11-08-2019 LETTING ITEM 089

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED STP OFF-SYSTEM BRIDGE

INDEX OF SHEETS

11.-12. CROSS SECTIONS OF ROADWAY

1. COVER SHEET
2. SUMMARY OF OUANTITIES AND GENERAL NOTES
3. TYPICAL SECTIONS, MISCELLANEOUS DETAILS AND
CONSTRUCTUION SCHEDULES
4. PLAN AND PROFILE OF ROADWAY
5. GENERAL PLAN AND ELEVATION
.-7. PRECAST PRESTRESSED CONCRETE DECK BEAM DETAILS
8. STEEL RAILING, TYPE SI DETAILS
9. ABUTMENT DETAILS
10. HP PILE DETAILS

HIGHWAY STANDARDS (SEE PROPOSAL BOOKLET)

OOOOO1-O7 STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-O7 TEMPORARY EROSION CONTROL SYSTEMS
515001-O3 NAME PLATE FOR BRIDGES
630301-O9 SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
701901-08 TRAFFIC CONTROL DEVICES
720006-04 SIGN PANEL ERECTION DETAILS
720011-01 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
725001-01 OBJECT AND TERMINAL MARKERS

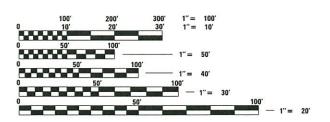
701901-08 TRAFFIC CONTROL DEVICES
720006-04 SIGN PANEL ERECTION DETAILS
720011-01 METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
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729001-01 APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
BLR 21-9 TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 24-2 MAILBOX TURNOUT FOR LOCAL ROADS
TRAFFIC BARRIER TERMINAL TYPE 5A

TR 187 (JIMTOWN ROAD)
OVER ELKHORN CREEK
SECTION 14-14118-00-BR
PROJECT NO. 75NJ(010)
PLUM HILL TOWNSHIP
WASHINGTON COUNTY
JOB NO. C-98-342-16

SOIL BORINGS (SEE SPECIFICATIONS)

DESIGN CLASSIFICATION: RURAL LOCAL ROAD
ADT₂₀₁₅: 100

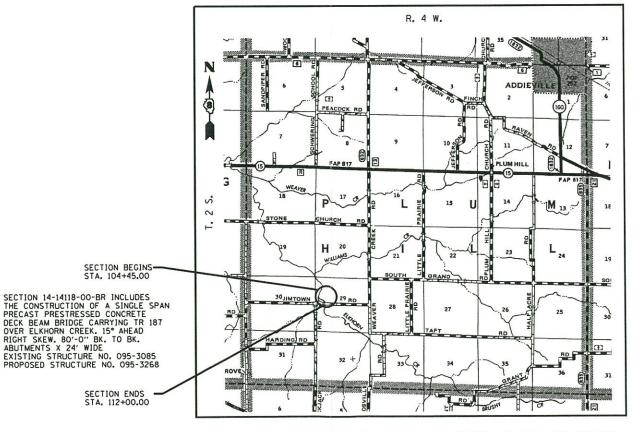
DESIGN SPEED: 30 MPH



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.

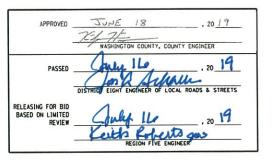
JOINT UTILITY LOCATING INFORMATION FOR EXCAVATORS
1-800-892-0123 or 811 Website: http://www.illinois1call.com



LOCATION: NEAR THE SW CORNER OF THE NW 1/4, SECTION 29, T2S, R4W, 3RD P.M.
GROSS LENGTH OF PROJECT: 755.00 FT. = 0.143 MI.
NET LENGTH OF PROJECT: 755.00 FT. = 0.143 MI.
NOT TO SCALE

RAAI JOB NO. 5341





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BRENT L. TAYLOR
SALEM, ILLINOIS
ILLINOIS LICENSED PROFESSIONAL

ENGINEER NO. 062-066114 EXPIRES NOV. 30, 2019

UTILITIES

Design Phase Locate Dig No.: X3301749-00X

Telephone: Scott Gremmels Egyptian Telephone Coop 1010 West Broadway Steeleville, IL 62288 Phone: 618-774-1000

Electric: Danny Hopfinger Tri-County Electric Coop 3906 Broadway Mount Vernon, IL 62864 Phone: 618-244-5151

Water: Steve Fletcher Washington County Water 17575 Connecticut Road Nashville, IL 62263 Phone: 618-327-4454

GENERAL NOTES

- 1. This section shall be constructed according to the plans, the Special Provisions, and the "Standard Specifications for Road and Bridge Construction", adopted April 1, 2016.
- 2. Roadway Centerline profiles refer to the finished surface.
- 3. Existing utilities shown are located from surface observations or information provided by the respective utilities and must be considered approximate and are only included for the convenience of the bidder. There may be others, the exact location of which are unknown and not shown. The Confractor will be respectively for patients the respective utilities before will be responsible for notifying the respective utilities before work is begun. Field marking of underground utilities may be obtained by providing a minimum of 48 hours advance notice through the J.U.L.I.E. system by calling 1-800-892-0123, 811, or by direct contact with non-members of J.U.L.I.E.
- 4. There is 1 mailbox within limits of construction. Relocate per Article 107.20 & Standard BLR 24-2. Utilize Aggregate
 Surface Course, Type B. 6" depth - 3 Ton each turnout
 (Included in Summary of Quantities). Contractor shall coordinate
 location of temporary and final mailbox locations with the Postmaster.
- 5. Factors used for quantity calculations are as follows: Stone Dumped Riprap Aggregate Surface Course Bituminous Materials (Prime Coat) 130 pounds/cu. ft. 2.1 tons/cu. yd. 0.35 gal/sq yd 0.25 gal/sq yd Bituminous Materials (Cover and Seal Coats) Cover and Seal Coat Aggregate 25 pound/sq yd
- 6. Commitments:

No free clearing will be allowed or performed from April I through September 30 as part of the effort to conserve the Indiana and Northern Long-Eared bat.

Existing fence removal and replacement within the limits of construction will be done by others and will be coordinated by the Township. The removal will be completed prior to the start of construction.

The County Engineer will notify public service providers prior to the start of construction.

Unused excavated material shall be placed on an upland site and should not impact any jurisdictional waters of the United States.

Temporary construction access, structures or fills within jurisdictional waters shall be removed once the activity is complete and the site shall be restored to pre-project conditions, including elevations, soil substrate and vegetation.

	20300100	CHANNEL EXCAVATION	CU YD	2,10
	20400800	FURNISHED EXCAVATION	CU YD	2185
}	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	90
	28000305	TEMPORARY DITCH CHECKS	F00T	110
	40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	686
}	40300200	BITUMINOUS MATERIALS (PRIME COAT)	TON	8.9
	40300400	BITUMINOUS MATERIALS (COVER AND SEAL COATS)	TON	4.7
	40300500	COVER COAT AGGREGATE	TON	38
}	40300600	SEAL COAT AGGREGATE	TON	19
	50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
	50105220	PIPE CULVERT REMOVAL	F00T	20
ļ	50300225	CONCRETE STRUCTURES	CU YD	24.8
ŀ	50300280	CONCRETE ENCASEMENT	CU YD	2.8
ŀ	50400605	PRECAST PRESTRESSED CONCRETE DECK BEAMS (33" DEPTH)	SQ FT	1888
ŀ	50800105	REINFORCEMENT BARS	POUND	4140
Δ	50900205	STEEL RAILING, TYPE SI	FOOT	160
	51201600	FURNISHING STEEL PILES HP12X53	F00T	308
	51202305	DRIVING PILES	F00T	308
	51203600	TEST PILE STEEL HP12X53	EACH	1
	51500100	NAME PLATES	EACH	1
	542C0235	PIPE CULVERTS, CLASS C. TYPE 1 30"	F00T	44
	59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	52.8
Δ	63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	2
۵	63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2
	67100100	MOBILIZATION	L SUM	1
۵	72000100	SIGN PANEL - TYPE I	SO FT	18
Δ	72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
Δ	72900200	METAL POST - TYPE B	F00T	31
	X2501000	SEEDING. CLASS 2 (SPECIAL)	ACRE	0.9
**	X2810808	STONE DUMPED RIPRAP, CLASS A4 (SPECIAL)	TON	306
	X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1
		mped Riprap, Class A4 as called out in the plans		
	reters to	Stone Dumped Riprap, Class A4 (Special).	; Co	UNTY TOTAL SHE

SUMMARY OF QUANTITIES

Item

TREE REMOVAL, ACRES

EARTH EXCAVATION

Code No.

20100500

20200100

Unit

ACRE

CU YD

Quantity

0.5

955

RHUTASEL and ASSOCIATES, INC. CONSULTING ENGINEERS . LAND SURVEYORS SALEM, ILLINOIS FREEBURG, ILLINOIS ILLINOIS DESIGN FIRM LICENSE NO. 184-000287

	DESIGNED	-	BLT	REVISED	_
١ .	DRAWN	-	JN.	REVISED	-
	CHECKED	-	GLH	REVISED	-
	DATE	-	05/08/2019	REVISED	-

	EARTHWORK SCHEDULE							
	LOCATION		EARTH EXCAVATIO ADJUSTED FOR SHRINKAGE FACTOR (25%)		EMBANKMENT (FILL)	EARTHWORK BALANCE*** WASTE (+) OR SHORTAGE (-)		
			CU. YD.	CU. YD.	CU. YD.	CU. YD.		
STA.	104+45 TO STA.	107+05	104	78	1516	-1438		
STA.	107+85 TO STA.	112+00	849	637	1385	-748		
		TOTALS:	953	715	2901	-2186		
	FURNISHED							

*** FURNISHED **EXCAVATION**

EROSION CONTROL SCHEDULE							
LOCATION			* TEMPORARY DITCH CHECK	INLET AND PIPE PROTECTION	PERIMETER EROSION BARRIER		
BEGIN STATION	END STATION	OFFSET	FOOT	EACH	FOOT		
104+45	107+05	LT	20	0	0		
104+45	107+05	RT	30	0	0		
107+85	112+00	LT	30	0	0		
107+85	112+00	RT	30	0	0		
		TOTAL	110	0	0		

