

06/17/2022 LETTING ITEM 199

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 410	17-00137-00-BR	WARREN	51	1
FED. ROAD DIST. NO.	ILLINOIS CONTRACT NO. 89760			

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED
ILLINOIS SPECIAL BRIDGE PROGRAM

PROJECT 0N9I(138)
SECTION 17-00137-00-BR
WARREN COUNTY

C.H. 4 / F.A.S. 410 / 155TH STREET / 280TH
PROPOSED STRUCTURE NO. 094-3042
C-94-028-19
PRICE BRIDGE

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	SUMMARY OF QUANTITIES AND GENERAL NOTES
3.	SCHEDULE OF QUANTITIES
4-5.	TYPICAL CROSS SECTIONS
6.	SLOPE STEPS DETAIL
7-8.	PLAN AND PROFILE
9.	INTERSECTION & ENTRANCE DETAILS
10.	GUARDRAIL LAYOUT
11.	SHOULDER LAYOUT
12-34.	BRIDGE PLANS
35-51.	STATION CROSS SECTIONS

SEE SHEET 3 FOR
HIGHWAY STANDARDS:

UTILITIES

AMEREN IP
1050 WEST BOULEVARD
BELLEVILLE, IL 62221

FRONTIER COMMUNICATIONS
214 S. 1ST STREET
MONMOUTH, IL 61462

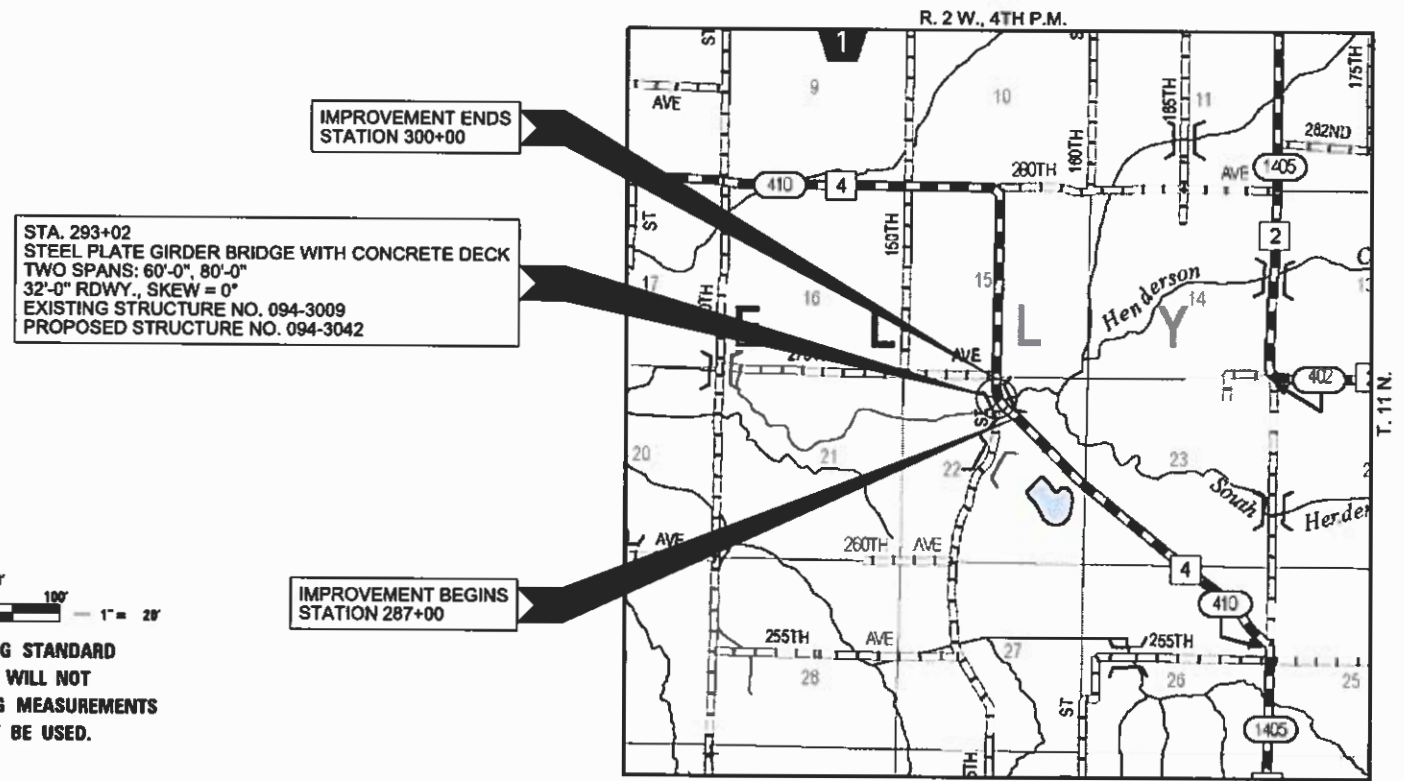


ILLINOIS DEPARTMENT OF TRANSPORTATION

APPROVED April 18th 2022
[Signature]
COUNTY ENGINEER

PASSED 04-18 2022
[Signature]
DISTRICT FOUR ENGINEER OF LOCAL ROADS & STREETS
April 18, 2022
[Signature]
REGION THREE ENGINEER

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



LOCATION MAP



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: MAJOR COLLECTOR (575 ADT)
DESIGN SPEED: 40 MPH
DESIGN TRAFFIC: 575 ADT

CATALOG NO. 035708-00
CONTRACT NO. 89760 PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

APPROXIMATE SCALE: 0 1/2 MILE
NET LENGTH OF SECTION = 1300 FEET = 0.246 MILES
GROSS LENGTH OF SECTION = 1300 FEET = 0.246 MILES

WARNING

CALL 811
BEFORE YOU DIG
DIG NO: A1801289

DATE: 03/08/2022

HAMPTON, LENZINI AND RENWICK, INC.
CIVIL ENGINEERS - STRUCTURAL ENGINEERS - LAND SURVEYORS
3085 STEVENSON DRIVE, SUITE 201
SPRINGFIELD, ILLINOIS 62703
217.548.3400 www.hlrengineering.com
184 000058
ILLINOIS PROFESSIONAL DESIGN FIRM L8 / PE / SE CORPORATION

EXPIRES: 11/30/2023 PROJECT NUMBER: 18.0027.130 DATE: 03/02/2022

SUMMARY OF QUANTITIES

CODE NO.	ITEM	CONSTRUCTION TYPE CODE 0010	
		UNIT	TOTAL QUANTITY
20200100	EARTH EXCAVATION	CU YD	1,052
20300100	CHANNEL EXCAVATION	CU YD	565
20400800	FURNISHED EXCAVATION	CU YD	40
25100630	EROSION CONTROL BLANKET	SQ YD	3,053
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	64
28100209	STONE RIPRAP, CLASS A5	TON	1,300
28200200	FILTER FABRIC	SQ YD	1,145
28300400	AGGREGATE DITCH	TON	835
35100100	AGGREGATE BASE COURSE, TYPE A	TON	1,733
40600285	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	POUND	7,778
40600295	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POUND	1,578
40603215	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-9.5FG, N50	TON	307
40604100	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5FG, MIX "C", N50	TON	226
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	44
48101200	AGGREGATE SHOULDERS, TYPE B	TON	486
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	110
50200300	COFFERDAM EXCAVATION	CU YD	50
50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	85.3
50300255	CONCRETE SUPERSTRUCTURE	CU YD	156.6
50300260	BRIDGE DECK GROOVING	SQ YD	717
50300265	SEAL COAT CONCRETE	CU YD	32
50300280	CONCRETE ENCASEMENT	CU YD	15.0
50300300	PROTECTIVE COAT	SQ YD	1,040
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	90.0
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1
50500505	STUD SHEAR CONNECTORS	EACH	3,120
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	82,520
50901050	STEEL RAILING, TYPE SM	FOOT	344
51201600	FURNISHING STEEL PILES HP12X53	FOOT	845
51202305	DRIVING PILES	FOOT	845
51203600	TEST PILE STEEL HP12X53	EACH	2
51500100	NAME PLATES	EACH	1
52100520	ANCHOR BOLTS, 1"	EACH	30
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	2
542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"	FOOT	30
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	276
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	72

^ SEE SPECIAL PROVISIONS
* SPECIALTY ITEMS

SUMMARY OF QUANTITIES

CODE NO.	ITEM	CONSTRUCTION TYPE CODE 0010	
		UNIT	TOTAL QUANTITY
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	7
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	148
60108104	PIPE UNDERDRAINS, TYPE 1, 4"	FOOT	120
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	37.5
* ^ 63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	3
67100100	MOBILIZATION	L SUM	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	132
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	44
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	5,200
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	10
^ X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.70
^ X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	490
* ^ X6330725	STEEL PLATE BEAM GUARDRAIL (SHORT RADIUS)	FOOT	12.5
^ X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1
# ^ Z0076600	TRAINEES	HOURL	1,000
# ^ Z0013798	CONSTRUCTION LAYOUT	L SUM	1
# Z0676604	TRAINEES TRAINING PROGRAM GRADUATE	HOURL	1,000

^ SEE SPECIAL PROVISIONS
* SPECIALTY ITEMS
0042

GENERAL NOTES

- 1) ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ADOPTED JANUARY 1, 2022", (HERE IN AFTER REFERRED TO AS THE STANDARD SPECIFICATIONS; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; THE DETAILS IN THE PLANS AND THE "SPECIAL PROVISIONS" INCLUDED IN THE DOCUMENTS.
- 2) ALL CLEARING, GRUBBING, FENCE REMOVAL, PAVEMENT REMOVAL, AND REMOVAL OF EXISTING DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION. ALL AGGREGATE AND BITUMINOUS PAVEMENT SHALL BE REMOVED AND PROPERLY DISPOSED OF BY THE CONTRACTOR IN A METHOD APPROVED BY THE ENGINEER. REMOVAL AND DISPOSAL OF PAVEMENT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 3) THE LOCATION ON THE PLANS OF EXISTING DRAINAGE STRUCTURES, TELEPHONE LINES, ELECTRIC LINES, WATER SERVICE LINES, GAS MAINS, AND OTHER UTILITY FACILITIES AS SHOWN ON THE PLANS ARE BASED ON FIELD INVESTIGATIONS AND THE BEST INFORMATION AVAILABLE, BUT THE LOCATIONS ARE NOT GUARANTEED. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN THEIR EXACT LOCATION FROM THE INDIVIDUAL UTILITY COMPANIES AND BY FIELD INSPECTION.
- 4) THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES

AGGREGATE BASE COURSE	2.05 TON/CU YD
POROUS GRANULAR EMBANKMENT	1.50 TON/CU YD
STONE RIPRAP	1.75 TON/CU YD

BITUMINOUS MATERIALS APPLICATION RATES	
SURFACE TYPE	RESIDUAL RATE
AGGREGATE BASE (PRIME COAT)	0.250 LB/SQ FT
MILLED HMA OR PCC (TACK COAT)	0.050 LB/SQ FT
EXISTING PAVEMENT (TACK COAT)	0.050 LB/SQ FT
TACK COAT (BETWEEN LIFTS)	0.025 LB/SQ FT
- 5) THE AREA TO BE SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER.
SEEDING, CLASS 2 (SPECIAL) = 0.70 ACRES
- 6) ALL WASTE MATERIAL FROM EXCAVATIONS SHALL BE DISPOSED OF BY THE CONTRACTOR. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- 7) COMMITMENTS:
1) A BAT ASSESSMENT SHALL BE CONDUCTED IF WORK OCCURS TO EXISTING STRUCTURE AFTER MARCH 26, 2021.

FILE NAME = 180027-916-summary.dgn	USER NAME = rmosck	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3025 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62767	PLOT SCALE = 55CALES	DRAWN - R.D.H.	REVISED -
ILLINOIS PROFESSIONAL DESIGN FIRM LS - PE / SE CORP. 184-001913	PLOT DATE = 3/2/2022	CHECKED - S.W.M.	REVISED -
		DATE - 03/02/2022	REVISED -

**STATE OF ILLINOIS
WARREN COUNTY HIGHWAY DEPARTMENT**

SUMMARY OF QUANTITIES AND GENERAL NOTES

SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. TO STA.
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F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
410	17-00137-00-BR	WARREN	51	2
PRICE BRIDGE		CONTRACT NO. 89760		
ILLINOIS FED. AID PROJECT 0901(109)				

EROSION CONTROL TABLE			
LOCATION	SEEDING, CLASS 2 (SPECIAL)	EROSION CONTROL BLANKET	TEMPORARY EROSION CONTROL SEEDING
	X2501000	25100630	28000250
C.H. 4 / F.A.S. 410	ACRE	SQ YD	POUND
STA. 288+00.00 TO STA. 292+30.17	0.40	1659	35
STA. 293+73.83 TO STA. 299+00.00	0.30	1394	29
TOTAL	0.7	3053	64

EARTHWORK SCHEDULE								
LOCATION	EARTH EXCAVATION	CHANNEL EXCAVATION	MISC. EXCAVATION	SHRINKAGE FACTOR	PERCENT USED	EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT REQUIRED	EARTHWORK BALANCE
	CU.YD.	CU.YD.	CU.YD.			CU.YD.	CU.YD.	CU.YD.
C.H. 4 / F.A.S. 410								
STA. 287+00.00 TO STA. 292+30.17	463			25.00%	100.00%	347	497	-150
STA. 292+30.17 TO STA. 293+73.83		565		25.00%	20.00%	85		85
STA. 293+73.83 TO STA. 300+00.00	589			25.00%	100.00%	442	473	-31
EXCAVATION FROM RIPRAP/COFFERDAM, etc			752	25.00%	10.00%	56		56
TOTAL	1052	565				930	971	-40
USE	1052	565						40

FURNISHED EXCAVATION 40 CU YDS

PIPE UNDERDRAINS, TYPE 1, 4"		
LOCATION	LENGTH FOOT	HEADWALLS EACH
STA. 295+00	40	1
STA. 297+00	40	1
STA. 299+00	40	1
TOTAL	120	3

PAVEMENT MARKING SCHEDULE				
LOCATION	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	PAINT PAVEMENT MARKING - LINE 4"	
			EDGE LINE WHITE	DOUBLE YELLOW CENTERLINE
	70300100	70300150	78001110	
	FOOT	FOOT	FOOT	FOOT
C.H. 4 / F.A.S. 410				
LT. STA. 287+00.00 TO LT. STA. 300+00.00			1,300	
CL. STA. 287+00.00 TO CL. STA. 300+00.00	132	44		2,600
RT. STA. 287+00.00 TO LCL. STA. 300+00.00			1,300	
SUBTOTAL	132	44	2600	2600
TOTAL	132	44	5200	

ROADWAY SCHEDULE							
LOCATION	AGGREGATE BASE COURSE TYPE A	POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)	POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)	POLYMERIZED HMA ASPHALT BINDER COURSE IL 9.5FG, N50	POLYMERIZED HMA ASPHALT SURFACE COURSE. IL-9.5FG, MIX "C", N50	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	AGGREGATE SHOULDERS, TYPE B
							TON
C.H. 4 / F.A.S. 410							
STA. 287+00.00 TO STA. 288+00.00		600			21		13
STA. 288+00.00 TO STA. 291+95.17	729	3001	704	137	82		237
STA. 291+95.17 TO STA. 292+31.17						22	
STA. 293+72.83 TO STA. 294+08.83						22	
STA. 294+08.83 TO STA. 299+00.00	904	3577	873	170	102		223
STA. 299+00.00 TO STA. 300+00.00		600			21		13
ENTRANCES/ SIDE ROADS	100						
TOTAL	1733	7778	1578	307	226	44	486

HIGHWAY STANDARDS

280001-08	TEMPORARY EROSION CONTROL SYSTEMS
420406	PAVEMENT CONNECTOR (HMA) FO BRIDGE APPROACH SLAB
515001-04	NAME PLATE FOR BRIDGES
542301-03	PRECAST REINFORCED CONCRETE FLARED END SECTION
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAIN
630001-12	STEEL PLATE BEAM GUARDRAIL
631011-10	TRAFFIC BARRIER TERMINAL, TYPE 2
630301-09	SHOULDER WIDENING FOR TYPE 1, (SPECIAL) GUARDRAIL TERMINALS
631032-09	TRAFFIC BARRIER TERMINAL, TYPE 6A
701006-05	OFF-ROAD OPERATIONS 2L, 2W, 4.5M (15') TO 600 MM (24") FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701901-08	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

GUARDRAIL SCHEDULE							
LOCATION	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT	TRAFFIC BARRIER TERMINAL, TYPE 6A	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL)	TRAFFIC BARRIER TERMINAL, TYPE 2	STEEL PLATE BEAM GUARDRAIL, (SHORT	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A
							FOOT
C.H. 4 / F.A.S. 410							
SEE SHEET 9 FOR LAYOUT	63000001	63100087	63100167	63100045	X6330725	7250100	78200005
	FOOT	EACH	EACH	EACH	FOOT	EACH	EACH
LT. STA. 291+48.6 TO LT. STA. 294+73.8	25	2	1	1	13	2	5
RT. STA. 291+26.9 TO RT. STA. 294+64.6	12.5	2	2	0	0	2	5
TOTAL	37.5	4	3	1	12.5	4	10

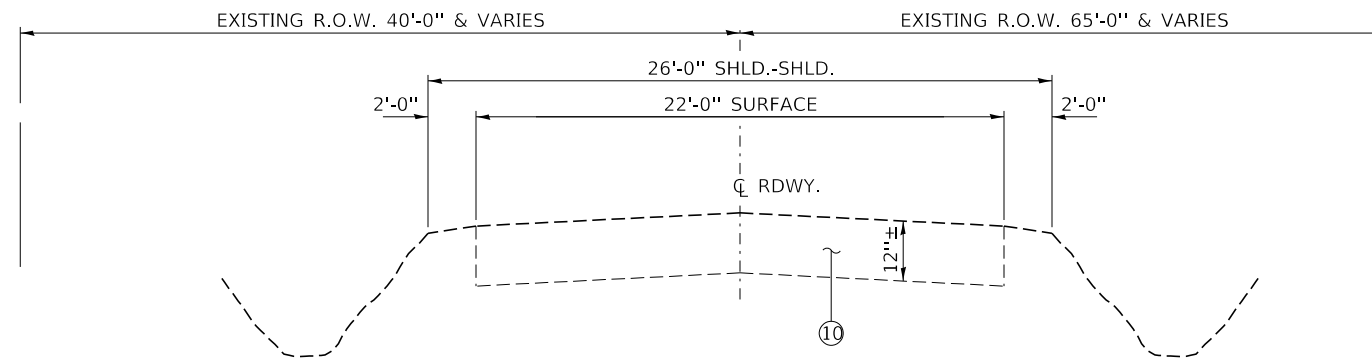
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HAMPTON, LENZINI AND RENWICK, INC. 3088 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		DRAWN - R.D.H.	REVISED -
PLOT SCALE = \$SCALE\$		CHECKED - S.W.M.	REVISED -
PLOT DATE = 3/2/2022		DATE - 03/02/2022	REVISED -

STATE OF ILLINOIS WARREN COUNTY HIGHWAY DEPARTMENT

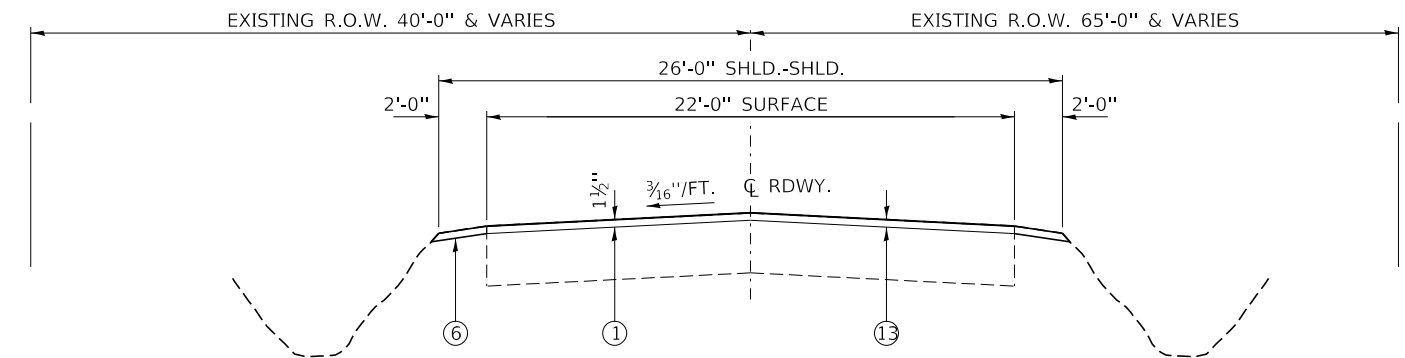
SCHEDULE OF QUANTITIES AND HIGHWAY STANDARDS

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

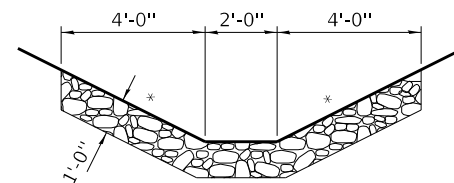
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
410	17-00137-00-BR	WARREN	51	3
PRICE BRIDGE		CONTRACT NO. 89760		
		ILLINOIS FED. AID PROJECT 0N#(138)		



EXISTING TYPICAL CROSS SECTION
STA. 287+00 TO STA. 300+00

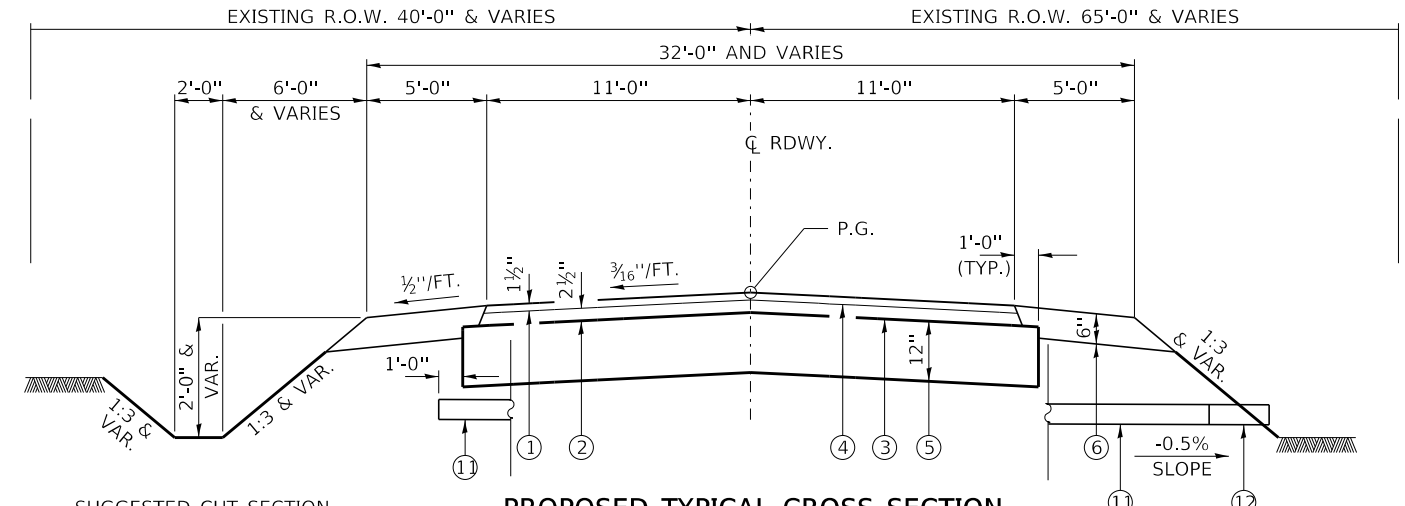


PROPOSED TYPICAL CROSS SECTION
STA. 287+00 TO STA. 288+00 AND
STA. 299+00 TO STA. 300+00



AGGREGATE DITCH
LT. & RT. STA. 293+50 TO STA. 299+00

NOTE: CONTRACTOR SHALL SHAPE THE BACKSLOPE TO ORIGINAL GRADE AFTER INSTALLATION COST INCLUDED IN AGGREGATE DITCH. QUANTITY = 835 TONS *1:2 & VARIES PER CROSS SECTIONS



SUGGESTED CUT SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

PROPOSED TYPICAL CROSS SECTION
STA. 288+00 TO STA. 289+09.86 AND
STA. 297+94.64 TO STA. 299+00

SUGGESTED FILL SECTION
CONSTRUCT AS SHOWN IN
STATION CROSS SECTIONS

LEGEND

- ① POLYMERIZED HMA SURFACE COURSE, IL-9.5FG, MIX C, N50 (1 1/2" THICKNESS)
- ② POLYMERIZED HMA BINDER COURSE, IL-9.5FG, N50 (2 1/2" THICKNESS)
- ③ POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)
- ④ POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)
- ⑤ AGGREGATE BASE COURSE, TYPE A (12")
- ⑥ AGGREGATE SHOULDERS, TYPE B (6")
- ⑦ BRIDGE APPROACH SLAB (15")
- ⑧ BRIDGE APPROACH SLAB FOOTING (10")
- ⑨ PAVEMENT CONNECTOR (HMA)
- ⑩ EXISTING OIL & CHIP SURFACE ON AGGREGATE BASE
- ⑪ PIPE UNDERDRAINS, TYPE 1, 4"
- ⑫ CONCRETE HEADWALLS FOR PIPE DRAINS
- ⑬ HOT-MIX ASPHALT REMOVAL VARIABLE DEPTH

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

LOCATIONS(S)	C.H. 4 / F.A.S. 410	C.H. 4 / F.A.S. 410
MIXTURE USE(S):	POLYMERIZED HMA SURFACE CSE	POLYMERIZED HMA BINDER CSE
PG:	PG 64-28	PG 64-28
DESIGN AIR VOIDS:	4% @ 50 Gyr.	4% @ 50 Gyr.
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL 9.5FG	IL 9.5FG
FRICTION AGGREGATE:	MIXTURE C	NONE
DENSITY TEST METHOD	NUCLEAR GUAGE	NUCLEAR GUAGE
MIXTURE WEIGHT:	112 LBS \ SY \ INCH THICKNESS	112 LBS \ SY \ INCH THICKNESS
QUALITY MANAGEMENT PROGRAM	QC/QA	QC/QA

FILE NAME = 180027-shit-tysec@ons.dgn	USER NAME = rmosck	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3088 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALE\$	DRAWN - R.D.H.	REVISED -
PLOT DATE = 3/2/2022		CHECKED - S.W.M.	REVISED -
		DATE - 03/02/2022	REVISED -

**STATE OF ILLINOIS
WARREN COUNTY HIGHWAY DEPARTMENT**

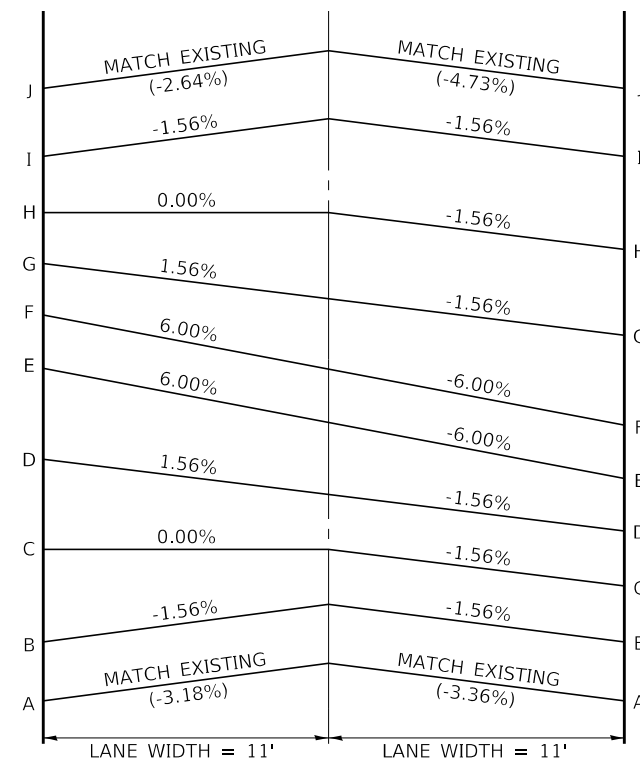
TYPICAL CROSS SECTIONS

SCALE: NONE SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
410	17-00137-00-BR	WARREN	51	4
PRICE BRIDGE		CONTRACT NO. 89760		
ILLINOIS FED. AID PROJECT 0N#138				

CURVE SUPERELEVATION TRANSITION DETAIL

OUTSIDE EDGE OF TRAVELED WAY CL & PROFILE GRADE INSIDE EDGE OF TRAVELED WAY



CURVE SUPERELEVATION TRANSITION

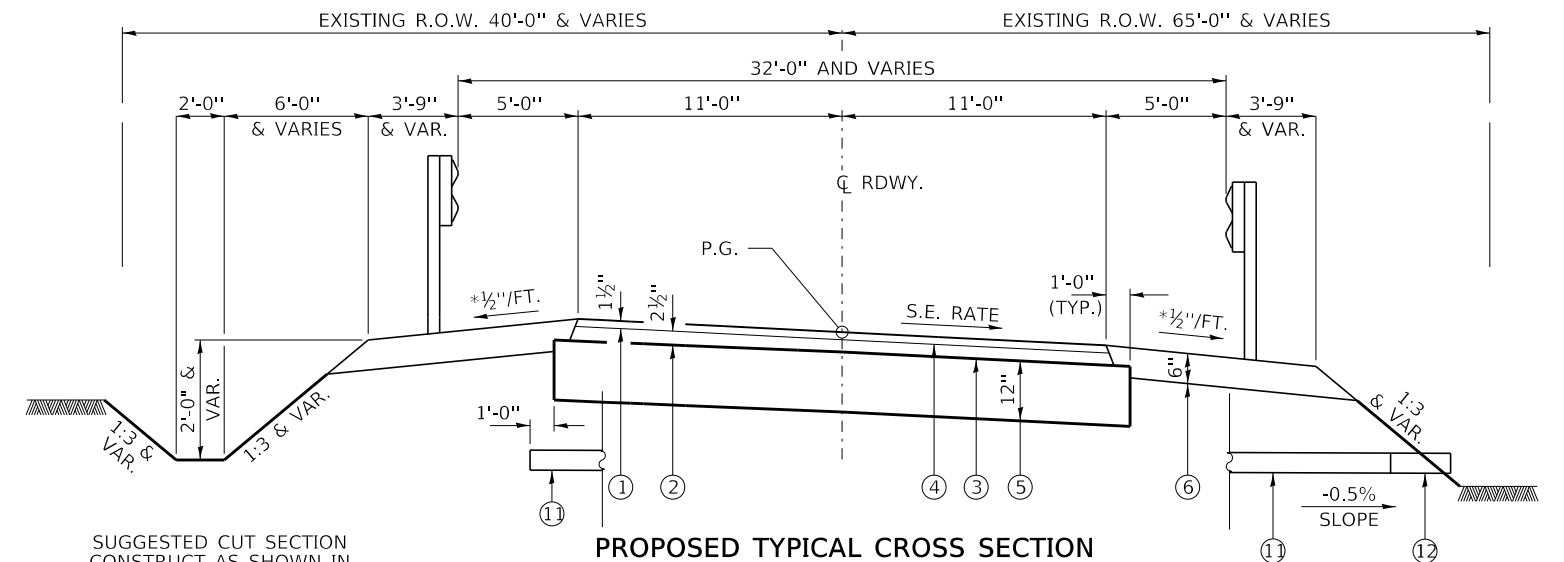
LOCATION	STATION	CROSS SLOPE		
		LEFT	RIGHT	
A	287+00.00	-3.18%	-3.36%	**
B	288+08.00	-1.56%	-1.56%	
C	288+37.50	0.00%	-1.56%	
D	288+67.00	1.56%	-1.56%	
PROPOSED STRUCTURE (6% S.E.)				
E	289+51.00	6.00%	-6.00%	
F	297+54.00	6.00%	-6.00%	
G	298+38.00	1.56%	-1.56%	
H	298+67.50	0.00%	-1.56%	
NORMAL CROWN				
I	298+97.00	-1.56%	-1.56%	
J	300+00.00	-2.64%	-4.73%	**

** MATCH EXISTING CROSS SLOPE AT THESE STATIONS

NOTE: HMA SURFACE COURSE & SURFACE REMOVAL QUANTITY INCLUDED FOR ADDITIONAL S.E. SURFACE TRANSITION AS DETERMINED BY THE ENGINEER BETWEEN STATIONS 287+00 TO 288+00 AND 299+00 TO 300+00.

