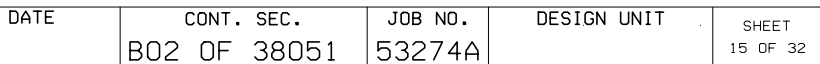
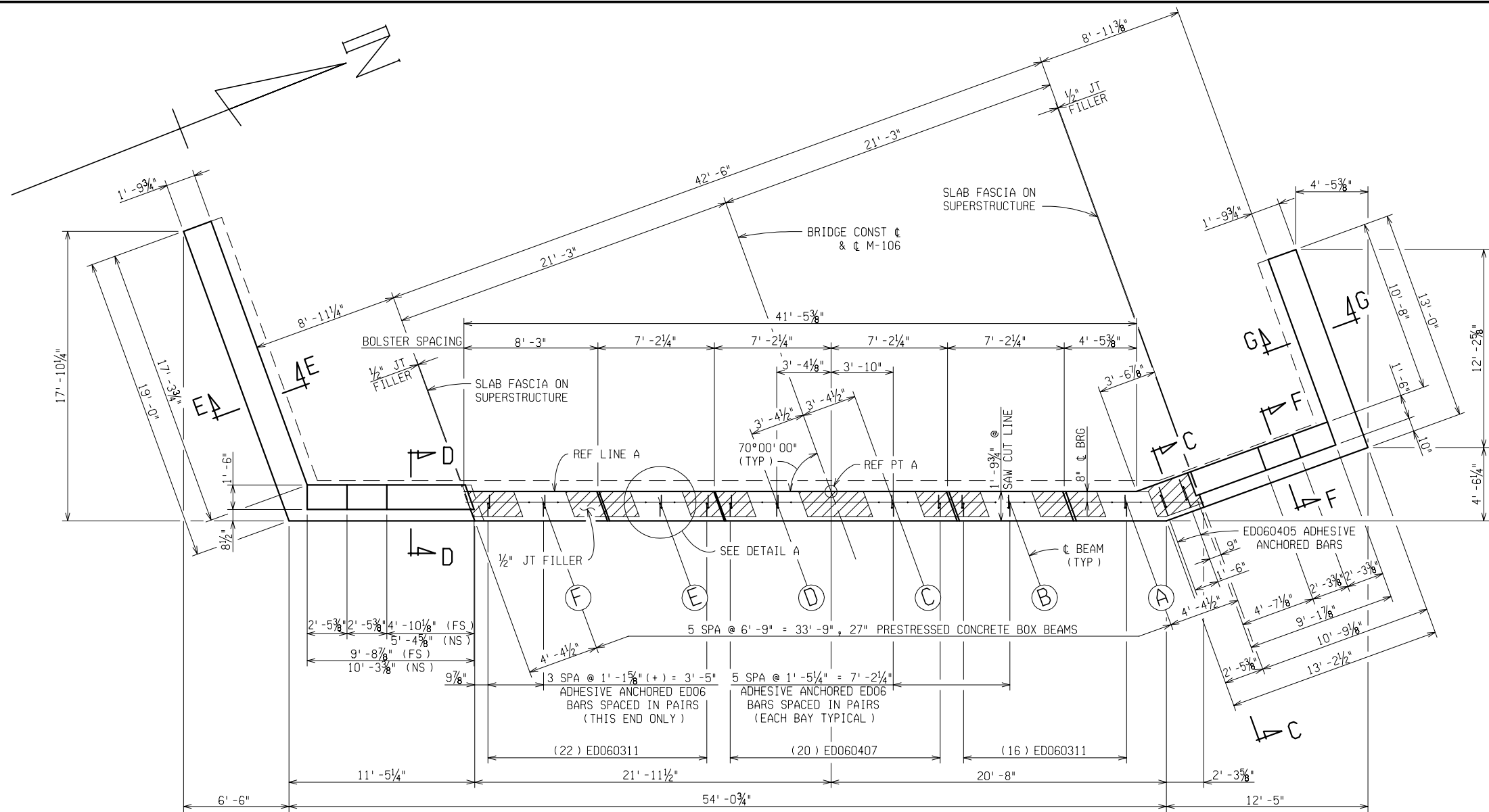


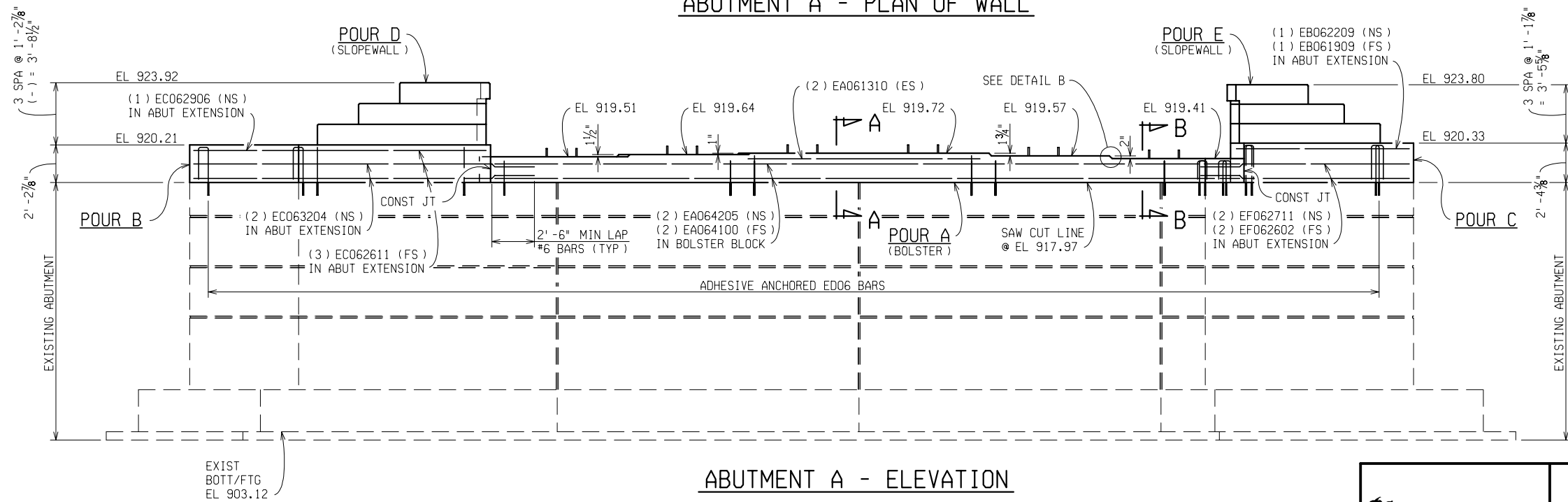
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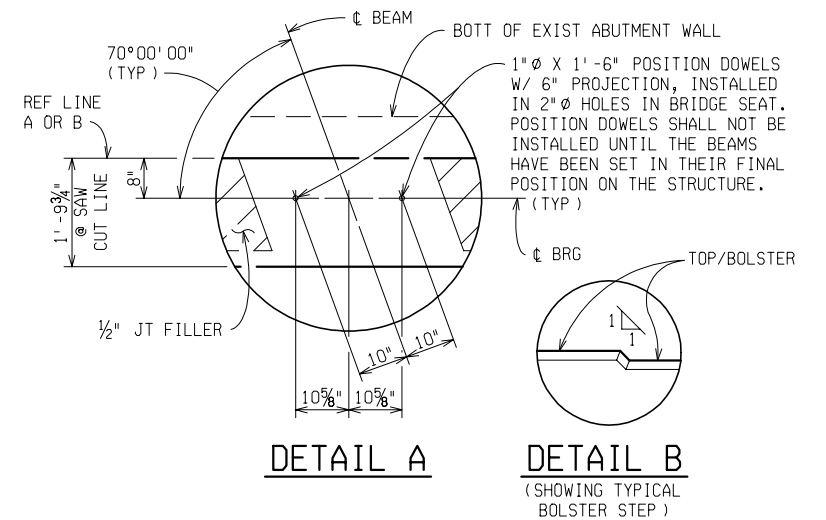
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ABUTMENT A - PLAN OF WALL



ABUTMENT A - ELEVATION



MISCELLANEOUS QUANTITIES				
ABUT A	ABUT B	TOTAL	UNIT	ITEM
176	176	352	Sft	Joint Waterproofing
16.5	16.5	33	Cyd	Substructure, Conc
128	128	256	Ea	Adhesive Anchoring of Vert Bar, 3/4 inch

SUBSTRUCTURE CONCRETE QUANTITIES (FOR INFORMATION ONLY)		
POUR	ABUT A	ABUT B
A	5.0	5.0
B	4.7	4.5
C	3.9	4.1
D	1.6	1.6
E	1.3	1.3
TOTAL	16.5	16.5
GRAND TOTAL	33.0 CYD	

NOTES:

JWP DENOTES JOINT WATERPROOFING.

NS DENOTES NEAR SIDE.

FS DENOTES FAR SIDE.

ES DENOTES EACH SIDE.

FOR BEVEL AND MOLDING DETAILS, SEE STANDARD PLAN B-103-SERIES.

LOW TEMPERATURE PROTECTION OF CONCRETE SHALL BE APPLIED ACCORDING TO SECTION 706.03J, OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION. LOW TEMPERATURE PROTECTION OF CONCRETE WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE BID ITEM "Substructure Conc".

SYSTEMS FOR ANCHORING HORIZONTAL OR VERTICAL REINFORCEMENT IN EXISTING CONCRETE SHALL BE CHOSEN FROM THE QUALIFIED PRODUCTS LIST IN THE CURRENT MDT MATERIALS SAMPLING GUIDE.

ALL CONCRETE ANCHORS SHALL BE INSTALLED ACCORDING TO MANUFACTURER'S RECOMMENDATIONS, EXCEPT AS MODIFIED IN THESE PLANS.

REVISIONS			
NO.	DESCRIPTION	DATE	BY



ABUTMENT DETAILS				
DATE	CONT. SEC.	JOB NO.	DESIGN UNIT	SHEET
	B02 OF 38051	53274A		16 OF 32

FILE NAME: 60238051ab3.dgn

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DATE:

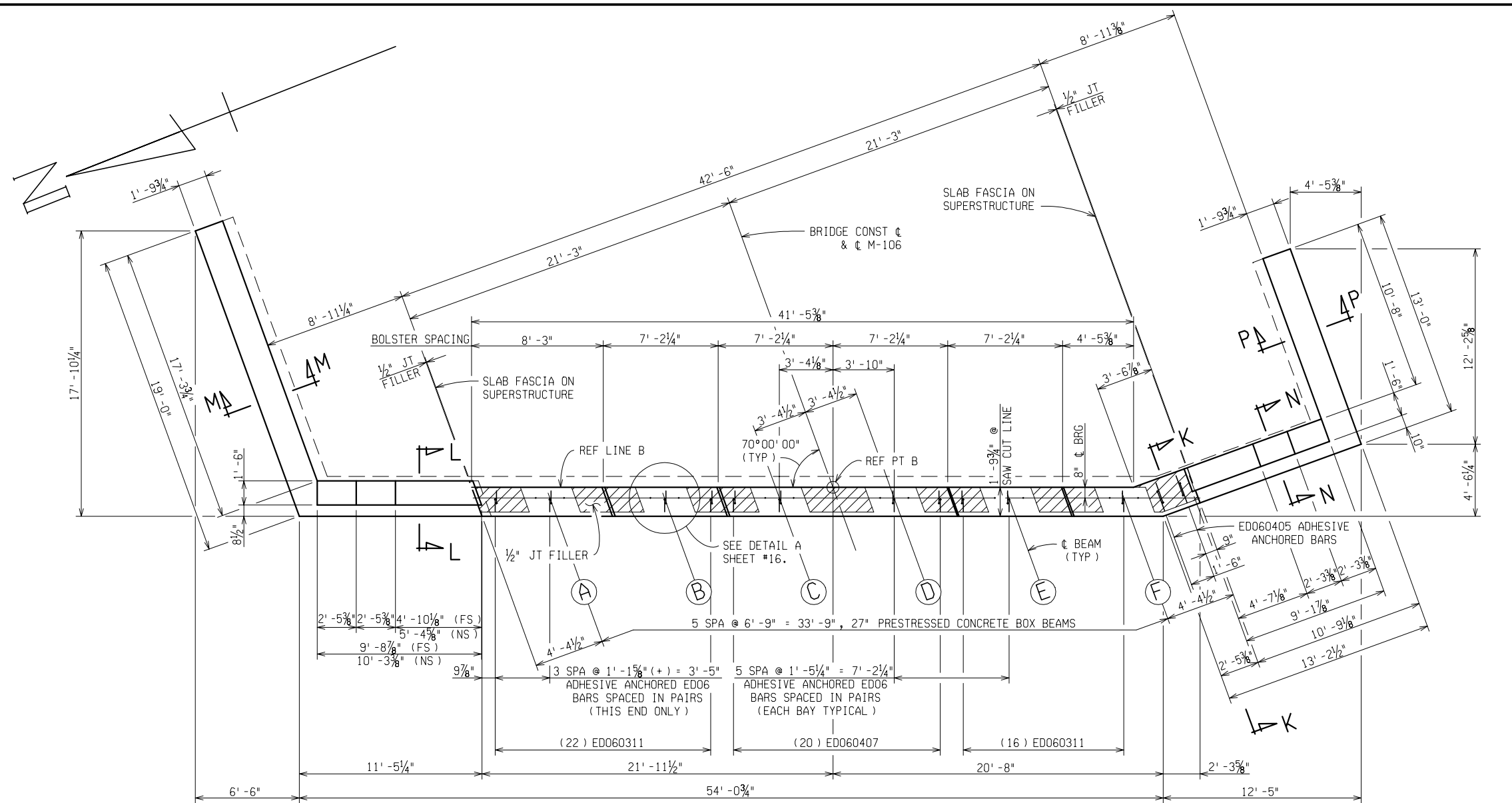
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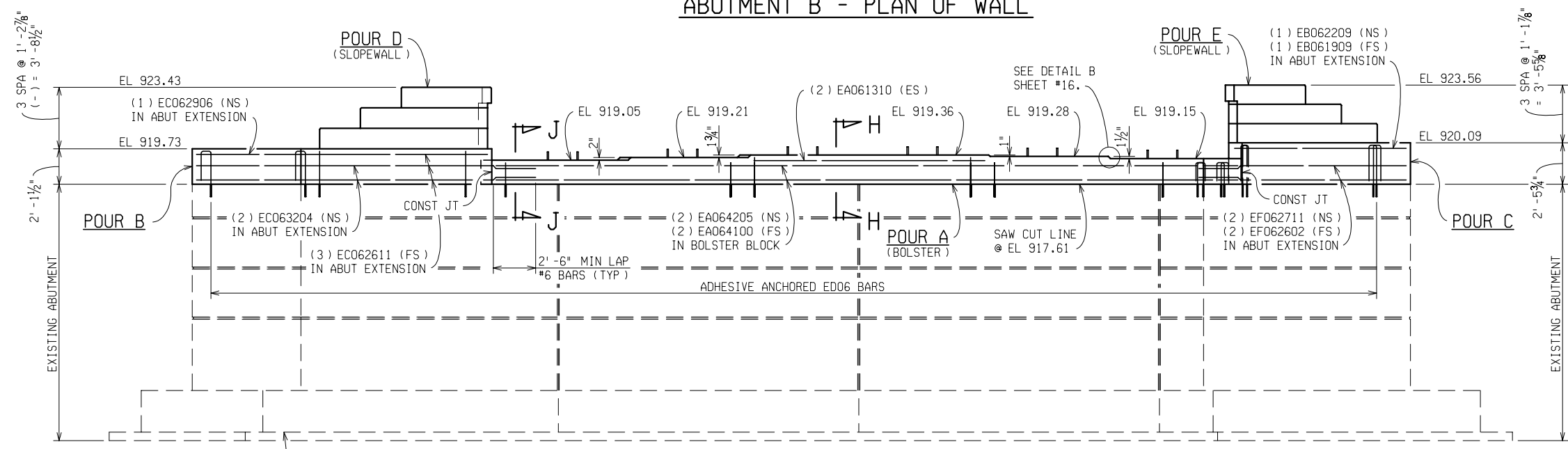
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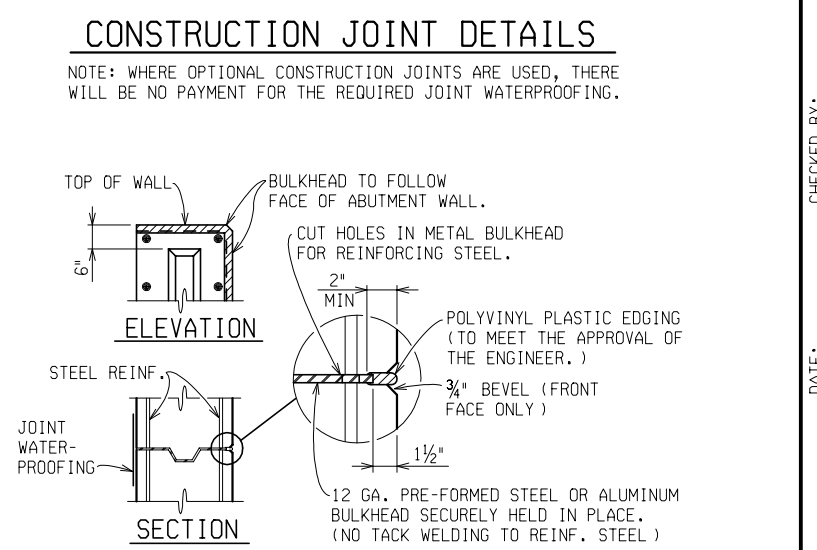
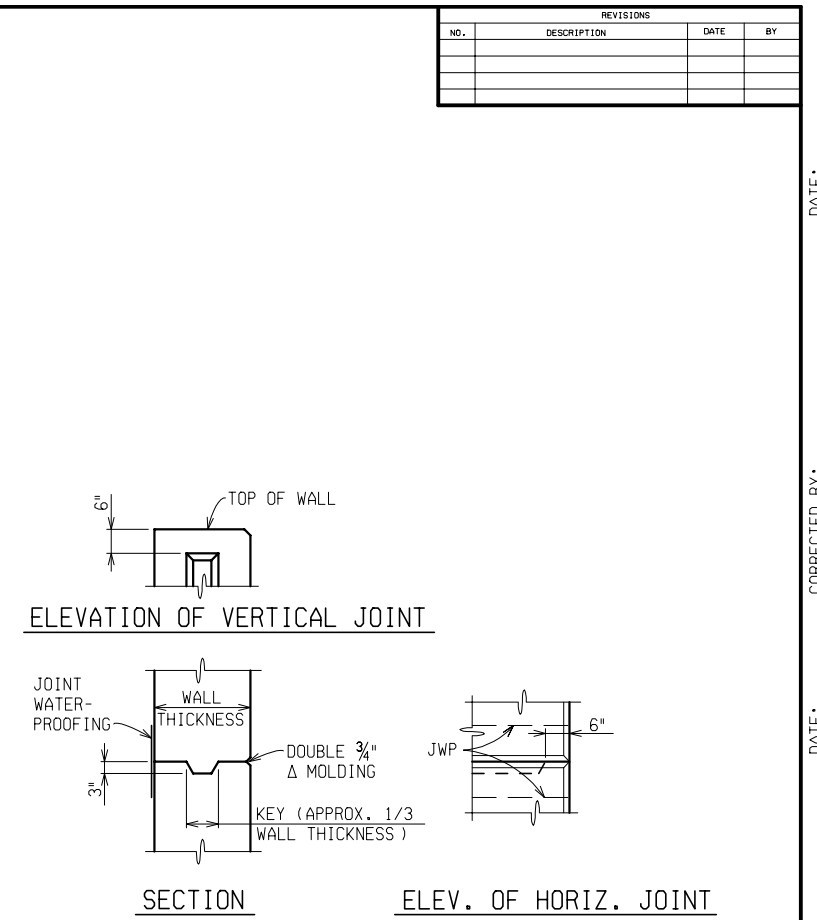
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ABUTMENT B - PLAN OF WALL



ABUTMENT B - ELEVATION



NOTES: METAL BULKHEAD MAY BE USED AS ALTERNATE CONSTRUCTION JOINT AT CONTRACTOR'S EXPENSE. CARE IS TO BE USED IN CASTING CONCRETE AROUND BULKHEAD TO PREVENT DISLOCATION OR MISALIGNMENT OF THE BULKHEAD.



