

# PLANS FOR PROPOSED BRIDGE REPLACEMENT LOCAL BRIDGE FORMULA PROGRAM

T.R. 18C / 400E ROAD  
ERICKSON BRIDGE  
PROPOSED STRUCTURE NO. 053-4219  
SECTION 17-15128-00-BR  
PROJECT DU05(738)  
LIVINGSTON COUNTY  
C-93-010-24

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
T.R. 18C	17-15128-00-BR	LIVINGSTON	23	1
FED. ROAD DIST. NO. 7		ILLINOIS	CONTRACT NO. 87823	



LOCATION OF SECTION INDICATED THIS: - - -

**ILLINOIS DEPARTMENT OF TRANSPORTATION**

APPROVED 3/28 20 24  
*Clay Metcalfe*  
COUNTY ENGINEER

APPROVED 3/27 20 24  
*Keth Brown*  
TOWNSHIP COMMISSIONER

PASSED April 12 20 24  
*[Signature]*  
DISTRICT THREE ENGINEER OF LOCAL ROADS & STREETS

Releasing For Bid Based on Limited Review  
April 12 20 24  
*Trisha Thompson*  
REGION TWO ENGINEER

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DATE: 03/25/2024  
*[Signature]*  
LICENSED PROFESSIONAL ENGINEER  
STATE OF ILLINOIS  
EXPIRES: 11/30/2025

**HAMPTON, LENZINI AND RENWICK, INC.**  
CIVIL ENGINEERS - STRUCTURAL ENGINEERS - LAND SURVEYORS  
3085 STEVENSON DRIVE, SUITE 201  
SPRINGFIELD, ILLINOIS 62703  
217.546.3400 www.hlrengineering.com  
184.000959  
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION

**INDEX OF SHEETS**

SHEET NO.	DESCRIPTION
1.	COVER SHEET
2.	SUMMARY OF QUANTITIES AND GENERAL NOTES
3.	SCHEDULE OF QUANTITIES
4.	TYPICAL CROSS SECTIONS
5.	PLAN AND PROFILE
6-14.	BRIDGE PLANS
15-23.	STATION CROSS SECTIONS

HIGHWAY STANDARDS:

000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-04	NAME PLATE FOR BRIDGES
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
701901-09	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS

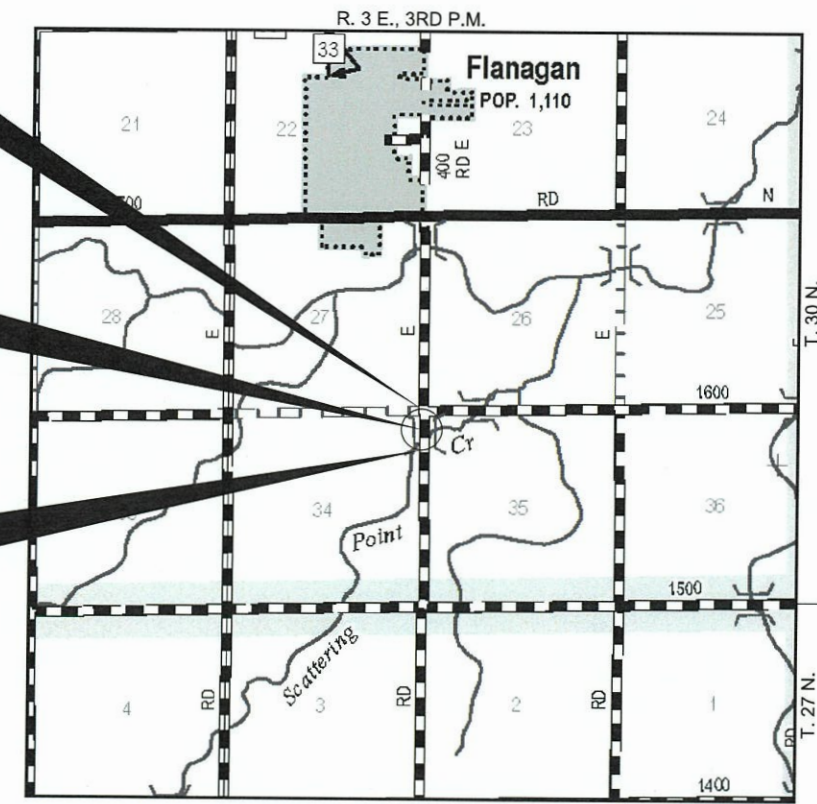
**UTILITIES**

- AMEREN (NORTH)  
6 EXECUTIVE DRIVE  
COLLINSVILLE, IL 62234
- FRONTIER COMMUNICATIONS  
109 E. MARKET STREET  
BLOOMINGTON, IL 61705
- CIRBN LLC  
200 W FRONT ST.  
BLOOMINGTON, IL 61701
- NICOR GAS  
1305 MARTIN LUTHER KING DR.  
BLOOMINGTON, IL 61701

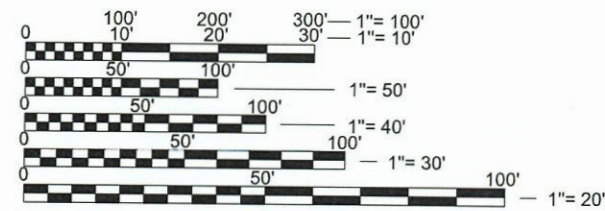
STA. 10+02  
PRECAST PRESTRESSED CONCRETE DECK BEAM BRIDGE.  
SINGLE SPAN @ 60'-0"  
27'-0" RDWY.; SKEW = 20°  
EXISTING STRUCTURE NO. 053-3096  
PROPOSED STRUCTURE NO. 053-4219

IMPROVEMENT ENDS  
STATION 12+40

IMPROVEMENT BEGINS  
STATION 7+40



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.

APPROXIMATE SCALE: 0 1/2 MILE  
NET LENGTH OF SECTION = 500 FEET = 0.095 MILES  
FUNCTIONAL CLASSIFICATION: LOCAL ROAD  
DESIGN SPEED = 40 MPH  
DESIGN TRAFFIC = 300 ADT  
3R DESIGN GUIDELINES ARE USED

**WARNING**

CALL 811  
BEFORE YOU DIG  
DIG NO: X231021143

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	CONSTRUCTION TYPE CODE 0010	
		UNIT	TOTAL QUANTITY
20200100	EARTH EXCAVATION	CU YD	260
20300100	CHANNEL EXCAVATION	CU YD	285
28100107	STONE RIPRAP, CLASS A4	SQ YD	369
28200200	FILTER FABRIC	SQ YD	369
35100100	AGGREGATE BASE COURSE, TYPE A	TON	751
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	2,200
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	220
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	135
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	85
48101200	AGGREGATE SHOULDERS, TYPE B	TON	118
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	24.4
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	1,620
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	3,160
* 50900205	STEEL RAILING, TYPE S1	FOOT	119
51201400	FURNISHING STEEL PILES HP10X42	FOOT	315
51202305	DRIVING PILES	FOOT	315
51203400	TEST PILE STEEL HP10X42	EACH	1
51500100	NAME PLATES	EACH	1
542D0220	PIPE CULVERTS, CLASS D, TYPE 1 15"	FOOT	204
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	2
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	106
67100100	MOBILIZATION	L SUM	1
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
X2070302	POROUS GRANULAR EMBANKMENT, SPECIAL	TON	90
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.3

\* SPECIALTY ITEMS

### GENERAL NOTES

- 1) ALL CLEARING, GRUBBING, FENCE REMOVAL, PAVEMENT REMOVAL, AND REMOVAL OF EXISTING DRAINAGE STRUCTURES INCLUDING EXISTING PIPE CULVERTS, 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.
- 2) WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
- 3) ANY REFERENCE TO STANDARDS THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE INTERPRETED TO BE THE LATEST STANDARD OF THE DEPARTMENT.
- 4) 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.
- 5) THE CONTRACTOR SHALL CONSULT THE ENGINEER IN REGARD TO THE EXACT LENGTH OF PIPE CULVERTS AND PIPE DRAINS BEFORE ORDERING THESE ITEMS.
- 6) THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES

AGGREGATE BASE COURSE	2.05 TON/CU YD
AGGREGATE SHOULDERS	2.05 TON/CU YD
POROUS GRANULAR EMBANKMENT	2.0 TON/CU YD
HOT MIX ASPHALT	112.0 LB/SY/IN

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
- 7) THE FINAL SURFACE OF ALL EMBANKMENT AREAS SHALL BE SEEDED. THE TOP 4 INCHES OF THE SEEDER AREAS SHALL BE TOPSOIL SUBJECT TO THE APPROVAL OF THE ENGINEER. THE COST OF SHAPING THE SLOPES AND PROVIDING TOP SOIL WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF EARTH EXCAVATION.
- 8) THE AREA TO BE SEEDER SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER.

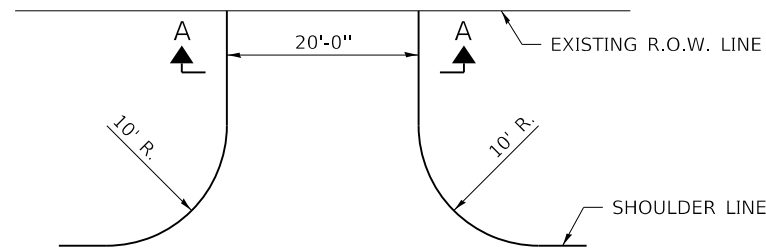
SEEDING, CLASS 2 (SPECIAL) =	0.3 ACRES
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- 9) ALL WASTE MATERIAL FROM EXCAVATIONS SHALL BE DISPOSED OF BY THE CONTRACTOR. NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

ROADWAY SCHEDULE						
LOCATION	AGGREGATE BASE COURSE, TYPE A	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	HOT-MIX ASPHALT BINDER COURSE, IL- 19.0, N50	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C",	AGGREGATE SHOULDERS, TYPE B
	35100100	40600275	40600290	40603080	40604050	48101200
TR 18C / 400E	TON	POUND	POUND	TON	TON	TON
STA. 7+40.00 TO STA. 9+71.29	388	1160	115	70	45	60
STA. 10+32.71 TO STA. 12+40.00	348	1040	105	65	40	58
ENTRANCES	15	-	-	-	-	-
<b>TOTAL</b>	<b>751</b>	<b>2200</b>	<b>220</b>	<b>135</b>	<b>85</b>	<b>118</b>

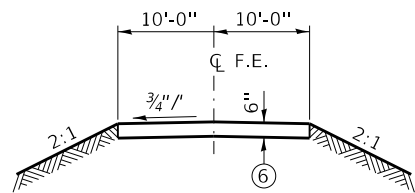
EARTHWORK SCHEDULE							
LOCATION	EARTH EXCAVATION	CHANNEL EXCAVATION	SHRINKAGE FACTOR	PERCENT USED	EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT REQUIRED	EARTHWORK BALANCE
	CU.YD.	CU.YD.			CU.YD.	CU.YD.	CU.YD.
TR 18C / 400E							
STA. 7+40.00 TO STA. 9+71.29	152		25.00%	100.00%	114	100	14
STA. 9+71.29 TO STA. 10+32.71		285	25.00%	70.00%	150		150
STA. 10+32.71 TO STA. 12+40.00	108		25.00%	100.00%	81	80	1
ENTRANCE STA. RT. 8+90						16	-16
<b>TOTAL</b>	<b>260</b>	<b>285</b>			<b>345</b>	<b>196</b>	<b>149</b>
USE	260	285					150

WASTE 150 CU YDS

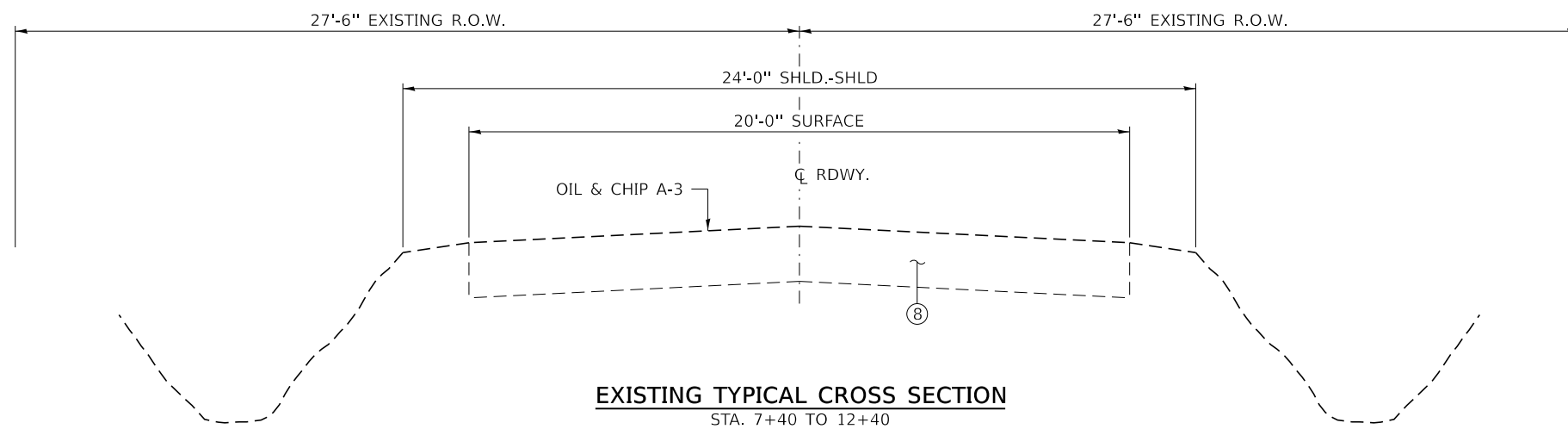
HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
LOCATIONS(S)	TR 18C / 400 E	TR 18C / 400 E
MIXTURE USE(S):	HMA BINDER	HMA SURFACE
PG:	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4% @ 50 Gyr.	4% @ 50 Gyr.
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL 19.0	IL 9.5
FRICTION AGGREGATE:	NONE	MIXTURE C
MIXTURE WEIGHT:	112 LB/SY/IN	112 LB/SY/IN
QUALITY MANAGEMENT PROGRAM	QC/QA	QC/QA
SUBLOT SIZE	NA	NA
DENSITY TEST METHOD	CORES/NUCLEAR	CORES/NUCLEAR
MATERIAL TRANSFER DEVICE (REQUIRED)	NO	NO



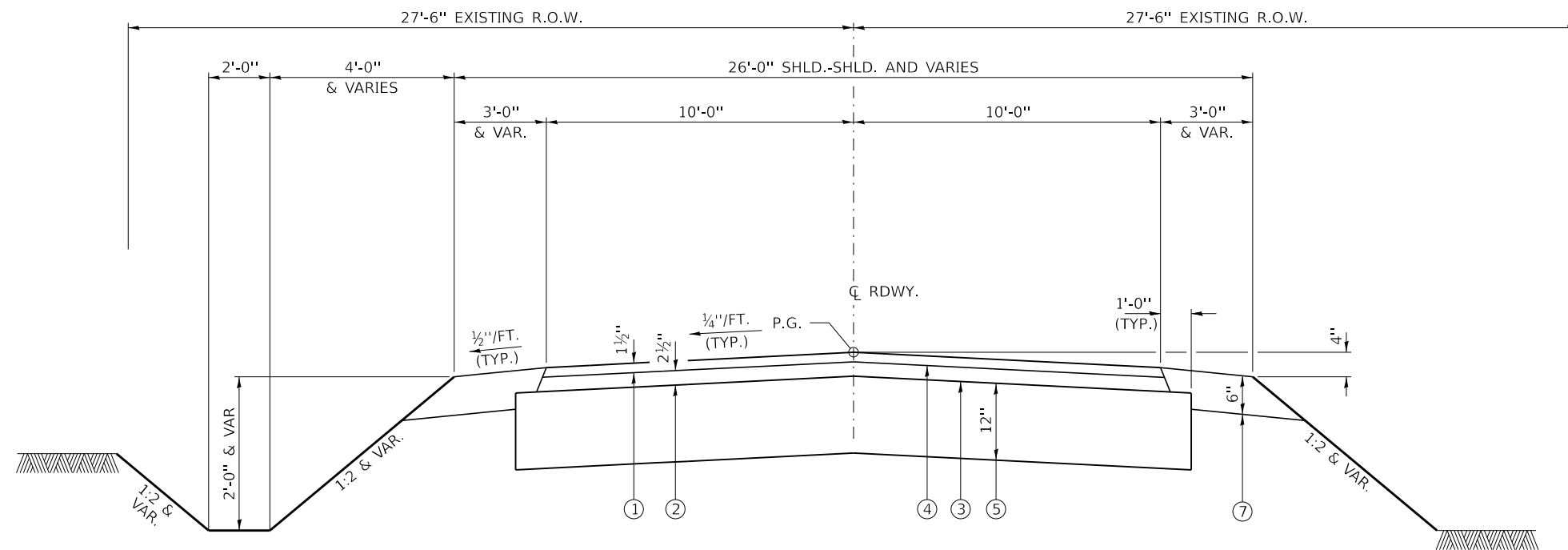
**FIELD ENTRANCE DETAIL**  
STA. 8+90 RT.



**SECTION A-A**



**EXISTING TYPICAL CROSS SECTION**  
STA. 7+40 TO 12+40



**PROPOSED TYPICAL CROSS SECTION**  
STA. 7+40 TO 12+40

SUGGESTED CUT SECTION  
CONSTRUCT AS SHOWN IN  
STATION CROSS SECTIONS

BRIDGE OMISSION STA. 9+71.29 TO 10+32.71  
TRANSITIONS FROM THE PROPOSED ROADWAY TO THE EXISTING  
ROADWAY ARE TO BE CONSTRUCTED FROM STA. 7+40 TO 7+90  
AND STA. 11+90 TO STA. 12+40. SEE SHEET 5 FOR TRANSITION  
AT BRIDGE.

