

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
F.A.S. 1327	22-00304-00-BR	KANKAKEE	45	1
FED. ROAD DIST. NO. 7		ILLINOIS	CONTRACT NO. 87835	

INDEX OF SHEETS 06-14-2024 LETTING ITEM 150

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
6-7.	GUARDRAIL AND SHOULDER LAYOUT
8-23.	BRIDGE PLANS
24-45.	STATION CROSS SECTIONS

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
**PLANS FOR PROPOSED  
FEDERAL AID PROJECT  
LOCAL BRIDGE FORMULA PROGRAM**  
F.A.S. 1327 / C.H. 17 / N 8000E RD.  
PROPOSED STRUCTURE NO. 046-3511  
SECTION 22-00304-00-BR  
PROJECT WIF6(885)  
KANKAKEE COUNTY  
C-93-023-24

HIGHWAY STANDARDS:

000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
515001-04	NAME PLATE FOR BRIDGES
601001-05	PIPE UNDERDRAINS
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAIN
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631032-10	TRAFFIC BARRIER TERMINAL, TYPE 6A
701901-09	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
BLR 21-9	TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES FOR CONSTRUCTION ON RURAL LOCAL HIGHWAYS
BLR 23-4	TRAFFIC BARRIER TERMINAL, TYPE 1

**UTILITIES**

AT&T  
100 COMMERCE DRIVE  
OAK BROOK, IL 60523

BUCKEYE PARTNERS  
3670 S. HADDEN RD.  
MAZON, IL 60444

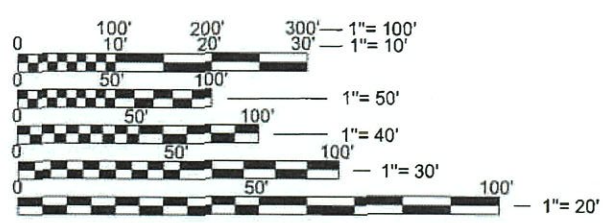
COMED  
PUBLIC RELOCATION DEPARTMENT  
ONE LINCOLN CENTER, SUITE 600  
OAKBRIDGE TERRACE, IL 60181  
Lisa.argast@comed.com

**WARNING**

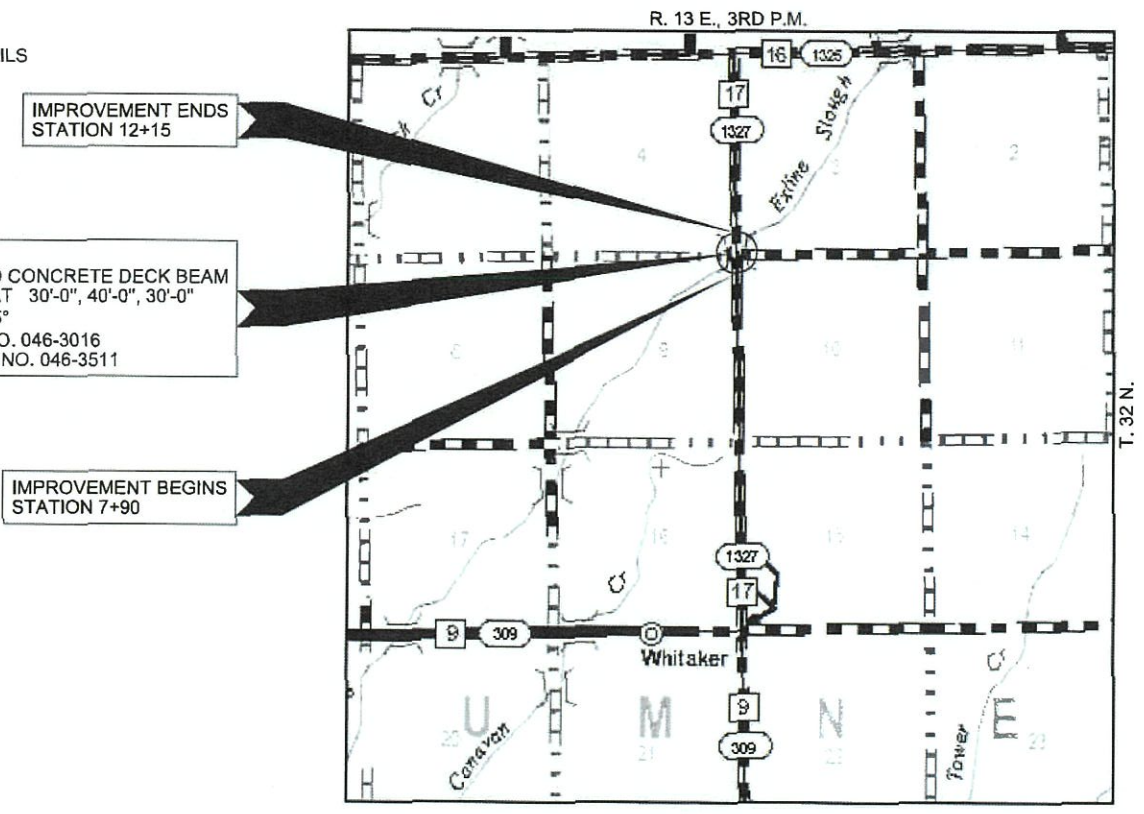


**CALL 811  
BEFORE YOU DIG**

**DIG NO: A230932841**



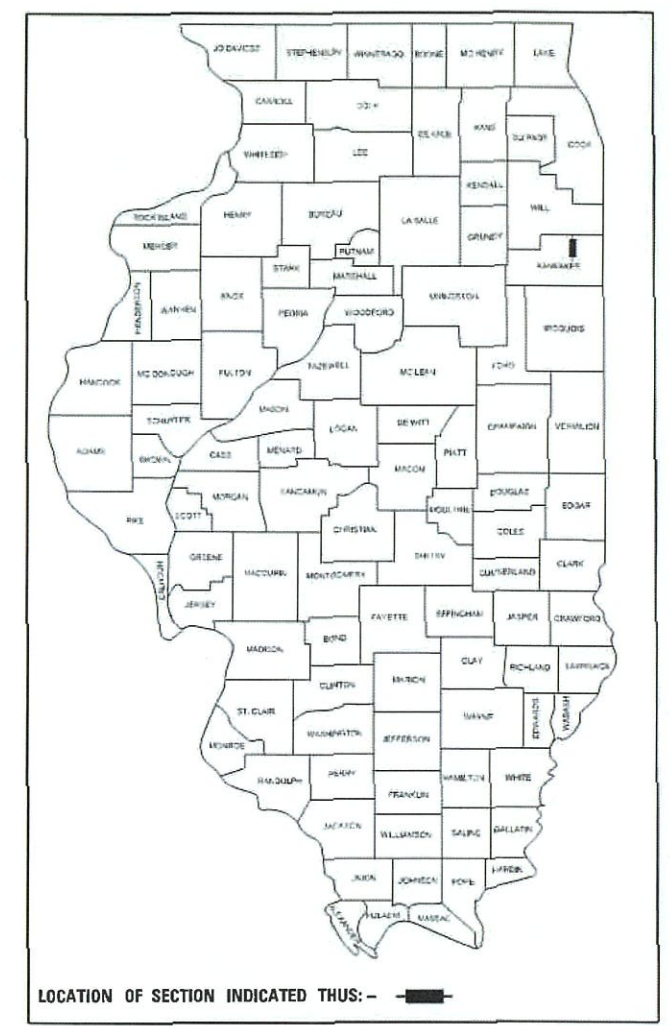
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.



**LOCATION MAP**

APPROXIMATE SCALE: 0 1/2 MILE

NET LENGTH OF SECTION = 425 FEET = 0.080 MILES  
FUNCTIONAL CLASSIFICATION: MAJOR COLLECTOR  
DESIGN SPEED: 50 MPH  
DESIGN TRAFFIC: 1,050 ADT  
3R DESIGN GUIDELINES ARE USED



**ILLINOIS DEPARTMENT OF TRANSPORTATION**

APPROVED *[Signature]* 3/29 2024  
COUNTY ENGINEER

PASSED *[Signature]* April 12 2024  
DISTRICT THREE ENGINEER OF LOCAL ROADS & STREETS

Releasing For Bld Based on Limited Review  
*[Signature]* April 12 2024  
REGION TWO ENGINEER

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

DATE: 03/29/2024



**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

184.00959  
ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORPORATION

EXPIRES: 11/30/2025 PROJECT NUMBER: 23.0154.130 DATE: 03/29/2024

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	CONSTRUCTION TYPE CODE 0010	
		UNIT	TOTAL
		20200100	EARTH EXCAVATION
20300100	CHANNEL EXCAVATION	CU YD	115
20400800	FURNISHED EXCAVATION	CU YD	254
20800150	TRENCH BACKFILL	CU YD	45
25100630	EROSION CONTROL BLANKET	SQ YD	1,561
28000305	TEMPORARY DITCH CHECKS	FOOT	36
28000500	INLET AND PIPE PROTECTION	EACH	2
28100207	STONE RIPRAP, CLASS A4	TON	640
28200200	FILTER FABRIC	SQ YD	700
35600708	HOT-MIX ASPHALT BASE COURSE WIDENING, 8"	SQ YD	214
40200800	AGGREGATE SURFACE COURSE, TYPE B	TON	29
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	120
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	381
40600370	LONGITUDINAL JOINT SEALANT	FOOT	323
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	159
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	163
48101200	AGGREGATE SHOULDERS, TYPE B	TON	214
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50105220	PIPE CULVERT REMOVAL	FOOT	154
50201101	COFFERDAM (TYPE 1) (LOCATION - 1)	EACH	1
50201102	COFFERDAM (TYPE 1) (LOCATION - 2)	EACH	1
50300225	CONCRETE STRUCTURES	CU YD	76.0
50300280	CONCRETE ENCASEMENT	CU YD	17.0
50300300	PROTECTIVE COAT	SQ YD	20
50400305	PRECAST PRESTRESSED CONCRETE DECK BEAMS (17" DEPTH)	SQ FT	3,000
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	8,540
50900209	STEEL RAILING, TYPE SMX	FOOT	204
51201400	FURNISHING STEEL PILES HP10X42	FOOT	990
51202305	DRIVING PILES	FOOT	990
51203400	TEST PILE STEEL HP10X42	EACH	2
51500100	NAME PLATES	EACH	1
542D0259	PIPE CULVERTS, CLASS D, TYPE 1 54"	FOOT	100
542D1081	PIPE CULVERTS, CLASS D, TYPE 2 36"	FOOT	126

SUMMARY OF QUANTITIES			
CODE NO.	ITEM	CONSTRUCTION TYPE CODE 0010	
		UNIT	TOTAL
		58100200	WATERPROOFING MEMBRANE SYSTEM
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	225
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	90
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	56
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	152
* 63100087	TRAFFIC BARRIER TERMINAL, TYPE 6A	EACH	2
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2
63200310	GUARDRAIL REMOVAL	FOOT	145
67100100	MOBILIZATION	L SUM	1
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	8
X2501000	SEEDING, CLASS 2 (SPECIAL)	ACRE	0.5
* X6310188	TRAFFIC BARRIER TERMINAL, TYPE 6A (MODIFIED)	EACH	2
* X6310195	TRAFFIC BARRIER TERMINAL TYPE 1, SPECIAL (TANGENT), MODIFIED	EACH	2
X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1
Z0013798	CONSTRUCTION LAYOUT	L SUM	1

\* SPECIALTY ITEMS

**GENERAL NOTES**

- 1) 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.
- 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  
 HOT MIX ASPHALT                    112    LBS/SQ YD/INCH THICKNESS  
 AGGREGATE SURFACE COURSE      2.05    TON/CU YD  
 AGGREGATE SHOULDER              2        TON/CU YD  
  
**BITUMINOUS MATERIALS 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 SEEDED 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 SEEDED SHALL CONSIST OF ALL DISTURBED EARTH SURFACES WITHIN THE RIGHT OF WAY OR AS DIRECTED BY THE ENGINEER.  
 SEEDING, CLASS 2 (SPECIAL) =        0.5 ACRES
- 9) ONLY SUITABLE MATERIAL FROM EXCAVATIONS MAY BE USED IN THE EMBANKMENT. EXCESS AND UNSUITABLE MATERIAL SHALL BE
- 10) COMMITMENTS:  
 1) NONE

**EARTHWORK SCHEDULE**

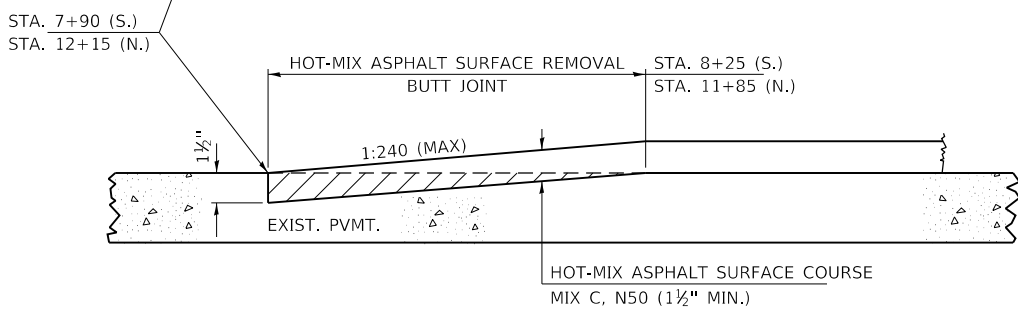
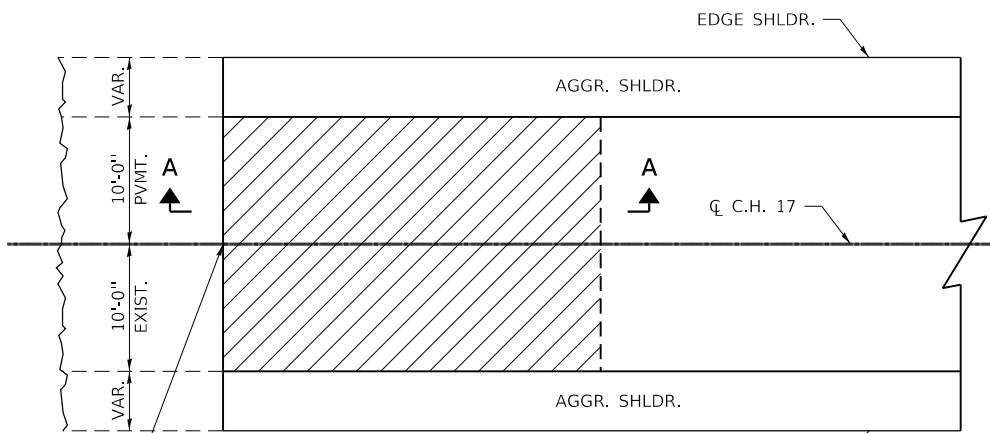
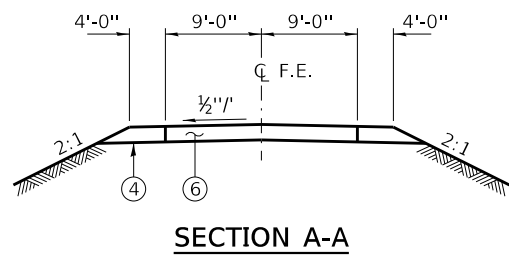
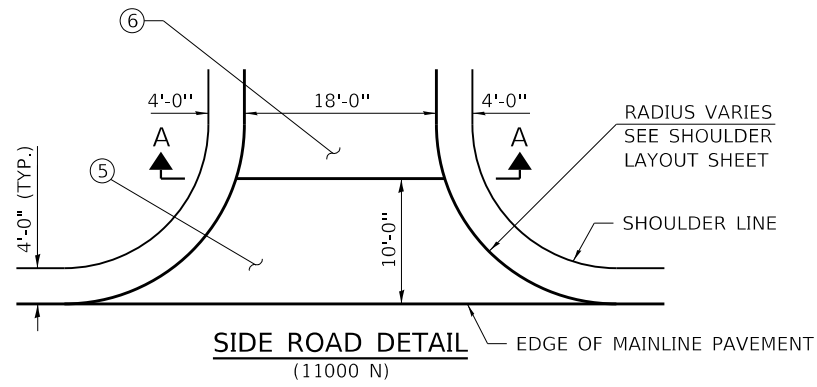
LOCATION	EARTH EXCAVATION	CHANNEL EXCAVATION	SHRINKAGE FACTOR	PERCENT USED	EXCAVATION ADJUSTED FOR SHRINKAGE	EMBANKMENT REQUIRED	EARTHWORK BALANCE
	CU.YD.	CU.YD.			CU.YD.	CU.YD.	CU.YD.
<b>CH 17 / FAS 1327</b>							
STA. 7+90.00 TO STA. 9+48.94	105		25.00%	100%	78	299	-221
STA. 9+48.94 TO STA. 10+51.06		115	25.00%	70%	60		60
STA. 10+51.06 TO STA. 12+15.00	154		25.00%	100%	115	233	-118
<b>11000 N</b>							
STA. 100+00 TO STA. 101+12.71	56		25.00%	100%	42	0	42
STA. 200+00 TO STA. 201+10	34		25.00%	100%	25	42	-17
<b>TOTAL</b>	<b>347</b>	<b>115</b>			<b>320</b>	<b>574</b>	<b>-254</b>
<b>USE</b>	<b>347</b>	<b>115</b>					<b>254</b>
FURNISHED EXCAVATION 254 CU YDS							

**GUARDRAIL SCHEDULE**

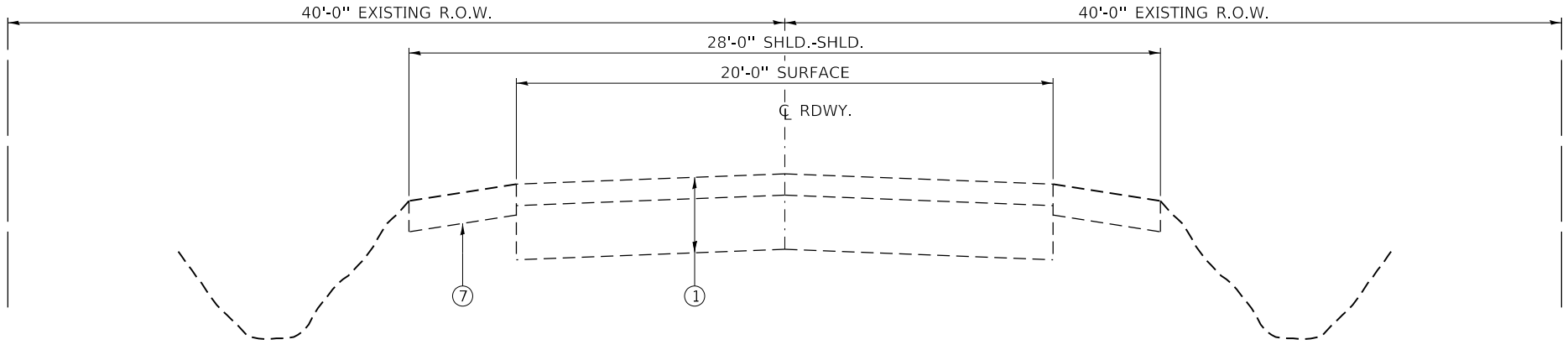
LOCATION	TRAFFIC BARRIER TERMINAL, TYPE 6A	TRAFFIC BARRIER TERMINAL, TYPE 6A (MODIFIED)	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT (MODIFIED)	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTORS, TYPE A
<b>CH 17 / FAS 1327</b>	EACH	EACH	EACH	EACH	EACH	EACH
SEE SHEET 6 FOR LAYOUT						
LT. STA. 8+46.00 TO LT. STA. 11+22.87	1	1	1	1	2	4
RT. STA. 8+77.13 TO RT. STA. 11+54.00	1	1	1	1	2	4
<b>TOTAL</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>2</b>	<b>4</b>	<b>8</b>

**ROADWAY SCHEDULE**

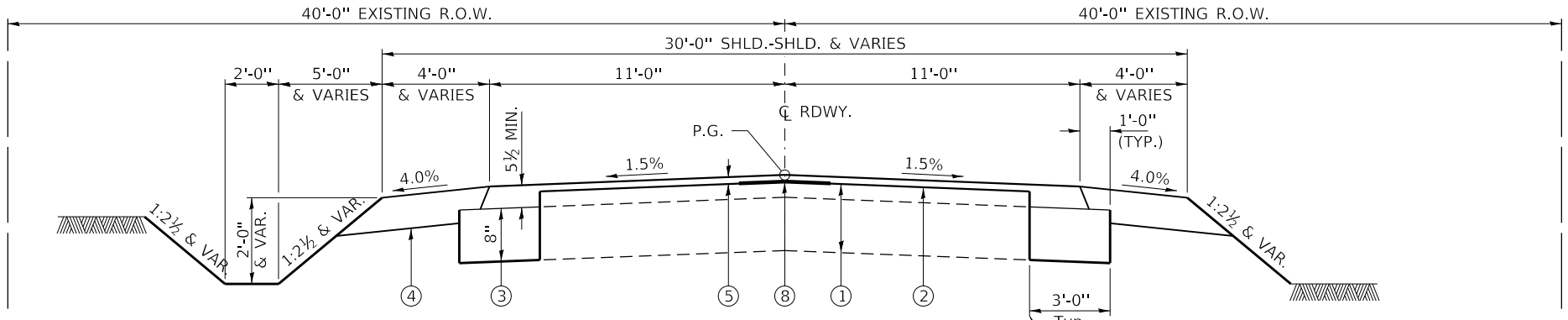
LOCATION	HMA BASE COURSE WIDENING 8"	AGGREGATE SURFACE COURSE, TYPE B	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	LONGITUDINAL JOINT SEALANT	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	AGGREGATE SHOULDERS, TYPE B
	SQ YD	TON	POUND	POUND	FOOT	SQ YD	TON	TON
<b>CH 17 / FAS 1327</b>								
STA. 7+90.00 TO STA. 9+48.94	105			174	159	86	44	113
STA. 9+48.94 TO STA. 10+51.06							35	
STA. 10+51.06 TO STA. 12+15.00	109			179	164	73	57	101
ABUTMENT BACKFILL			120	24			18	
<b>11000 N SIDEROADS</b>								
STA. 100+00.00 TO STA. 100+45.00		8		2			5	
STA. 200+00.00 TO STA. 201+10.00		21		2			4	
<b>TOTAL</b>	<b>214</b>	<b>29</b>	<b>120</b>	<b>381</b>	<b>323</b>	<b>159</b>	<b>163</b>	<b>214</b>



SECTION A-A



EXISTING TYPICAL CROSS SECTION  
STA. 7+90.00 TO STA. 12+15.00



PROPOSED TYPICAL CROSS SECTION

STA. 7+90.00 TO STA. 9+48.94  
STA. 10+51.06 TO STA. 12+15.00  
BRIDGE OMMISION  
STA. 9+48.94 TO STA. 10+51.06

TRANSITIONS FROM THE PROPOSED ROADWAY TO THE EXISTING ROADWAY ARE TO BE CONSTRUCTED FRO STA. 7+90 TO 8+40 AND STA. 11+65 TO STA. 12+15  
A BUTT JOINT SHALL BE MADE AT EACH END OF THE IMPROVEMENT, SEE DETAIL

SUGGESTED CUT SECTION  
CONSTRUCT AS SHOWN IN  
STATION CROSS SECTIONS

SUGGESTED FILL SECTION  
CONSTRUCT AS SHOWN IN  
STATION CROSS SECTIONS

SAW CUT EXISTING PAVEMENT AT  
9' LT. & RT. COST INVOLVED  
IN HMA BASE COURSE.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

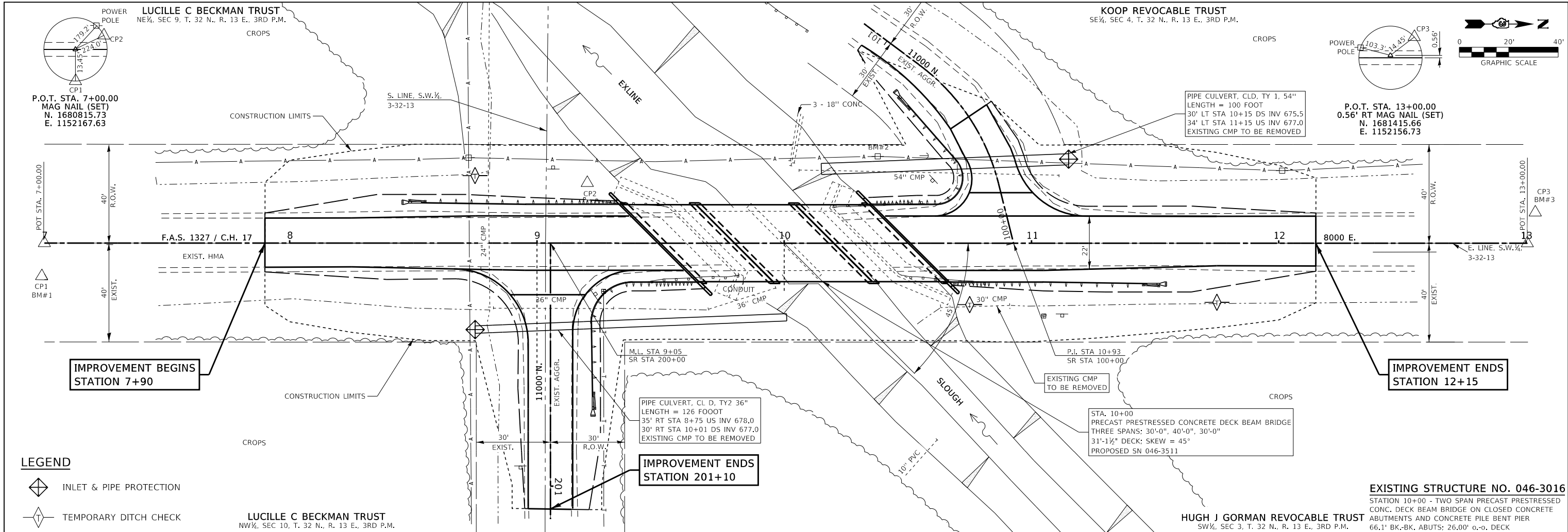
LOCATIONS(S)	CH 17 / FAS 1327	CH 17 / FAS 1327
MIXTURE USE(S):	HOT-MIX ASPHALT SURFACE COURSE	AGGREGATE BASE COURSE WIDENING
PG:	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4% @ 50 Gyr.	4% @ 50 Gyr.
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL 9.5	IL 19.0
FRICTION AGGREGATE:	MIXTURE C	NONE
MIXTURE WEIGHT:	112 LBS \ SY \ INCH THICKNESS	112 LBS \ SY \ INCH THICKNESS
QUALITY MANAGEMENT PROGRAM	QC/QA	QC/QA
SUBLOT SIZE	NA	NA
DENSITY TEST METHOD	CORES	CORES
MATERIAL TRANSFER DEVICE	NO	NO

LEGEND

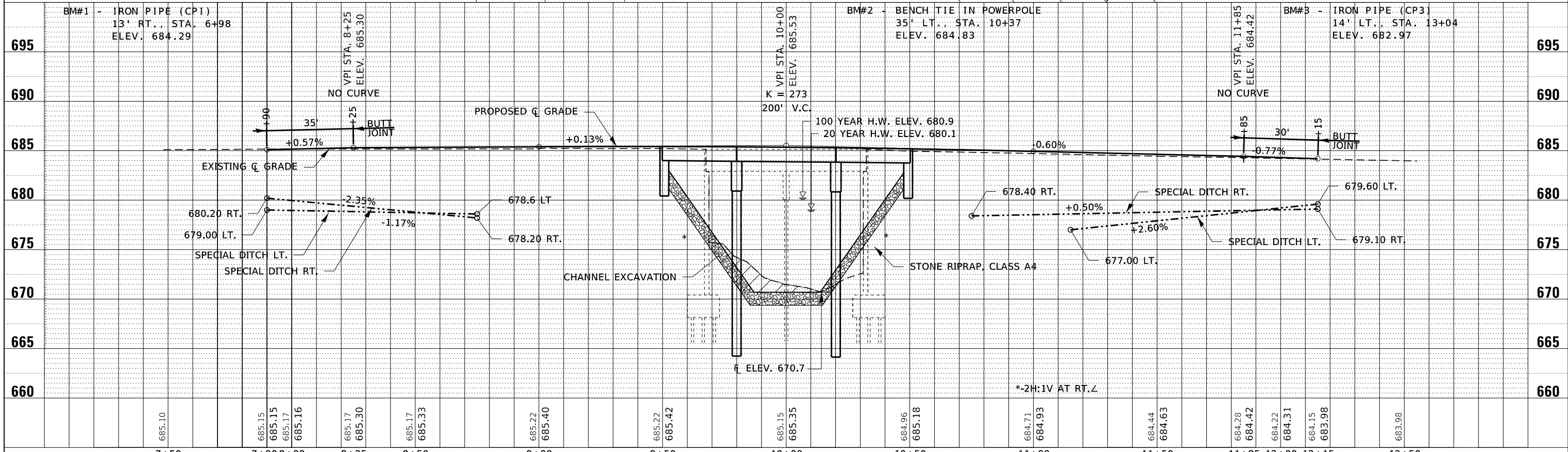
- ① EXISTING HMA SURFACE (4") ON AGGREGATE BASE (8")
- ② BITUMINOUS MATERIALS (TACK COAT)
- ③ HMA BASE COURSE WIDENING (8")
- ④ AGGREGATE SHOULDERS, TYPE B (6")
- ⑤ HMA SURFACE COURSE, IL-9.5, MIX "C", N50 (1 1/2" MIN & VARIES)
- ⑥ AGGREGATE SURFACE COURSE, TYPE B (2" MIN & VARIES)
- ⑦ EXISTING AGGREGATE SHOULDERS
- ⑧ LONGITUDINAL JOINT SEALANT

DATE	
BY	
REVIEWED	
PLANNED	
NOTED	
NO.	

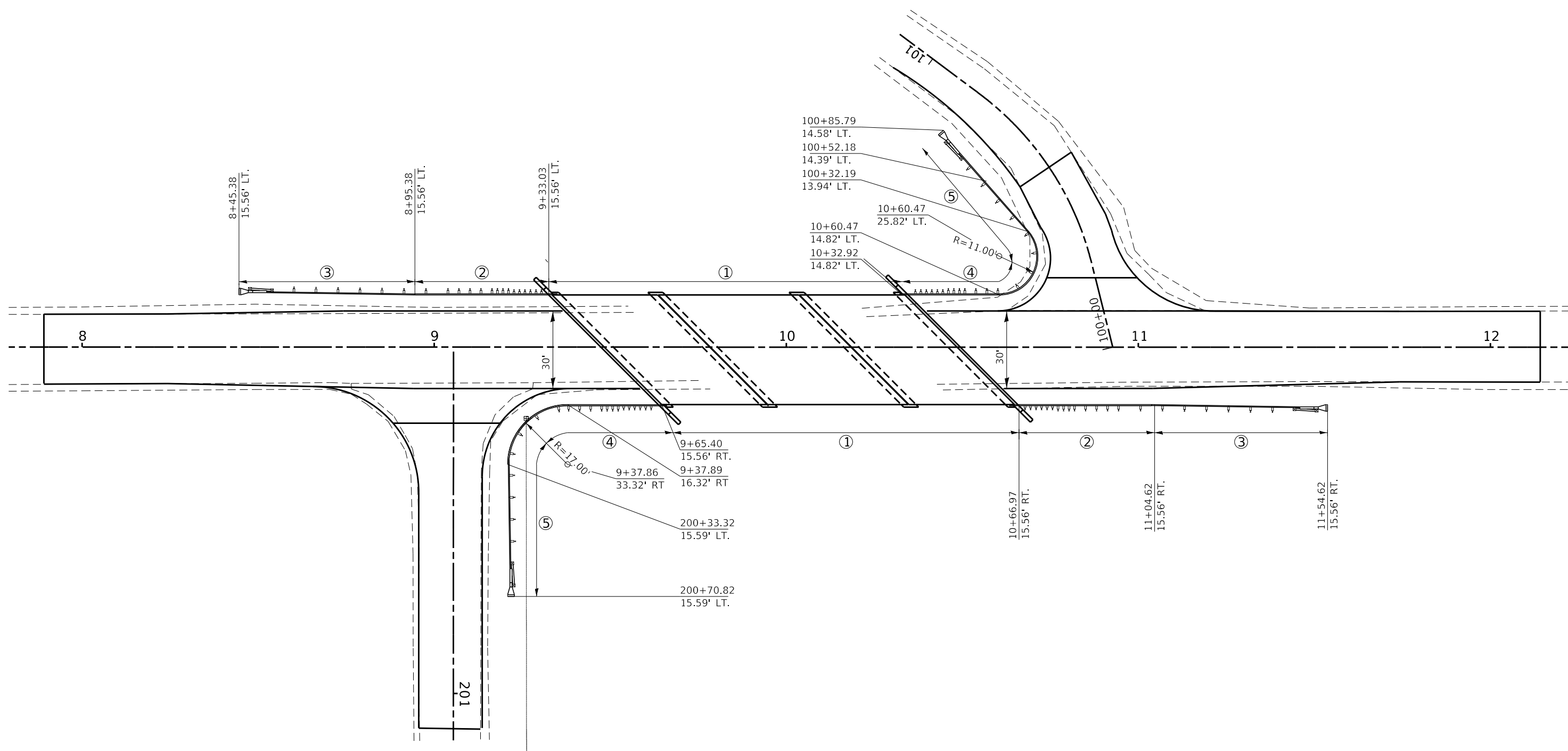
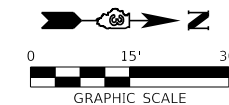
DATE	
BY	
REVIEWED	
PLANNED	
NOTED	
NO.	



