

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 274	09-03138-00-BR	VERMILION	40	1
FED. ROAD DIST. NO.		ILLINOIS	CONTRACT NO. 91528	

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	SUMMARY OF QUANTITIES AND GENERAL NOTES
3.	TYPICAL SECTIONS
4-5.	PLAN AND PROFILE
6-18.	BRIDGE PLANS
19.	BORINGS
20-40.	STATION CROSS SECTIONS

HIGHWAY STANDARDS:

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
515001-03	NAME PLATE FOR BRIDGES
701901-06	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

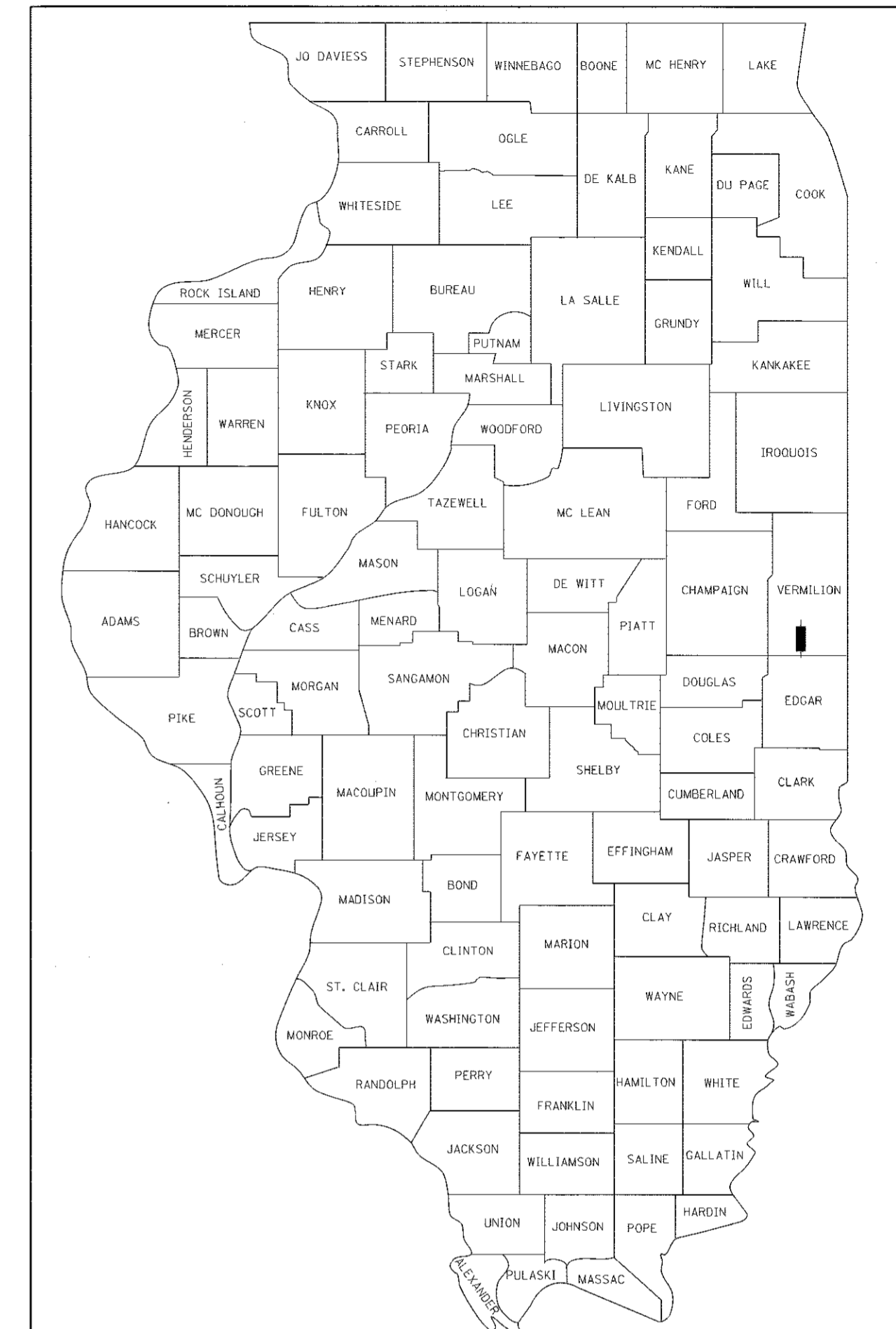
UTILITIES

MIDWESTERN GAS
PO BOX 388
POTOMAC, IL 61865

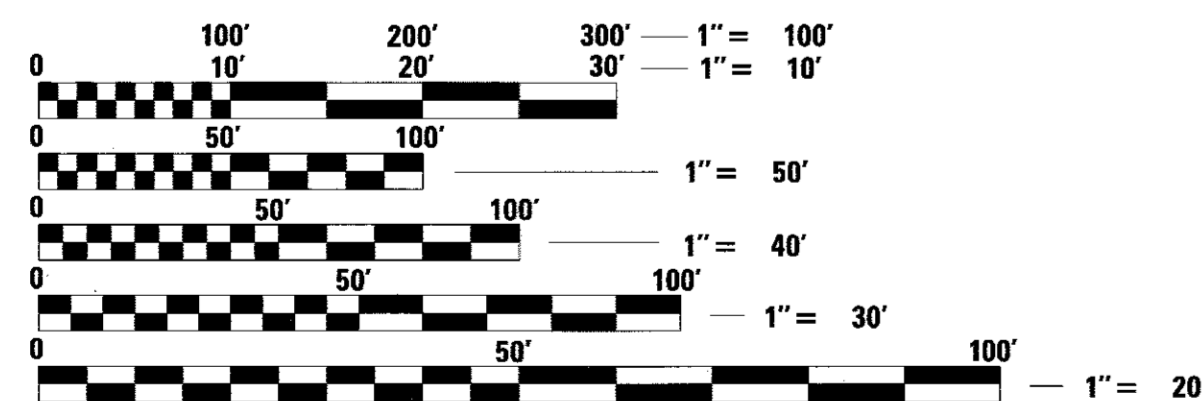
AT&T
201 S. NEIL STREET
CHAMPAIGN, ILLINOIS 61820

**PLANS FOR PROPOSED
SURFACE TRANSPORTATION PROGRAM
OFF SYSTEM BRIDGE**

**PROJECT HVCN(463)
SECTION 09-03138-00-BR
CARROLL ROAD DISTRICT
VERMILION COUNTY
T.R. 274
PROPOSED STRUCTURE NO. 092-3521
C-95-315-15**

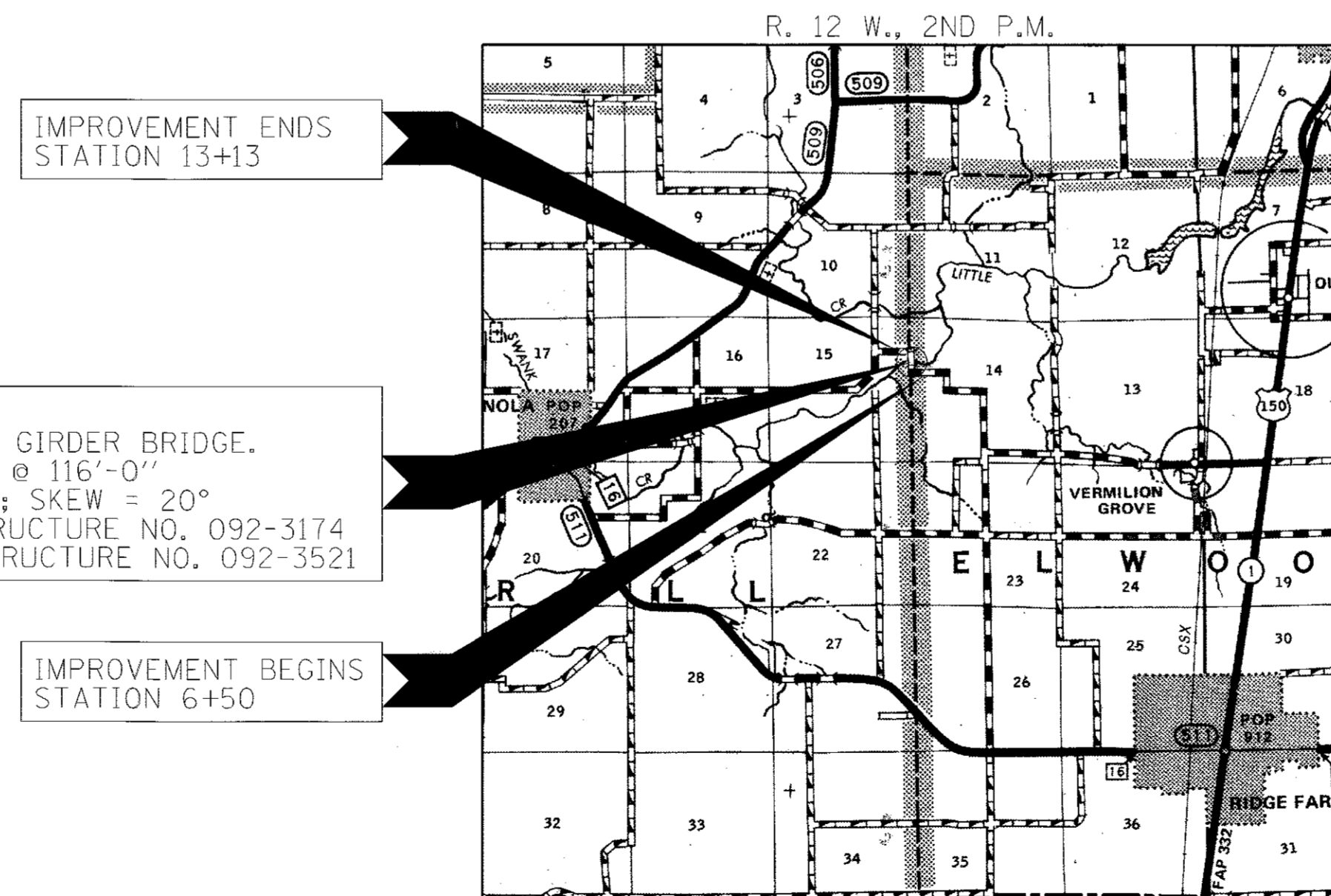


LOCATION OF SECTION INDICATED THUS: - ■ -



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
DESIGN SPEED: 30 MPH
DESIGN TRAFFIC: 150 ADT (2015)



STA. 9+98
STEEL PLATE GIRDER BRIDGE.
SINGLE SPAN @ 116'-0"
27'-0" RDWY.; SKEW = 20°
EXISTING STRUCTURE NO. 092-3174
PROPOSED STRUCTURE NO. 092-3521

LOCATION MAP

APPROXIMATE SCALE: 0 1 MILE
NET LENGTH OF SECTION = 663 FEET = 0.13 MILES



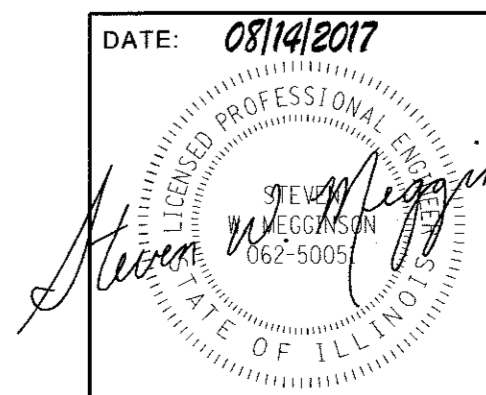
ILLINOIS DEPARTMENT OF TRANSPORTATION

APPROVED August 18 2017
Douglas R. Blake
COUNTY ENGINEER

APPROVED August 18 2017
Tim D. Druman
TOWNSHIP COMMISSIONER

PASSED August 22 2017
David A. James
REGION THREE ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



DATE: 08/14/2017

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

184.000959
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	UNIT	CONSTRUCTION TYPE CODE 0011
			TOTAL
20200100	EARTH EXCAVATION	CU YD	615
20300100	CHANNEL EXCAVATION	CU YD	540
28000305	TEMPORARY DITCH CHECKS	FOOT	81
28000400	PERIMETER EROSION BARRIER	FOOT	630
28100807	STONE DUMPED RIPRAP, CLASS A4	TON	760
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	610
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	204
50300225	CONCRETE STRUCTURES	CU YD	36.0
50300255	CONCRETE SUPERSTRUCTURE	CU YD	123.0
50300300	PROTECTIVE COAT	SQ YD	444
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1
50500505	STUD SHEAR CONNECTORS	EACH	885
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	28,850
50900205	STEEL RAILING, TYPE S1	FOOT	235
51201400	FURNISHING STEEL PILES HP10X42	FOOT	250
51202305	DRIVING PILES	FOOT	250
51203400	TEST PILE STEEL HP10X42	EACH	2
51204650	PILE SHOES	EACH	12
51500100	NAME PLATES	EACH	1
52100520	ANCHOR BOLTS, 1"	EACH	20
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	71
59300100	CONTROLLED LOW-STRENGTH MATERIAL	CU YD	148
67100100	MOBILIZATION	L SUM	1
70101830	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.75
Z0046304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	168
XX004566	CONCRETE CUT-OFF WALL	CU YD	6.8
Z0013798	CONSTRUCTION LAYOUT	L SUM	1

^ SEE SPECIAL PROVISIONS

* SPECIALTY ITEMS

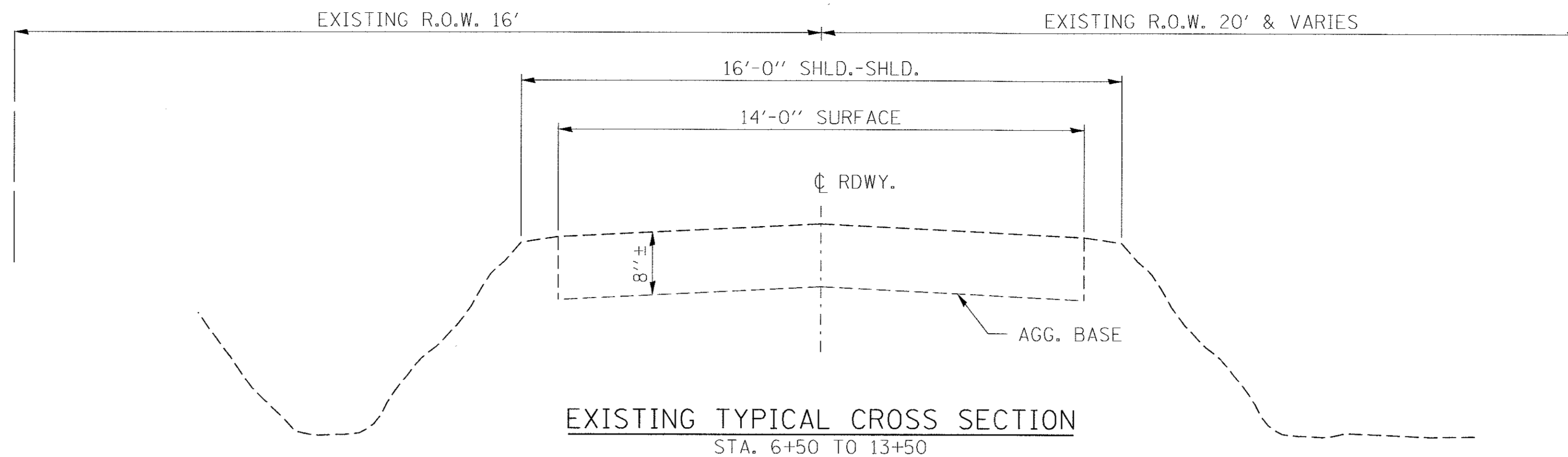
GENERAL NOTES

- 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.
- THE REVISION NUMBERS OF THE STANDARDS LISTED IN THE PLANS ARE TO BE USED FOR CONSTRUCTING OF THIS SECTION.
- ALL CLEARING AND GRUBBING, FENCE REMOVAL AND REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. THE REMOVAL OF THE EXISTING PAVEMENT WILL BE PAID FOR AS EARTH EXCAVATION. ALL BITUMINOUS MATERIAL SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR IN A METHOD APPROVED BY THE ENGINEER. PROPER DISPOSAL OF BITUMINOUS MATERIAL 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 1.80 TON/CU YD
STONE DUMPED RIPRAP 1.75 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) = 0.75 ACRES
- COMMITMENTS:
1) AN INSPECTION OF THE BRIDGE SHALL BE CONDUCTED BY THE ENGINEER NO LESS THAN 7 DAYS PRIOR TO CONSTRUCTION FOR PRESENCE OF BATS.

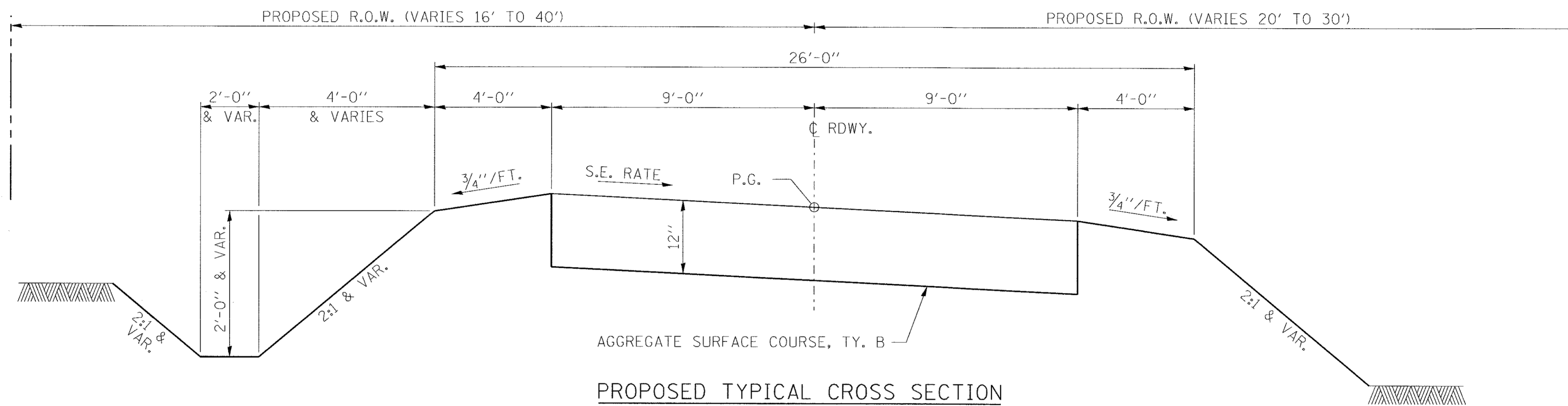
EROSION CONTROL SCHEDULE		
LOCATION	TEMPORARY DITCH CHECKS 28000305	PERIMETER EROSION BARRIER 28000400
	FOOT	FOOT
TR 274		
RT. STA 10+75	11	
RT. STA 11+50	11	
LT. STA 11+50	13	
RT. STA 12+00	11	
LT. STA 12+00	11	
RT. STA 12+50	11	
LT. STA 12+50	13	
RT. STA 6+50 TO RT. STA 9+31		281
LT. STA 6+84 TO LT. STA 9+47		263
LT. STA 10+64 TO LT. STA 11+50		86
TOTAL	81	630

EARTHWORK SCHEDULE							
LOCATION	EARTH EXCAVATION	CHANNEL EXCAVATION	SHRINKAGE FACTOR	PERCENT USED	EARTH EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT REQUIRED	EARTHWORK BALANCE
	20200100 CU.YD.	20300100 CU.YD.			CU.YD.	CU.YD.	CU.YD.
TR 274							
STA 6+50 TO STA 9+38.22	185		25.00%	100.00%	139	499	-360
STA 9+38.22 TO STA 10+57.76		540	25.00%	70.00%	284		284
STA 10+57.76 TO STA 13+13	431		25.00%	100.00%	323	105	218
TOTAL	615	540			746		142
USE	615	540					145

WASTE 145 CU YDS



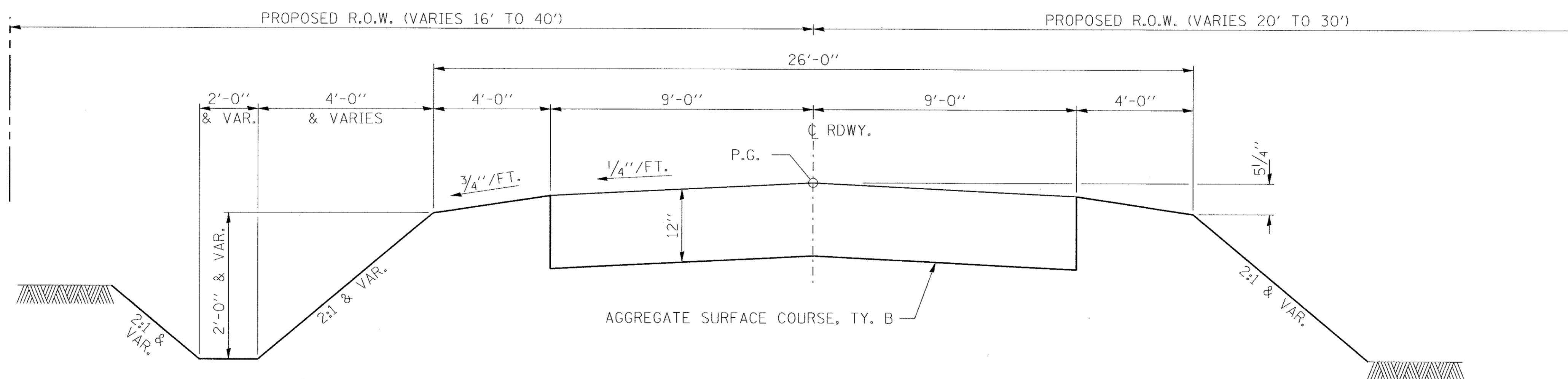
EXISTING TYPICAL CROSS SECTION
STA. 6+50 TO 13+50



PROPOSED TYPICAL CROSS SECTION
STA. 6+50 TO STA. 7+67
STA. 12+34 TO STA. 13+13

SUGGESTED CUT SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

SUGGESTED FILL SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS



PROPOSED TYPICAL CROSS SECTION
STA. 7+67 TO STA. 12+34

SUGGESTED CUT SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

SUGGESTED FILL SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

BRIDGE OMISSION: STA. 9+38.23 TO STA. 10+57.77
TRANSITION PROPOSED RT. SURFACE & SHOULDER FROM
STA. 6+50 TO STA. 6+74. TRANSITION PROPOSED
SURFACE FROM STA. 12+00 TO STA. 13+00.
SEE SHEET 6 FOR TRANSITION AT BRIDGE.

FILE NAME = 140220-sht-tysections.dgn	USER NAME = #USER#	DESIGNED - L.A.P.	REVISED -	STATE OF ILLINOIS VERMILION COUNTY HIGHWAY DEPARTMENT	TYPICAL CROSS SECTIONS			T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3080 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = #SCALE#	DRAWN - R.D.H.	REVISED -					274	09-03138-00-BR	VERMILION	40	3
ILLINOIS PROFESSIONAL DESIGN FIRM L8 / PE / SE CORP. 184.000959	PLOT DATE = 8/14/2017	CHECKED - S.W.M.	REVISED -		CARROLL ROAD DISTRICT			CONTRACT NO. 91528				
					SCALE:	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		ILLINOIS FED. AID PROJECT HVCN4631		

CURVE DATA
 PI STA. 6+65.86
 $\Delta = 59^\circ 44' 45''$ (RT)
 $D = 78^\circ 38' 08''$
 $T = 41.85'$
 $R = 72.86'$
 $L = 75.98'$
 $E = 11.16'$
 PC STA. 6+24.01
 PT STA. 6+99.99
 $S.E. = 4.0\%$
 S.E. TRANSITION:
 STA. 6+80 TO STA. 7+67

CURVE DATA
 PI STA. 5+97.34
 $\Delta = 29^\circ 53' 37''$ (RT)
 $D = 54^\circ 43' 46''$
 $T = 27.95'$
 $R = 104.69'$
 $L = 54.62'$
 $E = 3.67'$
 PC STA. 5+69.39
 PT STA. 6+24.01
 $S.E. = 4.0\%$

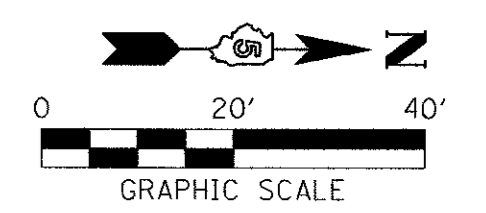
MILTON & NANCY DALENBERG
 SE 1/4, NE 1/4, SEC 15, T. 17 N., R. 12 W., 2ND P.M.

DENNIS JR & CHARTRUCE POWELL
 SE 1/4, NE 1/4, SEC 15, T. 17 N., R. 12 W., 2ND P.M.

P.O.T. STA. 7+99.74
 1/2" MAG NAIL (SET)
 N. 1190770.08
 E. 1163742.74

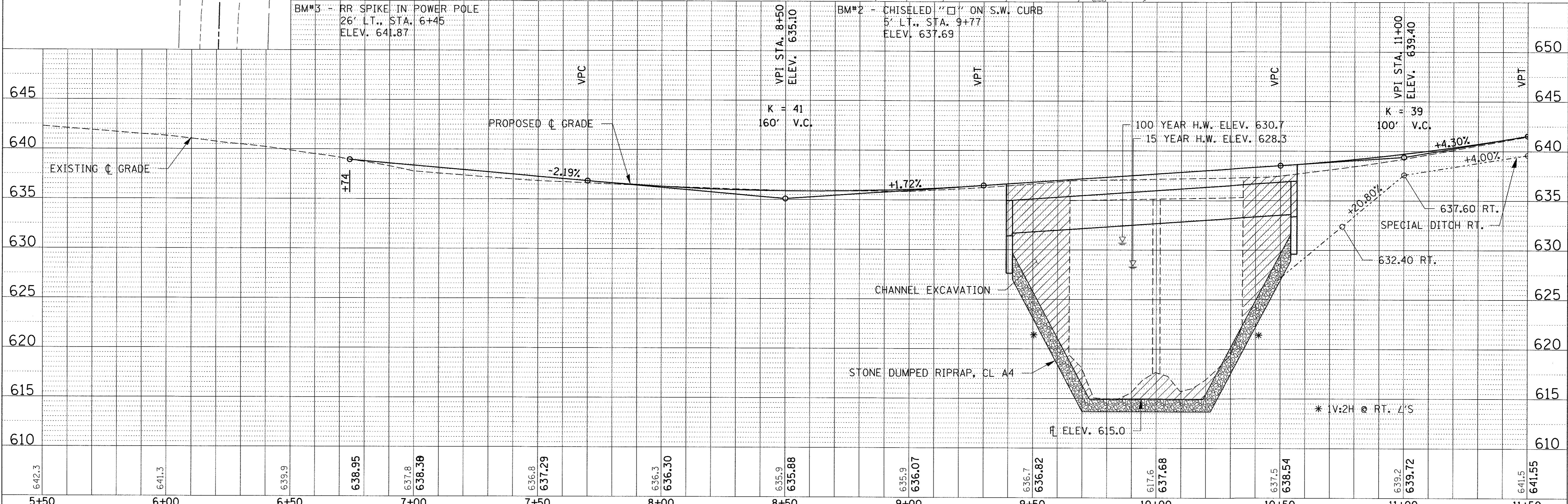
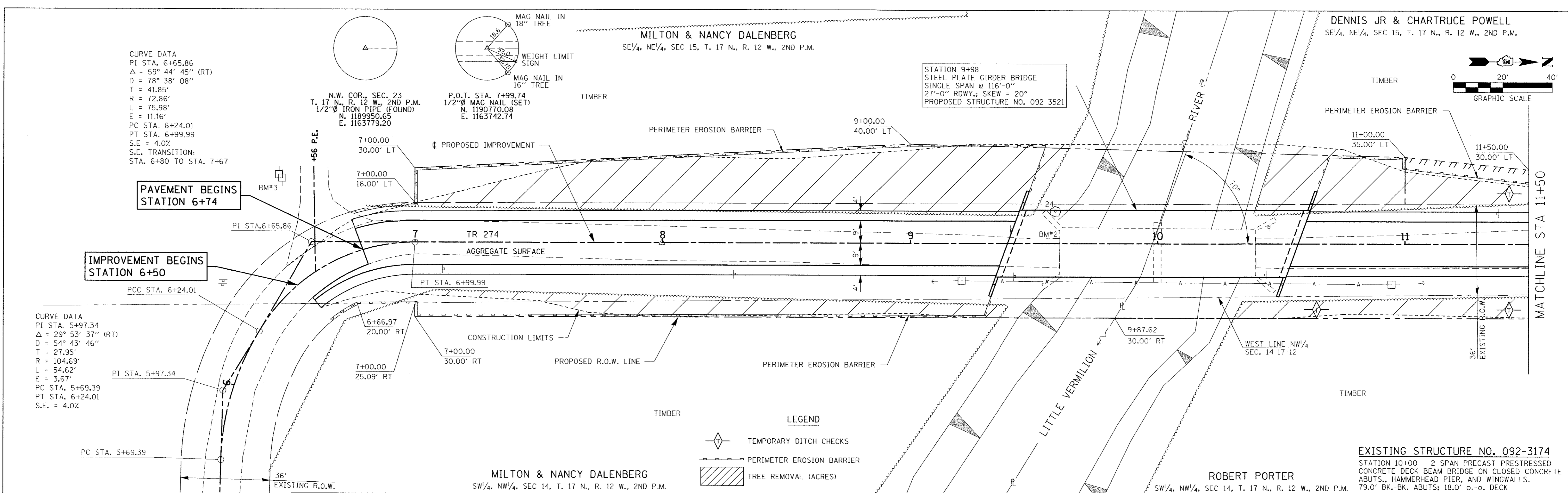
STATION 9+98
 STEEL PLATE GIRDER BRIDGE
 SINGLE SPAN @ 116'-0"
 27'-0" RDWY.; SKEW = 20°
 PROPOSED STRUCTURE NO. 092-3521

PERIMETER EROSION BARRIER



PLAN	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	CADD FILE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	CHECKED	
	BY	
	NO. OF WAY CHECKED	
	STRUCTURE NOTATIONS CHKD	
	NO.	



