

GUIDEWAY STRUCTURES GENERAL NOTES:

ADHERE TO THESE GENERAL NOTES UNLESS OTHERWISE NOTED IN THE DRAWINGS.

- GENERAL:
- DESIGN BASED ON "EARLY GEOTECHNICAL RECOMMENDATIONS PACKAGE FOR OMFS SOUTH PRELIMINARY ENGINEERING", DATED TBD, BY SHANNON & WILSON.
 - THESE NOTES APPLY TO THE MAINLINE GUIDEWAY STRUCTURES SHOWN ON THE S08 SERIES SHEETS AS WELL AS THE LEAD TRACK GUIDEWAY STRUCTURES SHOWN THE M08 SERIES SHEETS.

DESIGN CODES, STANDARDS AND SPECIFICATIONS:
ALL DESIGN IS IN ACCORDANCE WITH THE 2023 SOUND TRANSIT REQUIREMENTS MANUAL (STRM).

DESIGN LOADS:

UNIT WEIGHTS

1. CONCRETE, PLAIN	145 PCF
2. CONCRETE, REINFORCED	155 PCF
3. CONCRETE, PRESTRESSED	165 PCF
4. REINFORCING AND STRUCTURAL STEEL	490 PCF
5. STRUCTURAL BACKFILL	130 PCF

SUPERIMPOSED DEAD LOADS (ALLOWANCE)

1. TRACKWORK (NON-SPECIAL)	800 PLF/TRACK
2. GUIDEWAY HANDRAIL (EACH)	50 PLF
3. OCS POLES	NOT INCLUDED AT THIS PHASE
4. GUIDEWAY ACOUSTIC PANELS (EACH)	170 PLF
5. GUIDEWAY SYSTEMS DUCTBANK	89 PLF
6. GUIDEWAY DRAINAGE PIPING (EACH)	50 PLF
7. ELEVATED EMERGENCY WALKWAY (EACH)	13 PLF

LIVE LOADS

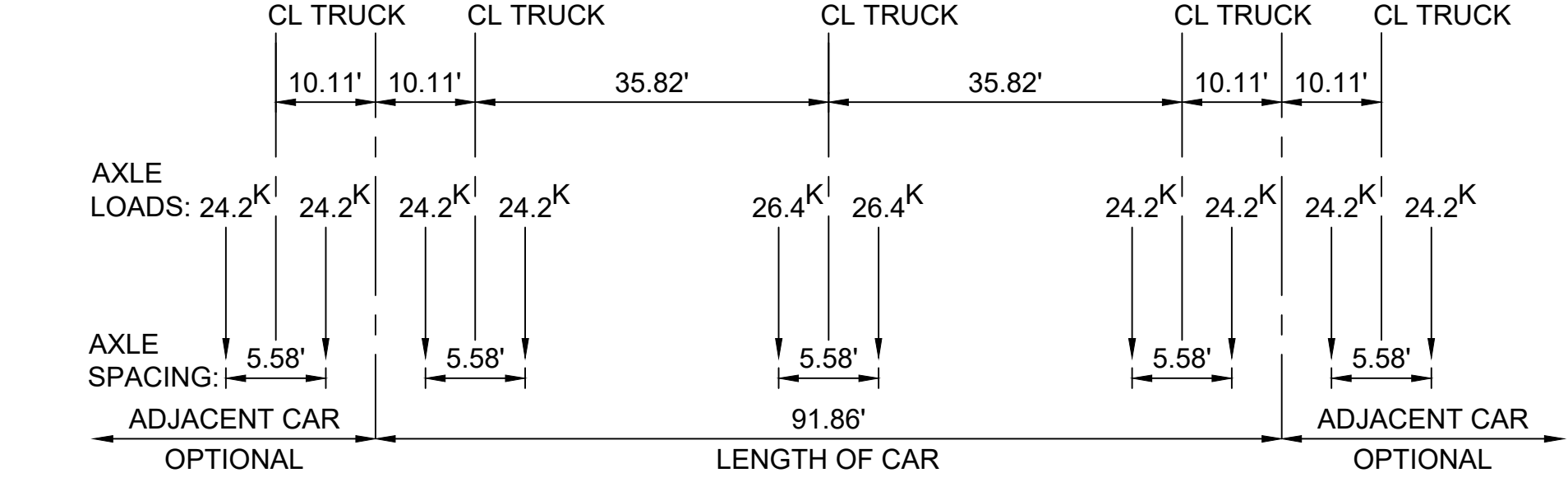
1. ELEVATED EMERGENCY WALKWAYS	100 PSF
2. GUIDEWAY SNOW LOAD	25 PSF

EARTH PRESSURES FOR ABUTMENTS AND CANTILEVER CONCRETE WALLS

1. ACTIVE EARTH PRESSURE	31 PCF, TRIANGULAR
2. AT-REST EARTH PRESSURE	49 PCF, TRIANGULAR
3. ODE EQ EARTH PRESSURE	47 PCF, TRIANGULAR
4. MDE EQ EARTH PRESSURE (RESTRAINED)	143 PCF, TRIANGULAR
5. MDE EQ EARTH PRESSURE (UNRESTRAINED)	62 PCF, TRIANGULAR
6. VEHICLE TRAFFIC SURCHARGE (LS LOADING)	62 PSF, UNIFORM
7. LRT SURCHARGE (LS LOADING)	94 PSF, UNIFORM

EARTH PRESSURES ARE BASED ON SITE CLASS D AND USE OF GRAVEL BACKFILL FOR WALLS.

- LIGHT RAIL VEHICLE
- SOUND TRANSIT REQUIREMENTS MANUAL 721.3.3.2 AND FIGURE BELOW (AW3 SHOWN).



- DERAILMENT LOADS
- SOUND TRANSIT REQUIREMENTS MANUAL 721.2.3.9

- SEISMIC LOADS
- SOUND TRANSIT REQUIREMENTS MANUAL 721.2.21

MATERIAL PROPERTIES:

28-DAY CONCRETE DESIGN STRENGTH

1. DRILLED SHAFTS	f _c = 5,000 PSI
2. COLUMNS, BENT CAPS, AND ABUTMENTS	f _c = 4,000 PSI
3. TRACK SLAB AND DIAPHRAGMS	f _c = 4,000 PSI
4. POST-TENSIONED CAST-IN-PLACE CONCRETE BOX SUPERSTRUCTURE	f _c = 6,000 PSI
5. PRESTRESSED CONCRETE GIRDERS	f _c = 9,200 PSI
6. TRACKWORK PLINTHS	f _c = 4,000 PSI
7. STRUCTURAL CONCRETE (NOT OTHERWISE DESIGNATED)	f _c = 4,000 PSI
8. MUD SLAB	f _c = 2,500 PSI
9. LEAN CONCRETE	f _c = 1,000 PSI

REINFORCING AND PRESTRESSING STEEL

1. REINFORCING STEEL TYP, UNO	f _y = 60 KSI, ASTM A706
2. REINFORCING STEEL FOR TRACK SLAB	f _y = 60 KSI, ASTM A615
3. PRESTRESSING STEEL STRANDS	f _{pu} = 270 KSI, ASTM A416
4. PRESTRESSING STEEL BARS	f _{pu} = 150 KSI, ASTM A722

STRUCTURAL STEEL

1. ROLLED SHAPES	f _y = 50 KSI, ASTM A992
2. PLATES AND BARS	f _y = 36 KSI, ASTM A36
3. HOLLOW STEEL TUBING (CIRCULAR OR RECTANGULAR)	f _y = 50 KSI, ASTM A500, GRADE C

REINFORCED CONCRETE:

CONCRETE COVER OVER REINFORCING

1. DRILLED SHAFTS	6"
2. CONCRETE CAST AGAINST EARTH	3"
3. CONCRETE EXPOSED TO EARTH	2"
4. TOP OF TRACK SLAB	2-1/2"
5. BOTTOM OF TRACK SLAB	1-1/2"
6. ALL OTHER CAST-IN-PLACE CONCRETE	
PRIMARY REINFORCEMENT	2"
STIRRUPS, TIES, HOOPS	1-1/2"
7. PRECAST GIRDERS	
PRIMARY REINFORCEMENT	2"
STIRRUPS, TIES	1"

- REINFORCING BAR DETAILS
- BENDS AND HOOKS SHALL CONFORM TO ACI 315 REQUIREMENTS,
 - LAP SPLICES SHALL BE CLASS B, AND STAGGERED.

STRUCTURAL STEEL:

HIGH-STRENGTH BOLTS

1. ASTM F3125 GR A325
2. SLIP-CRITICAL CONNECTIONS, DIRECT TENSION INDICATING METHOD
3. GALVANIZED

- ANCHOR RODS
- ASTM F1554 GR 55, UNO
 - HOT-DIP GALVANIZED

- WELDING
- AWS D1.5 REQUIREMENTS FOR GUIDEWAY STRUCTURE
 - AWS D1.1 REQUIREMENTS OTHERWISE

- FINISHES
- STEEL EXPOSED WEATHER SHALL RECEIVE ONE COAT OF SHOP PRIMER AND TWO FINISH TOP COATS.
 - STEEL NOT EXPOSED TO WEATHER SHALL BE HOT-DIP GALVANIZED.

- RETAINING WALLS:
- MECHANICALLY STABILIZED EARTH (MSE) WALL:
- PARAMETERS FOR ENGINEERING ANALYSIS
- MSE WALLS SHALL BE DESIGNED BY THE WALL SUPPLIER. SUBMITTAL REQUIREMENTS SHALL BE IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS. MSE WALL SUPPLIER IS RESPONSIBLE FOR THE DESIGN OF INTERNAL, EXTERNAL (SLIDING, OVERTURNING, AND BEARING), AND COMPOUND STABILITY.
 - MSE WALLS SUPPORTING ABUTMENT FOOTINGS SHALL BE SPECIAL DESIGNED WALL SYSTEMS, AND SHALL CONFORM TO WSDOT GDM SECTION 15-5.3.6 "MSE WALL SUPPORTED ABUTMENTS". ALL BEARING PRESSURES FOR THE ABUTMENT SPREAD FOOTINGS HAVE BEEN DESIGNED NOT TO EXCEED 6.0 KSF (SERVICE) AND 9.0 KSF (STRENGTH). A VERTICAL SETTLEMENT MONITORING PROGRAM SHALL BE CONDUCTED FOR EACH ABUTMENT SPREAD FOOTING SUPPORTED BY MSE WALLS.

WALL EMBEDMENT:

FOR FROST PROTECTION, EROSION PROTECTION, SLIDING RESISTANCE AND TO COMPLY WITH WSDOT SPECIFICATIONS, THE FACE OF ALL WALLS SHALL BE EMBEDDED THE GREATER OF:

- 2.0 FEET
- 0.05H FOR WALLS SUPPORTED BY LEVEL GRADE
- 0.14H FOR WALLS SUPPORTED BY FORESLOPE.

UNLESS A GREATER EMBEDMENT IS REQUIRED DUE TO LOCAL SOIL CONDITIONS, AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, FHWA NHI-10-024. EMBEDMENT IS MEASURED FROM THE BOTTOM OF ANY TOPSOIL, LANDSCAPING LAYER, OR TRACK BALLAST.

- DIMENSIONS:
- ALL PLAN DIMENSIONS SHALL BE MEASURED IN A TRUE HORIZONTAL PLANE.
 - ALL VERTICAL DIMENSIONS SHALL BE MEASURED IN A TRUE VERTICAL PLANE.
 - FIELD VERIFY ALL DIMENSIONS AND CONDITIONS.
 - DO NOT SCALE DRAWINGS.

- MISCELLANEOUS:
- REFER TO ARCHITECTURAL, MECHANICAL, ELECTRICAL, AND SYSTEMS DRAWINGS FOR LOCATION AND DIMENSIONS OF PIPING, CONDUITS, ANCHOR BOLTS AND OTHER FEATURES NOT SHOWN.
 - PROVIDE TEMPORARY BRACING AND SHORING AS REQUIRED FOR STABILITY AND PROTECTION OF THE STRUCTURE DURING ALL PHASES OF CONSTRUCTION.
 - BONDING FOR ELECTRICAL CONTINUITY IS REQUIRED FOR ALL STRUCTURAL ELEMENTS.

- GUIDEWAY STRUCTURE A DRILLED SHAFT:
- DRILLED SHAFTS ARE IN CLOSE PROXIMITY TO EXISTING UTILITIES, BUILDINGS, AND STRUCTURES. REFER TO THE UTILITY DRAWINGS, AGREEMENTS, AND OTHER CONTRACT DOCUMENTS FOR MORE INFORMATION ON WHICH ARE DESIGNATED TO REMAIN AND BE PROTECTED-IN-PLACE BY THE CONTRACTOR, AND FOR REQUIREMENTS RELATED TO PROTECTION AND MONITORING OF EXISTING INFRASTRUCTURE.
 - SHAFT LOCATIONS AND SIZES SHALL BE ADJUSTED DURING FINAL DESIGN TO CONFORM TO RIGHT-OF-WAY AGREEMENTS WITH UTILITY AND PROPERTY OWNERS, AND AGREEMENTS WITH THE CITY OF FEDERAL WAY.
 - SHAFT CASINGS ARE ASSUMED TO BE INSTALLED VIA THE OSCILLATOR / ROTATOR METHOD.
 - TEMPORARY AND PERMANENT CASING ARE ASSUMED TO BE REQUIRED TO MITIGATE AGAINST MOVEMENT OF SOILS THAT MAY BE SUBJECT TO CAVING. REFER TO THE GEOTECHNICAL REPORTS.
 - CONSIDERATIONS OF IN-SERVICE GUIDEWAY LOADING EFFECTS ON ADJACENT UTILITIES, BUILDINGS, AND STRUCTURES SHALL BE TAKEN DURING FINAL DESIGN IN ACCORDANCE WITH THE CONTRACT DOCUMENTS AND THE INFRASTRUCTURE OWNERS' REQUIREMENTS. COMBINED COLUMN SILO - SHAFT ISOLATION CASINGS OR OTHER MEASURES MAY BE NECESSARY.

SITE WALLS SUPPORTING, PROTECTING, OR POTENTIALLY IMPACTING TRACK
GENERAL NOTES:

GUIDEWAY STRUCTURES GENERAL NOTES APPLY UNLESS OTHERWISE NOTED.

DESIGN CODES, STANDARDS, AND SPECIFICATIONS :
ALL DESIGN IN ACCORDANCE WITH THE 2023 SOUND TRANSIT REQUIREMENTS MANUAL.

OTHER STRUCTURES NOT SUPPORTING, PROTECTING, OR POTENTIALLY IMPACTING TRACK
GENERAL NOTES:

GUIDEWAY STRUCTURES GENERAL NOTES APPLY UNLESS OTHERWISE NOTED.

- DESIGN CODES, STANDARDS, AND SPECIFICATIONS :
- WSDOT BRIDGE DESIGN MANUAL (WSDOT BDM), M 23-50.22, SEPTEMBER 2023.
 - AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN (AASHTO SEISMIC), 2ND EDITION.
 - AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS, 9TH EDITION.

DESIGN LOADS :
SAME AS GUIDEWAY STRUCTURES GENERAL NOTES, EXCEPT GUIDEWAY DEAD LOADS, LIGHT RAIL VEHICLE, AND DERAILMENT LOADS DO NOT APPLY. EARTH PRESSURES FOR ODE/MDE DO NOT APPLY AND EARTH PRESSURES ARE IN ACCORDANCE WITH THE GEOTECHNICAL RECOMMENDATIONS PACKAGE.

SEISMIC LOADS ARE NOT IN ACCORDANCE WITH THE STRM, AND INSTEAD ARE IN ACCORDANCE WITH THE WSDOT BDM.

NOT FOR
CONSTRUCTION

Refer to the plan set COVER drawing
for disclaimers regarding this drawing.

REFERENCE CONCEPT DRAWINGS						AHJ:		PACKAGE #	
						DESIGNED BY:	PRELIMINARY STATE OF WASHINGTON BRILLIAN JAMES REGISTERED PROFESSIONAL ENGINEER		SCALE:
						DRAWN BY:			FILENAME:
						A. VALENCIA			OMFS-STD-SZN001
						CHECKED BY:			CONTRACT No.:
						J. MERTH			AE-0030-17
						APPROVED BY:			DATE:
						B. HARRIS			2/27/2024
No.	DATE	DSN	CHK	APP	REVISION			SUBMITTED BY:	DATE:
								PABLO LOPEZ-HILFIKER	2/27/2024
								REVIEWED BY:	DATE:
									2/27/2024

LINE IS 1" AT FULL SCALE

SOUND TRANSIT PRELIMINARY ENGINEERING PLANS OPERATIONS & MAINTENANCE FACILITY SOUTH		DRAWING No.:
		STD-SZN001
		FACILITY ID:
		SHEET No.: REV:
STRUCTURAL GUIDEWAY, RETAINING WALL, AND BRIDGE GENERAL NOTES		

1. SPAN LENGTH MEASURED ALONG THE SOUTH BOUND (SB) TRACK.
2. FOR TRACK HORIZONTAL CURVE AND PROFILE DATA, SEE TRACK PLAN AND PROFILE DRAWINGS.
3. COLUMN SILOS NOT SHOWN. COLUMN SILOS, ADJUSTMENTS TO COLUMN AND FOUNDATION SIZES, SPAN ARRANGEMENT, AND SUPERSTRUCTURE ARTICULATION MAY ALL REQUIRE CHANGES IN FINAL DESIGN TO MEET STRM BALANCED STIFFNESS AND BALANCED FRAME GEOMETRY REQUIREMENTS.
4. SEE GUIDEWAY GENERAL NOTES FOR NOTES ON DRILLED SHAFT CONSTRUCTION FOR STRUCTURE A.

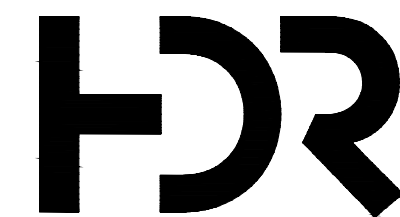
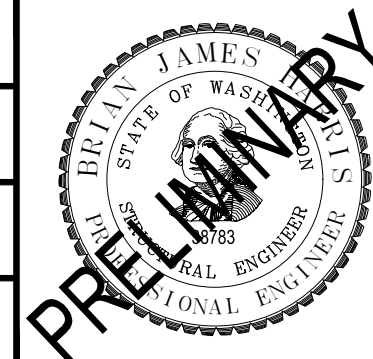


NOT FOR
CONSTRUCTION

REFERENCE CONCEPT DRAWINGS

No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY:	B. ROGERS
DRAWN BY:	A. VALENCIA
CHECKED BY:	J. MERTH
APPROVED BY:	B. HARRIS



SUBMITTED BY:
PABLO LOPEZ-HILFIKER

DATE:
2/27/2024

REVIEWED BY:

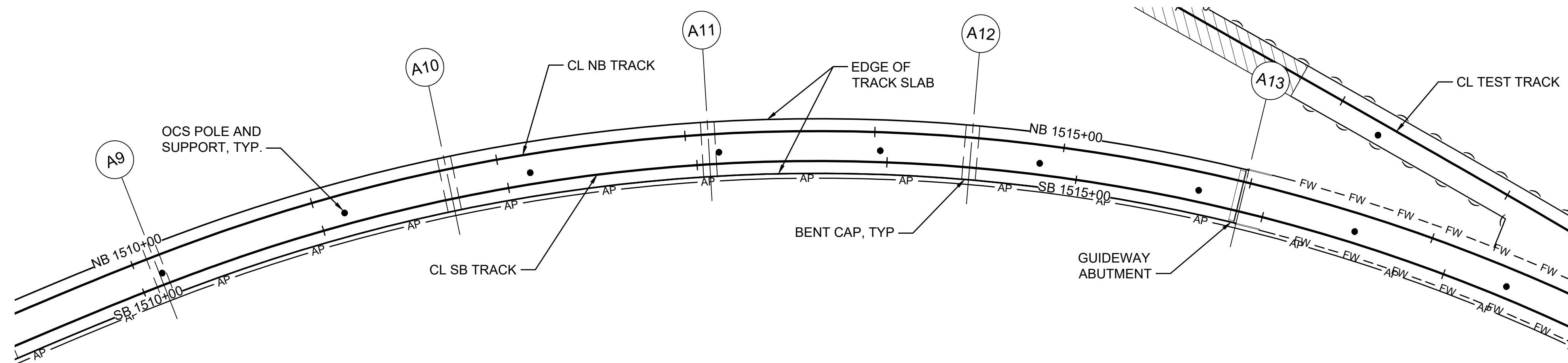


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CONTRACT No.:	AE-0030-17
DATE:	2/27/2024

**SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH
STRUCTURAL
MAINLINE STRUCTURES PLAN AND PROFILE
STA 1500+00 TO STA 1510+50**

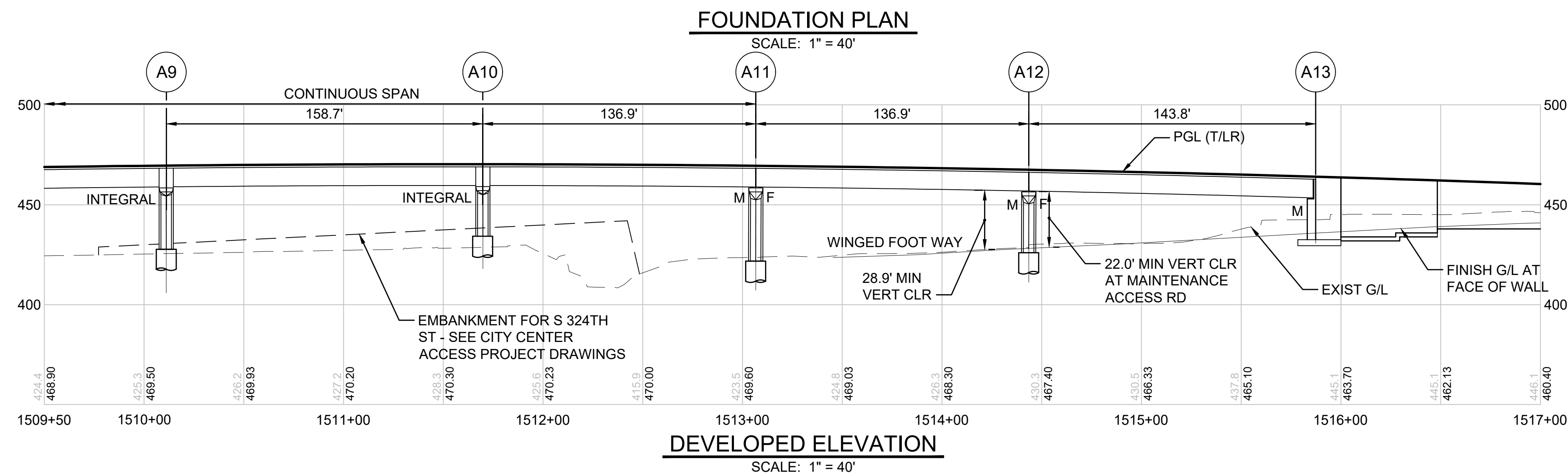
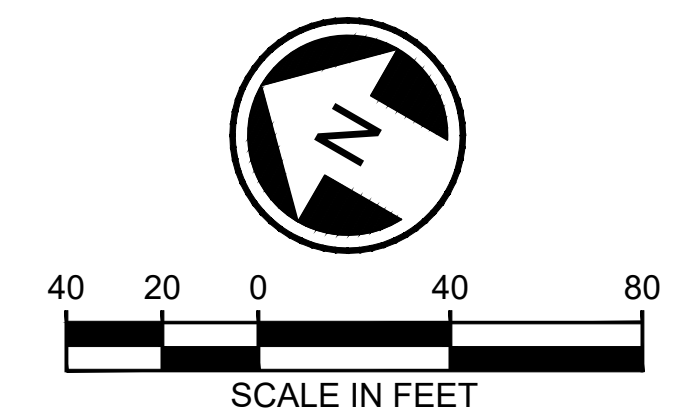
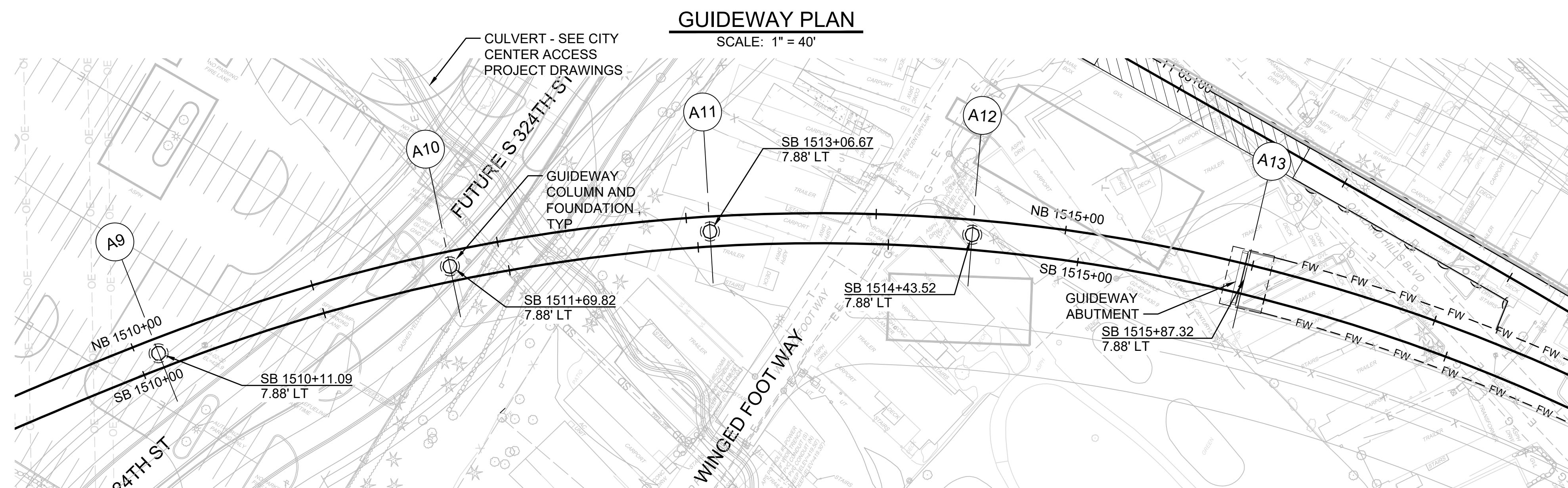
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FACILITY ID:	
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SHEET No.:	REV:



GENERAL NOTES:

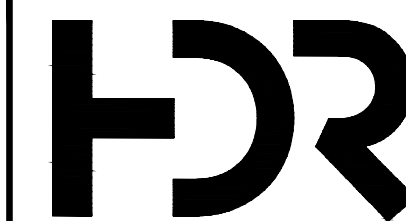
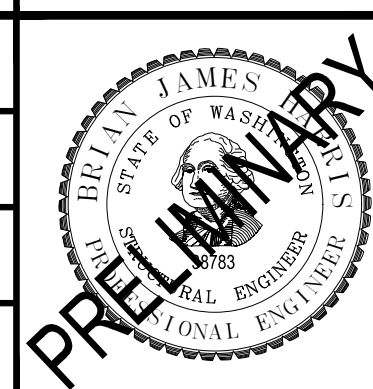
1. SPAN LENGTH MEASURED ALONG THE SOUTH BOUND (SB) TRACK.
2. FOR TRACK HORIZONTAL CURVE AND PROFILE DATA, SEE TRACK PLAN AND PROFILE DRAWINGS.
3. COLUMN SILOS NOT SHOWN. COLUMN SILOS, ADJUSTMENTS TO COLUMN AND FOUNDATION SIZES, SPAN ARRANGEMENT, AND SUPERSTRUCTURE ARTICULATION MAY ALL REQUIRE CHANGES IN FINAL DESIGN TO MEET STRM BALANCED STIFFNESS AND BALANCED FRAME GEOMETRY REQUIREMENTS.
4. SEE GUIDEWAY GENERAL NOTES FOR NOTES ON DRILLED SHAFT CONSTRUCTION FOR STRUCTURE A.

SEE DRAWING S08-SEP103



NOT FOR
CONSTRUCTION

AHJ:



SUBMITTED BY:
PABLO LOPEZ-HILFIKER

DATE:	2/27/2024
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REVIEWED BY:



DATE:

PACKAGE #	
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SCALE:

1"=40'

FILENAME:

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DATE:

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH

STRUCTURAL
MAINLINE STRUCTURES PLAN AND PROFILE
STA 1509+50 TO STA 1517+00

DRAWING No.:

S08-SEP102

FACILITY ID:

S08

SHEET No.:	REV:
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Refer to the plan set COVER drawing
for disclaimers regarding this drawing.

REFERENCE CONCEPT DRAWINGS

No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY:

B. ROGERS

DRAWN BY:

A. VALENCIA

	CHECKED BY:
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J. MERTH

APPROVED BY:

B. HARRIS

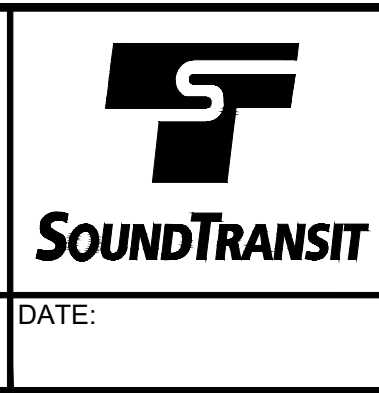
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for disclaimers regarding this drawing.*

REFERENCE CONCEPT DRAWINGS					
No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY:
B. ROGERS
DRAWN BY:
A. VALENCIA
CHECKED BY:
J. MERTH
APPROVED BY:
B. HARRIS



SUBMITTED BY:	DATE:	REVIEWED BY:
PABLO LOPEZ-HILFIKER	2/27/2024	

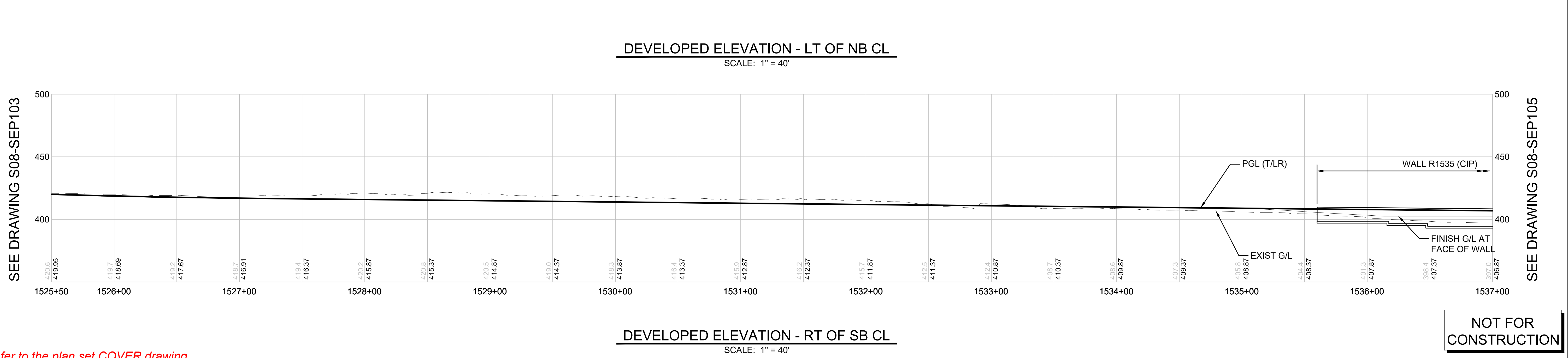
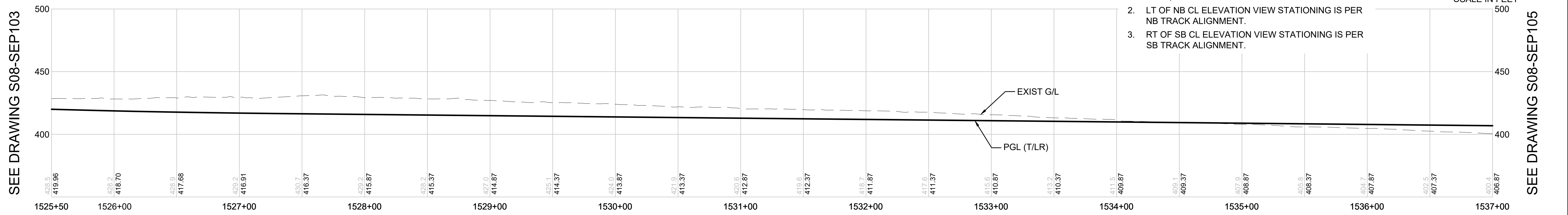
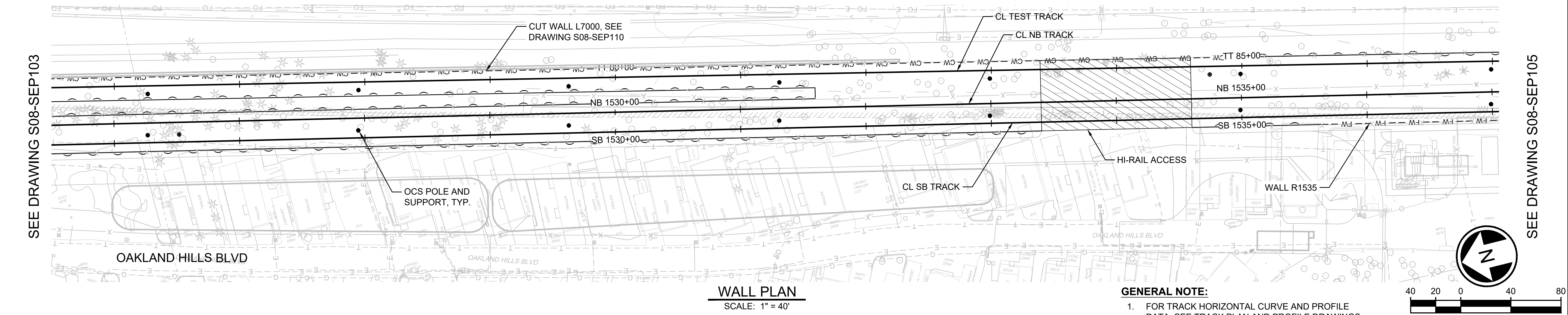


