PTS STANDARDS - 100 SERIES DRAWINGS STANDARDS FOR ROADWAY CONSTRUCTION APRIL 2022 EDITION – CHANGE NO. 2 – NOVEMBER 2023

PTS - 100 SERIES DRAWINGS

<u>PTS-113 – SHEET 1 OF 1</u>

REVISED SPELLING CORRECTION "TRANSVERSE". REPOSITIONED THE LOCATION OF THE NOTES.

<u>PTS-121 – SHEET 2 OF 2</u>

REVISED SECTION A-A BY REMOVING EXTRANEOUS REBAR INDICATIONS. REVISED THE PLAN VIEW TO INDICATE THE QUANTITY OF REBAR.

<u>PTS-122 – SHEET 1 OF 1</u>

ADDED CALLOUT TO "REMOVE ANY BRICK"

<u>PTS-124 – SHEET 1 OF 6</u>

REVISED CALLOUT FOR SUBBASE UNDER GUIDE RAIL TO REFERENCE NOTE 5. ADDED NOTE 5 "REFER TO PTS-130 GUIDE RAIL INSTALLATION – FILL CONDITION".

<u>PTS-124 – SHEET 5 OF 6</u>

DELETED NOTE ABOUT PEDESTAL.

<u>PTS-130 – SHEET 1 OF 3</u>

REVISED CALLOUT FOR SUBBASE UNDER GUIDE RAIL TO INDICATE "DEPTH, 4" MIN.". EXTENDED THE LIMITS OF THE SHOULDER BACKUP IN THE PLAN AND SECTION VIEW. ADDED SUBGRADE INDICATION IN BOTH THE SECTION A-A AND B-B VIEWS.

<u>PTS-130 – SHEET 2 OF 3</u>

ADDED TEXT TO NOTE 4. REVISED PLAN VIEW DETAILS TO ALIGN RAIL WITH STRUCTURE.

PTS-140 – SHEET 2 OF 3

REVISED NOTE FOR SLOTTED PLATE CONNECTION AND INDICATED SLOT DETAILS.

<u>PTS-140 – SHEET 3 OF 3</u>

REVISED TRANSITION PIECE LENGTH FROM VARIABLE TO 12'. REORGANIZED SECTION AND PROFILE VIEWS TO ALIGN HORIZONTALLY. ADDED TEXT CALLOUT TO THE PROFILE VIEW - 2" ELEVATION CHANGE / STEP BETWEEN PIECES AND "SAWCUT THROUGH PAVEMENT TO ALLOW STEEL PLATE CONNECTION BETEEN SECTIONS". ADDED NOTES 10 AND 11.

<u>PTS-144 – SHEETS 1 OF 1</u>

ADDED A PROFILE VIEW. REVISED THE PLAN VIEW TO INDICATE THE REFERENCE SECTION LOCATIONS. ALIGNED SECTION VIEWS VERTICALLY AND ADDED A PATTERN TO THE SUBBASE LAYER.

<u>PTS-145 – SHEET 1 OF 2</u>

SECTION X-X – REVISED DIMENSION OFFSET FOR ANCHORS. ADDED THE USE OF A PACHOMETER TO THE NOTES.

CALLOUT FOR "BACKFILL WITH NO. 57 STONE" ADDED "TO WITHIN 6" OF THE TOP OF THE TRANSITION".

<u>PTS-147 – SHEET 1 OF 1</u>

REVISED THE PLAN VIEW AND REPOSITIONED THE SECTION A-A LOCATION AND REVISED THE SECTION A-A WIDTH TO REFLECT THE NEW LOCATION. REORDERED SHEET NOTES AND ADDED THE USE OF A PACHOMETER TO NOTE 12.

<u>PTS-148 – SHEET 1 OF 2</u>

REVISED THE PLAN VIEW AND REPOSITIONED THE SECTION A-A LOCATION. REORDERED SHEET NOTES AND ADDED THE USE OF A PACHOMETER TO NOTE 13.

<u>PTS-148 – SHEET 2 OF 2</u>

REVISED THE SECTION D-D WIDTH TO REFLECT THE NEW LOCATION.

<u>PTS-170 – NEW SHEETS 1 & 2 OF 2</u>

REVISED THE SHEET TITLE TO "ROUND LID JUNCTION BOX DETAILS".

PENNSYLVANIA TURNPIKE COMMISSION **INDEX OF STANDARDS FOR ROADWAY CONSTRUCTION**

STANDARD DRAWING
NUMBER

EARTHWORK

PTS-100	(2 SHEETS)	APRIL 2022	WIDENED EMBANKMENT DETAILS

DRAWING

DATE

PAVEMENTS

	PTS-110	APRIL 2022	SLAB STABILIZAT
	PTS-111	APRIL 2022	RECESSED BRID
	PTS-112	APRIL 2022	PAVING JOINT AI
**	PTS-113	NOVEMBER 2023	PAVEMENT PATC

DRAINAGE

	PTS-120		APRIL 2022	TYPE RS INLET
**	PTS-121	(2 SHEETS)	NOVEMBER 2023	MEDIAN INLET
**	PTS-122		NOVEMBER 2023	CAPPING OF M
	PTS-123		APRIL 2022	6" PAVEMENT B
**	PTS-124	(6 SHEETS)	NOVEMBER 2023	STANDARD DRA
	PTS-125		APRIL 2022	INLET PLACEME

GUIDE RAIL

**	PTS-130	(3 SHEETS)	NOVEMBER 2023	STRONG POST GU
	110100	(0011210)		

CONCRETE BARRIER

**	PTS-140	(3 SHEETS)	NOVEMBER 2023	CONCRETE MED
*	PTS-142	(5 SHEETS)	SEPTEMBER 2022	SINGLE FACE CO
**	PTS-144		NOVEMBER 2023	SINGLE FACE CO
**	PTS-145	(2 SHEETS)	NOVEMBER 2023	ABUTMENT TRAN
*	PTS-146	(2 SHEETS)	SEPTEMBER 2022	TRANSITION, SIN PRECAST SLOTT
**	PTS-147		NOVEMBER 2023	PIER TRANSITIO
**	PTS-148	(2 SHEETS)	NOVEMBER 2023	MONOPIPE CAIS

FENCE

PTS-150	(2 SHEETS)	APRIL 2022	CANTILEVER SLI
PTS-154		APRIL 2022	ROCK FALL FENC

COMMUNICATIONS INFRASTRUCTURE

** PTS-170 (2 SHEETS)

NOVEMBER 2023

ROUND LID JUNCTION BOX DETAILS

DESCRIPTION

STANDARD DRAWING NUMBER

DRAWING DATE

ROADSIDE DEVELOPMENT

APRIL 2022 PTS-180 (3 SHEETS) APRIL 2022 PTS-181

ATION RIDGE APPROACH SLAB AND SNAP PLACEMENT TCHING

CUSTOMER SAFETY DEVICES

PTS-191 PTS-192

APRIL 2022 APRIL 2022

ETS AND GRATE CONSTRUCTION & REPLACEMENT MEDIAN INLETS BASE DRAIN AND MEDIAN BASE DRAIN RAINAGE DETAILS MENT

UIDE RAIL INSTALLATION

EDIAN BARRIER TRANSITION SECTIONS CONCRETE BARRIER CONCRETE BARRIER BURIED IN CUT SLOPE ANSITION PIECES SINGLE FACE CONCRETE BARRIER, F-SHAPE, TTED PLATE TO THRIE-BEAM GUIDE RAIL ION PIECE ISSON TRANSITION PIECE

LIDING ACCESS GATE ICE

DESCRIPTION

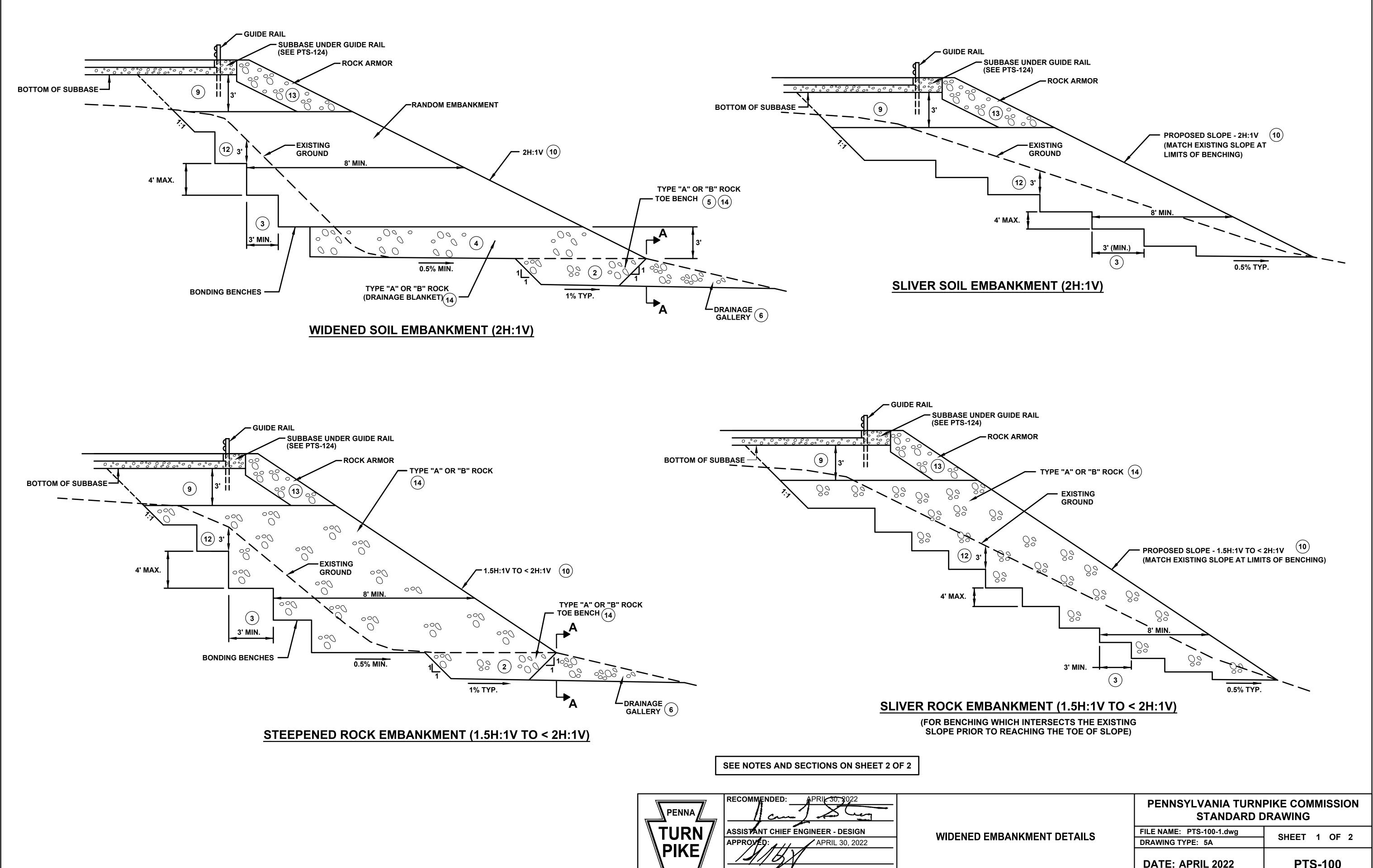
ROADSIDE DEVELOPMENT WIDE AREAS

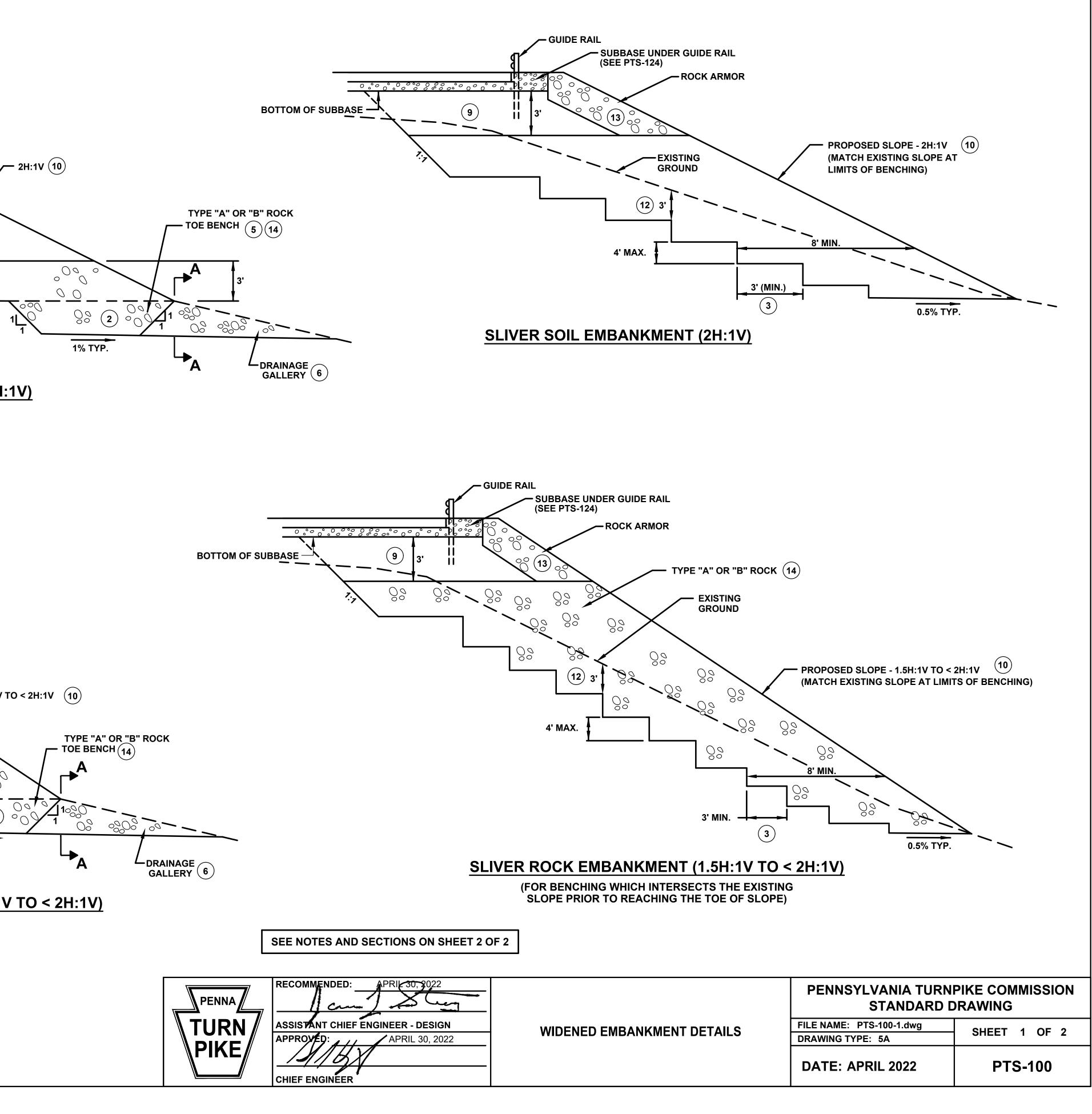
SNOWPLOWABLE RAISED PAVEMENT MARKERS (SRPM) SONIC NAP ALERT PATTERN (SNAP)

> ****** CHANGE NO. 2, EFFECTIVE NOVEMBER 2023 * CHANGE NO. 1, EFFECTIVE SEPTEMBER 2022

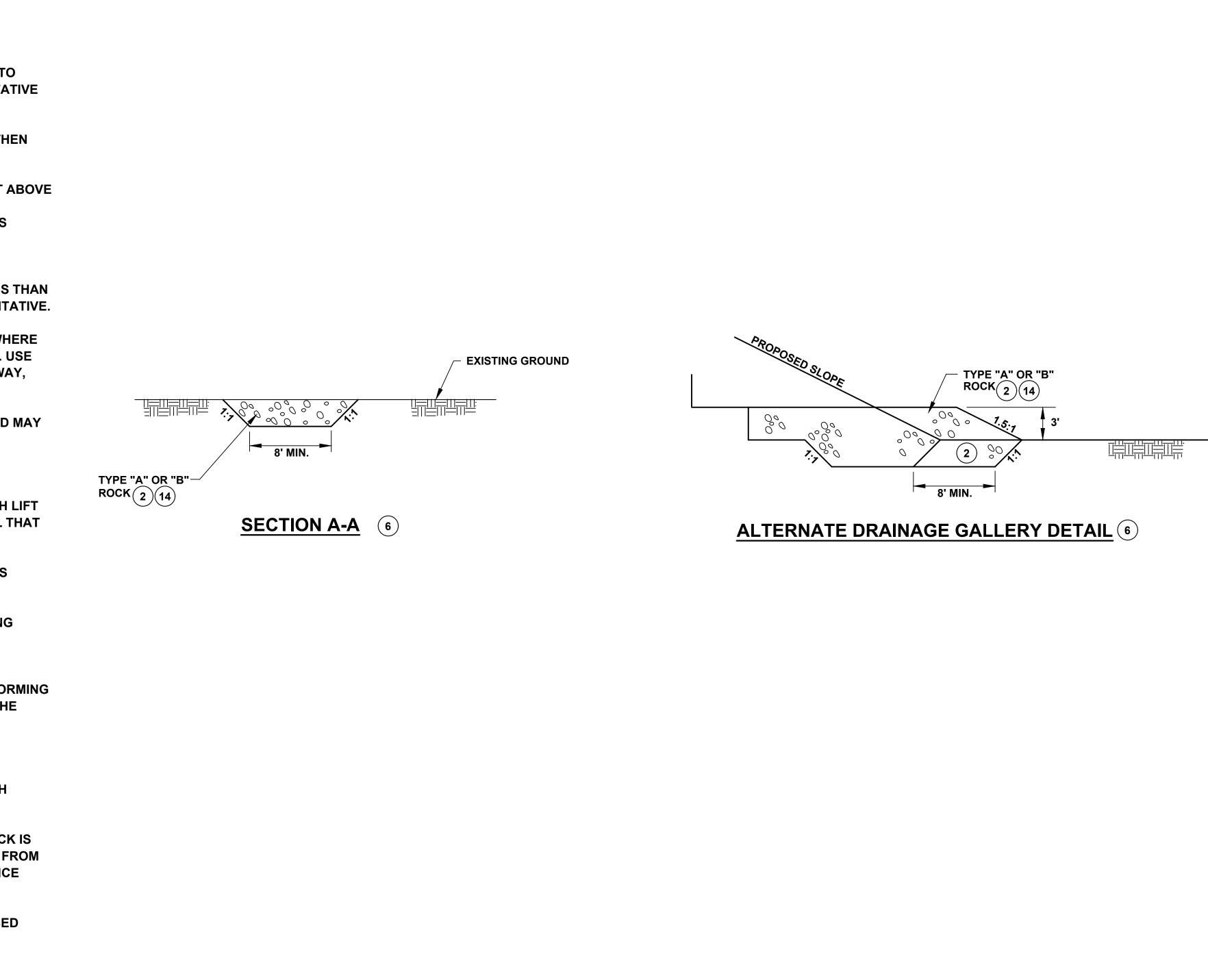


APRIL 2022 EDITION



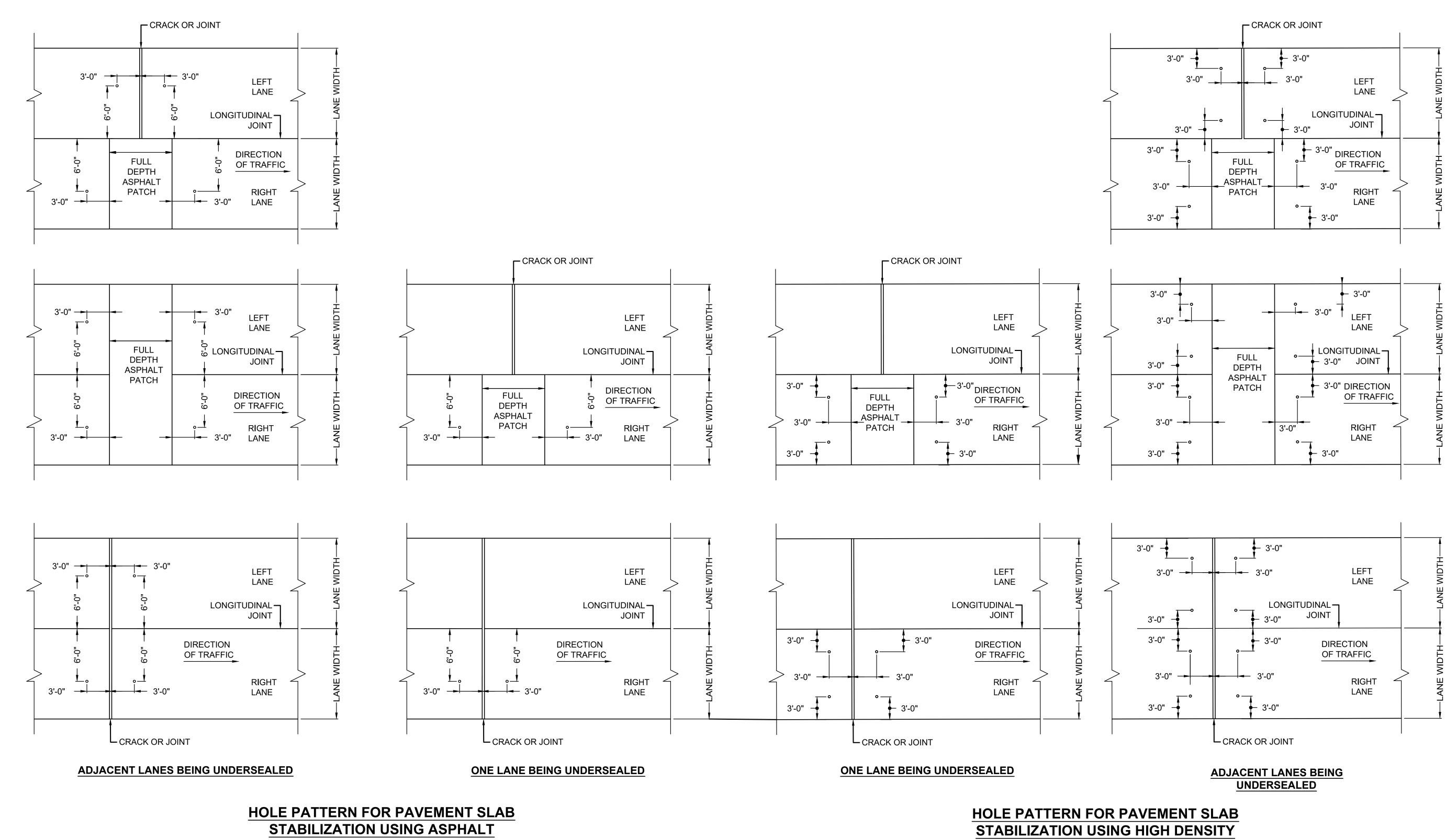


- SEE SECTION 206 FOR ROCK TYPE DEFINITIONS (TYPE A, TYPE B, ETC.). 1.
- 2. EXCAVATE TOE BENCH AND DRAINAGE GALLERY EITHER A MINIMUM OF 3 FEET, OR TO COMPETENT SOIL AS DIRECTED BY THE COMMISSION'S GEOTECHNICAL REPRESENTATIVE AND AS SHOWN ON THE PLAN DRAWINGS AND CROSS SECTIONS.
- IF DISTANCE BETWEEN NEW AND EXISTING EMBANKMENT SLOPE EXCEEDS 8 FEET THEN 3. BONDING BENCHES SHOULD BE 3 FEET MAX. IN WIDTH.
- TYPE "A" OR "B" ROCK DRAINAGE BLANKET WILL BE PLACED A MAXIMUM OF 3 FEET ABOVE 4. TOE OF SLOPE, AS SHOWN ON THE CROSS SECTIONS AND/OR AS DIRECTED BY THE COMMISSION'S GEOTECHNICAL REPRESENTATIVE. (PLACE TYPE "A" OR "B" ROCK AS DESCRIBED IN SECTION 206 UNLESS OTHERWISE APPROVED BY THE COMMISSION'S **GEOTECHNICAL REPRESENTATIVE.**
- ROCK MAY BE ELIMINATED FROM THE TOE BENCH WHEN THE HEIGHT OF FILL IS LESS THAN 5. 10 FEET. SUBJECT TO APPROVAL BY THE COMMISSION'S GEOTECHNICAL REPRESENTATIVE.
- 6. LOCATE DRAINAGE GALLERIES AT LOW POINTS OR 300 FEET CENTER TO CENTER, WHERE **RIGHT-OF-WAY IS AVAILABLE. DAYLIGHT ON EXISTING SLOPE WHENEVER POSSIBLE. USE** ALTERNATE GALLERY DETAIL WHERE CONSTRAINTS EXIST (EX. LIMITED RIGHT-OF-WAY, **ENVIRONMENTAL CONCERNS, ETC.).**
- THESE DETAILS HAVE BEEN PROVIDED AS A GUIDE FOR BENCHING OPERATIONS AND MAY 7. **BE MODIFIED TO MEET EXISTING CONDITIONS.**
- WASTE ANY UNSUITABLE MATERIAL IN ACCORDANCE WITH SECTION 105.14. 8
- PLACE THE TOP 3 FEET OF NEW EMBANKMENT IN LAYERS NOT EXCEEDING AN 8 INCH LIFT 9. AT 100% COMPACTION ACCORDING TO SECTION 206.3 (B). DO NOT PLACE MATERIAL THAT WILL IMPEDE GUIDE RAIL INSTALLATION.
- 10. A DETAILED SLOPE STABILITY ANALYSIS MAY BE REQUESTED BY THE COMMISSION'S **GEOTECHNICAL REPRESENTATIVE.**
- 11. ALTERNATIVES TO "STEEPENED ROCK EMBANKMENTS" (GEOSYNTHETICS, RETAINING STRUCTURES, ETC.) MUST BE APPROVED BY THE COMMISSION'S GEOTECHNICAL **REPRESENTATIVE AND ACCOMPANIED BY A DETAILED SLOPE STABILITY ANALYSIS.**
- 12. REMOVE AN ADDITIONAL 3 FEET OF EXISTING EMBANKMENT MATERIAL WHEN PERFORMING BONDING BENCH CONSTRUCTION. THIS REQUIREMENT MAY BE ELIMINATED, WITH THE APPROVAL OF THE COMMISSION'S GEOTECHNICAL REPRESENTATIVE, WHERE CONSTRAINTS EXIST. CONSTRUCT BONDING BENCHES CONCURRENTLY WITH THE PLACEMENT OF EMBANKMENT MATERIAL.
- 13. PLACE ROCK ARMOR ON ALL FILL SLOPES 2H:1V OR STEEPER IN ACCORDANCE WITH PTS-124. EXTEND ROCK ARMOR TO THE TOP OF ROCK EMBANKMENT.
- 14. UNLESS OTHERWISE SHOWN ON THE CROSS-SECTIONS. IF SUFFICIENT TYPE "B" ROCK IS NOT AVAILABLE FROM ON-SITE SOURCES, USE EITHER TYPE "A" OR TYPE "B" ROCK FROM FOREIGN BORROW. ALL TYPE "B" ROCK FROM FOREIGN BORROW REQUIRES ADVANCE APPROVAL BY THE COMMISSION'S GEOTECHNICAL REPRESENTATIVE.
- 15. WHEN WITHIN 100 FEET OF STRUCTURES SEE CONTRACT DOCUMENTS FOR PROPOSED WIDENED EMBANKMENT SLOPE TREATMENT.
- 16. SLOPES STEEPER THAN 1.5H:1V ARE NOT ACCEPTABLE.



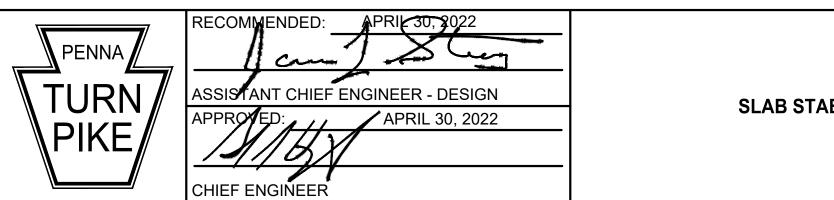
PENNA	RECOMMENDED: APRIL 30, \$022	
	ASSISTANT CHIEF ENGINEER - DESIGN APPROVED: APRIL 30, 2022	
VIKE	APRIL 30, 2022	
	CHIEF ENGINEER	

	PENNSYLVANIA TURNPIKE COMMISSION STANDARD DRAWING	
NKMENT DETAILS	FILE NAME: PTS-100-2.dwg	SHEET 2 OF 2
	DRAWING TYPE: 5A	
	DATE: APRIL 2022	PTS-100

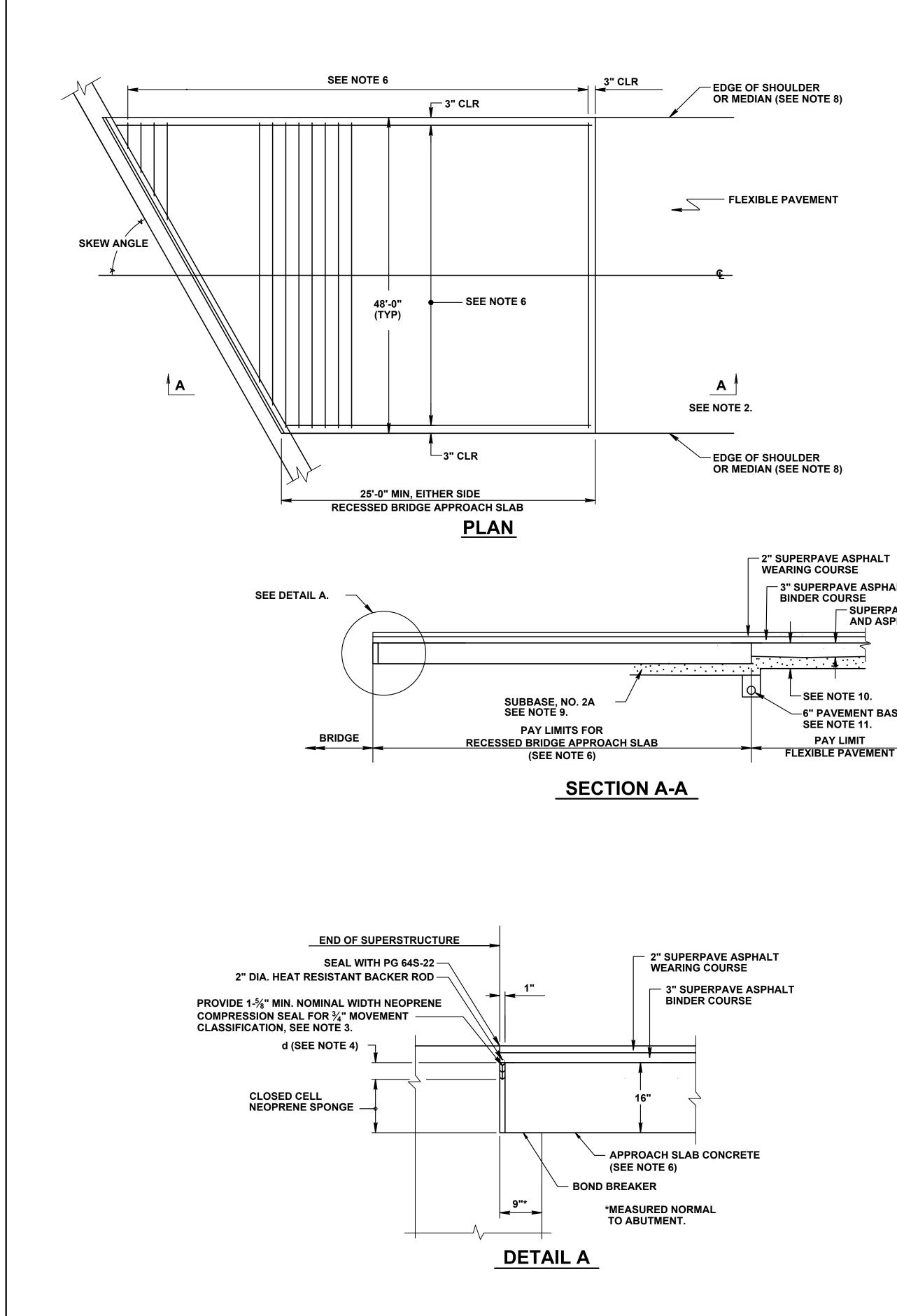


N.T.S.

POLYURETHANE N.T.S.

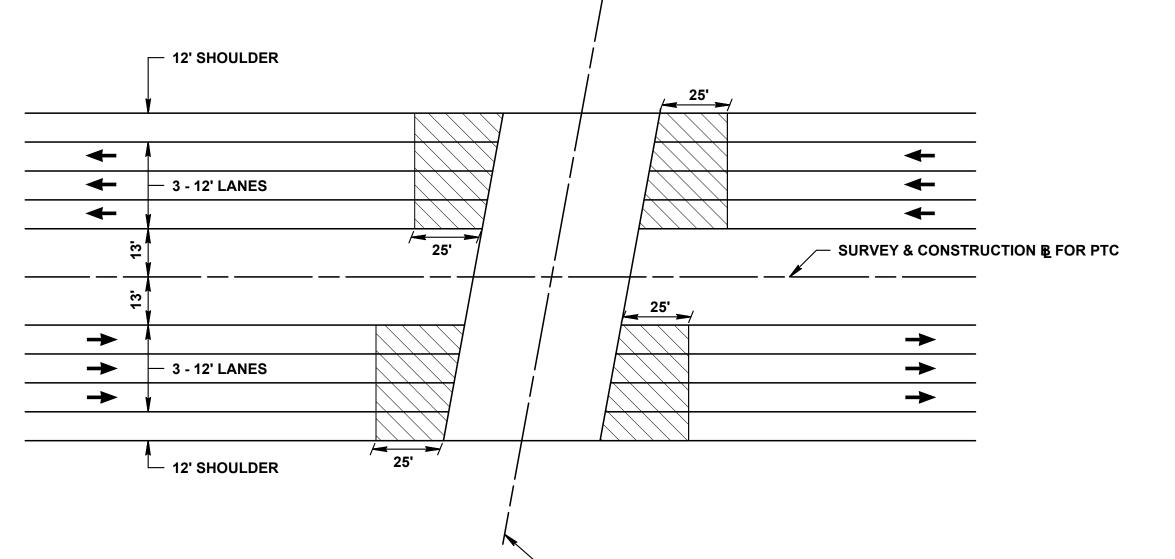


	PENNSYLVANIA TURNPIKE COMMISSION STANDARD DRAWING		
BILIZATION	FILE NAME: PTS-110.dwg DRAWING TYPE:	SHEET 1 OF 1	
	DATE: APRIL 2022	PTS-110	



RECESSED BRIDGE

PENNA	RECOMMENDED: APRIL 30, 8022	
TURN PIKE	ASSISTANT CHIEF ENGINEER - DESIGN APPROVED: APRIL 30, 2022 CHIEF ENGINEER	



BINDER COURSE SEE NOTE 10. -6" PAVEMENT BASE DRAIN

-2" SUPERPAVE ASPHALT WEARING COURSE - SUPERPAVE ASPHALT BASE COURSE AND ASPHALT TREATED BASE COURSE SEE NOTE 11.