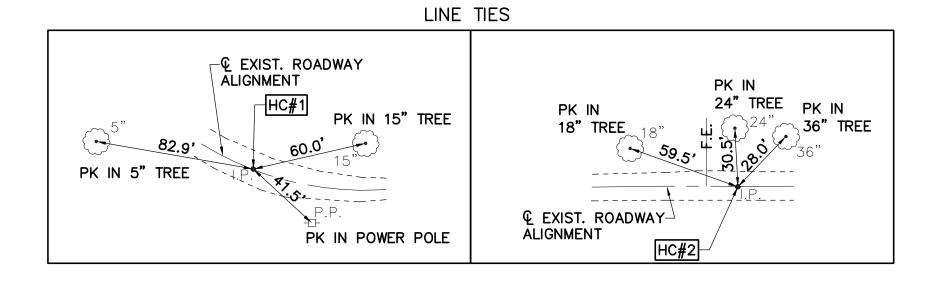
SEE PLANS FOR RIPRAP LOCATIONS

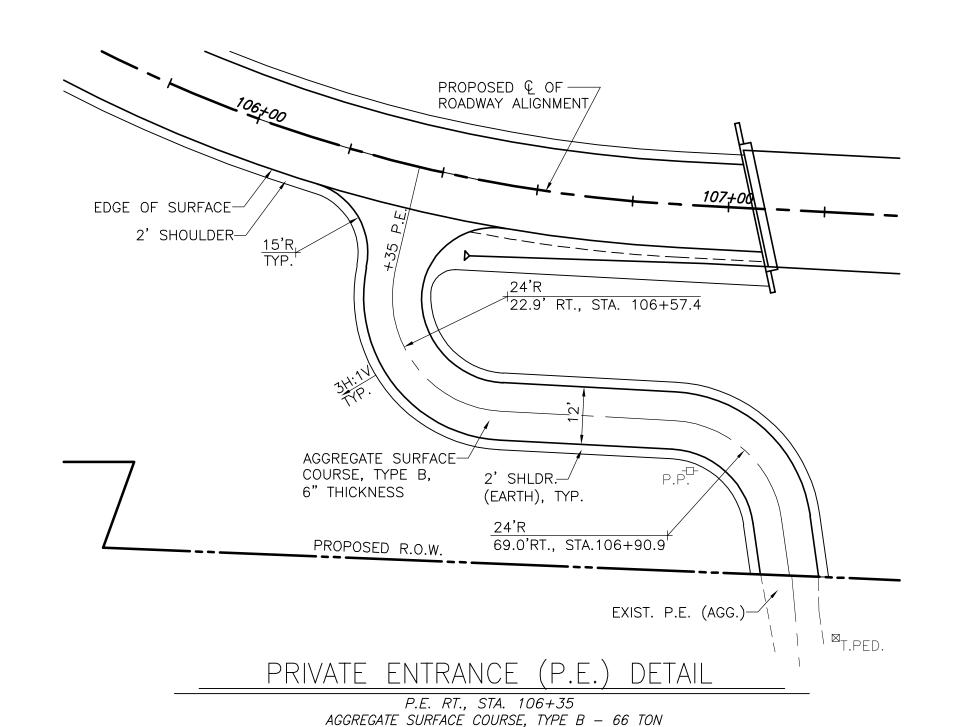
* TEMPORARY DITCH CHECKS ARE ASSUMED 10' LENGTH EACH LOCATION.

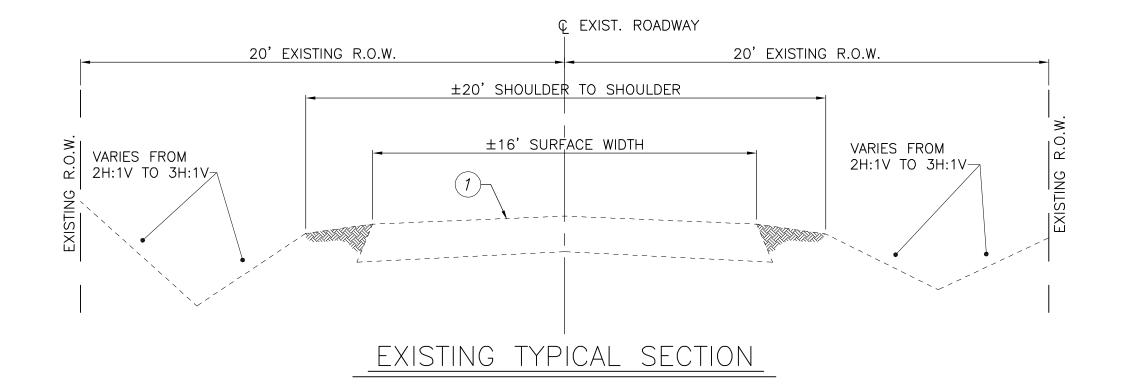
TREE REMOVAL SCHEDULE							
	LOCATION		SIZ	E	TREE REMOVAL		
BEGIN STATION	END STATION	OFFSET	LENGTH	WIDTH	ACRES		
105+20	107+45	LT	225	VAR.	0.10		
106+60	107+45	RT	85	VAR.	0.02		
107+45	109+40	LT	195	VAR.	0.20		
109+40	111+60	LT	220	VAR.	0.06		
		•	•	TOTAL	0.4		

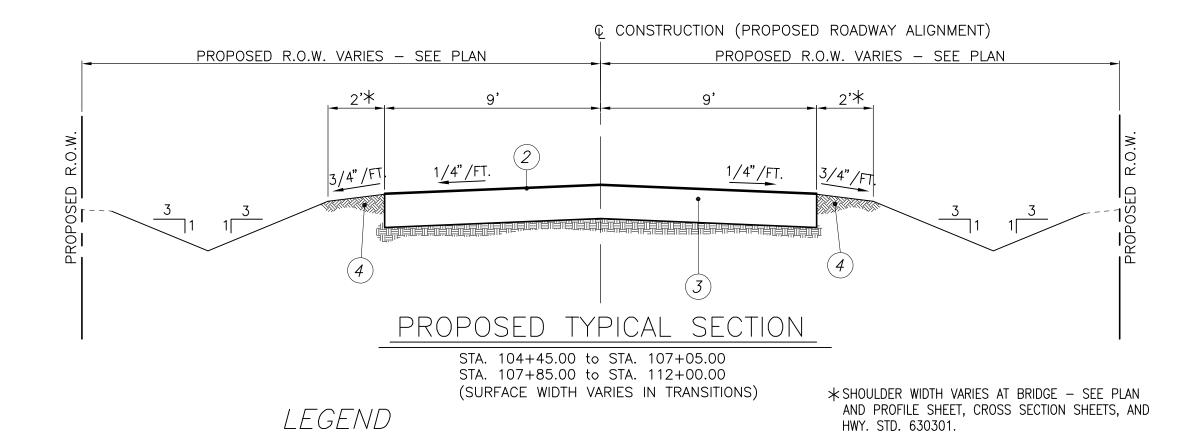
TREE REMOVAL AREA WITHIN LIMITS OF CONSTRUCTION

HORIZONTAL AND VERTICAL CONTROL SCHEDULE								
POINT	DESCRIPTION	LOCATION	NORTHING	EASTING	ELEVATION			
HC#1	IRON PIN	29.9' RT., STA. 106+65.3	10054.30	9867.66	-			
HC#2	IRON PIN	9.9' RT., STA. 109+54.1	10054.30	10159.01	-			
TBM#1	RR SPIKE IN POWER POLE	54.1' RT., STA. 106+94.5	-	_	437.78			
TBM#2	RR SPIKE IN POWER POLE	·	-	-	437.93			







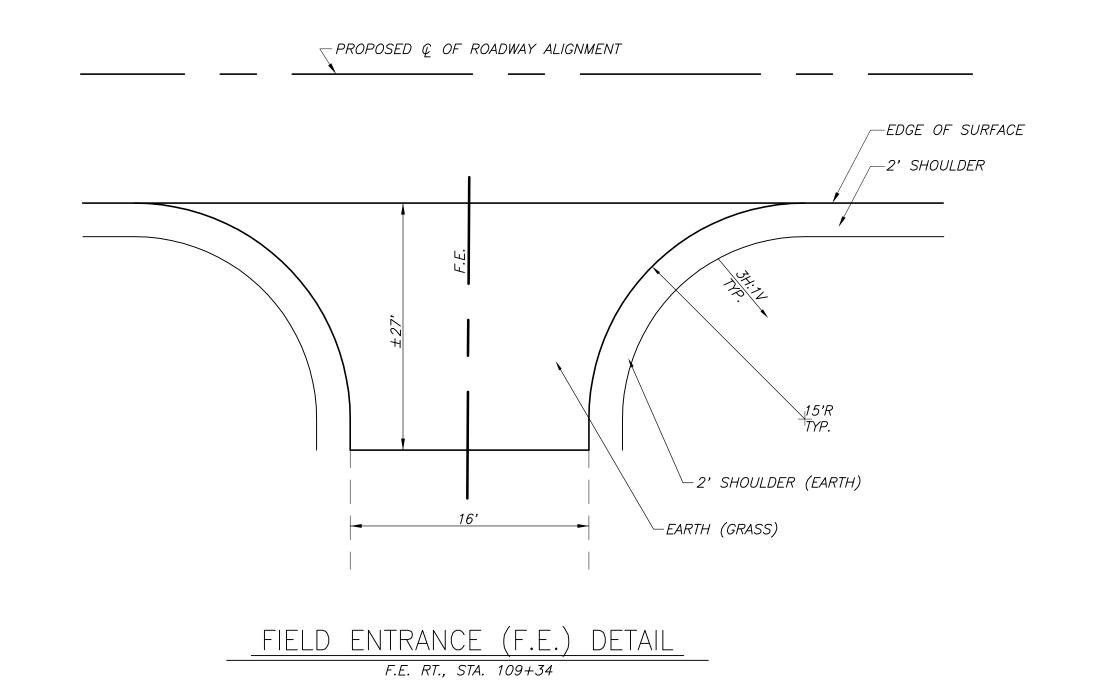


1 EXISTING ROADWAY SURFACE (OIL & CHIP)

(2) BITUMINOUS SURFACE TREATMENT (CLASS A-3)