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CONTRACT No.: AE-0030-17
DATE: 2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH

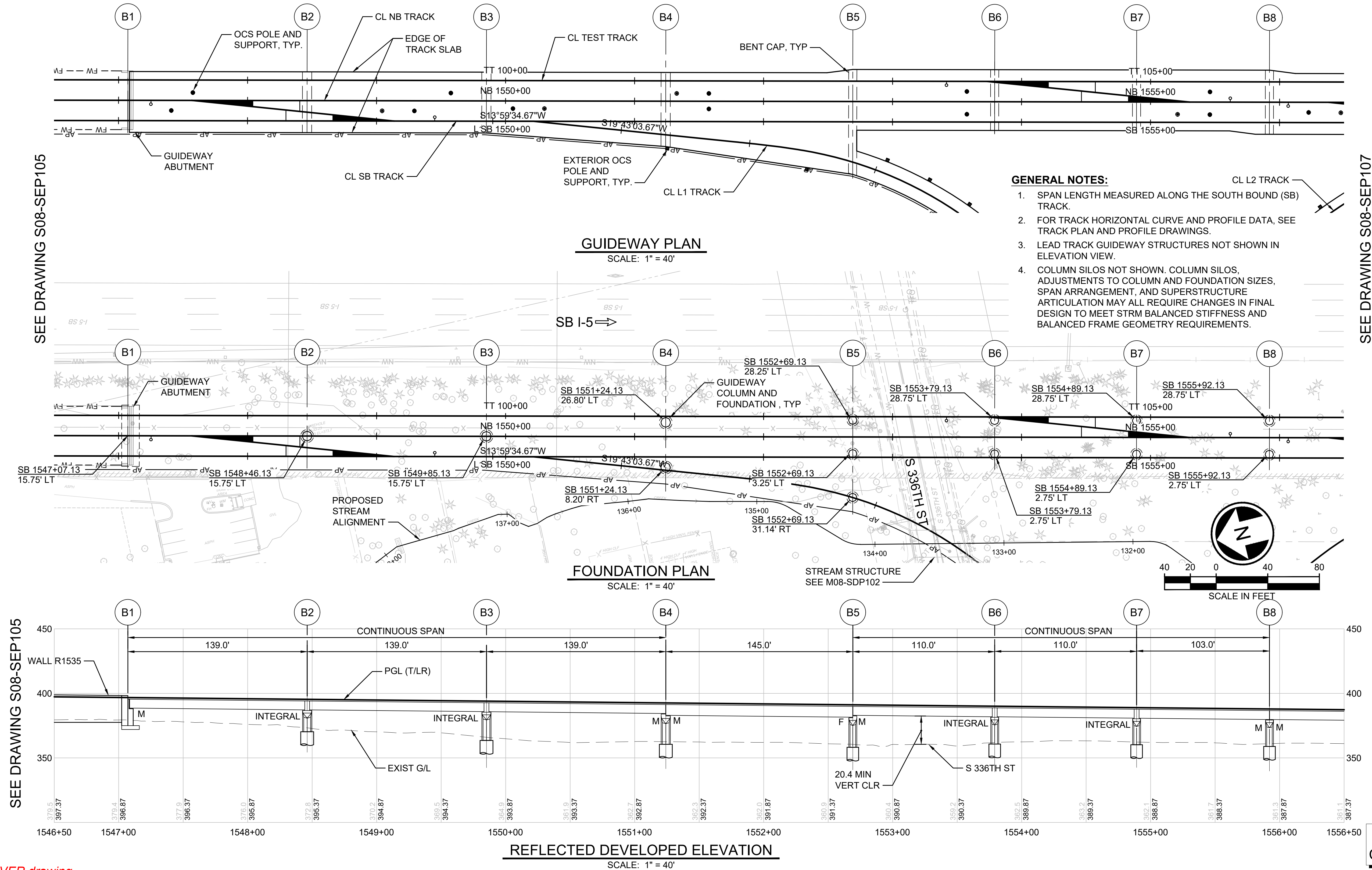
STRUCTURAL
MAINLINE STRUCTURES PLAN AND PROFILE
STA 1525+50 TO STA 1537+00

DRAWING No.:	
S08-SEP104	
FACILITY ID:	
S08	
SHEET No.:	REV:



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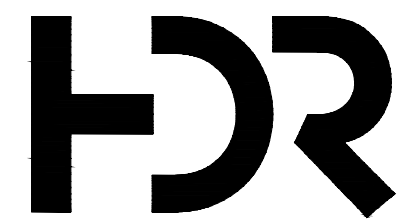
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REFERENCE CONCEPT DRAWINGS										DESIGNED BY: B. ROGERS							LINE IS 1"=40' FULL SCALE		PACKAGE #	SOUND TRANSIT PRELIMINARY ENGINEERING PLANS OPERATIONS & MAINTENANCE FACILITY SOUTH STRUCTURAL MAINLINE STRUCTURES PLAN AND PROFILE STA 1546+50 TO STA 1556+50				DRAWING No.: S08-SEP106		
										DRAWN BY: A. VALENCIA									FILENAME: OMFS-S08-SEP101					FACILITY ID: S08		
										CHECKED BY: J. MERTH									CONTRACT No.: AE-0030-17					SHEET No.: REV:		
										APPROVED BY: B. HARRIS									DATE: 2/27/2024					DATE: 2/27/2024		
										SUBMITTED BY: PABLO LOPEZ-HILFIKER									REVIEWED BY:					DATE:		
No.	DATE	DSN	CHK	APP	REVISION																					

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REFERENCE CONCEPT DRAWINGS					
No.	DATE	DSN	CHK	APP	REVISION

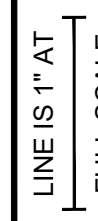
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DRAWN BY:	A. VALENCIA
CHECKED BY:	J. MERTH
APPROVED BY:	B. HARRIS



SUBMITTED BY:
PABLO LOPEZ-HILFIKER

DATE:	2/27/2024
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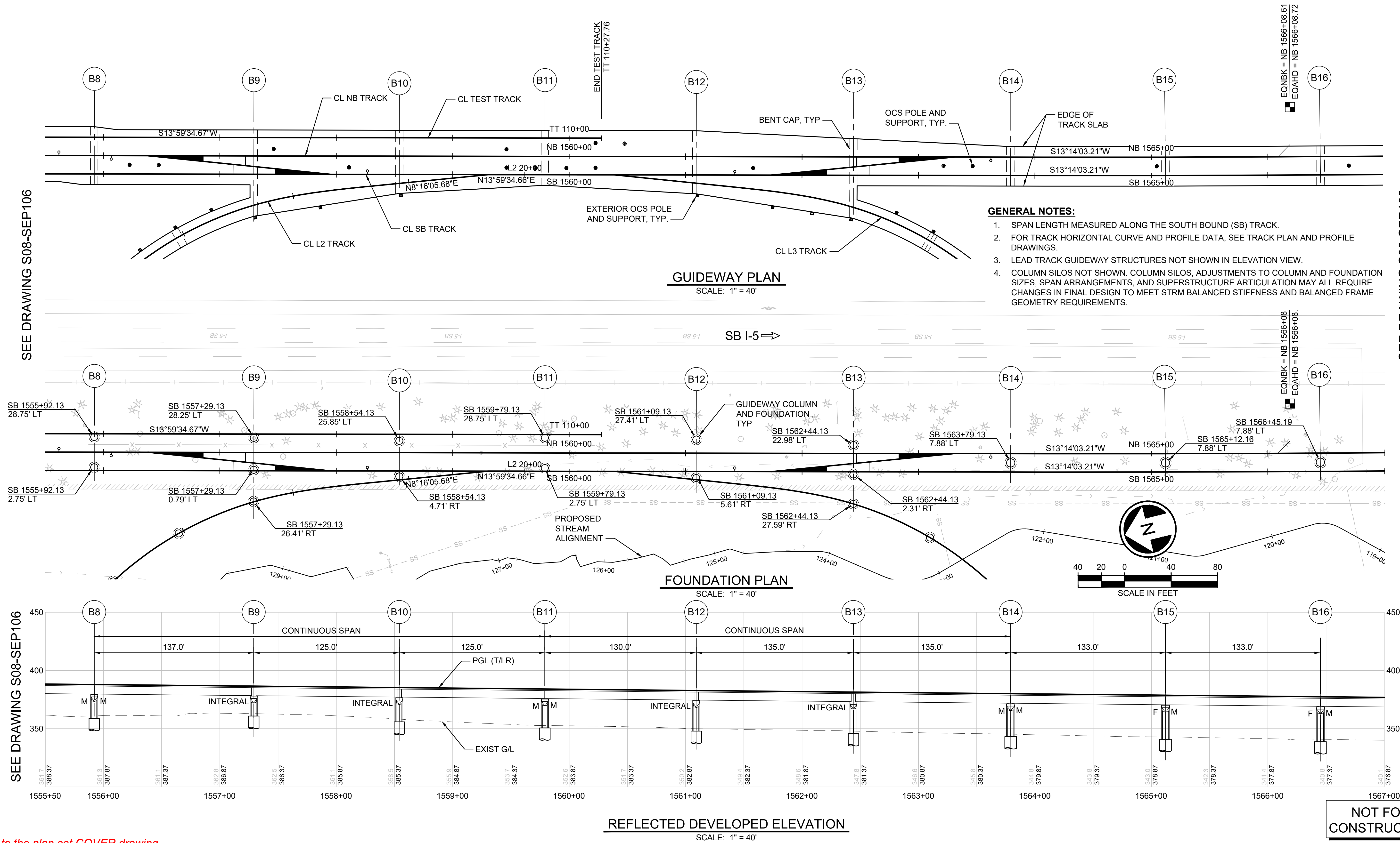
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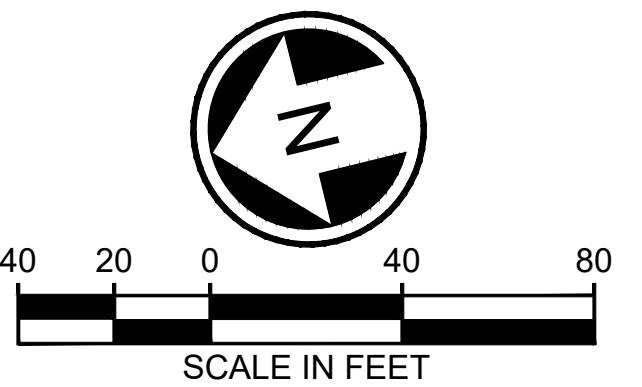
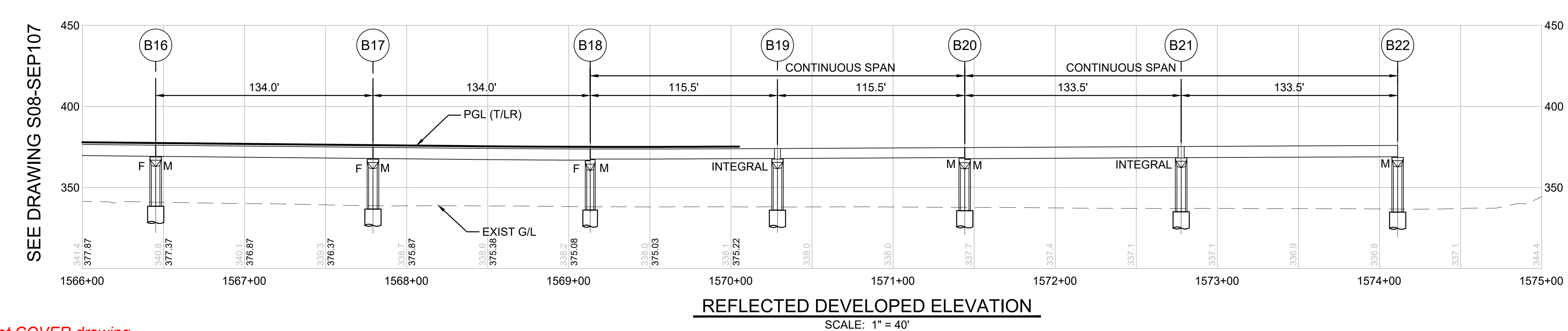
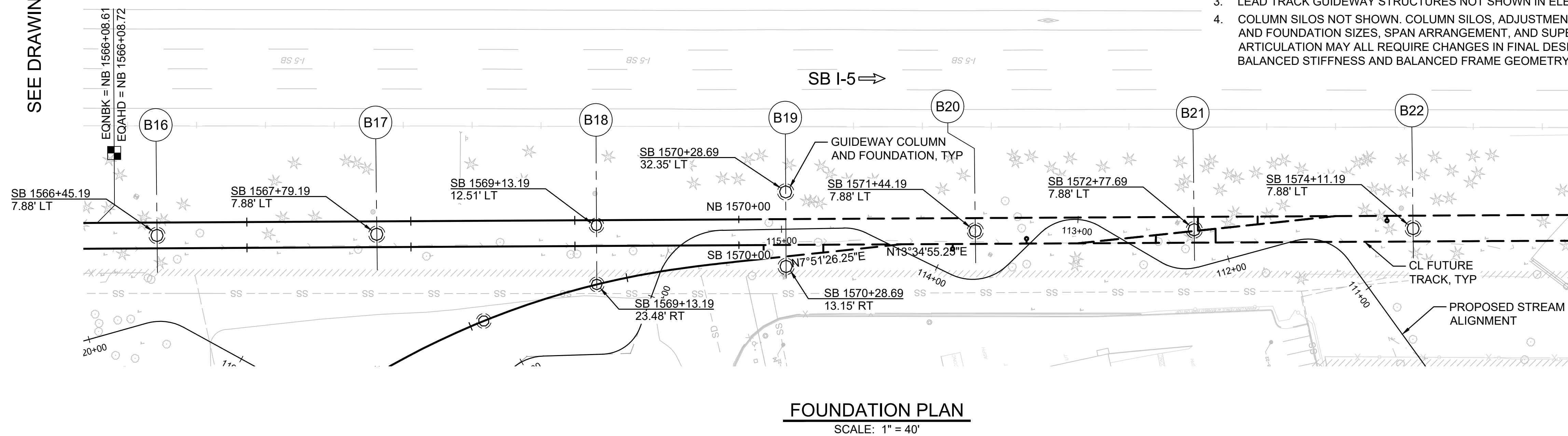
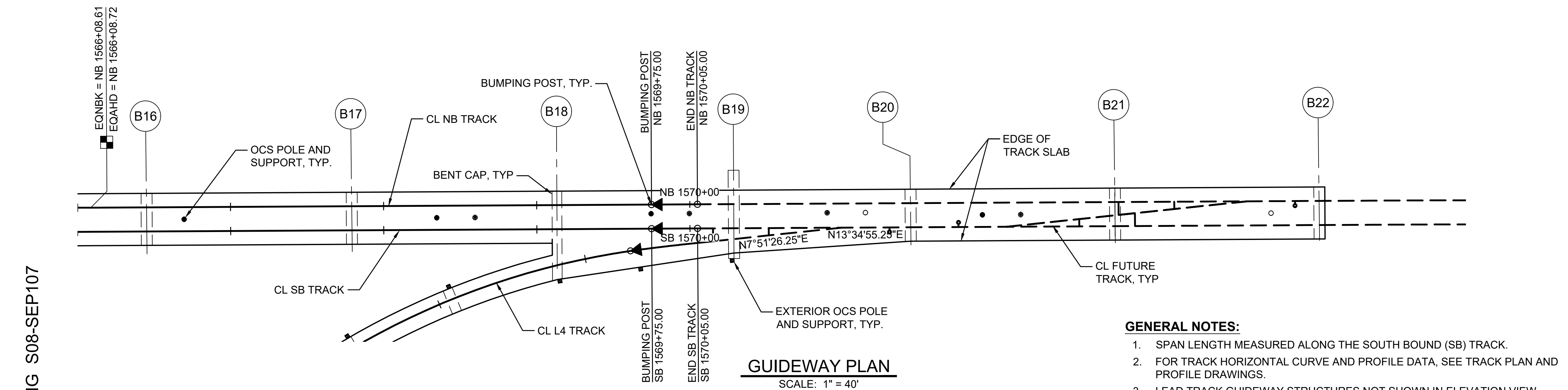
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CONTRACT No.:	AE-0030-17
DATE:	2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH
STRUCTURAL
MAINLINE STRUCTURES PLAN AND PROFILE
STA 1555+50 TO STA 1567+00

DRAWING No.:	
S08-SEP107	
FACILITY ID:	
S08	
SHEET No.:	REV:



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CONSTRUCTION



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CONSTRUCTION

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for disclaimers regarding this drawing.*

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REFERENCE CONCEPT DRAWINGS						DESIGNED BY: B. ROGERS				</																			

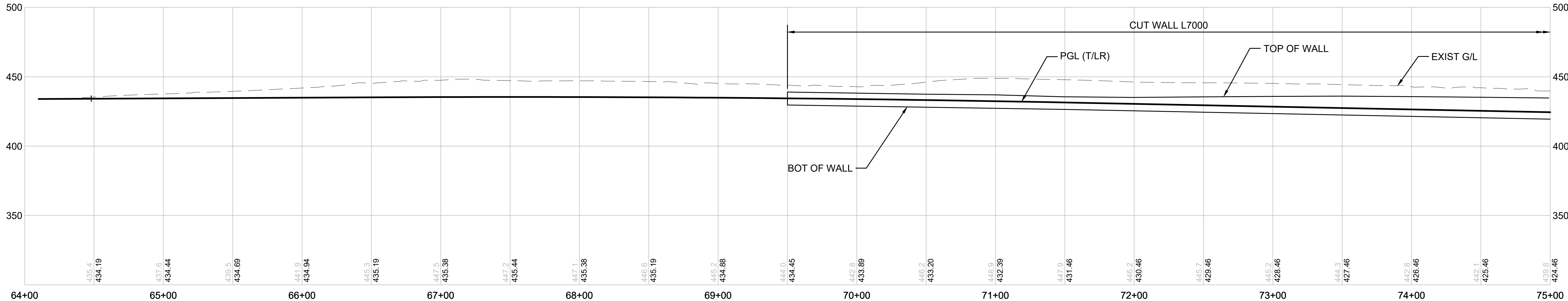
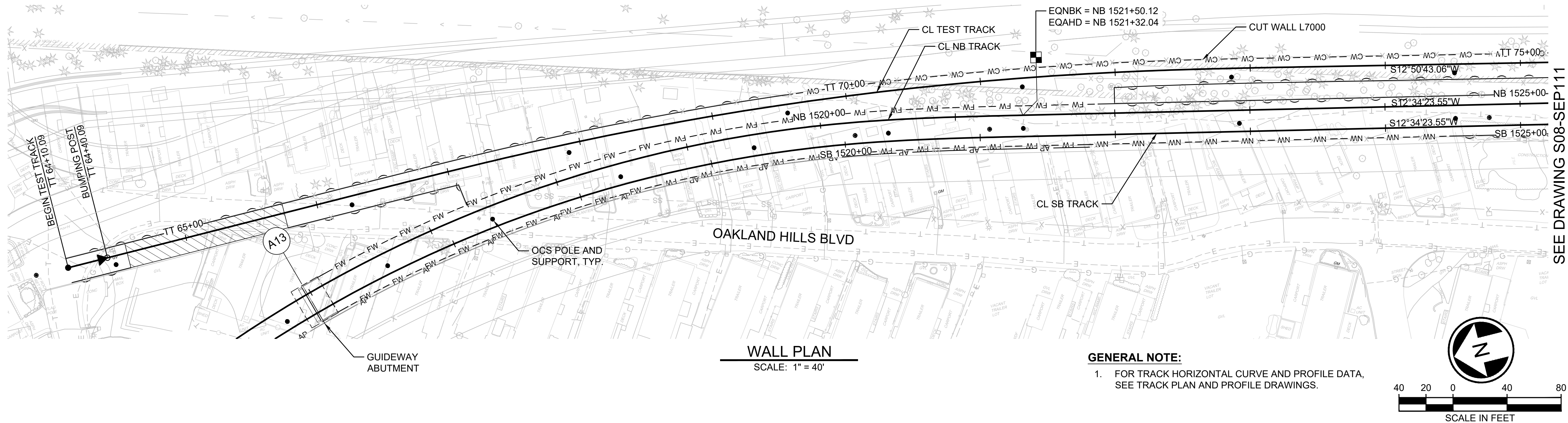
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REFERENCE CONCEPT DRAWINGS					
No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY:	B. ROGERS
DRAWN BY:	A. VALENCIA
CHECKED BY:	J. MERTH
APPROVED BY:	B. HARRIS

AHJ:			PACKAGE #		DRAWING No.: S08-SEP110		
PRELIMINARY BRILLIANT JAMES STATE OF WASHINGTON PROFESSIONAL ENGINEER NO. 10000000000000000000 HR SUBMITTED BY: PABLO LOPEZ-HILFIKER DATE: 2/27/2024 REVIEWED BY: DATE:			SCALE: 1"=40'	SOUND TRANSIT PRELIMINARY ENGINEERING PLANS OPERATIONS & MAINTENANCE FACILITY SOUTH STRUCTURAL TEST TRACK STRUCTURES PLAN AND PROFILE STA 69+50 TO STA 75+00			FACILITY ID: S08
			FILENAME: OMFS-S08-SEP110				SHEET No.: REV:
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			DATE: 2/27/2024				



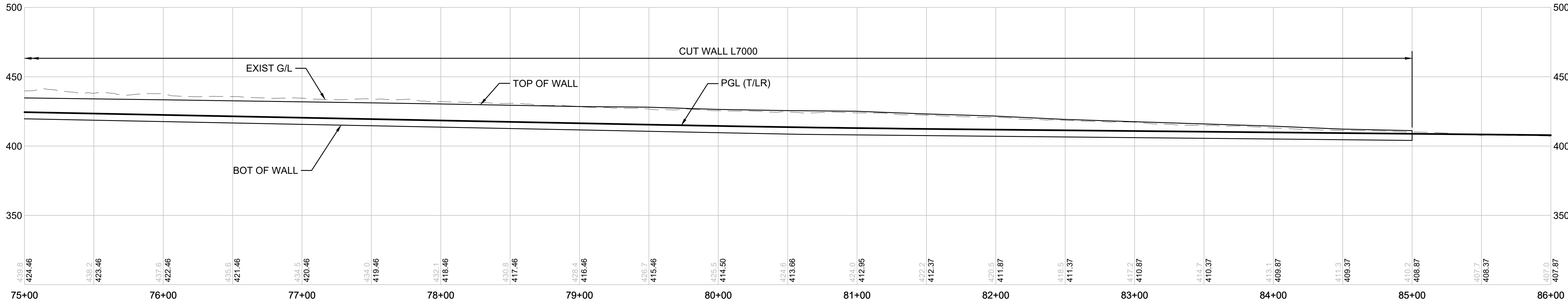
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CONSTRUCTION

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Refer to the plan set COVER drawing
for disclaimers regarding this drawing.

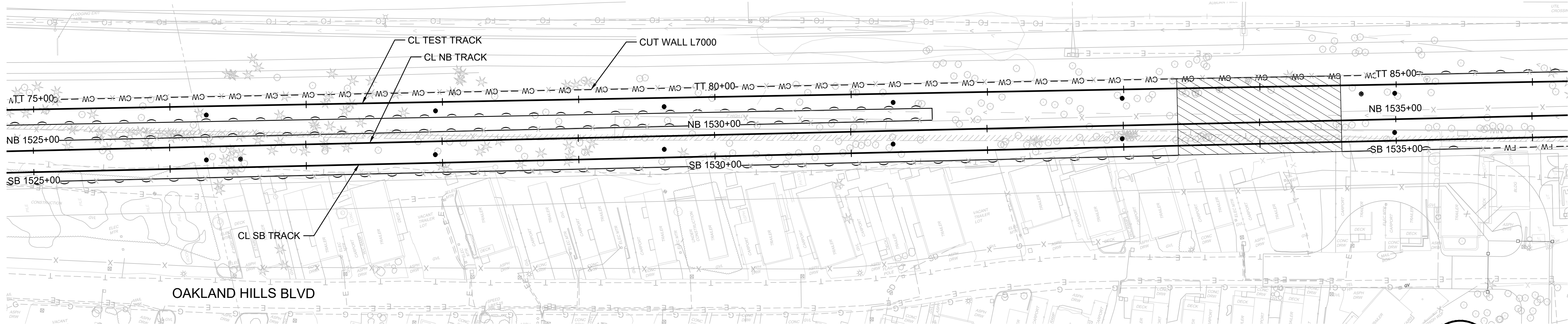
REFERENCE CONCEPT DRAWINGS <table><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td></td><td></td><td></td><td></td><td></td><td></td></tr><tr><td>No.</td><td>DATE</td><td>DSN</td><td>CHK</td><td>APP</td><td>REVISION</td></tr></table>																														No.	DATE	DSN	CHK	APP	REVISION	DESIGNED BY: B. ROGERS		AHJ: PRELIMINARY   SUBMITTED BY: PABLO LOPEZ-HILFIKER DATE: 2/27/2024 REVIEWED BY: DATE:		PACKAGE # SCALE: FILENAME: OMFS-S08-SEP110 CONTRACT No.: AE-0030-17 DATE: 2/27/2024 LINE IS 1"=1' FULL SCALE  SOUND TRANSIT PRELIMINARY ENGINEERING PLANS OPERATIONS & MAINTENANCE FACILITY SOUTH STRUCTURAL TEST TRACK STRUCTURES PLAN AND PROFILE STA 75+00 TO STA 85+00 DRAWING No.: S08-SEP111 FACILITY ID: S08 SHEET No.: REV:	
No.	DATE	DSN	CHK	APP	REVISION																																				
DRAWN BY: A. VALENCIA																																									
CHECKED BY: J. MERTH																																									
APPROVED BY:																																									
B. HARRIS																																									

SEE DRAWING S08-SEP110



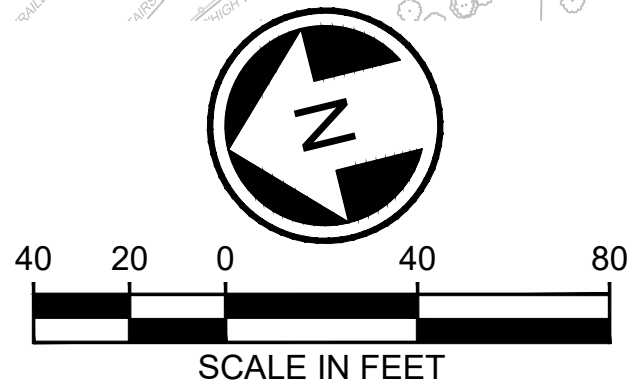
CUT WALL L7000 DEVELOPED ELEVATION - LT OF TT CL
SCALE: 1" = 40'

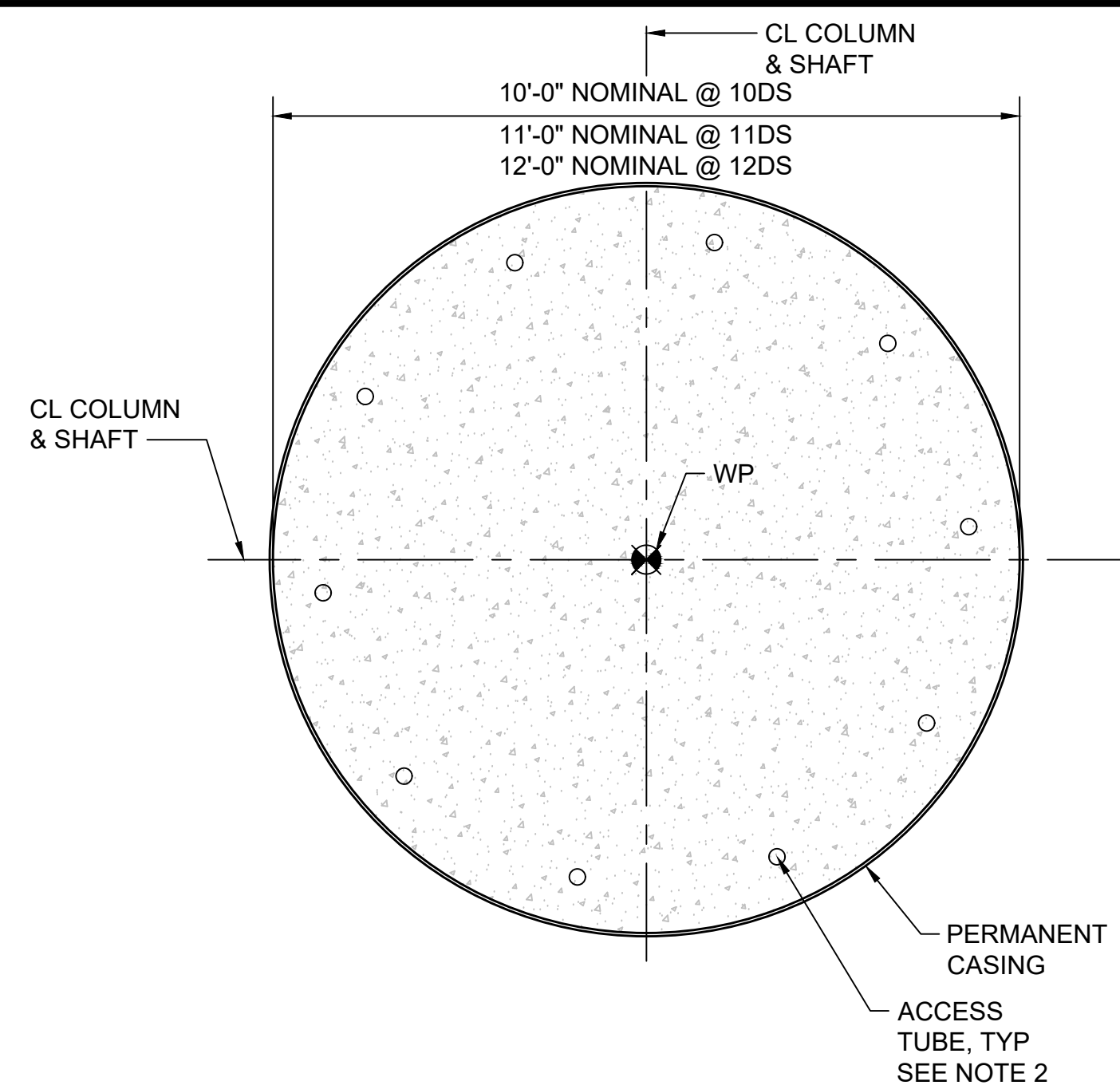
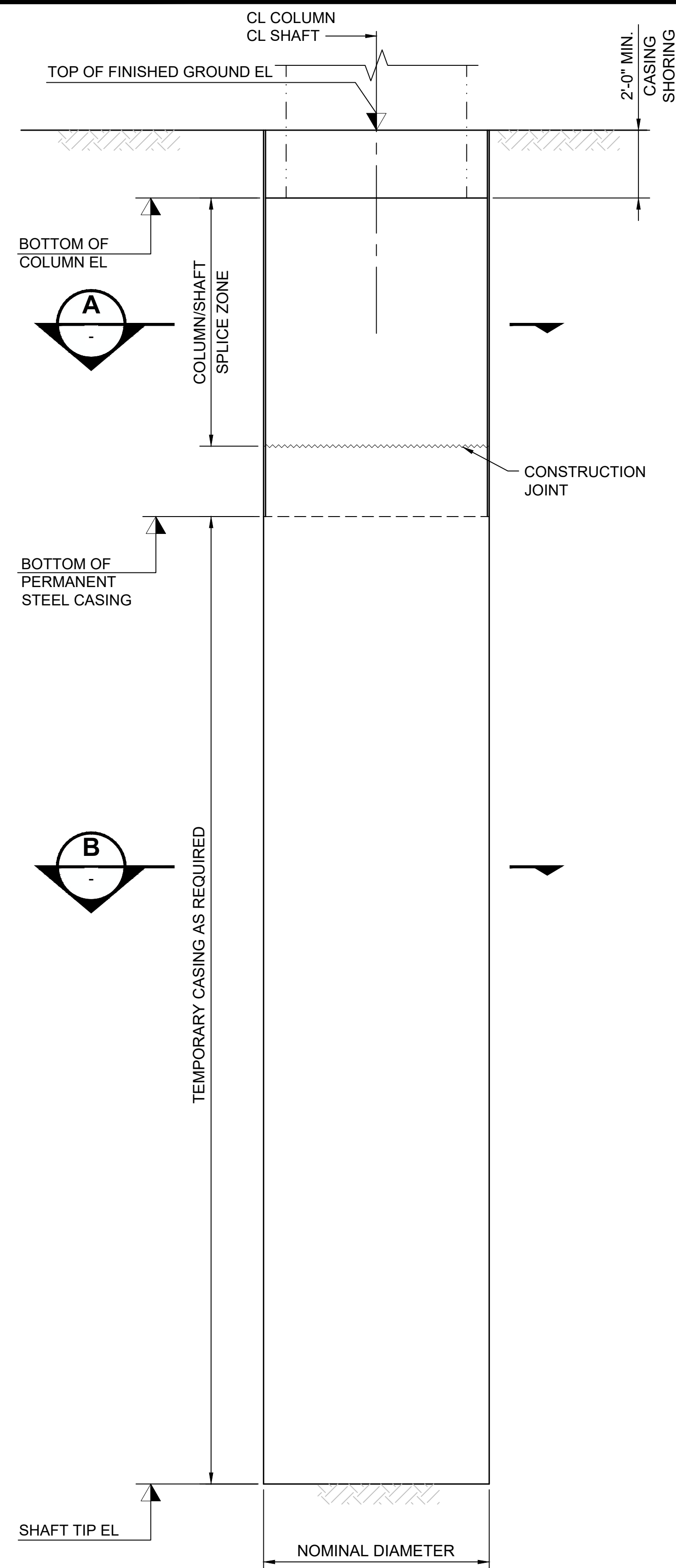
SEE DRAWING S08-SEP110



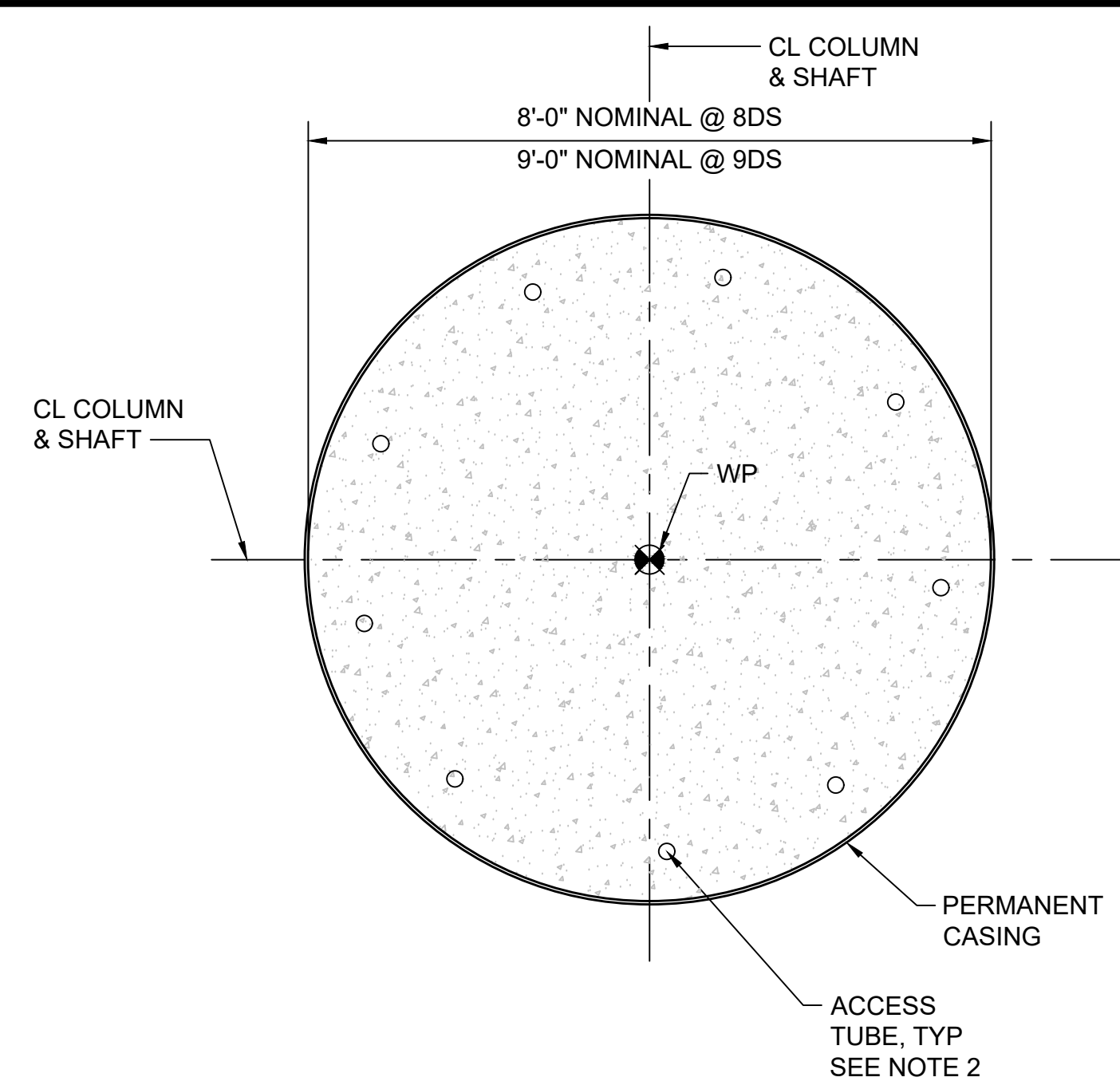
WALL PLAN
SCALE: 1" = 40'

GENERAL NOTE:
1. FOR TRACK HORIZONTAL CURVE AND PROFILE DATA,
SEE TRACK PLAN AND PROFILE DRAWINGS.