Michigan Department of Transportation

ABUTMENT DETAILS				
DATE	CONT. SEC.	JOB NO.	DESIGN UNIT	SHEET
	B02 OF 38051	53274A		17 OF 32

FILE NAME: 60238051ab3.dgn
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DATE:
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DATE:
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DATE:

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REVISIONS			
NO.	DESCRIPTION	DATE	BY

DATE:

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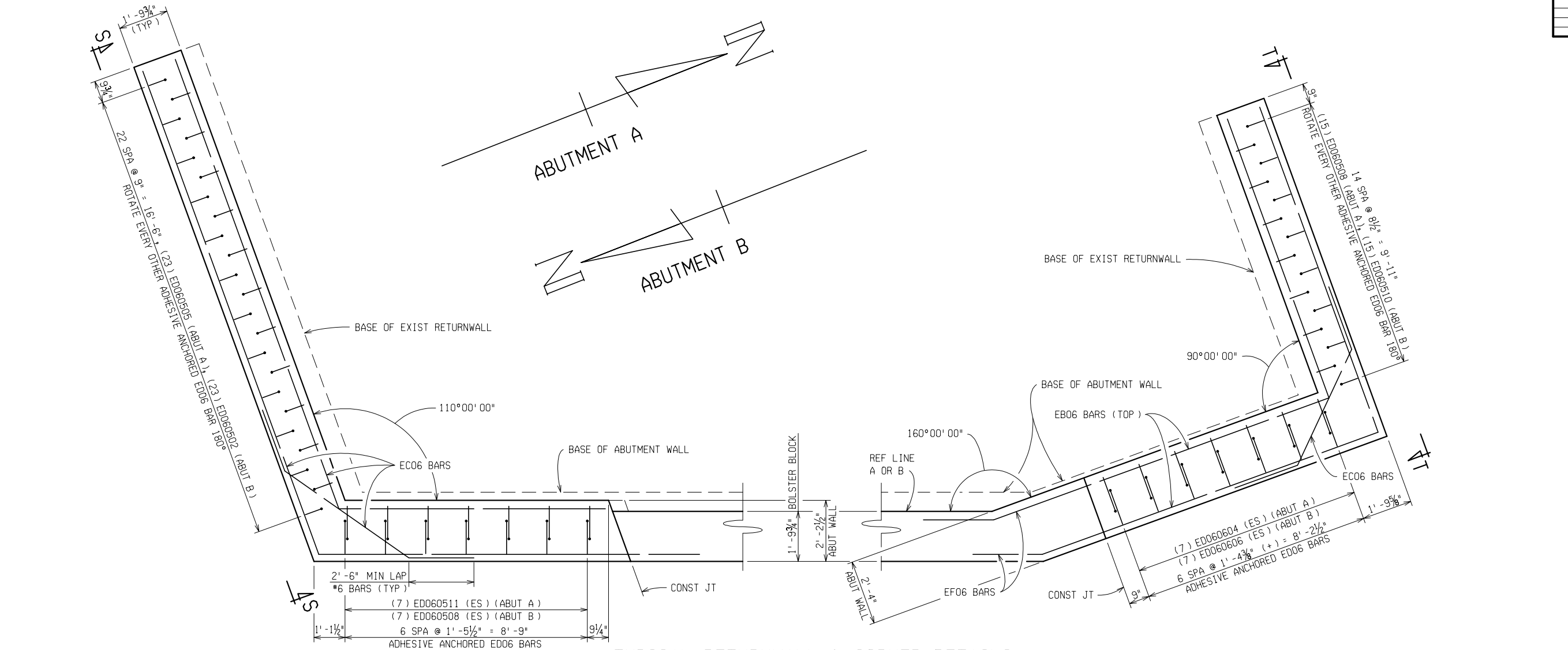
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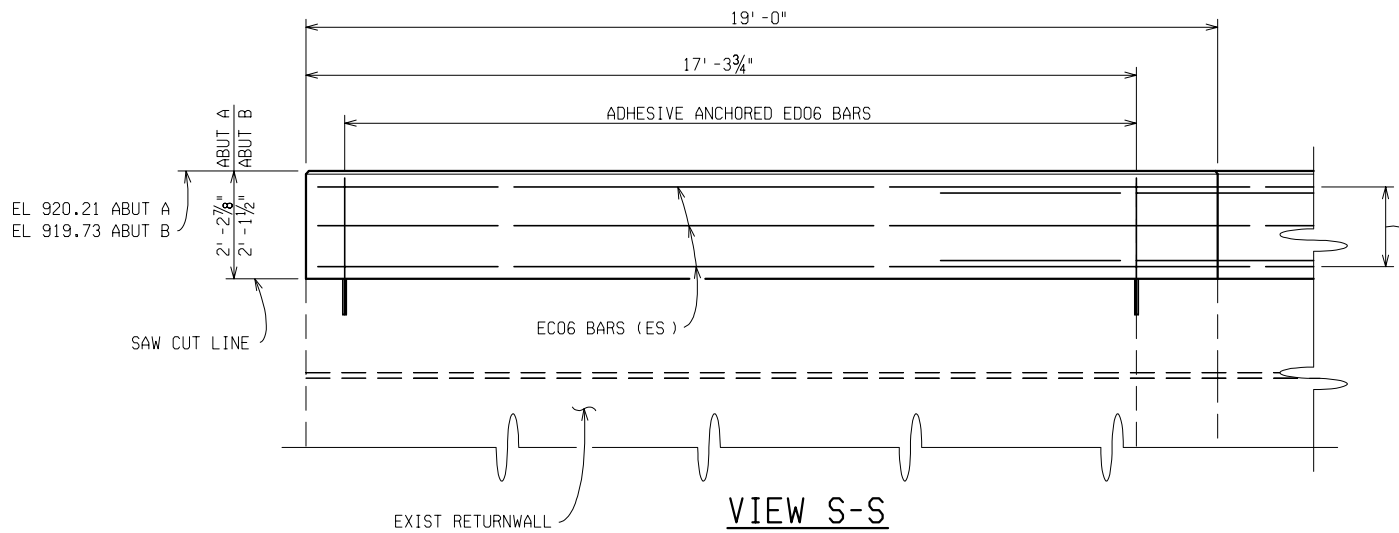
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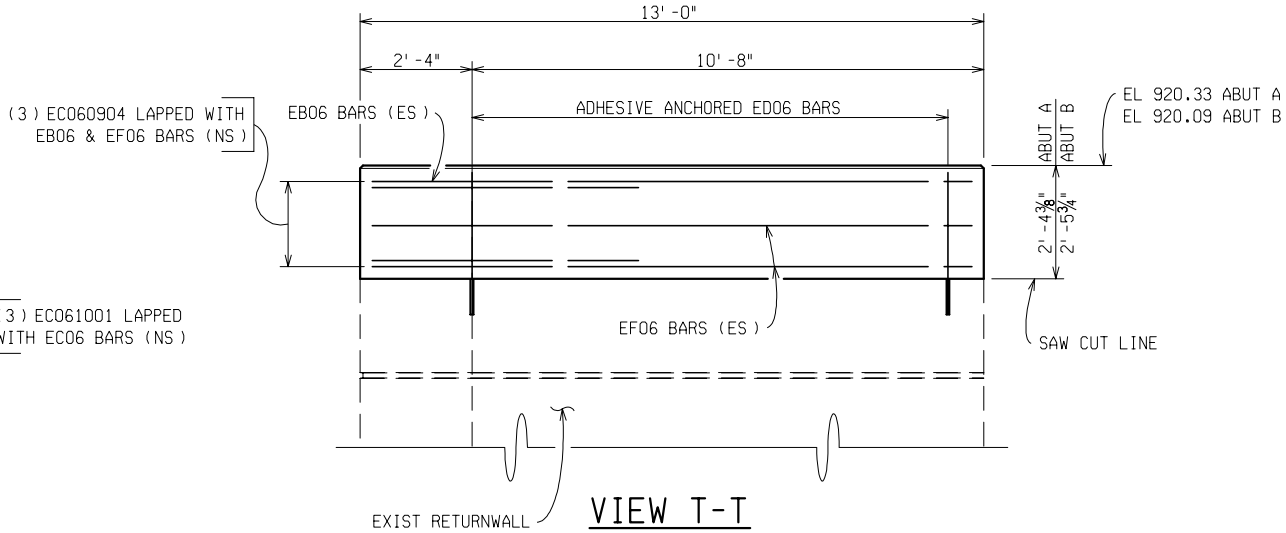


TYPICAL RETURNWALL & CORNER DETAILS

(ABUTMENTS A & B)



VIEW S-S



VIEW T-T

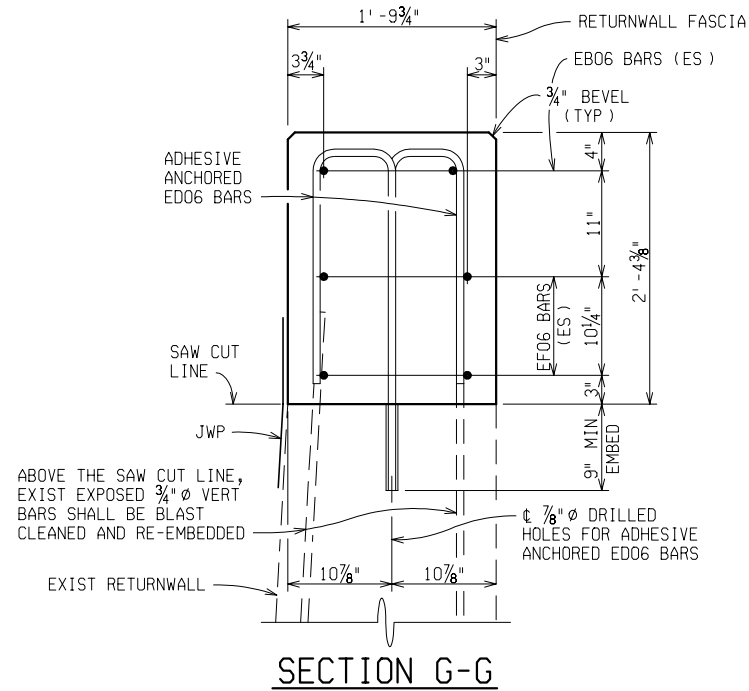
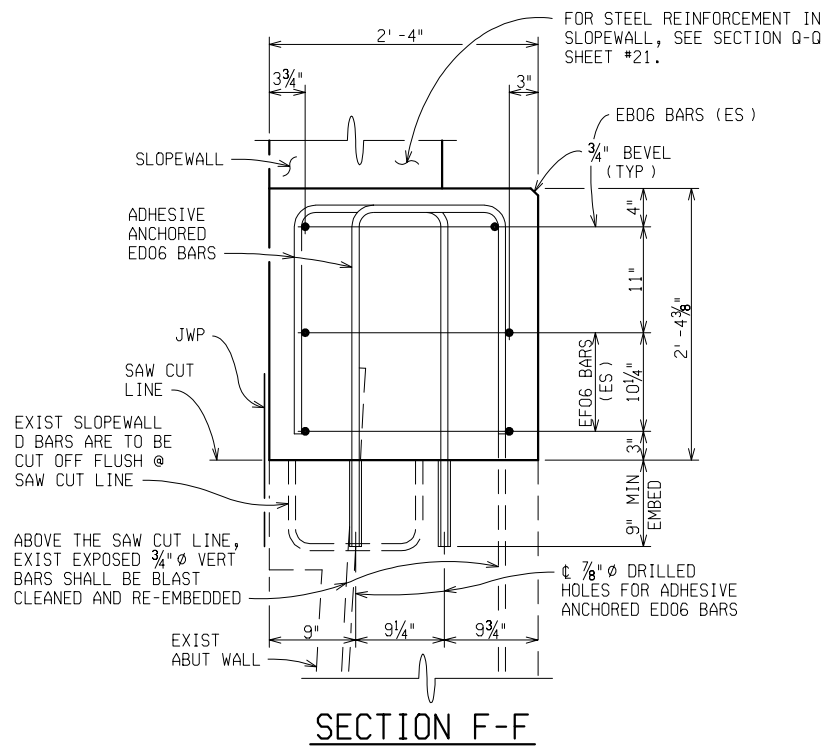
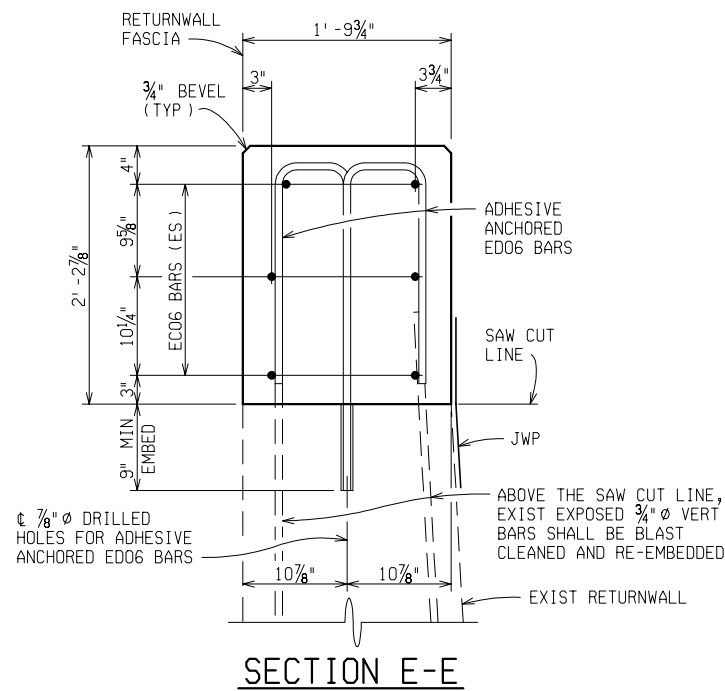
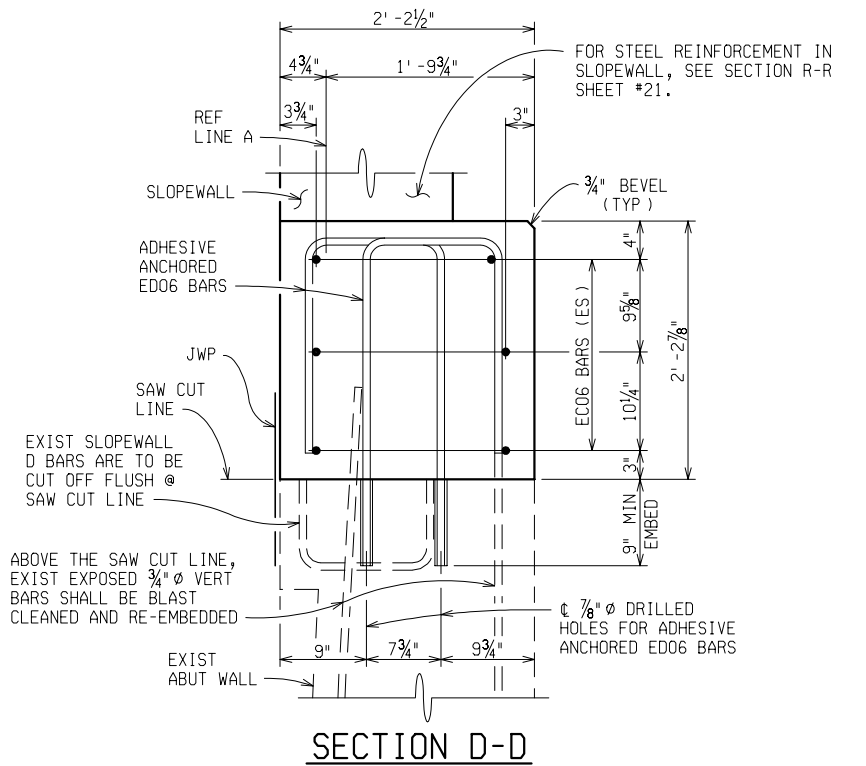
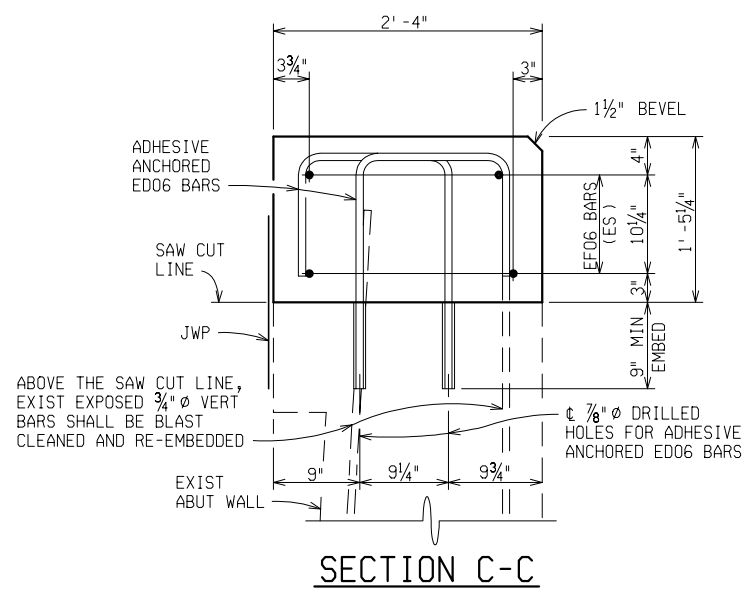
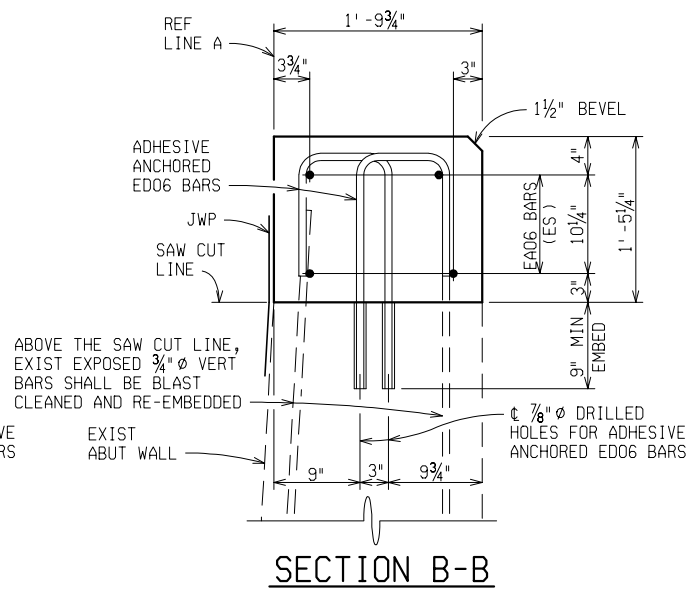
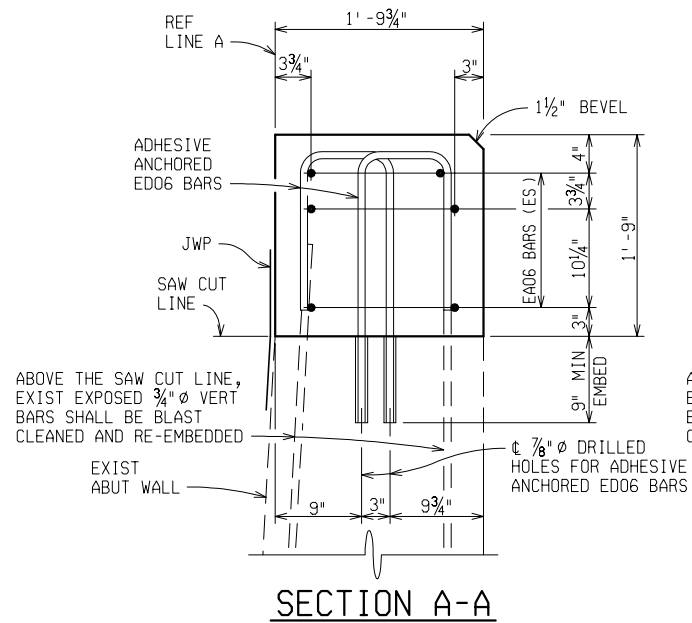


