

PROJECT	DESIGNATION
1900162	2002072 & 2002073
CONTRACT	BRIDGE FILE
R-45584	150-22-05230 CEB & CWB

STRUCTURE INFORMATION				
STRUCTURE	TYPE	SPAN AND SKEW	OVER	STATION
150-22-05230 CEB & CWB	TWIN CONTINUOUS COMPOSITE PRESTRESSED CONCRETE BOX BEAM BRIDGES	3 SPANS: 40'-6", 56'-6", 40'-6" SKEW: 22°30'00" LT.	LITTLE INDIAN CREEK	C STRUCTURE STA.134+31.12 "PR-A"

KIN PROJECT INFORMATION		
DESIGNATION	PROJECT DESCRIPTION	
ROAD		
1900366	US 150 and Old Vincennes Road (East)	LEAD DES
BRIDGE		
2002072	US 150 EB over Little Indian Creek, Str.No.150-22-05230 CEB	STR. 1
2002073	US 150 WB over Little Indian Creek, Str.No.150-22-05230 CWB	STR. 2

INDIANA DEPARTMENT OF TRANSPORTATION



BRIDGE REHABILITATION PLANS

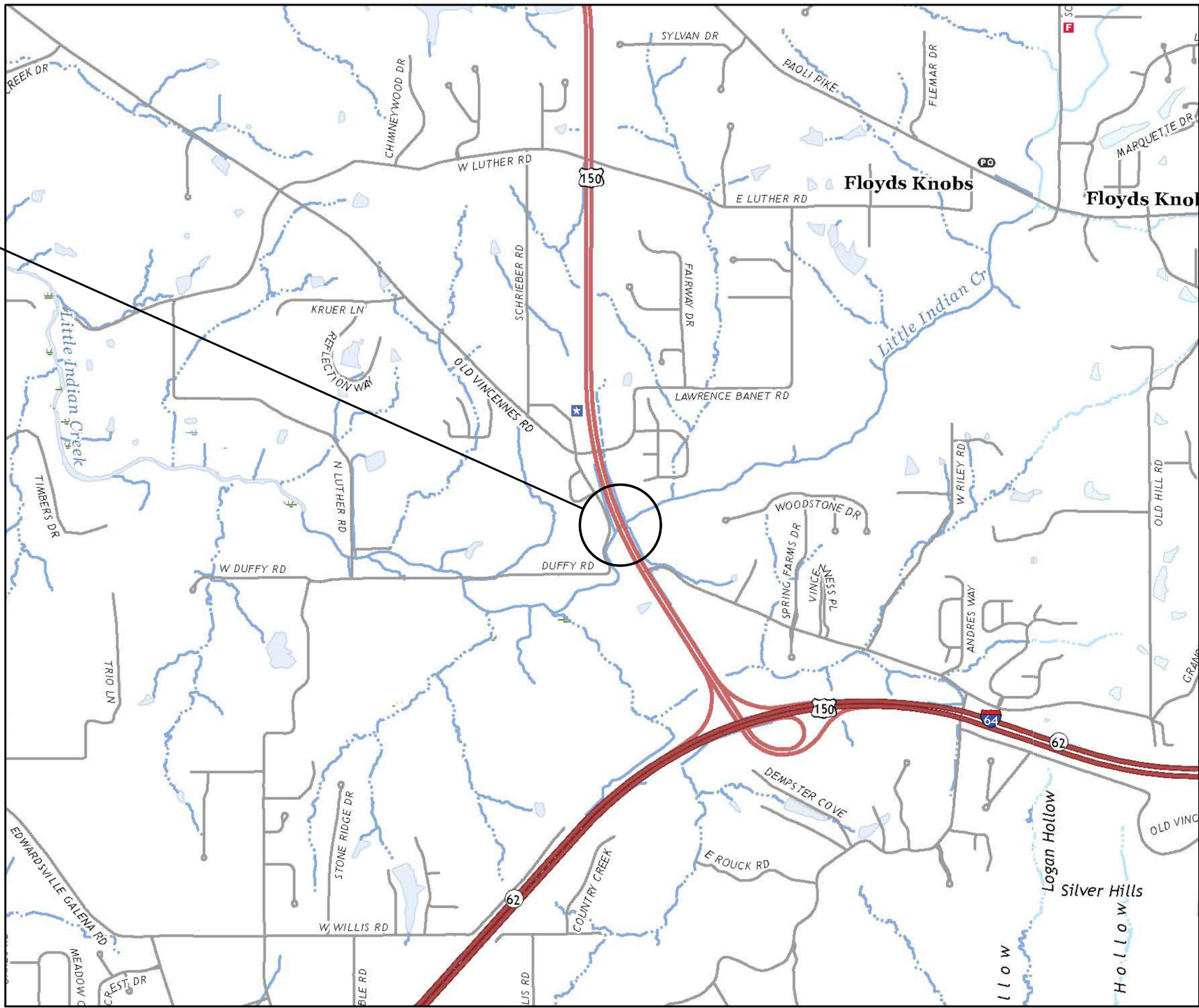
FOR SPANS OVER 20 FEET
ROUTE: US 150 AT: RP 171+45.2

PROJECT NO. 2002072 & 2002073 P.E.
R/W
2002072 & 2002073 CONST.

NO ADDITIONAL RIGHT-OF-WAY
REQUIRED FOR THIS PROJECT

Superstructure Replacement on US 150 over Little Indian Creek
Located 0.65 miles west of I-64
Section 30, T-2-S, R-6-E, Lafayette Township, Floyd County, Indiana

PROJECT LOCATION
Begin Project-Sta.132+84.00 "PR-A"
End Project-Sta.135+80.00 "PR-A"



LOCATION MAP
SCALE: 1" = 2000'

TRAFFIC DATA

A.A.D.T.	(2025)	30,638	V.P.D.
A.A.D.T.	(2045)	37,072	V.P.D.
D.H.V	(2045)	3,028	V.P.H.
DIRECTIONAL DISTRIBUTION		50.42	%
TRUCKS		4.19 %	A.A.D.T.
		2.32 %	D.H.V.

DESIGN DATA

DESIGN SPEED	50 M.P.H.
PROJECT DESIGN CRITERIA	3R (NON-FREEWAY)
FUNCTIONAL CLASSIFICATION	MINOR ARTERIAL
RURAL/URBAN	URBAN (SUBURBAN)
TERRAIN	LEVEL
ACCESS CONTROL	PARTIAL



PROJECT LOCATION SHOWN BY
FLOYD COUNTY

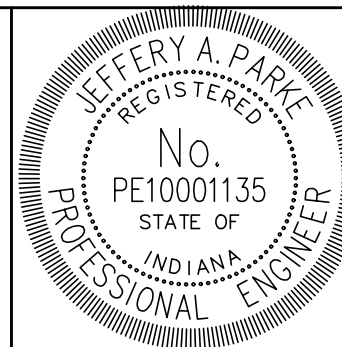
LATITUDE: 38°18'39.60"N LONGITUDE: 85°53'49.20"W

BRIDGE LENGTH: 0.027 MI.
ROADWAY LENGTH: 0.023 MI.
TOTAL LENGTH: 0.050 MI.
MAX. GRADE: -0.90 %

HUC 12: 051401040302
HUC 14: 05140104080060

INDIANA DEPARTMENT OF TRANSPORTATION
STANDARD SPECIFICATIONS DATED 2024
TO BE USED WITH THESE PLANS.

PLANS PREPARED BY:



PLANS PREPARED BY: Egis BLN USA, Inc.
8320 Craig Street | Indianapolis, IN 46250
(317) 849-5832
www.egis-group.com

CERTIFIED BY: *Jeffery A. Parke* 9/16/2024
DATE

APPROVED FOR LETTING: *Stephanie D. Wagner* 11/27/2024
DATE
INDIANA DEPARTMENT OF TRANSPORTATION

	BRIDGE FILE		
	150-22-05230 CEB & CWB		
	DESIGNATION		
	2002072 & 2002073		
DRAWING NO.	SHEETS		
	1	of	68
CONTRACT	PROJECT		
R-45584	1900162		

UTILITIES

AT&T

510 E Spring St.

New Albany, IN 47150

Attn: Brian Gullion

Ph: 317-554.2468

Email: bg548b@att.com

CITY OF NEW ALBANY - SANITARY

303 Scribner Dr.

New Albany, IN 47150

Attn: Scott Wilkinson

Ph: 812-948-5320

Email: swilkinson@cityofnewalbany.com

CHARTER COMMUNICATIONS

10168 Linn Station Road

Louisville, KY 40223

Attn: Kevin Mercer

Ph: 502-817-5055

Email: kevin.mercer@charter.com

RAMSEY WATER CO.

415 Hwy. 64 NW

Ramsey, IN 47166

Attn: Josh Dixon

Ph: 812-347-2551

Email: jdixon@ramseywater.com

DUKE ENERGY - TRANSMISSION

1000 E. Main St.

Plainfield, IN 46168

Attn: Zach Boston

Ph: 317-838-1053

Email: DEI-Tline-Coord@duke-energy.com

FLOYDS KNOB WATER

744 Highlander Point Dr.

Floyds Knobs, IN 47119

Attn: Danny Standiford

Ph: 812-923-9040

Email: Waterdrip@twc.com

HARRISON COUNTY REMC

1165 Old Forest Road

Corydon, IN 47112

Attn: Cody Hussung

Ph: 812-734-3564

Email: CHussung@harrisoncoremc.com

INDIANA AMERICAN WATER

153 N. Emerson Ave.

Greenwood, IN 46143

Attn: Ed Bergsieker

Email: Ed.Bergsieker@amwater.com

Email: inutilitycoordination@amwater.com

DON'T

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SEZ

CALL TWO WORKING DAYS BEFORE YOU DIG

1-800-382-5544

CALL TOLL FREE

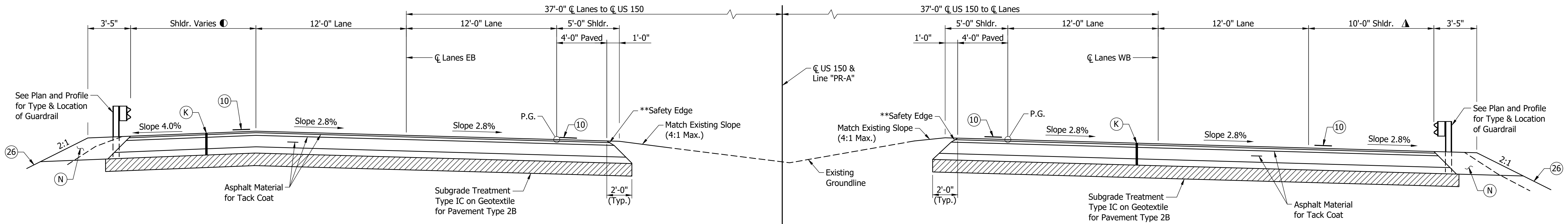
1-800-428-5200

FOR CALLS OUTSIDE OF INDIANA

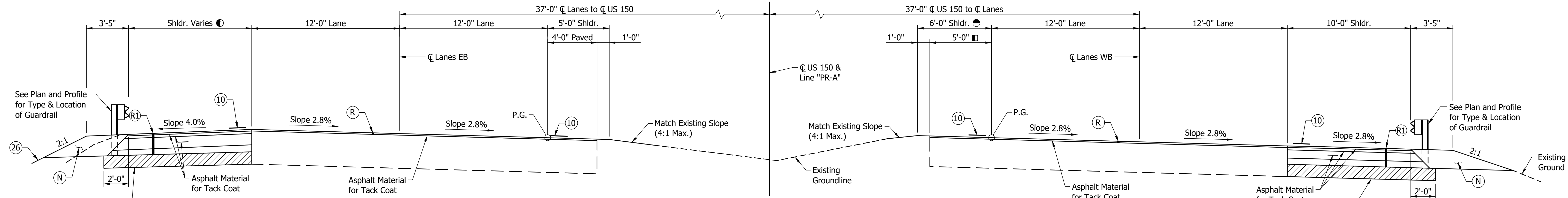
REVISIONS		
SHEET NO.	DATE	REVISED

INDEX		
SHEET NO.	DRAWING NO.	SUBJECT
1		TITLE SHEET
2		INDEX SHEET
3		TYPICAL SECTIONS
4 - 13		MAINTENANCE OF TRAFFIC
14		GEOMETRIC TIE
15 - 16		PLAN & PROFILE - LINE "PR-A"
17		EROSION CONTROL PLAN - LINE "PR-A"
18		PAVEMENT MARKING PLAN & SIGN DETAILS - LINE "PR-A"
19		SOIL BORINGS
20	C1	LAYOUT - LINE "PR-A"
21 - 23	C2 - C4	GENERAL PLAN
24	C5	TIE UP DIAGRAM
25 - 26	C6 - C7	REMOVAL DETAILS
27 - 34	C8 - C15	END BENT DETAILS
35 - 38	C16 - C19	PIER DETAILS
39	C20	FRAMING PLAN
40	C21	BEAM DETAILS
41	C22	BEARING ASSEMBLY DETAILS
42 - 48	C23 - C29	SUPERSTRUCTURE DETAILS
49	C30	BRIDGE RAILING DETAILS
50 - 52	C31 - C33	SCREEDS
53 - 57	C34 - C38	APPROACH SLAB DETAILS
58		BRIDGE SUMMARY OF QUANTITIES
59 - 60		ROAD SUMMARY OF QUANTITIES
61 - 68		CROSS SECTIONS - LINE "PR-A"

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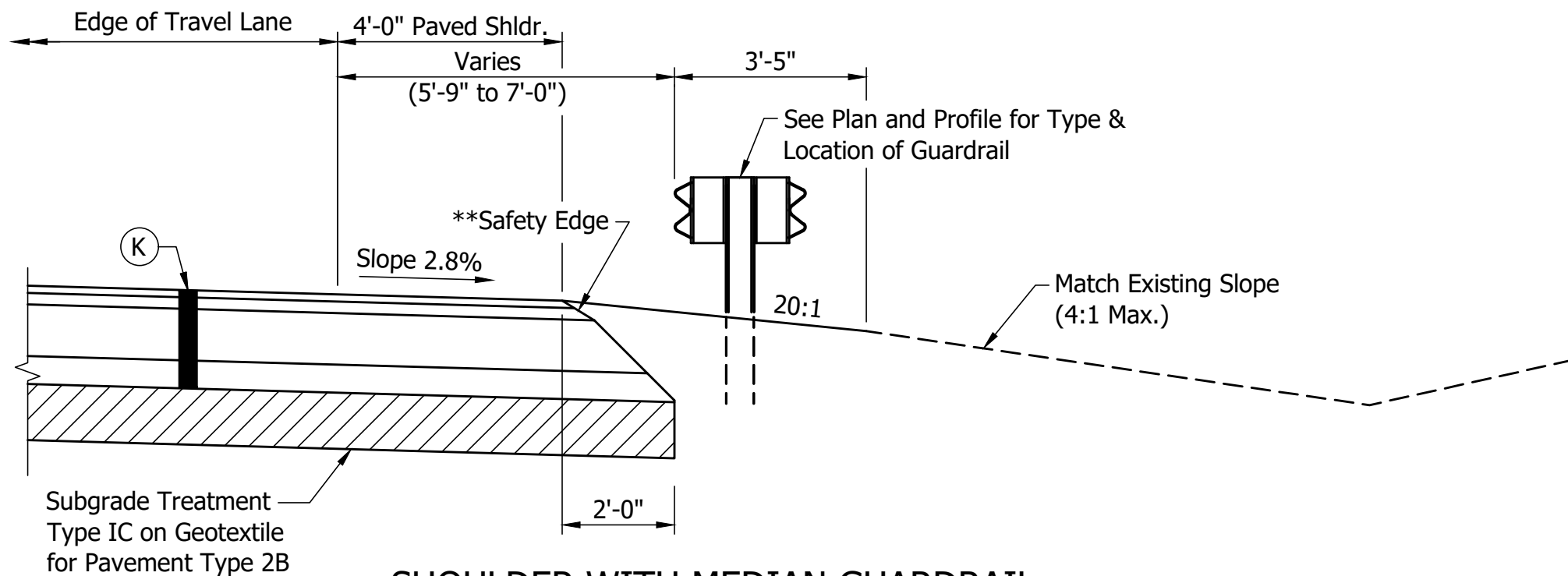
TYPICAL SECTION
Sta.132+84.00 "PR-A" to Sta.133+16.52 "PR-A" EBL
Sta.135+13.04 PR-A" to Sta.135+46.00 "PR-A" EBL
Sta.133+15.00 "PR-A" to Sta.133+48.31 "PR-A" WBL
Sta.135+46.56 "PR-A" to Sta.135+80.00 "PR-A" WBL
Scale: 1/4" = 1'-0"



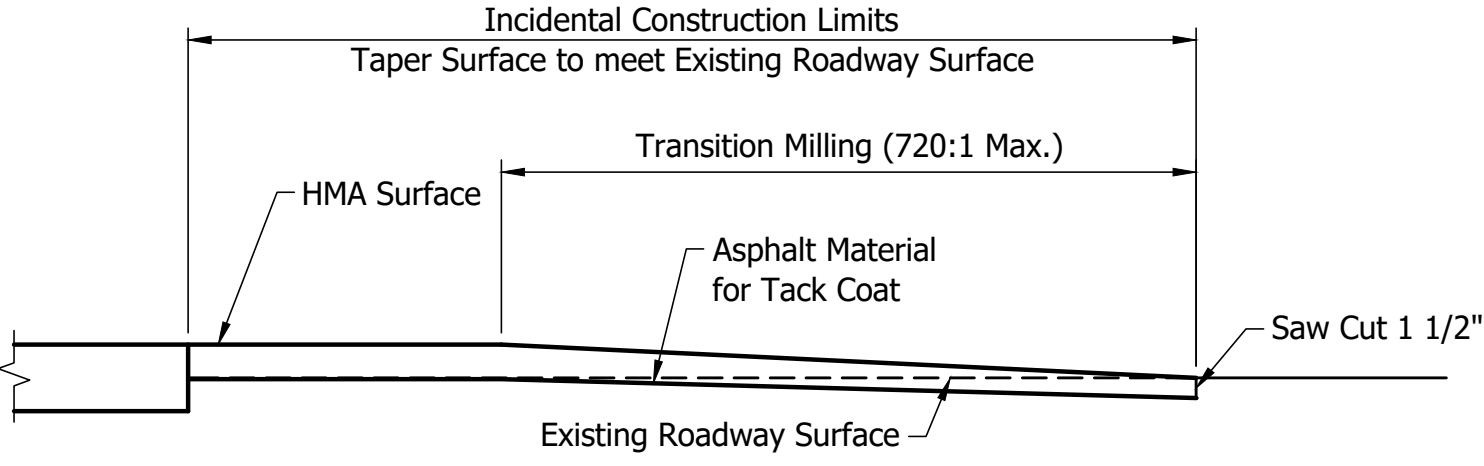
TYPICAL SECTION
Sta.135+46.00 "PR-A" to Sta.135+96.00 "PR-A" EBL
Sta.135+80.00 "PR-A" to Sta.136+30.00 "PR-A" WBL
Scale: 1/4" = 1'-0"

LEGEND

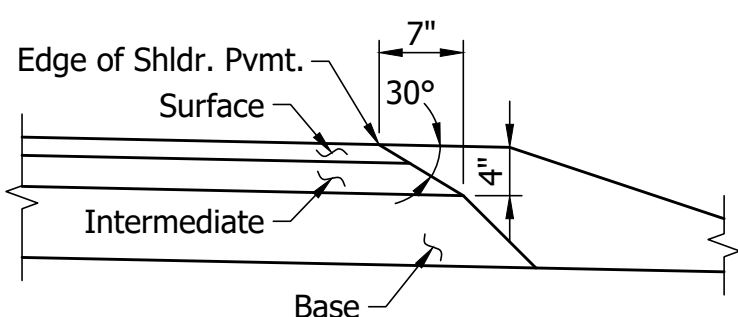
- (K) 165 lbs/syd QC/QA-HMA, 3, 58H, Surface, 9.5 mm on 275 lbs/syd QC/QA-HMA, 3, 58H, Intermediate, 19.0 mm on 1210 lbs/syd QC/QA-HMA, 3, 58S, Base, 25.0 mm on 6 inches of Compacted Aggregate, No.53
- (N) Compacted Aggregate, No.53
- (R) 165 lbs/syd QC/QA-HMA, 3, 58H, Surface, 9.5 mm
- (10) Milled HMA Corrugations, Conventional.
- (26) Seed, Mixture, U
- ** Safety edge required in areas without guardrail. Safety edge required in areas with guardrail where the guardrail face does not align with the edge of the paved shoulder.
- (R1) 165 lbs/syd QC/QA-HMA, 3, 58H, Surface, 9.5 mm on 275 lbs/syd QC/QA-HMA, 3, 58H, Intermediate, 19.0 mm on Variable depth QC/QA-HMA, 3, 58S, Base, 25.0 mm (880 lbs/syd min., match existing travel lane pavement depth) on 6 inches of Compacted Aggregate, No.53
- Paved Shoulder Width Varies:
4'-0" to 5'-0" from Sta.135+80.00 "PR-A" to Sta.136+04.32 "PR-A"
- Shoulder Width Varies:
5'-0" to 6'-0" from Sta.135+80.00 "PR-A" to Sta.136+04.32 "PR-A"
- Paved Shoulder Width Varies:
12'-0" to 11'-9" from Sta.132+84.00 "PR-A" to Sta.133+16.52 "PR-A"
11'-0" from Sta.135+13.04 "PR-A" to Sta.135+55.57 "PR-A"
11'-0" to 8'-7" from Sta.135+55.57 "PR-A" to Sta.135+96.00 "PR-A"
- ▲ Paved Shoulder Varies:
12'-0" to 10'-9" from Sta.133+15.00 "PR-A" to Sta.133+48.31 "PR-A"



SHOULDER WITH MEDIAN GUARDRAIL
Scale: 3/8" = 1'-0"

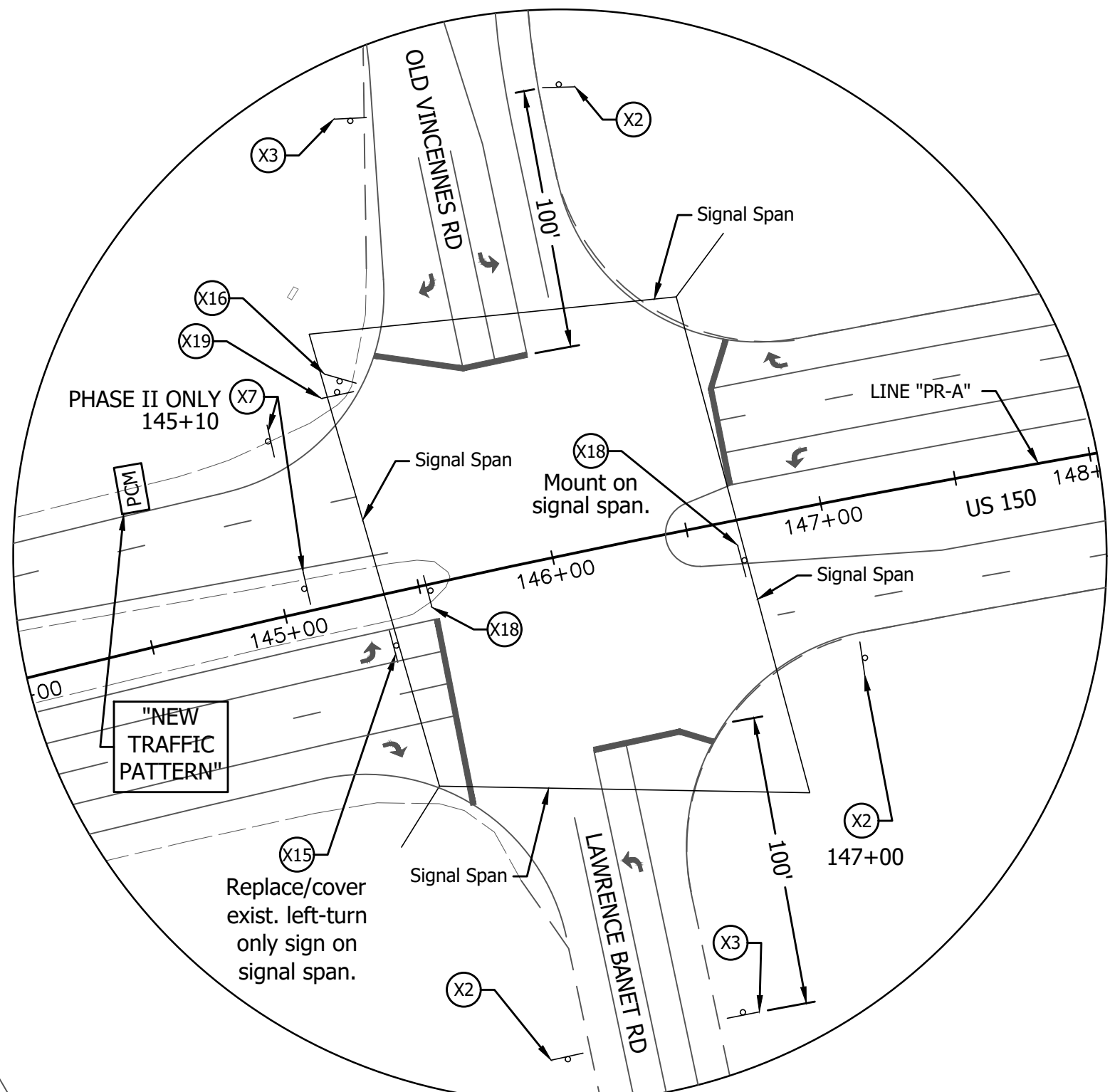


MATCHING EXISTING PAVEMENT
(Req'd. @ North End of Project)
Not to Scale

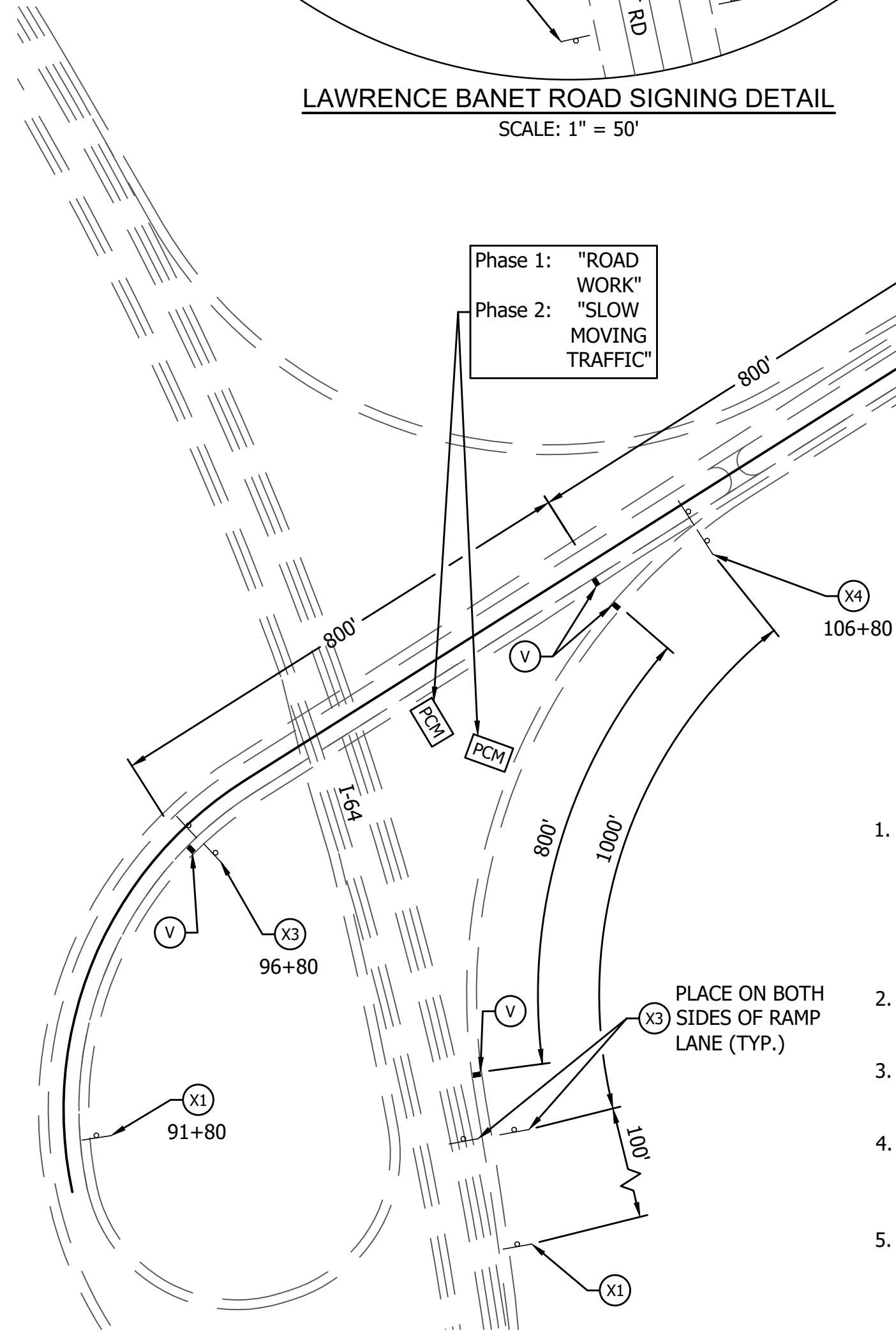


30° SAFETY EDGE
Scale: 3/4" = 1'-0"

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LAWRENCE BANET ROAD SIGNING DETAIL
SCALE: 1" = 50'



MAINTENANCE OF TRAFFIC - GENERAL NOTES

- THE MAINTENANCE OF TRAFFIC LISTED HERE IS ONLY A RECOMMENDATION AND SHOULD THE CONTRACTOR DESIRE TO ADOPT ANOTHER METHOD OF MAINTAINING TRAFFIC DURING CONSTRUCTION, IT SHALL BE SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL IN ADVANCE OF THE COMMENCEMENT OF WORK IN THE AFFECTED AREA.
- ALL CONSTRUCTION SIGNS, DRUMS, AND BARRICADES SHALL BE EQUIPPED WITH CONSTRUCTION WARNING LIGHTS, TYPE A.
- THE CONTRACTOR SHALL FURNISH, ERECT AND MAINTAIN ALL CONSTRUCTION SIGNS AND BARRICADES AS SHOWN.
- ACTUAL CONSTRUCTION SIGN LOCATION SHALL BE DETERMINED BY THE ENGINEER. THE LOCATIONS SHOWN ARE APPROXIMATE AND MAY BE ADJUSTED BY THE ENGINEER.
- EXISTING PAVEMENT MARKINGS THAT CONFLICT WITH THE MAINTENANCE OF TRAFFIC SCHEME SHALL BE REMOVED OR COVERED WITH REMOVABLE TEMPORARY PAVEMENT MARKINGS PRIOR TO CONSTRUCTION, INCLUDING PRISMATIC REFLECTORS IN SNOWPLOWABLE RAISED PAVEMENT MARKERS.
- MAINTENANCE OF TRAFFIC SHALL BE IN ACCORDANCE WITH SECTION 104.04 AND THE INDIANA MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, DATED 2011, WITH REVISIONS #1-#3, AND THE MAINTAINING TRAFFIC SEQUENCE FOR INDIVIDUAL SEGMENTS AS DETAILED.
- ACCESS TO LOCAL ROADS AND DRIVEWAYS TO BE MAINTAINED AT ALL TIMES.
- CHANNELIZING DEVICES (DRUMS) SHALL BE SPACED AT 25' IN TAPERED SECTIONS AND 50' IN TANGENT SECTIONS, UNLESS OTHERWISE NOTED.
- TEMPORARY BUZZ STRIPS SHALL BE PLACED WHERE SHOWN AND IN ACCORDANCE WITH STANDARD DRAWING "TEMPORARY TRANSVERSE RUMBLE STRIPS" (E 801-TCDV-10).

LEGEND

- Channelizing Device
- Traffic Flow Arrow
- PCM Portable Changeable Message Sign
- Shoulder Strengthening
165 lb/syd QC/QA HMA 3, 58H, Surface, 9.5 mm, on Milling, Asphalt, 1.5 in.
- HMA for Temp. Pavement
1100 lb/syd HMA for Temporary Pavement, Type C, on
165 lb/syd HMA Surface, Type C, on
275 lb/syd HMA Intermediate, Type C, on
660 lb/syd HMA Base, Type C
Subgrade Treatment, Type IC
- A Barricade, III-A
- B Barricade, III-B
- 71 Temp. Traffic Barrier, Type 1
- 72 Temp. Traffic Barrier, Type 2
- 75 Temp. Traffic Barrier, Type 1, Anchored
- 76 Temp. Traffic Barrier, Type 2, Anchored
- CZ Energy Absorbing Terminal, CZ, TL-3
- LS Lane Separator
- N Compacted Aggregate, No. 53
- V Temp. Buzz Strips
- W Temp. Pavement Marking, Removable, 6 in. (White, Solid)
- Y Temp. Pavement Marking, Removable, 6 in. (Yellow, Solid)
- Z Temp. Pavement Marking, Removable, 6 in. (Black, Solid)

CONSTRUCTION CLEAR ZONE = 16 FT

CONSTRUCTION ZONE DESIGN SPEED = 50 MPH

SIGN LEGEND

 XG20-7 (X1)	 XG20-2 (X2)	 XW20-1 (X3)	 XG20-5P XW3-5-B(40) (X4)
 XW20-2 (X5)	 XG20-5P R2-1-B(40) (X6)	 XW1-4b-B(L) (X7)	 XW1-4b-B(R) (X8)
 R4-5 (X9)	 R11-2 XM4-10L (X10)	 R3-5(R) (X11)	 R3-2 (X12)
 R3-6a (X13)	 R10-30 (X14)	 R5-1 R6-1R (X15)	 R5-1 R6-1L (X16)
 R10-30 (X17)	 R10-30 (X18)	 R10-30 (X19)	 R10-30 (X20)

*Detour Route Marker Assembly

* FOR MAINTENANCE OF TRAFFIC QUANTITY SUMMARY, SEE SHEET 5.

ALIGN

1285 S. Jackson Street, Suite B
Greencastle, IN 46135
765.653.6710
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2401 Directors Row, Suite D
Indianapolis, IN 46241



RECOMMENDED FOR APPROVAL
DESIGN ENGINEER
11/01/24
DATE

DESIGNED: MNG
DRAWN: BAW
CHECKED: JDM
CHECKED: JDM

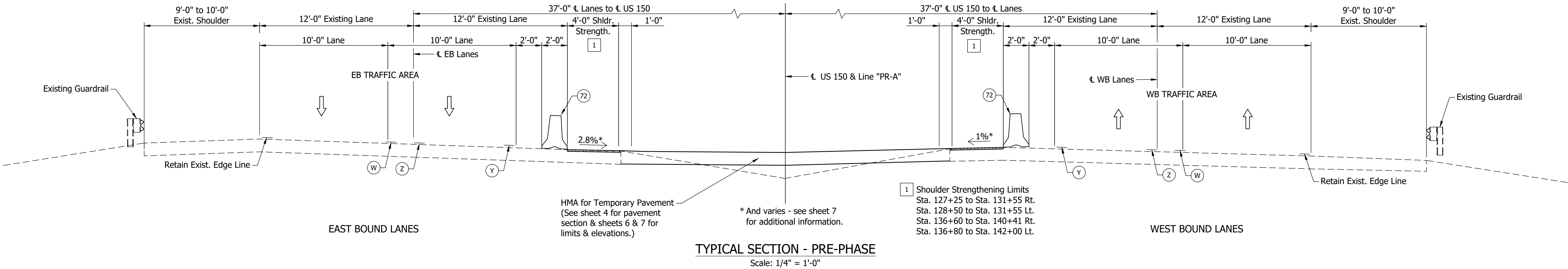
INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
ADVANCE SIGNING

HORIZONTAL SCALE		BRIDGE FILE	
1" = 200'		150-22-05230 CEB & CWB	
VERTICAL SCALE		DESIGNATION	
N/A		2002072 & 2002073	
SURVEY BOOK		SHEETS	
N/A		4	of 68
CONTRACT		PROJECT	
R-45584		2002072	

CONSTRUCTION CLEAR ZONE WIDTH = 16'

CONSTRUCTION ZONE DESIGN SPEED = 50 MPH



MAINTENANCE OF TRAFFIC SUMMARY TABLE						
ITEM DESCRIPTION	UNIT	PHASE				PAY QTY
		PRE-	I	II	POST-	
Subgrade Treatment, Type IC	Sys	4040	0	0	0	4040
Compacted Aggregate No. 53	Cys	0	0	0	245	245
Milling, Asphalt, 1 1/2 In.	Sys	727	0	0	0	727
QC/QA-HMA, 3, 58H, Surface, 9.5 mm	Ton	60	0	0	0	60
Joint Adhesive, Surface	Lft	1636	0	0	0	1636
Liquid Asphalt Sealant	Lft	1636	0	0	0	1636
HMA for Temporary Pavement, C	Ton	2222	0	0	0	2222
Asphalt for Tack Coat	Ton	5	0	0	0	5
Temporary Bridge and Approaches	LS	-	-	-	-	1
Pipe, Type 2, Circular, Diameter 12 In.	Lft	618	0	0	0	618
Pipe, Slotted Drain, Diameter 12 In., 0.064 In. Thickness	Lft	255	0	0	0	255
Pipe, Slotted Drain, Diameter 15 In., 0.064 In. Thickness	Lft	221	0	0	0	221
Pipe End Section, Diameter 12 In.	Each	1	0	0	0	1
Casting, Inlet, Adjust To Grade	Each	0	0	0	2	2
Casting, Type 2, Furnish And Adjust To Grade	Each	1	0	0	0	1
Structure, Inlet, Reconstructed	Lft	1	0	0	1	2
Inlet, Type A2	Each	5	0	0	0	5
Inlet, Type F2	Each	1	0	0	0	1
Road Closure Sign Assembly	Each	0	1	1	0	1
Temporary Pavement Marking, Removable, 6 In. (Black)	Lft	980	1469	894	0	3343
Temporary Pavement Marking, Removable, 6 In. (White)	Lft	3900	3060	3550	0	10510
Temporary Pavement Marking, Removable, 6 In. (Yellow)	Lft	4080	1475	2195	0	7750
Temporary Pavement Message Marking, Removable, Lane Indica	Lft	1	0	0	0	1
Temporary Pavement Message Marking, Removable, (ONLY)	Lft	1	0	0	0	1
Detour Route Marker Assembly	Each	5	5	5	5	5
Construction Sign, A	Each	31	25	25	19	31
Construction Sign, B	Each	4	4	4	4	4
Flashing Arrow Sign	Days	0	0	0	20	20
Maintaining Traffic	LS	-	-	-	-	1
Energy Absorbing Terminal, CZ, TL-3	Each	2	3	4	2	4
Barricade, III-A	Lft	0	60	50	0	60
Barricade, III-B	Lft	25	85	75	85	85
Temporary Traffic Barrier, Type 1	Lft	0	974	959	0	974
Temporary Traffic Barrier, Type 2	Lft	2885	480	679	2750	2885
Temporary Traffic Barrier, Anchored, Type 1	Lft	0	60	60	0	60
Temporary Traffic Barrier, Anchored, Type 2	Lft	0	60	60	0	60
Temporary Buzz Strips	Lft	960	0	0	0	960
Portable Changeable Message Sign	Each	6	6	6	6	6
Truck Mounted Attenuator	Days	0	0	0	20	20
Temporary Worksite Speed Limit Sign Assembly, Continuous	Each	8	8	8	8	8
Lane Separator	Lft	70	0	0	0	70

Note:
Existing guardrail is present along the outside shoulders throughout the project limits.

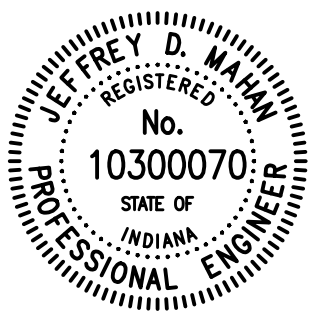
* FOR MAINTENANCE OF TRAFFIC LEGEND SEE SHEET 4.

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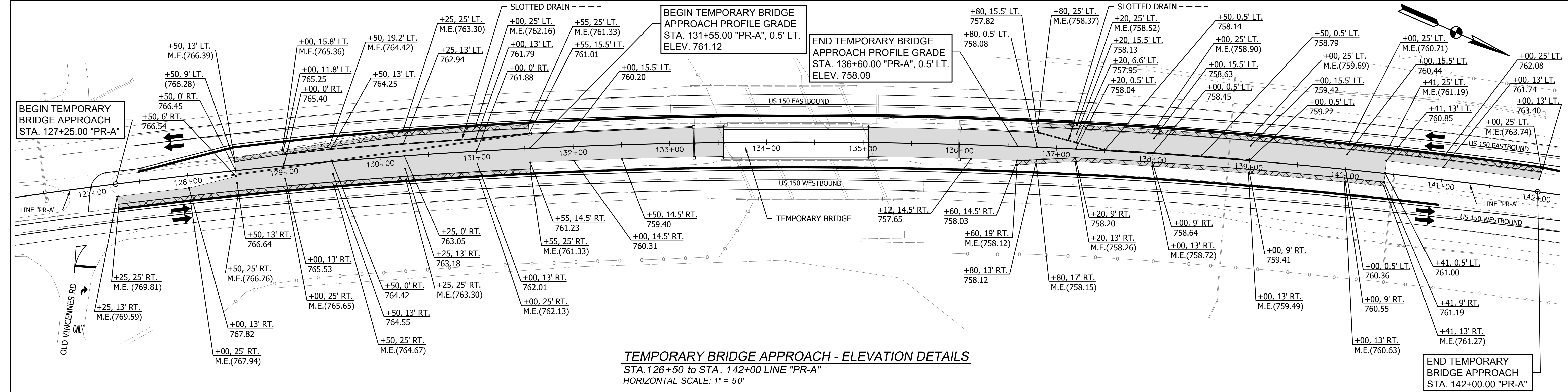
RECOMMENDED FOR APPROVAL *[Signature]* 11/01/24
DESIGN ENGINEER DATE

DESIGNED: MNG DRAWN: BAW
CHECKED: JDM CHECKED: JDM

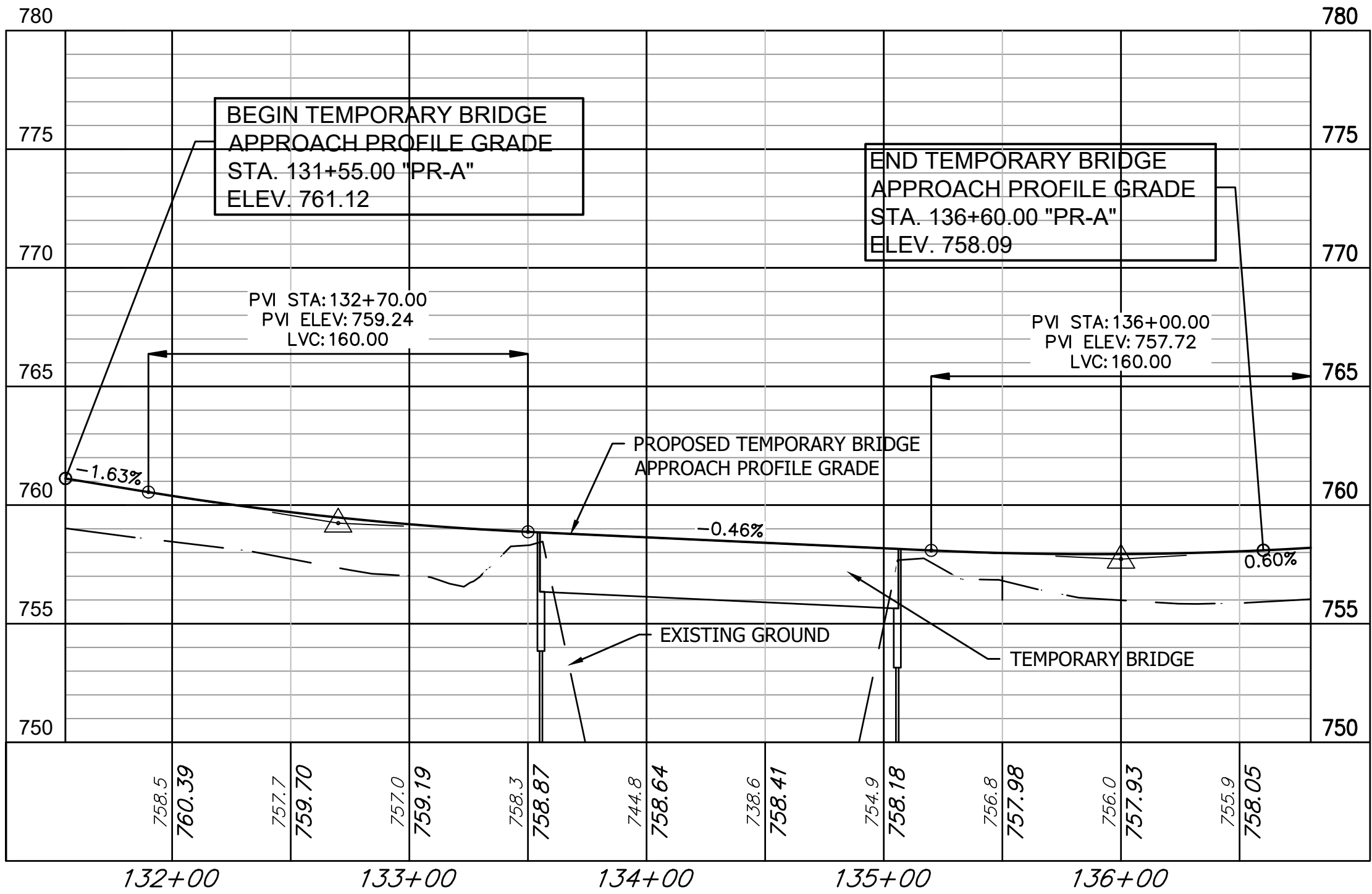
INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PRE-PHASE

HORIZONTAL SCALE	BRIDGE FILE	
AS SHOWN	150-22-05230 CEB & CWB	
VERTICAL SCALE	DESIGNATION	
N/A	2002072 & 2002073	
SURVEY BOOK	SHEETS	
N/A	5	of 68
CONTRACT	PROJECT	
R-45584	2002072	



TEMPORARY BRIDGE APPROACH - ELEVATION DETAILS
STA. 126+50 to STA. 142+00 LINE "PR-A"
HORIZONTAL SCALE: 1" = 50'



TEMPORARY BRIDGE APPROACH - PROFILE GRADE
STA. 131+50 to STA. 136+60 LINE "PR-A"
HORIZONTAL SCALE: 1" = 50'
VERTICAL SCALE: 1" = 5'

TEMPORARY BRIDGE DATA	
No. Spans	1
Minimum Clear Span Length	147'-3"
Minimum Clear Roadway Width	24'-0"
Minimum Low Structure Elevation	753.80

Note:

M.E. Indicates to match elevation of existing pavement at that location. Elevation shown in parentheses is the approximate existing elevation.

For Soil Boring information, see sheet 19.

CONSTRUCTION CLEAR ZONE = 16 FT

CONSTRUCTION ZONE DESIGN SPEED = 50 MPH

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* FOR MAINTENANCE OF TRAFFIC LEGEND SEE SHEET 4.
* FOR MAINTENANCE OF TRAFFIC QUANTITY SUMMARY, SEE SHEET 5.

ALIGN

1285 S. Jackson Street, Suite B
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Indianapolis, IN 46241

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JEFFREY D. MAHONEY
REGISTERED
No.
10300070
STATE OF
INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED
FOR APPROVAL
DESIGN ENGINEER
09/16/24
DATE

DESIGNED: MNG
CHECKED: JDM

DRAWN: BAW
CHECKED: JDM

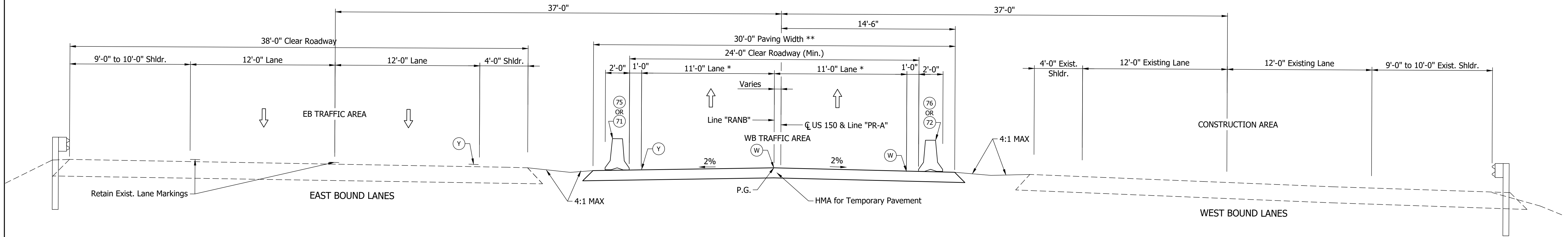
INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
TEMPORARY APPROACH ELEVATIONS

HORIZONTAL SCALE		BRIDGE FILE	
1" = 50'		150-22-05230 CEB & CWB	
VERTICAL SCALE		DESIGNATION	
N/A		2002072 & 2002073	
SURVEY BOOK		SHEETS	
N/A		7	of 68
CONTRACT		PROJECT	
R-45584		2002072	

CONSTRUCTION CLEAR ZONE WIDTH = 16'

CONSTRUCTION ZONE DESIGN SPEED = 50 MPH



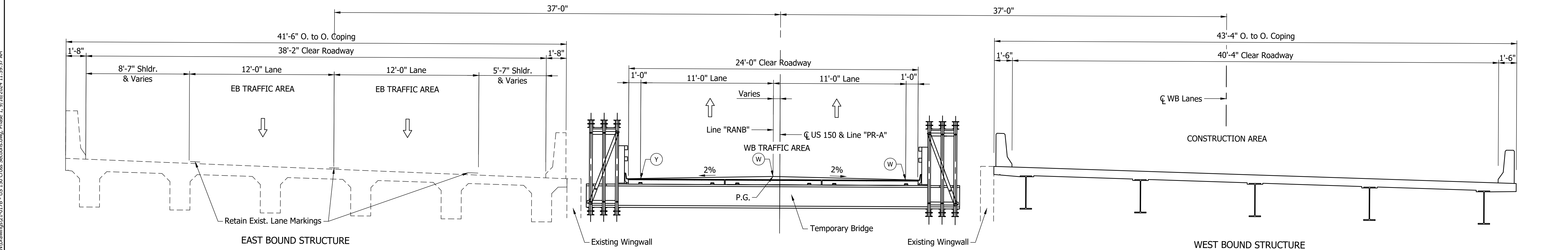
* Lane & Shoulder widths vary as follows (all stations from Line "RANB"):
Lane width equals 12' from Sta. 800+00 to Sta. 805+40
Lane width varies from 12' at Sta. 805+40 to 11' at Sta. 805+90
Lane width equals 11' from Sta. 805+90 to Sta. 809+10
Lane width varies from 11' at Sta. 809+10 to 12' at Sta. 809+60
Lane width equals 12' from Sta. 809+60 to Sta. 815+30

TYPICAL SECTION - PHASE I

Scale: 1/4" = 1'-0"

Sta. 131+55.00 to Sta. 133+55.50 "PR-A"
Sta. 135+05.72 to Sta. 136+80.00 "PR-A"

** Shoulder widths equal 4' (min.) from Sta. 800+00 to Sta. 804+30
Shoulder widths vary from 4' at Sta. 804+30 to 1' at Sta. 804+75
Shoulder widths equal 1' from Sta. 804+75 to Sta. 810+41
Left shoulder width varies from 1' at Sta. 810+41 to 4' at Sta. 811+46
Right shoulder width equals 4' (min.) from Sta. 810+41 to Sta. 815+30
Left shoulder width equals 4' (min.) from Sta. 811+46 to Sta. 815+30



TYPICAL SECTION - PHASE I

Scale: 1/4" = 1'-0"

Sta. 133+55.50 to Sta. 135+05.72 "PR-A"

See Sheet No. 7 for elevations and profile grade.

* FOR MAINTENANCE OF TRAFFIC LEGEND SEE SHEET 4.
* FOR MAINTENANCE OF TRAFFIC QUANTITY SUMMARY, SEE SHEET 5.

ALIGN

1285 S. Jackson Street, Suite B
Greencastle, IN 46135

2401 Directors Row, Suite D
Indianapolis, IN 46241

765.653.6710
ALIGNCEC.COM



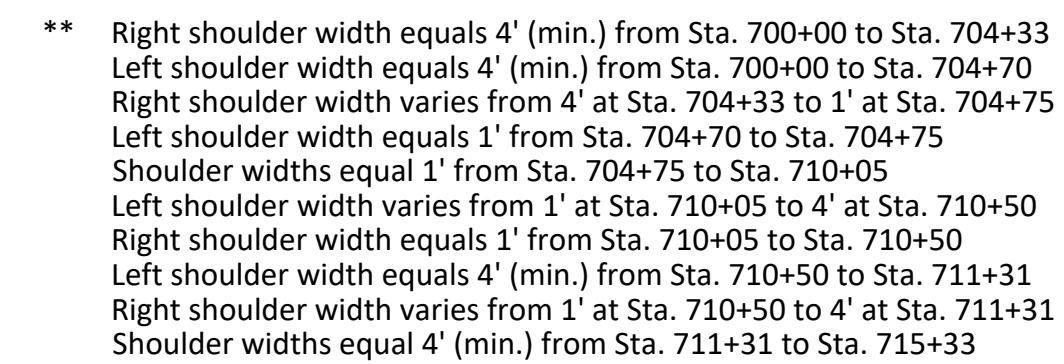
RECOMMENDED FOR APPROVAL	<i>[Signature]</i>	DESIGN ENGINEER	09/16/24
DESIGNED:	MNG	DRAWN:	BAW
CHECKED:	JDM	CHECKED:	JDM

INDIANA
DEPARTMENT OF TRANSPORTATION

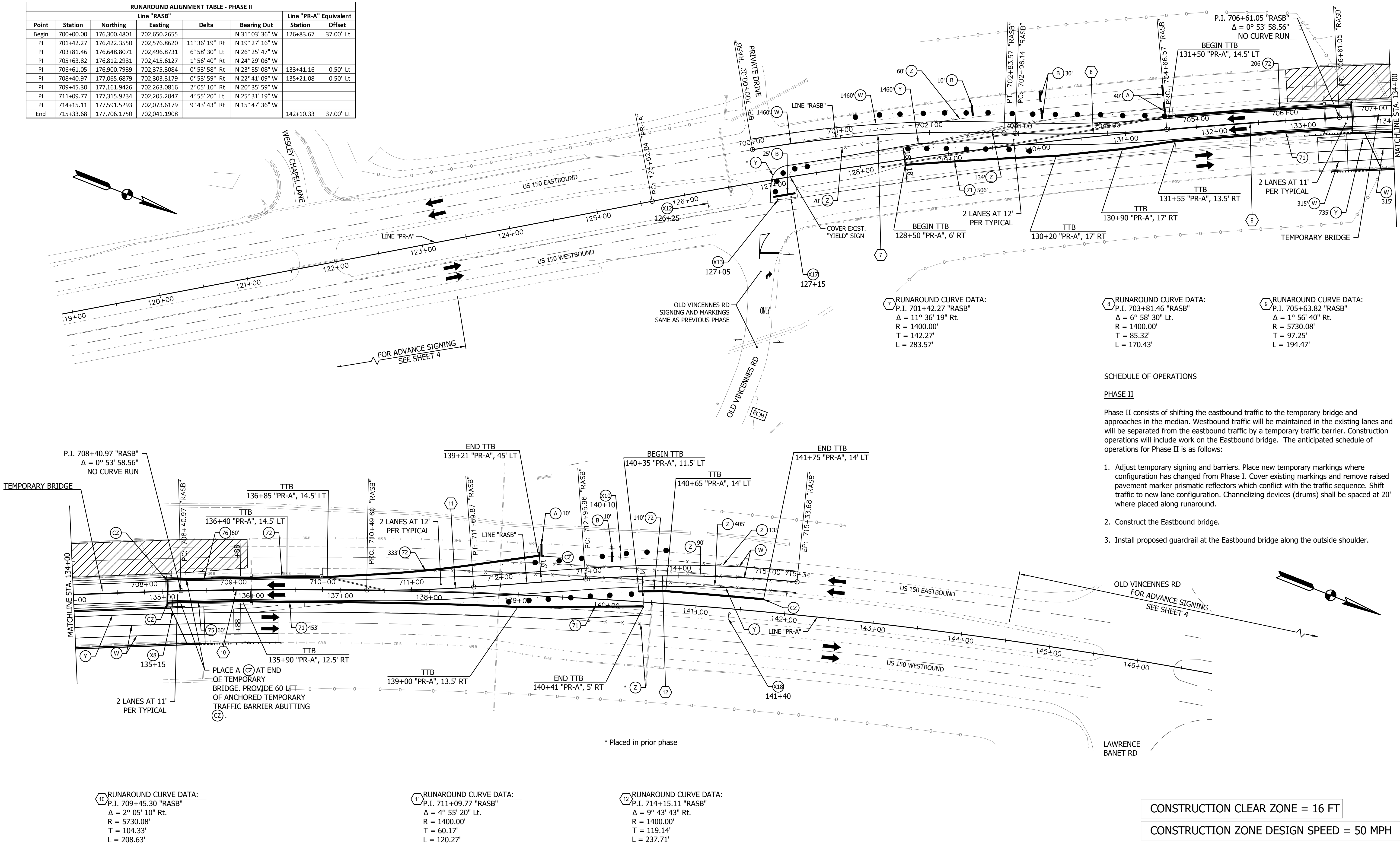
MAINTENANCE OF TRAFFIC
PHASE I

HORIZONTAL SCALE	BRIDGE FILE	
AS SHOWN	150-22-05230 CEB & CWB	
VERTICAL SCALE	DESIGNATION	
N/A	2002072 & 2002073	
SURVEY BOOK	SHEETS	
N/A	8	of 68
CONTRACT	PROJECT	
R-45584	2002072	

CONSTRUCTION ZONE DESIGN SPEED = 50 MPH



RUNAROUND ALIGNMENT TABLE - PHASE II								
Line "RASB"					Line "PR-A" Equivalent			
Point	Station	Northing	Easting	Delta	Bearing Out	Station	Offset	
Begin	700+00.00	176,300.4801	702,650.2655			126+83.67	37.00' Lt	
PI	701+42.27	176,422.3550	702,576.8620	11° 36' 19" Rt	N 19° 27' 16" W			
PI	703+81.46	176,648.8071	702,496.8731	6° 58' 30" Lt	N 26° 25' 47" W			
PI	705+63.82	176,812.2931	702,415.6127	1° 56' 40" Rt	N 24° 29' 06" W			
PI	706+61.05	176,900.7939	702,375.3084	0° 53' 58" Rt	N 23° 35' 08" W	133+41.16	0.50' Lt	
PI	708+40.97	177,065.6879	702,303.3179	0° 53' 59" Rt	N 22° 41' 09" W	135+21.08	0.50' Lt	
PI	709+45.30	177,161.9426	702,263.0816	2° 05' 10" Rt	N 20° 35' 59" W			
PI	711+09.77	177,315.9234	702,205.2047	4° 55' 20" Lt	N 25° 31' 19" W			
PI	714+15.11	177,591.5293	702,073.6179	9° 43' 43" Rt	N 15° 47' 36" W			
End	715+33.68	177,706.1750	702,041.1908			142+10.33	37.00' Lt	



SCHEDULE OF OPERATIONS

PHASE II

Phase II consists of shifting the eastbound traffic to the temporary bridge and approaches in the median. Westbound traffic will be maintained in the existing lanes and will be separated from the eastbound traffic by a temporary traffic barrier. Construction operations will include work on the Eastbound bridge. The anticipated schedule of operations for Phase II is as follows:

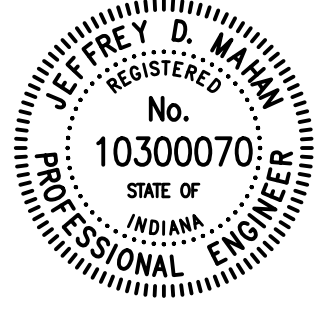
1. Adjust temporary signing and barriers. Place new temporary markings where configuration has changed from Phase I. Cover existing markings and remove raised pavement marker prismatic reflectors which conflict with the traffic sequence. Shift traffic to new lane configuration. Channelizing devices (drums) shall be spaced at 20' where placed along runaround.
2. Construct the Eastbound bridge.
3. Install proposed guardrail at the Eastbound bridge along the outside shoulder.