- LEGEND**
- INLET & PIPE PROTECTION
  - TEMPORARY DITCH CHECK



FILE NAME = 230154-sht-planprLdgn	USER NAME = smierzwa	DESIGNED - S.A.A.	REVISED -	<b>STATE OF ILLINOIS</b> <b>KANKAKEE COUNTY HIGHWAY DEPARTMENT</b>	<b>PLAN &amp; PROFILE</b> <b>COUNTY HIGHWAY 17</b>	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC.		DRAWN - J.B.L.	REVISED -			1327	22-00304-00-BR	KANKAKEE	45	5	
3088 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62765 ILLINOIS PROFESSIONAL DESIGN FIRM L.S./P.E./S.E. CORP. 184.000959		CHECKED - J.W.F.	REVISED -			CONTRACT NO. 87835					
		DATE - 03/29/2024	REVISED -			ILLINOIS PROJECT NO. WIF6(885)					

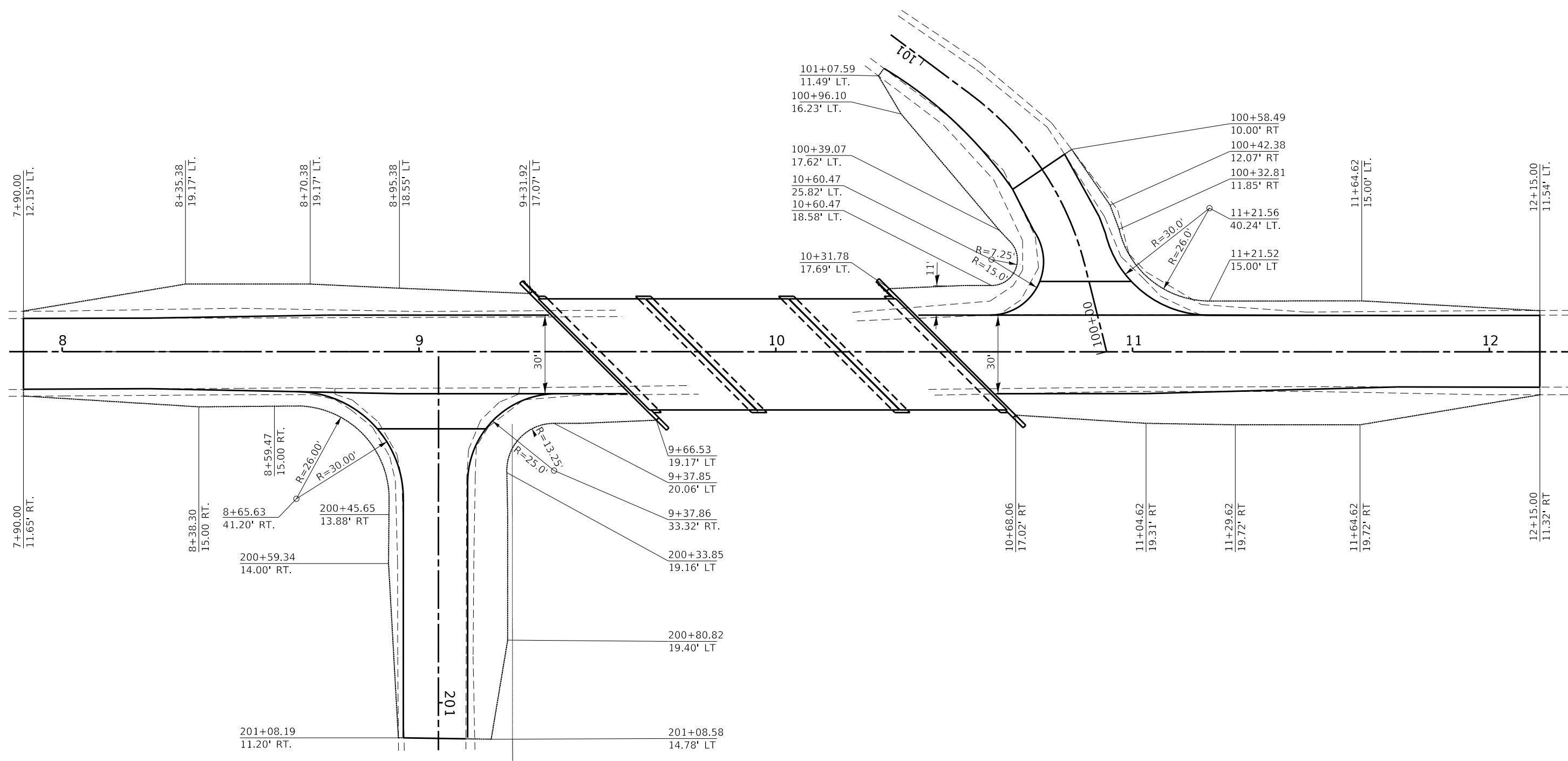
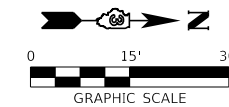


**GUARDRAIL LAYOUT**

**LEGEND**

- ① STEEL RAILING, TYPE SMX
- ② TBT TY 6A = 2 EACH
- ③ TBT TY 1, SPECIAL TANGENT = 2 EACH
- ④ TBT TY 6A (MODIFIED) = 2 EACH
- ⑤ TBT TY 1, SPECIAL TANGENT (MODIFIED) = 2 EACH

FILE NAME = 230154-shit-shdgrd.dgn	USER NAME = smierzwa	DESIGNED - J.R.B.	REVISED -	<b>STATE OF ILLINOIS KANKAKEE COUNTY HIGHWAY DEPARTMENT</b>	<b>GUARDRAIL LAYOUT</b>			F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
<b>HAMPTON, LENZINI AND RENWICK, INC.</b> 3088 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703	PLOT SCALE = \$SCALE\$	DRAWN - S.W.M.	REVISED -		SCALE: 1" = 30'	SHEET NO. 1 OF 2 SHEETS	STA. 7+90 TO	STA. 12+15	1327	22-00304-00-BR	KANKAKEE	45	6
<b>ILLINOIS PROFESSIONAL DESIGN FIRM</b> LS / PE / SE CORP. 184.000959	PLOT DATE = 4/2/2024	CHECKED - G.D.M.	REVISED -					C.H. 17	CONTRACT NO. 87883				
		DATE - 03/29/2024	REVISED -					ILLINOIS PROJECT NO. WFB(885)					



**SHOULDER LAYOUT**

FILE NAME = 230154-shl-shdgrt.dgn <b>HAMPTON, LENZINI AND RENWICK, INC.</b> <small>3065 STEVENSON DRIVE, SUITE 201          SPRINGFIELD, ILLINOIS 62703          ILLINOIS PROFESSIONAL DESIGN FIRM          LS / PE / SE CORP. 184.000959</small>	USER NAME = smierzwa	DESIGNED - J.R.B.	REVISED -	<b>STATE OF ILLINOIS          KANKAKEE COUNTY HIGHWAY DEPARTMENT</b>	<b>PAVEMENT AND SHOULDER LAYOUT</b>		F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = \$SCALE\$	CHECKED - G.D.M.	REVISED -		1327	22-00304-00-BR	KANKAKEE	45	7		
PLOT DATE = 4/2/2024	DATE - 03/29/2024	REVISED -		SCALE: 1" = 30'	SHEET NO. 2 OF 2 SHEETS	STA. 7+90 TO STA. 12+15	C.H. 17 CONTRACT NO. 87883 <small>ILLINOIS PROJECT NO. WFB(885)</small>				

BENCHMARK: Bench Tie in powerpole. 35' Lt., Sta. 10+37, Elev. 684.83

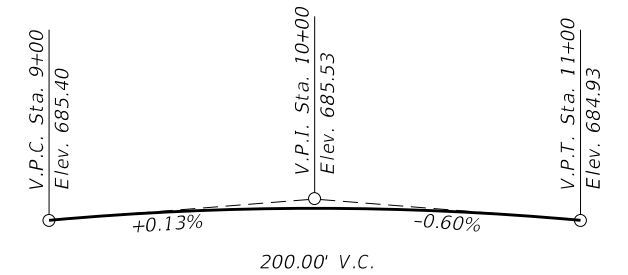
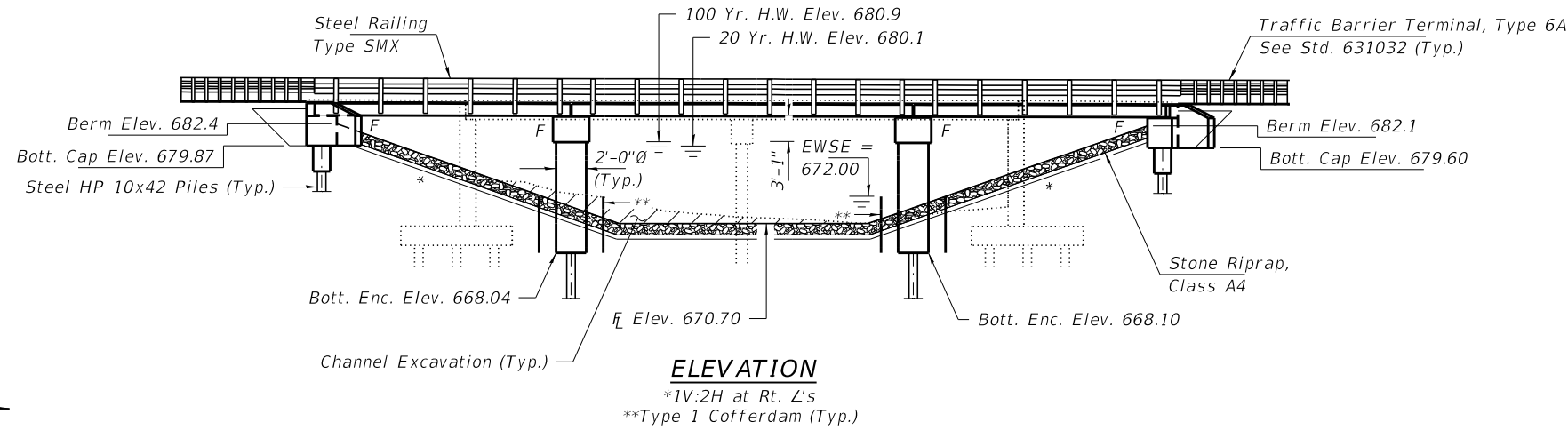
EXISTING STRUCTURE NO. 046-3016: Sta. 10+00  
Two span Cast In Place Concrete Slab Bridge on Closed Concrete Abutments and Wingwalls and Concrete Pile Bent Pier. 66.1' bk.-bk. abuts.; 26.0' o.-o. deck.

Structure will be closed to traffic during construction.

No Salvage

**INDEX OF STRUCTURE SHEETS**

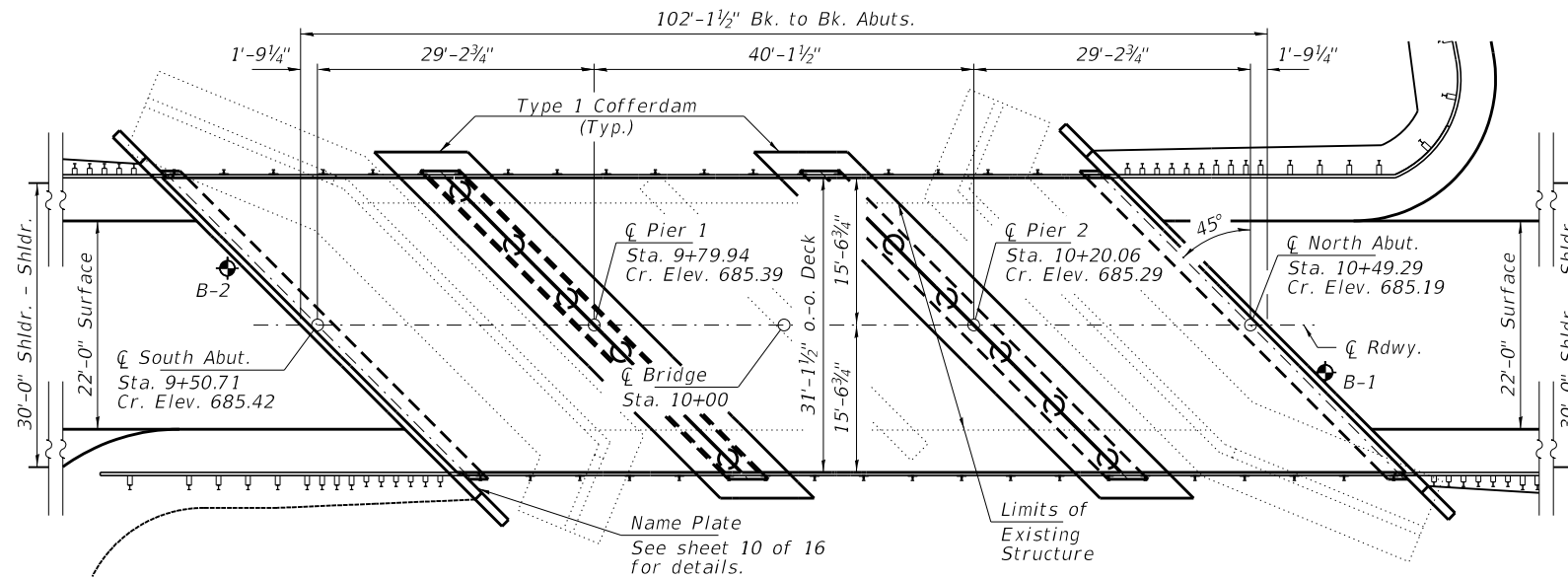
1. General Plan & Elevation
2. General Data
3. 17"x36" PPC Deck Beam (Spans 1&3)
4. 17"x36" PPC Deck Beam Details (Spans 1&3)
5. 17"x36" PPC Deck Beam (Span 2)
6. 17"x36" PPC Deck Beam Details (Span 2)
- 7-8. Superstructure Details
9. Steel Railing, Type SMX
10. South Abutment
11. North Abutment
12. Pier 1
13. Pier 2
14. HP Pile Details
- 15-16. Borings



**PROFILE GRADE**  
F.A.S. 1327

EXLINE SLOUGH  
BUILT 202\_ BY  
KANKAKEE COUNTY  
SEC. 22-00304-00-BR  
STR. NO. 046-3511  
LOADING HL-93

**NAME PLATE**  
See Std. 515001



**PLAN**

**DESIGN SCOUR ELEVATION TABLE**

Event/Limit State	Design Scour Elevations (ft.)				Item 113
	S. Abut.	Pier 1	Pier 2	N. Abut.	
Q100	679.9	661.8	661.8	679.6	5
Q200	679.9	661.0	661.0	679.6	
Design	679.9	661.8	661.8	679.6	
Check	679.9	661.0	661.0	679.6	

**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.)

**SEISMIC DATA**

Seismic Performance Zone (SPZ) = 1  
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.041g  
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.101g  
Soil Site Class = B

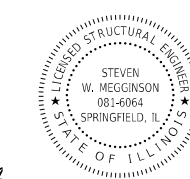
**WATERWAY INFORMATION**

Flood	Freq. Yr.	Q C.F.S.	Opening Sq. Ft.		Nat. Head - Ft.		Headwater El.		
			Exist.	Prop.	Exist.	Prop.	Exist.	Prop.	
Ten-Year	10	759	280	300	679.7	0.8	0.5	680.5	680.2
Design	20	920	300	320	680.1	0.8	0.4	680.9	680.5
Base	100	1,280	330	360	680.9	0.7	0.4	681.6	681.3
Scour Check	200	1,430	340	380	681.1	0.7	0.5	681.8	681.6
Max. Calc.	500	1,630	350	400	681.5	0.7	0.6	682.2	682.1

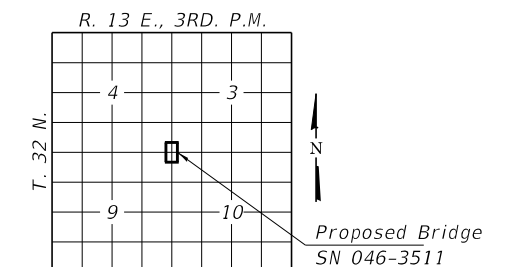
Existing Low Grade Elev. 682.4 @ Sta. 15+00  
Proposed Low Grade Elev. 682.4 @ Sta. 15+00  
Drainage Area = 14.5 Sq. Mi.

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 03-29-2024  
ILLINOIS STRUCTURAL ENGINEER NO. 081-6064



Expires 11-30-2024



**LOCATION SKETCH**

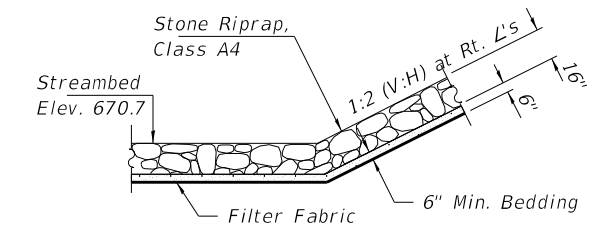
**GENERAL PLAN & ELEVATION**  
F.A.S. 1327 / C.H. 17 / 8000E  
**OVER EXLINE SLOUGH**  
**SECTION 22-00304-00-BR**  
**KANKAKEE COUNTY**  
**STATION 10+00**  
**STRUCTURE NO. 046-3511**

FILE NAME = 230154-shi-bridge.dgn	USER NAME = smlerzwa	DESIGNED - J.R.B.	REVISED -	STATE OF ILLINOIS KANKAKEE COUNTY HIGHWAY DEPARTMENT	GENERAL PLAN & ELEVATION STRUCTURE NO. 046-3511	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC.		CHECKED - S.W.M.	REVISED -			1327	22-00304-00-BR	KANKAKEE	45	8	
3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALE\$	DRAWN - G.D.M.	REVISED -			CONTRACT NO. 87835					
PLOT DATE = 4/2/2024		CHECKED - S.W.M.	REVISED -			ILLINOIS PROJECT NO. WF6(885)					

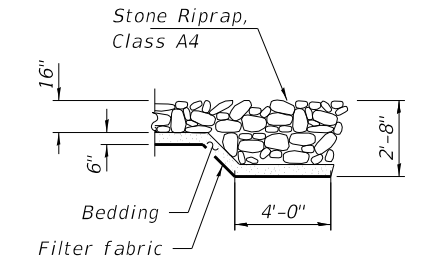


**GENERAL NOTES**

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 South Abutment and Pier 2 or approved by the Engineer before ordering the remainder of piles.  
 Reinforcement bars shall conform to the requirements of ASTM A 706 Gr 60. See Special Provisions.  
 All bars to be epoxy coated.  
 Excavation required to construct the Abutments shall be included in the cost of Concrete Structures. Excavation required to construct cofferdams shall be included in the cost of Concrete Encasement. No additional compensation will be allowed for Structure Excavation or Cofferdam 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.  
 Protective Coat shall be applied to the top and front face of wingwalls.



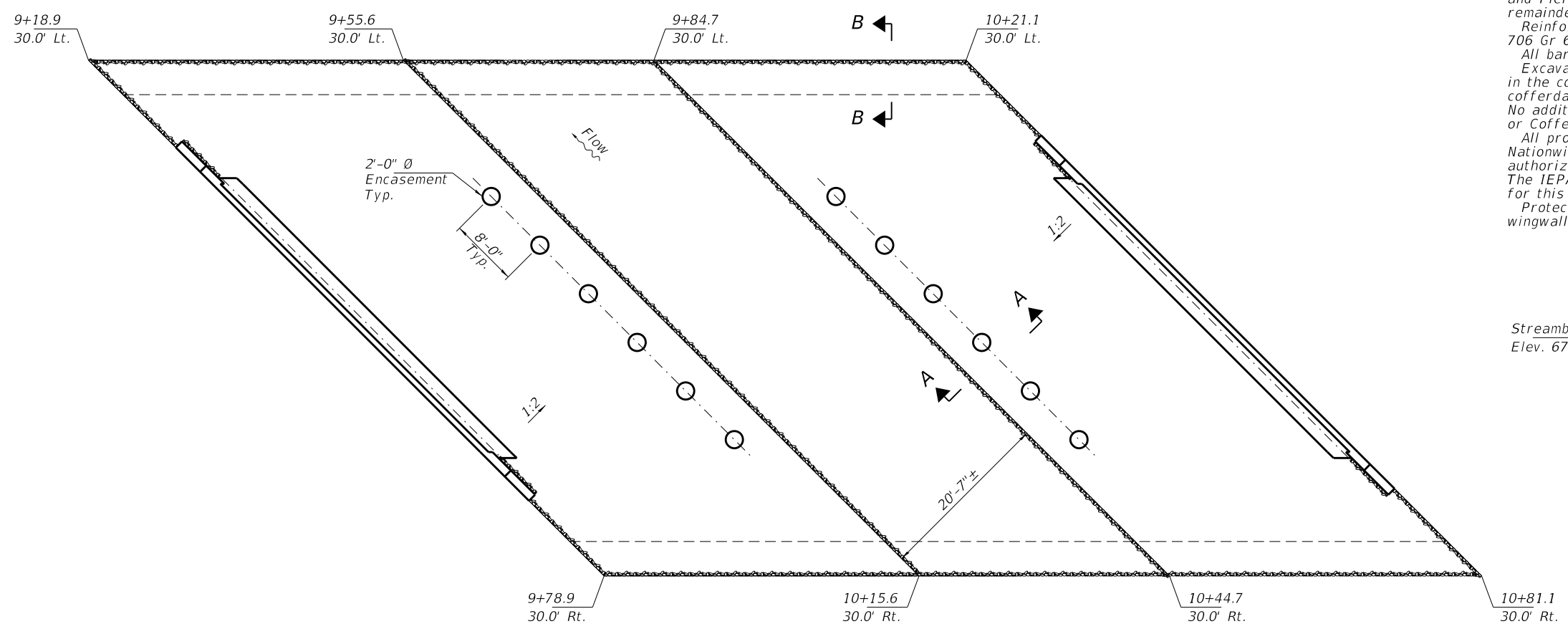
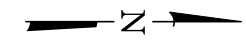
**SECTION A-A**



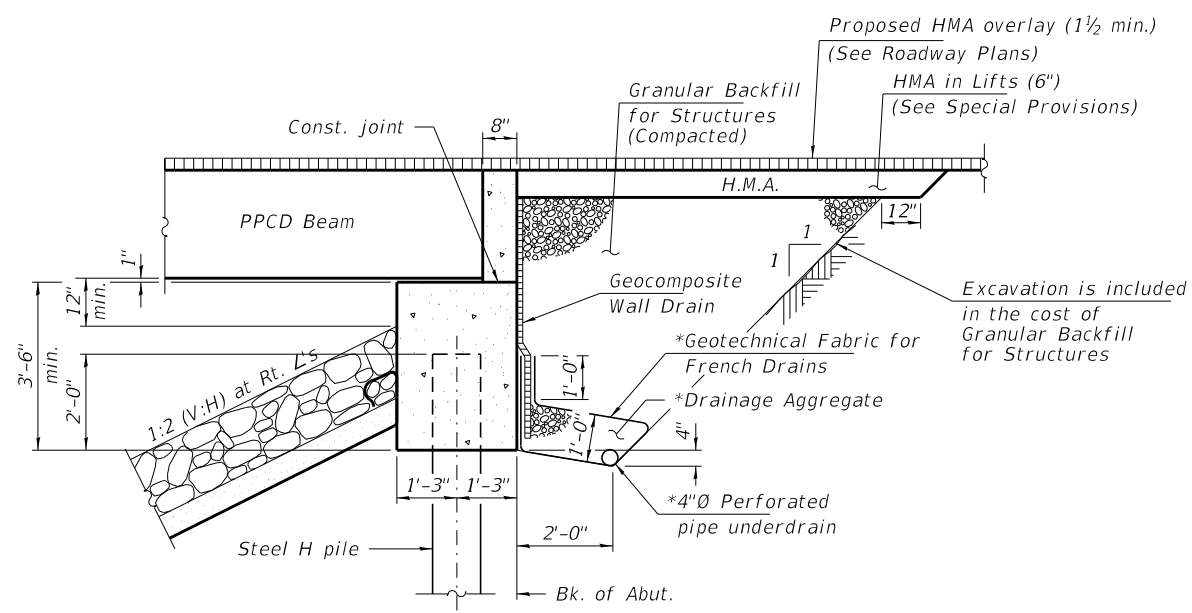
**SECTION B-B**

**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.			115
Stone Riprap, Class A4	Ton			640
Filter Fabric	Sq. Yd.			700
Hot-Mix Asphalt Surface Course, IL-9.5, Mix "C", N50	Ton	35		35
Removal of Existing Structures	Each			1
Cofferdam (Type 1) (Location-1)	Each		1	1
Cofferdam (Type 1) (Location-2)	Each		1	1
Concrete Structures	Cu. Yd.		76.0	76.0
Concrete Encasement	Cu. Yd.		17.0	17.0
Protective Coat	Sq. Yd.		20	20
Precast Prestressed Conc. Deck Beams (17" Depth)	Sq. Ft.	3,000		3,000
Reinforcement Bars, Epoxy Coated	Pound		8,540	8,540
Steel Railing, Type SMX	Foot	204		204
Furnishing Steel Piles HP10x42	Foot		990	990
Driving Piles	Foot		990	990
Test Pile Steel HP10x42	Each		2	2
Name Plates	Each		1	1
Waterproofing Membrane System	Sq. Yd.	353		353
P.C. Mortar Fairing Course	Foot	225		225
Granular Backfill for Structures	Cu. Yd.		90	90
Geocomposite Wall Drain	Sq. Yd.		56	56
Concrete Headwalls for Pipe Drains	Each		4	4
Pipe Underdrains for Structures 4"	Foot		152	152



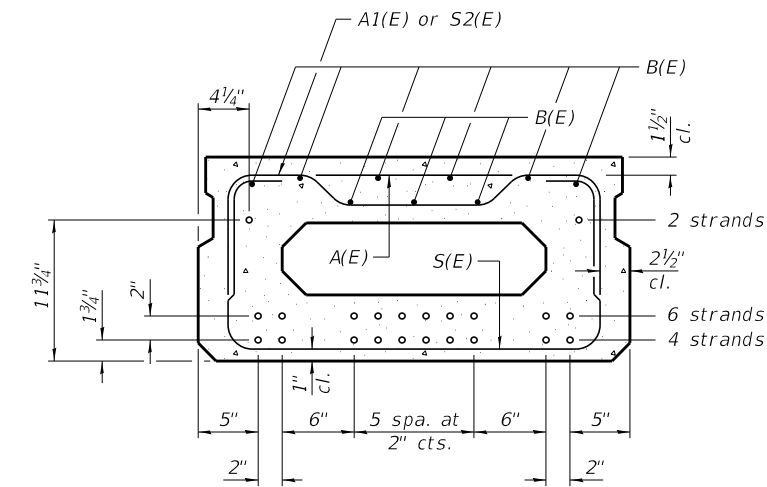
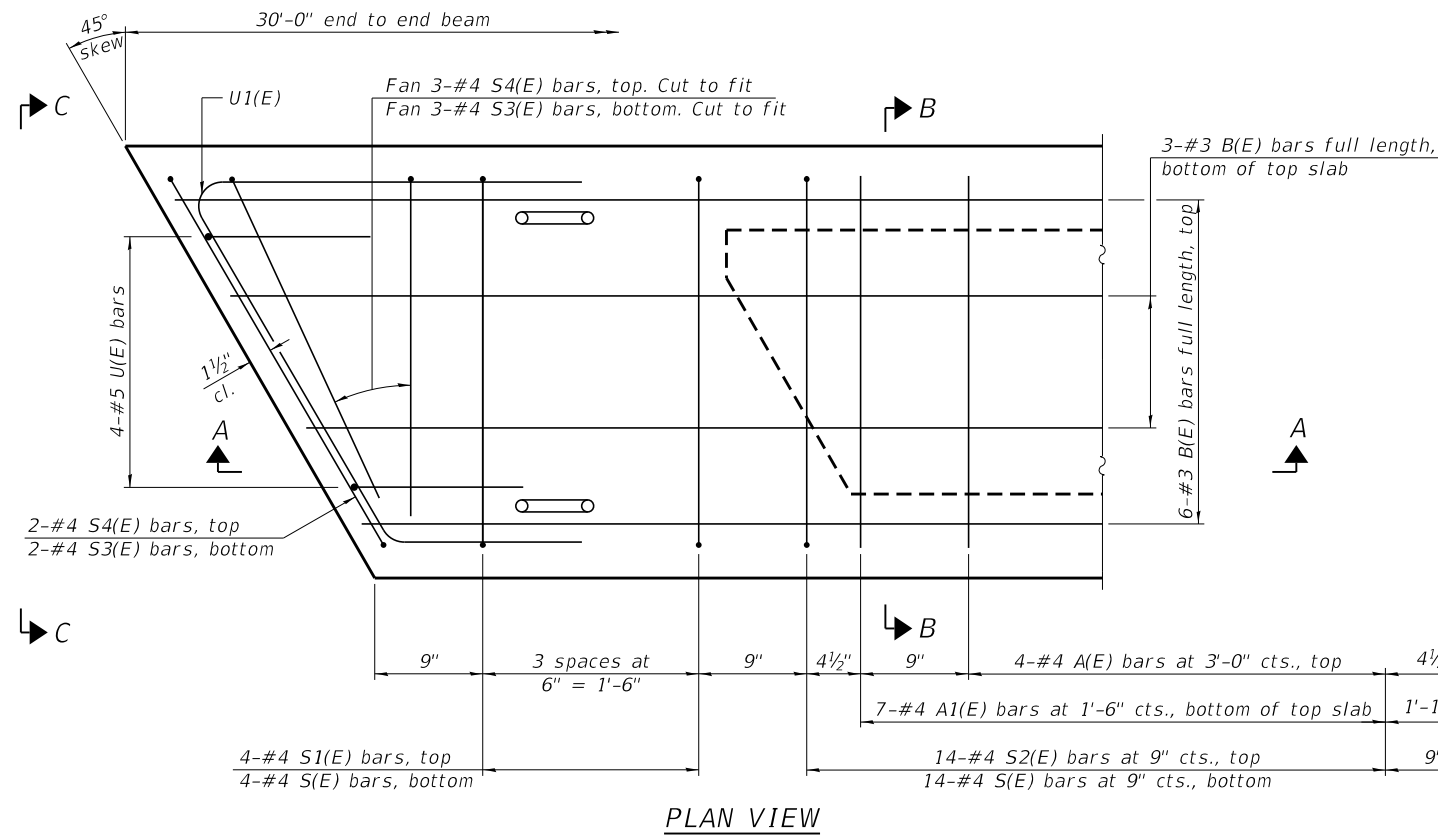
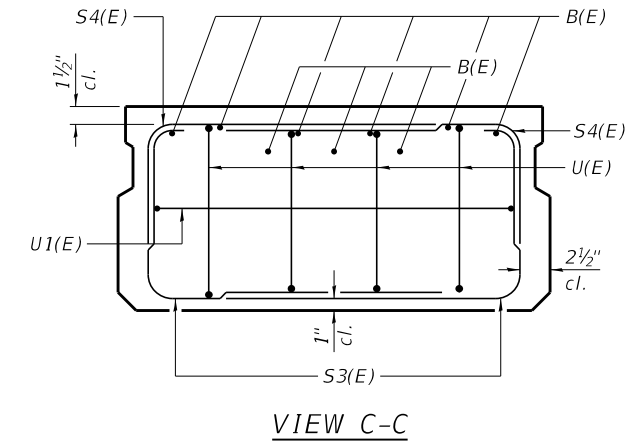
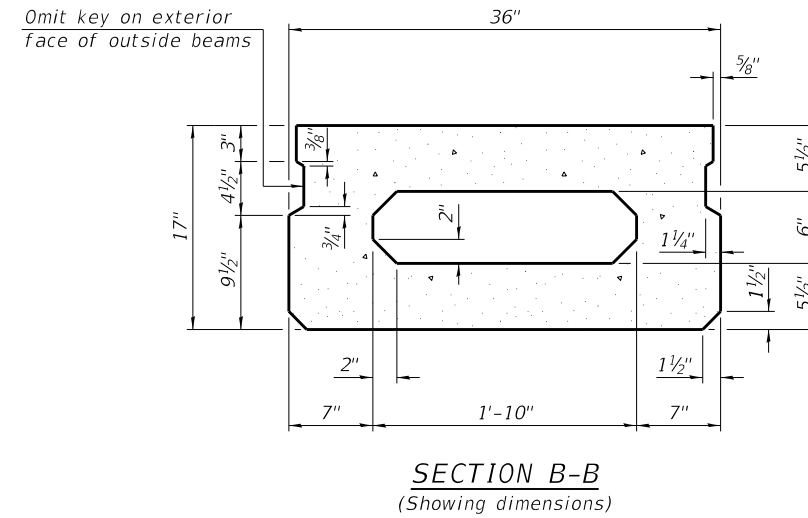
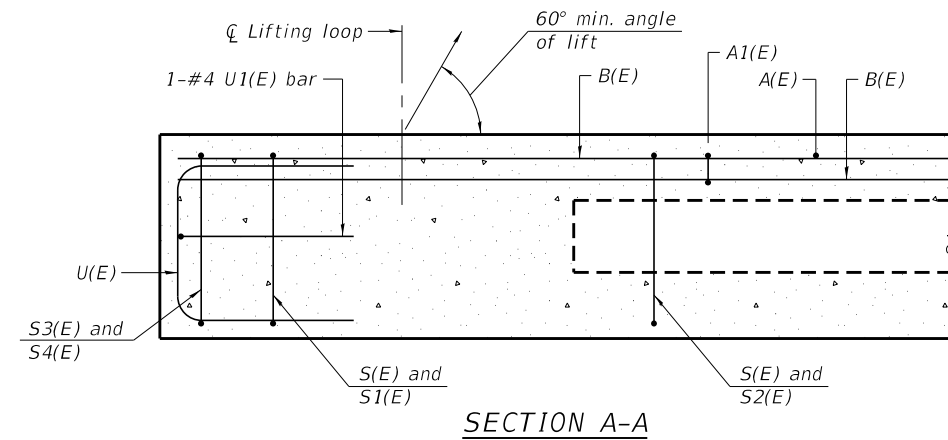
**RIPRAP LAYOUT**



**SECTION THRU 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).

\*Included in the cost of Pipe Underdrains for Structures 4". (See Special Provisions)



Similar about  $\bar{C}$

1-#4 A1(E) bar, at  $\bar{C}$  bottom of top slab  
 1-#4 S2(E) bar, at  $\bar{C}$  top  
 1-#4 S(E) bar, at  $\bar{C}$  bottom

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

Bar	No.	Size	Length	Shape
A(E)	8	#4	2'-7"	—
A1(E)	15	#4	2'-10"	—
B(E)	9	#3	29'-9"	—
S(E)	37	#4	5'-9"	⌊
S1(E)	8	#4	4'-3"	⌊
S2(E)	29	#4	4'-6"	⌊
S3(E)	10	#4	4'-6"	⌊
S4(E)	10	#4	3'-9"	⌊
U(E)	8	#5	3'-8"	⌊
U1(E)	2	#4	8'-6"	⌊

Note:  
 Spacing of S(E), S1(E), and S2(E) bars may be adjusted up to 4" in the immediate area of the post tensioned transverse tie diaphragms to miss the block outs for the post tensioned transverse ties.

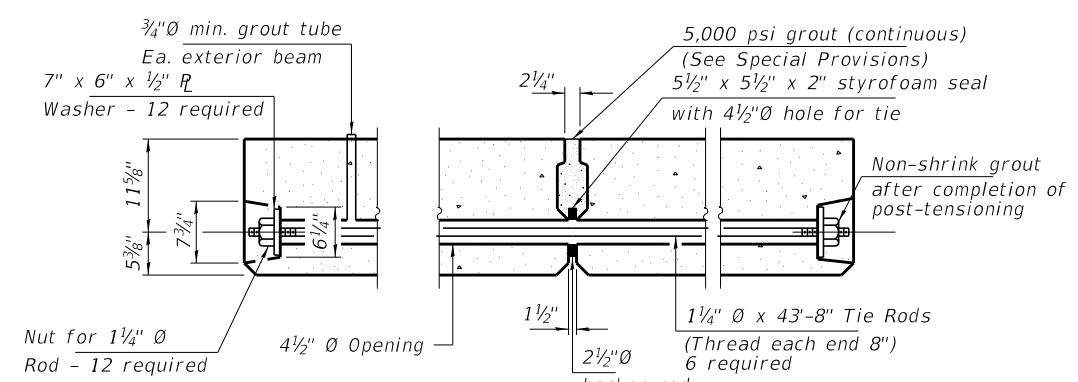
**MINIMUM BAR LAP**  
 #3 bar = 1'-6"

Note:  
 See sheets 4 thru 8 of 16 for additional details and Bill of Material.

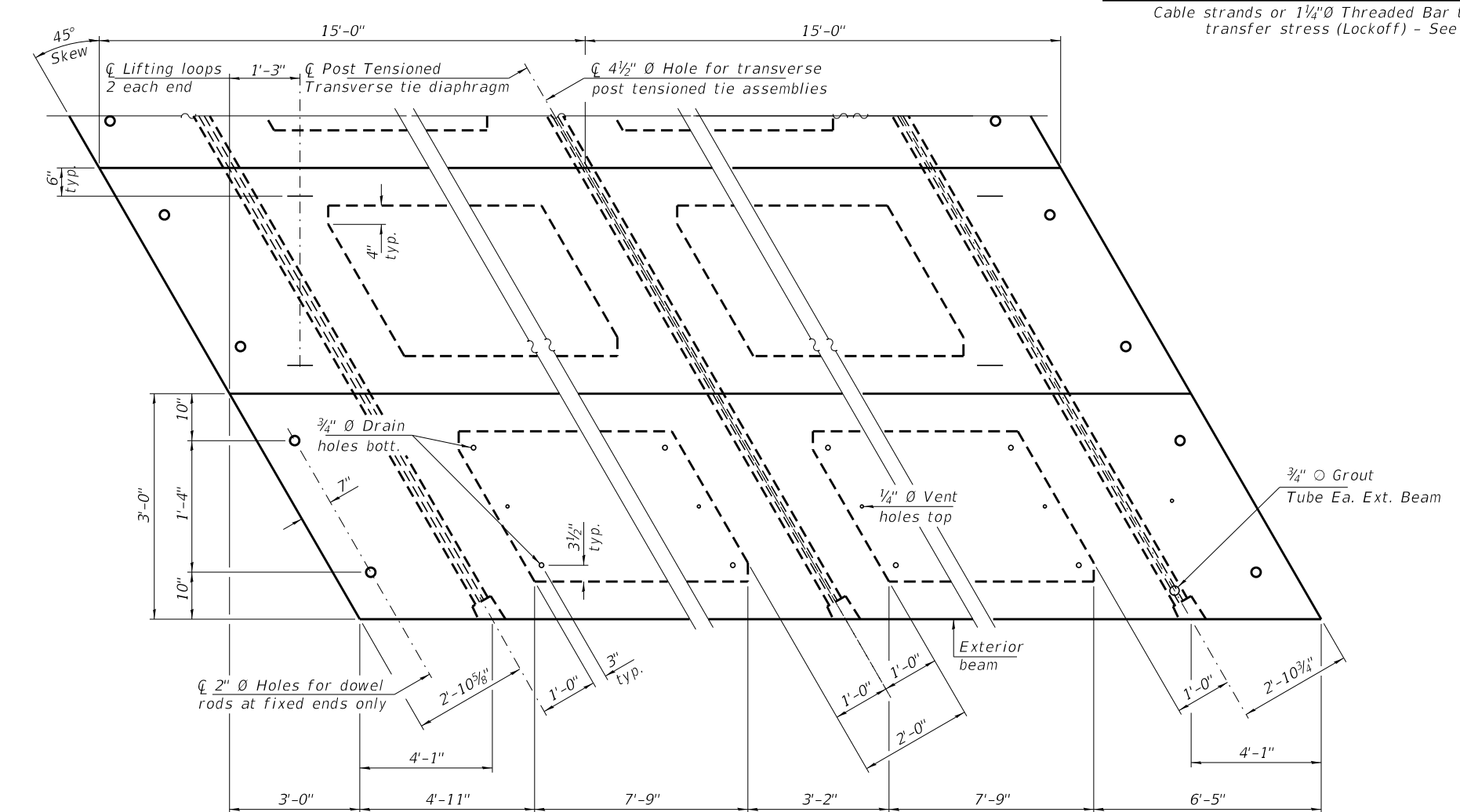
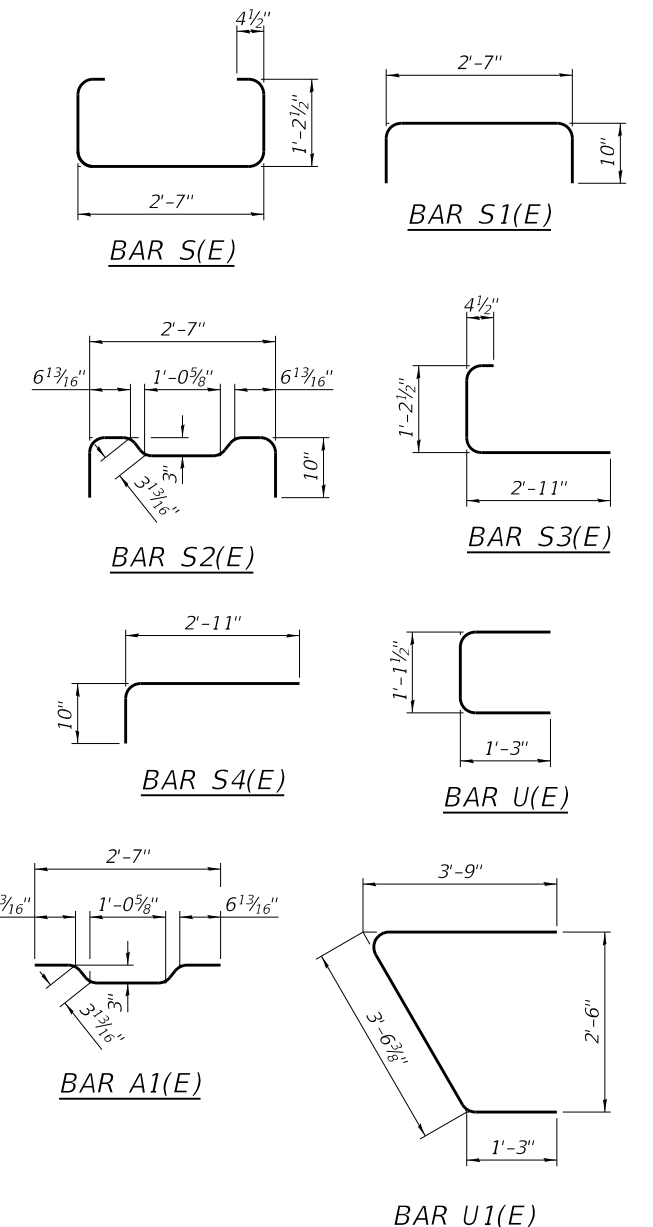
PD-1736-R

5-15-2023

FILE NAME = 230154-shi-bridge.dgn	USER NAME = smierzwa	DESIGNED - J.R.B.	REVISED -	<b>STATE OF ILLINOIS KANKAKEE COUNTY HIGHWAY DEPARTMENT</b>	<b>17" x 36" PPC DECK BEAM - SPANS 1&amp;3 STRUCTURE NO. 046-3511</b>	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	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -			1327	22-00304-00-BR	KANKAKEE	45	10	
	PLOT DATE = 4/2/2024	DRAWN - G.D.M.	REVISED -			CONTRACT NO. 87835					
		CHECKED - S.W.M.	REVISED -			SHEET NO. 3 OF 16 SHEETS					



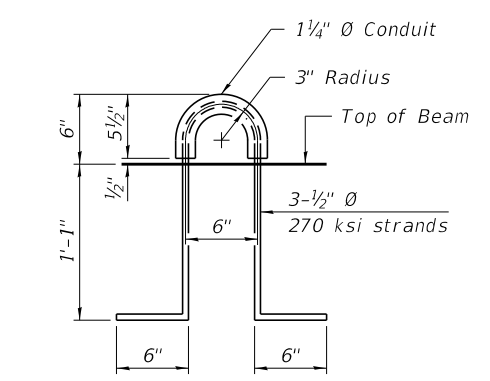
**TYPICAL POST-TENSIONED TRANSVERSE TIE ASSEMBLY**  
 Cable strands or 1 1/4" Ø Threaded Bar tensioned to 120 kip max. transfer stress (Lockoff) - See Special Provisions



**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 1/4" Ø rods in the post tensioned 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 post tensioned transverse tie rods are in place. A minimum 2 1/2" Ø 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.