Michigan Department of Transportation

DATE		CONT. SEC.	JOB NO.	DESIGN UNIT	SHEET
B02 OF 38051		53274A			18 OF 32

ABUTMENT DETAILS

REVISIONS			
NO.	DESCRIPTION	DATE	BY

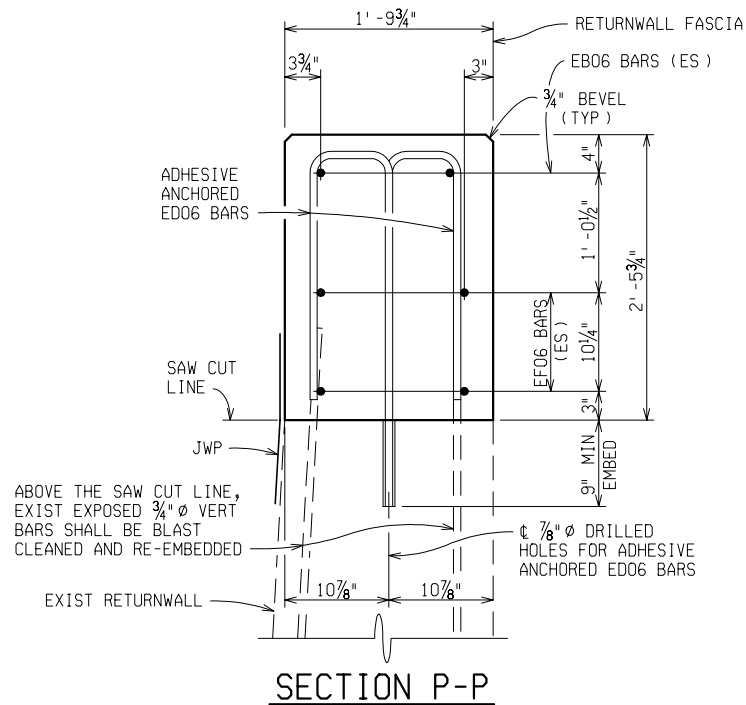
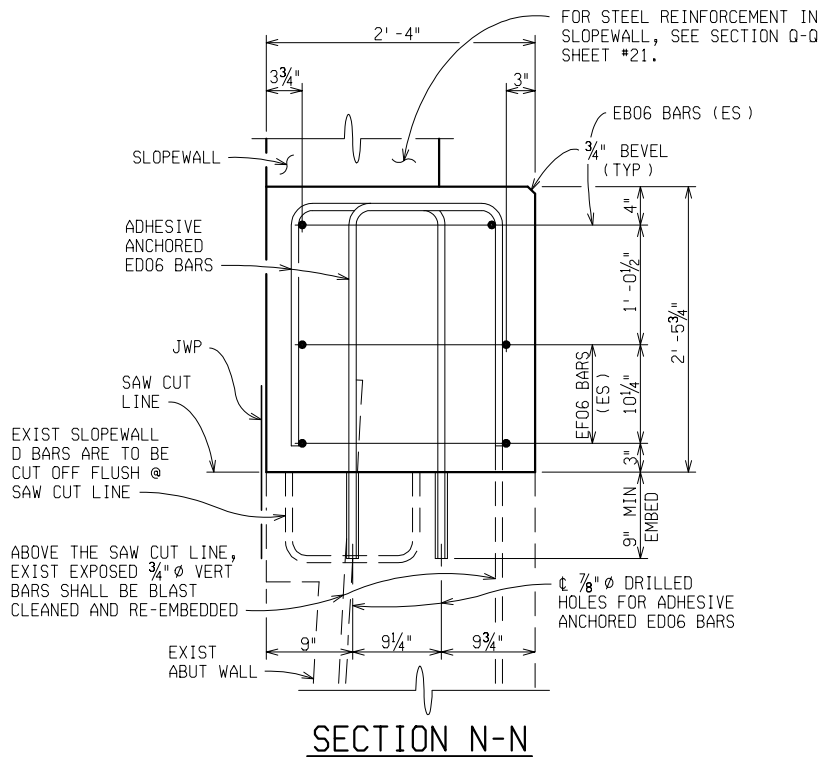
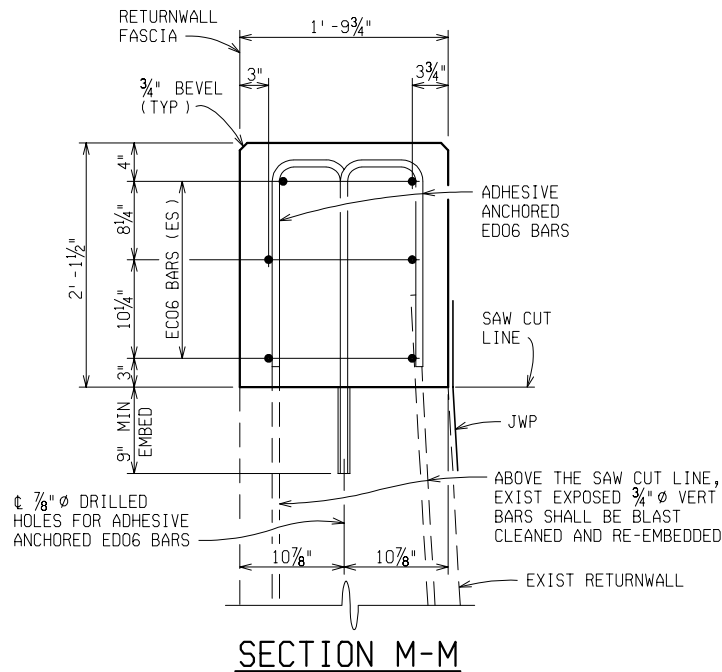
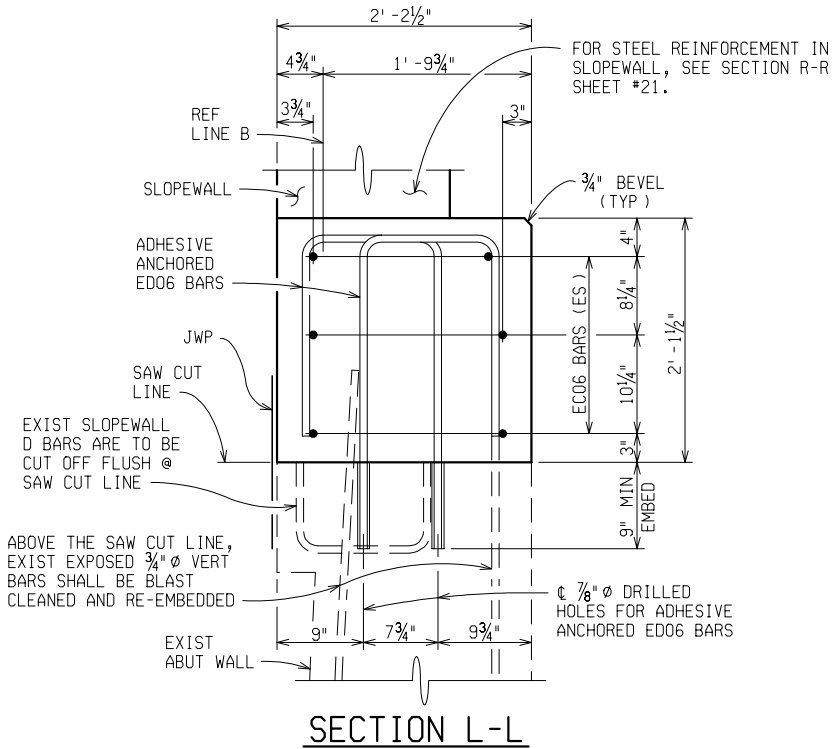
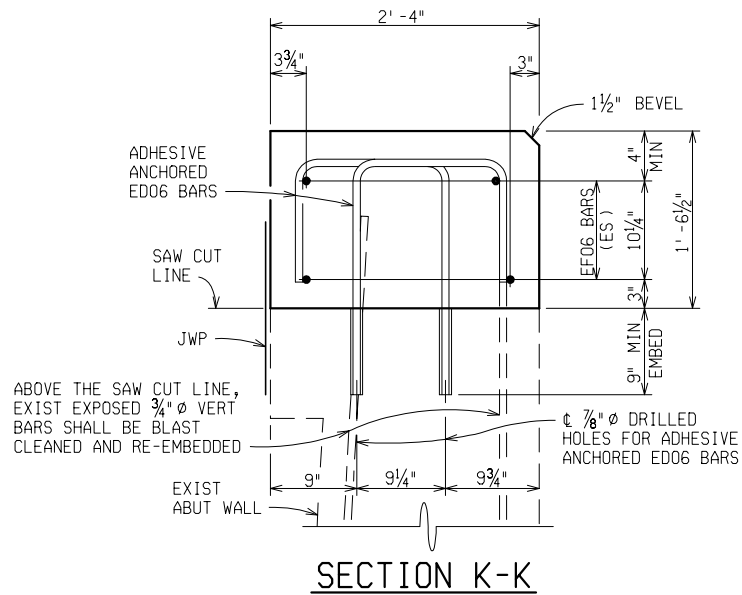
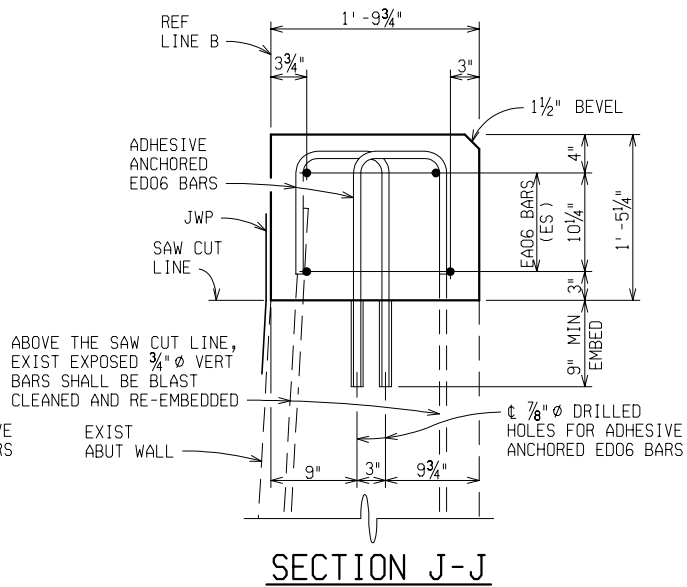
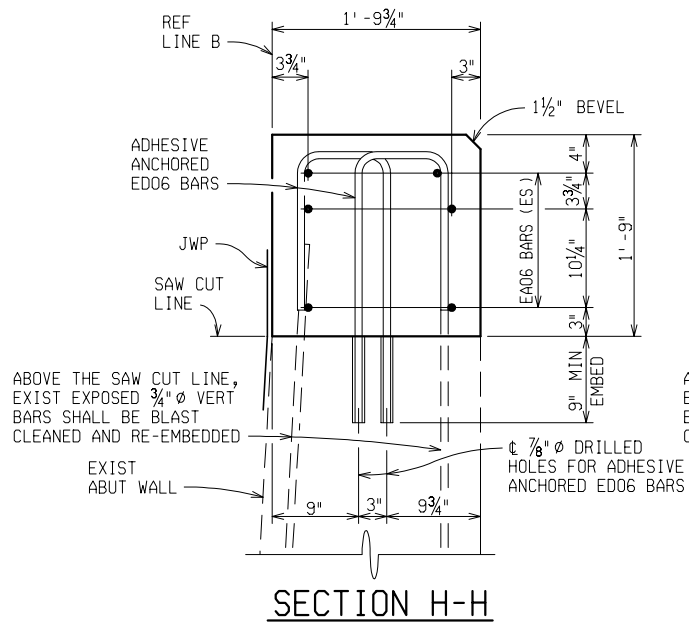


ABUTMENT DETAILS

DATE	CONT. SEC.	JOB NO.	DESIGN UNIT	SHEET
	B02 OF 38051	53274A		19 OF 32

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REVISIONS			
NO.	DESCRIPTION	DATE	BY



ABUTMENT DETAILS

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	B02 OF 38051	53274A		20 OF 32

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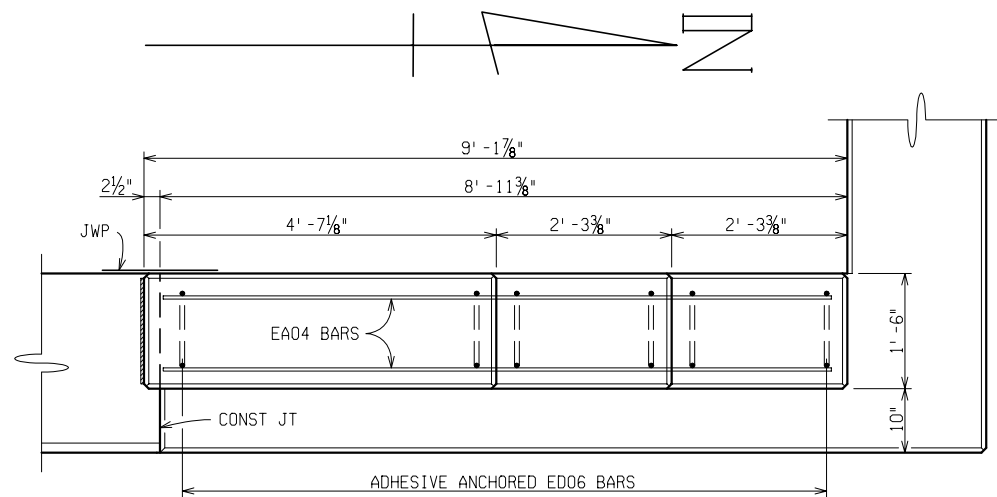
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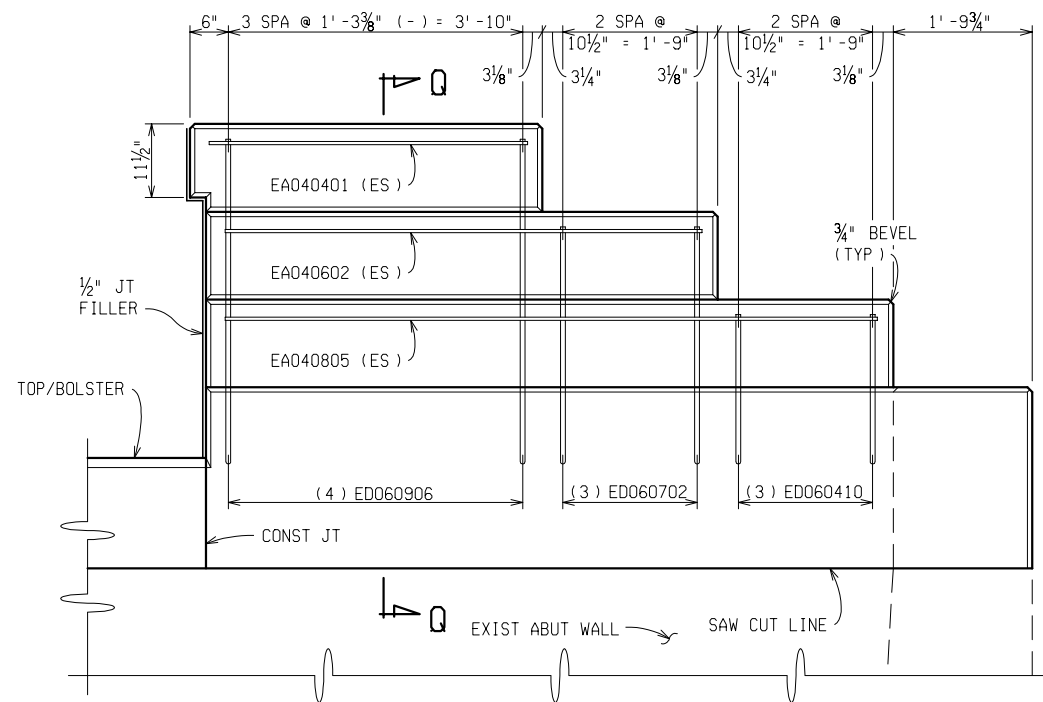
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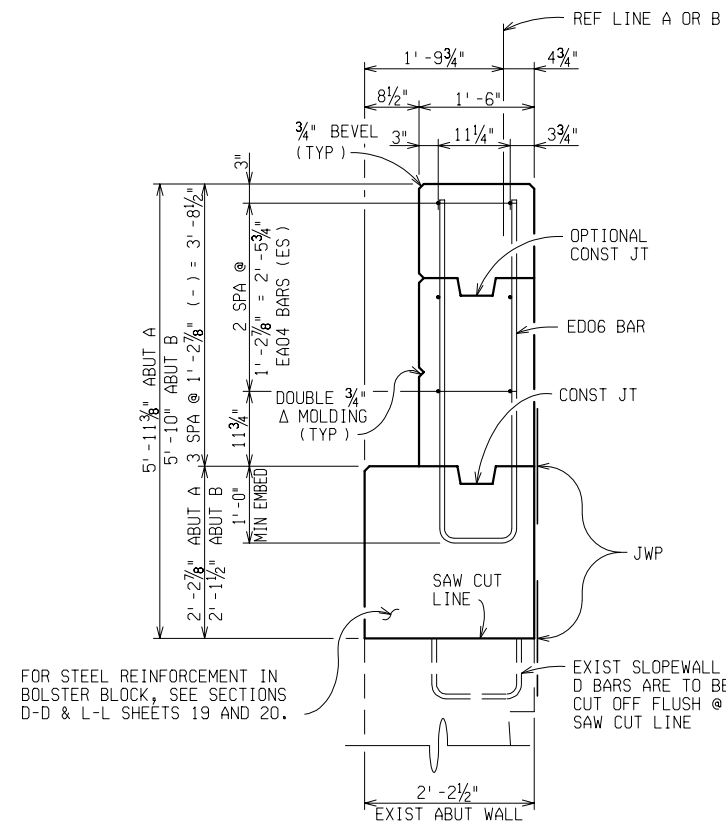
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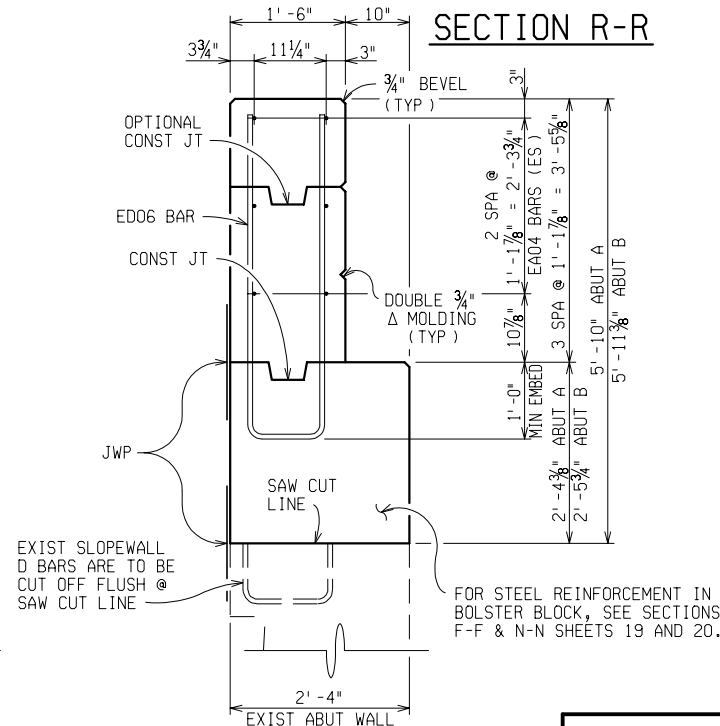
PLAN OF NORTH SLOPE WALL - ABUTMENT A
(SOUTH SLOPE WALL - ABUTMENT B IS SIMILAR)