* FOR MAINTENANCE OF TRAFFIC LEGEND SEE SHEET 4.
* FOR MAINTENANCE OF TRAFFIC QUANTITY SUMMARY, SEE SHEET 5.

ALIGN

1285 S. Jackson Street, Suite B
Greencastle, IN 46135
765.653.6710
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2401 Directors Row, Suite D
Indianapolis, IN 46241



RECOMMENDED FOR APPROVAL
DESIGN ENGINEER
09/16/24
DATE

DESIGNED: MNG
DRAWN: BAW
CHECKED: JDM
CHECKED: JDM

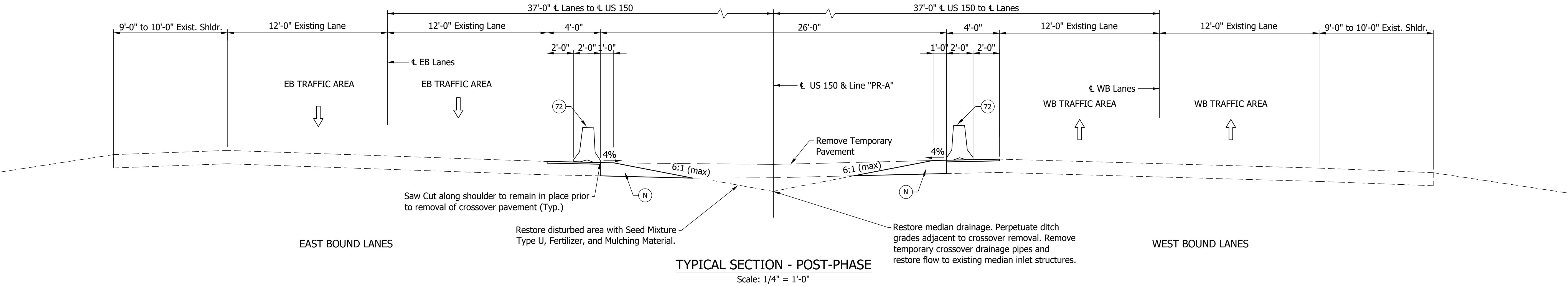
INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
PHASE II

HORIZONTAL SCALE	BRIDGE FILE	
1" = 50'	150-22-05230 CEB & CWB	
VERTICAL SCALE	DESIGNATION	
N/A	2002072 & 2002073	
SURVEY BOOK	SHEETS	
N/A	11	of 68
CONTRACT	PROJECT	
R-45584	2002072	

CONSTRUCTION CLEAR ZONE WIDTH = 16'

CONSTRUCTION ZONE DESIGN SPEED = 50 MPH



* FOR MAINTENANCE OF TRAFFIC LEGEND SEE SHEET 4.
* FOR MAINTENANCE OF TRAFFIC QUANTITY SUMMARY, SEE SHEET 5.

ALIGN

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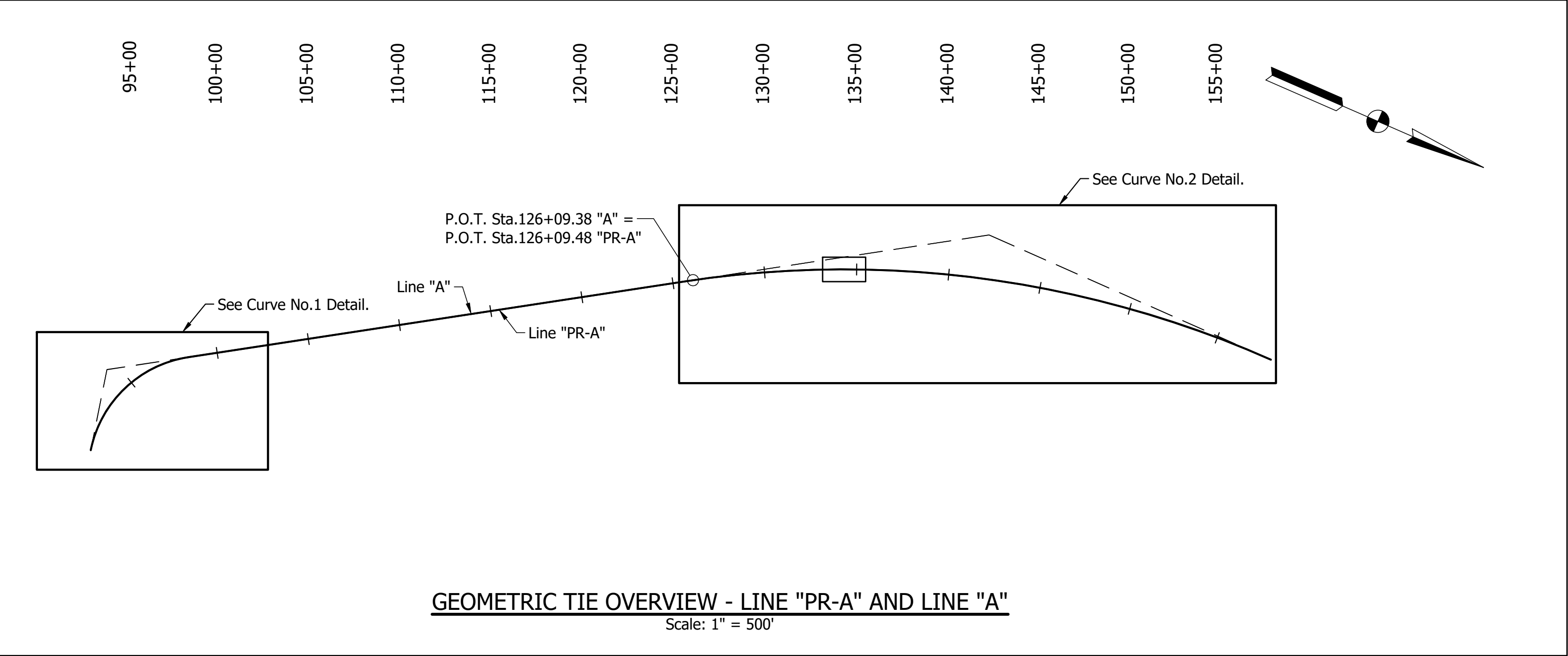
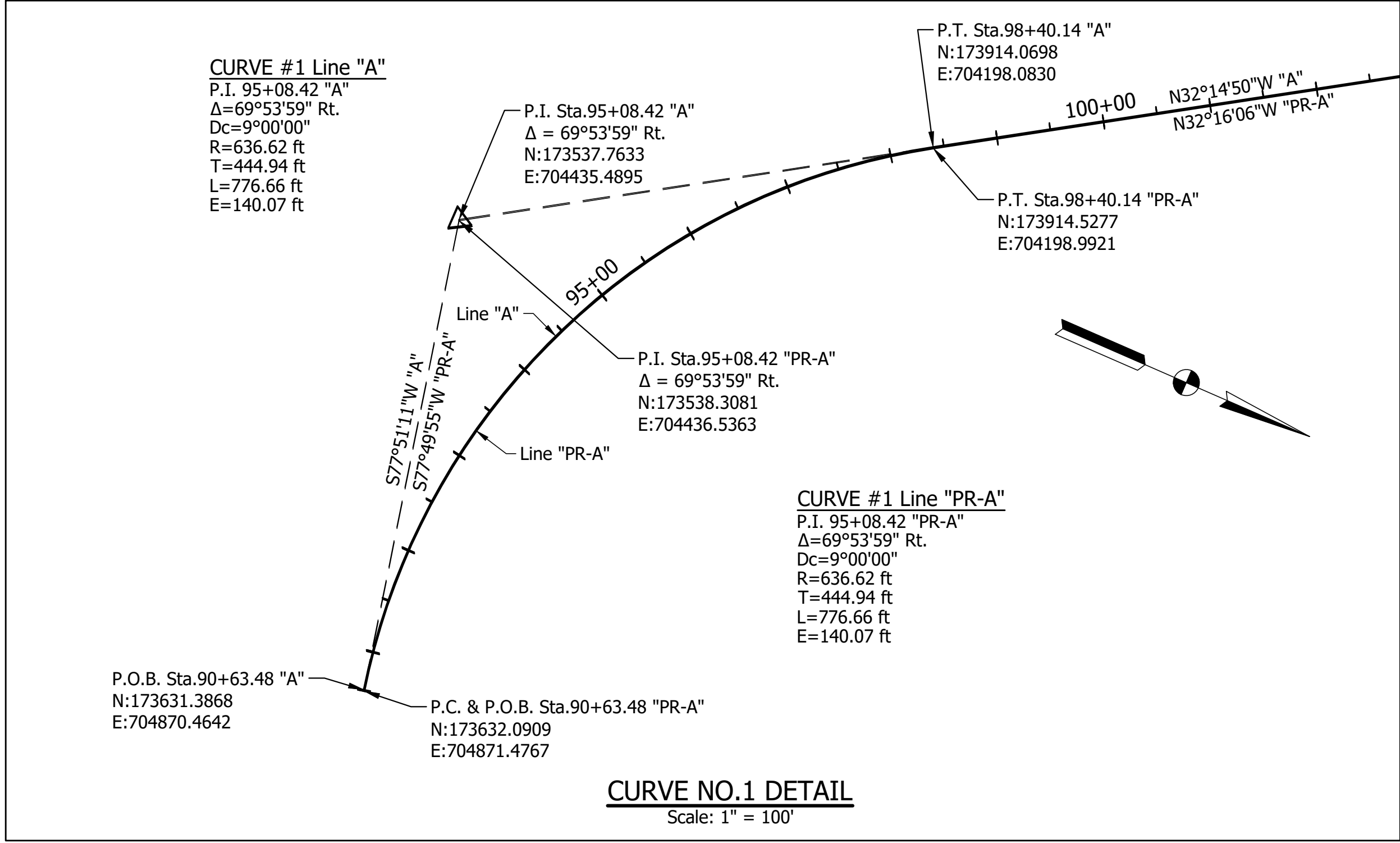
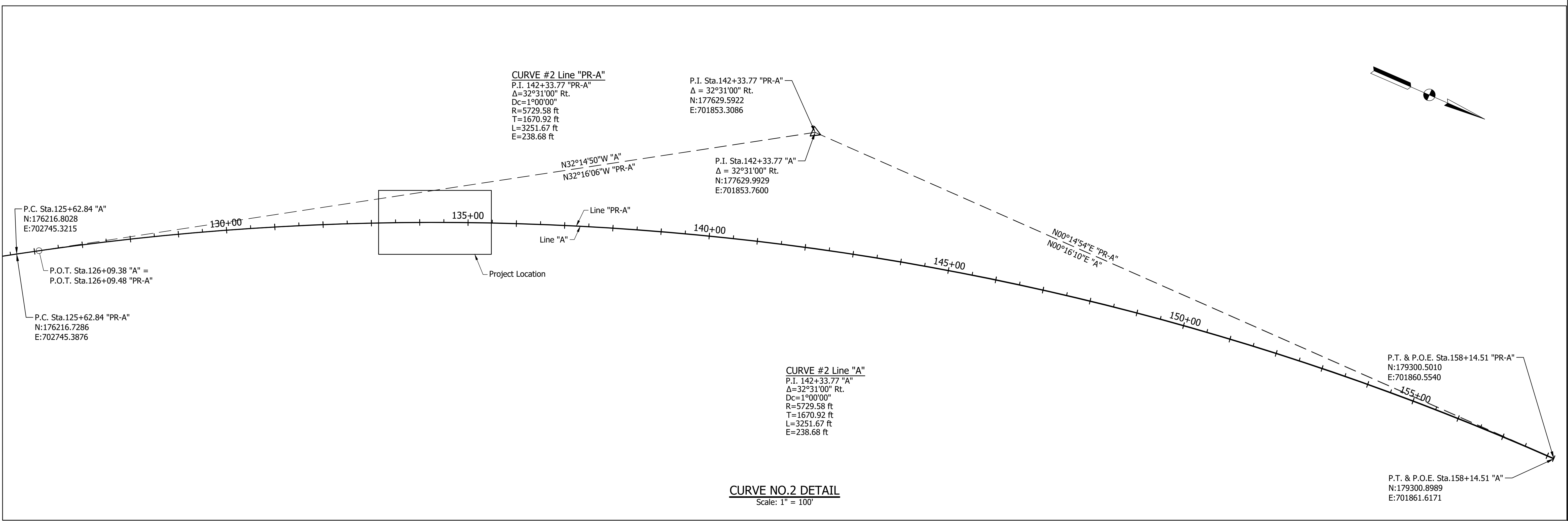
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	DESIGN ENGINEER	DATE
DESIGNED: MNG	DRAWN: BAW	
CHECKED: JDM	CHECKED: JDM	

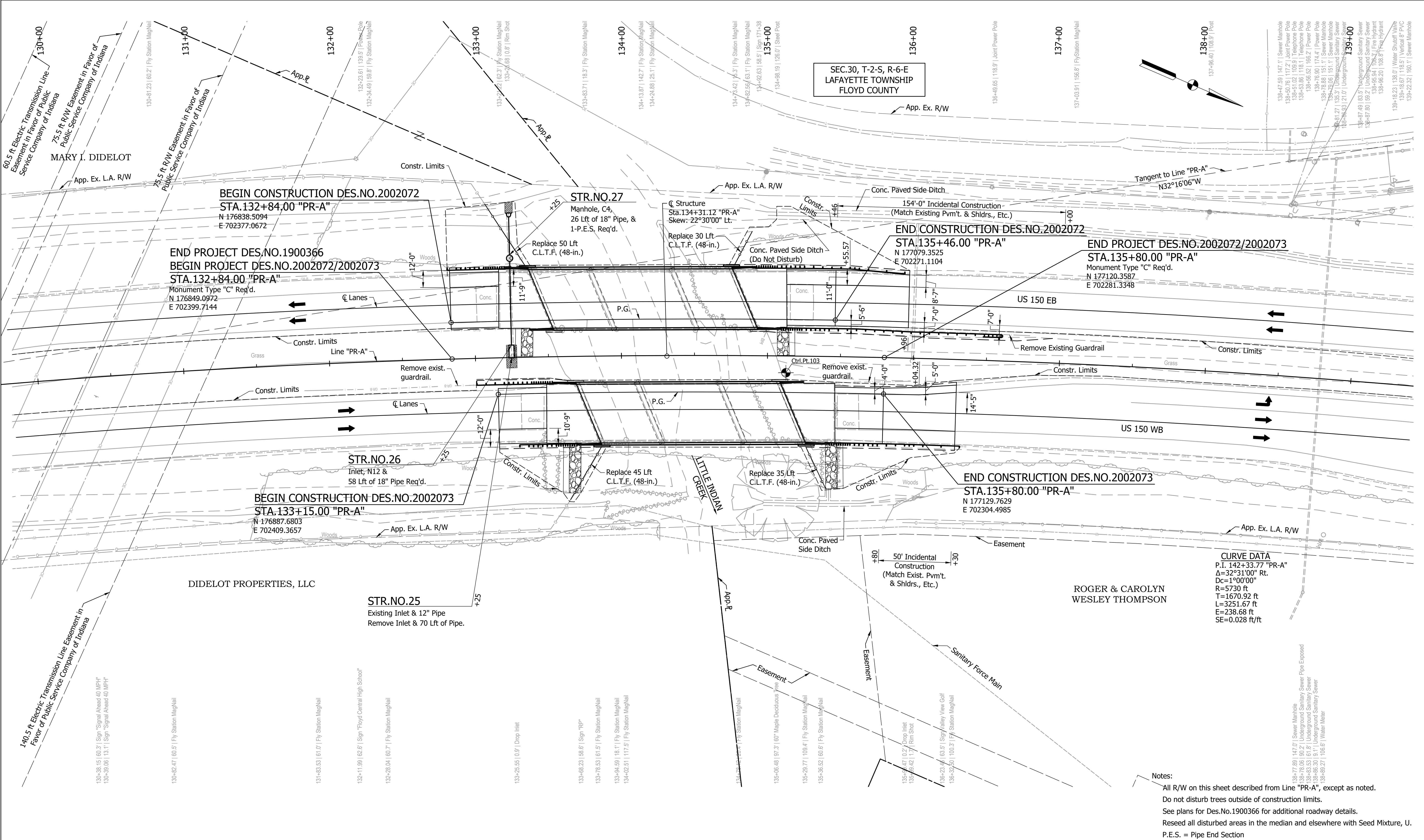
INDIANA
DEPARTMENT OF TRANSPORTATION

MAINTENANCE OF TRAFFIC
POST - PHASE

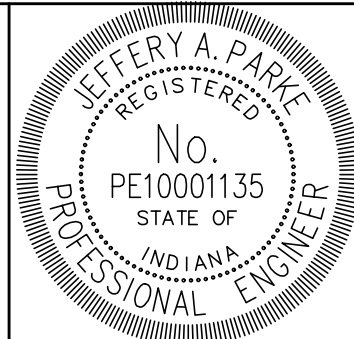
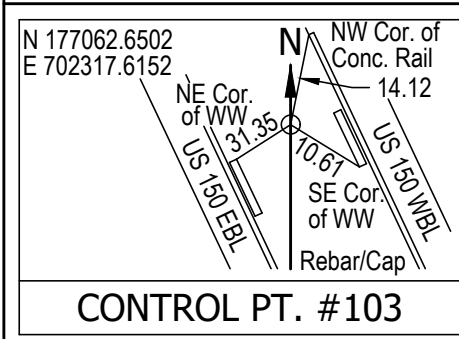
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AS SHOWN	150-22-05230 CEB & CWB		
VERTICAL SCALE	DESIGNATION		
N/A	2002072 & 2002073		
SURVEY BOOK	SHEETS		
N/A	12	of	68
CONTRACT	PROJECT		
R-45584	2002072		

V:\Shared\Greencastle\Shared\Projects\2021\21-017 BUS 150 Little Indian Ck-Des 202072-8\UNDrawings\21-017B - US 150 Cross Sections.dwg, Post-Phase, 9/16/2024 12:01:01 PM



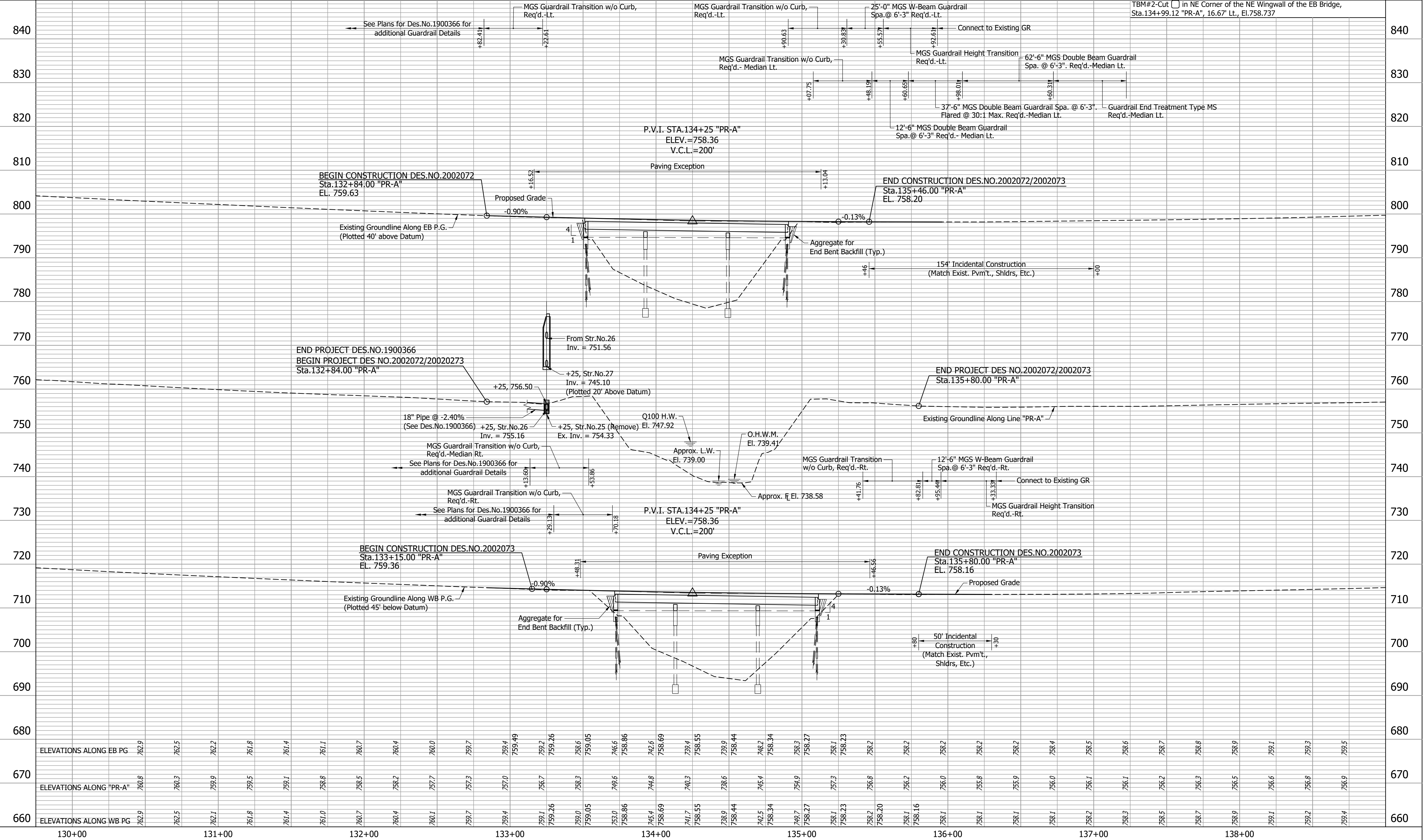


Notes:
All R/W on this sheet described from Line "PR-A", except as noted.
Do not disturb trees outside of construction limits.
See plans for Des.No.1900366 for additional roadway details.
Reseed all disturbed areas in the median and elsewhere with Seed Mixture, U.
P.E.S. = Pipe End Section

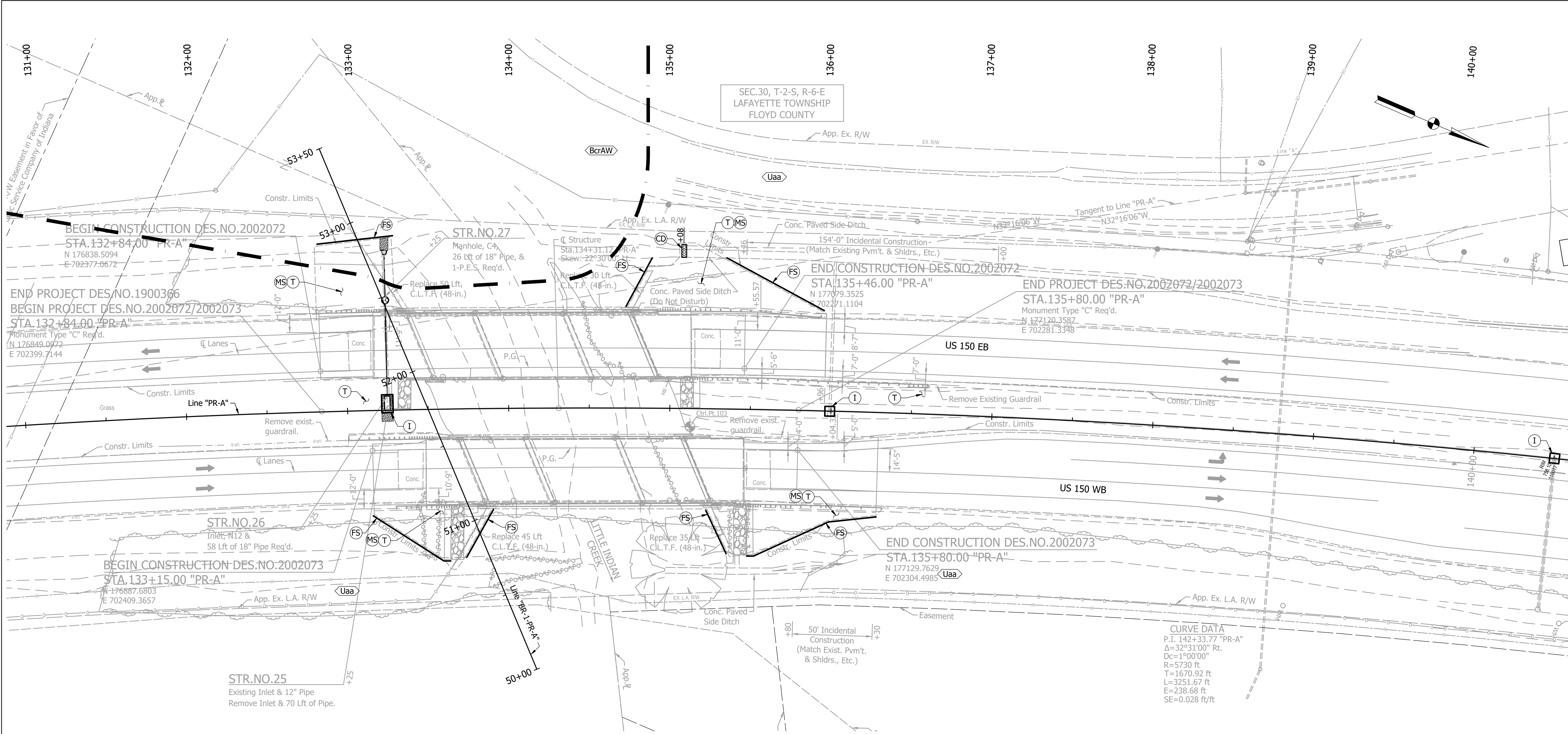


RECOMMENDED FOR APPROVAL	<i>Jeffery A. Paik</i>	DESIGN ENGINEER	9/16/2024	DATE
DESIGNED: AE	DRAWN: SS			
CHECKED: JAP	CHECKED: JAP			

INDIANA DEPARTMENT OF TRANSPORTATION		BRIDGE FILE 150-22-05230 CEB & CWB	
PLAN LINE "PR-A"		DESIGNATION 2002072 & 2002073	
DRAWING NO.		SHEETS 15 of 68	
CONTRACT R-45584		PROJECT 1900162	



	RECOMMENDED FOR APPROVAL	<i>Jeffrey A. Paule</i> DESIGN ENGINEER	9/16/2024 DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1" = 30'	BRIDGE FILE 150-22-05230 CEB & CWB
	DESIGNED: AE	DRAWN: SS			VERTICAL SCALE 1" = 10'	DESIGNATION 2002072 & 2002073
	CHECKED: JAP	CHECKED: JAP			DRAWING NO.	SHEETS 16 of 68
					CONTRACT R-45584	PROJECT 1900162



EROSION CONTROL PLAN
Scale: 1" = 30'

SOIL CLASSIFICATIONS TABLE	
Map Unit Symbol	Map Unit Name
BcrAW	Bean blossom silt loam, 0 to 3 percent slopes, occasionally flooded, very brief duration
Uaa	Udorthents, cut and filled

LEGEND

- ⊙ Temporary Check Dam
- ⊙ Temporary Filter Sock
- ⊙ Temporary Inlet Protection
- ⊙ Manufactured Surface Protection Product
- ⊙ Temporary Seeding
- ⊙ Soil Classification Symbol. See Table this sheet.
- Soil Type Boundary

JEFFERY A. PARKER
REGISTERED
No. PE10001135
STATE OF INDIANA
PROFESSIONAL ENGINEER

RECOMMENDED FOR APPROVAL

Jeffery A. Parker
DESIGN ENGINEER

9/16/2024
DATE

DESIGNED: AE

DRAWN: NW

CHECKED: JAP

CHECKED: LLS

INDIANA
DEPARTMENT OF TRANSPORTATION

EROSION CONTROL PLAN
LINE "PR-A"

HORIZONTAL SCALE 1" = 30'	BRIDGE FILE 150-22-05230 CEB & CWB
VERTICAL SCALE 1" = 10'	DESIGNATION 2002072 & 2002073
DRAWING NO.	SHEETS
CONTRACT R-45584	17 of 68 PROJECT 1900162

I:\grooms | p:\210079-us150 repl superstructure\02bridge\04plans\210079 - erosion control.dwg | erosion control | 9/19/2024 10:52:33 AM ||

BORING NO. TB-2

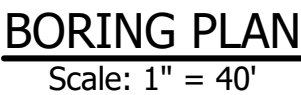
TEST BORING RECORD						BORING NO.	TB-2						
CLIENT : Beam, Longest and Neff, LLC							SHEET	1 OF 1					
PROJECT : Bridge Superstructure Replacement							DATE STARTED	06-26-23					
ROUTE NO. : US 150 COUNTY : Floyd							DATE COMPLETED	06-26-23					
LOCATION : US 150 over Little Indian Creek							CTL PROJECT NO.	22050023IND					
DES NO. : 2002072 & 2002073 PROJECT NO. : 1900162							Hammer	Automatic					
Boring Elevation : 758.2 feet Boring Depth : 30.0 feet							Rig Type	CME 550 ATV					
Latitude : 38.311530 Station : 13S+25							Casing Diameter	3.25" ID					
Longitude : -85.896589 Offset : 0.0 feet Line : "PB-A"							Core Size	---					
							Driller/Inspector	ED/SAH					
							Temperature	85° F					
							Weather	Sunny					
GROUNDWATER:							Encountered at 18.0 feet At completion 16.0 feet 15.3 feet After 24 hours Caved in at 16.5 feet						
Station Elevation	Sample Depth	SOIL/MATERIAL DESCRIPTION	Station Depth	Sample Number	SPF per 6'	SPF per 12'	Recovery (%)	Moisture Content (%)	Total Unit Weight (pcf)	Unclassified Compression (ksf)	Afterberg Limits		
											LL	PL	PI
757.9		TOPSOIL (3")	0.3										
756.7		Brown, Moist, Loose, LOAM (Visual)	1.5	SS-1	4	9	100	16.0					
	2.5			5									
		Brown and Gray, Moist, Stiff to Medium Stiff, SILTY LOAM with Traces of Rock Fragments A-4, As Lab 4		SS-2	6	12	100	15.8					
				8									
	5.0			SS-3	4	7	100	19.0					
752.7			5.5		3								
					6								
	7.5			SS-4	4	8	100	21.8					
					4								
	10.0			SS-5	4	8	100	12.3					
					4								
	12.5	Brown to Gray, Moist, Medium Stiff, SILT A-4, As Lab 2		ST-1			63	15.3					
					4								
	15.0			SS-6	4	9	100	32.2					
					5								
	17.5												
740.2		(Well sand seam encountered at 18.0 feet)	18.0										
		Brown and Gray, Soft, Highly Weathered, SHALE with Sandstone (Visual)		SS-7	50/5*		28						
738.2	20.0		20.0										
737.5		Brown, Hard, Moderately Weathered, SANDSTONE (Visual)	20.7										
	22.5			RC-1 RQD= 68%			83						
	25.0												
	27.5	Gray, Hard, Slightly Weathered, SHALE (Visual)		RC-2 RQD= 98%			98						
728.2	30.0		30.0										
		Bottom of Boring at 30.0 feet											
		Boring backfilled in accordance with INDOT requirements.											
	32.5												
	35.0												
	37.5												
	40.0												
	42.5												
	45.0												

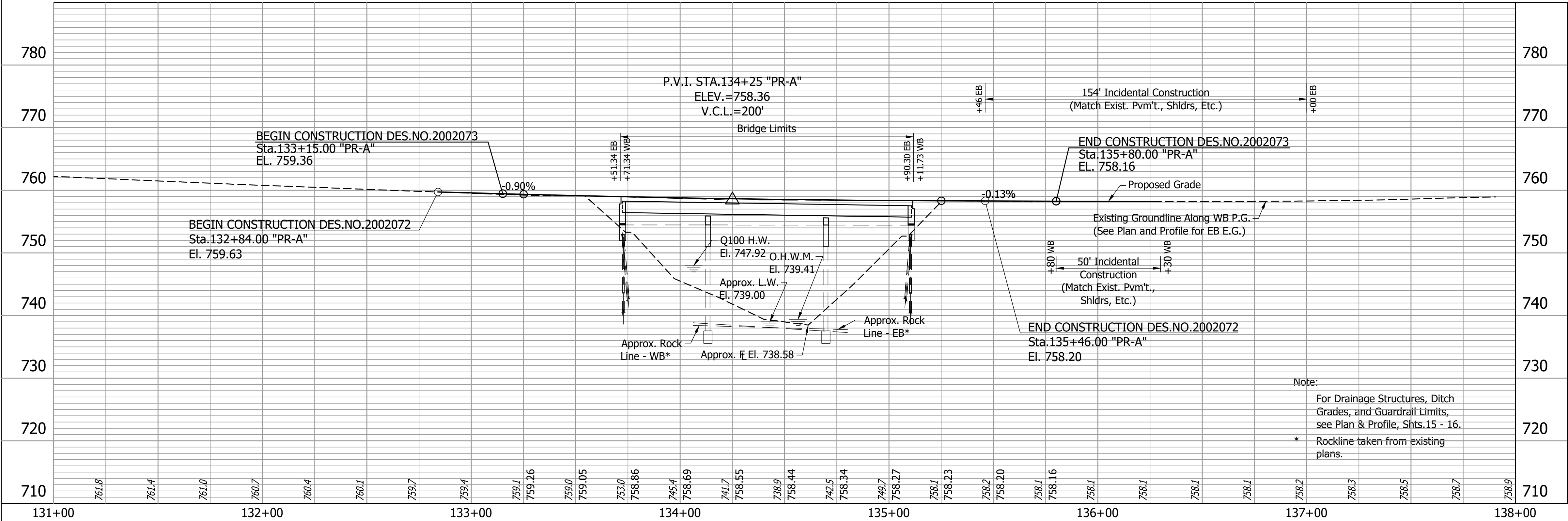
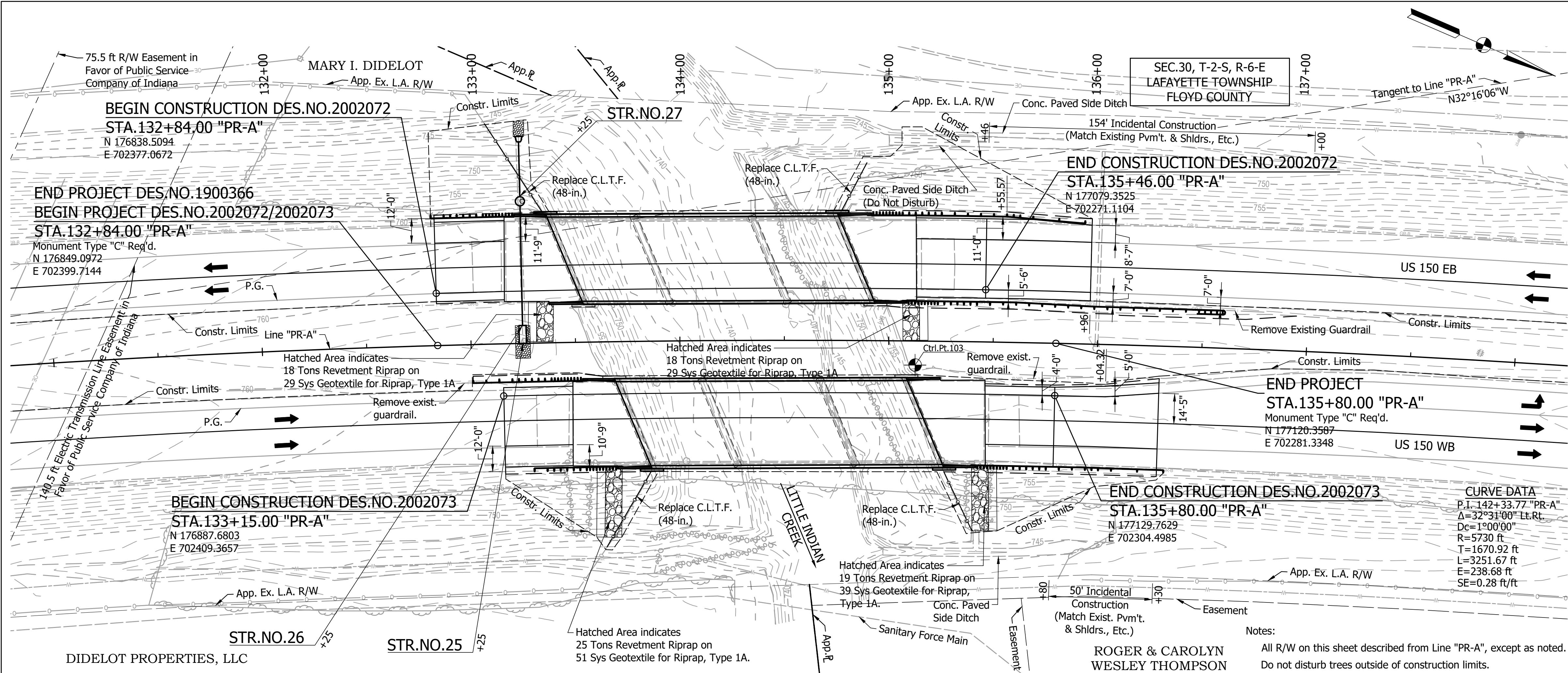
CTL Engineering, Inc.
Phone: 317-295-8650

BORING METHOD
 HSA – Hollow Stem Auger
 SFA – Solid Flight Auger
 RC – Rock Coring
 MD – Mud Drilling
 WD – Wash Drilling
 HA – Hand Auger

SAMPLING METHOD
 SS – Split Spoon Sample
 ST – Shelby Tube Sample
 CR – Rock Core Sample
 BS – Bag Sample
 AC – Auger Cuttings
 SBS – Subbase Sample

ABBREVIATIONS
 * – Hand Penetrometer
 LL – Liquid Limit
 PL – Plastic Limit
 PI – Plasticity Index
 DCP – Dynamic Cone Penetrometer Test





RECOMMENDED FOR APPROVAL

DESIGN ENGINEER

9/16/2024

DATE

DESIGNED: AE

DRAWN: SS

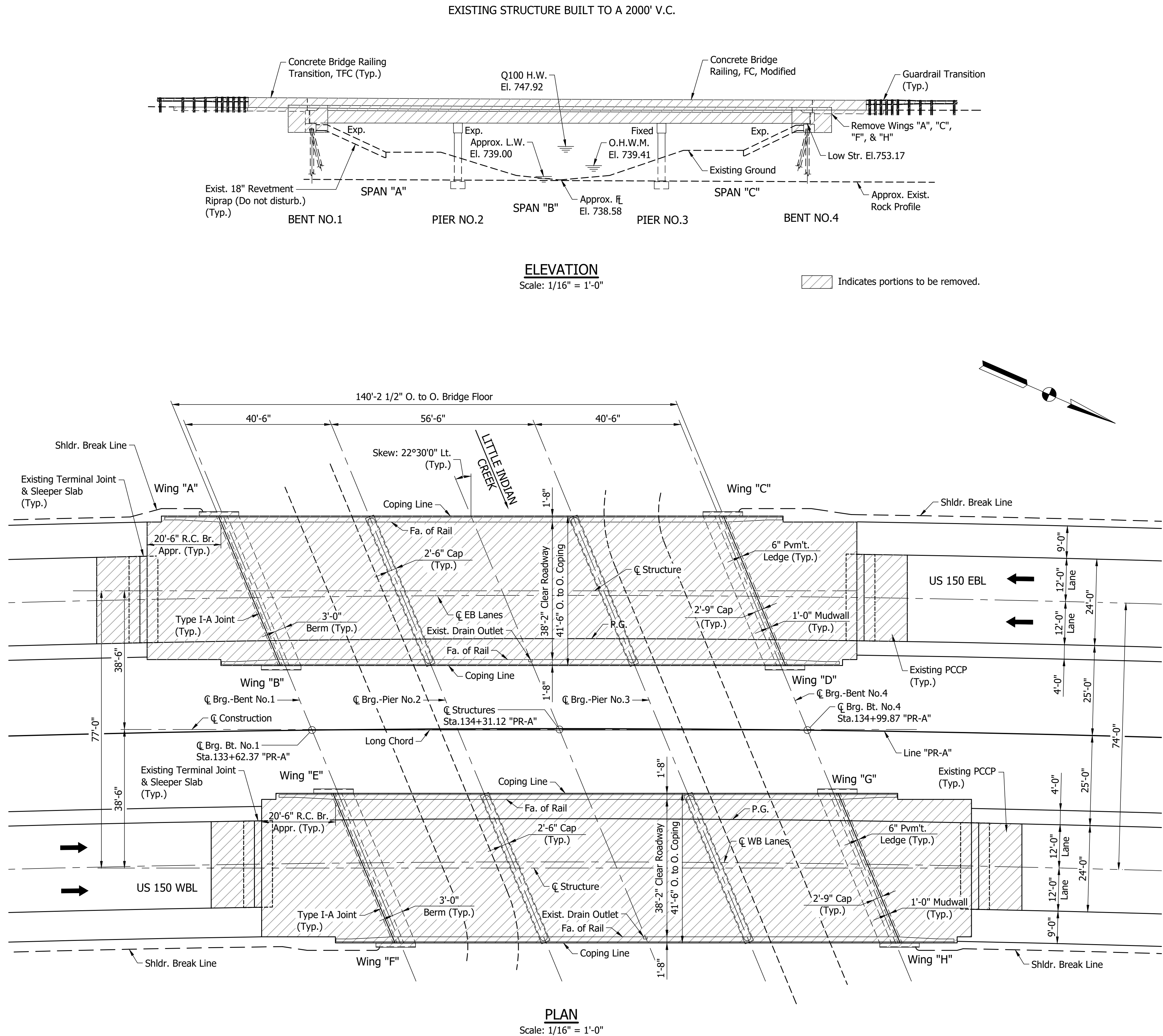
CHECKED: JAP

CHECKED: JAP

INDIANA DEPARTMENT OF TRANSPORTATION

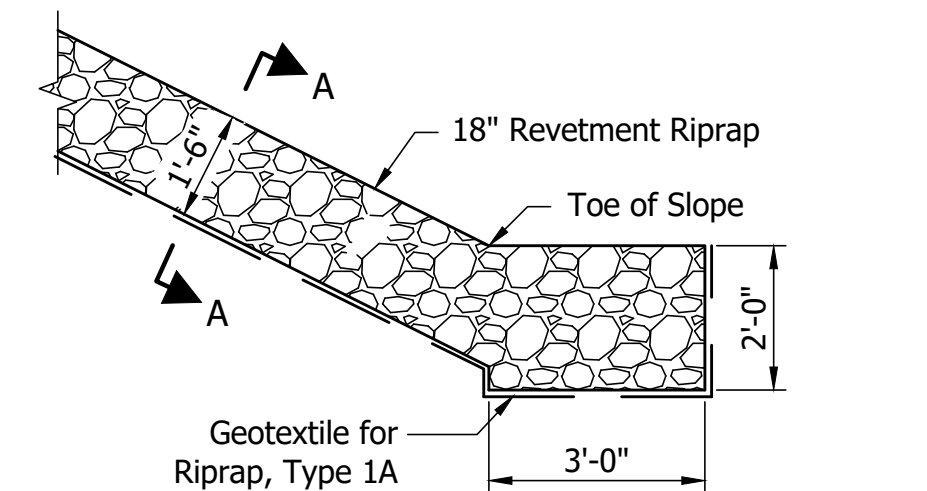
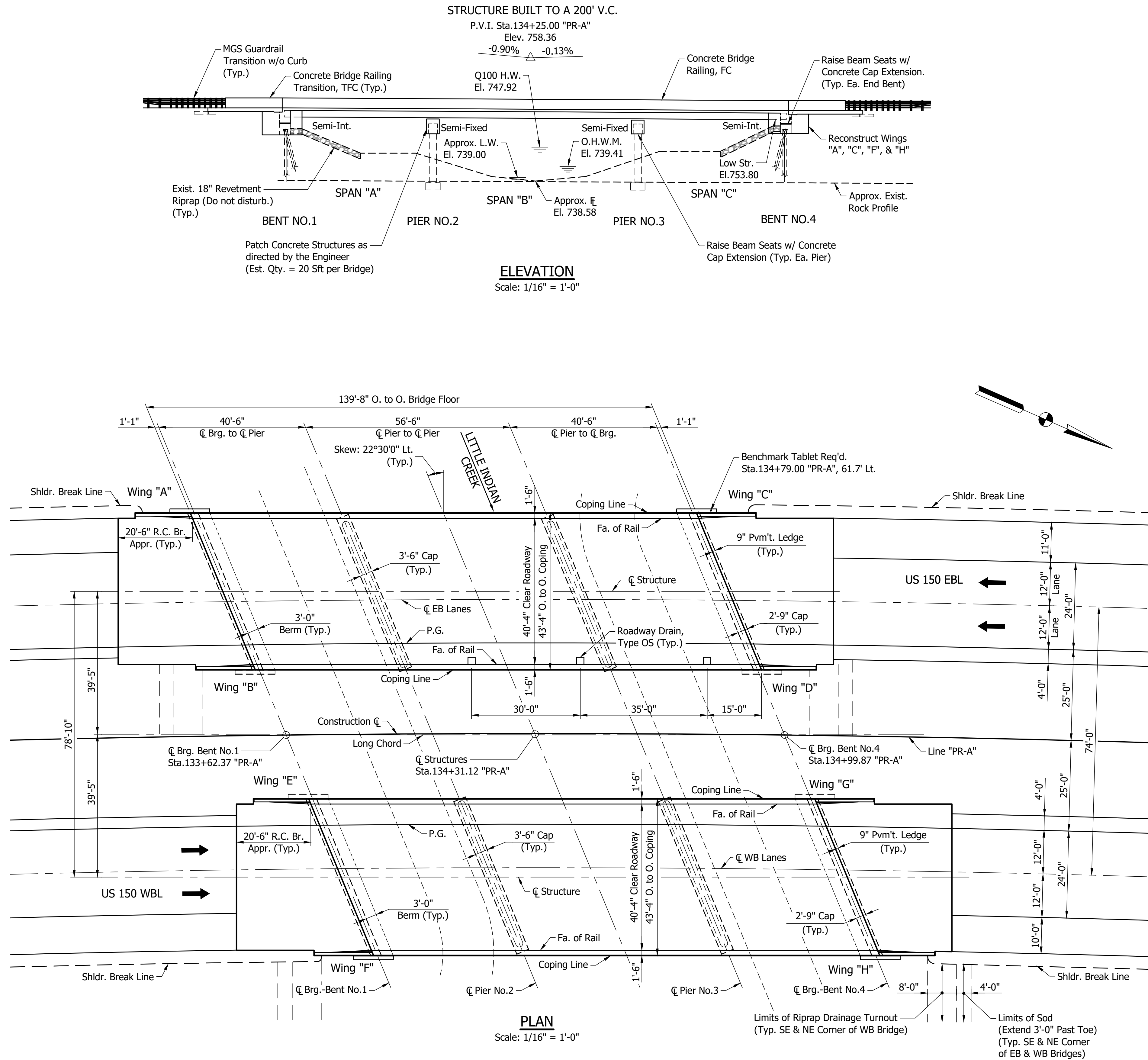
LAYOUT LINE "PR-A"

HORIZONTAL SCALE	BRIDGE FILE
1" = 30'	150-22-05230 CEB & CWB
VERTICAL SCALE	DESIGNATION
1" = 10'	2002072 & 2002073
DRAWING NO.	SHEETS
C1 of C38	20 of 68
CONTRACT	PROJECT
R-45584	1900162

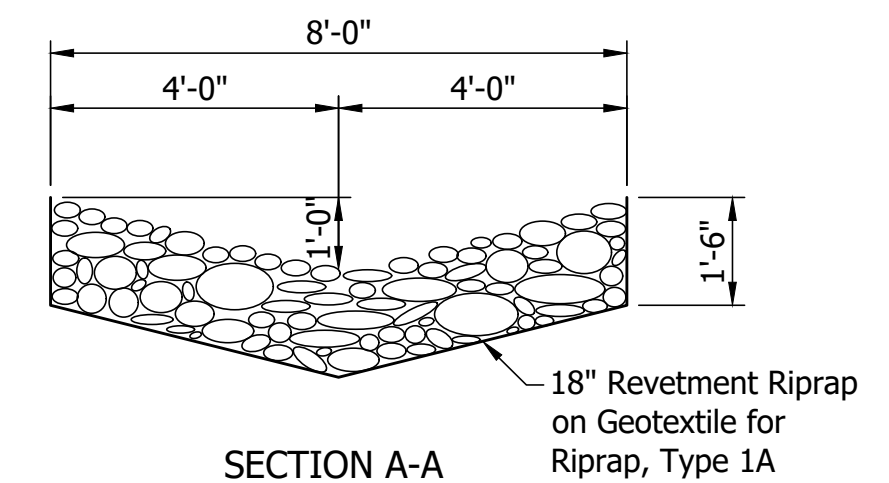


Notes:
For Typical Sections, General Notes & Design Data, see Dwg.C4.
For Proposed Plan & Elevation, see Dwg.C3.

TWIN CONTINUOUS REINFORCED CONCRETE GIRDER BRIDGES
3 SPANS: 40'-6", 56'-6" & 40'-6"
38'-2" CLEAR ROADWAYS SKEW: 22°30'00" LT.
US 150 OVER LITTLE INDIAN CREEK
FLOYD COUNTY



LONGITUDINAL SECTION

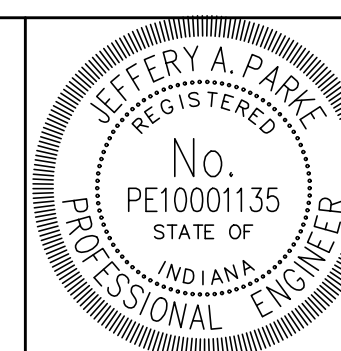


SECTION A-A

RIPRAP DRAINAGE TURNOUT DETAIL
Scale: 3/8"=1'-0"

Notes:
For Typical Sections, General Notes & Design Data, see Dwg.C4.

TWIN CONTINUOUS COMPOSITE PRESTRESSED CONCRETE
BOX BEAM BRIDGES
3 SPANS: 40'-6", 56'-6" & 40'-6"
40'-4" CLEAR ROADWAYS SKEW: 22°30'00" LT.
US 150 OVER LITTLE INDIAN CREEK
FLOYD COUNTY



RECOMMENDED
FOR APPROVAL

Jeffery A. Park
DESIGN ENGINEER

9/16/2024
DATE

DESIGNED: AE

DRAWN: NW

CHECKED: JAP

CHECKED: JAP

INDIANA
DEPARTMENT OF TRANSPORTATION

GENERAL PLAN
PROPOSED

HORIZONTAL SCALE

AS NOTED

VERTICAL SCALE

AS NOTED

DRAWING NO.

C3 of C38

CONTRACT

R-45584

BRIDGE FILE

150-22-05230 CEB & CWB

DESIGNATION

2002072 & 2002073

SHEETS

22 of 68

PROJECT

1900162

GENERAL NOTES

Reinforcing Steel covering shall be 2 1/2" in top and 1" minimum in the bottom of the floor slab, and 2" in all other parts, unless noted.

The concrete bridge railings, concrete railing transitions, all exposed surfaces of wings and end bents, and exposed top of pier caps to be sealed in accordance with Article 702.21 of the Specifications.
(Estimated Quantity = 5202 Sft)

Where new work is to be fitted to the old work, the Contractor shall check and verify all dimensions, elevations and conditions in the field and report any errors or discrepancies to the Engineer and assume responsibility for their correctness and the fit of the new construction to the existing structure.

Original and Rehabilitation Plans for existing structures are on file in the Research and Documents Section at the Indiana Department of Transportation, as Bridge File No.150-22-05230 EB & WB and are available upon request.

DESIGN DATA

LIVE LOAD
Bridge Deck and Superstructure designed for HL-93 loading, in accordance with the AASHTO LRFD Bridge Design Specifications, Ninth Edition, 2020.

Substructure originally designed for HS20-44 loading in accordance with 1961 AASHTO Standard Design Specifications and all Interims.

DEAD LOAD
Actual weight plus 35 psf (composite) for future wearing surface and 15 psf (non-composite) for permanent metal deck forms.

FLOOR SLAB
Designed for HL-93 Loading with a 1/2" sacrificial wearing surface.

DESIGN STRENGTHS
To be in accordance with AASHTO LRFD Bridge Design Specifications, Ninth Edition, 2020.

