

**INDEX OF SHEETS**

06-14-2024 LETTING ITEM 029

- 1 COVER SHEET
- 2 GENERAL NOTES, HIGHWAY STANDARDS & COMMITMENTS
- 3 - 9 SUMMARY OF QUANTITIES
- 10 - 13 TYPICAL SECTIONS
- 14 SCHEDULE OF QUANTITIES
- 15 - 16 ALIGNMENT, TIES, AND BENCHMARKS
- 17 REMOVAL PLANS
- 18 - 19 PLAN AND PROFILE
- 20 INTERSECTION DETAILS
- 21 - 25 MAINTENANCE OF TRAFFIC
- 26 EROSION CONTROL PLAN
- 27 CAUSEWAY WORKPAD
- 28 - 52 STRUCTURE PLANS
- 53 - 64 EXISTING STRUCTURE PLANS
- 65 - 66 ROADWAY DETAILS
- 67 - 79 CROSS SECTIONS

**SEE SHEET NO. 2 FOR LIST OF HIGHWAY STANDARDS**

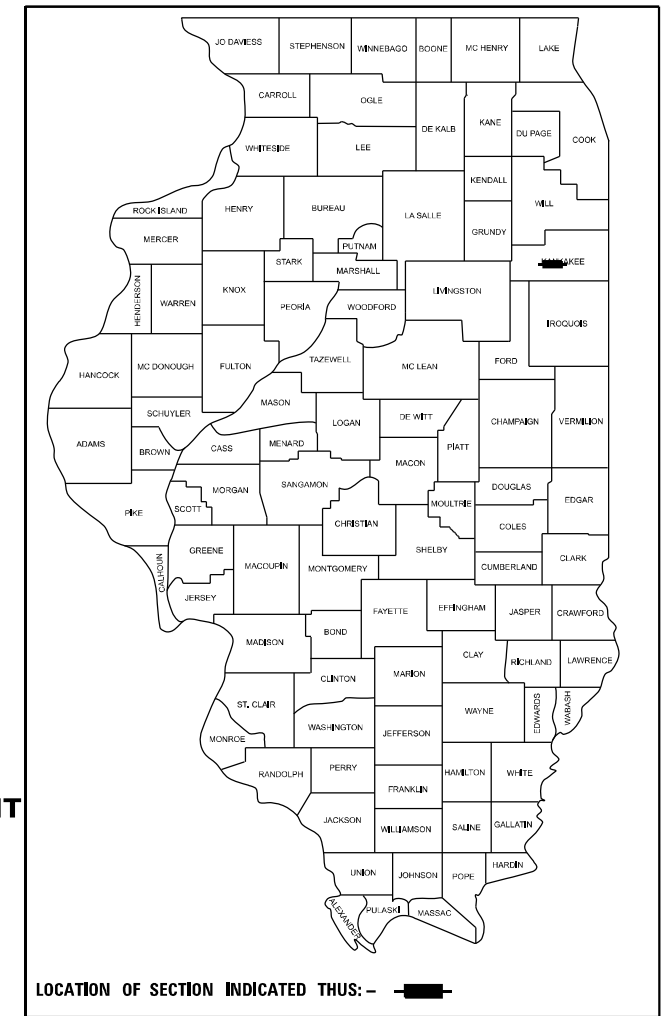
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**PROPOSED  
HIGHWAY PLANS**

**FAP ROUTE 41 (IL 17)  
SECTION (13)BR-2  
PROJECT STP-W9VF(435)  
BRIDGE REPLACEMENT  
KANKAKEE COUNTY  
C-93-074-23**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	1
		ILLINOIS	CONTRACT NO. 66L10	

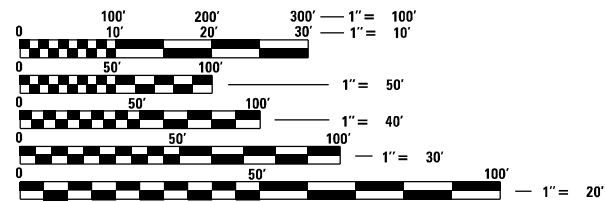
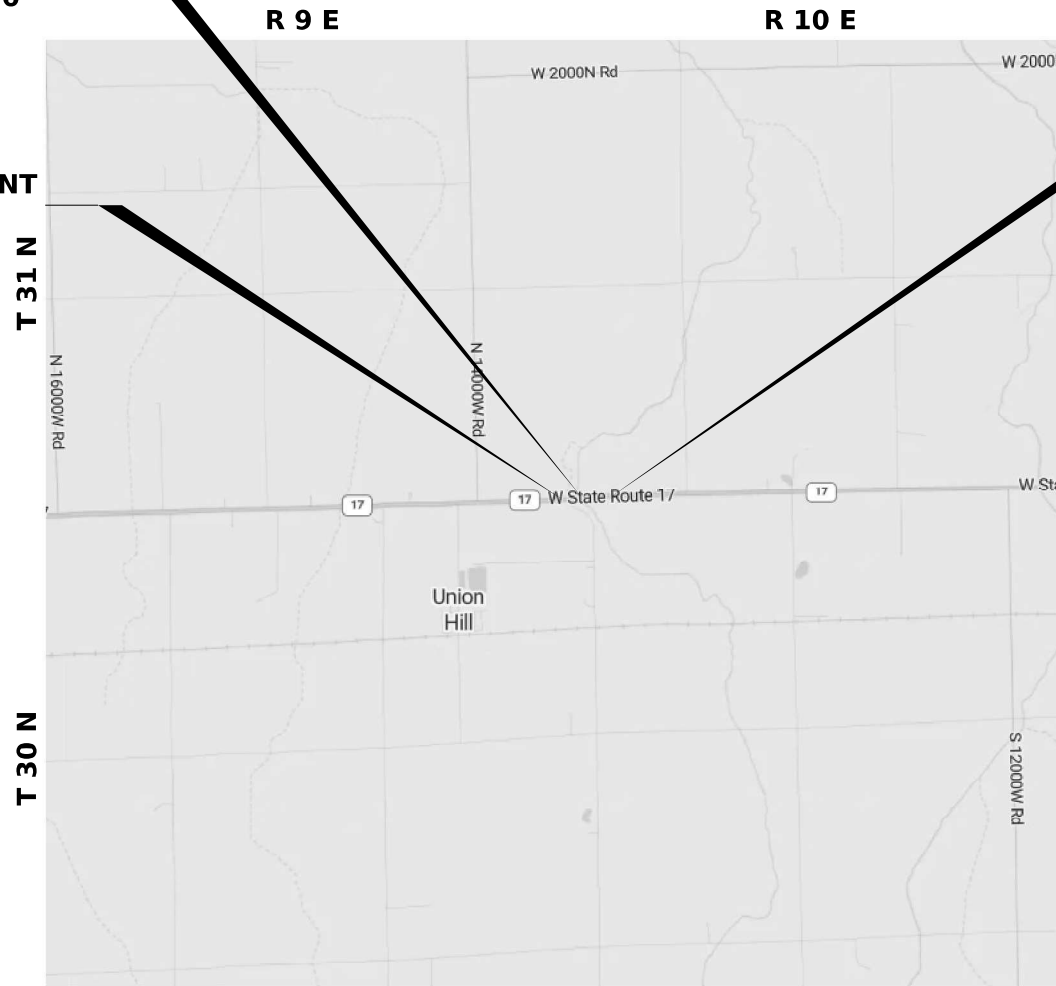
P-93-021-08



**EXISTING S.N. 046-0031  
STA 849+99.00  
PROPOSED S.N. 046-0162  
STA 849+99.00**

**BEGIN IMPROVEMENT  
STA 846+50.00**

**END IMPROVEMENT  
STA 853+50.00**



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.

**J.U.L.I.E.  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION  
1-800-892-0123  
OR 811**

**DISTRICT 3 NO. (815) 434-6131  
PROJECT ENGINEER – JOSEPH KANNEL, P.E.  
UNIT CHIEF – DARCY MITCHELL  
CONTRACT NO. 66L10**

GROSS LENGTH = 700 FT. = 0.133 MILE  
NET LENGTH = 700 FT. = 0.133 MILE



SIGNATURE: *[Signature]*  
DATE SIGNED: 03/25/2024

LICENSE EXPIRATION DATE: 11/30/2025  
WIGHT AND COMPANY

**FUNCTIONAL CLASSIFICATION  
MINOR ARTERIAL (RURAL)  
F.A.P. ROUTE 41 (IL 17)  
2023 ADT = 2575  
P.V.=82.0% S.U.=6.0% M.U.=12.0%**

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 26, 2024  
*Trisha Thompson* REGIONAL ENGINEER

May 10, 2024 *[Signature]*  
ENGINEER OF DESIGN AND ENVIRONMENT

May 10, 2024 *[Signature]*  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

**PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS**

**GENERAL NOTES:**

(1) THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.

(2) EXCEPT AS NOTED ON THE PLANS, PAVEMENT GRADES SHOWN ARE AT THE TOP OF THE PAVEMENT SURFACES.

(3) FOR STABILIZATION, ALL TYPE III BARRICADES WILL REQUIRE A MINIMUM OF FOUR SAND BAGS PER BARRICADE.

(4) THE FINISHED EARTHWORK SHALL HAVE A VEGETATION SUSTAINING SOIL COVERING THE TOP FOUR INCHES IN AREAS TO BE SEEDED OR SODDED. THE VEGETATION SUSTAINING SOIL REQUIRED WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF FURNISHED EXCAVATION.

(5) ALL ELEVATIONS REFERRING TO U.S.G.S. MEAN SEA LEVEL DATUM.

(6) ABANDONED UNDERGROUND UTILITIES THAT CONFLICT WITH CONSTRUCTION SHALL BE DISPOSED OF OUTSIDE THE LIMITS OF THE RIGHT OF WAY ACCORDING TO ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS AND AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE COST OF EARTH EXCAVATION.

**COMMITMENTS:**

(1) TREES THREE INCHES OR GREATER IN DIAMETER AT BREAST HEIGHT SHALL NOT BE CLEARED APRIL 1 THROUGH SEPTEMBER 30.

(2) PROTECTIVE FENCING SHALL BE PLACED FROM STATION 851+50 (69' RT) TO STATION 852+31 (37' RT) TO STATION 853+21 (49' RT) TO PROTECT THE WETLAND SITE #1 DURING CONSTRUCTION.

(3) CONSTRUCTION OPERATIONS SHALL NOT EXCEED 125' IN HEIGHT.

THE FOLLOWING RATES OF APPLICATION HAVE BEEN USED IN CALCULATING PLAN QUANTITIES:

GRANULAR MATERIALS	2.05	TONS / CU YD
HMA RESURFACING	112	LBS / SQ YD / IN
SHORT TERM PAVEMENT MARKING	10	FT / 100 FT OF APPLICATION

MEMBERS OF JULIE KNOWN TO BE WITHIN THE LIMITS OF THE IMPROVEMENT ARE:

- AT&T
- COMED
- NATURAL GAS PIPELINE CO (KINDER MORGAN)

THE CONTRACTOR SHALL CONTACT J.U.L.I.E. AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH UTILITIES ARE IN THE AREA.

**HIGHWAY STANDARDS**

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
482011-03	HMA SHOULDER STRIPS WITH RESURFACING OR WIDENING & RESURFACING PROJECTS
515001-04	NAME PLATE FOR BRIDGES
542001-06	CONCRETE END SECTIONS FOR PIPE CULVERTS 15"-84" DIAMETER
630001-13	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC-HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE I GUARDRAIL TERMINALS
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
642006-01	SHOULDER RUMBLE STRIPS 8"
701001-02	OFF-RD OPERATIONS 2L 2W MORE THAN 15FT
701006-05	OFF-RD OPERATIONS 2L 2W 15' TO 24" FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS 2L 2W DAY ONLY
701201-05	LANE CLOSURE, 2L 2W, DAY ONLY 45MPH OR MORE
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS DAY ONLY
701321-18	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING 45MPH OR MORE
701901-09	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

HMA MIXTURE REQUIREMENT TABLE

LOCATIONS:	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT	ENTIRE PROJECT
MIXTURE USE(S):	HMA	HMA	HMA	HMA SHOULDER 8"	HMA SHOULDER 8"
	BINDER	SURFACE	BASE COURSE	BOTTOM LIFT(S)	TOP LIFT
BINDER GRADE (PG):	PG 64-22	PG 64-22	PG 64-22	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N70	4.0% @ N70	4.0% @ N70	4.0% @ N50	4.0% @ N50
MIXTURE COMPOSITION: (MIXTURE GRADATION)	IL 19.0	IL 9.5	IL 19.0	IL 19.0	IL 9.5
FRICITION AGGREGATE:		MIXTURE C			
MIXTURE WEIGHT:	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN	112.0 LB/SY/IN
QUALITY MANAGEMENT PROGRAM:	QCQA	QCQA	QCQA	QCQA	QCQA
SUBLOT SIZE:	N/A	N/A	N/A	N/A	N/A
DENSITY TEST METHOD:	CORES/NUCLEAR	CORES/NUCLEAR	CORES/NUCLEAR	CORES/NUCLEAR	CORES/NUCLEAR
MATERIAL TRANSFER DEVICE (REQUIRED):	NO	NO	NO	NO	NO

MODEL: General Notes - General Notes (Sheet)  
FILE NAME: C:\AD\DOT\CAD\_CDD\_1\101020\Configuration\Workspaces\DOT\CAD\_CONNECT\Worksets\10254\DOT D3 Work Order 81CADD\_Data\Sheet01866\_10.dgn



USER NAME = tbarker	DESIGNED - TJB	REVISED -
	DRAWN - TJB	REVISED -
PLOT SCALE = 0.16666633' / in.	CHECKED - JNH	REVISED -
PLOT DATE = 3/19/2024	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES, HIGHWAY STANDARDS & COMMITMENTS**

SCALE: NTS SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	2
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				BRIDGE REPLACEMENT 0010 046-0162 (80% FED / 20% STATE)
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	55	55
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	47	47
20101000	TEMPORARY FENCE	FOOT	178	178
20101400	NITROGEN FERTILIZER NUTRIENT	POUND	100	100
20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	100	100
20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	100	100
20200100	EARTH EXCAVATION	CU YD	500	500
20400800	FURNISHED EXCAVATION	CU YD	285	285
20800150	TRENCH BACKFILL	CU YD	70	70
25000210	SEEDING, CLASS 2A	ACRE	1.25	1.25
25100630	EROSION CONTROL BLANKET	SQ YD	4470	4470
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	800	800
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	110	110
28000305	TEMPORARY DITCH CHECKS	FOOT	170	170

MODEL: Summary of Quantities - Summary of Quantities (Sheet)  
 FILE NAME: C:\CADD\DOTCAD\_0RD\_1\01\02\Computer\Workspaces\DOTCAD\_CONNECT\WorkSheet120254\DOT D3 Work Order 8\ICADD\_Data\Sheet01266\_1\3500.dgn



USER NAME = tbarker  
 PLOT SCALE = 0.16666633' / in.  
 PLOT DATE = 3/19/2024

DESIGNED - TJB  
 DRAWN - TJB  
 CHECKED - JNH  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**  
 SCALE: NTS    SHEET 1 OF 7 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	3
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				BRIDGE REPLACEMENT 0010 046-0162 (80% FED / 20% STATE)
28000400	PERIMETER EROSION BARRIER	FOOT	1710	1710
28000500	INLET AND PIPE PROTECTION	EACH	2	2
28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	4470	4470
28001200	TEMPORARY HEAVY DUTY EROSION CONTROL BLANKET	SQ YD	800	800
28100107	STONE RIPRAP, CLASS A4	SQ YD	937	937
28200200	FILTER FABRIC	SQ YD	883	883
40600370	LONGITUDINAL JOINT SEALANT	FOOT	510	510
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	50	50
40600990	TEMPORARY RAMP	SQ YD	246	246
40603085	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	TON	251	251
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	141	141
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	143	143
44000100	PAVEMENT REMOVAL	SQ YD	337	337
44000164	HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4"	SQ YD	1710	1710

MODEL: Summary of Quantities - Summary of Quantities - [Sheet]  
 FILE NAME: C:\CADD\DOTCADD\_CADD\_1\01\02\Computer\monitors\spaces\DOTCADD\_CONNECT\Work\121025\DOT D3\Work Order 8\CADD\_Data\Sheet01666\_1\03000.dgn



USER NAME = tbarker  
 PLOT SCALE = 0.16666633 1/In.  
 PLOT DATE = 3/19/2024

DESIGNED - TJB  
 DRAWN - TJB  
 CHECKED - JNH  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**  
 SCALE: NTS    SHEET 2 OF 7 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	4
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				BRIDGE REPLACEMENT 0010 046-0162 (80% FED / 20% STATE)
44004250	PAVED SHOULDER REMOVAL	SQ YD	455	455
44201670	CLASS D PATCHES, TYPE I, 2 INCH	SQ YD	5	5
44201713	CLASS D PATCHES, TYPE I, 6 INCH	SQ YD	12	12
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	52	52
48203029	HOT-MIX ASPHALT SHOULDERS, 8"	SQ YD	630	630
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
50105220	PIPE CULVERT REMOVAL	FOOT	100	100
50200100	STRUCTURE EXCAVATION	CU YD	359	359
50300225	CONCRETE STRUCTURES	CU YD	70.7	70.7
50300255	CONCRETE SUPERSTRUCTURE	CU YD	178.6	178.6
50300260	BRIDGE DECK GROOVING	SQ YD	599	599
50300300	PROTECTIVE COAT	SQ YD	751	751
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	106.9	106.9
50401310	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BEAMS, IL 36	FOOT	583.5	583.5

MODEL: Summary of Quantities - Summary of Quantities-2 (Sheet)  
 FILE NAME: C:\CADD\DOT\CAD\_CADD\DOT\DOT D3\Work Order 8\CADD\_Data\Sheet01666\_1\3500.dgn



USER NAME = tbarker  
 PLOT SCALE = 0.16666633' / in.  
 PLOT DATE = 3/19/2024

DESIGNED - TJB  
 DRAWN - TJB  
 CHECKED - JNH  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**  
 SCALE: NTS    SHEET 3 OF 7 SHEETS    STA.    TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	5
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				

MODEL: Summary of Quantities - Summary of Quantities (Sheet) [Sheet]  
 FILE NAME: C:\CADD\DOT\CAD\_CADD\DOT\DOT D3\Work Order 8\ICADD\_Data\Sheet01666\_1\45000.dgn

				CONSTRUCTION CODE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE REPLACEMENT 0010 046-0162 (80% FED / 20% STATE)
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	83050	83050
50800515	BAR SPLICERS	EACH	598	598
51201800	FURNISHING STEEL PILES HP14X73	FOOT	500	500
51202305	DRIVING PILES	FOOT	500	500
51203800	TEST PILE STEEL HP14X73	EACH	2	2
51204650	PILE SHOES	EACH	12	12
51500100	NAME PLATES	EACH	1	1
52200010	TEMPORARY SHEET PILING	SQ FT	561	561
542D1081	PIPE CULVERTS, CLASS D, TYPE 2 36"	FOOT	102	102
54261636	CONCRETE END SECTION, STANDARD 542001, 36", 1:6	EACH	2	2
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	104	104
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	56	56
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	141	141
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	63	63

\*= SPECIALTY ITEM



USER NAME = tbarker  
 PLOT SCALE = 0.16666633 1/ in.  
 PLOT DATE = 3/19/2024

DESIGNED - TJB  
 DRAWN - TJB  
 CHECKED - JNH  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS SHEET 4 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	6
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				

MODEL: Summary of Quantities - Summary of Quantities.dwg  
 FILE NAME: C:\CADD\DOTCADD\_CADD\_1\01\02\Computer\monitors\spaces\DOTCADD\_CONNECT\Work\121025\DOT D3\Work Order 61CADD\_Data\Sheet01666\_1\3500.dgn

				CONSTRUCTION CODE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE REPLACEMENT 0010 046-0162 (80% FED / 20% STATE)	
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4	
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4	
63200310	GUARDRAIL REMOVAL	FOOT	657	657	
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	1419	1419	
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12	
67100100	MOBILIZATION	L SUM	1	1	
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1	
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1	
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1	
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6	
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1630	1630	
70307120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE	FOOT	1400	1400	
70307130	TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE IV TAPE	FOOT	700	700	

\* = SPECIALTY ITEM



USER NAME = tbarker  
 PLOT SCALE = 0.16666633 1/In.  
 PLOT DATE = 3/19/2024

DESIGNED - TJB  
 DRAWN - TJB  
 CHECKED - JNH  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS SHEET 5 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	7
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				

				CONSTRUCTION CODE	
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE REPLACEMENT 0010 046-0162 (80% FED / 20% STATE)	
70400100	TEMPORARY CONCRETE BARRIER	FOOT	462.5	462.5	
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	74	74	
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	350	350	
70600250	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
70600350	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE), TEST LEVEL 3	EACH	2	2	
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4	
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	3001	3001	
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	360	360	
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	18	18	
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	16	16	
* 78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	65	65	
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	18	18	
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	270	270	
X5080530	BAR TERMINATOR	EACH	432	432	

\*= SPECIALTY ITEM

MODEL: Summary of Quantities - Summary of Quantities.rvt  
 FILE NAME: C:\CADD\DOTCAD\_0RD\_1\01\02\Computer\monitors\spaces\DOTCAD\_CONNECT\Work\121025\DOT D3\Work Order 8\CADD\_Data\Sheet01666\_1\3500.dgn



USER NAME = tbarker  
 PLOT SCALE = 0.16666633 1/ in.  
 PLOT DATE = 3/19/2024

DESIGNED - TJB  
 DRAWN - TJB  
 CHECKED - JNH  
 DATE -

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES

SCALE: NTS SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	8
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				



MODEL: Summary of Quantities - Summary of Quantities.dwg  
 FILE NAME: C:\CADD\DOT\CAD\_0RD\_1\01\02\Computer\Workspaces\DOT\CAD\_CONNECT\Work\121025\DOT D3\Work Order 61CADD\_Data\Sheet01666\_1\3500.dgn

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE
				BRIDGE REPLACEMENT 0010 046-0162 (80% FED / 20% STATE)
X6350204	LINEAR DELINEATOR PANELS, 4 INCH	EACH	6	6
X6350206	LINEAR DELINEATOR PANELS, 6 INCH	EACH	74	74
Z0005216	HOT-MIX ASPHALT STABILIZATION 6" AT STEEL PLATE BEAM GUARD RAIL	SQ YD	170	170
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	42	42
Z0062456	TEMPORARY PAVEMENT	SQ YD	108	108

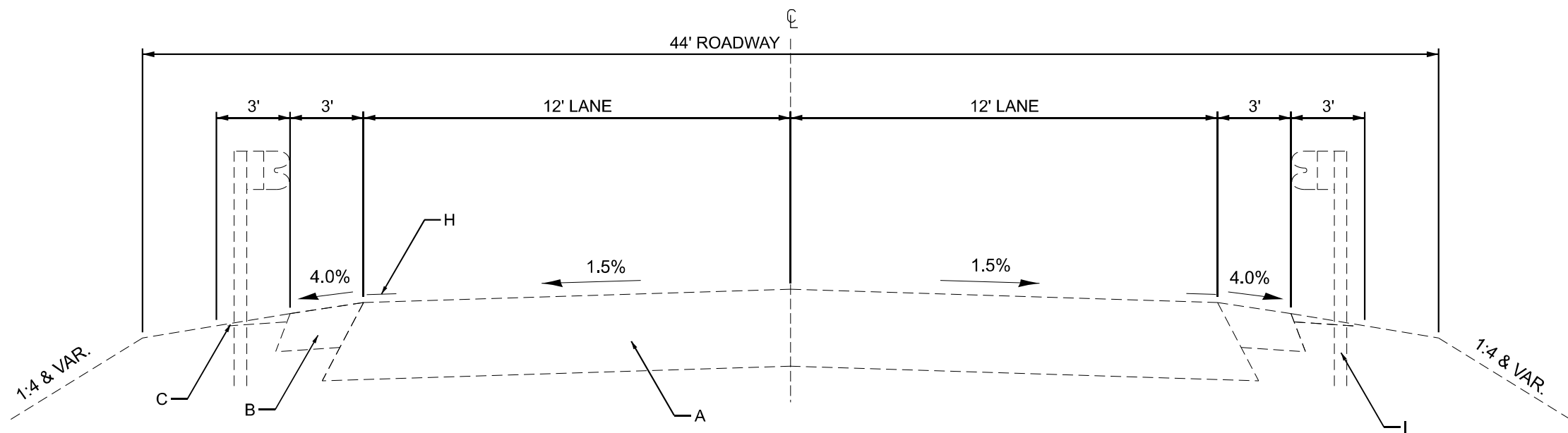


USER NAME = tbarker	DESIGNED -	REVISED -
PLOT SCALE = 0.16666633' / in.	DRAWN -	REVISED -
PLOT DATE = 3/26/2024	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>SUMMARY OF QUANTITIES</b>			
SCALE: NTS	SHEET 7	OF 7 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	9
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				

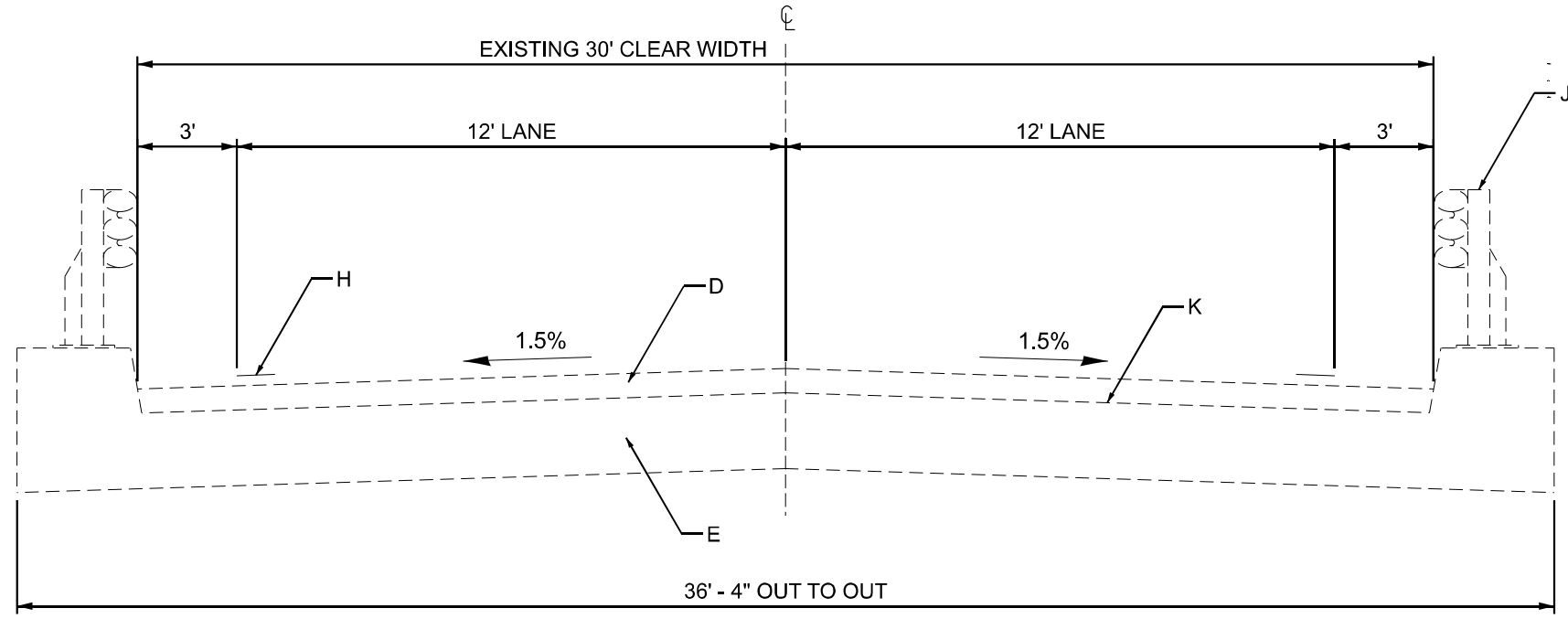


**IL 17 EXIST TYPICAL SECTION**

STA. 846+50.00 TO STA. 849+54.09  
 STA. 850+43.92 TO STA. 853+50.00

**LEGEND**

- A - EXISTING HMA PAVEMENT, 10"
- B - EXISTING HMA SHOULDERS W/ RUMBLE STRIPS (TYP.)
- C - EXISTING AGGREGATE SHOULDERS (TYP.)
- D - EXISTING HMA OVERLAY, 1 1/2"
- E - EXISTING BRIDGE SLAB, 12"
- F - EXISTING AGGREGATE ROADWAY
- G - EXISTING LOW TYPE BITUMINOUS SURFACE - CHIP SEAL
- H - EXISTING PAVEMENT MARKING - LINE 4" SOLID WHITE
- I - EXISTING GUARDRAIL
- J - EXISTING BEAM GUARDRAIL BOLTED TO 9" BRIDGE CURB (TYP.)
- K - EXISTING WATERPROOF MEMBRANE
- L - EXISTING HMA SHOULDER REMOVAL
- M - PROPOSED HMA SURFACE REMOVAL, 3 3/4"
- N - PROPOSED HMA SURFACE REMOVAL, 3 3/4" & VARIES
- O - PROPOSED HMA SURFACE COURSE, IL-9.5, MIX "C", N70, 1 1/2"
- P - PROPOSED HMA SURFACE COURSE, IL-9.5, MIX "C", N70, 1 1/2" & VARIES
- Q - PROPOSED HMA BINDER COURSE, IL-19.0, N70, 2 1/4"
- R - PROPOSED HMA BINDER COURSE, IL-19.0, N70, 2 1/4" & VARIES
- S - PROPOSED HMA SHOULDERS, 8"
- T - PROPOSED HMA SHOULDERS W/ RUMBLE STRIP, 8" (TYP.)
- U - PROPOSED HMA STABILIZATION, 6"
- V - PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- W - LONGITUDINAL JOINT SEALANT
- X - MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- Y - SPBGR, TYPE A, 6' POSTS



**SN 046-0031 EXIST TYPICAL SECTION**

STA. 849+54.09 TO STA. 850+43.92

MODEL: Typical Sections - Typical Sections (Sheet)  
 FILE NAME: C:\CADD\DOT\CAD\_CADD\101020 Configuration\Workspaces\DOT\CAD\_CONNECT\Work\849+54.09 TO 850+43.92\046-0031.dgn

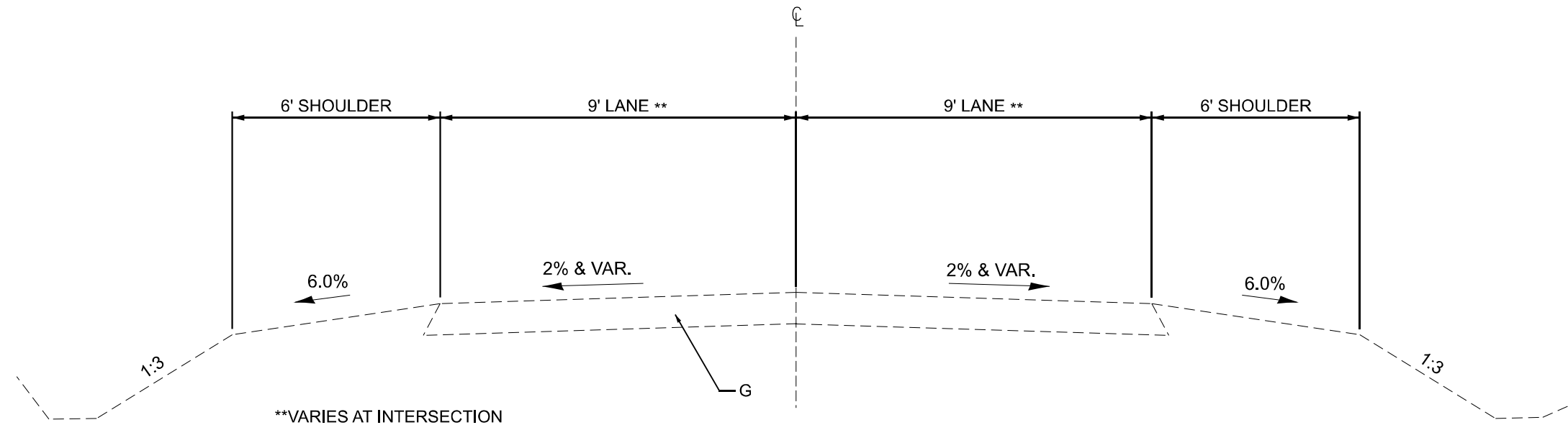


USER NAME = tbarker	DESIGNED - TJB	REVISED -
PLOT SCALE = 0.16666633' / in.	DRAWN - TJB	REVISED -
PLOT DATE = 3/19/2024	CHECKED - JNH	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS</b>			
<b>IL 17 OVER HORSE CREEK</b>			
SCALE: NTS	SHEET 1	OF 4 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	10
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				



**TR 32 (S1400W RD.) EXIST TYPICAL SECTION**  
 STA. 0+00.00 TO STA. 0+91.66

**LEGEND**

- A - EXISTING HMA PAVEMENT, 10"
- B - EXISTING HMA SHOULDERS W/ RUMBLE STRIPS (TYP.)
- C - EXISTING AGGREGATE SHOULDERS (TYP.)
- D - EXISTING HMA OVERLAY, 1 1/2"
- E - EXISTING BRIDGE SLAB, 12"
- F - EXISTING AGGREGATE ROADWAY
- G - EXISTING LOW TYPE BITUMINOUS SURFACE - CHIP SEAL
- H - EXISTING PAVEMENT MARKING - LINE 4" SOLID WHITE
- I - EXISTING GUARDRAIL
- J - EXISTING BEAM GUARDRAIL BOLTED TO 9" BRIDGE CURB (TYP.)
- K - EXISTING WATERPROOF MEMBRANE
- L - EXISTING HMA SHOULDER REMOVAL
- M - PROPOSED HMA SURFACE REMOVAL, 3 3/4"
- N - PROPOSED HMA SURFACE REMOVAL, 3 3/4" & VARIES
- O - PROPOSED HMA SURFACE COURSE, IL-9.5, MIX "C", N70, 1 1/2"
- P - PROPOSED HMA SURFACE COURSE, IL-9.5, MIX "C", N70, 1 1/2" & VARIES
- Q - PROPOSED HMA BINDER COURSE, IL-19.0, N70, 2 1/4"
- R - PROPOSED HMA BINDER COURSE, IL-19.0, N70, 2 1/4" & VARIES
- S - PROPOSED HMA SHOULDERS, 8"
- T - PROPOSED HMA SHOULDERS W/ RUMBLE STRIP, 8" (TYP.)
- U - PROPOSED HMA STABILIZATION, 6"
- V - PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- W - LONGITUDINAL JOINT SEALANT
- X - MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- Y - SPBGR, TYPE A, 6' POSTS

MODEL: Typical Sections - Typical Sections.dwg  
 FILE NAME: C:\CADD\DOT\CAD\DOT\CAD\CONNECT\Workspaces\DOT\CAD\CONNECT\Workspaces\DOT 03 Work Order 8\ICADD\_Data\Sheet0366.dwg



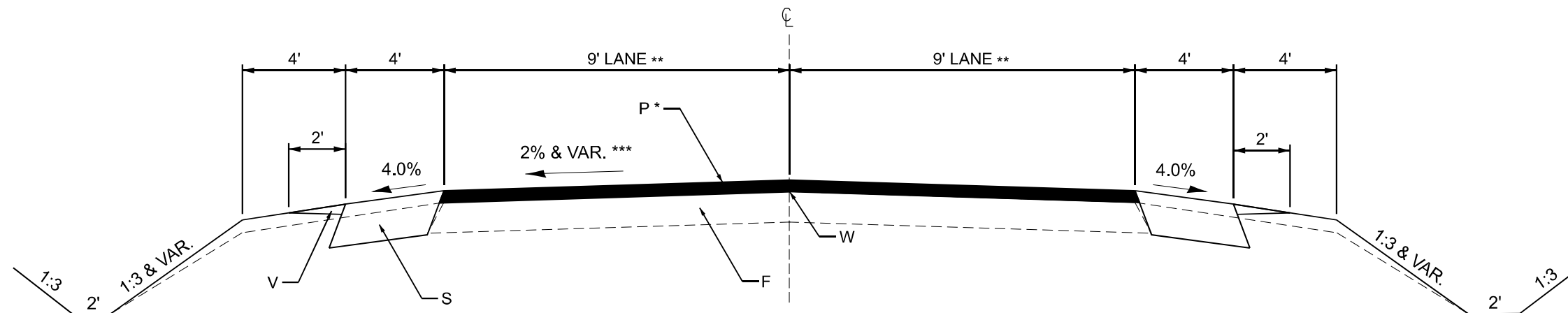
USER NAME = tbarker	DESIGNED - TJB	REVISED -
PLOT SCALE = 0.16666633' / in.	DRAWN - TJB	REVISED -
PLOT DATE = 3/19/2024	CHECKED - JNH	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>TYPICAL SECTIONS    IL 17 OVER HORSE CREEK</b>			
SCALE: NTS	SHEET 2	OF 4 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	11
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				





\* VARIES FROM 2 3/4" TO 1 1/2"  
 FROM STA. 0.00+00 TO STA. 0+47.62  
 \*\* VARIES AT INTERSECTION  
 \*\*\* MATCH INTO EXISTING  
 TRANSITION TO 6% S.E.  
 AT PROJECT LIMITS

### TR 32 (S1400W RD.) PROP TYPICAL SECTION

STA. 0+00.00 TO STA. 0+91.66

#### LEGEND

- A - EXISTING HMA PAVEMENT, 10"
- B - EXISTING HMA SHOULDERS W/ RUMBLE STRIPS (TYP.)
- C - EXISTING AGGREGATE SHOULDERS (TYP.)
- D - EXISTING HMA OVERLAY, 1 1/2"
- E - EXISTING BRIDGE SLAB, 12"
- F - EXISTING AGGREGATE ROADWAY
- G - EXISTING LOW TYPE BITUMINOUS SURFACE - CHIP SEAL
- H - EXISTING PAVEMENT MARKING - LINE 4" SOLID WHITE
- I - EXISTING GUARDRAIL
- J - EXISTING BEAM GUARDRAIL BOLTED TO 9" BRIDGE CURB (TYP.)
- K - EXISTING WATERPROOF MEMBRANE
- L - EXISTING HMA SHOULDER REMOVAL
- M - PROPOSED HMA SURFACE REMOVAL, 3 3/4"
- N - PROPOSED HMA SURFACE REMOVAL, 3 3/4" & VARIES
- O - PROPOSED HMA SURFACE COURSE, IL-9.5, MIX "C", N70, 1 1/2"
- P - PROPOSED HMA SURFACE COURSE, IL-9.5, MIX "C", N70, 1 1/2" & VARIES
- Q - PROPOSED HMA BINDER COURSE, IL-19.0, N70, 2 1/4"
- R - PROPOSED HMA BINDER COURSE, IL-19.0, N70, 2 1/4" & VARIES
- S - PROPOSED HMA SHOULDERS, 8"
- T - PROPOSED HMA SHOULDERS W/ RUMBLE STRIP, 8" (TYP.)
- U - PROPOSED HMA STABILIZATION, 6"
- V - PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- W - LONGITUDINAL JOINT SEALANT
- X - MODIFIED URETHANE PAVEMENT MARKING - LINE 4"
- Y - SPBGR, TYPE A, 6' POSTS

MODEL: Typical Sections - Typical Sections 9 (Sheet)  
 FILE NAME: C:\CADD\DOT\CAD\_CADD\1101025\Comp\pav\WorkSpace\DOT\CAD\_CONNECT\Work\Sta121025a\DOT D3 Work Order 81CADD\_Data\Sheet01025a.dwg



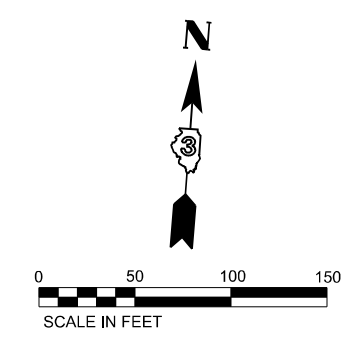
USER NAME = tbarker	DESIGNED - TJB	REVISED -
	DRAWN - TJB	REVISED -
PLOT SCALE = 0.16666633' / in.	CHECKED - JNH	REVISED -
PLOT DATE = 3/19/2024	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

<b>TYPICAL SECTIONS</b>			
<b>IL 17 OVER HORSE CREEK</b>			
SCALE: NTS	SHEET 4	OF 4 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	13
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				





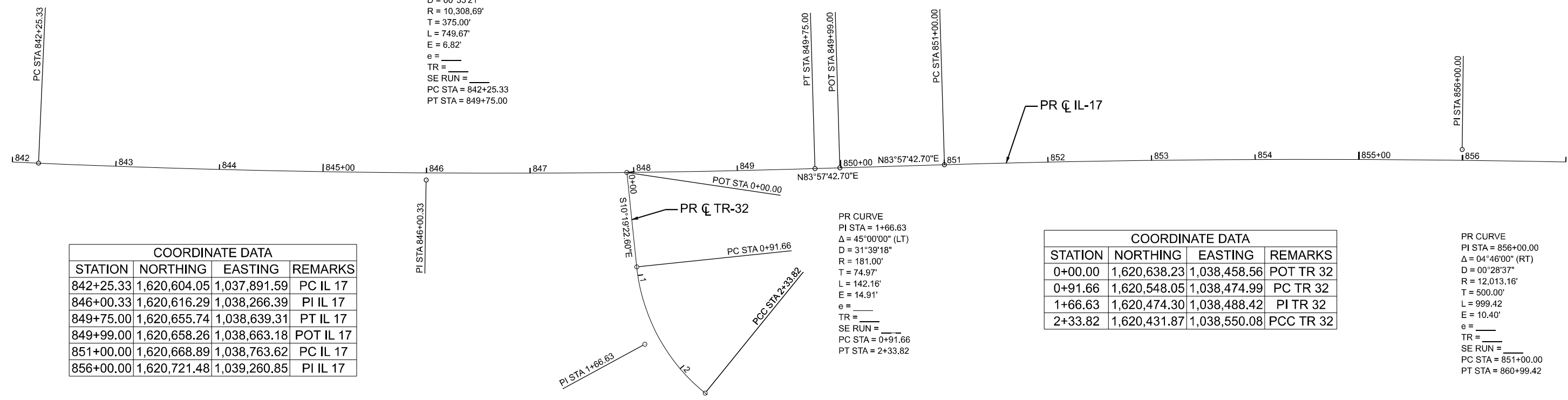
PR CURVE  
 PI STA = 846+00.33  
 $\Delta = 04^{\circ}10'00''$  (LT)  
 $D = 00^{\circ}33'21''$   
 $R = 10,308.69'$   
 $T = 375.00'$   
 $L = 749.67'$   
 $E = 6.82'$   
 $e =$   
 $TR =$   
 $SE RUN =$   
 PC STA = 842+25.33  
 PT STA = 849+75.00

PR CURVE  
 PI STA = 1+66.63  
 $\Delta = 45^{\circ}00'00''$  (LT)  
 $D = 31^{\circ}39'18''$   
 $R = 181.00'$   
 $T = 74.97'$   
 $L = 142.16'$   
 $E = 14.91'$   
 $e =$   
 $TR =$   
 $SE RUN =$   
 PC STA = 0+91.66  
 PT STA = 2+33.82

PR CURVE  
 PI STA = 856+00.00  
 $\Delta = 04^{\circ}46'00''$  (RT)  
 $D = 00^{\circ}28'37''$   
 $R = 12,013.16'$   
 $T = 500.00'$   
 $L = 999.42'$   
 $E = 10.40'$   
 $e =$   
 $TR =$   
 $SE RUN =$   
 PC STA = 851+00.00  
 PT STA = 860+99.42

COORDINATE DATA			
STATION	NORTHING	EASTING	REMARKS
842+25.33	1,620,604.05	1,037,891.59	PC IL 17
846+00.33	1,620,616.29	1,038,266.39	PI IL 17
849+75.00	1,620,655.74	1,038,639.31	PT IL 17
849+99.00	1,620,658.26	1,038,663.18	POT IL 17
851+00.00	1,620,668.89	1,038,763.62	PC IL 17
856+00.00	1,620,721.48	1,039,260.85	PI IL 17

COORDINATE DATA			
STATION	NORTHING	EASTING	REMARKS
0+00.00	1,620,638.23	1,038,458.56	POT TR 32
0+91.66	1,620,548.05	1,038,474.99	PC TR 32
1+66.63	1,620,474.30	1,038,488.42	PI TR 32
2+33.82	1,620,431.87	1,038,550.08	PCC TR 32



MODEL: ATB (Rbark) FILE NAME: C:\D:\DOT\CAD\_OBDD\_1\010202\Configuration\WorkSpace\DOT\CAD\_CONNECT\WorkSpace\1025\DOT 03 Work Order 816\CADD Data\Sheet\0661\c41TB.dgn

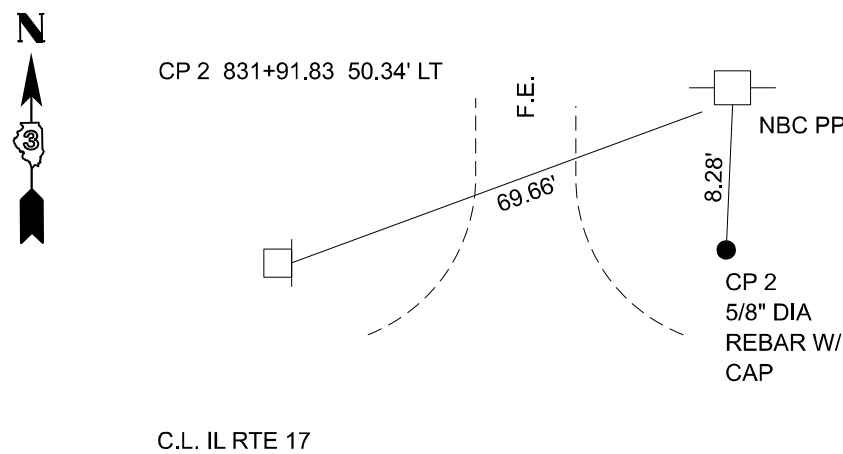
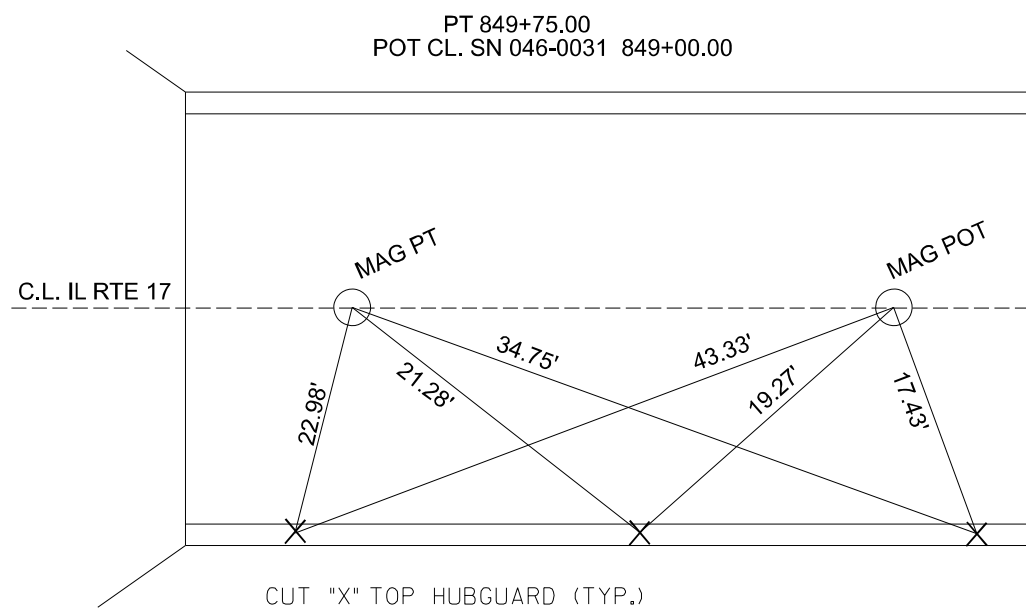
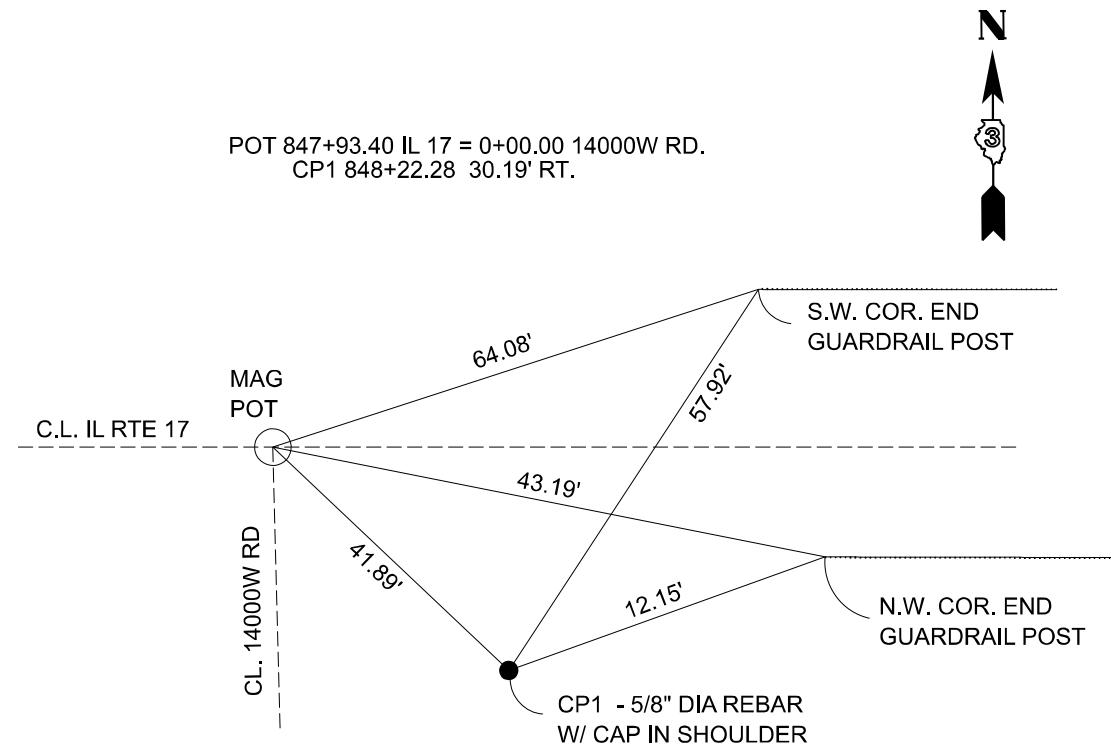
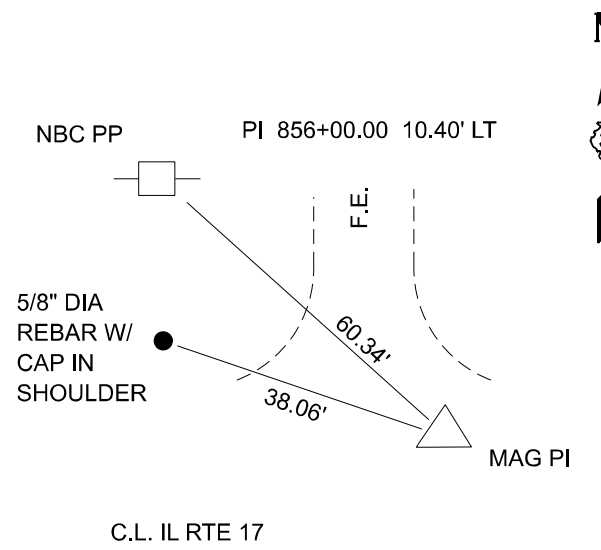
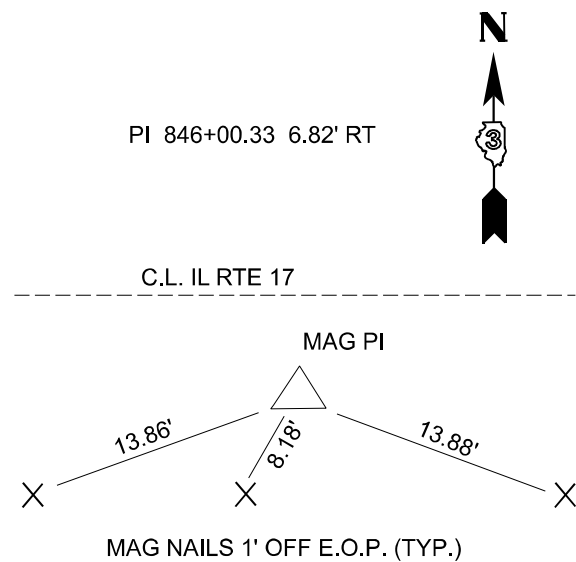