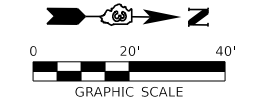
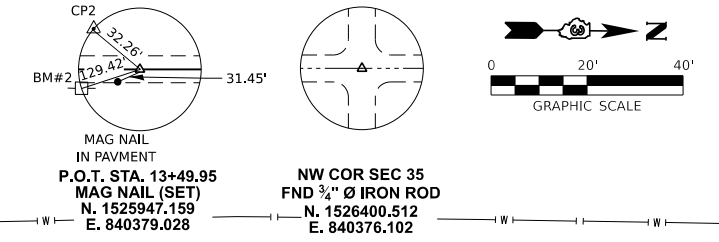
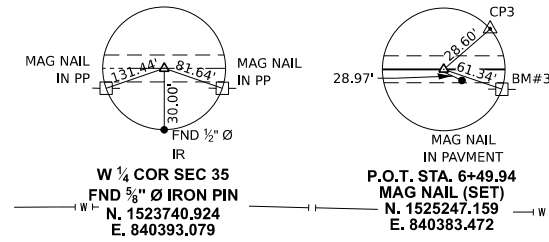
SUGGESTED FILL SECTION  
CONSTRUCT AS SHOWN IN  
STATION CROSS SECTIONS

**LEGEND**

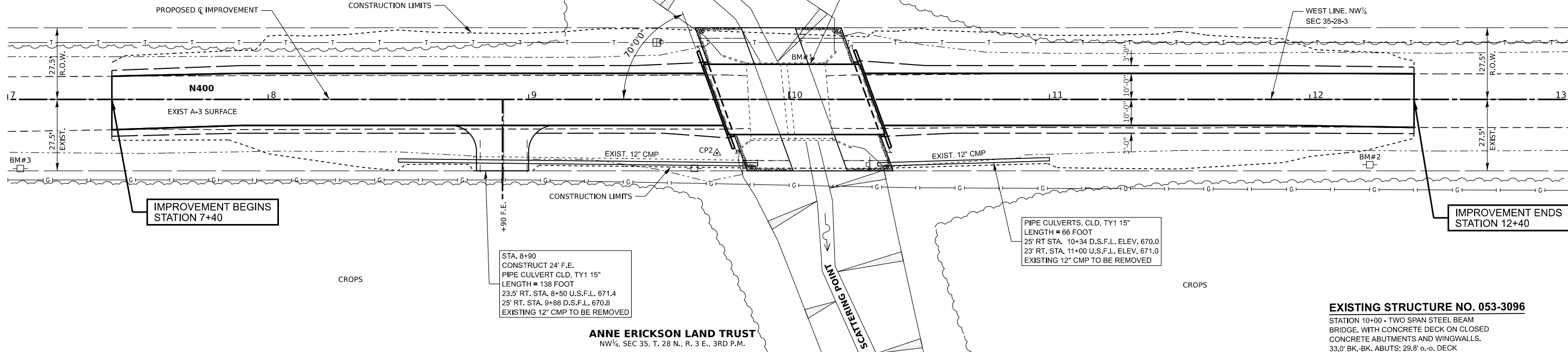
- ① HMA SURFACE COURSE, IL-9.5, MIX C, N50 (1½" THICKNESS)
- ② HMA BINDER COURSE, IL-19.0, N50 (2½" THICKNESS)
- ③ BITUMINOUS MATERIALS (PRIME COAT)
- ④ BITUMINOUS MATERIALS (TACK COAT)
- ⑤ AGGREGATE BASE COURSE, TYPE A (12")
- ⑥ AGGREGATE BASE COURSE, TYPE A (6")
- ⑦ AGGREGATE SHOULDERS, TYPE B (6")
- ⑧ EXISTING AGGREGATE BASE COURSE

FILE NAME = 210431-sh1-typsec10ns.dgn	USER NAME = gmetcalf	DESIGNED - J.R.B.	REVISED -	<b>STATE OF ILLINOIS LIVINGSTON COUNTY HIGHWAY DEPARTMENT</b>	<b>TYPICAL CROSS SECTIONS</b>	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3088 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = \$SCALES	DRAWN - D.M.F.	REVISED -			18C	17-15128-00-BR	LIVINGSTON	23	4	
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT DATE = 3/25/2024	CHECKED - S.T.M.	REVISED -			NEBRASKA ROAD DISTRICT		CONTRACT NO. 87823			
		DATE - 03/25/2024	REVISED -			SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA. 7+40 TO	STA. 12+40	ILLINOIS FED. AID PROJECT DU05(738)	

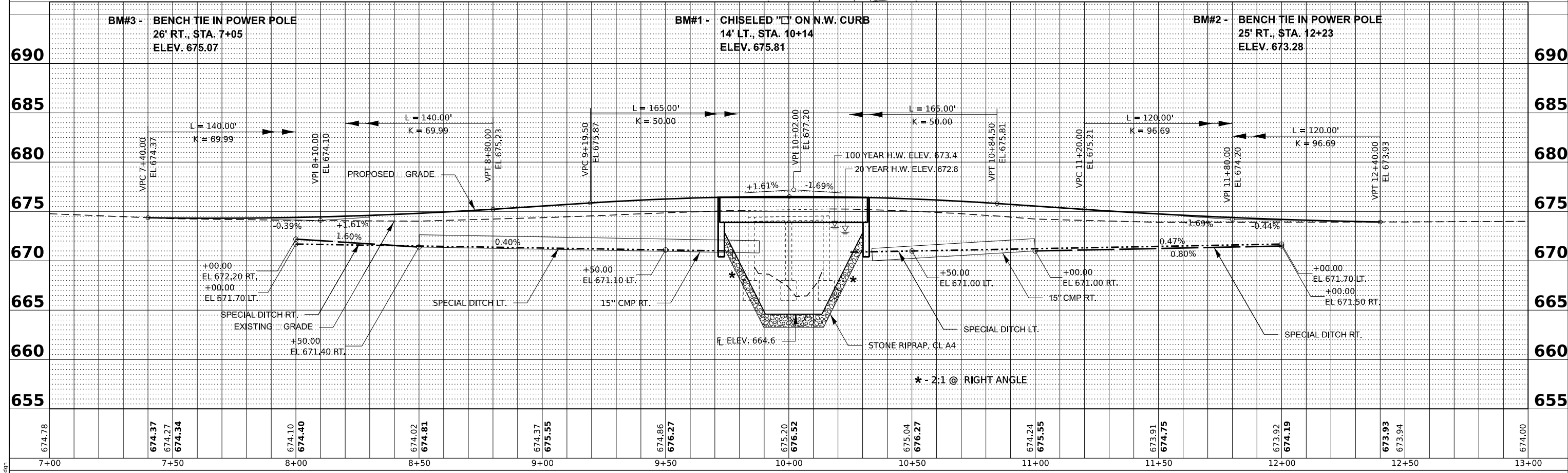
PAUL M. & WILMA J. ZEHR  
NE 1/4, SEC 34, T. 28 N., R. 3 E., 3RD P.M.



DATE	
BY	
PLAN	
NO.	
NO.	
NO.	



DATE	
BY	
PROFILE	
NO.	
NO.	
NO.	



STATE OF ILLINOIS  
LIVINGSTON COUNTY HIGHWAY DEPARTMENT

PLAN AND PROFILE  
ERICKSON BRIDGE

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
18C	17-15128-00-BR	LIVINGSTON	23	5
NEBRASKA ROAD DISTRICT		CONTRACT NO. 87823		

HAMPTON, LENZINI AND RENWICK, INC.  
200 STEVENSON DRIVE, SUITE 200  
SPRINGFIELD, ILLINOIS 62703  
ILLINOIS PROFESSIONAL ENGINEERING NO. 020201  
L.S. / P.E. / S.E. CORP. 184.000059

USER NAME	gmctcalf	DESIGNED	S.S.A.	REVISED	-
DRAWN	T.W.K.	DRAWN	T.W.K.	REVISED	-
CHECKED	J.W.F.	CHECKED	J.W.F.	REVISED	-
DATE	03/25/2024	DATE	03/25/2024	REVISED	-

SCALE: 1"=20' SHEET 1 OF 1 SHEETS STA. 7+00.00 TO STA. 13+00.00

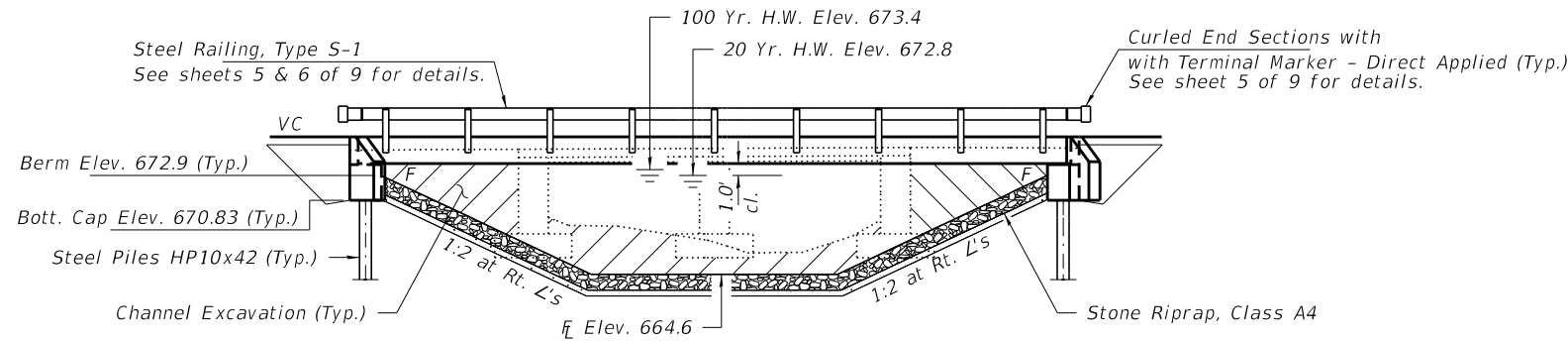
MODEL: SPODELNAMES  
FILE NAME: 210431-PlanProfile.dgn

BENCHMARK: - Chisled "□" on NW curb, 14 Lt., Sta. 10+14, Elev. 675.81

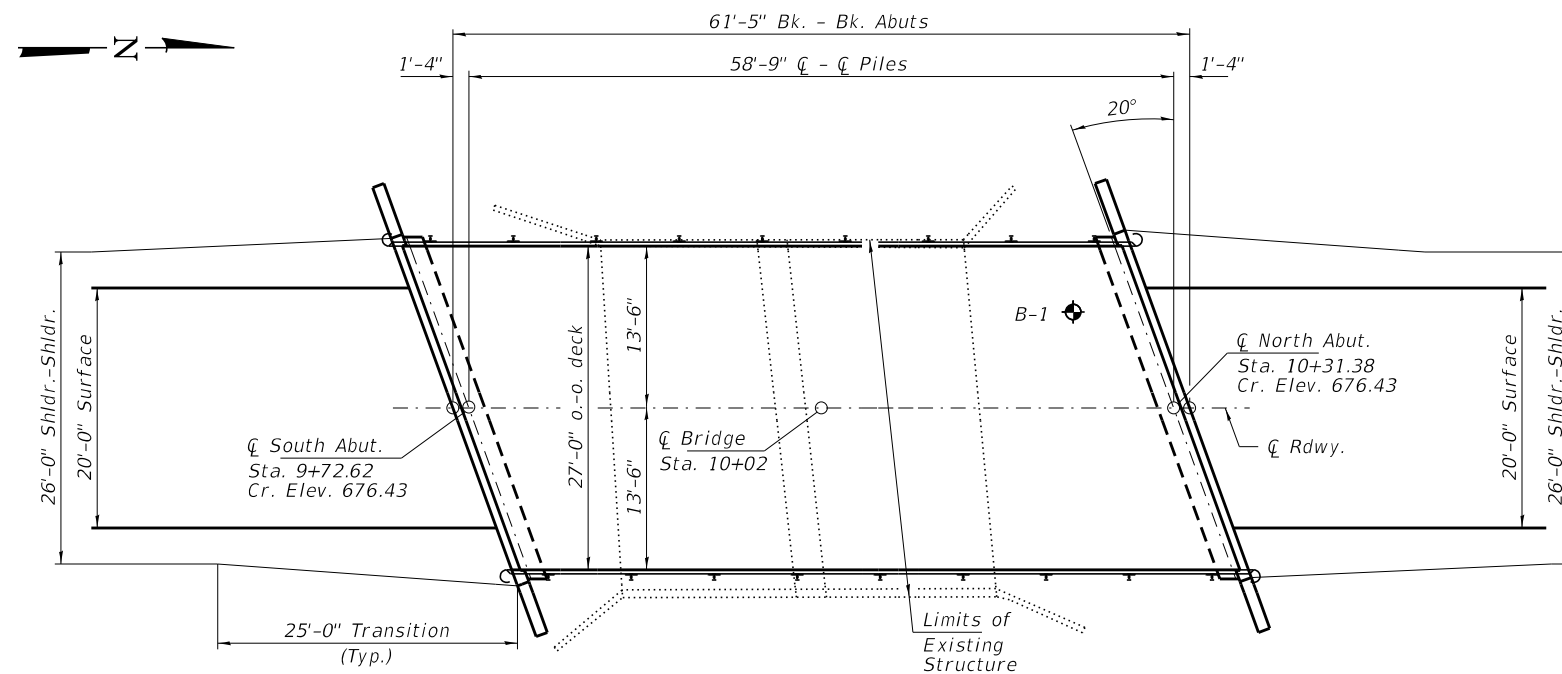
EXISTING STRUCTURE NO. 053-3069: - Sta. 10+00 - Two span steel beam bridge with concrete deck on closed concrete abutments and wingwalls. 33.0' bk-bk abuts.; 29.8' o-o deck

Structure closed to traffic during construction.

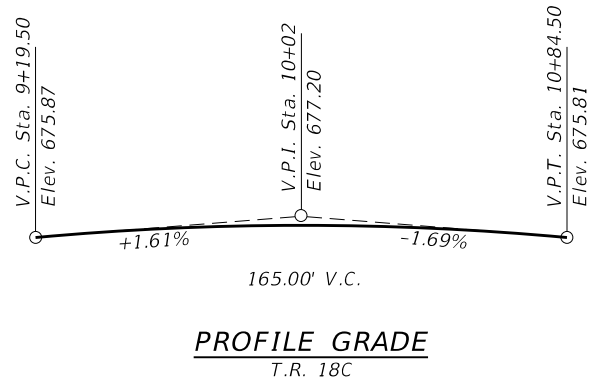
No Salvage.



ELEVATION



PLAN



GENERAL NOTES

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.  
The Contractor shall drive test piles to 110% of the nominal required bearing specified in production locations at the South Abutment or approved by the Engineer before ordering the remainder of piles.  
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.  
All proposed construction activities shall be in accordance with Nationwide Permit number 14 of the Department of the Army authorized under Section 404 of the Clean Water Act.  
The IEPA has issued Section 401 Water Quality Certification for this activity. See Special Provisions for conditions.

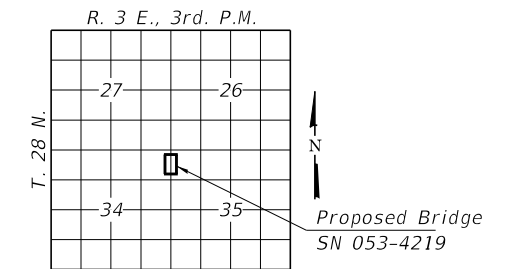
INDEX OF STRUCTURE SHEETS

1. General Plan & Elevation
2. General Details
3. 27"x36" PPC Deck Beam
4. 27"x36" PPC Deck Beam Details
5. Superstructure Details
6. Steel Railing, Type S-1
7. Abutments
8. Steel HP Pile Details
9. Borings

SCATTERING POINT CREEK  
BUILT 202\_ BY  
LIVINGSTON COUNTY  
SEC. 17-15128-00-BR  
NEBRASKA ROAD DISTRICT  
ERICKSON BRIDGE  
STR. NO. 053-4219 LOADING HL-93

NAME PLATE

See Std. 515001



LOCATION SKETCH

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition with all interims.

LOADING HL-93

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

DESIGN STRESSES

FIELD UNITS

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

PRECAST PRESTRESSED UNITS

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

WATERWAY INFORMATION

Drainage Area = 5.2 Sq. Mi. Existing Low Grade Elev. 673.9 at Sta. 12+00 Proposed Low Grade Elev. 673.9 at Sta. 12+00

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. Head - Ft.			Headwater El.	
			Exist.	Prop.	H.W.E.	Exist.	Prop.	Exist.	Prop.
Ten-Year	10	999	120	280	672.5	1.7	0.3	674.2	672.8
Design	20	1270	130	290	672.8	1.5	0.6	674.3	673.4
Base	100	1930	150	330	673.4	1.2	0.9	674.6	674.3
Scour Check	200	2230	150	340	673.6	1.1	0.8	674.7	674.4
Max. Calc.	500	2630	160	350	673.8	1.0	0.7	674.8	674.5

10 Year Velocity through Existing Bridge = 8.3 fps 10 Year Velocity through Proposed Bridge = 3.6 fps

DESIGN SCOUR ELEVATION TABLE

Event/Limit State	Design Scour Elev. (ft.)		Item 113
	S. Abut.	N. Abut.	
Q100	670.8	670.8	8
Q200	670.8	670.8	
Design	670.8	670.8	
Check	670.8	670.8	

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

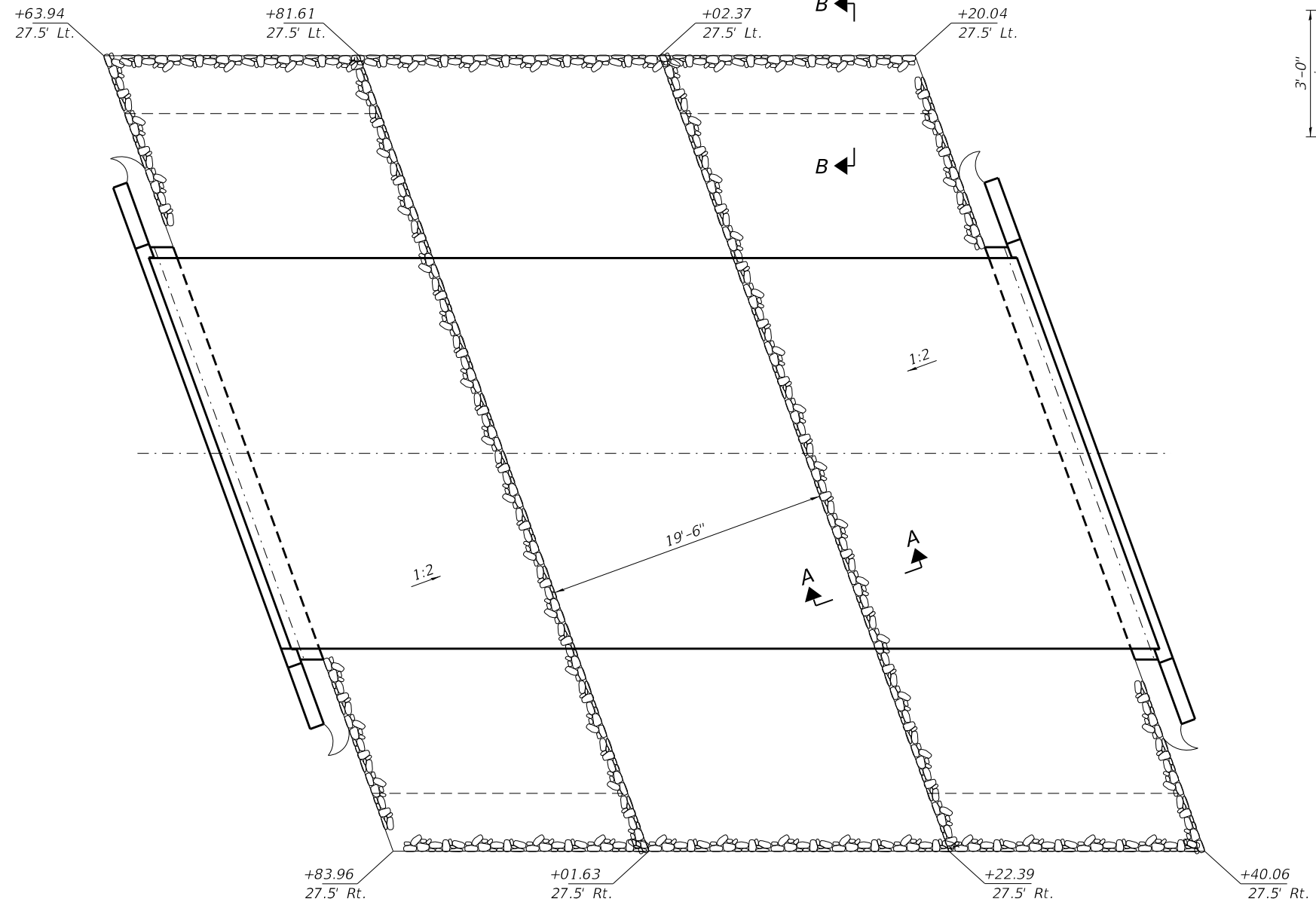
Steven W. Megginson 03/25/2024  
ILLINOIS STRUCTURAL ENGINEER NO. 081-6064



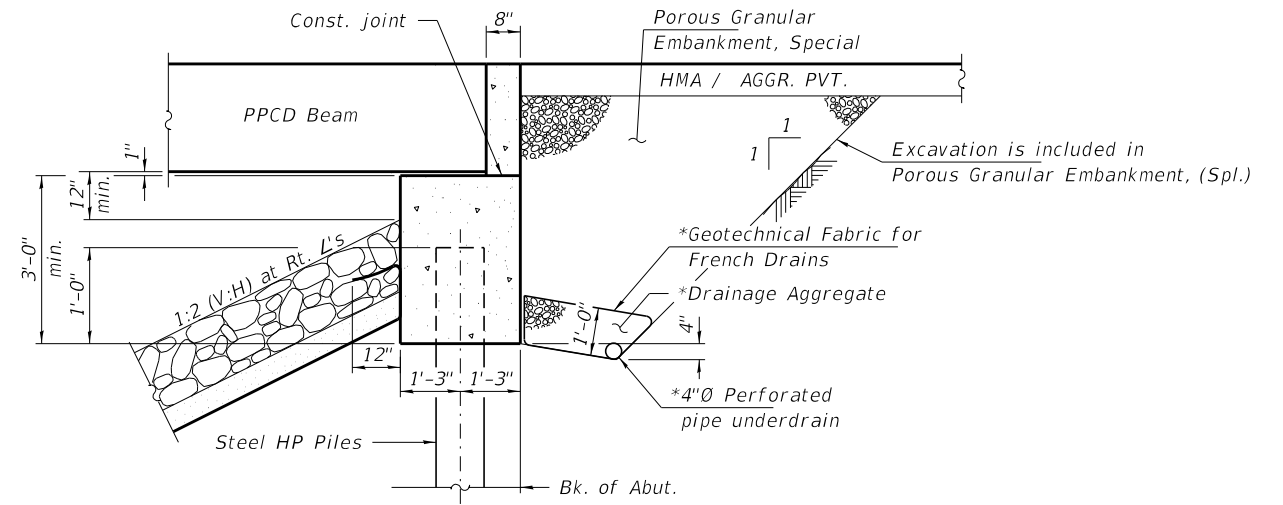
Expires 11-30-2024

GENERAL PLAN & ELEVATION  
T.R. 18C / 400E RD  
OVER SCATTERING POINT CREEK  
SECTION 17-15128-00-BR  
LIVINGSTON COUNTY  
STATION 10+02  
STRUCTURE NO. 053-4219

FILE NAME = 210431-shl-bridge.dgn	USER NAME = gmetcaif	DESIGNED - J.R.B.	REVISED -	STATE OF ILLINOIS LIVINGSTON COUNTY HIGHWAY DEPARTMENT	GENERAL PLAN & ELEVATION STRUCTURE NO. 053-4219	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.009959	PLOT SCALE =	CHECKED - S.T.M.	REVISED -			18C	17-15128-00-BR	LIVINGSTON	23	6
PLOT DATE = 3/25/2024	DRAWN - D.M.F.	CHECKED - S.T.M.	REVISED -			NEBRASKA ROAD DISTRICT	CONTRACT NO. 87823		ILLINOIS   FED. AID PROJECT DU05(738)	
						SHEET NO. 1 OF 9 SHEETS				



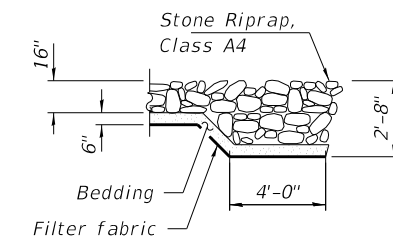
**RIPRAP PLAN**



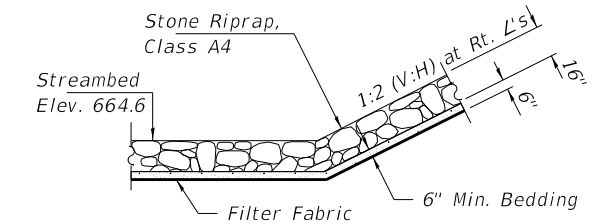
**SECTION THRU ABUTMENT**  
(Horiz. dim. at Rt. L's)

\*Included in the cost of Pipe Underdrains for Structures.

