03-06-2020 LETTING ITEM 178

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SECTION T.R. 12-03130 MOULTRIE 18 69 -00-BR ILLINOIS CONTRACT NO. 95866 FED. ROAD DIST. NO.

INDEX OF SHEETS

DESCRIPTION

COVER SHEET SUMMARY OF QUANTITIES AND GENERAL NOTES

TYPICAL CROSS SECTIONS

PLAN AND PROFILE

5-11. **BRIDGE PLANS**

BORINGS 12.

STATION CROSS SECTIONS 13-18.

HIGHWAY STANDARDS:

000001-07

STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS

280001-07

TEMPORARY EROSION CONTROL SYSTEMS NAME PLATE FOR BRIDGES

515001-04 701901-08

TRAFFIC CONTROL DEVICES

725001-01

OBJECT AND TERMINAL MARKERS

BLR 21-9

TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

IMPROVEMENT ENDS

PROJECT 7QVM(489)

PLANS FOR PROPOSED

SURFACE TRANSPORTATION PROGRAM - BRIDGE

SECTION 12-03130-00-BR

JONATHAN CREEK ROAD DISTRICT

MOULTRIE COUNTY

T.R. 69

PROPOSED STRUCTURE NO. 070-4337

C-97-062-19

UTILITIES

COLES-MOULTRIE ELECTRIC CO-OP 104 DEWITT AVE. EAST, POX BOX 709 MATTOON, IL 61938

CONSOLIDATED COMMUNICATIONS 121 S. 17TH ST. MATTOON, IL. 61938

FUNCTIONAL CLASSIFICATION:

DESIGN SPEED:

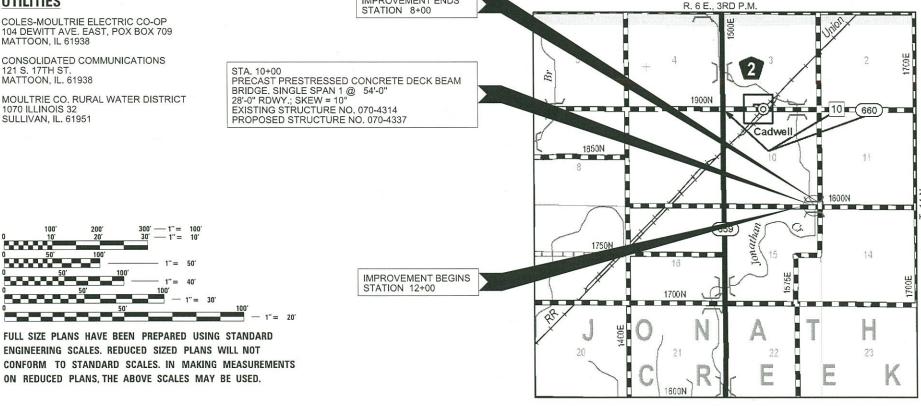
DESIGN TRAFFIC:

MOULTRIE CO. RURAL WATER DISTRICT SULLIVAN, IL. 61951

LOCAL ROAD

30 MPH

125 ADT



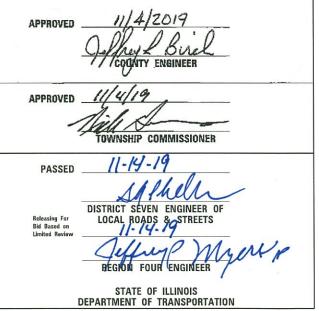
LOCATION MAP

APPROXIMATE SCALE:

NET LENGTH OF SECTION = 400 FEET = 0.076 MILES

WARNING **CALL 811 BEFORE YOU DIG** DIG NO: A1791960







HAMPTON, LENZINI AND RENWICK, INC. RS - STRUCTURAL ENGINEERS - LAND SURVEYORS 3085 STEVENSON DRIVE, SUITE 201

184.000959
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATIO

DATE: 11/01/19

CONTRACT NO. 95866 PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

CODE NO). ITEM	CONSTRUC	
		UNIT	TOTAL
2020010	D EARTH EXCAVATION	CU YD	154
2030010	CHANNEL EXCAVATION	CU YD	100
2040080	FURNISHED EXCAVATION	CU YD	129
2810020	7 STONE RIPRAP, CLASS A4	TON	260
28200200) FILTER FABRIC	SQ YD	275
35100100	AGGREGATE BASE COURSE, TYPE A	TON	484
35101400	AGGREGATE BASE COURSE, TYPE B	TON	88
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	26.4
50400405	PRECAST PRESTRESSED CONCRETE DECK BEAMS (21" DEPTH)	SQFT	1,512
50800205	REINFORCEMENT BARS, EPOXYCOATED	POUND	3,060
50900205	STEEL RAILING, TYPE S1	FOOT	104
51201400	FURNISHING STEEL PILES HP10X42	FOOT	385
51202305	DRIMNG PILES	FOOT	385
51203400	TEST PILE STEEL HP10X42	EACH	1
51500100	NAME PLATES	EACH	1
542D0223	PIPE CULVERTS, CLASS D, TYPE 1 18"	FOOT	336
59300100	CONTROLLED LOW-STRENGTH MATERIAL	. CU YD	104
67100100	MOBILIZATION	LSUM	1
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.3
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	LSUM	1

^{*} SEE SPECIAL PROVISIONS

^{*} SPECIALTY ITEMS

		EARTHWO	RK SCHED	ULE			
	EARTH	CHANNEL	SHRINKAGE	PERCENT	EXCAVATION	EMBANKMENT	EARTHWORK
LOCATION	EXCAVATION	EXCAVATION	FACTOR	USED	ADJUSTED FOR	REQUIRED	BALANCE
STA 8+00 TO STA 9+73.59 STA 9+73.59 TO STA 10+26.41					SHRINKAGE		
	CU.YD.	CU.YD.			CU.YD.	CU.YD.	CU.YD.
TR 69							
STA 8+00 TO STA 9+73.59	80		25.00%	100.00%	60	117	-57
STA 9+73.59 TO STA 10+26.41		100	25.00%	70,00%	53		53
STA 10+26.41 TO STA 12+00	74	***************************************	25.00%	100.00%	55	106	-51
ENTRANCE EMBANKMENT						74	-74
TOTAL	154	100			168	297	-129
USE	154	100					129
	······································	***************************************	***************************************		FURNISHED 129 CU YDS	3	

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, 2020; 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) ALL CLEARING, GRUBBING, FENCE REMOVAL, PAVEMENT REMOVAL, AND REMOVAL OF EXIST ING DRANAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. ALL BITUMINOUS MATERIAL SHALL BE REMOVED AND PROPERLY DISPOSED OF BY THE CONTRACTOR IN A METHOD APPROVED BY THE ENGINEER. REMOVAL AND DISPOSAL OF BITUMINOUS MATERIAL SHALL BE INCLUDED INCLUDED IN THE COST OF EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 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) ANYREFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARD OF THE DEPARTMENT.
- 5) THE LOCATION ON THE PLANS OF EXISTING DRANAGE STRUCTURES, TELEPHONE LINES, ELECTRIC LINES, WATER SERVICE 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 LOCATION FROM THE INDIVIDUAL UTILITY COMPANIES AND BY FIELD INSPECTION.
- 6) THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING CONSTRUCTION OF THE PROJECT.
- 7) THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES