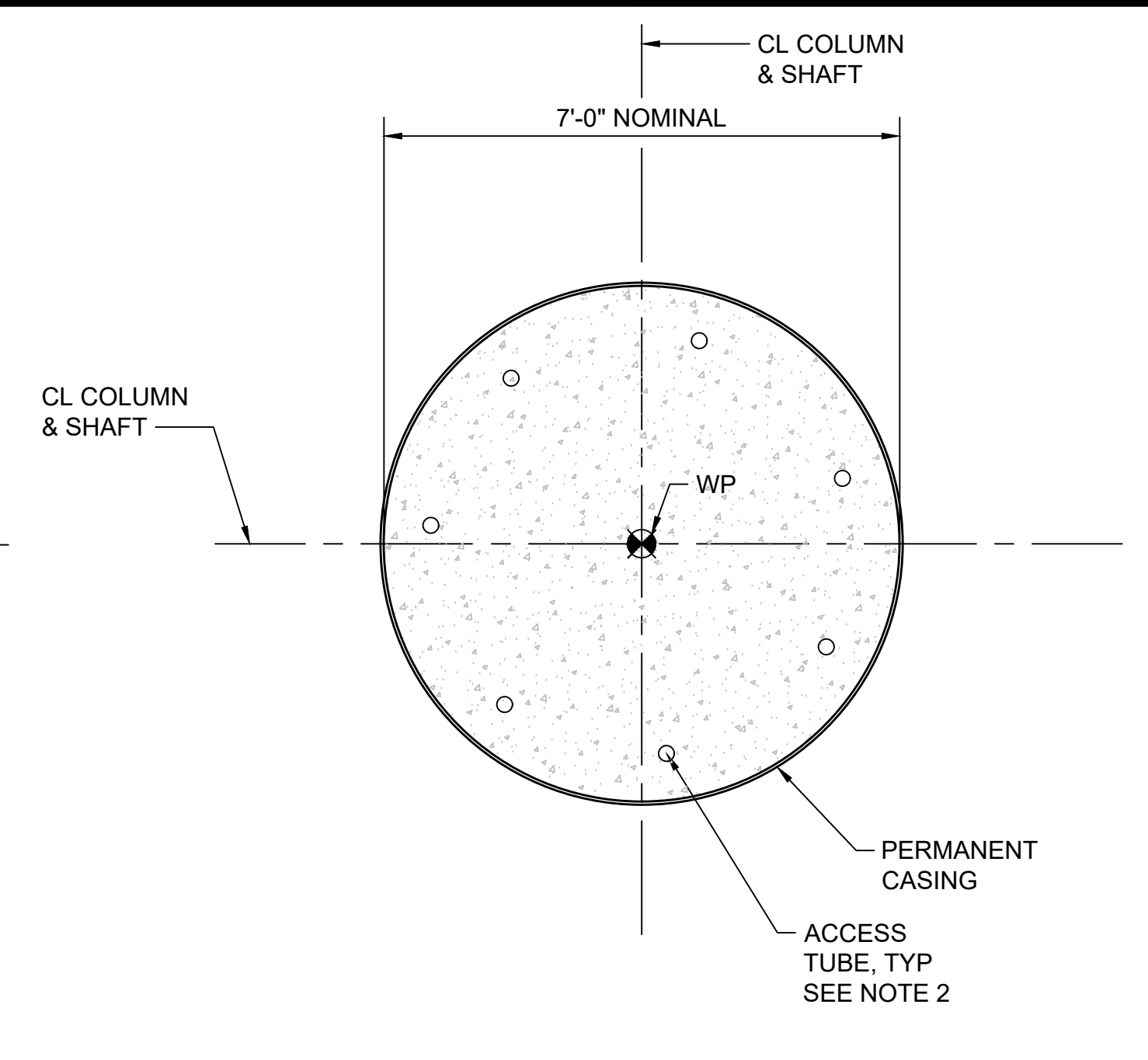
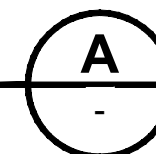
TYPE 12DS/11DS/10DS



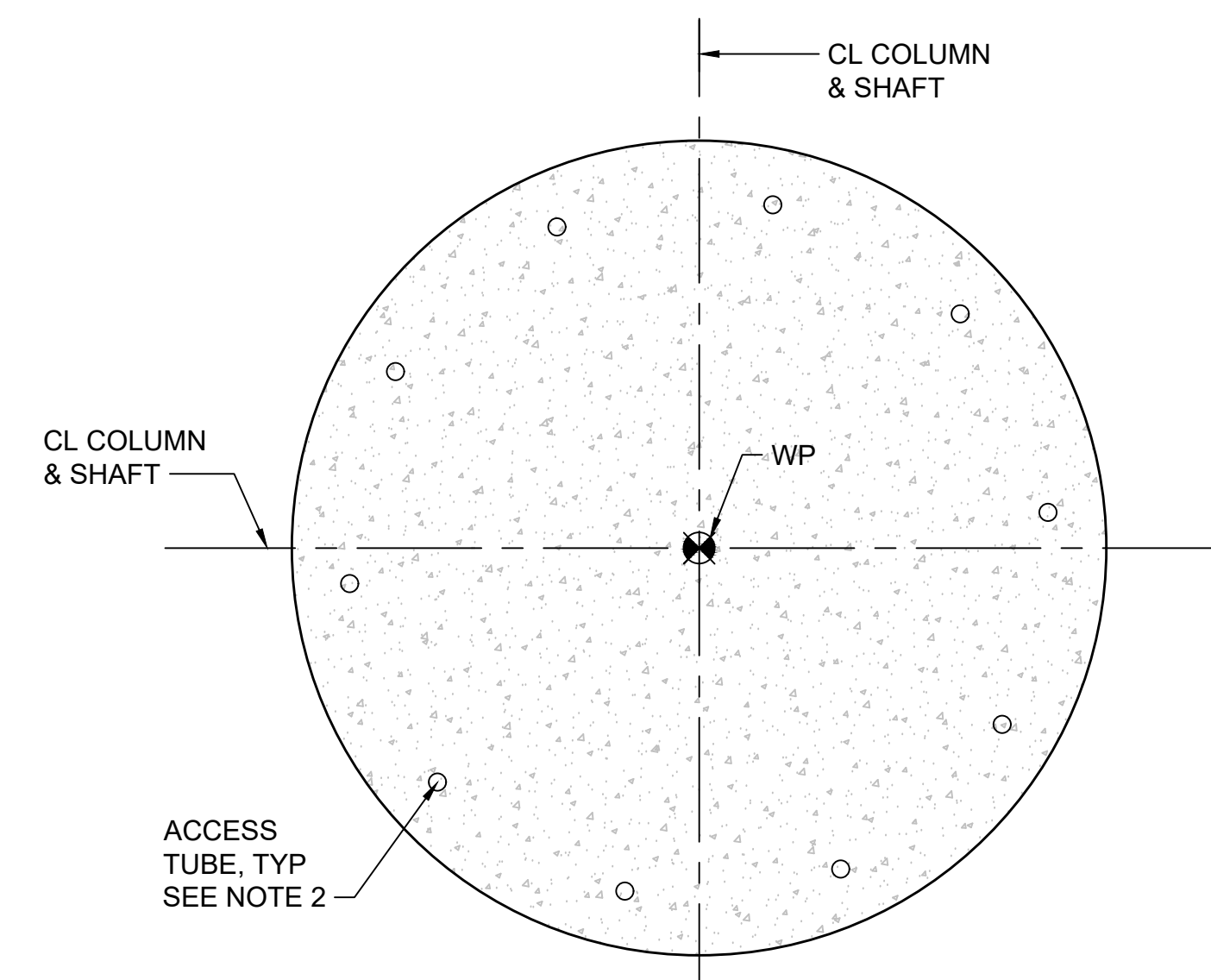
TYPE 8DS/9DS

SECTION

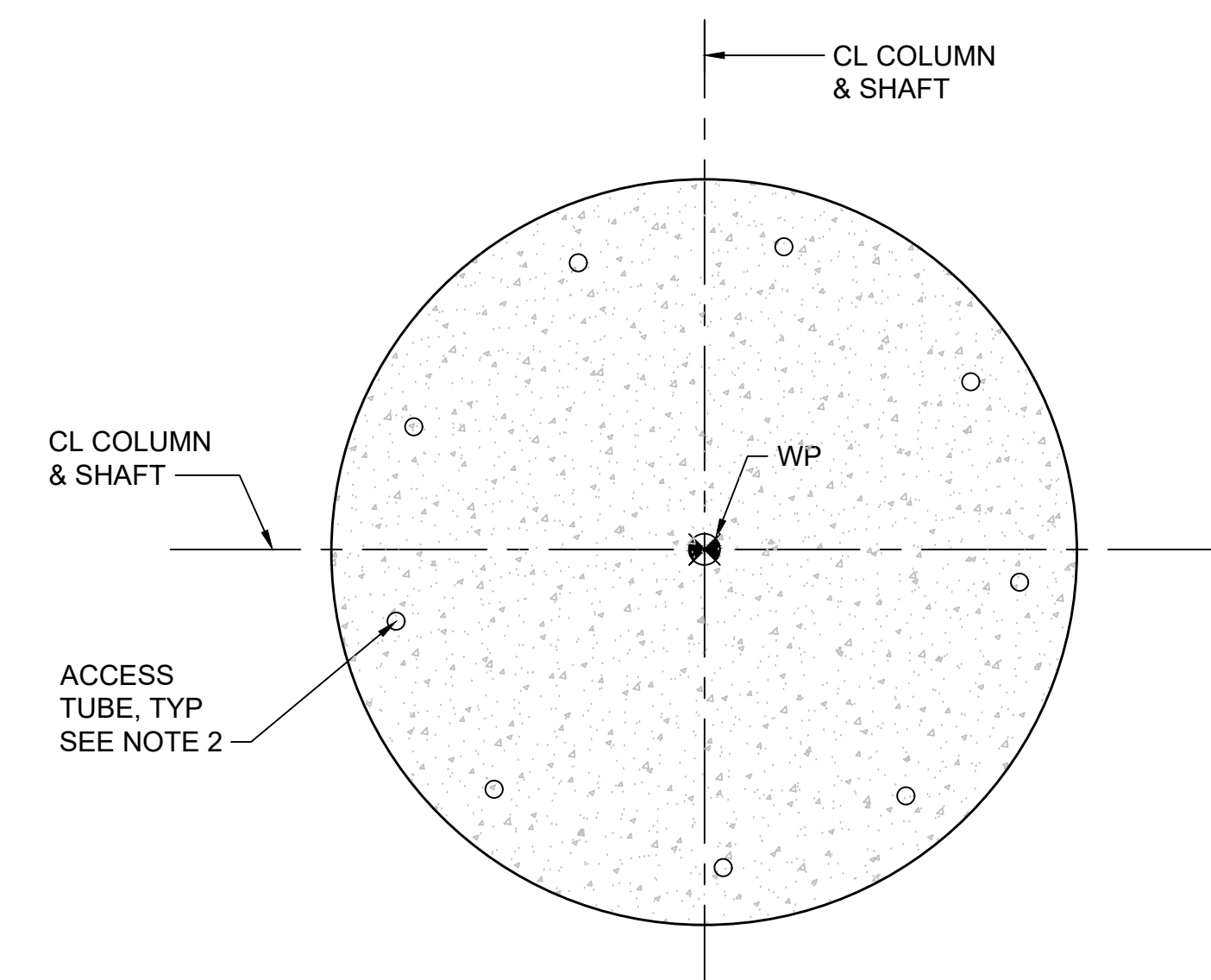
SCALE: 1/2" = 1'-0"



TYPE 7DS



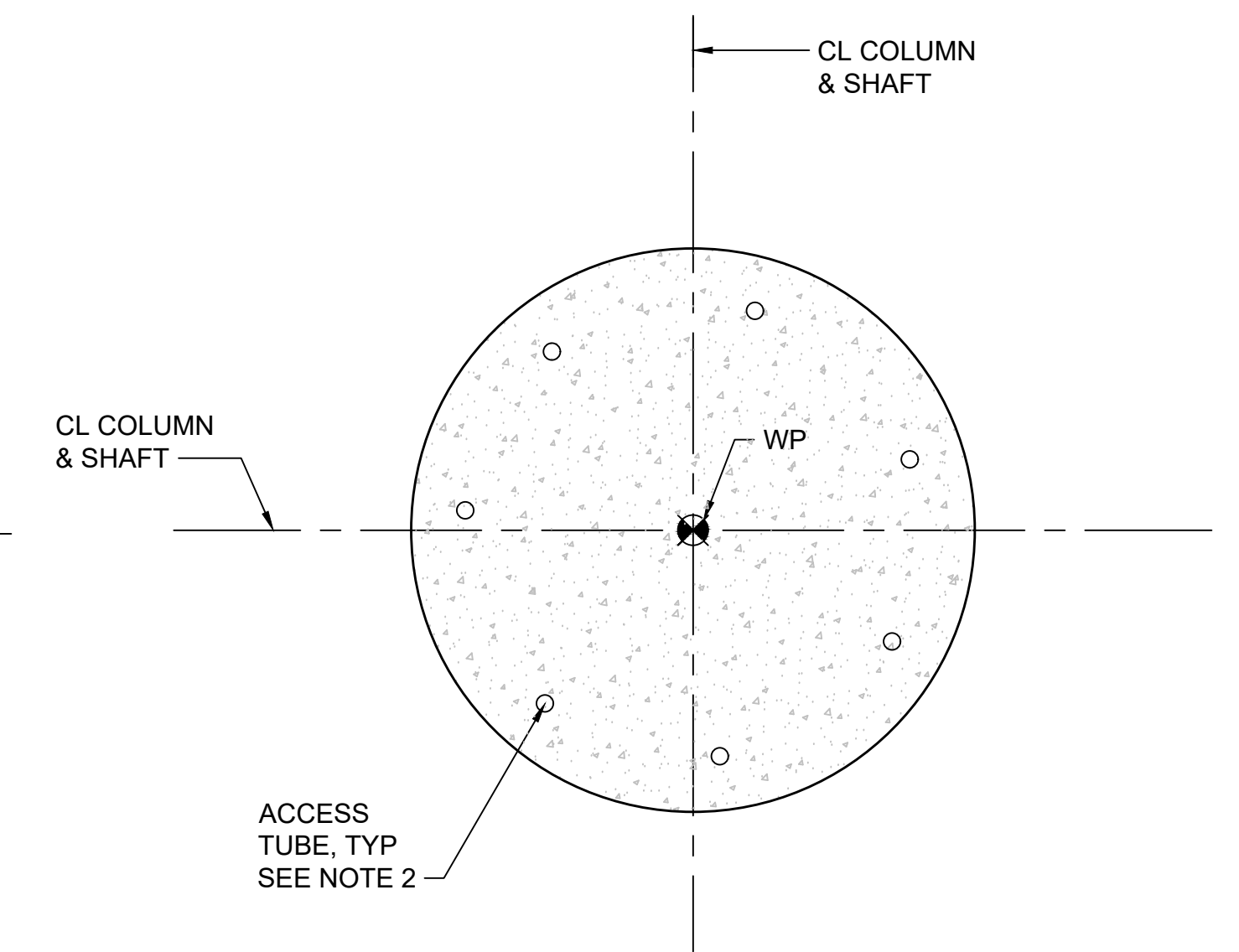
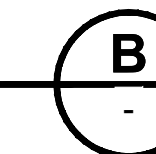
TYPE 12DS/11DS/10DS



TYPE 8DS/9DS

SECTION

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



TYPE 7DS

- NOTES:**

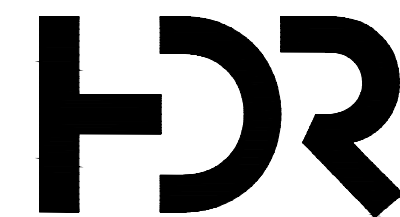
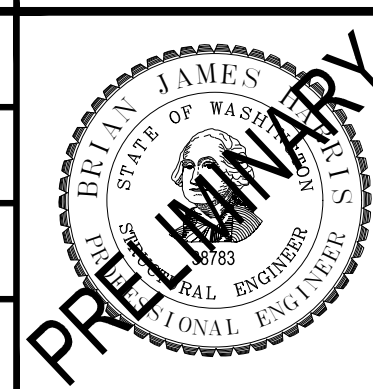
1. STANDARD SHAFT CONSTRUCTION METHOD SHOWN. SHAFTS CONSTRUCTED WITH THE OSCILLATOR METHOD WOULD USE A PERMANENT SLIP CASING WITH BACKFILLED VOID AS NEEDED.
2. SEE CONTRACT SPECIFICATIONS FOR NUMBER, ORIENTATION, AND ASSEMBLY OF ACCESS TUBES.

NOT FOR
CONSTRUCTION

REFERENCE CONCEPT DRAWINGS

No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY:	B. ROGERS
DRAWN BY:	A. VALENCIA
CHECKED BY:	J. MERTH
APPROVED BY:	B. HARRIS

SUBMITTED BY:
PABLO LOPEZ-HILFIKER

DATE:
2/27/2024

REVIEWED BY:

LINE IS 1" AT



DATE:

PACKAGE #	
-----------	--

SCALE:

FILENAME:
OMFS-STD-SVD001

CONTRACT No.
AE-0030-17

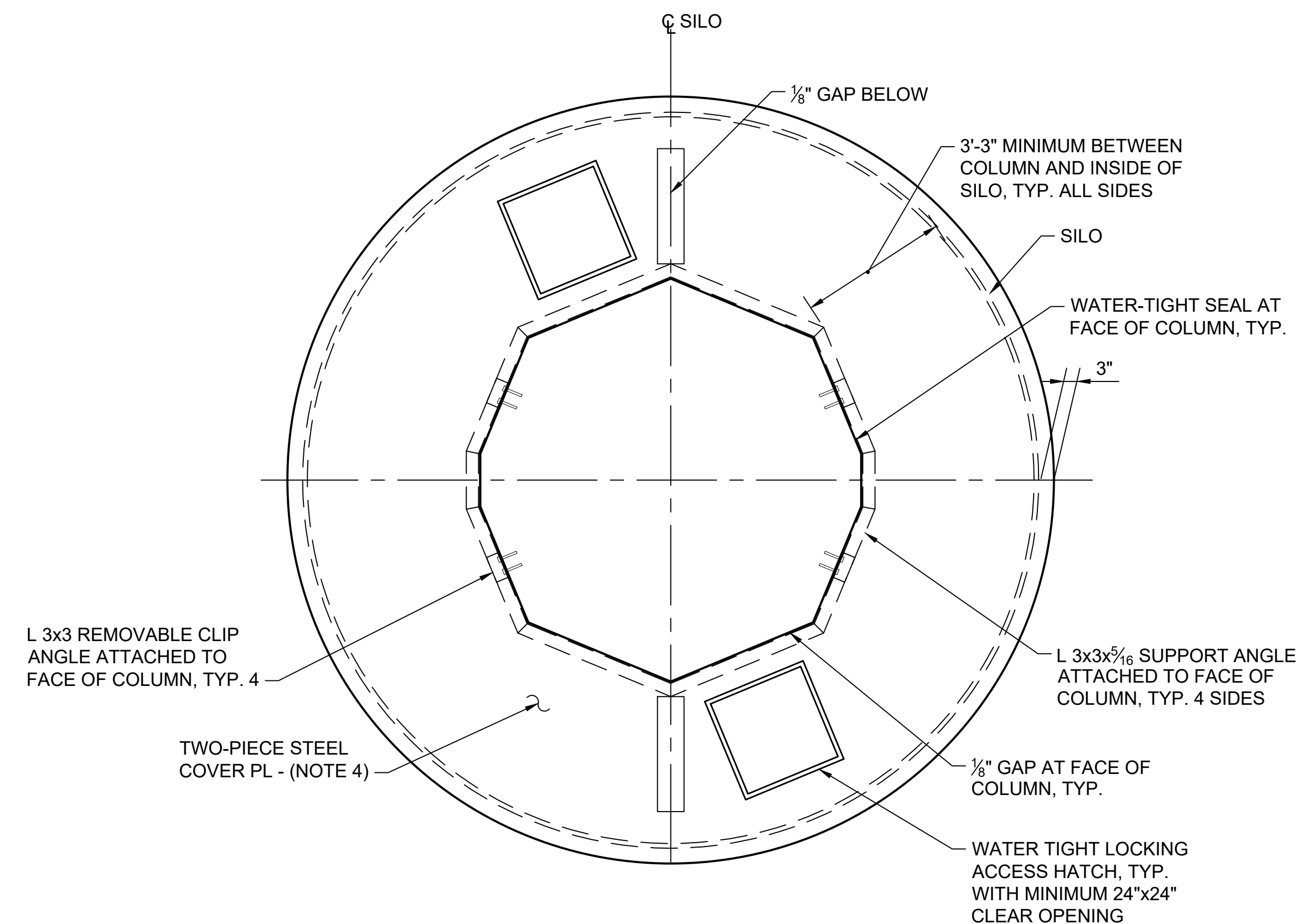
DATE:
2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH
STRUCTURAL
AERIAL GUIDEWAY - SUBSTRUCTURE
DRILLED SHAFT DETAILS

DRAWING No.:
STD-SVD001

FACILITY ID:
S08

SHEET No.: REV:



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

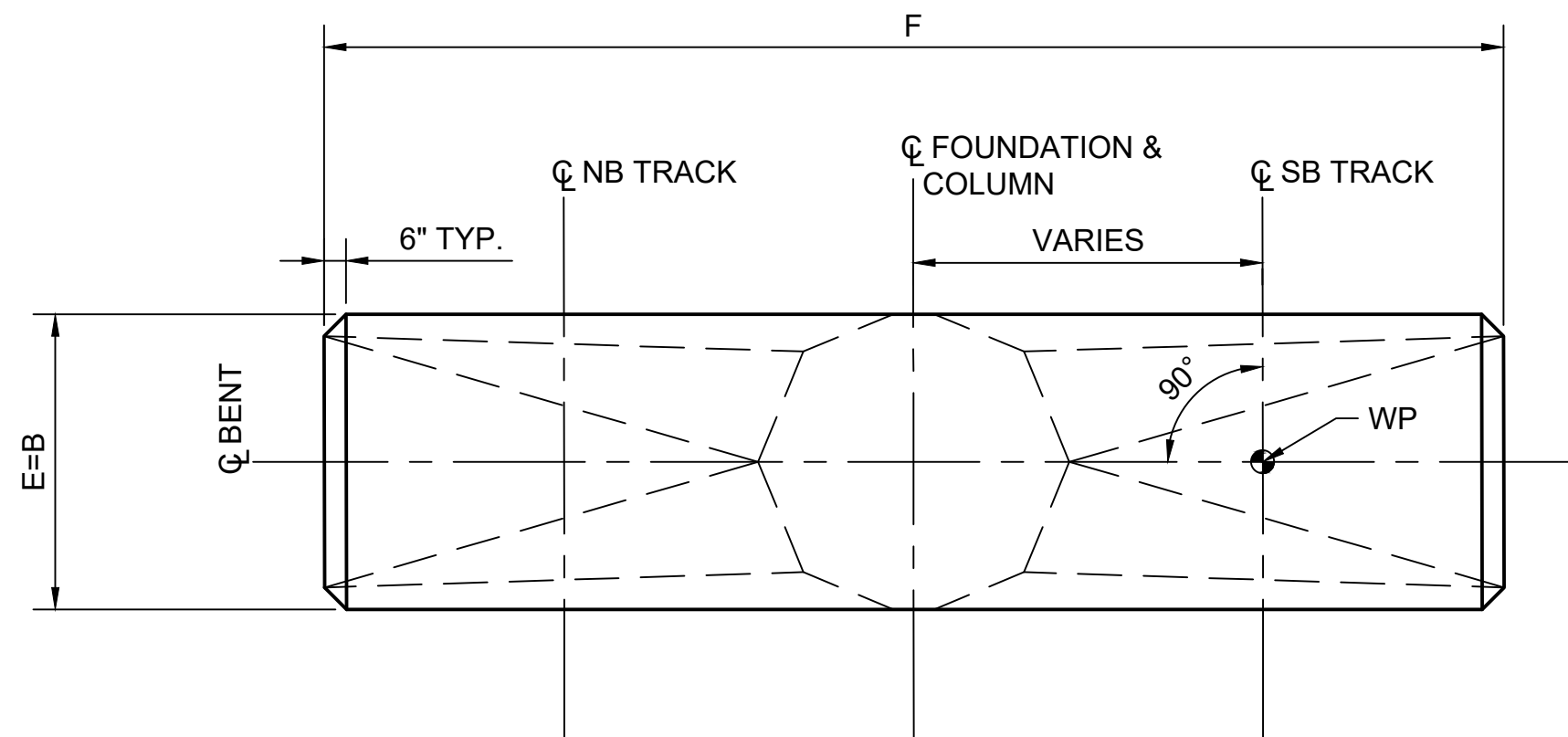
NOT FOR
CONSTRUCTION

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

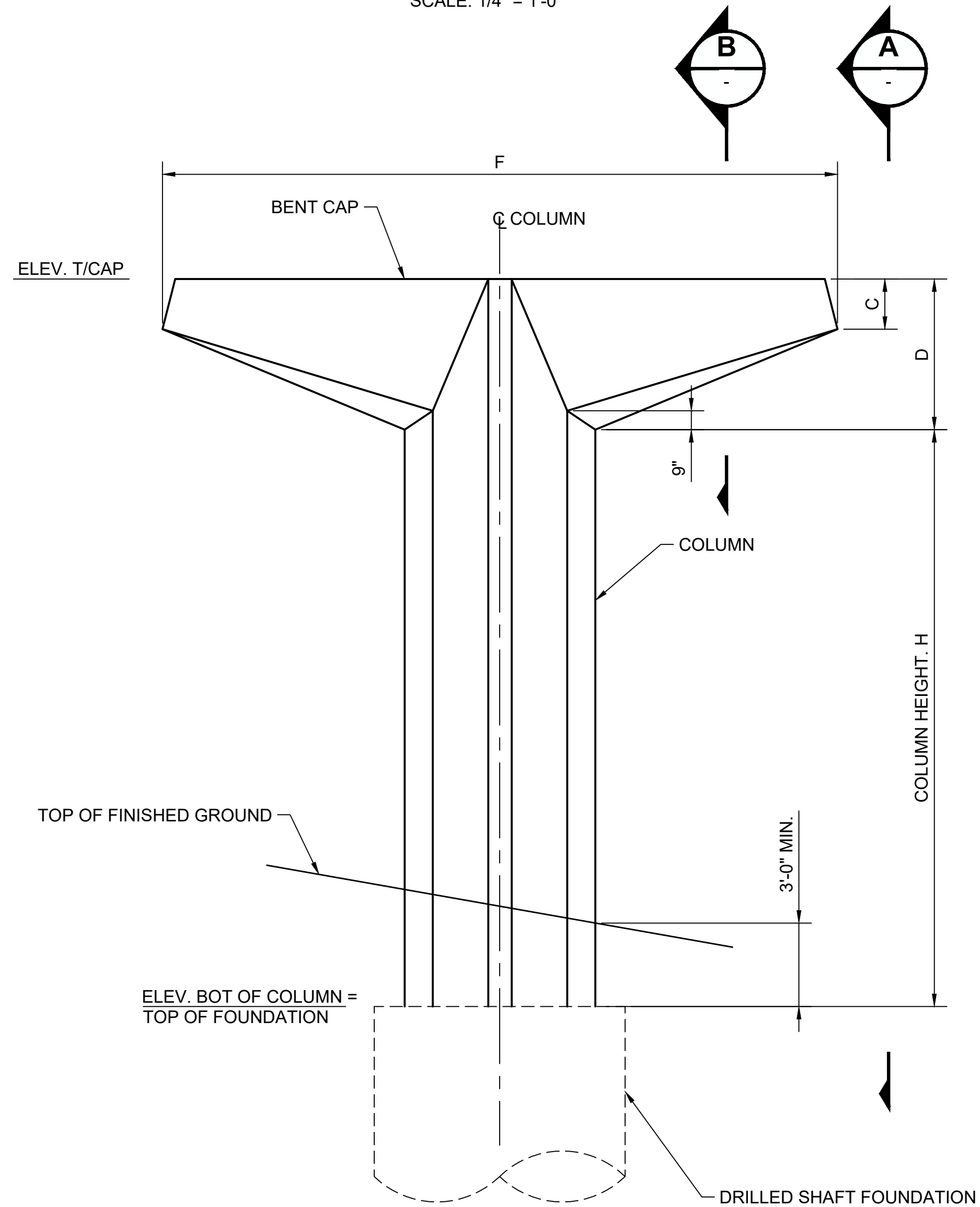
AHJ:

PACKAGE #	
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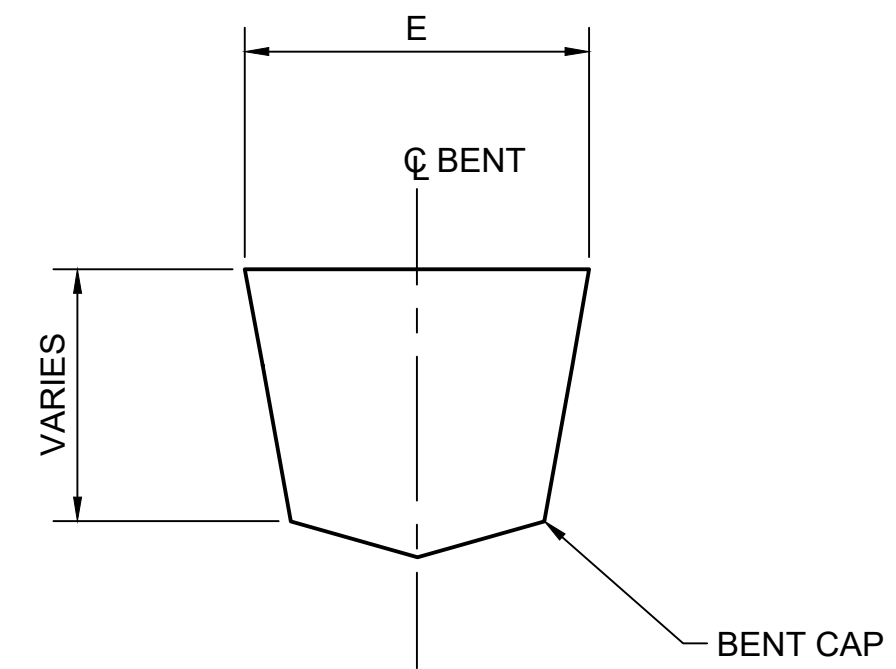
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STD-SVD003	
FACILITY ID:	
S08	
SHEET No.:	REV:



