

03-09-2018 LETTING ITEM 130

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 17	12-01205-00-BR	UNION	26	1
FED. ROAD DIST. NO.		ILLINOIS CONTRACT NO. 99594		

INDEX OF SHEETS

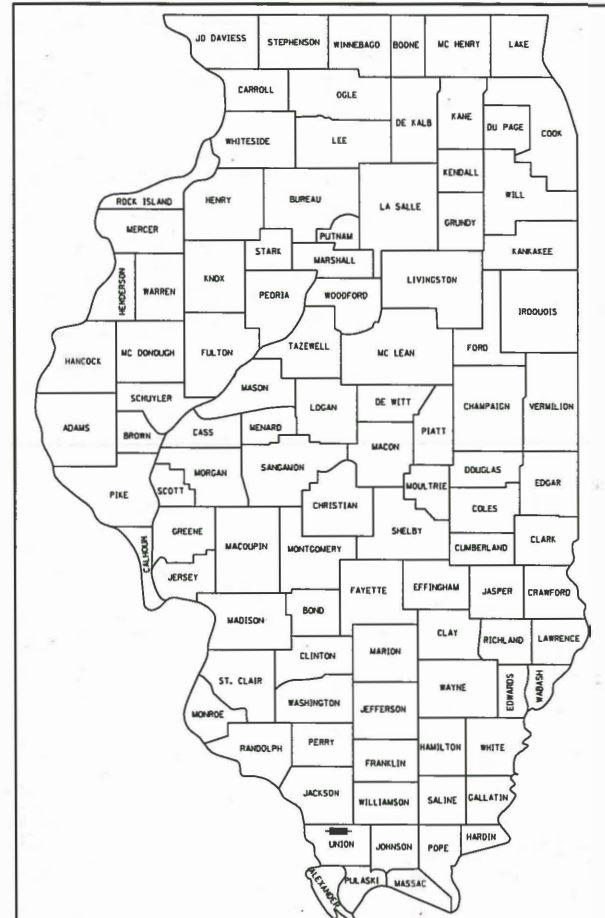
SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	SUMMARY OF QUANTITIES AND GENERAL NOTES
3.	TYPICAL CROSS SECTIONS
4.	PLAN AND PROFILE
5-12.	BRIDGE PLANS
13.	BORINGS
14-26.	STATION CROSS SECTIONS

HIGHWAY STANDARDS:

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
515001-03	NAME PLATE FOR BRIDGES
701901-07	TRAFFIC CONTROL DEVICES
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

PLANS FOR PROPOSED
SURFACE TRANSPORTATION PROGRAM
OFF SYSTEM BRIDGE

PROJECT JNJK(393)
SECTION 12-01205-00-BR
COUNTY UNIT ROAD DISTRICT
UNION COUNTY
T.R. 17 / ALTO WATERWORKS ROAD
PROPOSED STRUCTURE NO. 091-3245
C-99-524-13



LOCATION OF SECTION INDICATED THIS: - [Symbol]

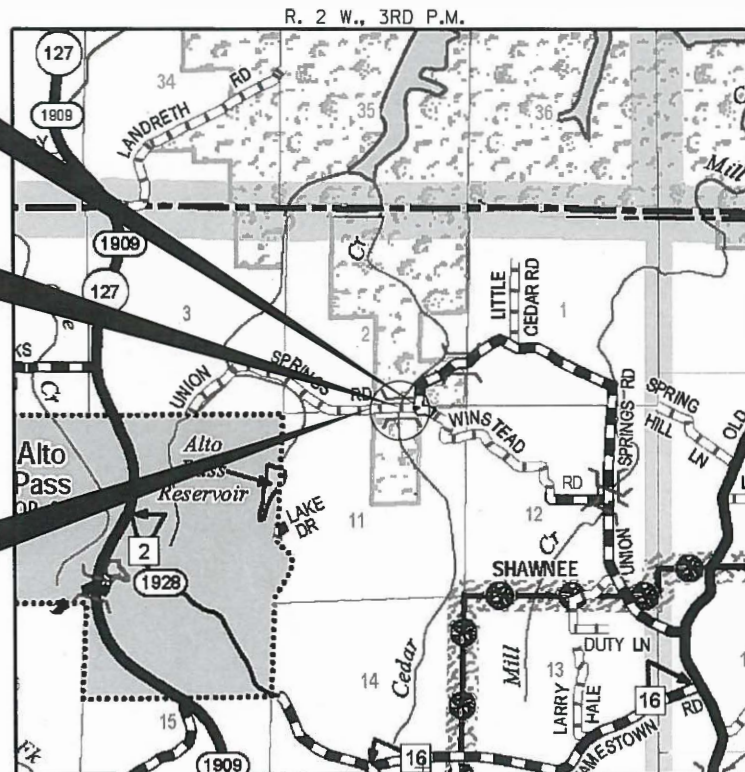
UTILITIES

FRONTIER COMMUNICATIONS
208 W UNION
MARION, IL 62959

STA. 9+98
PRECAST PRESTRESSED CONCRETE DECK BEAM
BRIDGE. SINGLE SPAN @ 47'-0"
24'-0" RDWY.; SKEW = 20°
EXISTING STRUCTURE NO. 091-3138
PROPOSED STRUCTURE NO. 091-3245

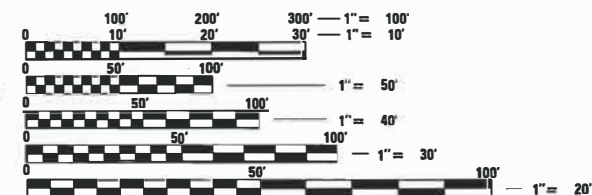
IMPROVEMENT ENDS
STATION 11+00

IMPROVEMENT BEGINS
STATION 8+50



LOCATION MAP

APPROXIMATE SCALE: 0 1/2 MILE
NET LENGTH OF SECTION = 250 FEET = 0.047 MILES



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.

FUNCTIONAL CLASSIFICATION: LOCAL ROAD < 250 ADT
DESIGN SPEED: 30 MPH
DESIGN TRAFFIC: 50 ADT



ILLINOIS DEPARTMENT OF TRANSPORTATION

APPROVED December 27, 2017

Kevin Hammer
COUNTY ENGINEER

APPROVED Dec. 29, 2017

TOWNSHIP COMMISSIONER

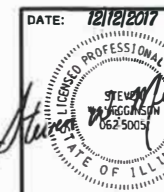
PASSED 12/29, 2017

De W. Hulsh
DISTRICT NINE ENGINEER OF
LOCAL ROADS & STREETS

Releasing For
BID Based on
Limited Review

12/29, 2017
Jeffrey L. Keen
DEPUTY DIRECTOR OF HIGHWAYS

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



HAMPTON, LENZINI AND RENWICK, INC.
CIVIL ENGINEERS - STRUCTURAL ENGINEERS - LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
217.546.3400 www.hirengineering.com

184.00959
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION

EXPIRES: 11/30/2019

PROJECT NUMBER: 16.0088.130

DATE: 12/12/17

CONTRACT NO. 99594 PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	UNIT	TOTAL
			CONSTRUCTION TYPE CODE 0011
20200100	EARTH EXCAVATION	CU YD	180
A 20200200	ROCK EXCAVATION	CU YD	3.6
20300100	CHANNEL EXCAVATION	CU YD	170
20900110	POROUS GRANULAR BACKFILL	CU YD	110
A 28100807	STONE DUMPED RIPRAP, CLASS A4	TON	115
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	240
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	65.4
50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	1,128
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	11,890
* 50900205	STEEL RAILING, TYPE S1	FOOT	91
51201400	FURNISHING STEEL PILES HP10X42	FOOT	80
51500100	NAME PLATES	EACH	1
67100100	MOBILIZATION	LSUM	1
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
A X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.1
A Z0065000	SETTING PILES IN ROCK	EACH	8

A SEE SPECIAL PROVISIONS

* SPECIALTY ITEMS

GENERAL NOTES

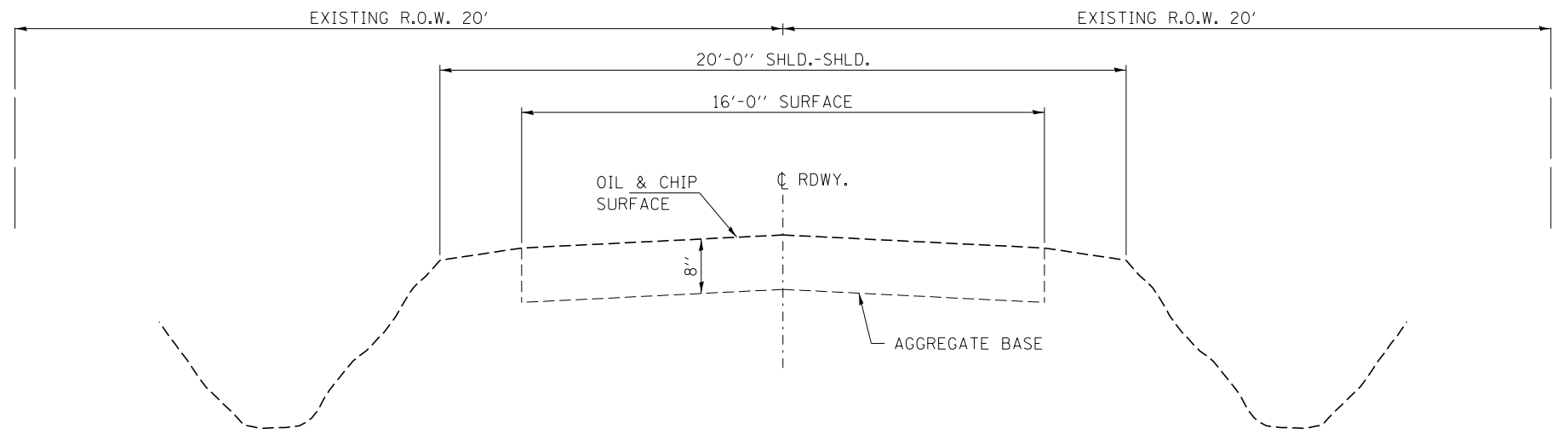
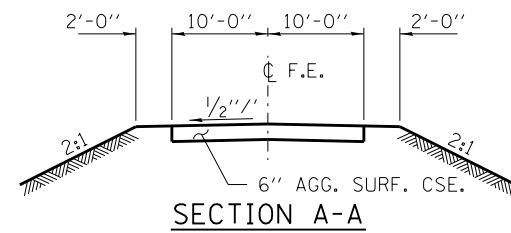
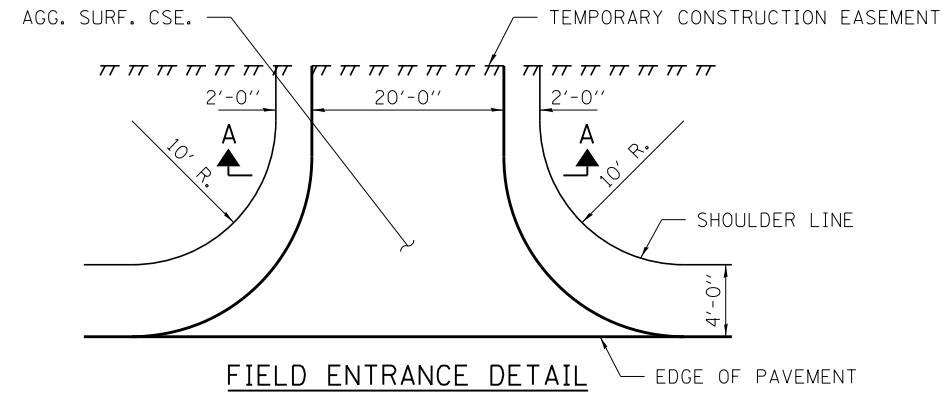
- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED APRIL 1, 2016," THESE PLANS AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- ALL CLEARING AND GRUBBING, FENCE REMOVAL, STUMP REMOVAL, AND REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. THE REMOVAL AND DISPOSAL OF EXISTING AGGREGATE PAVEMENT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE LOCATION OF EXISTING GAS MAINS, ELECTRIC POWER LINES, TELEPHONE LINES AND OTHER UTILITIES AS SHOWN ON THE PLANS ARE BASED ON CAREFUL FIELD INVESTIGATIONS AND THE BEST INFORMATION AVAILABLE, BUT THE LOCATIONS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE INDIVIDUAL UTILITY COMPANIES AND BY FIELD INSPECTION.
- WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

AGGREGATE SURFACE COURSE	2.05 TON/CU YD
STONE DUMPED RIPRAP	1.50 TON/CU YD
POROUS GRANULAR BACKFILL	2.05 TON/CU YD
- THE AREA TO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY AS DIRECTED BY THE ENGINEER.
ESTIMATED QUANTITY: SEEDING, CLASS 2 (SPECIAL) = 0.1 ACRES
- COMMITMENTS:
 - TREES SHALL NOT BE CLEARED BETWEEN APRIL 1 TO SEPTEMBER 30.
 - A BAT ASSESSMENT SHALL BE CONDUCTED IF WORK OCCURS TO EXISTING STRUCTURE AFTER AUGUST 15, 2018.

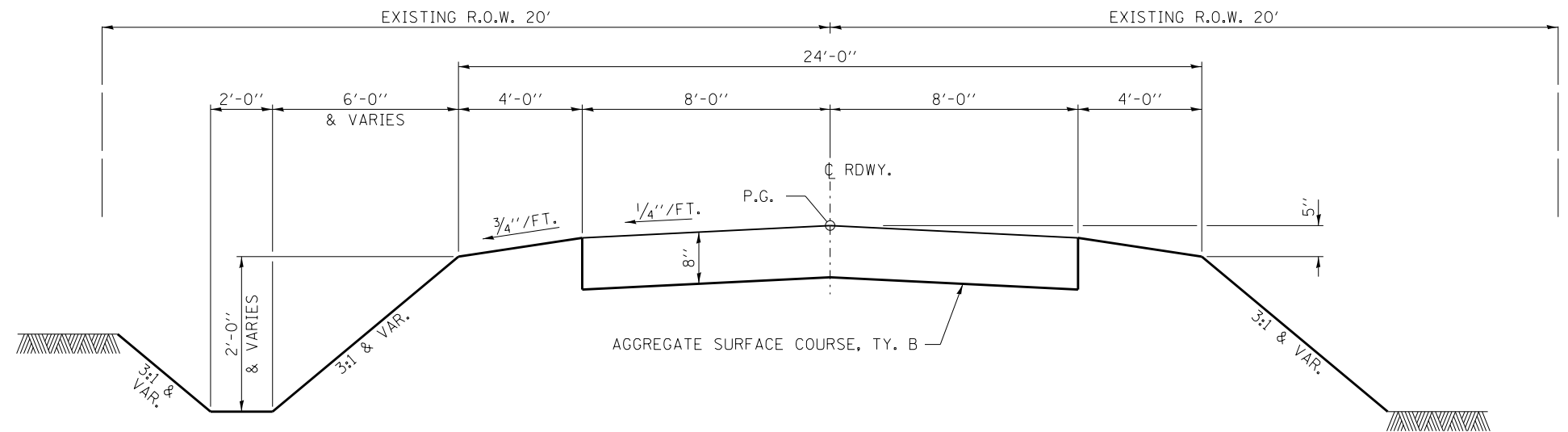
EARTHWORK SCHEDULE							
LOCATION	EARTH EXCAVATION	CHANNEL EXCAVATION	SHRINKAGE FACTOR	PERCENT USED	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT REQUIRED	EARTHWORK BALANCE
	20200100	20300100					
	CU.YD.	CU.YD.			CU.YD.	CU.YD.	CU.YD.
TR 17 / ALTO WATERWORKS ROAD							
STA 8+50 TO STA 9+73.79	131		25.00%	100.00%	98	58	40
STA 9+73.79 TO STA 10+22.21		170	25.00%	70.00%	89		89
STA 10+22.21 TO STA 11+00	49		25.00%	100.00%	37	2	35
TOTAL	180	170			224	60	164
USE	180	170					164

WASTE EXCAVATION 164 CU YDS

FILE NAME = 160098-sht-summary.dgn	USER NAME = rhosiek	DESIGNED - L.A.P.	REVISED -	STATE OF ILLINOIS UNION COUNTY HIGHWAY DEPARTMENT	SUMMARY OF QUANTITIES AND GENERAL NOTES				T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3945 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = 5/8"=1'-0"	DRAWN - R.D.H.	REVISED -						17	12-01205-00-BR	UNION	26	2
ILLINOIS PROFESSIONAL DESIGN FIRM 15 / PE / SE CONF. 184-000959	PLOT DATE = 12/13/2017	CHECKED - S.W.M.	REVISED -		COUNTY UNIT ROAD DISTRICT CONTRACT NO. 99594								
		DATE - 12/12/17	REVISED -		SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	[ILLINOIS] FED. AID PROJECT JNJK1393				



EXISTING TYPICAL CROSS SECTION
STA. 8+50 TO 11+00



PROPOSED TYPICAL CROSS SECTION
STA. 8+50 TO 11+00

SUGGESTED CUT SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

SUGGESTED FILL SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

FILE NAME = 160088-sht-typsections.dgn	USER NAME = rhosick	DESIGNED - L.A.P.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - R.D.H.	REVISED -
	PLOT SCALE = *SCALE*	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 12/13/2017	DATE - 12/12/17	REVISED -