<u>NOTES</u>

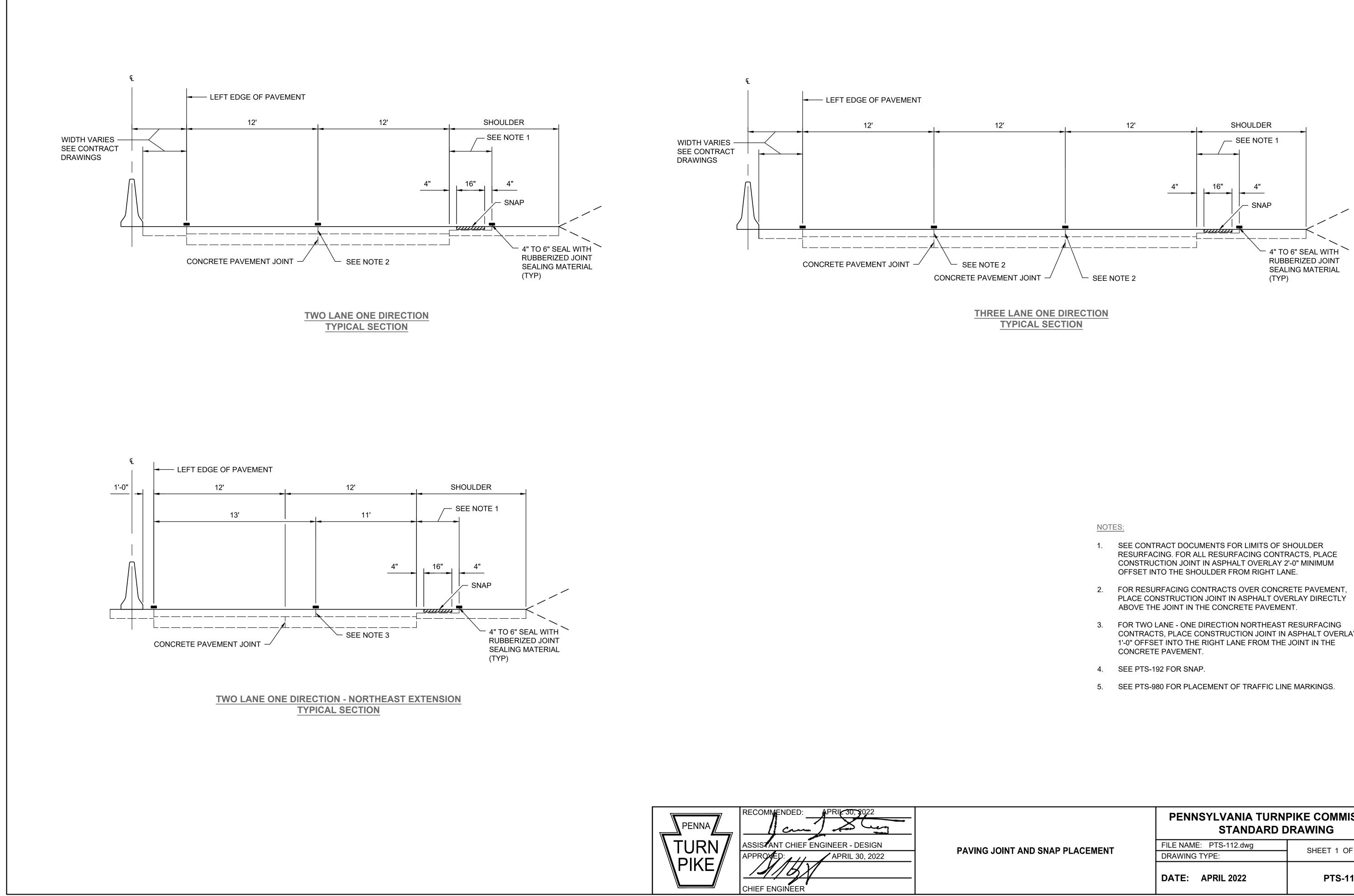
- 1. CONSTRUCT IN ACCORDANCE WITH THIS STANDARD DRAWING, AS PER RC-23M OR AS INDICATED ON THE STRUCTURE DRAWINGS.
- 2. WHEN CONSTRUCTION INVOLVES MORE THAN 2 LANES, CONNECT ADDITIONAL LANES REQUIRED TO STANDARD 2 LANE BRIDGE APPROACH SLAB USING TYPE L CONSTRUCTION JOINTS, AS SHOWN ON RC-20M, SHEET 2.
- 3. INSTALL NEOPRENE COMPRESSION SEALS TO A UNIFORM DEPTH WITH TOP OF THE SEAL FROM 1/4" TO 3/8" BELOW THE LEVEL OF THE PAVEMENT SURFACE. MAKE THE TOP EDGES OF THE CONTACT SURFACES ON BOTH SIDES OF THE SEAL AT THE SAME ELEVATION.
- 4. DETERMINE "d" BY ADDING 3/4" TO THE MAXIMUM COMPRESSED HEIGHT OF THE NEOPRENE COMPRESSION SEAL. (SEE MANUFACTURER'S INFORMATION.)
- 5. CONSTRUCT THE BRIDGE APPROACH SLAB AFTER THE BRIDGE DECK IS CONSTRUCTED.
- 6. PROVIDE REINFORCEMENT BARS, EPOXY COATED IN ACCORDANCE WITH SECTION 709.1 (c) AND AS PER RC-23M.
- 7. CONSTRUCT ALL CURBING WITHIN THE LIMITS OF THE RECESSED BRIDGE APPROACH SLAB AS BITUMINOUS CURB.
- 8. RECESSED BRIDGE APPROACH SLAB SHALL EXTEND ACROSS THE RIGHT SHOULDER AND TO THE EDGE OF THE MEDIAN.
- 9. AT AREAS OUTSIDE THE LIMITS OF THE STRUCTURE BACKFILL, SUBBASE THICKNESS BENEATH APPROACH SLAB TO MATCH SUBBASE THICKNESS OF ROADWAY.
- 10. DEPTH IS EQUAL TO THE TOTAL DEPTHS OF THE ASPHALT CONCRETE BASE COURSE, ASPHALT TREATED BASE COURSE AND SUBBASE, NO. 2A (20" MINIMUM).
- 11. INSTALL 6" PAVEMENT BASE DRAIN TRANSVERSELY ACROSS THE LANES AND SHOULDER. INSTALL PAVEMENT BASE DRAIN AS PER RC-30M, PTS-700, PTS-701 AND IN ACCORDANCE WITH SECTION 610. IF REQUIRED, PLACE ON STRUCTURE BACKFILL AS PER PTS-700 AND PTS-701. THIS WORK IS CONSIDERED INCIDENTAL TO THE RECESSED BRIDGE APPROACH SLAB.

SURVEY & CONSTRUCTION **B** FOR SIDE ROAD



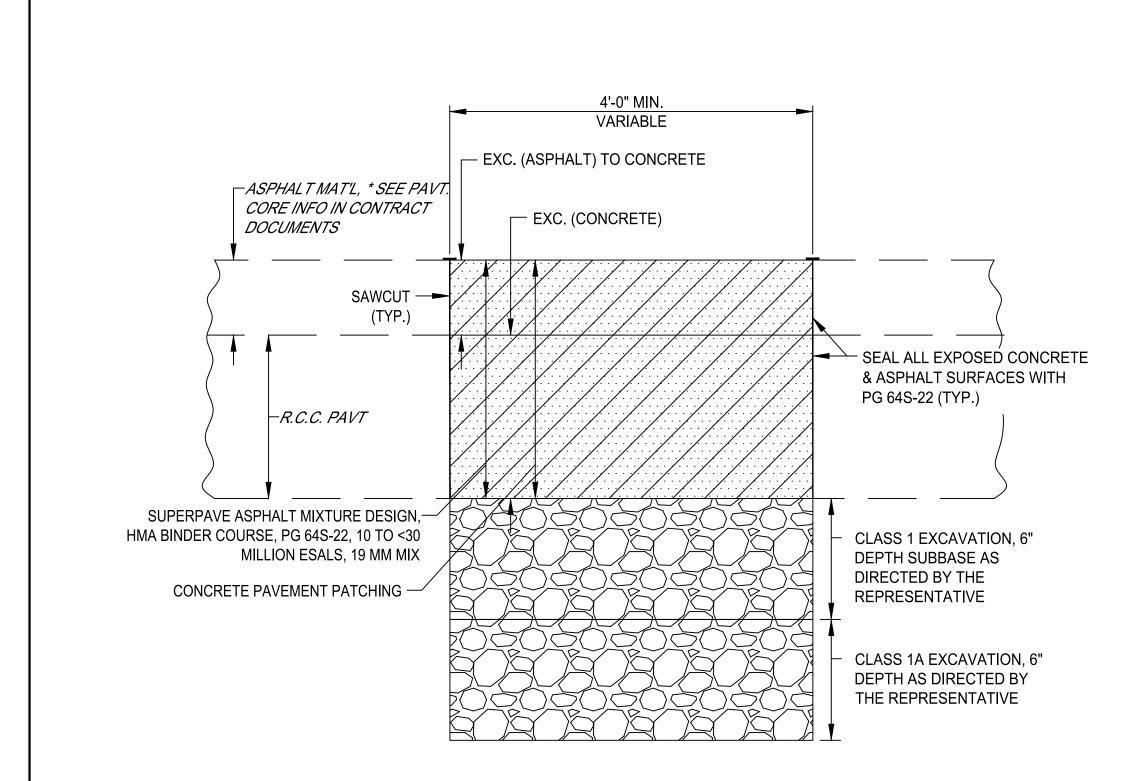
RECESSED BRIDGE APPROACH SLAB

	PENNSYLVANIA TURNPIKE COMMISSION STANDARD DRAWING	
E APPROACH SLAB	FILE NAME: PTS-111.dwg DRAWING TYPE:	SHEET 1 OF 1
	DATE: APRIL 2022	PTS-111



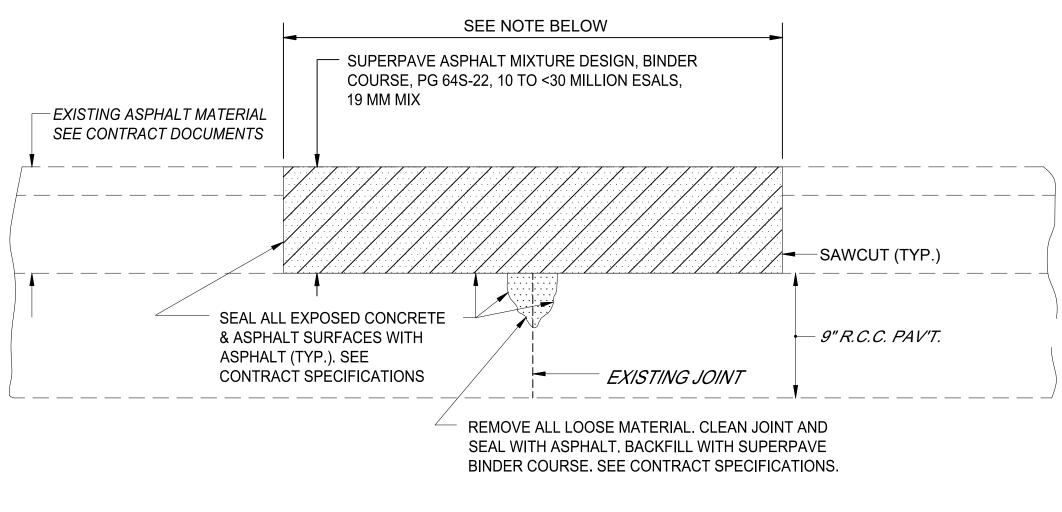
- CONTRACTS, PLACE CONSTRUCTION JOINT IN ASPHALT OVERLAY

SNAP PLACEMENT	PENNSYLVANIA TURNPIKE COMMISSION STANDARD DRAWING	
	FILE NAME: PTS-112.dwg	SHEET 1 OF 1
	DRAWING TYPE:	
	DATE: APRIL 2022	PTS-112

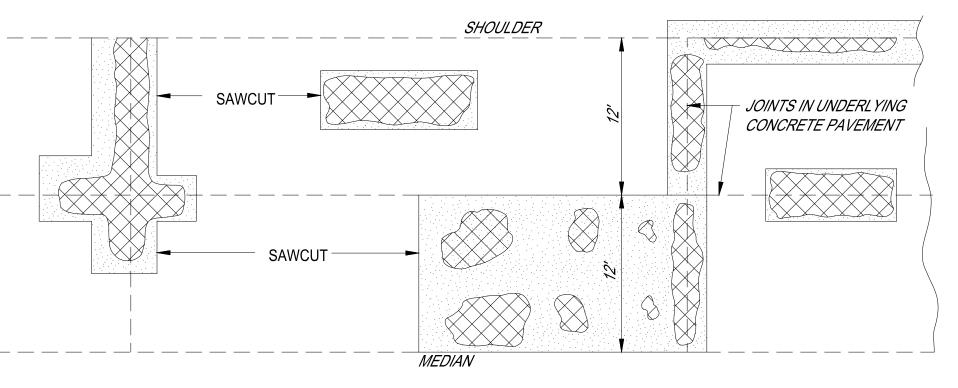


CONCRETE PAVEMENT PATCHING

(TRANSVERSE VIEW)



ASPHALT PAVEMENT PATCHING, AT PAVEMENT JOINTS (TRANSVERSE AND LONGITUDINAL)

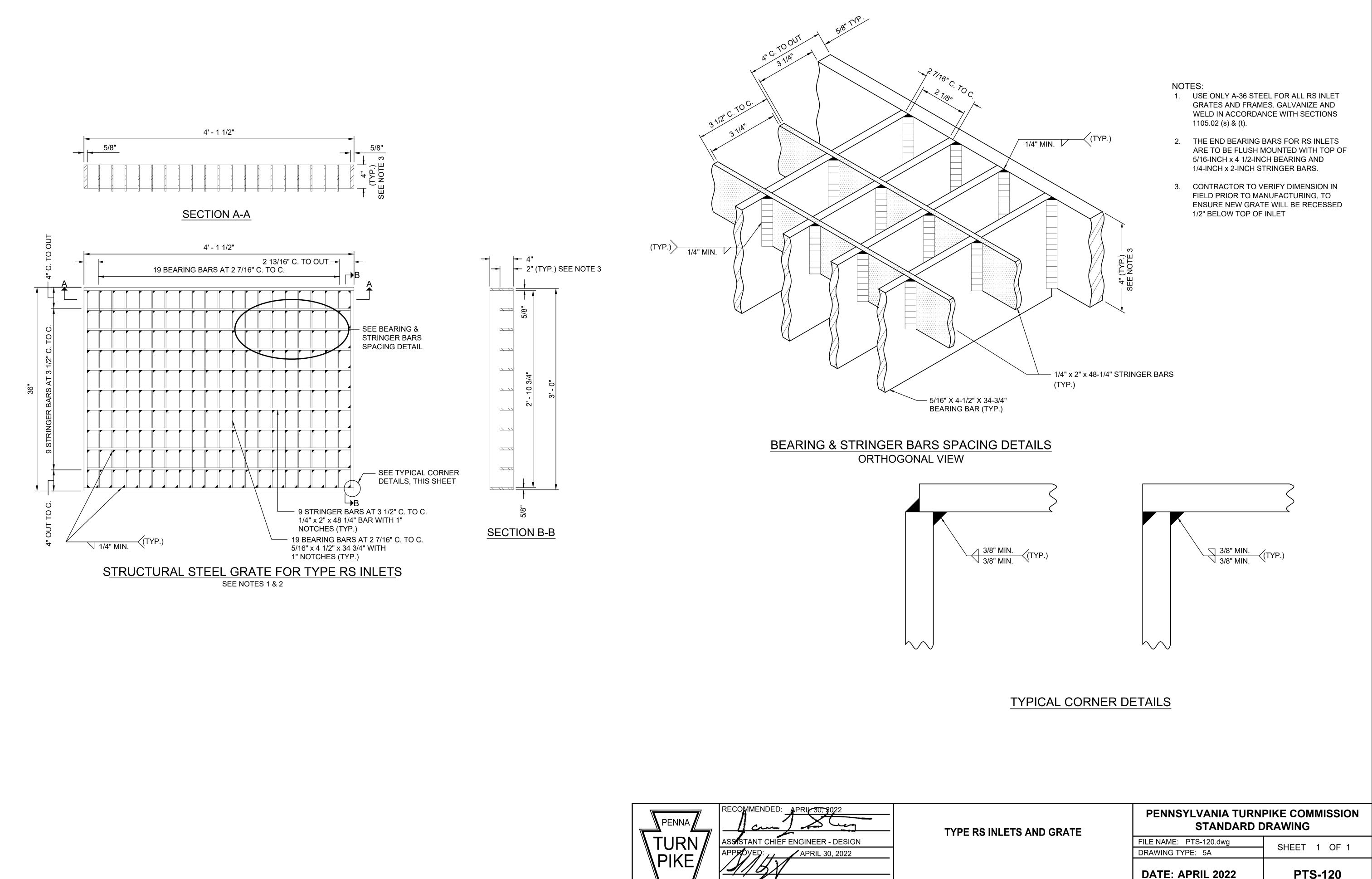


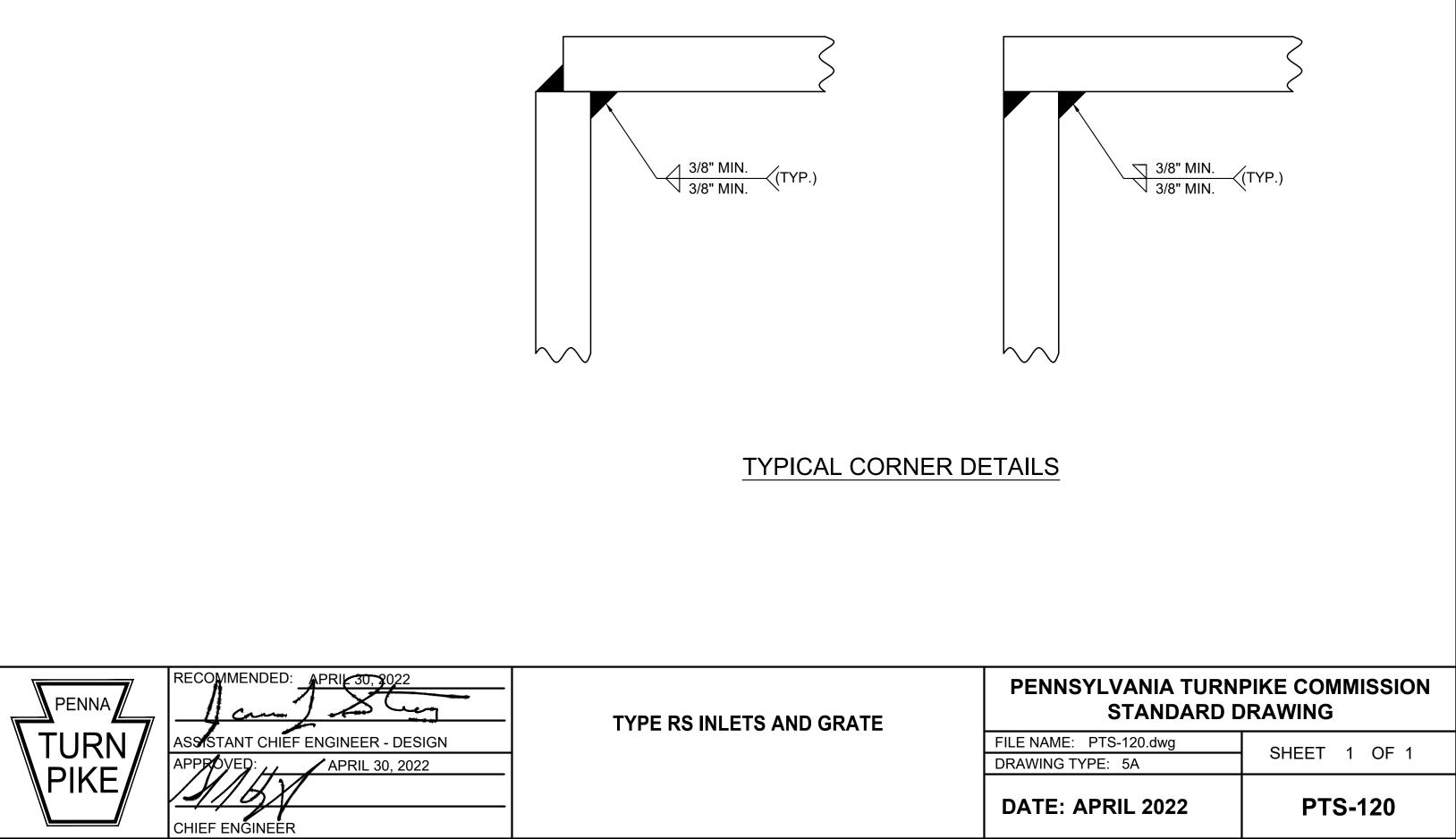
TYPICAL LOCATION OF ASPHALT PATCHING REPAIRS - MAINLINE

PENNA TURN PIKE	RECOMMENDED: NOVEMBER 28, 2023 ASSISTANT CHIEF ENGINEER - DESIGN APPROVED: NOVEMBER 29, 2023	PAVEMENT
	CHIEF ENGINEER	

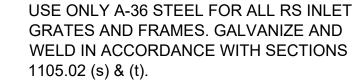
NOTE: USE 4'-0" MIN FOR TYPE A USE 10'-0" MIN FOR TYPE B

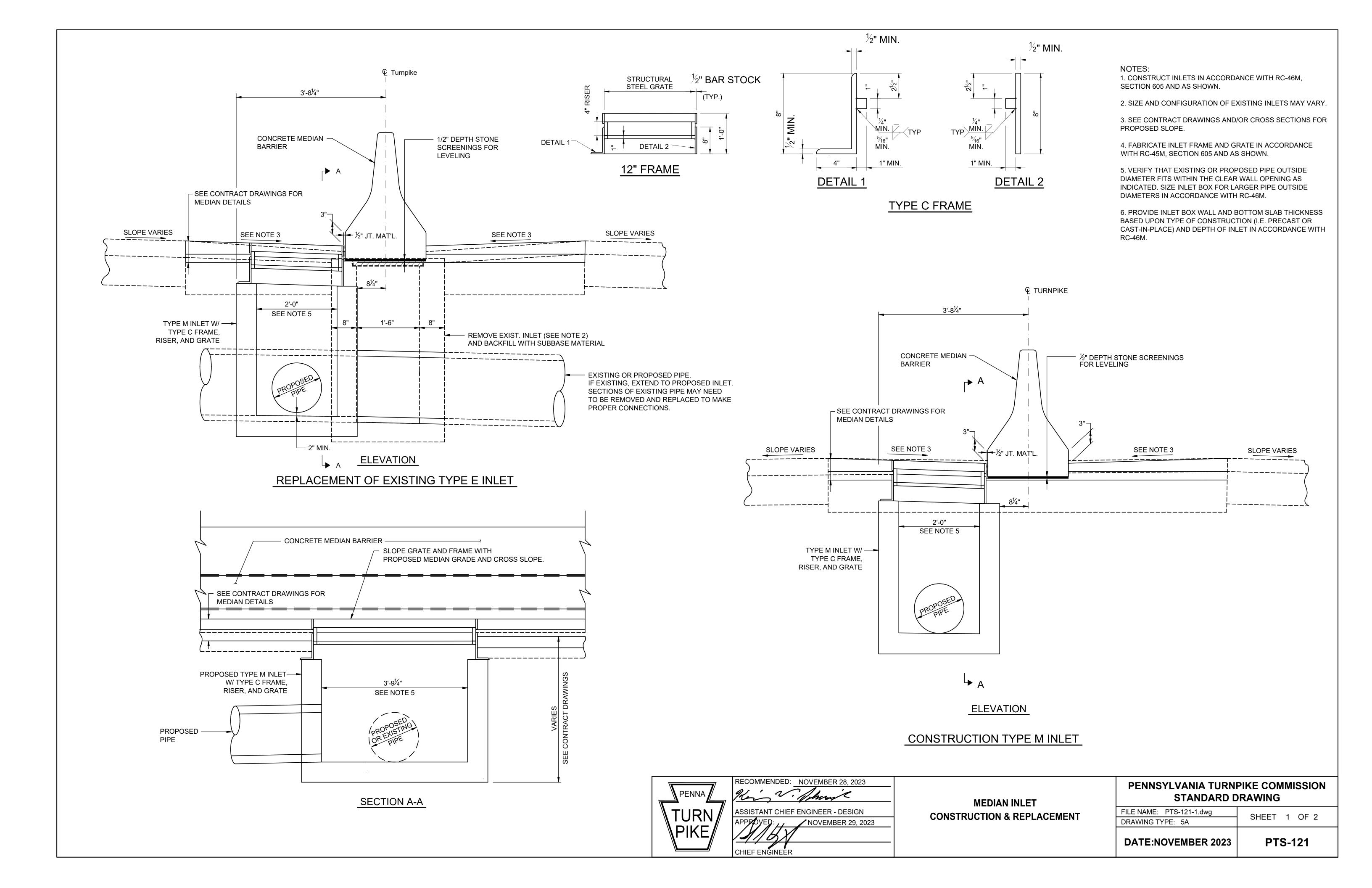
	PENNSYLVANIA TURN STANDARD D	
FPATCHING	FILE NAME: PTS-113.dwg	SHEET 1 OF 1
	DRAWING TYPE:	
	DATE: NOVEMBER 2023	PTS-113