**LIFTING LOOP DETAIL**

**BILL OF MATERIAL**

Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	1,800
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PDD-1736-R

5-15-2023

FILE NAME = 230154-shi-bridge.dgn	USER NAME = smierzwa
<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 = \$SCALE\$	PLOT DATE = 4/2/2024

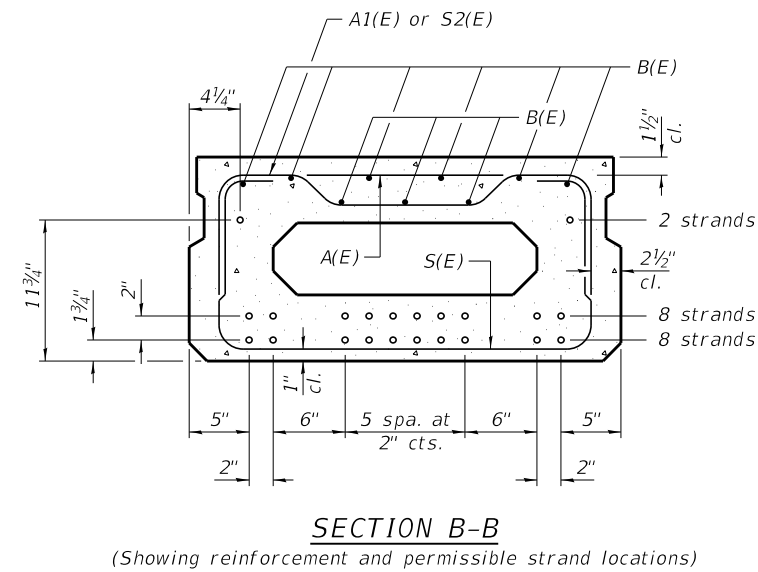
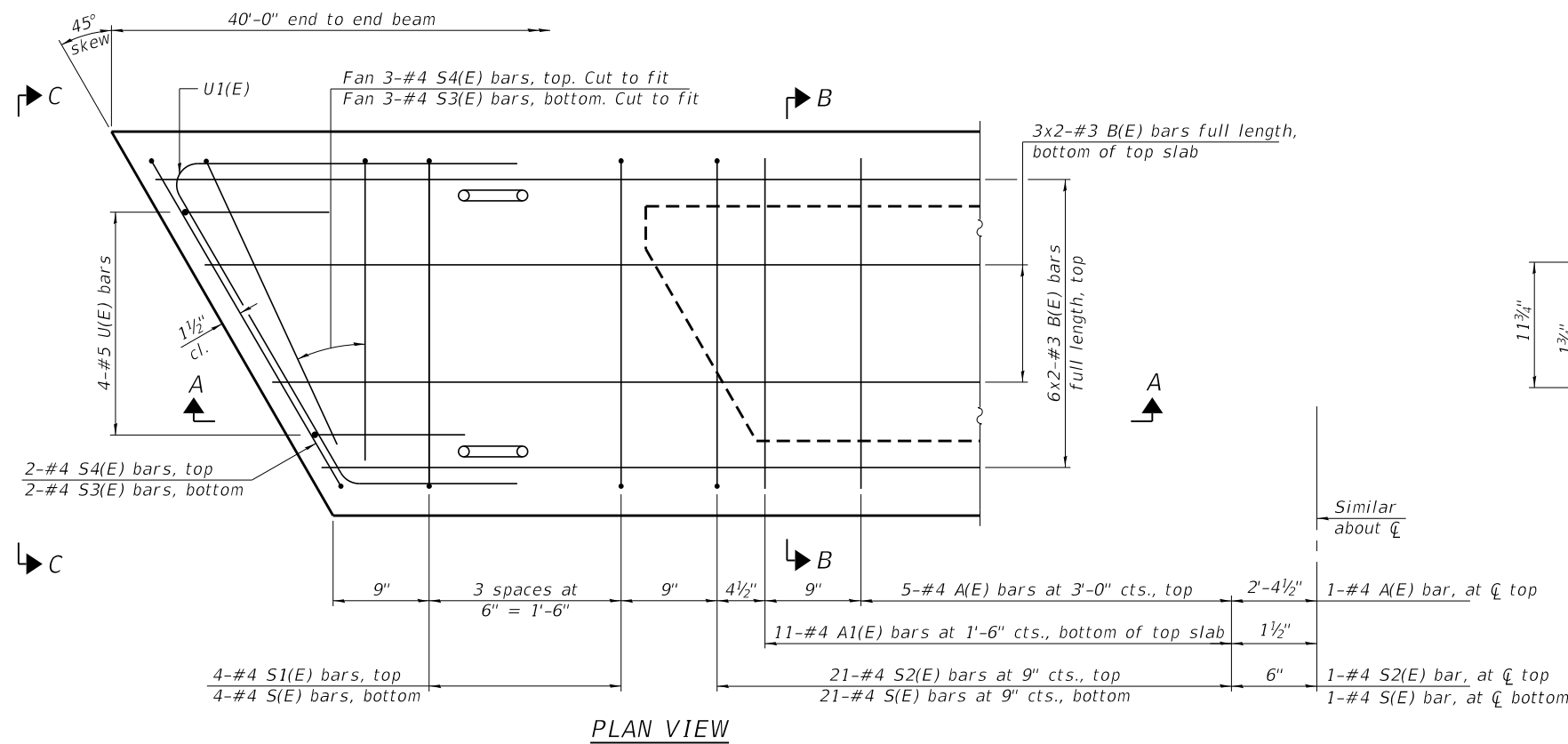
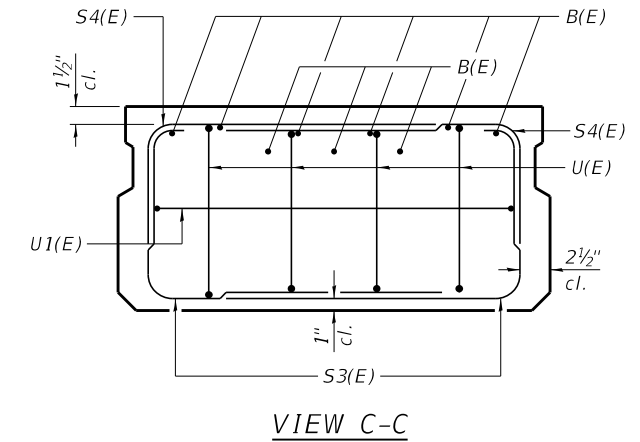
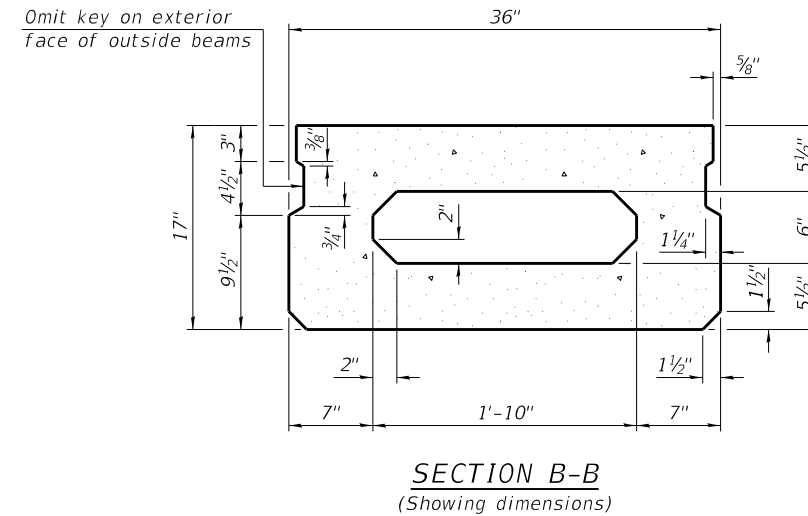
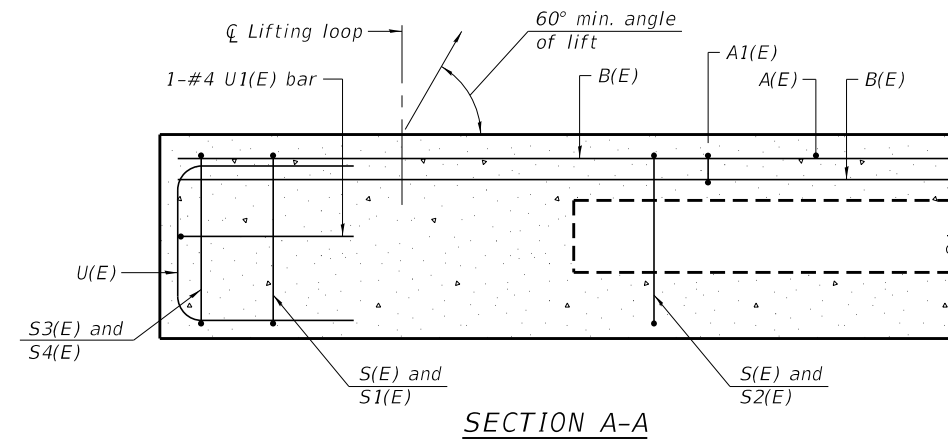
DESIGNED - J.R.B.	REVISED -
CHECKED - S.W.M.	REVISED -
DRAWN - G.D.M.	REVISED -
CHECKED - S.W.M.	REVISED -

**STATE OF ILLINOIS  
 KANKAKEE COUNTY HIGHWAY DEPARTMENT**

**17" x 36" PPC DECK BEAM DETAILS - SPANS 1&3  
 STRUCTURE NO. 046-3511**

SHEET NO. 4 OF 16 SHEETS

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1327	22-00304-00-BR	KANKAKEE	45	11
CONTRACT NO. 87835				
ILLINOIS PROJECT NO. WFB(885)				



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

Bar	No.	Size	Length	Shape
A(E)	11	#4	2'-7"	—
A1(E)	22	#4	2'-10"	—
B(E)	18	#3	20'-8"	—
S(E)	51	#4	5'-9"	┌
S1(E)	8	#4	4'-3"	┌
S2(E)	43	#4	4'-6"	┌
S3(E)	10	#4	4'-6"	┌
S4(E)	10	#4	3'-9"	┌
U(E)	8	#5	3'-8"	┌
U1(E)	2	#4	8'-6"	┌

Note:  
Spacing of S(E), S1(E), and S2(E) bars may be adjusted up to 4" in the immediate area of the transverse post tensioned tie diaphragms to miss the block outs for the post tensioned transverse ties.  
Bars indicated thus 6x2-#3 etc. indicates 6 lines of bars with 2 lengths per line

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

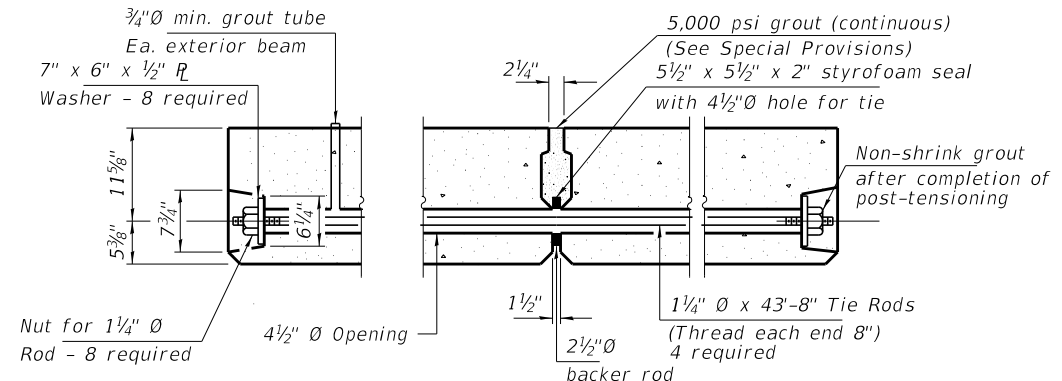
Note:  
See sheets 3, 4 & 6 thru 8 of 16 for additional details and Bill of Material.

PD-1736-R

5-15-2023

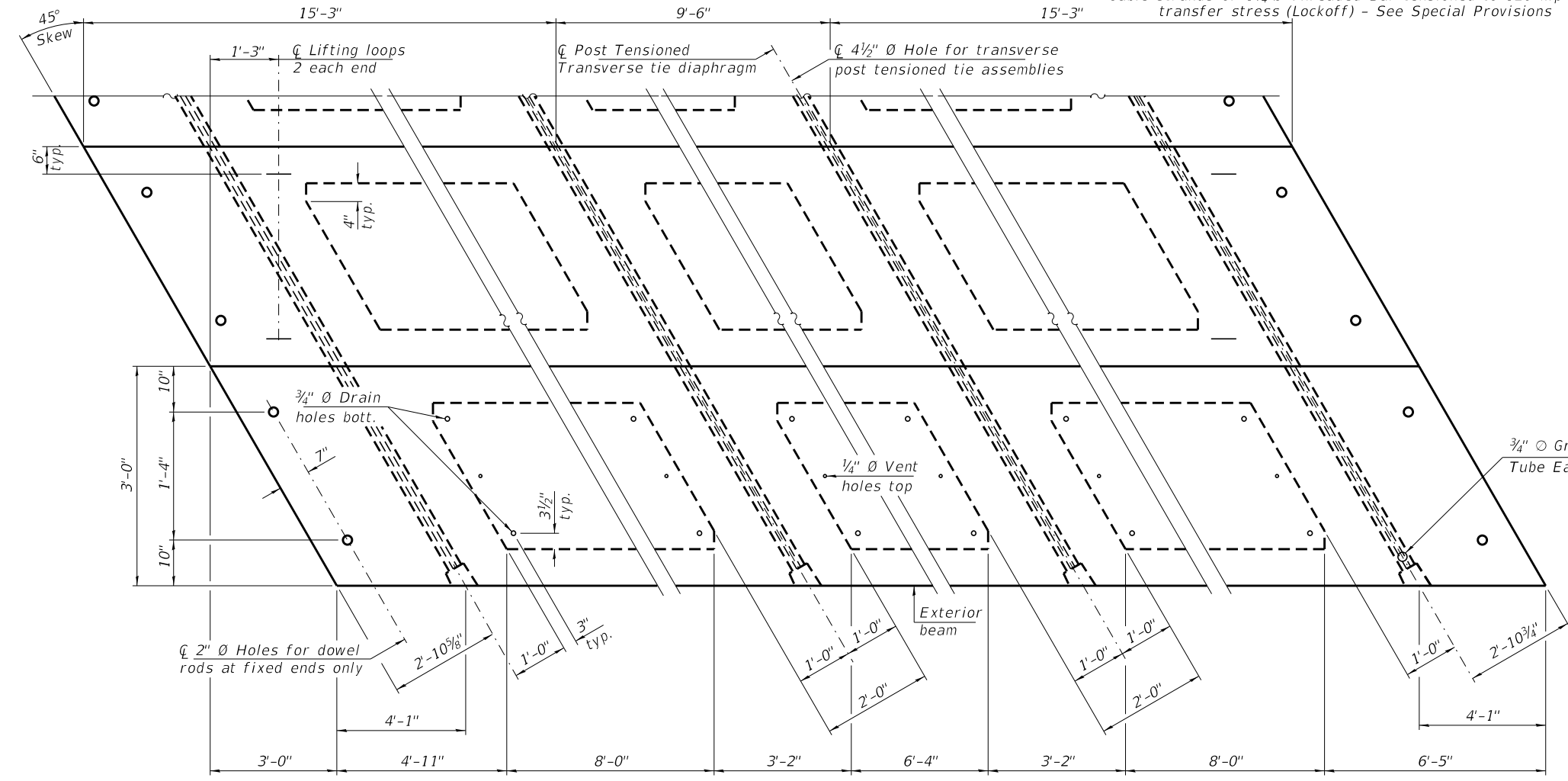
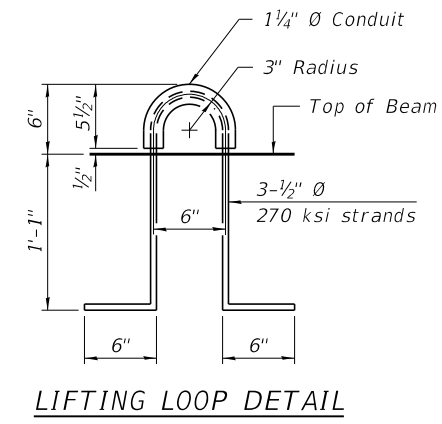
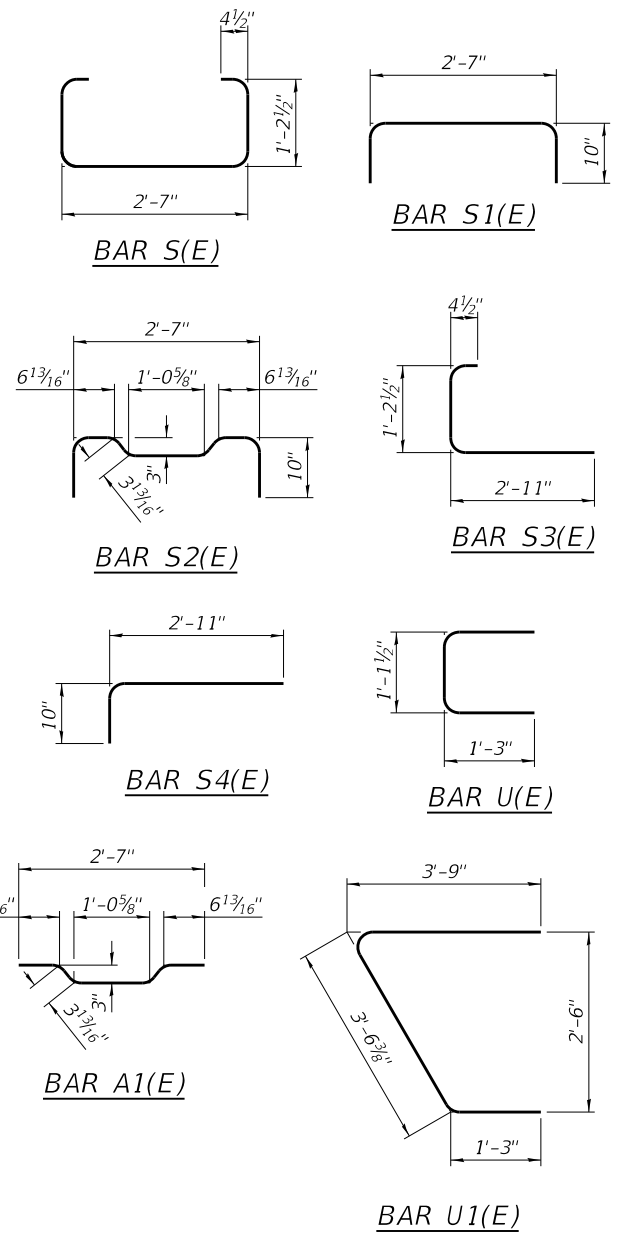
FILE NAME = 230154-shi-bridge.dgn	USER NAME = smierzwa	DESIGNED - J.R.B.	REVISED -	<b>STATE OF ILLINOIS KANKAKEE COUNTY HIGHWAY DEPARTMENT</b>	<b>17" x 36" PPC DECK BEAM - SPAN 2 STRUCTURE NO. 046-3511</b>	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
HAMPTON, LENZINI AND RENWICK, INC. 3035 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.000959	PLOT SCALE = \$SCALE\$	CHECKED - S.W.M.	REVISED -			1327	22-00304-00-BR	KANKAKEE	45	12	
	PLOT DATE = 4/2/2024	DRAWN - G.D.M.	REVISED -			CONTRACT NO. 87835					
		CHECKED - S.W.M.	REVISED -			SHEET NO. 5 OF 16 SHEETS					

ILLINOIS PROJECT NO. WF6(885)



**TYPICAL POST-TENSIONED TRANSVERSE TIE ASSEMBLY**

Cable strands or 1 1/4" Ø Threaded Bar tensioned to 120 kip max. transfer stress (Lockoff) - See Special Provisions



**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 1/4" Ø rods in the post tensioned 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 post tensioned transverse tie rods are in place. A minimum 2 1/2" Ø 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.

**BILL OF MATERIAL**

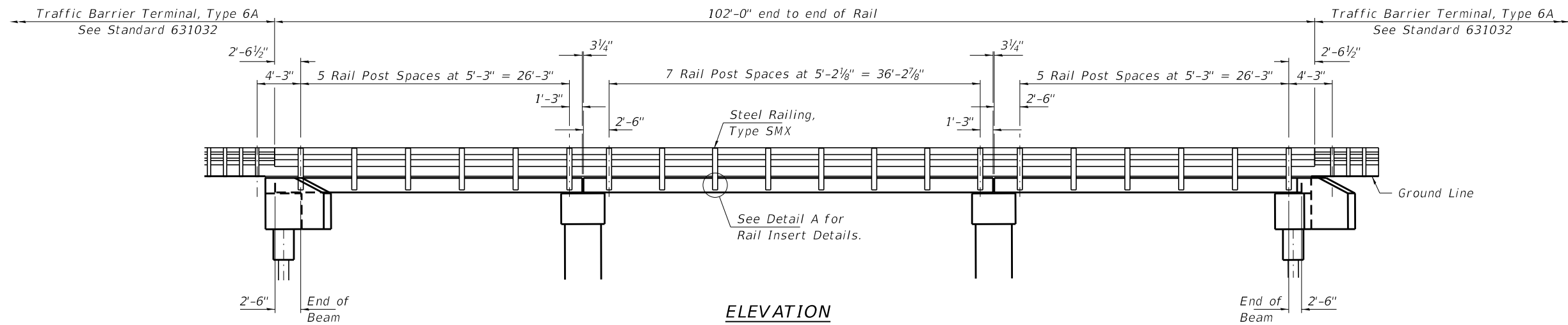
Precast Prestressed Conc. Deck Bms. (17" depth)	Sq. Ft.	1,200
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PDD-1736-R

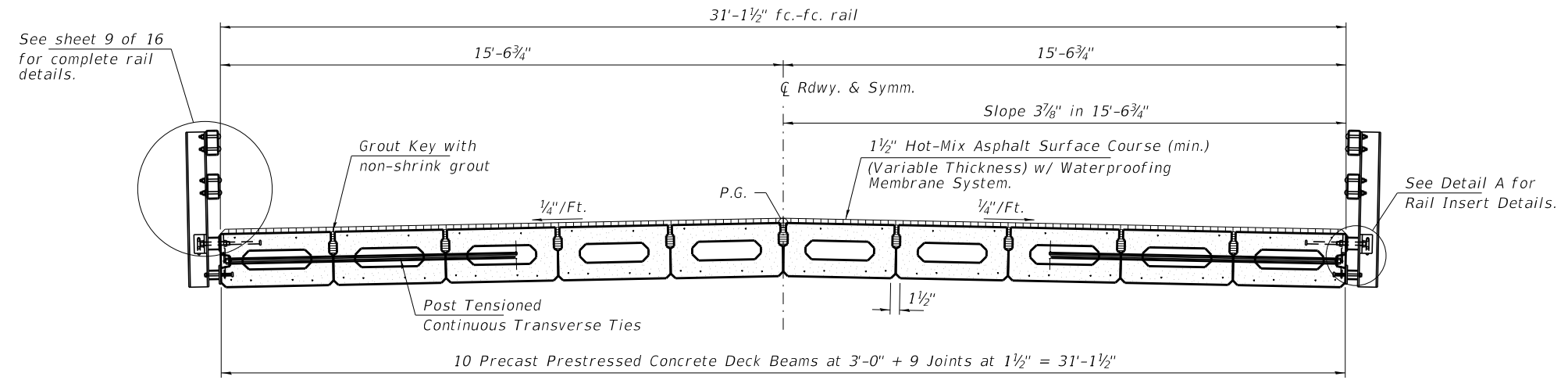
5-15-2023

FILE NAME = 230154-shi-bridge.dgn	USER NAME = smierzwa	DESIGNED - J.R.B.	REVISED -	<b>STATE OF ILLINOIS KANKAKEE COUNTY HIGHWAY DEPARTMENT</b>	<b>17" x 36" PPC DECK BEAM DETAILS - SPAN 2 STRUCTURE NO. 046-3511</b>	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 -			1327	22-00304-00-BR	KANKAKEE	45	13	
	PLOT DATE = 4/2/2024	DRAWN - G.D.M.	REVISED -			CONTRACT NO. 87835					
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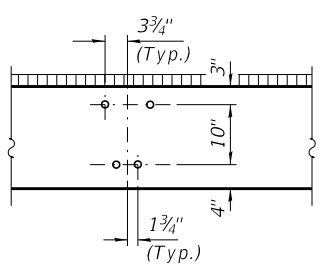
ILLINOIS PROJECT NO. WFB(885)



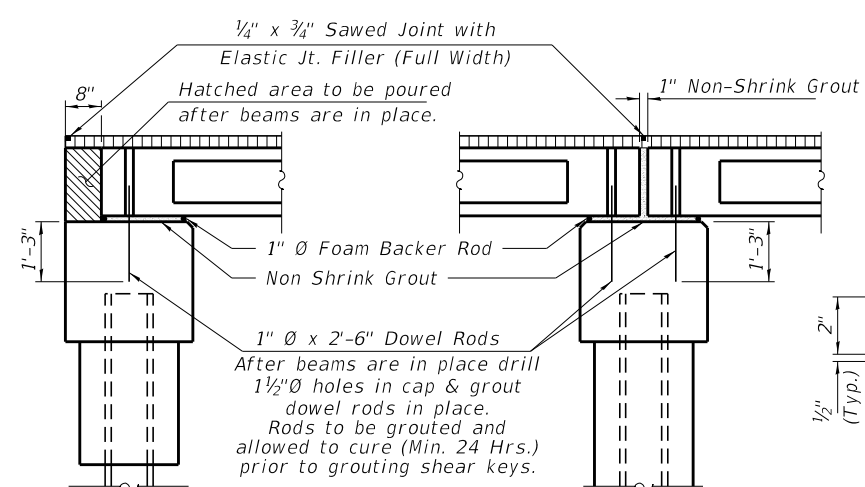
**ELEVATION**  
Showing Rail Post Spacing  
See sheet 9 of 16 for Railing Details.



**CROSS SECTION**  
See sheets 3 thru 6 of 16 for Superstructure Details.

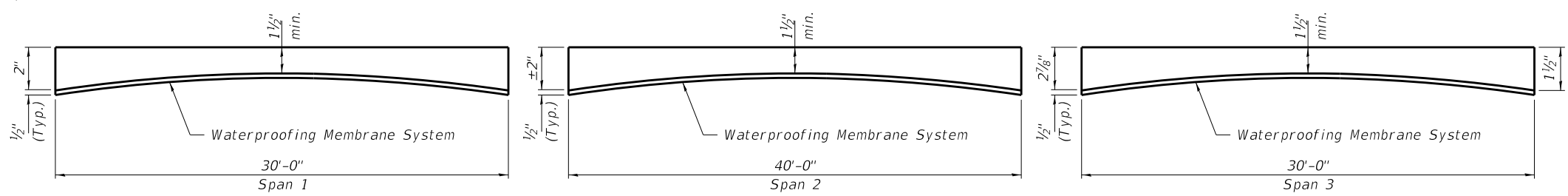


**DETAIL A**



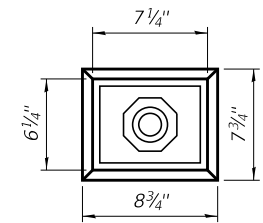
**SECTION AT ABUTMENTS**  
at Rt. L's

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



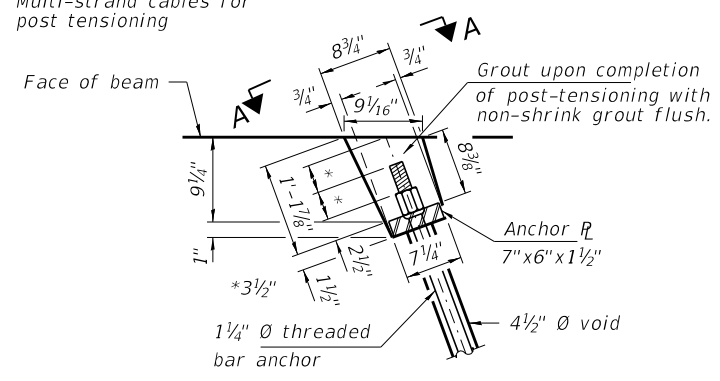
**ANTICIPATED HMA WEARING SURFACE PROFILE**  
(For information only - beam camber may vary in field.)

FILE NAME = 230154-shi-bridge.dgn	USER NAME = smierzwa	DESIGNED - J.R.B.	REVISED -	<b>STATE OF ILLINOIS KANKAKEE COUNTY HIGHWAY DEPARTMENT</b>	<b>SUPERSTRUCTURE DETAILS STRUCTURE NO. 046-3511</b>	F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
<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 = \$SCALE\$	CHECKED - S.W.M.	REVISED -			1327	22-00304-00-BR	KANKAKEE	45	14	
	PLOT DATE = 4/2/2024	DRAWN - G.D.M.	REVISED -			CONTRACT NO. 87835					
		CHECKED - S.W.M.	REVISED -			SHEET NO. 7 OF 16 SHEETS					
						ILLINOIS PROJECT NO. WFB(885)					

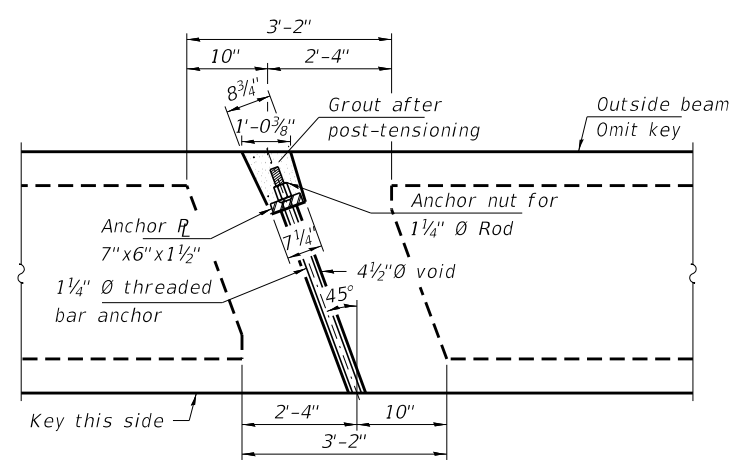


VIEW A-A

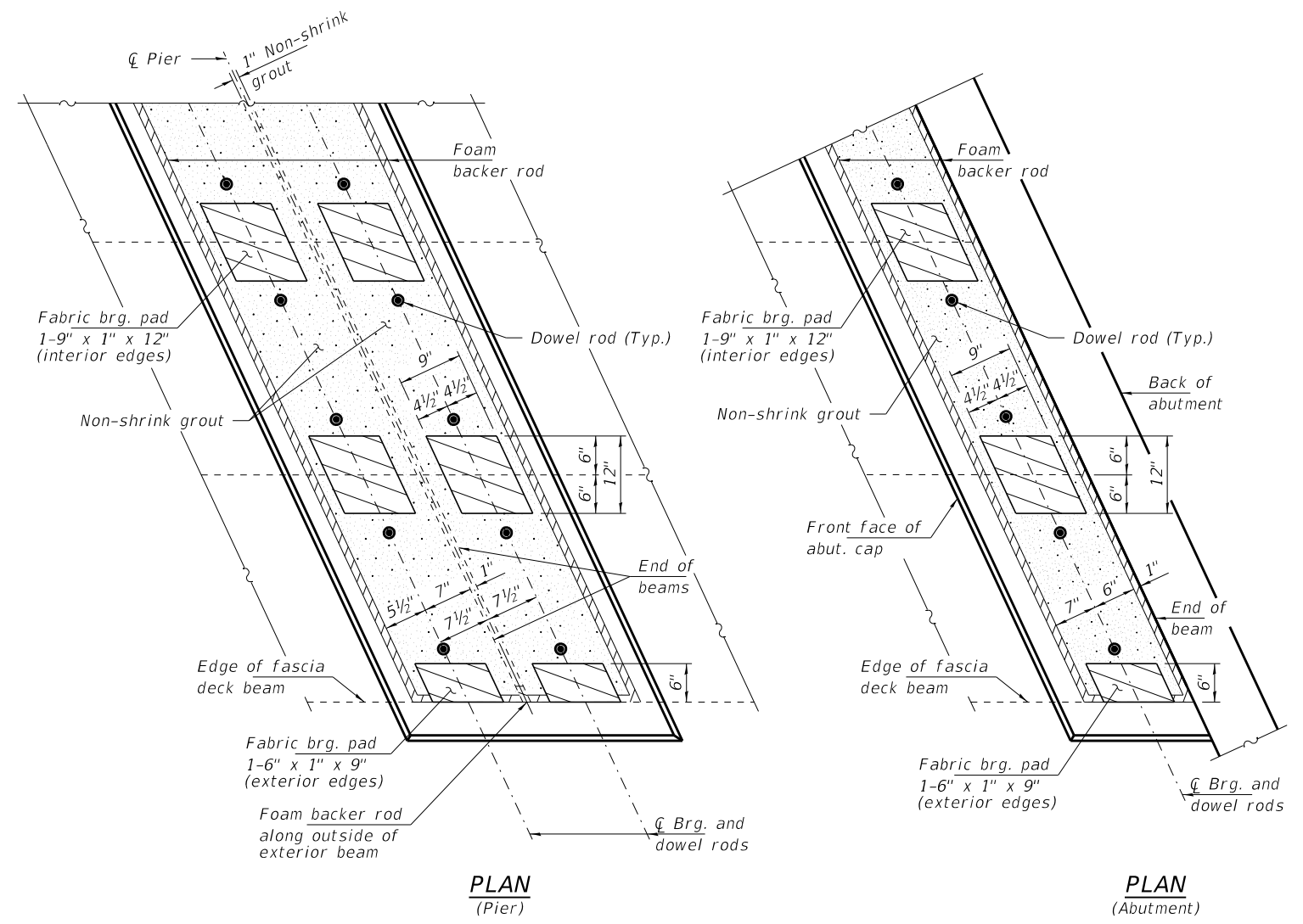
Note: Contractor has option to use Multi-strand cables for post tensioning



PLAN-THREADED BAR ANCHOR OR CABLE ANCHOR ASSEMBLY



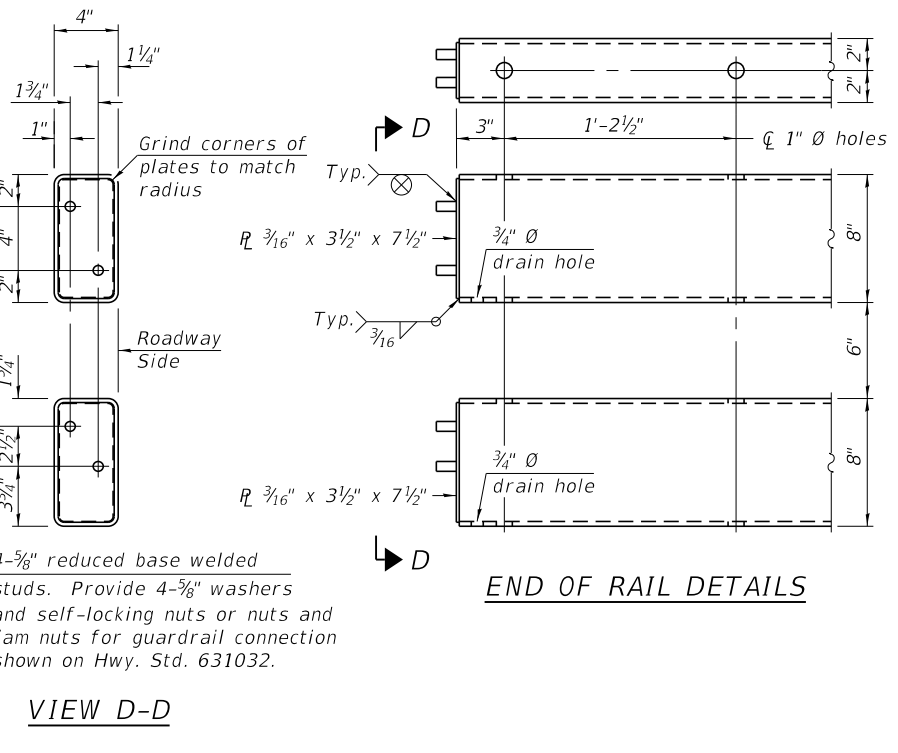
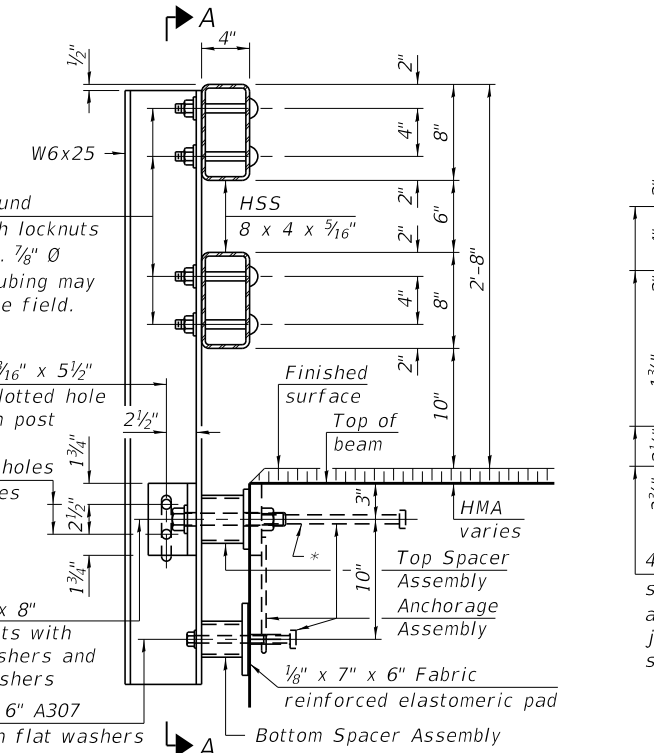
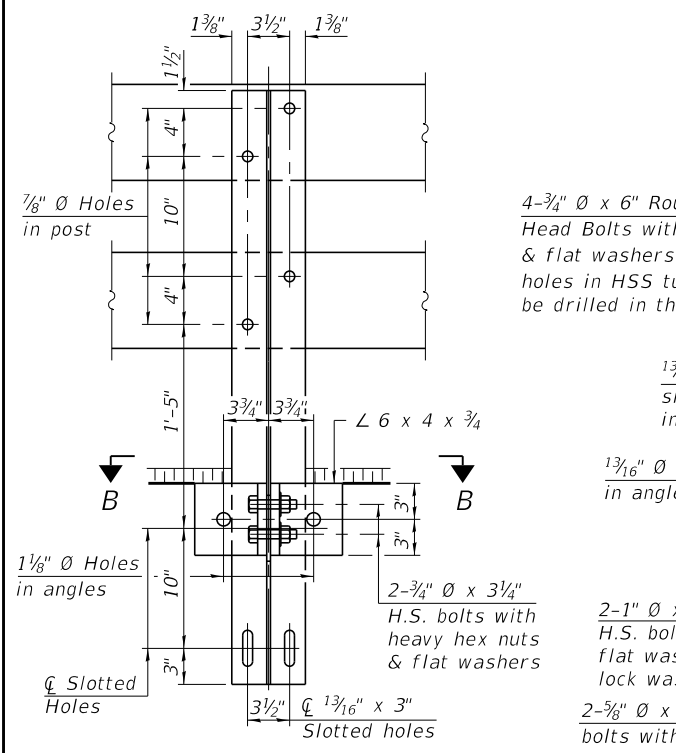
PLAN AT POST-TENSIONED TRANSVERSE TIE / CABLES



PLAN (Pier)

PLAN (Abutment)

Notes:  
The bearing seat surfaces shall be adjusted by shimming the bearing to assure firm and even bearing prior to placement of grout. 2-1/8'' fabric adjusting shims of the dimensions of the exterior bearing pad shown shall be provided for each bearing.