Note:  
Outlet pipe underdrains to the East only as directed by the Engineer.



**SECTION B-B**



**SECTION A-A**

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.			285
Stone Riprap, Class A4	Sq. Yd.			369
Filter Fabric	Sq. Yd.			369
Removal of Existing Structures	Each			1
Concrete Structures	Cu. Yd.		24.4	24.4
Precast Prestressed Conc. Deck Beams (27" Depth)	Sq. Ft.	1,620		1,620
Reinforcement Bars, Epoxy Coated	Pound		3,160	3,160
Steel Railing, Type S-1	Foot	119		119
Furnishing Steel Piles HP10x42	Foot		315	315
Driving Piles	Foot		315	315
Test Pile Steel HP10x42	Each		1	1
Name Plates	Each		1	1
Concrete Headwalls for Pipe Drains	Each		2	2
Pipe Underdrains for Structures 4"	Foot		106	106
Terminal Marker - Direct Applied	Each	4		4
Porous Granular Embankment, Special	Ton			90

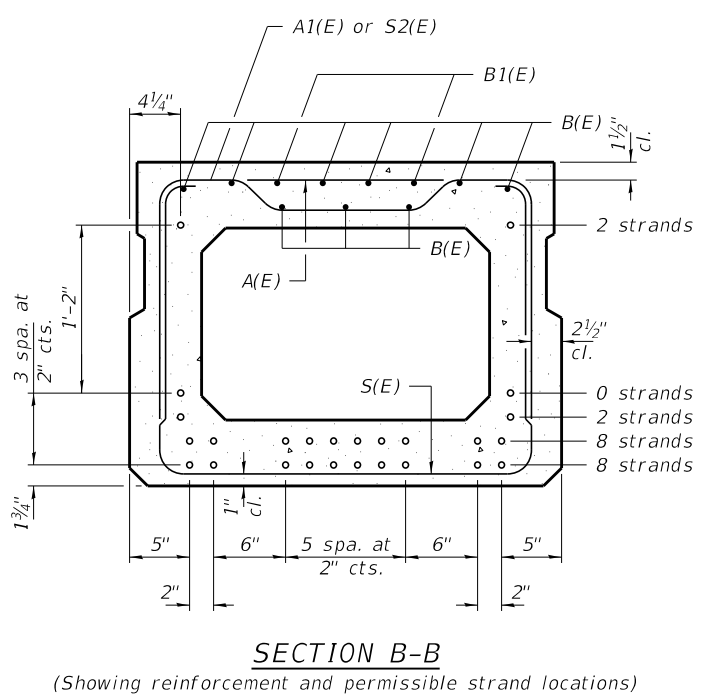
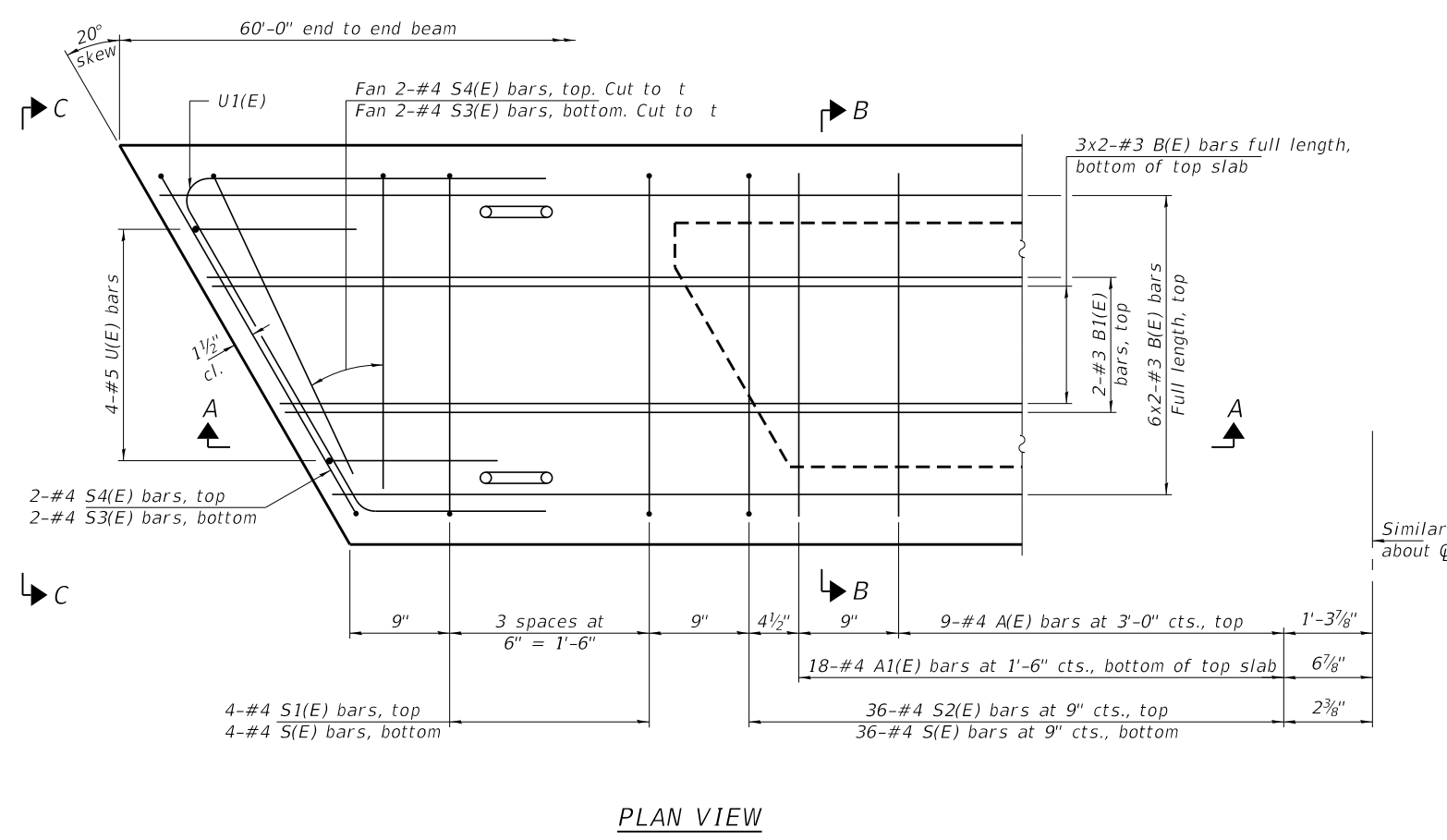
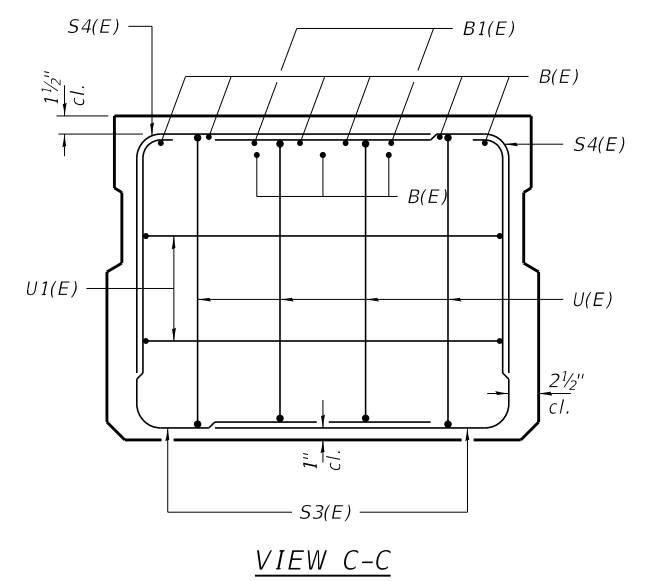
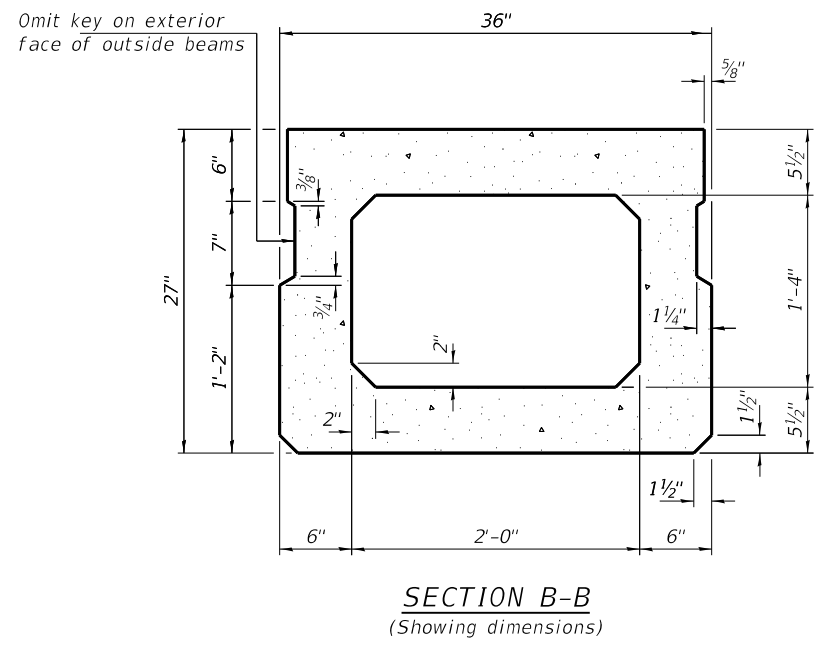
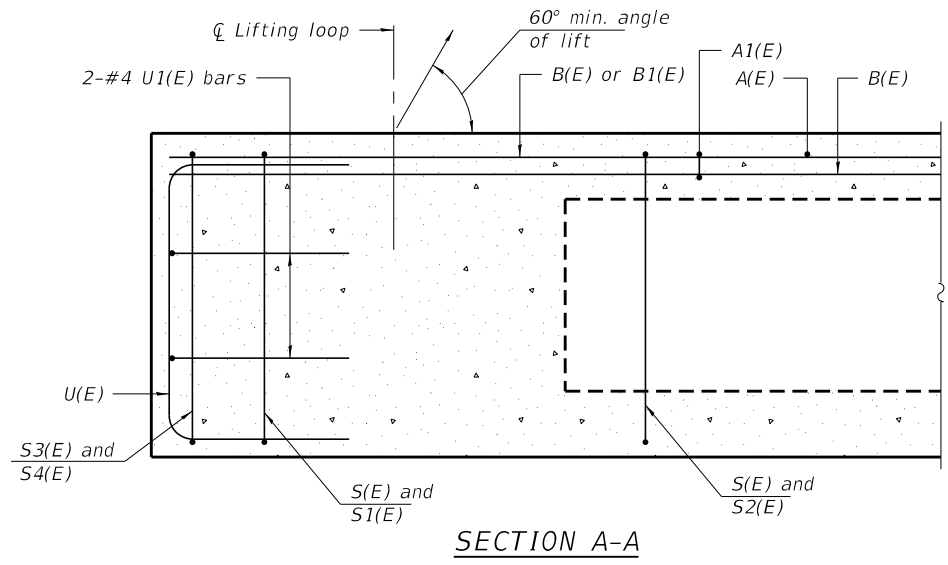
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<b>HAMPTON, LENZINI AND RENWICK, INC.</b> 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	CHECKED - S.T.M.	REVISED -
<b>HLR</b>	PLOT DATE = 3/25/2024	DRAWN - D.M.F.	REVISED -
		CHECKED - S.T.M.	REVISED -

**STATE OF ILLINOIS  
LIVINGSTON COUNTY HIGHWAY DEPARTMENT**

**GENERAL DETAILS  
STRUCTURE NO. 053-4219**

SHEET NO. 2 OF 9 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
18C	17-15128-00-BR	LIVINGSTON	23	7
NEBRASKA ROAD DISTRICT		CONTRACT NO. 87823		
ILLINOIS   FED. AID PROJECT DU05(738)				



**BAR LIST**  
**ONE BEAM ONLY**  
(For information only)

Bar	No.	Size	Length	Shape
A(E)	18	#4	2'-7"	—
A1(E)	36	#4	2'-10"	—
B(E)	18	#3	30'-8"	—
B1(E)	4	#3	10'-0"	—
S(E)	80	#4	7'-5"	⌋
S1(E)	8	#4	5'-11"	⌋
S2(E)	72	#4	6'-2"	⌋
S3(E)	8	#4	4'-9"	⌋
S4(E)	8	#4	4'-0"	⌋
U(E)	8	#5	4'-6"	⌋
U1(E)	4	#4	6'-1"	⌋

Note:  
Spacing of S(E) and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse tie diaphragms to miss the block outs for the transverse ties.  
Bars indicated thus 6x2-#3 etc. indicates 6 lines of bars with 2 lengths per line

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

**MINIMUM BAR LAP**  
#3 bar = 1'-6"

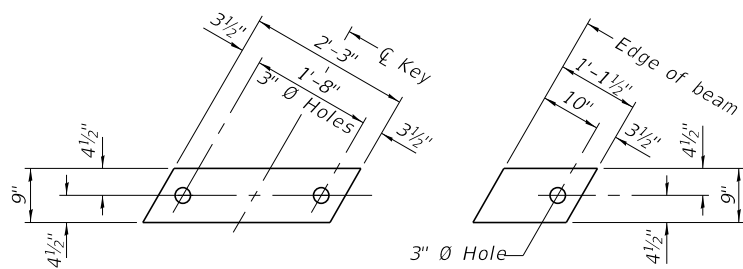
Note:  
See sheets 4 and 5 of 9 for additional details and Bill of Material.

PD-2736-R

5-15-2023

FILE NAME = 210431-shl-bridge.dgn	USER NAME = gmetca#	DESIGNED - J.R.B.	REVISED -	<b>STATE OF ILLINOIS LIVINGSTON COUNTY HIGHWAY DEPARTMENT</b>	<b>27" x 36" PPC DECK BEAM STRUCTURE NO. 053-4219</b>	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.009959	PLOT SCALE =	CHECKED - S.T.M.	REVISED -			18C	17-15128-00-BR	LIVINGSTON	23	8
PLOT DATE = 3/25/2024	DRAWN - D.M.F.	CHECKED - S.T.M.	REVISED -			NEBRASKA ROAD DISTRICT	CONTRACT NO. 87823			
						ILLINOIS FED. AID PROJECT DU05(738)				



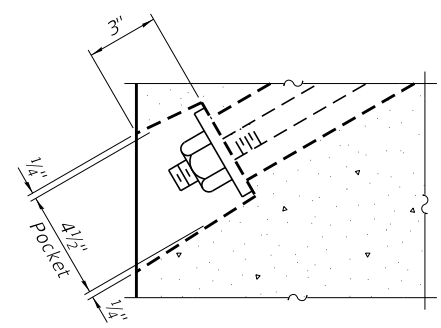


**FABRIC BEARING PAD**  
(Interior - 16 req'd)

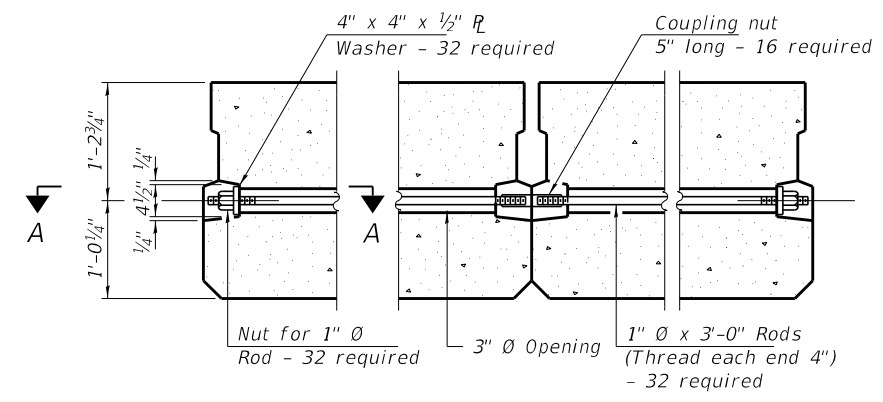
**FABRIC BEARING PAD**  
(Exterior - 4 req'd)

**FIXED**

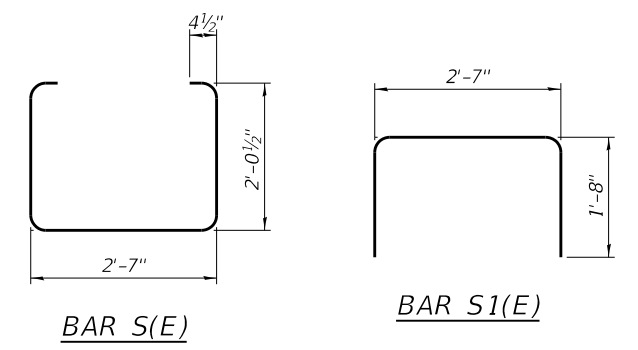
Notes:  
All bearing pads shall be 1" thick.  
Omit holes when using expansion bearings.  
Expansion bearing pads shall be bonded to the substructure.



