

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED
LOCAL BRIDGE FORMULA PROGRAM
PILOT GROVE ROAD DISTRICT
SECTION 24-14119-00-BR
T.R. 91 (2350N)
HANCOCK COUNTY
FEDERAL PROJ. NO.: 8SIR(346)
JOB NO.: C-96-012-26

TR	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	24-14119-00-BR	HANCOCK	21	1

ILLINOIS CONTRACT NO. 93840

INDEX OF SHEETS

- 1 COVER SHEET
- 2 SUMMARY OF QUANTITIES /GENERAL NOTES
- 3 SCHEDULE OF QUANTITIES
- 4 TYPICAL SECTIONS
- 5 HORIZONTAL CONTROL
- 6 PLAN AND PROFILE
- 7 TRAFFIC CONTROL PLAN
- 8-16 STRUCTURE PLANS
- 17-21 CROSS SECTIONS

ILLINOIS HIGHWAY STANDARDS

000001-08	701001-02	701901-10
280001-07	701006-05	725001-01
515001-04	701011-04	BLR 21-9

DESIGN DESIGNATION

TOWNSHIP ROAD 91 (2350N)
FUNCTIONAL CLASS: LOCAL ROAD
ADT = 75 (2023) 76 (2046)
DESIGN SPEED = 30 MPH

UTILITIES

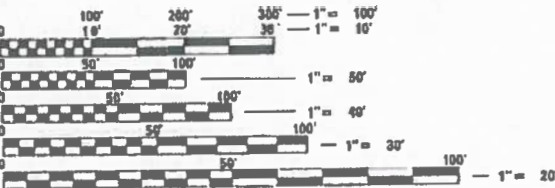
DALLAS RURAL WATER DISTRICT
RODNEY PENCE
(309) 337-0435

MCDONOUGH TELEPHONE COOP
CLINT WISSELEAD
(309) 776-3211

PROJECT DESCRIPTION

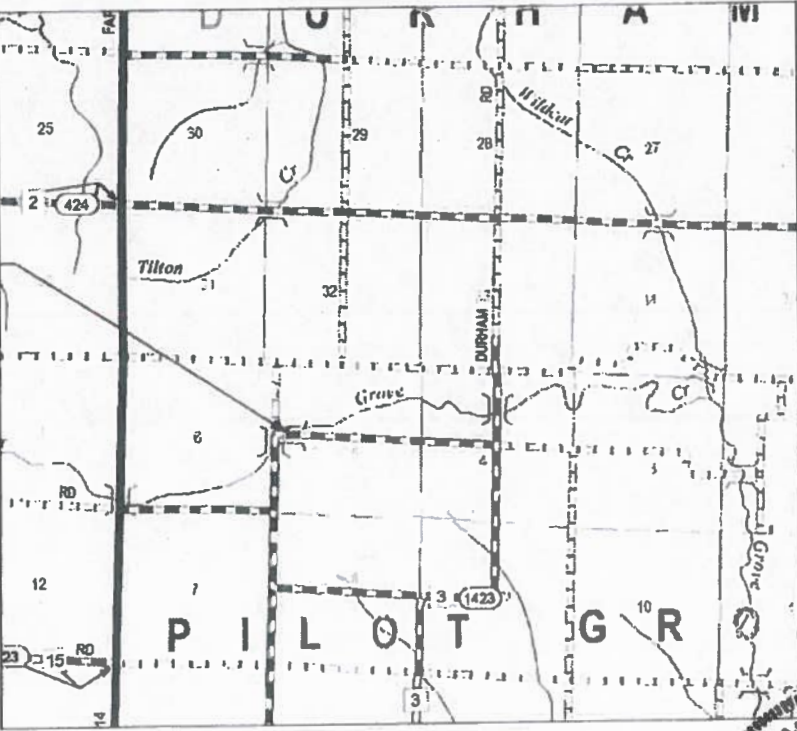
Project consists of removing existing structure number 034-4816, a single-span 17" deep precast prestressed concrete deck beam bridge on concrete pile caps and closed timber abutments and timber piles carrying Township Road 91 (2350N) over Grove Creek. The back to back length is 49'-4" and the out to out width is 26'-0". New construction consists of 9-27" deep PPC Deck Beam bridge on integral abutments and steel H-piling. Additional work includes aggregate pavement, earth shoulders, seeding, disposing of the existing beams, riprap, and other miscellaneous items.

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



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.

BEGIN STA. 3+85.00
PROPOSED S.N. 034-4817
STA. 5+55.00
ONE SPAN OVER GROVE CREEK
62'-0" BK TO BK ABUTMENTS
9-27" PPC DECK BEAMS
END STA 6+65.00



LOCATION MAP

SCALE: 1" = 2000'
GROSS /NET LENGTH OF SECTION = 280.00 FT. = 0.053 MILE



RYAN J. PHELPS
REGISTERED PROFESSIONAL ENGINEER
STATE OF ILLINOIS NO. 062-063007
LICENSE EXPIRES NOVEMBER 30, 2025



LOCATION OF SECTION INDICATED THUS: -

APPROVED 4/4/25
Elgin Berry
COUNTY ENGINEER

APPROVED 4/4/25
Jerry Green
PILOT GROVE ROAD DISTRICT HIGHWAY COMMISSIONER

APPROVED May 1, 2025
Brian Wright
DISTRICT SIX ENGINEER OF LOCAL ROADS & STREETS

Releasing For
Bid Based on
Limited Review
May 1, 2025
Lola Kensch
REGION FOUR ENGINEER

Plans prepared by:
KLINGNER
& ASSOCIATES, P.C.
Engineers • Architects • Surveyors

Quincy, Illinois
816 North 34th Street
217 223-3870
www.klingner.com
Gadsburg, IL, Burlington, IA
Pella, IA, Hannibal, MO, Columbia, MO
ILL DESIGN FIRM NO.: 1842738

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
20200100	EARTH EXCAVATION	CU YD	150
20300100	CHANNEL EXCAVATION	CU YD	136
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	455
25000200	SEEDING, CLASS 2	ACRE	0.25
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	23
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	23
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	23
25000700	AGRICULTURAL GROUND LIMESTONE	TON	0.5
25100115	MULCH, METHOD 2	ACRE	0.25
28000200	EARTH EXCAVATION FOR EROSION CONTROL	CU YD	25
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	50
28000400	PERIMETER EROSION BARRIER	FOOT	525
28100209	STONE RIPRAP, CLASS A5	TON	470
28200200	FILTER FABRIC	SQ YD	358
35101400	AGGREGATE BASE COURSE, TYPE B	TON	294
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	913
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	89
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	68
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	56
44000100	PAVEMENT REMOVAL	SQ YD	404
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	120
50300225	CONCRETE STRUCTURES	CU YD	33.0
50400505	PRECAST PRESTRESSED CONCRETE DECK BEAMS (27" DEPTH)	SQ FT	1619
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	4040
+ 50900205	STEEL RAILING, TYPE S1	FOOT	124
51201400	FURNISHING STEEL PILES HP10X42	FOOT	176
51202305	DRIVING PILES	FOOT	176
51203400	TEST PILE STEEL HP10X42	EACH	2
51204650	PILE SHOES	EACH	10
51500100	NAME PLATES	EACH	1
58100200	WATERPROOFING MEMBRANE SYSTEM	SQ YD	186
58300100	PORTLAND CEMENT MORTAR FAIRING COURSE	FOOT	480
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	56
67100100	MOBILIZATION	L SUM	1
+ 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1

+ SPECIALTY ITEM

GENERAL NOTES

1. THE NOMINAL THICKNESS FOR BASE AND SURFACE COURSES ARE SHOWN ON THE TYPICAL SECTIONS, STANDARDS, SCHEDULES, OR SPECIAL DETAILS. THE CONSTRUCTED THICKNESS OF THE ABOVE ITEMS SHALL NOT BE LESS THAN 90 PERCENT OF THE NOMINAL THICKNESS AT ANY LOCATION.

THE THICKNESS OF THE BITUMINOUS MIXTURE 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 BITUMINOUS MIXTURE IS PLACED.
2. WHERE SECTION OR SUBSECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER AND AN AUTHORIZED SURVEYOR OR AGENT, HAS WITNESSED OR OTHERWISE REFERENCED THEIR LOCATION.
3. UTILITIES ARE SHOWN IN ACCORDANCE WITH THE BEST AVAILABLE INFORMATION, AND THEIR TRUE LOCATION IS NOT GUARANTEED TO BE AS SHOWN ON THE PLANS. IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT LOCATION OF ALL UTILITIES AND CARRY OUT HIS OR HER OPERATIONS ACCORDINGLY.
4. ADJUSTMENTS OF UTILITY LOCATIONS SHALL BE MADE BY THE OWNER, UNLESS OTHERWISE NOTED.
5. ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION, AS INDICATED BY THE SUB-NUMBER ON THE COVER SHEET.
6. ALL DETAILS IN THESE PLANS SHALL GOVERN THE CONSTRUCTION OF THIS PROJECT, AND IN CASE OF CONFLICT WITH ANY STANDARD DRAWINGS INCLUDED, THE SAID DETAILS SHALL GOVERN.
7. THE EXISTING ROAD SIGNS THAT INTERFERE WITH CONSTRUCTION SHALL BE REMOVED AND RELOCATED AS DIRECTED BY THE ENGINEER. THIS WORK WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED AS PART OF THE CONTRACT AND NO COMPENSATION WILL BE ALLOWED.
8. IN ACCORDANCE WITH STATE OF ILLINOIS P.A. 86-0674, THE CONTRACTOR IS TO NOTIFY ALL UTILITY COMPANIES NOT MORE THAN 14 DAYS NOR LESS THAN 48 HOURS (EXCLUSIVE OF SATURDAYS, SUNDAYS, AND HOLIDAYS) IN ADVANCE OF THE START OF EXCAVATION OR DEMOLITION.

J.U.L.I.E TELEPHONE NUMBER
1-800-892-0123

9. THE FOLLOWING MIXTURE REQUIREMENTS ARE APPLICABLE FOR THIS PROJECT:

LOCATION(S):	HMA BINDER	HMA SURF CSE
MIXTURE USE(S):		
AC/PG:	PG 64-22	PG 64-22
DESIGN AIR VOIDS:	4.0% @ N DESIGN=50	4.0% @ N DESIGN=50
MIXTURE COMPOSITION: (GRADATION MIXTURE)	IL 19.0	IL 9.5
FRICTION AGGREGATE	N/A	MIX "C"
QUALITY	QA/QC	QA/QC
SUB-LOT SIZE	N/A	N/A

RATES OF APPLICATION TABLE

AGGREGATE (SURFACE, BASE, BASE, OR BACKFILL)	2.05 TON/CU YD
STONE RIPRAP	1.75 TON/CU YD
HOT-MIX ASPHALT:	
BITUMINOUS MATERIALS (TACK COAT)	0.025 POUND / SQ FT (SEE ARTICLE 406.05)
BITUMINOUS MATERIALS (PRIME COAT)	0.250 POUND / SQ FT (ON AGG BASE)
SURFACE / BINDER (112 lbs)	0.056 TON / SQ YD * IN
SEEDING AREAS:	
NITROGEN FERTILIZER NUTRIENT	90 LBS/ACRE
PHOSPHOROUS FERTILIZER NUTRIENT	90 LBS/ACRE
POTASSIUM FERTILIZER NUTRIENT	90 LBS/ACRE
AGRICULTURAL GROUND LIMESTONE	2 TON/ACRE
MULCH	2 TON/ACRE
TEMPORARY EROSION CONTROL SEEDING	100 LBS/ACRE

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KLINGNER
& ASSOCIATES, P.C.
Engineers • Architects • Surveyors
616 N. 24TH ST. QUINCY, ILLINOIS 62301 217.223.3676
STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = rjp	DESIGNED - RJP	REVISED -
	DRAWN - RJP	REVISED -
PLOT SCALE = 40.0000' / in.	CHECKED - EBB	REVISED -
PLOT DATE = 4/3/2025	DATE -	REVISED -

HANCOCK COUNTY
HIGHWAY DEPARTMENT

TR 91 (2350N) OVER GROVE CREEK
SUMMARY OF QUANTITIES /GENERAL NOTES

SCALE: NONE	SHEET 1	OF 1 SHEETS	STA.	TO STA.
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T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	24-14119-00-BR	HANCOCK	21	2
ILLINOIS FED. AID PROJECT			CONTRACT NO. 93840	

SEEDING SCHEDULE

ITEM	UNIT	TOTAL
SEEDING, CLASS 2	ACRE	0.25
NITROGEN FERTILIZER NUTRIENT	POUND	23
PHOSPHORUS FERTILIZER NUTRIENT	POUND	23
POTASSIUM FERTILIZER NUTRIENT	POUND	23
AGRICULTURAL GROUND LIMESTONE	TON	0.5
MULCH, METHOD 2	ACRE	0.25

EARTH EXCAVATION SCHEDULE

LOCATION STATION TO STATION	SIDE	EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED (25%)	EMBANKMENT	EARTHWORK BALANCE	
		CU YD				
		TR 91 (2350 N)				
3+85	7+00	LT & RT	150	110	110	0
TOTALS			150	110	110	0
USE			150	110	110	0

RIPRAP SCHEDULE

LOCATION STATION TO STATION		SIDE	STONE RIPRAP	FILTER
			CLASS A5	FABRIC
			TON	SQ YD
TR 91 (2350 N)				
5+25.0	5+49.0	LT & RT	191.4	178.9
5+49.0	5+61.0	LT & RT	87.0	0.0
5+61.0	5+85.0	LT & RT	191.4	178.9
TOTALS			469.7	357.8
USE			470	358

EROSION CONTROL SCHEDULE

ITEM	UNIT	TOTAL
EARTH EXCAVATION FOR EROSION CONTROL	CU YD	25
TEMPORARY EROSION CONTROL SEEDING	POUND	50
PERIMETER EROSION BARRIER	FOOT	525

PAVEMENT SCHEDULE

LOCATION STATION TO STATION		SIDE	SURFACE WIDTH	GEOTECH FABRIC	AGGREGATE BASE COURSE TYPE B	BITUMINOUS MATERIALS (PRIME COAT)	BITUMINOUS MATERIALS (TACK COAT)	HMA BINDER COURSE IL-19.0, N50	HMA SURFACE COURSE MIX "C", N50
				SQ YD	TON	POUND		TON	
TR 91 (2350 N)									
3+85.0	5+24.0	LT & RT	16.0	289.6	187.3	582.1	56.5	42.8	20.9
5+86.0	6+65.0	LT & RT	16.0	164.6	106.5	330.8	32.1	24.3	11.9
TOTALS				454.2	293.8	912.9	88.6	67.1	32.8
USE				455	294	913	89	68	33

PAVEMENT REMOVAL

STATION TO STATION		SIDE	SQ YD
TR 91 (2350 N)			
3+85.0	5+31.0	LT & RT	255.4
5+79.0	6+65.0	LT & RT	148.4
TOTAL			403.8
USE			404

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LEGEND

- E1

EXISTING O&C PAVEMENT
- 1

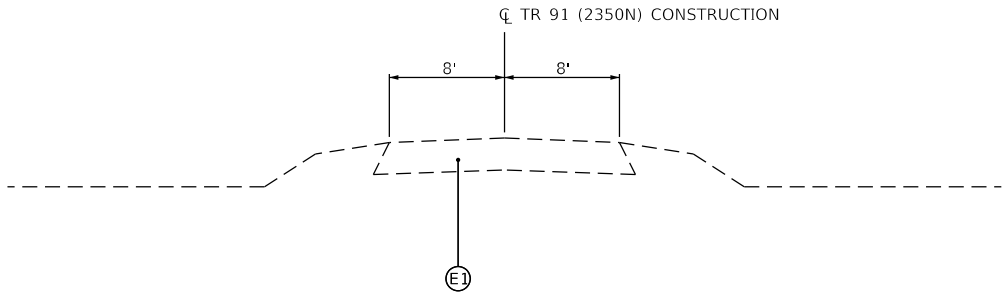
PROPOSED HMA SURFACE COURSE, IL-9.5, MIX "C", N50, 1 1/2"
- 2

PROPOSED HMA BINDER COURSE, IL-19.0, N50, 3"
- 3

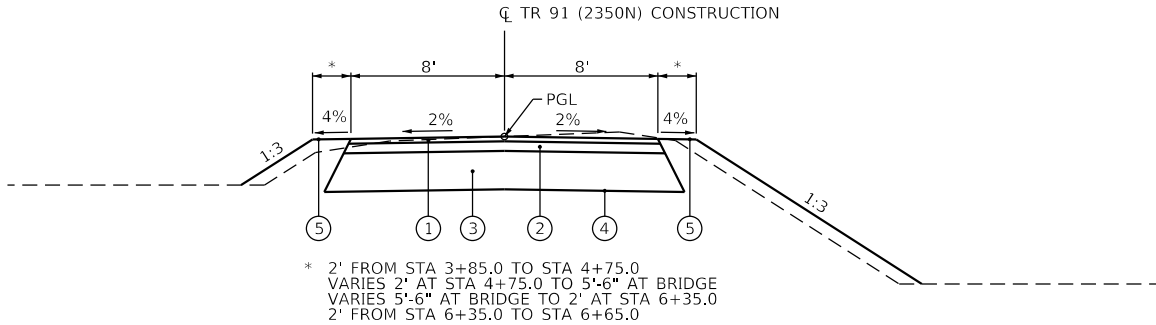
PROPOSED AGGREGATE BASE COURSE, TYPE B, 12"
- 4