STATE OF ILLINOIS
UNION COUNTY HIGHWAY DEPARTMENT

TYPICAL CROSS SECTIONS			
SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

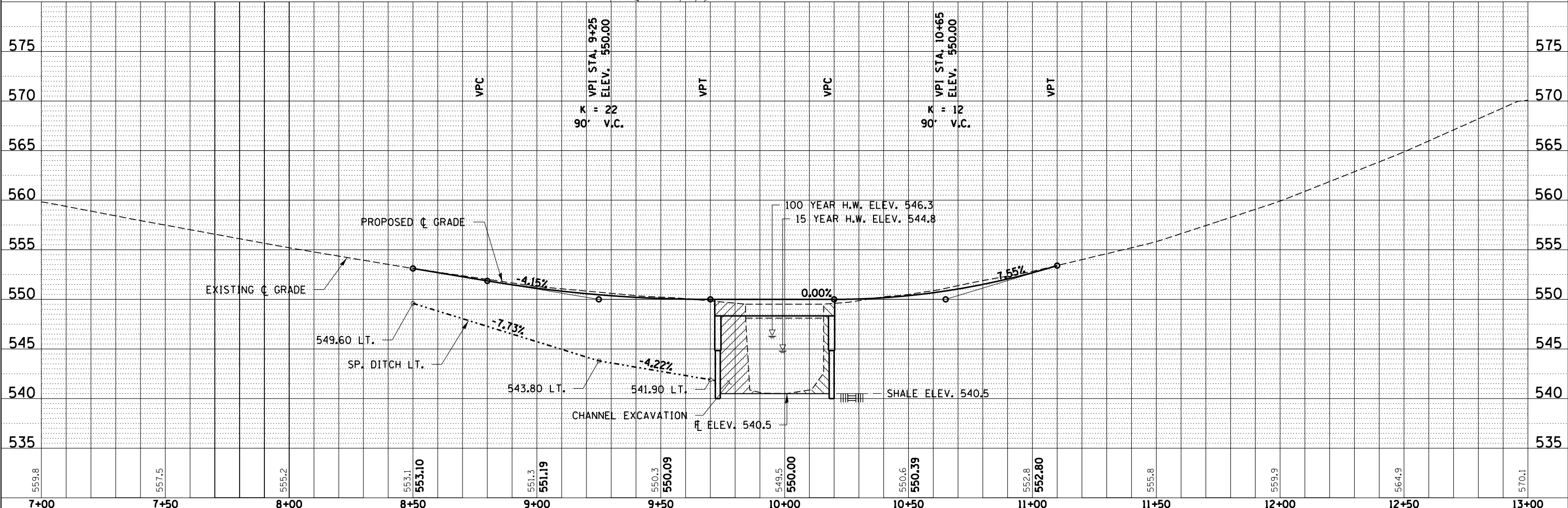
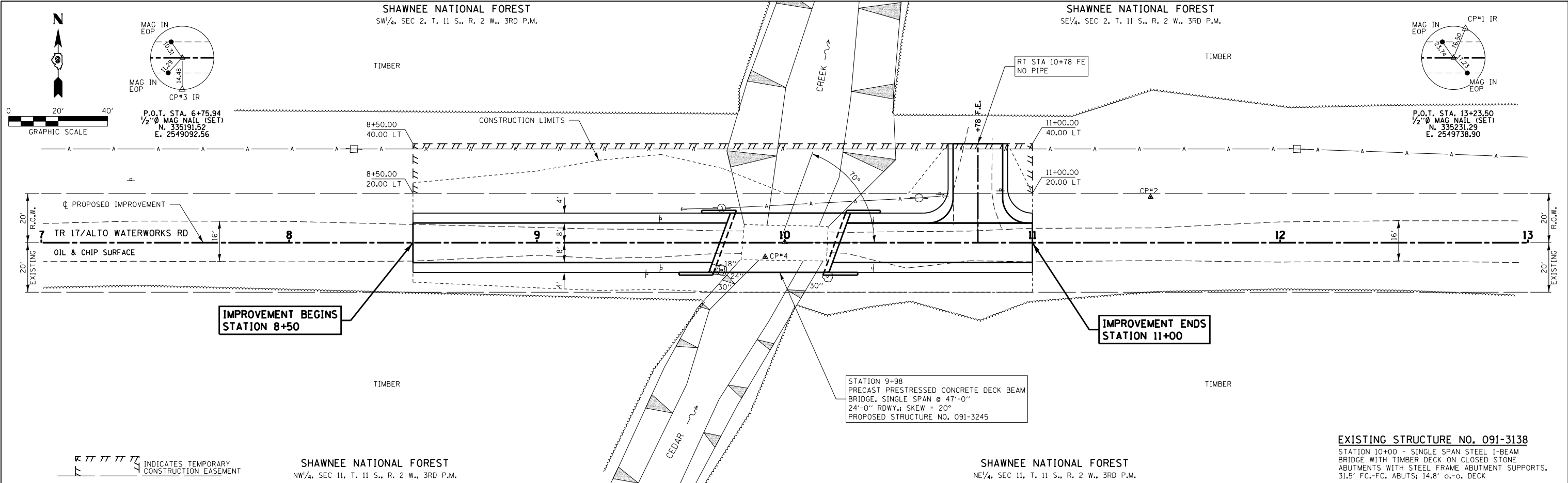
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	12-01205-00-BR	UNION	26	3
COUNTY UNIT ROAD DISTRICT			CONTRACT NO. 99594	
ILLINOIS FED. AID PROJECT JNJK1393				

SHAWNEE NATIONAL FOREST
SW/4, SEC 2, T. 11 S., R. 2 W., 3RD P.M.

SHAWNEE NATIONAL FOREST
SE/4, SEC 2, T. 11 S., R. 2 W., 3RD P.M.

SHAWNEE NATIONAL FOREST
NW/4, SEC 11, T. 11 S., R. 2 W., 3RD P.M.

SHAWNEE NATIONAL FOREST
NE/4, SEC 11, T. 11 S., R. 2 W., 3RD P.M.



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

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	NO. _____	
	STRUCTURE	
	NOT AT THIS OFFICE	

FILE NAME = 160088-sht-plnprf.dgn	USER NAME = rhosick	DESIGNED - L.A.P.	REVISIONS	STATE OF ILLINOIS	PLAN & PROFILE	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN - L.G.C.	REVISIONS	UNION COUNTY HIGHWAY DEPARTMENT	ALTO WATERWORKS ROAD	17	12-01205-00-BR	UNION	26	4
		CHECKED - S.W.M.	REVISIONS			COUNTY UNIT ROAD DISTRICT			CONTRACT NO. 99594	
		DATE = 12/12/17	REVISIONS			SCALE: 20H:5V	SHEET NO. 1 OF 1 SHEETS	STA. 7+00.00 TO STA. 13+00.00	ILLINOIS FED. AID PROJECT JNJK(393)	

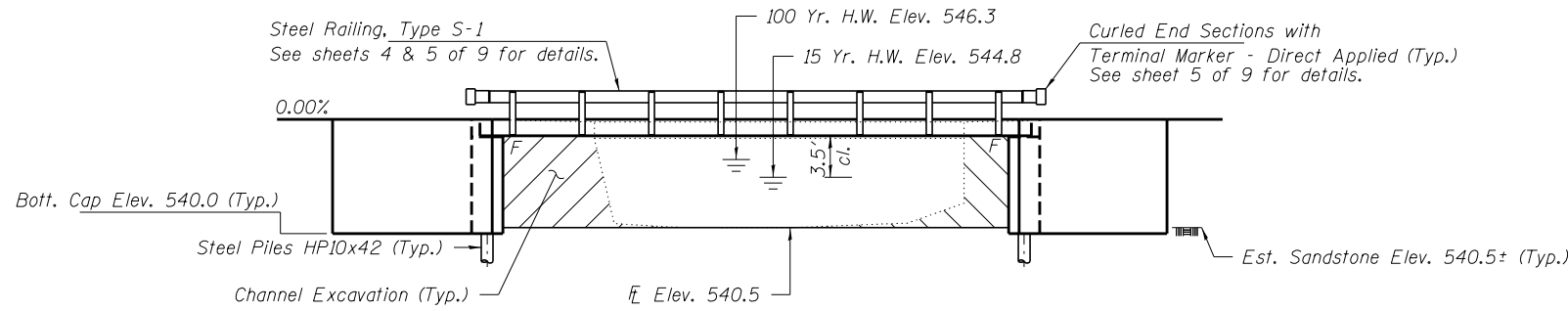
EXISTING STRUCTURE NO. 091-3138: Single span steel I-beam bridge with timber deck on closed stone abutments with steel frame abutment supports. 31.5' fc.-fc. abuts.; 14.8' o.-o. deck.

Structure closed to traffic during construction.

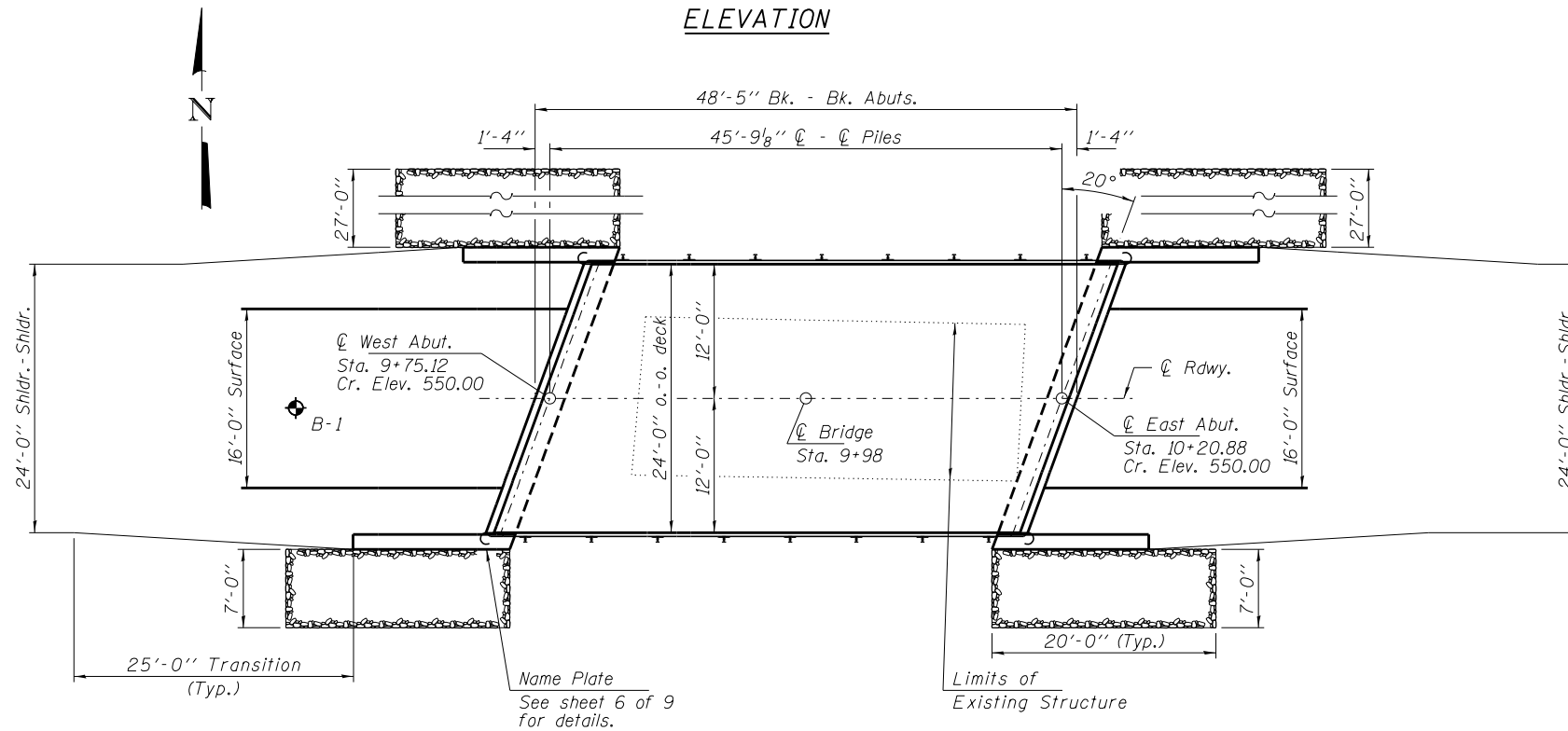
Contractor shall salvage I-beams for county.

GENERAL NOTES

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 Reinforcement bars designated (E) shall 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. Rock excavation shall be paid for.
 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.



ELEVATION



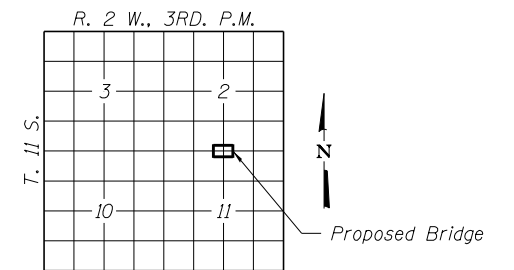
PLAN

INDEX OF STRUCTURE SHEETS

1. General Plan & Elevation
2. 17"x48" PPC Deck Beam
3. 17"x48" PPC Deck Beam Details
4. Superstructure Details
5. Steel Railing, Type S-1
6. Abutments
7. Abutment Details
8. HP Pile Details
9. Borings

CEGAR CREEK
 BUILT 201_ BY
 UNION COUNTY
 SEC. 12-01205-00-BR
 COUNTY UNIT ROAD DISTRICT
 STR. NO. 091-3245
 LOADING HL-93

NAME PLATE
 See Std. 515001



LOCATION SKETCH

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

FIELD UNITS

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

PRECAST PRESTRESSED UNITS

f'c = 6,000 psi
 f'ci = 5,000 psi
 fpu = 270,000 psi (1/2" low lax. strands)
 fpbt = 201,960 psi (1/2" low lax. strands)
 fy = 60,000 psi (Reinf.)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 3
 Design Spectral Acceleration at 1.0 sec. (SD1) = 0.370g
 Design Spectral Acceleration at 0.2 sec. (SDS) = 0.964g
 Soil Site Class = C

WATERWAY INFORMATION

Drainage Area = 1.7 Sq. Mi.		Existing Low Grade Elev. 549.5 @ Sta. 10+00 Proposed Low Grade Elev. 550.0 @ Sta. 10+00								
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Natural H.W.E.		Head - Ft.		Headwater El.	
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	Exist.	Prop.
Design	15	1440	130	150	544.75	1.60	1.44	546.35	546.19	
Base	100	2530	170	210	546.29	3.96	3.44	550.25	549.73	
Scour Check	200	2980	190	230	546.81	3.86	3.46	550.67	550.27	
Existing Overtop	100	2980	190		546.81			550.67	546.81	
Proposed Overtop	100	2980		230	546.81		3.46	546.81	550.27	
Max Calc.	500	3630	210	260	547.44	3.65	3.33	551.09	550.77	

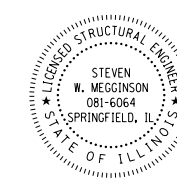
10 Year Velocity through Existing Bridge = 10.3 fps 10 Year Velocity through Proposed Bridge = 9.5 fps

DESIGN SCOUR ELEVATION TABLE

Event/Limit State	Design Scour Elevations (ft.)		Item
	W. Abut.	E. Abut.	
Q100	540.5	540.5	113
Q200	540.5	540.5	
Design	540.5	540.5	8
Check	540.5	540.5	

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

Steven W. Megginson 12/12/2017
 ILLINOIS STRUCTURAL ENGINEER NO. 081-6064



Expires 11-30-2018

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Rock Excavation	Cu. Yd.			3.6
Channel Excavation	Cu. Yd.			170
Porous Granular Backfill	Cu. Yd.			110
Stone Dumped Riprap, Class A4	Ton			115
Removal of Existing Structures	Each			1
Concrete Structures	Cu. Yd.		65.4	65.4
Precast Prestressed Concrete Deck Beams (17" Depth)	Sq. Ft.	1,128		1,128
Reinforcement Bars, Epoxy Coated	Pound		11,890	11,890
Steel Railing, Type S-1	Foot	91		91
Furnishing Steel Piles HP10x42	Foot		80	80
Name Plates	Each		1	1
Terminal Marker - Direct Applied	Each	4		4
Setting Piles in Rock	Each		8	8

FILE NAME = 160088-sht-bridge.dgn	USER NAME =	DESIGNED - L.A.P.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -
3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.009959	PLOT SCALE =	DRAWN - R.D.H.	REVISED -
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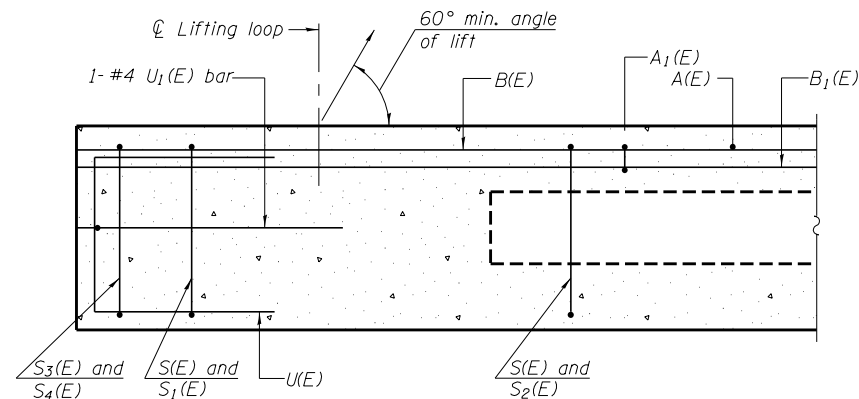
STATE OF ILLINOIS
 UNION COUNTY HIGHWAY DEPARTMENT

GENERAL PLAN & ELEVATION
 STRUCTURE NO. 091-3245

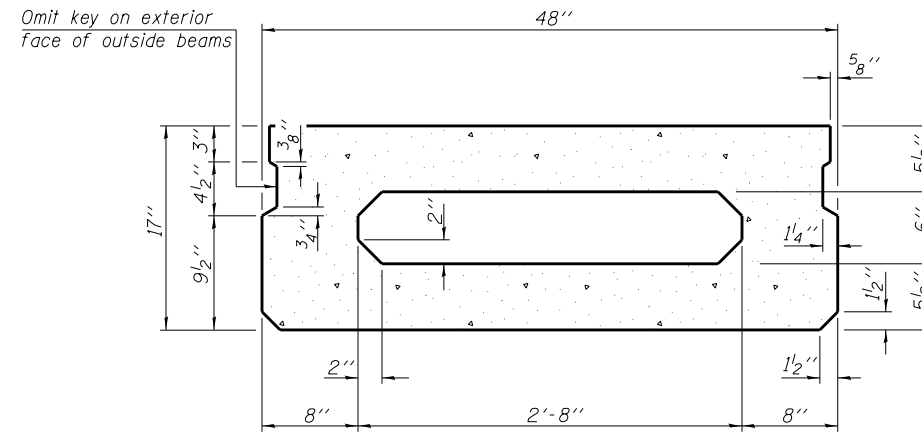
SHEET NO. 1 OF 9 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	12-01205-00-BR	UNION	26	5
COUNTY UNIT ROAD DISTRICT		CONTRACT NO. 99594		