**SECTION A-A**



**TYPICAL TRANSVERSE TIE ASSEMBLY**

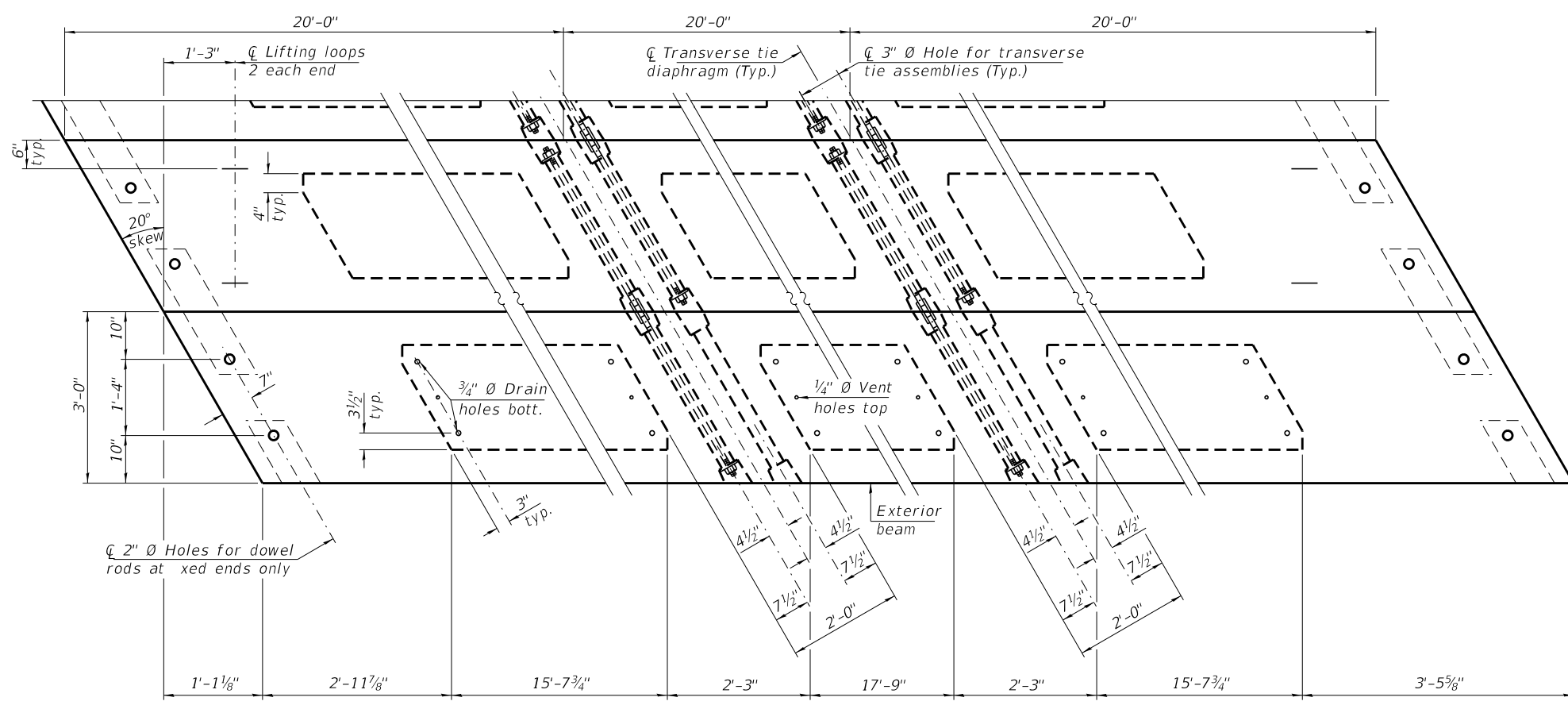


**BAR S(E)**

**BAR S1(E)**

**BAR S2(E)**

**BAR S3(E)**

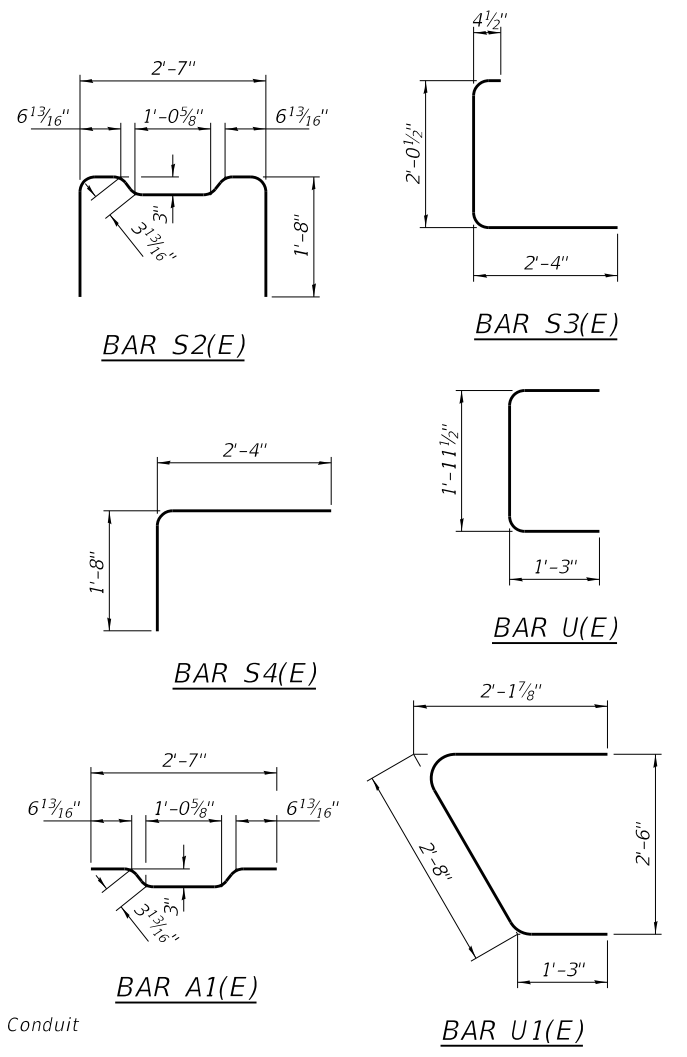


**PLAN VIEW**

**NOTES**

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

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

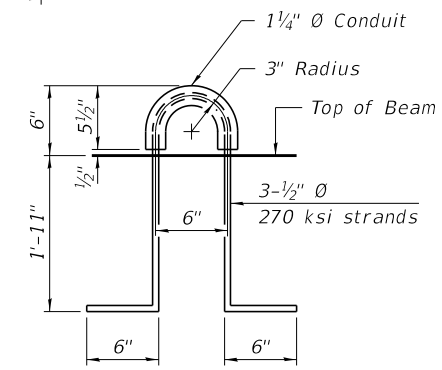


**BAR U(E)**

**BAR S4(E)**

**BAR A1(E)**

**BAR U1(E)**



**LIFTING LOOP DETAIL**

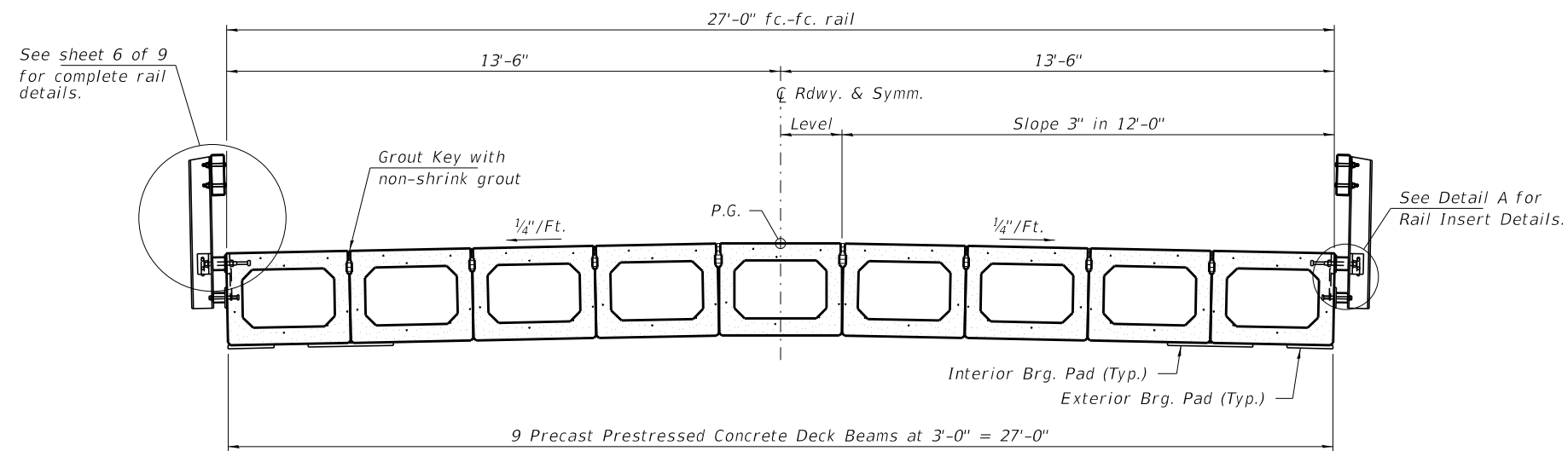
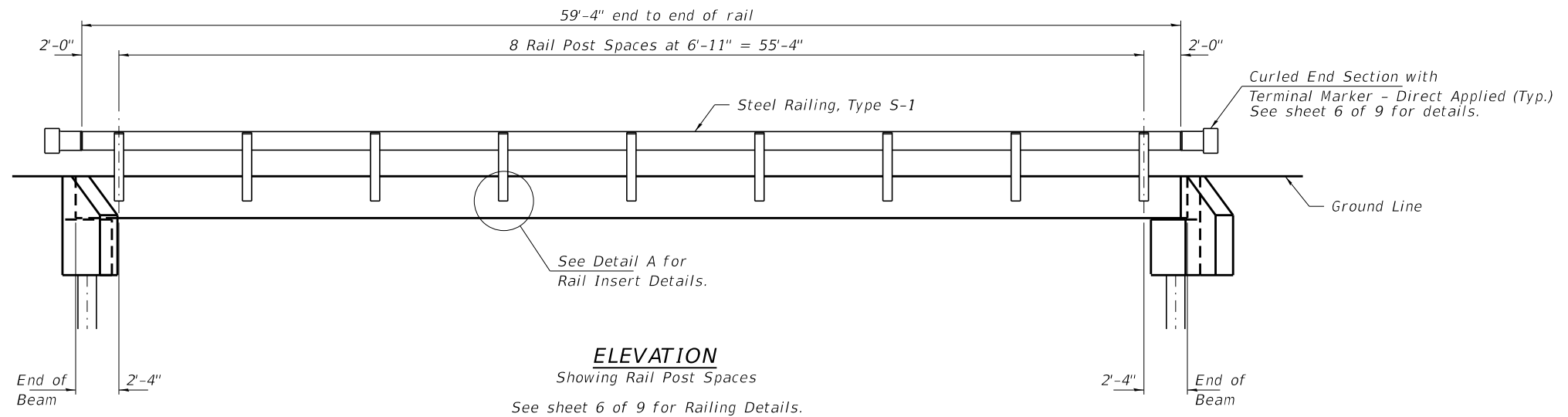
**BILL OF MATERIAL**

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft. 1,620
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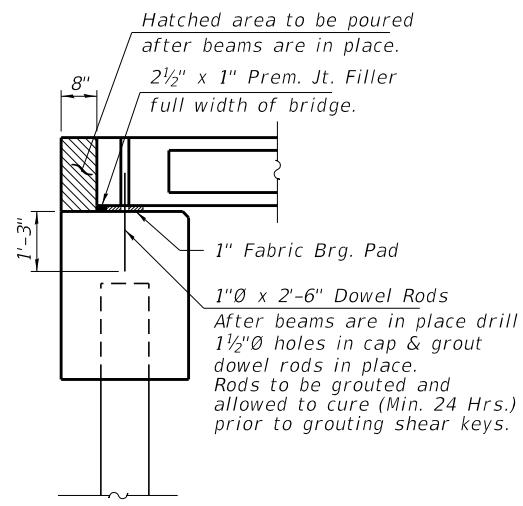
PDD-2736-R

5-15-2023

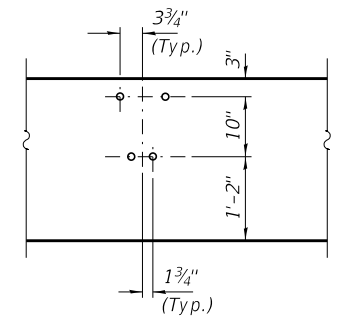
FILE NAME = 210431-shl-bridge.dgn	USER NAME = gmetcal	DESIGNED - J.R.B.	REVISED -	<b>STATE OF ILLINOIS LIVINGSTON COUNTY HIGHWAY DEPARTMENT</b>	<b>27" x 36" PPC DECK BEAM DETAILS STRUCTURE NO. 053-4219</b>	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S./P.E./S.E. CORP. 184.000959	PLOT SCALE =	CHECKED - S.T.M.	REVISED -			18C	17-15128-00-BR	LIVINGSTON	23	9
	PLOT DATE = 3/25/2024	DRAWN - D.M.F.	REVISED -			NEBRASKA ROAD DISTRICT				CONTRACT NO. 87823
		CHECKED - S.T.M.	REVISED -							ILLINOIS   FED. AID PROJECT DU05(738)



**CROSS SECTION**  
See sheets 3 & 4 of 9 for Superstructure.

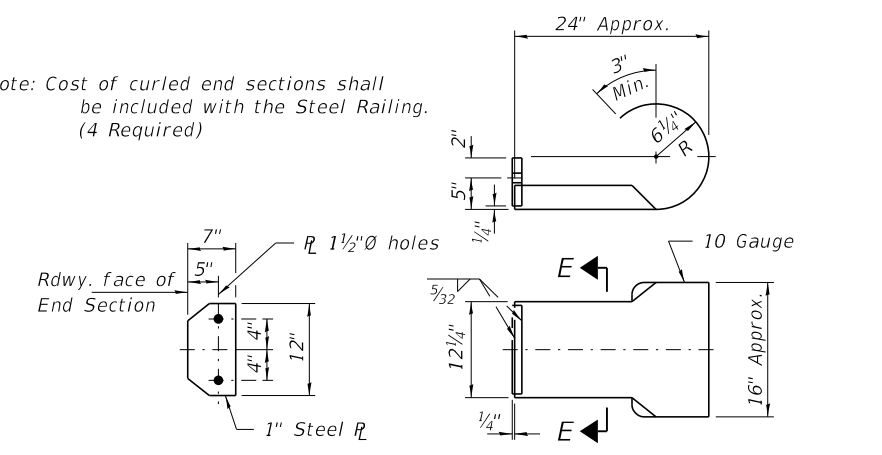


**SECTION AT ABUTMENTS**  
at Rt. L's



**DETAIL A**

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

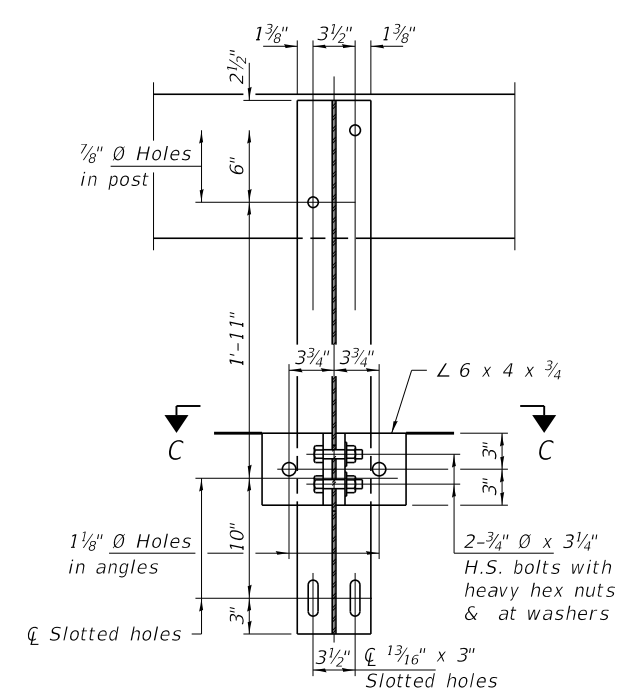


**SECTION E-E**

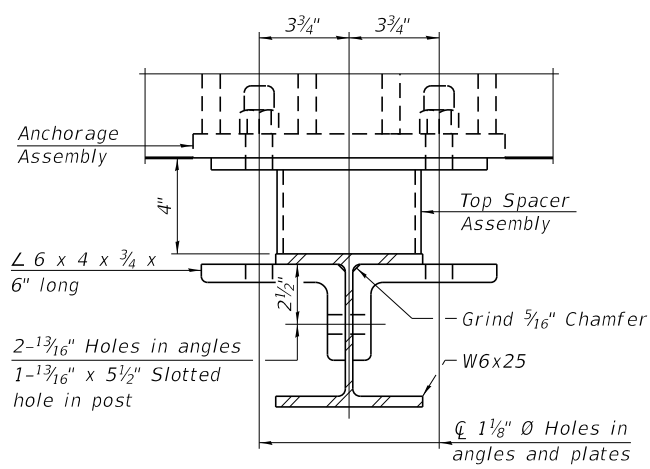
**CURLED END SECTION DETAILS**

FILE NAME = 210431-shl-bridge.dgn	USER NAME = gmetca#	DESIGNED - J.R.B.	REVISED -	<b>STATE OF ILLINOIS LIVINGSTON COUNTY HIGHWAY DEPARTMENT</b>	<b>SUPERSTRUCTURE DETAILS STRUCTURE NO. 053-4219</b>	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE =	CHECKED - S.T.M.	REVISED -			18C	17-15128-00-BR	LIVINGSTON	23	10
	PLOT DATE = 3/25/2024	DRAWN - D.M.F.	REVISED -			NEBRASKA ROAD DISTRICT		CONTRACT NO. 87823		
		CHECKED - S.T.M.	REVISED -			ILLINOIS FED. AID PROJECT DU05(738)				
SHEET NO. 5 OF 9 SHEETS										

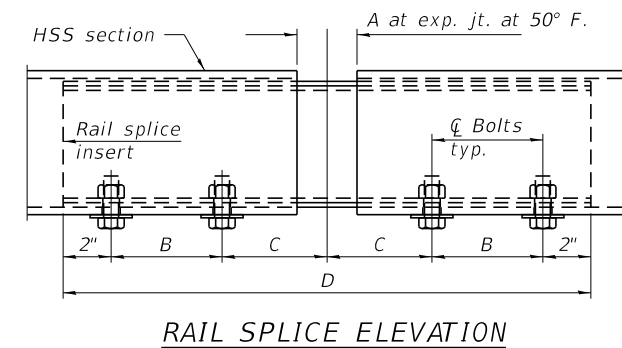
Notes:  
 A sufficient number of shims of various thicknesses, sized to fit behind the top spacer assembly, 5" x 11 1/2", and bottom spacer assembly, 6" x 7", shall be provided to adjust posts for proper alignment. If the summation of shims is greater than 1/4" (top) or 1/2" (bottom), longer bolts are required. Cost included with Steel Railing, Type S-1.  
 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.



SECTION B-B



SECTION C-C

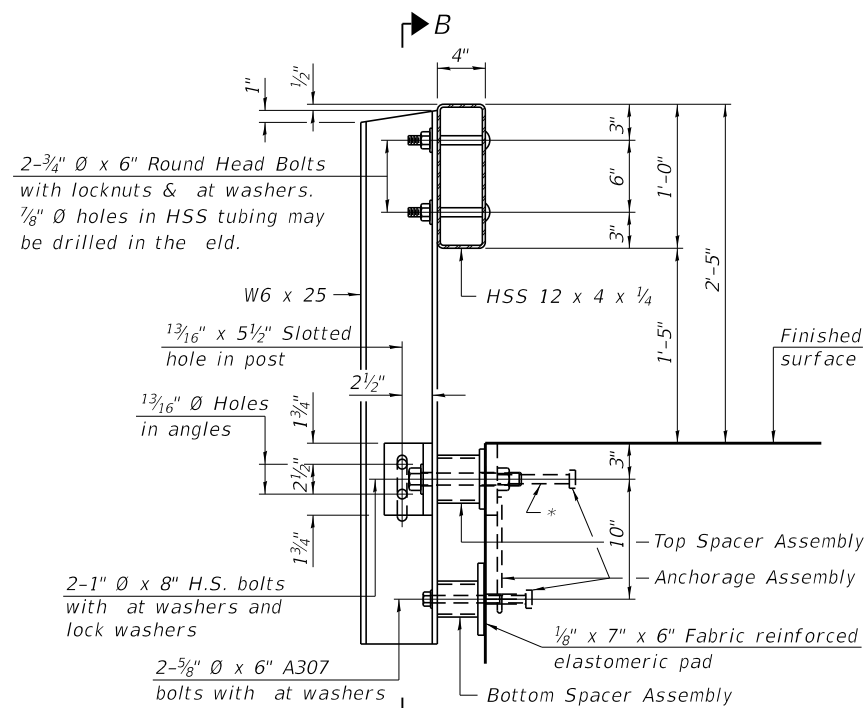


RAIL SPLICE ELEVATION

RAILING CRITERIA

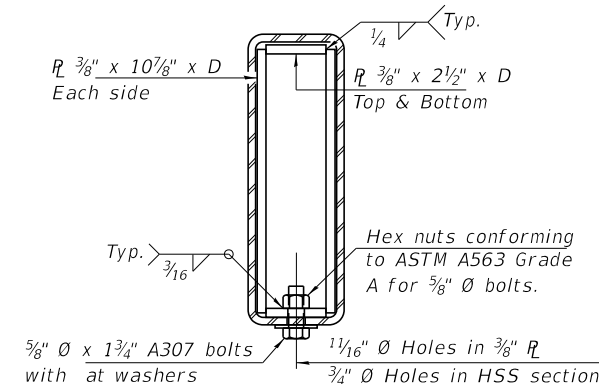
NCHRP 350 Test Level	2
Railing Weight (plf)	50
Max Post Spacing	10'-9"
HMA thickness range (in)	1 1/4" - 3 1/8"

R-23A 10-12-2021

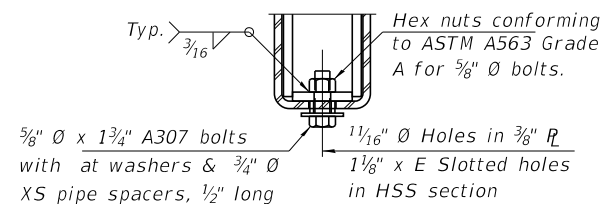


SECTION AT RAILING POST

\* The outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchorage assembly. The anchorage studs may be bent down 1/2" to accommodate the top reinforcement bar placement.