LEGEND

- ① POLYMERIZED HMA SURFACE COURSE, IL.-9.5FG, MIX C, N50 (1½" THICKNESS)
- ② POLYMERIZED HMA BINDER COURSE, IL.-9.5FG, N50 (2½" THICKNESS)
- ③ POLYMERIZED BITUMINOUS MATERIALS (PRIME COAT)
- ④ POLYMERIZED BITUMINOUS MATERIALS (TACK COAT)
- ⑤ AGGREGATE BASE COURSE, TYPE A (12")
- ⑥ AGGREGATE SHOULDERS, TYPE B (6")
- ⑦ BRIDGE APPROACH SLAB (15")
- ⑧ BRIDGE APPROACH SLAB FOOTING (10")
- ⑨ PAVEMENT CONNECTOR (HMA)
- ⑩ EXISTING OIL & CHIP SURFACE ON AGGREGATE BASE
- ⑪ PIPE UNDERDRAINS, TYPE 1, 4"
- ⑫ CONCRETE HEADWALLS FOR PIPE DRAINS



SUGGESTED CUT SECTION CONSTRUCT AS SHOWN IN STATION CROSS SECTIONS

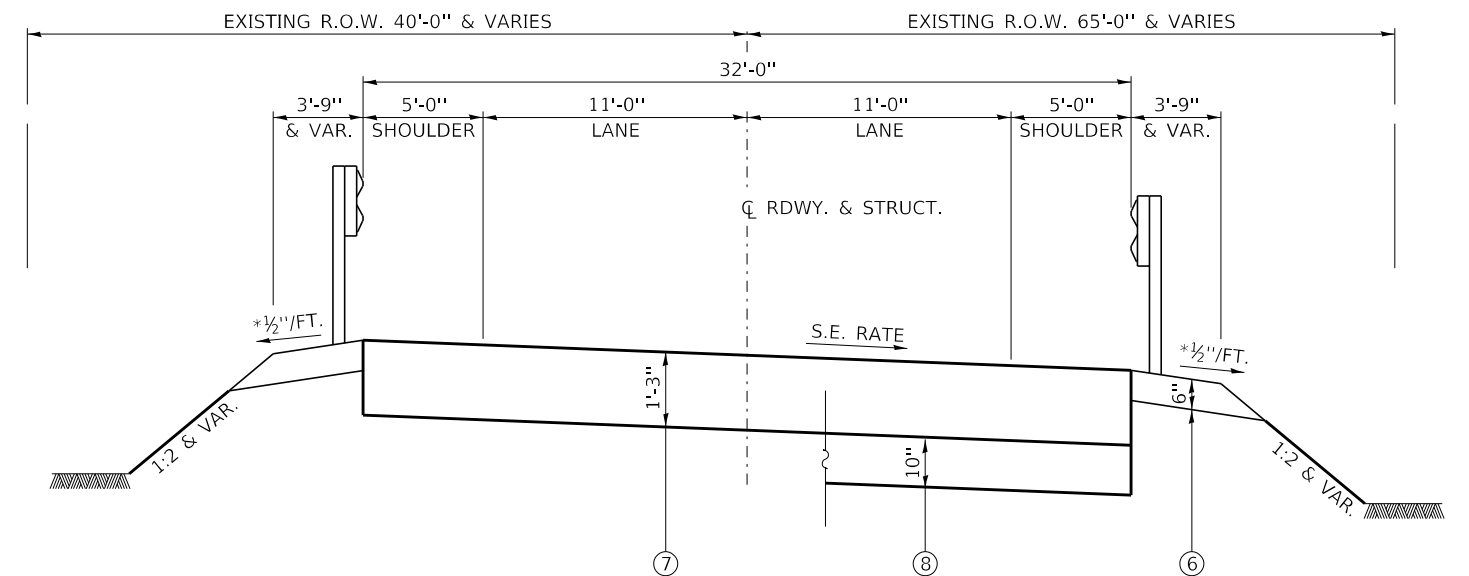
PROPOSED TYPICAL CROSS SECTION

STA. 288+00 TO STA. 292+01.25 AND
STA. 292+08.25 TO STA. 299+00

TRANSITIONS FROM THE PROPOSED SHOULDER TO THE EXISTING ROADWAY ARE TO BE CONSTRUCTED FROM STA. 288+00 TO 288+50 AND STA. 289+50 TO STA. 299+00. SEE SHEET 11 FOR TRANSITION AT BRIDGE.

SUGGESTED FILL SECTION CONSTRUCT AS SHOWN IN STATION CROSS SECTIONS

* 10% MAX. ROLLOVER



* 10% MAX. ROLLOVER

PROPOSED TYPICAL APPROACH SLAB CROSS SECTION

STA. 292+01.25 TO STA. 292+31.20 AND
STA. 293+72.80 TO STA. 294+02.76

STA. 291+98.25 TO STA. 292+08.25 AND
STA. 293+95.76 TO STA. 294+05.76

FILE NAME = 180027-shit-tysec@ons.dgn	USER NAME = rmosick	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3088 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALE\$	DRAWN - R.D.H.	REVISED -
	PLOT DATE = 3/2/2022	CHECKED - S.W.M.	REVISED -
		DATE - 03/02/2022	REVISED -

STATE OF ILLINOIS
WARREN COUNTY HIGHWAY DEPARTMENT

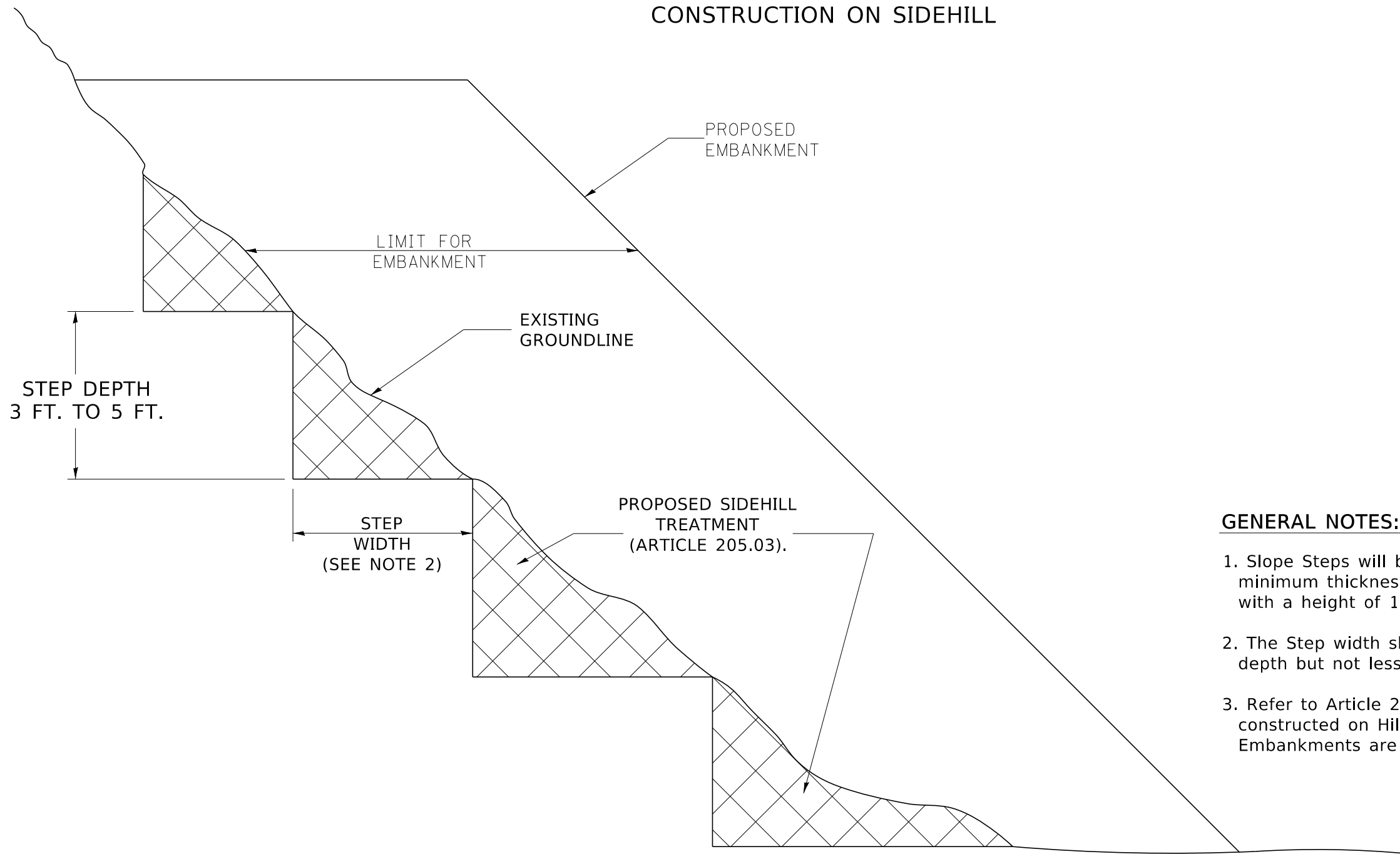
TYPICAL CROSS SECTIONS

SCALE: NONE SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
410	17-00137-00-BR	WARREN	51	5
PRICE BRIDGE		CONTRACT NO. 89760		
ILLINOIS FED. AID PROJECT 0N#(138)				

SLOPE STEPS DETAIL

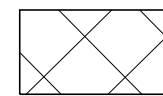
TYPICAL CROSS-SECTION EMBANKMENT CONSTRUCTION ON SIDEHILL



GENERAL NOTES:

1. Slope Steps will be required for all 12(300) minimum thickness "sliver fills" and on all fills with a height of 10 feet or greater.
2. The Step width shall be twice the Step depth but not less than 6 feet.
3. Refer to Article 205.03 for Embankment to be constructed on Hillside or Slopes, or if existing Embankments are to be widened.

REPLACEMENT MATERIAL:



STANDARD EMBANKMENT
(IN ACCORDANCE WITH
205 OF THE STANDARD SPECIFACATION).

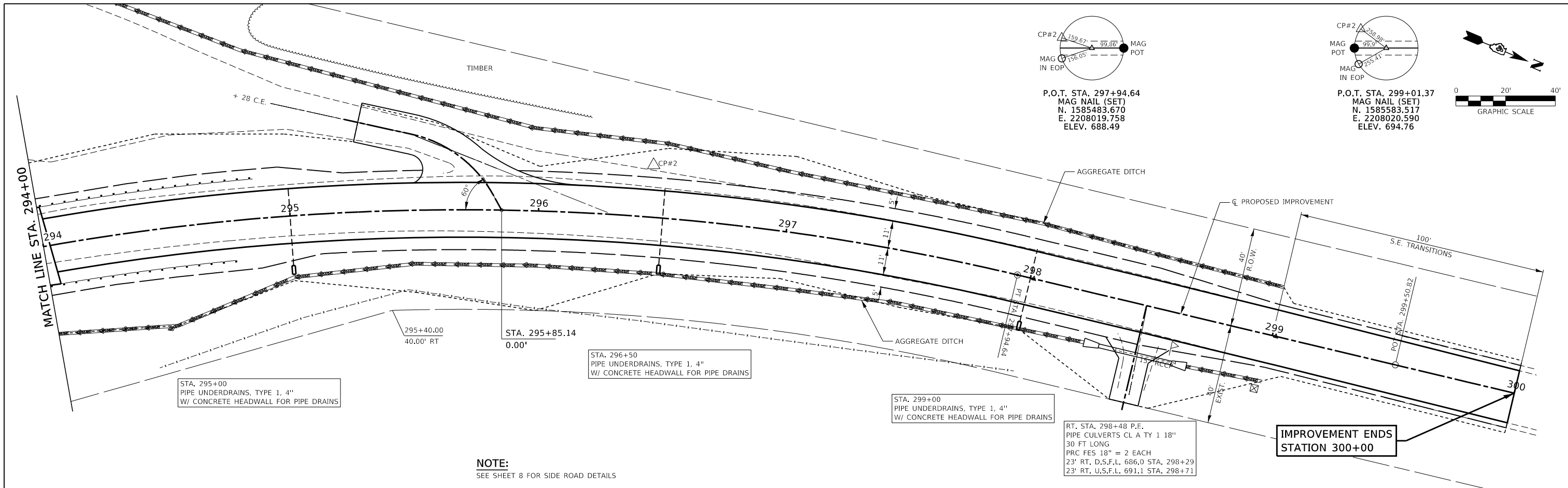
DESIGNER NOTE:
 1. EACH PROJECT SHOULD BE REVIEWED INDEPENDENTLY FOR TREATMENT REQUIRED.
 2. REFER TO THIS DETAIL WITH NOTE ON APPLICABLE TYPICAL SECTIONS.

All dimensions are in inches (millimeters) unless otherwise noted.

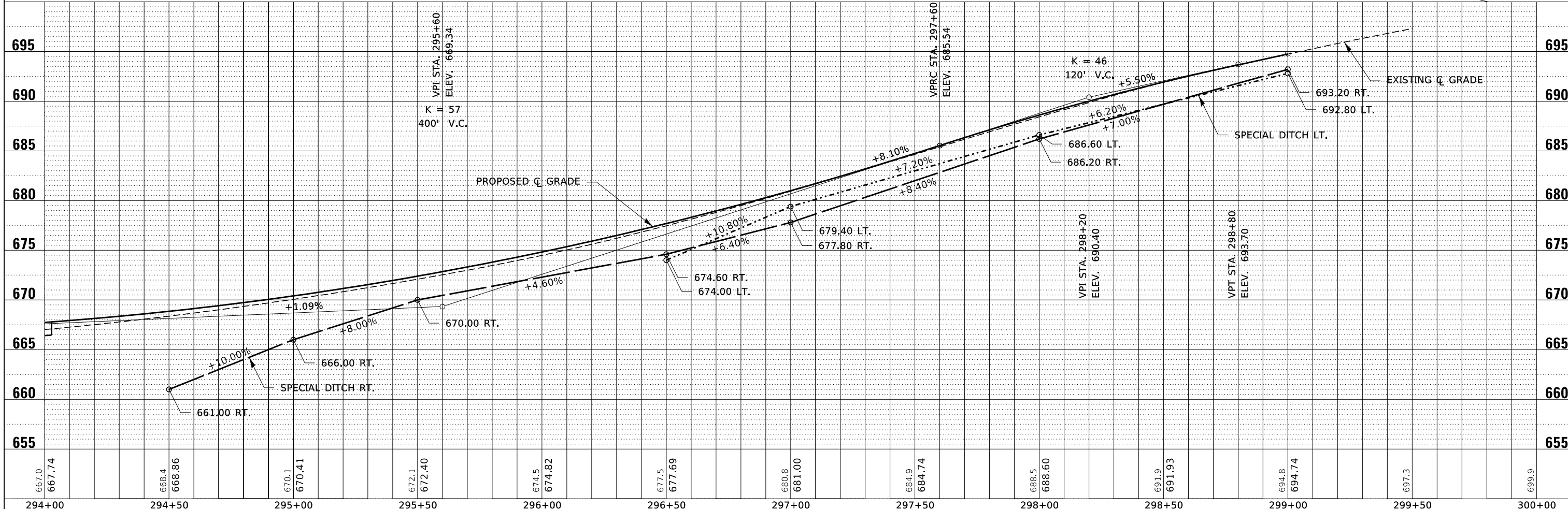
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						410	17-00137-00-BR	WARREN	51	6	
PLOT SCALE = \$SCALE\$ PLOT DATE = 3/2/2022						CHECKED - S.W.M.	REVISED -	PRICE BRIDGE		CONTRACT NO. 89760	
DATE - 03/02/2022						REVISED -	ILLINOIS FED. AID PROJECT 0N#(138)				
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.											

PLAN	REVIEWED	DATE
	PLOTTED	
	ALIGNMENT CHECKED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	

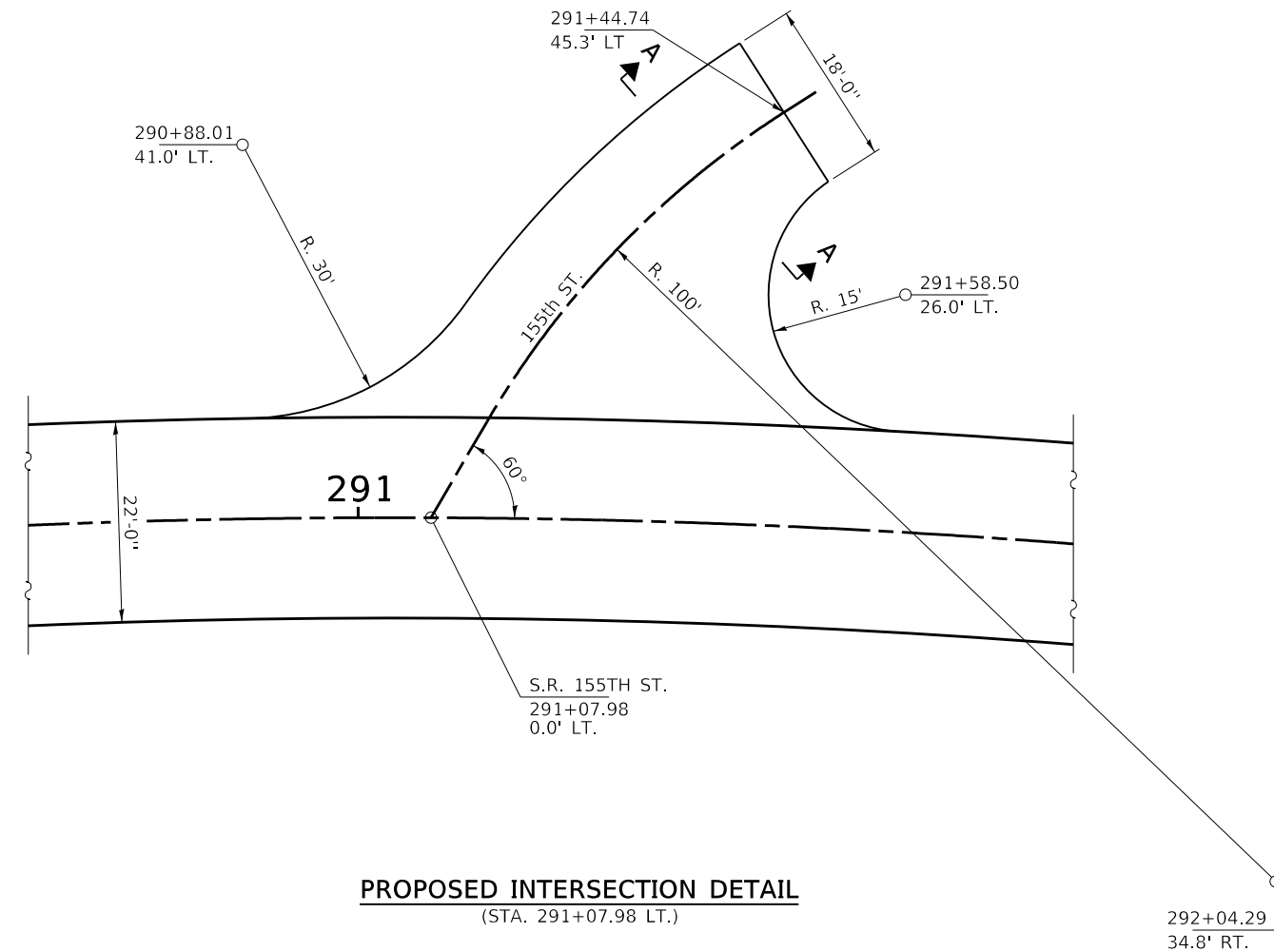
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	PLOTTED	
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	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	FILE NAME	



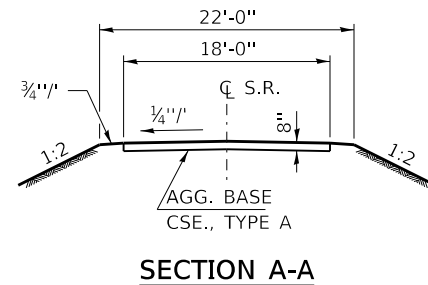
NOTE:
SEE SHEET 8 FOR SIDE ROAD DETAILS



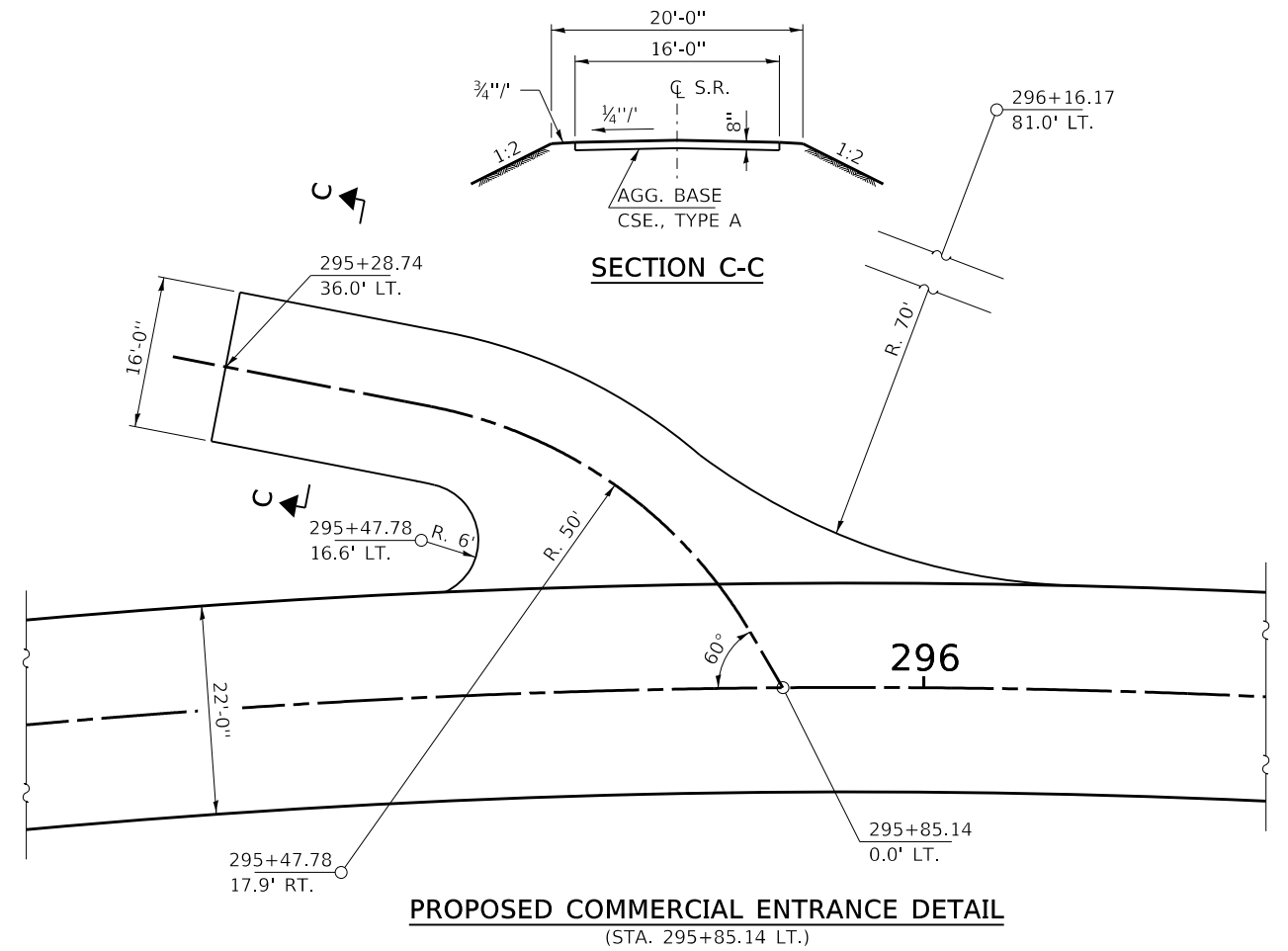
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HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - M.M.P.	REVISIONS -			410	17-00137-00-BR	WARREN	51	8
3085 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703		CHECKED - S.W.M.	REVISIONS -			PRICE BRIDGE	CONTRACT NO. 89760			
ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000959		DATE - 03/02/2022	REVISIONS -			SCALE: 20H:5V	SHEET NO. 2 OF 2 SHEETS	STA. 294+00.00 TO STA. 299+00.00	ILLINOIS FED. AID PROJECT 09N(138)	



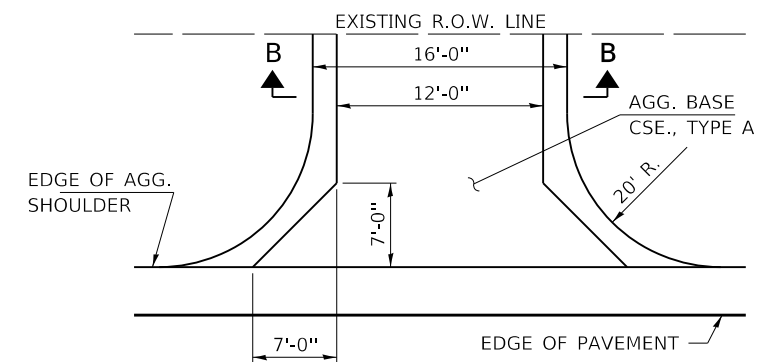
PROPOSED INTERSECTION DETAIL
(STA. 291+07.98 LT.)



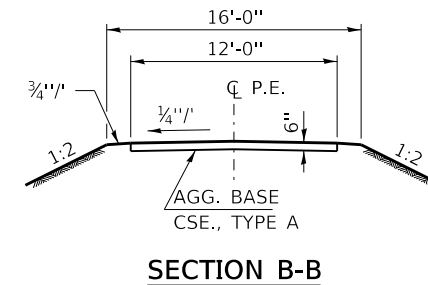
SECTION A-A



PROPOSED COMMERCIAL ENTRANCE DETAIL
(STA. 295+85.14 LT.)



PRIVATE ENTRANCE DETAIL
RT. STA. 298+48



SECTION B-B

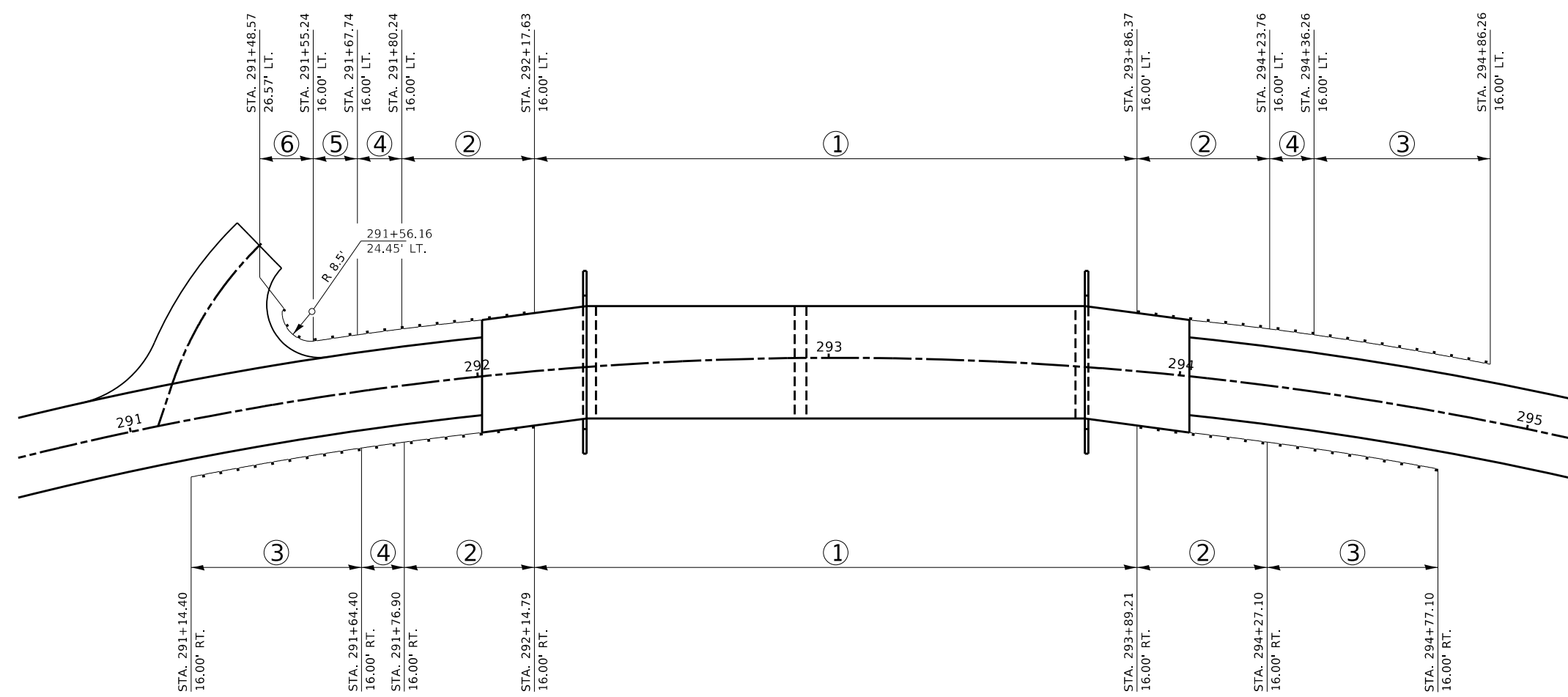
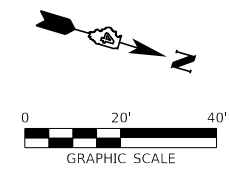
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HAMPTON, LENZINI AND RENWICK, INC. 3088 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.009959	PLOT SCALE = \$SCALE\$	DRAWN - R.D.H.	REVISED -
PLOT DATE = 3/2/2022	DATE = 03/02/2022	CHECKED - S.W.M.	REVISED -
		DATE = 03/02/2022	REVISED -

**STATE OF ILLINOIS
WARREN COUNTY HIGHWAY DEPARTMENT**

INTERSECTION & ENTRANCE DETAILS

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

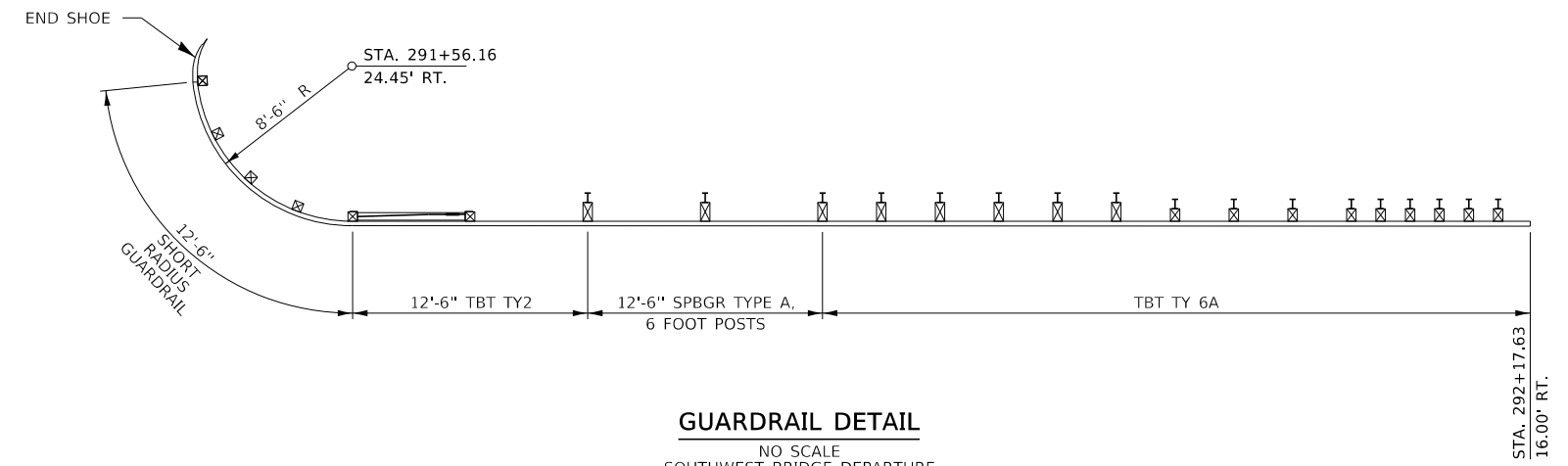
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
410	17-00137-00-BR	WARREN	51	9
PRICE BRIDGE		CONTRACT NO. 89760		
ILLINOIS FED. AID PROJECT 0N#138				



GUARDRAIL LAYOUT

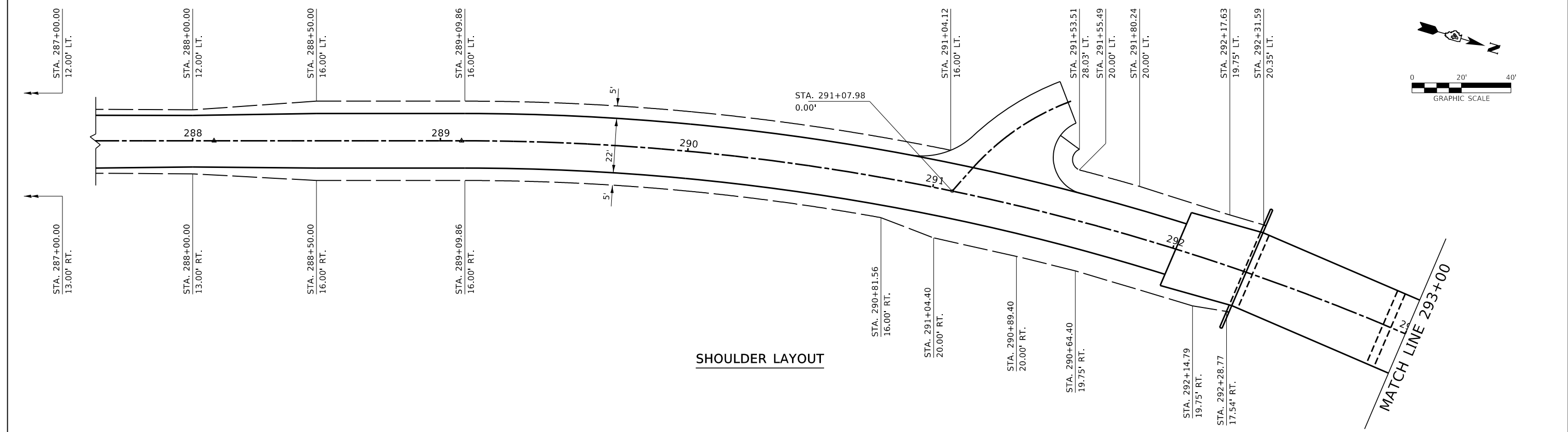
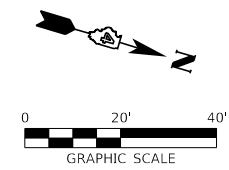
- NOTES:
1. CONSTRUCT TBT TY2 ACCORDING TO STANDARD 631011.
 2. FOR THE 8'-6" RADIUS, THE RAIL IS NOT BOLTED TO THE POST LOCATED AT THE MIDPOINT OF THE CURVE.
 3. THE END SHE SHALL BE CONSTRUCTED AT THE TERMINI OF THE SHORT RADIUS GUARDRAIL INSTEAD OF THE TYPE 2.
 4. SEE SHEET 13 OF 23 FOR END OF BRIDGE RAIL TREATMENTS.
 5. SEE GUARDRAIL SCHEDULE ON SHEET 3 OF 23.

