



FOR INDEX OF SHEETS, SEE SHEET NO. 3
FOR SUMMARY OF QUANTITIES, SEE SHEET NO. 4-9

TRAFFIC DATA

IL 3

FUNCTIONAL CLASSIFICATION: OTHER PRINCIPAL ARTERIAL
ADT: 900(2023); 940(2026)
PV, SU, MU: 82.3%, 4.4%, 13.3%
POSTED SPEED: 55 MPH

TOWNSHIPS

SAND RIDGE; T9S, R3W

COORDINATE SYSTEM : NORTH AMERICAN DATUM (NAD) 83
ILLINOIS STATE PLANE WEST ZONE

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

PROJECT MANAGER: EHREN KIRBY (618)351-5227
Ehren.Kirby@illinois.gov
PROJECT ENGINEER: JOHN NEGANGARD (217)670-1533
jnegangard@bfwengineers.com
CONTRACT NO. 78967

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

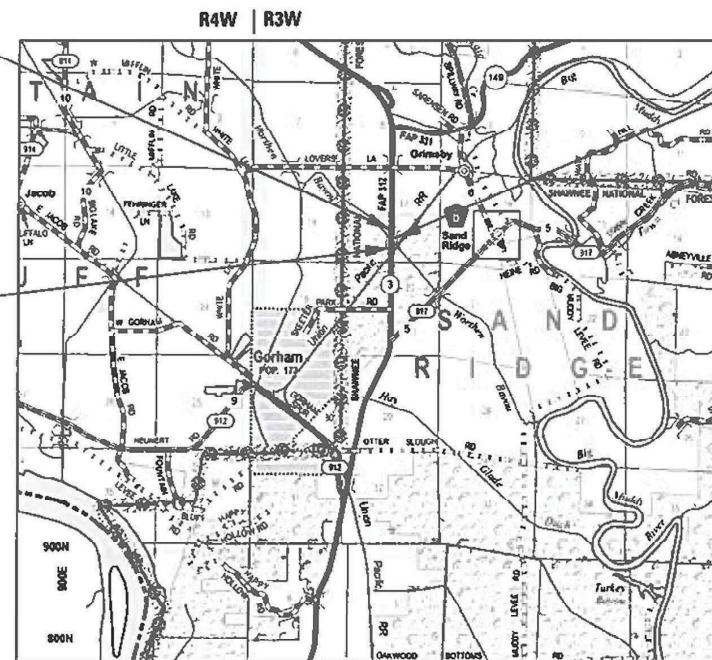
PROPOSED HIGHWAY PLANS

FAP ROUTE 312 (IL 3)
SECTION 130B-1
PROJECT NHPP-JN27(428)
BRIDGE REPLACEMENT
JACKSON COUNTY

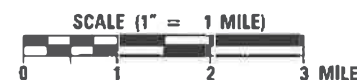
C-99-082-22

BEGIN PROJECT
STA. 101 + 92.00

END PROJECT
STA. 106 + 32.00



LOCATION MAP

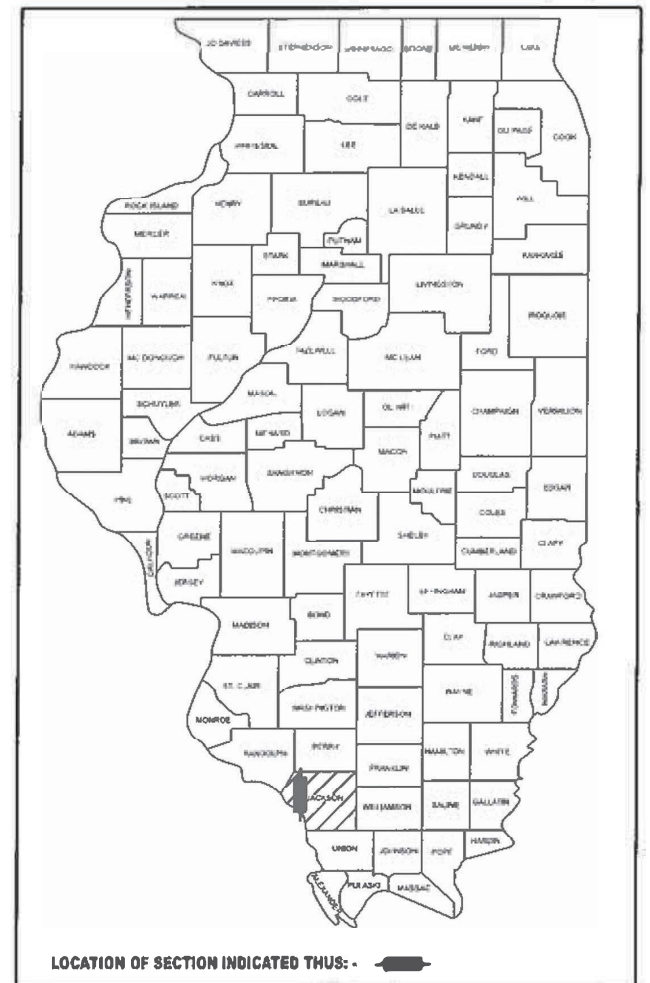


GROSS LENGTH = 440.00 FT. = 0.083 MILES
NET LENGTH = 440.00 FT. = 0.083 MILES



F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	1
CONTRACT NO. 78967				

D-99-062-022



PROJECT INCLUDES
BRIDGE REPLACEMENT OF
FAP 312 (IL 3) OVER
WORTHEN BAYOU
STA 104 + 12.00
EX SN 039-0026
PR SN 039-0083

LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUBMITTED Nov 24 20 25

Lora S. Ramsey

REGION FIVE ENGINEER

January 23 20 26

ENGINEER OF DESIGN AND ENVIRONMENT

January 23 20 26

DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

Prepared By: Susan Poe
DISTRICT STUDIES & PLANS ENGINEER

Examined By: Nancy Heil #1
DISTRICT LAND ACQUISITION ENGINEER

Examined By: Con. Rick
DISTRICT PROGRAM DEVELOPMENT ENGINEER

Examined By: 2400
DISTRICT OPERATIONS ENGINEER

Examined By: _____
DISTRICT PROJECT IMPLEMENTATION ENGINEER

Examined By: Bennett
DISTRICT CONSTRUCTION ENGINEER

Examined By: Aam Hays
DISTRICT MATERIALS ENGINEER

MODEL: Sheet 2
FILE NAME: c:\shelby\w34020827\0978967-shl-GenNote.dwg

INDEX OF SHEETS

SHEET #	DESCRIPTION
1	COVER SHEET
2	D9 SIGNATURE SHEET
3	INDEX OF SHEETS, LIST OF HIGHWAY STANDARDS, GENERAL NOTES, COMMITMENTS AND MIX TABLES
4-9	SUMMARY OF QUANTITIES
10-11	TYPICAL SECTIONS
12-18	SCHEDULE OF QUANTITIES
19	ALIGNMENT, TIES & BENCHMARKS
20	PLAN AND PROFILE SHEET
21	GUARDRAIL LAYOUT PLAN
22-29	TEMPORARY TRAFFIC CONTROL PLANS
30-60	STRUCTURAL DETAILS (SN 039-0083)
61-69	EXISTING BRIDGE PLANS (SN 039-0026)
70	EROSION CONTROL PLAN
71	HMA BUTT JOINT DETAIL
72-83	CROSS SECTIONS

LIST OF HIGHWAY STANDARDS

STANDARD NO.	DESCRIPTION
000001-09	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
001001-02	AREAS OF REINFORCEMENT BARS
001006	DECIMAL OF AN INCH AND OF A FOOT
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
420001-11	PAVEMENT JOINTS
420401-13	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB
515001-04	NAME PLATES FOR BRIDGES
601101-02	CONCRETE HEADWALL FOR PIPE UNDERDRAINS
630001-13	STEEL PLATE BEAM GUARDRAIL
630201-07	PCC/HMA STABILIZATION AT STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
701001-02	OFF-ROAD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24' (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-05	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS > 45 MPH
701321-19	LANE CLOSURE, 2L, 2W, BRIDGE REPAIR WITH BARRIER
701326-04	LANE CLOSURE, 2L, 2W, PAVEMENT WIDENING, FOR SPEEDS > 45 MPH
701901-11	TRAFFIC CONTROL DEVICES
704001-08	TEMPORARY CONCRETE BARRIER
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
862001-01	UNINTERRUPTABLE POWER SUPPLY (UPS)

GENERAL NOTES

FACTORS USED FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

1.

ITEMS

ALL HOT MIX ASPHALT

ALL AGGREGATE

RIPRAP

EARTH

APPLICATION RATES

2.016 TONS/CU. YD.

2.05 TONS/CU. YD.

1.50 TONS/CU. YD.

110 LBS/CU. FT.
2.

AT ALL LOCATIONS WHERE PROPOSED HOT-MIX ASPHALT SURFACE PAVEMENT JOINS AN EXISTING HOT-MIX ASPHALT SURFACE OR CONCRETE PAVEMENT, A FULL DEPTH SAW CUT SHALL BE CONSTRUCTED AS PART OF THE HOT-MIX ASPHALT SURFACE REMOVAL. THE COST OF THE SAW CUT SHALL BE CONSIDERED AS INCLUDED IN THE COST OF THE HOT-MIX ASPHALT SURFACE REMOVAL PAY ITEM.
3.

THE QUANTITY OF SHORT TERM PAVEMENT MARKING SHOWN IN THE PLANS IS BASED ON ONE APPLICATION EACH FOR THE HMA SURFACE REMOVAL, BINDER COURSE, AND SURFACE COURSE

COMMITMENTS:

TREE REMOVAL SHALL BE COMPLETED BETWEEN OCTOBER 1ST TO MARCH 31ST OF ANY GIVEN YEAR DURING CONSTRUCTION.

LOCATION:	HMA SHLD 6" (SQYD), BOTTOM LIFT 1 AT 4"; HMA SHLD 10" (SQYD), BOTTOM LIFTS, 2 AT 4"	HMA SURFACE COURSE (TON), TOP LIFT, 1 AT 1½"; HMA SHLD 10" (SQYD), TOP LIFT, 1 AT 2"	HMA SHLD (TON), TOP LIFT, 1 AT 1½"; HMA SHLD 6" (SQYD), TOP LIFT, 1 AT 2"
MIXTURE USE(S):	HOT-MIX ASPHALT BINDER COURSE, IL- 19mm, N70	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N70	HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N30
AG/PG	PG64-22	PG64-22	PG64-22
DESIGN AIR VOIDS:	4.0%, 70 GYRATION DESIGN	4.0%, 70 GYRATION DESIGN	4.0%, 30 GYRATION DESIGN
MIXTURE COMPOSITION:	IL 19.0mm	IL 9.5mm	IL 9.5L
FRICTION AGGREGATE:	NONE	MIX C	NONE
MIXTURE WEIGHT:	112 LBS/SQ YD/INCH	112 LBS/SQ YD/INCH	112 LBS/SQ YD/INCH
QUALITY MANAGEMENT PROGRAM:	QC/QA	QC/QA	QC/QA
SUBLOT SIZE:	3,000 TONS	3,000 TONS	3,000 TONS
MATERIAL TRANSFER DEVICE:	NO	NO	NO

MODEL: Sheet 3
FILE NAME: c:\shelby_ws\dd028277\D978967-shr-GenNote.dgn

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES
IL 3

SCALE: N.T.S.

SHEET 1 OF 1 SHEETS

STA. TO STA.

F.A.P.
RTE.

SECTION

COUNTY

TOTAL
SHEETS

SHEET
NO.

312

130B-1

JACKSON

83

3

CONTRACT NO. 78967

ILLINOIS

FED. AID PROJECT

MODEL: Quantities Sheet 1
FILE NAME: g:\down\sw-bentley.com\hmsgw\Documents\BFW\PROJECTS\2015 PROJECTS\25152 - IDOT D9 PTB\99-038 WQ#20 IL 3 Bridge Replacement\25152\DOT\CAO Sheets\0978967-IL-500.dgn

SUMMARY OF QUANTITIES				CONSTR. CODE
				0010
				80% FED 20% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE
				PR SN 039-0083
				RURAL
20100500	TREE REMOVAL, ACRES	ACRE	0.1	0.1
20200100	EARTH EXCAVATION	CU YD	13	13
20400800	FURNISHED EXCAVATION	CU YD	139	139
20300100	CHANNEL EXCAVATION	CU YD	1407	1407
25000200	SEEDING, CLASS 2	ACRE	0.3	0.3
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	26	26
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	26	26
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	26	26
25000700	AGRICULTURAL GROUND LIMESTONE	TON	1	1
25100115	MULCH, METHOD 2	ACRE	0.1	0.1
25100630	EROSION CONTROL BLANKET	SQ YD	810	810
28000400	PERIMETER EROSION BARRIER	FOOT	475	475
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	100	100
28100105	STONE RIPRAP, CLASS A3	SQ YD	53	53
* SPECIALTY ITEM				



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USER NAME = ShelbySkinner

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PLOT SCALE = \$SCALE\$

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REVISED -

PLOT DATE = 12/3/2025

DATE -

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 3

SCALE:

SHEET 1

OF

6

SHEETS

STA.

TO STA.

F.A.P.
RTE.

SECTION

COUNTY

TOTAL
SHEETS

SHEET
NO.

312

130B-1

JACKSON

83

4

CONTRACT NO. 78967

ILLINOIS

FED. AID PROJECT

MODEL - Quantities Sheet 2
FILE NAME: pr\2025ms-pj\entirety.com\blwme-pw-01\Documents\BFW\PROJECTS\2025 PROJECTS\23132-132-1DOT D9 PTB199-038 W04#20 IL 3 Bridge Replacement\23132\DOT\CAO_Sheets\0978967-rpt-SQO.dgn

SUMMARY OF QUANTITIES				CONSTR. CODE 0010 80% FED 20% STATE BRIDGE PR SN 039-0083 RURAL
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
28100107	STONE RIPRAP, CLASS A4	SQ YD	1242	1242
28200200	FILTER FABRIC	SQ YD	1242	1242
31101400	SUBBASE GRANULAR MATERIAL, TYPE B 6"	SQ YD	290	290
40600295	POLYMER BITUMINOUS MATERIALS (TACK COAT)	POUND	522	522
40600370	LONGITUDINAL JOINT SEALANT	FOOT	163	163
40600990	TEMPORARY RAMP	SQ YD	53	53
40604052	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	TON	37	37
42000080	PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB	SQ YD	270	270
42001300	PROTECTIVE COAT	SQ YD	270	270
44000100	PAVEMENT REMOVAL	SQ YD	543	543
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	725	725
44004250	PAVED SHOULDER REMOVAL	SQ YD	432	432
44200050	WELDED WIRE REINFORCEMENT	SQ YD	270	270
48203021	HOT-MIX ASPHALT SHOULDERS, 6"	SQ YD	124	124

* SPECIALTY ITEM

REV - MS



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PLOT SCALE	= \$SCALE\$
PLOT DATE	= 11/25/2025

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DATE	-

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REVISED	-
REVISED	-
REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 3

SCALE: SHEET 2 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	5
CONTRACT NO. 78967				
ILLINOIS FED. AID PROJECT				

MODEL: Quantities Sheet 3
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SUMMARY OF QUANTITIES				CONSTR. CODE
				0010
				80% FED 20% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE
				PR SN 039-0083
				RURAL
48203037	HOT-MIX ASPHALT SHOULDERS, 10"	SQ YD	432	432
48203100	HOT-MIX ASPHALT SHOULDERS	TON	24	24
50100100	REMOVAL OF EXISTING STRUCTURES	EACH	1	1
50200100	STRUCTURE EXCAVATION	CU YD	560	560
50200300	COFFERDAM EXCAVATION	CU YD	136	136
50201121	COFFERDAM (TYPE 2) (LOCATION - 1)	EACH	1	1
50300100	FLOOR DRAINS	EACH	18	18
50300225	CONCRETE STRUCTURES	CU YD	189.7	189.7
50300255	CONCRETE SUPERSTRUCTURE	CU YD	261.2	261.2
50300260	BRIDGE DECK GROOVING	SQ YD	908	908
50300265	SEAL COAT CONCRETE	CU YD	73.7	73.7
50300300	PROTECTIVE COAT	SQ YD	1129	1129
50301350	CONCRETE SUPERSTRUCTURE (APPROACH SLAB)	CU YD	117	117
50500105	FURNISHING AND ERECTING STRUCTURAL STEEL	L SUM	1	1

* SPECIALTY ITEM



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PLOT SCALE = \$SCALE\$

CHECKED -

REVISED -

PLOT DATE = 11/25/2025

DATE -

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 3

SCALE: SHEET 3 OF 6 SHEETS STA. TO STA.

F.A.P.

RTE.

SECTION

COUNTY

TOTAL

SHEETS

SHEET

NO.

312

130B-1

JACKSON

83

6

CONTRACT NO. 78967

ILLINOIS FED. AID PROJECT

MODEL: Quantities Sheet 4
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SUMMARY OF QUANTITIES				CONSTR. CODE
				0010
				80% FED 20% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	PR SN 039-0083
				SN 039-0083
				RURAL
50500505	STUD SHEAR CONNECTORS	EACH	3535	3535
50800205	REINFORCEMENT BARS, EPOXY COATED	POUND	113630	113630
50800515	BAR SPLICERS	EACH	862	862
51200963	FURNISHING METAL SHELL PILES 16" X 0.375"	FOOT	2176	2176
51202305	DRIVING PILES	FOOT	2176	2176
51203200	TEST PILE METAL SHELLS	EACH	2	2
51500100	NAME PLATES	EACH	1	1
52100520	ANCHOR BOLTS, 1"	EACH	36	36
52200010	TEMPORARY SHEET PILING	SQ FT	698	698
58600101	GRANULAR BACKFILL FOR STRUCTURES	CU YD	348	348
60100060	CONCRETE HEADWALLS FOR PIPE DRAINS	EACH	4	4
60146304	PIPE UNDERDRAINS FOR STRUCTURES 4"	FOOT	200	200
* 63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	50	50
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	4	4
* SPECIALTY ITEM				



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PLOT SCALE = \$SCALE\$	CHECKED -	REVISED -
PLOT DATE = 11/25/2025	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 3

SCALE: SHEET 4 OF 6 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	7
CONTRACT NO. 78967				
ILLINOIS FED. AID PROJECT				

MODEL: Quantities Sheet 5
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SUMMARY OF QUANTITIES				CONSTR. CODE
				0010
				80% FED 20% STATE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	BRIDGE
				PR SN 039-0083
				RURAL
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	4	4
63200310	GUARDRAIL REMOVAL	FOOT	532	532
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12
67100100	MOBILIZATION	L SUM	1	1
70100405	TRAFFIC CONTROL AND PROTECTION, STANDARD 701321	EACH	1	1
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1
70100500	TRAFFIC CONTROL AND PROTECTION, STANDARD 701326	L SUM	1	1
70103815	TRAFFIC CONTROL SURVEILLANCE	CAL DA	5	5
70106500	TEMPORARY BRIDGE TRAFFIC SIGNALS	EACH	1	1
70106700	TEMPORARY RUMBLE STRIPS	EACH	6	6
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	28	28
70300100	SHORT TERM PAVEMENT MARKING	FOOT	170	170
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	47	47
70400100	TEMPORARY CONCRETE BARRIER	FOOT	563	563
* SPECIALTY ITEM				



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PLOT DATE = 11/25/2025

DATE -

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 3

SCALE:

SHEET 5

OF

6

SHEETS

STA.

TO STA.

F.A.P.

RTE.

312

SECTION

130B-1

COUNTY

JACKSON

TOTAL

SHEETS

83

SHEET

NO.

8

CONTRACT NO. 78967

ILLINOIS FED. AID PROJECT

MODEL: Quantities Sheet 6
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SUMMARY OF QUANTITIES				CONSTR. CODE
				0010
				80% FED 20% STATE
				BRIDGE
				PR SN 039-0083
				RURAL
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	
70400125	PINNING TEMPORARY CONCRETE BARRIER	EACH	66	66
70400200	RELOCATE TEMPORARY CONCRETE BARRIER	FOOT	463	463
70600251	IMPACT ATTENUATORS, TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	EACH	2	2
70600352	IMPACT ATTENUATORS, RELOCATE (NON- REDIRECTIVE,NARROW), TEST LEVEL 3	EACH	2	2
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	4	4
* 78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	2130	2130
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	4	4
* 78200010	BARRIER WALL REFLECTORS, TYPE B	EACH	12	12
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	11	11
78300201	PAVEMENT MARKING REMOVAL - GRINDING	SQ FT	425	425
* 86200300	UNINTERRUPTABLE POWER SUPPLY, EXTENDED	EACH	1	1
X5080530	BAR TERMINATORS	EACH	614	614
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1
* SPECIALTY ITEM				

REV - MS



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& CONSULTING

USER NAME = ShelbySkinner

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PLOT SCALE = \$SCALE\$

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PLOT DATE = 11/25/2025

DATE -

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL 3

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

F.A.P.

RTE.

SECTION

COUNTY

TOTAL

SHEETS

SHEET

NO.

312

130B-1

JACKSON

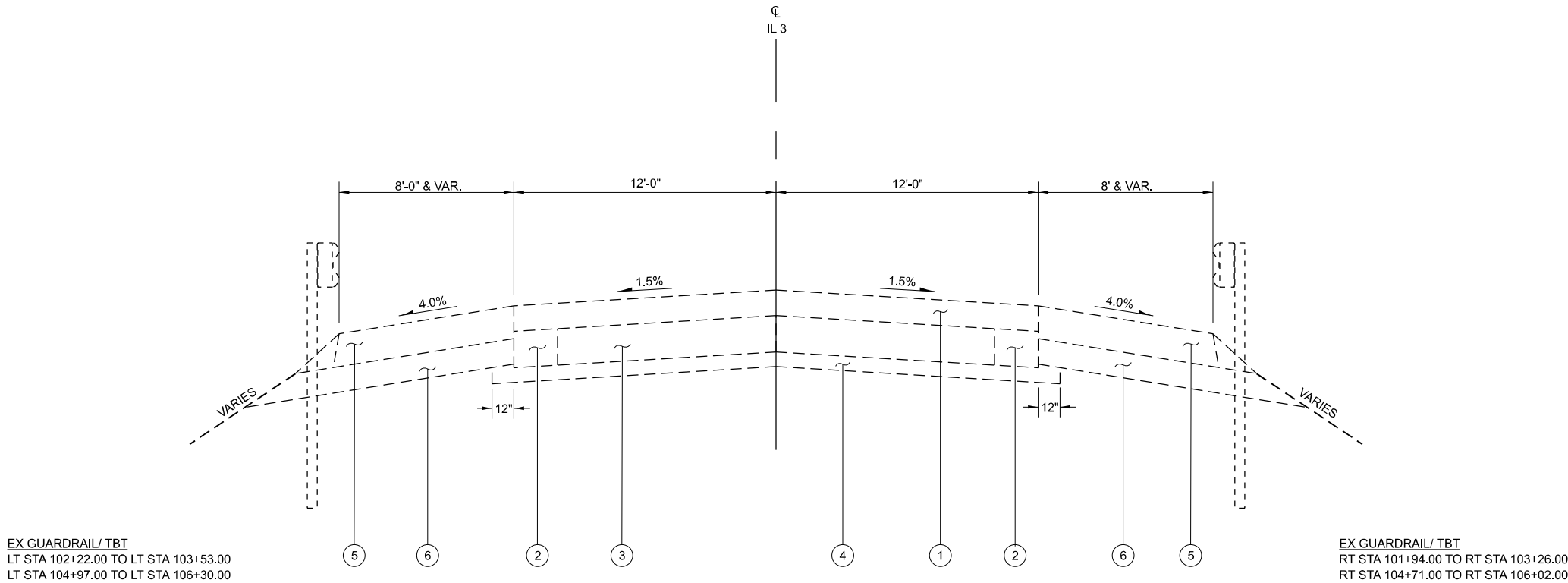
83

9

CONTRACT NO. 78967

ILLINOIS FED. AID PROJECT

MODEL - Existing Typical Section 1
FILE NAME - g:\dot\hms\paw\city\com\hms\pw\dot\Documents\BFW\PROJECTS\2025 PROJECTS\25152 - IDOT D9 PTB\99-038 W04\20 IL 3 Bridge Replacement\25152\DOT\CAO_Sheets\0978967-sh\Typical.dgn



IL 3 EXISTING TYPICAL SECTION

APPROACH PAVEMENT

STA 101+92.00 TO STA 103+09.52
STA 103+09.52 TO STA 103+27.42 - EX PCC BRIDGE APPROACH PAVEMENT WITH 2.25" HMA SURF. (24.00' WIDE)
STA 103+27.42 TO STA 104+39.75 - EX PCC BRIDGE APPROACH PAVEMENT WITH 2.25" HMA SURF. (33.67' WIDE)
STA 104+39.75 TO STA 104+84.25 - EX BRIDGE
STA 104+84.25 TO STA 104+96.58 - EX PCC BRIDGE APPROACH PAVEMENT WITH 2.25" HMA SURF. (33.67' WIDE)
STA 104+96.58 TO STA 105+14.48 - EX PCC BRIDGE APPROACH PAVEMENT WITH 2.25" HMA SURF. (24.00' WIDE)
STA 105+14.48 TO STA 106+32.00

EXISTING LEGEND

- 1 BITUMINOUS CONCRETE SURFACE COURSE, 7"
- 2 PCC BASE COURSE WIDENING, 10"
- 3 PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- 4 SUB-BASE GRANULAR MATERIAL, 4"
- 5 HMA SHOULDER, 9"
- 6 SUB-BASE GRANULAR MATERIAL, 7"



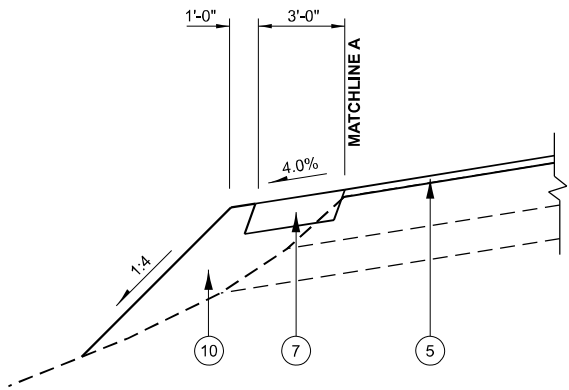
USER NAME	= sskinner	DESIGNED	-	REVISED	-
DRAWN	-	REVIS	-	REVIS	-
PLOT SCALE	= 0.16666633 ' / in.	CHECKED	-	REVISED	-
PLOT DATE	= 11/12/2025	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION		IL 3	
SCALE: N.T.S.	SHEET 1 OF 2 SHEETS	STA. 101+92.00	TO STA. 106+32.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	1308-1	JACKSON	83	10
		CONTRACT NO. 78967		
		ILLINOIS	FED. AID PROJECT	

MODEL: Proposed Typical Section 1
FILE NAME: g:\downstream\factory\com\hines\pww\Documents\BFW\PROJECTS\2025 PROJECTS\25152 - IDOT D9 PTB\99-038 WOV\20 IL 3 Bridge Replacement\25152\IDOT\CAO_Sheets\0978967-shl-Typical.dgn



MATCHLINE A

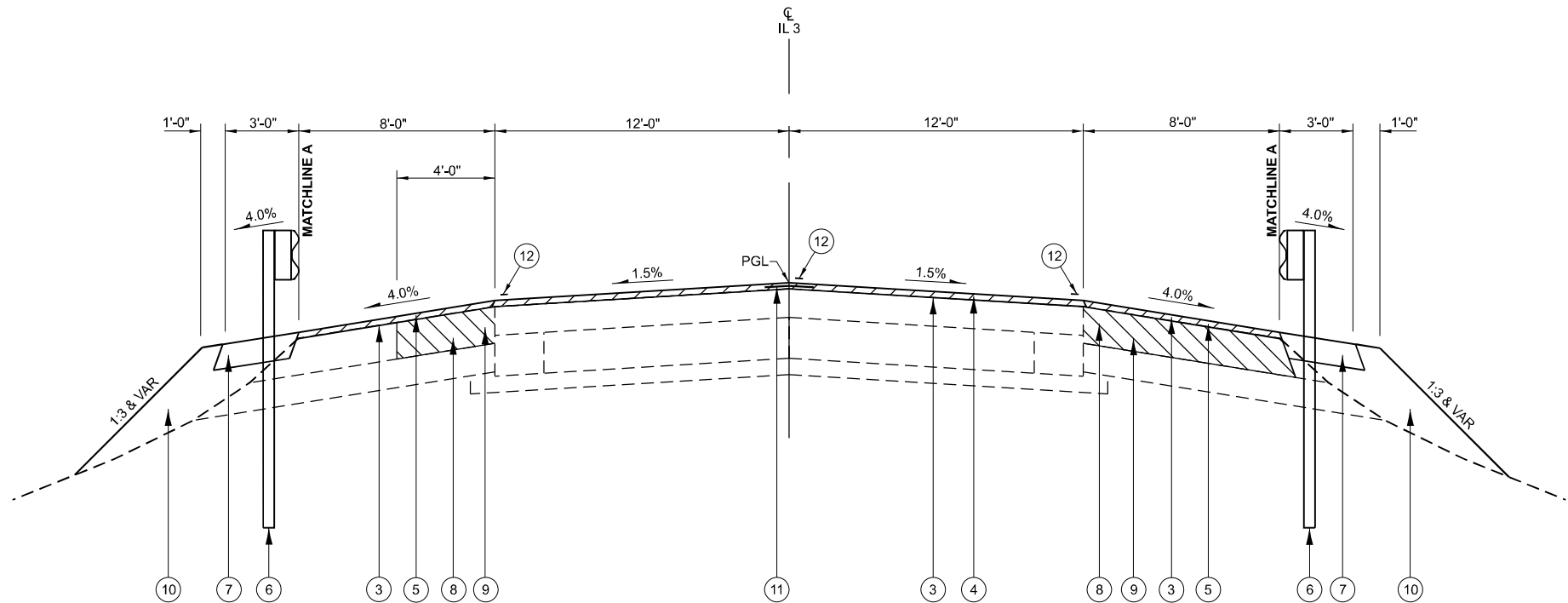
APPROACH PAVEMENT - SHOULDER

LT STA 102+40.00 TO LT STA 102+47.26
LT STA 102+47.26 TO LT STA 103+22.14 - PR GUARDRAIL / TBT
LT STA 105+35.42 TO LT STA 106+32.38 - PR GUARDRAIL / TBT
LT STA 106+32.38 TO LT STA 106+40.00

RT STA 101+85.00 TO RT STA 101+91.67
RT STA 101+91.67 TO RT STA 102+88.58 - PR GUARDRAIL / TBT
RT STA 105+01.86 TO RT STA 105+76.74 - PR GUARDRAIL / TBT
RT STA 105+76.74 TO RT STA 105+85.00

PROPOSED LEGEND

- 1 PAVEMENT CONNECTOR (PCC) FOR BRIDGE APPROACH SLAB (STD 420401)
- 2 SUB-BASE GRANULAR MATERIAL, TYPE B, 6"
- 3 HMA SURFACE REMOVAL, 1½"
- 4 HMA SURFACE COURSE, 1½"
- 5 HMA SHOULDERS, 1½"
- 6 GUARDRAIL / TERMINAL (SEE PLANS & SCHEDULES FOR LOCATIONS)
- 7 HMA SHOULDERS, 6"
- 8 PAVED SHOULDER REMOVAL
- 9 HMA SHOULDERS, 10"
- 10 EARTH EMBANKMENT
- 11 LONGITUDINAL JOINT SEALANT
- 12 PAVEMENT MARKING, LINE

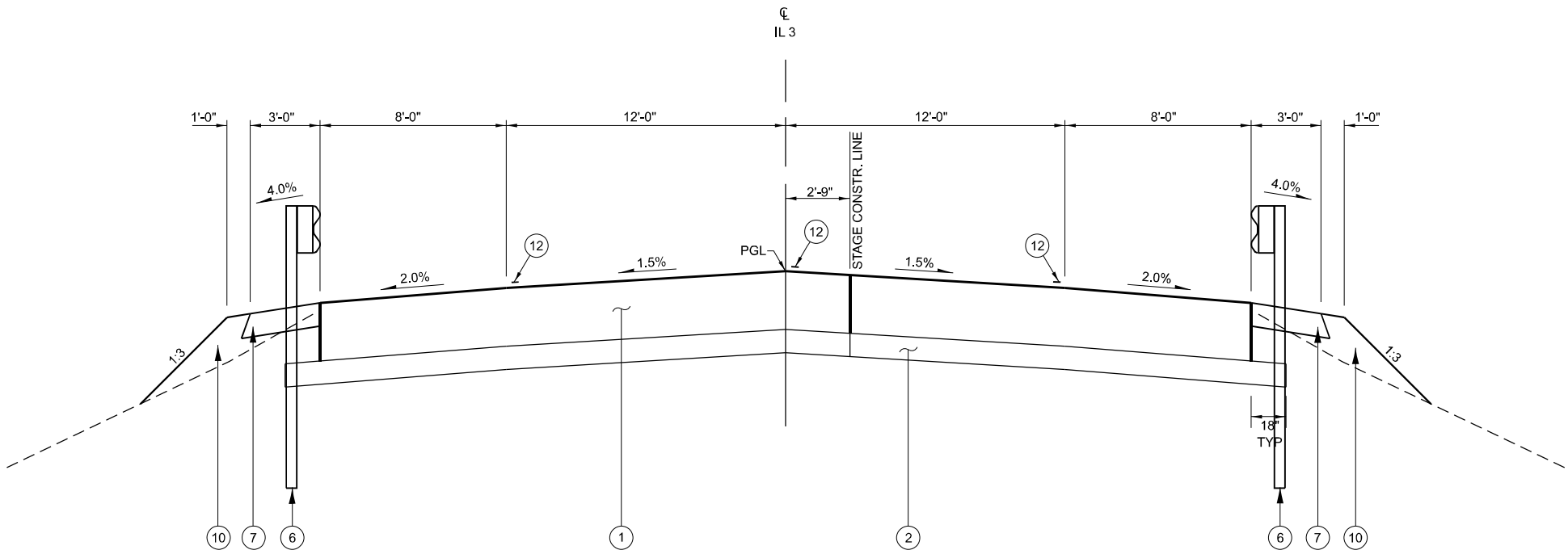


IL 3 PROPOSED TYPICAL SECTION

PAVEMENT - GUARDRAIL

STA 101+92.00 TO STA 102+73.58
STA 105+50.42 TO STA 106+32.00

NOTE: SEE TRAFFIC CONTROL PLANS FOR
SHOULDER REMOVAL AND
REPLACEMENT LOCATIONS.



IL 3 PROPOSED TYPICAL SECTION

PCC CONNECTOR PAVEMENT

STA 102+73.58 TO STA 103+03.90 - PR PCC PAVEMENT CONNECTOR (SEE STD 420401)
STA 103+03.90 TO STA 105+20.10 - BRIDGE OMISSION
STA 105+20.10 TO STA 105+50.42 - PR PCC PAVEMENT CONNECTOR (SEE STD 420401)



USER NAME	= sskinner	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
PLOT SCALE	= 0.16666633 ' / in.	CHECKED	-	REVISED	-
PLOT DATE	= 11/12/2025	DATE	-	REVISED	-

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTION
IL 3**

SCALE: N.T.S. SHEET 2 OF 2 SHEETS STA. 101+92.00 TO STA. 106+32.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	11
CONTRACT NO. 78967				
ILLINOIS FED. AID PROJECT				

SCHEDULE OF QUANTITIES

TREE REMOVAL SCHEDULE				
LOCATION				TREE REMOVAL, ACRES
LT/RT	STA	TO	STA	(ACRE)
JACKSON COUNTY				
PRE-STAGE 1				
IL 3				
RT	102+55.00		103+41.00	0.011
RT	103+63.00		104+46.00	0.037
LT	103+76.00		104+81.00	0.050
LT	105+22.00		105+98.00	0.006
TOTAL =				0.1

MODEL: Schedule Sheet 1
FILE NAME: g:\bentley\dwg\wmspw\Documents\BFW\PROJECTS\2035 PROJECTS\25152 - DOT D9 PTB\99-038 W04\20 IL 3 Bridge Replacement\25152\DOT\CAO_Sheets\0978967-sh-Schedule.dgn

SCHEDULE OF QUANTITIES

EARTHWORK SCHEDULE													
LOCATION				EARTH EXCAVATION (CUT FROM CROSS SECTIONS)	CHANNEL EXCAV (ASSUMED NOT FIT FOR EMBANKMENT PURPOSES)	SHRINKAGE FACTOR FOR EARTH EXCAVATION	EARTH EXCAVATION ADJUSTED FOR EMBANKMENT	EMBANKMENT (CUT FROM CROSS SECTIONS)	EARTHWORK BALANCE WASTE (+) SHORTAGE (-)	SHRINKAGE FACTOR FOR BORROW EXCAVATION	BORROW EXCAVATION	FURNISHED EXCAVATION (PAY ITEM SINCE BORROW IS < 5000 CY PER D9 POLICY)	
LT/RT	STA	TO	STA	(CU YD)	(CU YD)	(%)	(CU YD)	(CU YD)	(CU YD)	(%)	(CU YD)	(CU YD)	
JACKSON COUNTY													
STAGE 1													
IL 3													
RT	101+00.00		103+38.00	4.4	0.0	25%	3.3	38.3	-35.0	25%	46.7	35.0	
RT	104+48.00		107+00.00	1.7	0.0	25%	1.3	13.8	-12.5	25%	16.7	12.5	
WORTHEN BAYOU													
	8+60.00		10+50.00	0.0	648.7	25%	0.0	41.1	-41.1	25%	54.8	41.1	
SUB-TOTAL =				6.1	648.7	25%	4.6	93.2	-88.7	25%	118.2	88.7	
STAGE 2													
IL 3													
LT	101+00.00		103+95.00	3.5	0.0	25%	2.6	43.2	-40.5	25%	54.0	40.5	
LT	104+86.00		107+00.00	3.0	0.0	25%	2.2	6.5	-4.3	25%	5.7	4.3	
WORTHEN BAYOU													
	9+50.00		11+50.00	0.0	758.0	25%	0.0	5.6	-5.6	25%	7.4	5.6	
SUB-TOTAL =				6.5	758.0	25%	4.9	55.2	-50.3	25%	67.1	50.3	
TOTAL =													
				13	1407	25%	9	148	-139	25%	185	139	
NOTE: EXCAVATION REQUIRED FOR THE SUBSTRUCTURE AND RIPRAP ARE NOT INCLUDED IN THIS SCHEDULE. STRUCTURE EXCAVATION WILL BE PAID FOR SEPARATELY; HOWEVER, EXCAVATION FOR RIPRAP WILL NOT BE PAID FOR SEPARATELY, BUT SHOULD BE INCLUDED IN THE BID PRICE OF THE PAY ITEMS.									FURNISHED EXCAVATION				139 CU YDS
									EARTH EXCAVATION =				13 CU YDS
									CHANNEL EXCAVATION =				1407 CU YDS
QUANTITIES TO BE NOTED: STRUCTURE EXCAVATION = 560 CY ESTIMATED EARTH GENERATED FROM RIPRAP (THEORETICAL; FROM TOP LINE OF RIPRAP) = (27 SY X 12" X 1/36") + (1242 SY X 22" X 1/36") = 768 CY TOTAL ESTIMATED WASTE (THEORETICAL) = 560 CY + 768 CY + 1407 CY = 2735 CY													

MODEL: Schedule Sheet 2
FILE NAME: g:\downmspw\benley.com\hwnmspw\1\Documents\BFW\PROJECTS\2035 PROJECTS\25152 - IDOT D9 PTB\199-038 W04#20 IL 3 Bridge Replacement\25152\IDOT\CAO_Sheets\0978967-sh\Schedule.dgn

SCHEDULE OF QUANTITIES

TEMPORARY EROSION CONTROL & SEEDING SCHEDULE													
LOCATION				TEMPORARY EROSION CONTROL SEEDING	PERIMETER EROSION BARRIER	STONE RIPRAP, CLASS A3	EROSION CONTROL BLANKET	SEEDING, CLASS 2	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	AGRICULTURA L GROUND LIMESTONE	MULCH, METHOD 2
LT/RT	STA	TO	STA	(POUND)	(FOOT)	(SQ YD)	(SQ YD)	(ACRE)	(POUND)	(POUND)	(POUND)	(ACRE)	(ACRE)
JACKSON COUNTY													
PRE- STAGE 1													
IL 3													
RT	102+55.00		103+41.00	10.0									
RT	103+63.00		104+46.00	10.0									
LT	103+76.00		104+81.00	10.0									
LT	105+22.00		105+98.00	10.0									
SUB-TOTAL =				40.0									
STAGE 1													
IL 3													
RT	101+00.00		103+08.00	10.0	85	10.2	0	0.04	3.8	3.8	3.8	0.1	0.04
RT	104+55.00		107+00.00	10.0	140	14.4	0	0.03	2.5	2.5	2.5	0.1	0.03
WORTHEN BAYOU													
	8+60.00		10+50.00	10.0	0		337	0.06	5.3	5.3	5.3	0.1	0
SUB-TOTAL =				30.0	225	24.6	337	0.13	11.65	11.65	11.65	0.26	0.07
STAGE 2													
IL 3													
LT	101+00.00		103+95.00	10.0	150	17.9	0	0.05	4.1	4.1	4.1	0.1	0.05
LT	104+86.00		107+00.00	10.0	100	11.0	0	0.02	1.5	1.5	1.5	0.0	0.02
WORTHEN BAYOU													
	9+50.00		11+50.00	10.0	0		473	0.10	9.0	9.0	9.0	0.2	0
SUB-TOTAL =				30.0	250	28.9	473	0.16	14.6	14.6	14.6	0.3	0.06
TOTAL =													
				100	475	53	810	0.3	26	26	26	1	0.1

MODEL - Schedule Sheet 3
FILE NAME - g:\downmspw\benley.com\hmsesgw\Documents\BFW\PROJECTS\2035 PROJECTS\25152 - DOT D9 PTB\99-038 WQ#20 IL 3 Bridge Replacement\25152\DOT\CAO_Sheets\0978967-sh-Schedule.dgn

