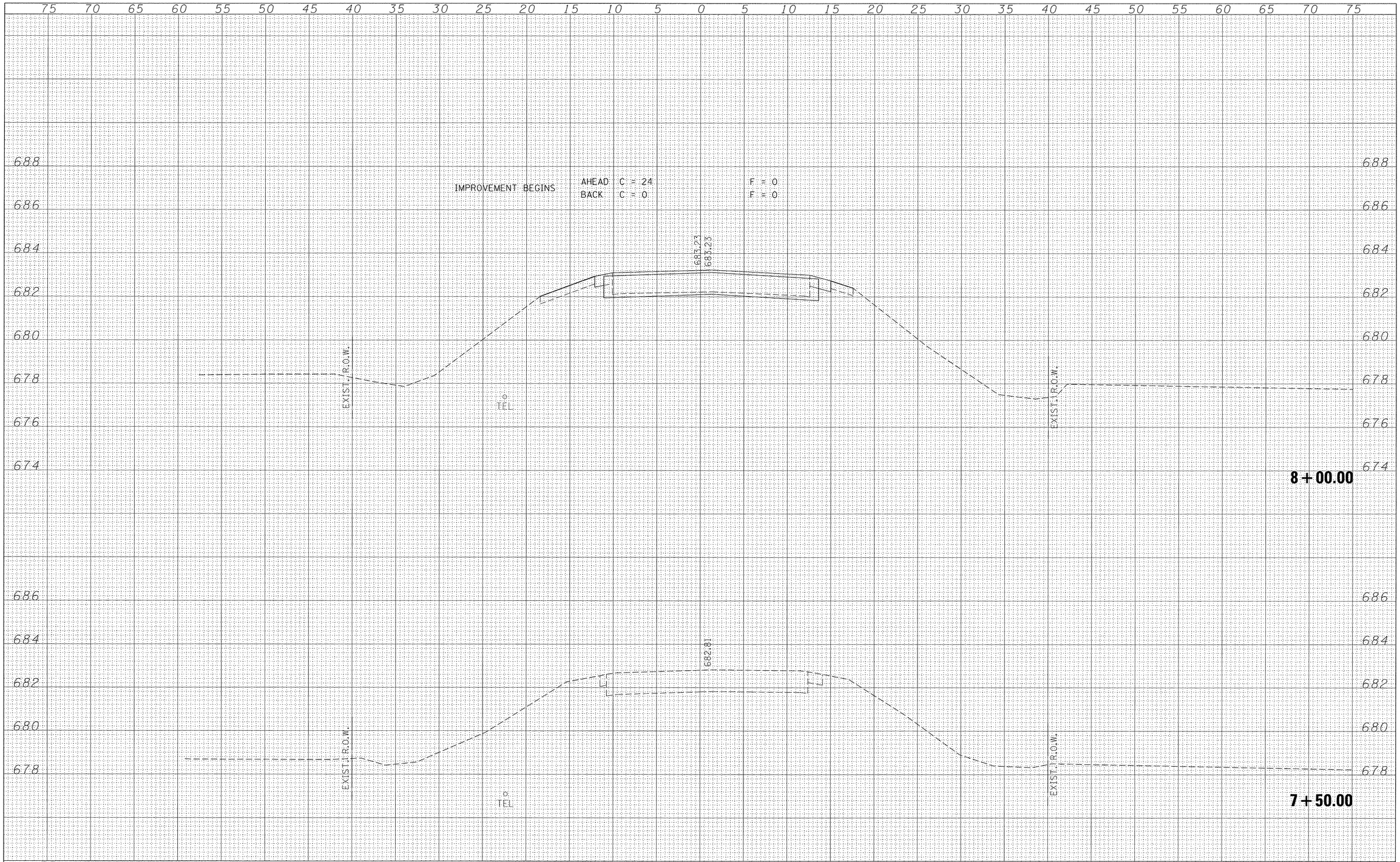
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATION CROSS SECTIONS

SCALE: 5H:2V	SHEET NO. 1 OF 14 SHEETS	STA. 6+50.00	TO STA. 7+00.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
199	11-03112-00-BR	KANE	39	26
BIG ROCK TOWNSHIP		CONTRACT NO. 61D84		
		ILLINOIS FED. AID PROJECT BROS-0089(181)		

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		

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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - T.W.K.	REVISED -
	PLOT SCALE = $SCALE$	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 2/22/2017	DATE - 02/21/17	REVISED -