AGGREGATE BASE COURSE

STONE RIPRAP, CLASS A4

COVER/SEAL COAT AGGREGATE

BITUMINOUS MATERIALS (PRIME COAT)

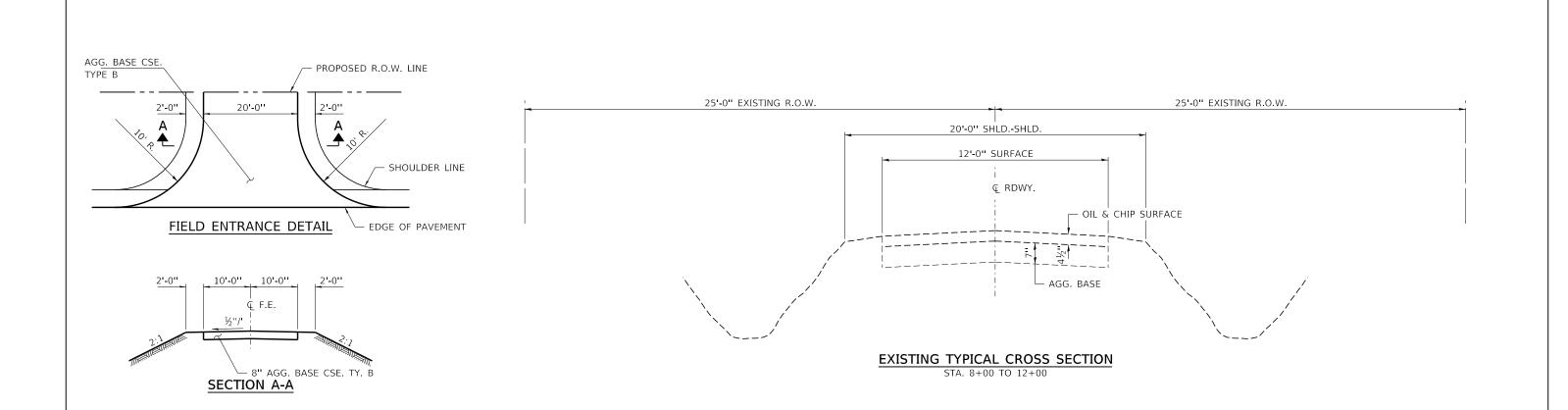
BITUMINOUS MATERIALS (COVER AND SEAL COATS)

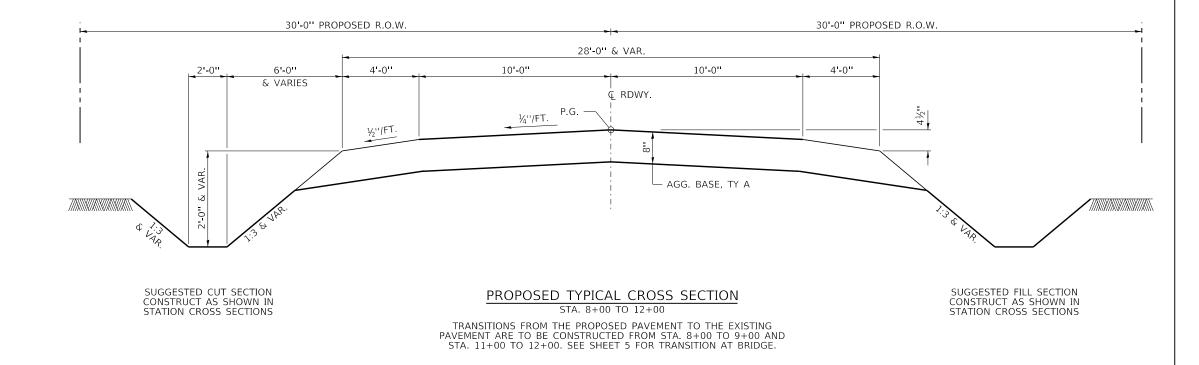
0.30 LB/SQ FT

- 8) THE FINAL SURFACE OF ALL EMBANKMENT AREAS SHALL BE SEEDED. THE TOP 4 INCHES OF THE SEEDED AREAS SHALL BE TOPSOIL SUBJECT TO THE APPROVAL OF THE ENGINEER. THE COST OF SHAPING THE SLOPES AND PROVIDING TOP SOIL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- 9) THE AREATO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAYOR AS DIRECTED BYTHE ENGINEER. SEEDING, CLASS 2 (SPECIAL) = 0.3 ACRES
- 10) ALL WASTE MATERIAL FROM EXCAVATIONS SHALL BE DISPOSED OF BYTHE CONTRACTOR. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 11) COMMITMENTS: NONE

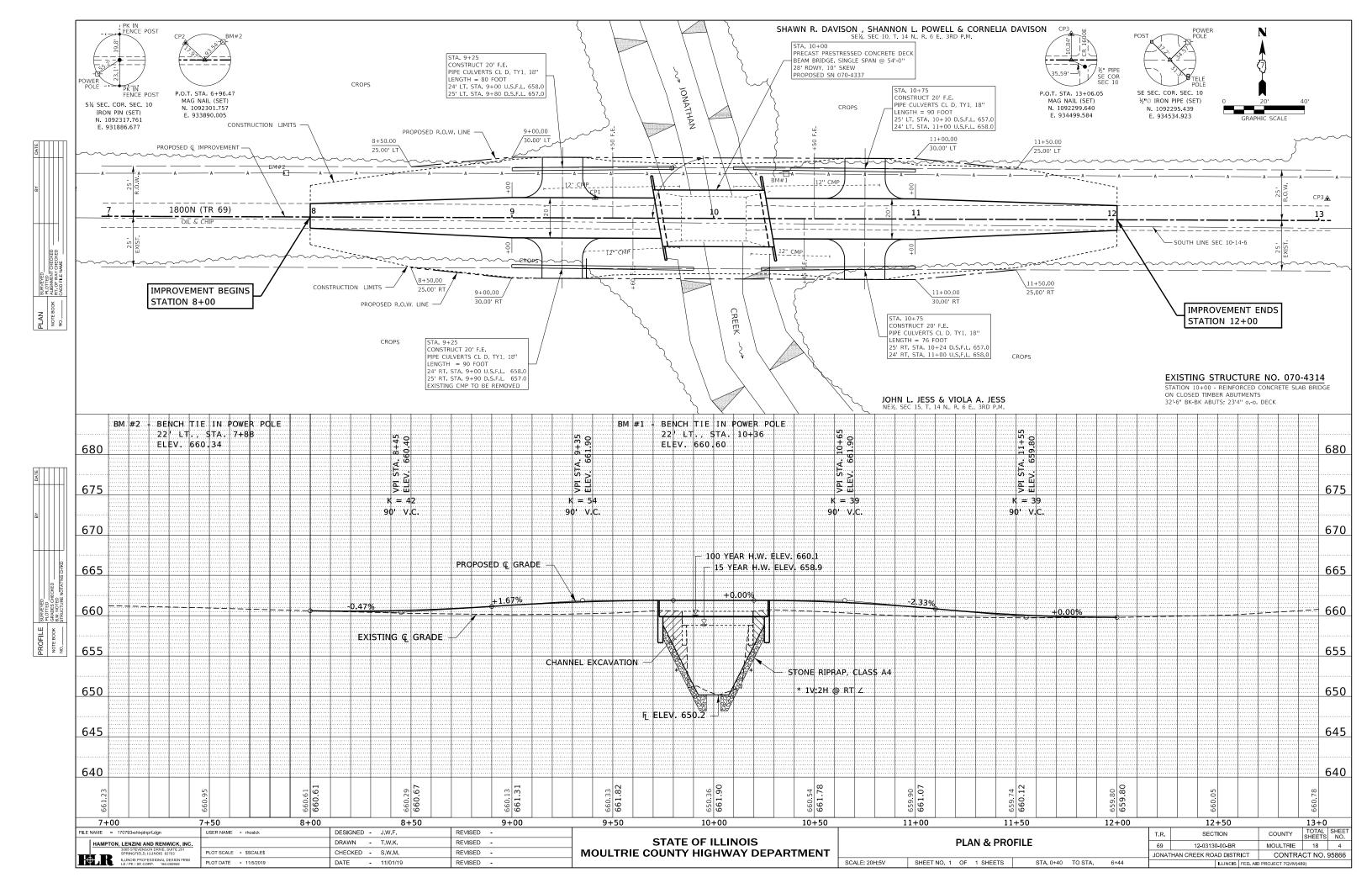
F	ROADWAY SCHEDULE		
	AGGREGATE	AGGREGATE	CONTROLLED
	BASE COURSE	BASE COURSE	LOW-STRENGTH
LOCATION	TYPE A	TYPE B	MATERIAL
LOOAHON			
	35100100	35101500	59300100
	TON	TON	TON
TR 69			
STA 8+00 TO STA 9+73.59	242		52
STA 9+73.59 TO STA 10+26.41			
STA 10+26.41 TO STA 12+00	242		52
ENTRANCES		88	<u> </u>
TOTAL	484	88	104

