

06-13-2025 LETTING ITEM 175

INDEX OF SHEETS

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ILLINOIS HIGHWAY STANDARDS

000001-08	630001-13	701011-04	BLR 21-9
280001-07	630301-09	701901-10	BLR 27-1
420406	701001-02	725001-01	
515001-04	701006-05	782006-01	

DESIGN DESIGNATION

FAS 1423 (CH 3)
FUNCTIONAL CLASS: MAJOR COLLECTOR
ADT = 100 (2023) 100 (2046)
DESIGN SPEED = 45 MPH

UTILITIES

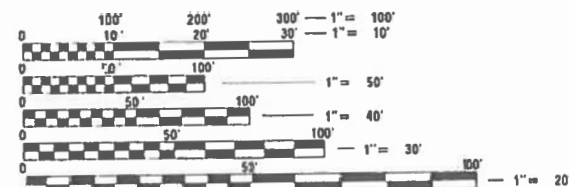
DALLAS RURAL WATER DISTRICT
RODNEY PENCE
(309) 337-0435

FRONTIER COMMUNICATIONS
KALIN HINSHAW
(815) 895-1515

PROJECT DESCRIPTION

Project consists of removing existing structure number 034-3034, a single-span 17" deep precast prestressed concrete deck beam bridge on concrete abutment caps and timber piling carrying FAS 1423 over Deer Creek. The back to back length is 35'-0" and the out to out width is 27'-0". New construction consists of a 36" PPC IL36 N beam bridge on integral abutments and steel H-piling. Additional work includes HMA pavement, aggregate shoulders, guardrail, seeding, disposing of the existing beams, riprap, and other miscellaneous items.

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

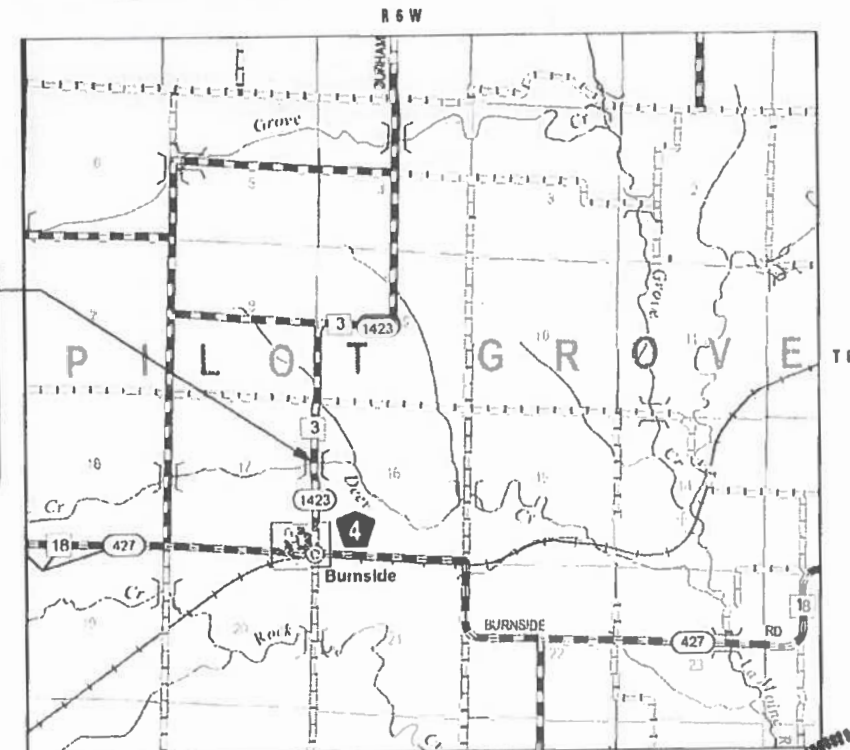


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED LOCAL BRIDGE FORMULA PROGRAM

HANCOCK COUNTY
SECTION 22-00142-00-BR
FAS ROUTE 1423 (C.H. 3)
PROJECT NUMBER VGSL(343)
JOB NUMBER C-96-006-24



LOCATION MAP

SCALE: 1" = 2000'

GROSS /NET LENGTH OF SECTION = 269.00 FT. = 0.051 MILE



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



LOCATION OF SECTION INDICATED THUS: -

APPROVED 2/11/25
Elgin Berry
COUNTY ENGINEER

APPROVED March 19, 2025
Bruce L. [Signature]
DISTRICT SIX ENGINEER OF LOCAL ROADS & STREETS

Releasing For
Bid Based on
Limited Review March 19, 2025
[Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION FOUR ENGINEER

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

Quincy, Illinois
618 North 24th Street
217.223.3570
www.klingner.com
Quincy, IL 62450
Bella, IA 50501
IL DESIGN FIRM NO.: 1842738

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	52
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	30
20200100	EARTH EXCAVATION	CU YD	425
20300100	CHANNEL EXCAVATION	CU YD	315
21001000	GEOTECHNICAL FABRIC FOR GROUND STABILIZATION	SQ YD	392
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
28000315	AGGREGATE DITCH CHECKS	TON	50
28100207	STONE RIPRAP, CLASS A4	TON	1066
28100209	STONE RIPRAP, CLASS A5	TON	742
28200200	FILTER FABRIC	SQ YD	1843
31101000	SUBBASE GRANULAR MATERIAL, TYPE B	TON	40
35101400	AGGREGATE BASE COURSE, TYPE B	TON	224
40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	864
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	69
40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	53
40604050	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N50	TON	26
42000070	PAVEMENT CONNECTOR (HMA) FOR BRIDGE APPROACH SLAB	SQ YD	67
44000100	PAVEMENT REMOVAL	SQ YD	546
48101200	AGGREGATE SHOULDERS, TYPE B	TON	29
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1
50200100	STRUCTURE EXCAVATION	CU YD	198
50300225	CONCRETE STRUCTURES	CU YD	62.8
50300255	CONCRETE SUPERSTRUCTURE	CU YD	83.9
50300260	BRIDGE DECK GROOVING	SQ YD	389
50300300	PROTECTIVE COAT	SQ YD	436
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	83.4
50401315	FURNISHING AND ERECTING PRECAST PRESTRESSED CONCRETE BEAMS, IL36N	FOOT	257
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	58940
* 50901050	STEEL RAILING, TYPE SM	FOOT	134
51201600	FURNISHING STEEL PILES HP12X53	FOOT	164
51265001	DRILLING AND SETTING PILES (IN SOIL)	CU FT	321
51265002	DRILLING AND SETTING PILES (IN ROCK)	CU FT	150
51500100	NAME PLATES	EACH	1

* SPECIALTY ITEM

SUMMARY OF QUANTITIES - CONTINUED

CODE NO.	ITEM	UNIT	TOTAL QUANTITY
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	110
59100100	GEOCOMPOSITE WALL DRAIN	SQ YD	64
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	136
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	25
* 63100075	TRAFFIC BARRIER TERMINAL, TYPE 5A	EACH	4
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4
67100100	MOBILIZATION	L SUM	1
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	16
Z0013798	CONSTRUCTION LAYOUT	L SUM	1
X6640104	FENCE REMOVAL	FOOT	400
X7011800	TRAFFIC CONTROL AND PROTECTION, STANDARD BLR 21	L SUM	1
# Z0076600	TRAINEES	HOURL	500
# Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOURL	500

* SPECIALTY ITEM

0042

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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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 LESTONE	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				
FAS 1423 (CH 3)						
30+00	33+00	LT & RT	423	317	233	84
TOTALS			423	317	233	84
USE			425	315	235	80

RIPRAP SCHEDULE

LOCATION STATION TO STATION		SIDE	STONE RIPRAP	FILTER
			CLASS A4	FABRIC
			TON	SQ YD
FAS 1423 (CH 3)				
30+00.0	31+15.5	RT	230.2	295.9
30+00.0	31+15.5	LT	330.0	424.3
31+82.5	33+00.0	RT	268.3	345.0
31+82.5	33+00.0	LT	236.8	304.5
TOTALS			1065.3	1369.7
USE			1066	1370

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		
FAS 1423 (CH 3)									
30+15.0	30+76.5	LT & RT	22.0	169.1	110.9	349.8	34.2	25.8	12.7
32+21.5	32+84.0	LT & RT	22.0	171.9	112.7	355.5	34.8	26.3	12.9
TOTALS				341.0	223.6	705.3	69.0	52.1	25.6
USE				341	224	705	69	53	26

EROSION CONTROL SCHEDULE

ITEM	UNIT	TOTAL
EARTH EXCAVATION FOR EROSION CONTROL	CU YD	25
TEMPORARY EROSION CONTROL SEEDING	POUND	50
AGGREGATE DITCH CHECKS	TON	50

PAVEMENT CONNECTOR SCHEDULE

LOCATION STATION TO STATION	SIDE	SURFACE WIDTH	GEOTECH FABRIC	SUBBASE GRAN MATL TYPE B	BITUMINOUS MATERIALS (PRIME COAT)	PAVEMENT CONNECTOR (HMA)	
			SQ YD	TON	POUND	SQ YD	
FAS 1423 (CH 3)							
30+76.5	30+86.5	LT & RT	30.0	25.5	9.6	79.1	33.3
32+11.5	32+21.5	LT & RT	30.0	25.5	9.6	79.1	33.3
TOTALS				51.0	19.2	158.2	66.6
USE				51	20	159	67

SUBBASE GRANULAR MATERIAL, TYPE B

STATION TO STATION		SIDE	TON
FAS 1423 (CH 3)			
30+93.5	31+06.5	LT & RT	10.0
31+91.5	32+04.5	LT & RT	10.0
TOTAL			20.0
USE			20

TREE REMOVAL SCHEDULE

STATION	SIDE	OFFSET	6 TO 15 UNITS DIAMETER	OVER 15 UNITS DIAMETER
			UNIT	
FAS 1423 (CH 3)				
30+96.0	LT	36.2	6	
31+07.8	LT	34.4	6	
31+16.3	LT	32.0		30
31+23.7	LT	32.0	15	
31+24.3	LT	30.3	15	
31+25.7	LT	40.4	10	
TOTALS			52	30

PAVEMENT REMOVAL

STATION TO STATION		SIDE	SQ YD
FAS 1423 (CH 3)			
30+15.0	31+34.6	LT & RT	280.1
31+69.5	32+84.0	LT & RT	265.7
TOTAL			545.8
USE			546

AGGREGATE SHOULDERS, TYPE B

STATION TO STATION		SIDE	TON
FAS 1423 (CH 3)			
30+15.0	30+76.5	RT	7.0
30+15.0	30+76.5	LT	7.0
32+21.5	32+84.0	LT	7.1
32+21.5	32+84.0	RT	7.1
TOTAL			28.2
USE			29

GUARDRAIL SCHEDULE

STATION TO STATION		SIDE	SPBGR TYPE A 6' POSTS	TRAF BARRIER TERMINAL		GUARDRAIL REFLECTORS TYPE A	TERMINAL MARKERS DIRECT APPLIED
				TYPE 5A	TYPE 1 SPECIAL (TANGENT)		
			FOOT		EACH		
FAS 1423 (CH 3)							
30+39.75	31+15.60	RT	12.5	1	1	4	1
30+52.25	31+15.60	LT		1	1	4	1
31+82.50	32+45.75	RT		1	1	4	1
31+82.50	32+58.25	LT	12.5	1	1	4	1
TOTALS			25.0	4	4	16	4

FENCE REMOVAL

STATION TO STATION		SIDE	SQ YD
FAS 1423 (CH 3)			
29+50	33+50	LT	400.0
TOTAL			400

CONCRETE HEADWALLS FOR PIPE DRAINS

STATION TO STATION		SIDE	EACH
NORTH ABUTMENT			
		LT & RT	2
SOUTH ABUTMENT			
		LT & RT	2
TOTAL			4

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LEGEND

- E1

EXISTING 12" HMA/A-3
- E2

EXISTING AGG BSE CSE, 12"
- E3

EXISTING AGG SHLD
- 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

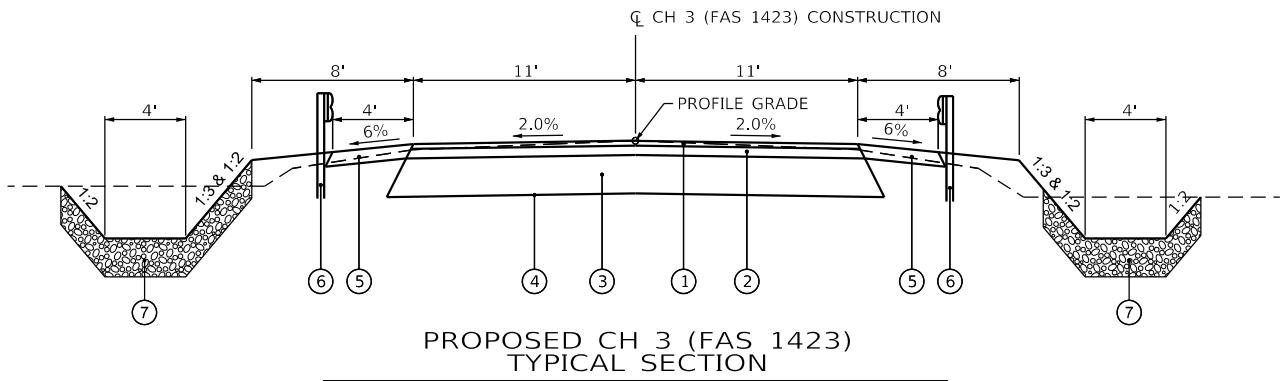
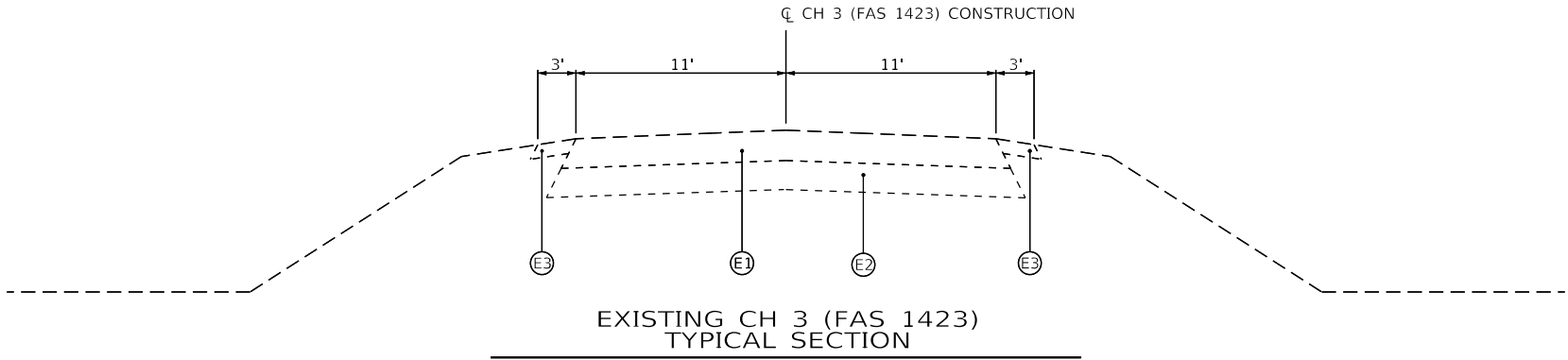
PROPOSED AGGREGATE BASE COURSE, TYPE B, 12"
- 4

PROPOSED GEOTECHNICAL FABRIC
- 5

PROPOSED AGGREGATE SHOULDER, TYPE B, 4 1/2"
- 6

PROPOSED GUARDRAIL
- 7

PROPOSED RIPRAP (SEE PLAN SHEET)



NOTE: SEE CROSS SECTIONS FOR DITCH SECTIONS.

STA 30+15.00 TO STA 30+76.50
STA 30+86.50 TO STA 32+11.50 (SN 034-3035)
STA 32+21.50 TO STA 32+84.00

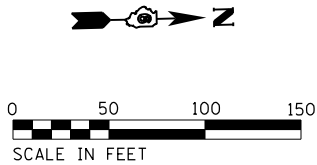
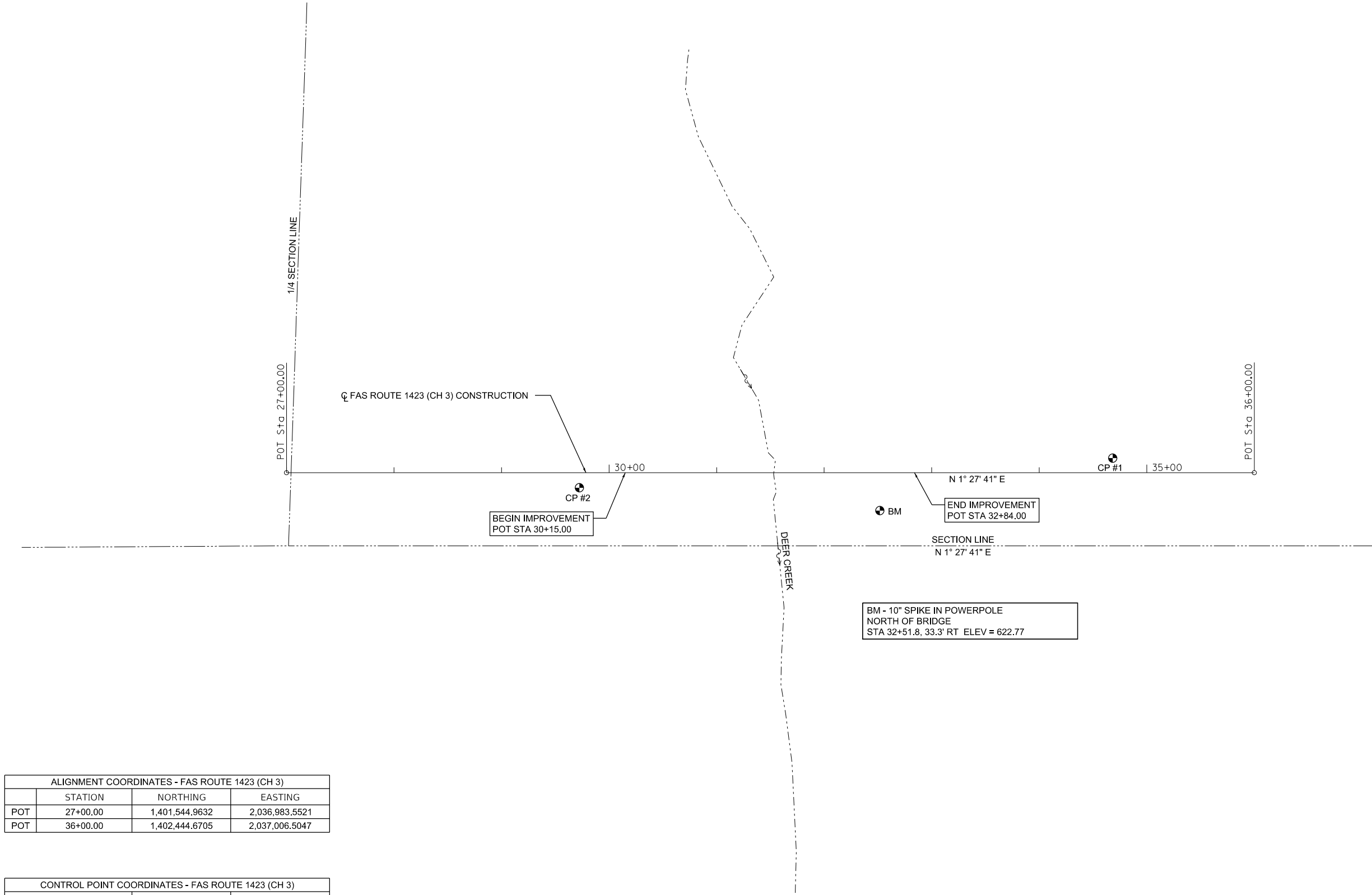
NOTE: (SEE BRIDGE PLANS)
BRIDGE APPROACH CONNECTOR STA 30+76.50 TO STA 30+86.50
BRIDGE APPROACH PAVEMENT STA 30+86.50 TO STA 31+16.50
SN 034-3035 STA 31+15.50 TO STA 31+82.50
BRIDGE APPROACH PAVEMENT STA 31+81.5 TO STA 32+11.50
BRIDGE APPROACH PAVEMENT CONNECTOR STA 32+11.50 TO STA 32+21.50

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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 Pr. Quincy, IL 62301	USER NAME = rjp	DESIGNED - RJP	REVISED -	HANCOCK COUNTY HIGHWAY DEPARTMENT	FAS 1423 (CH 3) OVER DEER CREEK TYPICAL SECTIONS					F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 40.0000' / in.	DRAWN - RJP	REVISED -							1423	22-00142-00-BR	HANCOCK	31	4	
	PLOT DATE = 2/11/2025	CHECKED - EBB	REVISED -		SCALE: NONE					SHEET 1 OF 1 SHEETS		STA. TO STA.		CONTRACT NO. 93836	
		DATE -	REVISED -									ILLINOIS FED. AID PROJECT			

ALIGNMENT COORDINATES - FAS ROUTE 1423 (CH 3)			
	STATION	NORTHING	EASTING
POT	27+00.00	1,401,544.9632	2,036,983.5521
POT	36+00.00	1,402,444.6705	2,037,006.5047

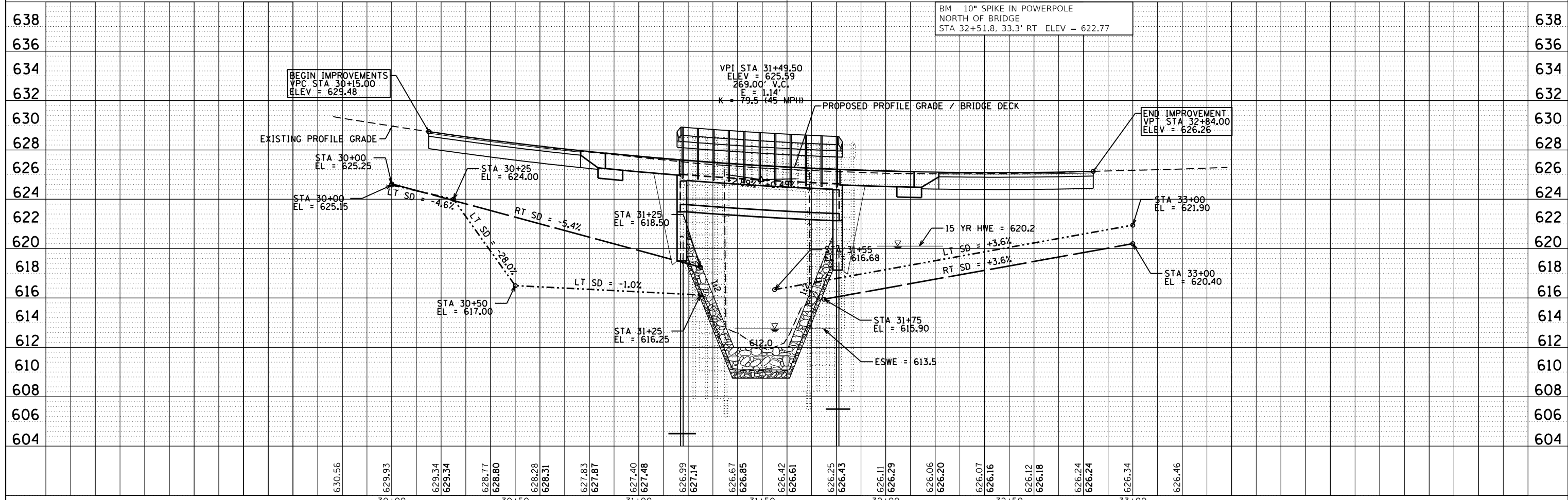
CONTROL POINT COORDINATES - FAS ROUTE 1423 (CH 3)		
CONTROL POINT #	NORTHING	EASTING
1	1,402,313.3710	2,036,989.5840
2	1,401,816.8660	2,037,004.4540



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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	FAS 1423 (CH 3) OVER DEER CREEK HORIZONTAL CONTROL			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 100.0000' / in.	DRAWN - RJP	REVISED -					1423	22-00142-00-BR	HANCOCK	31	5
	PLOT DATE = 2/11/2025	CHECKED - EBB	REVISED -		SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. 27+00.00 TO STA. 36+00.00			CONTRACT NO. 93836				
		DATE -	REVISED -					ILLINOIS FED. AID PROJECT				

PROFILE		BY	DATE
	SURVEYED _____		
	PLOTTED _____		
	GRADES CHECKED _____		
NOTE BOOK	B.M. NOTED _____		
NO. _____	STRUCTURE NOTED AS CHK'D _____		



FILE NAME = P:\Quincy\22Files\220346\18.Transportation Default	USER NAME = rjp	DESIGNED -	REVISED -	HANCOCK COUNTY HIGHWAY DEPARTMENT	CH 3 (2100E) OVER DEER CREEK PLAN & PROFILE SHEET			F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	CADD Sheets\Sht-Plan01.dgn	DRAWN -	REVISED -					1423	22-00142-00-BR	HANCOCK	31	6
	PLOT SCALE = 40.0000 ' / in.	CHECKED -	REVISED -					CONTRACT NO. 93836				
	PLOT DATE = 2/11/2025	DATE -	REVISED -					SCALE: 1" = 20'	SHEET 1 OF 1 SHEETS	STA. 28+50 TO STA. 34+50	ILLINOIS FED. AID PROJECT	

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 C.H. 3 (FAS 1423), 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)



3000 1500 0 3000
GRAPHIC SCALE (IN FEET)
SCALE: 1"=1,500'

TRAFFIC CONTROL PLAN

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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
DRAWN - RJP
CHECKED - EBB
DATE -
PLOT SCALE = 10.0000' / in.
PLOT DATE = 2/11/2025

DESIGNED - RJP
DRAWN - RJP
CHECKED - EBB
DATE -
REVISED -
REVISED -
REVISED -
REVISED -

HANCOCK COUNTY
HIGHWAY DEPARTMENT

FAS 1423 (CH 3) OVER DEER CREEK
TRAFFIC CONTROL PLAN

SCALE: 1"=1500' SHEET 1 OF 1 SHEETS STA. TO STA.