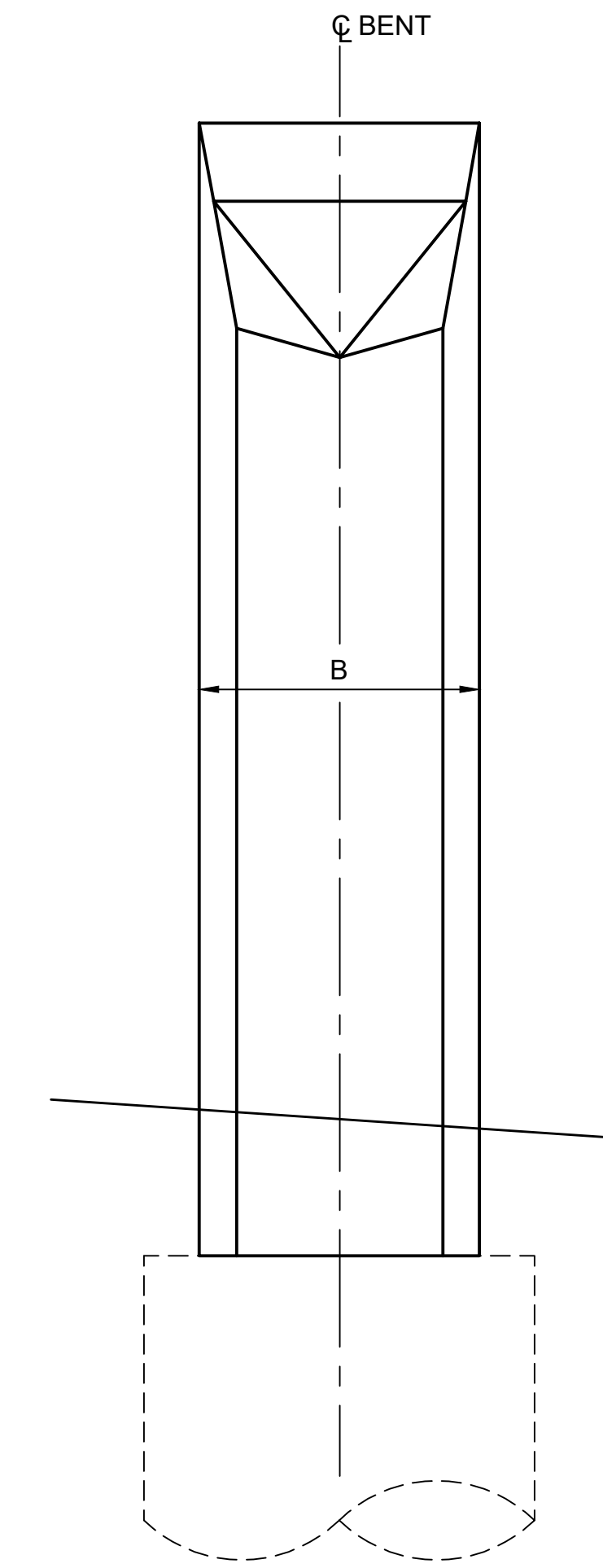
BENT PLAN
SCALE: 1/4" = 1'-0"



BENT ELEVATION 1
SCALE: 1/4" = 1'-0"



SECTION B
 SCALE: 1/4" = 1'-0"



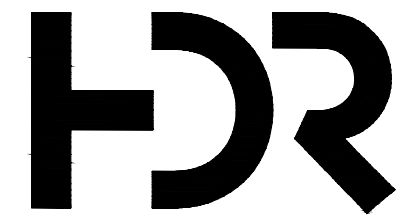
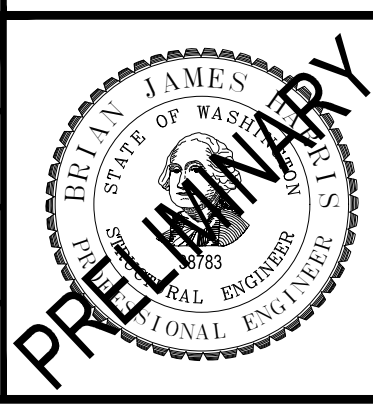
BENT SIDE ELEVATION **A**
SCALE: 1/4" = 1'-0"

BENT TABLE			
C	D	E	F
2'-0"	6'-0'	7'-2"	28'-0"

*Refer to the plan set COVER drawing
for disclaimers regarding this drawing.*

REFERENCE CONCEPT DRAWINGS					
No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY:	B. ROGERS
DRAWN BY:	A. VALENCIA
CHECKED BY:	J. MERTH
APPROVED BY:	B. HARRIS

SUBMITTED BY:
PABLO LOPEZ-HILFIKER

DATE:	2/27/2024
-------	-----------

REVIEWED BY:	
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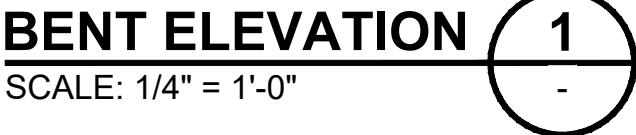
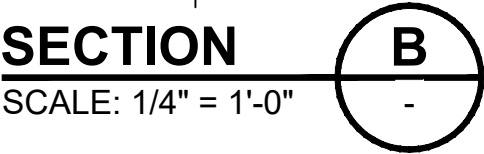
DATE:	
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SCALE:	
FILENAME:	OMFS-STD-SBD00
CONTRACT No.:	AE-0030-17
DATE:	2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH
STRUCTURAL
AERIAL GUIDEWAY - SUBSTRUCTURE
TYPICAL SINGLE COLUMN BENT AT DOUBLE TRACK

DRAWING No.:	
STD-SBD002	
FACILITY ID:	
S08	
SHEET No.:	REV:

NOT FOR
CONSTRUCTION



BENT TABLE					
BENT ID	B	C	D	F	G
B6, B7	6'-4"	9'-3"	12'-10"	26'-0"	47'-1"
B10	6'-4"	12'-1 3/4"	12'-10"	30'-6"	54'-9"
B12	6'-4"	10'-8"	12'-10"	33'-0"	54'-3"
B19	7'-2"	6'-8"	14'-1"	45'-6"	57'-8"

NOTE: GIRDER AND TRACK
LAYOUT AND SPACING VARIES

NOT FOR
CONSTRUCTION

02/25/24 | 11:06 PM | VALENALV
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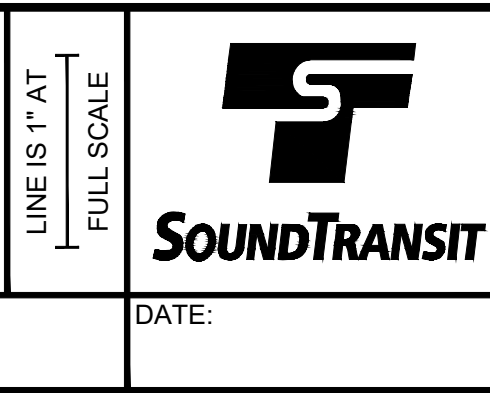
*Refer to the plan set COVER drawing
for disclaimers regarding this drawing.*

REFERENCE CONCEPT DRAWINGS					
No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY:
B. ROGERS
DRAWN BY:
A. VALENCIA
CHECKED BY:
J. MERTH
APPROVED BY:
B. HARRIS



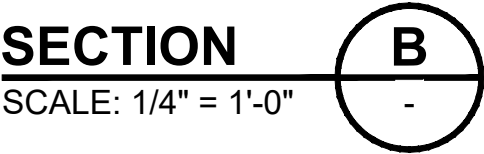
SUBMITTED BY:	DATE:	REVIEWED BY:
PABLO LOPEZ-HILFIKER	2/27/2024	



SCALE:	
FILENAME:	OMFS-STD-SBD004
CONTRACT No.:	AE-0030-17
DATE:	2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH
STRUCTURAL
AERIAL GUIDEWAY - SUBSTRUCTURE
INTEGRAL TWO-COLUMN BENT

DRAWING No.:	
STD-SBD004	
FACILITY ID:	
S08	
SHEET No.:	REV:



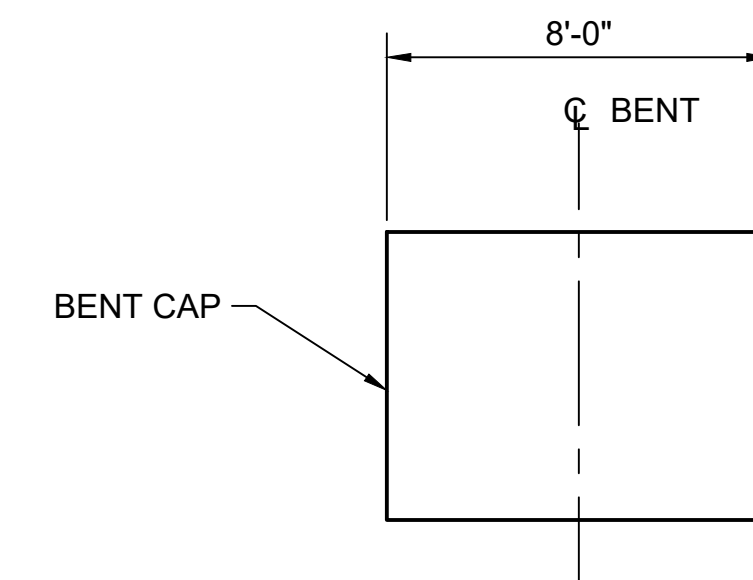
BENT TABLE					
BENT ID	B	C	D	F	G
B4	7'-2"	11'-1"	9'-0"	35'-0"	57'-0"
B8	6'-4"	11'-6"	8'-0"	26'-6"	49'-0"
B11	6'-4"	11'-10"	8'-0"	26'-0"	47'-0"
B18	6'-4"	9'-0"	9'-0"	36'-0"	57'-0"

NOTE: GIRDER AND TRACK
LAYOUT SPACING VARIES

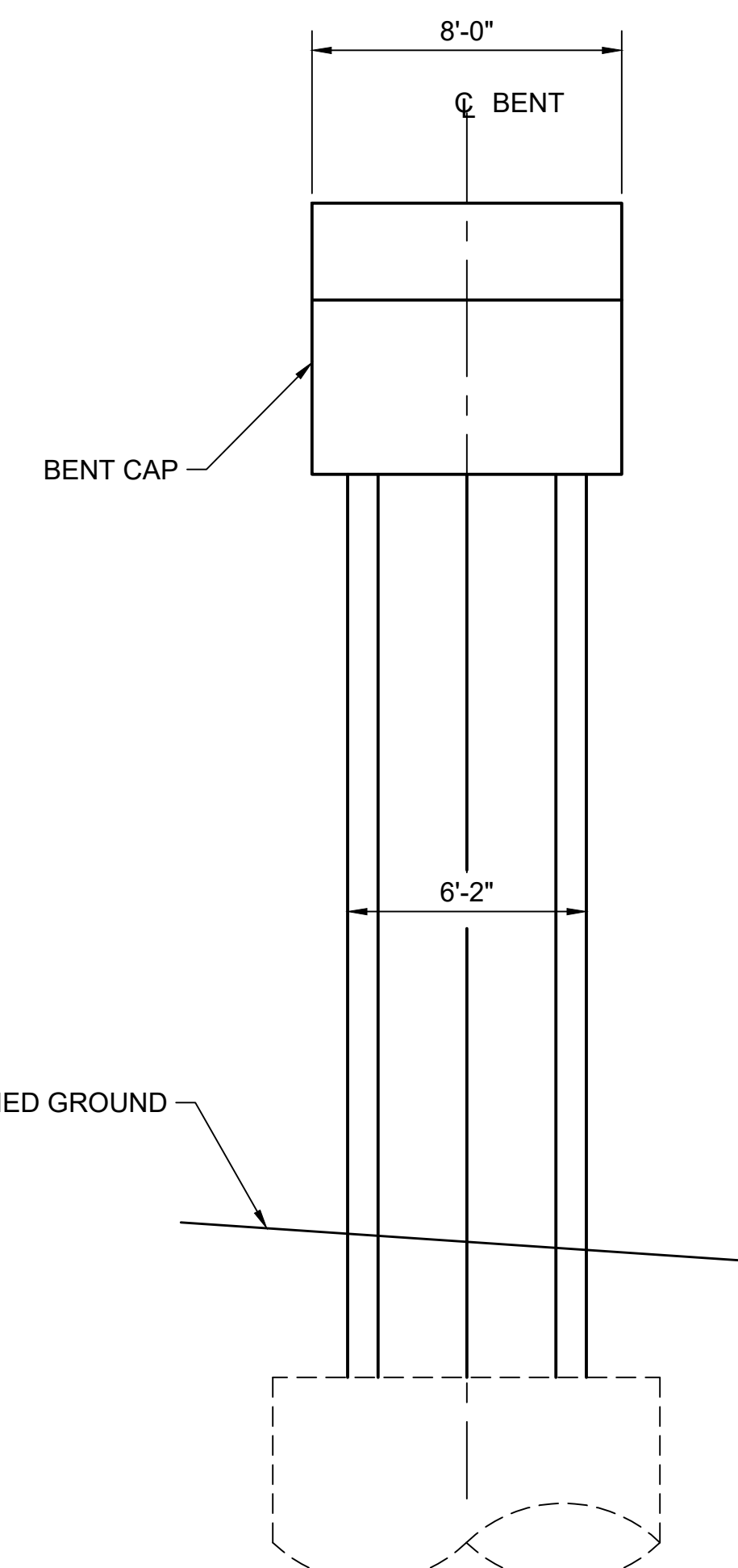
NOT FOR
CONSTRUCTION

*Refer to the plan set COVER drawing
for disclaimers regarding this drawing.*

REFERENCE CONCEPT DRAWINGS										DESIGNED BY: B. ROGERS		AHJ:										PACKAGE #																																							
										DRAWN BY: A. VALENCIA																																SOUND TRANSIT PRELIMINARY ENGINEERING PLANS OPERATIONS & MAINTENANCE FACILITY SOUTH STRUCTURAL AERIAL GUIDEWAY - SUBSTRUCTURE UNDERSLUNG TWO-COLUMN BENT										DRAWING No.: STD-SBD005									
										CHECKED BY: J. MERTH												LINE IS 1"=1' FULL SCALE										SCALE:																				FACILITY ID: S08									
										APPROVED BY: B. HARRIS																						FILENAME: OMFS-STD-SBD005																				SHEET No.: REV:									
																																CONTRACT No.: AE-0030-17																													
No. DATE DSN CHK APP REVISION												SUBMITTED BY: PABLO LOPEZ-HILFIKER										DATE: 2/27/2024										REVIEWED BY:										DATE: 2/27/2024																			



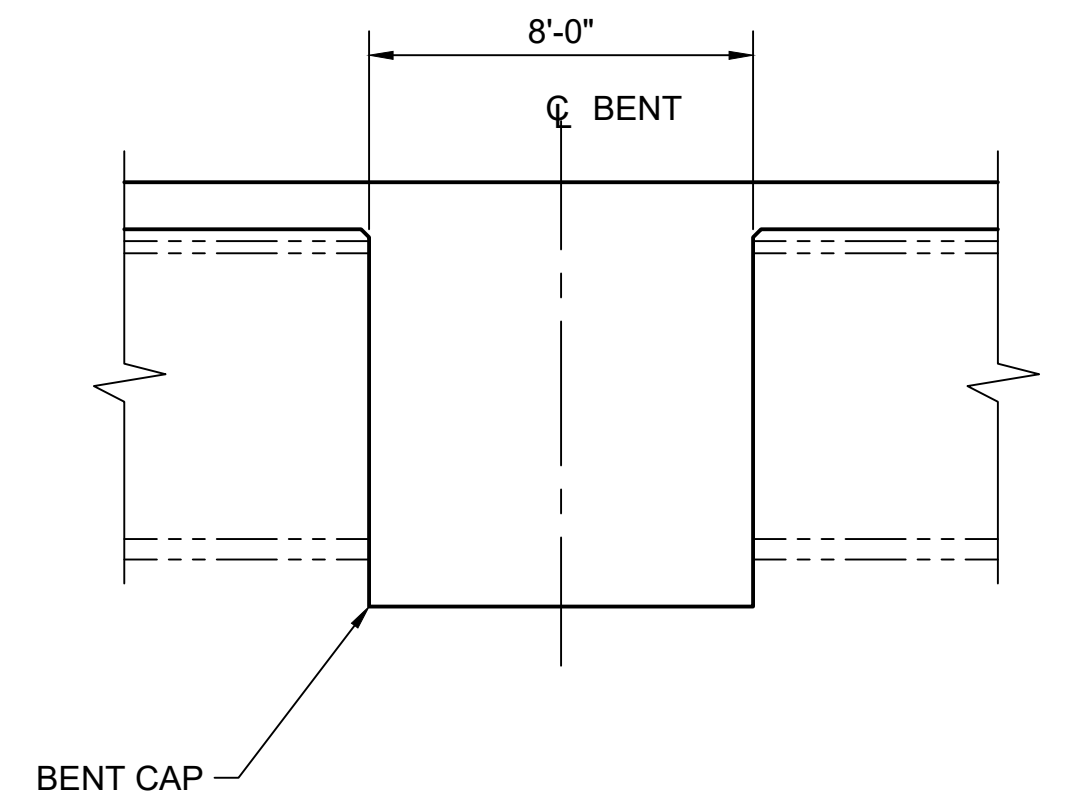
SECTION **B**
SCALE: 1/4" = 1'-0"



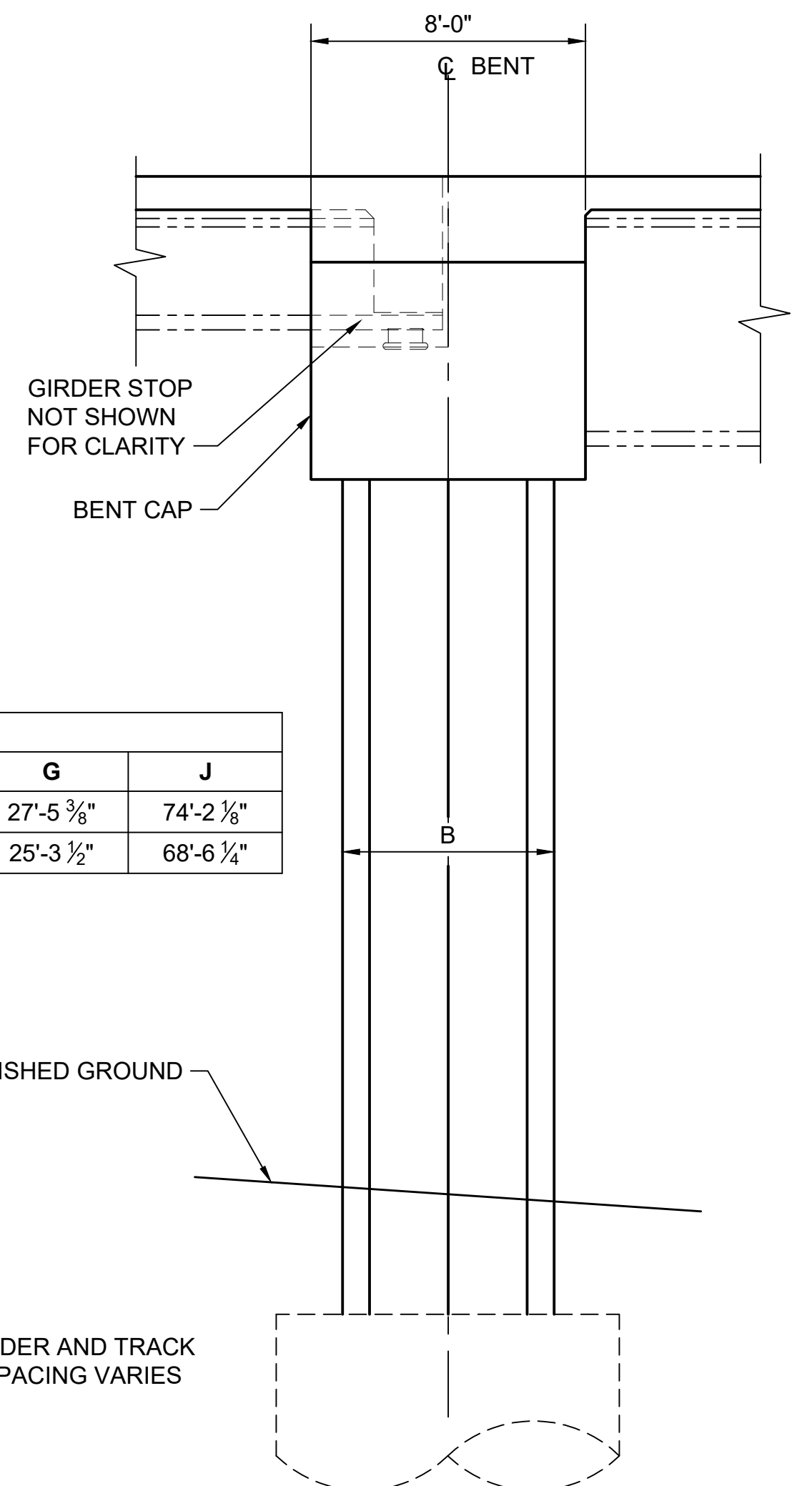
BENT SIDE ELEVATION **A**
SCALE: 1/4" = 1'-0"

*Refer to the plan set COVER drawing
for disclaimers regarding this drawing.*

02/25/24 | 11:08 PM | VALENALV
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SECTION **B**
SCALE: 1/4" = 1'-0"



BENT SIDE ELEVATION **A**
SCALE: 1/4" = 1'-0"

AHJ:

REFERENCE CONCEPT DRAWINGS					
No.	DATE	DSN	CHK	APP	REVISION

SUBMITTED BY:
PABLO LOPEZ-HILFIKER

REVIEWED BY:

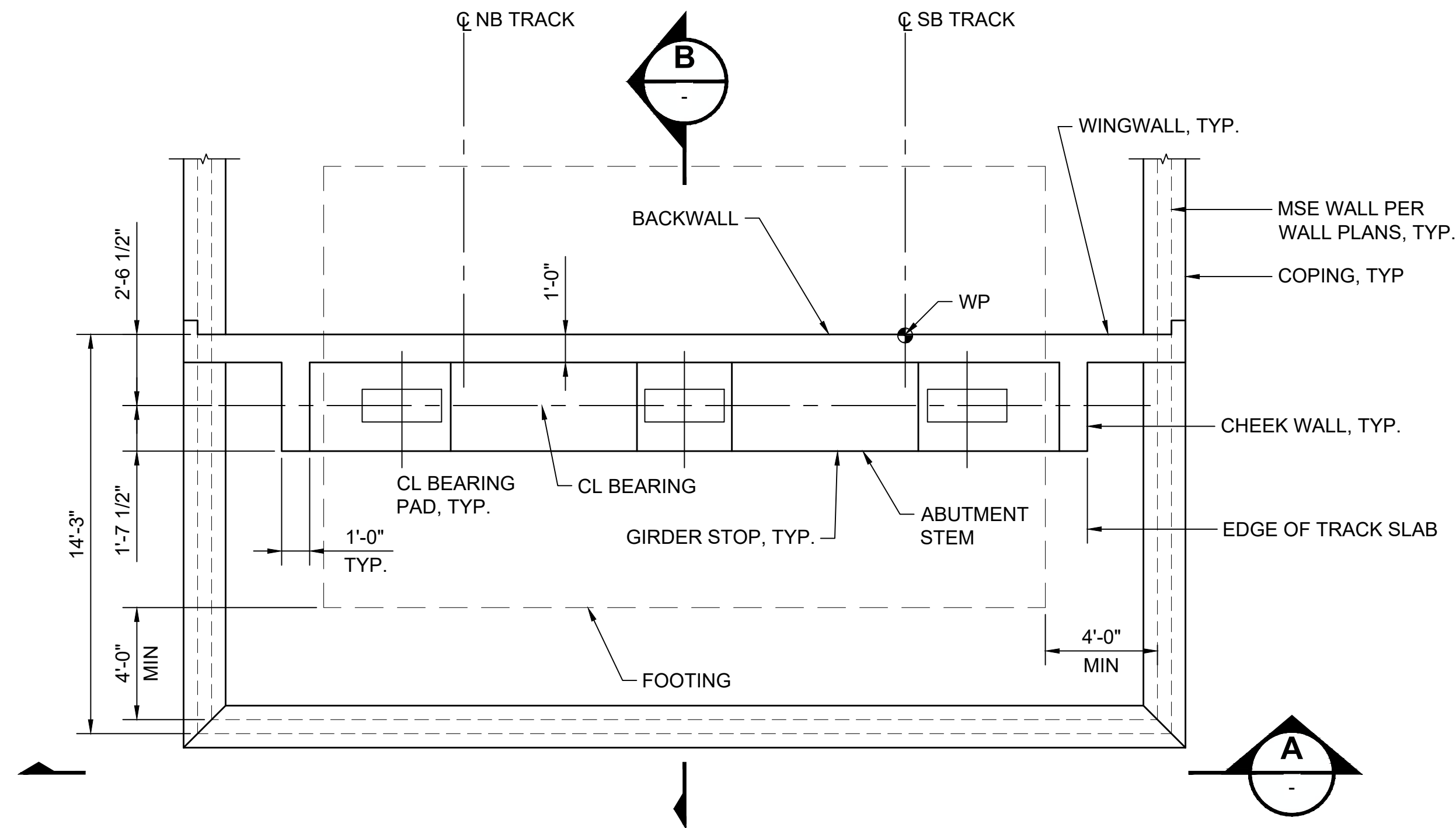


PACKAGE #

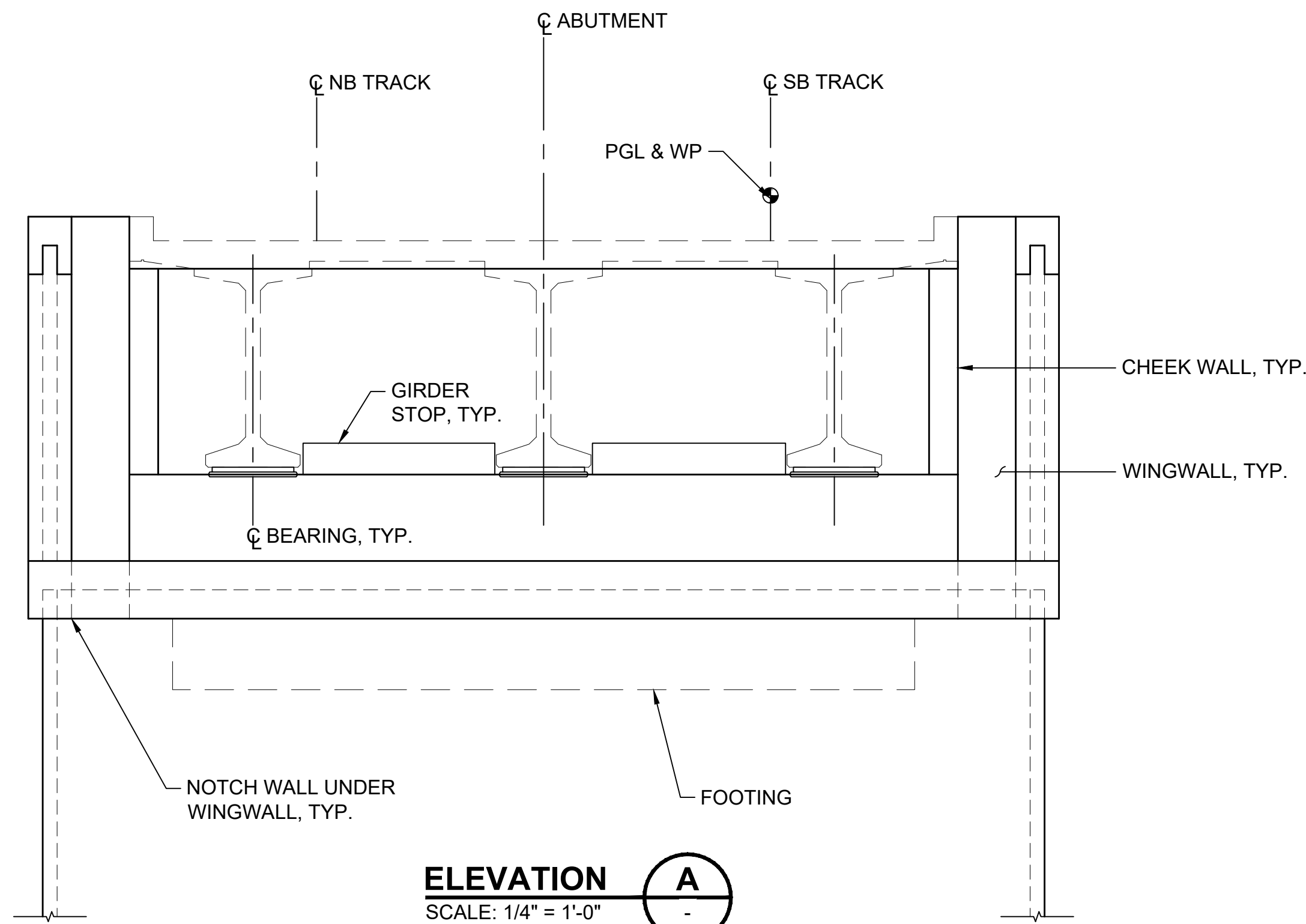
SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH

STRUCTURAL
AERIAL GUIDEWAY - SUBSTRUCTURE
INTEGRAL THREE-COLUMN BENT WITH LEAD TRACK

DRAWING No.:	
STD-SBD007	
FACILITY ID:	
S08	
SHEET No.:	REV:

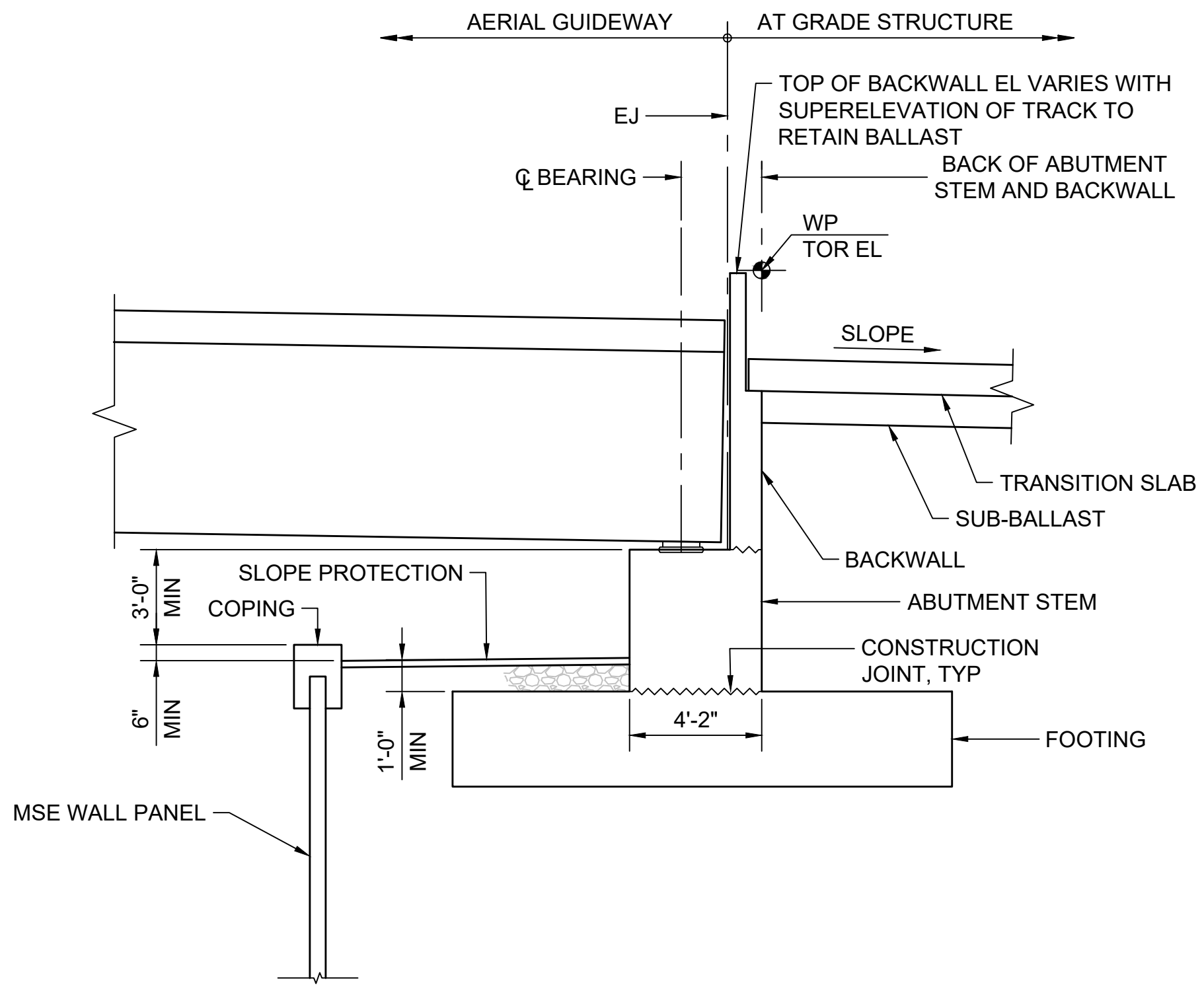


PLAN - ABUTMENT
SCALE: 1/4" = 1'-0"



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

(LOOKING UPSTATION)



SECTION
SCALE: 1/4" = 1'-0"

NOT FOR
CONSTRUCTION

Refer to the plan set COVER drawing
for disclaimers regarding this drawing.