- ① STEEL RAILING, TYPE SM
- ② TBT TY 6A
- ③ TBT TY 1, SPECIAL TANGENT
- ④ SPBGR, 6 FOOT POSTS
- ⑤ TBT TY 2
- ⑥ SPBGR (SHORT RADIUS)

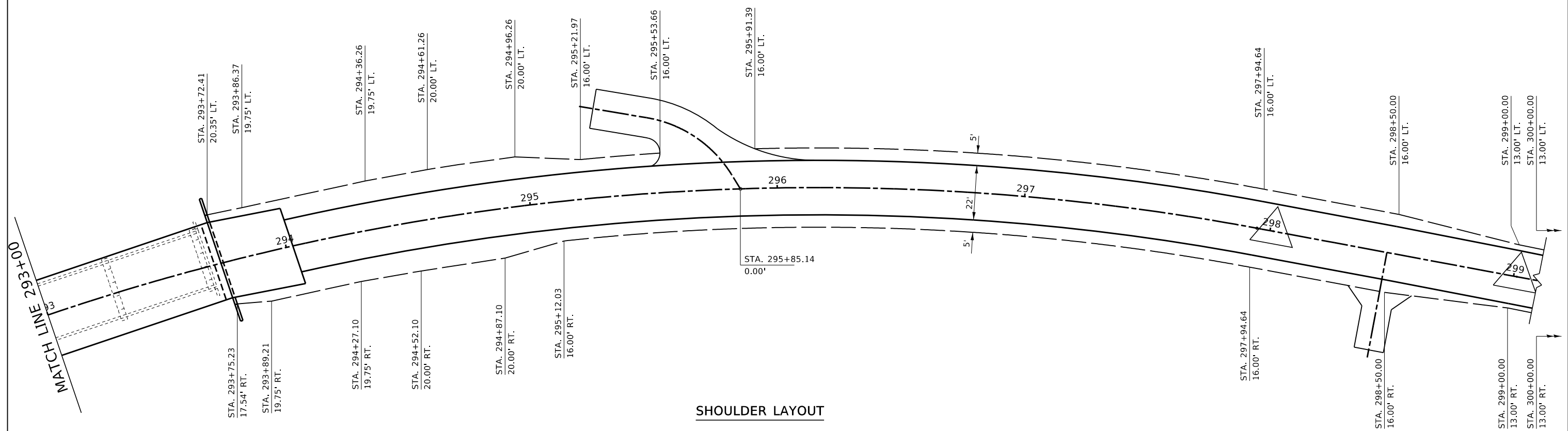


GUARDRAIL DETAIL
NO SCALE
SOUTHWEST BRIDGE DEPARTURE

FILE NAME = 180027-shi-shdgrad.dgn	USER NAME = rmosick	DESIGNED - J.W.F.	REVISED -	STATE OF ILLINOIS WARREN COUNTY HIGHWAY DEPARTMENT	GUARDRAIL LAYOUT		F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
					DRAWN - R.D.H.	REVISED -	410	17-00137-00-BR	WARREN	51	10
					CHECKED - S.W.M.	REVISED -	PRICE BRIDGE		CONTRACT NO. 89760		
3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S./P.E./S.E. CORP. 184.000959					DATE - 03/02/2022	REVISED -	SCALE:	SHEET NO. 1 OF 2 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT 0N#138



SHOULDER LAYOUT



SHOULDER LAYOUT

FILE NAME = 180027-shi-shd.dgn	USER NAME = rmosck	DESIGNED - J.W.F.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62763 ILLINOIS PROFESSIONAL DESIGN FIRM L3 / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALES	DRAWN - R.D.H.	REVISED -
	PLOT DATE = 3/2/2022	CHECKED - S.W.M.	REVISED -
		DATE - 03/02/2022	REVISED -

**STATE OF ILLINOIS
WARREN COUNTY HIGHWAY DEPARTMENT**

SHOULDER LAYOUT	
SCALE:	TO STA.
SHEET NO. 2	OF 2 SHEETS

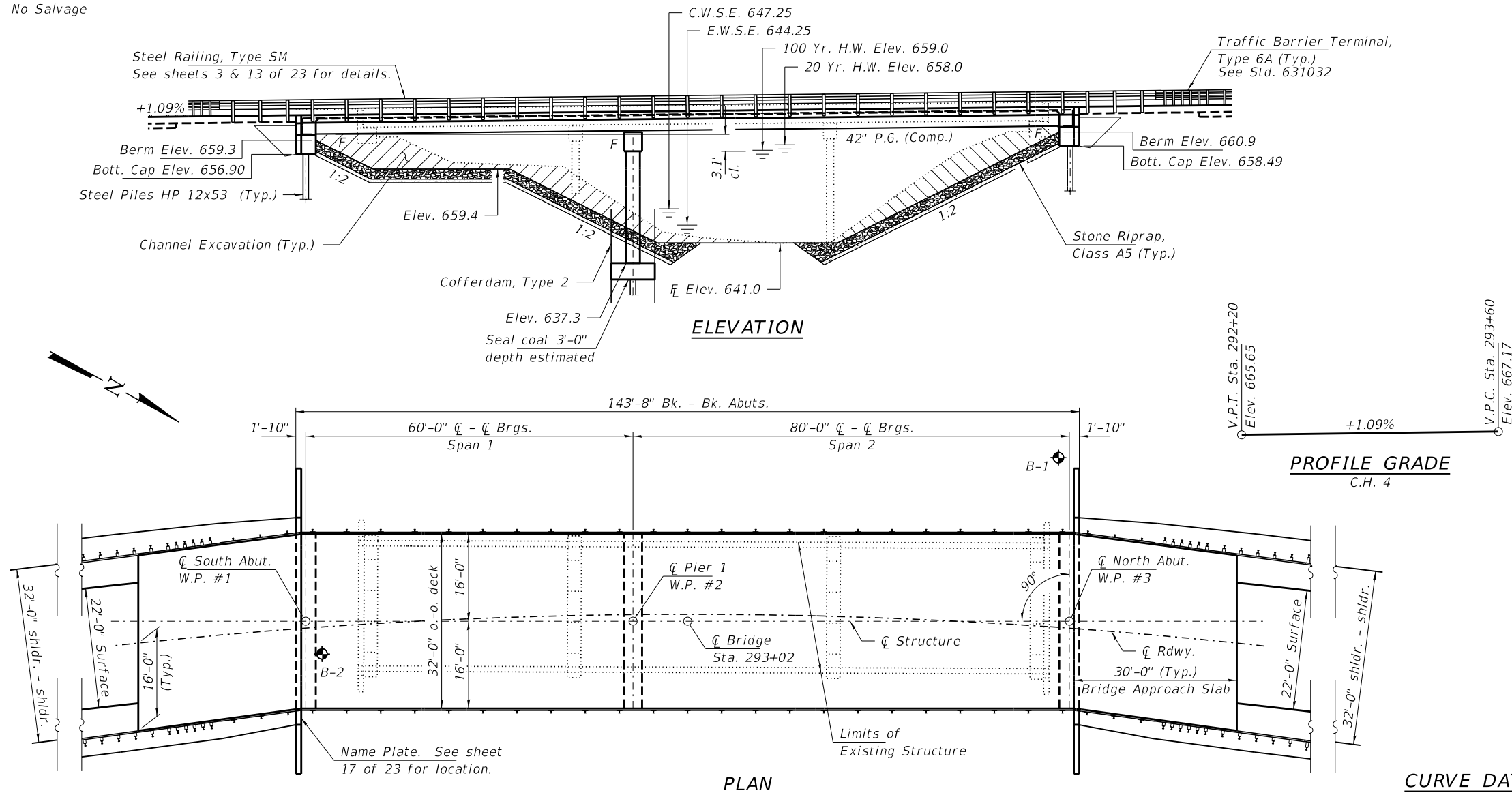
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
410	17-00137-00-BR	WARREN	51	11
PRICE BRIDGE		CONTRACT NO. 89760		
ILLINOIS FED. AID PROJECT 0N#(138)				

BENCHMARK: Chiseled "X" on N.W. wing, 15' Lt., Sta. 293+67, Elev. 667.78

EXISTING STRUCTURE: S.N. 094-3009, Sta. 293+05, Three span Steel Girder bridge on pile bent abutments and pile bent piers with concrete slope walls. 126.7' bk.-bk. abuts.; 24.0' o.-o. deck.

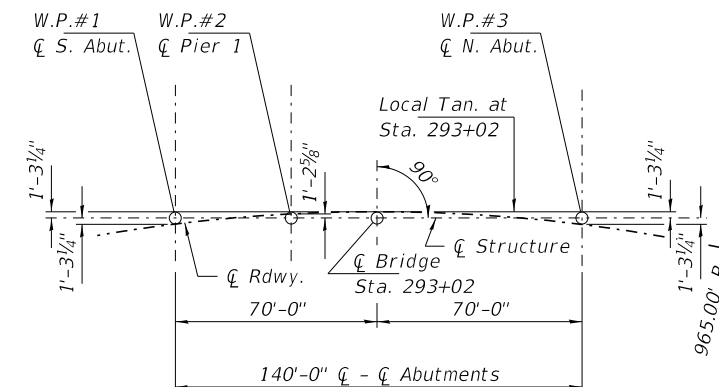
Structure closed to traffic during construction.

No Salvage

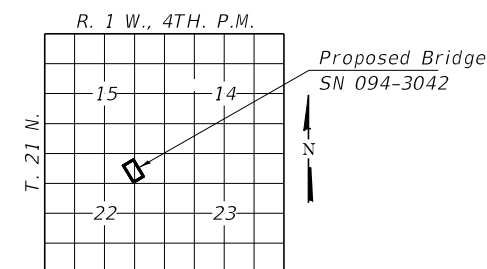


INDEX OF STRUCTURE SHEETS

1. General Plan & Elevation
2. Riprap Layout
3. General Details
- 4-6. Top of Slab Elevations
7. Top of South Approach Slab Elevations
8. Top of North Approach Slab Elevations
9. Superstructure
10. Superstructure Details
- 11-12. Bridge Approach Slab Details
13. Steel Railing, Type SM
14. Structural Steel
- 15-16. Structural Steel Details
17. South Abutment
18. North Abutment
19. Abutment Details
20. Pier
21. Steel HP Pile Details
- 22-23. Borings



OFFSET SKETCH



LOCATION SKETCH

PROFILE GRADE
C.H. 4

PLAN

CURVE DATA

PI Sta. 293+85.81
 $\Delta = 52^\circ 31' 58''$ (RT)
 $D = 5^\circ 56' 15''$
 $T = 476.23'$
 $R = 965.00'$
 $L = 884.78'$
 $E = 111.11'$
 PC Sta. 289+09.86
 PT Sta. 297+94.64
 $S.E. = 6.0\%$
 S.E. TRANS:
 STA. 288+08 TO STA. 289+51
 STA. 297+54 TO STA. 298+97

DESIGN SCOUR ELEVATION TABLE

Event/Limit State	Design Scour Elevations (ft.)			Item
	S. Abut.	Pier	N. Abut.	
Q100	657.0	628.4	658.5	113
Q200	657.0	625.9	658.5	
Design	657.0	638.0	658.5	
Check	657.0	638.0	658.5	

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition.

LOADING HL-93

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

DESIGN STRESSES

$f'_c = 5,000$ psi (Super)
 $f'_c = 3,500$ psi (Sub)
 $f_y = 60,000$ psi (Reinf.)
 $f_y = 50,000$ psi (Structural Steel M270 GR. 50W)

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
 Design Spectral Acceleration at 1.0 sec. (S_{D1}) = 0.112g
 Design Spectral Acceleration at 0.2 sec. (S_{D5}) = 0.115g
 Soil Site Class = D

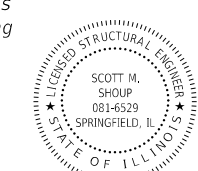
WATERWAY INFORMATION

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. Head - Ft.		Headwater El.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Ten Year	10	5750	810	1,080	657.4	0.5	0.5	657.9	657.8
Design	20	7140	870	1,160	658.0	0.7	0.6	658.7	658.6
Base	100	10,400	950	1,270	659.0	1.9	1.5	660.9	660.5
Scour Check	200	11,950	990	1,320	659.3	2.5	2.0	661.8	661.3
Max Calc	500	14,000	1,030	1,380	659.8	3.3	2.8	663.1	662.9

Existing Low Grade Elev. 663.8 at Sta. 289+50
 Proposed Low Grade Elev. 663.8 at Sta. 289+50
 10 Year Velocity through Existing Bridge = 7.5 fps 10 Year Velocity through Proposed Bridge = 5.3 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."

Scott M. Shoup 03/02/2022
 ILLINOIS STRUCTURAL NO. 081-6529 Expires 11-30-2022

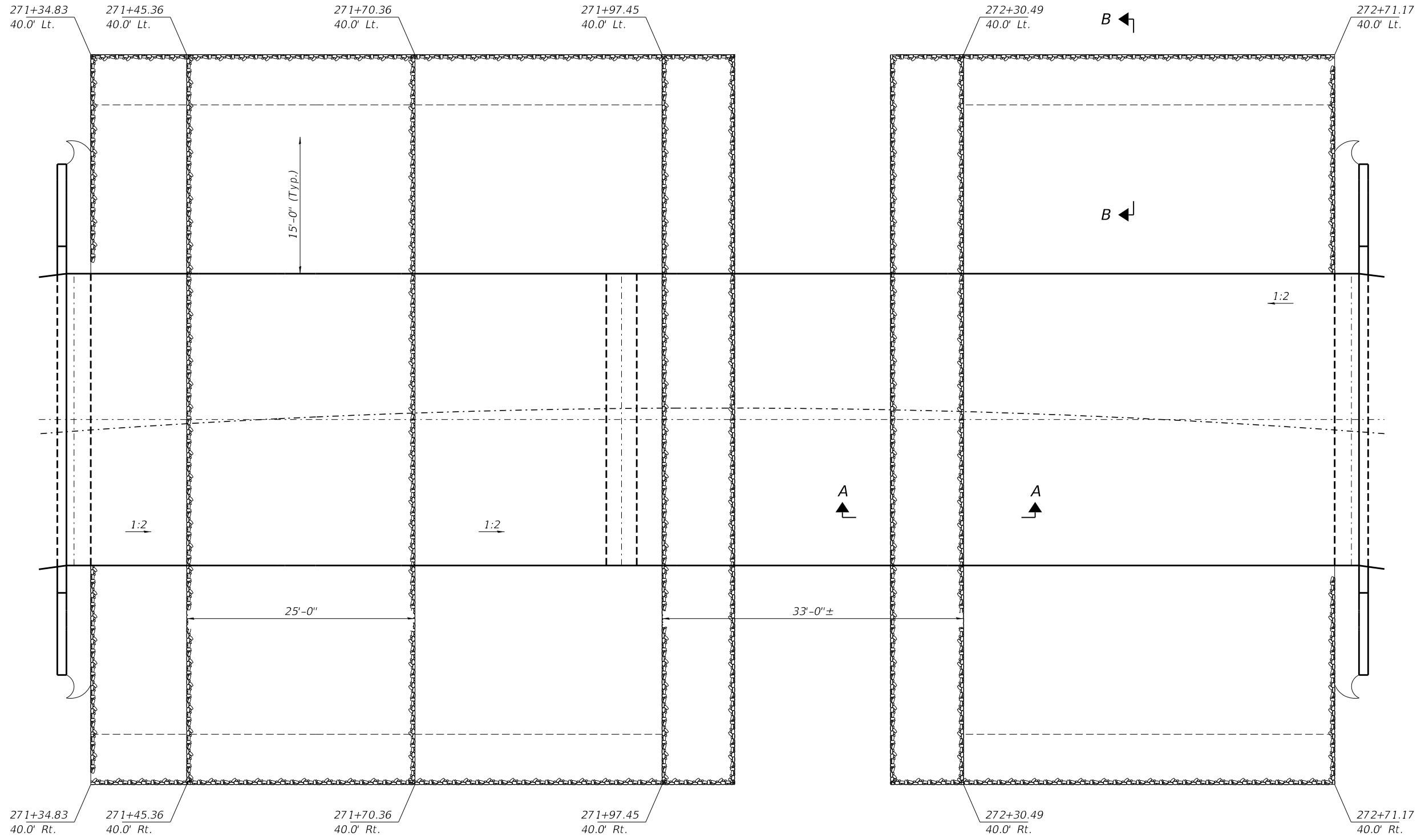


HENDERSON CREEK
 BUILT 202_
 WARREN COUNTY
 SECTION 17-00137-00-BR
 C.H. 4 / F.A.S. 410
 STR. NO. 094-3042
 LOADING HL-93

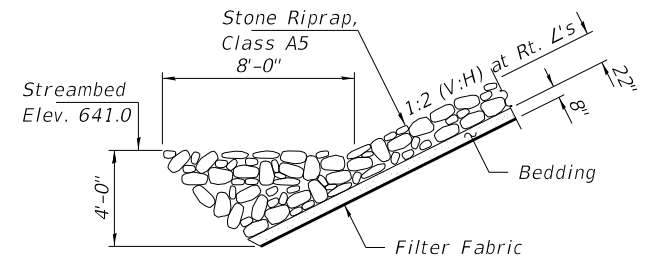
NAME PLATE
See Std. 515001

GENERAL PLAN & ELEVATION
C.H. 4 / 155TH ST.
OVER HENDERSON CREEK
SECTION 17-00137-00-BR
WARREN COUNTY
STATION 293+02
STRUCTURE NO. 094-3042

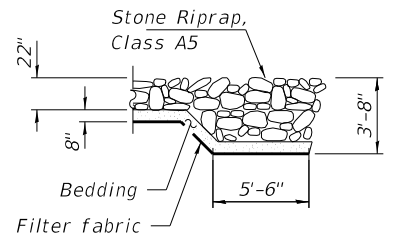
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HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L5 / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -			410	17-00137-00-BR	WARREN	51	12	
PLOT DATE = 3/2/2022	DRAWN - R.D.H.	REVISOR - S.M.S.	REVISED -			PRICE BRIDGE	CONTRACT NO. 89760				
	CHECKED - S.M.S.	REVISED -				SHEET NO. 1 OF 23 SHEETS					



PLAN



SECTION A-A



SECTION B-B

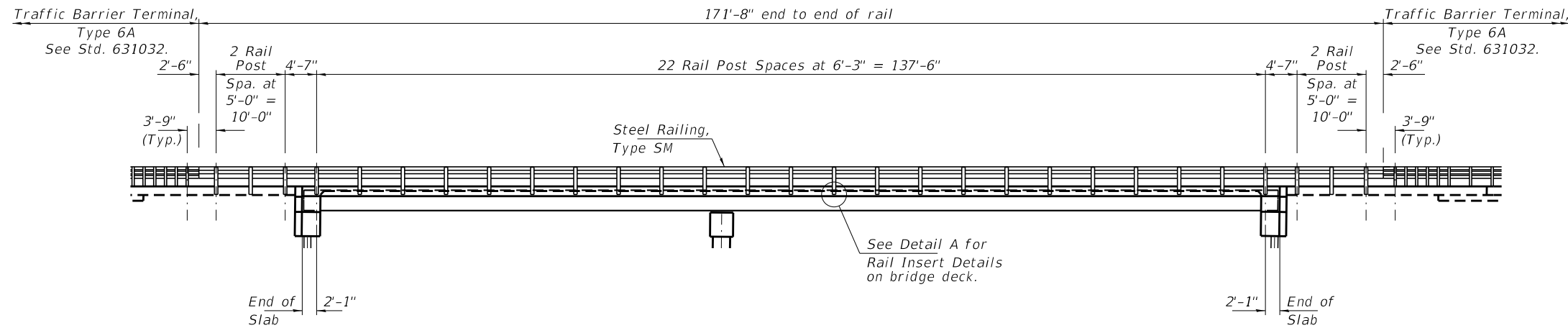
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PLOT DATE = 3/2/2022		DRAWN - R.D.H.	REVISED -
		CHECKED - S.M.S.	REVISED -

**STATE OF ILLINOIS
WARREN COUNTY HIGHWAY DEPARTMENT**

**RIPRAP LAYOUT
STRUCTURE NO. 094-3042**

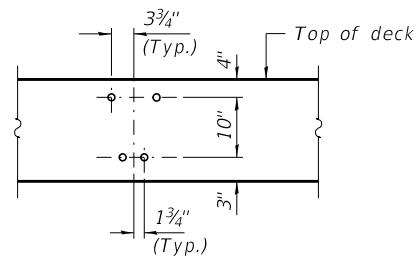
SHEET NO. 2 OF 23 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
410	17-00137-00-BR	WARREN	51	13
PRICE BRIDGE		CONTRACT NO. 89760		



RAILING ELEVATION
Showing Rail Post Spaces

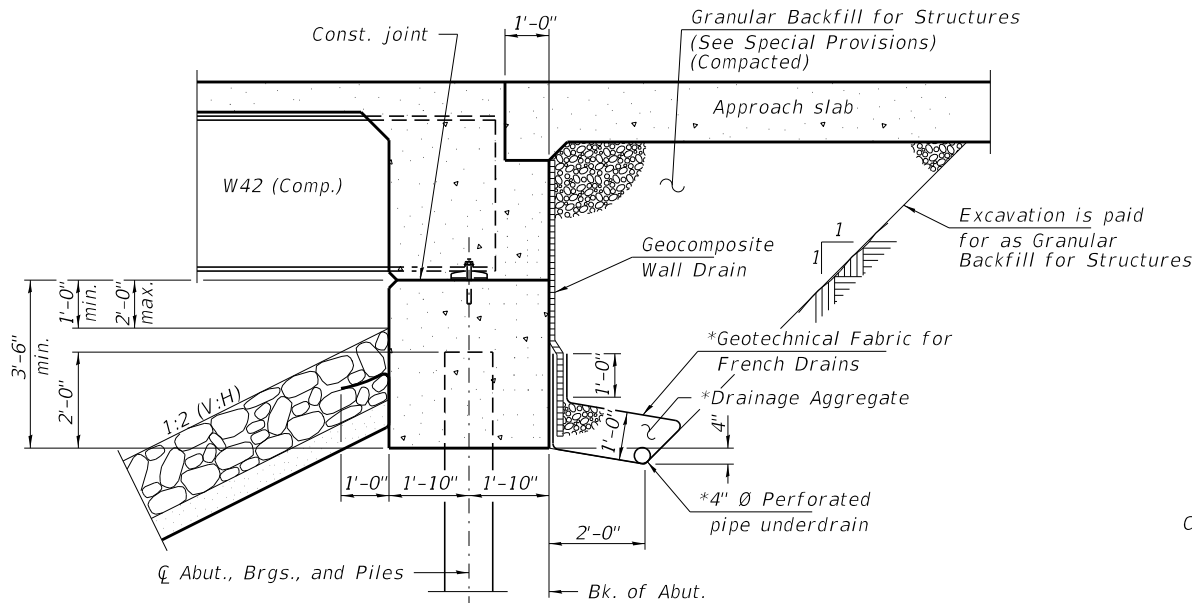
See sheet 13 of 23 for Railing Details.



DETAIL A

GENERAL NOTES

Fasteners shall be ASTM A325 Type 3 bolts. Bolts 7/8 in. Ø, holes 1 1/16 in. Ø, unless otherwise noted.
 Calculated weight of Structural Steel = 135,444 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.
 Excavation required to construct the Abutments shall be included in the cost of Concrete Structures. No additional compensation will be allowed for Structure Excavation.
 Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 inch (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.
 Structural steel shall only be painted for a 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.
 Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
 Protective Coat shall be applied to the top surface and fascia of the concrete deck, wingwalls, and approach slabs.
 Bridge Deck Grooving shall be completed on the bridge deck and Bridge Approach Slab.
 Pavement rollers shall not be allowed on bridge deck grooving.
 All construction joints shall be bonded.

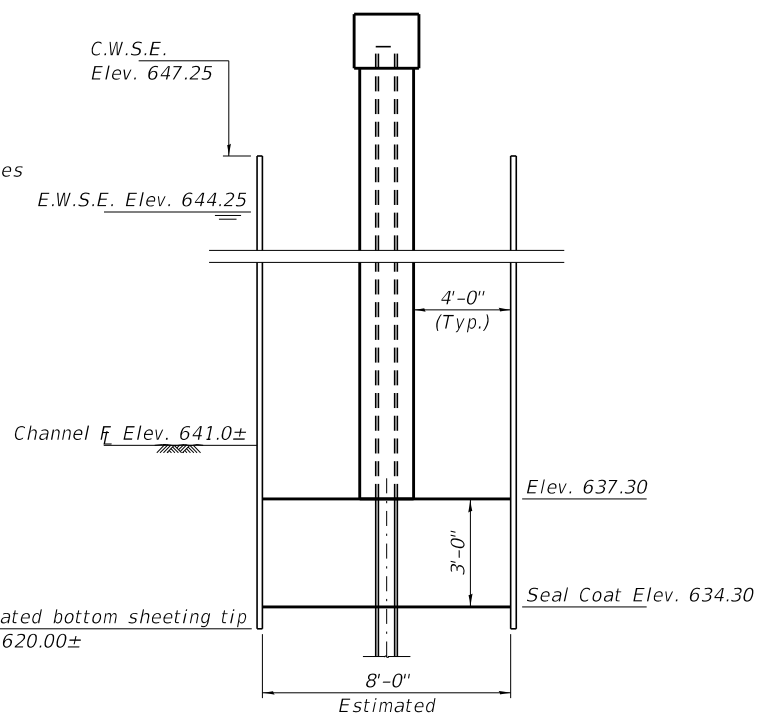


SECTION THRU INTEGRAL ABUTMENT
(Horiz. dim. at Rt. L's)

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

* Drainage Agg. shall be CA-7 or CA-11 Crushed Limestone only.

*Included in the cost of Pipe Underdrains for Structures. (See Special Provisions)



COFFERDAM DETAIL

Note:
 It is the Contractors responsibility to provide a design for the cofferdam and all other required appurtenances, subject to approval of the Engineer. Plan dimensions of cofferdam are 8'-0" x 34'-0".

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.			565
Stone Riprap, Class A5	Ton			1,300
Filter Fabric	Sq. Yd.			1,145
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.			110
Cofferdam Excavation	Cu. Yd.		50	50
Cofferdam (Type 2) (Location - 1)	Each			1
Concrete Structures	Cu. Yd.		85.3	85.3
Concrete Superstructure	Cu. Yd.	156.6		156.6
Bridge Deck Grooving	Sq. Yd.	717		717
Seal Coat Concrete	Cu. Yd.		32	32
Concrete Encasement	Cu. Yd.		15.0	15.0
Protective Coat	Sq. Yd.	994	46	1,040
Concrete Superstructure (Approach Slab)	Cu. Yd.	90.0		90.0
Furnishing and Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	3,120		3,120
Reinforcement Bars, Epoxy Coated	Pound	66,940	15,580	82,520
Steel Railing, Type SM	Foot	344		344
Furnishing Steel Piles HP12x53	Foot		845	845
Driving Piles	Foot		845	845
Test Pile Steel HP12x53	Each		2	2
Name Plates	Each		1	1
Anchor Bolts, 1"	Each		30	30
Granular Backfill for Structures	Ton			276
Geocomposite Wall Drain	Sq. Yd.			72
Concrete Headwalls for Pipe Drains	Each			4
Pipe Underdrains for Structures 4"	Foot			148

FILE NAME = 180027-shi-bridge.dgn	USER NAME = lsmth	DESIGNED - P.R.R.	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 = \$SCALE\$	CHECKED - S.W.M.	REVISED -
	PLOT DATE = 5/6/2022	DRAWN - R.D.H.	REVISED -
		CHECKED - S.M.S.	REVISED -

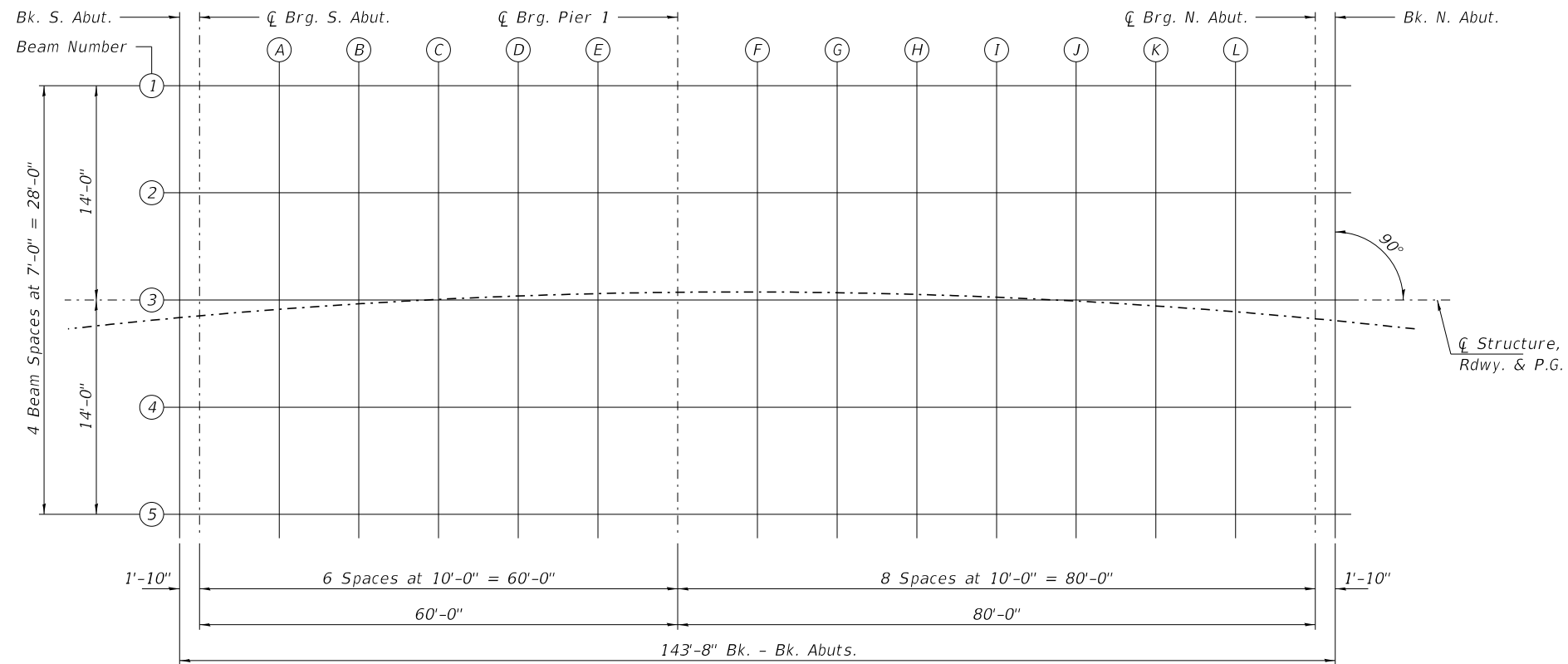
STATE OF ILLINOIS
 WARREN COUNTY HIGHWAY DEPARTMENT

GENERAL DETAILS
 STRUCTURE NO. 094-3042

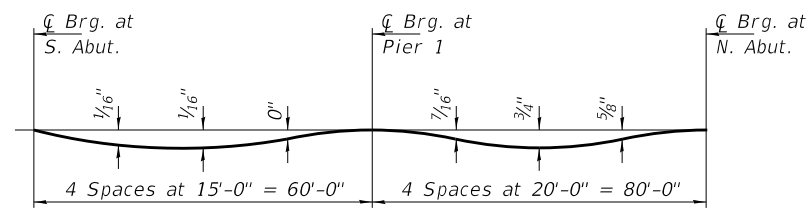
SHEET NO. 3 OF 23 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
410	17-00137-00-BR	WARREN	51	14
PRICE BRIDGE		CONTRACT NO. 89760		

ILLINOIS FED. AID PROJECT 094(138)



PLAN

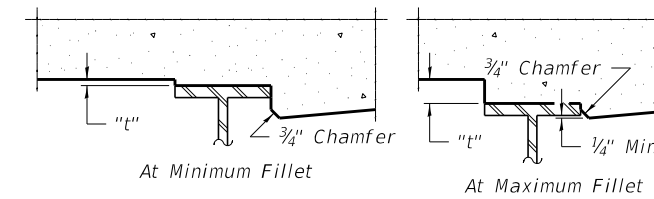


DEAD LOAD DEFLECTION DIAGRAM

(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 sheets 5 & 6 of 23.