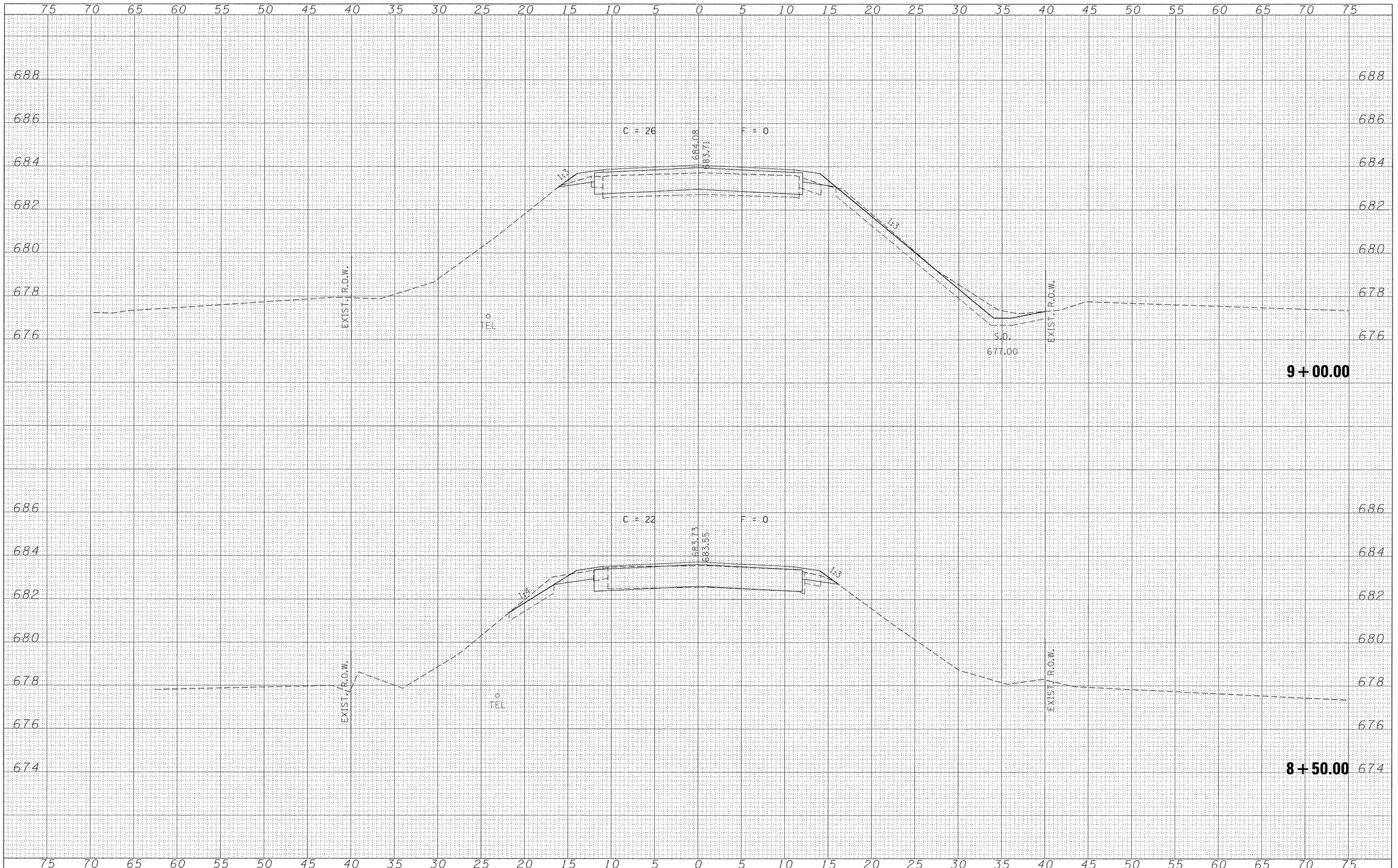
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATION CROSS SECTIONS

SCALE: 5H:2V | SHEET NO. 2 OF 14 SHEETS | STA. 7+50.00 TO STA. 8+00.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
199	11-03112-00-BR	KANE	39	27
BIG ROCK TOWNSHIP		CONTRACT NO. 61D84		
ILLINOIS	FED. AID PROJECT BROS-0089(181)			

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		

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HAMPTON, LENZINI AND RENWICK, INC.
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ILLINOIS PROFESSIONAL DESIGN FIRM
LS / PE / SE CORP. 184.000959

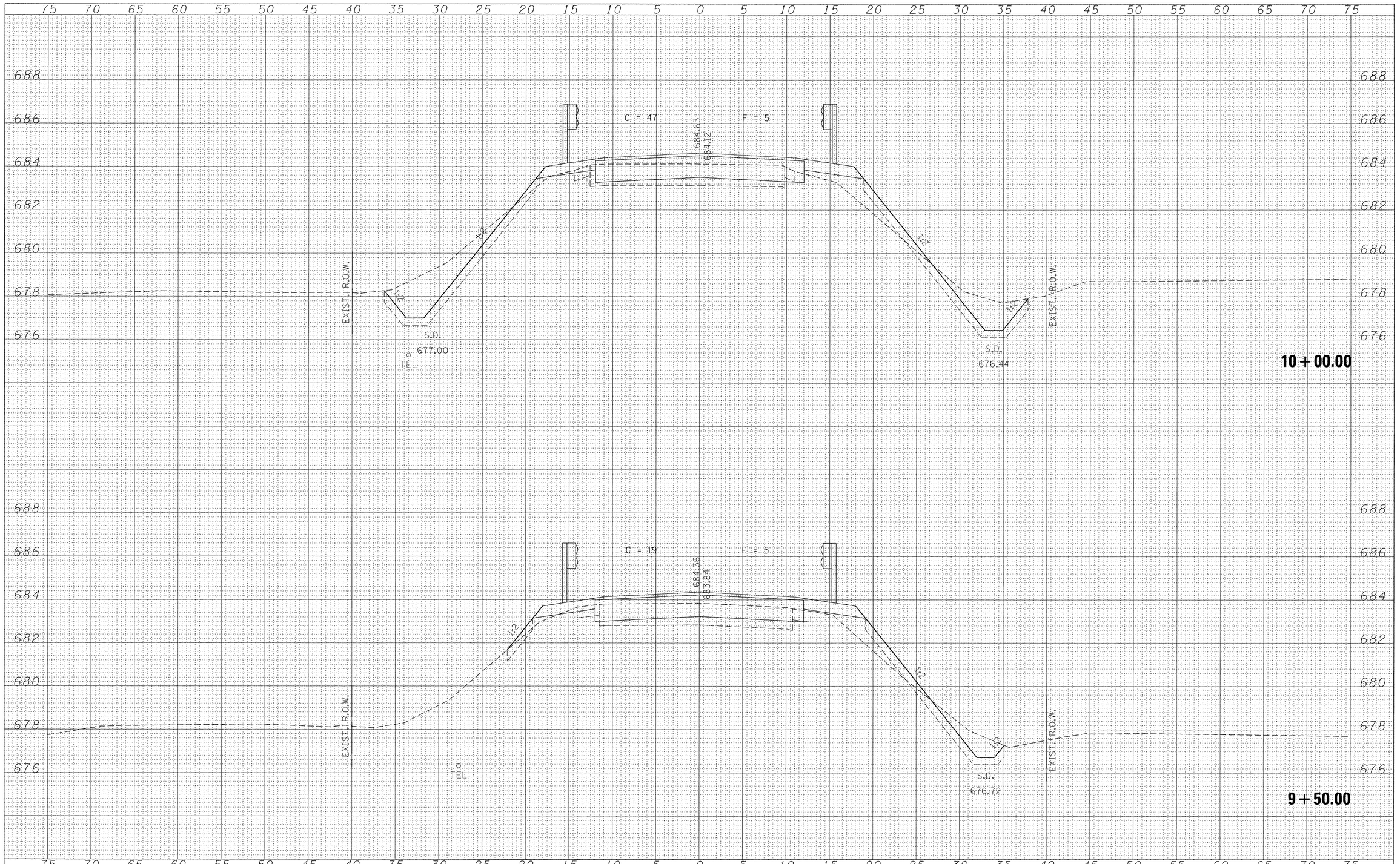
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATION CROSS SECTIONS