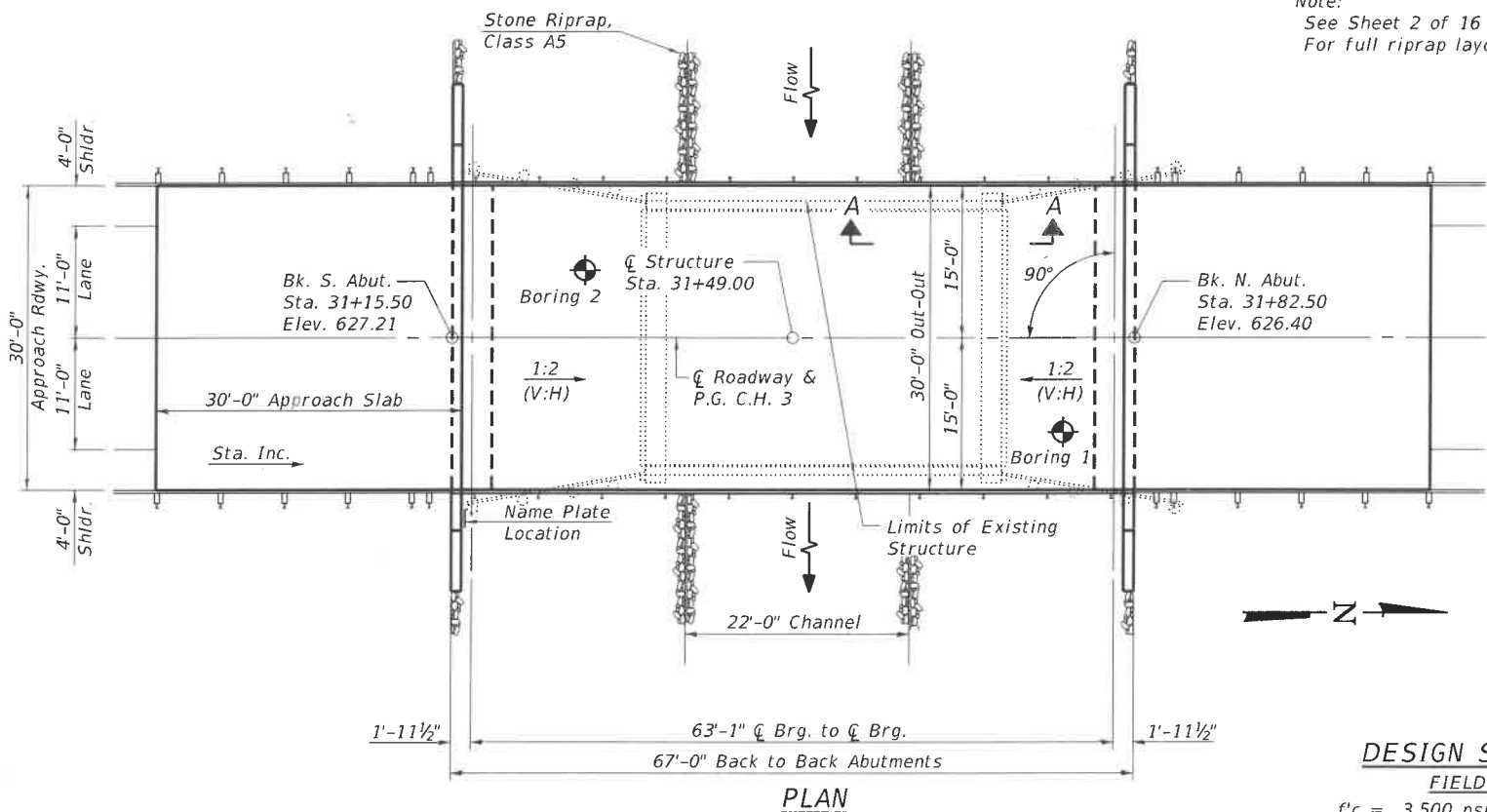
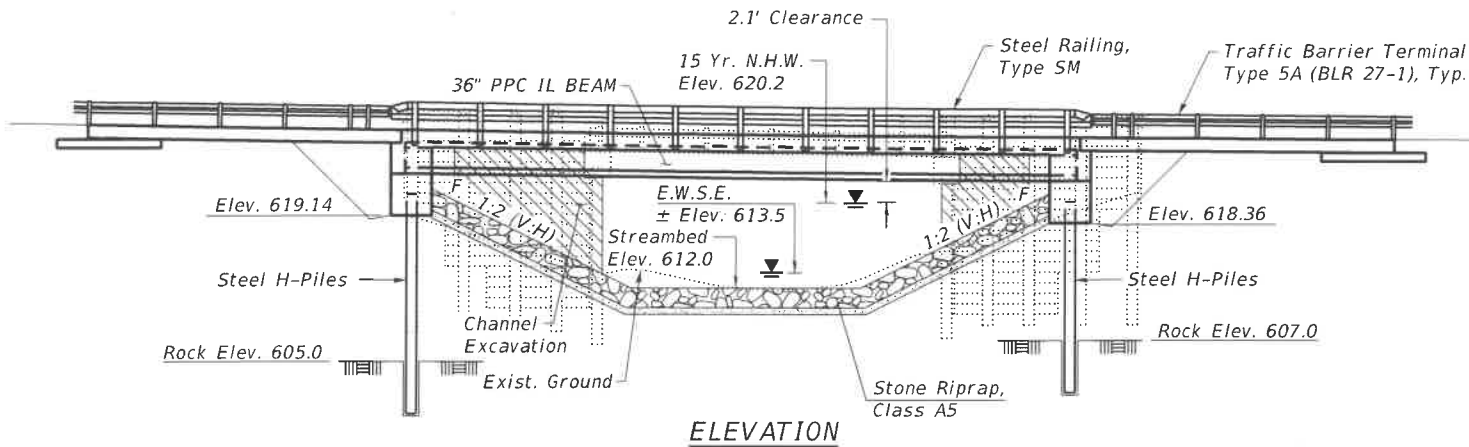
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1423	22-00142-00-BR	HANCOCK	31	7
CONTRACT NO. 93836				
ILLINOIS FED. AID PROJECT				

Bench Mark: 10" spike in power pole north of bridge, Sta. 32+51.8, 33.3' Rt., NAVD 88 Elev. 622.77.

Existing Structure: Structure Number 034-3034 was originally built in 1966 under Section 32 B-2 in Hancock County. The structure consists of 9-17" deep precast concrete deck beams on concrete pile caps and closed timber abutments and timber piles. The back-to-back abutment length is 35'-0" and the out to out bridge width is 27'-0".

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

The existing steel H-pile repairs at the abutments will remain property of the Hancock County Highway Department. See Special Provisions. Contact Elgin Berry at (217) 357-3155 to arrange a pick-up time.



SEISMIC DATA

Seismic Performance Zone (SPZ) = 1
Design Spectral Acceleration at 1.0 sec. (SD1) = 0.085g
Design Spectral Acceleration at 0.2 sec. (SDS) = 0.12g
Soil Site Class = C

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

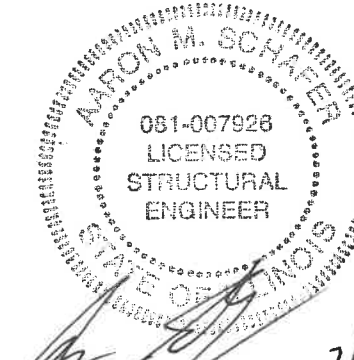
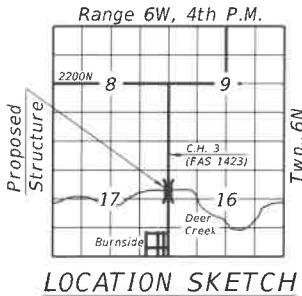
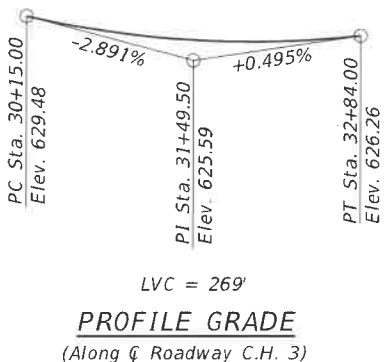
f'_c = 3,500 psi (Substructure)
 f'_c = 4,000 psi (Approach Slabs)
 f'_c = 5,000 psi (Superstructure)
 f_y = 60,000 psi (Reinforcement)
PRECAST PRESTRESSED UNITS
 f'_c = 8,500 psi
 f'_{ci} = 6,500 psi
 f_{pu} = 270,000 psi (0.6" dia. low lax. strands)
 f_{pbt} = 202,300 psi (0.6" dia. low lax. strands)

INDEX OF SHEETS

- 1 General Plan & Elevation
- 2 General Notes and Details
- 3 Top of Slab Elevations
- 4 Top of South Approach Slab Elevations
- 5 Top of North Approach Slab Elevations
- 6 Superstructure
- 7 Diaphragm Details
- 8 Steel Railing, Type SM
- 9 Bridge Approach Slab Details
- 10 Framing Plan
- 11 IL36N Beam
- 12 IL36N Beam Details
- 13 South Abutment
- 14 North Abutment
- 15 HP Pile Details
- 16 Boring Logs

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Channel Excavation	Cu. Yd.		315	315
Stone Riprap, Class A5	Ton		742	742
Filter Fabric	Sq. Yd.		473	473
Removal of Existing Structures	Each		1	1
Structure Excavation	Cu. Yd.		198	198
Concrete Structures	Cu. Yd.		62.8	62.8
Concrete Superstructure	Cu. Yd.	83.9		83.9
Bridge Deck Grooving	Sq. Yd.	389		389
Protective Coat	Sq. Yd.	436		436
Concrete Superstructure (Approach Slab)	Cu. Yd.	83.4		83.4
Furnishing and Erecting Precast Prestressed Concrete Beams, IL36N	Foot	257		257
Reinforcement Bars, Epoxy Coated	Pound	46,920	12,020	58,940
Steel Railing, Type SM	Foot	134		134
Furnishing Steel Piles HP12x53	Foot		164	164
Drilling and Setting Piles (In Soil)	Cu. Ft.		321	321
Drilling and Setting Piles (In Rock)	Cu. Ft.		150	150
Name Plates	Each	1		1
Granular Backfill for Structures	Cu. Yd.		110	110
Geocomposite Wall Drain	Sq. Yd.		64	64
Pipe Underdrains for Structures 4"	Foot		136	136



Aaron M. Schafer
Licensed Structural Engineer
State of Illinois No. 081-007926
License Expires 11/30/2024

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
FAS 1423 (C.H. 3) OVER DEER CREEK
SECTION 22-00142-00-BR
HANCOCK COUNTY
STATION 31+49.00
STRUCTURE NO. 034-3035

KLINGNER & ASSOCIATES, P.C.
Engineers • Architects • Surveyors
618 N. 24TH ST. QUINCY, ILLINOIS 62451
STATE OF ILLINOIS DESIGN FIRM NO. 186-2738

USER NAME = rjp
PLOT SCALE = 1:333333 1" = 100'
PLOT DATE = 2/11/2025

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

REVISED -
REVISED -
REVISED -
REVISED -

HANCOCK COUNTY
HIGHWAY DEPARTMENT

GENERAL PLAN & ELEVATION
STRUCTURE NO. 034-3035

SHEET NO. 1 OF 16 SHEETS

F.A.S. RTE. 1423
SECTION 22-00142-00-BR
COUNTY HANCOCK
TOTAL SHEETS 31
SHEET NO. 8
CONTRACT NO. 93836
ILLINOIS FED. AID PROJECT

GENERAL NOTES

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.

Current Ratings on File for Existing Structure

S.N. 034-3034:
Inventory - 0.29
Operating - 1.40
Live Load Restrictions: Yes - Legal Loads only
No loads are to be placed on existing bridge during removal.

WATERWAY INFORMATION

Drainage Area = 4.4 Sq. Mi.				Exist. Overtopping Elev. 626.05 @ Sta. 32+28					
				Prop. Overtopping Elev. 626.16 @ Sta. 32+45					
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.
	10	992	224	296	619.9	0.1	0.1	620.0	619.9
Design	15	1,150	236	315	620.2	0.2	0.1	620.4	620.3
Base	100	1,850	274	381	621.4	0.5	0.1	621.9	621.5
Scour Design	200	2,120	286	404	621.8	0.7	0.2	622.4	621.9
Overtop Exist.	N/A								
Overtop Prop.	N/A								
Max. Calc.	500	2,490	301	432	622.2	0.9	0.2	623.1	622.5

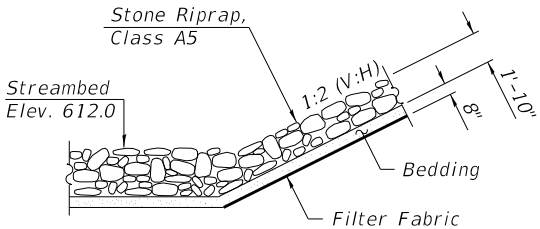
10 year velocity through proposed bridge = 3.3 ft./sec.

DESIGN SCOUR ELEVATION TABLE

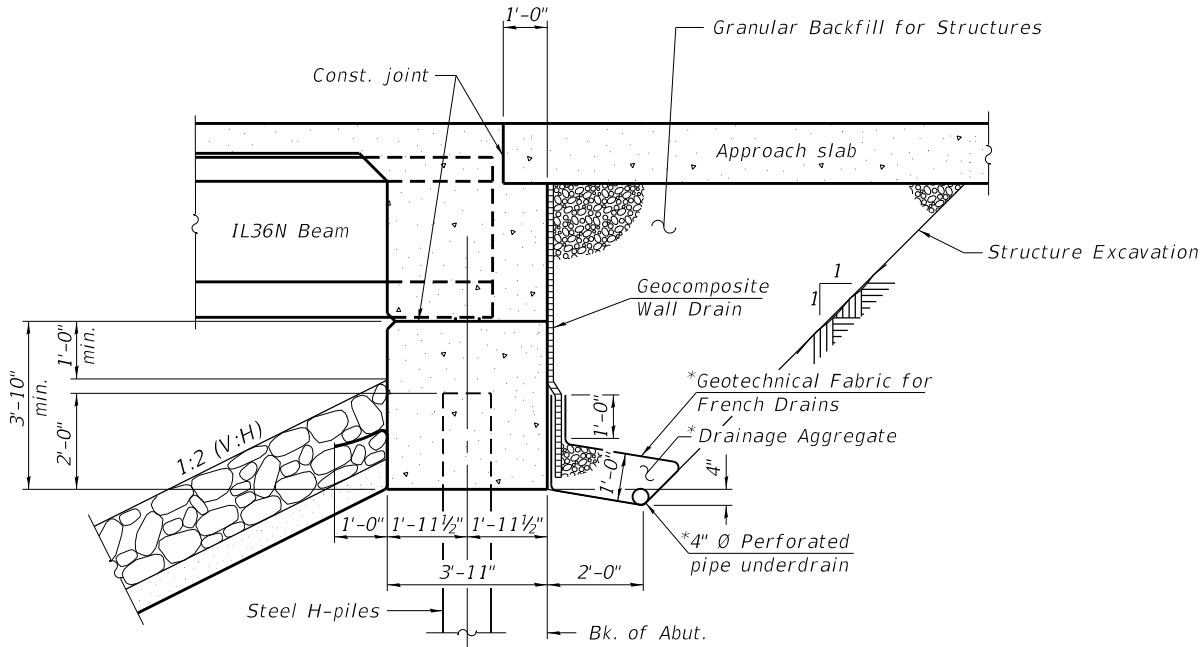
Event / Limit State	Design Scour Elevations (ft.)		
	S. Abut.	N. Abut.	Item 113
Q100	619.14	618.36	8
Q200	619.14	618.36	
Design	619.14	618.36	
Check	619.14	618.36	

DEER CREEK
BUILT 202_ BY
HANCOCK COUNTY
SECTION 22-00142-00-BR
C.H. 3 STATION 31+49.00
STR. NO. 034-3035 LOADING HL-93

NAME PLATE
See Std. 515001

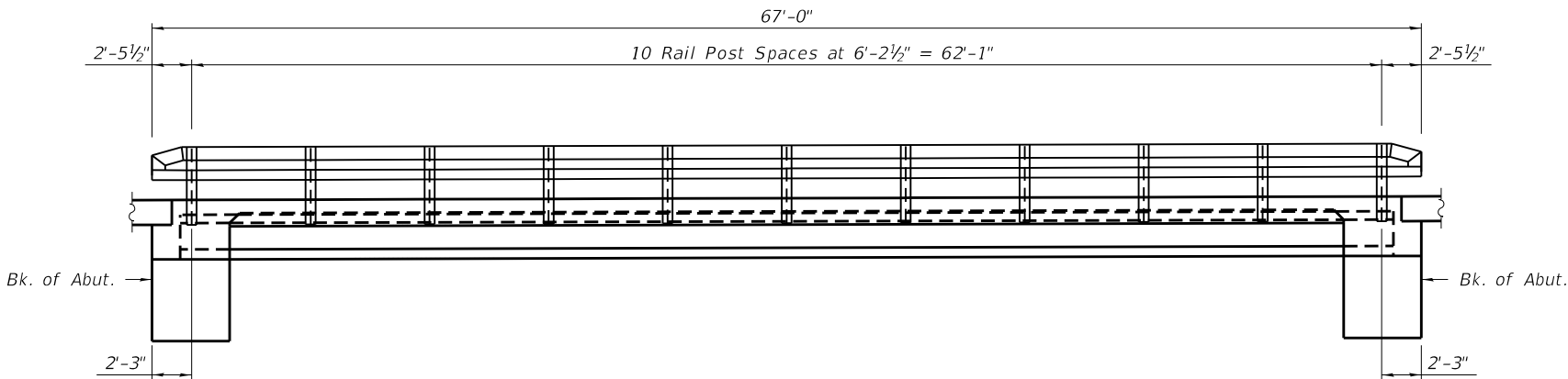


SECTION A-A



SECTION THRU INTEGRAL ABUTMENT

*Included in the cost of Pipe Underdrains for Structures



RAIL POST SPACING

FILE NAME: P:\Quincy\22\files\220346\18.Transportation\Structure Plans\Final Bridge Plans.dgn

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

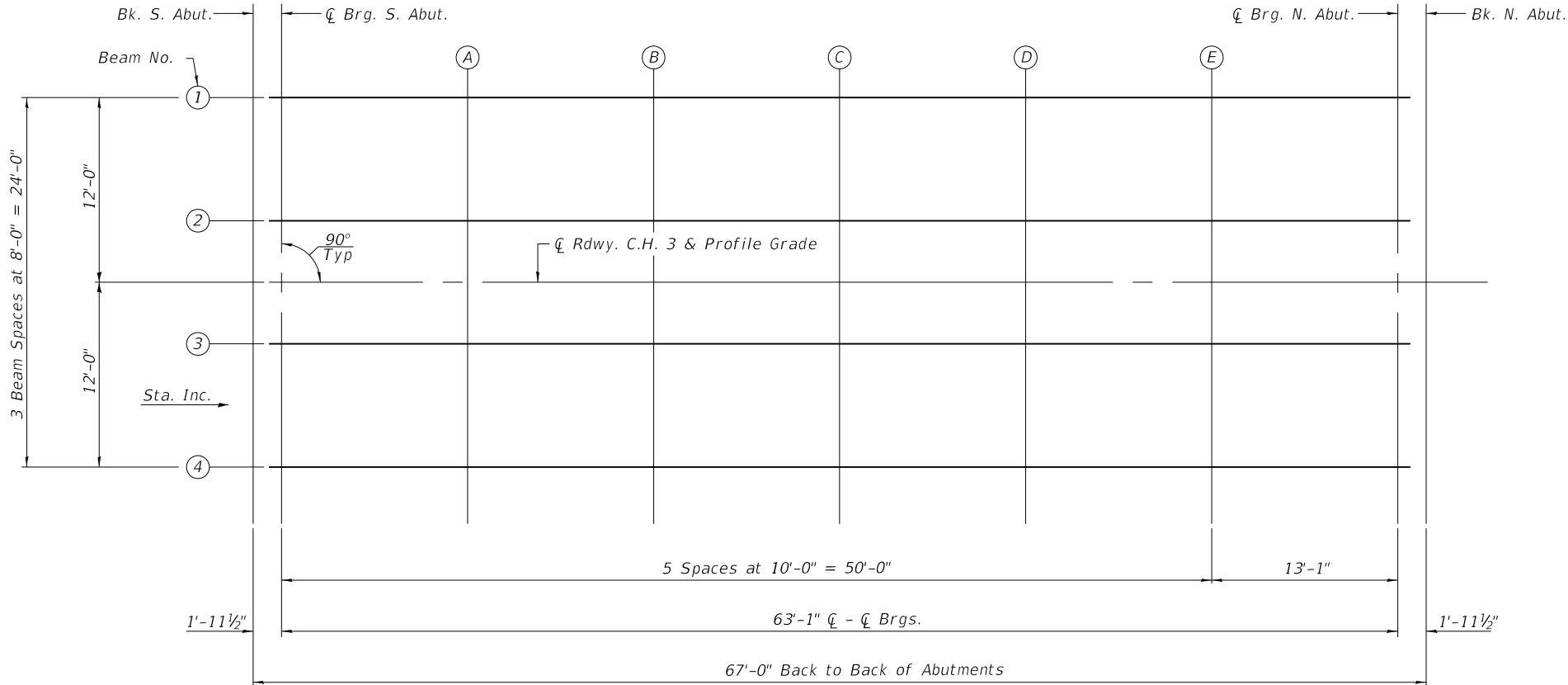
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		CHECKED	- AMS	REVISED	-
PLOT SCALE	= 1.333333 ' / in.	DRAWN	- RJP	REVISED	-
PLOT DATE	= 2/11/2025	CHECKED	- AMS	REVISED	-

HANCOCK COUNTY
HIGHWAY DEPARTMENT

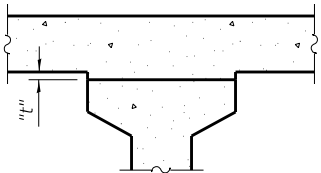
GENERAL NOTES & DETAILS
STRUCTURE NO. 034-3035

SHEET NO. 2 OF 16 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1423	22-00142-00-BR	HANCOCK	31	9
CONTRACT NO. 93836				
ILLINOIS FED. AID PROJECT				

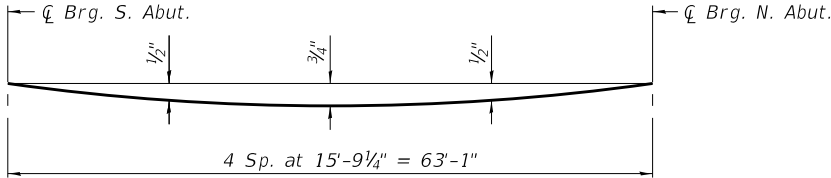


PLAN



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 below, minus slab thickness, equals the fillet heights "t" above top flanges of beams.