PROPOSED GEOTECHNICAL FABRIC
- 5

PROPOSED EARTH SHOULDER



EXISTING TR 91 (2350N)
TYPICAL SECTION



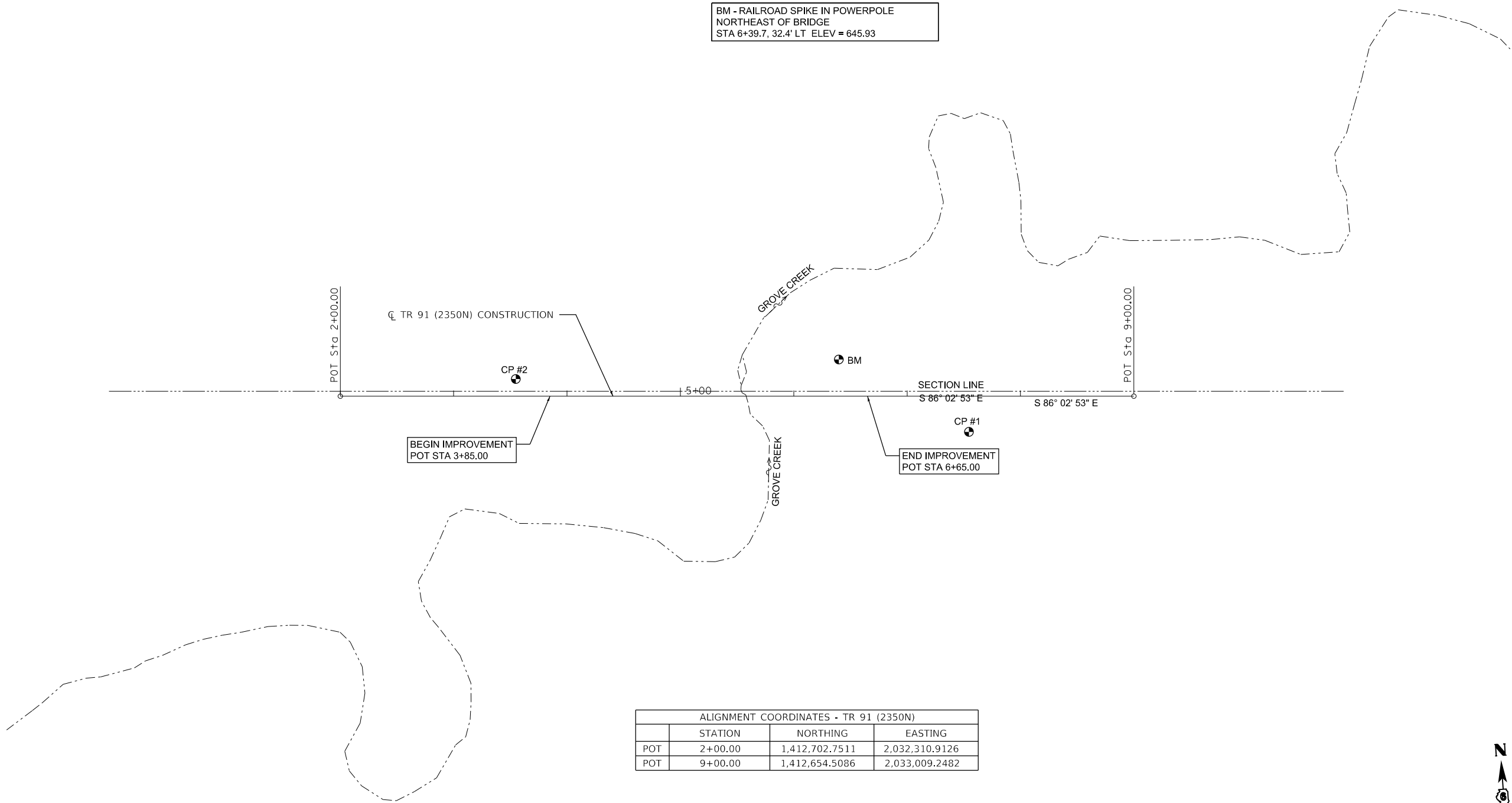
PROPOSED TR 91 (2350N)
TYPICAL SECTION

STA 3+85.0 TO STA 6+65.0 (BRIDGE: STA 5+24.0 TO 5+86.0)

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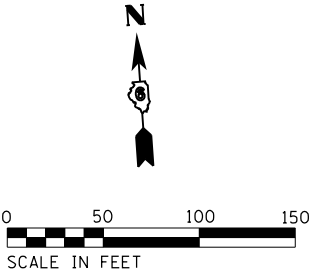
KLINGNER & ASSOCIATES, P.C. Engineers • Architects • Surveyors 616 N. 24TH ST. QUINCY, ILLINOIS 62301 217.223.3670 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738	USER NAME : rjp	DESIGNED - RJP	REVISED -	HANCOCK COUNTY HIGHWAY DEPARTMENT	TR 91 (2350N) OVER GROVE CREEK TYPICAL SECTIONS			T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE : 40.0000' / in.	DRAWN - RJP	REVISED -					91	24-14119-00-BR	HANCOCK	21	4
	PLOT DATE : 4/3/2025	CHECKED - EBB	REVISED -		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.			CONTRACT NO. 93840				
		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

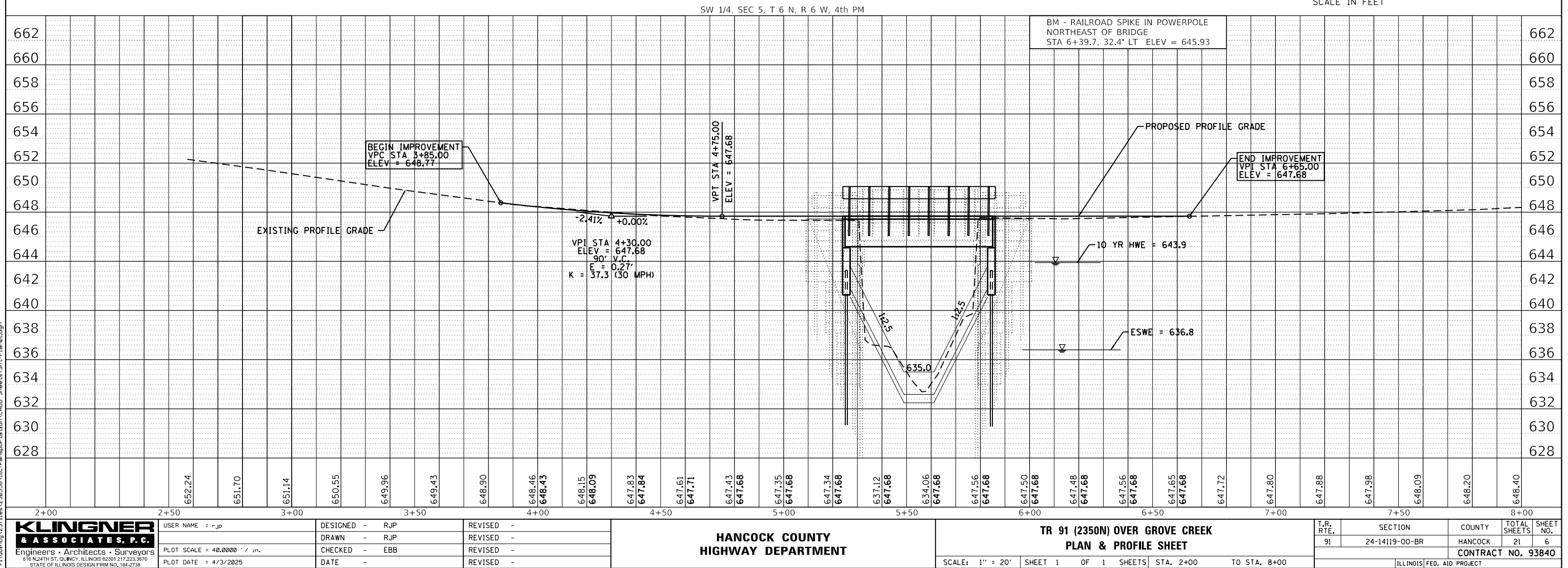
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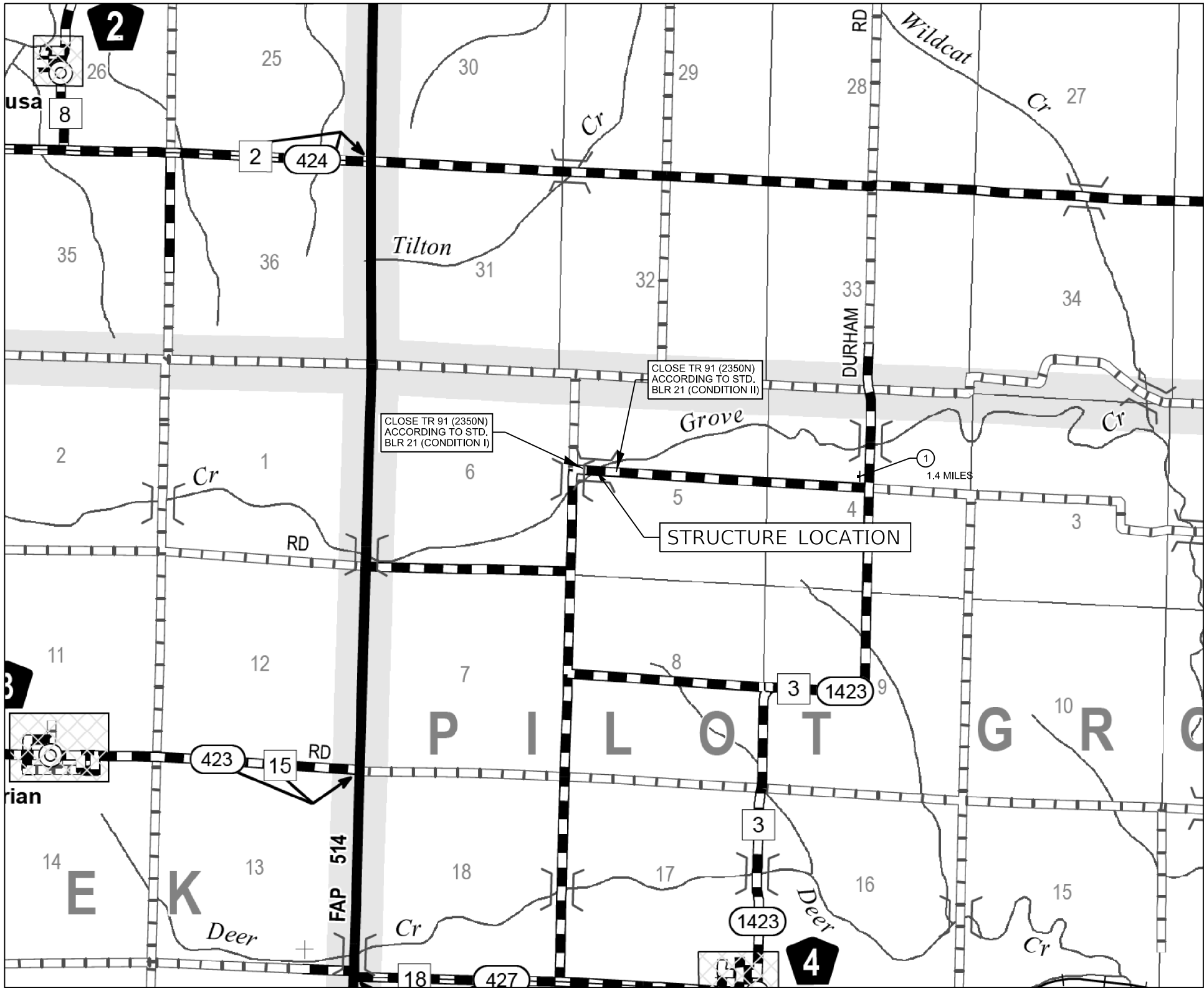


ALIGNMENT COORDINATES - TR 91 (2350N)			
	STATION	NORTHING	EASTING
POT	2+00.00	1,412,702.7511	2,032,310.9126
POT	9+00.00	1,412,654.5086	2,033,009.2482

CONTROL POINT COORDINATES - TR 91 (2350N)		
CONTROL POINT #	NORTHING	EASTING
1	1,412,633.1320	2,032,861.9570
2	1,412,707.1890	2,032,466.3970







TRAFFIC CONTROL PLAN

GENERAL NOTES

- 1) ROAD CLOSURE IN ACCORDANCE WITH TRAFFIC CONTROL AND PROTECTION STANDARD BLR-21 ALONG WITH THE DETAILS AND SPECIAL PROVISIONS.
- 2) ALL SIGNS SHALL BE FURNISHED, ERECTED, AND MAINTAINED BY THE CONTRACTOR.
- 3) THE LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
- 4) ALL SIGNS SHALL BE REMOVED WHEN NOT REQUIRED FOR FUTURE USE.
- 5) THIS TRAFFIC CONTROL AND PROTECTION SHALL BE PAID FOR ACCORDING TO THE CONTRACT UNIT COST PER LUMP SUM FOR TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21.
- 6) THE EXACT LOCATIONS OF ALL TRAFFIC CONTROL ITEMS SHALL BE APPROVED BY THE ENGINEER.
- 7) PRIOR TO THE CLOSURE OF T.R. 91 (FAS 2350N), THE CONTRACTOR SHALL NOTIFY LOCAL EMERGENCY SERVICES, HANCOCK COUNTY ENGINEER, TOWNSHIP ROAD DISTRICT, US POSTAL SERVICE, AND LOCAL SCHOOL DISTRICTS.

HANCOCK COUNTY ENGINEER:

MR. ELGIN BERRY, P.E.
P.O. BOX 379
101 SOUTH FIRST STREET
CARTHAGE, IL 62621

PHONE: 217-357-3155

PILOT GROVE TOWNSHIP ROAD DISTRICT:

MR. JERRY GREEN
2130 NORTH COUNTY ROAD 2300E
BURNSIDE, IL 62330

PHONE: 217-357-4640

ILLINI WEST HIGH SCHOOL DISTRICT 307:

SUPERINTENDENT
JAY HARNACK
600 MILLER STREET
CARTHAGE, IL 62321

PHONE: 217-357-2136

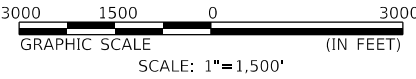
CARTHAGE ELEMENTARY SCHOOL DISTRICT 317:

SUPERINTENDENT
DUSTIN DAY
210 SOUTH ADAMS STREET
CARTHAGE, IL 62321

PHONE: 217-357-3922

ROAD CLOSED
XX MILES AHEAD
LOCAL TRAFFIC ONLY

1 R11-3a (6030) (O)



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KLINGNER & ASSOCIATES, P.C. Engineers • Architects • Surveyors 616 N. 24TH ST. QUINCY, ILLINOIS 62301 217.223-3670 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738	USER NAME = rjp	DESIGNED - RJP	REVISED -	HANCOCK COUNTY HIGHWAY DEPARTMENT	TR 91 (2350N) OVER GROVE CREEK TRAFFIC CONTROL PLAN					T.R.	SECTION	COUNTY	TOTAL	SHEET
										SHEETS	NO.			
	PLOT SCALE = 10,000' / in.	DRAWN - RJP	REVISED -		91	24-14119-00-BR	HANCOCK	21	7					
	PLOT DATE = 4/3/2025	CHECKED - EBB	REVISED -		CONTRACT NO. 93840									
		DATE -	REVISED -		SCALE: 1"=1500'	SHEET 1	OF 1	SHEETS	STA.	TO STA.	ILLINOIS	FED. AID	PROJECT	

Bench Mark: Railroad spike in power pole northeast of bridge, Sta. 6+39.7, 32.4' Lt., NAVD 88 Elev. 645.93

Existing Structure: Structure Number 034-4816 was originally built in 1966 under Section Pilot Grove 104-TR in Hancock County. The structure consists of 7-17" deep precast prestressed concrete deck beams on concrete pile caps and closed timber abutments and timber piles. The back-to-back abutment length is 49'-4" and the out to out bridge width is 26'-0", 24'-0" between curbs.

The existing structure shall be removed and replaced. The roadway will be closed and traffic detoured during construction.