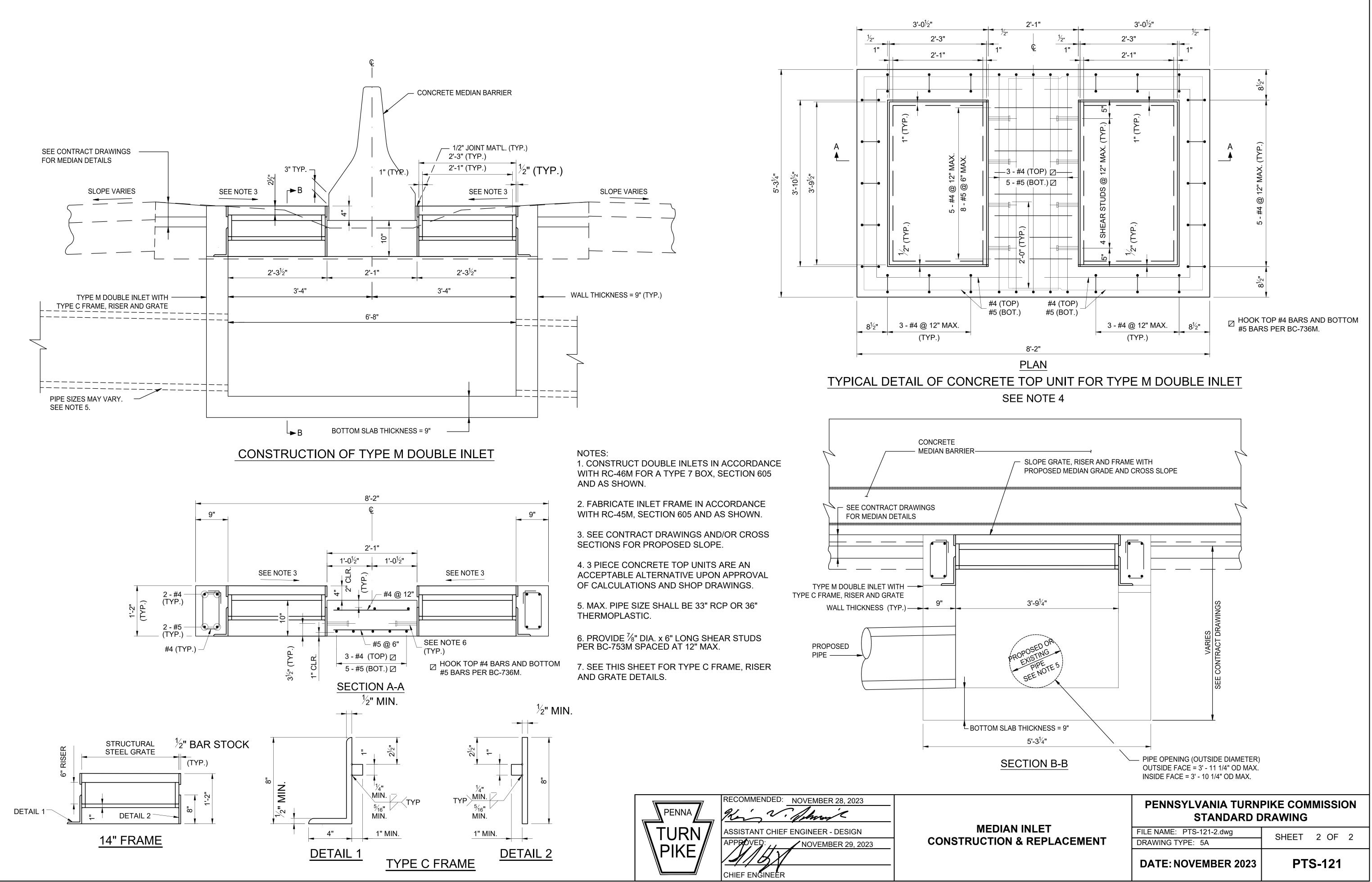


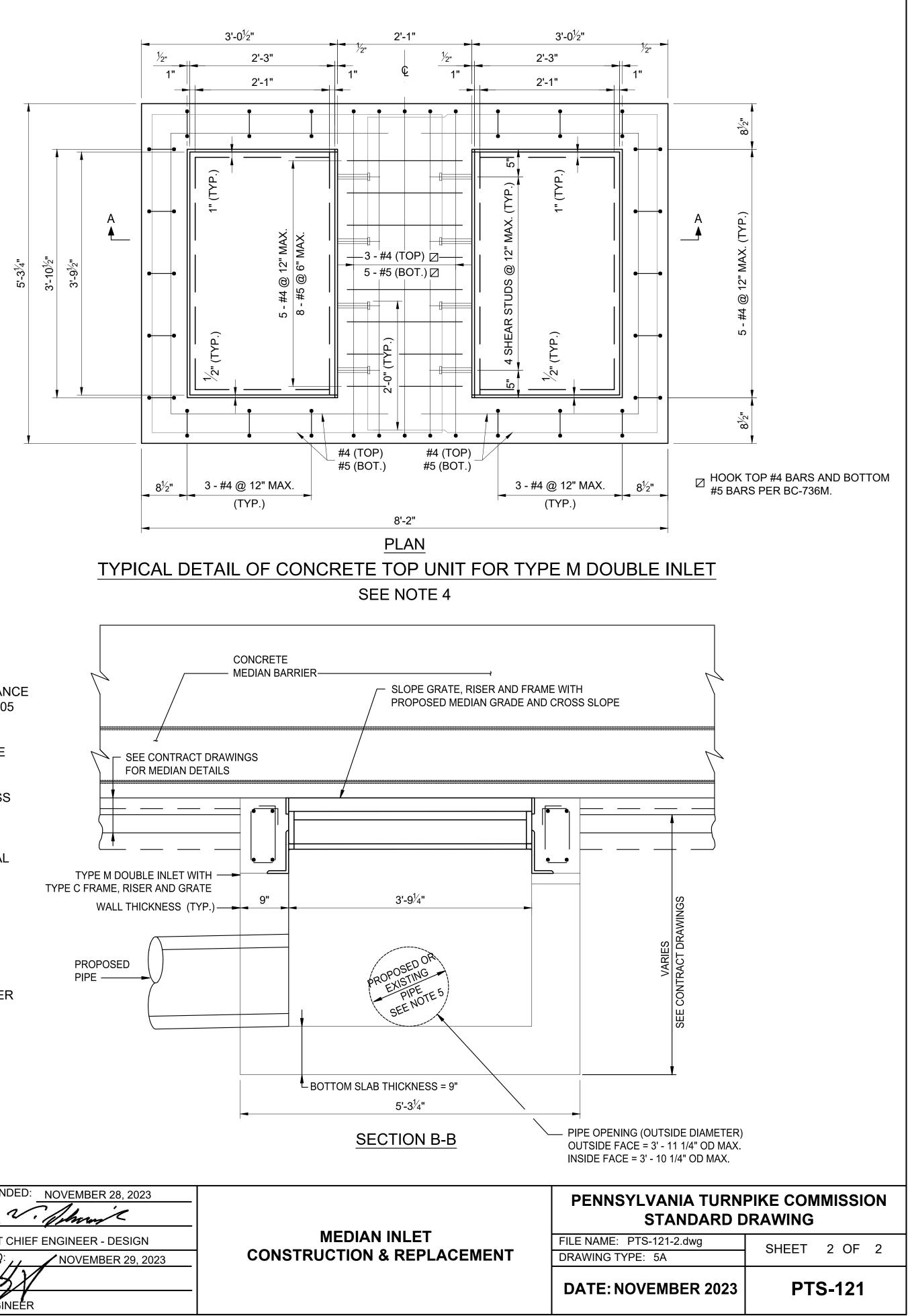




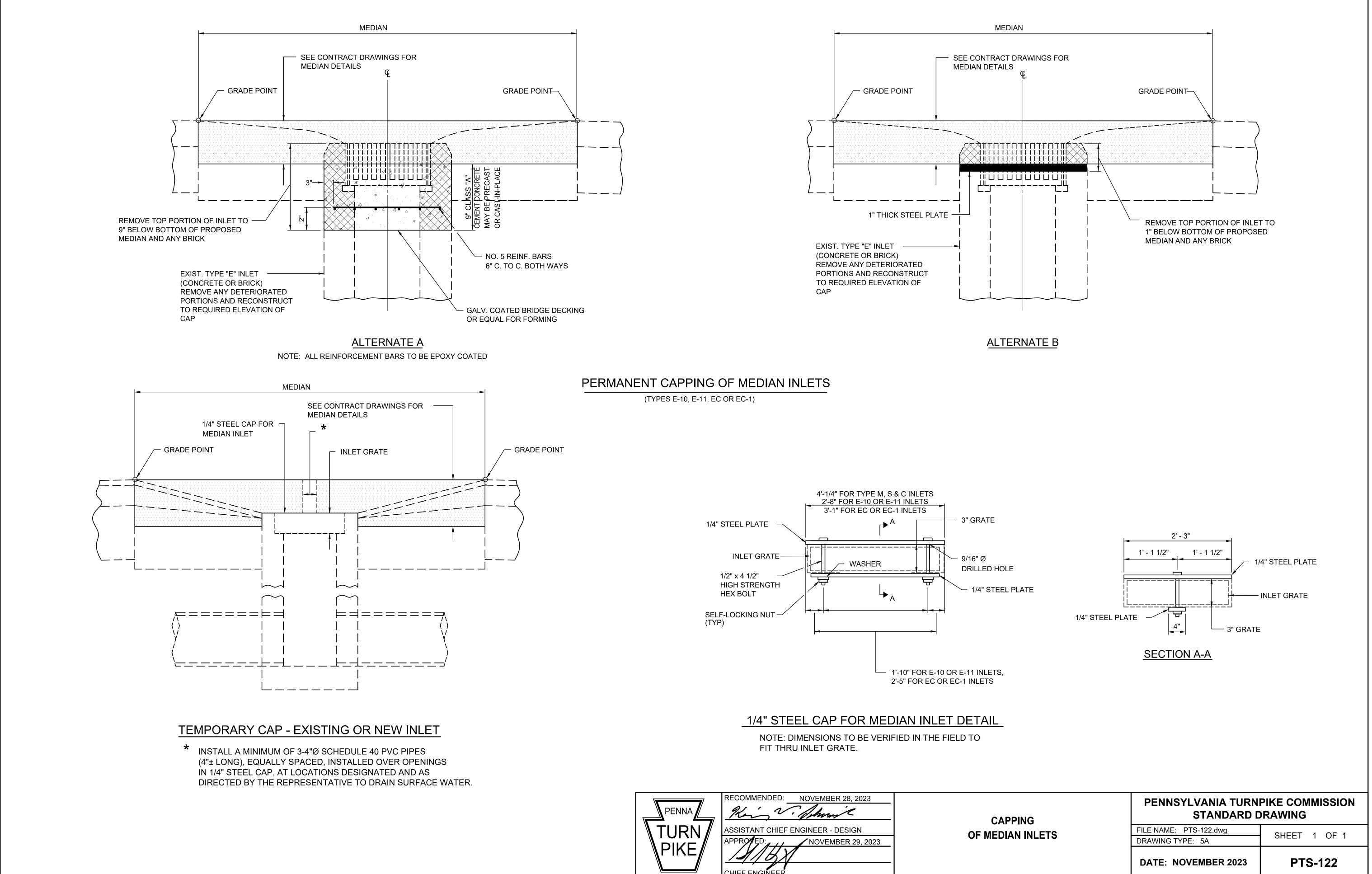




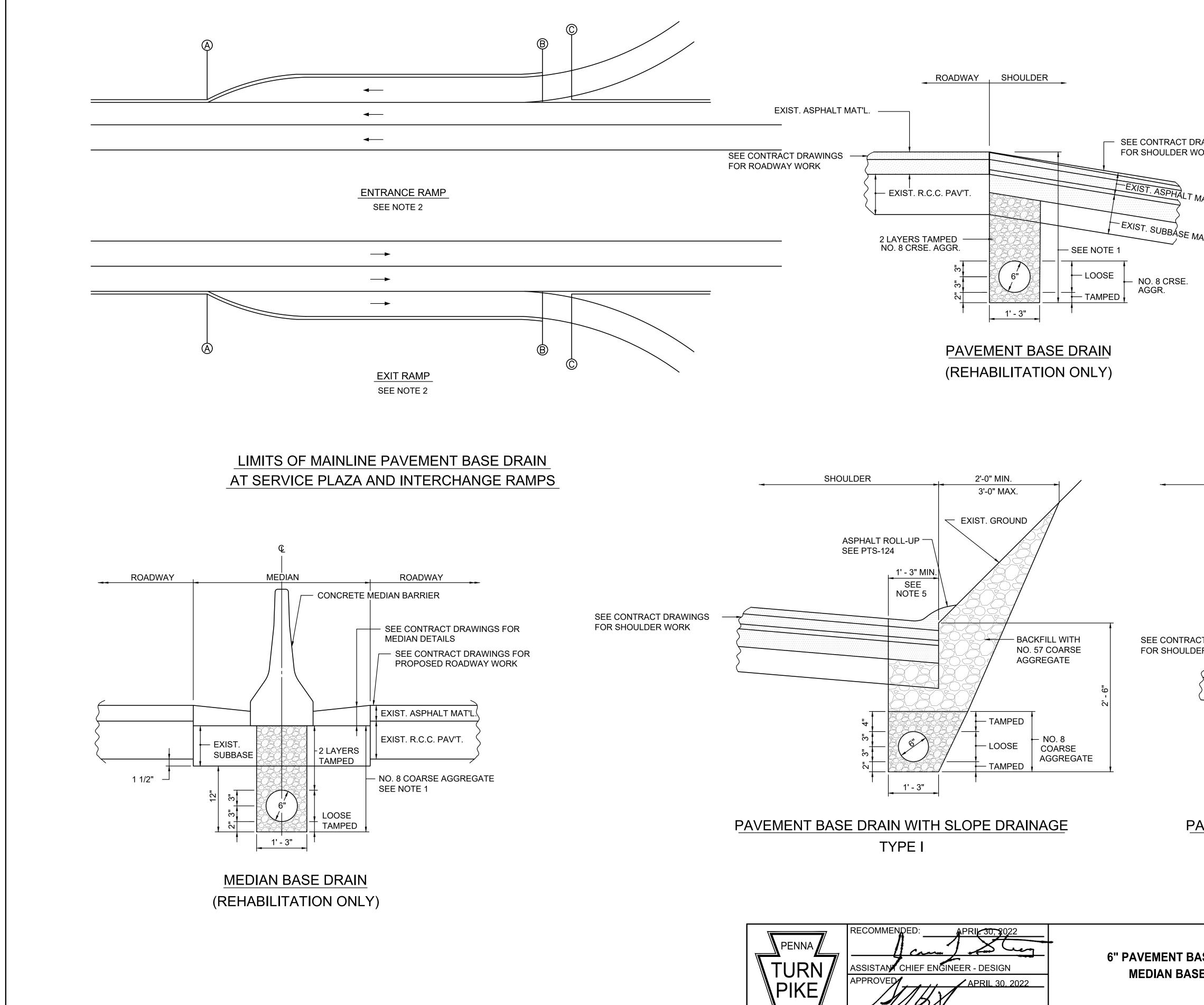






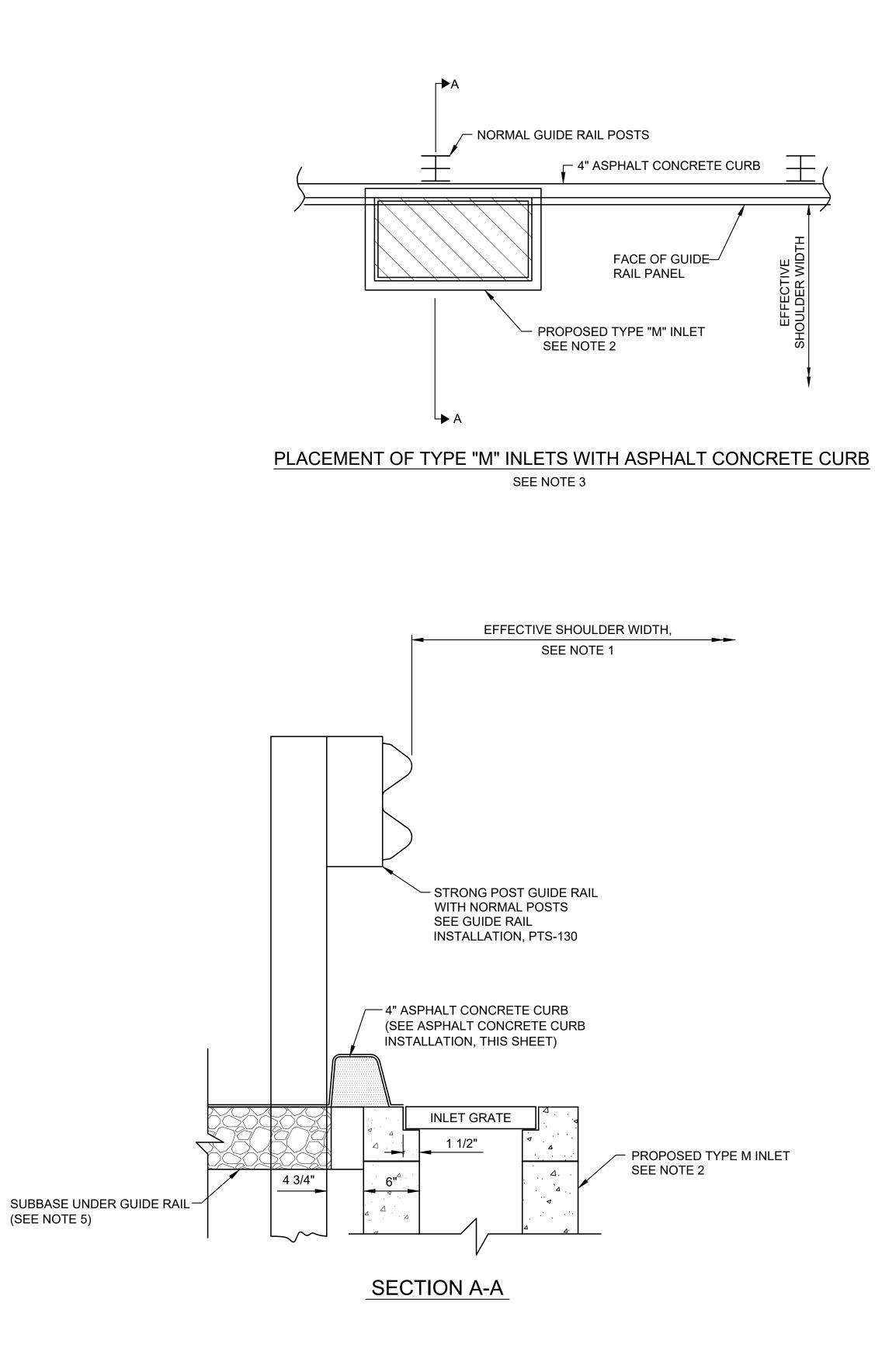


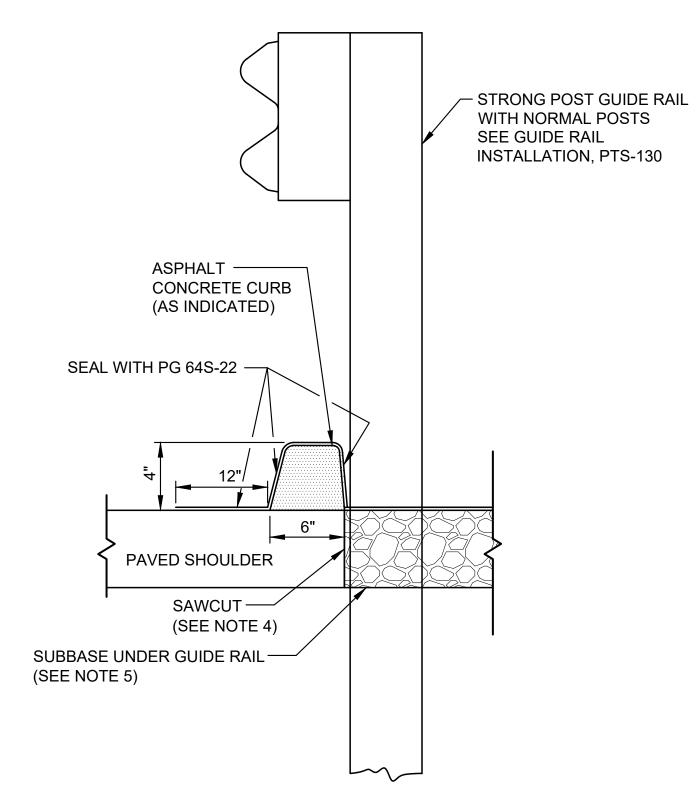
PENNA TURN PIKE PIKE CHIEF ENGINEER CHIEF ENGINEER	CAPPIN OF MEDIAN
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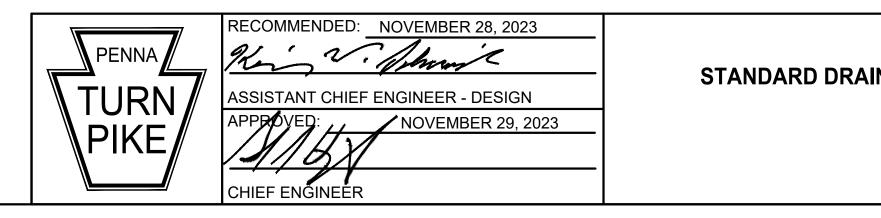
CHIEF ENGINEER

NOTES:	TRACT DRAWINGS FOR PROPOSED		
	MOVE ANY EXISTING UNDERDRAIN.		
MIT THE THE FOL MENT BA POINT W a. STO a. STO OF I ORK IN T b. STO	 2. IF THE ROADWAY GRADE AND/OR SLOPES DO NOT PER- MIT THE PAVEMENT BASE DRAIN TO BE OUTLETTED AT THE FOLLOWING LIMITS, THEN STOP/START THE PAVE- MENT BASE DRAIN AT THE NEAREST INLET OR AT A POINT WHERE IT MAY BE OUTLETTED ON THE SLOPE. a. STOP PAVEMENT BASE DRAIN AT POINT (A) (LIMIT OF RAMP) IF THERE IS NO RAMP WORK INVOLVED IN THE PROJECT. b. STOP PAVEMENT BASE DRAIN AT POINT (B) (BEGINN- ING OF PHYSICAL GORE) IF THERE IS RAMP WORK 		
WH WO MAT'L. BAS c. STA	WHICH EXTENDS TO THIS POINT OR BEYOND. IF RAMP WORK STOPS PRIOR TO THIS POINT, STOP PAVEMENT BASE DRAIN AT THE SAME LIMIT AS THE RAMP WORK. c. START PAVEMENT BASE DRAIN AT POINT © WHICH IS THE POINT AT WHICH THE GORE AREA IS WIDER THAN		
ΊΑΤΊ	THE TRENCH WIDTH.		
OUTLETS	 OUTLET PAVEMENT BASE DRAIN WITH SUBSURFACE DRAIN OUTLETS AS INDICATED ON RC-30M AND IN ACCORDANCE WITH SECTION 615. 		
	PAVEMENT BASE DRAIN ON RAMPS A CT DRAWINGS.	AS PER THE	
	EMENT BASE DRAIN WITH SLOPE DR		
ANE WIT PAV	HE FULL WIDTH OF THE SHOULDER I D PAVED, THEN INSTALL THE PAVEME TH SLOPE DRAINAGE AND REPLACE T (EMENT WITH ASPHALT BINDER COU E MILLING AND PAVING OPERATIONS.	ENT BASE DRAIN THE SHOULDER RSE PRIOR TO	
REC	HE FULL WIDTH OF THE SHOULDER I CONSTRUCTED, THEN INSTALL THE F AIN WITH SLOPE DRAINAGE AT THE S THE SHOULDER WORK.	AVEMENT BASE	
SHOULDER	2'-0" MIN.		
	3'-0" MAX.		
		ACKFILL WITH D. 57 COARSE GGREGATE	
4 	TAMPED	•	
2" 2" 2" 3"	LOOSE	NO. 8 COARSE AGGREGATE	
AVEMENT BASE DF	RAIN WITH SLOPE DRA	INAGE	
	TYPE II		
ASE DRAIN &	PENNSYLVANIA TURN STANDARD D		
SE DRAIN	FILE NAME: PTS-123.dwg DRAWING TYPE: 5A	SHEET 1 OF 1	
	DATE: APRIL 2022	PTS-123	





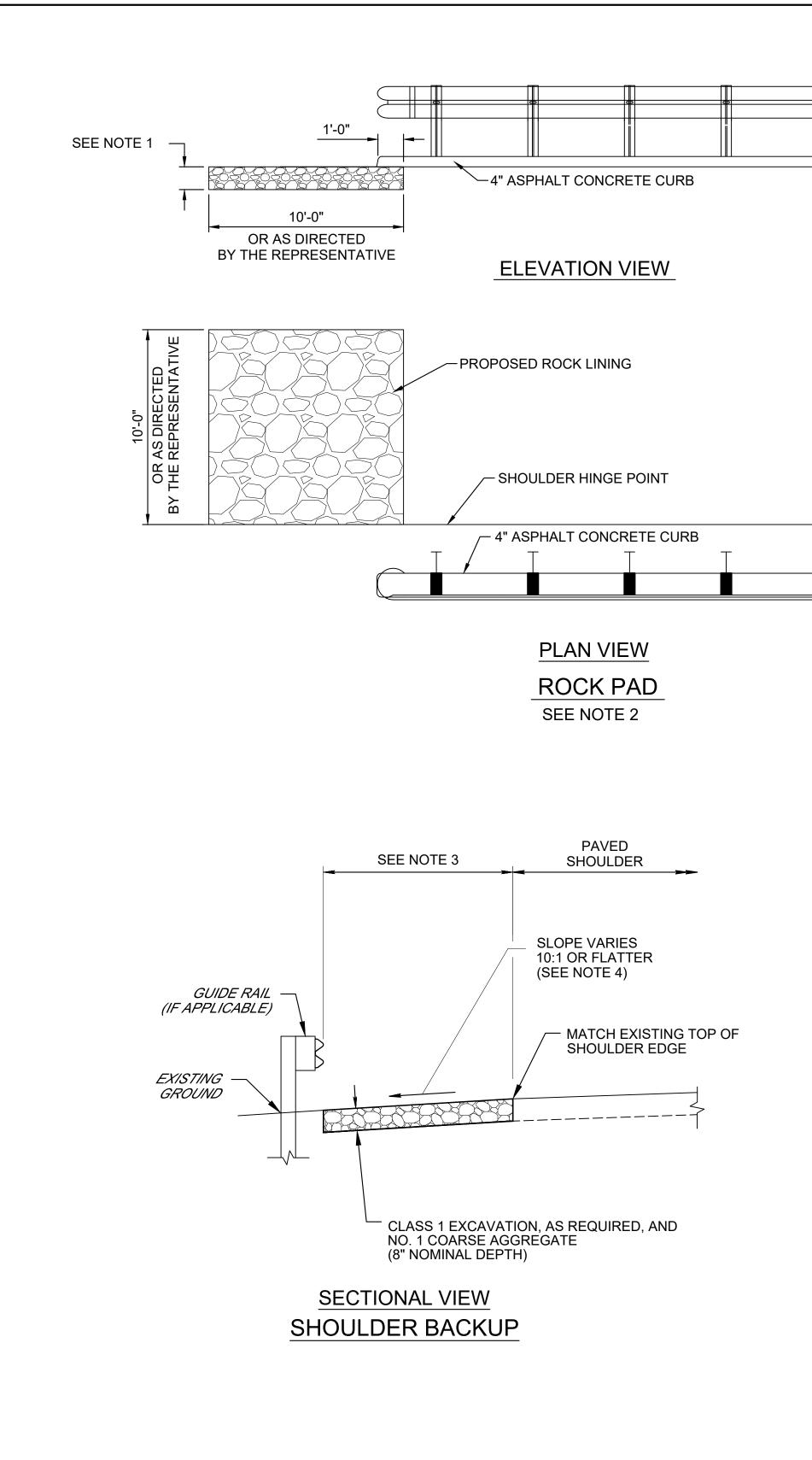
SECTIONAL VIEW ASPHALT CONCRETE CURB INSTALLATION

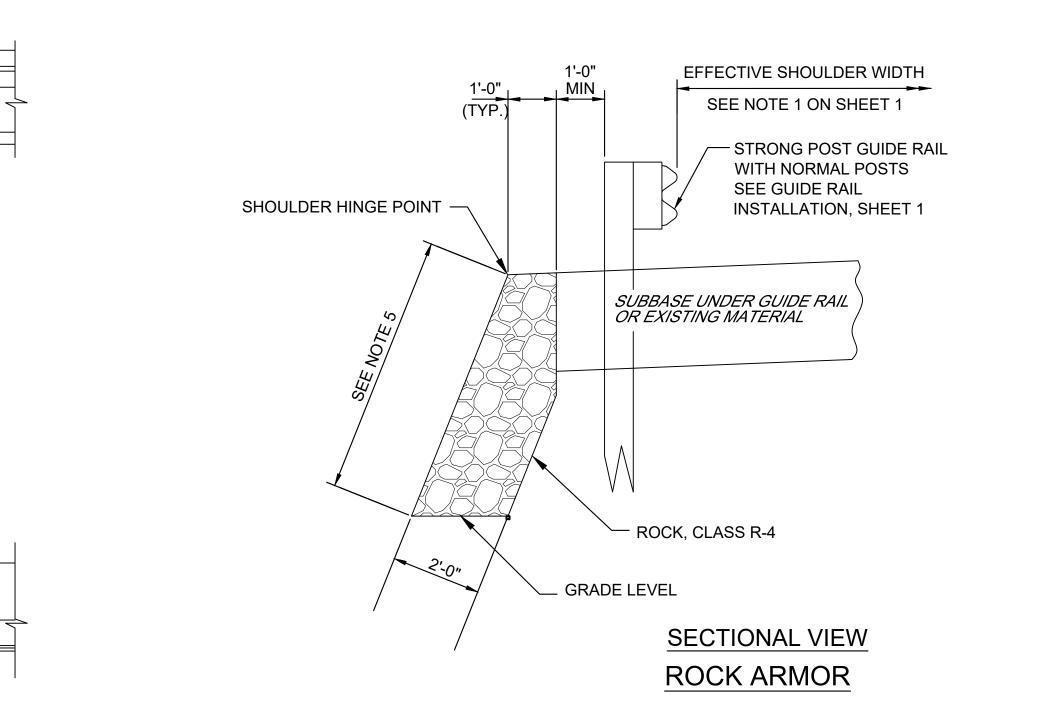


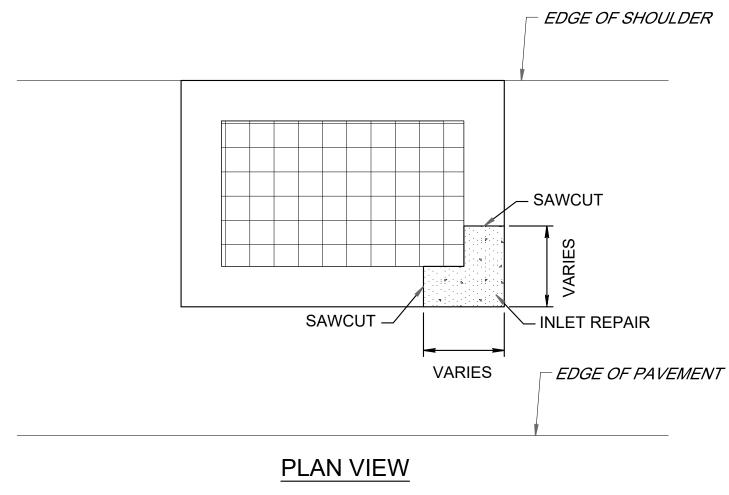
NOTES:

- 1. SEE CONTRACT DRAWINGS FOR PROPOSED EFFECTIVE SHOULDER WIDTHS (TYPICALLY 12'-0" DESIRABLE, 10'-0" MINIMUM).
- 2. SUMP INLET 1-INCH BELOW THE PROPOSED SHOULDER GRADE IF THE TRAFFIC CONTROL FOR THE PROJECT DOES NOT REQUIRE TRAFFIC TO RUN ON THE SHOULDER.
- 3. EXTEND THE ASPHALT CONCRETE CURB A MINIMUM OF 5-FEET BEYOND THE INLET OR AS DIRECTED BY THE REPRESENTATIVE WHEN THE CURB ENDS AT AN INLET.
- 4. SAWCUT, IF NECESSARY, TO PROVIDE A VERTICAL FACE FOR SUBBASE UNDER GUIDE RAIL TO ACCOMMODATE INSTALLATION OF GUIDE RAIL POSTS.
- 5. REFER TO PTS-130 GUIDE RAIL INSTALLATION FILL CONDITION

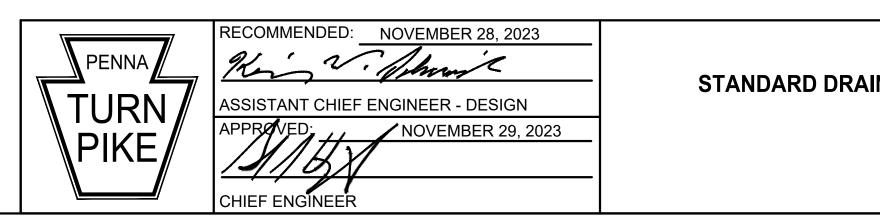
INAGE DETAILS	PENNSYLVANIA TURNPIKE COMMISSION STANDARD DRAWING	
	FILE NAME: PTS-124-1.dwg	SHEET 1 OF 6
	DRAWING TYPE: 5A	SHEET I OF 0
	DATE:NOVEMBER 2023	PTS-124









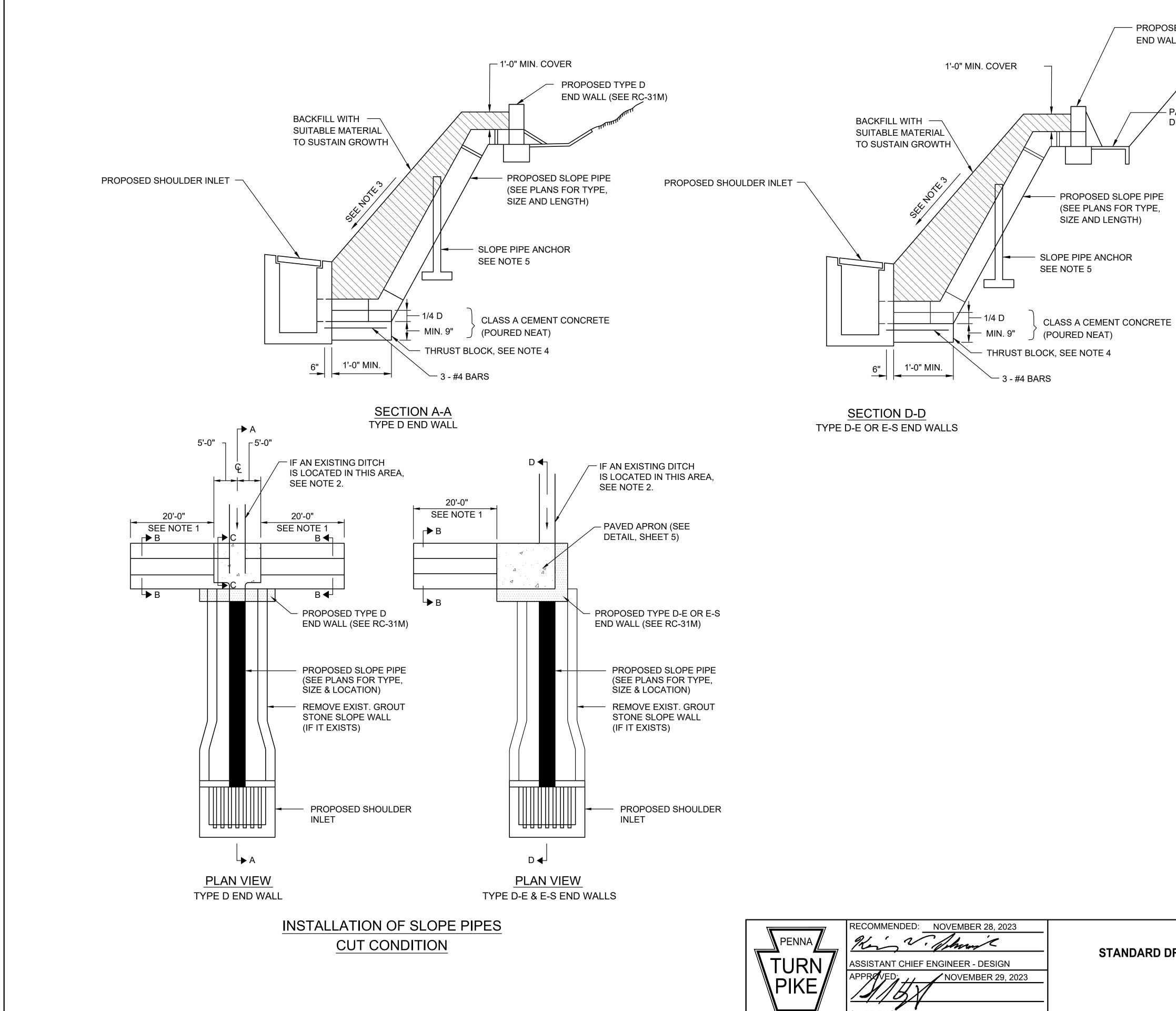


- 1. PLACE ROCK OF THE SIZE INDICATED ON THE PLANS AND TO THE REQUIRED THICKNESS AS SPECIFIED IN SECTION 850.2.
- 2. INSTALL ROCK PADS AT LOCATIONS INDICATED ON THE PLANS AND AT THE DOWNGRADE END OF CUT SLOPES (CUT TO FILL POINT) AS DIRECTED BY THE REPRESENTATIVE.
- 3. 4' MINIMUM WIDTH WITHOUT GUIDE RAIL. WIDTH VARIES WITH GUIDE RAIL FROM BACK EDGE OF PAVED SHOULDER TO FACE OF GUIDE RAIL.
- 4. REGRADE CROSS SLOPE PER PLAN OR MATCH EXISTING SLOPES TO ENSURE POSITIVE DRAINAGE FLOW.
- 5. INSTALL ROCK ARMOR AT A HEIGHT OF 5'-0" MINIMUM, MEASURED ALONG EXISTING SLOPE, BETWEEN HINGE POINT AND GRADE LEVEL.
- 6. INSTALL ROCK ARMOR, MODIFIED AT A HEIGHT OF 10'-0" MINIMUM OR AS INDICATED ON CONTRACT DRAWINGS. FILL SLOPE SHALL BE 2H: 1V OR AS SHOWN FOR THE NEW CONSTRUCTION / RECONSTRUCTION CONTRACTS; MATCH EXISTING SLOPE OR AS SHOWN ON PLANS FOR RESURFACING / REHABILITATION CONTRACTS.

ASPHALT ROLLUP (INCIDENTAL TO PLACEMENT OF WEARING COURSE) 3:1 OR STEEPER 3:1 OR STEEPER	
4" MAX HEIGHT	
PAVED SHOULDER	

SECTIONAL VIEW ASPHALT ROLLUP IN CUT CONDITION

NAGE DETAILS	PENNSYLVANIA TURNI STANDARD D	
	FILE NAME: PTS-124-2.dwg	SHEET 2 OF 6
	DRAWING TYPE: 5A	SHEET 2 OF 0
	DATE: NOVEMBER 2023	PTS-124

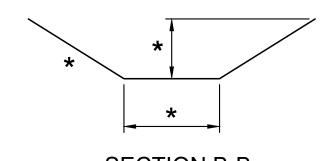




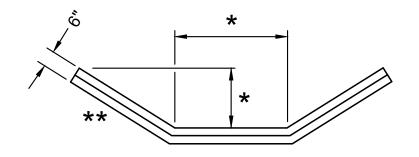
PROPOSED TYPE D-E OR E-S END WALL (SEE RC-31M)

- PAVED APRON (SEE DETAIL, SHEET 5)

- 1. RESHAPE AND/OR REGRADE EXISTING SWALE TO TIE TO EXISTING CONTOURS.
- REGRADE DITCH IN AREA OF PROPOSED CONCRETE STREAM 2. BED PAVING TO ENSURE THE FLOW LINE IS UNOBSTRUCTED.
- 3. MAX. SLOPE = 1 1/2:1. IF SLOPE IS STEEPER THAN 1 1/2:1 OR ROCK, DETAILS MUST BE PROVIDED IN THE CONTRACT DRAWINGS.
- 4. THRUST BLOCK IS INCIDENTAL TO SLOPE PIPE.
- 5. PLACE A SLOPE PIPE ANCHOR, AS SHOWN ON SHEET 5 EVERY 20-FEET ALONG THE LENGTH OF THE PIPE OR AT THE PIPE JOINTS AS DIRECTED BY THE REPRESENTATIVE. SLOPE PIPE ANCHORS ARE INCIDENTAL TO THE SLOPE PIPE.



SECTION B-B TYPICAL SECTION EARTH SWALE * MATCH EXIST. FIELD CONDITIONS

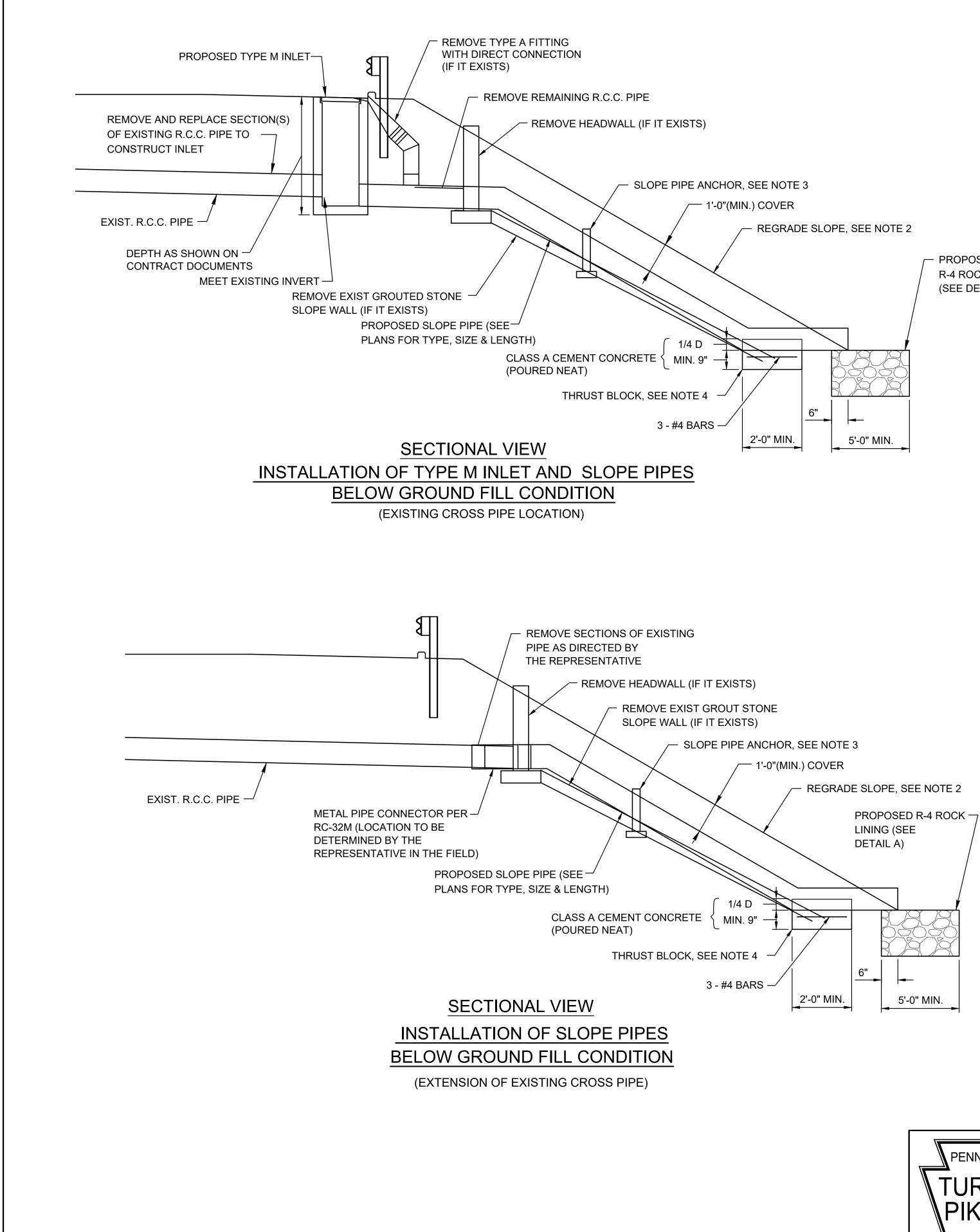


SECTION C-C TYPICAL SECTION CONCRETE SWALE (SEE RC-40M FOR ALL OTHER DETAILS OF CEMENT CONCRETE PAVING FOR STREAM BEDS)

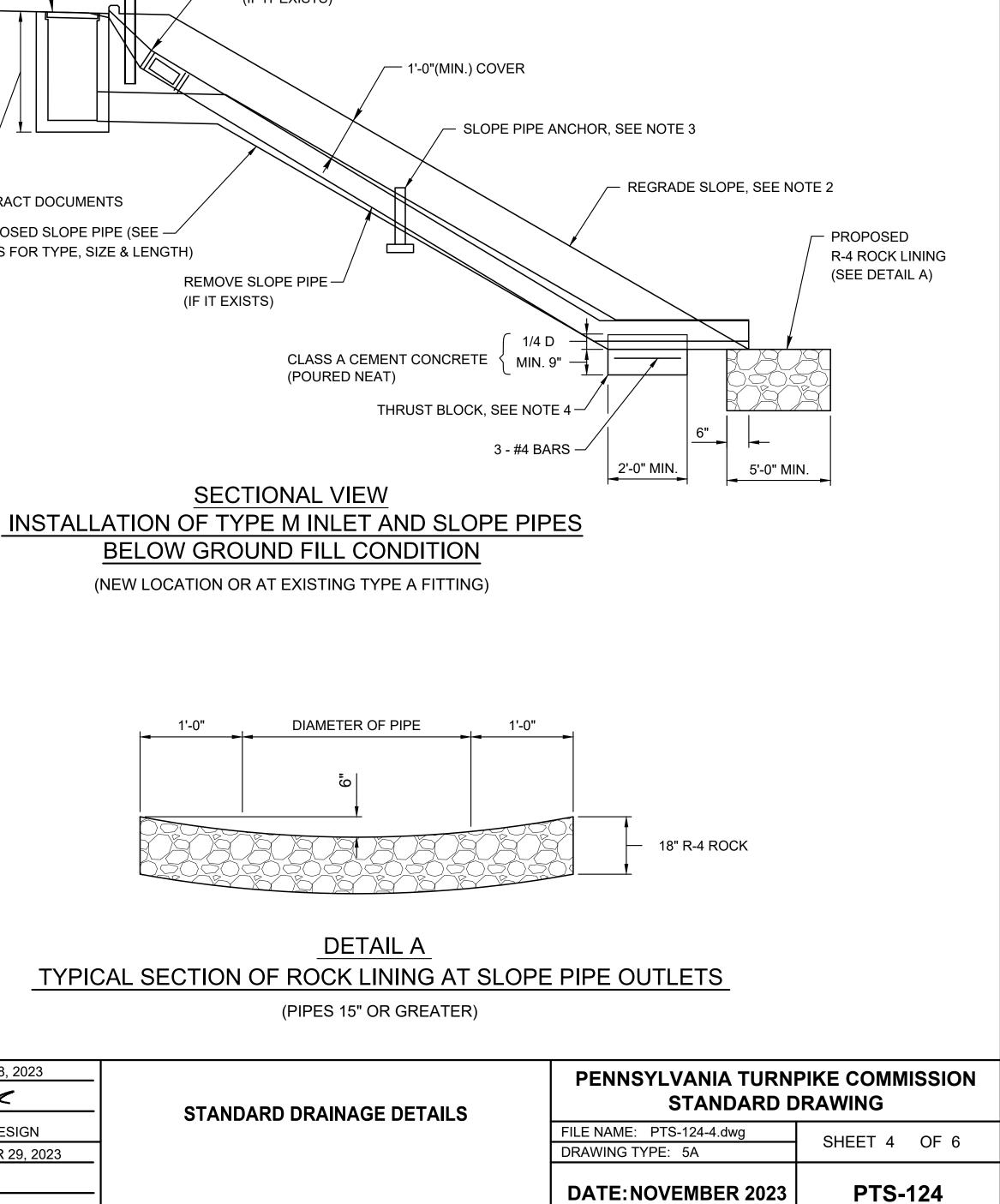
* MATCH EXIST. FIELD CONDITIONS

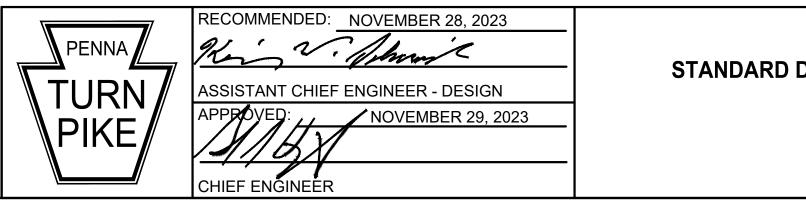
** IF AN EXIST. DITCH IS LOCATED PERPENDICULAR TO THE HEADWALL THEN TRANSITION CONCRETE STREAM BED PAVING TO ALLOW FOR PROPER FLOW.