FILLET HEIGHTS



DEAD LOAD DEFLECTION DIAGRAM

(Includes weight of concrete only.)

Note:
The above deflections are not to be used in the field if the engineer is working from the grade elevations adjusted for dead load deflections as shown below.

BEAM 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	31+15.50	-12.00	626.97	626.97
C Brg. S. Abut.	31+17.46	-12.00	626.94	626.94
A	31+27.46	-12.00	626.78	626.81
B	31+37.46	-12.00	626.64	626.69
C	31+47.46	-12.00	626.51	626.57
D	31+57.46	-12.00	626.40	626.44
E	31+67.46	-12.00	626.30	626.33
C Brg. N. Abut.	31+80.54	-12.00	626.18	626.18
Bk. N. Abut.	31+82.50	-12.00	626.16	626.16

BEAM 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	31+15.50	-4.00	627.13	627.13
C Brg. S. Abut.	31+17.46	-4.00	627.10	627.10
A	31+27.46	-4.00	626.94	626.97
B	31+37.46	-4.00	626.80	626.85
C	31+47.46	-4.00	626.67	626.73
D	31+57.46	-4.00	626.56	626.60
E	31+67.46	-4.00	626.46	626.49
C Brg. N. Abut.	31+80.54	-4.00	626.34	626.34
Bk. N. Abut.	31+82.50	-4.00	626.32	626.32

Note:
Offsets to the left of C C.H. 3 are negative.
Offsets to the right of C C.H. 3 are positive.

C ROADWAY & PROFILE GRADE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	31+15.50	0.00	627.21	627.21
C Brg. S. Abut.	31+17.46	0.00	627.18	627.18
A	31+27.46	0.00	627.02	627.05
B	31+37.46	0.00	626.88	626.93
C	31+47.46	0.00	626.75	626.81
D	31+57.46	0.00	626.64	626.68
E	31+67.46	0.00	626.54	626.57
C Brg. N. Abut.	31+80.54	0.00	626.42	626.42
Bk. N. Abut.	31+82.50	0.00	626.40	626.40

BEAM 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	31+15.50	4.00	627.13	627.13
C Brg. S. Abut.	31+17.46	4.00	627.10	627.10
A	31+27.46	4.00	626.94	626.97
B	31+37.46	4.00	626.80	626.85
C	31+47.46	4.00	626.67	626.73
D	31+57.46	4.00	626.56	626.60
E	31+67.46	4.00	626.46	626.49
C Brg. N. Abut.	31+80.54	4.00	626.34	626.34
Bk. N. Abut.	31+82.50	4.00	626.32	626.32

BEAM 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted For Dead Load Deflection
Bk. S. Abut.	31+15.50	12.00	626.97	626.97
C Brg. S. Abut.	31+17.46	12.00	626.94	626.94
A	31+27.46	12.00	626.78	626.81
B	31+37.46	12.00	626.64	626.69
C	31+47.46	12.00	626.51	626.57
D	31+57.46	12.00	626.40	626.44
E	31+67.46	12.00	626.30	626.33
C Brg. N. Abut.	31+80.54	12.00	626.18	626.18
Bk. N. Abut.	31+82.50	12.00	626.16	626.16

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WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	30+86.50	-15.00	627.43
A1	30+96.50	-15.00	627.24
A2	31+06.50	-15.00	627.06
N. End South Appr. Slab	31+16.50	-15.00	626.89

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	30+86.50	-11.00	627.51
A1	30+96.50	-11.00	627.32
A2	31+06.50	-11.00	627.14
N. End South Appr. Slab	31+16.50	-11.00	626.97

℄ ROADWAY & PROFILE GRADE

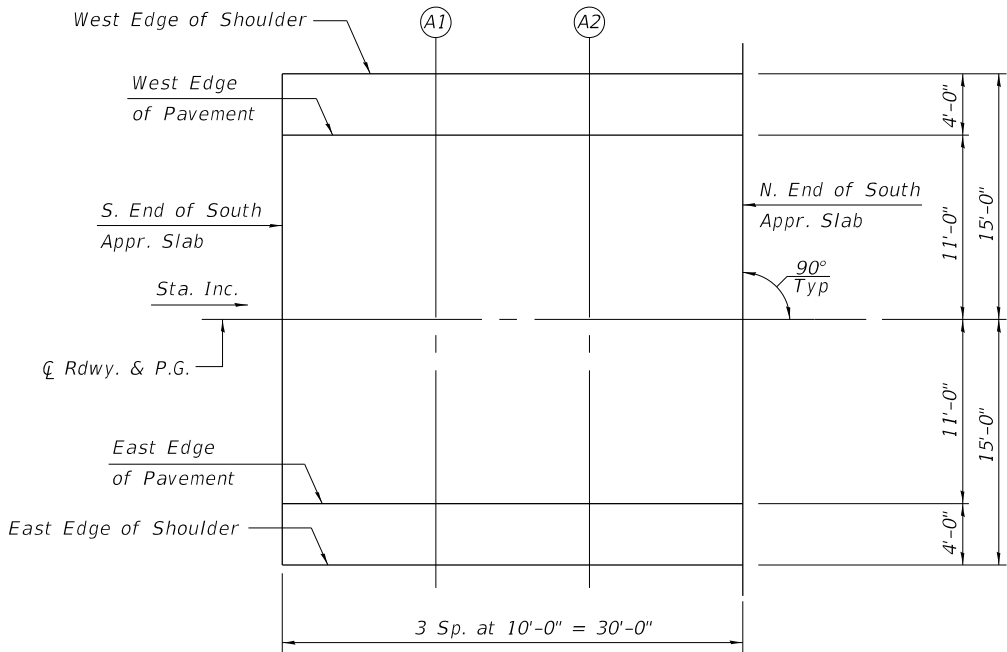
Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	30+86.50	0.00	627.73
A1	30+96.50	0.00	627.54
A2	31+06.50	0.00	627.36
N. End South Appr. Slab	31+16.50	0.00	627.19

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	30+86.50	11.00	627.51
A1	30+96.50	11.00	627.32
A2	31+06.50	11.00	627.14
N. End South Appr. Slab	31+16.50	11.00	626.97

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End South Appr. Slab	30+86.50	15.00	627.43
A1	30+96.50	15.00	627.24
A2	31+06.50	15.00	627.06
N. End South Appr. Slab	31+16.50	15.00	626.89



PLAN



Note:
Offsets to the left of ℄ C.H. 3 are negative.
Offsets to the right of ℄ C.H. 3 are positive.

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WEST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	31+81.50	-15.00	626.11
A3	31+91.50	-15.00	626.04
A4	32+01.50	-15.00	625.98
N. End North Appr. Slab	32+11.50	-15.00	625.93

WEST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	31+81.50	-11.00	626.19
A3	31+91.50	-11.00	626.12
A4	32+01.50	-11.00	626.06
N. End North Appr. Slab	32+11.50	-11.00	626.01

℄ ROADWAY & PROFILE GRADE

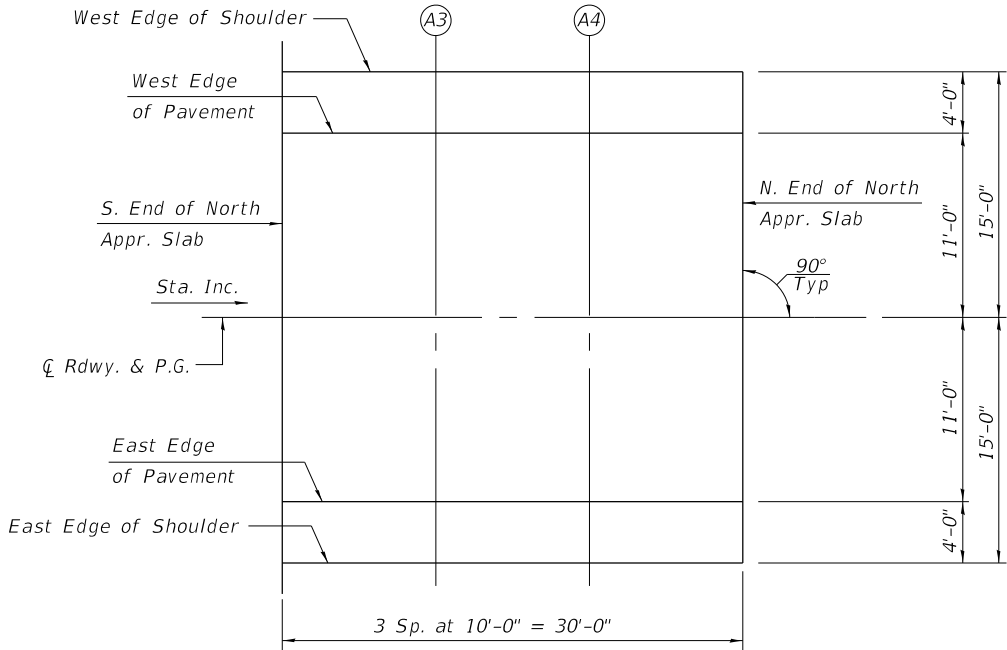
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S. End North Appr. Slab	31+81.50	0.00	626.41
A3	31+91.50	0.00	626.34
A4	32+01.50	0.00	626.28
N. End North Appr. Slab	32+11.50	0.00	626.23

EAST EDGE OF PAVEMENT

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	31+81.50	11.00	626.19
A3	31+91.50	11.00	626.12
A4	32+01.50	11.00	626.06
N. End North Appr. Slab	32+11.50	11.00	626.01

EAST EDGE OF SHOULDER

Location	Station	Offset	Theoretical Grade Elevations
S. End North Appr. Slab	31+81.50	15.00	626.11
A3	31+91.50	15.00	626.04
A4	32+01.50	15.00	625.98
N. End North Appr. Slab	32+11.50	15.00	625.93

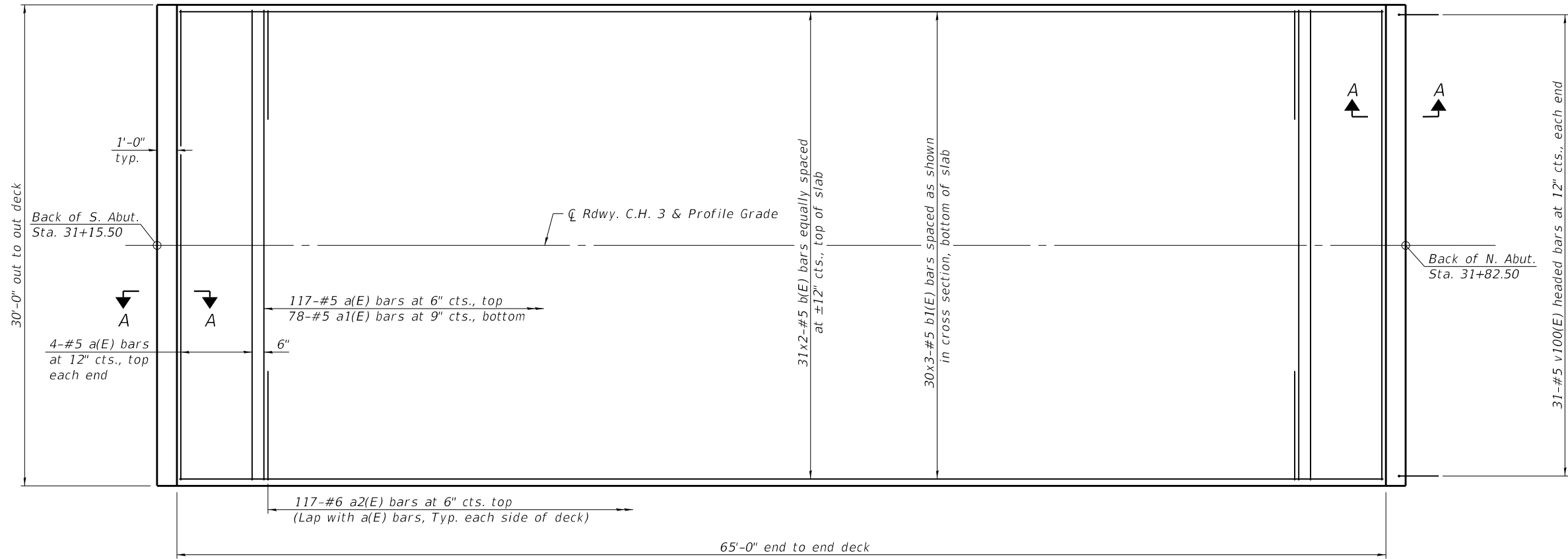


PLAN



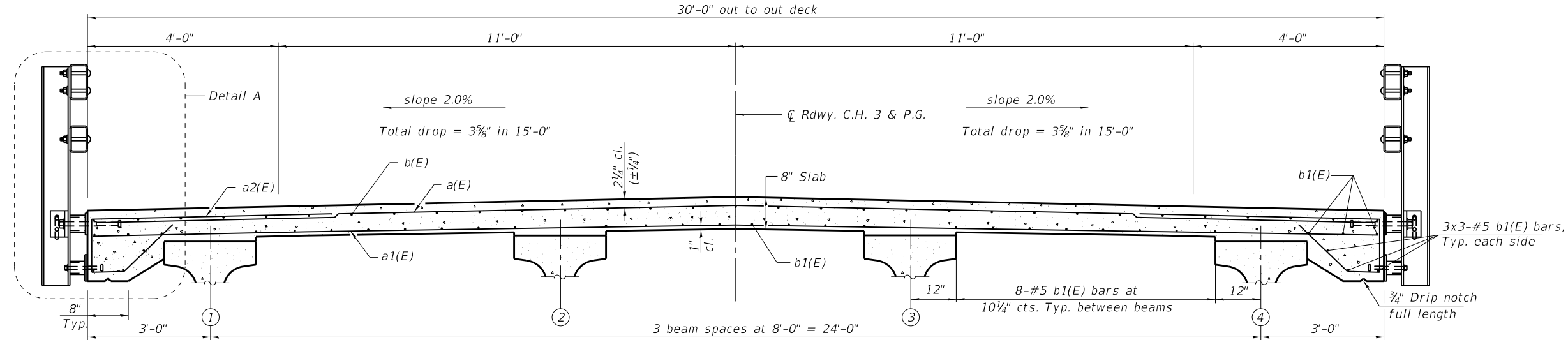
Note:
Offsets to the left of ℄ C.H. 3 are negative.
Offsets to the right of ℄ C.H. 3 are positive.

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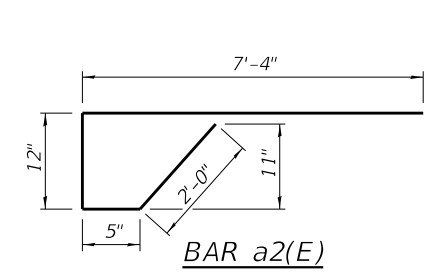


MINIMUM BAR LAP
#5 bar = 3'-6"

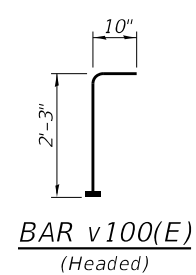
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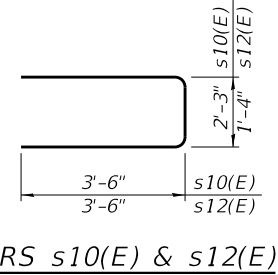
CROSS SECTION
(Looking North)



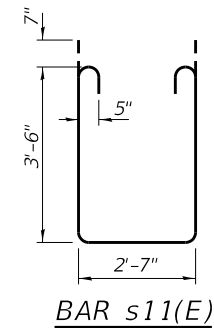
BAR a2(E)



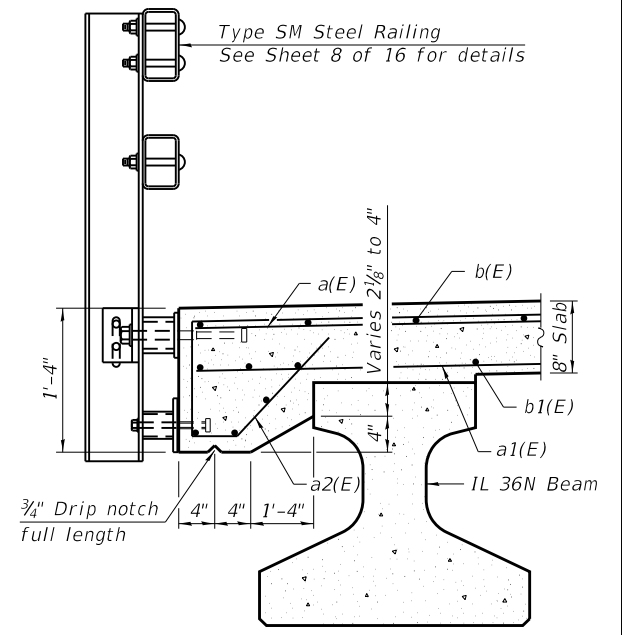
BAR v100(E)
(Headed)



BARS s10(E) & s12(E)



BAR s11(E)



DETAIL A

SUPERSTRUCTURE
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	125	#5	29'-9"	—
a1(E)	78	#5	29'-9"	—
a2(E)	234	#6	10'-9"	┐
b(E)	62	#5	34'-2"	—
b1(E)	108	#5	23'-11"	—
m10(E)	8	#6	29'-8"	—
m11(E)	12	#6	6'-8"	—
m12(E)	8	#6	2'-2"	—
m13(E)	6	#6	4'-6"	—
m14(E)	4	#6	1'-2"	—
m15(E)	16	#5	4'-0"	—
s10(E)	44	#5	9'-3"	┐
s11(E)	44	#5	10'-9"	┐
s12(E)	32	#5	8'-4"	┐
v100(E)	62	#5	3'-1"	┐
Reinforcement Bars, Epoxy Coated			Pound	16,990
Concrete Superstructure			Cu. Yd.	83.9
Bridge Deck Grooving			Sq. Yd.	202
Protective Coat			Sq. Yd.	236

Notes:
For Section A-A and Diaphragm Details, see Sheet 7 of 16.
See Sheet 8 of 16 for Railing Details.
Bars indicated thus 31x2-#5 etc. indicates 31 lines of bars with 2 lengths per line.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.