SECTION AT RAIL SPLICE

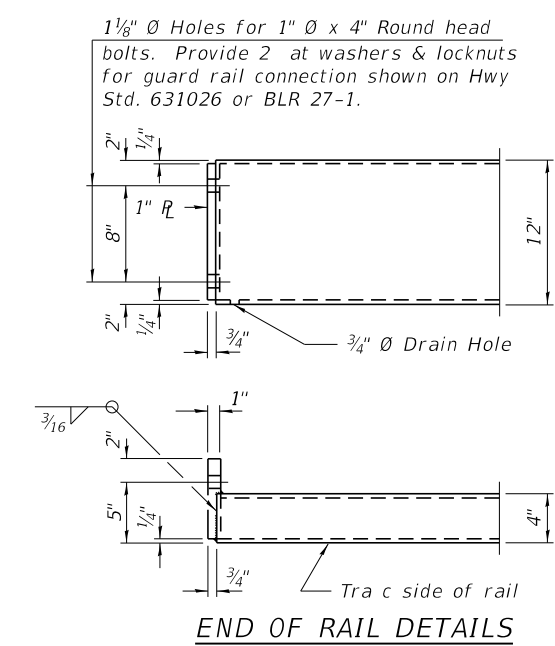


RAIL SPLICE CONNECTION AT EXPANSION JT.

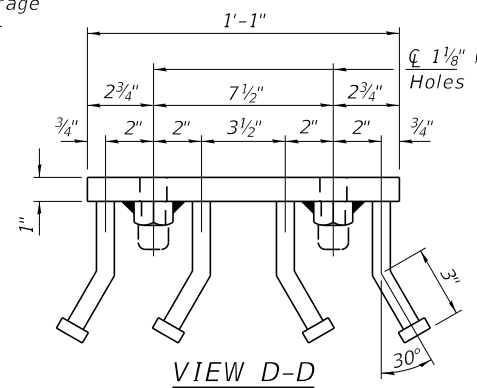
SPLICE DIMENSIONS

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"

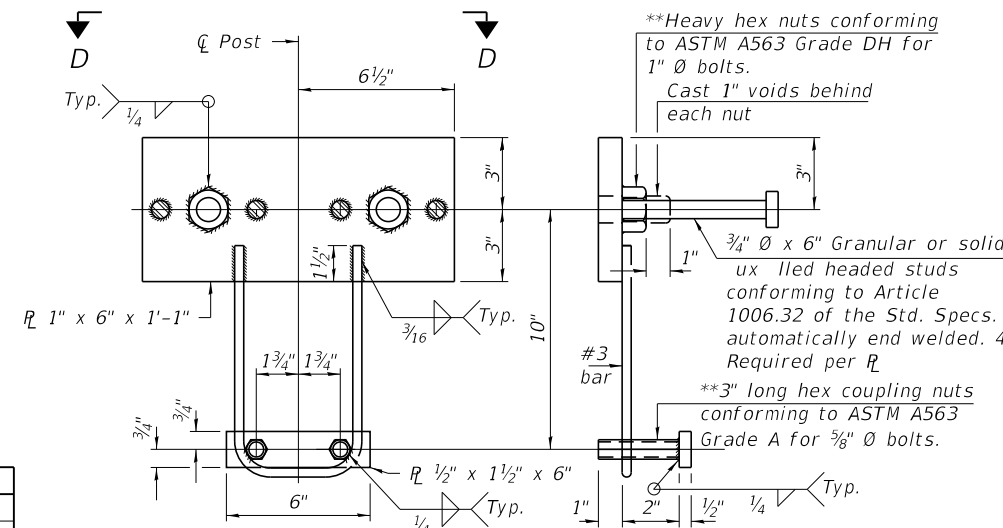
T = ; total movement along centerline of roadway at expansion joint.



END OF RAIL DETAILS

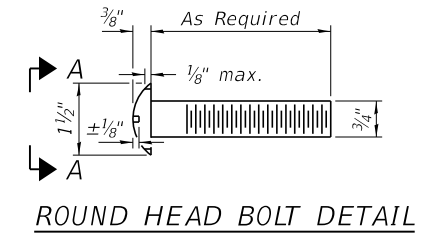


VIEW D-D

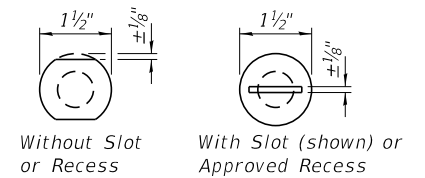


ANCHORAGE ASSEMBLY

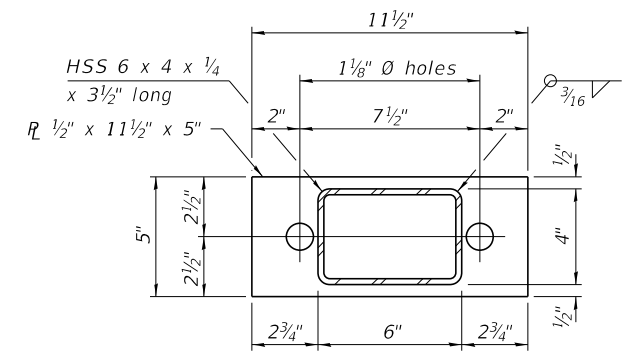
\*\* Threaded areas shall be plugged or blocked off during casting of concrete.



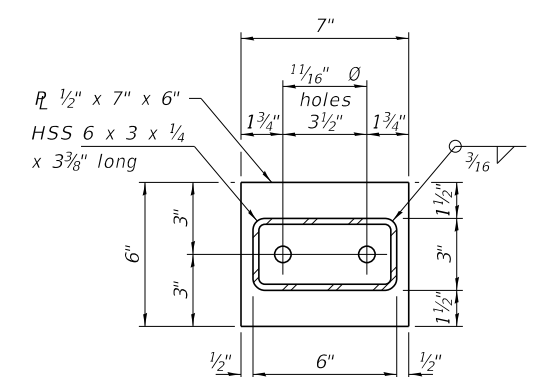
ROUND HEAD BOLT DETAIL



VIEW A-A



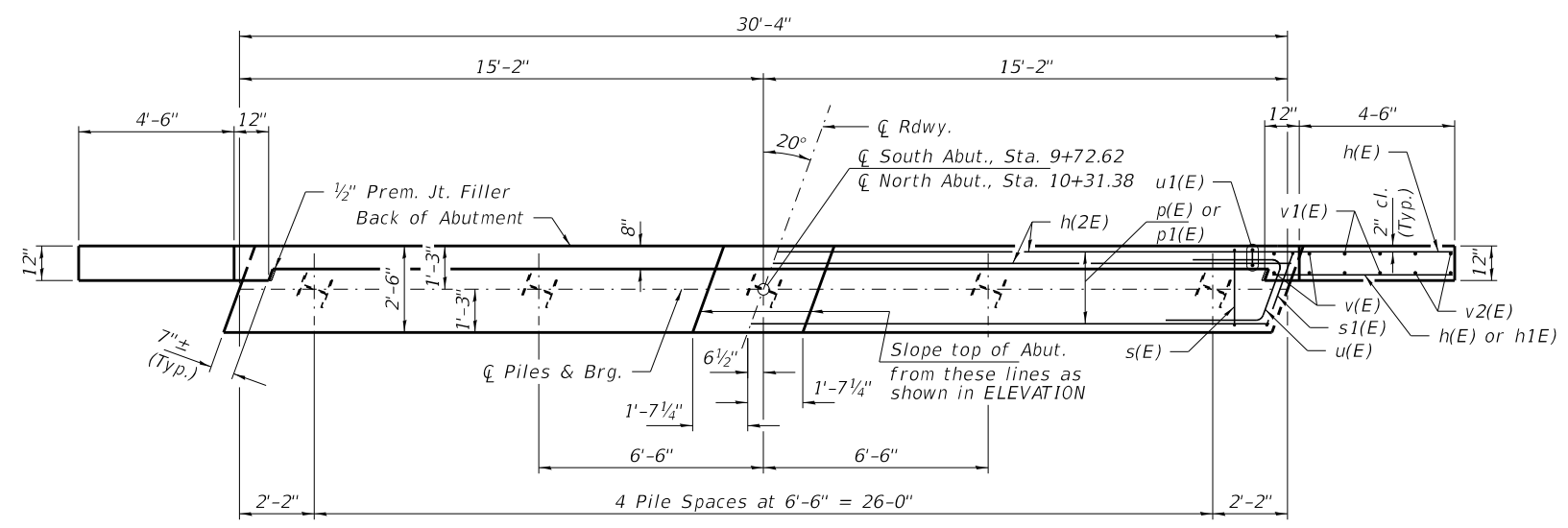
TOP SPACER ASSEMBLY



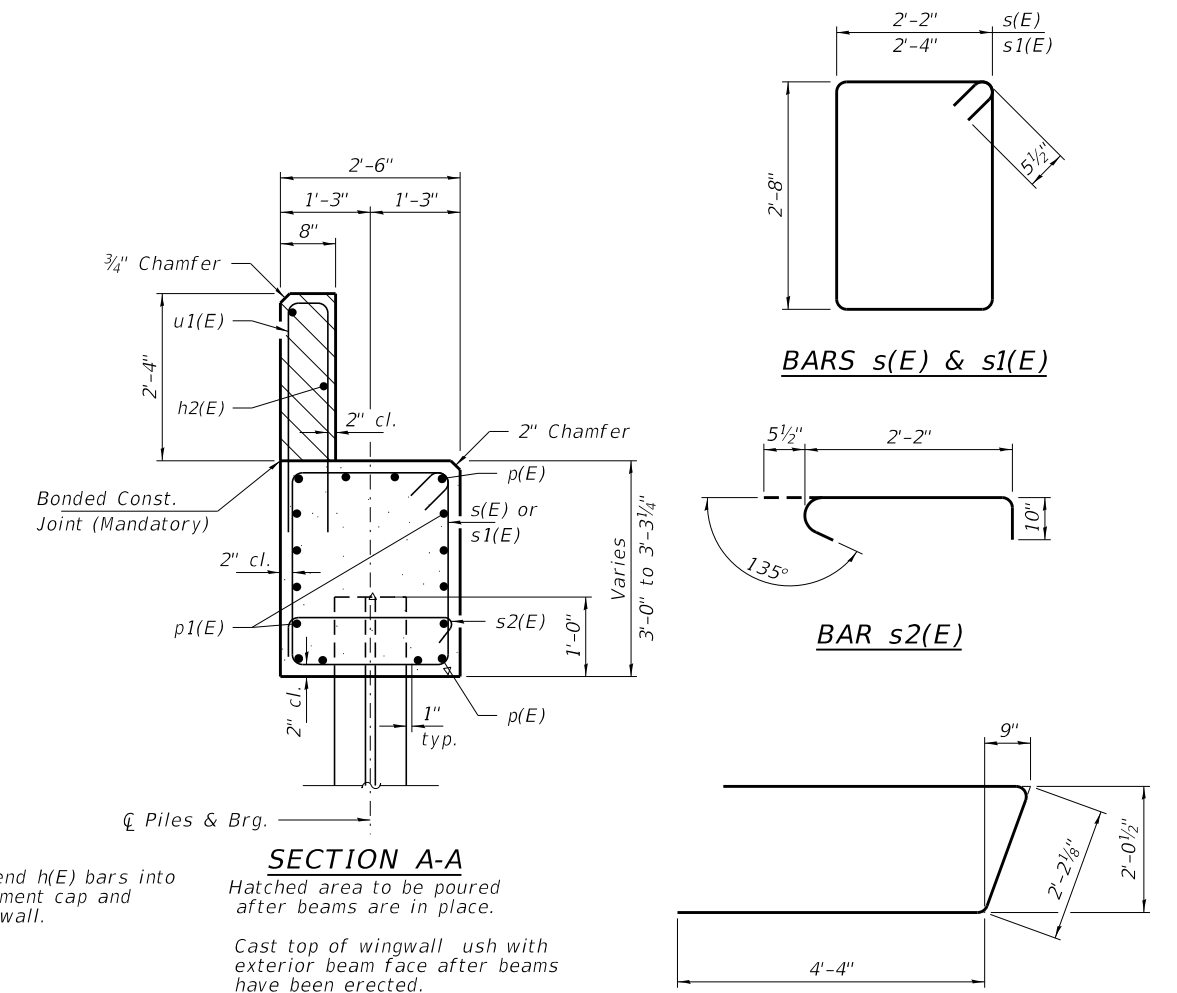
BOTTOM SPACER ASSEMBLY

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type S-1	Foot	119



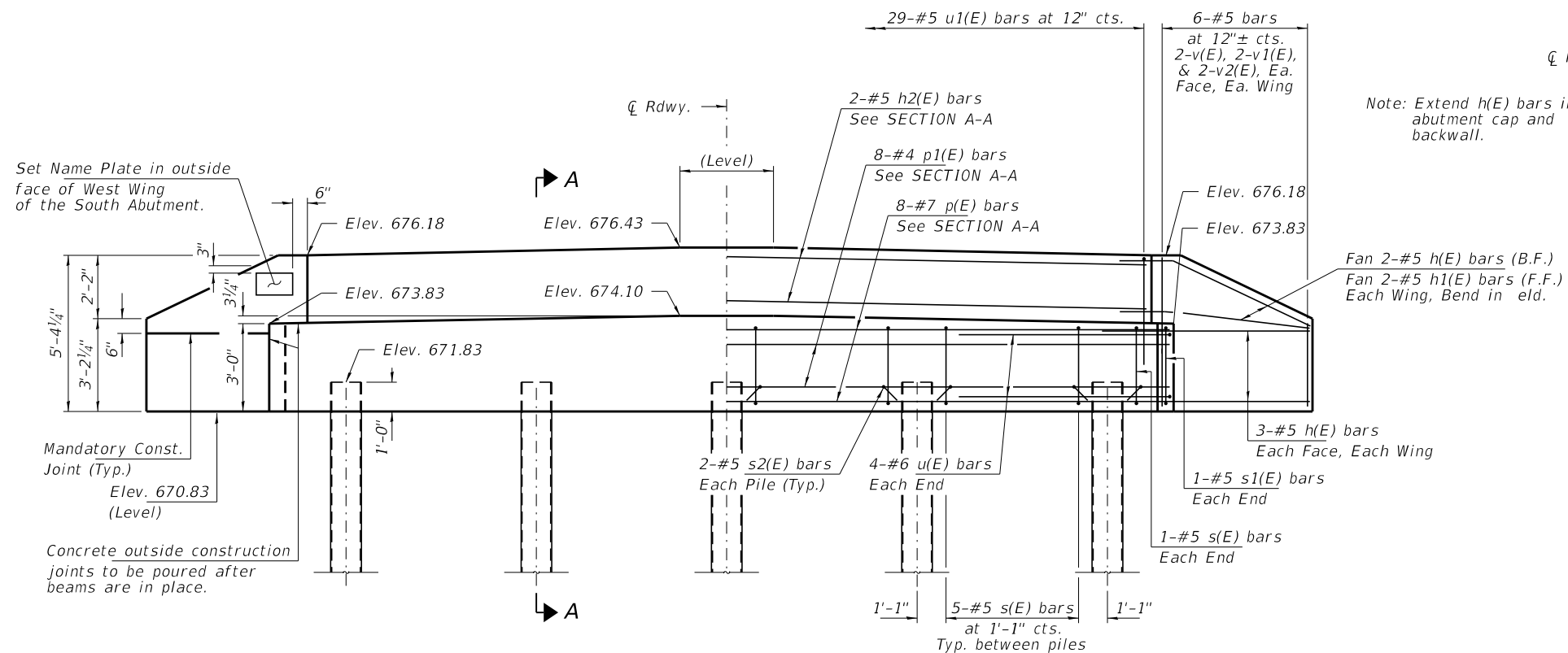
**PLAN**



**SECTION A-A**

Note: Extend h(E) bars into abutment cap and backwall.

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



**ELEVATION**

**PILE DATA**

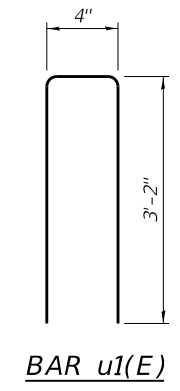
Type: Steel HP10x42  
 Nominal Required Bearing: 295 Kips/Pile  
 Factored Resistance Available: 165 Kips/Pile  
 Est. Length: 35 Ft/Pile  
 No. Production Piles: 9  
 No. Test Piles: 1

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

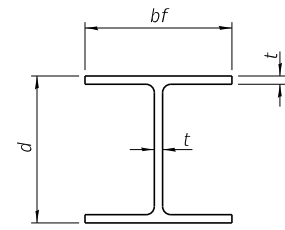
The test pile shall be driven to 110 percent of the Nominal Required Bearing indicated in the pile data information.

**BILL OF MATERIAL - 2 ABUTS.**

BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	32	#5	6'-9"	—
h1(E)	8	#5	5'-3"	—
h2(E)	4	#5	30'-0"	—
p(E)	16	#7	30'-0"	—
p1(E)	16	#4	30'-0"	—
s(E)	44	#5	10'-7"	□
s1(E)	4	#5	10'-11"	□
s2(E)	20	#5	3'-6"	┌┐
u(E)	16	#6	10'-10"	—
u1(E)	58	#5	6'-8"	—
v(E)	16	#5	4'-10"	—
v1(E)	16	#5	3'-11"	—
v2(E)	16	#5	2'-11"	—
Concrete Structures			Cu. Yd.	24.4
Reinf. Bars, Epoxy Coated			Pound	3,160
Steel Piles HP10x42			Foot	315
Test Pile Steel HP10x42			Each	1
Name Plates			Each	1

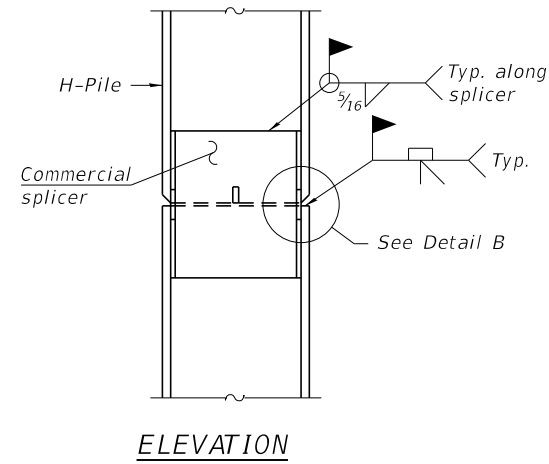


**BAR u1(E)**

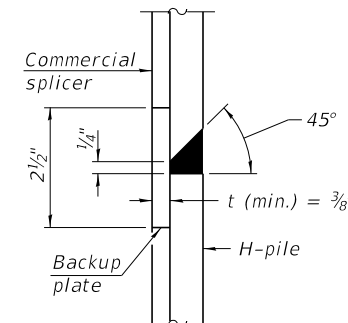


**STEEL PILE TABLE**

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 5/8"	14 5/8"	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"