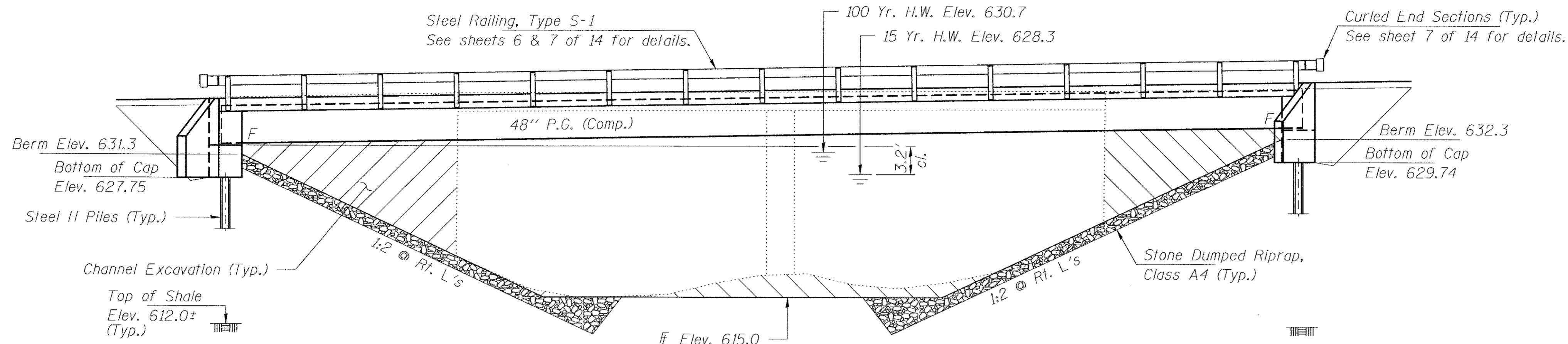
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HAMPTON, LENZINI AND RENWICK, INC. 3080 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 194.000959	PLOT SCALE = #SCALE#	DRAWN - L.G.C.	REVISED -		274	09-03138-00-BR	VERMILION	40	4		
PLOT DATE = 8/14/2017	CHECKED - S.W.M.	DATE - 08/14/17	REVISED -		SCALE: 20H:5V		SHEET NO. 1 OF 2 SHEETS		CONTRACT NO. 91528		
					STA. 5+50.00 TO STA. 11+50.00		ILLINOIS FED. AID PROJECT HVCN(463)				

BENCHMARK: Chiseled "□" on SW bridge curb. 7.7' Rt., Sta. 10+39.68, Elev. 637.69

EXISTING STRUCTURE NO. 092-3174: Sta. 10+00 - Two span precast prestressed concrete deck beam bridge on closed concrete abutments, hammerhead pier and wingwalls. 79.0' bk.-bk. abutts.; 18.0' o.-o. deck.

Structure will be closed to traffic during construction.

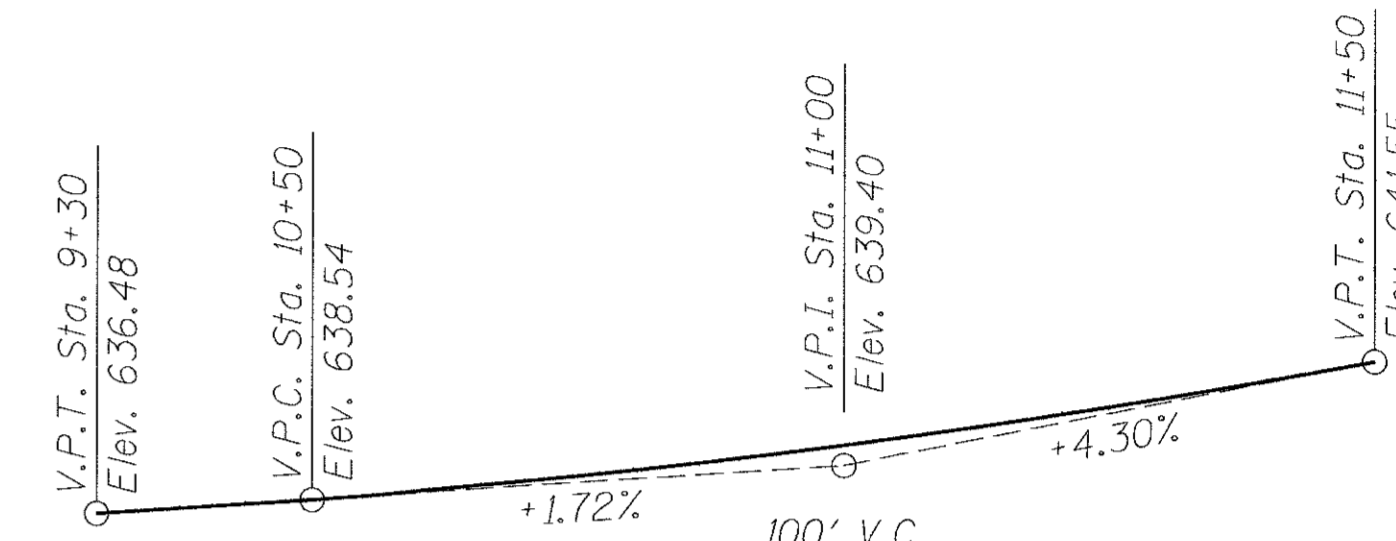
No Salvage



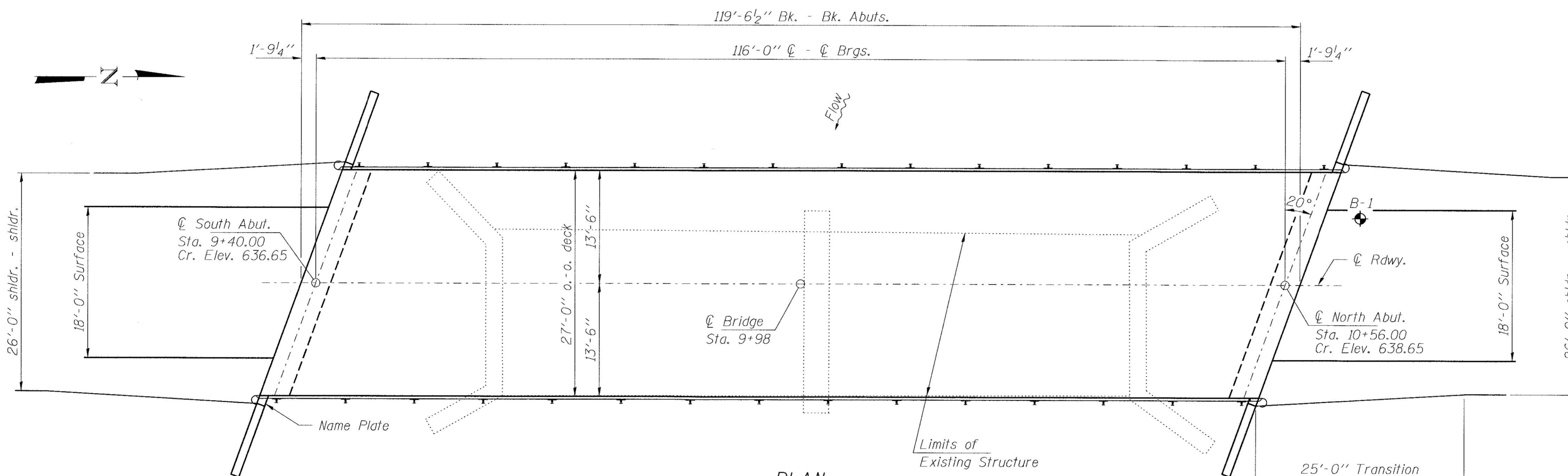
ELEVATION

INDEX OF STRUCTURE SHEETS

1. General Plan & Elevation
2. General Data
- 3-4. Top of Slab Elevations
5. Superstructure
6. Superstructure Details
7. Steel Railing, Type S-1
8. Structural Steel
- 9-10. Structural Steel Details
11. South Abutment
12. North Abutment
13. HP Pile Details
14. Boring



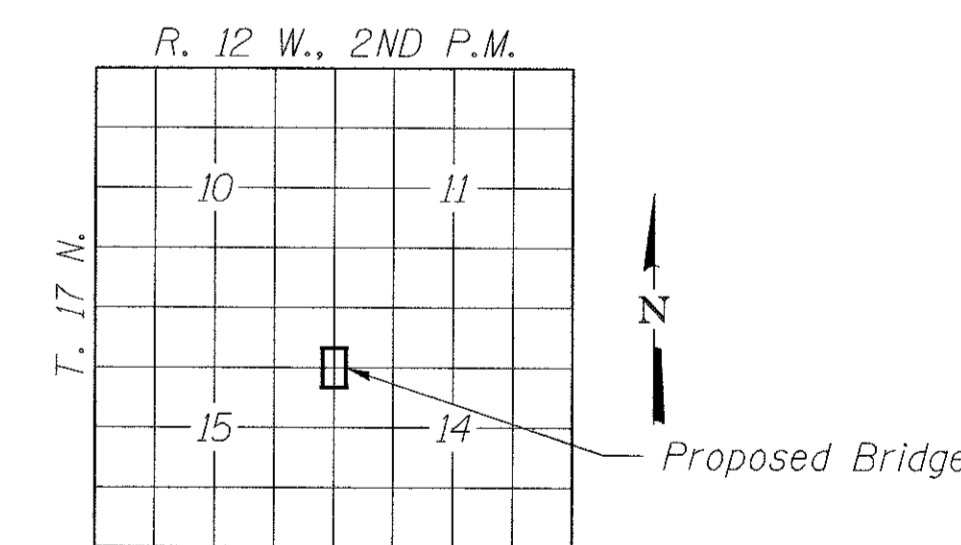
PROFILE GRADE
(along ϕ roadway)



PLAN

LITTLE VERMILION RIVER
BUILT 201 BY
VERMILION COUNTY
CARROLL ROAD DISTRICT
SEC. 09-03138-00-BR
STR. NO. 092-3521
LOADING HL-93

NAME PLATE
See Std. 515001



LOCATION SKETCH

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.141g
Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.252g
Soil Site Class = D

DESIGN SPECIFICATIONS

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

LOADING HL-93

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

DESIGN STRESSES

FIELD UNITS

f'_c = 4,000 psi (Superstructure)
 f'_c = 3,500 psi (Substructure)
 f_y = 60,000 psi (Reinf.)
 f_y = 50,000 psi (Structural Steel) (M270 Gr. 50W)

DESIGN SCOUR ELEVATION TABLE

Event / Limit State	Design Scour Elevations (ft.)		
	S. Abut.	N. Abut.	Item 113
Q100	627.8	629.8	8
Q200	627.8	629.8	
Design	627.8	629.8	
Check	627.8	629.8	

WATERWAY INFORMATION

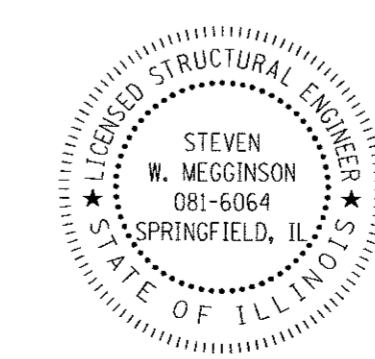
Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Head - Ft.		Headwater El.		
			Exist.	Prop.	Natural H.W.E.	Exist. Prop.	Exist.	Prop.	
Design	10	3900	710	830	627.68	0.29	0.26	627.97	627.94
Base	100	6850	910	1120	630.70	0.54	0.54	631.43	631.24
Max. Calc.	200	7720	960	1200	631.42	0.61	0.61	632.28	632.03

Existing Low Grade Elev. 635.9 @ Sta. 8+50
Proposed Low Grade Elev. 635.8 @ Sta. 8+50

10 Year Velocity Through Existing Bridge = 5.5 fps 10 Year Velocity Through Proposed Bridge = 4.7 fps

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 08/14/2017
ILLINOIS STRUCTURAL ENGINEER NO. 081-6064

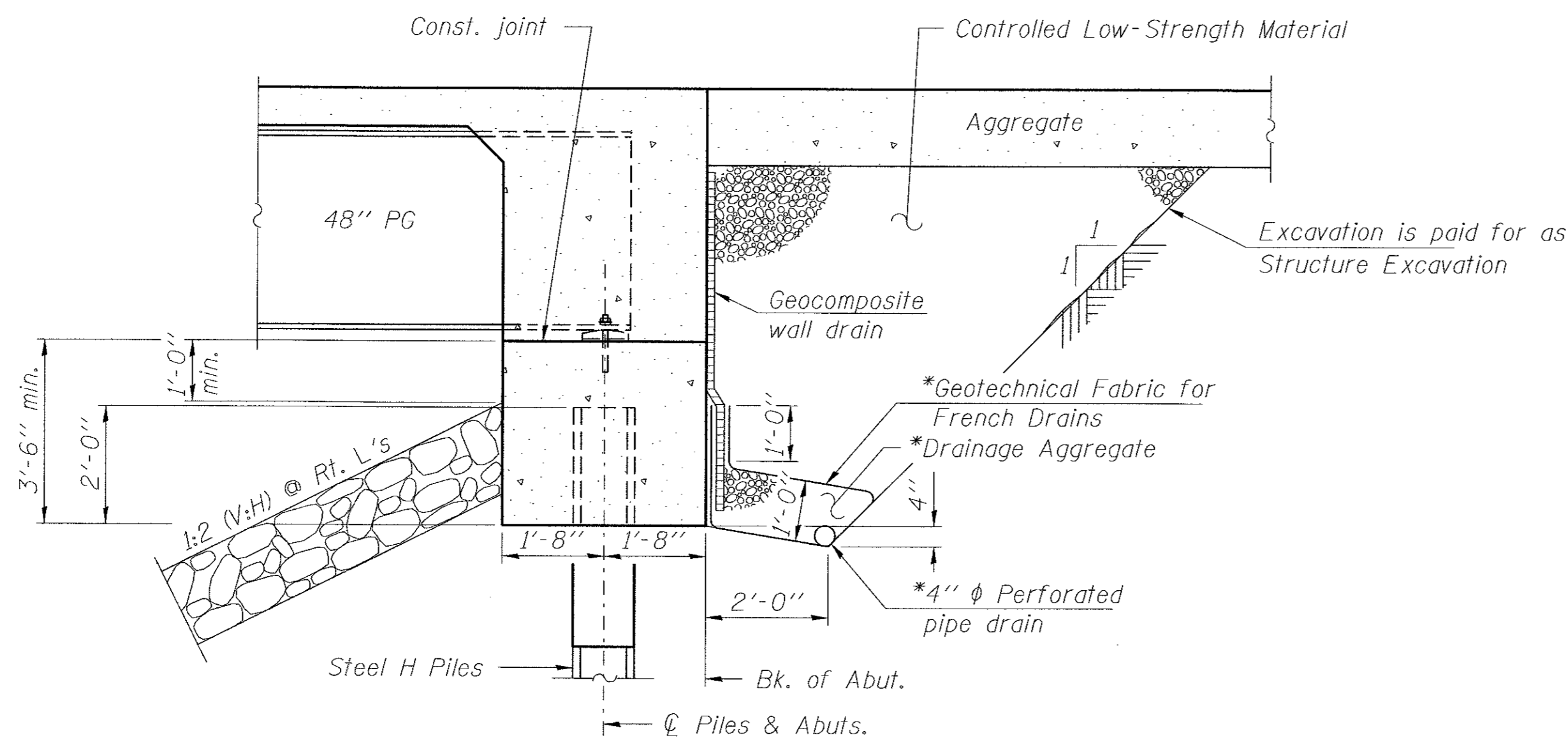


Expires 11-30-2018

GENERAL PLAN & ELEVATION

T.R. 274
SECTION 09-03138-00-BR
VERMILION COUNTY
STATION 9+98
STRUCTURE NO. 092-3521

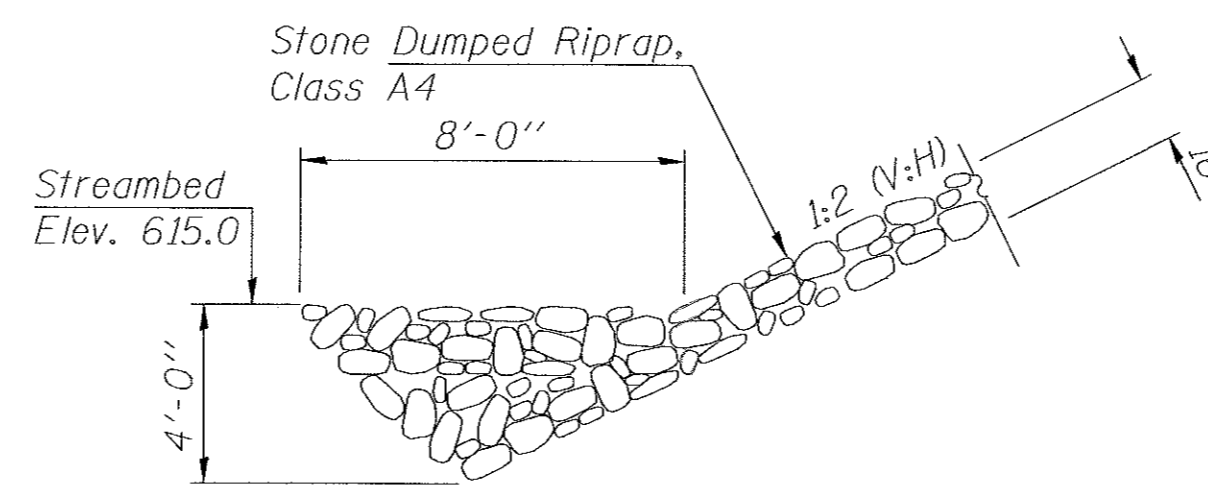
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3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 217.546.3400 www.hrlengineering.com		CHECKED - S.W.M.	REVISED -			274	09-03138-00-BR	VERMILION	40	6
194.000000 ILLINOIS PROFESSIONAL DESIGN FIRM LS/PE/SE CORPORATION	PLOT SCALE =	DRAWN - D.A.B.	REVISED -			CARROLL ROAD DISTRICT				CONTRACT NO. 91528
	PLOT DATE = 8/14/2017	CHECKED - S.W.M.	REVISED -			ILLINOIS FED. AID PROJECT HVN(463)				



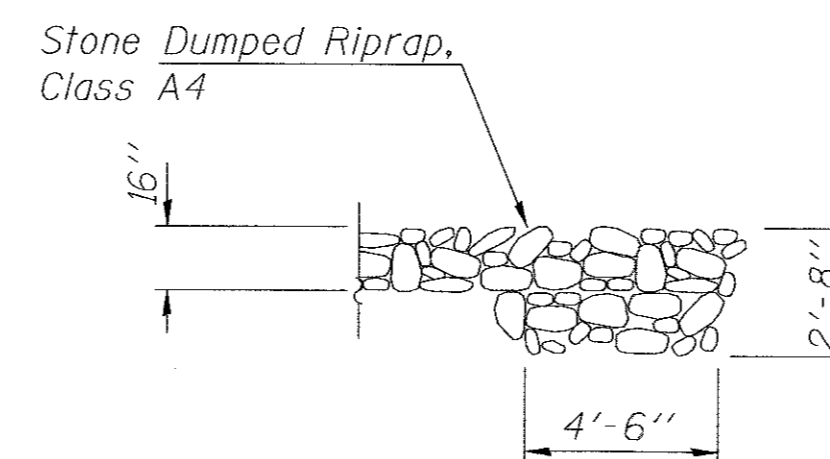
SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. @ Rt. L's)

*Included in the cost of Pipe Underdrains for Structures, 4"

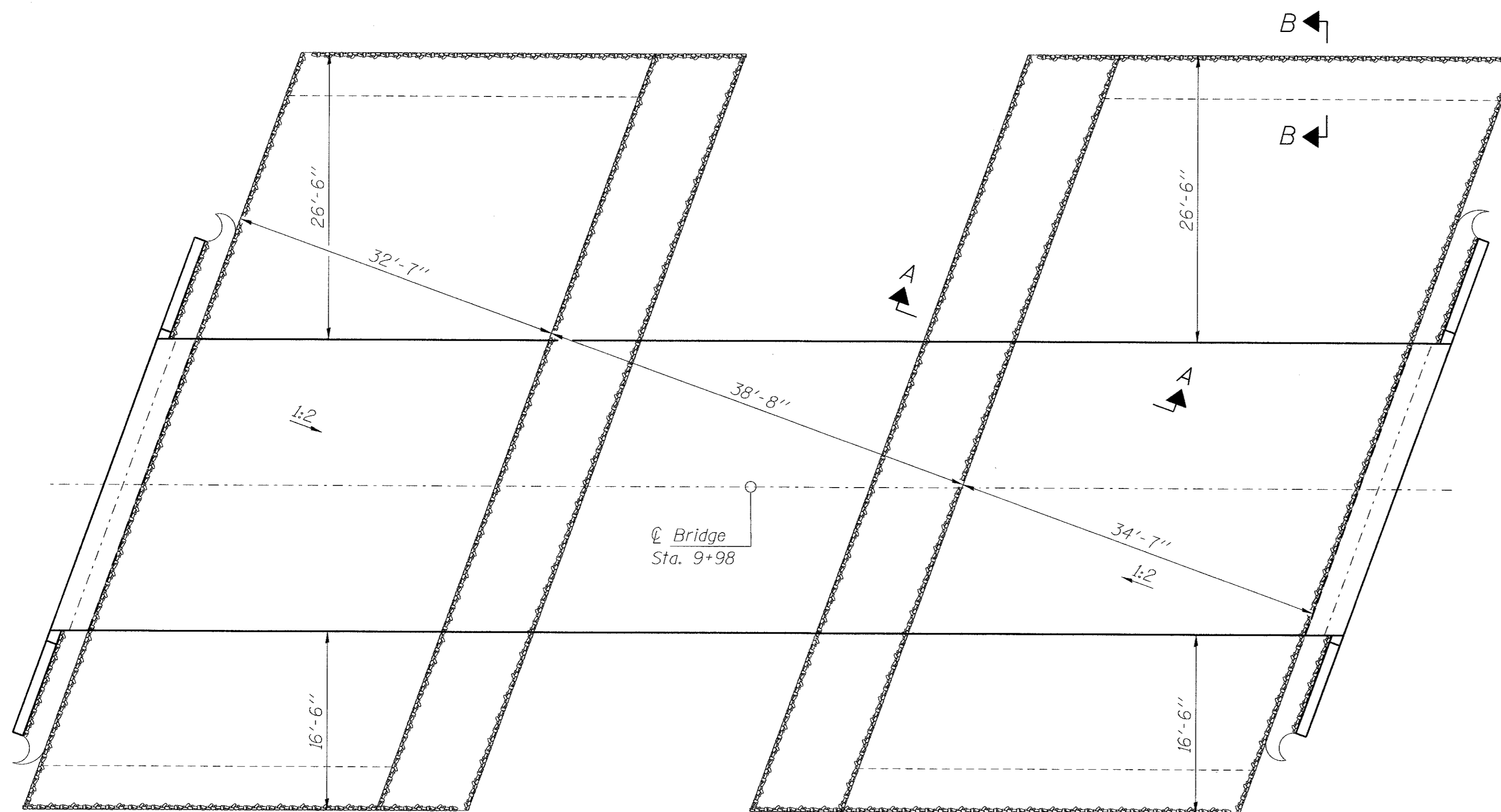
All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101). Concrete headwalls shall be included in the cost of Pipe Underdrains for Structures 4".



SECTION A-A



SECTION B-B



RIPRAP LAYOUT

GENERAL NOTES

Fasteners shall be ASTM A325 Type 1, mechanically galvanized bolts in painted areas and ASTM A325 Type 3 in unpainted areas. Bolts 3/8" diameter, holes 1/2" diameter, unless otherwise noted.
 Calculated weight of Structural Steel = 117,334 lbs.
 All structural steel shall be AASHTO M 270 Grade 50W.
 No field welding is permitted except as specified in the contract documents.
 Reinforcement bars designated (E) shall be epoxy coated.
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 Structural steel shall only be painted from distance equal to the depth of embedment into the concrete cap plus 18 inches. Painted areas shall be primed in the shop with a Department approved zinc rich primer. Field painting will not be required.
 Excavation behind existing abutment walls shall be performed to balance front and back soil pressure before removing the existing superstructure.
 The top surface of the deck shall be screeded with a straight edge. Further finishing shall be delayed until the water sheen appears, but not to the point of rendering further manipulation ineffective. The surface then shall be roughened with a suitable stiff-bristled broom or wire brush drawn in transverse direction removing any laitance present and breaking up the water sheen. The corrugations formed shall be uniform in appearance and in no case more than 1/4" in depth.

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.			540
Stone Dumped Riprap, Class A4	Ton			760
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		204	204
Concrete Structures	Cu. Yd.		36.0	36.0
Concrete Superstructure	Cu. Yd.	123.0		123.0
Protective Coat	Sq. Yd.	410	34	444
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	885		885
Reinforcement Bars, Epoxy Coated	Pound	22,170	6,680	28,850
Steel Railing, Type S1	Foot	235		235
Furnishing Steel Piles HP10x42	Foot		250	250
Driving Piles	Foot		250	250
Test Pile Steel HP10x42	Each		2	2
Pile Shoes	Each		12	12
Name Plates	Each		1	1
Anchor Bolts, 1"	Each		20	20
Geocomposite Wall Drain	Sq. Yd.			71
Controlled Low-Strength Material	Cu. Yd.			148
Pipe Underdrains for Structures 4"	Foot			168
Concrete Cut-off Wall	Cu. Yd.		8.6	8.6

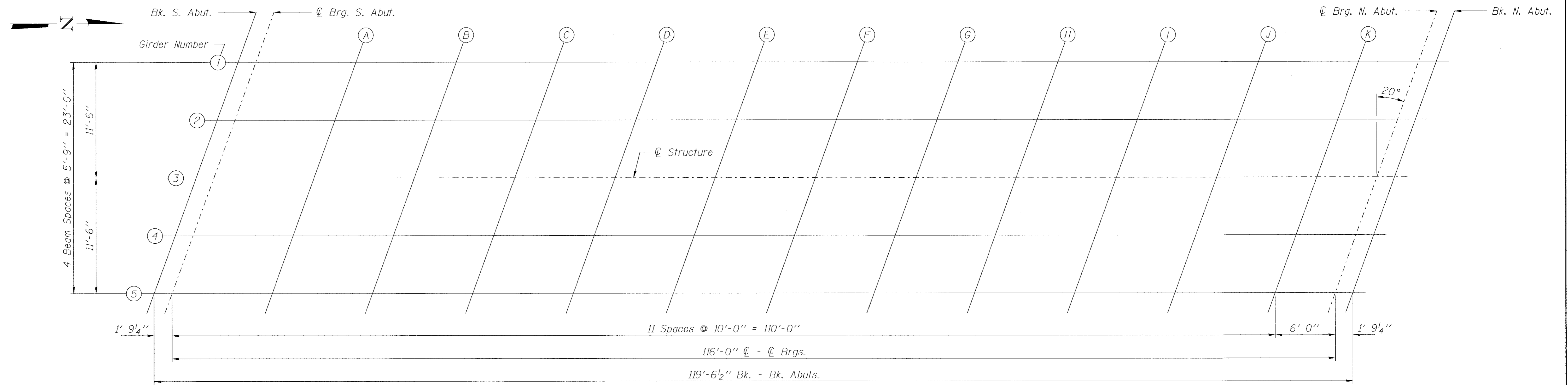
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3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 217.546.3400 www.hireengineering.com		CHECKED - S.W.M.	REVISED -
114-000959 ILLINOIS PROFESSIONAL DESIGN FIRM L8 / PE / SE CORPORATION	PLOT SCALE =	DRAWN - D.A.B.	REVISED -
	PLOT DATE = 8/14/2017	CHECKED - S.W.M.	REVISED -

**STATE OF ILLINOIS
VERMILION COUNTY HIGHWAY DEPARTMENT**

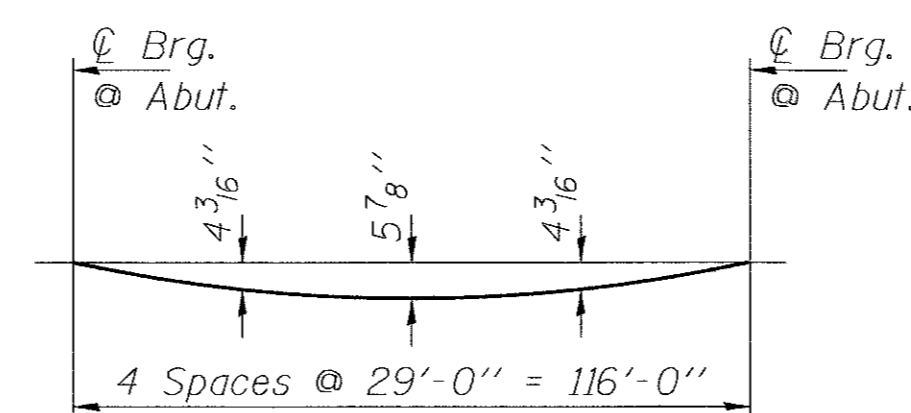
**GENERAL DATA
STRUCTURE NO. 092-3521**

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
274	09-03138-00-BR	VERMILION	40	7
CARROLL ROAD DISTRICT		CONTRACT NO. 91528		
ILLINOIS FED. AID PROJECT HVCN463				

SHEET NO. 2 OF 14 SHEETS



PLAN

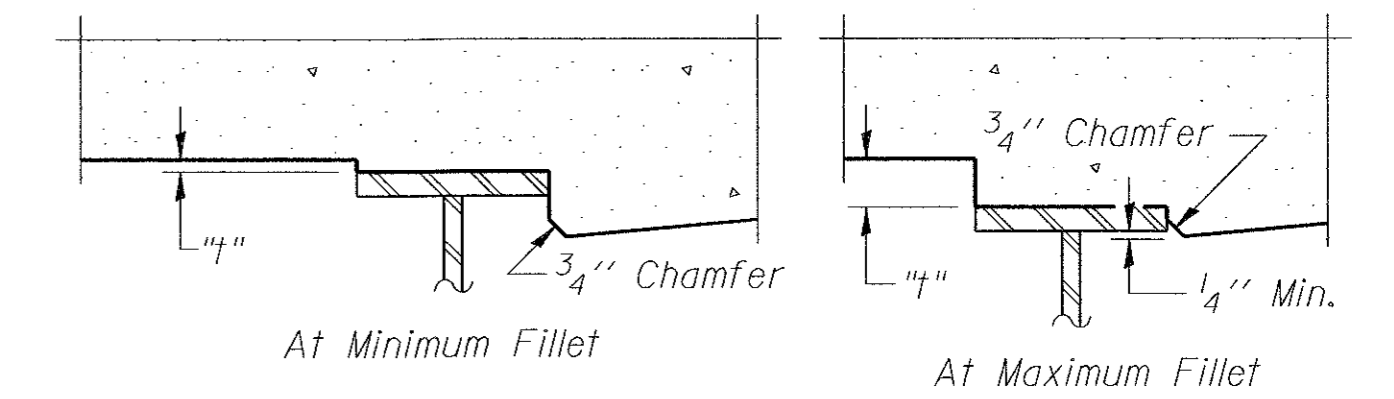


DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on sheet 4 of 14.