Notes:

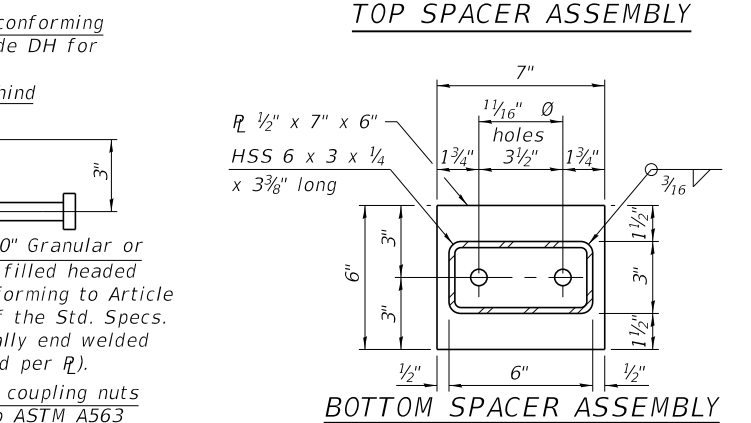
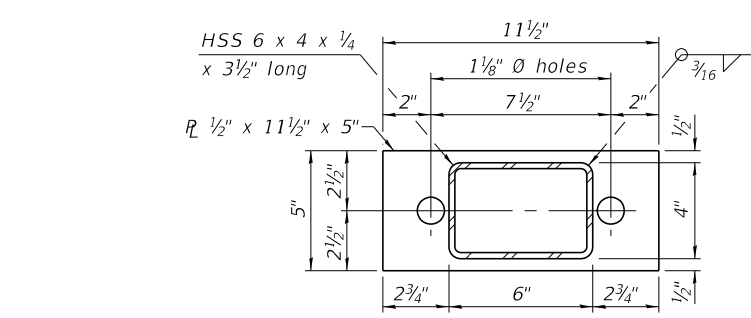
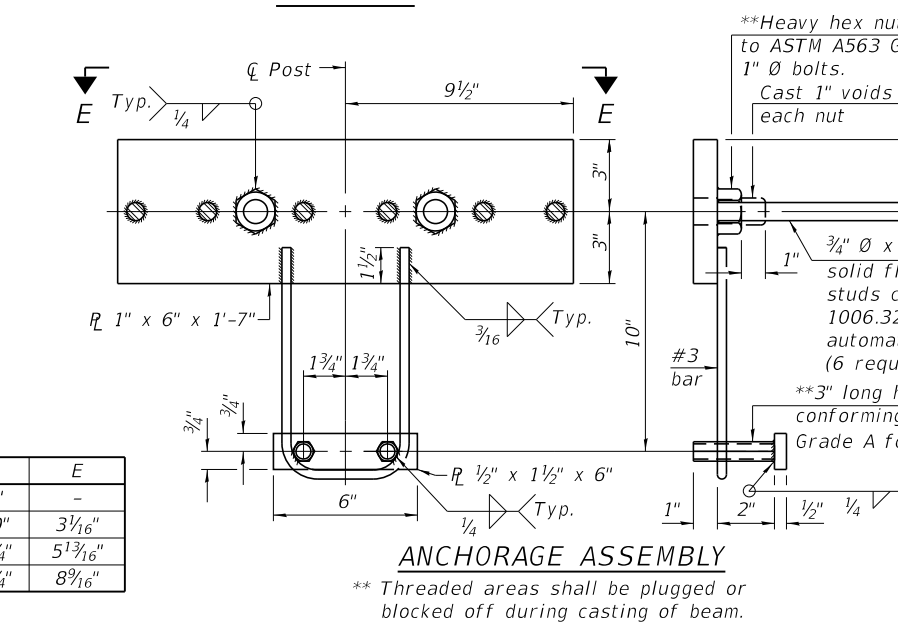
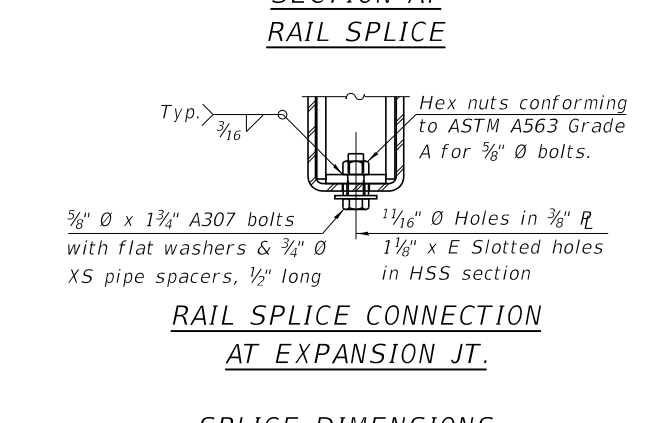
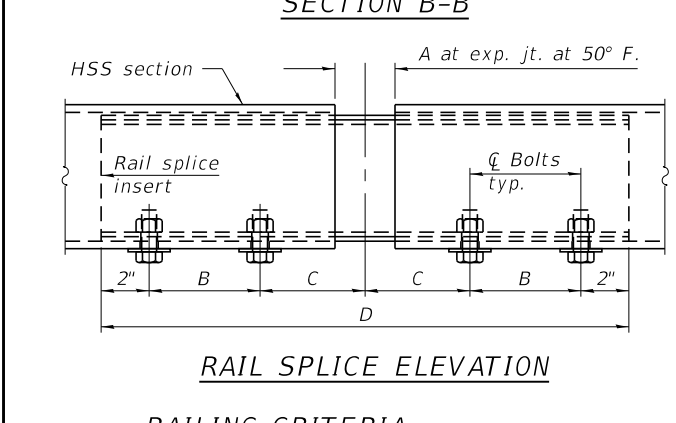
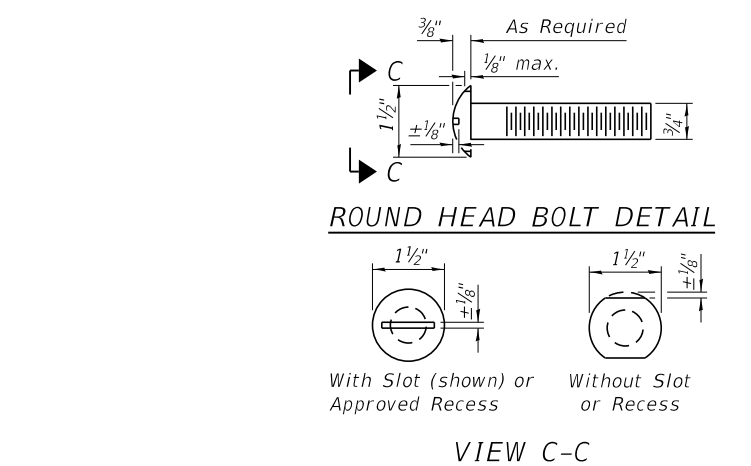
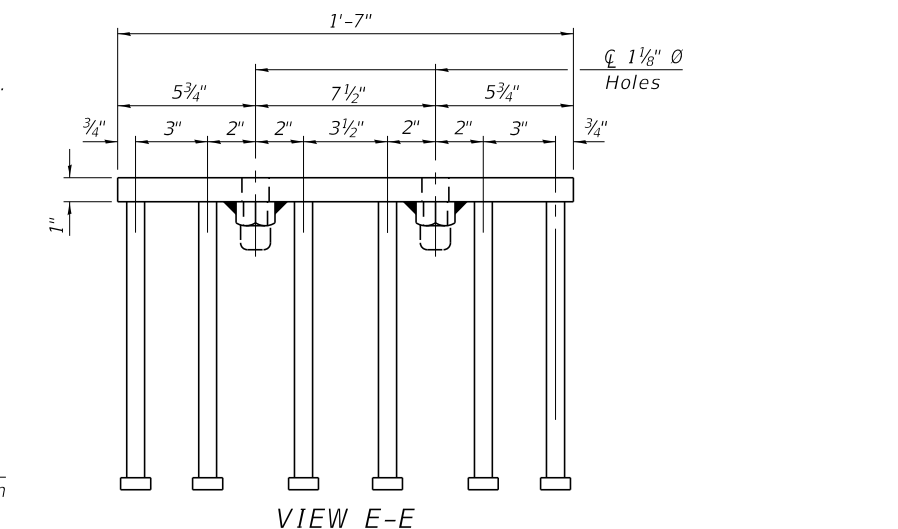
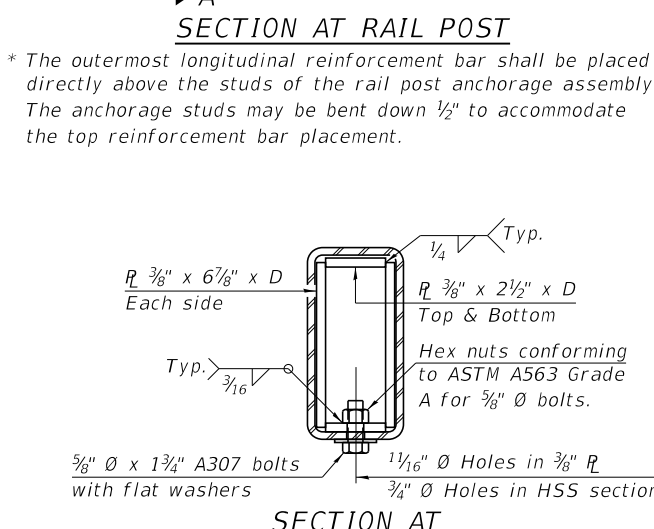
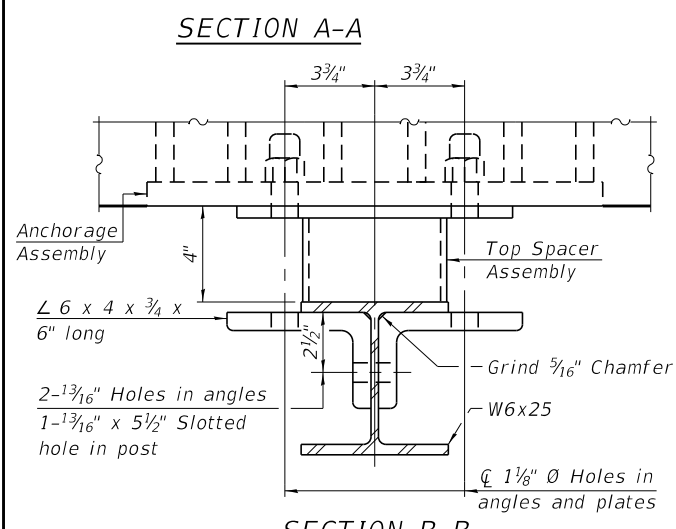
A sufficient number of shims of various thicknesses, sized to fit behind the top spacer assembly, 5" x 11 1/2", and bottom spacer assembly, 6" x 7", shall be provided to adjust posts for proper alignment. If the summation of shims is greater than 1/4" (top) or 1/2" (bottom), longer bolts are required.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

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

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SPLICE DIMENSIONS

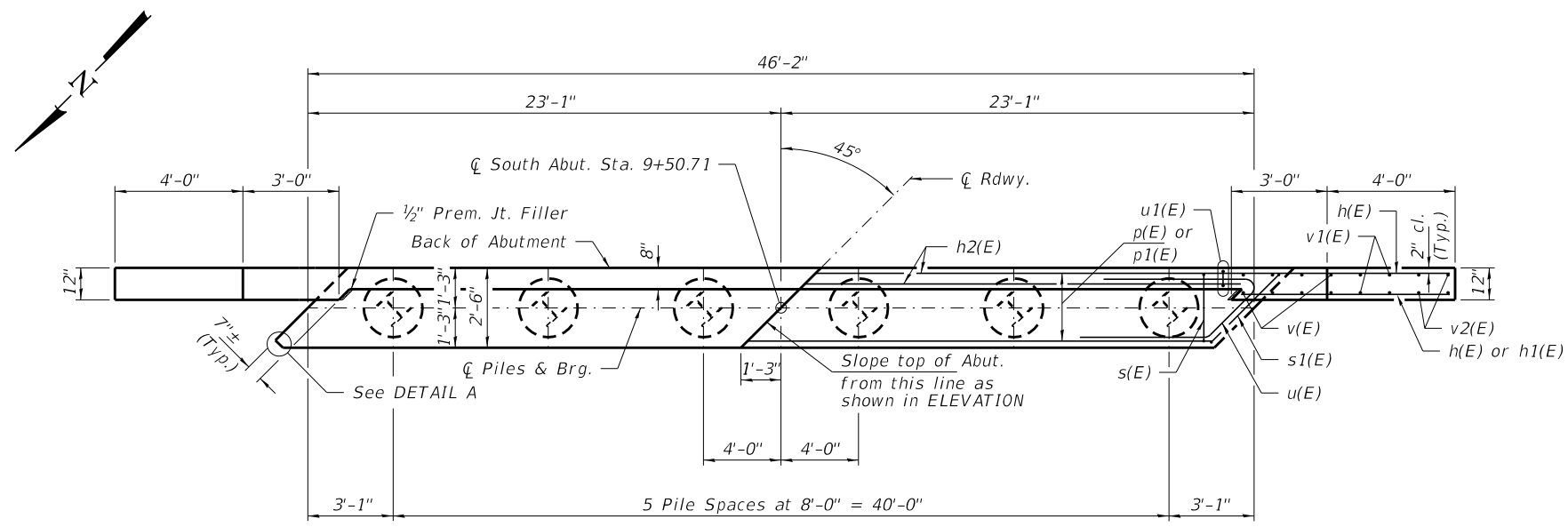
Location	T	A	B	C	D	E
All locs. not over exp. jts.	0	1/4"	4"	4"	1'-8"	-
Over Strip Seal Jt.	≤4"	2 1/2"	4 3/8"	4 3/8"	1'-10"	3 1/2"
Over Finger or Modular Jt.	≤9 1/2"	5 1/2"	7 3/8"	7 1/4"	2'-9 1/4"	5 1 3/16"
Over Finger or Modular Jt.	≤15"	8 1/4"	10 1/8"	10"	3'-8 1/4"	8 3/16"

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

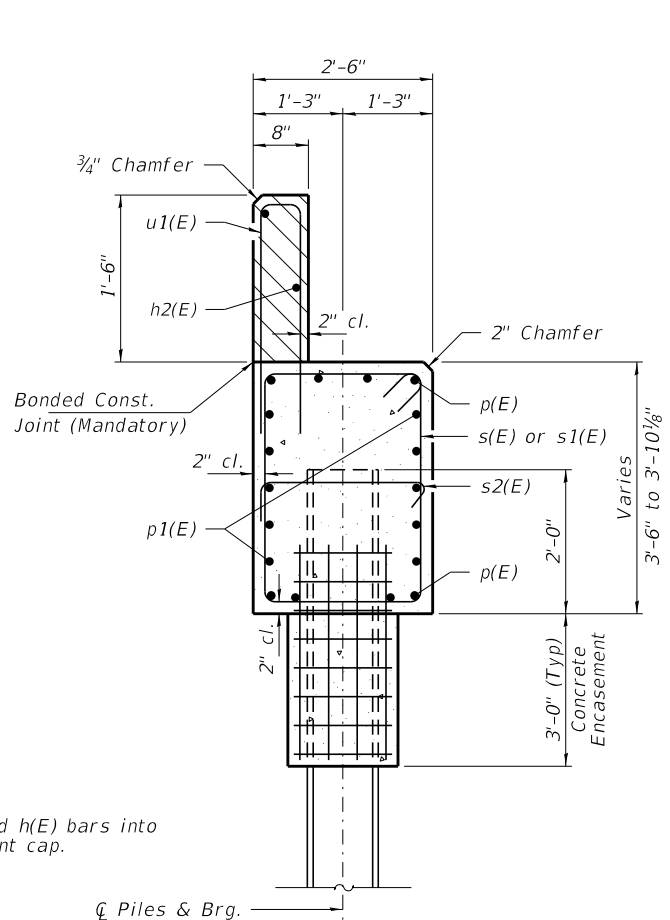
BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SMX	Foot	204





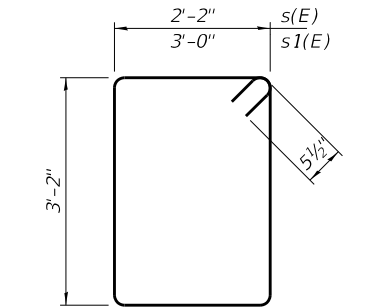
**PLAN**



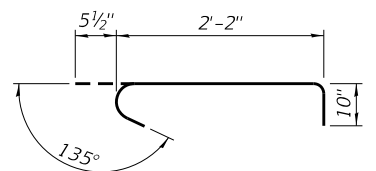
**SECTION A-A**  
(Dimensions are at Rt. L's)

Hatched area to be poured after beams are in place.

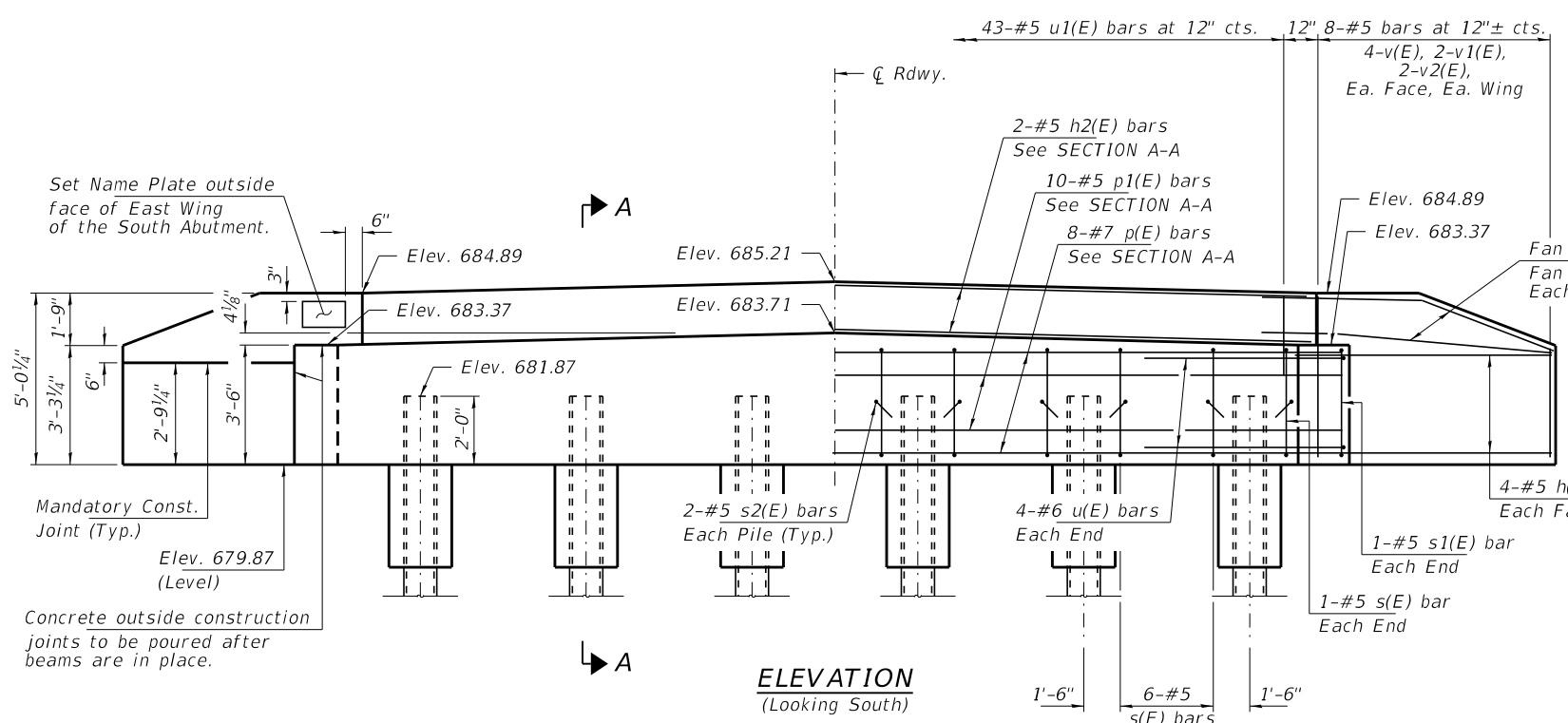
Cast top of wingwall flush with exterior beam face after beams have been erected.



**BAR s(E) & s1(E)**

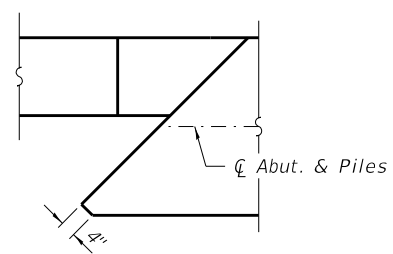


**BAR s2(E)**

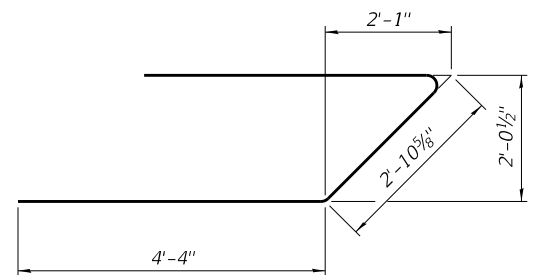


**ELEVATION**  
(Looking South)

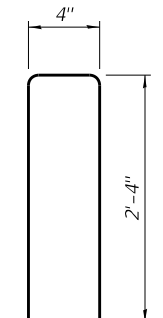
Note: Extend h(E) bars into abutment cap.



**DETAIL A**



**BAR u(E)**



**BAR u1(E)**

**BILL OF MATERIAL - S. ABUT.**

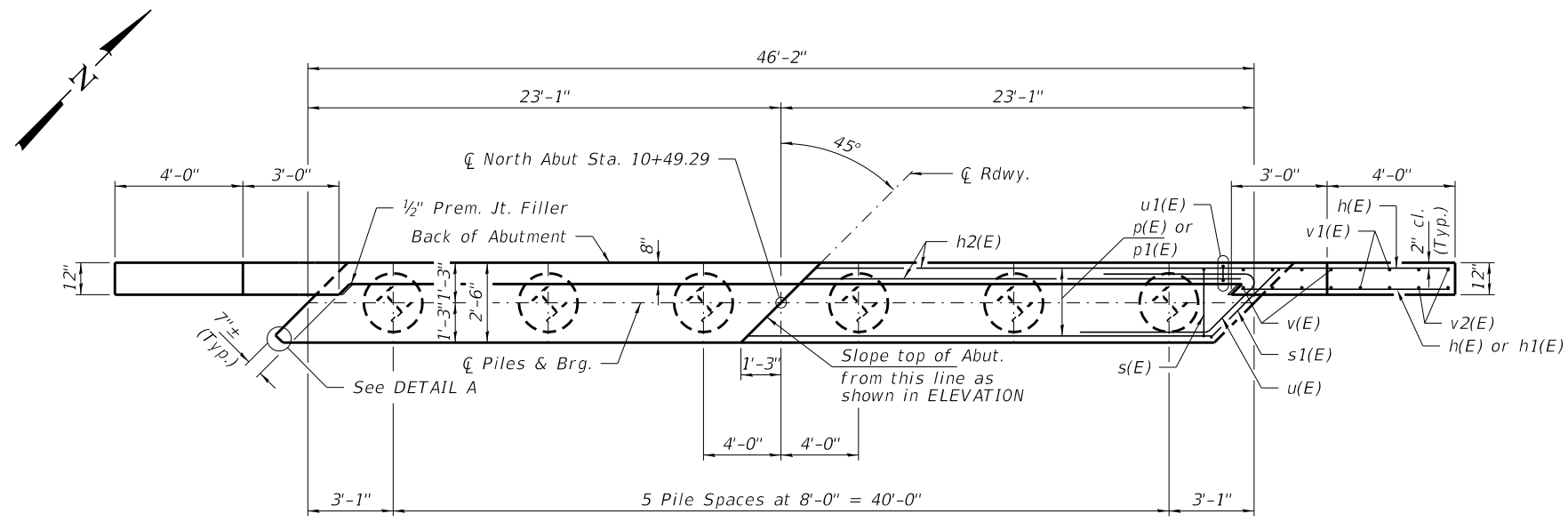
BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	20	#5	8'-3"	—
h1(E)	4	#5	6'-9"	—
h2(E)	2	#5	45'-10"	—
p(E)	8	#7	45'-10"	—
p1(E)	10	#5	45'-10"	—
s(E)	32	#5	11'-7"	□
s1(E)	2	#5	13'-3"	□
s2(E)	12	#5	3'-6"	U
u(E)	8	#6	11'-7"	—
u1(E)	43	#5	5'-0"	—
v(E)	16	#5	4'-9"	—
v1(E)	8	#5	4'-0"	—
v2(E)	8	#5	3'-2"	—
Concrete Structures			Cu. Yd.	20.1
Concrete Encasement			Cu. Yd.	2.0
Protective Coat			Sq. Yd.	10
Reinf. Bars, Epoxy Coated			Pound	2,480
Furnishing Steel Piles HP10x42			Foot	225
Driving Piles			Foot	225
Test Pile Steel HP10x42			Each	1
Name Plates			Each	1

Notes:  
For details of piles see Sheet No. 14 of 16.  
Cast Backwall and tops of wingwalls after beams have been erected.  
All edges shall have standard 3/4" chamfer.  
The cost of Structure Excavation shall be included in the cost of Concrete Structures.  
Protective Coat shall be applied to the top and front face of wingwalls.

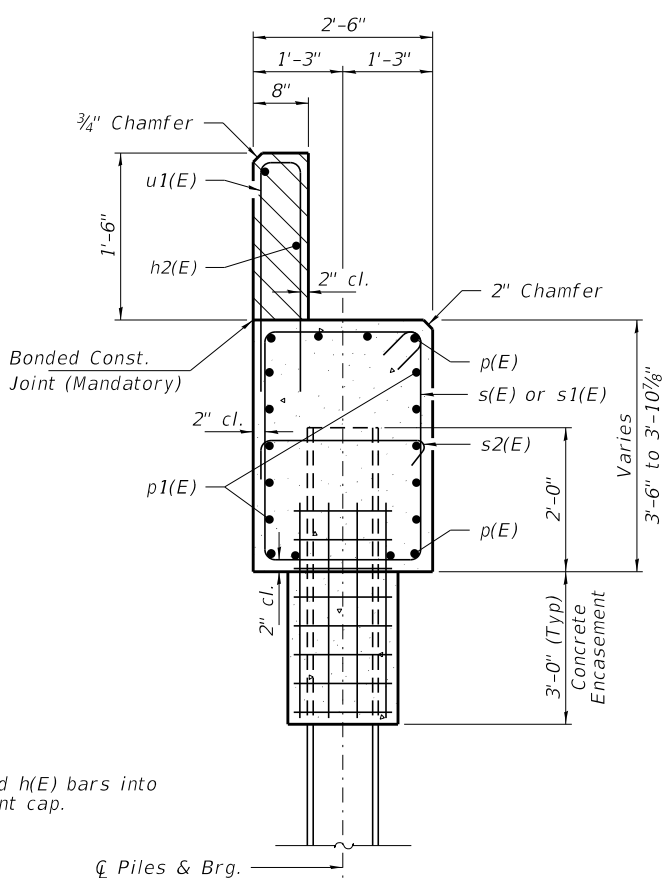
**PILE DATA**

Type: Steel HP10x42  
Nominal Required Bearing: 335 Kips/Pile  
Factored Resistance Available: 184 Kips/Pile  
Est. Length: 45 Ft/Pile  
No. Production Piles: 5  
No. Test Piles: 1

Notes: One test pile shall be driven in a permanent location furthest away from the Boring-2 location at the South Abutment.

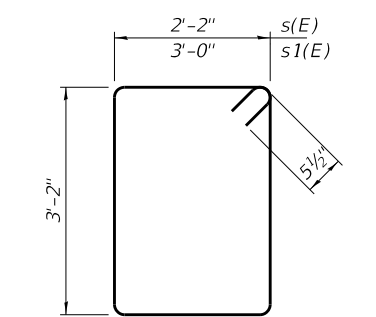


**PLAN**

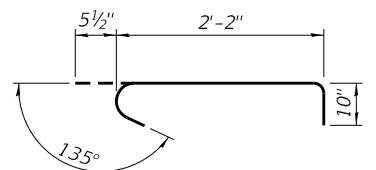


**SECTION A-A**  
(Dimensions are at Rt. L's)

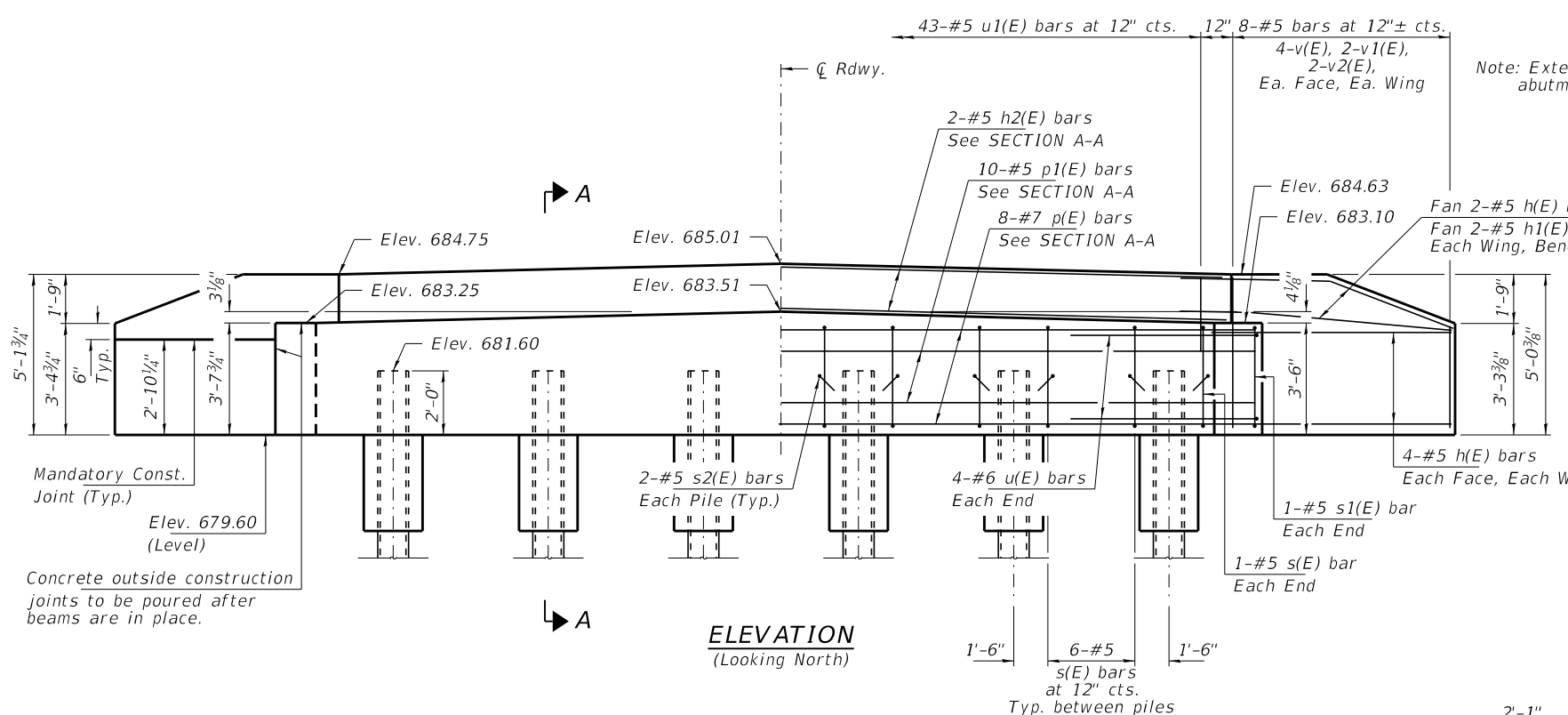
Hatched area to be poured after beams are in place.  
Cast top of wingwall flush with exterior beam face after beams have been erected.



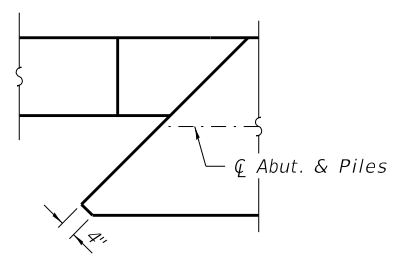
**BAR s(E) & s1(E)**



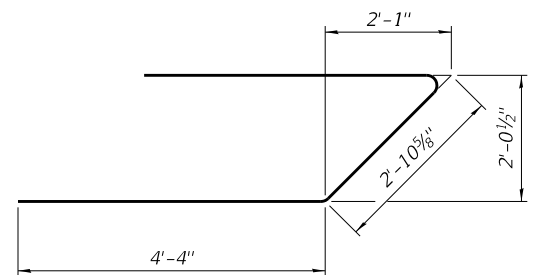
**BAR s2(E)**



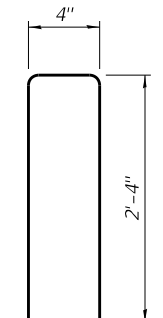
**ELEVATION**  
(Looking North)



**DETAIL A**



**BAR u(E)**



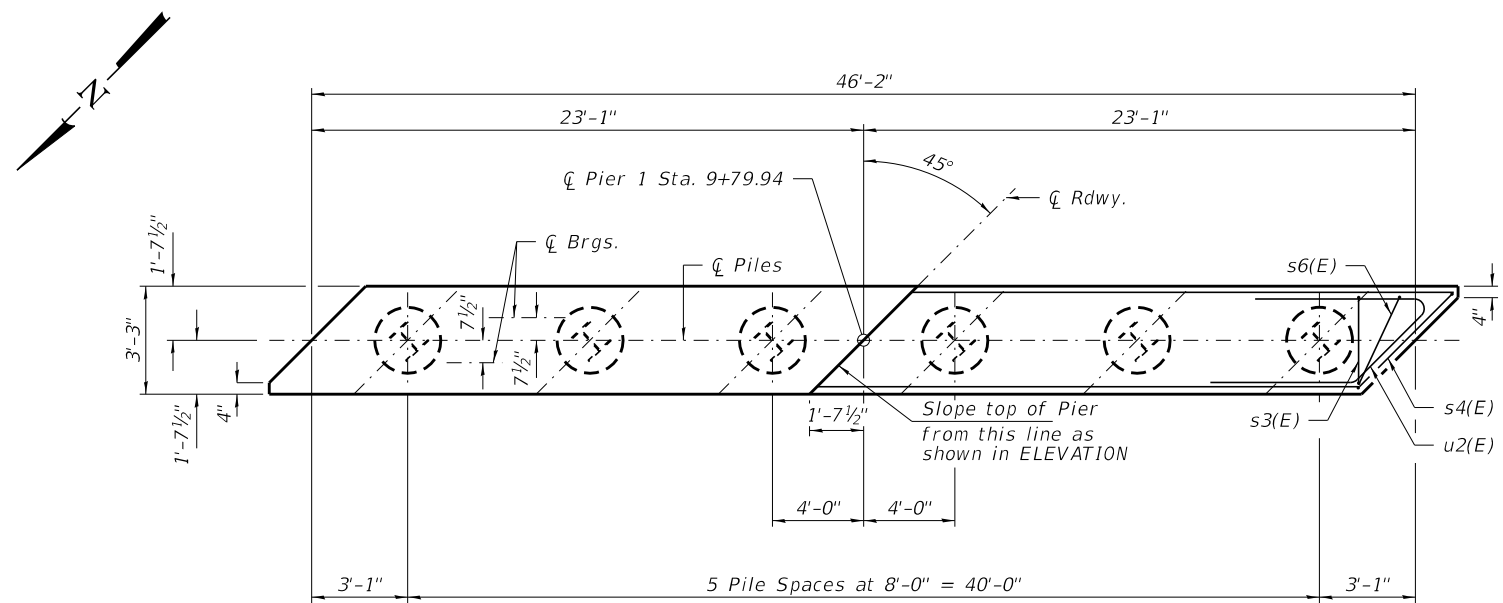
**BAR u1(E)**

**BILL OF MATERIAL - N. ABUT.**

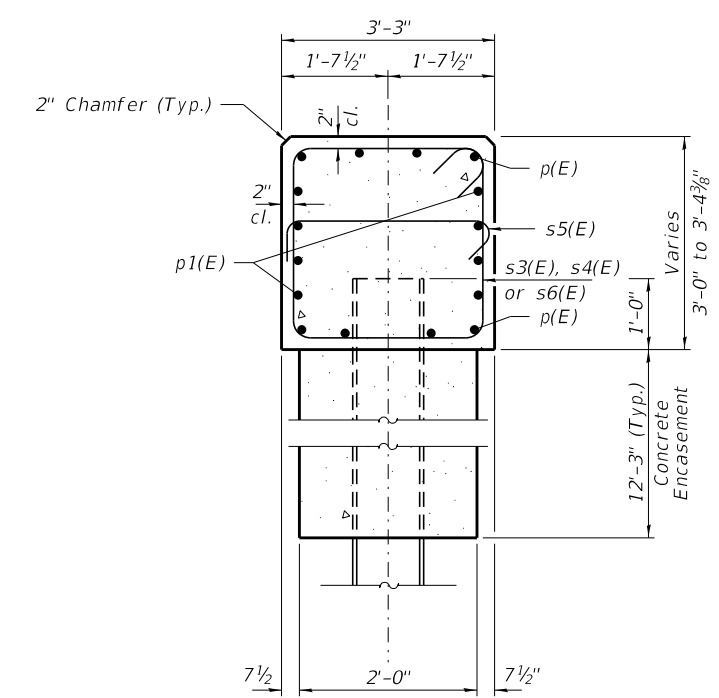
BAR	NO.	SIZE	LENGTH	SHAPE
h(E)	20	#5	8'-3"	—
h1(E)	4	#5	6'-9"	—
h2(E)	2	#5	45'-10"	—
p(E)	8	#7	45'-10"	—
p1(E)	10	#5	45'-10"	—
s(E)	32	#5	11'-7"	□
s1(E)	2	#5	13'-3"	□
s2(E)	12	#5	3'-6"	┌
u(E)	8	#6	11'-7"	┌
u1(E)	43	#5	5'-0"	┌
v(E)	16	#5	4'-9"	—
v1(E)	8	#5	4'-0"	—
v2(E)	8	#5	3'-2"	—
Concrete Structures			Cu. Yd.	20.1
Concrete Encasement			Cu. Yd.	2.0
Protective Coat			Sq. Yd.	10
Reinf. Bars, Epoxy Coated			Pound	2,480
Furnishing Steel Piles HP10x42			Foot	270
Driving Piles			Foot	270

Notes:  
For details of piles see Sheet No. 14 of 16.  
Cast Backwall and tops of wingwalls after beams have been erected.  
All edges shall have standard 3/4 inch chamfer.  
The cost of Structure Excavation shall be included in the cost of Concrete Structures.  
Protective Coat shall be applied to the top and front face of wingwalls.