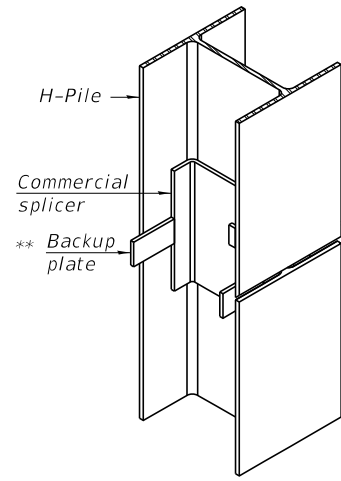


**ELEVATION**

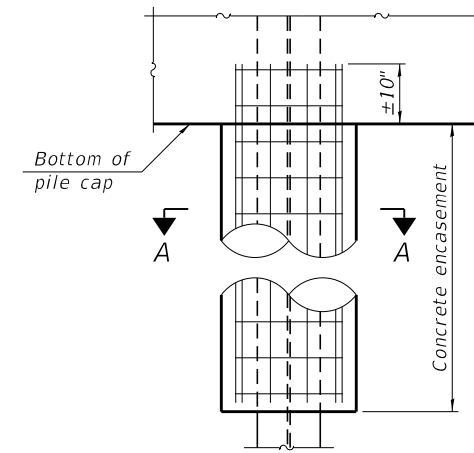


**DETAIL "B"**

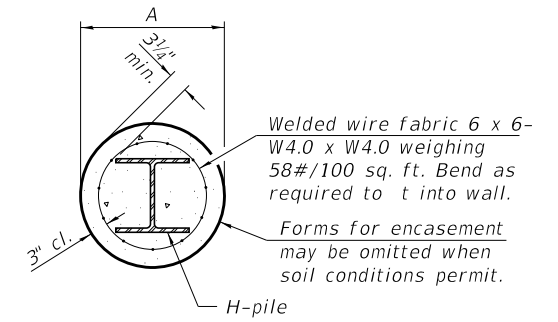
**WELDED COMMERCIAL SPLICE**



**ISOMETRIC VIEW**

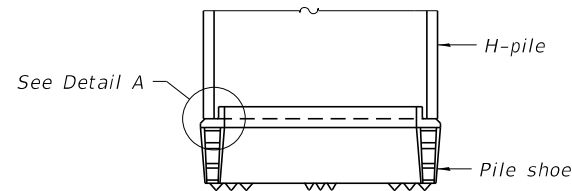


**ELEVATION**

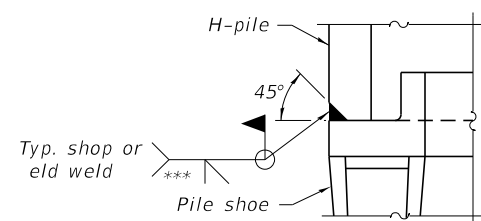


**SECTION A-A**

**INDIVIDUAL PILE CONCRETE ENCASUREMENT**  
(when speci ed)

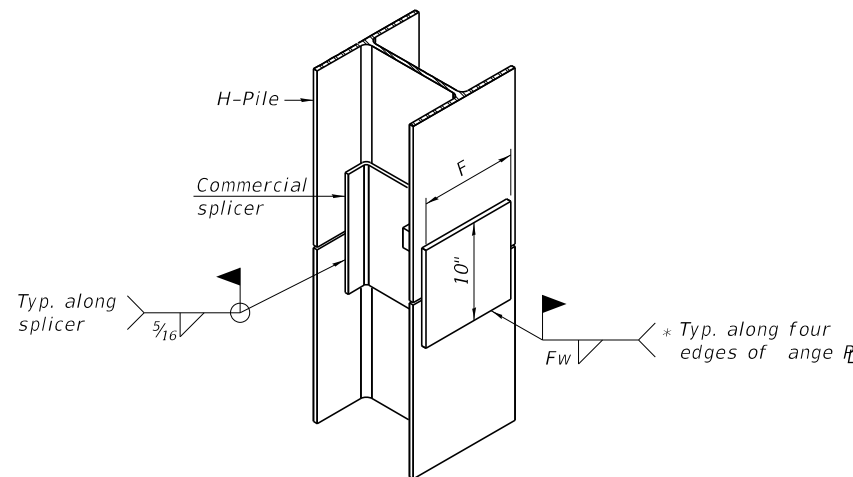


**ELEVATION**



**DETAIL A**

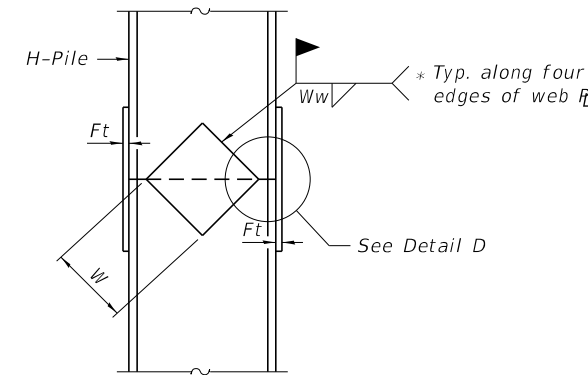
**SHOE ATTACHMENT**



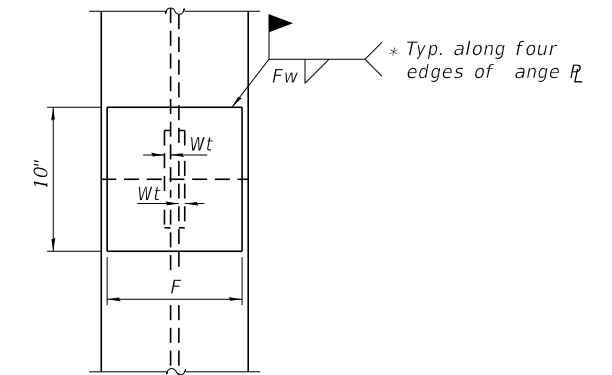
**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE ALTERNATE**

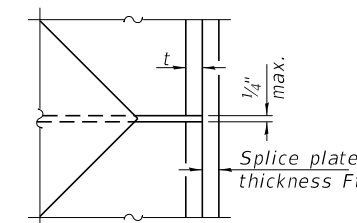
- \* Interrupt welds 1/4" from end of web and/or each ange.
- \*\* Remove portions of backup plates that extend outside the anges.
- \*\*\* Weld size per pile shoe manufacturer (5/16" min.).



**ELEVATION**



**END VIEW**



**DETAIL D**

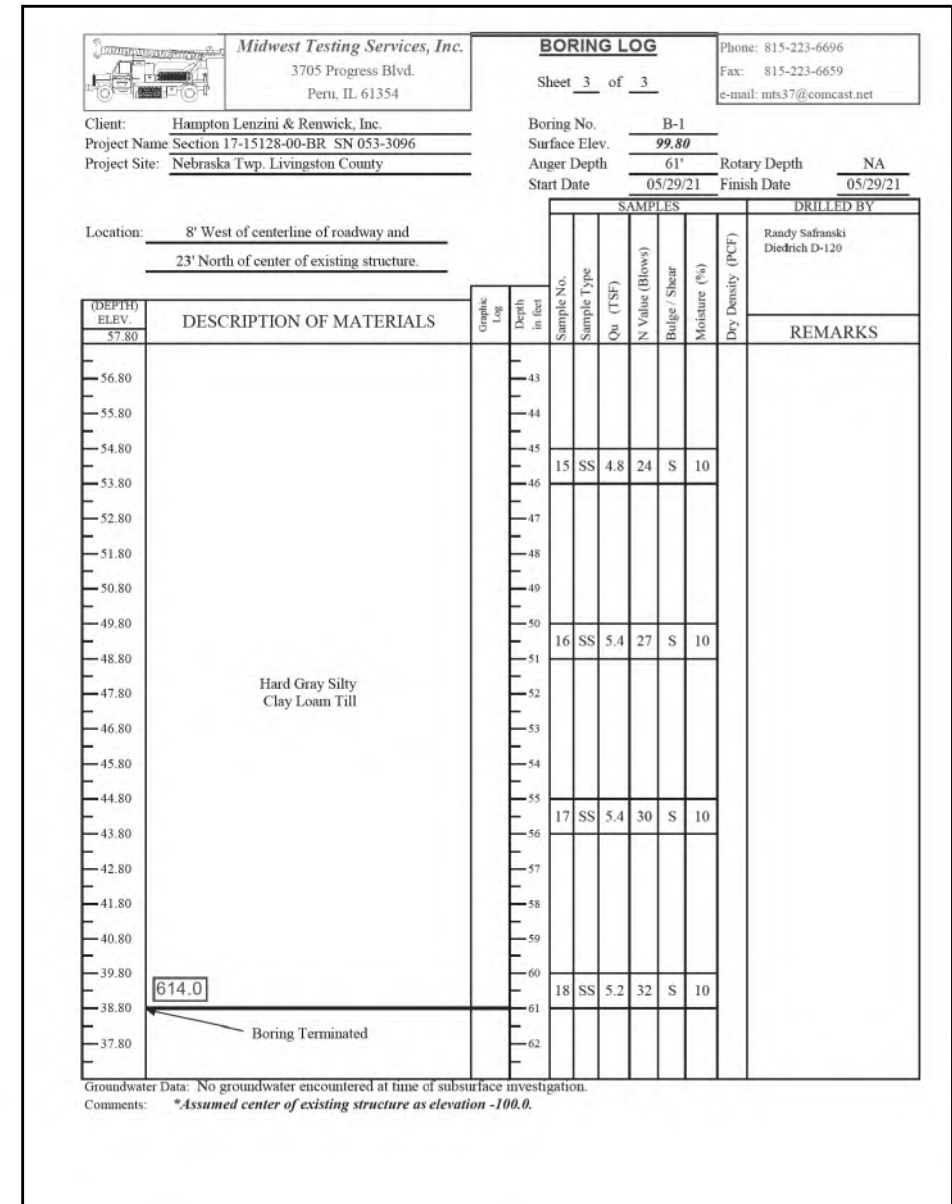
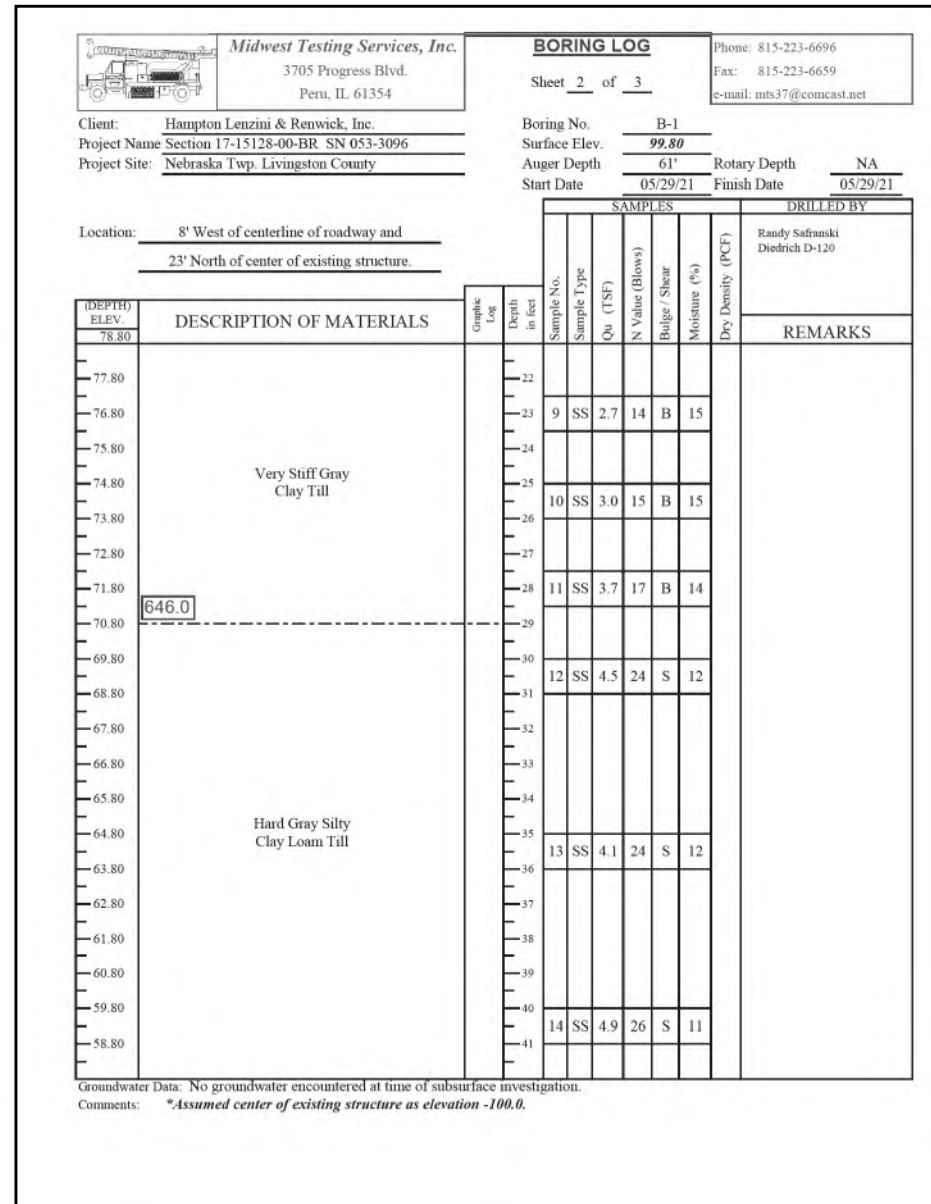
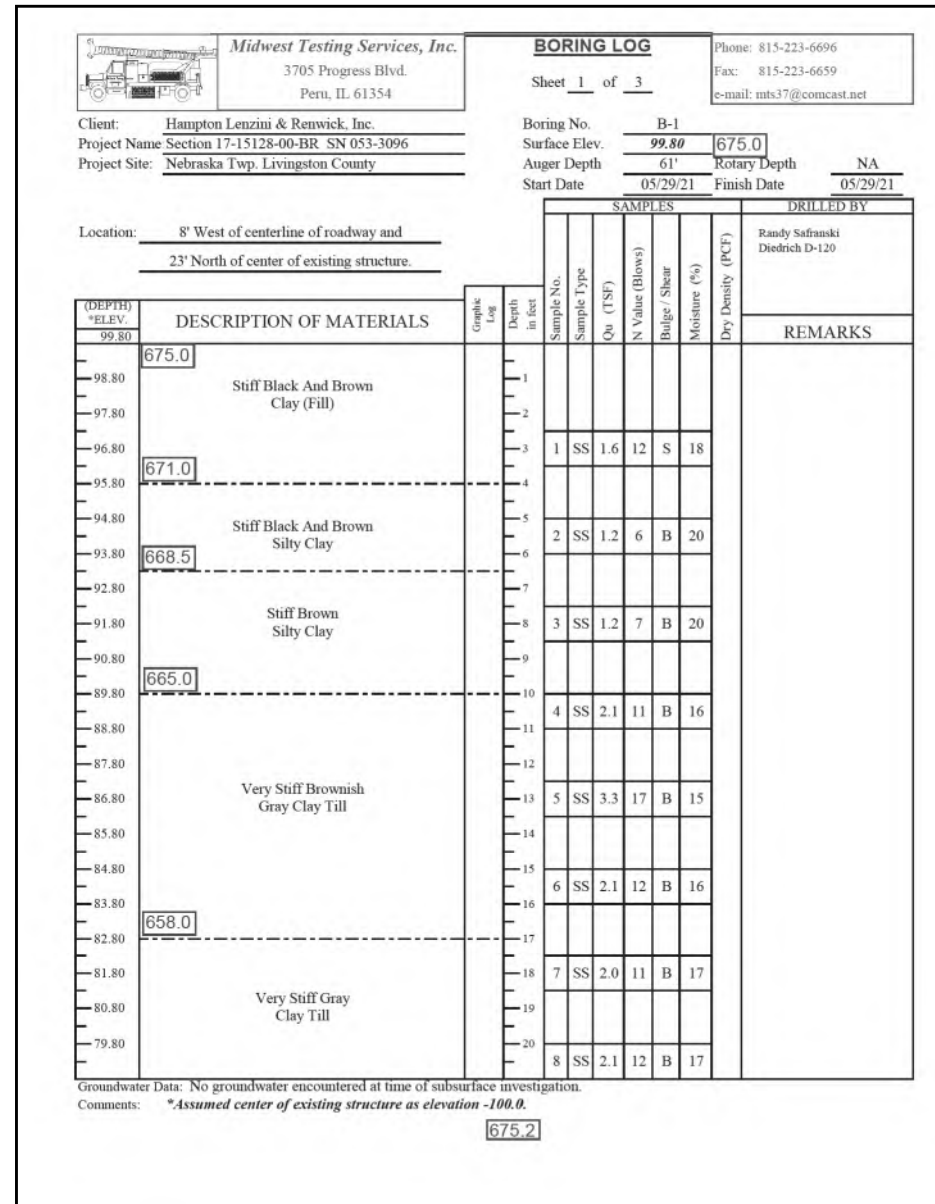
**WELDED PLATE FIELD SPLICE**

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"

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

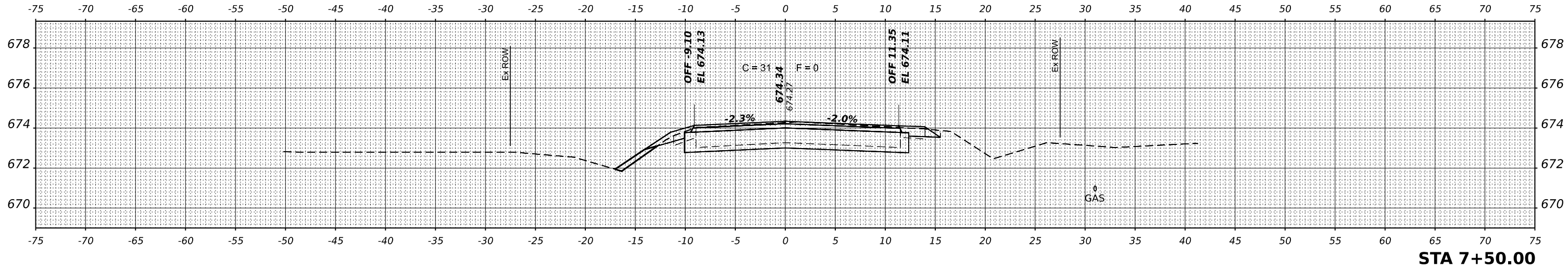
F-HP 10-27-2023

FILE NAME = 210431-shi-bridge.dgn	USER NAME = gmetcal#	DESIGNED - J.R.B.	REVISED -	<b>STATE OF ILLINOIS LIVINGSTON COUNTY HIGHWAY DEPARTMENT</b>	<b>HP PILE DETAILS STRUCTURE NO. 053-4219</b>	T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L.S. / P.E. / S.E. CORP. 184.000959	PLOT SCALE =	CHECKED - S.T.M.	REVISED -			18C	17-15128-00-BR	LIVINGSTON	23	13	
	PLOT DATE = 3/25/2024	DRAWN - D.M.F.	REVISED -			NEBRASKA ROAD DISTRICT					CONTRACT NO. 87823
		CHECKED - S.T.M.	REVISED -			SHEET NO. 8 OF 9 SHEETS					

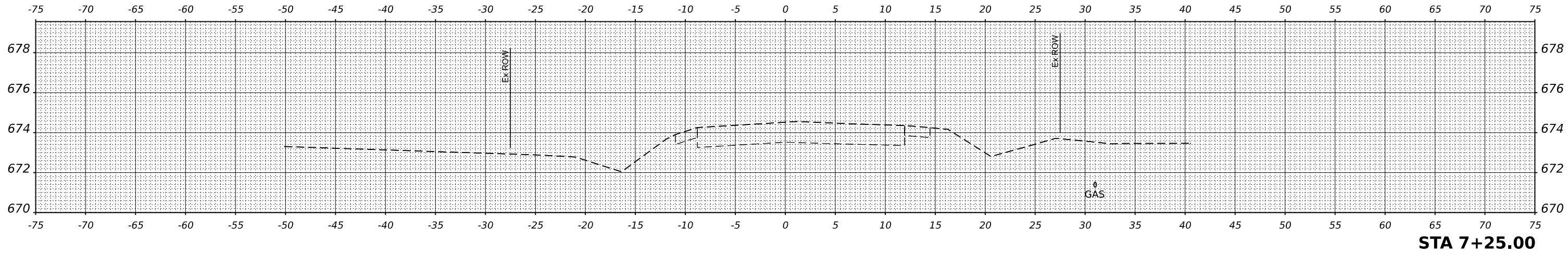
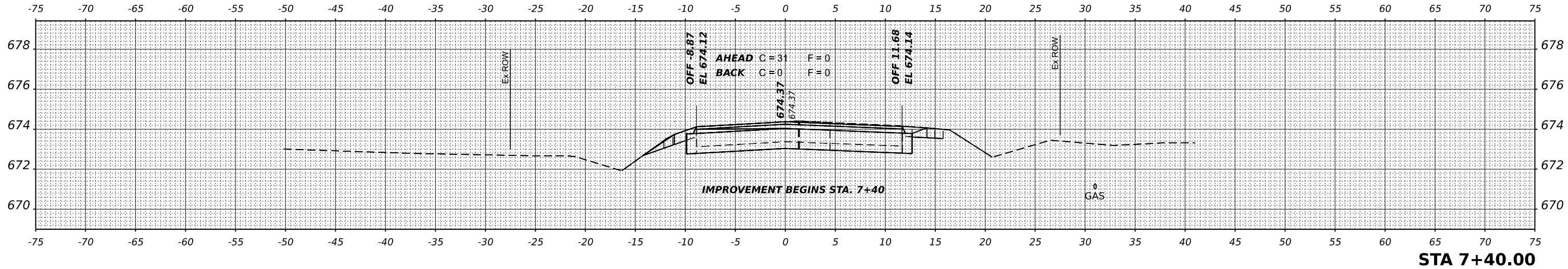


**BORING**

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



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



MODEL \$MODELNAME\$ FILE NAME: 210431510-cshhstc.dgn

**HAMPTON, LENZINI AND RENWICK, INC.**  
 3085 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62703  
 ILLINOIS PROFESSIONAL DESIGN FIRM  
 I/S / P/E / SE CORP. 184-009959