To determine "t": After all structural steel has been erected, elevations of the top flanges of the beams shall be taken at intervals shown above. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflection" shown on sheet 4 of 14, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

FILE NAME = 1402200-sht-bridg.dgn	USER NAME =	DESIGNED - D.W.T.	REVISED -	STATE OF ILLINOIS VERMILION COUNTY HIGHWAY DEPARTMENT	TOP OF SLAB ELEVATIONS STRUCTURE NO. 092-3521	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3086 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 217.546.3400 www.hireengineering.com		CHECKED - S.W.M.	REVISED -			274	09-03138-00-BR	VERMILION	40	8
184.000950 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION	PLOT SCALE =	DRAWN - D.A.B.	REVISED -			CARROLL ROAD DISTRICT		CONTRACT NO. 91528		
	PLOT DATE = 8/14/2017	CHECKED - S.W.M.	REVISED -			SHEET NO. 3 OF 14 SHEETS		ILLINOIS FED. AID PROJECT HVGN4633		

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	9+42.41	-11.50	636.45	636.45
☉ Brg. S. Abut.	9+44.19	-11.50	636.48	636.48
A	9+54.19	-11.50	636.65	636.76
B	9+64.19	-11.50	636.82	637.03
C	9+74.19	-11.50	637.00	637.28
D	9+84.19	-11.50	637.17	637.51
E	9+94.19	-11.50	637.34	637.72
F	10+04.19	-11.50	637.51	637.90
G	10+14.19	-11.50	637.68	638.05
H	10+24.19	-11.50	637.86	638.18
I	10+34.19	-11.50	638.03	638.28
J	10+44.19	-11.50	638.20	638.37
K	10+54.19	-11.50	638.37	638.44
☉ Brg. N. Abut.	10+60.19	-11.50	638.49	638.49
Bk. N. Abut.	10+61.96	-11.50	638.52	638.52

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	9+40.32	-5.75	636.53	636.53
☉ Brg. S. Abut.	9+42.09	-5.75	636.56	636.56
A	9+52.09	-5.75	636.74	636.84
B	9+62.09	-5.75	636.91	637.11
C	9+72.09	-5.75	637.08	637.36
D	9+82.09	-5.75	637.25	637.60
E	9+92.09	-5.75	637.42	637.80
F	10+02.09	-5.75	637.60	637.98
G	10+12.09	-5.75	637.77	638.14
H	10+22.09	-5.75	637.94	638.26
I	10+32.09	-5.75	638.11	638.37
J	10+42.09	-5.75	638.28	638.45
K	10+52.09	-5.75	638.46	638.52
☉ Brg. N. Abut.	10+58.09	-5.75	638.57	638.57
Bk. N. Abut.	10+59.87	-5.75	638.60	638.60

☉ STRUCTURE & BEAM 3

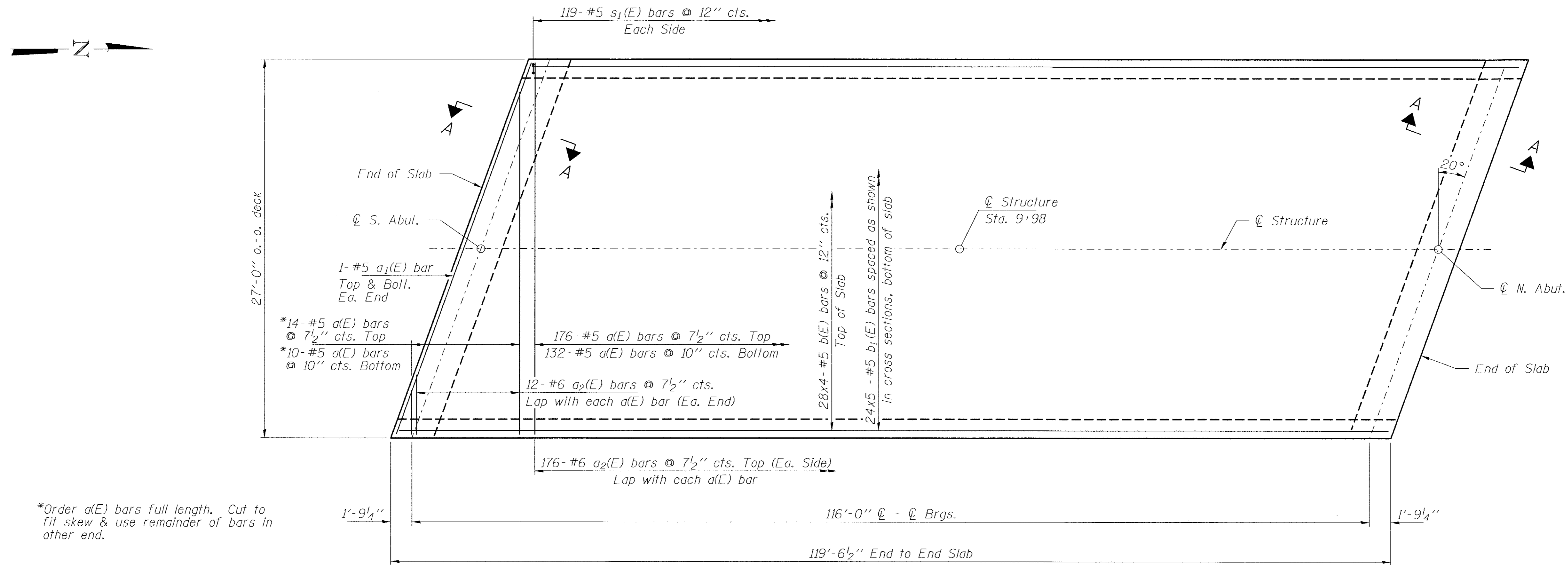
Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	9+38.23	0.00	636.62	636.62
☉ Brg. S. Abut.	9+40.00	0.00	636.65	636.65
A	9+50.00	0.00	636.82	636.93
B	9+60.00	0.00	636.99	637.19
C	9+70.00	0.00	637.16	637.45
D	9+80.00	0.00	637.34	637.68
E	9+90.00	0.00	637.51	637.89
F	10+00.00	0.00	637.68	638.07
G	10+10.00	0.00	637.85	638.22
H	10+20.00	0.00	638.02	638.35
I	10+30.00	0.00	638.20	638.45
J	10+40.00	0.00	638.37	638.53
K	10+50.00	0.00	638.54	638.60
☉ Brg. N. Abut.	10+56.00	0.00	638.65	638.65
Bk. N. Abut.	10+57.77	0.00	638.68	638.68

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	9+36.13	5.75	636.46	636.46
☉ Brg. S. Abut.	9+37.91	5.75	636.49	636.49
A	9+47.91	5.75	636.66	636.77
B	9+57.91	5.75	636.84	637.04
C	9+67.91	5.75	637.01	637.29
D	9+77.91	5.75	637.18	637.52
E	9+87.91	5.75	637.35	637.73
F	9+97.91	5.75	637.52	637.91
G	10+07.91	5.75	637.70	638.06
H	10+17.91	5.75	637.87	638.19
I	10+27.91	5.75	638.04	638.29
J	10+37.91	5.75	638.21	638.38
K	10+47.91	5.75	638.38	638.45
☉ Brg. N. Abut.	10+53.91	5.75	638.49	638.49
Bk. N. Abut.	10+55.68	5.75	638.52	638.52

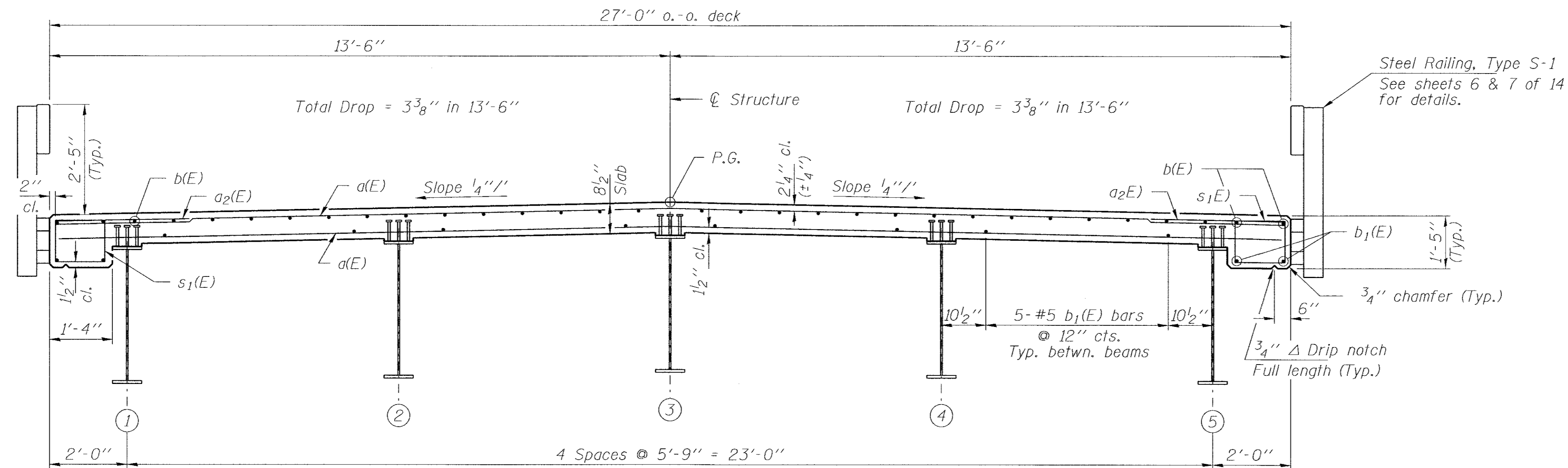
BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	9+34.04	11.50	636.31	636.31
☉ Brg. S. Abut.	9+35.81	11.50	636.34	636.34
A	9+45.81	11.50	636.51	636.61
B	9+55.81	11.50	636.68	636.88
C	9+65.81	11.50	636.85	637.14
D	9+75.81	11.50	637.02	637.37
E	9+85.81	11.50	637.20	637.58
F	9+95.81	11.50	637.37	637.76
G	10+05.81	11.50	637.54	637.91
H	10+15.81	11.50	637.71	638.03
I	10+25.81	11.50	637.88	638.14
J	10+35.81	11.50	638.06	638.22
K	10+45.81	11.50	638.23	638.29
☉ Brg. N. Abut.	10+51.81	11.50	638.33	638.33
Bk. N. Abut.	10+53.59	11.50	638.36	638.36



PLAN

Notes:
 See sheet 6 of 14 for superstructure details.
 Bars indicated thus 24x5-#5 etc. indicates 24 lines of bars with 5 lengths per line.
 See sheet 6 of 14 for Section A-A.

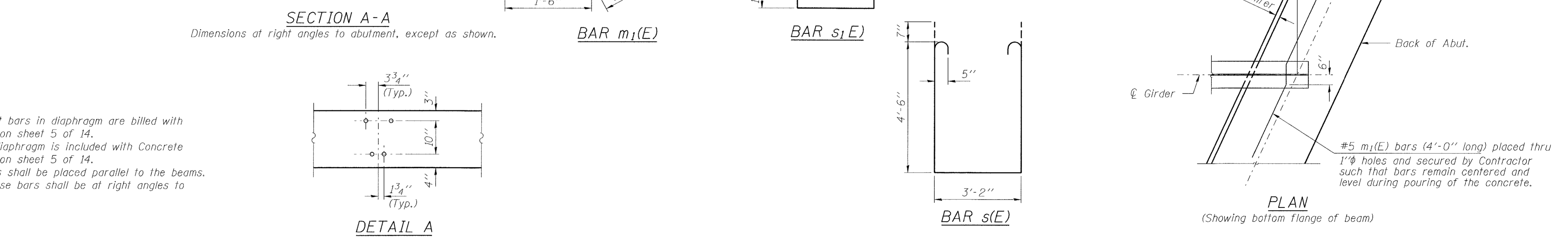
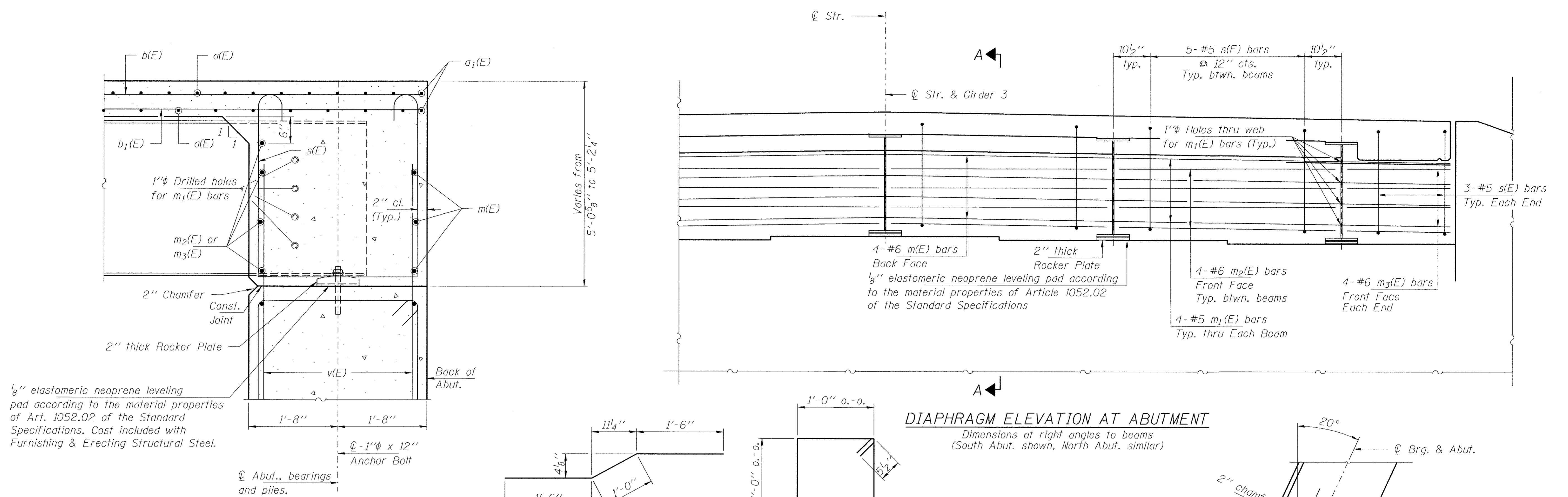


CROSS SECTION
(Looking North)

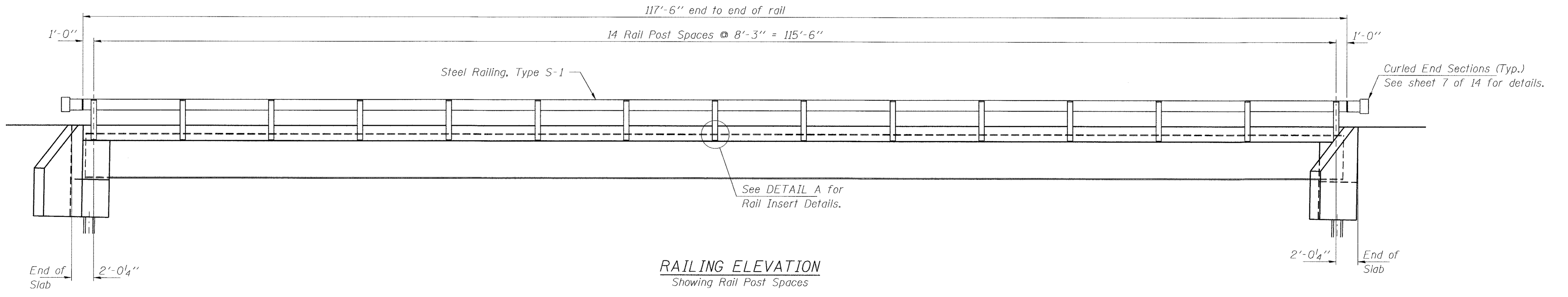
MIN. BAR LAP
 #5 bars = 3'-6"

SUPERSTRUCTURE
 BILL OF MATERIAL

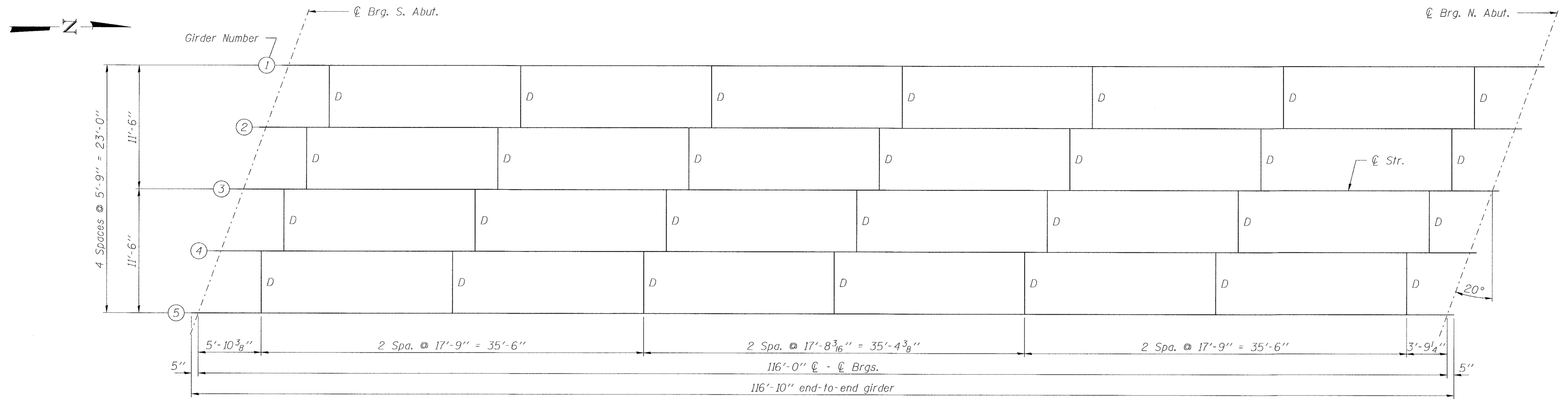
BAR	NO.	SIZE	LENGTH	SHAPE
a(E)	332	#5	26'-8"	—
a1(E)	4	#5	28'-4"	—
a2(E)	376	#6	5'-2"	—
b(E)	112	#5	32'-6"	—
b1(E)	120	#5	26'-8"	—
m(E)	8	#6	28'-4"	—
m1(E)	40	#5	4'-0"	—
m2(E)	32	#6	5'-9"	—
m3(E)	16	#6	1'-9"	—
s(E)	52	#5	13'-4"	□
s1(E)	238	#5	4'-11"	□
Concrete Superstructure			Cu. Yd.	123.0
Protective Coat			Sq. Yd.	410
Reinforcement Bars, Epoxy Coated			Pound	22,170



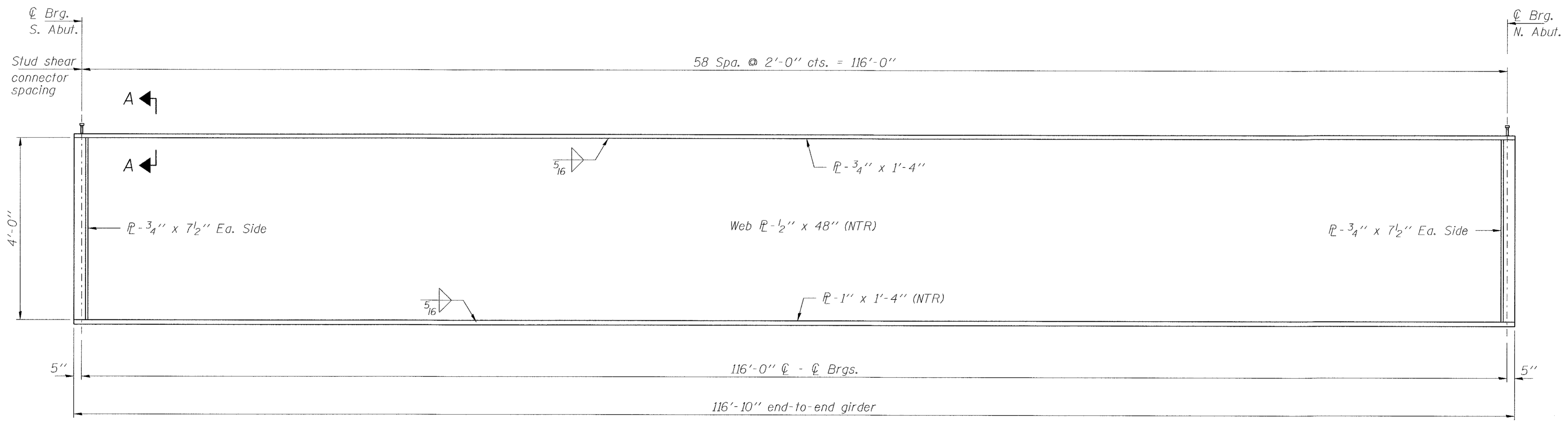
Notes:
 Reinforcement bars in diaphragm are billed with Superstructure on sheet 5 of 14.
 Concrete in diaphragm is included with Concrete Superstructure on sheet 5 of 14.
 The $s(E)$ bars shall be placed parallel to the beams.
 Spacing for these bars shall be at right angles to the beams.



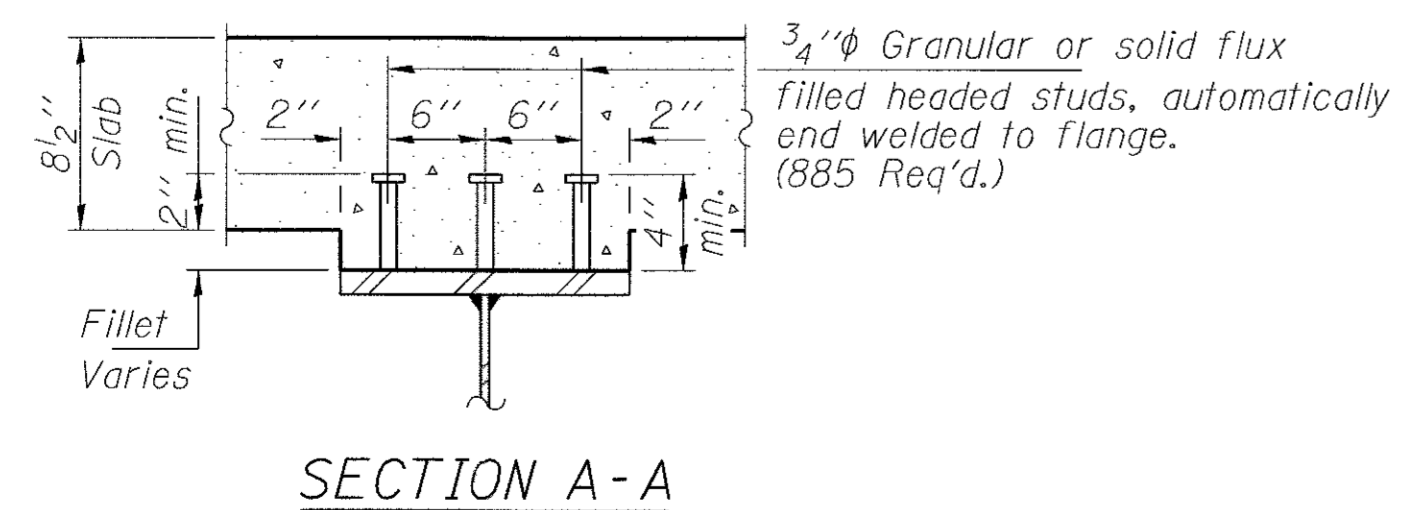
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3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 217.546.3400 www.jhrengineering.com	PLOT SCALE =	CHECKED - S.W.M.	REVISED -			274	09-03138-00-BR	VERMILION	40	11
184.000959 ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE CORPORATION	PLOT DATE = 8/14/2017	DRAWN - D.A.B.	REVISED -			CARROLL ROAD DISTRICT	CONTRACT NO. 91528	ILLINOIS	FED. AID PROJECT HVCN463J	
		CHECKED - S.W.M.	REVISED -							



FRAMING PLAN



GIRDER ELEVATION

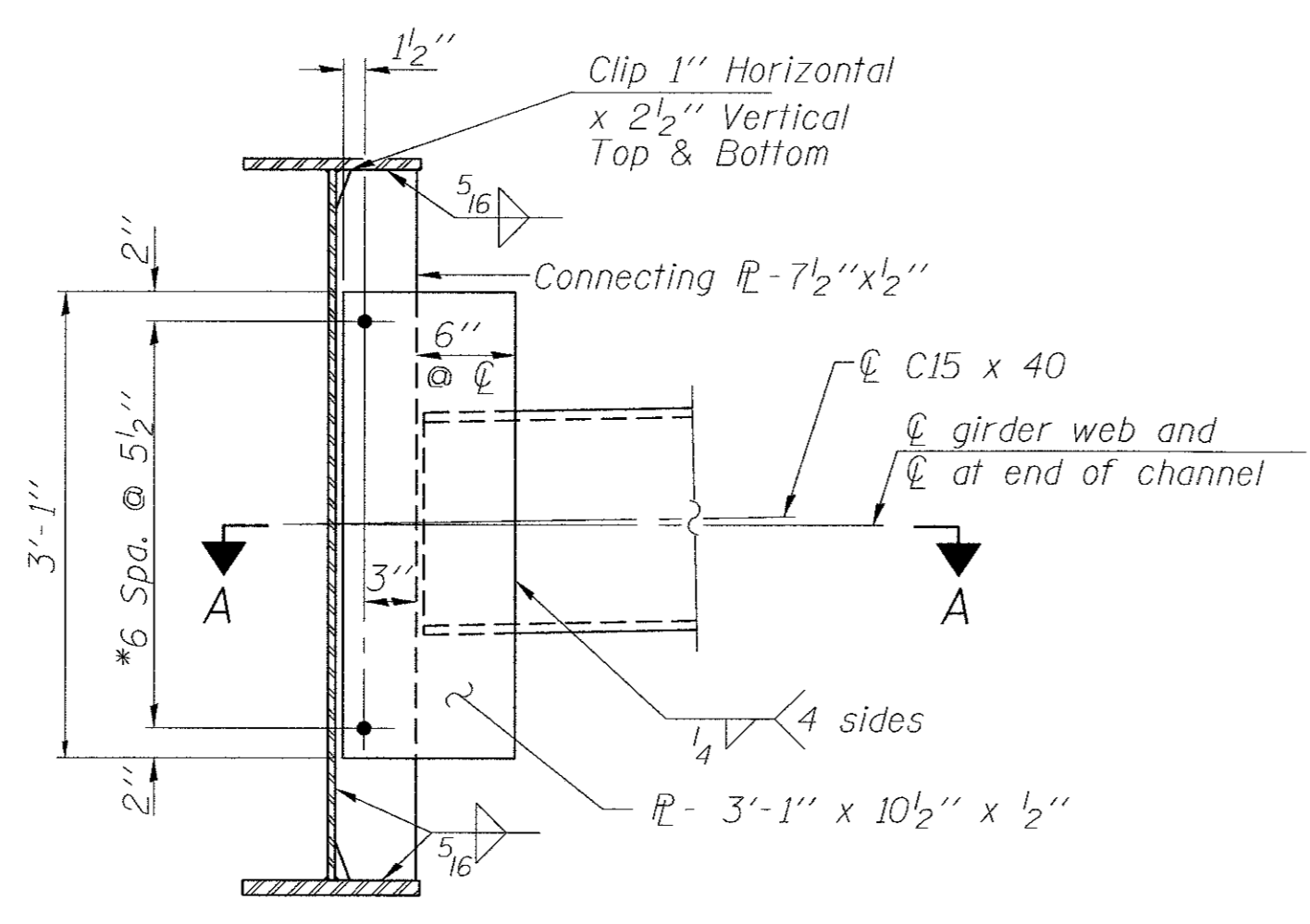
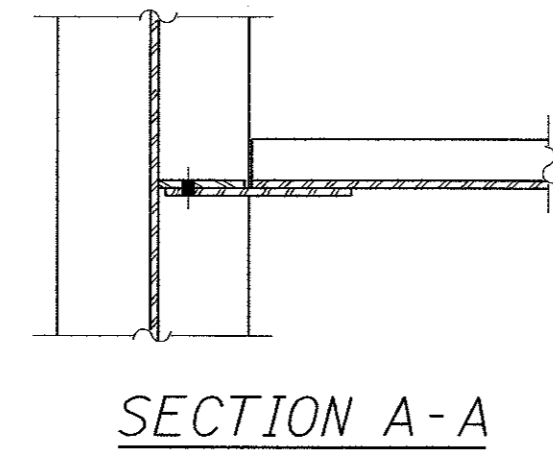


SECTION A-A

Notes:
 Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.
 All girders and spllices, including bearing stiffeners and diaphragms shall be AASHTO M270, Grade 50W.
 For additional structural steel details see sheets 9 & 10 of 14.
 All cross frames and diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.