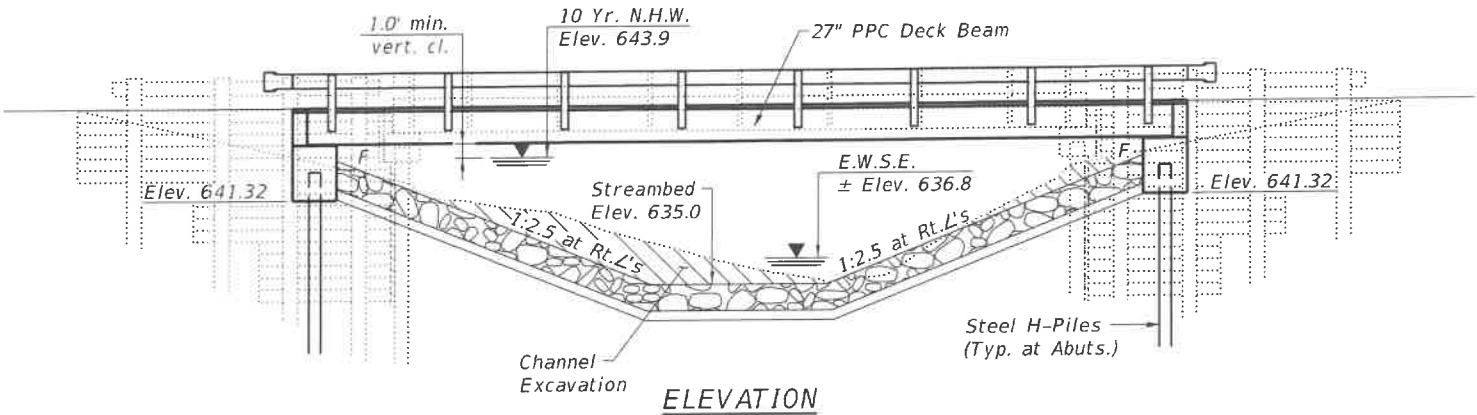
No Salvage.

INDEX OF SHEETS

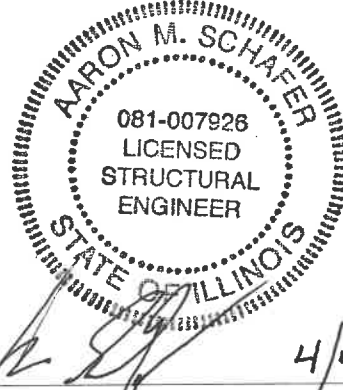
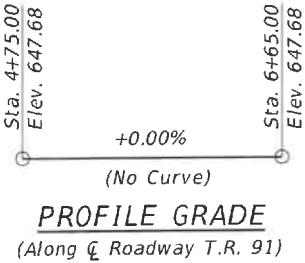
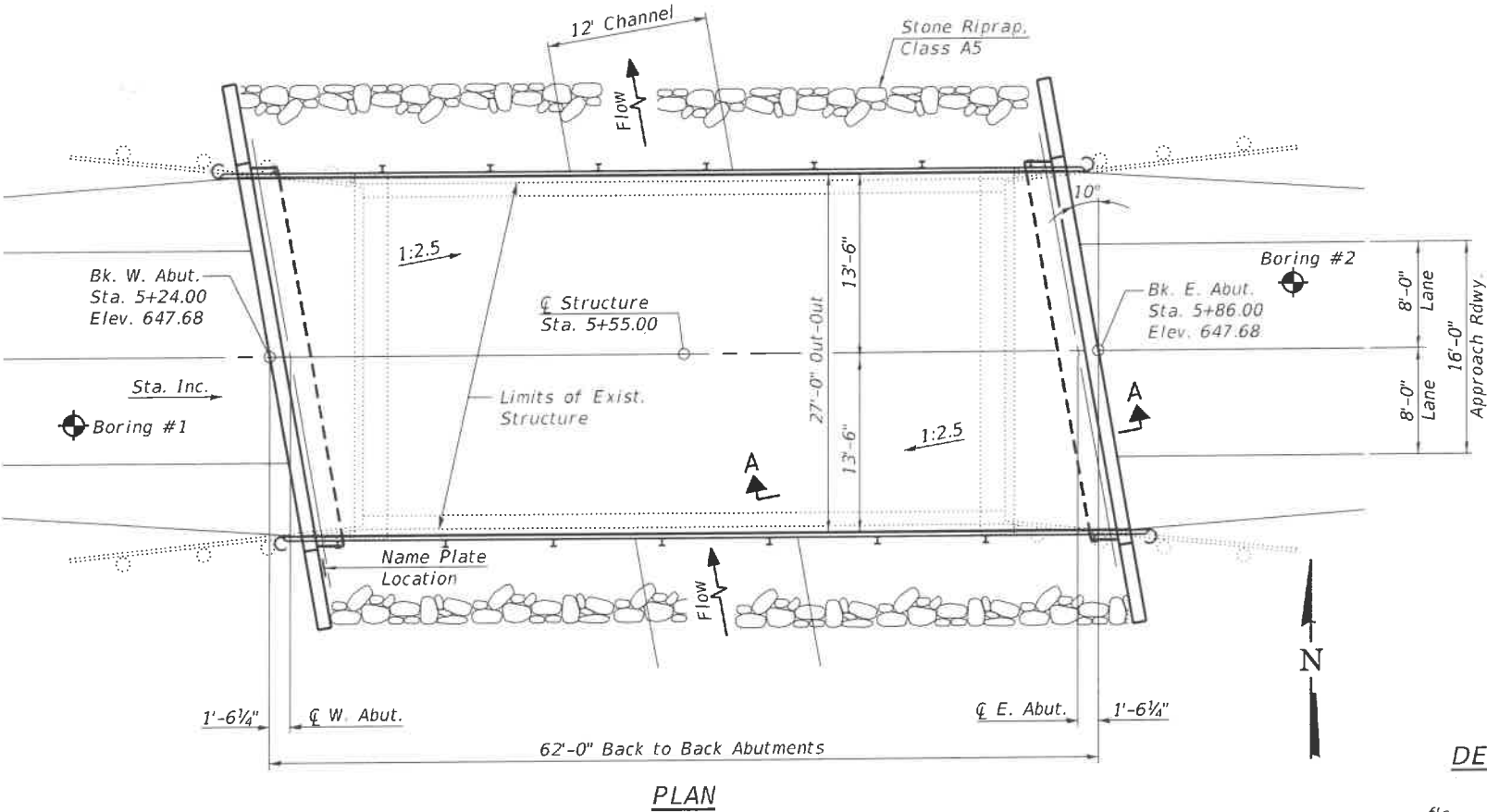
- 1 General Plan & Elevation
- 2 General Notes & Details
- 3 27" x 36" PPC Deck Beam
- 4 27" x 36" PPC Deck Beam Details
- 5 Steel Railing, Type S-1
- 6 West Abutment
- 7 East Abutment
- 8 HP Pile Details
- 9 Boring Logs

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.		136	136
Hot-Mix Asphalt Surface Course, IL-9.5, Mix "C", N50	Ton	23		23
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu. Yd.		120	120
Concrete Structures	Cu. Yd.		33.0	33.0
Precast Prestressed Concrete Deck Beams (27" Depth)	Sq. Ft.	1,619		1,619
Reinforcement Bars, Epoxy Coated	Pound		4,040	4,040
Steel Railing, Type S1	Foot	124		124
Furnishing Steel Piles HP10x42	Foot		176	176
Driving Piles	Foot		176	176
Test Pile Steel HP10x42	Each		2	2
Pile Shoes	Each		10	10
Name Plates	Each	1		1
Waterproofing Membrane System	Sq. Yd.	186		186
Portland Cement Mortar Fairing Course	Foot	480		480
Granular Backfill for Structures	Cu. Yd.		56	56
Terminal Marker - Direct Applied	Each	4		4



Note:
See Sheet 2 of 9 for Section A-A.



Aaron M. Schafer
Licensed Structural Engineer
State of Illinois No. 081-007926
License Expires 11/30/2026

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

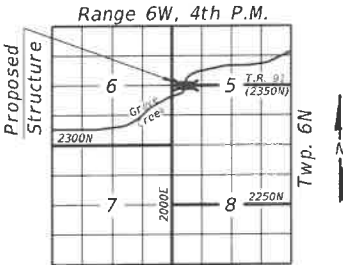
GENERAL PLAN & ELEVATION
T.R. 91 (2350N) OVER GROVE CREEK
SECTION 24-14119-00-BR
HANCOCK COUNTY
STATION 5+55.00
STRUCTURE NO. 034-4817

DESIGN STRESSES

FIELD UNITS

$f'_c = 3,500$ psi
 $f_y = 60,000$ psi (Reinforcement)
PRECAST PRESTRESSED UNITS

$f'_c = 6,000$ psi
 $f'_{ci} = 5,000$ psi
 $f_{pu} = 270,000$ psi ($\frac{1}{2}$ " dia. low lax. strands)
 $f_{pbt} = 201,690$ psi ($\frac{1}{2}$ " dia. low lax. strands)



LOCATION SKETCH

LOADING HL-93
Allow 50#/sq. ft. for future wearing surface.

DESIGN SPECIFICATIONS

2020 AASHTO LRFD Bridge Design Specifications, 9th Edition

SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.08g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.12g
Soil Site Class = C

KLINGNER & ASSOCIATES, P.C.
Engineers - Architects - Surveyors
816 N. 24TH ST. QUINCY, ILLINOIS 62301-2112-223-3610
STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = rjp	DESIGNED - RJP	REVISED -
PLOT SCALE = 1:333333' / 1"	CHECKED - AMS	REVISED -
PLOT DATE = 4/3/2025	DRAWN - RJP	REVISED -
	CHECKED - AMS	REVISED -

HANCOCK COUNTY
HIGHWAY DEPARTMENT

GENERAL PLAN & ELEVATION
STRUCTURE NO. 034-4817
SHEET NO. 1 OF 9 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	24-14119-00-BR	HANCOCK	21	8
CONTRACT NO. 93840				
ILLINOIS FED. AID PROJECT				

Reinforcement bars designated (E) shall be epoxy coated.
Layout of the slope protection system may be varied to suit ground conditions in the field as directed by the Engineer.
See Roadway Plans for full riprap layout and quantity.

GROVE CREEK
BUILT 202_ BY
PILOT GROVE ROAD DISTRICT
HANCOCK COUNTY
SEC. 24-14119-00-BR
STATION 5+55.00
STR. NO. 034-4817 LOADING HL-93

See Std. 515001

<i>Event / Limit</i>	<i>Design Scour Elevations (ft.)</i>		
<i>State</i>	<i>W. Abut.</i>	<i>E. Abut.</i>	<i>Item 113</i>
<i>Q100</i>	<i>641.32</i>	<i>641.32</i>	<i>8</i>
<i>Q200</i>	<i>641.32</i>	<i>641.32</i>	
<i>Design</i>	<i>641.32</i>	<i>641.32</i>	
<i>Check</i>	<i>641.32</i>	<i>641.32</i>	

Drainage Area = 8.0 Sq. Mi.					Exist. Overtopping Elev. 647.3 @ Sta. 5+20				
					Prop. Overtopping Elev. 647.7 @ Sta. 5+55				
Flood Event	Freq. Yr.	Discharge C.F.S.	Opening Sq. Ft.		Natural H.W.E. Ft.	Head - Ft.		Headwater El. Ft.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Design	10	928	243	306	643.9	0.1	0.1	644.0	644.0
Base	100	1,900	319	365	645.6	0.8	0.6	646.4	646.2
Scour Design	200	2,220	320	365	645.9	1.1	0.8	647.0	646.7
Overtop Exist.	500	2,670	320	365	646.4	1.3	0.9	647.7	647.3
Overtop Prop.	500	2,670	320	365	646.4	1.3	0.9	647.7	647.3
Max. Calc.	500	2,670	320	365	646.4	1.3	0.9	647.7	647.3

[illegible]

The diagram illustrates the cross-section of a bridge deck with the following details:

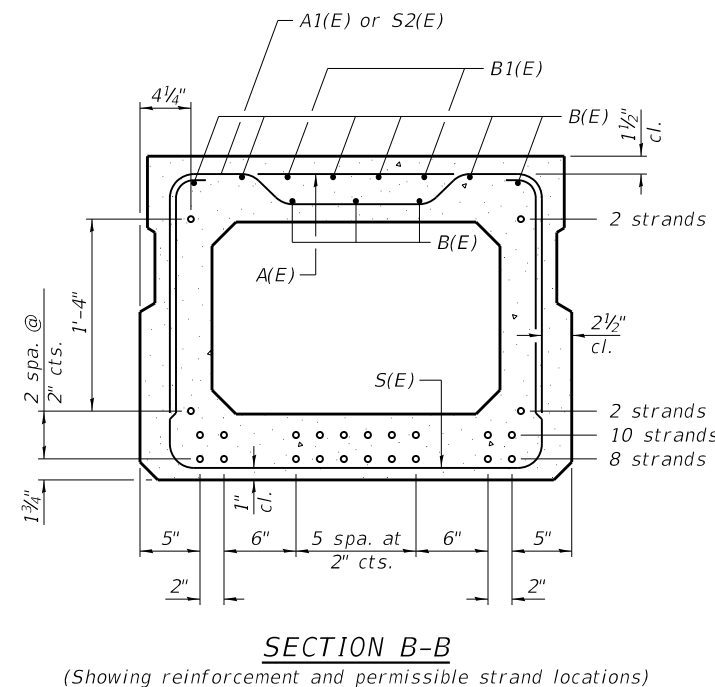
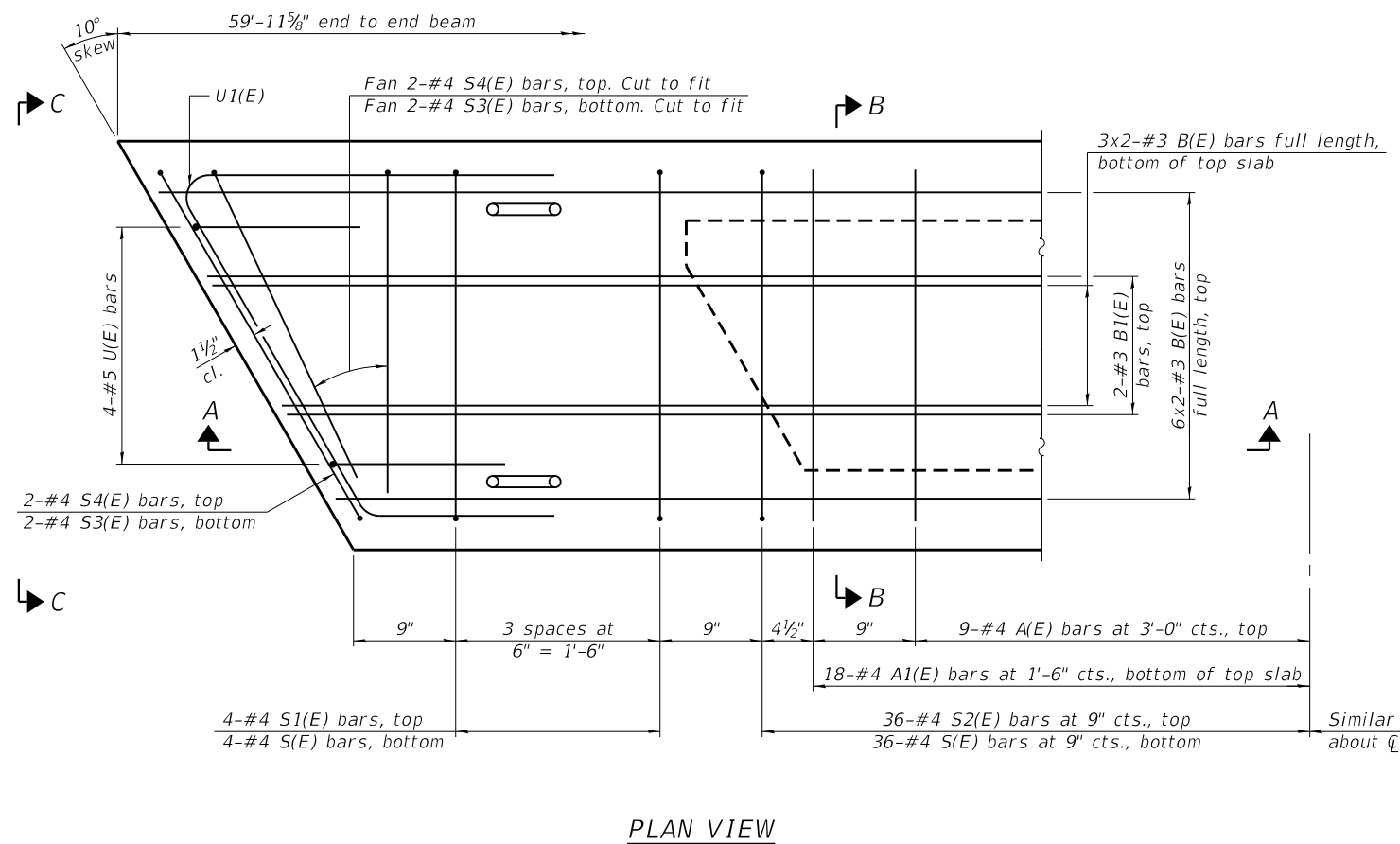
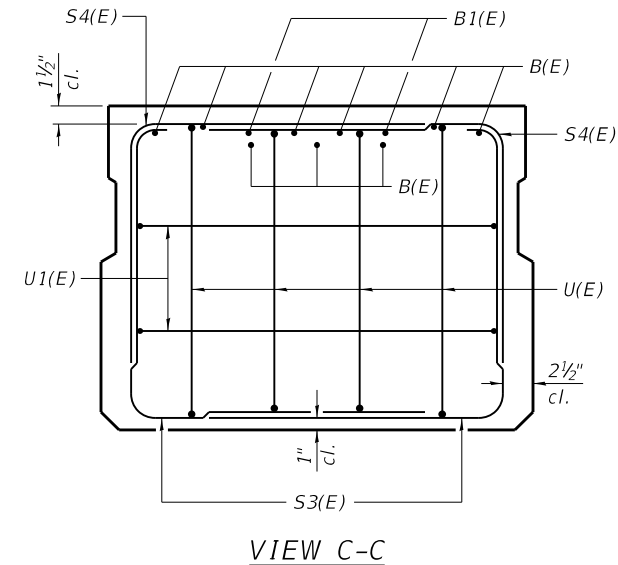
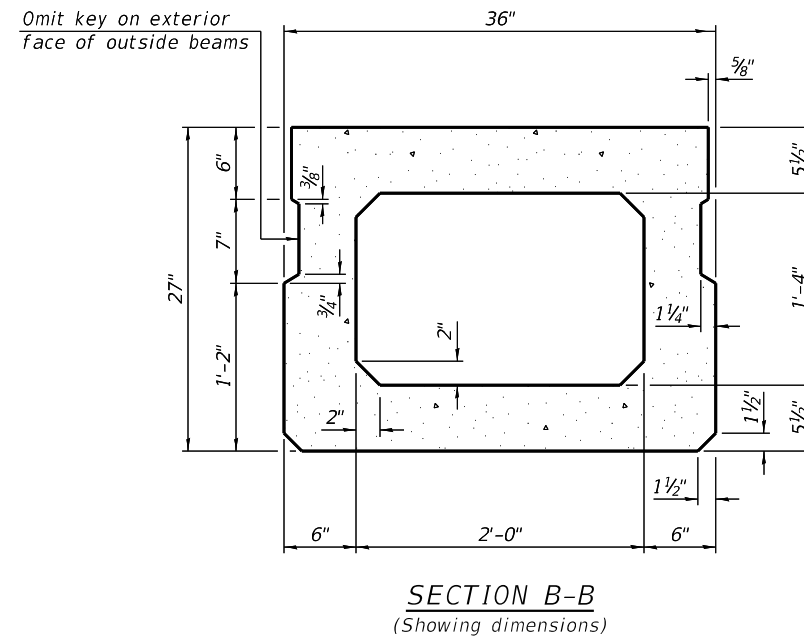
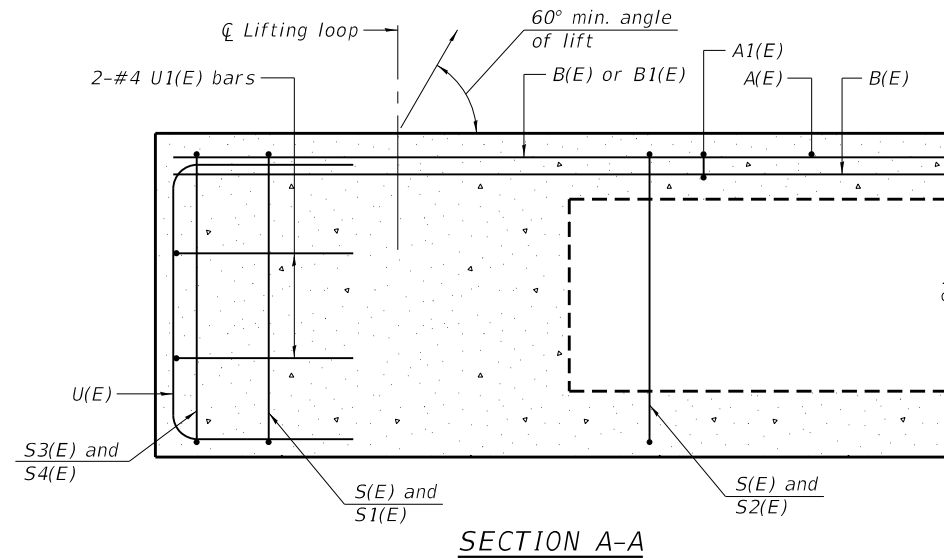
- Overall Dimensions:** Total width is 27'-0" out to out deck. Individual beam spacing is 3'-0".
- Deck Components:**
 - H.M.A. Surface Course with Waterproofing Membrane System:** Slope of 2 7/8" in 12'-0" on both sides.
 - Grout key with Non-Shrink Grout:** See Std. Specs. Slope of 2.0% on both sides.
 - 27" PPC Deck Beam:** The main structural component.
 - Bearing Pads:** Interior and Exterior Bearing Pads are shown at the base of the beams.
- Centerline and P.G.:** The centerline is marked as "C.Rdwy. T.R. 91 (2350N)". The P.G. (Proprietary Grout) is located at the center of the deck.
- Notes:**
 - "Type S-1 Rail See Sheet 5 of 9 for details" is noted on the right side.
 - "9 - PPC Deck Beams @ 3'-0" = 27'-0" is noted at the bottom.