USER NAME = tbarker	DESIGNED - TJB	REVISED -
PLOT SCALE = 0.16666633' / in.	DRAWN - TJB	REVISED -
PLOT DATE = 3/19/2024	CHECKED - JNH	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

ALIGNMENT, TIES, AND BENCHMARKS	
SCALE: 1"=50'	SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE. 41	SECTION (13)BR-2	COUNTY KANKAKEE	TOTAL SHEETS 79	SHEET NO. 15
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				



B.M. 1 CUT "□" TOP OF SW WINGWALL SN 053-0097, STA 950+58.03, 20.25' RT ELEV 713.40

MODEL: Title - Ties (Sheet)  
 FILE NAME: C:\CADD\DOT\CAD\CONNECTION\Workspaces\DOT\CAD\CONNECTION\Workspaces\DOT D3\Work Order 81C\DOT Data\Sheet01666\_1\4-18.dgn



USER NAME = tbarker	DESIGNED - TJB	REVISED -
	DRAWN - TJB	REVISED -
PLOT SCALE = 0.16666833' / in.	CHECKED - JNH	REVISED -
PLOT DATE = 3/19/2024	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

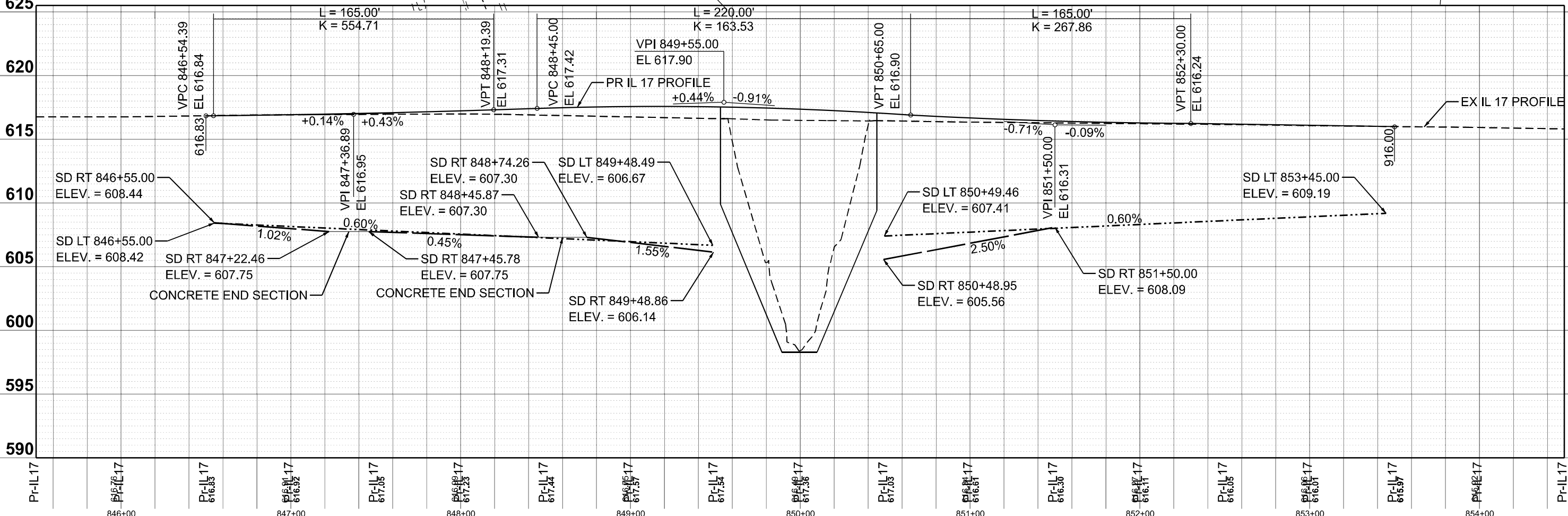
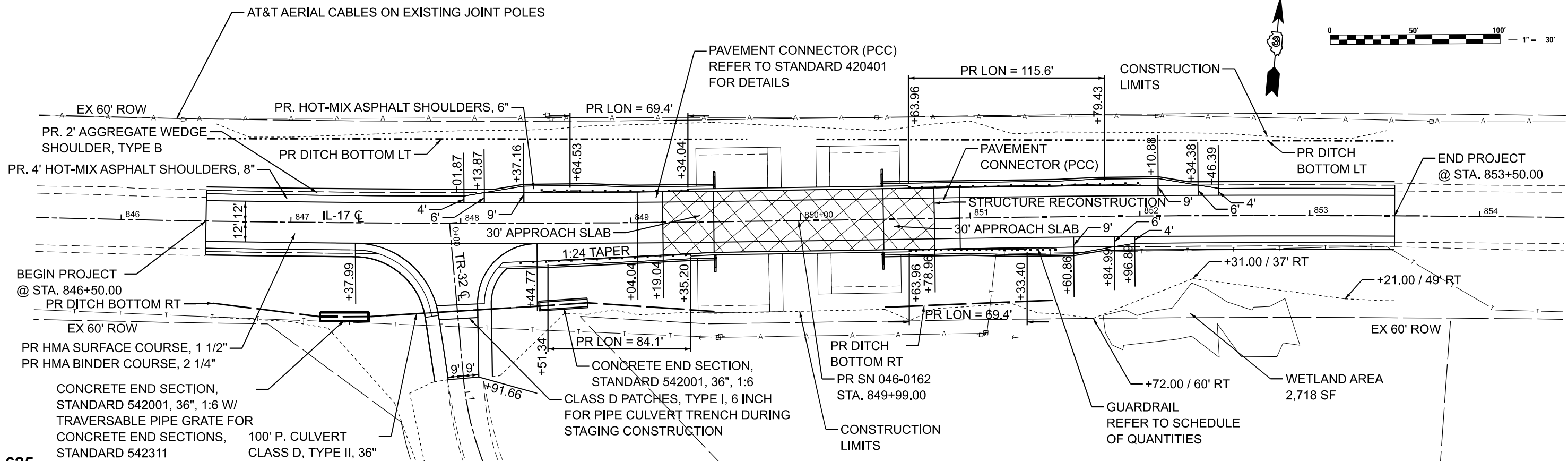
ALIGNMENTS, TIES, AND BENCHMARKS

SCALE: NTS SHEET 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	16
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				







MODEL: Plan IL-17 Plan\_Sheet (Sheet 18)  
 FILE NAME: C:\CADD\DOT\3D\_CADD\CONNECT\WorkSpace\DOT\CAD\CONNECT\WorkSpace\1025a\DOT 3D\Work Order 616000 Data\Sheet18.dwg



USER NAME = tbarker	DESIGNED - TJB	REVISED -
PLOT SCALE = 0.16666633' / in.	DRAWN - TJB	REVISED -
PLOT DATE = 3/19/2024	CHECKED - JNH	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

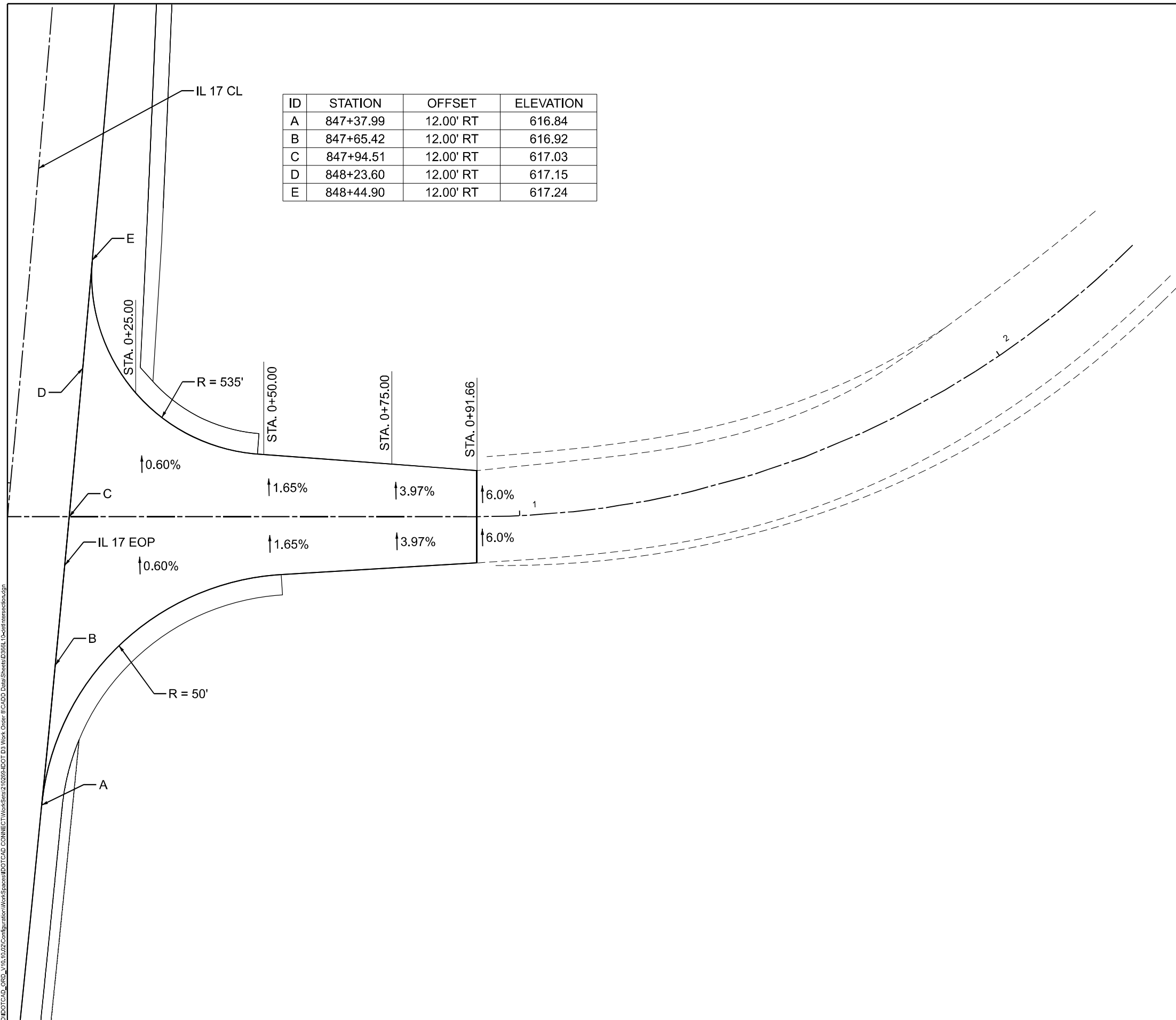
SCALE: 1"=30'		SHEET 1 OF 2 SHEETS		STA.	TO STA.
---------------	--	---------------------	--	------	---------

**PLAN AND PROFILE**  
**IL 17 OVER HORSE CREEK**

F.A.P. RTE. 41	SECTION (13)BR-2	COUNTY KANKAKEE	TOTAL SHEETS 79	SHEET NO. 18
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				



ID	STATION	OFFSET	ELEVATION
A	847+37.99	12.00' RT	616.84
B	847+65.42	12.00' RT	616.92
C	847+94.51	12.00' RT	617.03
D	848+23.60	12.00' RT	617.15
E	848+44.90	12.00' RT	617.24



MODEL: Intersection Details - Intersection Details (Sheet)  
 FILE NAME: C:\CADD\DOT\CAD\_0RD\_1\011025\Computation\Workspaces\DOT\CAD\_CONNECT\WorkStation12025\DOT D3\Work Order 8\ICADD\_Data\Sheet\01666\IC-add\intersection.dgn



USER NAME = tbarker	DESIGNED - TJB	REVISED -
PLOT SCALE = 0.16666833' / in.	DRAWN - TJB	REVISED -
PLOT DATE = 3/19/2024	CHECKED - JNH	REVISED -
	DATE -	REVISED -

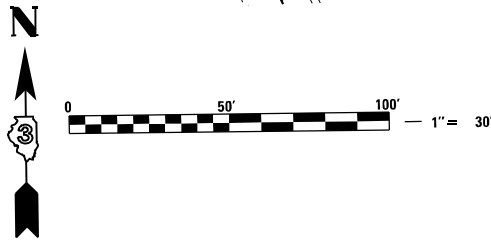
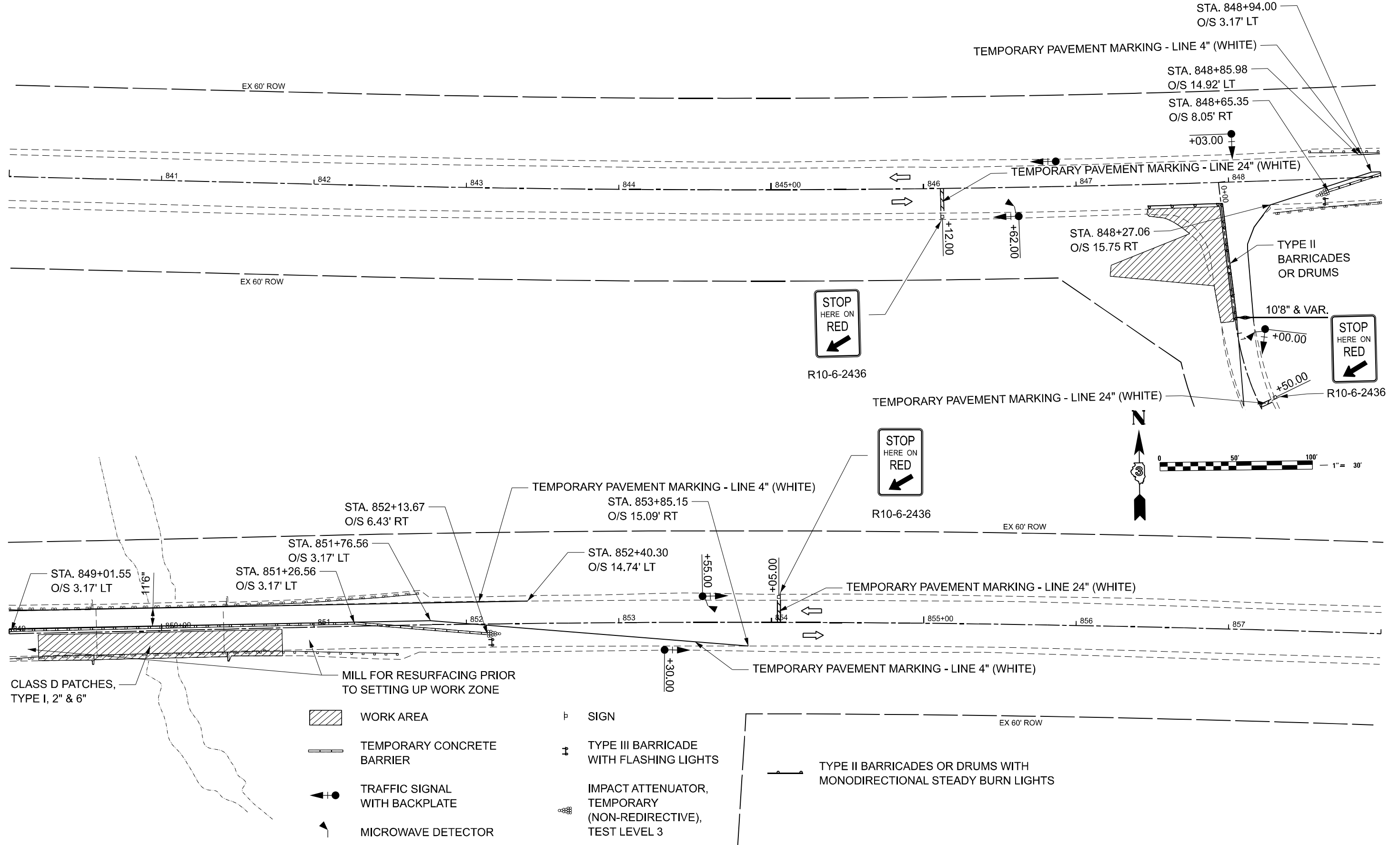
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

<b>INTERSECTION DETAILS</b>			
<b>IL 17 &amp; S1400W RD. (TR 32)</b>			
SCALE: 1"=10"	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	20
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				



MODEL: MOT Stage 1 - NOT Stage 1 (Sheet)  
 FILE NAME: G:\CADD\DOT\303\_000\_1\031028\Configuration\WorkSpace\DOT\CAD\CONNECT\WorkSpace\21028\DOT\_03\_1\Work Order 81CADD\_DrainSheetID266\_L03.dwg



- WORK AREA
- TEMPORARY CONCRETE BARRIER
- TRAFFIC SIGNAL WITH BACKPLATE
- MICROWAVE DETECTOR
- SIGN
- TYPE III BARRICADE WITH FLASHING LIGHTS
- IMPACT ATTENUATOR, TEMPORARY (NON-REDIRECTIVE), TEST LEVEL 3
- TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS



USER NAME = tbarker	DESIGNED - TJB	REVISED -
DRAWN - TJB	REVISED -	
PLOT SCALE = 0.16666633' / in.	CHECKED - JNH	REVISED -
PLOT DATE = 3/19/2024	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>MAINTENANCE OF TRAFFIC    STAGE I</b>	
SCALE: 1"=30'	SHEET 2 OF 4 SHEETS
STA.	TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	22
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				



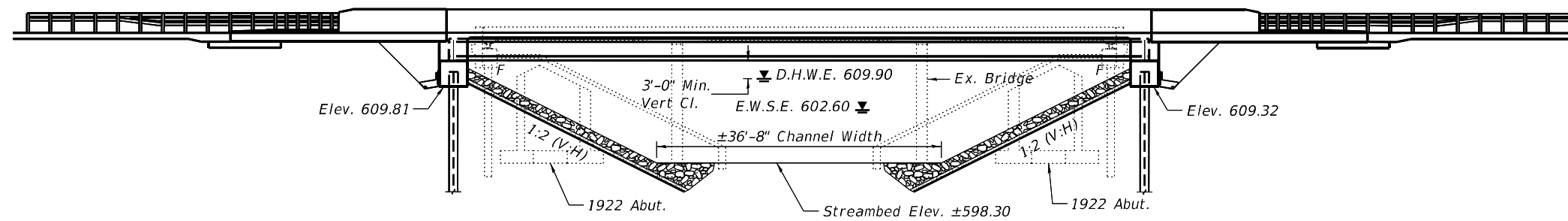




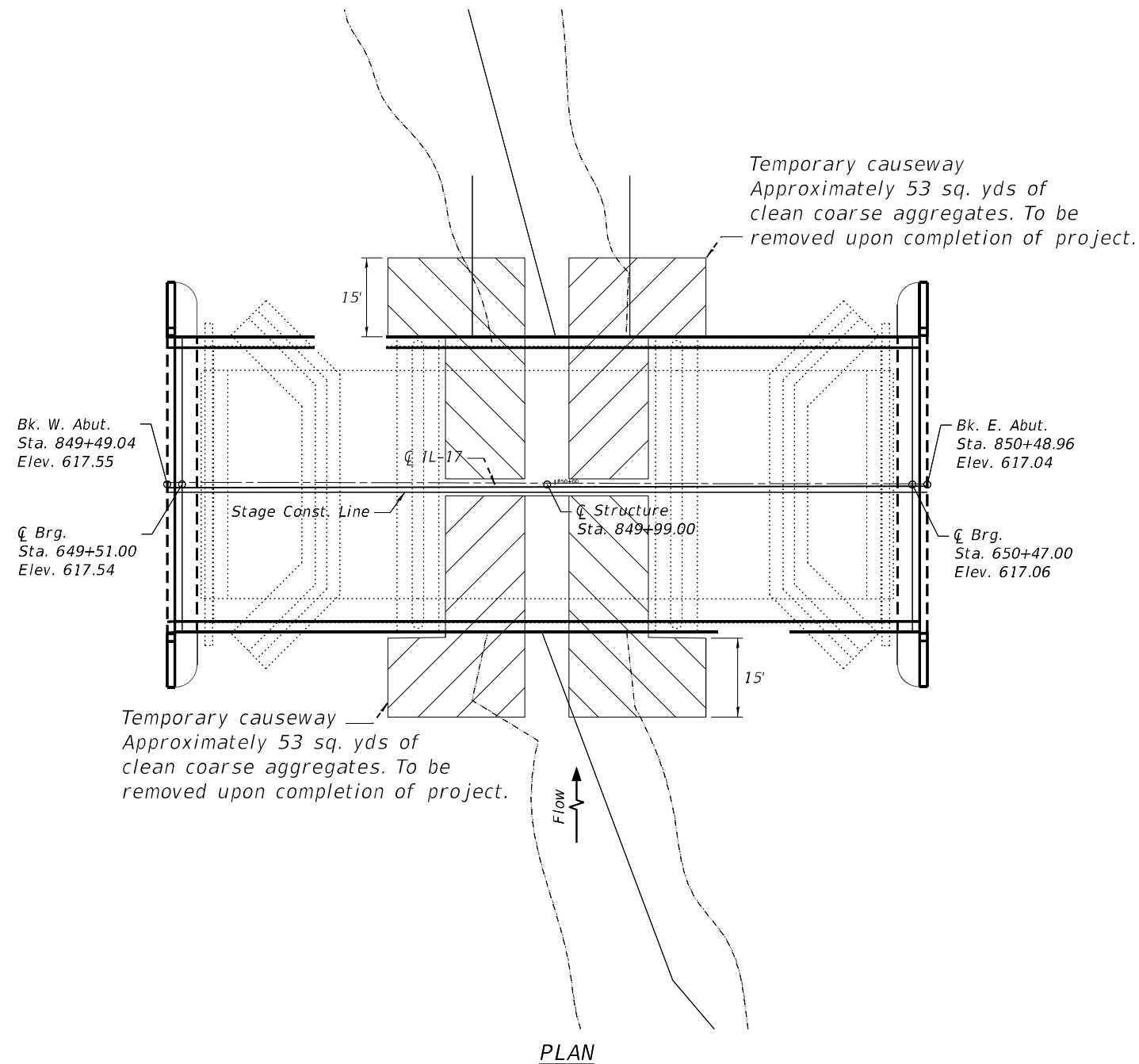
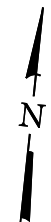
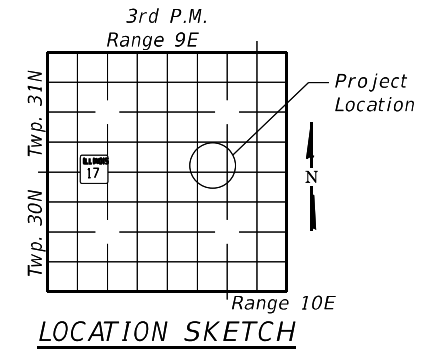




# Exhibit



**ELEVATION**



**PLAN**

**GENERAL PLAN AND ELEVATION**  
**IL ROUTE 17 OVER HORSE CREEK**  
**FAP ROUTE 41 - SECTION (13)BR-2**  
**KANKAKEE COUNTY**  
**STATION 849+99.00**  
**EXISTING STRUCTURE NUMBER 046-0031**  
**PROPOSED STRUCTURE NUMBER 046-0162**

Not to Scale

USER NAME = 0460162-66L10-001-GPE.dgn	DESIGNED - CHECKED -	REVISED - REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>CAUSEWAY / WORKPAD DRAWING</b>	F.A.P. RTE. 41	SECTION (13)BR-2	COUNTY KANKAKEE	TOTAL SHEETS 79	SHEET NO. 27	
PLOT SCALE =	DRAWN -	REVISED -			CONTRACT NO. 66L10					
PLOT DATE =	CHECKED -	REVISED -			ILLINOIS FED. AID PROJECT					

Bench Mark: Benchmark: Cut '□' on SW Wing of SN 046-0031. Sta. 849+54.98, Offset 19.23' Rt., Elev. 617.04.

Existing Structure: SN 046-0031 Built in 1959 as S.B.I. Route 17, Section 13-BR at Sta. 849+99. Existing structure consists of 3-Span continuous cast in place reinforced concrete slab superstructure and supported by stub concrete abutments and solid wall concrete piers. Structure is 90'-0" long Bk. to Bk. abutments and 36'-4" Out to Out deck. Structure to be removed and replaced. Traffic to be maintained utilizing stage construction.

No Salvage

**INDEX OF SHEETS**

1. General Plan and Elevation
2. General Data
3. Stage Construction Details
4. Temporary Concrete Barrier
- 5-6. Top of Slab Elevations
7. Top of West Approach Slab Elevations
8. Top of East Approach Slab Elevations
9. Superstructure
10. Superstructure Details
11. Diaphragm Details
- 12-13. West Bridge Approach Slab Details
- 14-15. East Bridge Approach Slab Details
16. Framing Plan
17. IL36 Beam
18. IL36 Beam Details
19. West Abutment
20. East Abutment
21. HP Pile Details
22. Concrete Parapet Slipforming Option
23. Bar Splicer Details
- 24-25. Boring Logs

**LOADING HL-93**

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

**DESIGN SPECIFICATIONS**

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

**DESIGN STRESSES**

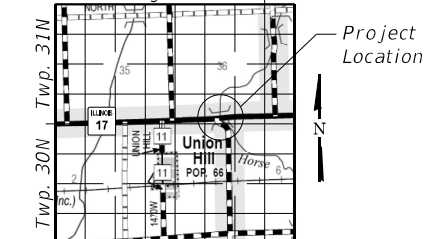
**FIELD UNITS**

$f'_c = 4,000$  psi (Superstructure)  
 $f'_c = 3,500$  psi (Substructure)  
 $f_y = 60,000$  psi (Reinforcement)  
 $f_y = 50,000$  psi (M270 Grade 50)

**PRECAST PRESTRESSED UNITS**

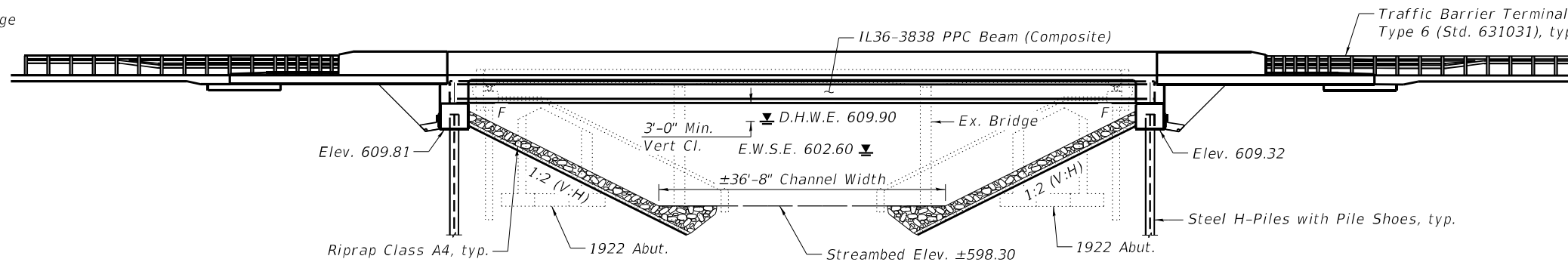
$f'_c = 8,500$  psi  
 $f'_ci = 6,500$  psi  
 $f_{pu} = 270,000$  psi (0.6"Ø low lax. strands)  
 $f_{pbt} = 202,300$  psi (0.6"Ø low lax. strands)

3rd P.M.  
Range 9E

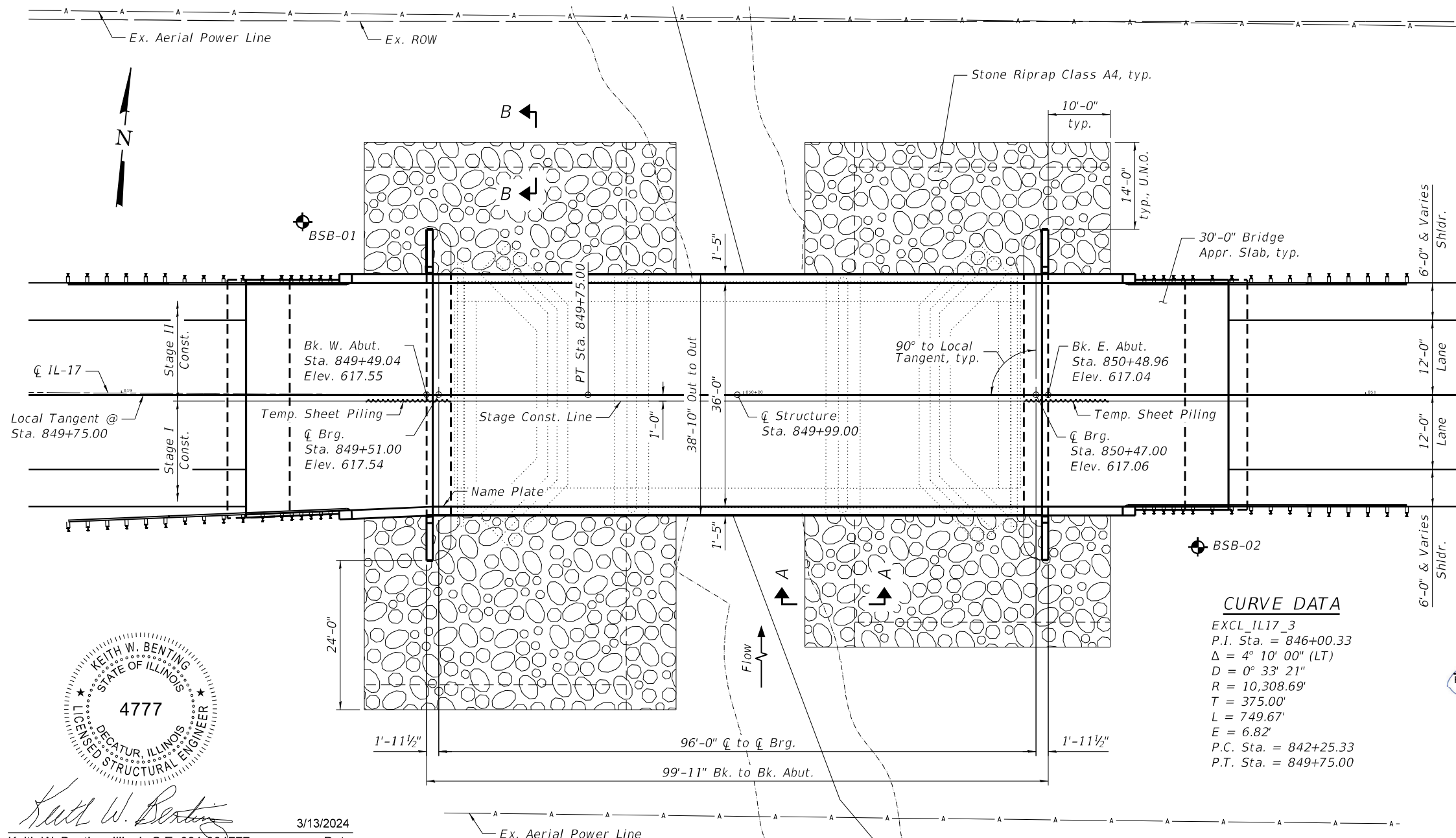


**LOCATION SKETCH**

**GENERAL PLAN AND ELEVATION  
 IL ROUTE 17 OVER HORSE CREEK  
 FAP ROUTE 41 - SECTION (13)BR-2  
 KANKAKEE COUNTY  
 STATION 849+99.00  
 STRUCTURE NUMBER 046-0162**



**ELEVATION**



**PLAN**

**CURVE DATA**

EXCL\_IL17\_3  
 P.I. Sta. = 846+00.33  
 $\Delta = 4^\circ 10' 00''$  (LT)  
 $D = 0^\circ 33' 21''$   
 $R = 10,308.69'$   
 $T = 375.00'$   
 $L = 749.67'$   
 $E = 6.82'$   
 P.C. Sta. = 842+25.33  
 P.T. Sta. = 849+75.00

**APPROVED**  
 For Structural Adequacy Only  
 Keith W. Benting  
 Engineer of Bridges & Structures

Note:  
See Sheet 2 of 25 for Sections A-A and B-B.



Keith W. Benting  
 Keith W. Benting, Illinois S.E. 081-004777  
 3/13/2024  
 Date Expires 11/30/2024

MODEL: Default  
 FILE NAME: \\bs01\Projects\2021\11\082 - PTB 201+27 D3-Vight-Variou (s)\I\WO #8 - 15P BR PH2 Design IL-17\CADD\CADD Sheets\0460162-66L10-001-GPE.dgn  
 3/13/2024 3:05:18 PM

	USER NAME = cstokes 0460162-66L10-001-GPE.dgn PLOT SCALE = PLOT DATE =	DESIGNED - CFS CHECKED - KWB DRAWN - CFS CHECKED - MDC	REVISED - REVISED - REVISED - REVISED -	<b>STATE OF ILLINOIS          DEPARTMENT OF TRANSPORTATION</b>	<b>GENERAL PLAN AND ELEVATION          STRUCTURE NO. 046-0162</b>	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	41	(13)BR-2	KANKAKEE			79	28			
						SHEET 1 OF 25 SHEETS ILLINOIS FED. AID PROJECT				

**GENERAL NOTES**

Reinforcement bars designated (E) shall be epoxy coated.

If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.

Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.

A pay item has been added to the Roadway Plans for "Class D Patches, Type I, 2 Inch" to be used at the discretion of the Engineer to maintain the existing deck riding surface during Stage I traffic. See Roadway Plans.

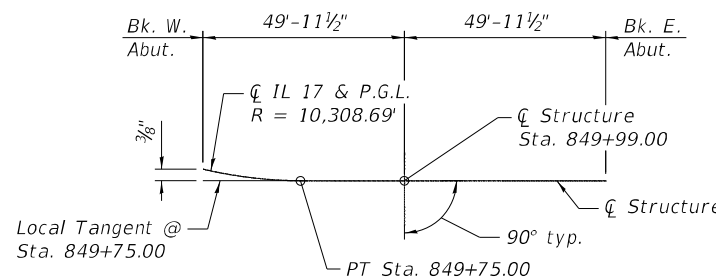
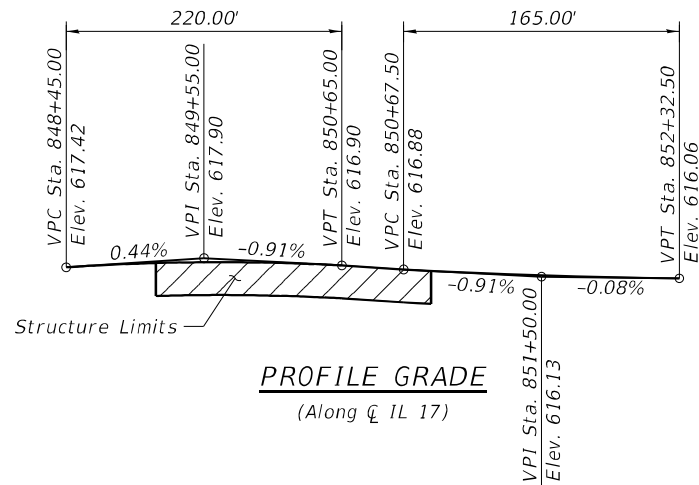
**WATERWAY INFORMATION**

		Existing Overtopping Elev. 616.49 @ Sta. 850+43				Proposed Overtopping Elev. 617.09 @ Sta. 850+44			
Drainage Area = 26.7 sq. mi.									
Flood	Freq. Yr.	Q C.F.S.	Opening Ft <sup>2</sup>		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
	10	1,230	269	439	608.3	0.0	0.0	608.3	608.3
Design	50	1,820	353	565	609.9	0.0	0.0	609.9	609.9
Base	100	2,090	376	608	610.3	0.2	0.1	610.5	610.4
Overtopping	200	2,350	394	633	610.6	0.3	0.2	610.9	610.8
Max. Calc.	500	2,700	413	659	610.9	0.4	0.3	611.3	611.2

10-Year Velocity through Existing Structure = 4.6 fps  
 10-Year Velocity through Proposed Structure = 2.8 fps

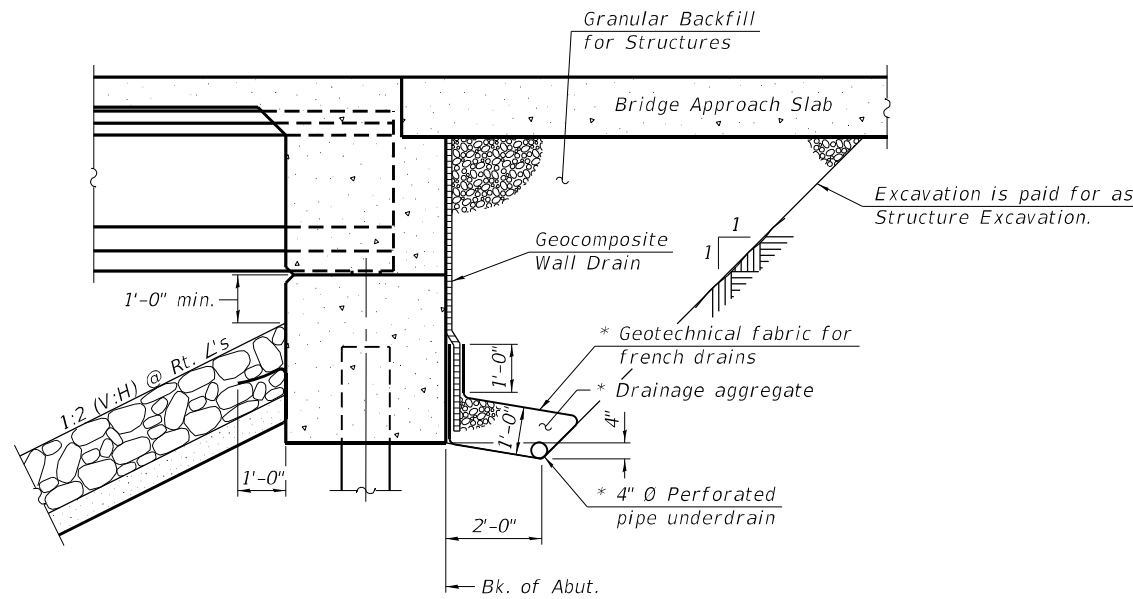
**TOTAL BILL OF MATERIAL**

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.		892	892
Filter Fabric	Sq. Yd.		838	838
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		359	359
Concrete Structures	Cu. Yd.		70.7	70.7
Concrete Superstructures	Cu. Yd.	178.6		178.6
Bridge Deck Grooving	Sq. Yd.		599	599
Protective Coat	Sq. Yd.		751	751
Concrete Superstructures (Approach Slab)	Cu. Yd.	106.9		106.9
Furnishing and Erecting Precast Prestressed Beams, IL36	Foot	583.5		583.5
Reinforcement Bars, Epoxy Coated	Pound	71,090	11,960	83,050
Bar Splicers	Each	498	100	598
Furnishing Steel Piles HP14x73	Foot		500	500
Driving Piles	Foot		500	500
Test Pile Steel HP14x73	Each		2	2
Pile Shoes	Each		12	12
Name Plate	Each	1		1
Temporary Sheet Piling	Sq. Ft.			561
Granular Backfill for Structures	Cu. Yd.		104	104
Geocomposite Wall Drain	Sq. Yd.		56	56
Pipe Underdrains for Structures 4"	Foot		141	141
Bar Terminators	Each	80	352	432



**DESIGN SCOUR ELEVATION TABLE**

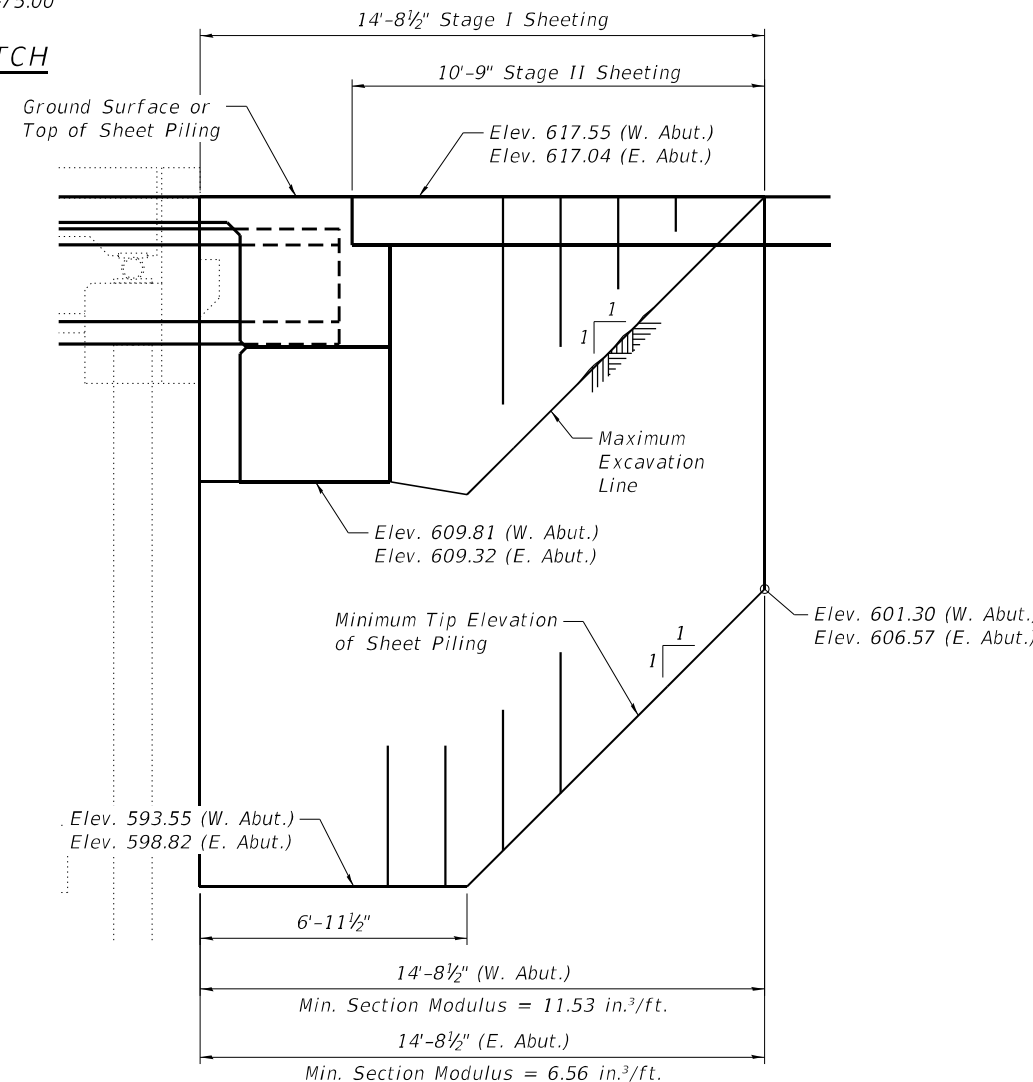
Event / Limit State	Design Scour Elevations (ft.)		Item 113
	W. Abut.	E. Abut.	
Q100	609.81	609.32	8
Q200	609.81	609.32	
Design	609.81	609.32	
Check	609.81	609.32	



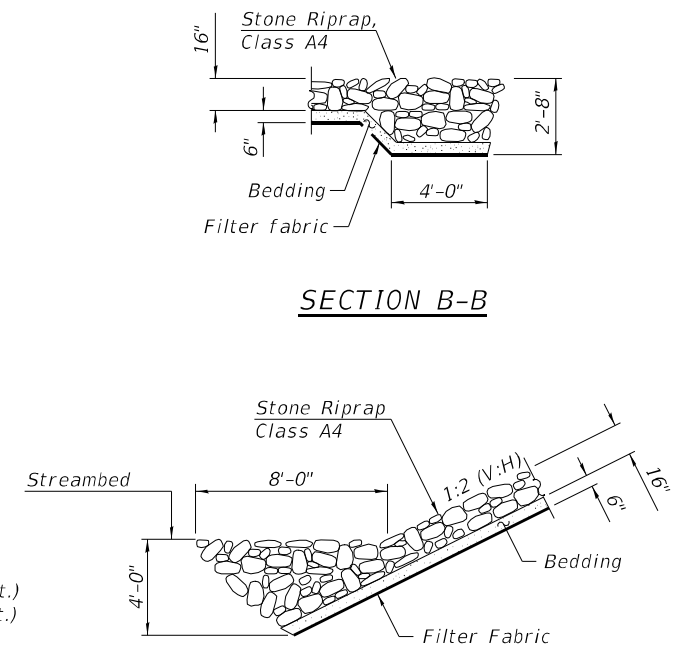
**SECTION THRU INTEGRAL ABUTMENT**  
(Horiz. dim. at Rt. L's)

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

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).



**TEMPORARY SHEET PILING**



STA. 849+99.00  
 BUILT 20 BY  
 STATE OF ILLINOIS  
 F.A.P. Rt. 41 Sec. (13)BR-2  
 LOADING HL-93  
 STR. NO. 046-0162

**NAME PLATE**  
 See Std. 515001

MODEL: Default  
 FILE NAME: \\bs01\Projects\2021\11\082 - PTB 201+27 D3-Vigh+Various I&I\W0 #8 - 15P BR PH2 Design IL-17\CADD\CADD Sheets\0460162-66L10-002-GD.dgn  
 3/13/2024 3:05:20 PM



USER NAME = cstokes	DESIGNED - CFS	REVISED -
0460162-66L10-002-GD.dgn	CHECKED - KWB	REVISED -
PLOT SCALE =	DRAWN - CFS	REVISED -
PLOT DATE =	CHECKED - MDC	REVISED -

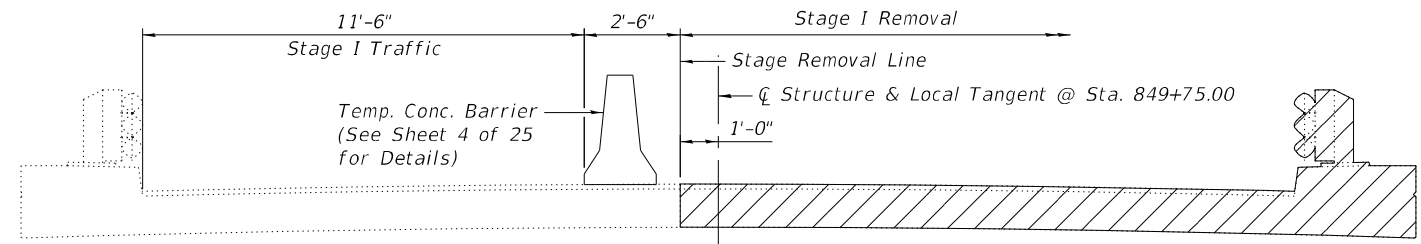
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

GENERAL DATA  
 STRUCTURE NO. 046-0162

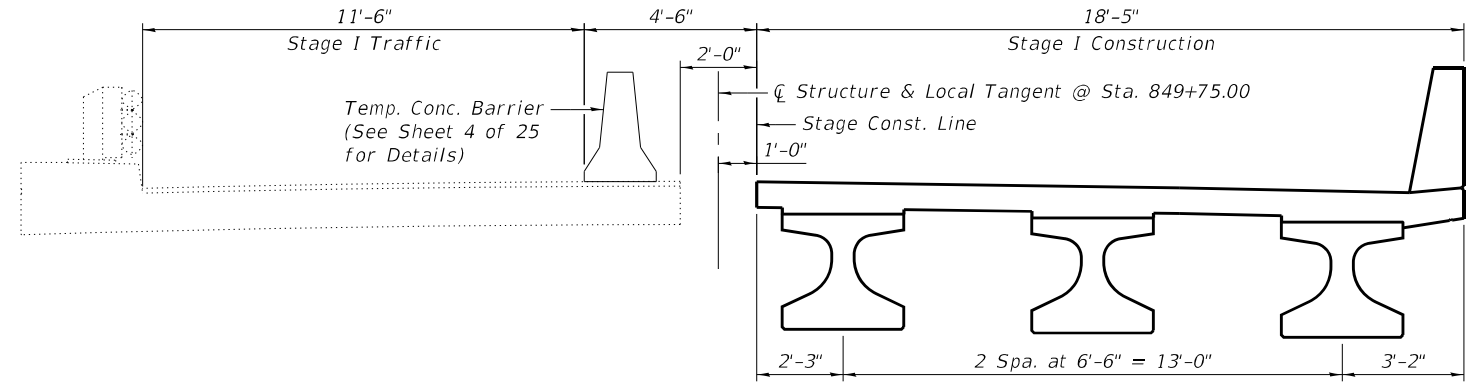
SHEET 2 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	29
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				

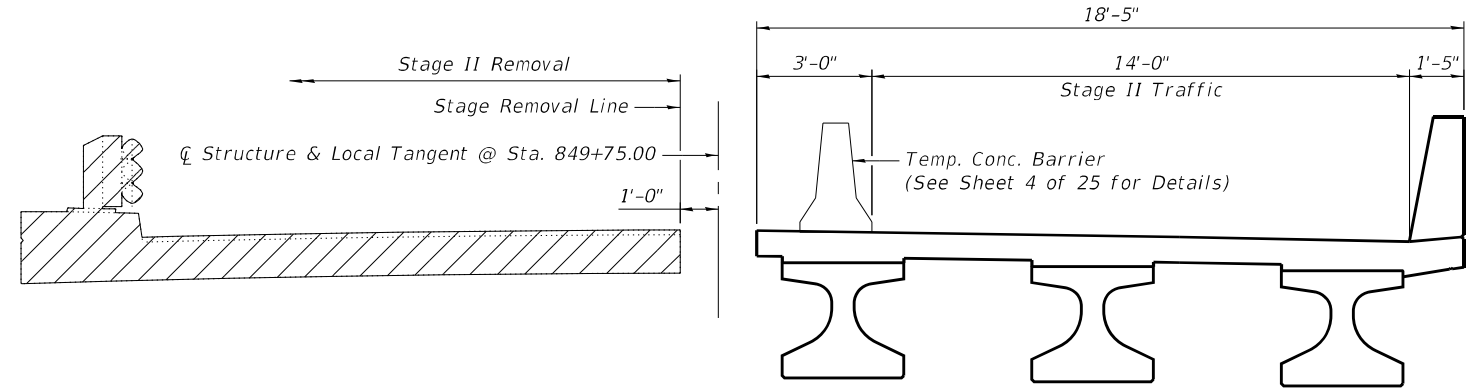
MODEL: Default  
 FILE NAME: \\bs01\Projects\2021\11\082 - PTB 201+27 D3-Wight-Variou IsllWVO #8 - 15P BR PH2 Design IL-17\CADD\CADD Sheets\0460162-66L10-003-Staging.dgn  
 3/13/2024 3:05:21 PM



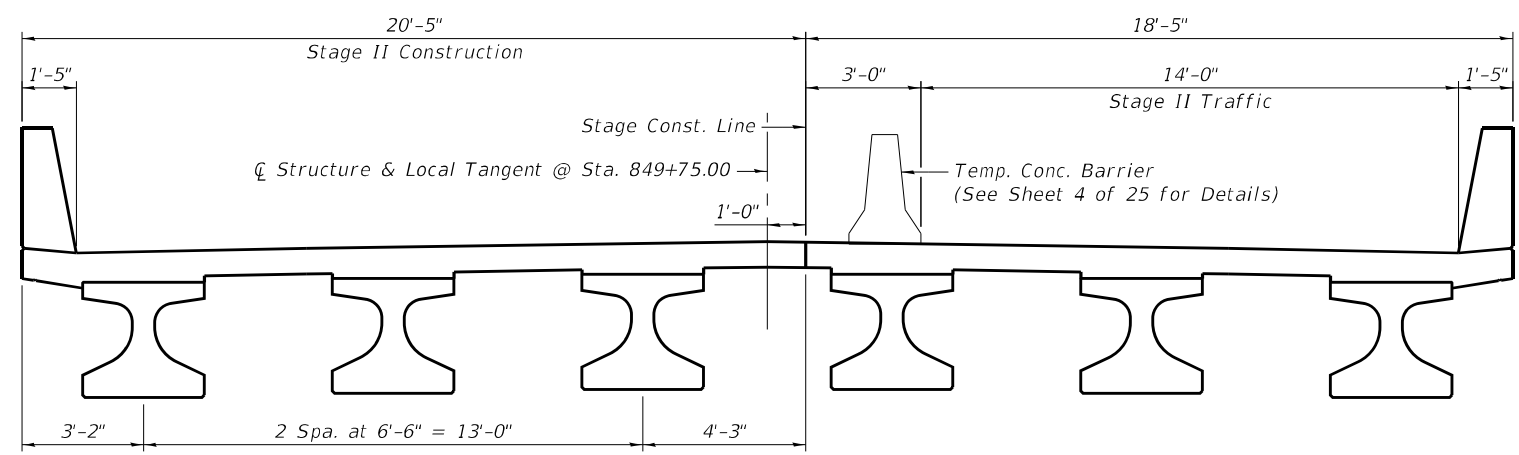
**STAGE I REMOVAL**  
 (Looking East)



**STAGE I CONSTRUCTION**  
 (Looking East)



**STAGE II REMOVAL**  
 (Looking East)



**STAGE II CONSTRUCTION**  
 (Looking East)

Notes:  
 For quantity of Temporary Concrete Barrier, see Roadway Plans.  
 Hatched areas indicate Removal of Existing Structures.