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

USER NAME	= r.jp	DESIGNED	- RJP	REVISED	-
PLOT SCALE	= 1.333333 ' / in.	CHECKED	- AMS	REVISED	-
PLOT DATE	= 2/11/2025	DRAWN	- RJP	REVISED	-
		CHECKED	- AMS	REVISED	-

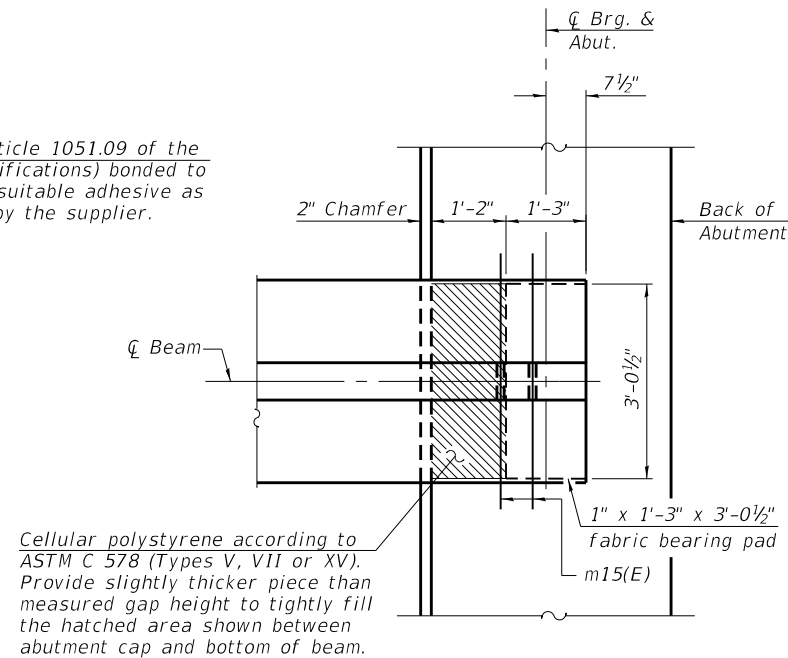
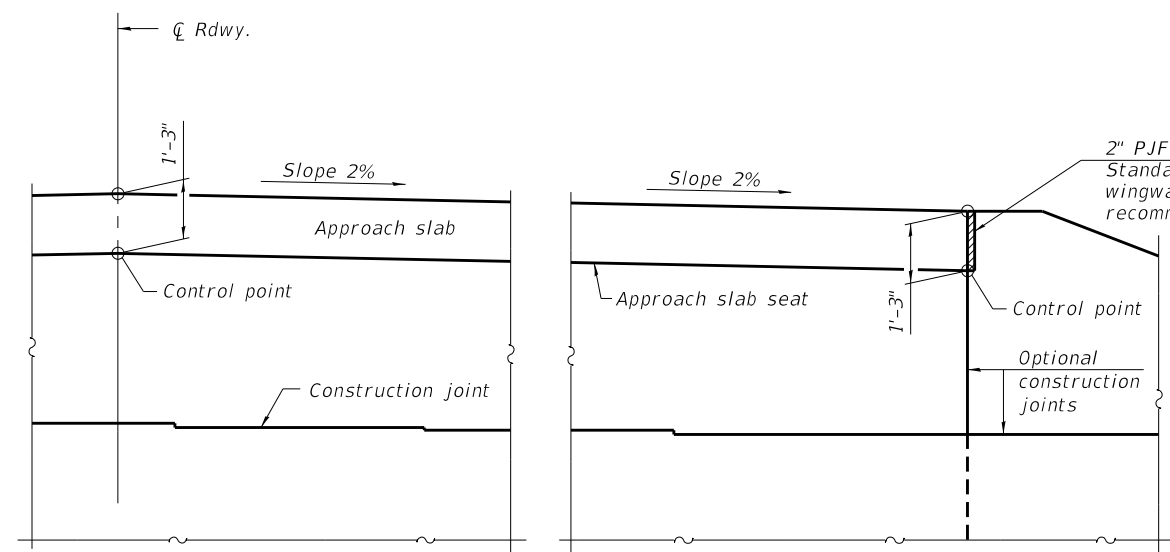
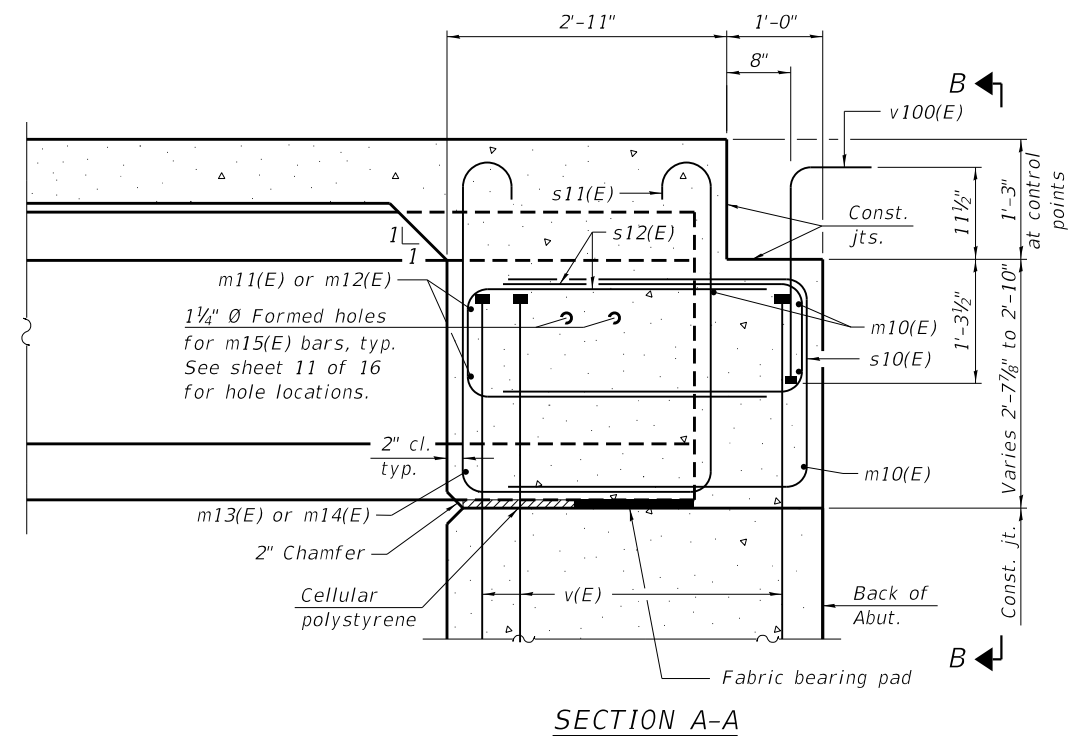
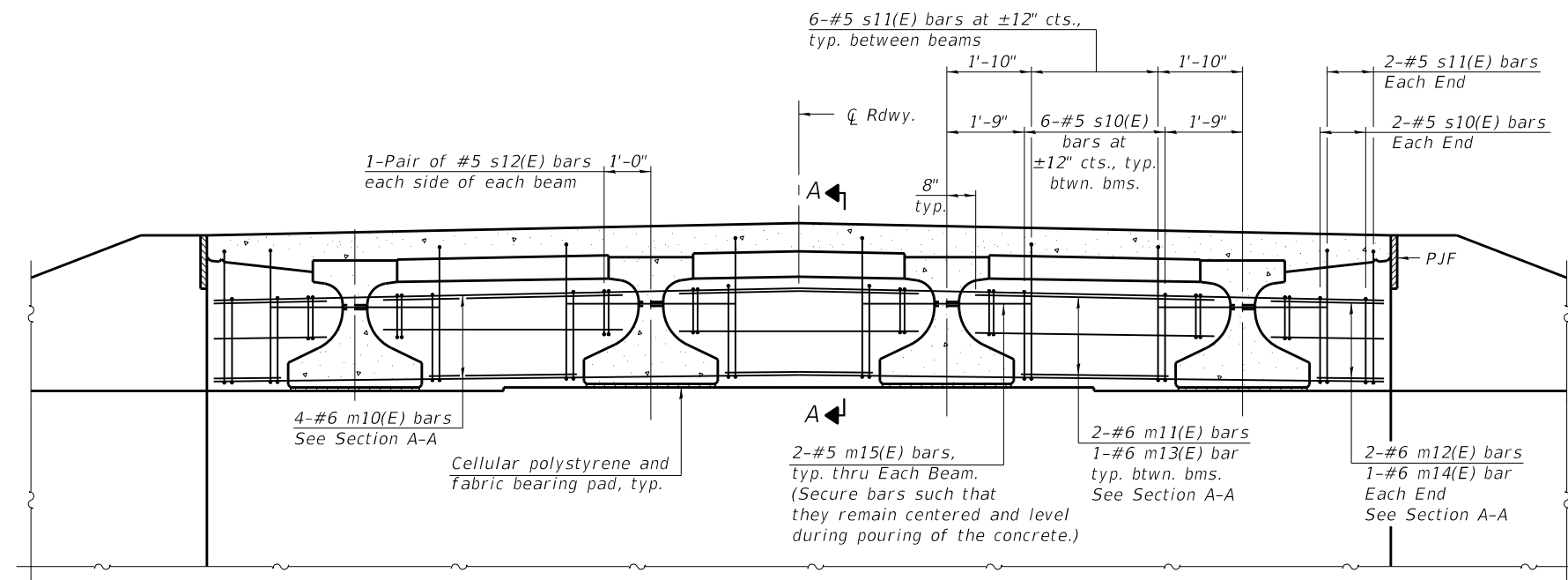
HANCOCK COUNTY
HIGHWAY DEPARTMENT

SUPERSTRUCTURE
STRUCTURE NO. 034-3035

SHEET NO. 6 OF 16 SHEETS

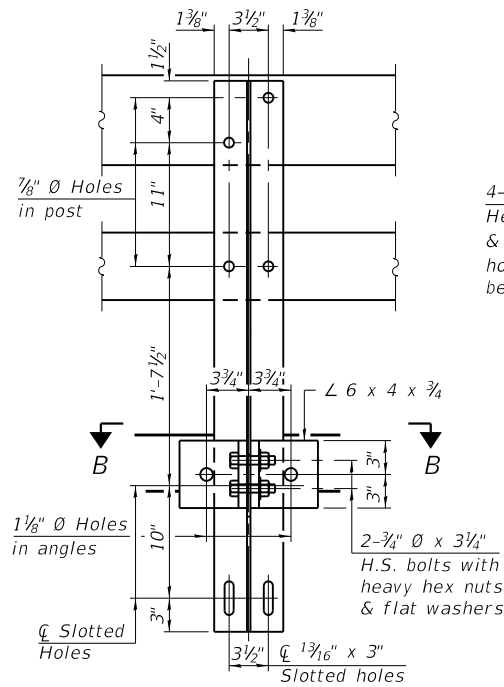
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1423	22-00142-00-BR	HANCOCK	31	13
CONTRACT NO. 93836				
ILLINOIS FED. AID PROJECT				

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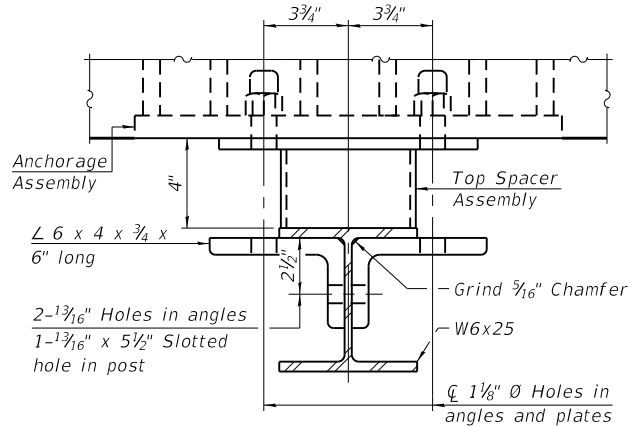


Notes:
 See sheet 6 of 16 for superstructure details and Bill of Material.
 The approach slab seat shall have a constant slope determined from the control points shown.
 Cost of cellular polystyrene is included with Concrete Superstructure.
 Beams shall be braced for stability during erection and remain braced until deck is poured and cured.
 For v(E) bars, see Sheets 13 and 14 of 16.

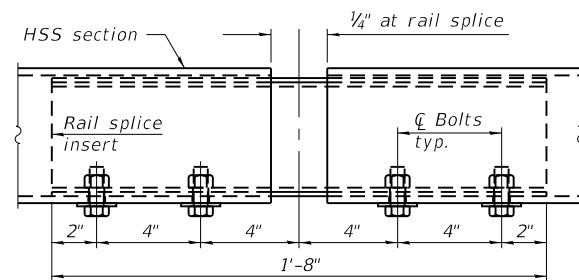
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SECTION A-A



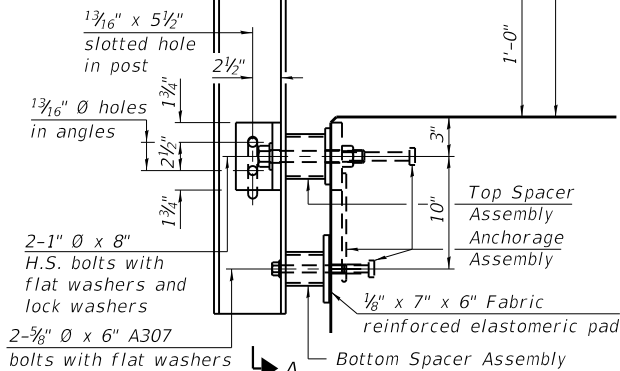
SECTION B-B



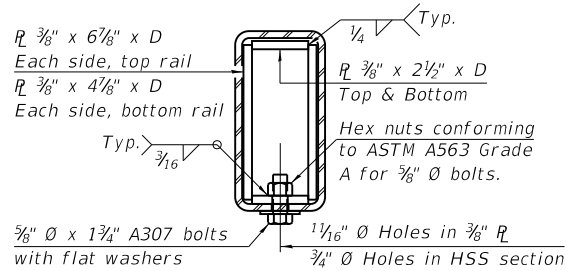
RAILING CRITERIA

MASH 2016 Test Level	2
Railing Weight (plf)	90
Min f'c (psi)	5,000
Max Post Spacing	6'-3"

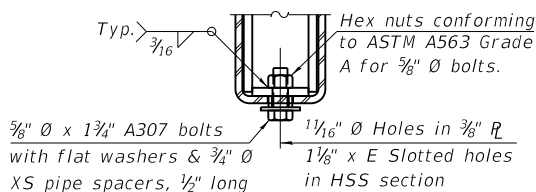
4-3/4" $\varnothing$ x 6" Round Head Bolts with locknuts & flat washers. 7/8" $\varnothing$ holes in HSS tubing may be drilled in the field.



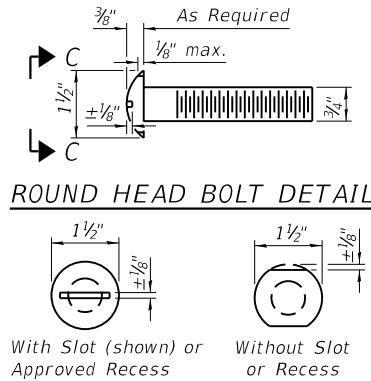
SECTION AT RAIL POST



SECTION AT RAIL SPLICE

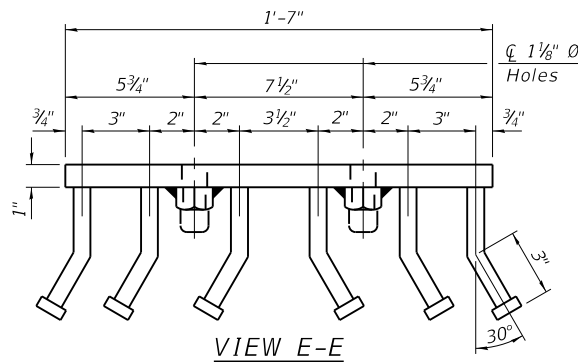


RAIL SPLICE CONNECTION AT EXPANSION JT.

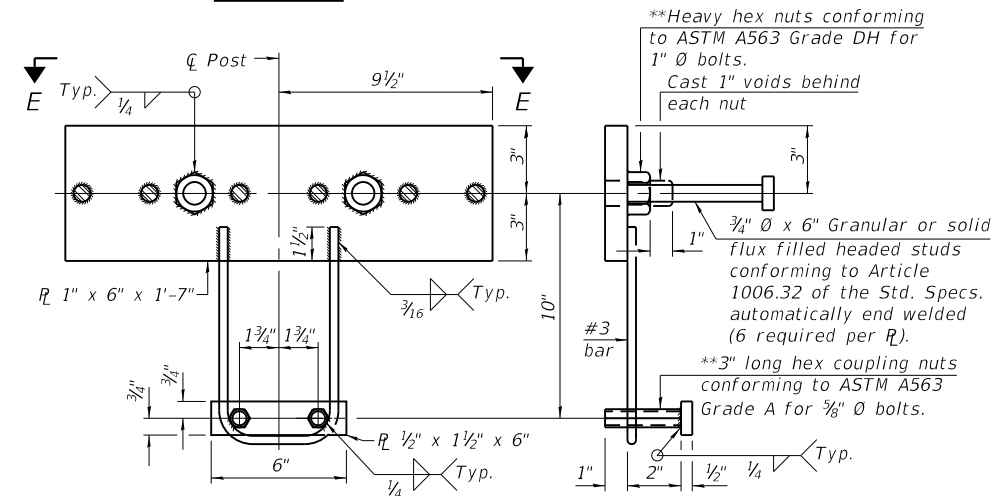


VIEW C-C

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

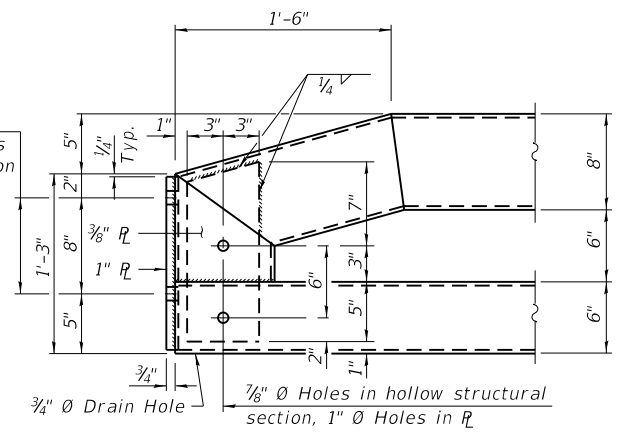


VIEW E-E

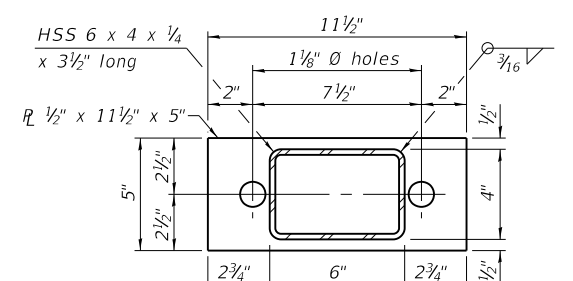
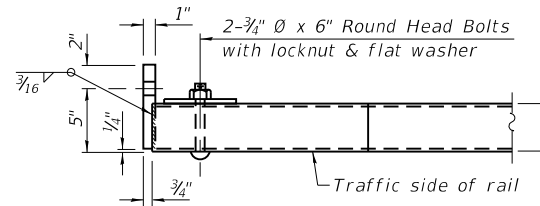


ANCHORAGE ASSEMBLY

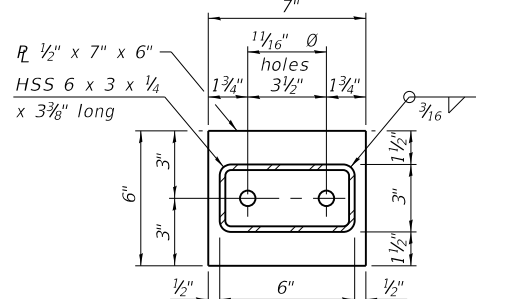
** Threaded areas shall be plugged or blocked off during casting of concrete.



END OF RAIL DETAILS



TOP SPACER ASSEMBLY



BOTTOM SPACER ASSEMBLY

BILL OF MATERIAL

Item	Unit	Quantity
Steel Railing, Type SM	Foot	134

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STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

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PLOT SCALE	= 1:333333 ' / in.
PLOT DATE	= 2/11/2025

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DRAWN	- RJP
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REVISED	-
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REVISED	-

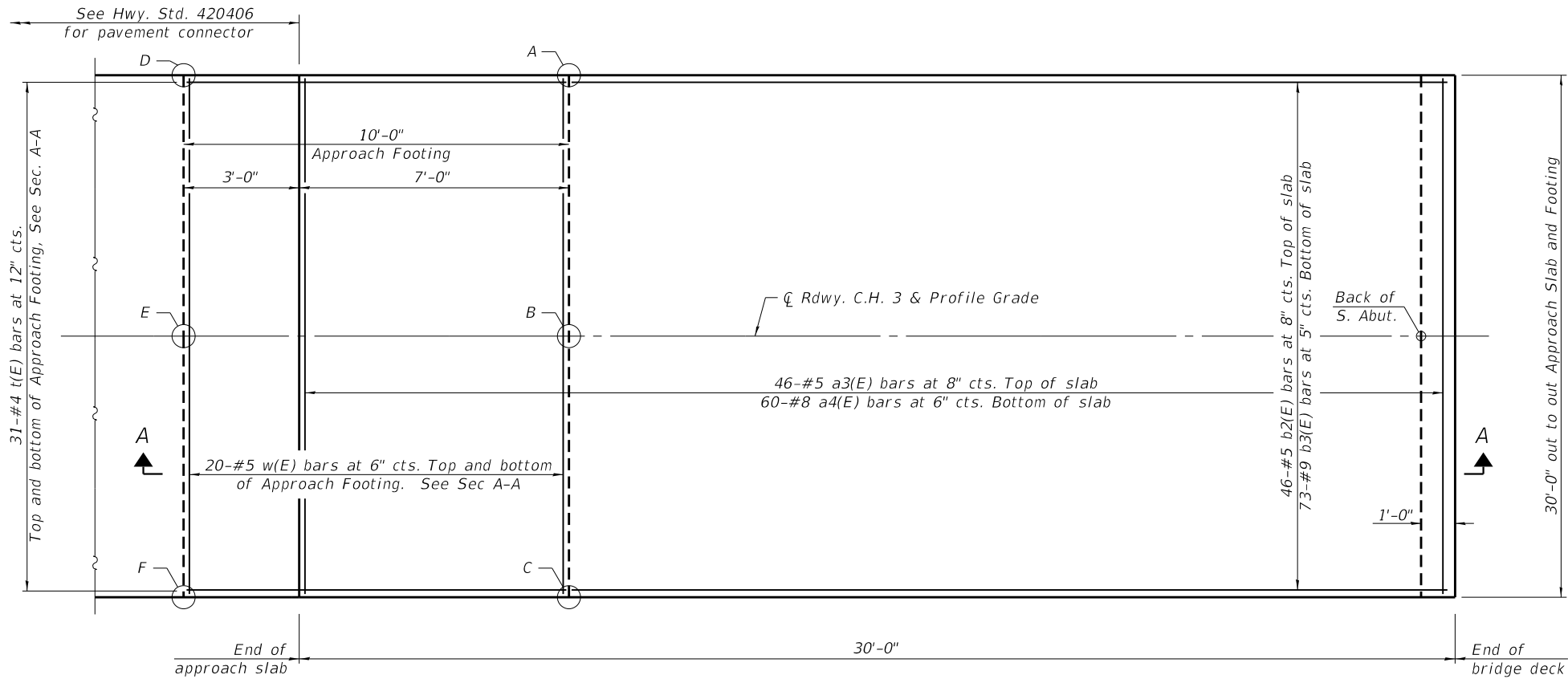
HANCOCK COUNTY
HIGHWAY DEPARTMENT

STEEL RAILING, TYPE SM
STRUCTURE NO. 034-3035

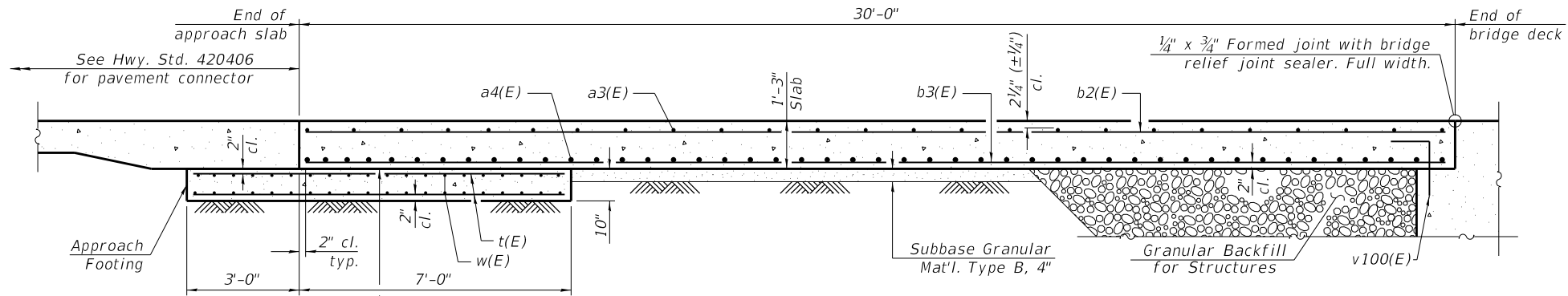
SHEET NO. 8 OF 16 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 93836				
ILLINOIS FED. AID PROJECT				