SCALE: 5H:2V | SHEET NO. 3 OF 14 SHEETS | STA. 8+50.00 TO STA. 9+00.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
199	11-03112-00-BR	KANE	39	28
BIG ROCK TOWNSHIP		CONTRACT NO. 61D84		
ILLINOIS	FED. AID PROJECT BROS-0089(181)			

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



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NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
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	PLOT DATE = 2/22/2017	DATE - 02/21/17	REVISED -

HAMPTON, LENZINI AND RENWICK, INC.
3085 STEVENSON DRIVE, SUITE 201
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LS / PE / SE CORP. 184.000959

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATION CROSS SECTIONS

SCALE: 5H:2V | SHEET NO. 4 OF 14 SHEETS | STA. 9+50.00 TO STA. 10+00.00

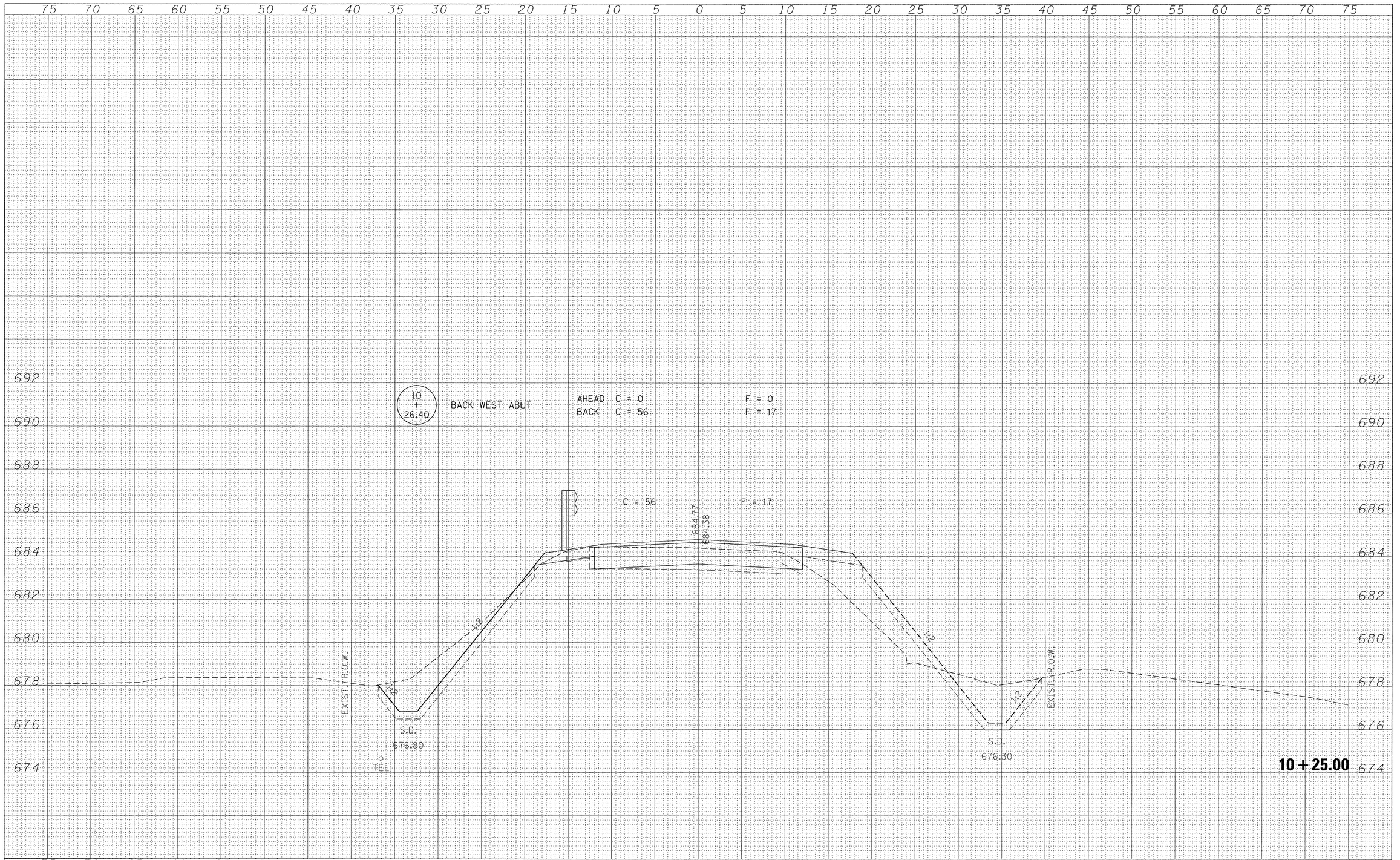
TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
199	11-03112-00-BR	KANE	39	29
BIG ROCK TOWNSHIP		CONTRACT NO. 61D84		
		ILLINOIS	FED. AID PROJECT BROS-0089(181)	