USER NAME = cstokes	DESIGNED - CFS	REVISED -
0460162-66L10-003-Staging.dgn	CHECKED - KWB	REVISED -
PLOT SCALE =	DRAWN - CFS	REVISED -
PLOT DATE =	CHECKED - MDC	REVISED -

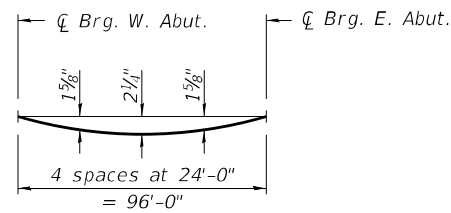
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS  
 STRUCTURE NO. 046-0162

SHEET 3 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	30
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				



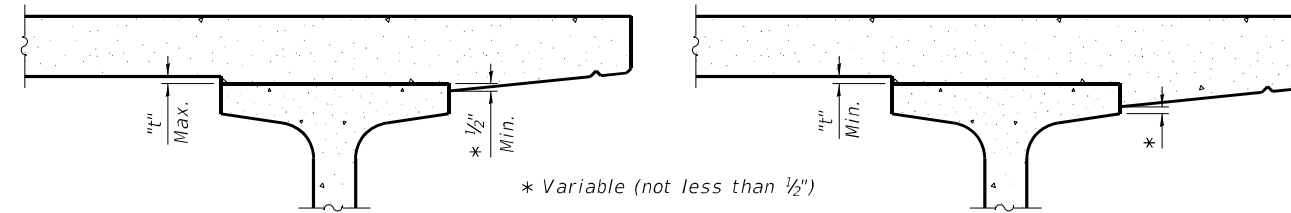


**DEAD LOAD DEFLECTION DIAGRAM**

(Includes weight of concrete only, excluding beams.)

Note:

The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown on Sheet 6 of 25.

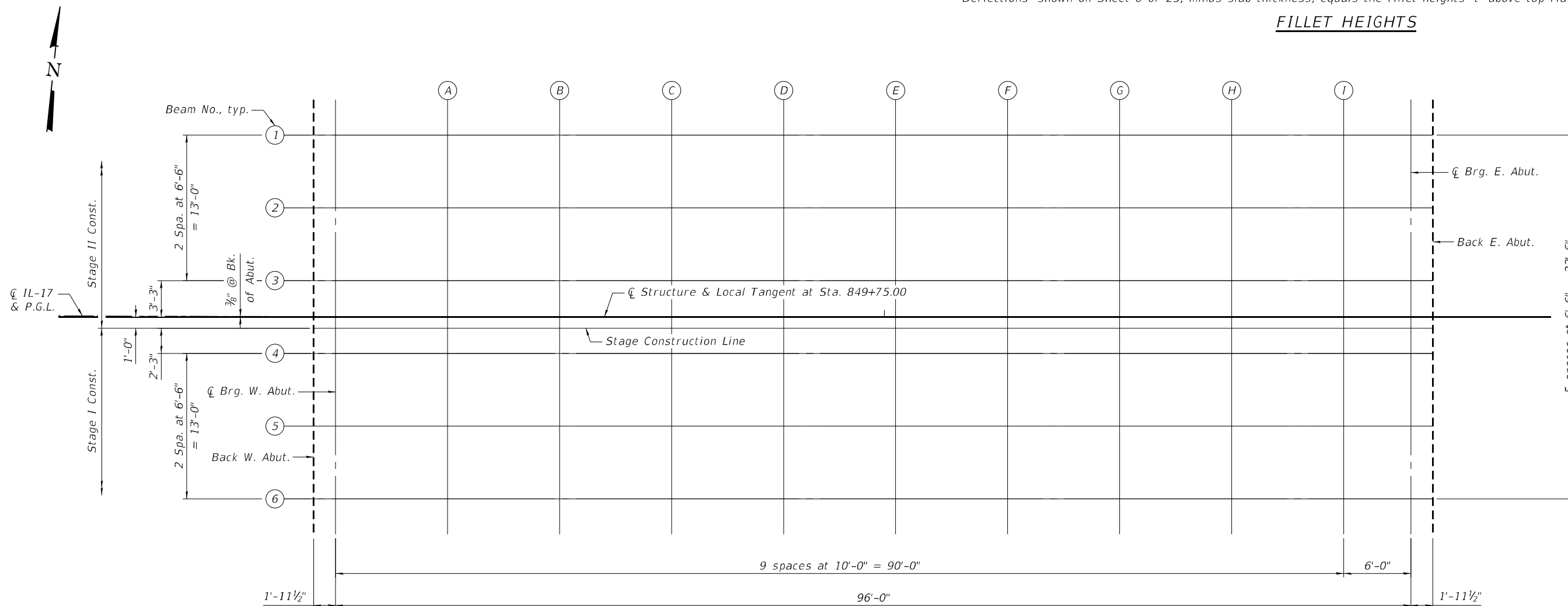


EXTERIOR BEAMS

INTERIOR BEAMS

To determine "t": After all precast prestressed beams have been erected, elevations of the top flanges of the beams shall be taken at intervals shown below. These elevations subtracted from the "Theoretical Grade Elevations Adjusted for Dead Load Deflections" shown on Sheet 6 of 25, minus slab thickness, equals the fillet heights "t" above top flanges of beams.

**FILLET HEIGHTS**



PLAN

MODEL: Default  
FILE NAME: \\bs01\Projects\2021\11L082 - PTB 201+27 D3-Vigh\Various Is\WVO #8 - 15P BR PH2 Design IL-17\CADD\CADD Sheets\0460162-66L10-005-TOS Elev.dgn  
3/13/2024 3:05:23 PM



USER NAME = cstokes	DESIGNED - CFS	REVISED -
0460162-66L10-005-TOS Elev.dgn	CHECKED - KWB	REVISED -
PLOT SCALE =	DRAWN - CFS	REVISED -
PLOT DATE =	CHECKED - MDC	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS  
STRUCTURE NO. 046-0162

SHEET 5 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	32
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				



**BEAM NO. 1**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	849+49.00	-16.22	617.28	617.28
☉ Brg. W. Abut.	849+50.96	-16.22	617.28	617.28
A	849+60.98	-16.24	617.25	617.31
B	849+70.99	-16.25	617.22	617.34
C	849+81.00	-16.25	617.19	617.34
D	849+91.00	-16.25	617.14	617.33
E	850+01.00	-16.25	617.09	617.28
F	850+11.00	-16.25	617.04	617.21
G	850+21.00	-16.25	616.98	617.12
H	850+31.00	-16.25	616.91	617.01
I	850+41.00	-16.25	616.84	616.87
☉ Brg. E. Abut.	850+47.00	-16.25	616.79	616.79
Bk. of E. Abut.	850+48.96	-16.25	616.78	616.78

**BEAM NO. 2**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	849+49.02	-9.72	617.40	617.40
☉ Brg. W. Abut.	849+50.98	-9.72	617.40	617.40
A	849+60.99	-9.74	617.37	617.43
B	849+71.00	-9.75	617.34	617.46
C	849+81.00	-9.75	617.30	617.46
D	849+91.00	-9.75	617.26	617.45
E	850+01.00	-9.75	617.21	617.40
F	850+11.00	-9.75	617.16	617.34
G	850+21.00	-9.75	617.10	617.24
H	850+31.00	-9.75	617.03	617.13
I	850+41.00	-9.75	616.96	616.99
☉ Brg. E. Abut.	850+47.00	-9.75	616.91	616.91
Bk. of E. Abut.	850+48.96	-9.75	616.89	616.89

**BEAM NO. 3**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	849+49.03	-3.22	617.50	617.50
☉ Brg. W. Abut.	849+50.99	-3.22	617.49	617.49
A	849+61.00	-3.24	617.47	617.53
B	849+71.00	-3.25	617.44	617.55
C	849+81.00	-3.25	617.40	617.56
D	849+91.00	-3.25	617.36	617.54
E	850+01.00	-3.25	617.31	617.50
F	850+11.00	-3.25	617.26	617.43
G	850+21.00	-3.25	617.20	617.34
H	850+31.00	-3.25	617.13	617.22
I	850+41.00	-3.25	617.05	617.09
☉ Brg. E. Abut.	850+47.00	-3.25	617.01	617.01
Bk. of E. Abut.	850+48.96	-3.25	616.99	616.99

**☉ IL-17 AND P.G.L.**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	849+49.04	0.00	617.55	617.55
☉ Brg. W. Abut.	849+51.00	0.00	617.54	617.54
A	849+61.00	0.00	617.52	617.58
B	849+71.00	0.00	617.49	617.60
C	849+81.00	0.00	617.45	617.61
D	849+91.00	0.00	617.41	617.59
E	850+01.00	0.00	617.36	617.55
F	850+11.00	0.00	617.30	617.48
G	850+21.00	0.00	617.24	617.39
H	850+31.00	0.00	617.18	617.27
I	850+41.00	0.00	617.10	617.14
☉ Brg. E. Abut.	850+47.00	0.00	617.06	617.06
Bk. of E. Abut.	850+48.96	0.00	617.04	617.04

**STAGE CONSTRUCTION LINE**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	849+49.04	1.03	617.53	617.53
☉ Brg. W. Abut.	849+51.00	1.03	617.53	617.53
A	849+61.00	1.01	617.50	617.56
B	849+71.00	1.00	617.47	617.59
C	849+81.00	1.00	617.44	617.59
D	849+91.00	1.00	617.39	617.58
E	850+01.00	1.00	617.34	617.54
F	850+11.00	1.00	617.29	617.47
G	850+21.00	1.00	617.23	617.37
H	850+31.00	1.00	617.16	617.26
I	850+41.00	1.00	617.09	617.12
☉ Brg. E. Abut.	850+47.00	1.00	617.04	617.04
Bk. of E. Abut.	850+48.96	1.00	617.03	617.03

**BEAM NO. 4**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	849+49.05	3.28	617.50	617.50
☉ Brg. W. Abut.	849+51.01	3.28	617.49	617.49
A	849+61.00	3.26	617.47	617.53
B	849+71.00	3.25	617.44	617.55
C	849+81.00	3.25	617.40	617.56
D	849+91.00	3.25	617.36	617.54
E	850+01.00	3.25	617.31	617.50
F	850+11.00	3.25	617.26	617.43
G	850+21.00	3.25	617.20	617.34
H	850+31.00	3.25	617.13	617.22
I	850+41.00	3.25	617.05	617.09
☉ Brg. E. Abut.	850+47.00	3.25	617.01	617.01
Bk. of E. Abut.	850+48.96	3.25	616.99	616.99

**BEAM NO. 5**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	849+49.07	9.78	617.40	617.40
☉ Brg. W. Abut.	849+51.02	9.78	617.39	617.39
A	849+61.01	9.76	617.37	617.43
B	849+71.00	9.75	617.34	617.46
C	849+81.00	9.75	617.30	617.46
D	849+91.00	9.75	617.26	617.45
E	850+01.00	9.75	617.21	617.40
F	850+11.00	9.75	617.16	617.34
G	850+21.00	9.75	617.10	617.24
H	850+31.00	9.75	617.03	617.13
I	850+41.00	9.75	616.96	616.99
☉ Brg. E. Abut.	850+47.00	9.75	616.91	616.91
Bk. of E. Abut.	850+48.96	9.75	616.89	616.89

**BEAM NO. 6**

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. of W. Abut.	849+49.08	16.28	617.28	617.28
☉ Brg. W. Abut.	849+51.04	16.28	617.28	617.28
A	849+61.02	16.26	617.25	617.31
B	849+71.01	16.25	617.22	617.34
C	849+81.00	16.25	617.19	617.34
D	849+91.00	16.25	617.14	617.33
E	850+01.00	16.25	617.09	617.28
F	850+11.00	16.25	617.04	617.21
G	850+21.00	16.25	616.98	617.12
H	850+31.00	16.25	616.91	617.01
I	850+41.00	16.25	616.84	616.87
☉ Brg. E. Abut.	850+47.00	16.25	616.79	616.79
Bk. of E. Abut.	850+48.96	16.25	616.78	616.78

MODEL: Default  
 FILE NAME: \\b501\Projects\2021\11\082 - PTB 201+27 D3-Wight-Variou Is\I\WO #8 - 15P BR PH2 Design IL-17\CADD\CADD Sheets\0460162-006-TOS Elev.dgn  
 3/13/2024 3:05:25 PM



USER NAME = cstokes	DESIGNED - CFS	REVISED -
0460162-006-TOS Elev.dgn	CHECKED - KWB	REVISED -
PLOT SCALE =	DRAWN - CFS	REVISED -
PLOT DATE =	CHECKED - MDC	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**TOP OF SLAB ELEVATIONS  
STRUCTURE NO. 046-0162**

SHEET 6 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	33
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	849+19.95	-17.85	617.28
A1	849+29.96	-17.90	617.27
A2	849+39.98	-17.95	617.26
E. End of W. Appr. Slab	849+50.00	-17.97	617.24

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	849+19.98	-12.00	617.40
A1	849+29.99	-12.00	617.39
A2	849+40.00	-12.00	617.38
E. End of W. Appr. Slab	849+50.01	-12.00	617.36

CL IL-17 AND P.G.L.

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	849+20.04	0.00	617.58
A1	849+30.04	0.00	617.57
A2	849+40.04	0.00	617.56
E. End of W. Appr. Slab	849+50.04	0.00	617.54

STAGE CONSTRUCTION LINE

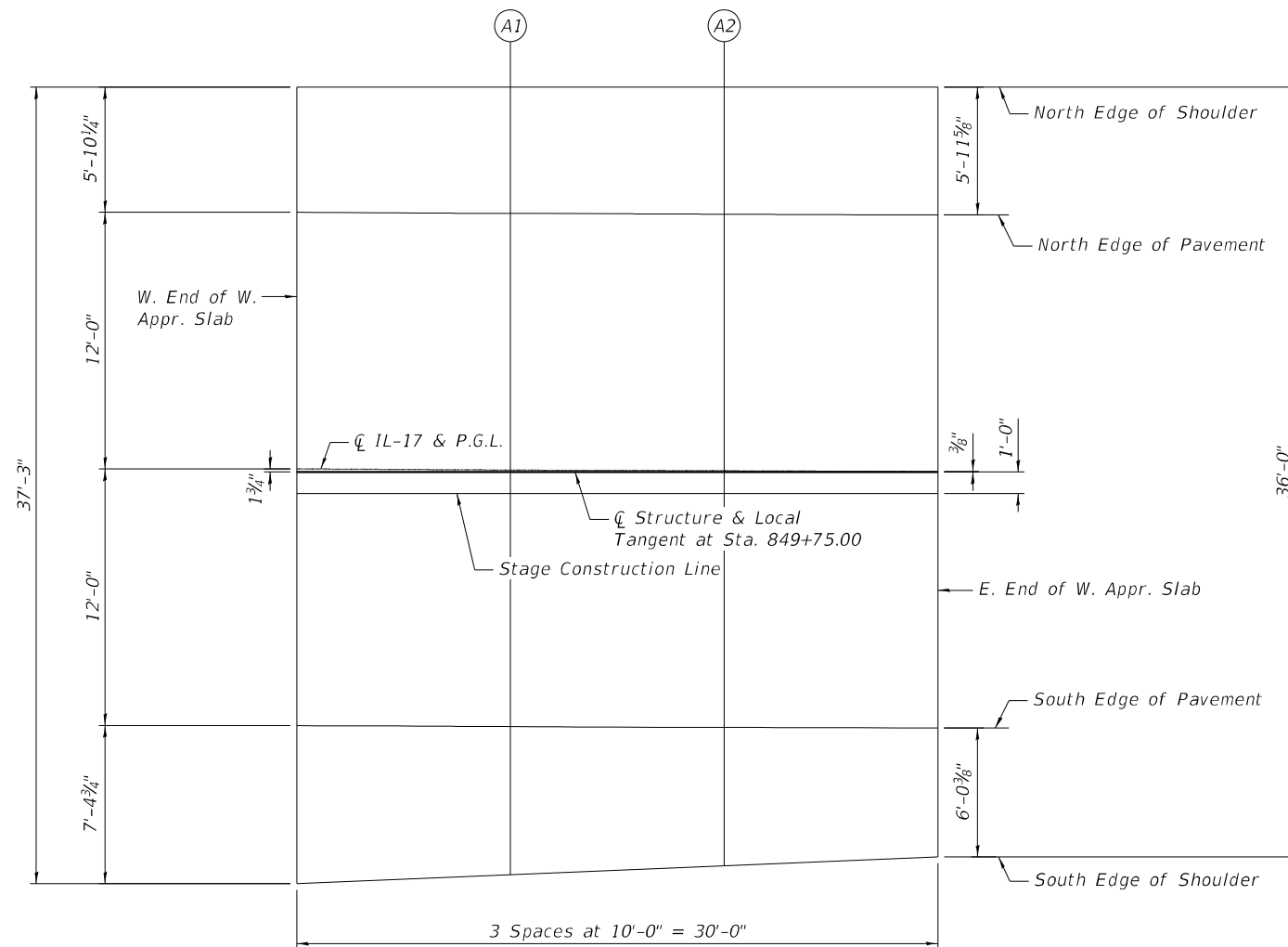
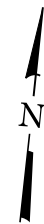
Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	849+20.05	1.15	617.56
A1	849+30.05	1.10	617.56
A2	849+40.05	1.06	617.55
E. End of W. Appr. Slab	849+50.04	1.03	617.53

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	849+20.11	12.00	617.40
A1	849+30.09	12.00	617.39
A2	849+40.08	12.00	617.38
E. End of W. Appr. Slab	849+50.07	12.00	617.36

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of W. Appr. Slab	849+20.14	19.40	617.25
A1	849+30.12	18.93	617.25
A2	849+40.10	18.48	617.25
E. End of W. Appr. Slab	849+50.09	18.03	617.24



PLAN  
(West Approach)

Notes:  
 Offsets are measured perpendicular from CL IL-17.  
 Transverse dimensions are measured perpendicular to CL Structure.  
 Longitudinal dimensions are measured parallel to CL Structure.

E-AS 2-17-2017

MODEL: Default  
 FILE NAME: \\bs01\Projects\2021\11\082 - PTB 201+27 D3-Vigh\Various IsllWVO #8 - 15P BR PH2 Design IL-17\CADD\CADD Sheets\0460162-66L10-007-TOS Elev W Appr.dgn  
 3/13/2024 3:05:26 PM

	USER NAME = cstokes	DESIGNED - CFS	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TOP OF WEST APPROACH SLAB ELEVATIONS STRUCTURE NO. 046-0162	F.A.P. RTE. 41	SECTION (13)BR-2	COUNTY KANKAKEE	TOTAL SHEETS 79	SHEET NO. 34
	PLOT SCALE =	DRAWN - CFS	REVISED -			SHEET 7 OF 25 SHEETS	CONTRACT NO. 66L10		ILLINOIS FED. AID PROJECT	
QUIGG ENGINEERING INC	PLOT DATE =	CHECKED - MDC	REVISED -							

NORTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	850+47.96	-18.00	616.75
A3	850+57.96	-18.00	616.67
A4	850+67.96	-18.00	616.58
E. End of E. Appr. Slab	850+77.96	-18.00	616.49

NORTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	850+47.96	-12.00	616.87
A3	850+57.96	-12.00	616.79
A4	850+67.96	-12.00	616.70
E. End of E. Appr. Slab	850+77.96	-12.00	616.61

CL IL-17 AND P.G.L.

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	850+47.96	0.00	617.05
A3	850+57.96	0.00	616.97
A4	850+67.96	0.00	616.88
E. End of E. Appr. Slab	850+77.96	0.00	616.79

STAGE CONSTRUCTION LINE

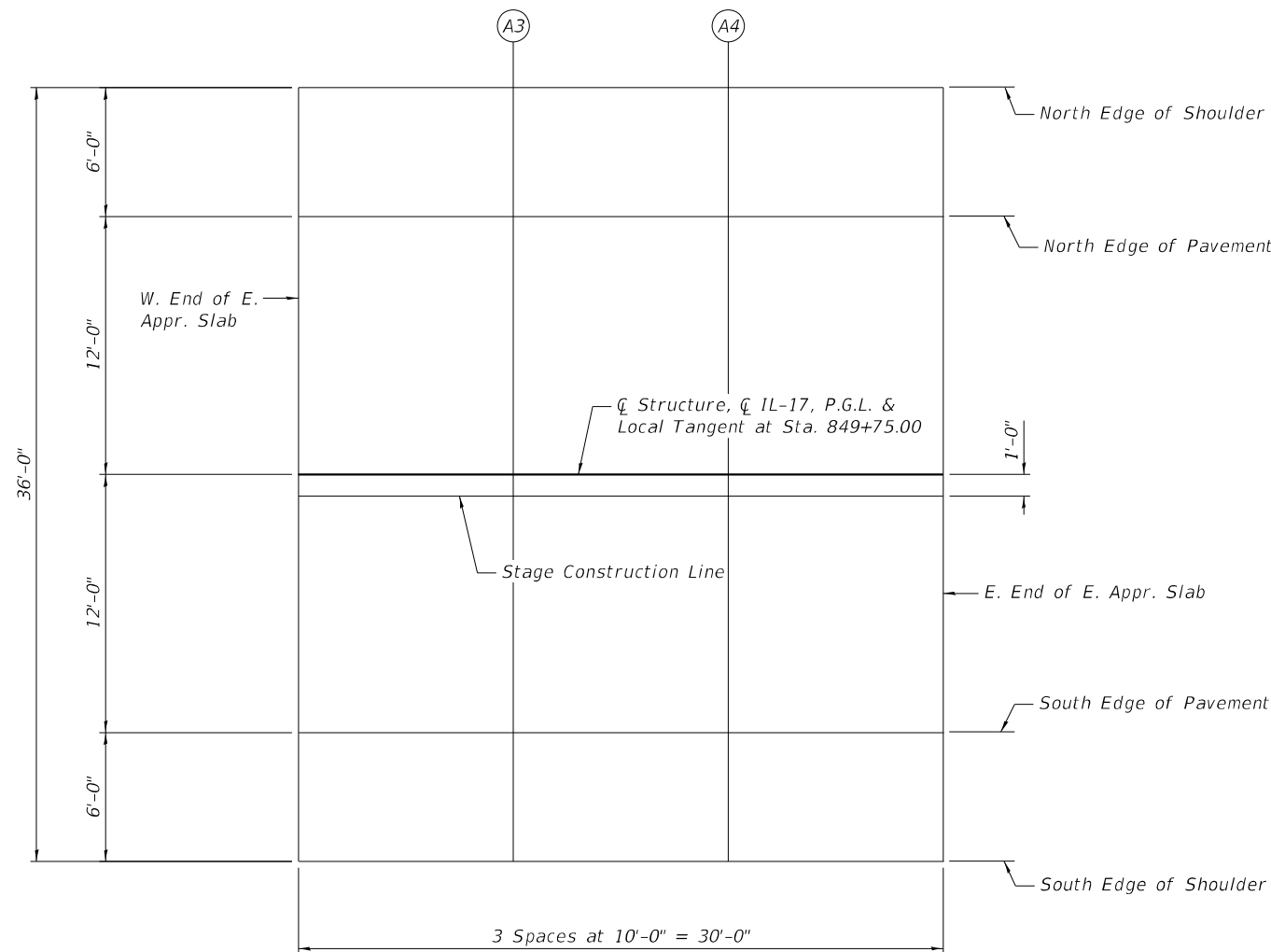
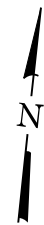
Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	850+47.96	1.00	617.03
A3	850+57.96	1.00	616.95
A4	850+67.96	1.00	616.86
E. End of E. Appr. Slab	850+77.96	1.00	616.77

SOUTH EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	850+47.96	12.00	616.87
A3	850+57.96	12.00	616.79
A4	850+67.96	12.00	616.70
E. End of E. Appr. Slab	850+77.96	12.00	616.61

SOUTH EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
W. End of E. Appr. Slab	850+47.96	18.00	616.75
A3	850+57.96	18.00	616.67
A4	850+67.96	18.00	616.58
E. End of E. Appr. Slab	850+77.96	18.00	616.49



**PLAN**  
(East Approach)

Notes:  
 Offsets are measured perpendicular from CL IL-17.  
 Transverse dimensions are measured perpendicular to CL Structure.  
 Longitudinal dimensions are measured parallel to CL Structure.

E-AS 2-17-2017

MODEL: Default  
 FILE NAME: \\bs01\Projects\2021\11\082 - PTB 201+27 D3-Vigh\Various Isll\WO #8 - 15P BR PH2 Design IL-17\CADD\CADD Sheets\0460162-66L10-008-TOS Elev E Appr.dgn



QUIGG ENGINEERING INC

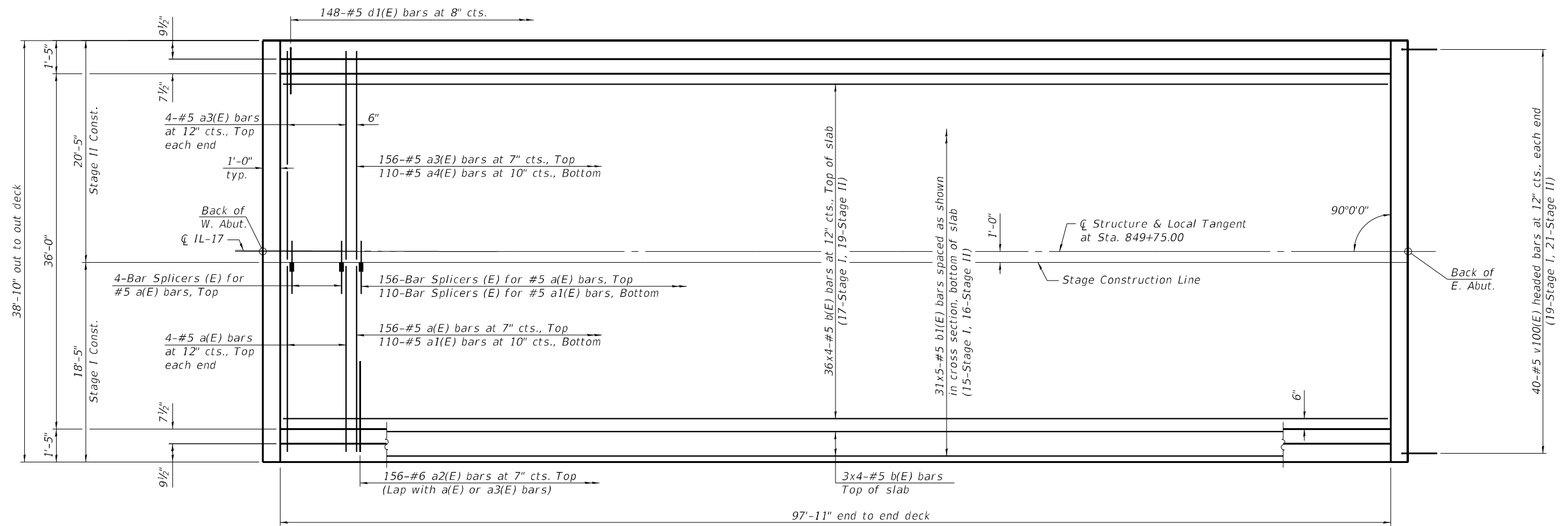
USER NAME = cstokes	DESIGNED - CFS	REVISED -
0460162-66L10-008-TOS Elev E Appr.dgn	CHECKED - KWB	REVISED -
PLOT SCALE =	DRAWN - CFS	REVISED -
PLOT DATE =	CHECKED - MDC	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

TOP OF EAST APPROACH SLAB ELEVATIONS  
 STRUCTURE NO. 046-0162

SHEET 8 OF 25 SHEETS

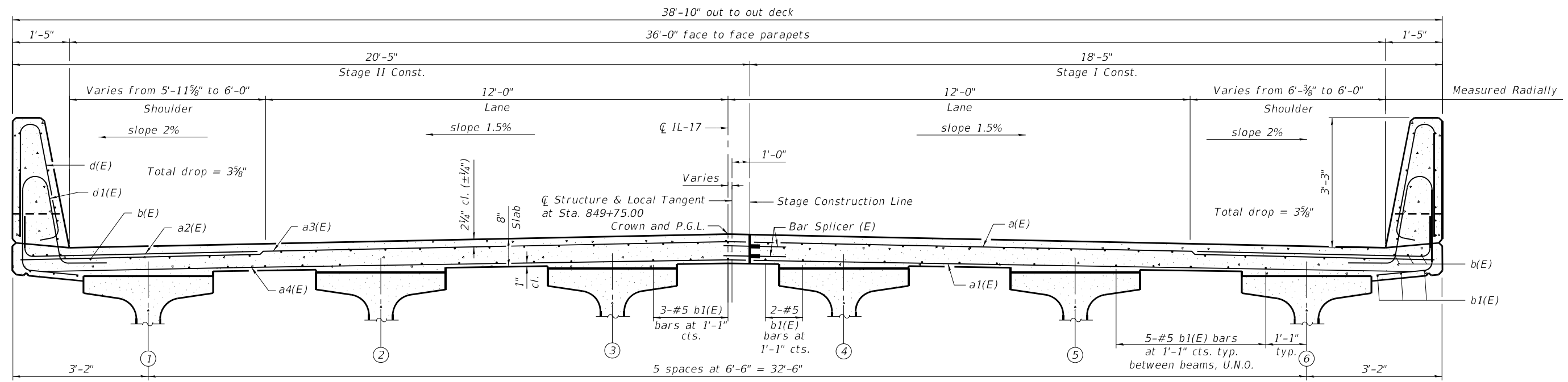
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	35
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				



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

**PLAN**

Notes:  
See sheet 10 of 25 for superstructure details and Bill of Material.  
Bars indicated thus 20 x 3-#5 etc. indicates 20 lines of bars with 3 lengths per line.  
See sheet 23 of 25 for bar splicer details.  
Transverse dimensions are measured perpendicular to  $\bar{C}$  structure.  
Longitudinal dimensions are measured parallel to  $\bar{C}$  structure.



**CROSS SECTION**  
(Looking East)

SI-IL3690-1-0 8-13-2021



USER NAME = cstokes	DESIGNED - CFS	REVISED -
0460162-66L10-009-Super.dgn	CHECKED - KWB	REVISED -
PLOT SCALE =	DRAWN - CFS	REVISED -
PLOT DATE =	CHECKED - MDC	REVISED -

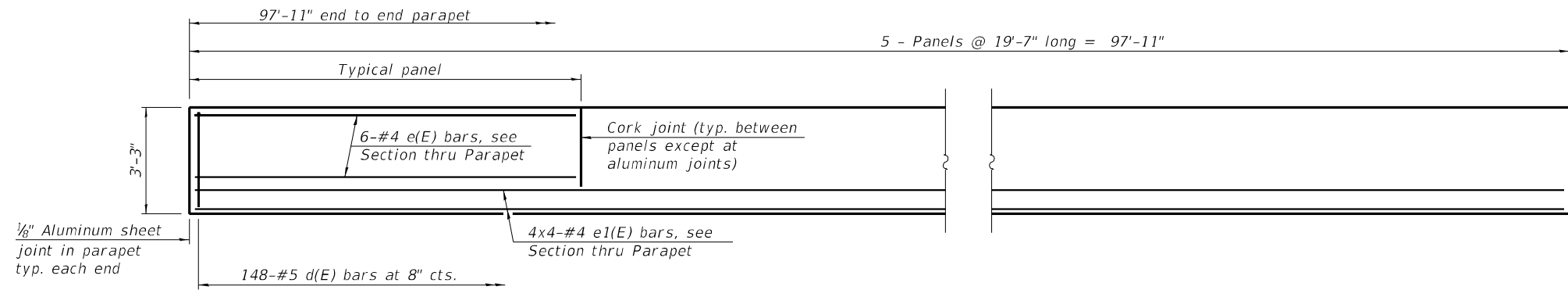
**STATE OF ILLINOIS**  
**DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE**  
**STRUCTURE NO. 046-0162**

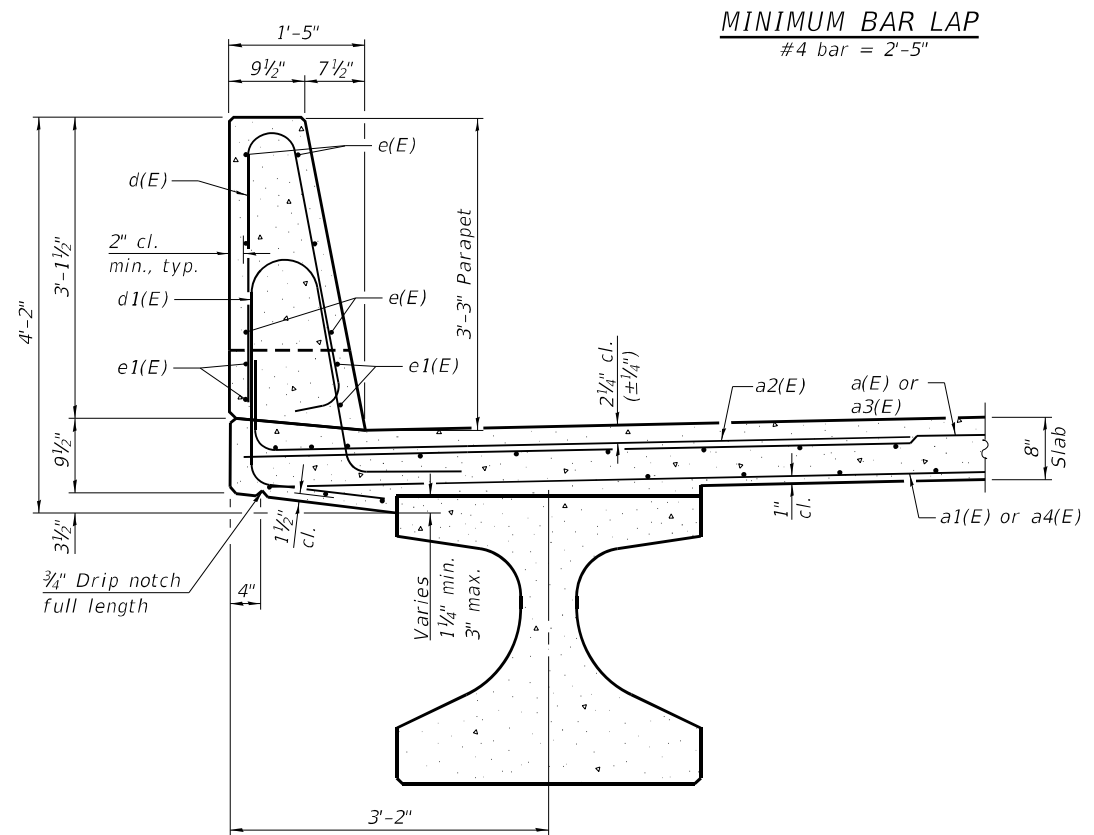
SHEET 9 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	36
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				

MODEL: Default  
FILE NAME: \\bs01\Projects\2021\11L082 - PTB 201+27 D3-Vigh+Various IsllWVO #8 - 15P BR PH2 Design IL-17\CADD\CADD Sheets\0460162-66L10-009-Super.dgn  
3/13/2024 3:05:28 PM

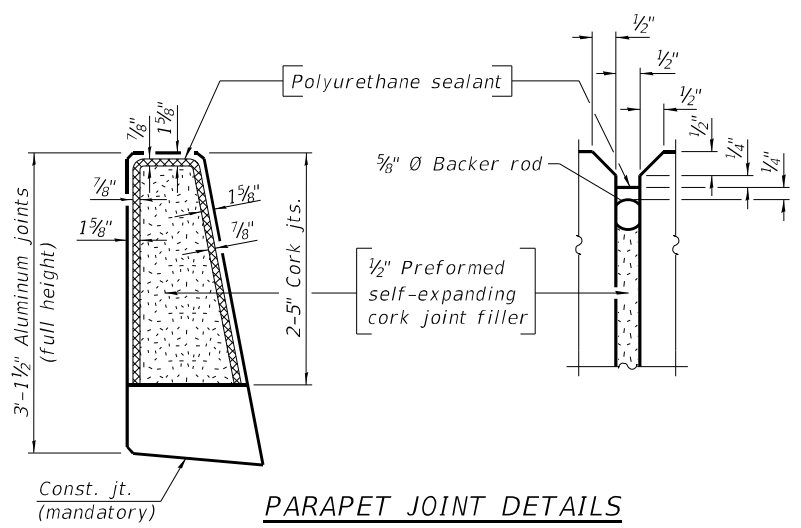


**INSIDE ELEVATION OF PARAPET**

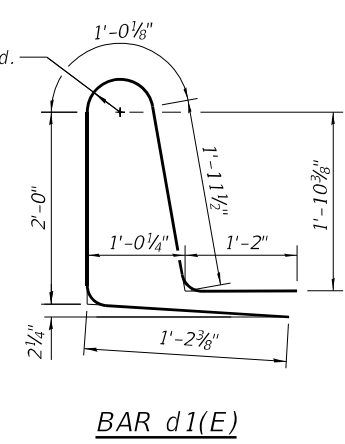
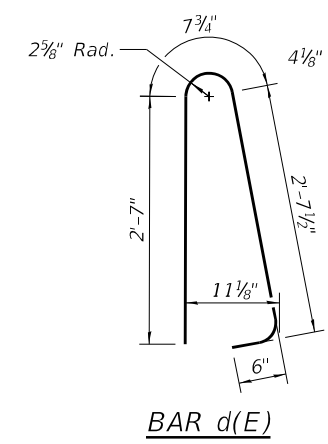
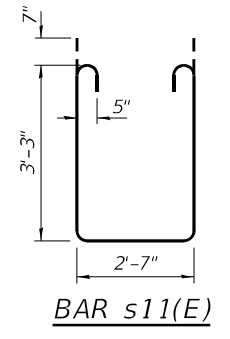
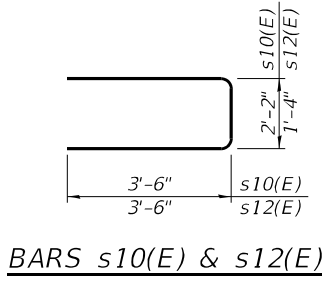
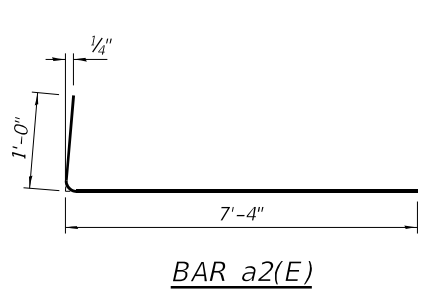
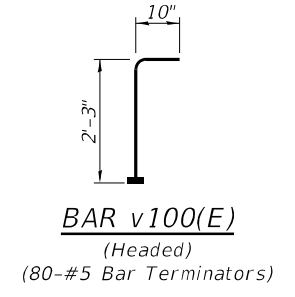


**SECTION THRU PARAPET**

**MINIMUM BAR LAP**  
#4 bar = 2'-5"



**PARAPET JOINT DETAILS**



**SUPERSTRUCTURE BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a(E)	164	#5	18'-2"	—
a1(E)	110	#5	17'-11"	—
a2(E)	312	#6	8'-4"	┌
a3(E)	164	#5	20'-2"	—
a4(E)	110	#5	19'-11"	—
b(E)	168	#5	27'-2"	—
b1(E)	155	#5	22'-5"	—
d(E)	296	#5	6'-5"	┌
d1(E)	296	#5	7'-4"	┌
e(E)	60	#4	19'-3"	—
e1(E)	32	#4	26'-4"	—
m10(E)	8	#6	18'-2"	—
m11(E)	16	#6	5'-1"	—
m12(E)	8	#6	2'-4"	—
m13(E)	8	#6	3'-0"	—
m14(E)	4	#6	1'-3"	—
m15(E)	24	#5	4'-0"	—
m16(E)	2	#6	2'-4"	—
m17(E)	8	#6	20'-2"	—
s10(E)	52	#5	9'-2"	┌
s11(E)	52	#5	10'-3"	┌
s12(E)	48	#5	8'-4"	┌
v100(E)	80	#5	3'-1"	┌
Reinforcement Bars, Epoxy Coated			Lbs.	31,260
Concrete Superstructure			Cu. Yds.	170.8

Notes:  
 The 1/8" Aluminum sheet shall be ASTM B 209 alloy 3003-H14 and coated to minimize reaction with wet concrete. Cost included with Concrete Superstructure.  
 The polyurethane sealant shall be according to Article 1050.04 of the Std. Spec. and the color shall be gray.  
 Bar terminators, paid for separately. See Total Bill of Material.

Bars indicated thus 1 x 2-#4 etc. indicates 1 line of bars with 2 lengths per line.

MODEL: Default  
 FILE NAME: \\bs01\Projects\2021\11\082 - PTB 201+27 D3-Vigh-Variou Is\IWO #8 - 15P BR PH2 Design IL-17\CADD\CADD Sheets\0460162-66L10-010-Super Details.dgn  
 SDI-IL36-1 6-15-2019

SDI-IL36-1 6-15-2019



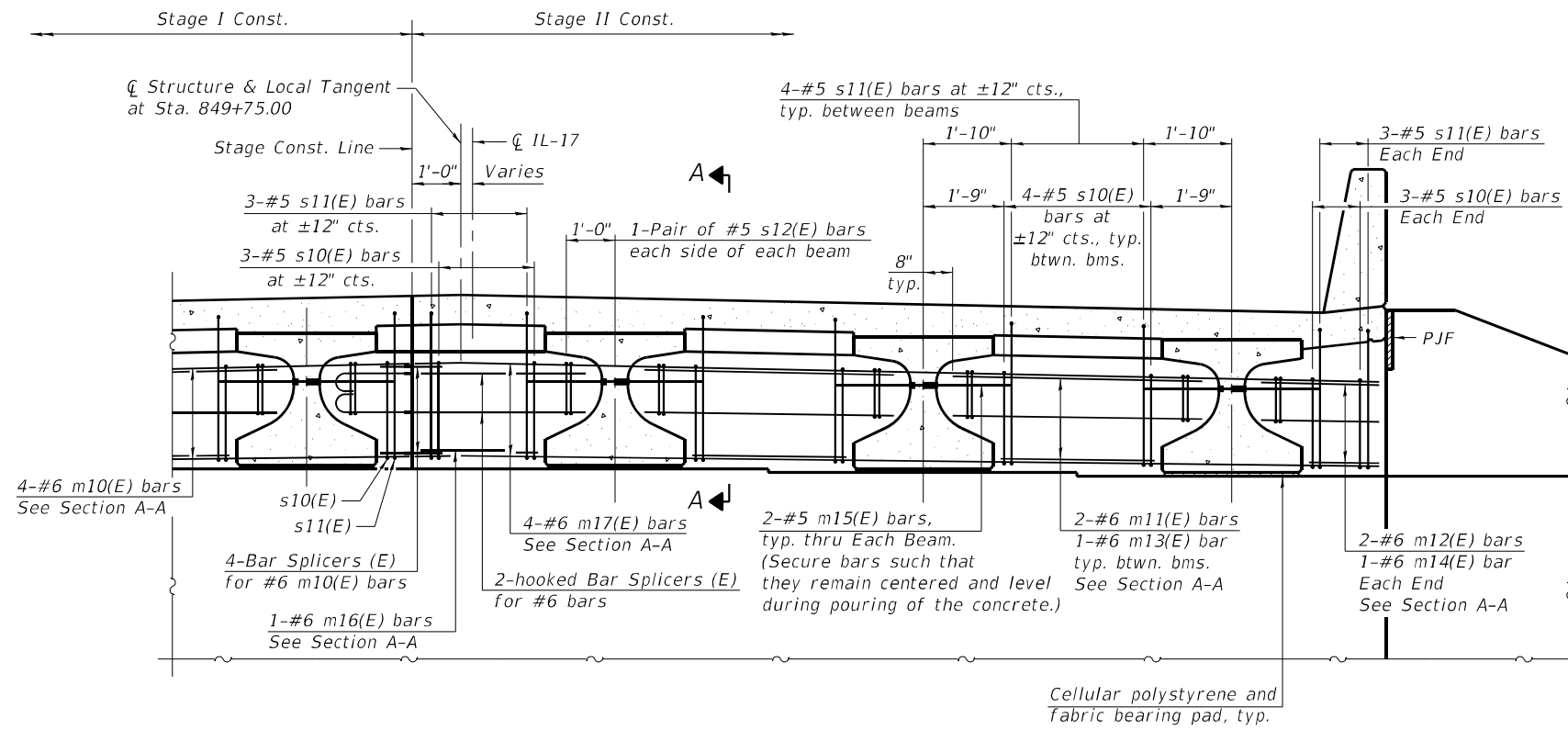
USER NAME = JCray	DESIGNED - CFS	REVISED -
0460162-66L10-010-Super Details.dgn	CHECKED - KWB	REVISED -
PLOT SCALE =	DRAWN - CFS	REVISED -
PLOT DATE =	CHECKED - MDC	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**SUPERSTRUCTURE DETAILS  
 STRUCTURE NO. 046-0162**

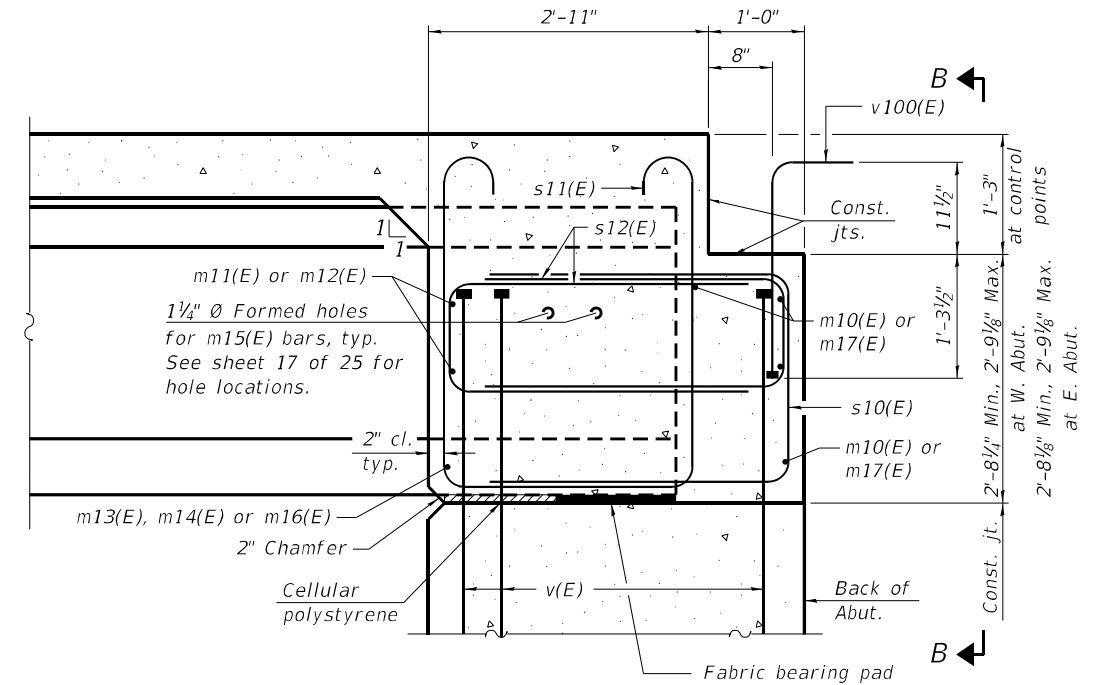
SHEET 10 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	37
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				

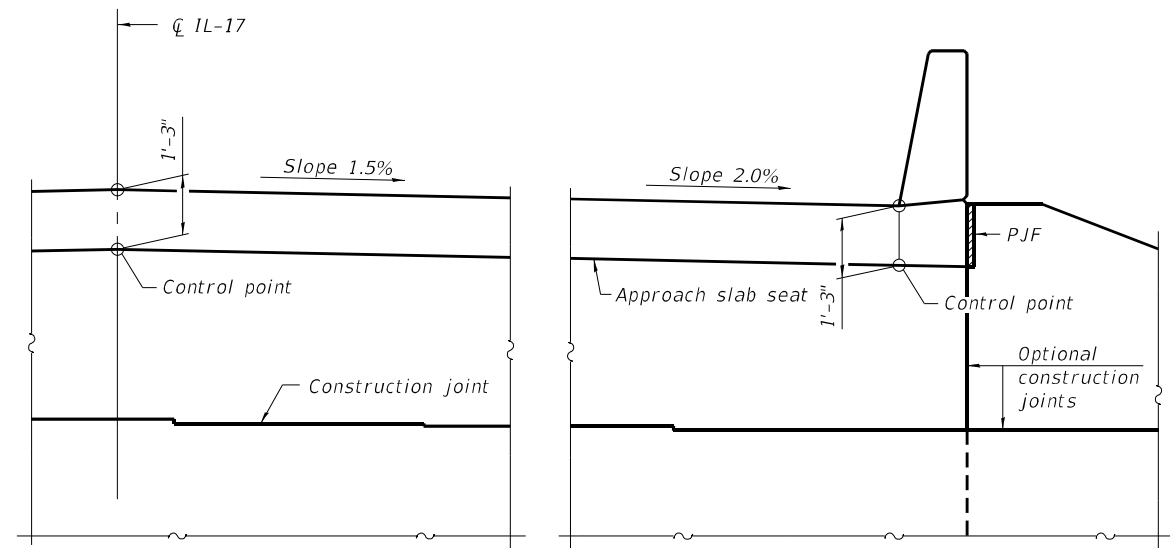


**DIAPHRAGM AT ABUTMENT**

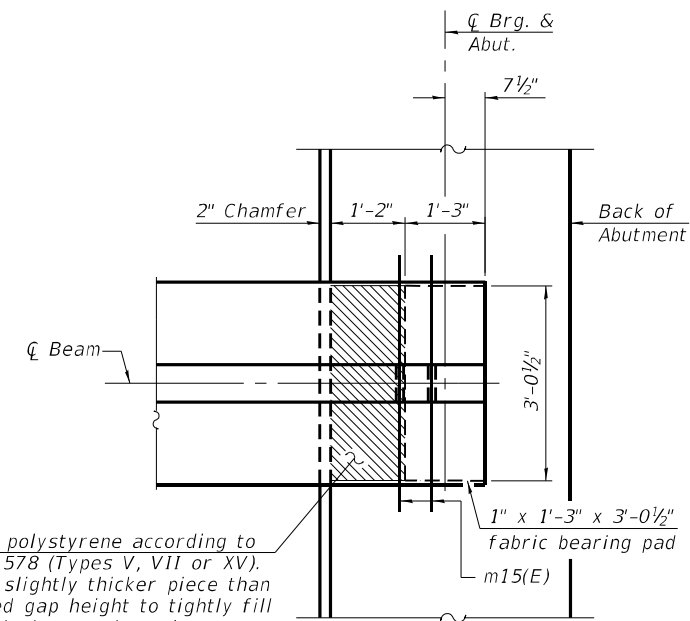
(West Diaphragm looking West shown, East Diaphragm looking East similar)



**SECTION A-A**



**VIEW B-B**



**PLAN AT ABUTMENT**

(Showing bottom flange of beam)

**Notes:**

- See sheet 10 of 25 for superstructure details and Bill of Material.
- See sheets 12 and 14 of 25 for P.J.F. details.
- The approach slab seat shall have a constant slope determined from the control points shown.
- Cost of cellular polystyrene is included with Concrete Superstructure.
- See sheet 23 of 25 for bar splicer details.