3 AGGREGATE SURFACE COURSE, TYPE B, 8"

(4) EARTH SHOULDER



RAAI JOB NO. 53417

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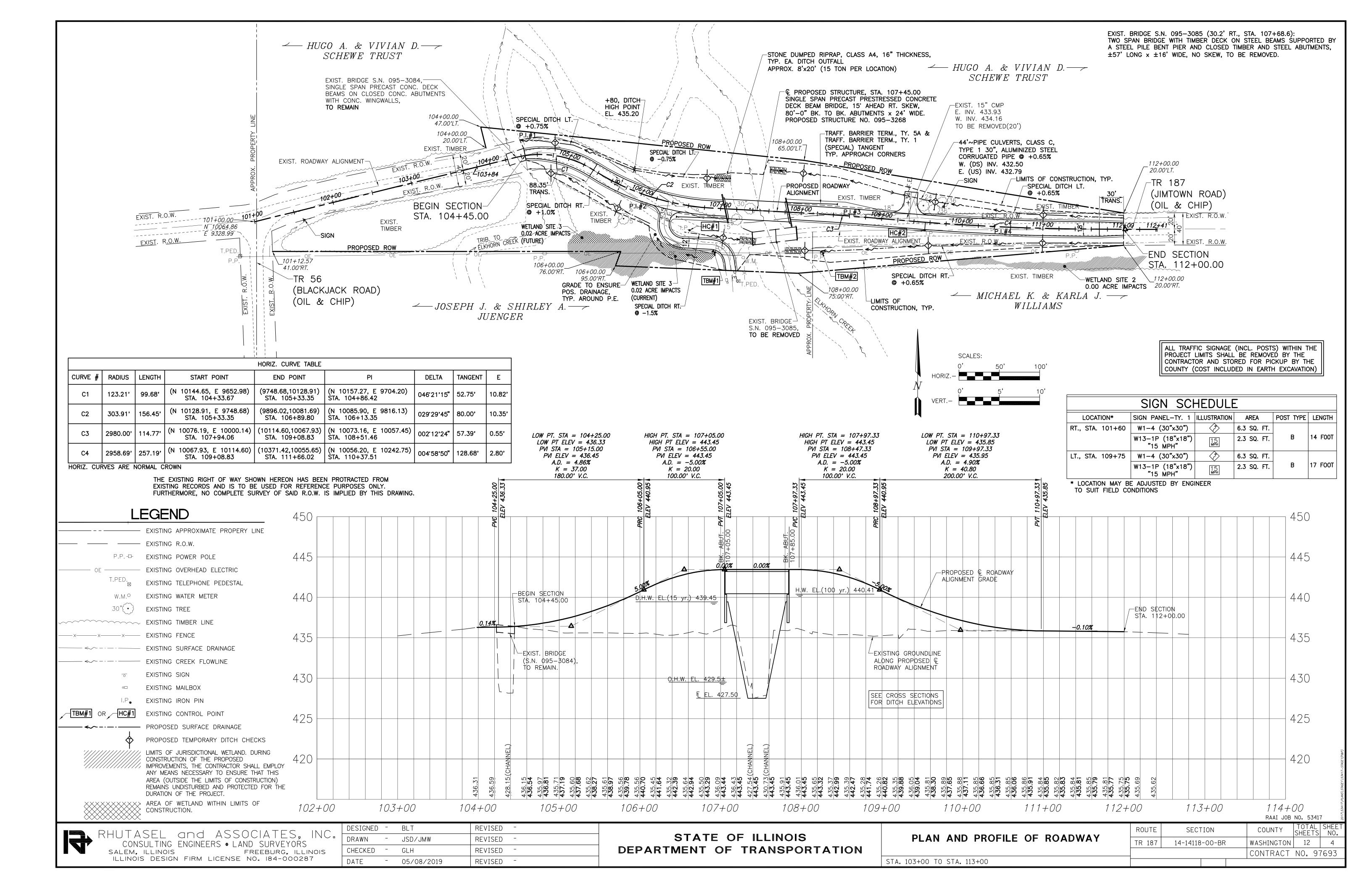
DESIGNED REVISED BLT DRAWN JMW REVISED CHECKED GLH REVISED 05/08/2019 REVISED

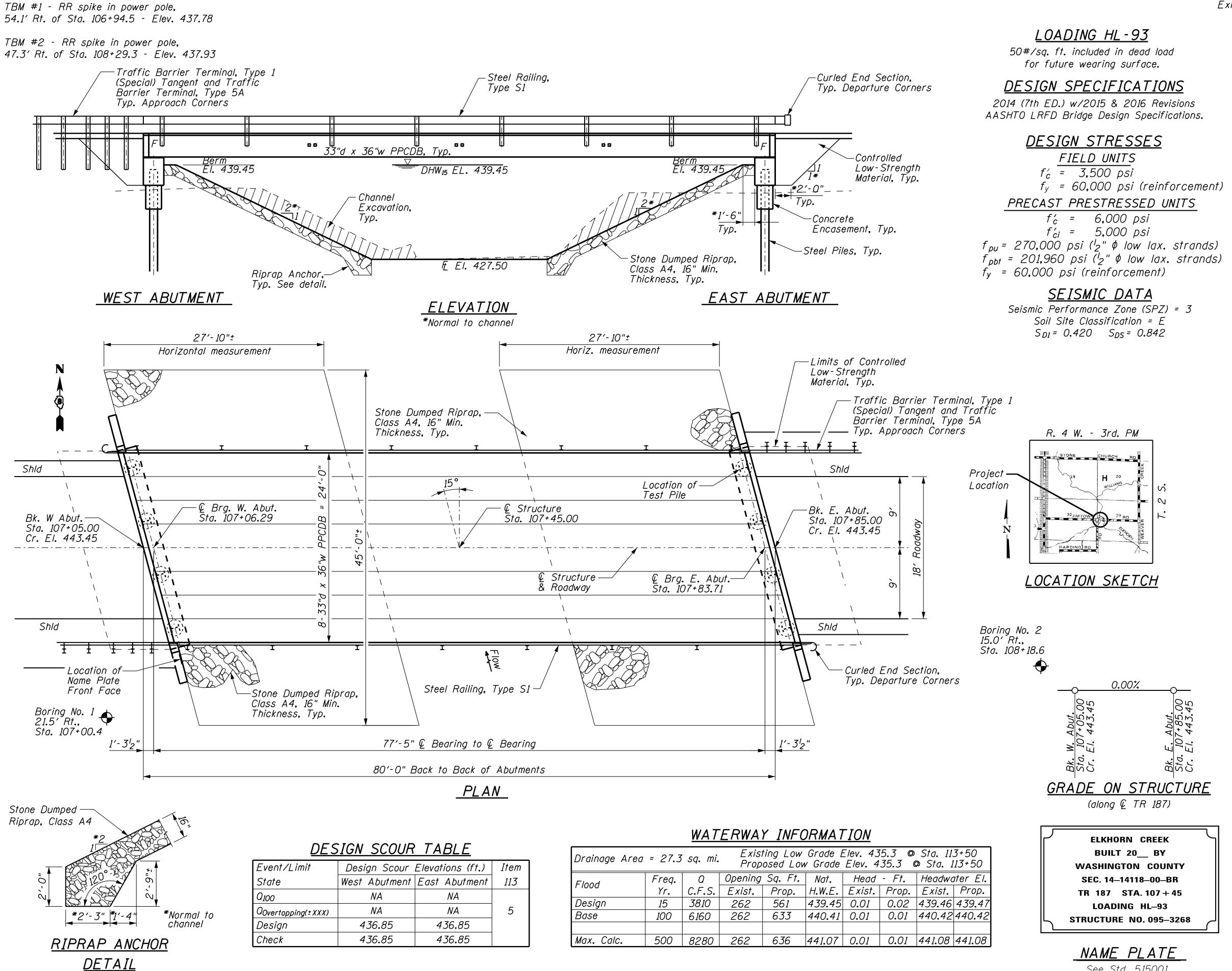
(INCLUDED IN SUMMARY OF QUANTITIES)

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION TYPICAL SECTIONS, MISCELLANEOUS DETAILS AND CONSTRUCTION SCHEDULES

ROUTE SECTION COUNTY WASHINGTON 12 3 TR 187 14-14118-00-BR CONTRACT NO. 97693

HWY. STD. 630301.





Existing Structure: Structure No.: 095-3085. Two span bridge with timber deck on steel beams supported by a steel pile bent pier and closed timber and steel abutments. 57'± L. x 16'± W. No skew. To be removed.

BILL OF MATERIALS (BRIDGE ONLY)

		<u> </u>
ITEM	UNIT	TOTAL
Channel Excavation	Cu Yd	210
Removal of Existing Structures	Each	1
Concrete Structures	Cu Yd	24.8
Concrete Encasement	Cu Yd	2.8
PPCDB (33" Depth)	Sq Ft	1888
Reinforcement Bars	Pound	4140
Steel Railing, Type S1	Foot	160
Furnishing Steel Piles HP12x53	Foot	308
Driving Piles	Foot	308
Test Pile Steel HP12x53	Each	1
Name Plates	Each	1
Controlled Low-Strength Material	Cu Yd	<i>52.8</i>
Terminal Marker - Direct Applied	Each	4
Stone Dumped Riprap, Class A4 (Special)	Ton	246

* At bridge only - See Plan and Profile for additional Riprap quantity. Stone Dumped Riprap, Class A4 as called out in the plans refers to Stone Dumped Riprap, Class A4 (Special).

GENERAL NOTES

Do not scale these drawings.

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

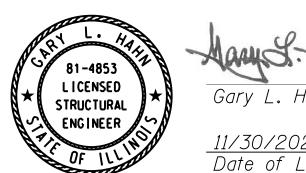
Channel excavation shall be excavated as shown within the limits of the proposed bridge, then tapered to the existing channel within 60' of the centerline of proposed roadway. If the Engineer deems the material satisfactory, it may be used to construct the roadway embankment.

See Section 502 of the Standard Specifications for Structural Excavation.

See Special Provisions for Soil Borings.

The abutment bearing seat surfaces for the precast prestressed concrete deck beams shall be adjusted by shimming to assure firm and even bearing. As required, ^l₈" fabric adjusting shims of the dimensions of the Exterior Bearing Pad shall be provided for each bearing. The top surface of the beams shall be finished according to the IDOT Manual for Fabrication of Precast Prestressed Concrete Products.

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 Standard Specifications for Highway Bridges.