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

	BY	DATE

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

	BY	DATE



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HAMPTON, LENZINI AND RENWICK, INC.
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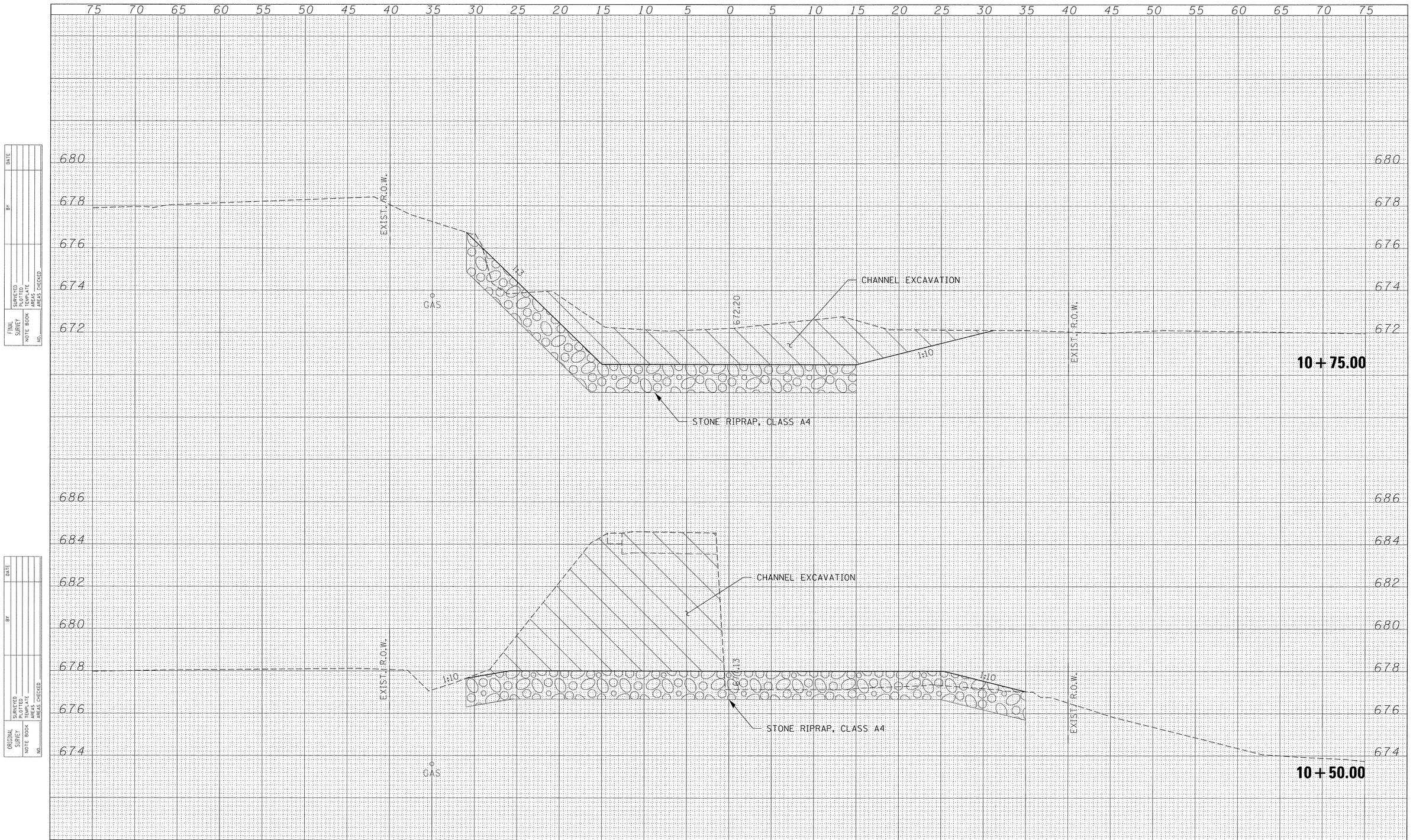
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATION CROSS SECTIONS

SCALE: 5H:2V | SHEET NO. 5 OF 14 SHEETS | STA. 10+25.00 TO STA. 10+25.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
199	11-03112-00-BR	KANE	39	30
BIG ROCK TOWNSHIP		CONTRACT NO. 61D84		
ILLINOIS	FED. AID PROJECT BROS-0089(181)			



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

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

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	PLOT DATE = 2/22/2017	DATE - 02/21/17	REVISED -

HAMPTON, LENZINI AND RENWICK, INC.
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SPRINGFIELD, ILLINOIS 62703
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