SCHEDULE OF QUANTITIES

PAVING SCHEDULE																					
LOCATION			LENGTH	PAVEMENT/ SHOULDER WIDTH (AVERAGE)	AREA	COMMENTS	PAVED SHOULDER REMOVAL	PAVEMENT REMOVAL	HMA SHLDS, 6"	HMA SHLDS, 10"	SUBBASE GRANULAR MATERIAL, TYPE B 6"	PAVT CONN (PCC) FOR BRIDGE APPR SLAB	WELDED WIRE REIN	PROTECT. COAT	HMA SURF REM, 1.5"	TEMP RAMP	POLY BIT MATLS (TACK COAT)	LONG. JOINT SEALANT	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "C", N70	HOT-MIX ASPHALT SHLDS	
LT/RT	STATION	TO	STATION	(FOOT)	(FOOT)	(SQ FT)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(SQ YD)	(POUND)	(FOOT)	(TON)	(TON)	
JACKSON COUNTY																					
IL 3																					
PRE-STAGE 1																					
LT	101+43.25		103+54.00	210.75	4.0	843.0	REM & REPL HMA SHLD, 4' WIDE NEXT TO EOP FOR S-1 TRAFFIC	93.7		93.7											
LT	104+96.00		106+55.85	159.85	4.0	639.4	REM & REPL HMA SHLD, 4' WIDE NEXT TO EOP FOR S-1 TRAFFIC	71.0		71.0											
STAGE 1																					
RT	102+73.58		103+41.00	59.34	16.75	994.0	REMOVAL FROM 1.25' RT TO RT OUTSIDE EOP		110.4												
RT	104+82.00		105+50.42	76.50	16.75	1281.3	REMOVAL FROM 1.25' RT TO RT OUTSIDE EOP		142.4												
RT	102+73.58		103+03.90	20.78	17.25	358.4	CONSTRUCTION FROM 2.75' RT TO RT OUTSIDE EOP				42.3	39.8	39.8	39.8							
RT	105+20.10		105+50.42	39.86	17.25	687.6	CONSTRUCTION FROM 2.75' RT TO RT OUTSIDE EOP				84.0	76.4	76.4	76.4							
RT	101+12.25		102+73.58	161.33	8.00	1290.6	REM & REPL HMA SHLD, 8' WIDE NEXT TO EOP FOR S-2 TRAFFIC	143.4		143.4											
RT	105+50.42		106+89.75	139.33	8.00	1114.6	REM & REPL HMA SHLD, 8' WIDE NEXT TO EOP FOR S-2 TRAFFIC	123.8		123.8											
RT	101+85.00		102+88.58	103.58	3.00	310.7	NEW HMA SHLD UNDER GUARDRAIL; 20.0' TO 23.0' RT			34.5											
RT	105+01.86		105+85.00	83.14	3.00	249.4	NEW HMA SHLD UNDER GUARDRAIL; 20.0' TO 23.0' RT			27.7											
STAGE 2																					
LT	102+73.58		103+41.00	74.45	19.25	1433.1	REMOVAL FROM 1.25' RT TO LTOUTSIDE EOP		159.2												
LT	104+82.00		105+50.42	61.39	19.25	1181.8	REMOVAL FROM 1.25' RT TO LTOUTSIDE EOP		131.3												
LT	102+73.58		103+03.90	37.56	22.75	854.4	CONSTRUCTION FROM 2.75' RT TO LT OUTSIDE EOP				102.6	94.9	94.9	94.9							
LT	105+20.10		105+50.42	23.08	22.75	525.2	CONSTRUCTION FROM 2.75' RT TO LT OUTSIDE EOP				60.9	58.4	58.4	58.4							
LT	102+40.00		103+22.14	82.14	3.00	246.4	NEW HMA SHLD UNDER GUARDRAIL; 20.0' TO 23.0' RT			27.4											
LT	105+35.42		106+40.00	104.58	3.00	313.7	NEW HMA SHLD UNDER GUARDRAIL; 20.0' TO 23.0' RT			34.9											
STAGE 3																					
LT/RT	101+92.00		102+73.58	81.58	12.0/8.0		PAVEMENT & SHOULDER MILLING & RESURFACING								362.6	26.7	261.1	81.6	18.3	12.2	
LT/RT	105+50.42		106+32.00	81.58	12.0/8.0		PAVEMENT & SHOULDER MILLING & RESURFACING								362.6	26.7	261.1	81.6	18.3	12.2	
GRAND TOTAL =								432	543	124	432	290	270	270	270	725	53	522	163	37	24

MODEL: Schedule Sheet 4
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SCHEDULE OF QUANTITIES

GUARDRAIL SCHEDULE										
LOCATION				GUARDRAIL REMOVAL	TRAFFIC BARRIER TERMINAL, TYPE 6	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6' POSTS	TRAFFIC BARRIER TERMINAL TYPE 1 SPECIAL (TANGENT)	TERMINAL MARKER - DIRECT APPLIED	GUARDRAIL REFLECTOR TYPE A	BARRIER WALL REFLECTORS, TYPE B
LT/RT	STATION	TO	STATION	(FOOT)	(EACH)	(FOOT)	(EACH)	(EACH)	(EACH)	(EACH)
JACKSON COUNTY										
IL 3										
RT	101+91.62		102+41.62	134.0			1	1	1	
RT	102+41.62		102+66.62			25.0				
RT	102+66.62		103+06.02		1					
LT	102+47.26		102+97.26	133.0			1	1	1	
LT	102+97.26		102+97.26			0.0				
LT	102+97.26		103+36.66		1					
RT	103+06.02		104+87.34							6
LT	103+36.66		105+17.98							6
RT	104+87.34		105+26.74	133.0	1				1	
RT	105+26.74		105+26.74			0.0				
RT	105+26.74		105+76.74				1	1		
LT	105+17.98		105+57.38	132.0	1				1	
LT	105+57.38		105+82.38			25.0				
LT	105+82.38		106+32.38				1	1		
TOTAL =				532	4	50	4	4	4	12

MODEL: Schedule Sheet 5
FILE NAME: g:\downs\pw\benley.com\hwns\pw\Documents\BFW\PROJECTS\2035 PROJECTS\25152 - IDOT D9 PTB\99-038 W04\20 IL 3 Bridge Replacement\25152\DOT\CAO_Sheets\0978967-sh-Schedule.dgn

SCHEDULE OF QUANTITIES

TEMPORARY TRAFFIC CONTROL SCHEDULE													
LOCATION				LENGTH	TEMPORARY BRIDGE TRAFFIC SIGNALS	TEMPORARY RUMBLE STRIPS	PAVEMENT MARKING REMOVAL - GRINDING	RAISED REFL PVT MK REMOVAL	TEMPORARY CONCRETE BARRIER	RELOCATE TEMPORARY CONCRETE BARRIER	PINNING TEMPORARY CONCRETE BARRIER	IMPACT ATTENUATORS , TEMPORARY (NON- REDIRECTIVE, NARROW), TEST LEVEL 3	IMPACT ATTENUATORS , RELOCATE (NON- REDIRECTIVE, NARROW), TEST LEVEL 3
LT/RT	STATION	TO	STATION	(FOOT)	(EACH)	(EACH)	(SQ FT)	(EACH)	(FOOT)	(FOOT)	(EACH)	(EACH)	(EACH)
JACKSON COUNTY													
IL 3					1	6							
STAGE 1													
	99+12.00		108+27.00	915.00			425.3	11					
	101+43.20		101+68.20									1	
	101+68.20		106+30.80	462.60					462.5		42		
	106+30.80		106+55.80									1	
STAGE 2													
	99+12.00		108+27.00	915.00			0	0					
	100+93.70		101+18.70										1
	101+18.70		106+80.30	561.60					100.0	462.5	24		
	106+80.30		107+05.30										1
STAGE 3													
	99+12.00		108+27.00	915.00			0						
TOTAL =													
					1	6	425	11	563	463	66	2	2

MODEL - Schedule Sheet 6
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USER NAME = ShelbySkinner
PLOT SCALE = \$SCALE\$
PLOT DATE = 11/24/2025

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES
IL 3

SCALE: N.T.S. SHEET 6 OF 7 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	1308-1	JACKSON	83	17
CONTRACT NO. 78967				
ILLINOIS FED. AID PROJECT				

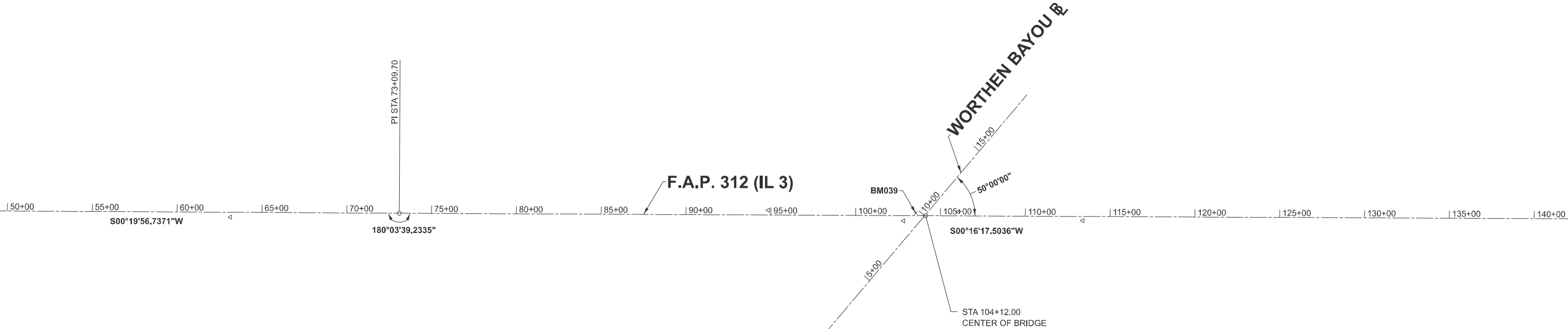
SCHEDULE OF QUANTITIES

FINAL PAVEMENT MARKING SCHEDULE									
LOCATION				LENGTH	SHORT TERM PAVEMENT MARKING	SHORT TERM PAVEMENT MARKING REMOVAL	PAINT PAVEMENT MARKING - LINE 4" (SKIP DASH, YELLOW)	PAINT PAVEMENT MARKING - LINE 4" (SOLID, WHITE)	PAINT PAVEMENT MARKING - LINE 4" (SOLID, YELLOW)
LT/RT	STATION	TO	STATION	(FOOT)	(FOOT)	(SQ FT)	(FOOT)	(FOOT)	(FOOT)
JACKSON COUNTY									
IL 3									
AFTER STAGE 2									
	99+12.00		108+27.00	915.00	146.8				
STAGE 3									
	99+12.00		108+27.00	915.00	22.8	46.5	228.8	1830.0	70.0
TOTAL =					170	47	230	1830	70
							2130		

MODEL: Schedule Sheet 7
FILE NAME: g:\downs\pw.bentley.com\hmspw\j\Documents\BFW\PROJECTS\2035 PROJECTS\25152 - IDOT D9 PTB\99+038 W04+20 IL 3 Bridge Replacement\25152\IDOT\CAO_Sheets\0978967-sh-Schedule.dgn

CENTERLINE POINTS				
LOCATION:	NORTHING	EASTING	STATION	DESCRIPTION
IL 3	2499963.099	397316.874	45+23.72	POT STA. IL 3 EXCL
	2499946.935	394530.943	73+09.70	PI STA. IL 3 EXCL
	2499905.041	385690.880	161+49.86	POT STA. IL 3 EXCL

LIST OF BENCHMARKS		
BENCHMARK #	COMMENTS/DESCRIPTIONS	NAVD 88 DATUM
BM039	EL 365.720	N 391486.778' E 2499948.058'

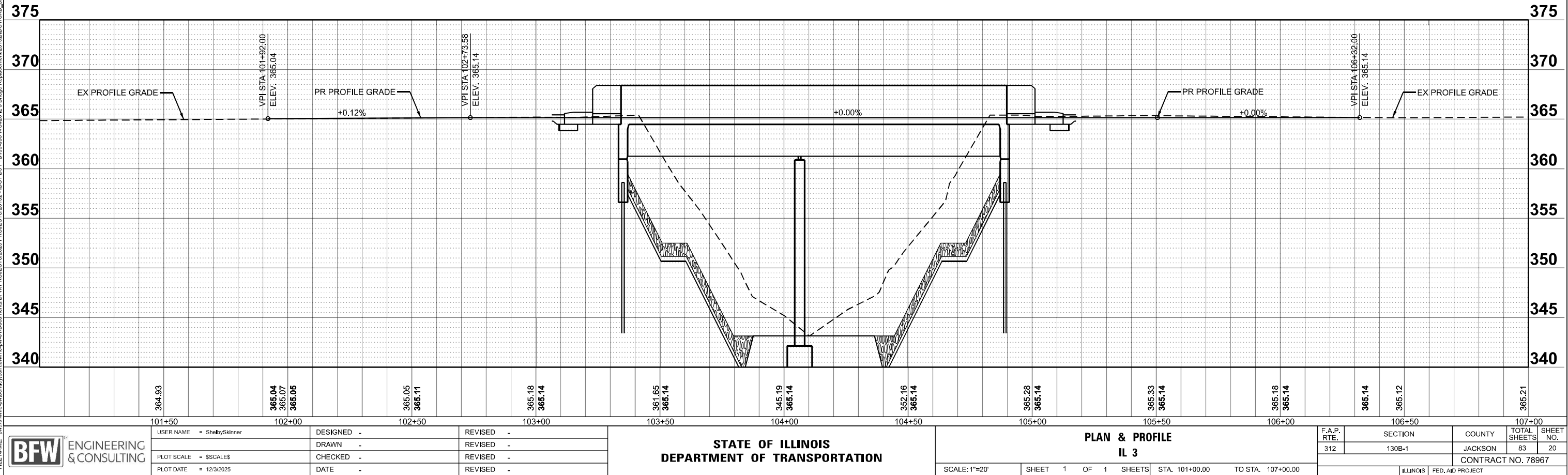
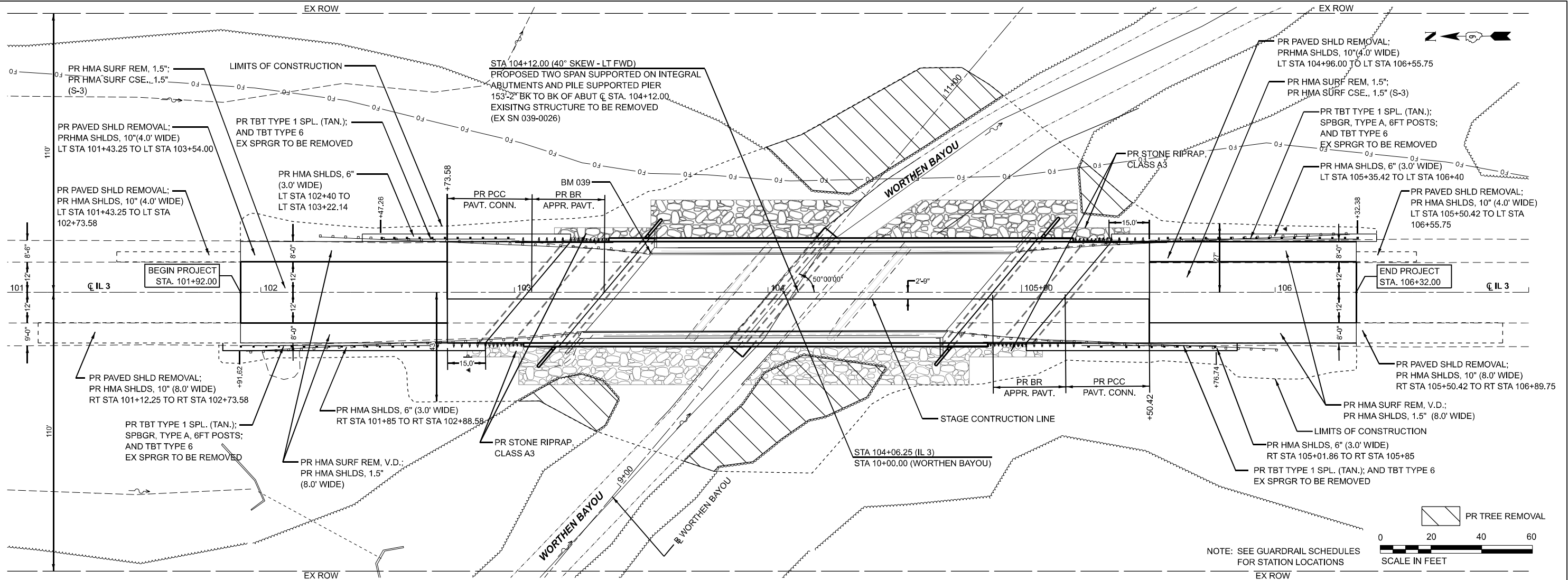


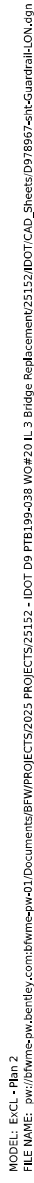
COORDINATE SYSTEM : NAD83 / 2011 ADJUSTMENT WITH GEOID 18,
NAVD 88 DATUM VERTICAL. ILLINOIS STATE PLANE, EAST ZONE
GRID COORDINATES

MODEL: Sheet1
FILE NAME: p:\b\hms\p\w\benley.com\hms\p\w\1\Documents\BFW\PROJECTS\2035 PROJECTS\25152 - IDOT D9 PTB\99-038 W04\20 IL 3 Bridge Replacement\25152\DOT\CAO_Sheets\0978967-shl-ATB.dgn

	USER NAME = ShelbySkinner		DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ALIGNMENT, TIES & BENCHMARKS IL 3				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			DRAWN -	REVISED -						312	130B-1	JACKSON	83	19
	PLOT SCALE = \$SCALE\$		CHECKED -	REVISED -		SCALE: 1" = 300'				CONTRACT NO. 78967				
	PLOT DATE = 11/26/2025		DATE -	REVISED -		SHEET 1 OF 1 SHEETS		STA. 50+00.00 TO STA. 140+00.00		ILLINOIS FED. AID PROJECT				

MODEL: E:\CL4 - Plan 2-1
FILE NAME: p:\work\mcs\benfield\com\hmc\paw-41\Documents\BFW\PROJECTS\2025 PROJECTS\152- DOT Dg PTB\190-038 WORTHEN IL 3 Bridge Replacement\25152\DOT\CAD_Sheets\DOT25887-IL3Plan&Profile.dgn





USER NAME = sskinner	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 0.16666633" / in.	CHECKED -	REVISED -
PLOT DATE = 11/12/2025	DATE -	REVISED -

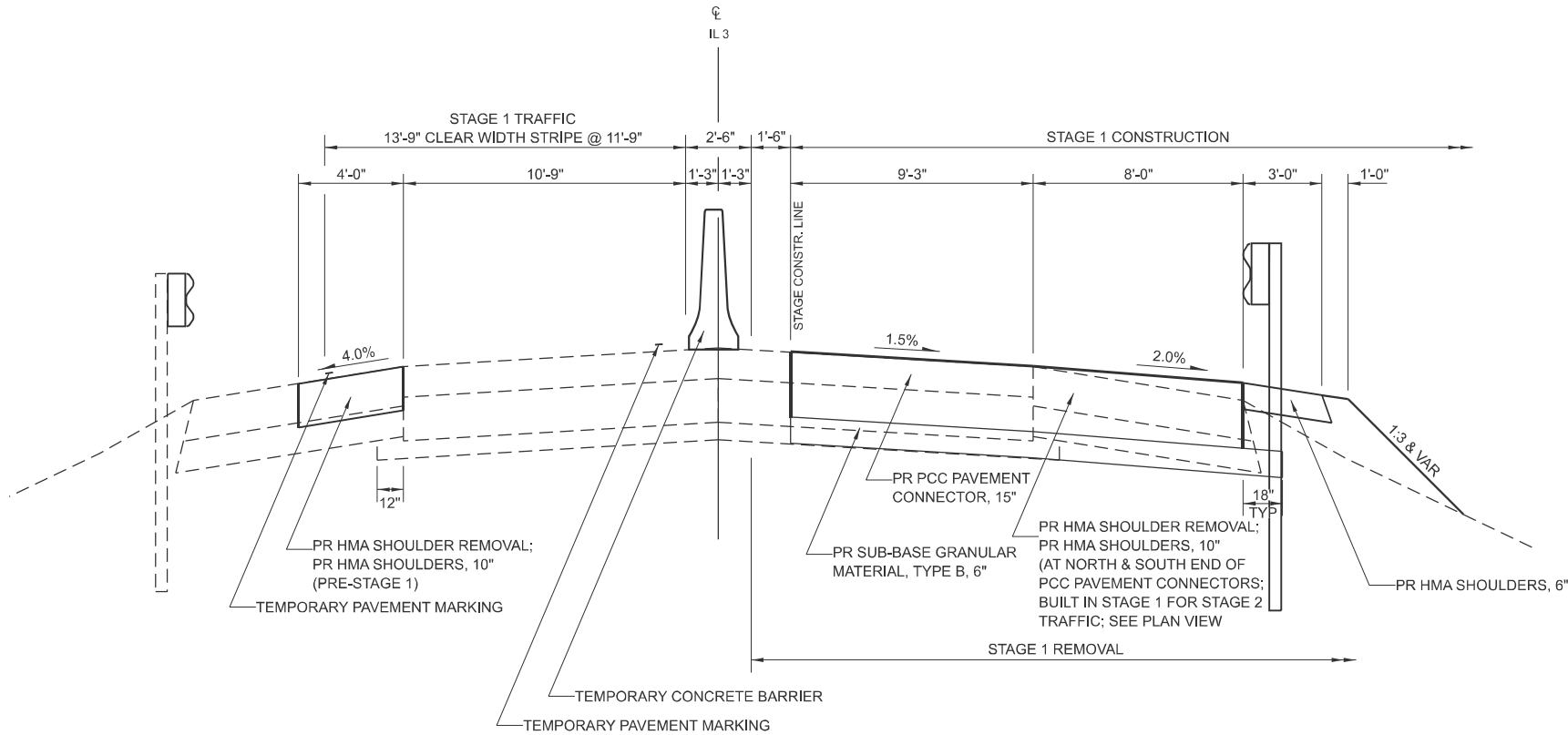
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL LAYOUT PLAN
IL 3

SCALE: 1"=20'	SHEET 1 OF 1 SHEETS	STA. 101+00.00 TO STA. 107+00.00
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	21
		CONTRACT NO. 78967		
ILLINOIS		FED. AID PROJECT		

MODEL: MOT - Stage 1
FILE NAME: p:\dot\mns-gw\benley.com\hms-gw\1\Documents\BFW\PROJECTS\2025\PROJECTS\25152 - IDOT D9 PTB\99-038 WQF\20 IL 3 Bridge Replacement\25152\IDOT\CAO_Sheets\0978967-sh-Maintenance of Traffic.dgn



STAGE 1 CONSTRUCTION
(LOOKING SOUTH)

WIDE LOAD SIGN



W12-I103 (48 X 48)
SERIES D ALPHABET, NO BORDER,
BLACK ON WHITE

NOTES FOR WIDE LOAD SIGN

THE CONTRACTOR SHALL FURNISH THE POST AND ERECT THE SIGN AT THE NECESSARY LOCATION AS DIRECTED BY THE ENGINEER. THE SIGN SHALL BE POST MOUNTED.

THE ABOVE NOTED WORK, INCLUDING SIGNS, POSTS, HARDWARE, AND LABOR SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE, EACH, FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701321, AND NO OTHER COMPENSATION WILL BE ALLOWED.

FOR WORK ON ALL STRUCTURES, THE WIDTH SHOWN ON THE W12-I103 SIGN SHALL BE 12'-3" (STAGE 1); 12'-9" (STAGE 2) OR DIRECTED BY THE ENGINEER. THE "X" MILES AHEAD WILL BE DETERMINED BY THE ENGINEER.

STAGE 1 CONSTRUCTION

- UTILIZE TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 AND 701321.
- PLACE TEMPORARY TRAFFIC CONTROL AS SHOWN ON THE DETAILS.
- INSTALL TEMPORARY TRAFFIC SIGNALS PRIOR TO CLOSING THE SOUTHBOUND LANE OF THE ROADWAY. SEE "TRAFFIC CONTROL NOTES" FOR MORE DETAILS.
- UTILIZE TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 TO DIRECT TRAFFIC TO THE NORTHBOUND / EAST SIDE OF IL 3. CONSTRUCT TEMPORARY SHEET PILING AT THE NORTH AND SOUTH SIDE OF THE EXISTING STRUCTURE. REMOVE THE SOUTHBOUND SIDE OF THE STRUCTURE.
- CONSTRUCT THE SOUTHBOUND SIDE OF THE BRIDGE STRUCTURE, EMBANKMENT AT THE NORTH AND SOUTH SIDES OF THE PROPOSED STRUCTURE, APPROACH PAVEMENT, AND PCC PAVEMENT CONNECTORS.

TRAFFIC CONTROL NOTES

- THE CONTRACTOR WILL HAVE THE OPTION TO USE MICROWAVE DETECTION FOR USE WITH THE TEMPORARY TRAFFIC SIGNALS IN ACCORDANCE WITH HIGHWAY STANDARD 701321.
- ALL TEMPORARY PAVEMENT MARKINGS, DRUMS, ETC. SHALL BE PLACED PRIOR TO PLACING TEMPORARY CONCRETE BARRIERS.

NOTES FOR TRAFFIC CONTROL & PROTECTION STANDARD 701321

ALL TC&P ITEMS SHOWN IN THE DETAILS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE, EACH FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701321, EXCEPT FOR SEPARATE PAY ITEMS INCLUDED IN THIS CONTRACT. NO OTHER COMPENSATION WILL BE ALLOWED.

- ALL SIGNAGE AS SHOWN ON THE HIGHWAY STANDARD AND ADDITIONAL SIGNAGE SHOWN ON THE STAGE 1 DETAILS. THE NOTED WORK SHALL INCLUDE SIGNS, POSTS, HARDWARE AND LABOR. THE CONTRACTOR SHALL ERECT THE SIGNS AT THE LOCATIONS ON THE DETAIL AND AT LOCATIONS DIRECTED BY THE ENGINEER.
- TEMPORARY PAVEMENT MARKING IS SHOWN ON THE STANDARD AND DETAILS. THE COST OF TEMPORARY PAVEMENT MARKING AND ITS REMOVAL WILL BE PAID FOR SEPARATELY AS INCLUDED IN THE CONTRACT PLANS.



ENGINEERING
& CONSULTING

USER NAME = ShelbySkinner

PLOT SCALE = \$SCALE\$

PLOT DATE = 11/24/2025

DESIGNED -

DRAWN -

CHECKED -

DATE -

REVISED -

REVISED -

REVISED -

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 TRAFFIC CONTROL PLANS
IL 3

SCALE: N.T.S.

SHEET 1

OF 4

SHEETS

STA.

TO STA.

F.A.P.

RTE.

SECTION

COUNTY

TOTAL

SHEET

312

1308-1

JACKSON

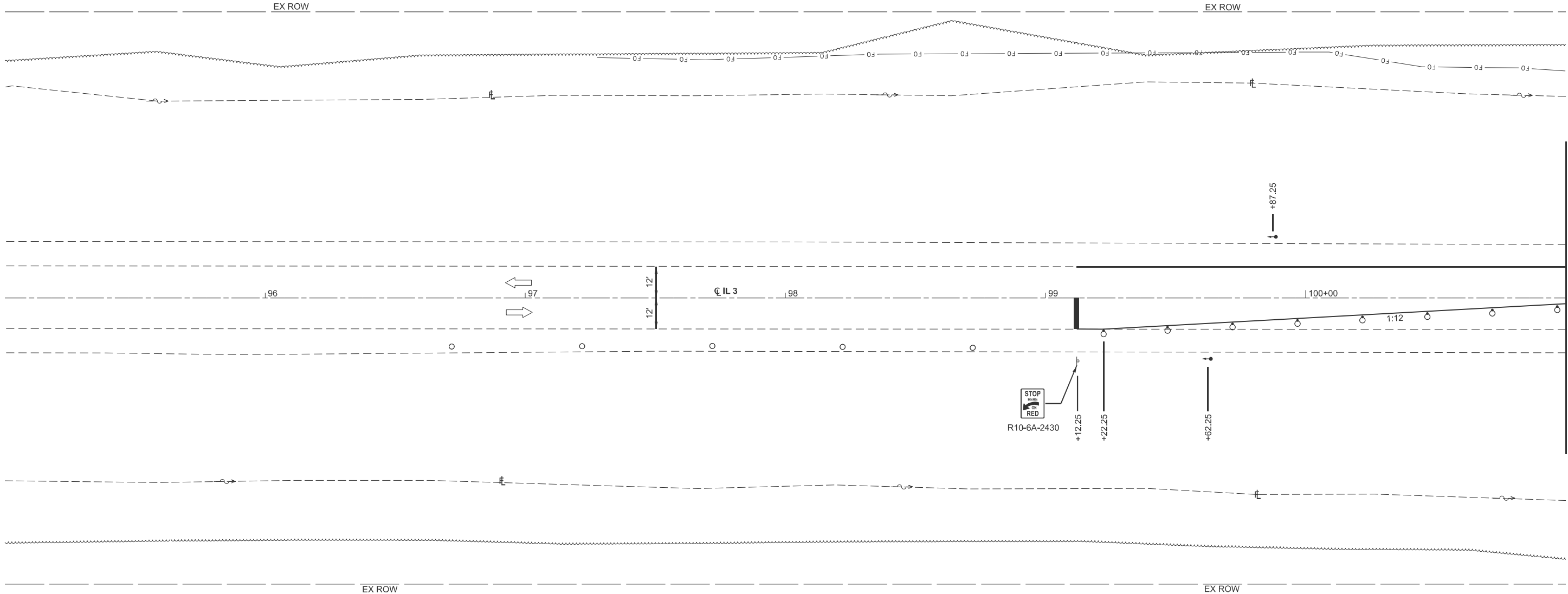
83

22

CONTRACT NO. 78967

ILLINOIS

FED. AID PROJECT



TRAFFIC CONTROL LEGEND

- SIGN
- TRAFFIC SIGNAL
- DRUM
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT

NOTE:
SEE TC&P STANDARD 701321 FOR OTHER REQUIRED ADVANCE
SIGNING AND TRAFFIC CONTROL ITEMS NOT SHOWN ON THIS
DETAIL SHEET. THE INTENT OF THESE DETAILS IS JUST TO SHOW
EXACT LOCATION OF ITEMS.

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ENGINEERING
& CONSULTING

USER NAME	= ShelbySkinner	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
PLOT SCALE	= \$SCALE\$	CHECKED	-	REVISED	-
PLOT DATE	= 11/24/2025	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 TRAFFIC CONTROL PLANS
IL 3

SCALE: 1"=20' SHEET 2 OF 4 SHEETS STA. 95+00.00 TO STA. 101+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	1308-1	JACKSON	83	23
CONTRACT NO. 78967				
		ILLINOIS	FED. AID PROJECT	



TRAFFIC CONTROL LEGEND

- | | |
|---|--|
|  | DRUM |
|  | DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT |
|  | TEMPORARY CONCRETE BARRIER |
|  | CRYSTAL, BI-DIRECTIONAL BARRIER WALL REFLECTOR |
|  | TEMPORARY IMPACT ATTENUATOR |
|  | TYPE III BARRICADES WITH FLASHING LIGHTS |
|  | WORK AREA |

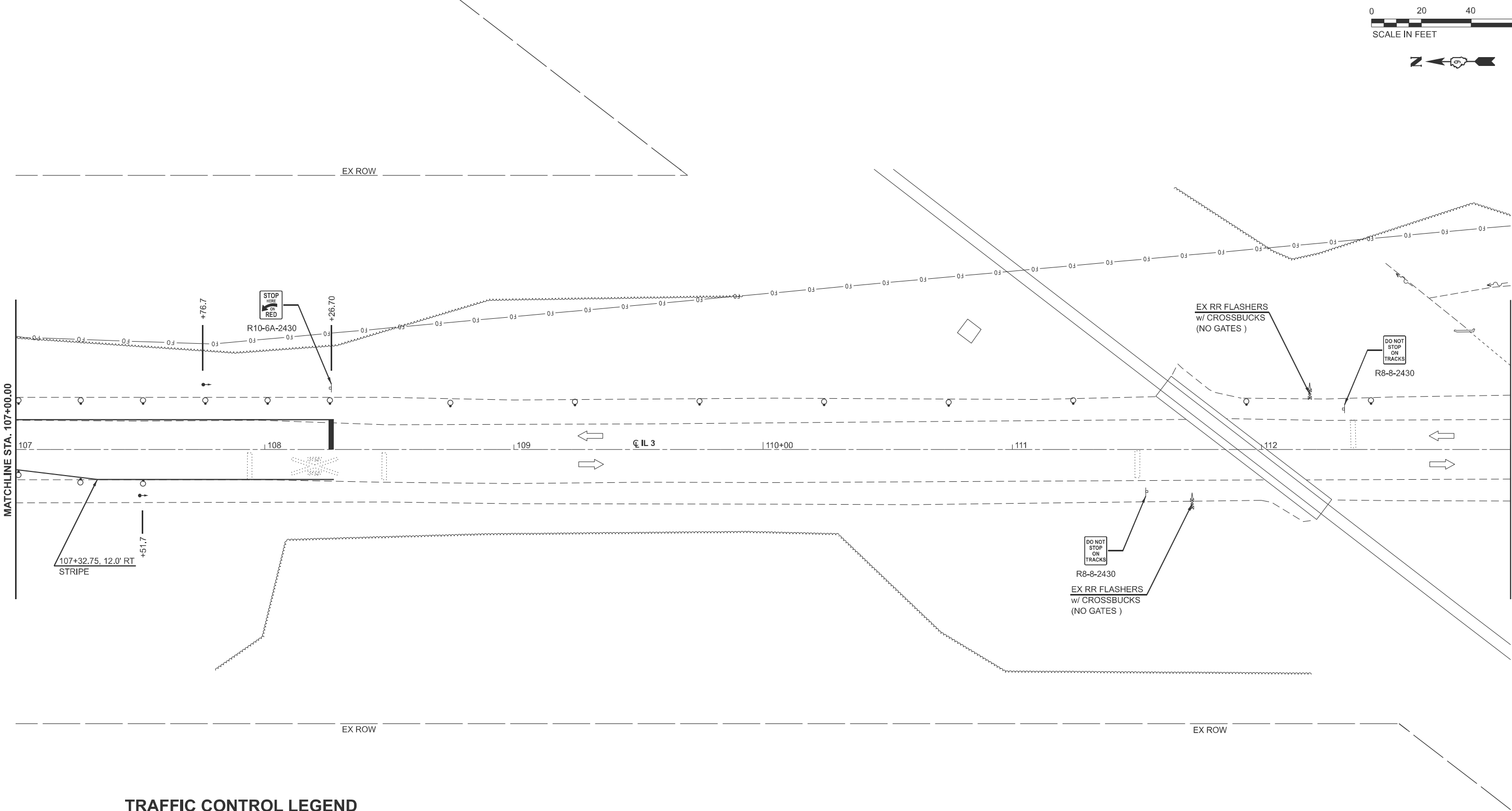
NOTE:
THE TEMPORARY CONCRETE BARRIER SHALL BE PINNED TO THE PAVEMENT WITH 3 ANCHOR PINS PER SECTION ON THE TRAFFIC SIDE OF THE BARRIER WALL AT THE FOLLOWING LOCATIONS:

STAGE I	102+68.25 TO 103+43.25
	103+43.25 TO 104+80.75 (PINNING REQUIRED IN THE EXISTING BRIDGE DECK, BUT NOT PAID FOR SEPARATELY PER STRUCTURE DETAILS)
	104+80.75 TO 105+55.75

THE 2 BARRIERS BEFORE & AFTER THE ABOVE LOCATIONS SHALL BE PINNED AS DESCRIBED IN ARTICLE 704.04 TO PROVIDE A TRANSITION FROM THE PINNED TO UNPINNED BARRIER.
THE BARRIER UNIT AT EACH END SHALL BE ANCHORED AS SPECIFIED IN ARTICLE 704.04. ALL ANCHORING AND PINNING HOLES SHALL BE CORE DRILLED.

NOTE:
SEE TC&P STANDARD 701321 FOR OTHER REQUIRED ADVANCE
SIGNING AND TRAFFIC CONTROL ITEMS NOT SHOWN ON THIS
DETAIL SHEET. THE INTENT OF THESE DETAILS IS JUST TO SHOW
EXACT LOCATION OF ITEMS.

* SEE TYPICAL CROSS SECTIONS FOR STAGE CONSTRUCTION AND TEMP. TRAFFIC CONTROL IN STRUCTURE DETAILS.



TRAFFIC CONTROL LEGEND

- SIGN
- TRAFFIC SIGNAL
- DRUM
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT

NOTE:
SEE TC&P STANDARD 701321 FOR OTHER REQUIRED ADVANCE
SIGNING AND TRAFFIC CONTROL ITEMS NOT SHOWN ON THIS
DETAIL SHEET. THE INTENT OF THESE DETAILS IS JUST TO SHOW
EXACT LOCATION OF ITEMS.

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USER NAME	= ShelbySkinner	DESIGNED	-	REVISED	-
		DRAWN	-	REVISED	-
PLOT SCALE	= \$SCALE\$	CHECKED	-	REVISED	-
PLOT DATE	= 11/24/2025	DATE	-	REVISED	-

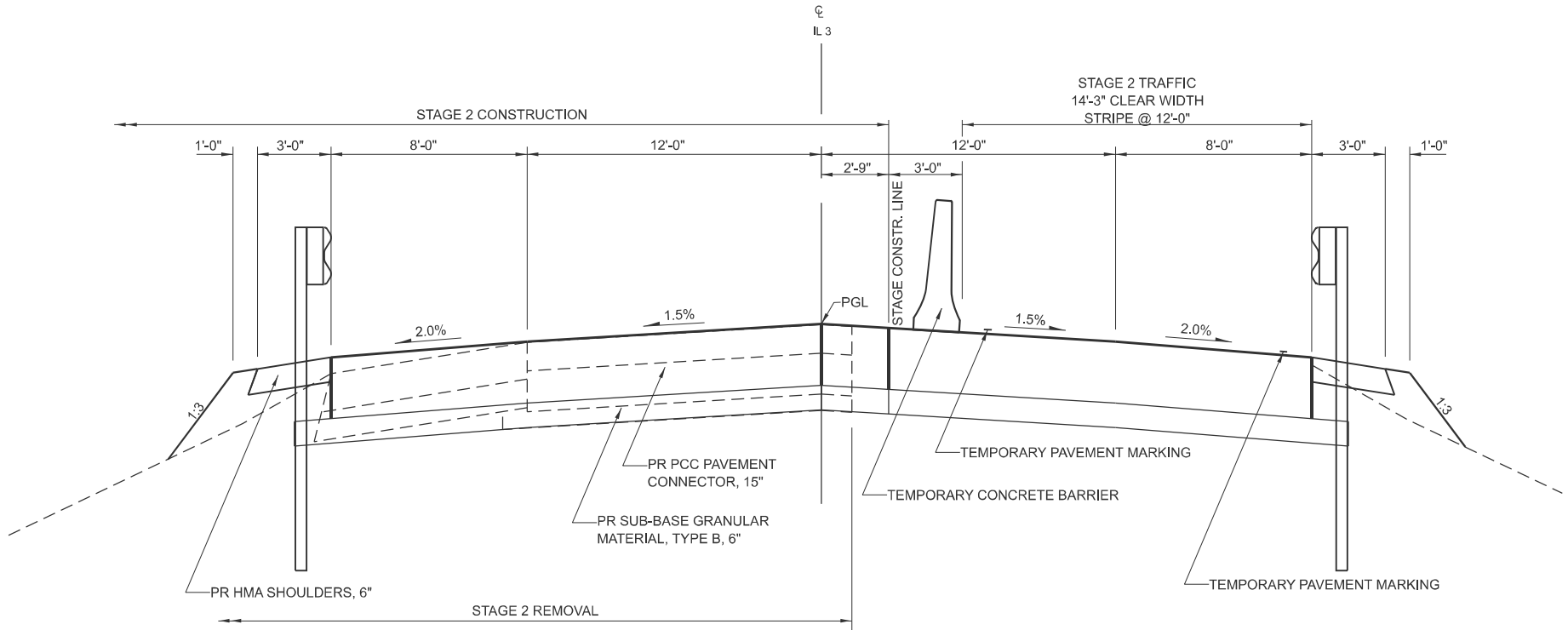
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 1 TRAFFIC CONTROL PLANS
IL 3

SCALE: 1"=20' SHEET 4 OF 4 SHEETS STA. 107+00.00 TO STA. 113+00.00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	25
CONTRACT NO. 78967				
ILLINOIS FED. AID PROJECT				

MODEL: MOT - Stage 2
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STAGE 2 CONSTRUCTION
(LOOKING SOUTH)

WIDE LOAD SIGN



W12-I103 (48 X 48)
SERIES D ALPHABET, NO BORDER,
BLACK ON WHITE

NOTES FOR WIDE LOAD SIGN

THE CONTRACTOR SHALL FURNISH THE POST AND ERECT THE SIGN AT THE NECESSARY LOCATION AS DIRECTED BY THE ENGINEER. THE SIGN SHALL BE POST MOUNTED.

THE ABOVE NOTED WORK, INCLUDING SIGNS, POSTS, HARDWARE, AND LABOR SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE, EACH, FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701321, AND NO OTHER COMPENSATION WILL BE ALLOWED.

FOR WORK ON ALL STRUCTURES, THE WIDTH SHOWN ON THE W12-I103 SIGN SHALL BE 12'-3" (STAGE 1); 12'-9" (STAGE 2) OR DIRECTED BY THE ENGINEER. THE "X" MILES AHEAD WILL BE DETERMINED BY THE ENGINEER.

STAGE 2 CONSTRUCTION

1. UTILIZE TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 AND 701321, TO REMOVE STAGE 1 TC&P AND SET UP STAGE 2 TC&P.
2. PLACE TEMPORARY TRAFFIC CONTROL AS SHOWN ON THE DETAILS.
3. INSTALL TEMPORARY TRAFFIC SIGNALS PRIOR TO CLOSING THE NORTHBOUND LANE OF THE ROADWAY (SAME LOCATION AS IN STAGE 1). SEE "TRAFFIC CONTROL NOTES" FOR MORE DETAILS.
4. UTILIZE TRAFFIC CONTROL AND PROTECTION, STANDARD 701321 TO DIRECT TRAFFIC TO THE SOUTHBOUND / WEST SIDE OF IL 3. REMOVE THE NORTHBOUND SIDE OF THE STRUCTURE.
5. CONSTRUCT THE NORTHBOUND SIDE OF THE BRIDGE STRUCTURE, EMBANKMENT AT THE NORTH AND SOUTH SIDES OF THE PROPOSED STRUCTURE, AND APPROACH PAVEMENT.

TRAFFIC CONTROL NOTES

1. THE CONTRACTOR WILL HAVE THE OPTION TO USE MICROWAVE DETECTION FOR USE WITH THE TEMPORARY TRAFFIC SIGNALS IN ACCORDANCE WITH HIGHWAY STANDARD 701321.
2. ALL TEMPORARY PAVEMENT MARKINGS, DRUMS, ETC. SHALL BE PLACED PRIOR TO PLACING TEMPORARY CONCRETE BARRIERS.

NOTES FOR TRAFFIC CONTROL & PROTECTION STANDARD 701321

ALL TC&P ITEMS SHOWN IN THE DETAILS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE, EACH FOR TRAFFIC CONTROL AND PROTECTION, STANDARD 701321, EXCEPT FOR SEPARATE PAY ITEMS INCLUDED IN THIS CONTRACT. NO OTHER COMPENSATION WILL BE ALLOWED.

1. ALL SIGNAGE AS SHOWN ON THE HIGHWAY STANDARD AND ADDITIONAL SIGNAGE SHOWN ON THE STAGE 2 DETAILS. THE NOTED WORK SHALL INCLUDE SIGNS, POSTS, HARDWARE AND LABOR. THE CONTRACTOR SHALL ERECT THE SIGNS AT THE LOCATIONS ON THE DETAIL AND AT LOCATIONS DIRECTED BY THE ENGINEER.
2. TEMPORARY PAVEMENT MARKING IS SHOWN ON THE STANDARD AND DETAILS. THE COST OF TEMPORARY PAVEMENT MARKING AND ITS REMOVAL WILL BE PAID FOR SEPARATELY AS INCLUDED IN THE CONTRACT PLANS.