(Looking East)

Diagram illustrating the layout of a 56-foot rail post section. The total length is 56 feet, divided into 7 Rail Post Spaces at 8 feet each (7 x 8' = 56'). The layout includes:

- Curled End Section (Each End): 2'-8½"
- Terminal Marker - Direct Applied (Each End - 4 Req'd): 2'-8½"
- Ground Line
- Post Spacing: 7 Rail Post Spaces at 8'-1" = 56'-7"
- Post Offset: ±1'-8⅜"

(Looking North)



BAR LIST
ONE BEAM ONLY
(For information only)

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

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

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

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

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

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STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

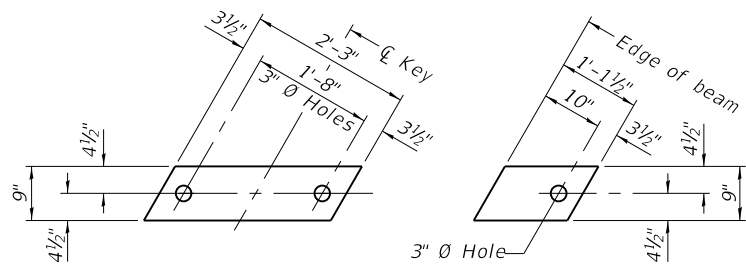
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PLOT SCALE = 1.333333' / 1"	CHECKED - AMS	REVISED -
PLOT DATE = 4/3/2025	DRAWN - RJP	REVISED -
	CHECKED - AMS	REVISED -

HANCOCK COUNTY
HIGHWAY DEPARTMENT

27" x 36" PPC DECK BEAM
STRUCTURE NO. 034-4817

SHEET NO. 3 OF 9 SHEETS

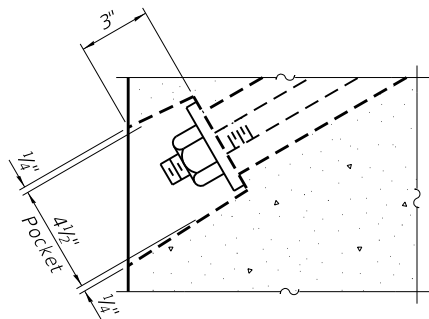
T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	24-14119-00-BR	HANCOCK	21	10
CONTRACT NO. 93840				
ILLINOIS FED. AID PROJECT				



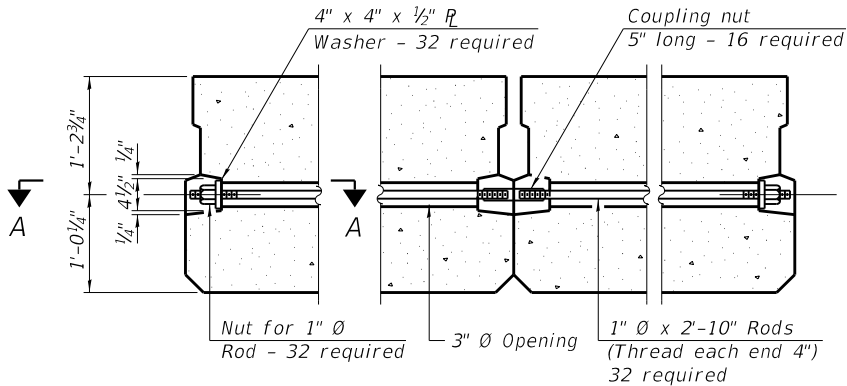
FABRIC BEARING PAD (Interior) FABRIC BEARING PAD (Exterior)

FIXED

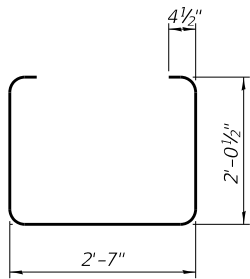
Note:
All bearing pads shall be 1" thick.



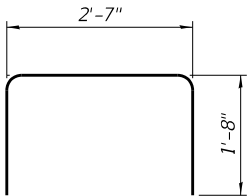
SECTION A-A



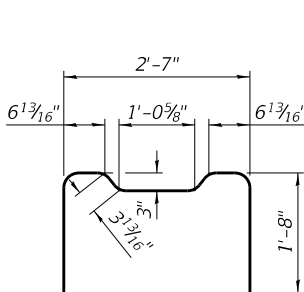
TYPICAL TRANSVERSE TIE ASSEMBLY



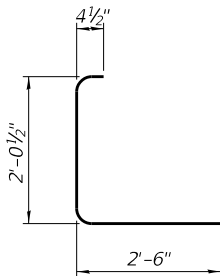
BAR S(E)



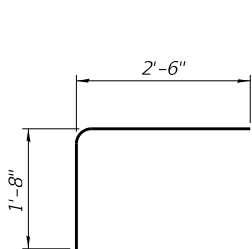
BAR S1(E)



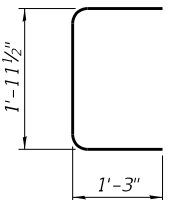
BAR S2(E)



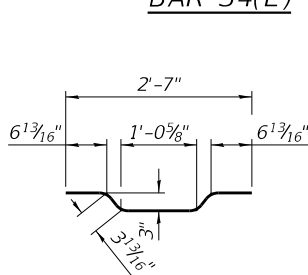
BAR S3(E)



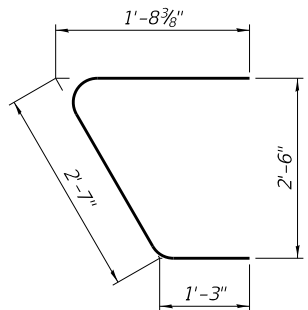
BAR S4(E)



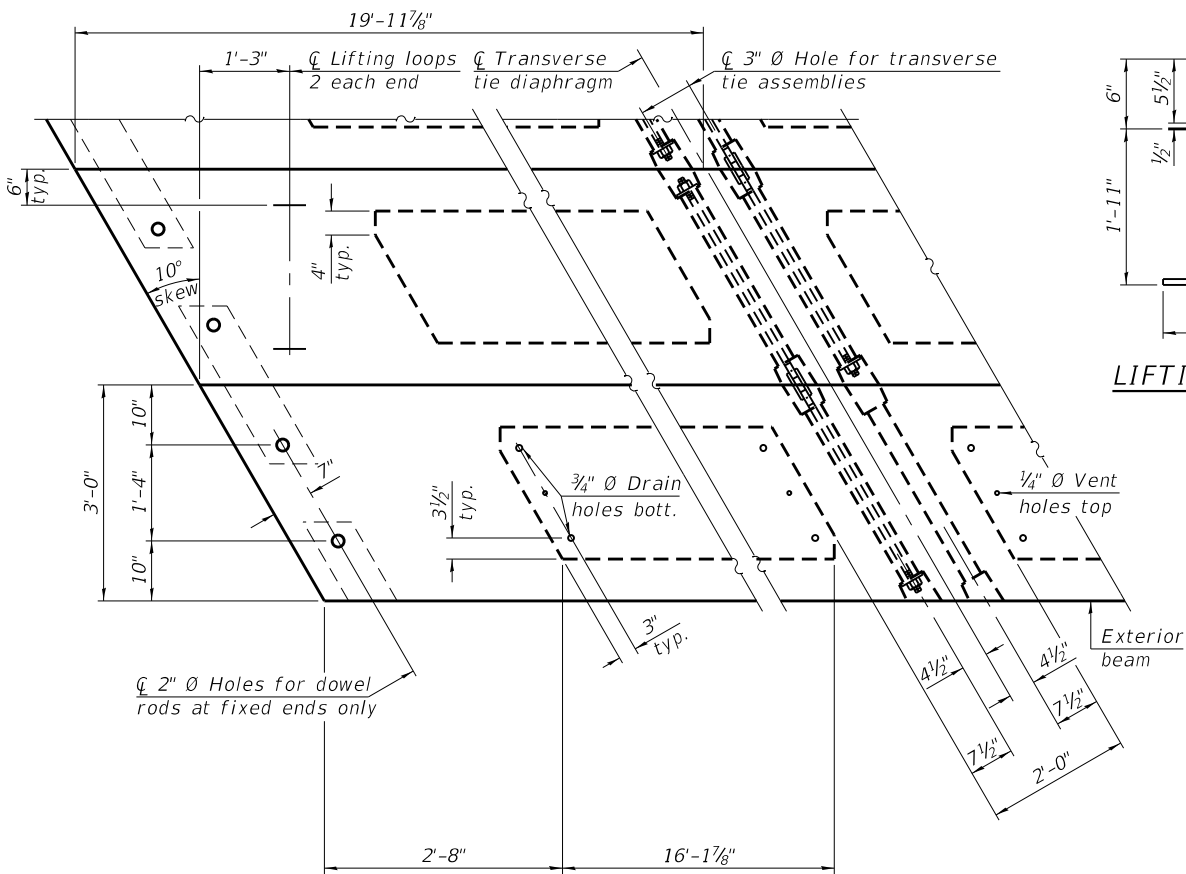
BAR U(E)



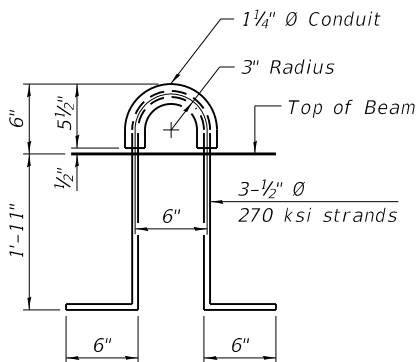
BAR A1(E)



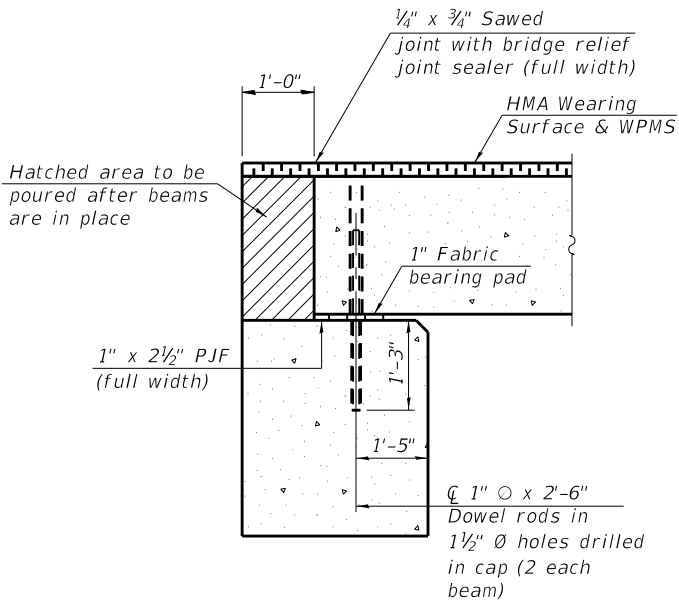
BAR U1(E)



PLAN VIEW



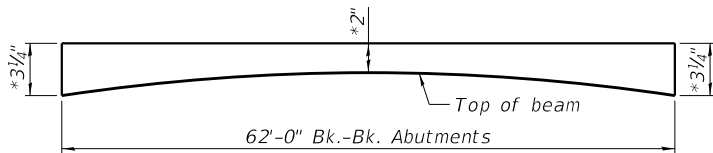
LIFTING LOOP DETAIL



SECTION THRU ABUTMENTS

(Dimensions are at Rt. L's)

Note:
Cost of Premoulded Joint Filler included in the cost of Precast Prestressed Concrete Deck Beams (27" Depth).



ANTICIPATED HMA WEARING SURFACE PROFILE

*Anticipated wearing surface thickness includes $\pm 1/2$ " for Waterproofing Membrane System. Minimum thickness of HMA Surface Course shall be 1 1/2".