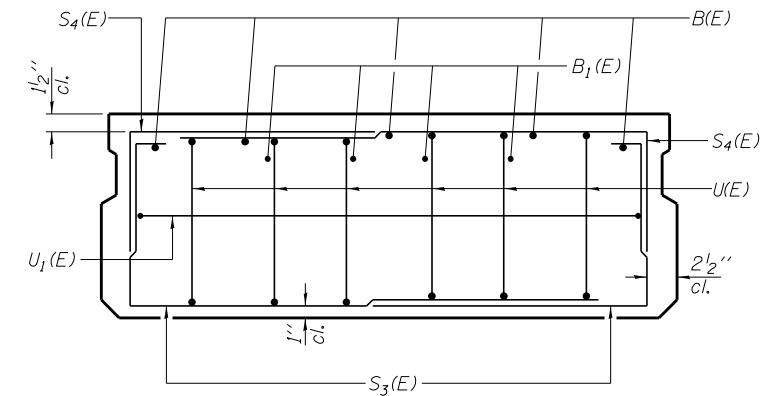
ILLINOIS FED. AID PROJECT JNK(393)



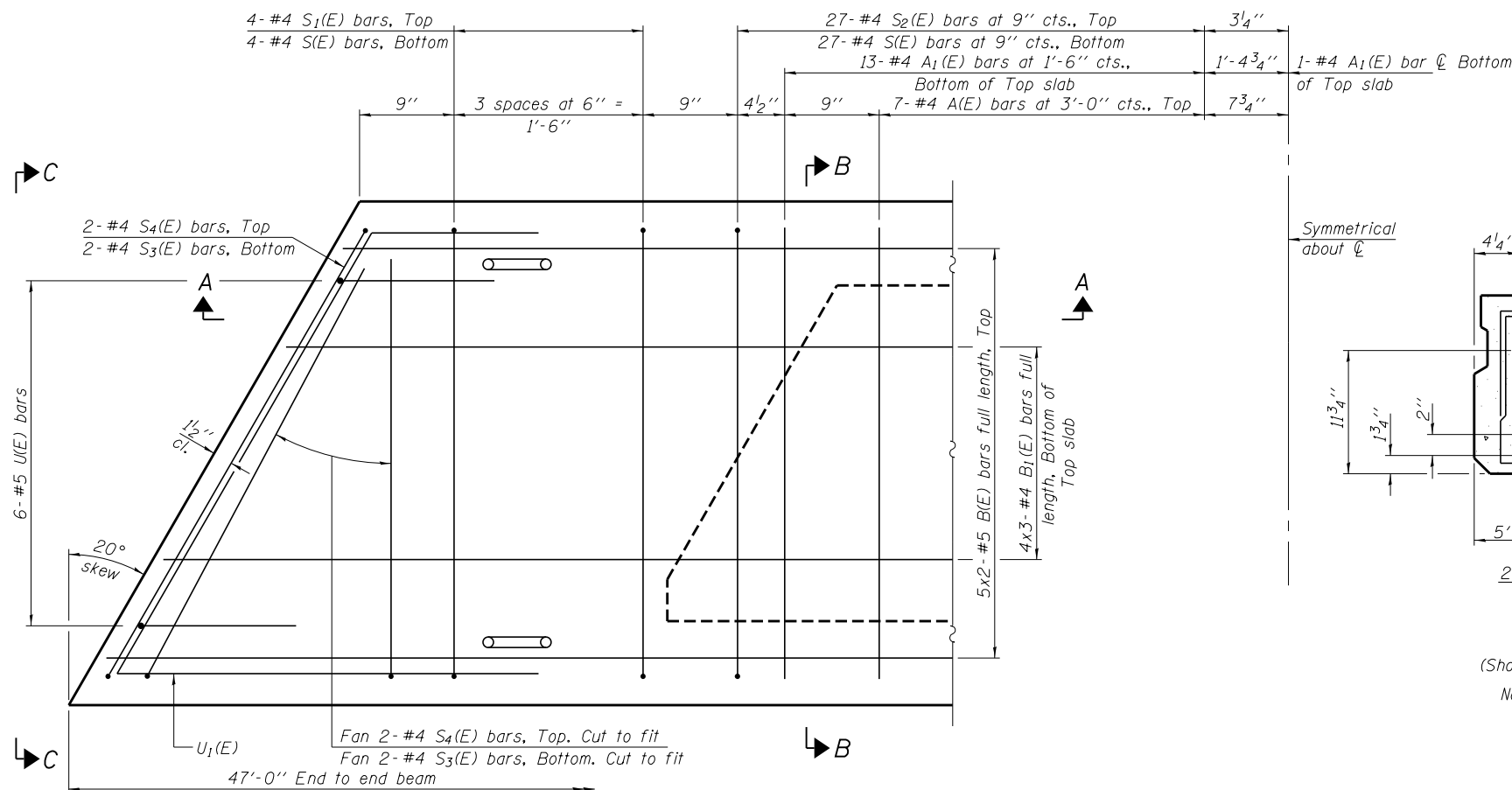
SECTION A-A



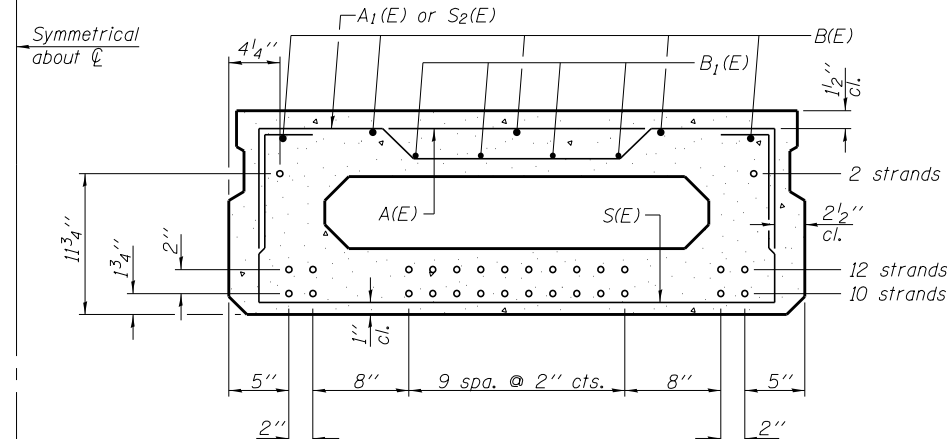
SECTION B-B
(Showing dimensions)



VIEW C-C



PLAN VIEW



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)	14	#4	3'-7"	—
A1(E)	27	#4	3'-10"	—
B(E)	10	#5	24'-8"	—
B1(E)	12	#4	16'-11"	—
S(E)	62	#4	6'-9"	□
S1(E)	8	#4	5'-3"	□
S2(E)	54	#4	5'-6"	□
S3(E)	8	#4	4'-6"	□
S4(E)	8	#4	3'-9"	□
U(E)	12	#5	3'-8"	□
U1(E)	2	#4	7'-6"	□

Note: See sheet 3 & 4 of 9 for additional details and Bill of Material.

MINIMUM BAR LAP

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

Notes:
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 5x2- #5 etc. indicates 5 lines of bars with 2 lengths per line.

PD-1748-L

06-01-16

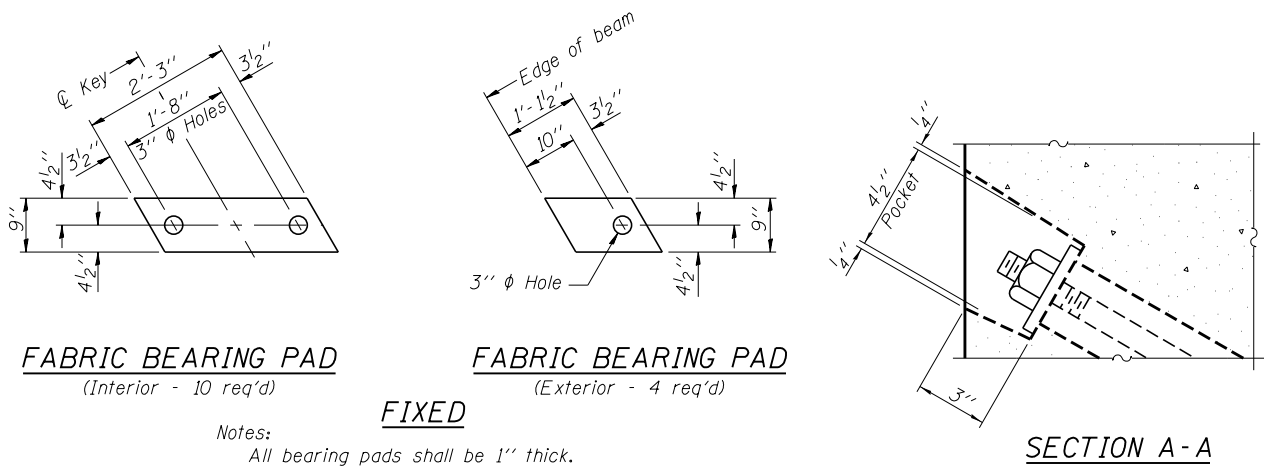
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HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 12/13/2017	DRAWN - R.D.H.	REVISED -
		CHECKED - S.W.M.	REVISED -

STATE OF ILLINOIS
UNION COUNTY HIGHWAY DEPARTMENT

17" x 48" PPC DECK BEAM
STRUCTURE NO. 091-3245

SHEET NO. 2 OF 9 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	12-01205-00-BR	UNION	26	6
COUNTY UNIT ROAD DISTRICT		CONTRACT NO. 99594		
ILLINOIS FED. AID PROJECT JNK(393)				

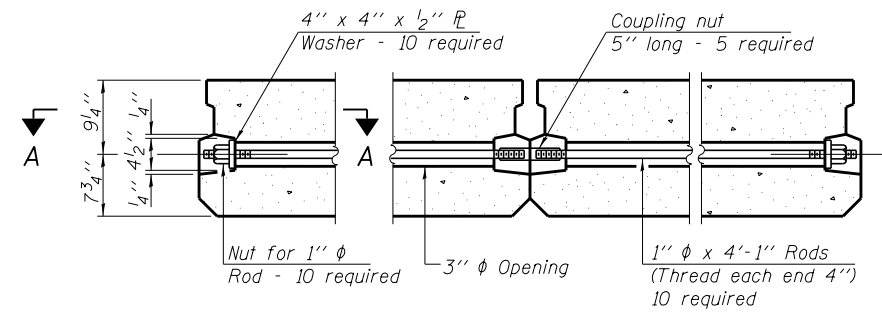


FABRIC BEARING PAD
(Interior - 10 req'd)

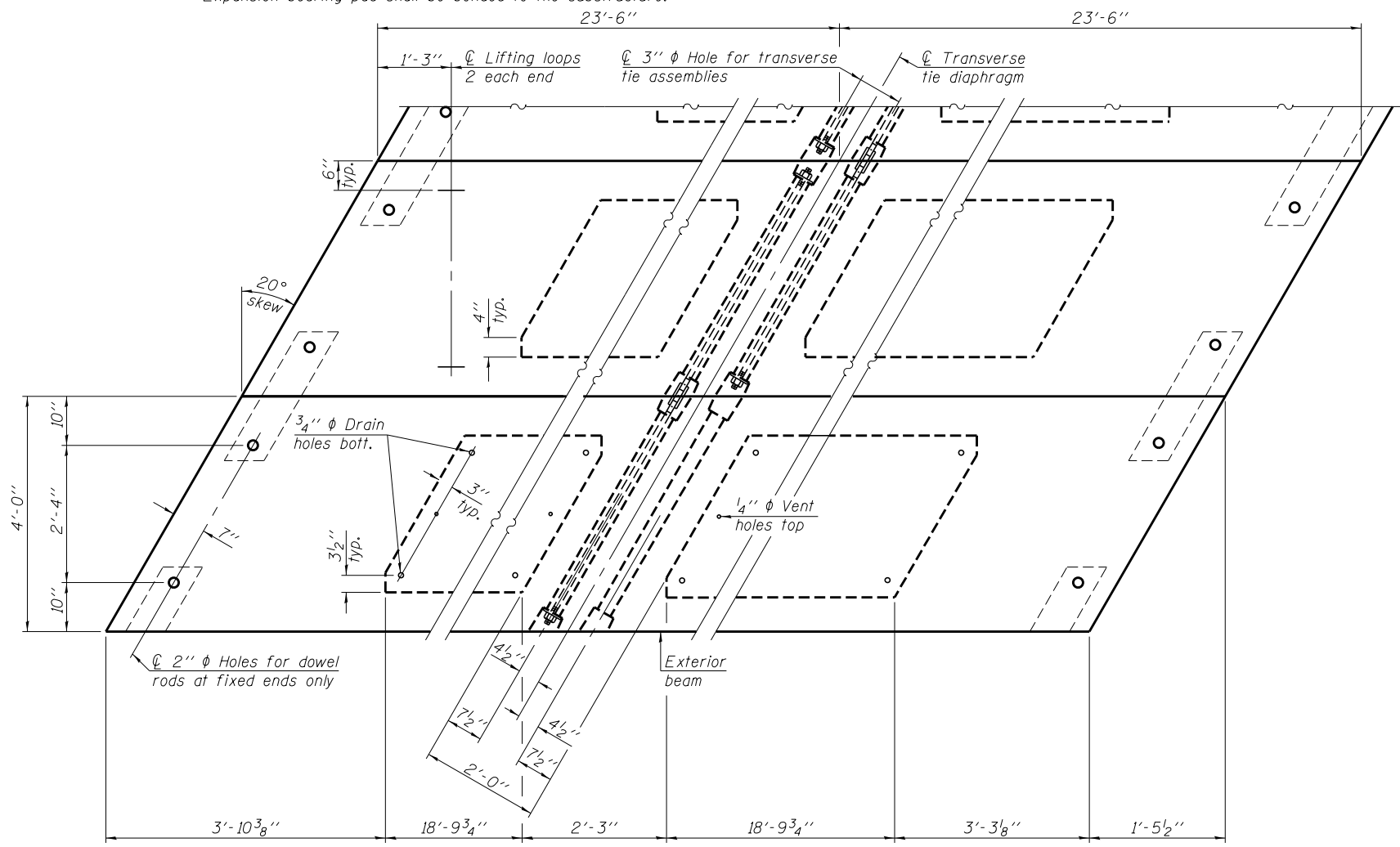
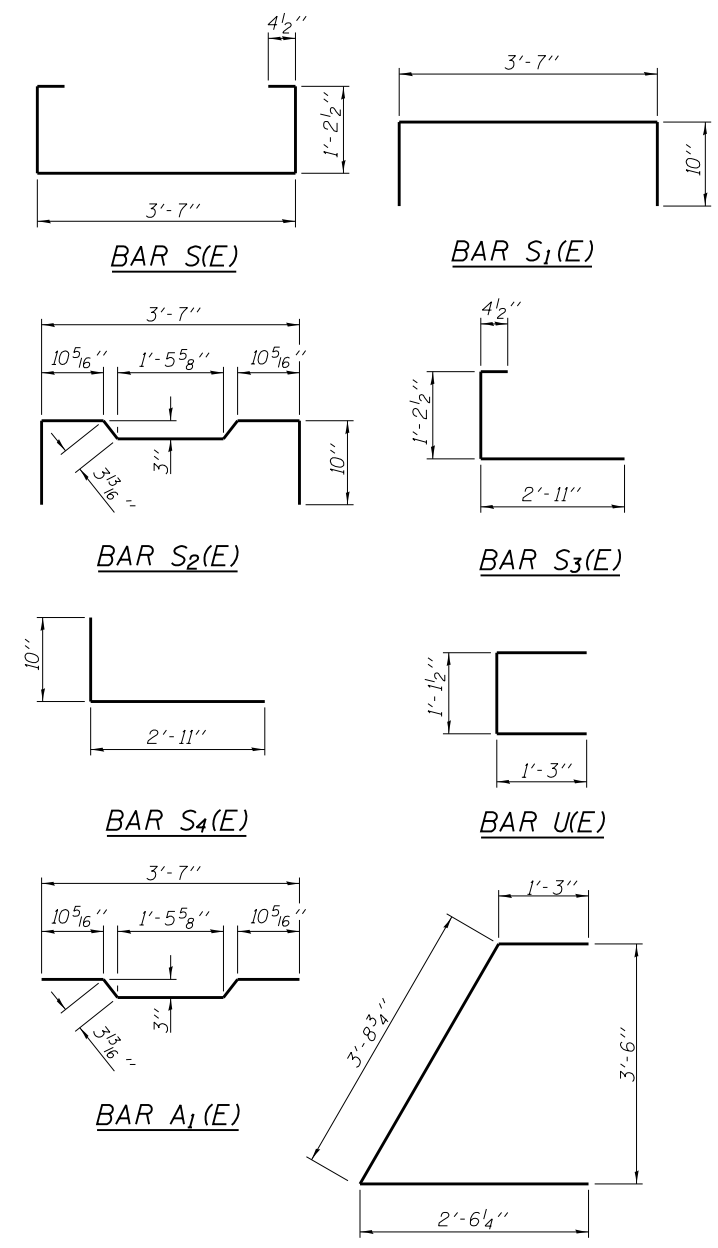
FABRIC BEARING PAD
(Exterior - 4 req'd)

SECTION A-A

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



TYPICAL TRANSVERSE TIE ASSEMBLY

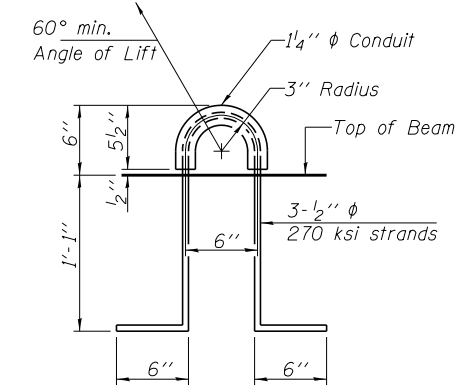


PLAN VIEW

NOTES

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

Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter shall be 1/2" and the nominal cross-sectional area shall be 0.153 sq. in. The 1" diameter rods in the transverse tie assembly shall be tightened to a snug fit and the threads set. Pockets on exterior faces of bridge shall be filled with grout after transverse tie assembly is in place. Two 1/8" fabric adjusting shims of the dimensions of the exterior bearing pad shall be provided for each bearing pad location. A minimum 2 1/2" diameter lifting pin shall be used to engage the lifting loops during handling. Corrosion Inhibitor, per Article 1020.05(b)(10) and 1021.07 of the Standard Specifications, shall be used in the concrete for precast prestressed concrete deck beams. Compressive strength of prestressed concrete, f'c, shall be 6000 psi. Compressive strength of prestressed concrete at release, f'ci, shall be 5000 psi. Reinforcement bars designated (E) shall be epoxy coated.