Gary L. Hahn

11/30/2020 Date of License Expiration

See Std. 515001

RAAI JOB NO. 53417

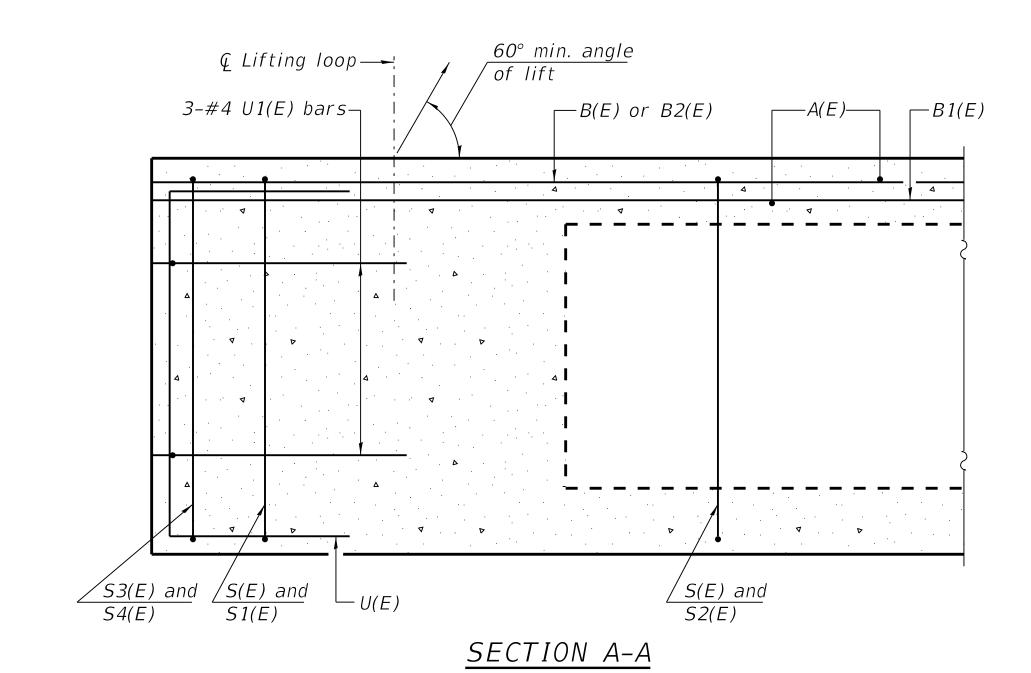
RHUTASEL and ASSOCIATES, INC. CONSULTING ENGINEERS • LAND SURVEYORS SALEM, ILLINOIS FREEBURG, ILLINOIS ILLINOIS DESIGN FIRM LICENSE NO. 184-000287

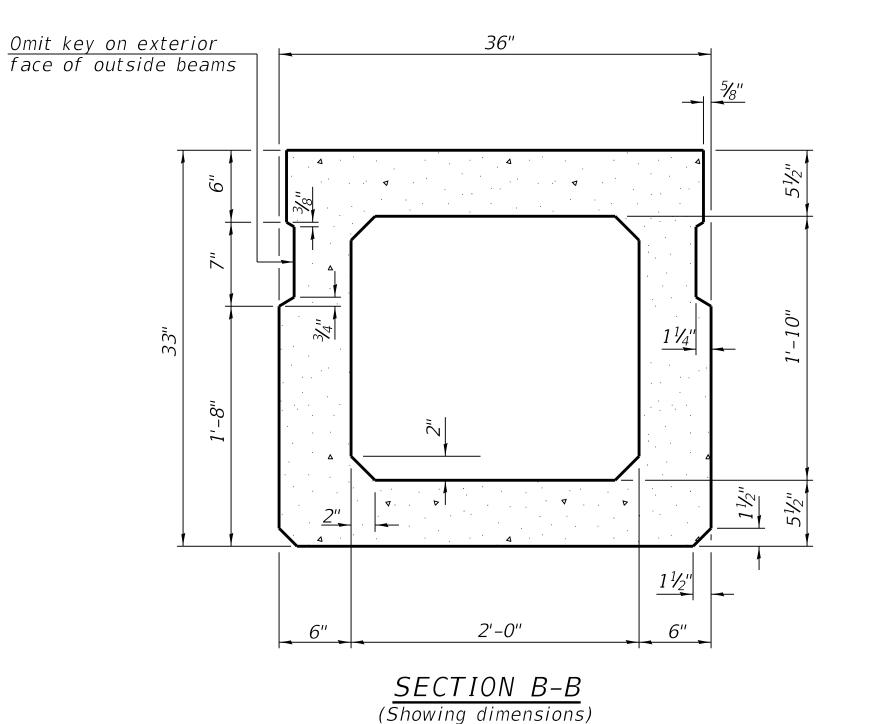
DESIGNED - BLT REVISED DRAWN REVISED - JN CHECKED - GLH REVISED DATE 05/08/2019 REVISED

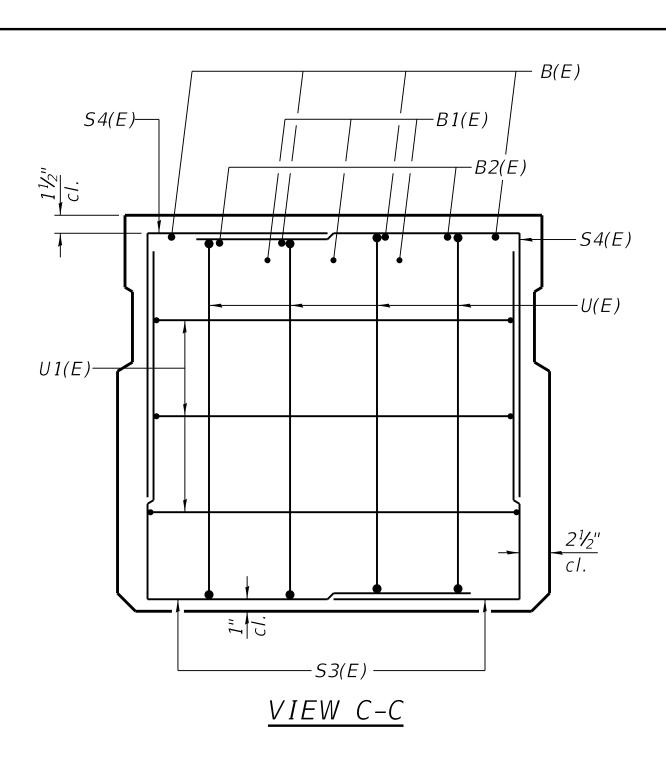
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