BILL OF MATERIAL

Precast Prestressed Conc. Deck Bms. (27" depth)	Sq. Ft.	1,619
---	---------	-------

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

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

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STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = rjp
PLOT SCALE = 1:333333 ' / in.
PLOT DATE = 4/3/2025

DESIGNED - RJP
CHECKED - AMS
DRAWN - RJP
CHECKED - AMS

REVISED -
REVISED -
REVISED -
REVISED -

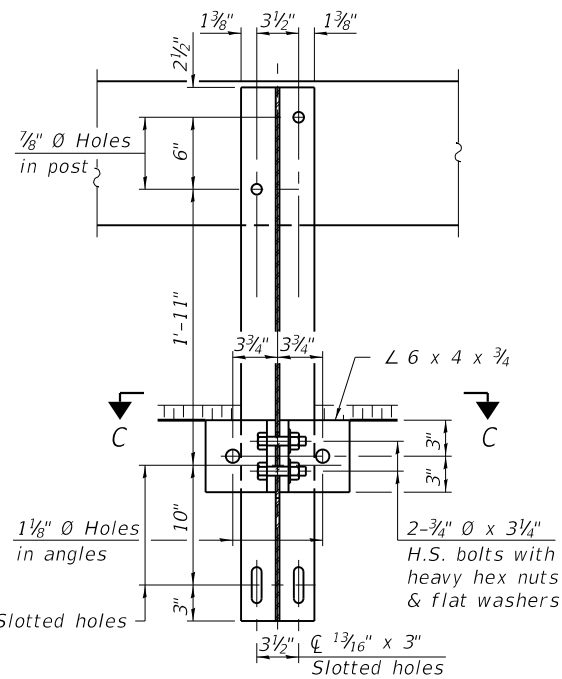
HANCOCK COUNTY
HIGHWAY DEPARTMENT

27" x 36" PPC DECK BEAM DETAILS
STRUCTURE NO. 034-4817

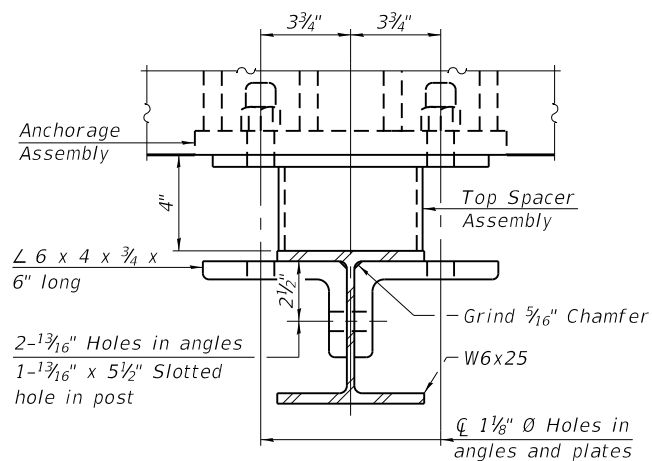
SHEET NO. 4 OF 9 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	24-14119-00-BR	HANCOCK	21	11
CONTRACT NO. 93840				

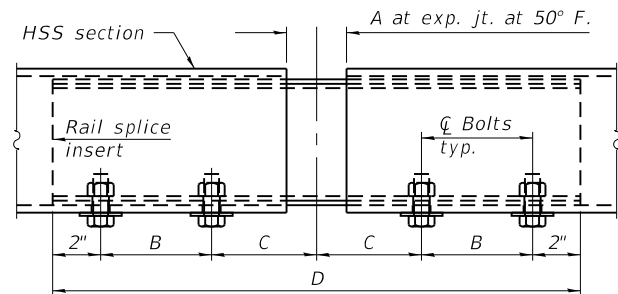
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SECTION B-B



SECTION C-C



RAIL SPLICE ELEVATION

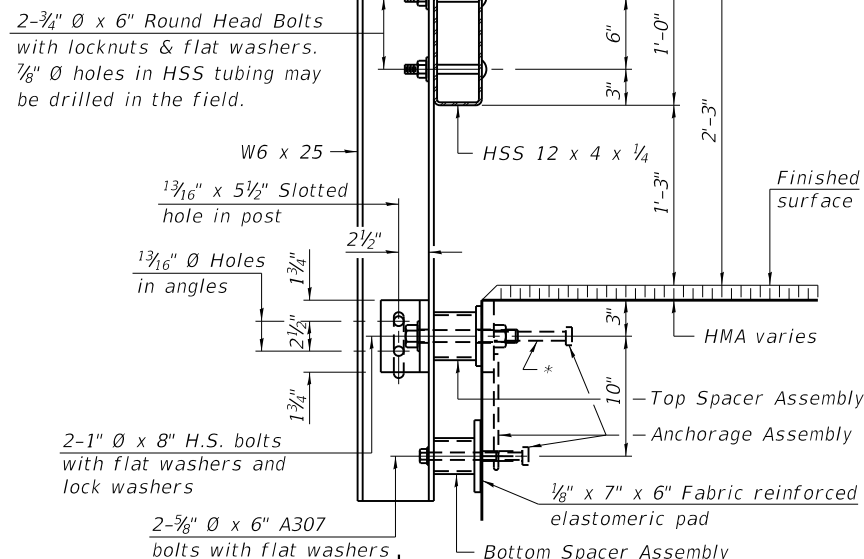
RAILING CRITERIA

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

Location	T	A	B	C	D	E
All locs. not over exp. jts.	0	1/4"	4"	4"	1'-8"	-
Over Strip Seal Jt.	≤4"	2 1/2"	4 3/8"	4 3/8"	1'-10"	3 1/16"
Over Finger or Modular Jt.	≤9 1/2"	5 1/2"	7 3/8"	7 1/4"	2'-9 1/4"	5 13/16"
Over Finger or Modular Jt.	≤15"	8 1/4"	10 1/8"	10"	3'-8 1/4"	8 9/16"

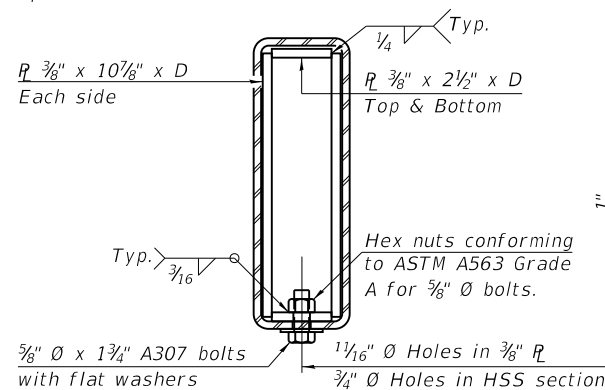
T = ; total movement along centerline of roadway at expansion joint.

SPLICE DIMENSIONS

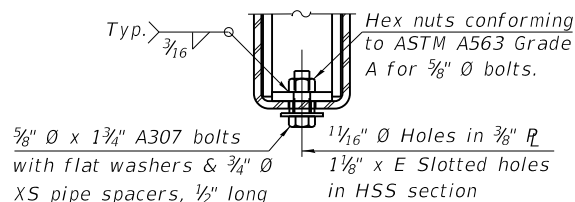


SECTION AT RAILING POST

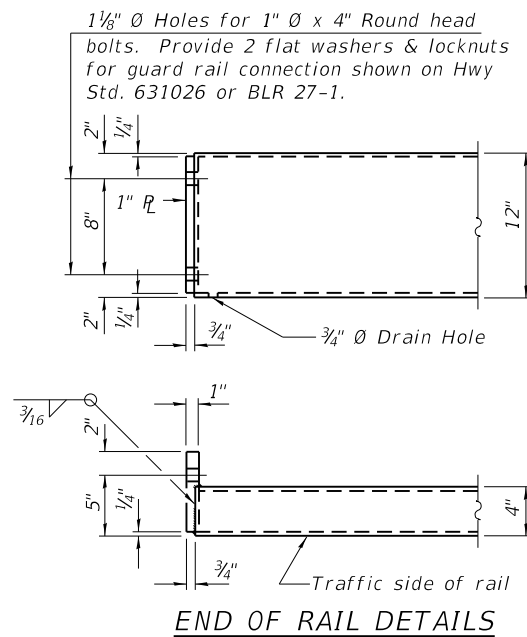
* The outermost longitudinal reinforcement bar shall be placed directly above the studs of the rail post anchorage assembly. The anchorage studs may be bent down 1/2" to accommodate the top reinforcement bar placement.



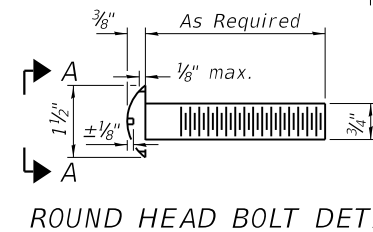
SECTION AT RAIL SPLICE



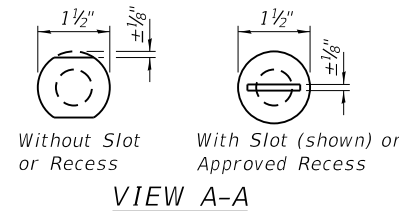
RAIL SPLICE CONNECTION AT EXPANSION JT.



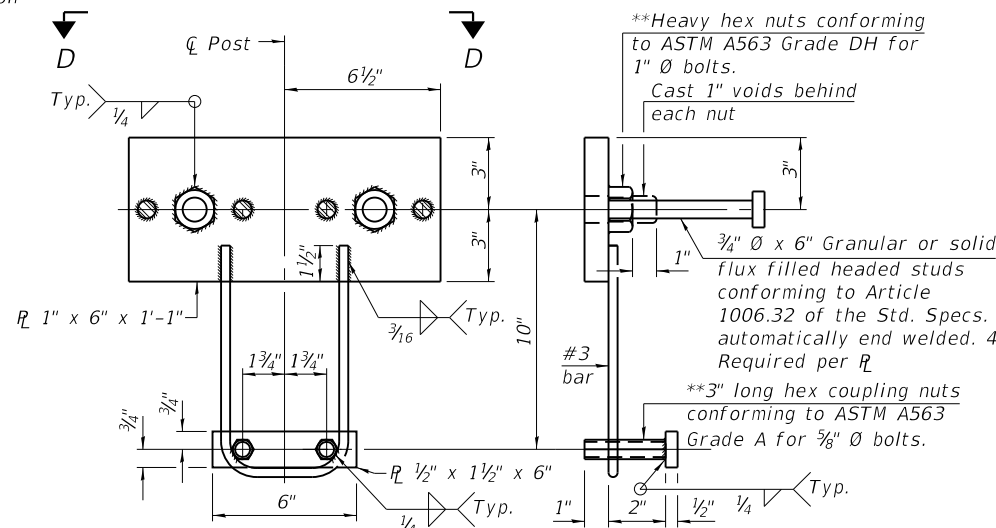
END OF RAIL DETAILS



ROUND HEAD BOLT DETAIL



VIEW A-A

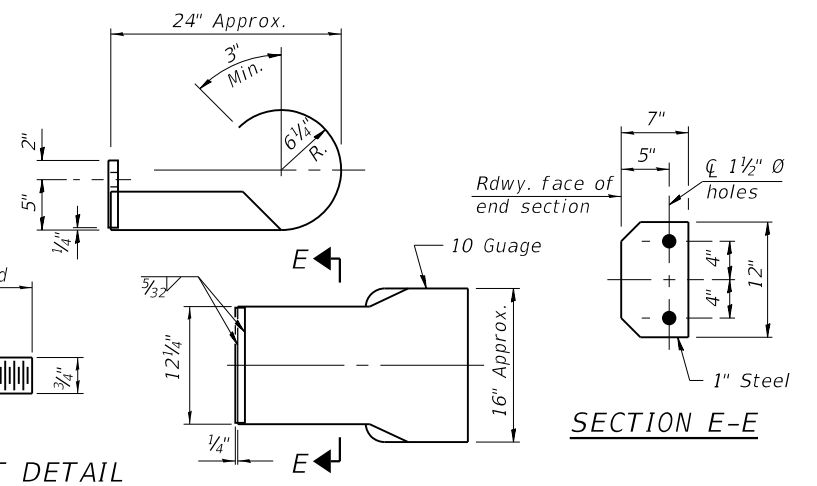


ANCHORAGE ASSEMBLY

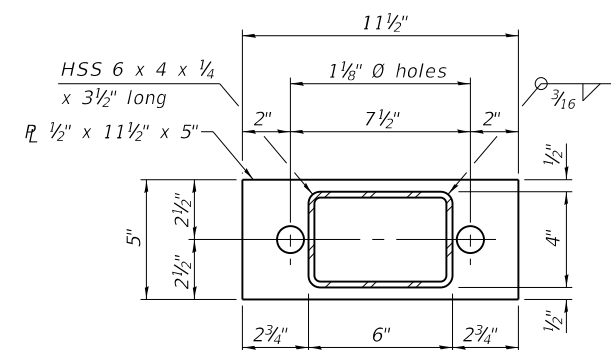
** Threaded areas shall be plugged or blocked off during casting of concrete.

BILL OF MATERIAL

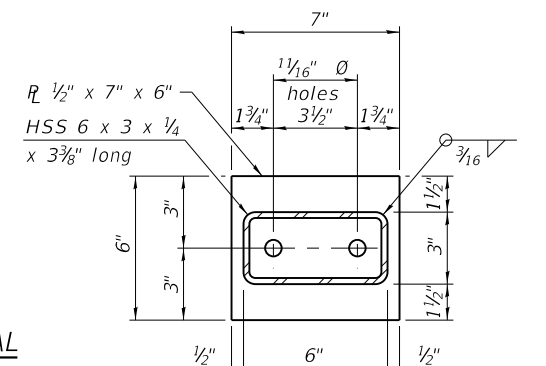
Item	Unit	Quantity
Steel Railing, Type S-1	Foot	124



CURLED END SECTION DETAILS



TOP SPACER ASSEMBLY



BOTTOM SPACER ASSEMBLY

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USER NAME = rjp
PLOT SCALE = 1:333333 ' / in.
PLOT DATE = 4/3/2025

DESIGNED - RJP
CHECKED - AMS
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CHECKED - AMS

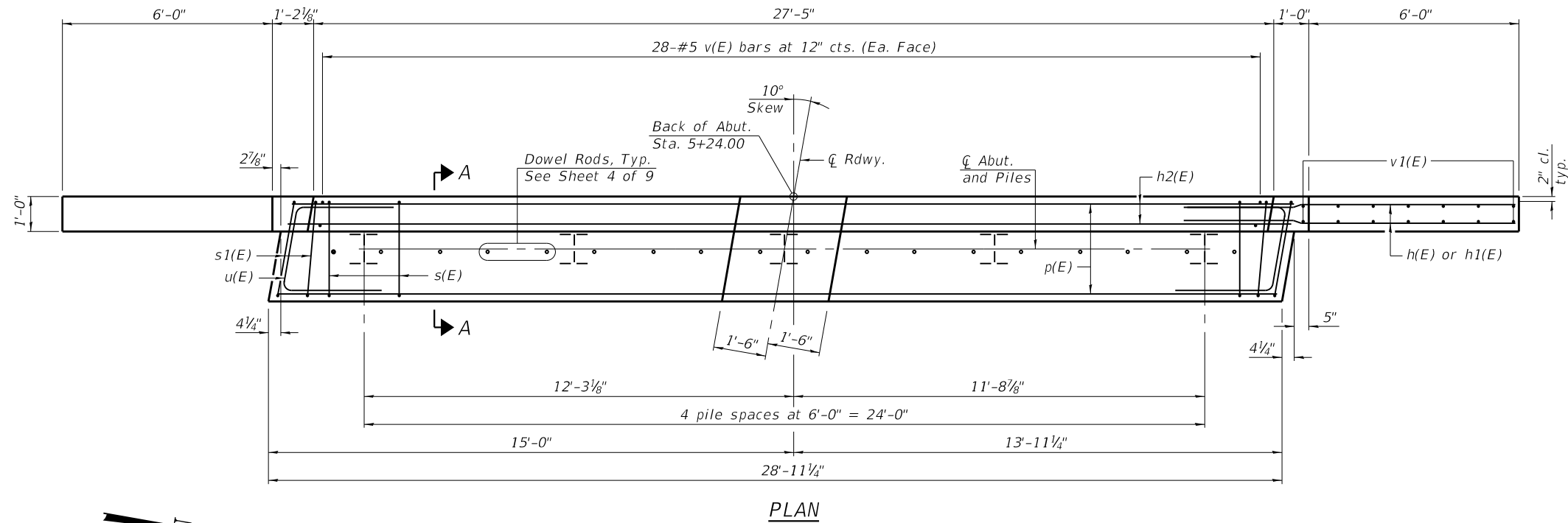
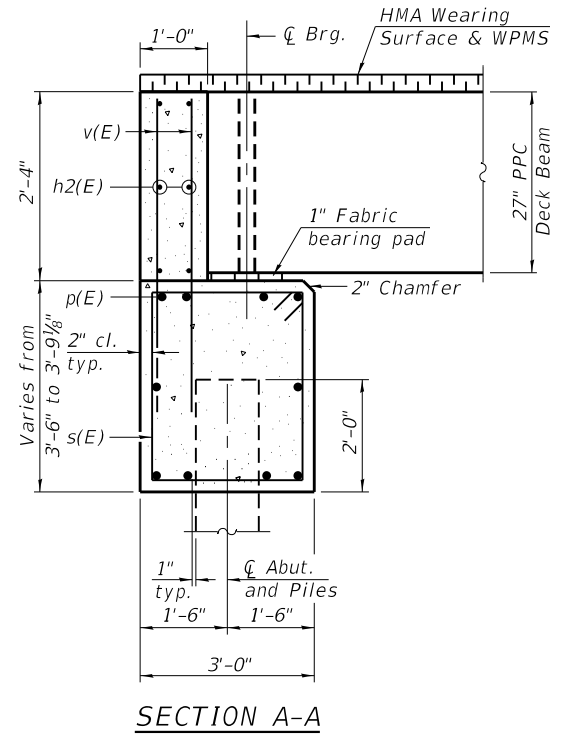
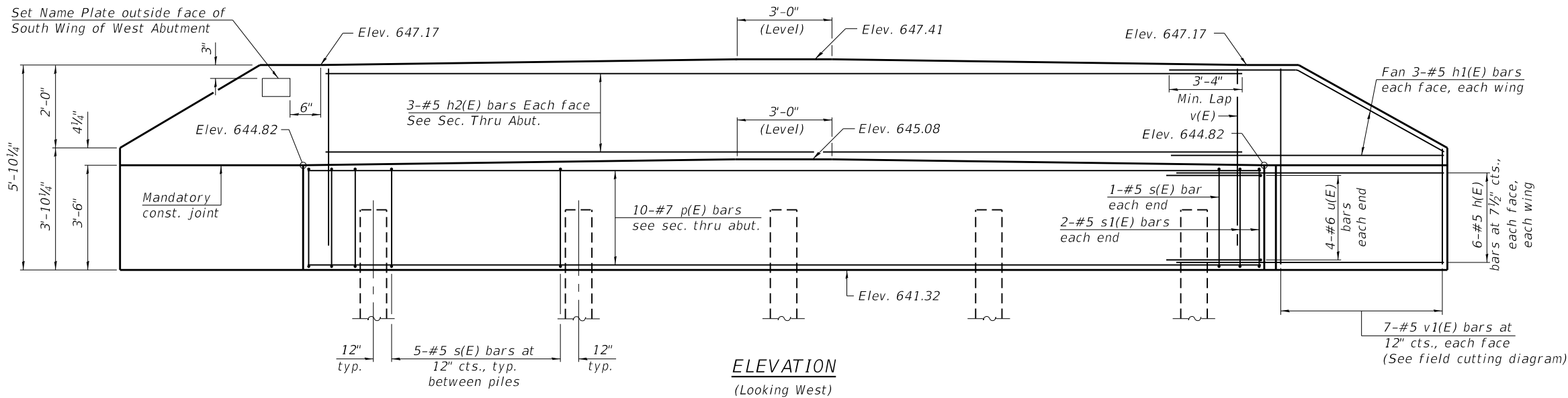
REVISED -
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REVISED -