MODEL: Default  
FILE NAME: \\bs01\Projects\2021\11L082 - PTB 201+27 D3-Wght-Variou I&I\W0 #8 - 15P BR PH2 Design IL-17\CADD\CADD Sheets\0460162-66L10-011-Dia.dgn  
3/13/2024 3:05:30 PM

DIA-IL36-0

6-15-2019



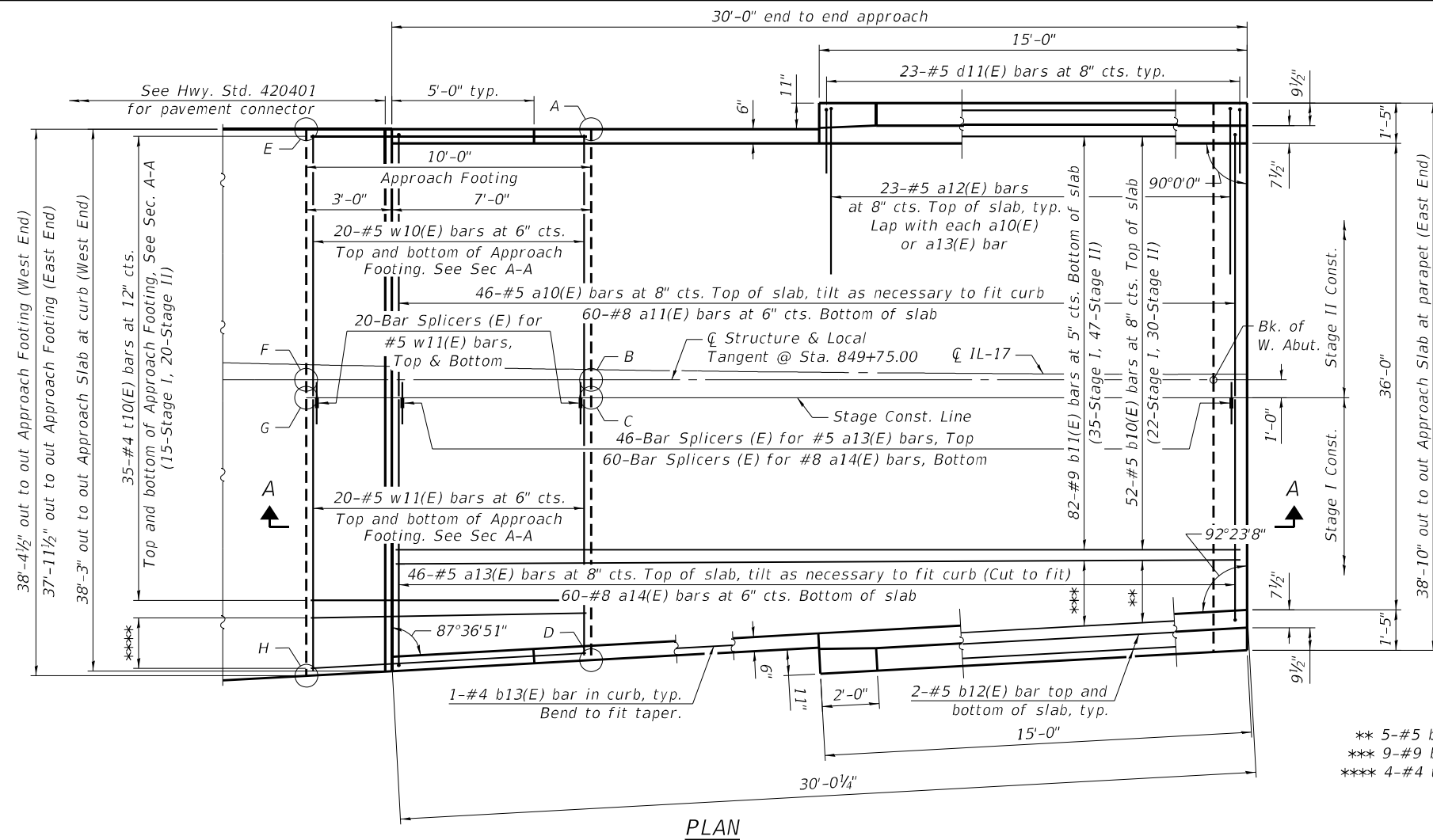
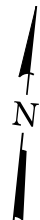
USER NAME = cstokes	DESIGNED - CFS	REVISED -
0460162-66L10-011-Dia.dgn	CHECKED - KWB	REVISED -
PLOT SCALE =	DRAWN - CFS	REVISED -
PLOT DATE =	CHECKED - MDC	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**DIAPHRAGM DETAILS  
STRUCTURE NO. 046-0162**

SHEET 11 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	38
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				



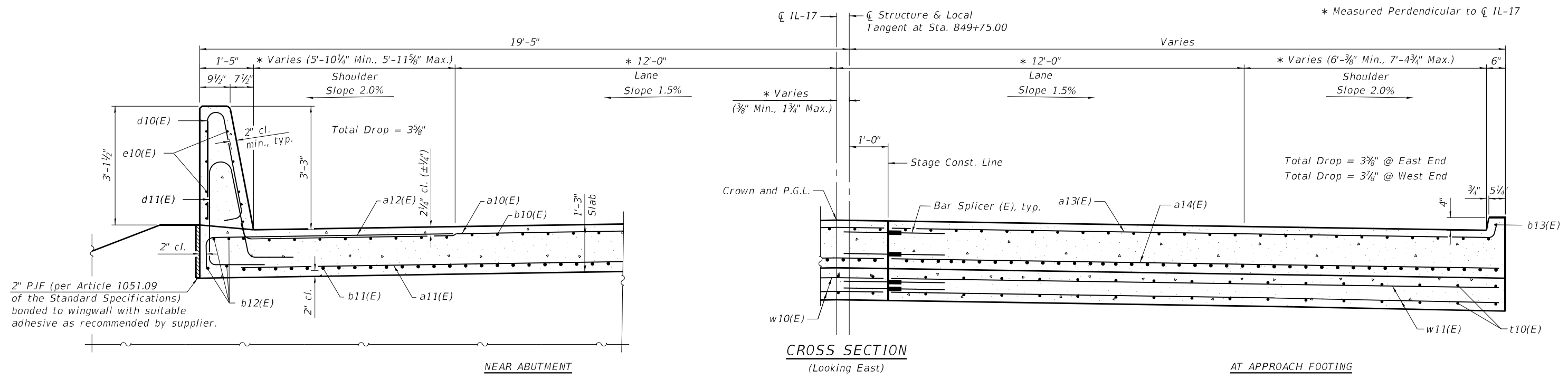
**TOP AND BOTTOM ELEVATIONS  
FOR APPROACH FOOTING**

West Approach		
Point	Top	Bottom
A	615.98	615.15
B	616.29	615.46
C	616.27	615.44
D	615.96	615.13
E	615.99	615.15
F	616.29	615.46
G	616.28	615.44
H	615.95	615.12

Note:  
See sheet 23 of 25 for bar splicer details.

- \*\* 5-#5 b10(E) bars flared at ±8" cts. Top of Slab
- \*\*\* 9-#9 b11(E) bars flared at ±5" cts. Bottom of Slab
- \*\*\*\* 4-#4 t10(E) bars flared at ±12" cts. Top and bottom of Approach Footing

**PLAN**



**CROSS SECTION**  
(Looking East)

**AT APPROACH FOOTING**

(Sheet 1 of 2)

MODEL: Default  
FILE NAME: \\bs01\Projects\2021\11\082 - PTB 201+27 D3-Wigh-Variou I&I\WVO #8 - 15P BR PH2 Design IL-17\CADD\CADD Sheets\0460162-66L10-012-W Appr.dgn  
3/13/2024 3:05:31 PM



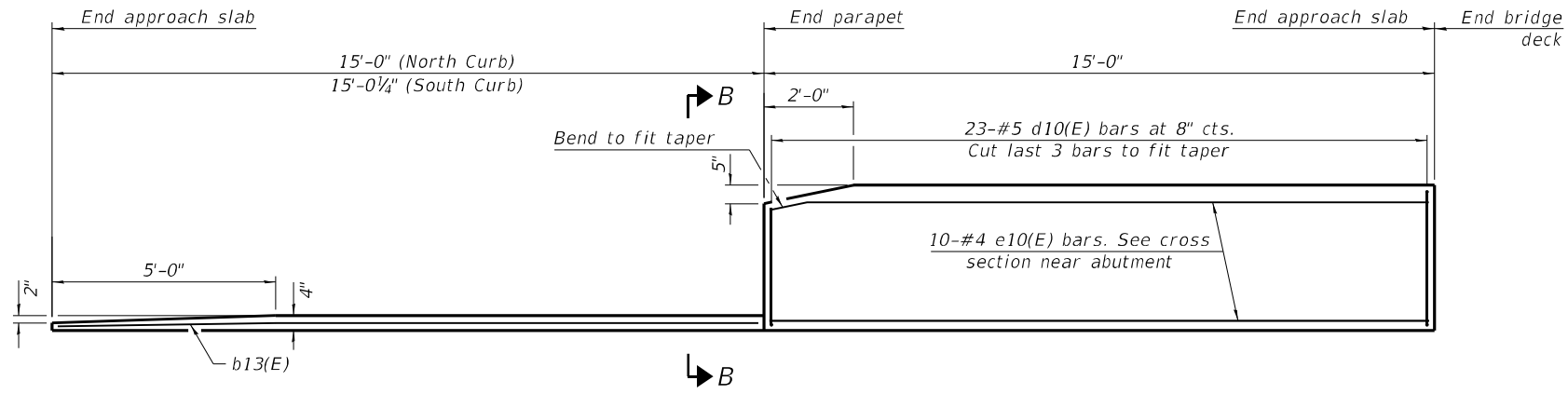
USER NAME = cstokes	DESIGNED - CFS	REVISED -
0460162-66L10-012-W Appr.dgn	CHECKED - KWB	REVISED -
PLOT SCALE =	DRAWN - CFS	REVISED -
PLOT DATE =	CHECKED - MDC	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**WEST BRIDGE APPROACH SLAB DETAILS  
STRUCTURE NO. 046-0162**

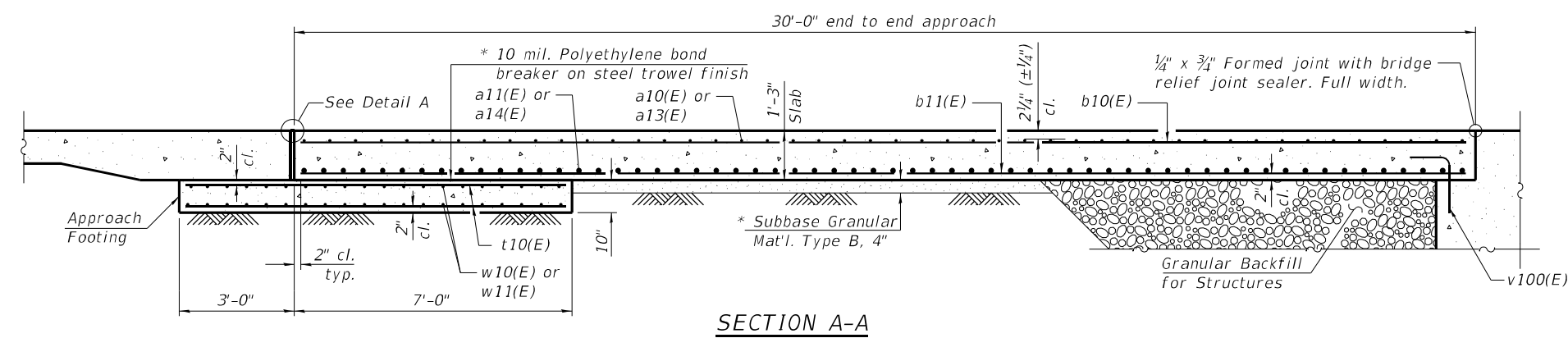
SHEET 12 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	39
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				

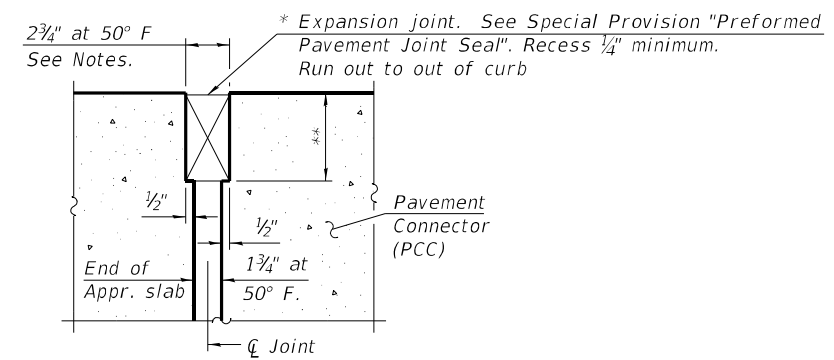


**INSIDE ELEVATION OF PARAPET AND CURB**

(North Parapet and Curb shown, South Parapet and Curb similar unless noted otherwise)

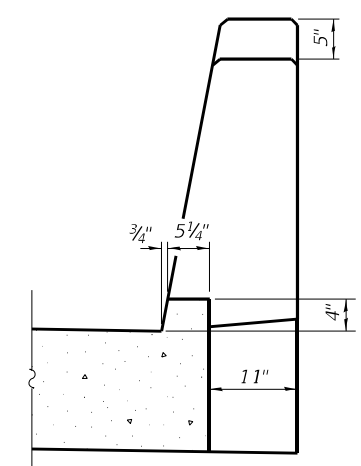


**SECTION A-A**

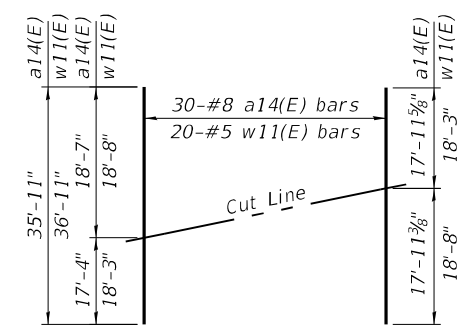


**DETAIL A**

\* Cost included with Concrete Superstructure (Approach Slab).  
 \*\* Per manufacturer recommendations



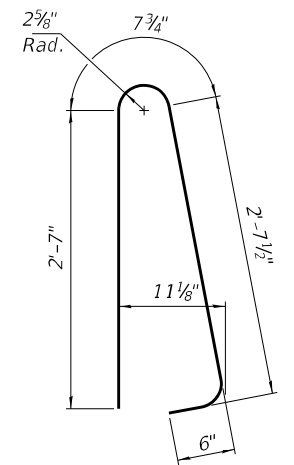
**VIEW B-B**



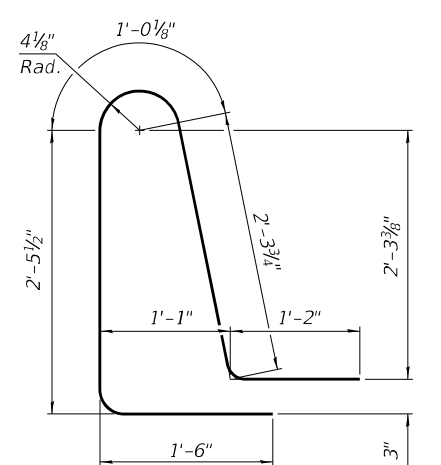
**FIELD CUTTING DIAGRAM**

Order w11(E) bars full length. Cut as shown and use remainder of bars in bottom of approach footing.  
 Order a14(E) bars full length. Cut as shown and use the remainder of bars in opposite side of approach slab.

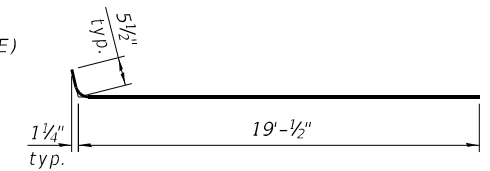
**Notes:**  
 The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.  
 Parapet concrete shall be paid for as Concrete Superstructure.  
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).  
 Approach footing concrete shall be paid for as Concrete Structures.  
 The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.  
 Cost of excavation for approach footing included with Concrete Structures.  
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 25.  
 For Type 6 terminal connections see Highway Standard 631031.



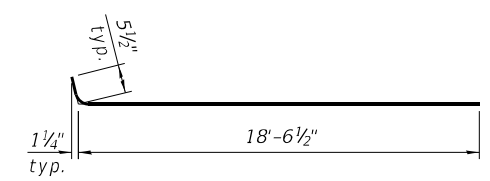
**BAR d10(E)**



**BAR d11(E)**



**BAR a10(E)**



**BAR a13(E)**



**BAR a12(E)**

**WEST APPROACH BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a10(E)	46	#5	19'-6"	—
a11(E)	60	#8	19'-2"	—
a12(E)	46	#5	7'-4"	—
a13(E)	46	#5	19'-0"	—
a14(E)	30	#8	35'-11"	—
b10(E)	57	#5	29'-8"	—
b11(E)	91	#9	29'-8"	—
b12(E)	8	#5	14'-8"	—
b13(E)	2	#4	14'-8"	—
d10(E)	46	#5	6'-5"	⌒
d11(E)	46	#5	8'-6"	⌒
e10(E)	20	#4	14'-8"	—
t10(E)	78	#4	9'-8"	—
w10(E)	40	#5	19'-2"	—
w11(E)	20	#5	36'-11"	—
Concrete Superstructure			Cu. Yd.	3.9
Concrete Superstructure (Approach Slab)			Cu. Yd.	53.9
Concrete Structures			Cu. Yd.	11.8
Reinforcement Bars, Epoxy Coated			Pound	22,220

(Sheet 2 of 2)

MODEL: Default  
 FILE NAME: \\bs01\Projects\2021\11\082 - PTB 201+27 D3-Vigh+Various Isll\WO #8 - 15P BR PH2 Design IL-17\CADD\CADD Sheets\0460162-66L10-013-W Appr.dgn  
 3/13/2024 3:05:33 PM



USER NAME = cstokes	DESIGNED - CFS	REVISED -
0460162-66L10-013-W Appr.dgn	CHECKED - KWB	REVISED -
PLOT SCALE =	DRAWN - CFS	REVISED -
PLOT DATE =	CHECKED - MDC	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

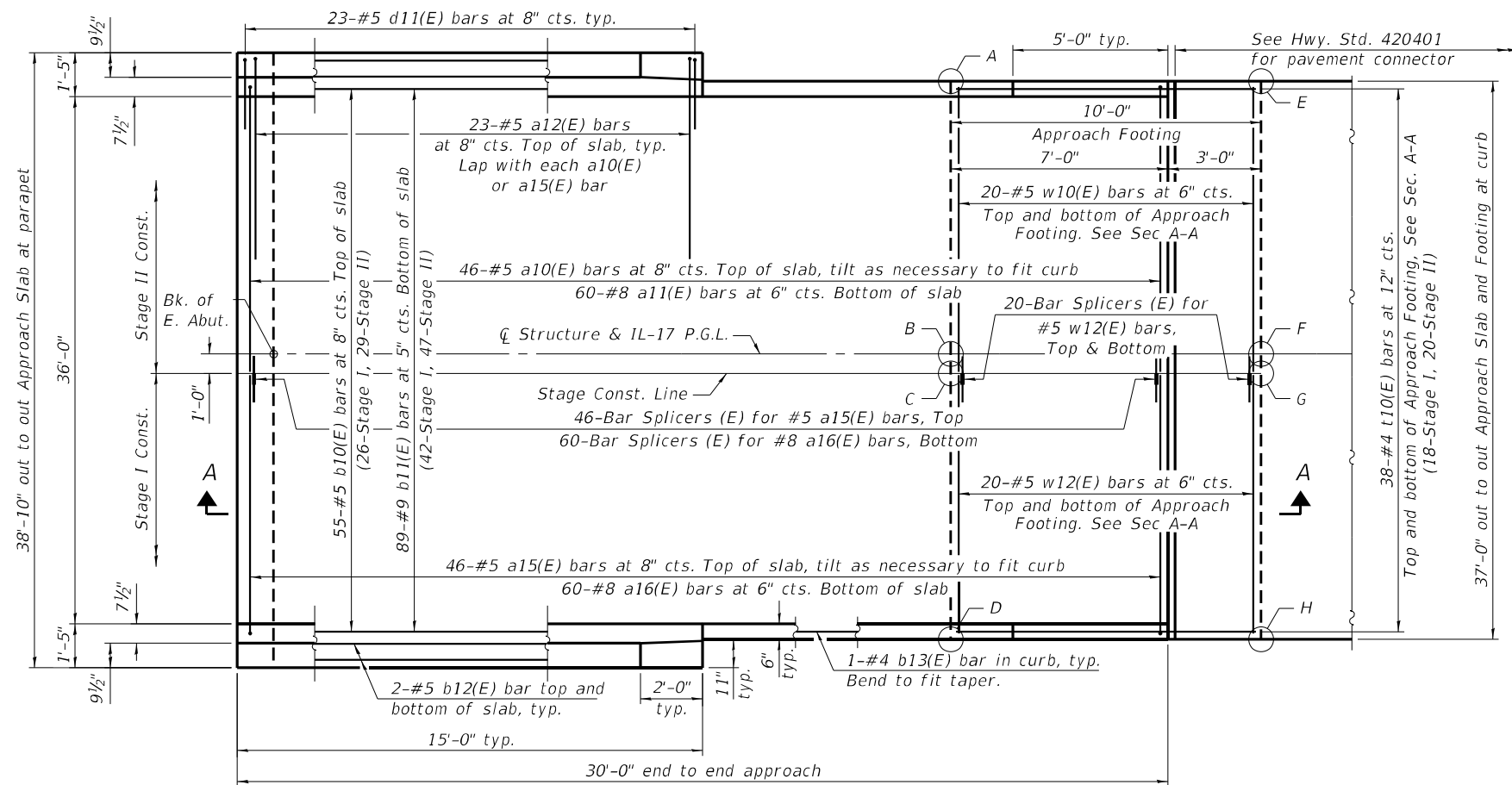
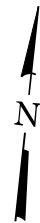
**WEST BRIDGE APPROACH SLAB DETAILS  
 STRUCTURE NO. 046-0162**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	40
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				

SHEET 13 OF 25 SHEETS



MODEL: Default  
 FILE NAME: \\bs01\Projects\2021\11\082 - PTB 201+27 D3-Wight-Variou IsllWVO #8 - 15P BR PH2 Design IL-17\CADD\CADD Sheets\0460162-66L10-014-E Appr.dgn  
 3/13/2024 3:05:34 PM

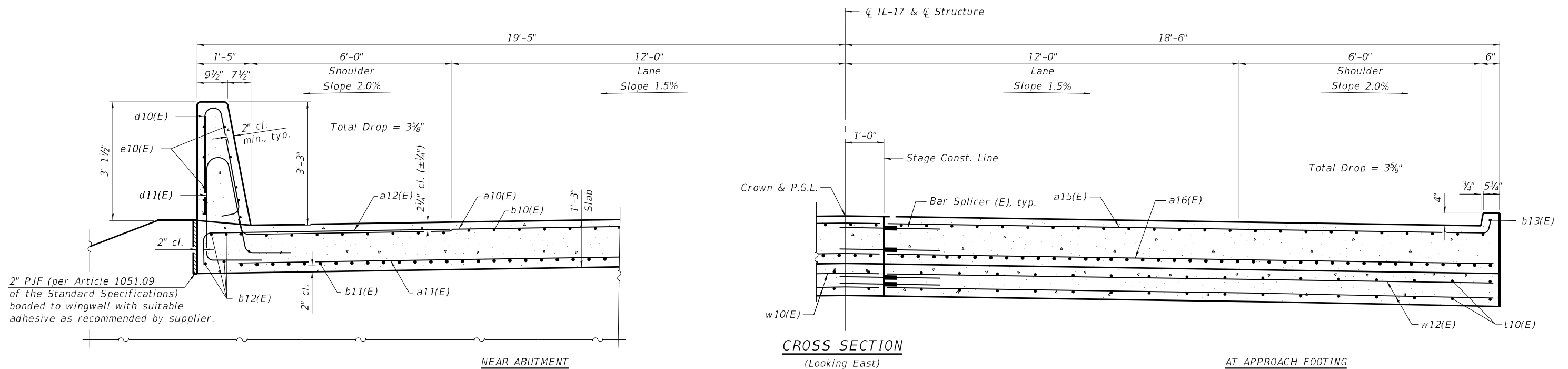


**PLAN**

**TOP AND BOTTOM ELEVATIONS FOR APPROACH FOOTING**

East Approach		
Point	Top	Bottom
A	615.26	614.42
B	615.57	614.73
C	615.55	614.72
D	615.26	614.42
E	615.17	614.34
F	615.48	614.65
G	615.46	614.63
H	615.17	614.34

Note:  
See sheet 23 of 25 for bar splicer details.



**CROSS SECTION**

(Looking East)

**AT APPROACH FOOTING**

BAIA-CIP-39CS-0 2-1-2023

(Sheet 1 of 2)



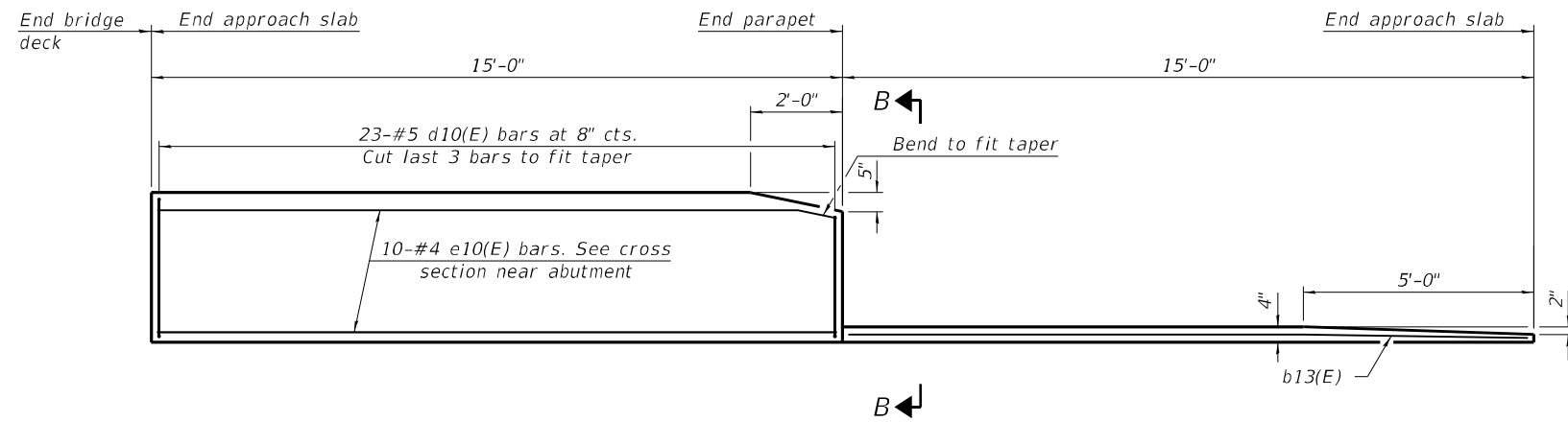
USER NAME = cstokes	DESIGNED - CFS	REVISED -
0460162-66L10-014-E Appr.dgn	CHECKED - KWB	REVISED -
PLOT SCALE =	DRAWN - CFS	REVISED -
PLOT DATE =	CHECKED - MDC	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**EAST BRIDGE APPROACH SLAB DETAILS  
STRUCTURE NO. 046-0162**

SHEET 14 OF 25 SHEETS

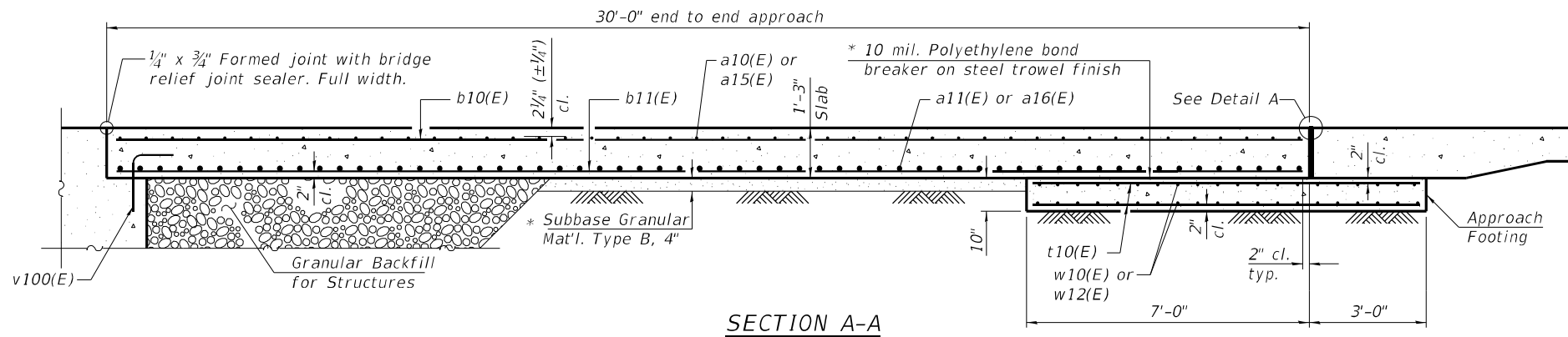
F.A.P. RTE. 41	SECTION (13)BR-2	COUNTY KANKAKEE	TOTAL SHEETS 79	SHEET NO. 41
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				



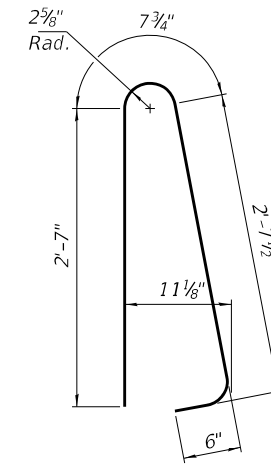
INSIDE ELEVATION OF PARAPET AND CURB

Notes:

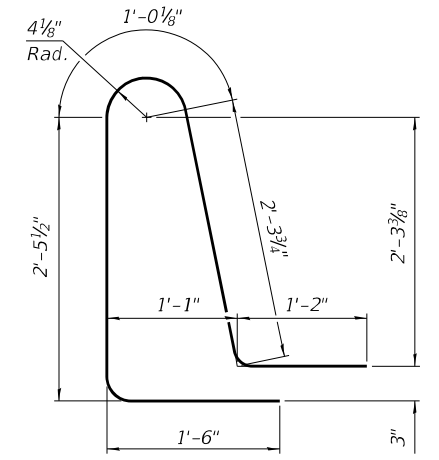
The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.  
 Parapet concrete shall be paid for as Concrete Superstructure.  
 Approach slab shall be paid for as Concrete Superstructure (Approach Slab).  
 Approach footing concrete shall be paid for as Concrete Structures.  
 The approach footing maximum applied service bearing pressure ( $Q_{max}$ ) = 2.0 ksf.  
 Cost of excavation for approach footing included with Concrete Structures.  
 For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 25.  
 For Type 6 terminal connections see Highway Standard 631031.



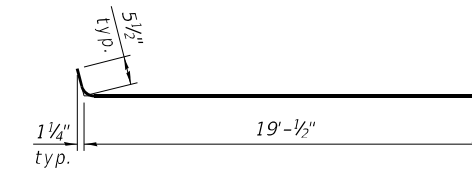
SECTION A-A



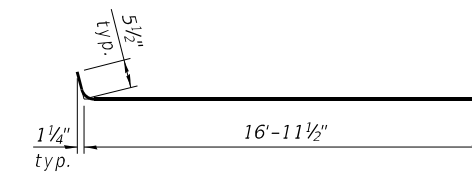
BAR d10(E)



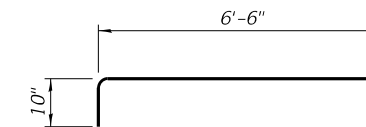
BAR d11(E)



BAR a10(E)



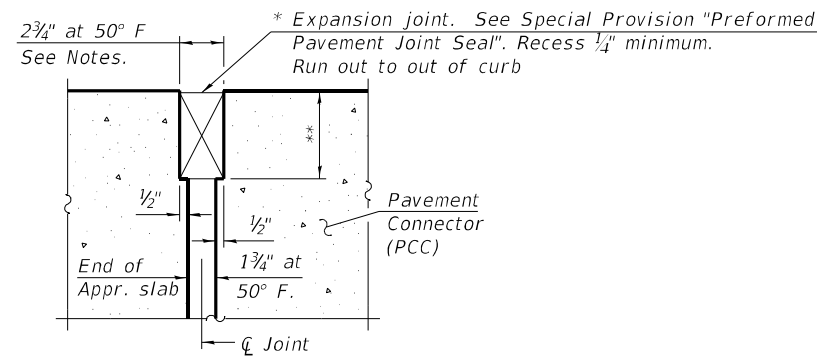
BAR a15(E)



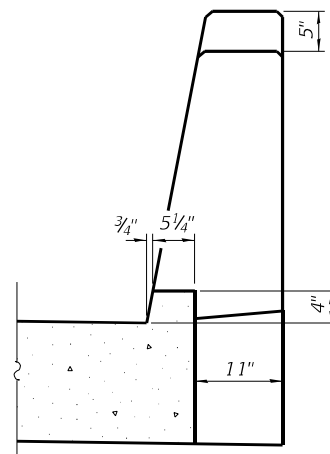
BAR a12(E)

EAST APPROACH  
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a10(E)	46	#5	19'-6"	—
a11(E)	60	#8	19'-2"	—
a12(E)	46	#5	7'-4"	—
a15(E)	46	#5	17'-5"	—
a16(E)	60	#8	17'-2"	—
b10(E)	55	#5	29'-8"	—
b11(E)	89	#9	29'-8"	—
b12(E)	8	#5	14'-8"	—
b13(E)	2	#4	14'-8"	—
d10(E)	46	#5	6'-5"	⌒
d11(E)	46	#5	8'-6"	⌒
e10(E)	20	#4	14'-8"	—
t10(E)	76	#4	9'-8"	—
w10(E)	40	#5	19'-2"	—
w12(E)	40	#5	17'-2"	—
Concrete Superstructure		Cu. Yd.	3.9	
Concrete Superstructure (Approach Slab)		Cu. Yd.	53	
Concrete Structures		Cu. Yd.	11.5	
Reinforcement Bars, Epoxy Coated		Pound	21,690	



DETAIL A



VIEW B-B

\* Cost included with Concrete Superstructure (Approach Slab).

\*\* Per manufacturer recommendations

BAIA-CIP-39CS-0 2-1-2023

(Sheet 2 of 2)

MODEL: Default  
FILE NAME: \\bs01\Projects\2021\11\082 - PTB 201+27 D3-Vigh+Various IsllWVO #8 - 15P BR PH2 Design IL-17\CADD\CADD Sheets\0460162-66L10-015-E Appr.dgn  
3/13/2024 3:05:35 PM



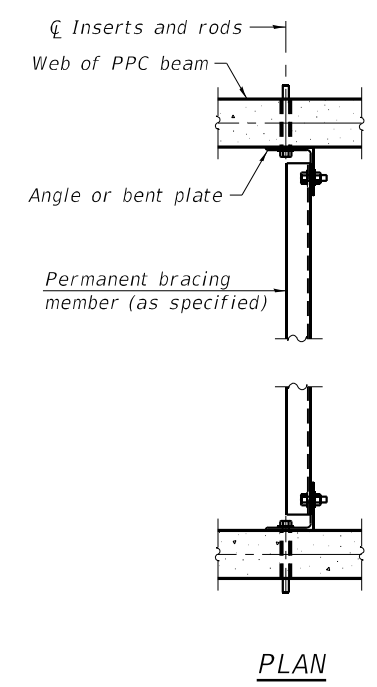
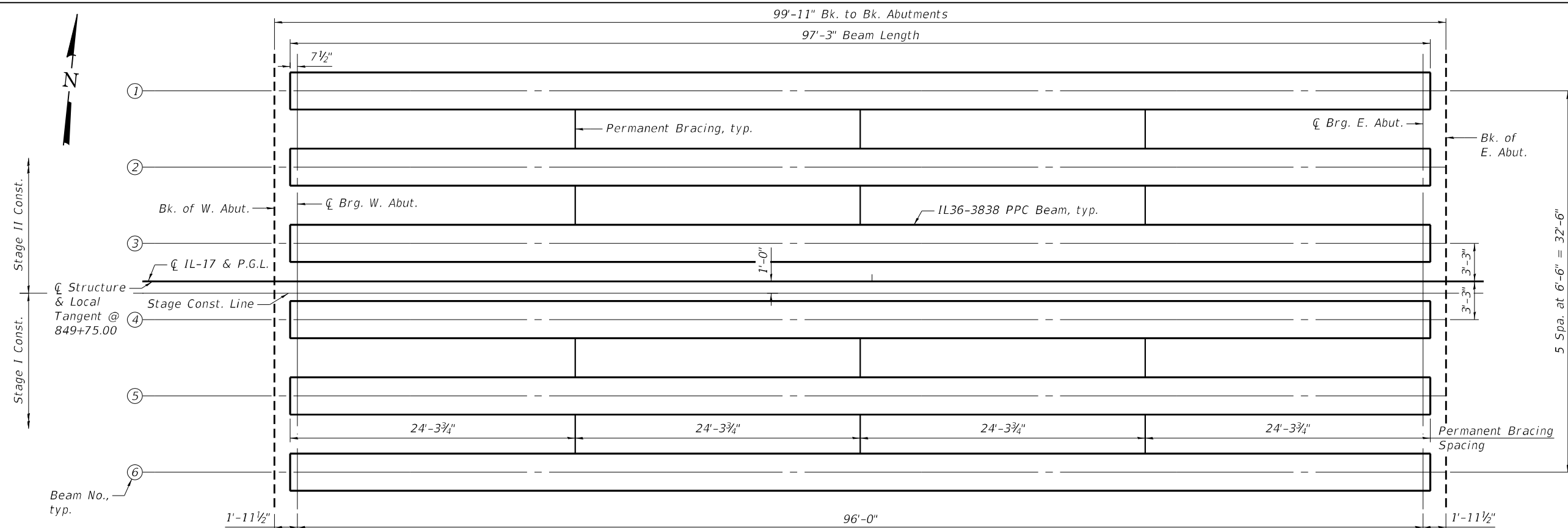
USER NAME = cstokes	DESIGNED - CFS	REVISED -
0460162-66L10-015-E Appr.dgn	CHECKED - KWB	REVISED -
PLOT SCALE =	DRAWN - CFS	REVISED -
PLOT DATE =	CHECKED - MDC	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

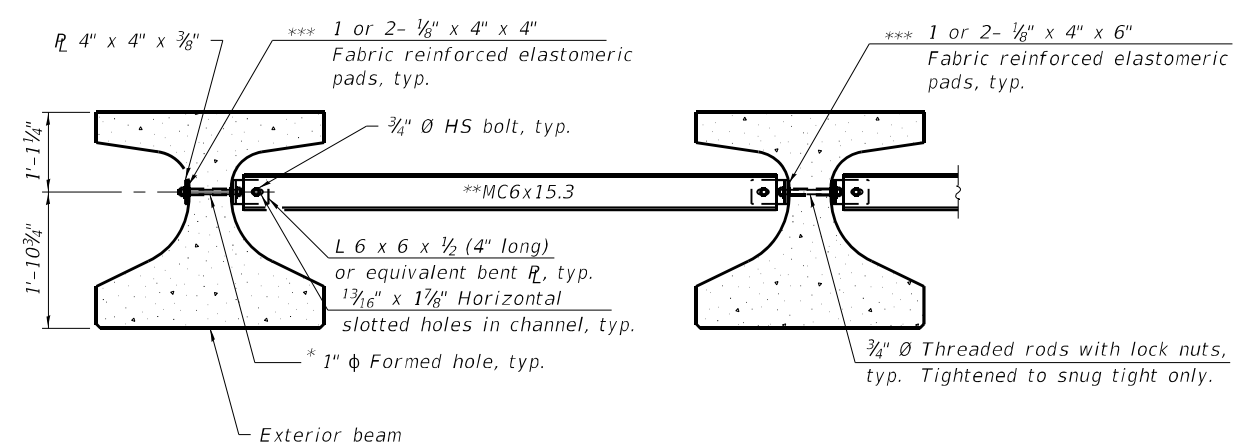
EAST BRIDGE APPROACH SLAB DETAILS  
STRUCTURE NO. 046-0162

SHEET 15 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	42
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				



FRAMING PLAN



Notes:  
 All material for bracing shall be hot dip galvanized according to AASHTO M111 unless otherwise noted.  
 Two hardened washers are required for each set of oversized holes.  
 All holes shall be 1 5/16" Ø unless otherwise noted.  
 5/16" x 3" x 3" plate washers are required over all slotted holes.  
 All bolts, threaded rods, and hardware shall be galvanized according to AASHTO M232.  
 Threaded rods shall be ASTM F 1554 Grade 55.  
 Bracing shall be installed as beams are erected and tightened as soon as possible during erection.  
 Permanent bracing shall not be paid for separately, but shall be included in the cost of Furnishing and Erecting Precast Prestressed Concrete Beams.

\* Fabricator shall locate to miss strands within permissible tolerances.  
 \*\* Alternate MC6x18 channels are permitted to facilitate material acquisition.  
 \*\*\* Place pads as necessary to provide a flat mounting surface between the steel and concrete.

PERMANENT BRACING DETAILS FOR IL36 BEAMS

INTERIOR BEAM MOMENT TABLE	
0.5 Sp. 1	
I	(in <sup>4</sup> ) 124,639
I'	(in <sup>4</sup> ) 297,192
S <sub>b</sub>	(in <sup>3</sup> ) 7,563
S <sub>b</sub> '	(in <sup>3</sup> ) 11,852
S <sub>t</sub>	(in <sup>3</sup> ) 6,385
S <sub>t</sub> '	(in <sup>3</sup> ) 27,206
DC1	(k/ft.) 1.565
M <sub>DC1</sub>	(k) 1,803
DC2	(k/ft.) 0.175
M <sub>DC2</sub>	(k) 202
DW	(k/ft.) 0.325
M <sub>DW</sub>	(k) 374
LLDF	0.548
M <sub>L + IM</sub>	(k) 1,461

I: Non-composite moment of inertia of beam section (in.<sup>4</sup>).  
 I': Composite moment of inertia of beam section (in.<sup>4</sup>).  
 S<sub>b</sub>: Non-composite section modulus for the bottom fiber of the prestressed beam (in.<sup>3</sup>).  
 S<sub>b</sub>': Composite section modulus for the bottom fiber of the prestressed beam (in.<sup>3</sup>).  
 S<sub>t</sub>: Non-composite section modulus for the top fiber of the prestressed beam (in.<sup>3</sup>).  
 S<sub>t</sub>': Composite section modulus for the top fiber of the prestressed beam (in.<sup>3</sup>).  
 DC1: Un-factored non-composite dead load (kips/ft.).  
 M<sub>DC1</sub>: Un-factored moment due to non-composite dead load (kip-ft.).  
 DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).  
 M<sub>DC2</sub>: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).  
 DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).  
 M<sub>DW</sub>: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).  
 LLDF: Live Load Distribution Factor for moment and shear computed according to Article 4.6.2.2 and further IDOT provisions.  
 M<sub>L + IM</sub>: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).  
 OCF: Obtuse Correction Factor computed according to Article 4.6.2.2.3c or as further simplified by IDOT provisions.  
 R<sub>DC1</sub>: Un-factored reaction due to non-composite dead load (kip).  
 R<sub>DC2</sub>: Un-factored reaction due to long-term composite (superimposed excluding future wearing surface) dead load (kip).  
 R<sub>DW</sub>: Un-factored reaction due to long-term composite (superimposed future wearing surface only) dead load (kip).  
 R<sub>L</sub>: Un-factored live load reaction (kip).  
 R<sub>IM</sub>: Un-factored dynamic load allowance (impact) (kip).  
 R<sub>Total (Strength I)(Impact)</sub>: Total factored reaction including dynamic load allowance (impact) (kip).  
 R<sub>Total (Strength I)(No Impact)</sub>: Total factored reaction not including dynamic load allowance (impact) (kip).