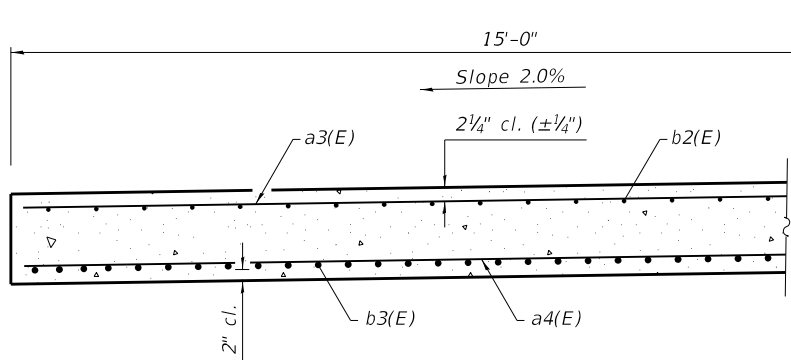
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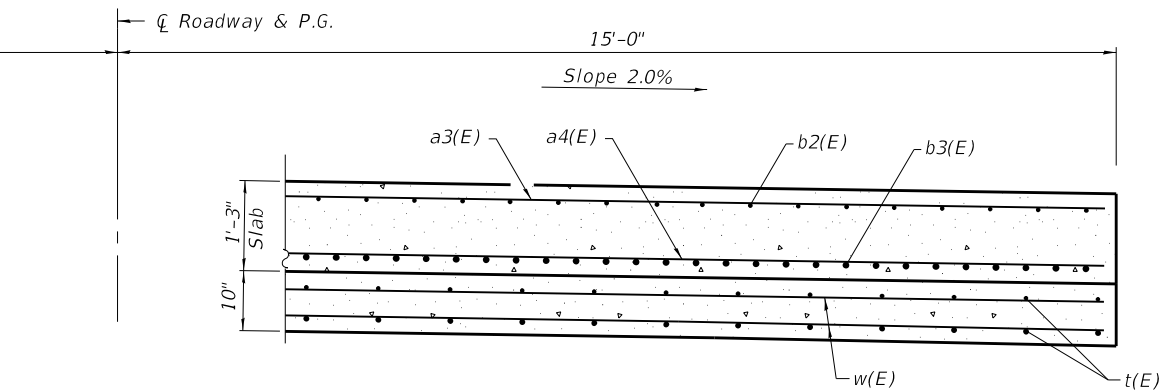
PLAN
(South Approach shown, North Abutment Mirrored)



SECTION A-A



NEAR ABUTMENT



CROSS SECTION
(Looking North)

AT APPROACH FOOTING

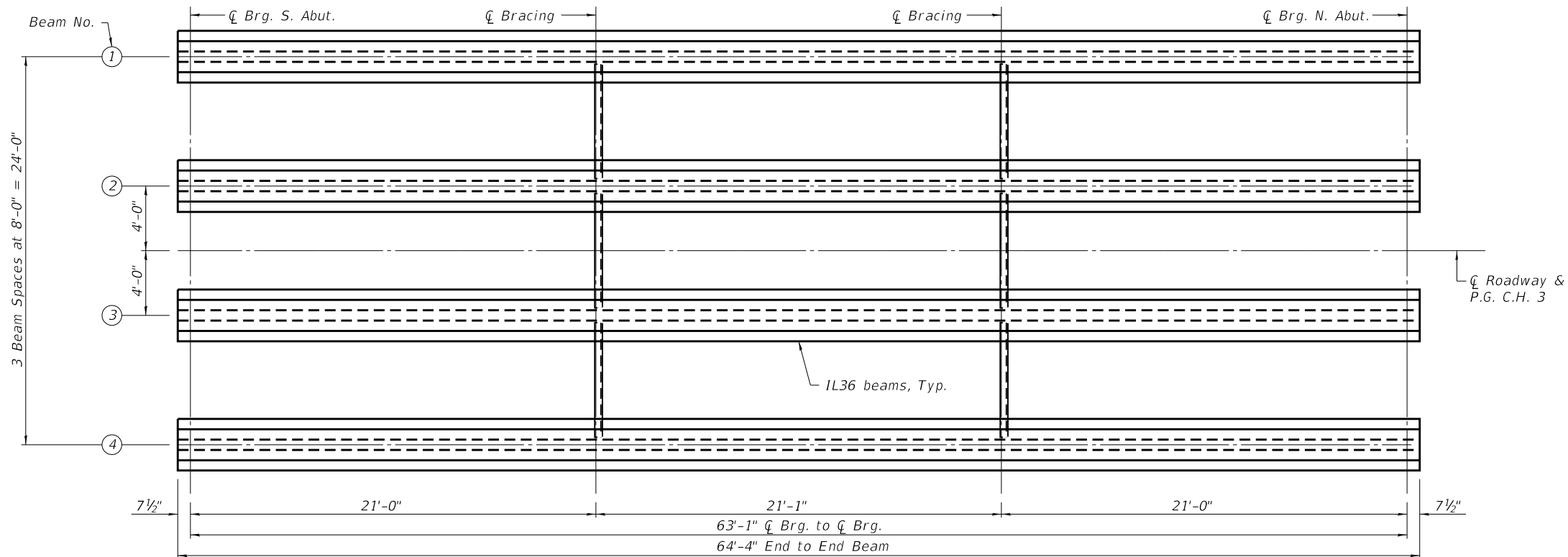
**TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING**

Point	South Approach		North Approach	
	Top	Bottom	Top	Bottom
A	626.05	625.22	624.71	623.88
B	626.35	625.52	625.01	624.18
C	626.05	625.22	624.71	623.88
D	626.24	625.41	624.67	623.84
E	626.54	625.71	624.97	624.14
F	626.24	625.41	624.67	623.84

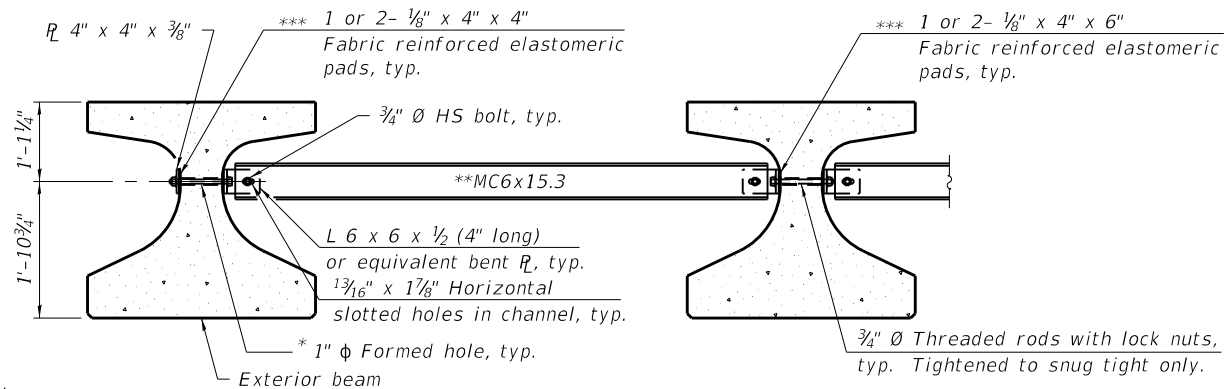
**TWO APPROACHES
BILL OF MATERIAL**

Bar	No.	Size	Length	Shape
a3(E)	92	#5	29'-8"	—
a4(E)	120	#8	29'-8"	—
b2(E)	92	#5	29'-8"	—
b3(E)	146	#9	29'-8"	—
t(E)	124	#4	9'-8"	—
w(E)	80	#5	29'-8"	—
Bridge Deck Grooving			Sq. Yd.	187
Protective Coat			Sq. Yd.	200
Concrete Superstructure (Approach Slab)			Cu. Yd.	83.4
Concrete Structures			Cu. Yd.	18.6
Reinforcement Bars, Epoxy Coated			Pound	33,210

Notes:
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
Approach footing concrete shall be paid for as Concrete Structures.
The approach footing maximum applied service bearing pressure (Q_{max}) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 16.
For v100(E) bar detail, see sheet 6 of 16.



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.

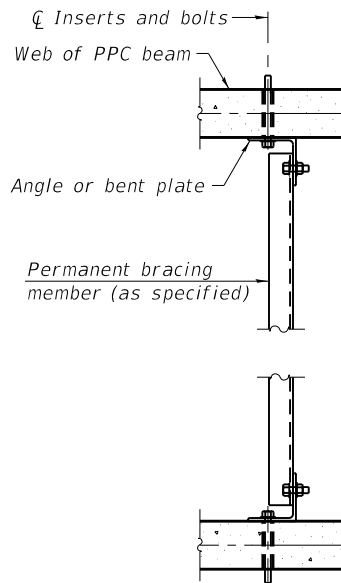
Bracing shall be installed as beams are erected and tightened as soon as possible during erection.

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.



I: Non-composite moment of inertia of beam section (in.⁴).
I': Composite moment of inertia of beam section (in.⁴).
Sb: Non-composite section modulus for the bottom fiber of the prestressed beam (in.³).
Sb': Composite section modulus for the bottom fiber of the prestressed beam (in.³).
St: Non-composite section modulus for the top fiber of the prestressed beam (in.³).
St': Composite section modulus for the top fiber of the prestressed beam (in.³).
DC1: Un-factored non-composite dead load (kips/ft.).
MDC1: Un-factored moment due to non-composite dead load (kip-ft.).
DC2: Un-factored long-term composite (superimposed excluding future wearing surface) dead load (kips/ft.).
MDC2: Un-factored moment due to long-term composite (superimposed excluding future wearing surface) dead load (kip-ft.).
DW: Un-factored long-term composite (superimposed future wearing surface only) dead load (kips/ft.).
MDW: Un-factored moment due to long-term composite (superimposed future wearing surface only) dead load (kip-ft.).
M_L + IM: Un-factored live load moment plus dynamic load allowance (impact) (kip-ft.).

INTERIOR BEAM MOMENT TABLE		
0.5 Span 1		
I	(in ⁴)	100,433
I'	(in ⁴)	307,753
Sb	(in ³)	6,832
Sb'	(in ³)	11,932
St	(in ³)	4,715
St'	(in ³)	30,147
DC1	(k/ft)	1.678
MDC1	(k)	835
DC2	(k/ft)	0.045
MDC2	(k)	15
DW	(k/ft)	0.400
MDW	(k)	200
M _L + IM	(k)	1,038

INTERIOR BEAM REACTION TABLE		
Abutment		
RDC1	(k)	53
RDC2	(k)	2
RDW	(k)	13
R _L + IM	(k)	83
RTotal	(k)	151

PERMANENT BRACING DETAILS FOR IL36 BEAMS

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

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		CHECKED	- AMS	REVISED	-
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HANCOCK COUNTY
HIGHWAY DEPARTMENT

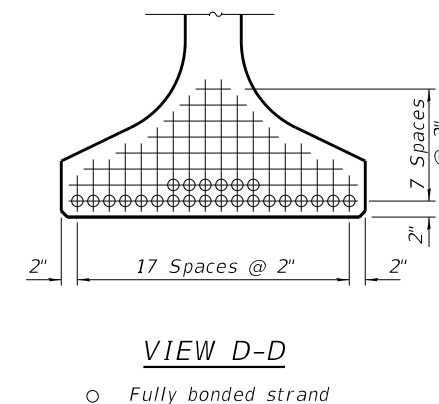
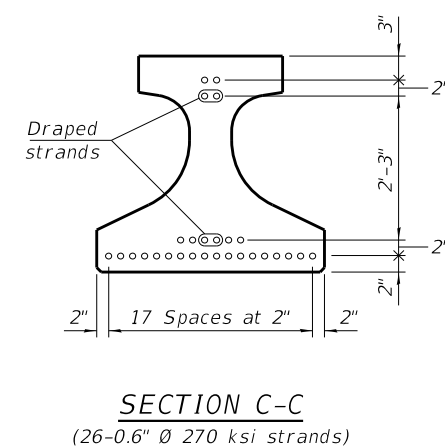
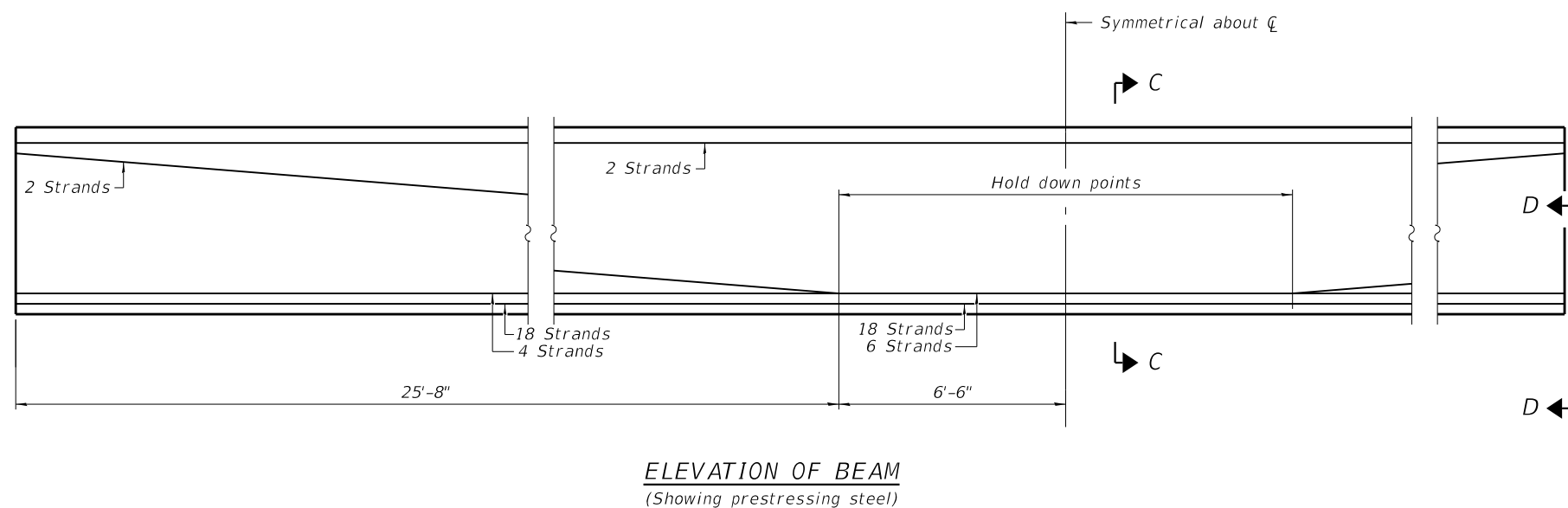
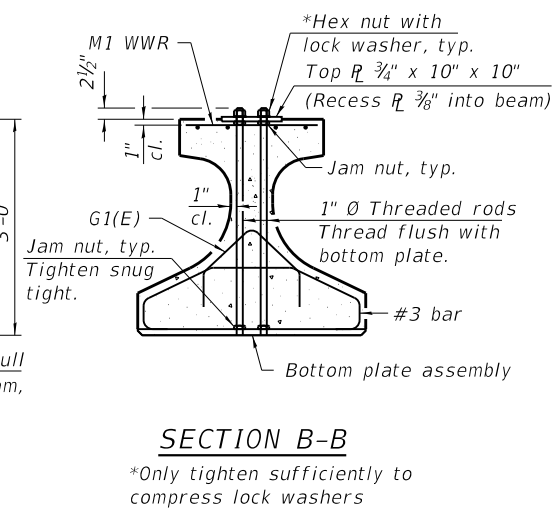
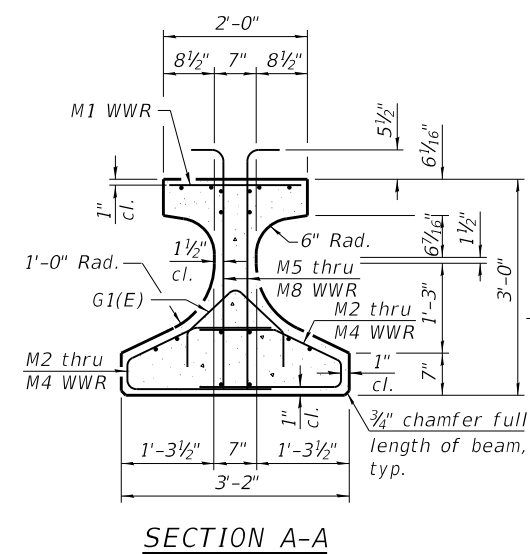
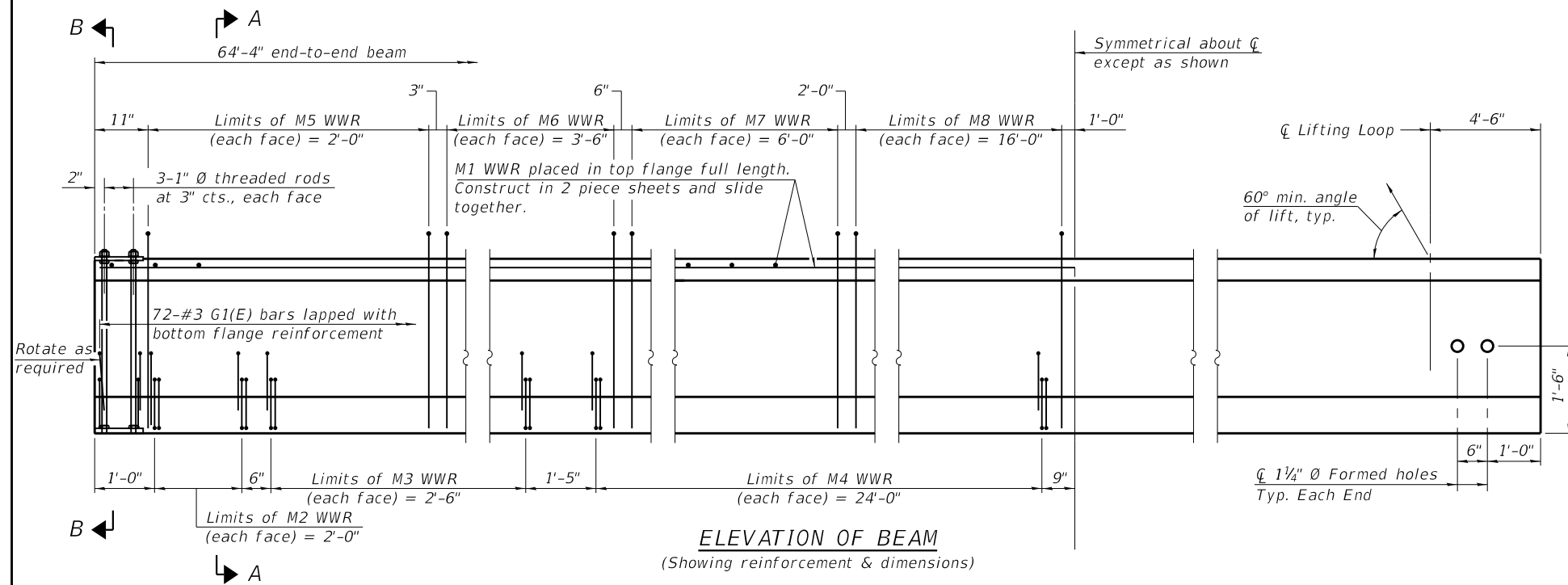
FRAMING PLAN
STRUCTURE NO. 034-3035

SHEET NO. 10 OF 16 SHEETS

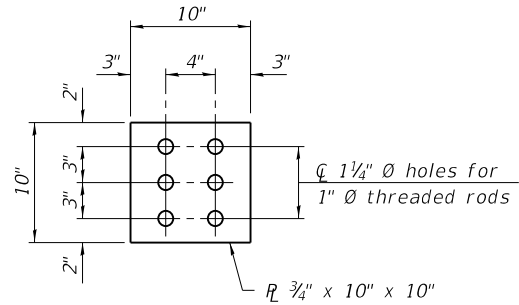
F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1423	22-00142-00-BR	HANCOCK	31	17
CONTRACT NO. 93836				
ILLINOIS FED. AID PROJECT				

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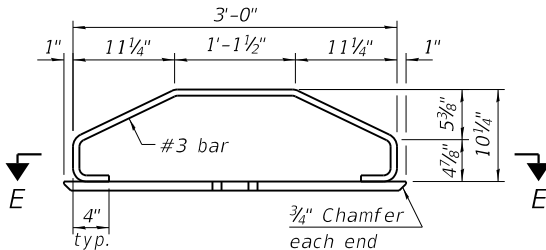
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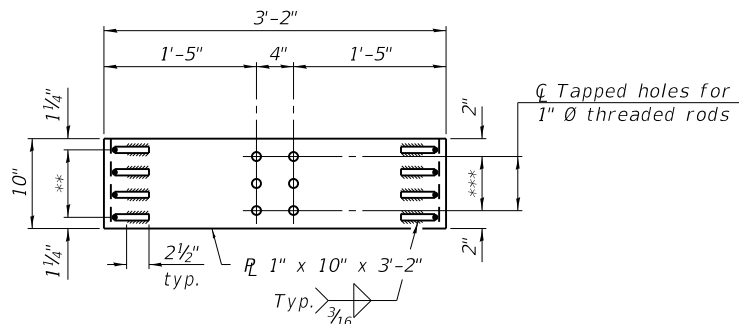
Note:
See sheet 12 of 16 for additional
details and Bill of Material.



PLAN - TOP PLATE



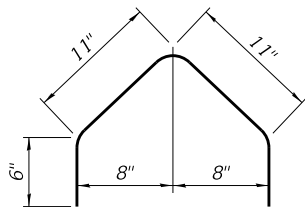
ELEVATION - BOTTOM
PLATE ASSEMBLY



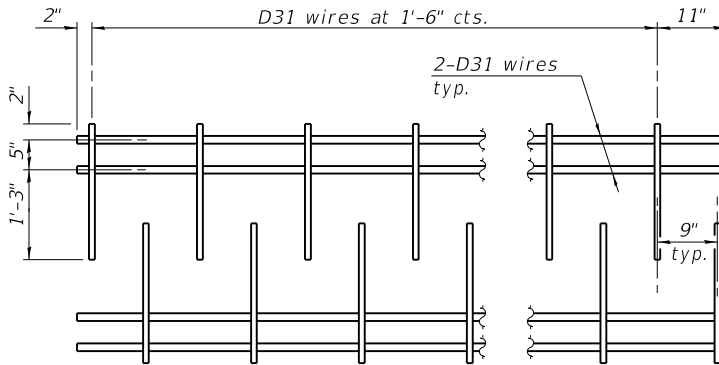
SECTION E-E

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

*** 2 Spaces at 3" = 6"

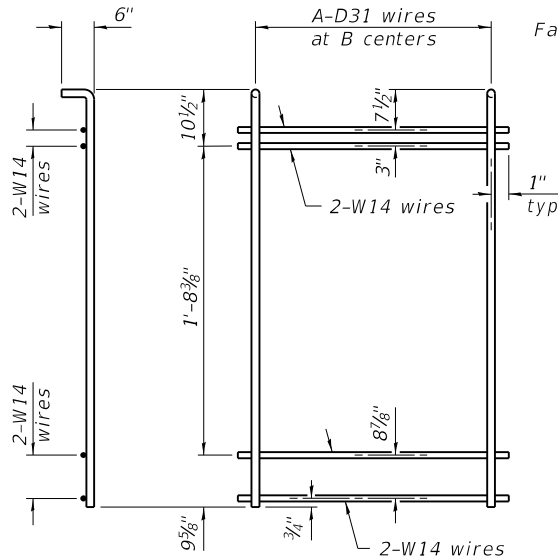


BAR G1(E)



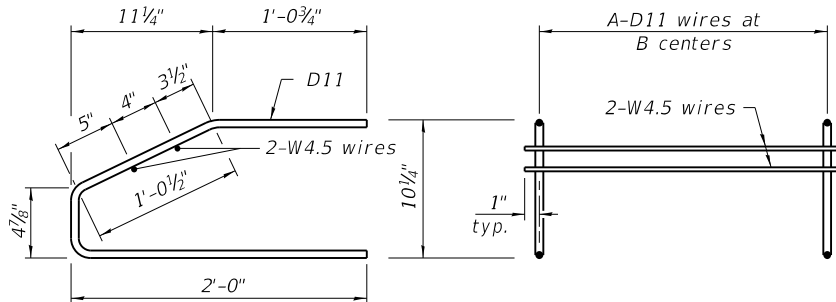
M1 WWR DETAIL

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 M8 WWR DETAIL

(See Table of Dimensions)



M2 THRU M4 WWR DETAIL

(See Table of Dimensions)

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.