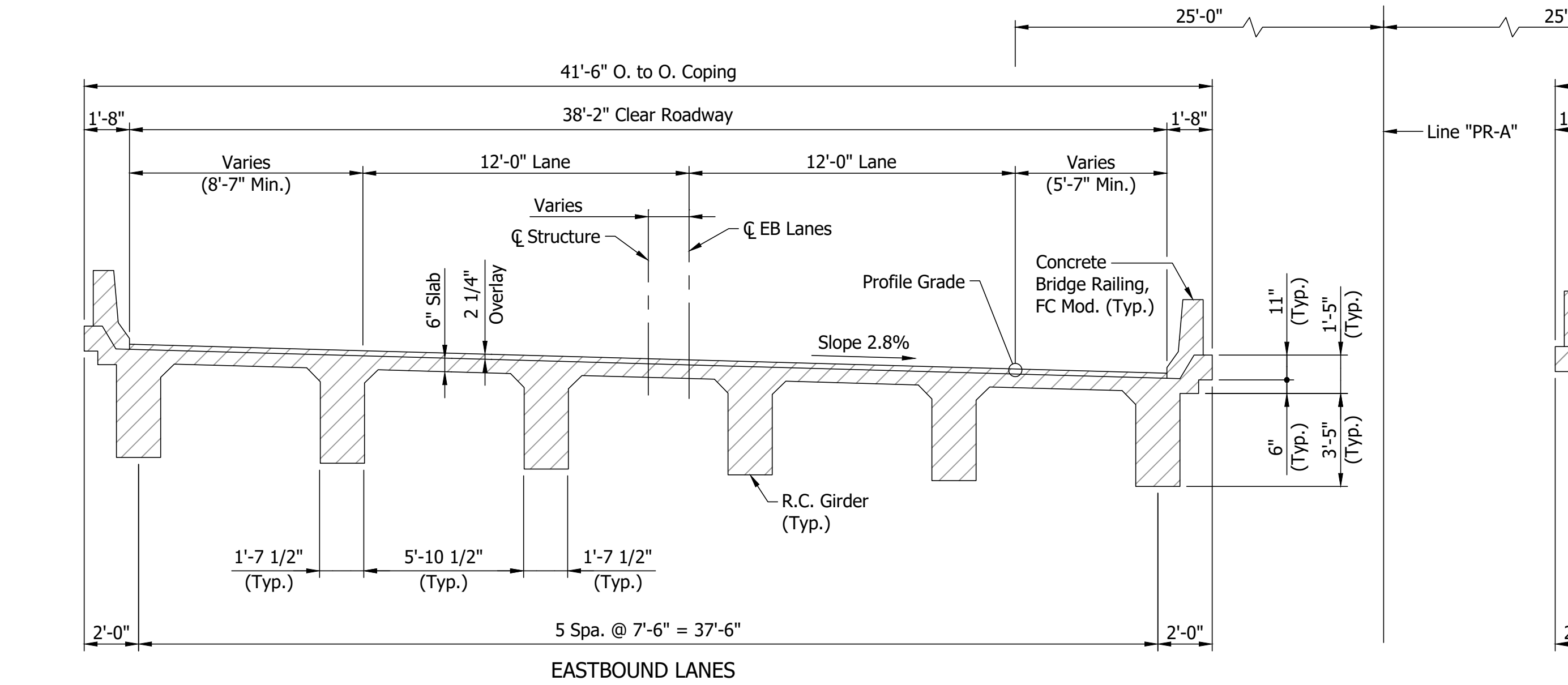
PRESTRESSED CONCRETE:
f'c=7,000 psi @ 28 days
Initial f'c =5,500 psi @ Release of Strands

PRESTRESSING STRANDS:
1/2"Ø, 7-Wire Special Lo-Lax Strands (As=0.167 in²)
Min. Tensile Strength=270,000 psi
Initial Pull=33,800 lbs. per strand

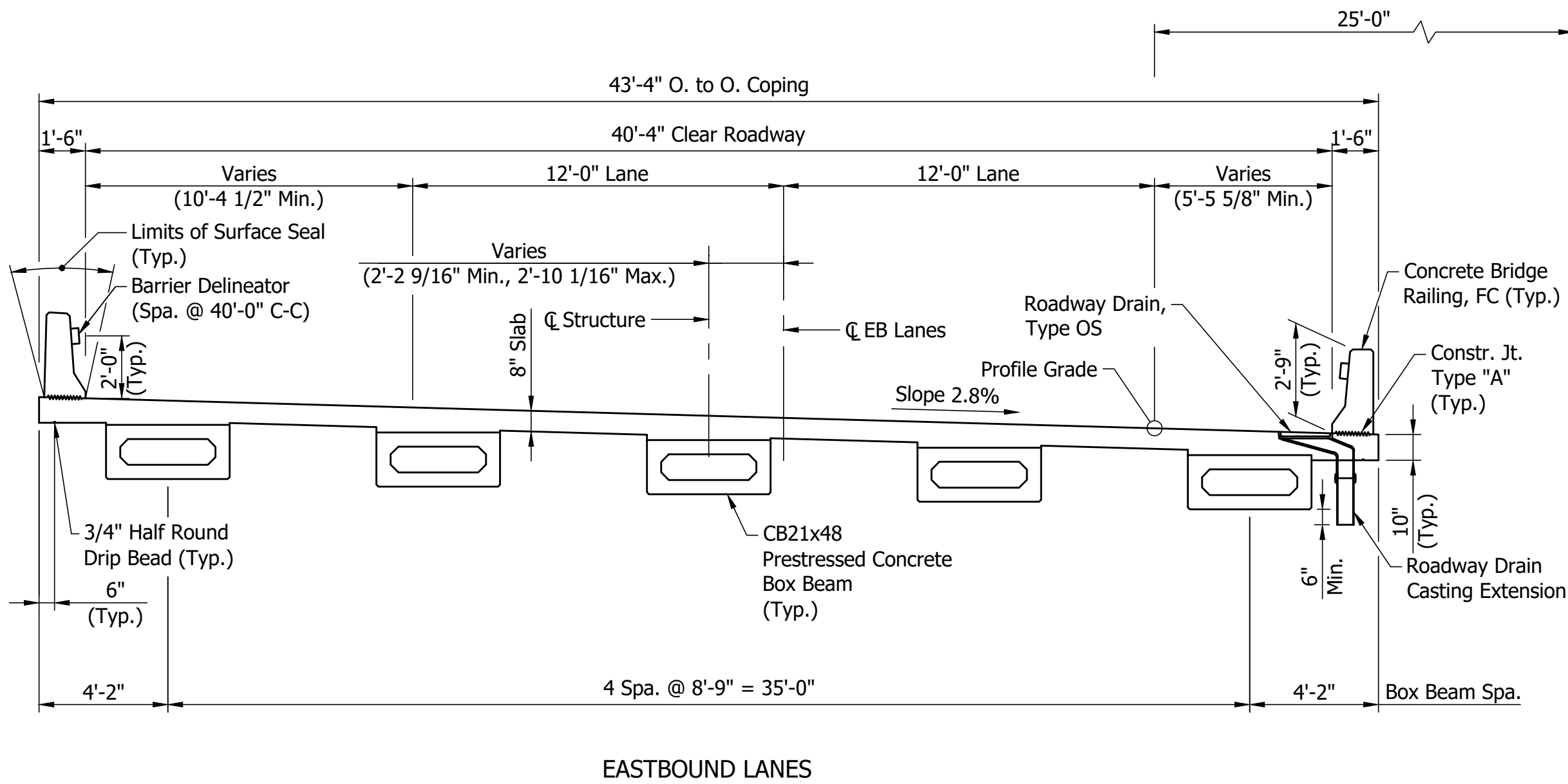
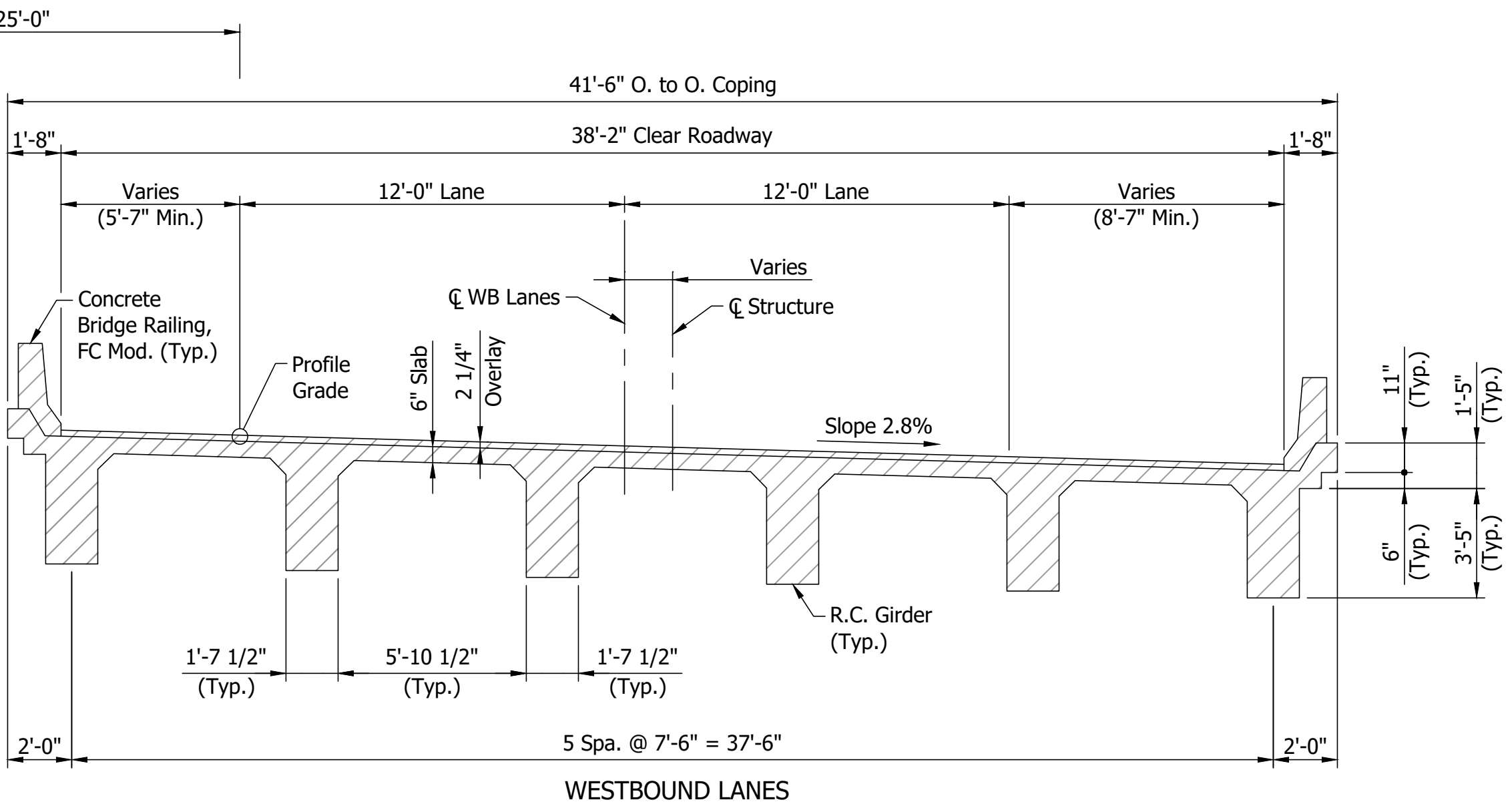
CONCRETE:
Class "A": f'c=3,500 psi
Class "C": f'c=4,000 psi

REINFORCING STEEL:
Grade 60: fy=60,000 psi

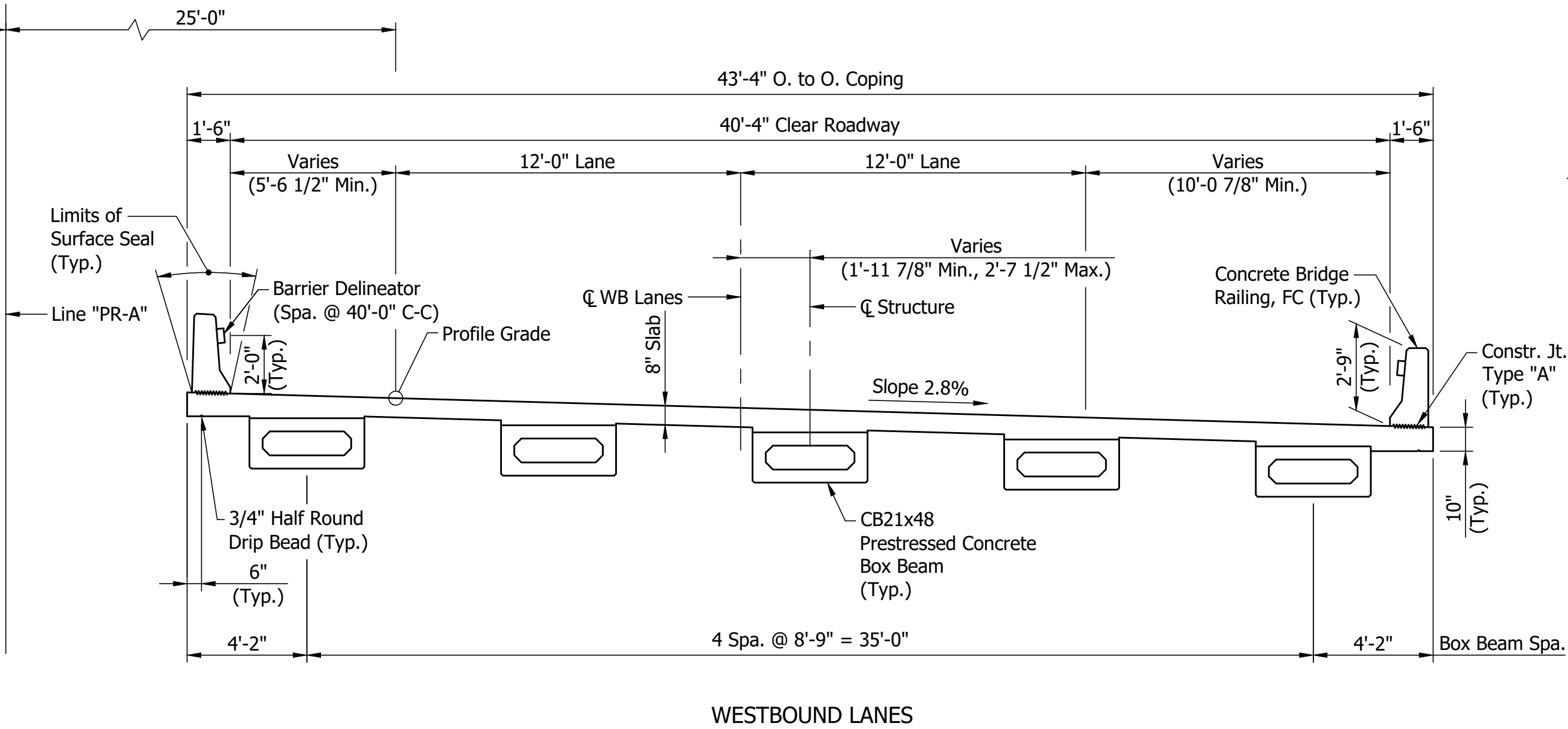
SEISMIC DATA
AASHTO Guide Design Specifications for LRFD Seismic Bridge Design
Seismic Zone 1
S1 = 0.108
Site Class C
Fv = 1.69



EXISTING TYPICAL SECTION
Scale: 1/4" = 1'-0"

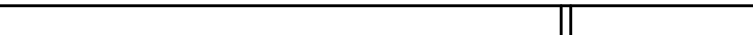


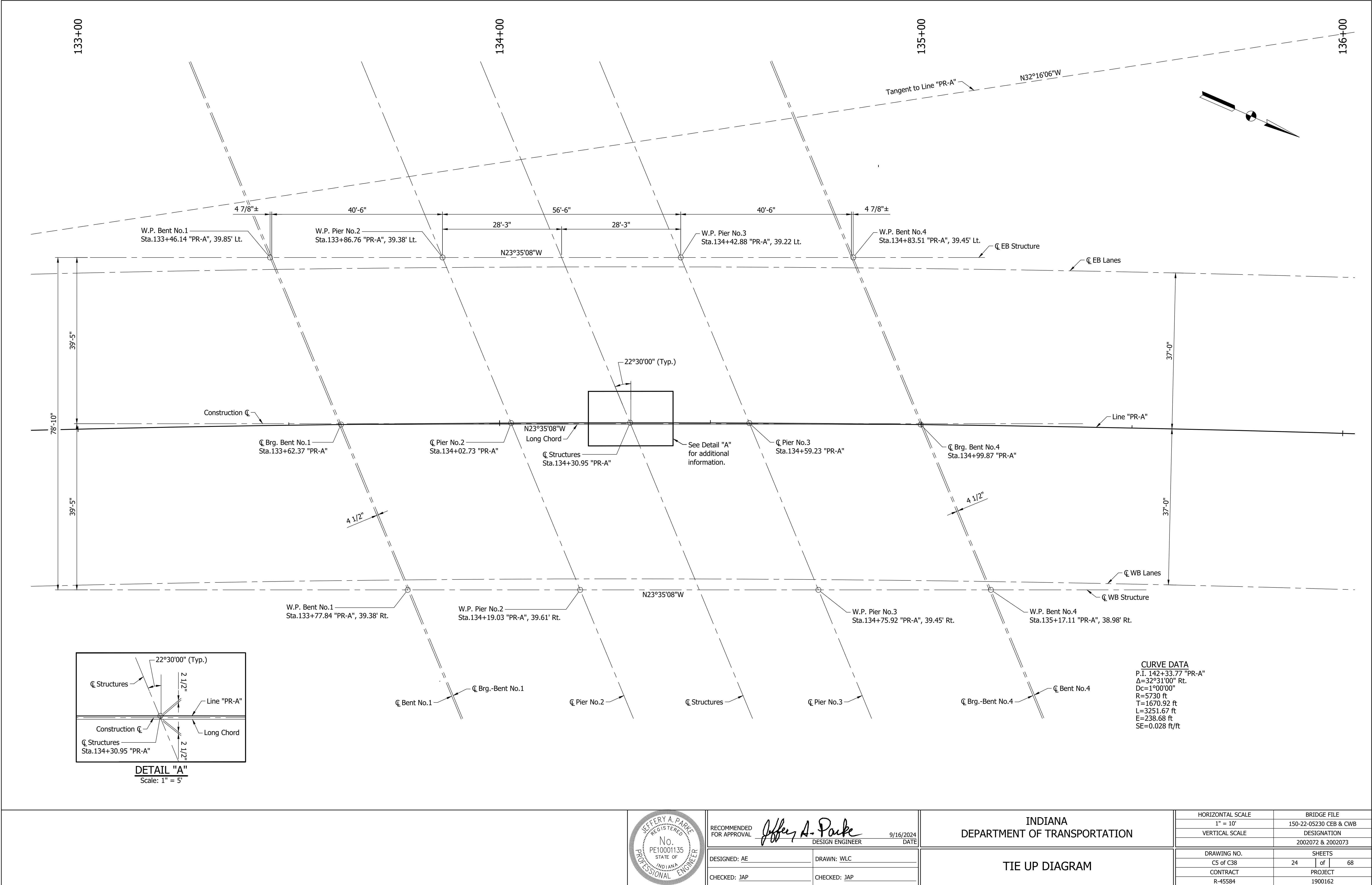
TYPICAL SECTION
Scale: 1/4" = 1'-0"



Note:
For Plan & Elevation, see Dwgs.C2 & C3.

TWIN CONTINUOUS COMPOSITE PRESTRESSED CONCRETE
BOX BEAM BRIDGES
3 SPANS: 40'-6", 56'-6" & 40'-6"
40'-4" CLEAR ROADWAYS SKEW: 22°30'00" LT.
US 150 OVER LITTLE INDIAN CREEK
FLOYD COUNTY

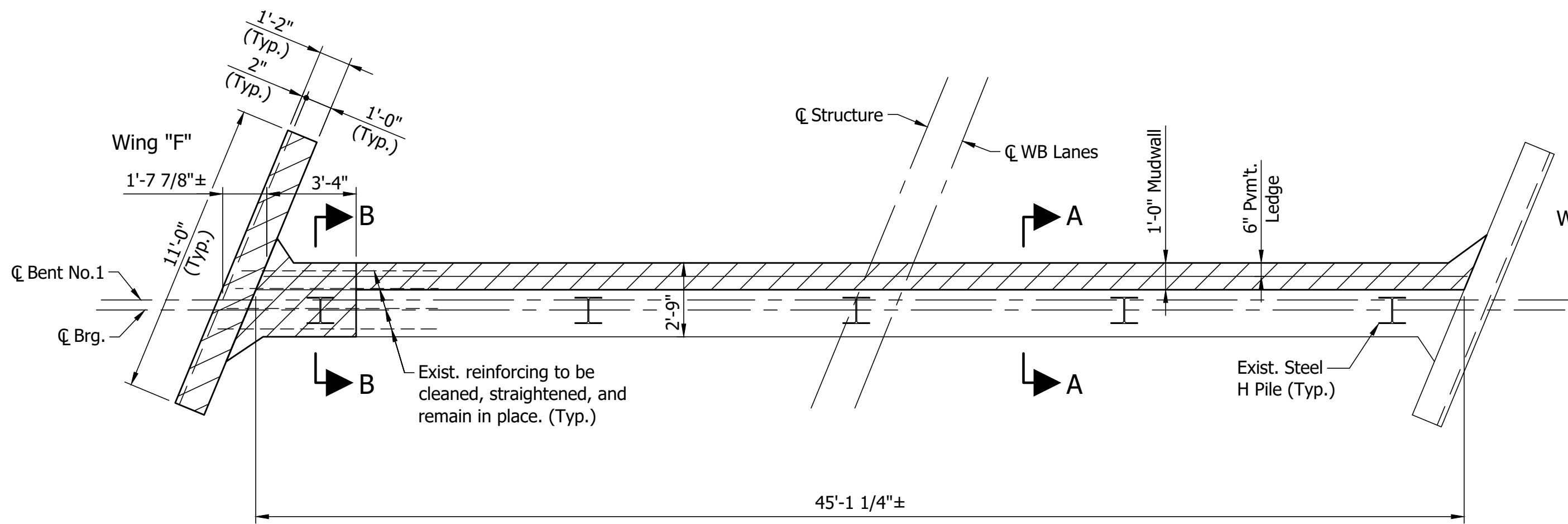
	RECOMMENDED FOR APPROVAL  9/16/2024 DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE		BRIDGE FILE	
					1/4" = 1'-0"		150-22-05230 CEB & CWB	
	DESIGNED: AE DRAWN: NW		GENERAL PLAN TYPICAL SECTION		VERTICAL SCALE		DESIGNATION	
					1/4" = 1'-0"		2002072 & 2002073	
	CHECKED: JAP CHECKED: JAP				DRAWING NO. C4 of C38		SHEETS 23 of 68	
				CONTRACT R-45584		PROJECT 1900162		



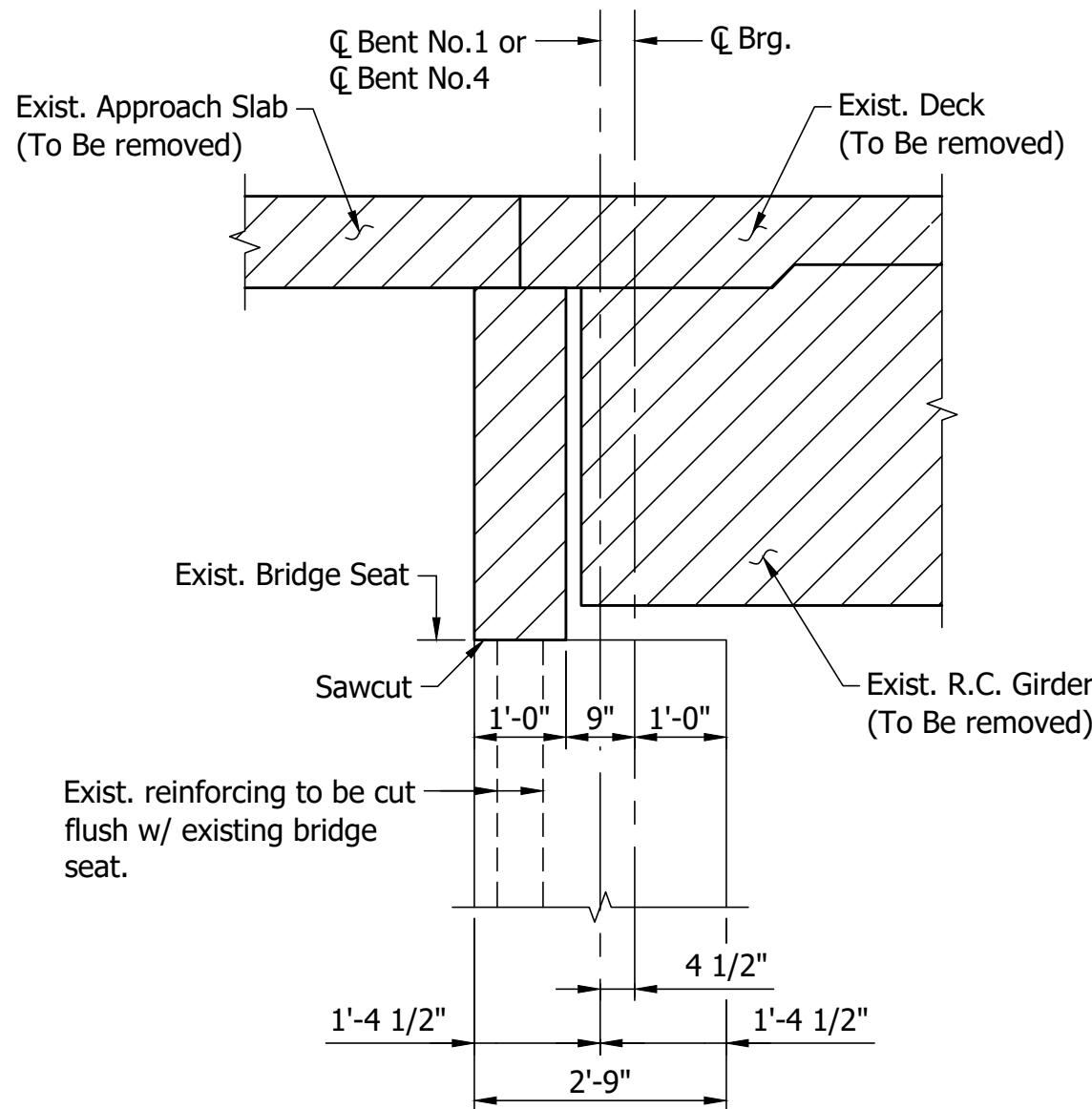
RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED: AE		DRAWN: WLC			
CHECKED: JAP		CHECKED: JAP			

INDIANA DEPARTMENT OF TRANSPORTATION	
TIE UP DIAGRAM	

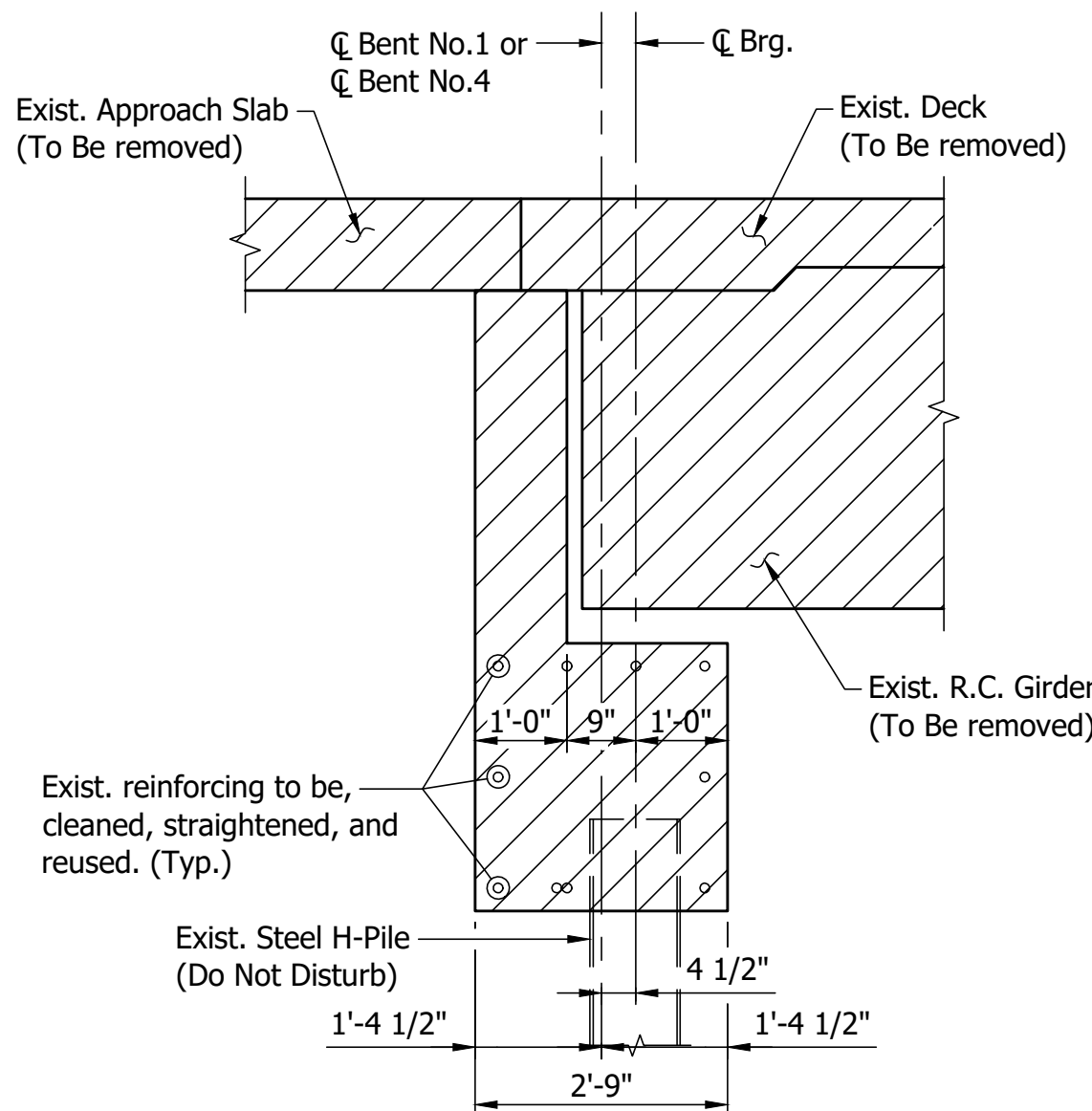
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1" = 10'		150-22-05230 CEB & CWB	
VERTICAL SCALE		DESIGNATION	
		2002072 & 2002073	
DRAWING NO.		SHEETS	
C5 of C38		24	of 68
CONTRACT		PROJECT	
R-45584		1900162	



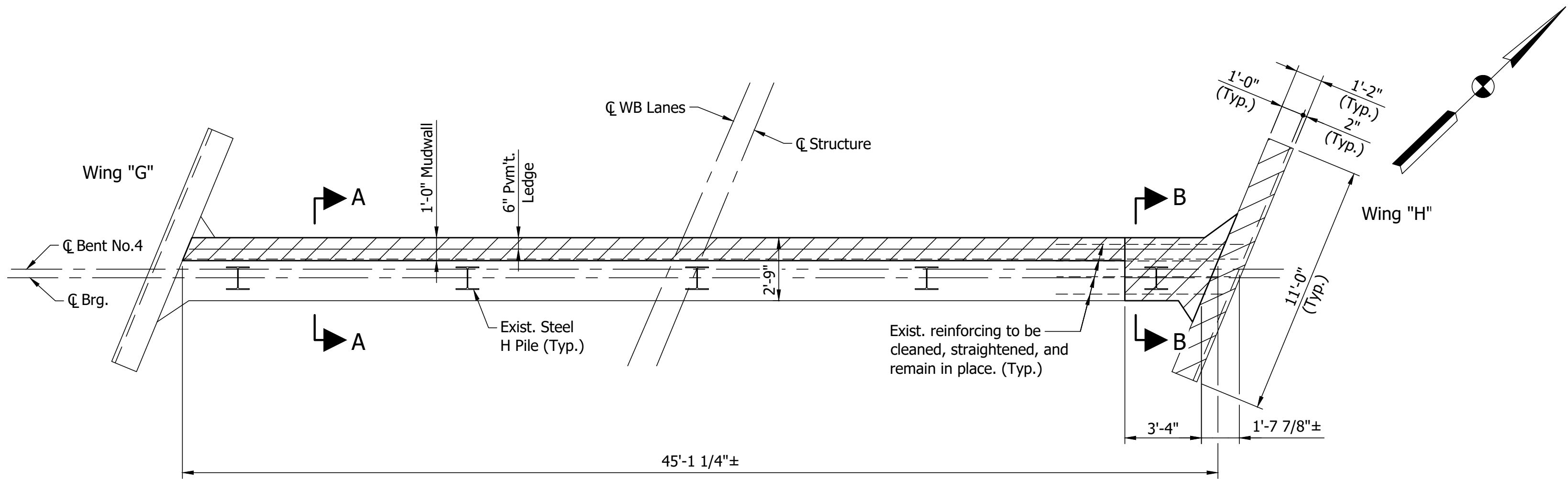
REMOVAL PLAN - BENT NO.1 - WBL
Scale: 1/4" = 1'-0"



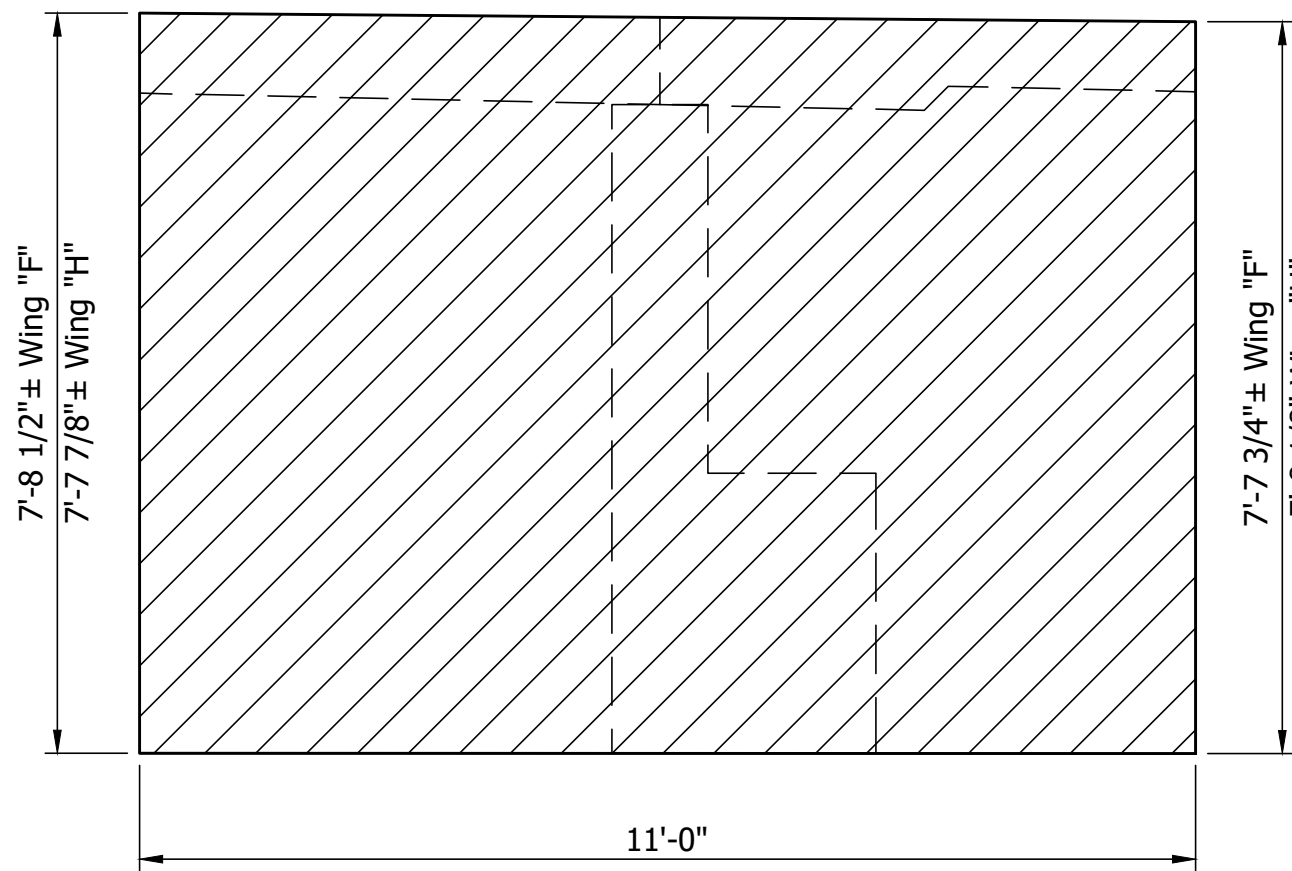
SECTION A-A
Scale: 1/2" = 1'-0"



SECTION B-B
Scale: 1/2" = 1'-0"



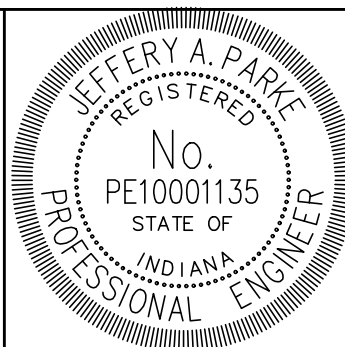
REMOVAL PLAN - BENT NO.4 - WBL
Scale: 1/4" = 1'-0"



ELEVATION - WING "F" & "H" REMOVAL
Scale: 1/2" = 1'-0"

Indicates Limits of Removal

Notes:
For General Notes, see Dwg.C4.
For Reconstruction Details, see Dwgs.C8 - C11.

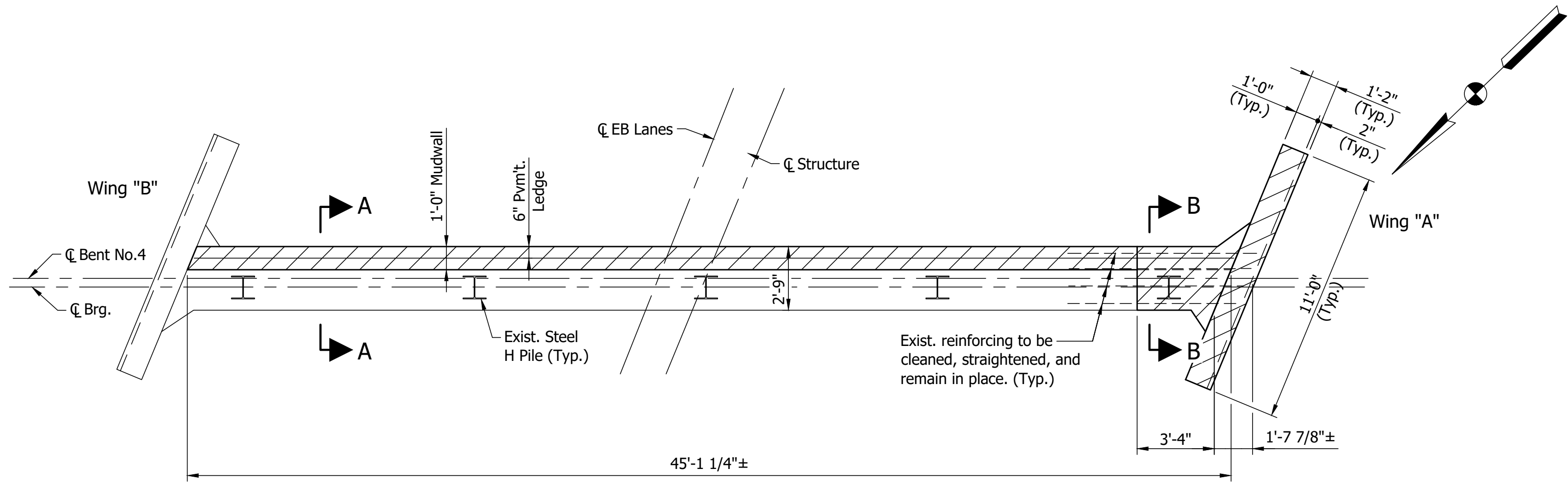


RECOMMENDED FOR APPROVAL	<i>Jeffery A. Parke</i>	9/16/2024
DESIGNED: AE	DRAWN: WLC	DATE
CHECKED: JAP	CHECKED: JAP	

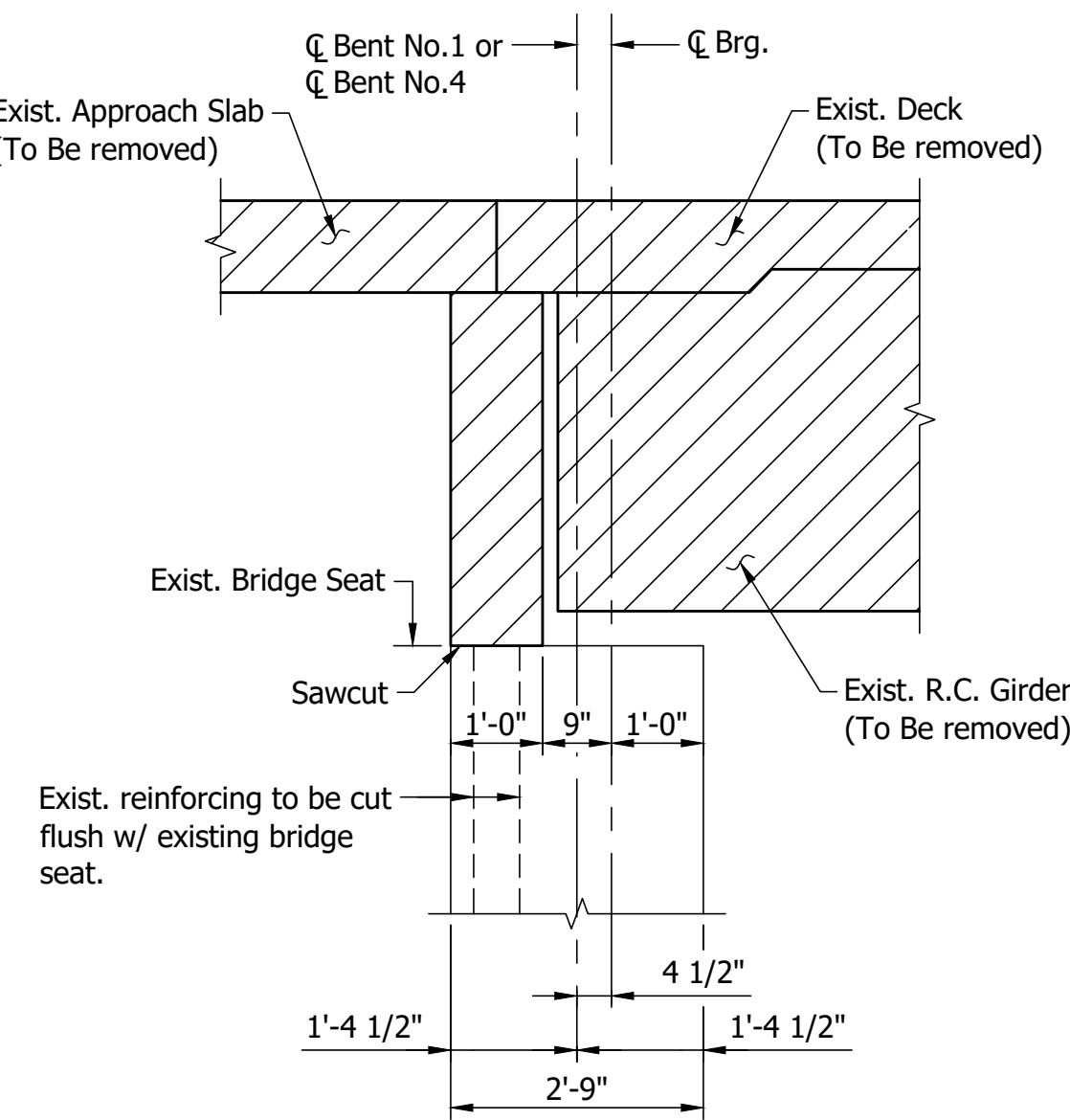
INDIANA
DEPARTMENT OF TRANSPORTATION

REMOVAL DETAILS

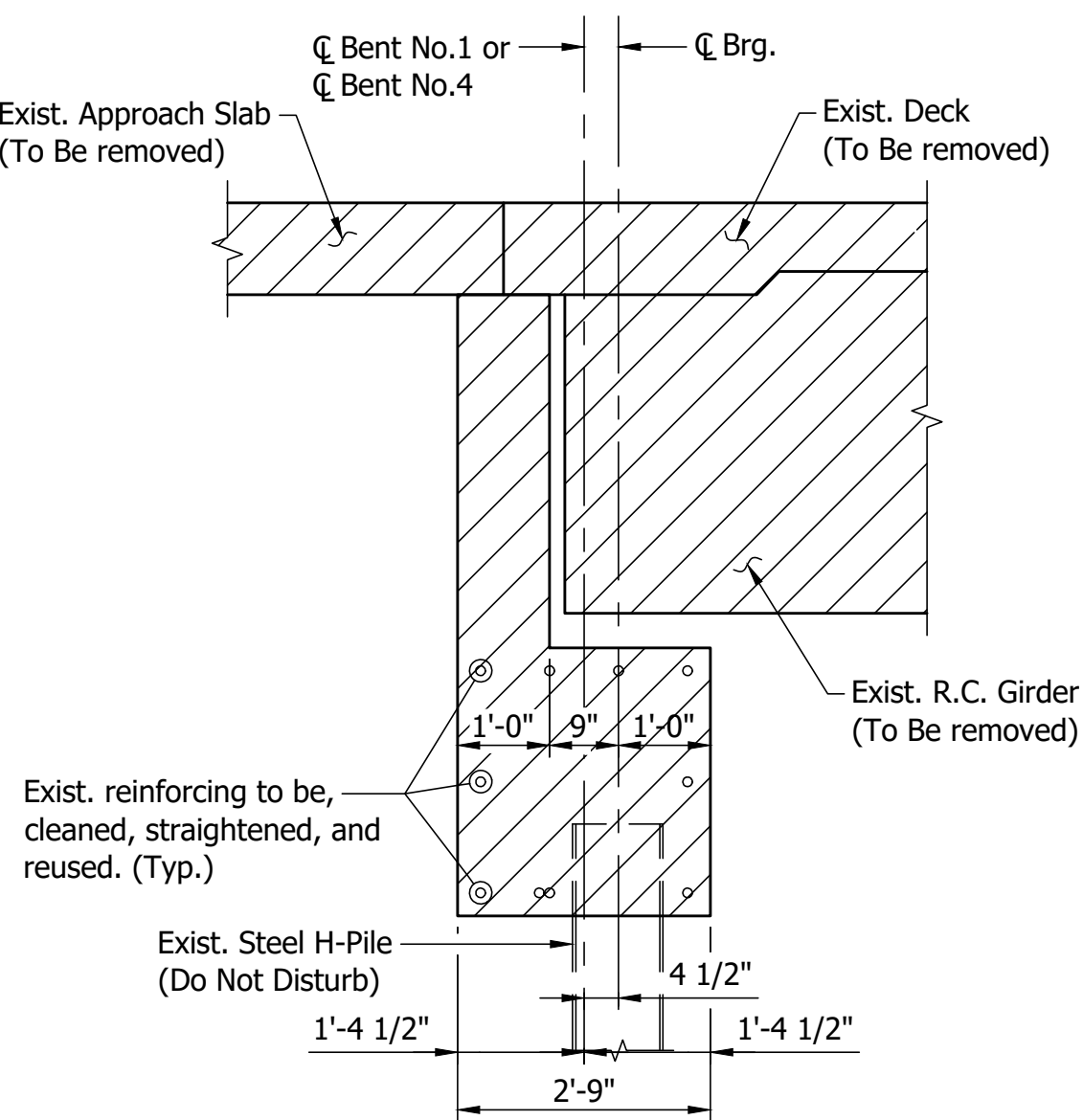
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	150-22-05230 CEB & CWB
VERTICAL SCALE	DESIGNATION
AS NOTED	2002072 & 2002073
DRAWING NO.	SHEETS
C6 of C38	25 of 68
CONTRACT	PROJECT
R-45584	1900162



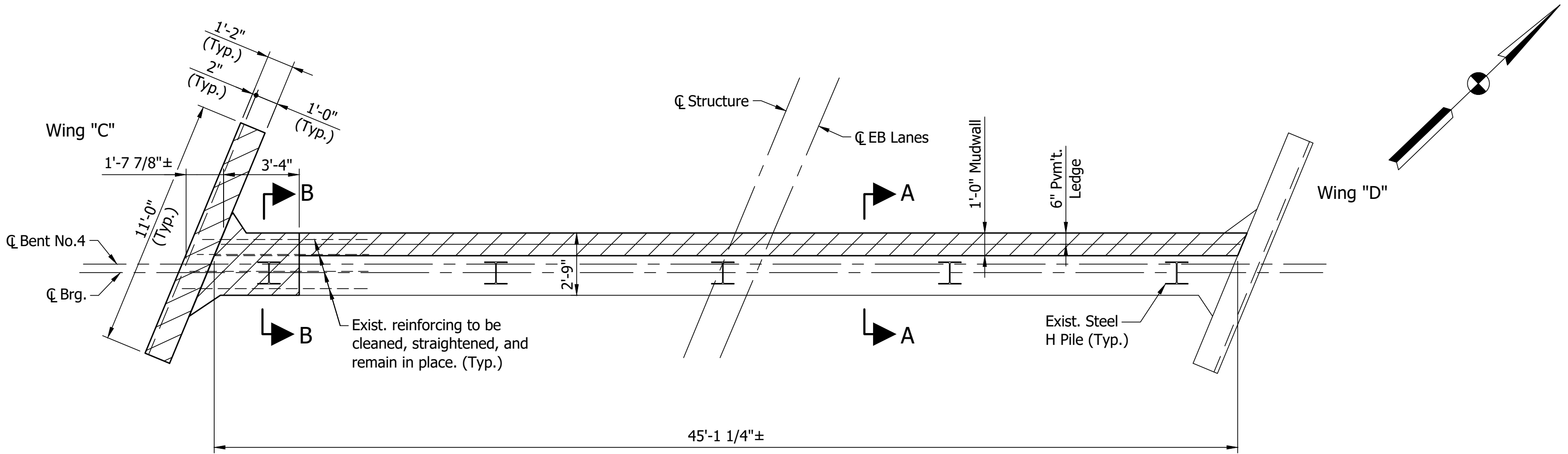
REMOVAL PLAN - BENT NO.1 - EBL
Scale: 1/4" = 1'-0"



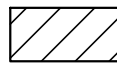
SECTION A-A
Scale: 1/2" = 1'-0"

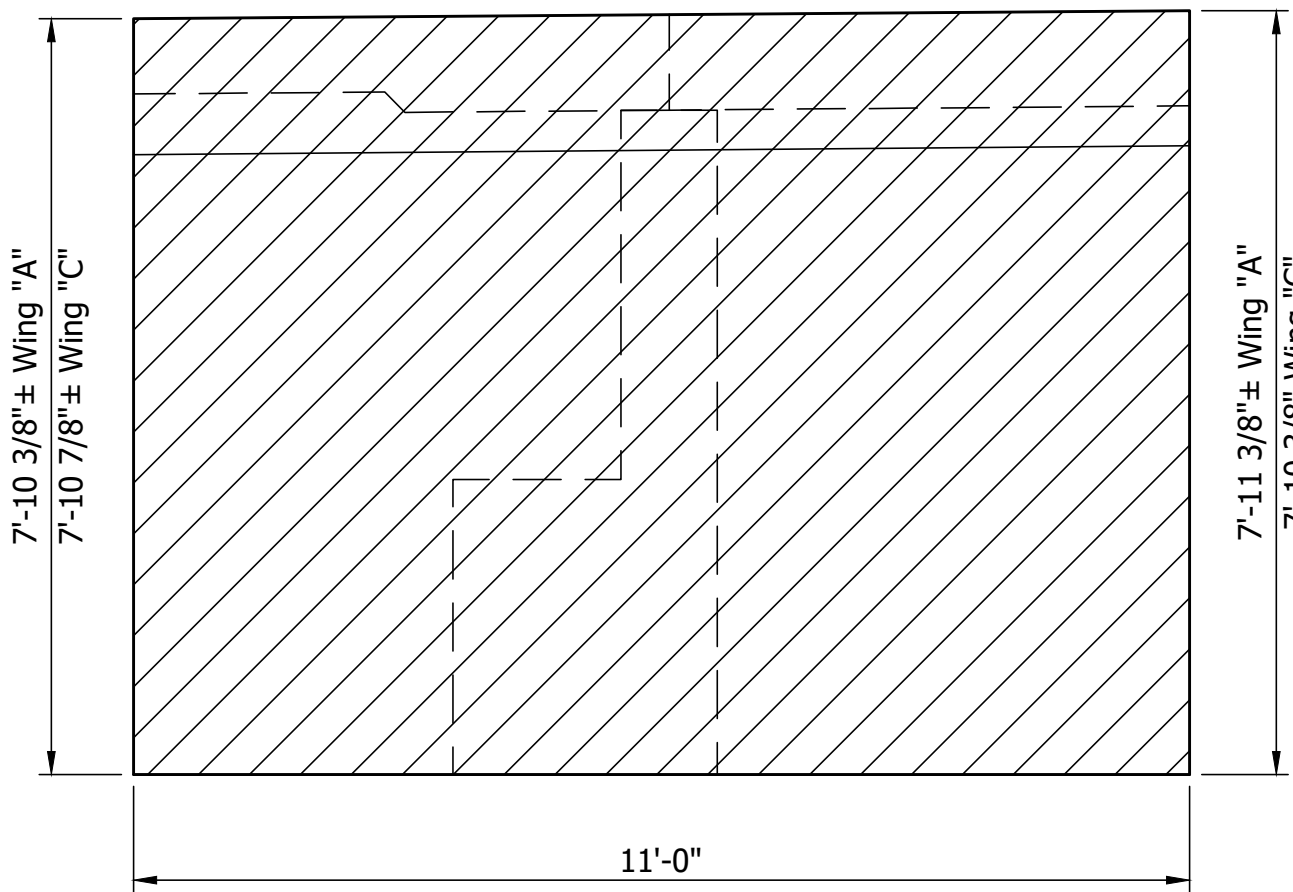


SECTION B-B
Scale: 1/2" = 1'-0"



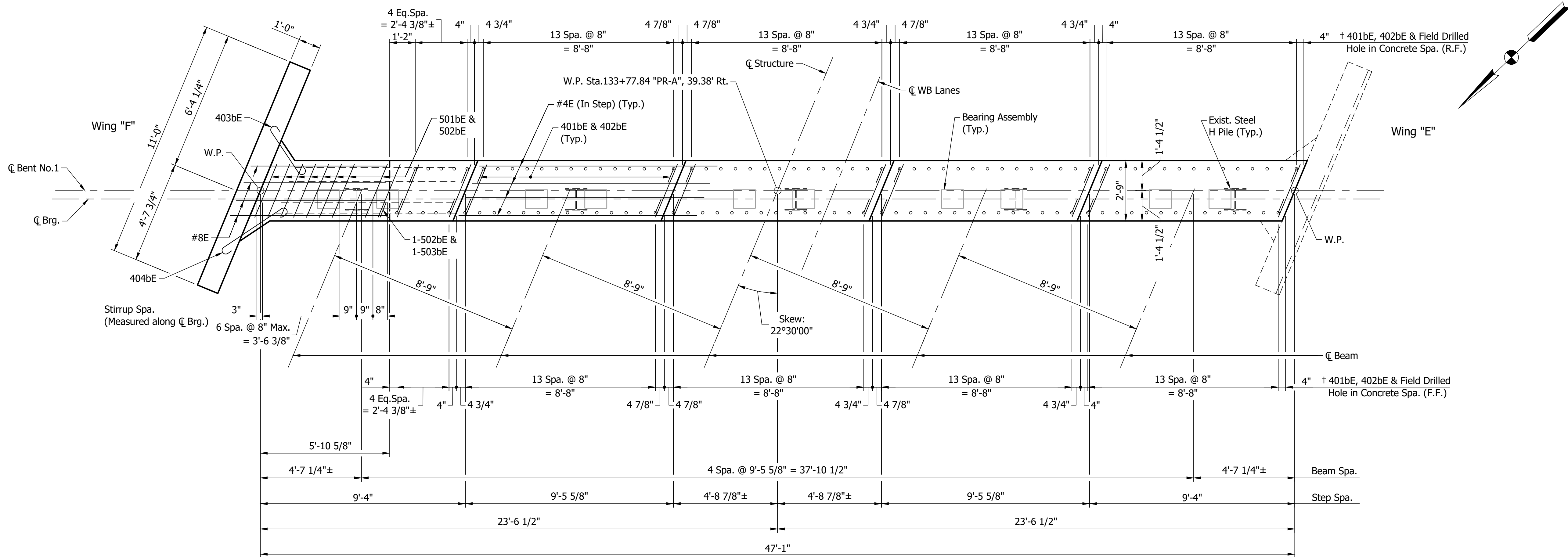
REMOVAL PLAN - BENT NO.4 - EBL
Scale: 1/4" = 1'-0"

 Indicates Limits of Removal



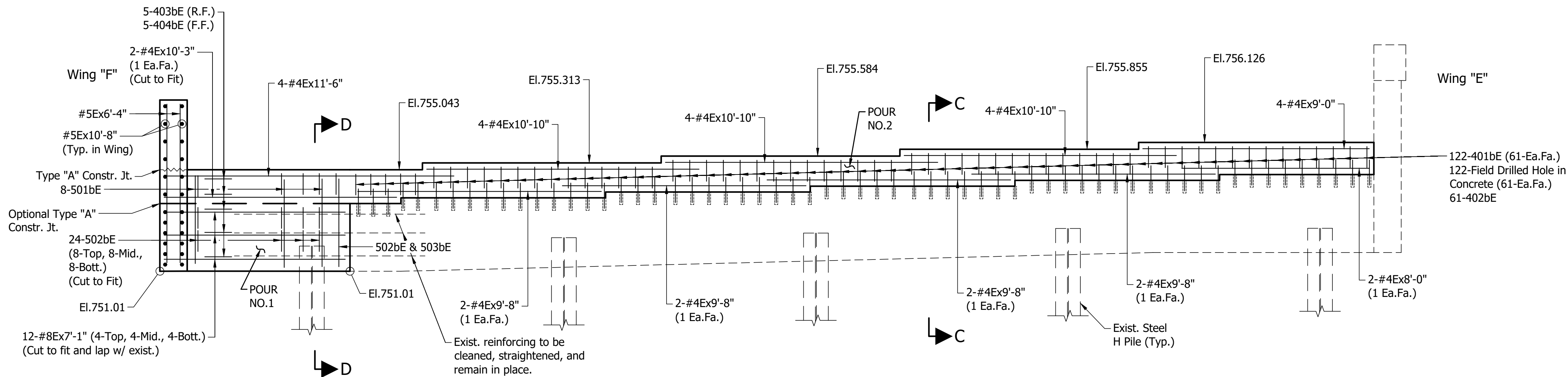
ELEVATION - WING "A" & "C" REMOVAL
Scale: 1/2" = 1'-0"

Notes:
For General Notes, see Dwg.C4.
For Reconstruction Details, see Dwg.C12-C15.



PLAN
Scale: 3/8" = 1'-0"

† Field Drilled Holes in Concrete may be adjusted as needed to maintain Min. Edge Distance = 2 1/2" from existing bridge seat and Max. Spacing @ 8" between holes.



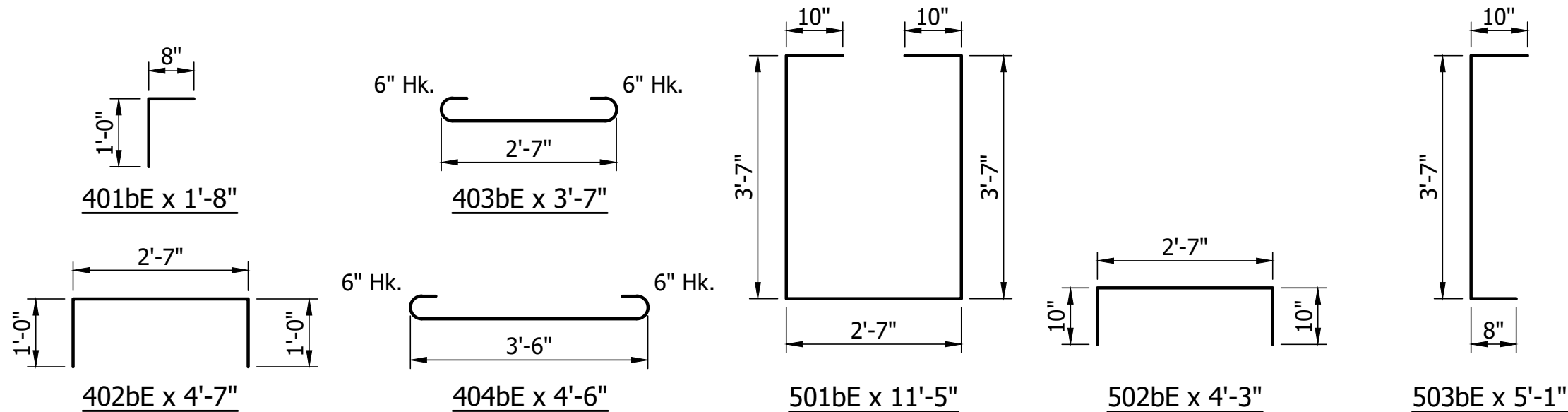
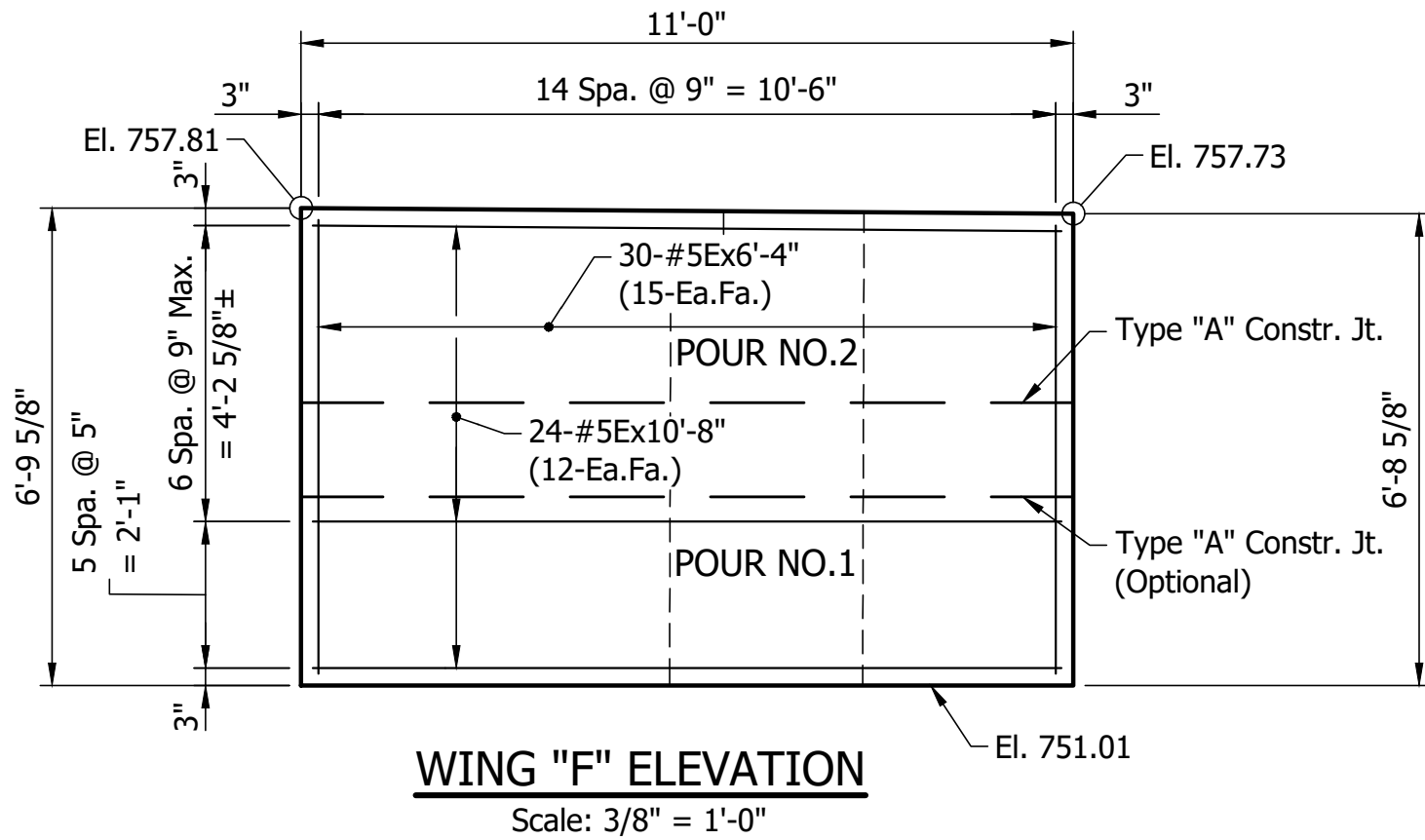
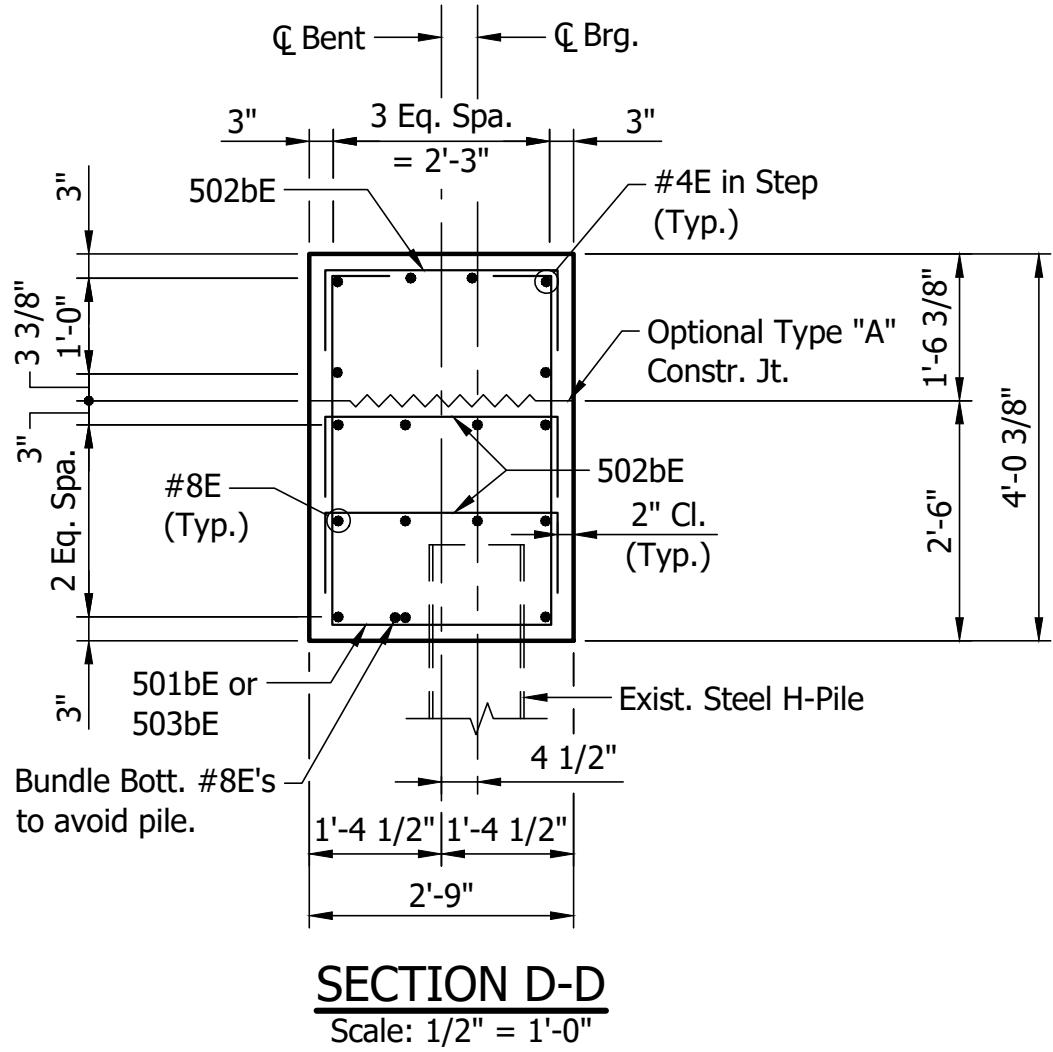
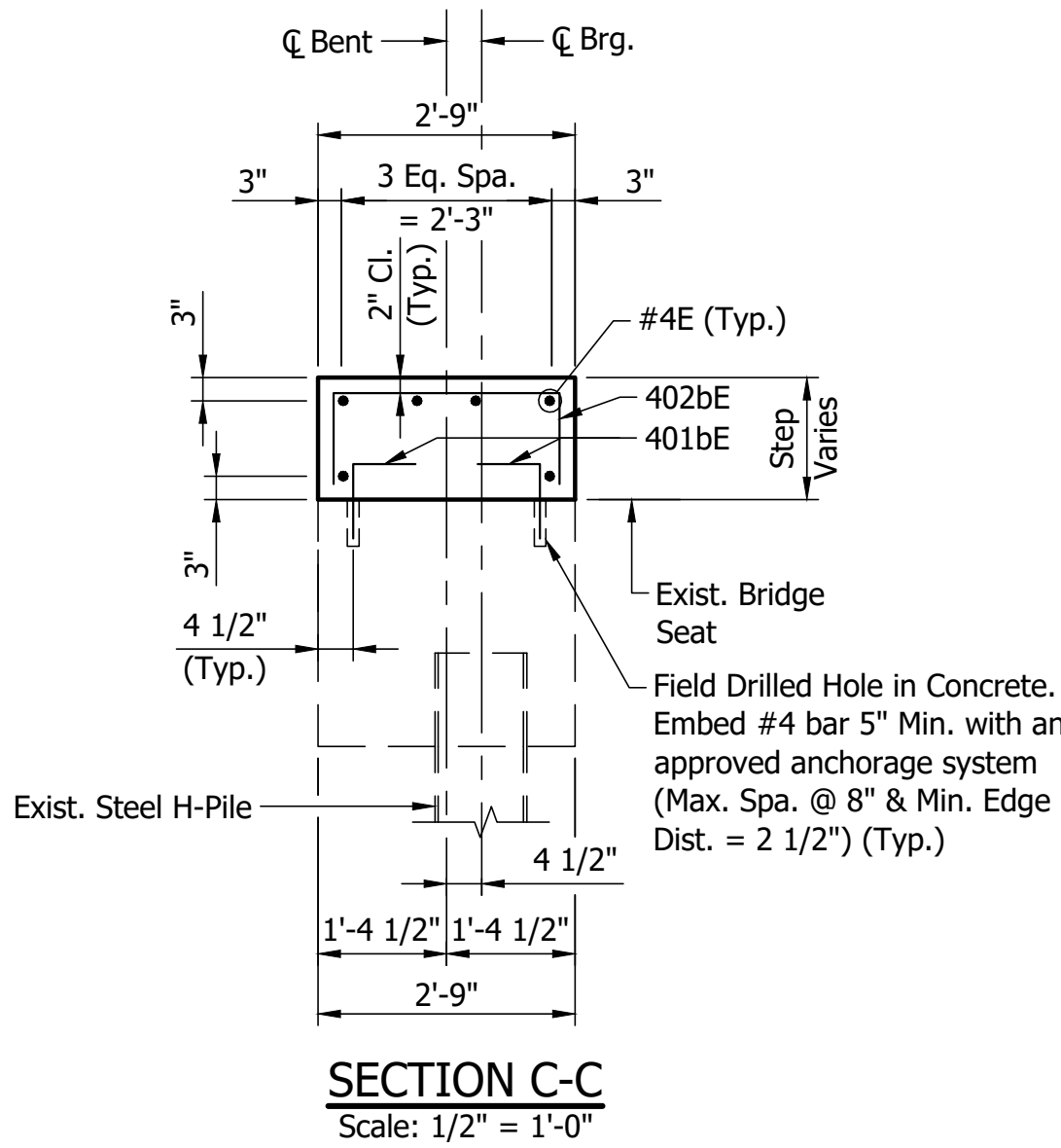
ELEVATION
Scale: 3/8" = 1'-0"

- Notes:
- For General Notes, see Dwg.C4.
 - For Section C-C & D-D, see Dwg.C9.
 - For Removal Details, see Dwg.C6.
 - For Wing Reconstruction Detail, see Dwg.C9.
 - For Backfill Details, see Dwg.C29.
 - For Bearing Assembly Details, see Dwg.C22.
 - For Type "A" Construction Joint, see Std.Dwg.No.E702-CJTA-01.
 - For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.
 - "E" denotes Epoxy Coated Reinforcing Steel.
 - For Bar Bending Diagrams and Bill of Materials, see Dwg.C9.