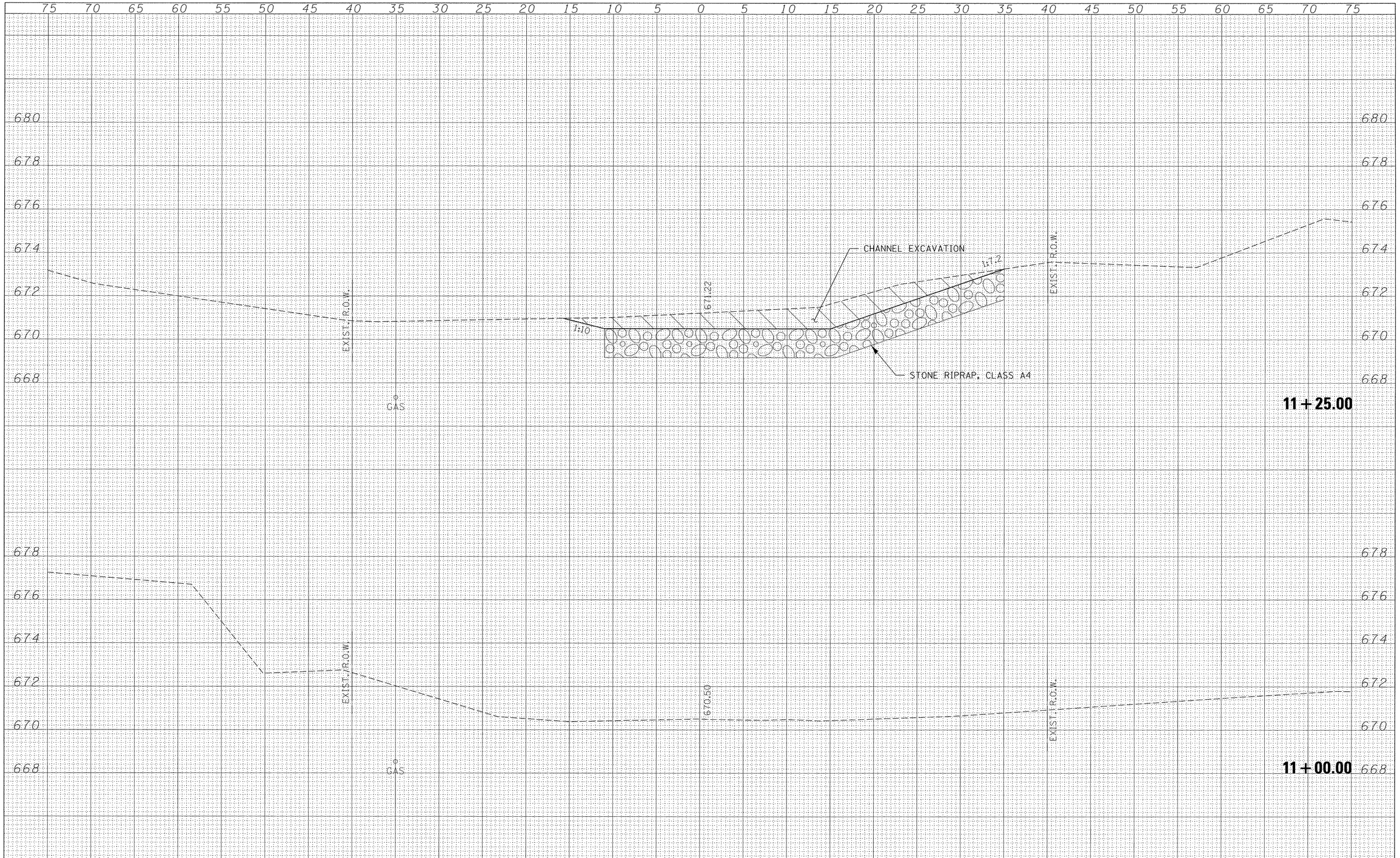
STATION CROSS SECTIONS

SCALE: 5H:2V | SHEET NO. 6 OF 14 SHEETS | STA. 10+50.00 TO STA. 10+75.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
199	11-03112-00-BR	KANE	39	31
BIG ROCK TOWNSHIP		CONTRACT NO. 61D84		
ILLINOIS	FED. AID PROJECT BROS-0089(181)			

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

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



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATION CROSS SECTIONS

SCALE: 5H:2V | SHEET NO. 7 OF 14 SHEETS | STA. 11+00.00 TO STA. 11+25.00

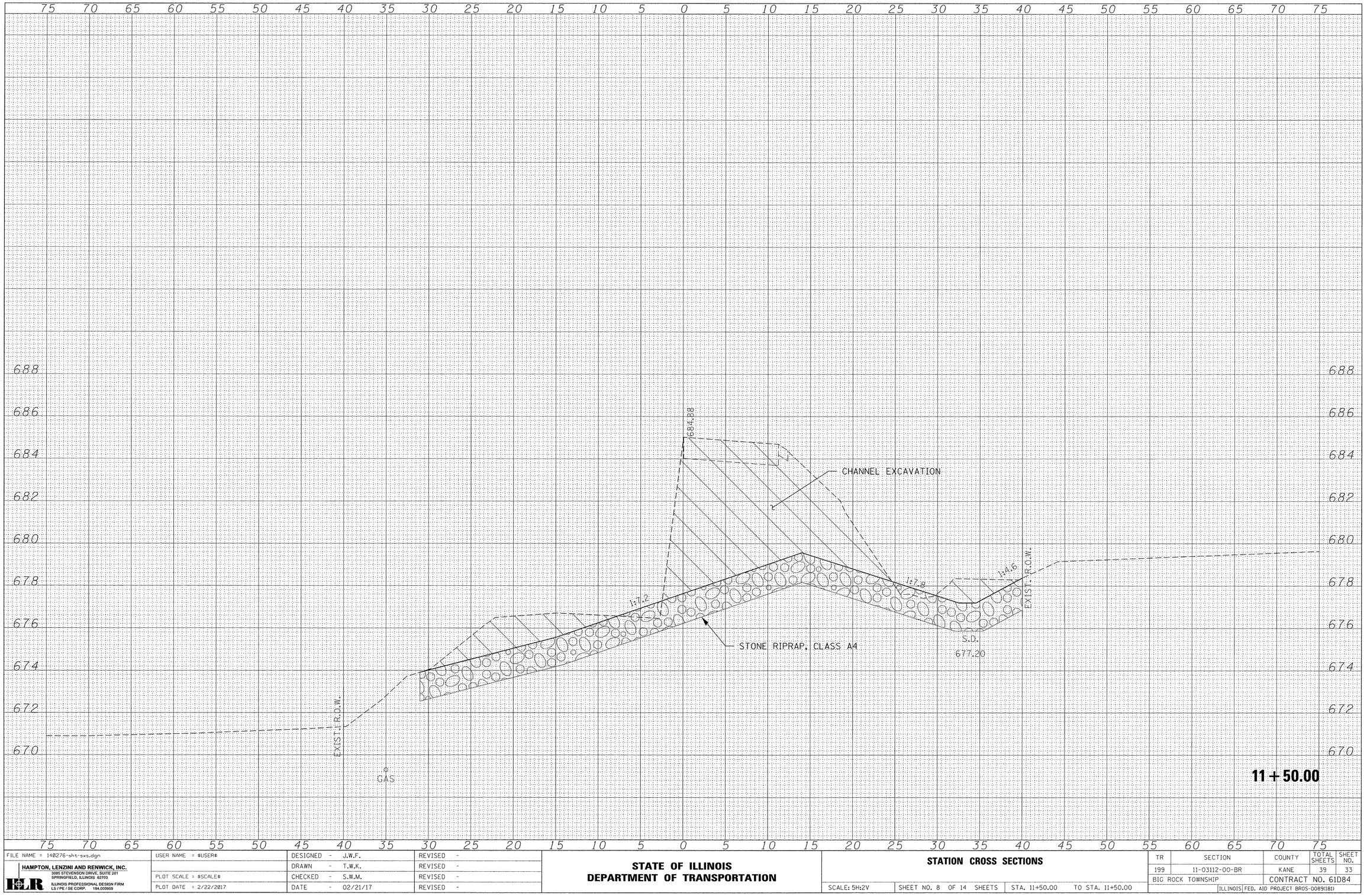
TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
199	11-03112-00-BR	KANE	39	32
BIG ROCK TOWNSHIP		CONTRACT NO. 61D84		
ILLINOIS	FED. AID PROJECT BROS-0089(181)			