INTERIOR BEAM REACTION TABLE	
Abutments	
LLDF	0.716
OCF	1.000
R <sub>DC1</sub>	(k) 75.1
R <sub>DC2</sub>	(k) 8.4
R <sub>DW</sub>	(k) 15.6
R <sub>L + IM</sub>	(k) 83.9
R <sub>Total (Strength I)(Impact)</sub>	(k) 274.6
R <sub>Total (Strength I)(No Impact)</sub>	(k) 247.7

MODEL: Default  
 FILE NAME: \\bs01\Projects\2021\11\082 - PTB 201+27 D3-Vigh-Variou I&I\WVO #8 - 15P BR PH2 Design IL-17\CADD\CADD Sheets\0460162-66L10-016-Framing.dgn  
 3/13/2024 3:05:37 PM



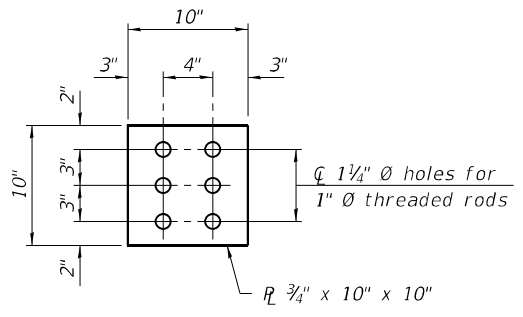
USER NAME = cstokes	DESIGNED - CFS	REVISED -
0460162-66L10-016-Framing.dgn	CHECKED - KWB	REVISED -
PLOT SCALE =	DRAWN - CFS	REVISED -
PLOT DATE =	CHECKED - MDC	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

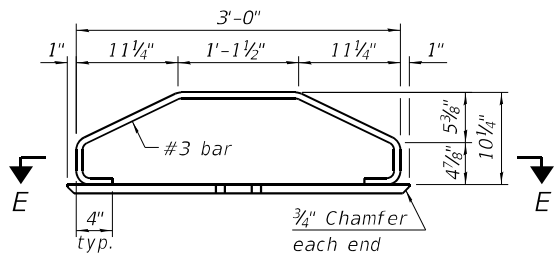
FRAMING PLAN  
 STRUCTURE NO. 046-0162  
 SHEET 16 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	43
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				

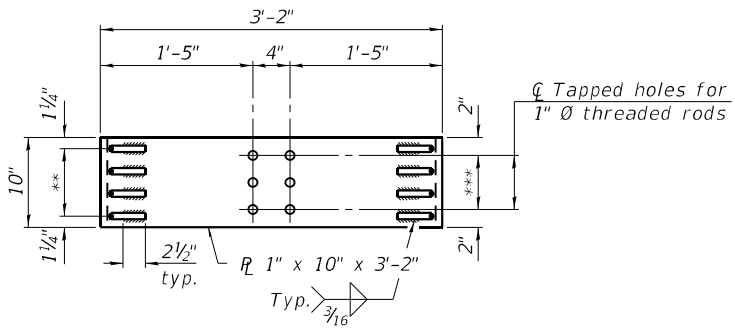




PLAN - TOP PLATE

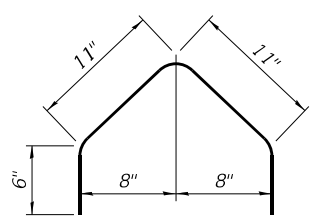


ELEVATION - BOTTOM PLATE ASSEMBLY

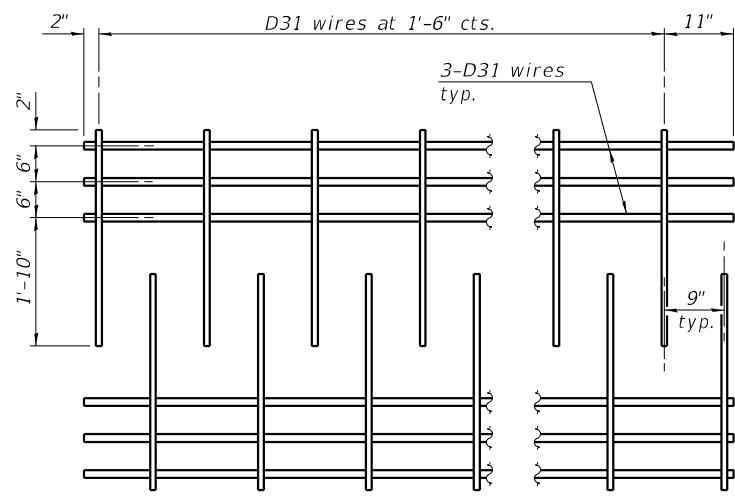


SECTION E-E

\*\* 3 Spaces at 2 1/2" = 7 1/2"  
 \*\*\* 2 Spaces at 3" = 6"

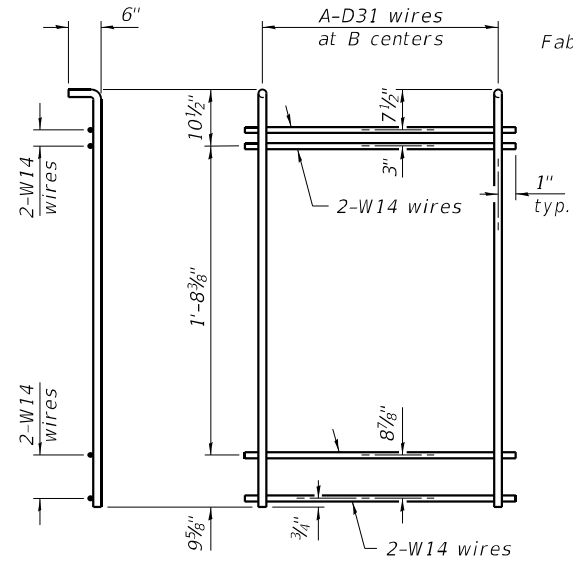


BAR G1(E)



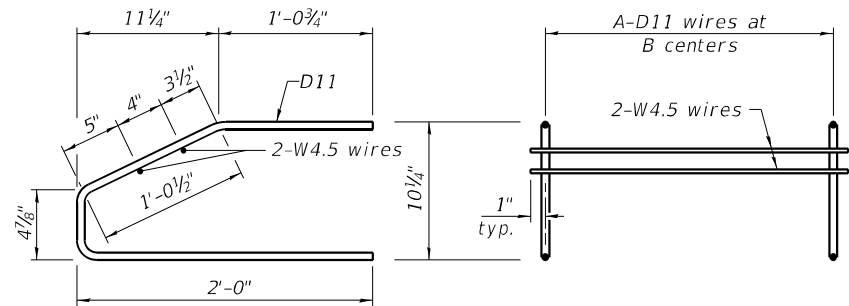
M1 WWR DETAIL

When multiple sheets of M1 WWR are required along the beam length, #5(E) bars (5'-0" long) shall be used to splice the longitudinal D31 wires together (Min. Lap 2'-2").



M5 THRU M7 WWR DETAIL

(See Table of Dimensions)



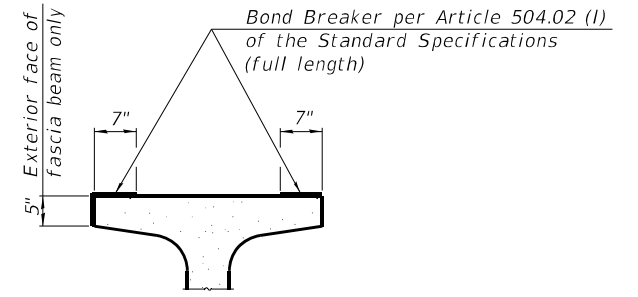
M2 THRU M4 WWR DETAIL

(See Table of Dimensions)

TABLE OF DIMENSIONS

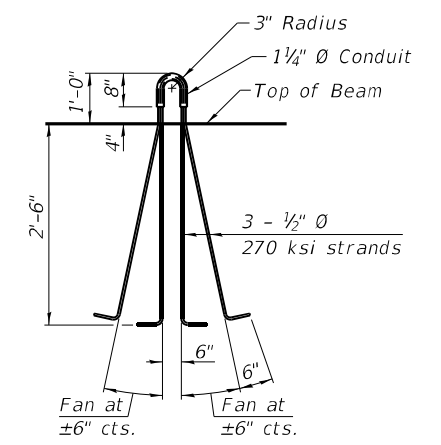
(The WWR designs assume grade 60. If necessary, this permits the fabricator to directly substitute grade 60 rebar as detailed in the Manual for Fabrication of Precast Prestressed Concrete Products.)

WWR	SPAN	
	A	B
M2	9	3"
M3	6	6"
M4	28	1'-6"
M5	9	3"
M6	20	6"
M7	71	1'-0"



SECTION THRU TOP FLANGE

(Showing limits of bond breaker)



LIFTING LOOP DETAIL

NOTES

- Inserts for 3/4" Ø threaded dowel rods, when specified, are to be two strut, ferrule type for interior beams and single ferrule, flared loop type for exterior beams.
- Prestressing steel shall be uncoated high strength, low relaxation 7-wire strand, Grade 270. The nominal diameter for beam strands shall be 0.6" and the nominal cross-sectional area shall be 0.217 sq. in. The nominal diameter for lifting loops shall be 1/2" and the nominal cross sectional area shall be 0.153 sq. in.
- The beams shall have a final concrete compressive strength, f'c, of 8500 psi and a release concrete compressive strength, f'ci, of 6500 psi.
- A minimum 2 1/2" Ø lifting pin shall be used to engage the lifting loops during handling.
- The top and bottom plates shall be AASHTO M270 Grade 50.
- The top plates and bottom plate assemblies shall be galvanized according to AASHTO M111.
- The threaded rods, nuts and washers shall be galvanized according to AASHTO M232.
- Threaded rods shall be ASTM F 1554 Grade 55.
- Welded Wire Reinforcement (WWR) shall conform to ASTM A884 with a Class A, Type 1 epoxy coating or ASTM A1060, Table 3 galvanized coating.

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete Beams, IL36	Ft.	583.5

MODEL: Default FILE NAME: \\bs01\Projects\2021\11\082 - PTB 201+27 D3-Vigh-Variou I&I\W0 #8 - 15P BR PH2 Design IL-17\CADD\CADD Sheets\0460162-66L10-018-Beam Details.dgn 3/13/2024 3:05:40 PM

IL36-3838D

2-1-2023



USER NAME = cstokes	DESIGNED - CFS	REVISED -
0460162-66L10-018-Beam Details.dgn	CHECKED - KWB	REVISED -
PLOT SCALE =	DRAWN - CFS	REVISED -
PLOT DATE =	CHECKED - MDC	REVISED -

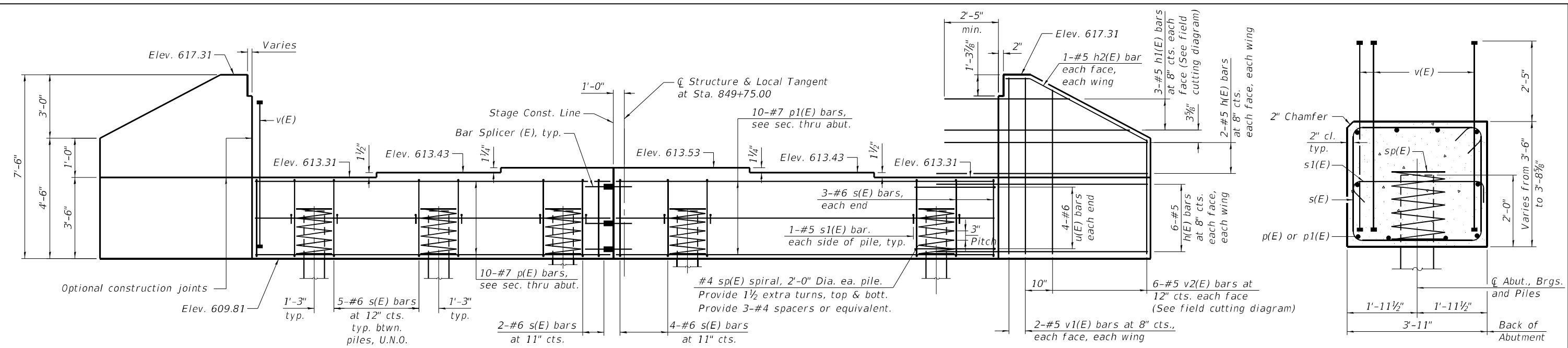
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

IL36 BEAM DETAILS  
 STRUCTURE NO. 046-0162

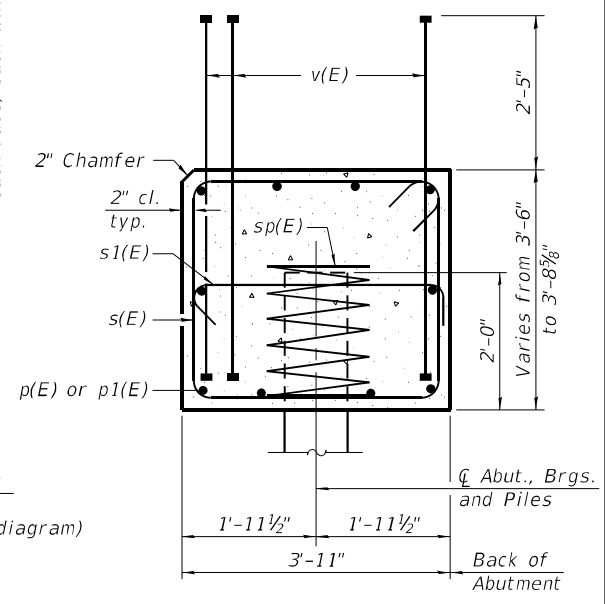
SHEET 18 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	45
CONTRACT NO. 66L10			ILLINOIS FED. AID PROJECT	

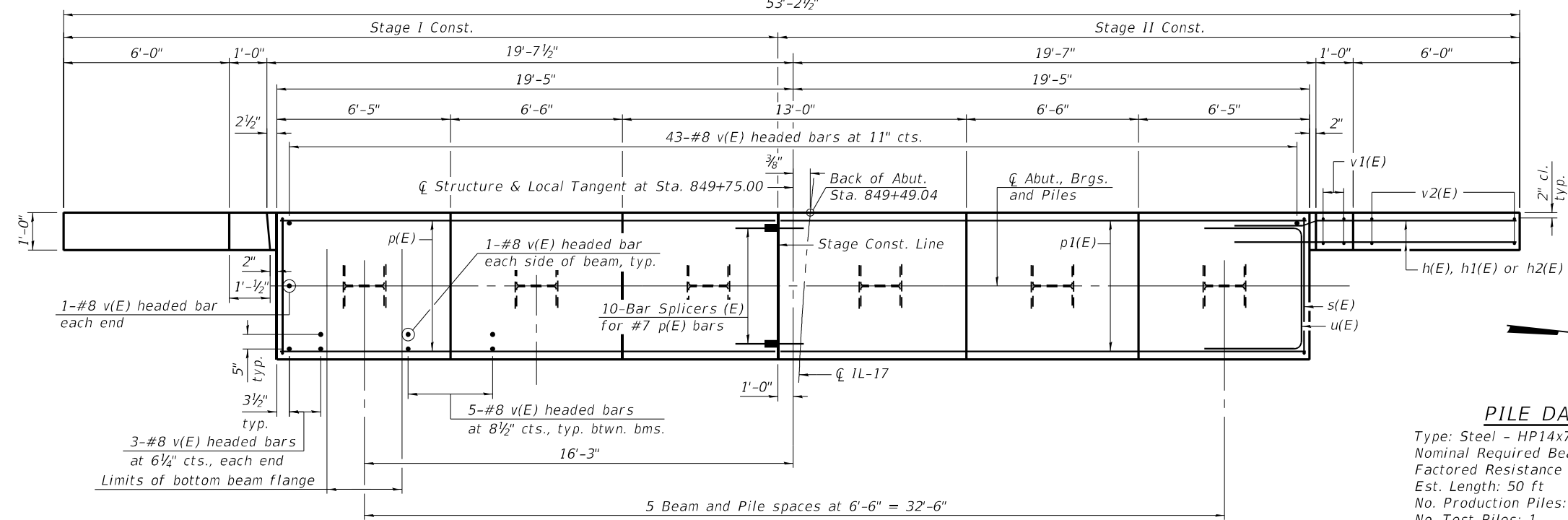
MODEL: Default  
 FILE NAME: I:\b501\Projects\2021\11\082 - PTB 201+27 D3-Wight\Various\1811W00 #8 - 15P BR PH2 Design IL-17\CADD\CADD Sheets\0460162-66L10-019-W Abut.dgn  
 4/29/2024 9:24:36 AM



**ELEVATION**



**SEC. THRU ABUT.**



**PLAN**

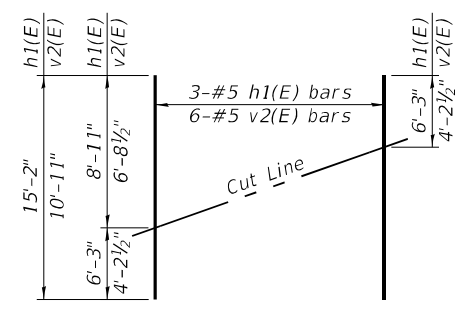
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	32	#5	9'-3"	—
h1(E)	6	#5	15'-2"	—
h2(E)	4	#5	7'-2"	—
p(E)	10	#7	18'-1"	—
p1(E)	10	#7	20'-1"	—
s(E)	32	#6	14'-10"	□
s1(E)	12	#5	4'-7"	┌┐
sp(E)	6	#4	2'-0"	≡≡≡
u(E)	8	#6	12'-1"	┌┐
v(E)	88	#8	5'-8"	—
v1(E)	8	#5	7'-2"	—
v2(E)	12	#5	10'-11"	—
Structure Excavation	Cu. Yd.		180	
Concrete Structures	Cu. Yd.		23.7	
Reinforcement Bars, Epoxy Coated	Pound		3,940	
Furnishing Steel Piles HP14x73	Foot		250	
Driving Piles HP14x73	Foot		250	
Test Pile Steel HP14x73	Each		1	
Pile Shoes	Each		6	

\* Length is height of spiral.

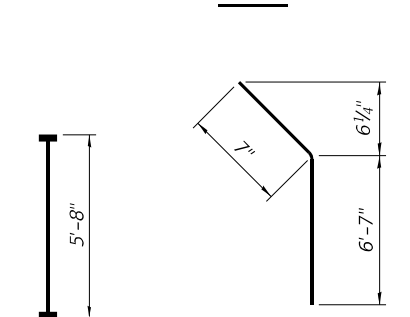
**PILE DATA**

Type: Steel - HP14x73 with Pile Shoes  
 Nominal Required Bearing: 578 kips  
 Factored Resistance Available: 318 kips  
 Est. Length: 50 ft  
 No. Production Piles: 5  
 No. Test Piles: 1  
 No. Pile Shoes: 6

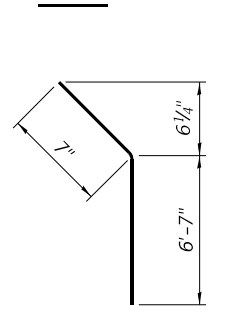


**FIELD CUTTING DIAGRAM**

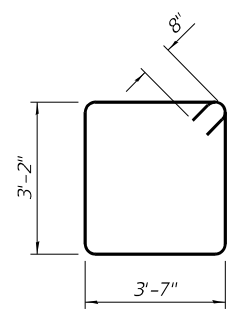
Order h1(E) and v2(E) full length. Cut as shown and use remainder of bars in opposite wing.



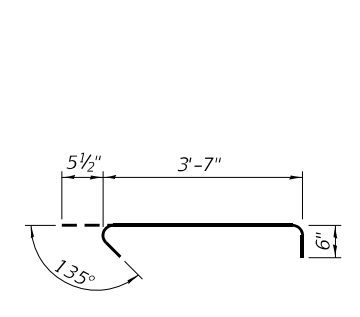
**BAR v(E)**  
(Headed)  
(176-#8 Bar Terminators)



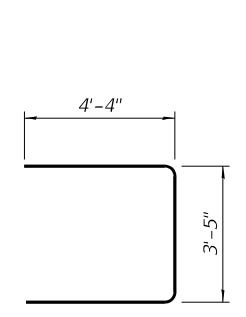
**BAR h2(E)**



**BAR s(E)**



**BAR s1(E)**



**BAR u(E)**

Notes:  
 Pour steps monolithically with cap.  
 Bar terminators, paid for separately. See Total Bill of Material.  
 See sheet 21 of 25 for details of piles.  
 See sheet 23 of 25 for bar splicer details.

AI-CBS-0

6-15-2019



USER NAME = JCrav	DESIGNED - CFS	REVISED -
0460162-66L10-019-W Abut.dgn	CHECKED - KWB	REVISED -
PLOT SCALE =	DRAWN - CFS	REVISED -
PLOT DATE =	CHECKED - MDC	REVISED -

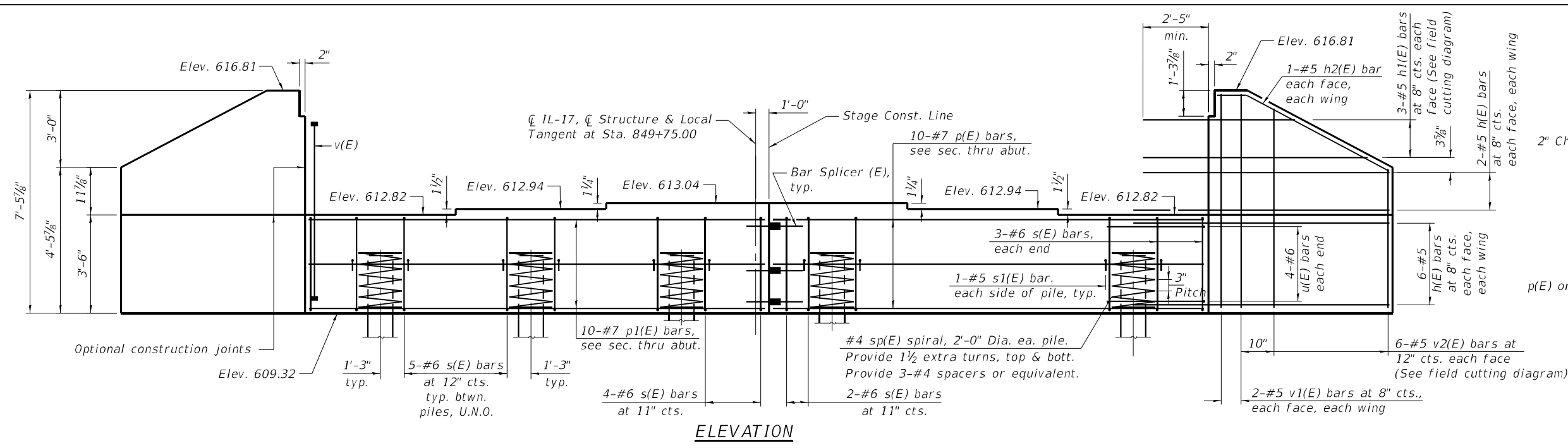
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

WEST ABUTMENT  
 STRUCTURE NO. 046-0162

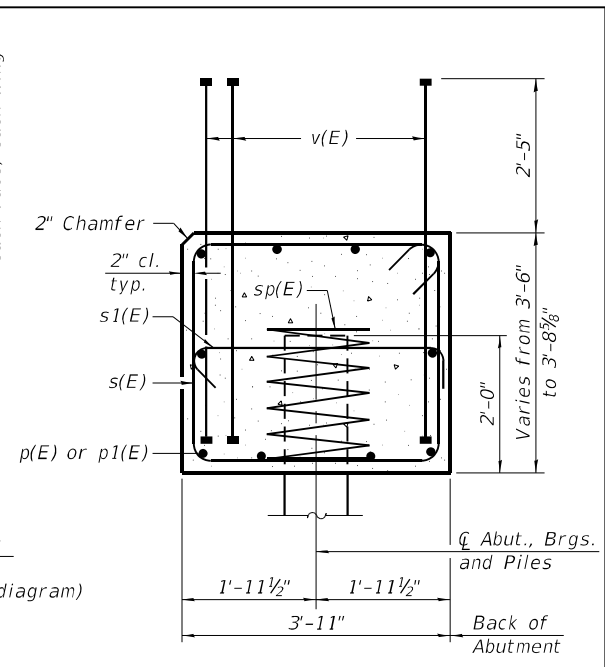
SHEET 19 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	46
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				

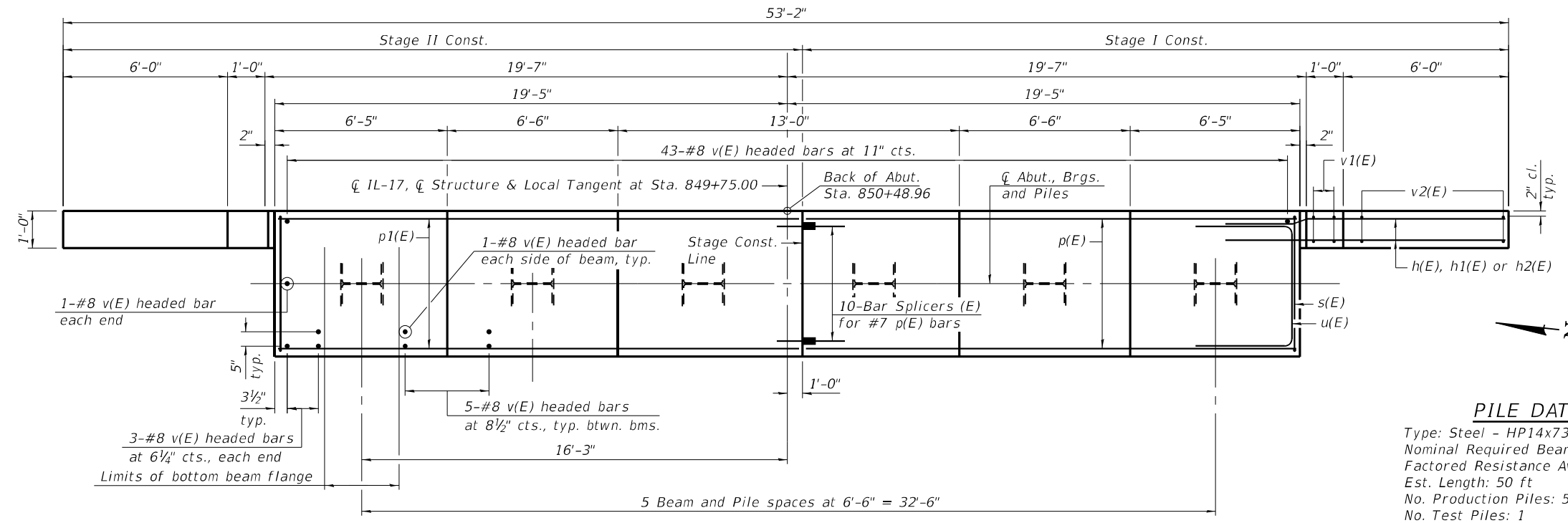
MODEL: Default  
 FILE NAME: I:\b501\Projects\2021\11\082 - PTB 201+27 D3-Wight\Various\1811WVO #8 - 15P BR PH2 Design IL-17\CADD\CADD Sheets\0460162-66L10-020-E Abut.dgn  
 4/29/2024 9:25:20 AM



**ELEVATION**



**SEC. THRU ABUT.**



**PLAN**

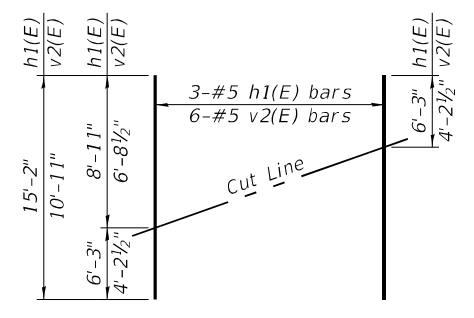
**BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
h(E)	32	#5	9'-3"	—
h1(E)	6	#5	15'-2"	—
h2(E)	4	#5	7'-2"	—
p(E)	10	#7	18'-1"	—
p1(E)	10	#7	20'-1"	—
s(E)	32	#6	14'-10"	□
s1(E)	12	#5	4'-7"	┌┐
sp(E)	6	#4	2'-0"	≡≡≡
u(E)	8	#6	12'-1"	┌┐
v(E)	88	#8	5'-8"	—
v1(E)	8	#5	7'-2"	—
v2(E)	12	#5	10'-11"	—
Structure Excavation	Cu. Yd.		179	
Concrete Structures	Cu. Yd.		23.7	
Reinforcement Bars, Epoxy Coated	Pound		3,940	
Furnishing Steel Piles HP14x73	Foot		250	
Driving Piles HP14x73	Foot		250	
Test Pile Steel HP14x73	Each		1	
Pile Shoes	Each		6	

\* Length is height of spiral.

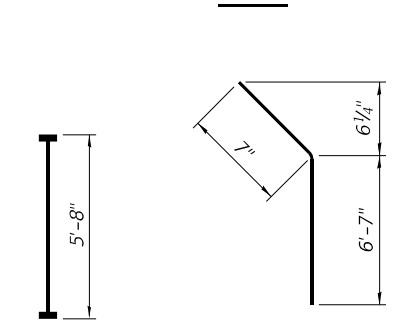
**PILE DATA**

Type: Steel - HP14x73 with Pile Shoes  
 Nominal Required Bearing: 578 kips  
 Factored Resistance Available: 318 kips  
 Est. Length: 50 ft  
 No. Production Piles: 5  
 No. Test Piles: 1  
 No. Pile Shoes: 6

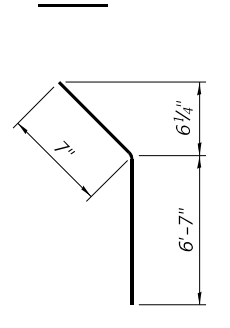


**FIELD CUTTING DIAGRAM**

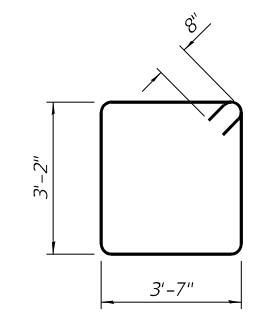
Order h1(E) and v2(E) full length. Cut as shown and use remainder of bars in opposite wing.



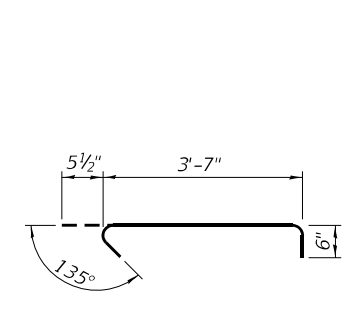
**BAR v(E)**  
(Headed)  
(176-#8 Bar Terminators)



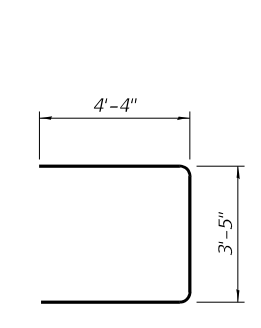
**BAR h2(E)**



**BAR s(E)**



**BAR s1(E)**



**BAR u(E)**

Notes:  
 Pour steps monolithically with cap.  
 Bar terminators, paid for separately. See Total Bill of Material.  
 See sheet 21 of 25 for details of piles.  
 See sheet 23 of 25 for bar splicer details.

AI-CBS-0

6-15-2019



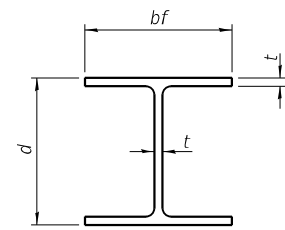
USER NAME = JCray	DESIGNED - CFS	REVISED -
0460162-66L10-020-E Abut.dgn	CHECKED - KWB	REVISED -
PLOT SCALE =	DRAWN - CFS	REVISED -
PLOT DATE =	CHECKED - MDC	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

**EAST ABUTMENT  
 STRUCTURE NO. 046-0162**

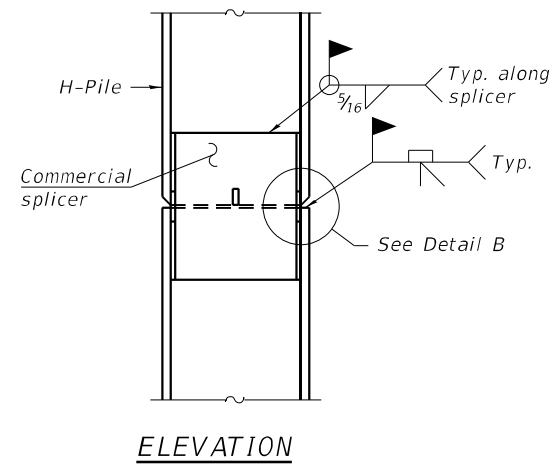
SHEET 20 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	47
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				

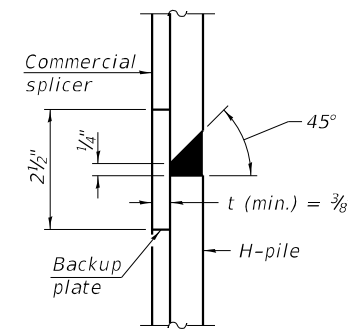


**STEEL PILE TABLE**

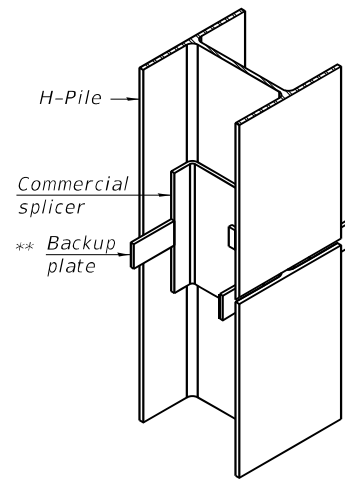
Designation	Depth d	Flange width bf	Web and Flange thickness t	Encasement diameter A
HP 14x117	14 1/4"	14 7/8"	1 3/16"	30"
x102	14"	14 3/4"	1 1/16"	30"
x89	13 3/8"	14 3/4"	5/8"	30"
x73	13 3/8"	14 3/8"	1/2"	30"
HP 12x84	12 1/4"	12 1/4"	1 1/16"	24"
x74	12 1/8"	12 1/4"	5/8"	24"
x63	12"	12 1/8"	1/2"	24"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



**ELEVATION**

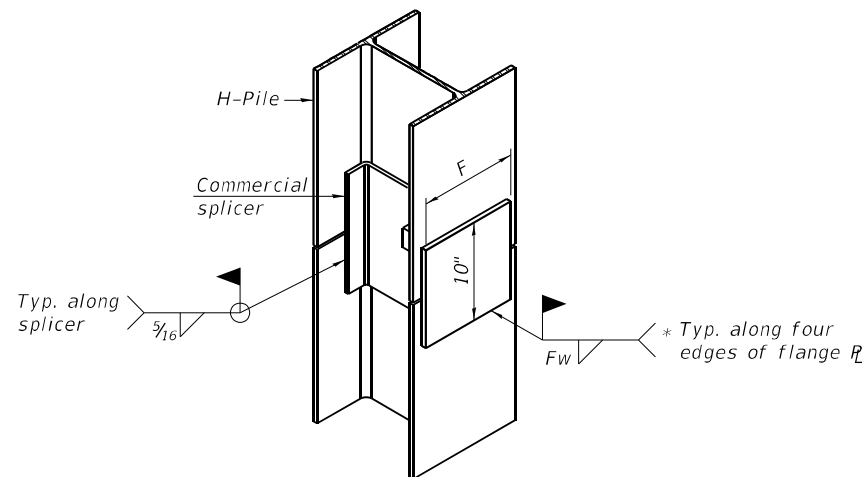


**DETAIL "B"**



**ISOMETRIC VIEW**

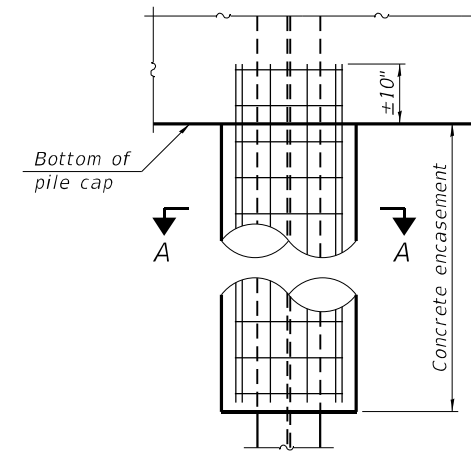
**WELDED COMMERCIAL SPLICE**



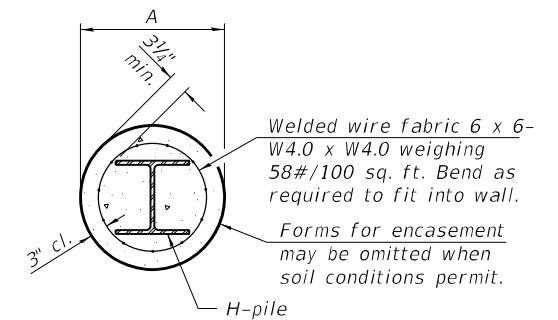
**ISOMETRIC VIEW**

**WELDED COMMERCIAL SPLICE ALTERNATE**

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

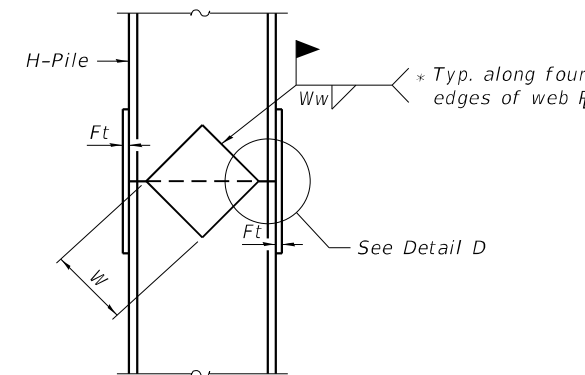


**ELEVATION**

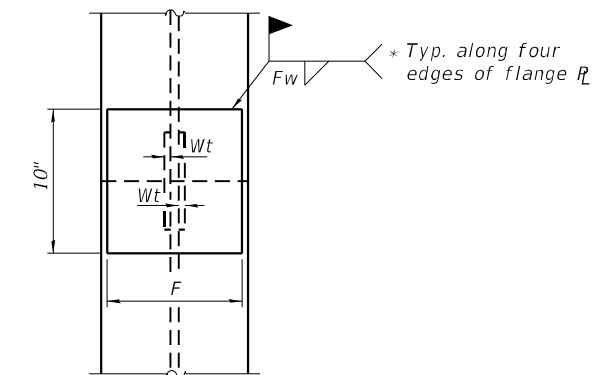


**SECTION A-A**

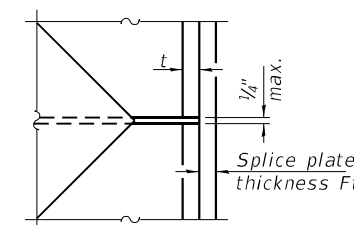
**INDIVIDUAL PILE CONCRETE ENCASUREMENT**  
(when specified)



**ELEVATION**



**END VIEW**



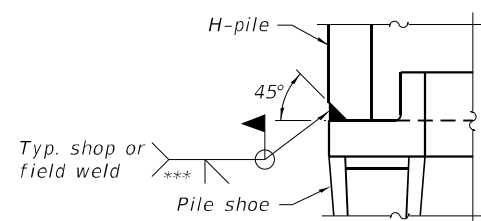
**DETAIL D**

**WELDED PLATE FIELD SPLICE**

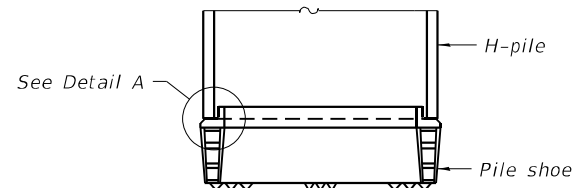
Designation	F	Ft	Fw	W	Wt	Ww
HP 14x117	12 1/2"	1"	7/8"	7 3/4"	5/8"	1/2"
x102	12 1/2"	7/8"	3/4"	7 3/4"	5/8"	1/2"
x89	12 1/2"	3/4"	1 1/16"	7 3/4"	5/8"	1/2"
x73	12 1/2"	5/8"	9/16"	7 3/4"	5/8"	1/2"
HP 12x84	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x74	10"	7/8"	1 1/16"	6 1/2"	5/8"	1/2"
x63	10"	5/8"	1/2"	6 1/2"	1/2"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

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

**SHOE ATTACHMENT**



**DETAIL A**



**ELEVATION**

F-HP 2-1-2023



USER NAME = cstokes	DESIGNED - CFS	REVISED -
0460162-66L10-021-Pile.dgn	CHECKED - KWB	REVISED -
PLOT SCALE =	DRAWN - CFS	REVISED -
PLOT DATE =	CHECKED - MDC	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

HP PILE DETAILS  
STRUCTURE NO. 046-0162

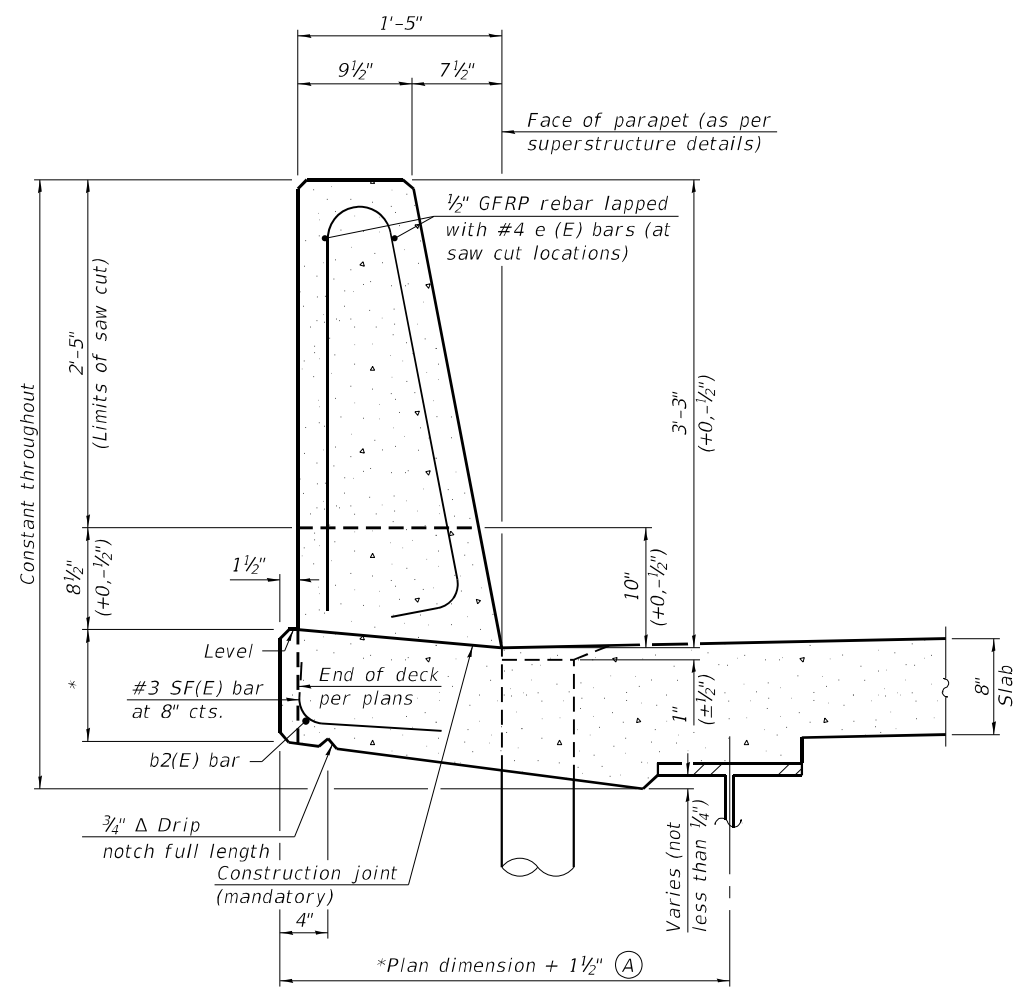
SHEET 21 OF 25 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	48
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				

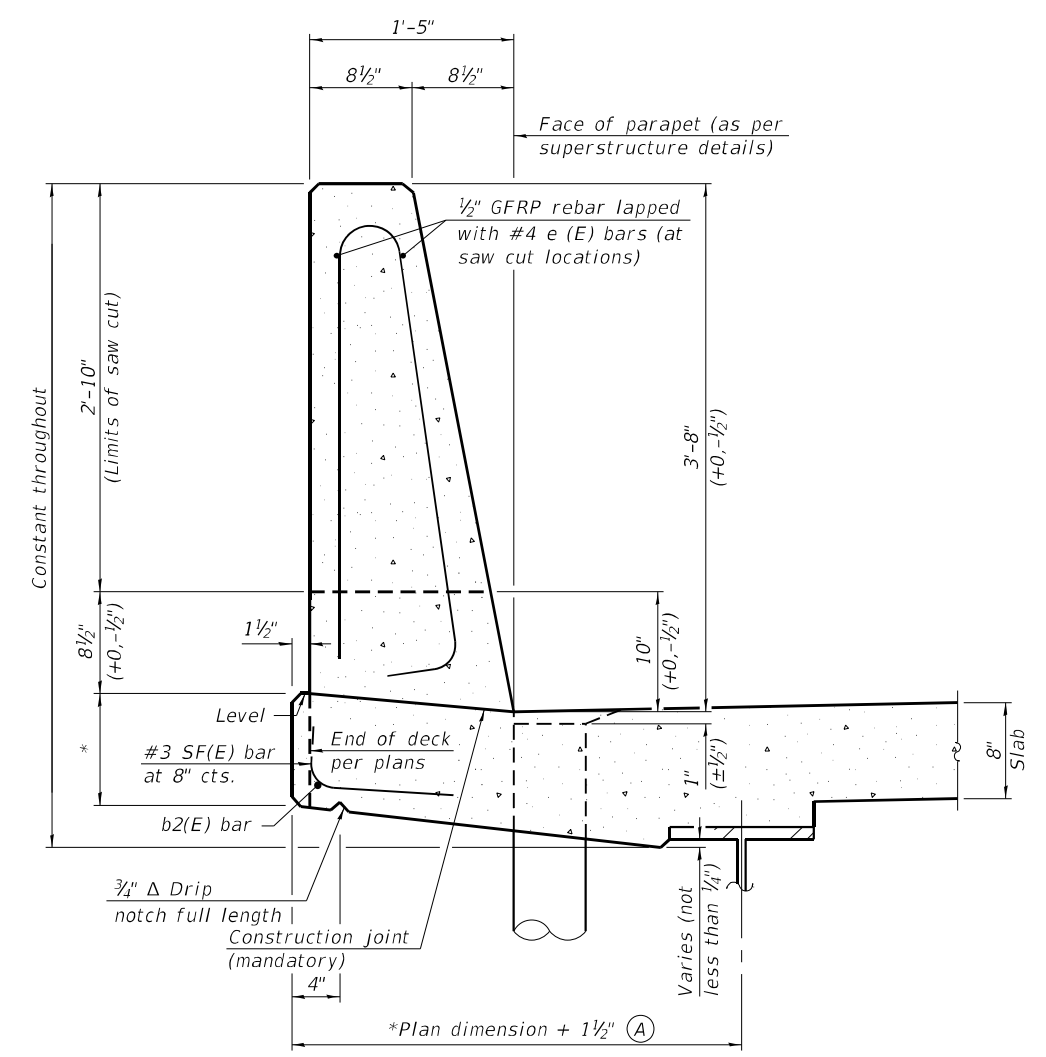
MODEL: Default FILE NAME: \\bs01\Projects\2021\11082 - PTB 201+27 D3-Vigh-Variou IsllWVO #8 - 15P BR PH2 Design IL-17\CADD\CADD Sheets\0460162-66L10-021-Pile.dgn 3/13/2024 3:05:44 PM



MODEL: Default  
 FILE NAME: \\b501\Projects\2021\11L082 - PTB 201+27 D3-Vigh-Variou I&I\W0 #8 - 15P BR PH2 Design IL-17\CADD\CADD Sheets\0460162-66L10-022-Slipform.dgn  
 3/13/2024 3:05:45 PM

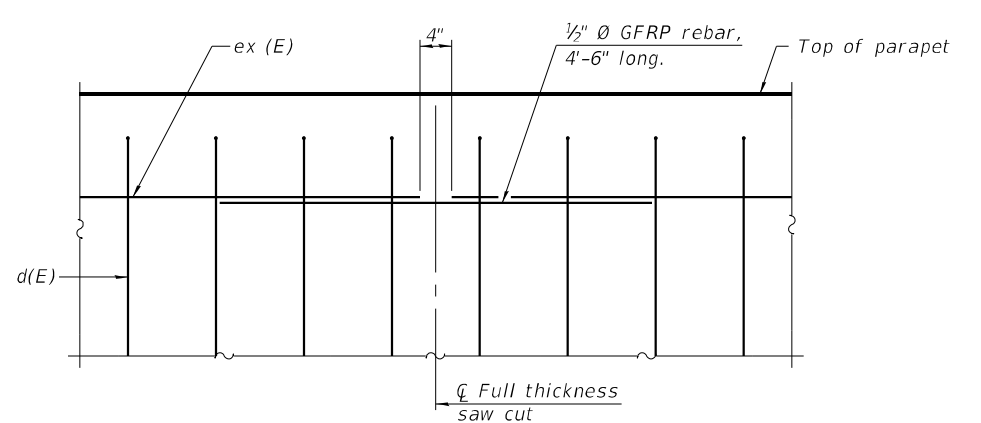
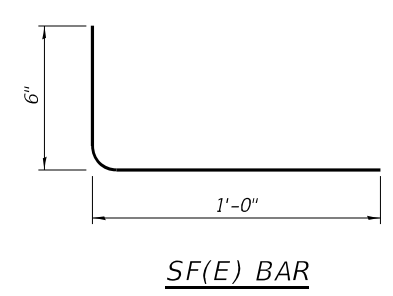


**39" CONSTANT-SLOPE PARAPET SECTION**  
 (Showing dimensions, d(E), and 1/2" Ø GFRP rebar)



**44" CONSTANT-SLOPE PARAPET SECTION**  
 (Showing dimensions, d(E), and 1/2" Ø GFRP rebar)

\*See Superstructure Details.



**GFRP REBAR STIFFENING DETAIL**  
 (Place as shown in parapet section at each parapet joint location.)

Notes:  
 All dimensions shall remain the same as shown on superstructure details, except dimension A which is to be revised as shown. Additional concrete needed to revise dimension A = 0.00348 cu. yds./ft. for 39" and 44" parapets.  
 Place full depth aluminum sheets as shown on superstructure details.  
 Replace all cork joint filler locations with a full thickness saw cut.  
 Steel superstructure shown. Other superstructure types similar.

SFP 39-44

11-1-2022

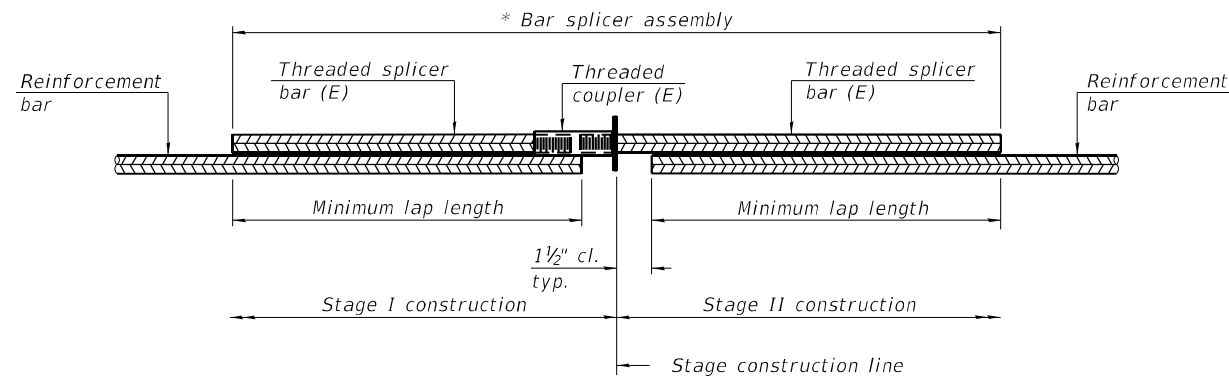


USER NAME = cstokes	DESIGNED - CFS	REVISED -
0460162-66L10-022-Slipform.dgn	CHECKED - KWB	REVISED -
PLOT SCALE =	DRAWN - CFS	REVISED -
PLOT DATE =	CHECKED - MDC	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CONCRETE PARAPET SLIPFORMING OPTION  
 STRUCTURE NO. 046-0162

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	49
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				



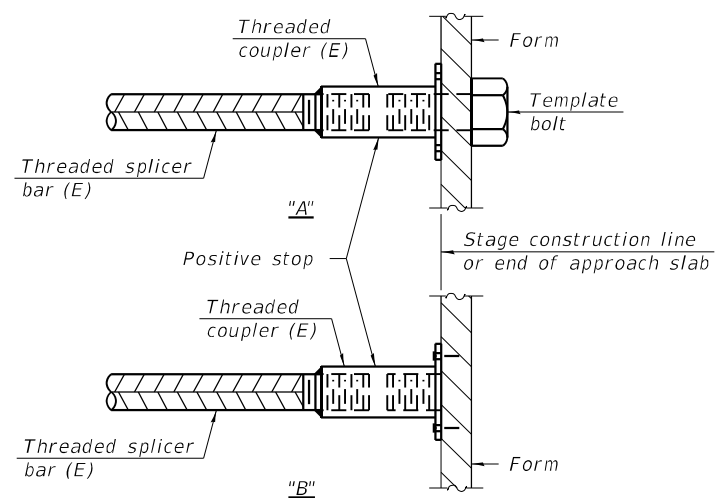
**STANDARD BAR SPLICER ASSEMBLY PLAN**

Only bar splicer assemblies as presented on the approved QPL list may be used.