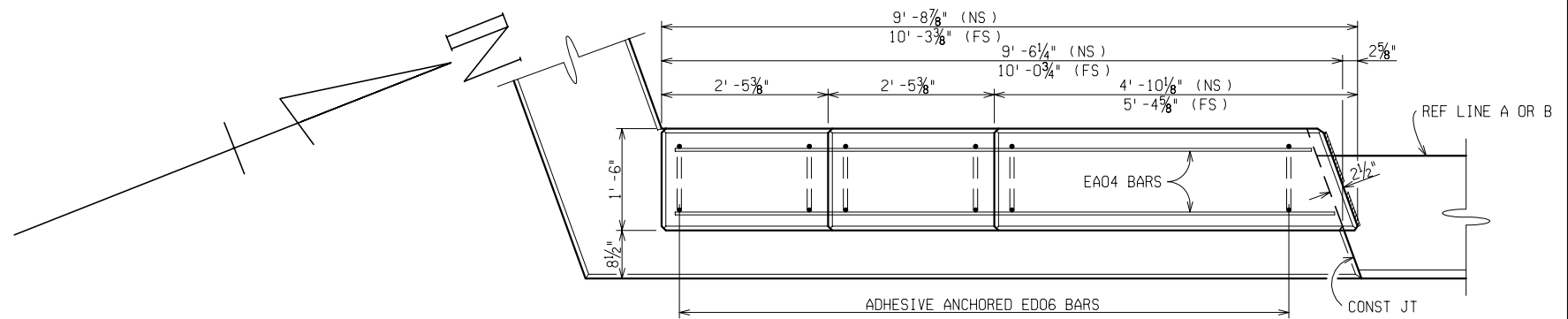
NORTH SLOPE WALL ELEVATION - ABUTMENT A
(SOUTH SLOPE WALL - ABUTMENT B IS SIMILAR)



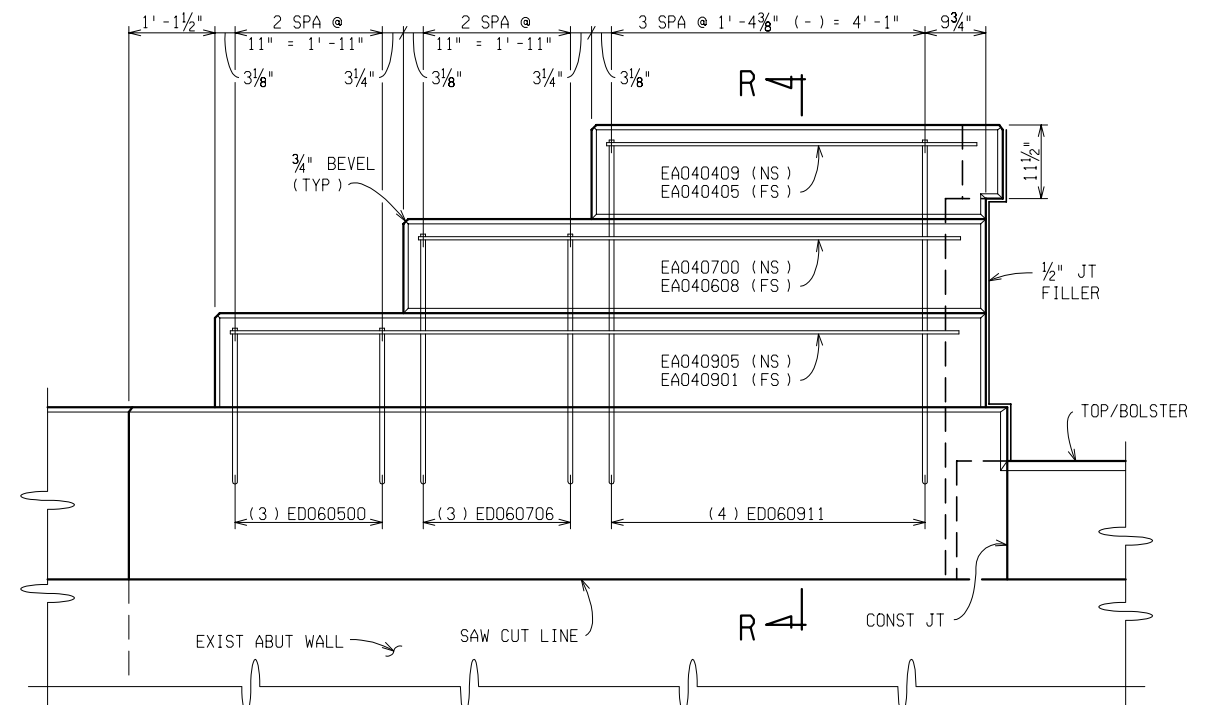
SECTION R-R



SECTION Q-Q



PLAN OF SOUTH SLOPE WALL - ABUTMENT A
(NORTH SLOPE WALL - ABUTMENT B IS SIMILAR)



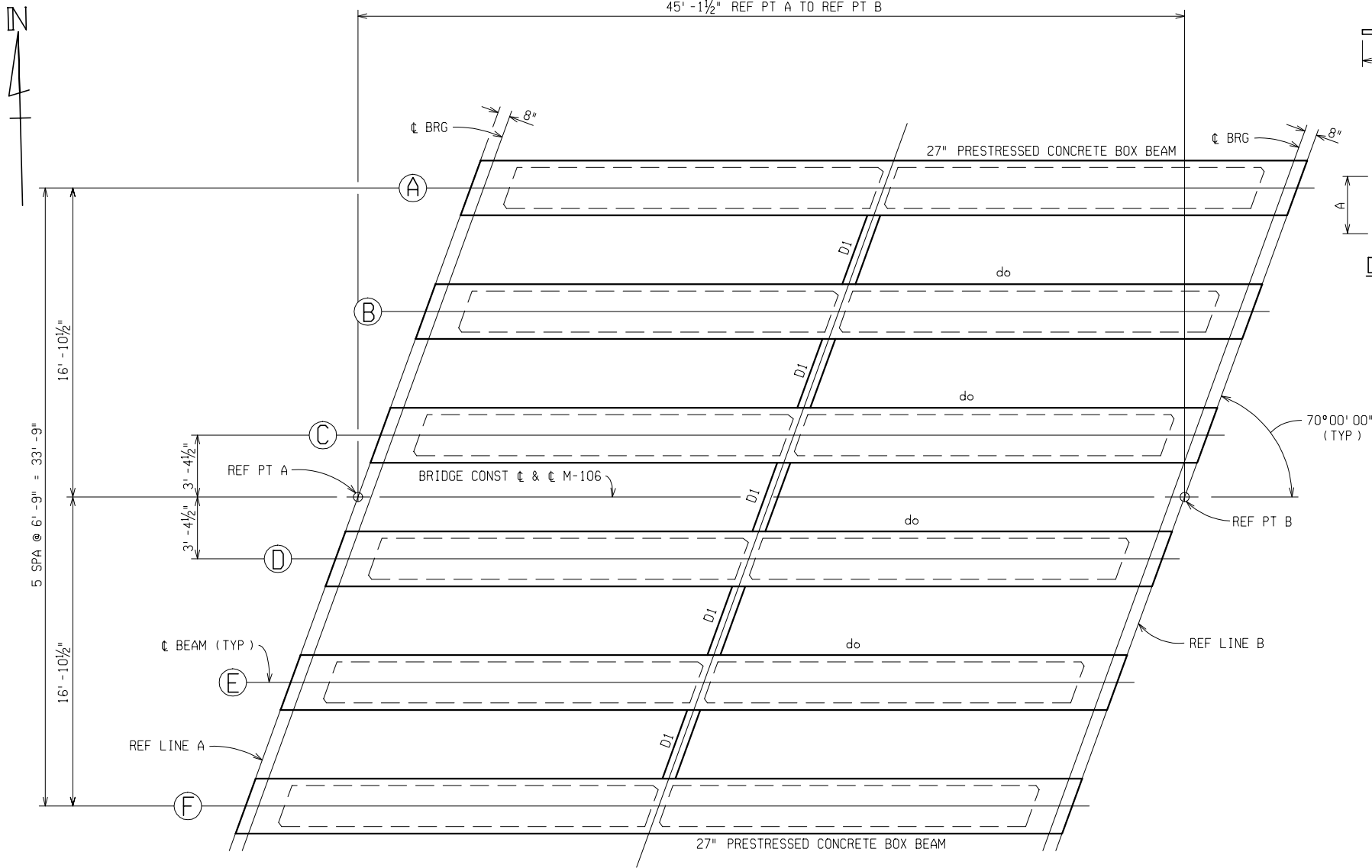
SOUTH SLOPE WALL ELEVATION - ABUTMENT A
(NORTH SLOPE WALL - ABUTMENT B IS SIMILAR)

REVISIONS			
NO.	DESCRIPTION	DATE	BY

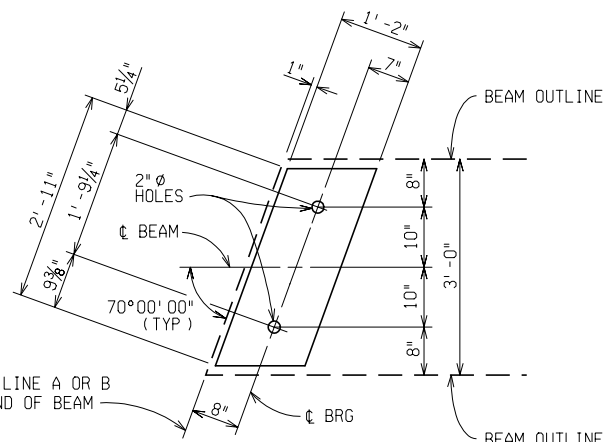


ABUTMENT DETAILS				
DATE	CONT. SEC.	JOB NO.	DESIGN UNIT	SHEET
	B02 OF 38051	53274A		21 OF 32

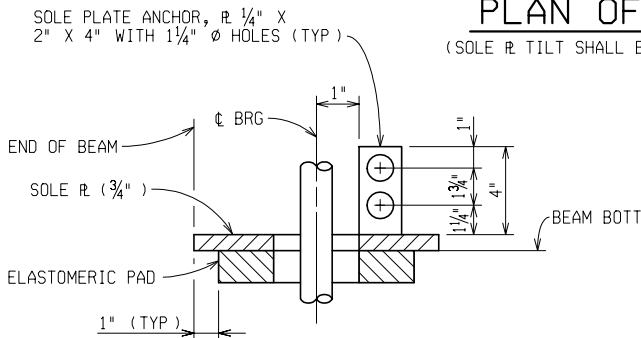
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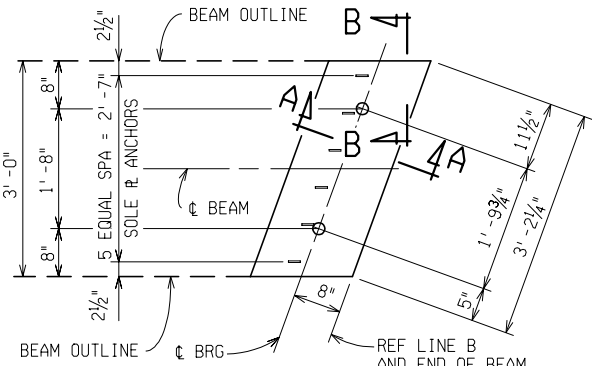
ERECTION DIAGRAM



PLAN OF BEARING

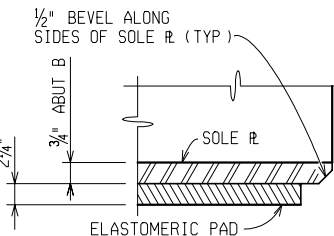


SECTION A-A

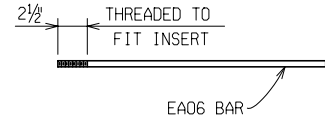
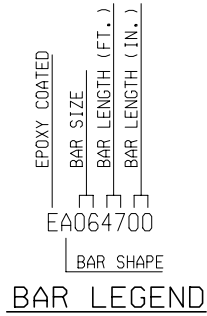
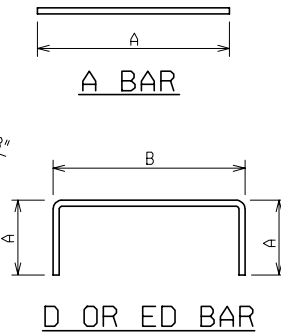


PLAN OF SOLE PLATE

(SOLE PLATE TILT SHALL BE 1/4" FOR ALL BEAMS AT ABUT B)



SECTION B-B
(SHOWING ELASTOMERIC PAD)

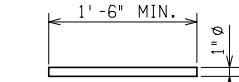


THREADED BAR DETAIL

(THREADED EA06 BARS ARE INCLUDED IN SUPERSTRUCTURE BAR SCHEDULE)

BOX BEAM BAR DIMENSIONS			
BAR	DIMENSIONS	NO. REQ'D	
A060109	a 1' - 9"	24	
A060400	a 4' - 0"	8	
A060500	a 5' - 0"	16	
A064410	a 44' - 10"	18	
D040511	a 1' - 7 1/8"	288	
	b 2' - 7 3/4"		
D040600	a 1' - 7 1/8"	288	
	b 2' - 8 3/4"		
D040601	a 1' - 7 1/2"	100	
	b 2' - 10"		
D040602	a 1' - 7 1/2"	100	
	b 2' - 11"		
ED040606	a 1' - 11 1/8"	384	
	b 2' - 7 3/4"		

MINIMUM REINFORCEMENT SHOWN IS NOT PAID FOR SEPARATELY, BUT INCLUDED IN PAYMENT FOR "Prest Conc Box Beam, Furn, 27 inch".



POSITION DOWEL DETAIL

(24 REQUIRED) (NOT PAID FOR SEPARATELY BUT INCLUDED IN PAYMENT FOR "Prest Conc Box Beam, Furn, 27 inch".)

MISCELLANEOUS QUANTITIES

271 Ft	Prest Conc Box Beam, Furn, 27 inch
271 Ft	Prest Conc Box Beam, Erect, 27 inch
41 Sft	Bearing, Elastomeric, 2 1/4 inch

NOTES:

(T & B) DENOTES TOP AND BOTTOM.

ES DENOTES EACH SIDE.

OMIT KEYS ON ALL BEAMS, BOTH SIDES.

PRESTRESSING STRANDS SHALL BE GIVEN AN INITIAL PRESTRESS OF 43,900 LBS.

BEAMS CAN BE TEMPORARILY SUPPORTED 3 FEET FROM END.

STIRRUPS SHALL ENCLOSE STRANDS FOR AT LEAST 27" FROM END OF BEAM.

CONCRETE INSERTS SHALL BE 3/4" DIAMETER; RICHMOND, TYPE T2 OR TYPE TL2F; DAYTON SUPERIOR, TYPE B-1 HEAVY OR TYPE B-18; WILLIAMS, TYPE C12 OR TYPE C-19; MEADOW STEEL, TYPE CT-2 OR TYPE CX-4; OR EQUAL. INSERTS SHALL BE CAST WITH THE BEAMS. FIELD INSTALLATION OF INSERTS IS NOT ALLOWED.

TOTAL ESTIMATED CHANGE OF LENGTH OF BOTTOM FLANGE AT TRANSFER OF PRESTRESS FORCE IS 1/4".

THE ESTIMATED INTERIOR BEAM CAMBER AT RELEASE IS 5/8". THE ESTIMATED FASCIA BEAM CAMBER AT RELEASE IS 3/4". THIS CAMBER IS DUE TO PRESTRESS AND DEAD LOAD OF THE BEAM ONLY AND IS MEASURED IN THE ERECTED POSITION.

THREADING OF REINFORCEMENT AND INSTALLATION INTO CONCRETE INSERTS IS INCLUDED IN THE BID ITEM "Prest Conc Box Beam, Furn, 27 inch".

LIFTING DEVICES SHALL BE REMOVED AFTER BEAMS ARE ERECTED. REMOVAL IS INCLUDED IN THE BID ITEM "Prest Conc Box Beam, Erect, 27 inch".

POSITION DOWELS SHALL BE HOT-DIP GALVANIZED ACCORDING TO AASHTO M 232. POSITION DOWELS ARE INCLUDED IN PAYMENT FOR PRESTRESSED CONCRETE BEAMS.

PRESTRESSING STRAND SHALL BE 0.6" NOMINAL DIAMETER MEETING THE REQUIREMENTS OF AASHTO M203, GRADE 270, LOW RELAXATION STRAND.

OMIT INSERTS FOR DIAPHRAGMS ON THE OUTSIDE OF THE FASCIA BEAMS.