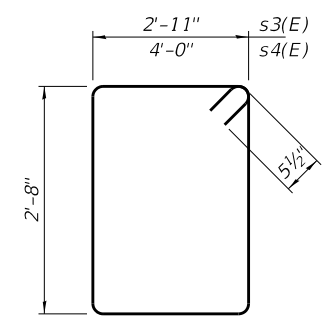
**PILE DATA**  
Type: Steel HP10x42  
Nominal Required Bearing: 335 Kips/Pile  
Factored Resistance Available: 184 Kips/Pile  
Est. Length: 45 Ft/Pile  
No. Production Piles: 6



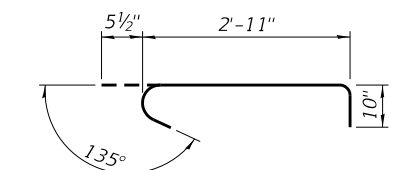
**PLAN**



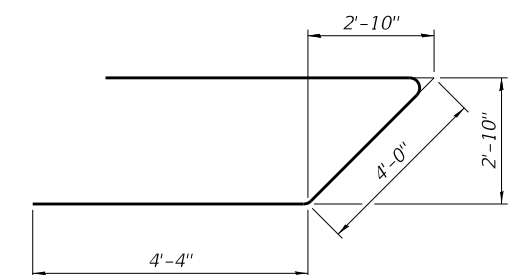
**SECTION A-A**  
(at Rt. L's)



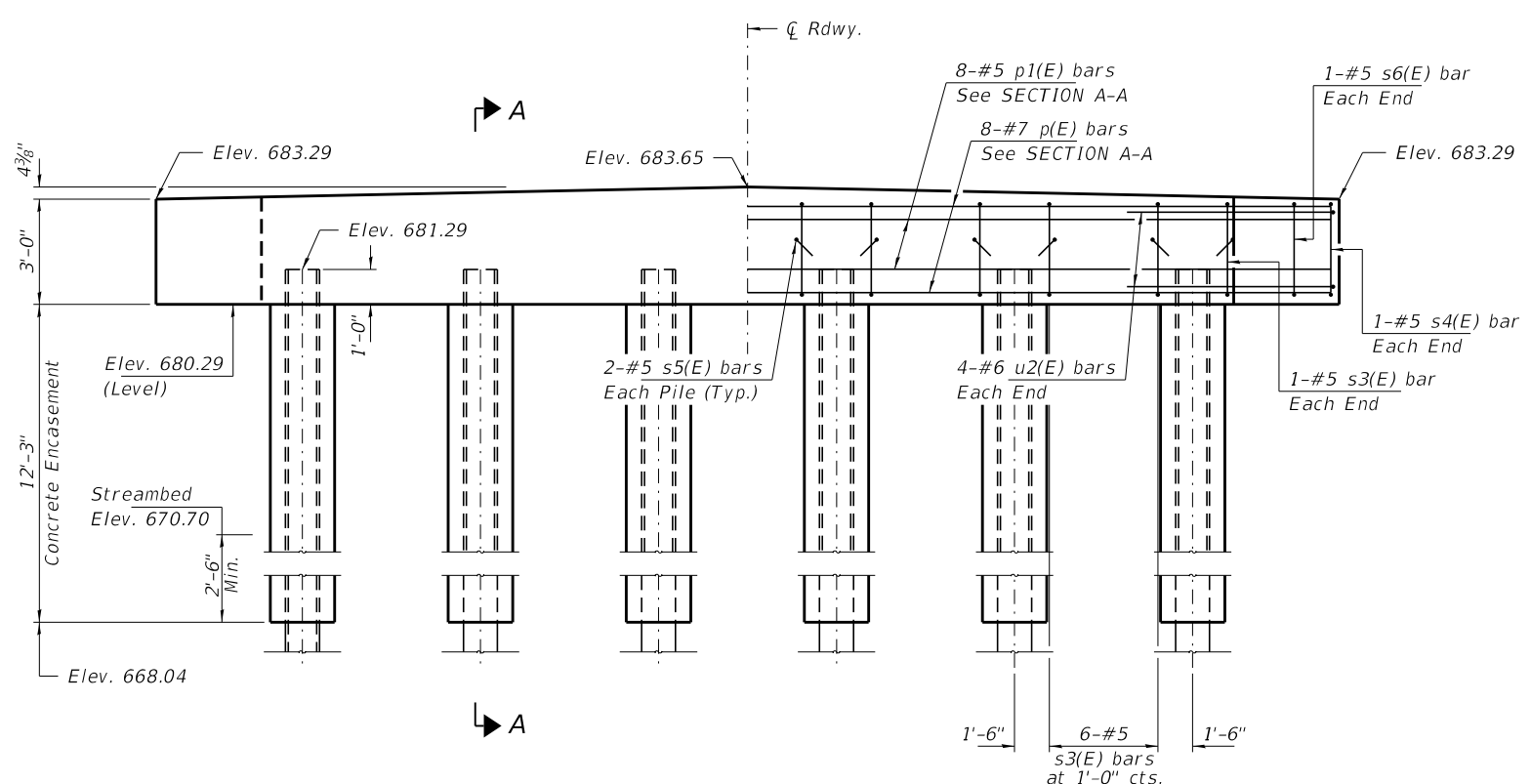
**BAR s3(E) & s4(E)**



**BAR s5(E)**



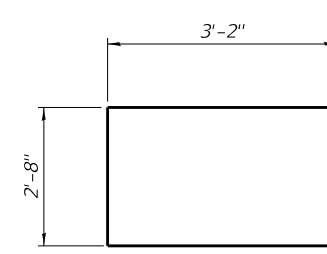
**BAR u2(E)**



**ELEVATION**  
(Looking South)

**PILE DATA**

Type: Steel HP10x42  
 Nominal Required Bearing: 335 Kips/Pile  
 Factored Resistance Available: 184 Kips/Pile  
 Est. Length: 45 Ft/Pile  
 No. Production Piles: 6

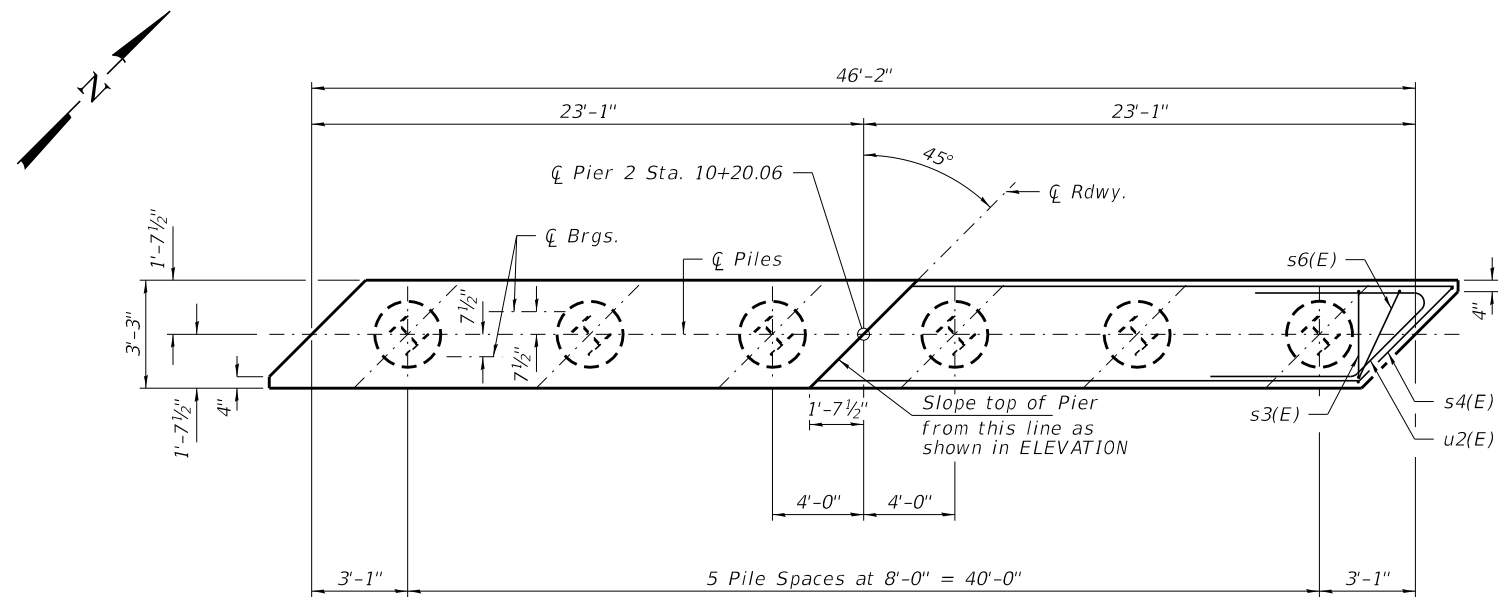


**BAR s6(E)**

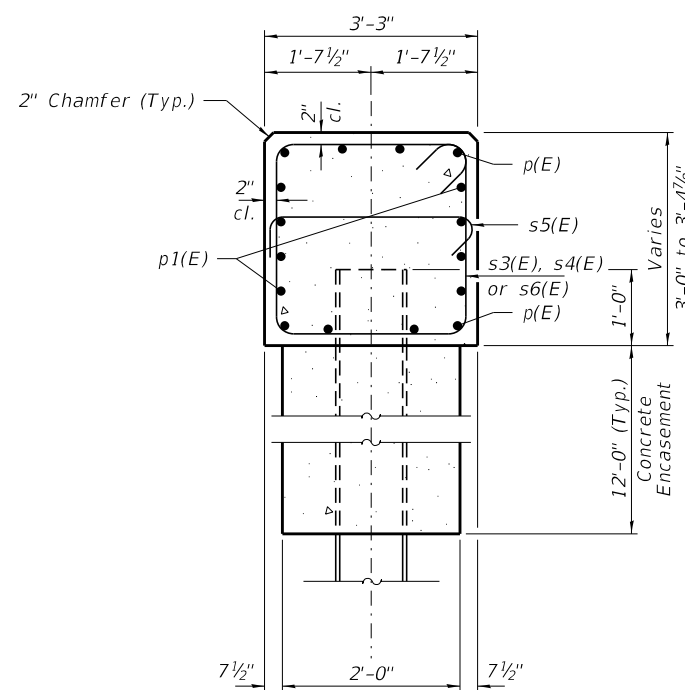
**BILL OF MATERIAL - PIER 1**

BAR	NO.	SIZE	LENGTH	SHAPE
p(E)	8	#7	45'-10"	—
p1(E)	8	#5	45'-10"	—
s3(E)	32	#5	12'-1"	□
s4(E)	2	#5	14'-3"	□
s5(E)	12	#5	4'-3"	U
s6(E)	2	#5	9'-0"	U
u2(E)	8	#6	12'-8"	U
Cofferdam (Type 1) (Location-1)	Each			1
Concrete Structures			Cu. Yd.	17.7
Concrete Encasement			Cu. Yd.	8.6
Reinf. Bars, Epoxy Coated			Pound	1,790
Furnishing Steel Piles HP10x42			Foot	270
Driving Piles			Foot	270

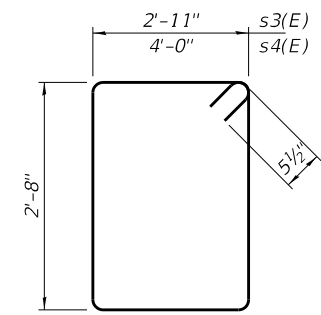
Notes:  
 For details of piles see sheet No. 14 of 16 for details of concrete encasement reinforcement, see sheet No. 14 of 16.  
 If a portion of the pier encasement is underwater, concrete shall be tremied under water into forms according to Article 503.08 of the Standard Specifications. Concrete shall be tremied to an Elevation 1'-0" above the water level at the time of construction.  
 Cofferdam Excavation shall be included in the cost of Concrete Encasement.  
 All edges shall have standard 3/4" chamfer.



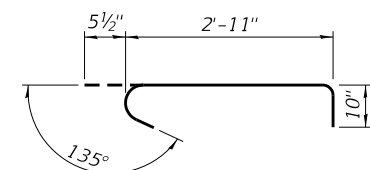
**PLAN**



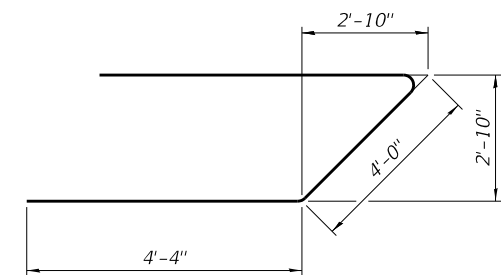
**SECTION A-A**  
(at Rt. L's)



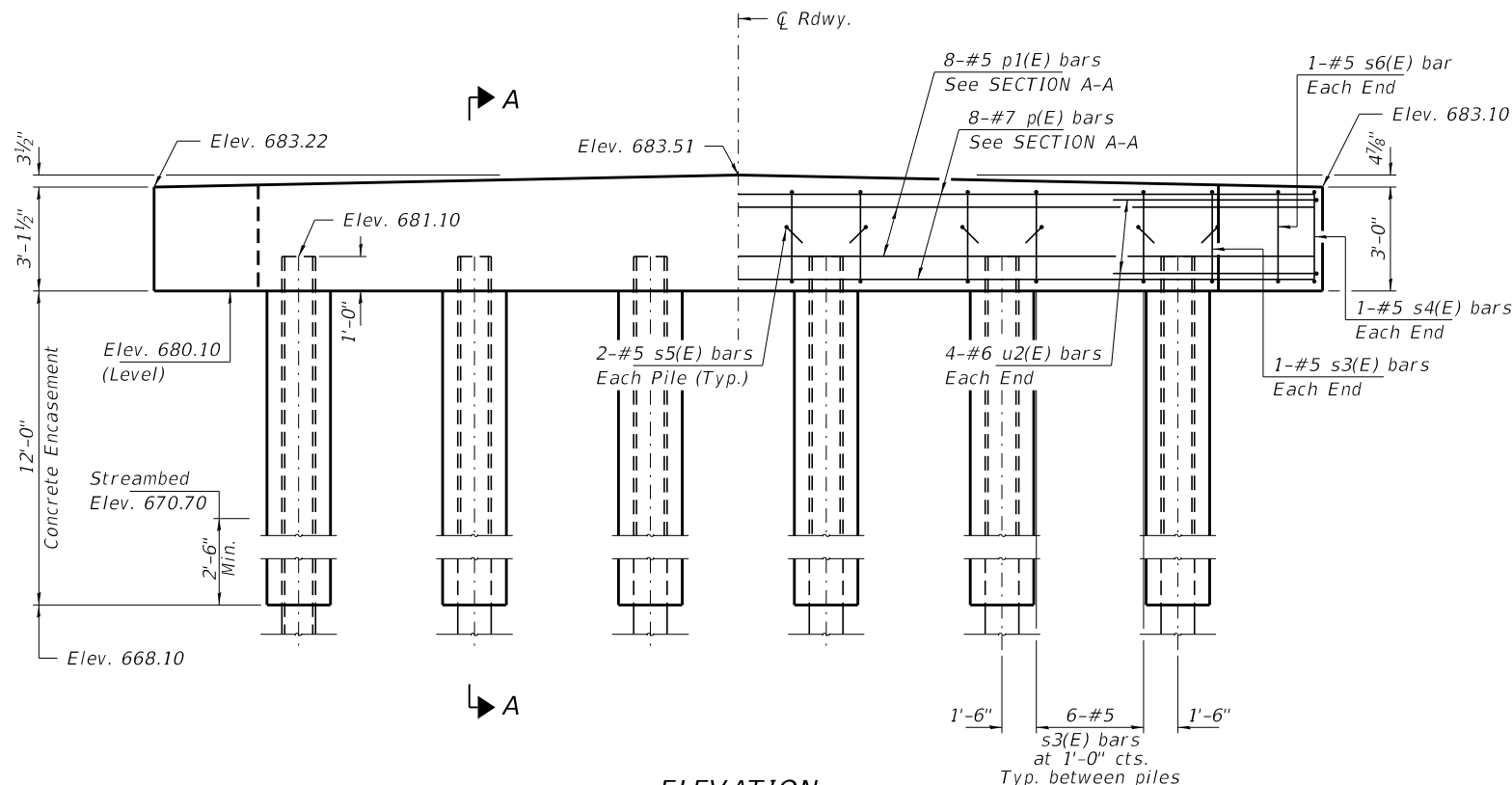
**BAR s3(E) & s4(E)**



**BAR s5(E)**



**BAR u2(E)**

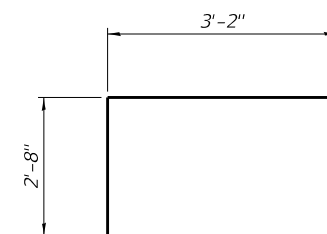


**ELEVATION**  
(Looking North)

**PILE DATA**

Type: Steel HP10x42  
 Nominal Required Bearing: 335 Kips/Pile  
 Factored Resistance Available: 184 Kips/Pile  
 Est. Length: 45 Ft./Pile  
 No. Production Piles: 5  
 No. Test Piles: 1

Notes: One test pile shall be driven in a permanent location furthest away from the Boring-1 location at Pier 2.

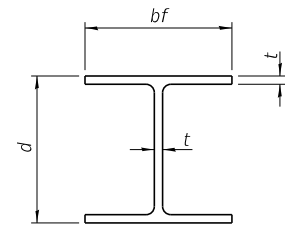


**BAR s6(E)**

**BILL OF MATERIAL - PIER 2**

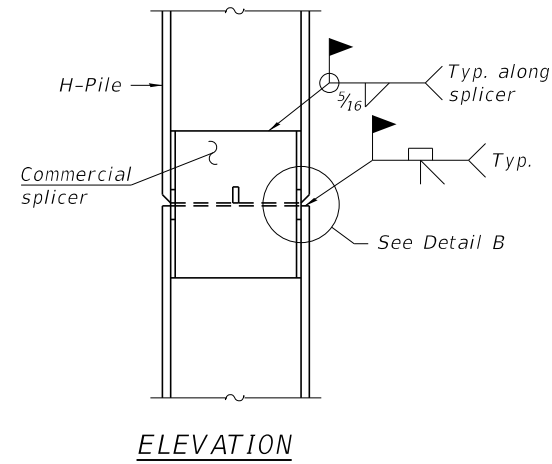
BAR	NO.	SIZE	LENGTH	SHAPE
p(E)	8	#7	45'-10"	—
p1(E)	8	#5	45'-10"	—
s3(E)	32	#5	12'-1"	□
s4(E)	2	#5	14'-3"	□
s5(E)	12	#5	4'-3"	U
s6(E)	2	#5	9'-0"	U
u2(E)	8	#6	12'-8"	∟
Cofferdam (Type 1) (Location-2)			Each	1
Concrete Structures			Cu. Yd.	18.1
Concrete Encasement			Cu. Yd.	8.4
Reinf. Bars, Epoxy Coated			Pound	1,790
Furnishing Steel Piles HP10x42			Foot	225
Driving Piles			Foot	225
Test Pile Steel HP10x42			Each	1

Notes:  
 For details of piles see sheet No. 14 of 16 for details of concrete encasement reinforcement, see sheet No. 14 of 16.  
 If a portion of the pier encasement is underwater, concrete shall be tremied under water into forms according to Article 503.08 of the Standard Specifications. Concrete shall be tremied to an Elevation 1'-0" above the water level at the time of construction.  
 Cofferdam Excavation shall be included in the cost of Concrete Encasement.  
 All edges shall have standard 3/4" chamfer.

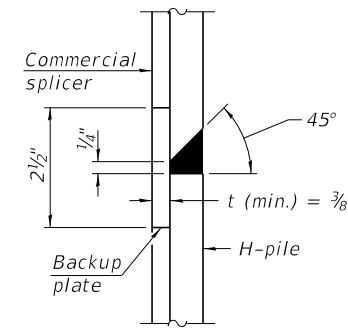


**STEEL PILE TABLE**

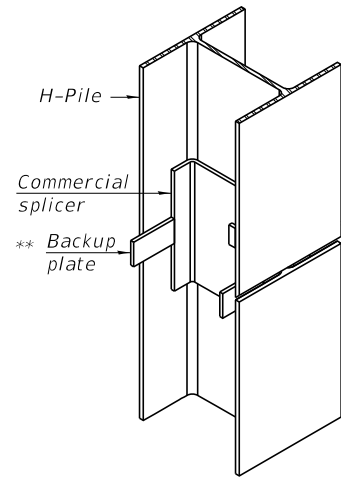
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 7/8"	14 3/4"	5/8"	30"
x73	13 3/8"	14 3/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"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

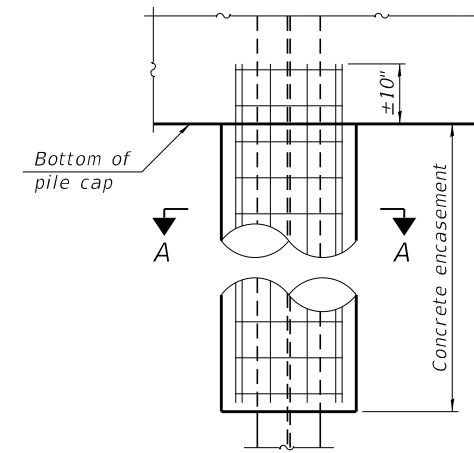


**DETAIL "B"**

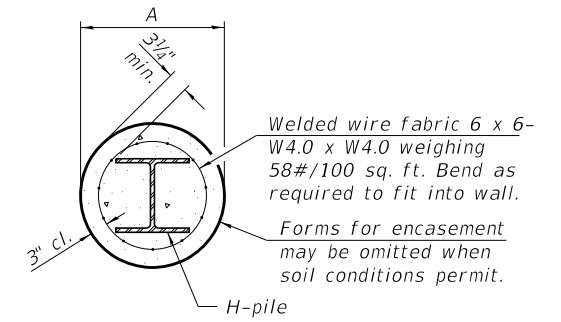


**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE**

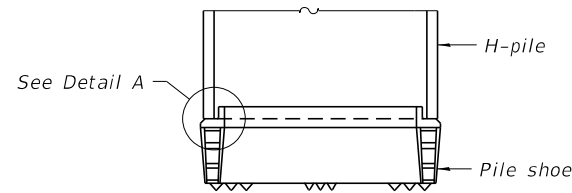


**ELEVATION**

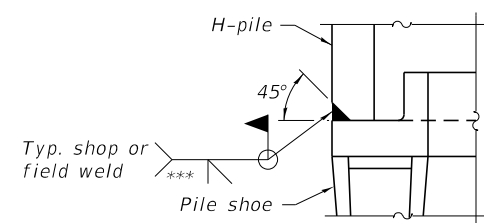


**SECTION A-A**

**INDIVIDUAL PILE CONCRETE ENCASUREMENT (when specified)**

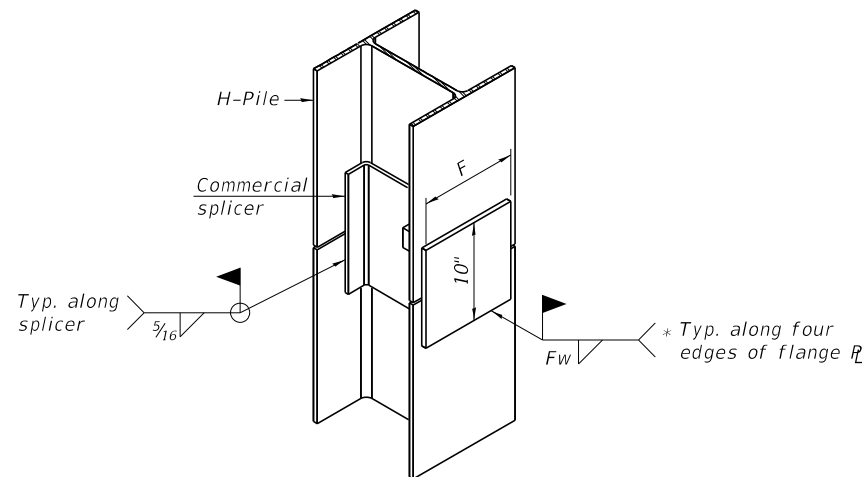


**ELEVATION**



**DETAIL A**

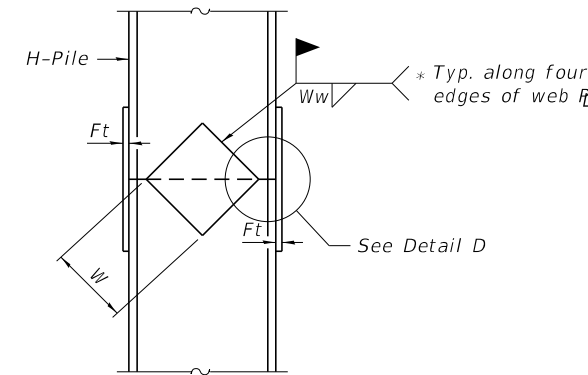
**SHOE ATTACHMENT**



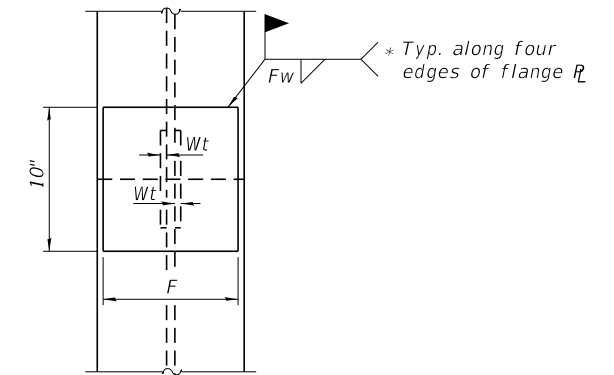
**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE ALTERNATE**

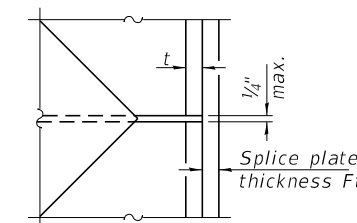
- \* Interrupt welds 1/4" from end of web and/or each flange.
- \*\* Remove portions of backup plates that extend outside the flanges.
- \*\*\* Weld size per pile shoe manufacturer (5/16" min.).



**ELEVATION**



**END VIEW**



**DETAIL D**

**WELDED PLATE FIELD SPLICE**

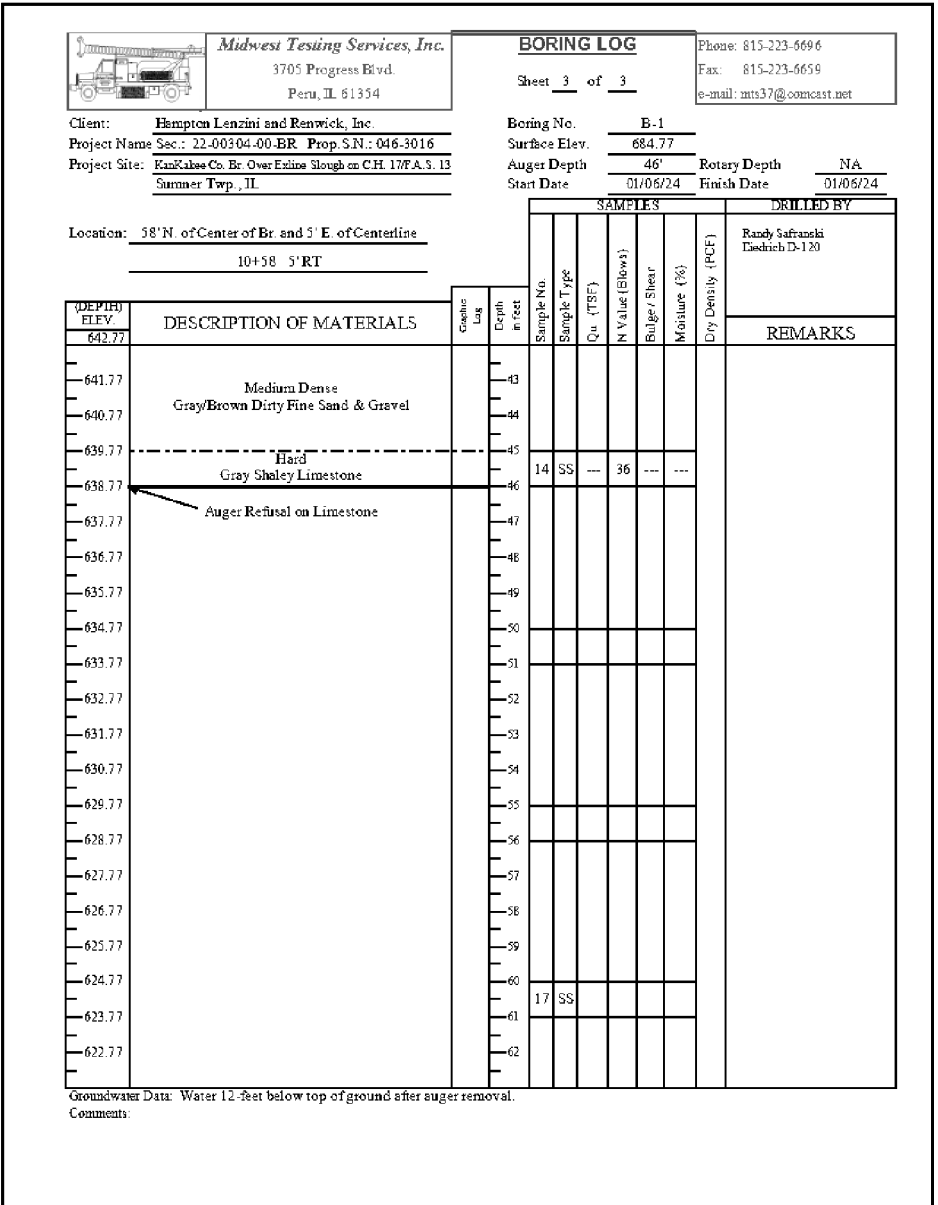
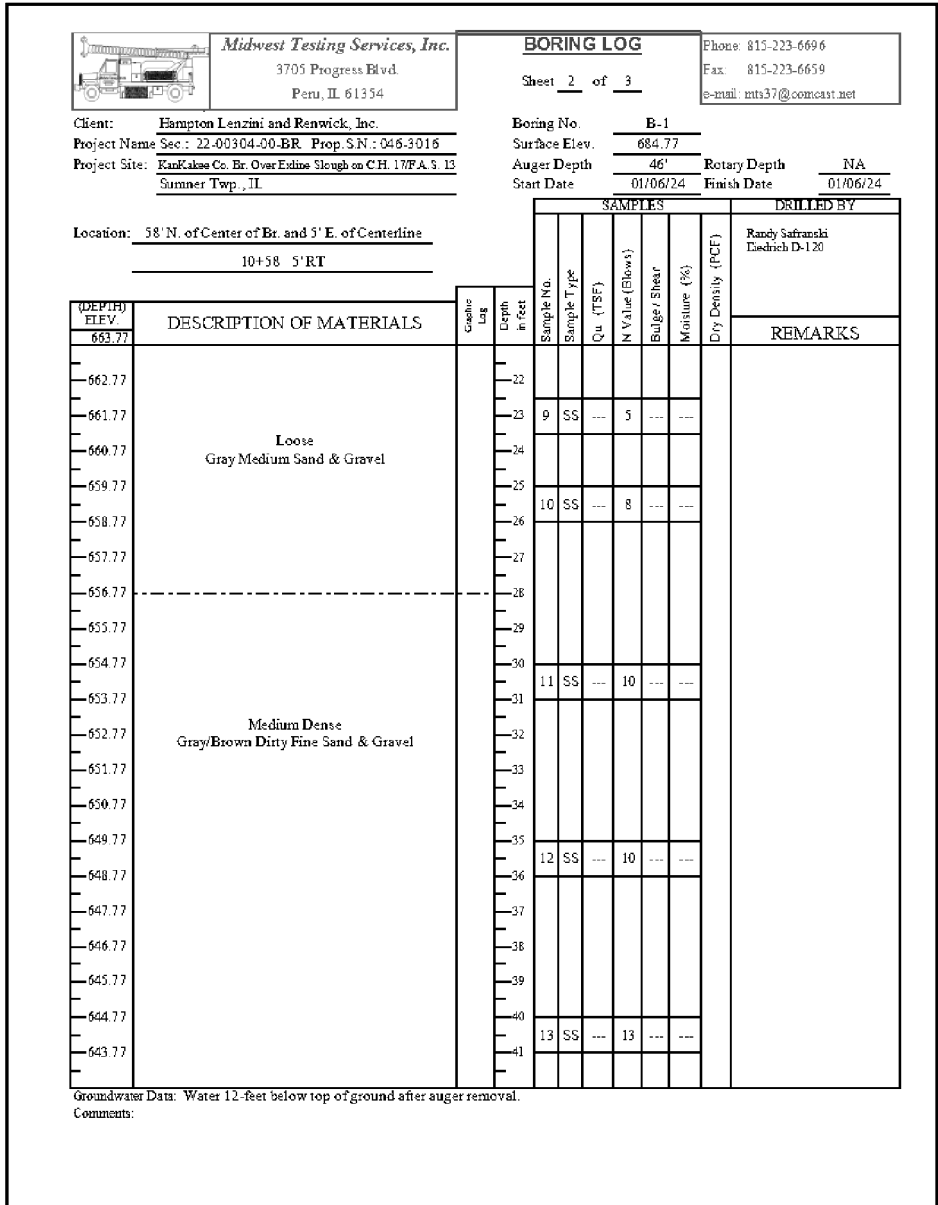
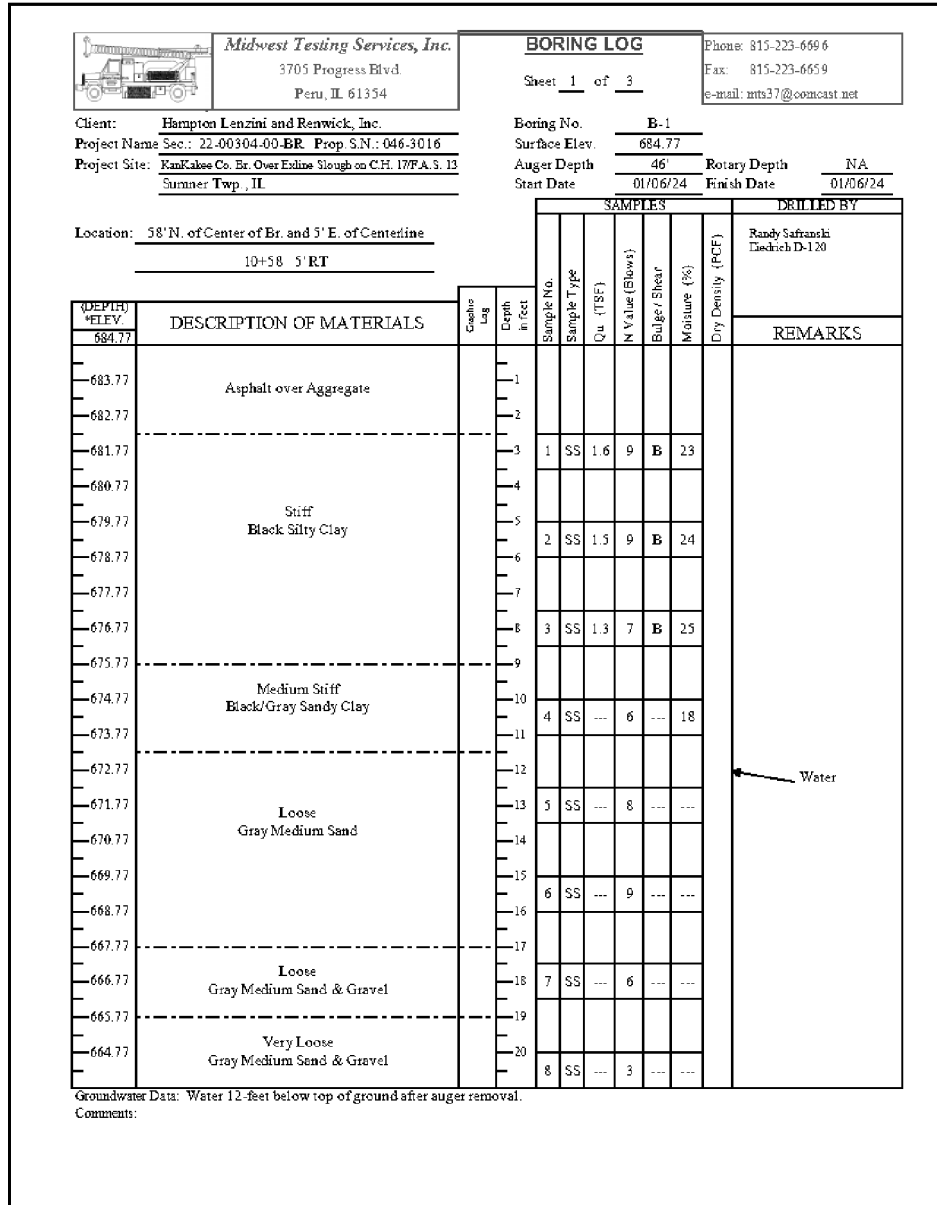
Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"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