LIFTING LOOP DETAIL

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	1.128
---	---------	-------

PD-1748-LD 06-01-16

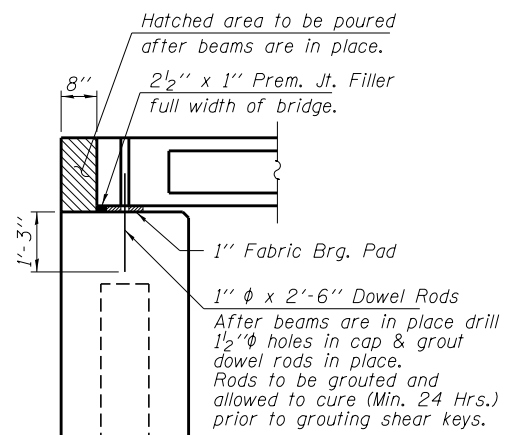
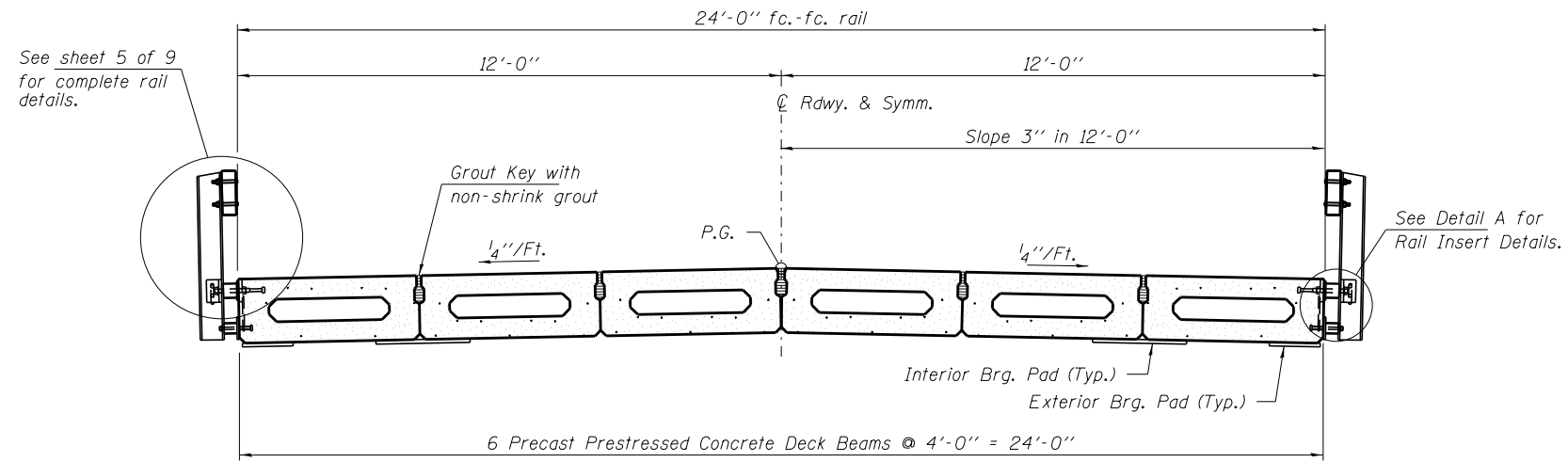
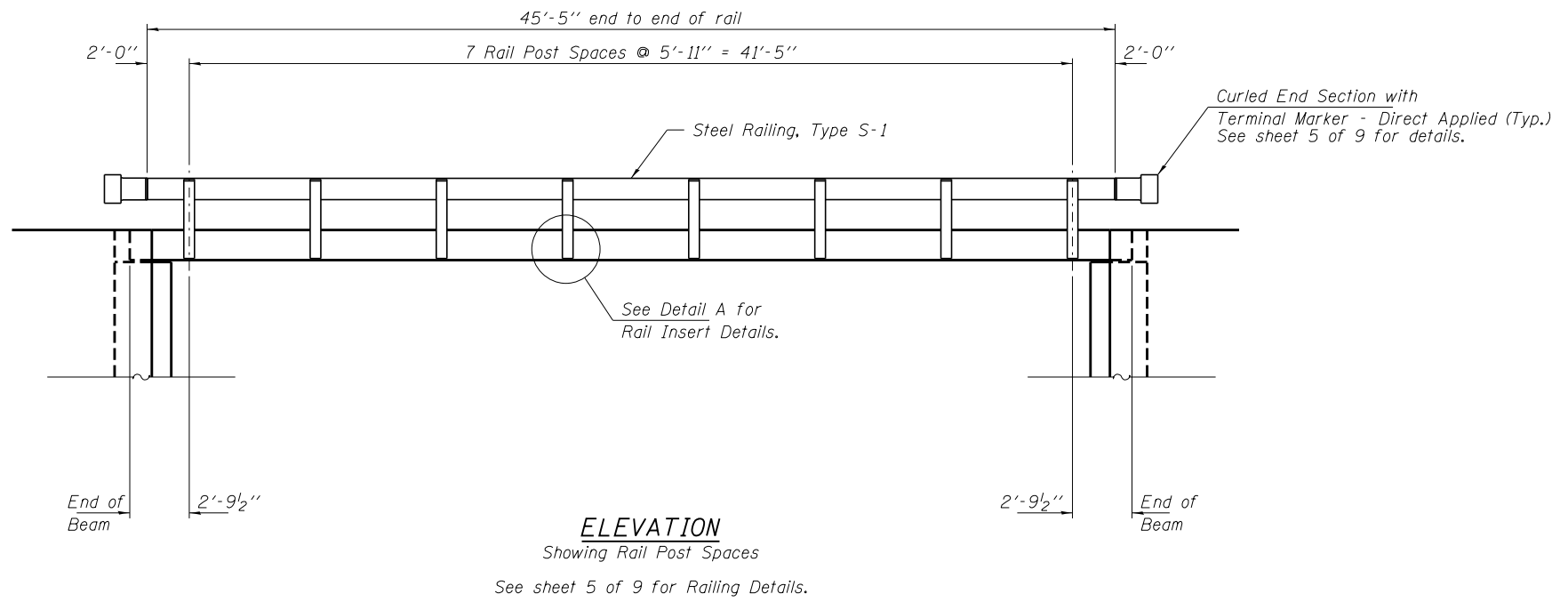
FILE NAME = 160088-sht-bridge.dgn	USER NAME =	DESIGNED - L.A.P.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 12/13/2017	DRAWN - R.D.H.	REVISED -
		CHECKED - S.W.M.	REVISED -

**STATE OF ILLINOIS
UNION COUNTY HIGHWAY DEPARTMENT**

**17" x 48" PPC DECK BEAM DETAILS
STRUCTURE NO. 091-3245**

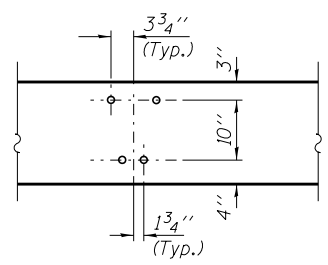
SHEET NO. 3 OF 9 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	12-01205-00-BR	UNION	26	7
COUNTY UNIT ROAD DISTRICT		CONTRACT NO. 99594		
ILLINOIS FED. AID PROJECT JNKJ(393)				



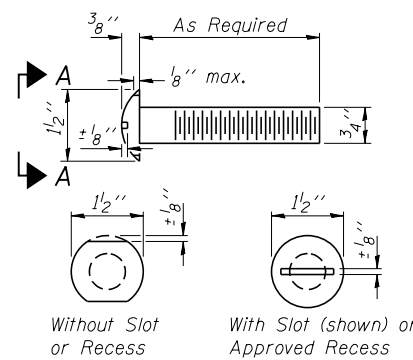
SECTION AT ABUTMENTS
 © Rt. L's

CROSS SECTION
 See sheets 2 & 3 of 9 for Superstructure.

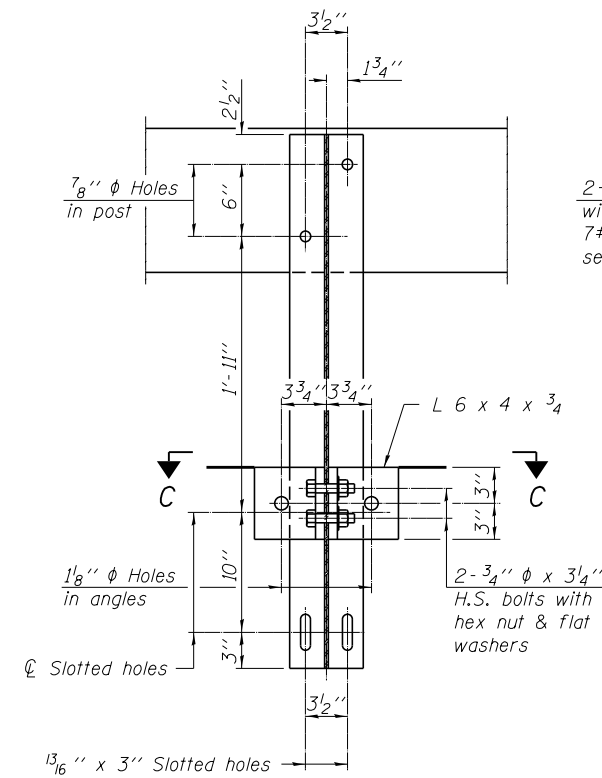
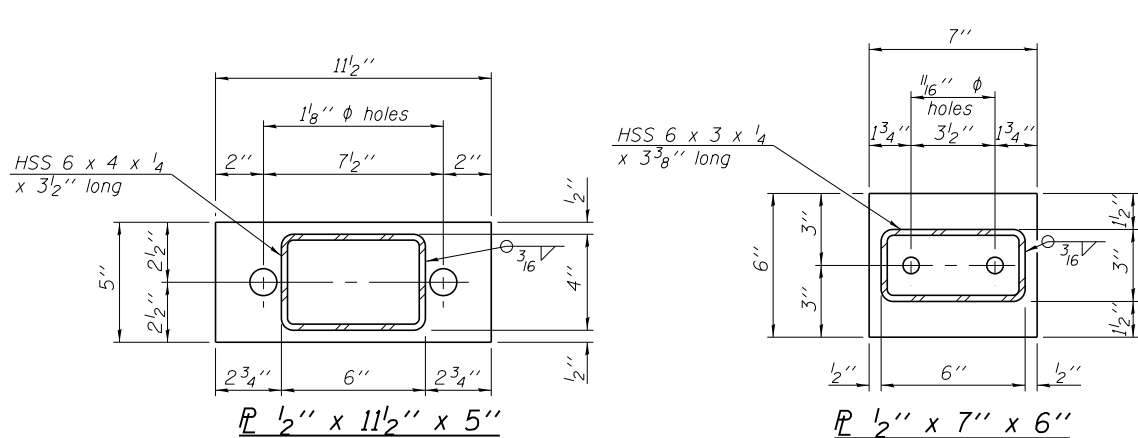


DETAIL A

FILE NAME = 160088-sht-bridge.dgn	USER NAME =	DESIGNED - L.A.P.	REVISED -	STATE OF ILLINOIS UNION COUNTY HIGHWAY DEPARTMENT	SUPERSTRUCTURE DETAILS STRUCTURE NO. 091-3245	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	CHECKED - S.W.M.	REVISED -			17	12-01205-00-BR	UNION	26	8
	PLOT DATE = 12/13/2017	DRAWN - R.D.H.	REVISED -			COUNTY UNIT ROAD DISTRICT		CONTRACT NO. 99594		
		CHECKED - S.W.M.	REVISED -			SHEET NO. 4 OF 9 SHEETS		ILLINOIS FED. AID PROJECT JNJK(393)		

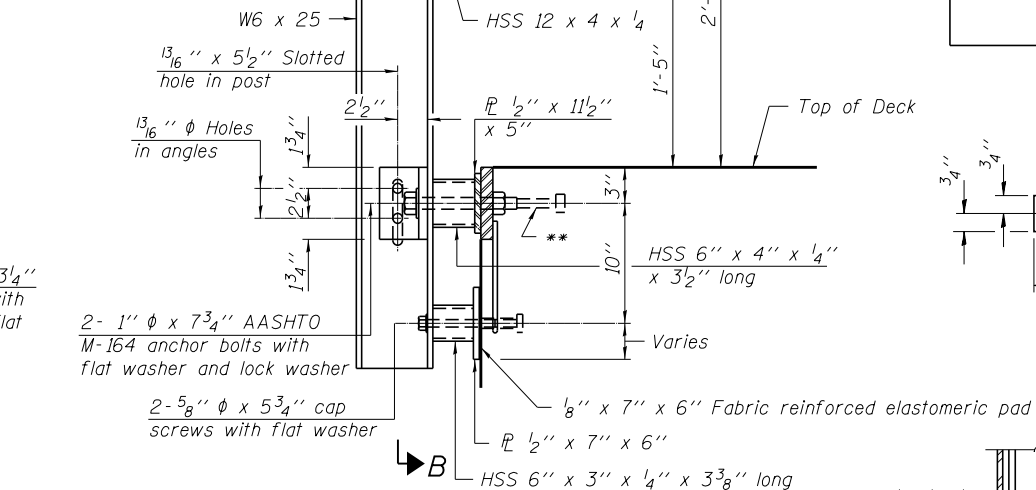


VIEW A-A
ROUND HEAD BOLT

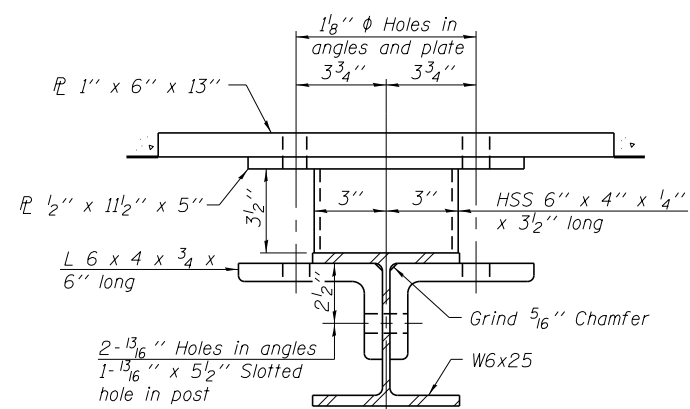


SECTION B-B

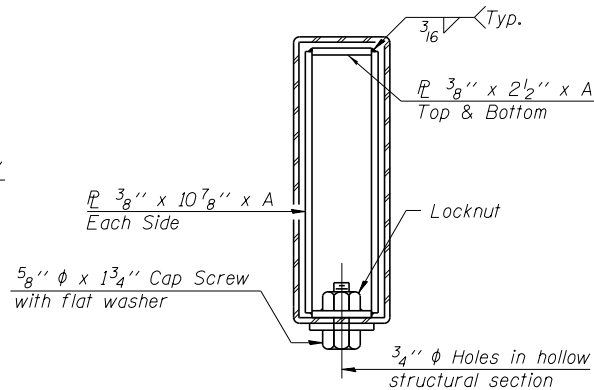
2-3#4" ϕ x 6" Round Head Bolts with locknut & flat washer.
7#8" ϕ holes in hollow structural section may be drilled in the field.