Threaded splicer bar length = min. lap length + 1 1/2" + thread length

\* Epoxy not required on Bar Splicer Assembly components used in conjunction with black bars.

Location	Bar size	No. assemblies required	Minimum lap length
Top of Deck	#5	164	3'-0"
Bottom of Deck	#5	110	3'-6"
End Diaphragm	#6	8	4'-0"
Top of Appr. Slab	#5	92	3'-4"
Bottom of Appr. Slab	#8	120	4'-9"
Appr. Footing	#5	80	3'-2"
Abut. Cap	#7	20	5'-0"

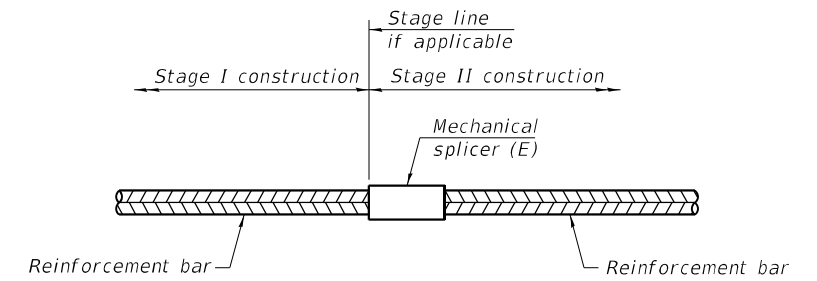


**INSTALLATION AND SETTING METHODS**

"A" : Set bar splicer assembly by means of a template bolt.

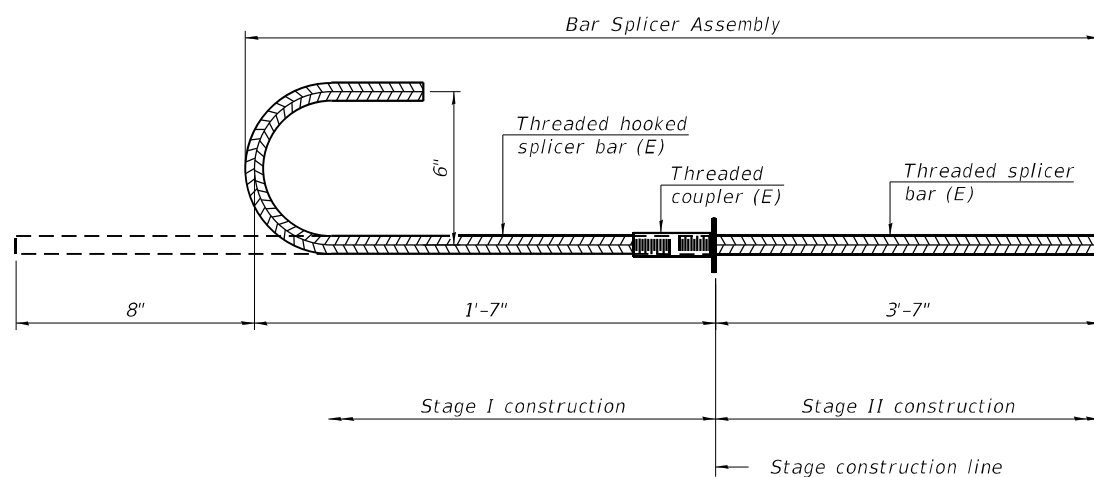
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



**STANDARD MECHANICAL SPLICER**

Location	Bar size	No. assemblies required

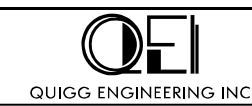


**BAR SPLICER ASSEMBLY FOR #6 BAR IN END DIAPHRAGMS**

(At Stage Construction Line)  
(No. of Assemblies Required = 4)

Notes:  
Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.  
All reinforcement shall be lapped and tied to the splicer bars.  
Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.  
See approved list of bar splicer assemblies and mechanical splicers for alternatives.

MODEL: Default  
FILE NAME: \\bs01\Projects\2021\11\082 - PTB 201+27 D3-Vigh-Variou IsllWVO #8 - 15P BR PH2 Design IL-17\CADD\CADD Sheets\0460162-66L10-023-Splicer.dgn  
3/13/2024 3:05:46 PM



USER NAME = cstokes	DESIGNED - CFS	REVISED -
0460162-66L10-023-Splicer.dgn	CHECKED - KWB	REVISED -
PLOT SCALE =	DRAWN - CFS	REVISED -
PLOT DATE =	CHECKED - MDC	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

BAR SPLICER ASSEMBLY AND MECHANICAL SPLICER DETAILS  
STRUCTURE NO. 046-0162

SHEET 23 OF 25 SHEETS

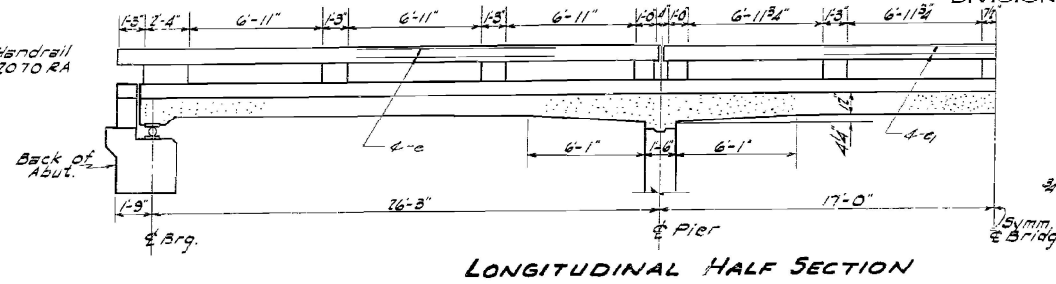
F.A.P. RTE. 41	SECTION (13)BR-2	COUNTY KANKAKEE	TOTAL SHEETS 79	SHEET NO. 50
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				



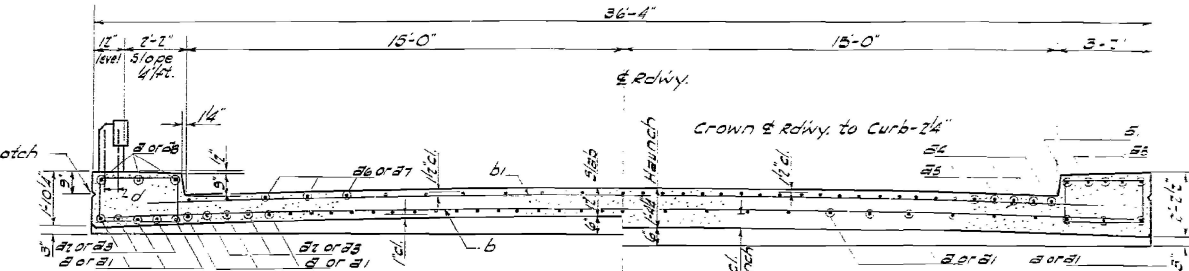




Concrete Handrail  
Standard 2070 RA  
Type 3B

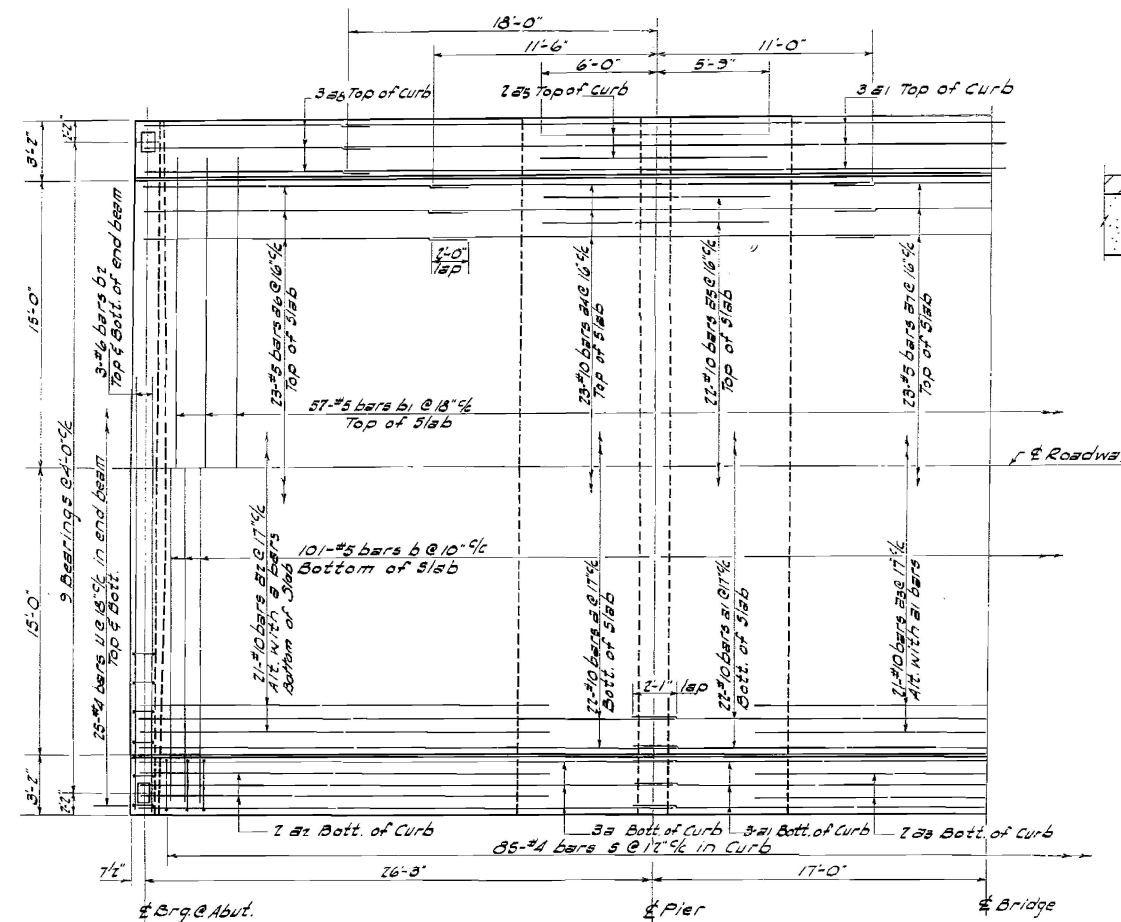


LONGITUDINAL HALF SECTION



HALF SECTION NEAR SPANS

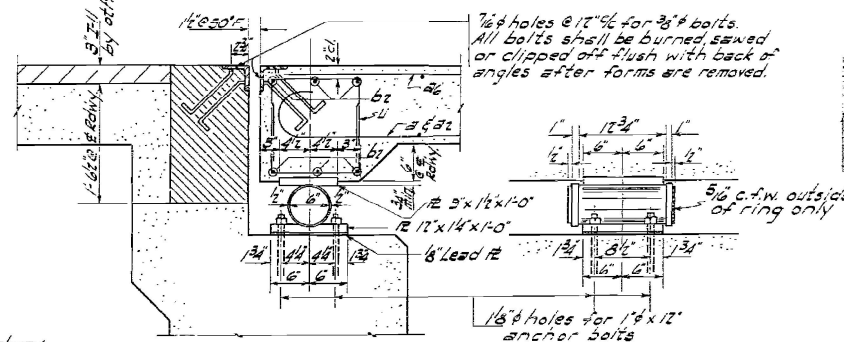
HALF SECTION NEAR PIER



SECTION AT ABUTMENT

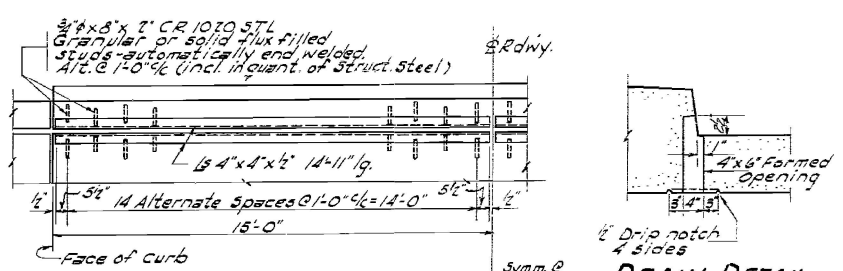
ROLLER DETAIL

SECTION AT PIER



PLAN-EXPANSION GUARD

DRAIN DETAIL

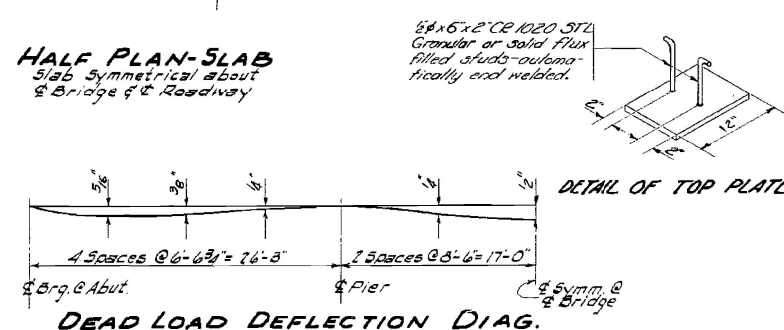


BILL OF MATERIAL-SUPERSTR.

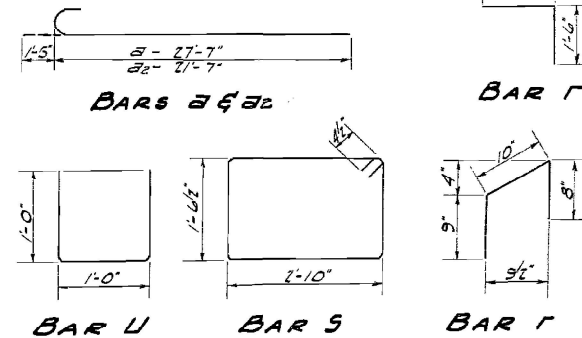
BAR	No.	SIZE	LENGTH	SHAPE
5	56	#10	29'-0"	C
7	40	#10	36'-0"	C
5c	50	#10	28'-0"	C
5b	25	#10	24'-0"	C
5d	46	#10	22'-6"	C
35	32	#10	11'-9"	C
36	46	#8	17'-0"	C
27	28	#8	16'-0"	C
28	12	#10	10'-0"	C
6	101	#8	34'-0"	C
b1	37	#8	37'-0"	C
6c	12	#6	35'-9"	C
4	100	#4	3'-0"	U
5	170	#4	9'-6"	C
e	16	#5	20'-8"	C
e1	16	#5	17'-2"	C
f	56	#4	2'-3"	A
f1	12	#4	3'-0"	C
d	108	#5	2'-9"	C

Class X Concrete CUYOS 1491  
Handrail Concrete CUYOS 43  
Reinforcement Bars 165 37970  
Structural Steel 165 6200

HALF PLAN-SLAB  
Slab Symmetrical about  
Bridge & Roadway



DETAIL OF TOP PLATE



SUPERSTRUCTURE DETAILS  
S.B.I.R.T. 17 SEC. 13-BR  
KANKAKEE COUNTY  
STATION 849+99

DESIGNED: Robert A. Kowal  
CHECKED: [Signature]  
DRAWN: J. Sandoval  
CHECKED: G.R.  
EXAMINED: [Signature] DEC. 9 1958  
PASSED: [Signature]  
APPROVED: [Signature] CHIEF HIGHWAY ENGINEER

FOR INFORMATION ONLY

Wight

USER NAME = tbarker	DESIGNED - TJB	REVISED -
PLOT SCALE = 0.16666633 / in.	DRAWN - TJB	REVISED -
PLOT DATE = 3/7/2024	CHECKED - JNH	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

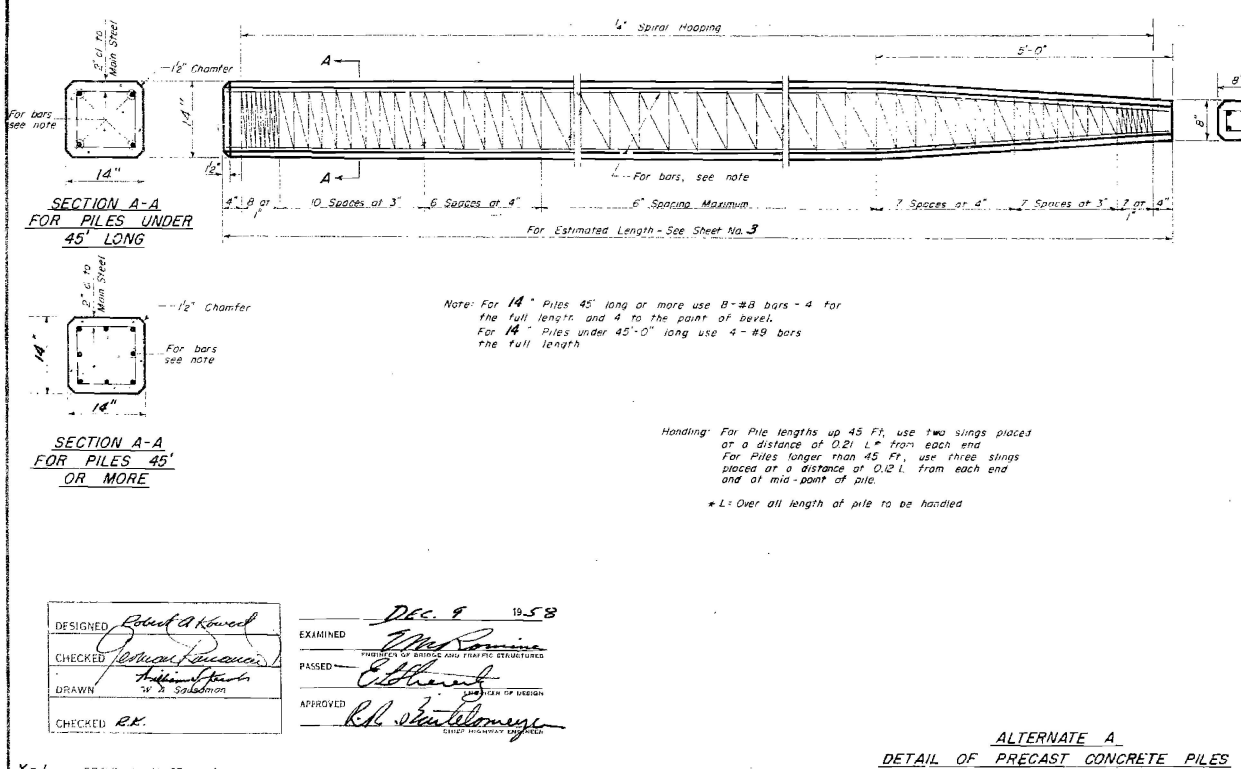
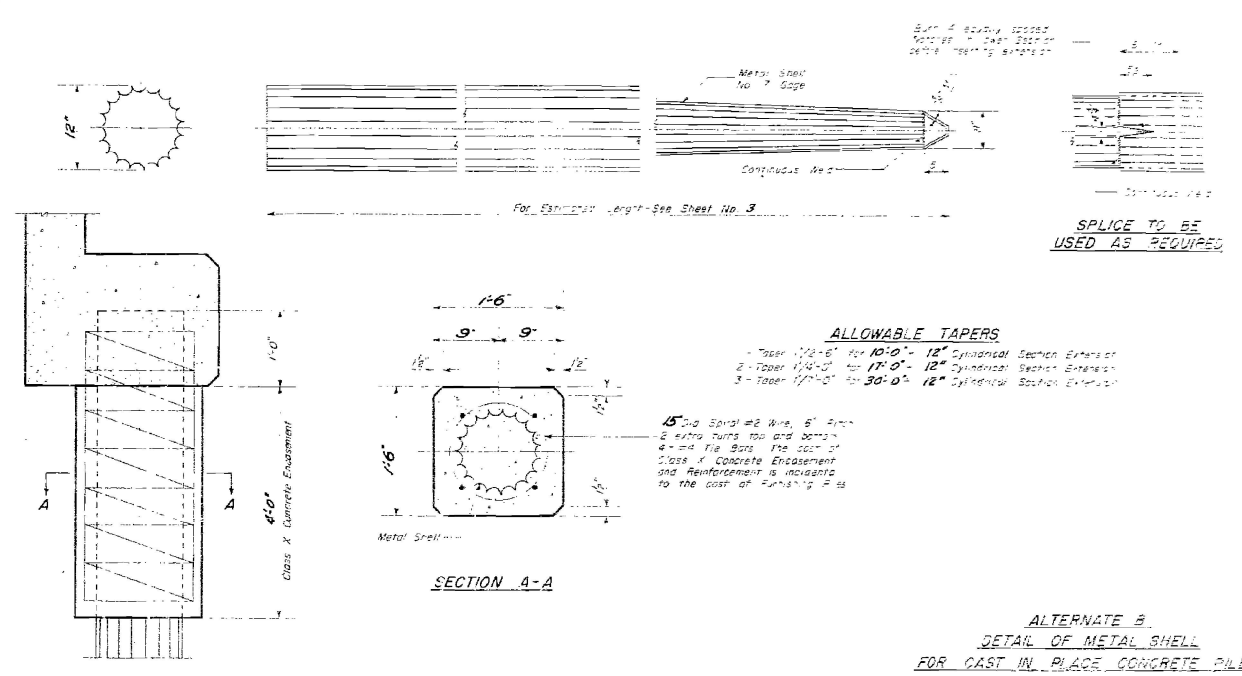
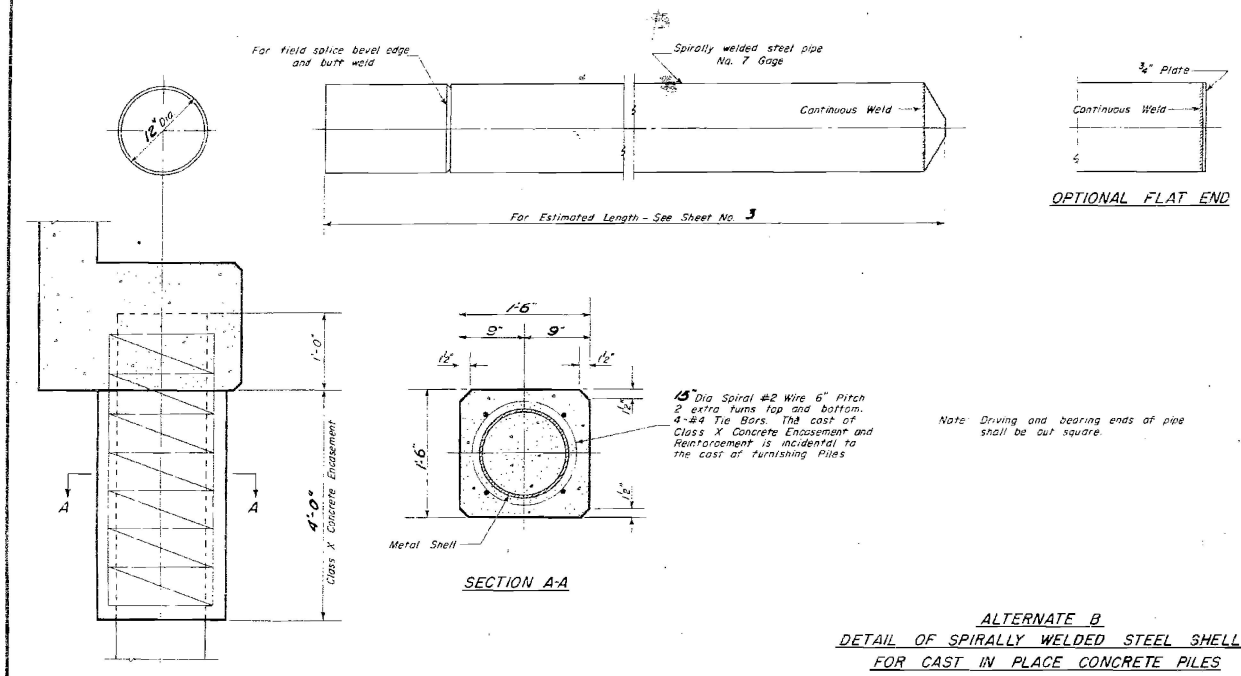
EXISTING STRUCTURE PLANS  
IL 17 OVER HORSE CREEK

SCALE: NTS SHEET 2 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	54
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

ROUTE NO.	SECTION	SHEET NO.	TOTAL SHEETS
17	B.R. KANKAKEE	19	16



**Boring #1 Station 849+78, 24 Ft. R.H.E.**

Depth (ft)	N	Qu	Soil Description
605			Dark brown silt.
595	5	240	Dark brown silty sandy clay.
600	35	409	Very stiff dark brown silty sandy clay fill.
595	110	736	Hard gray silty clay fill.
590	99	1022	Hard gray clay fill.
585	107	511	Hard gray silty clay fill.
590	92	817	Hard gray clay fill.
585	129	873	Hard gray clay fill.
580	120	633	Hard gray clay fill.
585	80	940	Hard gray clay fill.

**Boring #2 Station 849+50, 42 Ft. R.H.E.**

Depth (ft)	N	Qu	Soil Description
605			Dark brown silty sandy clay.
600	5	240	Very stiff dark brown silty sandy clay fill.
595	35	409	Hard gray silty clay fill.
590	110	736	Hard gray clay fill.
585	140	715	Hard gray clay fill.
580	100	572	Hard gray clay fill.
590	100	817	Hard gray clay fill.
585	108	613	Hard gray clay fill.
580	115	711	Hard gray clay fill.
585	126	772	Hard gray clay fill.

**Boring #3 Station 850+60, 18 Ft. R.H.E.**

Depth (ft)	N	Qu	Soil Description
610			Dark brown silty clay fill.
605	4	168	Stiff o.c. brown sandy silty clay.
600	9	148	Stiff dark brown clay fill.
595	33	449	Hard gray silty clay fill.
600	200	-	Very dense gray clayey silty sand.
595	120	654	Hard gray clay fill.
590	73	1022	Hard gray clay fill.
585	112	392	Hard gray clay fill.
580	120	531	Hard gray clay fill.

**BORING DATA**

Note: N = Blows per foot of penetration of sampling spoon.  
Hammer Weight = 350 Lbs. Drop = 12 inches.  
Qu = Uncorrected compressive strength in tons per square foot.

**PILE DETAILS AND BORING DATA  
S.B.I.P. 17 SEC. 13 B.R.  
KANKAKEE CO.  
STATION 849+99**

DESIGNED: Robert A. Howard  
CHECKED: [Signature]  
DRAWN: [Signature]  
CHECKED: R.K.

EXAMINED: [Signature]  
PASSED: [Signature]  
APPROVED: [Signature]

DEC. 9 1958

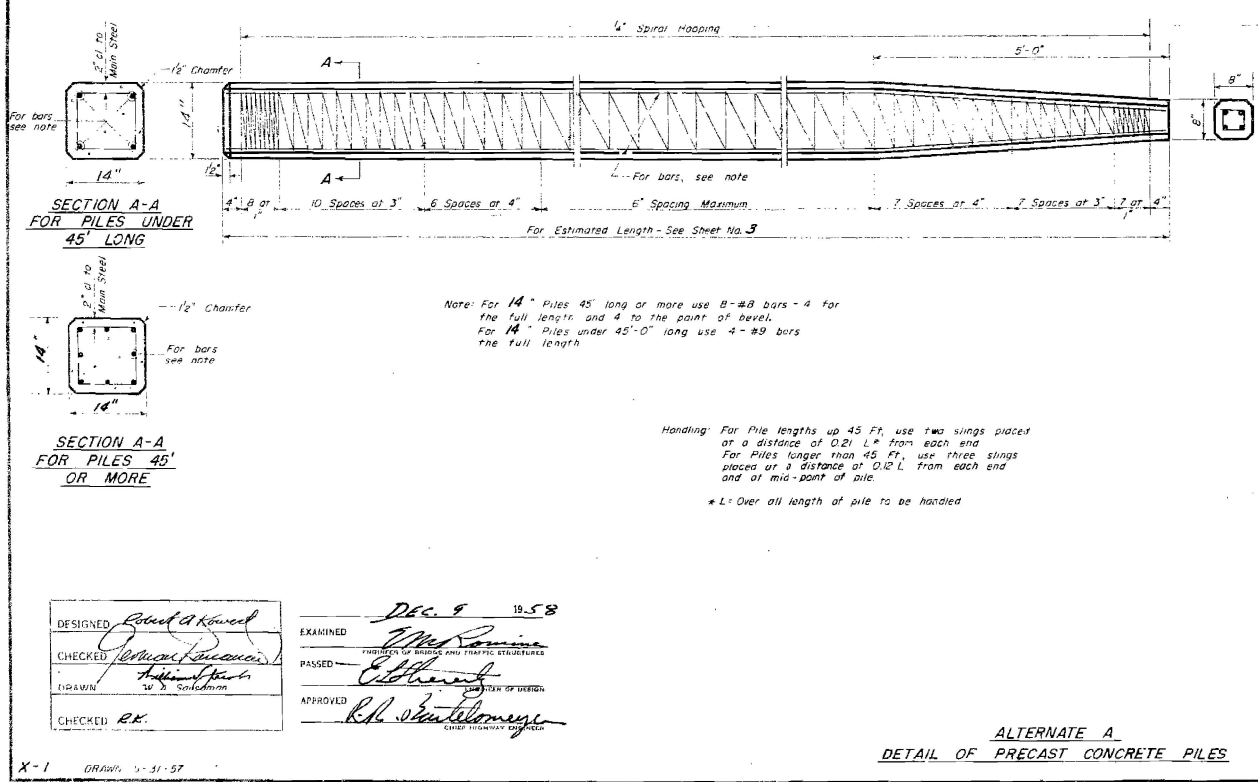
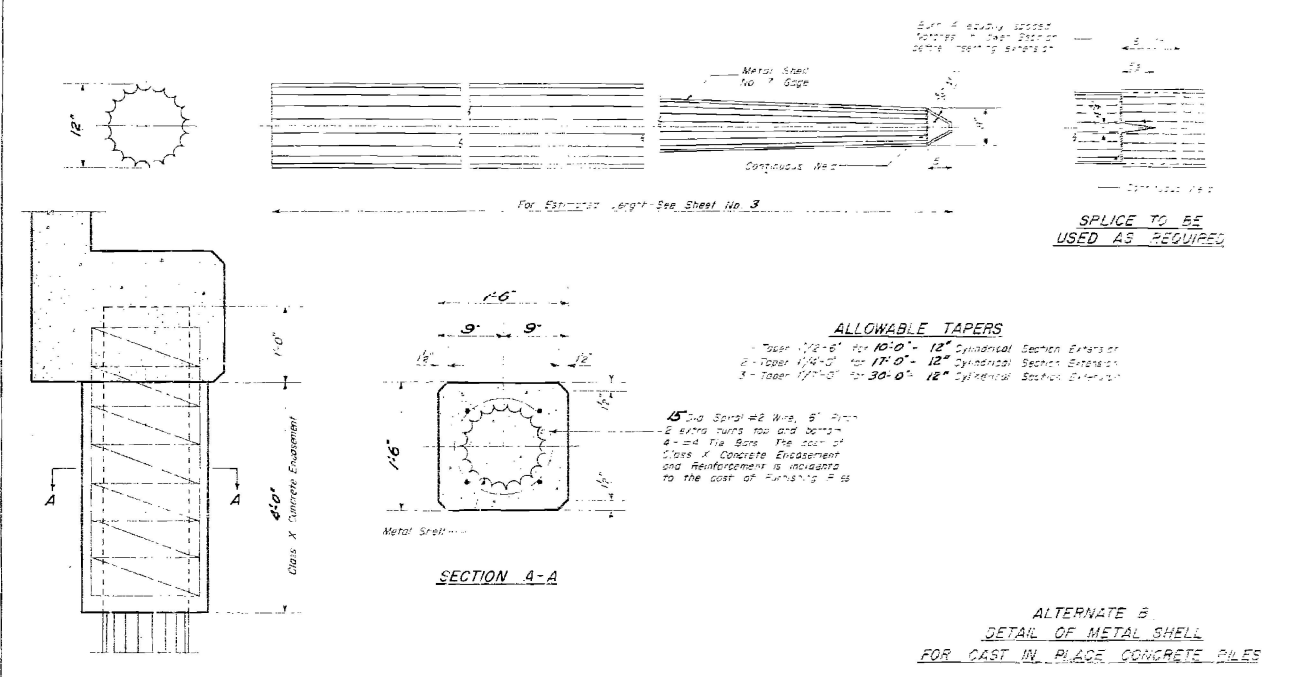
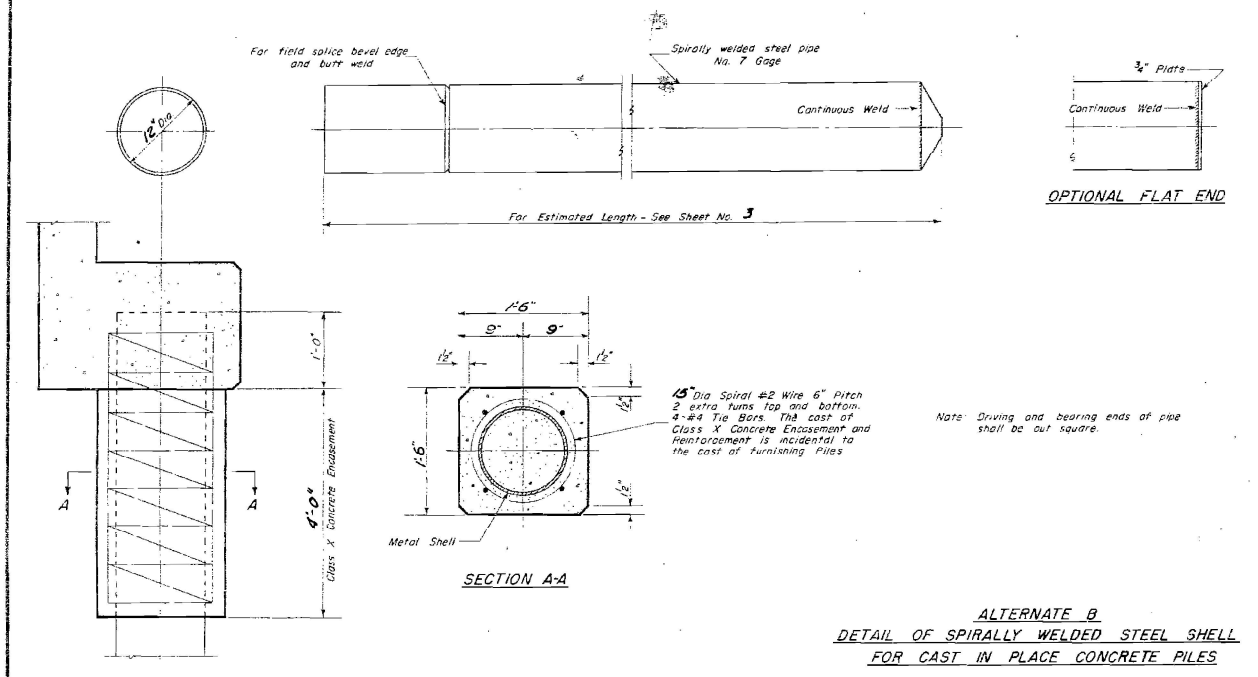
X-1 DRAWN 5-31-57

**FOR INFORMATION ONLY**

<b>Wight</b>	USER NAME = tbarker	DESIGNED - TJB	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	EXISTING STRUCTURE PLANS IL 17 OVER HORSE CREEK			F.A.P. R.T.E. = 41	SECTION = (13)BR-2	COUNTY = KANKAKEE	TOTAL SHEETS = 79	SHEET NO. = 55
	PLOT SCALE = 0.1666833' / in.	DRAWN - TJB	REVISED -		SCALE: NTS	SHEET 3	OF 12 SHEETS	STA.	TO STA.	CONTRACT NO. 66L10		
	PLOT DATE = 3/7/2024	CHECKED - JNH	REVISED -					ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS  
DEPARTMENT OF PUBLIC WORKS & BUILDINGS  
DIVISION OF HIGHWAYS

PROJECT NO.	SECTION	SHEET NO.	TOTAL SHEETS
17	13 BR KANKAKEE	19	16



Boring #1 Station 849+70, 24 Ft. R.F.E.		Boring #2 Station 849+50, 42 Ft. R.F.E.		Boring #3 Station 850+60, 18 Ft. R.F.E.	
N	Qu	N	Qu	N	Qu
605		505		610	
600		600	35 409	605	
595	100 10.22	595	110 736	600	
590	99 10.22	590	140 715	600	33 449
585	107 5.11	590	100 5.72	595	120 5.34
		585	92 8.17	590	73 10.22
		585	129 8.78	590	112 5.32
		585	120 6.33	585	126 5.31
		585	80 9.40		

**BOREING DATA**  
Note: N = Blows per foot of penetration of sampling spoon.  
Hammer Weight = 350 Lbs. Drop = 12 inches.  
Qu = Unconfined compressive strength in tons per square foot.

**PILE DETAILS AND BOREING DATA**  
S.B.I.R. 17 SEC. 13 B.R.  
KANKAKEE CO.  
STATION 849+99

MODEL: Existing Structure Plans - Existing Structure Plans-5 (Sheet)  
FILE NAME: C:\CD\DOTCAD\_CADD\_1\010102\Computer\Workspaces\DOTCAD\_CONNECT\WorkSpace12\0254.DOT D3\Work Order BICADD Data\Sheet0254.dwg (StructureEPlan.dwg)



USER NAME = tbarker	DESIGNED - TJB	REVISED -
PLOT SCALE = 0.16666833 / in.	DRAWN - TJB	REVISED -
PLOT DATE = 3/7/2024	CHECKED - JNH	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

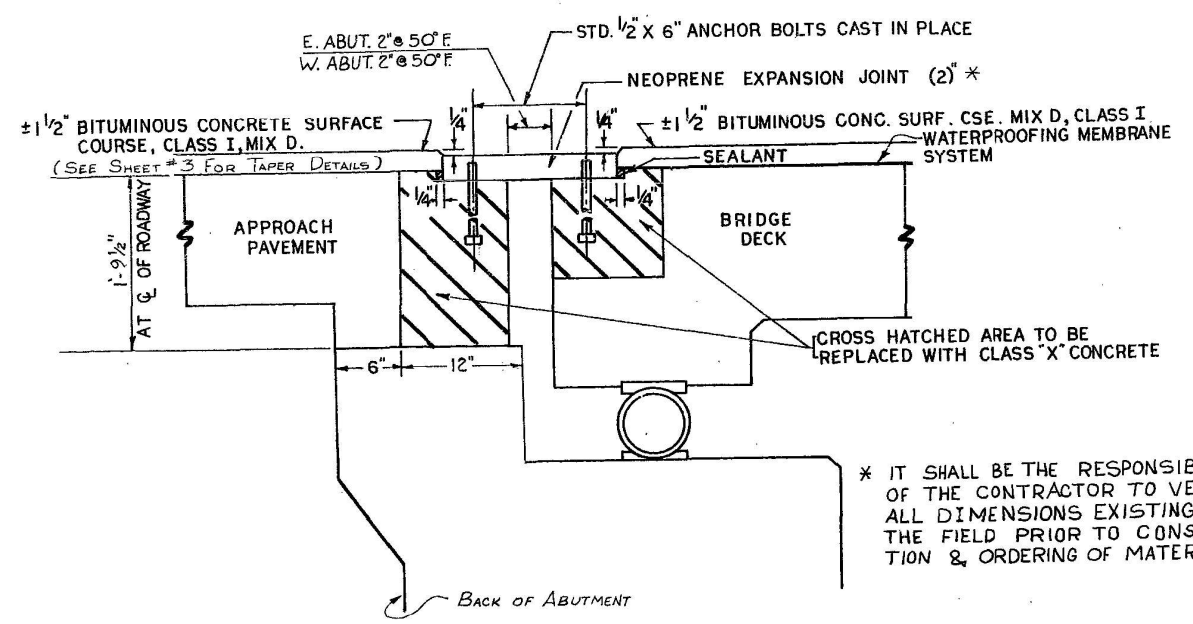
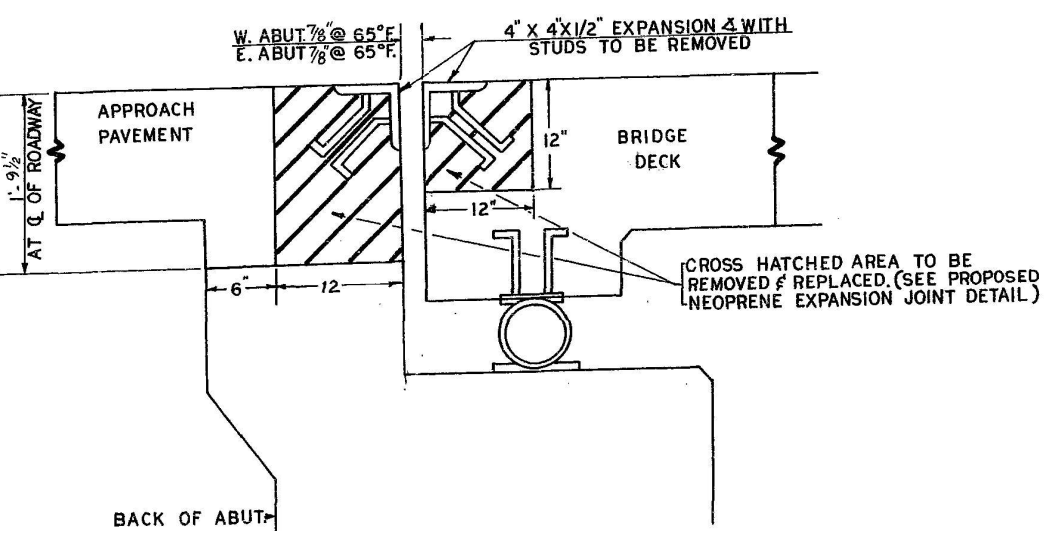
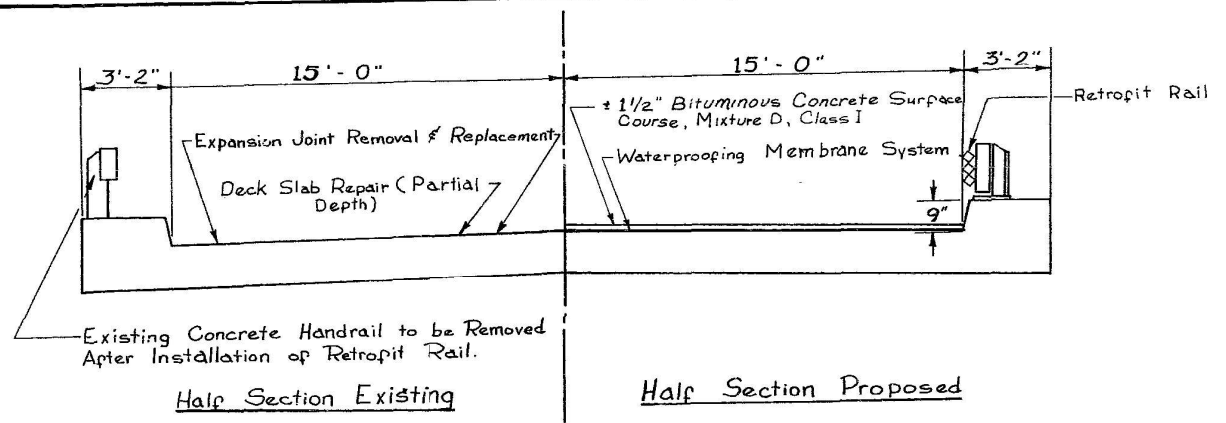
**FOR INFORMATION ONLY**

EXISTING STRUCTURE PLANS  
IL 17 OVER HORSE CREEK  
SCALE: NTS SHEET 4 OF 12 SHEETS STA. TO STA.

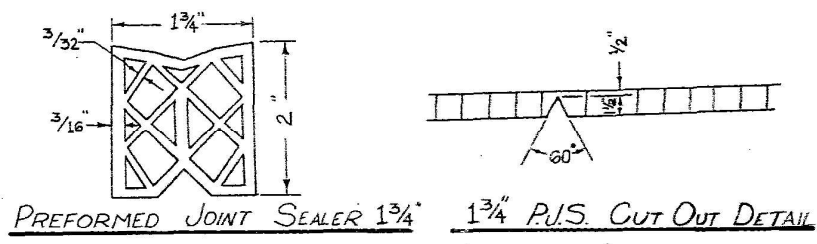
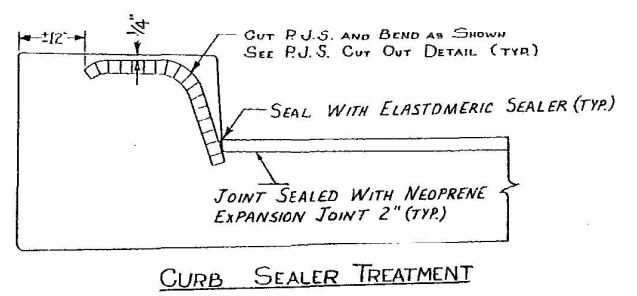
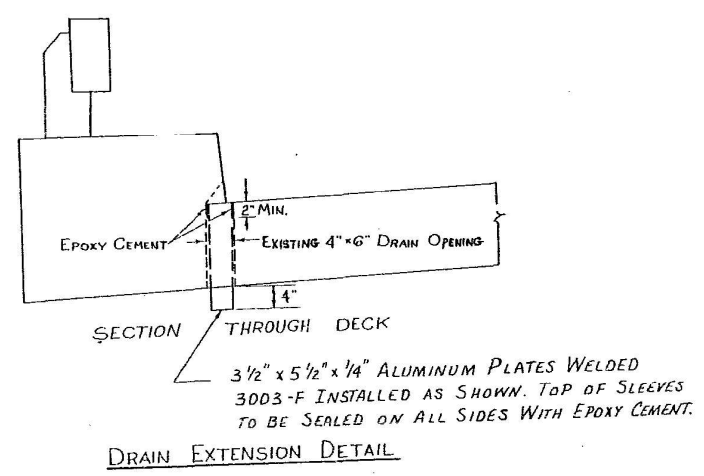
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	56
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				



ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NUMBER
ILL. 17	*	KANKAKEE	8	16
IHWIA REG. 4 ILLINOIS PROJECT				
Sec. (12, 13, 14) R.S.				



\* IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL DIMENSIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION & ORDERING OF MATERIALS.



GENERAL NOTES:  
IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL DIMENSIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS. ALL EXPOSED EXISTING REINFORCEMENT IN THE AREA OF CONCRETE REMOVAL IS TO BE CLEANED AND INCORPORATED INTO THE NEW CONCRETE UNLESS OTHERWISE NOTED. (SEE SPECIAL PROVISIONS).

LIST OF QUANTITIES			
CODE NO.	ITEM	UNIT	QUANTITY
106013	BIT. CONC. SURF. CSE., MIX D, CL. I	TON	25
501024	CONCRETE REMOVAL	CU YD	6.2
501041	BRIDGE HANDRAIL REMOVAL	LIN FT	180
504003	CLASS "X" CONCRETE	CU YD	6.2
210481	DECK SLAB REPAIR (PARTIAL DEPTH)	SQ YD	75
210279	NEOPRENE EXPANSION JOINT 2"	LIN FT	60
210327	PREFORMED JOINT SEAL 1 3/4"	LIN FT	12
210550	WATERPROOFING MEMBRANE SYSTEM	SQ YD	293
	RELOCATE EXISTING NAME PLATE	EACH	1
	FLOOR DRAIN EXTENSION	EACH	22
164806	TRAFFIC CONTROL AND PROTECTION STANDARD 2309, LOCATION 6	EACH	1

STATION 849+99 (MILE 5.81)  
STRUCTURE # 046-0031

FOR INFORMATION ONLY

	USER NAME = tbarker	DESIGNED - TJB	REVISED -
	PLOT SCALE = 0.16666833 / in.	DRAWN - TJB	REVISED -
	PLOT DATE = 3/7/2024	CHECKED - JNH	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

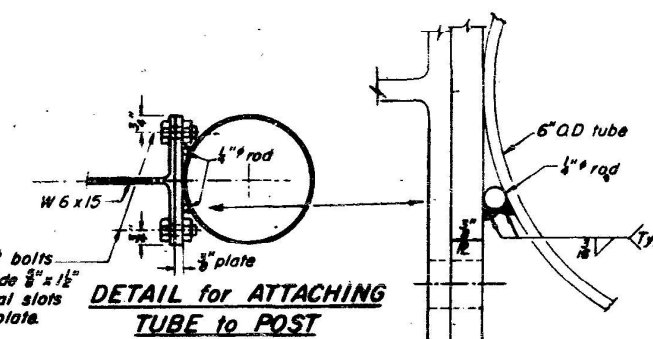
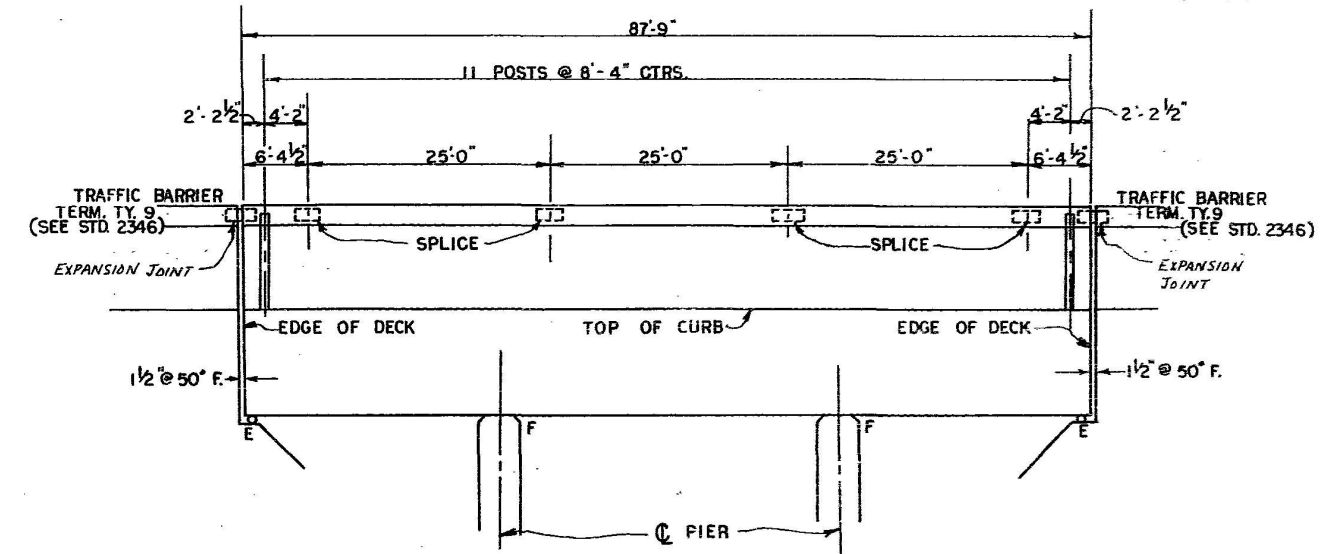
EXISTING STRUCTURE PLANS  
IL 17 OVER HORSE CREEK

SCALE: NTS SHEET 5 OF 12 SHEETS STA. TO STA.