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

BY	DATE

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

BY	DATE



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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		DRAWN - T.W.K.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = $SCALE$	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 2/22/2017	DATE - 02/21/17	REVISED -

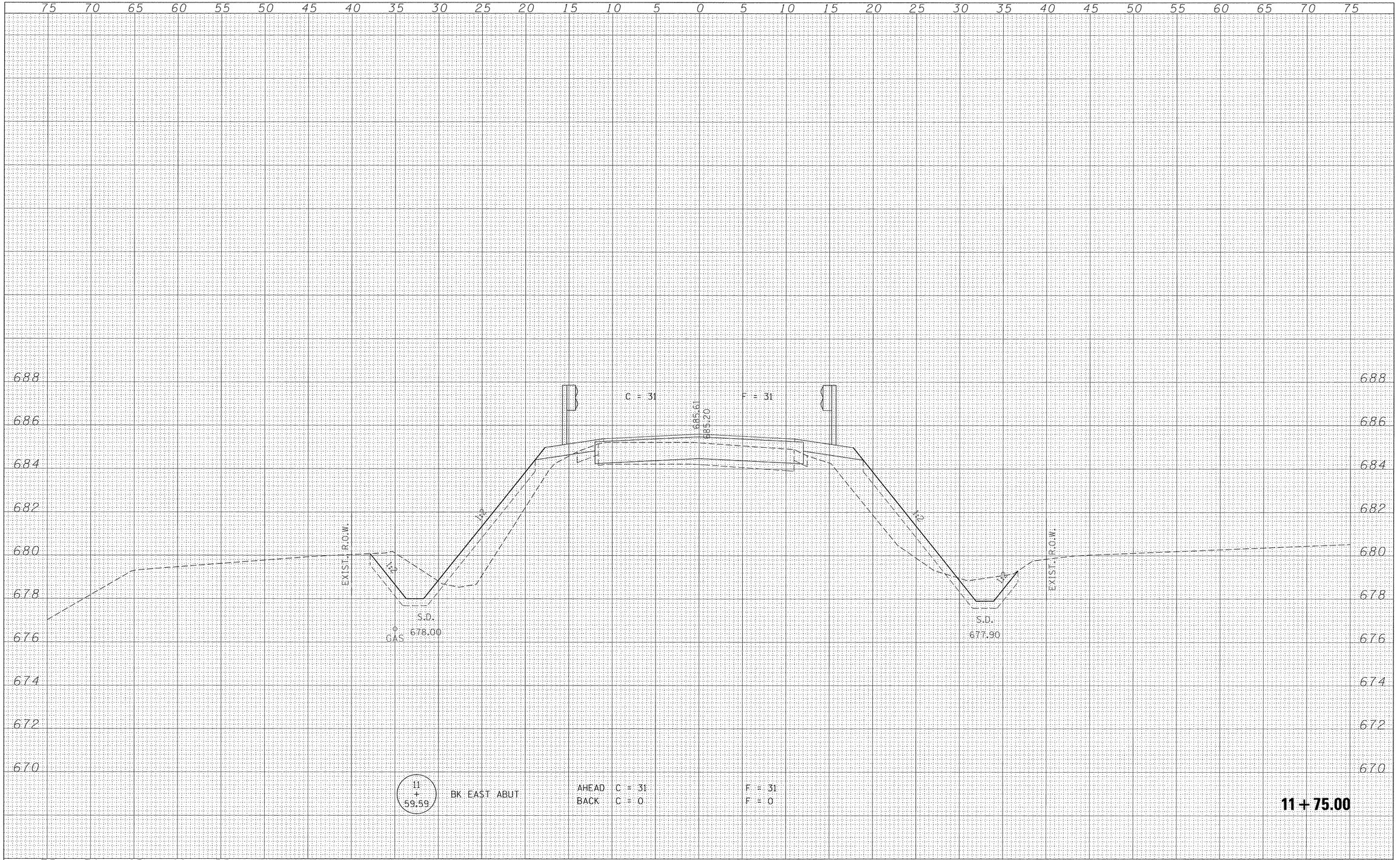
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATION CROSS SECTIONS

SCALE: 5H:2V | SHEET NO. 8 OF 14 SHEETS | STA. 11+50.00 TO STA. 11+50.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
199	11-03112-00-BR	KANE	39	33
BIG ROCK TOWNSHIP		CONTRACT NO. 61D84		
ILLINOIS	FED. AID PROJECT BROS-0089(181)			

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		

11 + 59.59 BK EAST ABUT

AHEAD C = 3% F = 3%
BACK C = 0 F = 0

11 + 75.00

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATION CROSS SECTIONS

SCALE: 5H:2V | SHEET NO. 9 OF 14 SHEETS | STA. 11+75.00 TO STA. 11+75.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
199	11-03112-00-BR	KANE	39	34
BIG ROCK TOWNSHIP		CONTRACT NO. 61D84		
ILLINOIS	FED. AID PROJECT BROS-0089(181)			