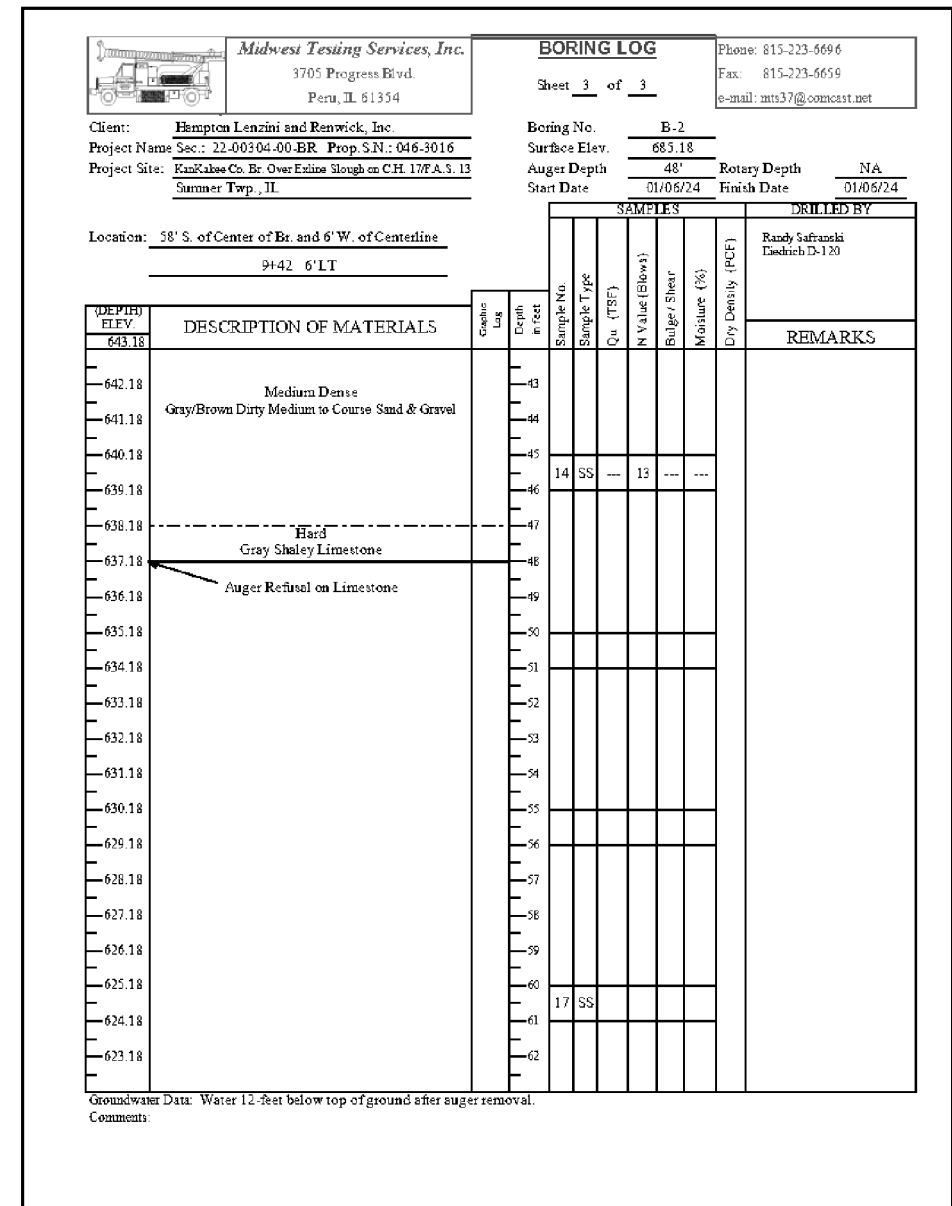
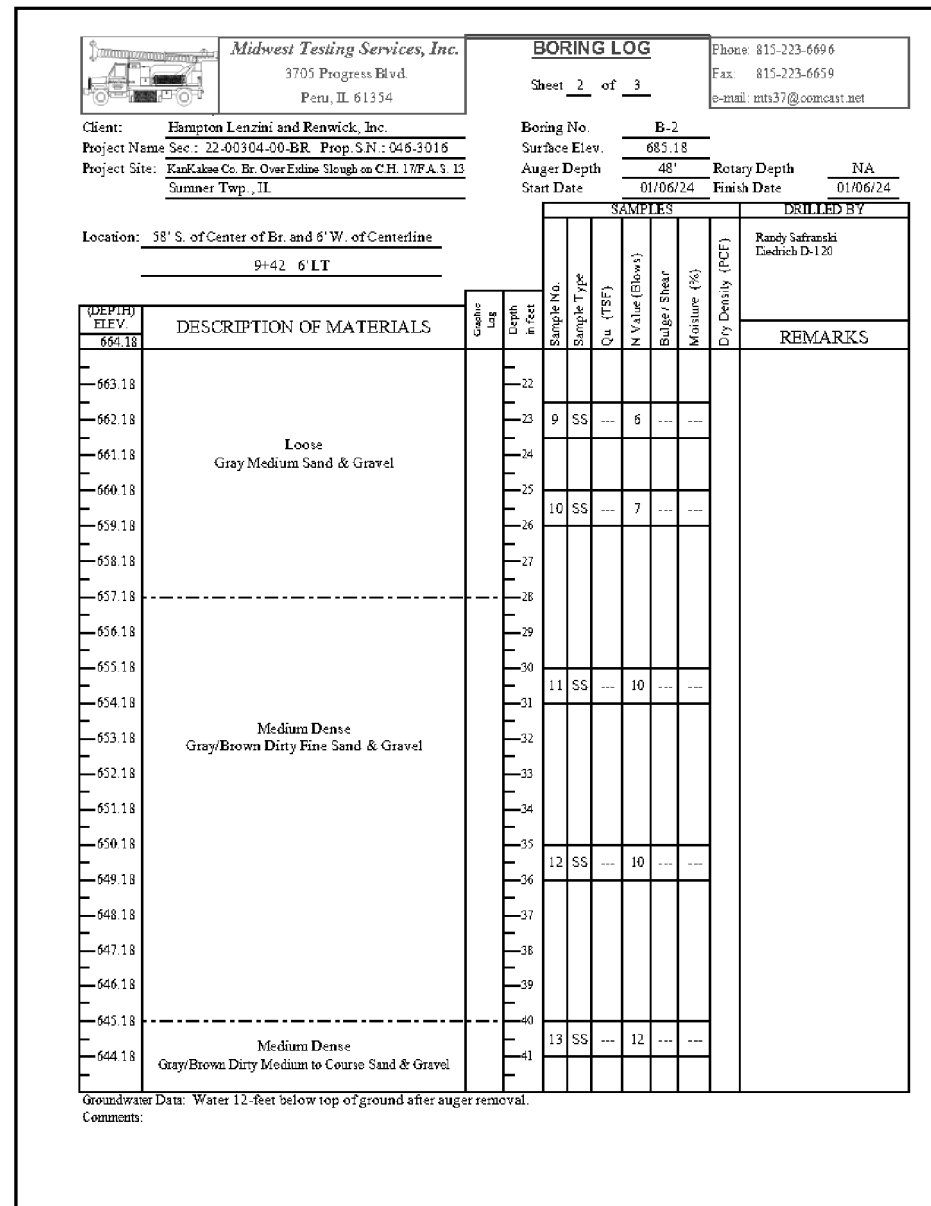
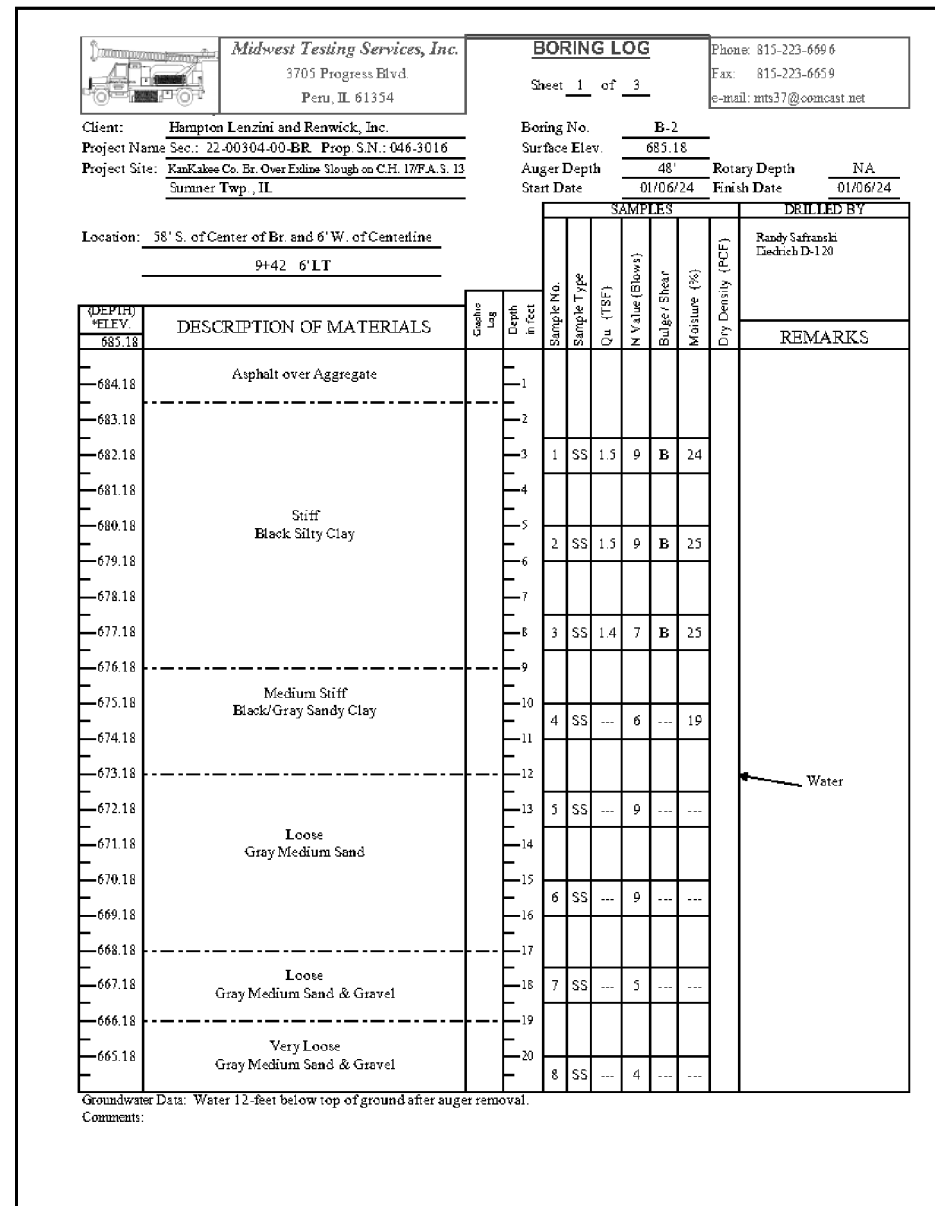
F-HP 10-27-2023

FILE NAME = 230154-shi-bridge.dgn	USER NAME = smierzwa	DESIGNED - J.R.B.	REVISED -	<b>STATE OF ILLINOIS KANKAKEE COUNTY HIGHWAY DEPARTMENT</b>	<b>HP PILE DETAILS STRUCTURE NO. 046-3511</b>	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 -			1327	22-00304-00-BR	KANKAKEE	45	21	
	PLOT DATE = 4/2/2024	DRAWN - G.D.M.	REVISED -			CONTRACT NO. 87835					
		CHECKED - S.W.M.	REVISED -			SHEET NO. 14 OF 16 SHEETS					

ILLINOIS PROJECT NO. WFB(885)



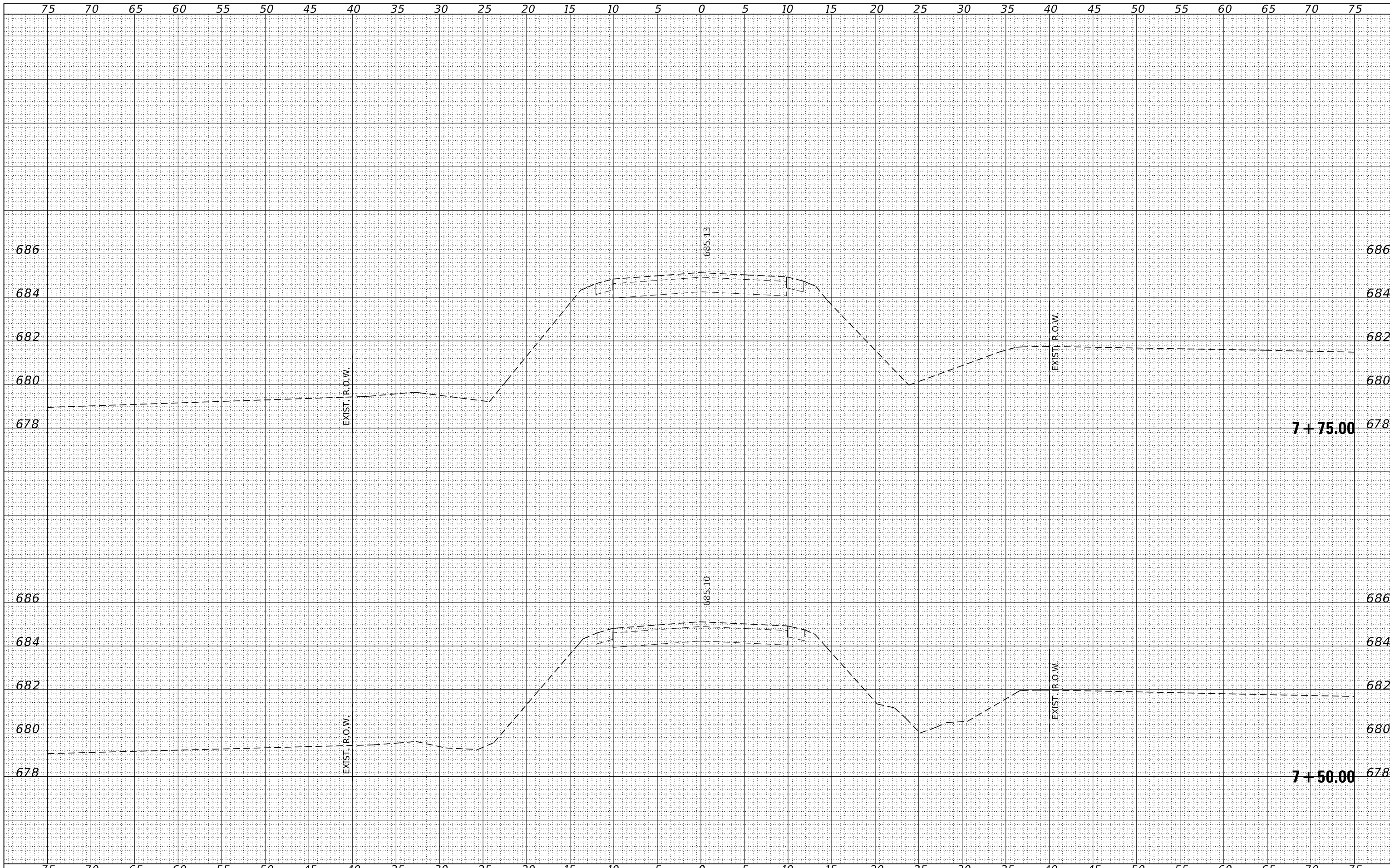
BORING B-1



**BORING B-2**

BY	DATE

ORIGINAL SURVEY	SURVEYED	PLOTTED	DATE



FILE NAME = 230154-ehl-vs-sheets.dgn  
**HAMPTON, LENZINI AND RENWICK, INC.**  
 3885 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62703  
 ILLINOIS PROFESSIONAL DESIGN FIRM  
 LS / PE / SE CORP. 184.000958

USER NAME	= smlerzwa
DESIGNED	= S.A.A.
DRAWN	= T.W.K.
CHECKED	= J.W.F.
DATE	= 03/29/2024
REVISIONS	-

**STATE OF ILLINOIS**  
**KANKAKEE COUNTY HIGHWAY DEPARTMENT**

**STATION CROSS SECTIONS**

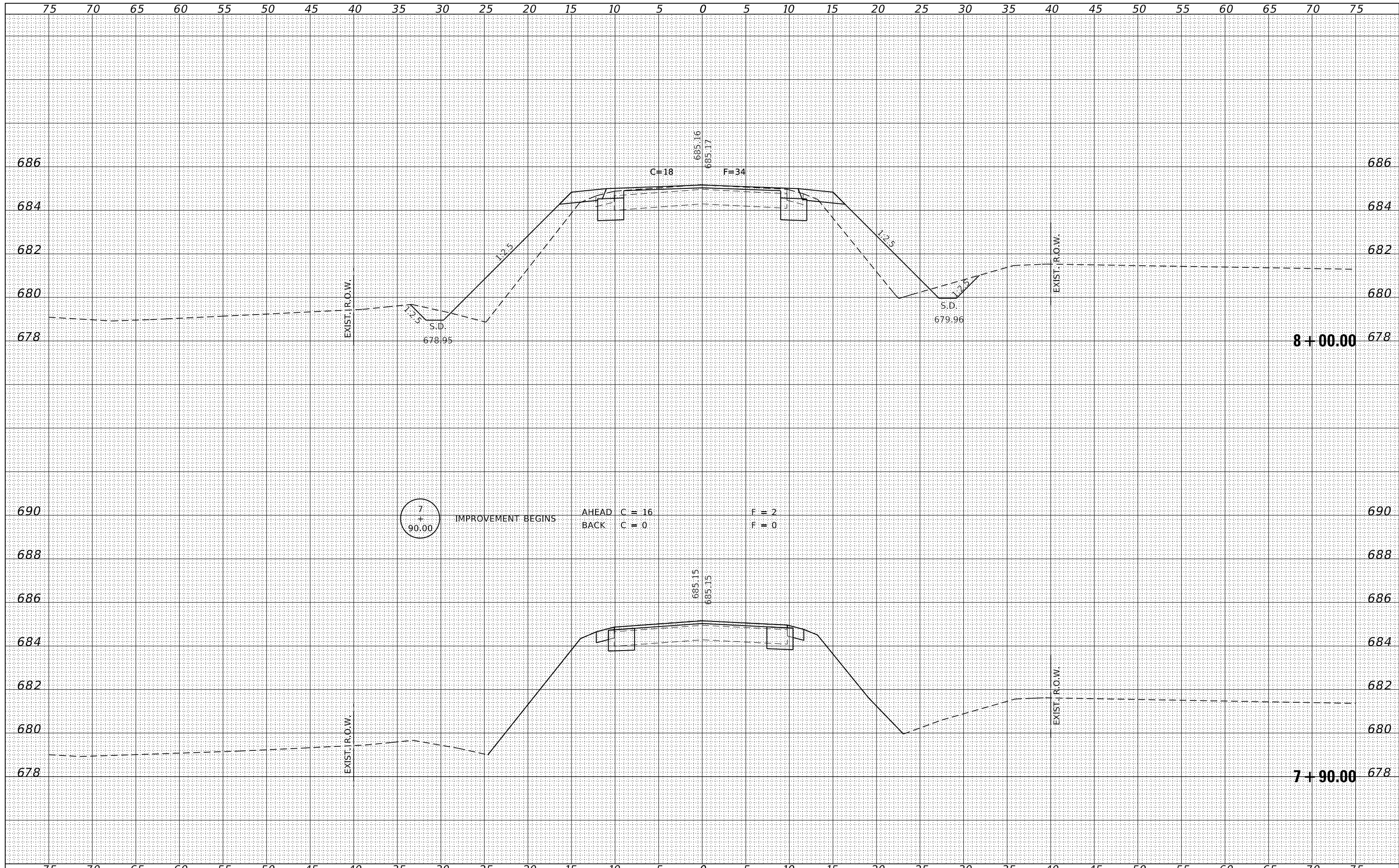
SCALE: 5H:2V      SHEET NO. 1 OF 22 SHEETS      STA. 7+50.00 TO STA. 7+75.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1327	22-00304-00-BR	KANKAKEE	45	24
CONTRACT NO. 87835				
ILLINOIS PROJECT NO. W16(885)				



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	

DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
NOTE BOOK	
AREAS CHECKED	
NO.	



FILE NAME = 230154-eh1-vs-sheets.dgn  
 DESIGNED - S.A.A.  
 DRAWN - T.W.K.  
 CHECKED - J.W.F.  
 DATE - 03/29/2024

USER NAME = smlerzwa  
 PLOT SCALE = \$\$CALES  
 PLOT DATE = 4/2/2024

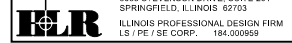
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 REVISIED -

STATE OF ILLINOIS  
 KANKAKEE COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

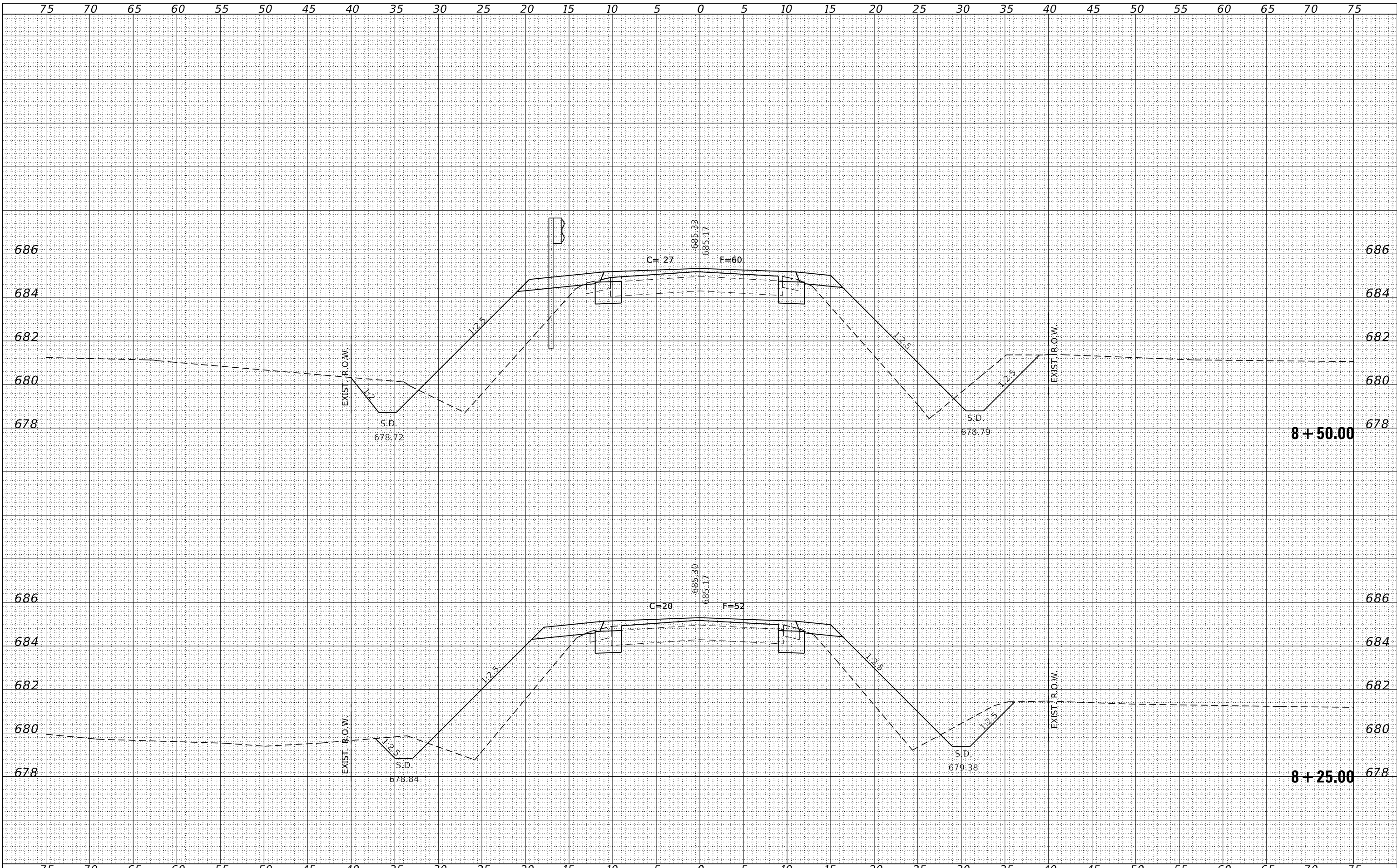
SCALE: 5H:2V SHEET NO. 2 OF 22 SHEETS STA. 7+90.00 TO STA. 8+00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1327	22-00304-00-BR	KANKAKEE	45	25
CONTRACT NO. 87835				
ILLINOIS PROJECT NO. W1F6(885)				



BY	DATE

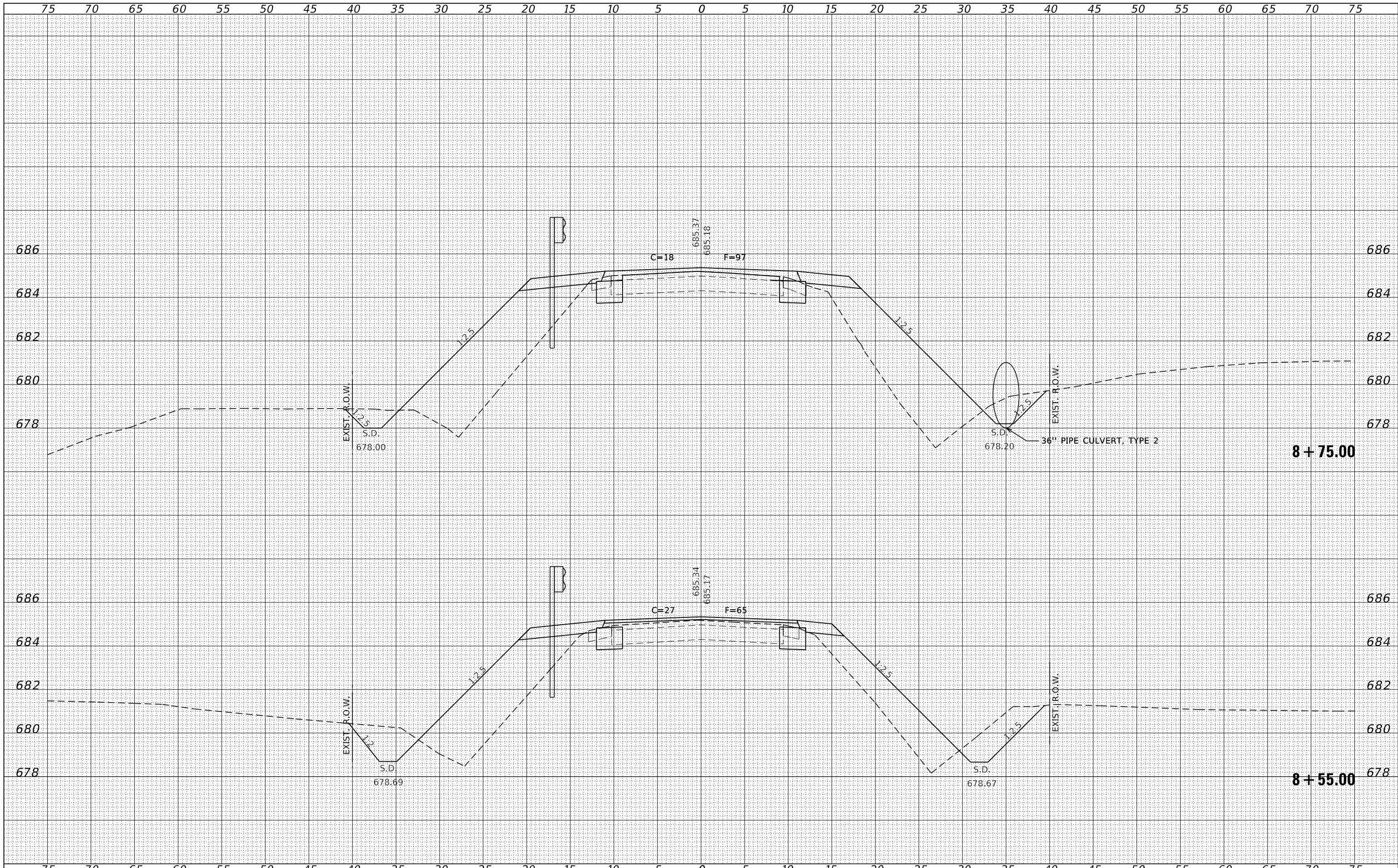
BY	DATE



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HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L5 / PE / SE CORP. 184.009658		DRAWN - T.W.K.	REVISD -		1327	22-00304-00-BR	KANKAKEE	45	26	
PLOT SCALE = \$SCALES		CHECKED - J.W.F.	REVISD -		CONTRACT NO. 87835					
PLOT DATE = 4/2/2024		DATE - 03/29/2024	REVISD -		ILLINOIS PROJECT NO. W16(885)					
SCALE: 5H:2V					SHEET NO. 3 OF 22 SHEETS		STA. 8+25.00 TO STA. 8+50.00			

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

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



FILE NAME = 230154-ehl-vs-sheets.dgn  
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 DESIGNED - S.A.A.  
 DRAWN - T.W.K.  
 CHECKED - J.W.F.  
 DATE - 03/29/2024  
 PLOT SCALE = \$SCALES  
 PLOT DATE = 4/2/2024

DESIGNED - S.A.A.  
 DRAWN - T.W.K.  
 CHECKED - J.W.F.  
 DATE - 03/29/2024

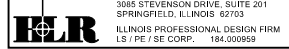
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**STATE OF ILLINOIS  
 KANKAKEE COUNTY HIGHWAY DEPARTMENT**

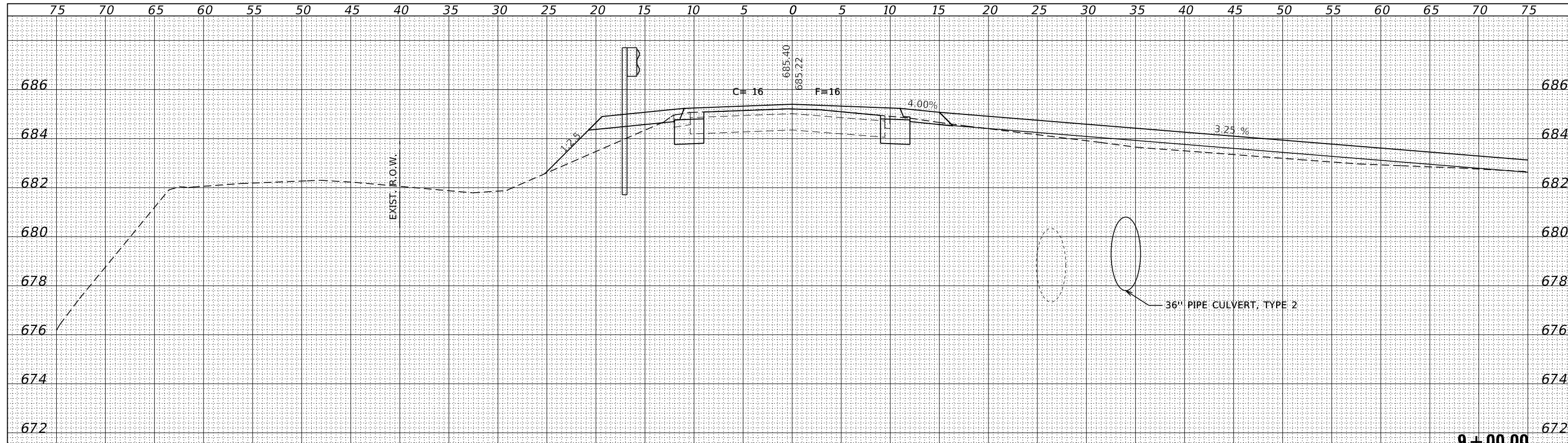
**STATION CROSS SECTIONS**

SCALE: 5H:2V      SHEET NO. 4 OF 22 SHEETS      STA. 8+55.00 TO STA. 8+75.00

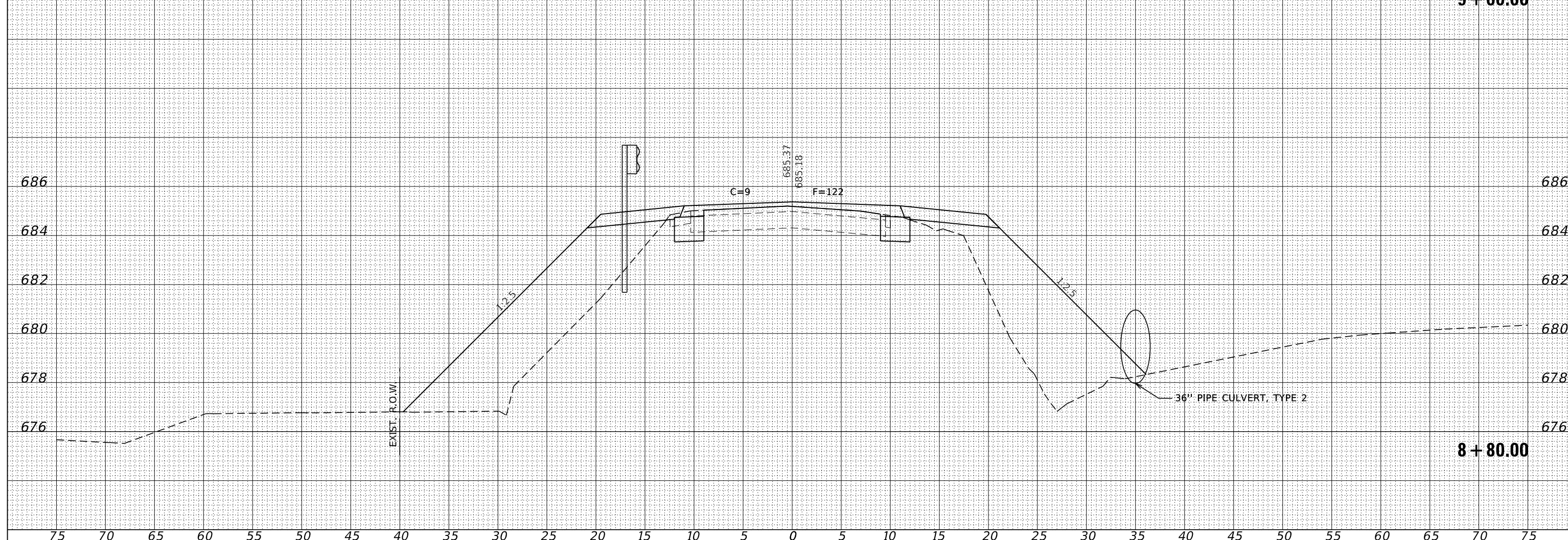
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1327	22-00304-00-BR	KANKAKEE	45	27
CONTRACT NO. 87835				
ILLINOIS PROJECT NO. W1F6(885)				



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



DATE	
BY	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
CHECKED	
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NOTE BOOK	
NO.	