HANCOCK COUNTY
HIGHWAY DEPARTMENT

STEEL RAILING, TYPE S-1
STRUCTURE NO. 034-4817

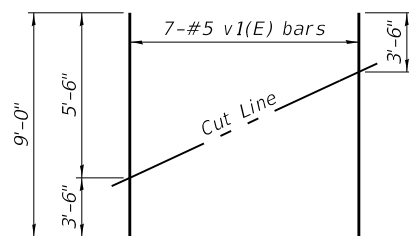
SHEET NO. 5 OF 9 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	24-14119-00-BR	HANCOCK	21	12
CONTRACT NO. 93840				
ILLINOIS FED. AID PROJECT				



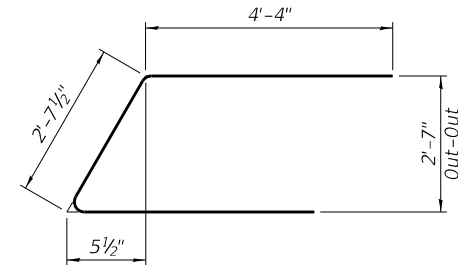
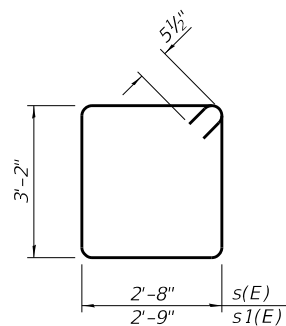
PILE DATA

Type: Steel HP10x42 with Pile Shoes
Nominal Required Bearing: 335 Kips/Pile
Factored Resistance Available: 184 Kips/Pile
Est. Length: 22 Ft./Pile
No. Production Piles: 4
No. Test Piles: 1



FIELD CUTTING DIAGRAM

Order v1(E) bars full length. Cut as shown and use remainder of bars in opposite wing.



BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	24	#5	9'-9"	—
h1(E)	12	#5	10'-6"	—
h2(E)	6	#5	28'-8"	—
p(E)	10	#7	28'-7"	—
s(E)	22	#5	12'-7"	□
s1(E)	4	#5	12'-9"	□
u(E)	8	#6	11'-4"	└
v(E)	56	#5	4'-8"	—
v1(E)	14	#5	9'-0"	—
Concrete Structures			Cu. Yd.	16.5
Reinforcement Bars, Epoxy Coated			Pound	2,020
Furnishing Steel Piles HP10x42			Foot	88
Driving Piles			Foot	88
Test Pile Steel HP10x42			Each	1
Pile Shoes			Each	5
Name Plates			Each	1

Notes:
For details of piles, see sheet 8 of 9.
Cast tops of backwall and wingwalls after beams have been erected.
Space reinforcement in cap to miss dowel rods.

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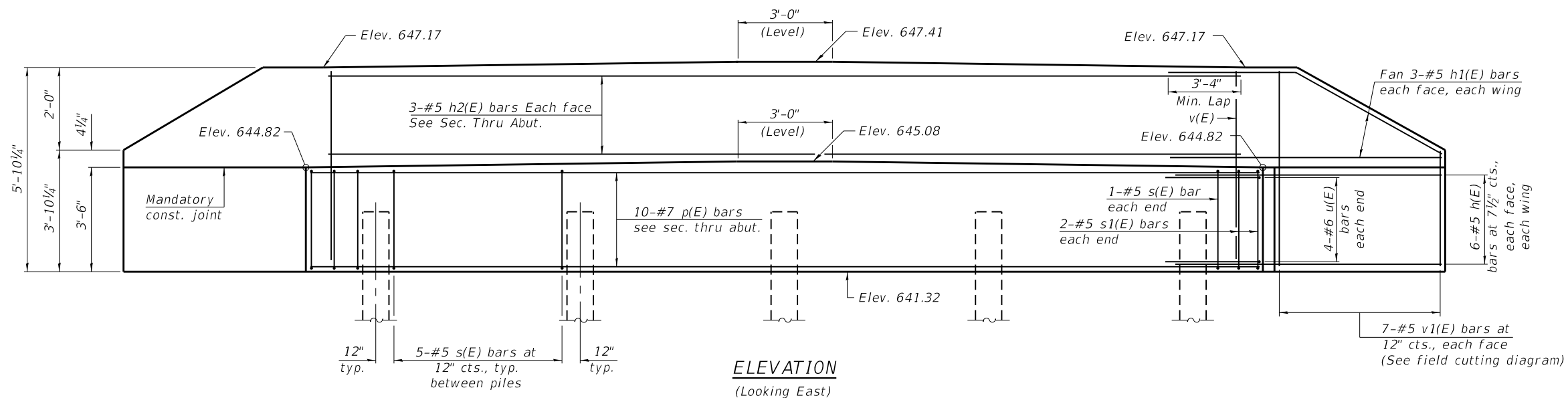
KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors
616 N. 24TH ST. QUINCY, ILLINOIS 62301 217.223-3670
STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = rjp	DESIGNED - RJP	REVISED -
PLOT SCALE = 1:333333 ' / in.	CHECKED - AMS	REVISED -
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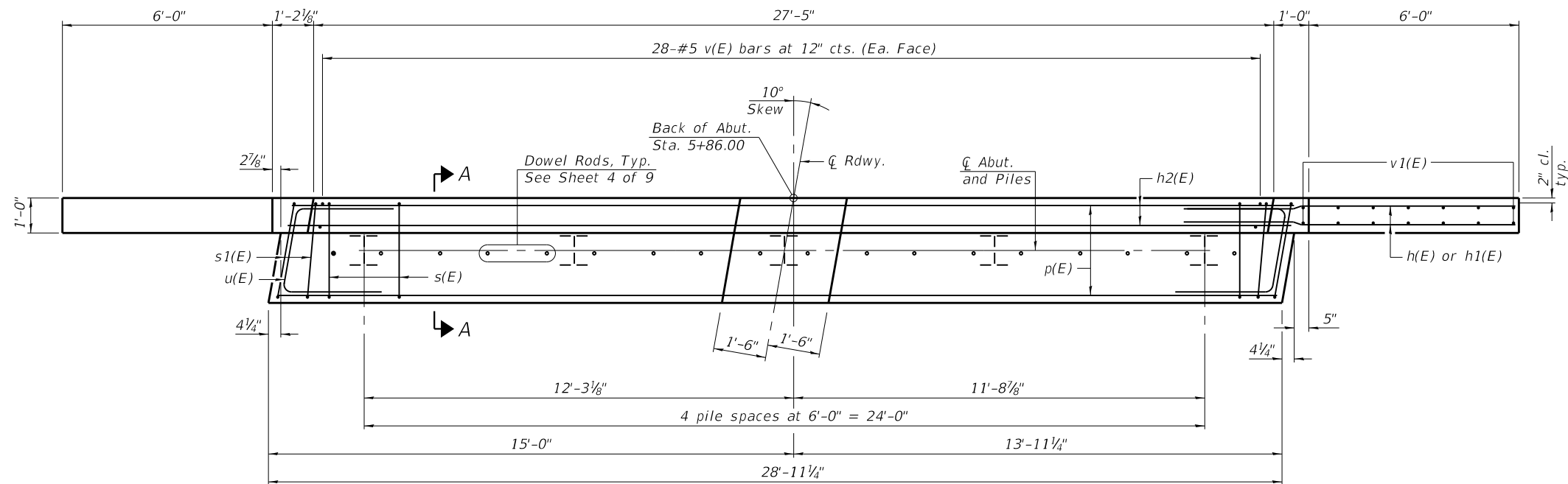
HANCOCK COUNTY
HIGHWAY DEPARTMENT

WEST ABUTMENT
STRUCTURE NO. 034-4817
SHEET NO. 6 OF 9 SHEETS

T.R.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	24-14119-00-BR	HANCOCK	21	13
CONTRACT NO. 93840				
ILLINOIS FED. AID PROJECT				



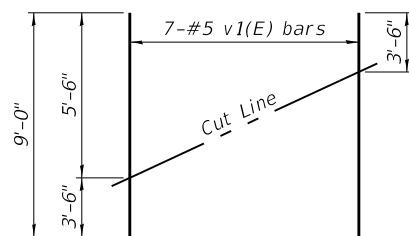
ELEVATION
(Looking East)



PLAN

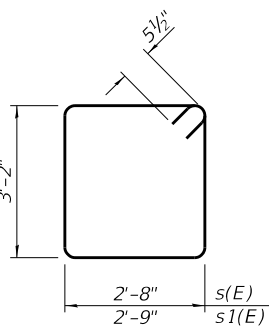
PILE DATA

Type: Steel HP10x42 with Pile Shoes
Nominal Required Bearing: 335 Kips/Pile
Factored Resistance Available: 184 Kips/Pile
Est. Length: 22 Ft./Pile
No. Production Piles: 4
No. Test Piles: 1

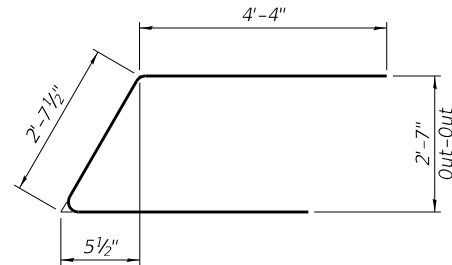


FIELD CUTTING DIAGRAM

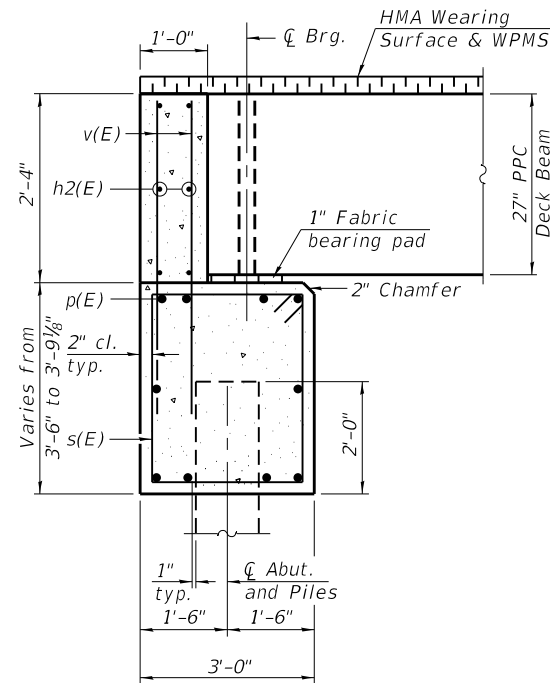
Order v1(E) bars full length. Cut as shown
and use remainder of bars in opposite wing.



BARS s(E) & s1(E)



BAR u(E)

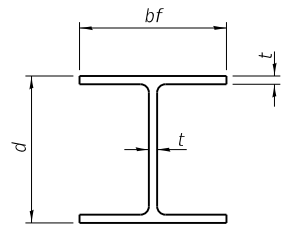


SECTION A-A

BILL OF MATERIAL

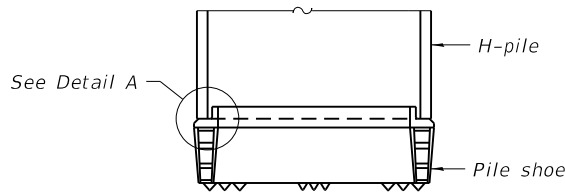
Bar	No.	Size	Length	Shape
h(E)	24	#5	9'-9"	—
h1(E)	12	#5	10'-6"	—
h2(E)	6	#5	28'-8"	—
p(E)	10	#7	28'-7"	—
s(E)	22	#5	12'-7"	□
s1(E)	4	#5	12'-9"	□
u(E)	8	#6	11'-4"	└
v(E)	56	#5	4'-8"	—
v1(E)	14	#5	9'-0"	—
Concrete Structures			Cu. Yd.	16.5
Reinforcement Bars, Epoxy Coated			Pound	2,020
Furnishing Steel Piles HP10x42			Foot	88
Driving Piles			Foot	88
Test Pile Steel HP10x42			Each	1
Pile Shoes			Each	5

Notes:
For details of piles, see sheet 8 of 9.
Cast tops of backwall and wingwalls after
beams have been erected.
Space reinforcement in cap to miss dowel rods.

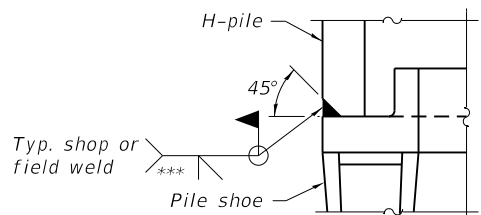


STEEL PILE TABLE

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



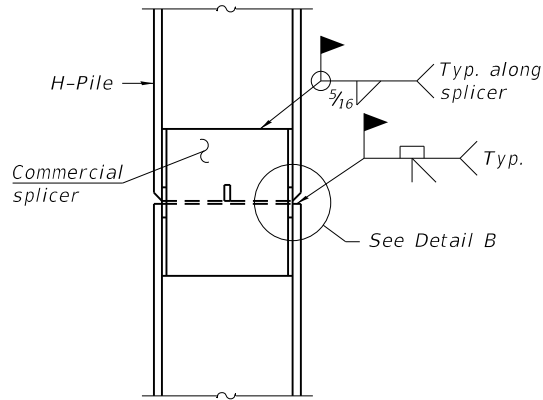
ELEVATION



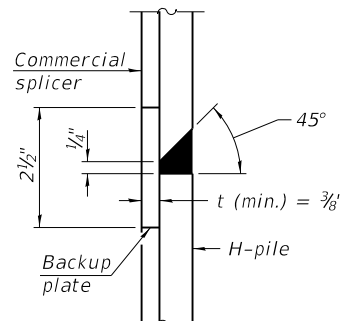
DETAIL A

SHOE ATTACHMENT

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

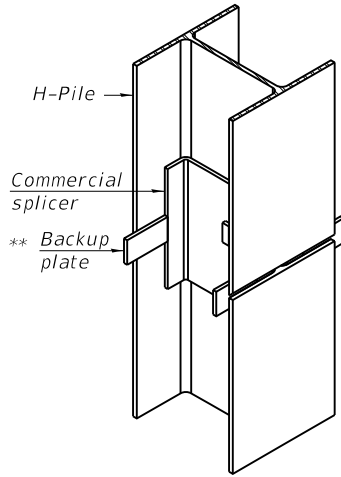


ELEVATION

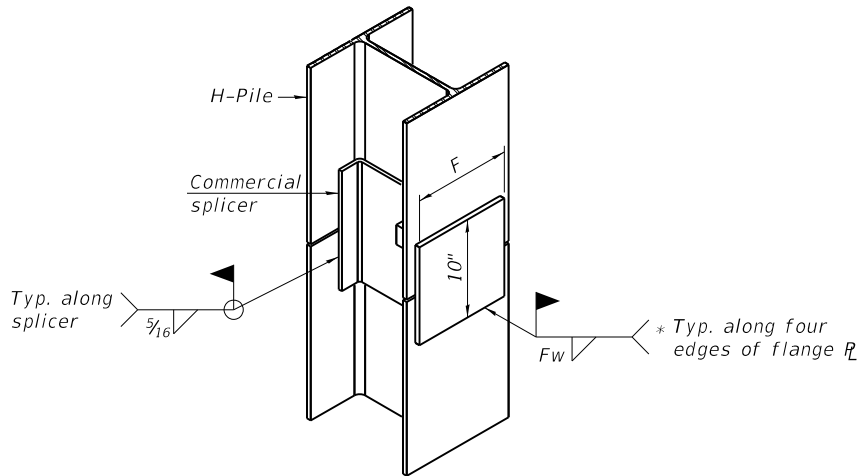


DETAIL "B"