FILE NAME = 170793-sht-summary.dgn	USER NAME = rhosick	DESIGNED - J.W.F.	REVISED -						T.R.	SECTION	COUNTY	TOTAL	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - M.M.P.	REVISED -	STATE OF ILLINOIS	SUM	MARY OF QUANTITIES A	ND GENERAL	NOTES	69	12-03130-00-BR	MOULTRIE	18	2
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -	MOULTRIE COUNTY HIGHWAY DEPARTMENT					JONATHAN	CREEK ROAD DISTRICT	CONTRACT	NO. 958	66
ILLINOIS PROFESSIONAL DESIGN FIRM	PLOT DATE = 11/5/2019	DATE 11/01/19	REVISED ~		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		ILLINOIS FED. AII	PROJECT 7QVM	489)	





FILE NAME = 170793-sht-typsections.dgn USER NAME =	hosick DESIGNED - J.W.F.	REVISED -	OTATE OF HAINOID		TYPICAL CROSS SECTIONS		T.R.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.	
HAMPTON, LENZINI AND RENWICK, INC.	DRAWN - M.M.P.	REVISED -	STATE OF ILLINOIS		TYPICAL CROSS SEC	CHONS		69	12-03130-00-BR	MOULTRIE	18 3
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 PLOT SCALE =	SSCALES CHECKED - S.W.M.	REVISED -	MOULTRIE COUNTY HIGHWAY DEPARTMENT					JONATHAN	N CREEK ROAD DISTRICT	CONTRACT	NO. 95866
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000859 PLOT DATE =	11/5/2019 DATE - 11/01/19	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		ILLINOIS FED. AID	PROJECT 7QVM(489)	<i>a</i>)



EXISTING STRUCTURE NO. 070-4314: Sta. 10+00 - Reinforced concrete slab bridge on closed timber abutments. 32.5' bk.-bk. Abuts; 23.3' o.-o. deck.

Structure closed to traffic during construction.

DESIGN SPECIFICATIONS

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

2017 AASHTO LRFD Bridge Design

Specifications, 8th Edition with

LOADING HL-93

FIELD UNITS

f'c = 6,000 psi

f'ci = 5,000' psi

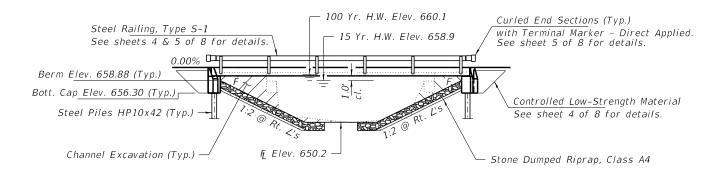
DESIGN STRESSES

PRECAST PRESTRESSED UNITS

 $fpu = 270,000 \text{ psi } (\frac{1}{2}\text{"}\emptyset \text{ low lax. strands})$

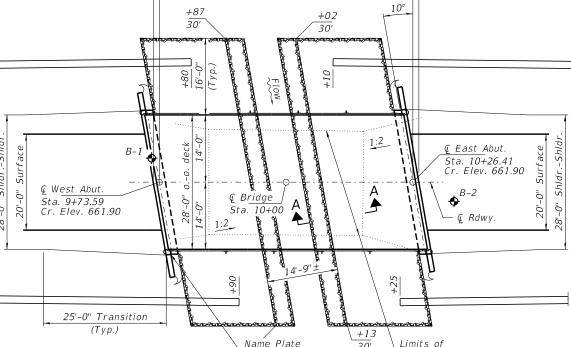
f'c = 3,500 psi fy = 60,000 psi (Reinf.)

No Salvage



ELEVATION

55'-41/4" Bk. - Bk. Abuts 1'-31/4" 52'-9¾" Q - Q Piles 1'-31/4" 10° +87 +02 30'



See sheet 6 of 8

WATERWAY INFORMATION

PLAN

for details.

Design Spectral Acceleration at 1.0 sec. $(S_{D1}) = 0.116g$ Design Spectral Acceleration at 0.2 sec. $(S_{D5}) = 0.239g$

30'

Existing Overtopping Elev. 659.7 @ Sta. 11+50 Proposed Overtopping Elev. 659.8 @ Sta. 12+00

330 660.08 0.36 0.11 660.44 660.19

15 | 1140 | 220 | 280 | 658.85 | 0.34 | 0.02 | 659.19 | 658.87

ck 200 2070 240 330 660.29 0.31 0.18 660.60 660.47 500 2410 240 330 660.53 0.21 0.20 660.74 660.73

Existing Structure

Stone Riprap Class A4 4'-0" Streambed Elev. 650.2 Bedding Filter Fabric

SECTION A-A

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

GENERAL NOTES

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer. The Contractor shall drive test piles to 110% of the nominal

required bearing specified in production locations at West Abutment or approved by the Engineer before ordering the remainder of piles. Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60 (IL Modified). See Special Provisions.

All bars to be epoxy coated.