REFERENCE CONCEPT DRAWINGS						
No.	DATE	DSN	CHK	APP	REVISION	

DESIGNED BY:	B. ROGERS
DRAWN BY:	A. VALENCIA
CHECKED BY:	J. MERTH
APPROVED BY:	B. HARRIS

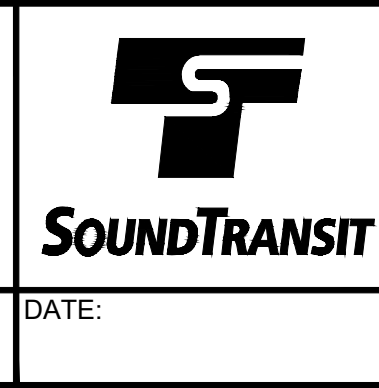


SUBMITTED BY:
PABLO LOPEZ-HILFIKER

DATE:
2/27/2024

REVIEWED BY:

LINE IS 1" AT
FULL SCALE

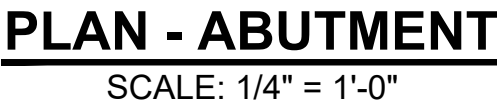


DATE:

PACKAGE #
SCALE:
FILENAME: OMFS-STD-SBD008
CONTRACT No.: AE-0030-17
DATE: 2/27/2024

SOUND TRANSIT PRELIMINARY ENGINEERING PLANS OPERATIONS & MAINTENANCE FACILITY SOUTH	
STRUCTURAL AERIAL GUIDEWAY - SUBSTRUCTURE DOUBLE-TRACK ABUTMENT ON SPREAD FOOTING ON MSE	

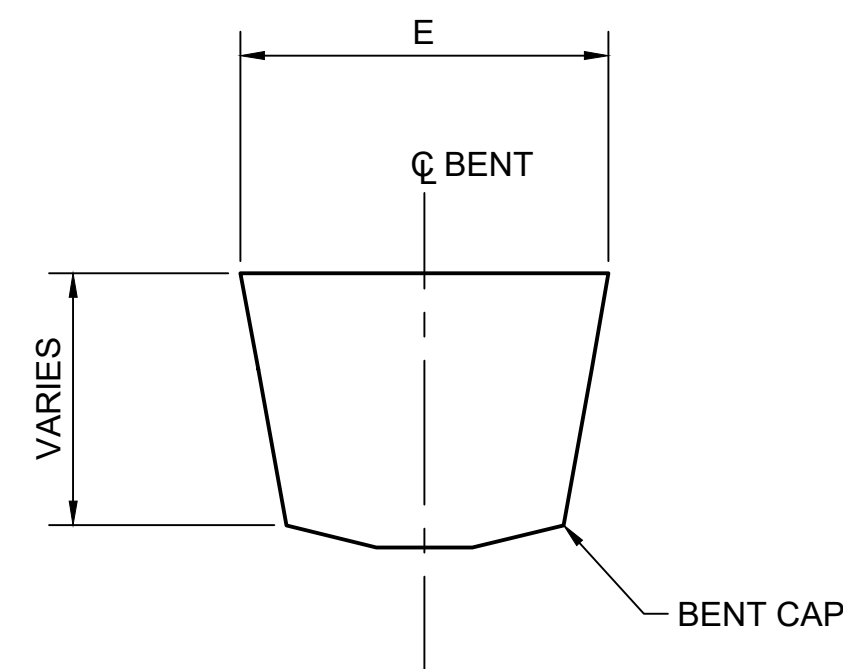
DRAWING No.:	STD-SBD008
FACILITY ID:	S08
SHEET No.:	REV:



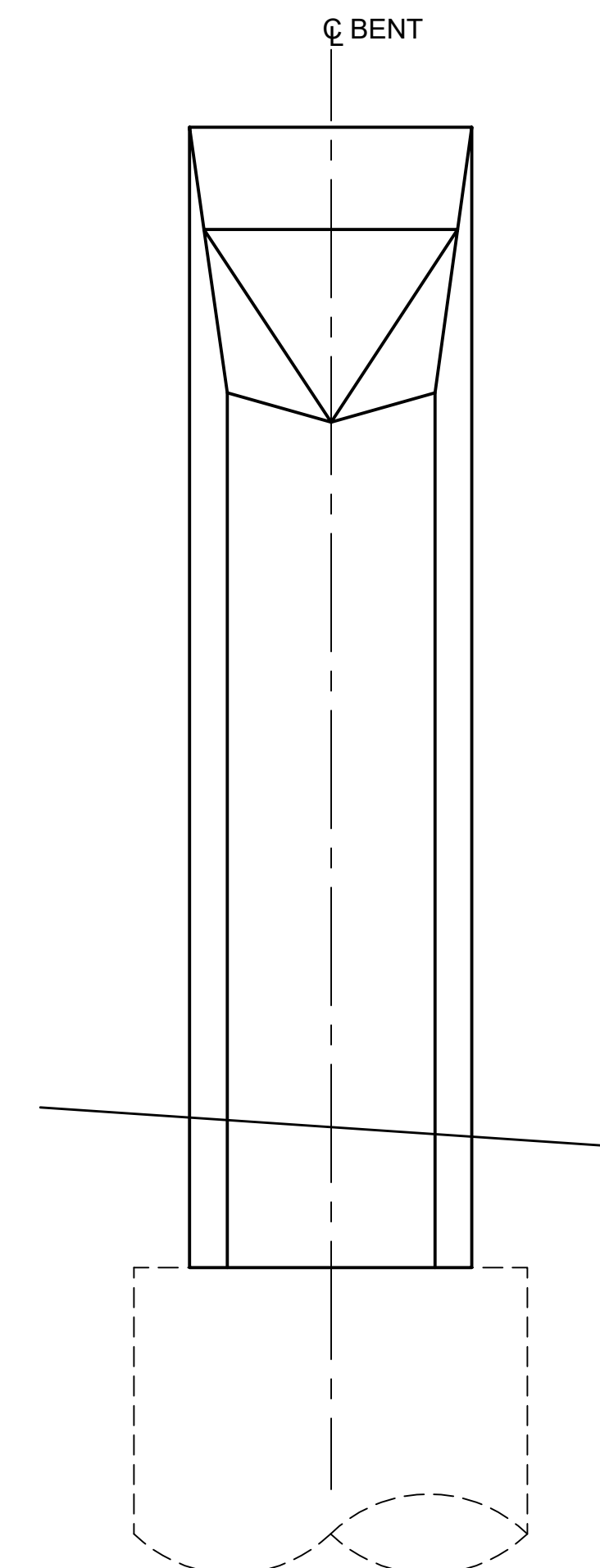
*Refer to the plan set COVER drawing
for disclaimers regarding this drawing.*

Refer to the plan set COVER drawing for disclaimers regarding this drawing.

REFERENCE CONCEPT DRAWINGS						DESIGNED BY: B. ROGERS	PRELIMINARY BRILL JAMES STATE OF WASHINGTON 1889 PROFESSIONAL ENGINEER	HDR			LINE IS 1" AT FULL SCALE SOUNDTRANSIT	PACKAGE #		SOUND TRANSIT PRELIMINARY ENGINEERING PLANS OPERATIONS & MAINTENANCE FACILITY SOUTH STRUCTURAL AERIAL GUIDEWAY - SUBSTRUCTURE THREE-TRACK ABUTMENT ON SPREAD FOOTING		DRAWING No.: STD-SBD010																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
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SECTION **B**
SCALE: 1/4" = 1'-0"



BENT SIDE ELEVATION **A**
SCALE: 1/4" = 1'-0"

BENT SIDE ELEVATION **C**
SCALE: 1/4" = 1'-0"

BENT TABLE				
BENT ID	C	D	E	F
A1, A5		7'-6"	SEE COL SCH	28'-0"

NOT FOR
CONSTRUCTION

HDR

DATE:
2/27/2024

FULL SCALE



SOUNDTRANSIT

1. *Journal of the American Medical Association*, 2000; 283: 2686-2692.

SCALE:	
FILENAME:	OMFS-STD-SBD011
CONTRACT No.:	AE-0030-17
DATE:	2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH
STRUCTURAL
AERIAL GUIDEWAY - SUBSTRUCTURE
TYPICAL OFFSET BENT AT DOUBLE TRACK

DRAWING No.:	
STD-SBD011	
FACILITY ID:	
S08	
SHEET No.:	REV:

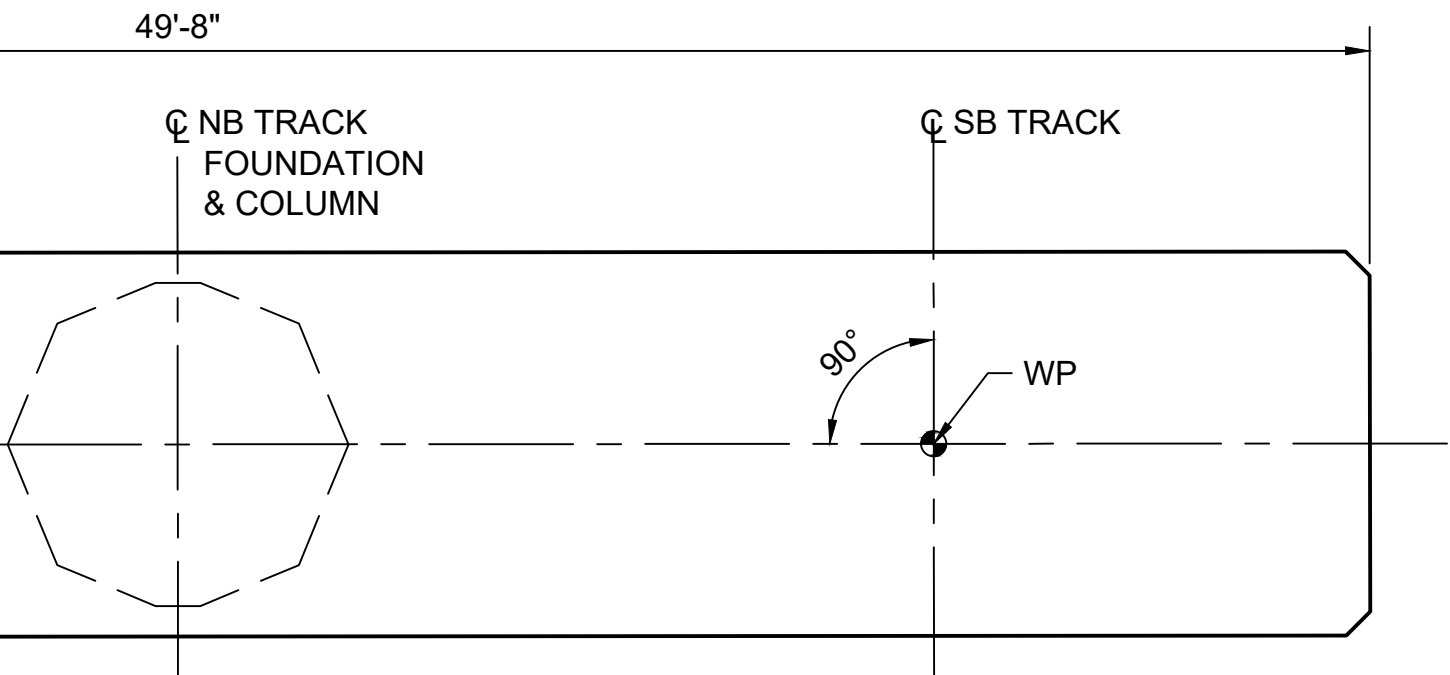
02/25/24 | 11:14 PM | VALENALV
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*Refer to the plan set COVER drawing
for disclaimers regarding this drawing.*

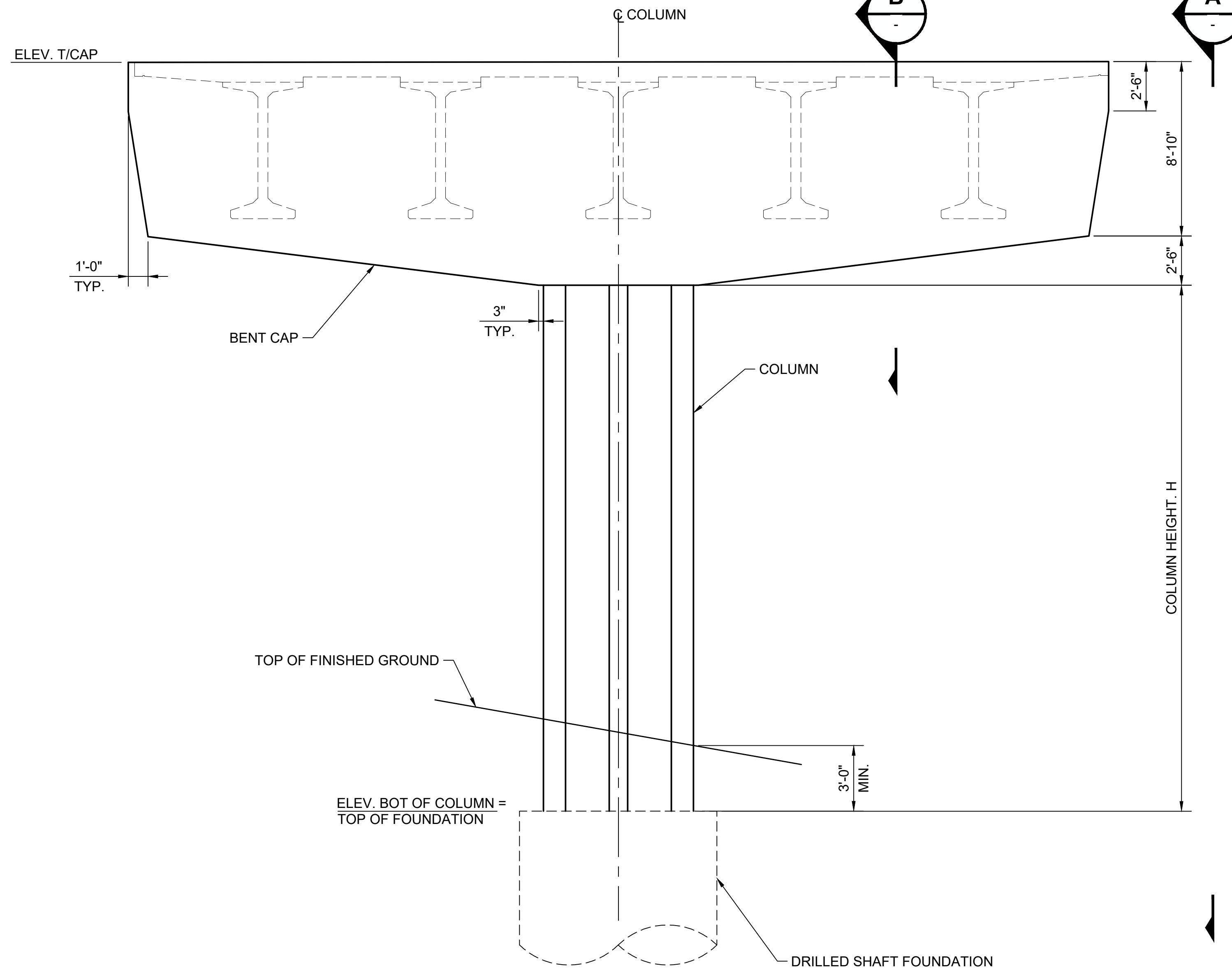
REFERENCE CONCEPT DRAWINGS

No.	DATE	DSN	CHK	APP	REVISION

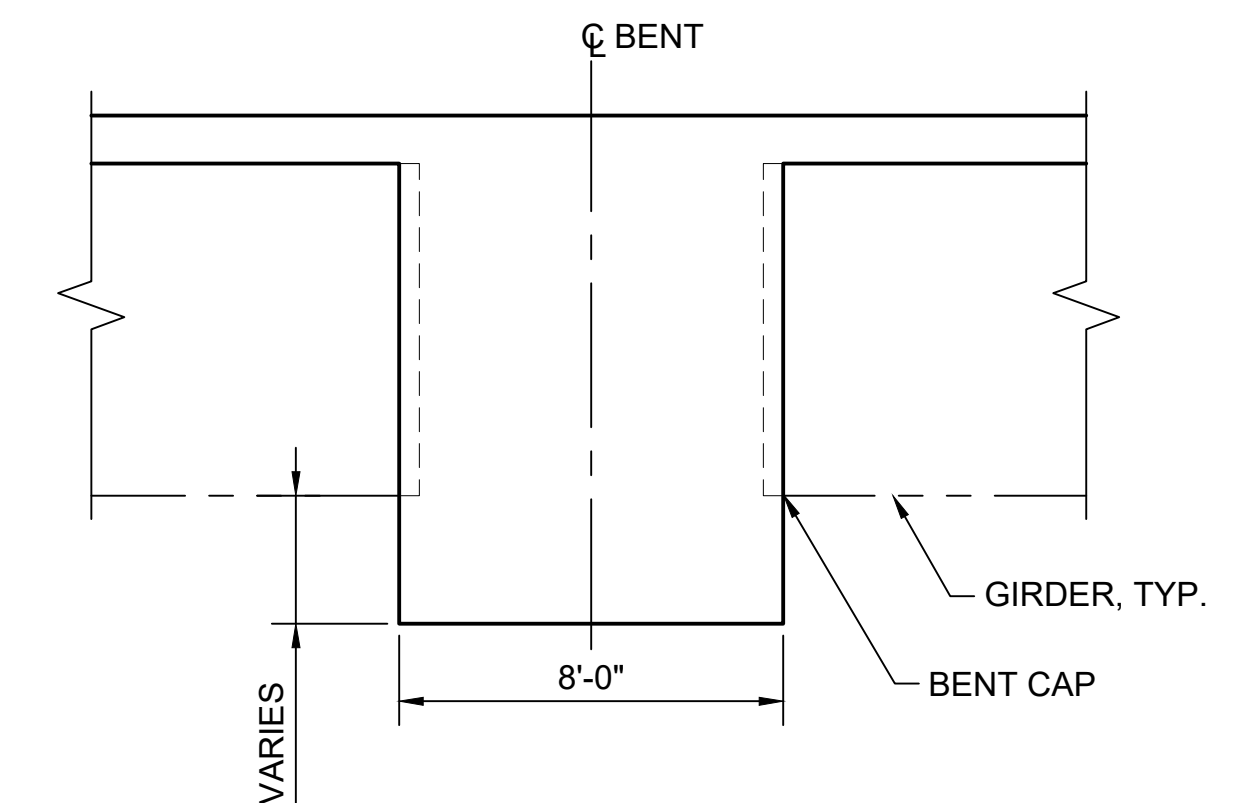
DESIGNED BY:	B. HARRIS
DRAWN BY:	A. VALENCIA
CHECKED BY:	J. MERTH
APPROVED BY:	B. HARRIS



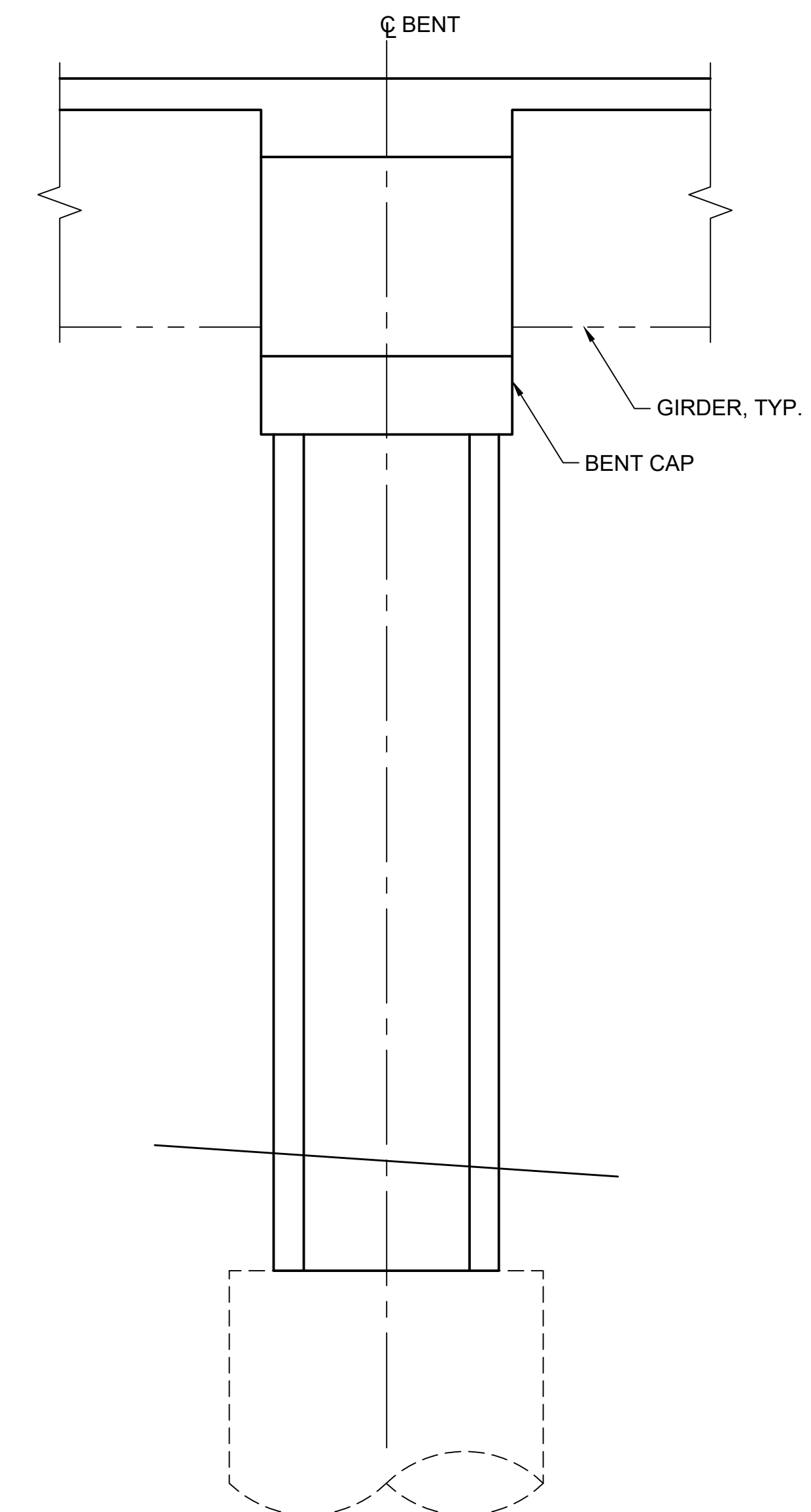
BENT PLAN
SCALE: 1/4" = 1'-0"



BENT ELEVATION 1
SCALE: 1/4" = 1'-0"



SECTION **B**
SCALE: 1/4" = 1'-0"



BENT SIDE ELEVATION **A**
SCALE: 1/4" = 1'-0"

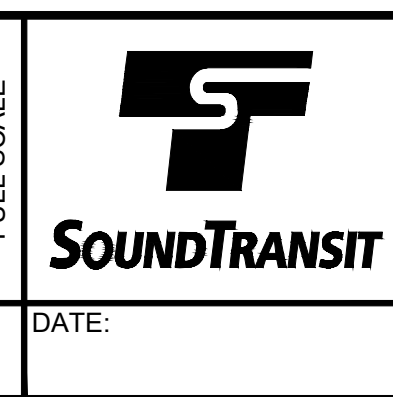
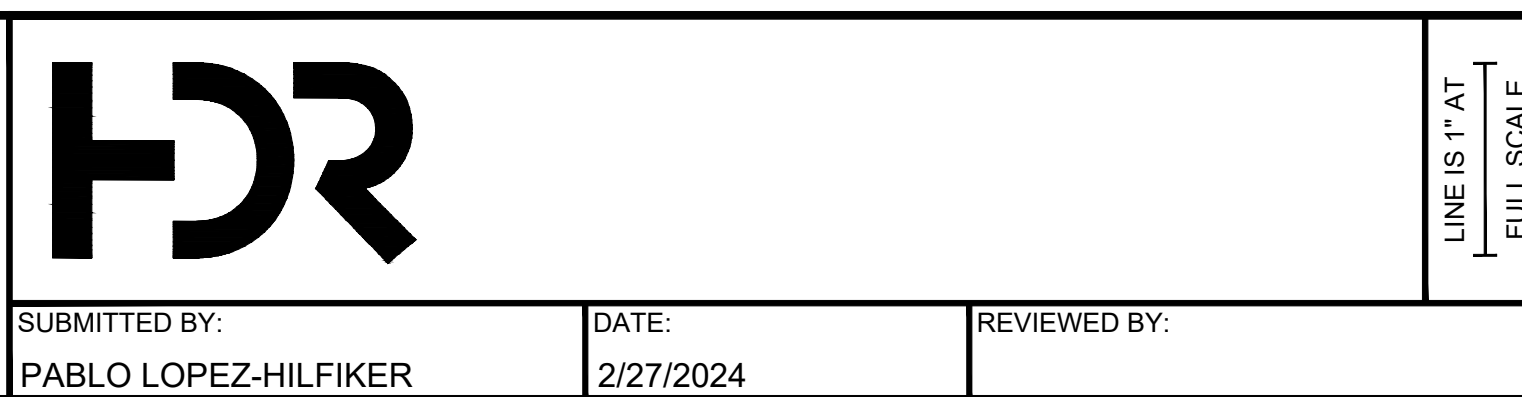
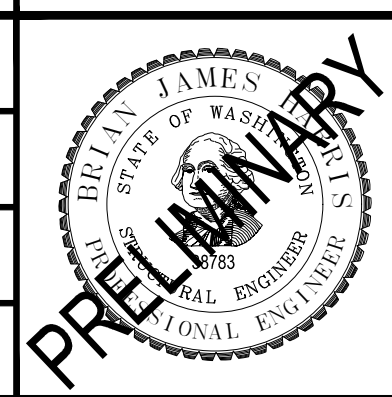
NOT FOR
CONSTRUCTION

02/25/24 | 11:15 PM | VALENALV
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*Refer to the plan set COVER drawing
for disclaimers regarding this drawing.*

REFERENCE CONCEPT DRAWINGS					
No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY:	B. HARRIS
DRAWN BY:	A. VALENCIA
CHECKED BY:	J. MERTH
APPROVED BY:	B. HARRIS



PACKAGE #			
SCALE:	SOUND TRANSIT PRELIMINARY ENGINEERING PLANS OPERATIONS & MAINTENANCE FACILITY SOUTH STRUCTURAL AERIAL GUIDEWAY - SUBSTRUCTURE INTEGRAL HAMMERHEAD BENT AT 3-TRACK		DRAWING No.:
FILENAME:			STD-SBD012
OMFS-STD-SBD012			FACILITY ID:
CONTRACT No.:			S08
AE-0030-17			SHEET No.:
DATE:			
2/27/2024			

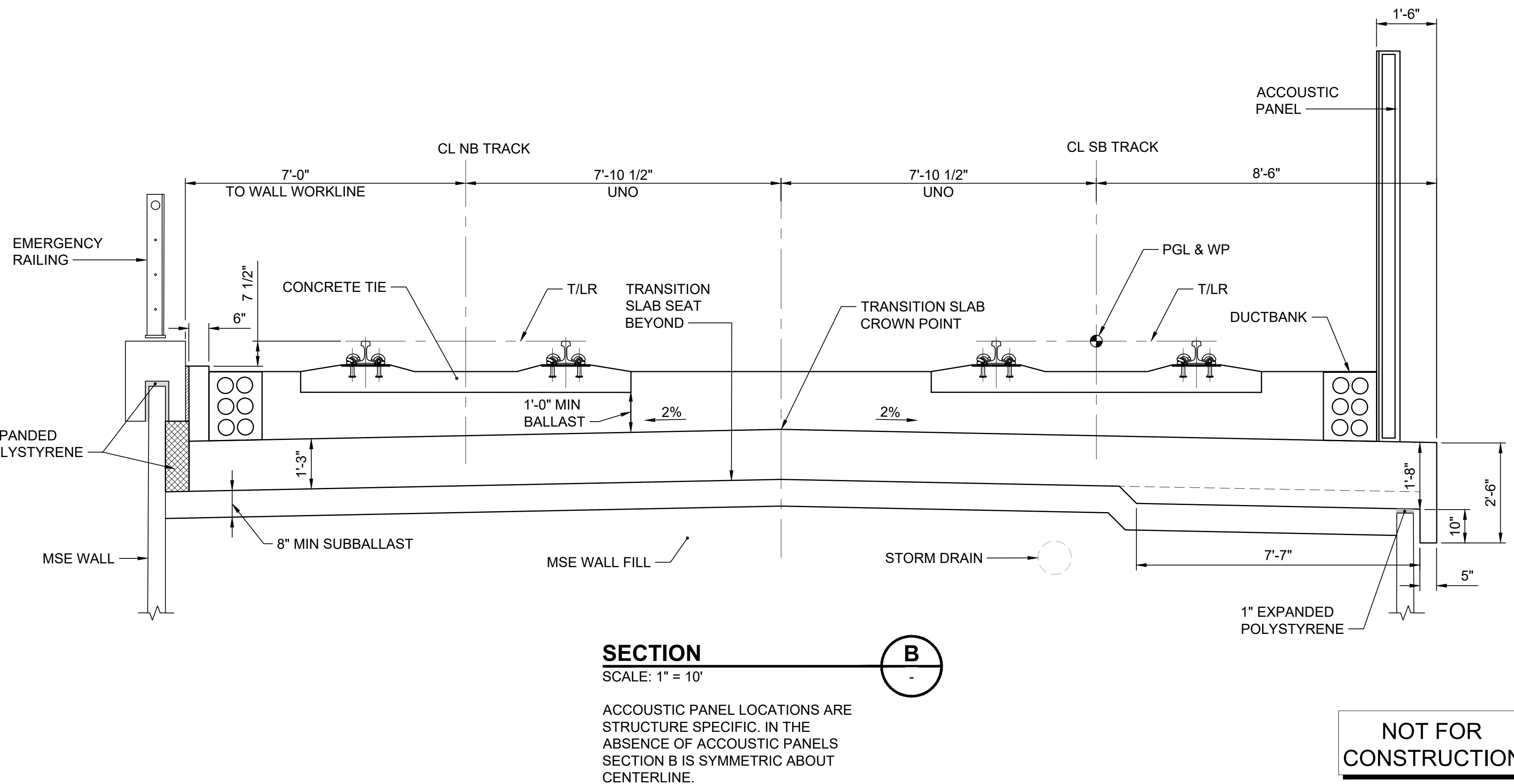
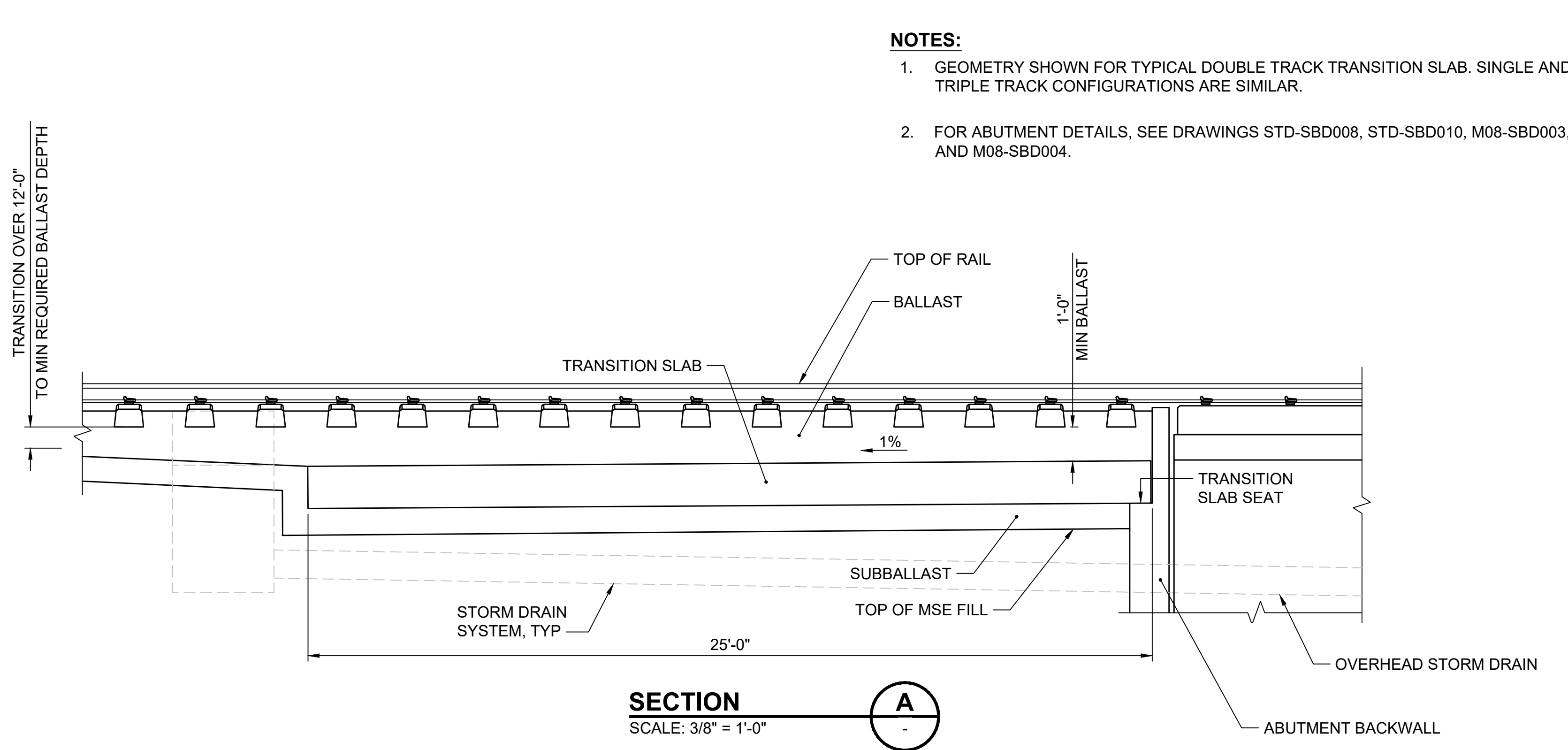
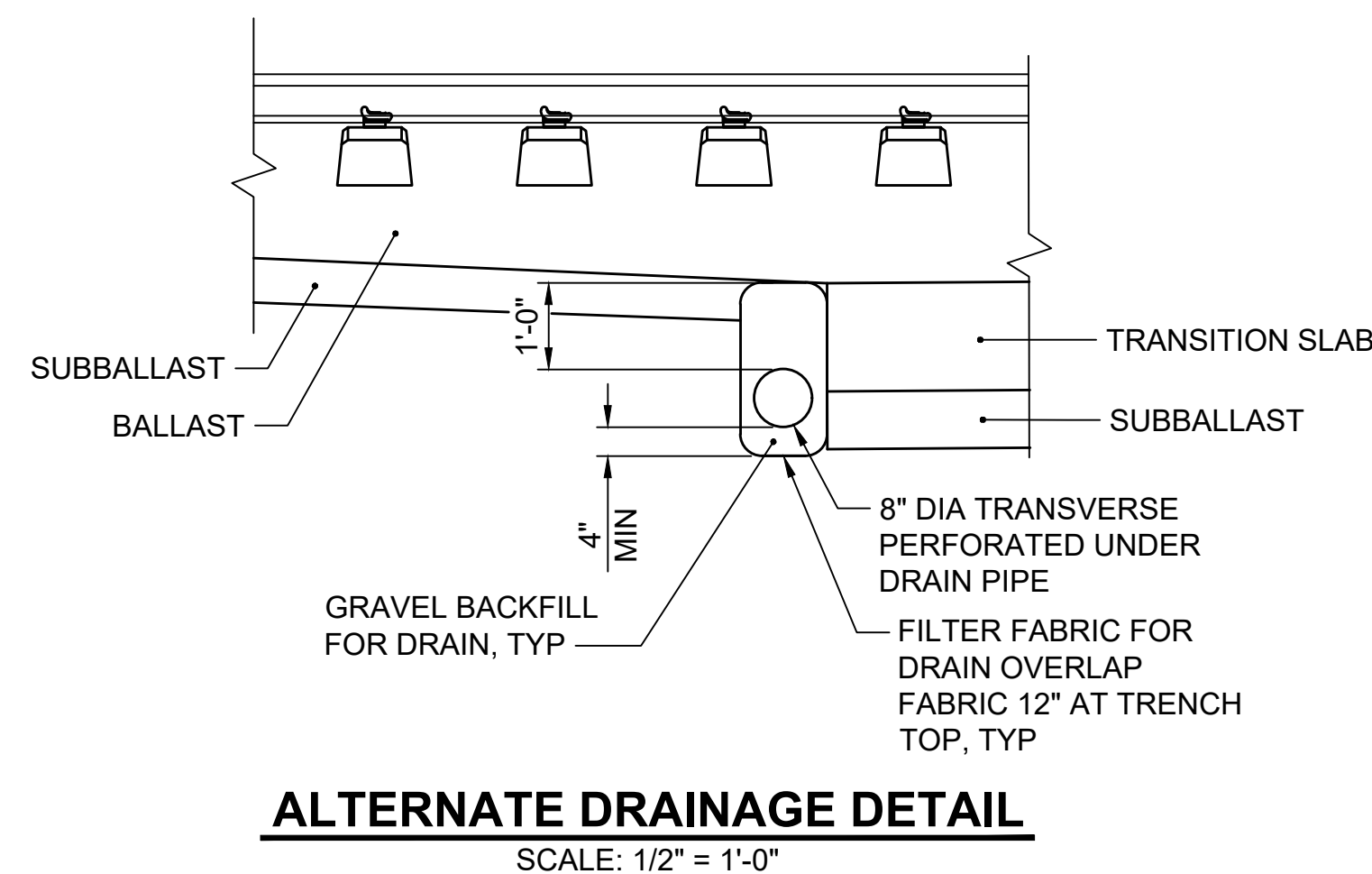
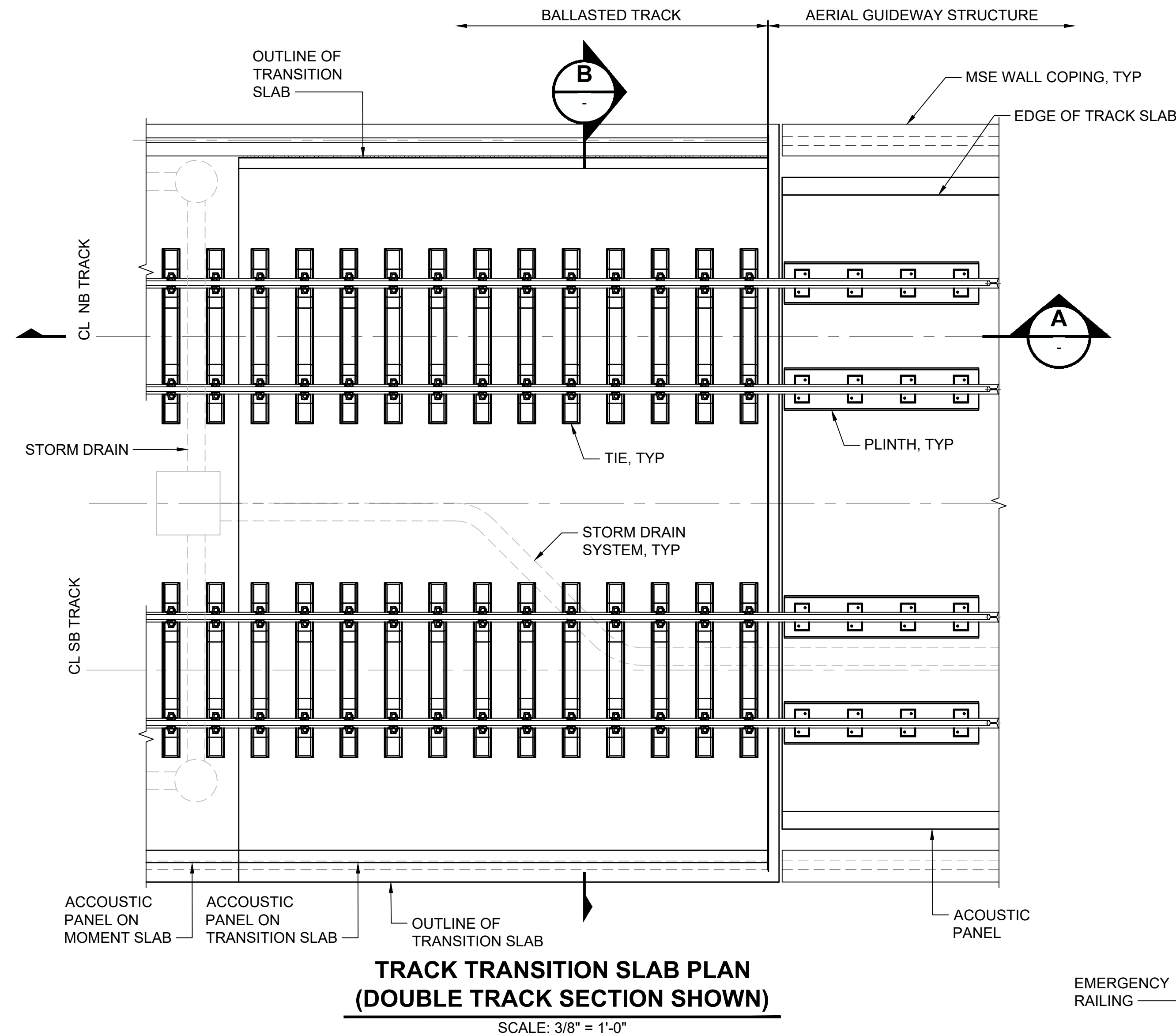
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Refer to the plan set COVER drawing
for disclaimers regarding this drawing.