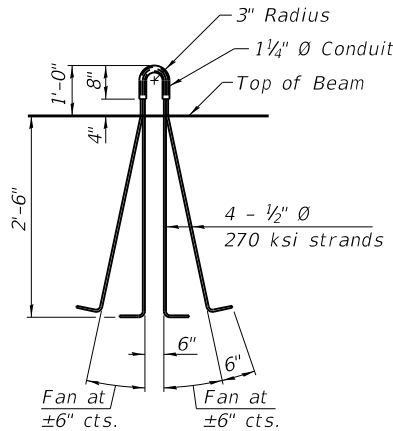
Welded Wire Reinforcement (WWR) shall conform to ASTM A884 with a Class A, Type 1 epoxy coating or ASTM A1060, Table 3 galvanized coating.

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.)

SPAN 1

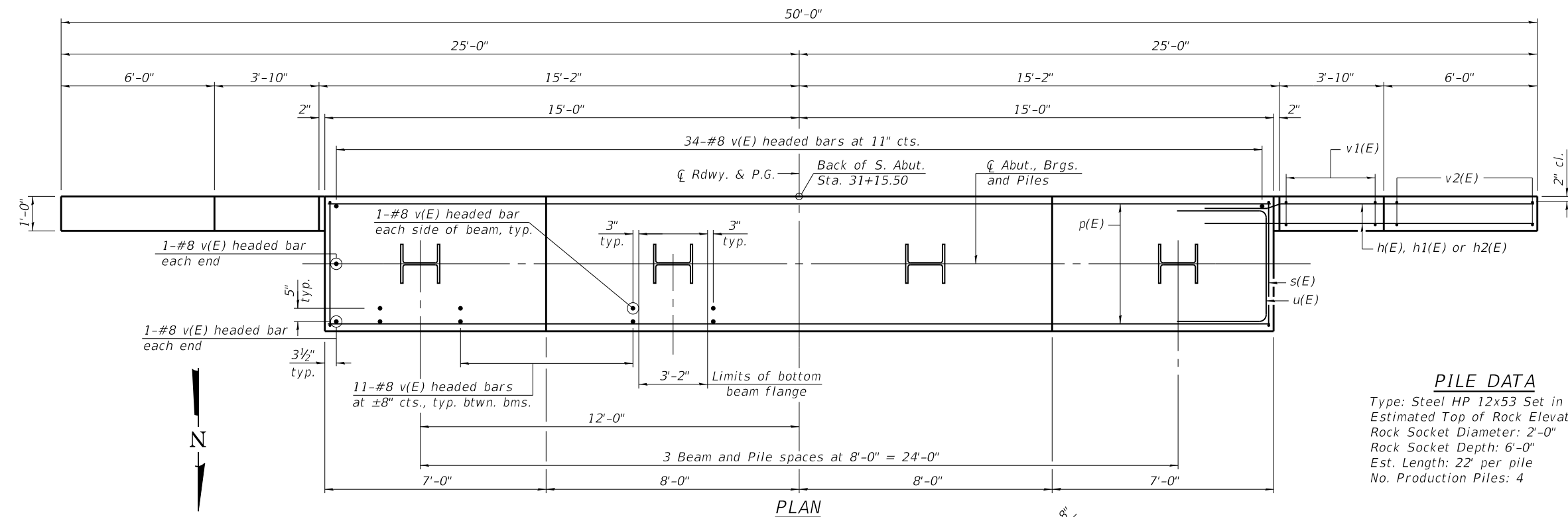
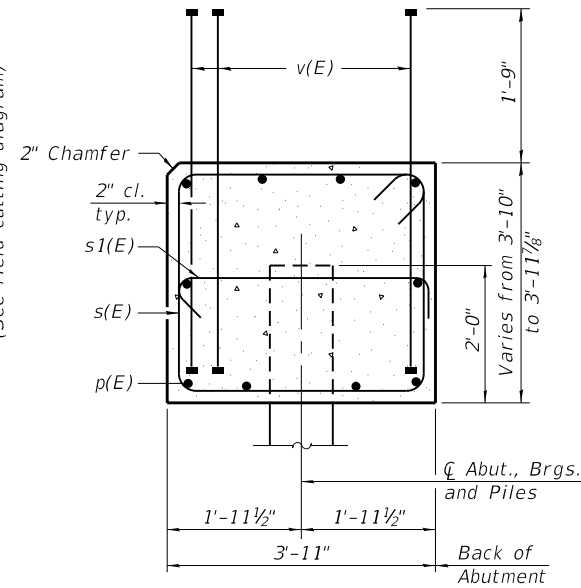
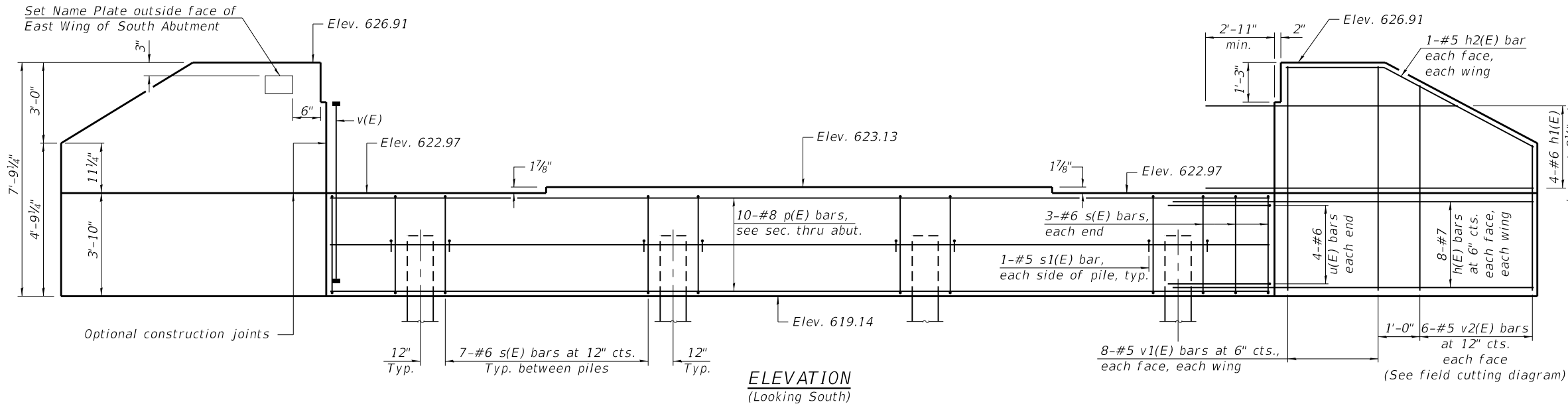
WWR	A	B
M2	9	3"
M3	6	6"
M4	16	1'-6"
M5	9	3"
M6	8	6"
M7	7	1'-0"
M8	9	2'-0"



LIFTING LOOP DETAIL

BILL OF MATERIAL

Item	Unit	Total
Furnishing and Erecting Precast Prestressed Concrete Beams, IL36N	Ft.	257

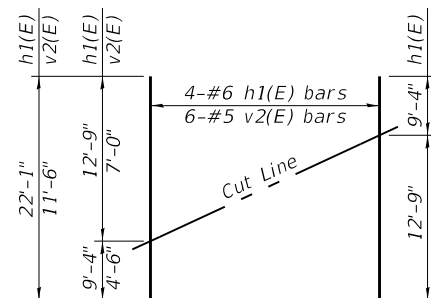


PILE DATA
Type: Steel HP 12x53 Set in Rock
Estimated Top of Rock Elevation: ±605.0
Rock Socket Diameter: 2'-0"
Rock Socket Depth: 6'-0"
Est. Length: 22' per pile
No. Production Piles: 4

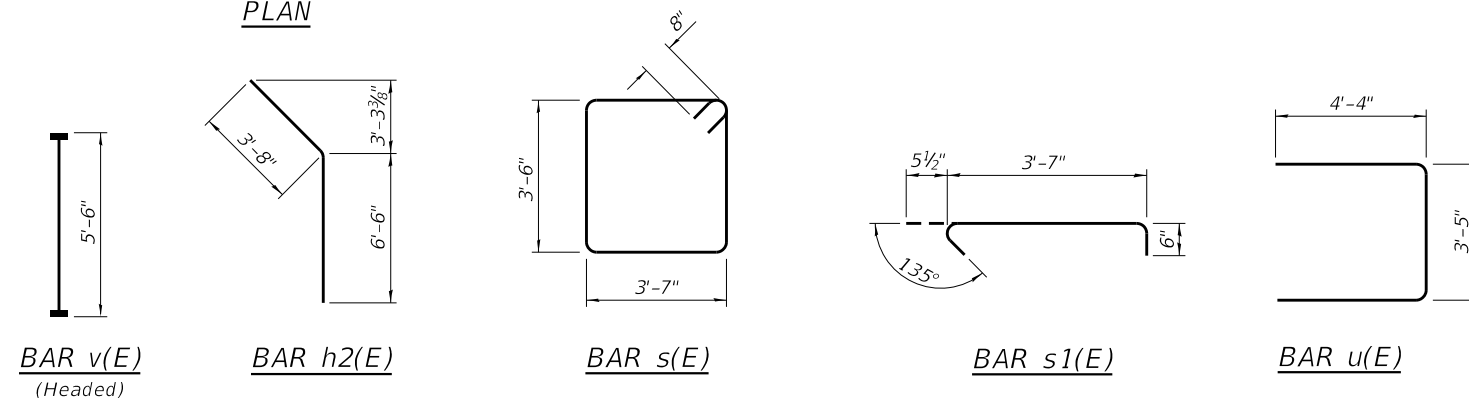
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	32	#7	13'-10"	
h1(E)	8	#6	22'-1"	
h2(E)	4	#5	10'-2"	
p(E)	10	#8	29'-8"	
s(E)	27	#6	15'-6"	
s1(E)	8	#5	4'-7"	
u(E)	8	#6	12'-1"	
v(E)	79	#8	5'-6"	
v1(E)	32	#5	7'-5"	
v2(E)	12	#5	11'-6"	
Structure Excavation			Cu. Yd.	99
Concrete Structures			Cu. Yd.	22.1
Reinforcement Bars, Epoxy Coated			Pound	4,370
Furnishing Steel Piles HP 12x53			Foot	88
Drilling and Setting Piles (In Soil)			Cu. Ft.	178
Drilling and Setting Piles (In Rock)			Cu. Ft.	75
Granular Backfill for Structures			Cu. Yd.	55
Geocomposite Wall Drain			Sq. Yd.	32
Pipe Underdrains for Structures 4"			Foot	68
Name Plates			Each	1

Notes:
Pour steps monolithically with cap.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
For details of piles see sheet 15 of 16.



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



FILE NAME: P:\Quincy\22files\220346\18.Transportation\Structure Plans\Final Bridge Plans.sgn

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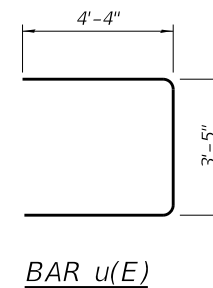
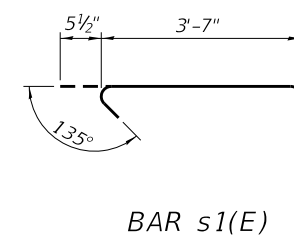
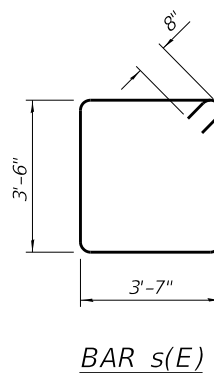
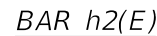
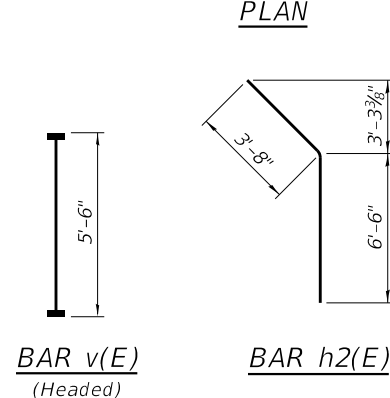
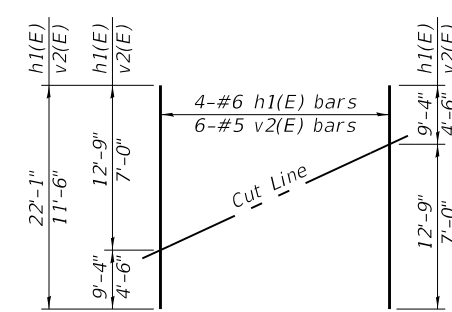
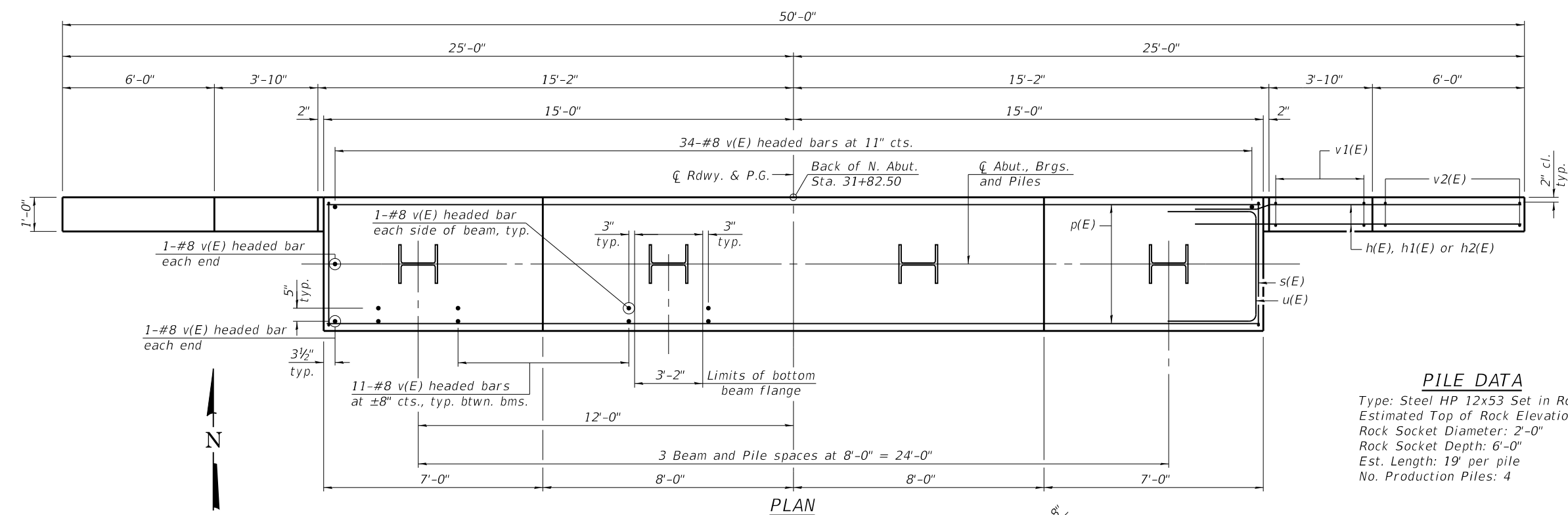
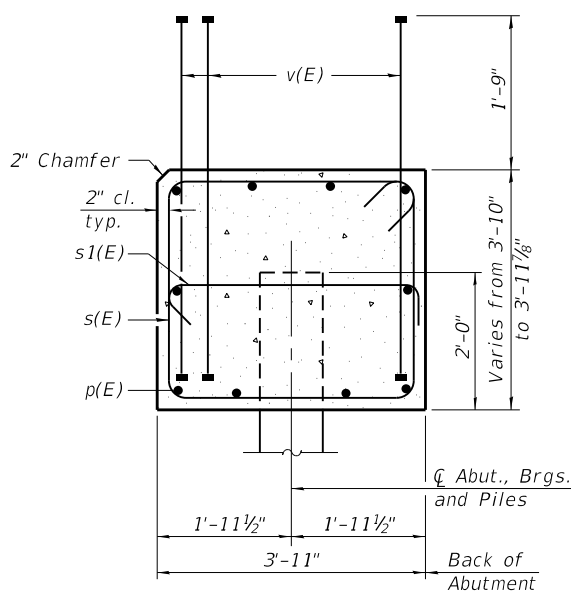
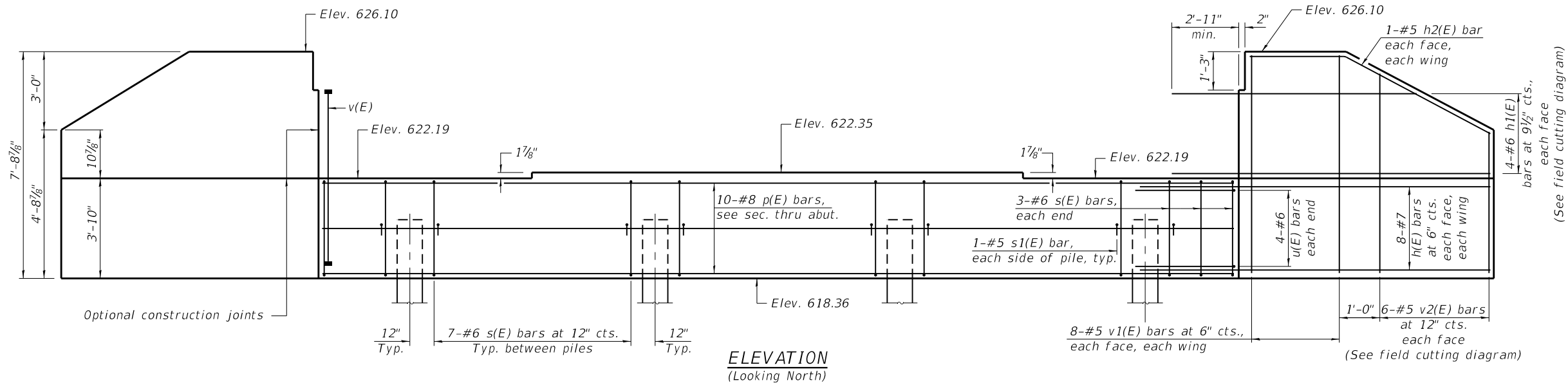
**HANCOCK COUNTY
HIGHWAY DEPARTMENT**

**SOUTH ABUTMENT
STRUCTURE NO. 034-3035**

SHEET NO. 13 OF 16 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1423	22-00142400-BR	HANCOCK	31	20
CONTRACT NO. 93836				
ILLINOIS FED. AID PROJECT				

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PILE DATA

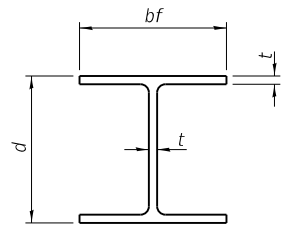
Type: Steel HP 12x53 Set in Rock
Estimated Top of Rock Elevation: ± 607.0
Rock Socket Diameter: 2'-0"
Rock Socket Depth: 6'-0"
Est. Length: 19' per pile
No. Production Piles: 4

BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	32	#7	13'-10"	
h1(E)	8	#6	22'-1"	
h2(E)	4	#5	10'-2"	
p(E)	10	#8	29'-8"	
s(E)	27	#6	15'-6"	
s1(E)	8	#5	4'-7"	
u(E)	8	#6	12'-1"	
v(E)	79	#8	5'-6"	
v1(E)	32	#5	7'-5"	
v2(E)	12	#5	11'-6"	
Structure Excavation			Cu. Yd.	99
Concrete Structures			Cu. Yd.	22.1
Reinforcement Bars, Epoxy Coated			Pound	4,370
Furnishing Steel Piles HP 12x53			Foot	76
Drilling and Setting Piles (In Soil)			Cu. Ft.	143
Drilling and Setting Piles (In Rock)			Cu. Ft.	75
Granular Backfill for Structures			Cu. Yd.	55
Geocomposite Wall Drain			Sq. Yd.	32
Pipe Underdrains for Structures 4"			Foot	68

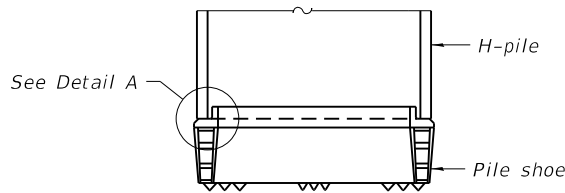
Notes:

Four steps monolithically with cap.
Headed bars shall conform to ASTM A970 with threaded attachment; Class HA; and reinforcement bars conforming to ASTM A706. Cost included with Reinforcement Bars, Epoxy Coated.
For details of piles see sheet 15 of 16.