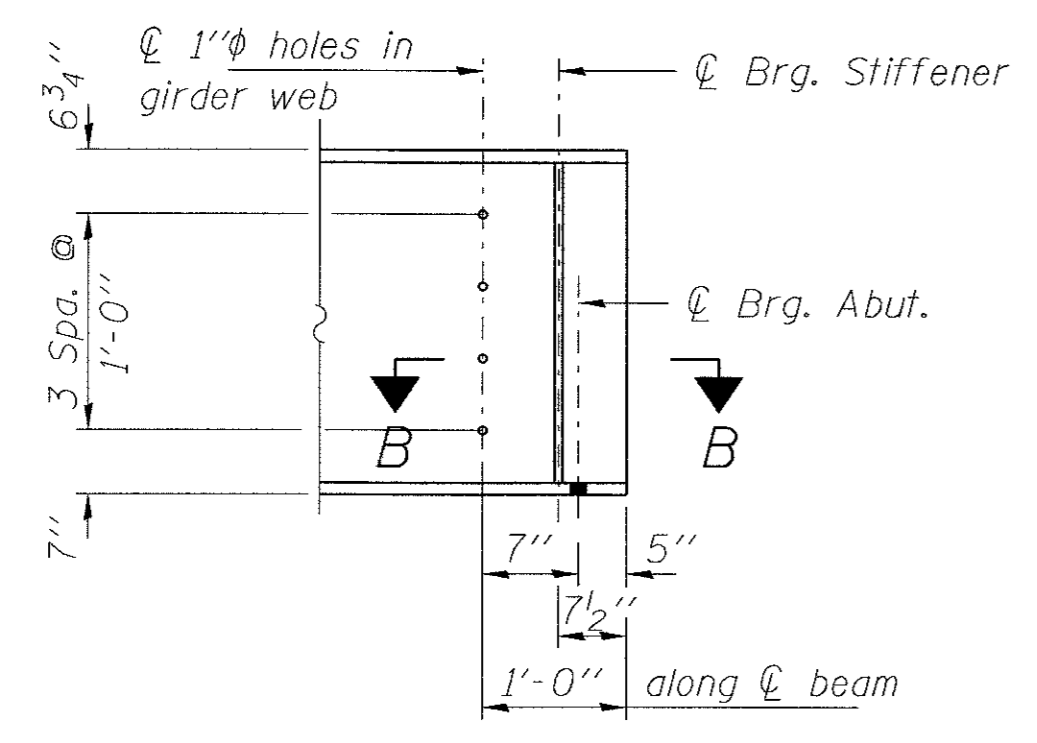
Location	☉ Brg. S. Abut.	☉ Brg. N. Abut.
BEAM 1	635.65	637.65
BEAM 2	635.73	637.73
BEAM 3	635.81	637.81
BEAM 4	635.65	637.65
BEAM 5	635.50	637.50

TOP OF WEB ELEVATIONS
 (For fabrication only)
 (Does not include Dead Load Deflections)

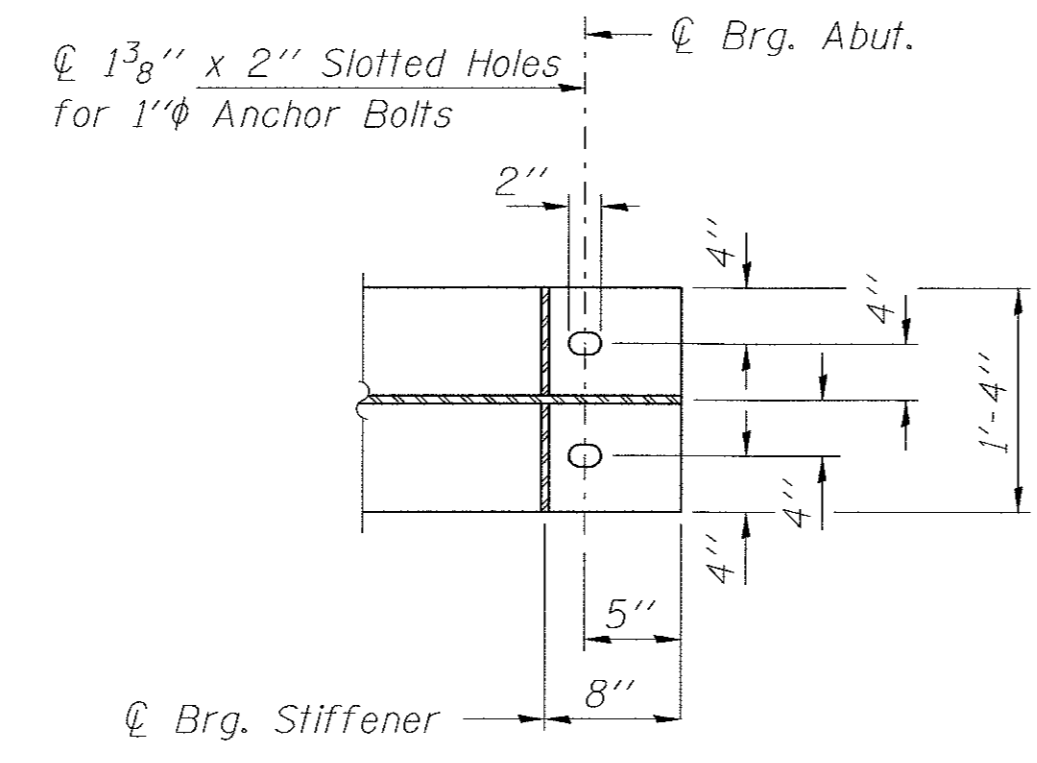


INTERIOR DIAPHRAGM D
(28 required)

Note:
Two hardened washers required for each set of oversized holes.
*3/4" φ HS bolts, 15/16" φ holes



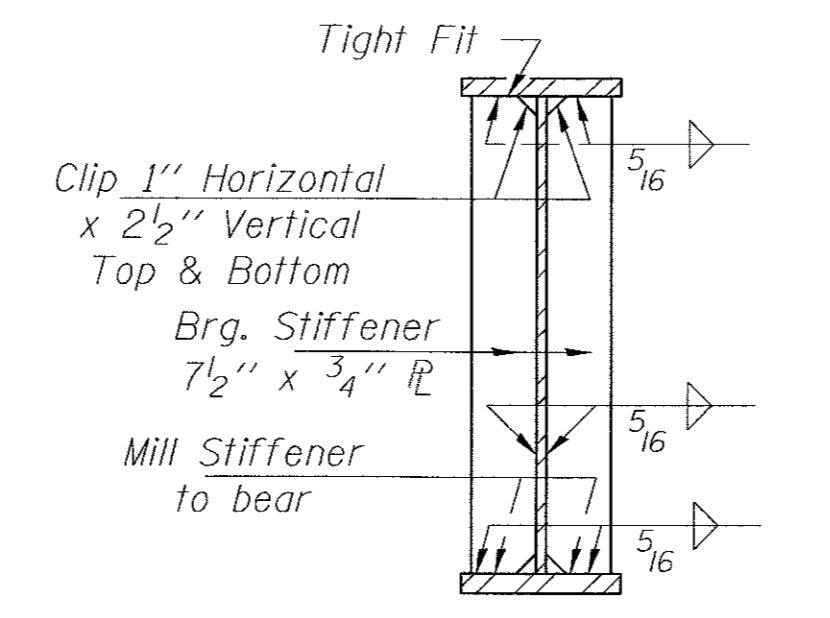
TYP. END OF GIRDER ELEVATION



SECTION B-B

INTERIOR GIRDER MOMENT TABLE		
0.5 Sp. 1		
I_s	(in ⁴)	21,153
$I_c(n)$	(in ⁴)	53,213
$I_c(3n)$	(in ⁴)	38,970
$I_c(cr)$	(in ⁴)	23,958
S_s	(in ³)	916
$S_c(n)$	(in ³)	1,259
$S_c(3n)$	(in ³)	1,152
$S_c(cr)$	(in ³)	774
DC1	(k/')	0.89
M _{DC1}	(k)	1,492
DC2	(k/')	0.03
M _{DC2}	(k)	51
DW	(k/')	0.29
M _{DW}	(k)	484
LLDF		0.4888
M _{± + IM}	(k)	1,702
M _u (Strength I)	(k)	5,633
φ _r M _n	(k)	6,306
f _s DC1	(ksi)	19.5
f _s DC2	(ksi)	0.5
f _s DW	(ksi)	5.0
f _s (± + IM)	(ksi)	16.2
f _s (Service II)	(ksi)	46.2
0.95R _h F _{yr}	(ksi)	47.5
f _s (Total)(Strength I)	(ksi)	-
φ _r F _n	(ksi)	-
V _r	(k)	27.7

	GIRDER REACTION TABLE	
	Abutment	
	Interior	Exterior
LLDF	0.6997	0.5642
OCF	-	1.08
R _{DC1}	(k) 51.5	46.2
R _{DC2}	(k) 1.8	1.8
R _{DW}	(k) 16.7	14.1
R _±	(k) 72.3	58.4
R _{Im}	(k) 15.3	12.3
R _{Total}	(k) 157.6	132.8



SECTION AT ABUTMENT BEARING STIFFENER PL'S

I_s, S_s : Non-composite moment of inertia and section modulus of the steel section used for computing f_s (Total-Strength I, and Service II) due to non-composite dead loads (in⁴ and in³).

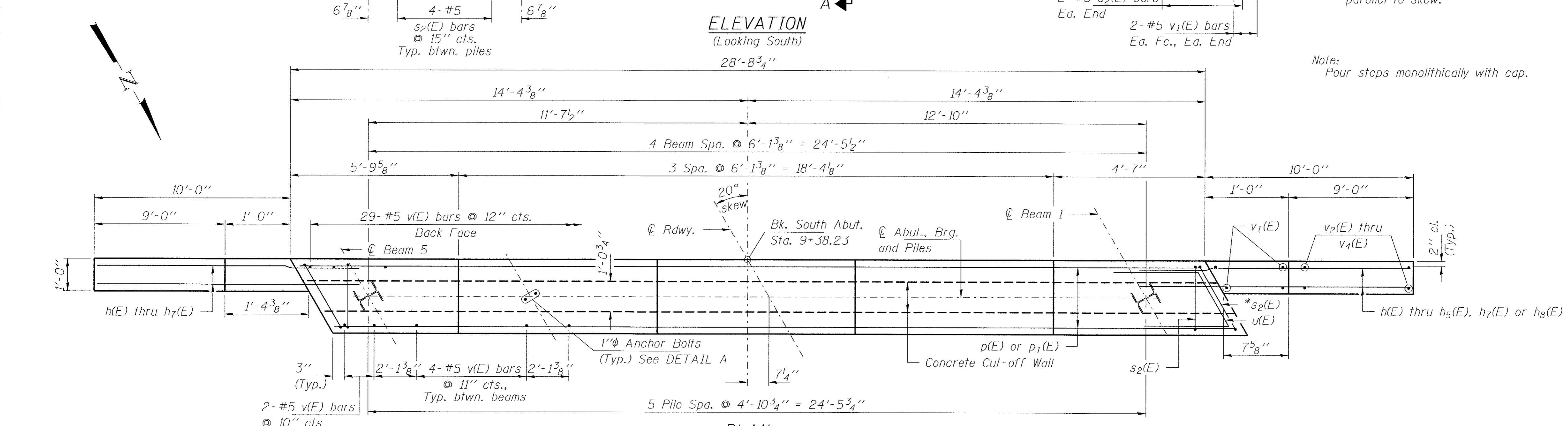
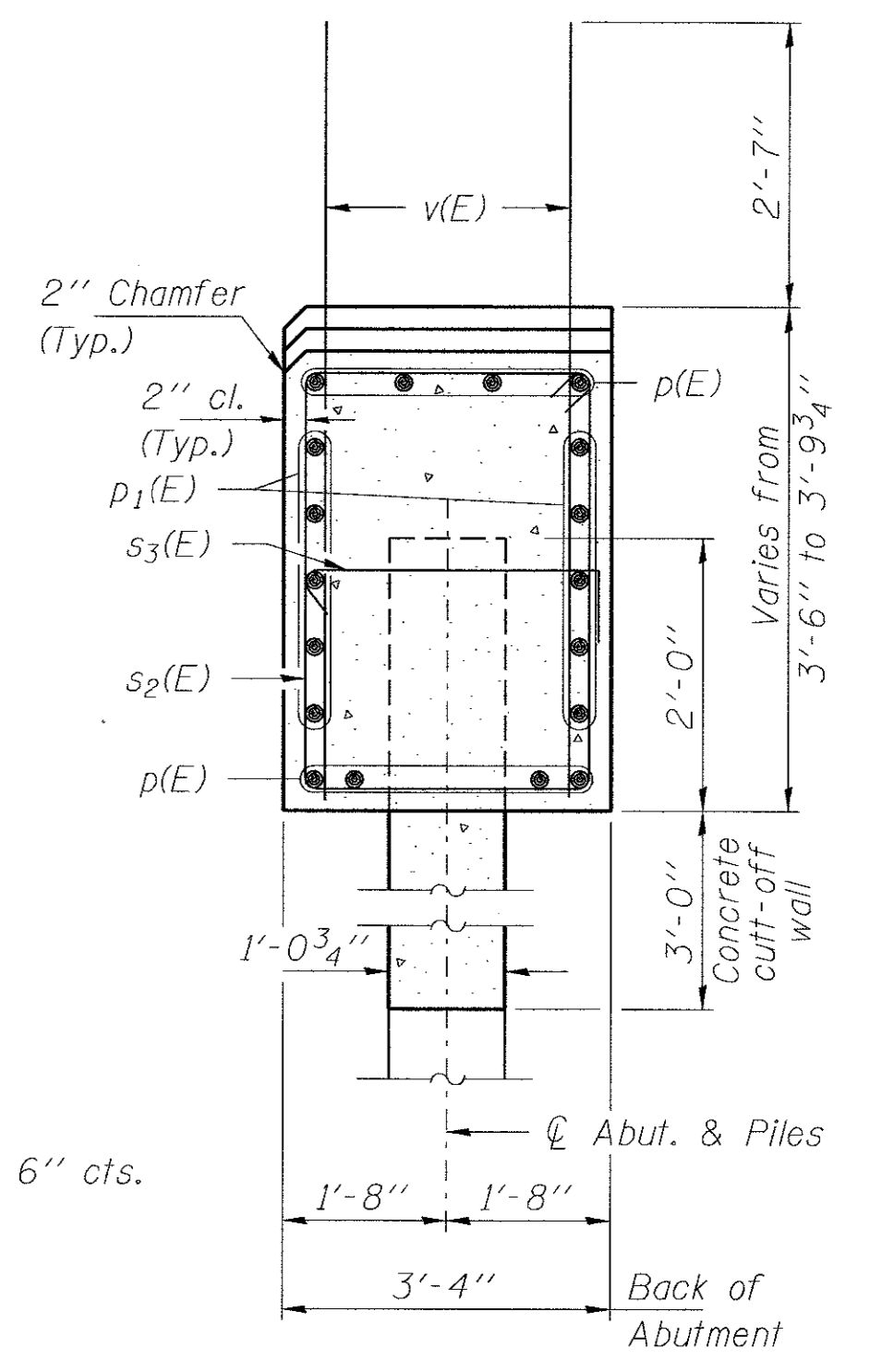
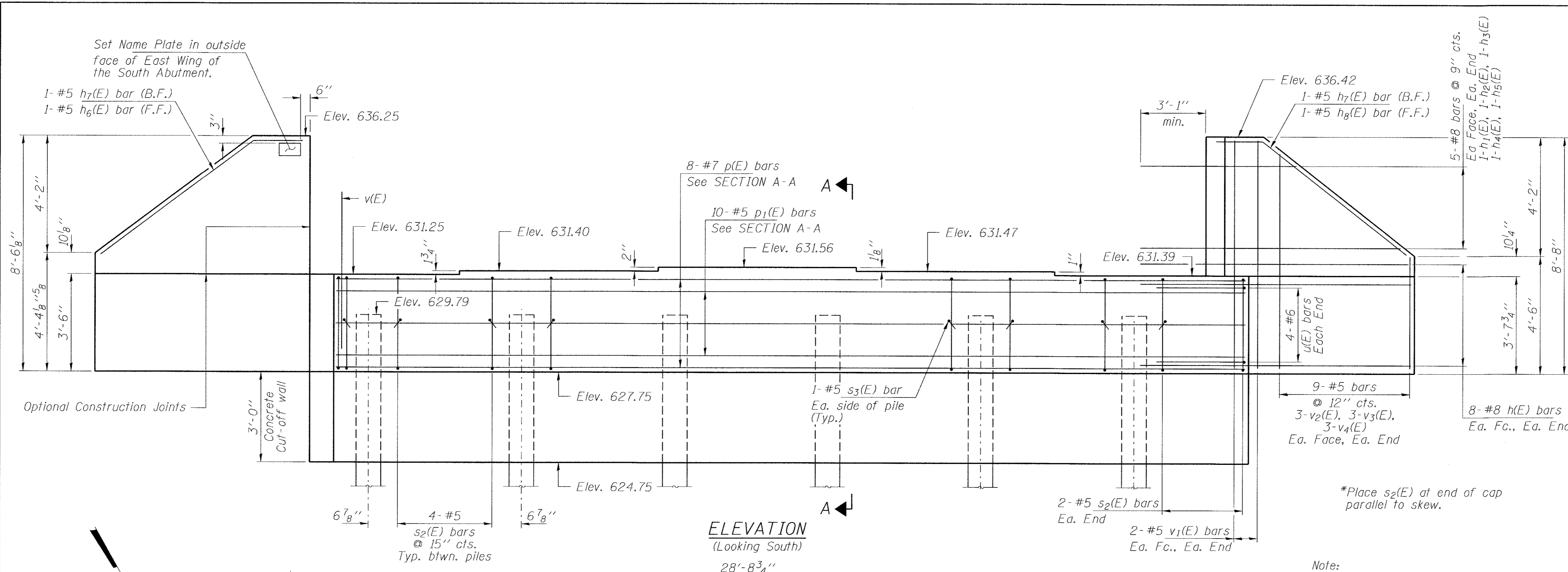
$I_c(n), S_c(n)$: Composite moment of inertia and section modulus of the steel and deck based upon the modular ratio, "n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections due to short-term composite live loads (in⁴ and in³).

$I_c(3n), S_c(3n)$: Composite moment of inertia and section modulus of the steel and deck based upon 3 times the modular ratio, "3n", used for computing f_s (Total-Strength I, and Service II) in uncracked sections, due to long-term composite (superimposed) dead loads (in⁴ and in³).

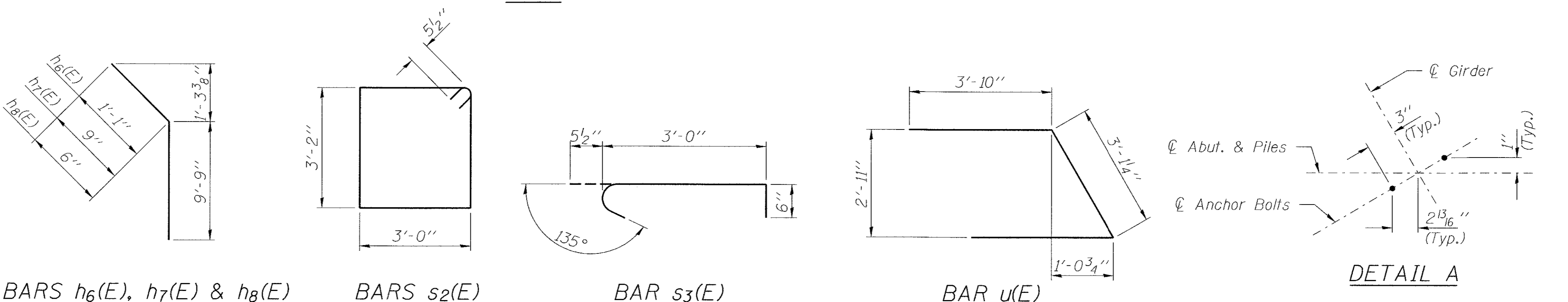
$I_c(cr), S_c(cr)$: Composite moment of inertia and section modulus of the steel and longitudinal deck reinforcement, used for computing f_s (Total-Strength I and Service II) in cracked sections, due to both short-term composite live loads and long-term composite (superimposed) dead loads (in⁴ and in³).

DC1: Un-factored non-composite dead load (kips/ft.).
M_{DC1}: Un-factored moment due to non-composite dead load (kip-ft.).
DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
M_{DC2}: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
M_{DW}: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
M_{± + IM}: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).
M_u (Strength I): Factored design moment (kip-ft.).
1.25 (M_{DC1} + M_{DC2}) + 1.5 M_{DW} + 1.75 M_{± + IM}
φ_rM_n: Compact composite positive moment capacity computed according to Article 6.10.7.1 or non-slender negative moment capacity according to Article A6.1.1 or A6.1.2 (kip-ft.).
f_s DC1: Un-factored stress at edge of flange for controlling steel flange due to vertical non-composite dead loads as calculated below (ksi).
M_{DC1} / S_{nc}
f_s DC2: Un-factored stress at edge of flange for controlling steel flange due to vertical composite dead loads as calculated below (ksi).
M_{DC2} / S_c(3n) or M_{DC2} / S_c(cr) as applicable.
f_s DW: Un-factored stress at edge of flange for controlling steel flange due to vertical composite future wearing surface loads as calculated below (ksi).
M_{DW} / S_c(3n) or M_{DW} / S_c(cr) as applicable.
f_s (± + IM): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
M_{± + IM} / S_c(n) or M_{DW} / S_c(cr) as applicable.
f_s (Service II): Sum of stresses as computed below (ksi).
f_sDC1 + f_sDC2 + f_sDW + 1.3 f_s(± + IM)
0.95R_hF_{yr}: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).
f_s (Total)(Strength I): Sum of stresses as computed below on non-compact section (ksi).
1.25 (f_sDC1 + f_sDC2) + 1.5 f_sDW + 1.75 f_s(± + IM)
φ_rF_n: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).
V_r: Maximum factored shear range in span computed according to Article 6.10.10.

Notes:
For additional structural steel details see sheets 8 & 10 of 14.
All splices and diaphragms, including stiffeners and diaphragms shall be AASHTO M270, Grade 50W.
Load carrying components designated "NTR" shall conform to the Impact Testing Requirement, Zone 2.

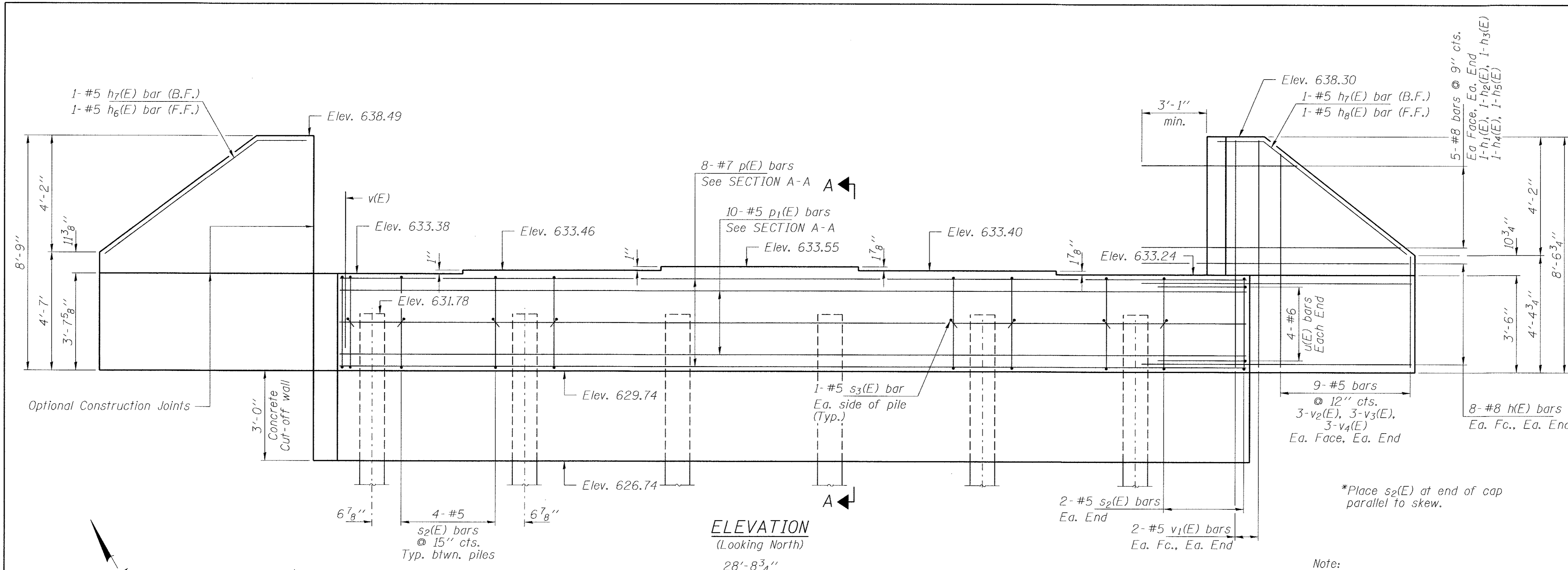


PILE DATA
 Type: Steel HP10x42
 Nominal Required Bearing: 335 Kips/pile
 Factored Resistance Available: 184 Kips/pile
 Est. Length: 25'
 No. Production Piles: 5
 No. Test Piles: 1

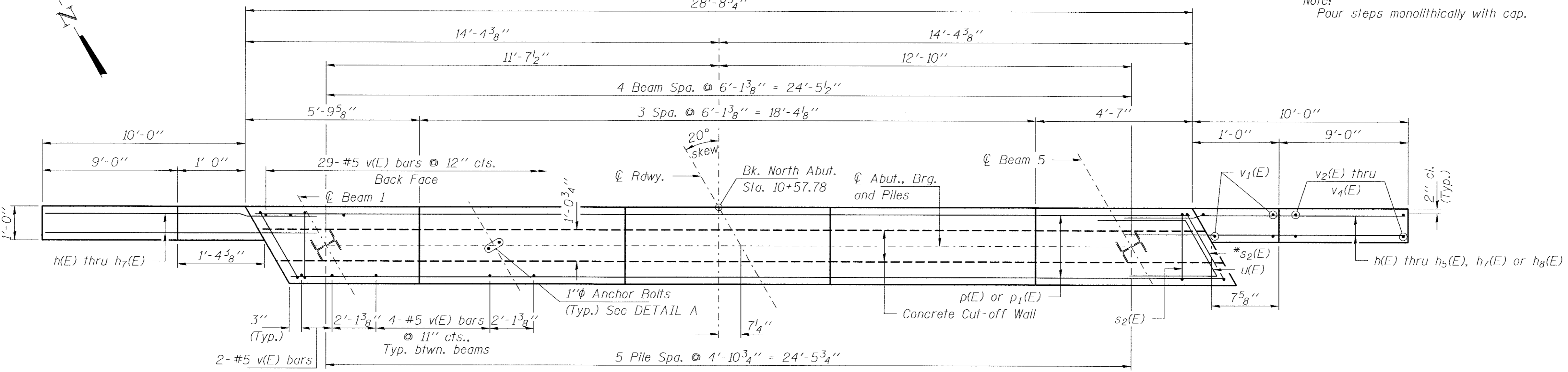
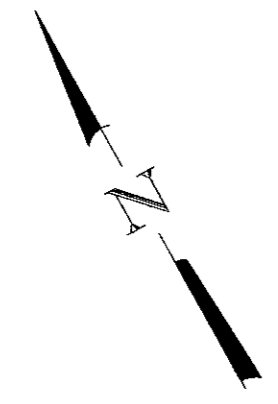


BILL OF MATERIAL - S. ABUT.