ENGINEERING
& CONSULTING

USER NAME = ShelbySkinner

DESIGNED -

DRAWN -

PLOT SCALE = \$SCALE\$

CHECKED -

DATE - 11/24/2025

DESIGNED -

DRAWN -

CHECKED -

DATE -

REVISED -

REVISED -

REVISED -

REVISED -

REVISED -

REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE 2 TRAFFIC CONTROL PLANS
IL 3

SCALE: N.T.S.

SHEET

1

OF

4

SHEETS

STA.

TO STA.

F.A.P.

RTE.

312

SECTION

130B-1

COUNTY

JACKSON

TOTAL

SHEETS

83

SHEET

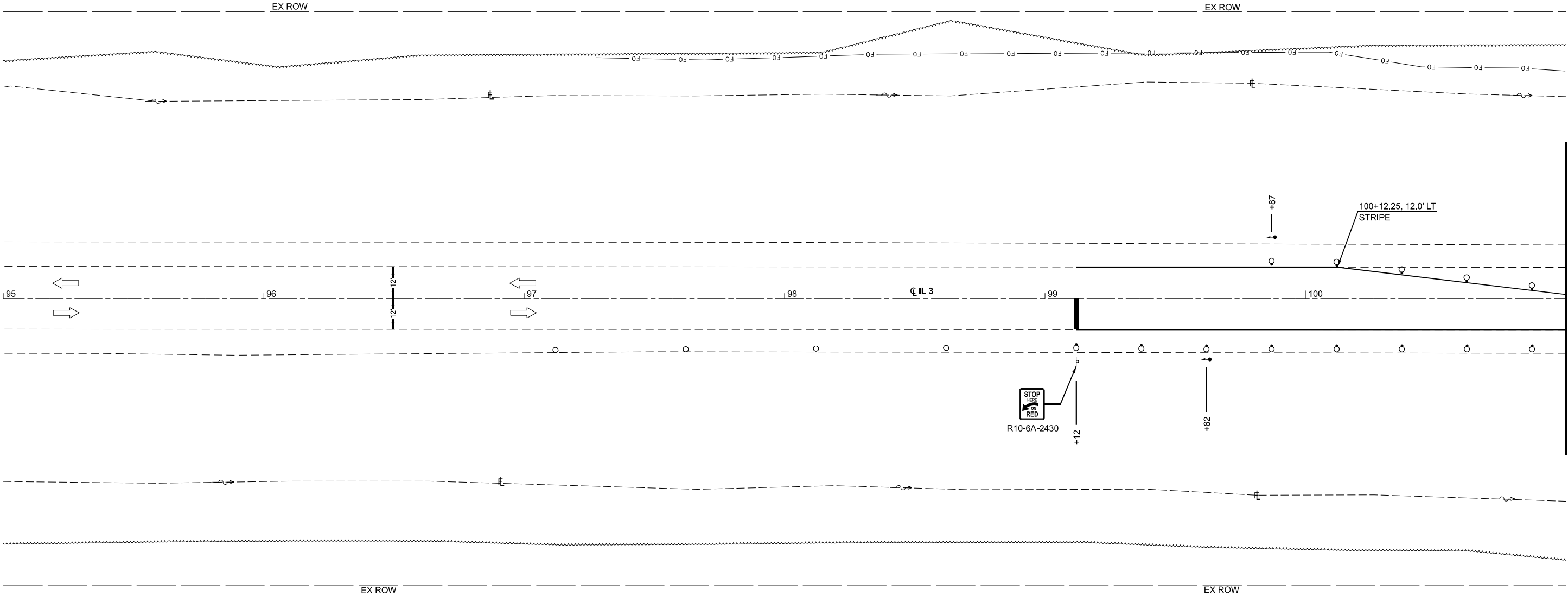
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26

CONTRACT NO. 78967

ILLINOIS

FED. AID PROJECT



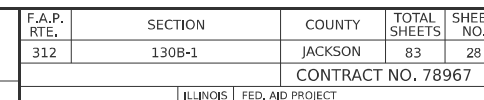
TRAFFIC CONTROL LEGEND

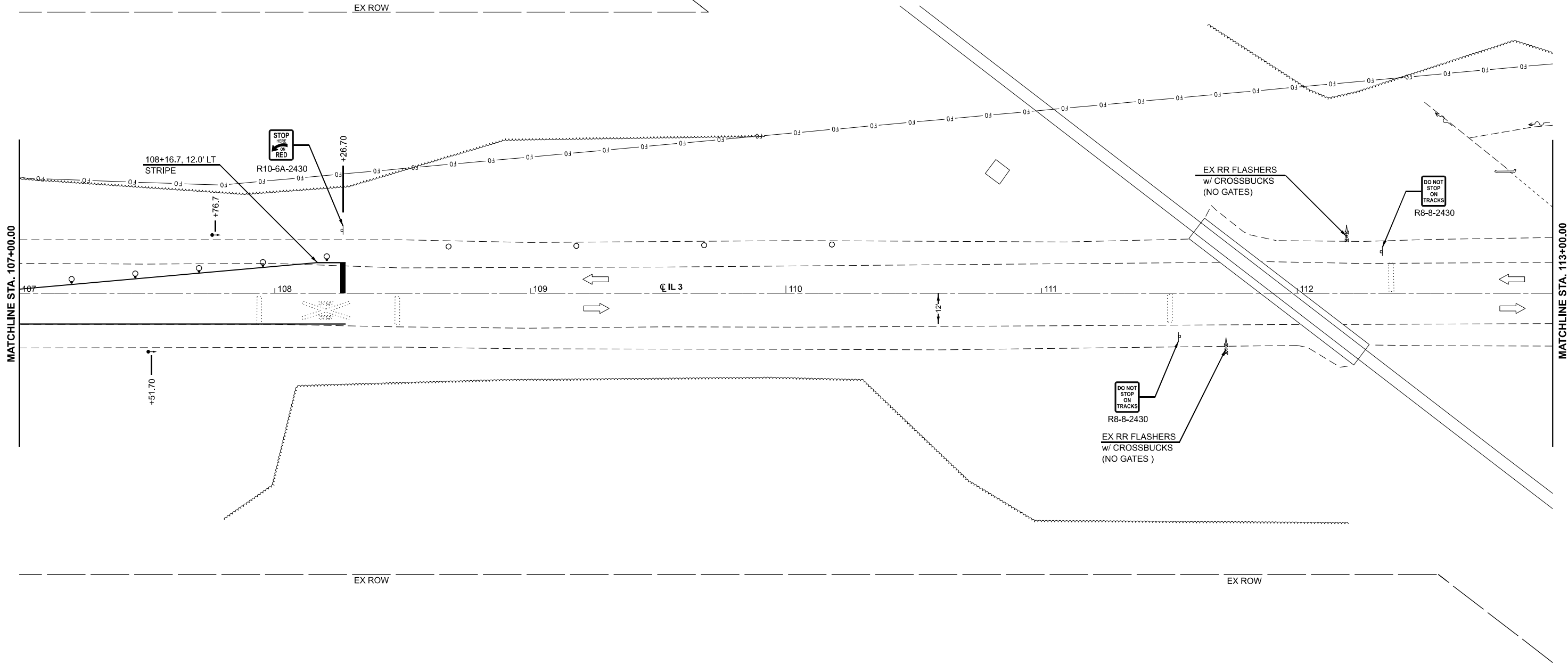
- SIGN
- TRAFFIC SIGNAL
- DRUM
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT

NOTE:
SEE TC&P STANDARD 701321 FOR OTHER REQUIRED ADVANCE
SIGNING AND TRAFFIC CONTROL ITEMS NOT SHOWN ON THIS
DETAIL SHEET. THE INTENT OF THESE DETAILS IS JUST TO SHOW
EXACT LOCATION OF ITEMS.

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	DRAWN -		REVIS	REVISED -					312	130B-1	JACKSON	83	27
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	PLOT DATE = 11/7/2025		DATE -	REVISED -		SCALE: 1"=20'	SHEET 2 OF 4 SHEETS	STA. 95+00.00 TO STA. 101+00.00	ILLINOIS FED. AID PROJECT				





TRAFFIC CONTROL LEGEND

- SIGN
- TRAFFIC SIGNAL
- DRUM
- DRUM WITH STEADY BURNING BI-DIRECTIONAL LIGHT

NOTE:
SEE TC&P STANDARD 701321 FOR OTHER REQUIRED ADVANCE
SIGNING AND TRAFFIC CONTROL ITEMS NOT SHOWN ON THIS
DETAIL SHEET. THE INTENT OF THESE DETAILS IS JUST TO SHOW
EXACT LOCATION OF ITEMS.

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	USER NAME = sctyne		DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	STAGE 2 TRAFFIC CONTROL PLANS IL 3			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	DRAWN -		REVIS	ED -					312	1308-1	JACKSON	83	29
	PLOT SCALE = \$SCALE\$		CHECKED -	REVISED -		CONTRACT NO. 78967							
	PLOT DATE = 11/7/2025		DATE -	REVISED -		SCALE: 1"=20'	SHEET 4 OF 4 SHEETS	STA. 107+00.00 TO STA. 113+00.00	ILLINOIS FED. AID PROJECT				

GENERAL NOTES

All new structural steel shall be metallized. See Special Provision for "Metallizing of Structural Steel."

Calculated weight of Structural Steel = 15,360 lbs (M270 Grade 36)
156,180 lbs (M270 Grade 50)

No field welding is permitted except as specified in the contract documents. Fasteners shall be ASTM F 3125 Grade A325 Type 1, hot-dip galvanized bolts in uncoated metallized areas. Bolts 7/8" diameter, holes 1 1/16" diameter, unless otherwise noted. See special provision for "Metallizing of Structural Steel". Reinforcement bars designated (E) shall be epoxy coated.

Slipforming of the parapets is not allowed.

Bearing seat surfaces shall be constructed or adjusted to the designated elevations within a tolerance of 1/8 in. (0.01 ft.). Adjustment shall be made either by grinding the surface or by shimming the bearings.

The Seal coat design thickness is estimated based on the Cofferdam Design Water Elevation (CDWE) shown. Final cofferdam design, details and seal coat thickness shall be submitted to the Engineer for approval.

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

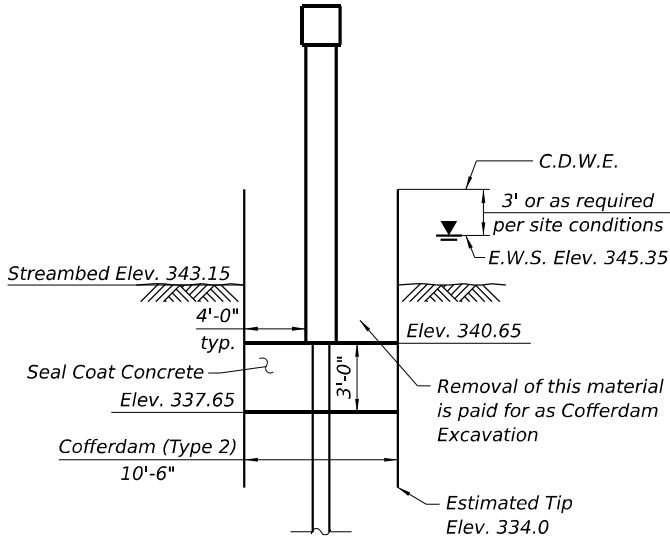
Cost to remove both existing bridge railings and existing reinforced concrete overlay included in removal of existing structures.

The existing structural steel coating contains lead. The Contractor shall take appropriate precautions to address the presence of lead on this project.

The existing bearings contain lead plates. The Contractor shall take precautions to deal with the presence of lead on this project.

INDEX OF SHEETS

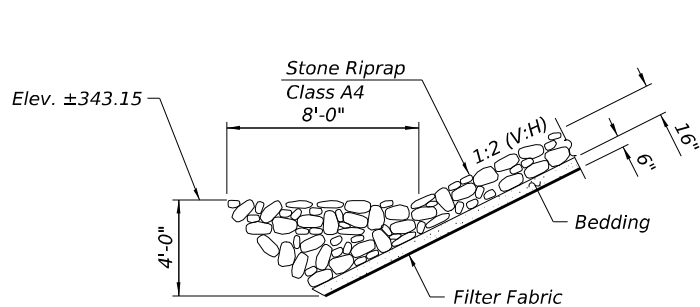
1. General Plan and Elevation
2. General Data
3. Stage Construction Details
4. Temporary Sheet Piling
5. Temporary Concrete Barrier
- 6-8. Top of Slab Elevations
9. Top of North Approach Slab Elevations
10. Top of South Approach Slab Elevations
11. Superstructure
12. Superstructure Details
13. Diaphragm Details
- 14-15. Approach Slab Details
16. Framing Plan
17. Structural Steel Details
18. Design Data Tables
19. Bearing Details
20. North Abutment
21. South Abutment
22. Pier
23. Metal Shell Pile Details
24. Bar Splicer Details
- 25-31. Boring Logs



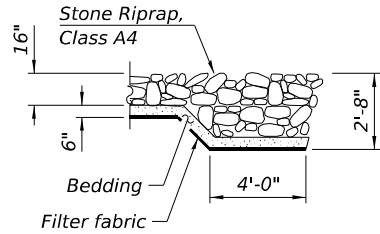
COFFERDAM DETAIL AT PIER

TOTAL BILL OF MATERIAL

ITEM	UNIT	SUPER	SUB	TOTAL
Stone Riprap, Class A4	Sq. Yd.		1,242	1,242
Filter Fabric	Sq. Yd.		1,242	1,242
Removal of Existing Structures	Each			1
Structure Excavation	Cu. Yd.		560	560
Cofferdam Excavation	Cu. Yd.		136	136
Cofferdam (Type 2) (Location - 1)	Each		1	1
Floor Drains	Each	18		18
Concrete Structures	Cu. Yd.		189.7	189.7
Concrete Superstructure	Cu. Yd.	261.2		261.2
Bridge Deck Grooving	Sq. Yd.	908		908
Seal Coat Concrete	Cu. Yd.		73.7	73.7
Protective Coat	Sq. Yd.	1,129		1,129
Concrete Superstructure (Approach Slab)	Cu. Yd.	117.0		117.0
Furnishing & Erecting Structural Steel	L. Sum	1		1
Stud Shear Connectors	Each	3,535		3,535
Reinforcement Bars, Epoxy Coated	Pound	87,490	26,140	113,630
Bar Splicers	Each	710	152	862
Furnishing Metal Shell Piles 16" x 0.375"	Foot		2,176	2,176
Driving Piles	Foot		2,176	2,176
Test Pile Metal Shells	Each		2	2
Name Plates	Each	1		1
Anchor Bolts, 1"	Each	36		36
Temporary Sheet Piling	Sq. Ft.		698	698
Granular Backfill for Structures	Cu. Yd.		348	348
Pipe Underdrains for Structures 4"	Foot		200	200
Bar Terminators	Each	86	528	614



SECTION A-A



SECTION B-B

STA. 104+12.00
BUILT BY
STATE OF ILLINOIS
F.A.P. 312 Sec. 130B-1
LOADING HL-93
STR. NO. 039-0083

NAME PLATE

See Std. 515001

DESIGN SCOUR ELEVATION TABLE

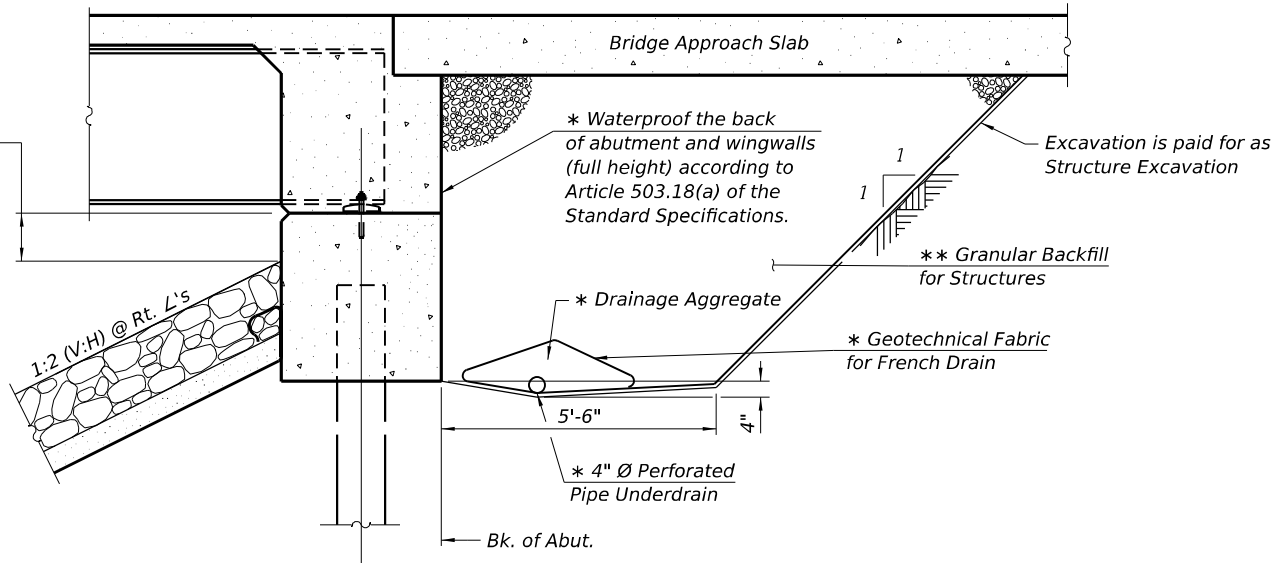
Event / Limit State	Design Scour Elevations (ft.)			Item
	N. Abut.	Pier	S. Abut.	
Q100	356.76	339.5	356.76	8
Q200	356.76	339.3	356.76	
Design	356.76	339.5	356.76	
Check	356.76	339.3	356.76	

WATERWAY INFORMATION

Drainage Area = 13.7 sq. mi.		Existing Overtopping Elev. = 363.70 at Sta. 96+46 Proposed Overtopping Elev. = 363.70 at Sta. 96+46							
Flood Event	Freq. Yr.	Q C.F.S.	Opening Ft²		Nat. H.W.E.	Head - Ft.		Headwater El.	
			Exist.	Prop.		Exist.	Prop.	Exist.	Prop.
Ten-Year	10	706	508	532	355.1	0.2	0.2	355.3	355.3
Design	50	1,020	515	541	355.2	0.3	0.2	355.5	355.4
Base	100	1,140	515	541	355.2	0.3	0.2	355.5	355.4
Scour Check	200	1,270	522	550	355.3	0.3	0.2	355.6	355.5
Max. Calc.	500	1,450	529	559	355.4	0.3	0.3	355.7	355.7

10-Year Velocity through Existing Structure = 1.4 fps
10-Year Velocity through Proposed Structure = 1.3 fps

1'-0" min.
2'-0" max. at low Brg. seat

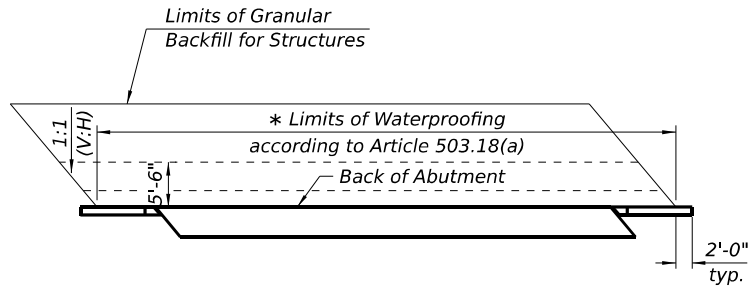


SECTION THRU INTEGRAL ABUTMENT

- (Horiz. dim. at Rt. L's)
- * Included in the cost of Pipe Underdrains for Structures.
 - ** Granular Backfill for Structures according to Section 586 of the Standard Specifications except the course aggregate shall be CA 7, CA 11, or CA 14, and shall be compacted according to Article 205.06 of the Standard Specifications.

Note:

All drainage system components shall extend to 2'-0" from the end of each wingwall except an outlet pipe shall extend until intersecting with the side slopes. The pipes shall drain into concrete headwalls. (See Article 601.05 of the Standard Specifications and Highway Standard 601101).



PLAN SHOWING GRANULAR BACKFILL FOR STRUCTURES

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QUIGG ENGINEERING INC
DESIGN FIRM REG. NO. 184.004721-0014

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PLOT DATE =	CHECKED - MDC

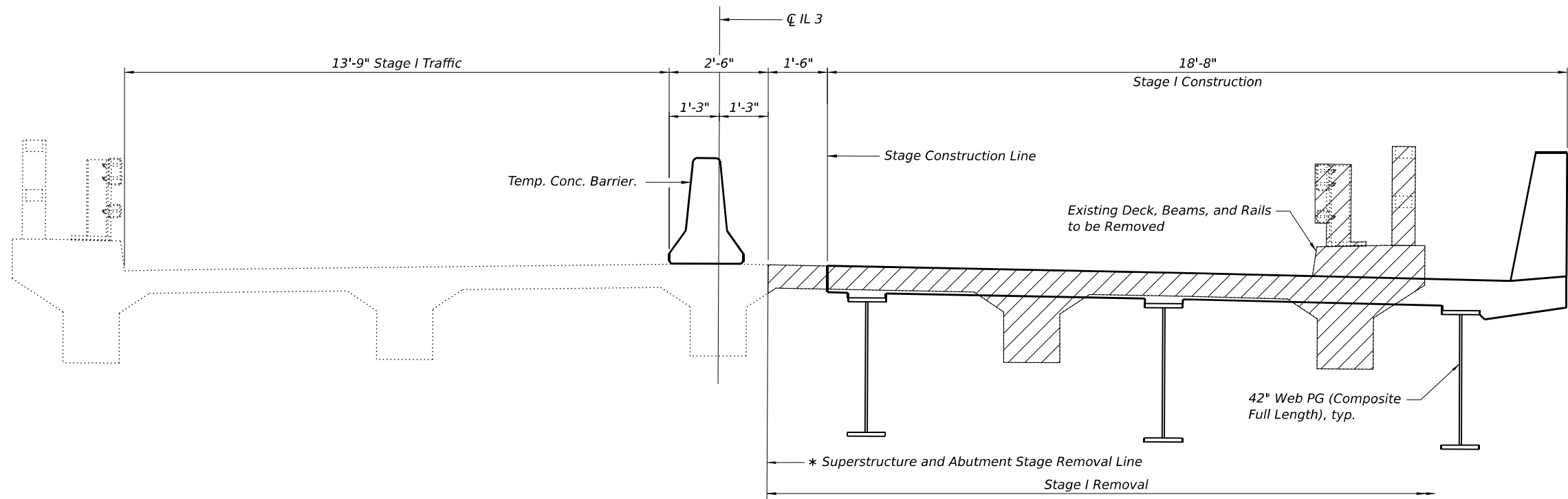
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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL DATA
STRUCTURE NO. 039-0083

SHEET 2 OF 31 SHEETS

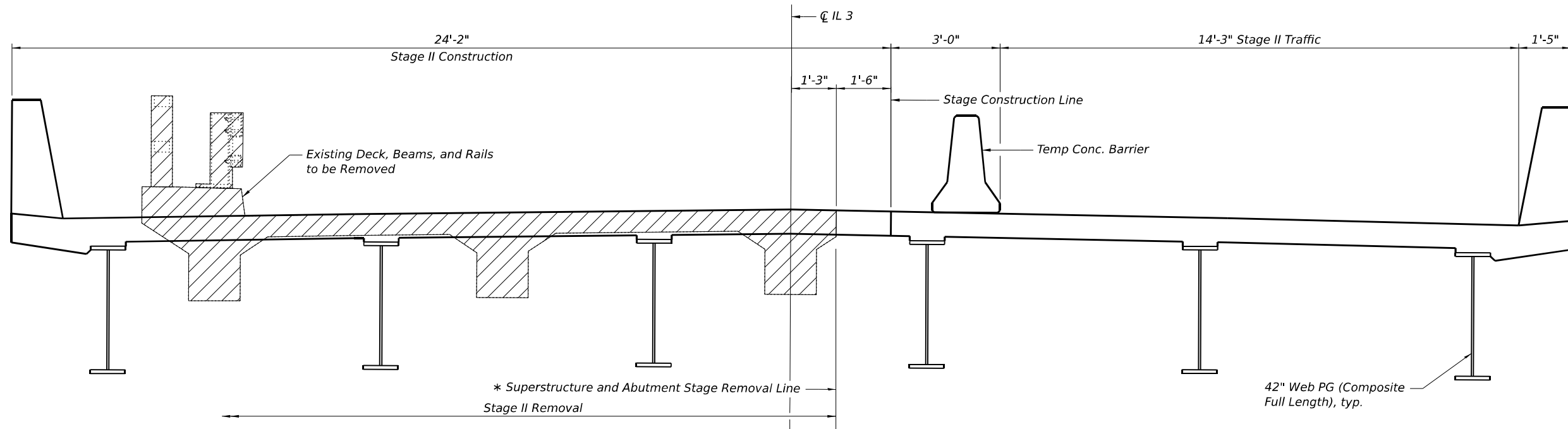
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	31
CONTRACT NO. 78967				
ILLINOIS FED. AID PROJECT				



STAGE I REMOVAL, TRAFFIC, & CONSTRUCTION

(Looking South)

* The Stage Removal Line for the Piers will be offset 1'-0" to the west of the Superstructure and Abutment Stage Removal Line.



STAGE II REMOVAL, TRAFFIC, & CONSTRUCTION

(Looking South)

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QUIGG ENGINEERING INC
DESIGN FIRM REG. NO. 184.004721-0014

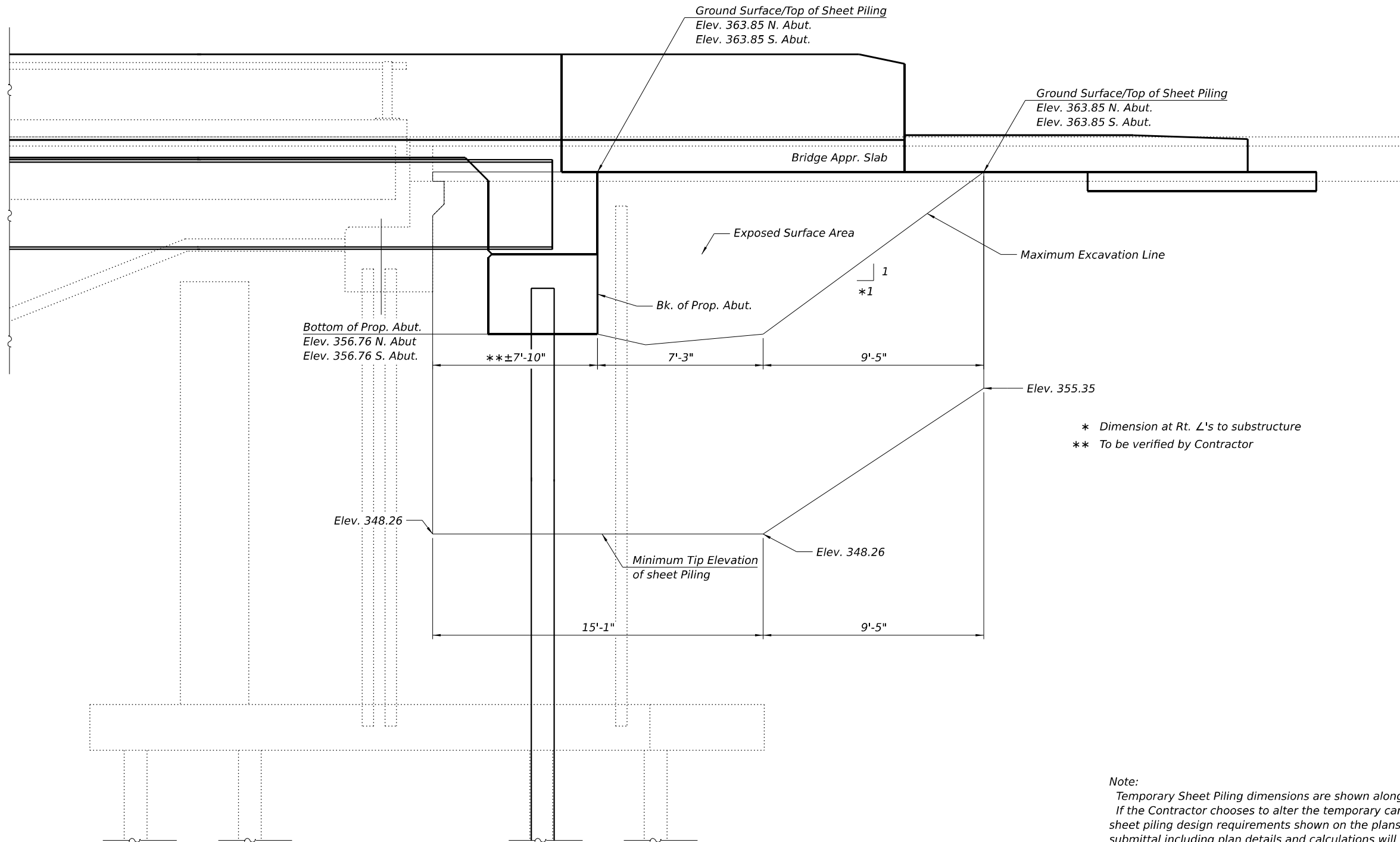
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PLOT DATE =		CHECKED -	MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

STAGE CONSTRUCTION DETAILS
STRUCTURE NO. 039-0083

SHEET 3 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	32
CONTRACT NO. 78967				
ILLINOIS FED. AID PROJECT				



Note:
Temporary Sheet Piling dimensions are shown along CL IL 3.
If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements shown on the plans, a design submittal including plan details and calculations will be required for review and acceptance by the Engineer.
The Contractor shall connect the first sheet to the existing abutment wall to ensure stability of sheets driven to the top of the existing footing. This connection shall be reviewed and accepted by the Engineer and included in the cost for Temporary Sheet Piling.

TEMPORARY SHEET PILING
(South Abutment shown, North Abutment Similar)
(Minimum Section Modulus = 4.75 in³/ft)

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12/2/2025 3:47:34 PM



QUIGG ENGINEERING INC.
DESIGN FIRM REG. NO. 184.004721-0014

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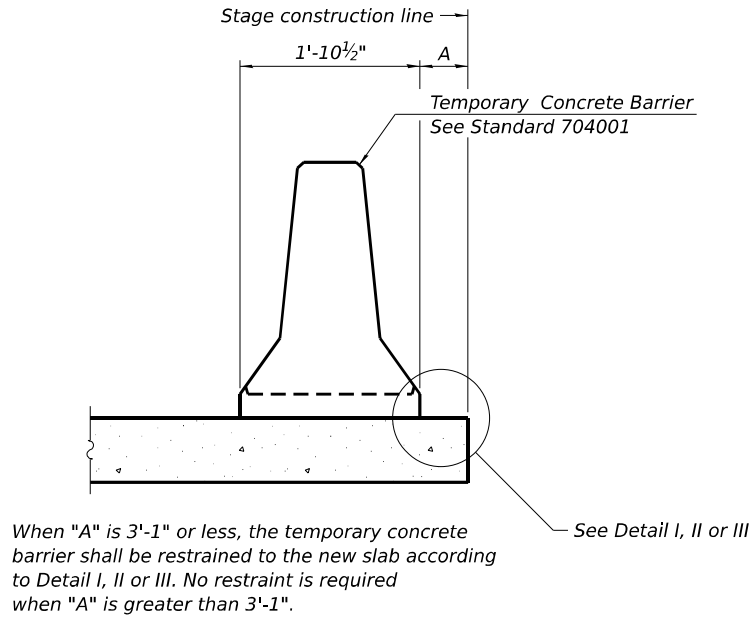
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY SHEET PILING
STRUCTURE NO. 039-0083

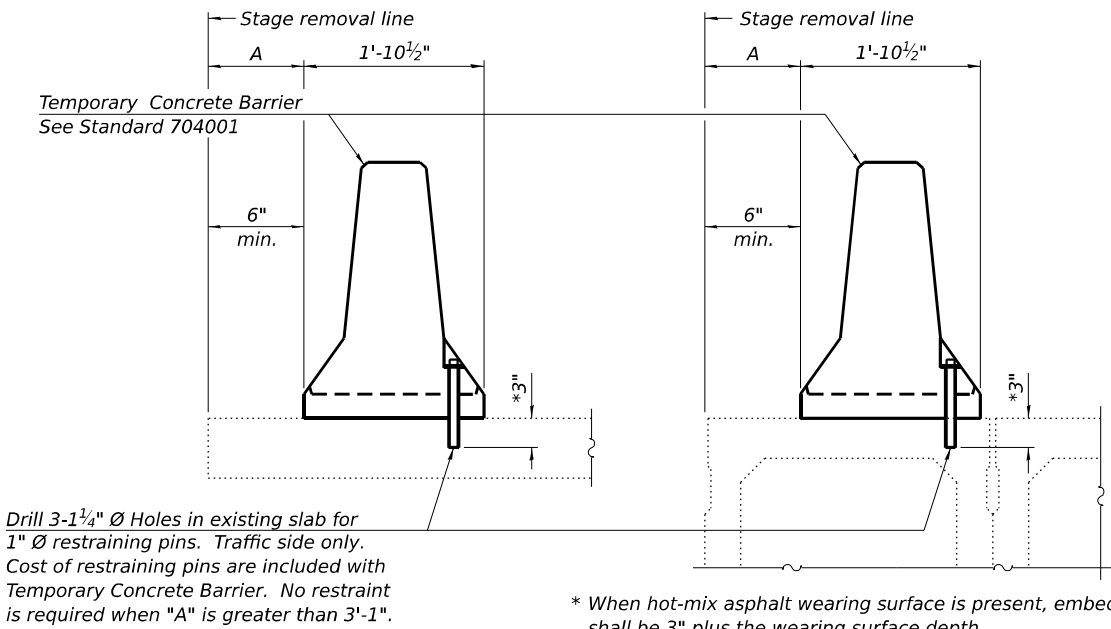
SHEET 4 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	33
CONTRACT NO. 78967				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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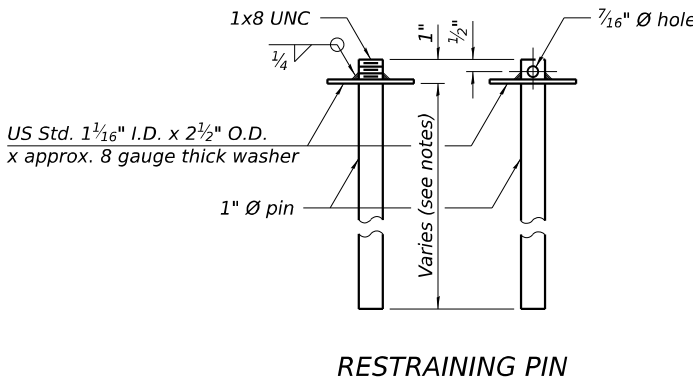
NEW SLAB OR NEW DECK BEAM



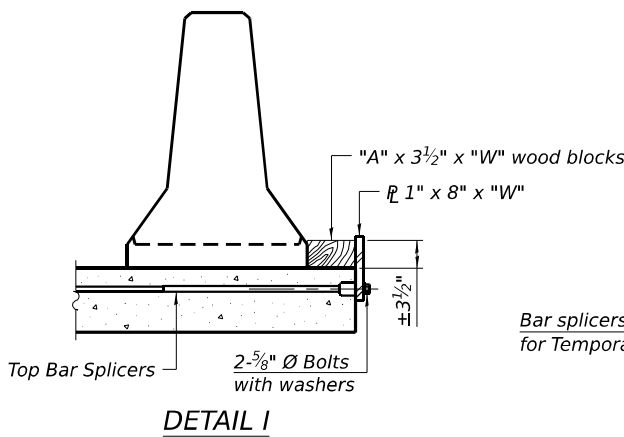
EXISTING SLAB

EXISTING DECK BEAM

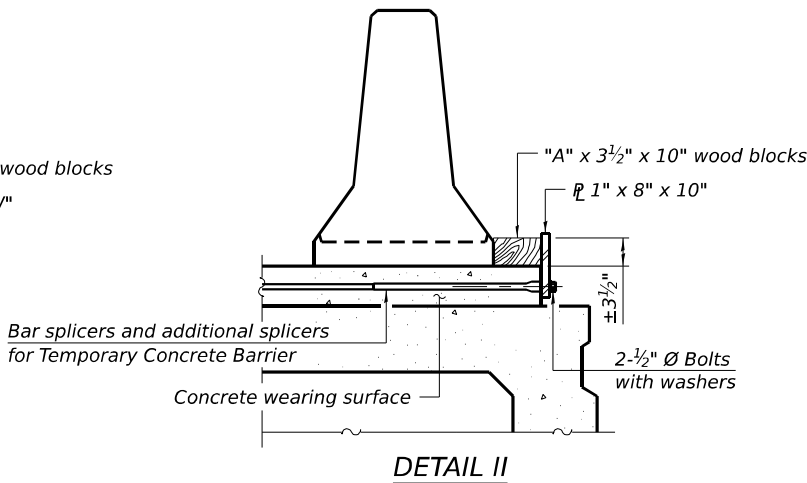
SECTIONS THRU SLAB OR DECK BEAM



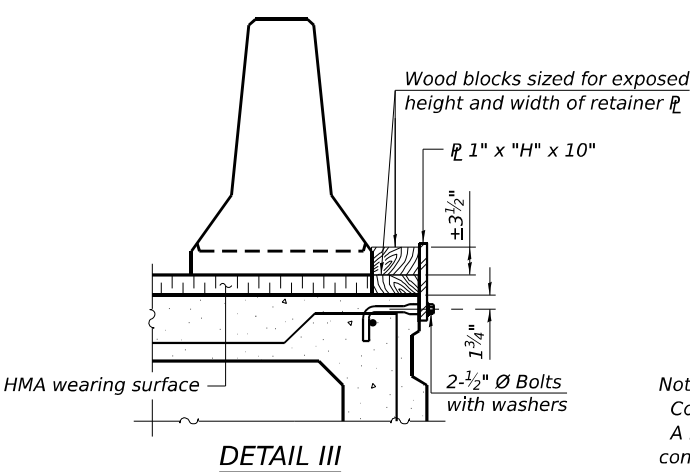
RESTRAINING PIN



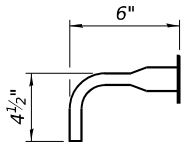
DETAIL I



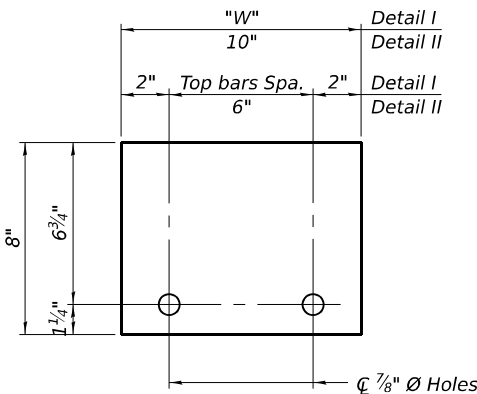
DETAIL II



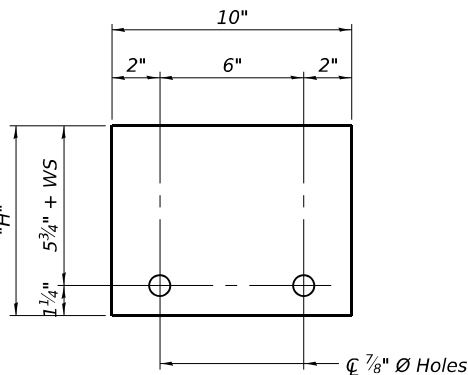
DETAIL III



BAR SPLICER FOR #4 BAR - DETAIL III



STEEL RETAINER R 1" x 8" x "W"
(Detail I and II)



STEEL RETAINER R 1" x "H" x 10"
(Detail III)

RAILING CRITERIA

NCHRP 350 Test Level	3
Railing Weight (plf)	440

R-27

5-15-2023



USER NAME =	SCaro
0390083-78967-005-Temp. Concrete Barrier.dgn	
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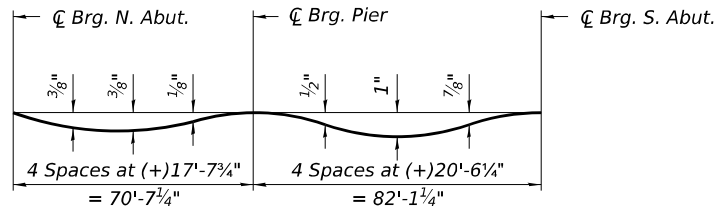
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TEMPORARY CONCRETE BARRIER
STRUCTURE NO. 039-0083

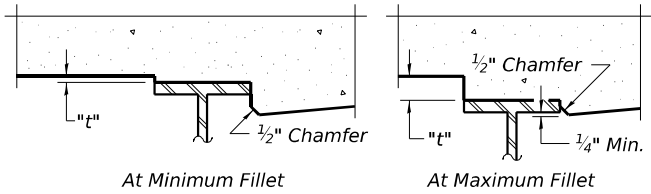
SHEET 5 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	34
CONTRACT NO. 78967				
ILLINOIS FED. AID PROJECT				



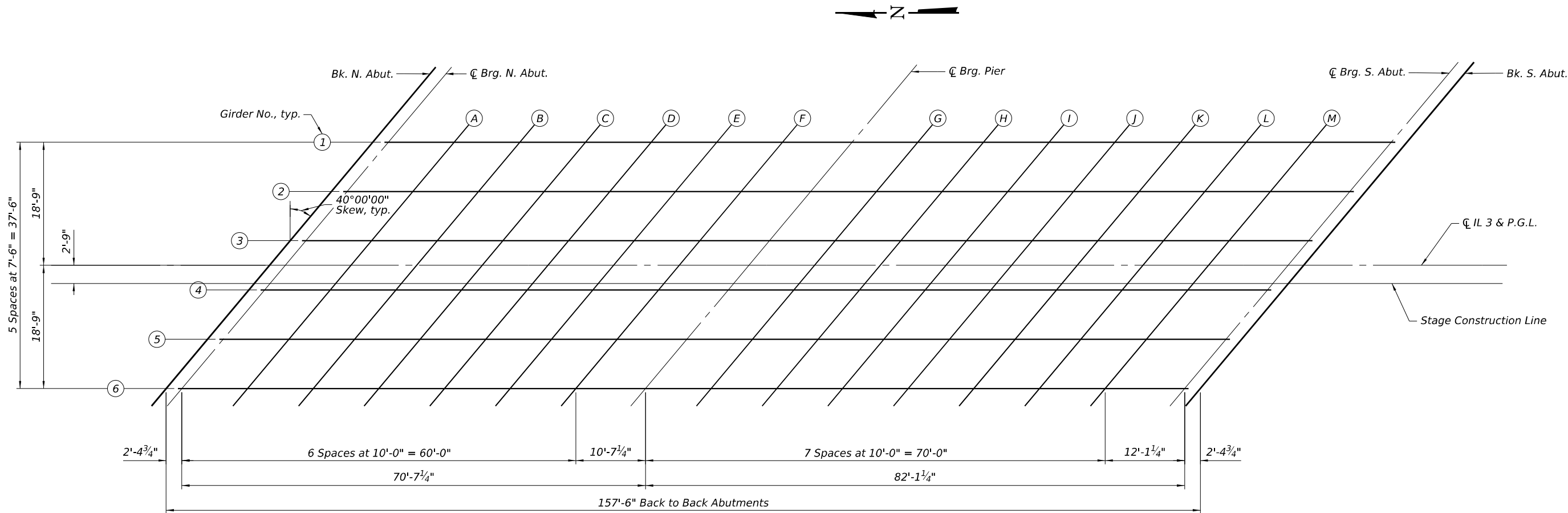
DEAD LOAD DEFLECTION DIAGRAM
(Includes weight of concrete only.)