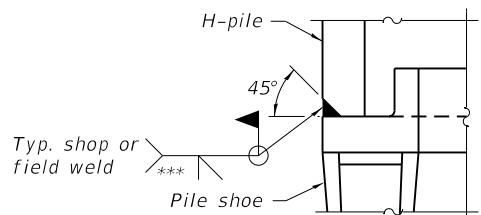


STEEL PILE TABLE

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"



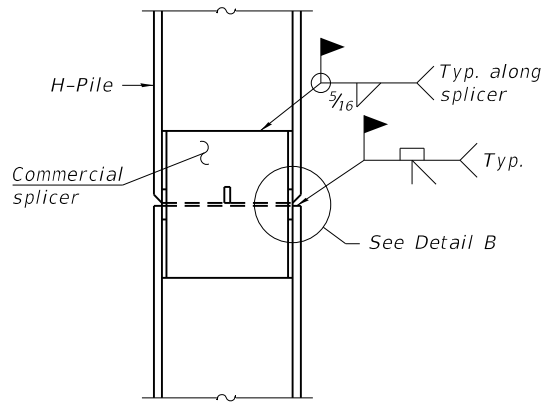
ELEVATION



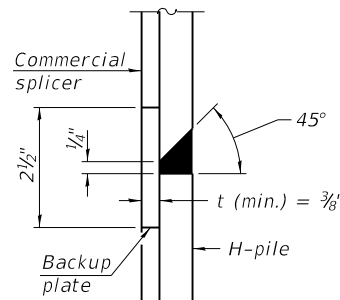
DETAIL A

SHOE ATTACHMENT

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

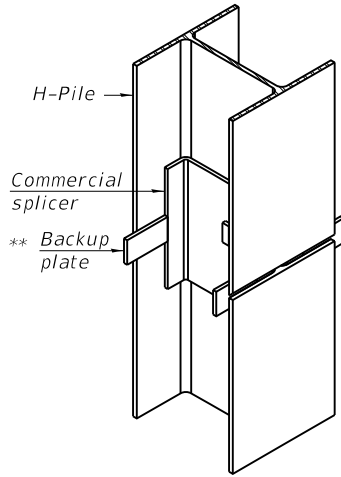


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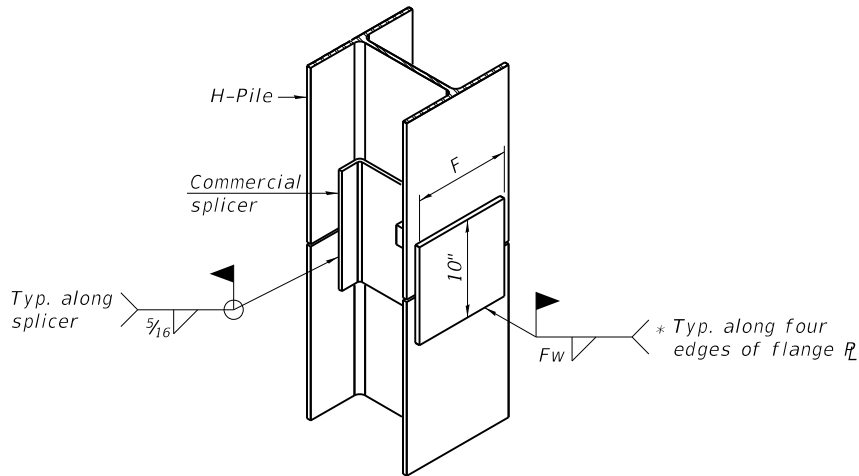


DETAIL "B"

WELDED COMMERCIAL SPLICE



ISOMETRIC VIEW



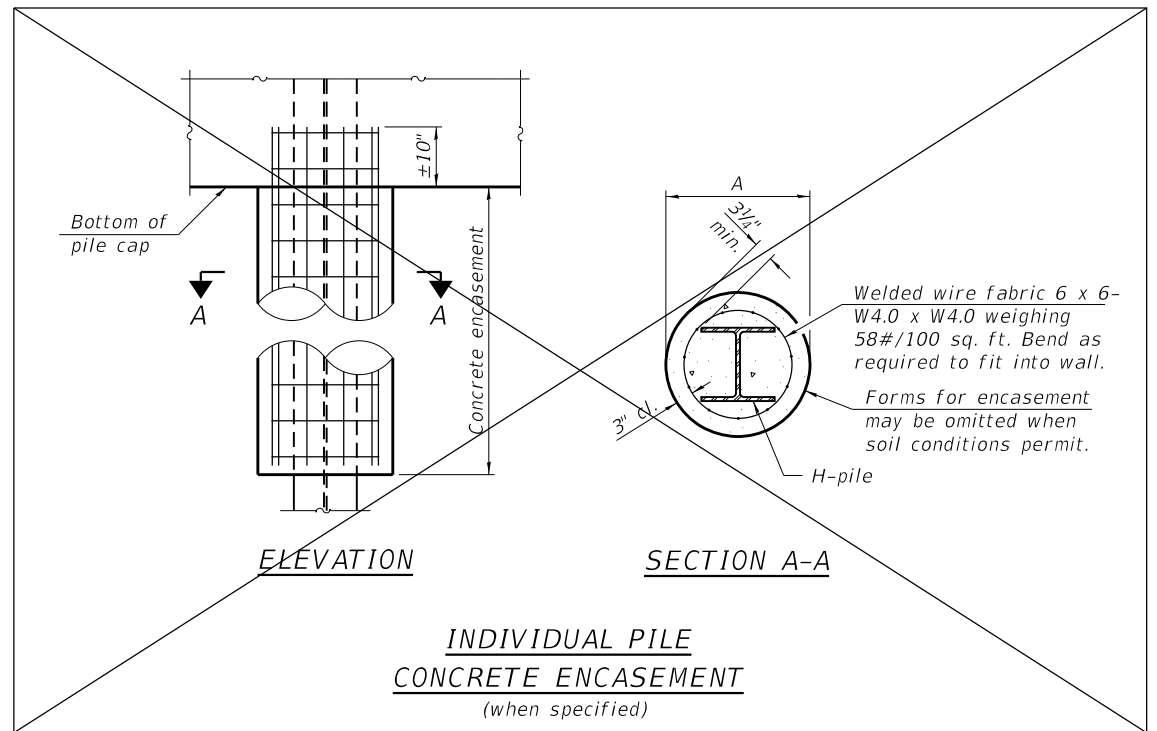
ISOMETRIC VIEW

WELDED COMMERCIAL SPLICE ALTERNATE

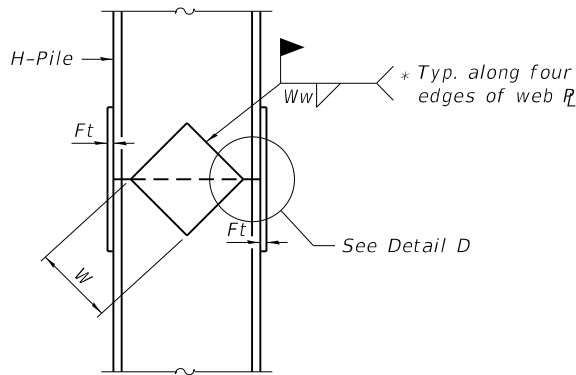
* Interrupt welds 1/4" from end of web and/or each flange.

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

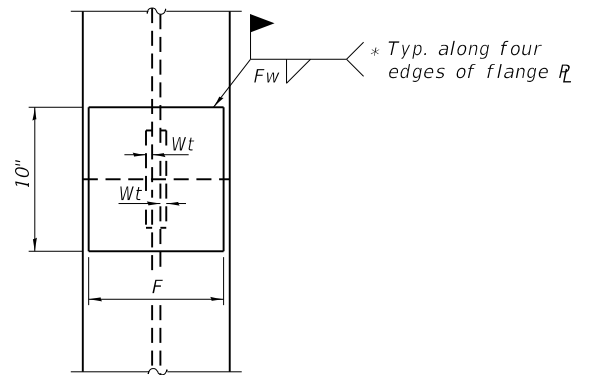
*** Weld size per pile shoe manufacturer (5/16" min.).



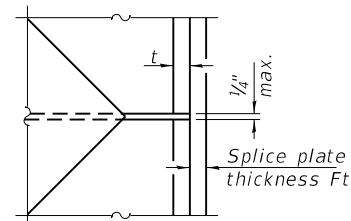
INDIVIDUAL PILE
CONCRETE ENCASEMENT
(when specified)



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"

F-HP

2-I-2023

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STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

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PLOT DATE	= 2/11/2025	CHECKED	- AMS	REVISED	-

HANCOCK COUNTY
HIGHWAY DEPARTMENT

HP PILE DETAILS
STRUCTURE NO. 034-3035

SHEET NO. 15 OF 16 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1423	22-00142-00-BR	HANCOCK	31	22
CONTRACT NO. 93836				
ILLINOIS FED. AID PROJECT				

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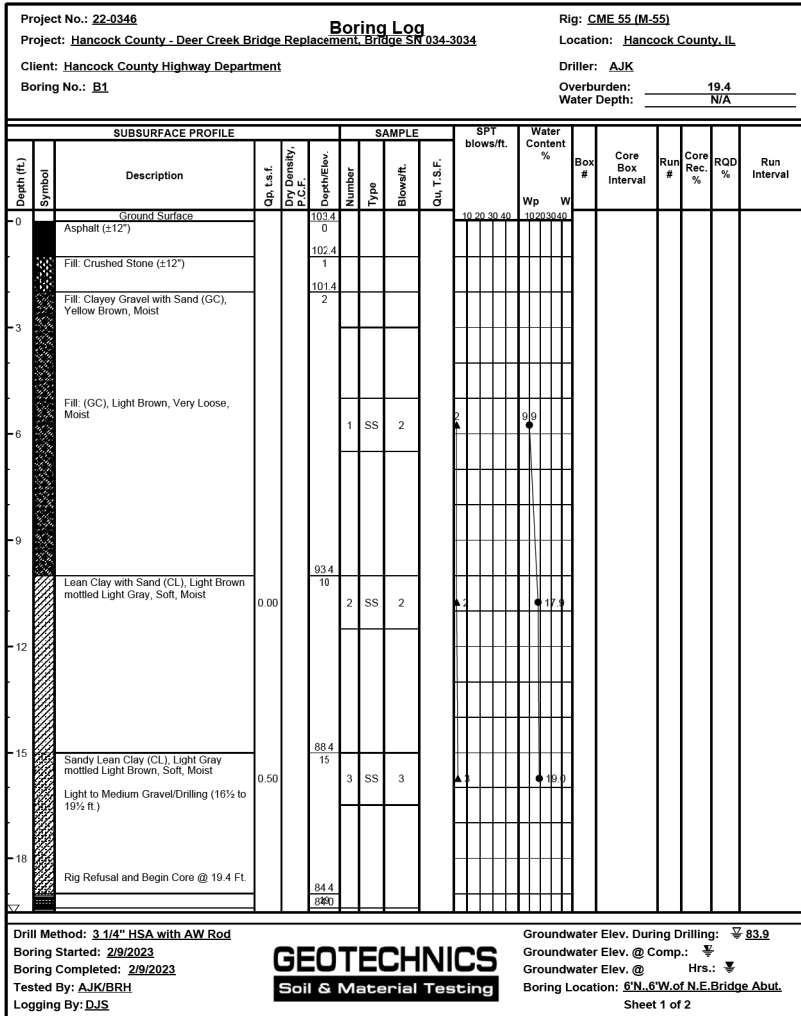
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HANCOCK COUNTY
HIGHWAY DEPARTMENT

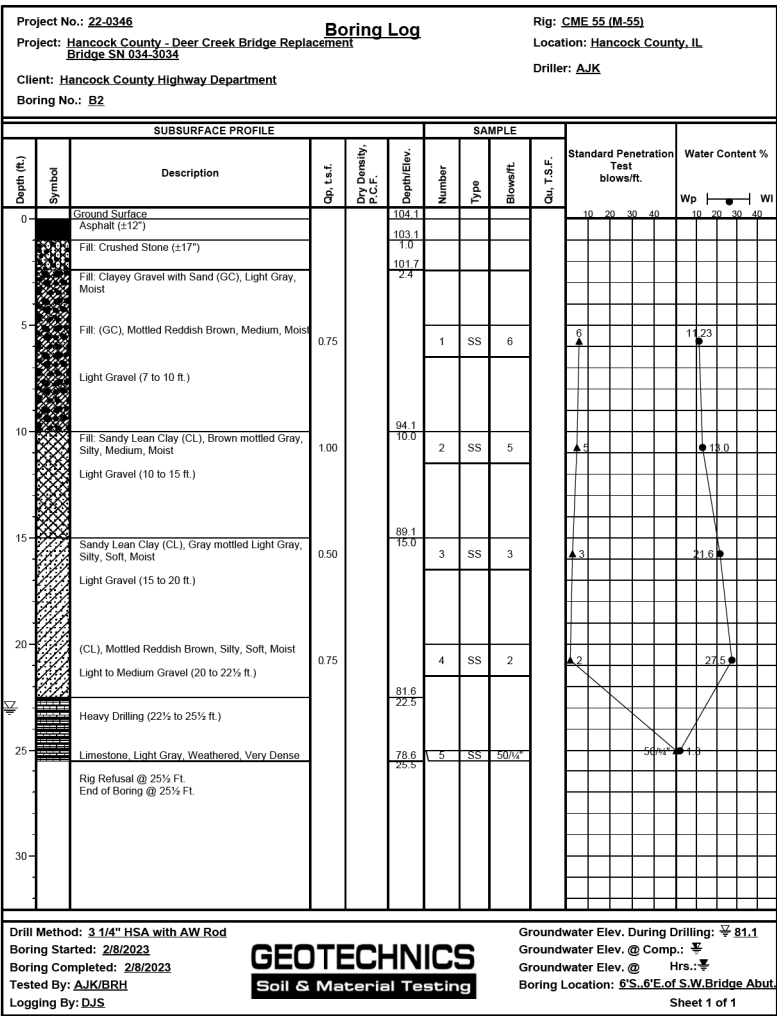
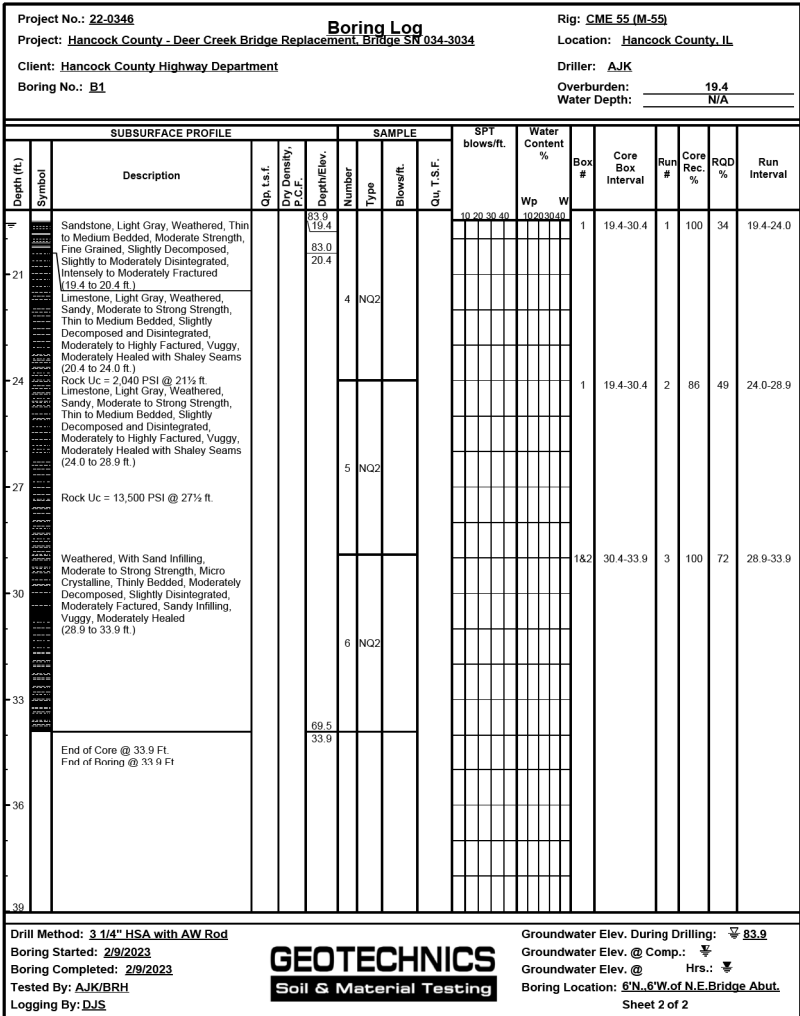
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STRUCTURE NO. 034-3035

SHEET NO. 16 OF 16 SHEETS

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1423	22-00142-00-BR	HANCOCK	31	23
CONTRACT NO. 93836				
ILLINOIS		FED. AID PROJECT		



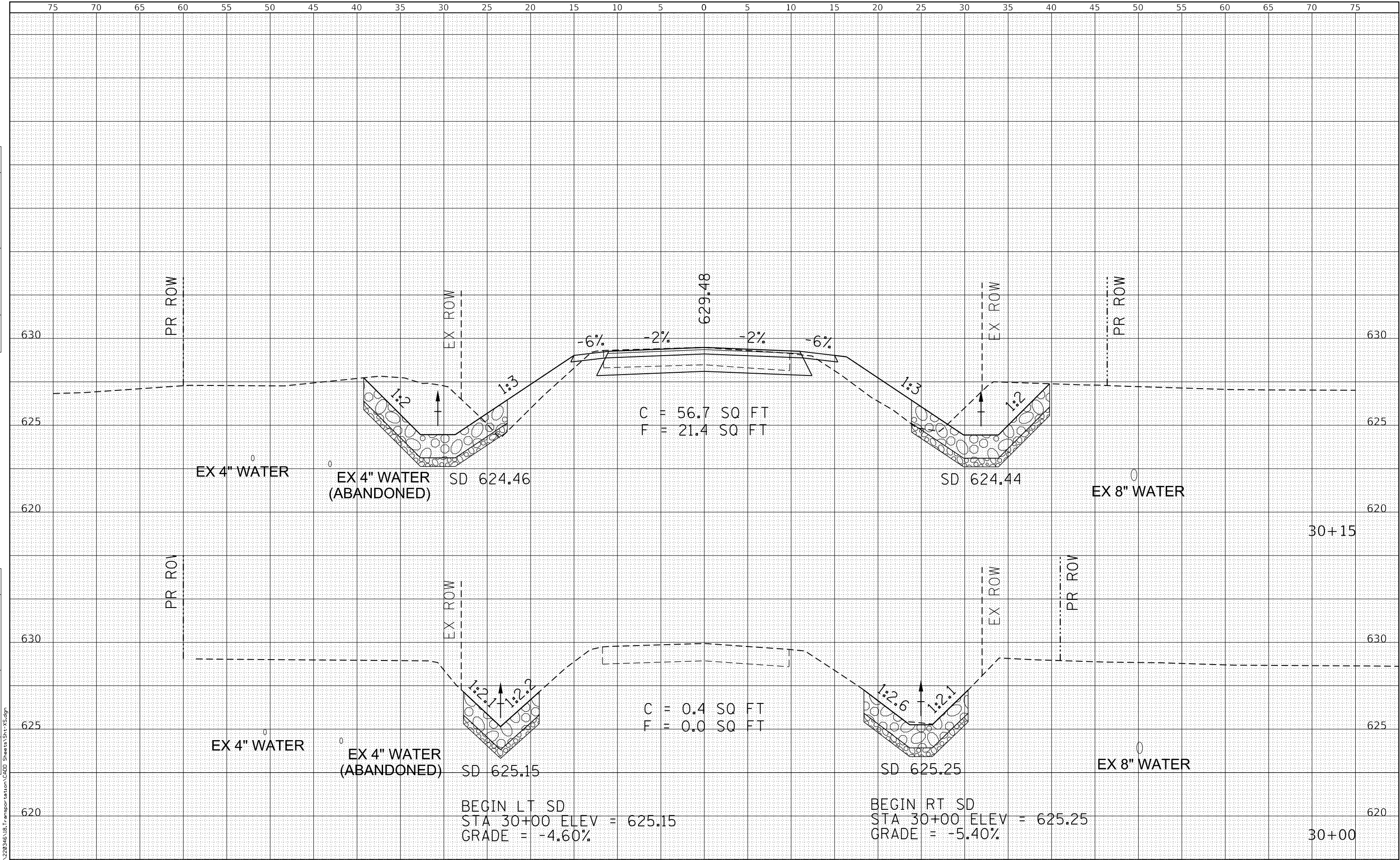
BORING #1



BORING #2

DATE	BY	SURVEYED	PLOTTED	NOTED	CHECKED

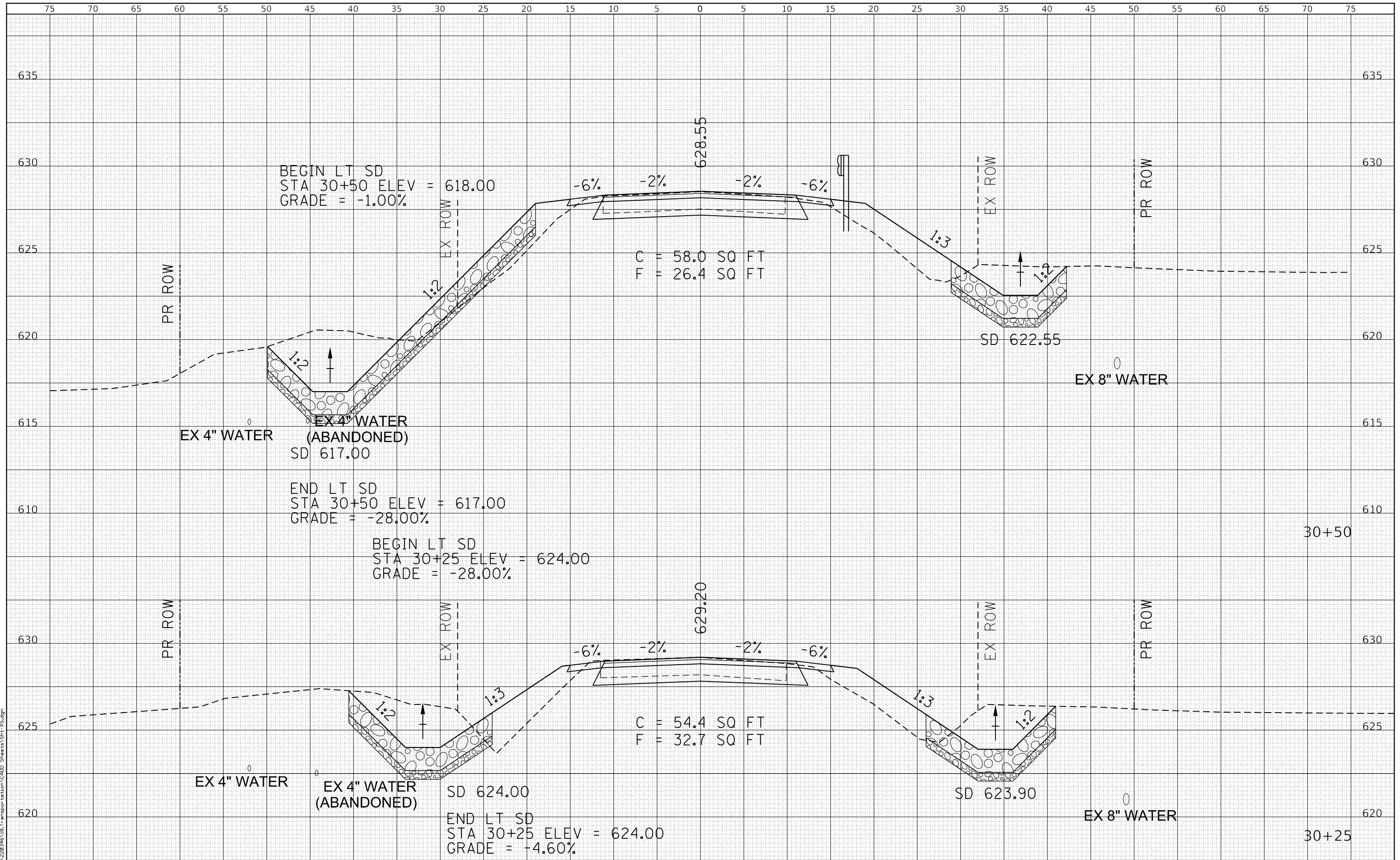
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		PLOT DATE = 2/11/2025	DATE -				REVISD -	ILLINOIS FED. AID PROJECT			