WELDED COMMERCIAL SPLICE



ISOMETRIC VIEW



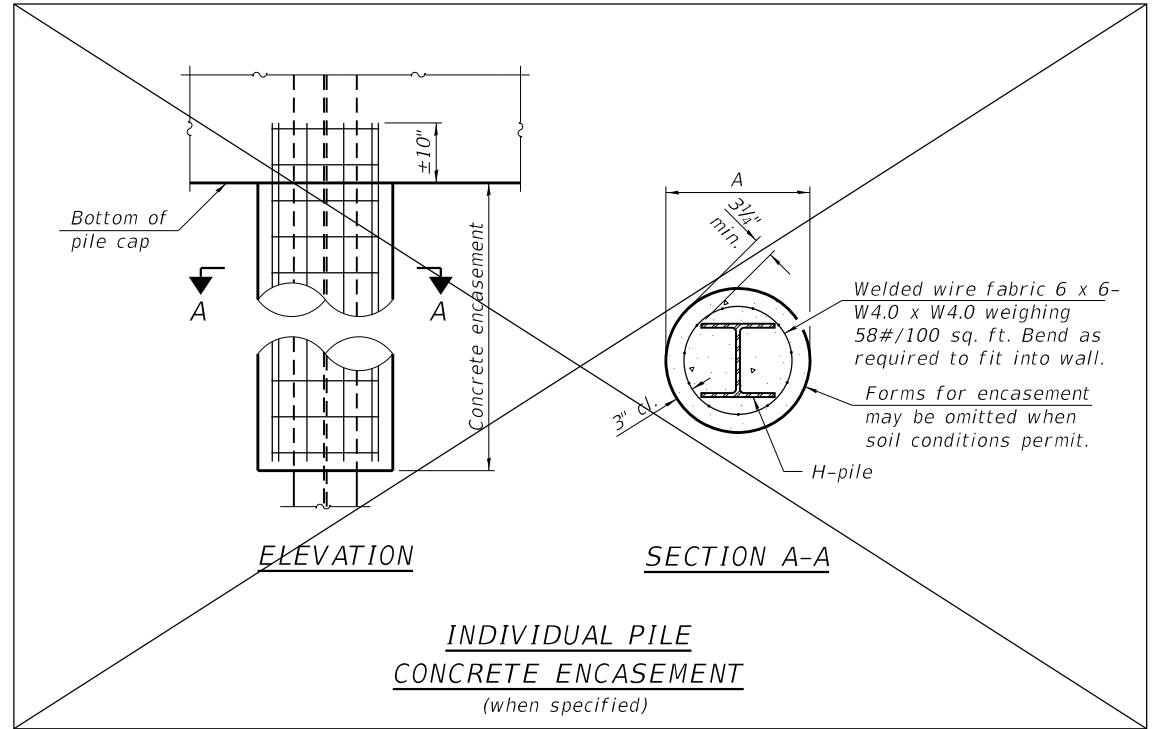
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

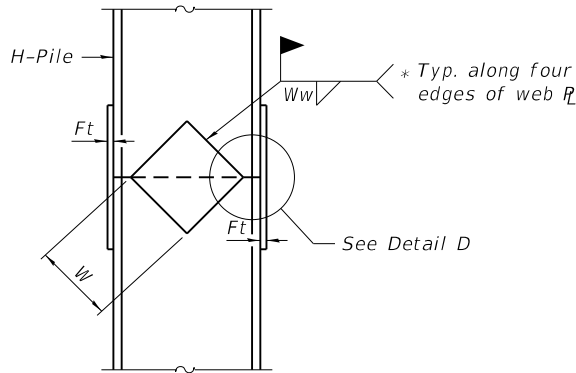
* Interrupt welds 1/4" from end of web and/or each flange.

** Remove portions of backup plates that extend outside the flanges.

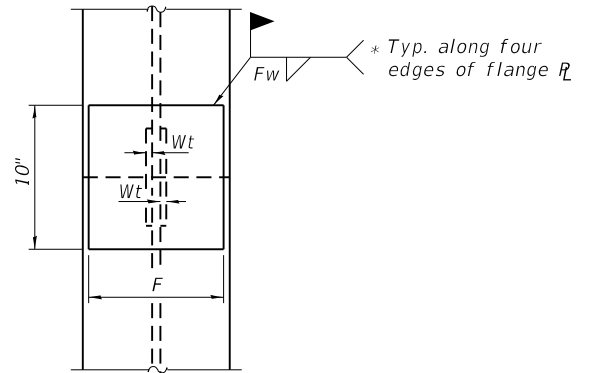
*** Weld size per pile shoe manufacturer (5/16" min.).



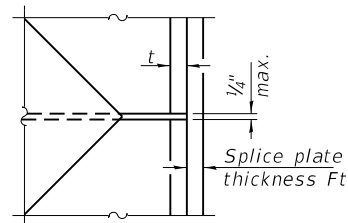
INDIVIDUAL PILE
CONCRETE ENCASEMENT
(when specified)



ELEVATION



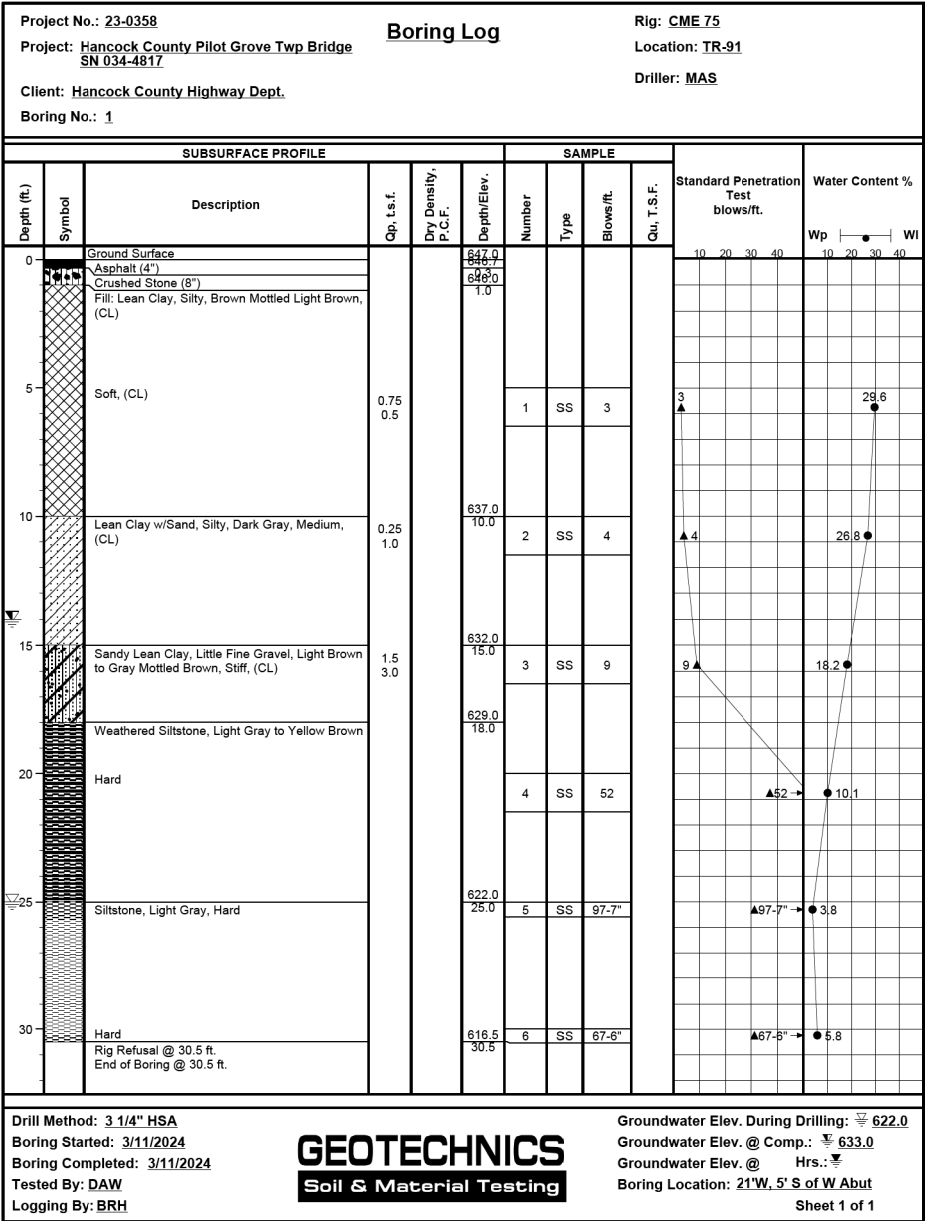
END VIEW



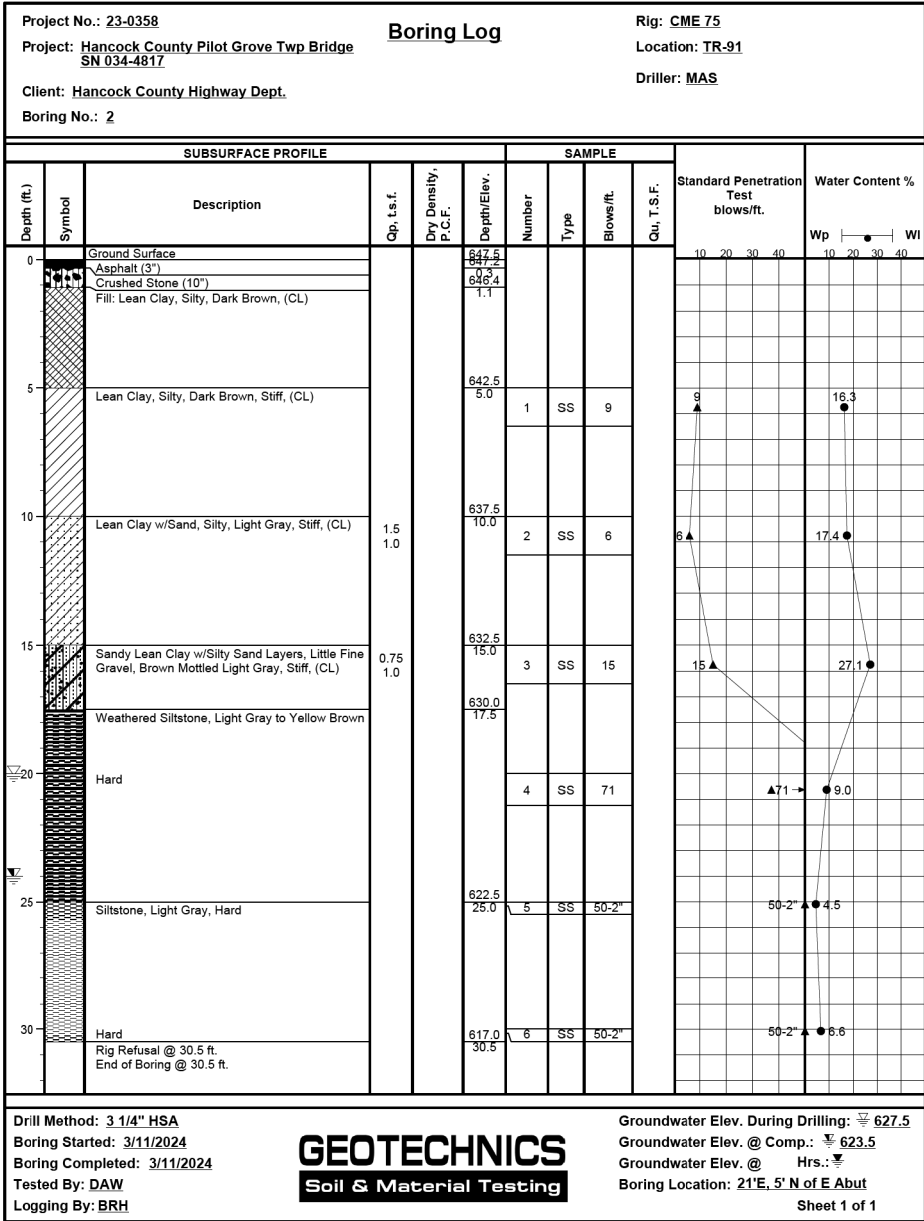
DETAIL D

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"



BORING #1



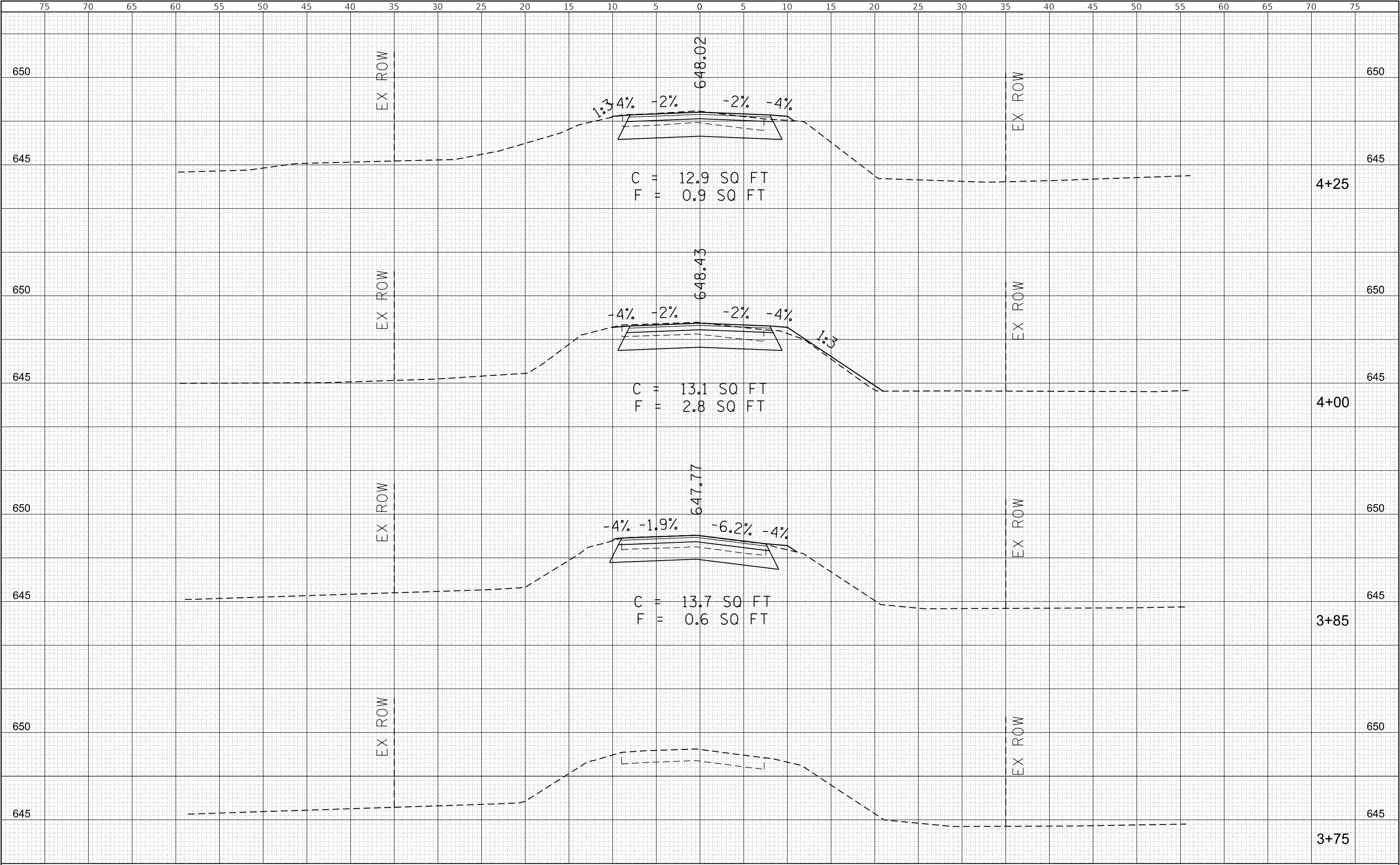
BORING #2

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SURVEY	PLOTTED		
NOTE BOOK	TEMPLATE		
NO.	AREAS CHECKED		

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

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Engineers • Architects • Surveyors
616 NORTH ST. QUINCY, ILLINOIS 62301 217-223-3670
STATE OF ILLINOIS DESIGN FIRM NO. 154-2738

USER NAME = rjp	DESIGNED - RJP	REVISED -
	DRAWN - RJP	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - EBB	REVISED -
PLOT DATE = 4/3/2025	DATE -	REVISED -