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 on Sheets 7 and 8 of 31.



To determine "t": After all structural steel has 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 Deflection" shown on Sheets 7 and 8 of 31, minus slab thickness, equals the fillet heights "t" above top flange of beams.

FILLET HEIGHTS



PLAN

MODEL: Default
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12/2/2025 3:47:37 PM



QUIGG ENGINEERING INC.
DESIGN FIRM REG. NO. 184.004721-0014

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DESIGNED - DAP
CHECKED - RPW
DRAWN - ASC
CHECKED - MDC

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS (1 OF 3)
STRUCTURE NO. 039-0083

SHEET 6 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	35
CONTRACT NO. 78967				
ILLINOIS FED. AID PROJECT				

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GIRDER 1

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
Bk. N. Abut.	103+48.98	-18.75	364.83	364.83
☒ Brg. N. Abut.	103+51.38	-18.75	364.83	364.83
A	103+61.38	-18.75	364.83	364.84
B	103+71.38	-18.75	364.83	364.85
C	103+81.38	-18.75	364.83	364.85
D	103+91.38	-18.75	364.83	364.84
E	104+01.38	-18.75	364.83	364.83
F	104+11.38	-18.75	364.83	364.83
☒ Brg. Pier	104+21.98	-18.75	364.83	364.83
G	104+31.98	-18.75	364.83	364.84
H	104+41.98	-18.75	364.83	364.86
I	104+51.98	-18.75	364.83	364.88
J	104+61.98	-18.75	364.83	364.90
K	104+71.98	-18.75	364.83	364.90
L	104+81.98	-18.75	364.83	364.89
M	104+91.98	-18.75	364.83	364.87
☒ Brg. S. Abut.	105+04.09	-18.75	364.83	364.83
Bk. S. Abut.	105+06.48	-18.75	364.83	364.83

GIRDER 2

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
Bk. N. Abut.	103+42.69	-11.25	364.97	364.97
☒ Brg. N. Abut.	103+45.08	-11.25	364.97	364.97
A	103+55.08	-11.25	364.97	364.99
B	103+65.08	-11.25	364.97	365.00
C	103+75.08	-11.25	364.97	365.00
D	103+85.08	-11.25	364.97	364.99
E	103+95.08	-11.25	364.97	364.98
F	104+05.08	-11.25	364.97	364.97
☒ Brg. Pier	104+15.69	-11.25	364.97	364.97
G	104+25.69	-11.25	364.97	364.99
H	104+35.69	-11.25	364.97	365.01
I	104+45.69	-11.25	364.97	365.04
J	104+55.69	-11.25	364.97	365.06
K	104+65.69	-11.25	364.97	365.06
L	104+75.69	-11.25	364.97	365.05
M	104+85.69	-11.25	364.97	365.02
☒ Brg. S. Abut.	104+97.80	-11.25	364.97	364.97
Bk. S. Abut.	105+00.19	-11.25	364.97	364.97

GIRDER 3

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
Bk. N. Abut.	103+36.40	-3.75	365.08	365.08
☒ Brg. N. Abut.	103+38.79	-3.75	365.08	365.08
A	103+48.79	-3.75	365.08	365.10
B	103+58.79	-3.75	365.08	365.11
C	103+68.79	-3.75	365.08	365.11
D	103+78.79	-3.75	365.08	365.11
E	103+88.79	-3.75	365.08	365.09
F	103+98.79	-3.75	365.08	365.08
☒ Brg. Pier	104+09.40	-3.75	365.08	365.08
G	104+19.40	-3.75	365.08	365.10
H	104+29.40	-3.75	365.08	365.12
I	104+39.40	-3.75	365.08	365.15
J	104+49.40	-3.75	365.08	365.17
K	104+59.40	-3.75	365.08	365.17
L	104+69.40	-3.75	365.08	365.16
M	104+79.40	-3.75	365.08	365.13
☒ Brg. S. Abut.	104+91.50	-3.75	365.08	365.08
Bk. S. Abut.	104+93.90	-3.75	365.08	365.08

☒ IL 3 & P.G.L.

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
Bk. N. Abut.	103+33.25	0.00	365.14	365.14
☒ Brg. N. Abut.	103+35.64	0.00	365.14	365.14
A	103+45.64	0.00	365.14	365.16
B	103+55.64	0.00	365.14	365.17
C	103+65.64	0.00	365.14	365.17
D	103+75.64	0.00	365.14	365.16
E	103+85.64	0.00	365.14	365.15
F	103+95.64	0.00	365.14	365.14
☒ Brg. Pier	104+06.25	0.00	365.14	365.14
G	104+16.25	0.00	365.14	365.16
H	104+26.25	0.00	365.14	365.18
I	104+36.25	0.00	365.14	365.21
J	104+46.25	0.00	365.14	365.22
K	104+56.25	0.00	365.14	365.23
L	104+66.25	0.00	365.14	365.22
M	104+76.25	0.00	365.14	365.19
☒ Brg. S. Abut.	104+88.36	0.00	365.14	365.14
Bk. S. Abut.	104+90.75	0.00	365.14	365.14

STAGE CONSTRUCTION LINE

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
Bk. N. Abut.	103+30.94	2.75	365.10	365.10
☒ Brg. N. Abut.	103+33.34	2.75	365.10	365.10
A	103+43.34	2.75	365.10	365.12
B	103+53.34	2.75	365.10	365.13
C	103+63.34	2.75	365.10	365.13
D	103+73.34	2.75	365.10	365.12
E	103+83.34	2.75	365.10	365.11
F	103+93.34	2.75	365.10	365.10
☒ Brg. Pier	104+03.94	2.75	365.10	365.10
G	104+13.94	2.75	365.10	365.11
H	104+23.94	2.75	365.10	365.14
I	104+33.94	2.75	365.10	365.17
J	104+43.94	2.75	365.10	365.18
K	104+53.94	2.75	365.10	365.19
L	104+63.94	2.75	365.10	365.17
M	104+73.94	2.75	365.10	365.15
☒ Brg. S. Abut.	104+86.05	2.75	365.10	365.10
Bk. S. Abut.	104+88.44	2.75	365.10	365.10

GIRDER 4

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
Bk. N. Abut.	103+30.10	3.75	365.08	365.08
☒ Brg. N. Abut.	103+32.50	3.75	365.08	365.08
A	103+42.50	3.75	365.08	365.10
B	103+52.50	3.75	365.08	365.11
C	103+62.50	3.75	365.08	365.11
D	103+72.50	3.75	365.08	365.11
E	103+82.50	3.75	365.08	365.09
F	103+92.50	3.75	365.08	365.08
☒ Brg. Pier	104+03.10	3.75	365.08	365.08
G	104+13.10	3.75	365.08	365.10
H	104+23.10	3.75	365.08	365.12
I	104+33.10	3.75	365.08	365.15
J	104+43.10	3.75	365.08	365.17
K	104+53.10	3.75	365.08	365.17
L	104+63.10	3.75	365.08	365.16
M	104+73.10	3.75	365.08	365.13
☒ Brg. S. Abut.	104+85.21	3.75	365.08	365.08
Bk. S. Abut.	104+87.60	3.75	365.08	365.08



QUIGG ENGINEERING INC
DESIGN FIRM REG. NO. 184.004721-0014

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS (2 OF 3)
STRUCTURE NO. 039-0083

SHEET 7 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	36
CONTRACT NO. 78967				
		ILLINOIS	FED. AID PROJECT	

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GIRDER 5

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
Bk. N. Abut.	103+23.81	11.25	364.97	364.97
☒ Brg. N. Abut.	103+26.20	11.25	364.97	364.97
A	103+36.20	11.25	364.97	364.99
B	103+46.20	11.25	364.97	365.00
C	103+56.20	11.25	364.97	365.00
D	103+66.20	11.25	364.97	364.99
E	103+76.20	11.25	364.97	364.98
F	103+86.20	11.25	364.97	364.97
☒ Brg. Pier	103+96.81	11.25	364.97	364.97
G	104+06.81	11.25	364.97	364.99
H	104+16.81	11.25	364.97	365.01
I	104+26.81	11.25	364.97	365.04
J	104+36.81	11.25	364.97	365.06
K	104+46.81	11.25	364.97	365.06
L	104+56.81	11.25	364.97	365.05
M	104+66.81	11.25	364.97	365.02
☒ Brg. S. Abut.	104+78.92	11.25	364.97	364.97
Bk. S. Abut.	104+81.31	11.25	364.97	364.97

GIRDER 6

Location	Station	Offset	Theoretical Grade Elevations	Theoretical Grade Elevations Adjusted for Dead Load Deflections
Bk. N. Abut	103+17.52	18.75	364.83	364.83
☒ Brg. N. Abut.	103+19.91	18.75	364.83	364.83
A	103+29.91	18.75	364.83	364.84
B	103+39.91	18.75	364.83	364.85
C	103+49.91	18.75	364.83	364.85
D	103+59.91	18.75	364.83	364.84
E	103+69.91	18.75	364.83	364.83
F	103+79.91	18.75	364.83	364.83
☒ Brg. Pier	103+90.52	18.75	364.83	364.83
G	104+00.52	18.75	364.83	364.84
H	104+10.52	18.75	364.83	364.86
I	104+20.52	18.75	364.83	364.88
J	104+30.52	18.75	364.83	364.90
K	104+40.52	18.75	364.83	364.90
L	104+50.52	18.75	364.83	364.89
M	104+60.52	18.75	364.83	364.87
☒ Brg. S. Abut.	104+72.62	18.75	364.83	364.83
Bk. S. Abut.	104+75.02	18.75	364.83	364.83



QUIGG ENGINEERING INC
DESIGN FIRM REG. NO. 184.004721-0014

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REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SLAB ELEVATIONS (3 OF 3)
STRUCTURE NO. 039-0083

SHEET 8 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	37
CONTRACT NO. 78967				
		ILLINOIS	FED. AID PROJECT	

EAST SHOULDER LINE			
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Aprpr. Slab	103+21.34	-20.00	364.80
A3	103+31.34	-20.00	364.80
A4	103+41.34	-20.00	364.80
S. End of N. Aprpr. Slab	103+51.34	-20.00	364.80

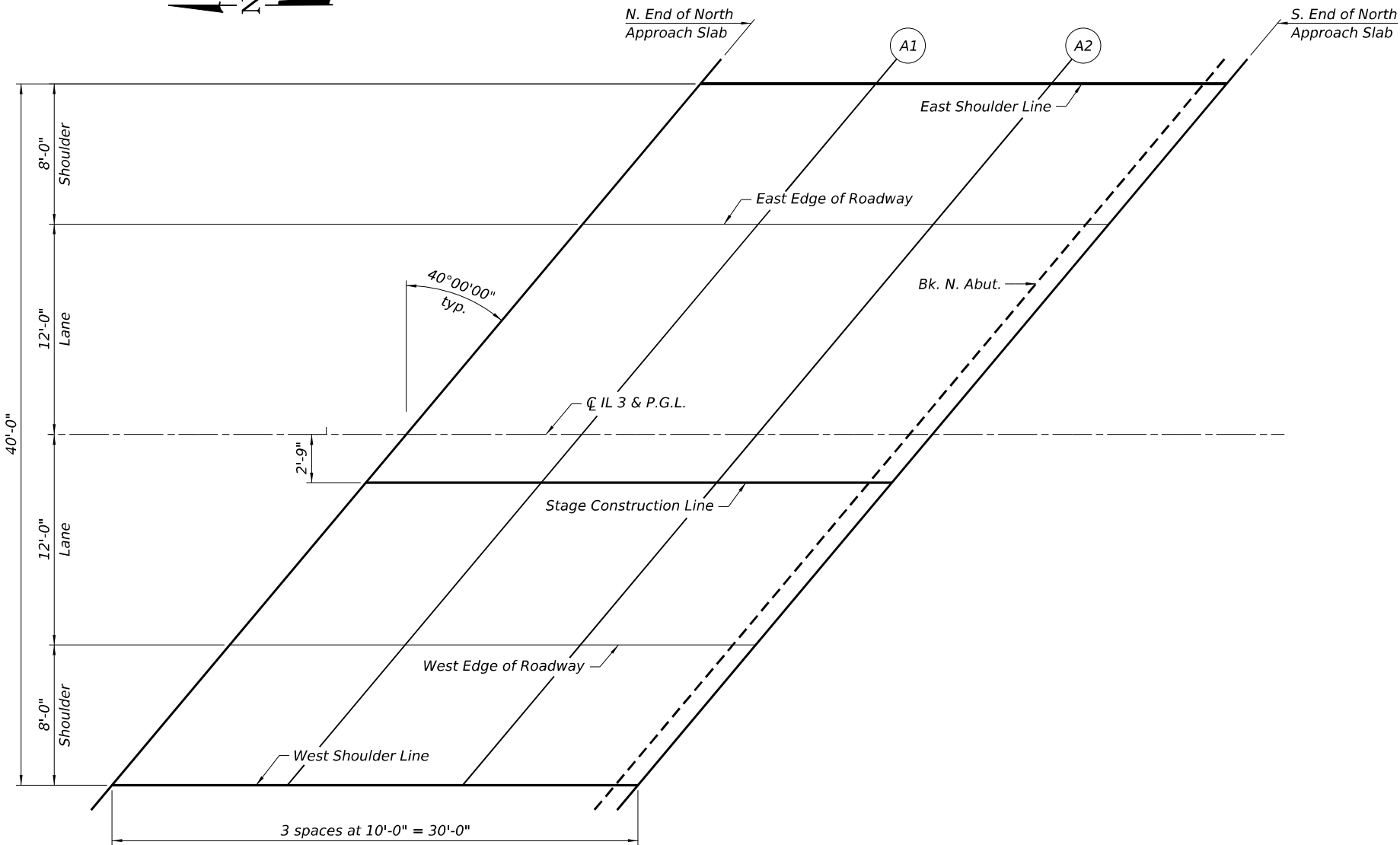
EAST EDGE OF ROADWAY			
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Aprpr. Slab	103+14.62	-12.00	364.96
A1	103+24.62	-12.00	364.96
A2	103+34.62	-12.00	364.96
S. End of N. Aprpr. Slab	103+44.62	-12.00	364.96

CL 3 & P.G.L.			
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Aprpr. Slab	103+04.56	0.00	365.14
A1	103+14.56	0.00	365.14
A2	103+24.56	0.00	365.14
S. End of N. Aprpr. Slab	103+34.56	0.00	365.14

STAGE CONSTRUCTION LINE			
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Aprpr. Slab	103+02.25	2.75	365.10
A1	103+12.25	2.75	365.10
A2	103+22.25	2.75	365.10
S. End of N. Aprpr. Slab	103+32.25	2.75	365.10

WEST EDGE OF ROADWAY			
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Aprpr. Slab	102+94.49	12.00	364.96
A1	103+04.49	12.00	364.96
A2	103+14.49	12.00	364.96
S. End of N. Aprpr. Slab	103+24.49	12.00	364.96

WEST SHOULDER LINE			
Location	Station	Offset	Theoretical Grade Elevations
N. End of N. Aprpr. Slab	102+87.77	20.00	364.80
A1	102+97.77	20.00	364.80
A2	103+07.77	20.00	364.80
S. End of N. Aprpr. Slab	103+17.77	20.00	364.80



PLAN

E-AS

5-15-2023

MODEL: Default
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QUIGG ENGINEERING INC
DESIGN FIRM REG. NO. 184.004721-0014

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CHECKED - RPW
DRAWN - ASC
CHECKED - MDC

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF NORTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 039-0083

SHEET 9 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	38
CONTRACT NO. 78967				
ILLINOIS FED. AID PROJECT				

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EAST SHOULDER LINE			
Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	105+06.23	-20.00	364.80
A3	105+16.23	-20.00	364.80
A4	105+26.23	-20.00	364.80
S. End of S. Appr. Slab	105+36.23	-20.00	364.80

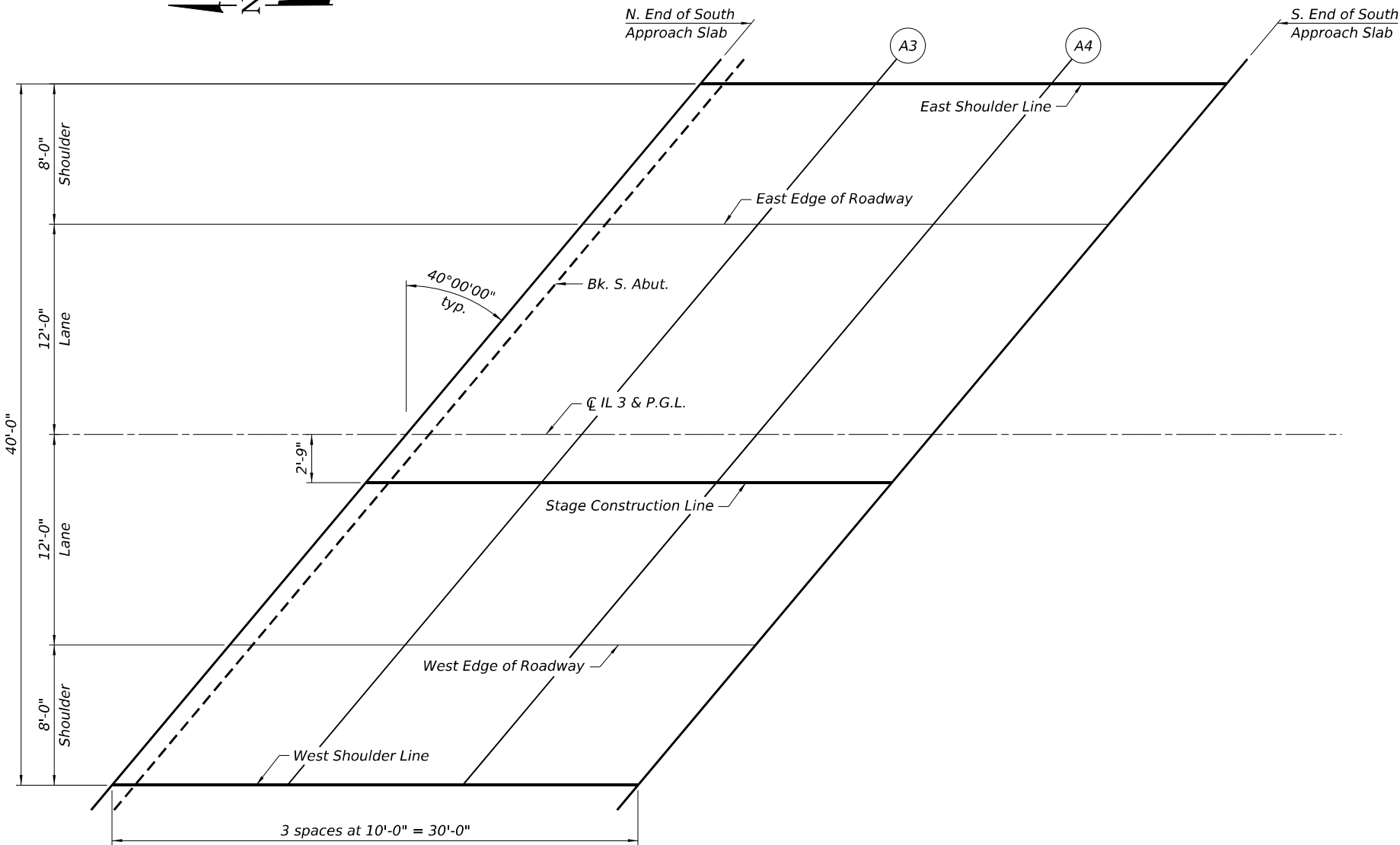
EAST EDGE OF ROADWAY			
Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	104+99.51	-12.00	364.96
A3	105+09.51	-12.00	364.96
A4	105+19.51	-12.00	364.96
S. End of S. Appr. Slab	105+26.51	-12.00	364.96

CL 3 & P.G.L.			
Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	104+89.44	0.00	365.14
A3	104+99.44	0.00	365.14
A4	105+09.44	0.00	365.14
S. End of S. Appr. Slab	105+19.44	0.00	365.14

STAGE CONSTRUCTION LINE			
Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	104+87.14	2.75	365.10
A3	104+97.14	2.75	365.10
A4	105+07.14	2.75	365.10
S. End of S. Appr. Slab	105+17.14	2.75	365.10

WEST EDGE OF ROADWAY			
Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	104+79.38	12.00	364.96
A3	104+89.38	12.00	364.96
A4	104+99.38	12.00	364.96
S. End of S. Appr. Slab	105+09.38	12.00	364.96

WEST SHOULDER LINE			
Location	Station	Offset	Theoretical Grade Elevations
N. End of S. Appr. Slab	104+72.66	20.00	364.80
A3	104+82.66	20.00	364.80
A4	104+92.66	20.00	364.80
S. End of S. Appr. Slab	105+02.66	20.00	364.80



PLAN

E-AS

5-15-2023



QUIGG ENGINEERING INC
DESIGN FIRM REG. NO. 184.004721-0014

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CHECKED - RPW
DRAWN - ASC
CHECKED - MDC

REVISED -
REVISED -
REVISED -
REVISED -

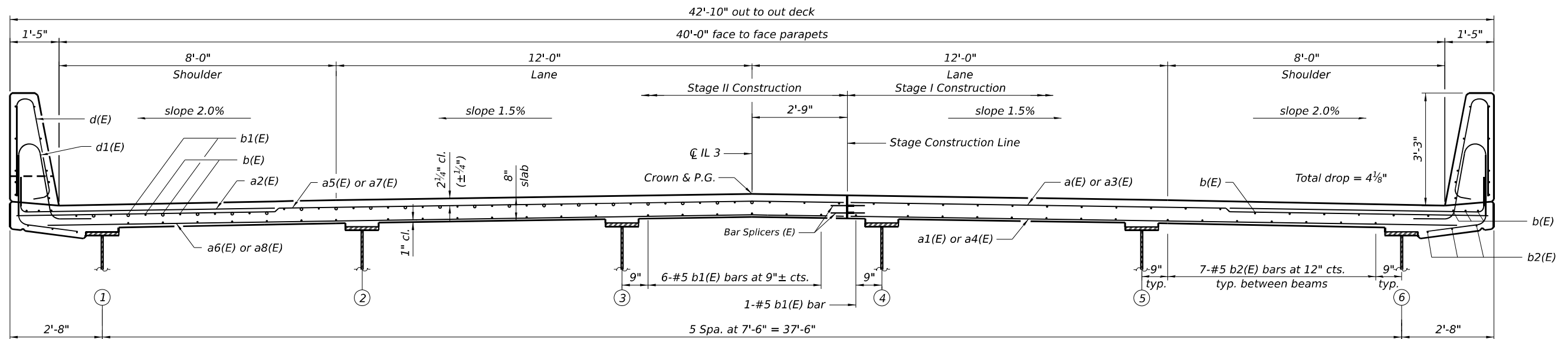
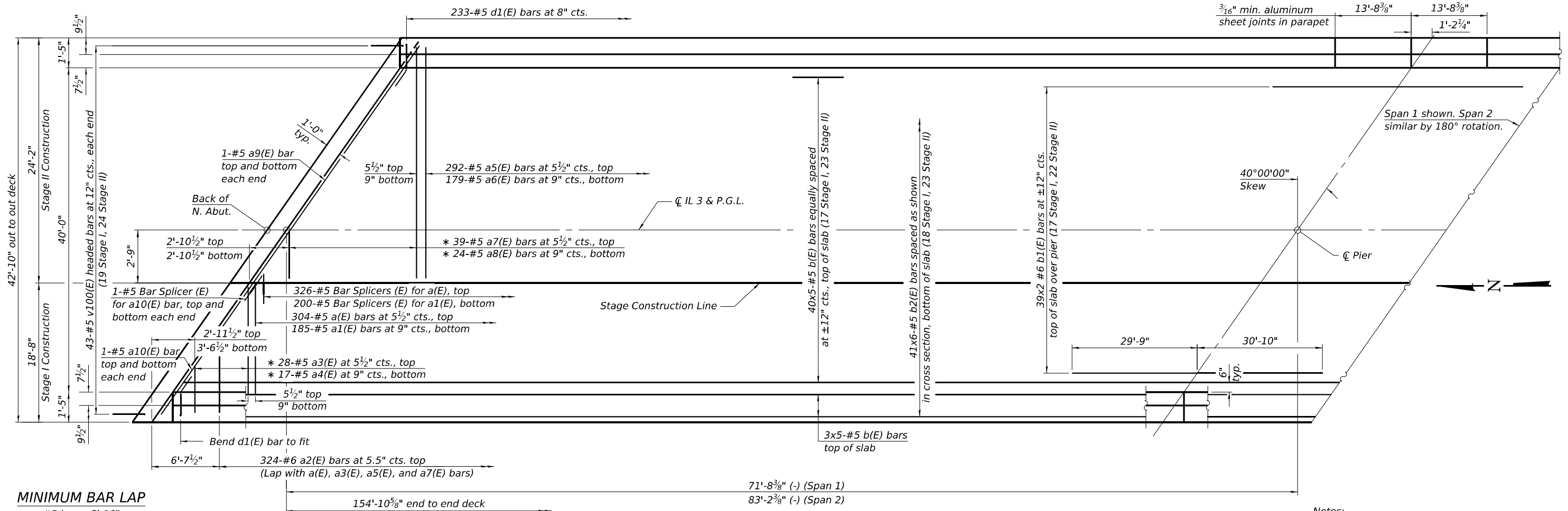
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TOP OF SOUTH APPROACH SLAB ELEVATIONS
STRUCTURE NO. 039-0083

SHEET 10 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	39
CONTRACT NO. 78967				
ILLINOIS FED. AID PROJECT				

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CROSS SECTION
(Looking South)

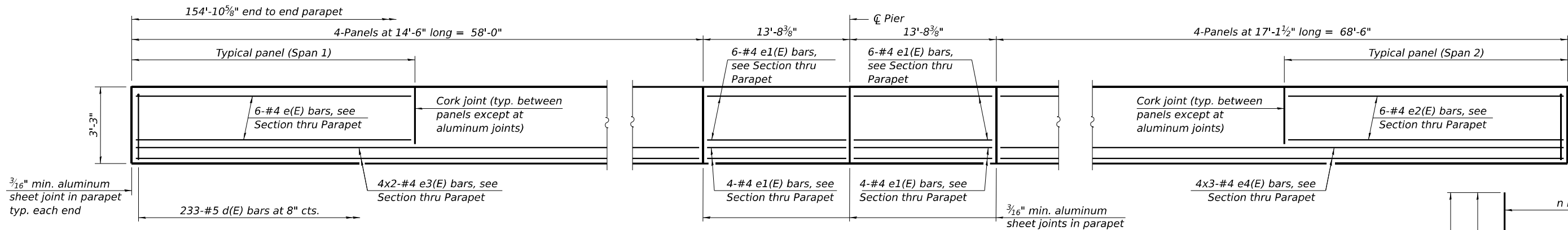
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE
STRUCTURE NO. 039-0083

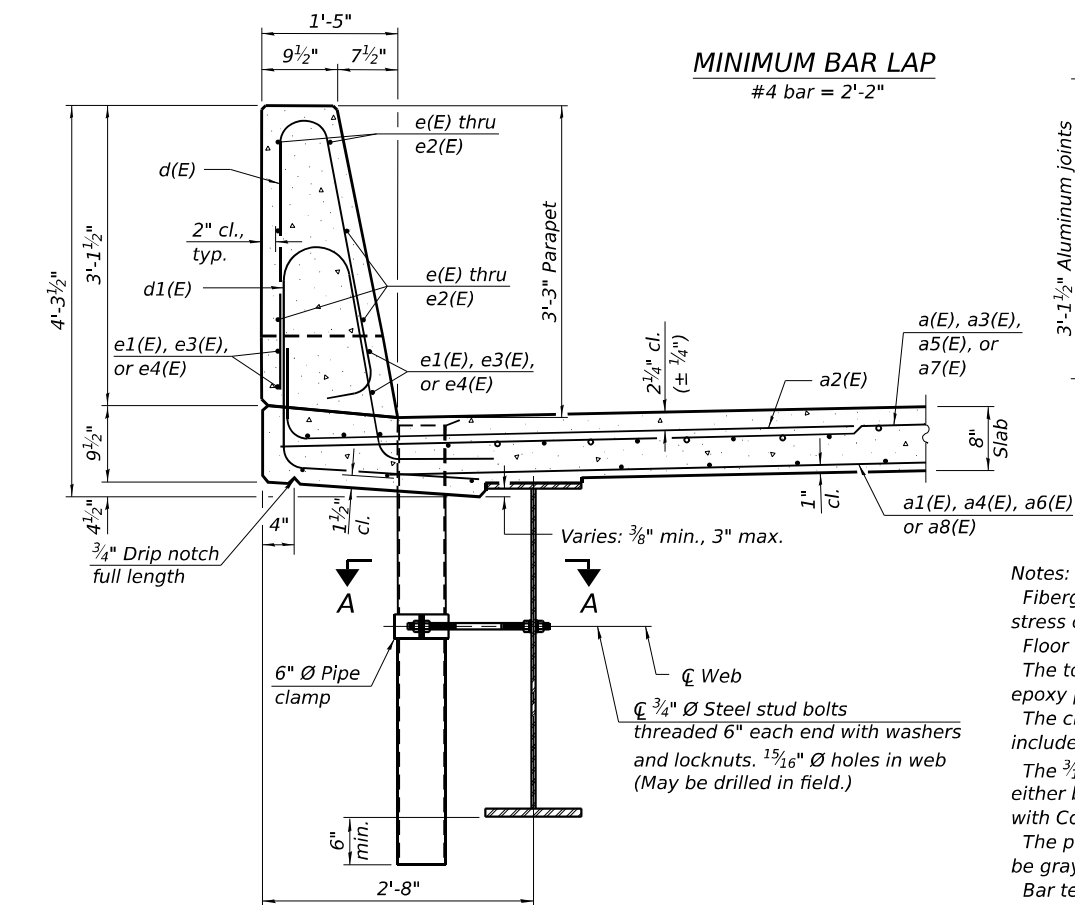
SHEET 11 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	40
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ILLINOIS FED. AID PROJECT				

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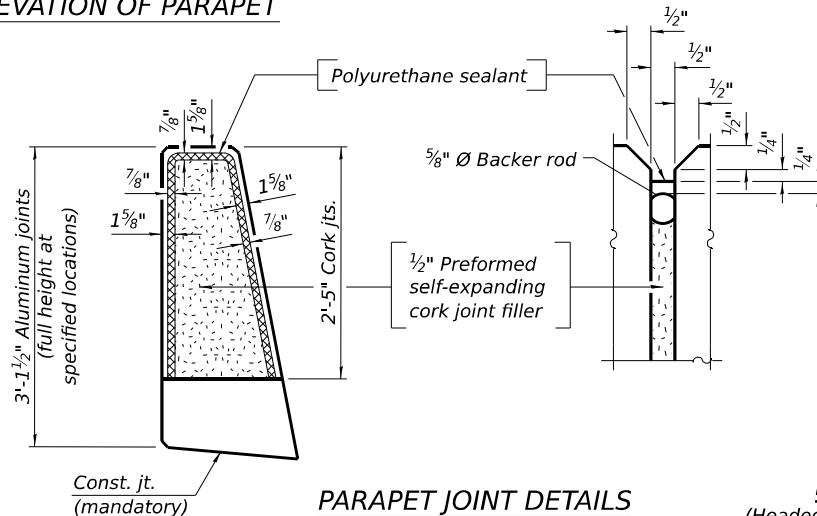


INSIDE ELEVATION OF PARAPET



MINIMUM BAR LAP

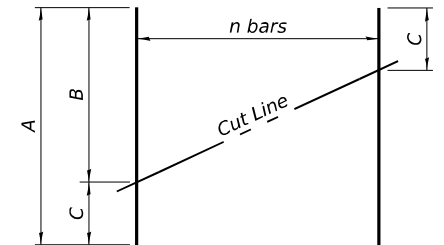
#4 bar = 2'-2"



PARAPET JOINT DETAILS

BAR CUTTING INFORMATION TABLE

Bar	n	A	B	C
a3(E)	28	20'-10"	17'-10"	3'-0"
a4(E)	17	20'-7"	17'-7"	3'-0"
a7(E)	39	26'-6"	23'-6"	3'-0"
a8(E)	24	26'-0"	23'-0"	3'-0"



FIELD CUTTING DIAGRAM

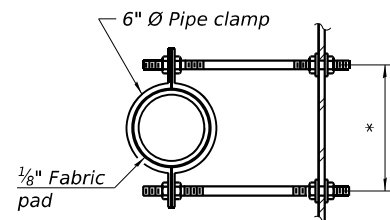
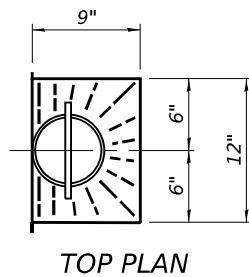
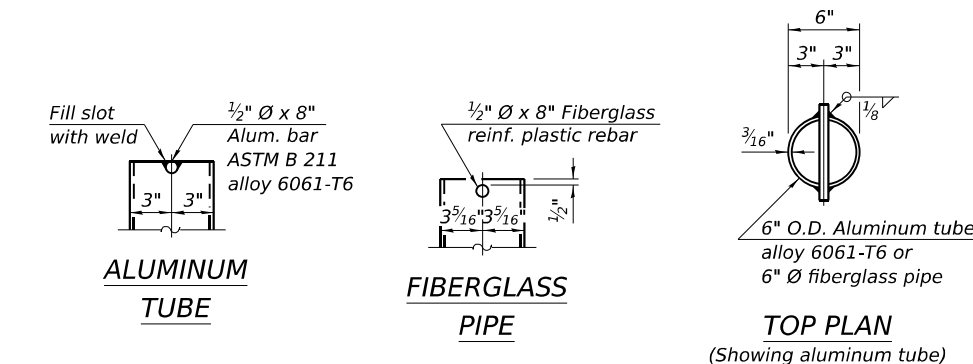
Order bars full length. Cut as shown and use remainder of bars in opposite end of deck.

SUPERSTRUCTURE BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a(E)	304	#5	18'-4"	—
a1(E)	185	#5	17'-10"	—
a2(E)	324	#6	8'-4"	—
a3(E)	28	#5	20'-10"	—
a4(E)	17	#5	20'-7"	—
a5(E)	292	#5	23'-10"	—
a6(E)	179	#5	23'-4"	—
a7(E)	39	#5	26'-6"	—
a8(E)	24	#5	26'-0"	—
a9(E)	4	#5	30'-5"	—
a10(E)	4	#5	23'-3"	—
b(E)	230	#5	34'-2"	—
b1(E)	78	#6	32'-10"	—
b2(E)	246	#5	29'-2"	—
d(E)	466	#5	6'-5"	—
d1(E)	466	#5	7'-11"	—
e(E)	48	#4	14'-2"	—
e1(E)	40	#4	13'-5"	—
e2(E)	48	#4	16'-10"	—
e3(E)	16	#4	30'-2"	—
e4(E)	24	#4	24'-5"	—
m10(E)	10	#6	31'-1"	—
m11(E)	32	#6	9'-4"	—
m12(E)	16	#6	3'-0"	—
m13(E)	8	#6	8'-0"	—
m14(E)	10	#6	23'-11"	—
s10(E)	82	#5	8'-6"	—
s11(E)	82	#5	12'-4"	—
v100(E)	86	#5	3'-1"	—
Reinforcement Bars, Epoxy Coated Concrete Superstructure			Lbs.	56,440
			Cu. Yds.	253.4

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

SECTION THRU PARAPET



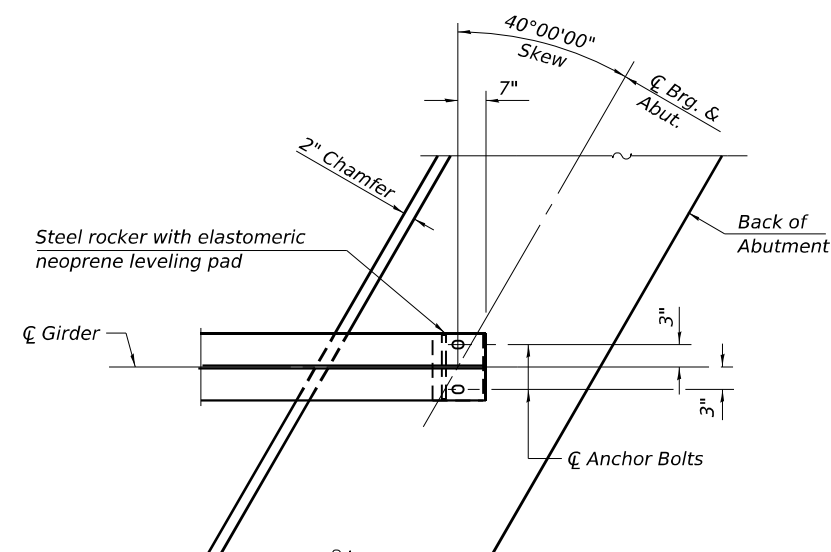
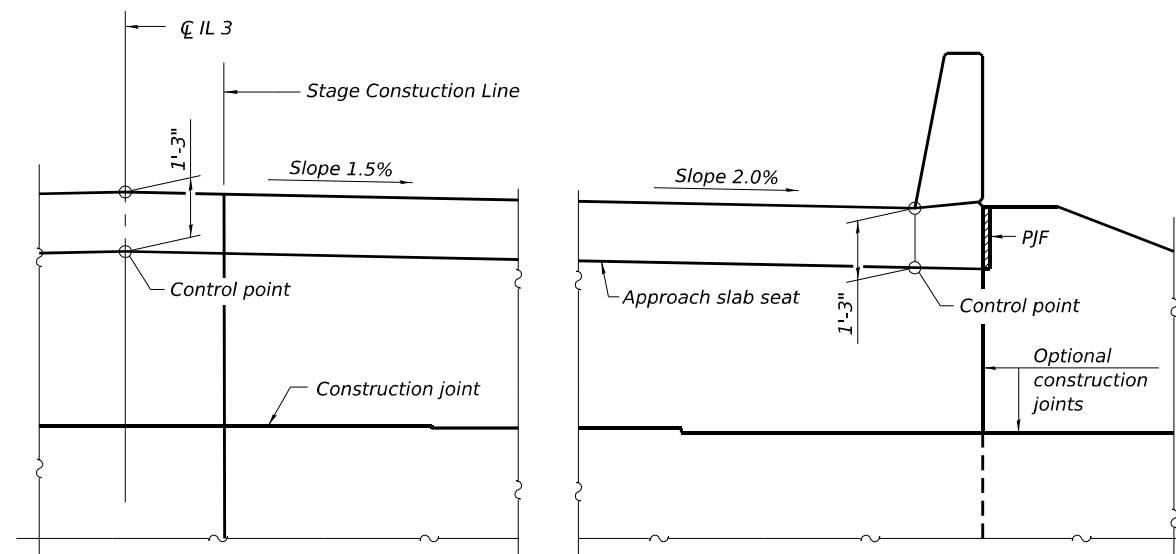
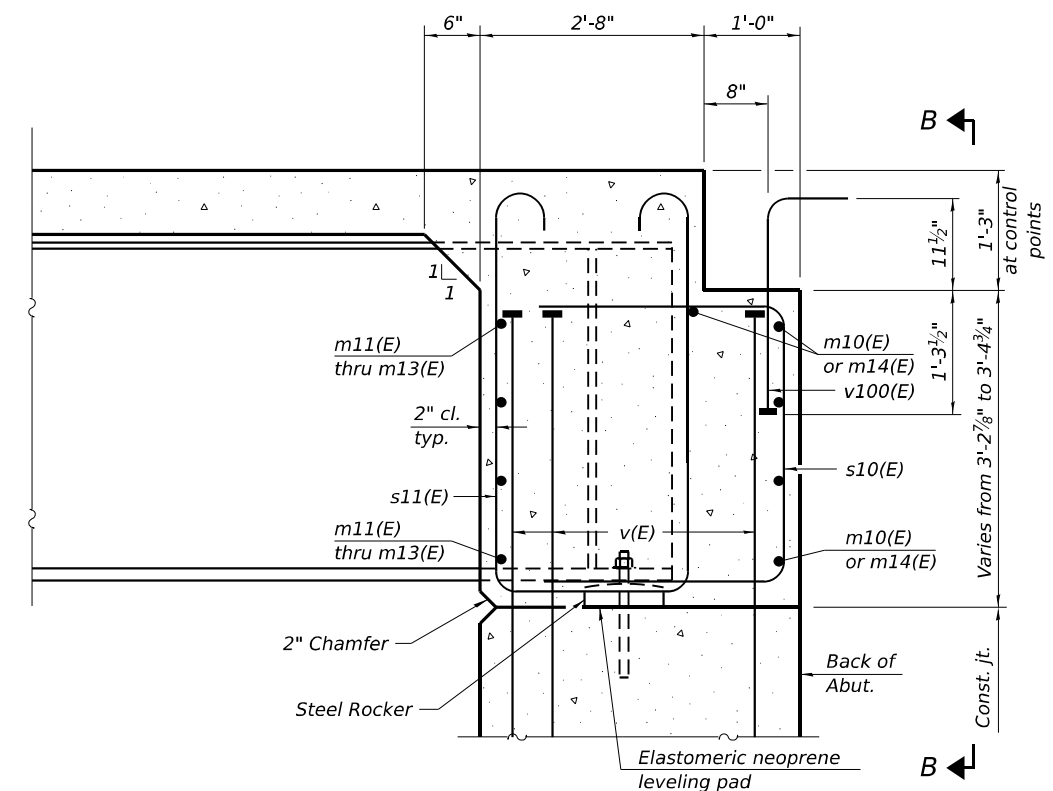
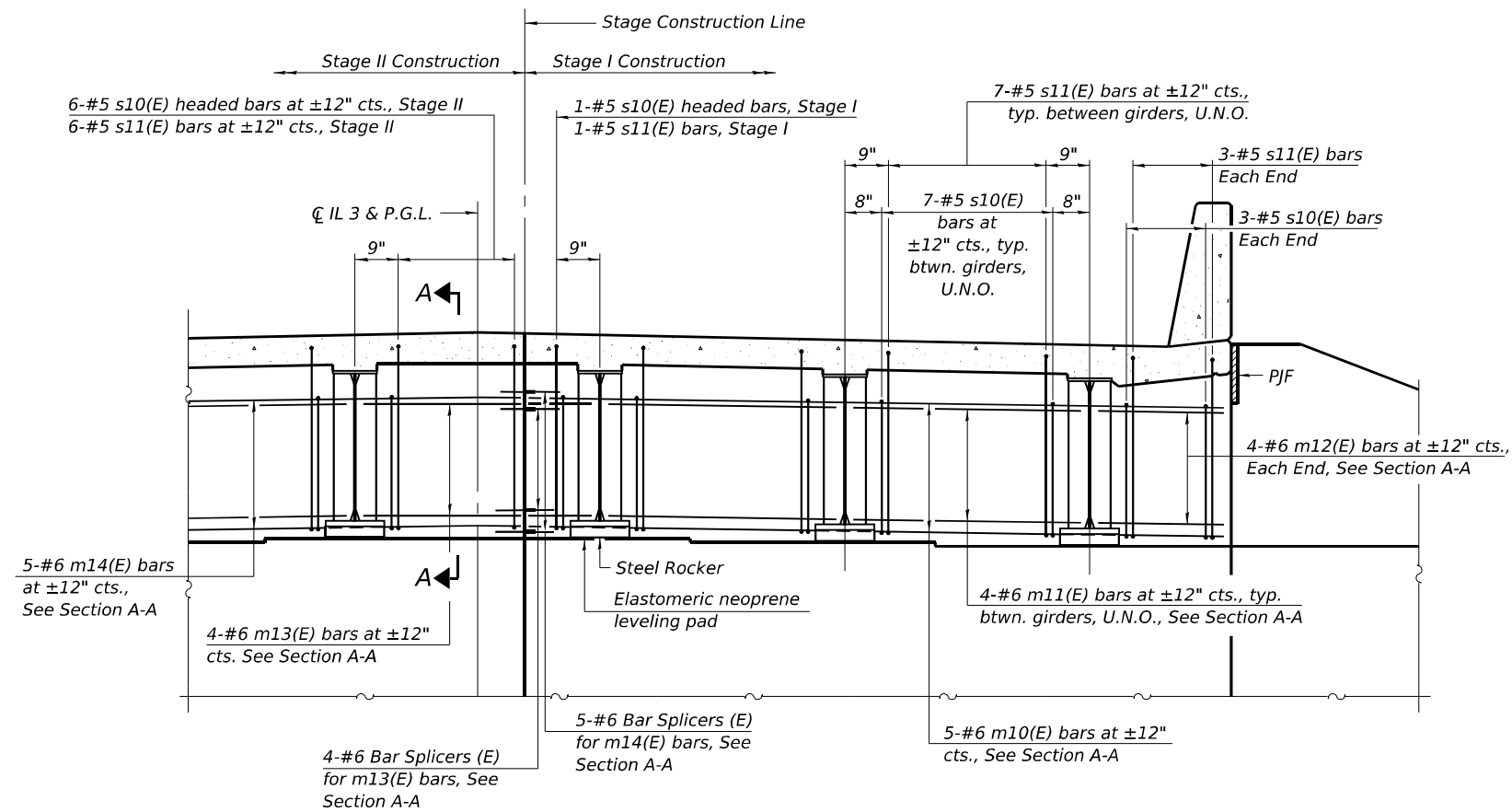
SECTION A-A

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS STRUCTURE NO. 039-0083

SHEET 12 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	41
CONTRACT NO. 78967				
ILLINOIS FED. AID PROJECT				



Notes:

See sheets 11 and 12 of 31 for superstructure details and Bill of Material.
See sheet 14 of 31 for PJF details.
The s10(E) and s11(E) bars shall be placed parallel to the girders.
Spacing for these bars shall be at right angles to the girders.
The approach slab seat shall have a constant slope determined from the control points shown.
For bar splicer details, see sheet 24 of 31.