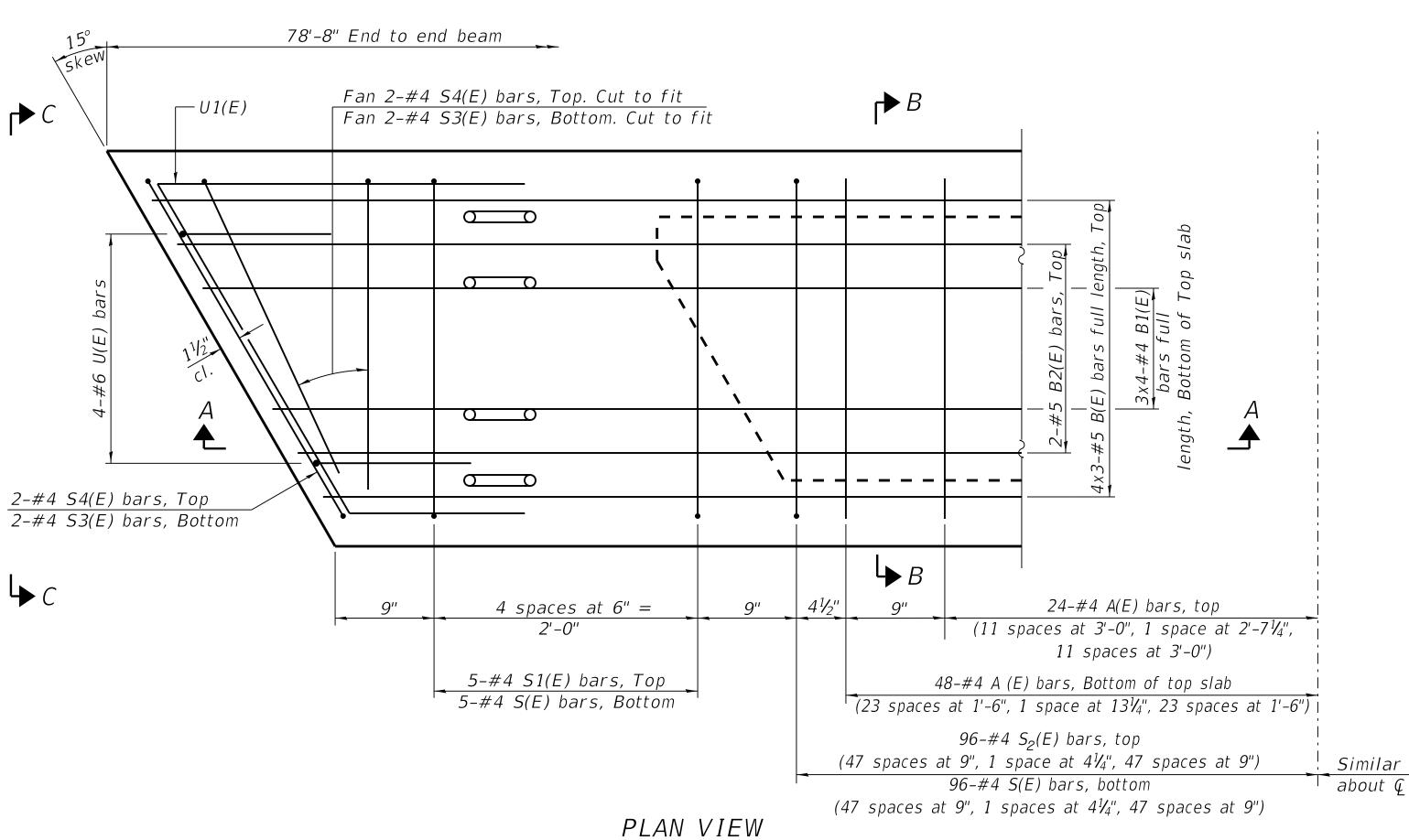
GENERAL PLAN AND ELEVATION

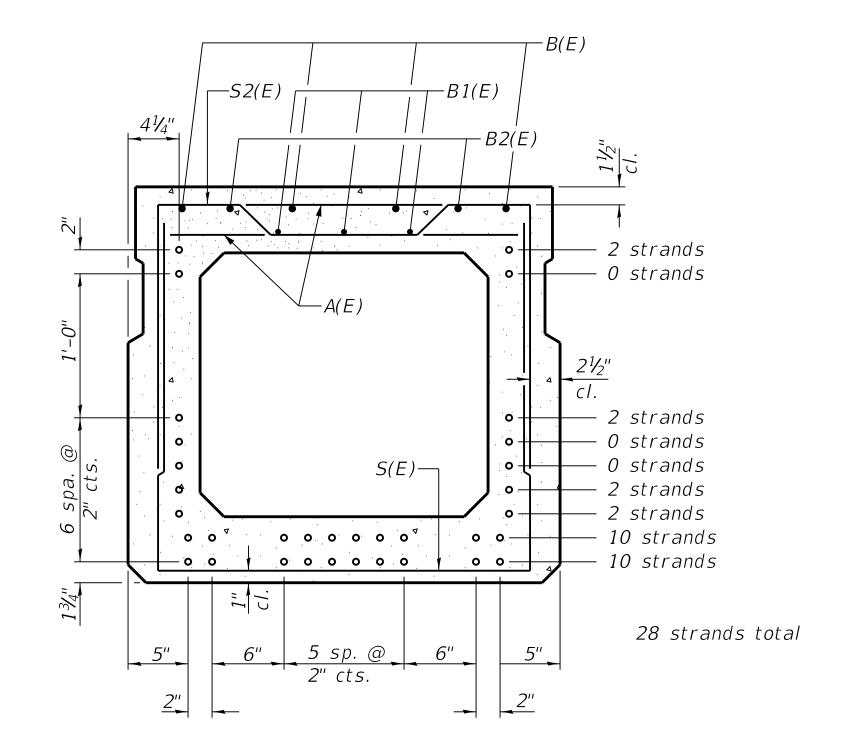
TOTAL SHEET SHEET NO. SECTION COUNTY ROUTE TR 187 14-14118-00-BR WASHINGTON 12 5 CONTRACT NO. 97693











SECTION B-B

(Showing reinforcement and permissible strand locations)

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

BAR LIST ONE BEAM ONLY (For information only)

	•		,	,
Bar	No.	Size	Length	Shape
A(E)	72	#4	2'-7"	
B(E)	12	#5	27'-10"	
B1(E)	12	#4	21'-1"	
B2(E)	4	#5	10'-0"	
S(E)	106	#4	7'-8"	
S1(E)	10	#4	6'-5"	
<i>S2(E)</i>	96	#4	6'-8"	_
S3(E)	8	#4	5'-0"	
S4(E)	8	#4	4'-5"	
U(E)	8	#6	5'-0"	
<i>U1(E)</i>	6	#4	5'-9"	

Note: See sheet 7 for additional details and Bill of Material.

Note: Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.

Bars indicated thus: 4x3-#5 etc. indicates 4 lines of bars with 3 lengths per line.

MINIMUM BAR LAP

#4 bar = 1'-11" #5 bar = 2'-6"

RHUTASEL and ASSOCIATES, INC.

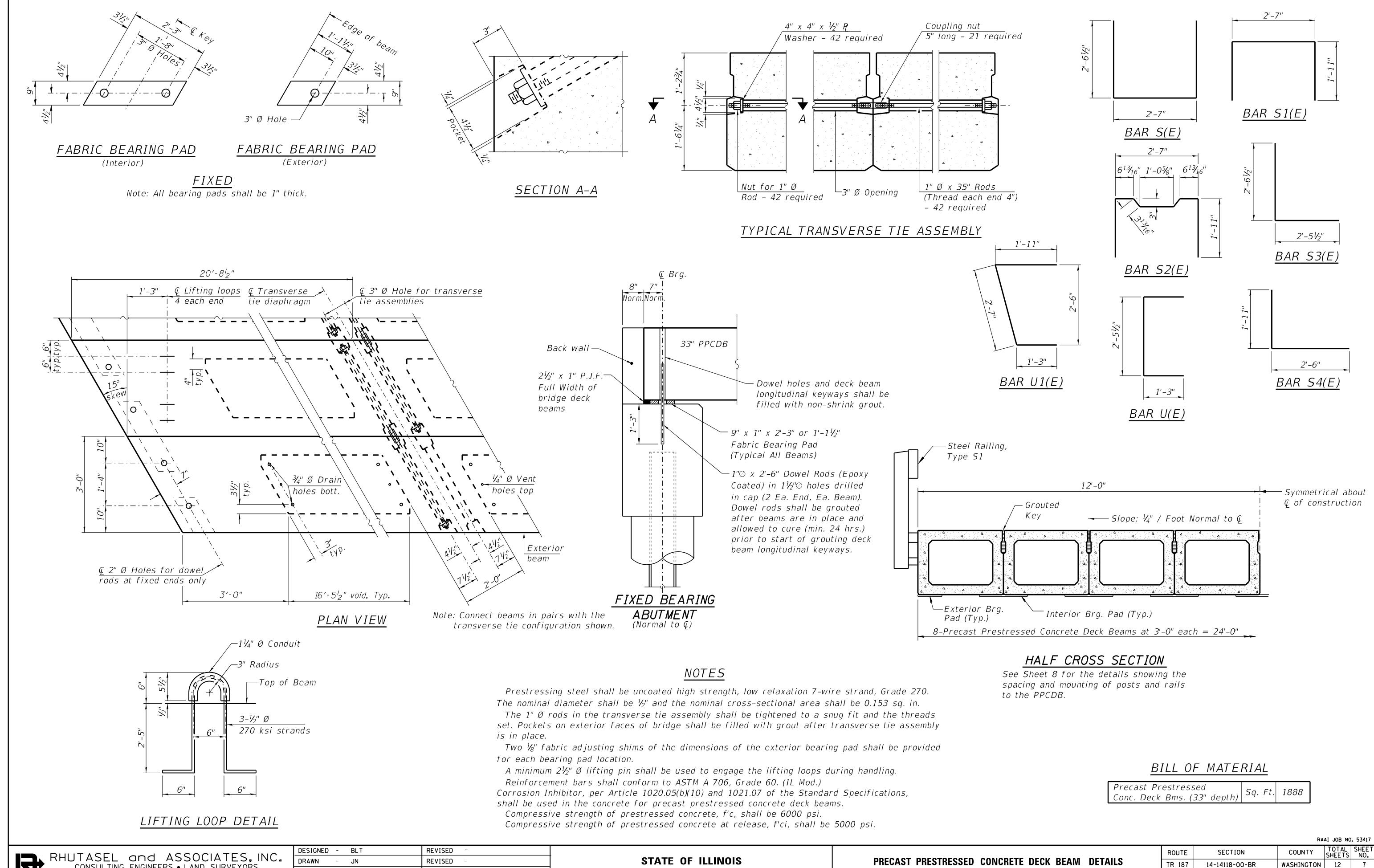
CONSULTING ENGINEERS • LAND SURVEYORS

SALEM, ILLINOIS FREEBURG, ILLINOIS
ILLINOIS DESIGN FIRM LICENSE NO. 184-000287

	DESIGNED	-	BLT	REVISED -
a	DRAWN	_	JN	REVISED -
	CHECKED	-	GLH	REVISED -
	DATE	-	05/08/2019	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

						R	AAI JOB NO	53417
			ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PRECAST PRESTRESSED CONCRETE DECK BEAM			DETAILS	TR 187	14-14118-00-BF	WASHINGTON	12	6
						CONTRACT	NO. 97	693
						<u> </u>		