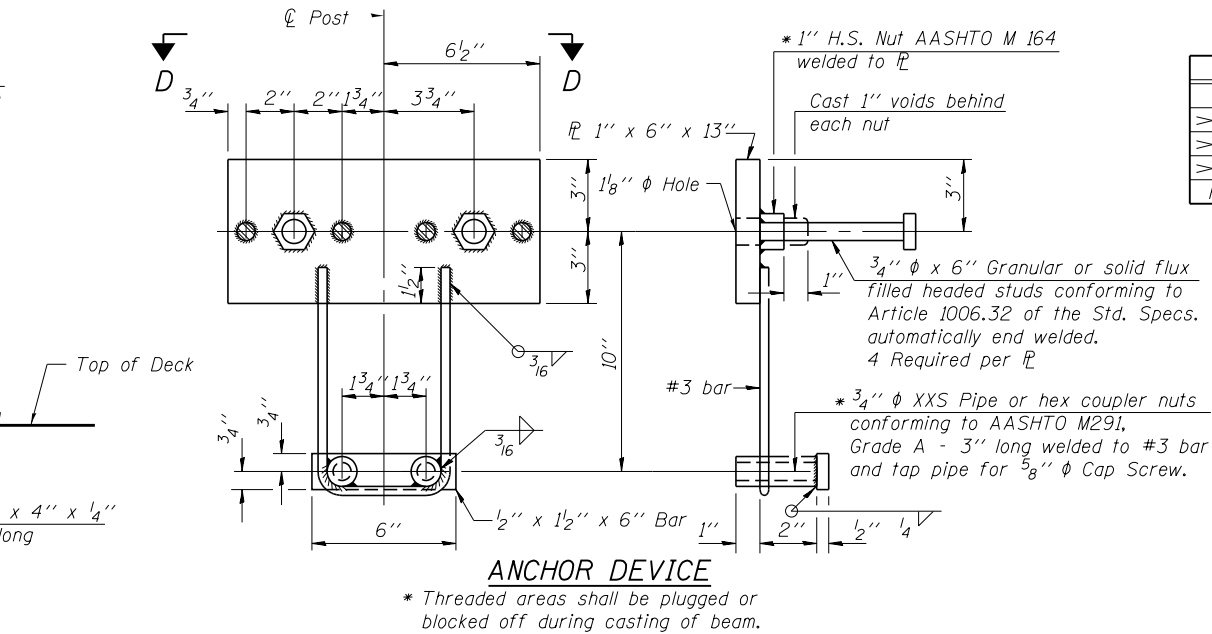
SECTION AT RAILING POST



SECTION C-C

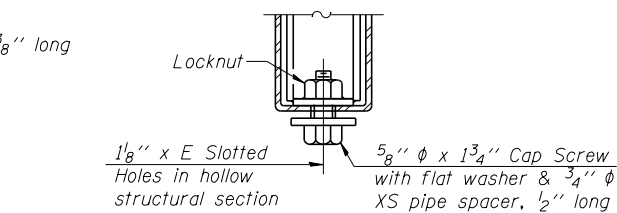


SECTIONS AT RAIL SPLICE

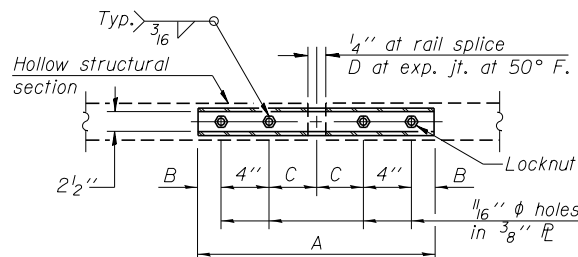


ANCHOR DEVICE

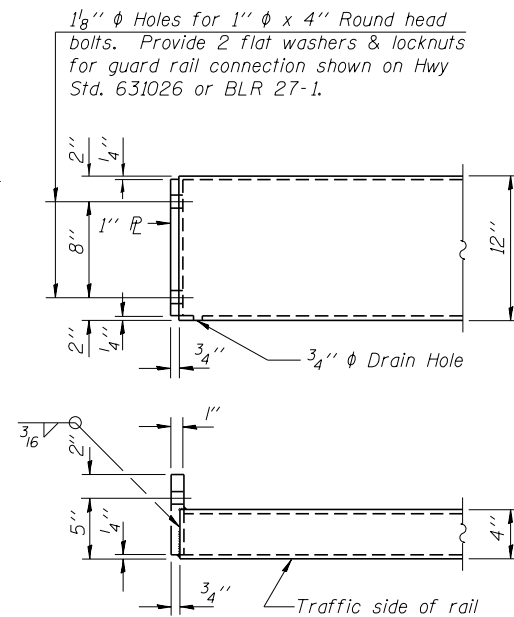
* Threaded areas shall be plugged or blocked off during casting of beam.



RAIL SPLICE CONNECTION
AT EXPANSION JT.

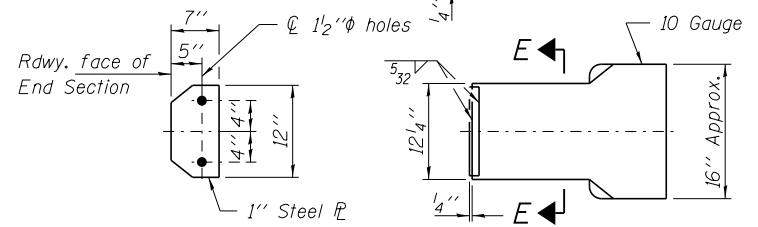


PLAN-BOTT. SPLICE POST
TYPICAL



END OF RAIL DETAILS

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



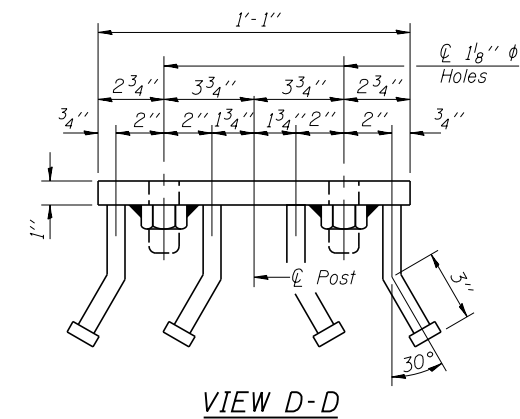
SECTION E-E
CURLED END SECTION DETAILS

SPLICE DIMENSIONS

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

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

Notes:
For multi-span bridges, sufficient 1/4 inch x 6 inch x 1'-2 inch galvanized steel shims shall be provided to align rail between adjacent spans. Cost included with Steel Railing, Type S-1.
All steel rail elements shall be galvanized according to Article 509.05 of the Standard Specifications.
* The studs of the anchor devices shall be placed below the top reinforcement bars and the outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchor device.



VIEW D-D

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	91

R-23A

11-22-16 (10'-9" Maximum Post Spacing)

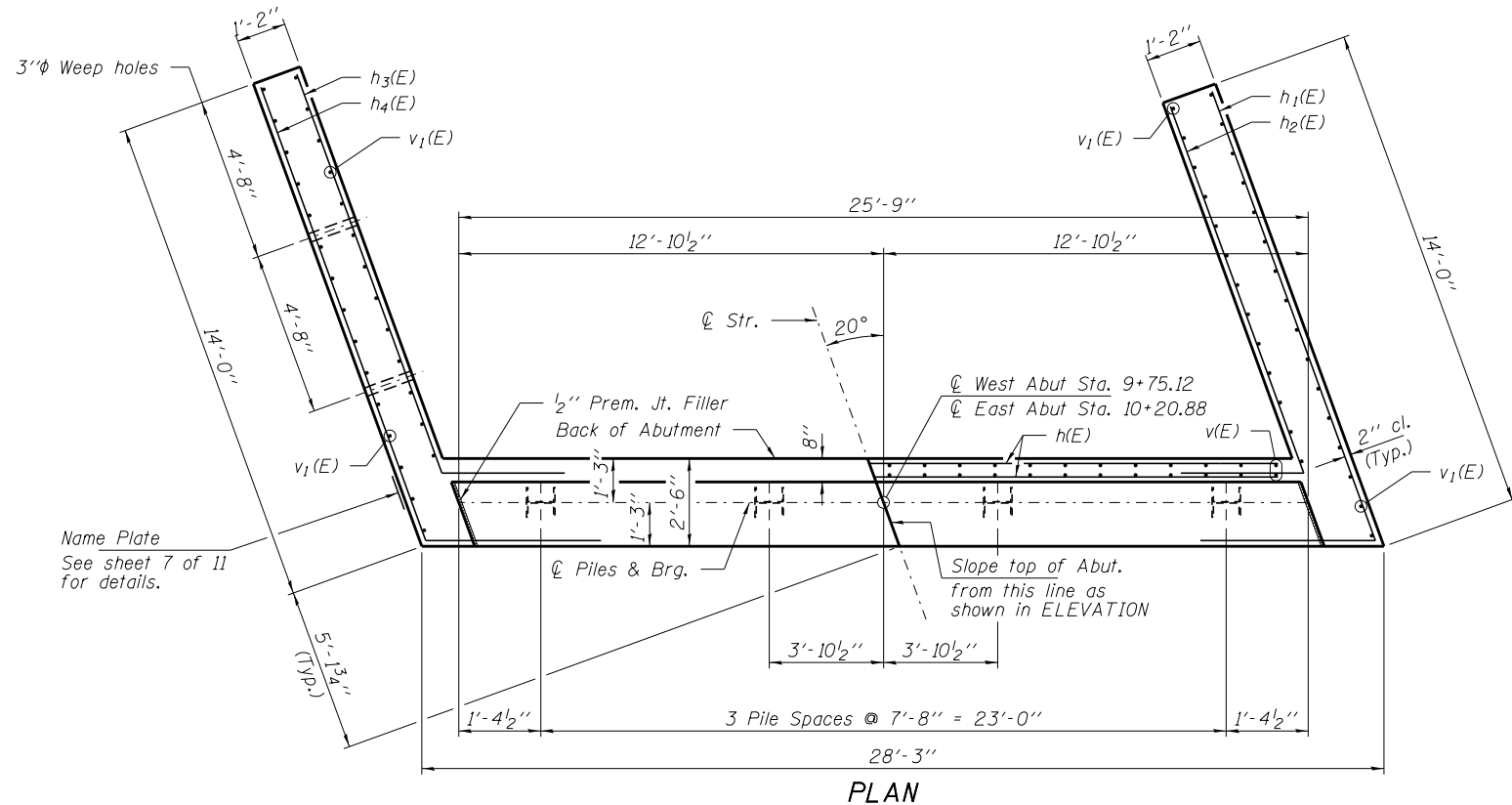
FILE NAME = 160088-sht-bridge.dgn	USER NAME =	DESIGNED - L.A.P.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L5 / PE / SE CORP. 184.009959	PLOT SCALE =	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 12/13/2017	DRAWN - R.D.H.	REVISED -
		CHECKED - S.W.M.	REVISED -

STATE OF ILLINOIS
UNION COUNTY HIGHWAY DEPARTMENT

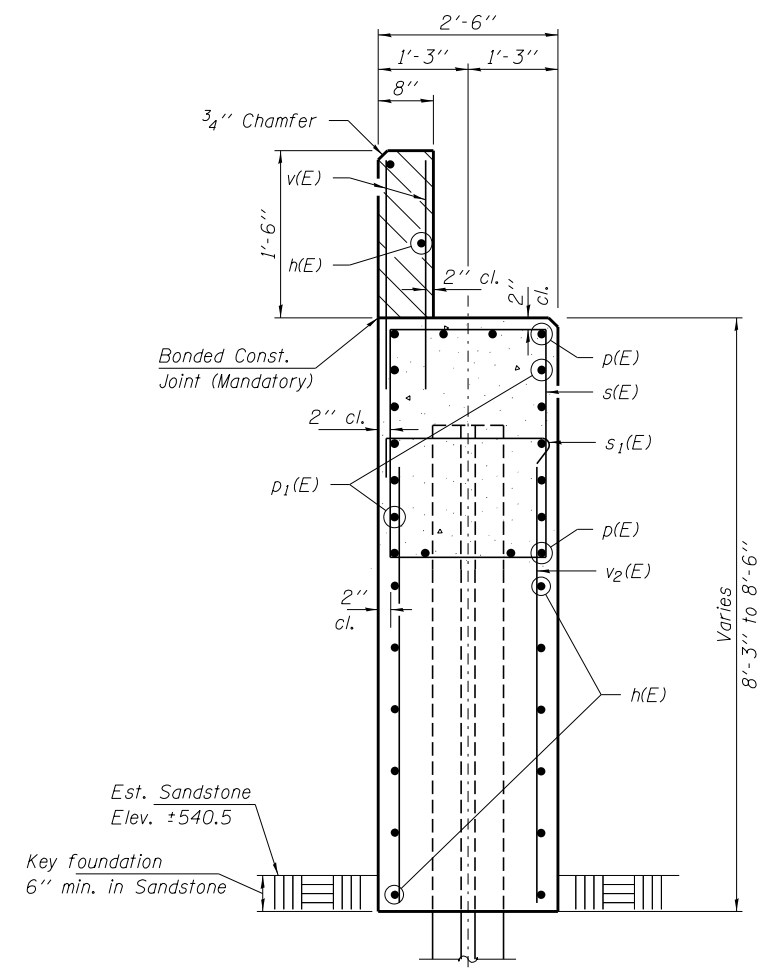
STEEL RAILING, TYPE S-1
STRUCTURE NO. 091-3245

SHEET NO. 5 OF 9 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	12-01205-00-BR	UNION	26	9
COUNTY UNIT ROAD DISTRICT		CONTRACT NO. 99594		
ILLINOIS FED. AID PROJECT JNKJ(393)				

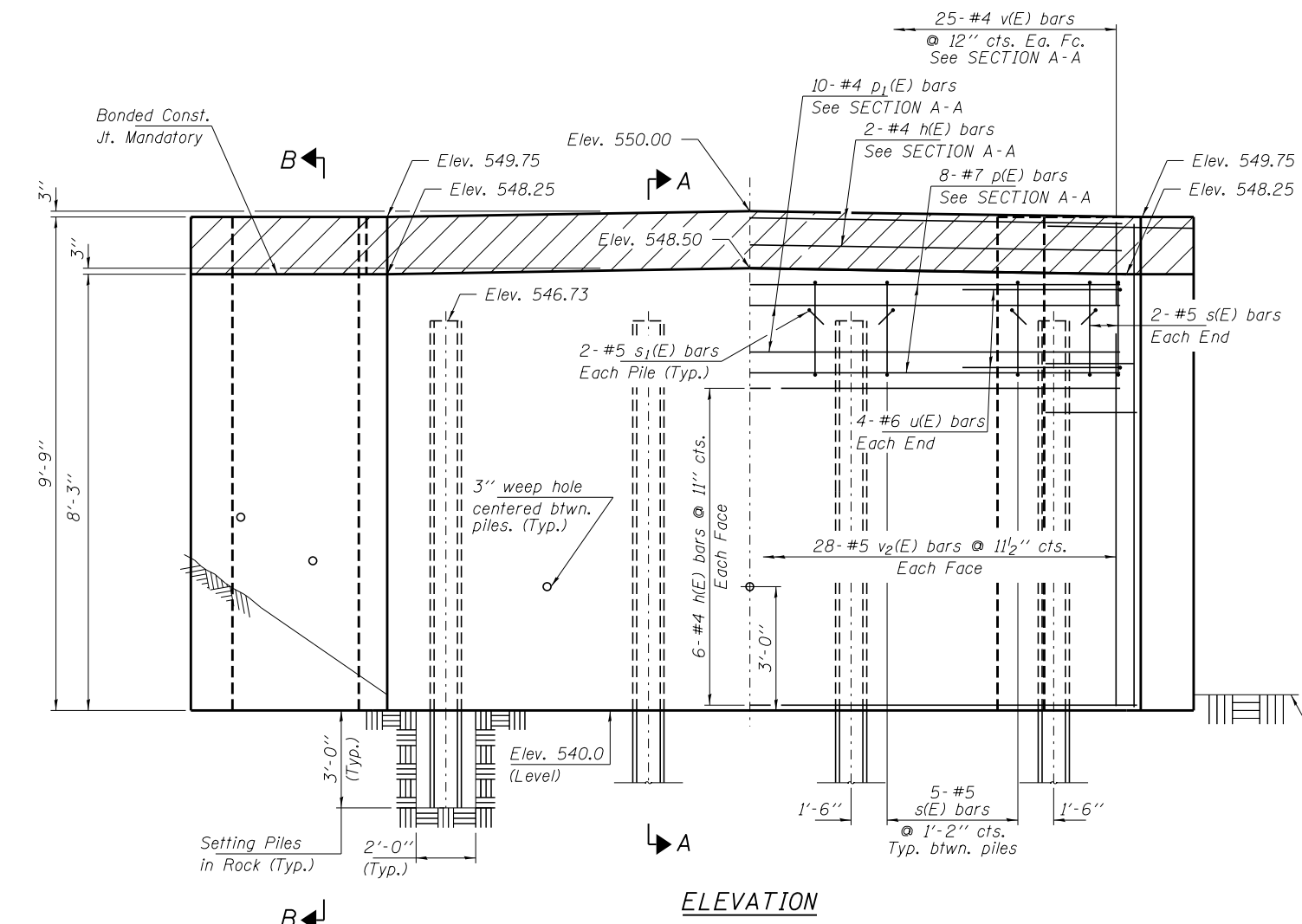


PLAN



SECTION A-A

Hatched area to be poured after beams are in place.
Cast top of wingwall flush with exterior beam face after beams have been erected.



ELEVATION

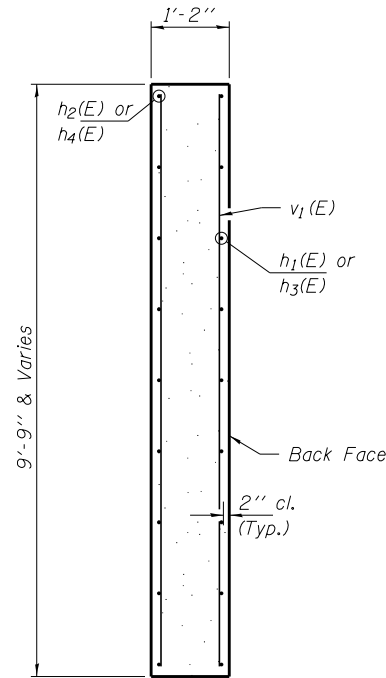
PILE DATA

Type _____ Steel HP10x42
No. Req'd. _____ 8
Factored Resistance Available (Rf) _____ 184 Kips/Pile
Nominal Required Bearing (Rn) _____ 335 Kips/Pile
Est. Length _____ 10 Ft/Pile

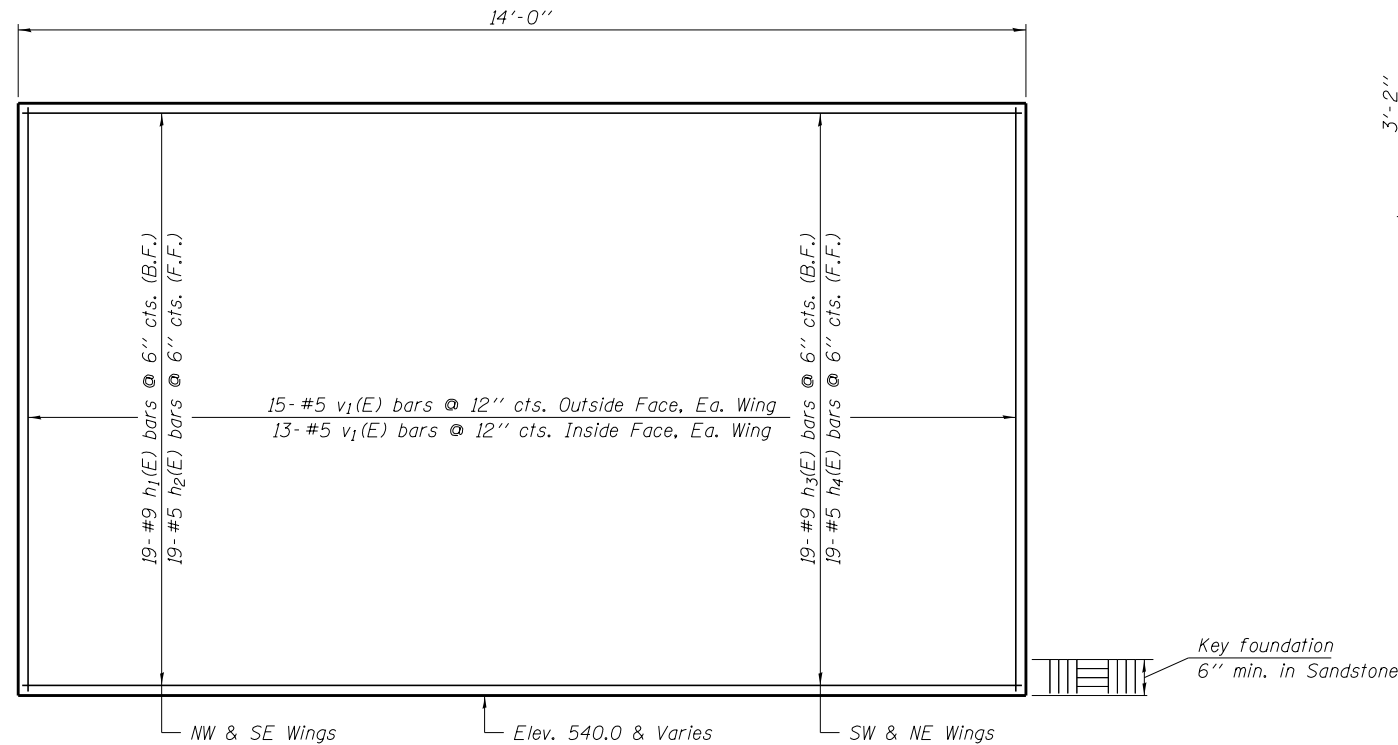
BILL OF MATERIAL - 2 ABUTS.