27" BOX BEAM DETAILS

DATE	CONT. SEC.	JOB NO.	DESIGN UNIT	SHEET
	B02 OF 38051	53274A		22 OF 32

FILE NAME: 60238051bb2.dgn

DATE:

CORRECTED BY:

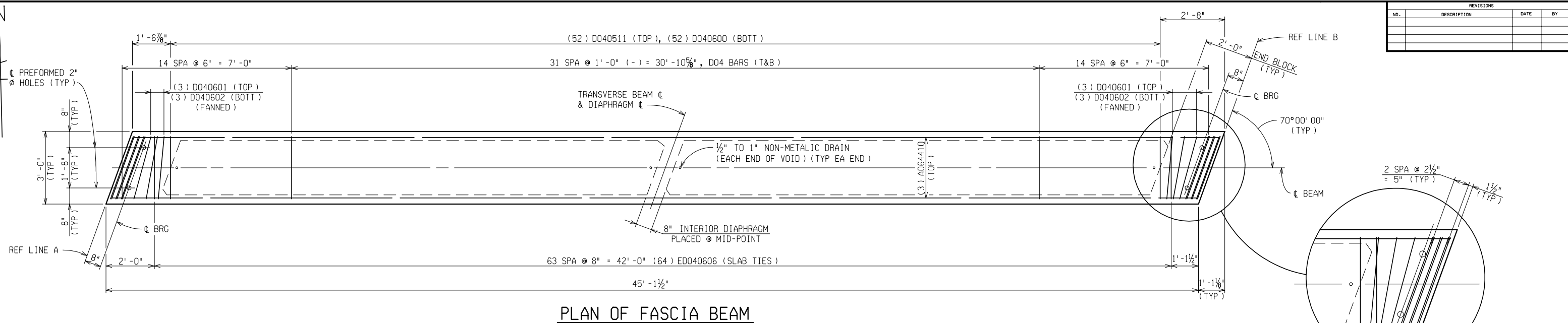
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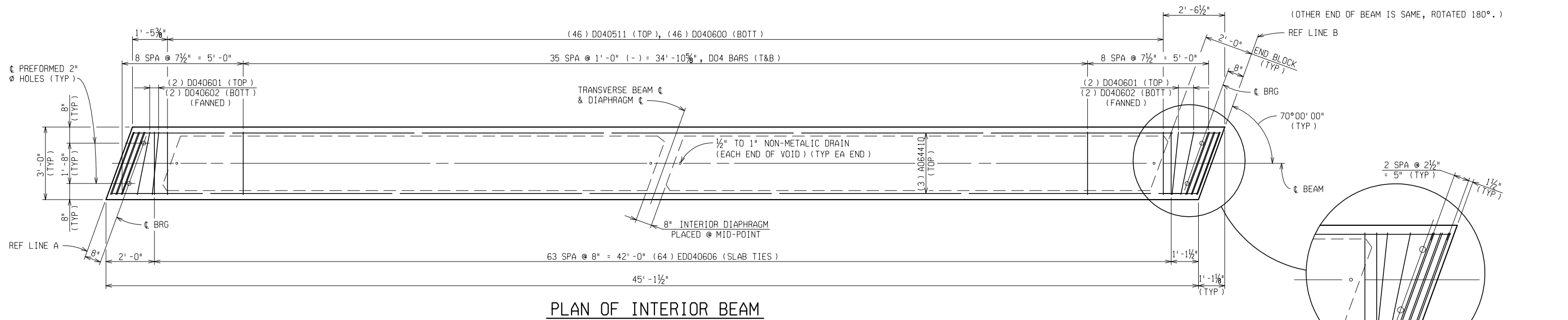
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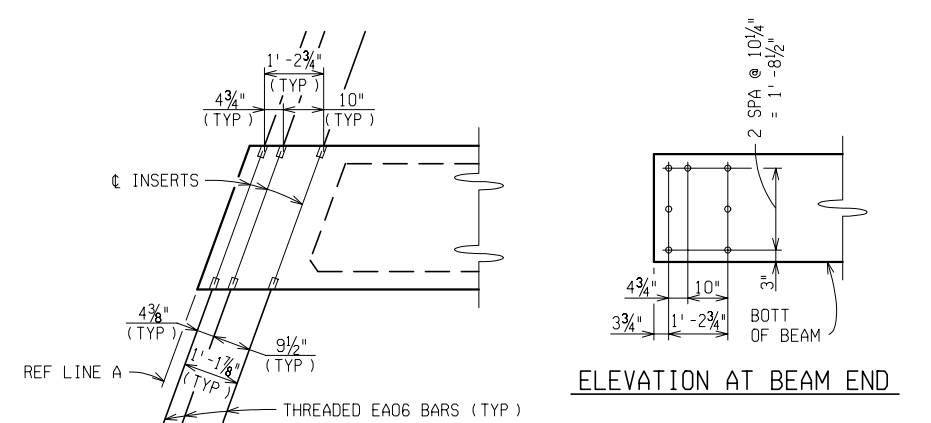
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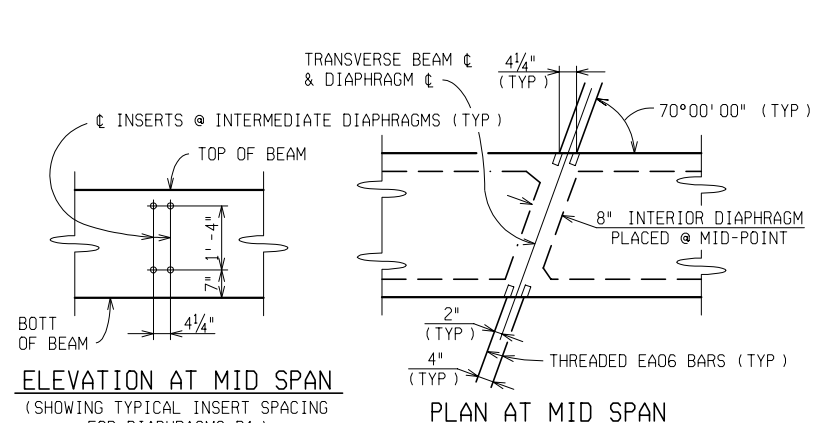
PLAN OF FASCIA BEAM



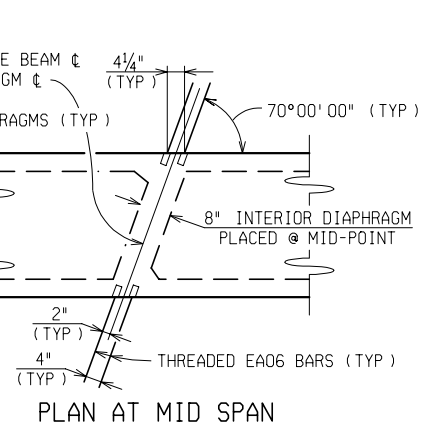
PLAN OF INTERIOR BEAM



ELEVATION AT BEAM END



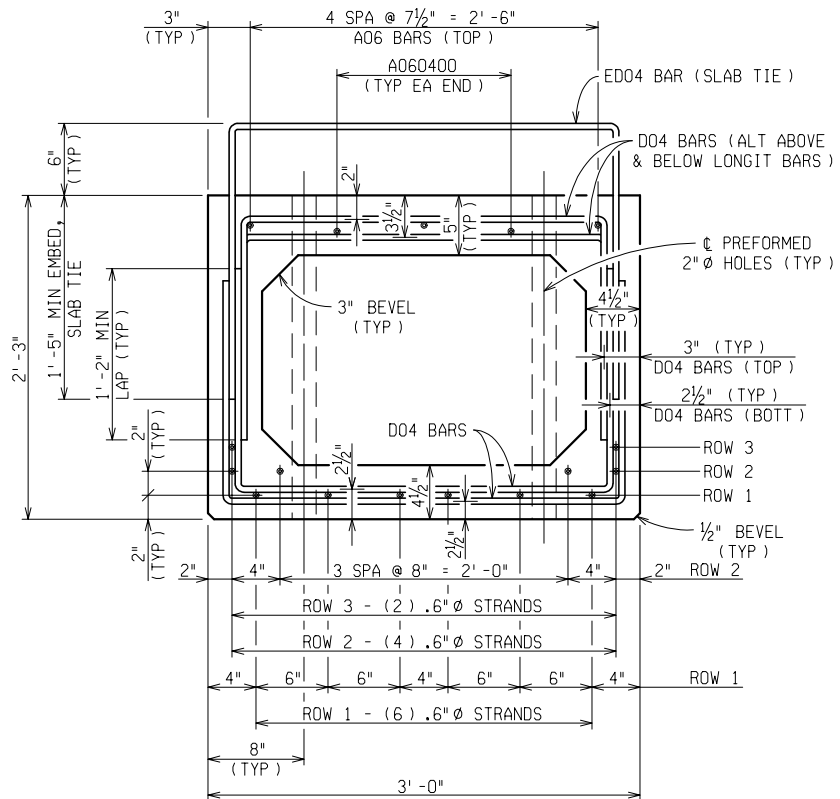
ELEVATION AT MID SPAN



PLAN AT MID SPAN

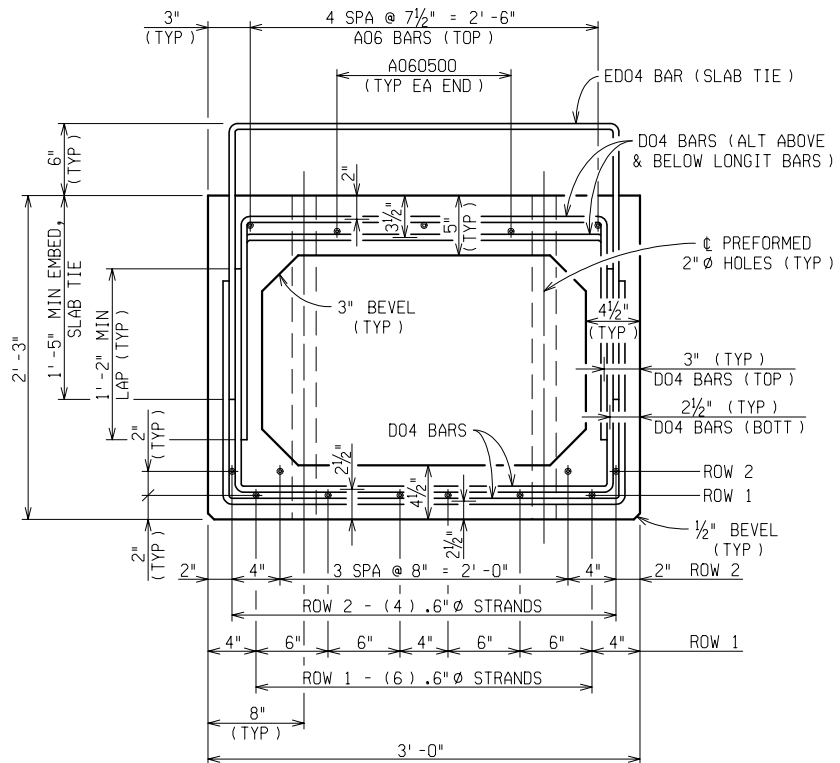


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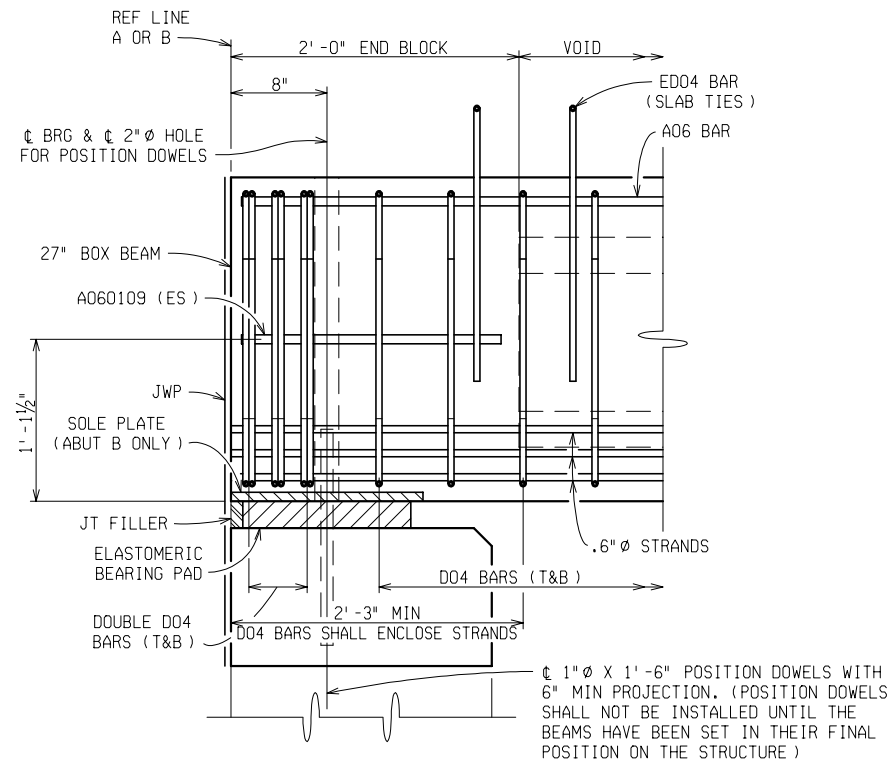
TYPICAL FASCIA BEAM SECTION

MINIMUM REINFORCEMENT SHOWN (GRADE 60) IS NOT PAID FOR SEPARATELY, BUT INCLUDED IN PAYMENT FOR "Prest Conc Box Beam, Furn, 27 inch".



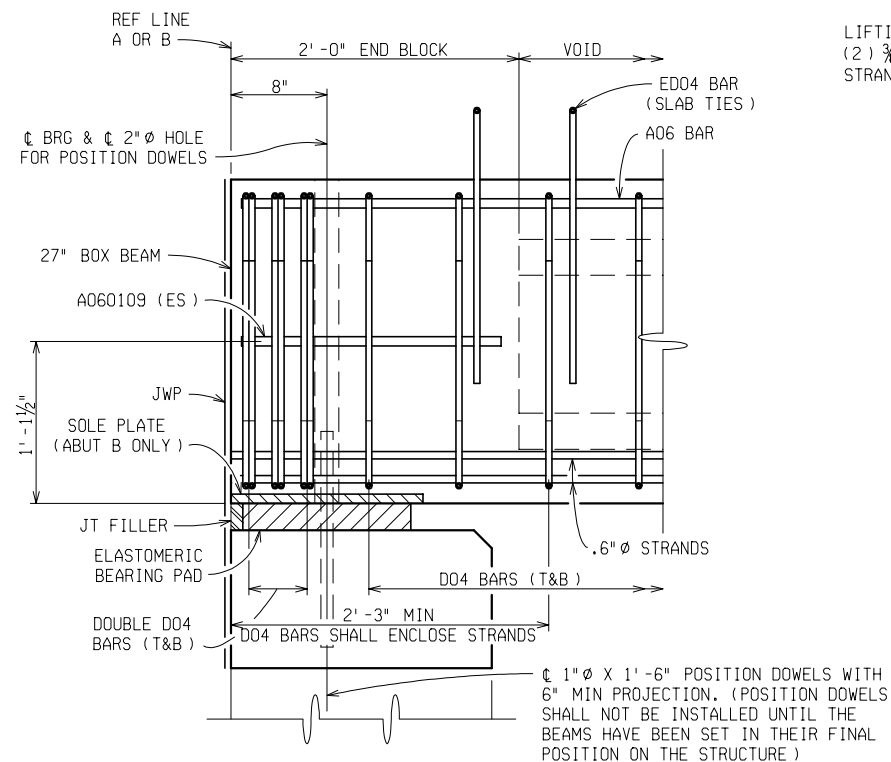
TYPICAL INTERIOR BEAM SECTION

MINIMUM REINFORCEMENT SHOWN (GRADE 60) IS NOT PAID FOR SEPARATELY, BUT INCLUDED IN PAYMENT FOR "Prest Conc Box Beam, Furn, 27 inch".



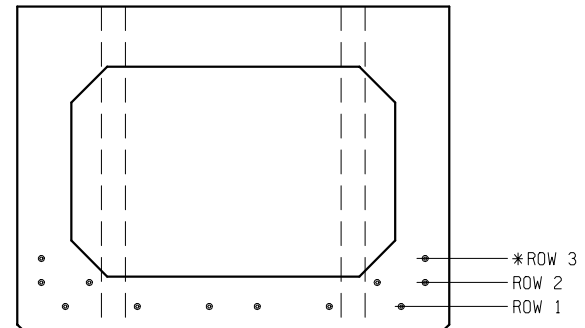
SECTION THRU FASCIA BEAM END BLOCK

(SIMILAR EACH END)



SECTION THRU INTERIOR BEAM END BLOCK

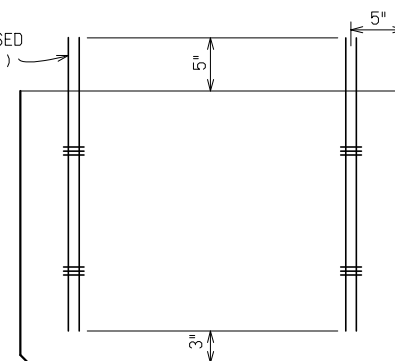
(SIMILAR EACH END)



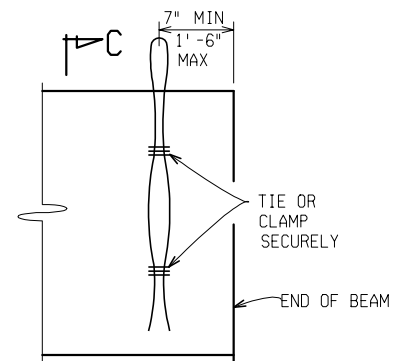
STRAND LOCATION FOR TYPICAL BEAM SECTION

DEBONDING NOT REQUIRED
* FASCIA BEAM ONLY

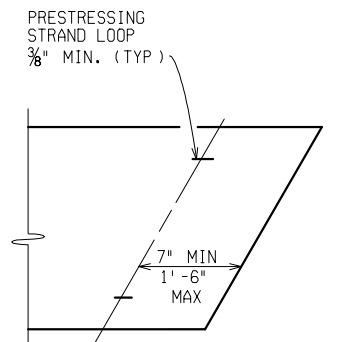
LIFTING DEVICE
(2) 3/8" PRESTRESSED
STRAND LOOP (TYP)



SECTION C-C



ELEVATION



PLAN

DETAILS OF LIFTING DEVICE

NOTE: LIFTING OF BEAM SHALL BE BY EQUAL LOADS TO EACH PAIR OF LIFTING DEVICES. OTHER TYPES OF LIFTING DEVICES MAY BE USED SUBJECT TO APPROVAL BY THE MICHIGAN DEPARTMENT OF TRANSPORTATION.