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

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

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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - T.W.K.	REVISED -
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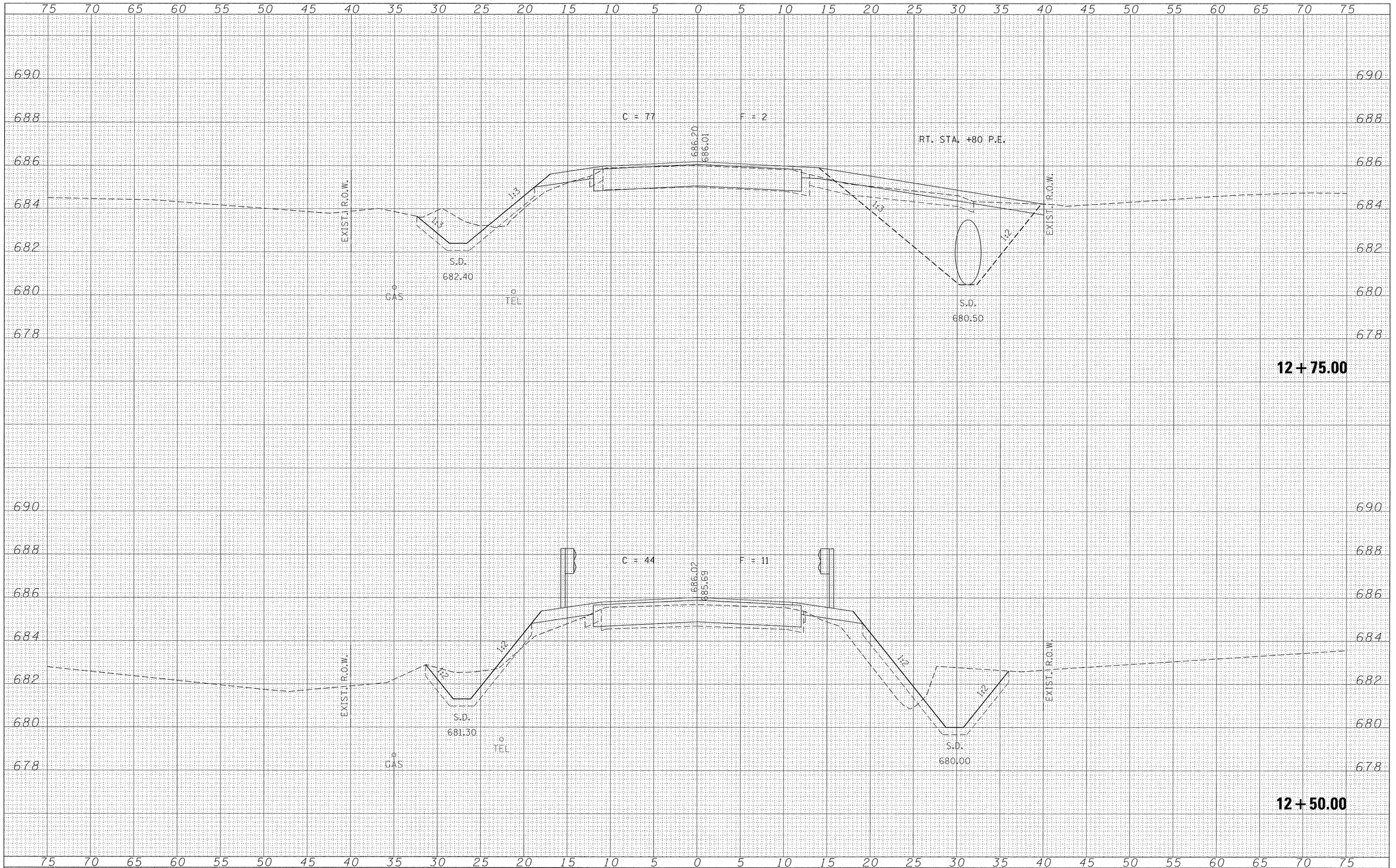
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATION CROSS SECTIONS

SCALE: 5H:2V	SHEET NO. 10 OF 14 SHEETS	STA. 12+00.00	TO STA. 12+00.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
199	11-03112-00-BR	KANE	39	35
BIG ROCK TOWNSHIP		CONTRACT NO. 61D84		
	ILLINOIS	FED. AID PROJECT BROS-0089(181)		

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



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NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
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	AREAS CHECKED		

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	PLOT DATE = 2/22/2017	DATE - 02/21/17	REVISED -

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATION CROSS SECTIONS

SCALE: 5H:2V | SHEET NO. 11 OF 14 SHEETS | STA. 12+50.00 TO STA. 12+75.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
199	11-03112-00-BR	KANE	39	36
BIG ROCK TOWNSHIP		CONTRACT NO. 61D84		
ILLINOIS	FED. AID PROJECT BROS-0089(181)			

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

BY	DATE

ORIGINAL SURVEY	
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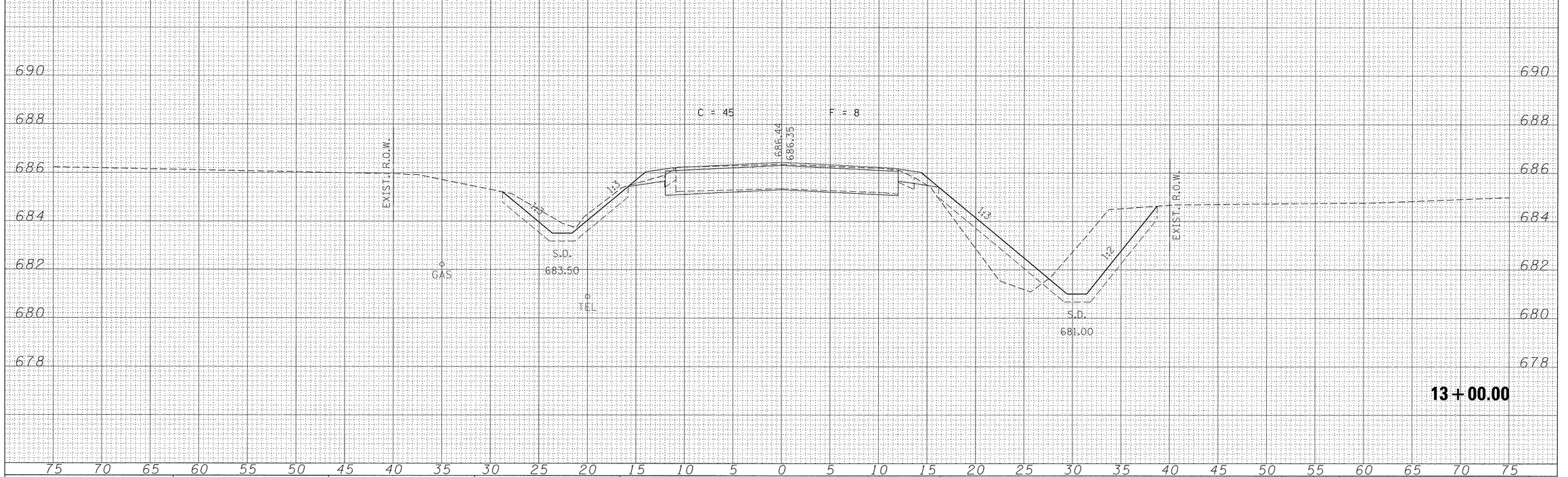
	PLOTTED
NOTE BOOK	TEMPLATE
	AREAS
NO.	AREAS CHECKED