PENNSYLVANIA TURNPIKE COMMISSION **STANDARD DRAWING** STANDARD DRAINAGE DETAILS FILE NAME: PTS-124-3.dwg SHEET 3 OF 6 DRAWING TYPE: 5A PTS-124 DATE:NOVEMBER 2023



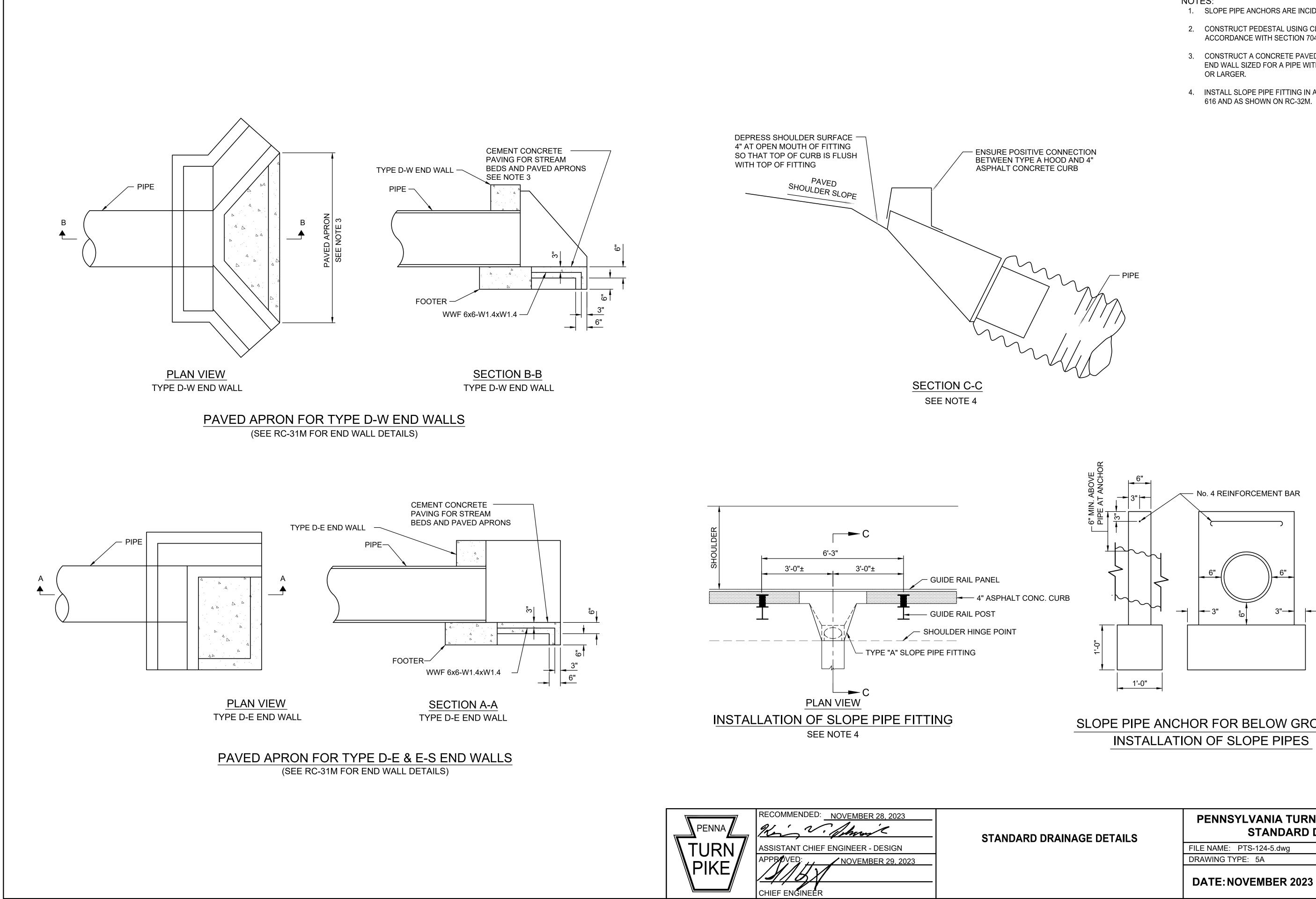
PROPOSED **R-4 ROCK LINING** (SEE DETAIL A) PROPOSED TYPE M INLET REMOVE **TYPE A FITTING** (IF IT EXISTS) 5'-0" OR AS SHOWN ON CONTRACT DOCUMENTS PROPOSED SLOPE PIPE (SEE PLANS FOR TYPE, SIZE & LENGTH) **REMOVE SLOPE PIPE -**(IF IT EXISTS)







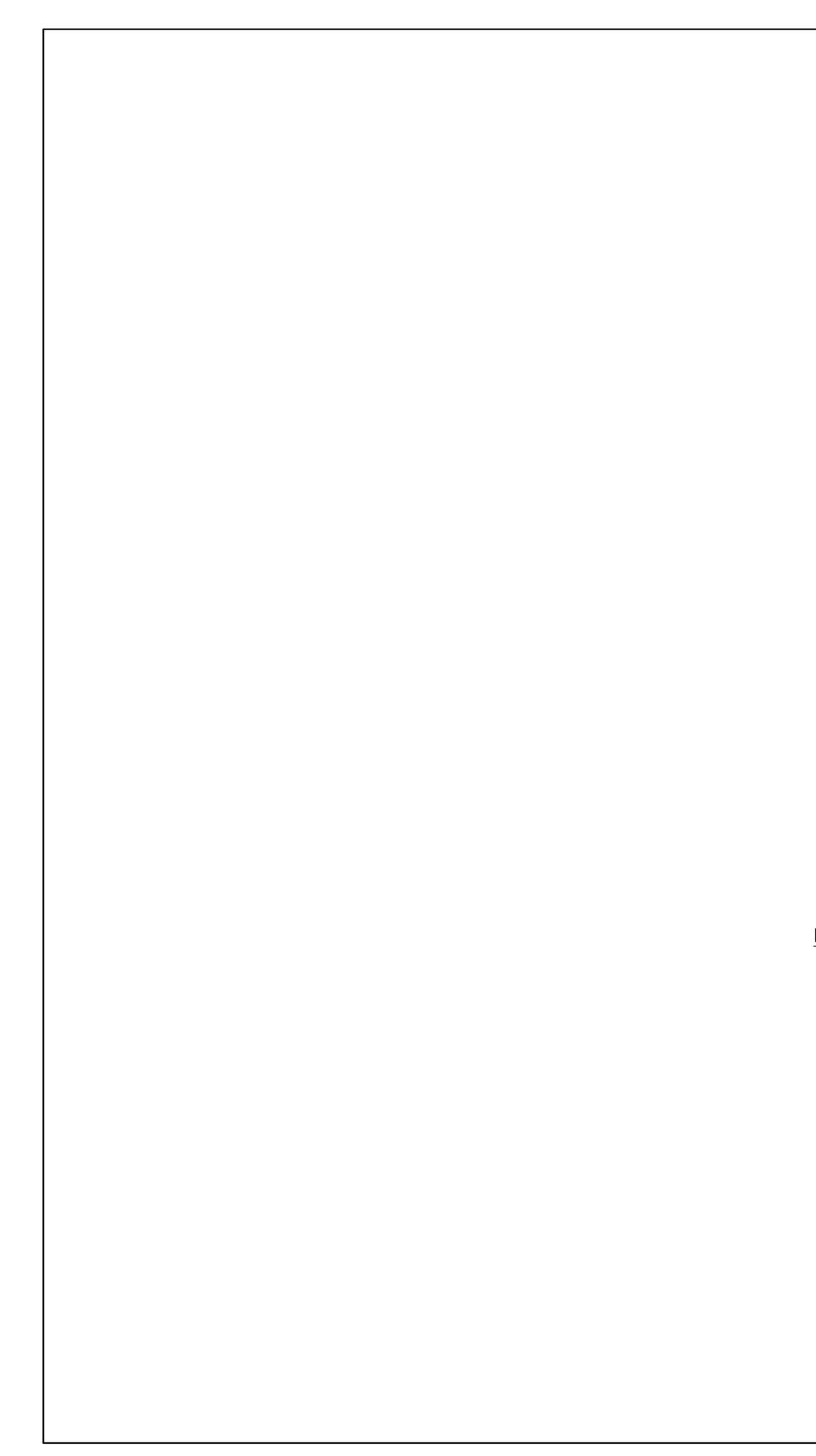
- 1. REMOVAL OF EXISTING PIPES, TYPE A FITTINGS, HEADWALLS AND STONE SLOPE WALLS ARE INCIDENTAL TO THE PROPOSED WORK.
- 2. REGRADE AREA OF SLOPE PIPE INSTALLATION TO MEET ADJACENT CONTOURS.
- 3. PLACE A SLOPE PIPE ANCHOR, AS SHOWN ON SHEET 5 EVERY 20-FEET ALONG THE PIPE OR AT THE PIPE JOINTS AS DIRECTED BY THE REPRESENTATIVE. SLOPE PIPE ANCHORS ARE INCIDENTAL TO THE SLOPE PIPE.
- 4. THRUST BLOCK IS INCIDENTAL TO SLOPE PIPE.

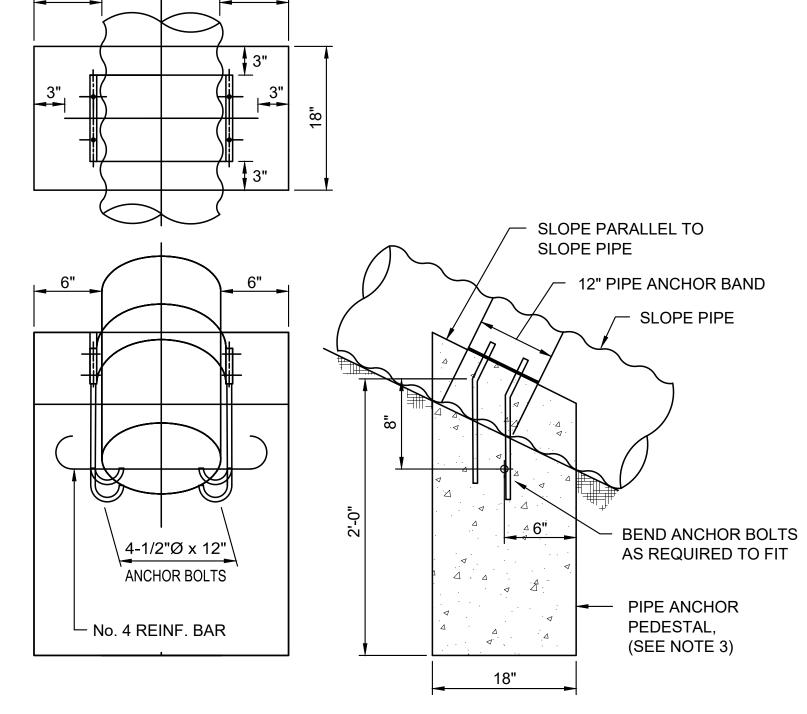


- 1. SLOPE PIPE ANCHORS ARE INCIDENTAL TO THE SLOPE PIPE.
- 2. CONSTRUCT PEDESTAL USING CLASS A CEMENT CONCRETE IN ACCORDANCE WITH SECTION 704.
- 3. CONSTRUCT A CONCRETE PAVED APRON WITH A TYPE D-W END WALL SIZED FOR A PIPE WITH A DIAMETER OF 36 INCHES
- 4. INSTALL SLOPE PIPE FITTING IN ACCORDANCE WITH SECTION

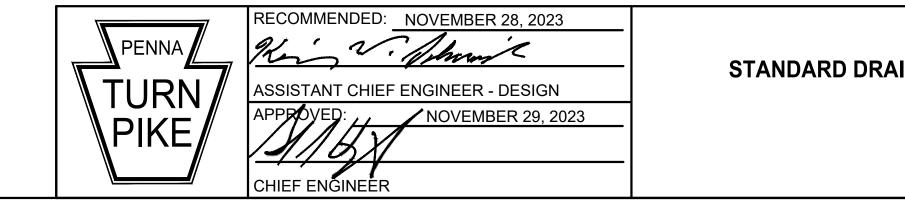
SLOPE PIPE ANCHOR FOR BELOW GROUND

AINAGE DETAILS	PENNSYLVANIA TURNPIKE CO STANDARD DRAWIN	
	FILE NAME: PTS-124-5.dwg	SHEET 5 OF 6
	DRAWING TYPE: 5A	SHELT J OF U
	DATE: NOVEMBER 2023	PTS-124



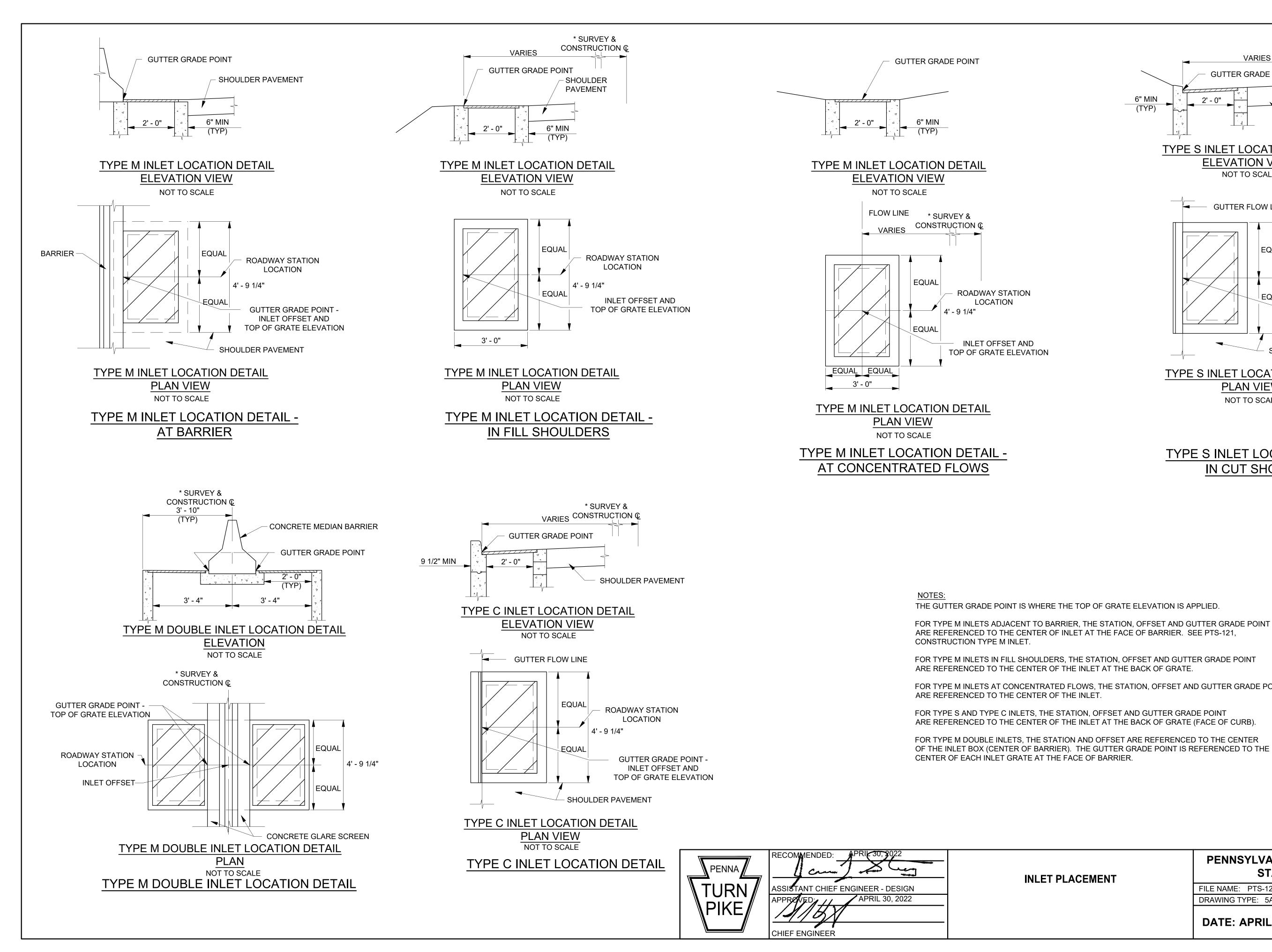


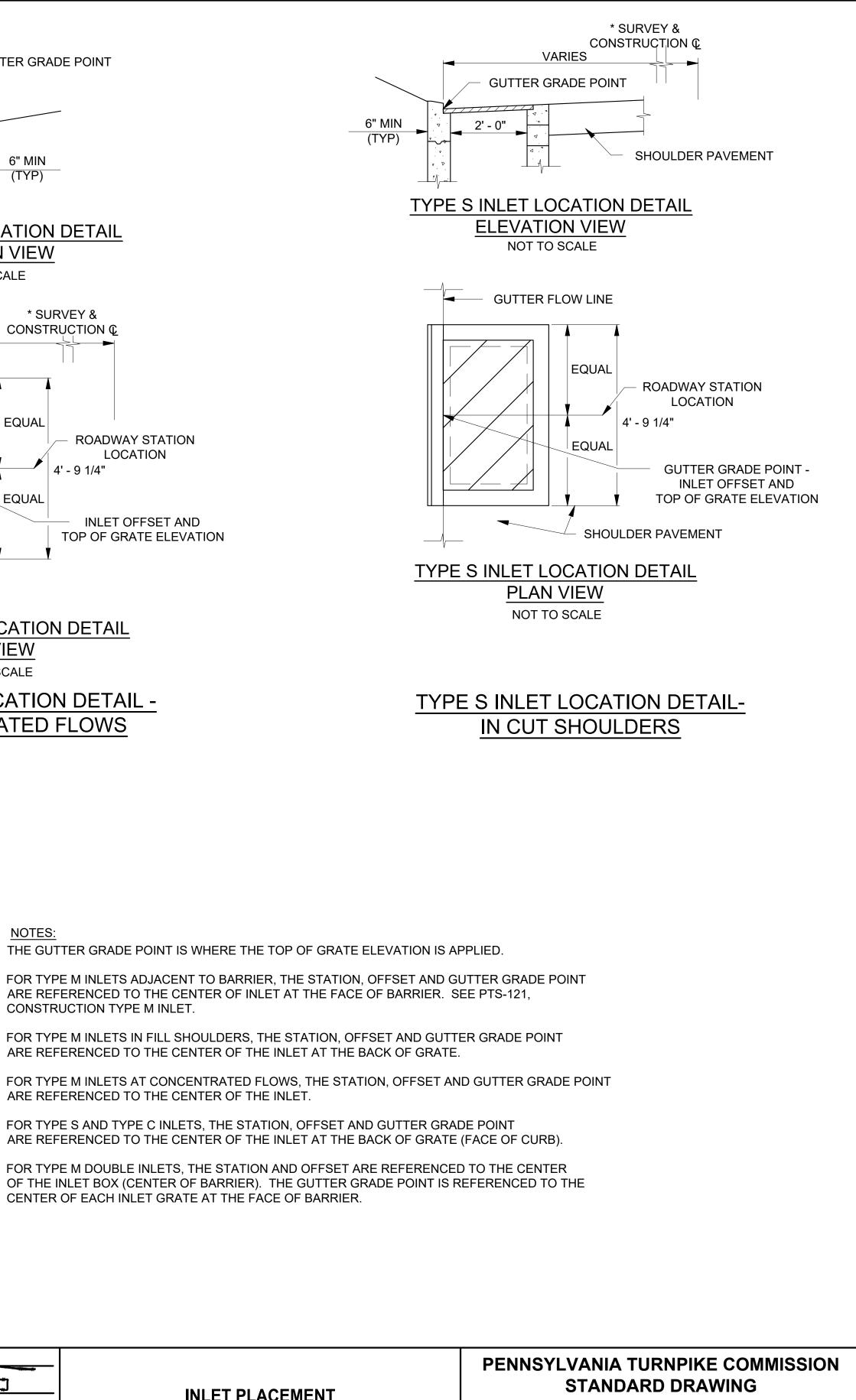
PIPE ANCHOR FOR ABOVE GROUND INSTALLATION OF SLOPE PIPES FILL CONDITION SEE NOTE 1



- NOTES: 1. PLACE ONE PIPE ANCHOR FOR ABOVE GROUND INSTALLATION AT EACH PIPE JOINT OR AS DIRECTED BY THE REPRESENTATIVE WHEN INSTALLING PIPES ON THE SURFACE OF SLOPES.
- 2. SLOPE PIPE ANCHORS ARE INCIDENTAL TO THE SLOPE PIPE.
- 3. CONSTRUCT PEDESTAL USING CLASS A CEMENT CONCRETE IN ACCORDANCE WITH SECTION 704.

AINAGE DETAILS	PENNSYLVANIA TURNPIKE COMMISSION STANDARD DRAWING	
	FILE NAME: PTS-124-6.dwg DRAWING TYPE: 5A	SHEET 6 OF 6
	DATE:NOVEMBER 2023	PTS-124



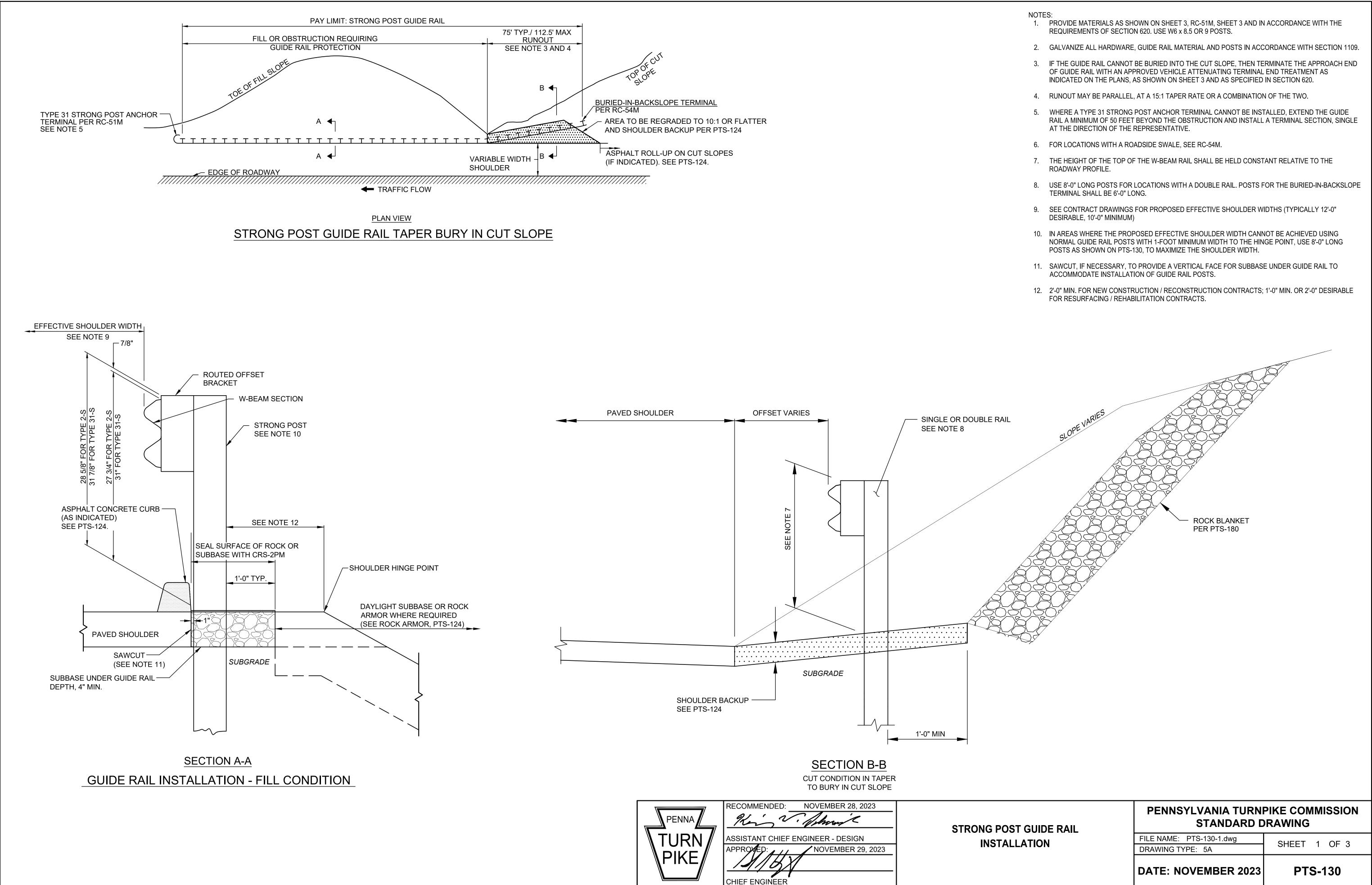


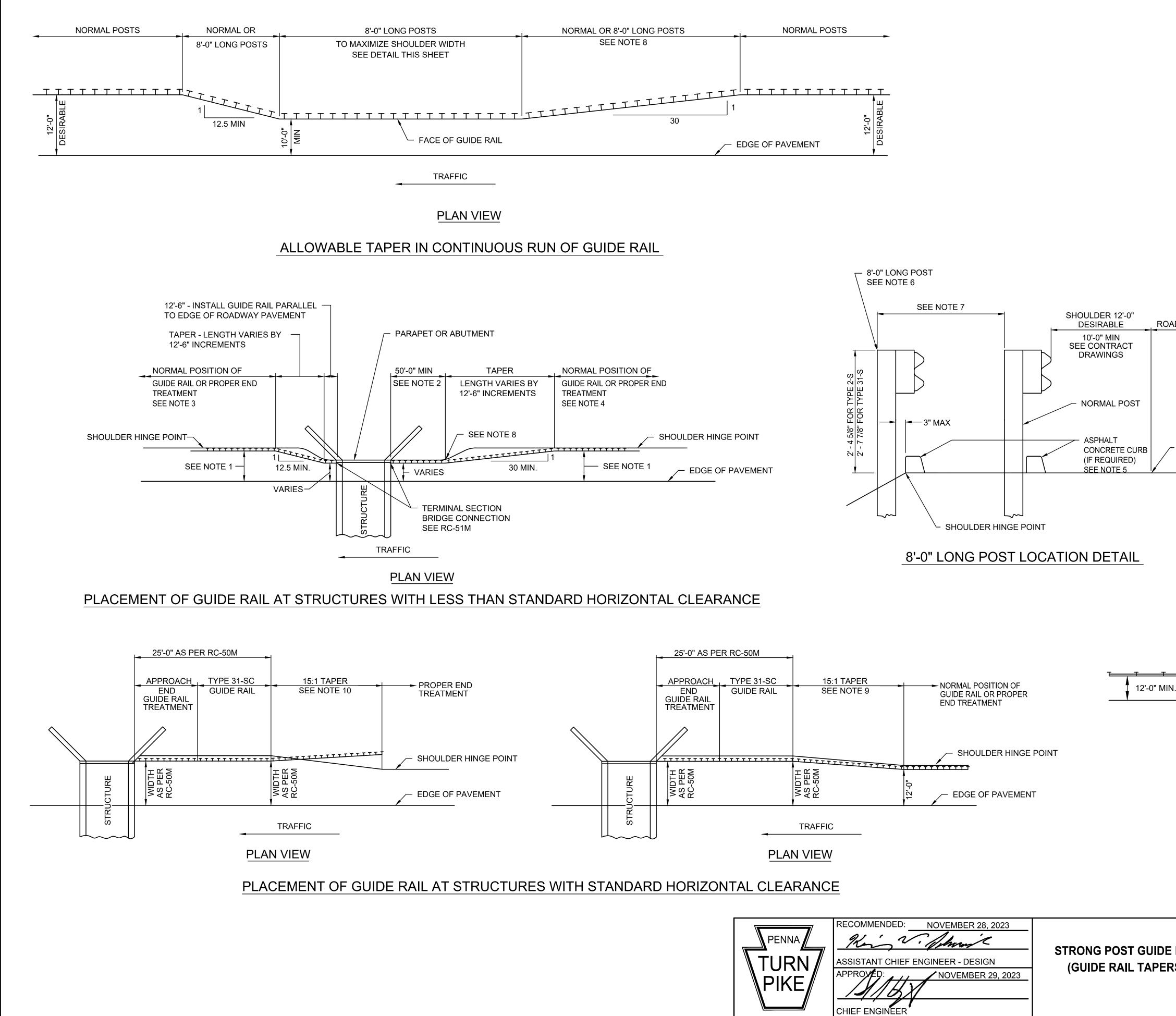
DATE:	APRIL	2022

FILE NAME: PTS-125.dwg

DRAWING TYPE: 5A

SHEET 1 OF 1





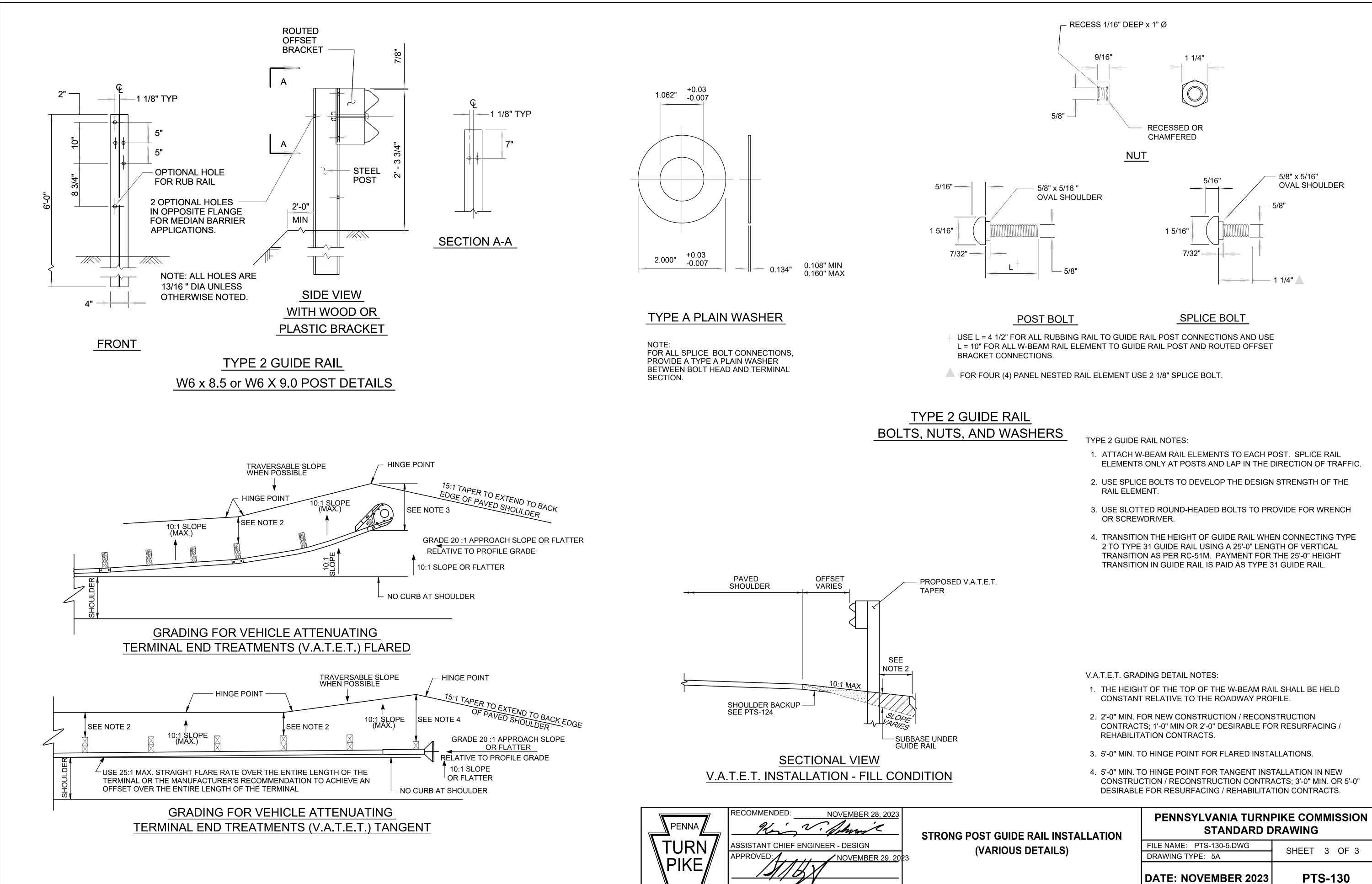
NOT 1.	ES: 12'-0" DESIRABLE, 10'-0" MIN, SEE CONTRACT DRAWINGS FOR PROPOSED SHOULDER WIDTH.
2.	INSTALL GUIDE RAIL PARALLEL TO EDGE OF ROADWAY PAVEMENT. SEE CONTRACT DRAWINGS FOR ATTACHMENT TO STRUCTURE.
3.	GUIDE RAIL IS NOT REQUIRED ON TRAILING ENDS OF STRUCTURES UNLESS WARRANTED BY OTHER OBSTRUCTIONS.
4.	INSTALL MINIMUM OF 25 FEET OF STRONG POST GUIDE RAIL PARALLEL TO EDGE OF ROADWAY IF A VEHICLE ATTENUATING TERMINAL (V.A.T.E.T.) END TREATMENT IS TO BE USED ALONG EDGE OF SHOULDER.
5.	IF REQUIRED, CONSTRUCT ASPHALT CONCRETE CURB PARALLEL TO THE GUIDE RAIL ALIGNMENT, AS SHOWN ON PTS-124.
6.	USE W6 x 8.5 OR 9 POSTS IN ACCORDANCE WITH RC-51M, 8'-0" LENGTH.
7.	IF 1'-0" MINIMUM CLEAR WIDTH CANNOT BE MAINTAINED BEHIND THE NORMAL GUIDE RAIL POST FOR THE PROPER SHOULDER WIDTH, THEN USE 8'-0" LONG POSTS IN THIS AREA.
8.	INSTALL A OM-3R "RIGHT CLEARANCE MARKER" AT THE POINT WHERE THE GUIDE RAIL TAPER BEGINS. HEIGHT = 18 INCHES FROM TOP OF GUIDE RAIL TO BOTTOM OF SIGN.
9.	TRANSITION HORIZONTAL OFFSET FROM RC-50M TO THE 12'-0"

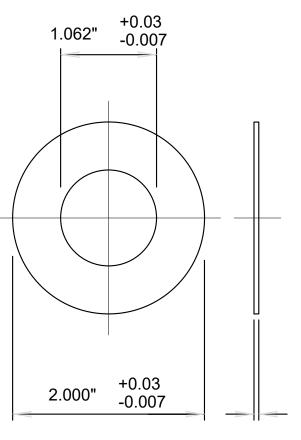
ROADWAY

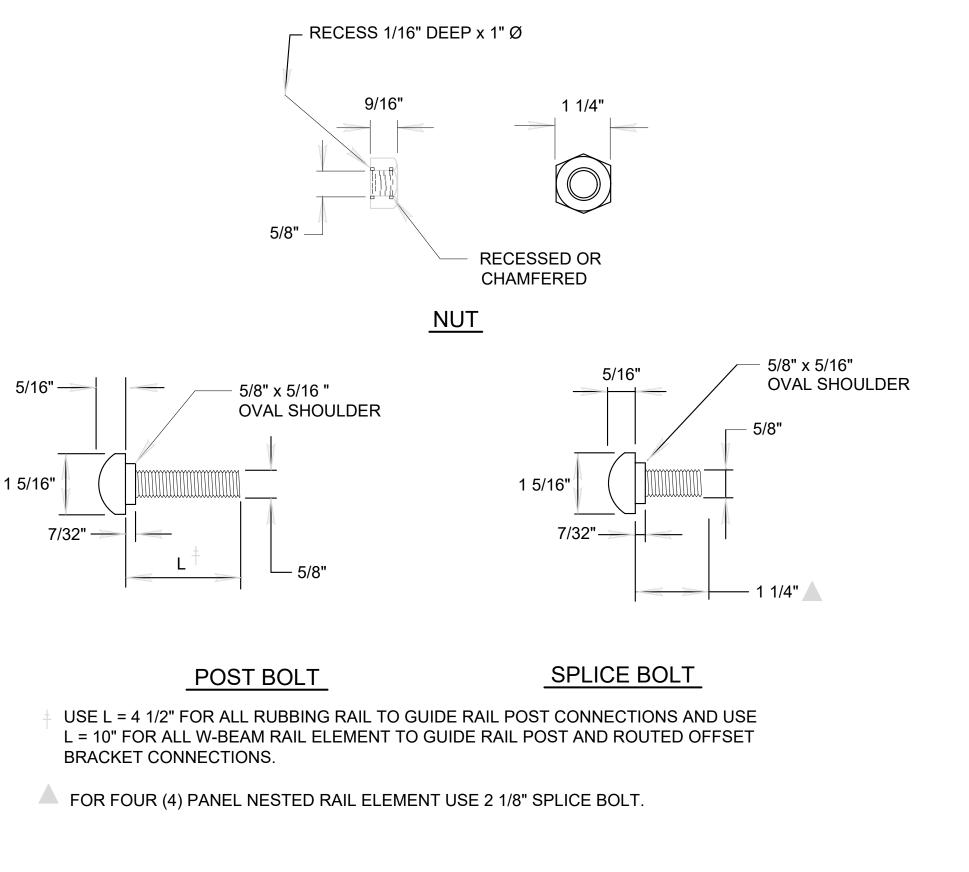
10. MAINTAIN 2'-7" HEIGHT OF RAIL. PROVIDE PROPER END TREATMENT. DO NOT INSTALL A V.A.T.E.T. ON LESS THAN 100' TAPER.