FINAL SURVEY		BY	DATE
SURVEYED _____			
PLOTTED _____			
TEMPLATE _____			
AREAS _____			
AREAS CHECKED _____			
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ORIGINAL		BY	DATE
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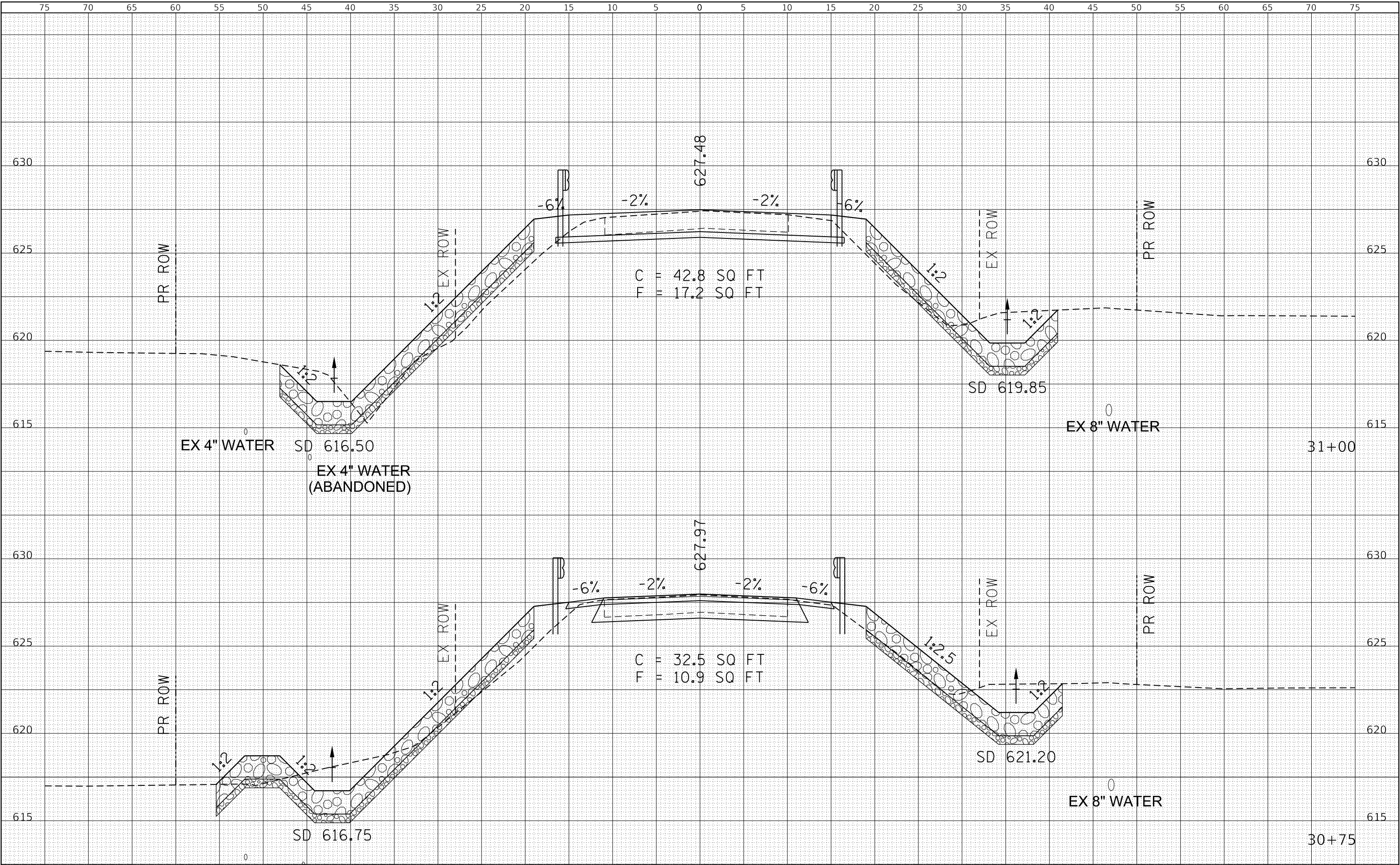


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KLINGNER & ASSOCIATES, P.C. Engineers • Architects • Surveyors 616 N.24TH ST., QUINCY, ILLINOIS 62301 217.223.3670 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738			USER NAME = rjp		DESIGNED - RJP		REVISED -		HANCOCK COUNTY HIGHWAY DEPARTMENT										CH 3 (2100E) OVER DEER CREEK CROSS SECTIONS						F.A.S. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.			
					DRAWN - RJP		REVISED -																		1423	22-00142-00-BR		HANCOCK	31	25			
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			PLOT DATE = 2/11/2025		DATE -		REVISED -																										

DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS	CHECKED
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DATE	BY	SURVEYED	PLOTTED	TEMPLATE	AREAS	CHECKED
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STATE OF ILLINOIS DESIGN FIRM NO. 154-2738

USER NAME = rjp
DESIGNED - RJP
DRAWN - RJP
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DATE - 2/11/2025

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**HANCOCK COUNTY
HIGHWAY DEPARTMENT**

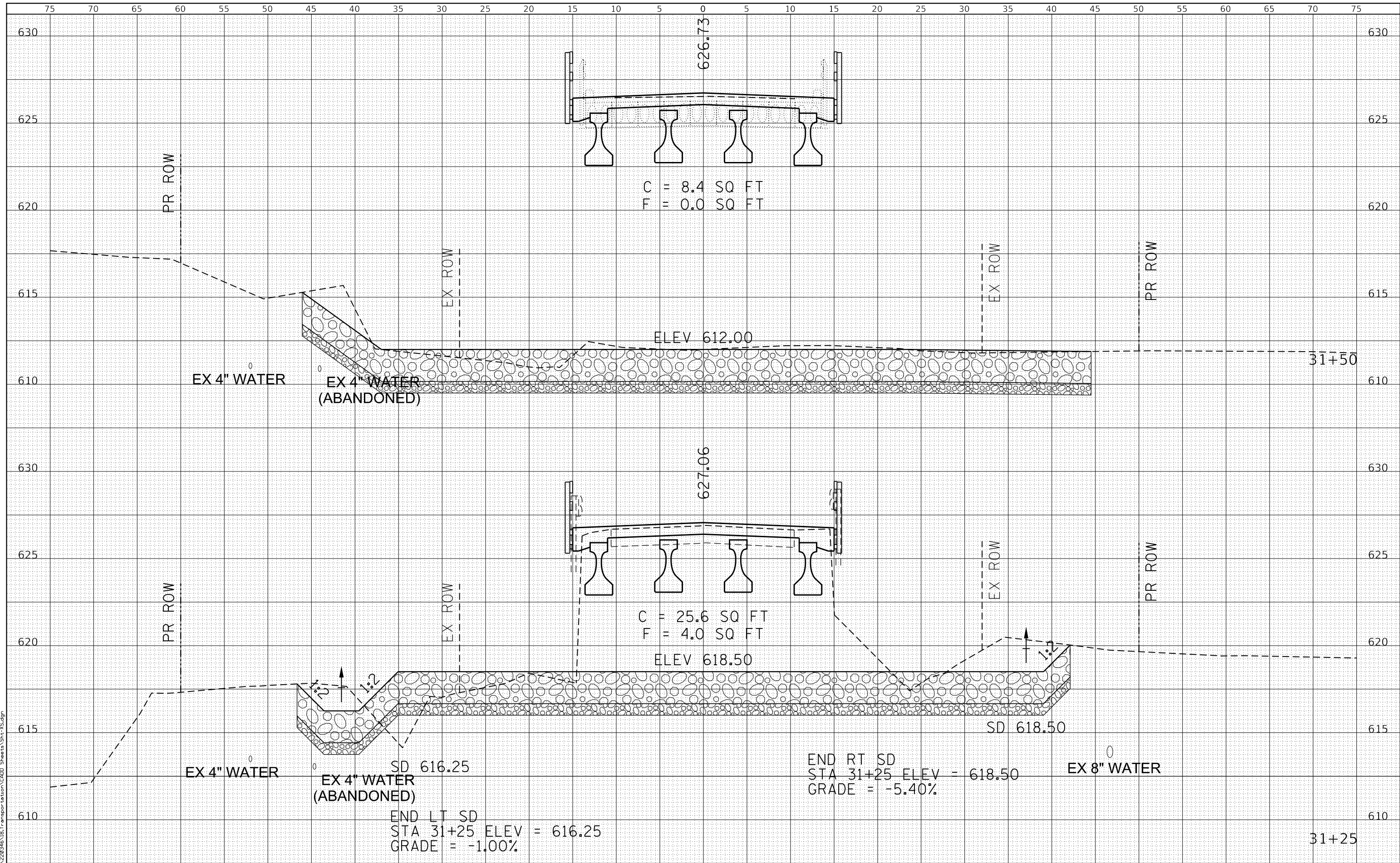
**CH 3 (2100E) OVER DEER CREEK
CROSS SECTIONS**

SCALE: 1"=5'H
1"=2.5'V
SHEET 3 OF 8 SHEETS
STA. 30+75 TO STA. 31+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1423	22-00142-00-BR	HANCOCK	31	26
CONTRACT NO. 93836				
ILLINOIS FED. AID PROJECT				

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

ORIGINAL			BY	DATE
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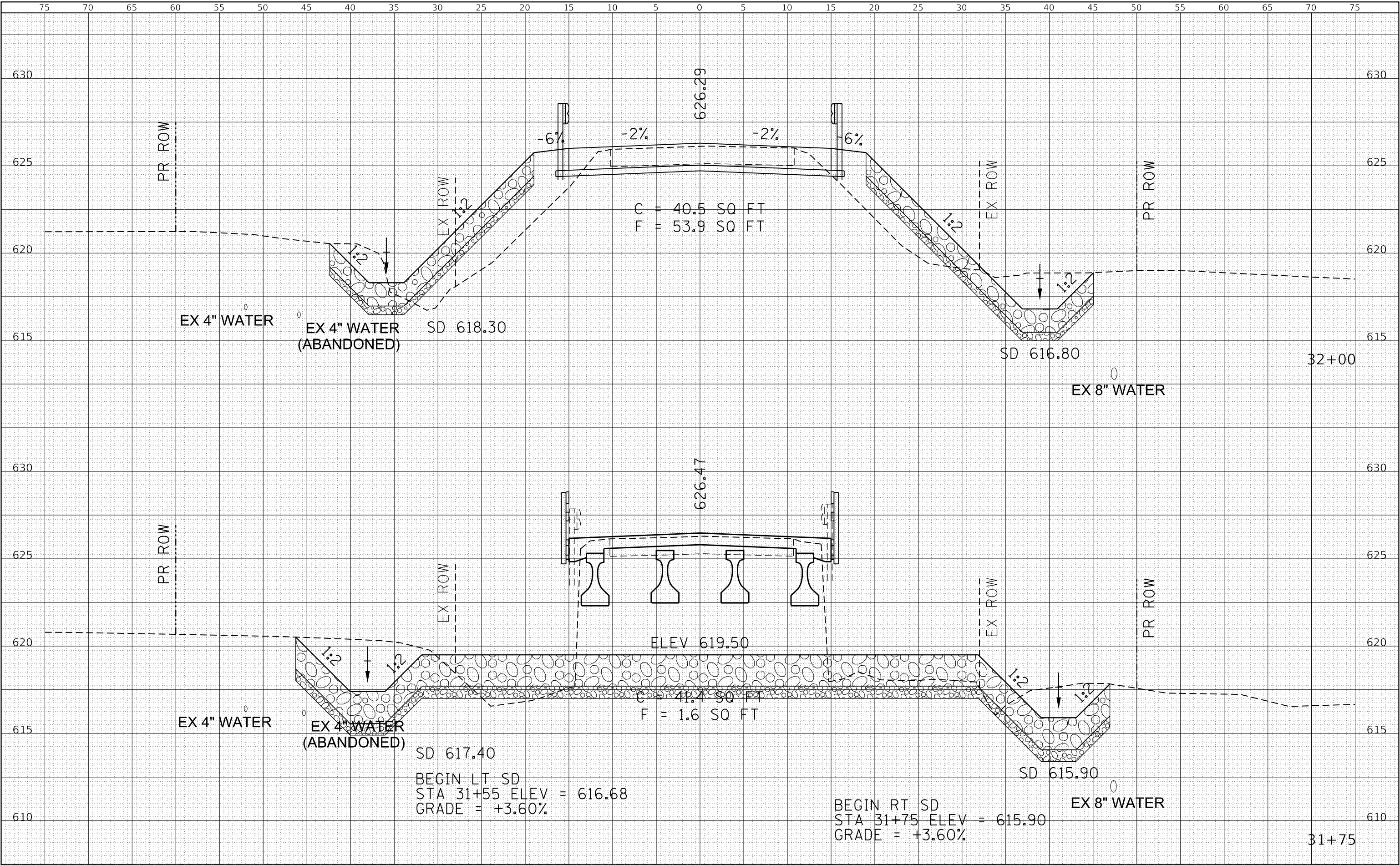


 KLINGNER & ASSOCIATES, P.C. Engineers • Architects • Surveyors 616 N.24TH ST. QUINCY, ILLINOIS 62301 217.223.3670 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738										USER NAME = rjp DESIGNED - RJP DRAWN - RJP CHECKED - EBB PLOT SCALE = 10.0000' / 1" = 100' PLOT DATE = 2/11/2025 DATE -										REVISED - REVISED - REVISED - REVISED -										HANCOCK COUNTY HIGHWAY DEPARTMENT										CH 3 (2100E) OVER DEER CREEK CROSS SECTIONS										F.A.S. RTE. 1423 SECTION 22-00142-00-BR COUNTY HANCOCK TOTAL SHEETS 31 SHEET NO. 27 CONTRACT NO. 93836 ILLINOIS FED. AID PROJECT									
SCALE: 1"=5'H 1"=2.5'V										SHEET 4 OF 8 SHEETS										STA. 31+25 TO STA. 31+50																																							

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

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STATE OF ILLINOIS DESIGN FIRM NO. 154-2738

USER NAME = rjp
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DRAWN - RJP
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**HANCOCK COUNTY
HIGHWAY DEPARTMENT**

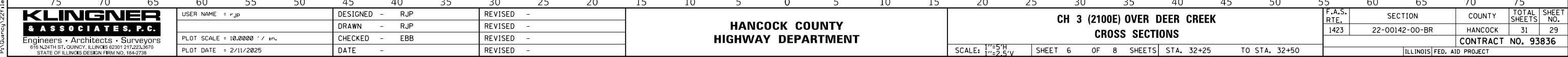
**CH 3 (2100E) OVER DEER CREEK
CROSS SECTIONS**

SCALE: 1"=5'H
SHEET 5 OF 8 SHEETS
STA. 31+75 TO STA. 32+00

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1423	22-00142-00-BR	HANCOCK	31	28
CONTRACT NO. 93836				

ILLINOIS FED. AID PROJECT

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



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STATE OF ILLINOIS DESIGN FIRM NO. 184-2738

USER NAME = r.jp	DESIGNED - RJP	REVISED -
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PLOT SCALE = 10.0000 ' / in.	CHECKED - EBB	REVISED -
PLOT DATE = 2/11/2025	DATE -	REVISED -

**HANCOCK COUNTY
HIGHWAY DEPARTMENT**

CH 3 (2100E) OVER DEER CREEK CROSS SECTIONS

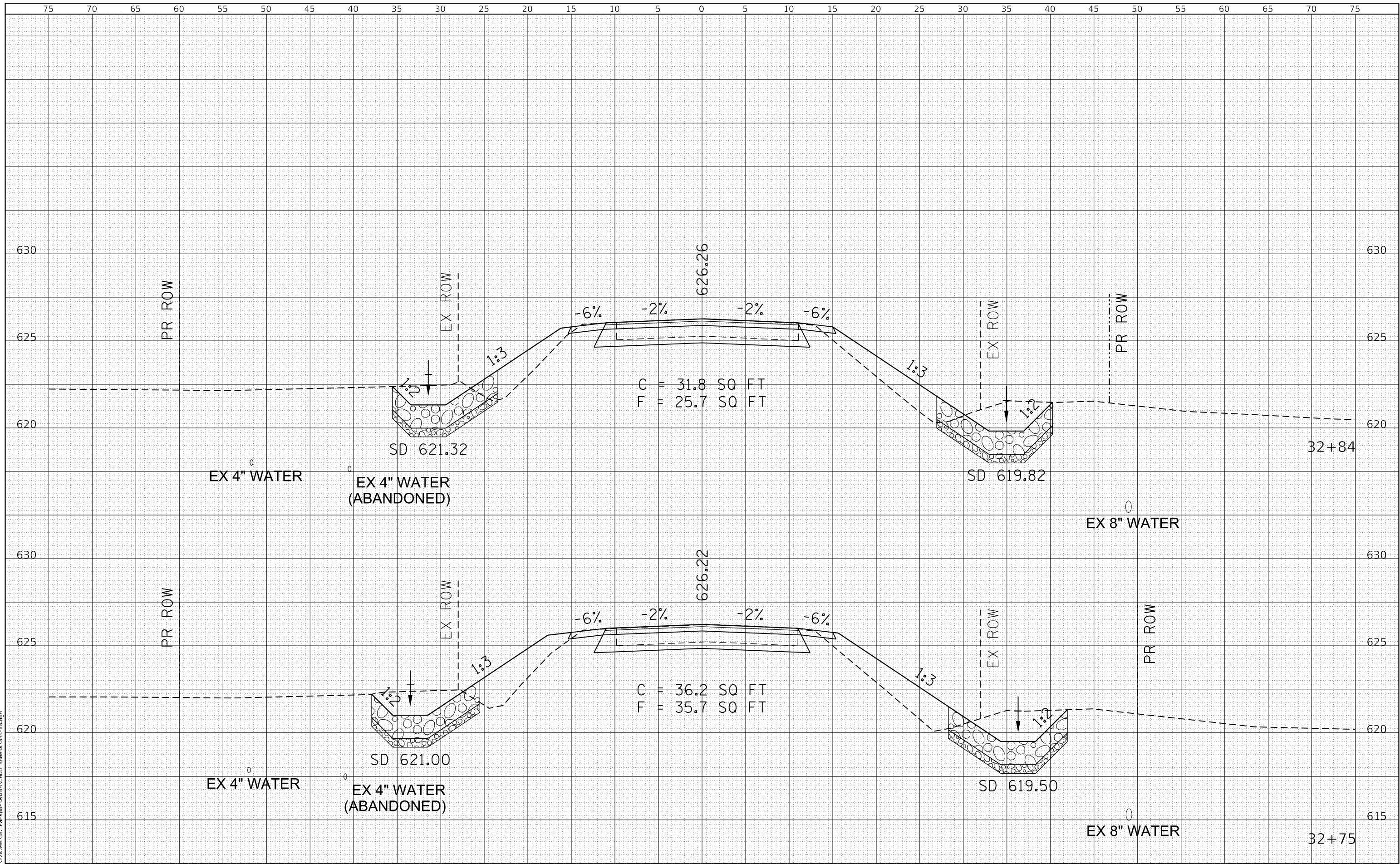
SCALE: $\frac{1''=5'H}{1''=2.5'V}$	SHEET 6 OF 8 SHEETS	STA. 32+25 TO STA. 32+50
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F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1423	22-00142-00-BR	HANCOCK	31	29
		CONTRACT NO. 93836		
ILLINOIS		FED. AID PROJECT		

ILLINOIS	FED. AID PROJECT
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FINAL SURVEY		BY	DATE
SURVEYED			
PLOTTED			
NOTE BOOK			
TEMPLATE			
AREAS			
AREAS CHECKED			
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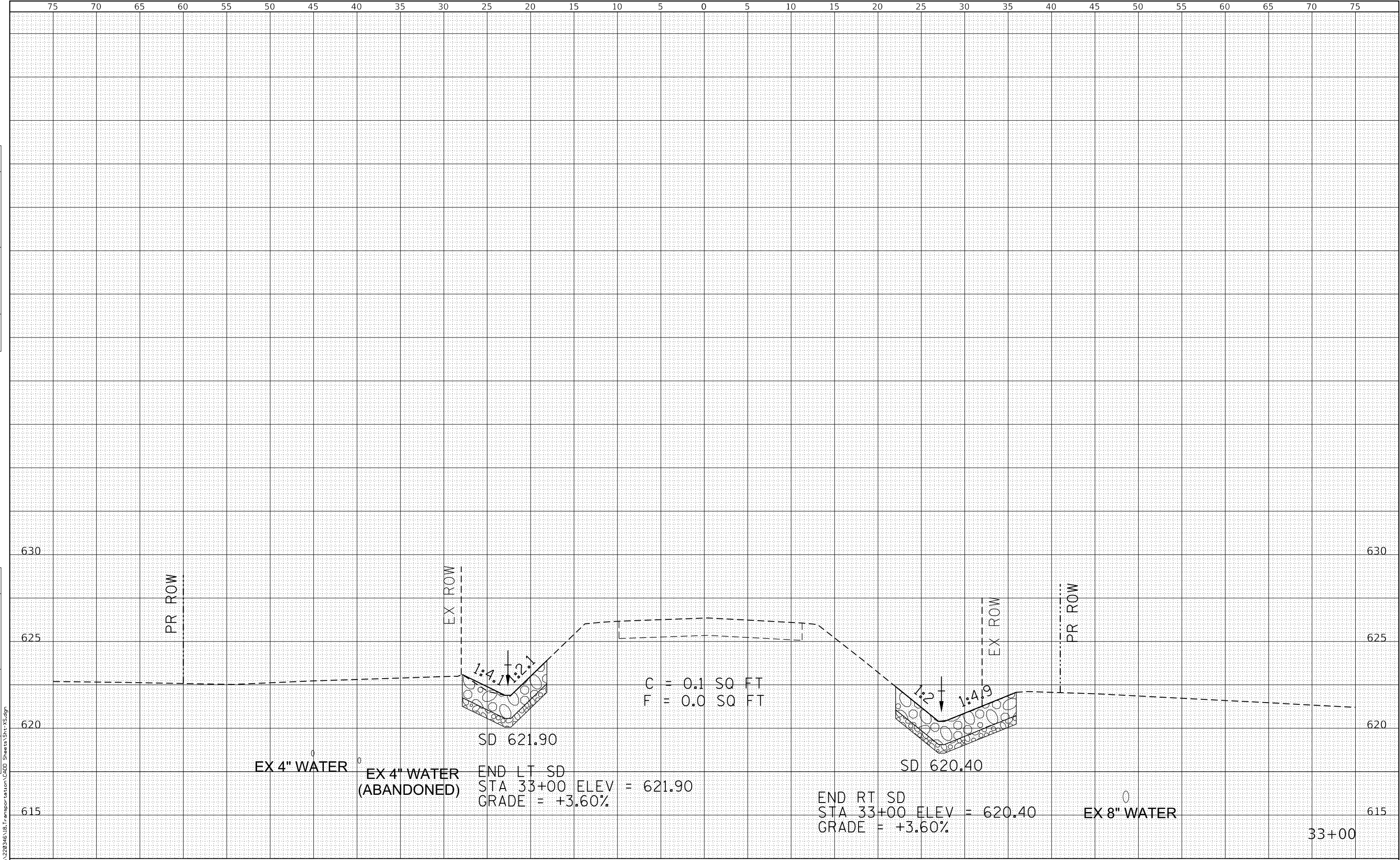
ORIGINAL			BY	DATE
SURVEYED				
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AREAS				
AREAS CHECKED				
NO.				



75	70	65	60	55	50	45	40	35	30	25	20	15	10	5	0	5	10	15	20	25	30	35	40	45	50	55	60	65	70	75	
KLINGNER & ASSOCIATES, P.C. Engineers • Architects • Surveyors 676 N24TH ST. QUINCY, ILLINOIS 62301 217.223-2670 STATE OF ILLINOIS DESIGN FIRM NO. 184-2738			USER NAME = rjp		DESIGNED - RJP		REVISED -		HANCOCK COUNTY HIGHWAY DEPARTMENT											CH 3 (2100E) OVER DEER CREEK CROSS SECTIONS						F.A.S. RTE.	SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
			DRAWN - RJP		REVISED -		1423	22-00142-00-BR																		HANCOCK	31	30			
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			PLOT DATE = 2/11/2025		DATE -		REVISED -		SCALE: 1"=5'H 1"=2.5'-V		SHEET 7 OF 8 SHEETS		STA. 32+75 TO STA. 32+84		ILLINOIS FED. AID PROJECT																

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

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



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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 = 2/11/2025	DATE -	REVISED -

HANCOCK COUNTY
HIGHWAY DEPARTMENT

CH 3 (2100E) OVER DEER CREEK
CROSS SECTIONS

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

F.A.S. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1423	22-00142-00-BR	HANCOCK	31	31
CONTRACT NO. 93836				

ILLINOIS FED. AID PROJECT