27" BOX BEAM DETAILS

DATE	CONT. SEC.	JOB NO.	DESIGN UNIT	SHEET
	B02 OF 38051	53274A		24 OF 32

FILE NAME: 60238051bb2.dgn

DRAWN BY:

DATE:

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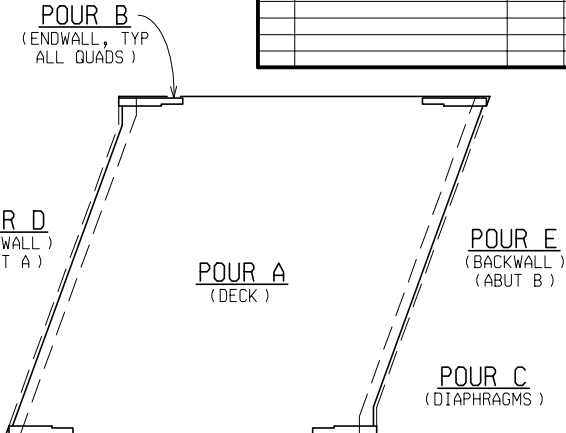
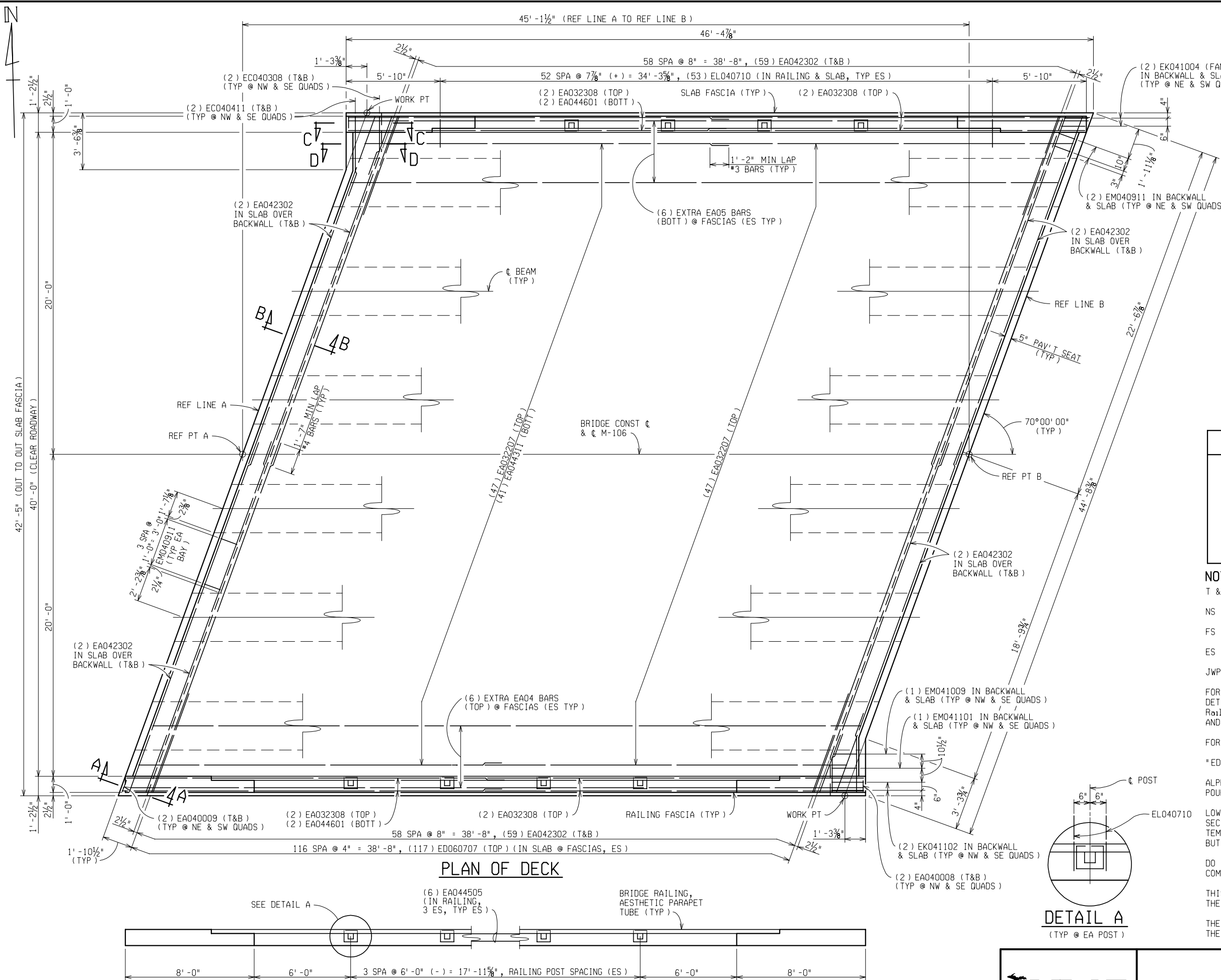
DATE:

CORRECTED BY:

DATE:

REVISIONS			
NO.	DESCRIPTION	DATE	BY

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SUPERSTRUCTURE CONCRETE QUANTITIES (FOR INFORMATION ONLY)	
POUR	AMT (CYDS)
*A	63.0
B	4.0
C	1.0
D	4.0
E	4.0
TOTAL CONC.= 76 CYDS	

*DENOTES NIGHT CASTING

MISCELLANEOUS QUANTITIES

72 Ft	Bridge Railing, Aesthetic Parapet Tube
63 Cyd	Superstructure Conc, Night Casting
1 LS	Superstructure Conc, Form, Finish, and Cure, Night Casting (B02)
13 Cyd	Superstructure Conc
1 LS	Superstructure Conc, Form, Finish, and Cure (B02)
485 Sft	Joint Waterproofing
63 Cyd	Bridge Ltg, Oper and Maintain
1 LS	Bridge Ltg, Furn and Rem (B02)

NOTES:

T & B DENOTES TOP AND BOTTOM.

NS DENOTES NEAR SIDE.

FS DENOTES FAR SIDE.

ES DENOTES EACH SIDE.

JWP DENOTES JOINT WATERPROOFING.

FOR BRIDGE RAILING, ANCHORAGE FOR GUARDRAIL AND NAME PLATE MOUNTING DETAILS, SEE STANDARD PLAN B-25-SERIES. RAILING SHALL BE "Bridge Railing, Aesthetic Parapet Tube". FOR DETAILS OF NAME PLATES, MOLDINGS AND BEVELS, SEE STANDARD PLAN B-103-SERIES.

FOR NAME PLATE LOCATION, SEE GENERAL PLAN OF STRUCTURE SHEET #3.

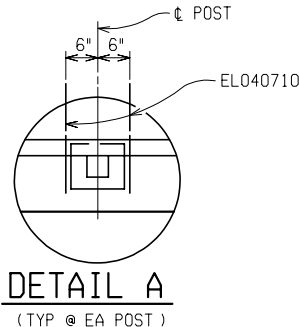
"EDGE" OR "GROOVE" DENOTES EDGING OR GROOVING WITH AN APPROVED TOOL. ALPHABETICAL DESIGNATION OF DECK POURS IS NOT TO BE CONSTRUED AS A POUR SEQUENCE.

LOW TEMPERATURE PROTECTION OF CONCRETE SHALL BE APPLIED ACCORDING TO SECTION 706.03J, OF THE STANDARD SPECIFICATIONS FOR CONSTRUCTION. LOW TEMPERATURE PROTECTION OF CONCRETE WILL NOT BE PAID FOR SEPARATELY, BUT WILL BE INCLUDED IN THE BID ITEM "Superstructure Conc, Night Casting".

DO NOT POUR DECK CONCRETE UNTIL DIAPHRAGM CONCRETE ATTAINS A COMPRESSIVE STRENGTH OF 3,000 PSI.

THIS DECK POUR IS DESIGNATED A NIGHT POUR, AND THEREFORE SUBJECT TO THE RESTRICTIONS OF SECTION 706.03I OF THE STANDARD SPECIFICATIONS.

THE CONTRACTOR MAY USE METAL STAY IN PLACE FORMS. IF USED, ELIMINATING THE POLYSTYRENE AND FILLING THE CORRUGATIONS WITH CONCRETE IS PROHIBITED.



DETAIL A
(TYP @ EA POST)



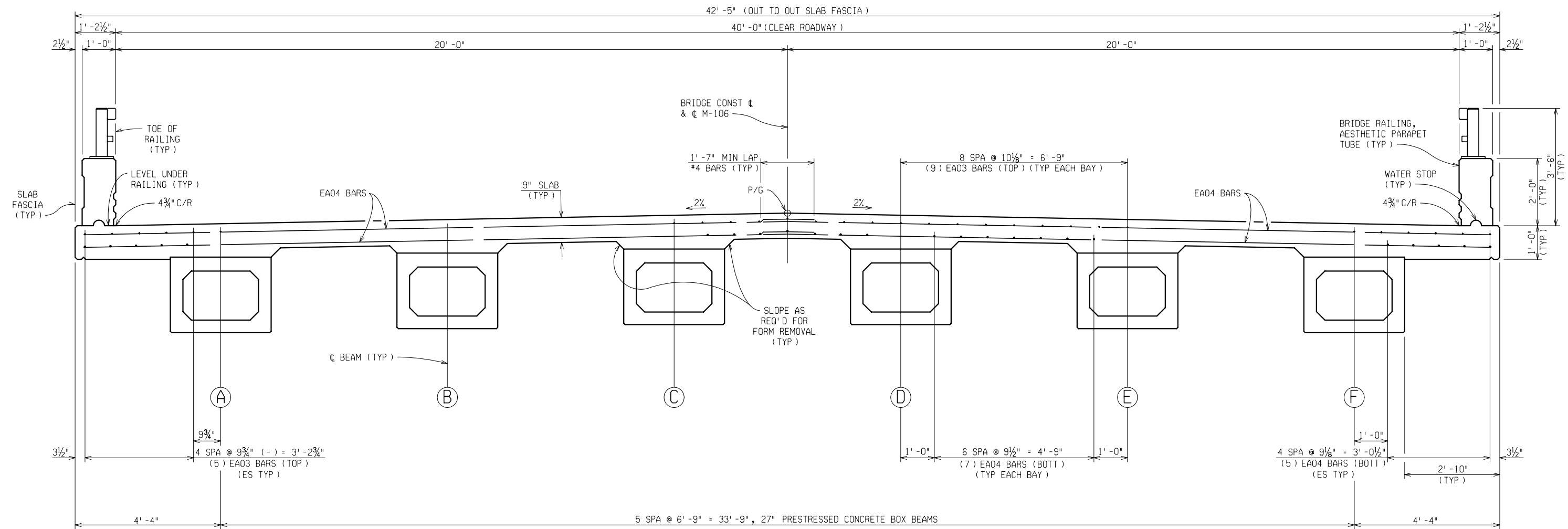
SUPERSTRUCTURE DETAILS

DATE	CONT. SEC.	JOB NO.	DESIGN UNIT	SHEET
	B02 OF 38051	53274A		25 OF 32

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CHECKED BY:
DATE:
CORRECTED BY:
DATE:

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REVISIONS			
NO.	DESCRIPTION	DATE	BY



TYPICAL DECK SECTION
(LOOKING UP STATION)



SUPERSTRUCTURE DETAILS

DATE	CONT. SEC.	JOB NO.	DESIGN UNIT	SHEET
	B02 OF 38051	53274A		26 OF 32

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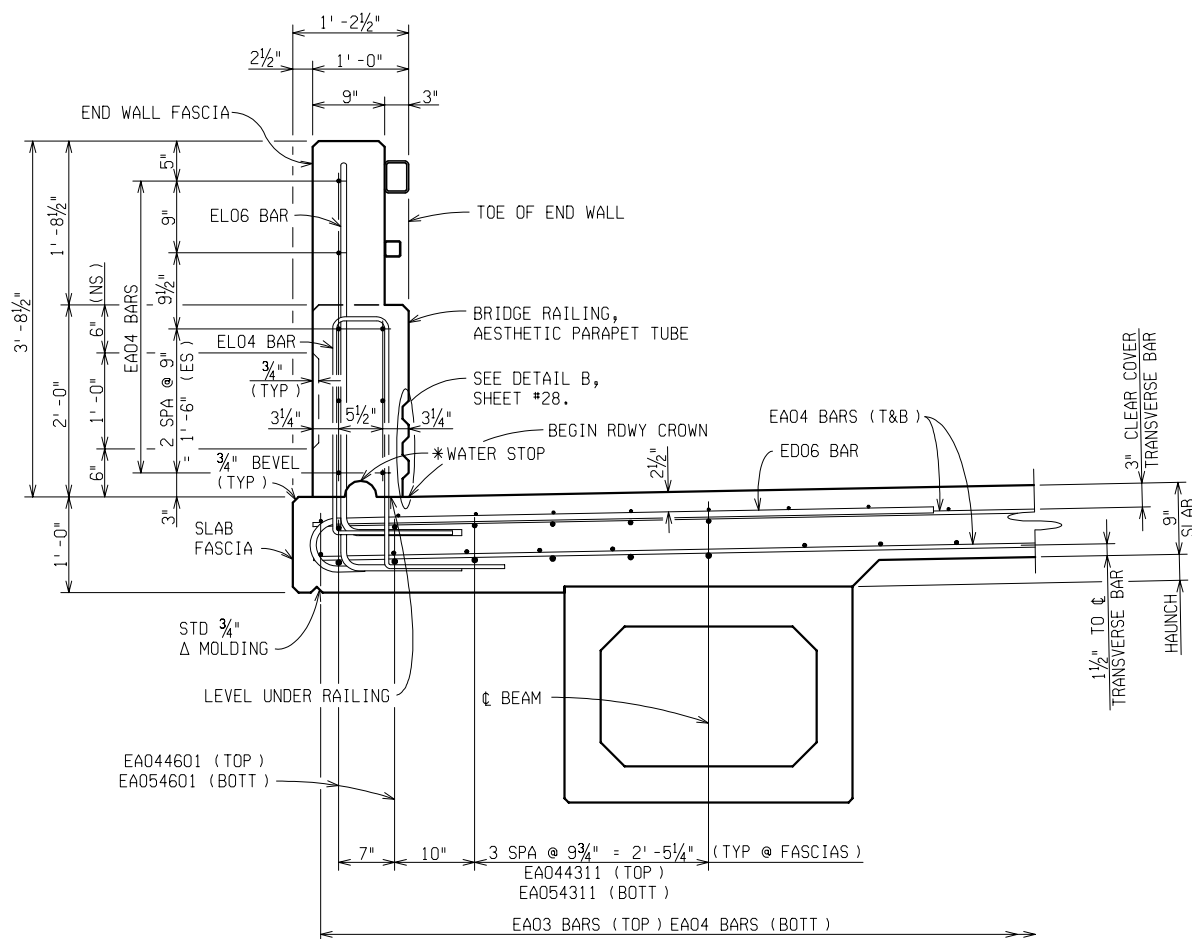
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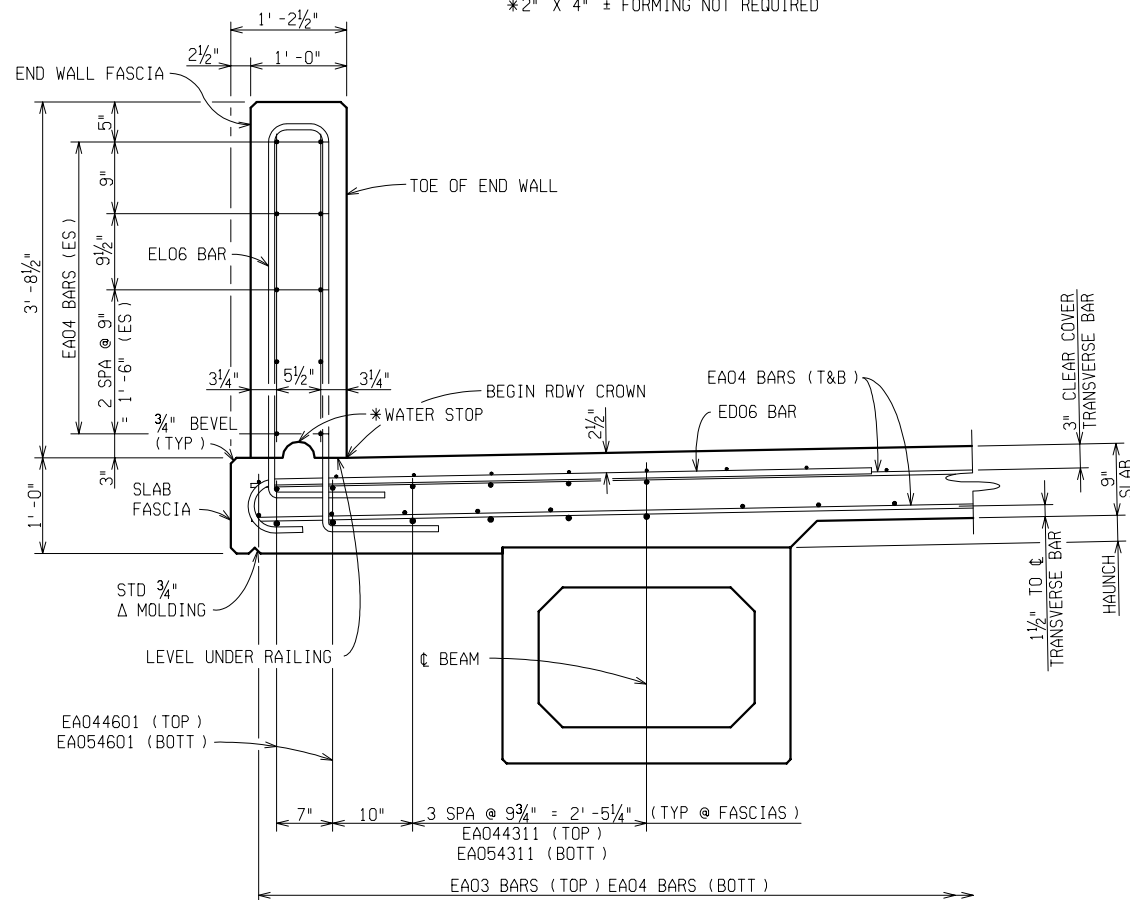
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SECTION E-E

(TUBE CONNECTION AREA)

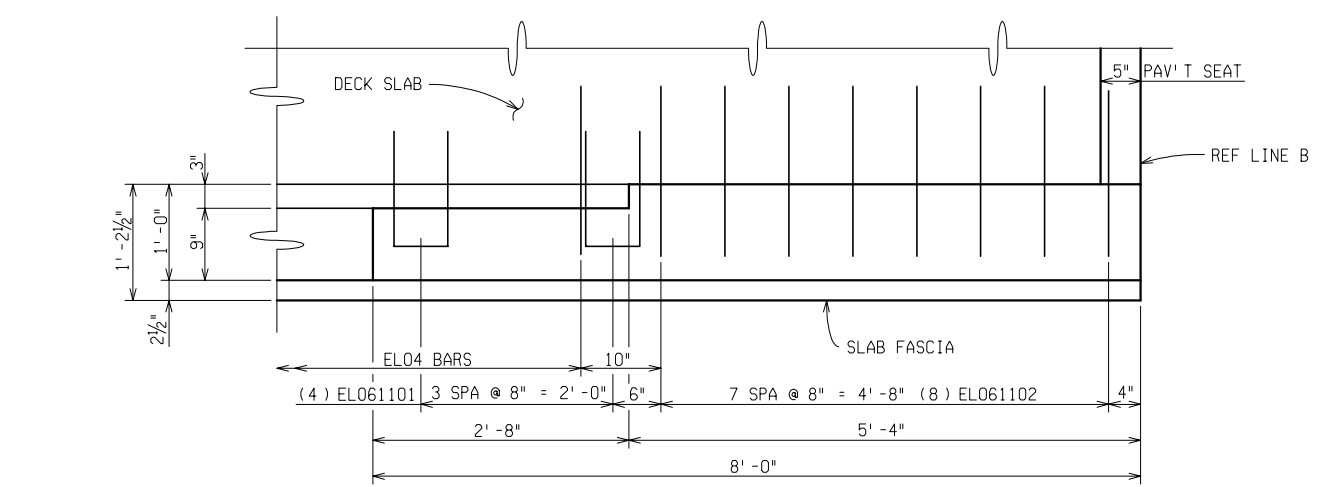
*2" X 4" ± FORMING NOT REQUIRED



SECTION F-F

(FULL CONCRETE AREA)