CLEARANCE CONSISTENTLY OVER 100'.

- EDGE OF PAVEMENT			
195'-0" MIN		G POST ANCHOR TERMINAL	
	SEE RC-51M	3 POST ANCHOR TERMINAL	
T 15:1 T	APER 12'-0" MIN.		
	TYPE 31 STRONG POST	ANCHOR TERMINAL	
TRAFFIC	GRADE 10:1 OR ELATTE	R AND SHOULDER BACKUP	
SEE PTS-124			
PLAN VIEW			
MAINTENANCE OPENING			
<u></u>			
RAIL INSTALLATION	PENNSYLVANIA TURN STANDARD D		
S & LONG POSTS)	FILE NAME: PTS-130-2.dwg DRAWING TYPE: 5A	SHEET 2 OF 3	
	DATE: NOVEMBER 2023	PTS-130	

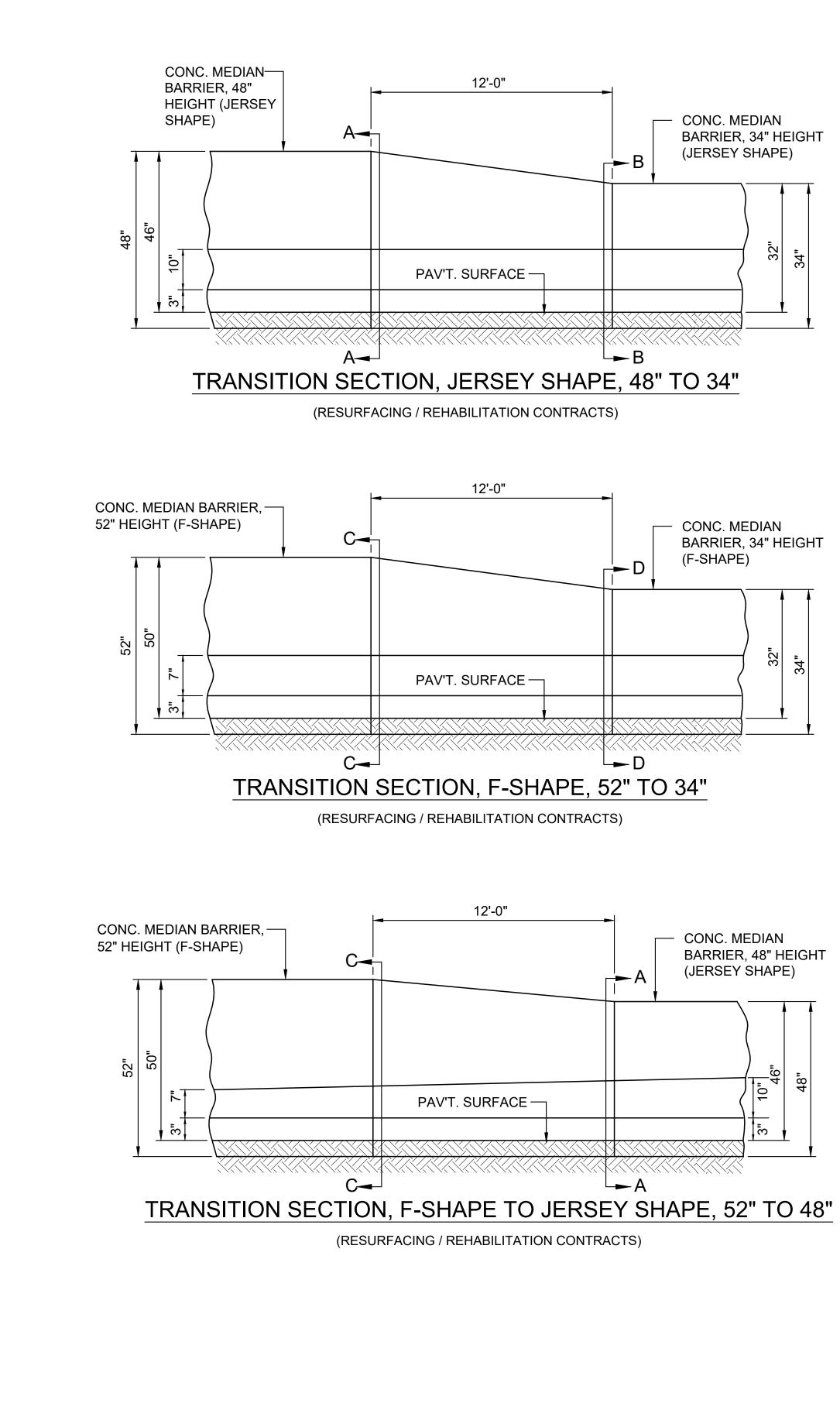


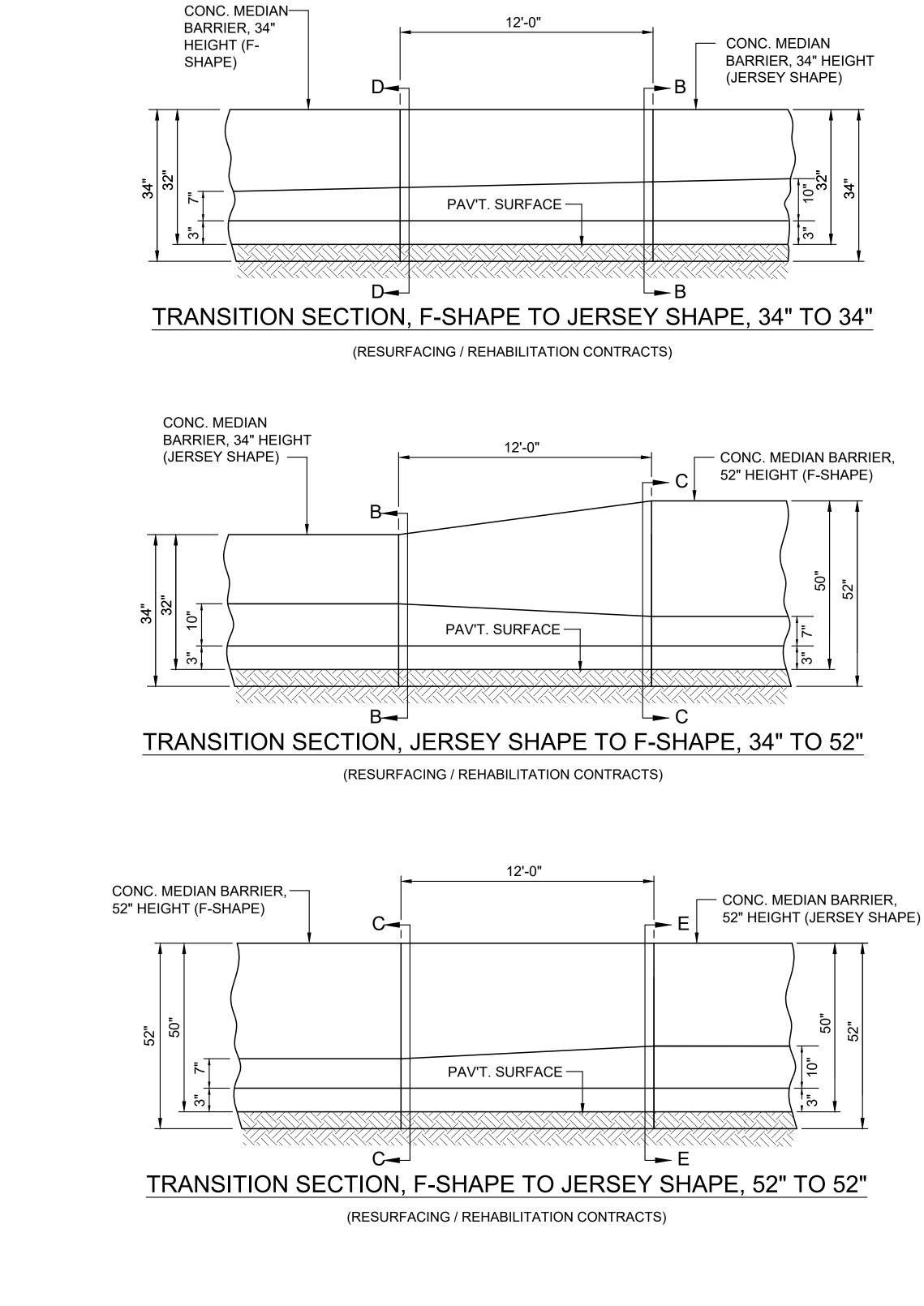




CHIEF ENGINEEF

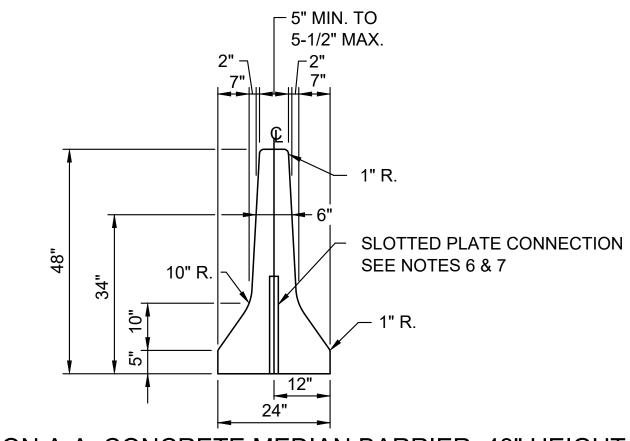
RAIL INSTALLATION	STANDARD D	
DETAILS)	FILE NAME: PTS-130-5.DWG	SHEET 3 OF 3
DETAILS)	DRAWING TYPE: 5A	SHEET 5 01 5
	DATE: NOVEMBER 2023	PTS-130



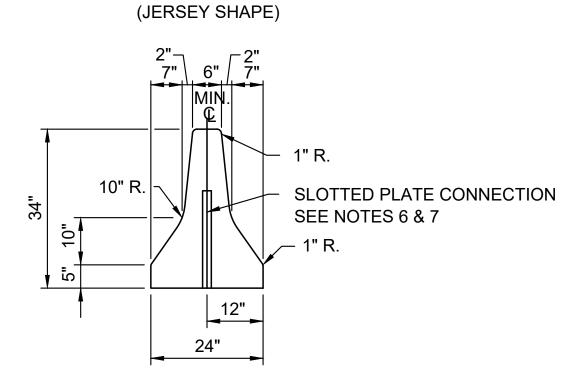


	RECOMMENDED: NOVEMBER 28, 2023	
PENNA	Rom V. Jehnic	CONCRETE ME
	ASSISTANT CHIEF ENGINEER - DESIGN	TRANSITIO
	APPROVED: NOVEMBER 29, 2023	
	/ <i>X</i> // <i>H</i> X/	
	CHIEF ENGINEER	

EDIAN BARRIER	PENNSYLVANIA TURNPIKE COMMISSION STANDARD DRAWING	
N SECTIONS	FILE NAME: PTS-140-1.dwg DRAWING TYPE: 5A	SHEET 1 OF 3
	DATE:NOVEMBER 2023	PTS-140

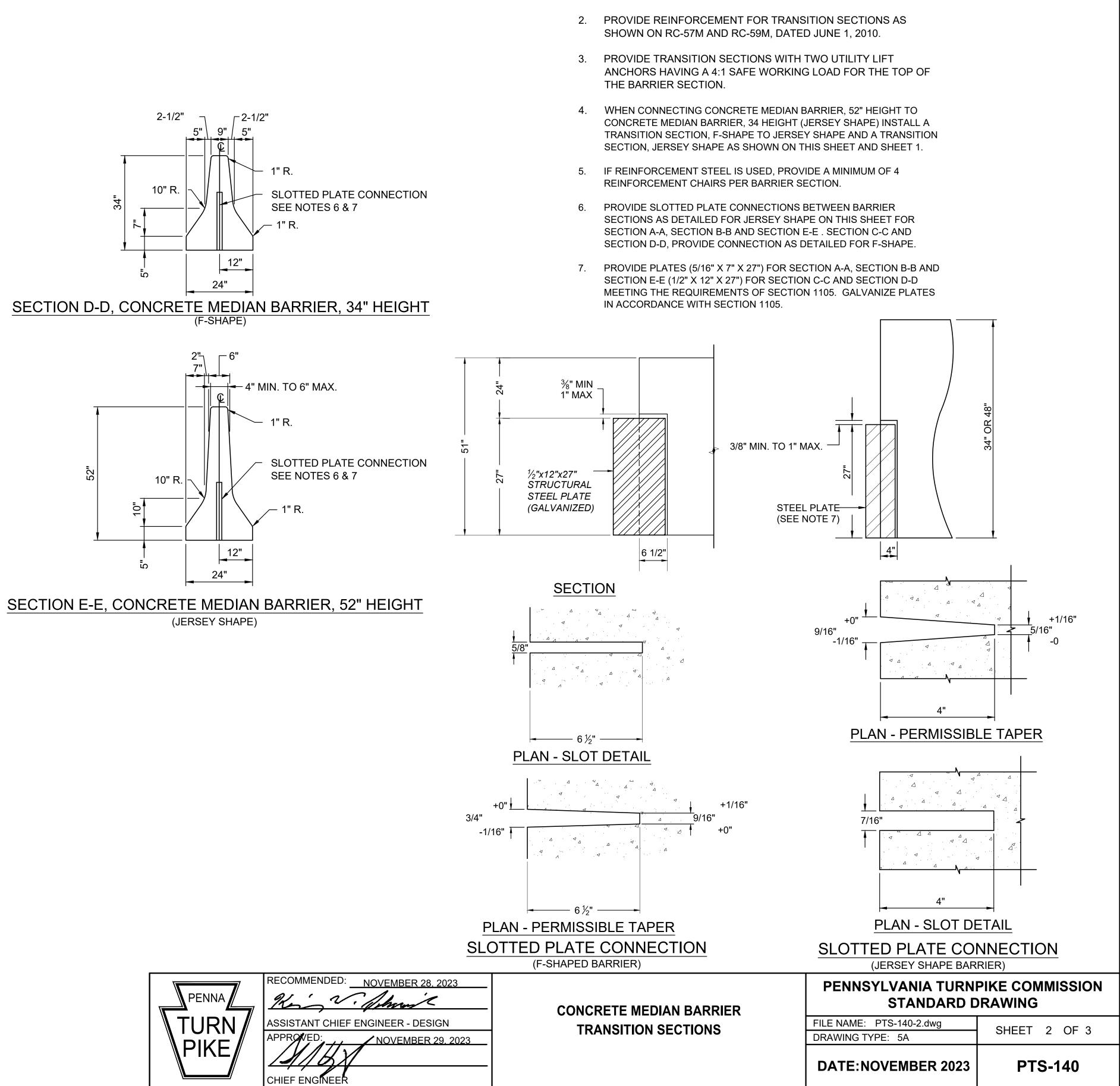


SECTION A-A, CONCRETE MEDIAN BARRIER, 48" HEIGHT

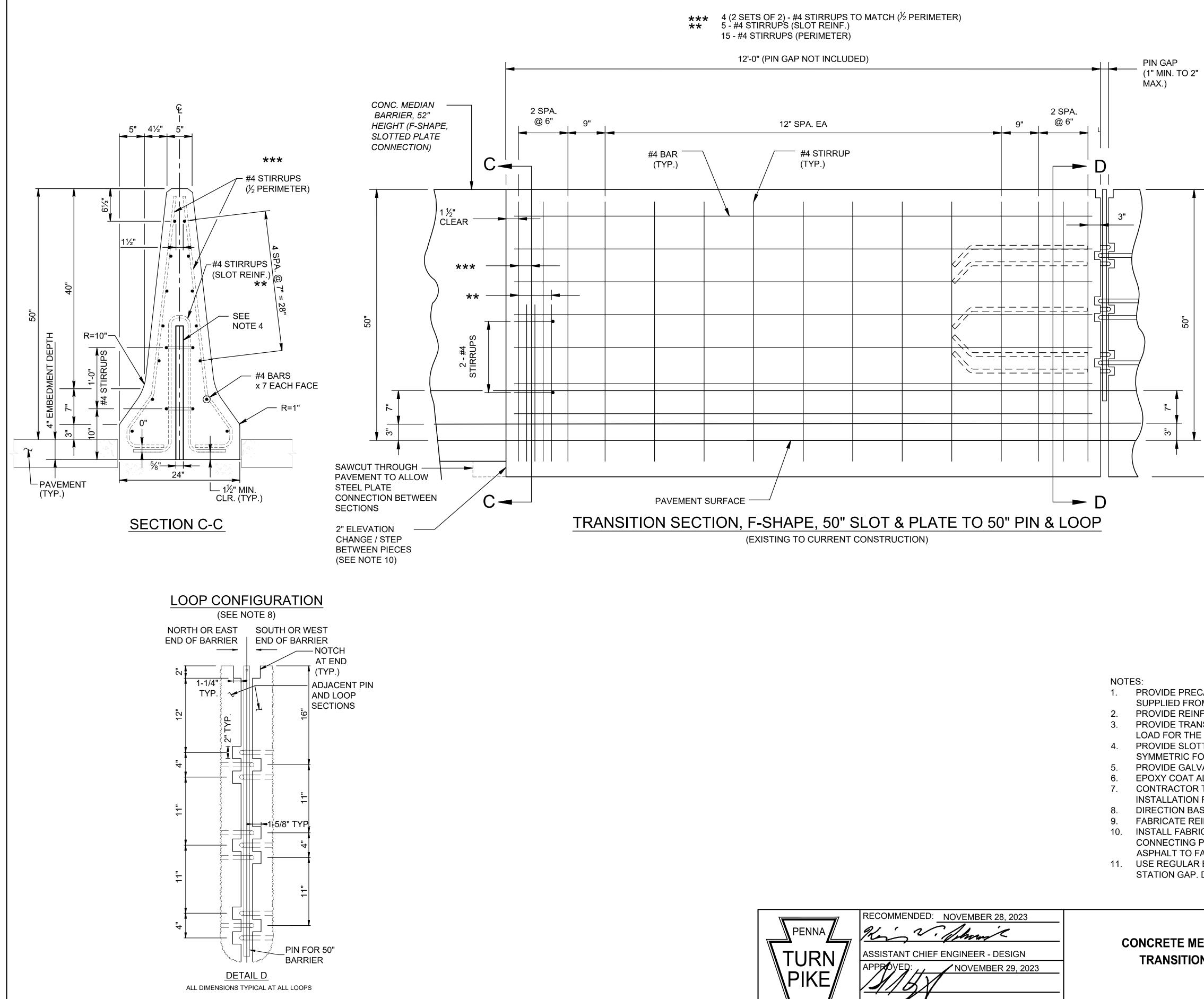


SECTION B-B, CONCRETE MEDIAN BARRIER, 34" HEIGHT

(JERSEY SHAPE) 1" R. SLOTTED PLATE CONNECTION SEE NOTES 6 & 7 10" R. 12" 24" SECTION C-C, CONCRETE MEDIAN BARRIER, 52" HEIGHT (F-SHAPE)



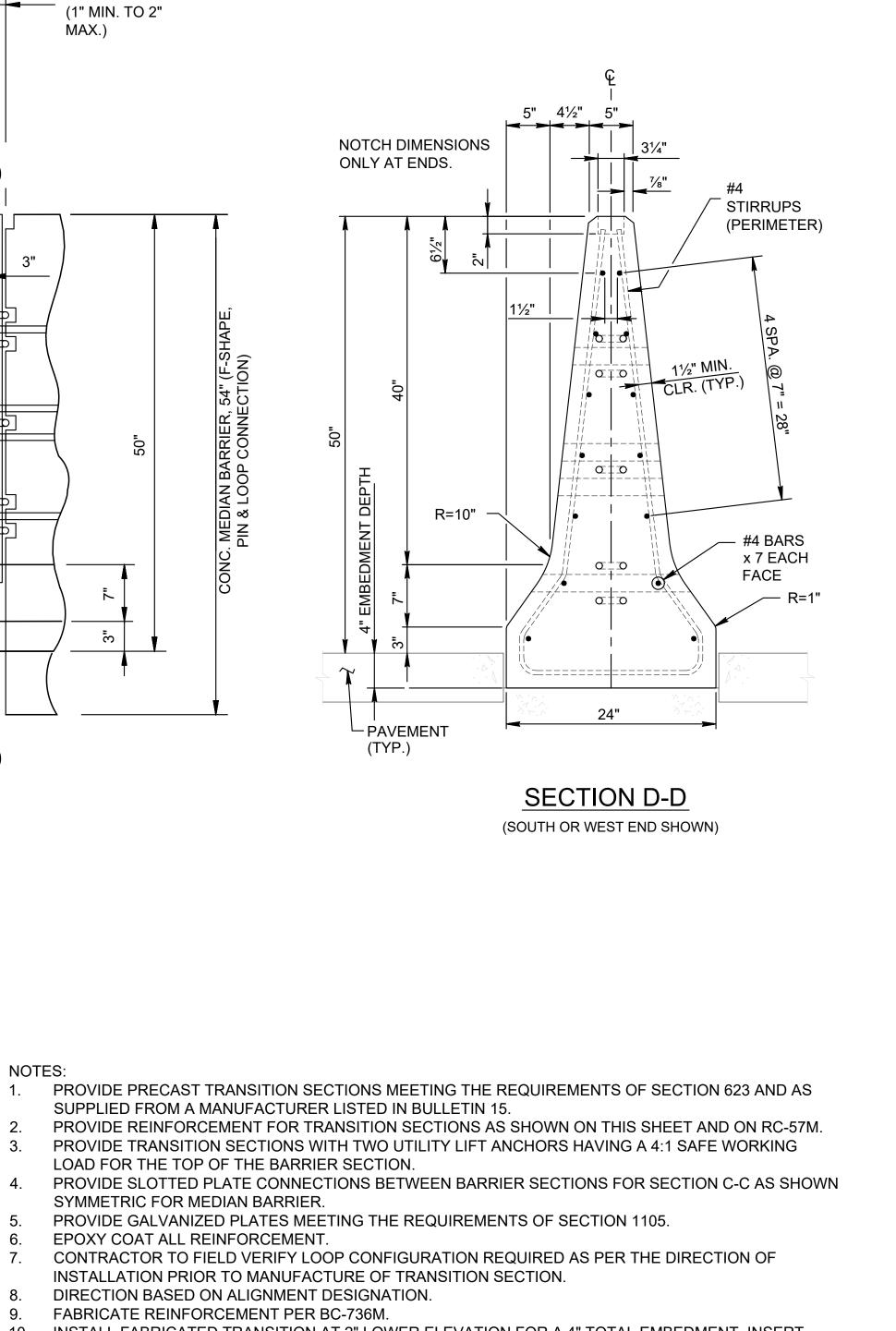
1. PROVIDE PRECAST TRANSITION SECTIONS MEETING THE REQUIREMENTS OF SECTION 623 AND SUPPLIED BY A MANUFACTURER LISTED IN BULLETIN 15.



SYMMETRIC FOR MEDIAN BARRIER. EPOXY COAT ALL REINFORCEMENT.

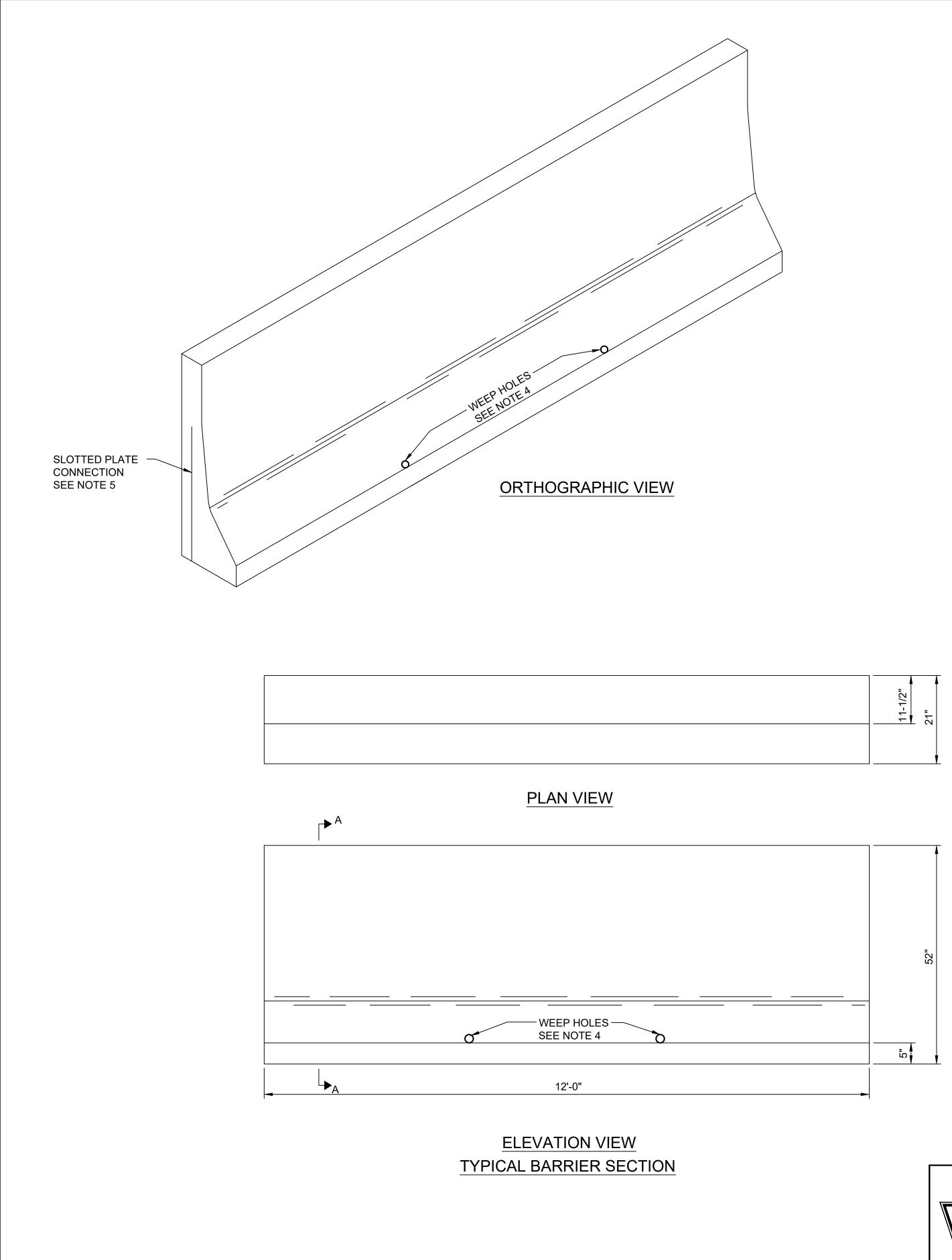
PENNA	RECOMMENDED: NOVEMBER 28, 2023
TURN PIKE	ASSISTANT CHIEF ENGINEER - DESIGN APPROVED: NOVEMBER 29, 2023 CHIEF ENGINEER

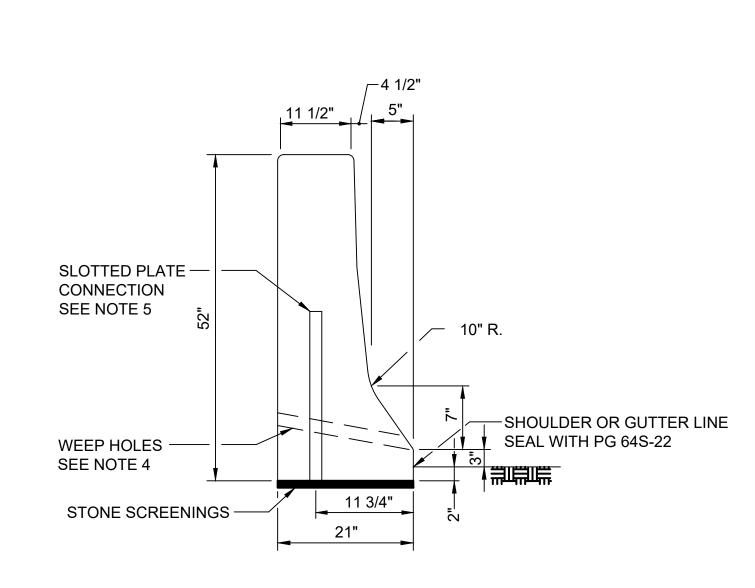
CONCRETE ME



10. INSTALL FABRICATED TRANSITION AT 2" LOWER ELEVATION FOR A 4" TOTAL EMBEDMENT. INSERT CONNECTING PLATE INTO ADJACENT BARRIER SLOT. SAWCUT VERTICALLY INTO THE ADJACENT ASPHALT TO FACILITATE THE PLATE INSTALLATION WHICH MUST BE AT THE LOWER ELEVATION. 11. USE REGULAR BARRIER PIN AND LOOP LENGTH > 12' TO MAKE STATION ADJUSTMENT AND CLOSE A STATION GAP. DO NOT USE THIS TRANSITION PIECE.