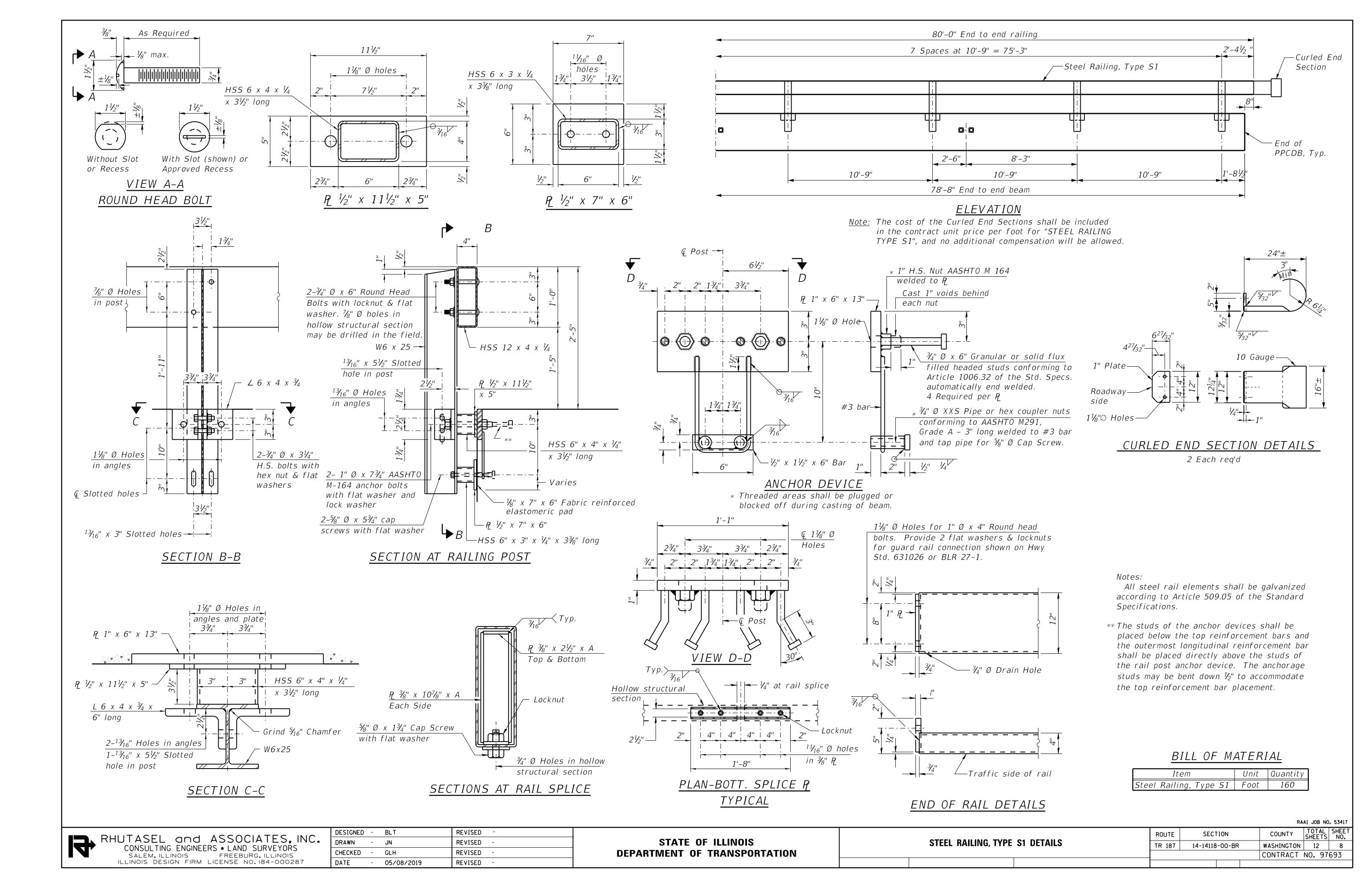


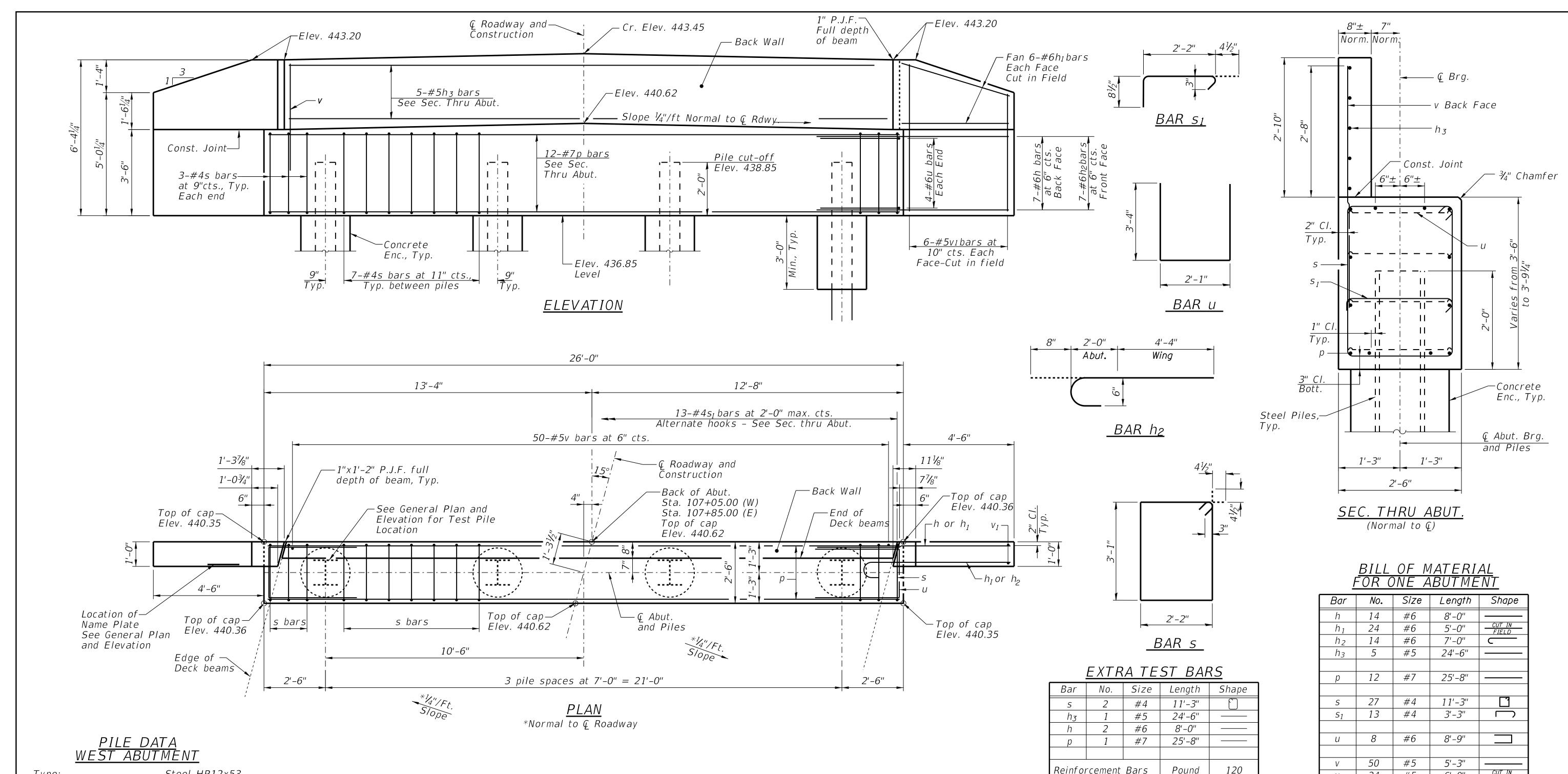
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CHECKED - GLH REVISED DATE - 05/08/2019 REVISED

DEPARTMENT OF TRANSPORTATION

WASHINGTON 12 7 CONTRACT NO. 97693





Steel HP12x53 Туре: Nominal Required Bearing: 418 kips Factored Resistance Available: 230 kips Estimated Length: 44'/pile No. Production Piles No. Test Piles

PILE DATA EAST ABUTMENT

Steel HP12x53 Nominal Required Bearing: 418 kips Factored Resistance Available: 230 kips Estimated Length: 44'/pile No. Production Piles No. Test Piles

<u>GENERAL NOTES</u>

Reinforcement bars shall conform to the requirements of ASTM A 706 Grade 60 (IL Modified).

All exposed edges shall have standard ¾" chamfer, unless otherwise noted or as directed by the Engineer.

All clearances between rebar and form surface shall be 2", unless otherwise noted.

Space reinforcement in cap to miss PPCDB dowel rods.

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

The position of the 90° & 135° hooked ends of the s₁bar shall be alternated between adjacent bars.

The Contractor shall drive one (1) Test Pile of the size indicated in a permanent location as shown of the plans or as directed by the Engineer before ordering the remainder of the piles.

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

The back wall and portion of the wingwalls above the construction joint shall be cast against the in-place deck beams.

Bar	No.	Size	Length	Shape
h	14	#6	8'-0"	
h_1	24	#6	5'-0"	CUT IN FIELD
h ₂	14	#6	7'-0"	
h ₃	5	#5	24'-6"	
р	12	#7	25'-8"	
S	27	#4	11'-3"	<u> </u>
S ₁	13	#4	3'-3"	
И	8	#6	8'-9"	
V	50	#5	5'-3"	
V ₁	24	#5	6'-0''	<u>CUT IN</u> FIELD
Concret	te Struc	tures	Cu. Yd.	12.4
Concret	te Encas	sement	Cu. Yd.	1.4
Reinfor	Reinforcement Ba		Pound	2010*
Furnish	Furnishing Steel		W. Abut.	176
Piles, F	HP12x53	Foot	E. Abut.	132
Driving	. Piles	Foot	W. Abut.	176
		1 001	E. Abut.	132
Test Pi	le Steel	Each	W. Abut.	0
HP12x5	53	Lacri	E. Abut.	1

For details of piles and Concrete Encasement, see HP Pile Details sheet.

included in the Summary of Quantities for *Does not include test bars.

The Contractor shall cut test bars as directed by the Engineer (if required for transport, etc.) The cost for cutting the bars shall be included in Reinforcement Bars and no additional compensation will be allowed.

These bars shall be identical to and delivered

with the bars of the same mark listed on the

size on the job have different heat numbers,

bridge sheets. This chart assumes that all

bars of the same size on the job will have the same heat numbers. If bars of the same

then the Contractor shall supply additional

bars from other heat numbers for sampling

The weight of these extra bars has been

by the Engineer at no additional cost.

the project.

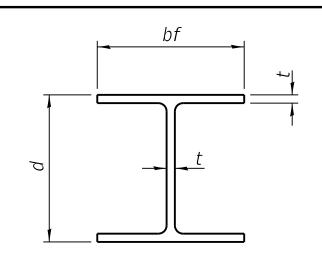
RAAI JOB NO. 53417

RHUTASEL and ASSOCIATES, INC CONSULTING ENGINEERS • LAND SURVEYORS SALEM, ILLINOIS FREEBURG, ILLINOIS ILLINOIS DESIGN FIRM LICENSE NO. 184-000287

)	DESIGNED	-	BLT	REVISED -
C.	DRAWN	_	JN	REVISED -
	CHECKED	-	GLH	REVISED -
	DATE	-	05/08/2019	REVISED -

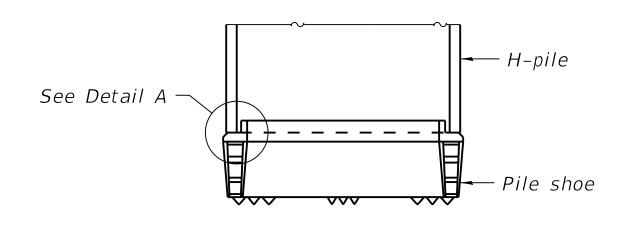
STATE OF ILLINOIS	
DEPARTMENT OF TRANSPORTATION	

	ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ABUTMENT DETAILS	TR 187	14-14118-00-BR	WASHINGTON	12	9
			CONTRACT	NO. 97	693

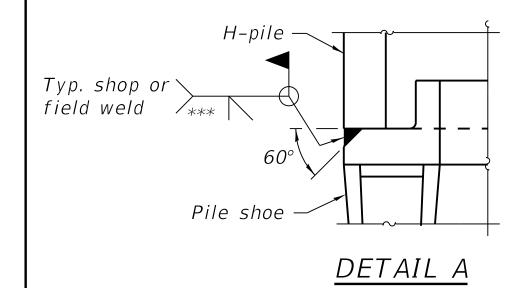


STEEL PILE TABLE

Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14½"	14 ⁷ / ₈ "	13/ ₁₆ "	30"
x102	14"	143/4"	¹ 1/ ₁₆ "	30"
x89	131/8"	143/4"	5/8"	30"
x73	135/8"	145/8"	1/2"	30"
HP 12x84	12½"	12½"	¹ 1/ ₁₆ "	24"
x74	12½"	12 ¹ / ₄ "	5/8"	24"
x63	12"	12½"	1/2"	24"
x53	1 1 3/4"	12"	7/ ₁₆ "	24"
HP 10x57	10"	101/4"	%16"	24"
x42	9¾"	10½"	7/ ₁₆ "	24"
HP 8x36	8"	<i>81</i> /8"	⁷ / ₁₆ "	18"