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	4	#4	25'-8"	—
h1(E)	38	#9	17'-1"	—
h2(E)	38	#9	14'-8"	—
h3(E)	38	#9	15'-4"	—
h4(E)	38	#9	17'-2"	—
p(E)	16	#7	26'-0"	—
p1(E)	20	#4	26'-0"	—
s(E)	42	#5	11'-7"	□
s1(E)	16	#5	3'-6"	—
u(E)	16	#6	12'-3"	—
v(E)	100	#4	2'-4"	—
v1(E)	112	#4	9'-5"	—
v2(E)	112	#4	8'-0"	—
Rock Excavation			Cu. Yd.	3.6
Porous Granular Backfill			Cu. Yd.	110
Concrete Structures			Cu. Yd.	65.4
Reinforcement Bars, Epoxy Coated			Pound	11,890
Steel Piles HP10x42			Foot	80
Setting Piles in Rock			Each	8
Name Plates			Each	1

See sheet 7 of 9 for Abutment Details.

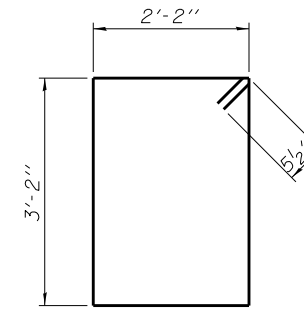


SECTION B-B

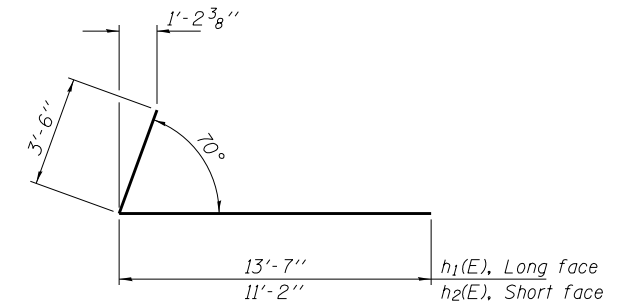


WING ELEVATION

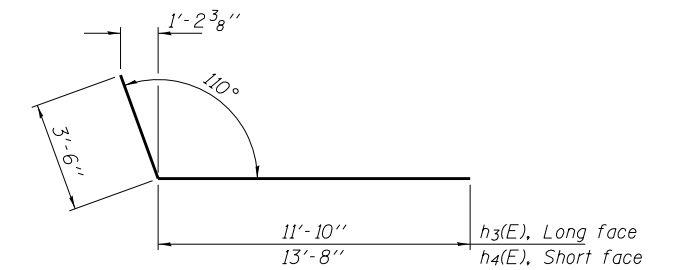
* Bottom of wing may be varied following the top of sandstone layer. Cut v1(E) bars to fit.



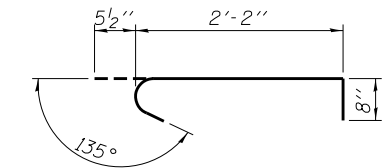
BAR s(E)



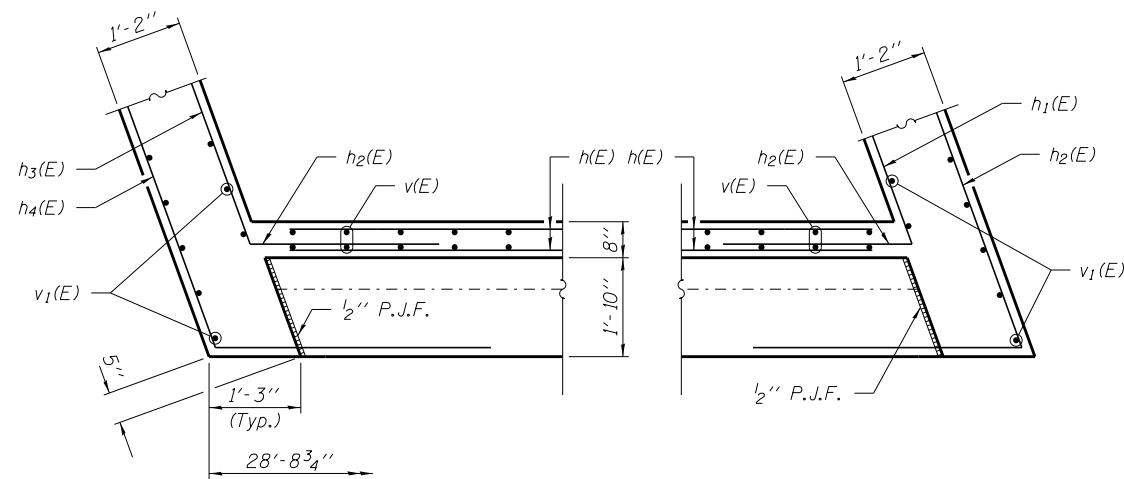
BARS h1(E) & h2(E)



BARS h3(E) & h4(E)

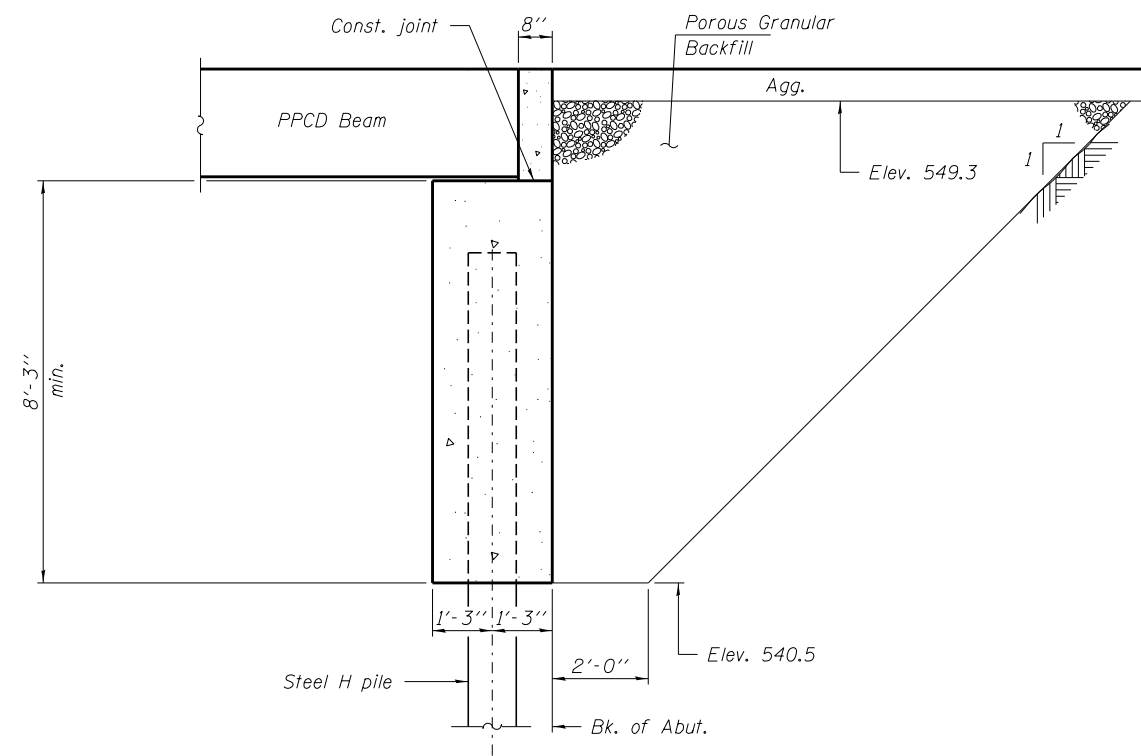


BAR s1(E)



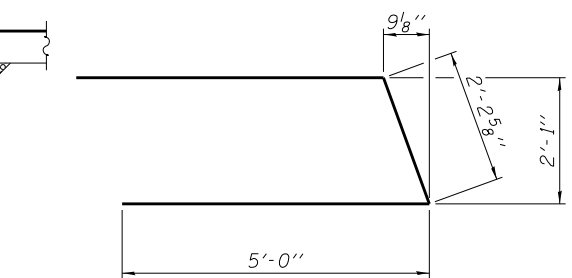
CORNER DETAIL

CORNER DETAIL

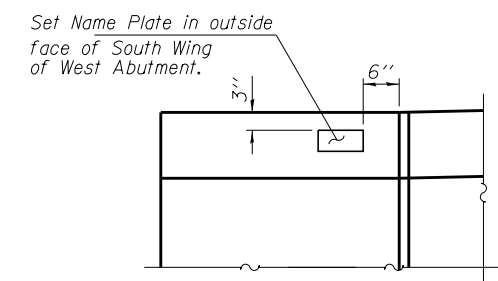


SECTION THRU ABUTMENT

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



BAR u(E)



NAME PLATE LOCATION

FILE NAME = 160088-sht-bridge.dgn	USER NAME =	DESIGNED - L.A.P.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -
3035 STEVENSON DRIVE, SUITE 201		DRAWN - R.D.H.	REVISED -
SPRINGFIELD, ILLINOIS 62703		CHECKED - S.W.M.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM	PLOT SCALE =		
LS / PE / SE CORP. 184.000959	PLOT DATE = 12/13/2017		

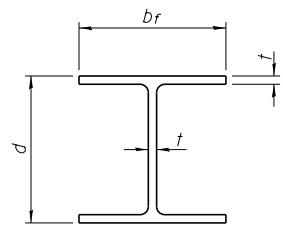
STATE OF ILLINOIS
UNION COUNTY HIGHWAY DEPARTMENT

ABUTMENT DETAILS
STRUCTURE NO. 091-3245

SHEET NO. 7 OF 9 SHEETS

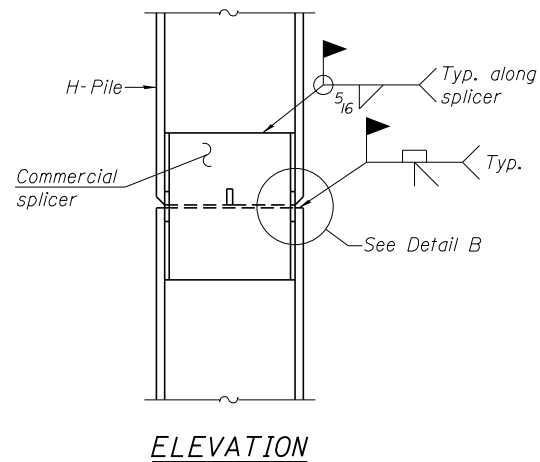
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	12-01205-00-BR	UNION	26	11
COUNTY UNIT ROAD DISTRICT			CONTRACT NO. 99594	

ILLINOIS FED. AID PROJECT JNJK(393)

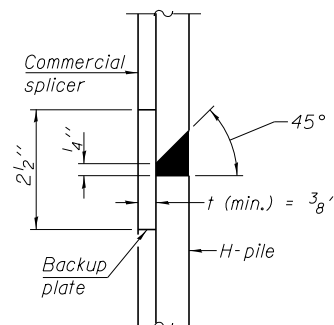


STEEL PILE TABLE

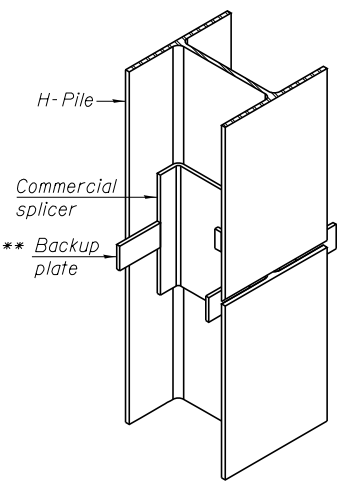
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	13/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53	11 3/4"	12"	7/16"	24"
HP 10x57	10"	10 1/4"	9/16"	24"
x42	9 3/4"	10 1/8"	7/16"	24"
HP 8x36	8"	8 1/8"	7/16"	18"



ELEVATION

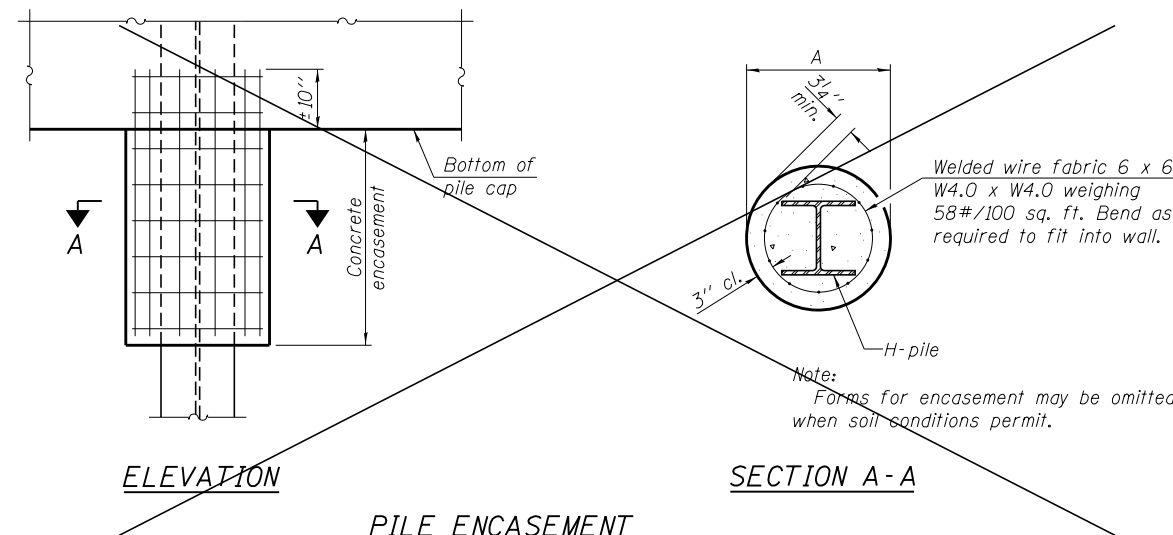


DETAIL "B"



ISOMETRIC VIEW

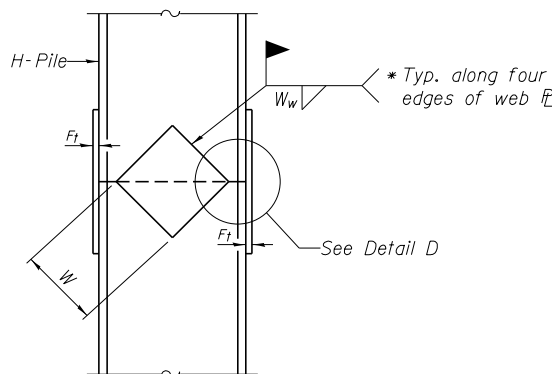
WELDED COMMERCIAL SPLICE



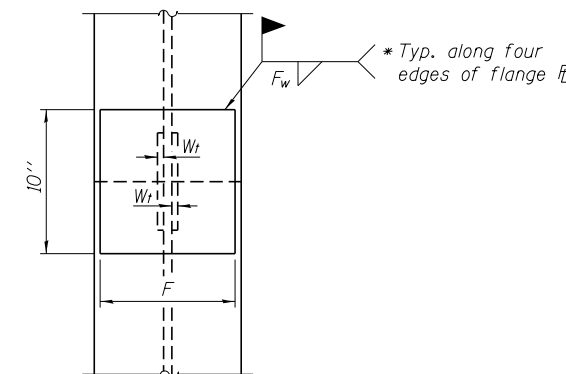
ELEVATION

SECTION A-A

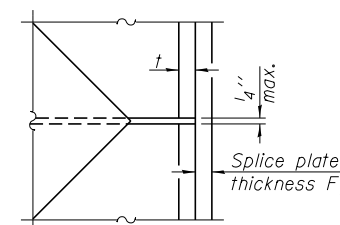
PILE ENCASEMENT
(Not Required)



ELEVATION



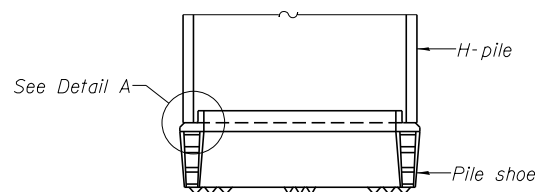
END VIEW



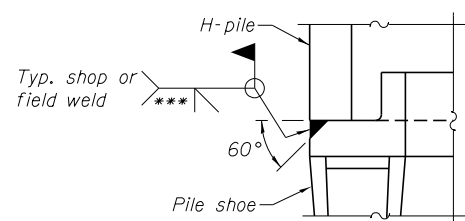
DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	F _t	F _w	W	W _t	W _w
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