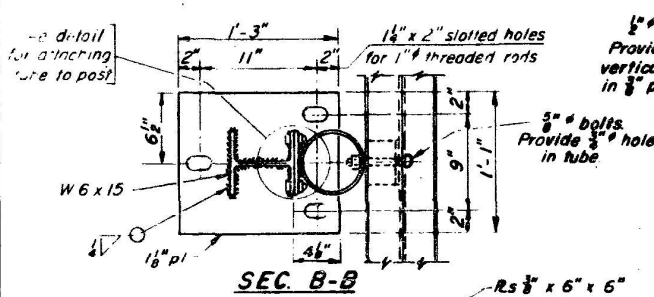
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	57
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ILL. 17	*	KANKAKEE	19	17
STA.	TO STA.	PROJECT		
FED. ROAD DIST. NO. 7	ILLINOIS			

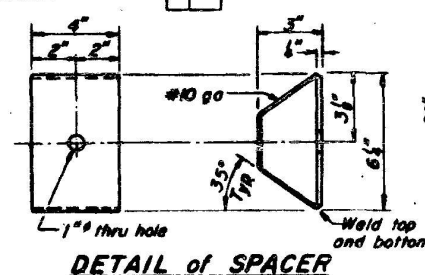
\* SEC. (12,13,14)RS



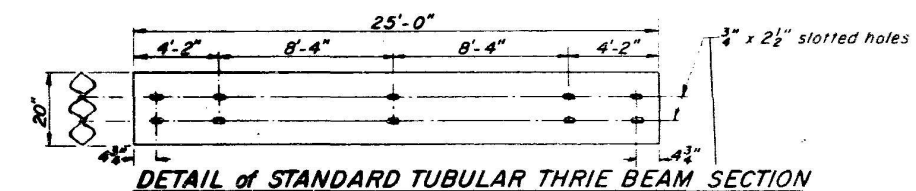
**DETAIL for ATTACHING TUBE to POST**



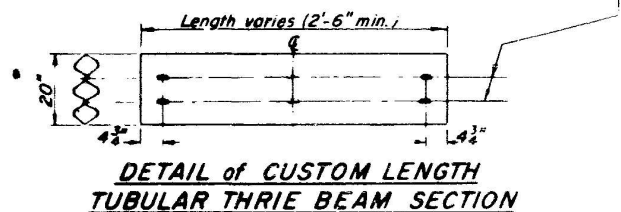
**SEC. B-B**



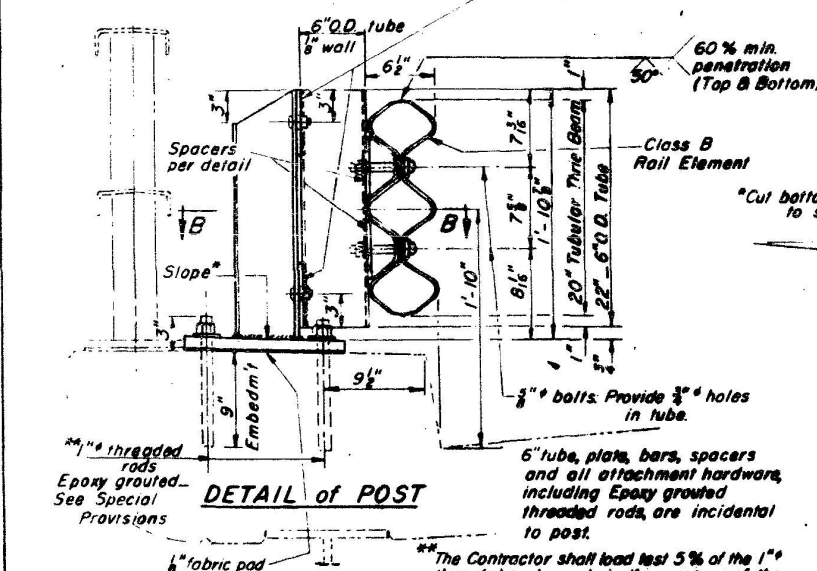
**DETAIL of SPACER**



**DETAIL of STANDARD TUBULAR THRIE BEAM SECTION**



**DETAIL of CUSTOM LENGTH TUBULAR THRIE BEAM SECTION**



**DETAIL of POST**

**NOTES**

The Engineer will measure bridge longitudinally and accurately locate all expansion joints.  
 Posts shall not be located closer than 1'-3" c-c to an existing bridge expansion joint or end of bridge.  
 Tubular thrie beam expansion joint shall be provided between any two (2) posts which span a bridge expansion joint.  
 For details of tubular thrie beam splice and expansion joint see Standard 2346.  
 The standard length for a tubular thrie beam section is 25'-0". Posts shall be provided at standard 8'-4" centers whenever practical.  
 In the event that standard lengths of tubular thrie beam cannot be longitudinally positioned to meet the above requirements shorter custom fabricated sections will be specified.  
 A Traffic Barrier Terminal Type 9, as detailed on Standard 2346 shall be provided at each of the four (4) corners of the bridge.  
 Provide 1-1/2" and 2-1/4" steel shims for 25% of the Posts. Shims shall be similar to base plate in size and holes.

The Tubular Thrie Beam rail section shall be fabricated by welding two (2) Thrie Beam rail elements as shown. The Thrie Beam rail section shall conform to the requirements of AASHTO M180 Type I of the class specified.  
 All structural steel shapes and plates shall conform to AASHTO M183 and shall be galvanized after fabrication in accordance with AASHTO M111 and ASTM A-385.  
**BASIS of PAYMENT:** This work will be paid for at the contract unit price per lineal foot, measured in place, for TUBULAR THRIE BEAM RETROFIT RAIL FOR BRIDGES, complete in place as shown hereon.

NOTE: IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY ALL DIMENSIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.

**BILL of MATERIAL**

Item	UNIT	QUANTITY
Posts	each	22
Splice rails	each	12
Standard 25' lengths of Tubular Thrie Beam	each	6
Custom lengths of Tubular Thrie Beam (2' 6" min.)		
6' 4 1/2" long	each	4
long	each	
long	each	

The quantities shown above are the total required for one (1) bridge.

Bridge Station 849 + 99 (Mile 5.81)  
 Structure # 0031

**TUBULAR THRIE BEAM RETROFIT RAIL for BRIDGES**  
**STANDARD 2348-1**

**FOR INFORMATION ONLY**

Illinois Department of Transportation  
 PASSED Feb 5, 1980  
 APPROVED Feb 5, 1980  
 ISSUED 2-23-78

USER NAME = tbarker	DESIGNED - TJB	REVISED -
PLOT SCALE = 0.16666833 / in.	DRAWN - TJB	REVISED -
PLOT DATE = 3/7/2024	CHECKED - JNH	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS  
 IL 17 OVER HORSE CREEK  
 SCALE: NTS SHEET 6 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	58
CONTRACT NO. 66L10			ILLINOIS FED. AID PROJECT	



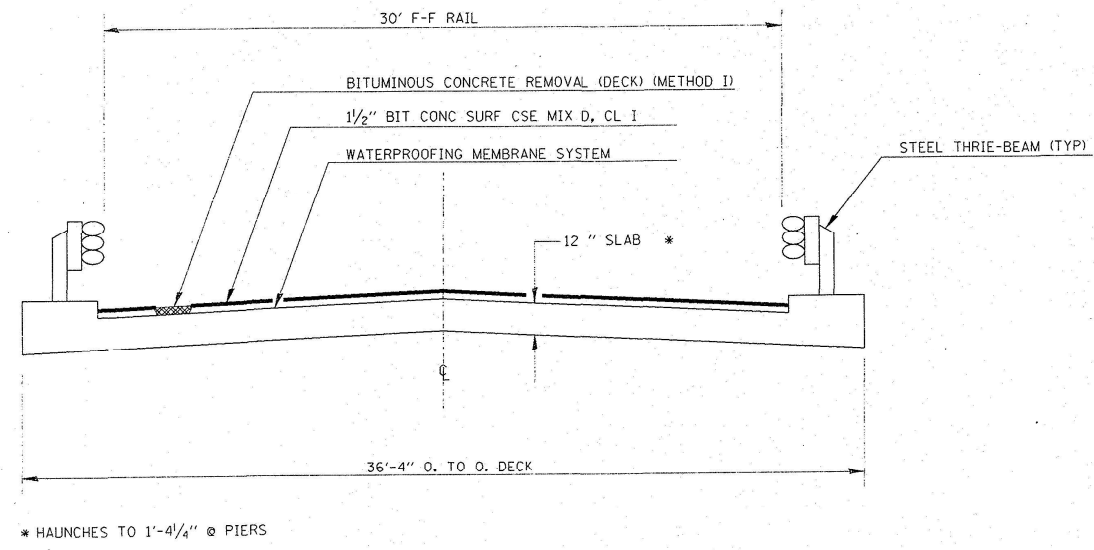
MODEL: Existing Structure Plans - Existing Structure Plans.dwg (Sheet)  
 FILE NAME: C:\CD\DOT\CD\_000\_10\102\Comparative\Spacers\DOT\CD\_CONNECT\WorkSheet12025.dwg DOT D3 Work Order: R1CADD Data Sheets\02561.dwg (Structure Element.dwg)

E-3340

F.A. NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 41	*	KANKAKEE	64	49
STA.	TO STA.			

\* (12)RS-3, BR-1; (13)RS-2, BR-1, BR-2, BR-3;  
 (14)RS-2, BR-1, BR-2  
 SHEET 1 OF 6

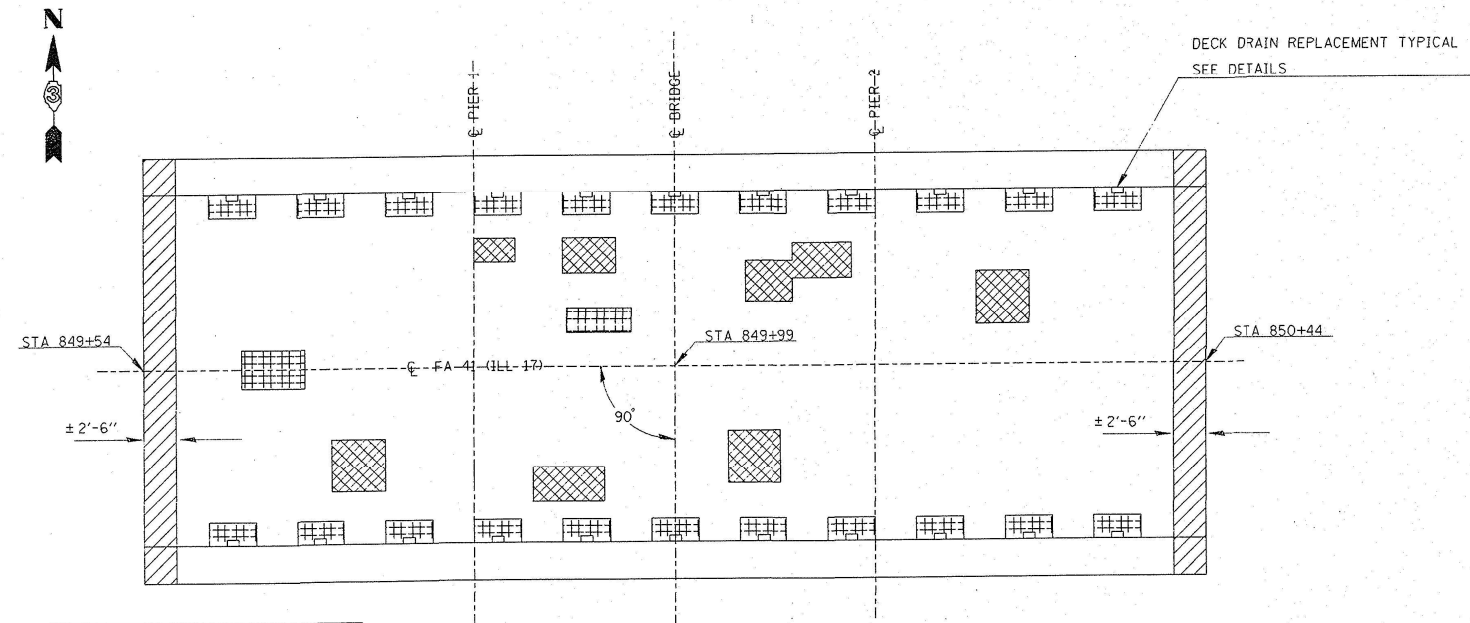
EXISTING STRUCTURE: 13-BR  
 CONTINUOUS SLAB, 3 SPAN STRUCTURE  
 2 SPANS AT 26'-3" & 1 SPAN AT 34'-0"  
 90'-0" BK TO BK ABUTMENTS



TYPICAL SECTION

- GENERAL NOTES
- Plan dimensions and details relative to the existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering materials. Such variations shall not be cause for additional compensation. For a change in the scope of work, however, the contractor will be paid for the quantity actually furnished at the unit price bid for the work.
  - Reinforcing bars shall conform to the requirements of AASHTO M-31, M-42, OR M-53 grade 60
  - Existing reinforcement shall be cleaned and incorporated into new construction.
  - Removal of existing bearings shall be incidental to concrete removal and new bearing pay items.
  - The Contractor shall provide support system for the slab in area of existing bearing removal, as required in order to maintain "as built" deck profile. The support system shall be approved by the Engineer, such approval will not relieve the Contractor of responsibility for safety of the structure. See Special Provisions.

LIST OF QUANTITIES		
ITEM	UNIT	QUANTITY
CHANNEL EXCAVATION	CU YD	65
BITUMINOUS CONCRETE SURFACE COURSE, MIXTURE D, CLASS I, TYPE 2	TON	25
CONCRETE REMOVAL	CU YD	15.4
PREFORMED JOINT SEAL 2 1/2"	LIN FT	72
ELASTOMERIC BEARING ASSEMBLY, TYPE 1	EACH	18
CLASS X CONCRETE	CU YD	16.8
FURNISHING AND ERECTING STRUCTURAL STEEL	POUND	3150
REINFORCEMENT BARS, EPOXY COATED	POUND	1950
BAR SPLICERS	EACH	32
TEMPORARY SLAB SUPPORT SYSTEM	L SUM	1
STONE DUMPED RIPRAP, CLASS A4	SQ YD	340
BITUMINOUS CONCRETE REMOVAL (DECK)	SQ YD	294
SLOPE WALL REMOVAL	SQ YD	275
TRAFFIC CONTROL AND PROTECTION, STANDARD 2409 (SPECIAL)	EACH	1
REMOVAL AND REINSTALLATION OF TRAFFIC BARRIER TERMINAL, TYPE 9	EACH	4
TUBULAR THRIE BEAM RETROFIT RAIL FOR BRIDGES (SPECIAL)	LIN FT	125
DECK DRAIN REPLACEMENT	EACH	22
DECK SLAB REPAIR (FULL DEPTH, TYPE I)	SQ YD	22.9
DECK SLAB REPAIR (PARTIAL)	SQ YD	16.3
EPOXY CRACK SEALING	LIN FT	153
POLYMER MODIFIED PORTLAND CEMENT MORTAR	CU FT	1.2
CRACK FILLING	POUND	40
FILTER FABRIC FOR USE WITH RIPRAP	SQ YD	340
WATERPROOFING MEMBRANE SYSTEM	SQ YD	294



DECK REPAIR PLAN

LEGEND

	CONCRETE REMOVAL
	DECK SLAB REPAIR (FULL DEPTH)
	DECK SLAB REPAIR (PARTIAL)

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 STRUCTURE REHABILITATION  
 FA 41 (ILL 17)  
 SECTION 13BR-1  
 KANKAKEE COUNTY  
 STR NO 046-0031  
 STA 849+99

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_

DRAWN BY SPK  
 CHECKED BY \_\_\_\_\_

FOR INFORMATION ONLY

MODEL: Existing Structure Plans - Existing Structure Plans.dwg (Sheet)  
 FILE NAME: C:\D:\DOT\CAD\DOT\_1\10102\Comp\plan\13BR-1\13BR-1.dwg  
 DATE: 3/7/2024



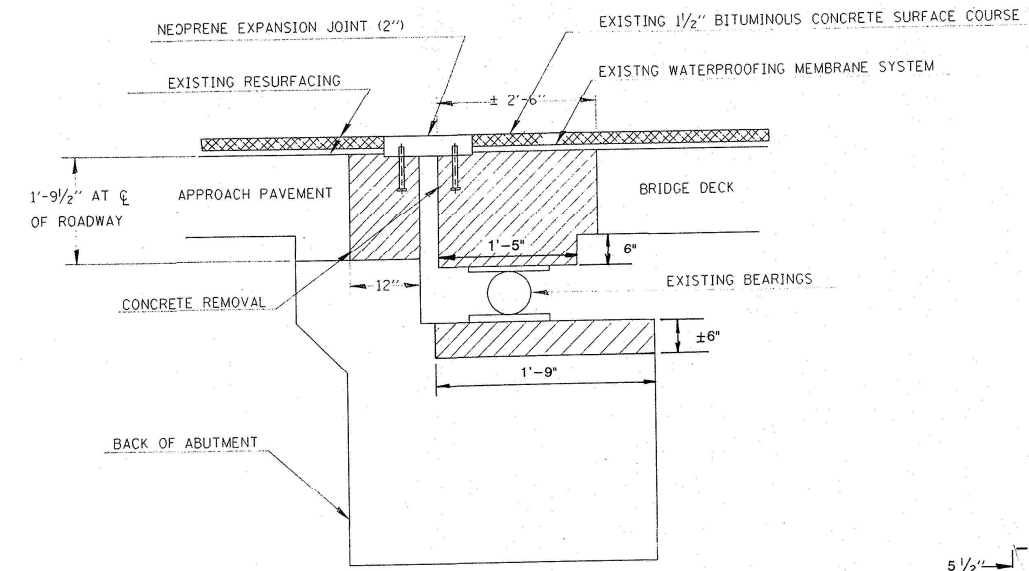
USER NAME = tbarker	DESIGNED - TJB	REVISED -
PLOT SCALE = 0.16666633 / in.	DRAWN - TJB	REVISED -
PLOT DATE = 3/7/2024	CHECKED - JNH	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

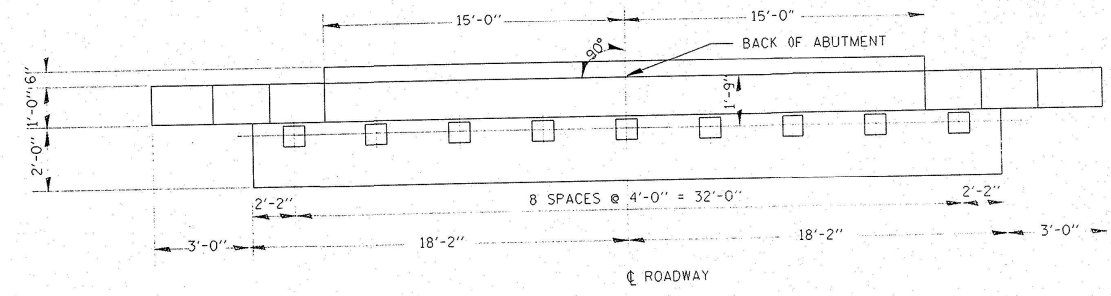
EXISTING STRUCTURE PLANS  
 IL 17 OVER HORSE CREEK

SCALE: NTS SHEET 7 OF 12 SHEETS STA. TO STA.

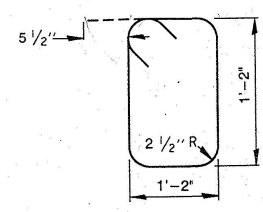
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	59
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				



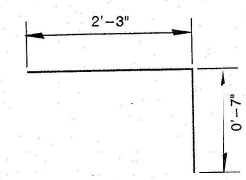
EXISTING ABUTMENT



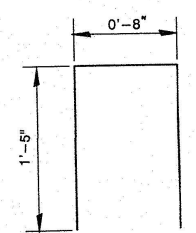
TOP VIEW  
 SHOWING BEARING LOCATIONS



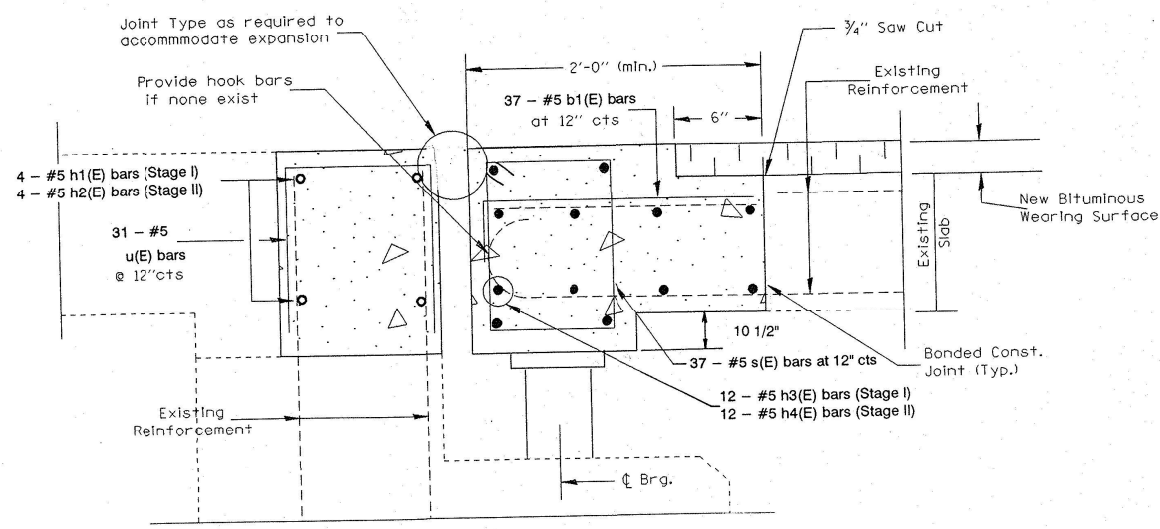
BAR s(E)



BAR b1(E)



BAR u(E)



WITH BITUMINOUS WEARING SURFACE

BILL OF MATERIAL

BAR	NUMBER	SIZE	LENGTH
b1 (E)	74	#5	2'-10"
h1 (E)	8	#5	15'-0"
h2 (E)	8	#5	14'-0"
h3 (E)	24	#5	18'-0"
h4 (E)	24	#5	17'-0"
s (E)	74	#5	5'-0"
u (E)	62	#5	3'-6"
REINFORCEMENT BARS, EPOXY COATED		POUNDS	1950
CONCRETE REMOVAL		CU YD	15.4
CLASS X CONCRETE		CU YD	16.8

BAR SPLICERS REQUIRED FOR ALL STAGE I "h" BARS

LEGEND

	FORMED CONCRETE REPAIR (DEPTH EQUAL TO OR LESS THAN 5")
	EPOXY MORTAR REPAIR
	EPOXY CRACK SEALING

REVISIONS	
NAME	DATE

NOT TO SCALE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 STRUCTURE REHABILITATION  
 FA 41 (ILL 17)  
 SECTION 13BR-1  
 KANKAKEE COUNTY  
 STR NO 046-003  
 STA 849+99

SCALE: VERT. \_\_\_\_\_ DATE \_\_\_\_\_  
 HORIZ. \_\_\_\_\_

FOR INFORMATION ONLY

MODEL: E:\Illinois Structure Plans - Existing Structure Plans\2 (Sheet) FILE NAME: C:\CADD\DOTCADD\DOTCADD\CONNECT\WorkSpace\120254\DOT D3 Work Order 81CADD Data\Sheet02666\_10.ctb StructureEPlan.dgn  
 12/15/2024 10:44:37 AM



USER NAME = tbarker	DESIGNED - TJB	REVISED -
PLOT SCALE = 0.16666633 / in.	DRAWN - TJB	REVISED -
PLOT DATE = 3/7/2024	CHECKED - JNH	REVISED -
	DATE -	REVISED -

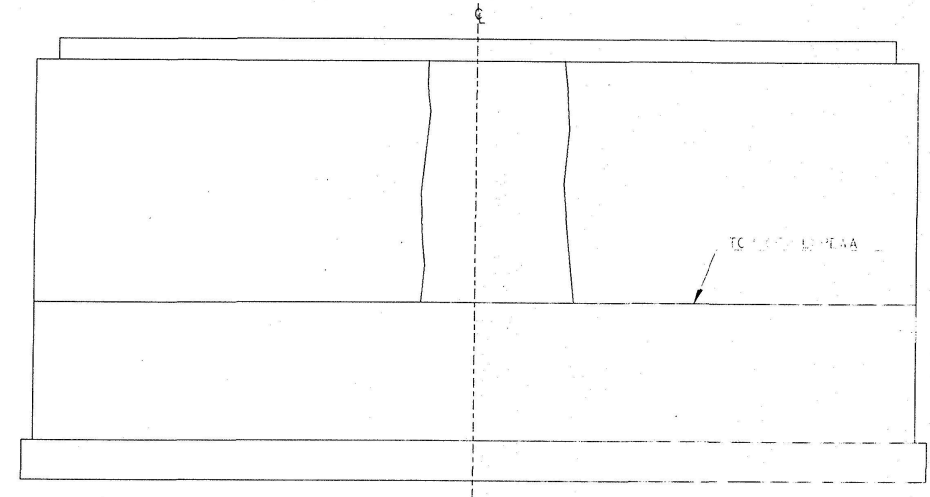
STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

EXISTING STRUCTURE PLANS  
 IL 17 OVER HORSE CREEK

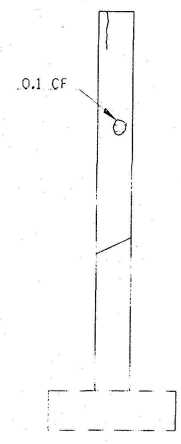
SCALE: NTS SHEET 8 OF 12 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	60
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				

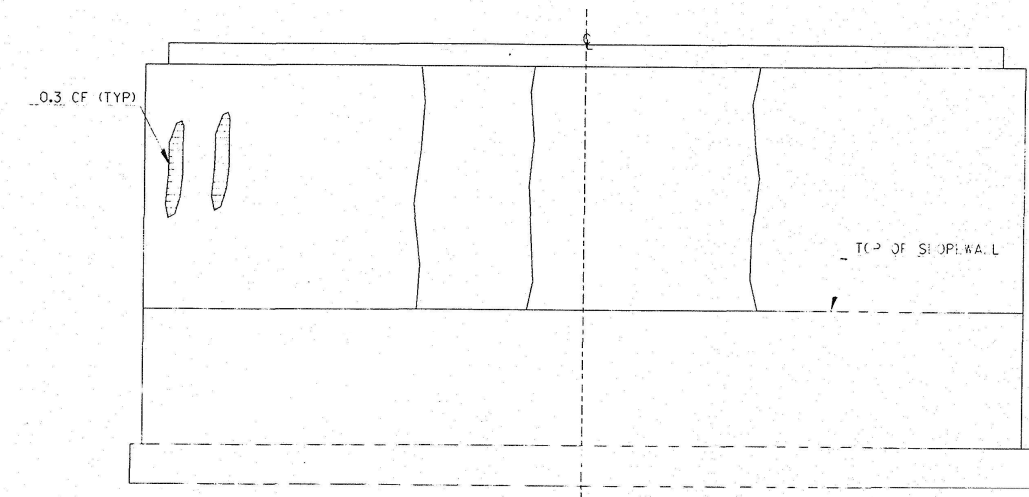
F.A.P. SECTION COUNTY TOTAL SHEETS SHEET NO.  
 FA 41 \* KANKAKEE 64 51  
 STA. TO STA.  
 FED. AID PROJ. NO. ILLINOIS FED. AID PROJECT  
 \* (12)RS-3, BR-1; (13)RS-2, BR-1, BR-2, BR-3;  
 (14)RS-2, BR-1, BR-2  
 SHEET 3 OF 6



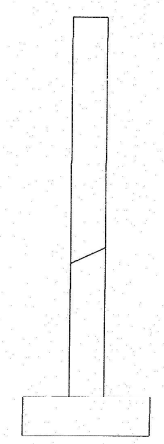
EAST ELEVATION  
PIER 1



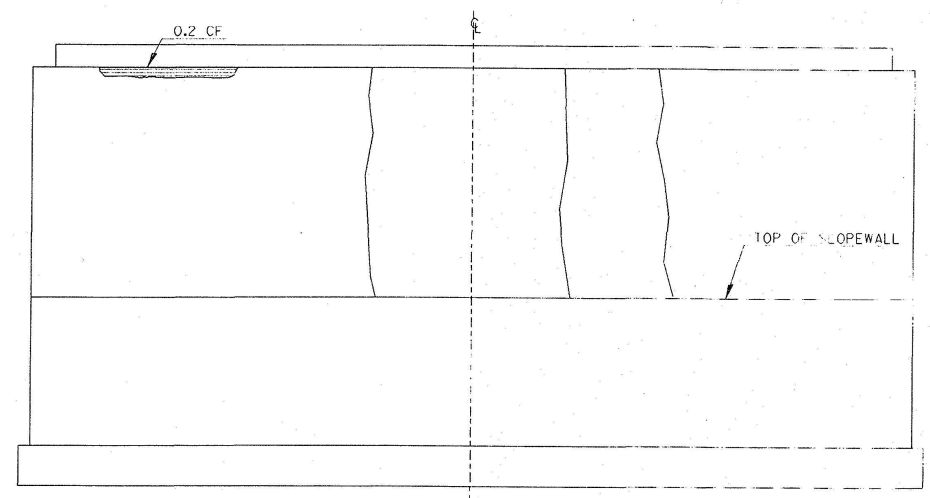
SOUTH ELEVATION



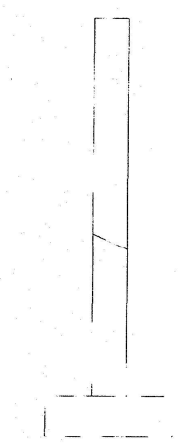
EAST ELEVATION  
PIER 2



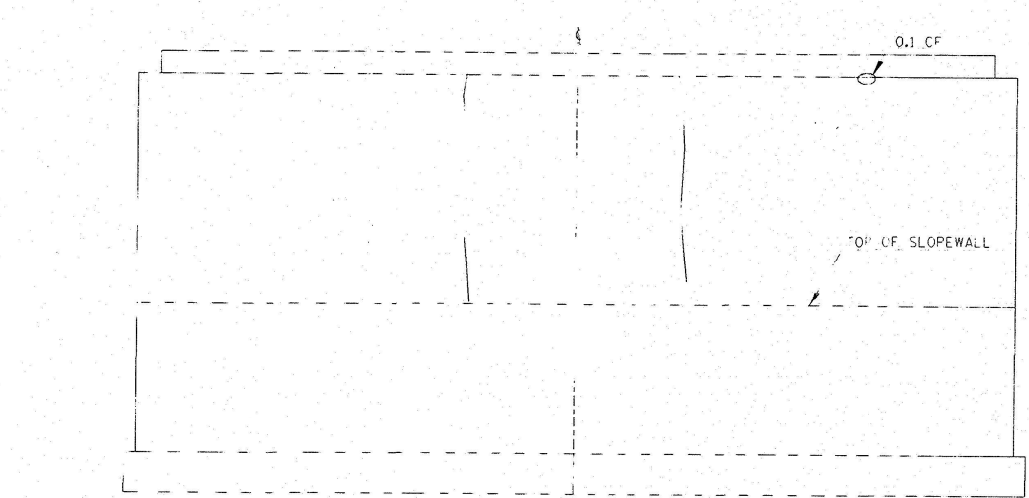
SOUTH ELEVATION



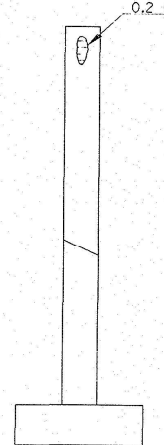
WEST ELEVATION  
PIER 1



NORTH ELEVATION



WEST ELEVATION  
PIER 2



NORTH ELEVATION

FOR INFORMATION ONLY

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 STRUCTURE REHABILITATION  
 FA 41 (ILL 17)  
 SECTION 13BR-1  
 KANKAKEE COUNTY  
 STR NO 046-0031  
 STA 849+99

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_

DRAWN BY SPK  
 CHECKED BY \_\_\_\_\_

NOT TO SCALE

REVISIONS	DATE

Dec. 28, 1993 05:58:55  
 P:\036901\03096524A.DGN

MODEL: E:\shl\shl\Structure Plans - Existing Structure Plans.dwg (Sheet)  
 FILE NAME: C:\CADD\DOTCAD\DOT\10102\Computer\Workspaces\DOTCAD\CONNECT\WorkSpace12\0284\DOT D3\Work Order 8\ICADD Data\Sheet\0284\0284-Structure.dwg



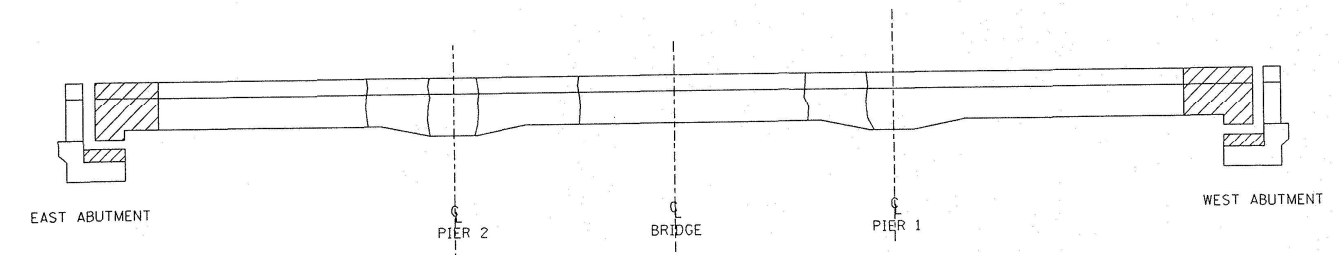
USER NAME = tbarker	DESIGNED - TJB	REVISED -
PLOT SCALE = 0.16666833 / in.	DRAWN - TJB	REVISED -
PLOT DATE = 3/7/2024	CHECKED - JNH	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

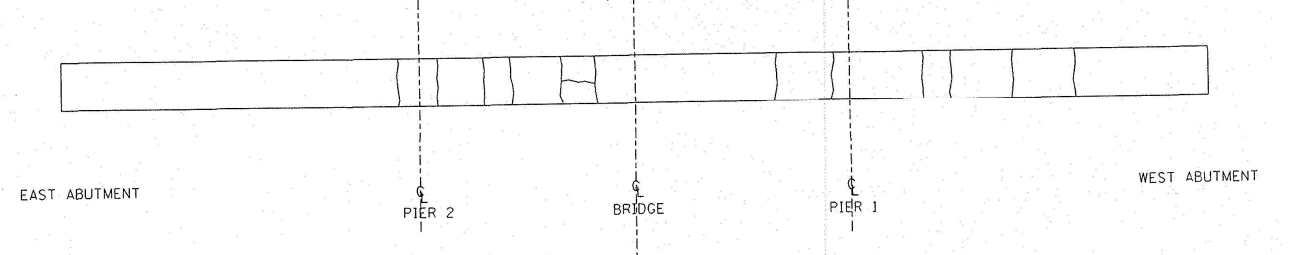
EXISTING STRUCTURE PLANS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
IL 17 OVER HORSE CREEK		41	(13)BR-2	KANKAKEE	79	61
SCALE: NTS	SHEET 9 OF 12 SHEETS	STA.	TO STA.	CONTRACT NO. 66L10		

ILLINOIS	FED. AID PROJECT
----------	------------------

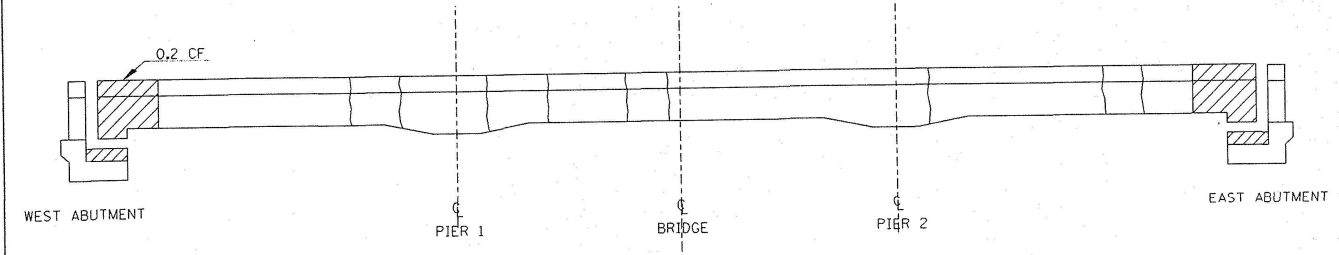
F.A.P. SECTION COUNTY TOTAL SHEETS SHEET NO.  
 FA 41 \* KANKAKEE 64 52  
 STA. TO STA.  
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT  
 \* (12)RS-3, BR-1; (13)RS-2, BR-1, BR-2, BR-3;  
 (14)RS-2, BR-1, BR-2  
 SHEET 4 OF 6



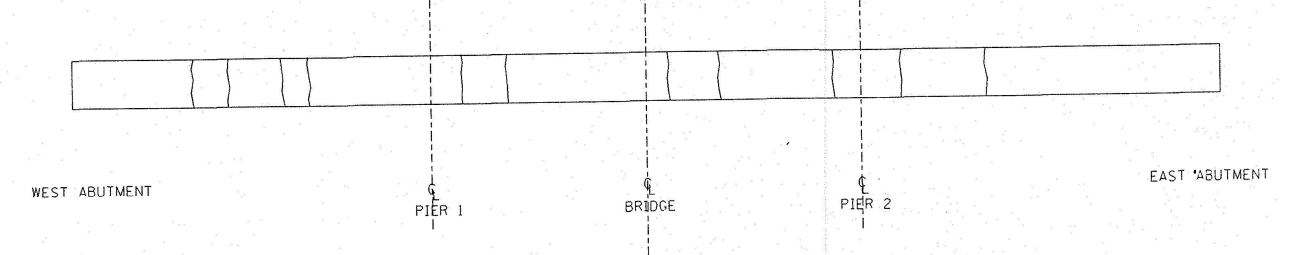
**NORTH ELEVATION  
 NORTH BRIDGE RAIL**



**NORTH ELEVATION  
 SOUTH BRIDGE RAIL**



**SOUTH ELEVATION  
 SOUTH BRIDGE RAIL**



**SOUTH ELEVATION  
 NORTH BRIDGE RAIL**

NOT TO SCALE

**LEGEND**

	FORMED CONCRETE REPAIR (DEPTH EQUAL TO OR LESS THAN 5")
	POLYMER MODIFIED PORTLAND CEMENT MORTAR
	EPOXY CRACK SEALING

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 STRUCTURE REHABILITATION  
 FA 41 (ILL 17)  
 SECTION 13BR-1  
 KANKAKEE COUNTY  
 STR NO 046-0031  
 STA 849+99

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_

DRAWN BY SPK  
 CHECKED BY \_\_\_\_\_

**FOR INFORMATION ONLY**

MODEL: \\lhb\p\Structure Plans - Existing Structure Plans\4 (Sheet) FILE NAME: C:\CD\DOT\CAD\_000\_1\0102\Computer\Workspaces\DOT\CAD\_CONNECT\Work\849+DOT D3 Work Order 81CADD Data\Sheet\0661\04\Structure\Es\Es.dgn  
 Date: 29, 1993 09:58:56  
 P3066901 P3066904LDGN



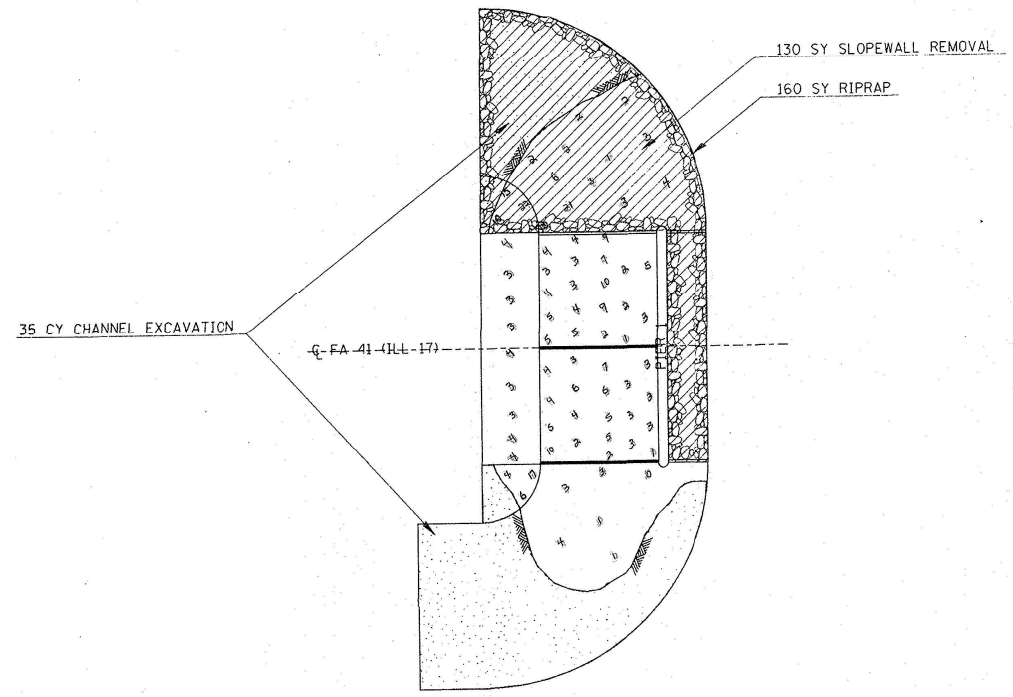
USER NAME = tbarker	DESIGNED - TJB	REVISED -
PLOT SCALE = 0.16666633' / in.	DRAWN - TJB	REVISED -
PLOT DATE = 3/7/2024	CHECKED - JNH	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

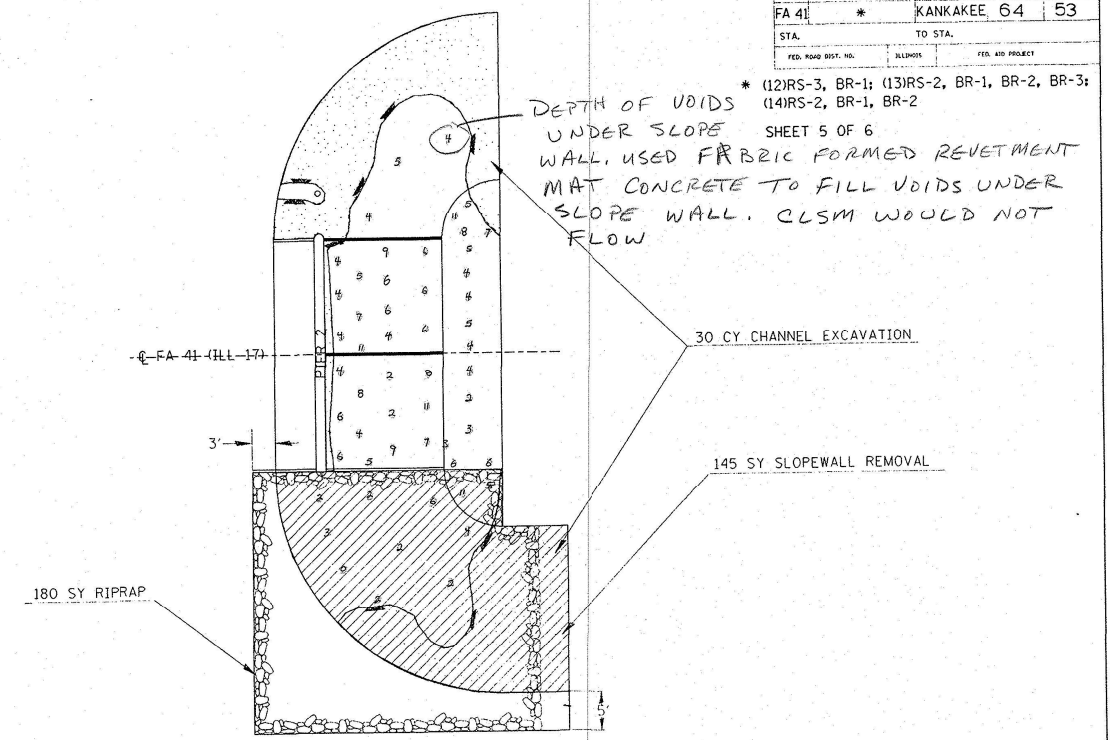
<b>EXISTING STRUCTURE PLANS    IL 17 OVER HORSE CREEK</b>			
SCALE: NTS	SHEET 10	OF 12 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	62
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				

F.A. FILE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 41	*	KANKAKEE	64	53
STA.	TO STA.			
FED. ROAD DIST. NO.	LENGTH	FED. AID PROJECT		



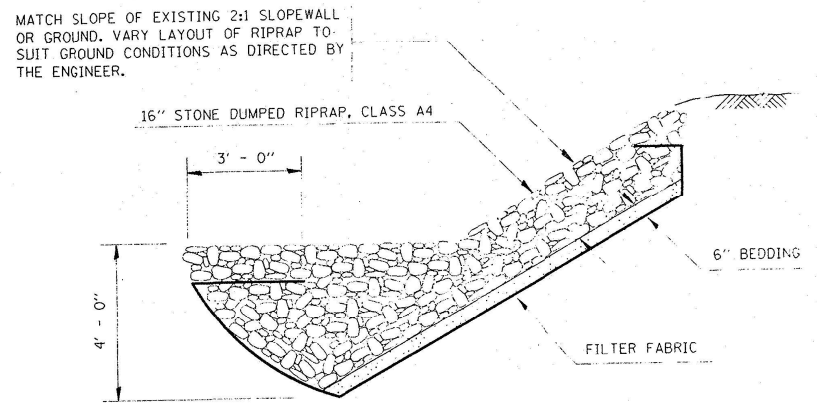
**WEST SLOPEWALL**



**EAST SLOPEWALL**

**LEGEND**

	CHANNEL EXCAVATION
	SLOPEWALL REMOVAL <del>DELETED</del>
	RIPRAP
	CRACK FILLING



**STONE RIPRAP DETAIL**

NOT TO SCALE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 STRUCTURE REHABILITATION  
 FA 41 (ILL 17)  
 SECTION 13BR-1  
 KANKAKEE COUNTY  
 STR NO 046-0031  
 STA 849+99

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_ DRAWN BY SPK  
 CHECKED BY \_\_\_\_\_

REVISIONS	
NAME	DATE

**FOR INFORMATION ONLY**

MODEL: Existing Structure Plans - Existing Structure Plans-10 (Final)  
 FILE NAME: C:\CD\DOTCAD\_CAD\_1\010202\Comp\Drawings\Spaces\DOTCAD\_CONNECT\Work\Sta12\0254.DOT D3\Work Order 8\CADD Data\Sheets\0254.D3\StructureElev.dgn  
 Date: 7/9/2024 9:58:56 AM  
 P30869001 P30869004A.DGN



USER NAME = tbarker	DESIGNED - TJB	REVISED -
PLOT SCALE = 0.16666633' / in.	DRAWN - TJB	REVISED -
PLOT DATE = 3/7/2024	CHECKED - JNH	REVISED -
	DATE -	REVISED -

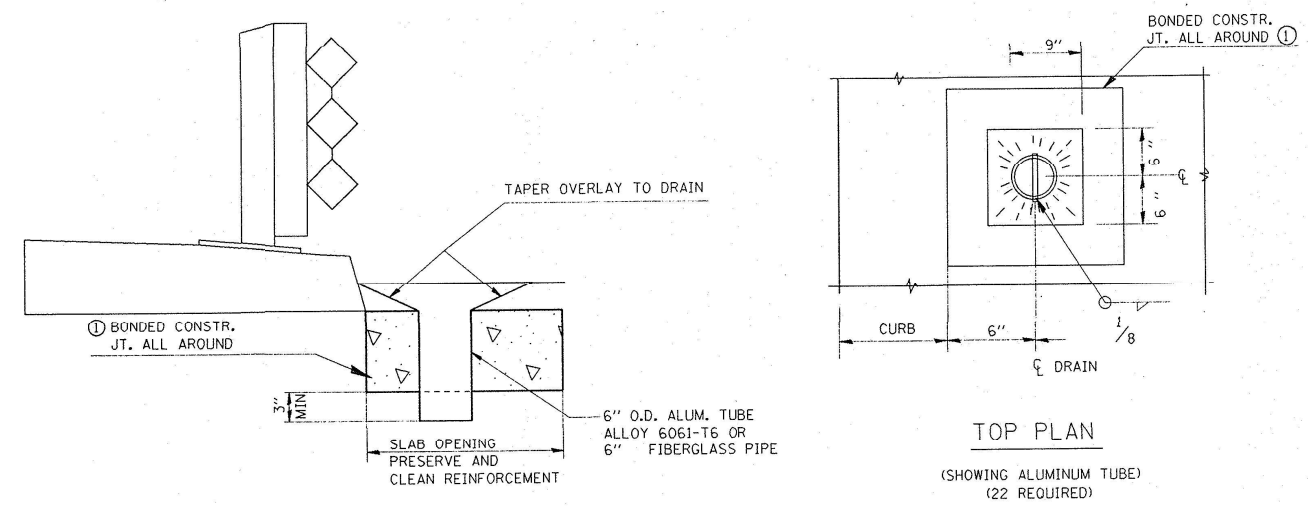
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>EXISTING STRUCTURE PLANS    IL 17 OVER HORSE CREEK</b>			
SCALE: NTS	SHEET 11	OF 12 SHEETS	STA. TO STA.

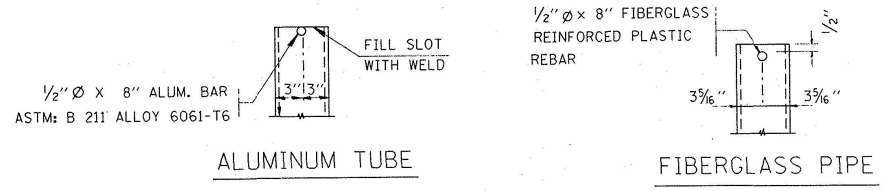
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	63
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				

F.A. DIST.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
FA 41	*	KANKAKEE	64	54
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

\* (12)RS-3, BR-1; (13)RS-2, BR-1, BR-2, BR-3;  
 (14)RS-2, BR-1, BR-2  
 SHEET 6 OF 6



1. ALL BONDED CONSTRUCTION JOINTS SHALL BE IN ACCORDANCE WITH ARTICLE 504.13 (a)2 STANDARD SPECIFICATIONS



**DECK DRAIN REPLACEMENT DETAIL**  
 Fiberglass pipe shall conform to ASTM D2996 with short term rupture strength hoop tensile stress of 30000 p.s.i. min. The surface of the fiberglass pipe shall free of bond inhibiting agents. The exterior surfaces of the fiberglass deck drain shall be cleaned and given a washcoat pretreatment in accordance with Steel Structures Painting Councils Spec. SSPC-SPI & SSPC-Paint 27 prior to painting with a vinyl enamel coat. The color shall be light grey Munsell No. 10Y 7/1. Painting of the fiberglass deck drains will not be required when the exterior surfaces of the furnished drains are coated by the manufacturer with a pigment that matches the color of the concrete beams.