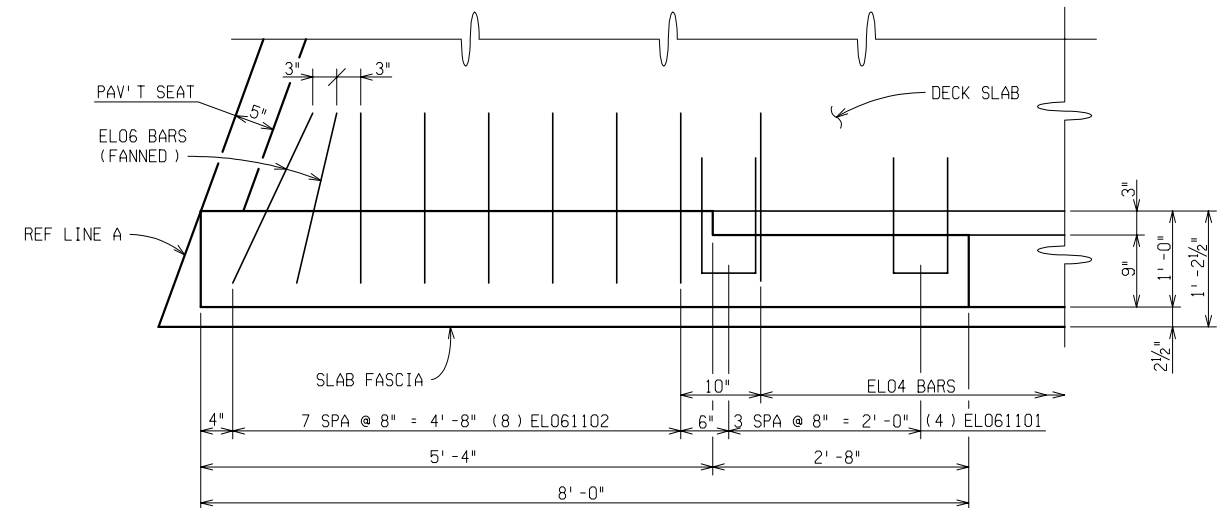
*2" X 4" ± FORMING NOT REQUIRED



PLAN - END WALL

(AESTHETIC PARAPET TUBE)

(SOUTH EAST QUAD IS SHOWN,
NORTH WEST QUAD IS SIMILAR)

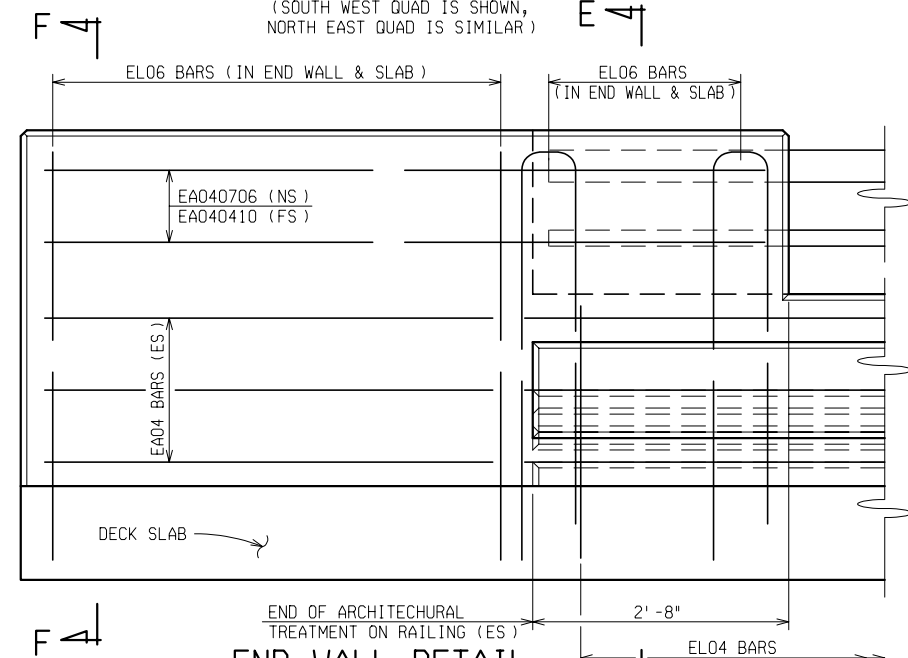


PLAN - END WALL

(AESTHETIC PARAPET TUBE)

(SOUTH WEST QUAD IS SHOWN,
NORTH EAST QUAD IS OMISSION)

NORTH EAST QUAD IS SIMILAR)



END WALL DETAIL

(AESTHETIC PARAPET TUBE)

REVISIONS			
NO.	DESCRIPTION	DATE	BY



SUPERSTRUCTURE DETAILS

DATE	CONT. SEC.	JOB NO.	DESIGN UNIT	SHEET
	B02 OF 38051	53274A		27 OF 32

FILE NAME: b0238051dk4.dgn

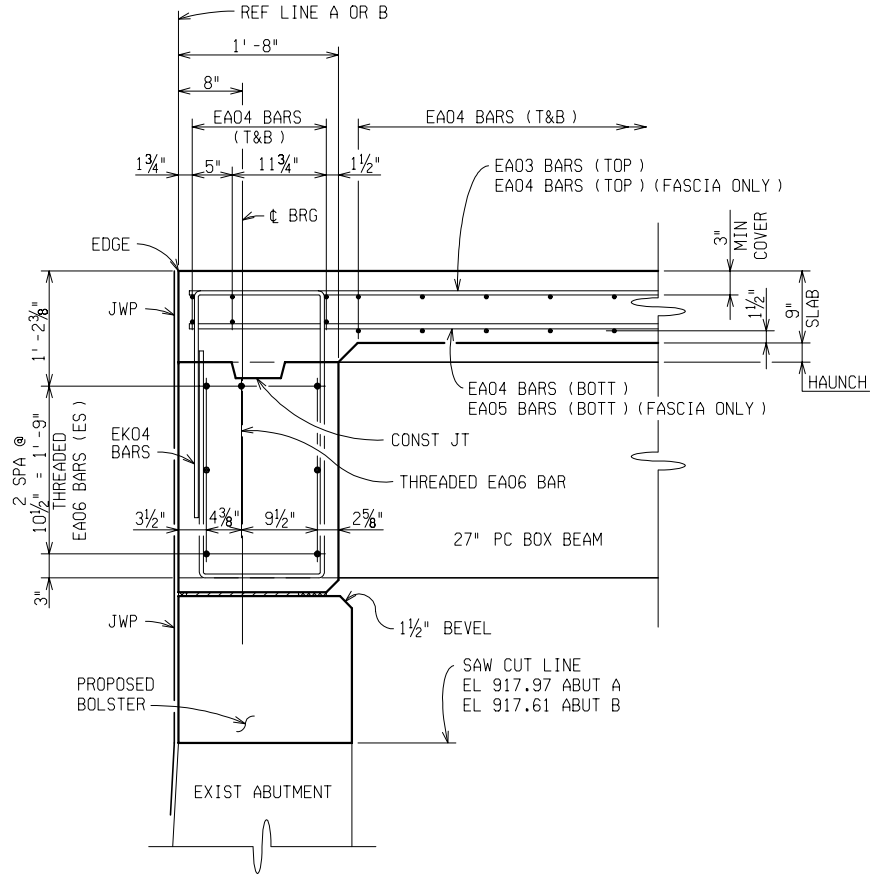
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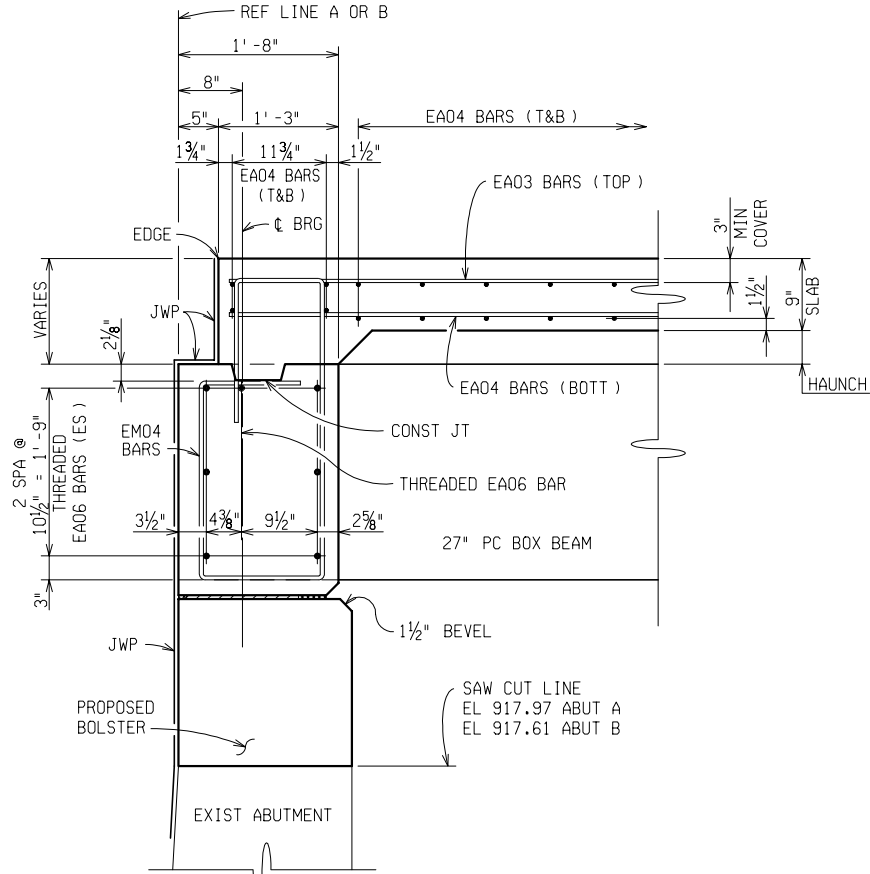
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SECTION A-A

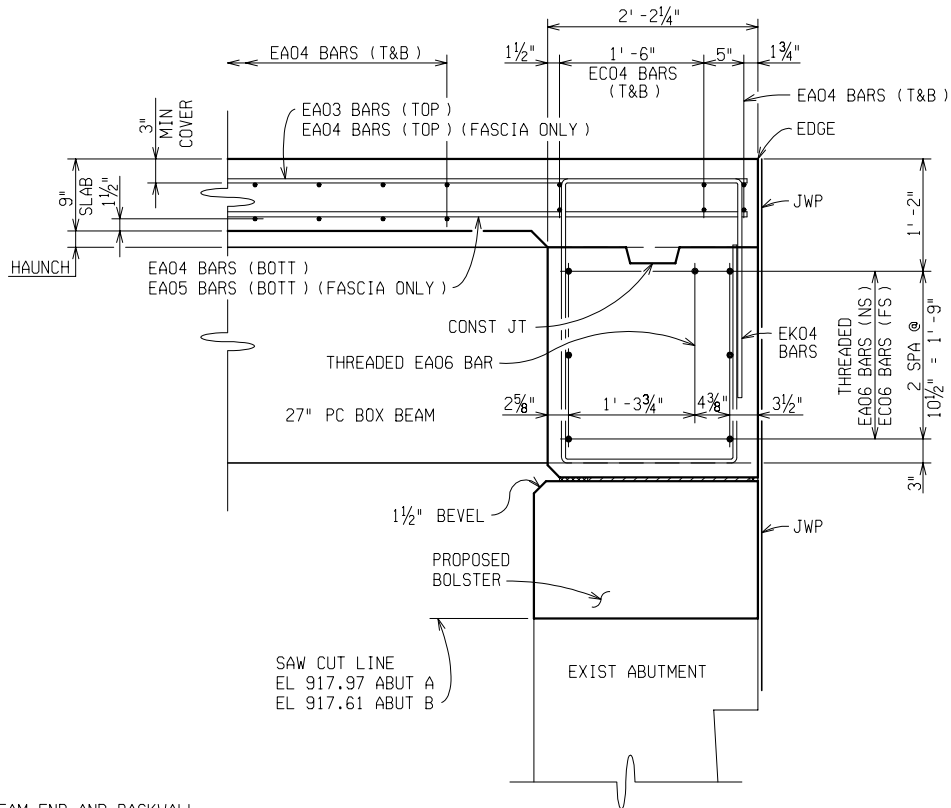
CAST LOWER PORTION OF THE BACKWALL
PRIOR TO PLACING DECK REINFORCEMENT.

NOTE: COAT ENTIRE BEAM END AND BACKWALL
@ REFERENCE LINE WITH JWP.



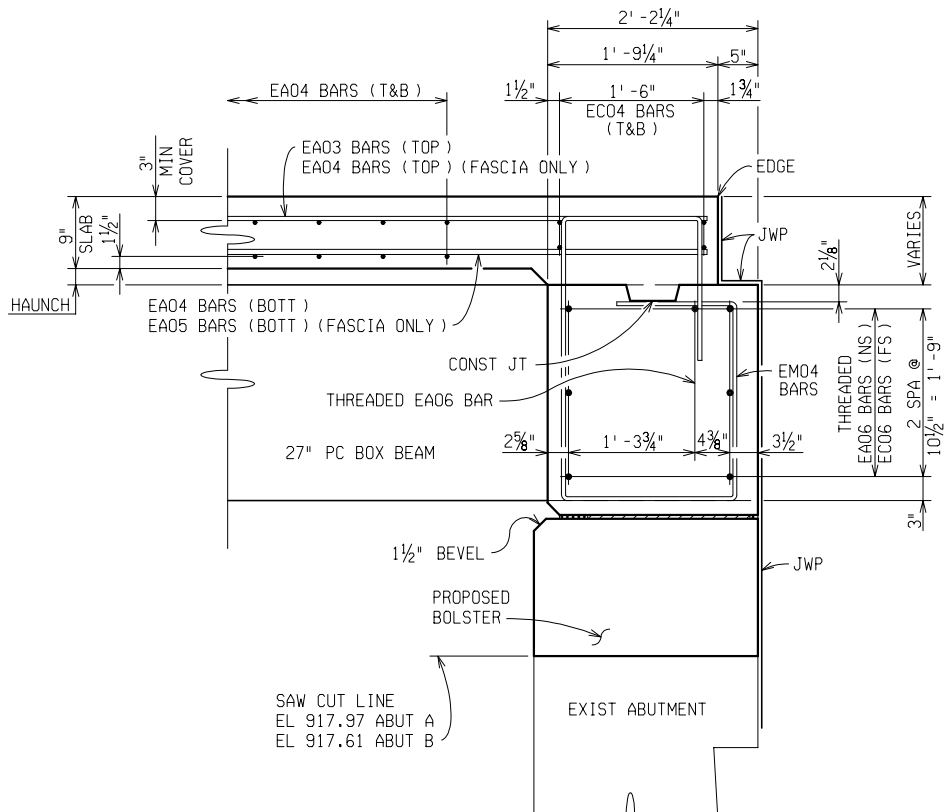
SECTION B-B

CAST LOWER PORTION OF THE BACKWALL
PRIOR TO PLACING DECK REINFORCEMENT.



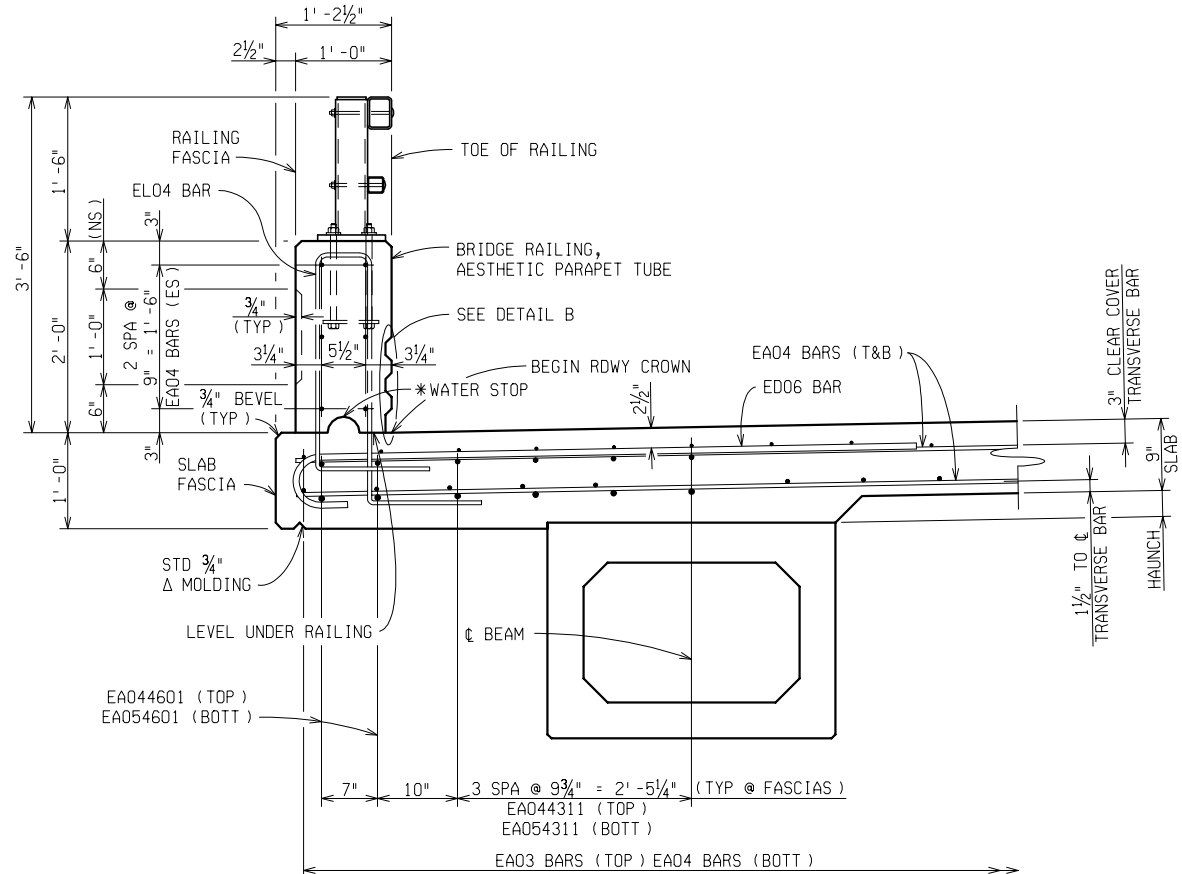
SECTION C-C

CAST LOWER PORTION OF THE BACKWALL
PRIOR TO PLACING DECK REINFORCEMENT.