DIA-SB-L

4-4-2025



QUIGG ENGINEERING INC
DESIGN FIRM REG. NO. 184.004721-0014

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

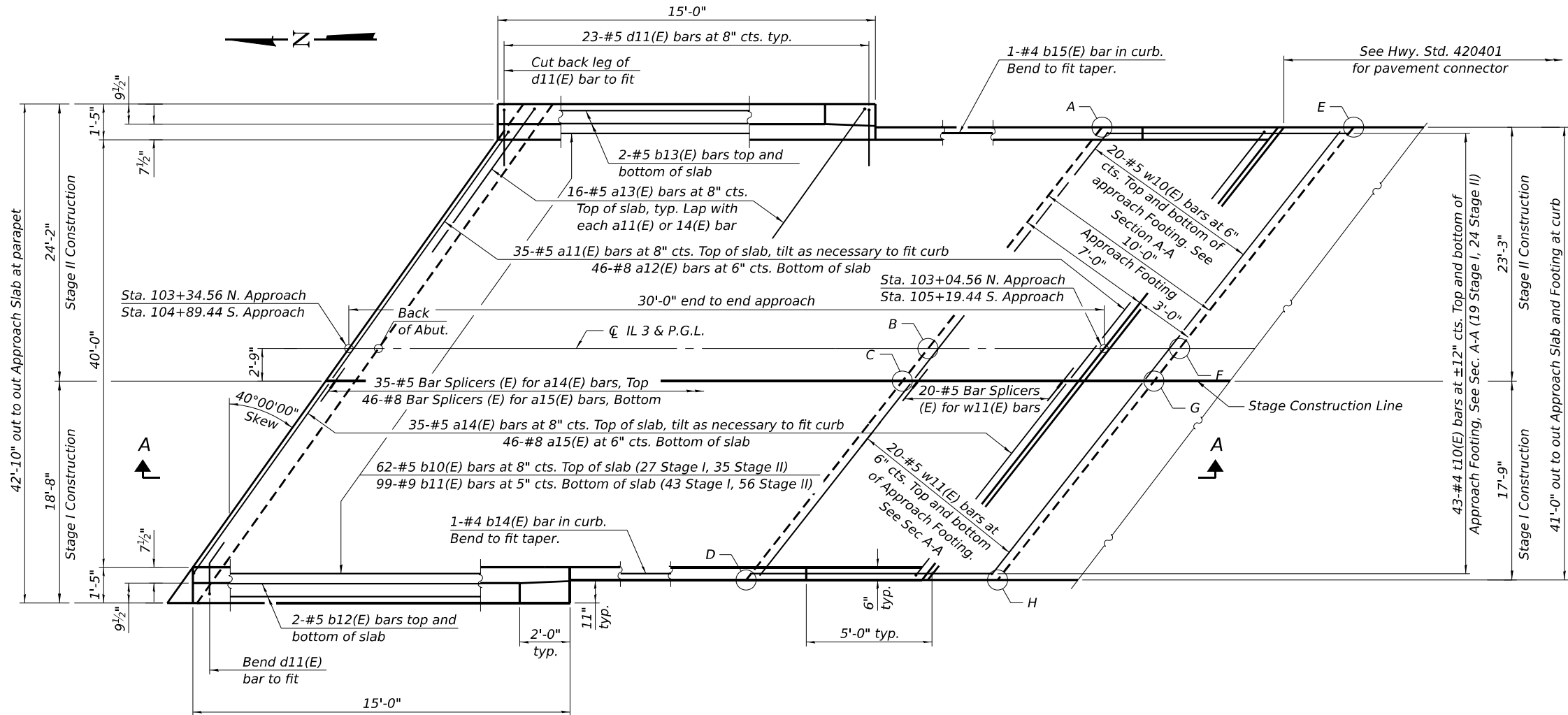
DIAPHRAGM DETAILS
STRUCTURE NO. 039-0083

SHEET 13 OF 31 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	42
		CONTRACT NO. 78967		
		ILLINOIS	FEED	AND PROJECT

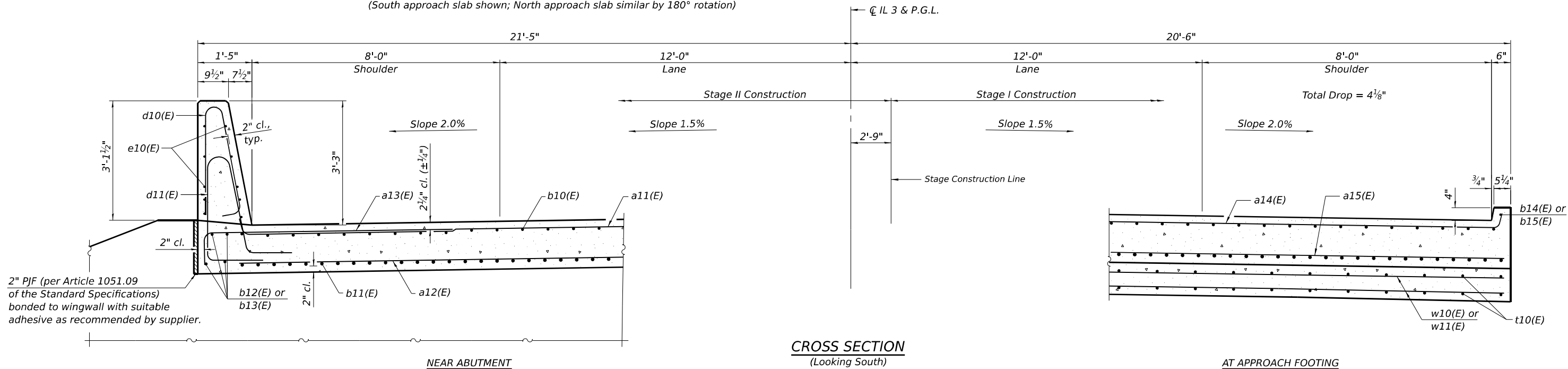
ILLINOIS	FED. AID PROJECT
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PLAN

(South approach slab shown; North approach slab similar by 180° rotation)



TOP AND BOTTOM ELEVATIONS
FOR APPROACH FOOTING

North Approach			South Approach		
Point/Location	Top	Bottom	Point/Location	Top	Bottom
A - SE	363.54	362.71	A - NE	363.54	362.71
B - S C	363.89	363.06	B - N C	363.89	363.06
C - S SCL	363.85	363.01	C - N SCL	363.85	363.01
D - SW	363.54	362.71	D - NW	363.54	362.71
E - NE	363.54	362.71	E - SE	363.54	362.71
F - N C	363.89	363.06	F - S C	363.89	363.06
G - N SCL	363.85	363.01	G - S SCL	363.85	363.01
H - NW	363.54	362.71	H - SW	363.54	362.71

BAIA-CIP-39CS-L(>30°)

4-4-2025

(Sheet 1 of 2)



QUIGG ENGINEERING INC.
DESIGN FIRM REG. NO. 184.004721-0014

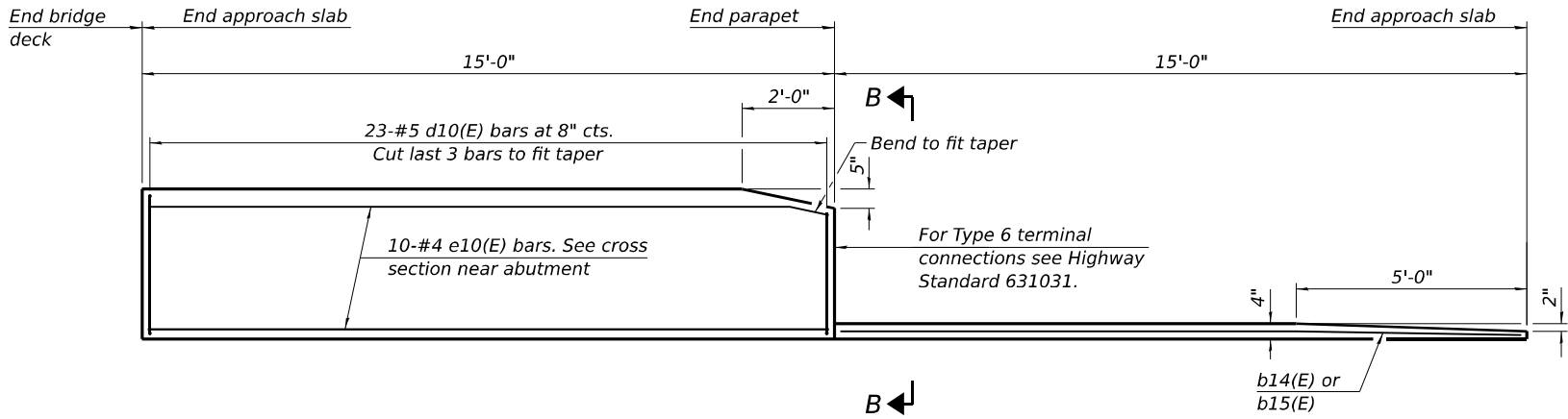
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

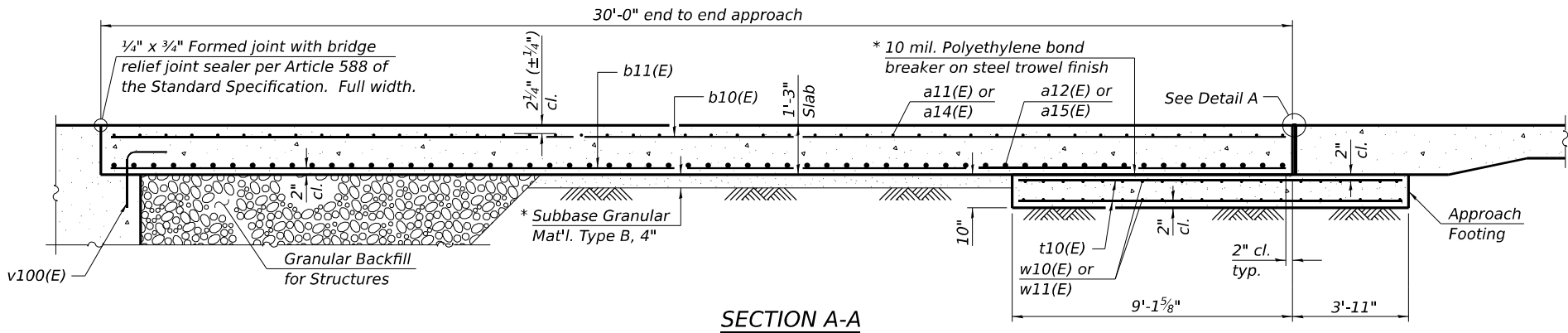
APPROACH SLAB DETAILS
STRUCTURE NO. 039-0083

SHEET 14 OF 31 SHEETS

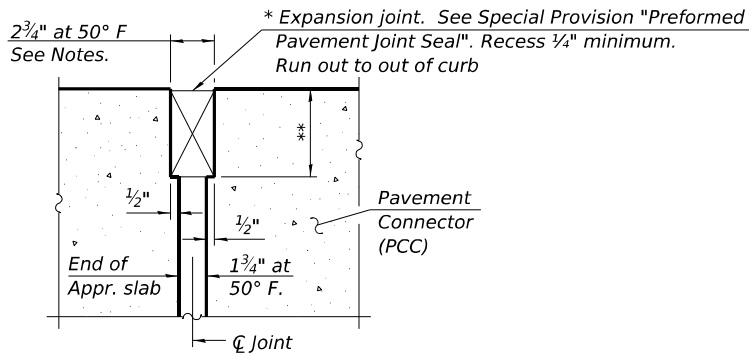
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	43
CONTRACT NO. 78967				
ILLINOIS FED. AID PROJECT				



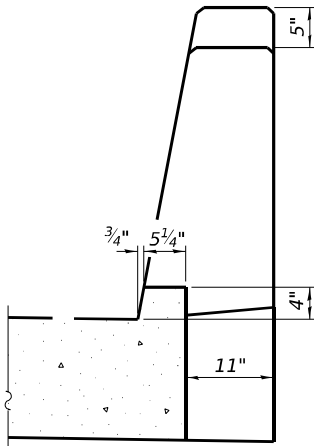
INSIDE ELEVATION OF PARAPET AND CURB



SECTION A-A

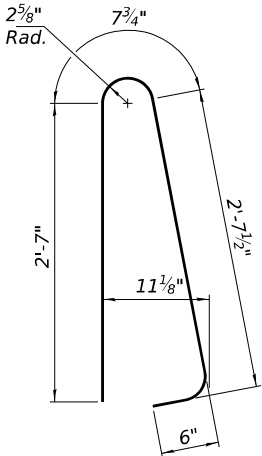


DETAIL A
(at Rt. L's)

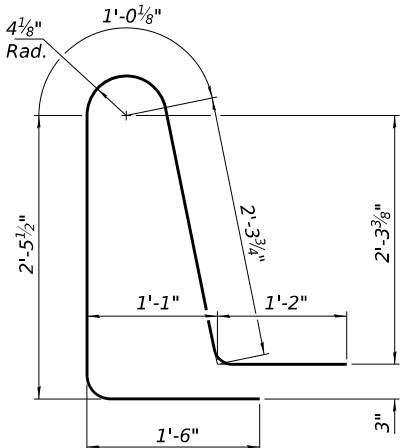


VIEW B-B

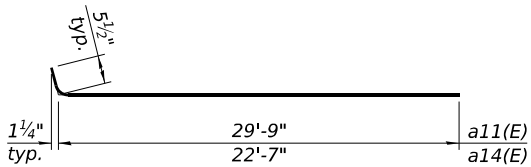
Notes:
The joint opening shall be adjusted for temperature per Article 520.04 of the Standard Specifications. However, since this detail is for jointless structures, the length of bridge used to calculate the adjustment shall be equal to half the total bridge length plus the length of the bridge approach slab.
Parapet concrete shall be paid for as Concrete Superstructure.
Approach slab shall be paid for as Concrete Superstructure (Approach Slab).
Approach footing concrete shall be paid for as Concrete Structures.
The approach footing maximum applied service bearing pressure (Qmax) = 2.0 ksf.
Cost of excavation for approach footing included with Concrete Structures.
For Granular Backfill for Structures and drainage treatment details, see sheet 2 of 31.
For bar splicer details, see sheet 24 of 31.



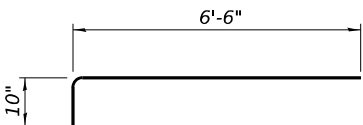
BAR d10(E)



BAR d11(E)



BARS a11(E) and a14(E)



BAR a13(E)

TWO APPROACHES
BILL OF MATERIAL

Bar	No.	Size	Length	Shape
a11(E)	70	#5	30'-3"	
a12(E)	92	#8	29'-10"	
a13(E)	32	#5	7'-4"	
a14(E)	70	#5	23'-1"	
a15(E)	92	#8	22'-8"	
b10(E)	62	#5	29'-8"	
b11(E)	99	#9	29'-8"	
b12(E)	8	#5	15'-1"	
b13(E)	8	#5	14'-6"	
b14(E)	2	#4	14'-2"	
b15(E)	2	#4	14'-8"	
d10(E)	92	#5	6'-5"	
d11(E)	92	#5	8'-6"	
e10(E)	40	#4	14'-8"	
t10(E)	172	#4	12'-7"	
w10(E)	40	#5	29'-11"	
w11(E)	40	#5	22'-8"	
Concrete Superstructure			Cu. Yd.	7.8
Concrete Superstructure (Approach Slab)			Cu. Yd.	117.0
Concrete Structures			Cu. Yd.	33.1
Reinforcement Bars, Epoxy Coated			Pound	34,690

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

(Sheet 2 of 2)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROACH SLAB DETAILS
STRUCTURE NO. 039-0083

SHEET 15 OF 31 SHEETS

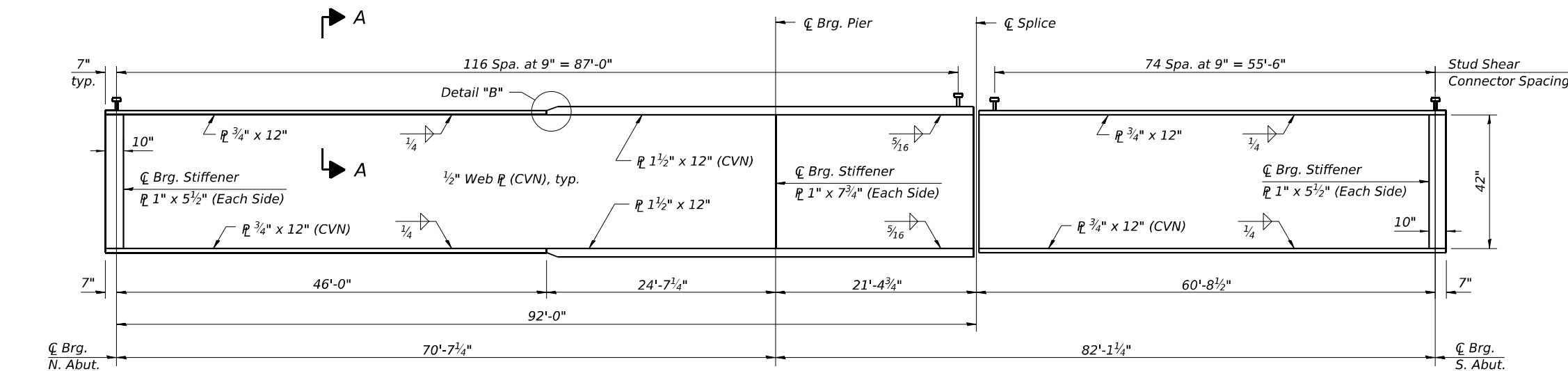
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ILLINOIS FED. AID PROJECT				

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QUIGG ENGINEERING INC.
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TOP OF WEB ELEVATION
(For Fabrication Only)

Location	Girder 1	Girder 2	Girder 3	Girder 4	Girder 5	Girder 7
☐ Brg. N. Abut.	364.00	364.15	364.26	364.26	364.15	364.00
☐ Brg. Pier	363.88	364.03	364.14	364.14	364.03	363.88
Field Splice	363.84	363.99	364.10	364.10	364.99	363.84
☐ Bra. S. Abut.	364.00	364.15	364.26	364.26	364.15	364.00

For cross frame details, field splice details, and Detail A and C see sheet 17 of 31.

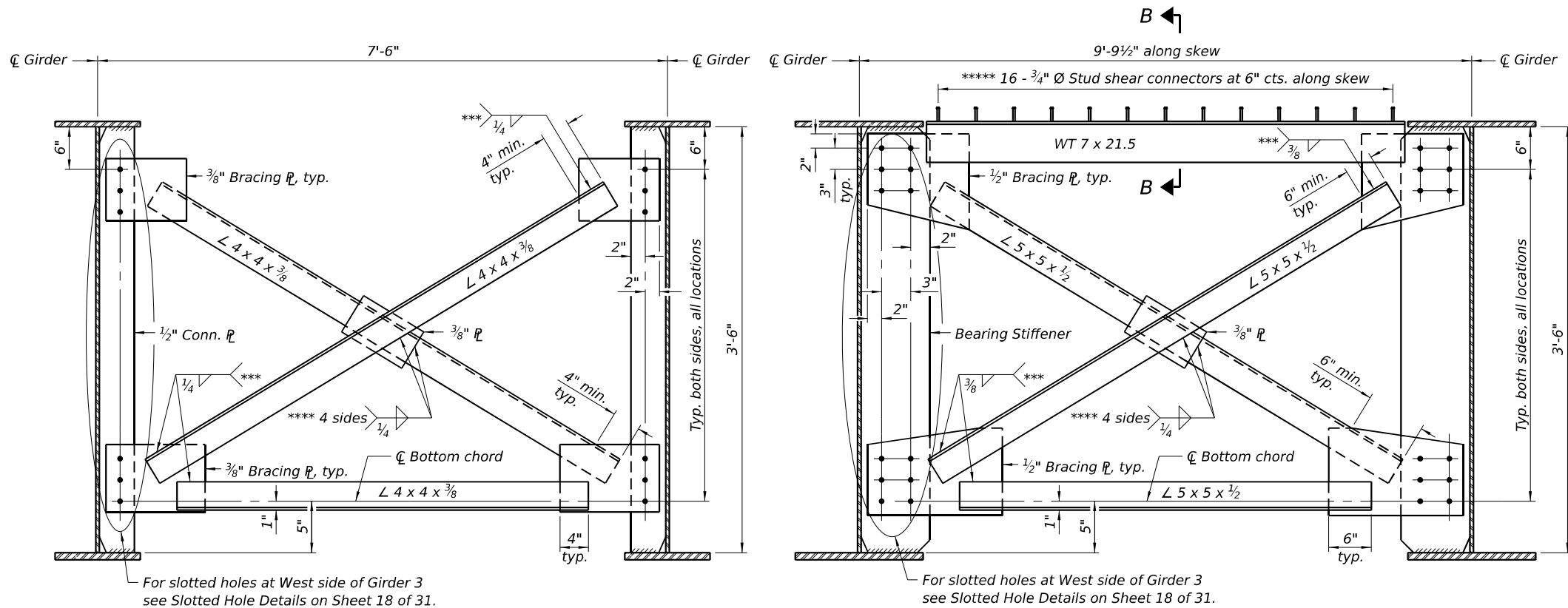
All girders, bearing stiffeners, and splice plates, including filler plates, shall be AASHTO M270 Grade 50.

All cross frames shall be installed as steel is erected and secured with erection pins and bolts except as otherwise noted. Individual cross frames at supports may be temporarily disconnected to install bearing anchor bolts.

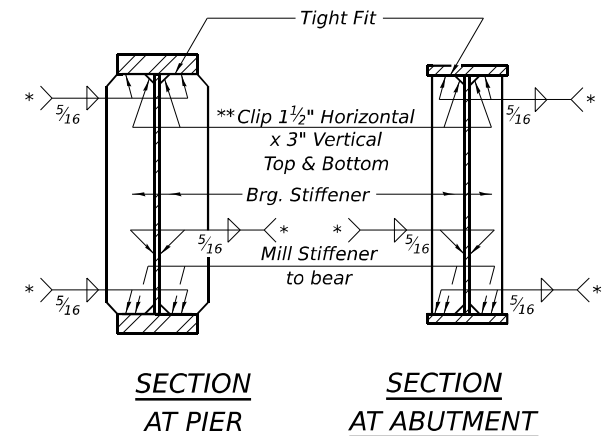
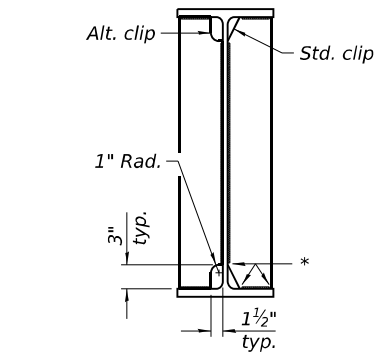
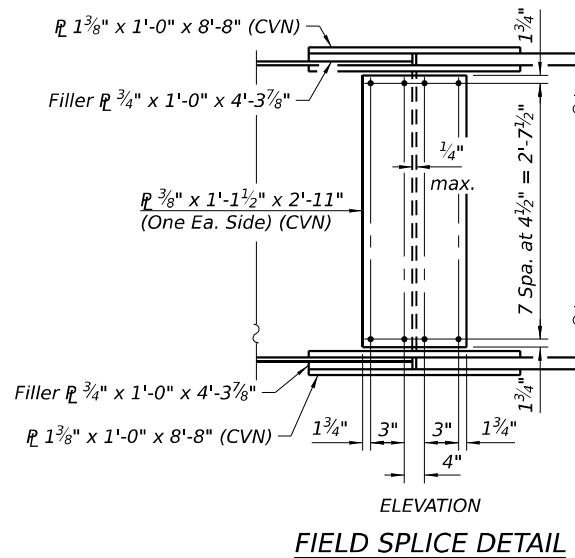
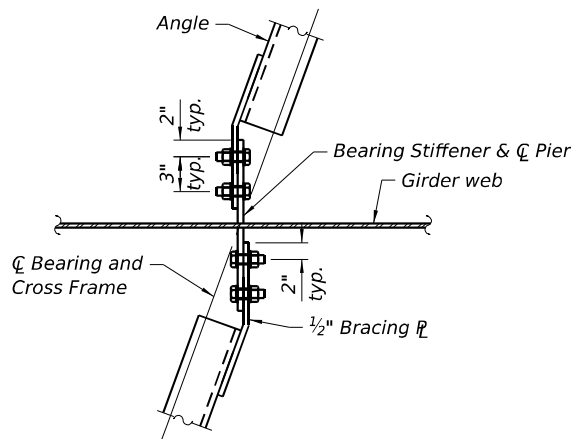
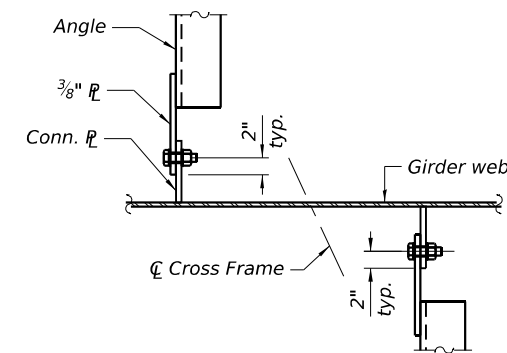
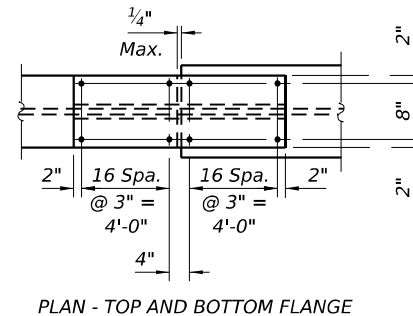
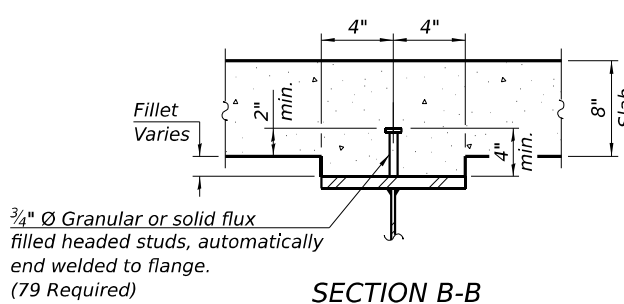
Girders shall be braced for stability during erection and remain braced until deck is poured and cured.

Load carrying components designated "CVN" shall conform to the Charpy-V-Notch Impact Energy Requirements, Zone 2.





- * Stop welds $\frac{1}{4}$ " ($\pm \frac{1}{8}$ ") from edges as shown, typ.
- ** Clip may be rounded for ease of shop painting.
- *** Fillet weld angles along 3 sides on one face of gusset plate; however, if cross-frames are galvanized, weld all-around.
- **** If cross-frames are galvanized, weld all-around.
- ***** At the Stage Construction Line, omit the stud shear connectors in the Stage I deck. 15 stud shear connectors are required in the Stage II deck.



Notes:

Detail $\frac{15}{16}$ " $\emptyset$ holes for all $\frac{7}{8}$ " $\emptyset$ H.S. bolts for Field Splices.

Detail $\frac{15}{16}$ " $\emptyset$ holes for all $\frac{3}{4}$ " $\emptyset$ H.S. bolts for Interior Cross-Frames, except as noted. $\frac{13}{16}$ " x 2" vertical slotted holes shall be provided at bracing plates on the south side of Girder 4 to accommodate the differential deflection between Girder 3 and 4 due to stage construction. The bolts in slotted holes shall be finger tightened until the second stage pour is completed. Position slots so bolts move from one end with no concrete load to the opposite end under the deck load. The holes shall be positioned to allow maximum bolt displacement without laterally stressing the girders. See Slotted Hole Detail on Sheet 18 of 31.

Two hardened washers required for each set of oversized holes at the Interior Cross-Frames.

See Sheets 16 of 31 for Detail A and C location and additional details.

All girders, bearing stiffeners, and splice plates, including filler plates, shall be AASHTO M270 Grade 50.

Load carrying components designated "CVN" shall conform to the Charpy-V-Notch Impact Energy Requirements, Zone 2.

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QUIGG ENGINEERING INC
DESIGN FIRM REG. NO. 184.004721-0014

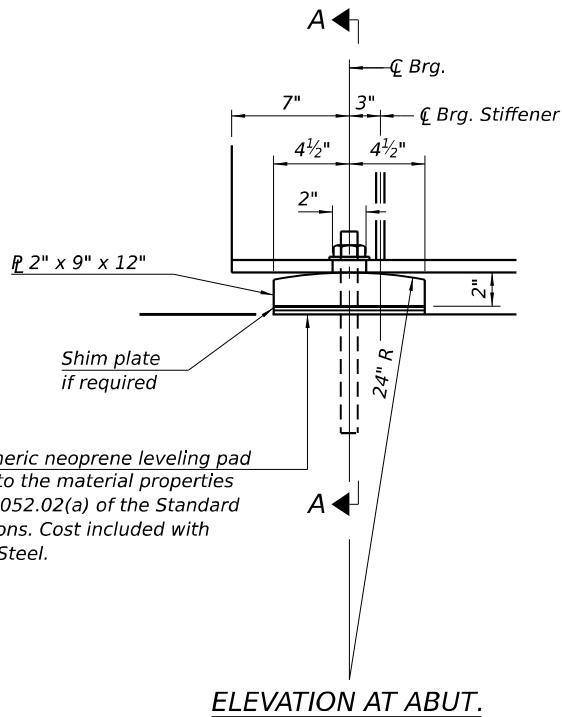
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BEARING DETAILS
STRUCTURE NO. 039-0083

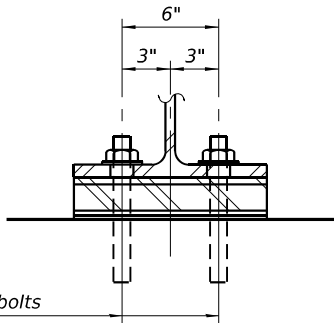
SHEET 19 OF 31 SHEETS

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	48
CONTRACT NO. 78967				
ILLINOIS		FED. AID PROJECT		



1/8" Elastomeric neoprene leveling pad according to the material properties of Article 1052.02(a) of the Standard Specifications. Cost included with Structural Steel.

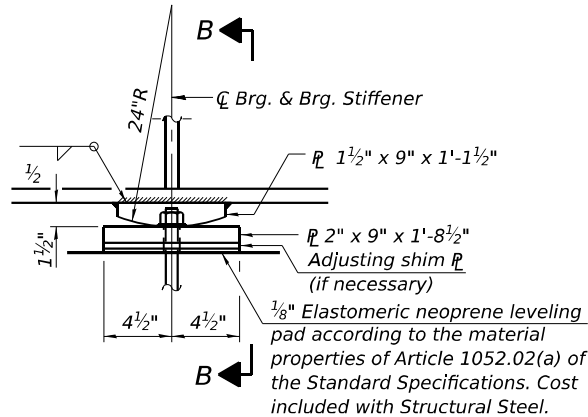
ELEVATION AT ABUT.



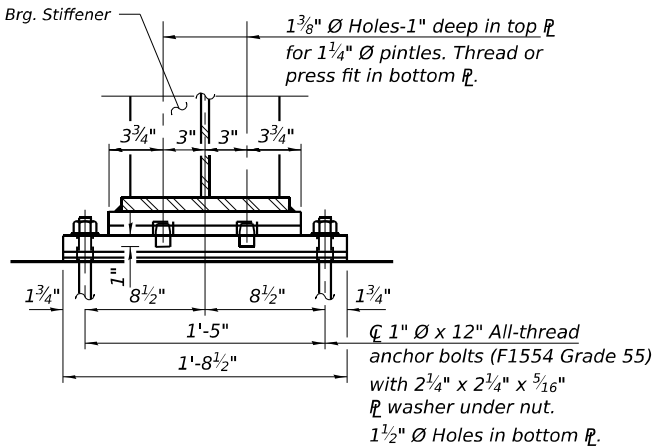
1" $\varnothing$ x 12" All-thread anchor bolts (Grade 55) with 2 1/4" x 2 1/4" x 5/16" $\varnothing$ washers under nuts. 1 3/8" x 2" slotted holes in flange. 1 1/2" $\varnothing$ Holes in bearing plate.

SECTION A-A

FIXED BEARING AT ABUTMENTS
(12 Required)

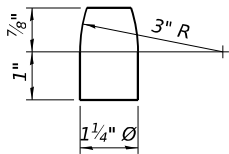


ELEVATION AT PIER



SECTION B-B

FIXED BEARING AT PIER
(6 Required)

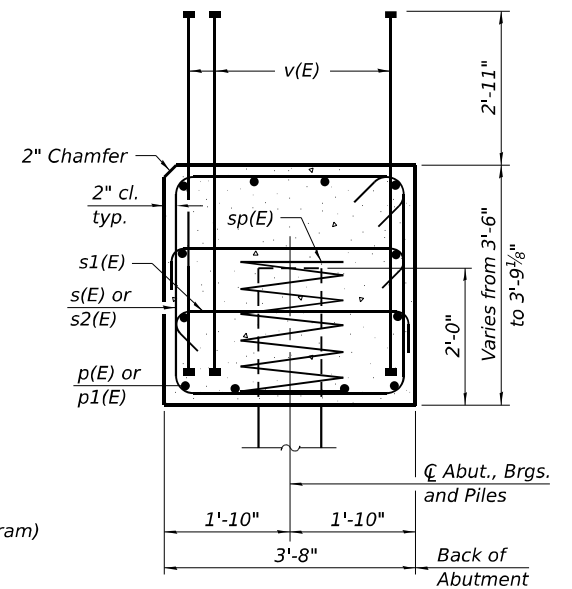
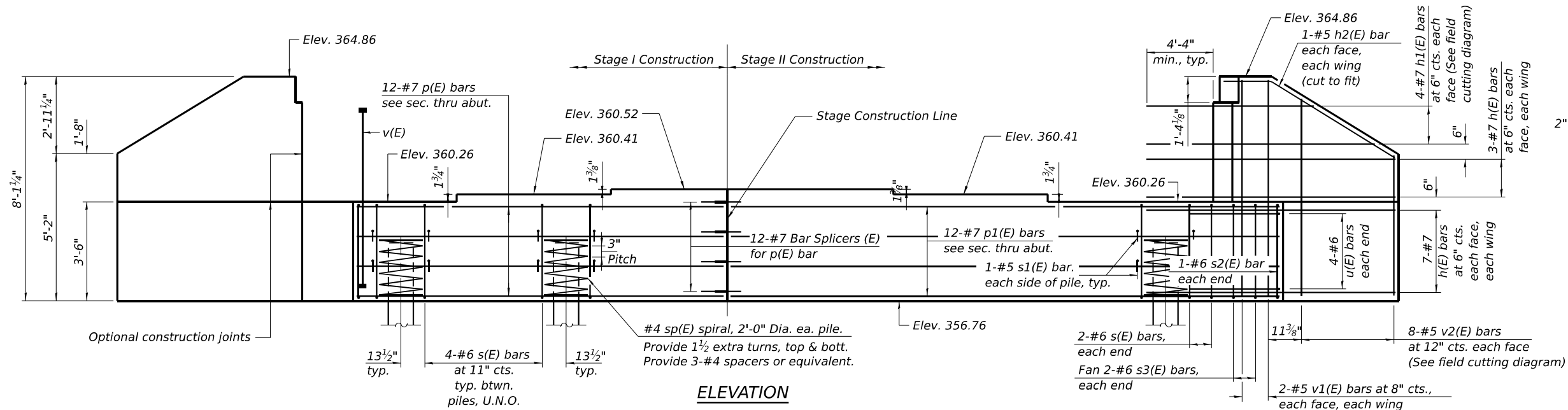


PINTLE

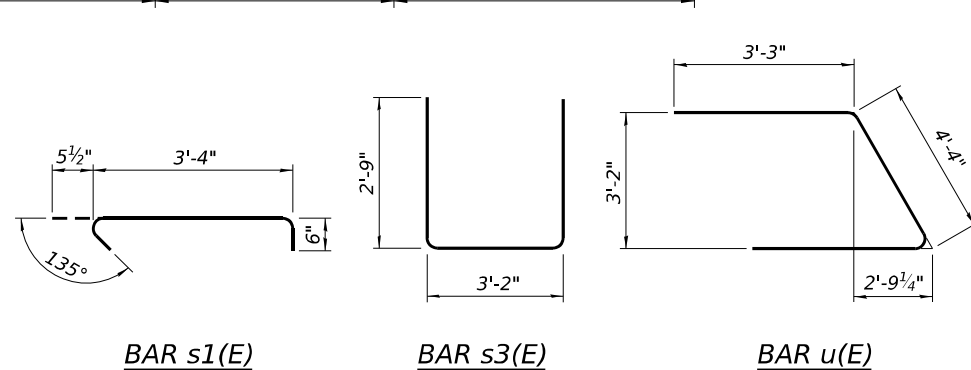
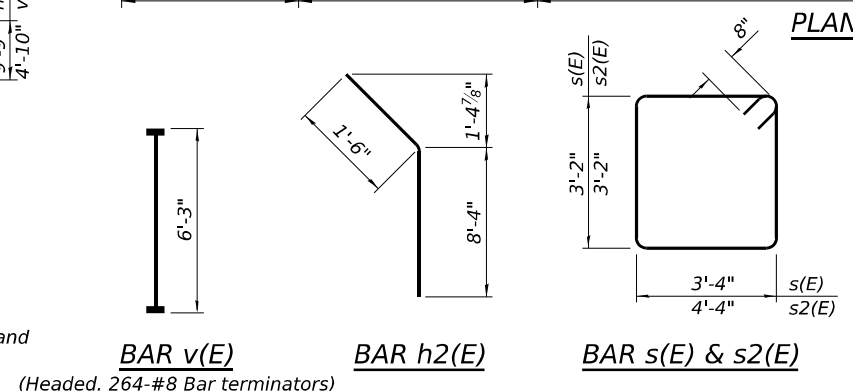
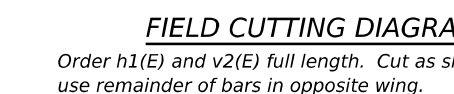
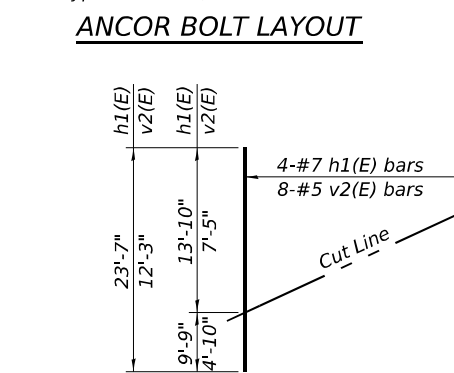
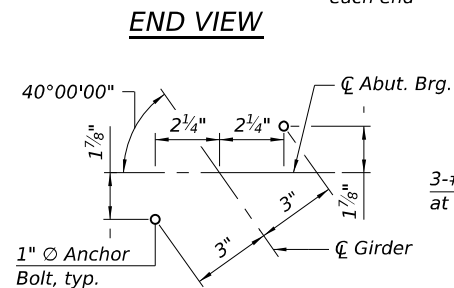
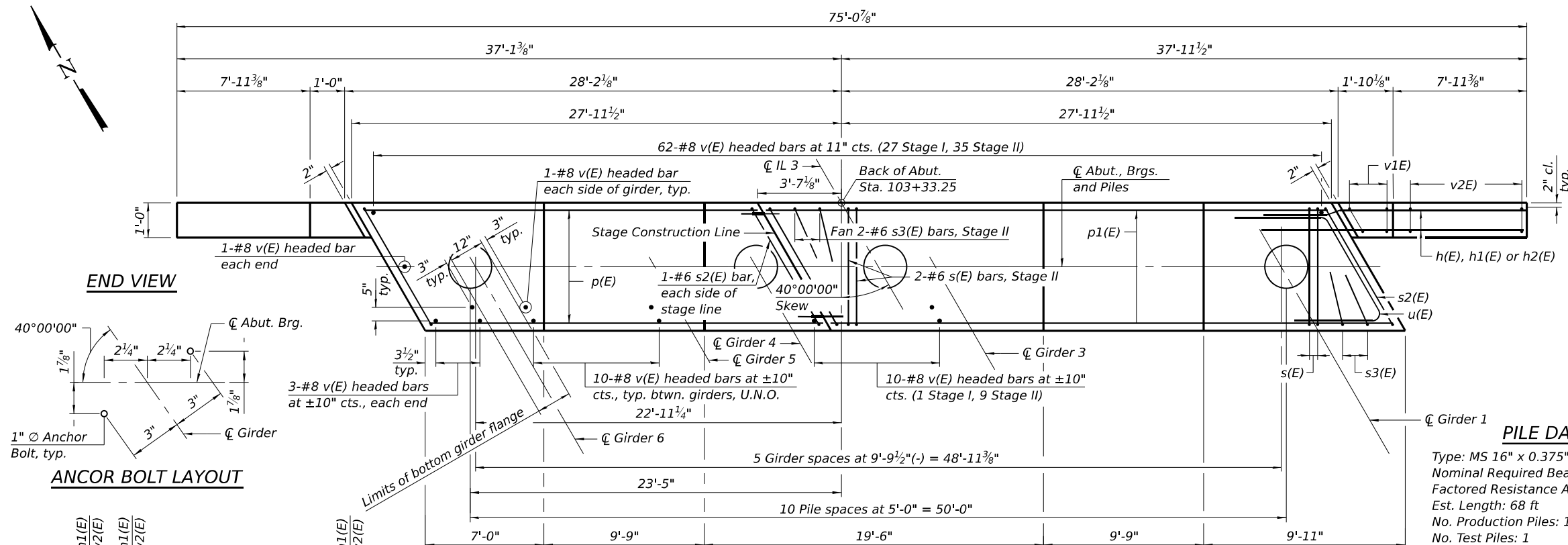
Notes:
Anchor bolts at all supports shall be installed as each member is erected unless an equivalent temporary means of lateral restraint is used.
The structural steel plates and pintles of the Bearing Assembly shall conform to the requirements of AASHTO M270 Grade 50.
Two 1/8 in. adjusting shims shall be provided for each bearing in addition to all other plates or shims and placed as shown on bearing details.
At fixed bearings all bearing plates and pintles shall be metalized. See special provision for "Metalizing of Structural Steel."
All anchor bolts, nuts, and washers shall be galvanized according to AASHTO M111 or M232 as applicable.
The anchor bolt sizes and grades shown constitute a calculated seismic structural fuse. Substitution of higher diameter and/or grade anchor bolts will not be allowed.