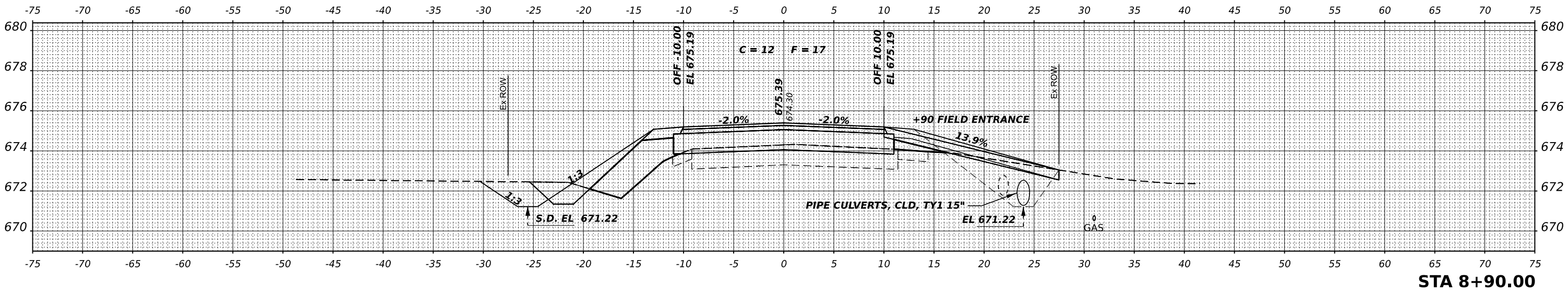
USER NAME	gmetcalf	DESIGNED	S.A.A.	REVISED	-
		DRAWN	T.W.K.	REVISED	-
PLOT SCALE	1"=50'	CHECKED	J.W.F.	REVISED	-
PLOT DATE	3/25/2024	DATE	\$DATS	REVISED	-

**STATE OF ILLINOIS  
LIVINGSTON COUNTY HIGHWAY DEPARTMENT**

<b>STATION CROSS SECTIONS</b>			
SCALE:	2H:1V	SHEET	1 OF 9 SHEETS
STA.	7+25.00	TO	7+50.00

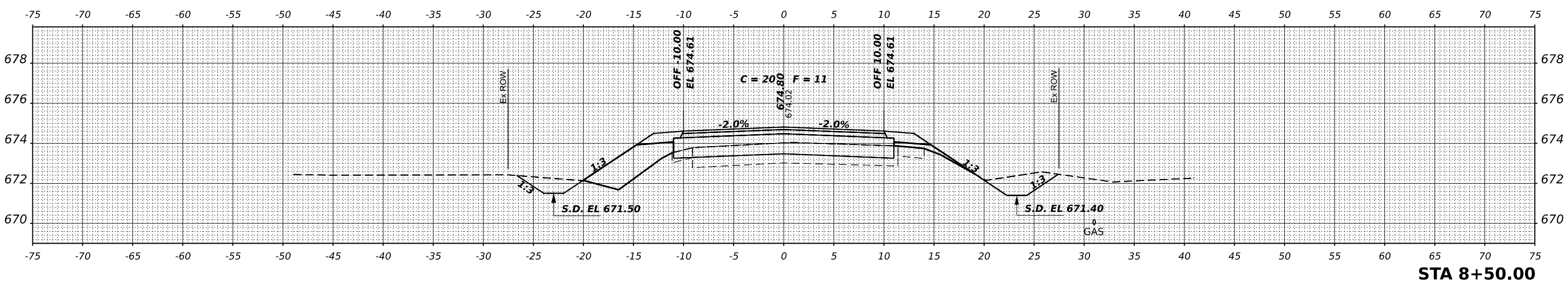
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
18C	17-15128-00-BR	LIVINGSTON	23	15
NEBRASKA ROAD DISTRICT		CONTRACT NO. 87823		
ILLINOIS FED. AID PROJECT DU05(738)				

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



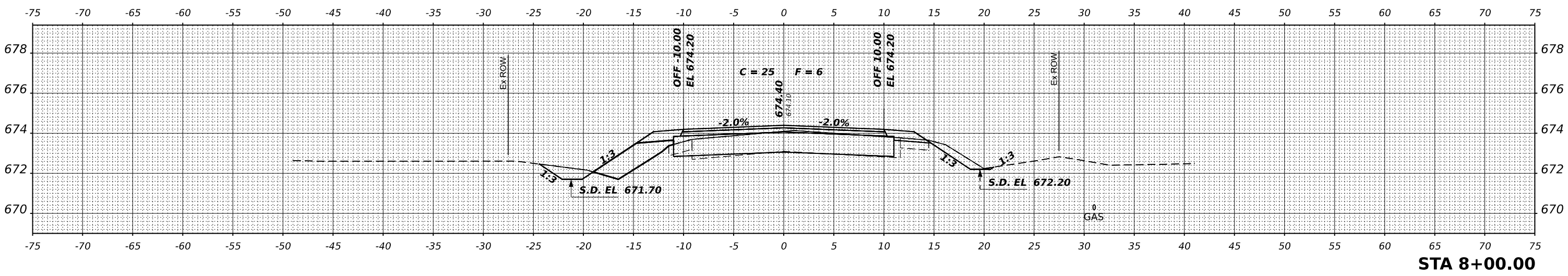
STA 8+90.00

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



STA 8+50.00

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



STA 8+00.00

MODEL \$MODELNAME\$  
 FILE NAME: 210431510-csh16ets.dgn

USER NAME	gmetcalf	DESIGNED	S.A.A.	REVISED	
		DRAWN	T.W.K.	REVISED	
PLOT SCALE	1"=50'	CHECKED	J.W.F.	REVISED	
PLOT DATE	3/25/2024	DATE	\$DATS	REVISED	

STATE OF ILLINOIS  
 LIVINGSTON COUNTY HIGHWAY DEPARTMENT

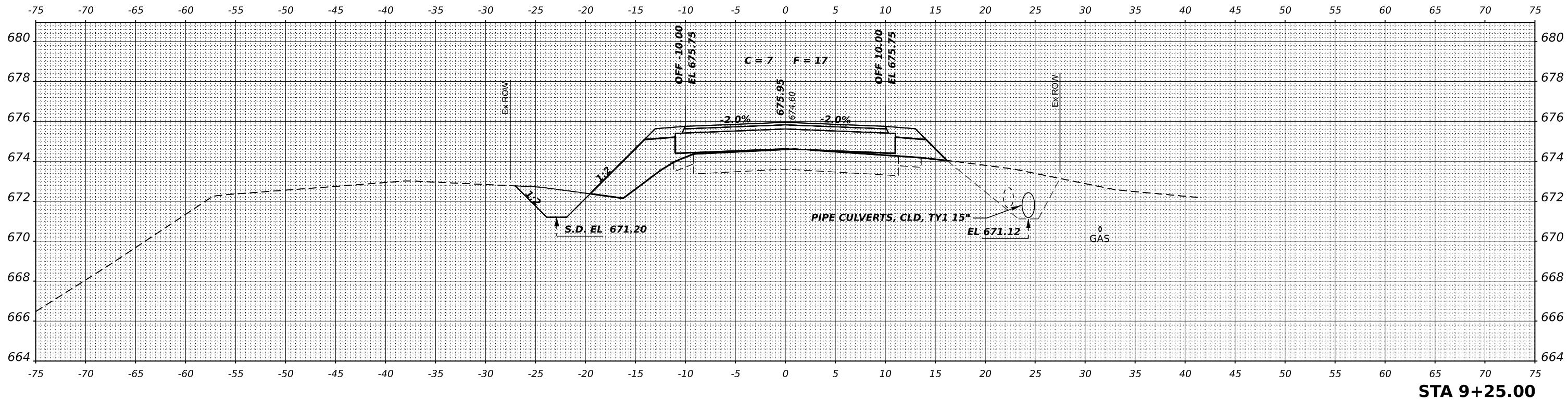
STATION CROSS SECTIONS  
 SCALE: 2H:1V    SHEET 2 OF 9 SHEETS    STA. 8+00.00 TO 8+90.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
18C	17-15128-00-BR	LIVINGSTON	23	16
NEBRASKA ROAD DISTRICT		CONTRACT NO. 87823		
ILLINOIS FED. AID PROJECT DU05(738)				

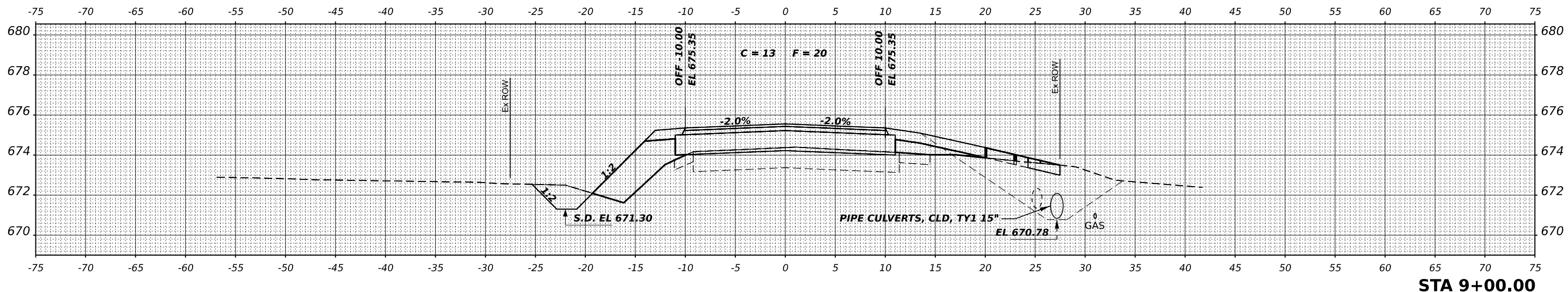


DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



STA 9+25.00



STA 9+00.00

MODEL \$MODELNAME\$  
FILE NAME: 210431511P-cshhstc.dgn

**HAMPTON, LENZINI AND RENWICK, INC.**  
3085 STEVENSON DRIVE, SUITE 201  
SPRINGFIELD, ILLINOIS 62709  
ILLINOIS PROFESSIONAL DESIGN FIRM  
L/S / P.E. / S.E. CORP. 184-000959

USER NAME	gmetcalf	DESIGNED	S.A.A.	REVISED	-
		DRAWN	T.W.K.	REVISED	-
PLOT SCALE	1"=50'	CHECKED	J.W.F.	REVISED	-
PLOT DATE	3/25/2024	DATE	\$DAT\$	REVISED	-

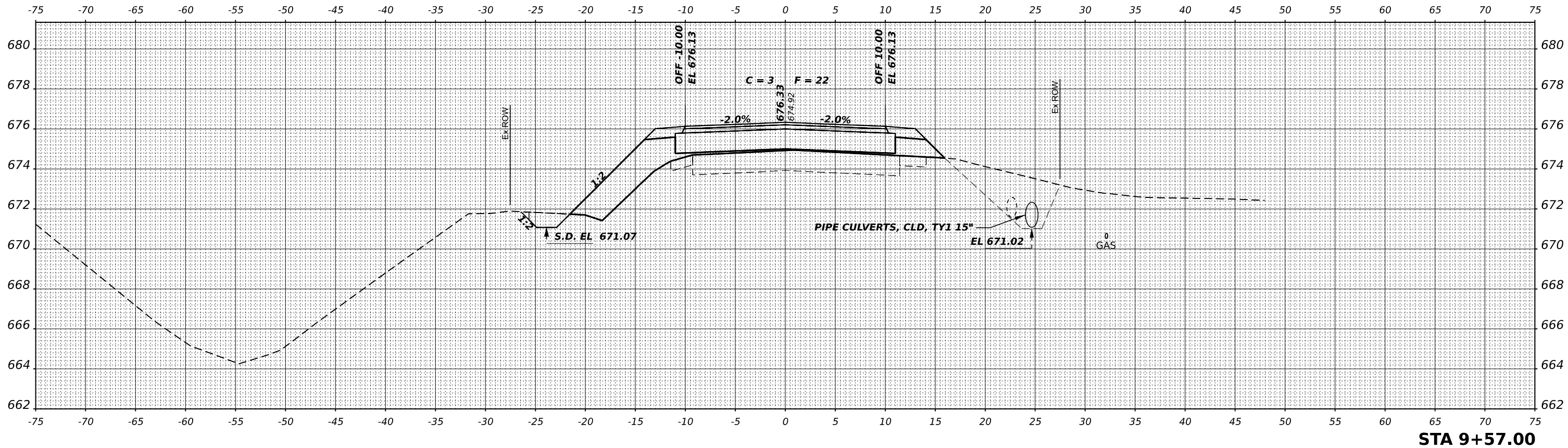
STATE OF ILLINOIS  
LIVINGSTON COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

SCALE: 2H:1V    SHEET 3 OF 9 SHEETS    STA. 9+00.00 TO 9+25.00

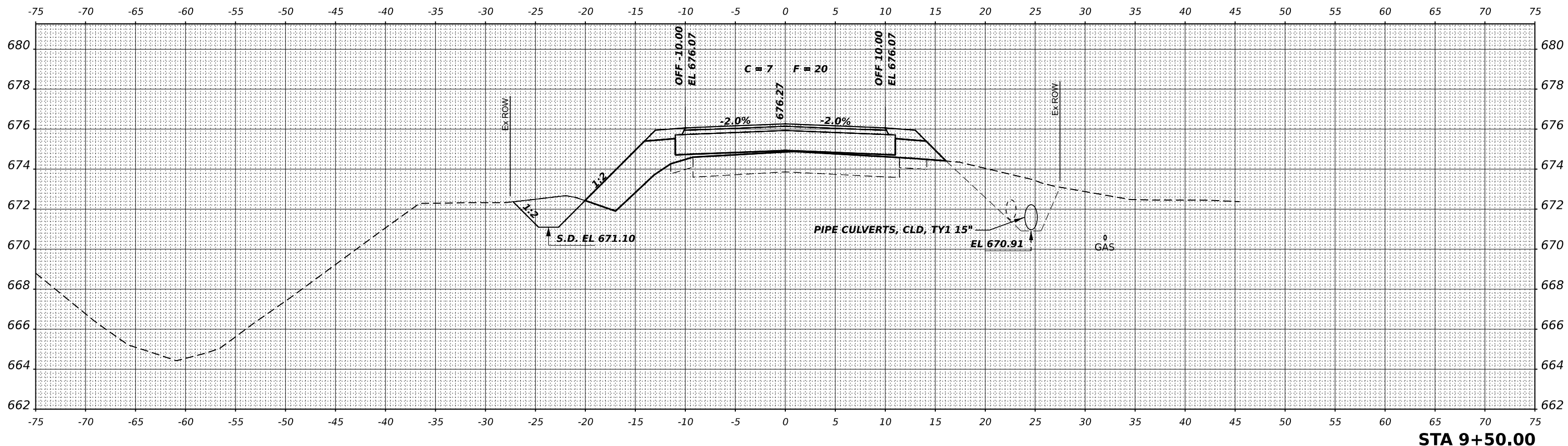
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
18C	17-15128-00-BR	LIVINGSTON	23	17
NEBRASKA ROAD DISTRICT		CONTRACT NO. 87823		
ILLINOIS		FED. AID PROJECT DU05(738)		

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



**STA 9+57.00**

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



**STA 9+50.00**

MODEL \$MODELNAME\$  
FILE NAME: 210431511P-csh1mets.dgn

**HAMPTON, LENZINI AND RENWICK, INC.**  
3085 STEVENSON DRIVE, SUITE 201  
SPRINGFIELD, ILLINOIS 62769  
ILLINOIS PROFESSIONAL DESIGN FIRM  
LS / PE / SE CORP. 184-000959

USER NAME	gmetcalf	DESIGNED	S.A.A.	REVISED	-
		DRAWN	T.W.K.	REVISED	-
PLOT SCALE	1"=50'	CHECKED	J.W.F.	REVISED	-
PLOT DATE	3/25/2024	DATE	\$DAT\$	REVISED	-

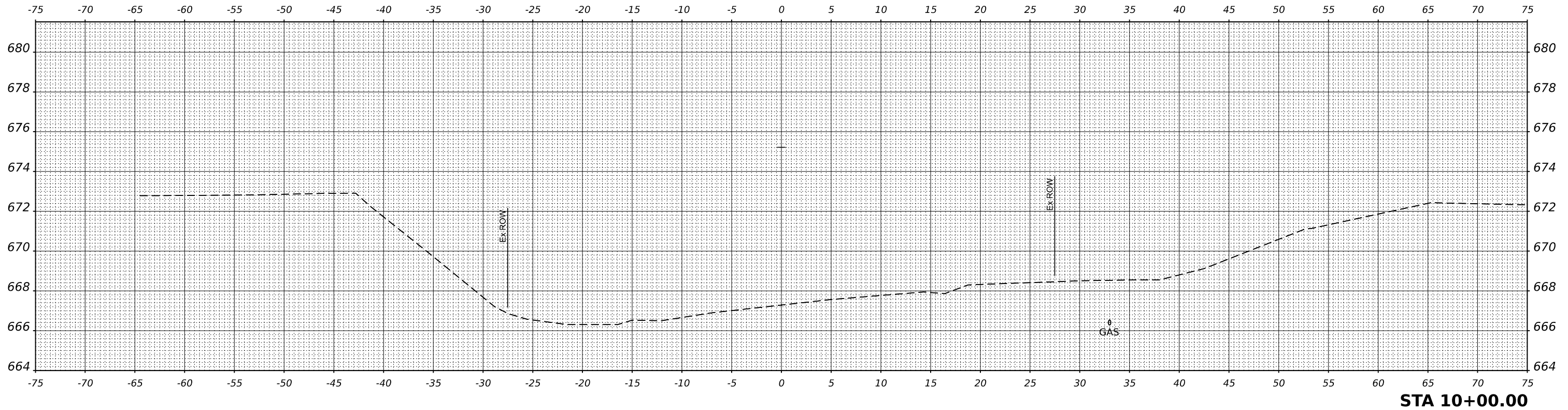
**STATE OF ILLINOIS  
LIVINGSTON COUNTY HIGHWAY DEPARTMENT**

**STATION CROSS SECTIONS**

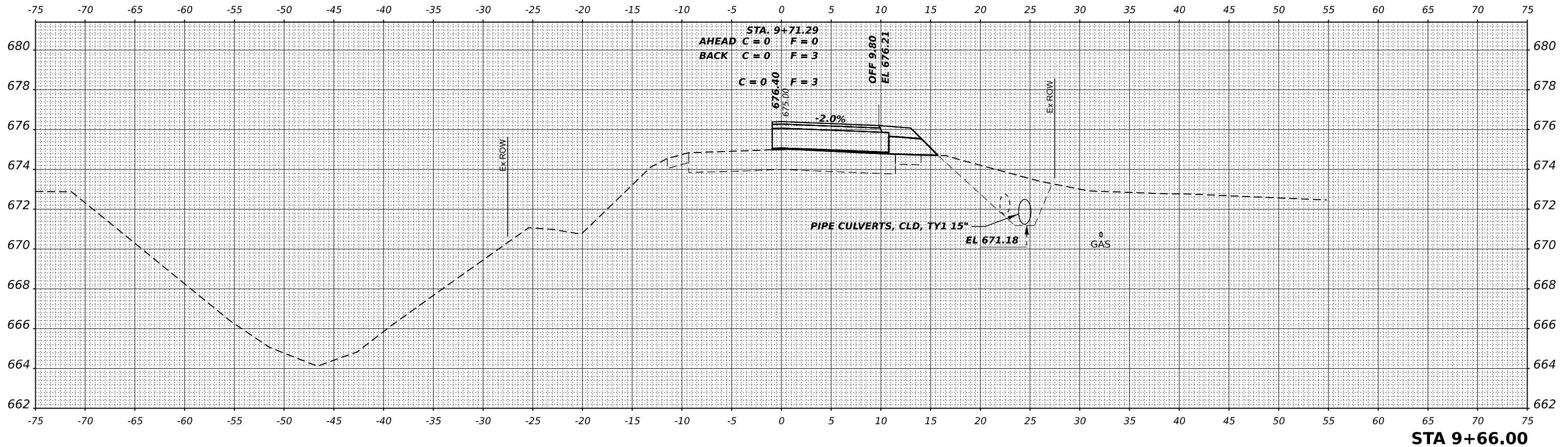
SCALE: 2H:1V    SHEET 4 OF 9 SHEETS    STA. 9+50.00 TO 9+57.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
18C	17-15128-00-BR	LIVINGSTON	23	18
NEBRASKA ROAD DISTRICT		CONTRACT NO. 87823		
ILLINOIS FED. AID PROJECT DU05(738)				

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



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



MODEL \$MODELNAME\$  
FILE NAME: 210431510-ssheets.dgn

**HAMPTON, LENZINI AND RENWICK, INC.**  
3085 STEVENSON DRIVE, SUITE 201  
SPRINGFIELD, ILLINOIS 62703  
ILLINOIS PROFESSIONAL DESIGN FIRM  
LS / PE / SE CORP. 184-000959