REFERENCE CONCEPT DRAWINGS					
No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY:	B. ROGERS
DRAWN BY:	A. VALENCIA
CHECKED BY:	J. MERTH
APPROVED BY:	B. HARRIS

AHJ:				PACKAGE #			
PRELIMINARY BRILLIANT JAMES STATE OF WASHINGTON PROFESSIONAL ENGINEER HR Submitted By: PABLO LOPEZ-HILFIKER Date: 2/27/2024				SCALE:			
				FILENAME:			
				OMFS-STD-SED011			
				CONTRACT No.:			
				AE-0030-17			
SUBMITTED BY:				DATE:			
PABLO LOPEZ-HILFIKER				2/27/2024			
REVIEWED BY:				DATE:			
				2/27/2024			
SOUND TRANSIT PRELIMINARY ENGINEERING PLANS OPERATIONS & MAINTENANCE FACILITY SOUTH						DRAWING No.:	
STRUCTURAL AERIAL GUIDEWAY - SUBSTRUCTURE TRANSITION SLAB DETAILS						STD-SED011	
						FACILITY ID:	
						S08	
						SHEET No.:	
						REV:	



NOT FOR
CONSTRUCTION

1. GUIDEWAY SECTION SHOWN UPSTATION (SB TRACK ON RIGHT SIDE).
2. RAIL AND PLINTH SHOWN LEVEL, VARIES WITH SUPERELEVATION
3. FOR OCS POLE LOCATION AND OFFSET, SEE SYSTEMS DRAWINGS.
4. DISTANCE FROM PGL TO TOP OF TRACK SLAB AT LOW POINT IS CONSTANT.
5. FOR WALKWAY LAYOUT, SEE TRACK DRAWINGS.
6. FOR ACOUSTIC BARRIER LOCATIONS, SEE NOISE WALL SCHEDULE.
7. GUIDEWAY DRAINAGE DETAILS SHOWN ARE FIGURATIVE. SEE DRAINAGE DWGS FOR MORE INFORMATION. NUMBER, SIZE, AND LOCATION OF DRAINS TO BE DETERMINED IN FINAL DESIGN.

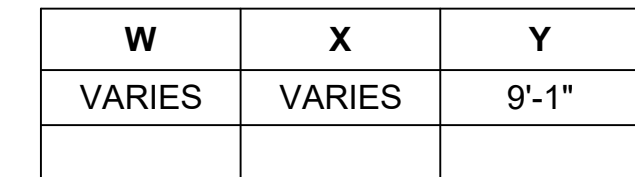
A	B	C
VARIES	VARIES	10'-1"



*Refer to the plan set COVER drawing
for disclaimers regarding this drawing.*

02/25/24 | 11:23 PM | VALENALV
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1. GUIDEWAY SECTION SHOWN UPSTATION (SB TRACK ON RIGHT SIDE).
2. RAIL AND PLINTH SHOWN LEVEL, VARIES WITH SUPERELEVATION
3. FOR OCS POLE LOCATION AND OFFSET, SEE SYSTEMS DRAWINGS.
4. DISTANCE FROM PGL TO TOP OF TRACK SLAB AT LOW POINT IS CONSTANT.
5. FOR WALKWAY LAYOUT, SEE TRACK DRAWINGS.
6. FOR ACOUSTIC BARRIER LOCATIONS, SEE NOISE WALL SCHEDULE.
7. GUIDEWAY DRAINAGE DETAILS SHOWN ARE FIGURATIVE. SEE DRAINAGE DWGS FOR MORE INFORMATION. NUMBER, SIZE, AND LOCATION OF DRAINS TO BE DETERMINED IN FINAL DESIGN.

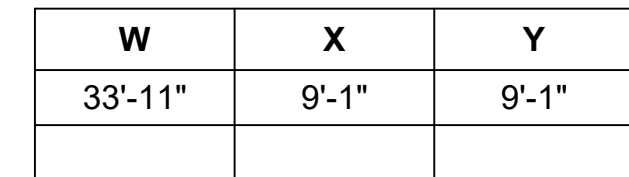


A	B	C/D/E
VARIES	VARIES	VARIES

NOT FOR
CONSTRUCTION

AHJ:					PACKAGE #				
					SCALE:	SOUND TRANSIT PRELIMINARY ENGINEERING PLANS OPERATIONS & MAINTENANCE FACILITY SOUTH STRUCTURAL AERIAL GUIDEWAY - SUPERSTRUCTURE DOUBLE TRACK SECTION WITH OVERBUILD			DRAWING No.:
					FILENAME:				STD-SGX002
					CONTRACT No.:				
					AE-0030-17				
SUBMITTED BY:		DATE:		REVIEWED BY:		DATE:		SHEET No.:	REV:
PABLO LOPEZ-HILFIKER		2/27/2024				2/27/2024		S08	

1. GUIDEWAY SECTION SHOWN UPSTATION (SB TRACK ON RIGHT SIDE).
2. RAIL AND PLINTH SHOWN LEVEL, VARIES WITH SUPERELEVATION
3. FOR OCS POLE LOCATION AND OFFSET, SEE SYSTEMS DRAWINGS.
4. DISTANCE FROM PGL TO TOP OF TRACK SLAB AT LOW POINT IS CONSTANT.
5. FOR WALKWAY LAYOUT, SEE TRACK DRAWINGS.
6. FOR ACOUSTIC BARRIER LOCATIONS, SEE NOISE WALL SCHEDULE.
7. GUIDEWAY DRAINAGE DETAILS SHOWN ARE FIGURATIVE. SEE DRAINAGE DWGS FOR MORE INFORMATION. NUMBER, SIZE, AND LOCATION OF DRAINS TO BE DETERMINED IN FINAL DESIGN.



A	B	C
VARIES	VARIES	10'-1"

NOT FOR
CONSTRUCTION

AHJ:						PACKAGE #							
						SCALE:		SOUND TRANSIT PRELIMINARY ENGINEERING PLANS OPERATIONS & MAINTENANCE FACILITY SOUTH STRUCTURAL AERIAL GUIDEWAY - SUPERSTRUCTURE DOUBLE TRACK SECTION WITH EXTERIOR WALKWAYS				DRAWING No.:	
						FILENAME:						FACILITY ID:	
						OMFS-STD-SGX007						S08	
						CONTRACT No.:						SHEET No.:	
		AE-0030-17		DATE:		2/27/2024		REV:					
SUBMITTED BY:		DATE:		REVIEWED BY:		DATE:							
PABLO LOPEZ-HILFIKER		2/27/2024											

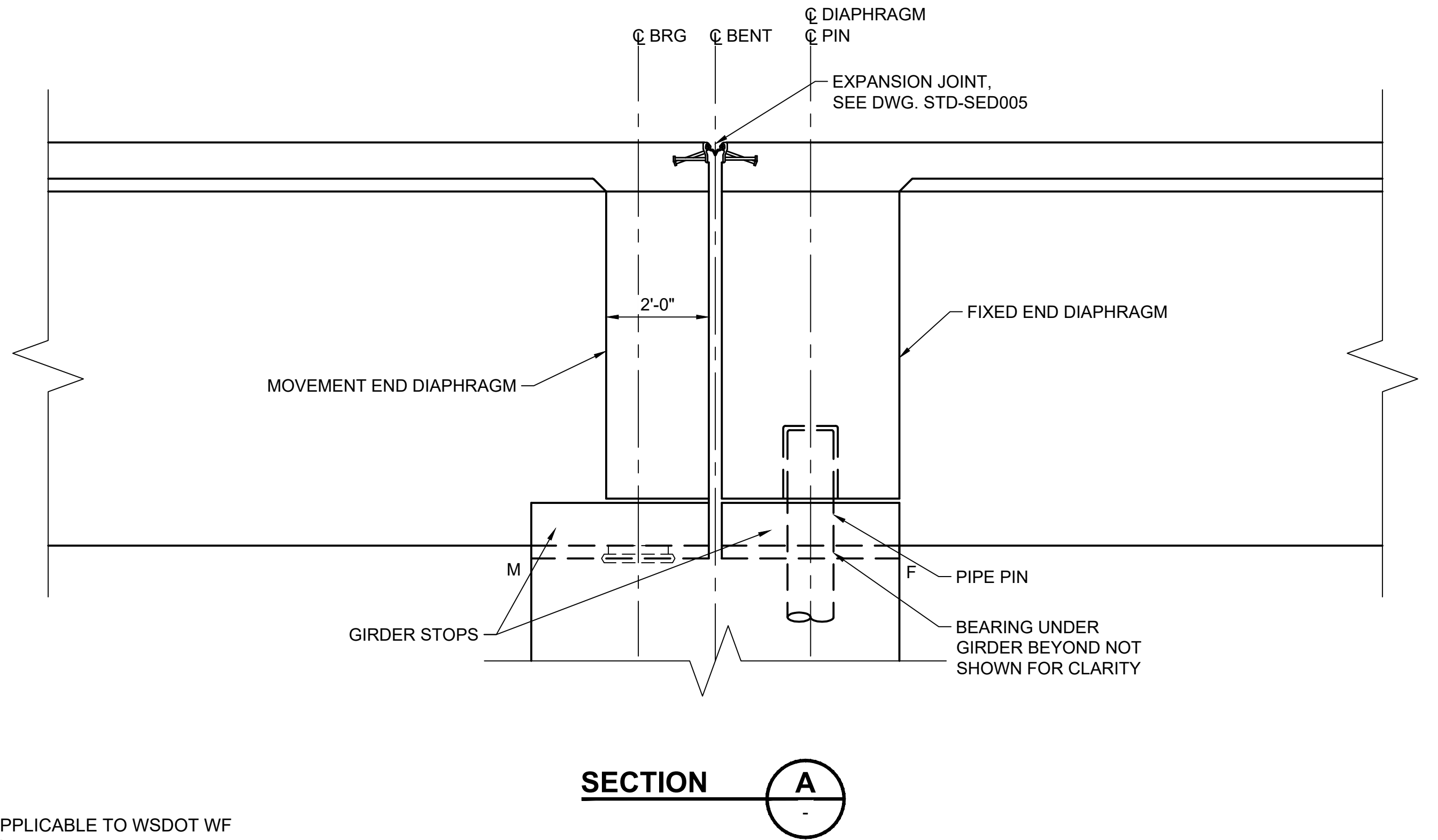
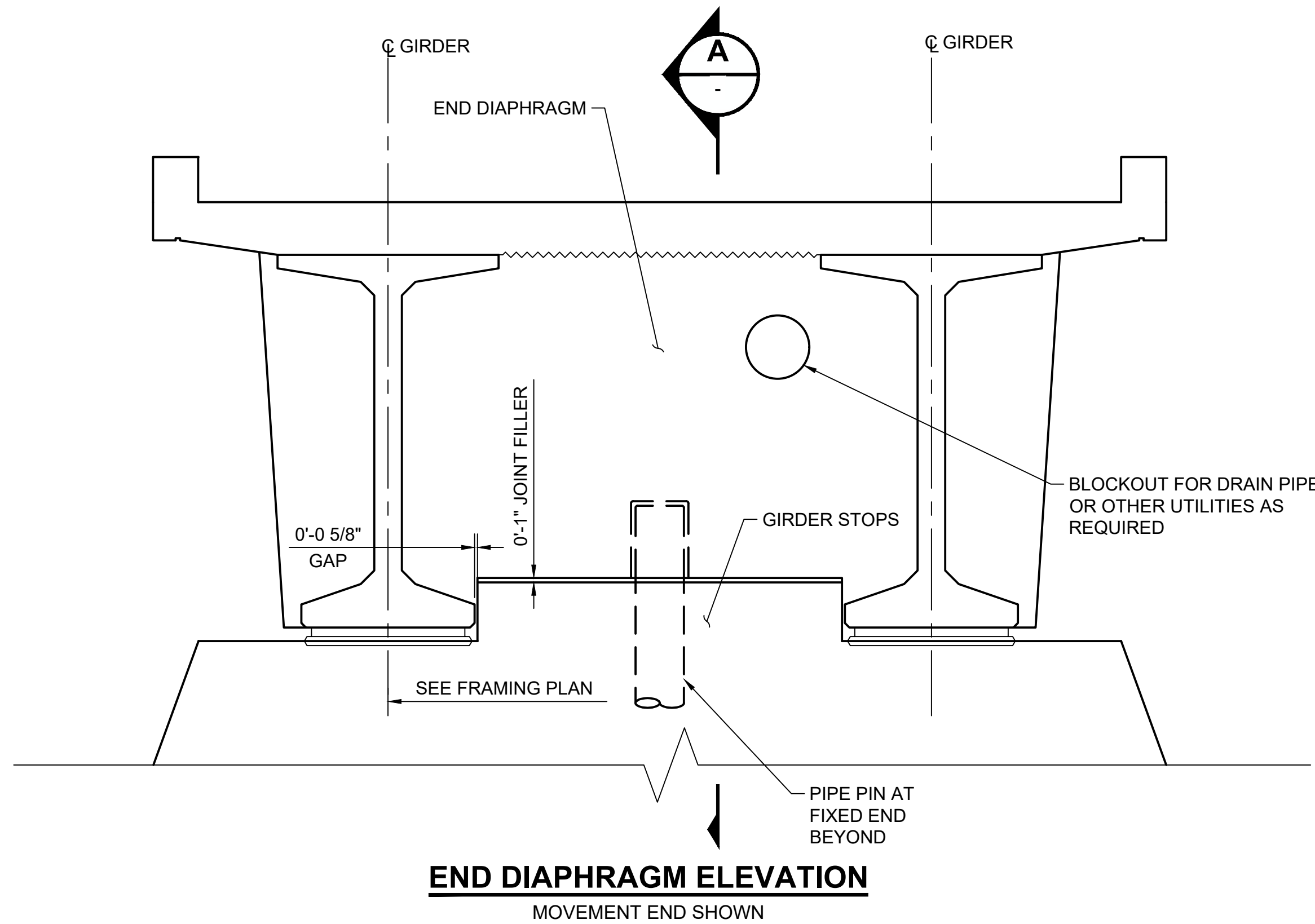


1. THE SPAN SHORT CHORD IS STRAIGHT LINE BETWEEN THE BACK STATION AND AHEAD STATION BENTS AT THE CENTERLINE OF THE SB TRACK.
2. GIRDERS WITHIN THE SPAN ARE TYPICALLY PARALLEL TO THE SPAN SHORT CHORD.
3. 3 - GIRDER SUPERSTRUCTURE SHOWN, 4 OR MORE GIRDER SUPERSTRUCTURE SIMILAR.

NOT FOR
CONSTRUCTION

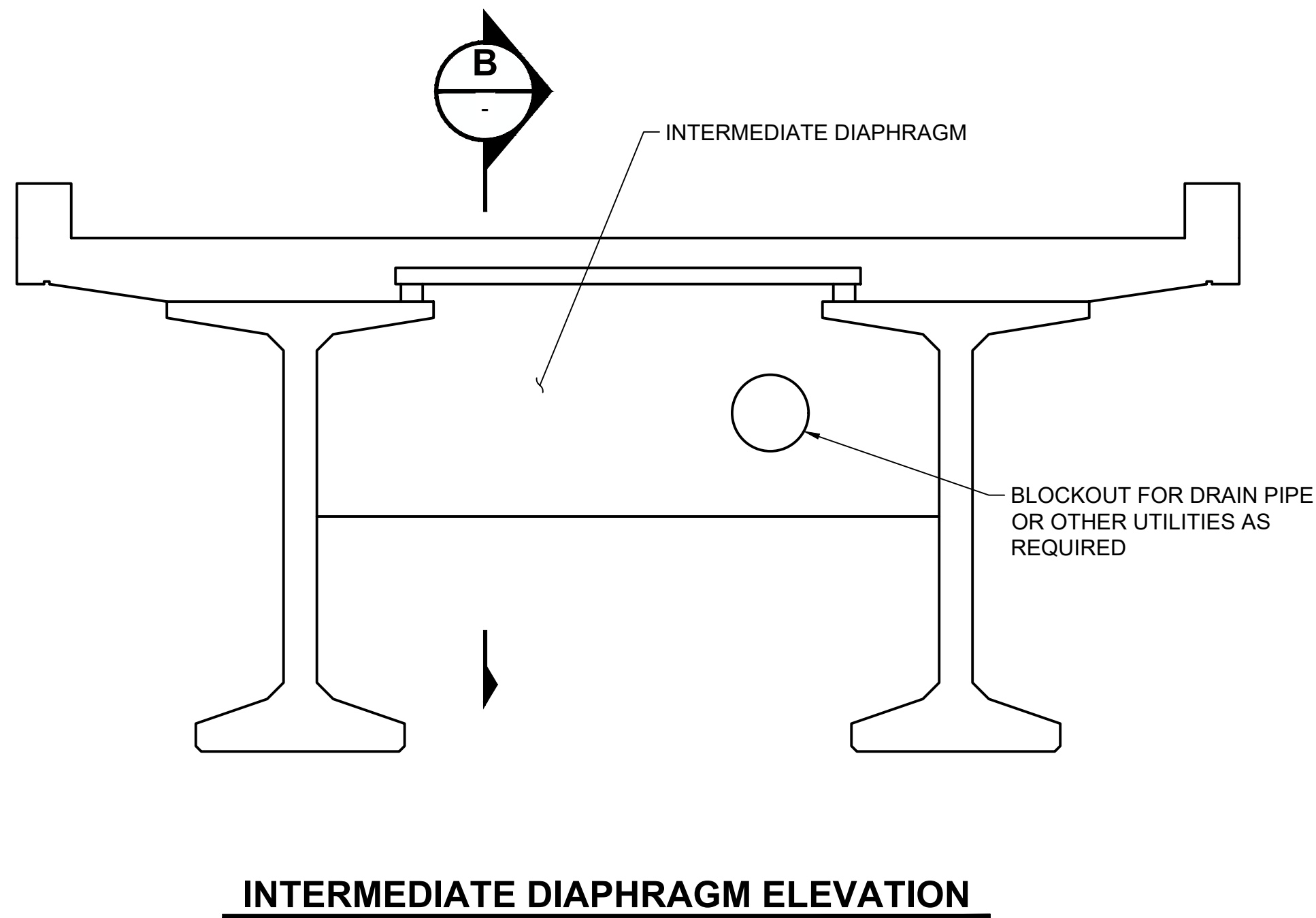
*Refer to the plan set COVER drawing
for disclaimers regarding this drawing*

for disclaimers regarding this drawing.										AHJ:		PACKAGE #					
REFERENCE CONCEPT DRAWINGS						DESIGNED BY: B. HARRIS		 PRELIMINARY		LINE IS " AT FULL SCALE	 SOUNDTRANSIT	SCALE:		SOUND TRANSIT PRELIMINARY ENGINEERING PLANS OPERATIONS & MAINTENANCE FACILITY SOUTH STRUCTURAL AERIAL GUIDEWAY - SUPERSTRUCTURE TYPICAL FRAMING PLAN ON CURVES - MAINLINE		DRAWING No.: STD-SGS002	
						DRAWN BY: A. VALENCIA						FILENAME: OMFS-STD-SGS002				FACILITY ID: S08	
						CHECKED BY: J. MERTH						CONTRACT No.: AE-0030-17				SHEET No.: REV:	
						APPROVED BY: B. HARRIS						DATE: 2/27/2024				REVIEWED BY:	
						SUBMITTED BY: PABLO LOPEZ-HILFIKER						DATE: 2/27/2024				DATE: 2/27/2024	
No.	DATE	DSN	CHK	APP	REVISION												

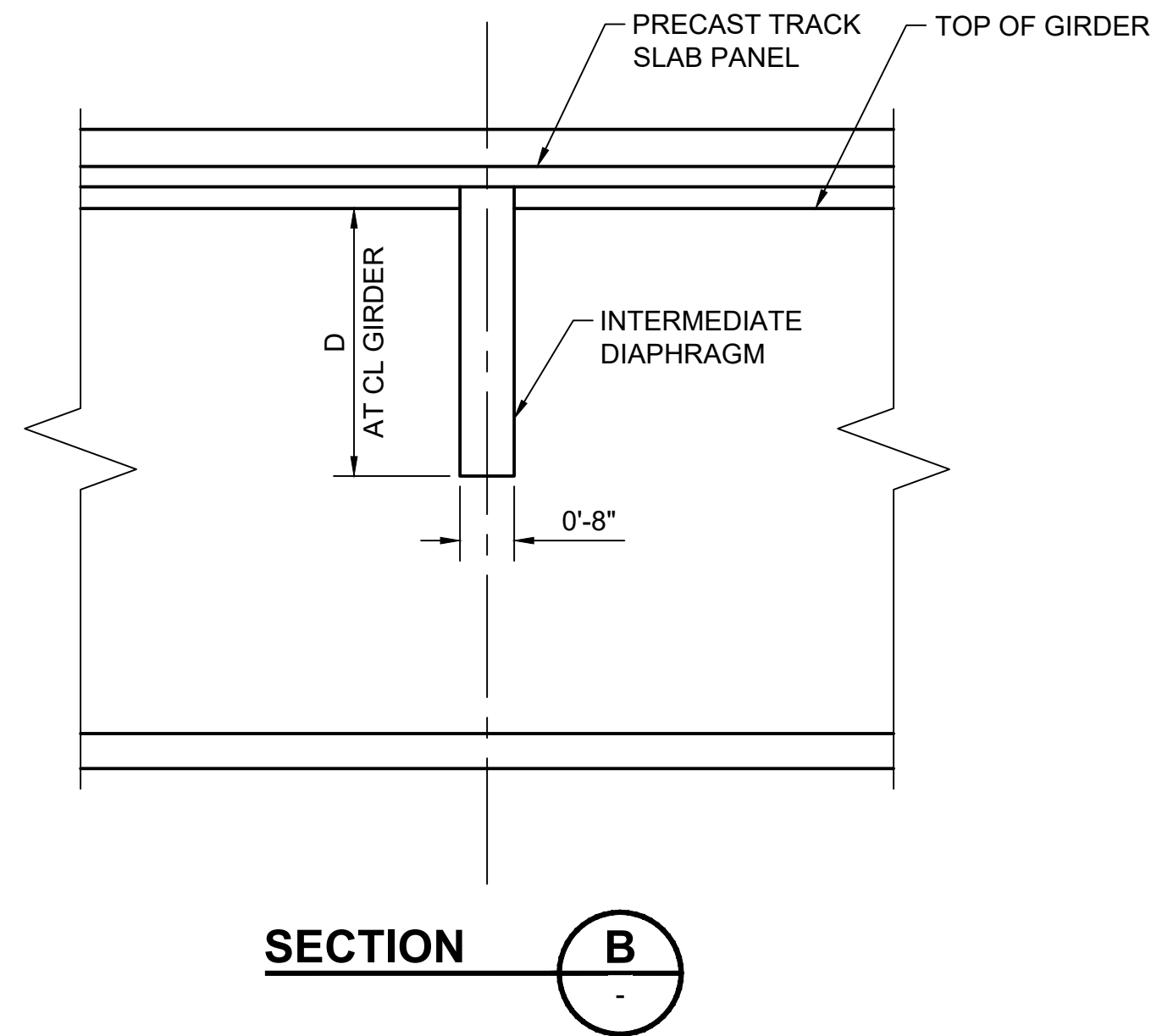


NOTES:

1. DIAPHRAGM THIS SHEET APPLICABLE TO WSDOT WF GIRDER GUIDEWAYS ONLY.
2. DIAPHRAGMS AT 2-GIRDER GUIDEWAY SECTION SHOWN. SIMILAR AT 3 OR MORE GIRDER GUIDEWAY SECTIONS.
3. DIAPHRAGMS SHOWN HERE NOT FOR SUPPORT OF OCS POLES. OCS SUPPORT DIAPHRAGMS NOT SHOWN.



GIRDER	D
WF42G	2'-3"
WF74G	3'-9"
WF83G	5'-0"
WF100G	5'-11"
WF100PTG	5'-11"



NOT FOR
CONSTRUCTION

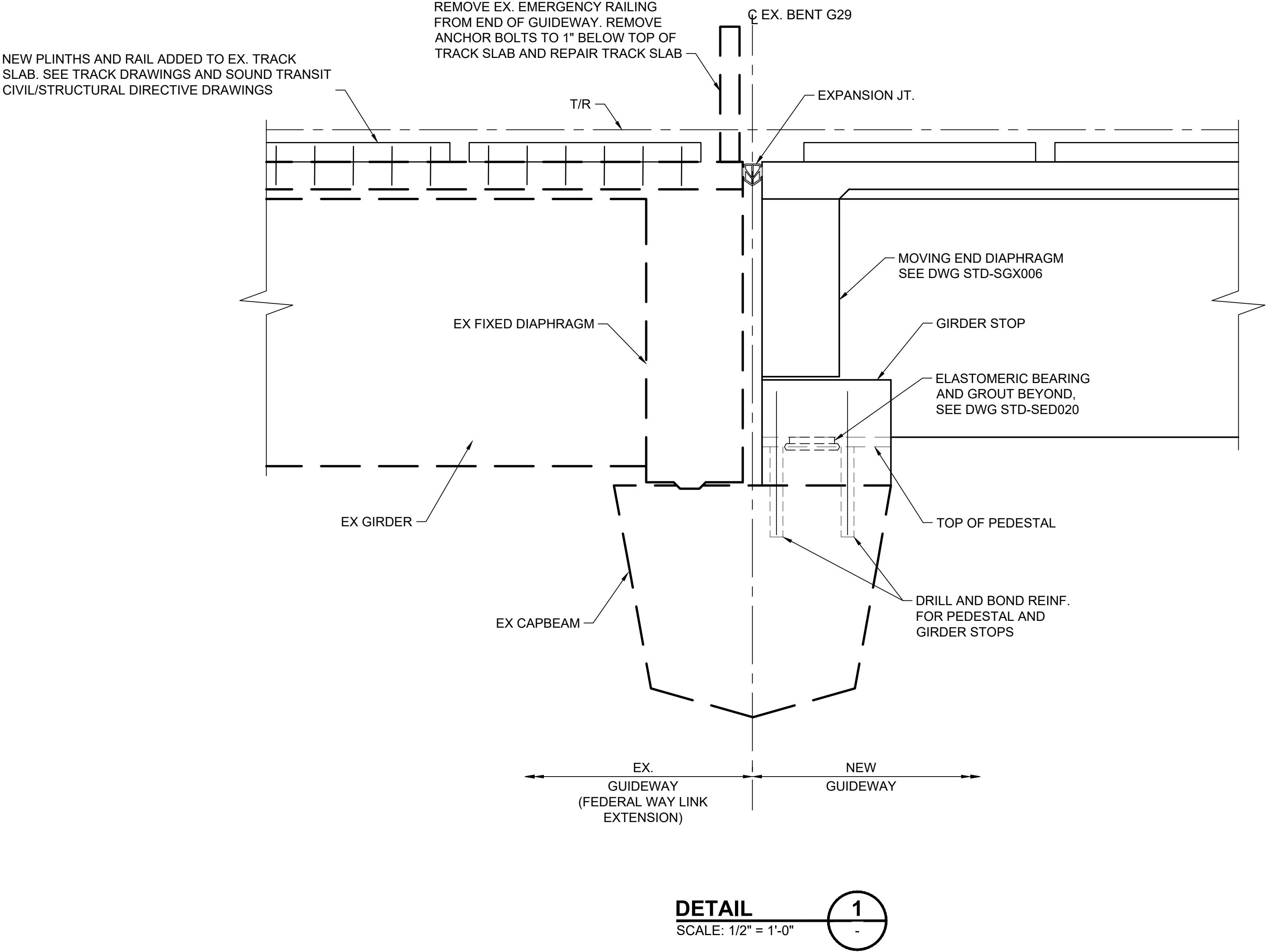
Refer to the plan set COVER drawing
for disclaimers regarding this drawing.