Bar	No.	Size	Length	Shape
h(E)	32	#8	13'-3"	—
h1(E)	4	#8	13'-0"	—
h2(E)	4	#5	11'-5"	—
h3(E)	4	#5	9'-9"	—
h4(E)	4	#5	8'-2"	—
h5(E)	4	#5	6'-6"	—
h6(E)	1	#5	10'-10"	—
h7(E)	2	#5	10'-6"	—
h8(E)	1	#5	10'-3"	—
p(E)	8	#7	28'-4"	—
p1(E)	10	#5	28'-4"	—
s2(E)	24	#5	13'-3"	□
s3(E)	12	#5	4'-0"	□
u(E)	8	#6	10'-10"	—
v(E)	53	#5	5'-11"	—
v1(E)	8	#5	8'-3"	—
v2(E)	12	#5	6'-11"	—
v3(E)	12	#5	5'-6"	—
v4(E)	12	#5	4'-2"	—
Protective Coat		Sq. Yd.	17	
Structure Excavation		Cu. Yd.	102	
Concrete Structures		Cu. Yd.	18.0	
Concrete Cut-Off Wall		Cu. Yd.	3.4	
Reinforcement Bars, Epoxy Coated		Pound	3,340	
Furnishing Steel Piles HP10x42		Foot	125	
Driving Piles		Foot	125	
Test Pile Steel HP10x42		Each	1	
Pile Shoes		Each	6	
Name Plates		Each	1	



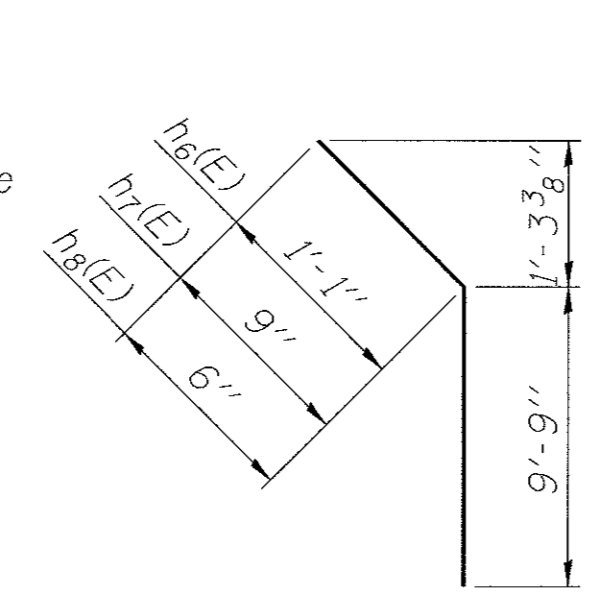
ELEVATION
(Looking North)
28'-8³/₄"



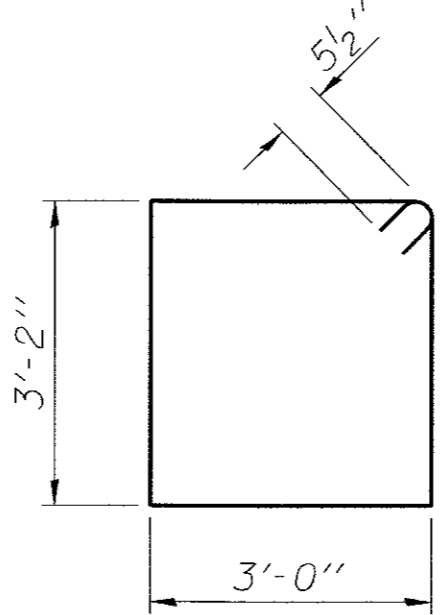
PLAN

PILE DATA

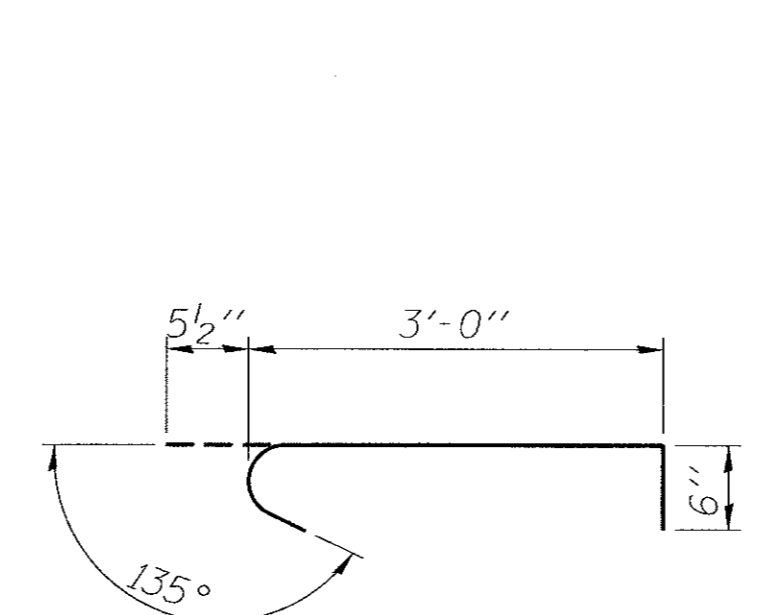
Type: Steel HP10x42
 Nominal Required Bearing: 335 Kips/pile
 Factored Resistance Available: 184 Kips/pile
 Est. Length: 25'
 No. Production Piles: 5
 No. of Test Piles: 1



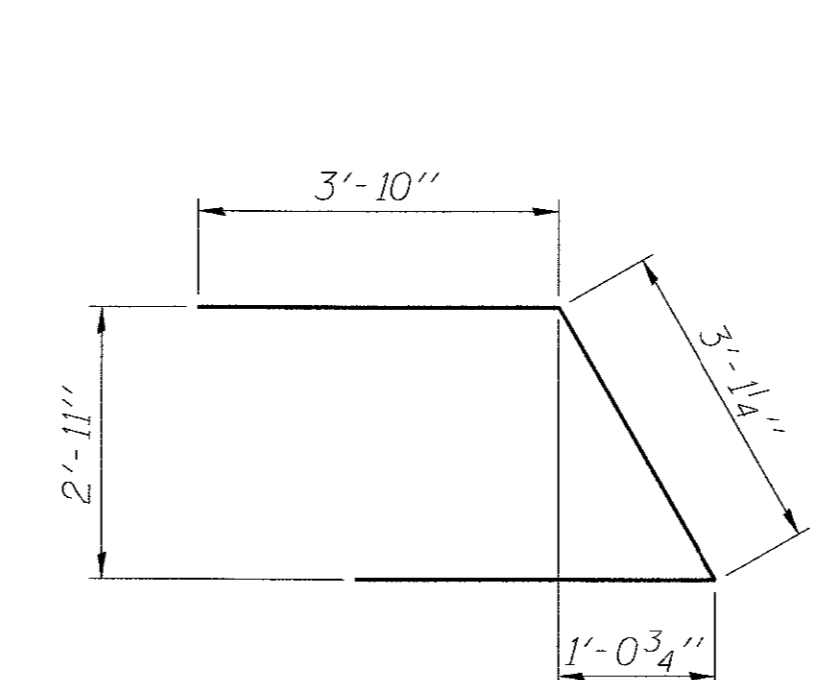
BARS h₆(E), h₇(E) & h₈(E)



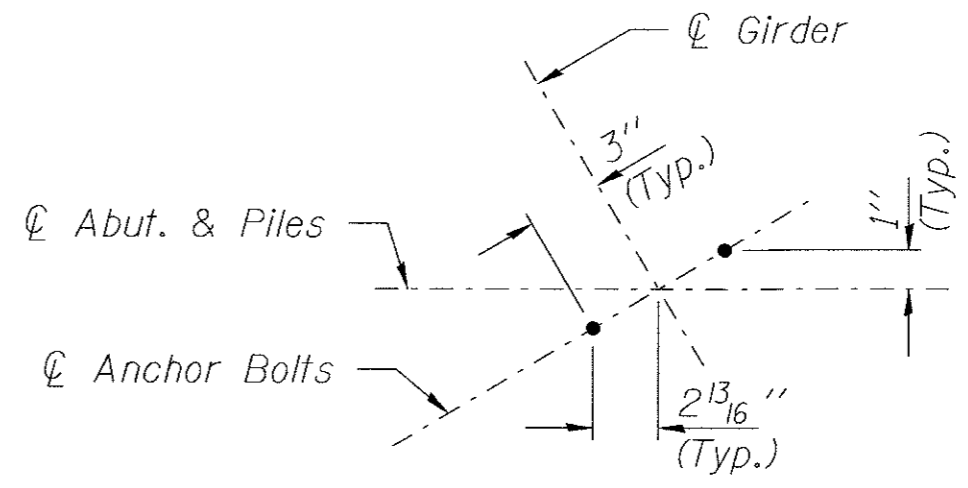
BARS s₂(E)



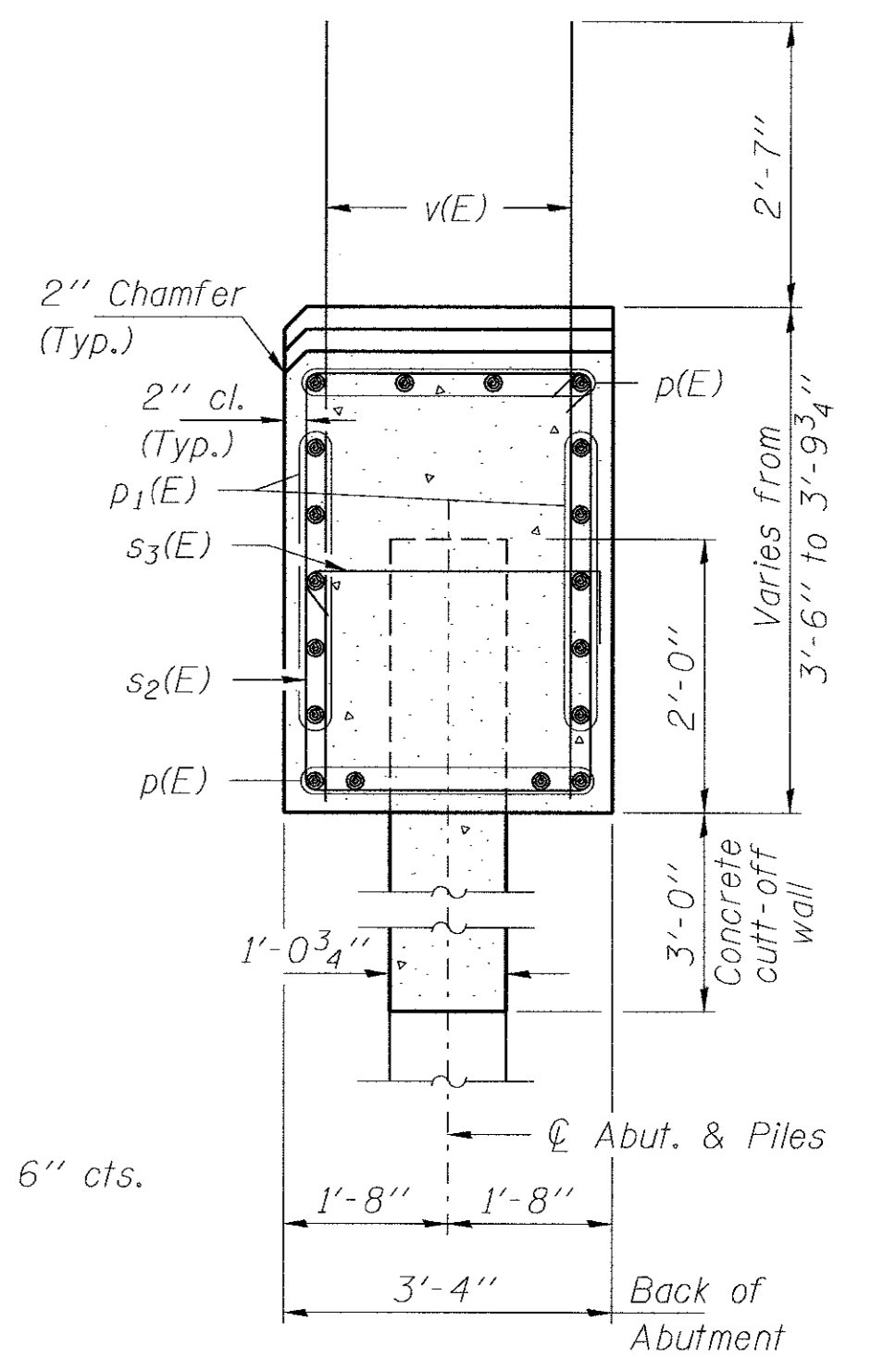
BAR s₃(E)



BAR u(E)



DETAIL A



SECTION A-A
Dimensions at right angles to abutment.

Note:
Four steps monolithically with cap.

BILL OF MATERIAL - N. ABUT.

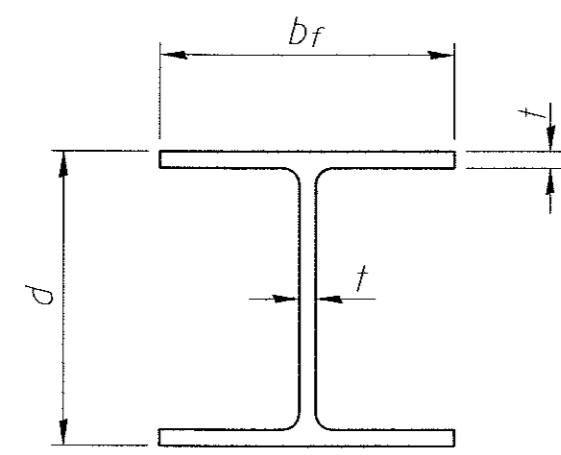
Bar	No.	Size	Length	Shape
h(E)	32	#8	13'-3"	
h ₁ (E)	4	#8	13'-0"	
h ₂ (E)	4	#5	11'-5"	
h ₃ (E)	4	#5	9'-9"	
h ₄ (E)	4	#5	8'-2"	
h ₅ (E)	4	#5	6'-6"	
h ₆ (E)	1	#5	10'-10"	
h ₇ (E)	2	#5	10'-6"	
h ₈ (E)	1	#5	10'-3"	
p(E)	8	#7	28'-4"	
p ₁ (E)	10	#5	28'-4"	
s ₂ (E)	24	#5	13'-3"	
s ₃ (E)	12	#5	4'-0"	
u(E)	8	#6	10'-10"	
v(E)	53	#5	5'-11"	
v ₁ (E)	8	#5	8'-3"	
v ₂ (E)	12	#5	6'-11"	
v ₃ (E)	12	#5	5'-6"	
v ₄ (E)	12	#5	4'-2"	
Protective Coat		Sq. Yd.	17	
Structure Excavation		Cu. Yd.	102	
Concrete Structures		Cu. Yd.	18.0	
Concrete Cut-Off Wall		Cu. Yd.	3.4	
Reinforcement Bars, Epoxy Coated		Pound	3,340	
Furnishing Steel Piles HP10x42		Foot	125	
Driving Piles		Foot	125	
Test Pile Steel HP10x42		Each	1	
Pile Shoes		Each	6	

For details of piles see sheet 13 of 14.

AI->40-L 8-31-12

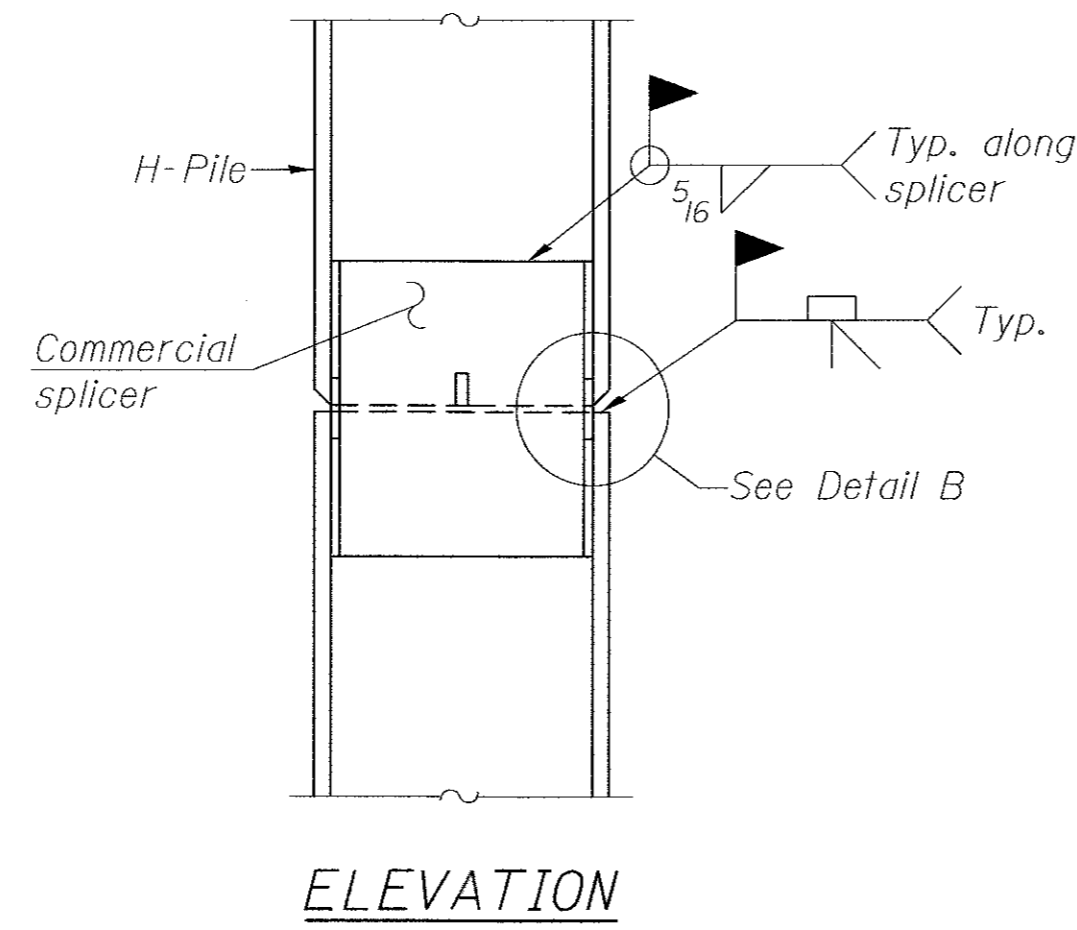
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3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 217.548.3400 www.hireengineering.com		CHECKED - S.W.M.	REVISED -			274	09-03138-00-BR	VERMILION	40	17
184.000959 ILLINOIS PROFESSIONAL DESIGN FIRM LS/PE/SE CORPORATION	PLOT SCALE =	DRAWN - D.A.B.	REVISED -			CARROLL ROAD DISTRICT				CONTRACT NO. 91528
	PLOT DATE = 8/14/2017	CHECKED - S.W.M.	REVISED -							ILLINOIS FED. AID PROJECT HVCM4631

SHEET NO. 12 OF 14 SHEETS

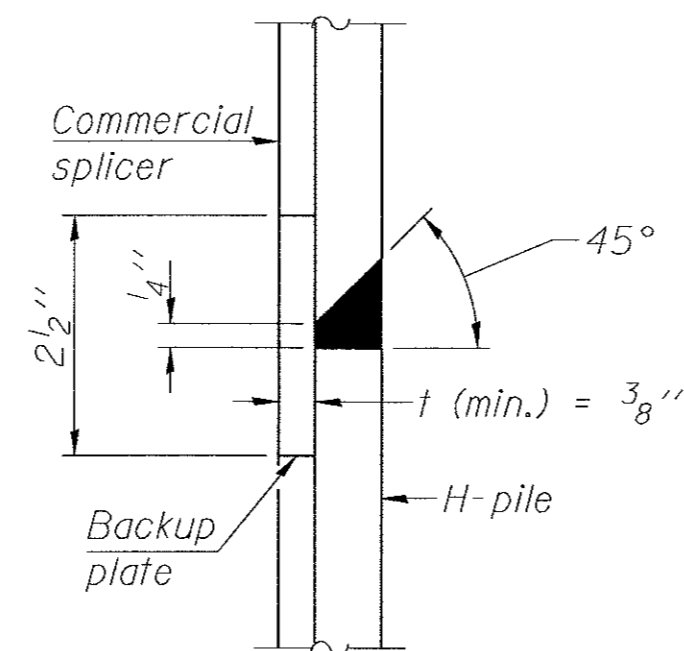


STEEL PILE TABLE

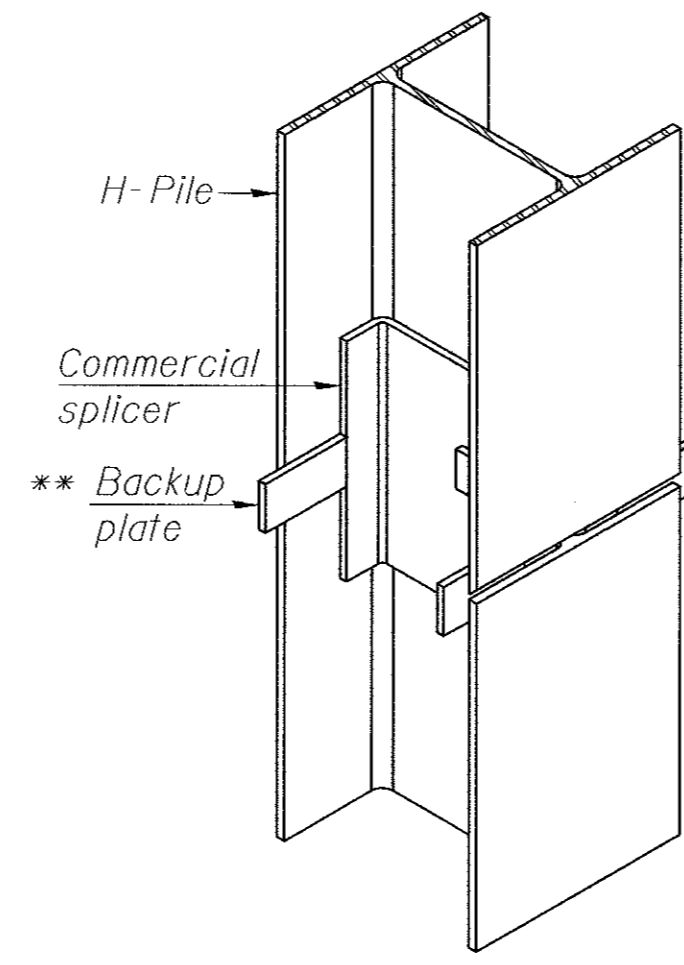
Designation	Depth d	Flange width br	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 5/8"	14 5/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"
x53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

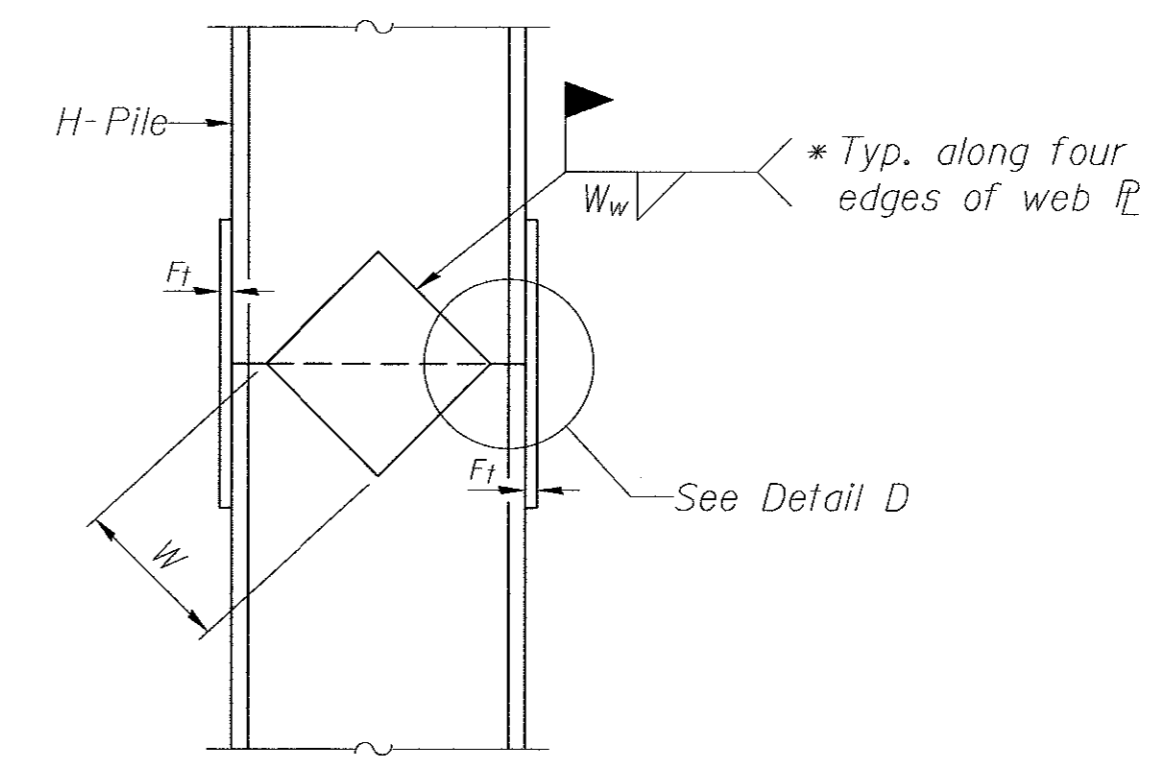


DETAIL "B"

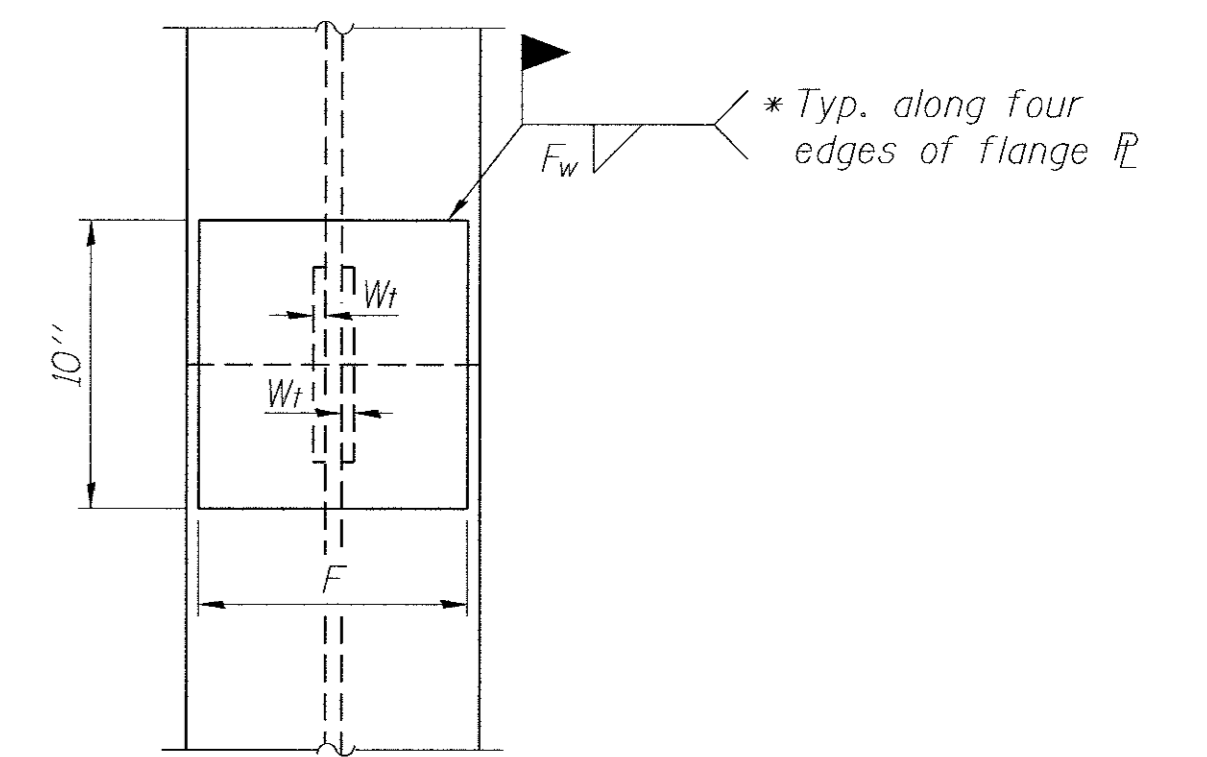


ISOMETRIC VIEW

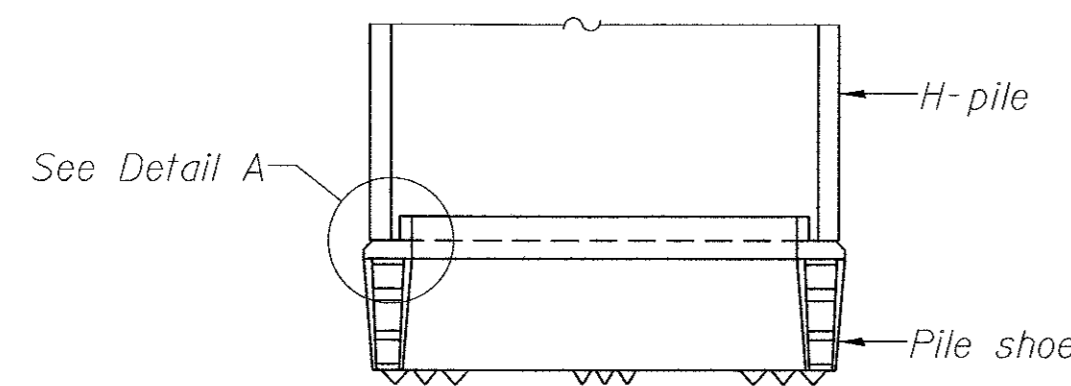
WELDED COMMERCIAL SPLICE



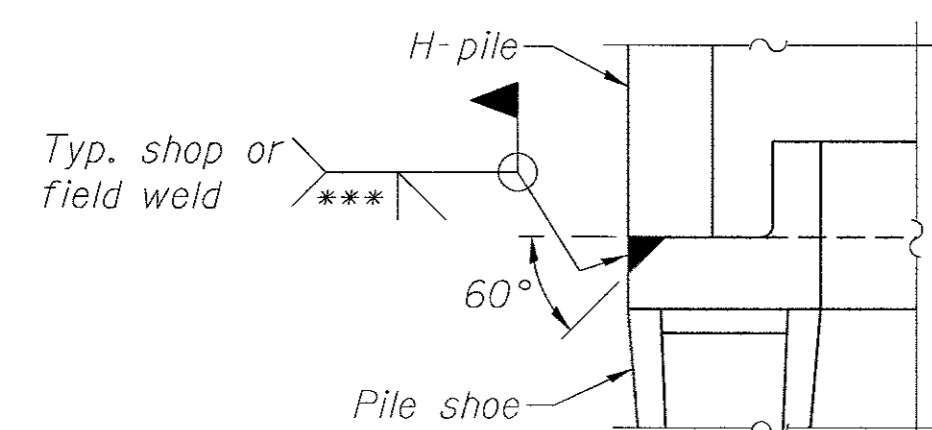
ELEVATION



END VIEW

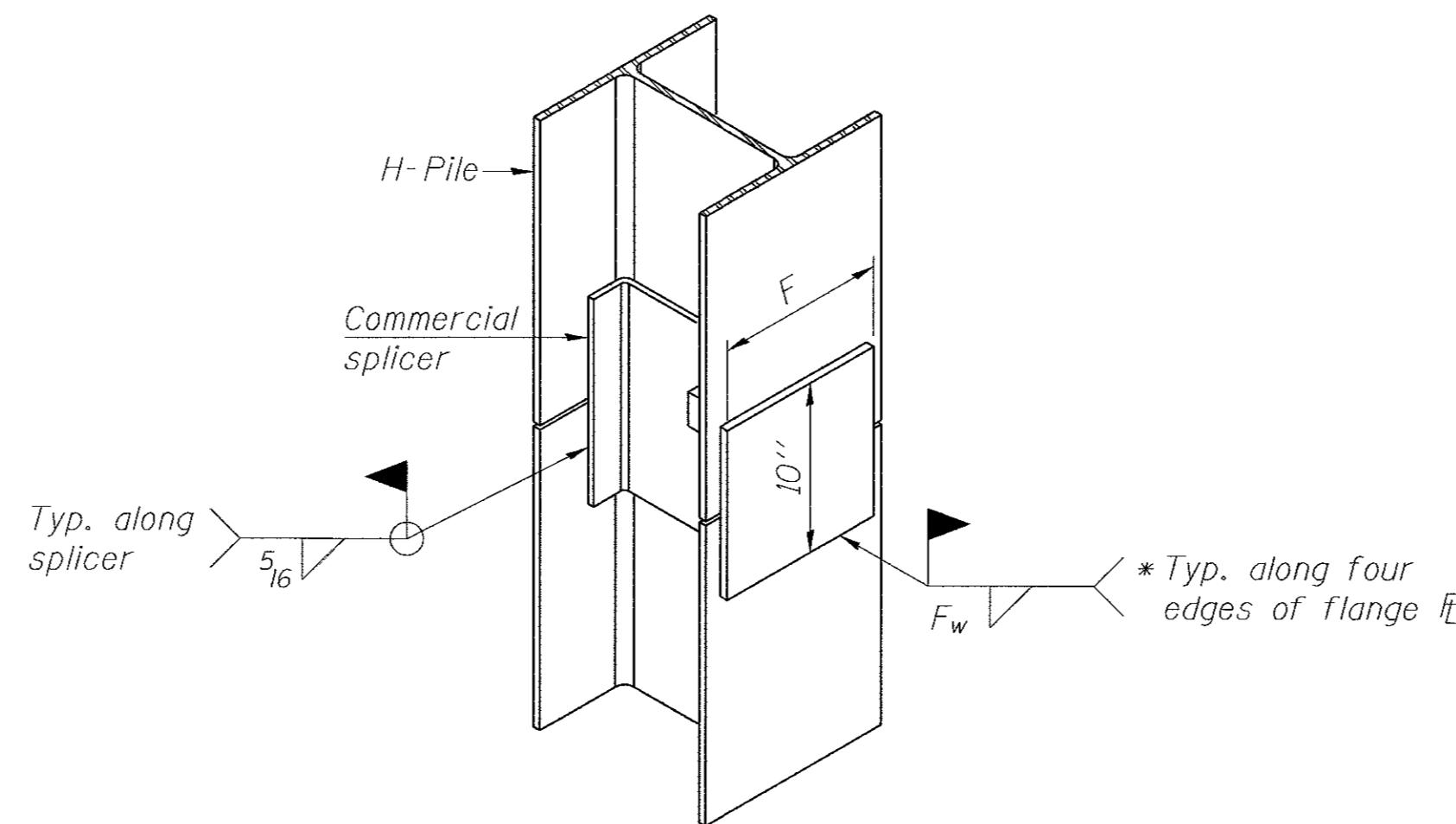


ELEVATION

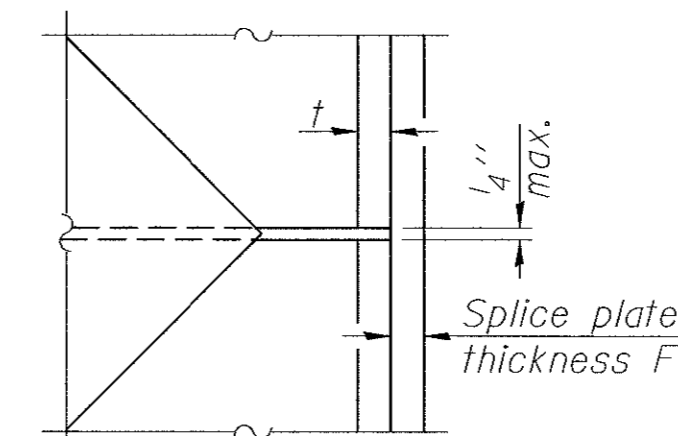


DETAIL A

H-PILE SHOE ATTACHMENT



ISOMETRIC VIEW



DETAIL D

WELDED PLATE FIELD SPLICE

Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	11/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	11/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
x53	10"	5/8"	1/2"	6 1/2"	1/2"	3/8"
HP 10x57	8"	3/4"	9/16"	5 1/4"	1/2"	3/8"
x42	8"	5/8"	9/16"	5 1/4"	1/2"	3/8"
HP 8x36	7"	5/8"	7/16"	4 1/4"	1/2"	3/8"