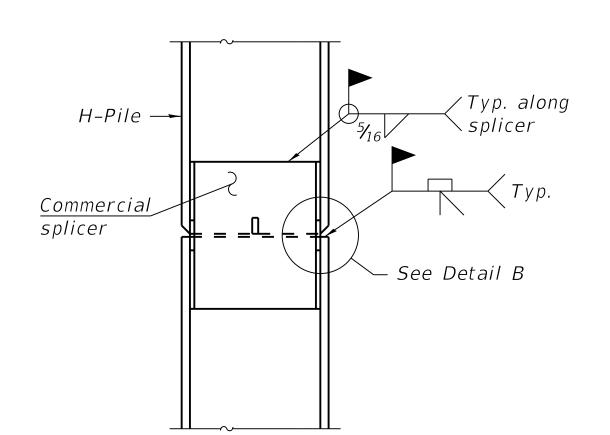
ELEVATION

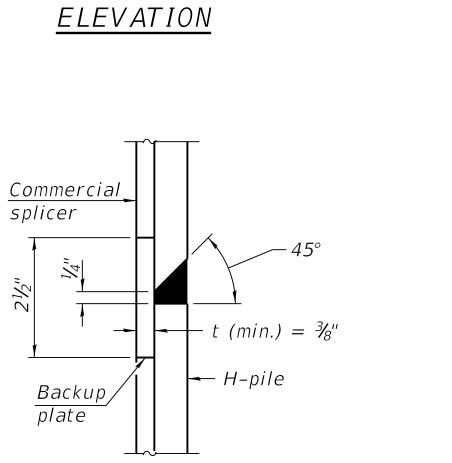


SHOE ATTACHMENT

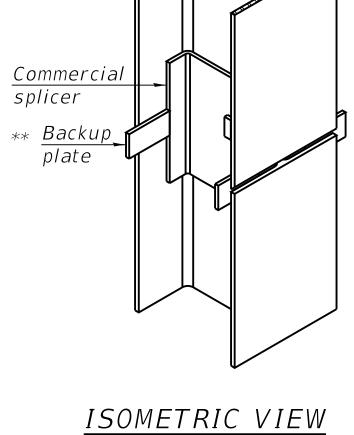
Note:

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



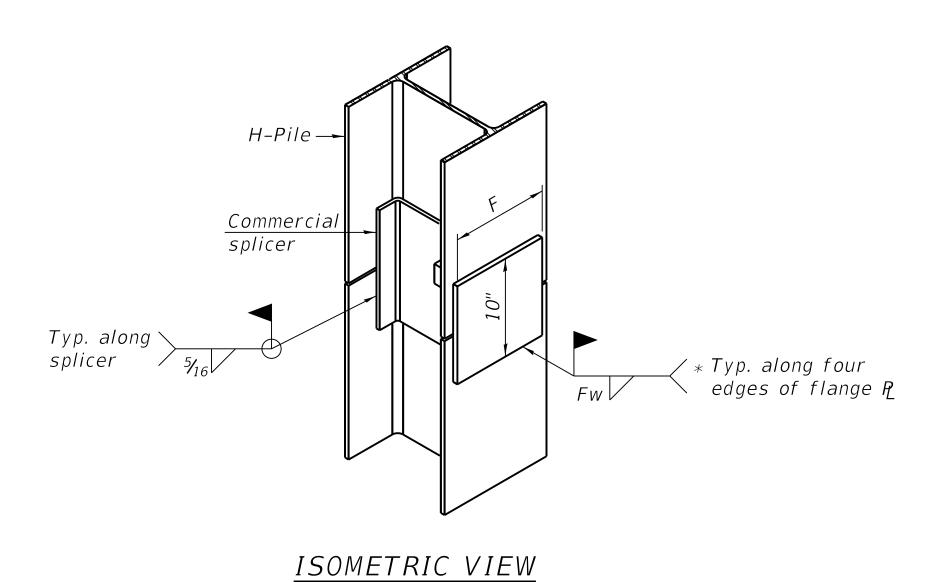


DETAIL "B"



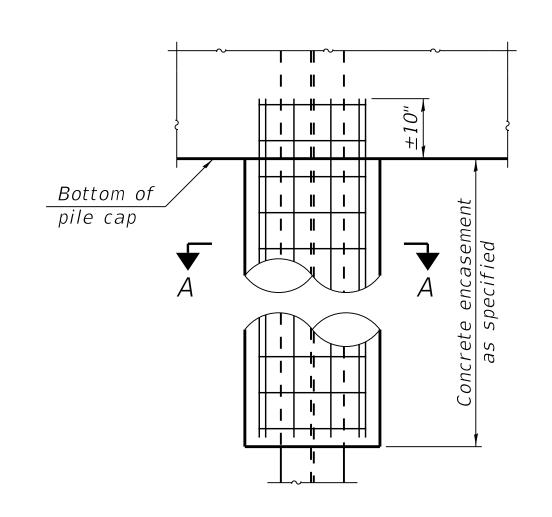
H-Pile →

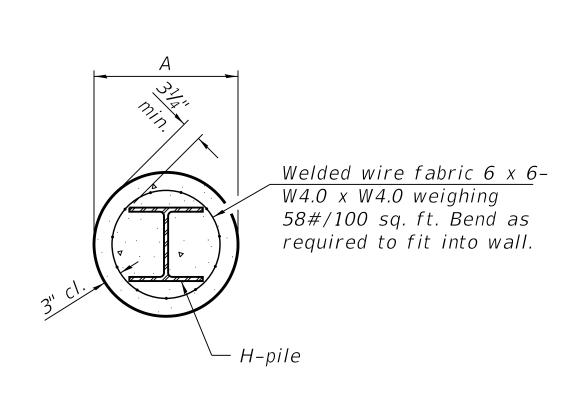
WELDED COMMERCIAL SPLICE



WELDED COMMERCIAL SPLICE ALTERNATE

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





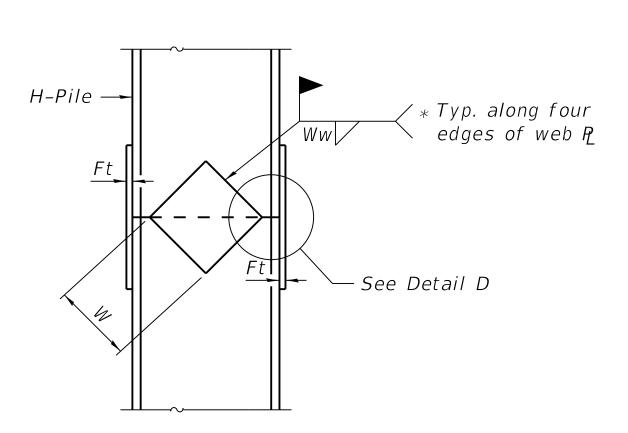
<u>ELEVATION</u>

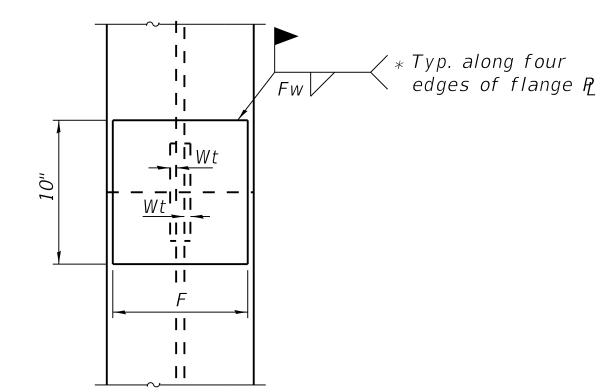
SECTION A-A

INDIVIDUAL PILE

CONCRETE ENCASEMENT

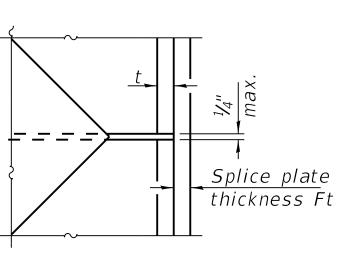
(Forms for encasement may be omitted when soil conditions permit).





ELEVATION

END VIEW



DETAIL D

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12½"	1"	7/8"	73/4"	5/8"	1/2"
x102	12½"	7/8"	3/4"	73/4"	5/8"	1/2"
x89	12½"	3/4"	¹ 1/ 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"	<i>51</i> / ₄ ''	1/2"	3/8"
HP 8x36	7"	5/8"	7/ ₁₆ "	4½"	1/2"	3/8"

WELDED PLATE FIELD SPLICE

RAAI JOB NO. 53417

RHUTASEL and ASSOCIATES, INC.

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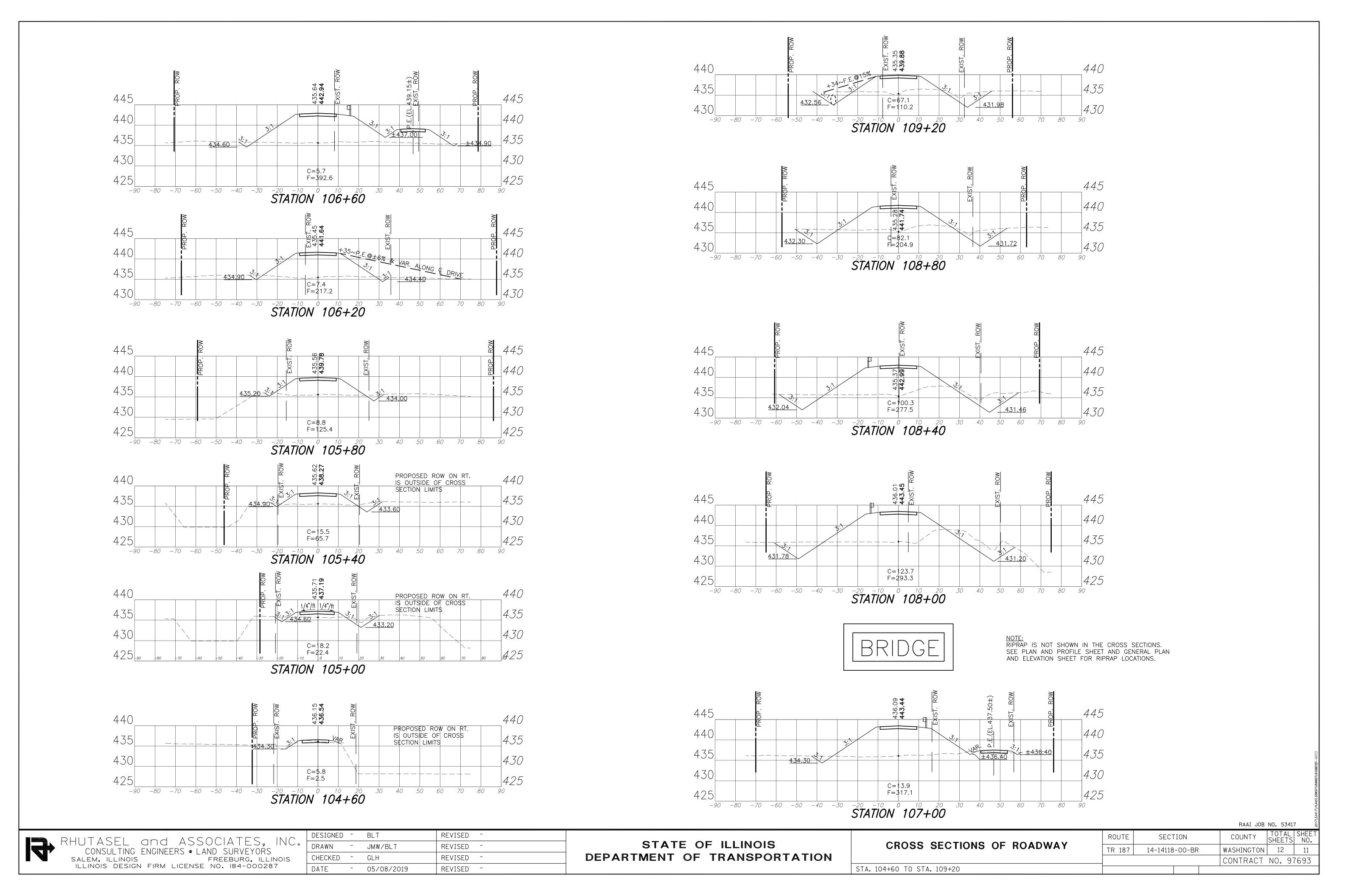
SALEM, ILLINOIS FREEBURG, ILLINOIS