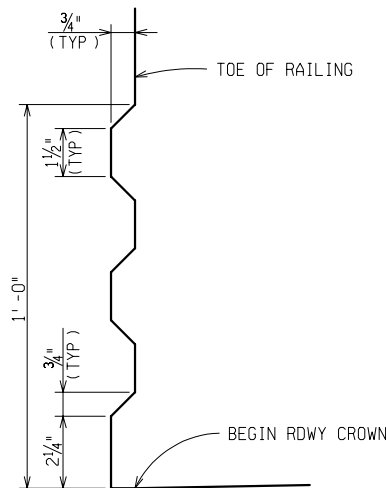
SECTION D-D

CAST LOWER PORTION OF THE BACKWALL
PRIOR TO PLACING DECK REINFORCEMENT.



TYPICAL RAILING SECTION

*2" X 4" ± FORMING NOT REQUIRED



DETAIL B



SUPERSTRUCTURE DETAILS

DATE	CONT. SEC.	JOB NO.	DESIGN UNIT	SHEET
B02 OF 38051	53274A			28 OF 32

FILE NAME: 60238051ak4.dgn

DATE:

CORRECTED BY:

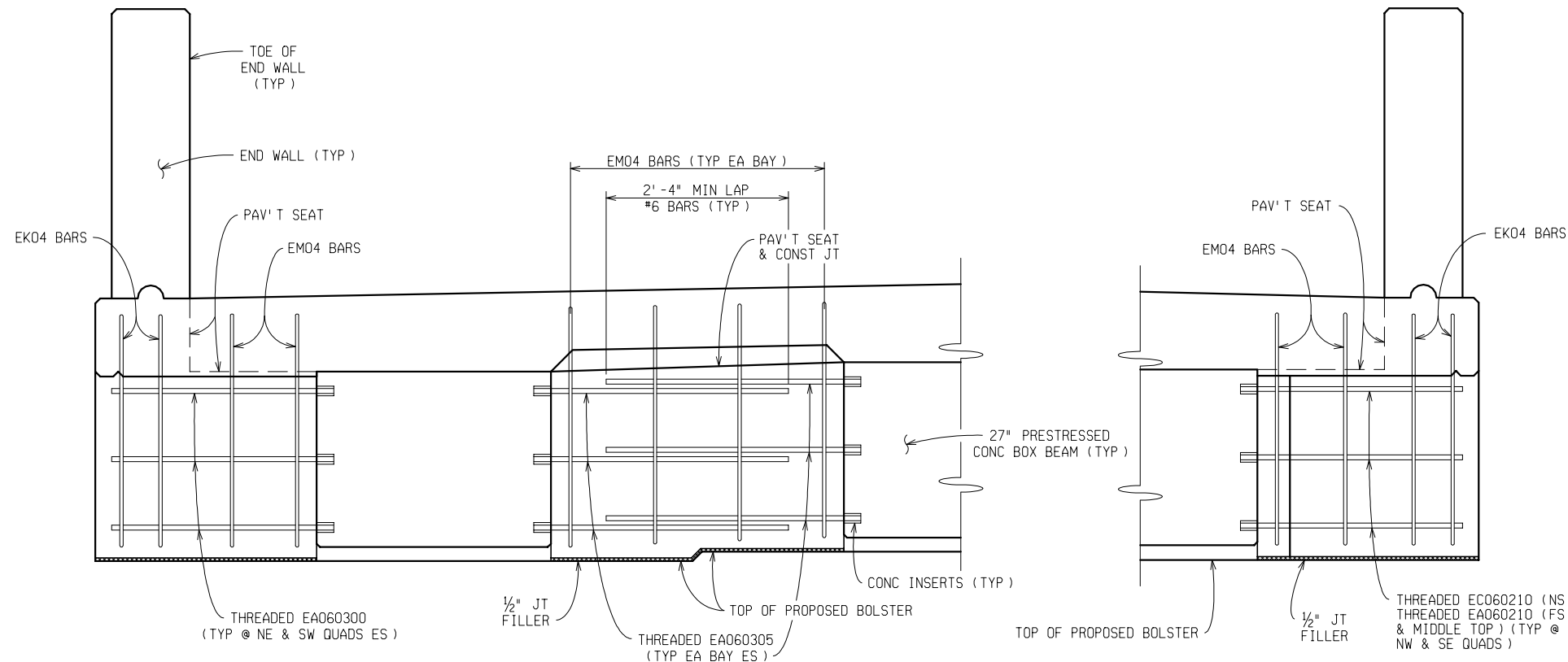
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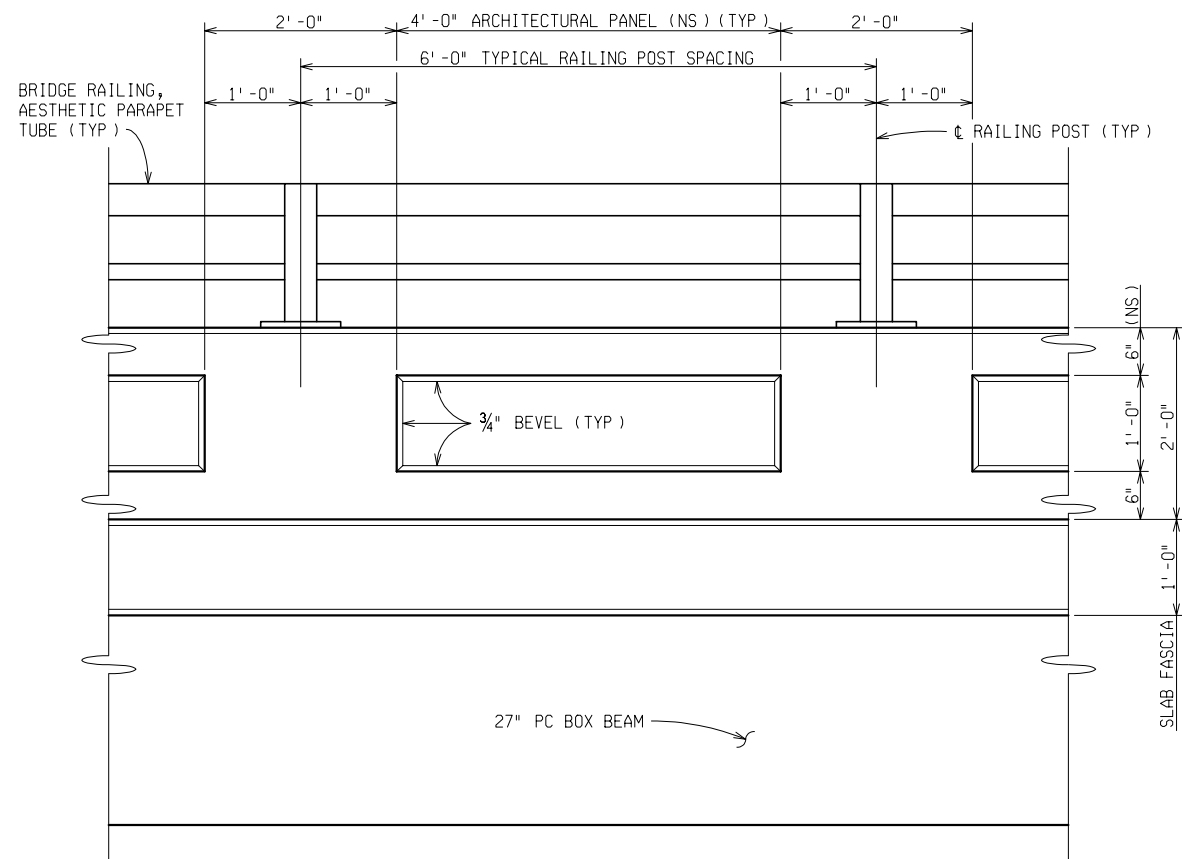
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PARTIAL BACKWALL ELEVATION
(LOOKING UP STATION)

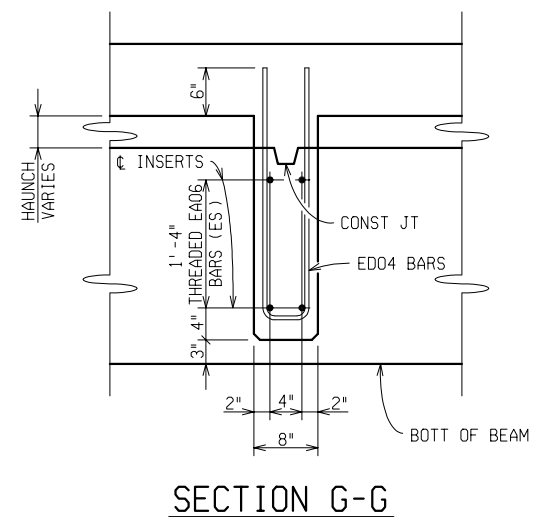
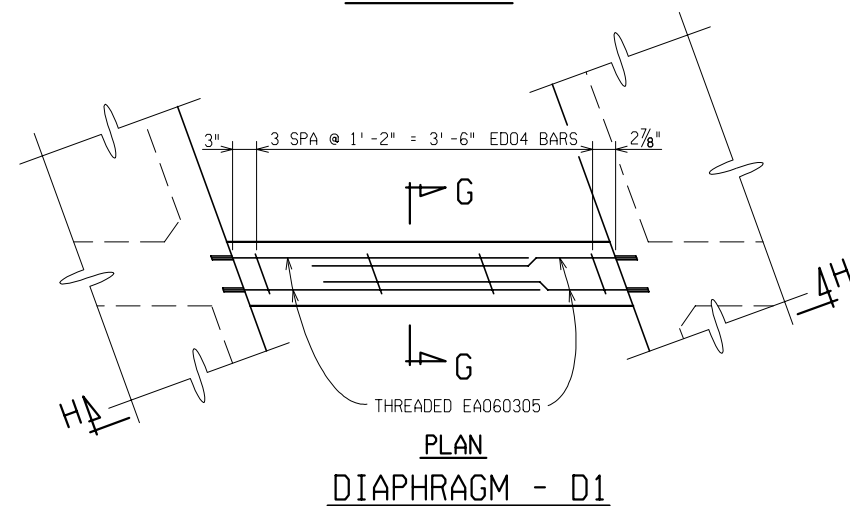
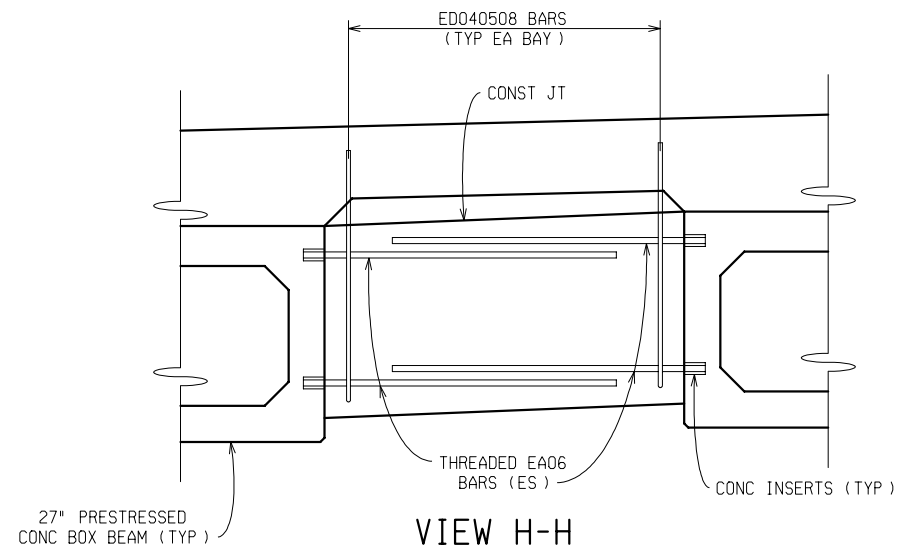
PARTIAL BACKWALL ELEVATION
(SHOWN @ NW & SE QUADS)



RAILING ELEVATION - ARCHITECTURAL DETAILS

SHOWING ARCHITECTURAL TREATMENT ON FASCIA SIDE OF
BRIDGE RAILING, AESTHETIC PARAPET TUBE.

NOTE: CONCRETE SURFACE COATING SHALL BE APPLIED TO THE
ENTIRE CONCRETE AREA OF BRIDGE RAILING, AESTHETIC
PARAPET TUBE AND END WALL. SEE SPECIAL PROVISION



	SUPERSTRUCTURE DETAILS			
	DATE	CONT. SEC.	JOB NO.	DESIGN UNIT
		B02 OF 38051	53274A	
				SHEET 29 OF 32

FILE NAME: 60238051ak4.dgn
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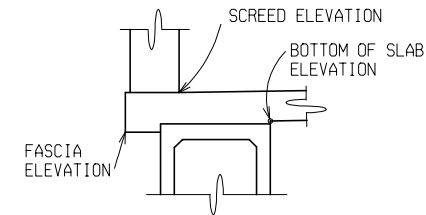
REVISIONS			
NO.	DESCRIPTION	DATE	BY

BOTTOM OF SLAB ELEVATIONS

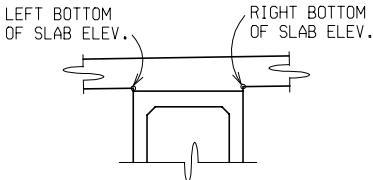
		REF.A	SPAN 1					REF.B
			0	1	2	3	4	
A	FASCIA		921.80	921.75	921.67	921.57	921.44	
	RIGHT		922.15	922.10	922.02	921.92	921.79	
B	LEFT		922.24	922.18	922.10	922.00	921.88	
	RIGHT		922.31	922.25	922.17	922.07	921.95	
C	LEFT		922.39	922.34	922.26	922.15	922.03	
	RIGHT		922.46	922.41	922.33	922.22	922.10	
D	LEFT		922.48	922.43	922.35	922.24	922.12	
	RIGHT		922.41	922.36	922.28	922.17	922.05	
E	LEFT		922.37	922.31	922.23	922.13	922.01	
	RIGHT		922.30	922.24	922.16	922.06	921.94	
F	LEFT		922.25	922.20	922.12	922.02	921.89	
	FASCIA		921.91	921.85	921.78	921.67	921.55	

SCREED ELEVATIONS

LEFT	922.79	922.74	922.66	922.56	922.43
CENTER	923.26	923.19	923.12	923.01	922.89
RIGHT	922.92	922.86	922.78	922.68	922.55



TYPICAL FASCIA SECTION



TYPICAL INTERIOR SECTION

(LOOKING UP STATION)

BULKHEAD ELEVATIONS

	ABUT.A	ABUT.B
A	922.87	922.50
B	923.03	922.66
C	923.18	922.81
D	923.20	922.83
E	923.09	922.72
F	922.97	922.60

NOTES:

- SCREED RAILS FOR FINISHING OF STRUCTURAL CONCRETE SHALL BE LOCATED OVER FASCIA BEAMS.
- BOTTOM OF SLAB ELEVATIONS ARE AT RIGHT ANGLES TO THE BEAM CENTERLINE AND ARE BASED ON THE CONDITION THAT THE BEAMS AND DIAPHRAGMS ARE COMPLETELY ERECTED WITH NO OTHER LOADS APPLIED. THESE ELEVATIONS INCLUDE ALLOWANCE FOR DEFLECTION DUE TO FORMS, STEEL REINFORCEMENT, CONCRETE SLAB AND RAILINGS.
- SCREED ELEVATIONS ARE BASED ON THE CONDITION THAT NO SLAB CONCRETE HAS BEEN CAST AND THAT FORMWORK AND STEEL REINFORCEMENT ARE IN PLACE.
- SECTIONS FOR BOTTOM OF SLAB AND/OR SCREED ELEVATIONS ARE GIVEN ALONG BEAM CENTERLINES FROM CENTERLINE OF BEARING TO CENTERLINE OF BEARING AT EQUAL SPACINGS.

	SLAB AND SCREED DETAILS				
	DATE	CONT. SEC.	JOB NO.	DESIGN UNIT	SHEET
	B02 OF 38051		53274A		30 OF 32

FILE NAME: 60238051ss.ss

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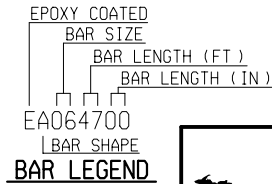
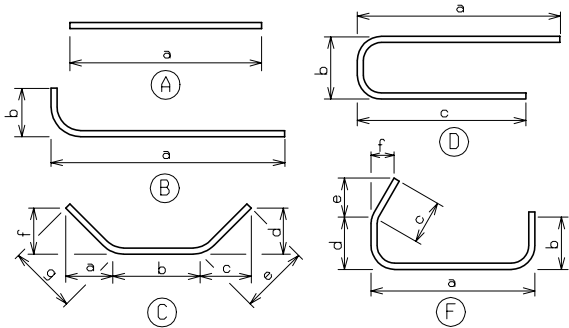
ABUTMENT A

[illegible]

ABUTMENT B

[illegible]

REVISIONS			
NO.	DESCRIPTION	DATE	BY



REINFORCEMENT SHALL BE BUNDLED AND TAGGED AS TO THE LOCATION AS SHOWN
ON THIS SHEET.



STEEL REINFORCEMENT DETAILS				
DATE	CONT. SEC.	JOB NO.	DESIGN UNIT	SHEET
	B02 OF 38051	53274A		31 OF 32

FILE NAME: b0238051rs.dgn

DATE:

CHECKED BY:

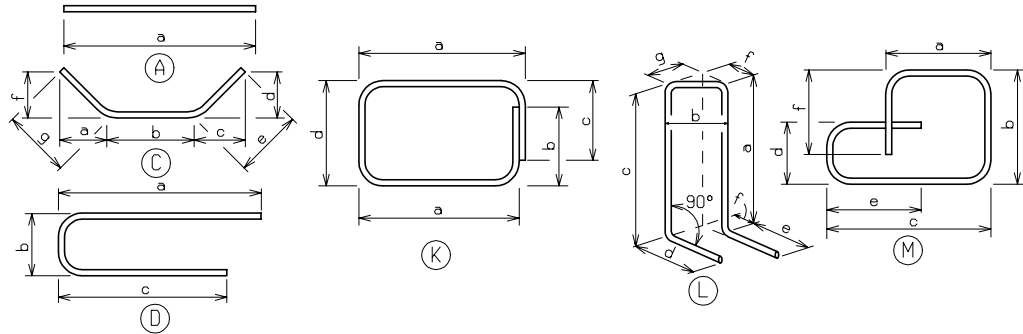
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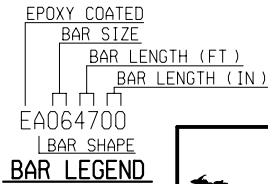
SUPERSTRUCTURE

[illegible]

* THREADED BARS



MISCELLANEOUS QUANTITIES	
13,919 Lb	Reinforcement, Steel, Epoxy Coated



REINFORCEMENT SHALL BE BUNDLED AND TAGGED AS TO THE LOCATION AS SHOWN
ON THIS SHEET.

 Michigan Department of Transportation	STEEL REINFORCEMENT DETAILS
DATE	CONT. SEC.
B02 OF 38051	53274A

REVISIONS			
NO.	DESCRIPTION	DATE	BY

FILE NAME: b0238051rs.dgn

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