EDIAN BARRIER	PENNSYLVANIA TURNPIKE COMMISSION STANDARD DRAWING		
N SECTIONS	FILE NAME: PTS-140-3.dwg	SHEET 3 OF 3	
SECTIONS	DRAWING TYPE: 5A	SHEET 5 OF 5	
	DATE:NOVEMBER 2023	PTS-140	



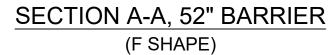




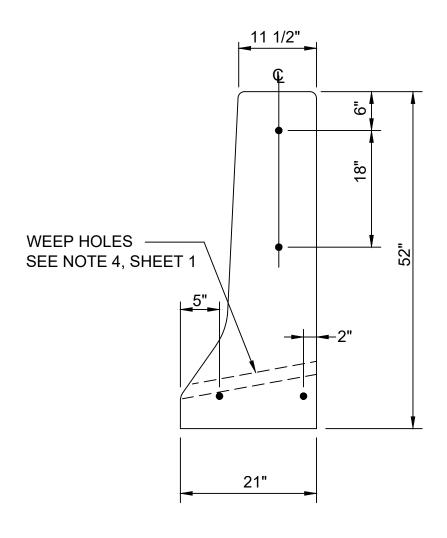
SINGLE FACE CONC (52" BARRIER

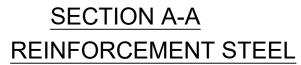
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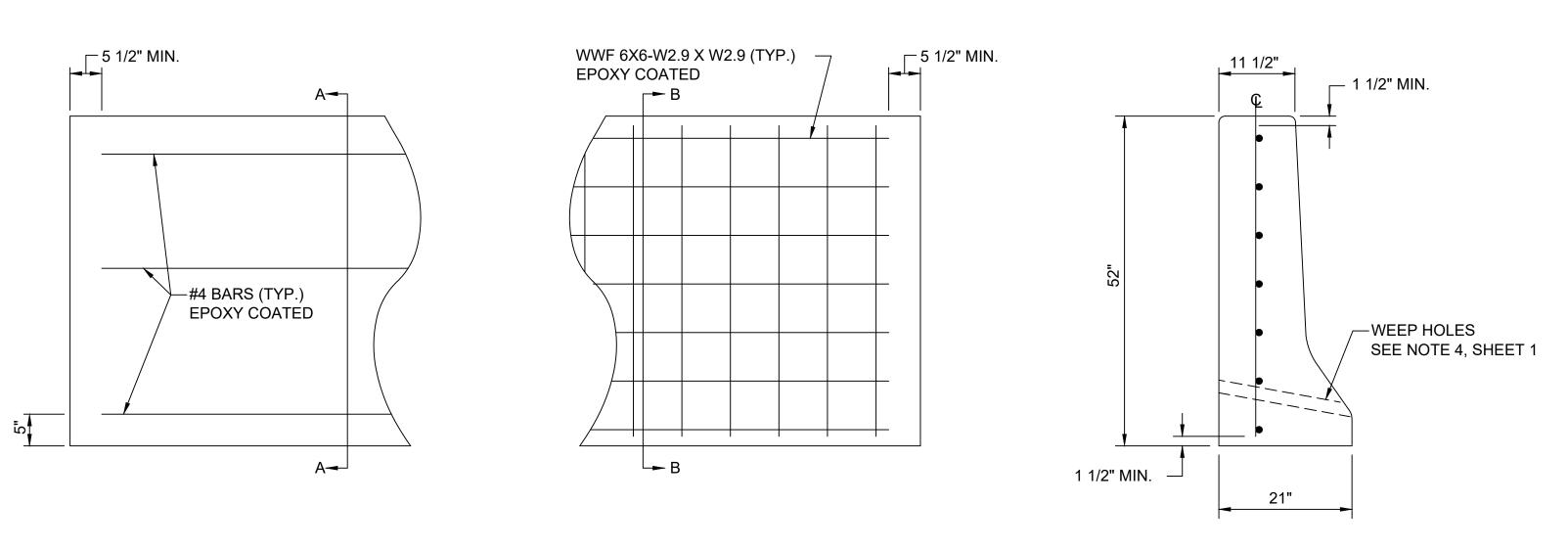
- 1. PROVIDE SINGLE FACE CONCRETE BARRIER MEETING THE REQUIREMENTS OF SECTION 623 AND SUPPLIED BY A MANUFACTURER LISTED IN BULLETIN 15.
- 2. PROVIDE REINFORCEMENT FOR 52" SINGLE FACE CONCRETE BARRIER AS SHOWN ON SHEET 2 OF 5.
- 3. PROVIDE SINGLE FACE CONCRETE BARRIER SECTIONS WITH TWO UTILITY LIFT ANCHORS HAVING A 4:1 SAFE WORKING LOAD FOR THE TOP OF THE BARRIER SECTION.
- 4. PROVIDE SINGLE FACE CONCRETE BARRIER SECTIONS WITH TWO EQUALLY SPACED 2 INCH DIAMETER WEEP HOLES WHICH OUTLET 5 INCHES FROM THE BASE OF THE BARRIER (12 INCHES FROM THE BASE FOR SECTIONS OF DEEP BASE SINGLE FACE CONCRETE BARRIER AS SHOWN ON SHEET 4 OF 5). GROUT WEEP HOLES IN SINGLE FACE CONCRETE BARRIER INSTALLED ADJACENT TO BRIDGE ABUTMENTS OR OVER PAVEMENT BASE DRAIN.
- 5. PROVIDE SLOTTED PLATE CONNECTIONS BETWEEN BARRIER SECTIONS AS SHOWN ON RC-58M. REINFORCE SLOT AS SHOWN ON RC-58M.
- 6. PROVIDE PLATES (1/2" X 12" X 27") MEETING THE REQUIREMENTS OF SECTION 1105. GALVANIZE PLATES AS SPECIFIED IN SECTION 1105.
- 7. ROUND OR CHAMFER HORIZONTAL EDGES WITH A RADIUS OF 1" EXCEPT AS SHOWN.



CRETE BARRIER	PENNSYLVANIA TURNPIKE COMMISSION STANDARD DRAWING		
DETAILS)	FILE NAME: PTS-142-1.dwg DRAWING TYPE: 5A	SHEET 1 OF 5	
	DATE:SEPTEMBER 2022	PTS-142	

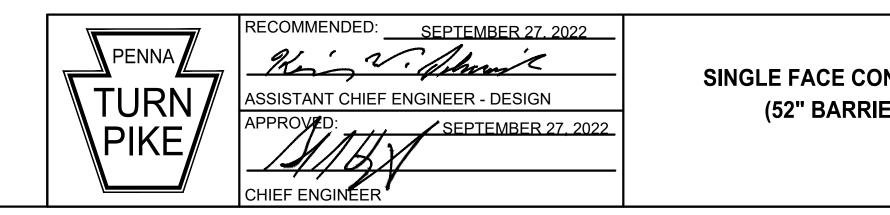






TYPICAL REINFORCEMENT DETAILS FOR 52" BARRIER

SEE RC-58M FOR LOCATION OF SLOTTED PLATE **CONNECTIONS & STIRRUPS**

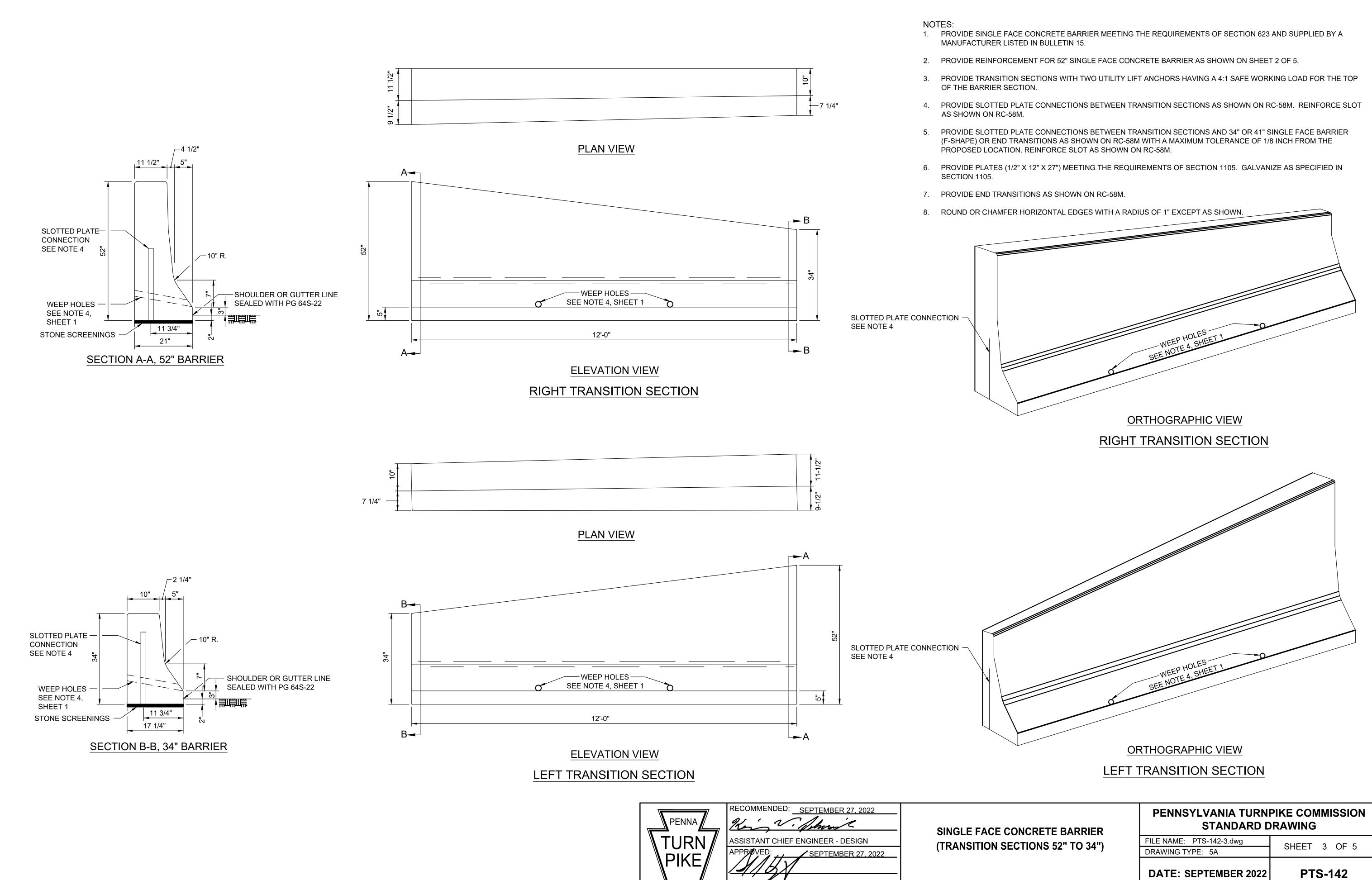


NOTES:

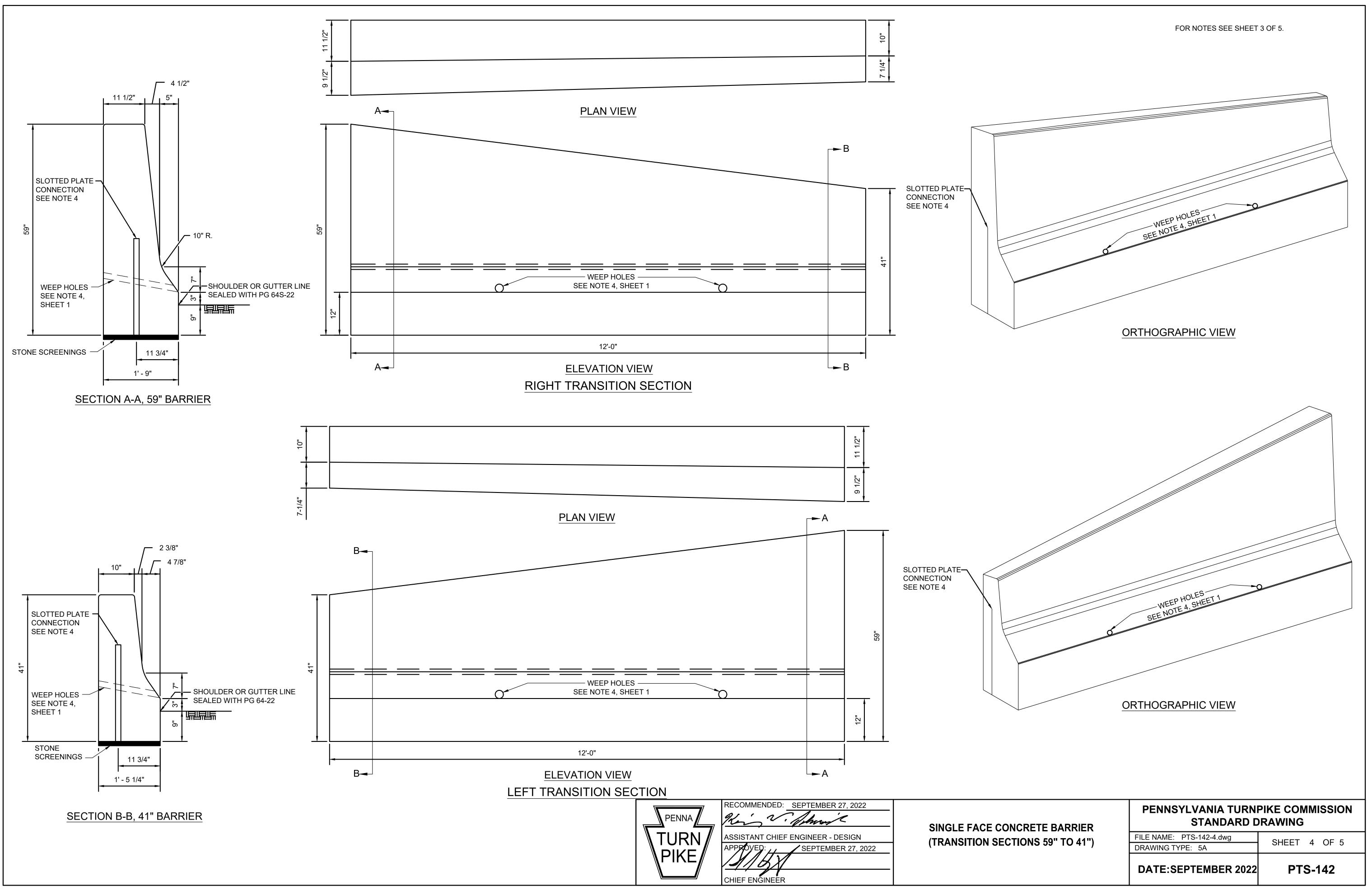
- 1. PROVIDE REINFORCEMENT MEETING THE REQUIREMENTS OF SECTION 709, WITH A MINIMUM CONCRETE COVER OF 1 1/2-INCHES OR AS SHOWN HERE.
- 2. IF REINFORCEMENT STEEL IS USED, PROVIDE A MINIMUM OF 4 REINFORCEMENT CHAIRS PER BARRIER SECTION.

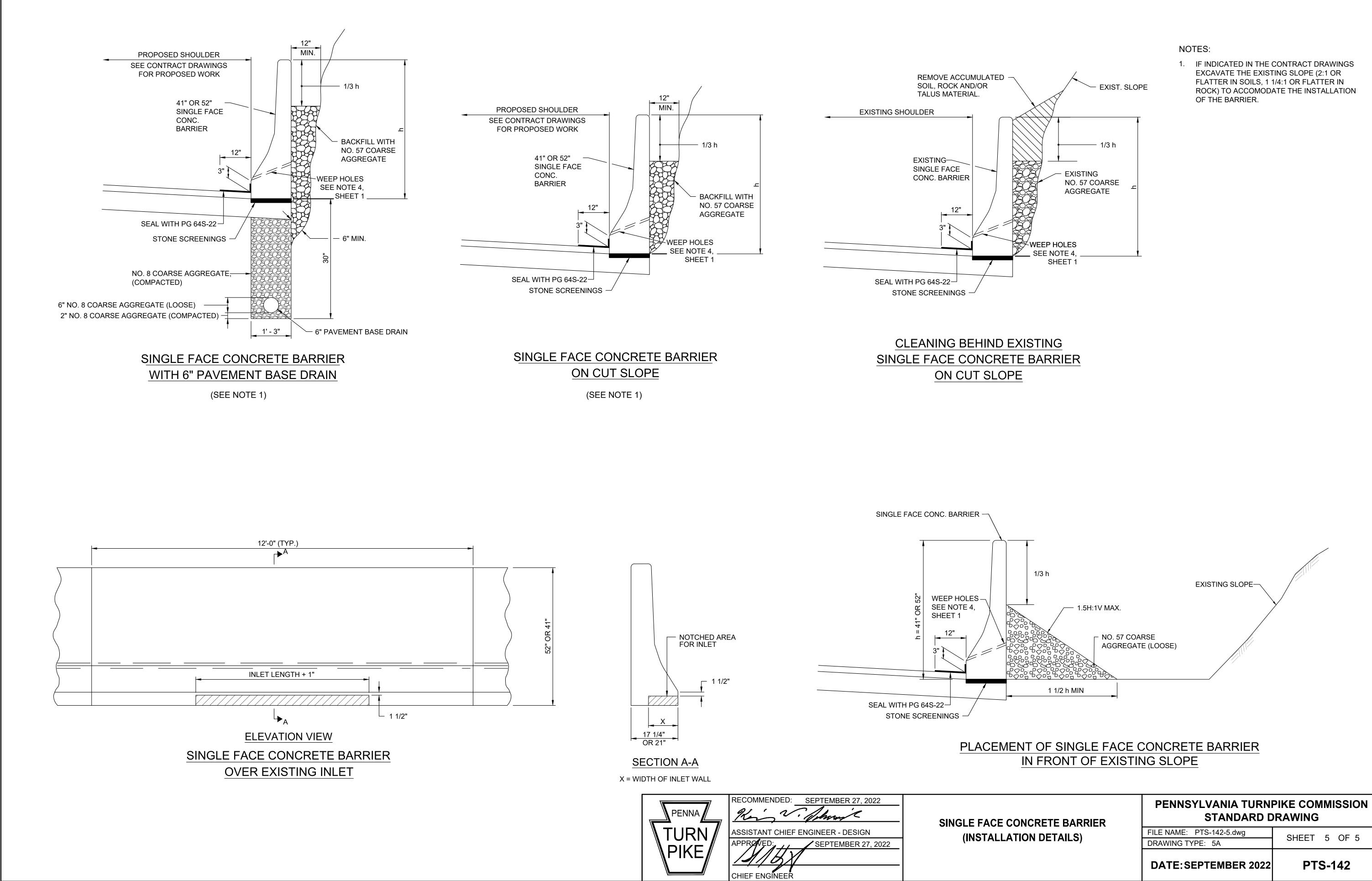
SECTION B-B WELDED WIRE FABRIC

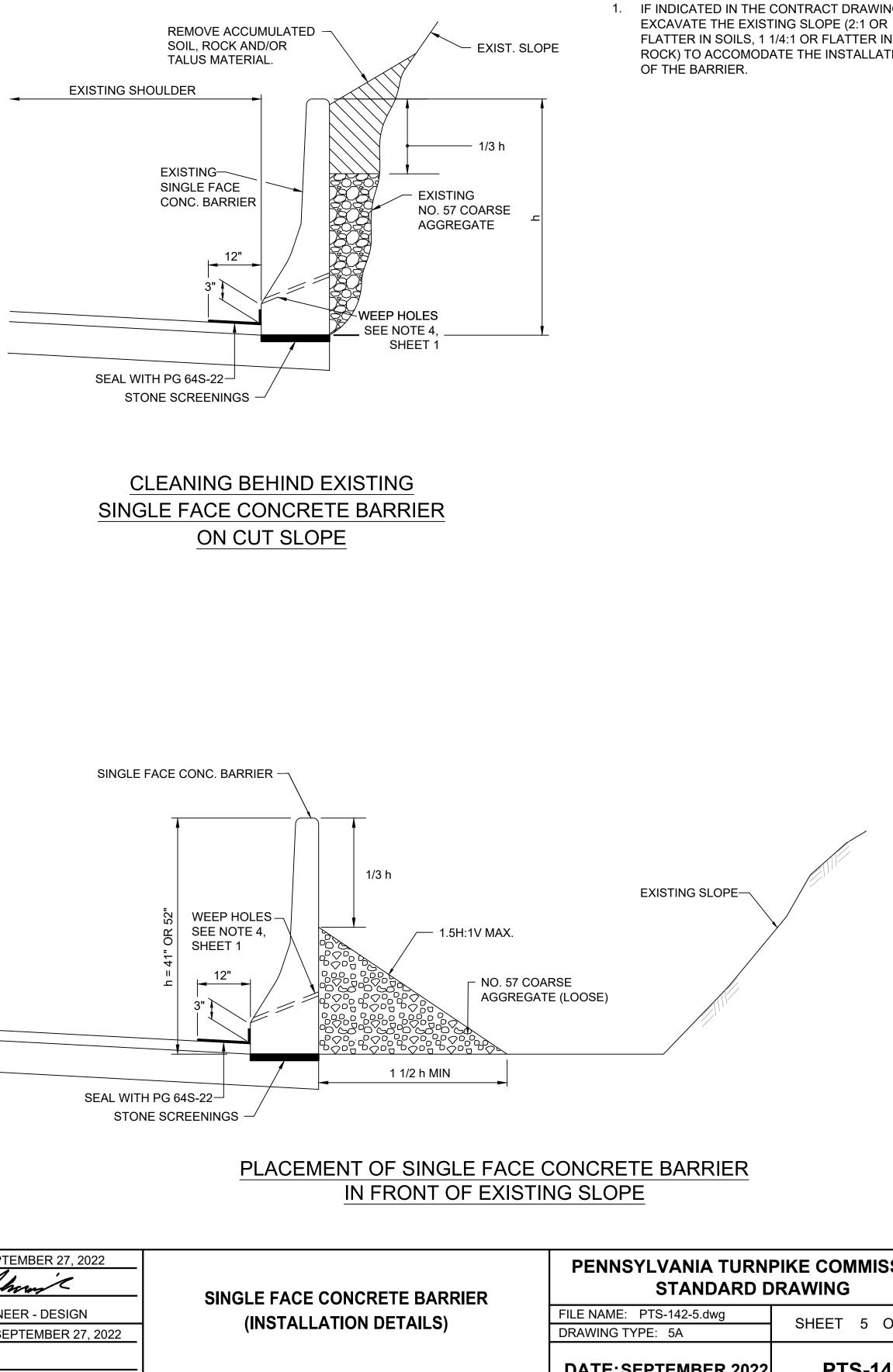
ONCRETE BARRIER	PENNSYLVANIA TURNPIKE COMMISSION STANDARD DRAWING	
IER DETAILS)	FILE NAME: PTS-142-2.dwg	SHEET 2 OF 5
	DRAWING TYPE: 5A	
	DATE:SEPTEMBER 2022	PTS-142

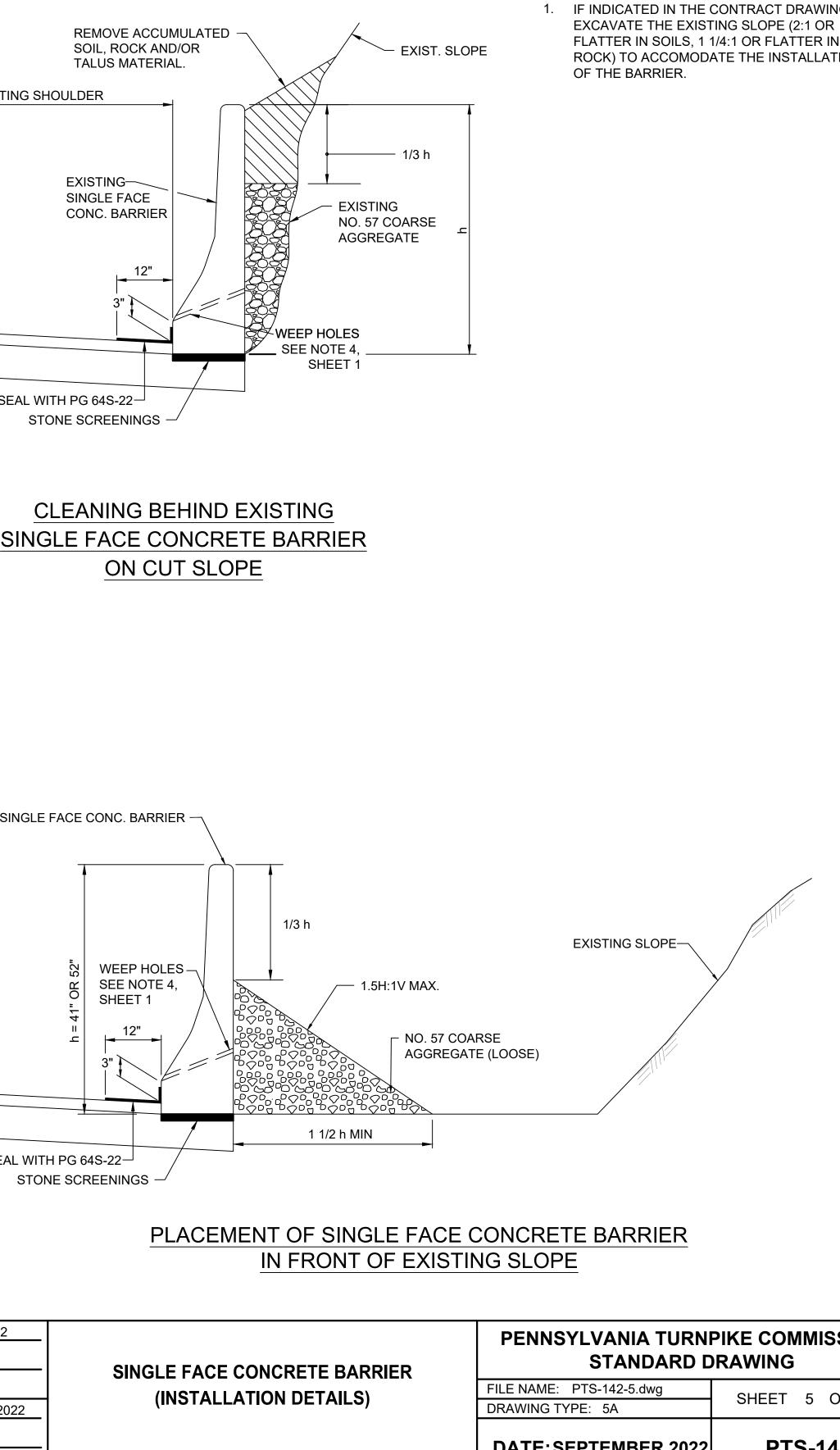


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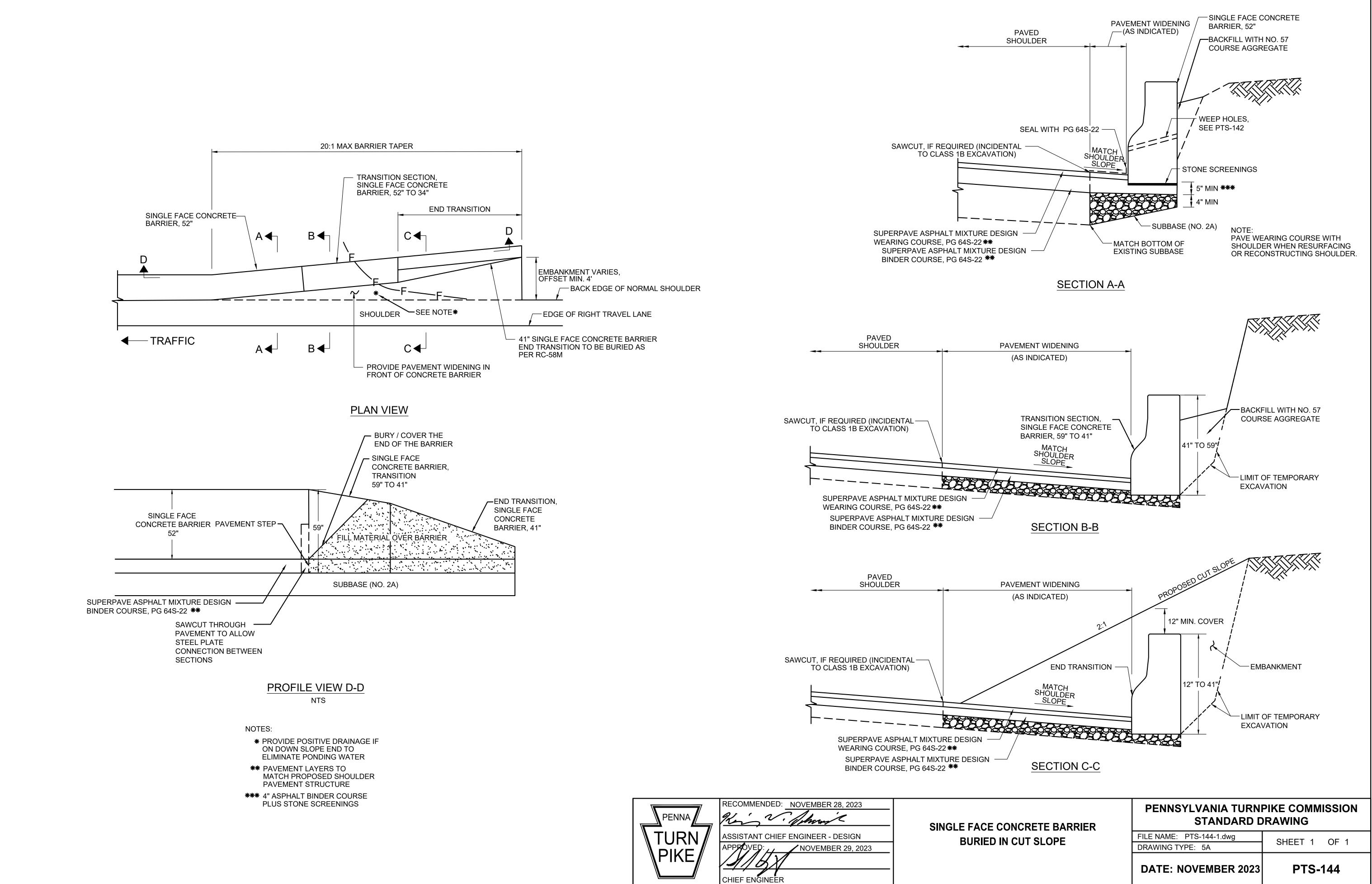