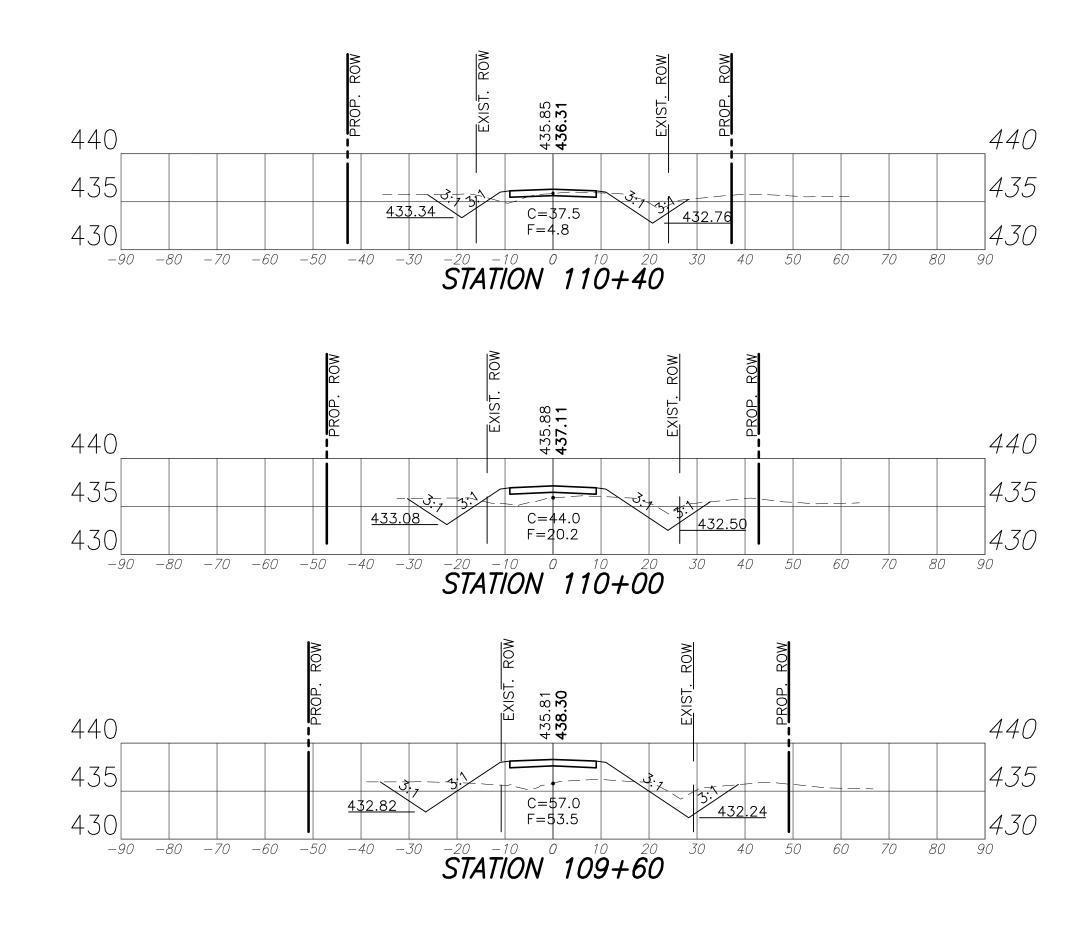
ILLINOIS DESIGN FIRM LICENSE NO. 184-000287

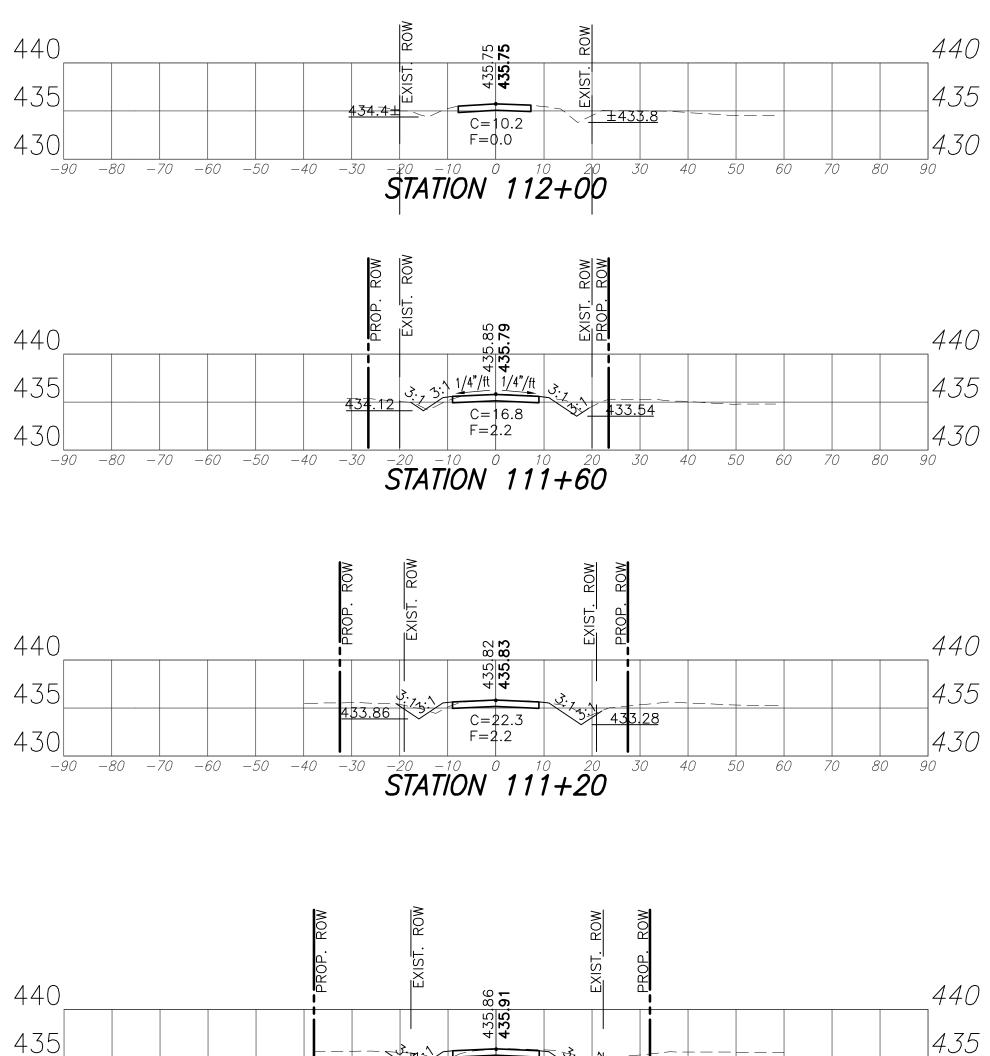
	DESIGNED	-	BLT	REVISED -
•	DRAWN	-	JN	REVISED -
	CHECKED	-	GLH	REVISED -
	DATE	-	05/08/2019	REVISED -

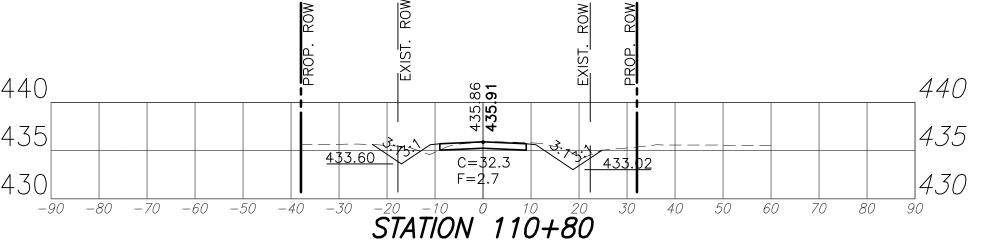
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HP PILE DETAILS	TR 187	14-14118-00-BR	WASHINGTON	12	10
			CONTRACT	NO. 97	693









RAAI JOB NO. 53417

WASHINGTON 12 12

CONTRACT NO. 97693

RHUTASEL and ASSOCIATES, INC.

CONSULTING ENGINEERS • LAND SURVEYORS

SALEM, ILLINOIS

ILLINOIS DESIGN FIRM LICENSE NO. 184-000287

	DESIGNED	-	BLT	REVISED -
- [DRAWN	-	JMW/BLT	REVISED -
	CHECKED	-	GLH	REVISED -
	DATE	-	05/08/2019	REVISED -

CDOCC CECTIONS OF BOADWAY	ROUTE	SECTION	
CROSS SECTIONS OF ROADWAY	TR 187	7 14-14118-00-BR	
STA. 109+60 TO STA. 112+00			