BILL OF MATERIAL

Item	Unit	Total
Anchor Bolts, 1"	Each	36



SEC. THRU ABUT.
Dimensions at right angles to abutment.

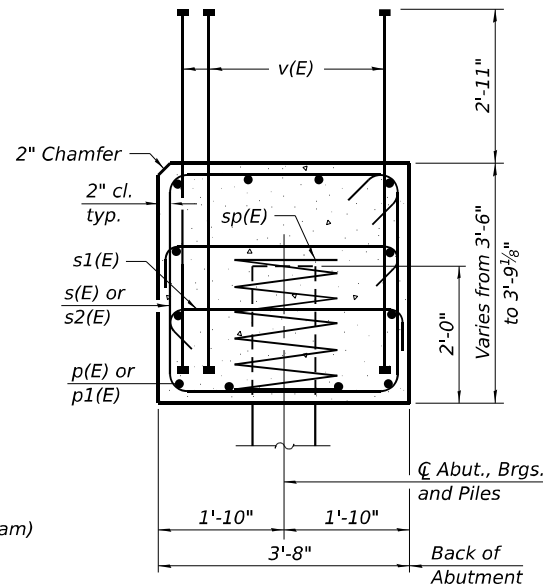
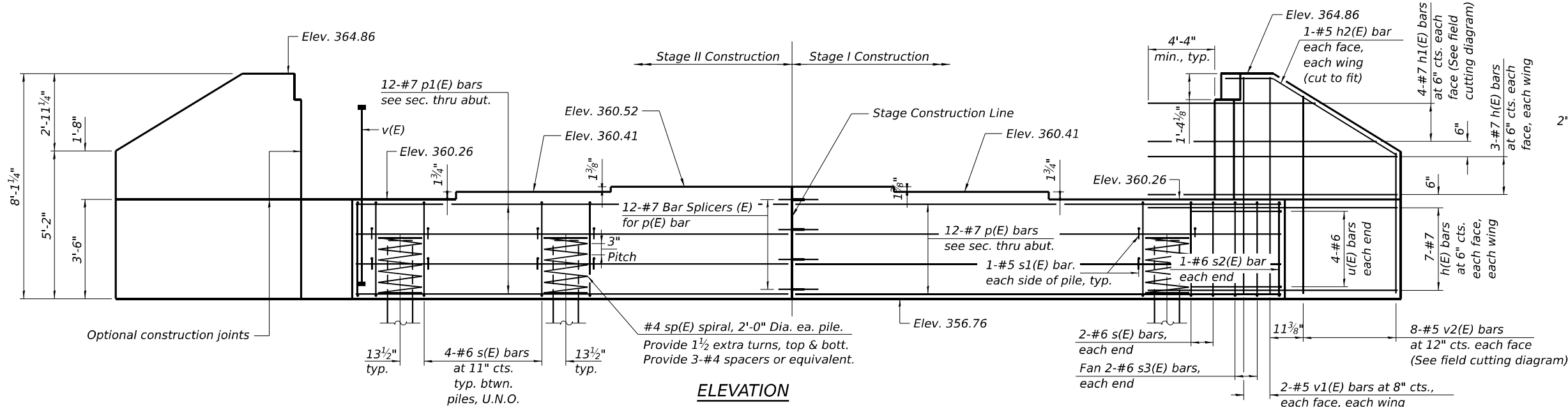


<u>BILL OF MATERIAL</u>				
Bar	No.	Size	Length	Shape
h(E)	40	#7	14'-2"	
h1(E)	8	#7	23'-7"	
h2(E)	4	#5	9'-10"	
p(E)	12	#7	24'-0"	
p1(E)	12	#7	31'-1"	
s(E)	42	#6	14'-4"	
s1(E)	44	#5	4'-4"	
s2(E)	4	#6	16'-4"	
s3(E)	6	#6	8'-1"	
sp(E)	11	#4	2'-0"	
u(E)	8	#6	10'-10"	
v(E)	132	#8	6'-3"	
v1(E)	8	#5	7'-9"	
v2(E)	16	#5	12'-3"	
Structure Excavation			Cu. Yd.	280
Concrete Structures			Cu. Yd.	32.6
Reinforcement Bars, Epoxy Coated			Pound	7,330
Furnishing Metal Shell Piles 16" x 0.375"			Foot	680
Driving Piles			Foot	680
Test Pile Metal Shells			Each	1

* Length is height of spiral.

Notes:
 Pour steps monolithically with cap.
 For details of piles see sheet 23 of 31.
 Bar terminators, paid for separately.
 See Total Bill of Material.
 For bar splicer details, see sheet 24
 of 31.

MODEL: Default
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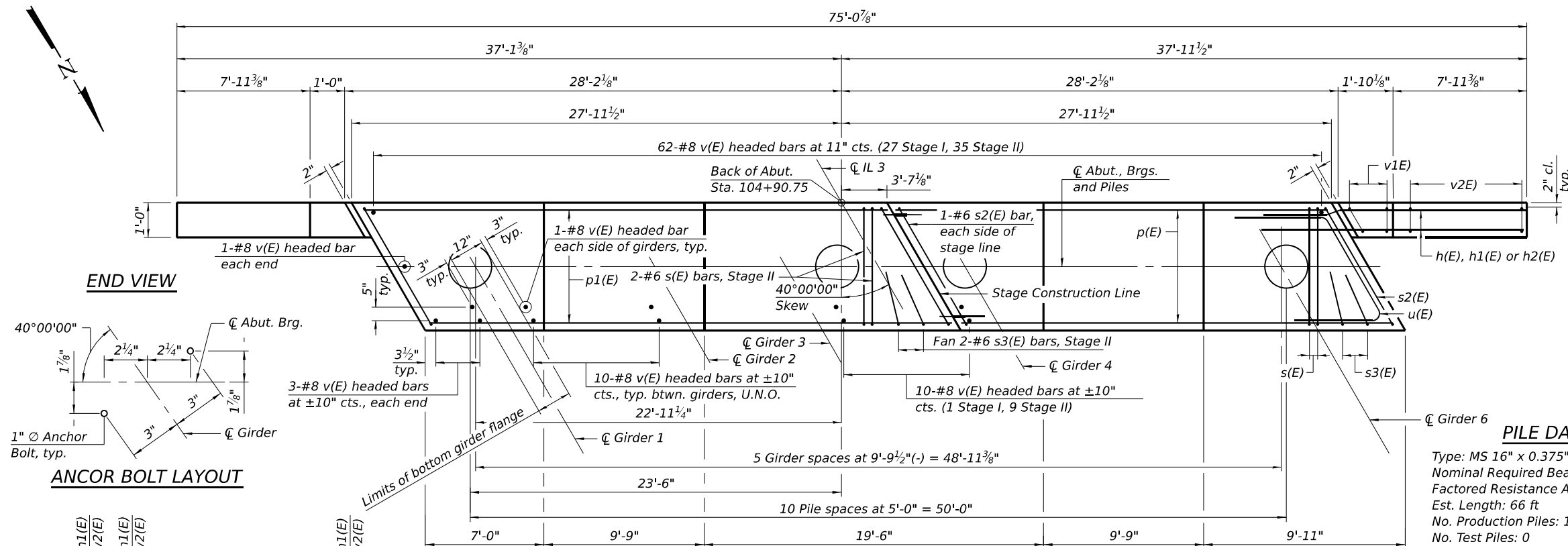


BILL OF MATERIAL

Bar	No.	Size	Length	Shape
h(E)	40	#7	14'-2"	
h1(E)	8	#7	23'-7"	
h2(E)	4	#5	9'-10"	
p(E)	12	#7	24'-0"	
p1(E)	12	#7	31'-1"	
s(E)	42	#6	14'-4"	
s1(E)	44	#5	4'-4"	
s2(E)	4	#6	16'-4"	
s3(E)	6	#6	8'-1"	
* sp(E)	11	#4	2'-0"	W
u(E)	8	#6	10'-10"	
v(E)	132	#8	6'-3"	
v1(E)	8	#5	7'-9"	
v2(E)	16	#5	12'-3"	
Structure Excavation			Cu. Yd.	280
Concrete Structures			Cu. Yd.	32.6
Reinforcement Bars, Epoxy Coated			Pound	7,330
Furnishing Metal Shell Piles 16" x 0.375"			Foot	726
Driving Piles			Foot	726

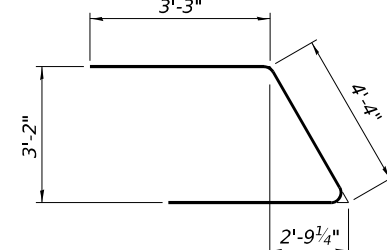
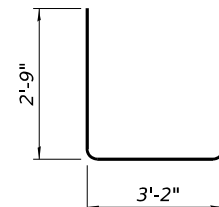
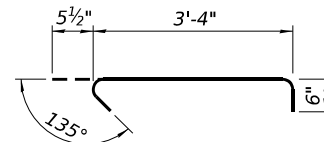
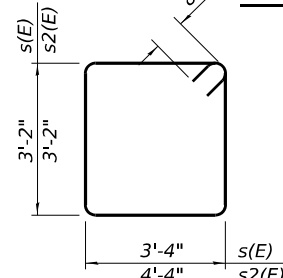
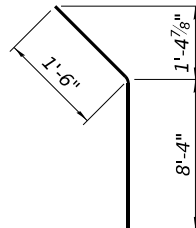
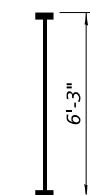
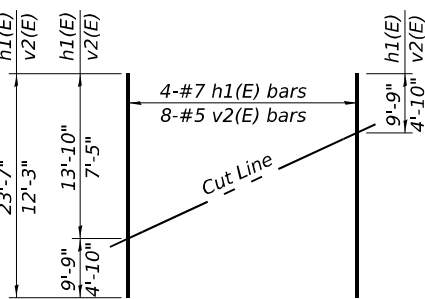
* Length is height of spiral.

Notes:
Pour steps monolithically with cap.
For details of piles see sheet 23 of 31.
Bar terminators, paid for separately.
See Total Bill of Material.
For bar splicer details, see sheet 24 of 31.



PILE DATA

Type: MS 16" x 0.375"
Nominal Required Bearing: 782 kips
Factored Resistance Available: 430 kips
Est. Length: 66 ft
No. Production Piles: 11
No. Test Piles: 0



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PLOT DATE =

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CHECKED - RPW
DRAWN - ASC
CHECKED - MDC

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SOUTH ABUTMENT
STRUCTURE NO. 039-0083

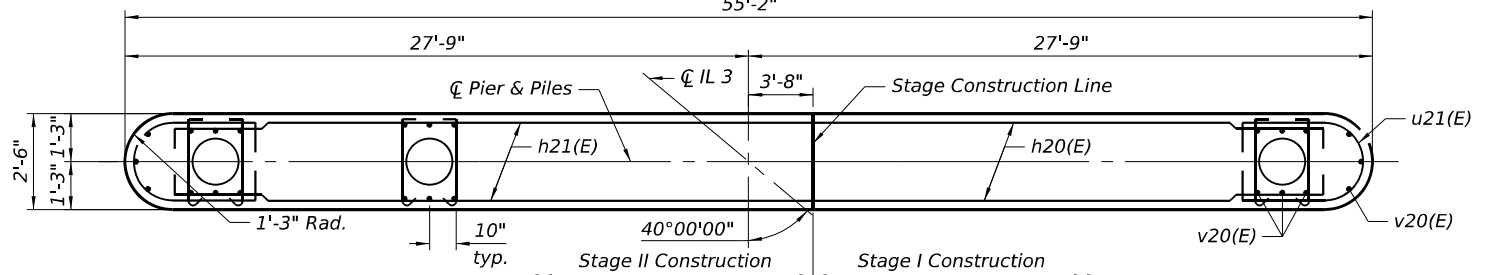
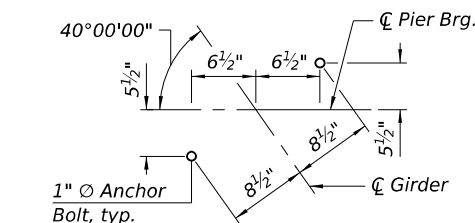
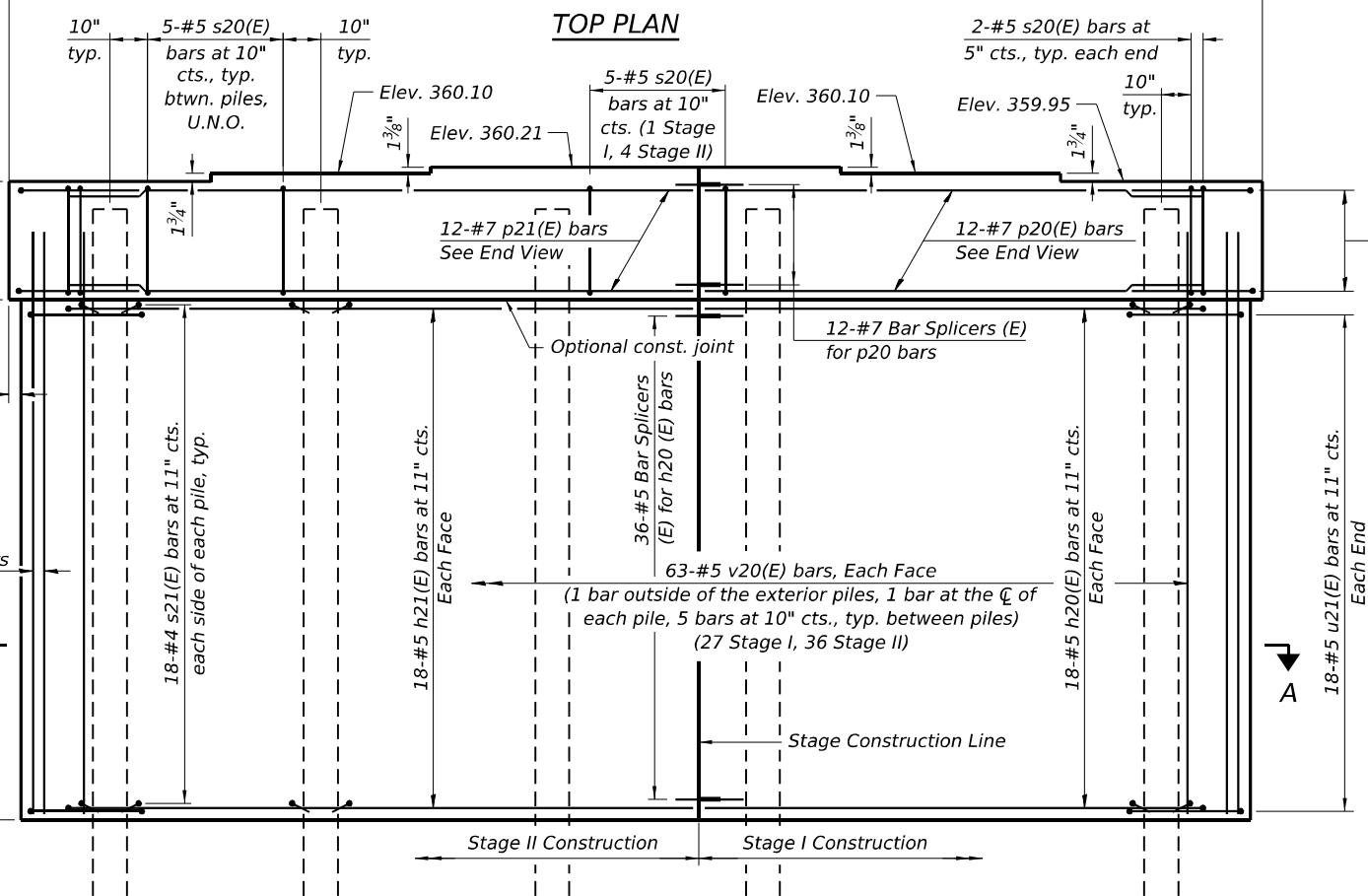
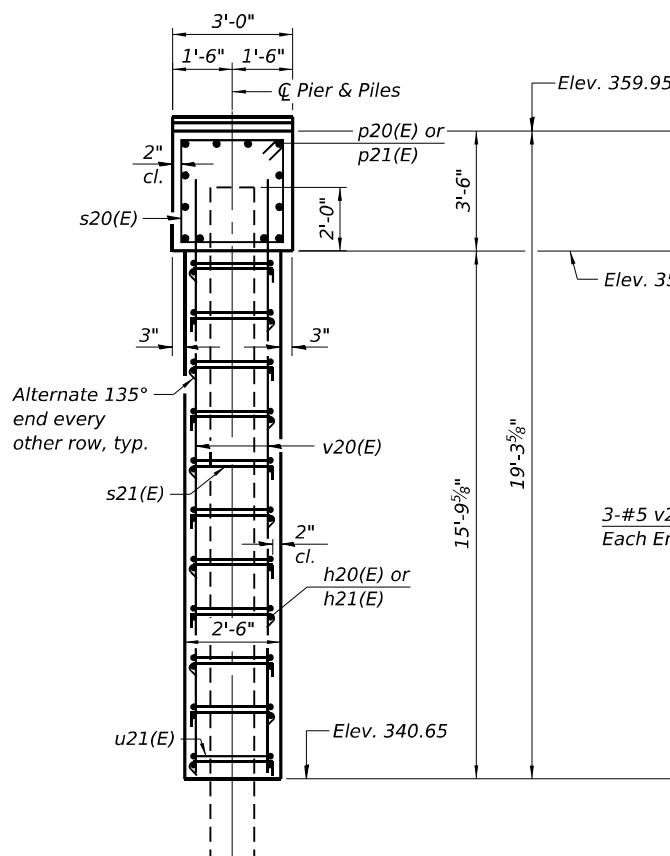
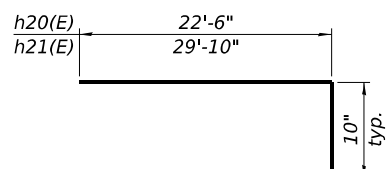
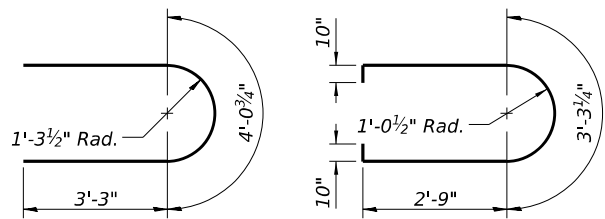
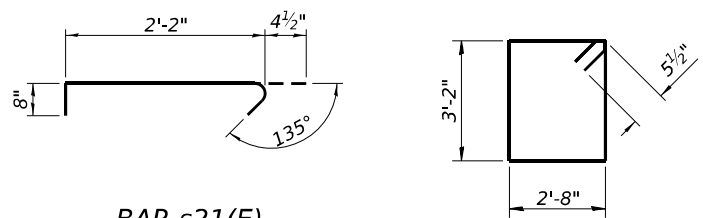
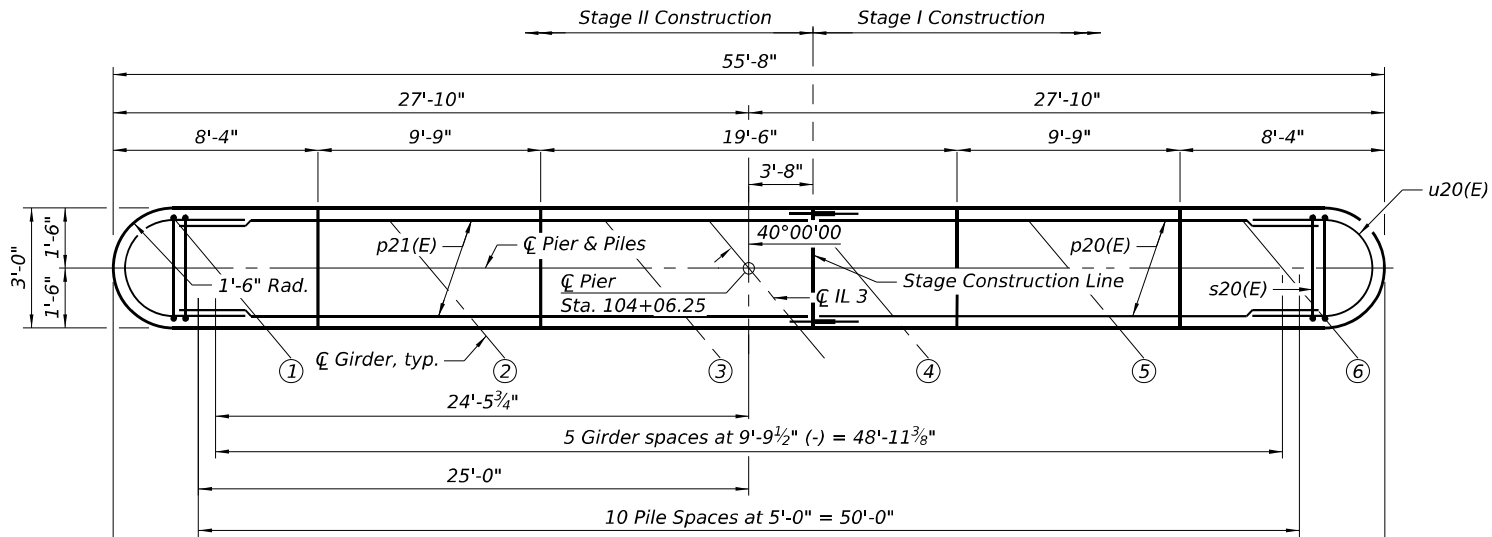
SHEET 21 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	50
CONTRACT NO. 78967				
ILLINOIS FED. AID PROJECT				

Notes:
Space reinforcement in cap to miss anchor bolts.
Pour steps monolithically with cap.
For details of piles, see sheet 23 of 31.
For bar splicer details, see sheet 24 of 31.

PILE DATA

Type: MS 16" x 0.375"
Nominal Required Bearing: 782 kips
Factored Resistance Available: 430 kips
Est. Length: 77 ft.
No. Production Piles: 10
No. Test Piles: 1



BILL OF MATERIAL				
Bar	No.	Size	Length	Shape
h20(E)	36	#5	23'-4"	┌┐
h21(E)	36	#5	30'-8"	┌┐
p20(E)	12	#7	22'-6"	—
p21(E)	12	#7	29'-10"	—
s20(E)	54	#5	12'-7"	□
s21(E)	396	#4	3'-3"	┌┐
u20(E)	12	#6	10'-7"	—
u21(E)	36	#5	10'-6"	—
v20(E)	126	#5	18'-0"	—
Concrete Structures			Cu. Yd.	91.4
Reinforcement Bars, Epoxy Coated			Pound	7,840
Furnishing Metal Shell Piles 16" x 0.375"			Foot	770
Driving Piles			Foot	770
Test Pile Metal Shells			Each	1
Cofferdam Excavation			Cu. Yd.	136
Seal Coat Concrete			Cu. Yd.	73.7

MODEL: Default
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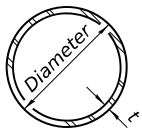
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PIER
STRUCTURE NO. 039-0083

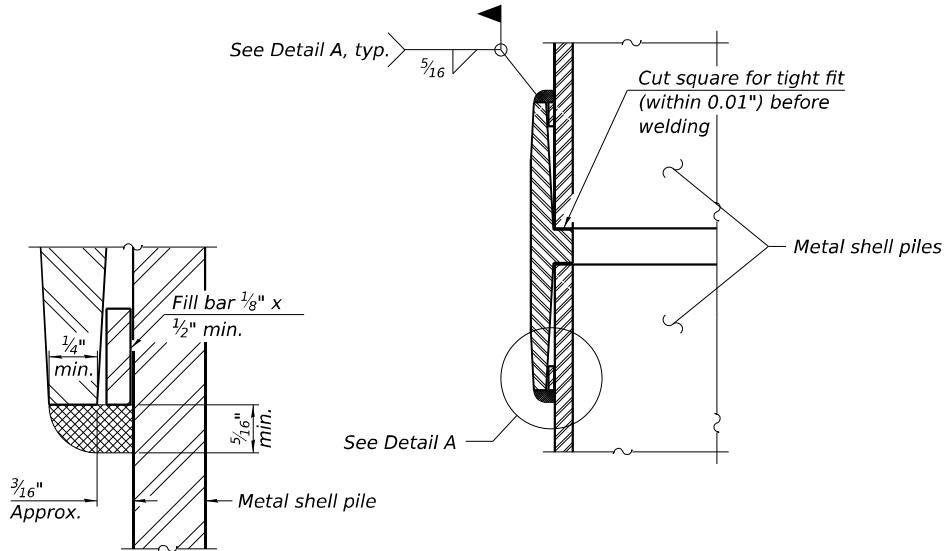
SHEET 22 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	51
CONTRACT NO. 78967				
ILLINOIS FED. AID PROJECT				

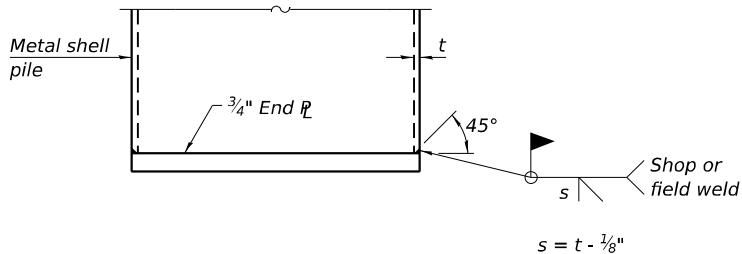


METAL SHELL PILE TABLE

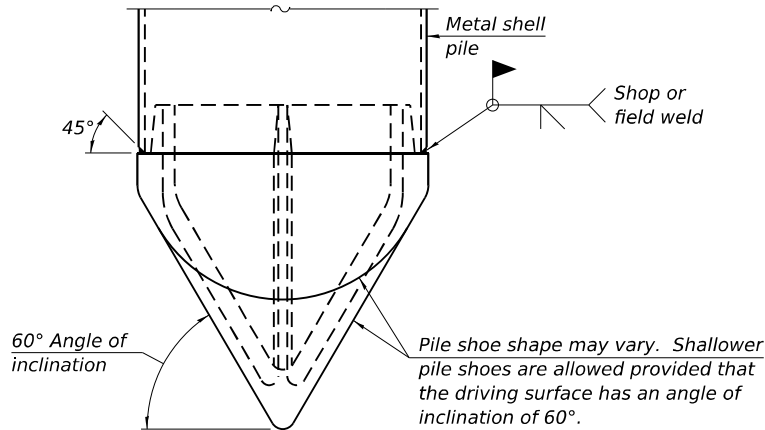
Designation and outside diameter	Wall thickness t	Weight per foot (Lbs./ft.)	Inside volume (yd. ³ /ft.)
PP12	0.250"	31.40	0.0267
PP14	0.250"	36.75	0.0368
PP14	0.312"	45.65	0.0361
PP16	0.312"	52.32	0.0478
PP16	0.375"	62.64	0.0470



DETAIL A



END PLATE ATTACHMENT

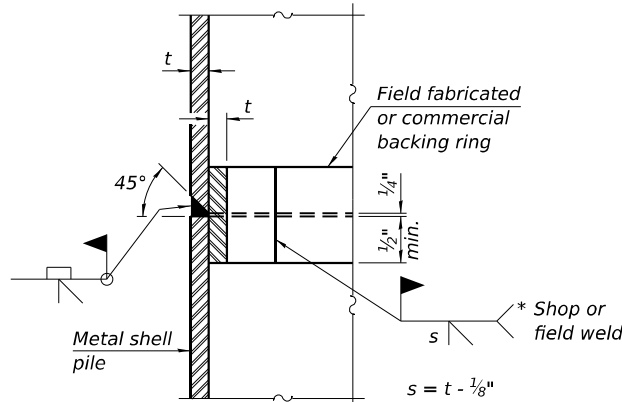


PILE SHOE ATTACHMENT

(When called for on the plans, the Contractor shall furnish metal shell pile shoes consisting of a single piece conical pile point as shown. The pile shoes shall be cast in one piece steel according to either ASTM A 148 Grade 80-50 or AASHTO M 103 Grade 65-35 and shall provide full bearing over the full circumference of the metal shell pile. The pile shoe shall have tapered leads to assure proper alignment and fitting and shall be secured to the pile with a circumferential weld).

WELDED COMMERCIAL SPLICE

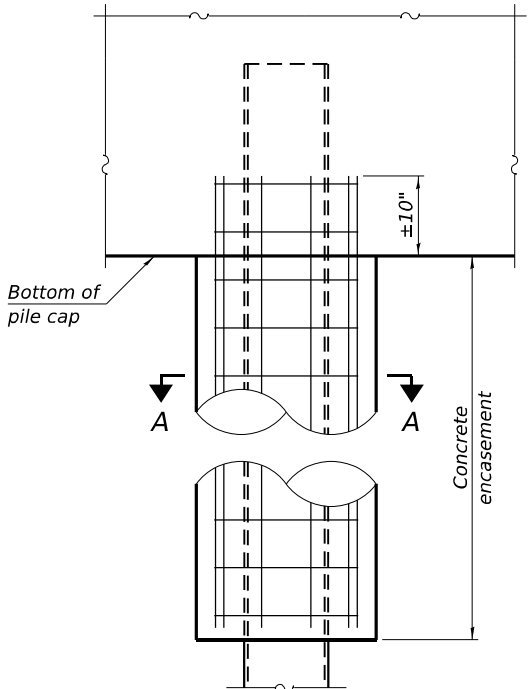
Notes:
The 1/8" x 1/2" min. fill bar may be constructed of 2 bars with a 1/8" max. gap between them.
Pile segments shall be driven to solid contact with splicer before welding.



COMPLETE PENETRATION WELD SPLICE

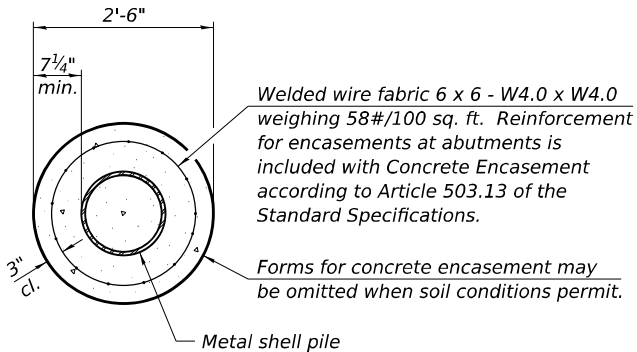
* Field fabricated backing ring may be made from pile shell by removing segment to allow reducing circumference and vertically rejoin with partial joint penetration weld.

Note:
The metal shell piles shall be according to Article 1006.05 of the Standard Specifications.

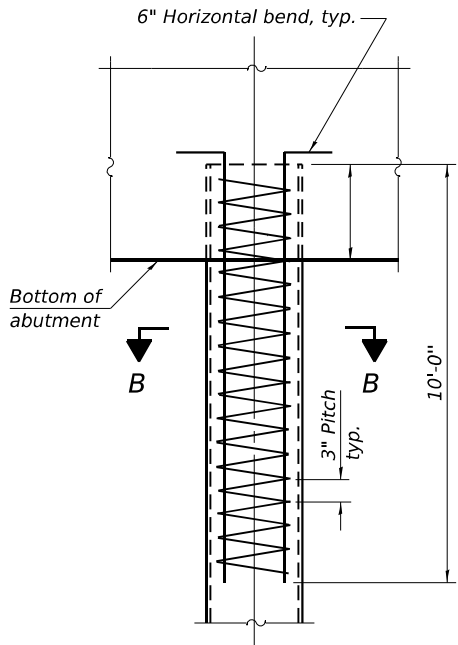


ELEVATION

INDIVIDUAL PILE CONCRETE ENCASEMENT
(When specified)

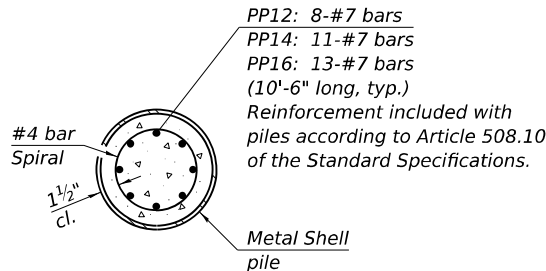


SECTION A-A



ELEVATION

REINFORCEMENT AT ABUTMENTS
(Omit when concrete encasement is specified)



SECTION B-B

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12/2/2025 3:47:58 PM

F-MS

4-4-2025



QUIGG ENGINEERING INC
DESIGN FIRM REG. NO. 184.004721-0014

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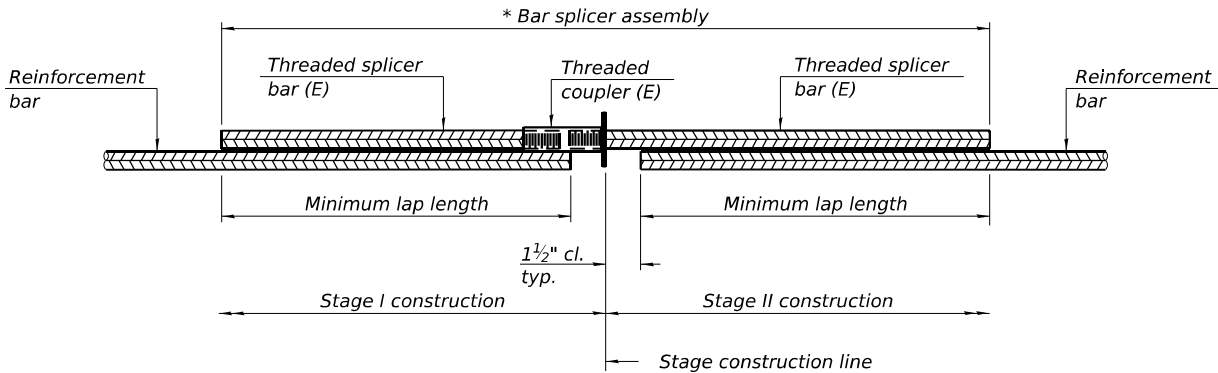
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

METAL SHELL PILE DETAILS
STRUCTURE NO. 039-0083

SHEET 23 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	52
CONTRACT NO. 78967				
ILLINOIS FED. AID PROJECT				

MODEL: Default
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12/2/2025 3:47:59 PM



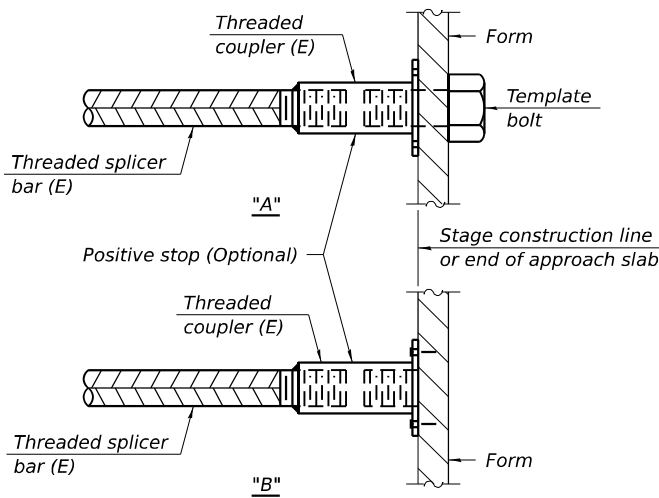
STANDARD BAR SPLICER ASSEMBLY PLAN

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

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

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

Location	Bar size	No. assemblies required	Minimum lap length
Deck	#5	530	3'-10"
Diaphragm, m14(E)	#6	10	3'-0"
Appr. Slab	#5	70	2'-6"
Appr. Slab	#8	92	4'-4"
Appr. Footing	#5	80	2'-1"
Abut.	#7	24	4'-1"
Pier	#7	12	4'-1"
Pier	#5	36	2'-9"

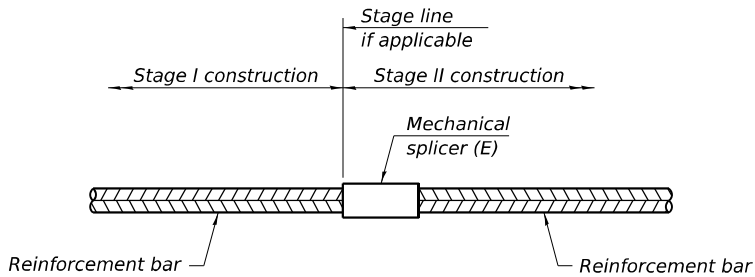


INSTALLATION AND SETTING METHODS

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

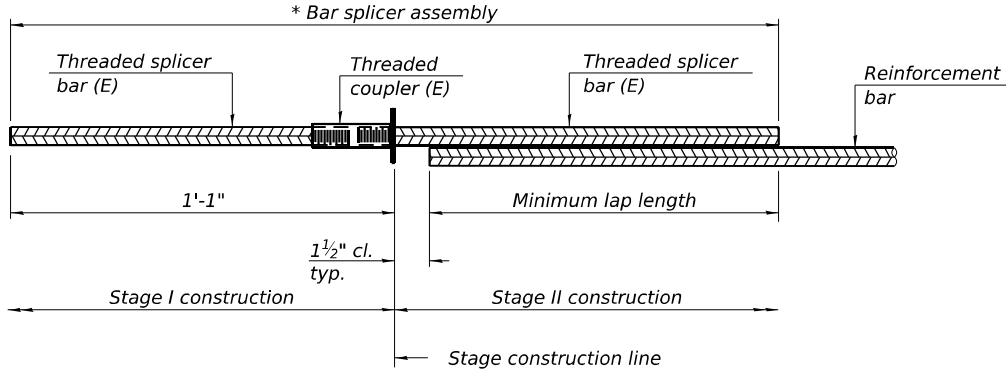
"B" : Set bar splicer assembly by nailing to wood forms or cementing to steel forms.

(E) : Indicates epoxy coating.



STANDARD MECHANICAL SPLICER

Location	Bar size	No. assemblies required



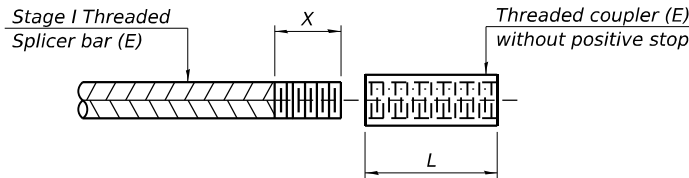
STANDARD BAR SPLICER ASSEMBLY PLAN

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

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

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

Location	Bar size	No. assemblies required	Minimum lap length
Diaphragm, m13(E)	#6	8	3'-0"



THREADING OF ASSEMBLIES

The threaded length "X" shall be no more than L/2. The bar should be tightened until 0-1 thread(s) is/are exposed.

Notes:

Splicer bars shall be deformed with threaded ends and have a minimum 60 ksi yield strength.

All reinforcement shall be lapped and tied to the splicer bars.

Bar splicer assemblies shall be epoxy coated according to the requirements for reinforcement bars. See Section 508 of the Standard Specifications.

See approved list of bar splicer assemblies and mechanical splicers for alternatives.



QUIGG ENGINEERING INC.
DESIGN FIRM REG. NO. 184.004721-0014

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0390083-78967-024-Bar Splicer Details.dgn
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CHECKED - RPW
DRAWN - ASC
CHECKED - MDC

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BAR SPLICER DETAILS
STRUCTURE NO. 039-0083

SHEET 24 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	53
CONTRACT NO. 78967				
		ILLINOIS	FED. AID PROJECT	

Page 1 of 2

Date 9/27/22

COUNTY	Jackson	DRILLING METHOD	HSA (8" OD, 3.25" ID)/Mud Rotary	HAMMER TYPE	Auto SPT 140 lbs HE 86.5%
---------------	---------	------------------------	----------------------------------	--------------------	---------------------------

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)



Page 2 of 2

Date 9/27/22

COUNTY Jackson **DRILLING METHOD** HSA (8" OD, 3.25" ID)/Mud Rotary **HAMMER TYPE** Auto SPT 140 lbs HE 86.5%

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

Page 1 of 2

Date 9/28/22

COUNTY Jackson **DRILLING METHOD** HSA (8" OD, 3.25" ID)/Mud Rotary **HAMMER TYPE** Auto SPT 140 lbs HE 86.5%

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

Page 2 of 2

Date 9/28/22

COUNTY Jackson **DRILLING METHOD** HSA (8" OD, 3.25" ID)/Mud Rotary **HAMMER TYPE** Auto SPT 140 lbs HE 86.5%

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer, E-Estimated) Abbreviations W.O.H - Sampler Advanced By Weight of Hammer, W.O.P - Advanced by Weight of Pipe, B.S. - Before Seating The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206) BBS, from 137 (Rev. 8-99)

Page 1 of 3

Date 10/4/24

COUNTY	Jackson	DRILLING METHOD	MUD ROTARY	HAMMER TYPE	Auto SPT 140 lb
---------------	---------	------------------------	------------	--------------------	-----------------

STRUT. NO.	039-0026 (EX)	D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev.	ft	D E P T H	B L O W S	U C S	M O I S T	
Station	039-0083 (PR)					Stream Bed Elev.	ft					
	104+12.00											
BORING NO.	3-S					Groundwater Elev.:						
Station	103+95.00	Qu	(ft)	(/6")	(tsf)	(%)	First Encounter	ft	H	S	Qu	T
Offset	5.5 ft LT						Upon Completion	ft				
Ground Surface Elev.	365.10						After Hrs.	ft				

[illegible]

BBS, form 137 (Rev. 8-99)

Page 2 of 3

Date 10/4/24

COUNTY	Jackson	DRILLING METHOD	MUD ROTARY	HAMMER TYPE	Auto SPT 140 lb
--------	---------	-----------------	------------	-------------	-----------------

039-0026 (EX)		D E P T H	B L O W S	U C S	M O I S T	Surface Water Elev. _____ ft		D E P T H	B L O W S	U C S	M O I S T
039-0083 (PR)						Stream Bed Elev. _____ ft					
Station 104+12.00											
BORING NO. 3-S						Groundwater Elev.: _____ ft					
Station 103+95.00						First Encounter _____ ft					
Offset 5.5 ft LT						Upon Completion _____ ft					
Ground Surface Elev. 365.10		ft	(ft)	(/6")	(tsf)	(%)	ft	(ft)	(/6")	(tsf)	(%)
							After _____ Hrs.				