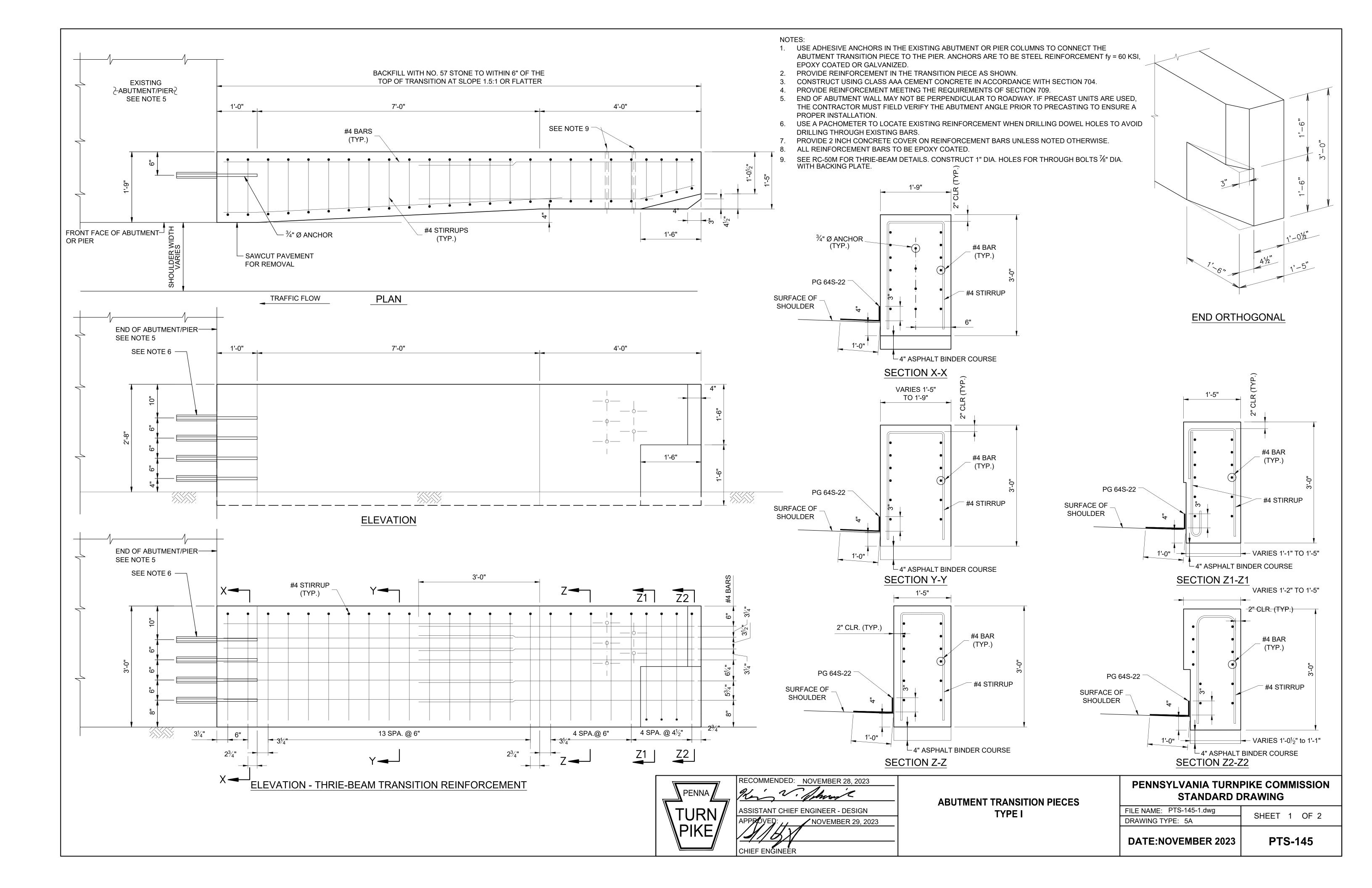


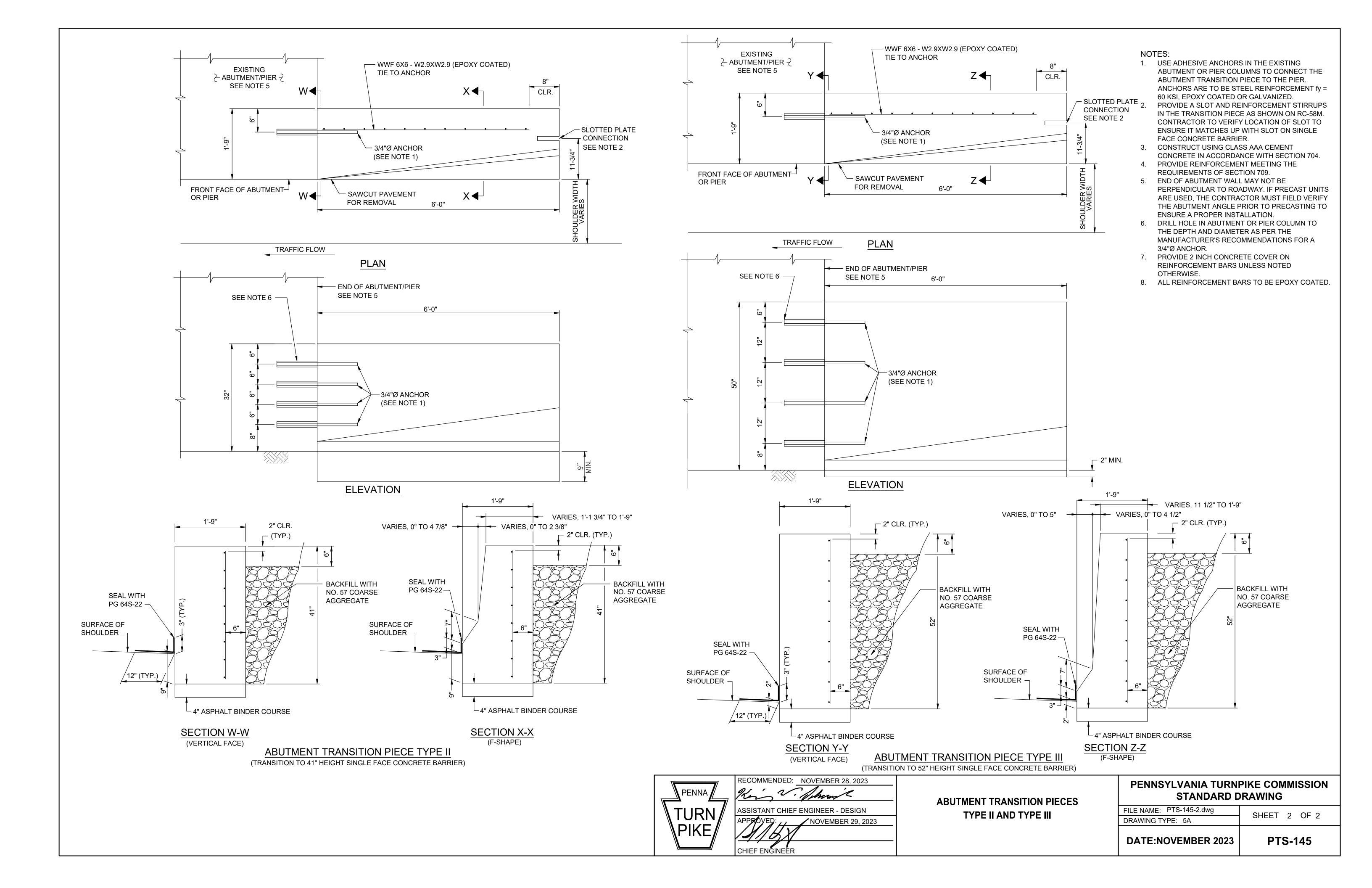




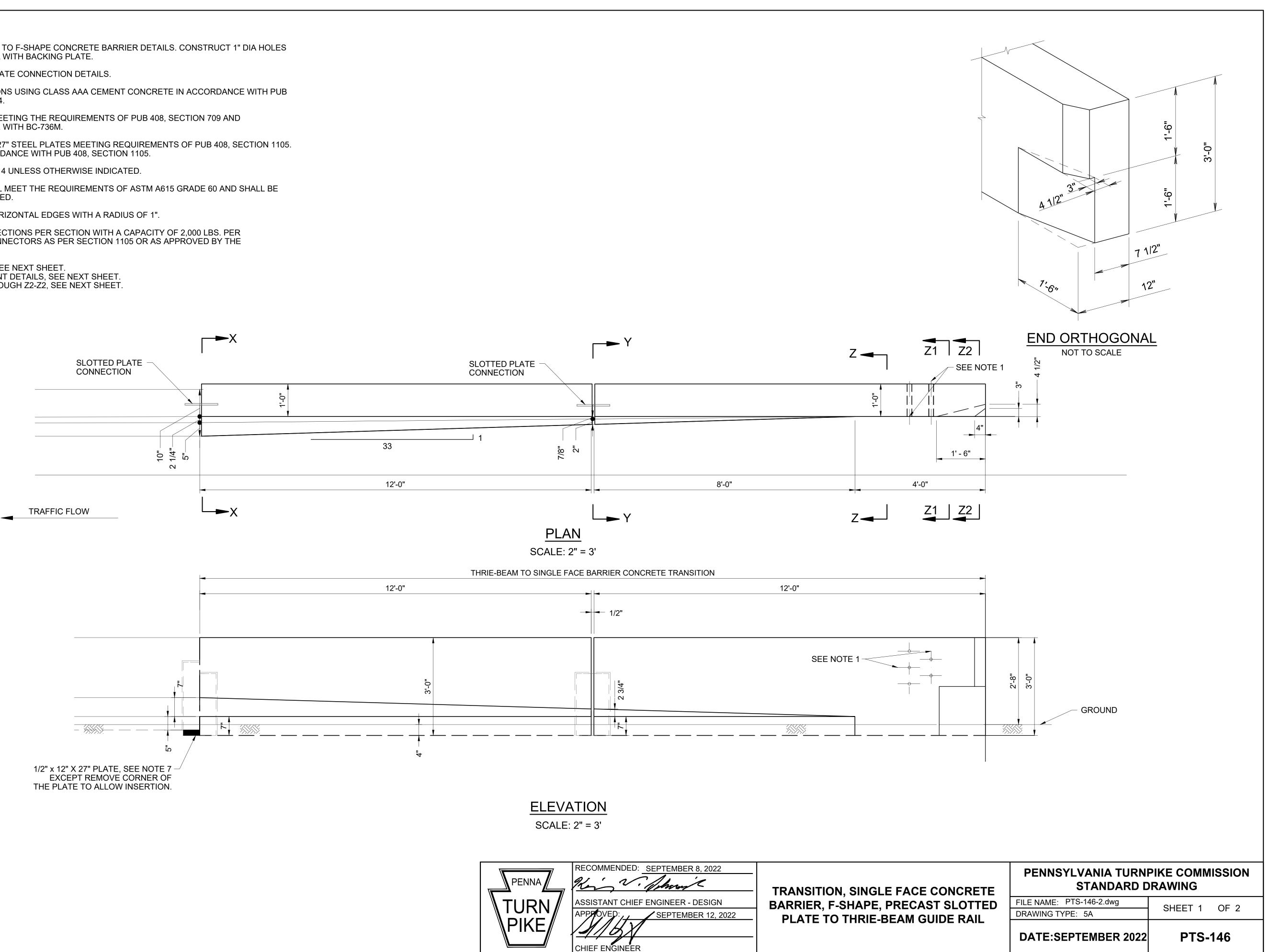


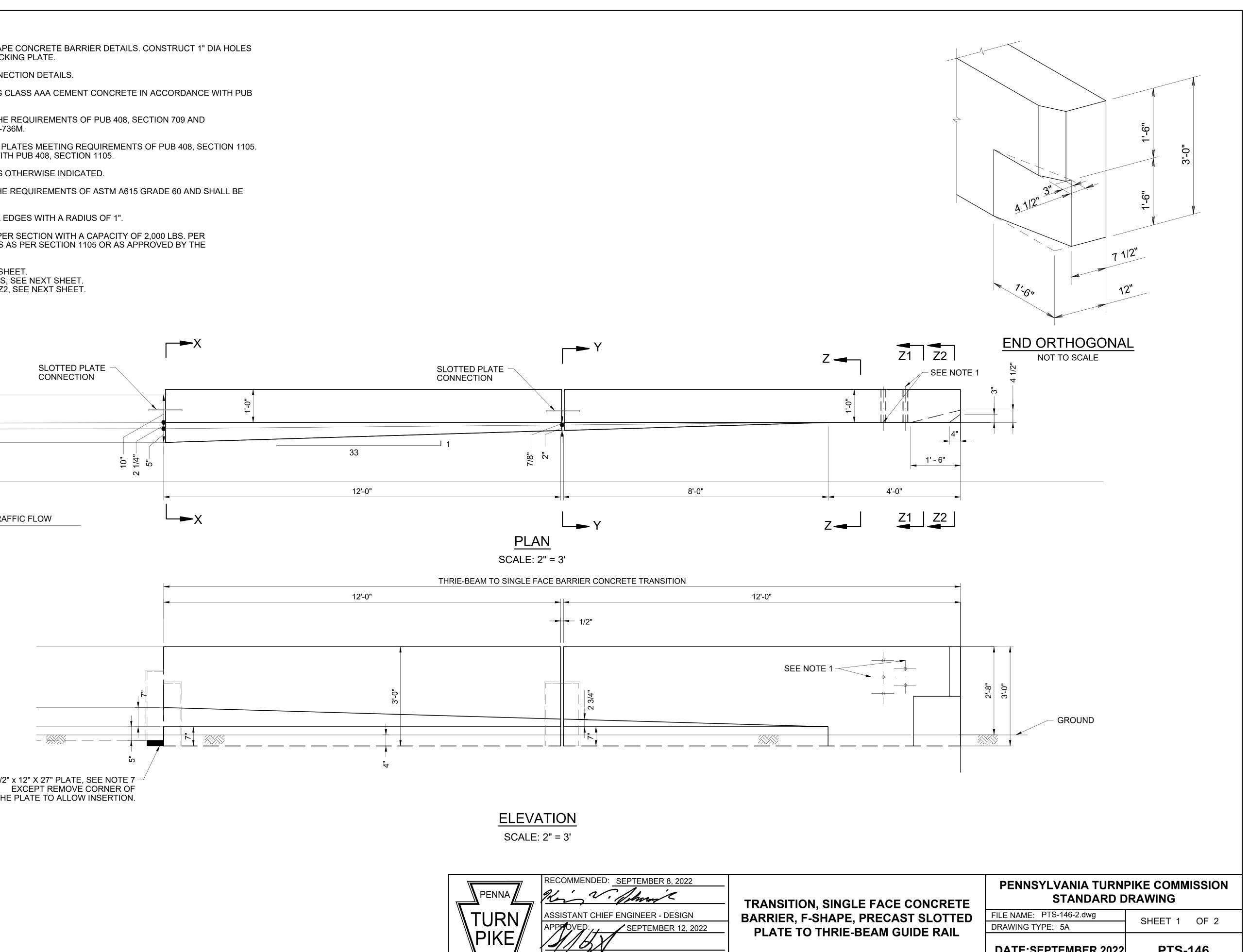


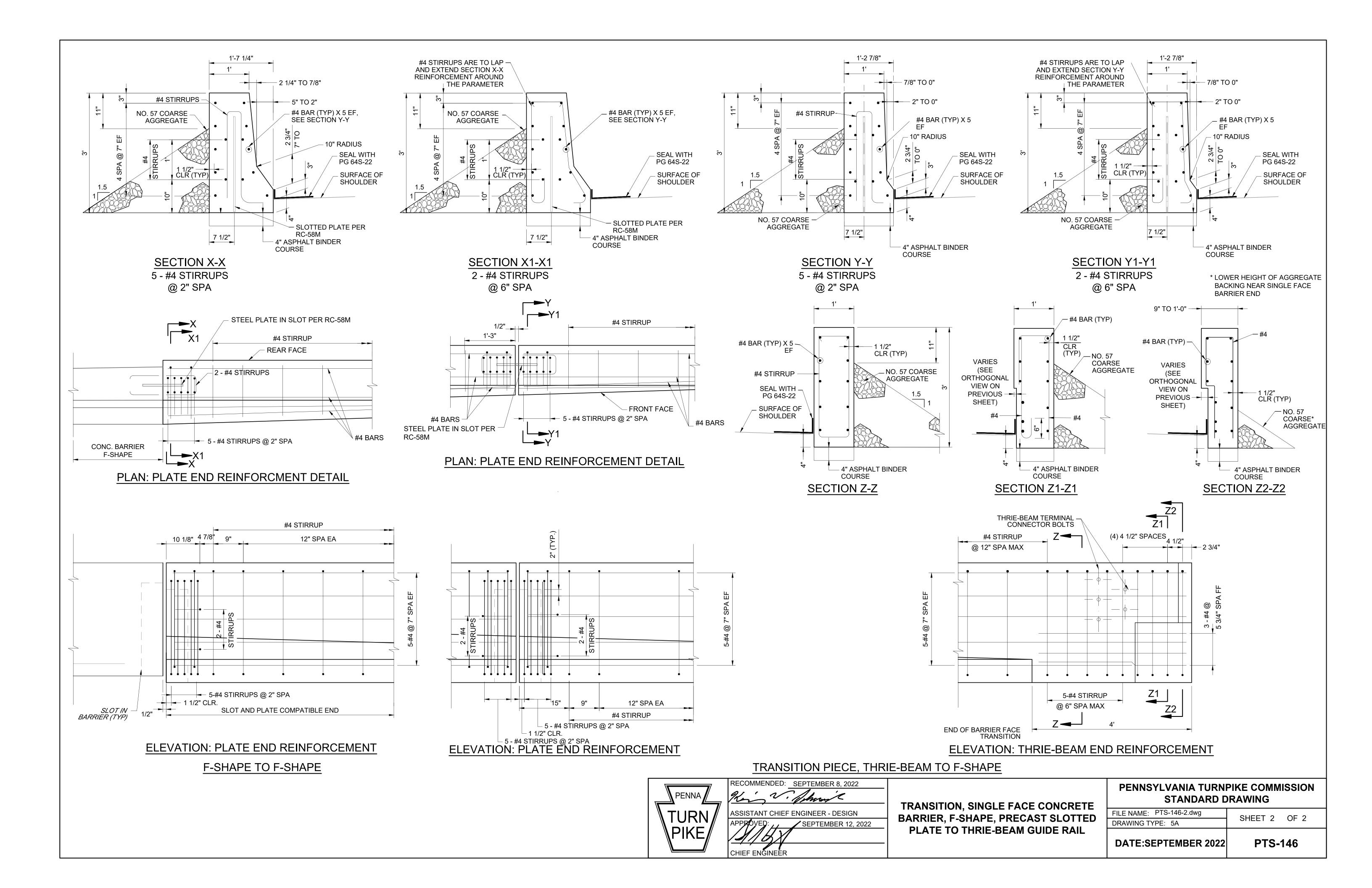


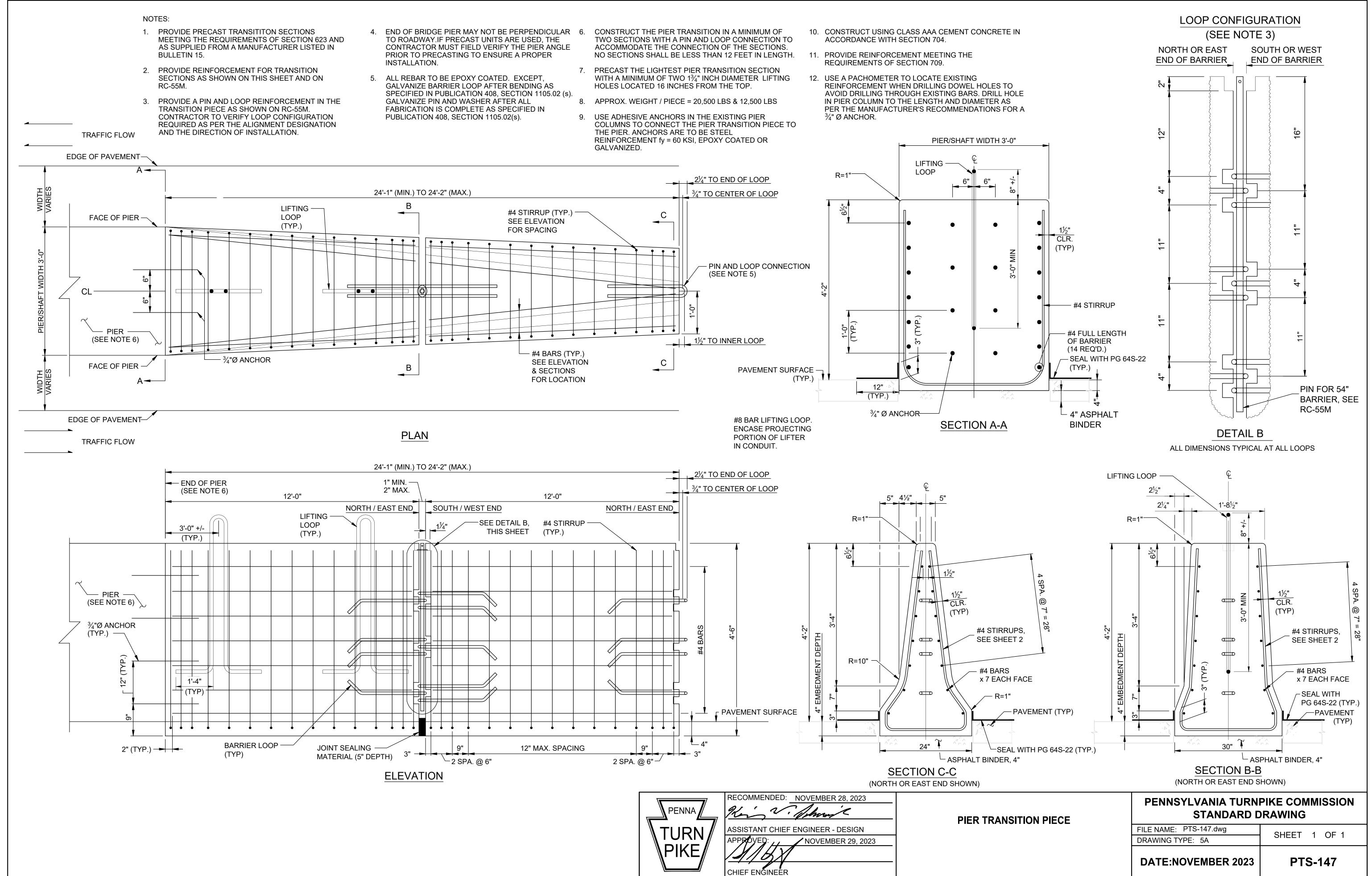


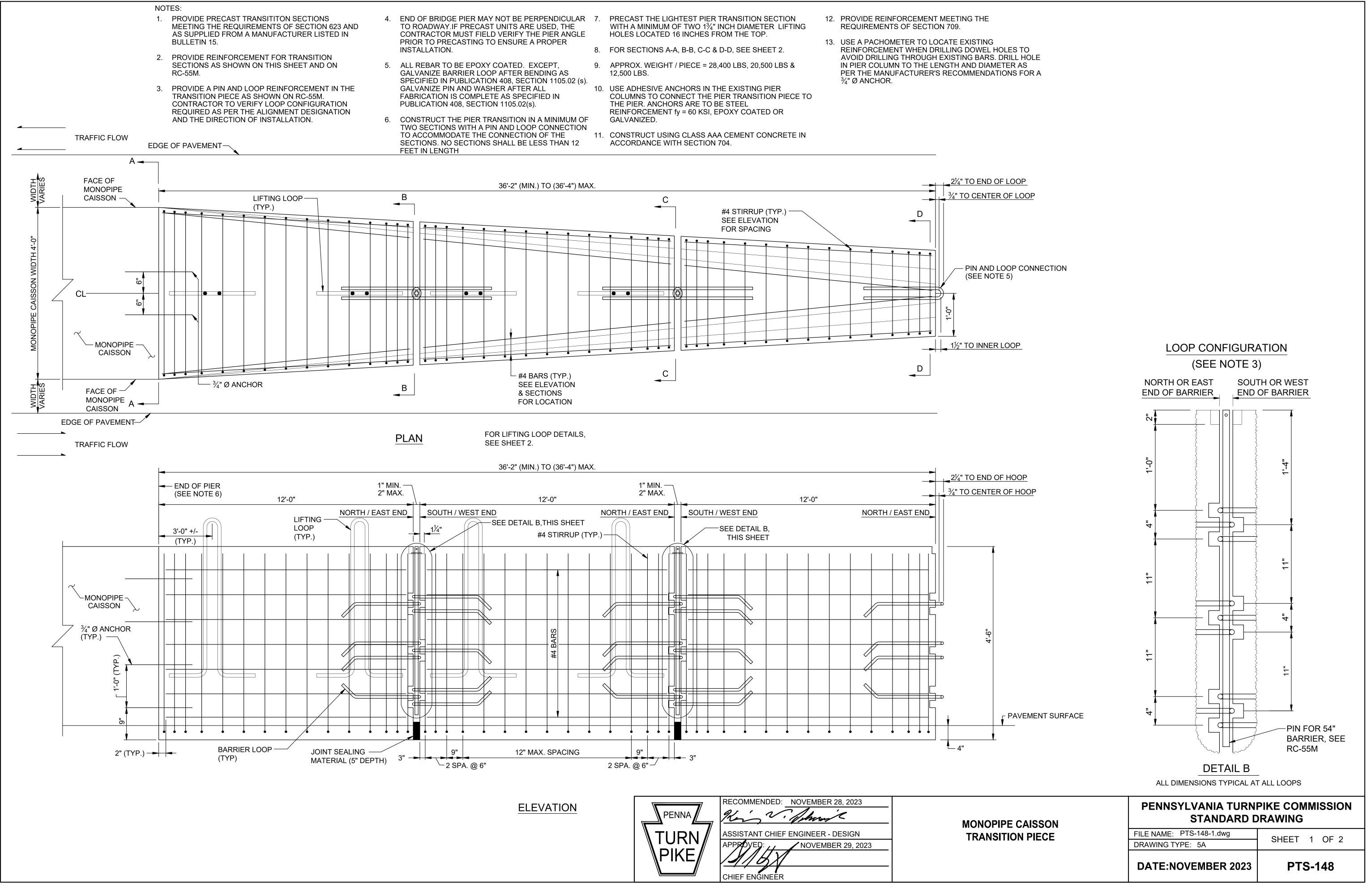
- 1. SEE RC-50M FOR THRIE-BEAM TO F-SHAPE CONCRETE BARRIER DETAILS. CONSTRUCT 1" DIA HOLES FOR THROUGH BOLTS 7/8" DIA WITH BACKING PLATE.
- 2. SEE RC-58M FOR SLOTTED PLATE CONNECTION DETAILS.
- 3. CONSTRUCT BARRIER SECTIONS USING CLASS AAA CEMENT CONCRETE IN ACCORDANCE WITH PUB 408, SECTION 704, 711 AND 714.
- 4. PROVIDE REINFORCEMENT MEETING THE REQUIREMENTS OF PUB 408, SECTION 709 AND FABRICATED IN ACCORDANCE WITH BC-736M.
- 5. PROVIDE TWO (2) 1/2" X 12" X 27" STEEL PLATES MEETING REQUIREMENTS OF PUB 408, SECTION 1105. GALVANIZE PLATES IN ACCORDANCE WITH PUB 408, SECTION 1105.
- 6. ALL REINFORCEMENTS IS NO. 4 UNLESS OTHERWISE INDICATED.
- 7. REINFORCEMENT BARS SHALL MEET THE REQUIREMENTS OF ASTM A615 GRADE 60 AND SHALL BE EPOXY COATED OR GALVANIZED.
- 8. ROUND OR CHAMFER THE HORIZONTAL EDGES WITH A RADIUS OF 1".
- 9. PROVIDE TWO LIFTING CONNECTIONS PER SECTION WITH A CAPACITY OF 2,000 LBS. PER CONNECTOR. GALVANIZE CONNECTORS AS PER SECTION 1105 OR AS APPROVED BY THE REPRESENTATIVE.
- * FOR CONNECTION DETAILS, SEE NEXT SHEET.
- FOR SECTION REINFORCEMENT DETAILS, SEE NEXT SHEET. * FOR SECTION VIEWS X-X THROUGH Z2-Z2, SEE NEXT SHEET. *

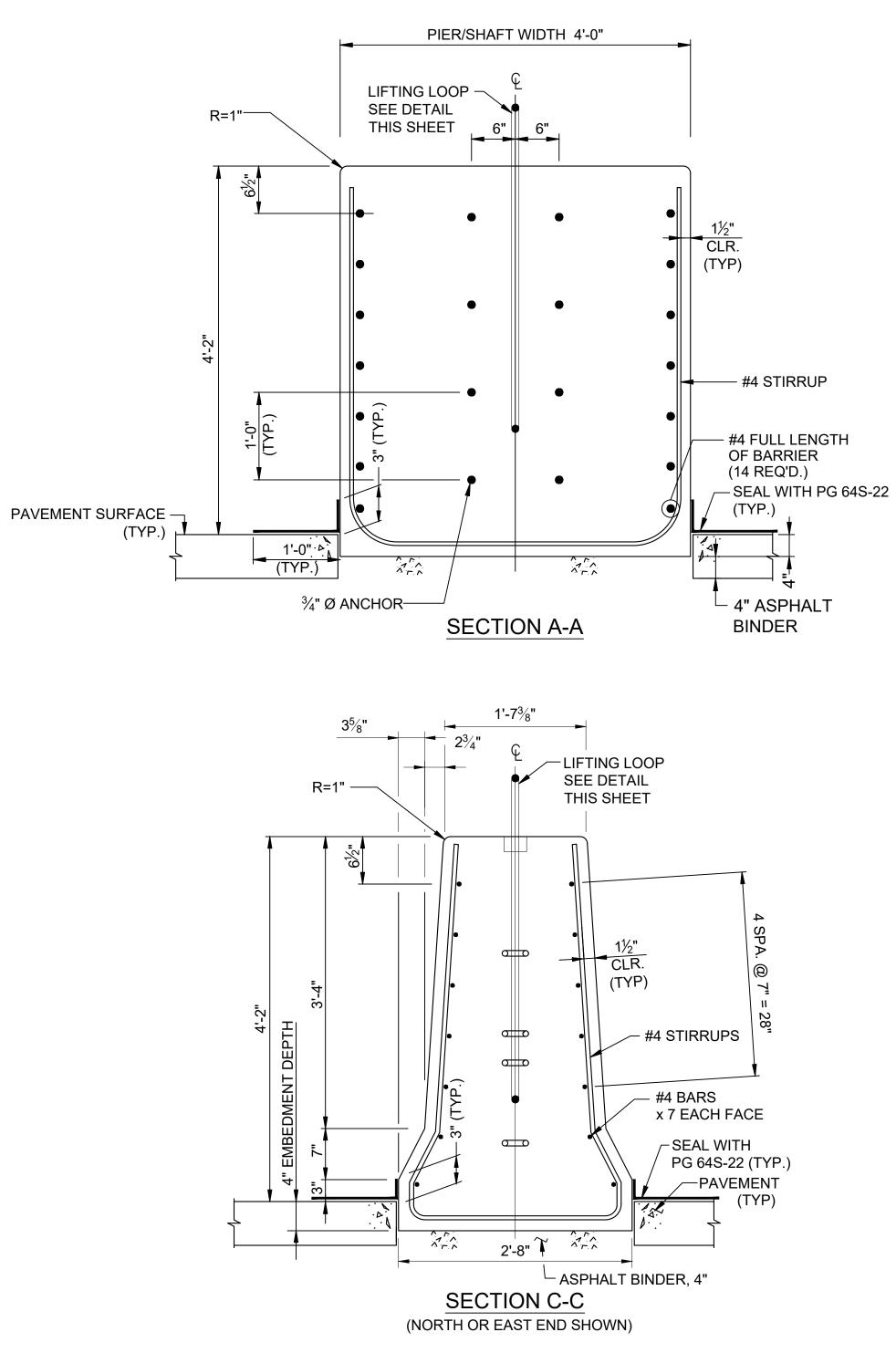


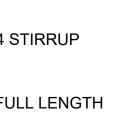


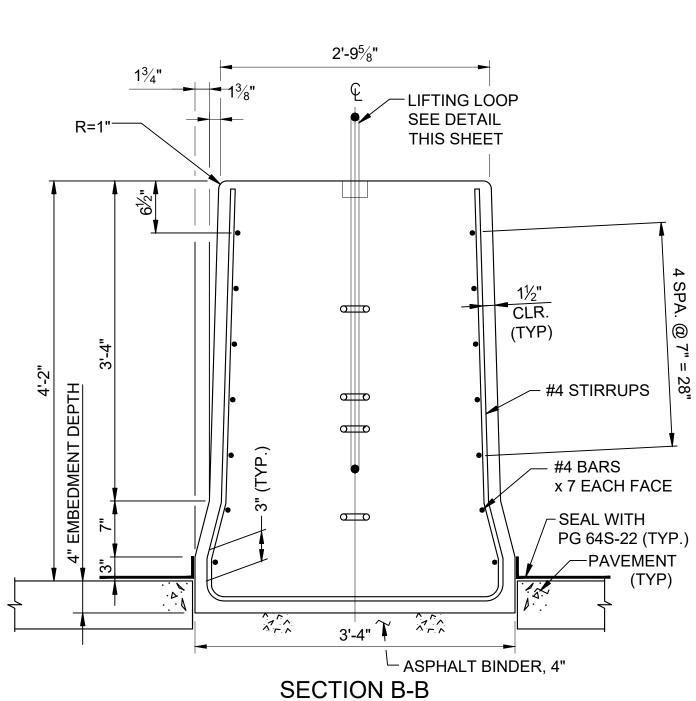




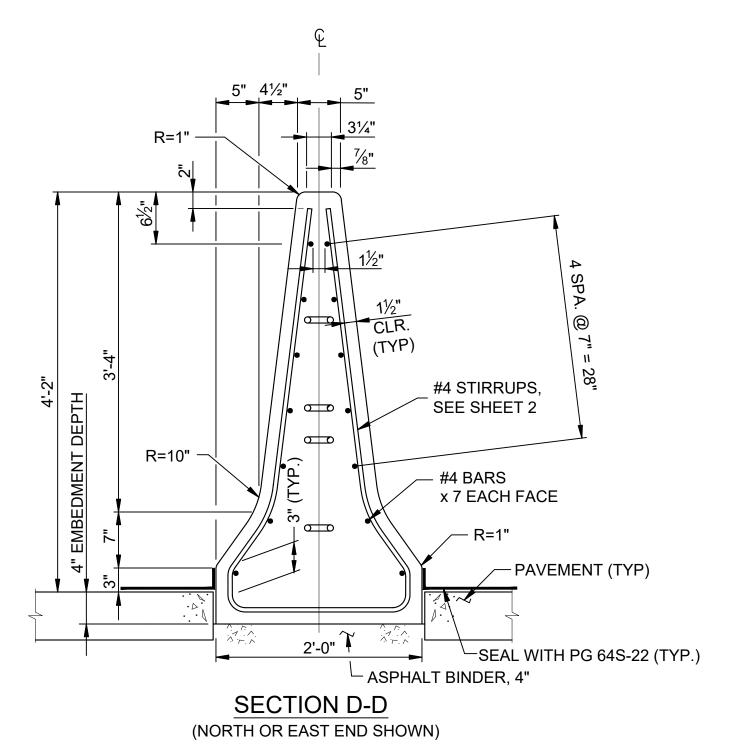


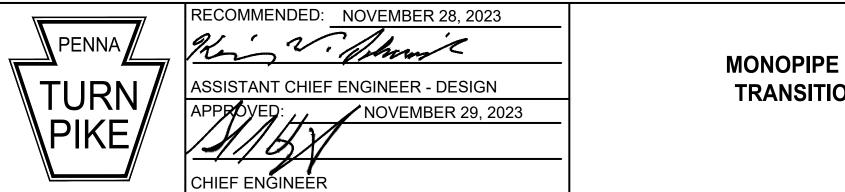




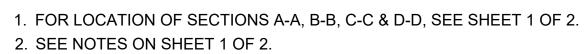


(NORTH OR EAST END SHOWN)

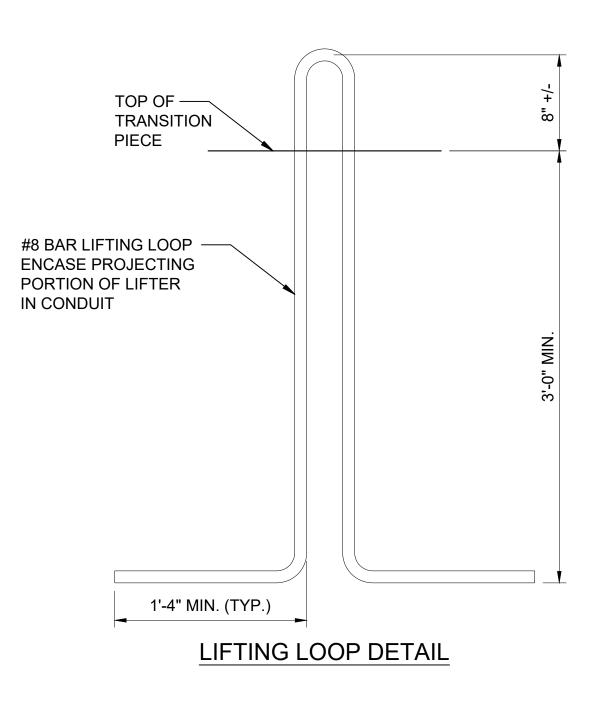


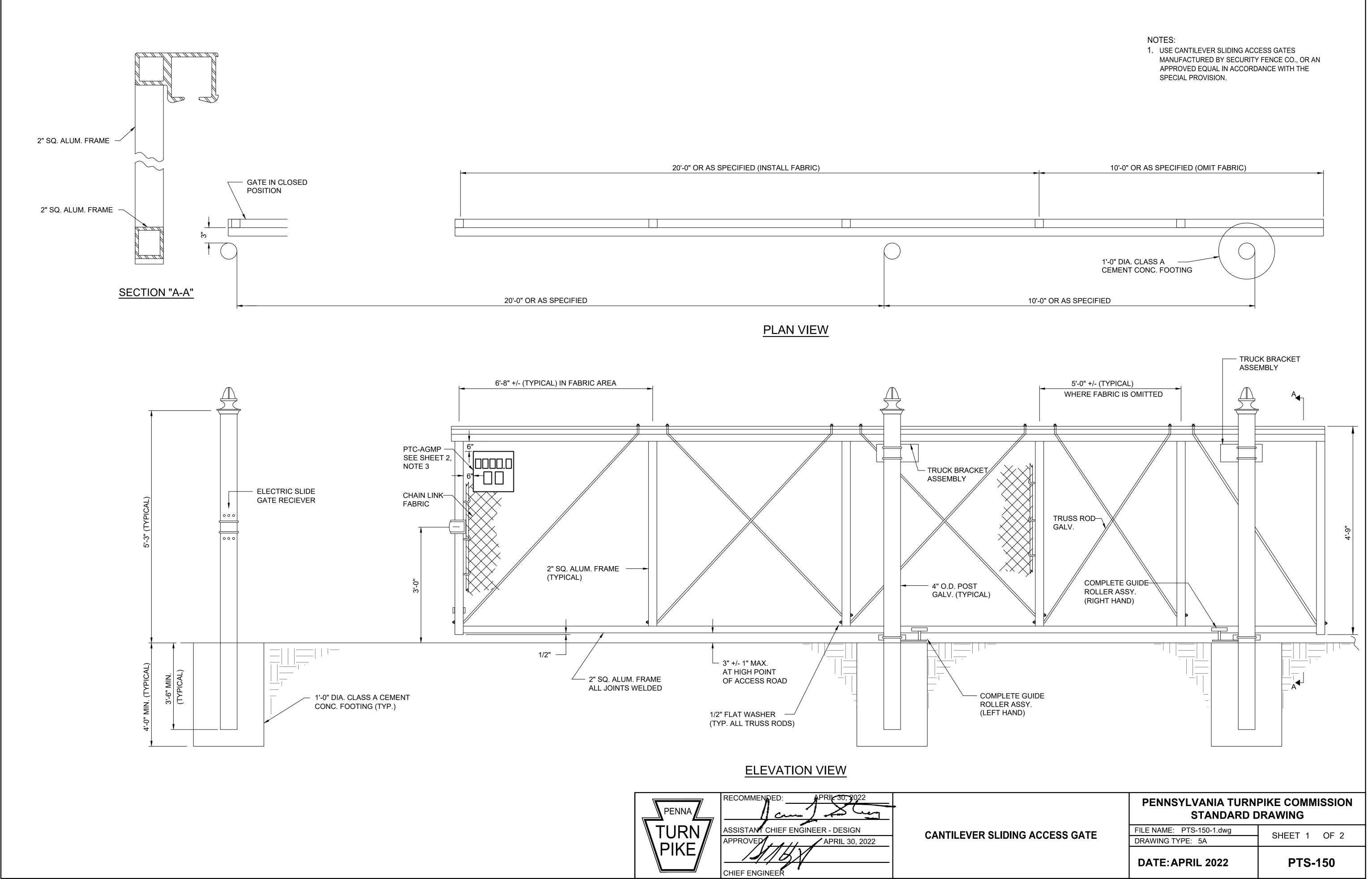


E CAISSON	PENNSYLVANIA TURNPIKE COMMISSION STANDARD DRAWING		
ON PIECE	FILE NAME: PTS-148-2.dwg	SHEET 2 OF 2	
	DRAWING TYPE: 5A	SHEET Z OF Z	
	DATE:NOVEMBER 2023	PTS-148	