FILE NAME = 230154-ehf-vs-sheets.dgn  
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 DESIGNED - S.A.A.  
 DRAWN - T.W.K.  
 CHECKED - J.W.F.  
 DATE - 03/29/2024

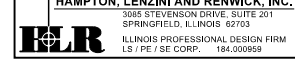
PLOT SCALE = \$SCALES  
 PLOT DATE = 4/2/2024

REVISIED -  
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 REVISIED -

STATE OF ILLINOIS  
 KANKAKEE COUNTY HIGHWAY DEPARTMENT

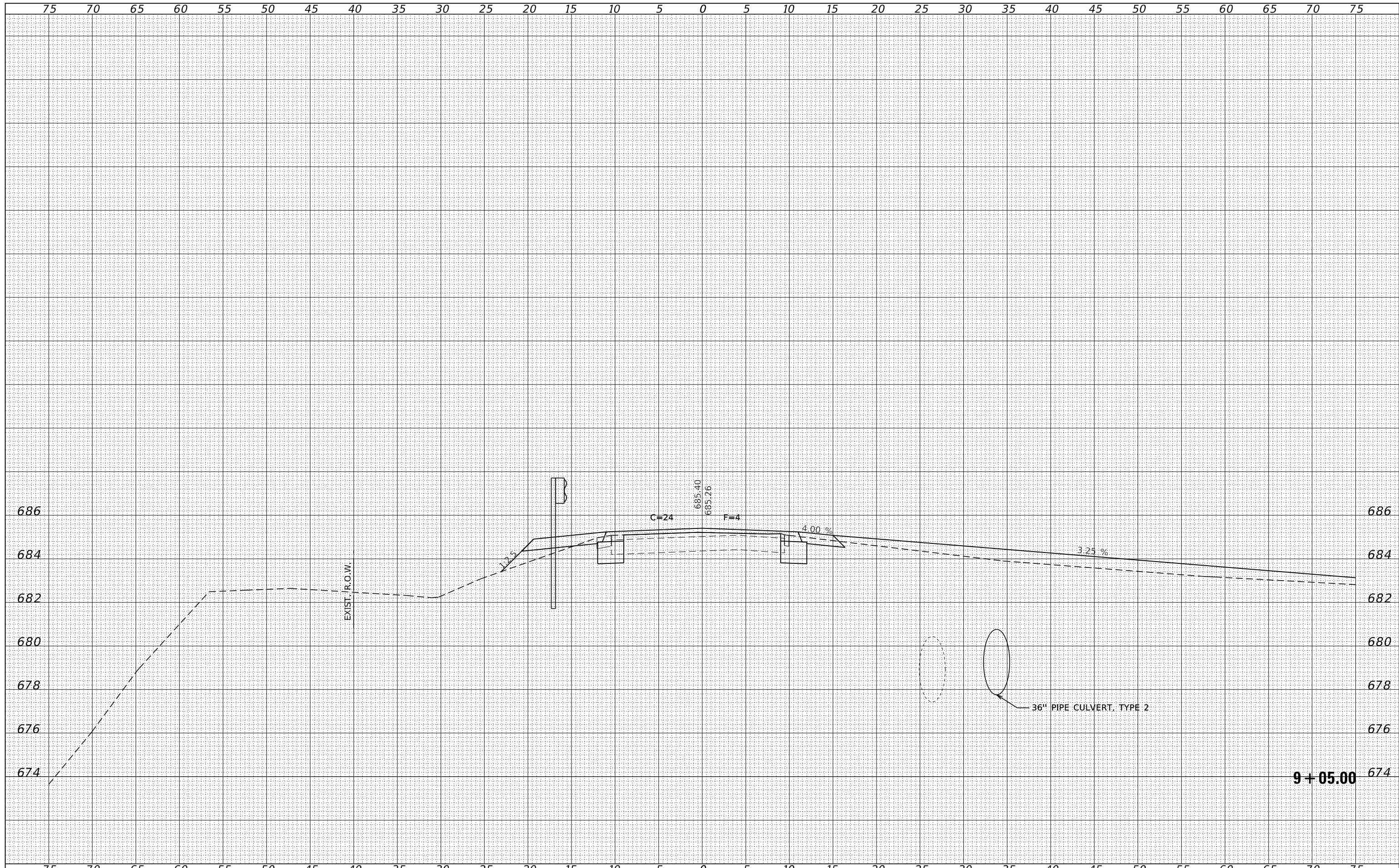
STATION CROSS SECTIONS  
 SCALE: 5H:2V  
 SHEET NO. 5 OF 22 SHEETS  
 STA. 8+80.00 TO STA. 9+00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1327	22-00304-00-BR	KANKAKEE	45	28
CONTRACT NO. 87835				
ILLINOIS PROJECT NO. W1F6(885)				



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

BY	DATE	SURVEYED	PLOTTED
ORIGINAL			
SURVEY			
NOTE BOOK			
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		AREAS	CHECKED

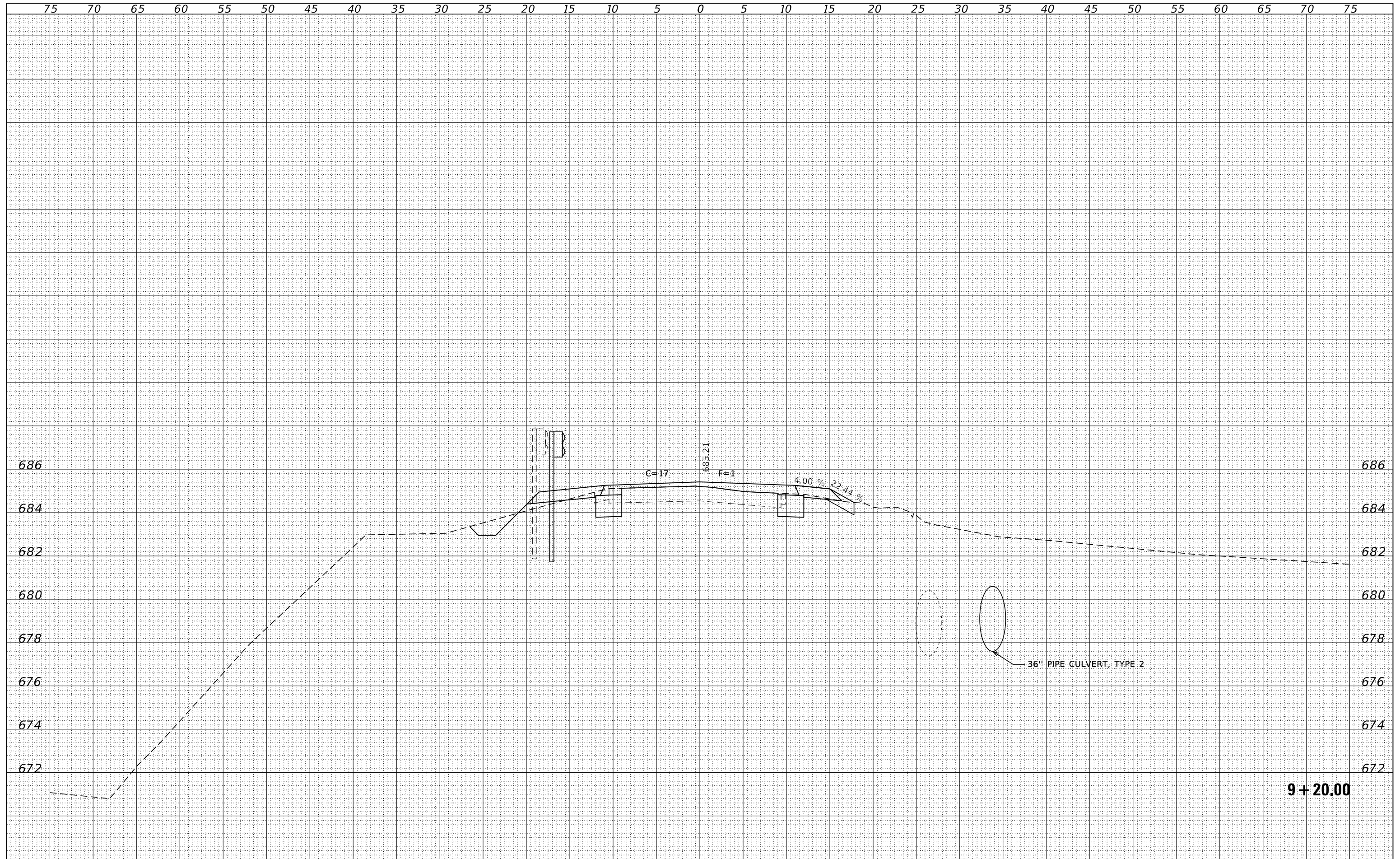


9 + 05.00

FILE NAME = 230154-eh1-vs-sheets.dgn				USER NAME = smlerzwa		DESIGNED - S.A.A.		REVISED -		<b>STATE OF ILLINOIS KANKAKEE COUNTY HIGHWAY DEPARTMENT</b>	<b>STATION CROSS SECTIONS</b>				F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMP顿, LENZINI AND RENWICK, INC. 3888 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62704 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184.009958				DRAWN - T.W.K.		CHECKED - J.W.F.		REVISED -			1327	22-00304-00-BR	KANKAKEE	45	29	CONTRACT NO. 87835			
PLOT SCALE = \$\$SCALES		PLOT DATE = 4/2/2024		DATE = 03/29/2024		REVISED -		SCALE: 5H:2V			SHEET NO. 6 OF 22 SHEETS		STA. 9+05.00 TO STA. 9+05.00		ILLINOIS PROJECT NO. W1F6(885)				

FINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE

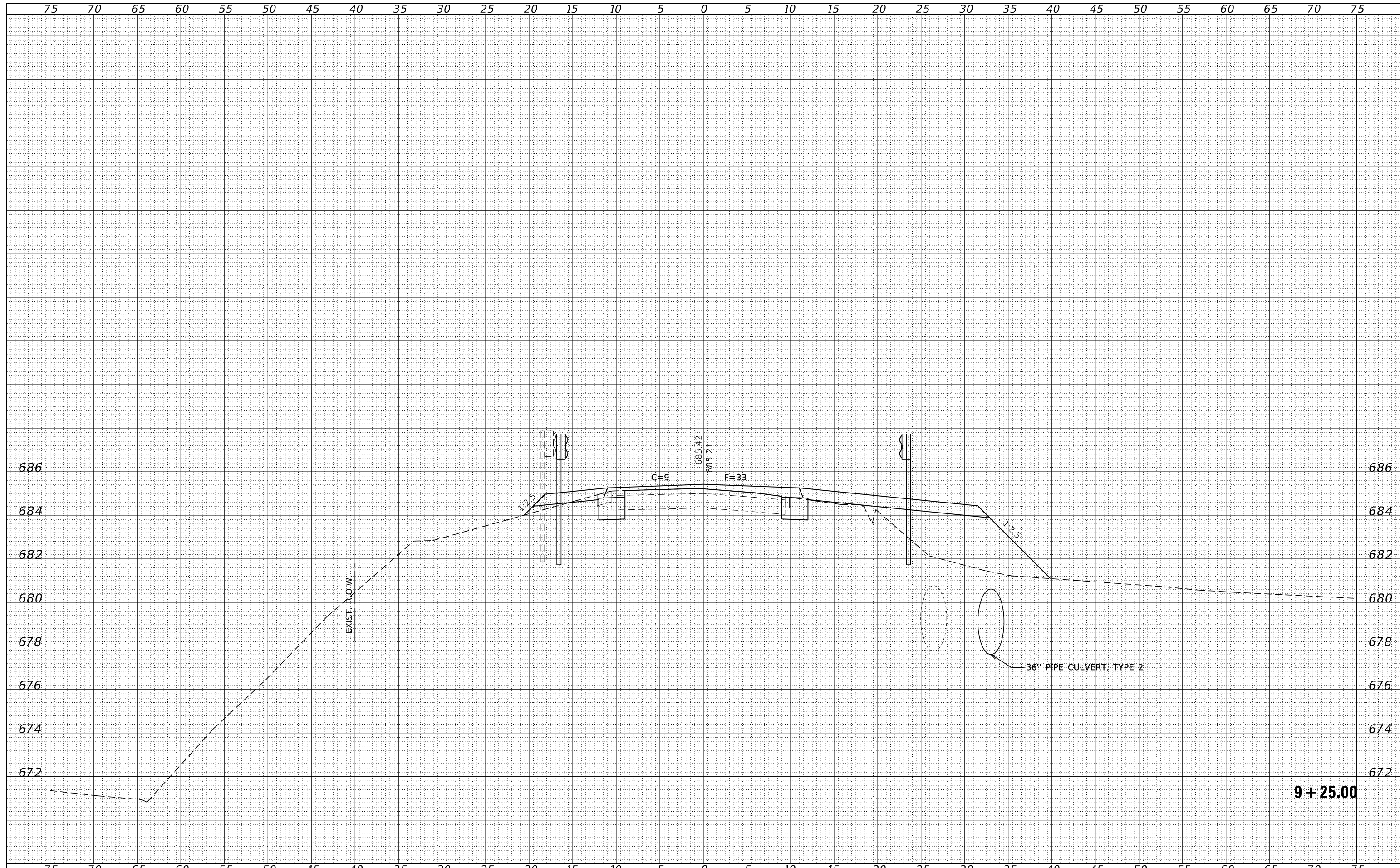
ORIGINAL SURVEY NO.	SURVEYED PLOTTED AREAS CHECKED	BY	DATE



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HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62704 ILLINOIS PROFESSIONAL DESIGN FIRM L/S / PE / SE CORP. 184.000958	PLOT SCALE = \$Scales\$	CHECKED - J.W.F.	REVISIONS			SCALE: 5H:2V	SHEET NO. 7 OF 22 SHEETS	STA. 9+20.00	TO STA. 9+20.00	CONTRACT NO. 87835		
PLOT DATE = 4/2/2024	DATE = 03/29/2024	REVISIONS	ILLINOIS PROJECT NO. W1F6(885)									

FINAL SURVEY NO.	
SURVEYED	
PLOTTED	
TEMPLATE	
AREAS	
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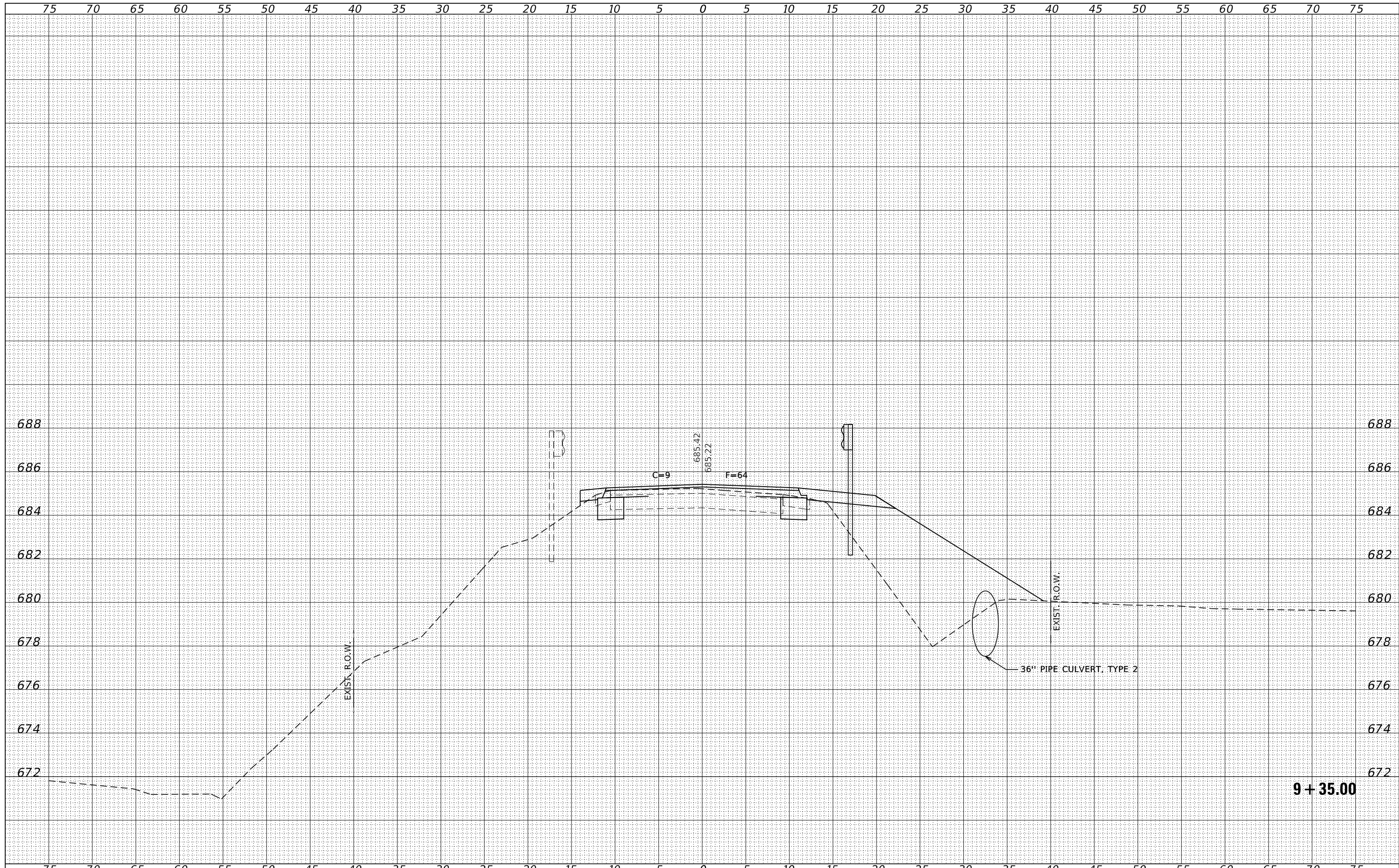
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BY	
DATE	



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HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62781 ILLINOIS PROFESSIONAL DESIGN FIRM L.S./P.E. CORP. 184.009959	PLOT SCALE = \$SCALE\$	DRAWN - T.W.K.	REvised -		1327	22-00304-00-BR	KANKAKEE	45	31		
PLOT DATE = 4/2/2024	DATE - 03/29/2024	CHECKED - J.W.F.	REvised -		CONTRACT NO. 87835						
		REvised -			SCALE: 5H:2V	SHEET NO. 8 OF 22 SHEETS	STA. 9+25.00 TO STA. 9+25.00	ILLINOIS PROJECT NO. W1F6(885)			

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

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



9 + 35.00

FILE NAME = 230154-cht-vs-sheets.dgn  
 DESIGNED - S.A.A.  
 DRAWN - T.W.K.  
 CHECKED - J.W.F.  
 DATE - 03/29/2024

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 PLOT DATE = 4/2/2024

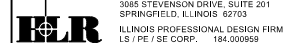
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**STATE OF ILLINOIS**  
**KANKAKEE COUNTY HIGHWAY DEPARTMENT**

**STATION CROSS SECTIONS**

SCALE: 5H:2V SHEET NO. 9 OF 22 SHEETS STA. 9+35.00 TO STA. 9+35.00

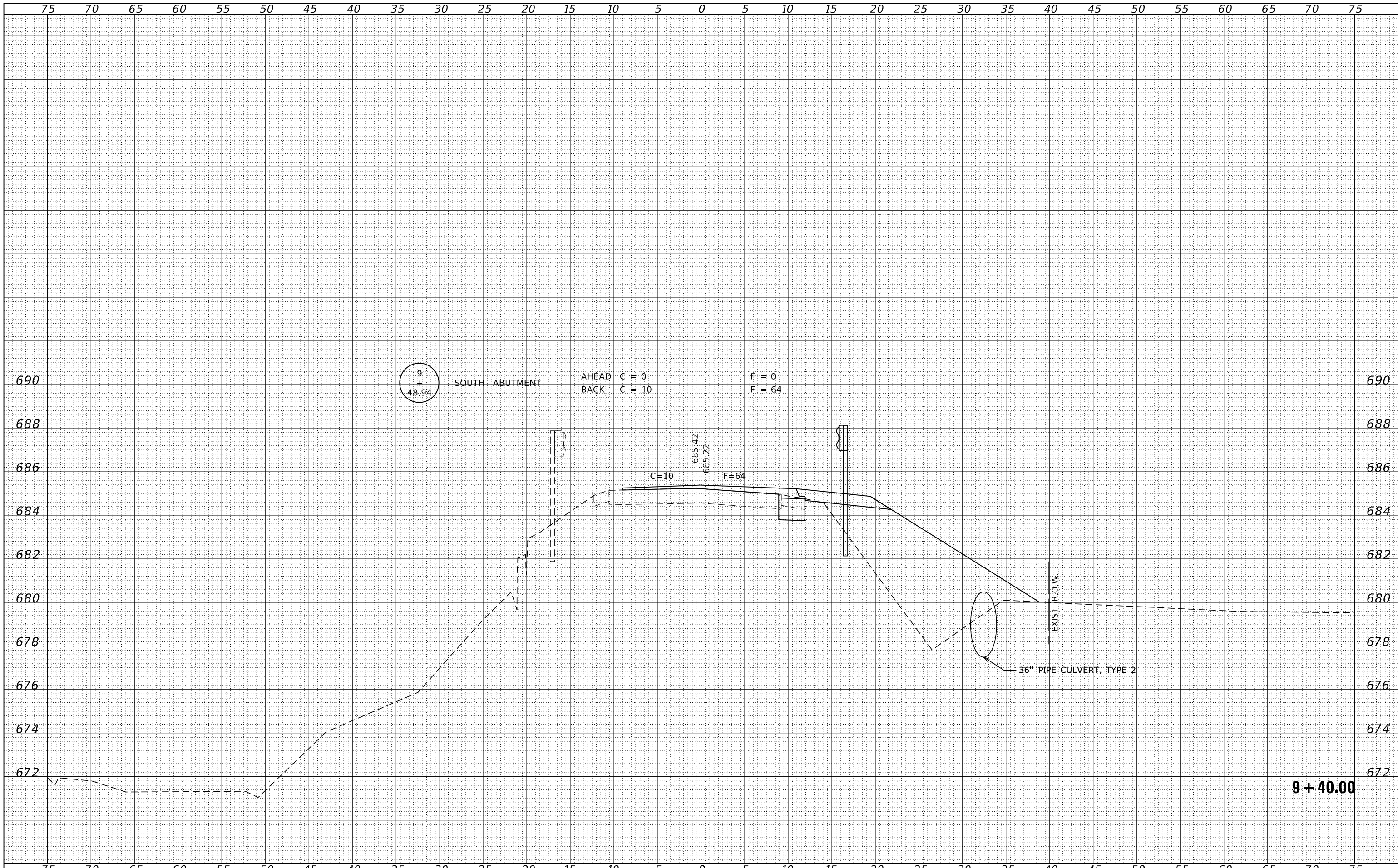
F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1327	22-00304-00-BR	KANKAKEE	45	32
CONTRACT NO. 87835				
ILLINOIS PROJECT NO. WIFR(885)				





DATE	
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SURVEYED	
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TEMPLATE	
AREAS	
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FINAL SURVEY	
NOTE BOOK	
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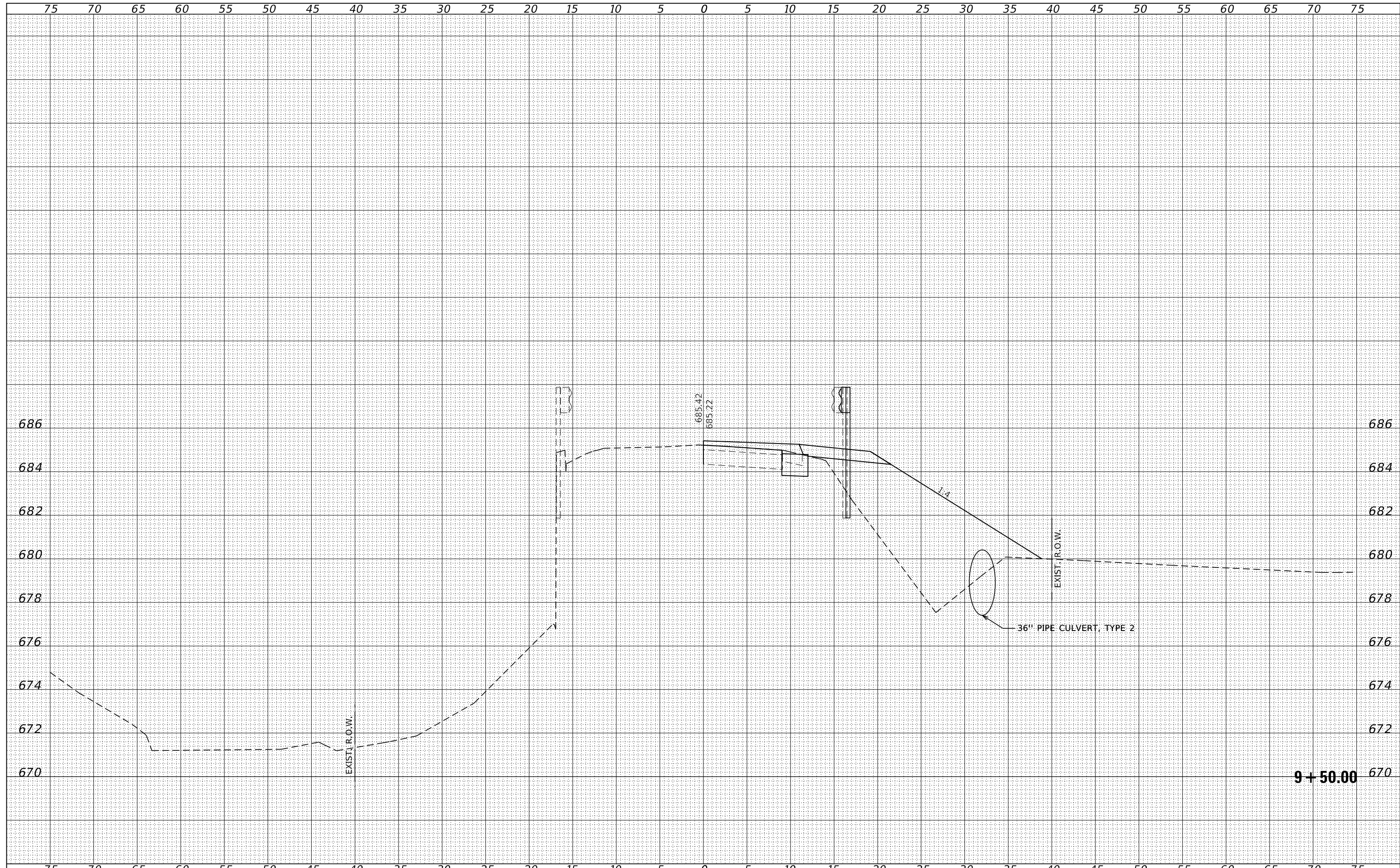
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NOTE BOOK	
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FILE NAME = 230154-ehf-vs-sheets.dgn	USER NAME = smlerzwa	DESIGNED - S.A.A.	REVISD -	<b>STATE OF ILLINOIS</b> <b>KANKAKEE COUNTY HIGHWAY DEPARTMENT</b>	<b>STATION CROSS SECTIONS</b>			F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62704 ILLINOIS PROFESSIONAL DESIGN FIRM L/S / PE / SE CORP. 184.009958		DRAWN - T.W.K.	REVISD -		1327	22-00304-00-BR	KANKAKEE	45	33			
PLOT SCALE = \$SCALES		CHECKED - J.W.F.	REVISD -		CONTRACT NO. 87835							
PLOT DATE = 4/2/2024		DATE - 03/29/2024	REVISD -		SCALE: 5H:2V	SHEET NO. 10 OF 22 SHEETS	STA. 9+40.00 TO STA. 9+40.00	ILLINOIS PROJECT NO. W1F6(885)				

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

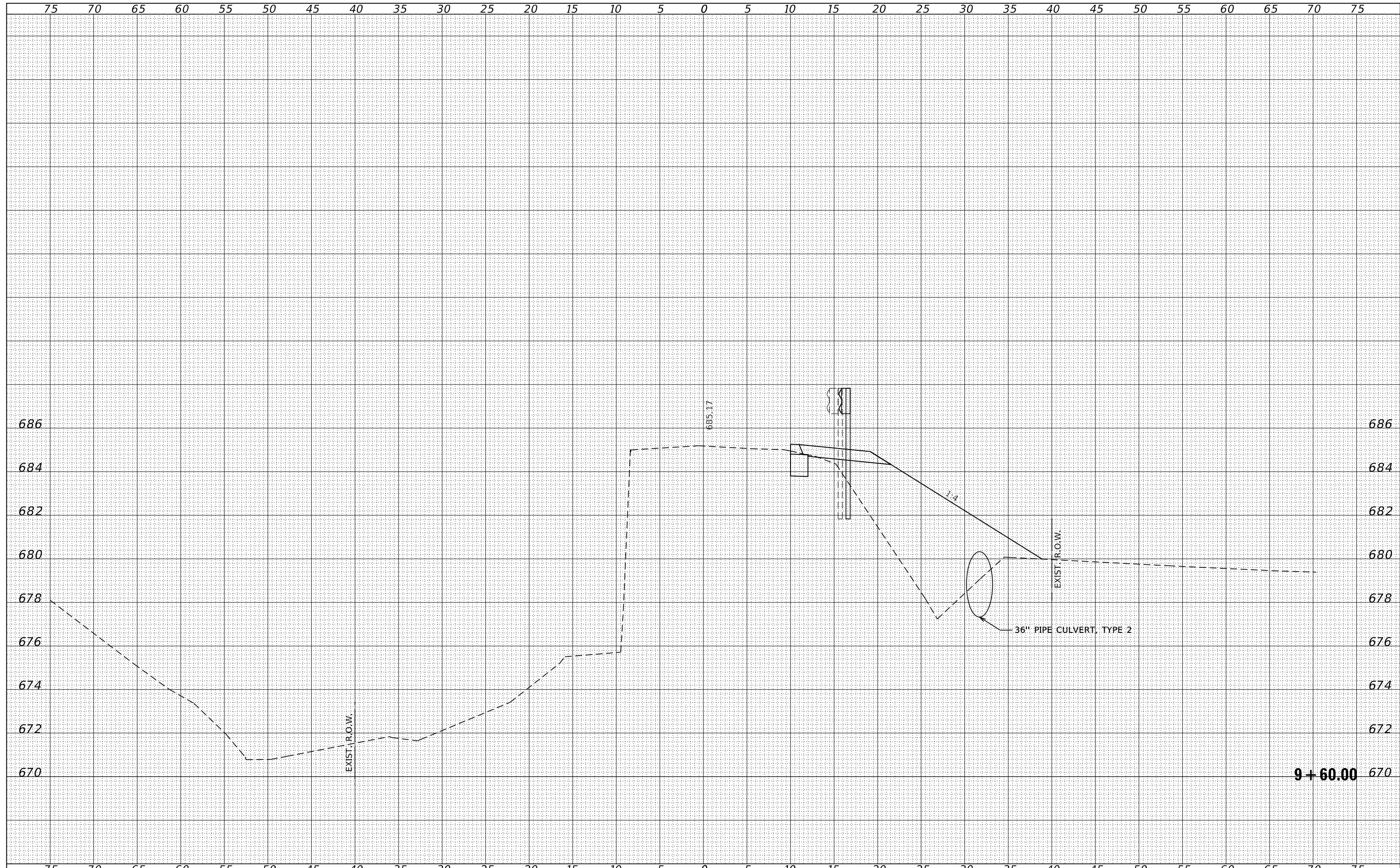
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ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS
	CHECKED



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HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62761 ILLINOIS PROFESSIONAL DESIGN FIRM L/S / PE / SE CORP. 184.000958		DRAWN - T.W.K.	REVISD -		1327	22-00304-00-BR	KANKAKEE	45	34			
PLOT SCALE = \$SCALES		CHECKED - J.W.F.	REVISD -		CONTRACT NO. 87835							
PLOT DATE = 4/2/2024		DATE - 03/29/2024	REVISD -		SCALE: 5H:2V	SHEET NO. 11 OF 22 SHEETS	STA. 9+50.00 TO STA. 9+50.00	ILLINOIS PROJECT NO. W1F6(885)				

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



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 DESIGNED - S.A.A.  
 DRAWN - T.W.K.  
 CHECKED - J.W.F.  
 DATE - 03/29/2024

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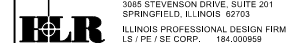
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 CHECKED - J.W.F.  
 DATE - 03/29/2024

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STATE OF ILLINOIS  
 KANKAKEE COUNTY HIGHWAY DEPARTMENT

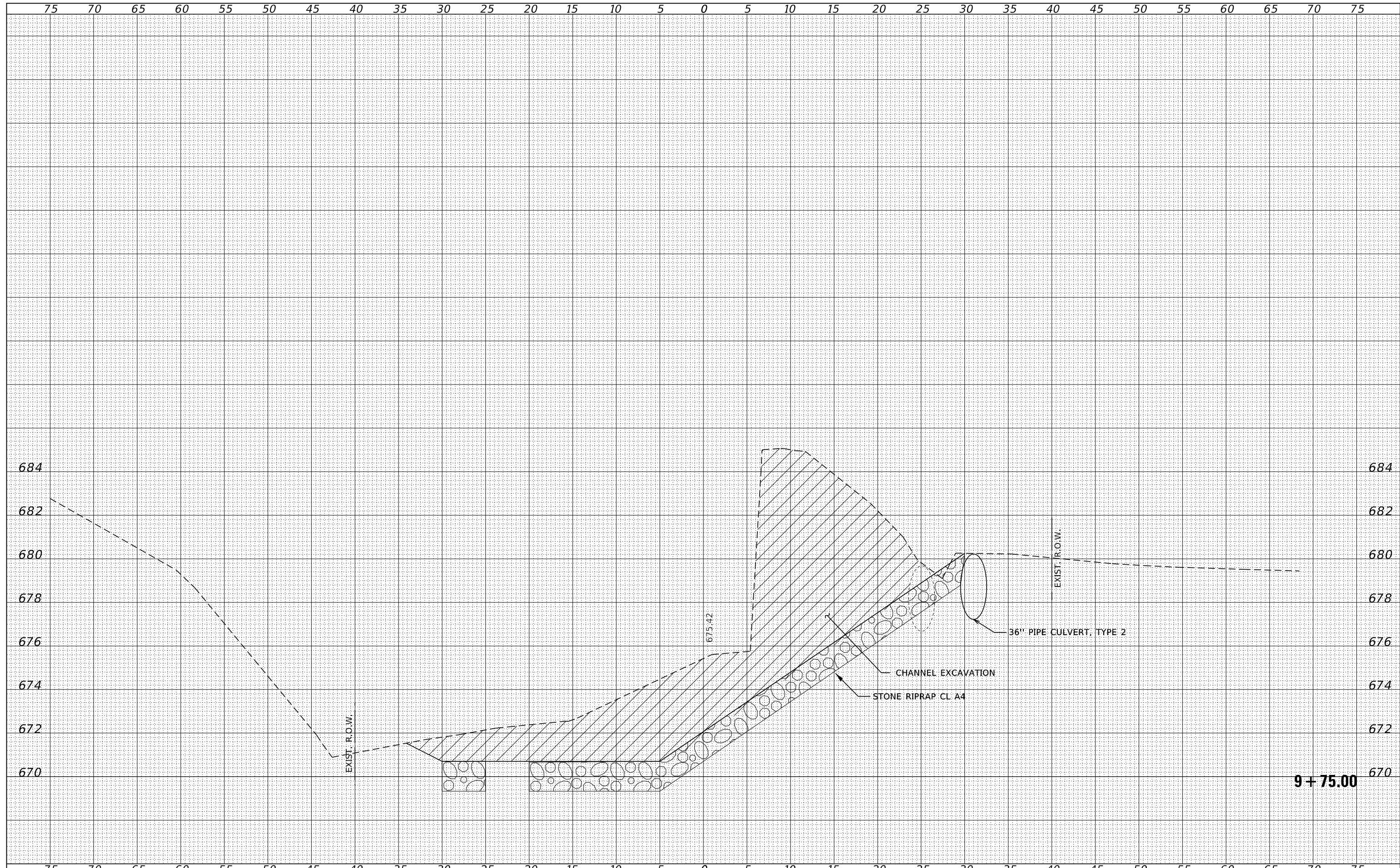
STATION CROSS SECTIONS  
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 SHEET NO. 12 OF 22 SHEETS  
 STA. 9+60.00 TO STA. 9+60.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1327	22-00304-00-BR	KANKAKEE	45	35
CONTRACT NO. 87835				
ILLINOIS PROJECT NO. W1F6(885)				



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

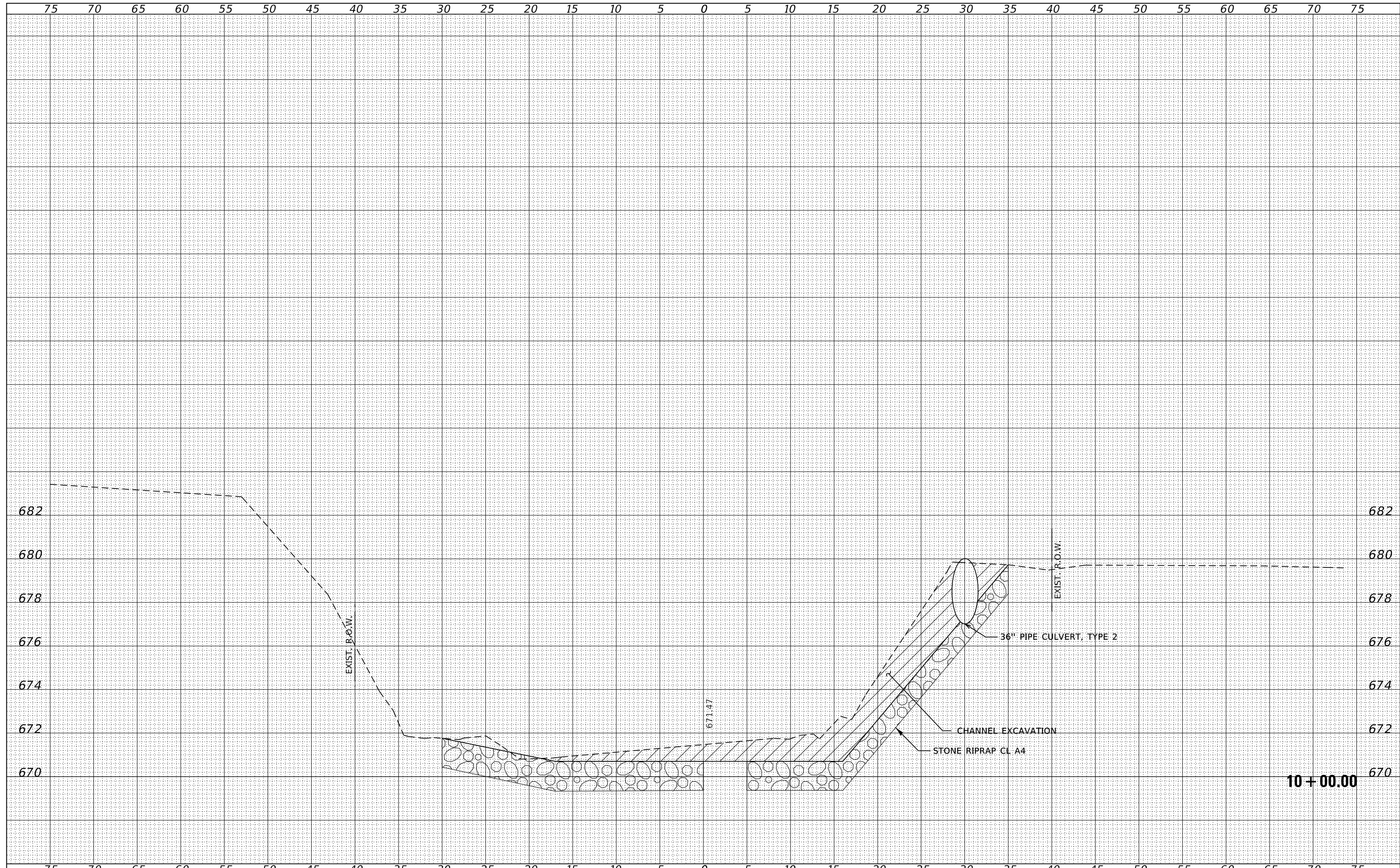
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FILE NAME = 230154-eh1-vs-sheets.dgn	USER NAME = smlerzwa	DESIGNED - S.A.A.	REVISD -	<b>STATE OF ILLINOIS</b> <b>KANKAKEE COUNTY HIGHWAY DEPARTMENT</b>	<b>STATION CROSS SECTIONS</b>			F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62704 ILLINOIS PROFESSIONAL DESIGN FIRM L/S / PE / SE CORP. 184.000958	PLOT SCALE = \$Scales	DRAWN - T.W.K.	REVISD -		1327	22-00304-00-BR	KANKAKEE	45	36			
PLOT DATE = 4/2/2024	DATE - 03/29/2024	CHECKED - J.W.F.	REVISD -		CONTRACT NO. 87835			ILLINOIS PROJECT NO. W1F6(885)				
		DATE - 03/29/2024	REVISD -		SCALE: 5H:2V	SHEET NO. 13 OF 22 SHEETS	STA. 9+75.00 TO STA. 9+75.00					