REFERENCE CONCEPT DRAWINGS						AHJ:		PACKAGE #		SOUND TRANSIT PRELIMINARY ENGINEERING PLANS OPERATIONS & MAINTENANCE FACILITY SOUTH				DRAWING No.: STD-SGX006	
						DESIGNED BY: B. HARRIS		SCALE:						FACILITY ID: S08	
						DRAWN BY: A. VALENCIA		FILENAME: OMFS-STD-SGX006							
						CHECKED BY: J. MERTH		CONTRACT No.: AE-0030-17						SHEET No.: REV:	
						APPROVED BY: B. HARRIS		DATE: 2/27/2024							
No.	DATE	DSN	CHK	APP	REVISION										

02/25/24 | 11:35 PM | VALENALV
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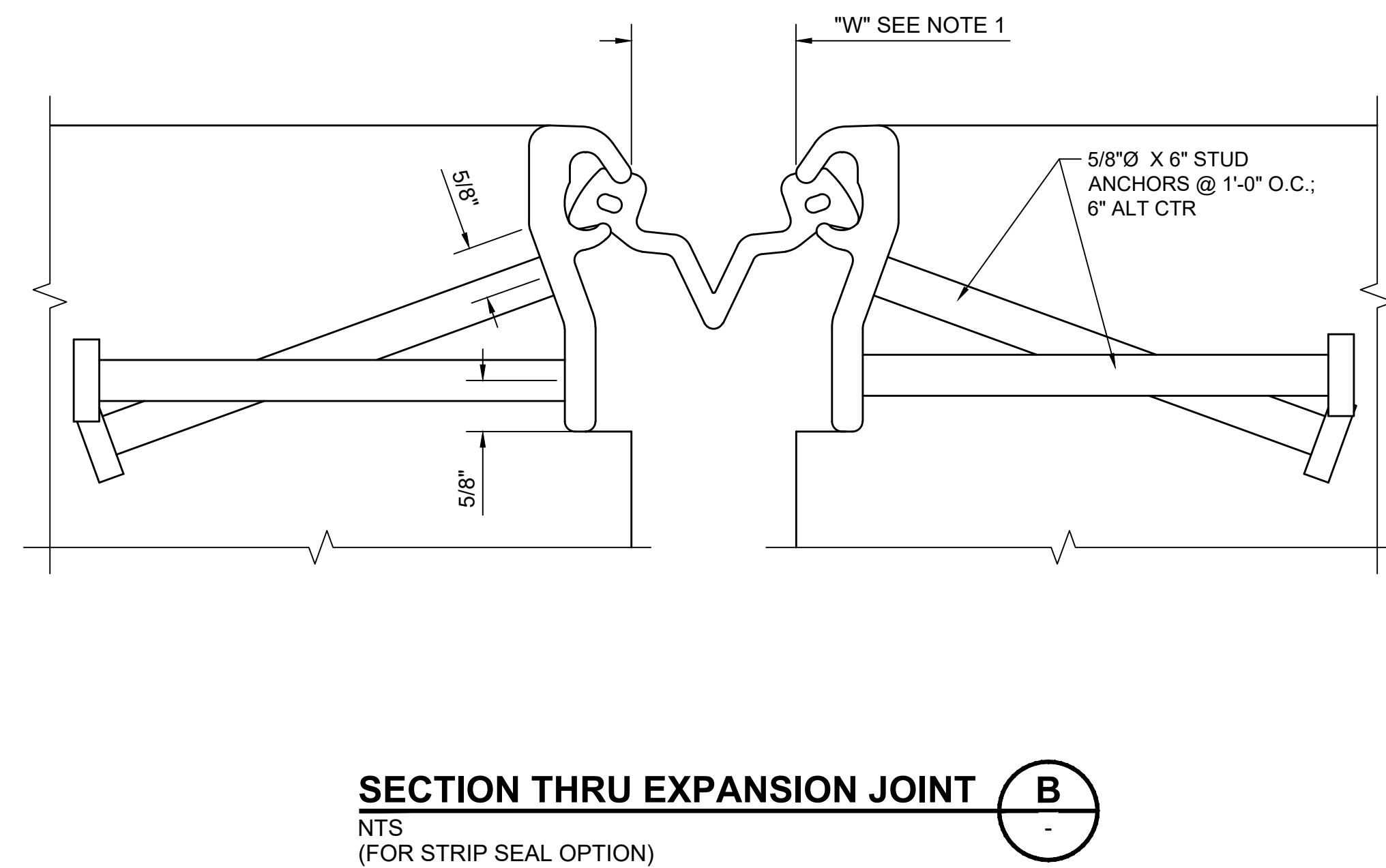
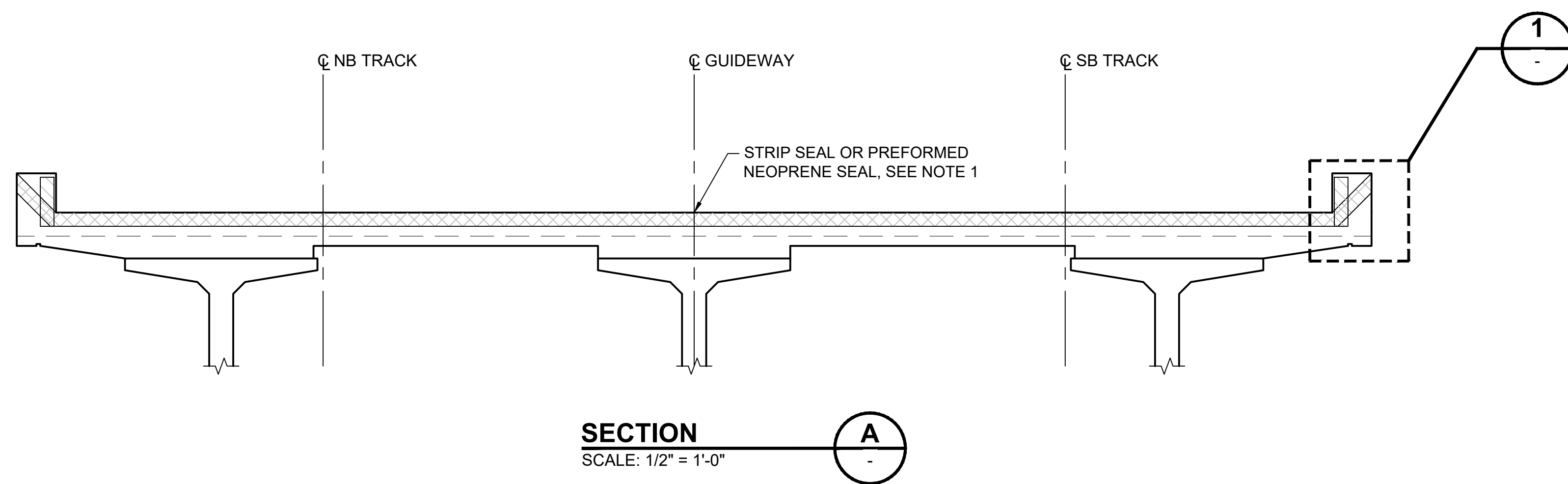
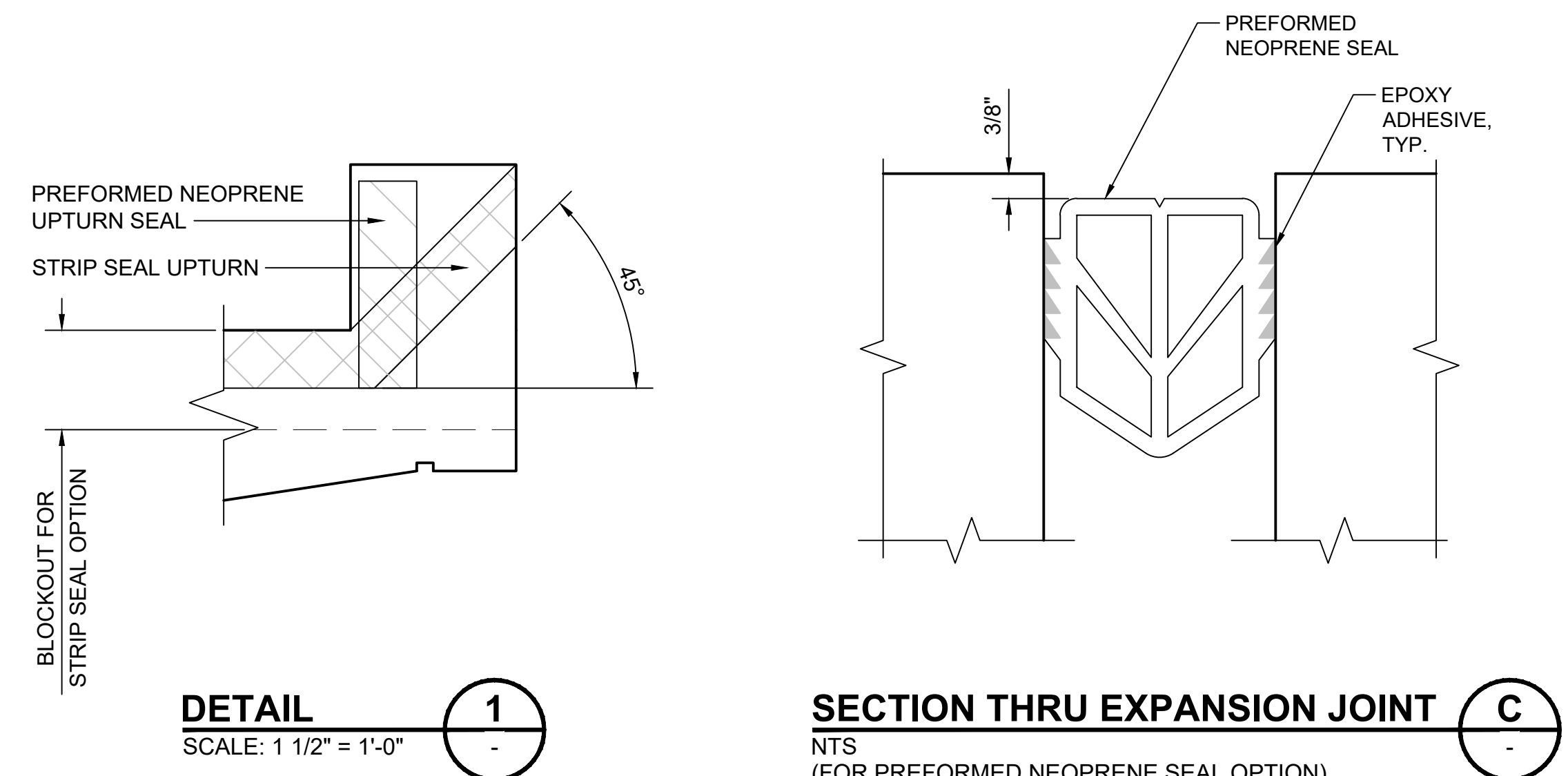
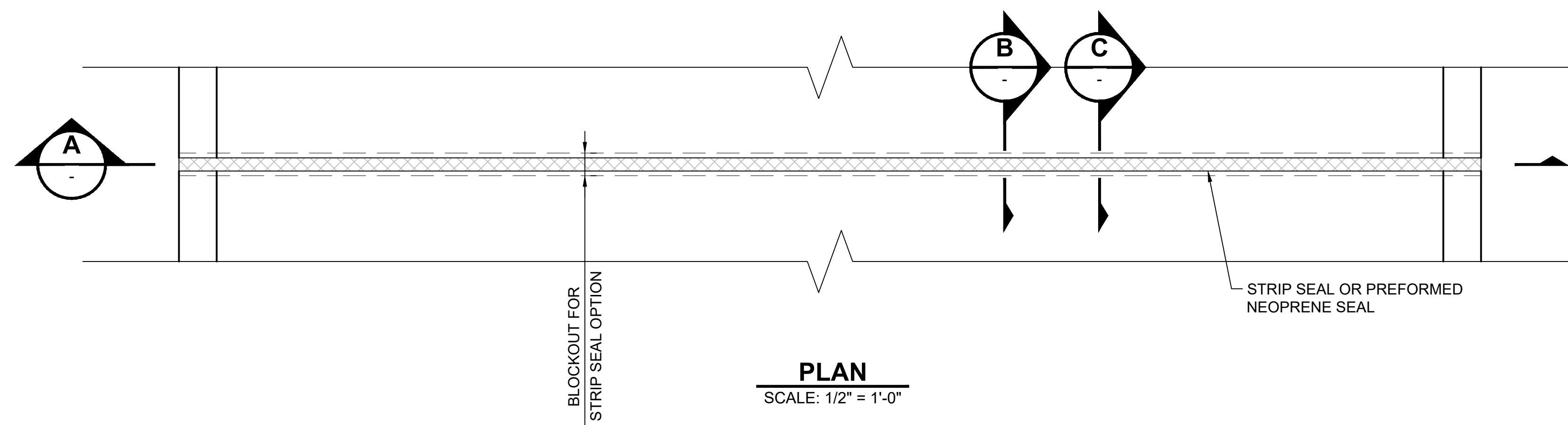
Refer to the plan set COVER drawing
for disclaimers regarding this drawing.

REFERENCE CONCEPT DRAWINGS							AHJ:		PACKAGE #									
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No.	DATE	DSN	CHK	APP	REVISION	SUBMITTED BY: PABLO LOPEZ-HILFIKER		DATE: 2/27/2024		REVIEWED BY:		DATE:		STRUCTURAL AERIAL GUIDEWAY - SUPERSTRUCTURE DETAIL AT EXISTING BENT		DRAWING No.: STD-SED018		
															FACILITY ID: S08		SHEET No.: REV:	



- NOTES:**
- 1. SEE TRACK AND SYSTEMS DRAWINGS FOR ADDITIONAL WORK REQUIRED ON EXISTING SPAN, INCLUDING BUT NOT LIMITED TO: NEW RAIL, REMOVAL OF EXISTING BUMPING POSTS, EXISTING SHIMMING, NEW OCS AND OTHER SYSTEMS WORK AND TIE-IN.

NOT FOR
CONSTRUCTION



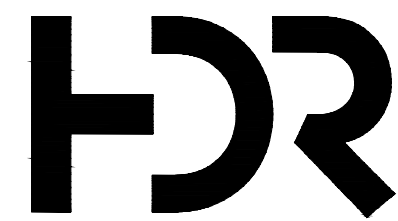
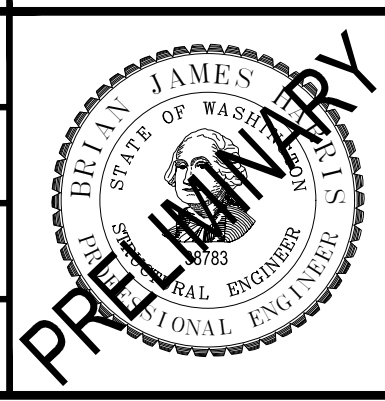
- NOTES:**
1. PREFORMED NEOPRENE SEAL FOR USE IN TYPICAL JOINTS WITH MOVEMENT RANGE UP TO 3.75". STRIP SEAL FOR USE WITH MOVEMENT RANGE UP TO 5".
 2. METAL COMPONENTS SHALL CONFORM TO ASTM A36 OR A588.
 3. JOINT OPENINGS ARE MEASURED NORMAL TO JOINT.
 4. THE ENTIRE STRIP SEAL ASSEMBLY SHALL BE CONSTRUCTED SO THAT THE STRIP SEAL MAY BE REMOVED AND REPLACED.
 5. STEEL COMPONENTS SHALL BE HOT-DIP GALVANIZED.

NOT FOR
CONSTRUCTION

REFERENCE CONCEPT DRAWINGS

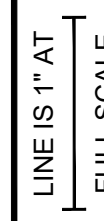
No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY:	B. HARRIS
DRAWN BY:	A. VALENCIA
CHECKED BY:	P. LI
APPROVED BY:	B. HARRIS

SUBMITTED BY:
PABLO LOPEZ-HILFIKER

DATE:	2/27/2024
-------	-----------

REVIEWED BY:



DATE:

PACKAGE #	
-----------	--

SCALE:

FILENAME:

CONTRACT No.:

DATE:	2/27/2024
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SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH
STRUCTURAL
AERIAL GUIDEWAY - SUPERSTRUCTURE
EXPANSION JOINT DETAILS

DRAWING No.:	
STD-SED005	
FACILITY ID:	
S08	
SHEET No.:	REV:

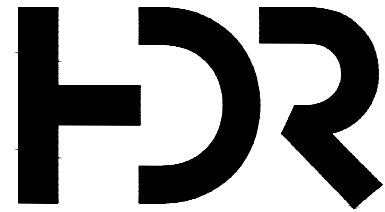
02/25/24 | 11:44 PM | VALENALV
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Refer to the plan set COVER drawing
for disclaimers regarding this drawing.

REFERENCE CONCEPT DRAWINGS

No.	DATE	DSN	CHK	APP	REVISION

DESIGNED BY:
B. HARRIS
DRAWN BY:
A. VALENCIA
CHECKED BY:
P. LI
APPROVED BY:
B. HARRIS



SUBMITTED BY:
PABLO LOPEZ-HILFIKER

DATE:
2/27/2024

REVIEWED BY:



DATE:

PACKAGE #

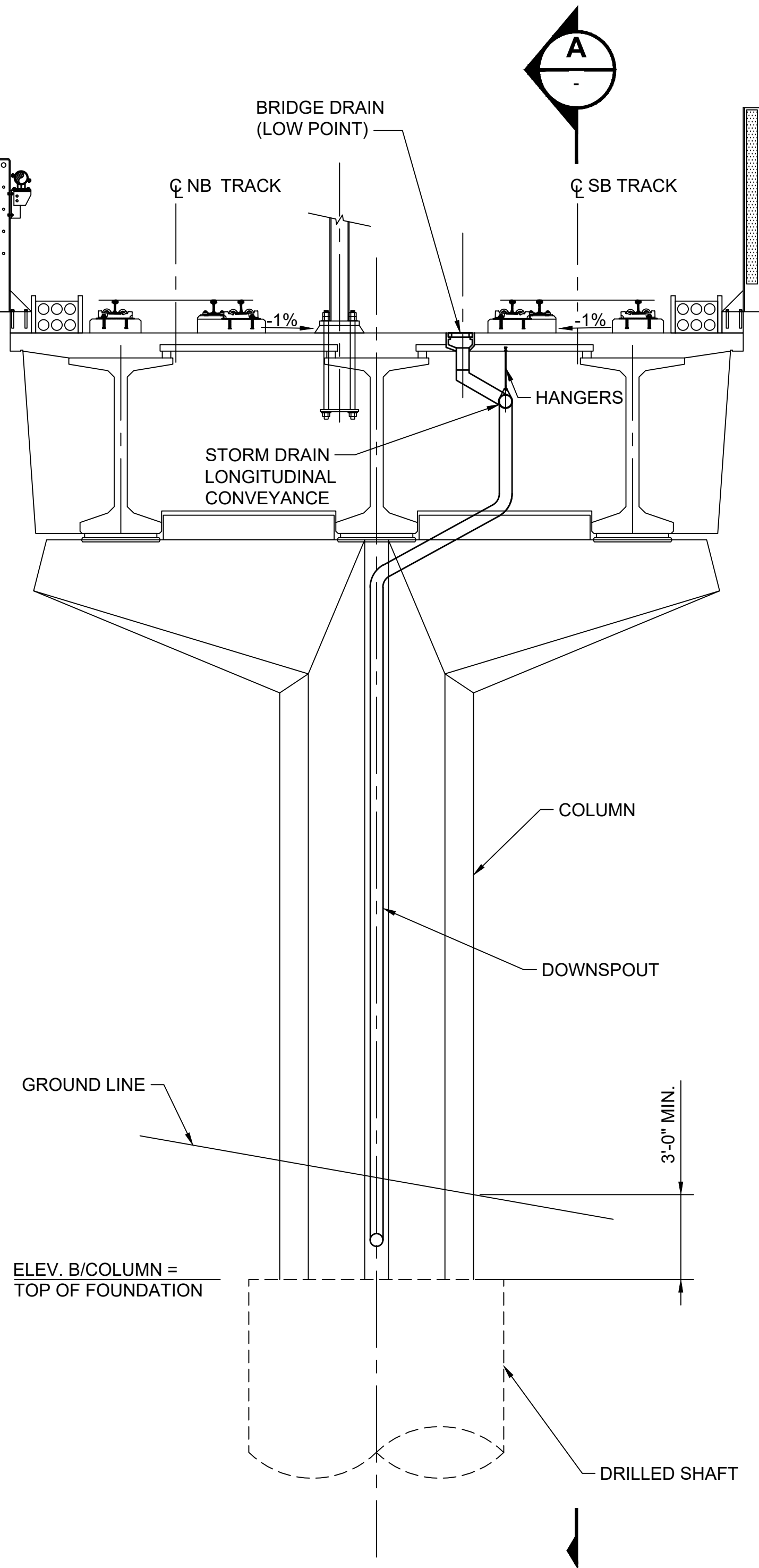
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FILENAME:
OMFS-STD-SDD001
CONTRACT No.:
AE-0030-17
DATE:
2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH

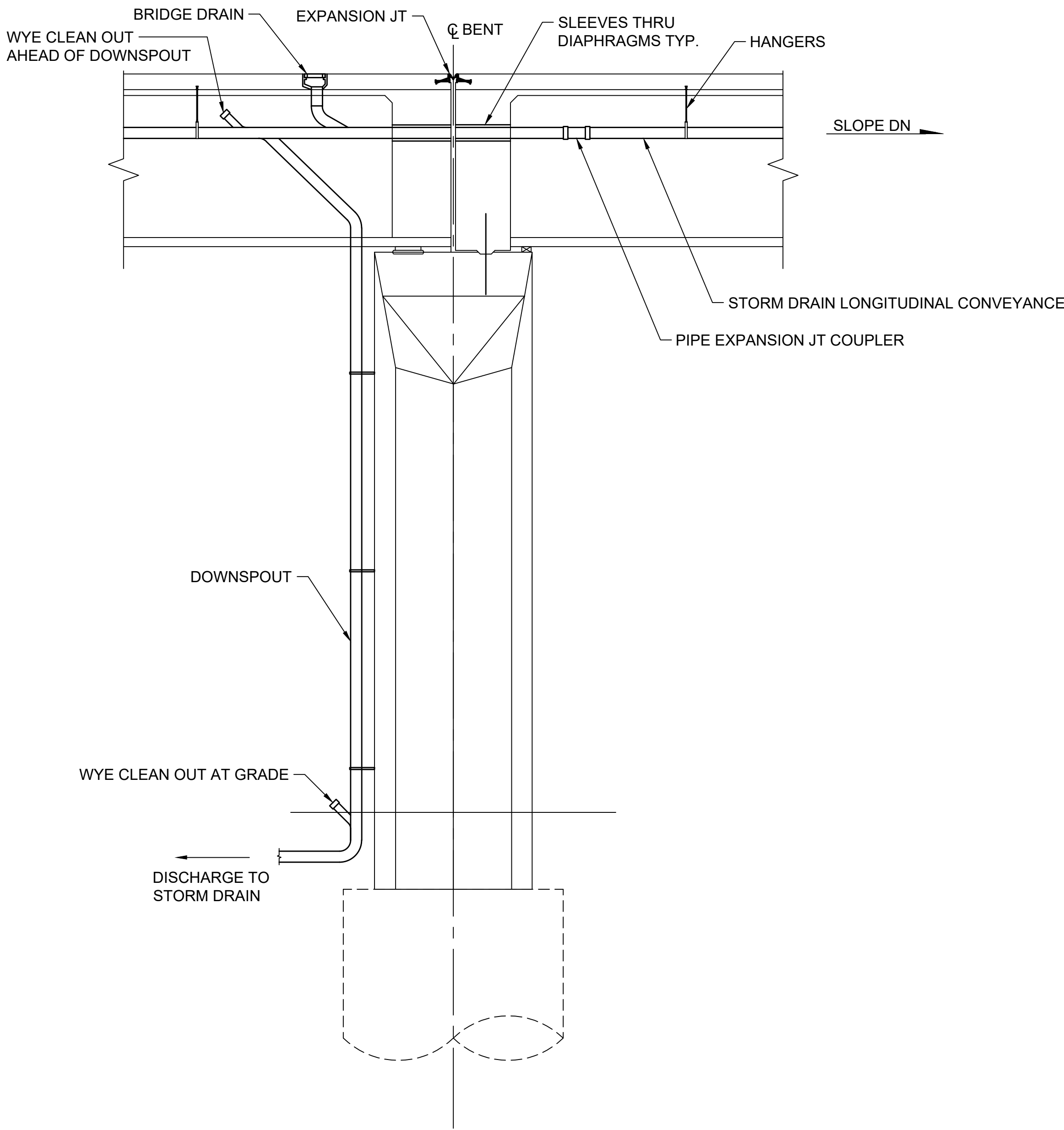
STRUCTURAL
AERIAL GUIDEWAY - SUPERSTRUCTURE
DRAINAGE DETAILS

DRAWING No.:
STD-SDD001
FACILITY ID:
S08
SHEET No.: REV:

NOT FOR
CONSTRUCTION



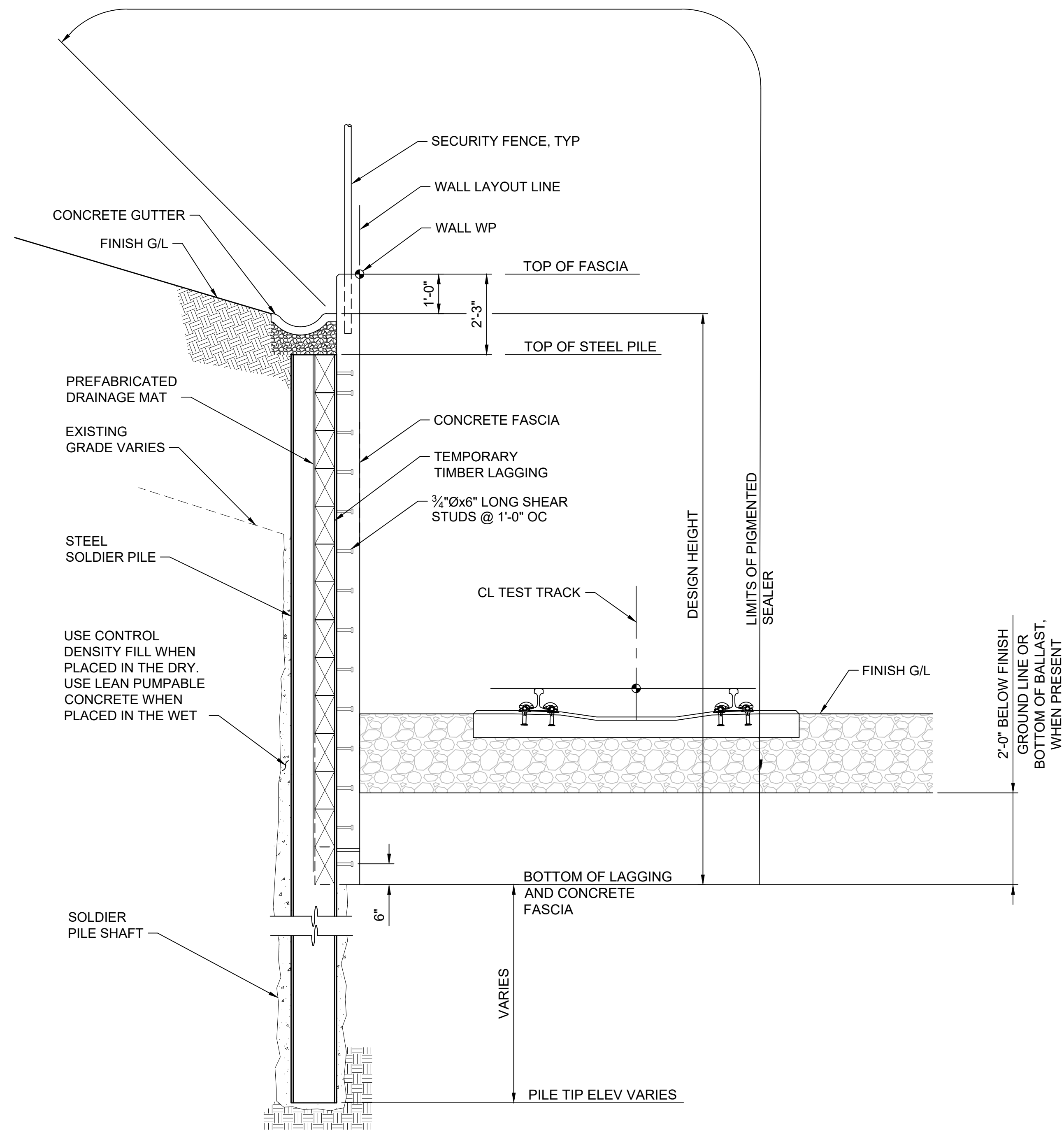
TYPICAL BRIDGE DRAINAGE
SCALE: 1/4" = 1'-0"



SECTION A-A
SCALE: 1/4" = 1'-0"

NOTES:

1. GUIDEWAY DRAINAGE DETAILS SHOWN ARE FIGURATIVE. SEE DRAINAGE DWGS FOR MORE INFORMATION.
2. NUMBER, SIZE, AND LOCATION OF DRAINS TO BE DETERMINED IN FINAL DESIGN.
3. SEE DRAINAGE DWGS FOR CONCEPTUAL LOCATION OF DOWNSPOUTS AND CONVEYANCE PIPE LAYOUTS.



CUT WALL L7000 SECTION AT TEST TRACK
SCALE: 1/2" = 1'-0"

NOT FOR
CONSTRUCTION

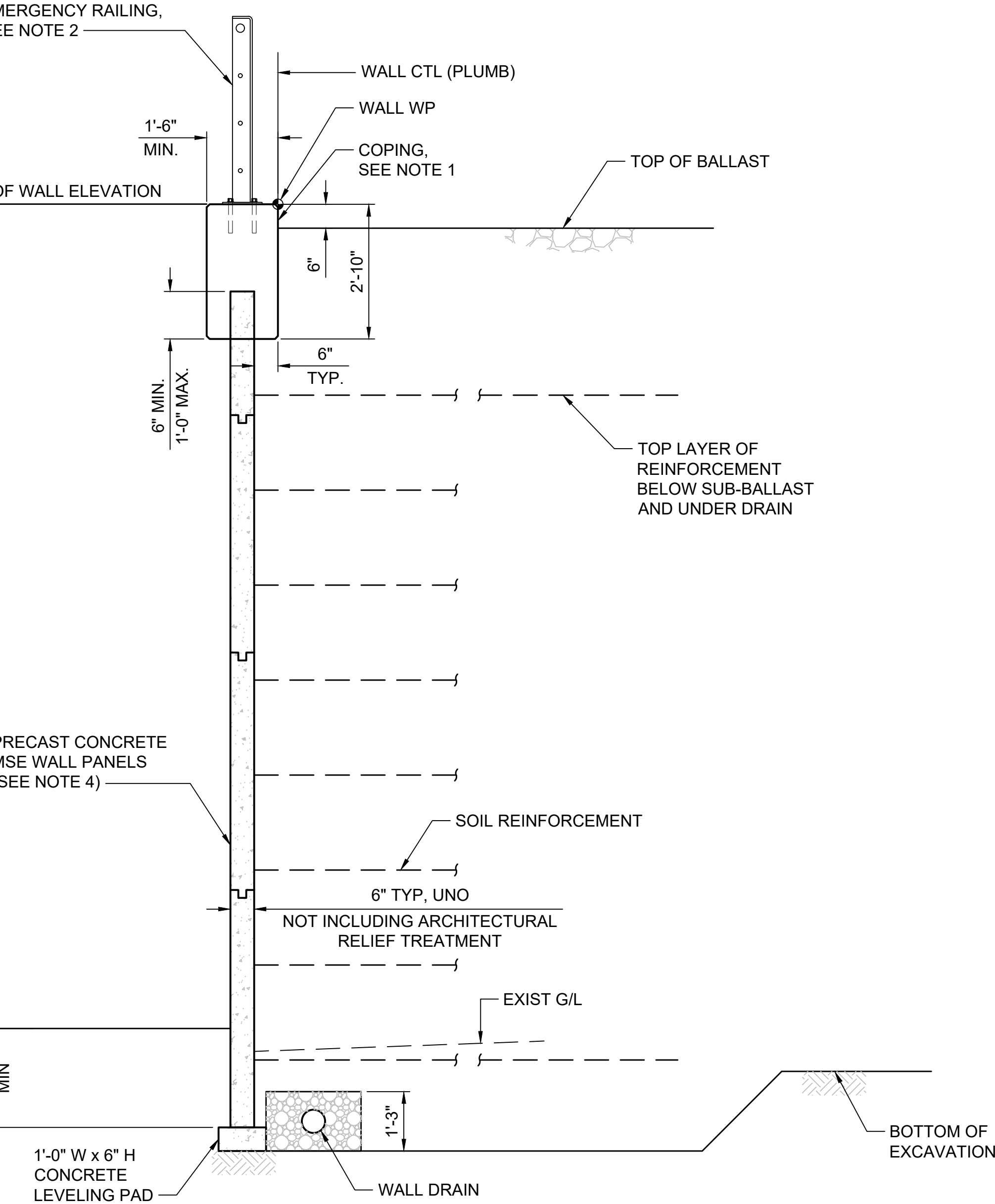
Refer to the plan set COVER drawing
for disclaimers regarding this drawing.