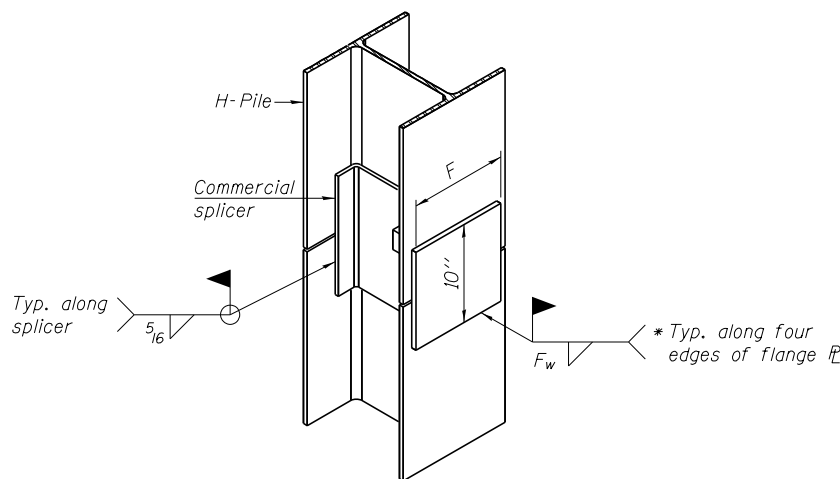


ELEVATION



DETAIL A

H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

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

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

F-HP 1-27-12

FILE NAME = 160088-sht-bridge.dgn	USER NAME =	DESIGNED - L.A.P.	REVISED -	STATE OF ILLINOIS UNION COUNTY HIGHWAY DEPARTMENT	HP PILE DETAILS STRUCTURE NO. 091-3245	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S./P.E./S.E. CORP. 184.000959	PLOT SCALE =	CHECKED - S.W.M.	REVISED -			17	12-01205-00-BR	UNION	26	12	
	PLOT DATE = 12/13/2017	DRAWN - R.D.H.	REVISED -			COUNTY UNIT ROAD DISTRICT		CONTRACT NO. 99594		ILLINOIS FED. AID PROJECT JNJK(393)	
		CHECKED - S.W.M.	REVISED -			SHEET NO. 8 OF 9 SHEETS					

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

Bridge Foundation Boring Log

Project: H-16028 Bridge TR17 Alto Water Works Rd Date: 2/22/2016
Section: 12-01205-00-BR Station: _____ Bored by: B. Schwartz
Structure: 091-3138 _____ Checked By: I. Holcomb
County: Union

Boring No: 1 Surface Water Elev. _____
Station: _____ Ground Water Elev. 97.3
Offset: _____ During Drilling
Upon Completion 97.8

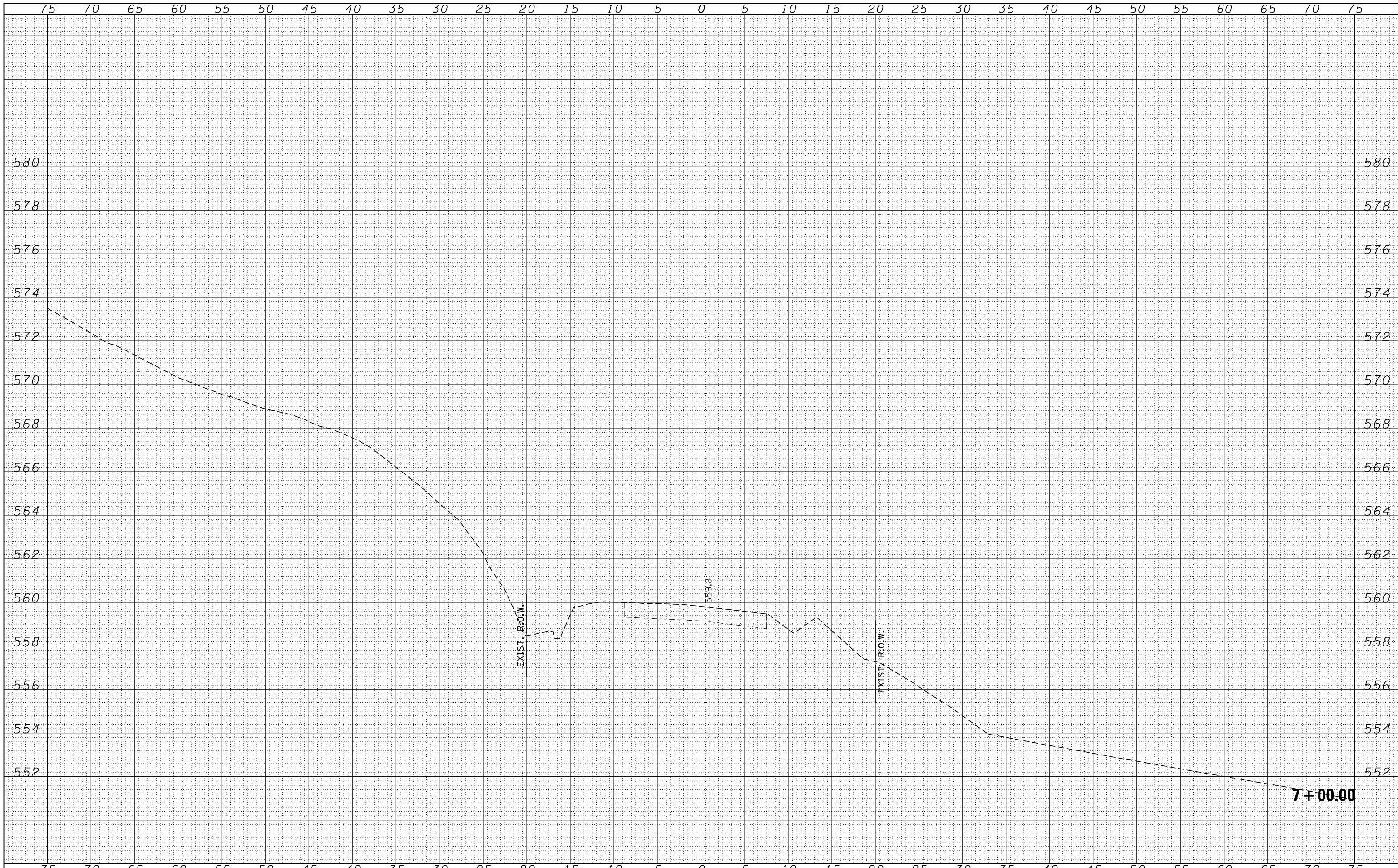
	Elevation		N	Qu	tsf	w	%
Ground Surface (550.3)	100.8	0					
1" A-3 Surface over 2" Crushed Stone							
Brown Clayey SILT (A-4)			7	0.58	23		
(546.8)	97.3						
Brown Weathered SANDSTONE with clay seams			18	--	6		
(542.3)	92.8						
Gray SANDSTONE	92.3						
Brown Silty CLAY (A-6)							
Gray Weathered SHALE							
Recovery = 100% RQD = 58%							
(536.8)	87.3						
Gray LIMESTONE							
Recovery = 95% RQD = 85%							
(533.8)	84.3						
Gray SHALE							
(532.3)	82.8						
End of Boring @ -18.0'							

N = Standard Penetration Test Blows per foot to drive 2" O.D. Split Spoon Sampler 12" with a 140 lbs. hammer falling 30"
Qu—Unconfined Compressive Strength in tons/sq.ft.
w—Water Content—percentage of oven dry weight—%
B = Bulge Failure
S = Shear Failure
E = Estimated Value
P = Penetrometer

BORING

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

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



FILE NAME = 160088-sht-ssht.dgn
 USER NAME = rhosick
 DESIGNED - L.A.P.
 DRAWN - L.G.C.
 CHECKED - S.W.M.
 DATE - 12/12/17
 PLOT SCALE = *SCALE*
 PLOT DATE = 12/13/2017

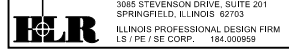
DESIGNED - L.A.P.
 DRAWN - L.G.C.
 CHECKED - S.W.M.
 DATE - 12/12/17
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 REVISION NO. | DATE | DESCRIPTION
 1 | | |
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STATE OF ILLINOIS
 UNION COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
 ALTO WATERWORKS ROAD

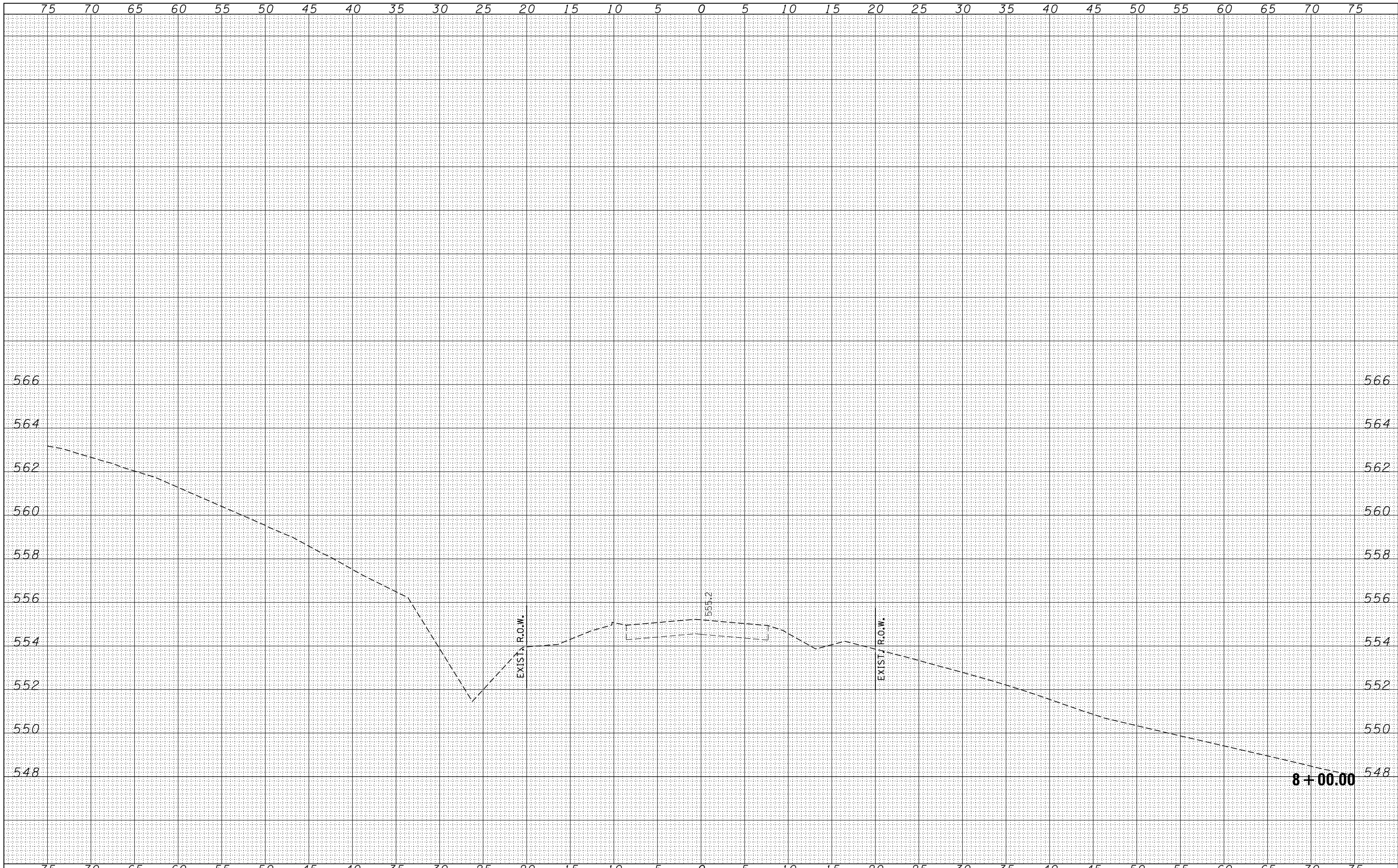
SCALE: 5H:2V
 SHEET NO. 1 OF 13 SHEETS
 STA. 7+00.00 TO STA. 7+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	12-01205-00-BR	UNION	26	14
COUNTY UNIT ROAD DISTRICT			CONTRACT NO. 99594	
ILLINOIS FED. AID PROJECT JNJK1393				



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



FILE NAME = 160088-sht-ssht.dgn
 USER NAME = rhosick
 DESIGNED - L.A.P.
 DRAWN - L.G.C.
 CHECKED - S.W.M.
 DATE - 12/12/17
 PLOT SCALE = *SCALE*
 PLOT DATE = 12/13/2017

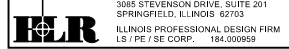
DESIGNED	-	L.A.P.	REVISED	-
DRAWN	-	L.G.C.	REVISED	-
CHECKED	-	S.W.M.	REVISED	-
DATE	-	12/12/17	REVISED	-

**STATE OF ILLINOIS
 UNION COUNTY HIGHWAY DEPARTMENT**

**STATION CROSS SECTIONS
 ALTO WATERWORKS ROAD**

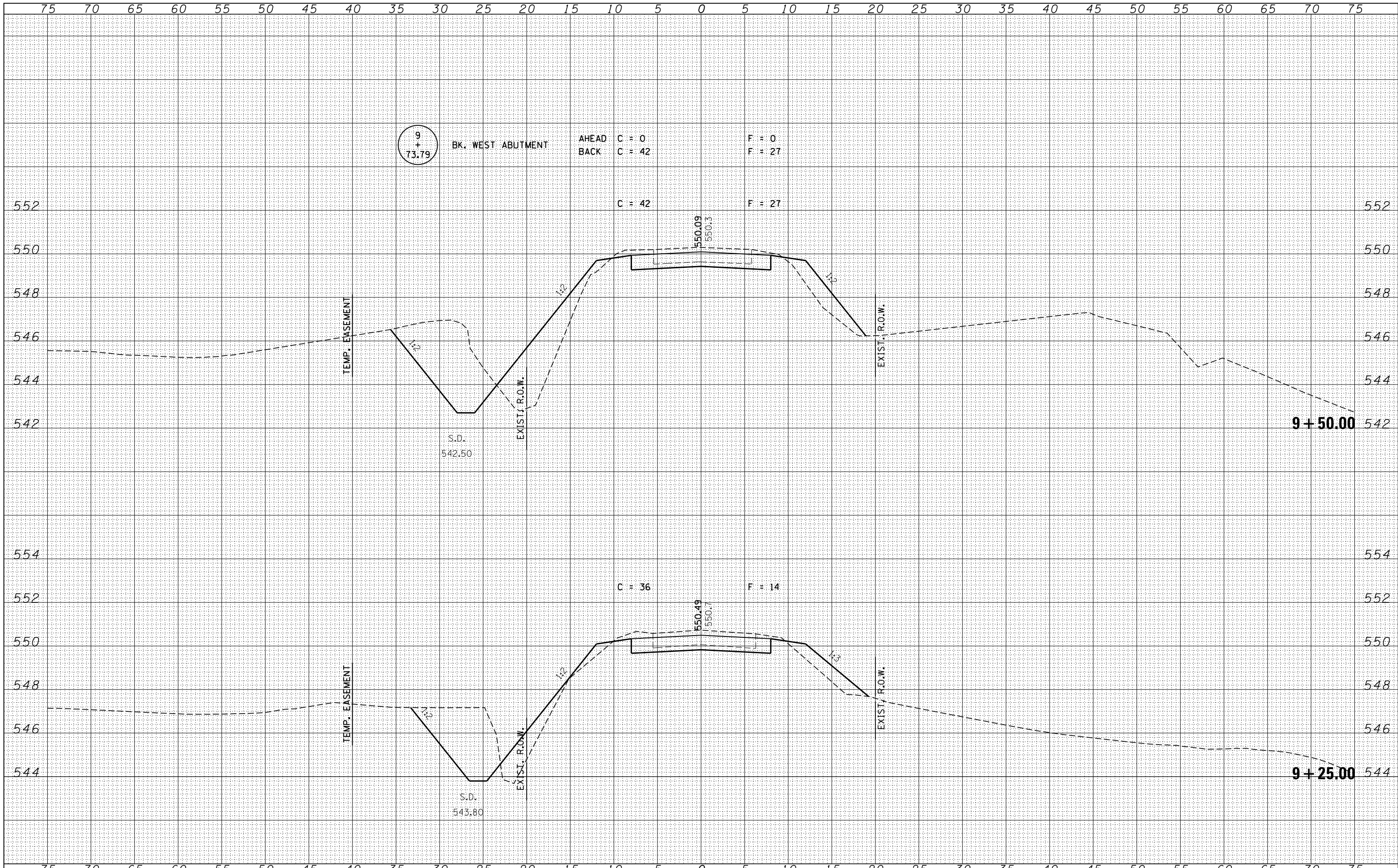
SCALE: 5H:2V SHEET NO. 3 OF 13 SHEETS STA. 8+00.00 TO STA. 8+00.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	12-01205-00-BR	UNION	26	16
COUNTY UNIT ROAD DISTRICT			CONTRACT NO. 99594	
ILLINOIS FED. AID PROJECT JNJK(393)				