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 sheets 5 & 6 of 23, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS

FILE NAME = 180027-shi-bridge.dgn	USER NAME = rthosick	DESIGNED - P.R.R.	REVISED -	STATE OF ILLINOIS WARREN COUNTY HIGHWAY DEPARTMENT	TOP OF SLAB ELEVATIONS STRUCTURE NO. 094-3042	F.A.S.	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	CHECKED - S.W.M.	REVISED -	410			17-00137-00-BR	WARREN	51	15	
PLOT SCALE = \$SCALE\$	DRAWN - R.D.H.	REVISED -	PRICE BRIDGE			CONTRACT NO. 89760				
PLOT DATE = 3/2/2022	CHECKED - S.M.S.	REVISED -	SHEET NO. 4 OF 23 SHEETS			ILLINOIS FED. AID PROJECT 094(138)				

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	292+31.23	-15.36	666.69	666.69
☒ Brg. S. Abut.	292+33.03	-15.23	666.71	666.71
A	292+42.86	-14.57	666.77	666.78
B	292+52.69	-14.01	666.85	666.86
C	292+62.54	-13.55	666.93	666.93
D	292+72.40	-13.19	667.01	667.01
E	292+82.26	-12.93	667.10	667.10
☒ Pier 1	292+92.13	-12.78	667.20	667.20
F	293+02.00	-12.73	667.31	667.32
G	293+11.87	-12.78	667.42	667.45
H	293+21.74	-12.93	667.53	667.59
I	293+31.60	-13.19	667.66	667.72
J	293+41.46	-13.55	667.79	667.85
K	293+51.31	-14.01	667.92	667.97
L	293+61.14	-14.57	668.06	668.09
☒ Brg. N. Abut.	293+70.97	-15.23	668.21	668.21
Bk. N. Abut.	293+72.77	-15.36	668.24	668.24

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	292+30.72	-8.38	666.27	666.27
☒ Brg. S. Abut.	292+32.53	-8.25	666.28	666.28
A	292+42.43	-7.58	666.35	666.35
B	292+52.34	-7.02	666.42	666.43
C	292+62.26	-6.55	666.50	666.51
D	292+72.19	-6.19	666.59	666.59
E	292+82.12	-5.94	666.68	666.68
☒ Pier 1	292+92.06	-5.78	666.78	666.78
F	293+02.00	-5.73	666.89	666.91
G	293+11.94	-5.78	667.00	667.04
H	293+21.88	-5.94	667.12	667.17
I	293+31.81	-6.19	667.24	667.30
J	293+41.74	-6.55	667.37	667.43
K	293+51.66	-7.02	667.51	667.56
L	293+61.57	-7.58	667.65	667.68
☒ Brg. N. Abut.	293+71.47	-8.25	667.80	667.80
Bk. N. Abut.	293+73.28	-8.38	667.82	667.82

BEAM 3, ☒ STRUCTURE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	292+30.20	-1.40	665.85	665.85
☒ Brg. S. Abut.	292+32.03	-1.27	665.86	665.86
A	292+42.00	-0.59	665.93	665.94
B	292+51.98	-0.03	666.00	666.01
C	292+61.97	0.44	666.08	666.09
D	292+71.97	0.80	666.17	666.17
E	292+81.98	1.06	666.26	666.26
☒ Pier 1	292+91.99	1.22	666.36	666.36
F	293+02.00	1.27	666.47	666.49
G	293+12.01	1.22	666.58	666.62
H	293+22.02	1.06	666.70	666.75
I	293+32.03	0.80	666.82	666.88
J	293+42.03	0.44	666.95	667.01
K	293+52.02	-0.03	667.09	667.14
L	293+62.00	-0.59	667.23	667.26
☒ Brg. N. Abut.	293+71.97	-1.27	667.38	667.38
Bk. N. Abut.	293+73.80	-1.40	667.41	667.41

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	292+29.68	5.58	665.42	665.42
☒ Brg. S. Abut.	292+31.52	5.71	665.43	665.43
A	292+41.56	6.39	665.50	665.51
B	292+51.61	6.97	665.58	665.59
C	292+61.68	7.44	665.66	665.67
D	292+71.75	7.80	665.75	665.75
E	292+81.83	8.06	665.84	665.84
☒ Pier 1	292+91.91	8.22	665.94	665.94
F	293+02.00	8.27	666.05	666.07
G	293+12.09	8.22	666.16	666.20
H	293+22.17	8.06	666.28	666.33
I	293+32.25	7.80	666.41	666.47
J	293+42.32	7.44	666.54	666.60
K	293+52.39	6.97	666.68	666.73
L	293+62.44	6.39	666.82	666.85
☒ Brg. N. Abut.	293+72.48	5.71	666.97	666.97
Bk. N. Abut.	293+74.32	5.58	667.00	667.00

BEAM 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	292+29.15	12.56	665.00	665.00
☒ Brg. S. Abut.	292+31.00	12.70	665.01	665.01
A	292+41.12	13.38	665.08	665.09
B	292+51.24	13.96	665.15	665.16
C	292+61.38	14.43	665.24	665.25
D	292+71.53	14.80	665.32	665.32
E	292+81.68	15.06	665.42	665.42
☒ Pier 1	292+91.84	15.22	665.52	665.52
F	293+02.00	15.27	665.63	665.65
G	293+12.16	15.22	665.74	665.78
H	293+22.32	15.06	665.86	665.91
I	293+32.47	14.80	665.99	666.05
J	293+42.62	14.43	666.12	666.18
K	293+52.76	13.96	666.26	666.31
L	293+62.88	13.38	666.40	666.43
☒ Brg. N. Abut.	293+73.00	12.70	666.56	666.56
Bk. N. Abut.	293+74.85	12.56	666.58	666.58

WEST EDGE OF SHOULDER

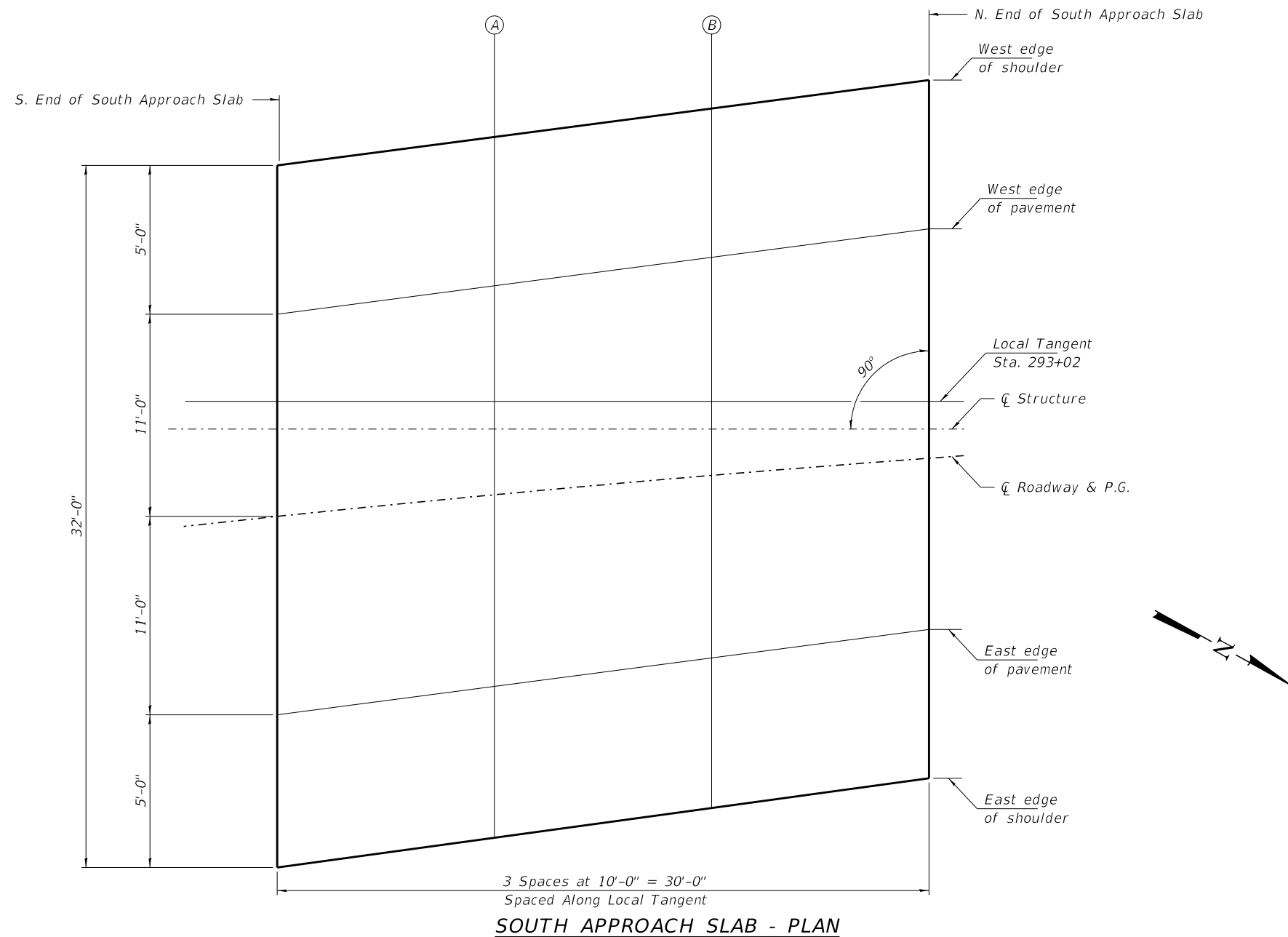
Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	292+02.89	-15.91	666.35
A	292+12.84	-16.27	666.47
B	292+22.66	-16.73	666.61
N. End South Appr. Slab	292+32.35	-17.29	666.74

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	292+02.38	-10.94	666.04
A	292+12.36	-11.30	666.17
B	292+22.24	-11.75	666.30
N. End South Appr. Slab	292+32.00	-12.30	666.44

CL PROPOSED ROADWAY & P.G.

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	292+01.25	0.00	665.38
A	292+11.30	-0.34	665.50
B	292+21.29	-0.79	665.63
N. End South Appr. Slab	292+31.20	-1.33	665.77



EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	292+00.09	10.94	664.71
A	292+10.22	10.61	664.83
B	292+20.32	10.18	664.97
N. End South Appr. Slab	292+30.39	9.64	665.11

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	291+99.55	15.91	664.41
A	292+09.71	15.59	664.53
B	292+19.87	15.16	664.66
N. End South Appr. Slab	292+30.01	14.63	664.80

FILE NAME = 180027-shi-bridge.dgn	USER NAME = rthosick	DESIGNED - P.R.R.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - S.W.M.	REVISED -
	PLOT SCALE = \$SCALE\$	DRAWN - R.D.H.	REVISED -
	PLOT DATE = 3/2/2022	CHECKED - S.M.S.	REVISED -

**STATE OF ILLINOIS
WARREN COUNTY HIGHWAY DEPARTMENT**

**TOP OF SOUTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 094-3042**

SHEET NO. 7 OF 23 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
410	17-00137-00-BR	WARREN	51	18
PRICE BRIDGE		CONTRACT NO. 89760		
ILLINOIS		FED. AID PROJECT 094(138)		

WEST EDGE OF SHOULDER

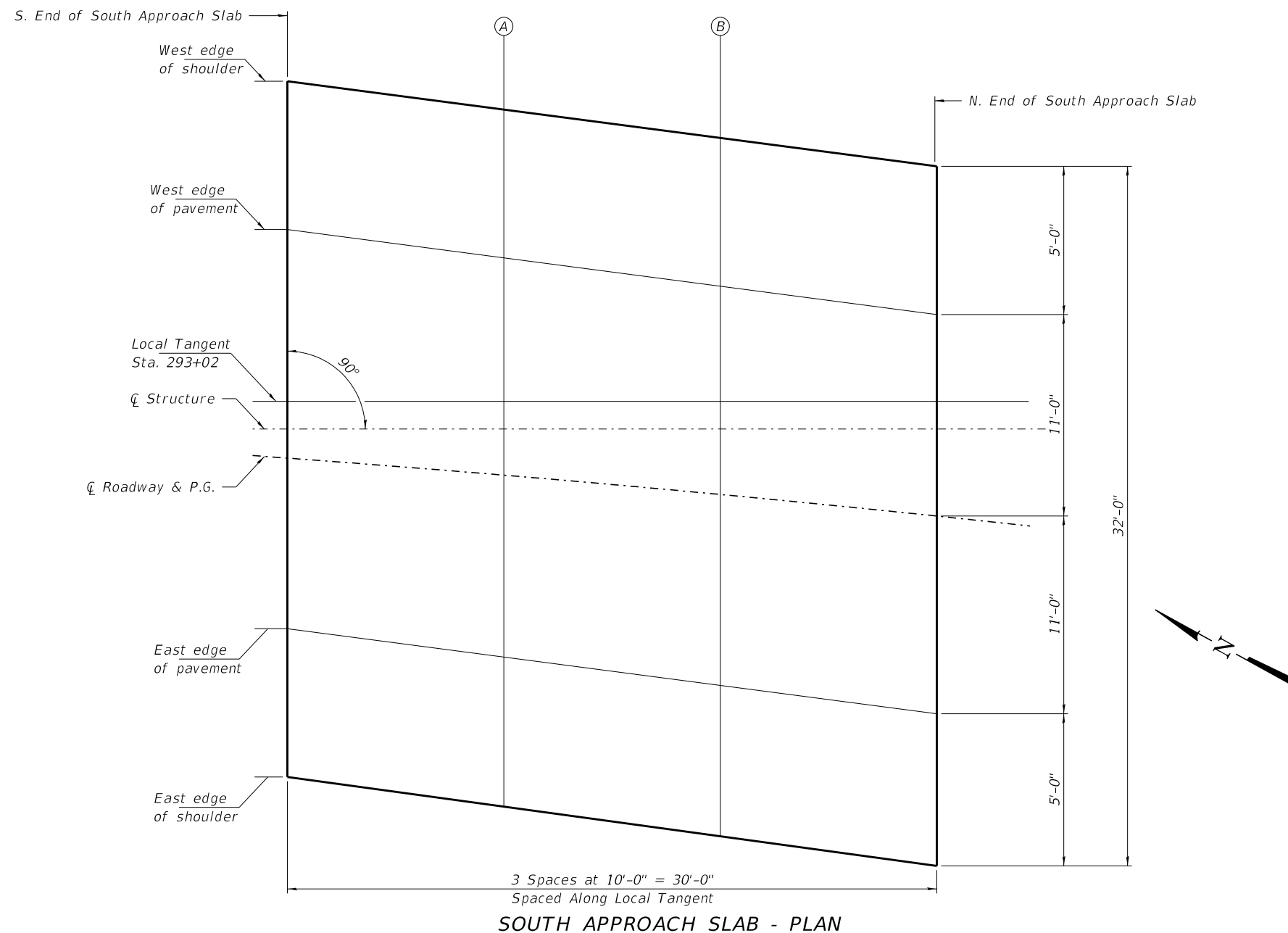
Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	293+71.65	-17.29	668.35
A	293+81.46	-16.73	668.45
B	293+91.28	-16.27	668.57
N. End South Appr. Slab	294+01.11	-15.91	668.72

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	293+72.00	-12.30	668.05
A	293+81.86	-11.74	668.15
B	293+91.74	-11.29	668.28
N. End South Appr. Slab	294+01.62	-10.94	668.43

Q PROPOSED ROADWAY & P.G.

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	293+72.80	-1.33	667.40
A	293+82.77	-0.76	667.51
B	293+92.76	-0.30	667.64
N. End South Appr. Slab	294+02.76	0.06	667.99



EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	293+73.61	9.64	666.76
A	293+83.70	10.18	666.87
B	293+93.80	10.61	667.00
N. End South Appr. Slab	294+03.91	10.94	667.16

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	293+73.99	14.63	666.46
A	293+84.13	15.16	666.57
B	293+94.28	15.59	666.71
N. End South Appr. Slab	294+04.45	15.91	666.87

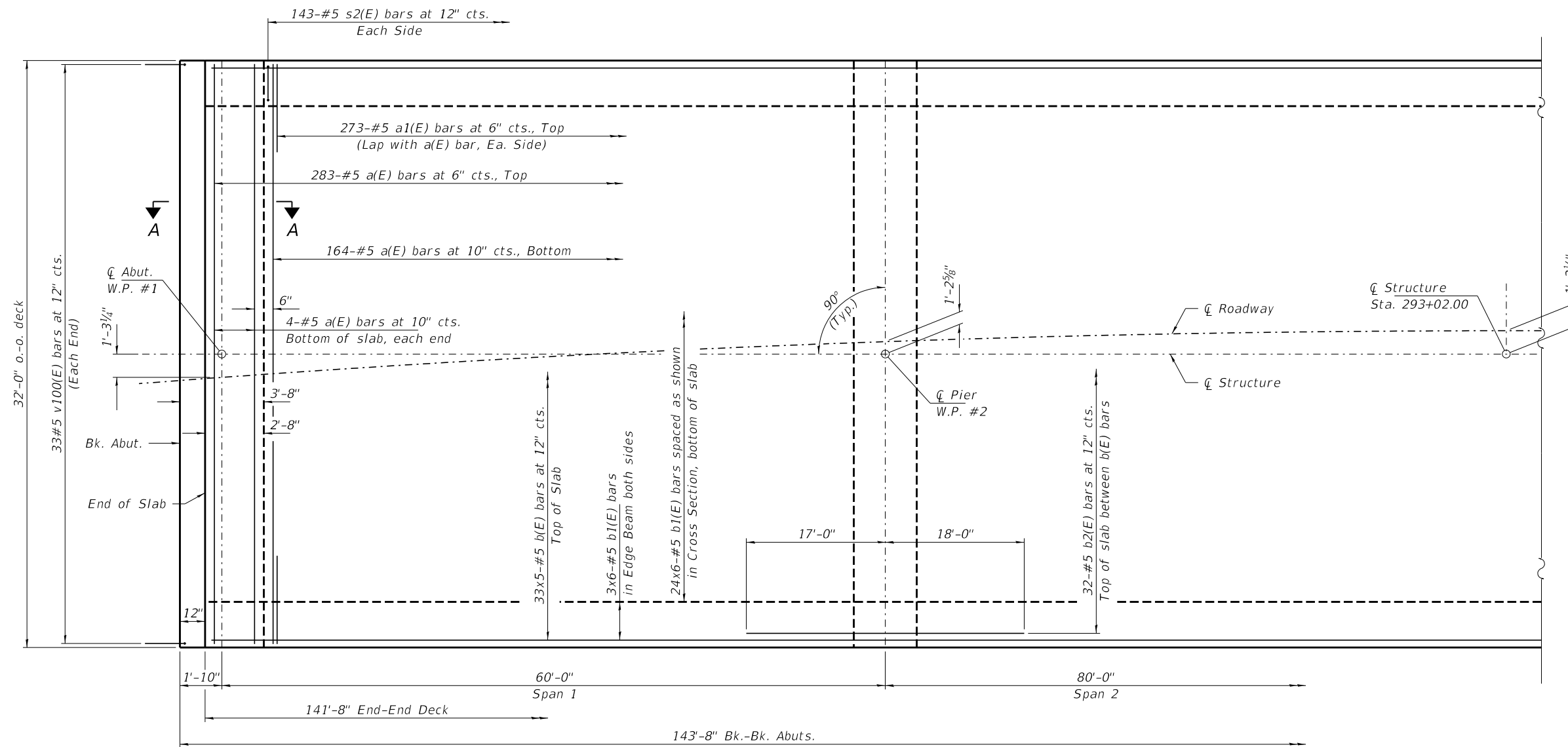
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HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959		CHECKED - S.W.M.	REVISED -
	PLOT SCALE = \$SCALE\$	DRAWN - R.D.H.	REVISED -
	PLOT DATE = 3/2/2022	CHECKED - S.M.S.	REVISED -

**STATE OF ILLINOIS
WARREN COUNTY HIGHWAY DEPARTMENT**

**TOP OF NORTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 094-3042**

SHEET NO. 8 OF 23 SHEETS

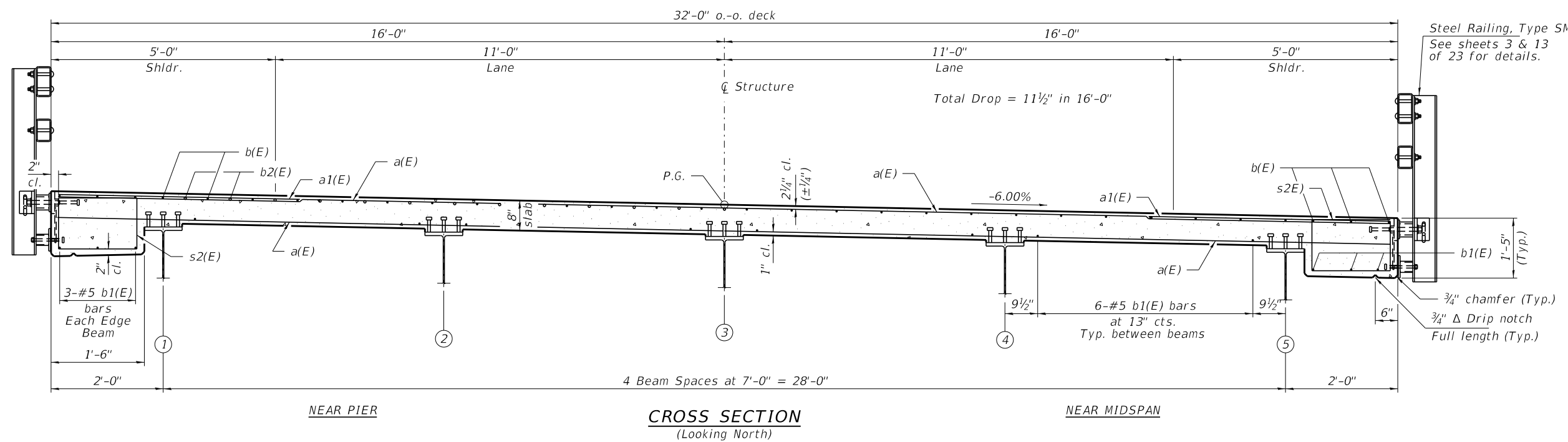
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
410	17-00137-00-BR	WARREN	51	19
PRICE BRIDGE		CONTRACT NO. 89760		
		ILLINOIS FED. AID PROJECT 094(138)		



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

Notes:
See sheet 10 of 23 for superstructure details.
Bars indicated thus 30x6-#5 etc. indicates 30 lines of bars with 6 lengths per line.
For Section A-A see sheet 10 of 13.

PLAN



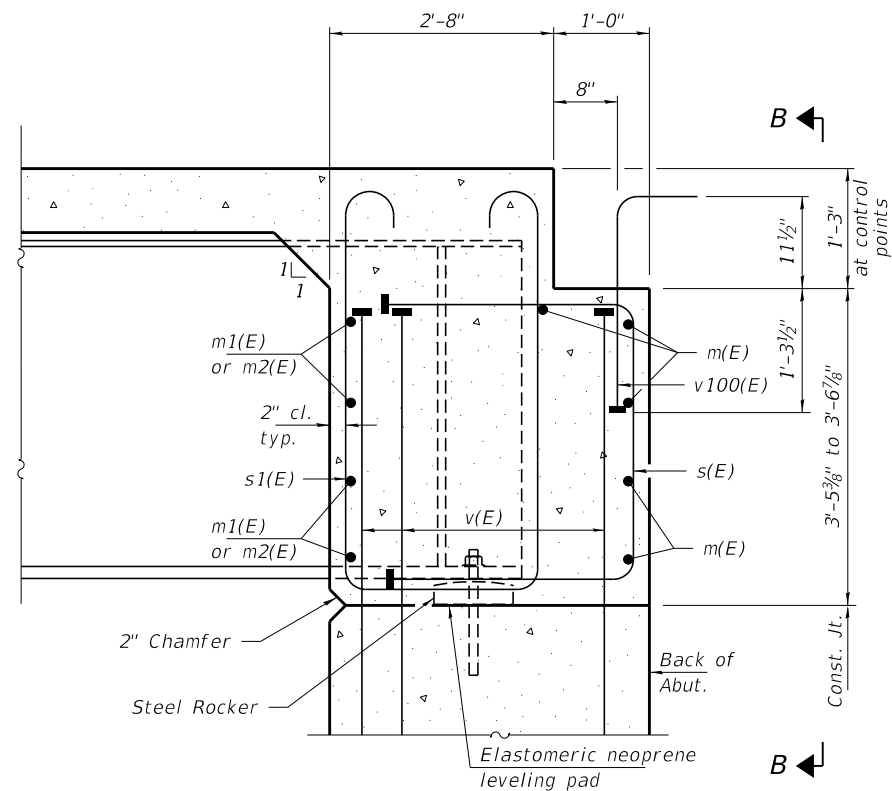
**SUPERSTRUCTURE
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape	
a(E)	455	#5	31'-8"	—	
a1(E)	546	#5	6'-6"	—	
b(E)	165	#5	31'-1"	—	
b1(E)	180	#5	26'-6"	—	
b2(E)	32	#5	35'-0"	—	
m(E)	10	#6	31'-8"	—	
m1(E)	32	#6	6'-8"	—	
m2(E)	16	#6	1'-8"	—	
s(E)	56	#5	8'-1"	□	
s1(E)	56	#5	12'-2"	□	
s2(E)	286	#5	5'-3"	□	
v100(E)	66	#5	3'-1"	┌	
Concrete Superstructure				Cu. Yd.	156.6
Bridge Deck Grooving				Sq. Yd.	504
Protective Coat				Sq. Yd.	771
Reinforcement Bars, Epoxy Coated				Pound	34,020

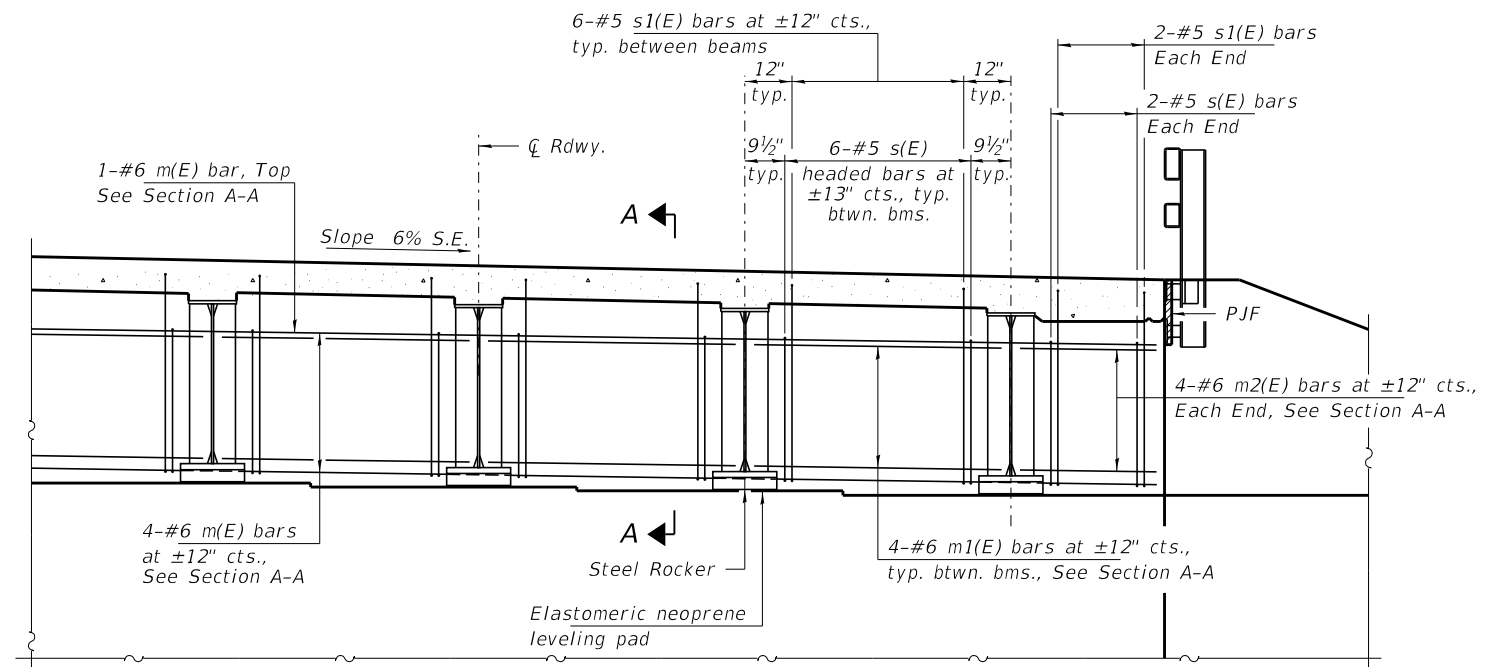
NEAR PIER

**CROSS SECTION
(Looking North)**

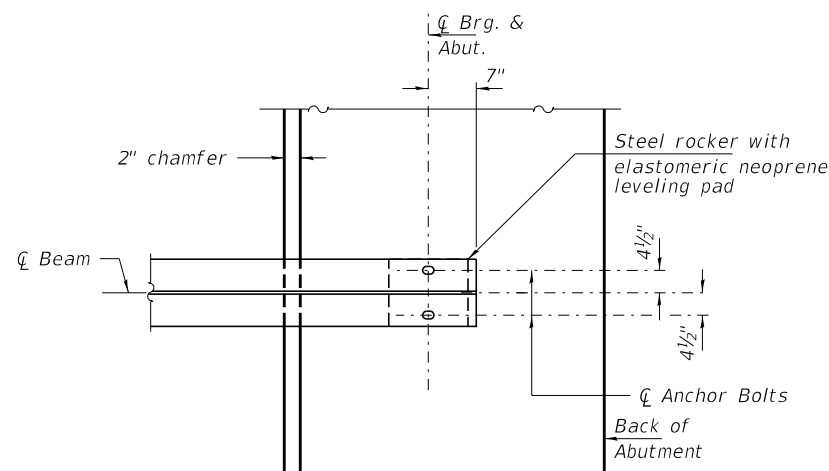
NEAR MIDSPAN



SECTION A-A

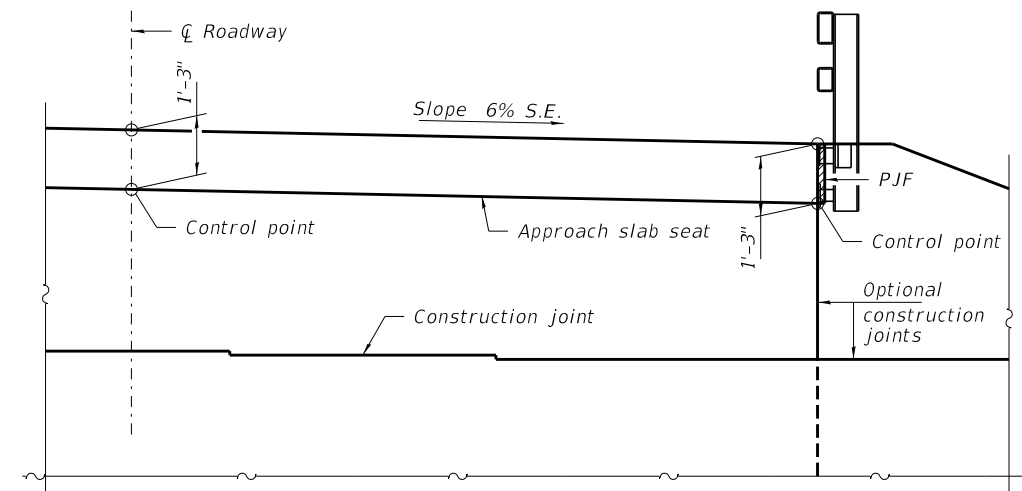


DIAPHRAGM AT ABUTMENT

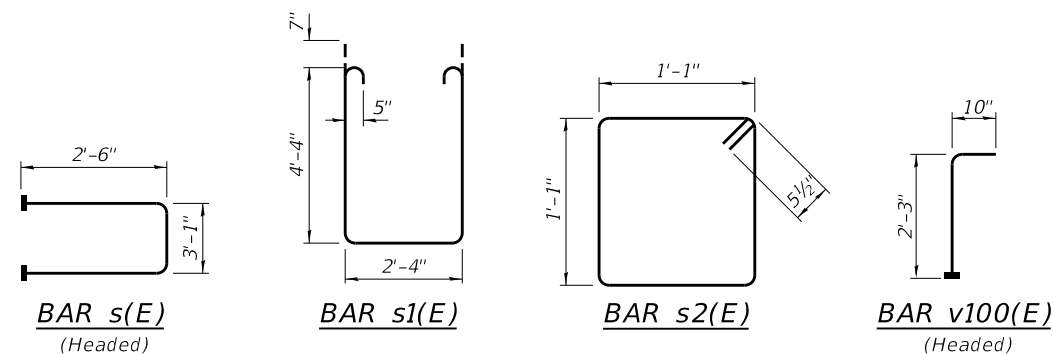


PARTIAL PLAN AT ABUTMENT
(Showing bottom flange of beam)

Notes:
 Reinforcement bars in diaphragm are billed with Superstructure on sheet 9 of 23.
 Concrete in diaphragm is included with Concrete Superstructure on sheet 9 of 23.
 The s(E) bars shall be placed parallel to the beams.
 Spacing for these bars shall be at right angles to the beams.