BILL OF MATERIALS

BENT NO.1 - WBL

REINFORCING BARS			
SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
#8E	12	7'-1"	
Total #8E			227
501bE	8	11'-5"	
502bE	25	4'-3"	
503bE	1	5'-1"	
#5E	24	10'-8"	
#5E	30	6'-4"	
Total #5E			676
401bE	122	1'-8"	
402bE	61	4'-7"	
403bE	5	3'-7"	
404bE	5	4'-6"	
#4E	4	11'-6"	
#4E	12	10'-10"	
#4E	2	10'-3"	
#4E	8	9'-8"	
#4E	4	9'-0"	
#4E	2	8'-0"	
Total #4E			569
Total Epoxy Coated Reinforcing Bars			1472
CONCRETE			
Concrete Class "A" in Substructure			
Pour No.1			2.7 Cys
Pour No.2			9.2 Cys
Total Concrete Class "A" in Substructure			11.9 Cys
MISCELLANEOUS			
Field Drilled Hole in Concrete			122 Ea.
Surface Seal (Est. Quantity)			195 Sft
Foundation Excavation Unclassified			20 Cys



Notes:

For General Notes, see Dwg.C4.

For Location of Section C-C & D-D, see Dwg.C8.

For Removal Details, see Dwg.C6.

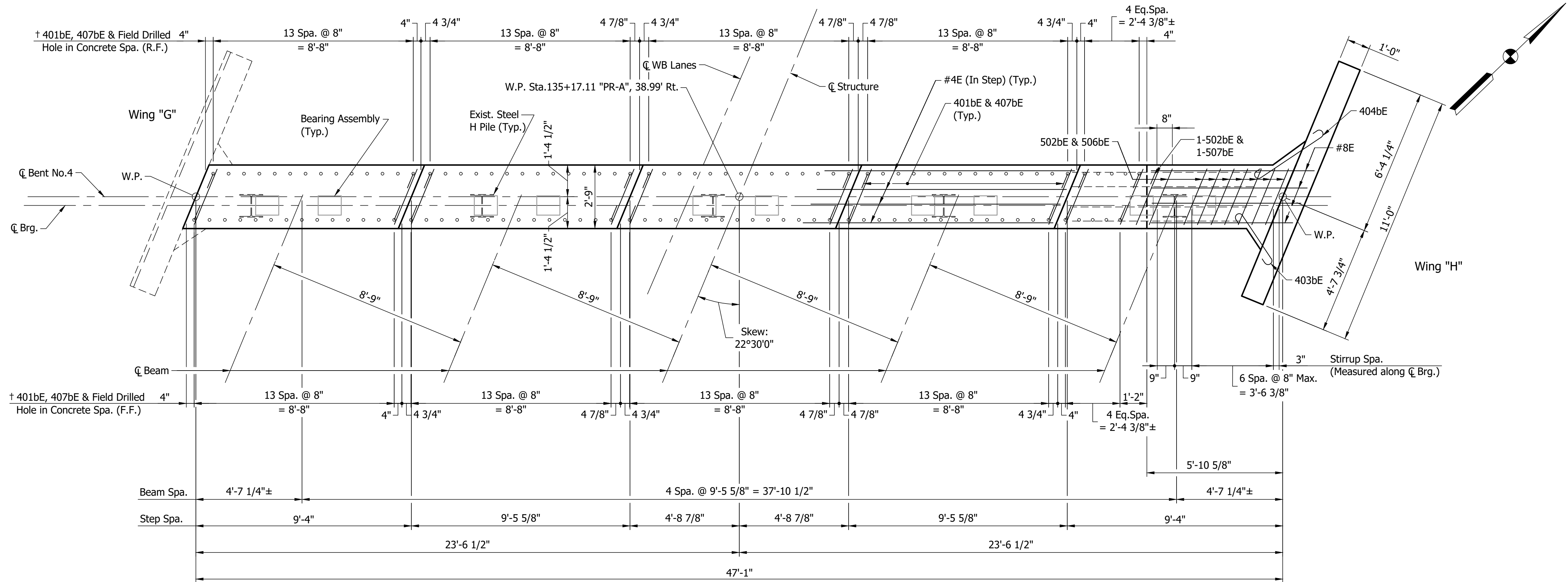
For Backfill Details, see Dwg.C29.

For Bearing Assembly Details, see Dwg.C22.

For Type "A" Construction Joint, see Std.Dwg.No.E702-CJTA-01.

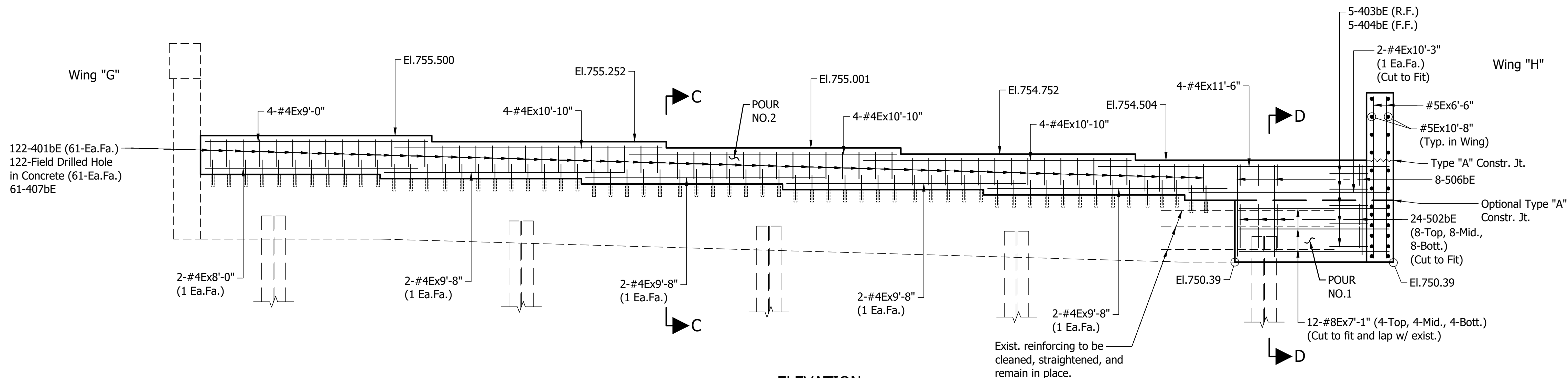
For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.

"E" denotes Epoxy Coated Reinforcing Steel.



† Field Drilled Holes in Concrete may be adjusted as needed to maintain Min. Edge Distance = 2 1/2" from existing bridge seat and Max. Spacing @ 8" between holes.

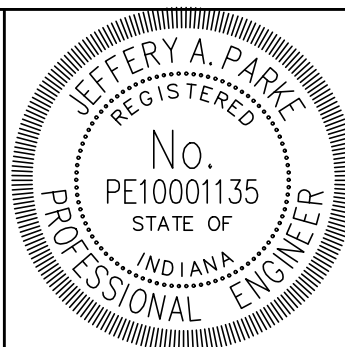
PLAN
Scale: 3/8" = 1'-0"



ELEVATION
Scale: 3/8" = 1'-0"

Notes:

- For General Notes, see Dwg.C4.
- For Section C-C & D-D, see Dwg.C11.
- For Removal Details, see Dwg.C6.
- For Wing Reconstruction Detail, see Dwg.C11.
- For Type "A" Construction Joint, see Std.Dwg.No.E702-CJTA-01.
- For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.
- "E" denotes Epoxy Coated Reinforcing Steel.
- For Bar Bending Diagrams and Bill of Materials, see Dwg.C11.



RECOMMENDED FOR APPROVAL	<i>Jeffery A. Parke</i>	DESIGN ENGINEER	9/16/2024	DATE
DESIGNED: AE	DRAWN: WLC			
CHECKED: JAP	CHECKED: JAP			

INDIANA
DEPARTMENT OF TRANSPORTATION

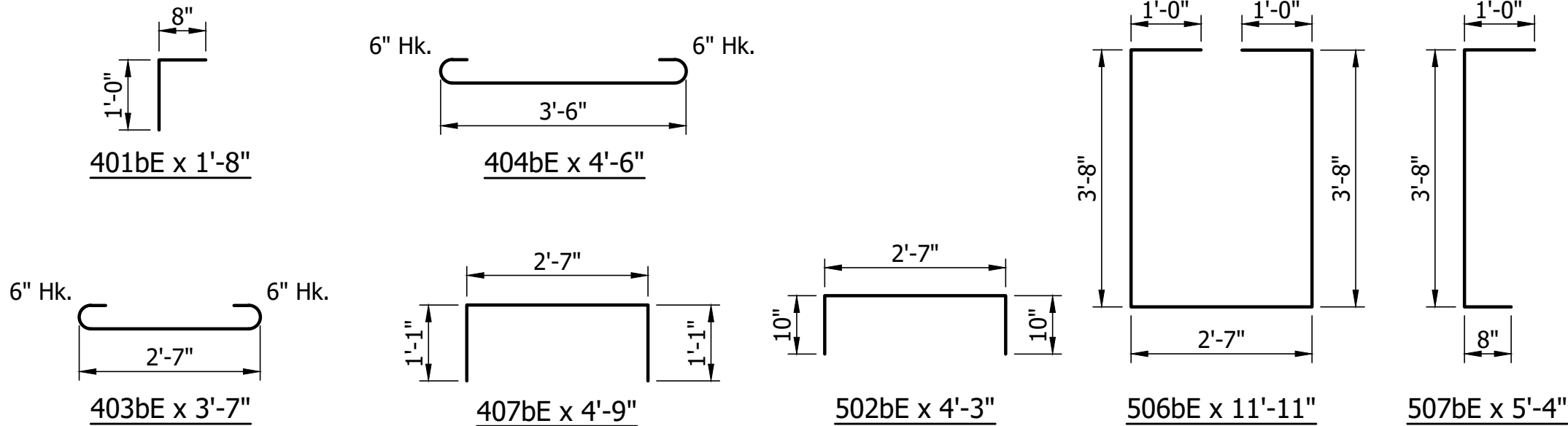
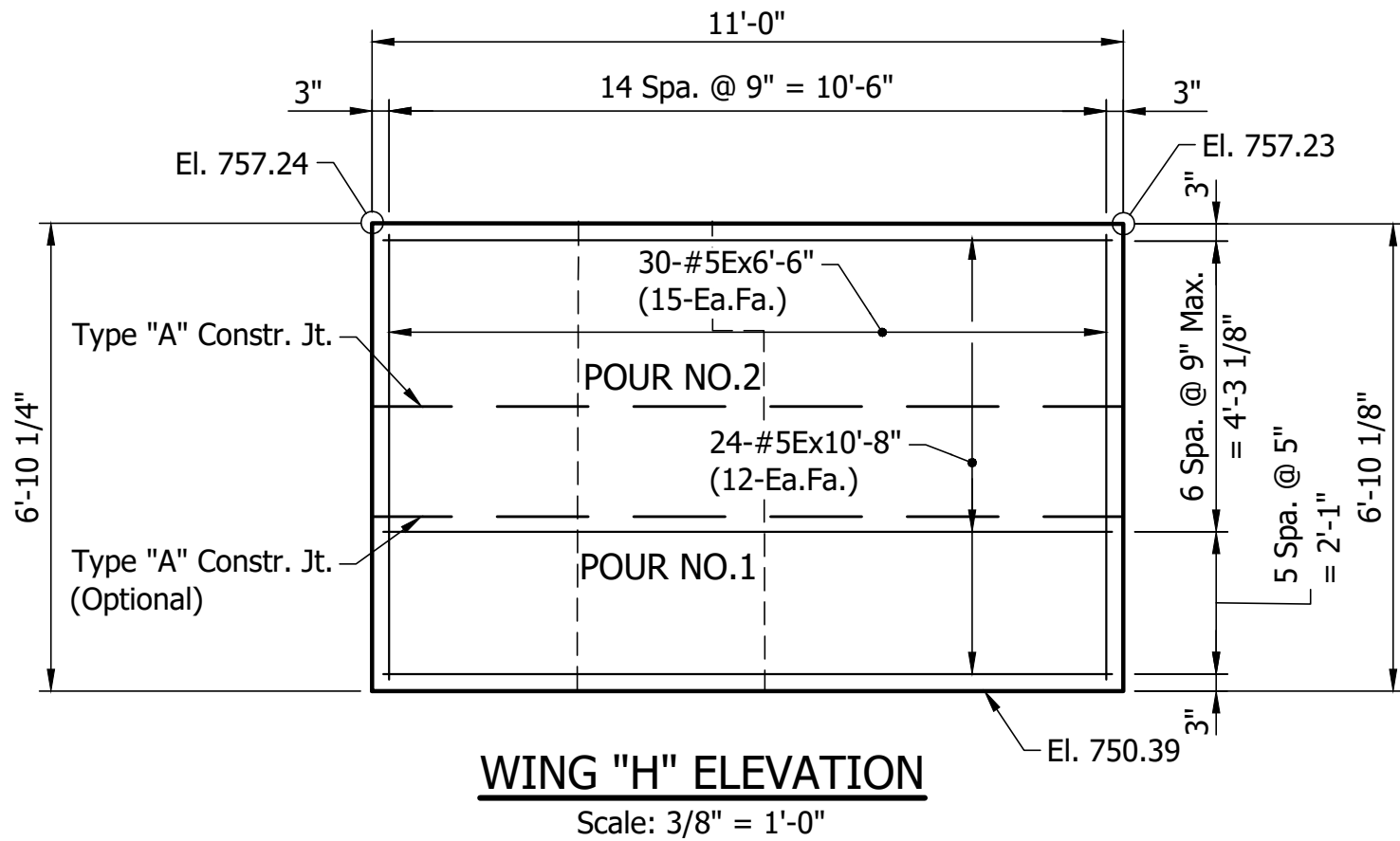
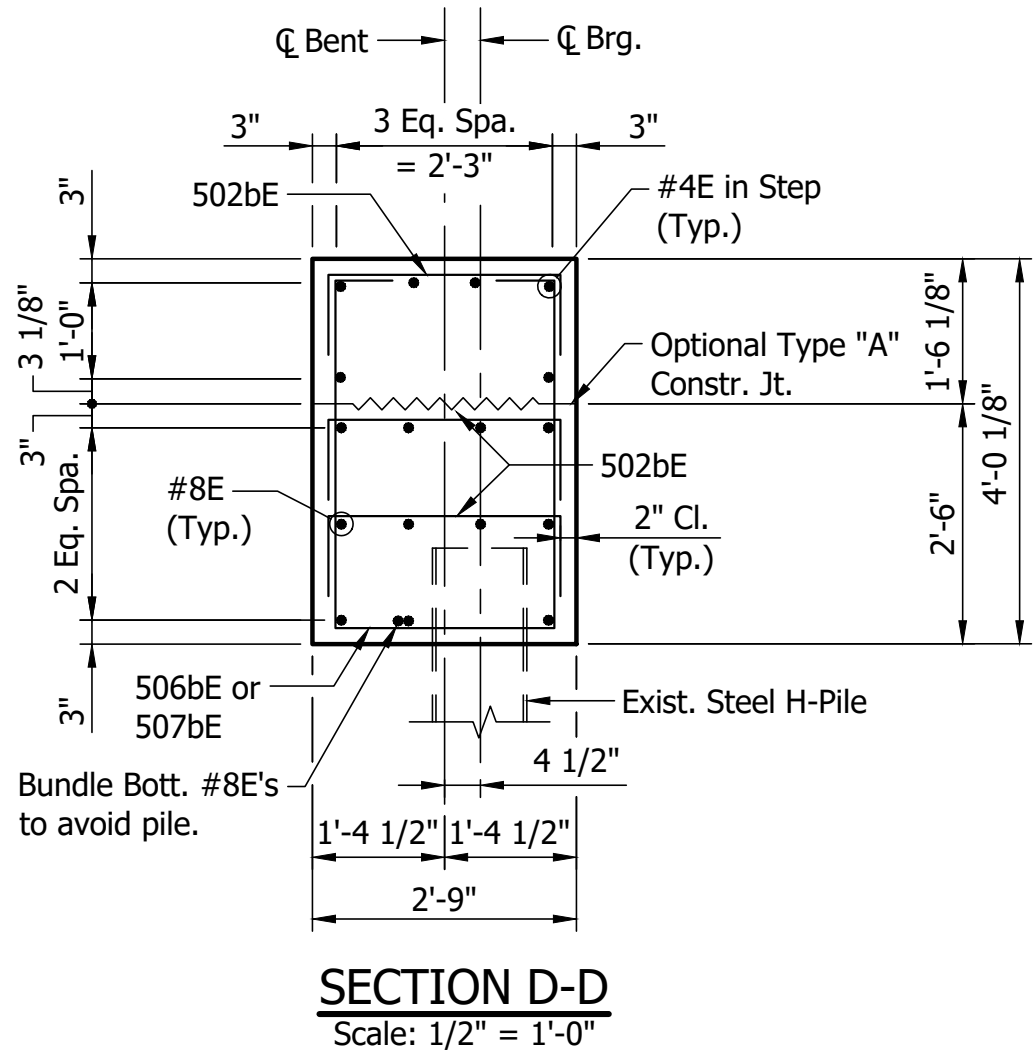
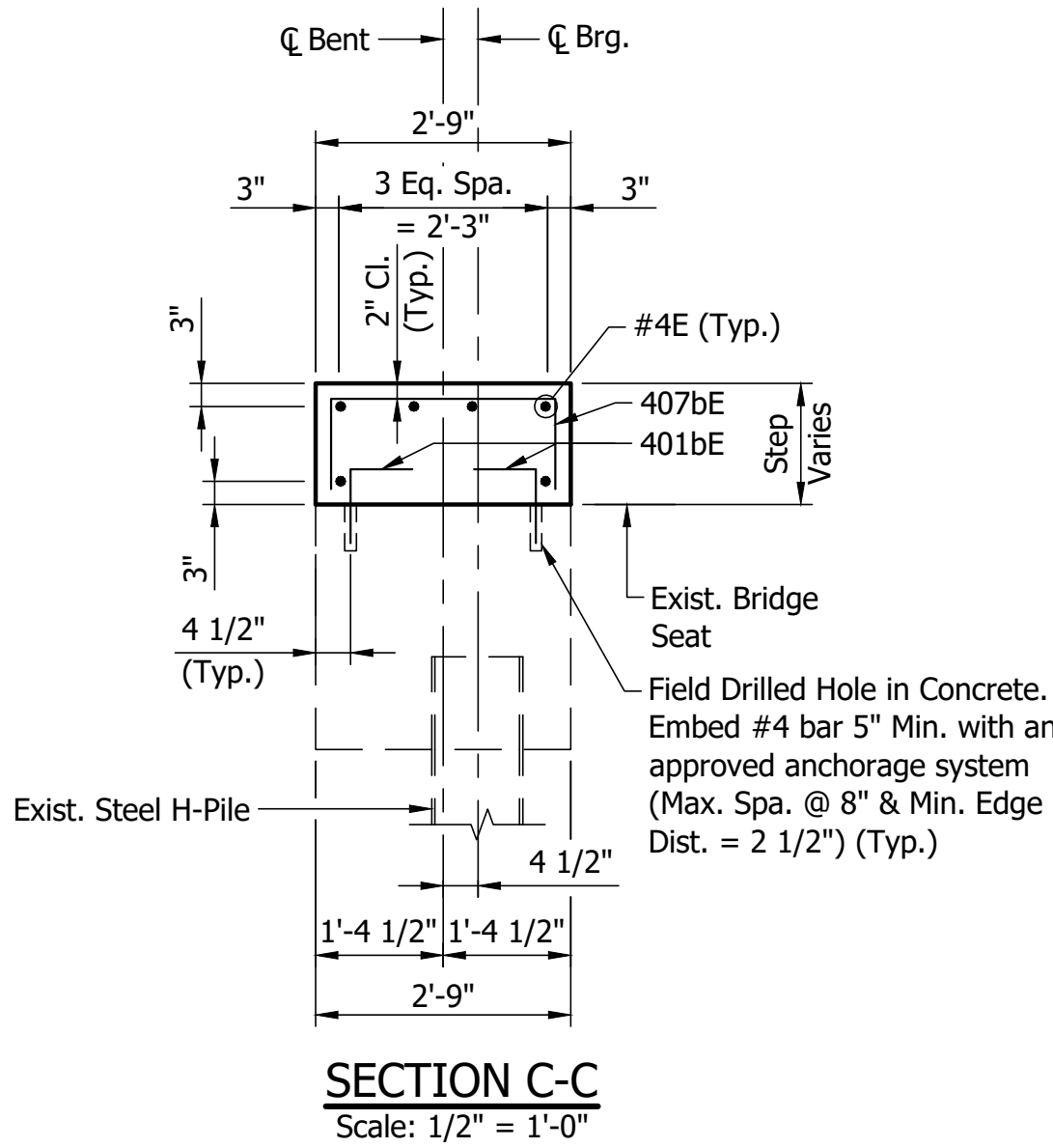
END BENT DETAILS
BENT NO. 4 - WESTBOUND LANES

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	150-22-05230 CEB & CWB
VERTICAL SCALE	DESIGNATION
AS NOTED	2002072 & 2002073
DRAWING NO.	SHEETS
C10 of C38	29 of 68
CONTRACT	PROJECT
R-45584	1900162

BILL OF MATERIALS

BENT NO.4 - WBL

REINFORCING BARS			
SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
#8E	12	7'-1"	
Total #8E			227
502bE	25	4'-3"	
506bE	8	11'-11"	
507bE	1	5'-4"	
#5E	24	10'-8"	
#5E	30	6'-6"	
Total #5E			686
401bE	122	1'-8"	
403bE	5	3'-7"	
404bE	5	4'-6"	
407bE	61	4'-9"	
#4E	4	11'-6"	
#4E	12	10'-10"	
#4E	2	10'-3"	
#4E	8	9'-8"	
#4E	4	9'-0"	
#4E	2	8'-0"	
Total #4E			576
Total Epoxy Coated Reinforcing Bars			1489
CONCRETE			
Concrete Class "A" in Substructure			
Pour No.1			2.6 Cys
Pour No.2			9.4 Cys
Total Concrete Class "A" in Substructure			12.0 Cys
MISCELLANEOUS			
Field Drilled Hole in Concrete			122 Ea.
Surface Seal (Est. Quantity)			195 Sft
Foundation Excavation Unclassified			20 Cys



Notes:

For General Notes, see Dwg.C4.

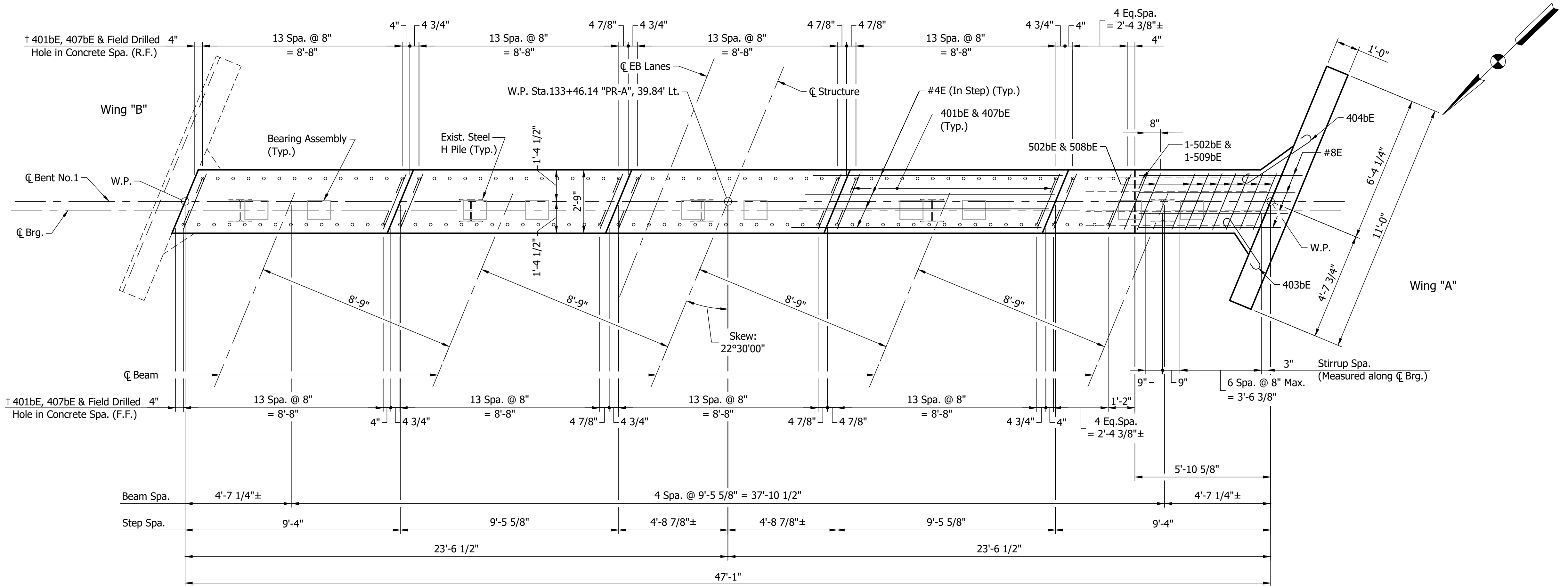
For Location of Section C-C & D-D, see Dwg.C10.

For Removal Details, see Dwg.C6.

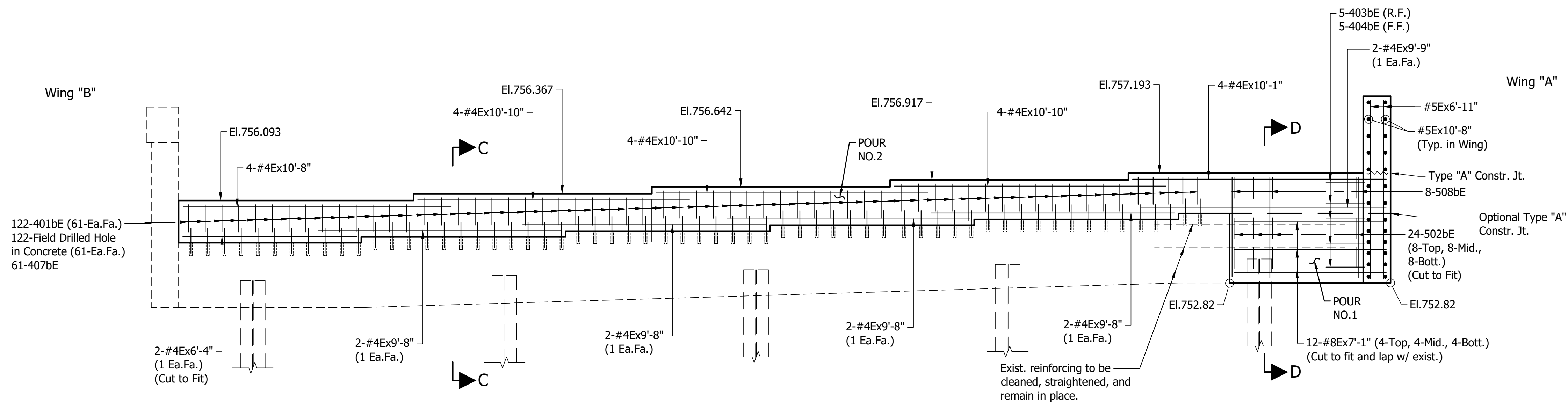
For Type "A" Construction Joint, see Std.Dwg.No.E702-CJTA-01.

For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.

"E" denotes Epoxy Coated Reinforcing Steel.

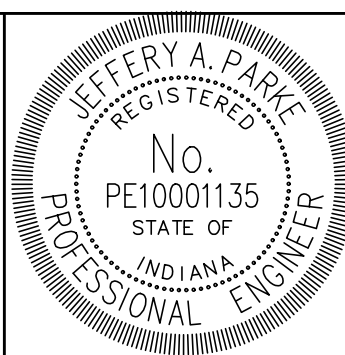


PLAN
Scale: 3/8" = 1'-0"



ELEVATION
Scale: 3/8" = 1'-0"

- Notes:
- For General Notes, see Dwg.C4.
 - For Section C-C & D-D, see Dwg.C13.
 - For Removal Details, see Dwg.C7.
 - For Wing Reconstruction Detail, see Dwg.C13.
 - For Type "A" Construction Joint, see Std.Dwg.No.E702-CJTA-01.
 - For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.
 - "E" denotes Epoxy Coated Reinforcing Steel.
 - For Bar Bending Diagrams and Bill of Materials, see Dwg.C13.



RECOMMENDED FOR APPROVAL
DESIGN ENGINEER
9/16/2024
DATE

DESIGNED: AE
DRAWN: WLC
CHECKED: JAP
CHECKED: JAP

INDIANA
DEPARTMENT OF TRANSPORTATION

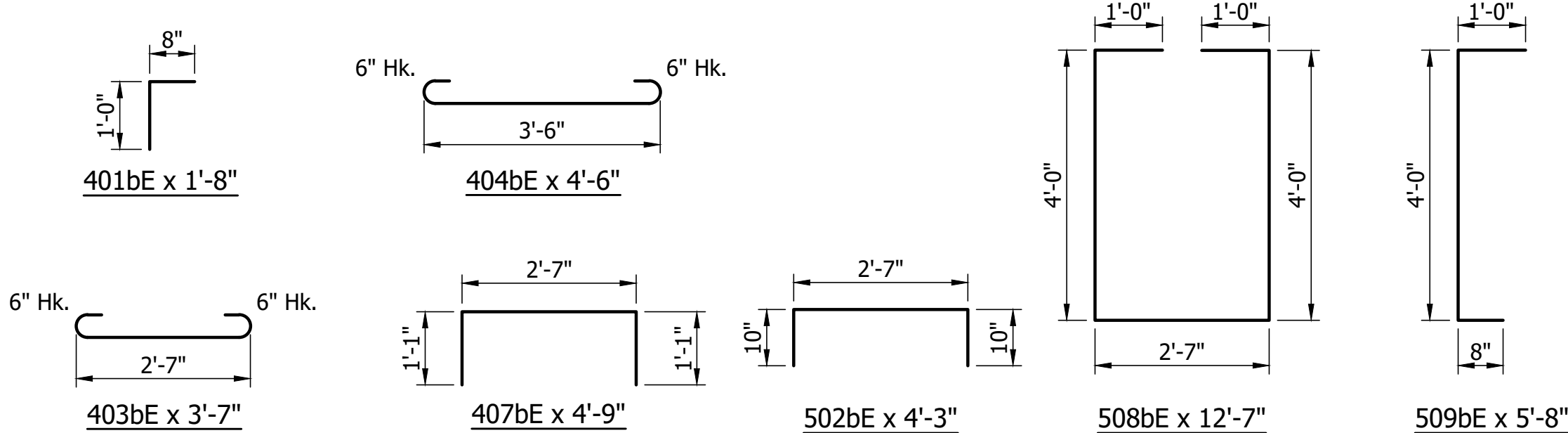
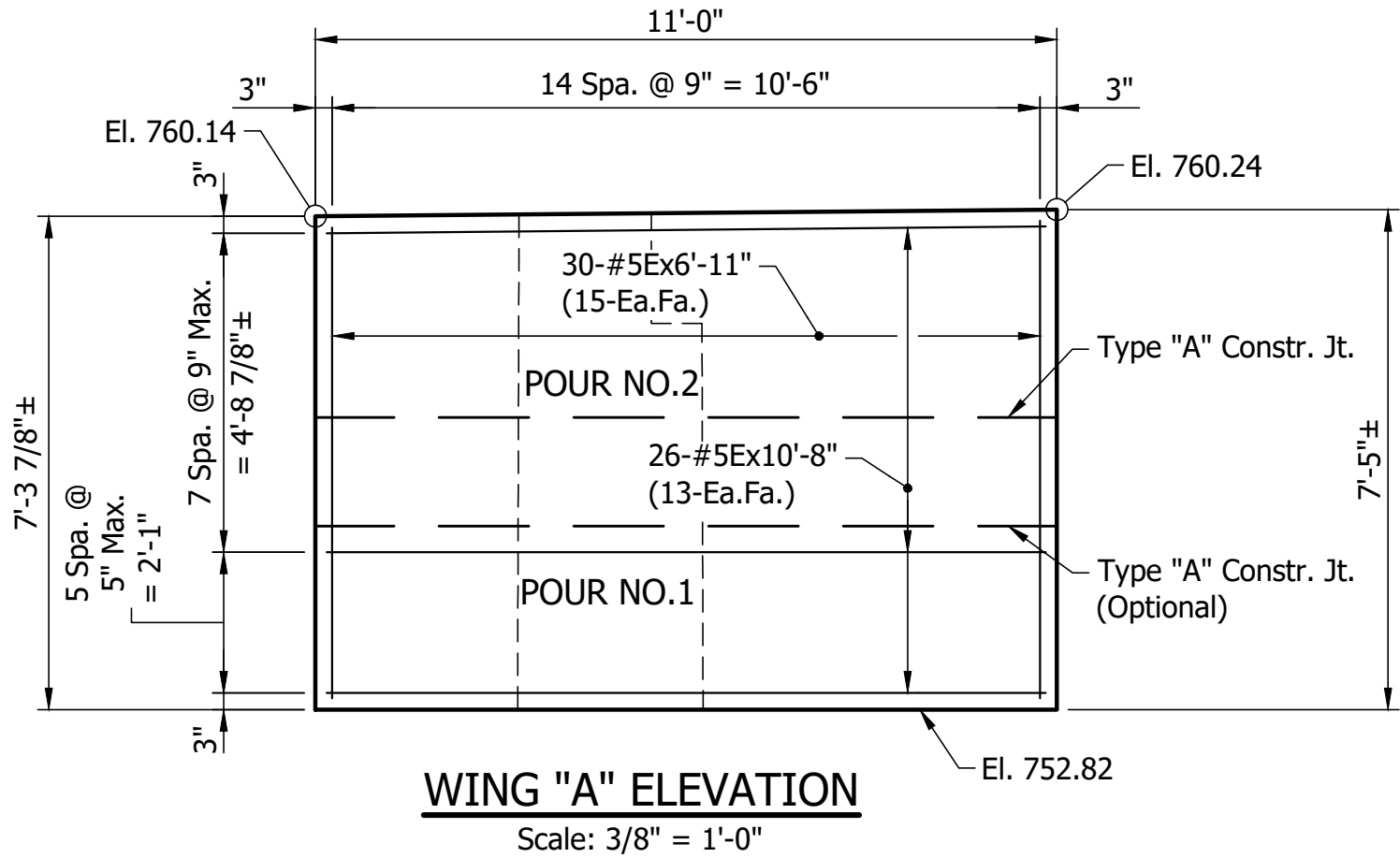
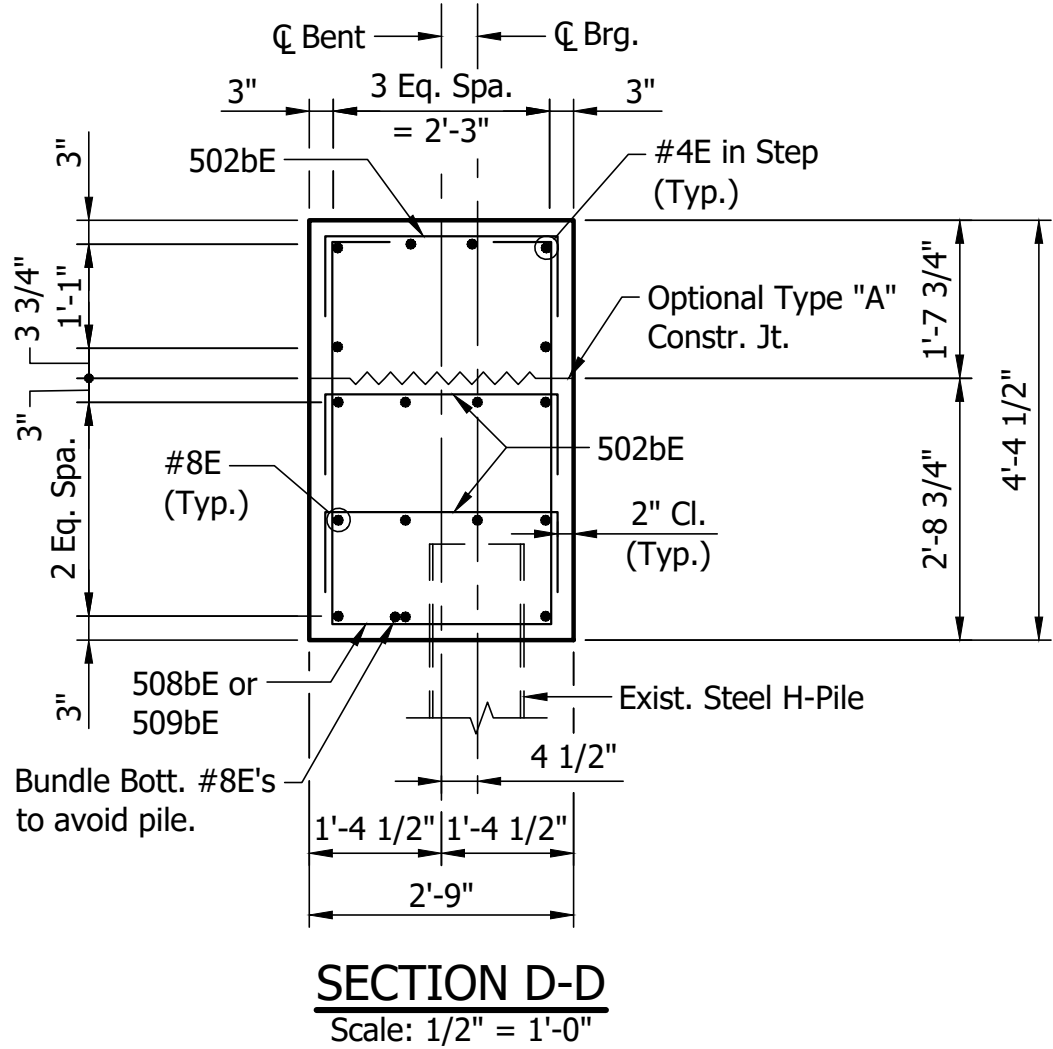
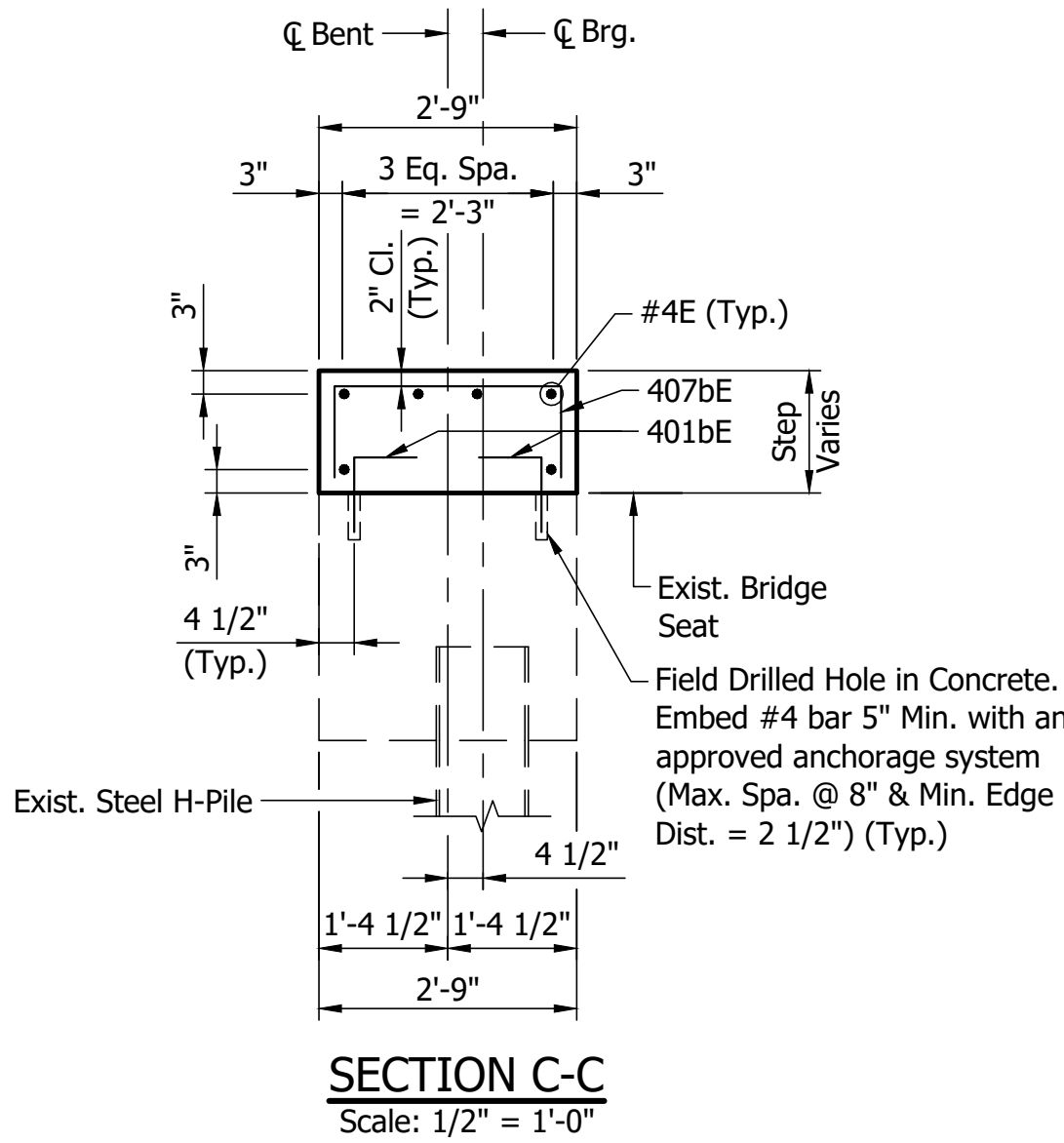
END BENT DETAILS
BENT NO. 1 - EASTBOUND LANES

HORIZONTAL SCALE		BRIDGE FILE	
AS NOTED		150-22-05230 CEB & CWB	
VERTICAL SCALE		DESIGNATION	
AS NOTED		2002072 & 2002073	
DRAWING NO.		SHEETS	
C12 of C38		31	of 68
CONTRACT		PROJECT	
R-45584		1900162	

BILL OF MATERIALS

BENT NO.1 - EBL

REINFORCING BARS			
SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
#8E	12	7'-1"	
Total #8E			227
502bE	25	4'-3"	
508bE	8	12'-7"	
509bE	1	5'-8"	
#5E	26	10'-8"	
#5E	30	6'-11"	
Total #5E			728
401bE	122	1'-8"	
403bE	5	3'-7"	
404bE	5	4'-6"	
407bE	61	4'-9"	
#4E	12	10'-10"	
#4E	4	10'-8"	
#4E	4	10'-1"	
#4E	2	9'-9"	
#4E	8	9'-8"	
#4E	2	6'-4"	
Total #4E			572
Total Epoxy Coated Reinforcing Bars			1527
CONCRETE			
Concrete Class "A" in Substructure			
Pour No.1			2.3 Cys
Pour No.2			10.7 Cys
Total Concrete Class "A" in Substructure			13.0 Cys
MISCELLANEOUS			
Field Drilled Hole in Concrete			122 Ea.
Surface Seal (Est. Quantity)			197 Sft
Foundation Excavation Unclassified			20 Cys



Notes:

For General Notes, see Dwg.C4.

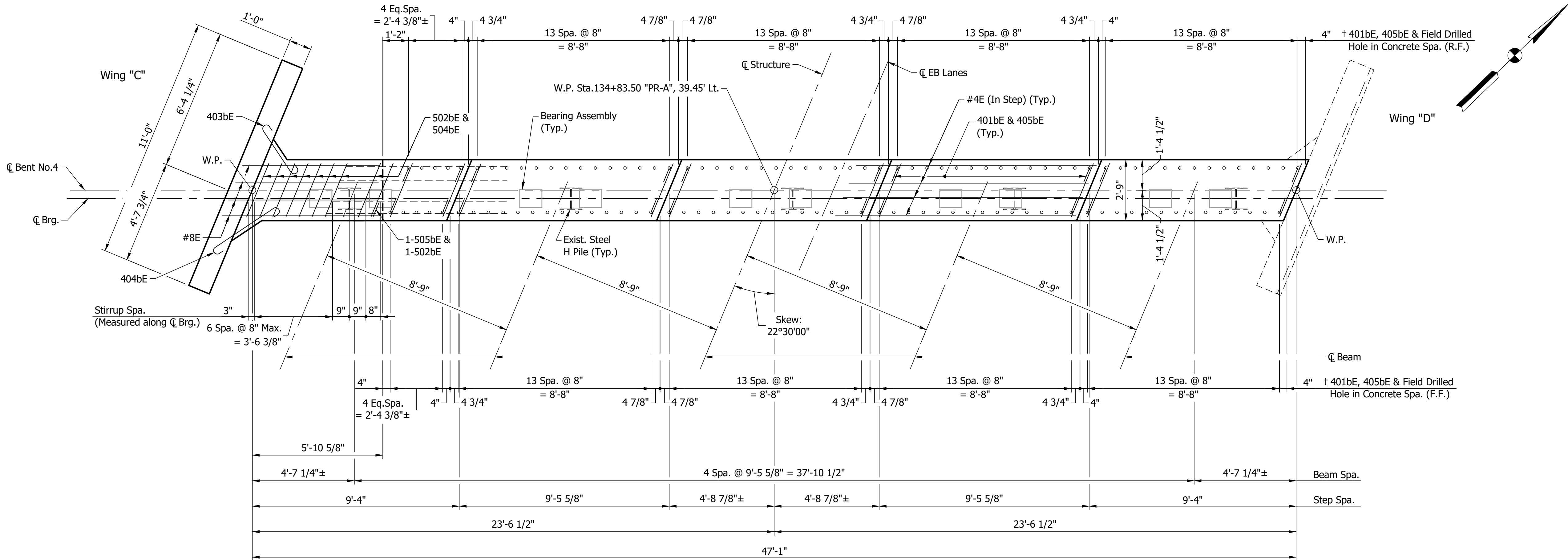
For Location of Section C-C & D-D, see Dwg.C12.

For Removal Details, see Dwg.C7.

For Type "A" Construction Joint, see Std.Dwg.No.E702-CJTA-01.

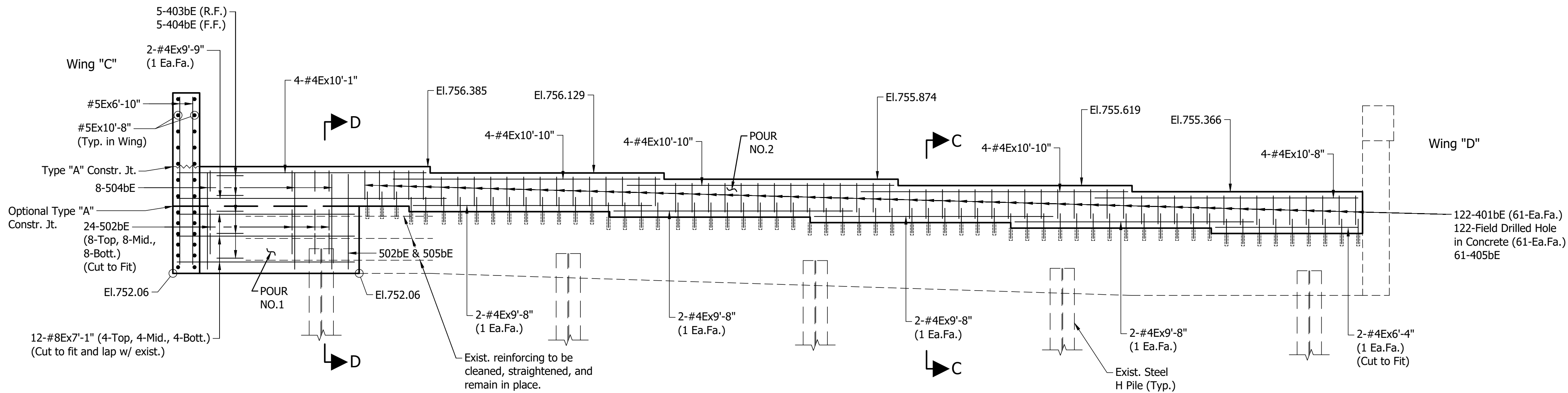
For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.

"E" denotes Epoxy Coated Reinforcing Steel.



PLAN
Scale: 3/8" = 1'-0"

† Field Drilled Holes in Concrete may be adjusted as needed to maintain Min. Edge Distance = 2 1/2" from existing bridge seat and Max. Spacing @ 8" between holes.