WELDED 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 = 140220-sht-bridge.dgn	USER NAME =	DESIGNED - D.W.T.	REVISED -	STATE OF ILLINOIS VERMILION COUNTY HIGHWAY DEPARTMENT	HP PILE DETAILS STRUCTURE NO. 092-3521	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 217.546.3400 www.hirengineering.com		CHECKED - S.W.M.	REVISED -			274	09-03138-00-BR	VERMILION	40	18
184.00093 ILLINOIS PROFESSIONAL DESIGN FIRM L8/PE/SE CORPORATION	PLOT SCALE =	DRAWN - D.A.B.	REVISED -			CARROLL ROAD DISTRICT				CONTRACT NO. 91528
	PLOT DATE = 8/14/2017	CHECKED - S.W.M.	REVISED -							ILLINOIS FED. AID PROJECT HVCN(463)

SHEET NO. 13 OF 14 SHEETS



BORING NO. B-1
PAGE 1 OF 1

CLIENT Hampton, Lenzini and Renwick PROJECT NAME Section 09-03138-00-BR: N 1300 E Road
PROJECT NUMBER 14-G420 PROJECT LOCATION Carrol Twp, Vermilion Co, IL
DATE COMPLETED 7/23/14 LOGGED BY NJ/JB DRILLING METHOD 3.25 in. I.D. HSA

DEPTH (ft)	ELEVATION (ft)	GRAPHIC LOG	MATERIAL DESCRIPTION	SAMPLE TYPE NUMBER	RECOVERY % (ROD)	BLOW COUNTS (N VALUE)	POCKET PEN. (Op) (tsf)	UNC. STRENGTH (tsf)	MOISTURE CONTENT (%)	DRY UNIT WT. (pcf)	ORGANIC CONTENT (%)	ATTERBERG LIMITS			
												LIQUID LIMIT	PLASTIC LIMIT	PLASTICITY INDEX	
0			Topsoil (0-4")												
	640.2		Brown sandy clay, medium stiff to stiff, moist	SS 1	22	5-3-2 (5)	1.5		15.1						
				SS 2	44	3-2-2 (4)	1.7		18.1						
				SS 3	56	4-4-4 (8)	1.7	0.9	17.6						
				SS 4	56	2-3-2 (5)	1.5		15.8						
	624.5		Brown silty clay, with gravel and cobbles, Very stiff to hard, moist	SS 5	89	4-4-10 (14)	2.0	0.9	14.0						
	621.0			SS 6	22	7-11-15 (26)	4.5+		10.7						
			Gray shale, hard, slightly moist	SS 7	39	11-13-13 (26)	4.5+		10.1						
				SS 8	100	50/2"			7.1						
	606.8		Refusal at 33.8 feet. Bottom of borehole at 33.8 feet.	SS 9	100	50/3"			6.8						

COMPLETION DEPTH 33.75 ft GROUND ELEVATION 640.5 ft
CAVE DEPTH 16 ft BACKFILL Soil Cuttings
GROUND WATER LEVELS:
AT TIME OF DRILLING -- none
AT END OF DRILLING -- none above caved depth
AFTER DRILLING --

NOTES
From the center of the bridge, boring is located 65 feet north along centerline and 8 feet west from centerline in south bound lane.

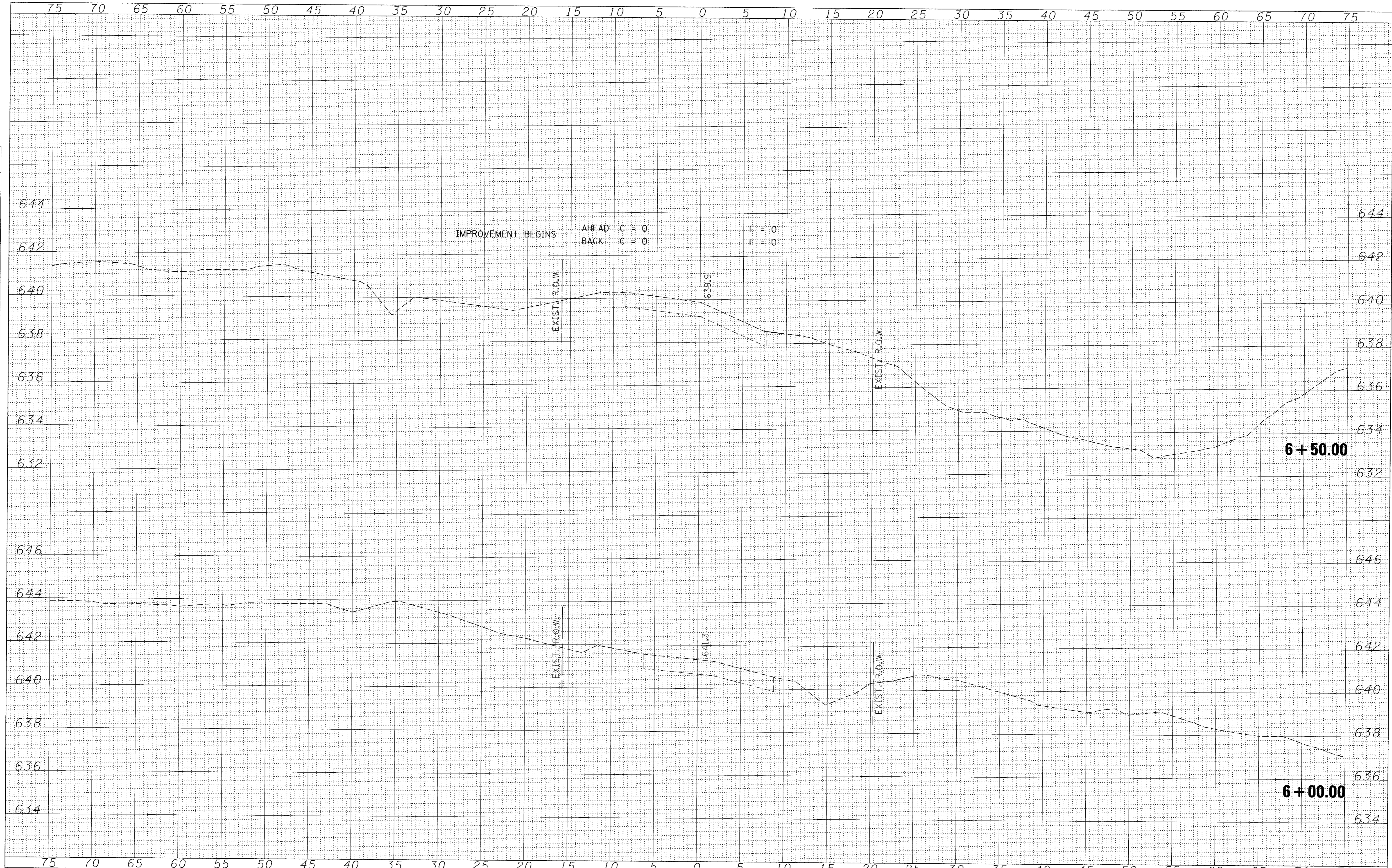
Lines of Demarcation represent an approximate boundary between soil types. Variations may occur between sampling intervals and between boring locations, and the transition may be gradual. Dashed lines are indicative of potentially erratic or unknown changes.

9370 W. Laraway Rd, Suite D Frankfort, Illinois Phone (815) 806-9986 Fax (815) 464-8691

BORING B-1

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	AREAS CHECKED
NO.	

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	AREAS CHECKED
NO.	



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 DESIGNED - J.W.F.
 DRAWN - L.G.C.
 CHECKED - S.W.M.
 DATE - 08/14/17

REVISIONS:
 REVISED -
 REVISED -
 REVISED -
 REVISED -

PLLOT SCALE = @SCALE@
 PLOT DATE = 8/14/2017

**STATE OF ILLINOIS
 VERMILION COUNTY HIGHWAY DEPARTMENT**

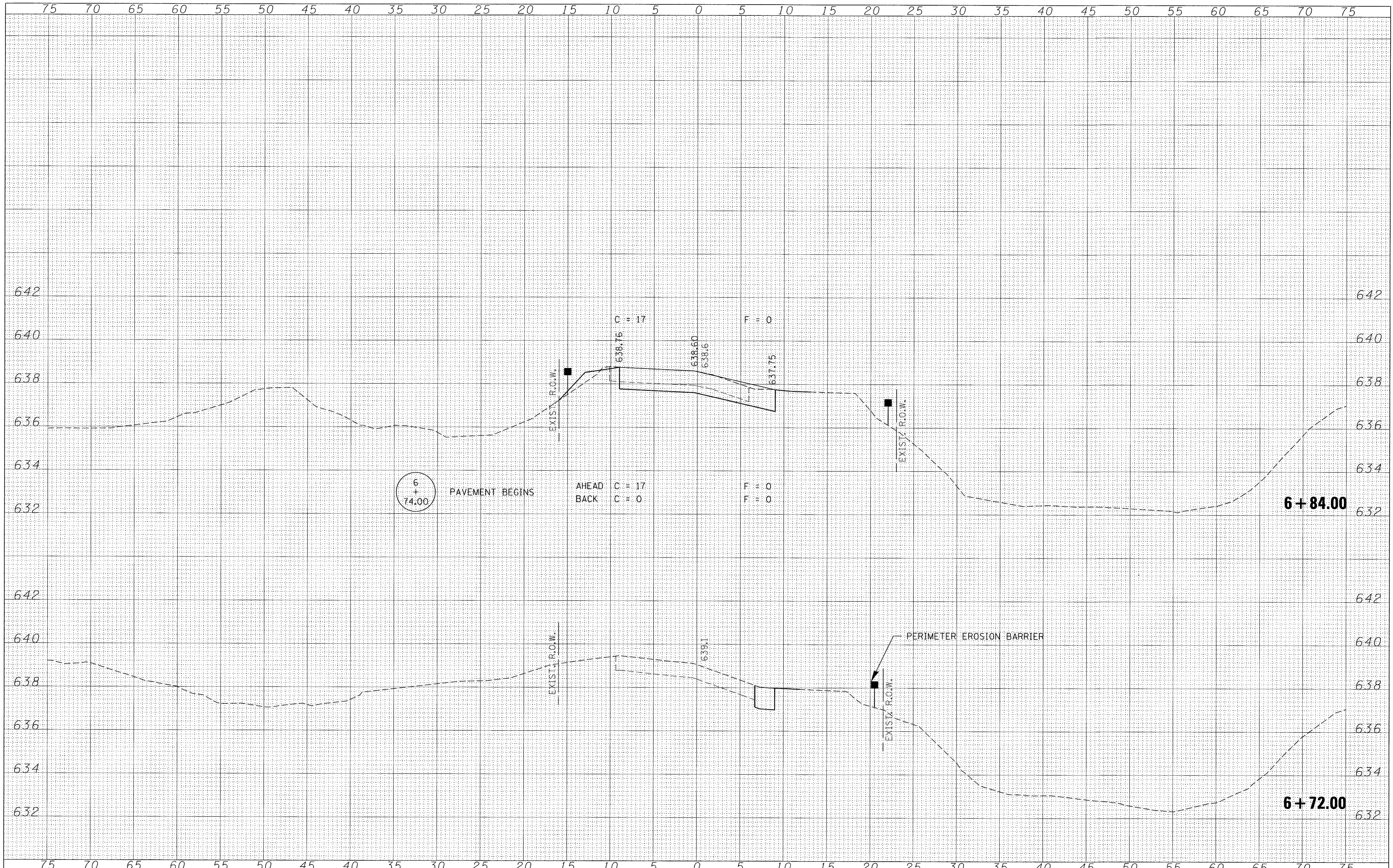
STATION CROSS SECTIONS
 SCALE: 5H:2V
 SHEET NO. 1 OF 21 SHEETS
 STA. 6+00.00 TO STA. 6+50.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
274	09-03138-00-BR	VERMILION	40	20
CARROLL ROAD DISTRICT		CONTRACT NO. 91528		

ILLINOIS FED. AID PROJECT HVCM463J

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

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



FILE NAME = 1402200-sht-gxs.dgn
HAMPTON, LENZINI AND RENWICK, INC.
 3060 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.010959

USER NAME = #USER#
 PLOT SCALE = #SCALE#
 PLOT DATE = 8/14/2017

DESIGNED - J.W.F.	REVISED -
DRAWN - L.G.C.	REVISED -
CHECKED - S.W.M.	REVISED -
DATE - 08/14/17	REVISED -

**STATE OF ILLINOIS
 VERMILION COUNTY HIGHWAY DEPARTMENT**

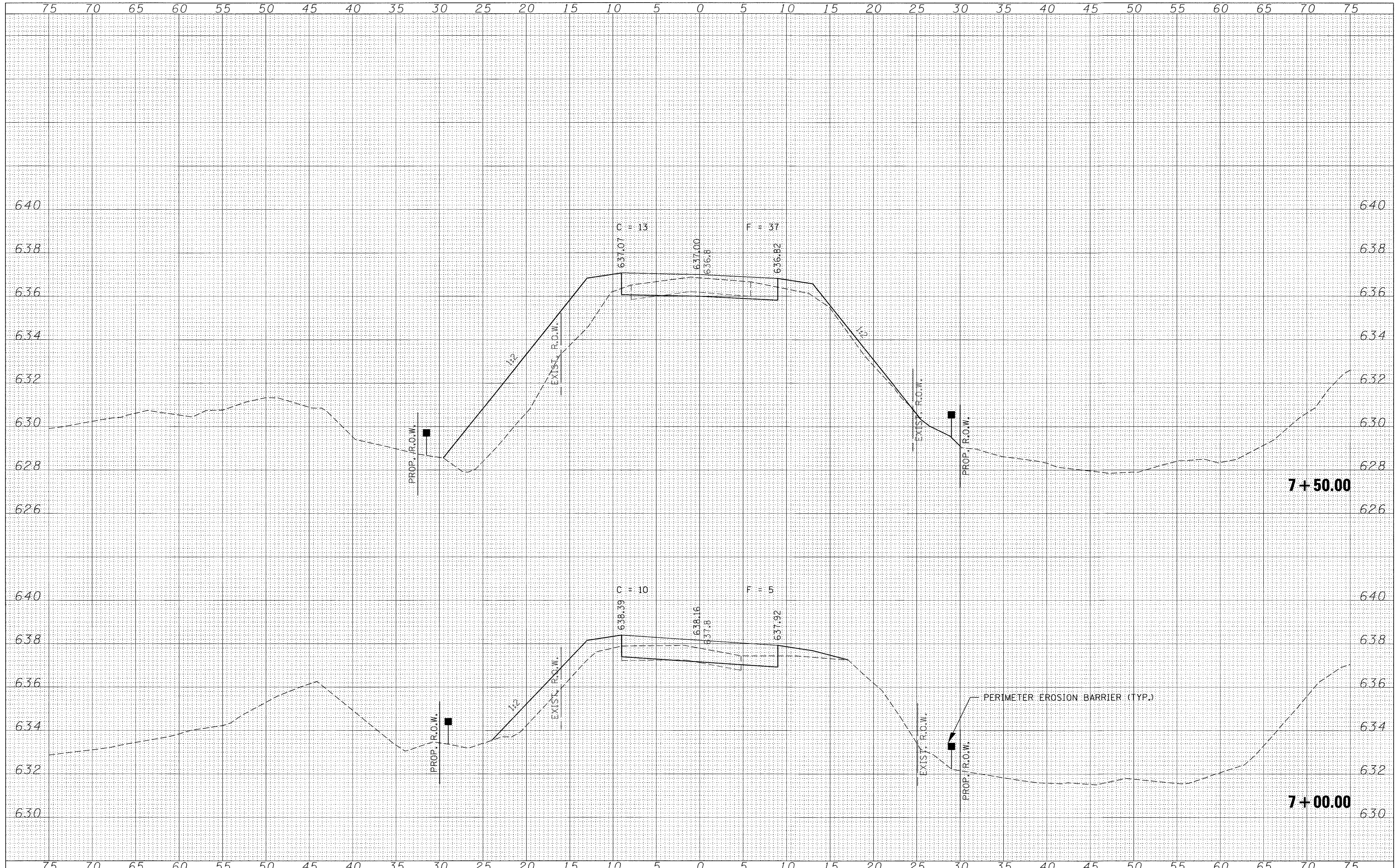
STATION CROSS SECTIONS

SCALE: 5H:2V SHEET NO. 2 OF 21 SHEETS STA. 6+72.00 TO STA. 6+84.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
274	09-03138-00-BR	VERMILION	40	21
CARROLL ROAD DISTRICT			CONTRACT NO. 91528	
ILLINOIS FED. AID PROJECT HVCM4631				

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

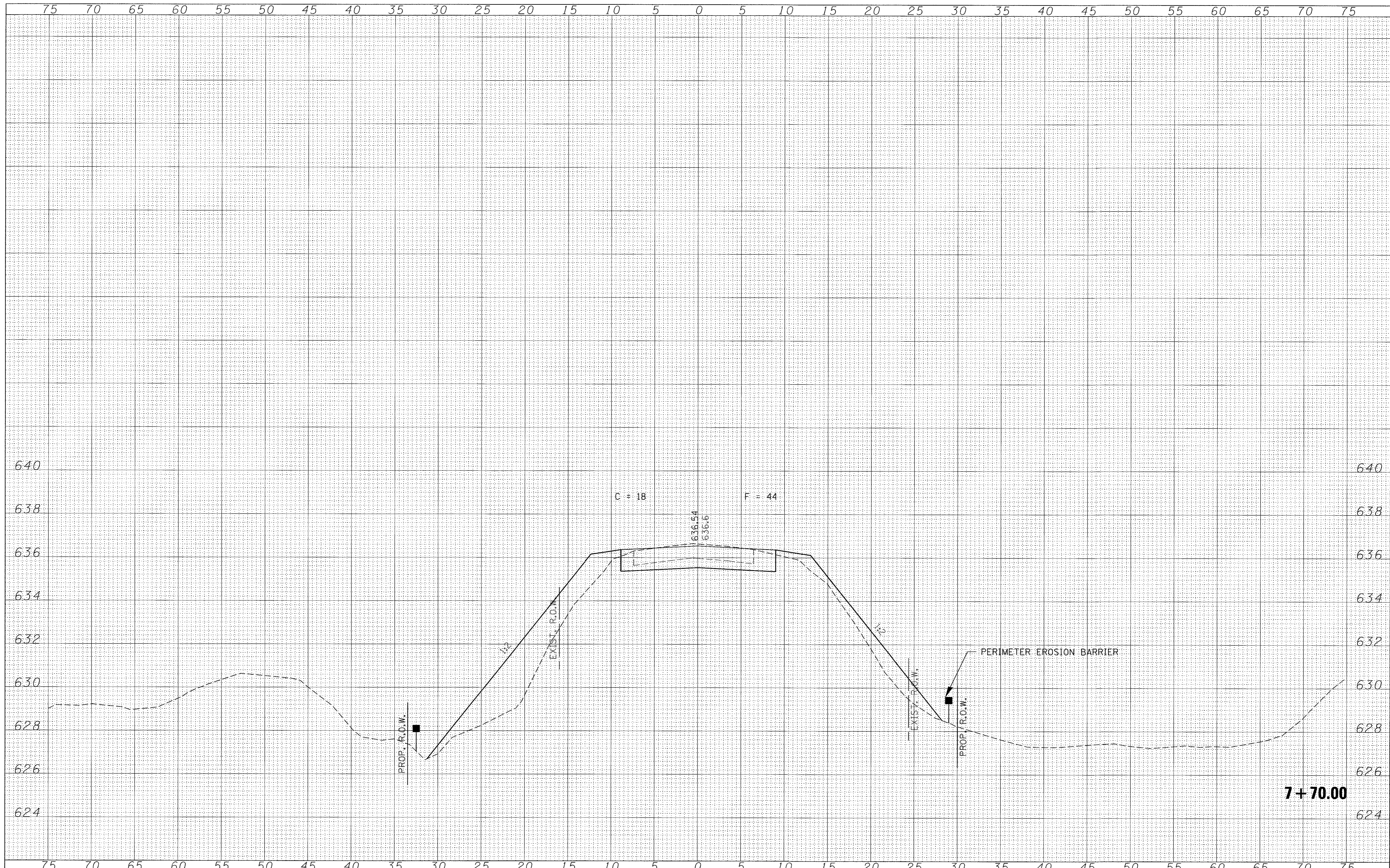
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NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED



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HAMPTON, LENZINI AND RENWICK, INC. 3685 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - L.G.C.	REVISED -		274	09-03138-00-BR	VERMILION	40	22		
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	PLOT DATE = 8/14/2017	DATE - 08/14/17	REVISED -		SCALE: 5H:2V	SHEET NO. 3 OF 21 SHEETS	STA. 7+00.00 TO STA. 7+50.00	[ILLINOIS] FED. AID PROJECT HVCM463J			

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

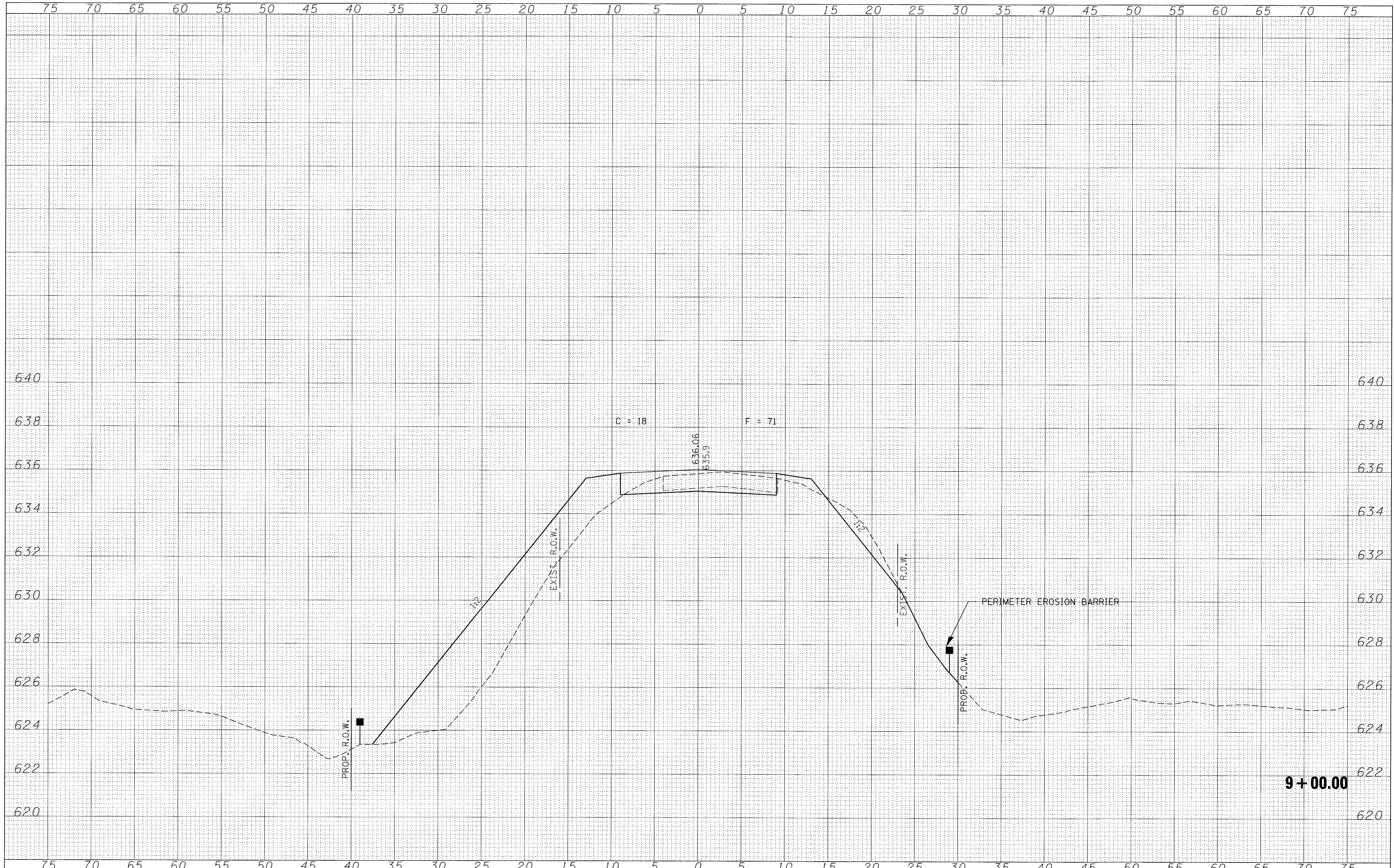
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NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
	BY	



FILE NAME = 140200-sh1-sxs.dgn	USER NAME = #USER*	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS VERMILION COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS				
HLR HAMPTON, LENZINI AND RENWICK, INC. 3080 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - L.G.C.	REVISED -		TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = #SCALE#	CHECKED - S.W.M.	REVISED -		274	09-03138-00-BR	VERMILION	40	23
	PLOT DATE = 8/14/2017	DATE - 08/14/17	REVISED -		CARROLL ROAD DISTRICT		CONTRACT NO. 91528		
				SCALE: 5H:2V	SHEET NO. 4 OF 21 SHEETS	STA. 7+70.00	TO STA. 7+70.00	[ILLINOIS] FED. AID PROJECT HVCM4631	

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

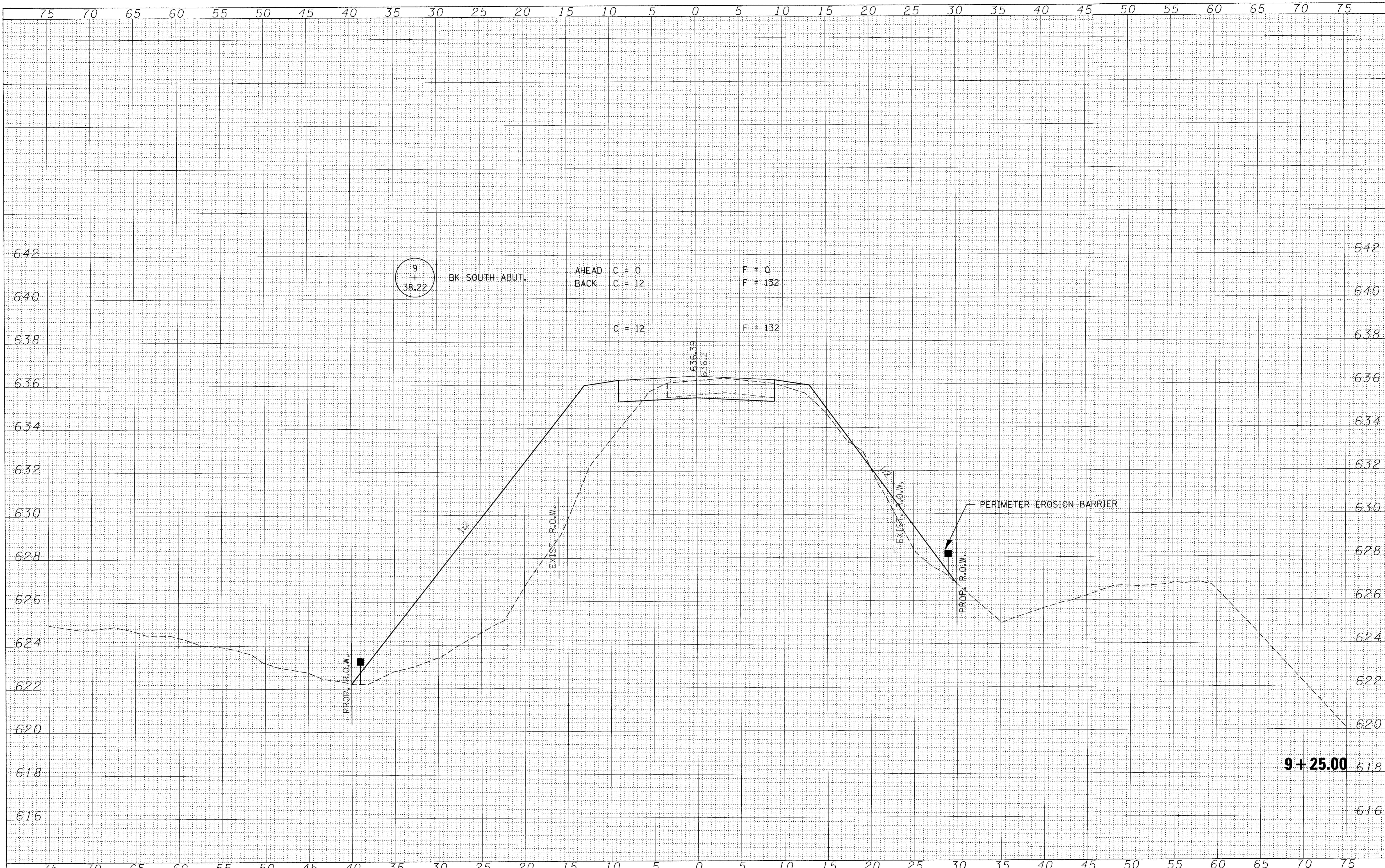
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NOTE BOOK NO.	PLOTTED	BY
	TEMPLATE	
	AREAS CHECKED	