**HANCOCK COUNTY
HIGHWAY DEPARTMENT**

**TR 91 (2350N) OVER GROVE CREEK
CROSS SECTIONS**

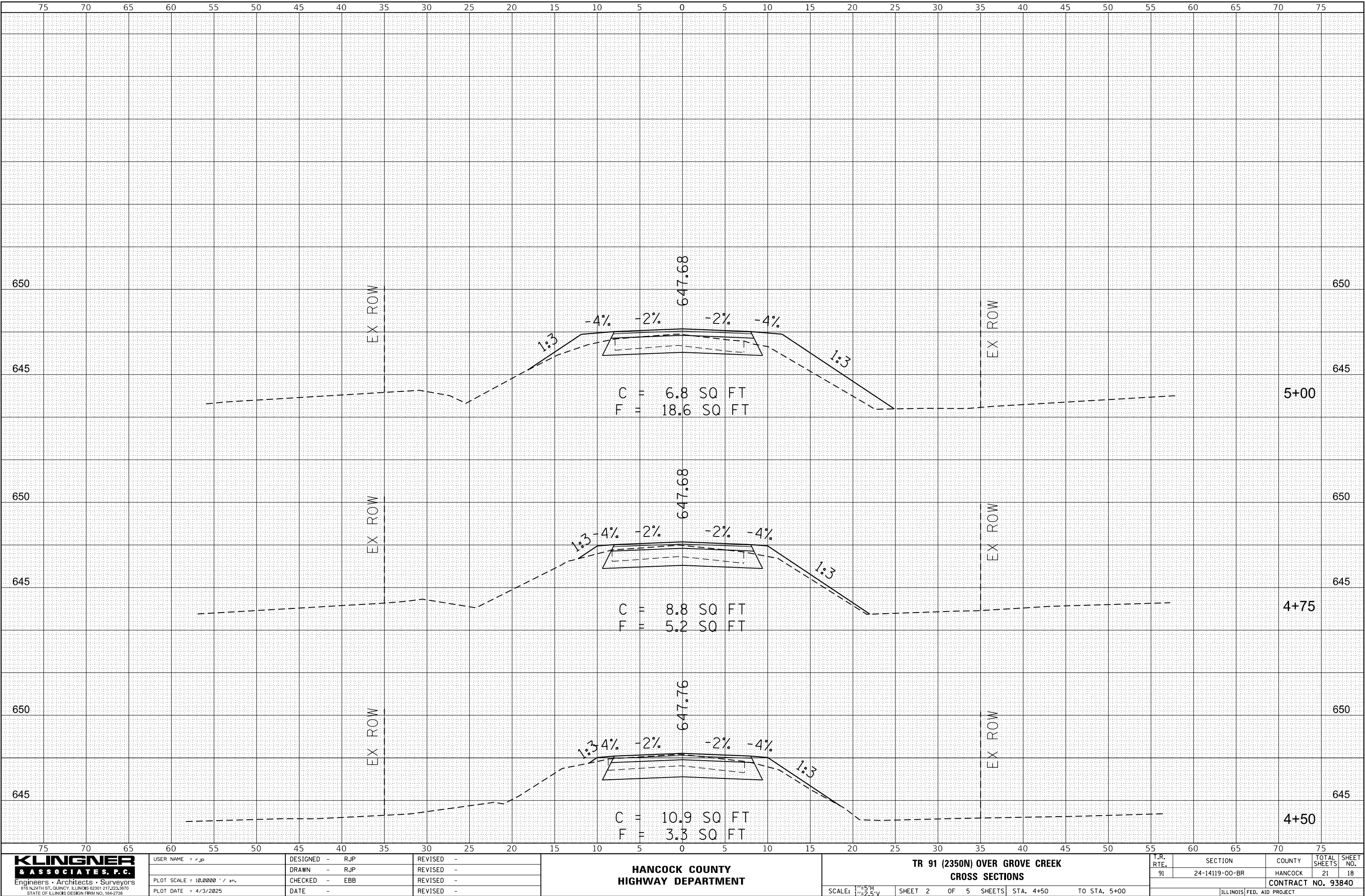
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1"=2.5'V SHEET 1 OF 5 SHEETS STA. 3+75 TO STA. 4+25

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	24-14119-00-BR	HANCOCK	21	17
		CONTRACT NO. 93840		
ILLINOIS		FED. AID PROJECT		

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NOTE BOOK	TEMPLATE		
NO.	AREAS	CHECKED	

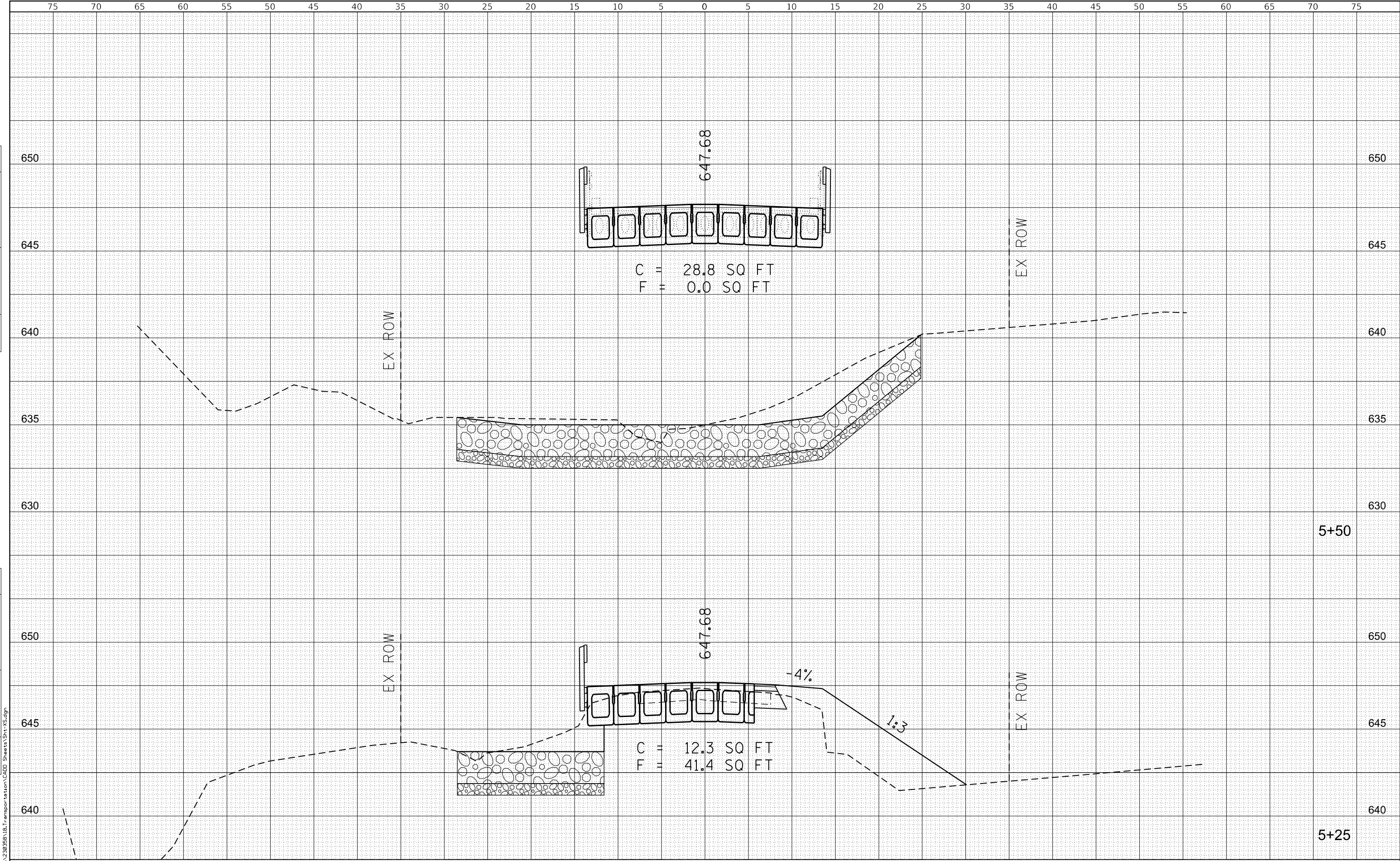
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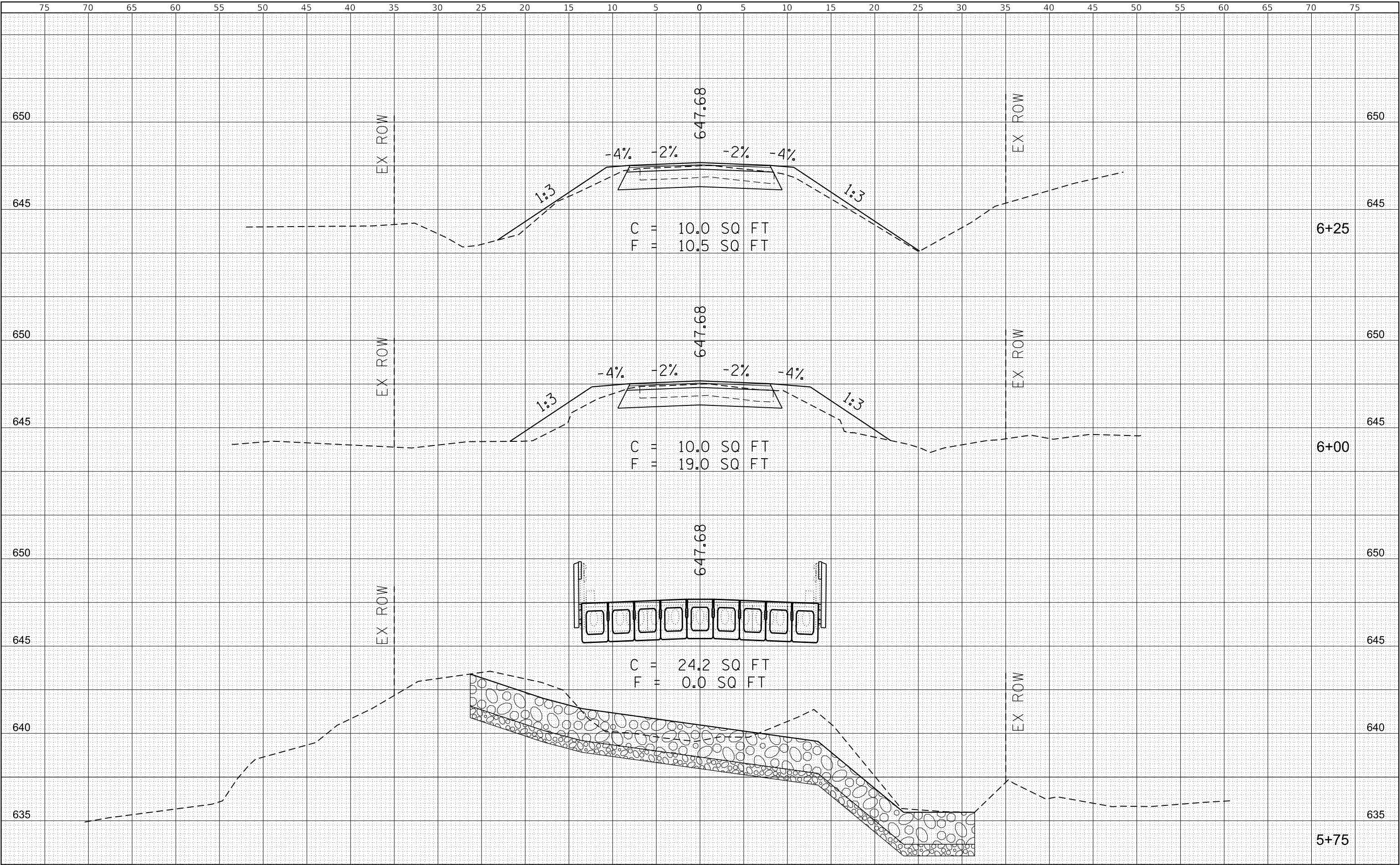
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		NO.	NO.	NO.	NO.



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

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

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PLOT DATE = 4/3/2025	DATE -	REVISED -

**HANCOCK COUNTY
HIGHWAY DEPARTMENT**

**TR 91 (2350N) OVER GROVE CREEK
CROSS SECTIONS**

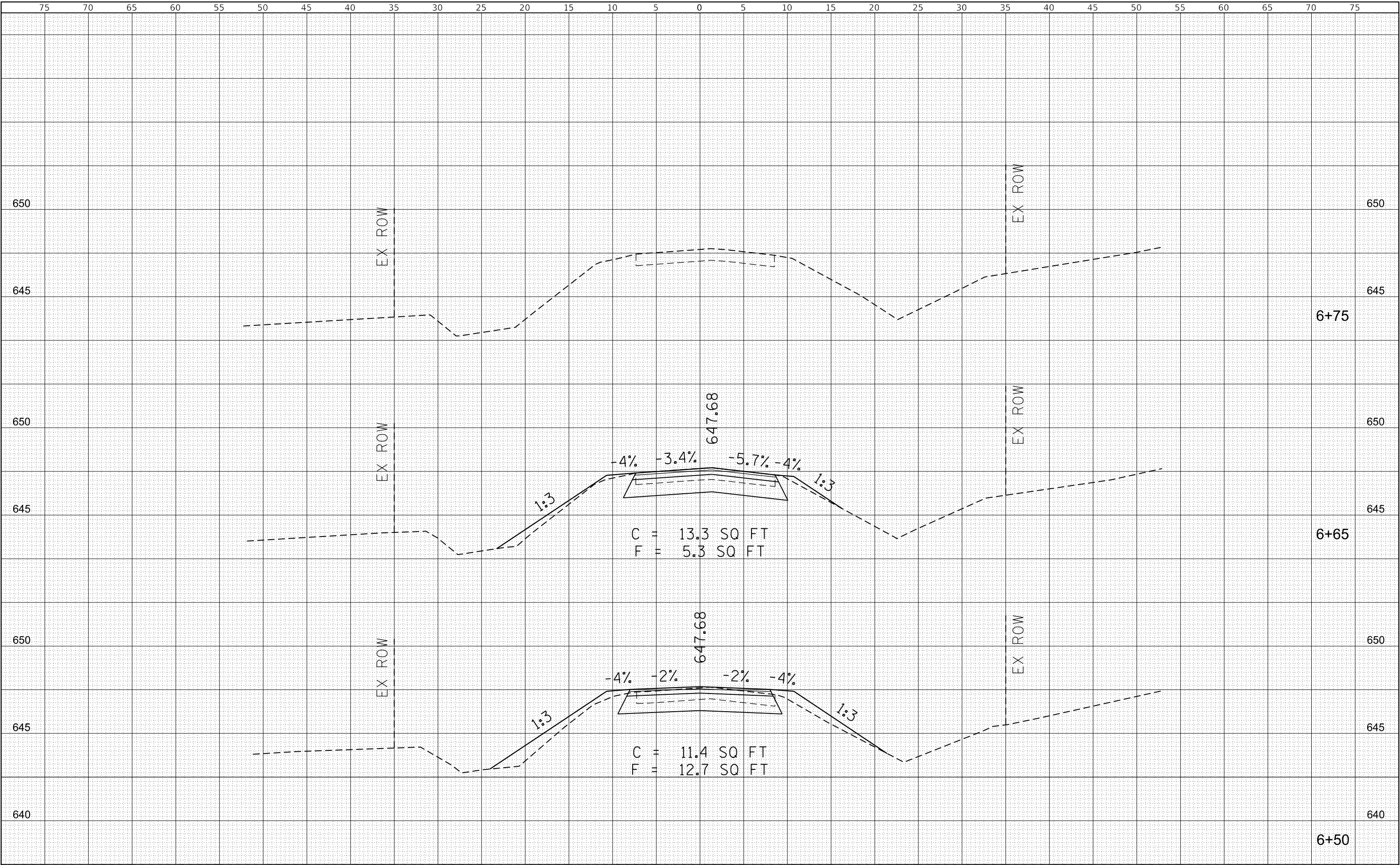
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1"=2.5'V SHEET 4 OF 5 SHEETS STA. 5+75 TO STA. 6+25

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	24-14119-00-BR	HANCOCK	21	20
		CONTRACT NO. 93840		
ILLINOIS		FED. AID PROJECT		

FINAL SURVEY	NO.	SURVEYED	BY	DATE		
					PLOTTED	
						TEMPLATE
NOTE BOOK						

ORIGINAL SURVEY	NO.	SURVEYED	BY	DATE		
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						TEMPLATE
NOTE BOOK						

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USER NAME = rjp	DESIGNED - RJP	REVISED -
	DRAWN - RJP	REVISED -
PLOT SCALE = 10.0000' / in.	CHECKED - EBB	REVISED -
PLOT DATE = 4/3/2025	DATE -	REVISED -

HANCOCK COUNTY
HIGHWAY DEPARTMENT

TR 91 (2350N) OVER GROVE CREEK
CROSS SECTIONS

SCALE: 1"=5'H
1"=2.5'V

SHEET 5 OF 5 SHEETS

STA. 6+50 TO STA. 6+75

T.R. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
91	24-14119-00-BR	HANCOCK	21	21
		CONTRACT NO. 93840		
ILLINOIS		FED. AID PROJECT		