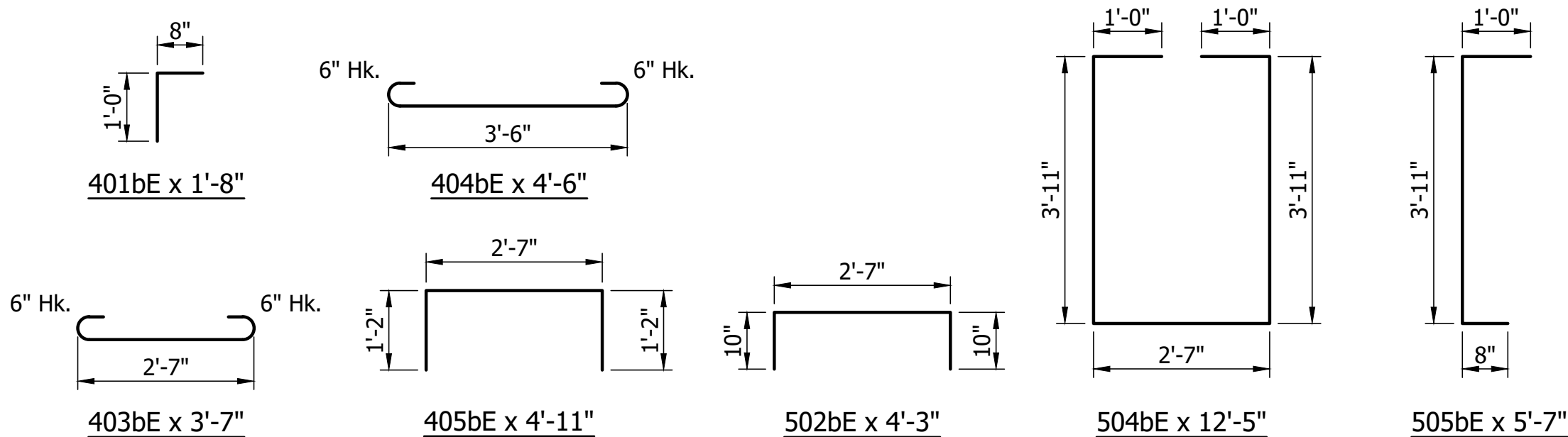
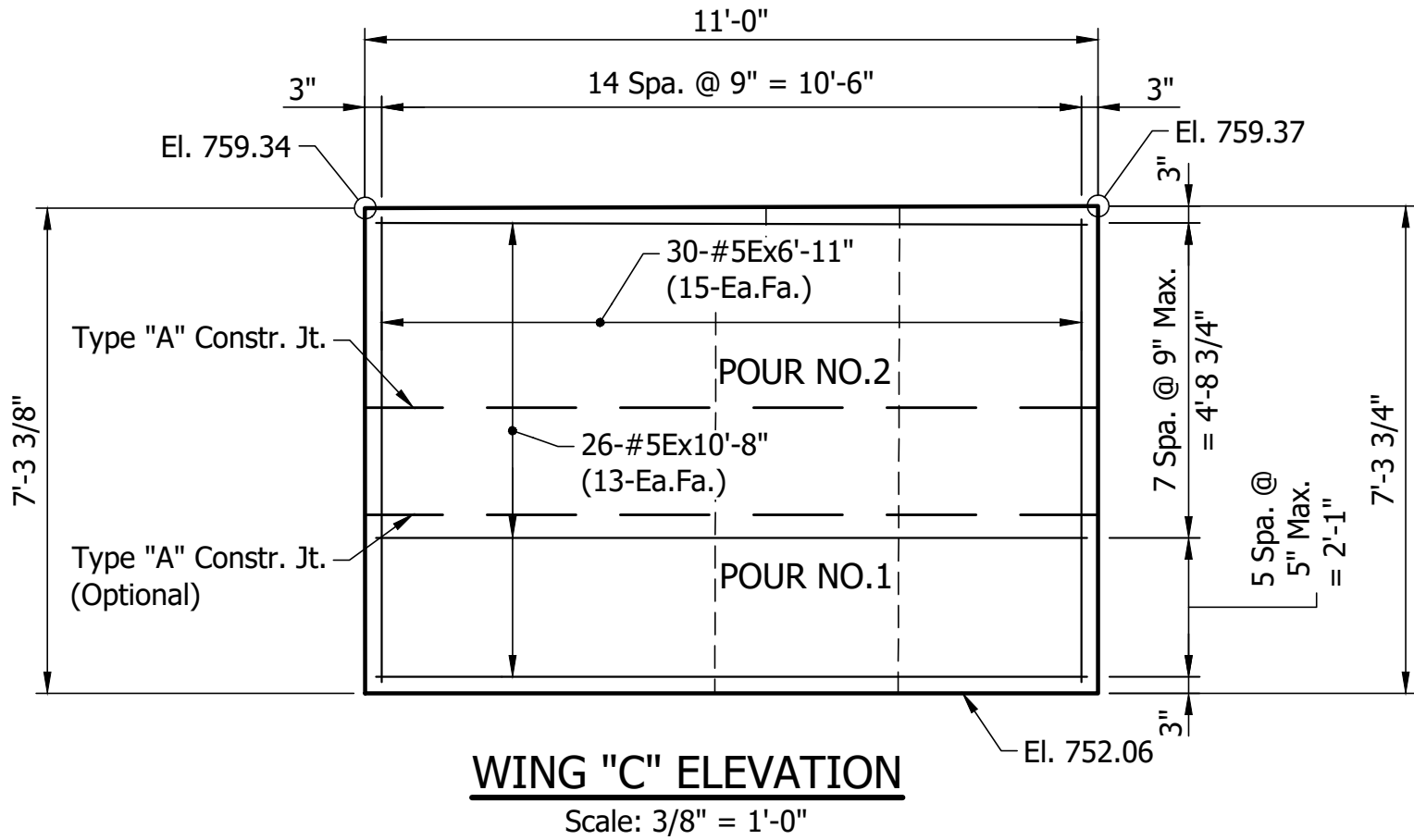
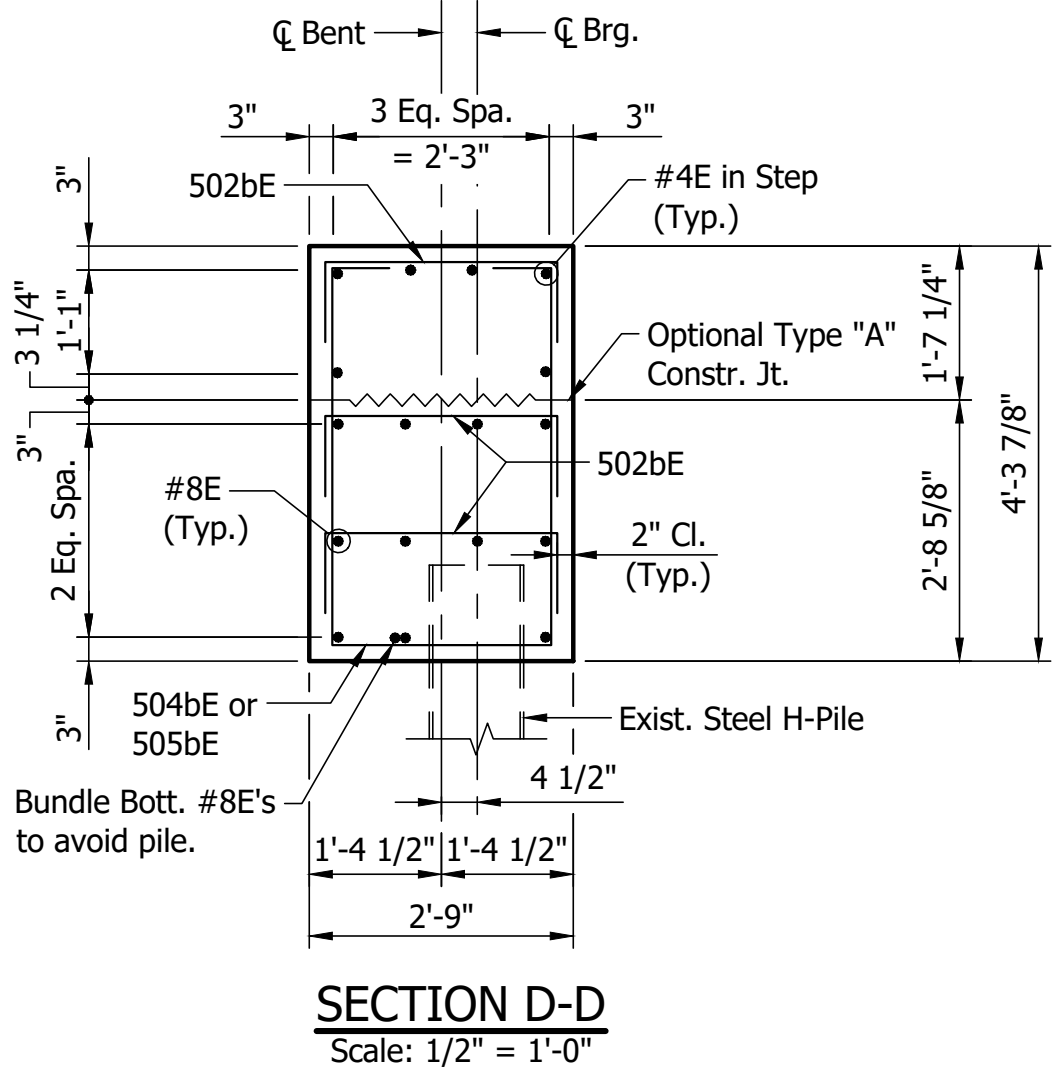
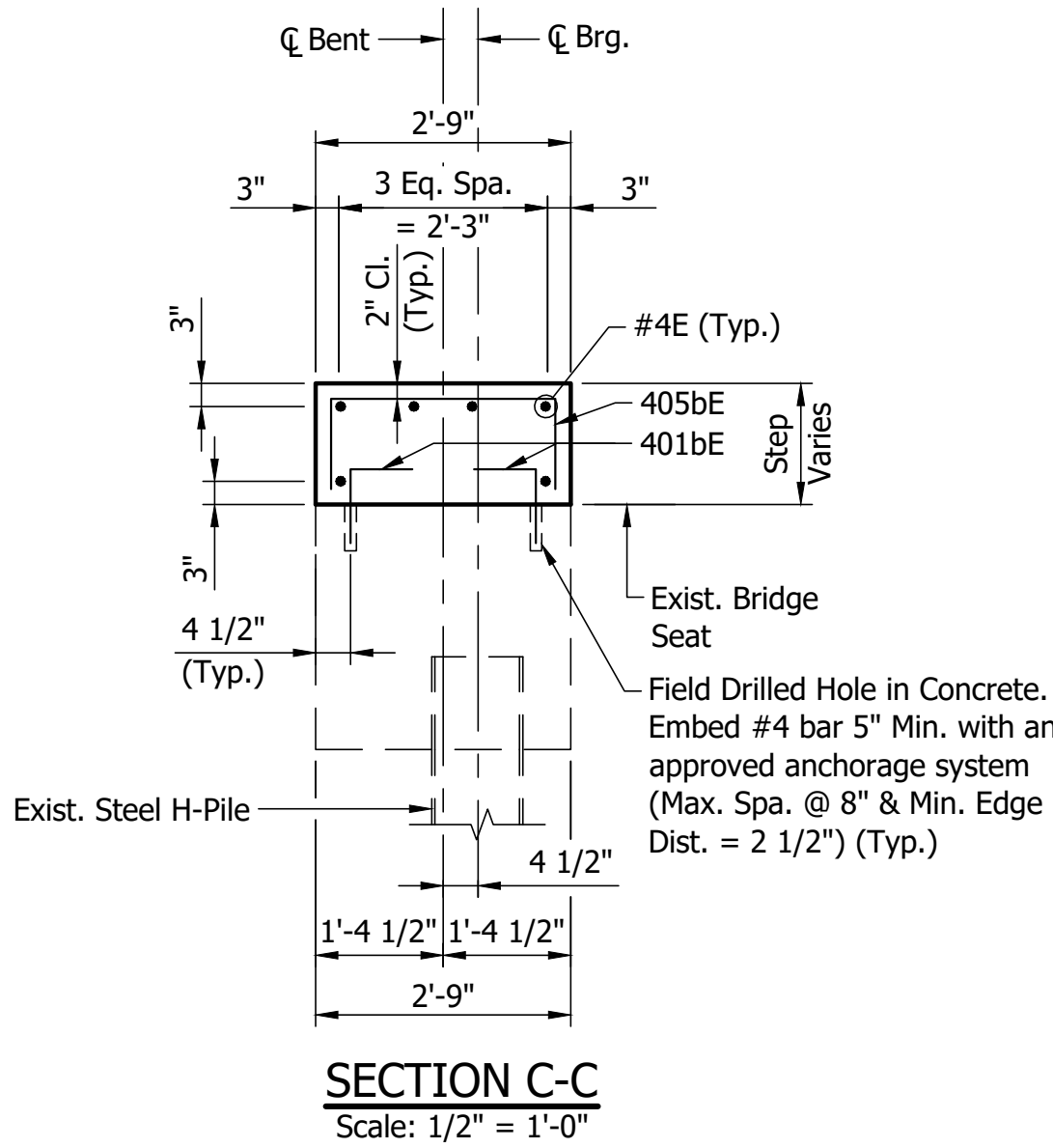
ELEVATION
Scale: 3/8" = 1'-0"

- Notes:
- For General Notes, see Dwg.C4.
 - For Section C-C & D-D, see Dwg.C15.
 - For Removal Details, see Dwg.C7.
 - For Wing Reconstruction Detail, see Dwg.C15.
 - For Type "A" Construction Joint, see Std.Dwg.No.E702-CJTA-01.
 - For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.
 - "E" denotes Epoxy Coated Reinforcing Steel.
 - For Bar Bending Diagrams and Bill of Materials, see Dwg.C15.

BILL OF MATERIALS

BENT NO.4 - EBL

REINFORCING BARS			
SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
#8E	12	7'-1"	
Total #8E			227
502bE	25	4'-3"	
504bE	8	12'-5"	
505bE	1	5'-7"	
#5E	26	10'-8"	
#5E	30	6'-11"	
Total #5E			726
401bE	122	1'-8"	
403bE	5	3'-7"	
404bE	5	4'-6"	
405bE	61	4'-11"	
#4E	12	10'-10"	
#4E	2	10'-8"	
#4E	4	10'-1"	
#4E	4	9'-9"	
#4E	8	9'-8"	
#4E	2	6'-4"	
Total #4E			577
Total Epoxy Coated Reinforcing Bars			1530
CONCRETE			
Concrete Class "A" in Substructure			
Pour No.1			2.4 Cys
Pour No.2			10.4 Cys
Total Concrete Class "A" in Substructure			12.8 Cys
MISCELLANEOUS			
Field Drilled Hole in Concrete			122 Ea.
Surface Seal (Est. Quantity)			197 Sft
Foundation Excavation Unclassified			20 Cys



Notes:

For General Notes, see Dwg.C4.

For Location of Section C-C & D-D, see Dwg.C14.

For Removal Details, see Dwg.C6.

For Backfill Details, see Dwg.C29.

For Bearing Assembly Details, see Dwg.C22.

For Type "A" Construction Joint, see Std.Dwg.No.E702-CJTA-01.

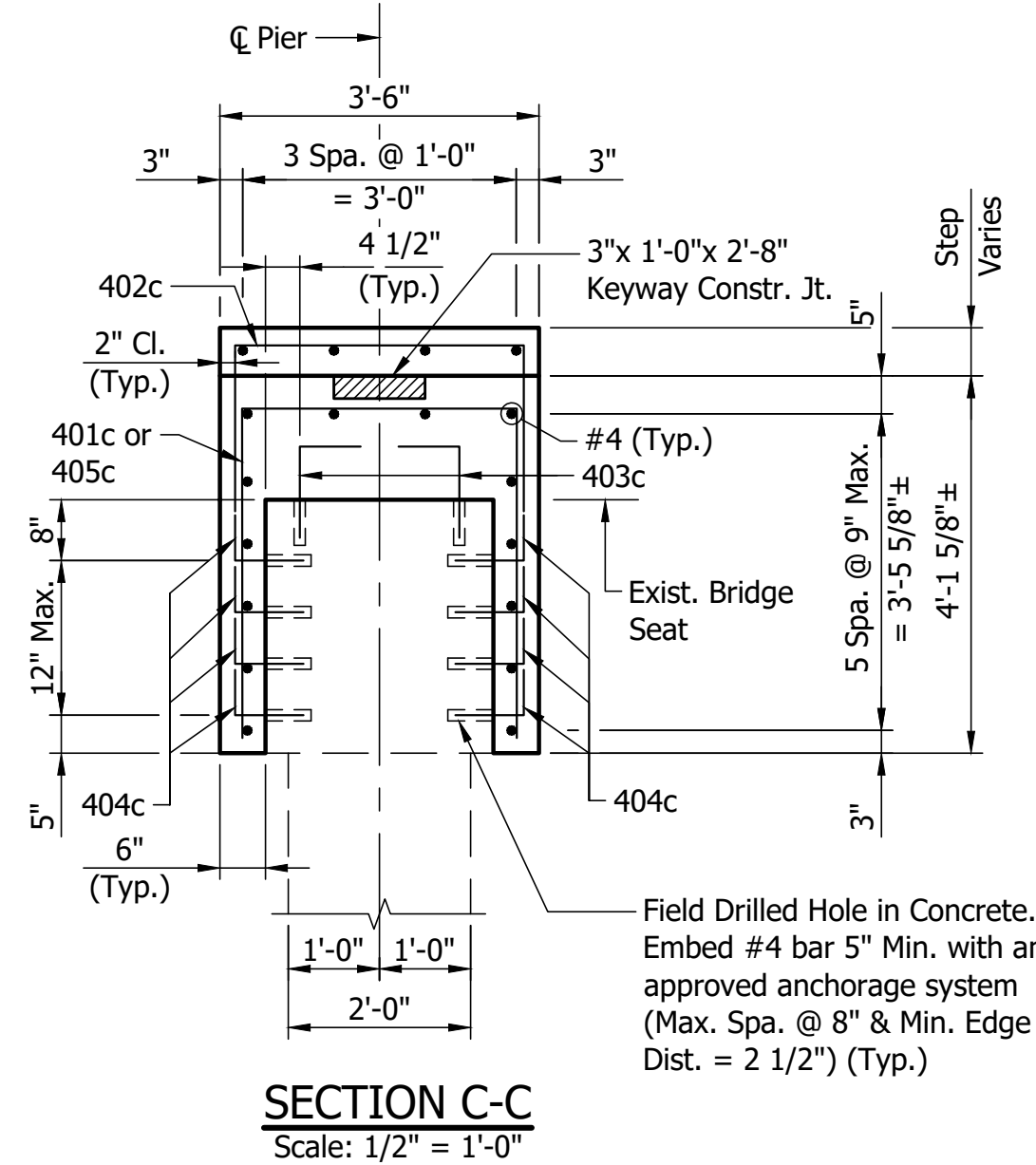
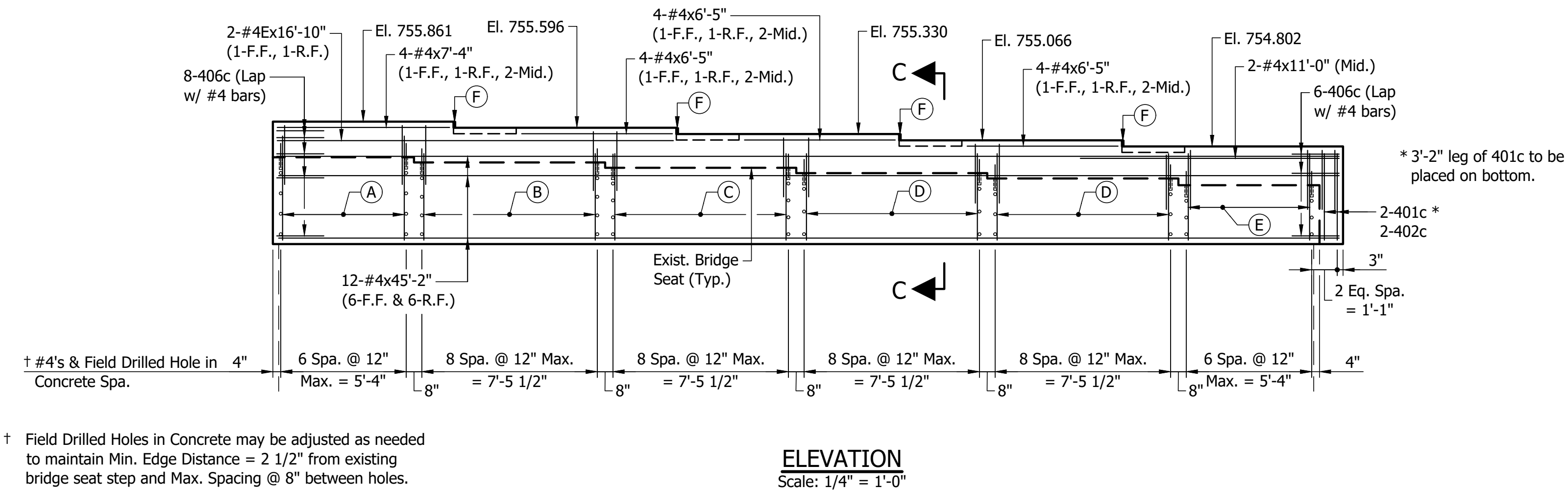
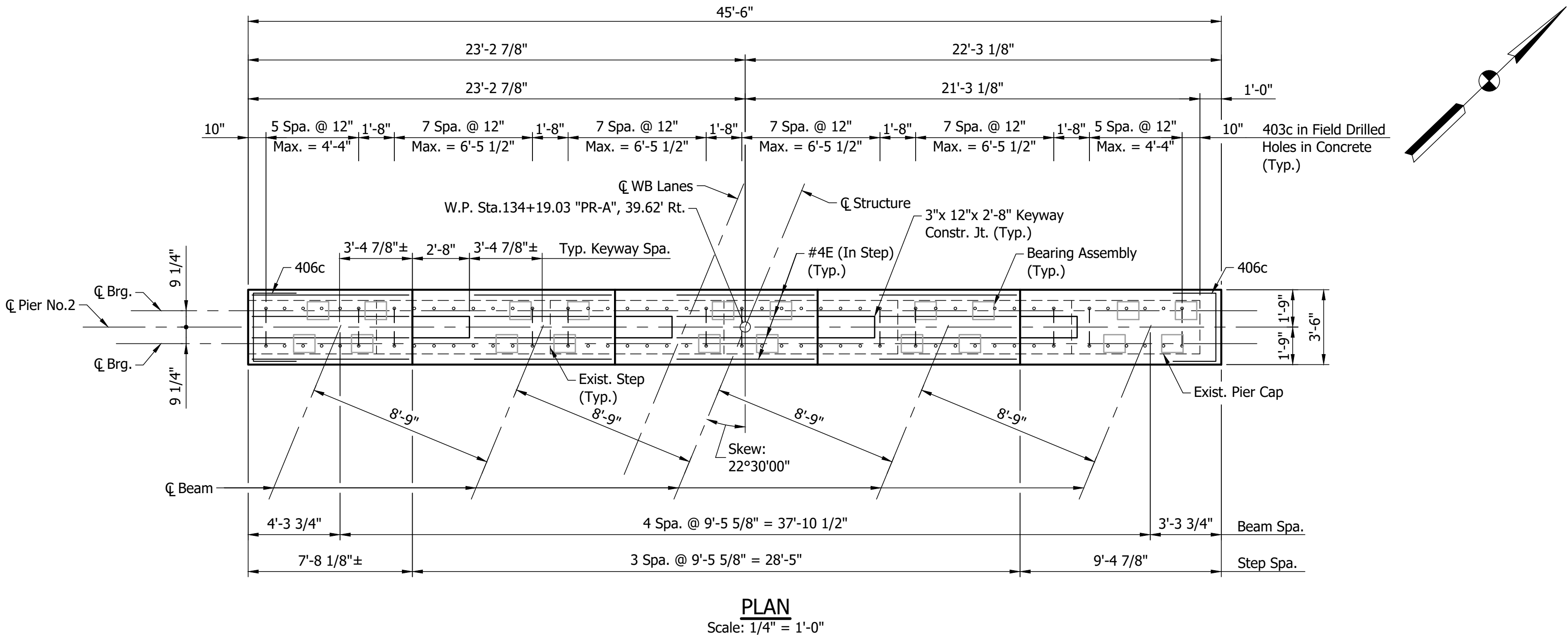
For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.

"E" denotes Epoxy Coated Reinforcing Steel.

BILL OF MATERIALS

PIER NO.2 - WBL

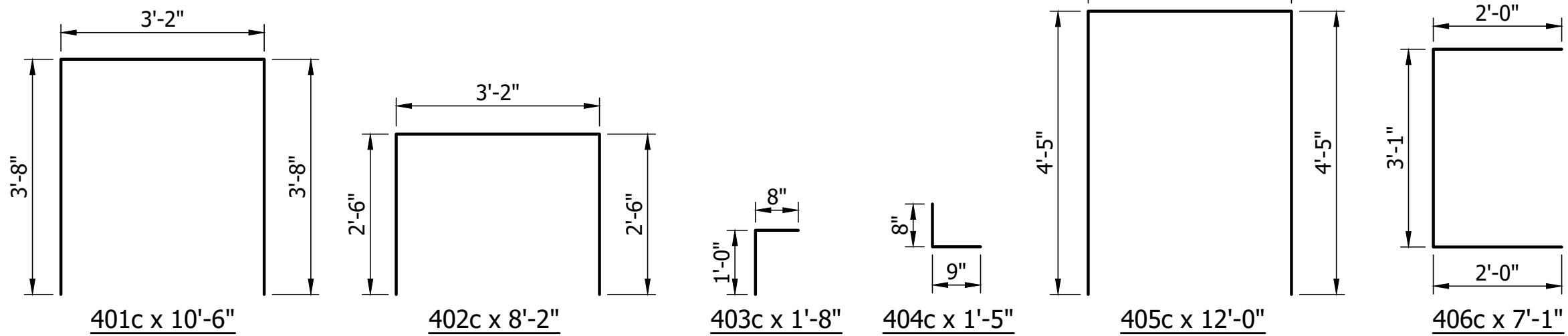
REINFORCING BARS			
SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
401c	45	10'-6"	
402c	52	8'-2"	
403c	88	1'-8"	
404c	350	1'-5"	
405c	7	12'-0"	
406c	14	7'-1"	
#4	12	45'-2"	
#4	2	16'-10"	
#4	2	11'-0"	
#4	4	7'-4"	
#4	12	6'-5"	
Total #4			1621
Total Reinforcing Bars			1621
CONCRETE			
Concrete Class "A" in Substructure			14.6 Cys
MISCELLANEOUS			
Field Drilled Hole in Concrete			438 Ea.
Patching Concrete Structures			10 Sft
Surface Seal (Est. Quantity)			12 Sft



† Field Drilled Holes in Concrete may be adjusted as needed to maintain Min. Edge Distance = 2 1/2" from existing bridge seat step and Max. Spacing @ 8" between holes.

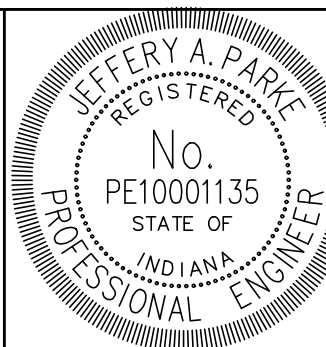
LEGEND

- | | |
|--|--|
| (A) 12-403c (Top)
56-404c (28-R.F., 28-F.F.)
68-Field Drilled Hole in Concrete
7-402c
7-405c | (D) 16-403c (Top)
54-404c (27-R.F., 27-F.F.)
70-Field Drilled Hole in Concrete
9-401c
9-402c |
| (B) 16-403c (Top)
72-404c (36-R.F., 36-F.F.)
88-Field Drilled Hole in Concrete
9-401c
9-402c | (E) 12-403c (Top)
42-404c (21-R.F., 21-F.F.)
54-Field Drilled Hole in Concrete
7-401c
7-402c |
| (C) 16-403c (Top)
72-404c (36-R.F., 36-F.F.)
88-Field Drilled Hole in Concrete
9-401c
9-402c | (F) Place 1" PEJF on vertical faces of Steps |



Notes:

- For General Notes, see Dwg.C4.
For Bearing Assembly Details, see Dwg.C22.
For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.



RECOMMENDED FOR APPROVAL

Jeffery A. Parke
DESIGN ENGINEER

9/16/2024
DATE

DESIGNED: AE

DRAWN: WLC

CHECKED: JAP

CHECKED: JAP

INDIANA
DEPARTMENT OF TRANSPORTATION

PIER DETAILS
PIER NO. 2 - WESTBOUND LANES

HORIZONTAL SCALE

AS NOTED

VERTICAL SCALE

AS NOTED

BRIDGE FILE

150-22-05230 CEB & CWB

DESIGNATION

2002072 & 2002073

DRAWING NO.

C16 of C38

CONTRACT

R-45584

SHEETS

35 of 68

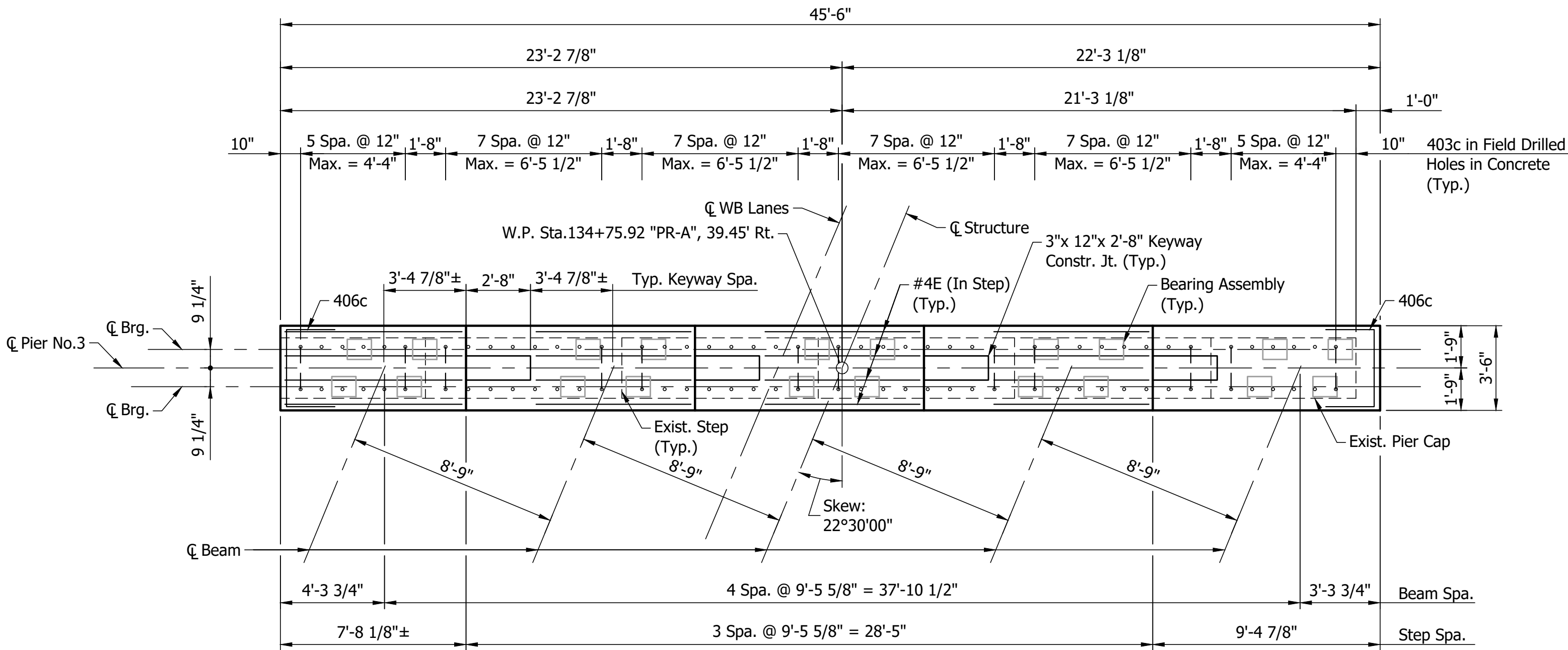
PROJECT

1900162

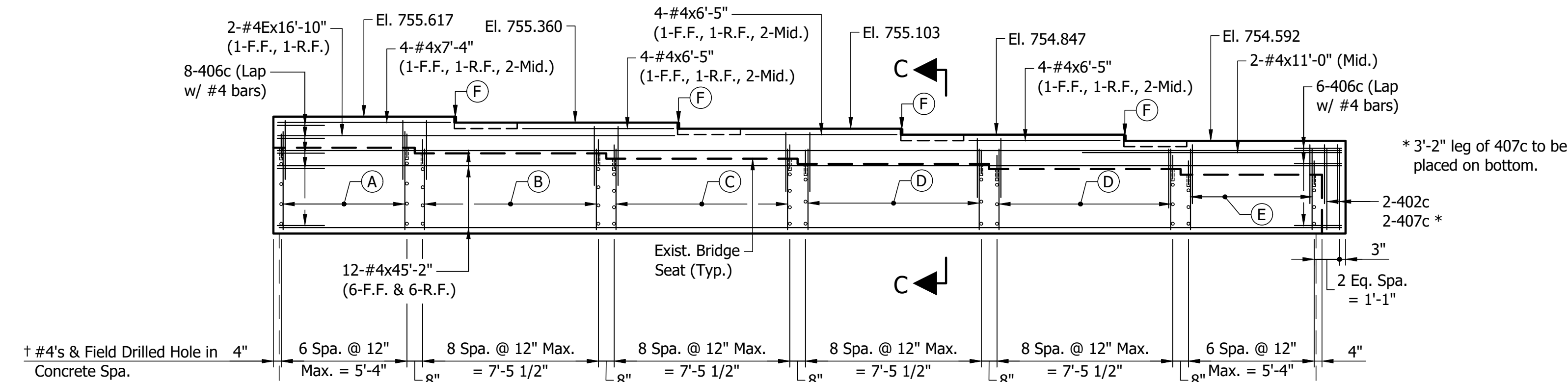
BILL OF MATERIALS

PIER NO.3 - WBL

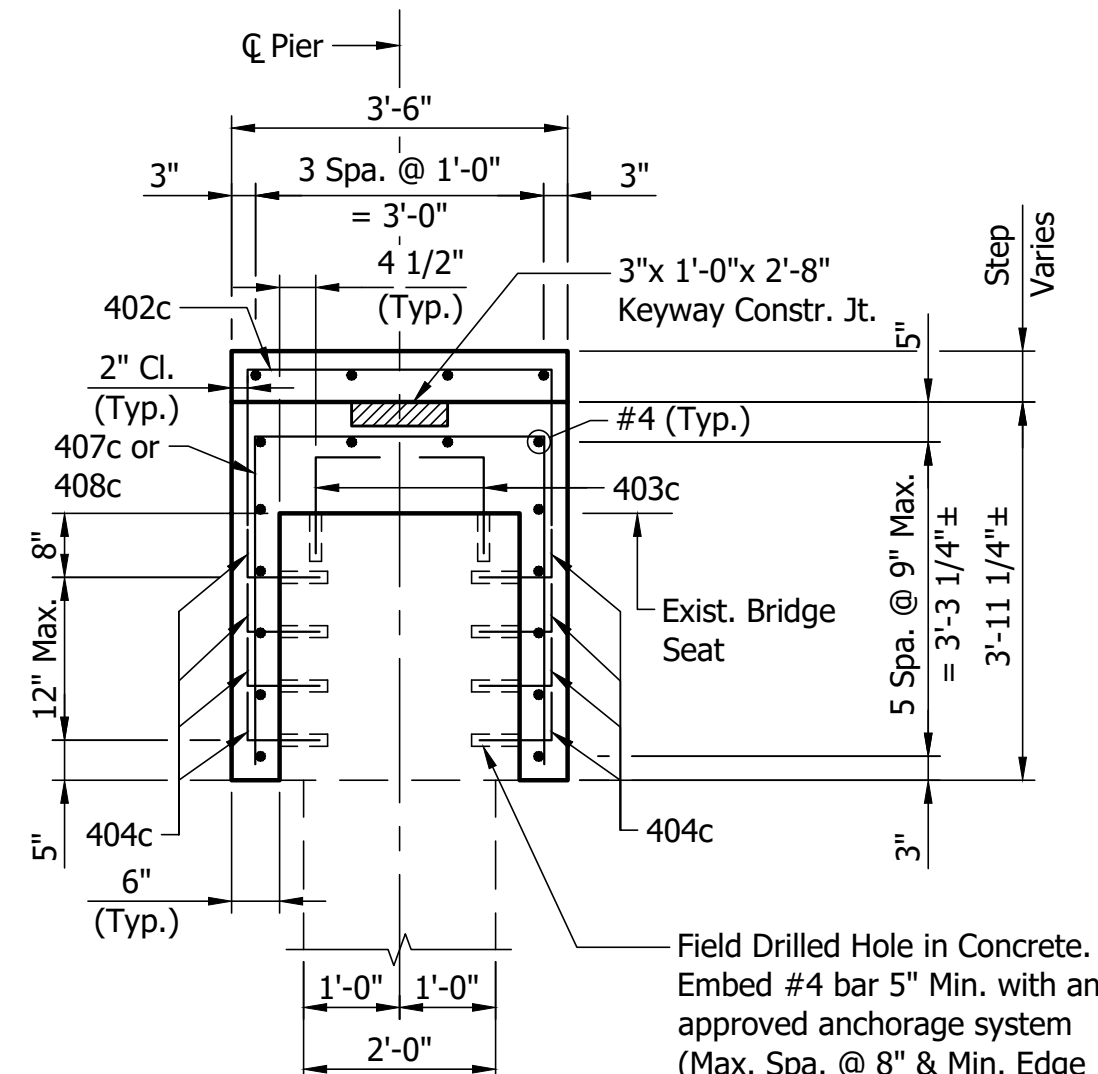
REINFORCING BARS			
SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
402c	52	8'-2"	
403c	88	1'-8"	
404c	350	1'-5"	
406c	14	7'-1"	
407c	45	10'-0"	
408c	7	11'-6"	
#4	12	45'-2"	
#4	2	16'-10"	
#4	2	11'-0"	
#4	4	7'-4"	
#4	12	6'-5"	
Total #4			1604
Total Reinforcing Bars			1604
CONCRETE			
Concrete Class "A" in Substructure			13.4 Cys
MISCELLANEOUS			
Field Drilled Hole in Concrete			438 Ea.
Patching Concrete Structures			10 Sft
Surface Seal (Est. Quantity)			12 Sft



PLAN
Scale: 1/4" = 1'-0"



ELEVATION
Scale: 1/4" = 1'-0"

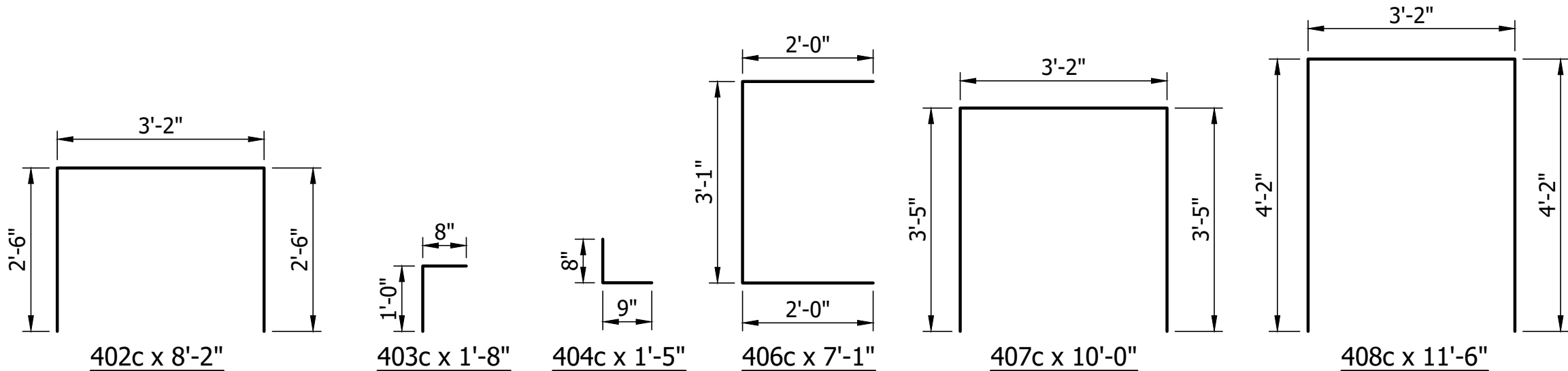


SECTION C-C
Scale: 1/2" = 1'-0"

† Field Drilled Holes in Concrete may be adjusted as needed to maintain Min. Edge Distance = 2 1/2" from existing bridge seat step and Max. Spacing @ 8" between holes.

LEGEND

- | | |
|--|--|
| (A) 12-403c (Top)
56-404c (28-R.F., 28-F.F.)
68-Field Drilled Hole in Concrete
7-402c
7-408c | (D) 16-403c (Top)
54-404c (27-R.F., 27-F.F.)
70-Field Drilled Hole in Concrete
9-402c
9-407c |
| (B) 16-403c (Top)
72-404c (36-R.F., 36-F.F.)
88-Field Drilled Hole in Concrete
9-402c
9-407c | (E) 12-403c (Top)
42-404c (21-R.F., 21-F.F.)
54-Field Drilled Hole in Concrete
7-402c
7-407c |
| (C) 16-403c (Top)
72-404c (36-R.F., 36-F.F.)
88-Field Drilled Hole in Concrete
9-402c
9-407c | (F) Place 1" PEJF on vertical faces of Steps |



Notes:

- For General Notes, see Dwg.C4.
For Bearing Assembly Details, see Dwg.C22.
For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.



RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	9/16/2024
DESIGNED: AE	DRAWN: WLC	
CHECKED: JAP	CHECKED: JAP	

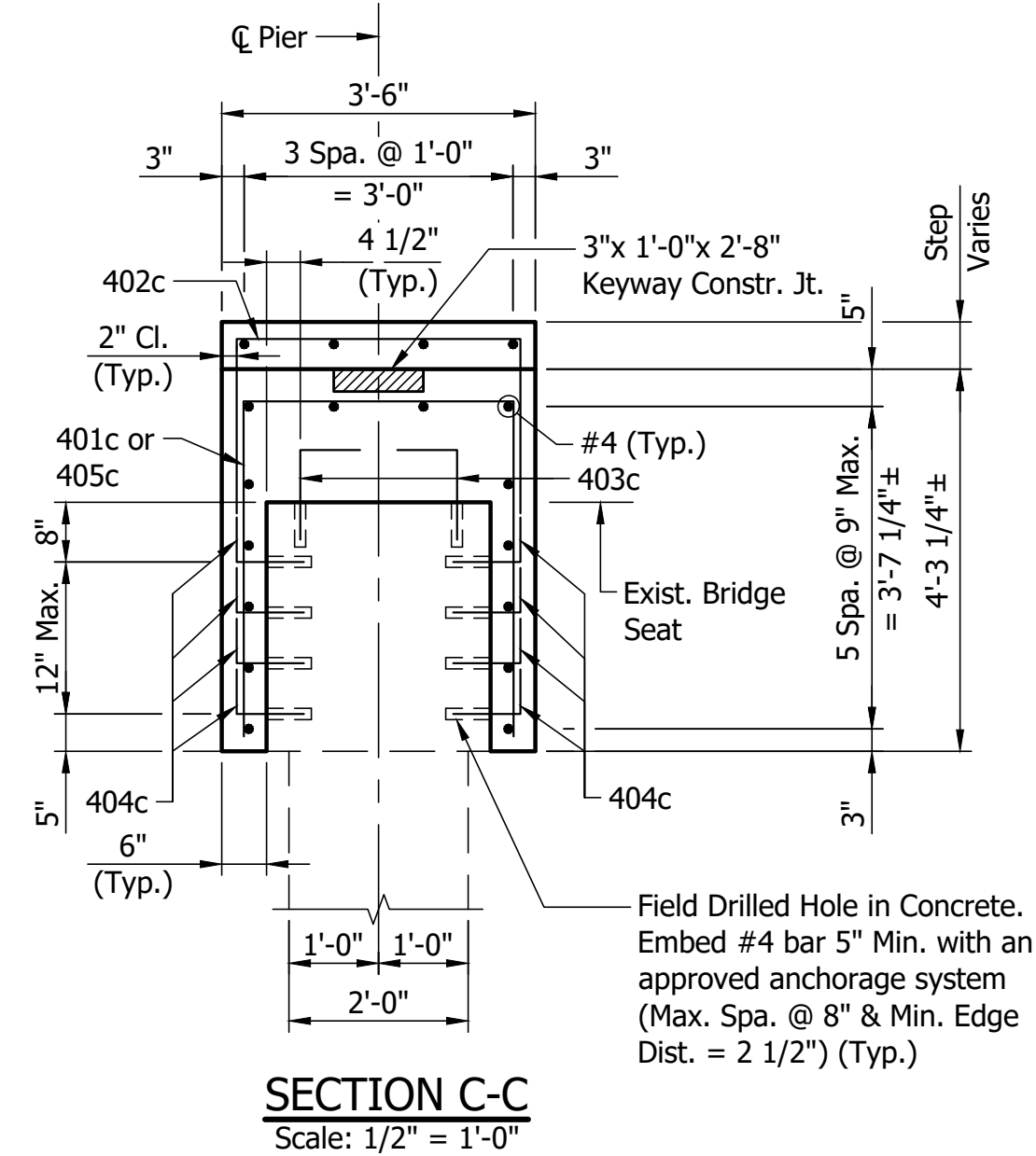
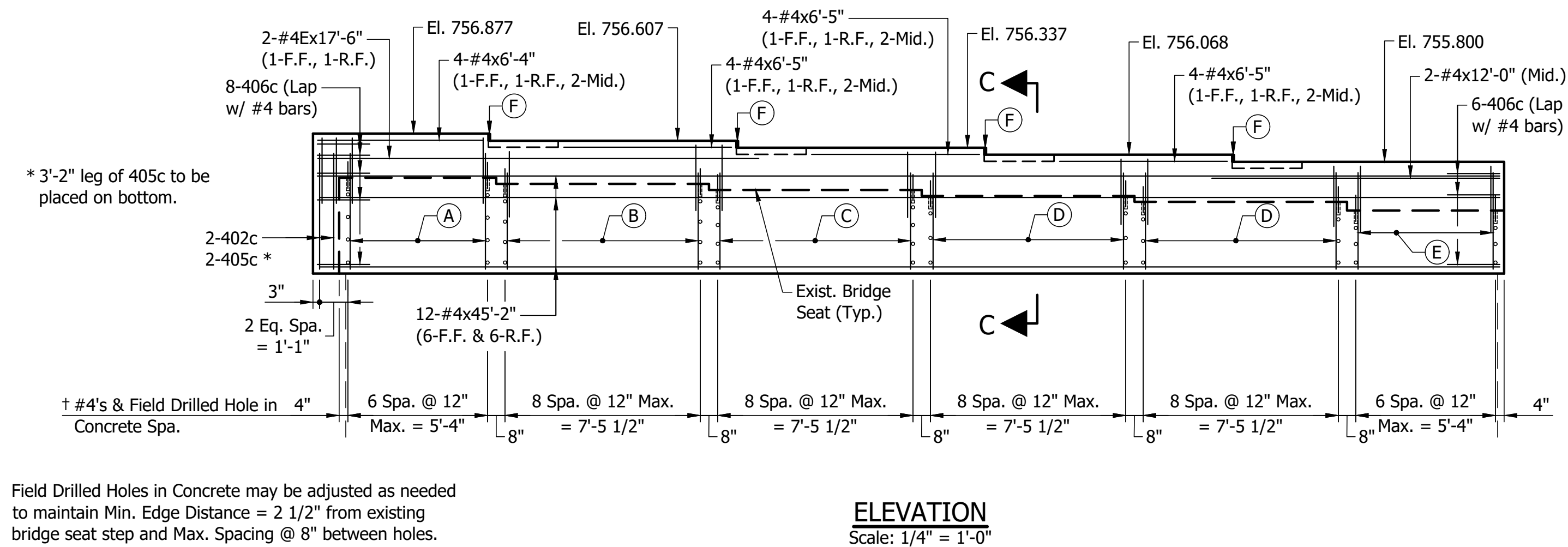
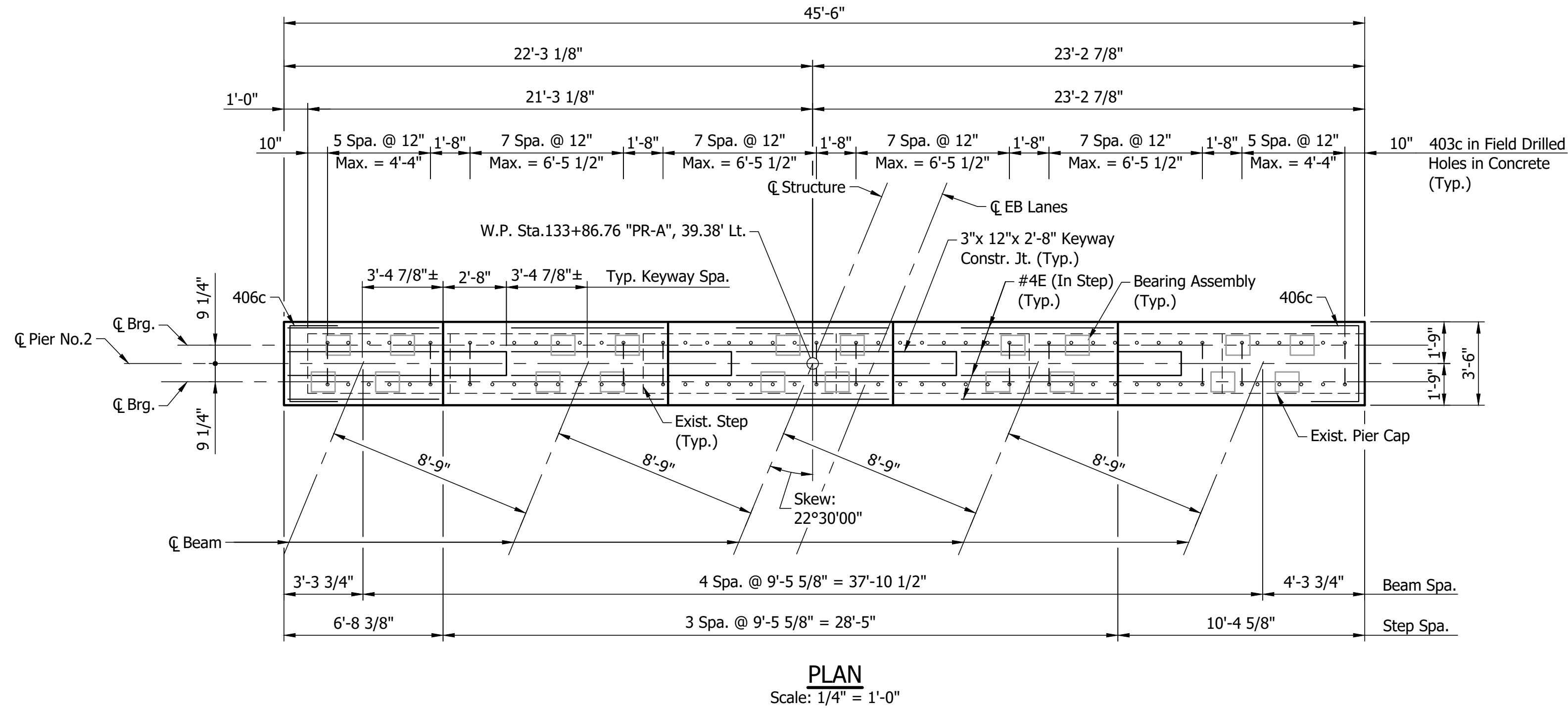
INDIANA
DEPARTMENT OF TRANSPORTATION

PIER DETAILS
PIER NO. 3 - WESTBOUND LANES

HORIZONTAL SCALE		BRIDGE FILE	
AS NOTED		150-22-05230 CEB & CWB	
VERTICAL SCALE		DESIGNATION	
AS NOTED		2002072 & 2002073	
DRAWING NO.		SHEETS	
C17 of C38		36	of 68
CONTRACT		PROJECT	
R-45584		1900162	

BILL OF MATERIALS

PIER NO.2 - EBL			
REINFORCING BARS			
SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
401c	43	10'-6"	
402c	52	8'-2"	
403c	88	1'-8"	
404c	350	1'-5"	
405c	9	12'-0"	
406c	14	7'-1"	
#4	12	45'-2"	
#4	2	17'-6"	
#4	2	12'-0"	
#4	12	6'-5"	
#4	4	6'-4"	
Total #4			1622
Total Reinforcing Bars			1622
CONCRETE			
Concrete Class "A" in Substructure			15.3 Cys
MISCELLANEOUS			
Field Drilled Hole in Concrete			438 Ea.
Patching Concrete Structures			10 Sft
Surface Seal (Est. Quantity)			12 Sft

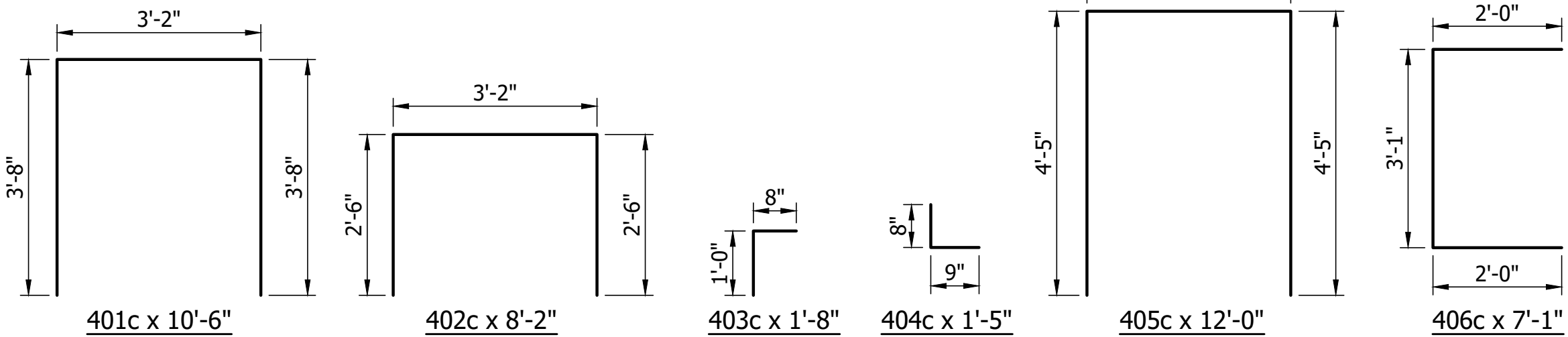


† Field Drilled Holes in Concrete may be adjusted as needed to maintain Min. Edge Distance = 2 1/2" from existing bridge seat step and Max. Spacing @ 8" between holes.

ELEVATION
Scale: 1/4" = 1'-0"

LEGEND

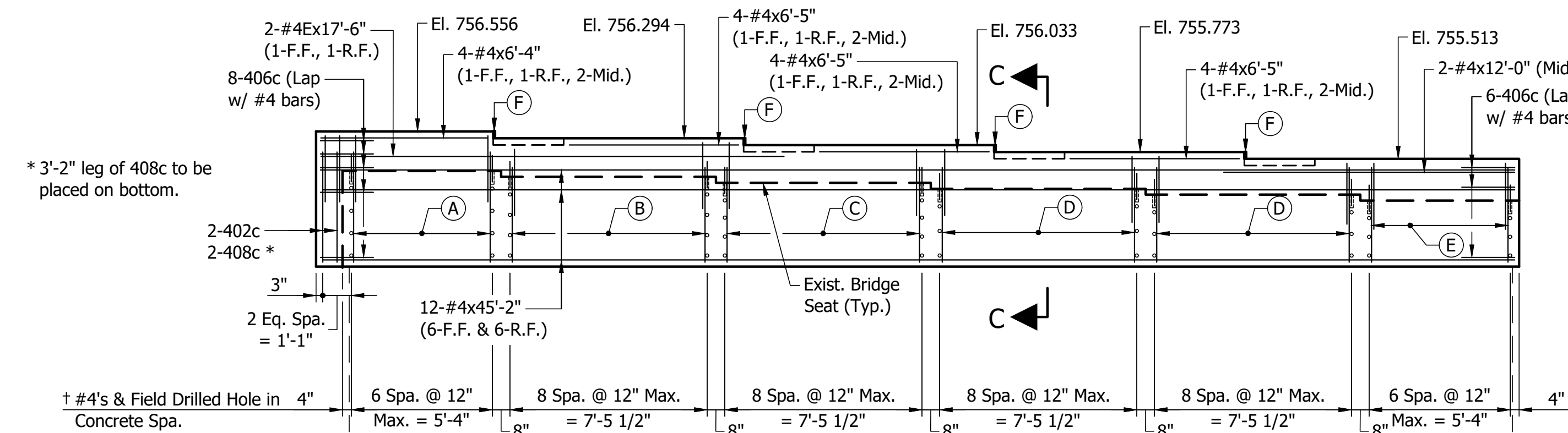
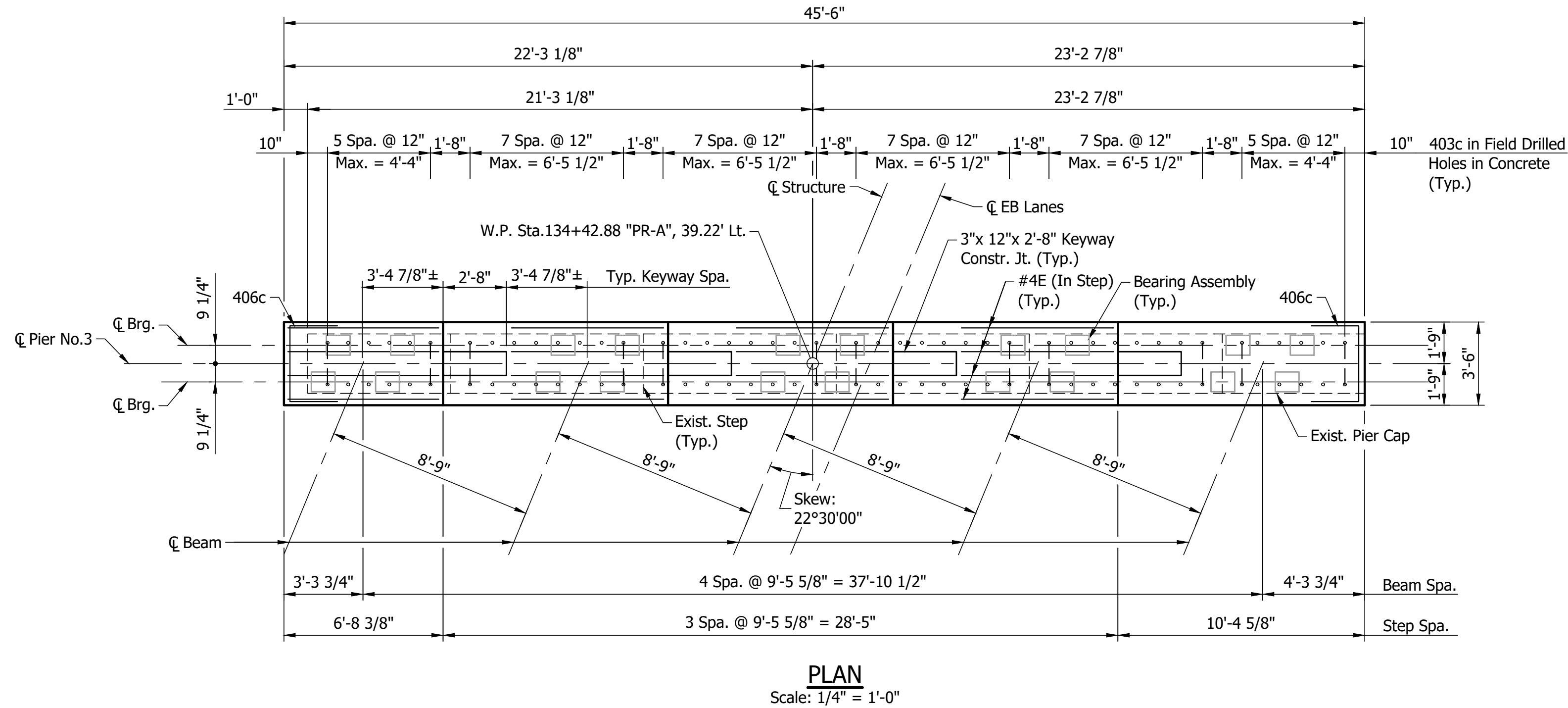
- (A) 12-403c (Top)
56-404c (28-R.F., 28-F.F.)
68-Field Drilled Hole in Concrete
7-402c
7-405c
- (B) 16-403c (Top)
72-404c (36-R.F., 36-F.F.)
88-Field Drilled Hole in Concrete
9-401c
9-402c
- (C) 16-403c (Top)
72-404c (36-R.F., 36-F.F.)
88-Field Drilled Hole in Concrete
9-401c
9-402c
- (D) 16-403c (Top)
54-404c (27-R.F., 27-F.F.)
70-Field Drilled Hole in Concrete
9-401c
9-402c
- (E) 12-403c (Top)
42-404c (21-R.F., 21-F.F.)
54-Field Drilled Hole in Concrete
7-401c
7-402c
- (F) Place 1" PEJF on vertical faces of Steps



Notes:
For General Notes, see Dwg.C4.
For Bearing Assembly Details, see Dwg.C22.
For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.

BILL OF MATERIALS

PIER NO.3 - EBL			
REINFORCING BARS			
SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
402c	52	8'-2"	
403c	88	1'-8"	
404c	350	1'-5"	
406c	14	7'-1"	
408c	9	11'-6"	
409c	43	10'-4"	
#4	12	45'-2"	
#4	2	17'-6"	
#4	2	12'-0"	
#4	12	6'-5"	
#4	4	6'-4"	
Total #4			1614
Total Reinforcing Bars			1614
CONCRETE			
Concrete Class "A" in Substructure			14.1 Cys
MISCELLANEOUS			
Field Drilled Hole in Concrete			438 Ea.
Patching Concrete Structures			10 Sft
Surface Seal (Est. Quantity)			12 Sft

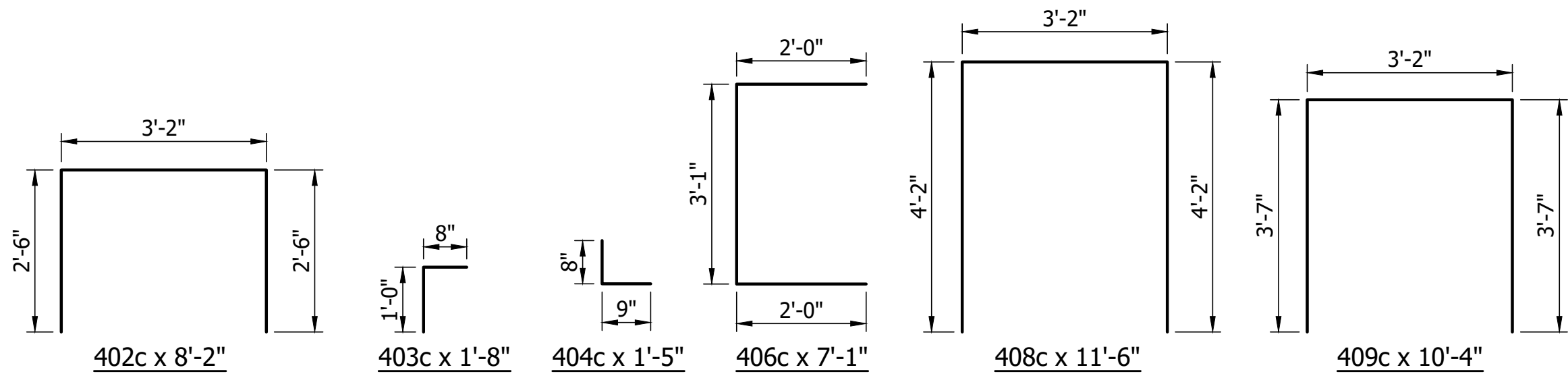


† Field Drilled Holes in Concrete may be adjusted as needed to maintain Min. Edge Distance = 2 1/2" from existing bridge seat step and Max. Spacing @ 8" between holes.