VIEW B-B



FILE NAME = 180027-shi-bridge.dgn	USER NAME = rthosck	DESIGNED - P.R.R.	REVISED -
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S./P.E./S.E. CORP. 184.000959	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -
PLOT DATE = 3/2/2022		DRAWN - R.D.H.	REVISED -
		CHECKED - S.M.S.	REVISED -

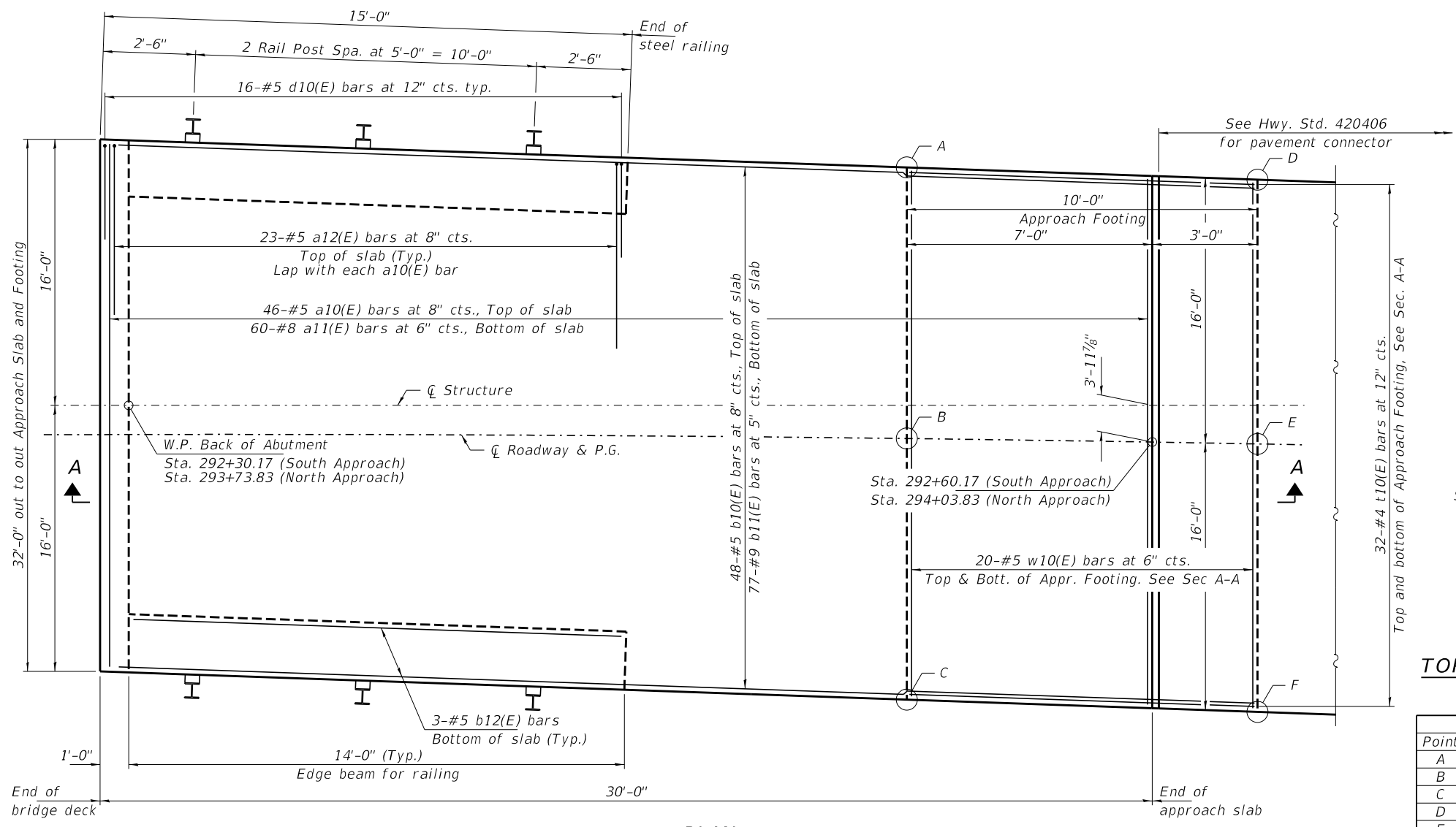
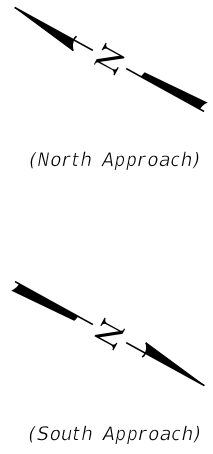
STATE OF ILLINOIS
 WARREN COUNTY HIGHWAY DEPARTMENT

SUPERSTRUCTURE DETAILS
 STRUCTURE NO. 094-3042

SHEET NO. 10 OF 23 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
410	17-00137-00-BR	WARREN	51	21
PRICE BRIDGE		CONTRACT NO. 89760		

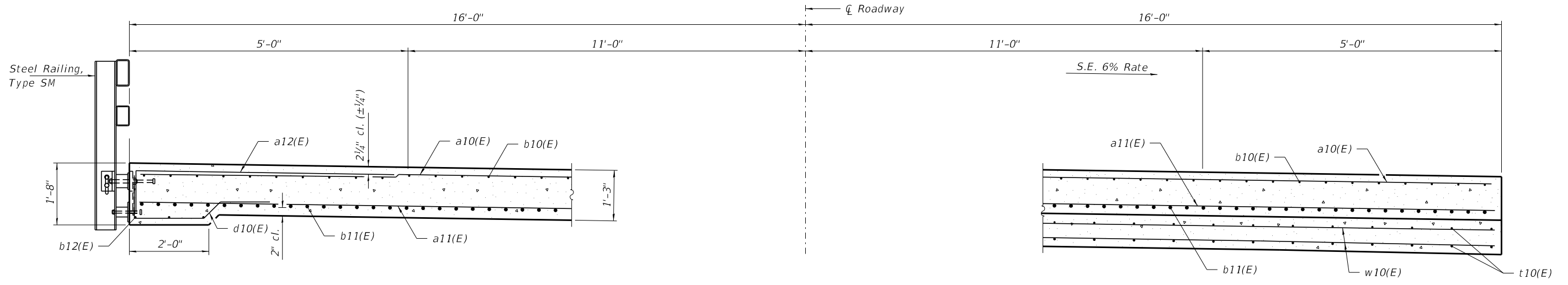
ILLINOIS FED. AID PROJECT 094(138)



PLAN

TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING

Point	South Approach		North Approach	
	Top	Bottom	Top	Bottom
A	665.24	664.40	667.36	666.53
B	664.26	663.43	666.44	665.60
C	663.29	662.46	665.51	664.67
D	665.12	664.28	667.52	666.69
E	664.15	663.31	666.60	665.76
F	663.17	662.34	665.68	664.84

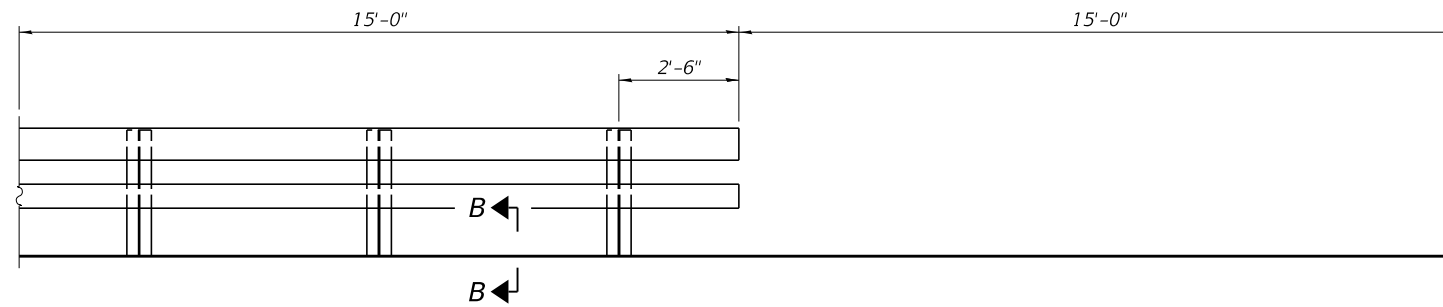


CROSS SECTION (Looking North)

BAIA-CIP-R34-0 6-15-2019

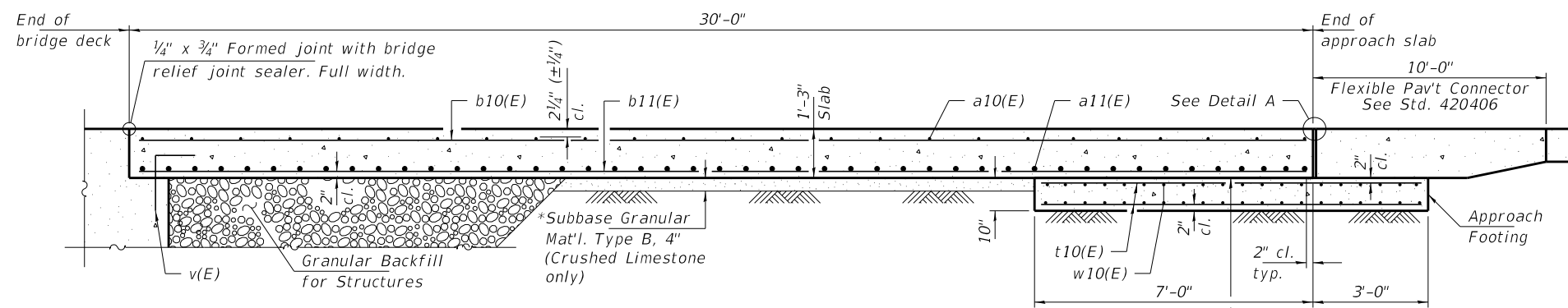
(Sheet 1 of 2)

FILE NAME = 180027-shl-bridge.dgn	USER NAME = rthosck	DESIGNED - P.R.R.	REVISED -	STATE OF ILLINOIS WARREN COUNTY HIGHWAY DEPARTMENT	BRIDGE APPROACH SLAB DETAILS STRUCTURE NO. 094-3042	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S./P.E./S.E. CORP. 184.000959	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -			410	17-00137-00-BR	WARREN	51	22	
	PLOT DATE = 3/2/2022	DRAWN - R.D.H.	REVISED -			PRICE BRIDGE	CONTRACT NO. 89760				
		CHECKED - S.M.S.	REVISED -			SHEET NO. 11 OF 23 SHEETS					



INSIDE ELEVATION OF RAILING

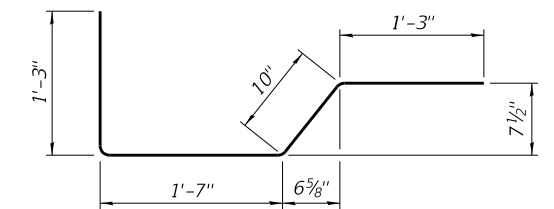
Notes:
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
 Approach footing concrete shall be paid for as Concrete Structures.
 The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
 Cost of excavation for approach footing included with Concrete Structures.
 For Granular Backfill for Structures and drainage treatment details, see sheet 3 of 23.
 For railing details, see sheets 3 & 13 of 23.
 Approach footing reinforcement bars are separated in the "TOTAL BILL OF MATERIALS" on sheet 3 of 23 and included with the "SUB" total.



SECTION A-A

* 10 mil. Polyethylene bond breaker on steel trowel finish

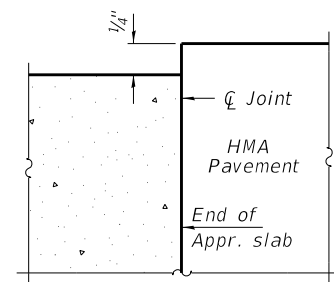
* = Incidental to concrete superstructure (approach slab).



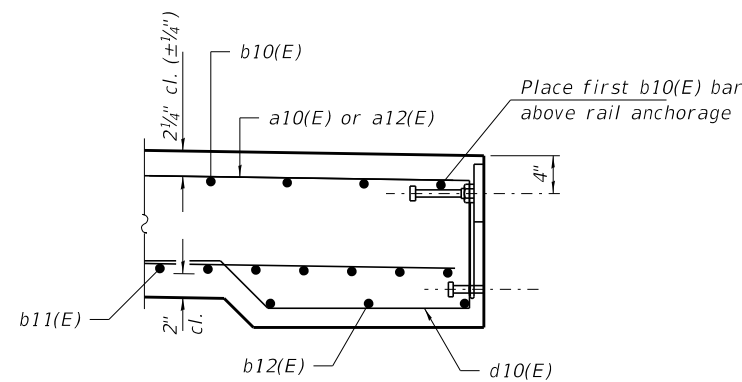
BAR d10(E)

**TWO APPROACHES
 BILL OF MATERIAL -
 SUPERSTRUCTURE**

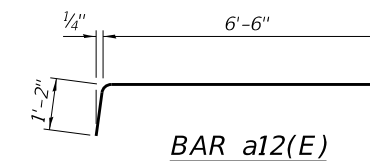
Bar	No.	Size	Length	Shape
a10(E)	92	#5	31'-8"	—
a11(E)	120	#8	31'-8"	—
a12(E)	92	#5	7'-8"	—
b10(E)	96	#5	29'-8"	—
b11(E)	154	#9	29'-8"	—
b12(E)	12	#5	13'-8"	—
d10(E)	64	#5	4'-11"	U
Bridge Deck Grooving		Sq. Yd.	213	
Protective Coat		Sq. Yd.	223	
Concrete Superstructure (Approach Slab)		Cu. Yd.	90.0	
Reinforcement Bars, Epoxy Coated		Pound	32,920	



DETAIL A



SECTION B-B



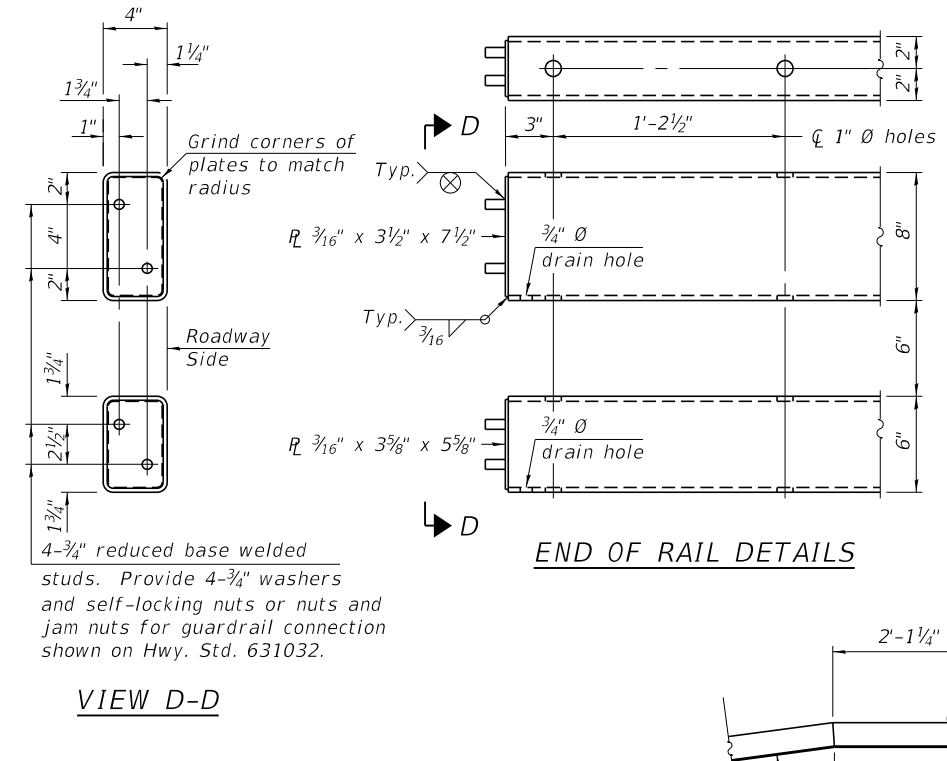
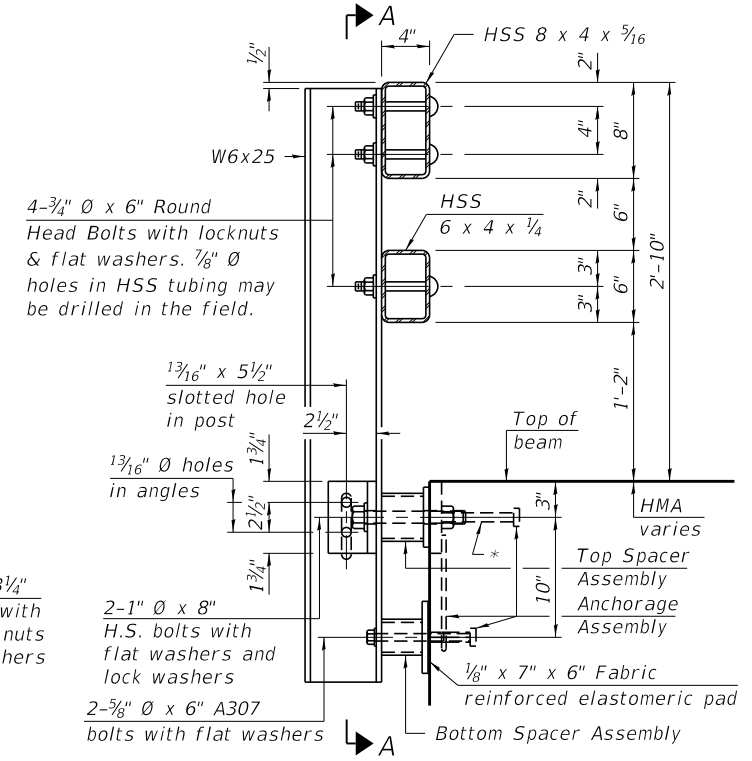
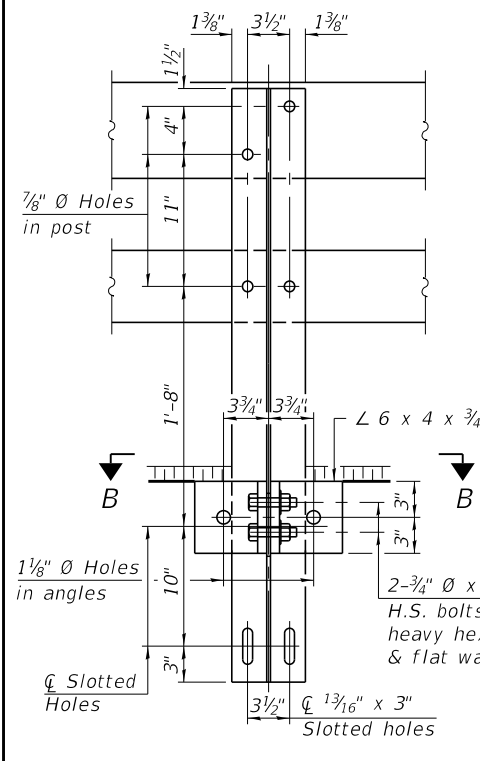
BAR a12(E)

**TWO APPROACHES
 BILL OF MATERIAL -
 SUBSTRUCTURE**

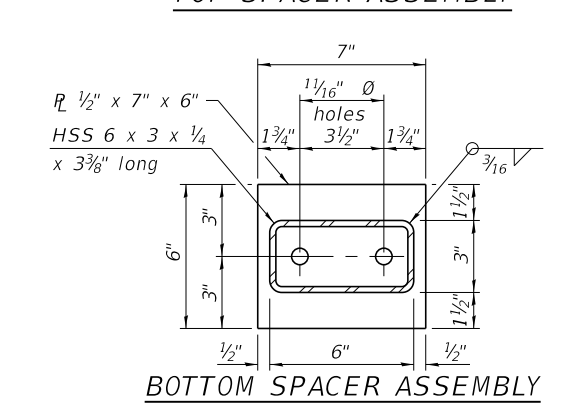
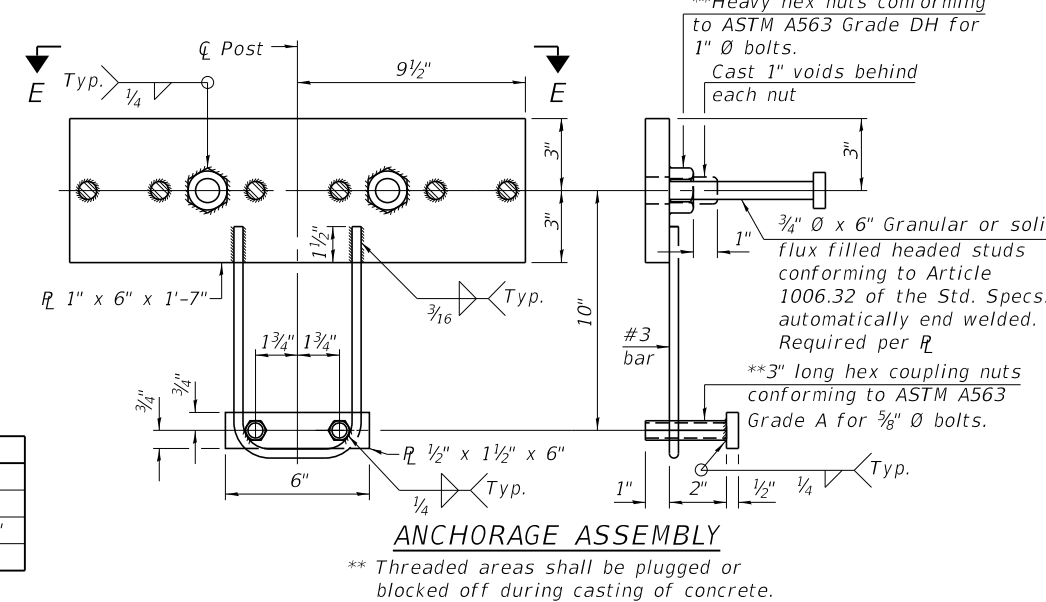
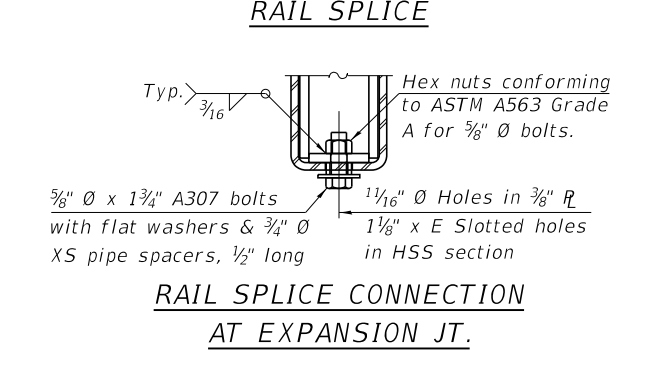
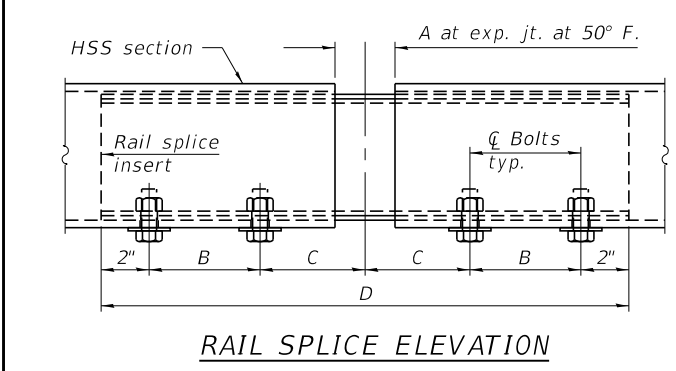
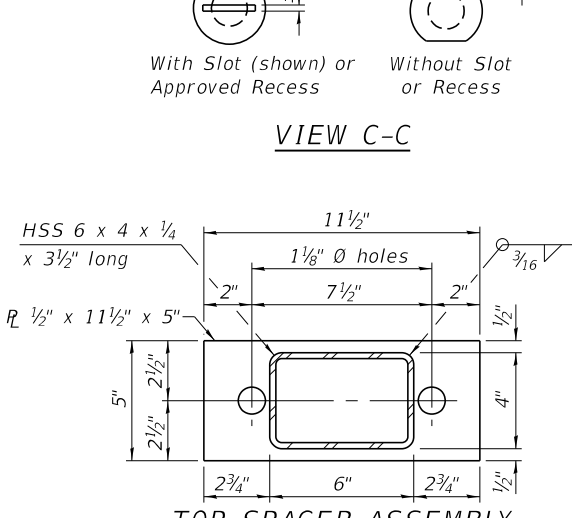
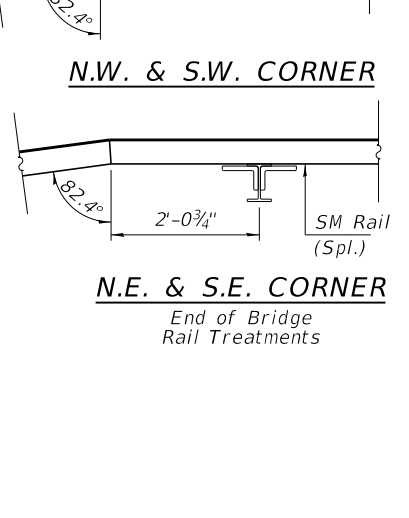
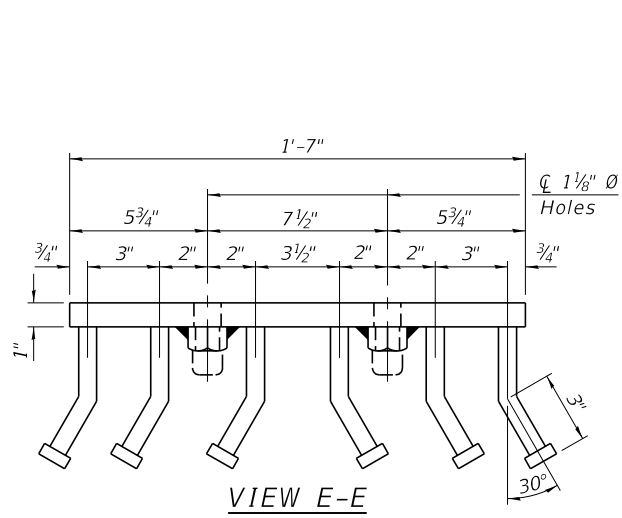
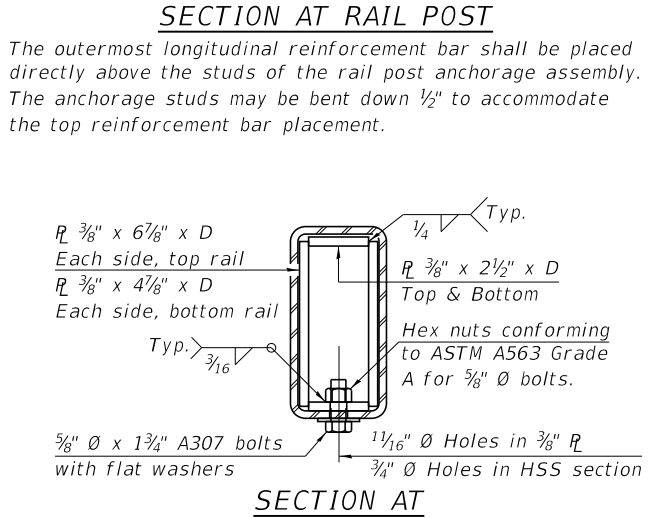
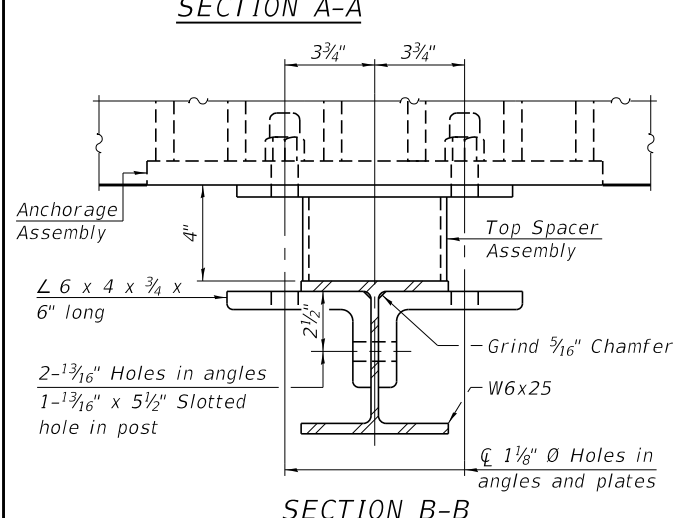
Bar	No.	Size	Length	Shape
t10(E)	128	#4	9'-8"	—
w10(E)	80	#5	31'-8"	—
Concrete Structures		Cu. Yd.	19.8	
Reinforcement Bars, Epoxy Coated		Pound	3,470	

BAIA-CIP-R34-0 6-15-2019

(Sheet 2 of 2)



Notes:
 A sufficient number of shims of various thicknesses, sized to fit behind the top spacer assembly, 5" x 11 1/2", and bottom spacer assembly, 6" x 7", shall be provided to adjust posts for proper alignment. If the summation of shims is greater than 1/4" (top) or 1/2" (bottom), longer bolts are required. Cost included with Steel Railing, Type SM.
 All steel rail elements including shims shall be galvanized according to Article 509.05 of the Standard Specifications.
 All HSS tubing serving as railing shall be CVN tested according to Article 1006.34(b) of the Standard Specifications.
 Rail splice inserts may be built out of 2 -3/8" bent plates in lieu of the 4 plate rail splice inserts shown, provided the outside dimensions are matched.
 All round head bolts shall be ASTM A307 with locknuts according to ASTM A563 grade A.



RAILING CRITERIA

MASH 2016 Test Level	2
Railing Weight (plf)	90
Min f'c (psi)	5,000
Max Post Spacing	6'-3"
HMA thickness range (in)	1 1/4 - 3 3/8

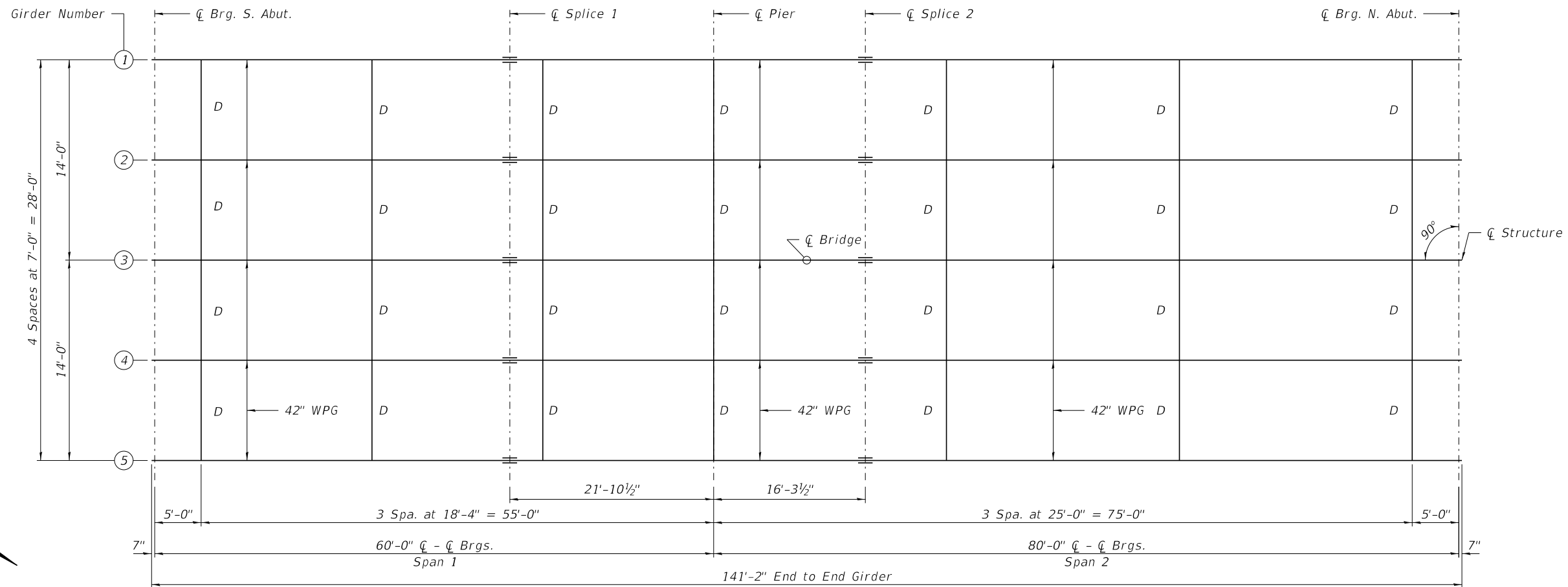
SPLICE DIMENSIONS

Location	T	A	B	C	D	E
All locs. not over exp. jts.	0	1/4"	4"	4"	1'-8"	-
Over Strip Seal Jt.	≤4"	2 1/2"	4 3/8"	4 3/8"	1'-10"	3 1/16"
Over Finger or Modular Jt.	≤9 1/2"	5 1/2"	7 3/8"	7 1/4"	2'-9 1/4"	5 1 3/16"
Over Finger or Modular Jt.	≤15"	8 1/4"	10 1/8"	10"	3'-8 1/4"	8 9/16"

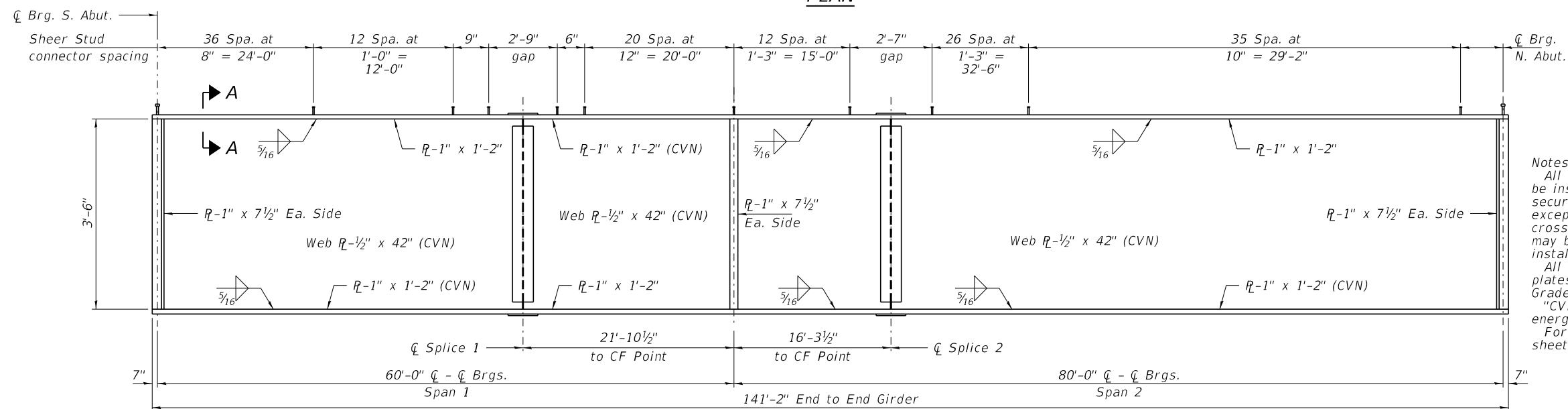
T = ; total movement along centerline of roadway at expansion joint.