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

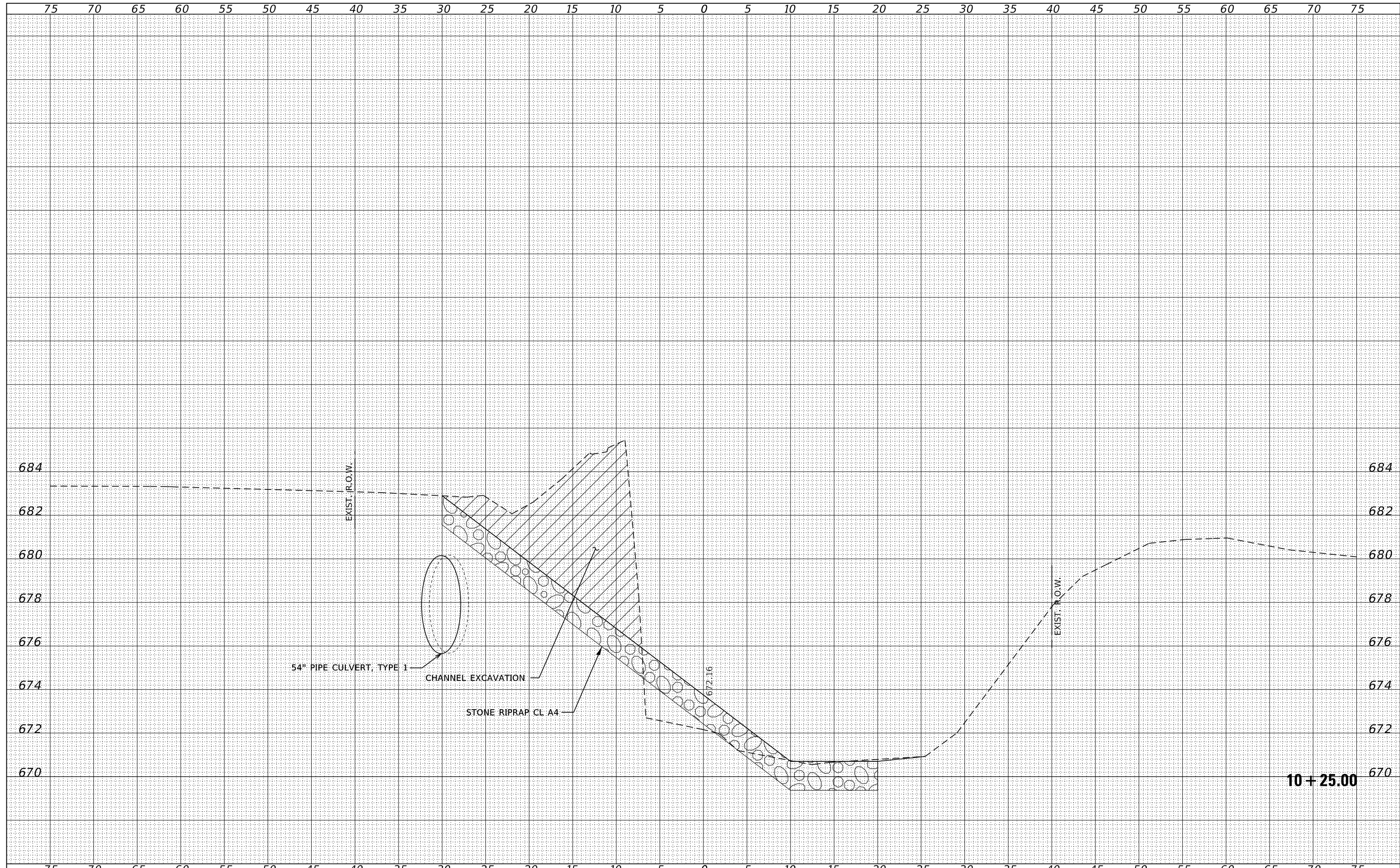
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NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED



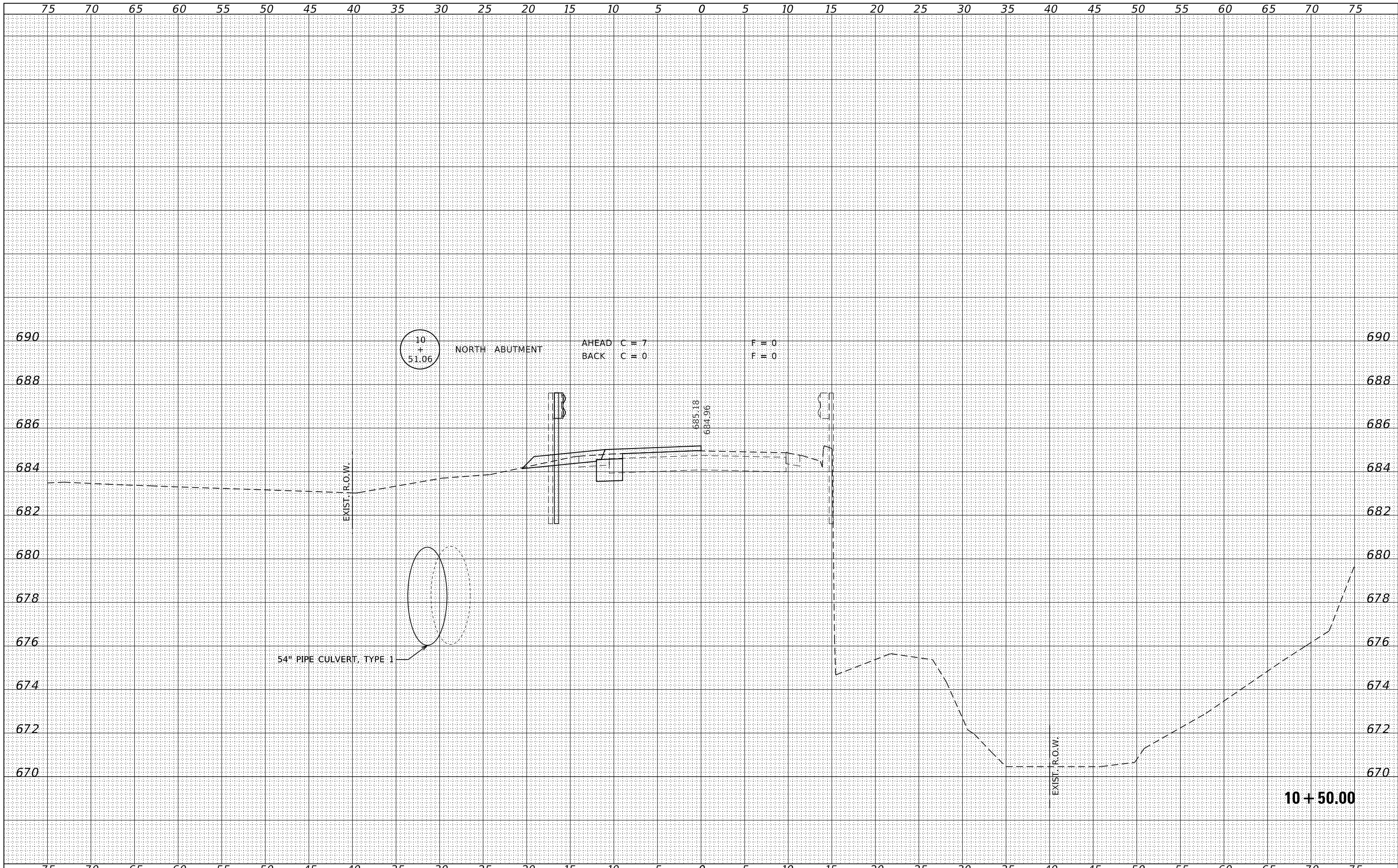
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<b>HAMPTON, LENZINI AND RENWICK, INC.</b> 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L/S / PE / SE CORP. 184.009958	PLOT SCALE = \$S\$ALES	DRAWN - T.W.K.	REVISED -			1327	22-00304-00-BR	KANKAKEE	45	37	
PLOT DATE = 4/2/2024	CHECKED - J.W.F.	REVISED -	SCALE: 5H:2V			SHEET NO. 14 OF 22 SHEETS	STA. 10+00.00 TO STA. 10+00.00	CONTRACT NO. 87835			
	DATE - 03/29/2024	REVISED -	ILLINOIS PROJECT NO. W1F6(885)								

DATE	
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FINAL SURVEY	
NOTE BOOK	
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ORIGINAL SURVEY	
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FILE NAME = 230154-ehf-vs-sheets.dgn	USER NAME = smlerzwa	DESIGNED - S.A.A.	REVISED -	<b>STATE OF ILLINOIS</b> <b>KANKAKEE COUNTY HIGHWAY DEPARTMENT</b>	<b>STATION CROSS SECTIONS</b>				F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62704 ILLINOIS PROFESSIONAL DESIGN FIRM L/S / PE / SE CORP. 184.009958	PLOT SCALE = \$Scales	DRAWN - T.W.K.	REVISED -		1327	22-00304-00-BR	KANKAKEE	45	38				
PLOT DATE = 4/2/2024	CHECKED - J.W.F.	REVISED -	SCALE: 5H:2V		SHEET NO. 15 OF 22 SHEETS	STA. 10+25.00 TO STA. 10+25.00	CONTRACT NO. 87835						
DATE - 03/29/2024	REVISED -	ILLINOIS PROJECT NO. WIF6(885)											



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ORIGINAL SURVEY NO.	

FILE NAME = 230154-ehf-vs-sheets.dgn  
 DESIGNED - S.A.A.  
 DRAWN - T.W.K.  
 CHECKED - J.W.F.  
 DATE - 03/29/2024

USER NAME = smlerzwa  
 PLOT SCALE = \$Scales\$  
 PLOT DATE = 4/2/2024

DESIGNED - S.A.A.  
 DRAWN - T.W.K.  
 CHECKED - J.W.F.  
 DATE - 03/29/2024

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**STATE OF ILLINOIS  
 KANKAKEE COUNTY HIGHWAY DEPARTMENT**

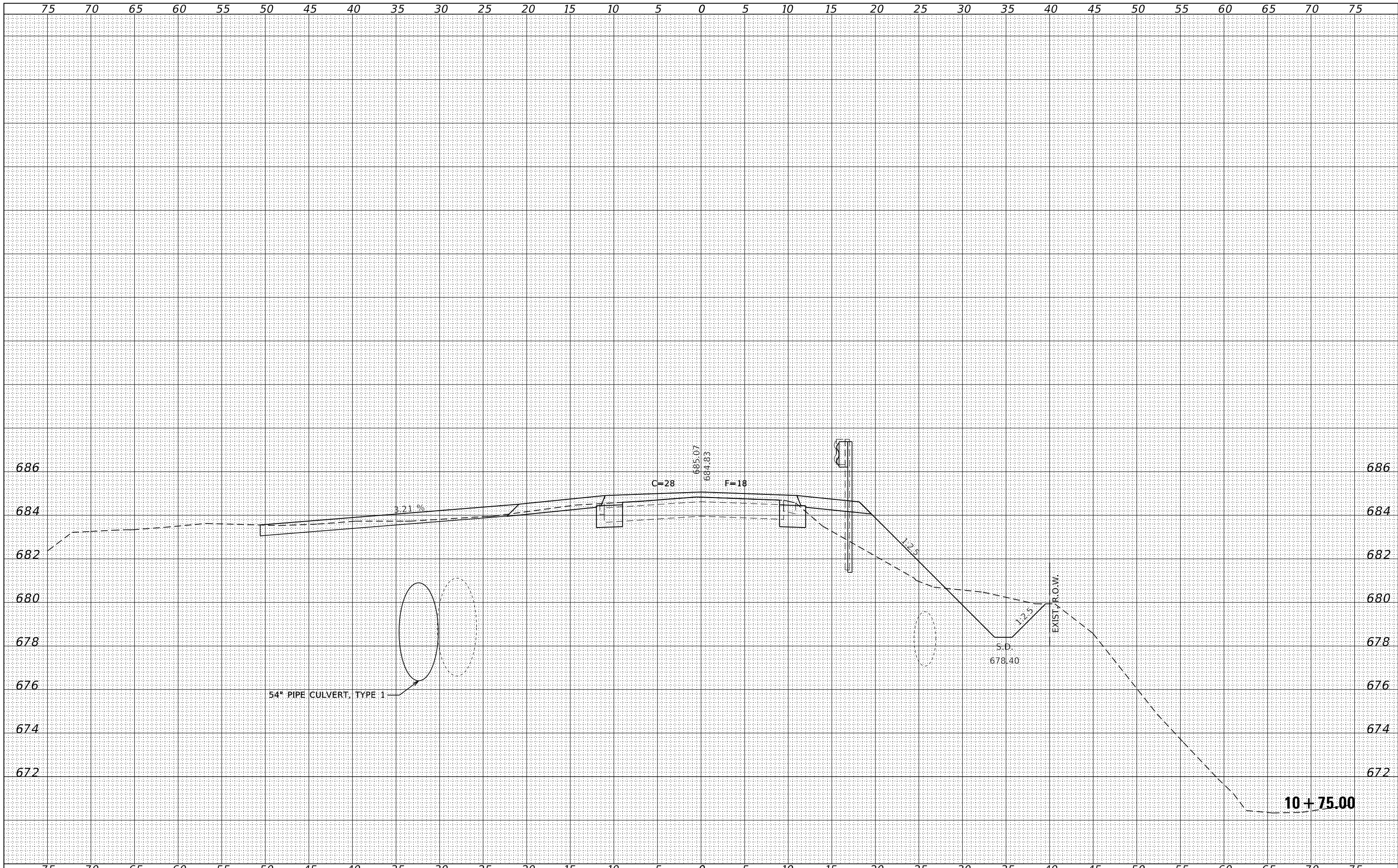
**STATION CROSS SECTIONS**

SCALE: 5H:2V      SHEET NO. 16 OF 22 SHEETS      STA. 10+50.00 TO STA. 10+50.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1327	22-00304-00-BR	KANKAKEE	45	39
CONTRACT NO. 87835				
ILLINOIS PROJECT NO. WIF6(885)				

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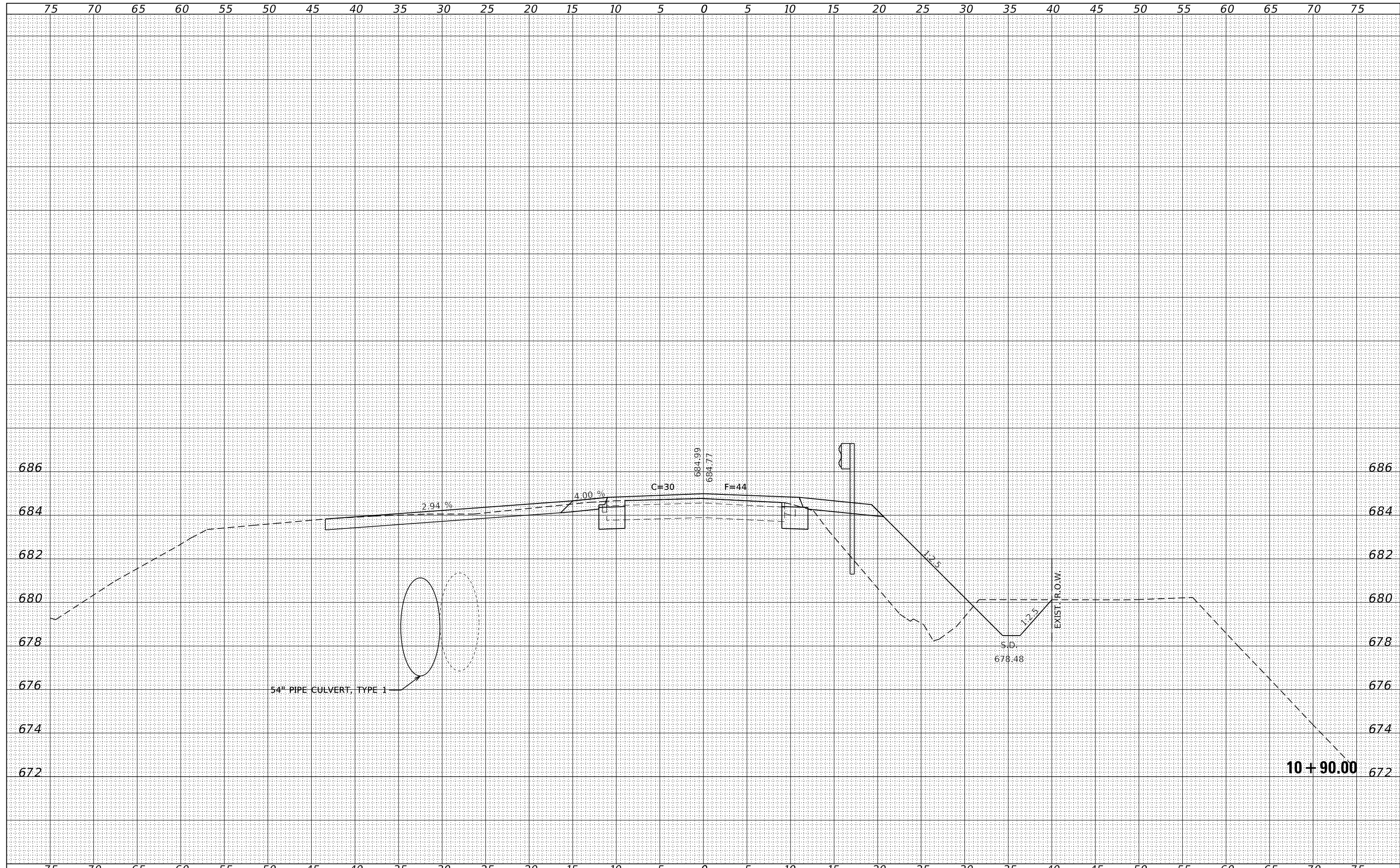


FILE NAME = 230154-ehf-vs-sheets.dgn	USER NAME = smlerzwa	DESIGNED - S.A.A.	REVISED -	<b>STATE OF ILLINOIS</b> <b>KANKAKEE COUNTY HIGHWAY DEPARTMENT</b>	<b>STATION CROSS SECTIONS</b>			F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62761 ILLINOIS PROFESSIONAL DESIGN FIRM L8 / PE / SE CORP. 184.009959	PLOT SCALE = \$S\$CALES	DRAWN - T.W.K.	REVISED -		1327	22-00304-00-BR	KANKAKEE	45	40			
PLOT DATE = 4/2/2024	DATE - 03/29/2024	CHECKED - J.W.F.	REVISED -		CONTRACT NO. 87835			ILLINOIS PROJECT NO. WIF6(885)				
		DATE - 03/29/2024	REVISED -		SCALE: 5H:2V	SHEET NO. 17 OF 22 SHEETS	STA. 10+75.00 TO STA. 10+75.00					



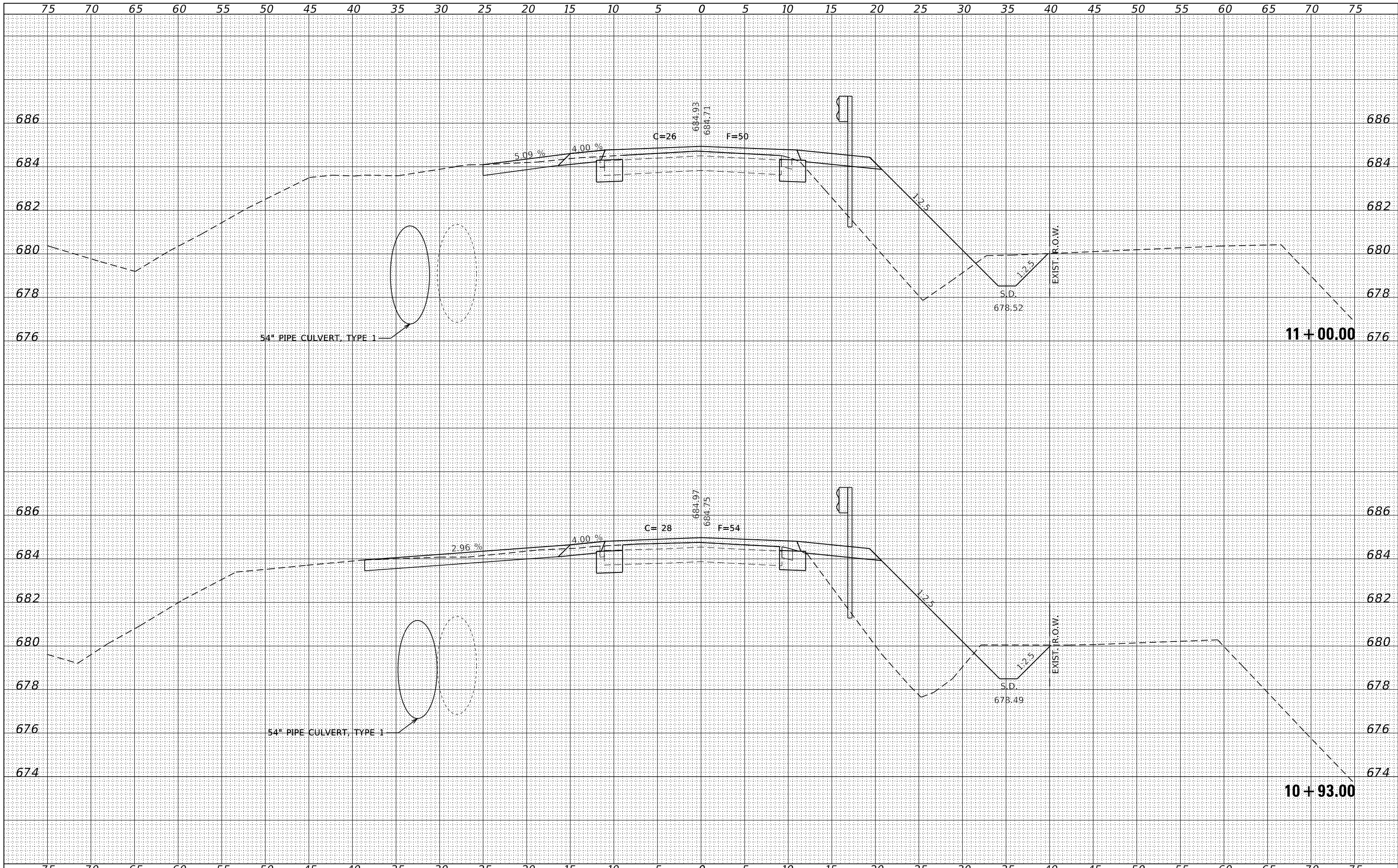
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FINAL SURVEY	
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ORIGINAL SURVEY	SURVEYED
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FILE NAME = 230154-eh1-vs-sheets.dgn  
 USER NAME = smlerzwa  
 DESIGNED - S.A.A.  
 DRAWN - T.W.K.  
 CHECKED - J.W.F.  
 DATE - 03/29/2024  
 PLOT SCALE = \$Scales\$  
 PLOT DATE = 4/2/2024

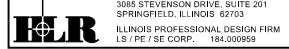
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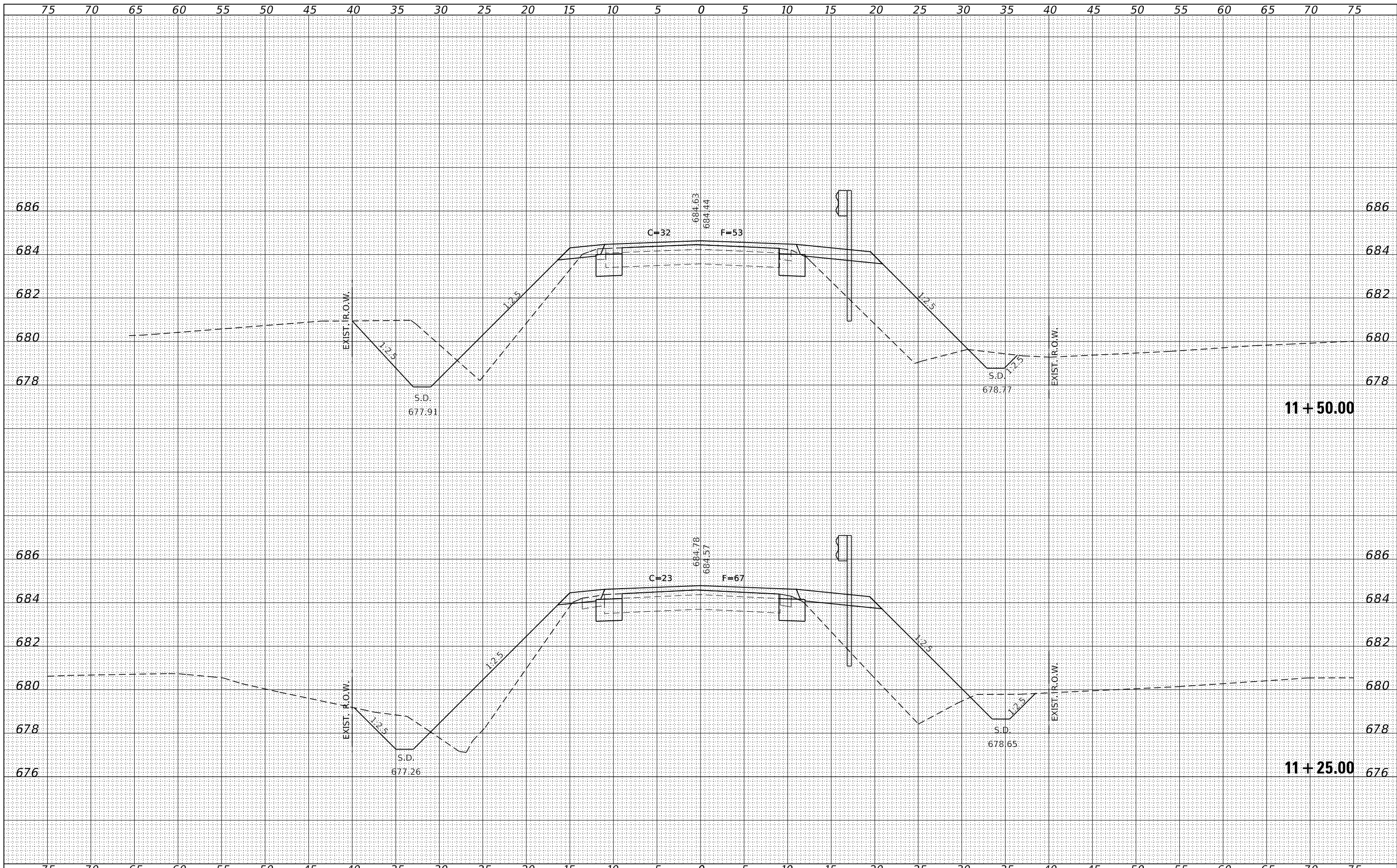
STATE OF ILLINOIS  
 KANKAKEE COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

SCALE: 5H:2V  
 SHEET NO. 19 OF 22 SHEETS  
 STA. 10+93.00 TO STA. 11+00.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1327	22-00304-00-BR	KANKAKEE	45	42
CONTRACT NO. 87835				
ILLINOIS PROJECT NO. W1F6(885)				





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FINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
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	AREAS CHECKED

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ORIGINAL SURVEY	SURVEYED
NOTE BOOK NO.	PLOTTED
	TEMPLATE
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FILE NAME = 230154-ehl-vs-sheets.dgn  
 HAMPTON, LENZINI AND RENWICK, INC.  
 3885 STEVENSON DRIVE, SUITE 201  
 SPRINGFIELD, ILLINOIS 62703  
 ILLINOIS PROFESSIONAL DESIGN FIRM  
 LS / PE / SE CORP. 184.009858

USER NAME = smlerzwa  
 PLOT SCALE = \$Scales  
 PLOT DATE = 4/2/2024

DESIGNED - S.A.A.  
 DRAWN - T.W.K.  
 CHECKED - J.W.F.  
 DATE - 03/29/2024

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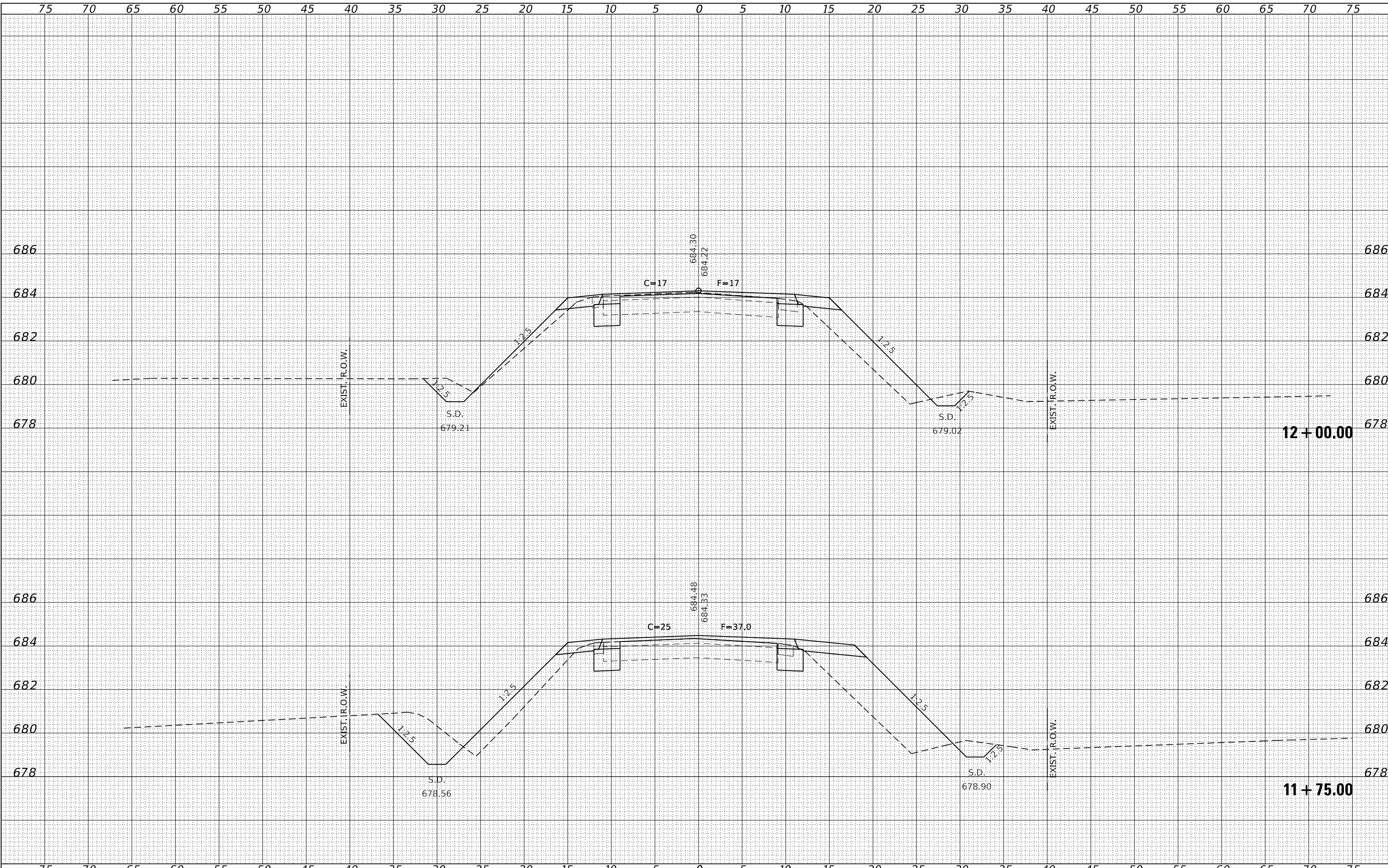
STATE OF ILLINOIS  
 KANKAKEE COUNTY HIGHWAY DEPARTMENT

STATION CROSS SECTIONS

SCALE: 5H:2V SHEET NO. 20 OF 22 SHEETS STA. 11+25.00 TO STA. 11+50.00

F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1327	22-00304-00-BR	KANKAKEE	45	43

CONTRACT NO. 87835  
 ILLINOIS PROJECT NO. WIFR(885)



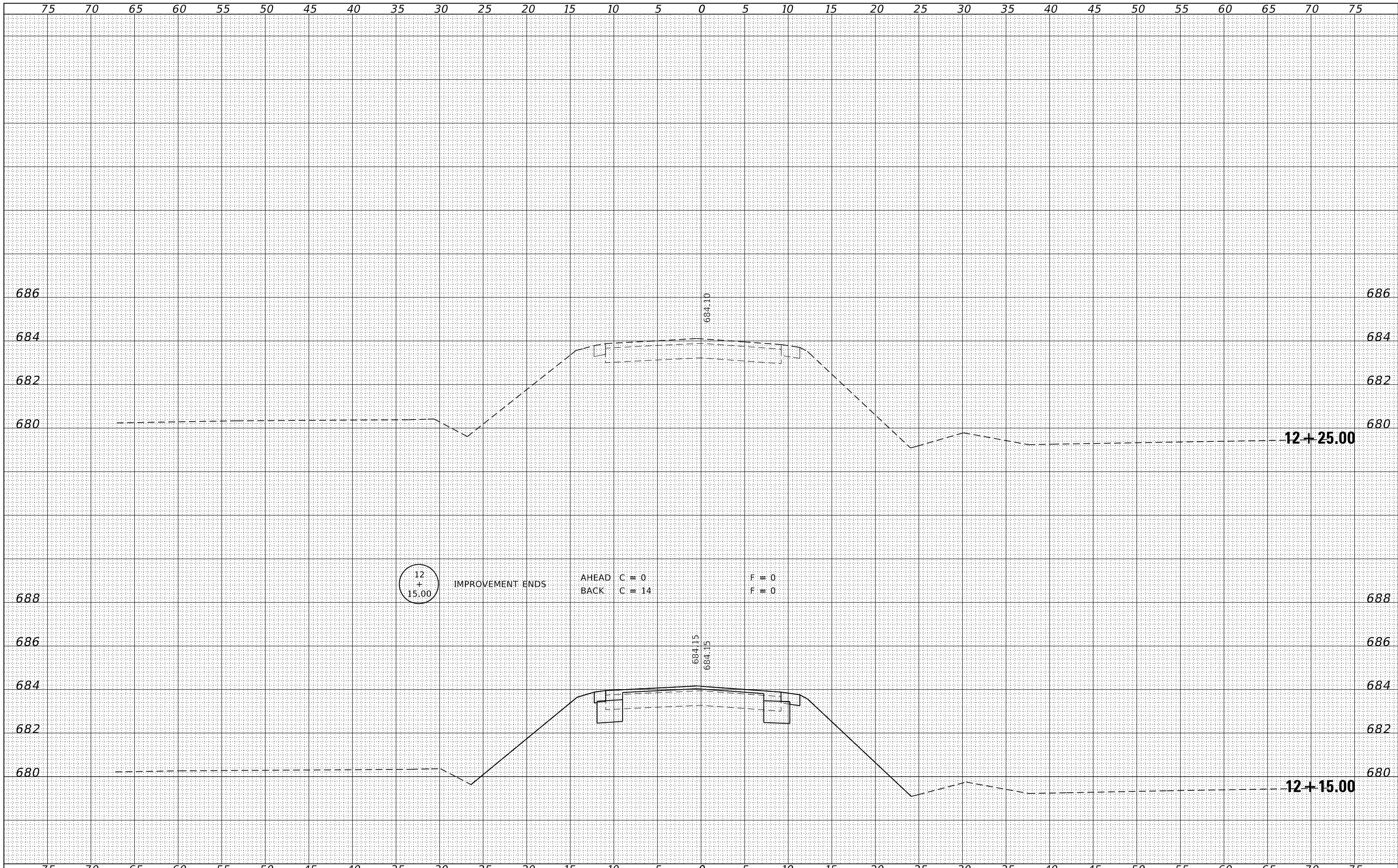
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FINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
NO.	TEMPLATE
	AREAS CHECKED
	AREAS CHECKED

BY	DATE
ORIGINAL SURVEY	SURVEYED
NOTE BOOK	PLOTTED
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	AREAS CHECKED
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HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM LS / PE / SE CORP. 184-009659	PLOT SCALE = \$S CALES	DRAWN - T.W.K.	REVISED -			1327	22-00304-00-BR	KANKAKEE	45	44
PLOT DATE = 4/2/2024	CHECKED - J.W.F.	REVISED -	REVISED -			CONTRACT NO. 87835				
	DATE - 03/29/2024	REVISED -		SCALE: 5H:2V	SHEET NO. 21 OF 22 SHEETS		STA. 11+75.00 TO STA. 12+00.00	ILLINOIS	PROJECT NO. W1F6(885)	

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AREAS CHECKED	

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FILE NAME = 230154-eh1-vs-sheets.dgn	USER NAME = smlerzwa	DESIGNED - S.A.A.	REVISD -	<b>STATE OF ILLINOIS</b> <b>KANKAKEE COUNTY HIGHWAY DEPARTMENT</b>	<b>STATION CROSS SECTIONS</b>			F.A.S.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
HAMPTON, LENZINI AND RENWICK, INC. 3885 STEVENSON DRIVE, SUITE 201 SPRINGFIELD, ILLINOIS 62703 ILLINOIS PROFESSIONAL DESIGN FIRM L/S / PE / SE CORP. 184.009958	PLOT SCALE = \$SCALE\$	DRAWN - T.W.K.	REVISD -		1327	22-00304-00-BR	KANKAKEE	45	45			
PLOT DATE = 4/2/2024	CHECKED - J.W.F.	REVISD -	SCALE: 5H:2V		SHEET NO. 22 OF 22 SHEETS			CONTRACT NO. 87835				
DATE - 03/29/2024	REVISD -	SCALE: 5H:2V	SHEET NO. 22 OF 22 SHEETS			STA. 12+15.00 TO STA. 12+25.00		ILLINOIS PROJECT NO. W1F6(885)				