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

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

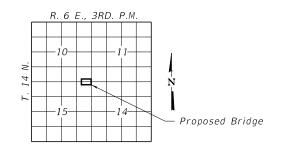
Concrete sealer shall be applied to the designated areas of

INDEX OF STRUCTURE SHEETS

- General Plan & Elevation 21"x48" PPC Deck Beam 21"x48" PPC Deck Beam Details
- Superstructure Details
- Steel Railing, Type S-1
- Abutments
- HP Pile Details
- Borings

JONATHAN CREEK BUILT 201 BY MOULTRIE COUNTY SEC. 12-03130-00-BR JONATHAN CREEK ROAD DISTRICT STR. NO. 070-4337 LOADING HL-93

NAME PLATE See Std. 515001



LOCATION SKETCH

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Ton			260
Filter Fabric	Sq. Yd.			275
Removal of Existing Structures	Each			1
Concrete Structures	Cu. Yd.		26.4	26.4
Precast Prestressed Conc. Deck Beams (21" Depth)	Sq. Ft.	1,512		1,512
Reinforcement Bars, Epoxy Coated	Pound		3,060	3,060
Steel Railing, Type S-1	Foot	104		104
Furnishing Steel Piles HP10x42	Foot		385	385
Driving Piles	Foot		385	385
Test Pile Steel HP10x42	Each		1	1
Name Plates	Each		1	1
Controlled Low-Strength Material	Cu. Yd.			104
Terminal Marker - Direct Applied	Each	4		4

Event/Limi	t Design Sco	ur Elev. (ft.)	Item
State	W. Abut.	E. Abut.	113
Q100	656.4	656.4	
Q500	656.4	656.4	8
Design	656.4	656.4	0
Check	656.4	656.4	

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."

œ.	Heve	n W.	M	ggins	en e	11/01/1 -6064
1L	LINOIS	STRU	CTUB	M/ NO.	081	-6064

$fpbt = 201,960 \ psi \ (\frac{1}{2}"0) \ fy = 60,000 \ psi \ (Reinf.)$	low lax. strands)	10 Year Velocity thr			10 Year Velocity through	Proposed B
FILE NAME = 170793-sht-bridge.dgn	USER NAME = rhosick	DE	DESIGNED -	J.R.B.	REVISED -	
HAMPTON, LENZINI AND RENWICK, INC.		CH	CHECKED -	S.W.M.	REVISED -	
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	DF	DRAWN -	M.M.P.	REVISED -	
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 11/5/2019	CH	CHECKED -	S.W.M.	REVISED -	

Base

Scour Check

Max. Calc.

SEISMIC DATA

Soil Site Class = C

Drainage Area = 13.7 Sq. Mi.

Seismic Performance Zone (SPZ) = 1

Q C.F.S.

100 1820 240

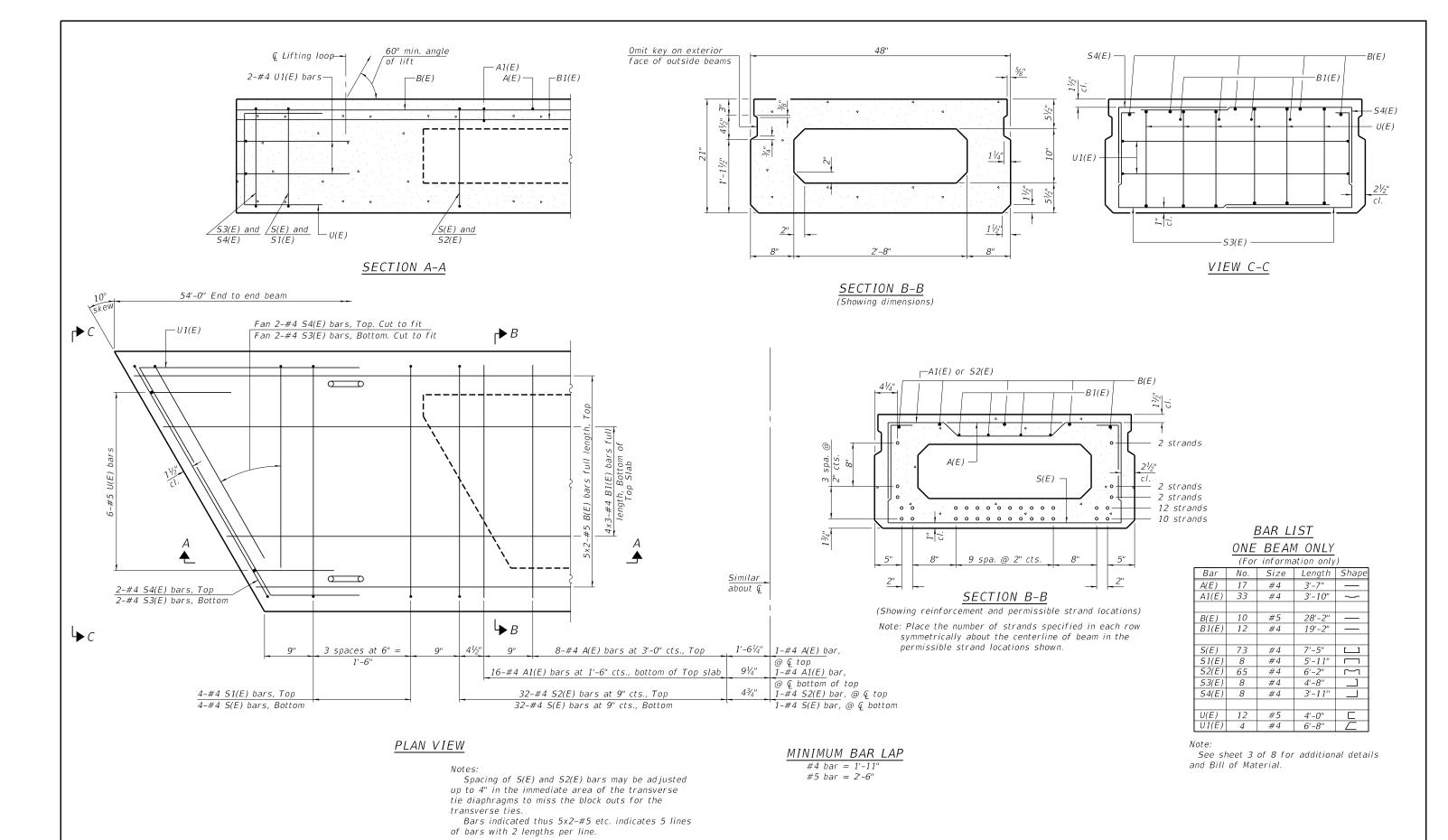
STATE OF ILLINOIS MOULTRIE COUNTY HIGHWAY DEPARTMENT **GENERAL PLAN & ELEVATION STRUCTURE NO. 070-4337** SHEET NO. 1 OF 8 SHEETS

STEVEN

Expires 11-30-2020

T.R.	SEC.	TION		COUNTY	TOTAL SHEETS	SHE		
69	12-0313	0-00-BR		MOULTRIE	18	5		
JONAT	HAN CREEK RO	AD D I STF	RICT	CONTRACT	NO. 958	366		
			CCO 44	DDO IEOT TOUR				