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	344



PLAN

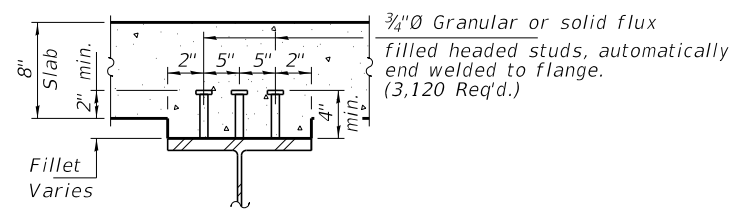


GIRDER ELEVATION

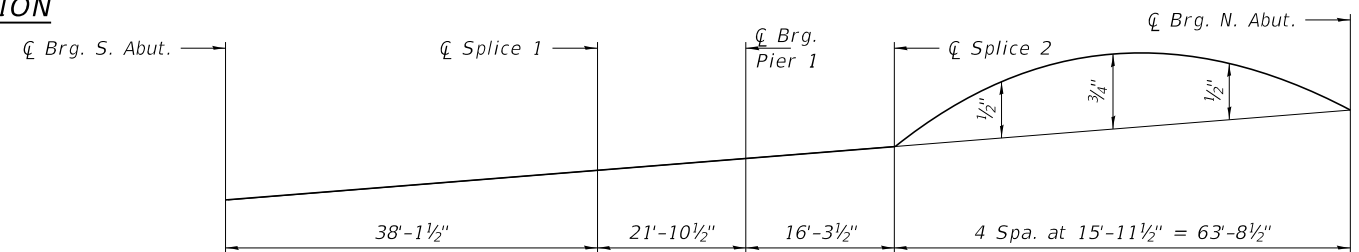
Notes:
 All cross frames or diaphragms shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames or diaphragms at supports may be temporarily disconnected to install bearing anchor rods.
 All beams, diaphragms, connection plates and splices shall be M270 Grade 50W.
 "CVN" denotes Charpy-V-Notch impact energy requirements, zone 2.
 For Structural Steel details see sheet 15 & 16 of 23.

Location	☐ Brg. S. Abut.	☐ Splice 1	☐ Brg. Pier 1	☐ Splice 2	☐ Brg. N. Abut.
BEAM 1	665.89	666.10	666.34	666.52	667.39
BEAM 2	665.46	665.67	665.92	666.10	666.98
BEAM 3	665.04	665.25	665.50	665.68	666.56
BEAM 4	664.61	664.83	665.08	665.26	666.15
BEAM 5	664.19	664.41	664.66	664.84	665.74

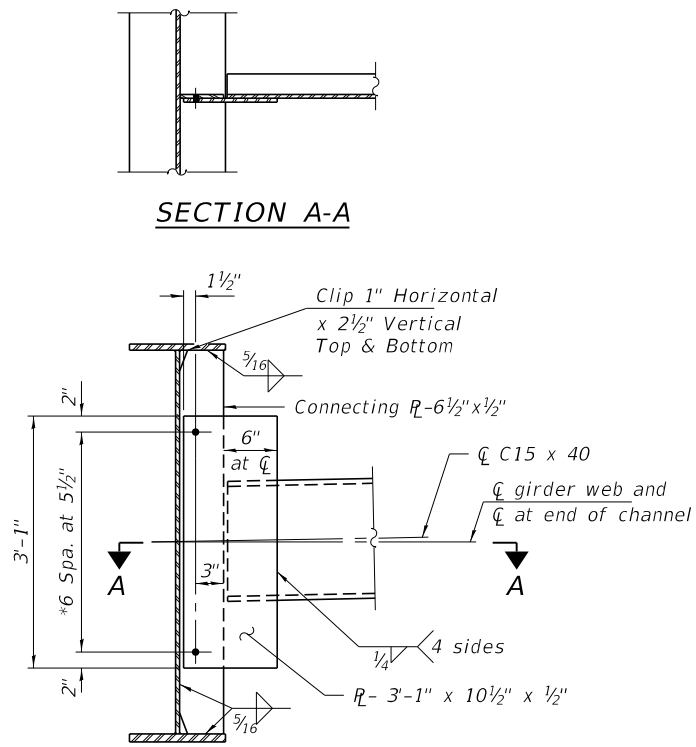
TOP OF WEB ELEVATIONS
 (For Fabrication only)
 (Does not include Dead Load Deflections)



SECTION A-A

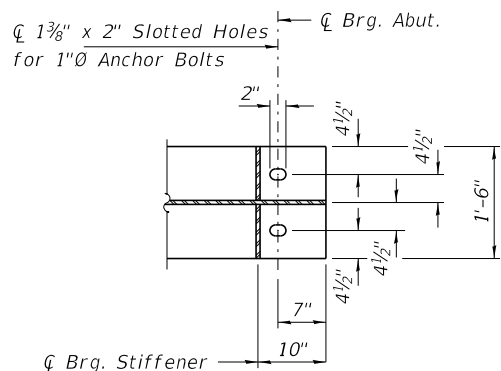


CAMBER DIAGRAM

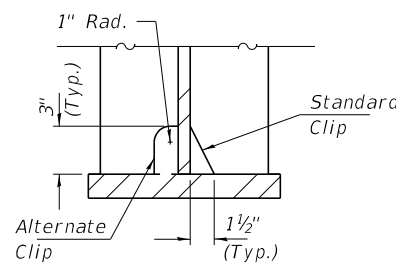


INTERIOR DIAPHRAGM D
(28 required)

Note:
Two hardened washers required for each set of oversized holes.
*3/4" Ø HS bolts, 1 3/16" Ø holes



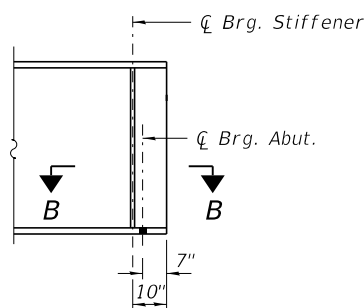
SECTION B-B



CLIP DETAIL

Use Standard Clip or Alternate Clips in all locations. Do not combine us of different clip type.

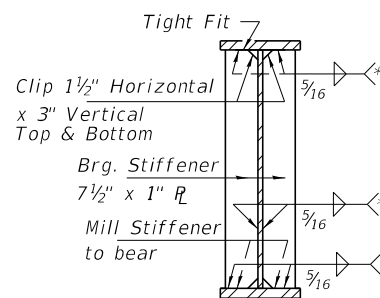
TYP. END OF GIRDER ELEVATION



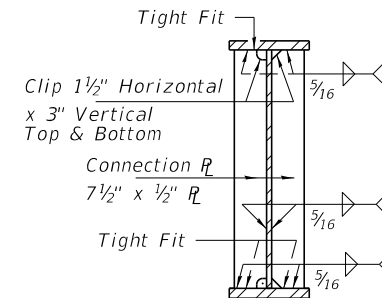
INTERIOR GIRDER MOMENT TABLE				
		0.3 Sp. 1	Pier 1	0.6 Sp. 2
I_s	(in ⁴)	16,032	16,032	16,032
$I_c(n)$	(in ⁴)	39,975	39,975	39,975
$I_c(3n)$	(in ⁴)	30,278	30,278	30,278
$I_c(cr)$	(in ⁴)	20,491	20,491	20,491
S_s	(in ³)	728	728	728
$S_c(n)$	(in ³)	1,002	1,002	1,002
$S_c(3n)$	(in ³)	924	924	924
$S_c(cr)$	(in ³)	807	807	807
DC1	(k/ft)	0.94	0.94	0.94
MDC1	(k)	173	-611	478
DC2	(k/ft)	0.04	0.04	0.04
MDC2	(k)	8	-26	21
DW	(k/ft)	0.35	0.35	0.35
MDW	(k)	64	-228	178
LLDF	(k)	0.686	0.686	0.686
$M_{\ell} + IM$	(k)	763	-962	1,086
M_u (Strength I)	(k)	1,658	-2,821	2,792
$\phi_f M_n$	(k)	3,923	-3,249	3,923
f_s DC1	(ksi)	2.9	-10.1	7.9
f_s DC2	(ksi)	0.1	-0.4	0.3
f_s DW	(ksi)	0.8	-3.4	2.3
f_s ($\ell + IM$)	(ksi)	9.1	-14.3	13.0
f_s (Service II)	(ksi)	15.7	-32.4	27.4
0.95Rh Fyf	(ksi)	47.5	-47.5	47.5
$\phi_f F_n$	(ksi)	-	-43.2	-
Vf	(k)	27.7	-	15.2

INTERIOR GIRDER REACTION TABLE				
		S. Abut.	Pier 1	N. Abut.
LLDF	(k)	0.744	0.73	0.744
OCF	(k)	-	-	-
RDC1	(k)	18.1	83.7	30.0
RDC2	(k)	0.8	3.6	1.3
RDW	(k)	6.8	31.2	11.2
R_{ℓ}	(k)	56.5	98.0	62.1
R_{IM}	(k)	14.5	19.8	15.1
RTotal	(k)	96.7	236.3	119.7

EXTERIOR GIRDER REACTION TABLE				
		S. Abut.	Pier 1	N. Abut.
LLDF	(k)	0.744	0.686	0.744
OCF	(k)	1.000	1.000	1.000
RDC1	(k)	15.2	64.9	25.2
RDC2	(k)	0.8	3.4	1.3
RDW	(k)	6.8	28.8	11.2
R_{ℓ}	(k)	56.5	90.5	62.1
R_{IM}	(k)	14.5	18.3	15.1
RTotal	(k)	93.8	205.9	114.9



SECTION AT ABUTMENT BEARING STIFFENER R'S



SECTION AT CROSS-FRAME CONNECTION R'S

* Terminate 1/4" ($\pm 1/8$ ") from the end of plate intersects

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 (in.⁴ and in.³).

$I_c(n), S_c(n)$: 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 (in.⁴ and in.³).

$I_c(3n), S_c(3n)$: 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 (in.⁴ and in.³).

$I_c(cr), S_c(cr)$: 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 (in.⁴ and in.³).

DC1: Un-factored non-composite dead load (kips/ft.).

MDC1: 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.).

MDC2: 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.).

MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).

$M_{\ell} + IM$: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

M_u (Strength I): Factored design moment (kip-ft.).
1.25 (MDC1 + MDC2) + 1.5 MDW + 1.75 $M_{\ell} + IM$

$\phi_f M_n$: 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).
MDC1/ 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).
MDC2/ $S_c(3n)$ or MDC2/ $S_c(cr)$ 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).
MDW/ $S_c(3n)$ or MDW/ $S_c(cr)$ as applicable.

f_s ($\ell + IM$): Un-factored stress at edge of flange for controlling steel flange due to vertical composite live load plus impact loads as calculated below (ksi).
 $M_{\ell} + IM / S_c(n)$ or $M_{\ell} + IM / S_c(cr)$ as applicable.

f_s (Service II): Sum of stresses as computed below (ksi).
 $f_s DC1 + f_s DC2 + f_s DW + 1.3 f_s(\ell + IM)$

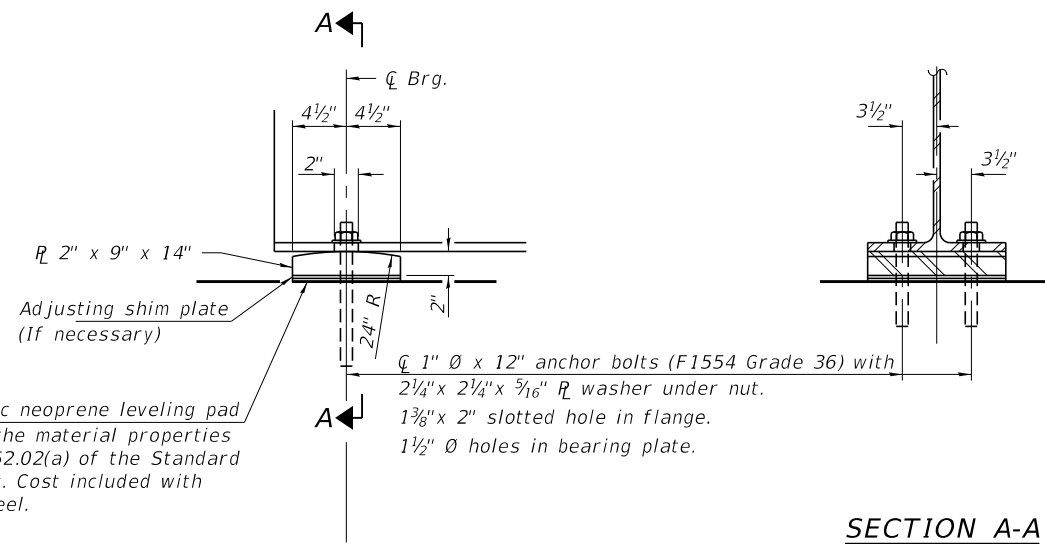
0.95RhFyf: Composite stress capacity for Service II loading according to Article 6.10.4.2 (ksi).
Sum of stresses as computed below on non-compact section (ksi).
1.25 ($f_s DC1 + f_s DC2$) + 1.5 $f_s DW + 1.75 f_s(\ell + IM)$

$\phi_f F_n$: Non-Compact composite positive or negative stress capacity for Strength I loading according to Article 6.10.7 or 6.10.8 (ksi).

Vf: Maximum factored shear range in span computed according to Article 6.10.10.

Note:
 M_{ℓ} and R_{ℓ} include the effects of centrifugal force and superelevation.

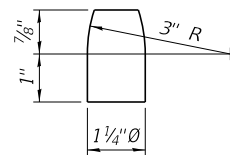
Notes:
For additional structural steel details see sheets 14 & 16 of 23.
All splices and diaphragms, including stiffeners and diaphragms shall be AASHTO M270, Grade 50W.



1/8" elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.

ELEVATION AT ABUTMENT

FIXED BEARING AT ABUTMENTS
(10 required)



PINTLE

Notes:

Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.

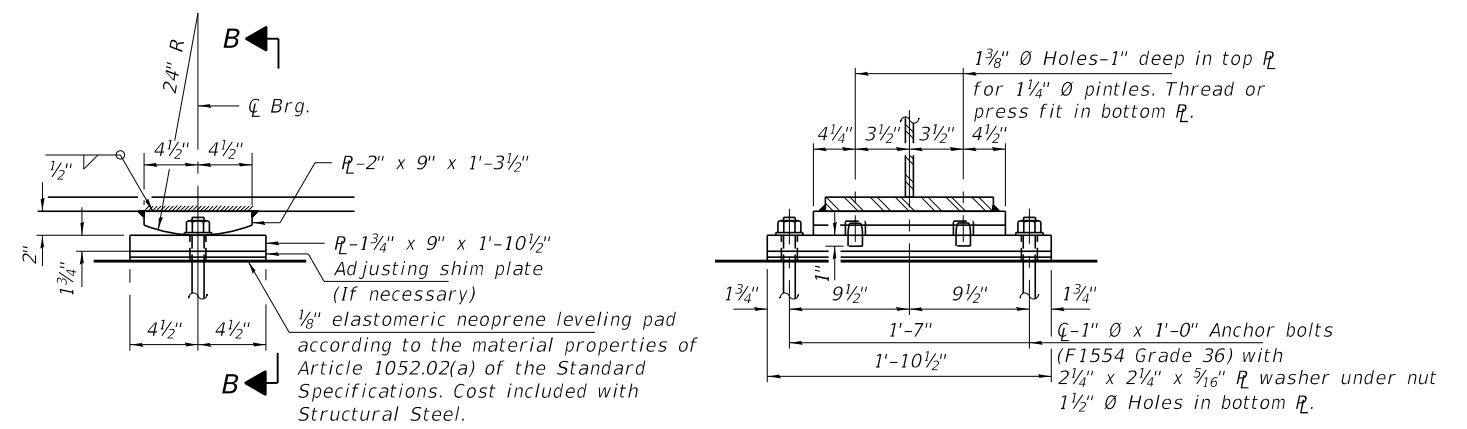
Anchor bolts shall be ASTM F1554 all-thread (or an Engineer-approved alternate material) of the grade(s) and diameter(s) specified. The corresponding specified grade of AASHTO M314 anchor bolts may be used in lieu of ASTM F1554.

Anchor bolts at fixed bearings may be either cast in place or installed in holes drilled after the supported member is in place.

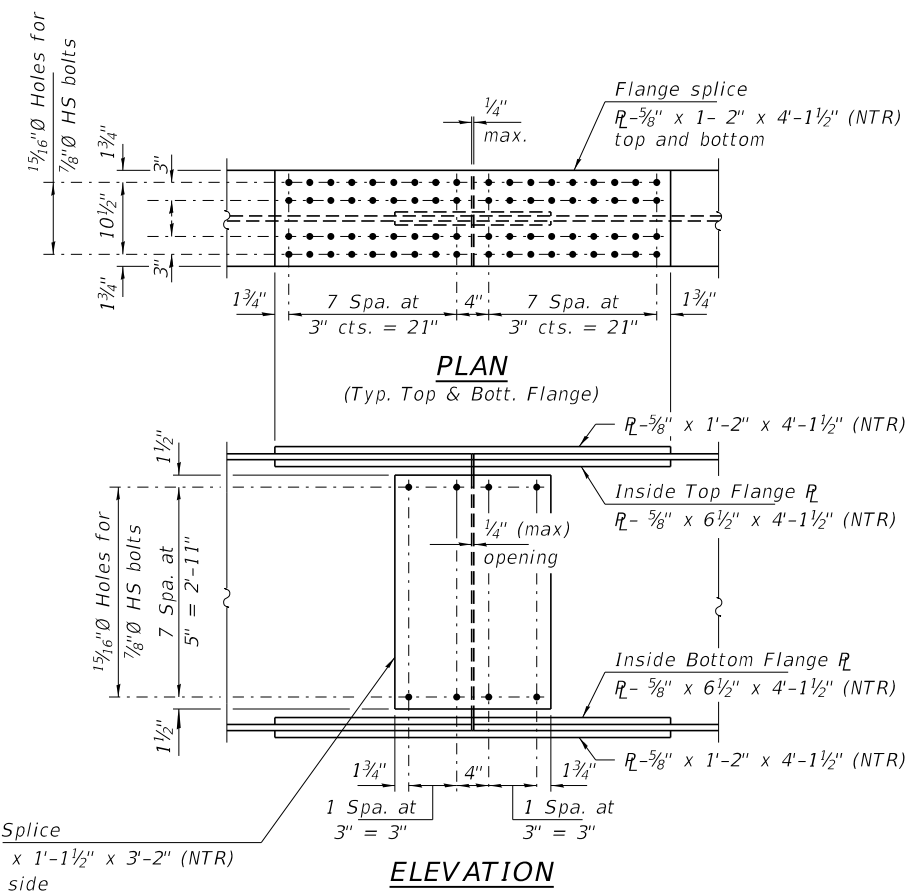
Drilled and set anchor bolts shall be installed according to Article 521.06 of the Standard Specifications.

The structural steel plates of the fixed bearings, including pintles, shall conform to the requirements of AASHTO M270 Grade 50W.

Anchor bolts at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.



FIXED BEARING AT PIER
(5 required)



SPLICE DETAIL (LOCATIONS 1-2)
(10 Required)

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1"	Each	30

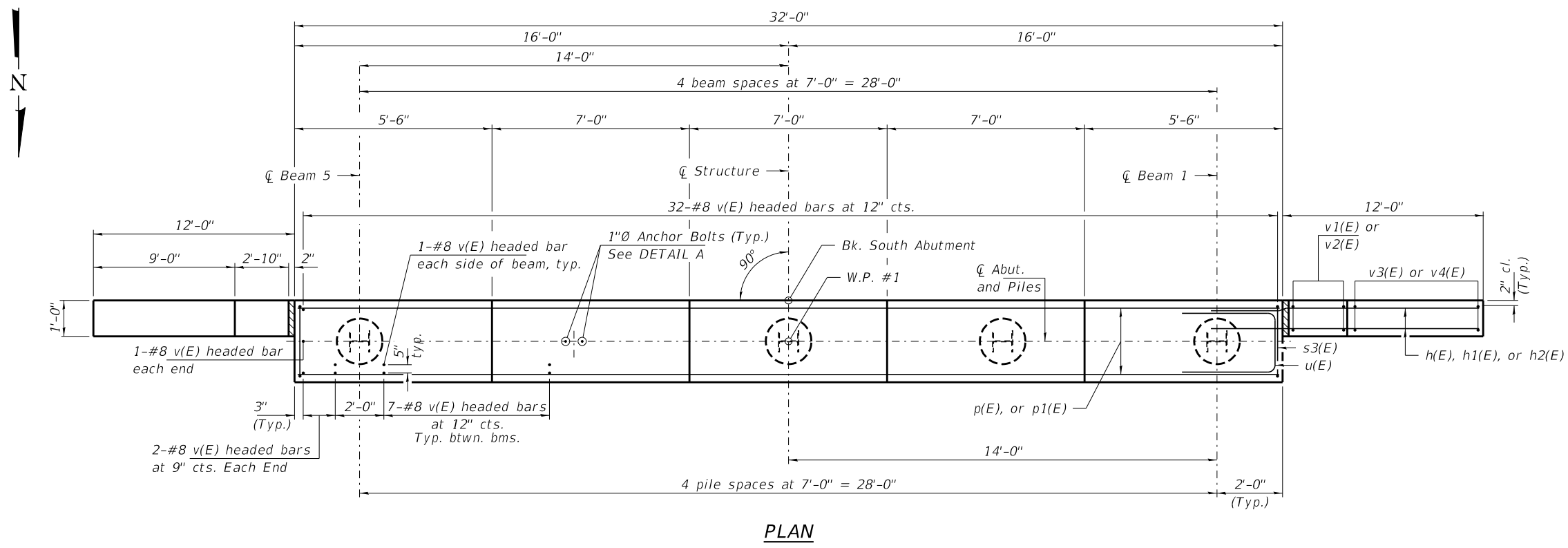
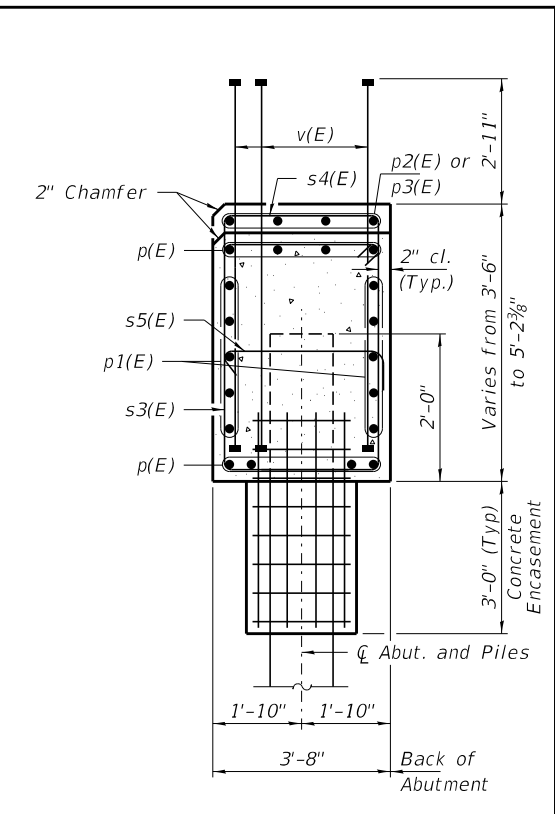
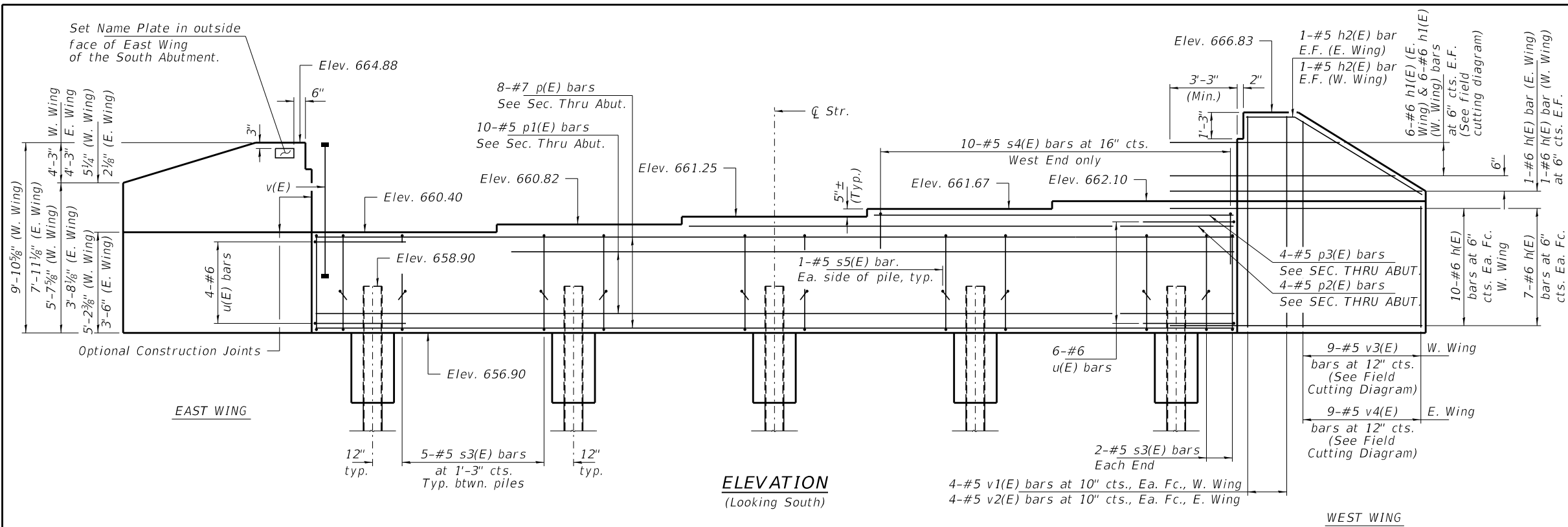
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HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -
PLOT DATE = 3/2/2022		DRAWN - R.D.H.	REVISED -
		CHECKED - S.M.S.	REVISED -

STATE OF ILLINOIS
WARREN COUNTY HIGHWAY DEPARTMENT

STRUCTURAL STEEL DETAILS
STRUCTURE NO. 094-3042

SHEET NO. 16 OF 23 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
410	17-00137-00-BR	WARREN	51	27
PRICE BRIDGE		CONTRACT NO. 89760		
		ILLINOIS FED. AID PROJECT 09M(138)		



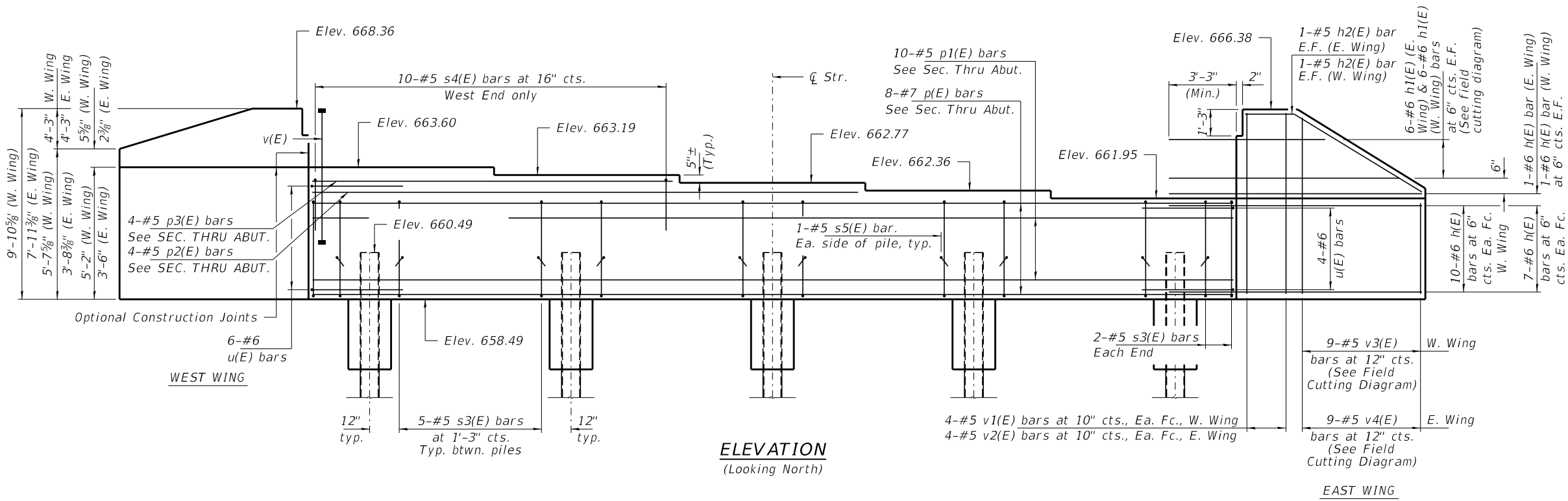
Notes:
 Four steps monolithically with cap.
 Space reinforcement in cap to miss anchor bolts.
 For details of piles, see sheet 19 of 23.

BILL OF MATERIAL - S. ABUT.

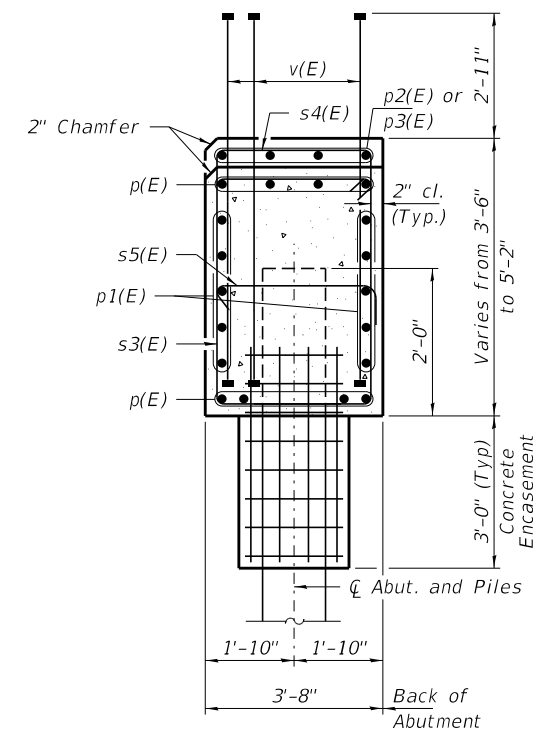
BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	76	#6	13'-3"	—
h1(E)	8	#6	23'-0"	—
h2(E)	4	#5	12'-4"	—
p(E)	8	#7	31'-8"	—
p1(E)	10	#5	31'-8"	—
p2(E)	4	#5	19'-2"	—
p3(E)	4	#5	12'-2"	—
s3(E)	24	#6	14'-4"	□
s4(E)	10	#5	8'-6"	□
s5(E)	10	#5	4'-6"	□
u(E)	10	#6	10'-10"	□
v(E)	76	#8	6'-1"	—
v1(E)	8	#5	9'-6"	—
v2(E)	8	#5	7'-7"	—
v3(E)	9	#5	14'-5"	—
v4(E)	9	#5	10'-7"	—
Concrete Structures			Cu. Yd.	23.7
Concrete Encasement			Cu. Yd.	1.7
Protective Coat			Sq. Yd.	23
Reinf. Bars, Epoxy Coated			Pound	5,250
Furnishing Steel Piles HP12x53			Foot	325
Driving Piles			Foot	325
Name Plates			Each	1

PILE DATA

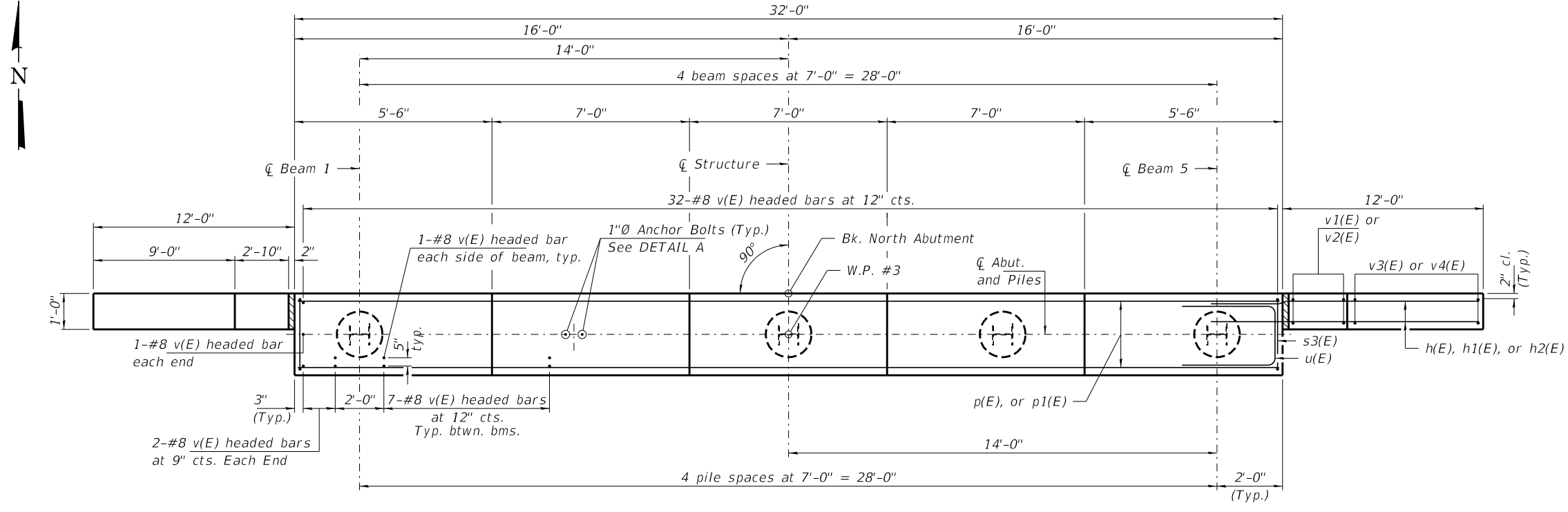
Type: Steel HP12x53
 Nominal Required Bearing: 418 Kips/Pile
 Factored Resistance Available: 230 Kips/Pile
 Est. Length: 65 Ft/Pile
 No. Production Piles: 5
 No. Test Piles: 0



ELEVATION
(Looking North)



SEC. THRU ABUT.