USER NAME	gmetcalf
PLOT SCALE	1/4"=1'-0"
PLOT DATE	3/25/2024

DESIGNED	S.A.A.
DRAWN	T.W.K.
CHECKED	J.W.F.
DATE	\$DATS

REVISED	-
REVISED	-
REVISED	-
REVISED	-

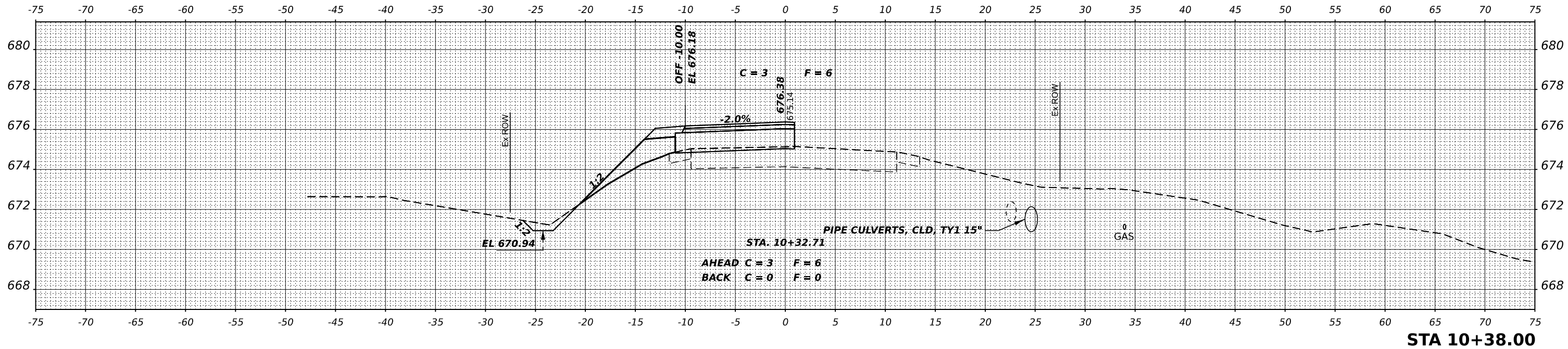
STATE OF ILLINOIS  
LIVINGSTON COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

SCALE: 2H:1V SHEET 5 OF 9 SHEETS STA. 9+66.00 TO 10+00.00

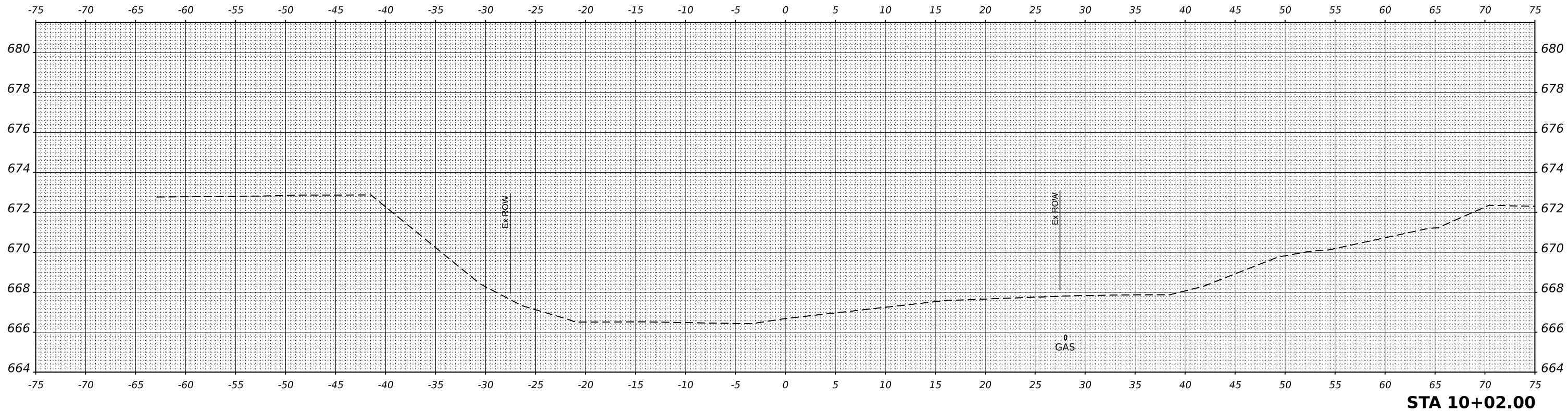
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
18C	17-15128-00-BR	LIVINGSTON	23	19
NEBRASKA ROAD DISTRICT		CONTRACT NO. 87823		
ILLINOIS FED. AID PROJECT DU05(738)				

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



**STA 10+38.00**

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



**STA 10+02.00**

MODEL \$MODELNAME\$  
FILE NAME: 210431510-csh18ets.dgn

**HAMPTON, LENZINI AND RENWICK, INC.**  
3085 STEVENSON DRIVE, SUITE 201  
SPRINGFIELD, ILLINOIS 62769  
ILLINOIS PROFESSIONAL DESIGN FIRM  
LS / PE / SE CORP. 184-000959

USER NAME	gmctcalf	DESIGNED	S.A.A.	REVISED	
		DRAWN	T.W.K.	REVISED	
PLOT SCALE	1/4"=1'-0"	CHECKED	J.W.F.	REVISED	
PLOT DATE	3/25/2024	DATE	\$DAT\$	REVISED	

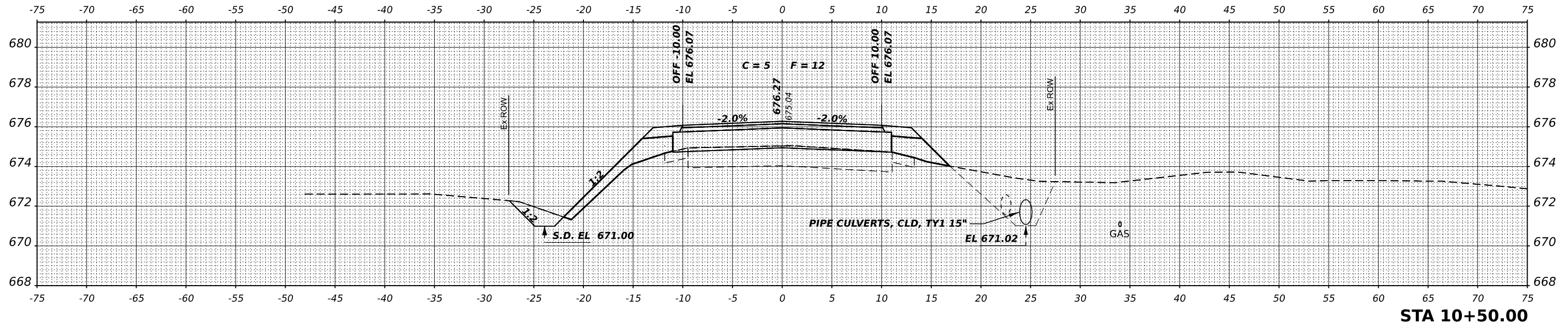
**STATE OF ILLINOIS  
LIVINGSTON COUNTY HIGHWAY DEPARTMENT**

**STATION CROSS SECTIONS**

SCALE: 2H:1V    SHEET 6 OF 9 SHEETS    STA. 10+02.00 TO 10+38.00

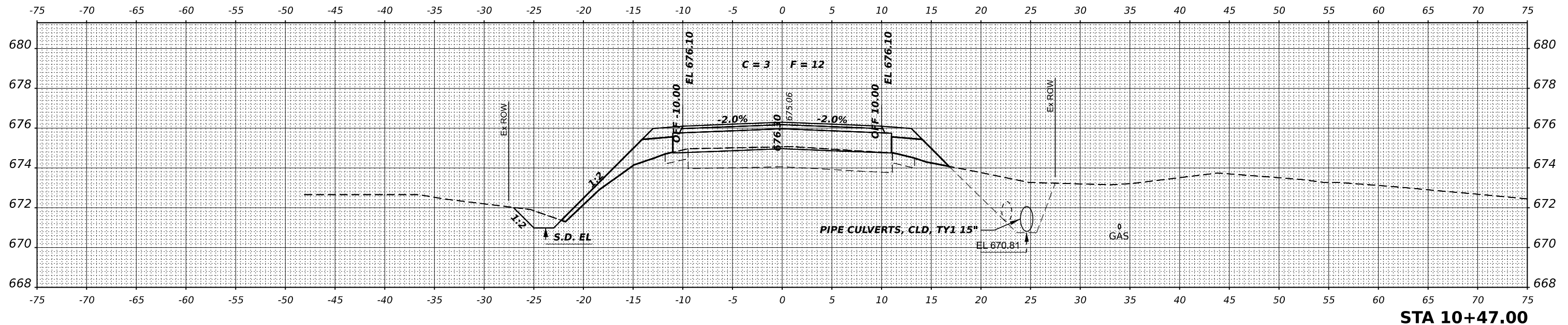
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
18C	17-15128-00-BR	LIVINGSTON	23	20
NEBRASKA ROAD DISTRICT		CONTRACT NO. 87823		
ILLINOIS		FED. AID PROJECT DU05(738)		

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



STA 10+50.00

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



STA 10+47.00

MODEL \$MODELNAME\$  
FILE NAME: 210431510-cshhstc.dgn

**HAMPTON, LENZINI AND RENWICK, INC.**  
3085 STEVENSON DRIVE, SUITE 201  
SPRINGFIELD, ILLINOIS 62703  
ILLINOIS PROFESSIONAL DESIGN FIRM  
LS / PE / SE CORP. 184-000959

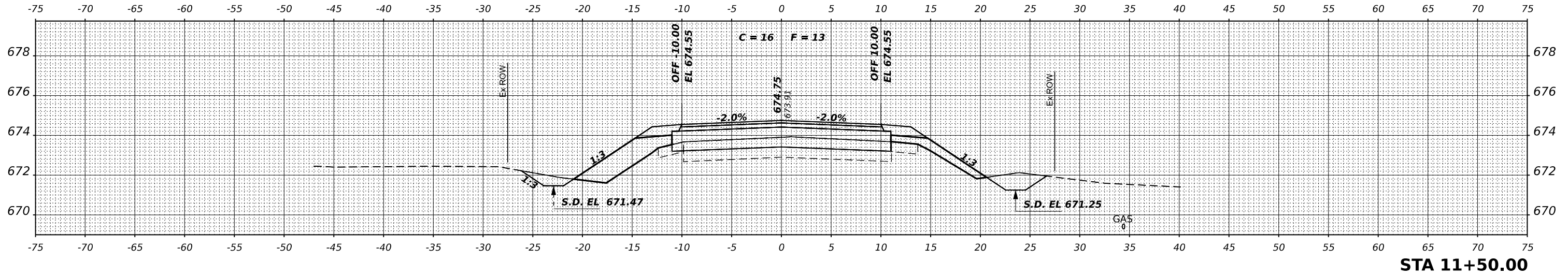
USER NAME	gmctcalf	DESIGNED	S.A.A.	REVISED	-
		DRAWN	T.W.K.	REVISED	-
PLOT SCALE	1/8"=1'	CHECKED	J.W.F.	REVISED	-
PLOT DATE	3/25/2024	DATE	\$DATS	REVISED	-

STATE OF ILLINOIS  
LIVINGSTON COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS			
T.R.	SECTION	COUNTY	TOTAL SHEETS
18C	17-15128-00-BR	LIVINGSTON	23
NEBRASKA ROAD DISTRICT		CONTRACT NO. 87823	
SCALE: 2H:1V	SHEET 7	OF 9 SHEETS	STA. 10+47.00 TO 10+50.00

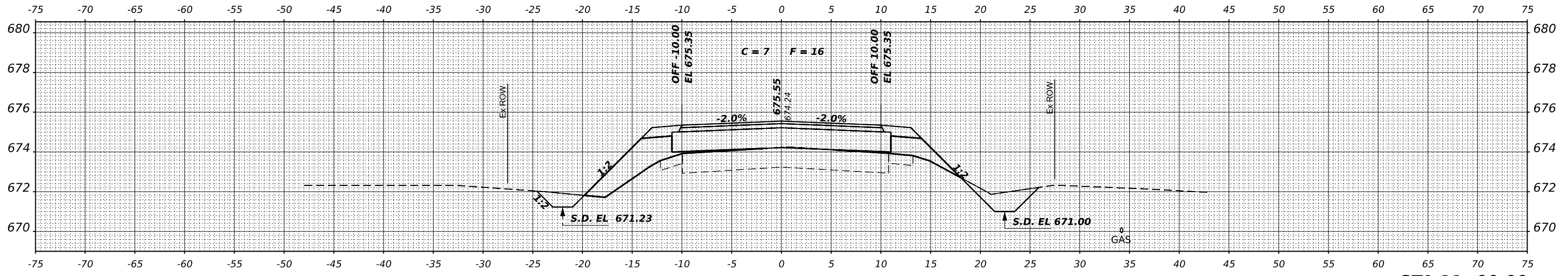
TOTAL SHEETS	SHEET NO.
23	21
ILLINOIS FED. AID PROJECT DU05(738)	

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



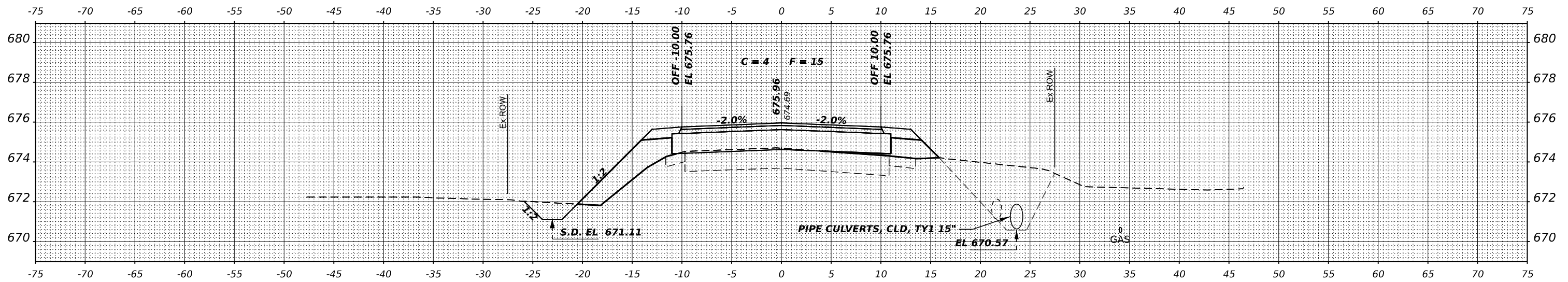
STA 11+50.00

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



STA 11+00.00

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



STA 10+75.00

STATE OF ILLINOIS  
LIVINGSTON COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

USER NAME	gmetcalf	DESIGNED	S.A.A.	REVISED	
PLOT SCALE	1/4"=10'	DRAWN	T.W.K.	REVISED	
PLOT DATE	3/25/2024	CHECKED	J.W.F.	REVISED	
		DATE	\$DATS	REVISED	

SCALE: 2H:1V SHEET 8 OF 9 SHEETS STA. 10+75.00 TO 11+50.00

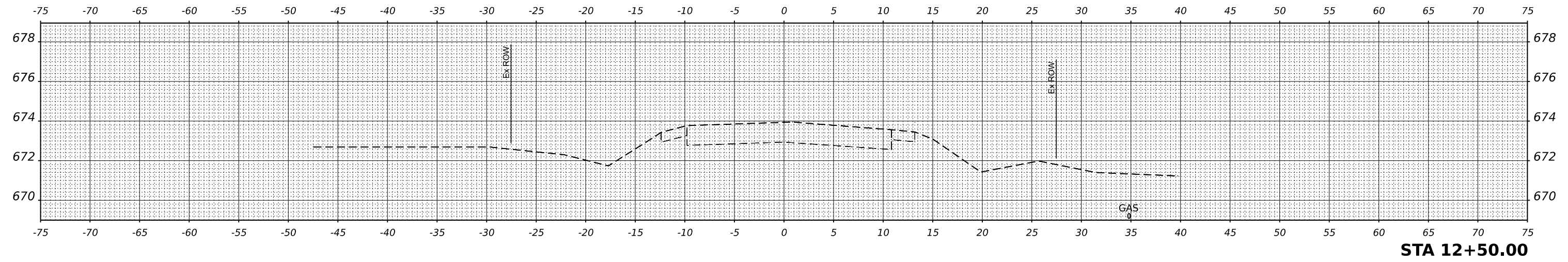
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
18C	17-15128-00-BR	LIVINGSTON	23	22
NEBRASKA ROAD DISTRICT		CONTRACT NO. 87823		

HAMPTON, LENZINI AND RENWICK, INC.  
3085 STEVENSON DRIVE, SUITE 201  
SPRINGFIELD, ILLINOIS 62761  
ILLINOIS PROFESSIONAL DESIGN FIRM  
L/S / P/E / SE CORP. 184-000959

MODEL \$MODELNAME\$  
FILE NAME: 210431518-00brshts.dgn

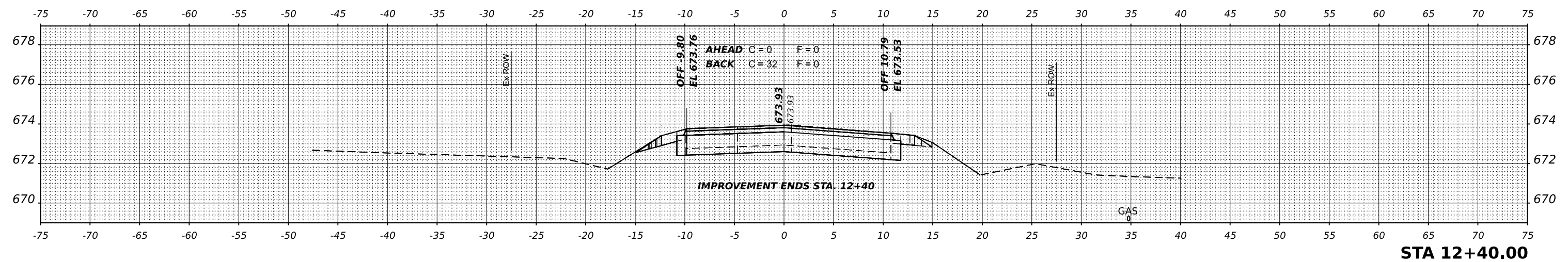
ILLINOIS FED. AID PROJECT DU05(738)

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

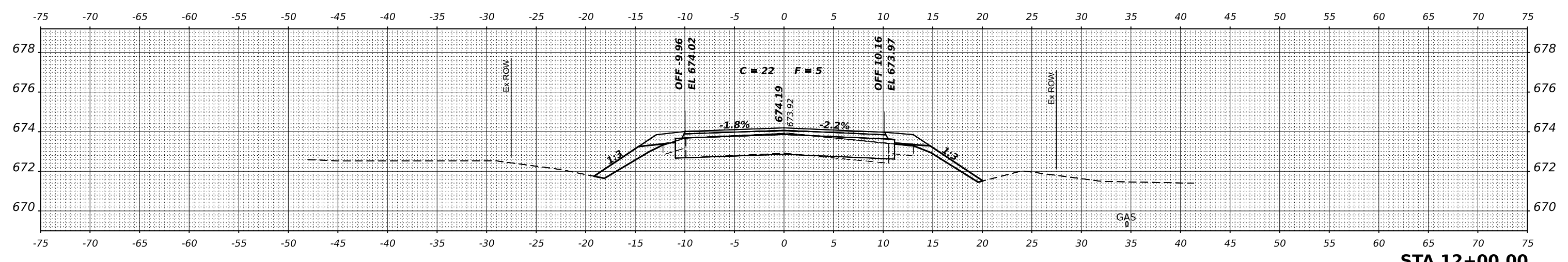


**STA 12+50.00**

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



**STA 12+40.00**



**STA 12+00.00**

MODEL \$MODELNAME\$  
FILE NAME: 210431510-08sheet8.dgn

**HAMPTON, LENZINI AND RENWICK, INC.**  
3085 STEVENSON DRIVE, SUITE 201  
SPRINGFIELD, ILLINOIS 62769  
ILLINOIS PROFESSIONAL DESIGN FIRM  
LS / PE / SE CORP. 184-000959

USER NAME	gmetcalc	DESIGNED	S.A.A.	REVISED	-
		DRAWN	T.W.K.	REVISED	-
PLOT SCALE	1"=50'	CHECKED	J.W.F.	REVISED	-
PLOT DATE	3/25/2024	DATE	\$DATS	REVISED	-

**STATE OF ILLINOIS  
LIVINGSTON COUNTY HIGHWAY DEPARTMENT**

**STATION CROSS SECTIONS**  
SCALE: 2H:1V    SHEET 9 OF 9 SHEETS    STA. 12+00.00 TO 12+50.00

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
18C	17-15128-00-BR	LIVINGSTON	23	23
NEBRASKA ROAD DISTRICT		CONTRACT NO. 87823		
ILLINOIS		FED. AID PROJECT DU05(738)		