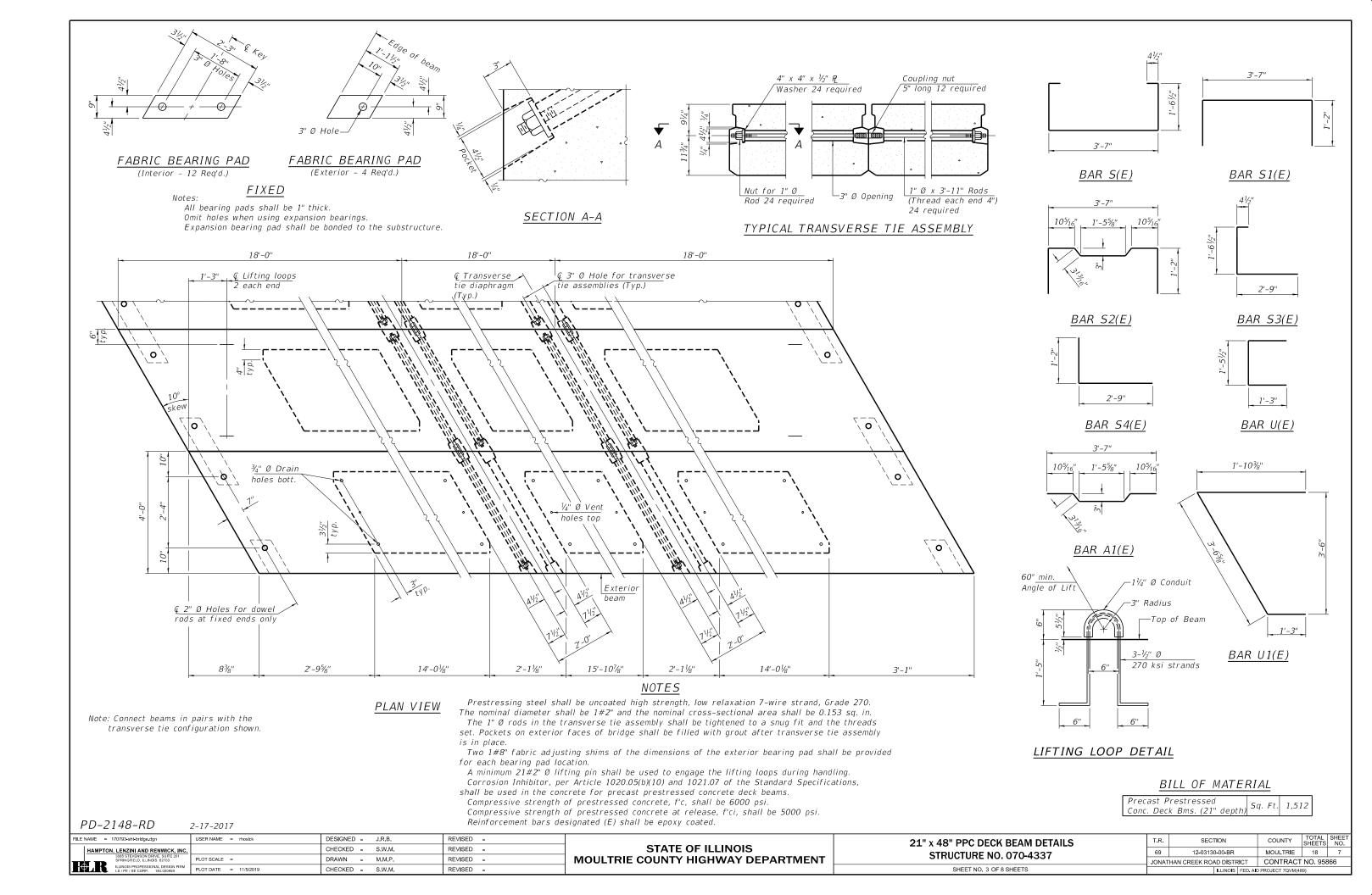
DESIGN SCOUR ELEVATION TABLE

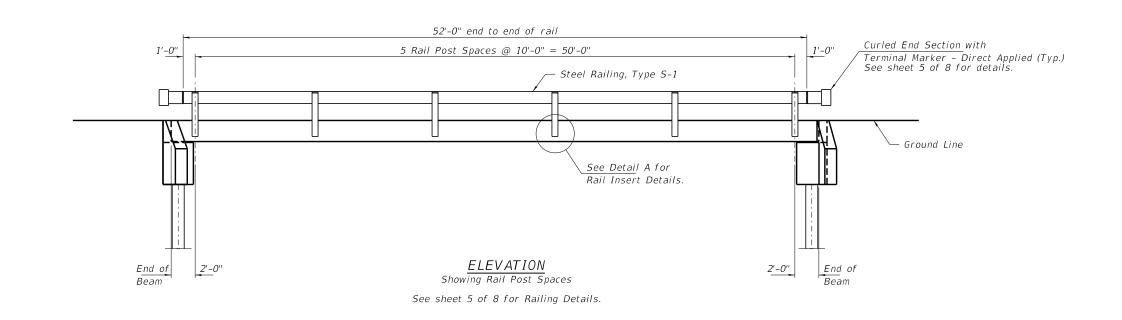


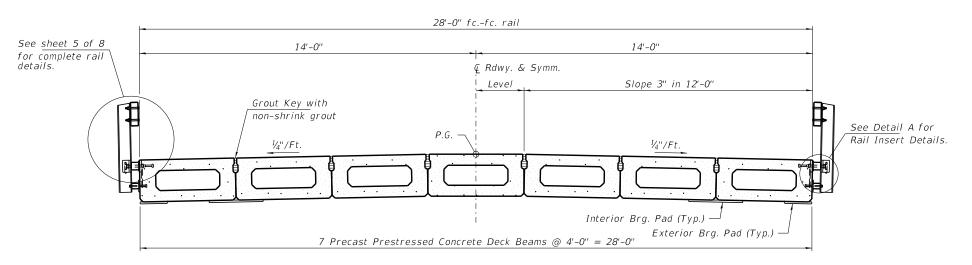
PD-2148-R

2-17-2017

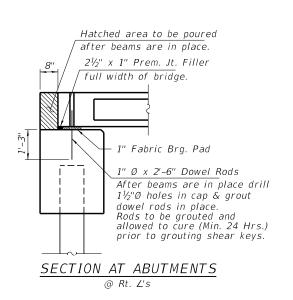
FILE NAME = 170793-sht-bridge.dgn USER NAME = rhosick	DESIGNED - J.R.B.	REVISED -		21" x 48" PPC DECK BEAM	T.R.	SECTION	COUNTY	SHEETS N	Č.
HAMPTON, LENZINI AND RENWICK, INC.	CHECKED - S.W.M.	REVISED -	STATE OF ILLINOIS	// 15 11 5 2 2 3 11 11 2 2 3 11 11 11 11 11 11 11 11 11 11 11 11 1	69	12-03130-00-BR	MOULTRIE	18	6
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 PLOT SCALE =	DRAWN - M.M.P.	REVISED -	MOULTRIE COUNTY HIGHWAY DEPARTMENT	STRUCTURE NO. 070-4337	JONAT	THAN CREEK ROAD DISTRICT		T NO. 95866	\neg
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959 PLOT DATE = 11/5/2019	CHECKED - S.W.M.	REVISED -		SHEET NO. 2 OF 8 SHEETS		ILLINOIS FED. AII	D PROJECT 7QVM(/	189)	