PLAN

PILE DATA

Type: Steel HP12x53
 Nominal Required Bearing: 418 Kips/Pile
 Factored Resistance Available: 230 Kips/Pile
 Est. Length: 65 Ft/Pile
 No. Production Piles: 4
 No. Test Piles: 1

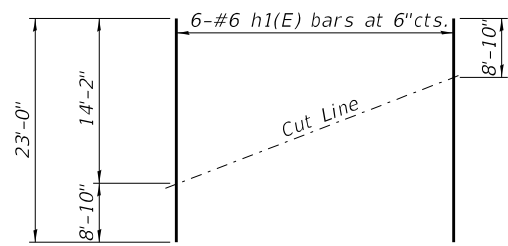
Notes: One test pile shall be driven in a permanent location at the North Abutment.

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

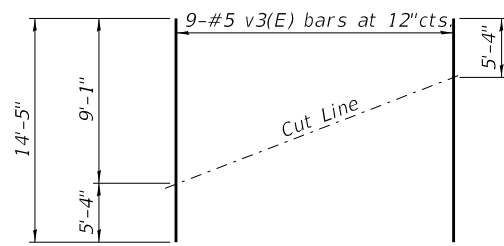
Notes:
 Pour steps monolithically with cap.
 Space reinforcement in cap to miss anchor bolts.
 For details of piles, see sheet 19 of 23.

BILL OF MATERIAL - N. ABUT.

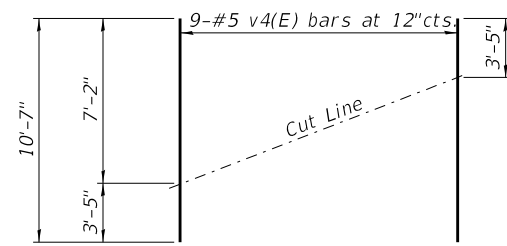
BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	76	#6	13'-3"	—
h1(E)	8	#6	23'-0"	—
h2(E)	4	#5	12'-4"	—
p(E)	8	#7	31'-8"	—
p1(E)	10	#5	31'-8"	—
p2(E)	4	#5	19'-2"	—
p3(E)	4	#5	12'-2"	—
s3(E)	24	#6	14'-4"	□
s4(E)	10	#5	8'-6"	□
s5(E)	10	#5	4'-6"	□
u(E)	10	#6	10'-10"	□
v(E)	76	#8	6'-1"	—
v1(E)	8	#5	9'-6"	—
v2(E)	8	#5	7'-7"	—
v3(E)	9	#5	14'-5"	—
v4(E)	9	#5	10'-7"	—
Concrete Structures				Cu. Yd. 23.7
Concrete Encasement				Cu. Yd. 1.7
Protective Coat				Sq. Yd. 23
Reinf. Bars, Epoxy Coated				Pound 5,250
Furnishing Steel Piles HP12x53				Foot 260
Driving Piles				Foot 260
Test Pile Steel HP12x53				Each 1



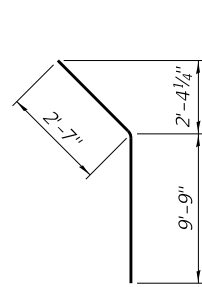
FIELD CUTTING DIAGRAM
Order h1(E) full length. Cut as shown and use remainder of bars in opposite face.



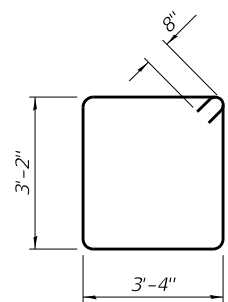
FIELD CUTTING DIAGRAM
Order v3(E) full length. Cut as shown and use remainder of bars in opposite face.



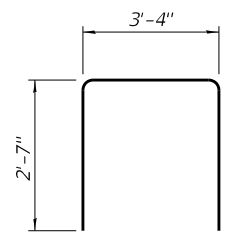
FIELD CUTTING DIAGRAM
Order v4(E) full length. Cut as shown and use remainder of bars in opposite face.



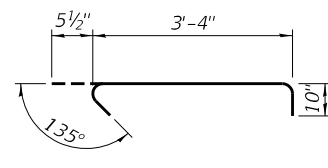
BAR h2(E)



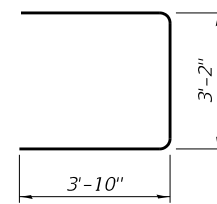
BAR s3(E)



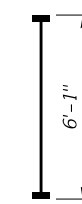
BAR s4(E)



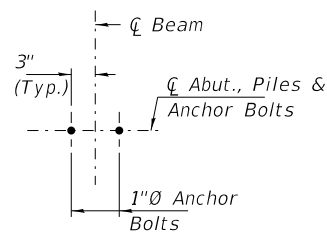
BAR s5(E)



BAR u(E)



BAR v(E)
(Headed)



DETAIL A

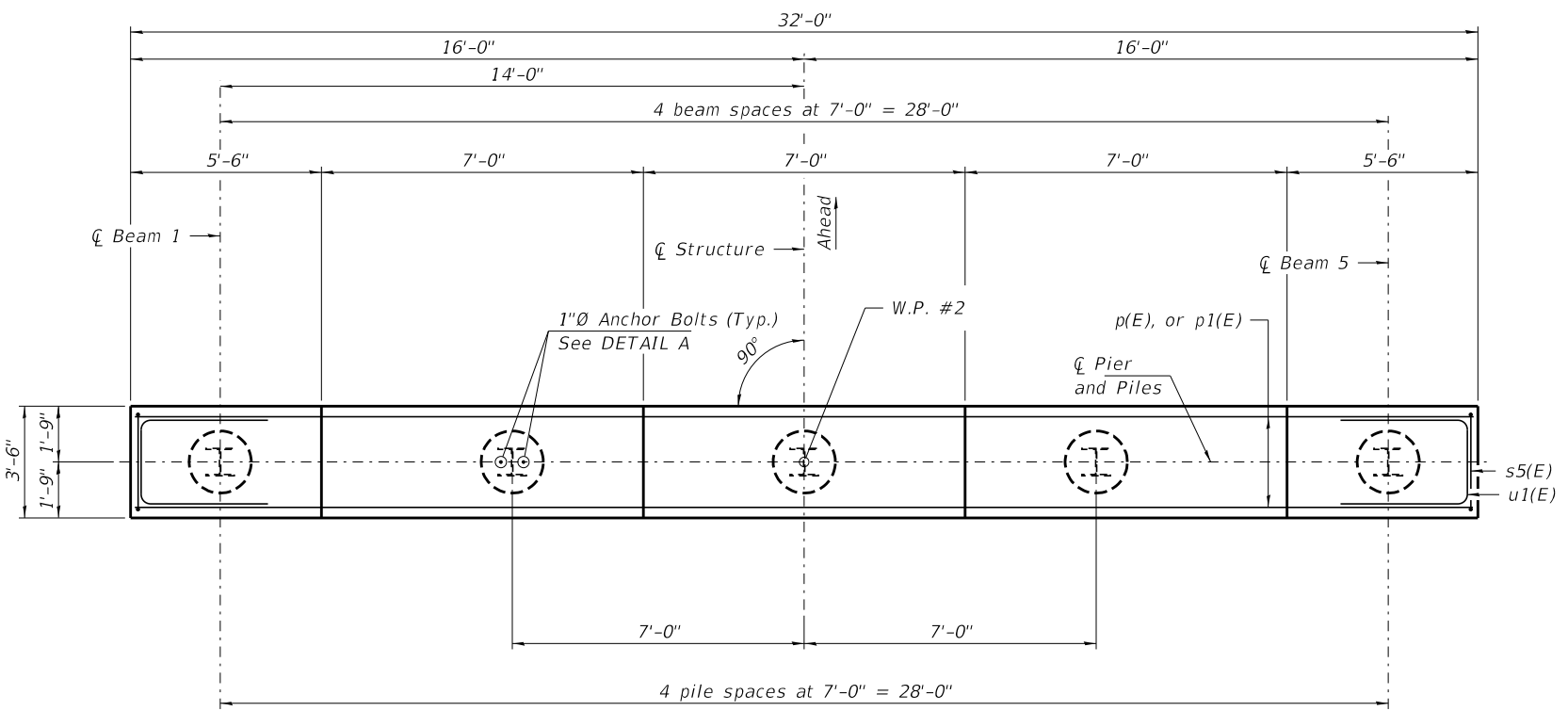
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HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000959	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -
PLOT DATE = 3/2/2022		DRAWN - R.D.H.	REVISED -
		CHECKED - S.M.S.	REVISED -

STATE OF ILLINOIS
WARREN COUNTY HIGHWAY DEPARTMENT

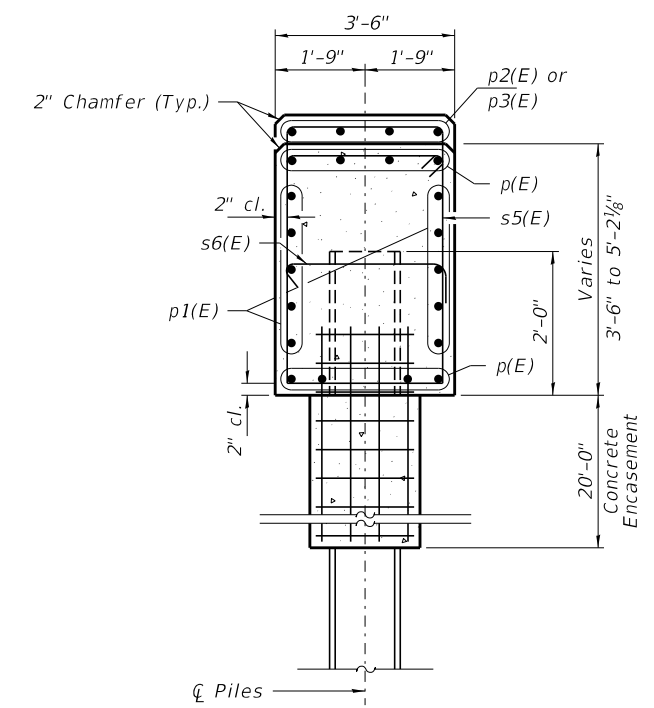
ABUTMENT DETAILS
STRUCTURE NO. 094-3042

SHEET NO. 19 OF 23 SHEETS

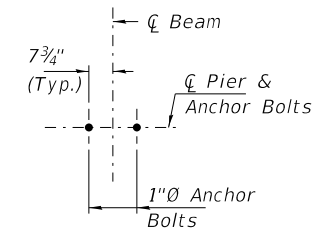
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
410	17-00137-00-BR	WARREN	51	30
PRICE BRIDGE		CONTRACT NO. 89760		
		ILLINOIS FED. AID PROJECT ONR(138)		



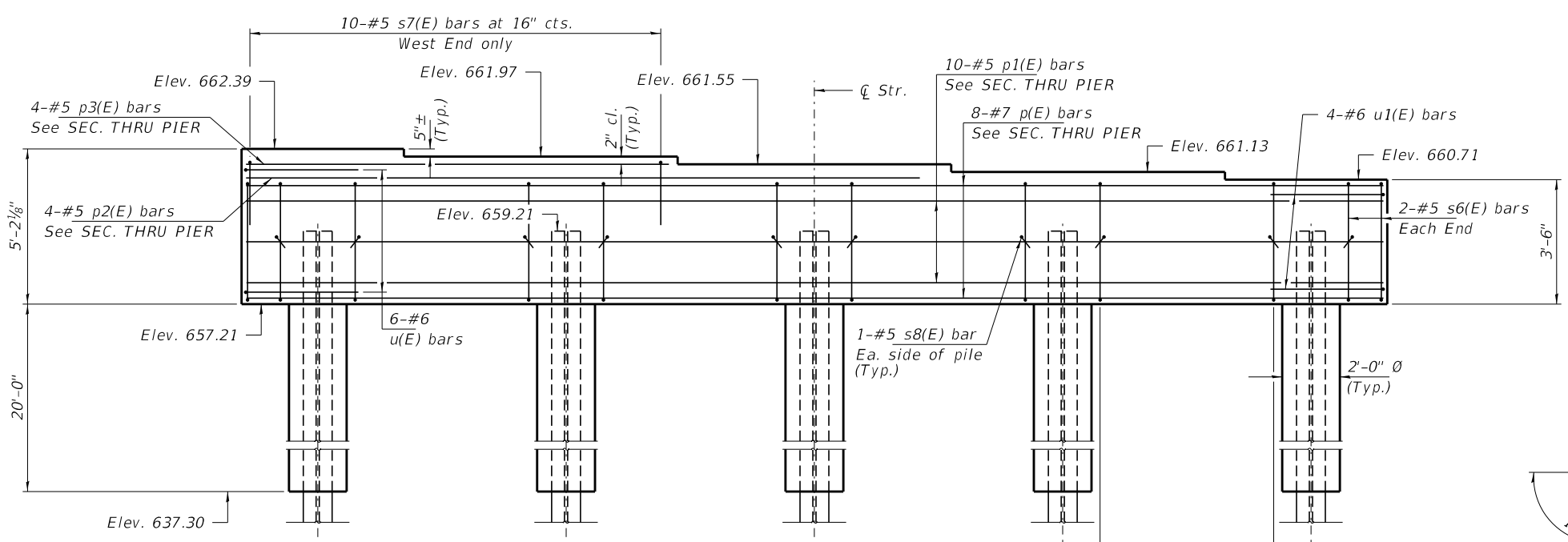
PLAN



SEC. THRU PIER



DETAIL A

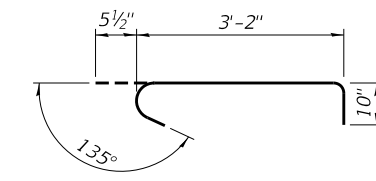


ELEVATION
(Looking North)

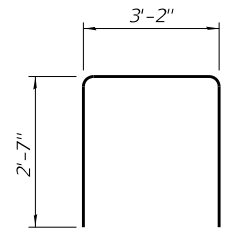
PILE DATA

Type: Steel HP12x53
 Nominal Required Bearing: 418 Kips/Pile
 Factored Resistance Available: 230 Kips/Pile
 Est. Length: 65 Ft/Pile
 No. Production Piles: 4
 No. Test Piles: 1

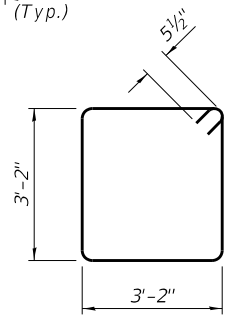
Notes: One test pile shall be driven in a permanent location at the Pier.
 The test pile shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.



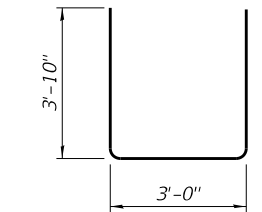
BAR s8(E)



BAR s7(E)



BAR s6(E)



BAR u1(E)

Notes:
 Space reinforcement in cap to miss anchor bolts.
 Pour steps monolithically with cap.
 For details of piles, see sheet 21 of 23.

BILL OF MATERIAL - PIER

BAR	NO.	SIZE	LENGTH	SHAPE	
p(E)	8	#7	31'-8"	—	
p1(E)	10	#5	31'-8"	—	
p2(E)	4	#5	19'-2"	—	
p3(E)	4	#5	12'-2"	—	
s6(E)	24	#5	13'-7"	□	
s7(E)	10	#5	8'-4"	□	
s8(E)	10	#5	4'-6"	U	
u1(E)	10	#6	10'-8"	U	
Cofferdam (Type 2) (Location-1)				Each	1
Concrete Structures				Cu. Yd.	18.1
Concrete Encasement				Cu. Yd.	11.6
Reinf. Bars, Epoxy Coated				Pound	1,610
Furnishing Steel Piles HP12x53				Foot	260
Driving Piles				Foot	260
Test Pile Steel HP12x53				Each	1

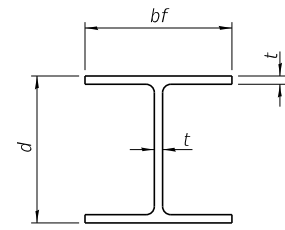
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HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	CHECKED - S.W.M.	DRAWN - R.D.H.	REVISED - 02/08/14/19 S.W.M.
PLOT SCALE = \$SCALE\$	CHECKED - S.M.S.		REVISED -
PLOT DATE = 3/2/2022			

STATE OF ILLINOIS
WARREN COUNTY HIGHWAY DEPARTMENT

PIER
STRUCTURE NO. 094-3042

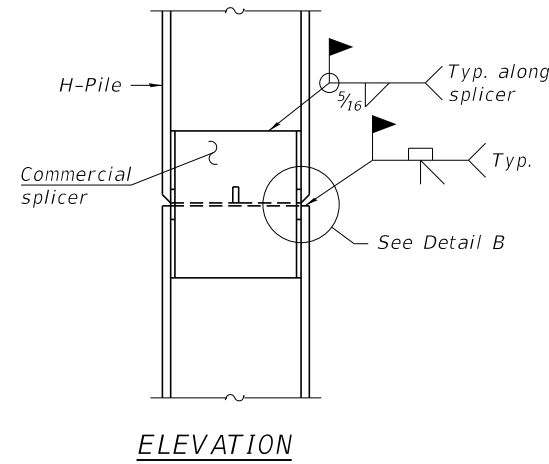
SHEET NO. 20 OF 23 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
410	17-00137-00-BR	WARREN	51	31
PRICE BRIDGE		CONTRACT NO. 89760		
		ILLINOIS FED. AID PROJECT 09M(138)		

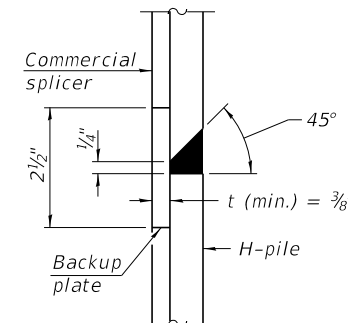


STEEL PILE TABLE

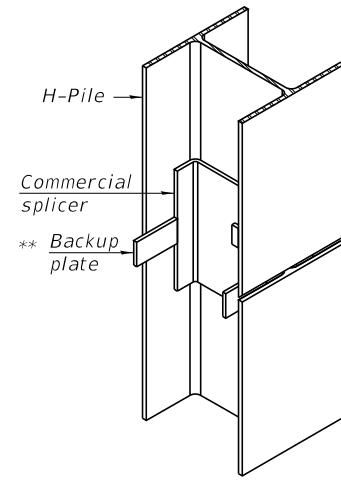
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 3/8"	14 3/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"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

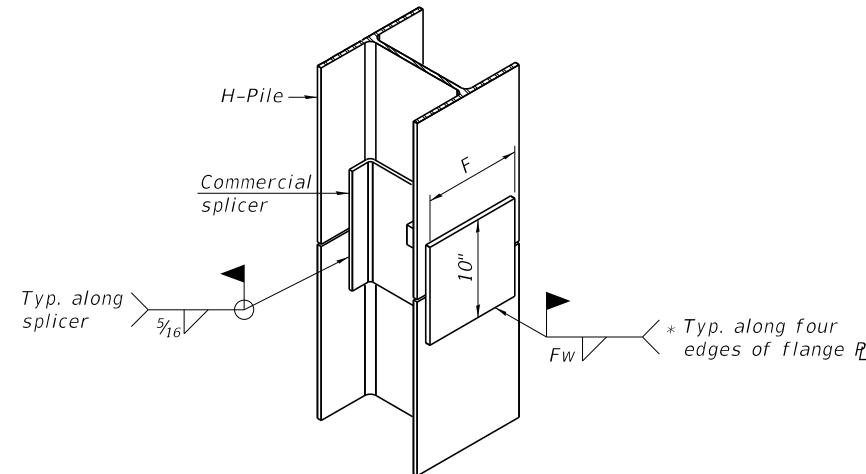


DETAIL "B"



ISOMETRIC VIEW

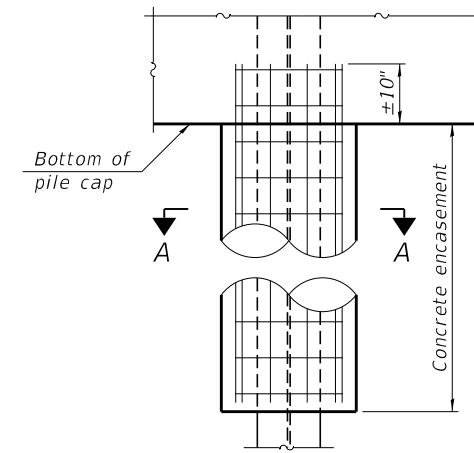
WELDED COMMERCIAL SPLICE



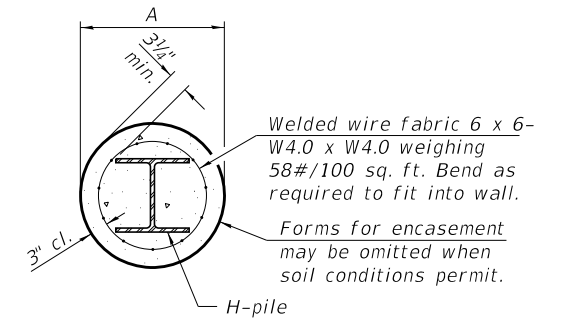
ISOMETRIC VIEW

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.).

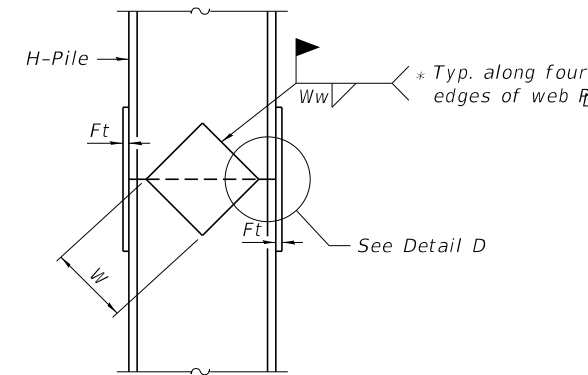


ELEVATION

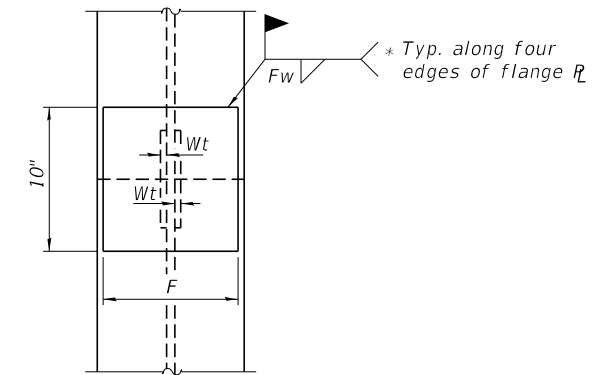


SECTION A-A

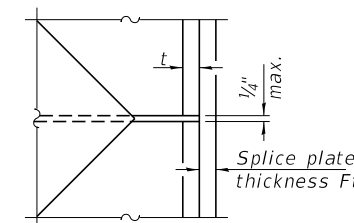
INDIVIDUAL PILE CONCRETE ENCASUREMENT (when specified)



ELEVATION



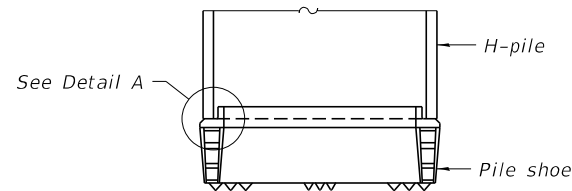
END VIEW



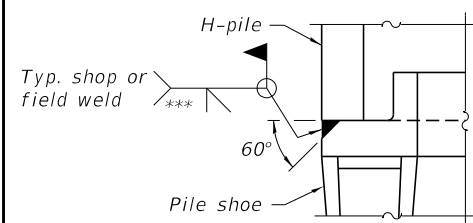
DETAIL D

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"	1 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 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 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

SHOE ATTACHMENT

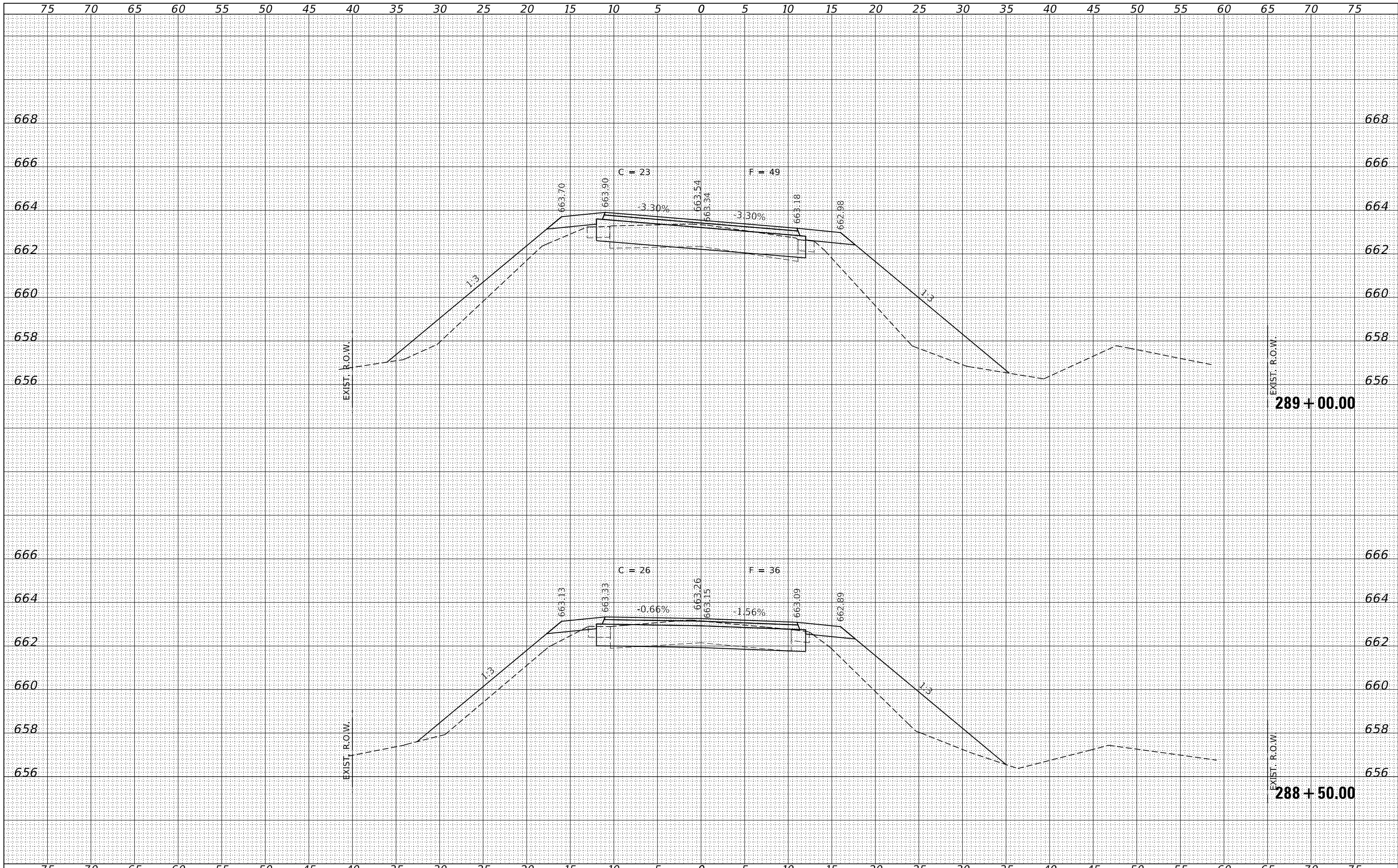
Note:
The steel H-piles shall be according to AASHTO M270 Grade 50.

F-HP 1-1-2020

FILE NAME = 180027-shi-bridge.dgn	USER NAME = rthosick	DESIGNED - P.R.R.	REVISED -	STATE OF ILLINOIS WARREN COUNTY HIGHWAY DEPARTMENT	HP PILE DETAILS STRUCTURE NO. 094-3042	F.A.S.	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 = \$SCALE\$	CHECKED - S.W.M.	REVISED -			410	17-00137-00-BR	WARREN	51	32	
	PLOT DATE = 3/2/2022	DRAWN - R.D.H.	REVISED -			PRICE BRIDGE		CONTRACT NO. 89760			
		CHECKED - S.M.S.	REVISED -			SHEET NO. 21 OF 23 SHEETS		ILLINOIS FED. AID PROJECT 09M(138)			

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 = 180027-shl-xssheets.dgn
 DESIGNED - J.W.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 03/02/2022

USER NAME = rmosck
 PLOT SCALE = \$Scales
 PLOT DATE = 3/2/2022

REVISIED -
 REVISIED -
 REVISIED -
 REVISIED -

STATE OF ILLINOIS
 WARREN COUNTY HIGHWAY DEPARTMENT

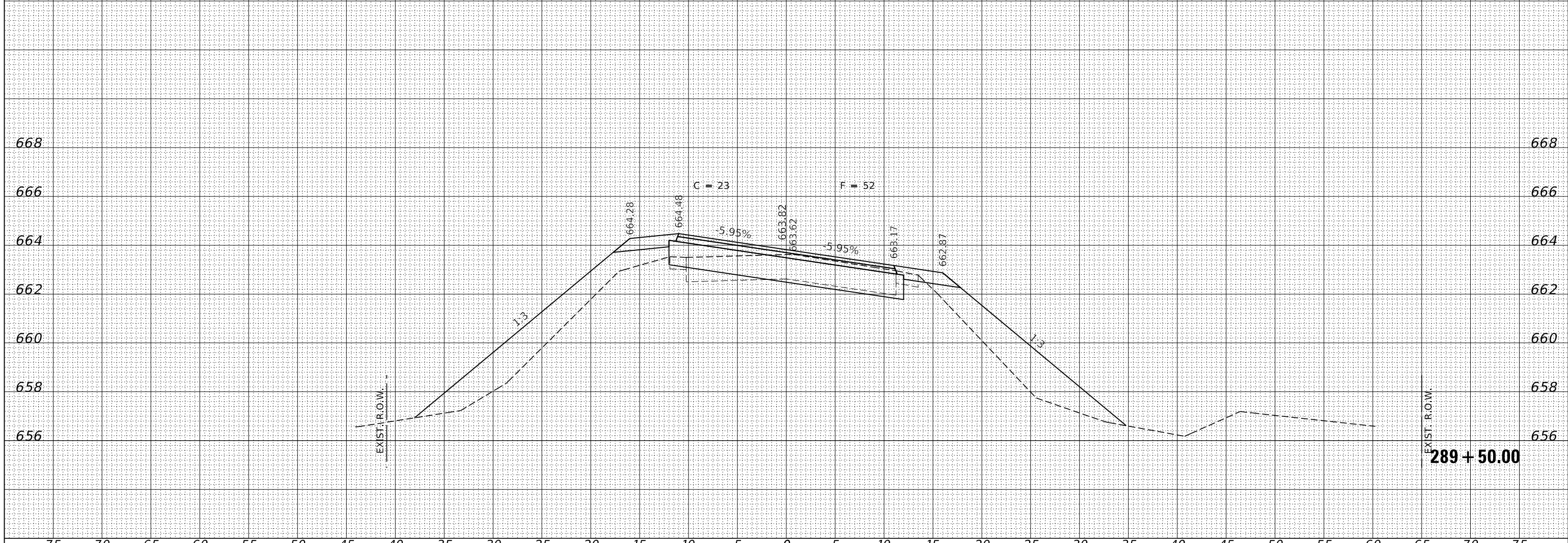
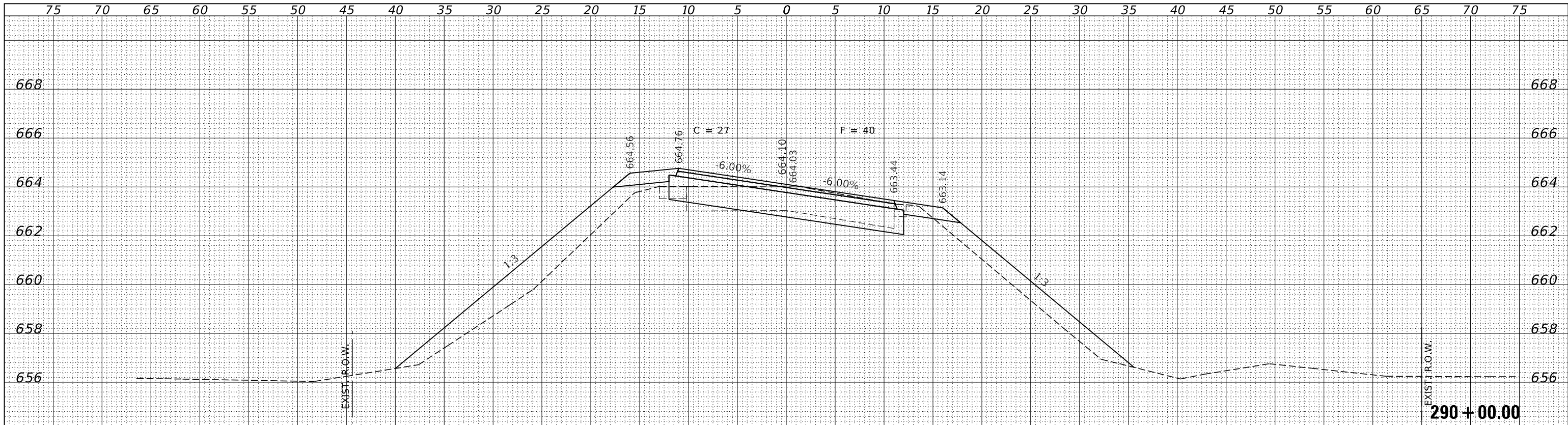
STATION CROSS SECTIONS
 C.H. 4 / FAS 410