SAND - Gray, fine to coarse, loose to medium dense (continued) becomes coarse	8	-	14	SAND - Gray, fine to coarse, loose to medium dense (continued)	6	-	23
	12				9		
	14				11		
with pebbles	7				7		
	7	-	16		9	-	23
	11				11		
	9						
	12	-	15				
	14						
	9				7		
	15	-	18		9	-	25
	17				13		
	11						
	12	-	23				
	12						
	5				10		
	7	-	19		16	-	25
	8				14		
	7						
	11	-	22				
	12						
4% gravel, 95.9% sand, 0.1% fines	8				10		
	9	-	17		10	-	25
	12				20		

BBS, form 137 (Rev. 8-99)



**Illinois Department
of Transportation**
Division of Highways
Terracon

SOIL BORING LOG

Page 3 of 3

Date 10/4/24

ROUTE IL 3 DESCRIPTION Bridge over Worthen Bayou LOGGED BY KEG

SECTION 130B-1 LOCATION 1.2 mi S. of IL 149/3 Int. (Near Pier), SEC. 17, TWP. 9S, RNG. 3W,

Latitude , Longitude

COUNTY Jackson DRILLING METHOD MUD ROTARY HAMMER TYPE Auto SPT 140 lb

STRUCT. NO. 039-0026 (EX)
039-0083 (PR)
Station 104+12.00

BORING NO. 3-S
Station 103+95.00
Offset 5.5 ft LT
Ground Surface Elev. 365.10 ft

D
E
P
T
H
(ft)

B
L
O
W
S
(/6")

U
C
S
Qu
(tsf)

M
O
I
S
T
(%)

Surface Water Elev. _____ ft
Stream Bed Elev. _____ ft

Groundwater Elev.:
First Encounter _____ ft
Upon Completion _____ ft
After _____ Hrs. _____ ft

SAND - Gray, fine to coarse,
loose to medium dense
(continued)

10
10
-85
14

becomes dense

12
25
10
-90

End of Boring

Elevation referenced to BM
039-0026, EL. 365.72
Hammer Efficiency: 89.3%
End of Boring

-95

-100

The Unconfined Compressive Strength (UCS) Failure Mode is indicated by (B-Bulge, S-Shear, P-Penetrometer)
The SPT (N value) is the sum of the last two blow values in each sampling zone (AASHTO T206)

BBS, form 137 (Rev. 8-99)

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BORING LOGS
STRUCTURE NO. 039-0083**

SHEET 28 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	57
CONTRACT NO. 78967				
ILLINOIS		FED. AID PROJECT		



QUIGG ENGINEERING INC
DESIGN FIRM REG. NO. 184.004721-0014

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Form No. B. O. 137

FOUNDATION BORINGS

Project

Bridge over Worthon Bayou

Route

SBI 150

Station

104+12

Section

130 BY

Borings made by

Francis Piefer

County

Jackson

Sheet 3 of 5 Sheets

Date

Jan 58

Will bearing piles be required.

Can trestle piles be driven.

Boring No. 2

Boring located at Station 103+40, 15 Ft Lt Center-line.

Surface of Ground.

Stiff gravelly clay fill.

Qu-1.48

Stiff dark gray clay.

Qu-1.56

Qu-1.72

Qu-1.80

Stiff blue-gray clay fill.

Qu-1.88

Qu-1.80

Qu-2.45

Very stiff blue clay fill.

Qu-2.04

Blows per ft

Elevation

Elevation

Blows per ft

Will bearing piles be required.

Can trestle piles be driven.

Blows per ft	Elevation	Elevation	Blows per ft
	363.4	341.0	
	362.5	340.0	3
		339.5	
1	361.0	338.5	2
	360.0	337.5	
		337.0	
1	358.5	336.0	1A
	357.5	335.0	
		334.5	
2	356.0	333.5	4A
	355.0	332.5	
	354.5		
3	353.5	330.5	
	352.5		
3	351.0	328.5	12
	350.0	327.5	
	348.5		
3	347.5		
	346.5		
	346.0	323.5	
3	345.0	322.5	11
	343.5		
2	342.5		

Form No. B. O. 137		FOUNDATION BORINGS		Sheet 4 of 5 sheets	
Project _____	Bridge over Natchez Bayou _____			Date Jan 58 _____	
Route SBI 150 _____	Station 104+12 _____				
Section 130 BY _____	Borings made by Francis Pfister _____				
County Jackson _____					
Will bearing piles be required. _____ Can trestle piles be driven. _____ Boring No. 2 _____	Blows per cu foot	Elevation	Elevation	Blows per cu foot	Will bearing piles be required. _____ Can trestle piles be driven. _____
Dense gray sand and gravel		319.5			
	38	318.5			
		317.5			
		316.5			
	80	313.5			
Very dense gray sand and gravel.		312.5			
	85	308.5			
		307.5			

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QUIGG ENGINEERING INC
DESIGN FIRM REG. NO. 184.004721-0014

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DRAWN - ASC
CHECKED - MDC

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REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BORING LOGS
STRUCTURE NO. 039-0083

SHEET 31 OF 31 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	60
CONTRACT NO. 78967				
ILLINOIS FED. AID PROJECT				

Form No. B. O. 137

FOUNDATION BORINGS

Project Bridge over Maitland Bayou Sheet 5
of 5 Sheets

Route 351.150 Station 104+15 Date 08.07.00 RP

Section 130 BY Borings made by Francis P. Pinner

County Jackson

Will bearing piles be required? Yes
Can trestle piles be driven? Yes

Boring No. 3

Boring located at Station 103+85, 5 Ft Lt Center-line.

Surface of ground

Medium gray sandy clay.

Dense gray fine sand.

Blows per ft	Elevation	Elevation	Blows per ft
		326.0	
	346.1	324.0	55
		323.0	
		319.0	
		318.0	58
3	340.0		
	339.0		
	338.0		
		314.0	
		313.0	62
32	334.0		
	333.0		
34	329.0		
	328.0		

Very dense gray fine sand, and occasional small gravel.

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QUIGG ENGINEERING INC
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DRAWN - ASC
CHECKED - MDC
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REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
STRUCTURE NO. 039-0026

SHEET 1 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	61
CONTRACT NO. 78967				
ILLINOIS FED. AID PROJECT				

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
JACKSON	14		
STA.	TO STA.	ALIGNED	FILE AND PROJECT
* CONT. MAINT. FY2002-1			

GENERAL NOTES

Plan dimensions and details relative to existing structure have been taken from existing plans and are subject to nominal construction variations. It shall be the Contractor's responsibility to verify such dimensions and details in the field and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in the scope of the work, however, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.

Reinforcement bars shall conform to the requirements of AASHTO M-31, M-42 or M-53 Grade 60.

Factors used for estimating plan quantities are as follows and shall not be used for the basis of final quantities.

All Bituminous Concrete 2.016 Tons/Cu. Yd.

Bituminous Material (Prime Coat) .09 Gal/Sq. Yd.

Butt Joints shall not be cut until staged bridge work is done.

Existing reinforcement bars extending into the removal area shall be cleaned, straightened and incorporated into new construction. Any reinforcement bars that are damaged during Concrete Removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

The Existing slopewall shall be removed as directed by the Engineer in order to install the new dog ear wingwalls. The cost to be included with Concrete Superstructure.

Protective coat shall be applied to the Concrete Wearing Surface in accordance with Article 503.19 of the Standard Specifications. The seasonal exception shall not apply. The rate of application for each coat on saw cut grooved areas shall be 25 Sq. Yds. per gallon of mixture.

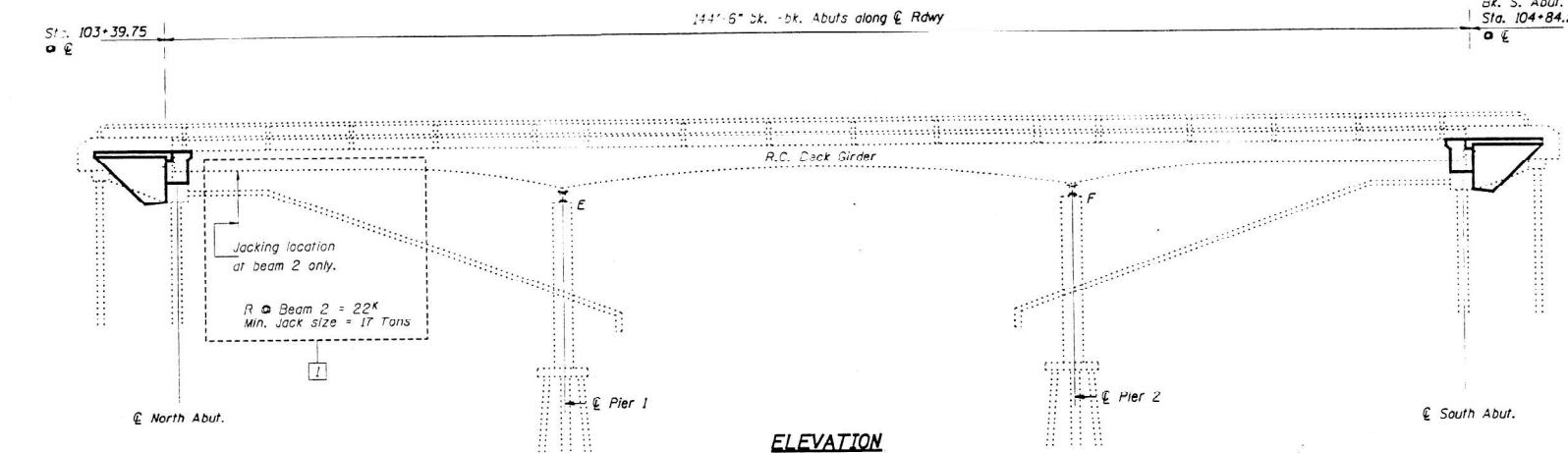
Mechanical Splicers and all reinforcement within the Bridge Approach Pavement, Specials, shall be included in the cost of Bridge Approach Pavement, Special.

TOTAL BILL OF MATERIAL

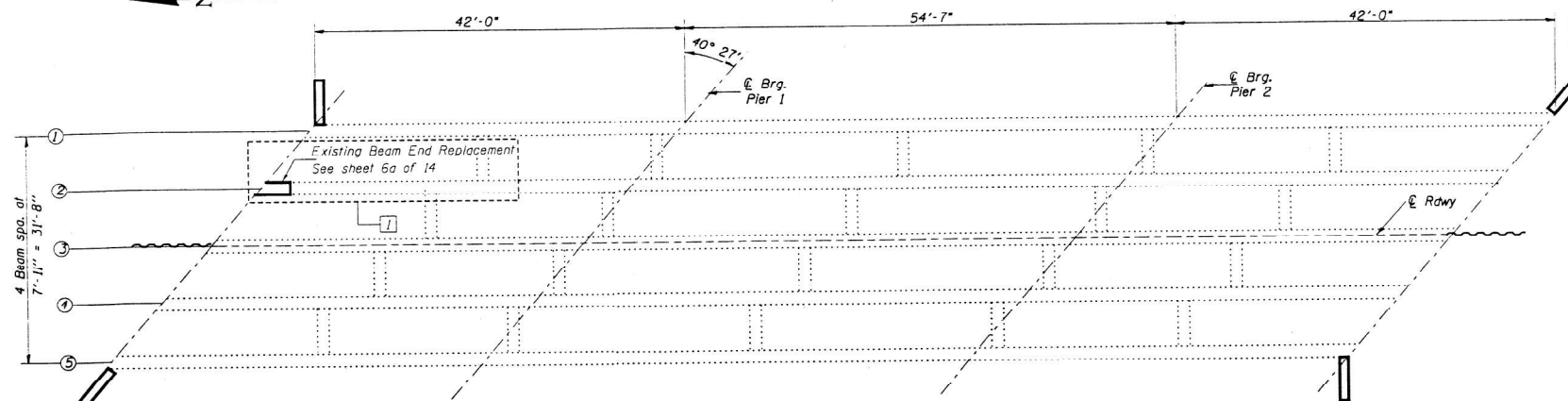
ITEM	UNIT	QUANTITY
Concrete Removal	Cu. Yd.	38.7
Concrete Superstructure	Cu. Yd.	43.3
Bridge Deck Grooving	Sq. Yd.	441
Reinforcement Bars, Epoxy Coated	Pound	12900
Steel Bridge Rail	Foot	290
Deck Slab Repair (Partial Depth)	Sq. Yd.	33
Bar Splicers	Each	245
Temporary Sheet Piling	Sq. Ft.	242
Concrete Wearing Surface	Sq. Yd.	473
Structure Excavation	Cu. Yd.	159.6
Porous Granular Embankment	Cu. Yd.	159.6
Conc. Bridge Deck Scarification (1/2")	Sq. Yd.	449
Blt. Concrete Removal (Deck)	Sq. Yd.	473
Protective Coat	Sq. Yd.	473
Jacking and Cribbing	L.S.	1

General Plan & Elevation
IL Rte. 3 over Worthen Bayou
Jackson County
Structure No. 039-0026
Sta. 104+12.00

Revised 4-2-02 V.H.V.



ELEVATION



FRAMING PLAN

Sequence of Construction

1. Remove Stage I Blt. Wearing Surface
2. Perform Stage I Repairs and Overlay
3. Remove Stage II Blt. Wearing Surface
4. Perform Stage II Repairs and Overlay

Design Stresses

(Exist. Construction)

$f_c = 1400$ psi (Super)
 $f_c = 1000$ psi (Sub)
 $f_s = 20,000$ psi (Reinf.)
 $n = 10$

(New Construction)

$f_c' = 3,500$ psi (Concrete)
 $f_y = 60,000$ psi (Reinforcement)

DESIGNED T. Wayne Halstead
CHECKED Mike Stephenson
DRAWN T. Wayne Halstead
CHECKED TWH MAS CMW

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QUIGG ENGINEERING INC
DESIGN FIRM REG. NO. 184,004721-0014

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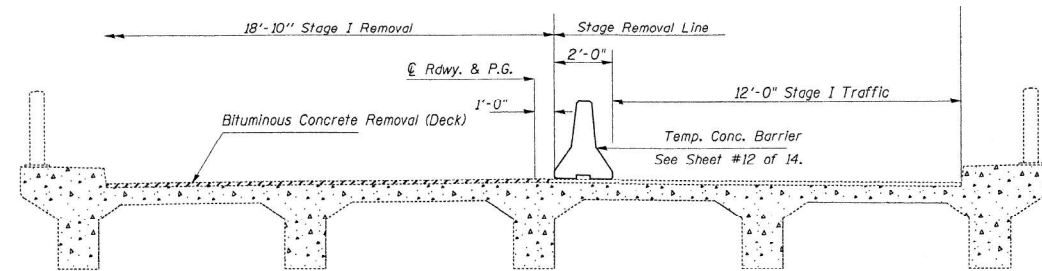
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

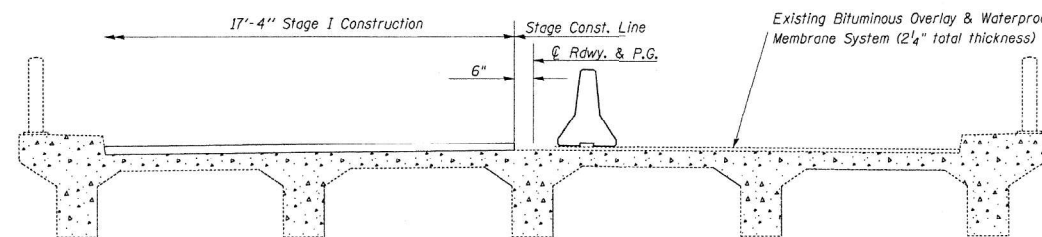
EXISTING BRIDGE PLANS
STRUCTURE NO. 039-0026

SHEET 2 OF 9 SHEETS

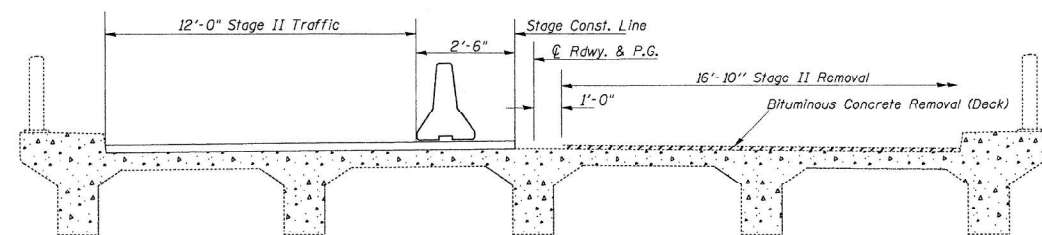
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CONTRACT NO. 78967				
ILLINOIS FED. AID PROJECT				



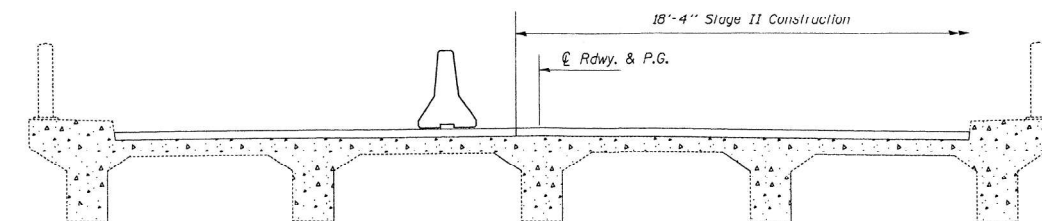
STAGE I REMOVAL



STAGE I CONSTRUCTION



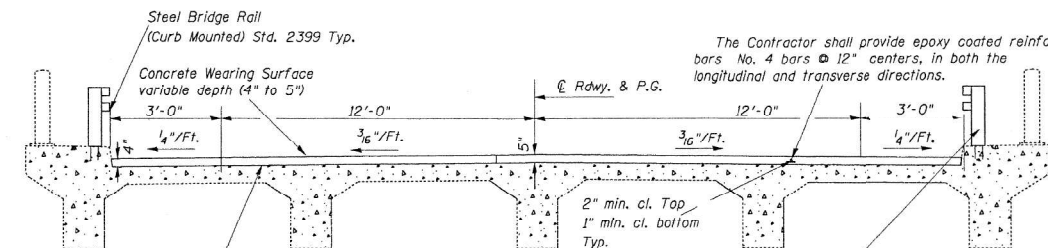
STAGE II REMOVAL



STAGE II CONSTRUCTION

DESIGNED T. Wayne Halstead
CHECKED Mike Stephenson
DRAWN T. Wayne Halstead
CHECKED TWH MAS CMW

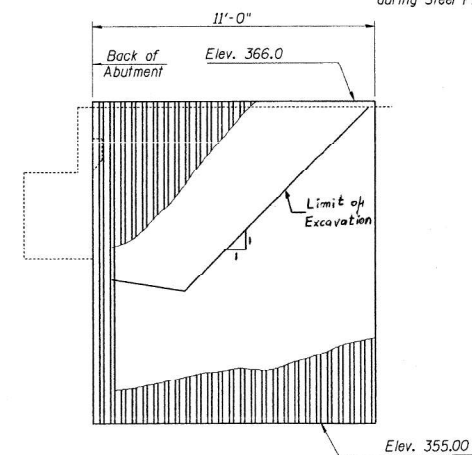
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION



CROSS SECTION

Note: Existing deck surface has a 2" Parabolic crown.

The Contractor shall replace at his or her own expense, any damage caused to the existing guard rail during Steel Plate Beam Guard Rail Removal, Type A.



TEMPORARY SHEET PILING

The Contractor shall anchor the sheet piling to the top of the abutment walls. The connection shall be approved by the Engineer.

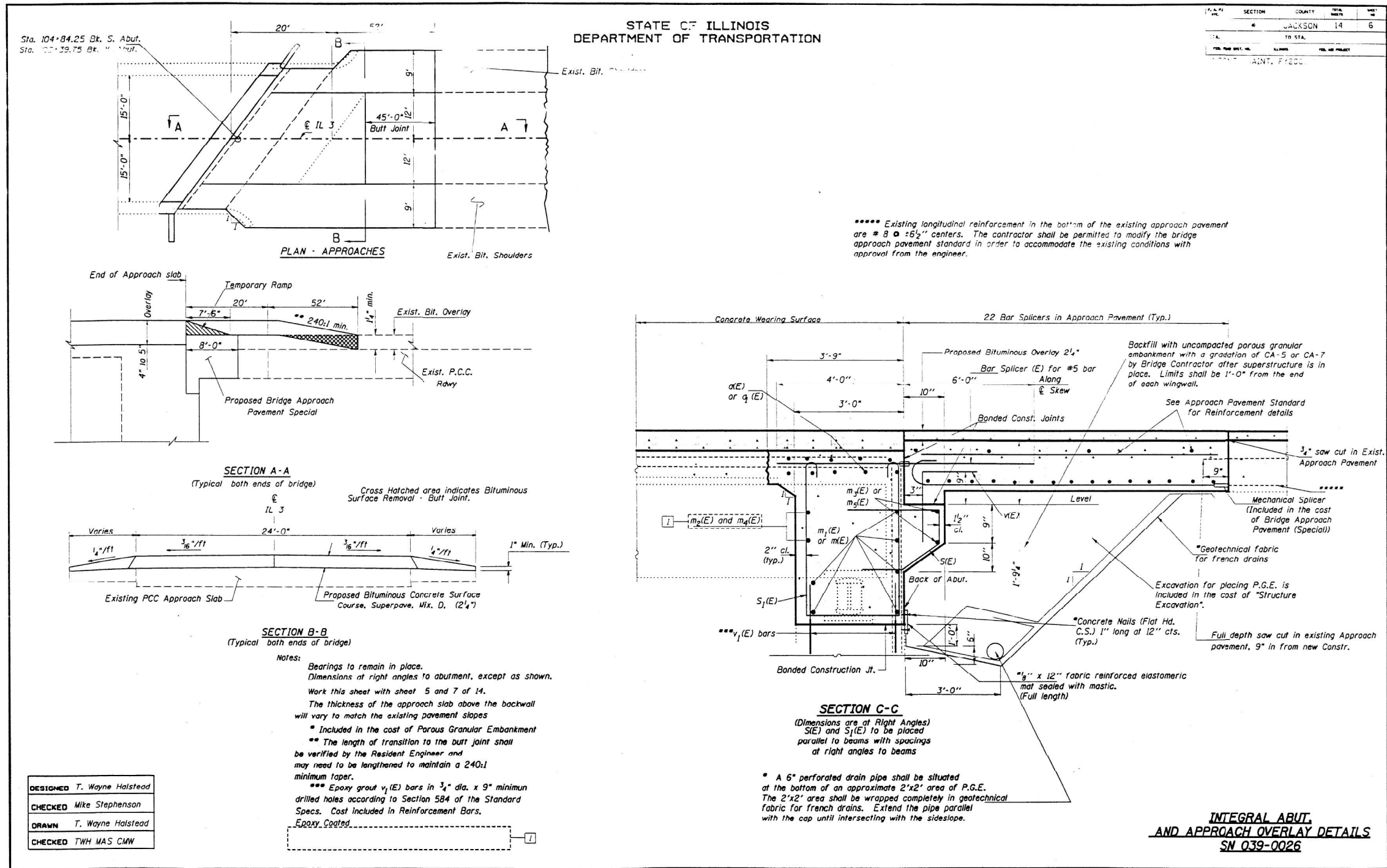
If the Contractor chooses to alter the temporary cantilevered sheet piling design requirements, then full design submittals with the required seals will be expected by the Department, for review and approval.

All Cross Sections are looking South.

STAGE CONSTRUCTION DETAILS
SN 039-0026

FOR INFORMATION ONLY

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FOR INFORMATION ONLY



QUIGG ENGINEERING INC
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PLOT DATE =		CHECKED -	MDC	REVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
STRUCTURE NO. 039-0026

SHEET 3 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	1308-1	JACKSON	83	63
CONTRACT NO. 78967				
ILLINOIS FED. AID PROJECT				

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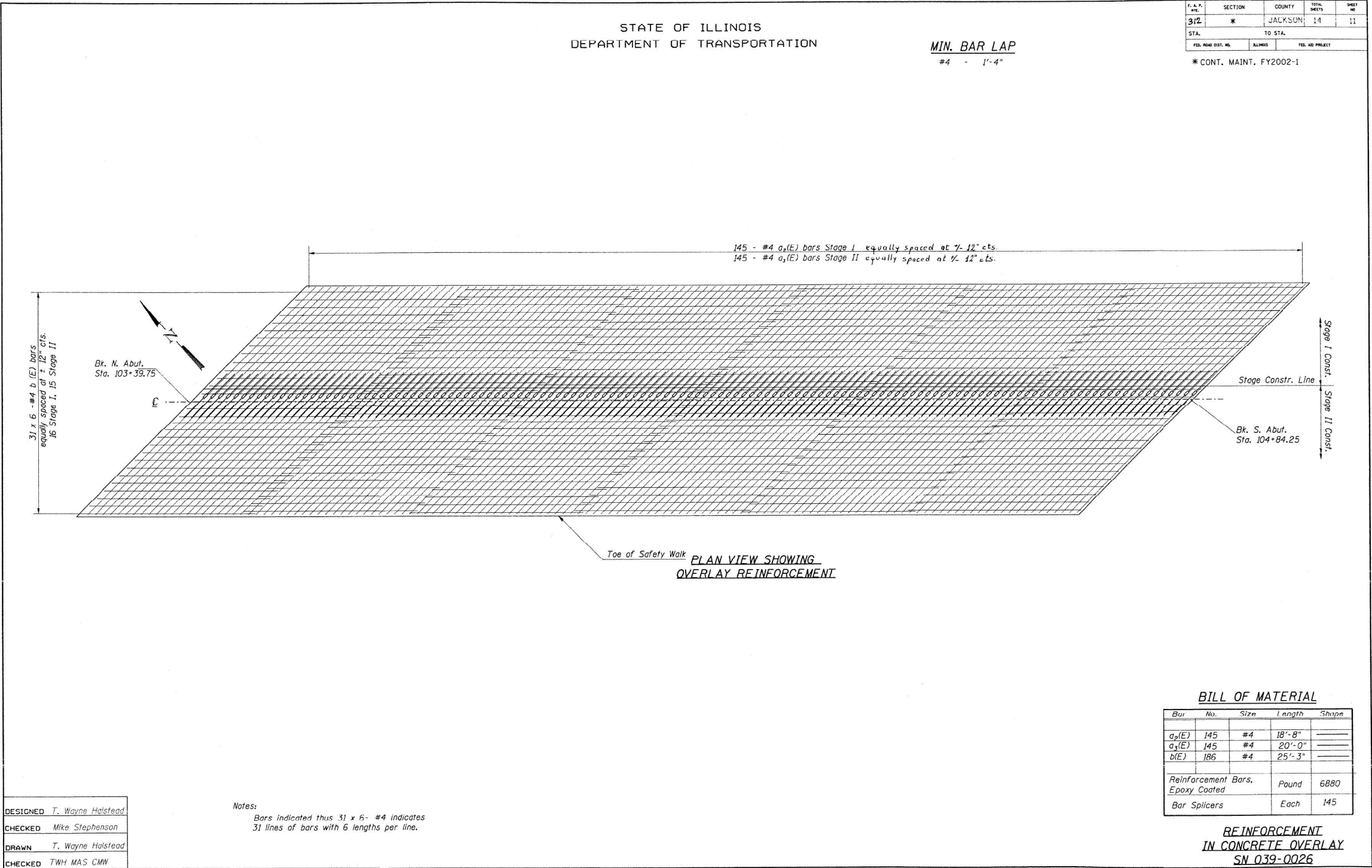
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
STRUCTURE NO. 039-0026

SHEET 4 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	64
CONTRACT NO. 78967				
ILLINOIS FED. AID PROJECT				



FOR INFORMATION ONLY

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

ROUTE NO.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
W 1/4 FA	200	JACKSON	29	8

SHEET NO. 9 SHEETS

GENERAL NOTES

GENERAL NOTES

Class A Concrete shall be used in Piers
Class B Concrete shall be used throughout except as noted.
Concrete Floor Slab and Girders shall be poured in one
continuous operation between joints.
The Concrete Floor Slab shall be finished in accordance with
the applicable provisions of Section 518.4 of the Standard Specifications.
Roadway Expansion Device shall be fabricated to fit the
crown of roadway.

All rockers, bolsters, bearing plates, lead plates, pintles and anchor bolts shall be fabricated and set in accordance with Article 516 of the Standard Specifications and are included for payment as Structural Steel.

All Structural Steel except the Anchor Bolts and Straps shall receive one shop coat of red lead paint and two field coats of Aluminum paint in accordance with Article 571 to 575 inclusive of the Standard Specifications.

All paint shall be furnished and applied by the Contractor. Structural Steel shall be inspected by the Illinois Division of Highways before painting.

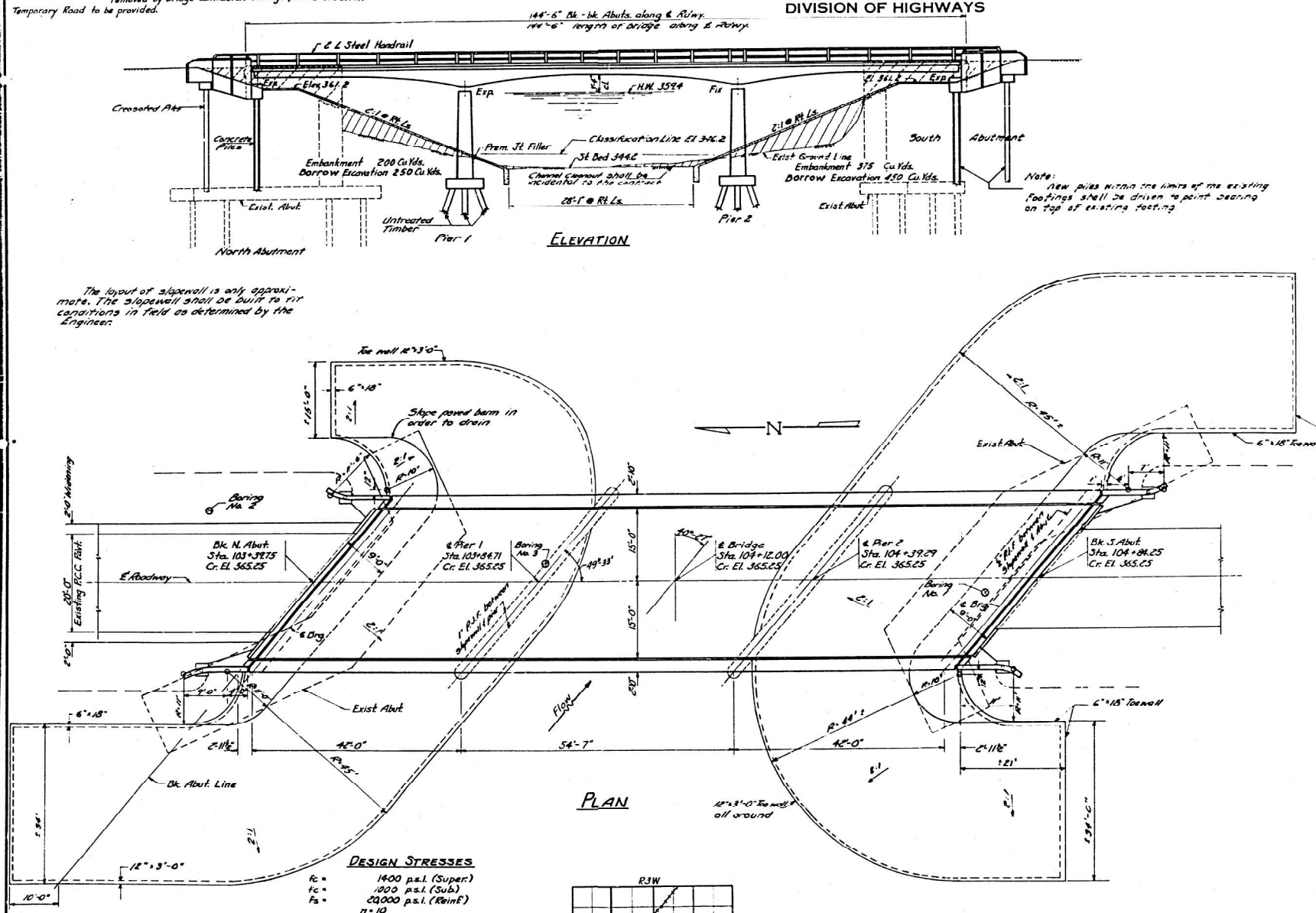
Expansion Device shall be included in quantity of Structural Steel.

Railings shall be adjusted to true alignment after curbs (safety walks), have been poured.

The Contractor shall drive one concrete test pile in a permanent location at the North Abutment and one timber test pile in a permanent location in Pier two before ordering the remainder of the piles.

Boring Data are shown on the drawings only as a guide to bidders in estimating soil conditions which may be encountered in the work.

Slope wall shd. be reinforced with welded wire fabric
#4 wires 6"x6" mesh weighing not less than 56# per 100 sq. ft.



ITEM	UNIT	SUPER	SUB	TOTAL
Class X Concrete	Cu Yds.	242.2	61.4	303.6
Class A Concrete	Cu Yds		264.4	264.4
Reinforcement Bars	Lbs.	71,090	14,270	85,360
Structural Steel	Lbs.	10,360		10,360
Name Plates	Each	1		1
Nuts / Washers	2 1/2" Ft	316		316
Barrow Excavation	Cu Yds.			100
Class B Excavation for Street	Cu Yds.		310	310
Concrete Pile	1 1/2" Ft		400	400
Grouted Piles	1 1/2" Ft		100	100
Untreated Piles	1 1/2" Ft		1420	1420
Test Piles (Concrete)	Each		1	1
Test Piles (Timber)	Each		1	1
Remove Existing Structure	Each			1
Align Wall	50 Yds			1810

GENERAL PLAN & ELEVATION

SBI RT 150 SEC. 130 BY

F.A. PROJ. F-194(14)

BRIDGE OVER WORTHEN BAYOU

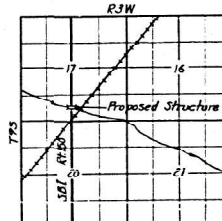
JACKSON COUNTY

JACKSON COUN
STA. 104+12.0

STA. 101-16.0

LOADING H20-316-44

DESIGNED <i>Ronald C. Pitz</i>	APRIL 18 1958
CHECKED <i>Joseph J. Remy</i>	EXAMINED <i>J. Remy</i>
DRAWN <i>ECR</i>	PASSED <i>ECR</i>
CHECKED <i>J. Remy</i>	APPROVED <i>ECR</i>



WATERWAY INFORMATION

Drainage Area	32.63 Acres
Character	Level, Sand, Wooded & Cultivated.
Required Opening	813 a"
Present Opening	813 a"
Proposed Opening	813 a"

FOR INFORMATION ONLY



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QUIGG ENGINEERING INC
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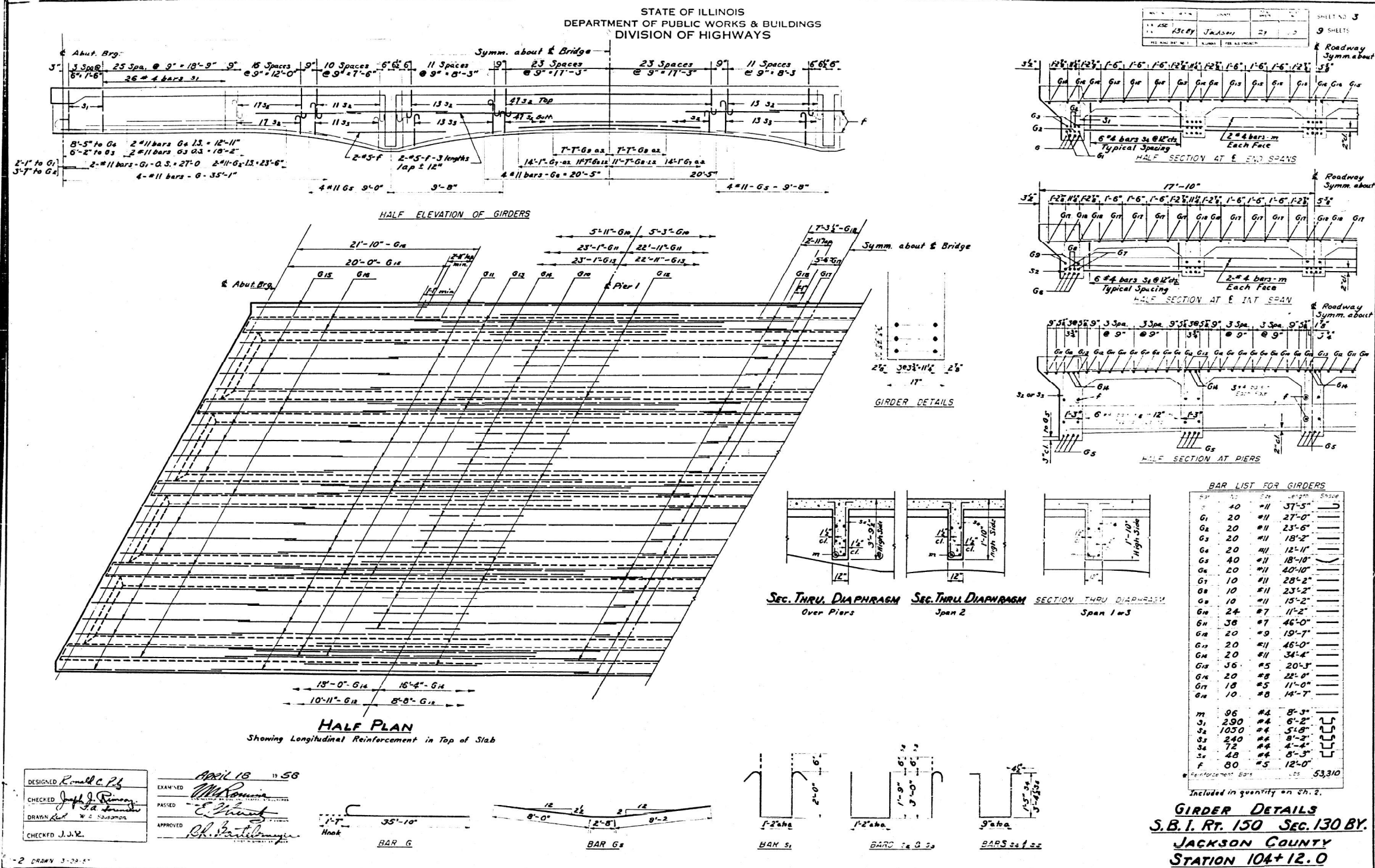
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING BRIDGE PLANS
STRUCTURE NO. 039-0026

SHEET 7 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	67
CONTRACT NO. 78967				
ILLINOIS FED. AID PROJECT				



FOR INFORMATION ONLY

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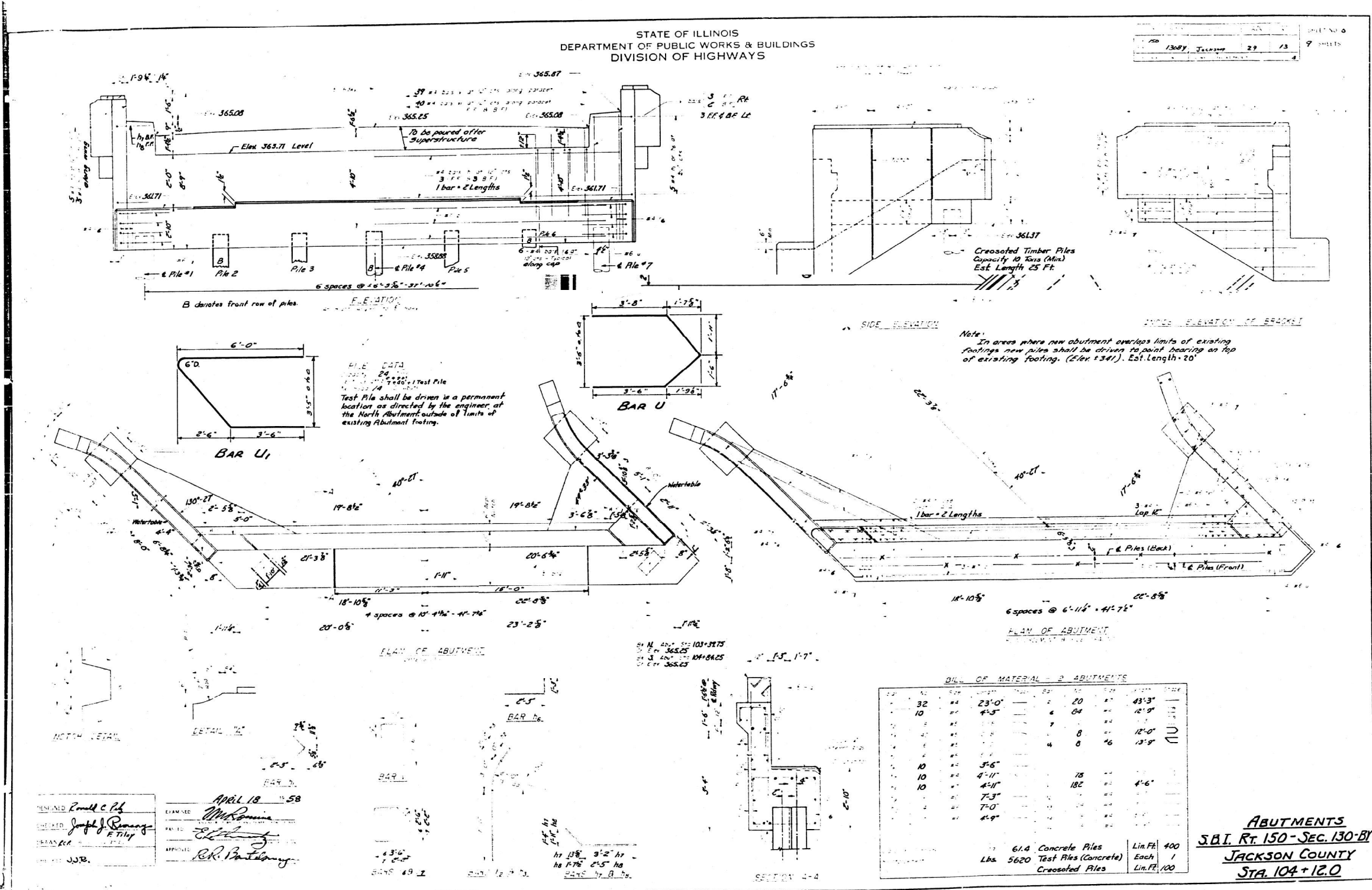
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