REFERENCE CONCEPT DRAWINGS						AHJ:		PACKAGE #					
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						DRAWN BY:		FILENAME:					
						CHECKED BY:		CONTRACT No.:					
						APPROVED BY:		DATE:					
No.	DATE	DSN	CHK	APP	REVISION	B. ROGERS				DRAWING No.:			
						A. VALENCIA				STD-SWX001			
						J. MERTH				FACILITY ID:			
						B. HARRIS				S08			
										SHEET No.:			
										REV:			

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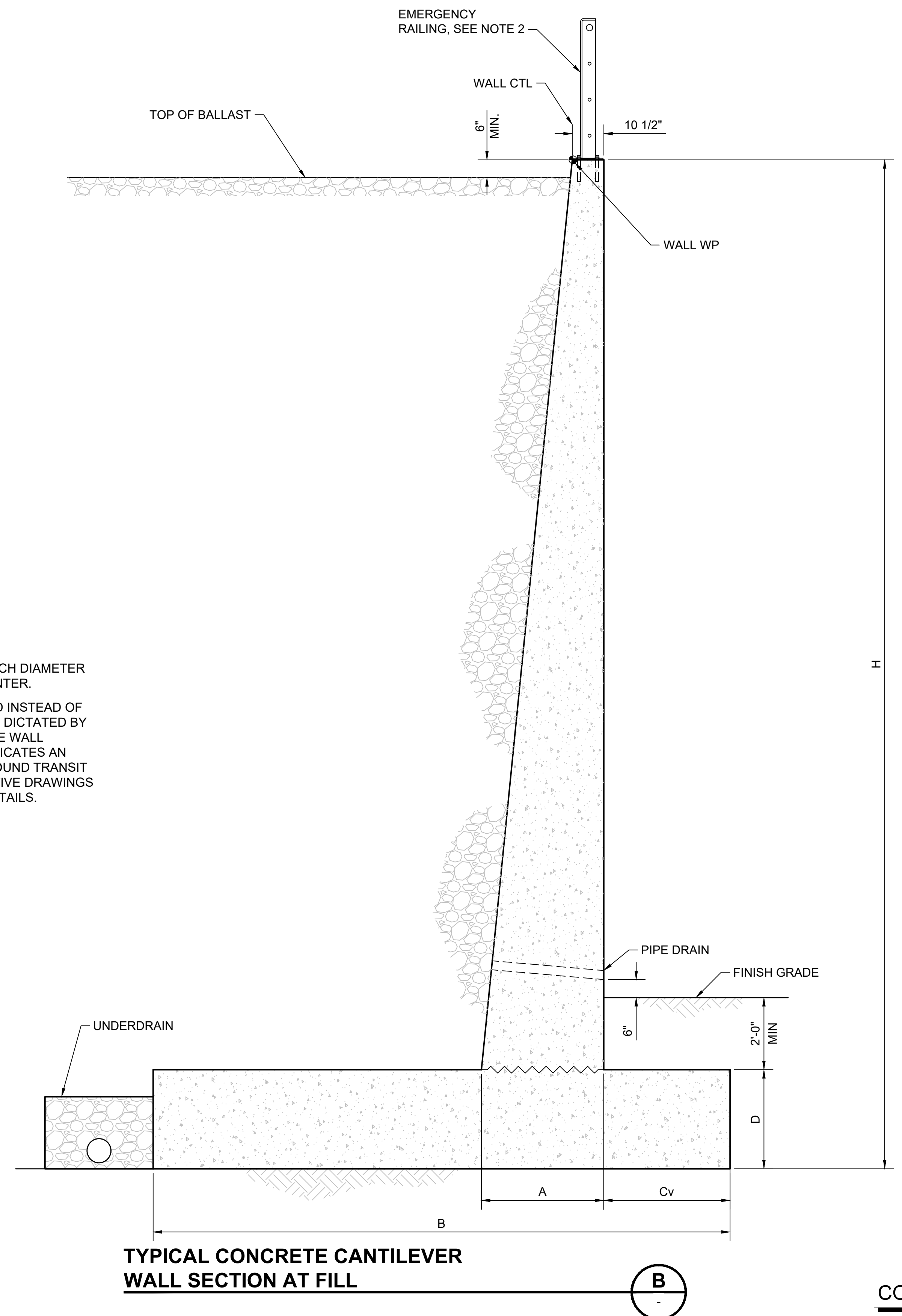
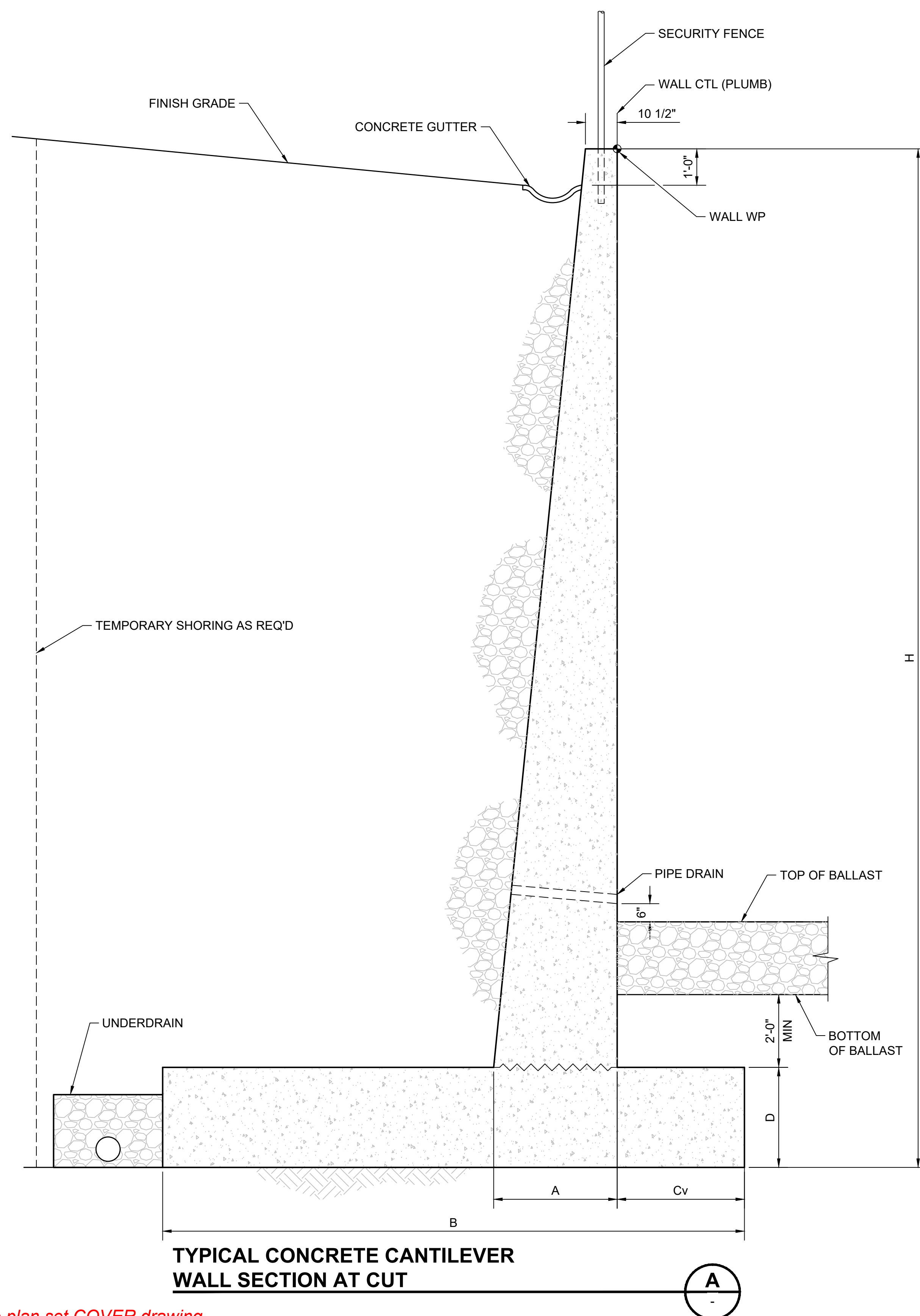
Refer to the plan set COVER drawing
for disclaimers regarding this drawing.

for disclaimers regarding this drawing.										AHJ:										PACKAGE #																													
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										DRAWN BY: A. VALENCIA																														FACILITY ID: S08									
										CHECKED BY: P. LI																														SHEET No.: REV:									
										APPROVED BY: B. HARRIS																																							
No.	DATE	DSN	CHK	APP	REVISION	SUBMITTED BY: PABLO LOPEZ-HILFIKER										DATE: 2/27/2024					REVIEWED BY:					DATE:																							



- NOTES:
- FOR ACOUSTIC BARRIER OVER MSE WALL DETAIL, SEE DWG STD-SWD007. SEE NOISE WALL SCHEDULE ON DRAWING STD-SWS001 FOR ACOUSTIC BARRIER LOCATIONS.
 - EMERGENCY RAILING SHOWN. REFER TO SOUND TRANSIT CIVIL AND STRUCTURAL DIRECTIVE DRAWINGS.
 - WHERE SECURITY FENCE OCCURS INSTEAD, SEE DWG STD-SYD002.
 - WHERE MSE WALL PANEL TOTAL HEIGHT LESS THAN 6', USE CAST-IN-PLACE CONCRETE WALL DETAIL. SEE DWG STD-SWX004.

NOT FOR
CONSTRUCTION



NOTES:

1. WEEP HOLES SHALL BE 3-INCH DIAMETER PVC PIPE AT 8-FOOT ON CENTER.
2. SECURITY FENCE REQUIRED INSTEAD OF EMERGENCY RAILING WHEN DICTATED BY WALL HEIGHT. WHEN NOISE WALL SCHEDULE STD-SWS001 INDICATES AN ACOUSTIC BARRIER, SEE SOUND TRANSIT CIVIL / STRUCTURAL DIRECTIVE DRAWINGS FOR ACOUSTIC BARRIER DETAILS.

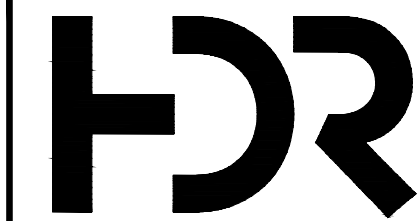
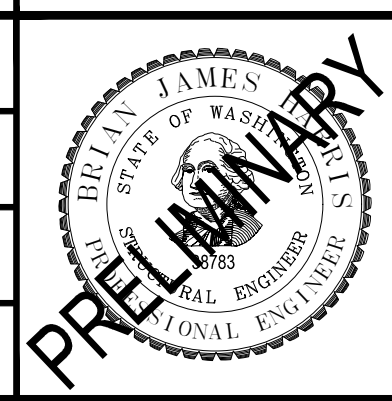
NOT FOR
CONSTRUCTION

02/25/24 | 11:50 PM | VALENALV
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*Refer to the plan set COVER drawing
for disclaimers regarding this drawing.*

REFERENCE CONCEPT DRAWINGS					
No.	DATE	DSN	CHK	APP	REVISION

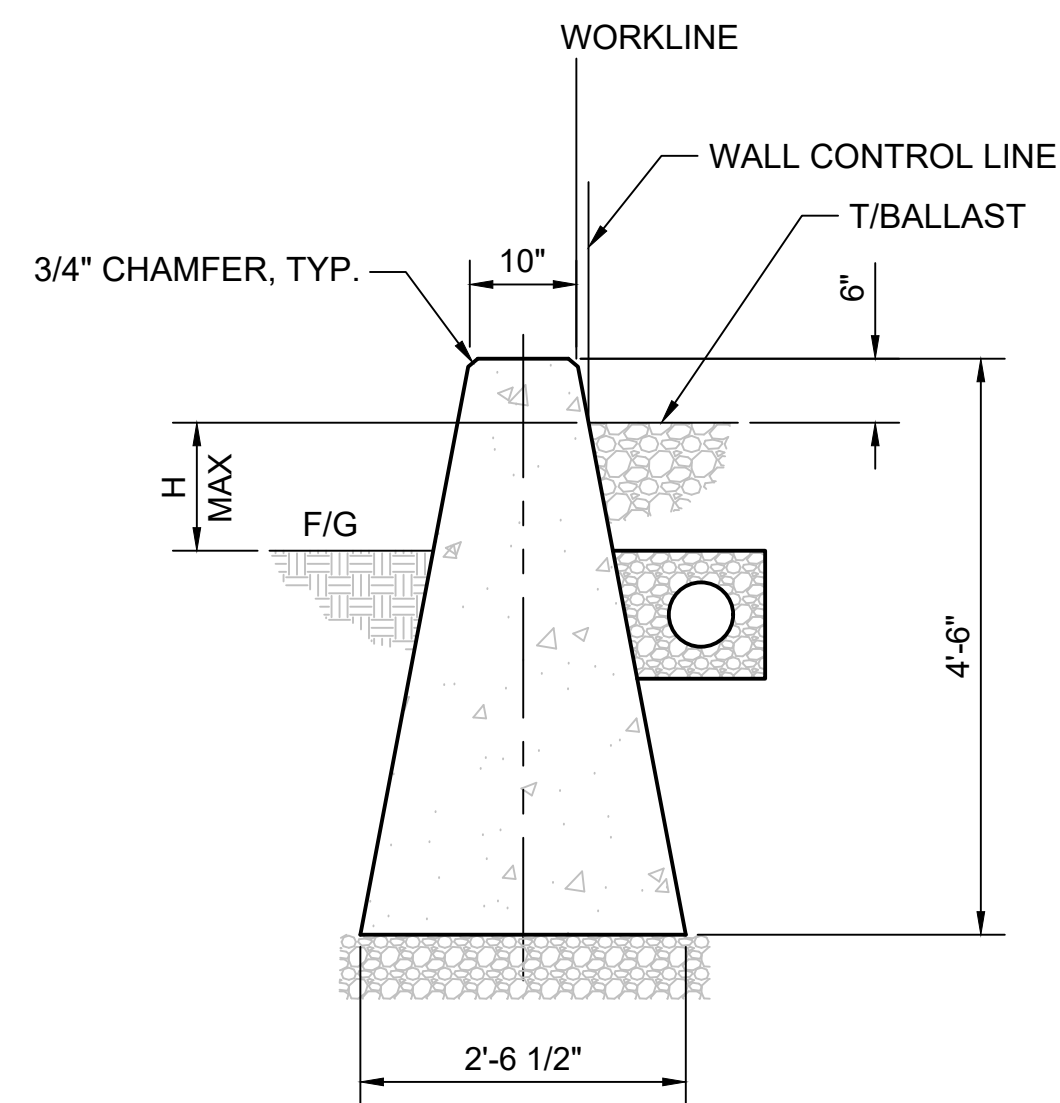
DESIGNED BY:	B. HARRIS
DRAWN BY:	A. VALENCIA
CHECKED BY:	P. LI
APPROVED BY:	B. HARRIS



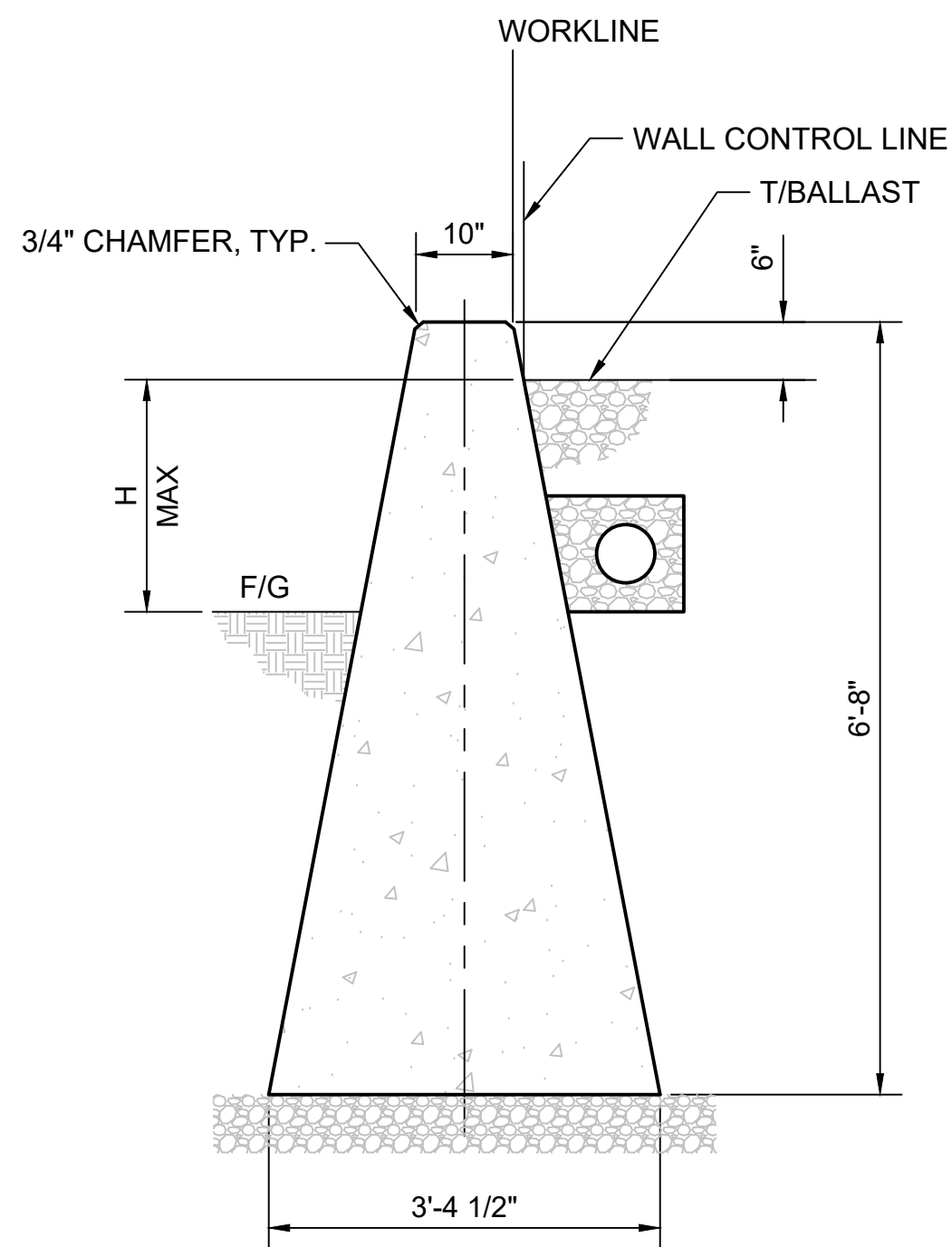
SUBMITTED BY:	DATE:	REVIEWED BY:
PABLO LOPEZ-HILFIKER	2/27/2024	



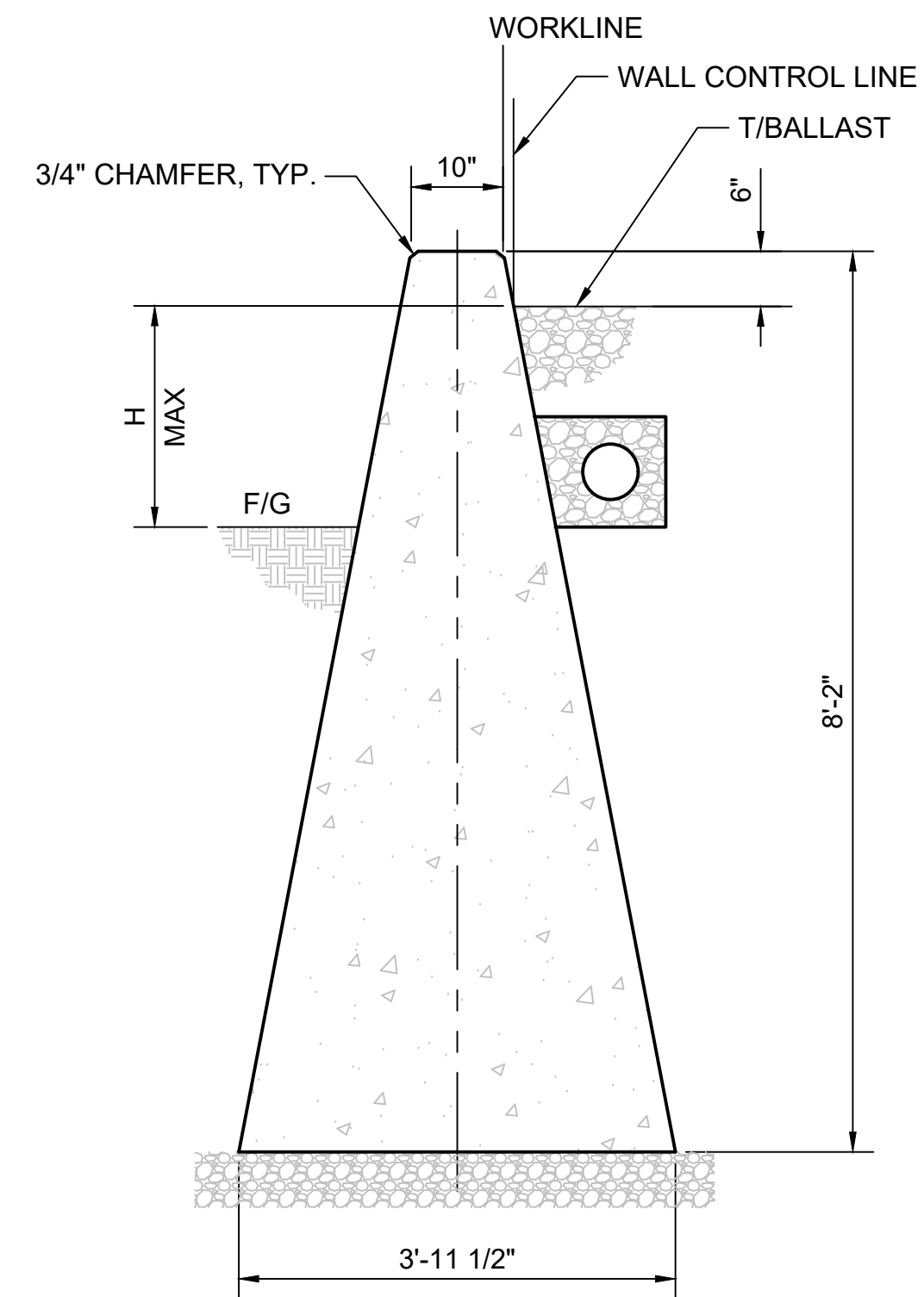
PACKAGE #			
SCALE:	SOUND TRANSIT PRELIMINARY ENGINEERING PLANS OPERATIONS & MAINTENANCE FACILITY SOUTH STRUCTURAL GUIDEWAY RETAINING WALL TYPICAL CONCRETE CANTILEVER WALL		DRAWING No.:
FILENAME:			STD-SWX004
OMFS-STD-SWX004			FACILITY ID:
CONTRACT No.:			S08
AE-0030-17			SHEET No.:
DATE:			
2/27/2024			



BALLAST WALL - TYPE A A



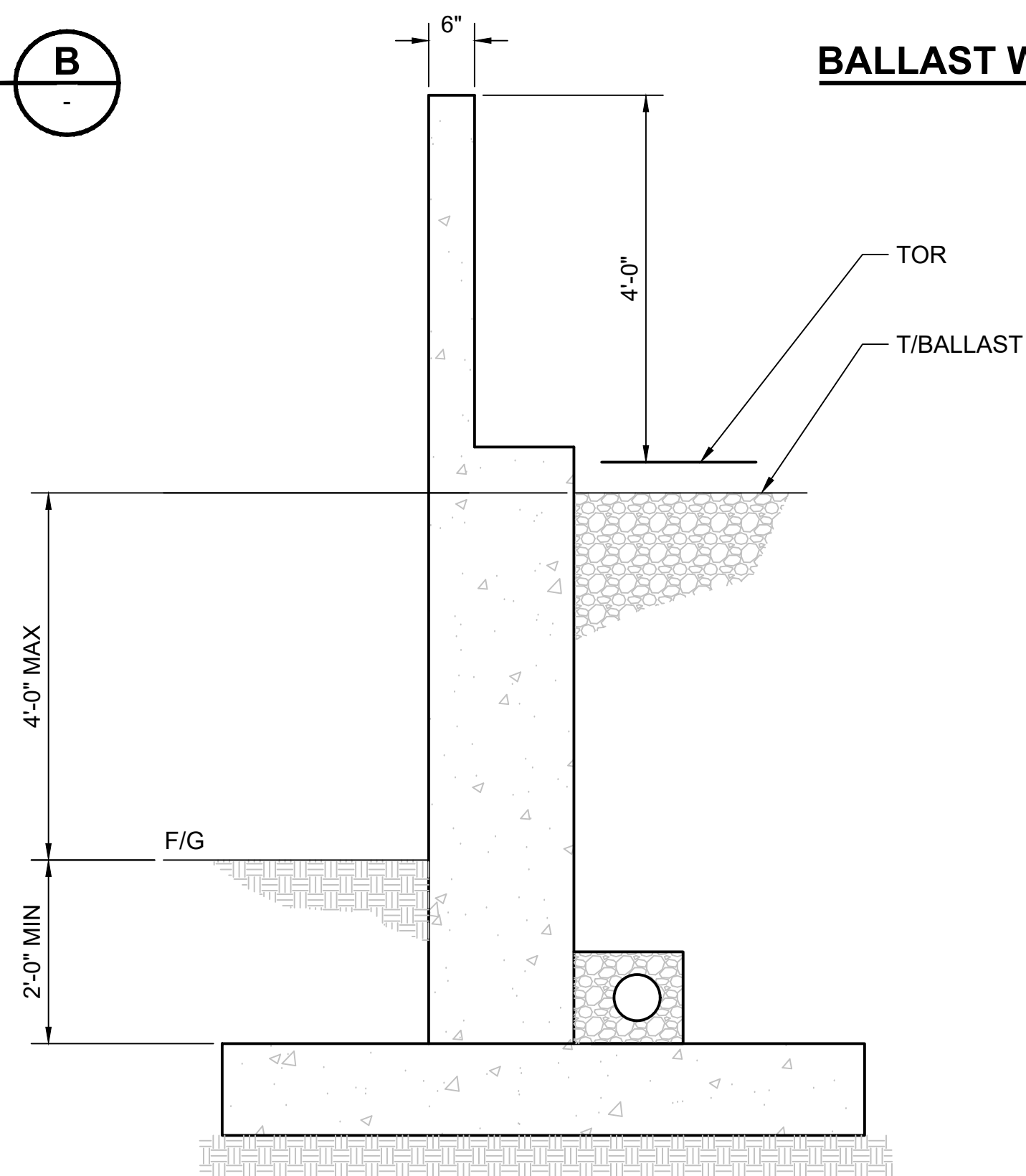
BALLAST WALL - TYPE B **B**



BALLAST WALL - TYPE C C

H (MAX)			
WALL TYPE	A	B	C
	CIP	CIP	CIP
CUT ¹	N/A	2'-6"	4'-0"
FILL ²	1'-6"	2'-6"	4'-0"

1. CUT WALL ARE WHERE THE BALLAST IS NOT BEING RETAINED (BALLAST ON LOW SIDE).
2. FILL WALLS ARE WHERE THE BALLAST IS BEING RETAINED (BALLAST ON HIGH SIDE).
3. DETAILS SHOW FILL CONDITION. AT CUT CONDITION, H MAX IS MEASURED TO BOTTOM OF SUBBALLAST.



COMBINATION BALLAST WALL AND NOISE WALL

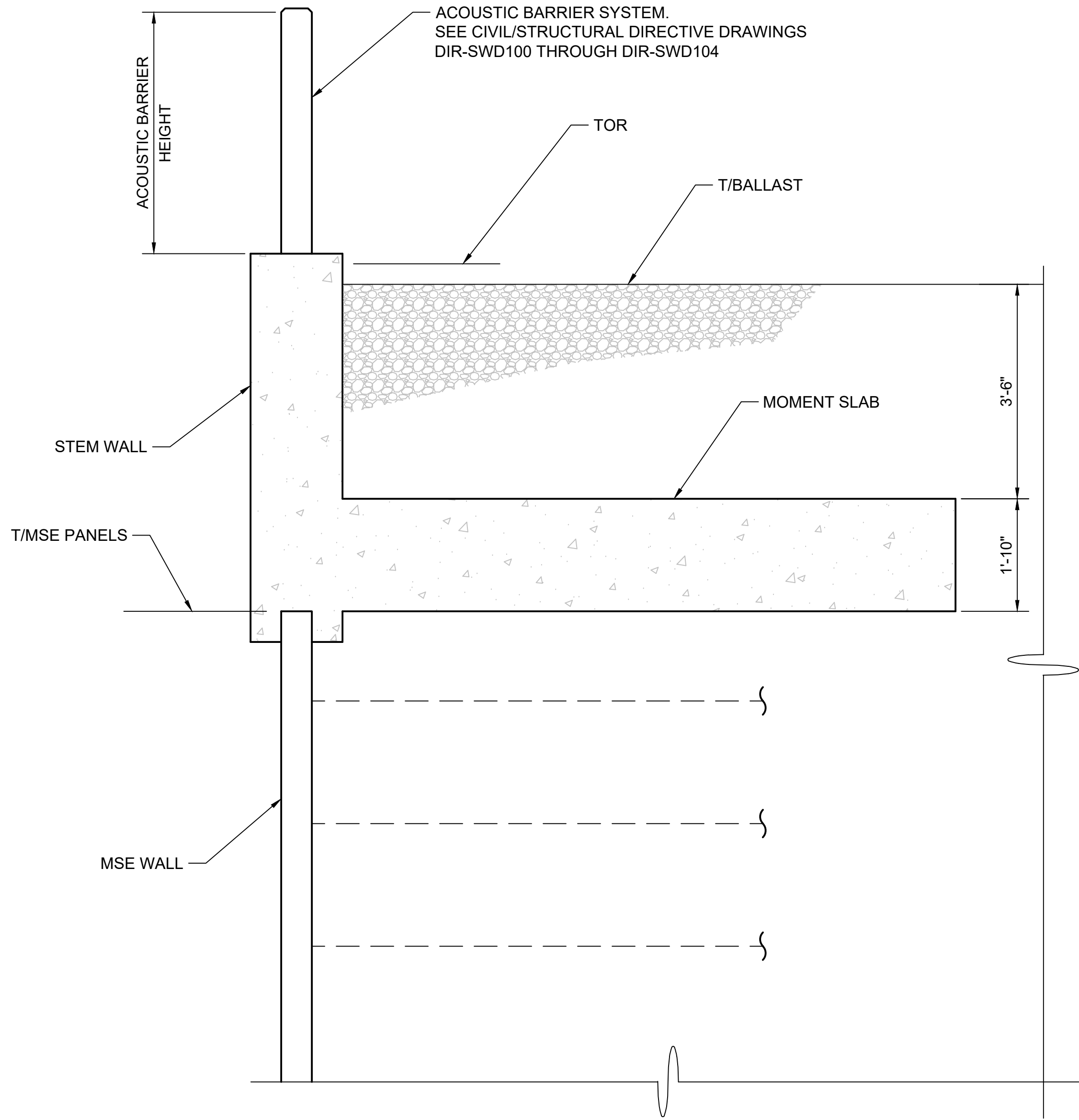
- NOTES:**
1. EMERGENCY RAILING OR FENCING ON TOP OF WALLS NOT SHOWN. SEE TRACK SECTIONS.
 2. TYPES A, B, AND C NOT FOR USE WITH NOISE WALLS.
 3. CONCRETE REINFORCING NOT SHOWN.

NOT FOR
CONSTRUCTION

*Refer to the plan set COVER drawing
for disclaimers regarding this drawing.*

REFERENCE CONCEPT DRAWINGS						DESIGNED BY:
						B. HARRIS
						DRAWN BY:
						A. VALENCIA
						CHECKED BY:
						P. LI
						APPROVED BY:
						B. HARRIS
No.	DATE	DSN	CHK	APP	REVISION	

AHJ:					PACKAGE #				
 PRELIMINARY				LINE IS 1" AT FULL SCALE	SCALE:		SOUND TRANSIT PRELIMINARY ENGINEERING PLANS OPERATIONS & MAINTENANCE FACILITY SOUTH STRUCTURAL GUIDEWAY RETAINING WALL TYPICAL BALLAST WALLS	DRAWING No.: STD-SWD001	
					FILENAME: OMFS-STD-SWD001			FACILITY ID: S08	
					CONTRACT No.: AE-0030-17			SHEET No.: REV:	
SUBMITTED BY: PABLO LOPEZ-HILFIKER		DATE: 2/27/2024		REVIEWED BY:		DATE: 2/27/2024			



**ACOUSTIC BARRIER SYSTEM
OVER MSE WALL**
SCALE: 1/2" = 1'-0"

NOT FOR
CONSTRUCTION

Refer to the plan set COVER drawing
for disclaimers regarding this drawing.

REFERENCE CONCEPT DRAWINGS						
No.	DATE	DSN	CHK	APP	REVISION	

DESIGNED BY:	B. HARRIS
DRAWN BY:	A. VALENCIA
CHECKED BY:	P. LI
APPROVED BY:	B. HARRIS



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SUBMITTED BY:
PABLO LOPEZ-HILFIKER

DATE:
2/27/2024

REVIEWED BY:

DATE:

PACKAGE #
SCALE:
FILENAME: OMFS-STD-SWD007
CONTRACT No.: AE-0030-17
DATE: 2/27/2024

SOUND TRANSIT
PRELIMINARY ENGINEERING PLANS
OPERATIONS & MAINTENANCE FACILITY SOUTH

STRUCTURAL
NOISE WALL
ACOUSTIC BARRIER OVER MSE WALL DETAILS

DRAWING No.: STD-SWD007
FACILITY ID: S08
SHEET No.: 0