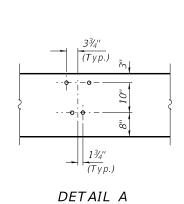


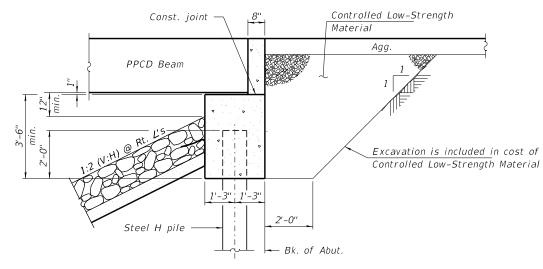




<u>CROSS SECTION</u> See sheets 2 & 3 of 8 for Superstructure.

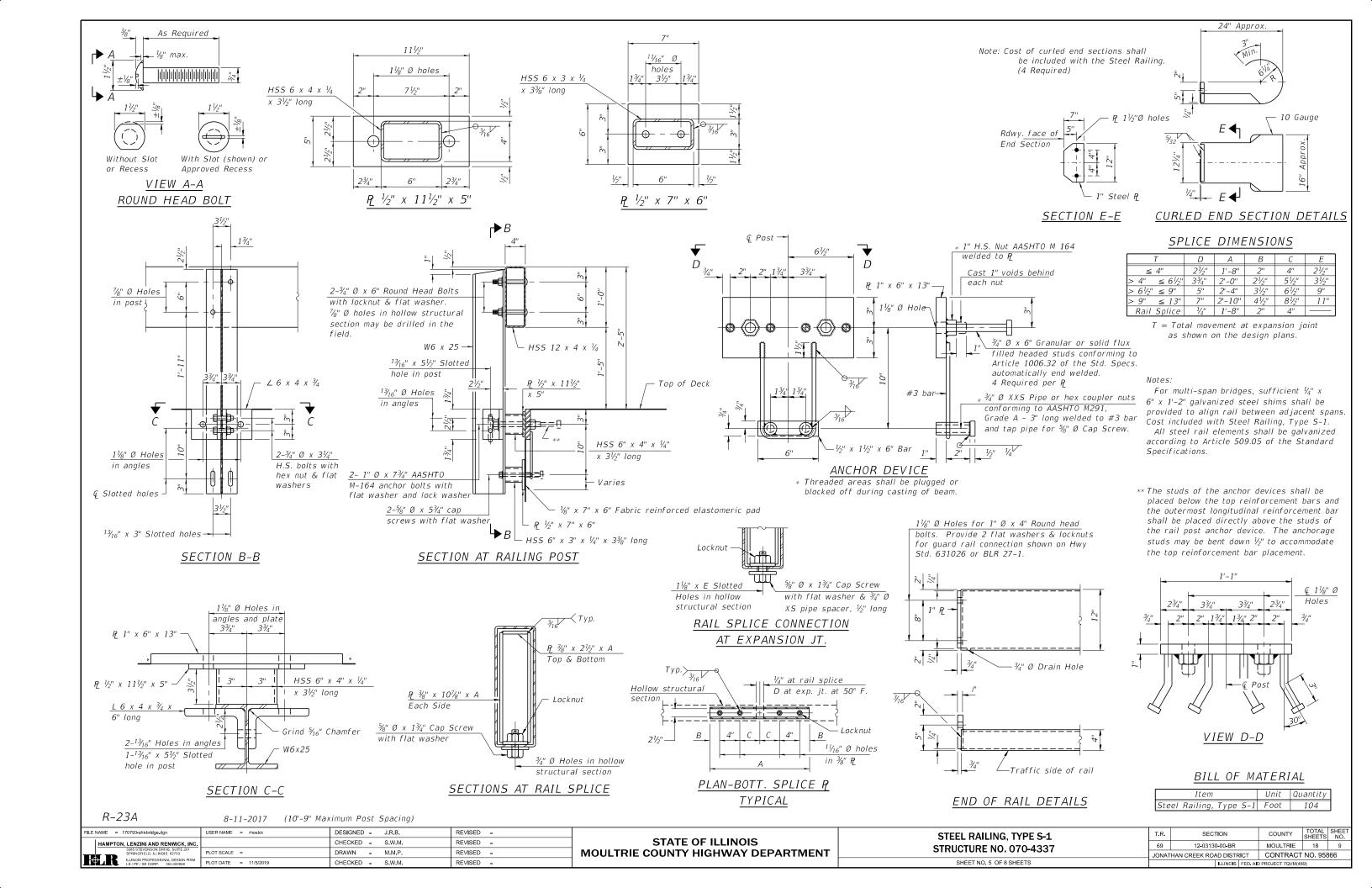


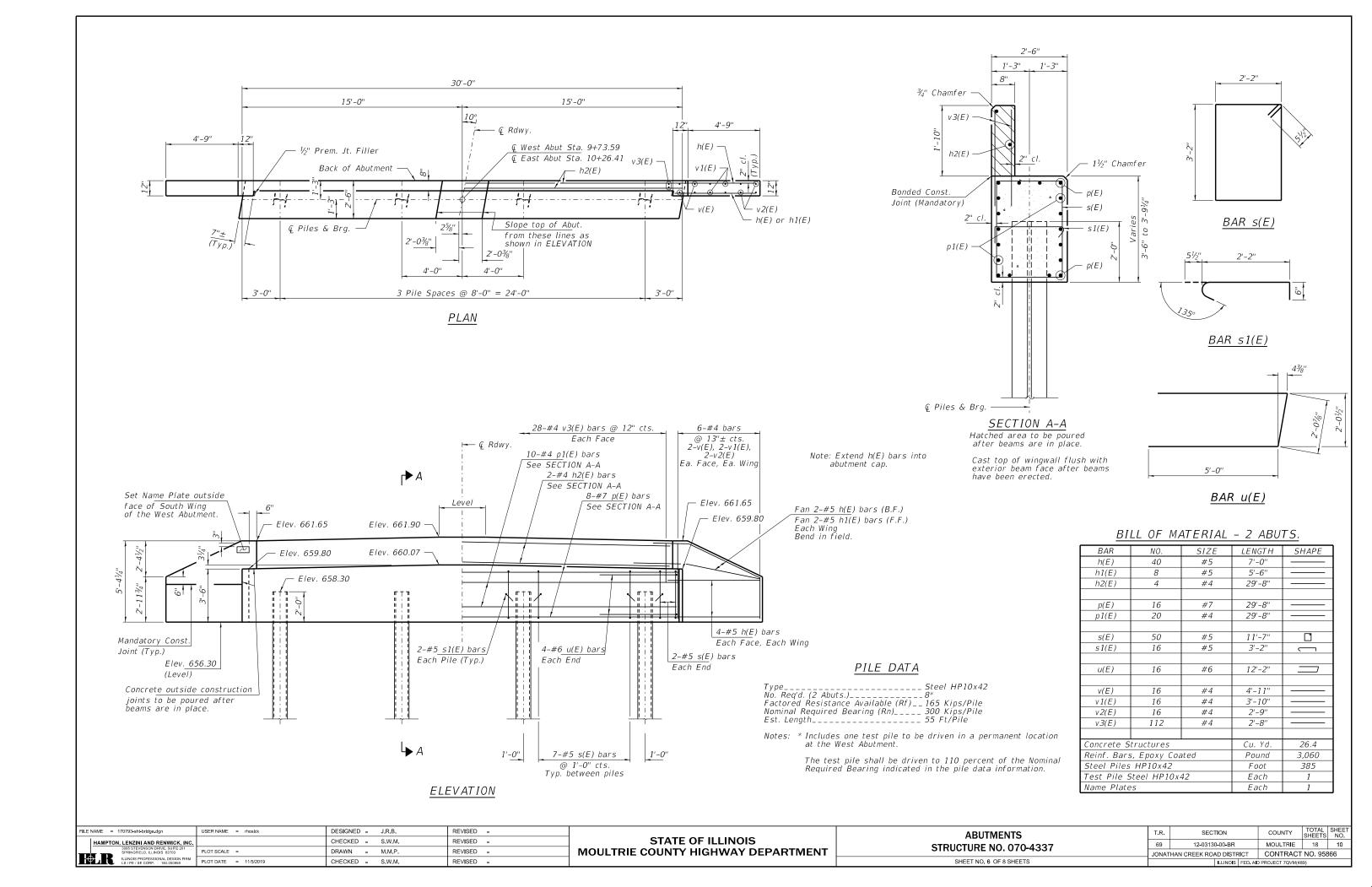


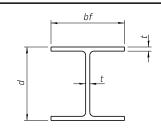


SECTION THRU ABUTMENT (Horiz. dim. @ Rt. L's)

H	ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 1/8/2020	CHECKED - S.W.M.	REVISED -		SHEET NO. 4 OF 8 SHEETS	0010/1110	ILLINOIS FED. AID	PROJECT 7QVM(4	489)	700
l	3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	DRAWN - M.M.P.	REVISED -	MOULTRIE COUNTY HIGHWAY DEPARTMENT	STRUCTURE NO. 070-4337	JONATHA	AN CREEK ROAD DISTRICT	CONTRACT	T NO 958	866
	HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -	STATE OF ILLINOIS		69	12-03130-00-BR	MOULTRIE	18	8
FILE	NAME = 170793-sht-bridge.dgn	USER NAME = rhosick	DESIGNED - J.R.B.	REVISED -		SUPERSTRUCTURE DETAILS	T.R.	SECTION	COUNTY	SHEETS	SHEET

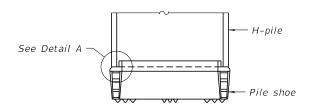