NOT TO SCALE

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 STRUCTURE REHABILITATION  
 FA 41 (ILL 17)  
 SECTION 13BR-1  
 KANKAKEE COUNTY  
 STR NO 046-0031  
 STA 849+99

SCALE: VERT. \_\_\_\_\_  
 HORIZ. \_\_\_\_\_  
 DATE \_\_\_\_\_

DRAWN BY SAF  
 CHECKED BY \_\_\_\_\_

**FOR INFORMATION ONLY**

MODEL: Existing Structure Plans - Existing Structure Plans-1 (13br-1)  
 FILE NAME: C:\CD\DOTCAD\_CAD\_1\10102\Comp\Drawings\Space\DOTCAD\_CONNECT\WorkSpace\DOTCAD\_CONNECT\DOTD3\Work\046-0031\DOTD3\046-0031-06.dgn  
 Dec. 29, 1993 05:48:56  
 (P308690) P308690A.DGN



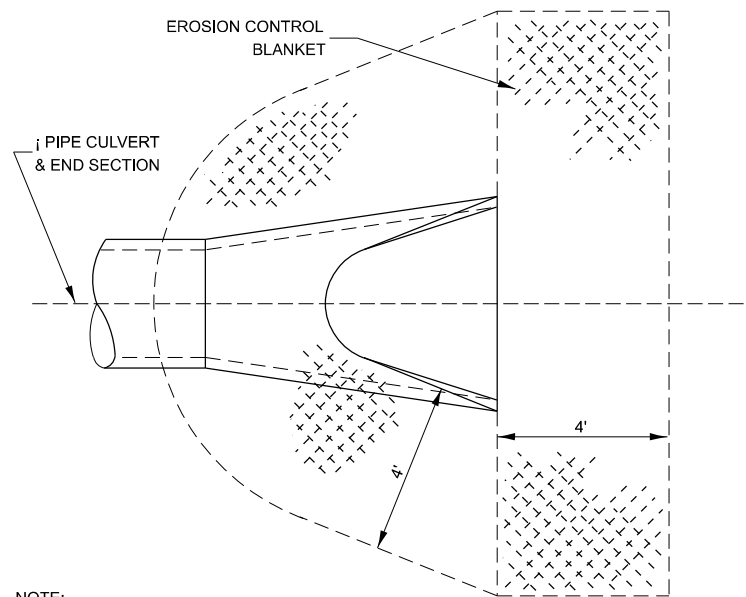
USER NAME = tbarker	DESIGNED - TJB	REVISED -
PLOT SCALE = 0.16666833 / in.	DRAWN - TJB	REVISED -
PLOT DATE = 3/7/2024	CHECKED - JNH	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

<b>EXISTING STRUCTURE PLANS IL 17 OVER HORSE CREEK</b>	
SCALE: NTS	SHEET 12 OF 12 SHEETS
STA.	TO STA.

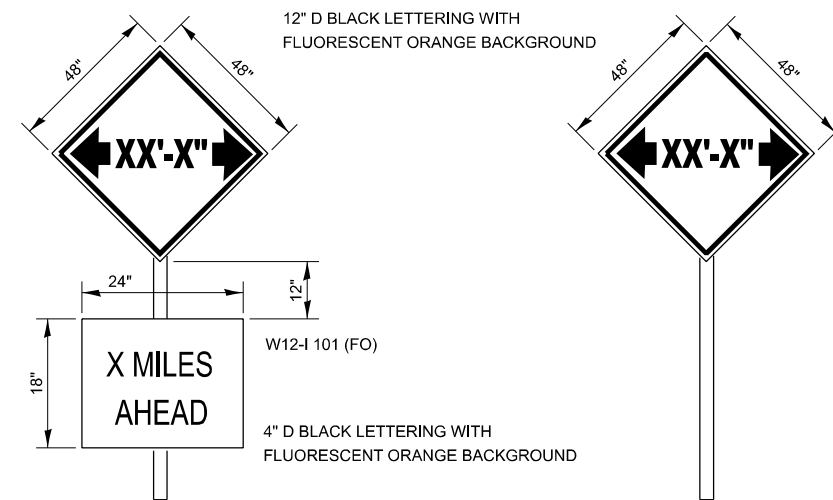
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	64
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				





NOTE:  
TO BE USED AT ALL END SECTIONS

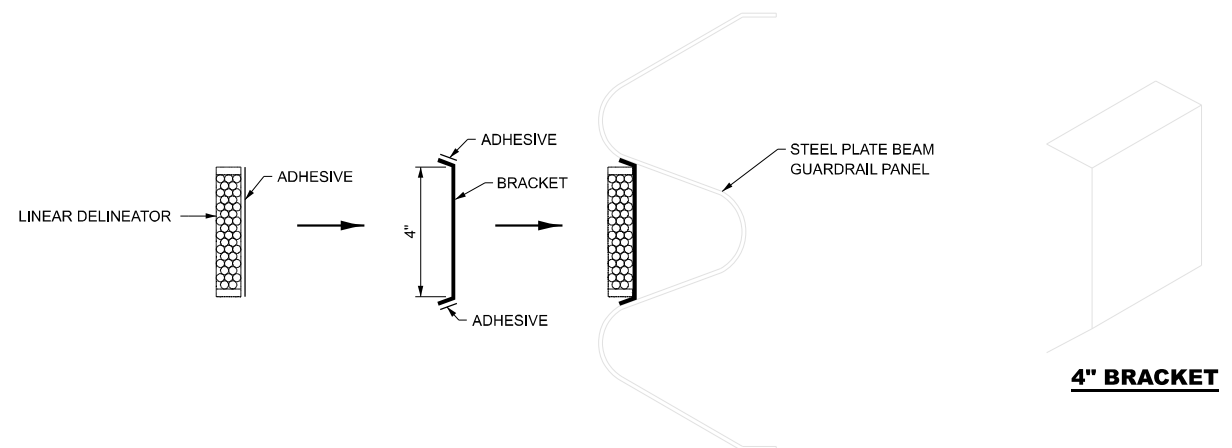
### DETAIL OF EROSION CONTROL BLANKET LINING AROUND END SECTION



TO BE POST MOUNTED AS SHOWN ELSEWHERE IN THE PLANS.

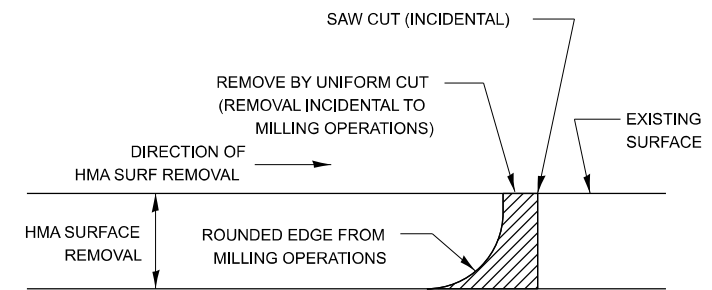
COST OF SUPPLYING, INSTALLING, MAINTAINING AND REMOVING WIDTH RESTRICTION SIGNS  
SHALL BE INCLUDED IN THE COST OF THE TRAFFIC CONTROL AND PROTECTION PAY ITEMS.

### WIDTH RESTRICTION SIGNING DETAILS



### LINEAR DELINEATOR APPLICATION TO STANDARD GALVANIZED GUARDRAIL

LINEATOR DELINEATOR SHALL BE APPLIED ACCORDING TO THE MANUFACTURER'S RECOMMENDATIONS



NOTE:

WHEN MILLING OPERATIONS PRODUCE A ROUNDED EDGE,  
THEN A SAW CUT SHALL BE USED TO MANUFACTURE  
A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL.  
THE ENGINEER SHALL BE THE SOLE JUDGE  
CONCERNING THE USE OF THIS DETAIL.

### HMA DETAIL AT BUTT JOINTS

MODEL: R:\work\Drawings\Drawings\Detail\Sheet1.dwg  
FILE NAME: G:\CAD\DOT\CAD\_CDD\_V1\101202 Configuration\Workspaces\DOT\CAD\_CONNECT\WorkSpace12\0254\DOT D3 Work Order 8\ICADD\_Data\Sheet101666\_10-01.dwg



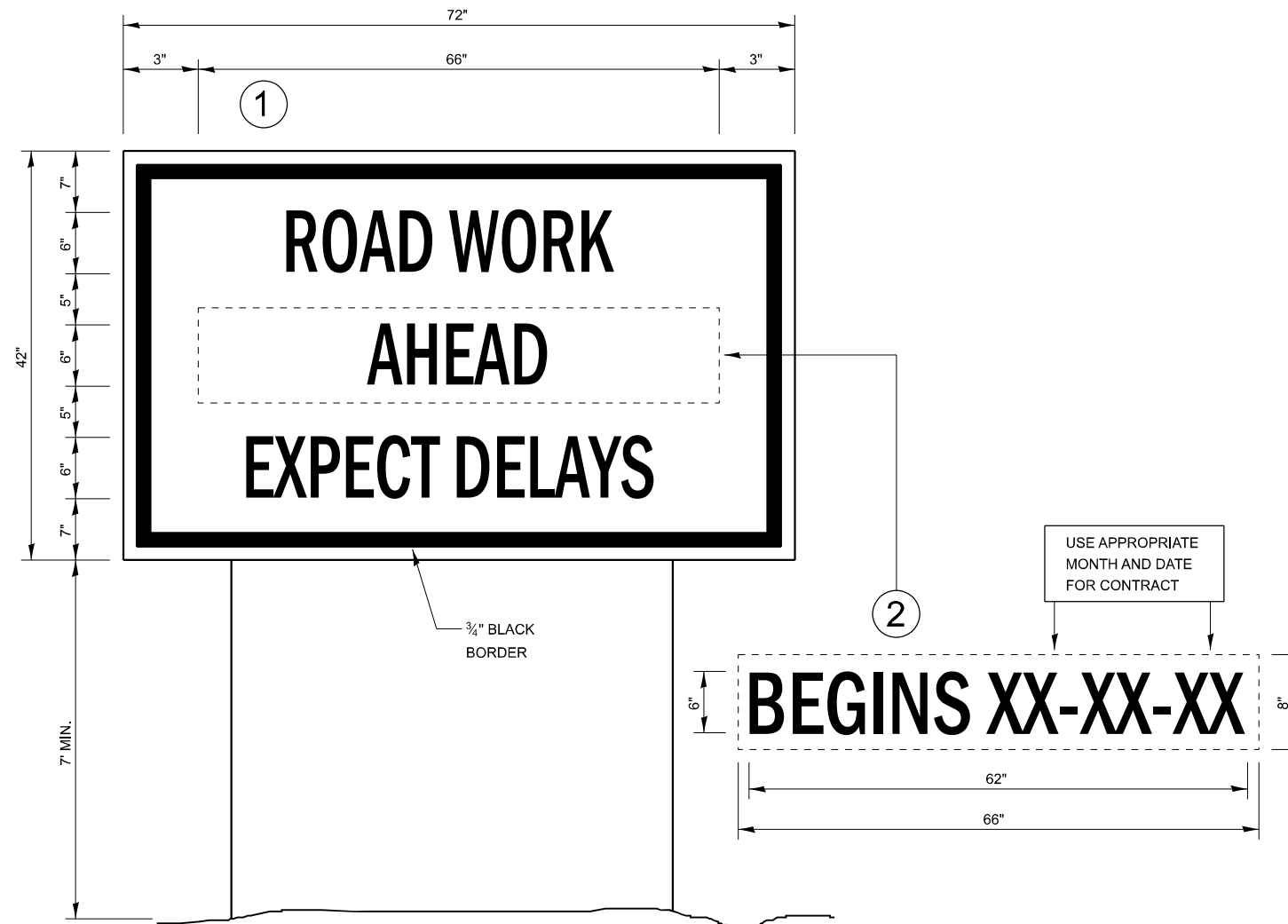
USER NAME = tbarker	DESIGNED - TJB	REVISED -
PLOT SCALE = 0.16666633' / in.	DRAWN - TJB	REVISED -
PLOT DATE = 3/13/2024	CHECKED - JNH	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

ROADWAY DETAILS

SCALE: NTS SHEET 1 OF 2 SHEETS STA. TO STA.

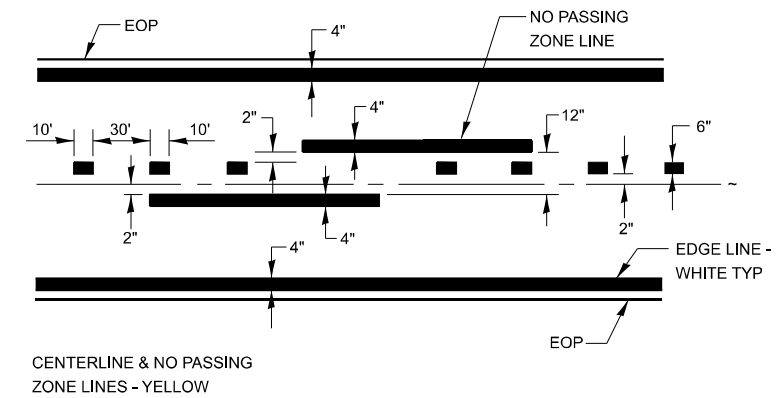
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	65
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				



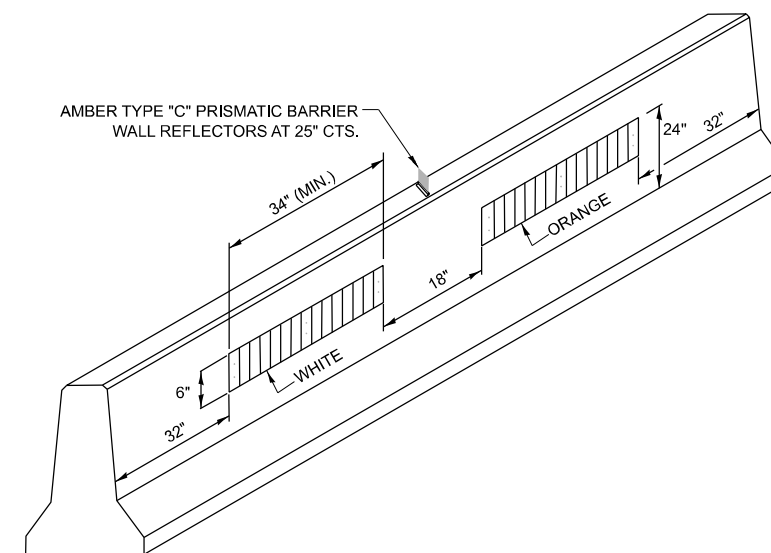
**TEMPORARY INFORMATION SIGNING**

**NOTES:**

1. USE 6" D BLACK LETTERING ON FLUORESCENT ORANGE BACKGROUND.
2. ERECT SIGNS AT LOCATIONS IN ADVANCE OF THE "ROAD CONSTRUCTION AHEAD" SIGNS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN 1 WITH INSTALLED PANEL 2 A MINIMUM OF ONE WEEK PRIOR TO THE START OF THE LANE CLOSURE.
4. REMOVE PANEL 2 ON THAT DATE.
5. SEE SPECIAL PROVISION "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. WILL BE PAID FOR PER SQ FT AS "TEMPORARY INFORMATION SIGNING". EACH SIGN = 21 SQ FT AND THE DATE PANEL 2 WILL NOT BE MEASURED SEPARATELY FOR PAYMENT.



**PAVEMENT MARKING**



**LINEAR DELINEATOR PANELS FOR TEMPORARY CONCRETE BARRIER**

MODEL: R:\work\Drawings\Roadway\Detail\Sheet\Sheet1.dwg  
 FILE NAME: C:\CAD\DOT\CAD\_CDD\_V1\101024\Comp\pavement\Workspaces\DOT\CAD\_CONNECT\WorkSpace12\0254\DOT D3\Work Order 8\ICADD\_Data\Sheet101024.dwg



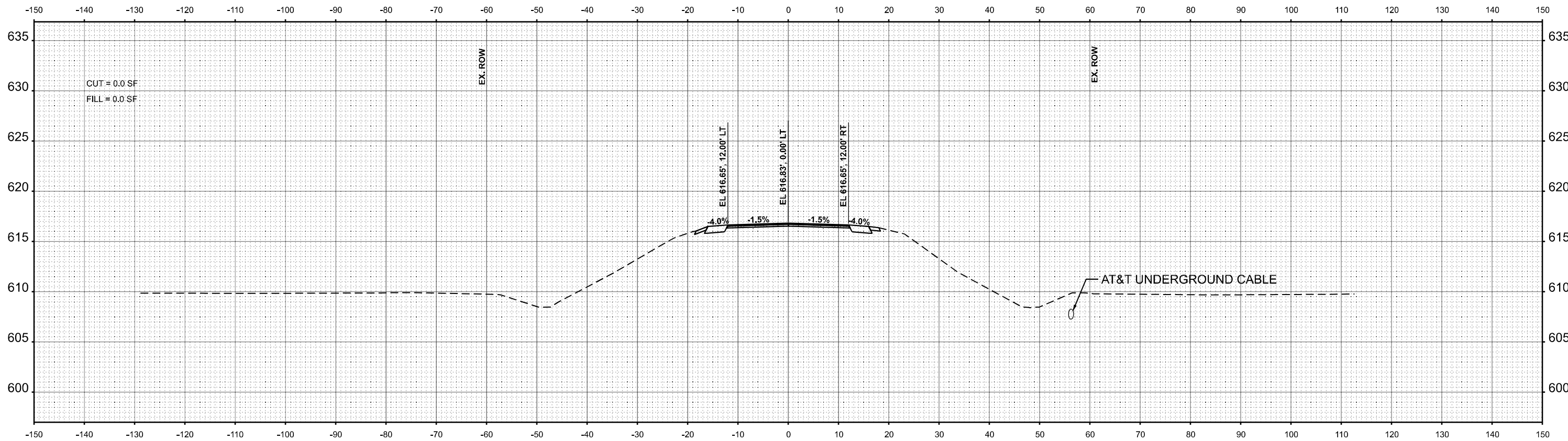
USER NAME = tbarker	DESIGNED - TJB	REVISED -
	DRAWN - TJB	REVISED -
PLOT SCALE = 0.16666633 / in.	CHECKED - JNH	REVISED -
PLOT DATE = 3/13/2024	DATE -	REVISED -

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

<b>ROADWAY DETAILS</b>	
SCALE: NTS	SHEET 2 OF 2 SHEETS STA. TO STA.

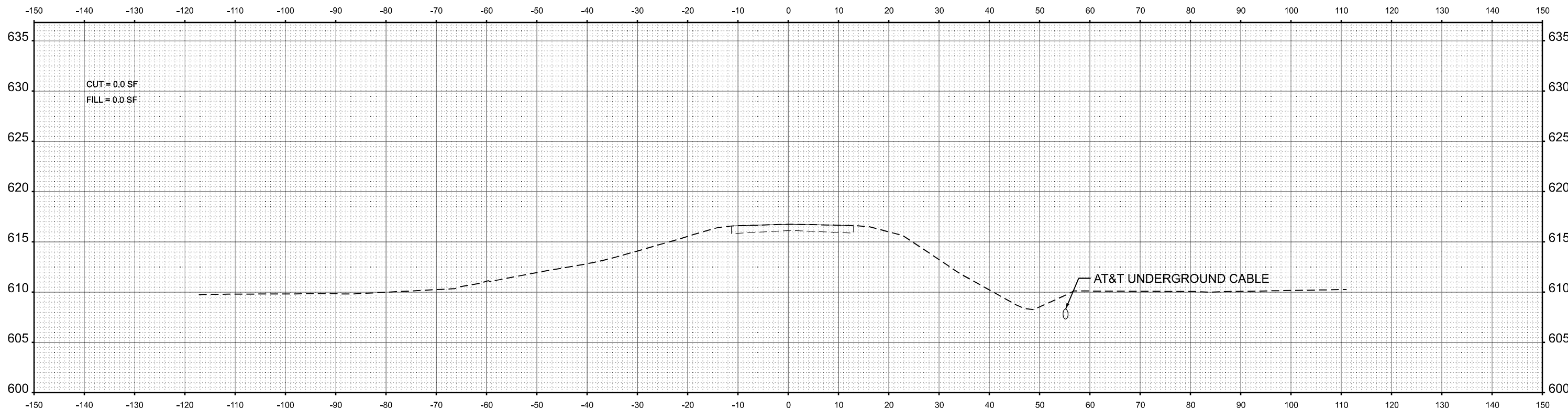
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	66
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				

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



STA 846+50.00

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



STA 846+00.00

MODEL: IL 17 Cross Sections - 846+00.00 (Sheet)  
FILE NAME: G:\DOD\DOT\02\02\10\1022\Configure\WorkSpaces\DOT\DOT\CONNECT\WorkSpace2\0225-DOT-D3\Work Order 8\CADD Data\Sheet036L10.dwg



USER NAME	= tbarker	DESIGNED	- TJB	REVISED	-
		DRAWN	- TJB	REVISED	-
PLOT SCALE	= 0.16666833' / in.	CHECKED	- JNH	REVISED	-
PLOT DATE	= 3/19/2024	DATE	-	REVISED	-

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SCALE: 1"=10'		SHEET 1 OF 11 SHEETS		STA. _____ TO STA. _____	
---------------	--	----------------------	--	--------------------------	--

CROSS SECTIONS  
IL 17 OVER HORSE CREEK

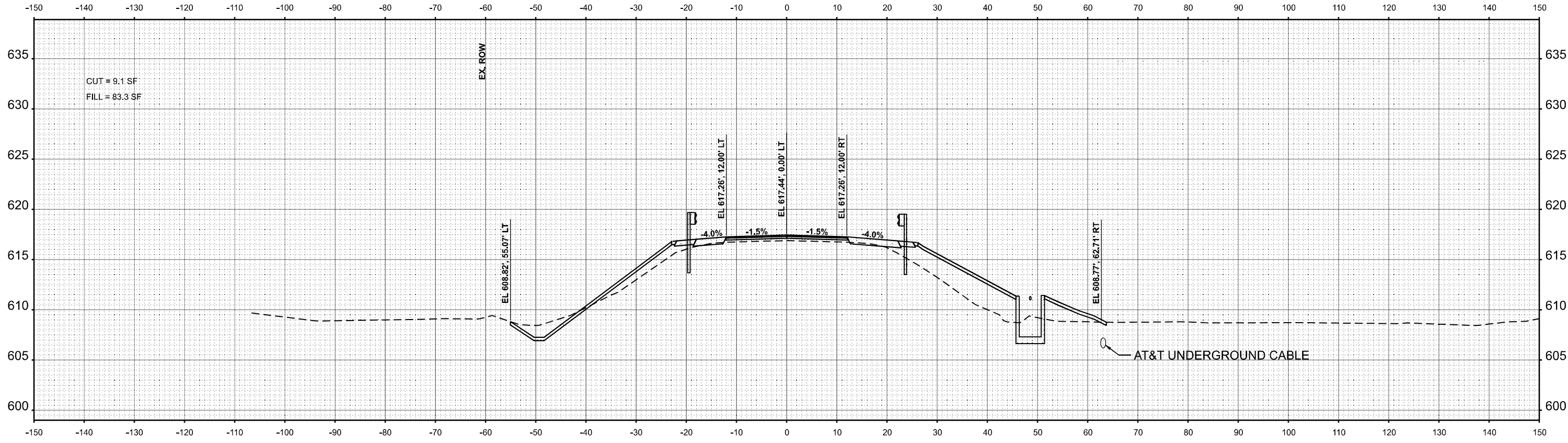
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	67
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				



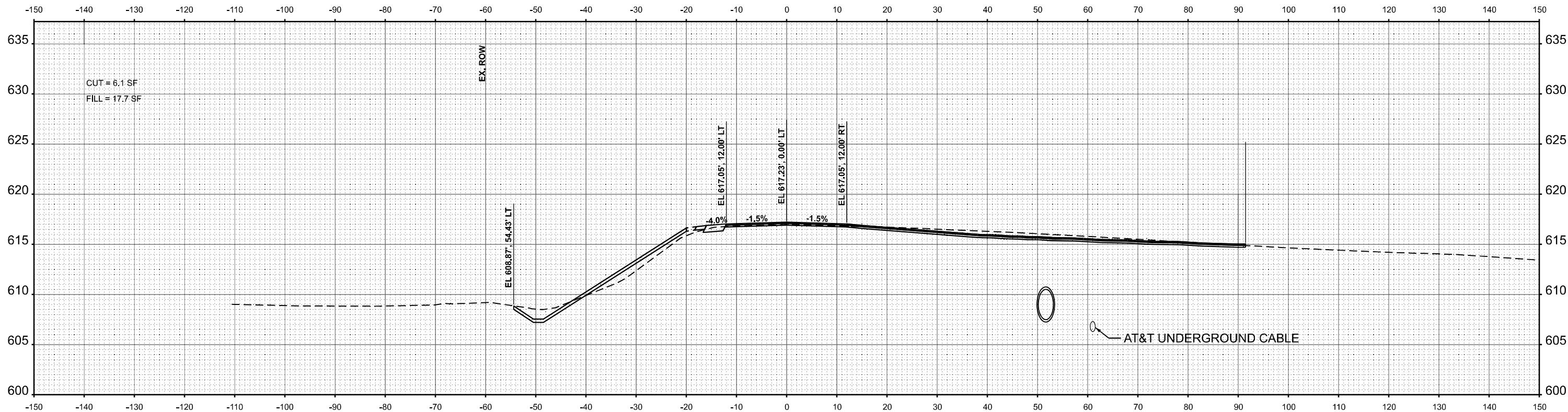
FINAL SURVEY NO.	SURVEYED	DATE
NOTE BOOK	PLOTTED	
AREAS CHECKED	TEMPLATE	
	AREAS	
	CHECKED	

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

MODEL: IL 17 Cross Sections - 848+00.00 (Sheet)  
 FILE NAME: G:\CADD\DOT\CD\02\17\10\1022\Configure\Work\States\DOT\CD\CONNECT\Work\Sta\210259\DOT CD Work Order 81CADD Data\Sheet036L10.dwg



STA 848+50.00



STA 848+00.00



USER NAME = tbarker	DESIGNED - TJB	REVISED -
	DRAWN - TJB	REVISED -
PLOT SCALE = 0.16666833' / in.	CHECKED - JNH	REVISED -
PLOT DATE = 3/19/2024	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

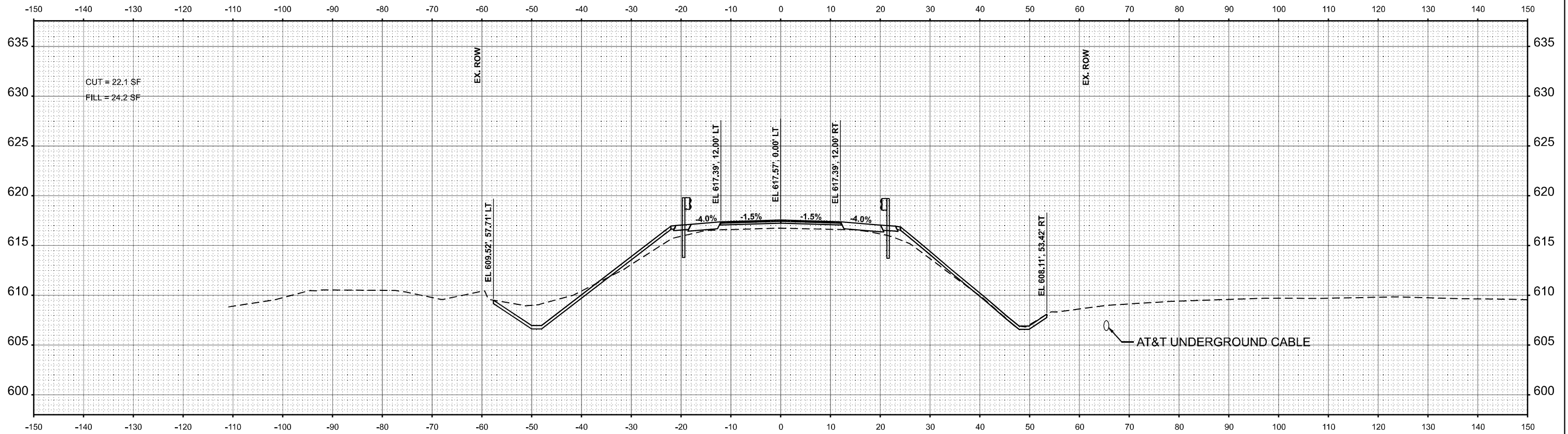
CROSS SECTIONS	
IL 17 OVER HORSE CREEK	
SCALE: 1"=10'	SHEET 3 OF 11 SHEETS
STA. _____	TO STA. _____

F.A.P. RTE. 41	SECTION (13)BR-2	COUNTY KANKAKEE	TOTAL SHEETS 79	SHEET NO. 69
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL: IL 17 Cross Sections - 849+00.00 (Sheet)  
 FILE NAME: S:\ADD\DOT\CD\CD\2\1\10\102\configuration\WorkSpaces\DOT\CD\CONNECT\WorkSpace2\10259\DOT CD Work Order 8\CADD Data\Sheet036E10.dwg



STA 849+00.00



USER NAME = tbarker	DESIGNED - TJB	REVISED -
	DRAWN - TJB	REVISED -
PLOT SCALE = 0.16666833' / in.	CHECKED - JNH	REVISED -
PLOT DATE = 3/19/2024	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 IL 17 OVER HORSE CREEK

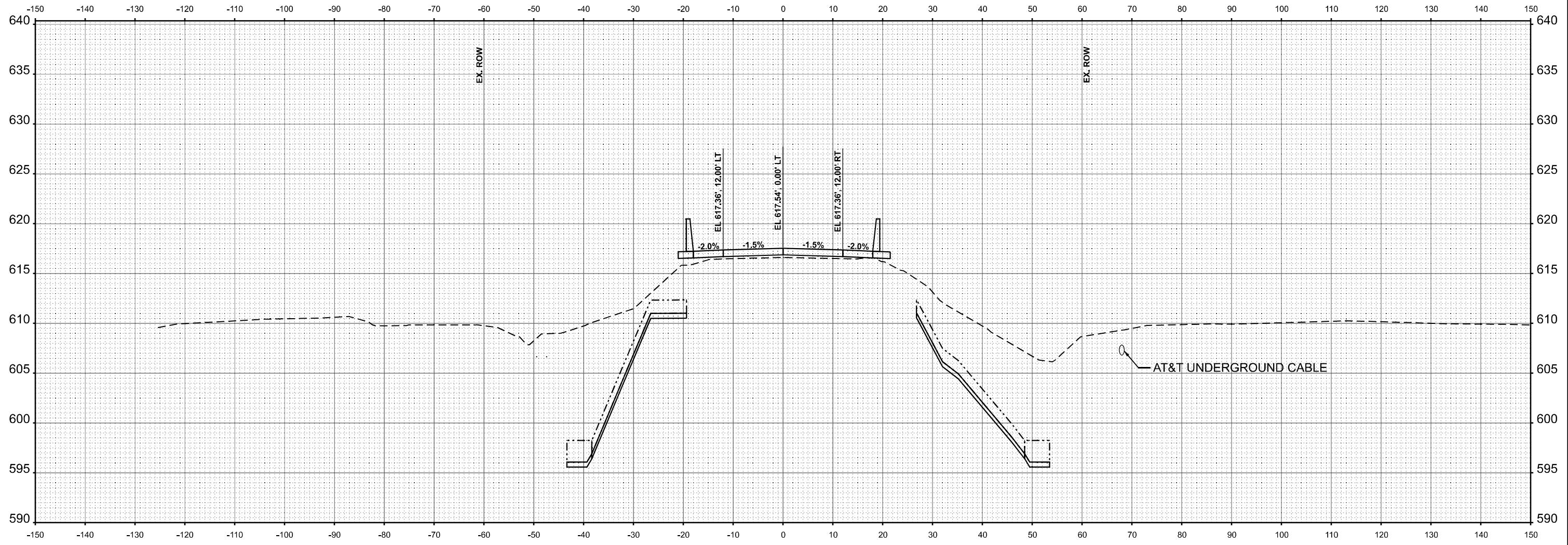
SCALE: 1"=10' SHEET 4 OF 11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	70
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL: IL 17 Cross Sections - 849+50.00 (Sheet)  
 FILE NAME: G:\ADD\DOT\CD\CD\2\1\10\1022\Configure\WorkSpace\DOT\CD\CONNECT\WorkSpace\10225-DOT CD\Work Order 8\CADD\Draw\Sheets\036L10.dwg



STA 849+50.00



USER NAME = tbarker	DESIGNED - TJB	REVISED -
PLOT SCALE = 0.16666833' / in.	DRAWN - TJB	REVISED -
PLOT DATE = 3/19/2024	CHECKED - JNH	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

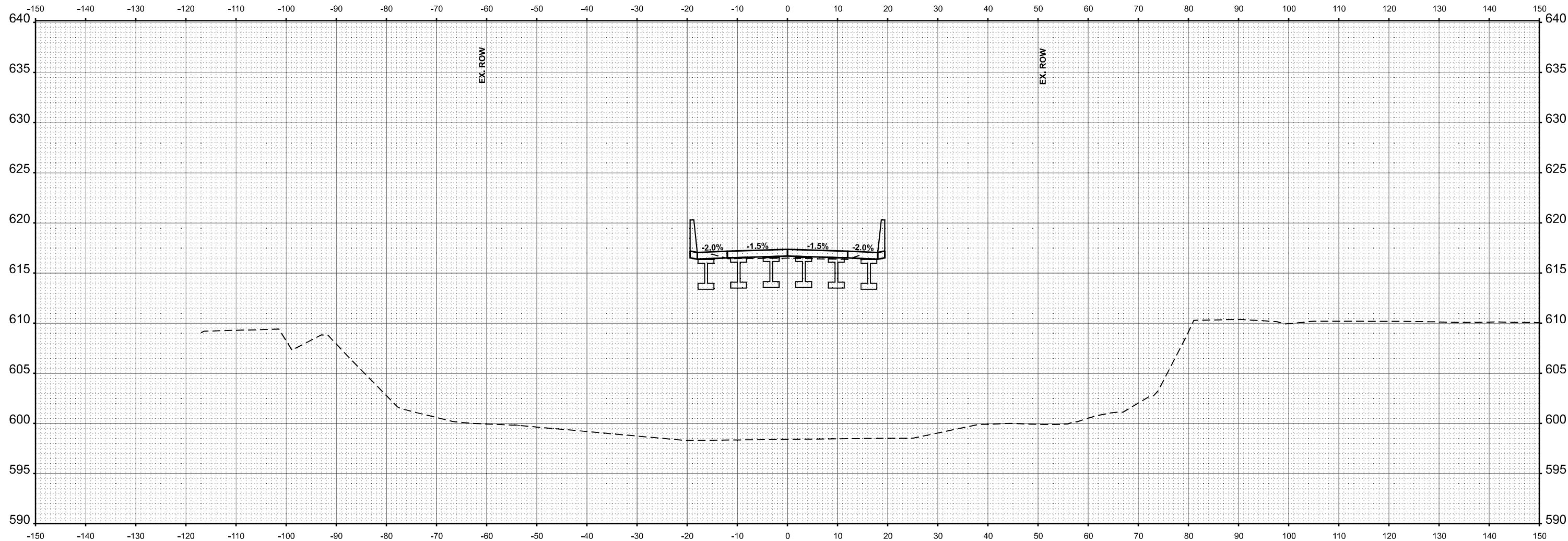
CROSS SECTIONS			
IL 17 OVER HORSE CREEK			
SCALE: 1"=10'	SHEET 5	OF 11 SHEETS	STA. _____ TO STA. _____

F.A.P. RTE. 41	SECTION (13)BR-2	COUNTY KANKAKEE	TOTAL SHEETS 79	SHEET NO. 71
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL: IL 17 Cross Sections - 850+00.00 (Sheet)  
 FILE NAME: G:\ADD\DOT\CD\CD\Y10\1022\Configure\WorkSpace\DOT\CD\CONNECT\WorkSpace\10229-DOT CD Work Order 8\CADD Data\Sheet036E10.dwg



STA 850+00.00



USER NAME = tbarker	DESIGNED - TJB	REVISED -
	DRAWN - TJB	REVISED -
PLOT SCALE = 0.16666833' / in.	CHECKED - JNH	REVISED -
PLOT DATE = 3/19/2024	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS  
 IL 17 OVER HORSE CREEK

SCALE: 1"=10' SHEET 6 OF 11 SHEETS STA. TO STA.

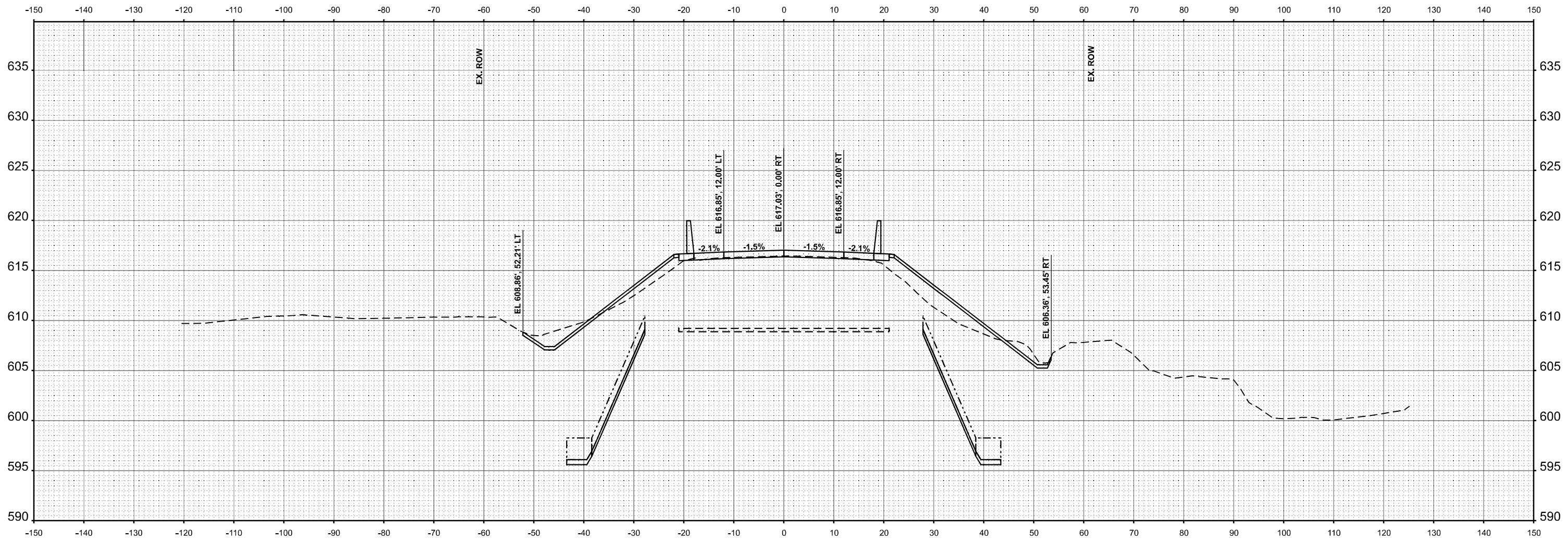
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	72
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				



FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE

MODEL: IL 17 Cross Sections - 66L-850.00 (Sheet)  
 FILE NAME: G:\ADD\DOT\CD\CD\_2\1\10\22\Configure\WorkSpaces\DOT\CD\CONNECT\WorkSpace\10259-DOT CD Work Order 66L-850.00\Drawings\036L 10.dwg



STA 850+50.00



USER NAME = tbarker	DESIGNED - TJB	REVISED -
PLOT SCALE = 0.16666833' / in.	DRAWN - TJB	REVISED -
PLOT DATE = 3/19/2024	CHECKED - JNH	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION

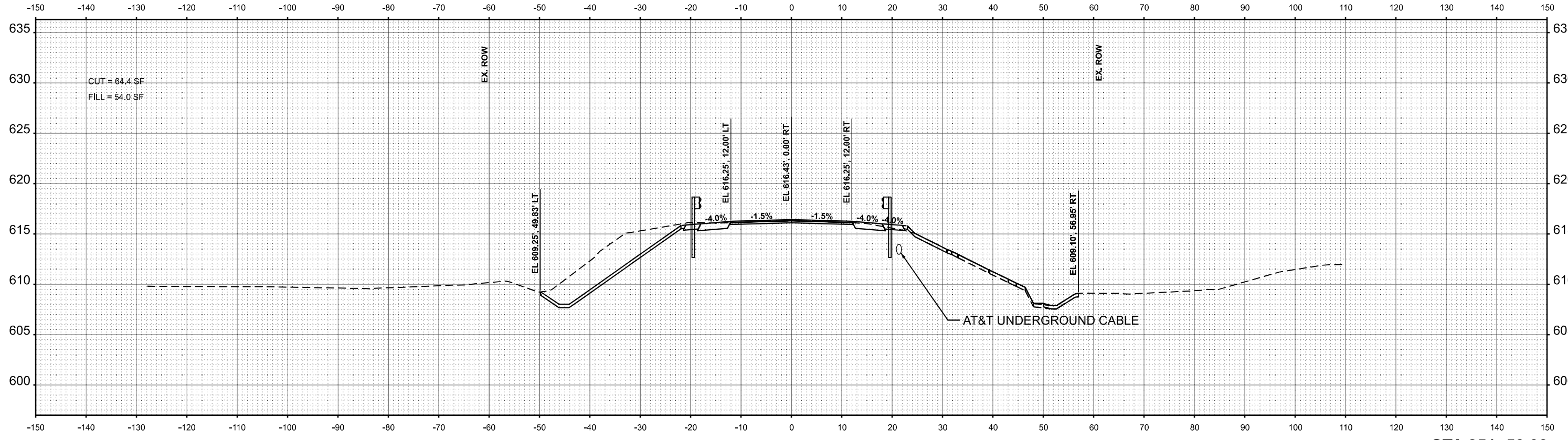
CROSS SECTIONS  
 IL 17 OVER HORSE CREEK

SCALE: 1"=10' SHEET 7 OF 11 SHEETS STA. \_\_\_\_\_ TO STA. \_\_\_\_\_

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	73
CONTRACT NO. 66L10				

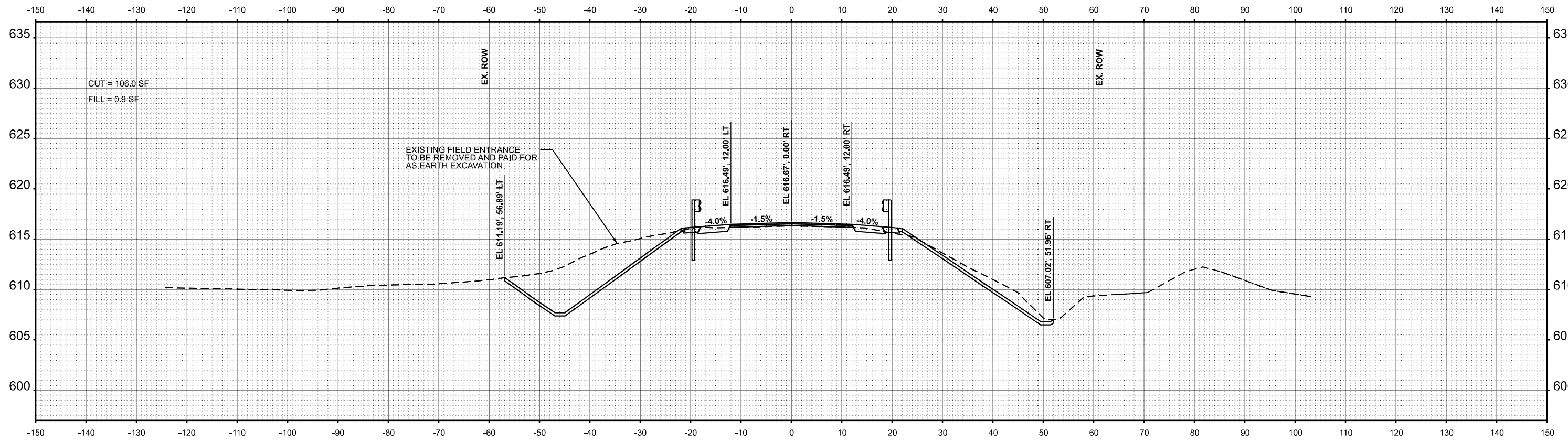
ILLINOIS FED. AID PROJECT

FINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



STA 851+50.00

ORIGINAL SURVEY NO.	SURVEYED PLOTTED TEMPLATE AREAS CHECKED	BY	DATE



STA 851+00.00

MODEL: IL 17 Cross Sections - 851+00.00 (Sheet)  
FILE NAME: G:\ADD\DOT\CD\CD\Y\10\1022\Configure\WorkSpace\DOT\CD\CONNECT\WorkSpace\10225-DOT CD Work Order 816000 Data\Sheet036E10.dwg



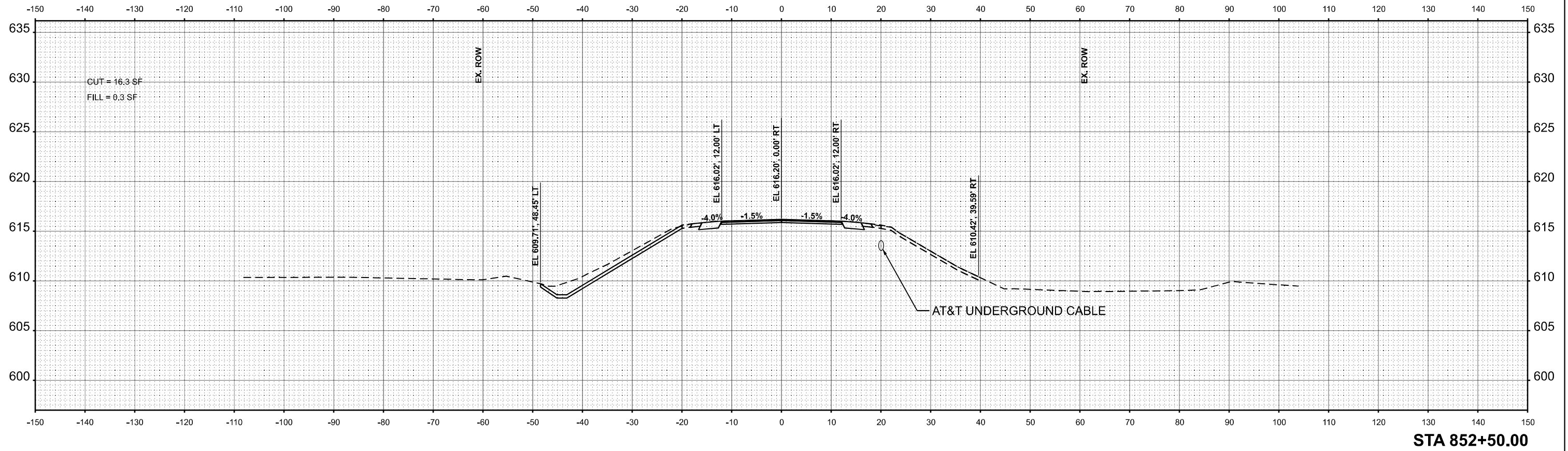
USER NAME = tbarker	DESIGNED - TJB	REVISED -
PLOT SCALE = 0.16666833' / in.	DRAWN - TJB	REVISED -
PLOT DATE = 3/19/2024	CHECKED - JNH	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

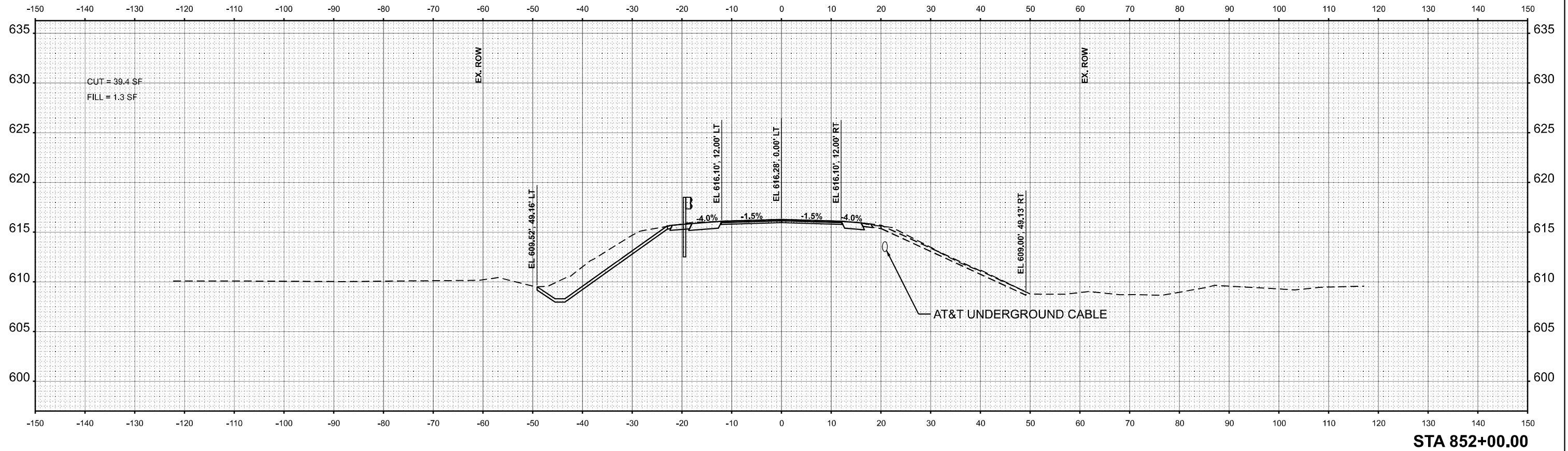
CROSS SECTIONS			
IL 17 OVER HORSE CREEK			
SCALE: 1"=10'	SHEET 8	OF 11 SHEETS	STA. _____ TO STA. _____

F.A.P. RTE. 41	SECTION (13)BR-2	COUNTY KANKAKEE	TOTAL SHEETS 79	SHEET NO. 74
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				

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



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



MODEL: IL 17 Cross Sections - 662-00-00 (Sheet)  
FILE NAME: G:\CADD\DOT\CD\CD\Y\10\1022 Configuration\Work\States\DOT\CD\CONNECT\Work\Sta\21025-00\DOT CD Work Order 61666\Drawings\Sheet\036L 10-ss.dgn



USER NAME = tbarker	DESIGNED - TJB	REVISED -
PLOT SCALE = 0.16666833' / in.	DRAWN - TJB	REVISED -
PLOT DATE = 3/19/2024	CHECKED - JNH	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS	
IL 17 OVER HORSE CREEK	
SCALE: 1"=10'	SHEET 9 OF 11 SHEETS
STA. _____	TO STA. _____

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
41	(13)BR-2	KANKAKEE	79	75
CONTRACT NO. 66L10				
ILLINOIS FED. AID PROJECT				