DATE	
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ORIGINAL SURVEY	
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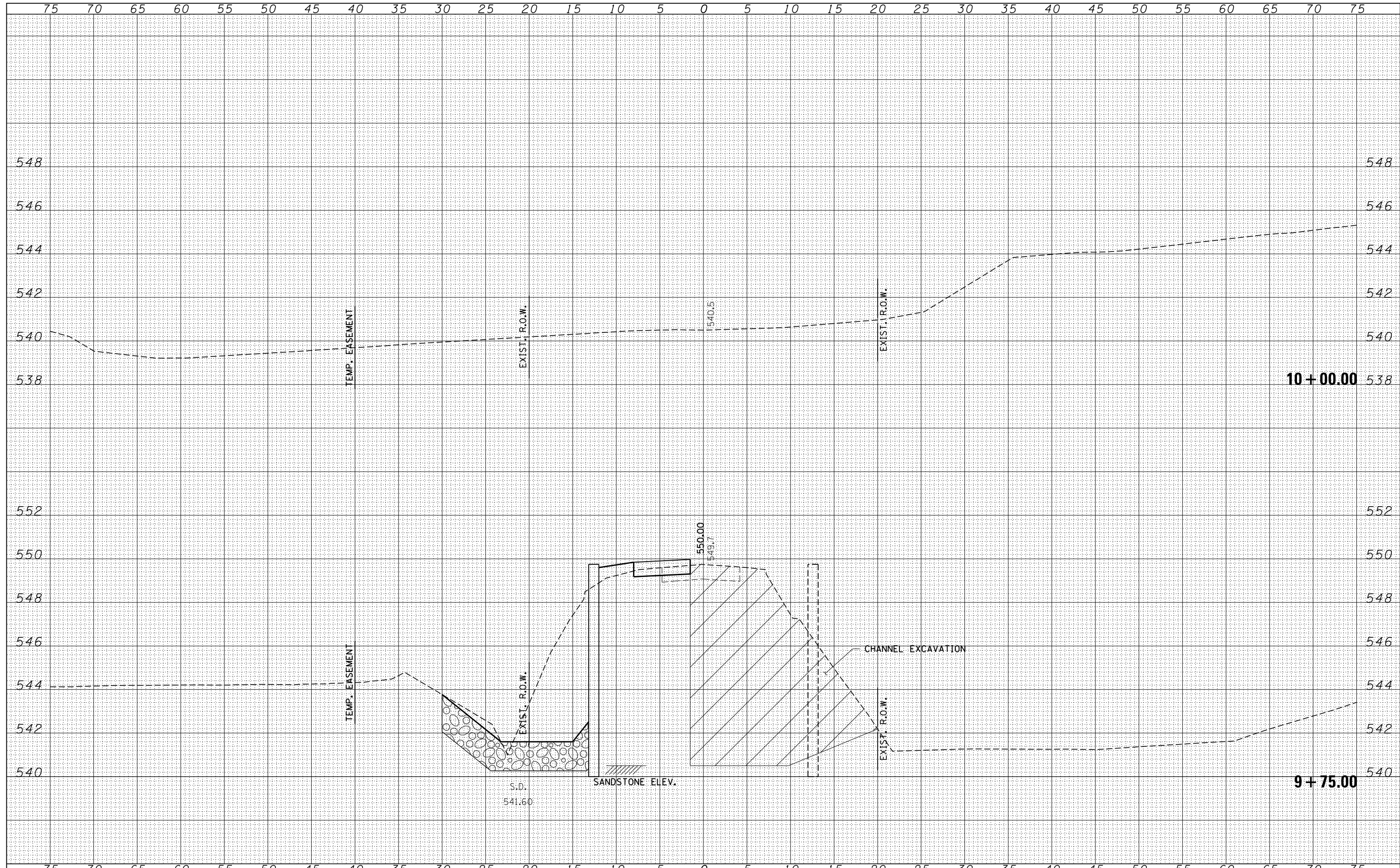
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ORIGINAL SURVEY	
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TEMPLATE	
AREAS	
CHECKED	
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FILE NAME = 160088-sht-ssht.dgn	USER NAME = rhosick	DESIGNED - L.A.P.	REVISED -	STATE OF ILLINOIS UNION COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS ALTO WATERWORKS ROAD	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - L.G.C.	REVISED -			17	12-01205-00-BR	UNION	26	18
3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000958		CHECKED - S.W.M.	REVISED -			COUNTY UNIT ROAD DISTRICT		CONTRACT NO. 99594		
		DATE - 12/12/17	REVISED -			SCALE: 5H:2V	SHEET NO. 5 OF 13 SHEETS	STA. 9+25.00	TO STA. 9+50.00	

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

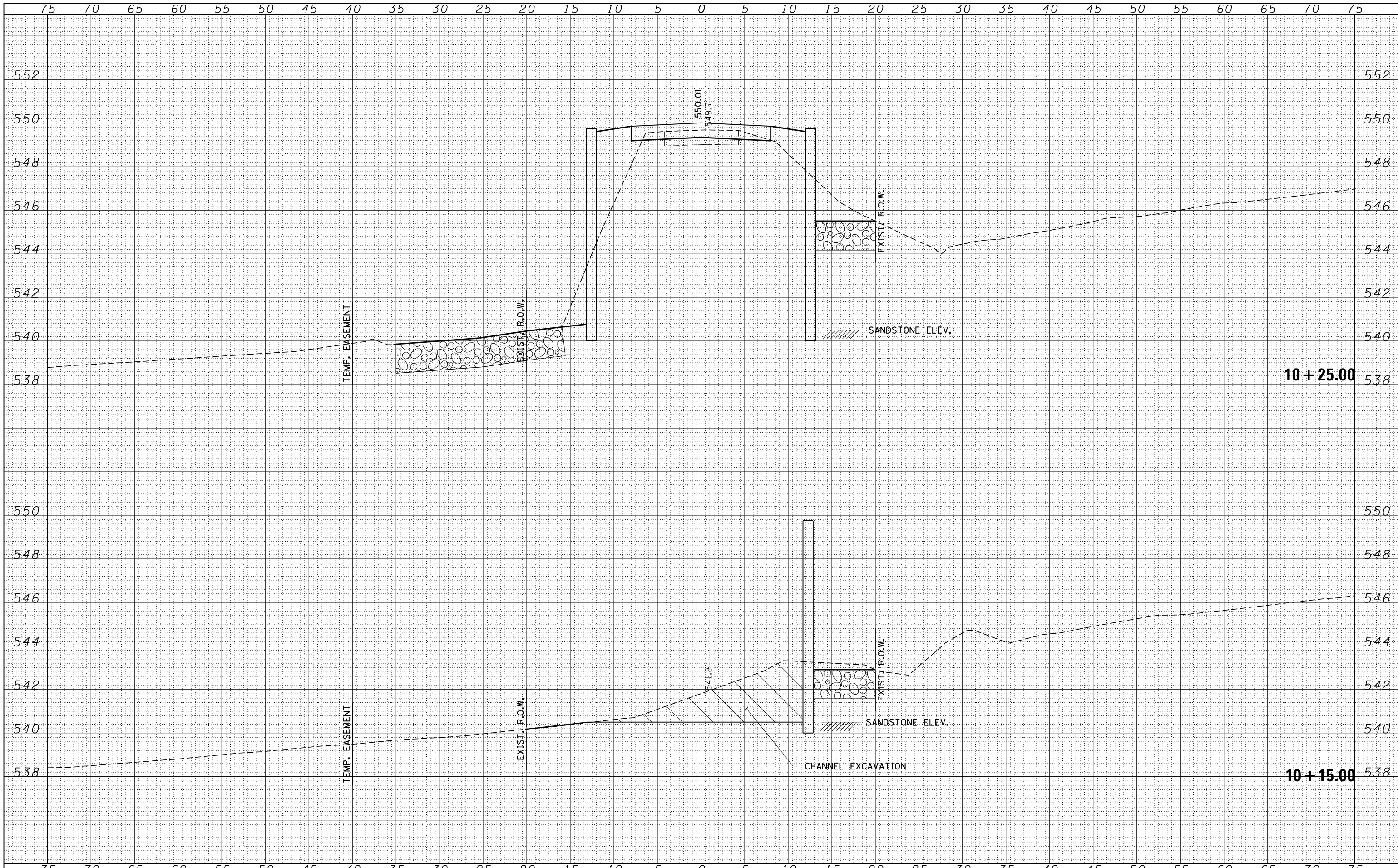
DATE	
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
	TEMPLATE
	AREAS CHECKED



FILE NAME = 160088-sht-xssht.dgn	USER NAME = rhosick	DESIGNED - L.A.P.	REVISIED -	STATE OF ILLINOIS UNION COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS ALTO WATERWORKS ROAD			T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000958		DRAWN - L.G.C.	REVISIED -		17	12-01205-00-BR	UNION	26	19			
		CHECKED - S.W.M.	REVISIED -		COUNTY UNIT ROAD DISTRICT			CONTRACT NO. 99594				
		DATE - 12/12/17	REVISIED -		SCALE: 5H:2V	SHEET NO. 6 OF 13 SHEETS	STA. 9+75.00	TO STA. 10+00.00	ILLINOIS FED. AID PROJECT JNJK1393			

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



FILE NAME = 160088-sht-ssht.dgn
 HAMPTON, LENZINI AND RENWICK, INC.
 3885 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.000958

USER NAME = rhosick
 DESIGNED - L.A.P.
 DRAWN - L.G.C.
 CHECKED - S.W.M.
 DATE - 12/12/17

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STATE OF ILLINOIS
 UNION COUNTY HIGHWAY DEPARTMENT

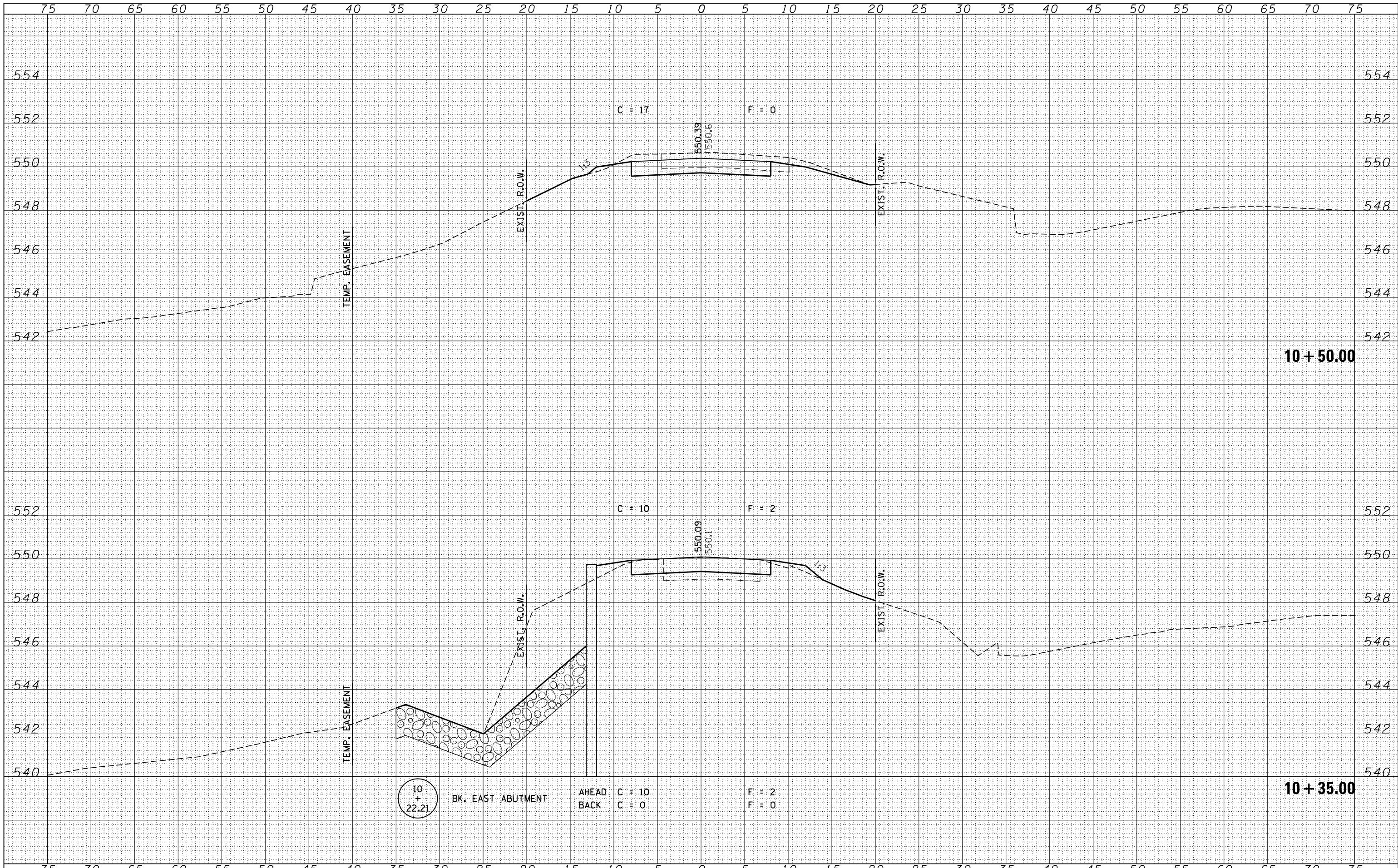
SCALE: 5H:2V
 SHEET NO. 7 OF 13 SHEETS
 STA. 10+15.00 TO STA. 10+25.00

STATION CROSS SECTIONS
 ALTO WATERWORKS ROAD

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	12-01205-00-BR	UNION	26	20
COUNTY UNIT ROAD DISTRICT			CONTRACT NO. 99594	
ILLINOIS FED. AID PROJECT JNJK1393				

DATE	
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CHECKED	
FINAL SURVEY	
NOTE BOOK	
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DATE	
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PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
ORIGINAL SURVEY	
NOTE BOOK	
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FILE NAME = 160088-sht-ssht.dgn
 USER NAME = rhosick
 DESIGNED - L.A.P.
 DRAWN - L.G.C.
 CHECKED - S.W.M.
 DATE - 12/12/17
 PLOT SCALE = *SCALE*
 PLOT DATE = 12/13/2017

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STATE OF ILLINOIS
 UNION COUNTY HIGHWAY DEPARTMENT

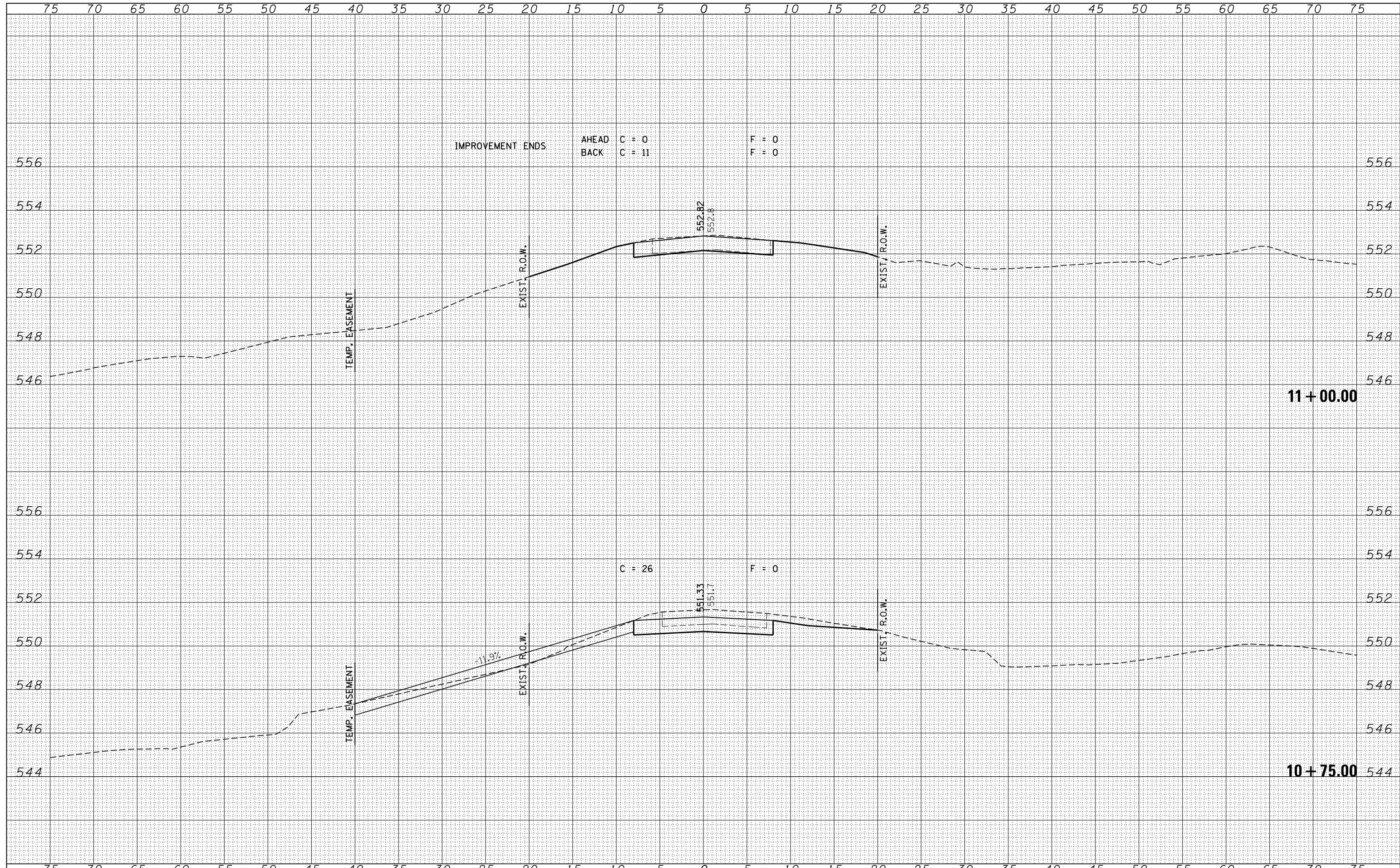
SCALE: 5H:2V
 SHEET NO. 8 OF 13 SHEETS
 STA. 10+35.00 TO STA. 10+50.00

STATION CROSS SECTIONS
 ALTO WATERWORKS ROAD

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
17	12-01205-00-BR	UNION	26	21
COUNTY UNIT ROAD DISTRICT			CONTRACT NO. 99594	
ILLINOIS FED. AID PROJECT JNJK1393				

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



FILE NAME = 160088-sht-xssht.dgn	USER NAME = rhosick	DESIGNED - L.A.P.	REVISIED -	STATE OF ILLINOIS UNION COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS ALTO WATERWORKS ROAD	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S./P.E. CORP. 184.000958		DRAWN - L.G.C.	REVISIED -			17	12-01205-00-BR	UNION	26	22
		CHECKED - S.W.M.	REVISIED -			COUNTY UNIT ROAD DISTRICT		CONTRACT NO. 99594		
		DATE - 12/12/17	REVISIED -			ILLINOIS FED. AID PROJECT JNJK1393				
		PLOT SCALE = *SCALE*		SCALE: 5H:2V	SHEET NO. 9 OF 13 SHEETS	STA. 10+75.00	TO STA. 11+00.00			