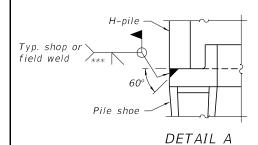


STEEL PILE TABLE

Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	141/4"	1 4 ⁷ / ₈ "	13/ ₁₆ "	30"
x102	14"	143/4"	11/ ₁₆ "	30"
x89	13%"	1 43/4"	5/8"	30"
x73	13%"	145/8"	1/2"	30"
HP 12x84	121/4"	121/4"	¹ 1/ ₁₆ "	24"
x74	12½"	121/4"	5/8"	24"
x63	12"	121/8"	1/2"	24"
x53	1 1 3/4"	12"	⁷ / ₁₆ "	24"
HP 10x57	10"	101/4"	%16"	24"
x42	9¾"	101/8"	⁷ / ₁₆ "	24"
HP 8x36	8"	8½"	7/ ₁₆ "	18"

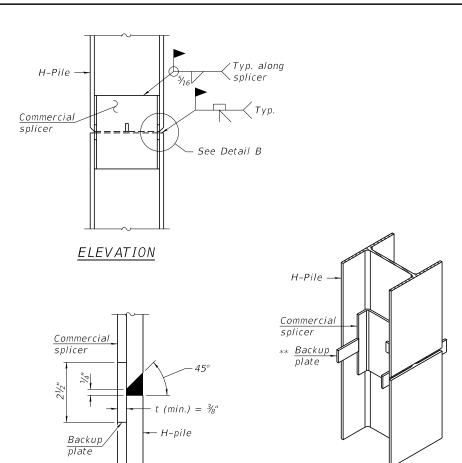


ELEVATION



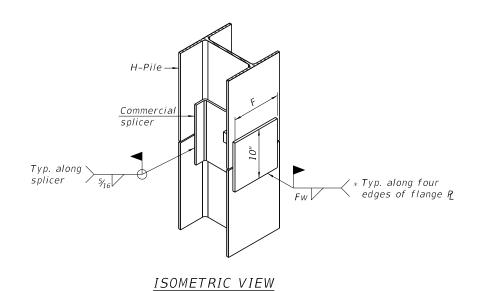
SHOE ATTACHMENT

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



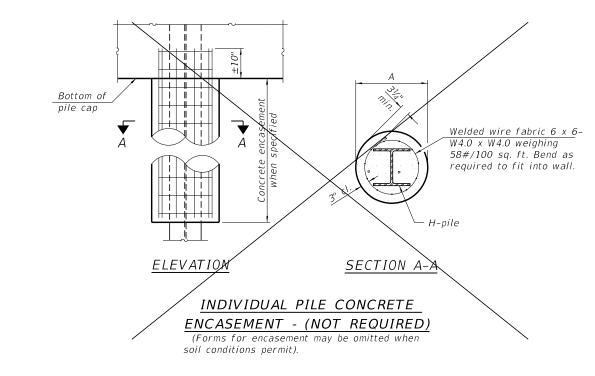
WELDED COMMERCIAL SPLICE

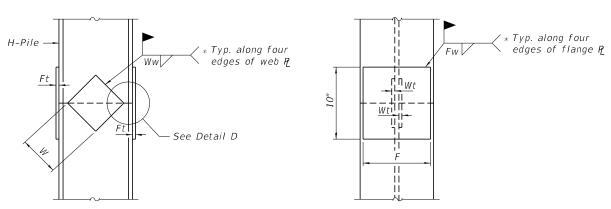
DETAIL "B"



WELDED COMMERCIAL SPLICE ALTERNATE

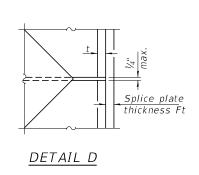
- $_*$ Interrupt welds $\frac{1}{4}$ " from end of web and/or each flange.
- ** Remove portions of backup plates that extend outside the flanges.
- *** Weld size per pile shoe manufacturer (5/16" min.).