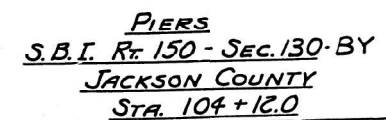
EXISTING BRIDGE PLANS
STRUCTURE NO. 039-0026

SHEET 8 OF 9 SHEETS

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	68
CONTRACT NO. 78967				
ILLINOIS FED. AID PROJECT				

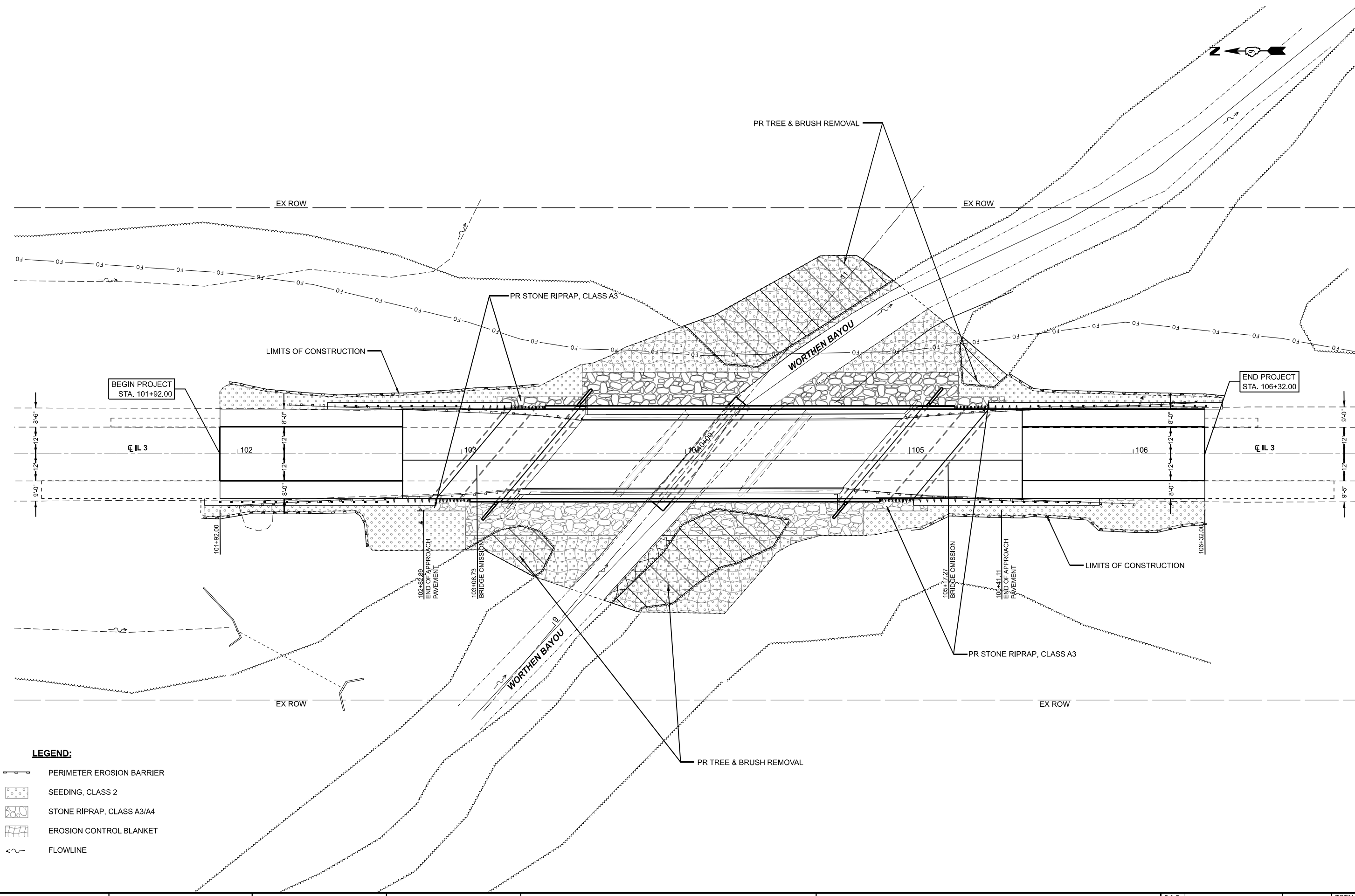


FOR INFORMATION ONLY



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LEGEND:

- PERIMETER EROSION BARRIER
- SEEDING, CLASS 2
- STONE RIPRAP, CLASS A3/A4
- EROSION CONTROL BLANKET
- FLOWLINE



USER NAME = ShelbySkinner
PLOT SCALE = \$SCALE\$
PLOT DATE = 12/3/2025

DESIGNED -
DRAWN -
CHECKED -
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**EROSION CONTROL PLAN
IL 3**

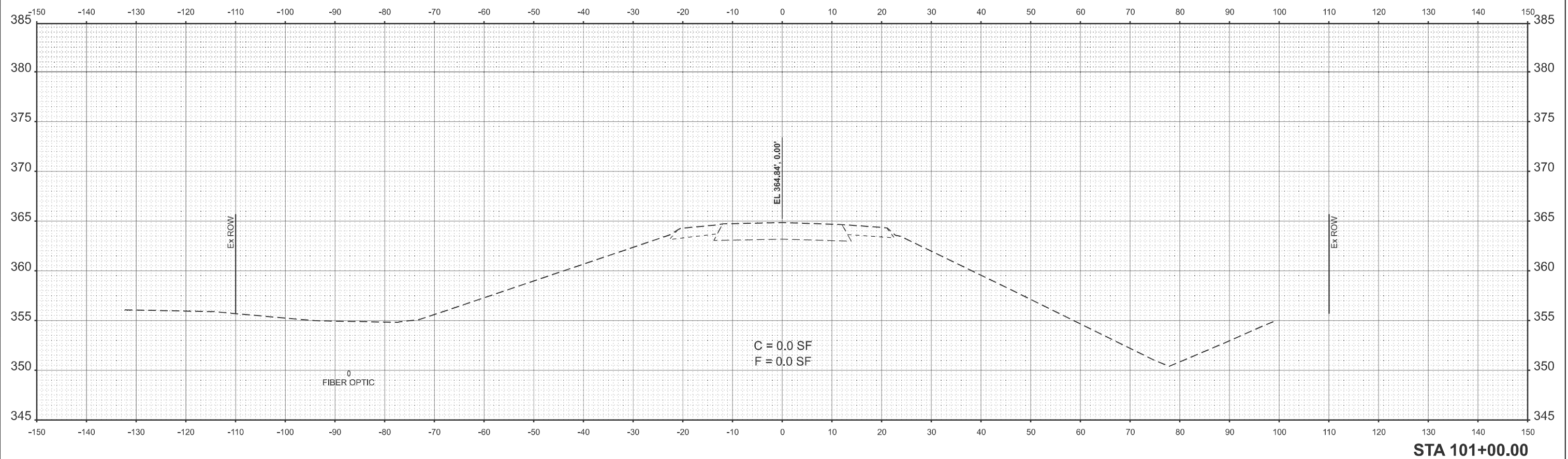
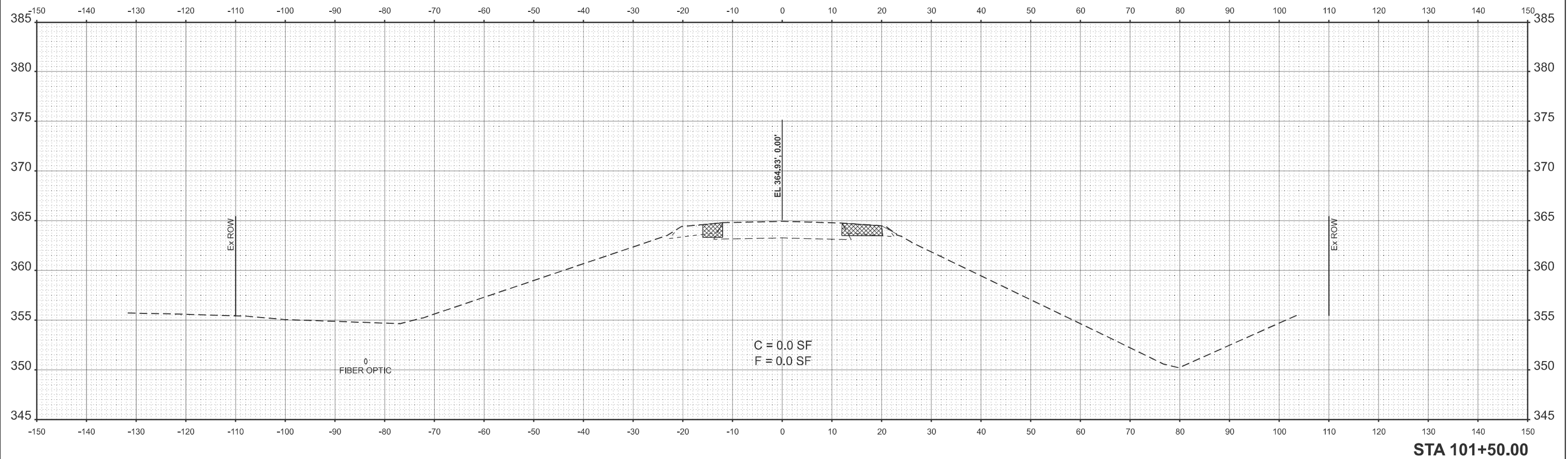
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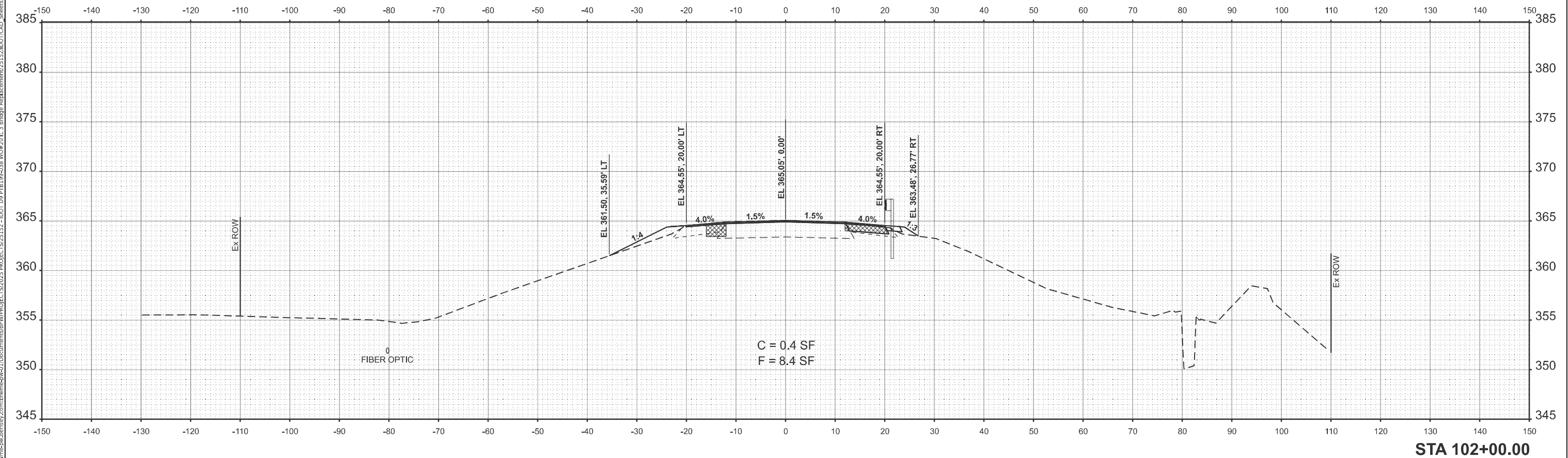
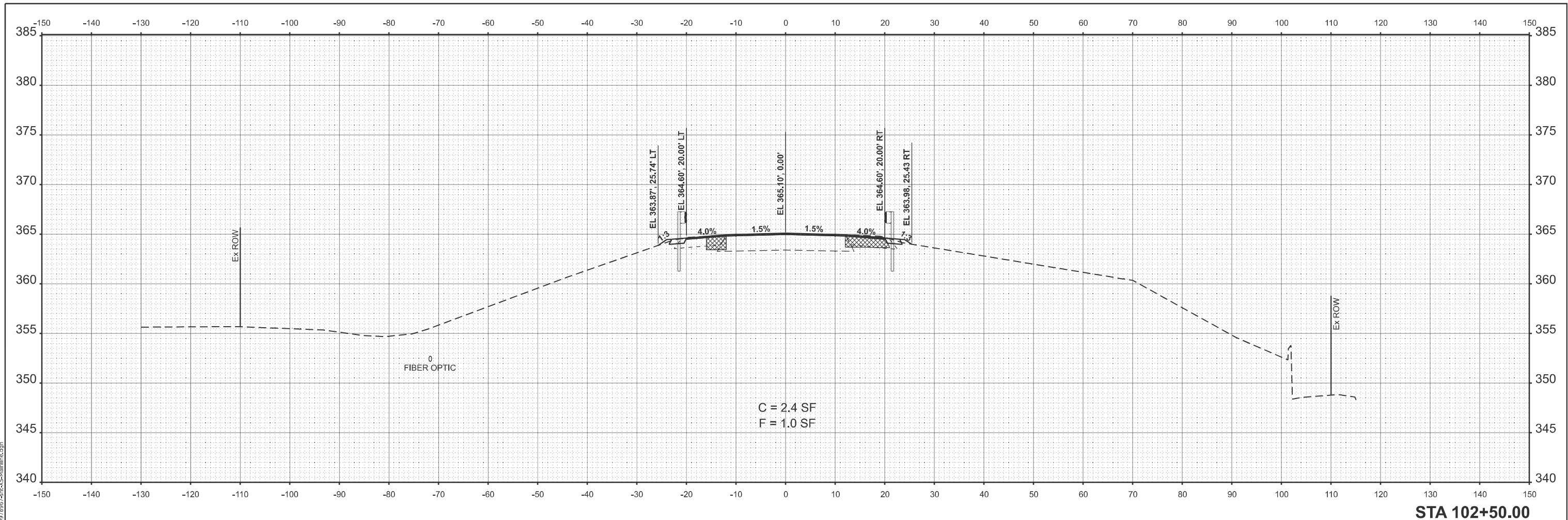
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312	130B-1	JACKSON	83	70
CONTRACT NO. 78967				
ILLINOIS FED. AID PROJECT				



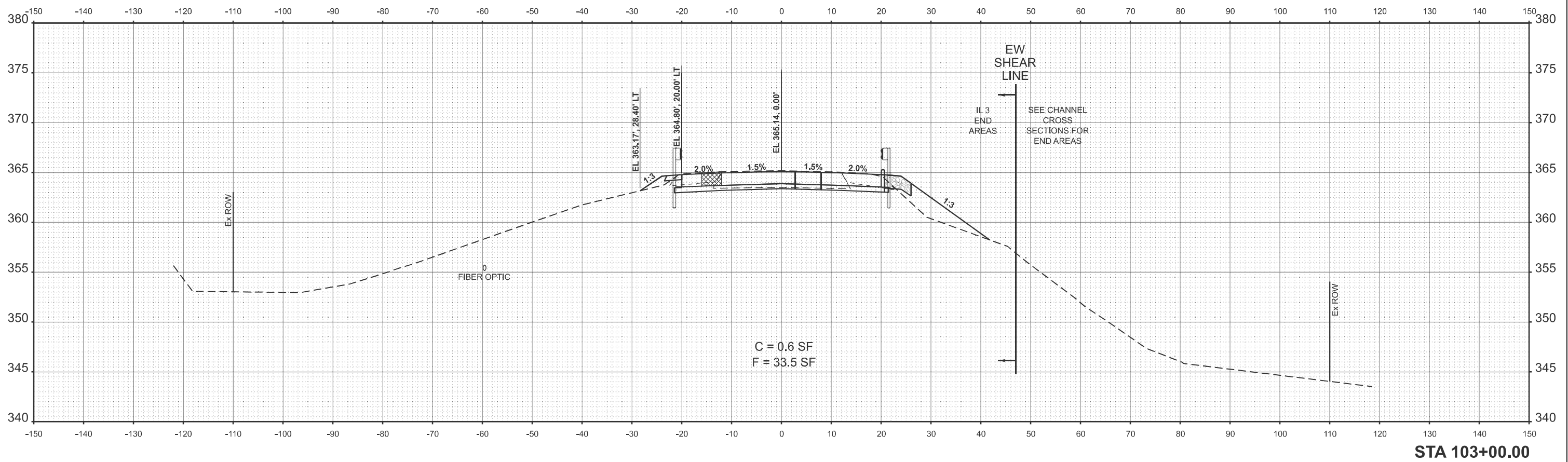
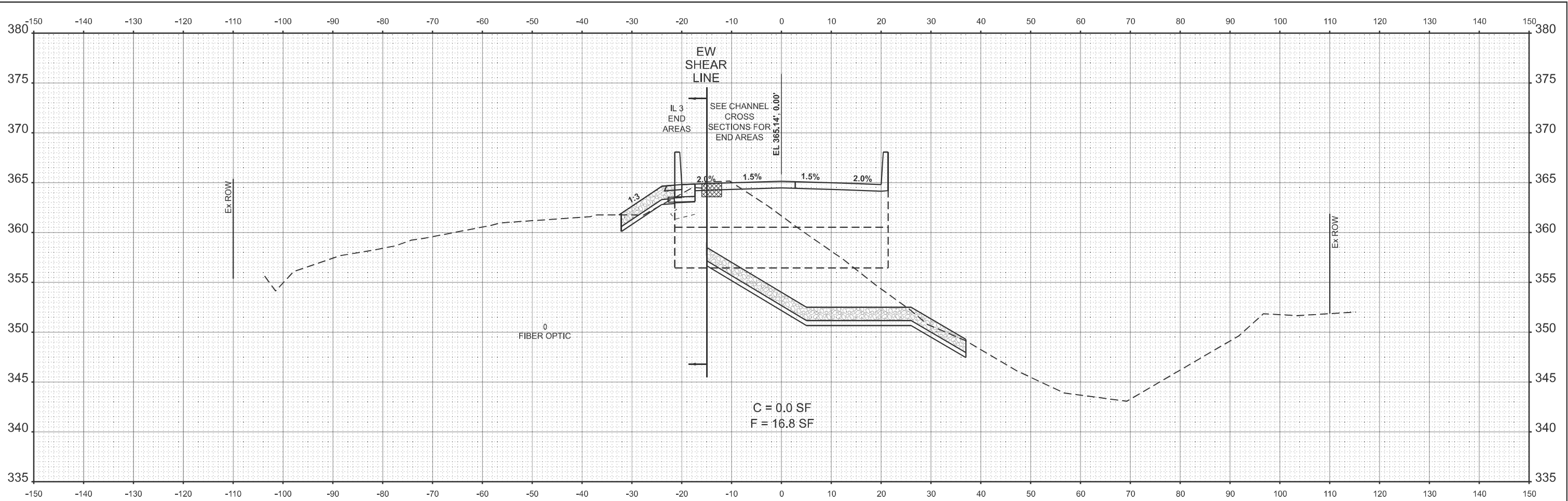
IL 3
STA 101+92.00
STA 102+73.58 - BUTT JT AT PCC PAVT CONN.
STA 105+50.42 - BUTT JT AT PCC PAVT CONN.
STA 106+32.00

USER NAME = sskinner	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	HMA BUTT JOINT			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	DATE -	REVISED -						ILLINOIS	FED. AID PROJECT		

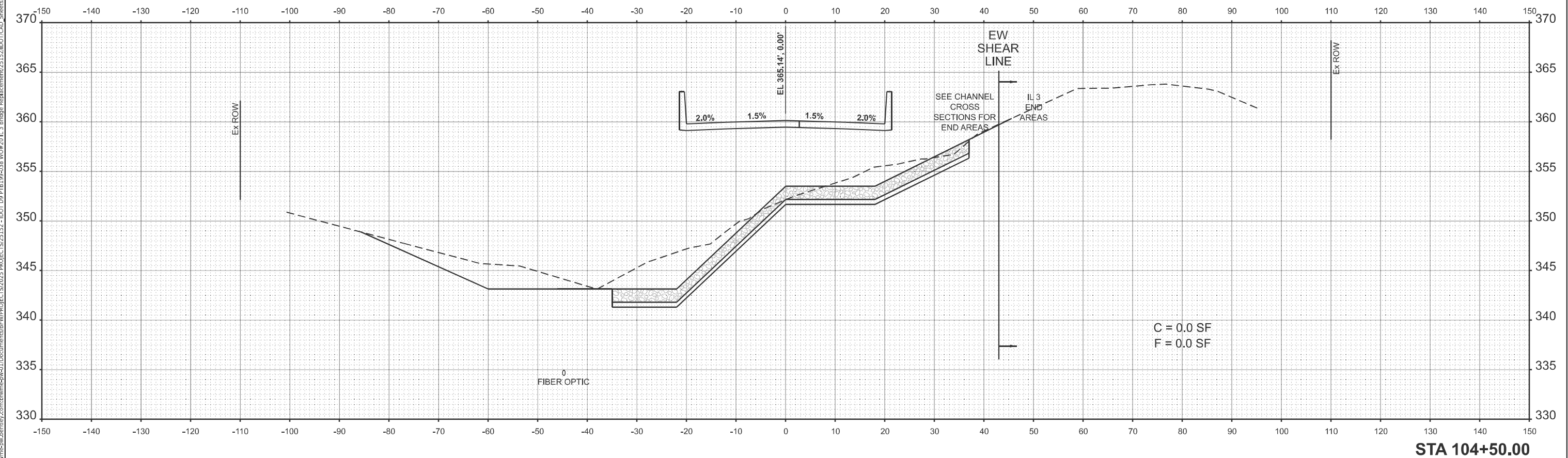
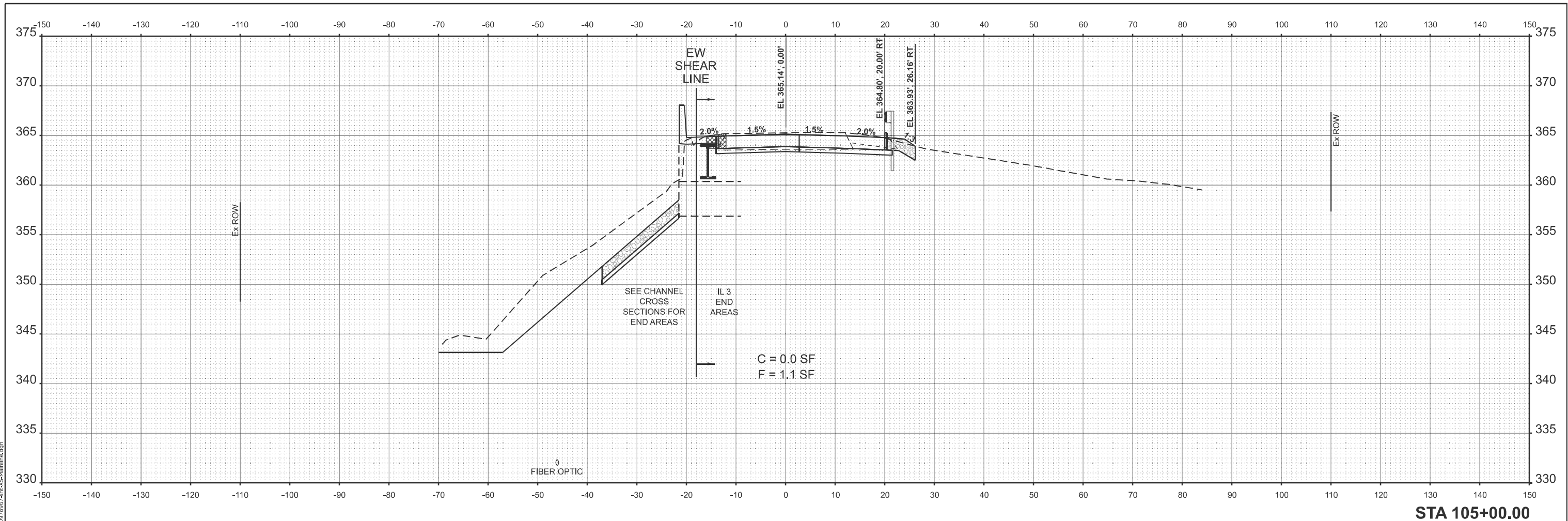




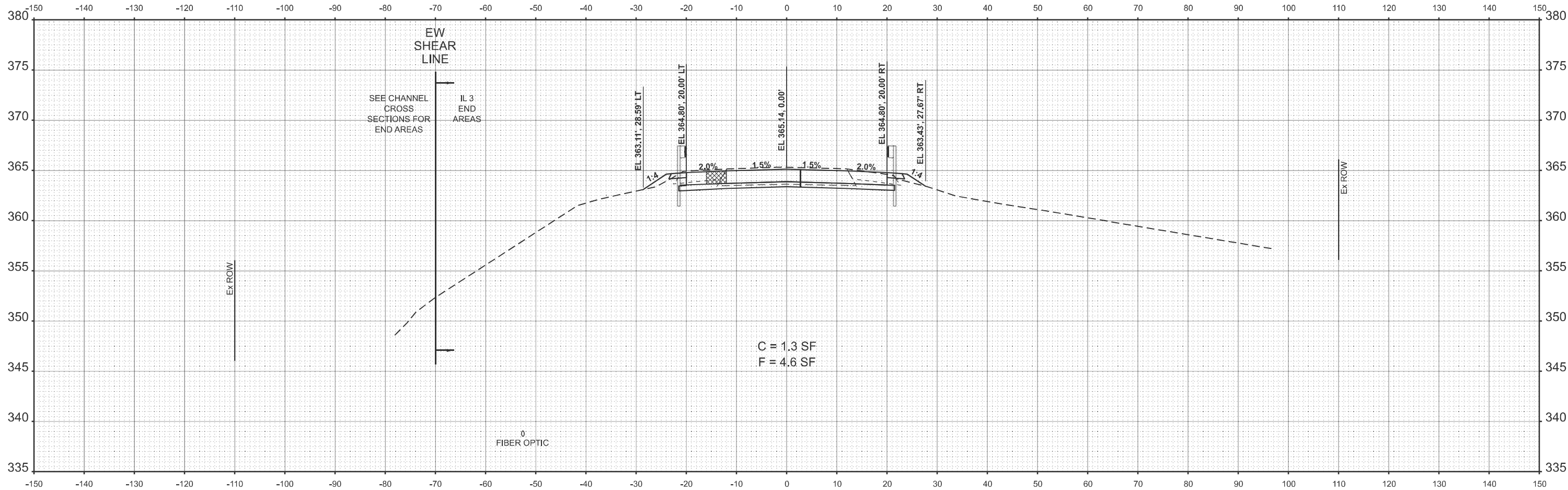
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 ENGINEERING & CONSULTING	USER NAME = ShelbySkinner	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS IL 3				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 11/26/2025	DATE -	REVISED -		SHEET 3 OF 7 SHEETS				ILLINOIS FED. AID PROJECT				
						STA. 103+00.00 TO STA. 103+50.00							



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STA 105+50.00



ENGINEERING
& CONSULTING

USER NAME	= ShelbySkinner	DESIGNED	-	REVISED	-
DRAWN	-	REVIS	-	REVISED	-
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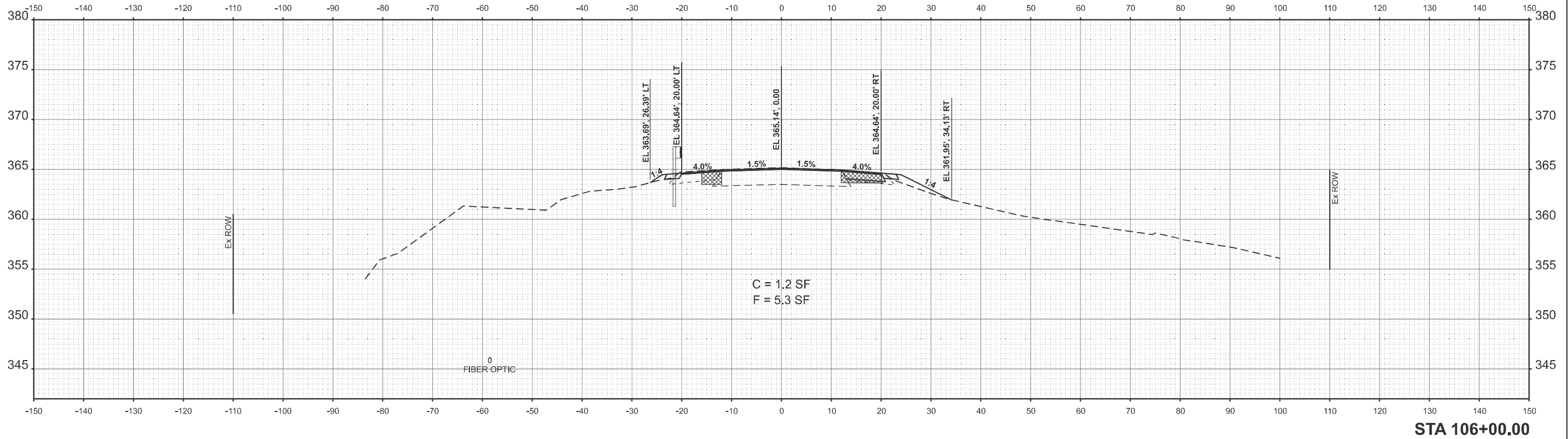
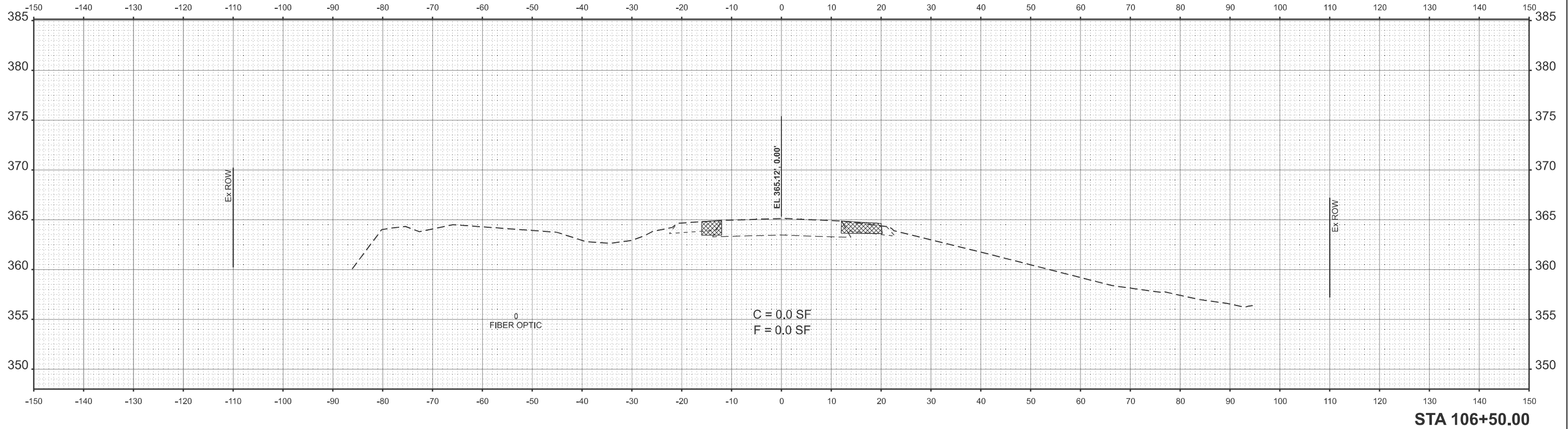
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
IL 3

SCALE: 1"=10' SHEET 5 OF 7 SHEETS STA. 105+50.00 TO STA. 105+50.00

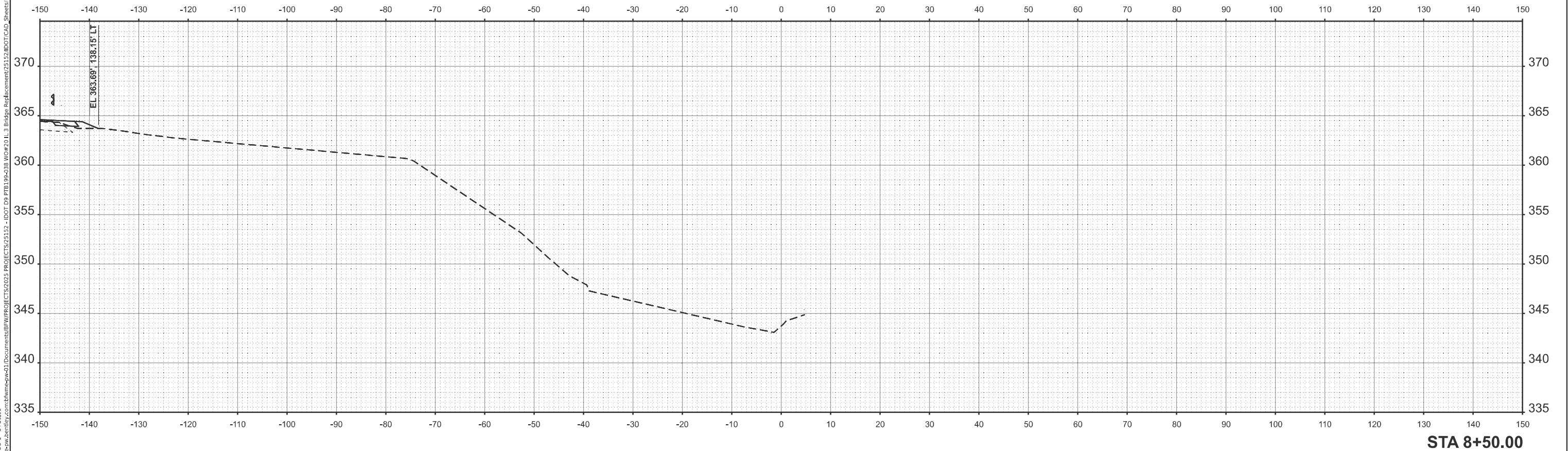
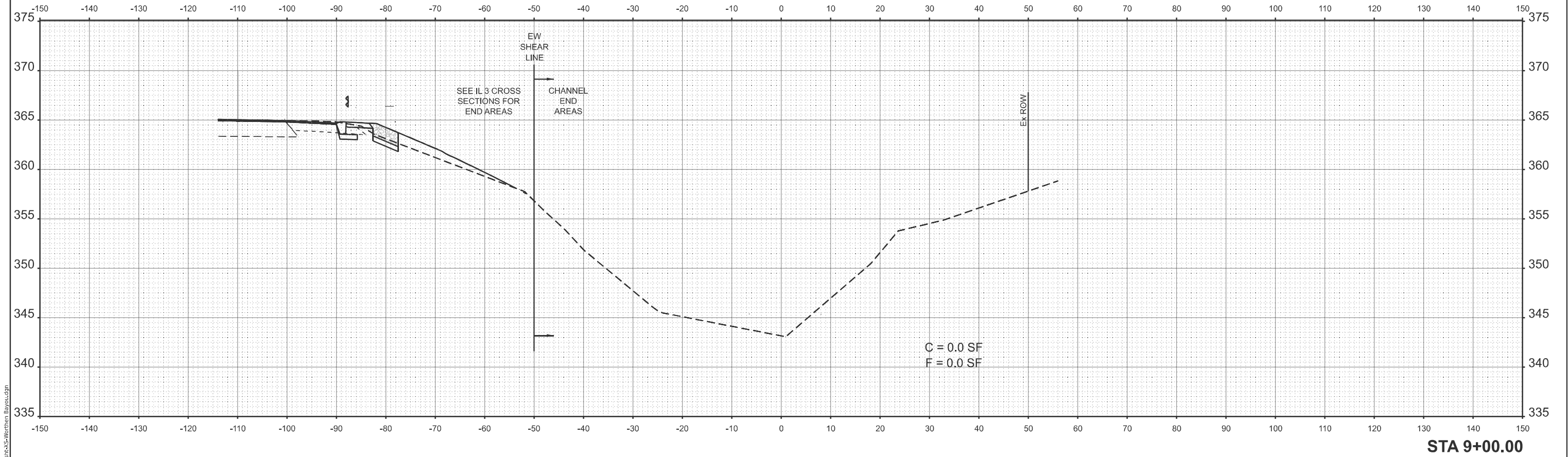
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	1308-1	JACKSON	83	76
CONTRACT NO. 78967				
ILLINOIS FED. AID PROJECT				

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 ENGINEERING & CONSULTING	USER NAME = ShelbySkinner	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CROSS SECTIONS IL 3				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 11/26/2025	DATE -	REVISED -						ILLINOIS FED. AID PROJECT				
					SCALE: 1"=10'	SHEET 6 OF 7 SHEETS	STA. 106+00.00 TO STA. 106+50.00						

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PLOT DATE	= 11/26/2025	DATE	-	REVISED	-

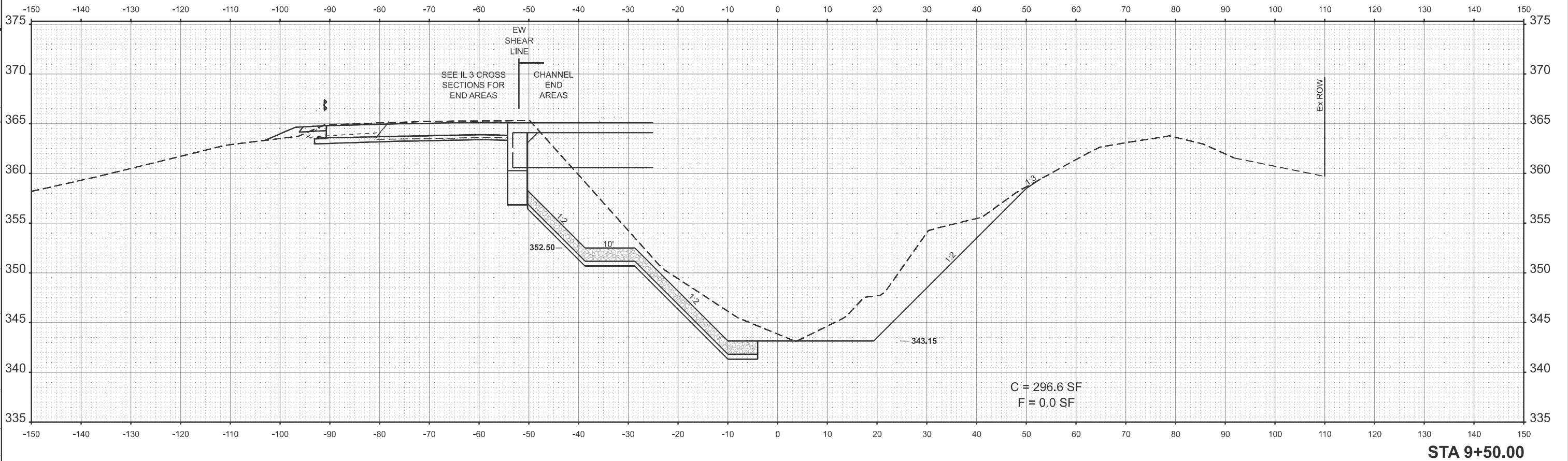
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
WORTHEN BAYOU

SCALE: 1"=10' SHEET 1 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	79
CONTRACT NO. 78967				
ILLINOIS FED. AID PROJECT				

MODEL: WORTHEN BAYOU-1 0+50.00
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USER NAME	= ShelbySkinner	DESIGNED	-	REVISED	-
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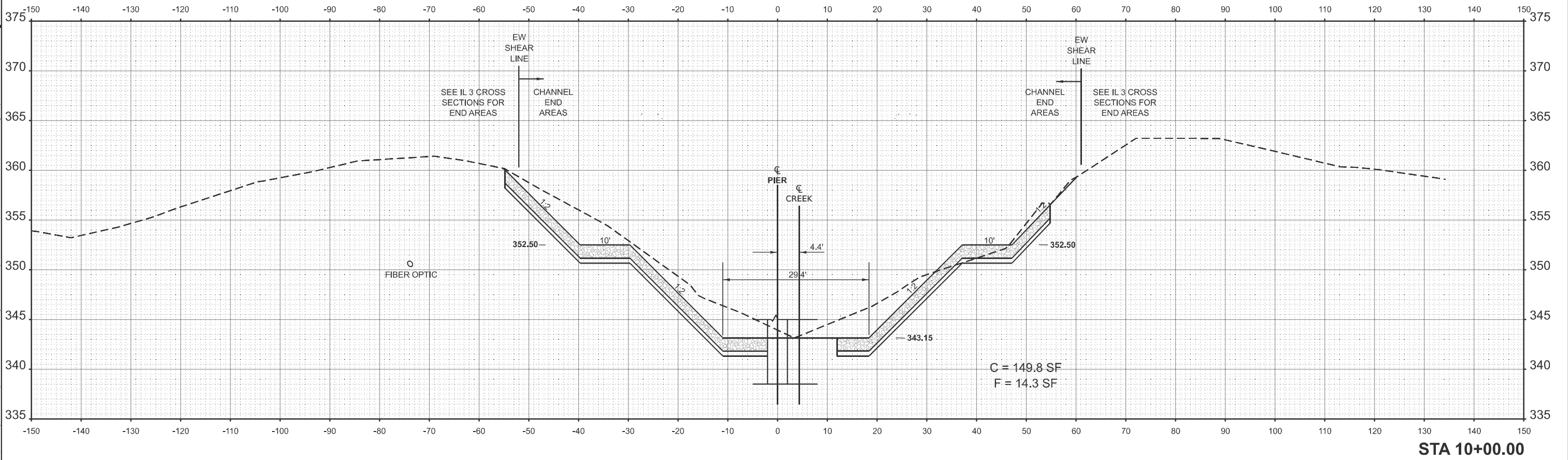
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
WORTHEN BAYOU

SCALE: 1"=10' SHEET 2 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	80
CONTRACT NO. 78967				
ILLINOIS FED. AID PROJECT				

MODEL: WORTHEN BAYOU-1_10+00.00
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STA 10+00.00



USER NAME	= ShelbySkinner	DESIGNED	-	REVISED	-
DRAWN	-	REVIS	-	REVISED	-
PLOT SCALE	= \$SCALE\$	CHECKED	-	REVISED	-
PLOT DATE	= 11/26/2025	DATE	-	REVISED	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CROSS SECTIONS
WORTHEN BAYOU

SCALE: 1"=10' SHEET 3 OF 5 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
312	130B-1	JACKSON	83	81
CONTRACT NO. 78967				
ILLINOIS FED. AID PROJECT				