BY	DATE



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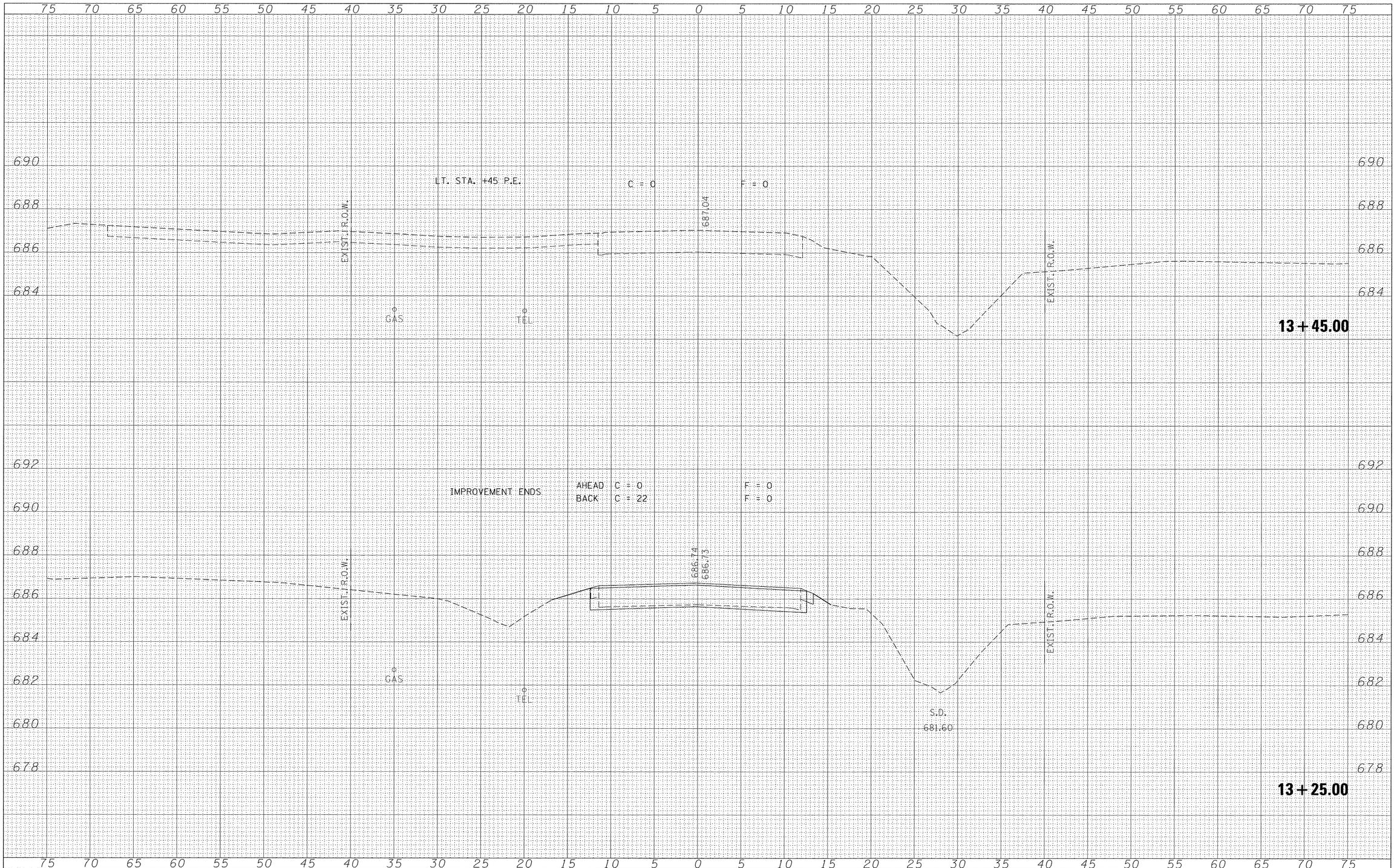
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATION CROSS SECTIONS

SCALE: 5H:2V | SHEET NO. 12 OF 14 SHEETS | STA. 13+00.00 TO STA. 13+00.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
199	11-03112-00-BR	KANE	39	37
BIG ROCK TOWNSHIP		CONTRACT NO. 61D84		
		ILLINOIS	FED. AID PROJECT BROS-0089(181)	

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		

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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - T.W.K.	REVISED -
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	PLOT DATE = 2/22/2017	DATE - 02/21/17	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STATION CROSS SECTIONS

SCALE: 5H:2V | SHEET NO. 13 OF 14 SHEETS | STA. 13+25.00 | TO STA. 13+45.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
199	11-03112-00-BR	KANE	39	38
BIG ROCK TOWNSHIP		CONTRACT NO. 61D84		
ILLINOIS	FED. AID PROJECT BROS-0089(181)			

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

BY	DATE

75 70 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

6.92
6.90
6.88
6.86
6.84

EXIST. R.O.W.

L.T. STA. 13+85 P.E.

687.68

GAS

TEL

EXIST. R.O.W.

13+85.00

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

BY	DATE

6.90
6.88
6.86
6.84

EXIST. R.O.W.

687.12

GAS

TEL

EXIST. R.O.W.

13+50.00

75 70 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

FILE NAME = 140276-sht-sxs.dgn	USER NAME = $USER$	DESIGNED - J.W.F.	REVISED -
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DEPARTMENT OF TRANSPORTATION

STATION CROSS SECTIONS

SCALE: 5H:2V | SHEET NO. 14 OF 14 SHEETS | STA. 13+50.00 TO STA. 13+85.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
199	11-03112-00-BR	KANE	39	39
BIG ROCK TOWNSHIP		CONTRACT NO. 61D84		
ILLINOIS	FED. AID PROJECT BROS-0089(181)			