ELEVATION
Scale: 1/4" = 1'-0"

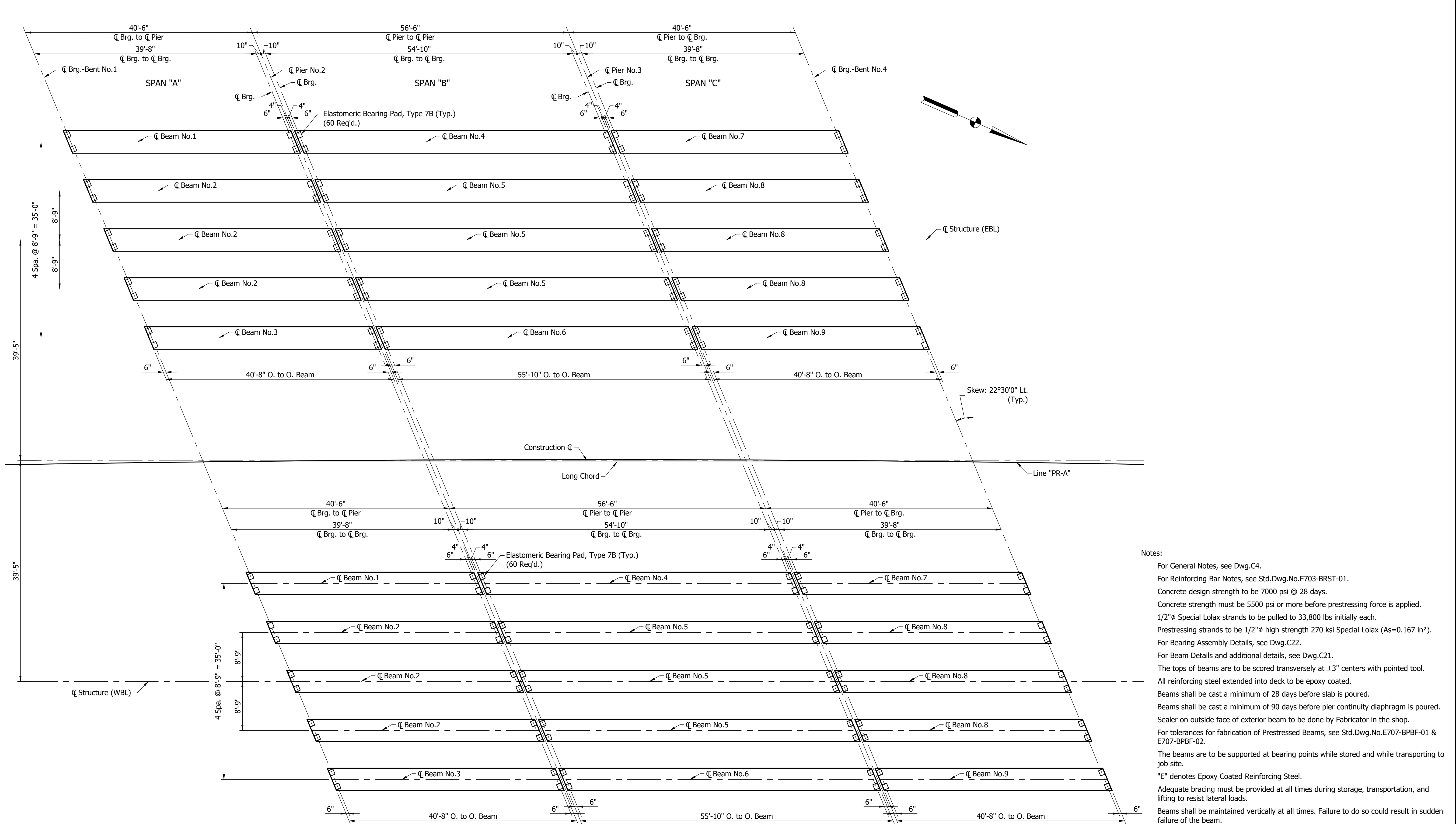
LEGEND

- (A) 12-403c (Top)
56-404c (23-R.F., 23-F.F.)
68-Field Drilled Hole in Concrete
7-402c
7-408c
- (B) 16-403c (Top)
72-404c (36-R.F., 36-F.F.)
88-Field Drilled Hole in Concrete
9-402c
9-409c
- (C) 16-403c (Top)
72-404c (36-R.F., 36-F.F.)
88-Field Drilled Hole in Concrete
9-402c
9-409c
- (D) 16-403c (Top)
54-404c (27-R.F., 27-F.F.)
70-Field Drilled Hole in Concrete
9-402c
9-409c
- (E) 12-403c (Top)
42-404c (21-R.F., 21-F.F.)
54-Field Drilled Hole in Concrete
7-402c
7-409c
- (F) Place 1" PEJF on vertical faces of Steps



SECTION C-C
Scale: 1/2" = 1'-0"

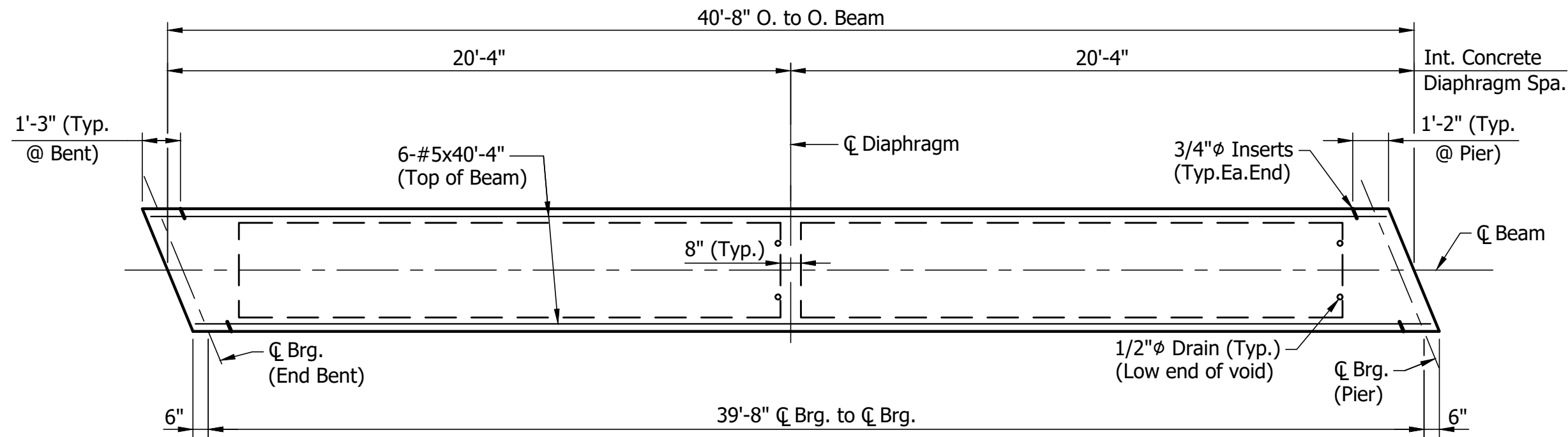
Notes:
For General Notes, see Dwg.C4.
For Bearing Assembly Details, see Dwg.C22.
For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.



FRAMING PLAN
Scale: 1/8" = 1'-0"

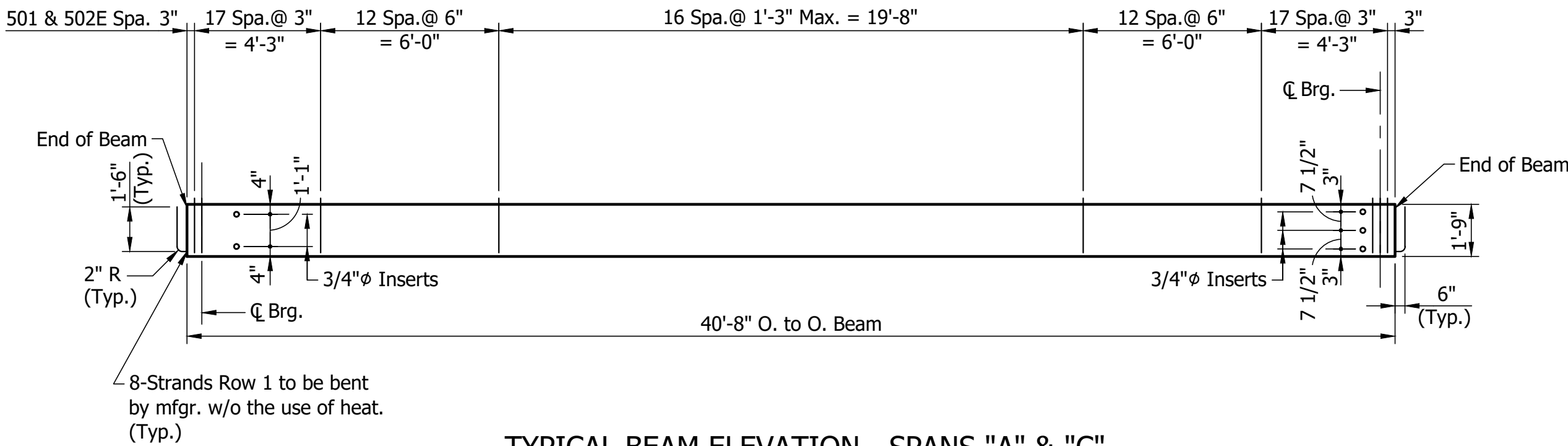
- Notes:
- For General Notes, see Dwg.C4.
 - For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.
 - Concrete design strength to be 7000 psi @ 28 days.
 - Concrete strength must be 5500 psi or more before prestressing force is applied.
 - 1/2"Ø Special Lolax strands to be pulled to 33,800 lbs initially each.
 - Prestressing strands to be 1/2"Ø high strength 270 ksi Special Lolax (As=0.167 in²).
 - For Bearing Assembly Details, see Dwg.C22.
 - For Beam Details and additional details, see Dwg.C21.
 - The tops of beams are to be scored transversely at ±3" centers with pointed tool.
 - All reinforcing steel extended into deck to be epoxy coated.
 - Beams shall be cast a minimum of 28 days before slab is poured.
 - Beams shall be cast a minimum of 90 days before pier continuity diaphragm is poured.
 - Sealer on outside face of exterior beam to be done by Fabricator in the shop.
 - For tolerances for fabrication of Prestressed Beams, see Std.Dwg.No.E707-BPBF-01 & E707-BPBF-02.
 - The beams are to be supported at bearing points while stored and while transporting to job site.
 - "E" denotes Epoxy Coated Reinforcing Steel.
 - Adequate bracing must be provided at all times during storage, transportation, and lifting to resist lateral loads.
 - Beams shall be maintained vertically at all times. Failure to do so could result in sudden failure of the beam.
 - For Tie Up Diagram, see Dwg.C5.

	RECOMMENDED FOR APPROVAL <i>Jeffery A. Parke</i> 9/16/2024 DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1/8" = 1'-0"		BRIDGE FILE 150-22-05230 CEB & CWB	
	DESIGNED: AE		DRAWN: WLC		VERTICAL SCALE 1/8" = 1'-0"		DESIGNATION 2002072 & 2002073	
	CHECKED: JAP		CHECKED: JAP		DRAWING NO. C20 of C38		SHEETS 39 of 68	
					CONTRACT R-45584		PROJECT 1900162	
					FRAMING PLAN			



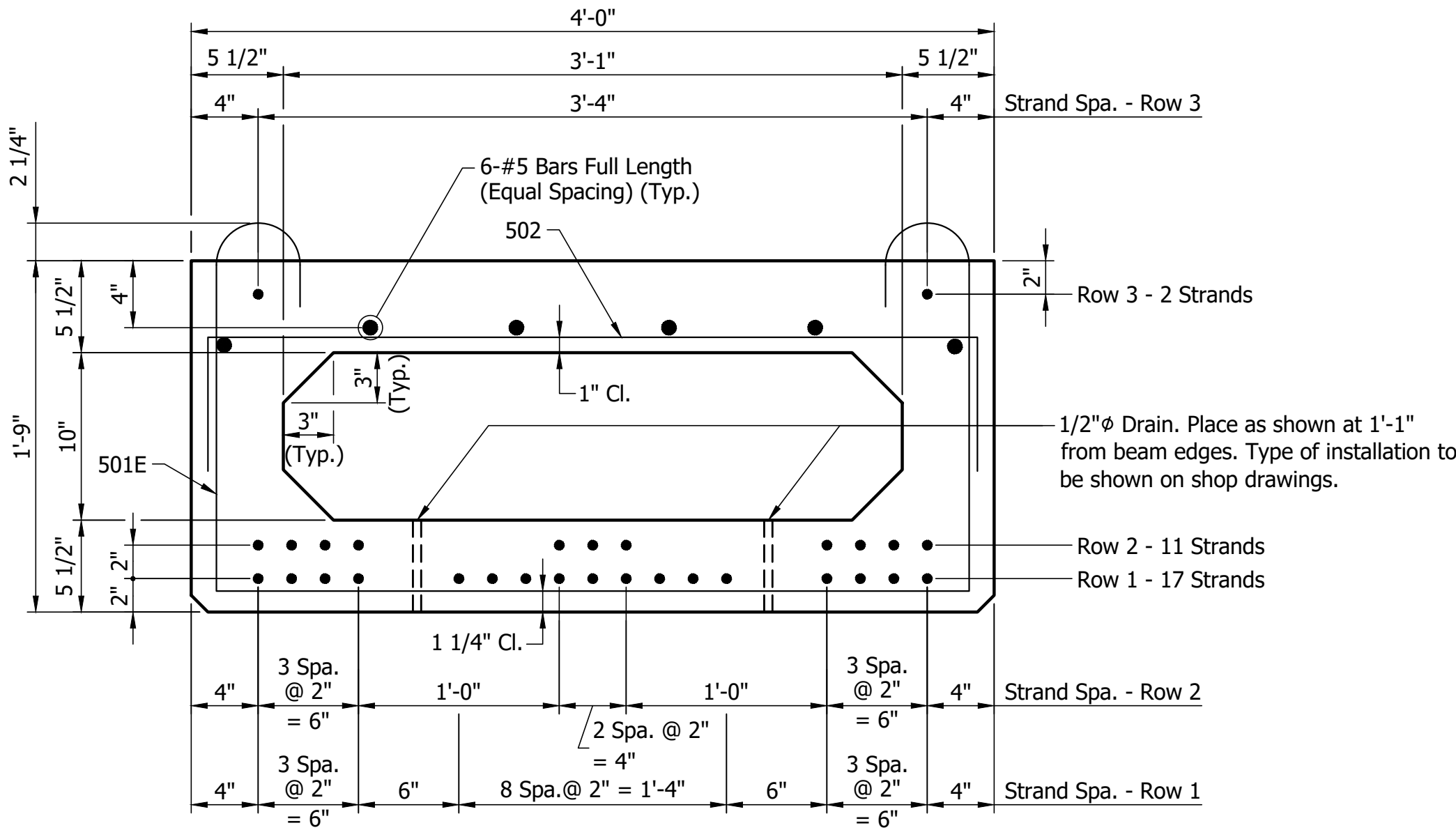
TYPICAL BEAM PLAN - SPANS "A" & "C"

Scale: 1/4"=1'-0"



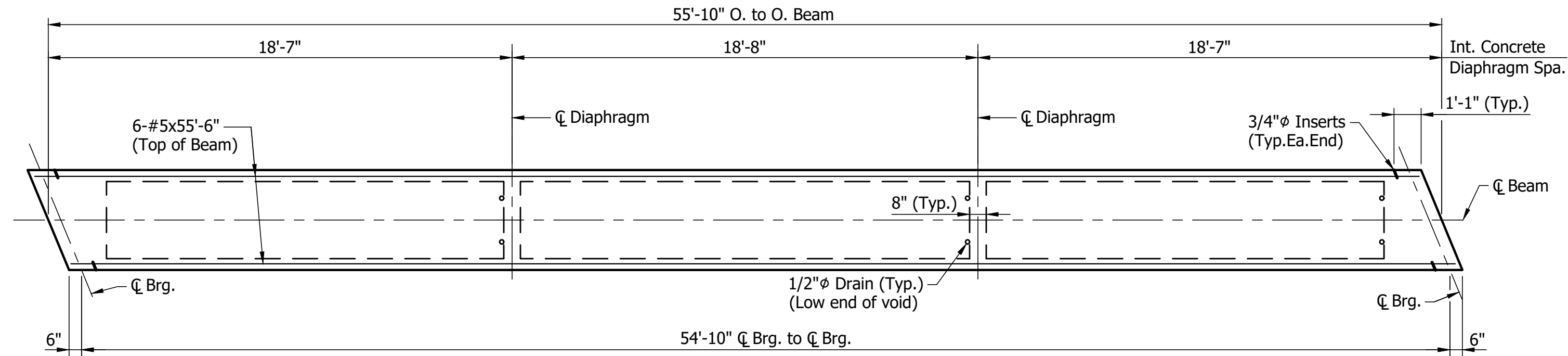
TYPICAL BEAM ELEVATION - SPANS "A" & "C"

Scale: 1/4"=1'-0"



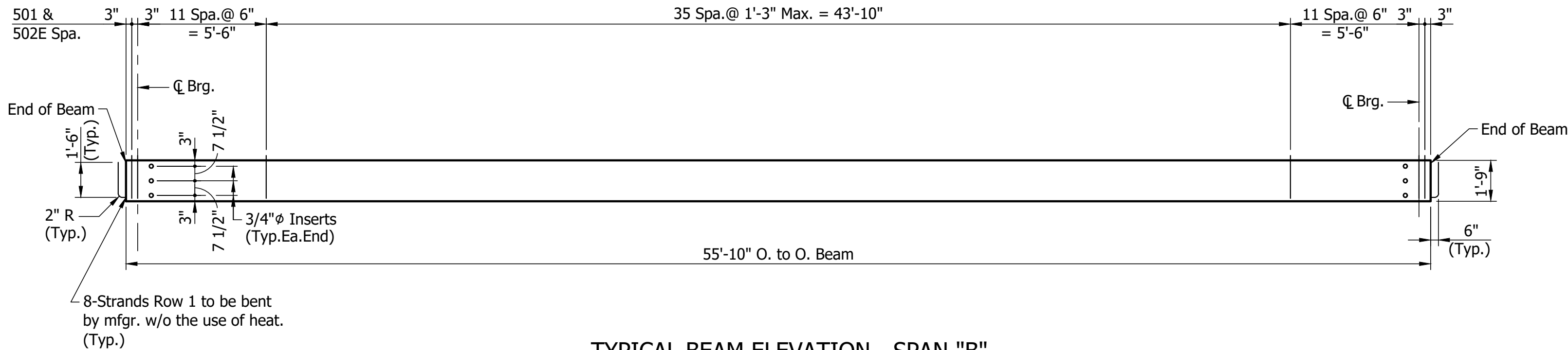
TYPICAL SECTION THRU BEAM

Scale: 1 1/2"=1'-0"



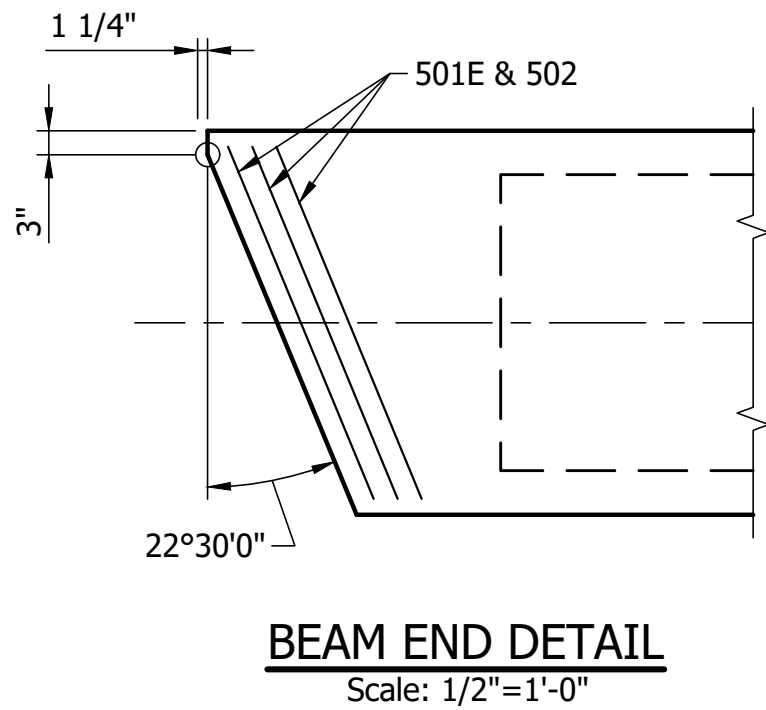
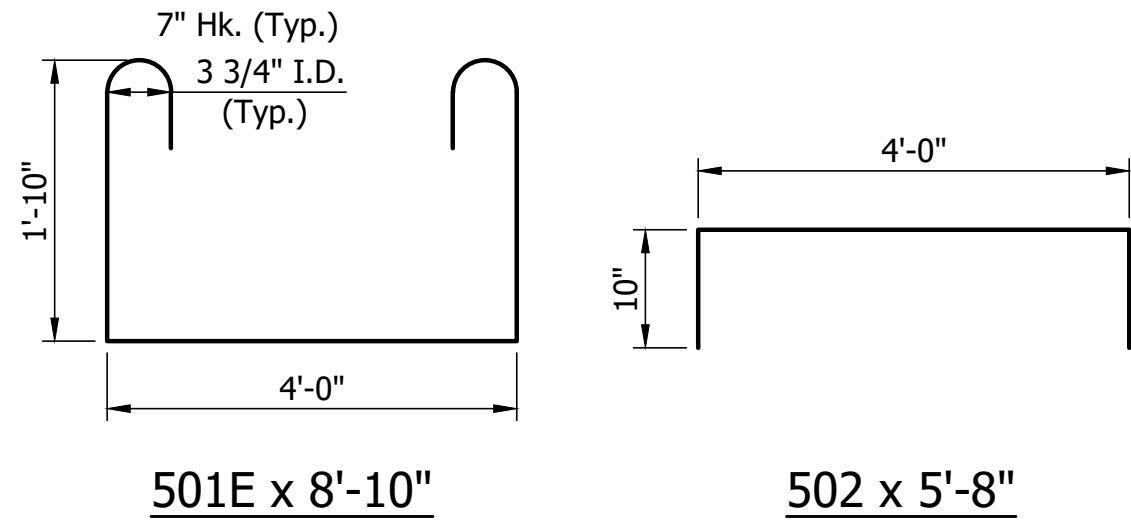
TYPICAL BEAM PLAN - SPAN "B"

Scale: 1/4"=1'-0"



TYPICAL BEAM ELEVATION - SPAN "B"

Scale: 1/4"=1'-0"



DEFLECTIONS AT MIDSPAN

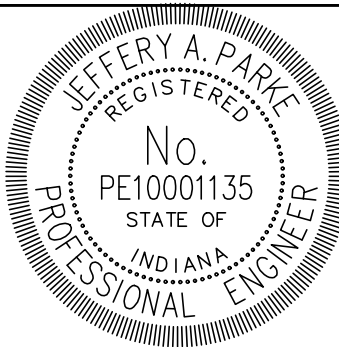
	SPAN "A"	SPAN "B"	SPAN "C"
Camber as Erected (+)	1 1/2"	2 1/8"	1 1/2"
Dead Load Deflection (-)	1/4"	1 1/8"	1/4"
Residual Camber (+)	1 1/4"	1"	1 1/4"

Note:

The camber values as shown in the above table are expected values. If the actual camber as erected is different by 1/2" or more, the Contractor shall notify the Engineer immediately so that adjustments can be made.

Notes:

For General Notes, see Dwg.C4.
501E & 502E bars shall be placed along the skew to avoid conflicts with the bottom transverse deck reinforcement.
For Framing Plan and additional notes, see Dwg.C20.
For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.

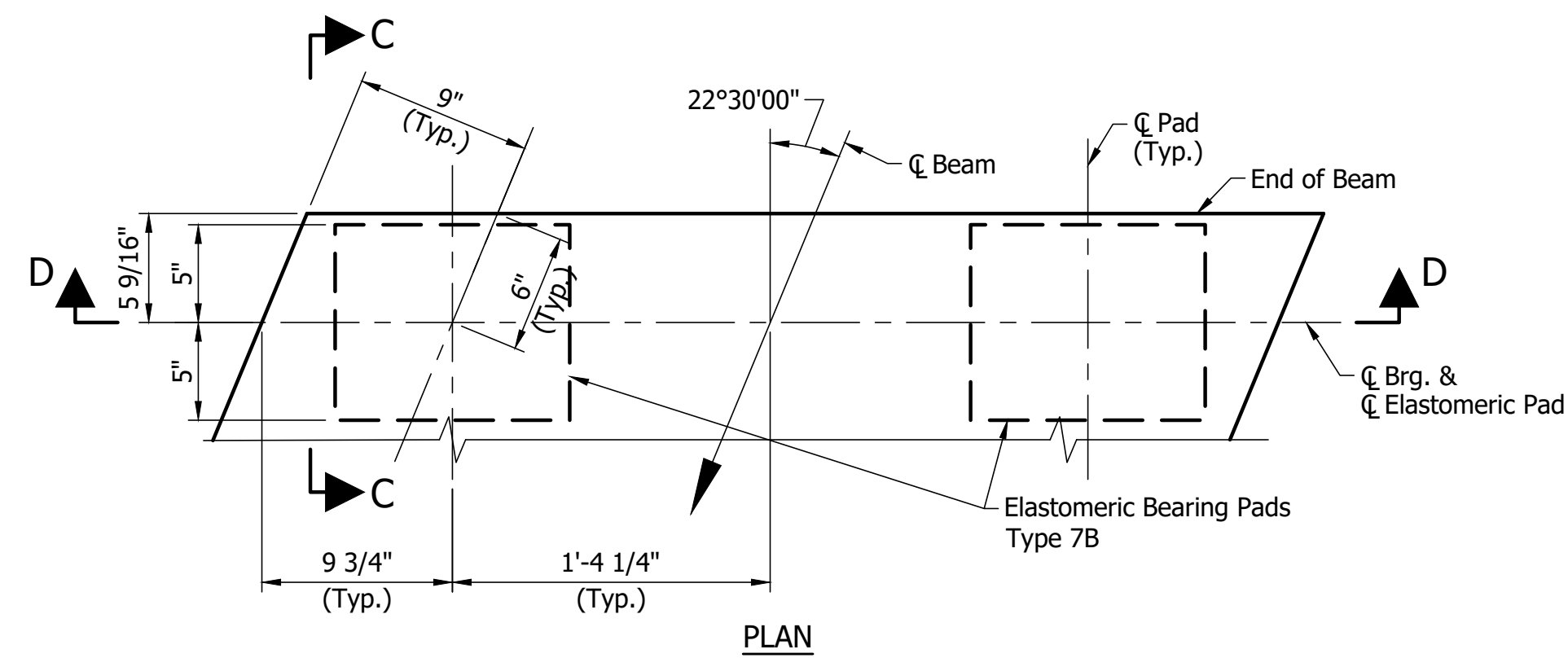


RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	DATE
DESIGNED: AE	DRAWN: WLC	
CHECKED: JAP	CHECKED: JAP	

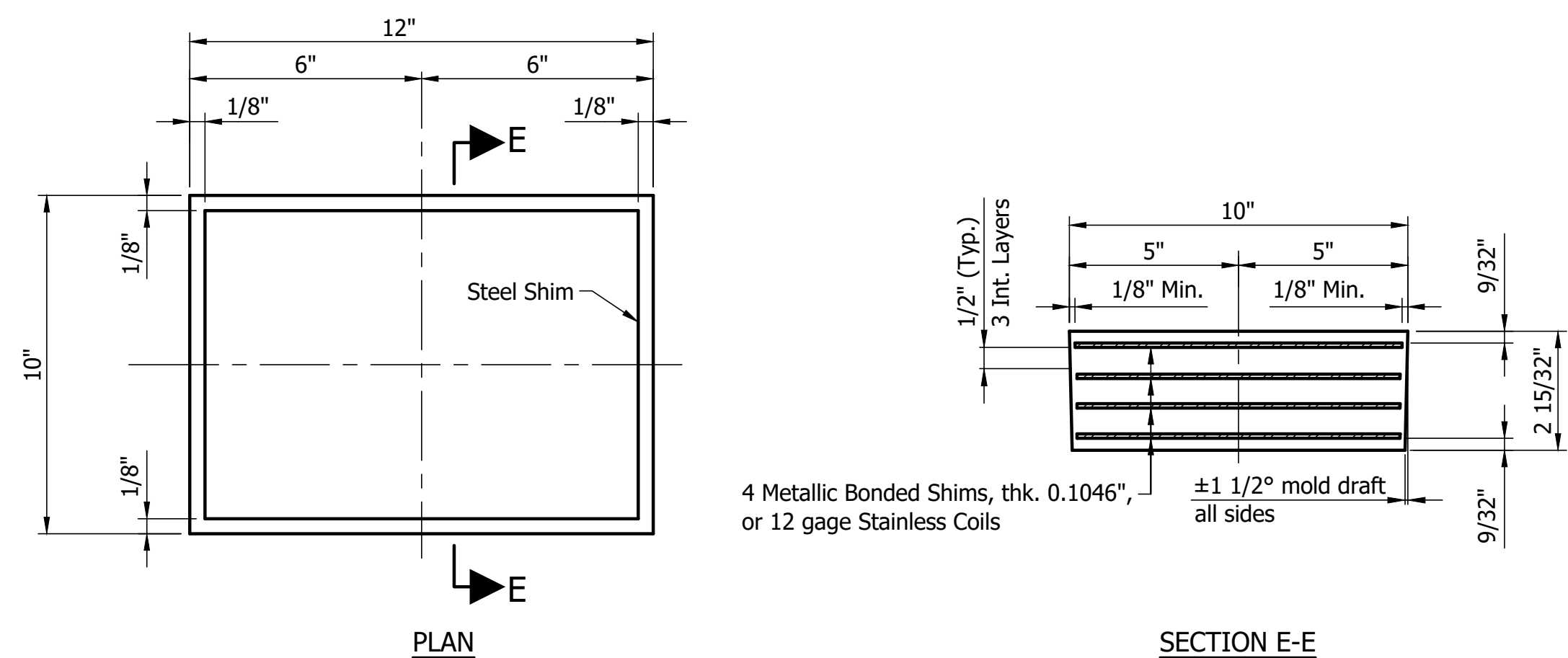
INDIANA
DEPARTMENT OF TRANSPORTATION

BEAM DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	150-22-05230 CEB & CWB
VERTICAL SCALE	DESIGNATION
AS NOTED	2002072 & 2002073
DRAWING NO.	SHEETS
C21 of C38	40 of 68
CONTRACT	PROJECT
R-45584	1900162



Scale: 1 1/2" = 1'-0"



(Elastomeric Material to be 55 Durometer Hardness)
No Scale

For General Notes, see Dwg.C4.

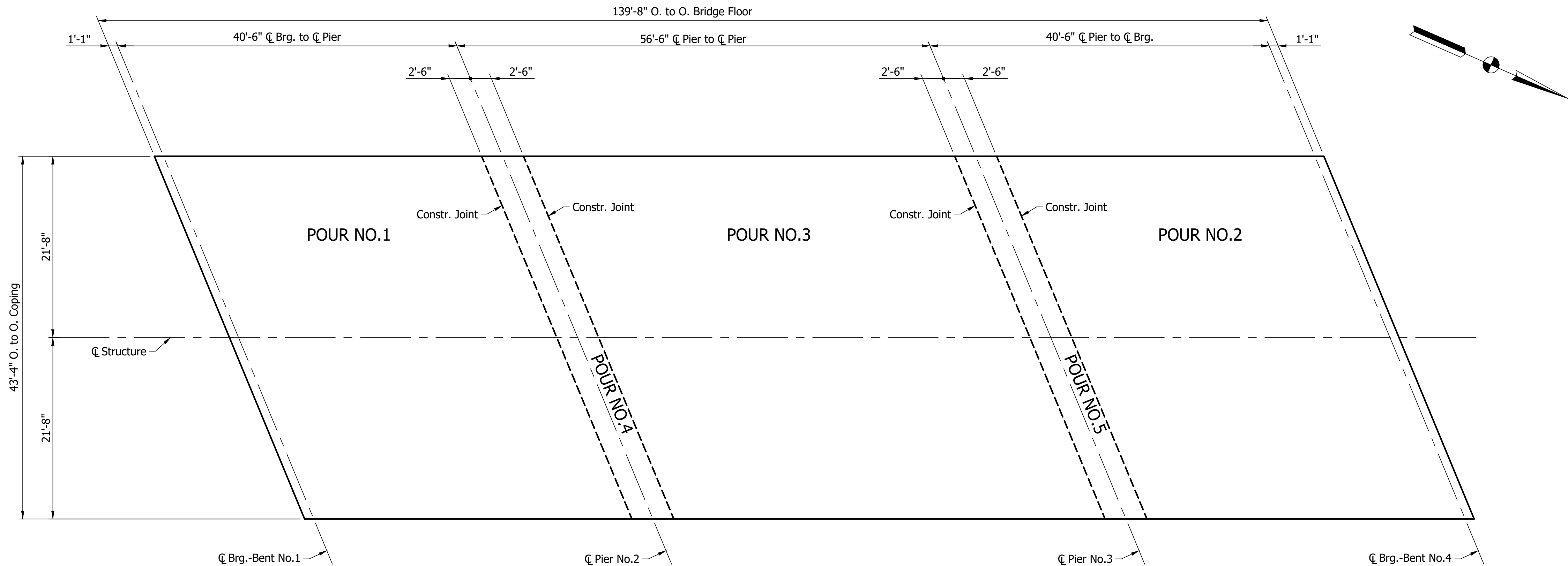
For Framing Plan, see Dwg.C20.

For Bearing Assembly Location, see Dwg.C20.

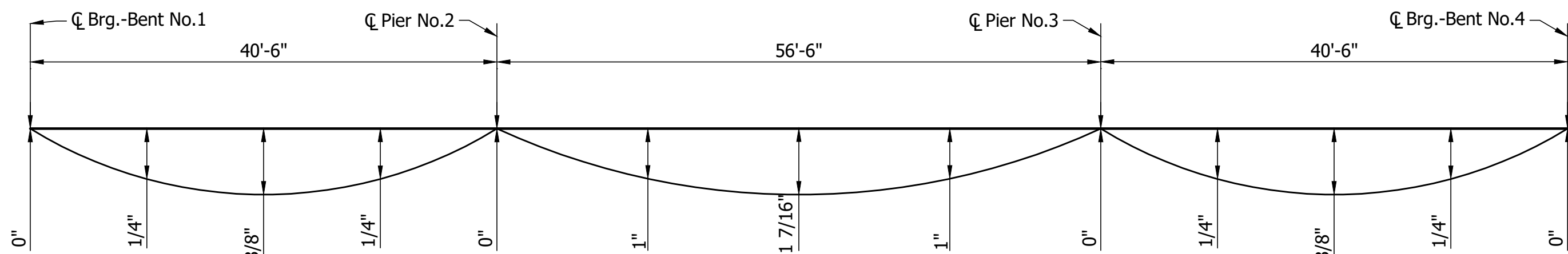
For additional Elastomeric Bearing Pad details, see Std.Dwg.No.E726-BEBP-01.

The bridge seats shall be finished at exactly the right elevation and be completely level to ensure full contact with the bottom of bearing device.

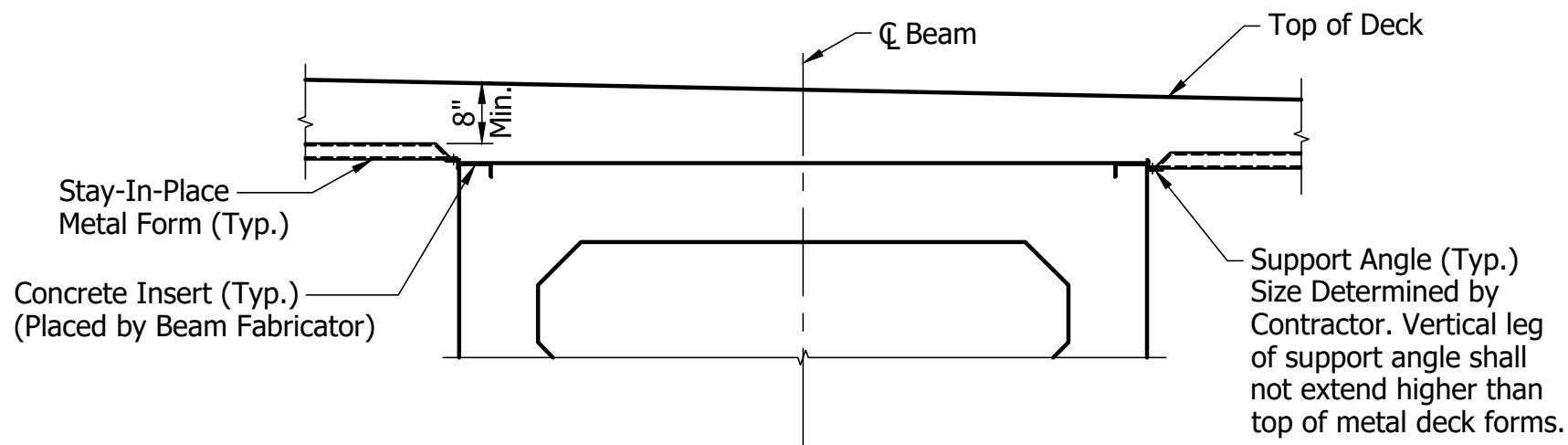
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AS NOTED		150-22-05230 CEB & CWB	
VERTICAL SCALE		DESIGNATION	
AS NOTED		2002072 & 2002073	
DRAWING NO.		SHEETS	
C22 of C38	41	of	68
CONTRACT	PROJECT		
R-45584	1900162		



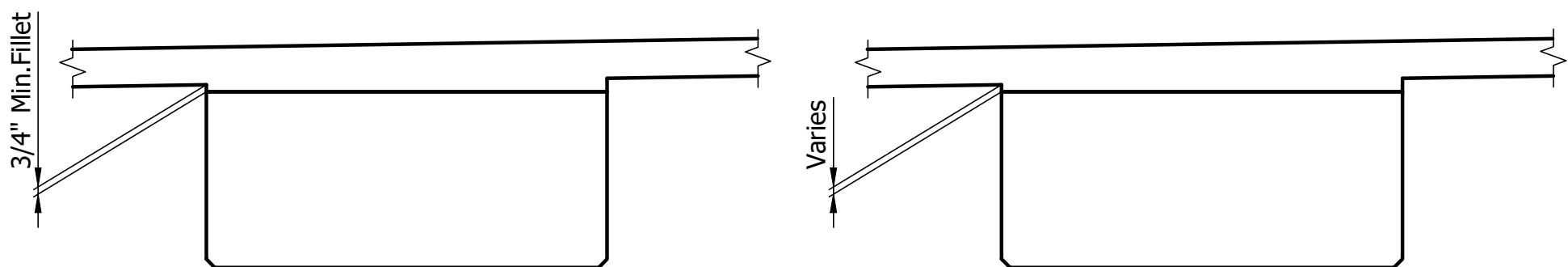
POUR DIAGRAM
(Eastbound Structure Shown, Westbound Structure Same by 180° Rotation)
Scale: 1/8" = 1'-0"



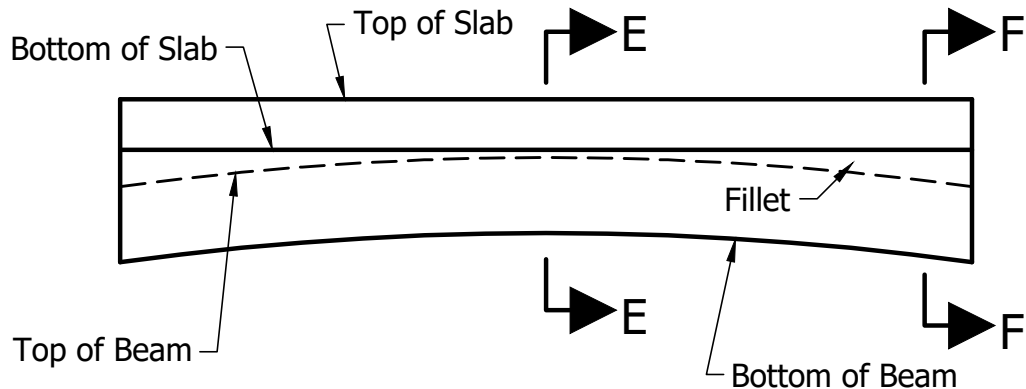
CONCRETE DEAD LOAD DEFLECTION DIAGRAM
Not to Scale



STAY IN PLACE FORM DETAILS
Not to Scale



SECTION E-E **SECTION F-F**



ELEVATION
HAUNCH DETAILS
Not to Scale

Note:
Bridge seat elevations were calculated using design camber and dead load deflection of slab (Residual Beam Camber) with the top of beam at a minimum of 3/4" below the bottom of slab elevation at midspan.

Notes:
Sequence of pours to be made in order of pour numbers. The Contractor may change the sequence of pours and location of construction joints subject to approval of Engineer.
As an alternate, the Contractor may elect to pour the deck as one continuous pour from one end to the other. This will be allowed provided the following criteria are met:
-The minimum allowable pour rate is 40 cys/hr.
-Each span (deck plus prior pier diaphragm) shall be completed within 3 1/2 hours, measured from the time the concrete within that span is discharged.

For General Notes, see Dwg.C4.
For Slab Plan, see Dwg.C23.
For Beam Details, see Dwg.C21.



RECOMMENDED FOR APPROVAL	<i>Jeffery A. Parks</i>	DESIGN ENGINEER	9/16/2024	DATE
DESIGNED: AE	DRAWN: WLC	CHECKED: JAP	CHECKED: JAP	

INDIANA
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	150-22-05230 CEB & CWB
VERTICAL SCALE	DESIGNATION
AS NOTED	2002072 & 2002073
DRAWING NO.	SHEETS
C24 of C38	43 of 68
CONTRACT	PROJECT
R-45584	1900162

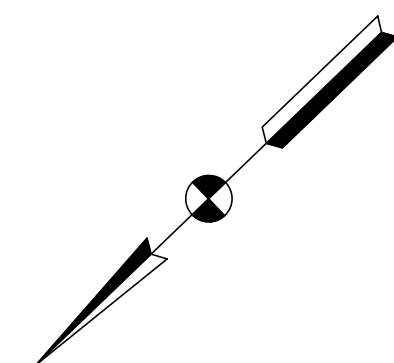


Diagram illustrating the Bridge Seat Detail. The detail shows a horizontal surface (Bridge Seat) and a vertical surface. The reinforcement consists of 1" PEJF Placed on Vertical Surfaces and 1/2" PEJF Placed on Horizontal Surfaces.

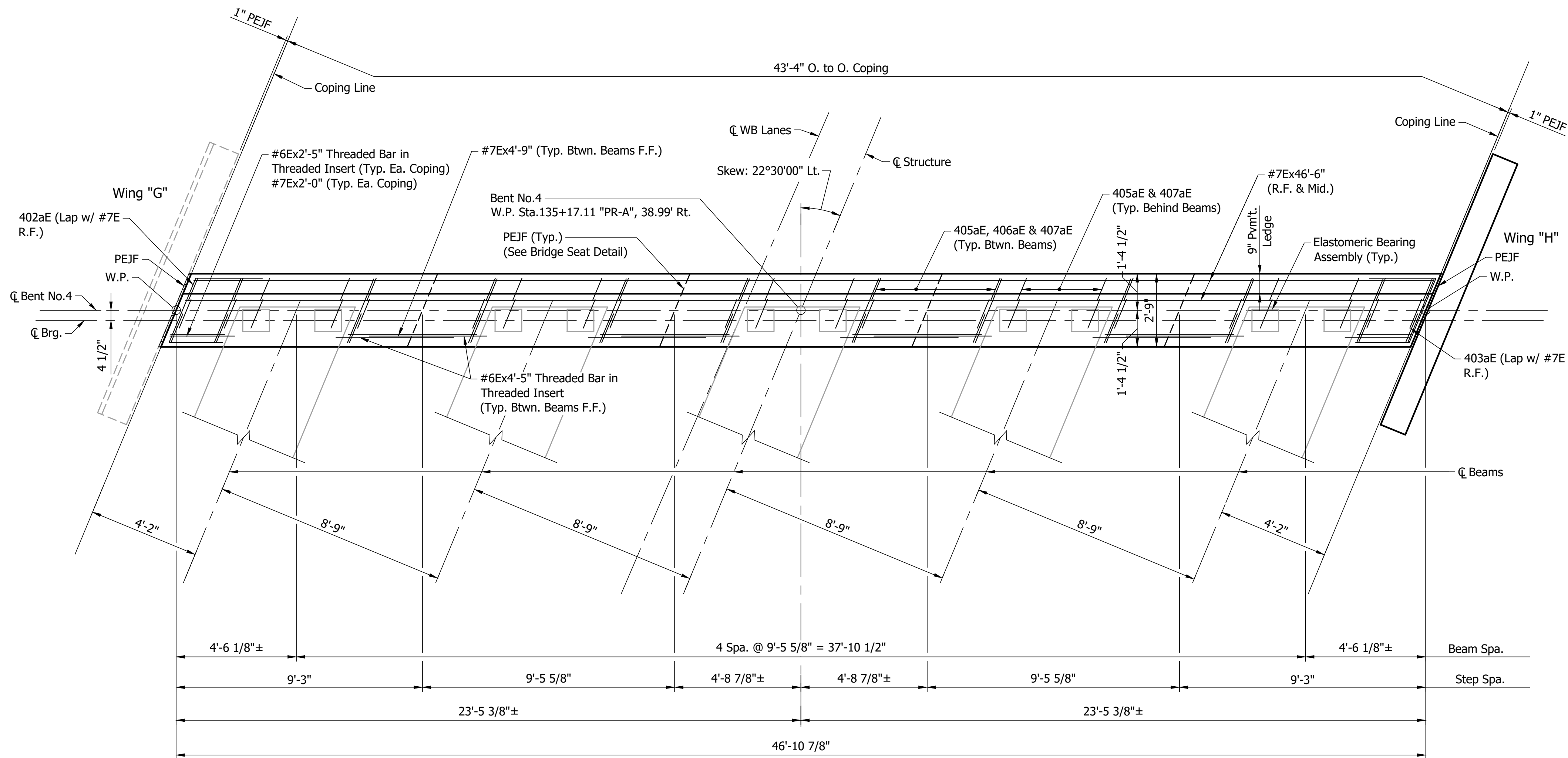
Notes:

- For General Notes, see Dwg.C4.
- For Sections B-B & C-C, see Dwg.C29.
- For Wing Reconstruction Details, see Dwg.C8.
- For Slab Plan and additional details, see Dwg.C23.
- For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.
- "E" denotes Epoxy Coated Reinforcing Steel.
- For Bar Bending Diagrams and Bill of Materials, see Dwg.C29.

CHECKED: JAP

SUPERSTRUCTURE DETAILS

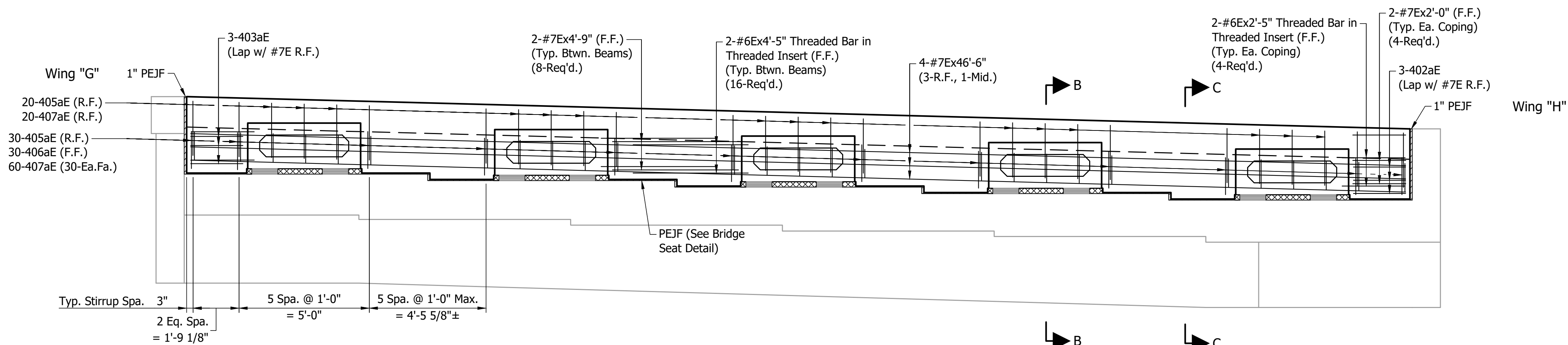
HORIZONTAL SCALE		BRIDGE FILE	
AS NOTED		150-22-05230 CEB & CWB	
VERTICAL SCALE		DESIGNATION	
AS NOTED		2002072 & 2002073	
DRAWING NO.		SHEETS	
C25 of C38		44	of 68
CONTRACT		PROJECT	
R-45584		1900162	



PLAN - BENT NO.4 DIAPHRAGM - WBL
Scale: 3/8" = 1'-0"

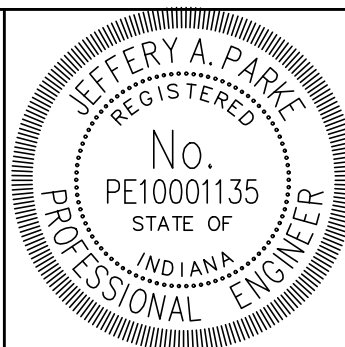
MIN. LAP LENGTHS

4'-9" (#7E to #7E)
4'-0" (#6E to #7E)



ELEVATION - BENT NO.4 DIAPHRAGM - WBL
Scale: 3/8" = 1'-0"

- Notes:
- For General Notes, see Dwg.C4.
 - For Bridge Seat Detail, see Dwg.C25.
 - For Sections B-B & C-C, see Dwg.C29.
 - For Wing Reconstruction Details, see Dwg.C10.
 - For Slab Plan and additional details, see Dwg.C23.
 - For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.
 - "E" denotes Epoxy Coated Reinforcing Steel.
 - For Bar Bending Diagrams and Bill of Materials, see Dwg.C29.



RECOMMENDED
FOR APPROVAL

Jeffery A. Parke
DESIGN ENGINEER

9/16/2024
DATE

DESIGNED: AE

DRAWN: WLC

CHECKED: JAP

CHECKED: JAP

INDIANA
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS

HORIZONTAL SCALE

AS NOTED

VERTICAL SCALE

AS NOTED

BRIDGE FILE

150-22-05230 CEB & CWB

DESIGNATION

2002072 & 2002073

DRAWING NO.

C26 of C38

CONTRACT

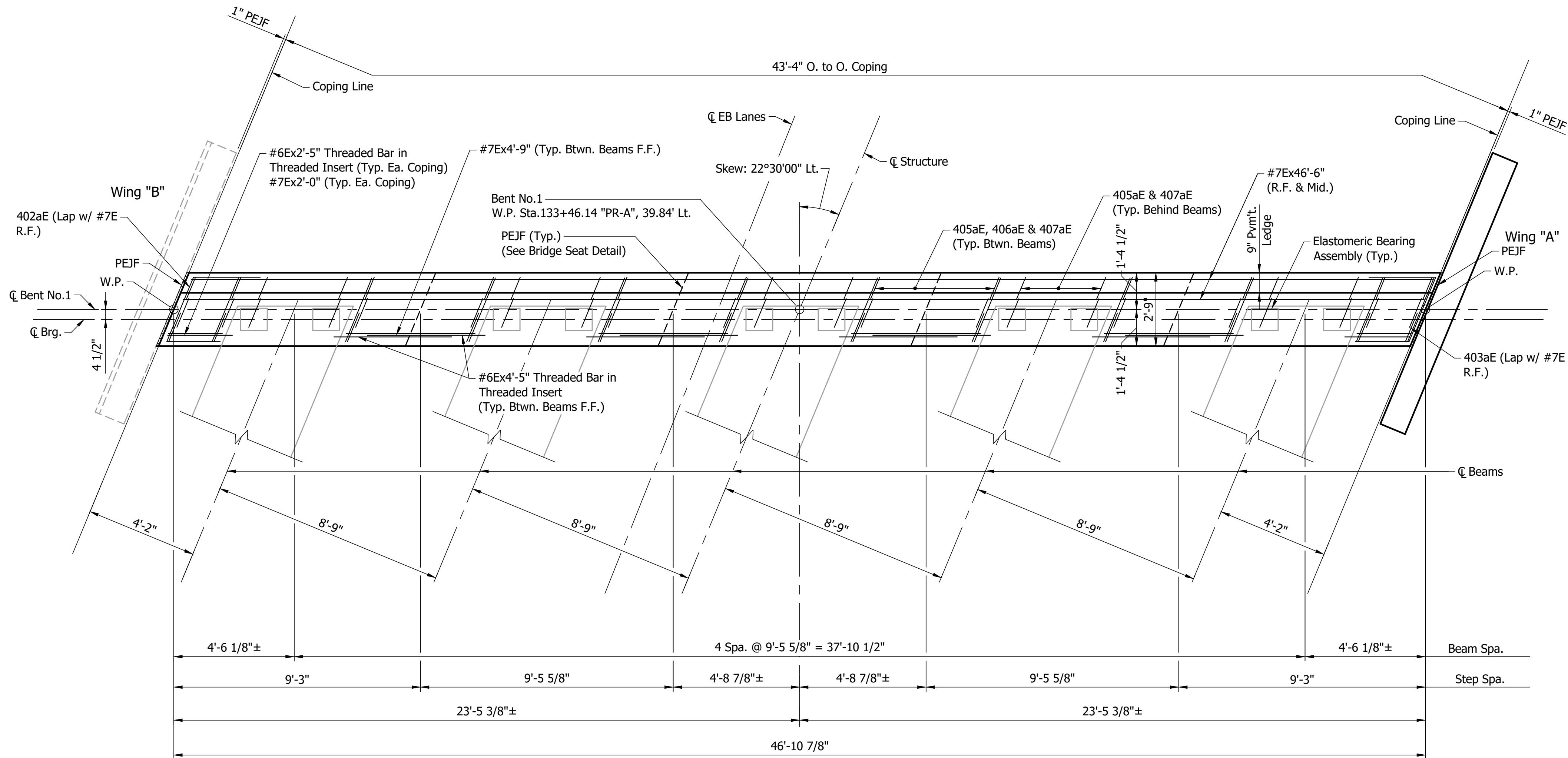
R-45584

SHEETS

45 of 68

PROJECT

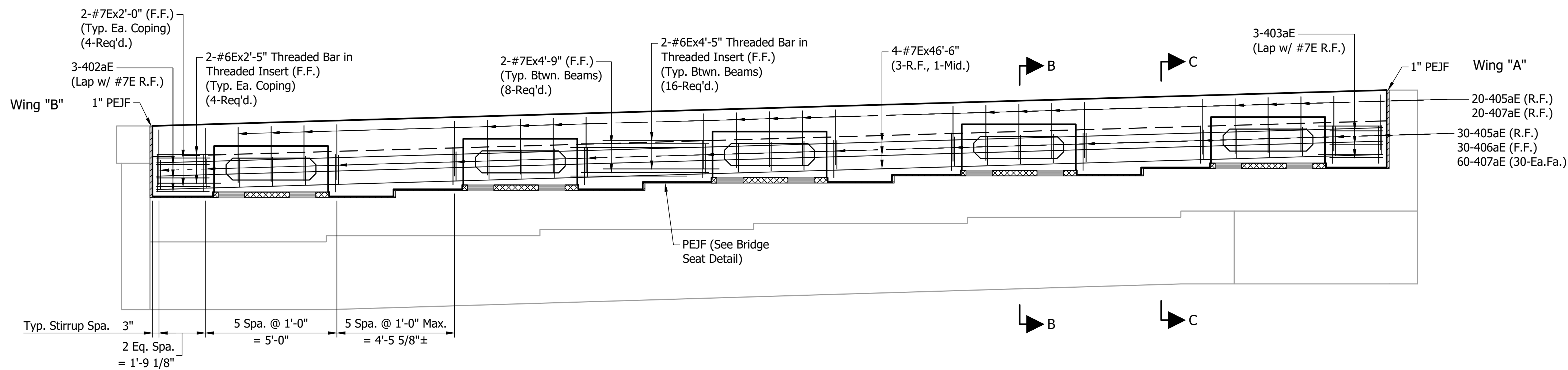
1900162



PLAN - BENT NO.1 DIAPHRAGM - EBL
Scale: 3/8" = 1'-0"

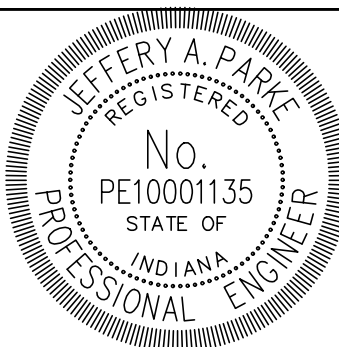
MIN. LAP LENGTHS

4'-9" (#7E to #7E)
4'-0" (#6E to #7E)



ELEVATION - BENT NO.1 DIAPHRAGM - EBL
Scale: 3/8" = 1'-0"

- Notes:
- For General Notes, see Dwg.C4.
 - For Bridge Seat Detail, see Dwg.C25.
 - For Sections B-B & C-C, see Dwg.C29.
 - For Wing Reconstruction Details, see Dwg.C12.
 - For Slab Plan and additional details, see Dwg.C23.
 - For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.
 - "E" denotes Epoxy Coated Reinforcing Steel.
 - For Bar Bending Diagrams and Bill of Materials, see Dwg.C29.

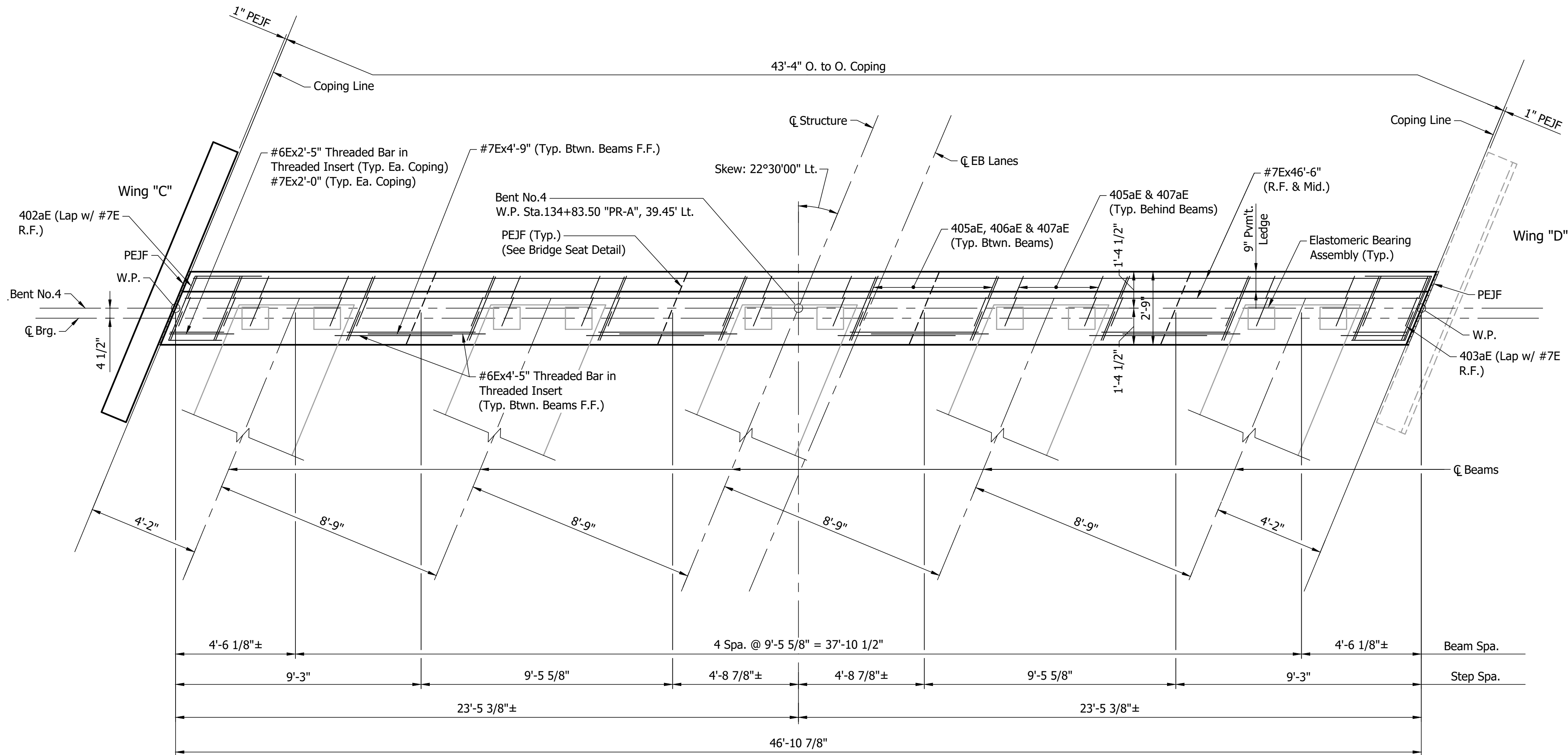


RECOMMENDED FOR APPROVAL	<i>Jeffery A. Parke</i>	DESIGN ENGINEER	9/16/2024	DATE
DESIGNED: AE	DRAWN: WLC			
CHECKED: JAP	CHECKED: JAP			

INDIANA
DEPARTMENT OF TRANSPORTATION

SUPERSTRUCTURE DETAILS

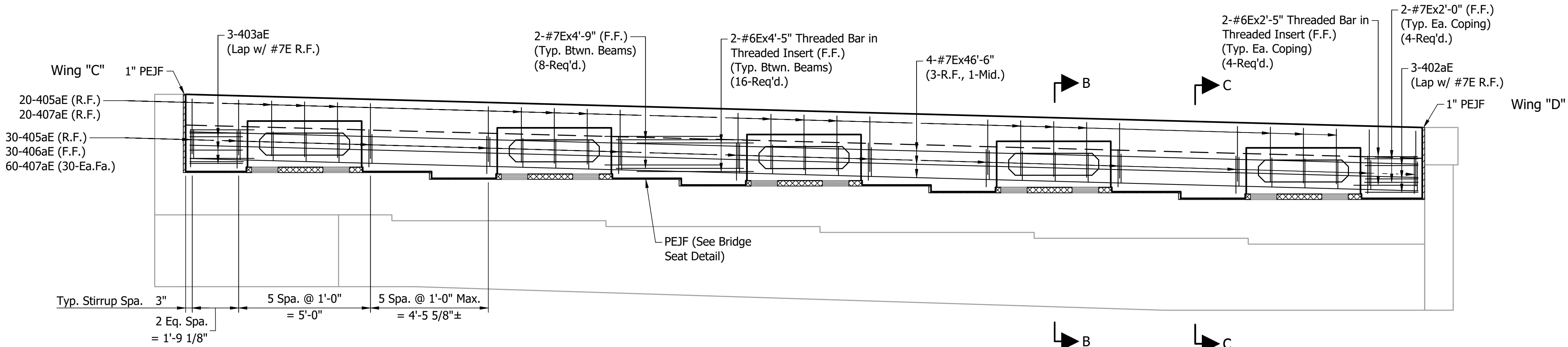
HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	150-22-05230 CEB & CWB
VERTICAL SCALE	DESIGNATION
AS NOTED	2002072 & 2002073
DRAWING NO.	SHEETS
C27 of C38	46 of 68
CONTRACT	PROJECT
R-45584	1900162



PLAN - BENT NO.4 DIAPHRAGM - EBL
Scale: 3/8" = 1'-0"

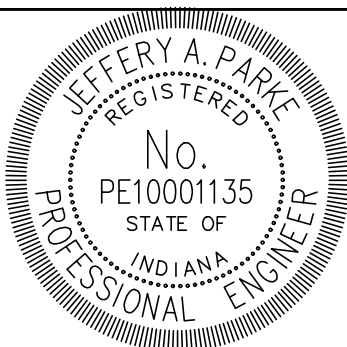
MIN. LAP LENGTHS

4'-9" (#7E to #7E)
4'-0" (#6E to #7E)



ELEVATION - BENT NO.4 DIAPHRAGM - EBL
Scale: 3/8" = 1'-0"

- Notes:
- For General Notes, see Dwg.C4.
 - For Bridge Seat Detail, see Dwg.C25.
 - For Sections B-B & C-C, see Dwg.C29.
 - For Wing Reconstruction Details, see Dwg.C14.
 - For Slab Plan and additional details, see Dwg.C23.
 - For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.
 - "E" denotes Epoxy Coated Reinforcing Steel.
 - For Bar Bending Diagrams and Bill of Materials, see Dwg.C29.