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	PLOT DATE = 8/14/2017	DATE - 08/14/17	REVISED -		CARROLL ROAD DISTRICT		CONTRACT NO. 91528		
				SCALE: 5H:2V	SHEET NO. 6 OF 21 SHEETS	STA. 9+00.00	TO STA. 9+00.00		
ILLINOIS FED. AID PROJECT HVCN14631									

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NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

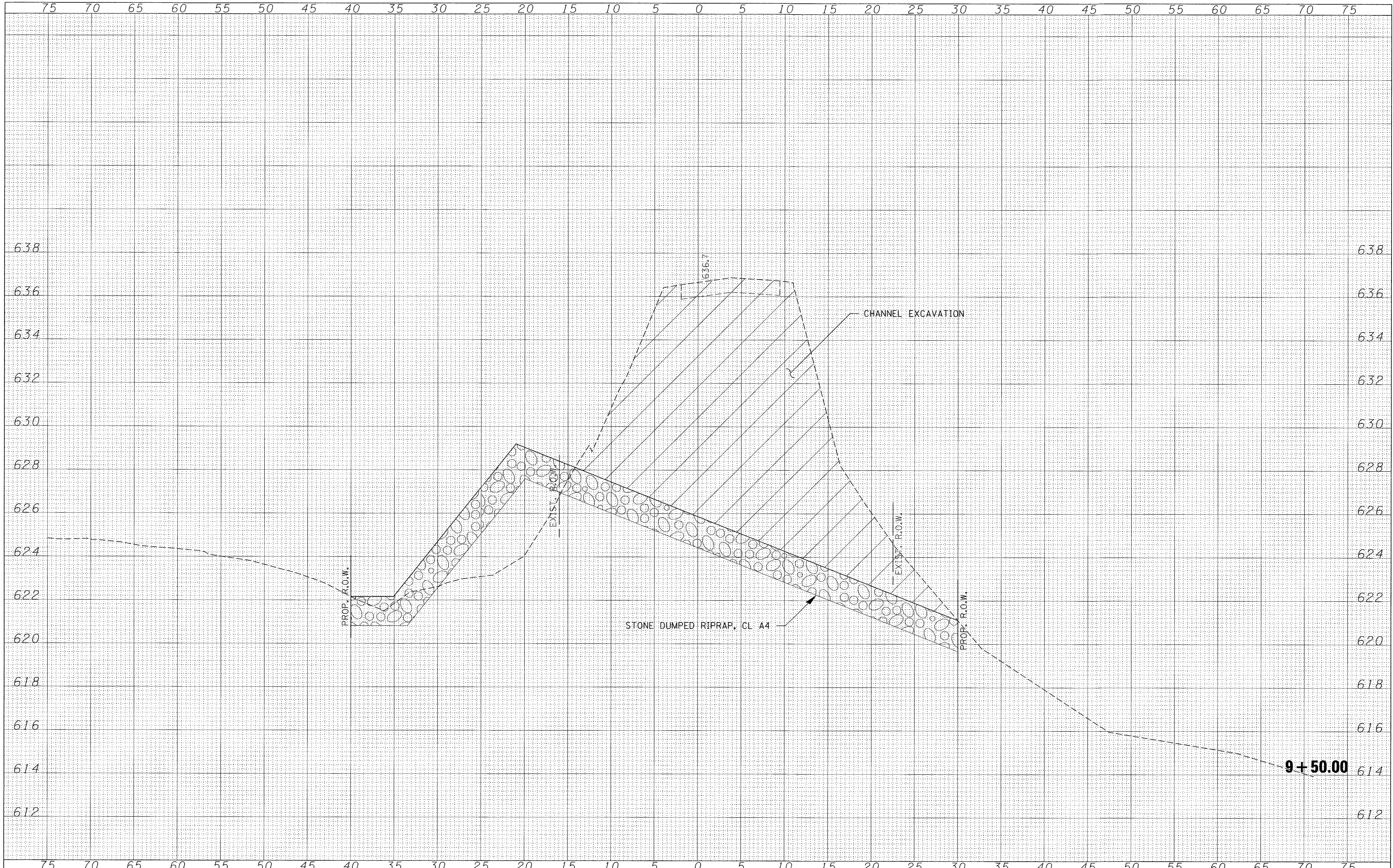
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NO.	TEMPLATE		
	AREAS		
	CHECKED		



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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L8 / PE / SE CORP. 184.000959	PLOT SCALE = #SCALE#	DRAWN - L.G.C.C.	REVISED -		SCALE: 5H:2V	SHEET NO. 7 OF 21 SHEETS	STA. 9+25.00	TO STA. 9+25.00	274	09-03138-00-BR	VERMILION	40	26
	PLOT DATE = 8/14/2017	CHECKED - S.W.M.	REVISED -						CARROLL ROAD DISTRICT		CONTRACT NO. 91528		
		DATE - 08/14/17	REVISED -						ILLINOIS FED. AID PROJECT HVCM463				

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

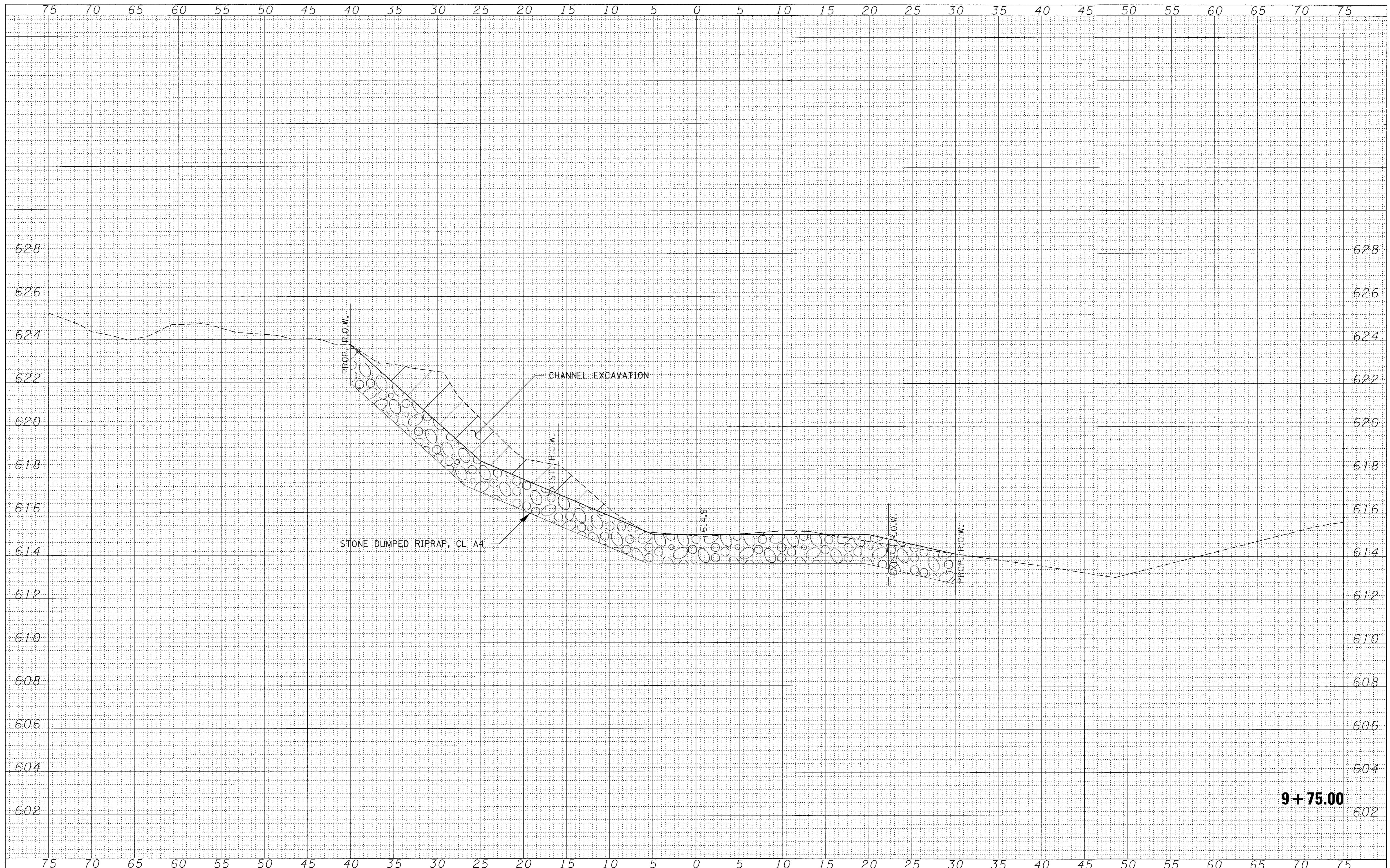
BY	DATE
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NOTE BOOK	PLOTTED
NO.	DATE
	AREAS CHECKED



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HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - L.G.C.	REVISED -		274	09-03138-00-BR	VERMILION	40	27		
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	PLOT DATE = 8/14/2017	DATE - 08/14/17	REVISED -		SCALE: 5H:2V	SHEET NO. 8 OF 21 SHEETS	STA. 9+50.00	TO STA. 9+50.00	ILLINOIS FED. AID PROJECT HVCN14631		

FINAL SURVEY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

ORIGINAL SURVEY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

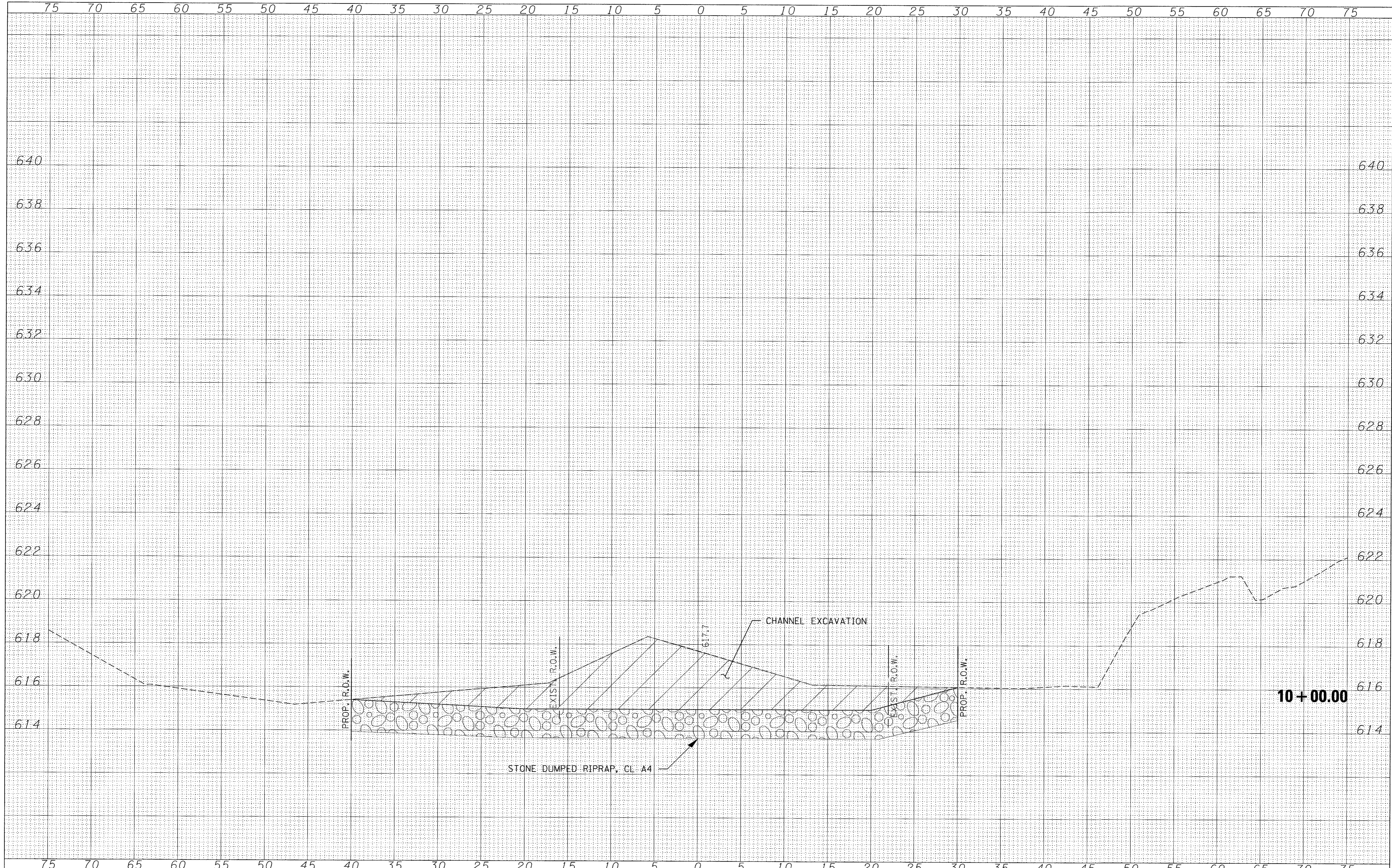


9+75.00

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HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - L.G.C.	REVISED -		274	09-03138-00-BR	VERMILION	40	28			
3065 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		CHECKED - S.W.M.	REVISED -		CARROLL ROAD DISTRICT			CONTRACT NO. 91528				
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 194.000959		DATE - 08/14/17	REVISED -		SCALE: 5H:2V		SHEET NO. 9 OF 21 SHEETS		STA. 9+75.00 TO STA. 9+75.00	ILLINOIS FED. AID PROJECT HVCN14631		

DATE	
BY	
FINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME = 1402200-sht-sxx.dgn
HAMPTON, LENZINI AND RENWICK, INC.
 3065 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 L9 / PE / SE CORP. 184,000989

USER NAME = #USER#
 PLOT SCALE = #SCALE#
 PLOT DATE = 8/14/2017

DESIGNED - J.W.F.
 DRAWN - L.G.C.
 CHECKED - S.W.M.
 DATE - 08/14/17

REVISED -
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**STATE OF ILLINOIS
 VERMILION COUNTY HIGHWAY DEPARTMENT**

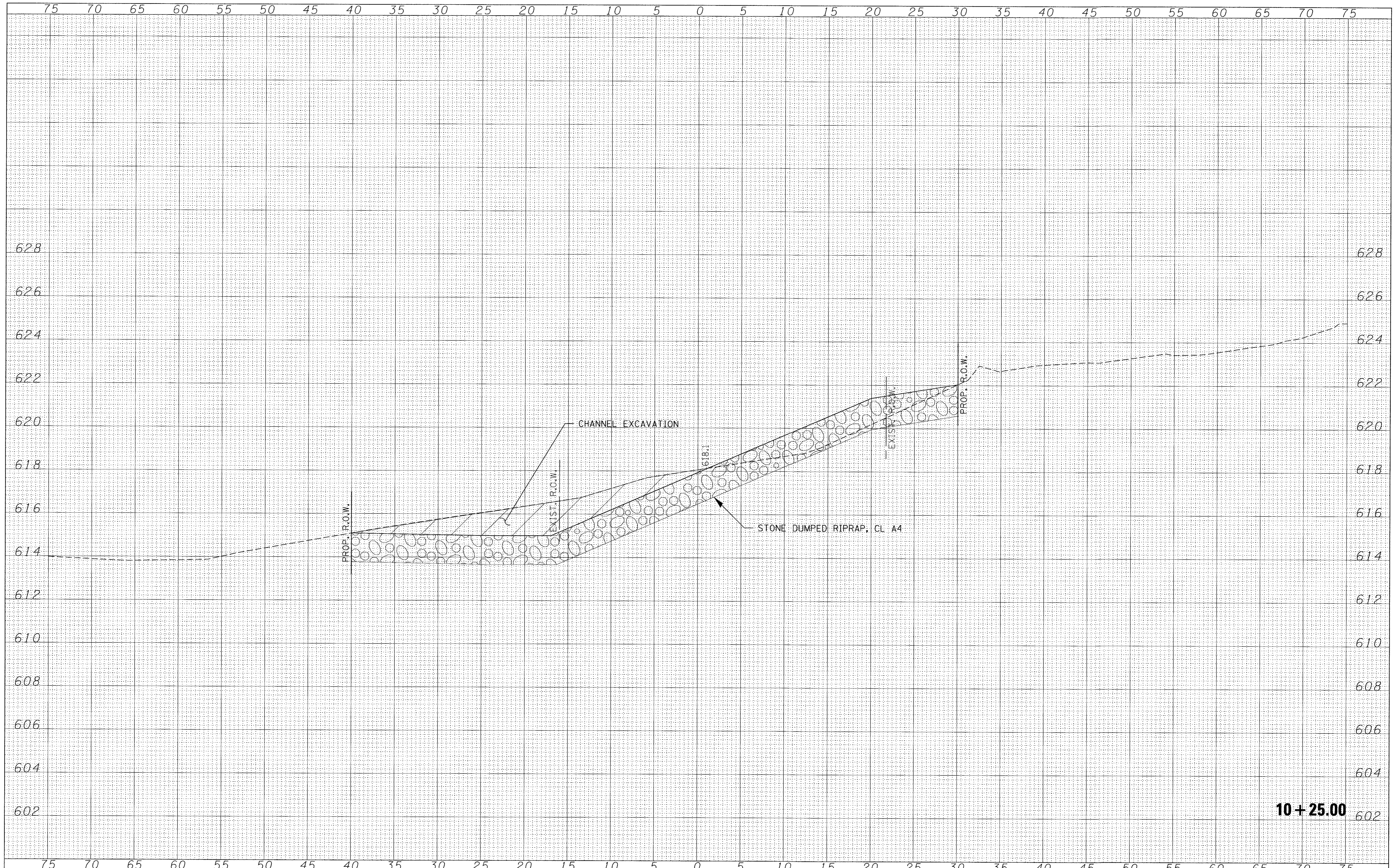
STATION CROSS SECTIONS

SCALE: 5H:2V SHEET NO. 10 OF 21 SHEETS STA. 10+00.00 TO STA. 10+00.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
274	09-03138-00-BR	VERMILION	40	29
CARROLL ROAD DISTRICT			CONTRACT NO. 91528	
ILLINOIS FED. AID PROJECT HVCN463				

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

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



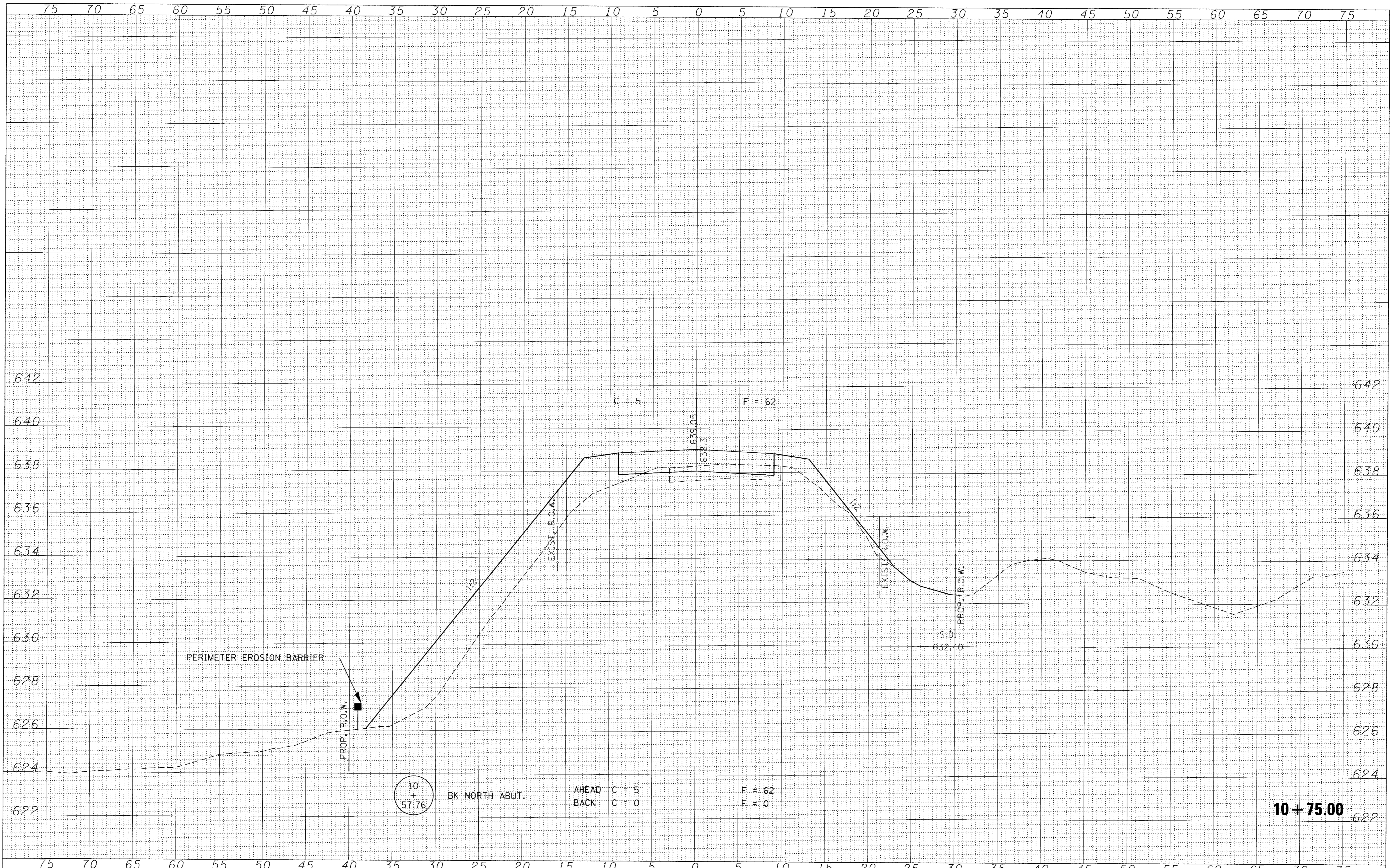
10+25.00

FILE NAME = 140220-sht-sss.dgn	USER NAME = #USER#	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS VERMILION COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS				TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3065 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLLOT SCALE = #SCALE#	DRAWN - L.G.C.	REVISED -						274	09-03138-00-BR	VERMILION	40	30
ILLINOIS PROFESSIONAL DESIGN FIRM L8 / PE / SE CORP. 184.000999	PLLOT DATE = 8/14/2017	CHECKED - S.W.M.	REVISED -		CARROLL ROAD DISTRICT				CONTRACT NO. 91528				
		DATE - 08/14/17	REVISED -		ILLINOIS FED. AID PROJECT HVCN463								

SCALE: 5H:2V SHEET NO. 11 OF 21 SHEETS STA. 10+25.00 TO STA. 10+25.00

DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	AREAS CHECKED
NO.	

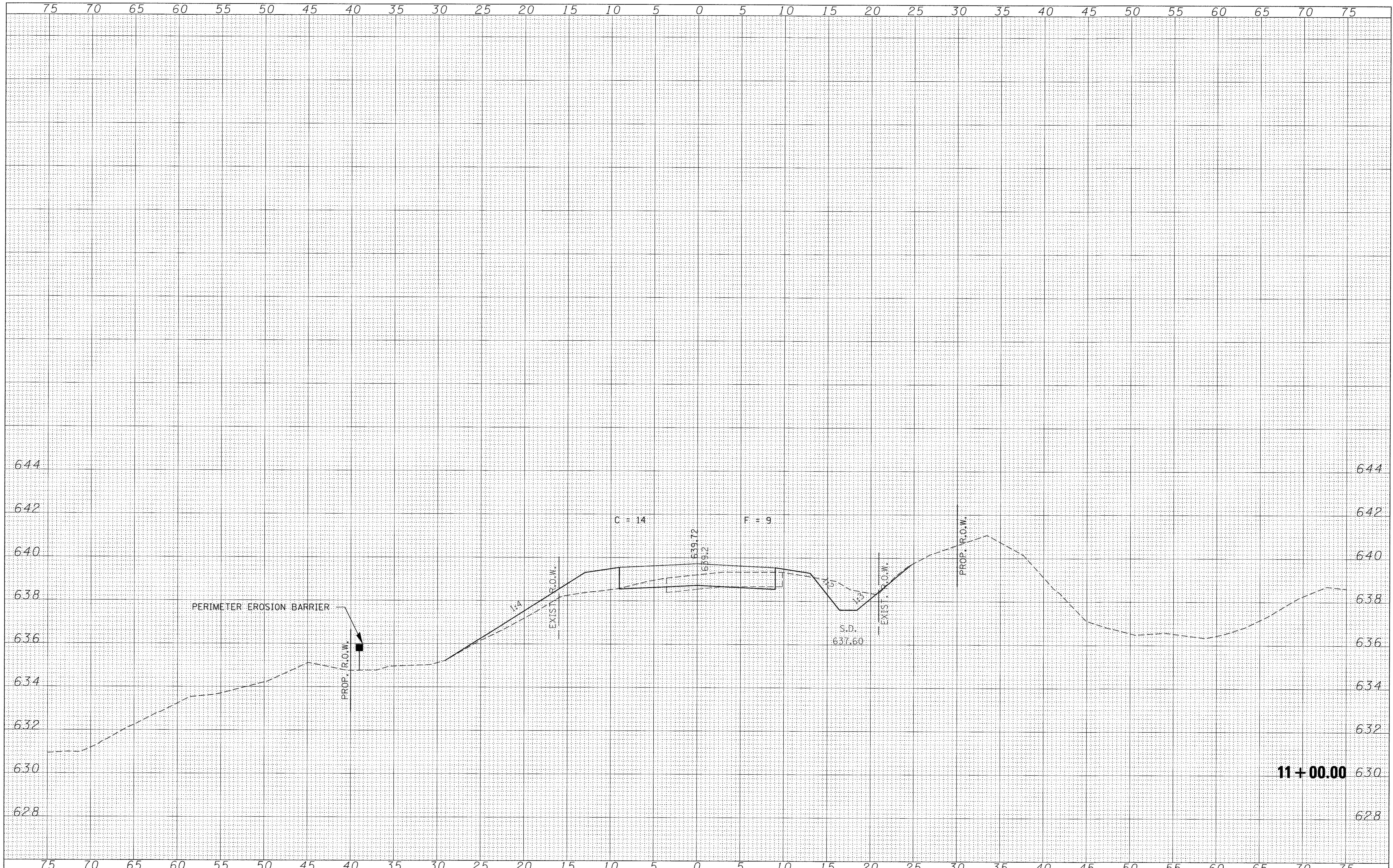
DATE	BY
SURVEYED	PLOTTED
NOTE BOOK	AREAS CHECKED
NO.	