ELEVATION

END VIEW



Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12½"	1"	7/8"	7¾"	5/8"	1/2"
x102	12½"	7/8"	3/4"	73/4"	5/8"	1/2"
x89	12½"	3/4"	11/16"	73/4"	5/8"	1/2"
x73	12½"	5/8"	%16"	73/4"	5/8"	1/2"
HP 12x84	10"	7/8"	11/16"	6½"	5/8"	1/2"
x74	10"	7/8"	11/ ₁₆ "	6½"	5/8"	1/2"
x63	10"	5/8"	1/2"	6½"	1/2"	3/8"
x53	10"	5/8"	1/2"	6½"	1/2"	3/8"
HP 10x57	8"	3/4"	%16"	5½"	1/2"	3/8"
x42	8"	5/8"	% ₁₆ "	5½"	1/2"	3/8"
HP 8x36	7"	5/8"	7/ ₁₆ "	41/4"	1/2"	3/8"

WELDED PLATE FIELD SPLICE

F-HP 8-11-2017 USER NAME = rhosick DESIGNED - J.R.B. REVISED -**HP PILE DETAILS** SECTION COUNTY HAMPTON, LENZINI AND RENWICK, INC STATE OF ILLINOIS CHECKED - S.W.M. REVISED -12-03130-00-BR MOULTRIE 18 11 **STRUCTURE NO. 070-4337 MOULTRIE COUNTY HIGHWAY DEPARTMENT** REVISED -JONATHAN CREEK ROAD DISTRICT CONTRACT NO. 95866 REVISED -SHEET NO. 7 OF 8 SHEETS PLOT DATE = 11/5/2019 CHECKED - S.W.M.

ISOMETRIC VIEW

bute: County Road 1800 N 12-03130-00=BR bunty: Moultrie County, Illino ructure No. ation: 09+72 fset: St.	is 4				Boring: B-1 Page: Page 1 of Decembe Date of Boring: Zach Wilc Drilled By: Nick Wen MET Project No: 53115	r 16, 2015 coxen			
Surface Water Elevation:90.0 Ground Water Elevation: when drilling:60.12 at completion: N/A	D E P T H	B L O W S (6")	Q _u	MC	Center of Bridge: STA 10+00, Elevation: 100.00	D E P T H	B L O W S (6")	Q _u	MC (%)
fround Surface Elevation: 100.12 4.5" Oil and Chip over	(ft.)	-	(tsf)	(%) 15		(11.)	(0)	((31)	(70)
7" Oil and Chip and Soil Mix						_	8	7.50	- 11
	_					_	7 8	7.5B	11
Dark brown silty CLAY (CL), Fill	_	2 2	2.5P	13		30			
Bank brown only SEAT (SE); The	_	2				-	5 7	1.8B	21
	5	4			7,	_	10		-
El: 94.12		1 2	1.0P	24					
Brown and gray silty CLAY (CL)	_	2				_			
	_	1							
	_	2	1.0B	23		35	4		
	10					_	8 10	3.4B	17
	_	2 4	4.0 B	15					
El. 00 45	, -	5	1.0		Gray silty CLAY (CL) with	_			
El: 88.12					sand and small gravel, Till	_			
		6 10	5.4B	11		40	-00		
	_	13				_	28 34	8.8S	9
	15	9				_	49		
	_	14 19	7.5S	10		-			
	_	-10				_			
	_	6	12.4B	9		45			
	_	12 17	12.40	9			26	4.5P	8
Gray silty CLAY (CL) with sand and small gravel, Till	20					_	38 51	4.5	
	_	7 10	10.0B	10		_			
	_	13							
	_	10				_			
	-	12	7.6B	9		50	27		
		17				_	36	4.5P	7
	25	9				_	49		
		11 12	9.4B	11	End of Boring El: 48.62				
N - Standard Penetration Test (SPT) MC- Moisture Content - Percent of dr Qu- Unconfined Compressive Streng	y weigh	t			Qu test	B-Bulge S-Shear P-Penetr	ometer		

<u>BORING-1</u>

BRIDGE FOUNDATION SOIL BORING LOG

Route: Section: County: Structure No. Station: Offset:

County Road 1800 N 12-03130-00-BR Moultrie County, Illinois Existing SN: 070-4314 10+35 4' R

MET Midwest Engineering and Testing, Inc.

Boring: Page: Date of Boring: Drilled By: Checked By: MET Project No:

B-2 Page 1 of 1 December 18, 2015 Zach Wilcoxen Nick Wendling 53115

Surface Water Elevation: 90.0 Ground Water Elevation: when drilling: 83.17 at completion: N/A Ground Surface Elevation: 100.17	D E P T H	B L O W S (6")	Q _u	MC	Center of Bridge: STA 10+00, Elevation: 100.00	D E P T H (ft.)	B C W S (6")	Q _u	MC (%)
4.5" Oil and Chip over	-	-	-	13		-	(0)	(131)	(//
7" Oil and Chip and Soil Mix over 10" Crushed Stone					Gray silty CLAY (CL) with sand and small gravel, Till	<u> </u>	6 6 8	3.8B	22
	_	3 2	4.5P	11	El: 70.67	30	0		
	_	3	4.5	1.1		30_	3		
Brown and dark brown mixed silty CLAY (CL) with sand and gravel, Fill	5_				Dark brown clayey SILT (ML)	-	8 11	2.5P	21
	_	2	_	11		_			
	_	3			El: 67.17				
El: 93.17						-			
Brown and gray silty CLAY (CL)	_	2 2	1.2B	11		35			
	_	3	1.20			-	5		
El: 90.67	10					-	11 12	2.4B	22
	_	5 7	2.8B	15		_			
	_	8				_			
	_					_			
	_	12 21	2.8S	12		40 -			
	_	26				-	30	0.45	
Gray silty CLAY (CL) with	15_					_	41 53	3.4B	22
intermittent sand seams and small gravel, Till	-	14 20	0.85	12	Gray silty CLAY (CL) with sand and small gravel, Till	_			
oman gravor, rin	_	24			Sand and Sman graver, Till	_			
	_					_			
		17 21		12	1 1	45 -			
	_	24			8	-	27	4.5P	
	20					-	36 54	4.50	25
	-	12 13	8.8B	14		-			
51.00.47	_	14				_			
El: 88.17						_		- 1	
		8 11	4.4B	15		50			
Crownilla CLAY (OLY)	_	11				_	29	4.55	
Gray silty CLAY (CL) with sand and small gravel, Till	25					_	43 50	4.5P	12
	_	8 10 12	7.2B	21	End of Boring El: 48.67	-			

<u>BORING-2</u>

FILE	NAME = 170793-shl-bridge.dgn	USER NAME = rhoslck	DESIGNED - J.R.B.	REVISED -		BORINGS		SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -	STATE OF ILLINOIS		69	12-03130-00-BR	MOULTRIE	18	12
	3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE =	DRAWN - M.M.P.	REVISED -	MOULTRIE COUNTY HIGHWAY DEPARTMENT	STRUCTURE NO. 070-4337	JONATHAN CREEK ROAD DISTRICT		CONTRACT NO. 9586		66
	ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 11/5/2019	CHECKED - S.W.M.	REVISED -		SHEET NO. 8 OF 8 SHEETS		ILLINOIS FED. AIG	D PROJECT 7QVM(4	489)	