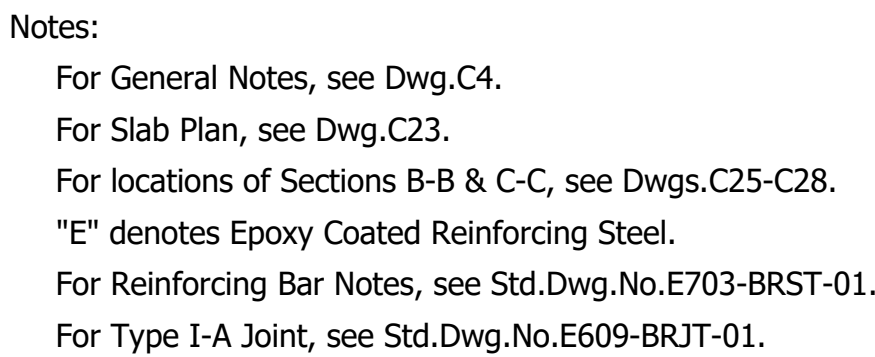
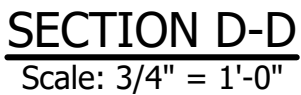
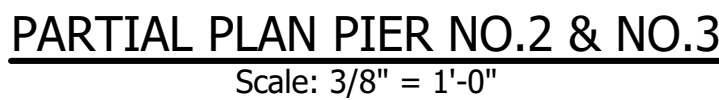
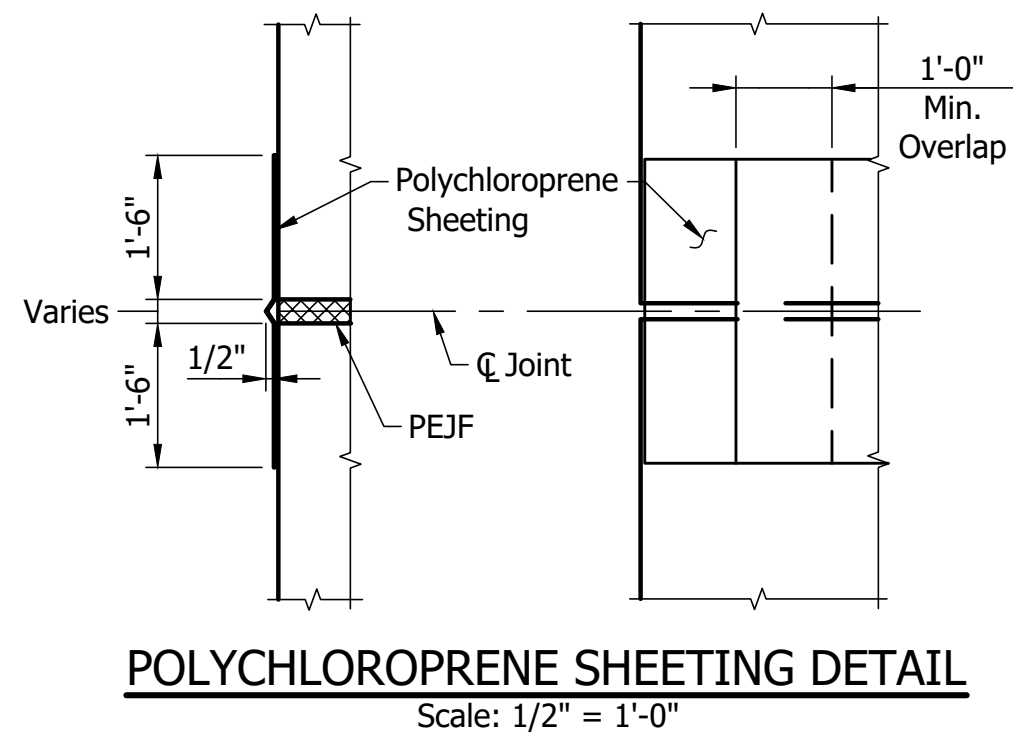
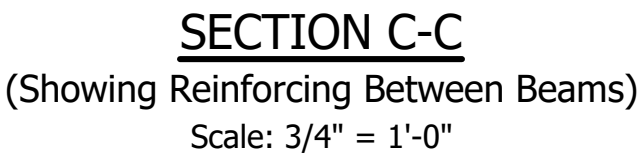
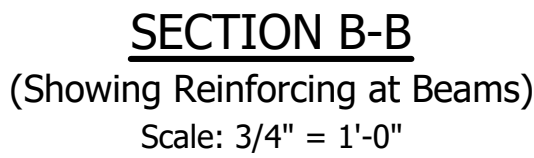


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DESIGNED: AE	DRAWN: WLC	DATE
CHECKED: JAP	CHECKED: JAP	

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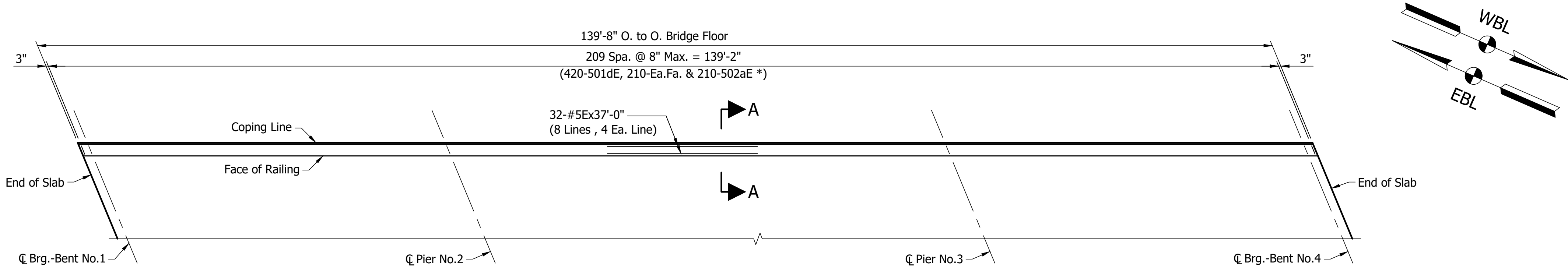
SUPERSTRUCTURE DETAILS

HORIZONTAL SCALE	BRIDGE FILE
AS NOTED	150-22-05230 CEB & CWB
VERTICAL SCALE	DESIGNATION
AS NOTED	2002072 & 2002073
DRAWING NO.	SHEETS
C28 of C38	47 of 68
CONTRACT	PROJECT
R-45584	1900162

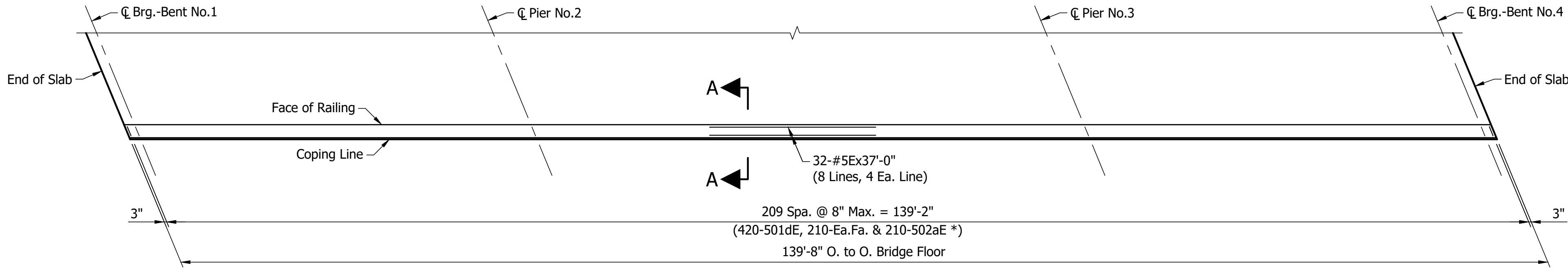


* For location of these bars, see Dwg.C30.

* For location of these bars, see Dwg.C30.

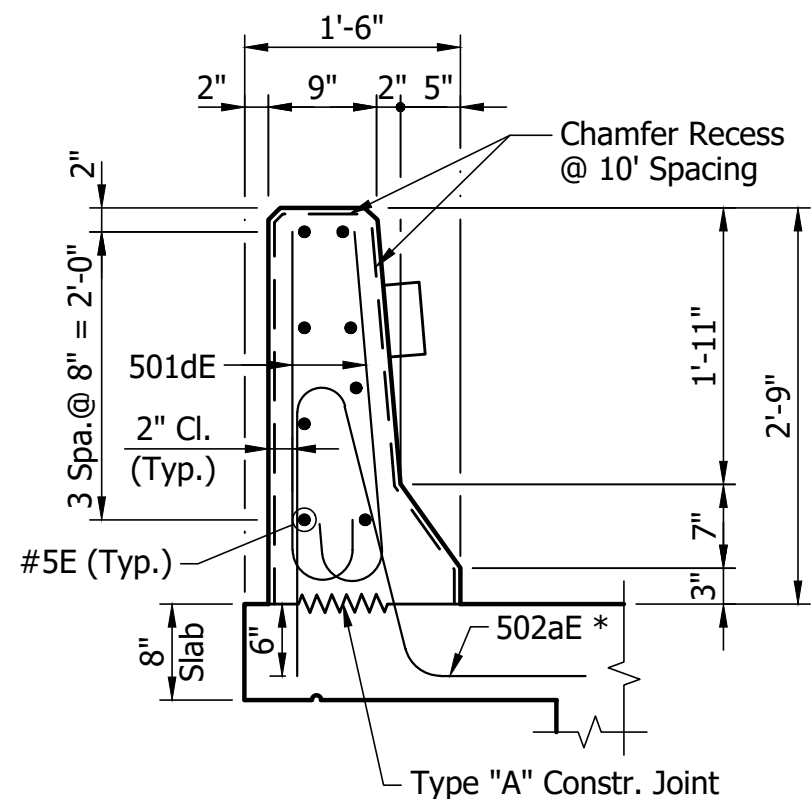


RAILING PLAN - MEDIAN COPING
(WB Structure Shown, EB Structure Same by 180° Rotation)
Scale: 1/8" = 1'-0"



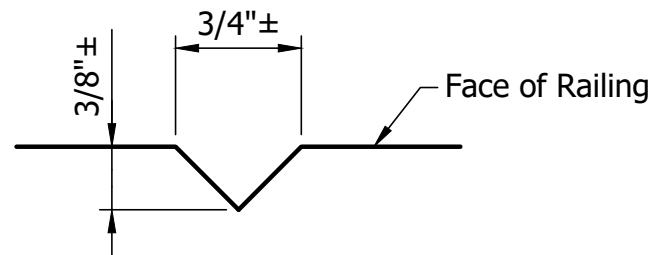
RAILING PLAN - OUTSIDE COPING
(WB Structure Shown, EB Structure Same by 180° Rotation)
Scale: 1/8" = 1'-0"

MINIMUM LAPS
2'-9" (#5E to #5E Bars)



SECTION A-A
Scale: 3/4" = 1'-0"

* Bars billed w/ Superstructure.



CHAMFERED RECESS
Not to Scale

BILL OF MATERIALS

BRIDGE RAILING
WBL

REINFORCING BARS			
SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
501dE	840	3'-0"	
#5E	64	37'-0"	
Total #5E			5098

Total Epoxy Coated Reinforcing Bars 5098

MISCELLANEOUS

Railing, Concrete FC	280 Lft
Barrier Delineators	10 Ea
Surface Seal (Est. Quantity)	1785 Sft

BILL OF MATERIALS

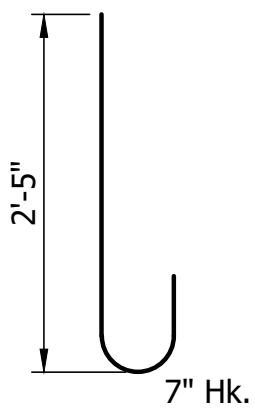
BRIDGE RAILING
EBL

REINFORCING BARS			
SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
501dE	840	3'-0"	
#5E	64	37'-0"	
Total #5E			5098

Total Epoxy Coated Reinforcing Bars 5098

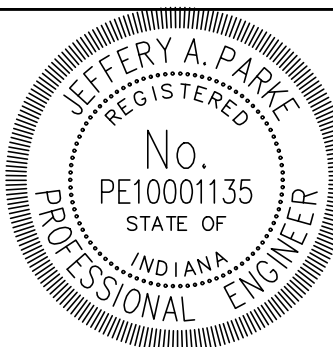
MISCELLANEOUS

Railing, Concrete FC	280 Lft
Barrier Delineators	10 Ea
Surface Seal (Est. Quantity)	1785 Sft



501dE x 3'-0"

- Notes:
- For General Notes, see Dwg.C4.
 - For additional details of Concrete Railing, FC, see Std.Dwg.No.E706-BRSF-01, 02, & -04.
 - For Slab Plan, see Dwg.C23.
 - For Type "A" Constr. Joint, see Std.Dwg.No.E702-CJTA-01.
 - For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.
 - "E" denotes Epoxy Coated Reinforcing Steel.

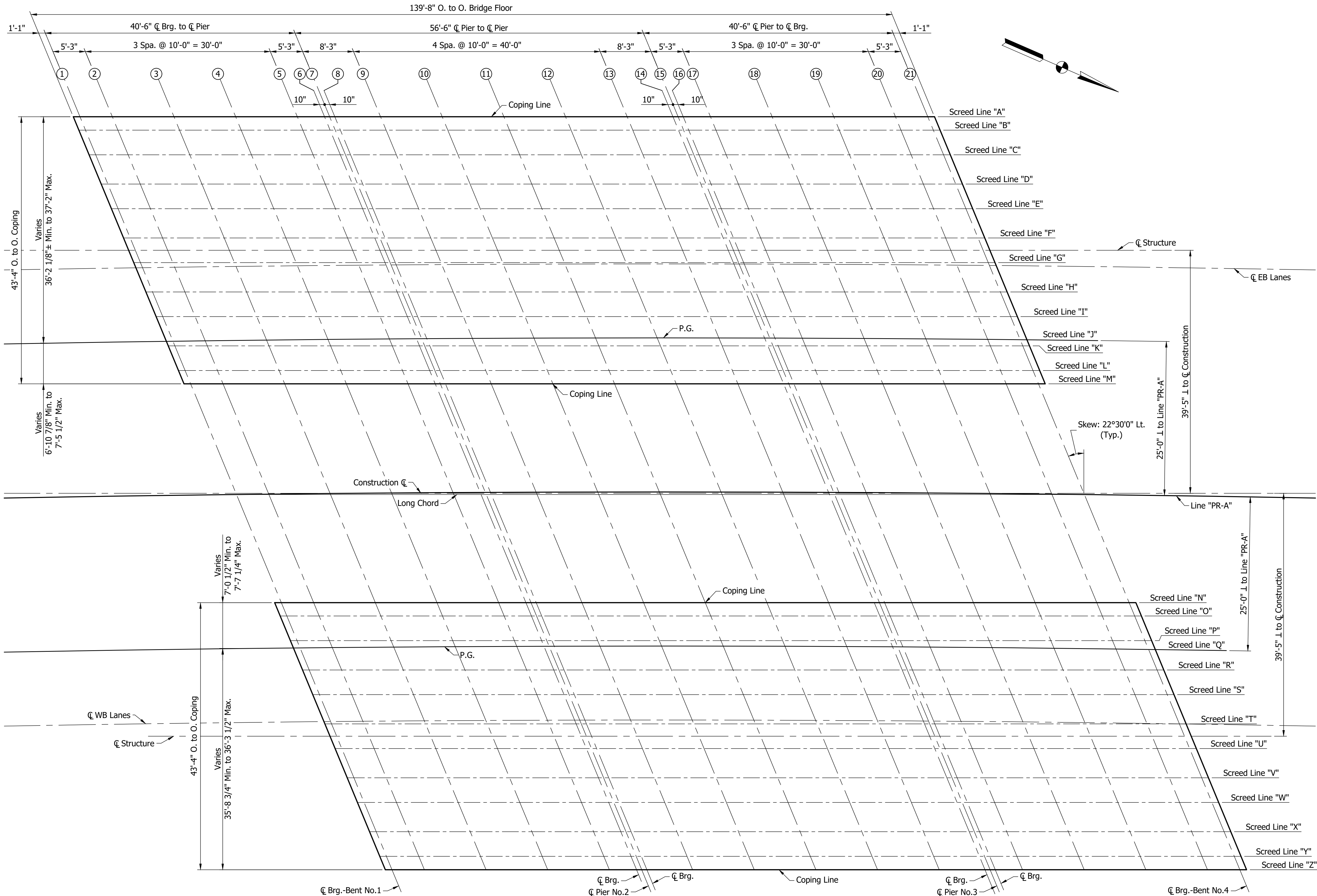


RECOMMENDED FOR APPROVAL	<i>Jeffery A. Parke</i>	DESIGN ENGINEER	9/16/2024	DATE
DESIGNED: AE	DRAWN: WLC			
CHECKED: JAP	CHECKED: JAP			

INDIANA
DEPARTMENT OF TRANSPORTATION

BRIDGE RAILING DETAILS

HORIZONTAL SCALE	BRIDGE FILE			
AS NOTED	150-22-05230 CEB & CWB			
VERTICAL SCALE	DESIGNATION			
AS NOTED	2002072 & 2002073			
DRAWING NO.	SHEETS			
C30 of C38	49	of	68	
CONTRACT	PROJECT			
R-45584	1900162			



SCREED PLAN
Scale: 1/8" = 1'-0"

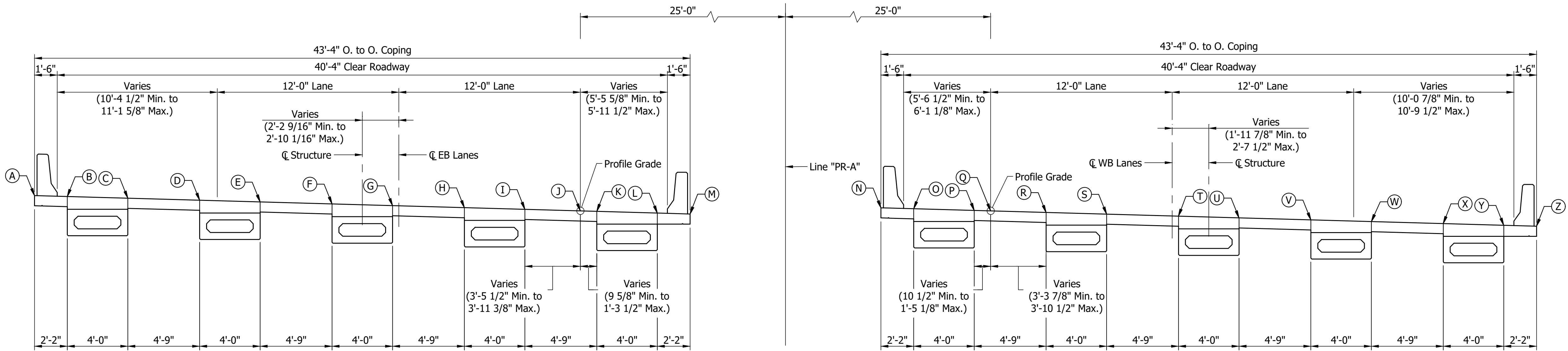
- Notes:
- For General Notes, see Dwg.C4.
 - For Typical Section, see Dwg.C32.
 - For Table of Screed Elevations, see Dwg.C33.
 - For Tie Up Diagram, see Sht.C5.



RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED: JAP		DRAWN: WLC			
CHECKED: AE		CHECKED: JAP			

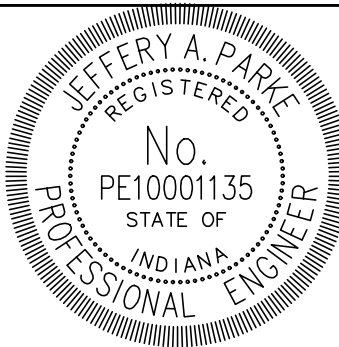
INDIANA DEPARTMENT OF TRANSPORTATION	
SCREEDS	

HORIZONTAL SCALE		BRIDGE FILE	
1/8" = 1'-0"		150-22-05230 CEB & CWB	
VERTICAL SCALE		DESIGNATION	
1/8" = 1'-0"		2002072 & 2002073	
DRAWING NO.		SHEETS	
C31 of C38		50	of 68
CONTRACT		PROJECT	
R-45584		1900162	



TYPICAL SECTION
Scale: 1/4" = 1'-0"

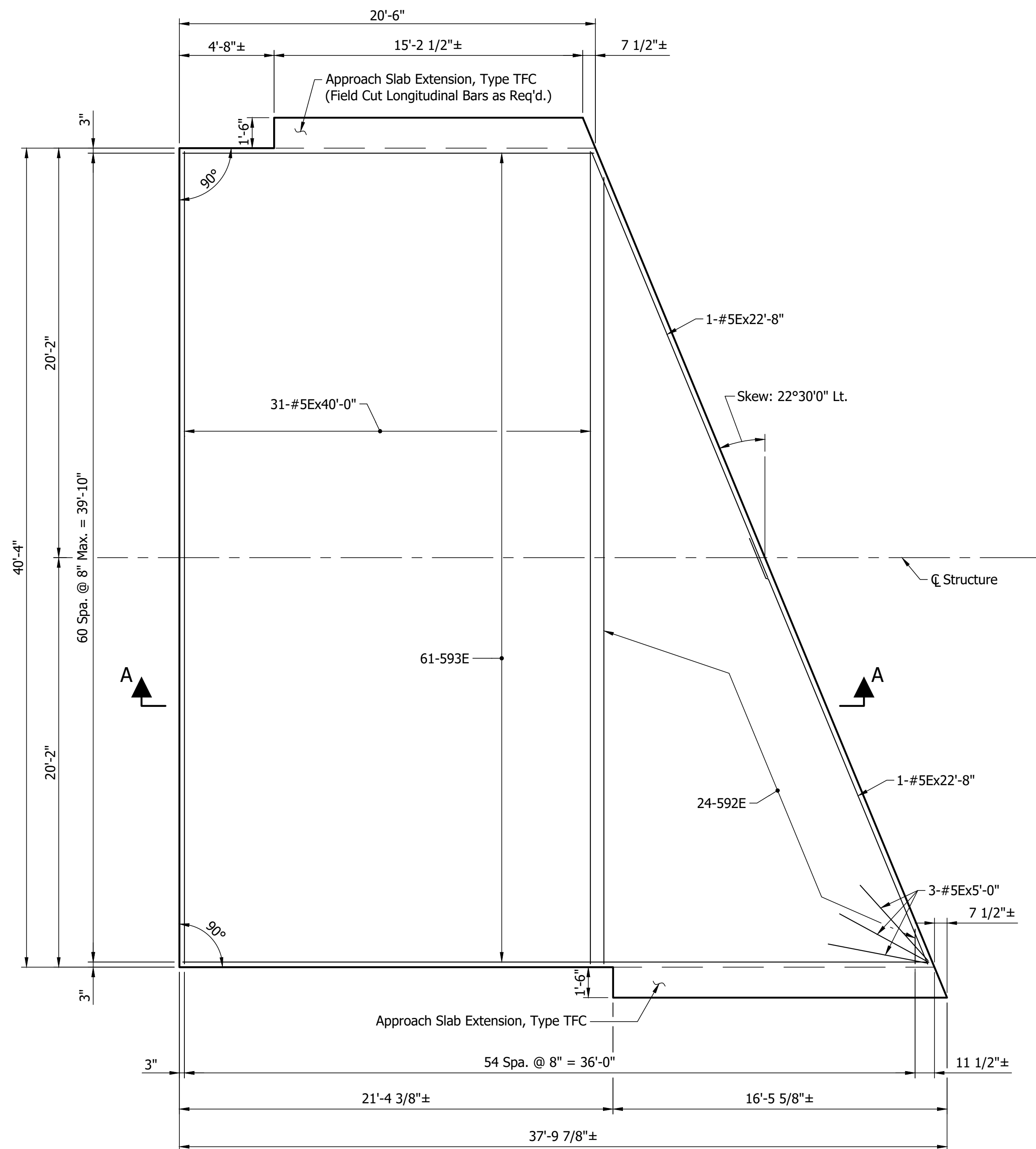
Notes:
For General Notes, see Dwg.C4.
For Screed Plan, see Dwg.C31.
For Table of Screed Elevations, see Dwg.C33.



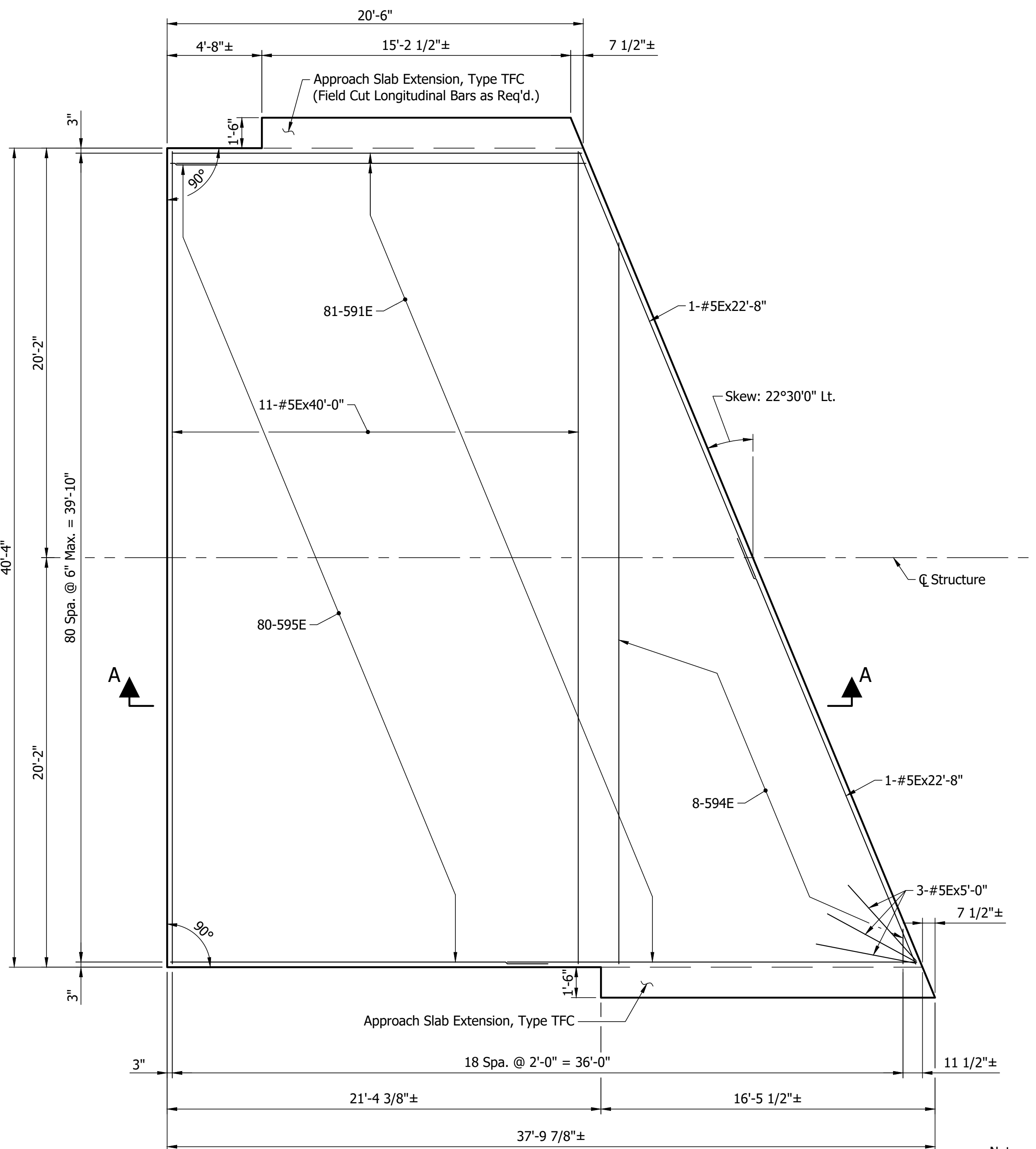
RECOMMENDED FOR APPROVAL <i>Jeffery A. Parke</i> 9/16/2024 DESIGN ENGINEER DATE	
DESIGNED: JAP	DRAWN: WLC
CHECKED: AE	CHECKED: JAP

INDIANA DEPARTMENT OF TRANSPORTATION	
SCREEDS	

HORIZONTAL SCALE AS NOTED		BRIDGE FILE 150-22-05230 CEB & CWB	
VERTICAL SCALE AS NOTED		DESIGNATION 2002072 & 2002073	
DRAWING NO. C32 of C38		SHEETS 51 of 68	
CONTRACT R-45584		PROJECT 1900162	



TOP REINFORCING

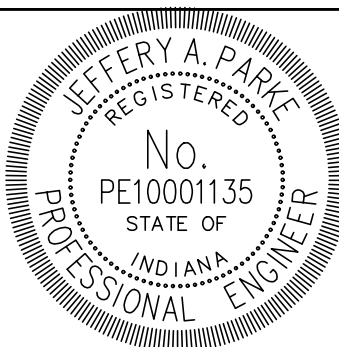


BOTTOM REINFORCING

APPROACH SLAB PLAN - BENT NO.1 - WBL
Scale: 1/4" = 1'-0"

MINIMUM LAP LENGTH
2'-0" (#5E to #5E)

- Notes:
- For General Notes, see Dwg.C4.
 - For Section A-A and Pavement Ledge Detail, see Dwg.C38.
 - For Approach Slab Extension, Type TFC details, see Std.Dwg.No.E609-TBAE-01 thru -03.
 - For Bar Bending Diagrams and Bill of Materials, see Dwg.C38.
 - For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.
 - "E" denotes Epoxy Coated Reinforcing Steel.

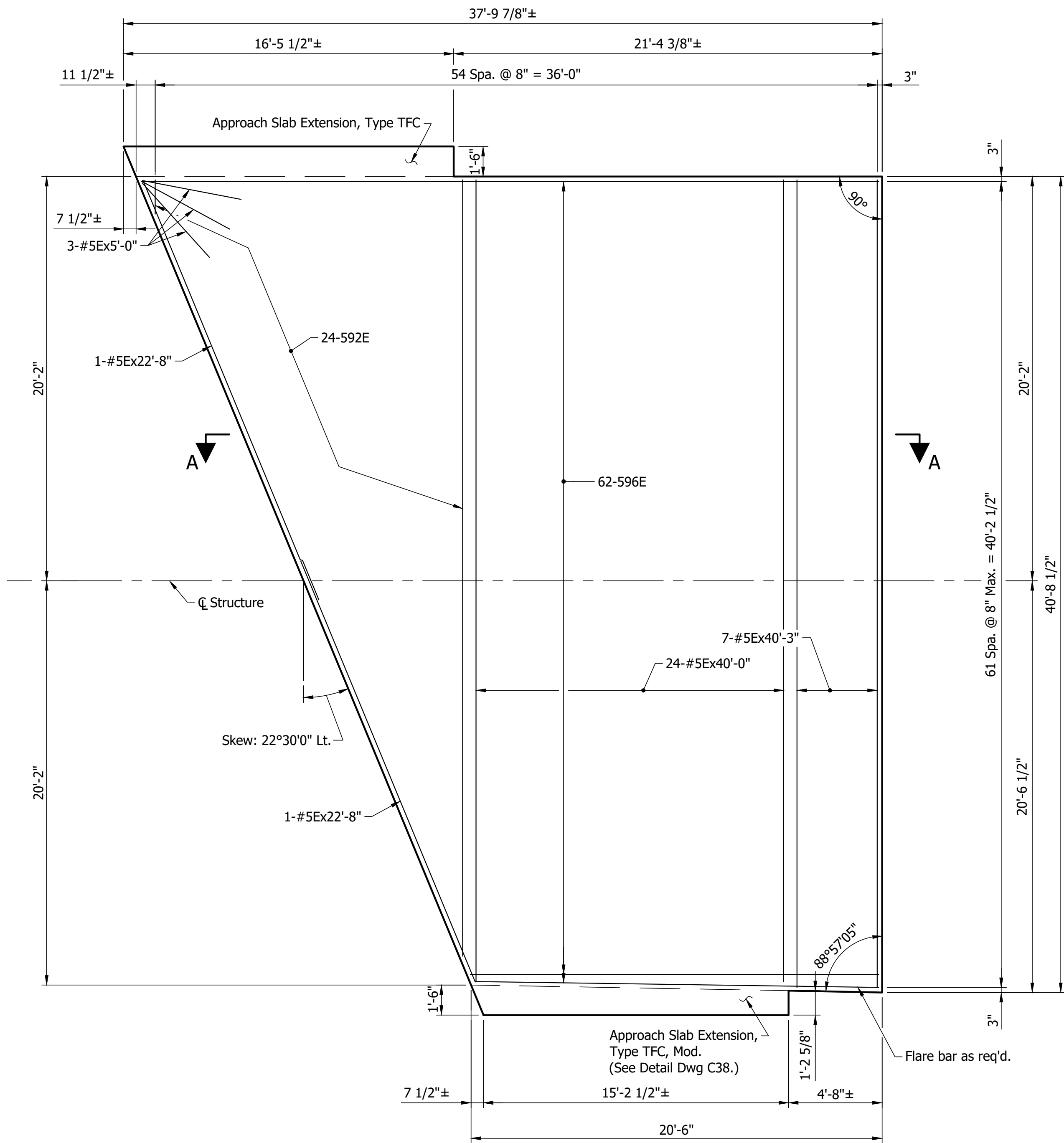
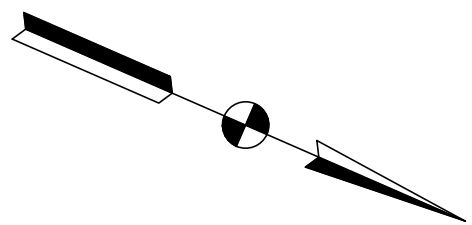


RECOMMENDED FOR APPROVAL			9/16/2024
			DATE
DESIGNED: <u>AE</u>		DRAWN: <u>WLC</u>	
CHECKED: <u>JAP</u>		CHECKED: <u>JAP</u>	

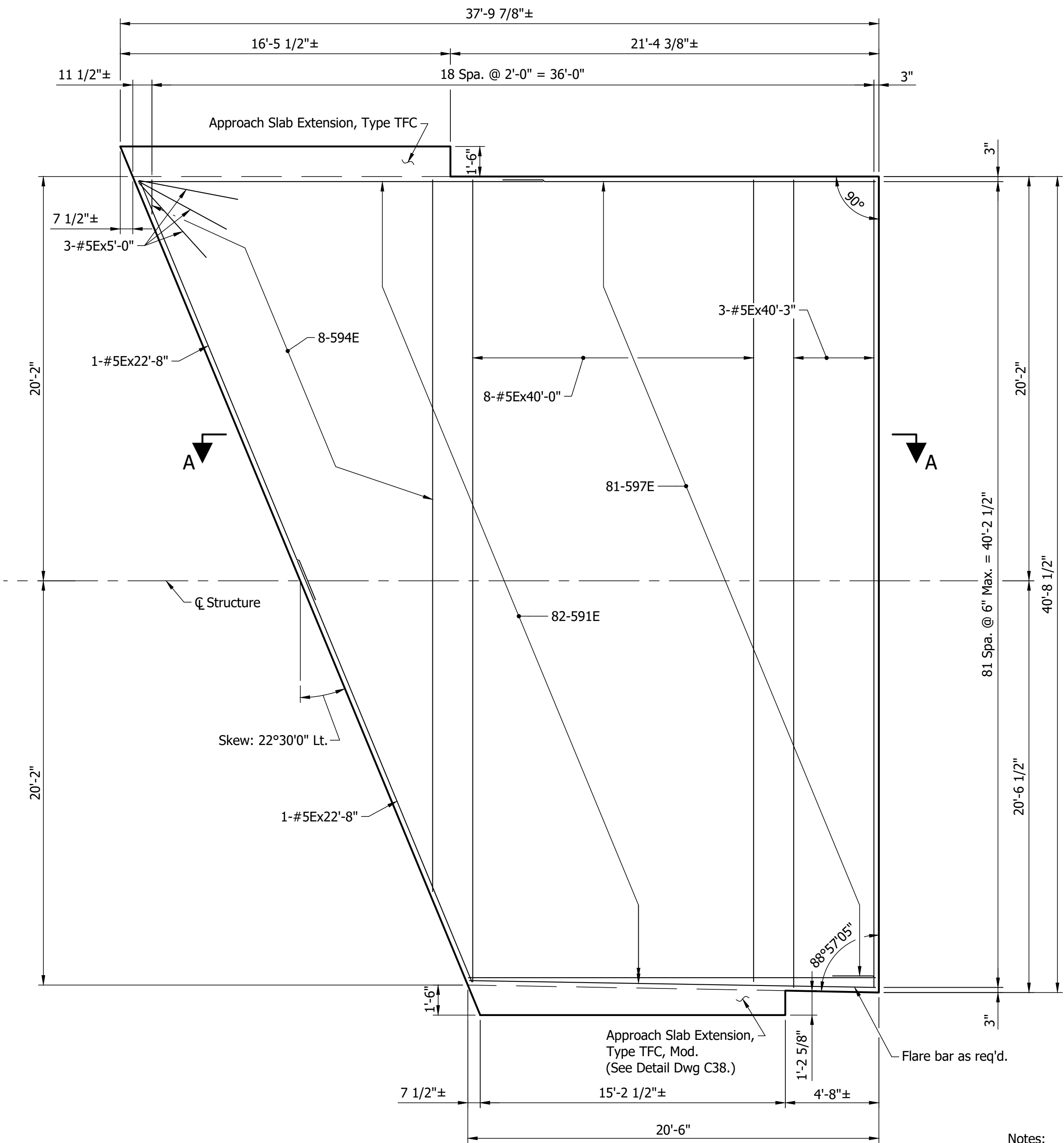
INDIANA
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APPROACH SLAB DETAILS
WESTBOUND LANES

HORIZONTAL SCALE		BRIDGE FILE	
1/4" = 1'-0"		150-22-05230 CEB & CWB	
VERTICAL SCALE		DESIGNATION	
		2002072 & 2002073	
DRAWING NO.		SHEETS	
C34 of C38		53	of 68
CONTRACT		PROJECT	
R-45584		1900162	



TOP REINFORCING

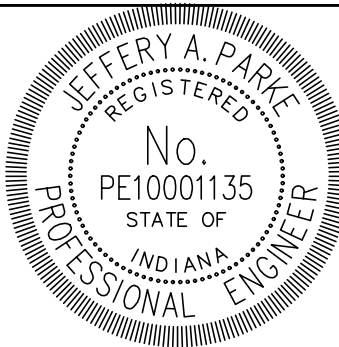


BOTTOM REINFORCING

APPROACH SLAB PLAN - BENT NO.4 - WBL
Scale: 1/4" = 1'-0"

MINIMUM LAP LENGTH
2'-0" (#5E to #5E)

- Notes:
- For General Notes, see Dwg.C4.
 - For Section A-A and Pavement Ledge Detail, see Dwg.C38.
 - For Approach Slab Extension, Type TFC details, see Std.Dwg.No.E609-TBAE-01 thru -03.
 - For Bar Bending Diagrams and Bill of Materials, see Dwg.C38.
 - For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.
 - "E" denotes Epoxy Coated Reinforcing Steel.

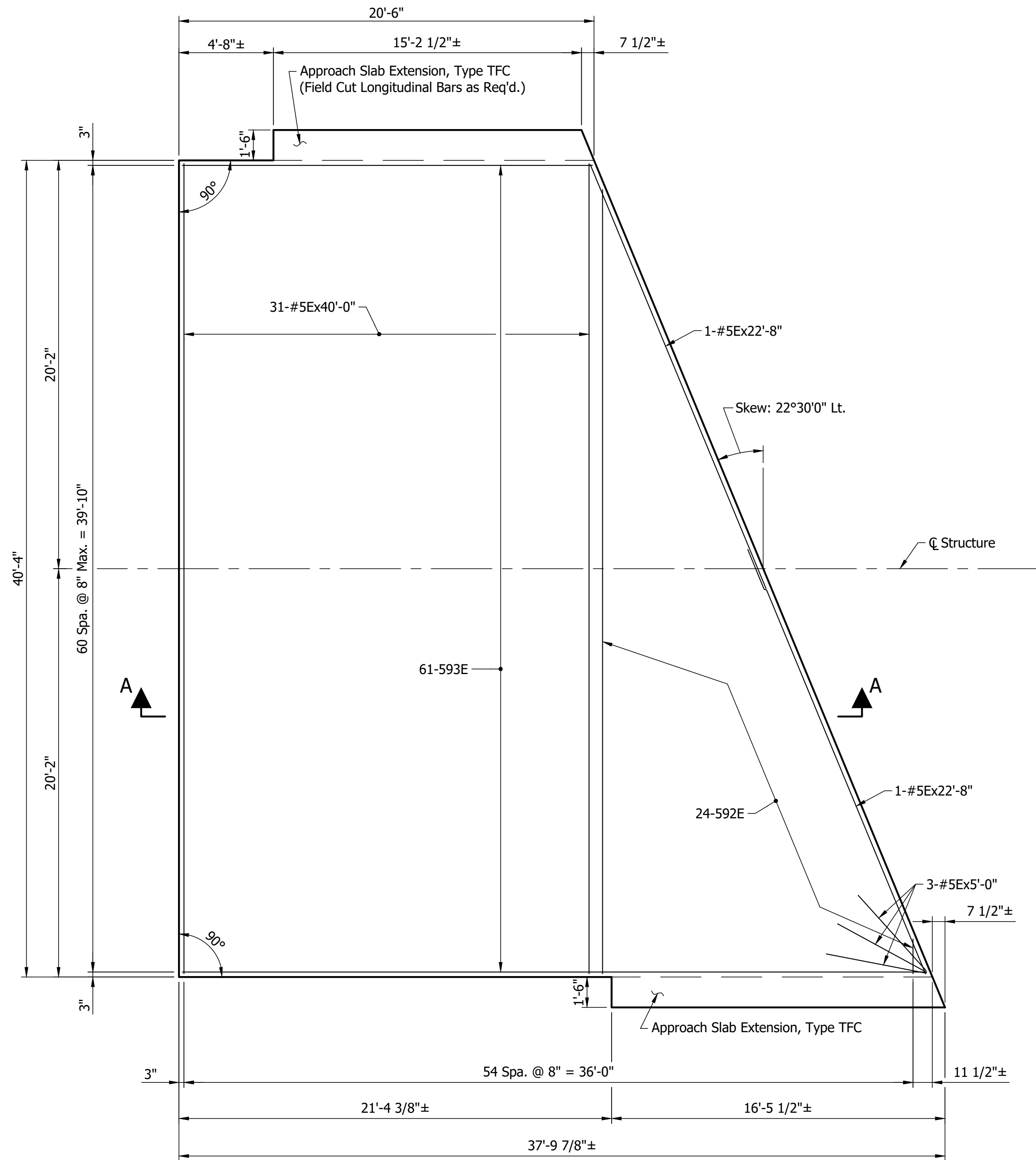


RECOMMENDED FOR APPROVAL	<i>Jeffery A. Parke</i>	DESIGN ENGINEER	9/16/2024	DATE
DESIGNED: AE	DRAWN: WLC			
CHECKED: JAP	CHECKED: JAP			

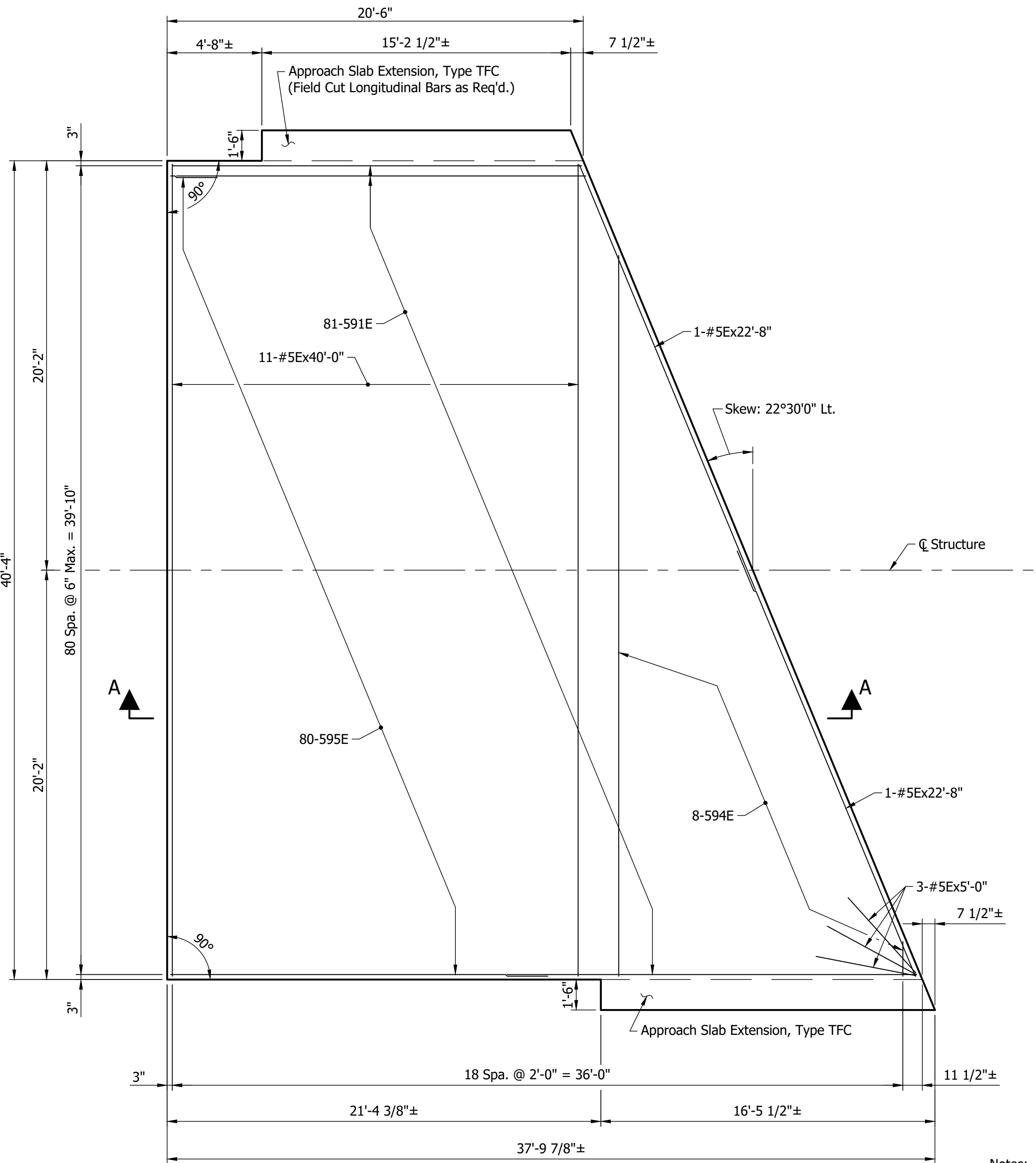
INDIANA
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APPROACH SLAB DETAILS
WESTBOUND LANES

HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	150-22-05230 CEB & CWB
VERTICAL SCALE	DESIGNATION
	2002072 & 2002073
DRAWING NO.	SHEETS
C35 of C38	54 of 68
CONTRACT	PROJECT
R-45584	1900162



TOP REINFORCING

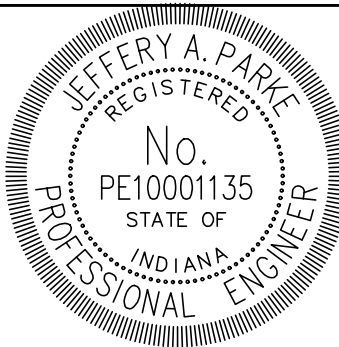


BOTTOM REINFORCING

APPROACH SLAB PLAN - BENT NO.1 - EBL
Scale: 1/4" = 1'-0"

MINIMUM LAP LENGTH
2'-0" (#5E to #5E)

- Notes:
- For General Notes, see Dwg.C4.
 - For Section A-A and Pavement Ledge Detail, see Dwg.C38.
 - For Approach Slab Extension, Type TFC details, see Std.Dwg.No.E609-TBAE-01 thru -03.
 - For Bar Bending Diagrams and Bill of Materials, see Dwg.C38.
 - For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.
 - "E" denotes Epoxy Coated Reinforcing Steel.

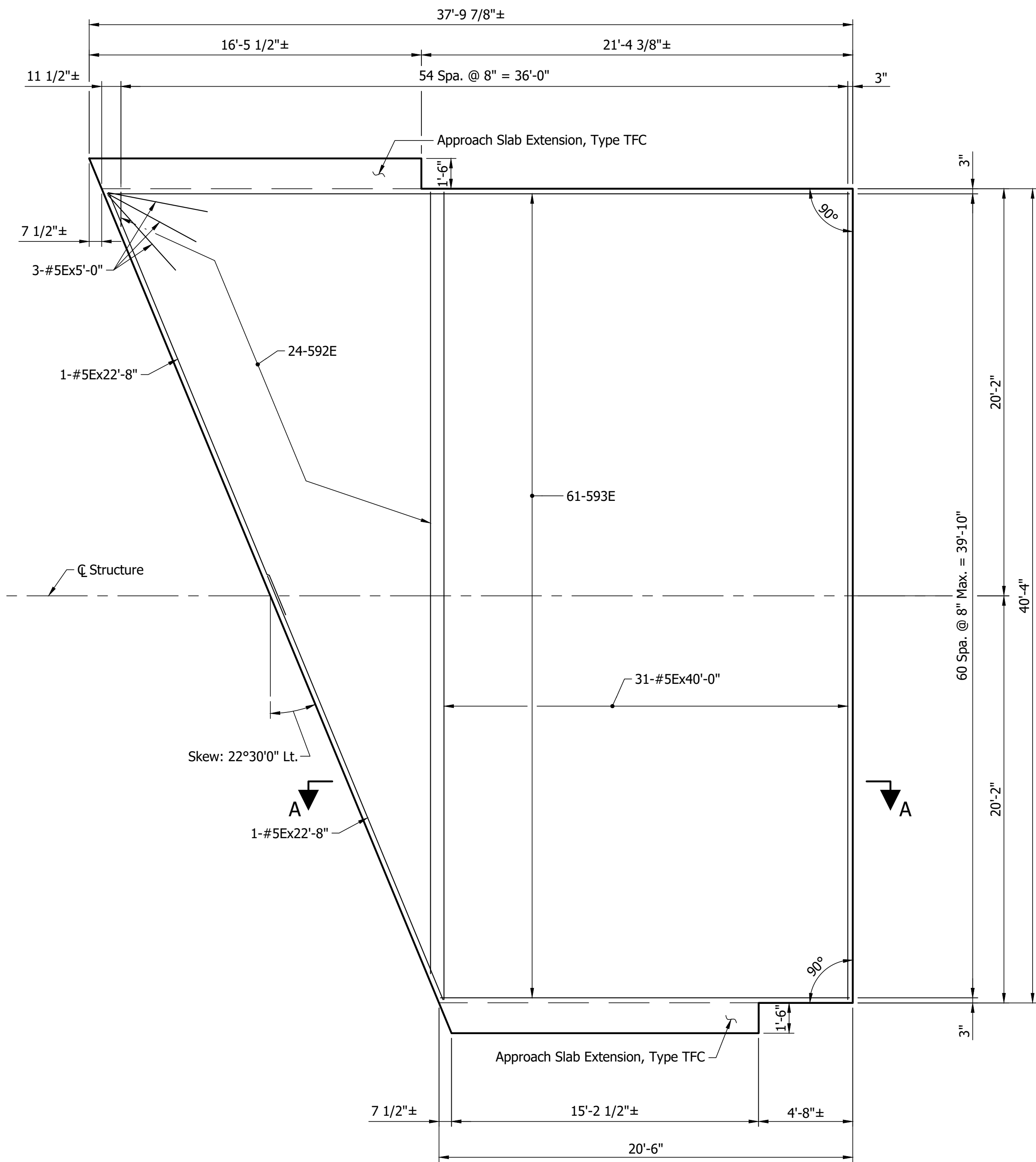


RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED: AE		DRAWN: WLC			
CHECKED: JAP		CHECKED: JAP			

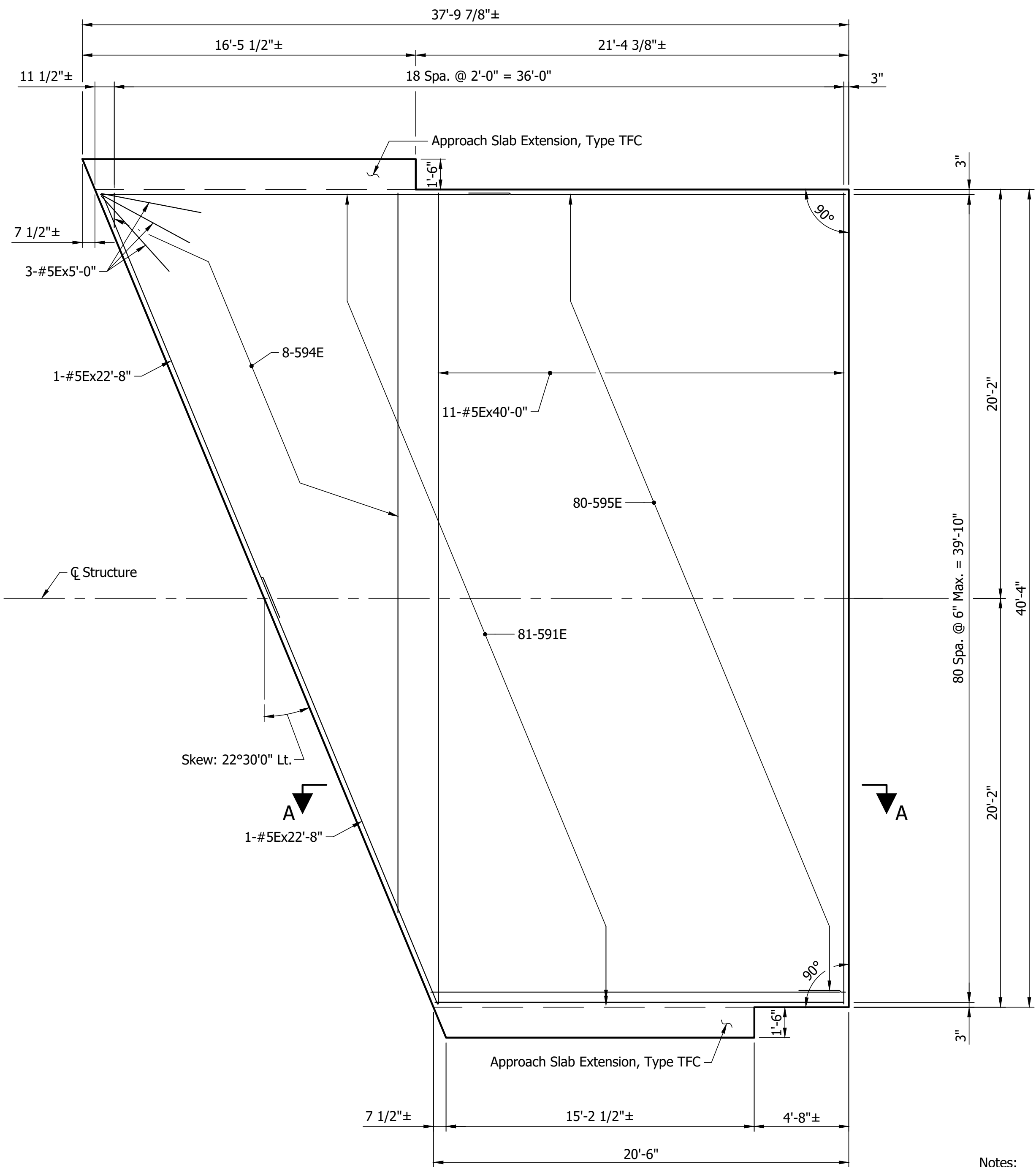
INDIANA
DEPARTMENT OF TRANSPORTATION

APPROACH SLAB DETAILS
EASTBOUND LANES

HORIZONTAL SCALE		BRIDGE FILE	
1/4" = 1'-0"		150-22-05230 CEB & CWB	
VERTICAL SCALE		DESIGNATION	
		2002072 & 2002073	
DRAWING NO.		SHEETS	
C36 of C38		55	of 68
CONTRACT		PROJECT	
R-45584		1900162	



TOP REINFORCING

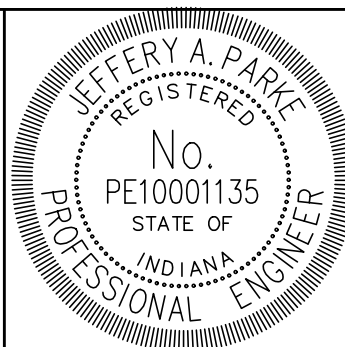


BOTTOM REINFORCING

APPROACH SLAB PLAN - BENT NO.4 - EBL
Scale: 1/4" = 1'-0"

MINIMUM LAP LENGTH
2'-0" (#5E to #5E)

- Notes:
- For General Notes, see Dwg.C4.
 - For Section A-A and Pavement Ledge Detail, see Dwg.C38.
 - For Approach Slab Extension, Type TFC details, see Std.Dwg.No.E609-TBAE-01 thru -03.
 - For Bar Bending Diagrams and Bill of Materials, see Dwg.C38.
 - For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.
 - "E" denotes Epoxy Coated Reinforcing Steel.