SCALE: 5H:2V SHEET NO. 2 OF 17 SHEETS STA. 288+50.00 TO STA. 289+00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
410	17-00137-00-BR	WARREN	51	36
PRICE BRIDGE			CONTRACT NO. 89760	
ILLINOIS FED. AID PROJECT 09H(138)				

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 = 180027-sh1-xssheets.dgn
 USER NAME = rmosck
 DESIGNED - J.V.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 03/02/2022
 PLOT SCALE = \$SCALES
 PLOT DATE = 3/2/2022

DESIGNED - J.V.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 03/02/2022

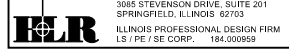
REVISIED -
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STATE OF ILLINOIS
 WARREN COUNTY HIGHWAY DEPARTMENT

SCALE: 5H:2V
 SHEET NO. 3 OF 17 SHEETS
 STA. 289+50.00 TO STA. 290+00.00

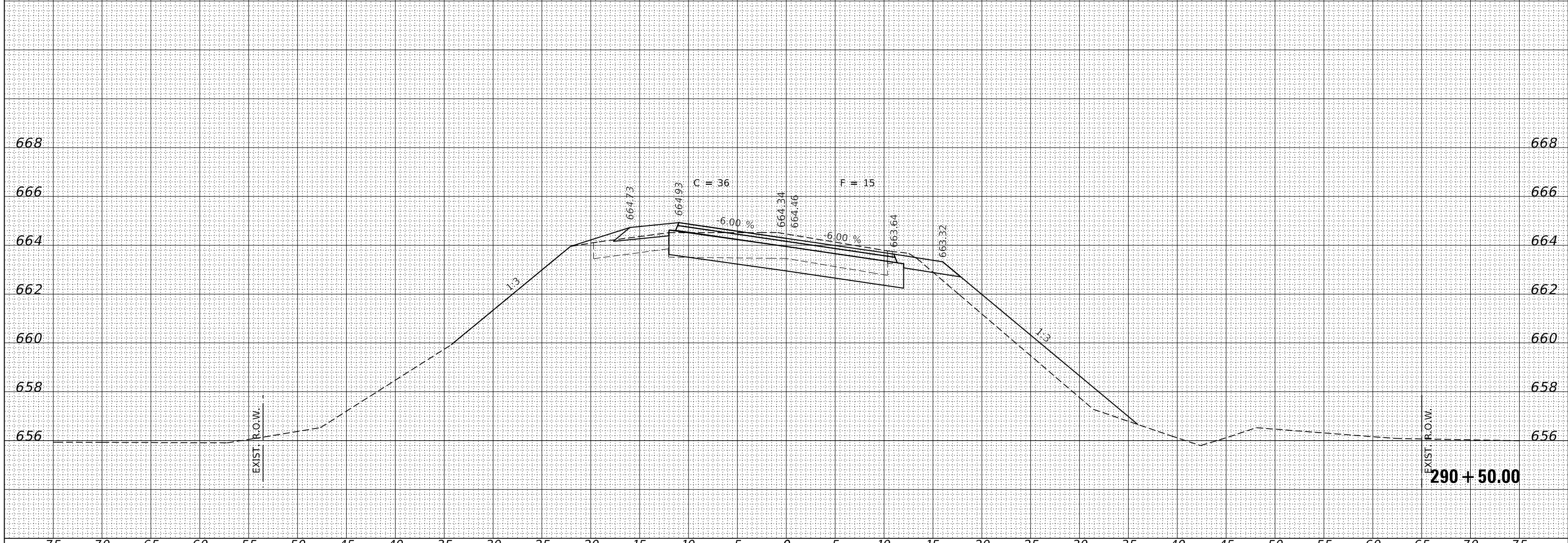
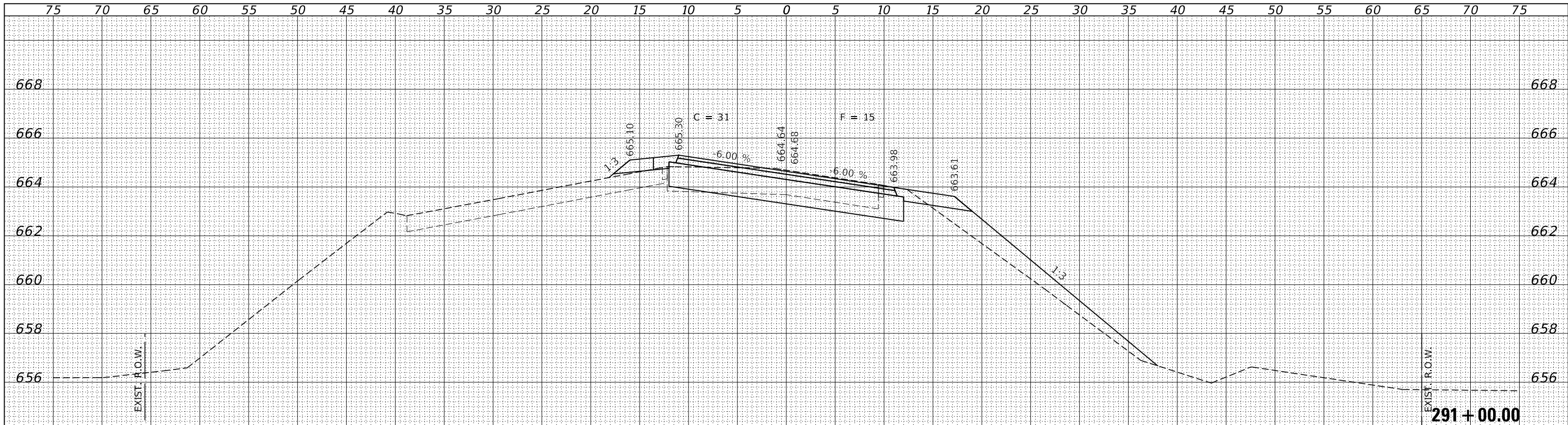
STATION CROSS SECTIONS
 C.H. 4 / FAS 410

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
410	17-00137-00-BR	WARREN	51	37
PRICE BRIDGE			CONTRACT NO. 89760	
ILLINOIS FED. AID PROJECT 09H(138)				



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

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



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 DESIGNED - J.W.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 03/02/2022

USER NAME = rmosck
 PLOT SCALE = \$SCALES
 PLOT DATE = 3/2/2022

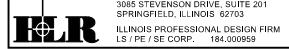
REVISIED -
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STATE OF ILLINOIS
 WARREN COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
 C.H. 4 / FAS 410

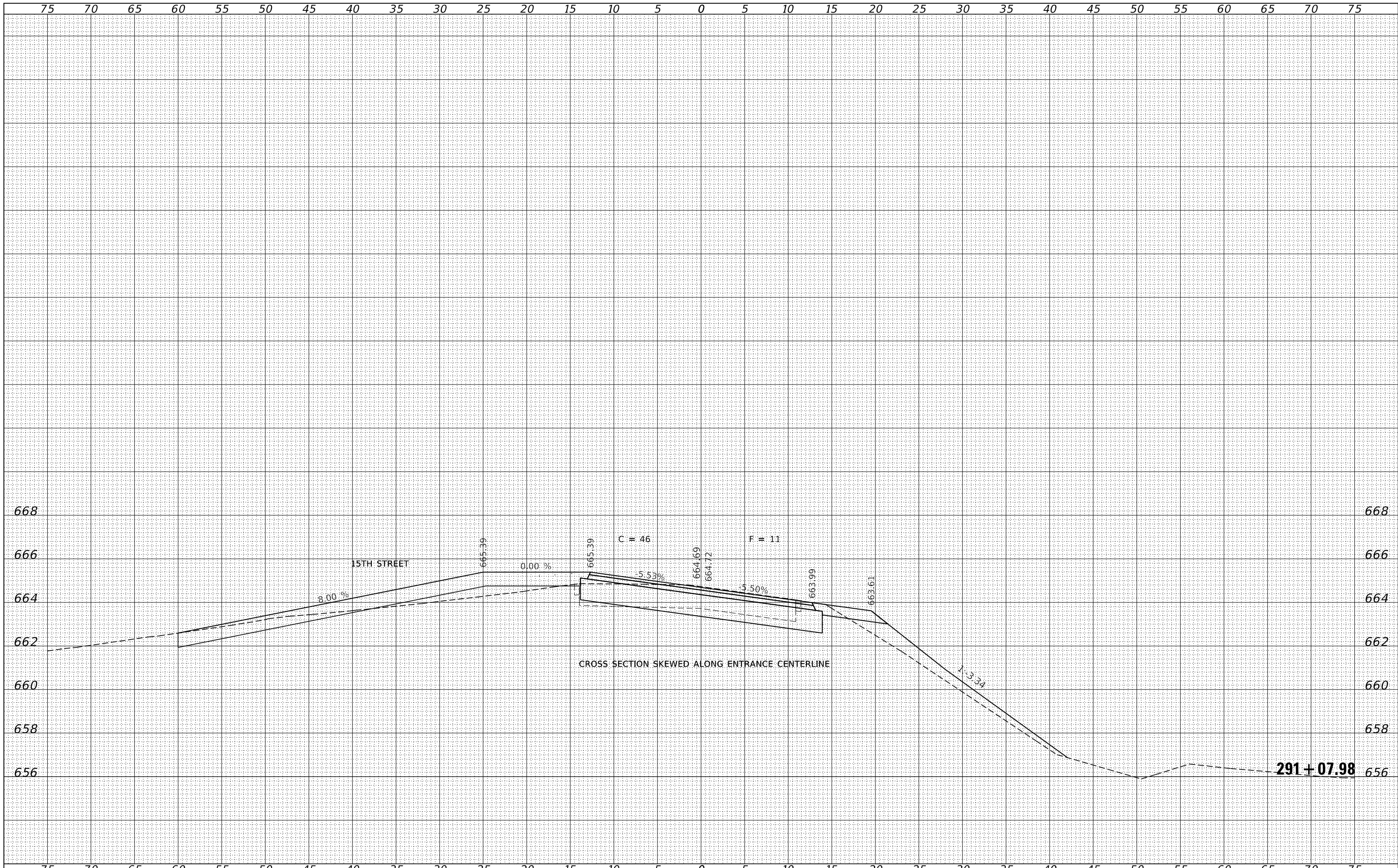
SCALE: 5H:2V
 SHEET NO. 4 OF 17 SHEETS
 STA. 290+50.00 TO STA. 291+00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
410	17-00137-00-BR	WARREN	51	38
PRICE BRIDGE			CONTRACT NO. 89760	
ILLINOIS FED. AID PROJECT 09H(138)				



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

DATE	
BY	
SURVEYED	
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TEMPLATE	
AREAS	
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ORIGINAL SURVEY	
NOTE BOOK	
NO.	



FILE NAME = 180027-shl-xssheets.dgn
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 DESIGNED - J.V.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 03/02/2022
 PLOT SCALE = \$SCALES
 PLOT DATE = 3/2/2022

DESIGNED - J.V.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 03/02/2022

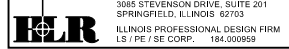
REVISIONS
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STATE OF ILLINOIS
 WARREN COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
 C.H. 4 / FAS 410

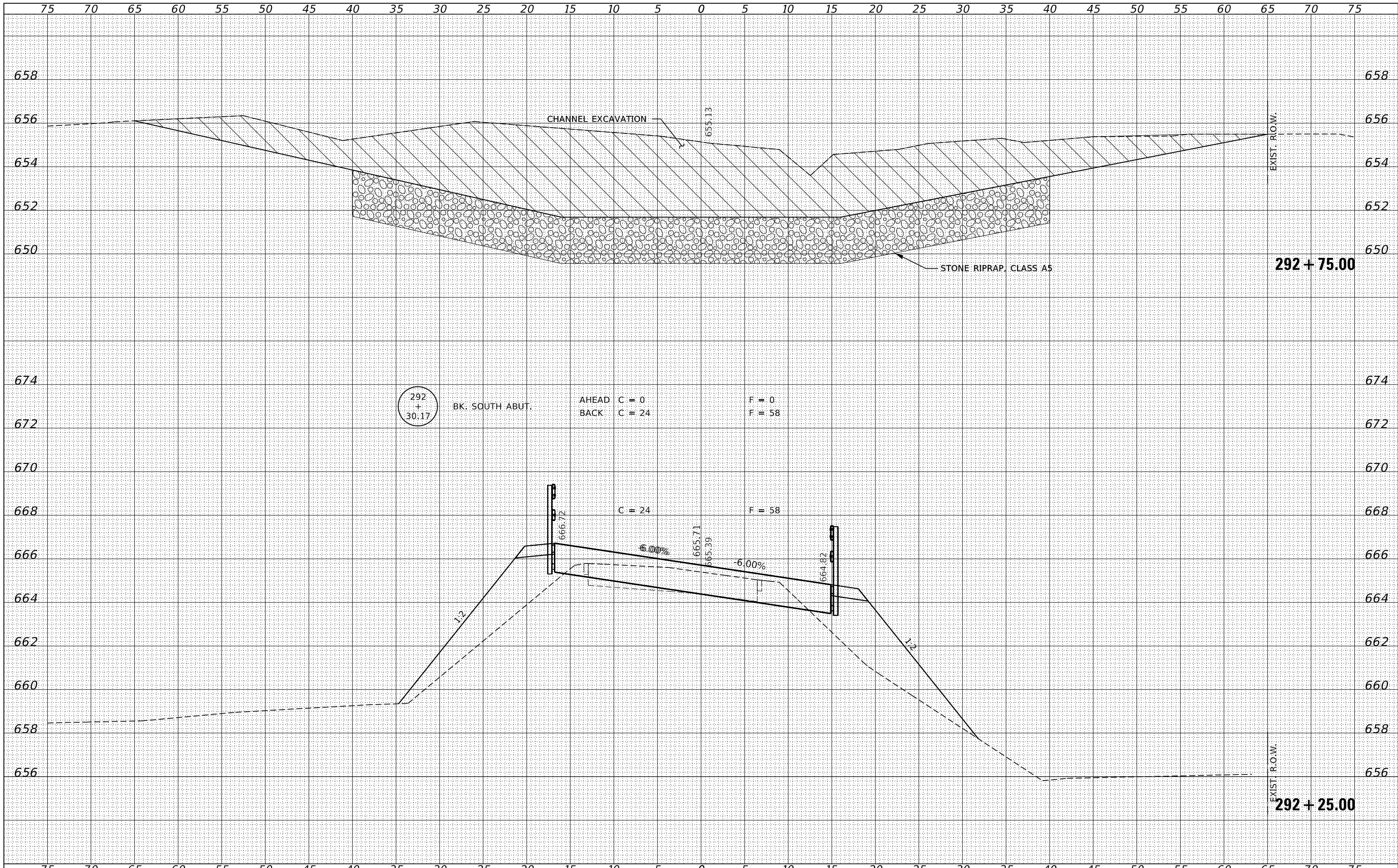
SCALE: 5H:2V
 SHEET NO. 5 OF 17 SHEETS
 STA. 291+07.98 TO STA. 291+07.98

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
410	17-00137-00-BR	WARREN	51	39
PRICE BRIDGE			CONTRACT NO. 89760	
ILLINOIS FED. AID PROJECT 09H(138)				



DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



FILE NAME = 180027-shl-xssheets.dgn
 DESIGNED - J.V.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 03/02/2022

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 PLOT DATE = 3/2/2022

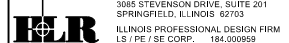
REVISIONS:
 REVISION NO. | DATE | DESCRIPTION
 1 | | |
 2 | | |

STATE OF ILLINOIS
 WARREN COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
 C.H. 4 / FAS 410

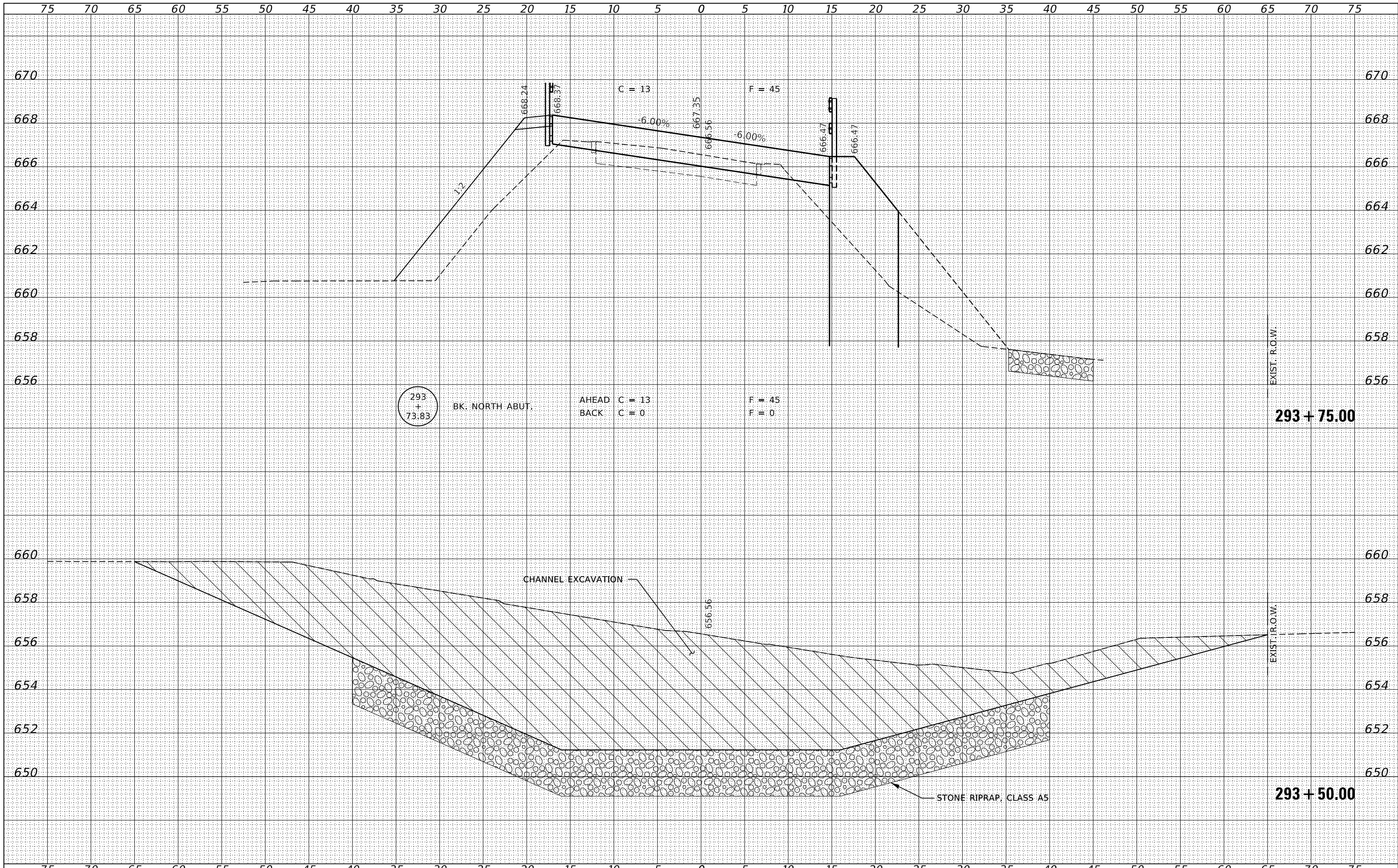
SCALE: 5H:2V SHEET NO. 8 OF 17 SHEETS STA. 292+25.00 TO STA. 292+75.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
410	17-00137-00-BR	WARREN	51	42
PRICE BRIDGE			CONTRACT NO. 89760	
ILLINOIS FED. AID PROJECT 09H(138)				



DATE	
BY	
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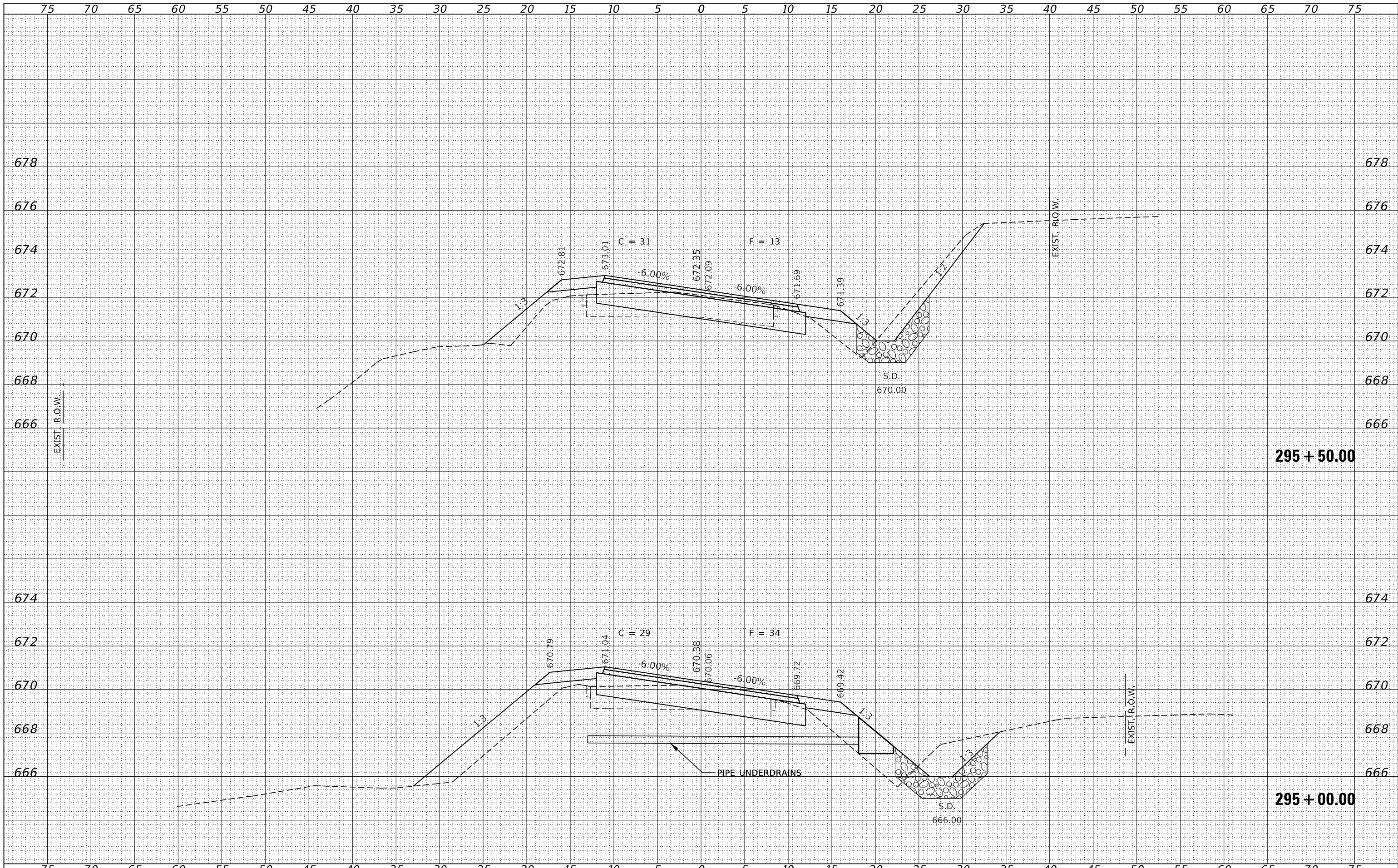
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BY	
ORIGINAL SURVEY	
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PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
NO.	



FILE NAME = 180027-shl-xssheets.dgn	USER NAME = rmosck	DESIGNED - J.V.F.	REVISED -	STATE OF ILLINOIS WARREN COUNTY HIGHWAY DEPARTMENT	STATION CROSS SECTIONS C.H. 4 / FAS 410			F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - T.W.K.	REVISED -		410	17-00137-00-BR	WARREN	51	43			
3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.009958		CHECKED - S.W.M.	REVISED -		PRICE BRIDGE			CONTRACT NO. 89760				
		DATE - 03/02/2022	REVISED -		SCALE: 5H:2V	SHEET NO. 9 OF 17 SHEETS	STA. 293+50.00 TO STA. 293+75.00	ILLINOIS FED. AID PROJECT 09H(138)				

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

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



FILE NAME = 180027-shl-xssheets.dgn
 USER NAME = rmosck
 DESIGNED - J.V.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 03/02/2022

PLOT SCALE = \$SCALE\$
 PRICE BRIDGE
 PLOT DATE = 3/2/2022

REVISIED -
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 REVISIED -
 REVISIED -

STATE OF ILLINOIS
 WARREN COUNTY HIGHWAY DEPARTMENT

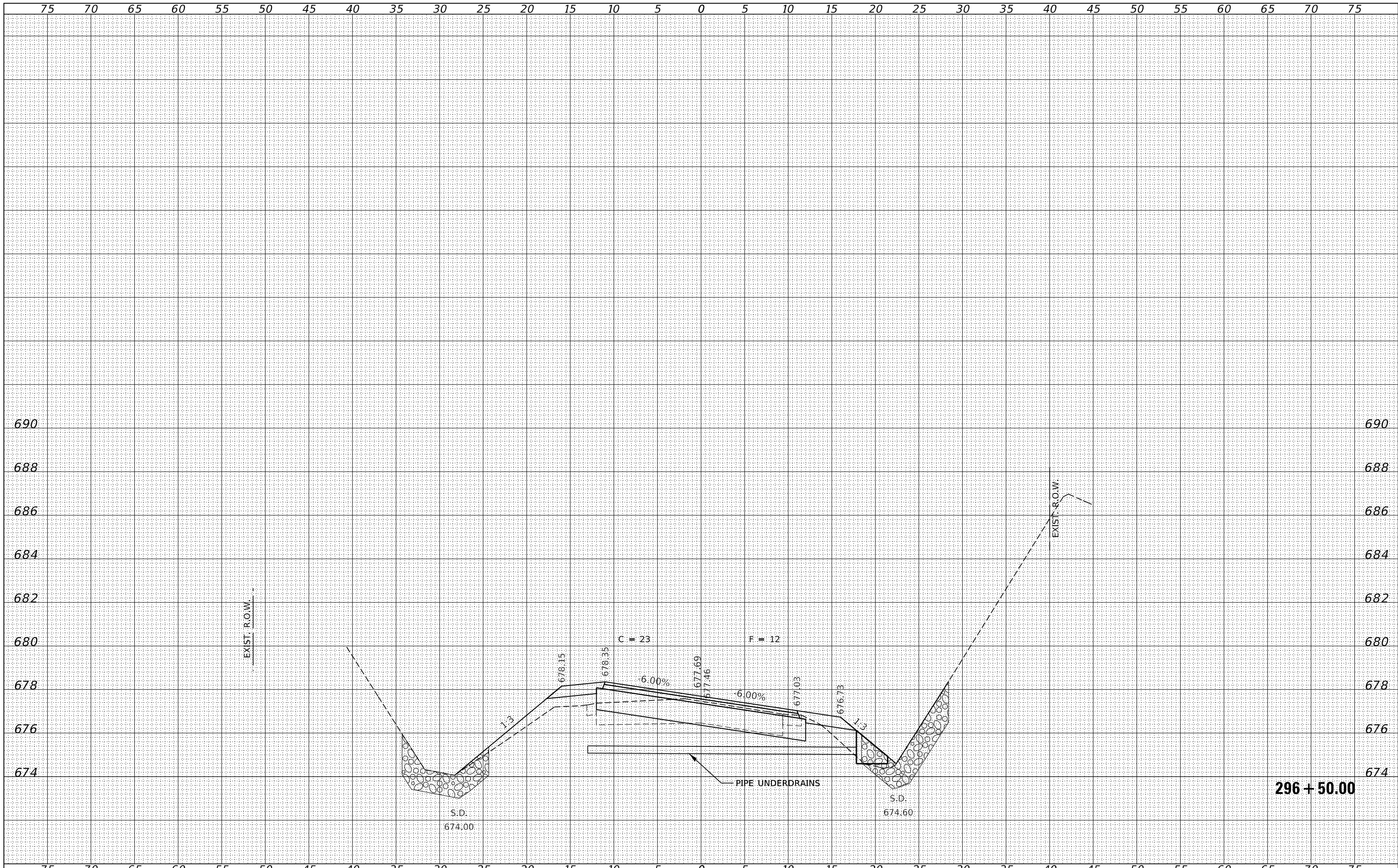
STATION CROSS SECTIONS
 C.H. 4 / FAS 410

SCALE: 5H:2V
 SHEET NO. 11 OF 17 SHEETS
 STA. 295+00.00 TO STA. 295+50.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
410	17-00137-00-BR	WARREN	51	45
PRICE BRIDGE			CONTRACT NO. 89760	
ILLINOIS FED. AID PROJECT 09H(138)				

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

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



FILE NAME = 180027-shl-vssheets.dgn
 USER NAME = rmosck
 DESIGNED - J.W.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 03/02/2022

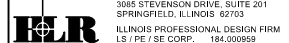
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STATE OF ILLINOIS
 WARREN COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
 C.H. 4 / FAS 410

SCALE: 5H:2V SHEET NO. 14 OF 17 SHEETS STA. 296+50.00 TO STA. 296+50.00

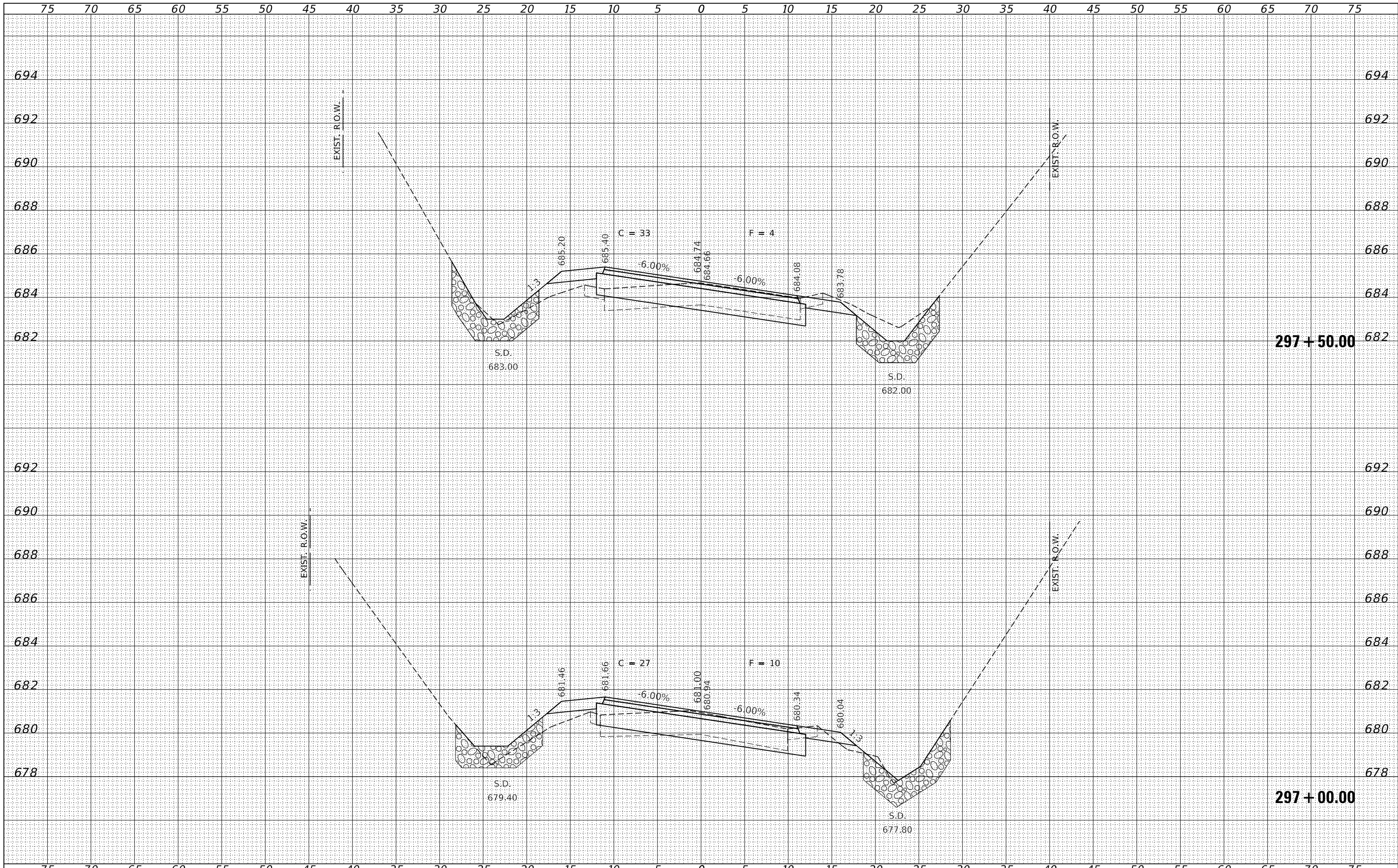
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
410	17-00137-00-BR	WARREN	51	48
PRICE BRIDGE			CONTRACT NO. 89760	
ILLINOIS FED. AID PROJECT 09H(138)				



296 + 50.00

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS	
AREAS CHECKED	
NO.	



FILE NAME = 180027-shl-xssheets.dgn
 USER NAME = rmosck
 DESIGNED - J.W.F.
 DRAWN - T.W.K.
 CHECKED - S.W.M.
 DATE - 03/02/2022

REVISIONS:
 REVISED -
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 REVISED -

STATE OF ILLINOIS
 WARREN COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS
 C.H. 4 / FAS 410
 SCALE: 5H:2V
 SHEET NO. 15 OF 17 SHEETS
 STA. 297+00.00 TO STA. 297+50.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
410	17-00137-00-BR	WARREN	51	49
PRICE BRIDGE			CONTRACT NO. 89760	
ILLINOIS FED. AID PROJECT 09H(138)				

DATE	
BY	
FINISHED SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

DATE	
BY	
ORIGINAL SURVEY	
PLOTTED	
TEMPLATE	
AREAS CHECKED	
NO.	