FILE NAME = 140200-sht-sxs.dgn	USER NAME = #USER#	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS VERMILION COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS				
HAMPTON, LENZINI AND RENWICK, INC. 308 STEVENSON DRIVE SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = #SCALE#	DRAWN - L.G.C.	REVISED -		TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ILR ILLINOIS PROFESSIONAL DESIGN FIRM 18 / PE / SE CORP. 184.000959	PLOT DATE = 8/14/2017	CHECKED - S.W.M.	REVISED -		274	09-03138-00-BR	VERMILION	40	32
		DATE - 08/14/17	REVISED -		CARROLL ROAD DISTRICT		VERMILION	CONTRACT NO. 91528	
				SCALE: 5H:2V	SHEET NO. 13 OF 21 SHEETS		STA. 10+75.00 TO STA. 10+75.00		
ILLINOIS FED. AID PROJECT HVCN463									

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

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



11 + 00.00

FILE NAME = 1402200-ahs-sxs.dgn
HAMPTON, LENZINI AND RENWICK, INC.
 3060 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 184.000959

USER NAME = #USER#
 PLOT SCALE = #SCALE#
 PLOT DATE = 8/14/2017

DESIGNED - J.W.F.
 DRAWN - L.G.C.
 CHECKED - S.W.M.
 DATE - 08/14/17

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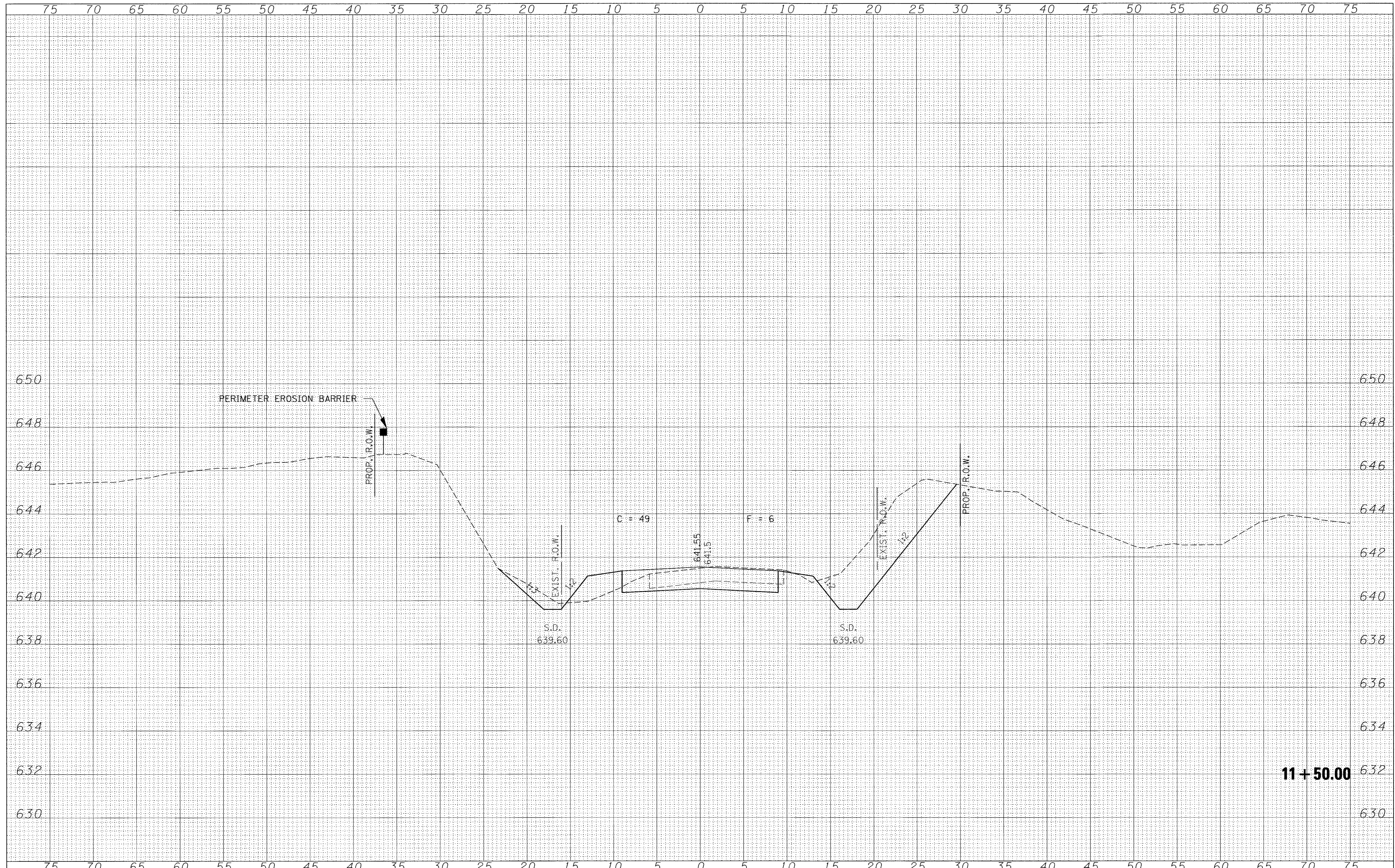
**STATE OF ILLINOIS
 VERMILION COUNTY HIGHWAY DEPARTMENT**

STATION CROSS SECTIONS
 SCALE: 5H:2V SHEET NO. 14 OF 21 SHEETS STA. 11+00.00 TO STA. 11+00.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
274	09-03138-00-BR	VERMILION	40	33
CARROLL ROAD DISTRICT			CONTRACT NO. 91528	

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

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

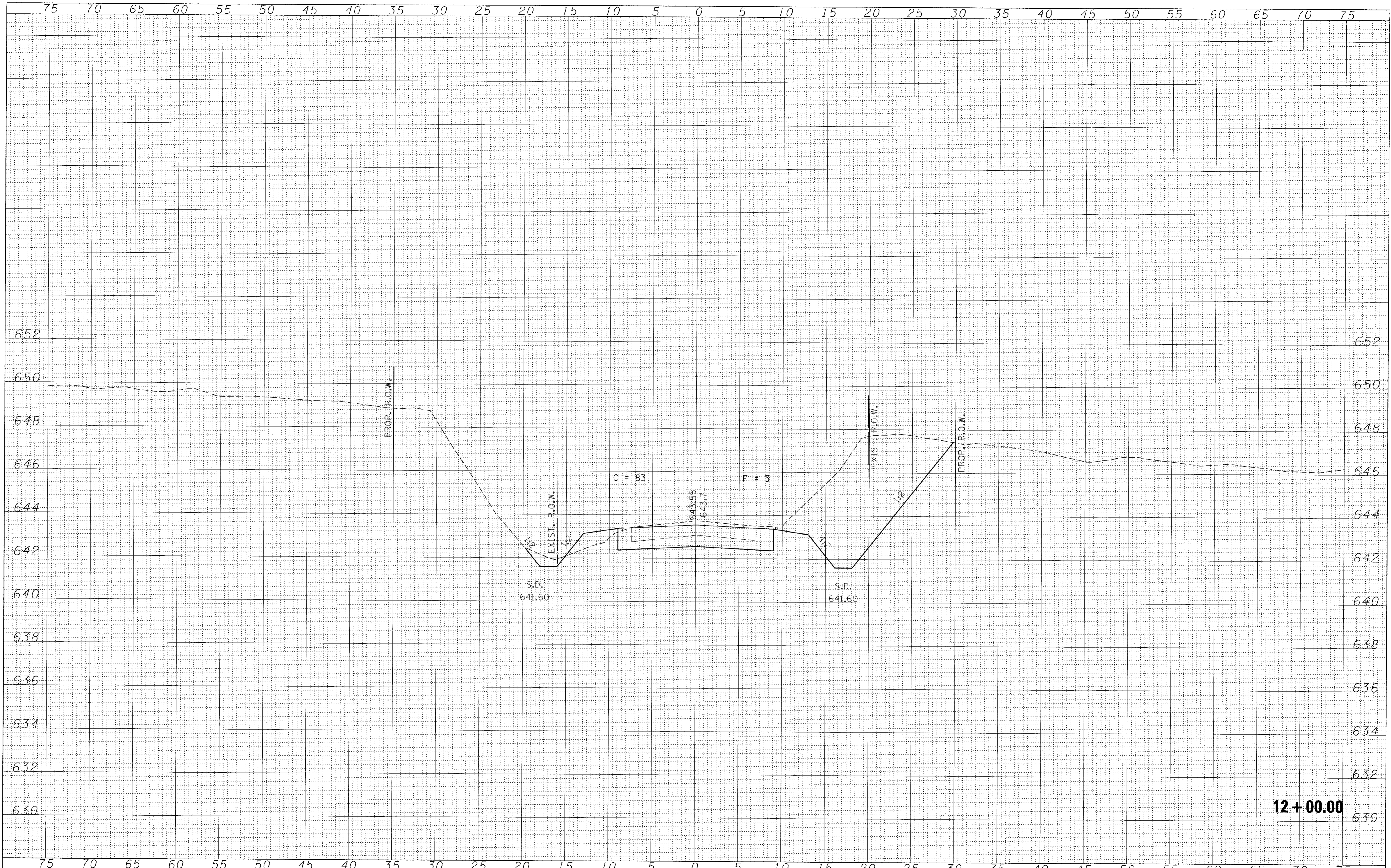


11 + 50.00

FILE NAME = 148200-sht-xxs.dgn	USER NAME = \$USER\$	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS VERMILION COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS		TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62705 ILLINOIS PROFESSIONAL DESIGN FIRM L8 / PE / SE CORP. 184-000959	PLOT SCALE = \$SCALE\$	DRAWN - L.G.C.	REVISED -		274	09-03138-00-BR	VERMILION	40	34		
	PLOT DATE = 8/14/2017	CHECKED - S.W.M.	REVISED -		CARROLL ROAD DISTRICT				CONTRACT NO. 91528		
		DATE - 08/14/17	REVISED -		SCALE: 5H:2V	SHEET NO. 15 OF 21 SHEETS	STA. 11+50.00	TO STA. 11+50.00	ILLINOIS FED. AID PROJECT HVCN4631		

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

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



12+00.00

FILE NAME = 140200-sh1-sxs.dgn
 HAMPTON, LENZINI AND RENWICK, INC.
 3008 STEVENSON DRIVE, SUITE 301
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 104.000000

USER NAME = @USER@
 PLOT SCALE = #SCALE#
 PLOT DATE = 8/14/2017

DESIGNED - J.W.F.
 DRAWN - L.C.C.
 CHECKED - S.W.M.
 DATE - 08/14/17

REVISED -
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**STATE OF ILLINOIS
 VERMILION COUNTY HIGHWAY DEPARTMENT**

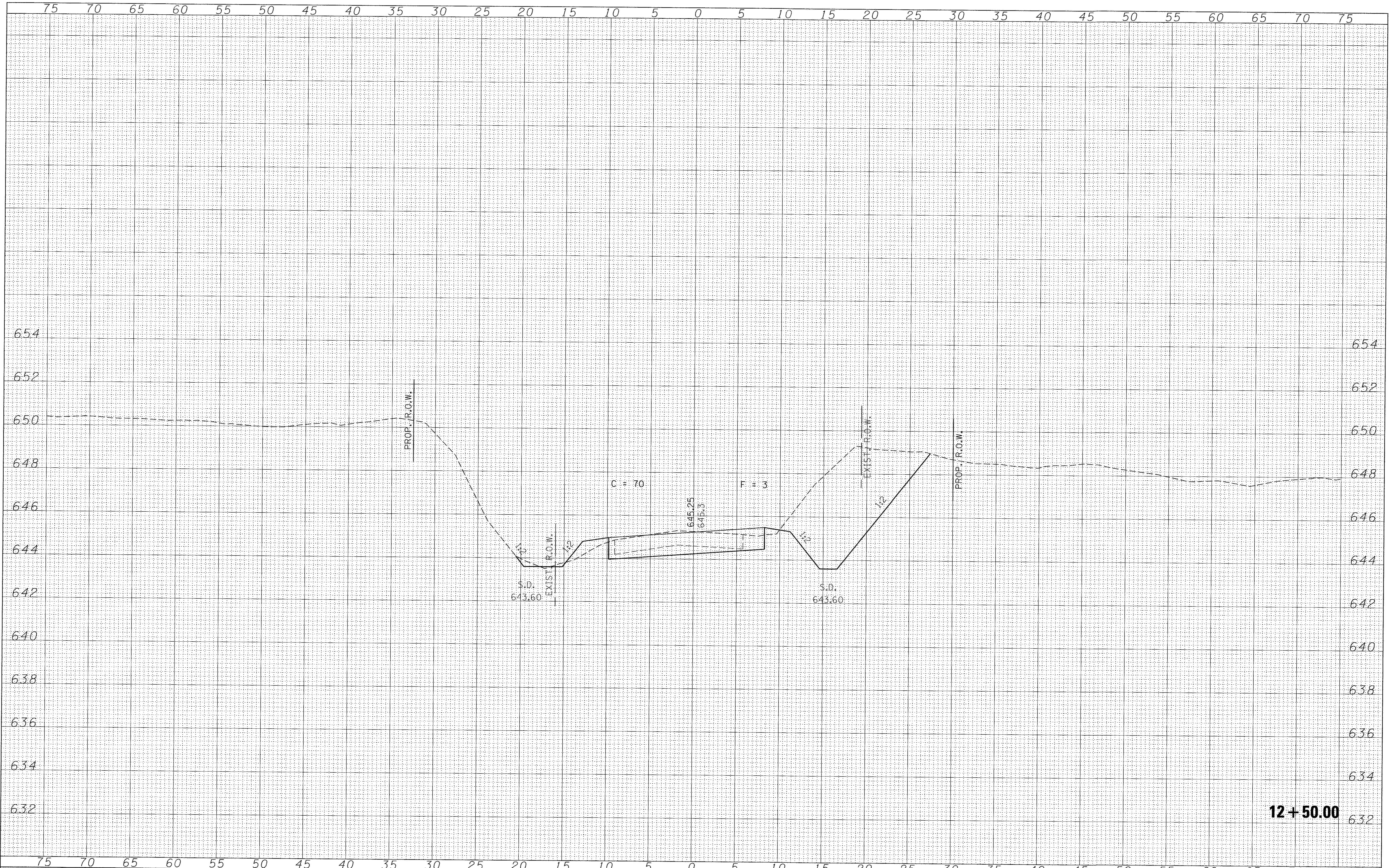
STATION CROSS SECTIONS
 SCALE: 5H:2V
 SHEET NO. 16 OF 21 SHEETS
 STA. 12+00.00 TO STA. 12+00.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
274	09-03138-00-BR	VERMILION	40	35
CARROLL ROAD DISTRICT			CONTRACT NO. 91528	

ILLINOIS FED. AID PROJECT HVCN463

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

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



FILE NAME = 140200-sh1-sxs.dgn
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 DESIGNED - J.W.F.
 DRAWN - L.G.C.
 CHECKED - S.W.M.
 DATE - 08/14/17
 PLOT SCALE = #SCALE#
 PLOT DATE = 8/14/2017

DESIGNED - J.W.F.
 DRAWN - L.G.C.
 CHECKED - S.W.M.
 DATE - 08/14/17

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**STATE OF ILLINOIS
 VERMILION COUNTY HIGHWAY DEPARTMENT**

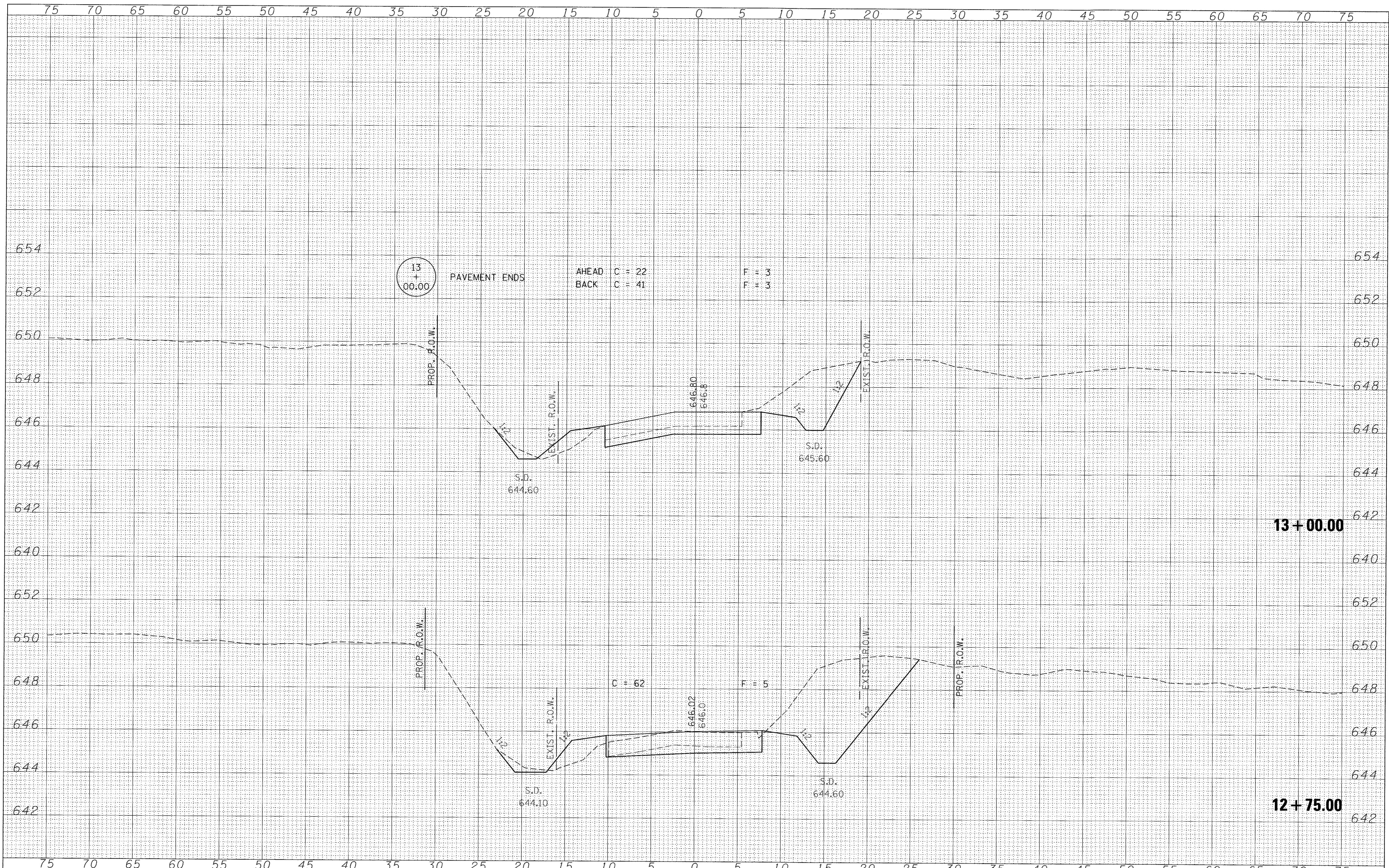
STATION CROSS SECTIONS
 SCALE: 5H:2V
 SHEET NO. 17 OF 21 SHEETS
 STA. 12+50.00 TO STA. 12+50.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
274	09-03138-00-BR	VERMILION	40	36
CARROLL ROAD DISTRICT			CONTRACT NO. 91528	

ILLINOIS FED. AID PROJECT HVCN463

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

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



FILE NAME = 140200-sh1-sxs.dgn
 HAMPTON, LENZINI AND RENWICK, INC.
 308 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / DE CORP. 184.000959

USER NAME = #USER#
 PLOT SCALE = #SCALE#
 PLOT DATE = 8/14/2017

DESIGNED - J.W.F.
 DRAWN - L.G.C.
 CHECKED - S.W.M.
 DATE - 08/14/17

REVISED -
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STATE OF ILLINOIS
 VERMILION COUNTY HIGHWAY DEPARTMENT

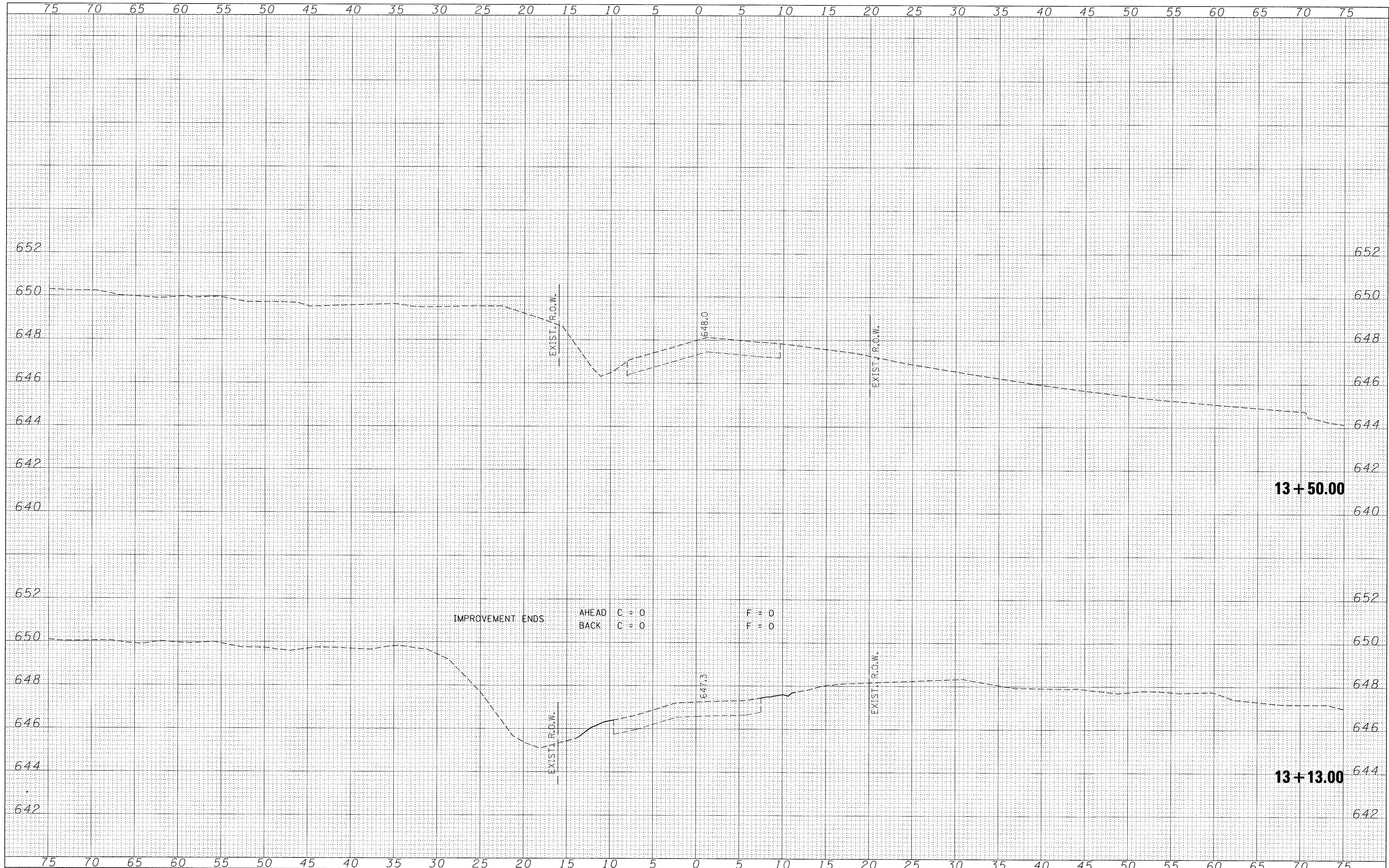
STATION CROSS SECTIONS
 SCALE: 5H:2V
 SHEET NO. 18 OF 21 SHEETS
 STA. 12+75.00 TO STA. 13+00.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
274	09-03138-00-BR	VERMILION	40	37
CARROLL ROAD DISTRICT			CONTRACT NO. 91528	

[ILLINOIS] FED. AID PROJECT HVCN14631

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

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



FILE NAME = 1402200-shr-sss.dgn
HAMPTON, LENZINI AND RENWICK, INC.
 3080 STEVENSON DRIVE, SUITE 201
 SPRINGFIELD, ILLINOIS 62702
 ILLINOIS PROFESSIONAL DESIGN FIRM
 LS / PE / SE CORP. 194.000959

USER NAME = #USER#
 PLOT SCALE = #SCALE#
 PLOT DATE = 8/14/2017

DESIGNED - J.W.F.
 DRAWN - L.G.C.
 CHECKED - S.W.M.
 DATE - 08/14/17

REVISED -
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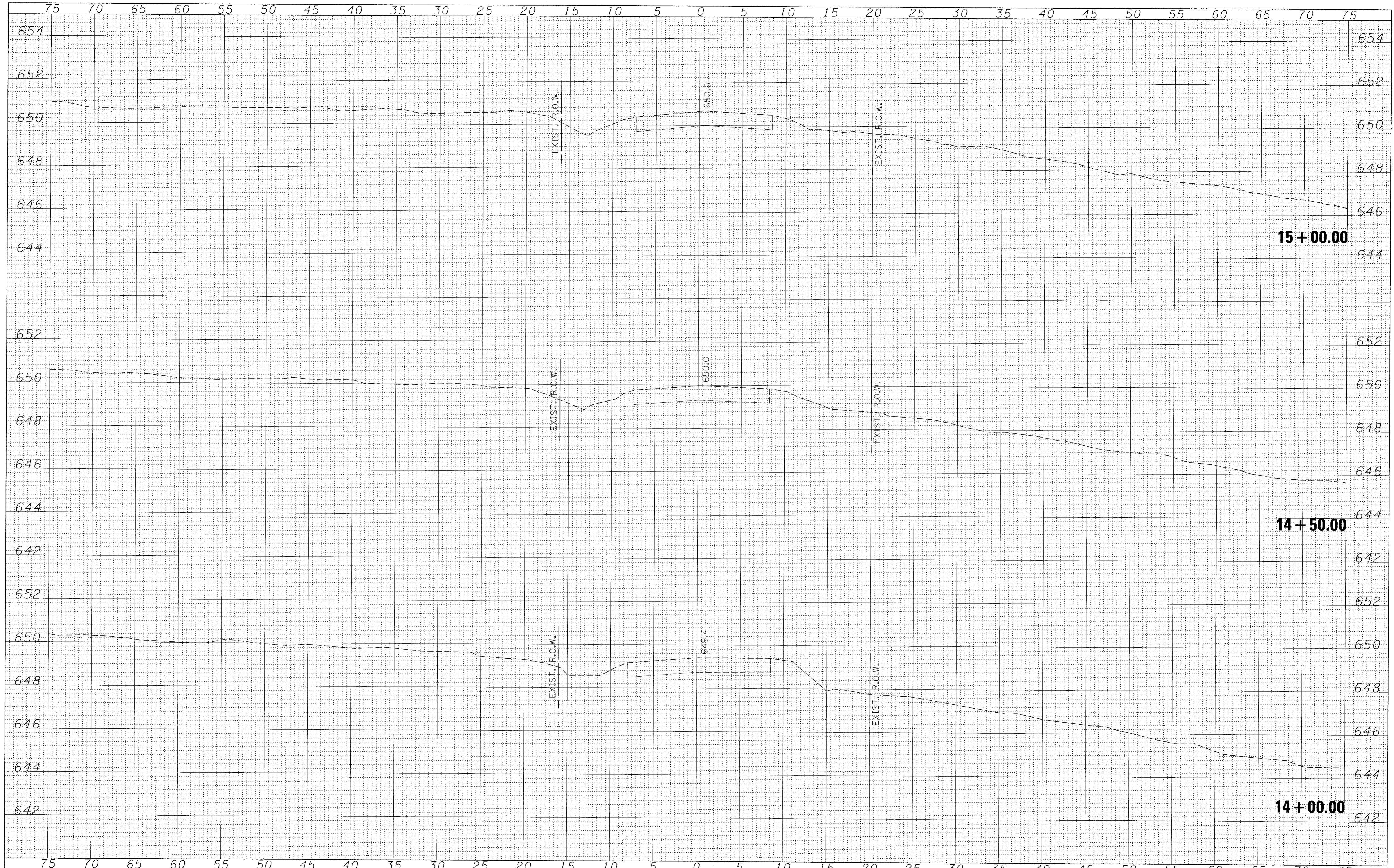
**STATE OF ILLINOIS
 VERMILION COUNTY HIGHWAY DEPARTMENT**

STATION CROSS SECTIONS
 SCALE: 5H:2V SHEET NO. 19 OF 21 SHEETS STA. 13+13.00 TO STA. 13+50.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
274	09-03138-00-BR	VERMILION	40	38
CARROLL ROAD DISTRICT			CONTRACT NO. 91528	
[ILLINOIS] FED. AID PROJECT HVCN(463)				

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

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



FILE NAME = 140200-aht-axs.dgn
 HAMPTON, LENZINI AND RENWICK, INC.
 3005 STEVENSON DRIVE, SUITE 207
 SPRINGFIELD, ILLINOIS 62703
 ILLINOIS PROFESSIONAL DESIGN FIRM
 18 / PE / BE CORP. 194.000899

USER NAME = #USER#
 PLOT SCALE = #SCALE#
 PLOT DATE = 8/14/2017

DESIGNED - J.W.F.
 DRAWN - L.G.C.
 CHECKED - S.W.M.
 DATE - 08/14/17

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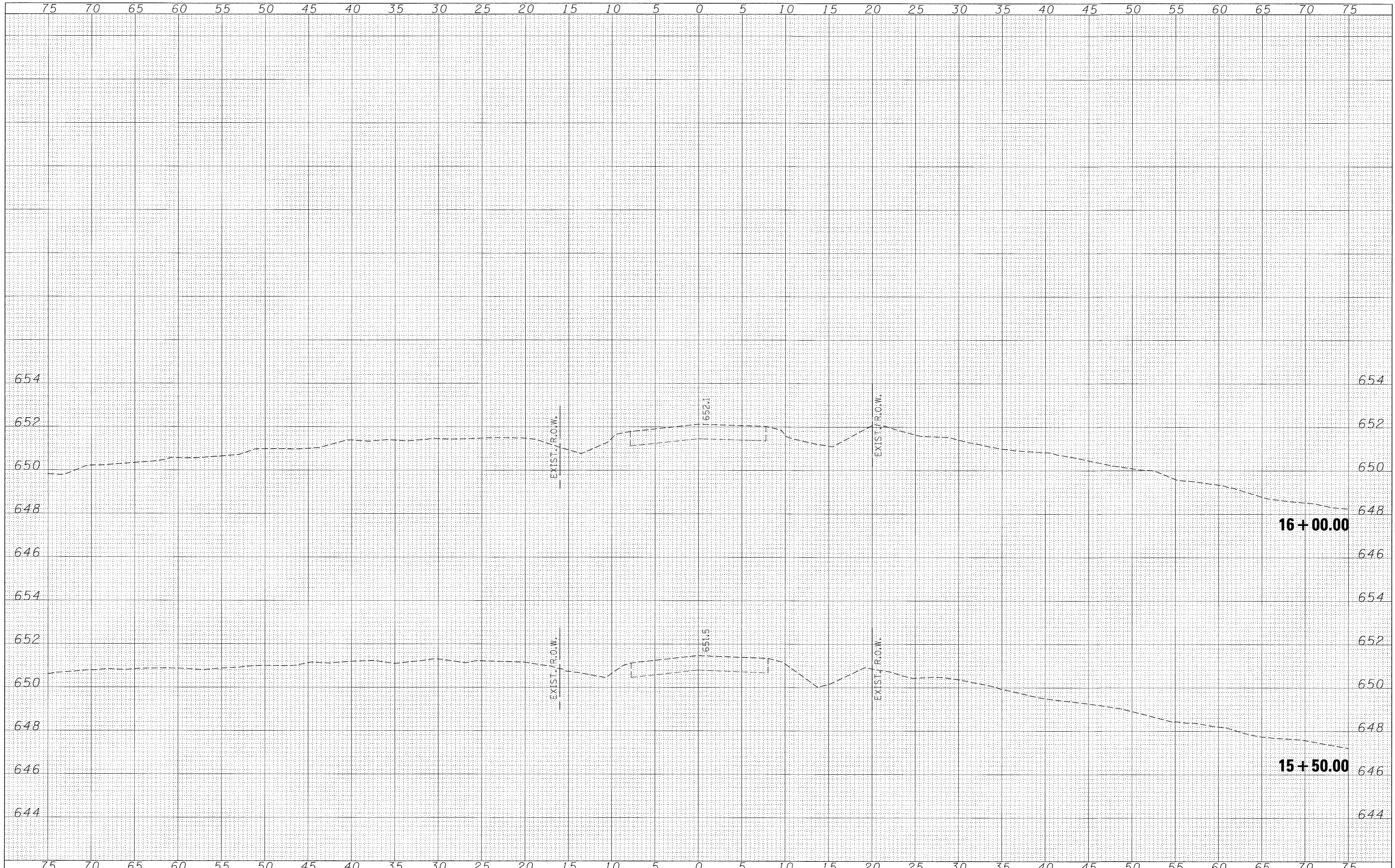
STATE OF ILLINOIS
 VERMILION COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
 SCALE: 5H:2V
 SHEET NO. 20 OF 21 SHEETS
 STA. 14+00.00 TO STA. 15+00.00

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
274	09-03138-00-BR	VERMILION	40	39
CARROLL ROAD DISTRICT		VERMILION	CONTRACT NO. 91528	
ILLINOIS FED. AID PROJECT HVCW463				

BY	DATE
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NOTE BOOK	
AREAS CHECKED	
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BY	DATE
SURVEYED	
PLOTTED	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME = 140200-sh1-sxs.dgn	USER NAME = #USER#	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS VERMILION COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS			TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3088 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS/PE/SE CORP. 194-00999		DRAWN - L.G.C.	REVISED -					274	09-03138-00-BR	VERMILION	40	40
	PLOT SCALE = #SCALE#	CHECKED - S.W.M.	REVISED -		CARROLL ROAD DISTRICT			CONTRACT NO. 91528				
	PLOT DATE = 8/14/2017	DATE - 08/14/17	REVISED -		SCALE: 5H:2V	SHEET NO. 21 OF 21 SHEETS	STA. 15+50.00	TO STA. 16+00.00	[ILLINOIS] FED. AID PROJECT HVCN(463)			