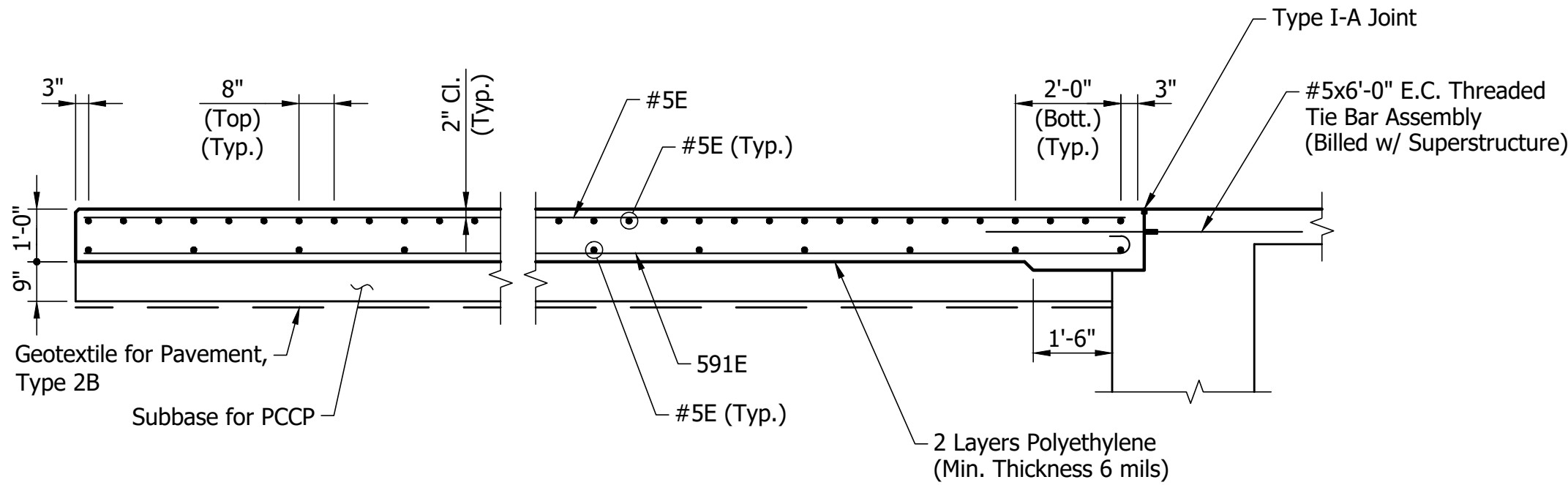


RECOMMENDED FOR APPROVAL	<i>Jeffery A. Parke</i>	DESIGN ENGINEER	9/16/2024	DATE
DESIGNED: AE	DRAWN: WLC			
CHECKED: JAP	CHECKED: JAP			

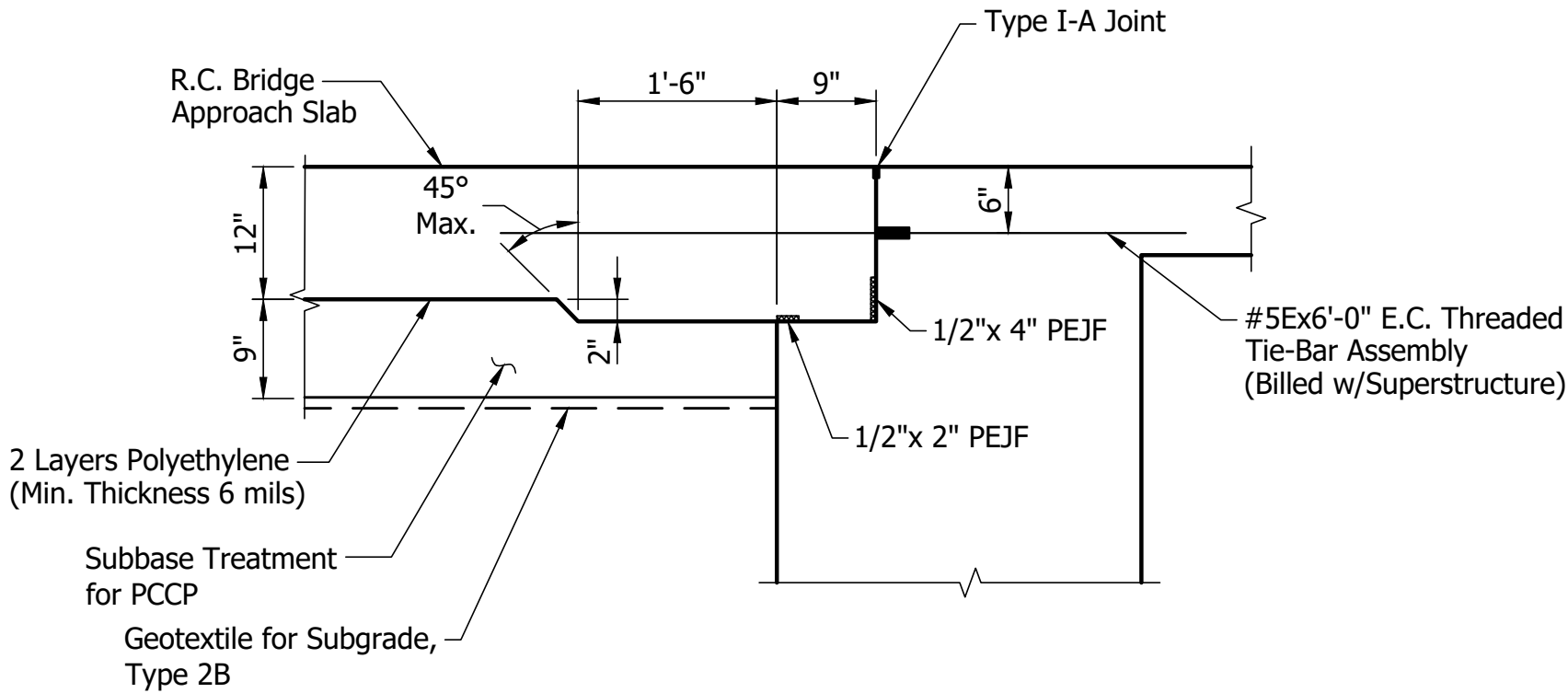
INDIANA
DEPARTMENT OF TRANSPORTATION

APPROACH SLAB DETAILS
EASTBOUND LANES

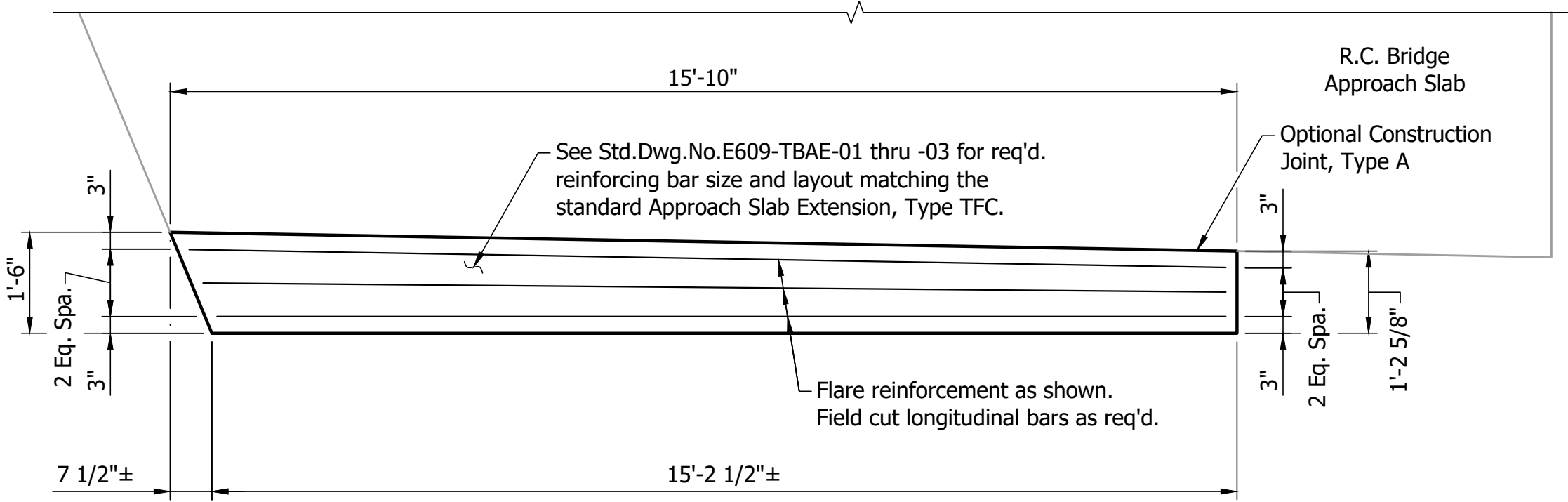
HORIZONTAL SCALE	BRIDGE FILE
1/4" = 1'-0"	150-22-05230 CEB & CWB
VERTICAL SCALE	DESIGNATION
	2002072 & 2002073
DRAWING NO.	SHEETS
C37 of C38	56 of 68
CONTRACT	PROJECT
R-45584	1900162



SECTION A-A
Scale: 3/8"=1'-0"



PAVEMENT LEDGE DETAIL
Scale: 3/4" = 1'-0"



APPROACH SLAB EXTENSION, TYPE TFC, MODIFIED
(Bent No.4 - WBL)
Scale: 1/2"=1'-0"

BILL OF MATERIALS

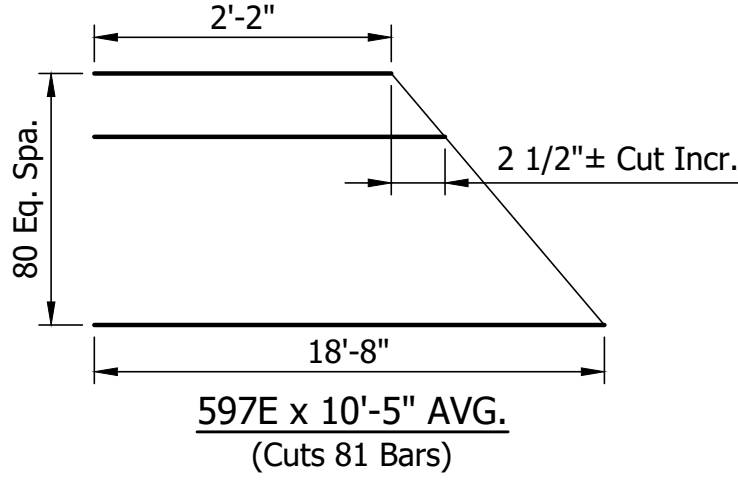
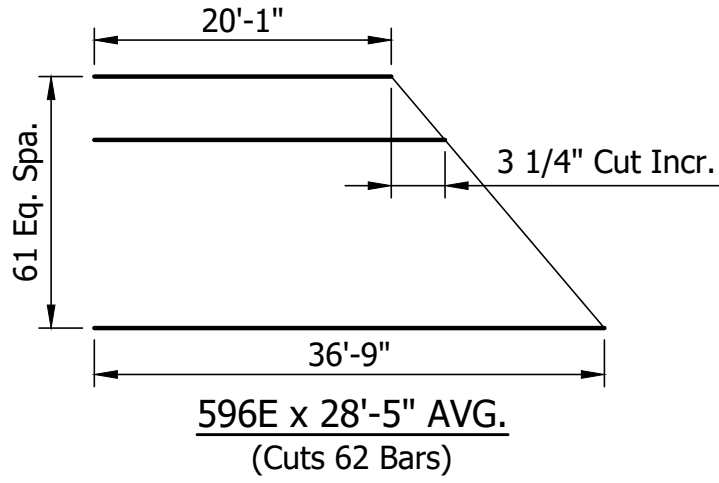
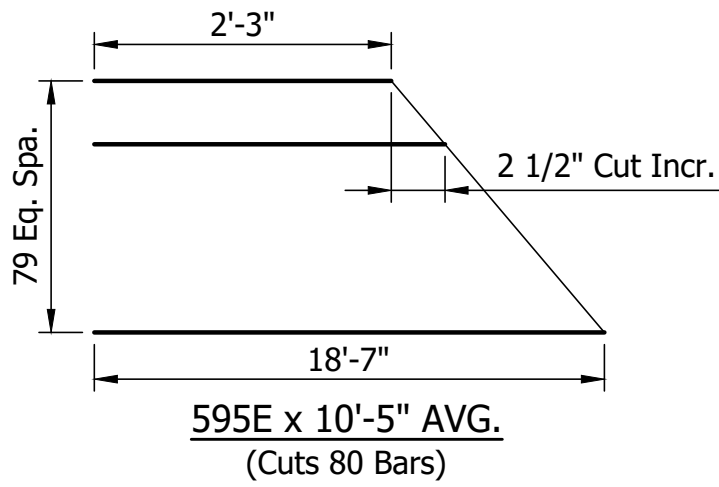
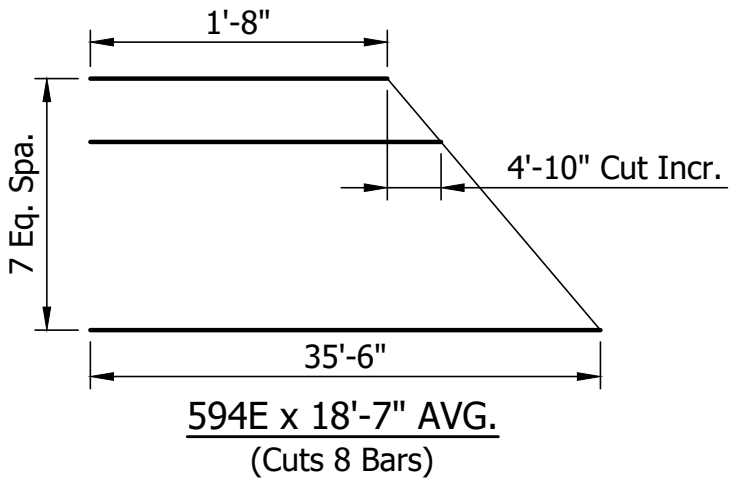
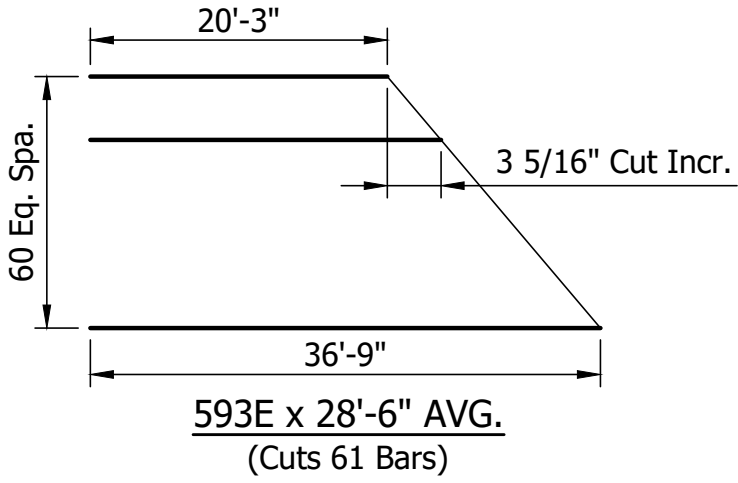
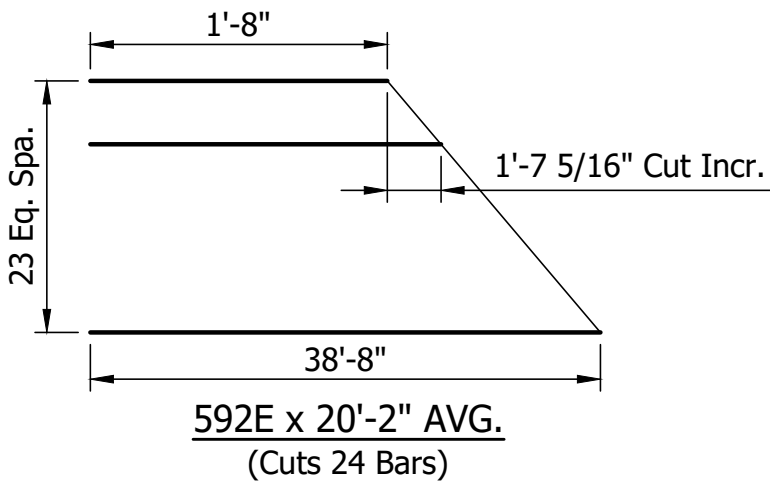
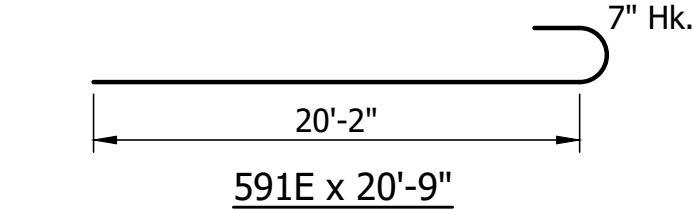
APPROACH SLAB
BENT NO.1 - WBL
(BENT NO.1 - EBL SAME)
(BENT NO.4 - EBL SAME)

REINFORCING BARS			
SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
591E	81	20'-9"	
592E	24	20'-2"	
593E	61	28'-6"	
594E	8	18'-7"	
595E	80	10'-5"	
#5E	42	40'-0"	
#5E	4	22'-8"	
#5E	6	5'-0"	
Total #5E			6973
Total from Br. Railing Transition, TFC (551 lbs x 2)			
			1102
Total from RCBA Extension, Type TFC, (230 lbs x 2)			
			460
Total Epoxy Coated Reinforcing Bars			
			8535
MISCELLANEOUS			
Reinforced Conc. Br. Approach, 12"		135 Sys	
Conc. Bridge Railing Transition, TFC		2 Ea	
Subbase for PCCP		33 Sys	
Geotextile for Pavement, Type 2B		131 Sys	
Surface Seal (Est. Quantity)		200 Sft	
Longitudinal Grooving		130 Sys	
Pavement Removal		128 Sys	

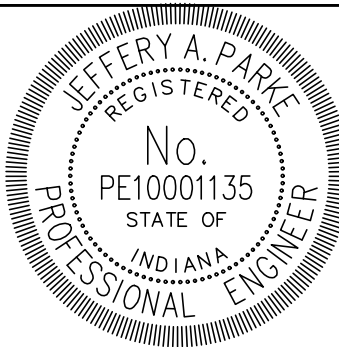
BILL OF MATERIALS

APPROACH SLAB
BENT NO.4 - WBL

REINFORCING BARS			
SIZE or MARK	No. of BARS	LENGTH	WEIGHT (Lbs)
591E	82	20'-9"	
592E	24	20'-2"	
594E	8	18'-7"	
596E	62	28'-5"	
597E	81	10'-5"	
#5E	10	40'-3"	
#5E	32	40'-0"	
#5E	4	22'-8"	
#5E	6	5'-0"	
Total #5E			7034
Total from Br. Railing Transition, TFC (551 lbs x 2)			
			1102
Total from RCBA Extension, Type TFC			
			230
Total from RCBA Extension, Type TFC, Mod.			
			230
Total Epoxy Coated Reinforcing Bars			
			8596
MISCELLANEOUS			
Reinforced Conc. Br. Approach, 12"		135 Sys	
Conc. Bridge Railing Transition, TFC		2 Ea	
Subbase for PCCP		33 Sys	
Geotextile for Pavement, Type 2B		131 Sys	
Surface Seal (Est. Quantity)		200 Sft	
Longitudinal Grooving		130 Sys	
Pavement Removal		127 Sys	



Notes:
For General Notes, see Dwg.C4.
For Approach Slab Extension, Type TFC, see Std.Dwg.No.E609-TBAE-01 thru -03.
For Concrete Bridge Railing Transition, TFC, see Std.Dwg.No.E706-TTFC-01 thru -03.
For Type I-A Joint, see Std.Dwg.No.E609-BRJT-01.
For Reinforcing Bar Notes, see Std.Dwg.No.E703-BRST-01.
"E" denotes Epoxy Coated Reinforcing Steel.



RECOMMENDED FOR APPROVAL		DESIGN ENGINEER		DATE	
DESIGNED: AE		DRAWN: WLC			
CHECKED: JAP		CHECKED: JAP			

INDIANA
DEPARTMENT OF TRANSPORTATION

APPROACH SLAB DETAILS

HORIZONTAL SCALE		BRIDGE FILE	
AS NOTED		150-22-05230 CEB & CWB	
VERTICAL SCALE		DESIGNATION	
AS NOTED		2002072 & 2002073	
DRAWING NO.		SHEETS	
C38 of C38		57 of 68	
CONTRACT		PROJECT	
R-45584		1900162	

SUMMARY OF BRIDGE QUANTITIES

ITEM	CONCRETE			RAILING, CONCRETE, FC	CONC. BRIDGE RAILING TRANSITION, TFC	BARRIER DELINEATOR	REINF. CONC. BRIDGE APPROACH (12")	REINFORCING BARS, EPOXY COATED	REINFORCING BARS	THREADED TIE BAR ASSEMBLY, EPOXY COATED	GRATES, BASINS, & FITTINGS, CAST IRON	PIPE, ROADWAY DRAIN CASTING EXTENSION	SUBBASE FOR PCCP	LONGITUDINAL GROOVING	GEOTEXTILE FOR PAVEMENT, TYPE 2B	AGGREGATE FOR END BENT BACKFILL	FIELD DRILLED HOLE IN CONCRETE	STRUCTURAL MEMBER, CONC. BOX BEAM, CB21X48	GOTEXTILE FOR UNDERDRAINS, TYPE 2A	PATCHING CONCRETE STRUCTURES	BEARING ASSEMBLY, ELASTOMERIC	DRY EXCAVATION	FOUNDATION EXCAVATION, UNCLASSIFIED	SURFACE SEAL*
	CLASS C		CLASS A																					
	SUBSTR.	SUPERSTR.	SUBSTR.																					
	CYS	CYS	CYS																					
WESTBOUND LANES (DES. NO. 2002073)				LFT	EACH	EACH	SYS	LBS	LBS	EACH	EACH	EACH	CYS	SYS	SYS	CYS	EACH	LFT	SYS	SFT	EACH	CYS	CYS	SFT
BENT NO.1			11.9					1472									122						20	195
PIER NO.2			14.6						1621								438			10				12
PIER NO.3			13.4						1604								438			10				12
BENT NO.4			12.0					1489									122						20	195
SUPERSTRUCTURE		199.1						50491		42				626		30		686	80		60			
BRIDGE RAILING				280		10		5098																1785
R.C. BRIDGE APPROACH - BENT NO.1					2		135	8535					33	130	131									200
R.C. BRIDGE APPROACH - BENT NO.4					2		135	8596					33	130	131									200
EASTBOUND LANES (DES. NO. 2002072)																								
BENT NO.1			13.0					1527									122						20	197
PIER NO.2			15.3						1622								438			10				12
PIER NO.3			14.1						1614								438			10				12
BENT NO.4			12.8					1530									122						20	197
SUPERSTRUCTURE		199.3						50591		42	3	3		626		30		686	80		60			
BRIDGE RAILING				280		10		5098																1785
R.C. BRIDGE APPROACH - BENT NO.1					2		135	8535					33	130	131									200
R.C. BRIDGE APPROACH - BENT NO.4					2		135	8535					33	130	131									200
SUBTOTAL (WESTBOUND LANES)		199.1	51.9	280	4	10	270	75681	3225	42			66	886	262	30	1120	686	80	20	60		40	2599
SUBTOTAL (EASTBOUND LANES)		199.3	55.2	280	4	10	270	75816	3236	42	3	3	66	886	262	30	1120	686	80	20	60		40	2603
TOTALS		398.4	107.1	560	8	20	540	151497	6461	84	3	3	132	1772	524	60	2240	1372	160	40	120		80	5202

* Estimated Quantity



RECOMMENDED FOR APPROVAL	<i>Jeffery A. Parke</i> DESIGN ENGINEER	9/16/2024 DATE
DESIGNED: AE	DRAWN: SS	
CHECKED: JAP	CHECKED: JAP	

INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE	BRIDGE FILE
	N/A	150-22-05230 CEB & CWB
BRIDGE SUMMARY OF QUANTITIES	VERTICAL SCALE	DESIGNATION
	N/A	2002072 & 2002073
	DRAWING NO.	SHEETS
		58 of 68
	CONTRACT	PROJECT
	R-45584	1900162

PAVEMENT QUANTITIES AND APPROACH TABLE

LOCATION	DESCRIPTION (APPROACH TYPE OR CLASS)	WIDTH	LENGTH	RADI	DISTANCE BEYOND R/W LINE	SURFACE BEYOND R/W LINE			GRADE		EXCAVATION		HMA FOR APPROACHES			QA/QC HMA FOR ROADS										ASPHALT MATERIAL FOR	JOINT ADHESIVE SURFACE	JOINT ADHESIVE INTERMEDIATE	LIQUID ASPHALT SEALANT, RPE	COMPACTED AGGREGATE FOR BASE NO. 53		COMPACTED AGGREGATE NO.53 SHOULDERS		MILLING TRANSITION	SUBGRADE TREATMENT TYPE 1C	GEOTEXTILE FOR PAVEMENT, TYPE 2B	CONCRETE SIDEWALK, 4"	PAVEMENT REMOVAL	REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														
						COMPACTED AGGREGATE BASE	HMA	PCCP					SURFACE	INTERMED	BASE	SURFACE 3, 58H 9.5MM	SURFACE 2, 70 9.5MM	INTERMD 3, 58H 19.0MM	INTERMD 5, 76 19.0MM	BASE 3, 58S 25.0MM	BASE 5, 64 25.0MM	WIDENING W/ HMA, TYPE C	TACK COAT	JOINT ADHESIVE SURFACE	JOINT ADHESIVE INTERMEDIATE															LIQUID ASPHALT SEALANT, RPE	6" CYS	5" CYS	21" TONS	6" TONS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
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						1 %	2 %	CUT CYS	FILL CYS	TONS	TONS	TONS	165 TONS	165 TONS	275 TONS	385 TONS	1210 TONS	330 TONS	TONS	SYS	LFT	LFT	LFT	6" CYS	5" CYS					21" TONS	6" TONS	SYS	SYS							SYS	SYS	SYS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																											
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STRUCTURE DATA TABLE

STRUCTURE NUMBER	LOCATION				SIZE	PIPE TYPE	MANHOLE, INLET, CATCH BASIN, OR SPECIALTY STRUCTURE AND TYPE	LENGTH	SKEW	FLOW LINE			TOP OF CASTING	SERVICE LIFE	SITE DESIGNATION	pH	BACKFILL METHOD	STRUCTURE BACKFILL		REVTMENT RIPRAP	CONCRETE, CLASS A, FOR STRUCTURES	GEOTEXTILES FOR RIPRAP, TYPE 1A	PIPE END SECTION	GRATED BOX END SECTION			SAFETY METAL END SECTION			CONNECT TO STR.	REMARKS																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																
	STATION	LEFT	CROSS RIGHT	OFFSET						COVER	UP STREAM	DOWN STREAM						TYPE	CYS					TONS	CYS	SYS	EA	TYPE	SLOPE			EA.	SIZE	SLOPE	EA.																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																												
	Line "PR-A" MOT Pre-Phase																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																														

MONUMENT TABLE

LOCATION	OFFSET	TYPE	SECTION CORNER
STA.132+84.00 "PR-A"	0.00'	"C"	
Sta.135+80.00 "PR-A"	0.00'	"C"	
TOTAL		2	

			STRUCTURE NUMBER							
			26	27	M11	M13	M16	M19	M20	
			PIPE TYPE/SHAPE	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR	2/CIR
			SMOOTH PIPE SIZE	18 in.	18 in.	12 in.	12 in.	12 in.	12 in.	12 in.
			CORRUGATED PIPE SIZE							
CONC.	RCP/RCHP (S)	CLASS	II	II	II	II	II	II		
		D _{0.01} RATING	1000	1000	1000	1000	1000	1000		
	NON-REINFORCED CONCRETE PIPE, CLASS 3 (S)		OK	OK	OK	OK	OK	OK		
PLASTIC PIPE	CORRUGATED PE PIPE, TYPE S (S) *			OK						
	PROFILE WALL (RIBBED) PE PIPE (S)*			OK						
	PROFILE WALL (CLOSED) PE PIPE (S)*			OK						
	SMOOTH WALL PE PIPE (S) / MAXIMUM DR			OK/26						
	CORRUGATED PP PIPE (S)			OK						
	PROFILE WALL PVC PIPE (S)			OK						
	SMOOTH WALL PVC PIPE (S)			OK						
CLAY	VITRIFIED CLAY PIPE, EXTRA STRENGTH (S)		OK	OK	OK	OK	OK	OK		
CORRUGATED STEEL PIPE\ PIPE-ARCH	FULLY BIT. PAVED & LINED (S)	CORR. PROFILE THICKNESS								
		CORR. PROFILE THICKNESS								
	ZINC COATED (C)	CORR. PROFILE THICKNESS								
		CORR. PROFILE THICKNESS								
	ZINC COATED W/BPI (LS)	CORR. PROFILE THICKNESS								
		CORR. PROFILE THICKNESS								
	ALUM. COATED TYPE 2 (C)	CORR. PROFILE THICKNESS								
		CORR. PROFILE THICKNESS								
	ALUM. COATED TYPE 2 W/ BPI (C) (S) 1A OR IIA	CORR. PROFILE THICKNESS								
		CORR. PROFILE THICKNESS								
COR. ALUM. PIPE / P-ARCH	POLYMER PRECOATED GALVANIZED (C)	CORR. PROFILE THICKNESS								
		CORR. PROFILE THICKNESS								
	POLYMER PRECOATED GALVANIZED (S) 1A OR IIIA	CORR. PROFILE THICKNESS								
		CORR. PROFILE THICKNESS								
	CORRUGATED ALUM. ALLOY PIPE W/ BPI	CORR. PROFILE THICKNESS								
		CORR. PROFILE THICKNESS								
	CORRUGATED ALUM. ALLOY PIPE (C)	CORR. PROFILE THICKNESS								
		CORR. PROFILE THICKNESS								
	SPIRAL RIB STEEL PIPE	ZINC COATED (SS)	RIB PROFILE THICKNESS							
			RIB PROFILE THICKNESS							
ZINC COATED W/ BPI (SS)		RIB PROFILE THICKNESS								
		RIB PROFILE THICKNESS								
ALUM. COATED TYPE 2 (SS)		RIB PROFILE THICKNESS								
		RIB PROFILE THICKNESS								
POLYMER PRECOATED GALVANIZED (SS)	RIB PROFILE THICKNESS									
	RIB PROFILE THICKNESS									

LOCATION	TEMPORARY SILT FENCE	DRAINAGE BARRIER AT SWALE	TEMPORARY INLET PROTECTION	TEMPORARY SLOPE DRAIN	CHECK DAM	CHECK DAM	TEMPORARY CHECK DAM, REVETMENT RIPRAP	TEMPORARY CHECK DAM, REVETMENT RIPRAP, MODIFIED	TEMPORARY CHECK DAM, TRANSVERSABLE	TEMPORARY FILTER BERM	TEMPORARY SEDIMENT TRAP	TEMPORARY GEOTEXTILE	TEMPORARY FILTER SOCK	TEMPORARY FILTER STONE	SEDIMENT, REMOVE	NO.2 STONE	TEMPORARY MULCH	TEMPORARY SEED MIXTURE	TEMPORARY MULCH STABILIZATION, TYPE ____	MANUFACTURED SURFACE PROTECTION PRODUCT, TYPE ____	FERTILIZER, TEMPORARY
					NO.REQ'D.	SPA.	TON	TON	LFT	LFT	TON	SYS	LFT	TON	CYS	TON	TON	LBS	SYS	SYS	TON
EASTBOUND LANES MAINLINE			1				13					21	177	2	10		2	94		440	1
CONSTRUCTION ENTRANCE												118				50					
WESTBOUND LANES MAINLINE			2										211		10		2	94		328	1
CONSTRUCTION ENTRANCE												118				50					
TOTALS			3				13					257	388	2	20	100	4	188		768	2

LEGEND

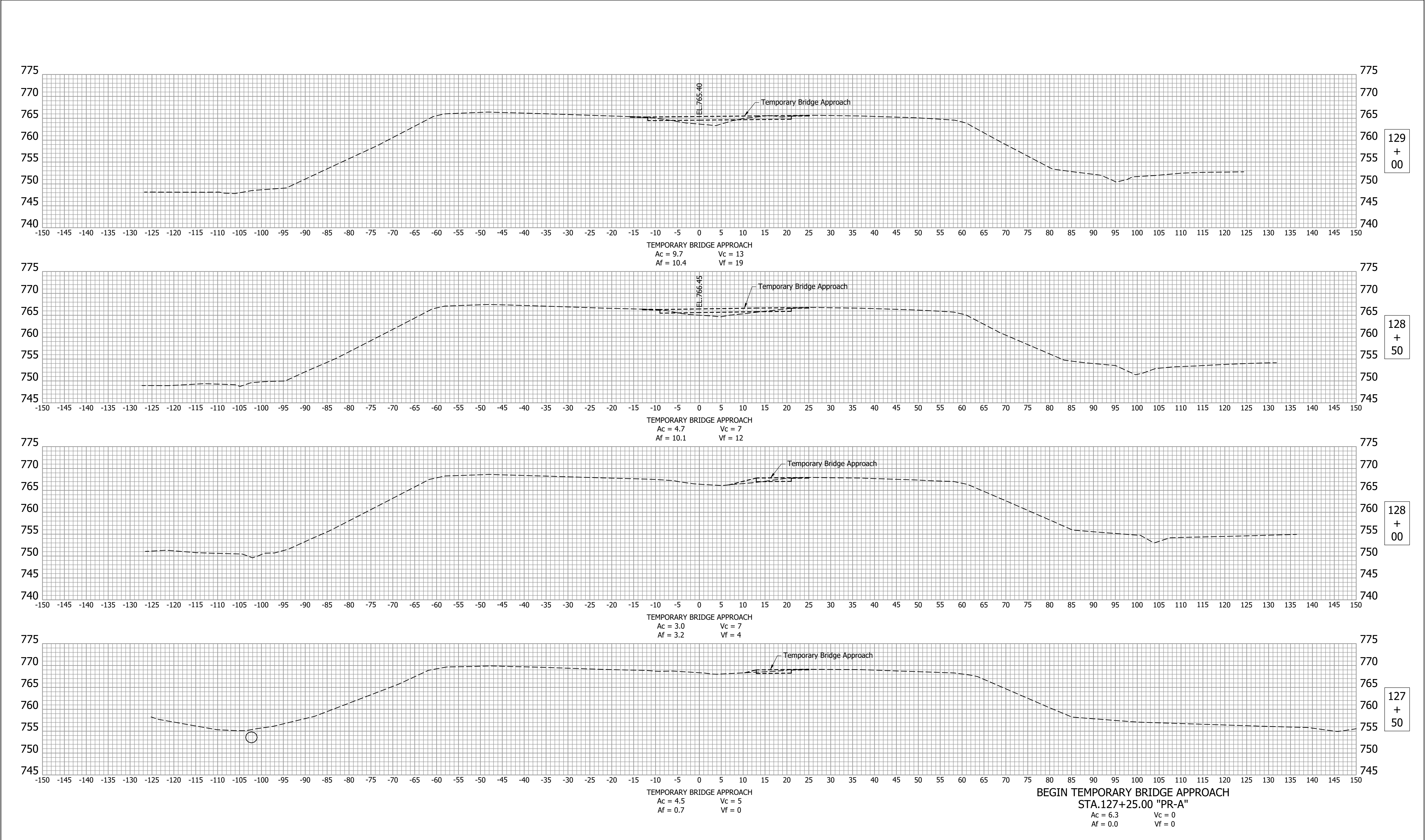
RCP -	REINFORCED CONCRETE PIPE
RCHEP -	REINFORCED CONCRETE HORIZONTAL ELLIPTICAL PIPE
PE -	POLYETHYLENE
DR -	DIMENSION RATIO
PVC -	POLYVINYL CHLORIDE
BIT -	BITUMINOUS
CORR -	CORRUGATION
BPI -	BITUMINOUS PAVED INVERT
ALUM -	ALUMINUM
STR -	STRUCTURAL
CFP -	CONCRETE FIELD PAVING
(S) -	SMOOTH PIPE MATERIAL
(C) -	CORRUGATED PIPE MATERIAL
OK -	ACCEPTABLE FOR USE
(LS) -	LOCK SEAM PIPE REQUIRED
* -	REFER TO STANDARD DRAWING 715-PHCL-18 OR -19 FOR DIAMETER APPROPRIATE FOR PAY ITEM DIAMETER.
** -	TABULATED THICKNESS REFERS TO TOP & SIDE PLATES. BOTTOM PLATES SHALL BE OF NEXT GREATER AVAILABLE THICKNESS.

LOCATION	LINE, PREFORMED PLASTIC								LINE, PAINT		LINE, THERMOPLASTIC					TRANSVERSE MARKING, PREFORMED PLASTIC		PAVEMENT MESSAGE MARKINGS, THERMOPLASTIC		PAVEMENT MESSAGE MARKINGS, PREFORMED PLASTIC		SNOW/PLOWABLE RAISED PAVEMENT MARKER			PRISMATIC REFLECTOR	GROOVING FOR PAVEMENT MARKINGS	MILLED HMA CORRUGATIONS CONVENTIONAL	
	SOLID WHITE 6 IN.	SOLID YELLOW 6 IN.	BROKEN WHITE 6 IN.	SOLID YELLOW 4 IN.	SOLID WHITE 4 IN.	SOLID WHITE 8 IN.	SOLID WHITE 12 IN.	SOLID WHITE 16 IN.	SOLID WHITE 4 IN.	SOLID YELLOW 4 IN.	SOLID WHITE 6 IN.	SOLID YELLOW 6 IN.	SOLID WHITE 24 IN.	BROKEN WHITE 6 IN.	BROKEN YELLOW 4 IN.	STOP LINE 24 IN.	CROSS WALK 6 IN.	WORN ONLY	LANE ARROW	WORN ONLY	LANE ARROW	ONE WAY WHITE	TWO WAY YELLOW /RED	TWO WAY WHITE /RED				
	LFT	LFT	LFT	LFT	LFT	LFT	LFT	LFT	LFT	LFT	LFT	LFT	LFT	LFT	LFT	LFT	LFT	EACH	EACH	EACH	EACH	EACH	EACH	EACH				
EASTBOUND LANES																												
132+84 to 133+16.52 "PR-A"											33	33		9													75	67
133+16.52 to 135+13.04 "PR-A"	198	198	50																									
135+13.04 to 142+50 "PR-A"											84	690		21												9	795	168
WESTBOUND LANES																												
133+15 to 133+48.31 "PR-A"											33	33		9													75	66
133+48.31 to 135+46.56 "PR-A"	198	198	50																									
135+46.56 to 142+00 "PR-A"											84	495		21												15	600	168
TOTALS	396	396	100								234	1251		60												24	1545	469

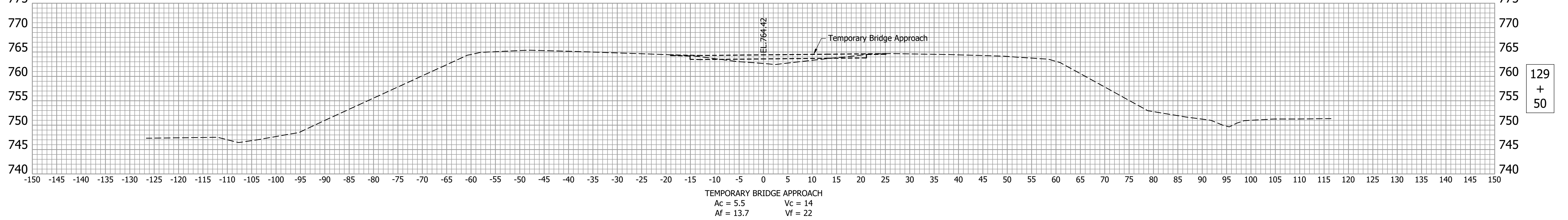
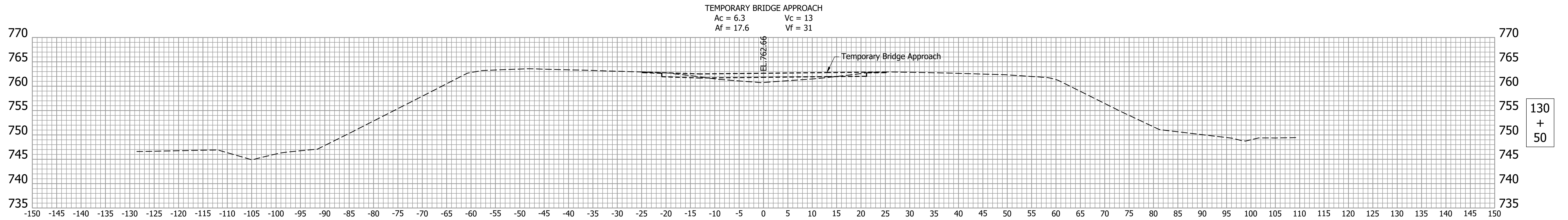
[illegible]

BRIDGE REFERENCE POST MARKER TABLE					
RP/BRP/MP NO.	LOCATION	SIGN CODE	SIZE (IN.)	POST LENGTH (FT)	REFERENCE POST (EACH)
"PR-A"	133+68 Rt.	BRM(171	12x6	6	1
	Rt.	BRM(+45)	12x4		
"PR-A"	134+93 Lt.	BRM(171	12x6	6	1
	Lt.	BRM(+45)	12x4		
TOTAL					2

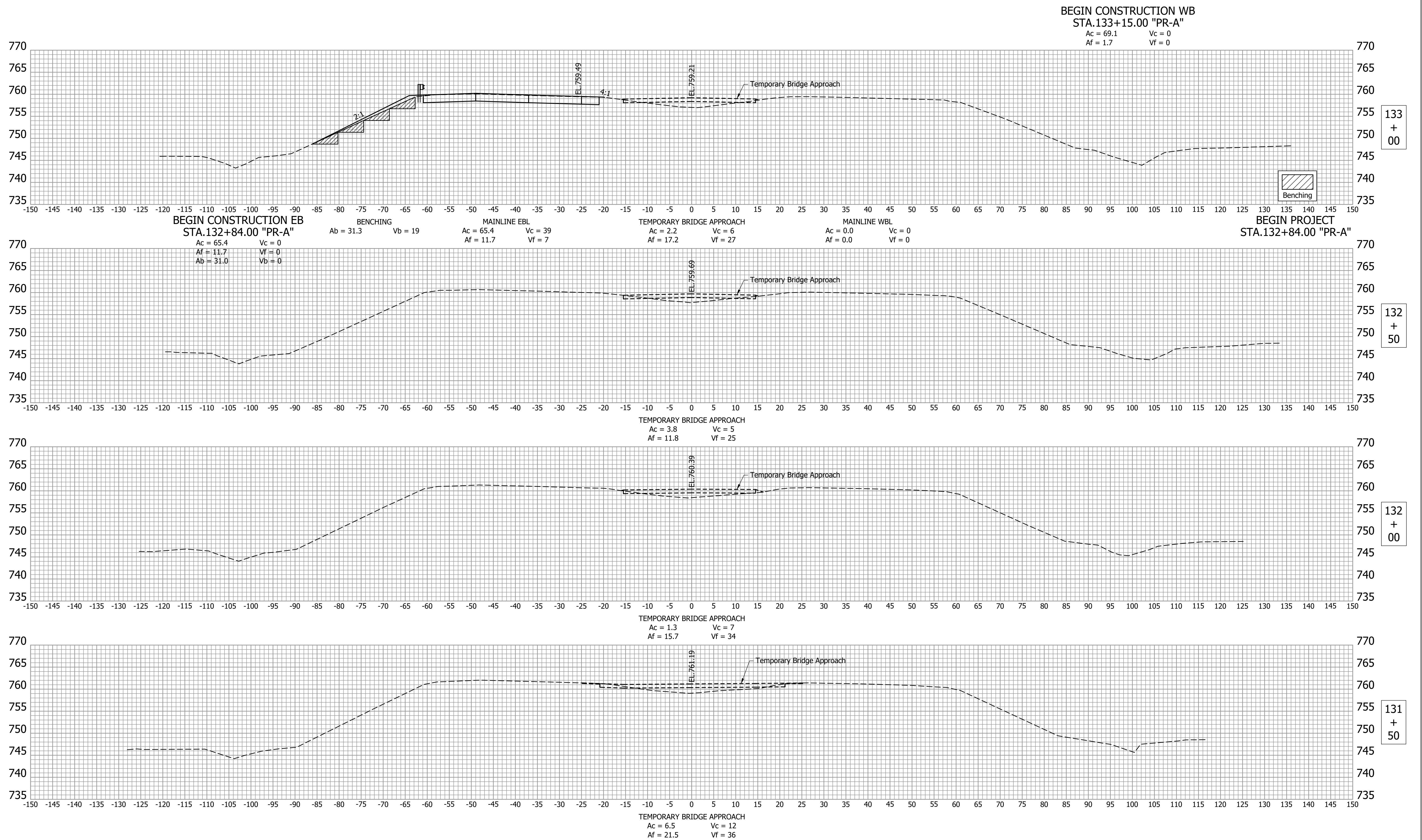
	RECOMMENDED FOR APPROVAL <u>Jeffery A. Pank</u> 9/16/2024 DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE	BRIDGE FILE	
				N/A	150-22-05230 CEB & CWB	
	DESIGNED: AE DRAWN: SS		ROAD SUMMARY OF QUANTITIES	VERTICAL SCALE	DESIGNATION	
	CHECKED: JAP CHECKED: JAP			N/A	2002072 & 2002073	
				DRAWING NO.	SHEETS	
					60	of 68
				CONTRACT	PROJECT	
				R-45584	1900162	



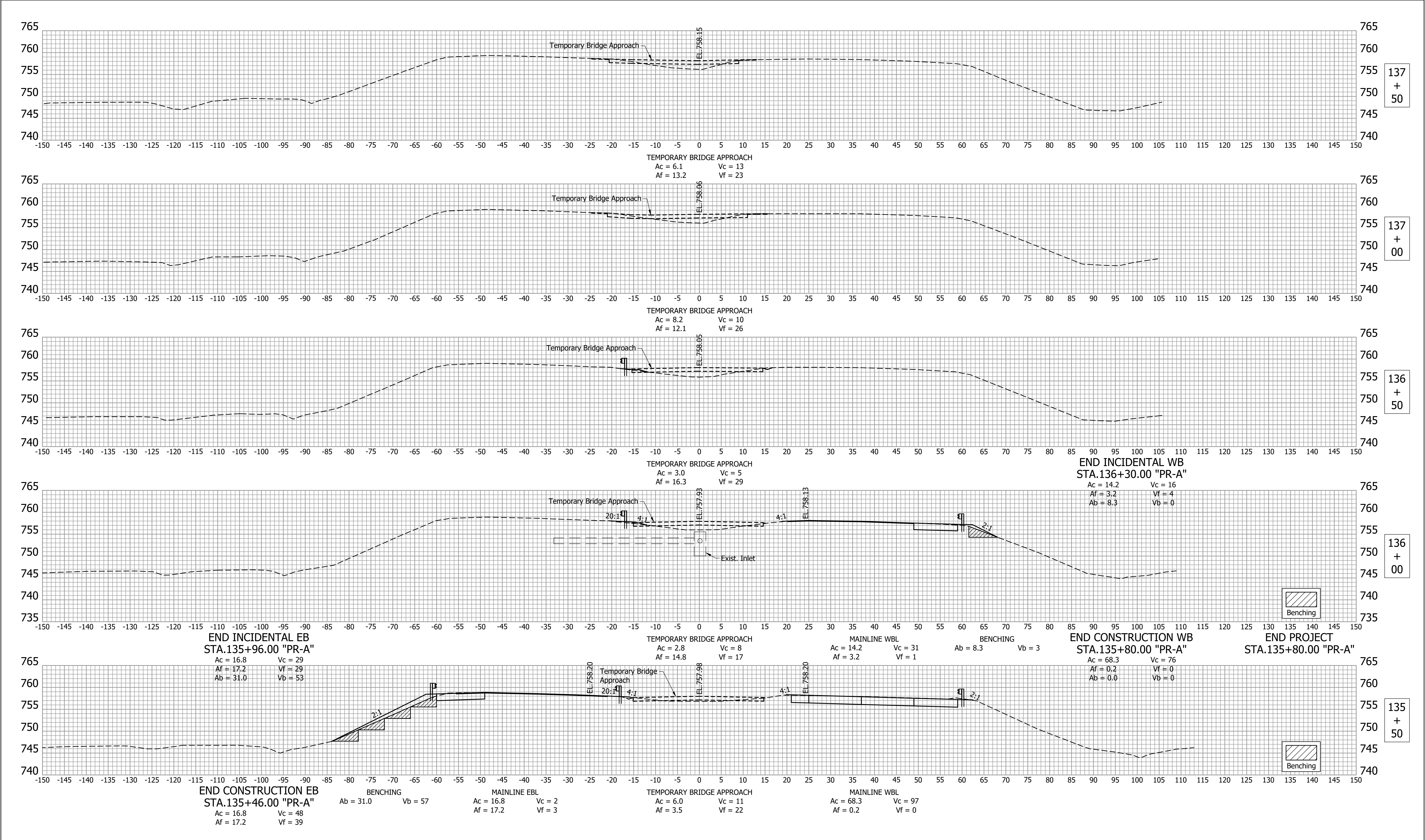
			RECOMMENDED FOR APPROVAL _____		9/16/2024	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE		BRIDGE FILE	
							1" = 10'		150-22-05230 CEB & CWB	
							VERTICAL SCALE		DESIGNATION	
							1" = 10'		2002072 & 2002073	
							DRAWING NO.		SHEETS	
							61		of	68
DESIGNED: <u>AE</u>		DRAWN: <u>WLC</u>				CROSS SECTIONS LINE "PR-A"	CONTRACT		PROJECT	
CHECKED: <u>JAP</u>		CHECKED: <u>JAP</u>					R-45584		1900162	



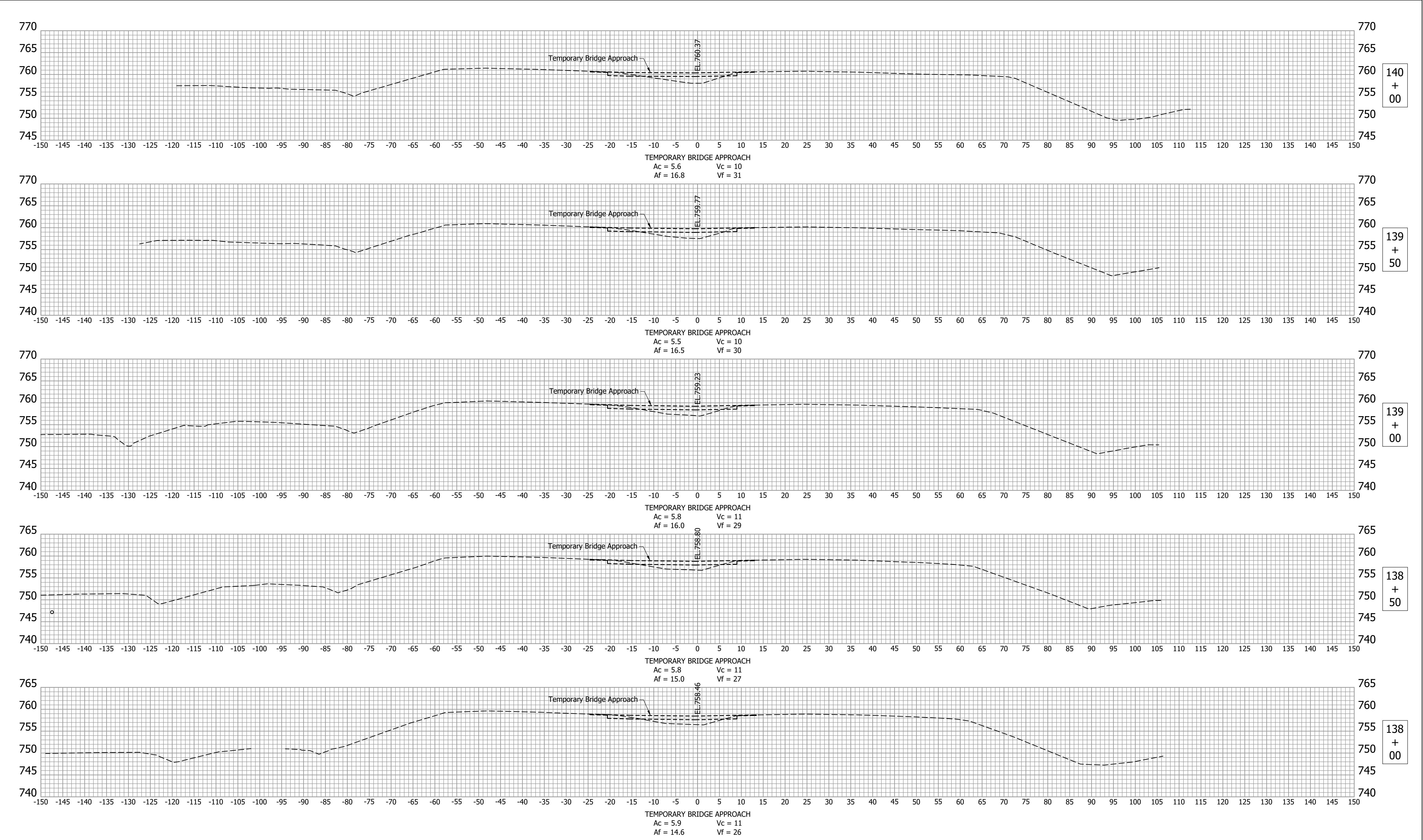
			RECOMMENDED FOR APPROVAL _____ 9/16/2024 DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE		BRIDGE FILE				
						1" = 10'		150-22-05230 CEB & CWB				
						VERTICAL SCALE		DESIGNATION				
					1" = 10'		2002072 & 2002073					
			DESIGNED: <u>AE</u>		DRAWN: <u>WLC</u>		CROSS SECTIONS LINE "PR-A"		DRAWING NO.		SHEETS	
									62		of 68	
CHECKED: <u>JAP</u>		CHECKED: <u>JAP</u>				CONTRACT		PROJECT				
						R-45584		1900162				



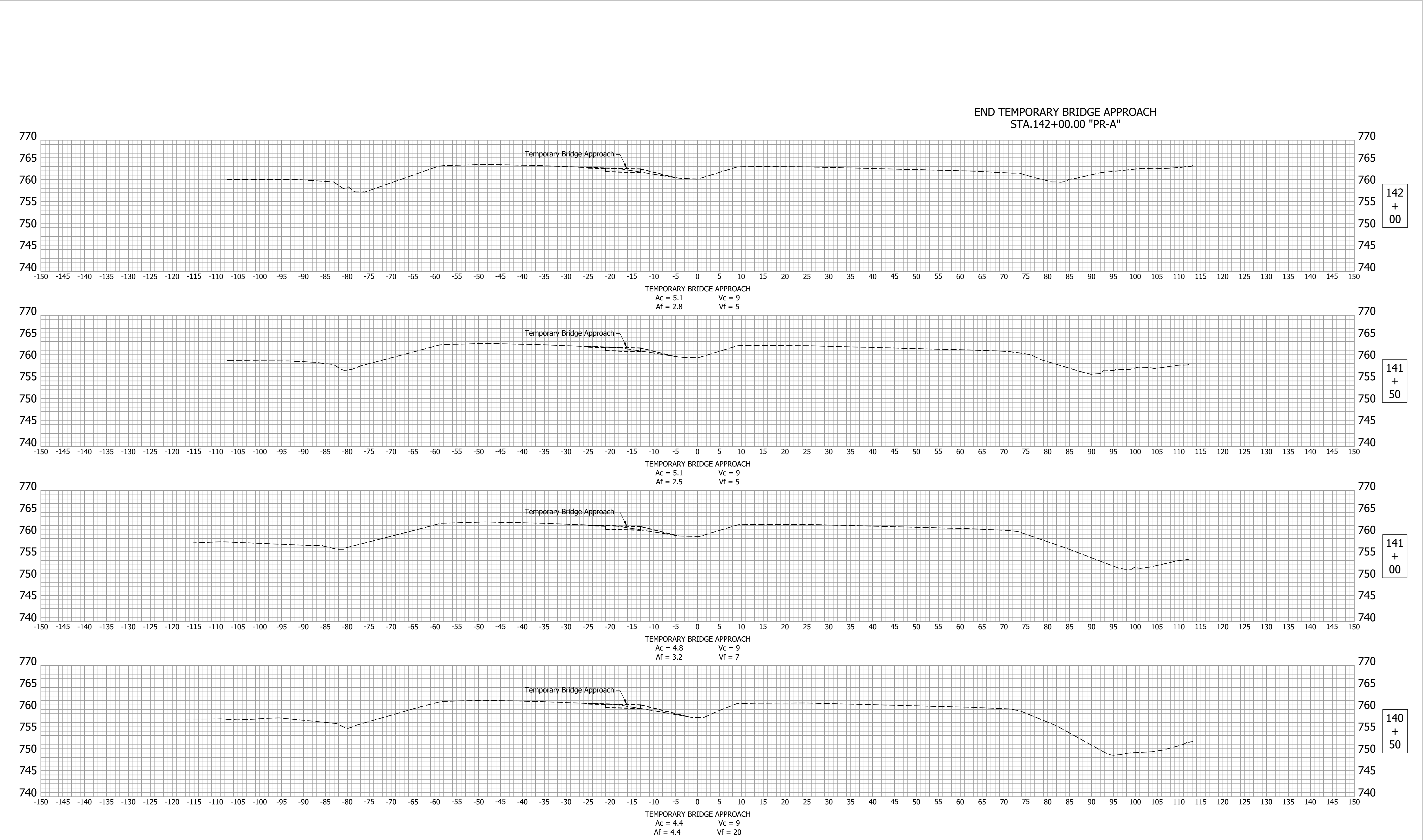
		RECOMMENDED FOR APPROVAL _____ 9/16/2024 DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE _____ BRIDGE FILE 1" = 10' 150-22-05230 CEB & CWB	
					VERTICAL SCALE _____ DESIGNATION 1" = 10' 2002072 & 2002073	
		DESIGNED: <u>AE</u> _____ DRAWN: <u>SS</u> _____ _____		CROSS SECTIONS LINE "PR-A"	DRAWING NO. _____ SHEETS 63 of 68	
		CHECKED: <u>JAP</u> _____ CHECKED: <u>JAP</u> _____			CONTRACT _____ PROJECT R-45584 1900162	



			RECOMMENDED FOR APPROVAL _____ 9/16/2024 DESIGN ENGINEER DATE		INDIANA DEPARTMENT OF TRANSPORTATION		HORIZONTAL SCALE 1" = 10'		BRIDGE FILE 150-22-05230 CEB & CWB			
							VERTICAL SCALE 1" = 10'		DESIGNATION 2002072 & 2002073			
			DESIGNED: <u>AE</u>		DRAWN: <u>SS</u>		CROSS SECTIONS LINE "PR-A"		DRAWING NO.		SHEETS	
			CHECKED: <u>JAP</u>		CHECKED: <u>JAP</u>						65 of 68	
								CONTRACT R-45584		PROJECT 1900162		



		RECOMMENDED FOR APPROVAL	DESIGN ENGINEER	9/16/2024 DATE	INDIANA DEPARTMENT OF TRANSPORTATION				HORIZONTAL SCALE		BRIDGE FILE	
					CROSS SECTIONS LINE "PR-A"				1" = 10'		150-22-05230 CEB & CWB	
									VERTICAL SCALE		DESIGNATION	
									1" = 10'		2002072 & 2002073	
					DRAWING NO.		SHEETS					
		66		of		68						
CONTRACT		PROJECT										
R-45584		1900162										



		RECOMMENDED FOR APPROVAL _____ DESIGN ENGINEER 9/16/2024 DATE	INDIANA DEPARTMENT OF TRANSPORTATION	HORIZONTAL SCALE 1" = 10'		BRIDGE FILE 150-22-05230 CEB & CWB		
				VERTICAL SCALE 1" = 10'		DESIGNATION 2002072 & 2002073		
		DESIGNED: AE	DRAWN: WLC	CROSS SECTIONS LINE "PR-A"	DRAWING NO.		SHEETS	
		CHECKED: JAP	CHECKED: JAP		67 of 68		PROJECT 1900162	