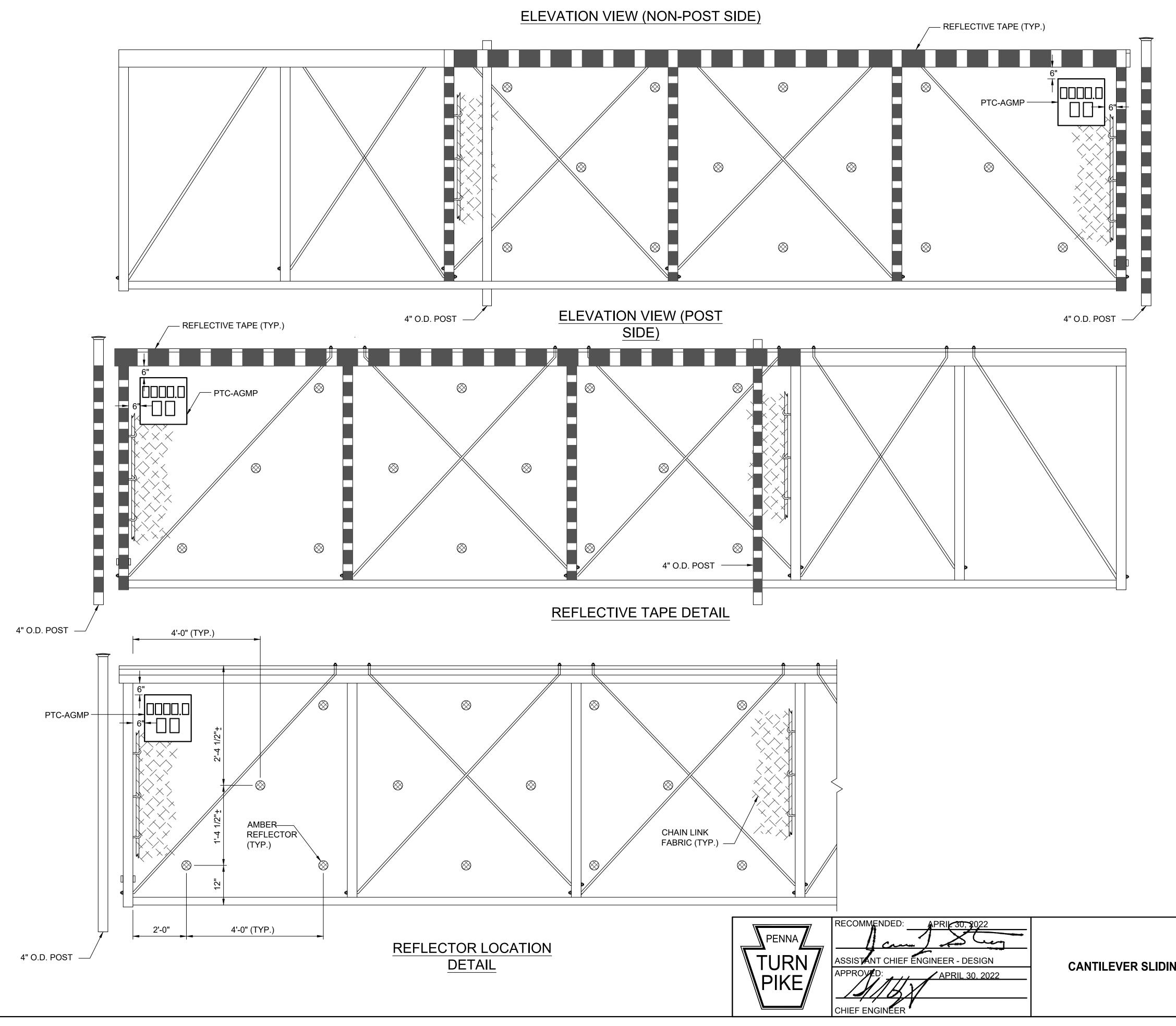






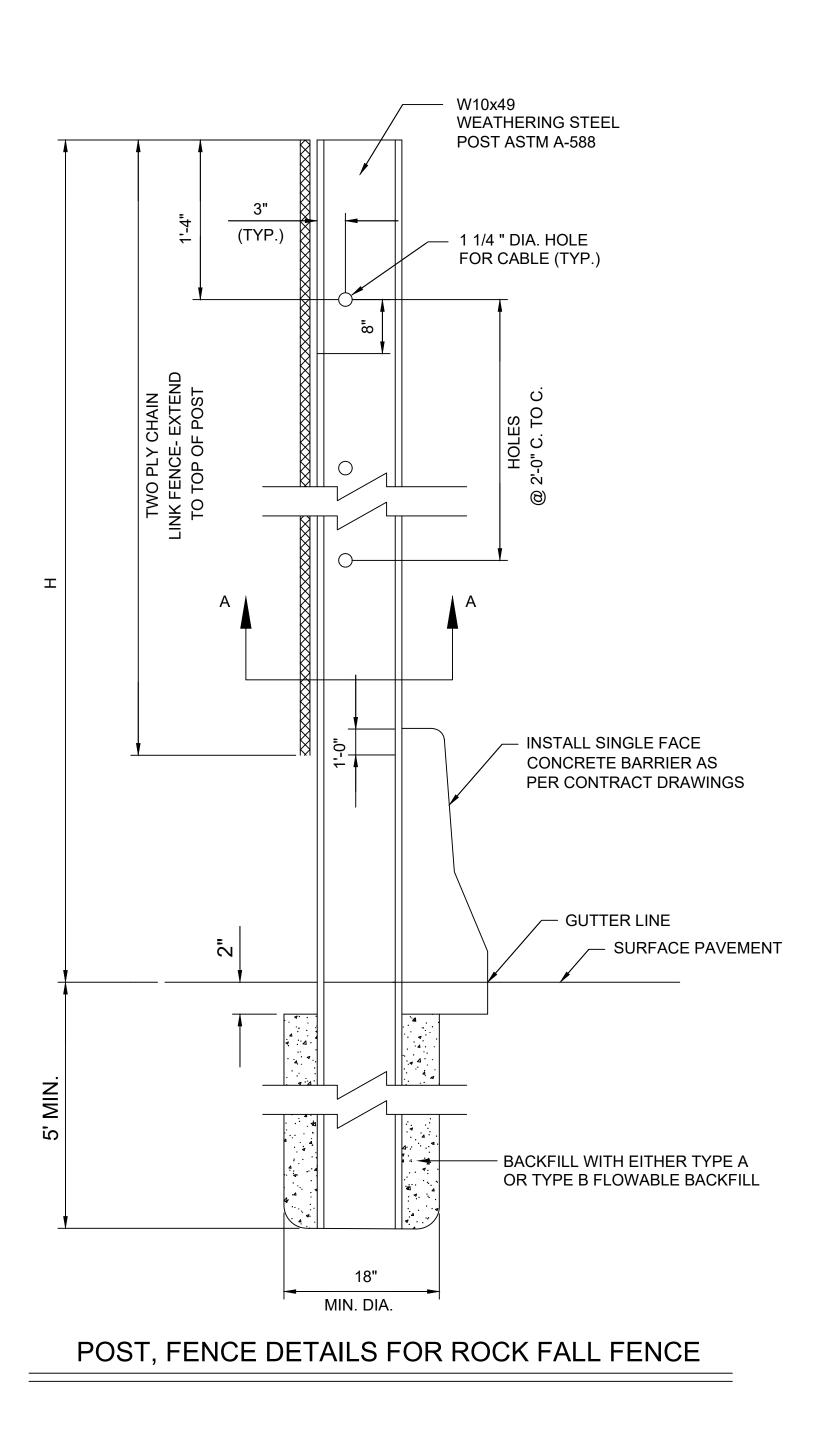


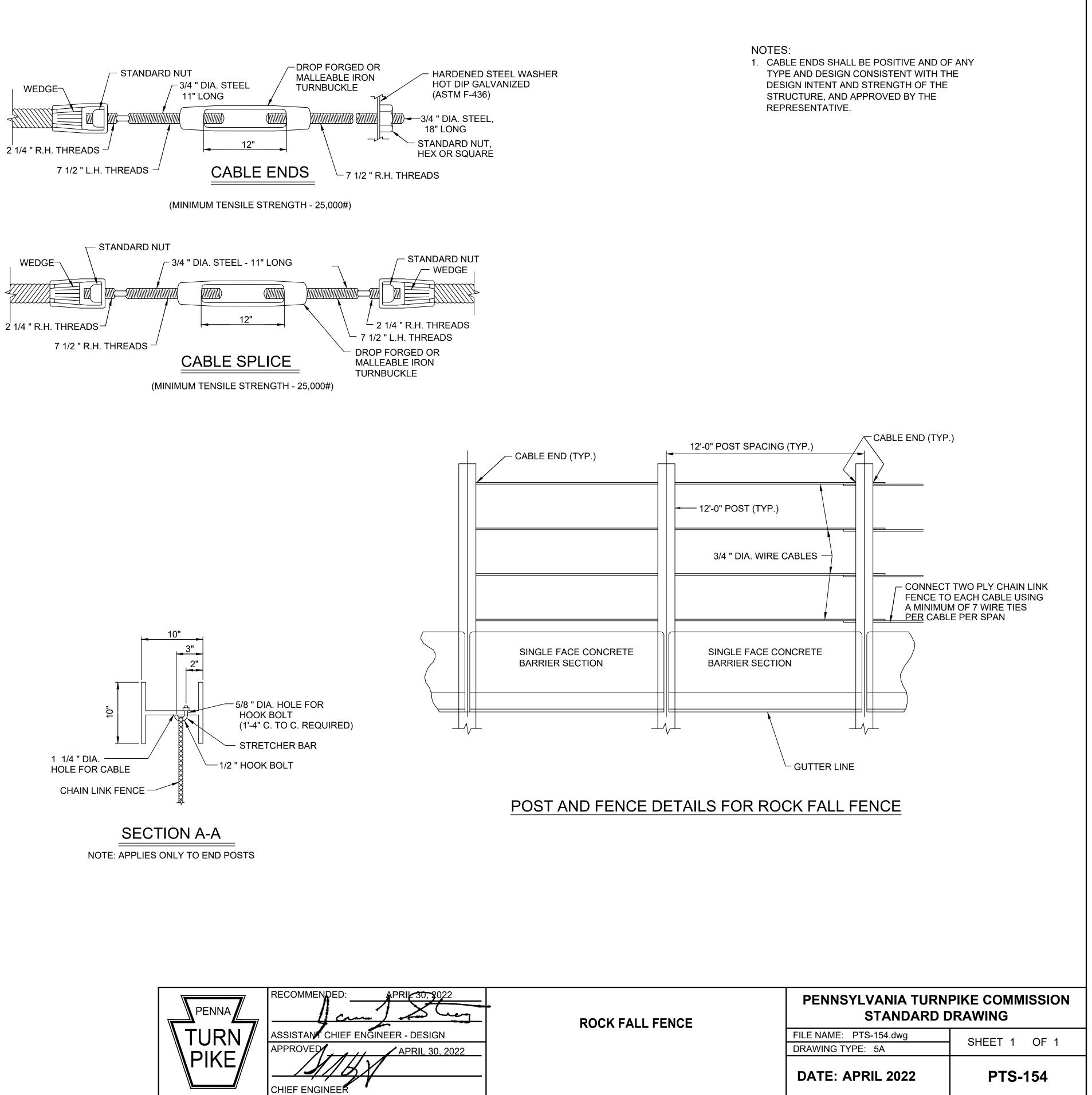


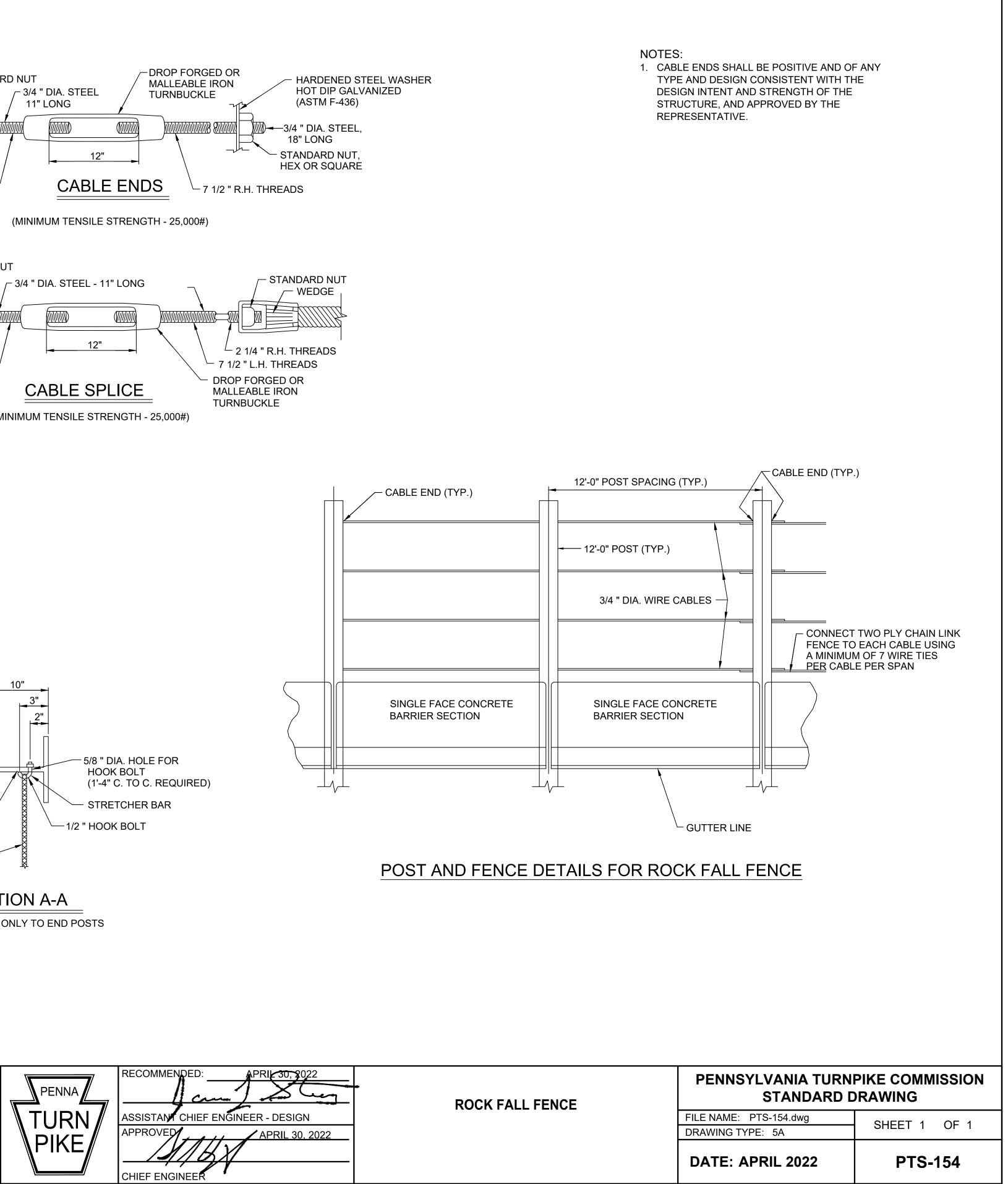


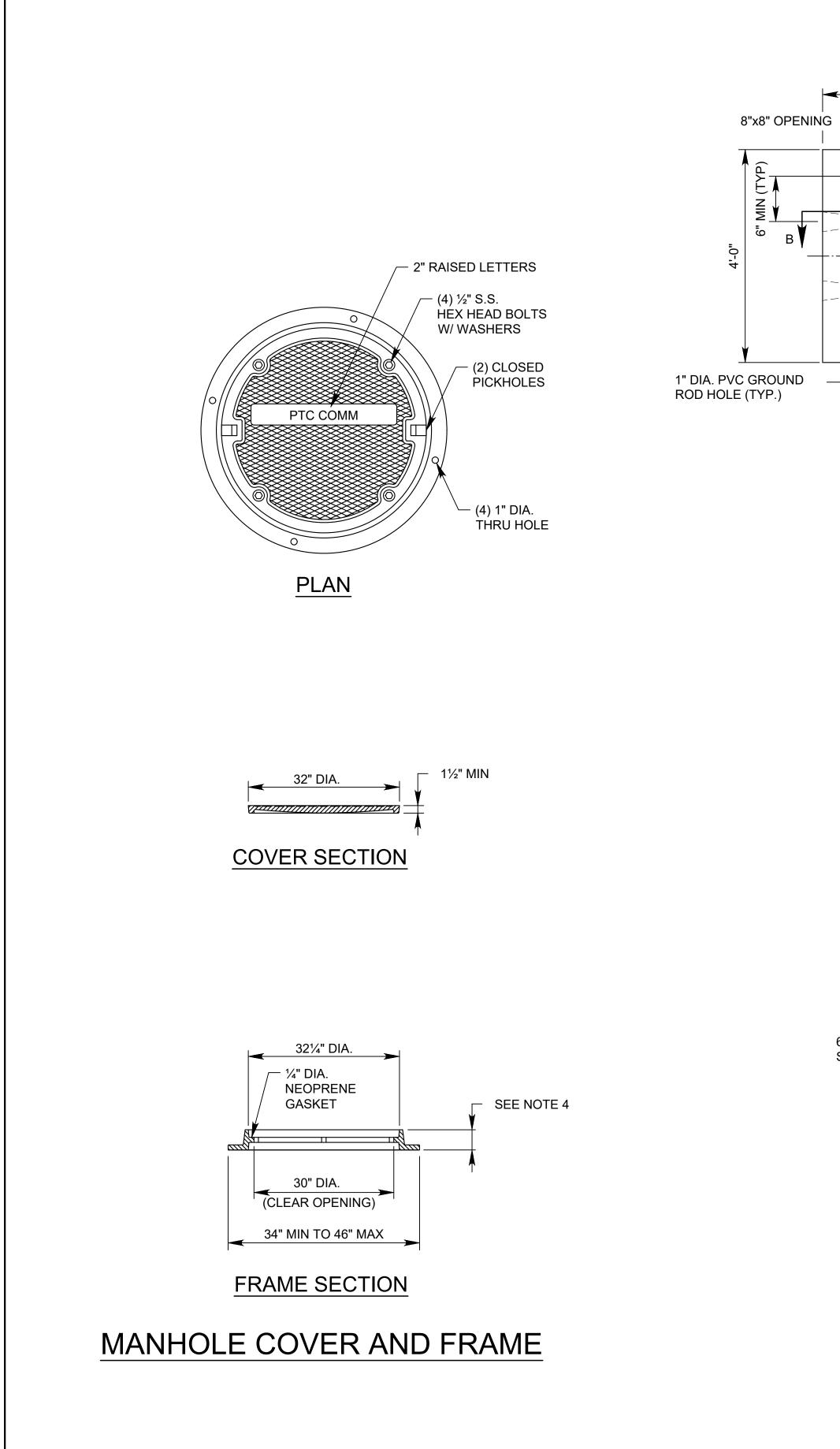
- 1. ATTACH AMBER REFLECTORS TO THE GATE, BACK TO BACK THROUGH THE CHAIN LINK FABRIC, AT THE LOCATIONS SHOWN BY USE OF AN ANTI-THEFT BOLT AND NUT.
- REFLECTIVE TAPE SHALL BE 3M DIAMOND GRADE CONSPICUITY MARKING ROLL, NUMBER 983-326, COLOR RED/WHITE, WIDTH 50 mm (2 INCHES) OR APPROVED EQUAL.
- 3. INSTALL PTC-AGMP SIGN TO THE GATE, BACK TO BACK THROUGH THE CHAIN LINK FABRIC, AT THE LOCATION SHOWN BY USE OF TWO (2) STAINLESS STEEL ANTI-THEFT BOLTS WITH NYLON OR STAINLESS STEEL WASHERS AND NUTS.

	PENNSYLVANIA TURN STANDARD D	
IG ACCESS GATE	FILE NAME: PTS-150-2.dwg	SHEET 2 OF 2
IG ACCESS GATE	DRAWING TYPE: 5A	
	DATE: APRIL 2022	PTS-150



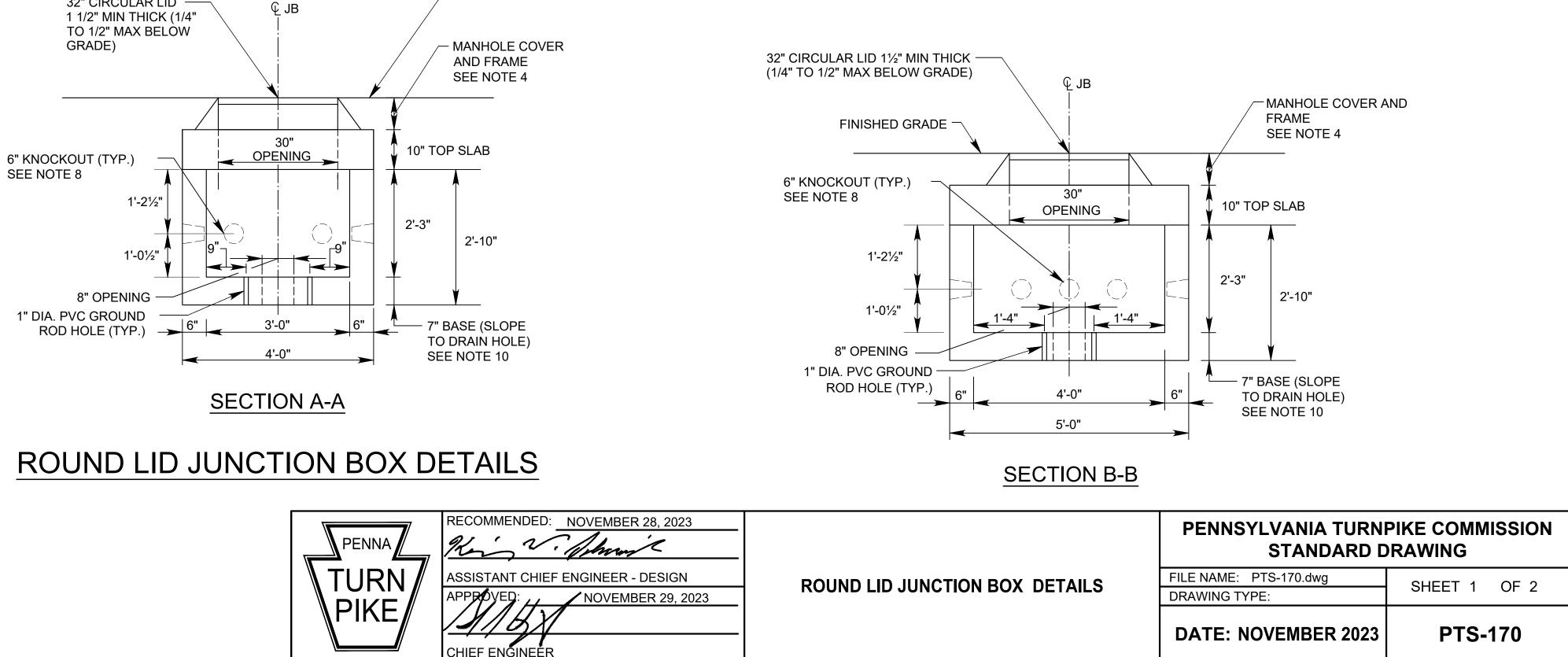






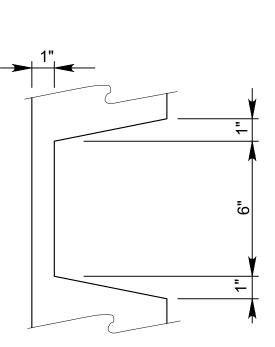


32" CIRCULAR LID —

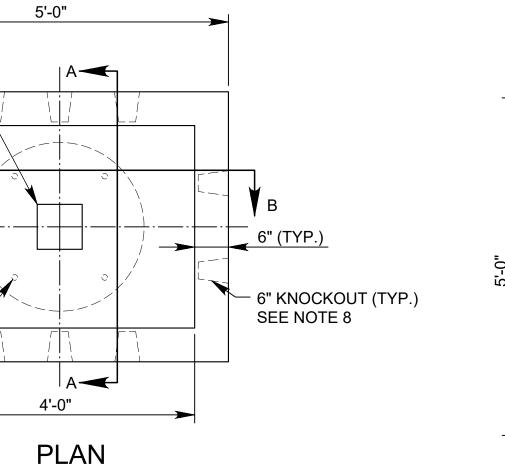


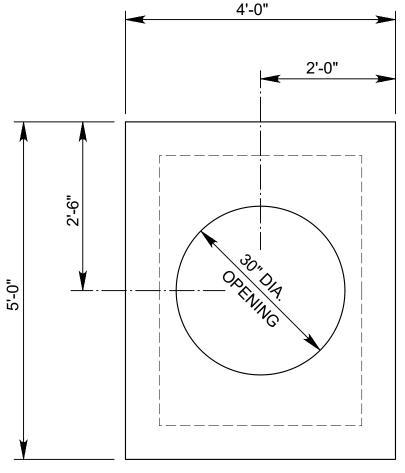
KNOCKOUT DETAIL

- FINISHED GRADE

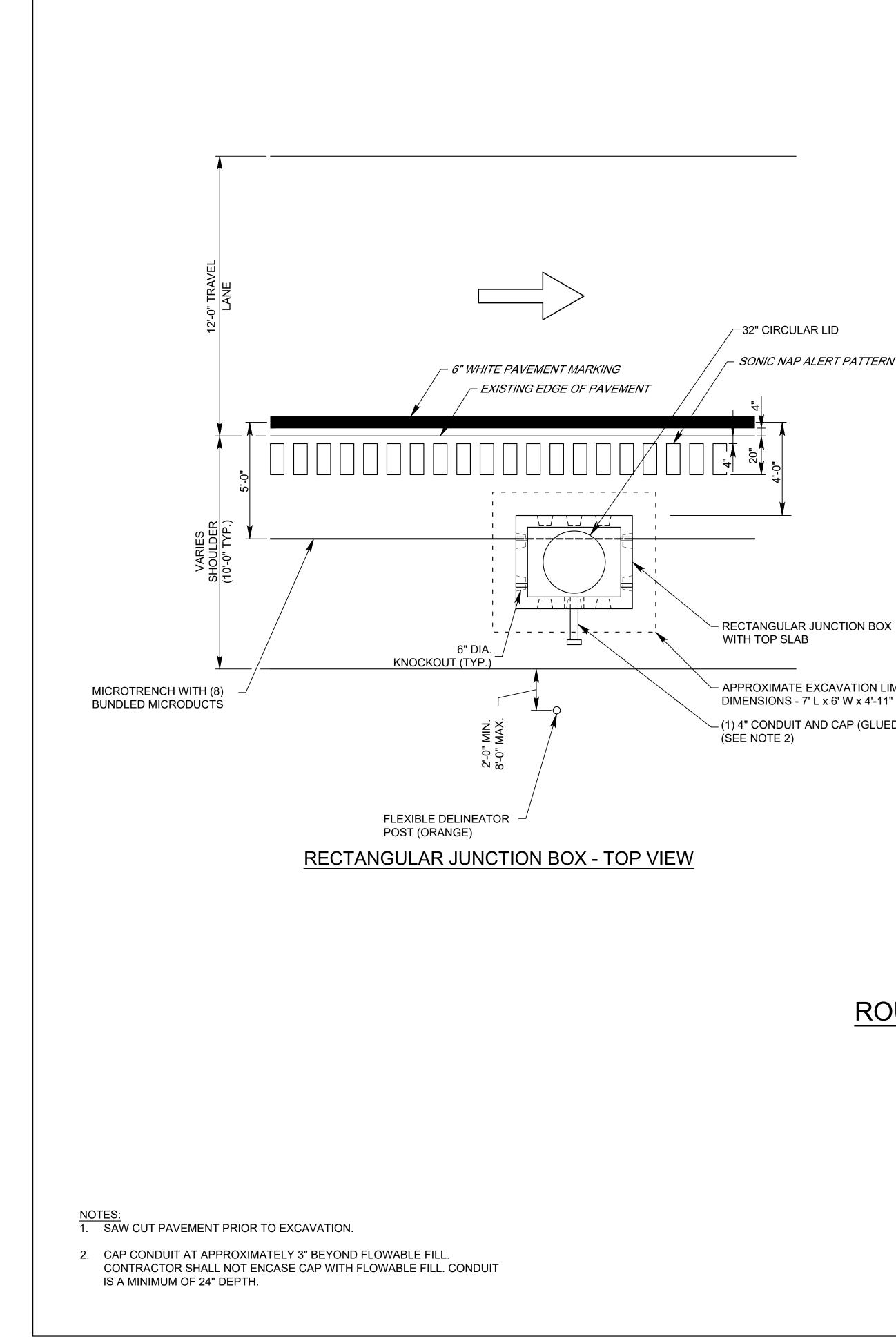


TOP SLAB



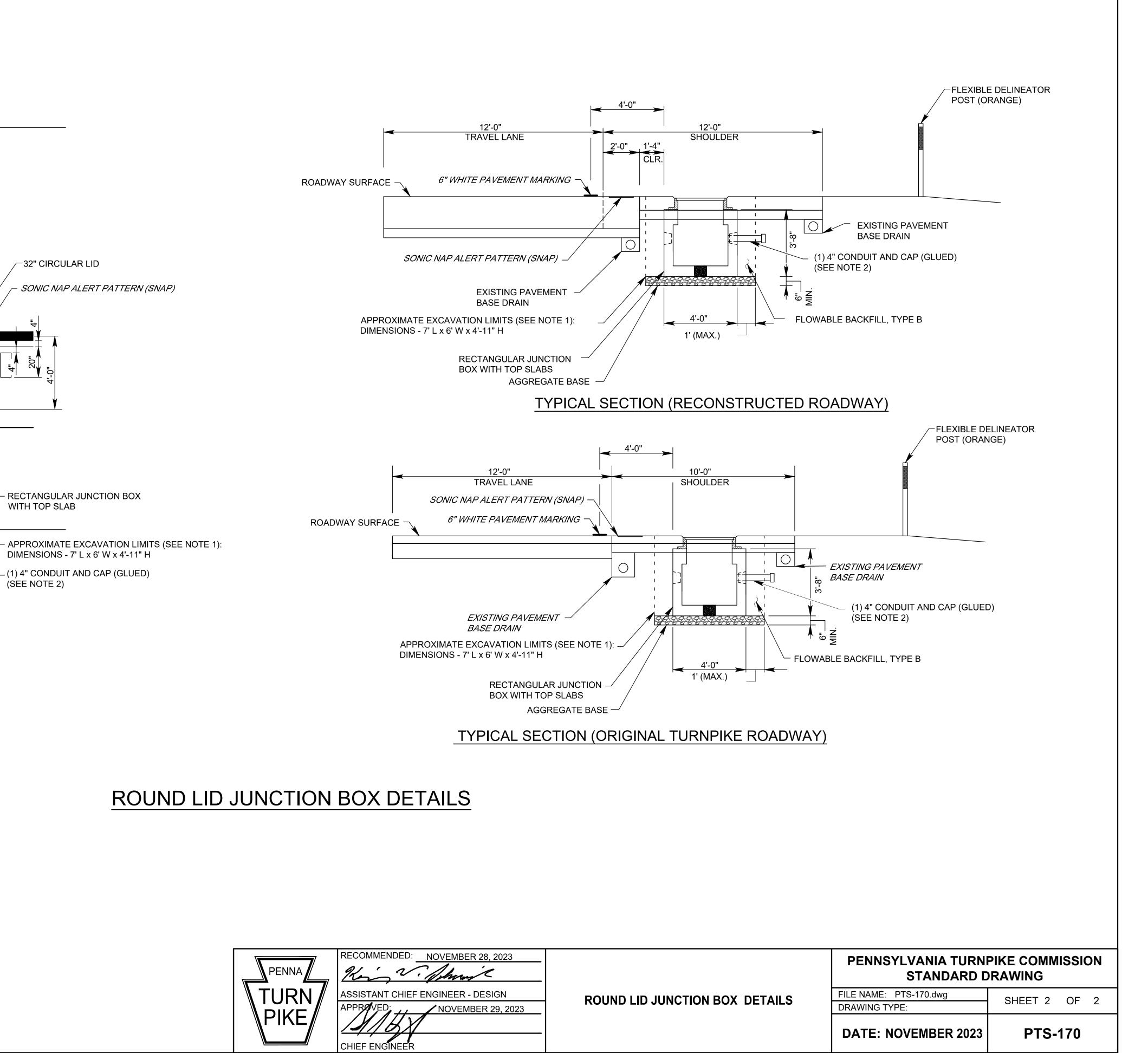


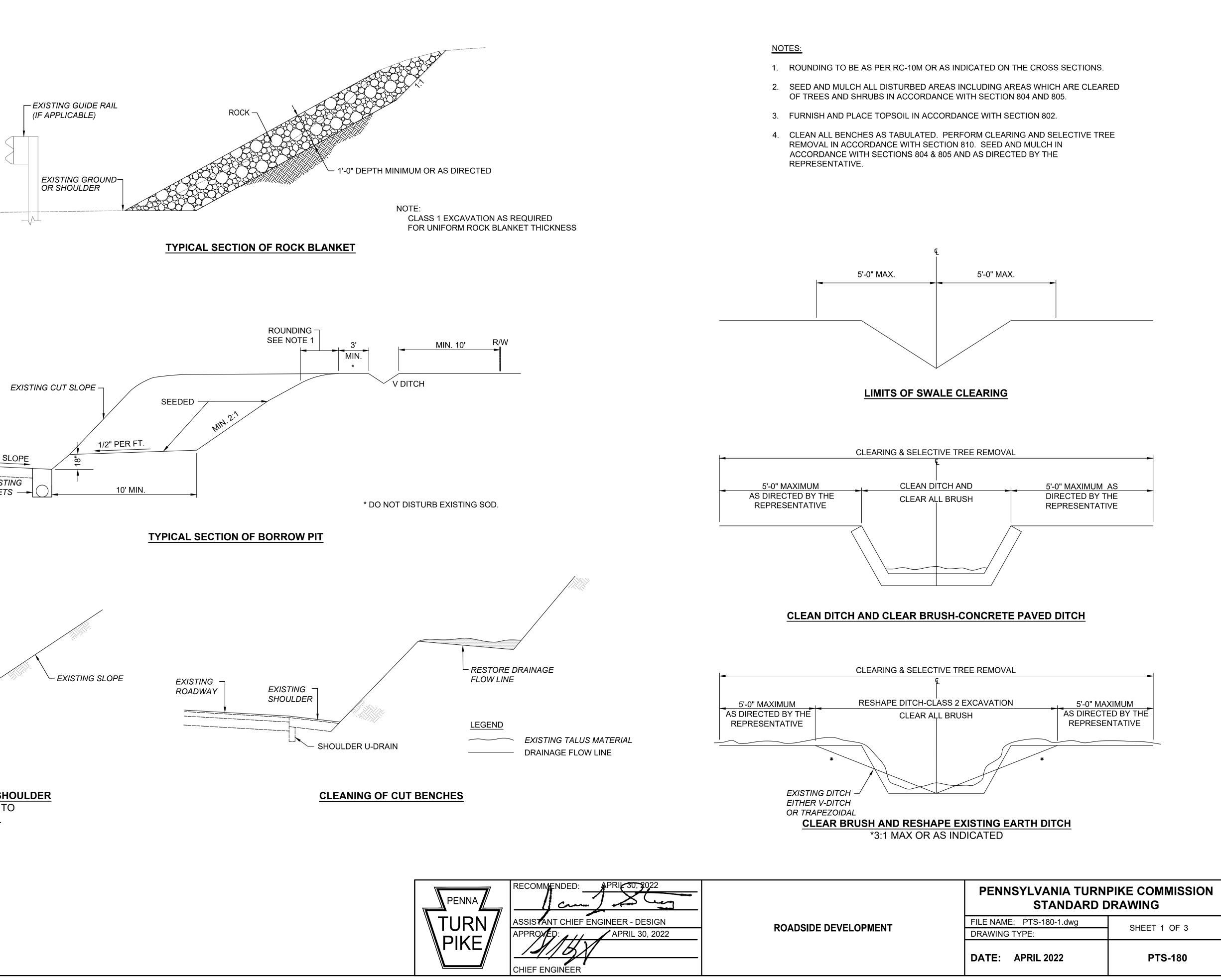
- 1. REINFORCEMENT AND DETAILS FOR THE PRECAST CONCRETE JUNCTION BOX AND TOP SLAP TO CONFORM TO RC-46M.
- 2. REINFORCEMENT AND THICKNESS FOR THE PRECAST CONCRETE JUNCTION BOX TO CONFORM TO A TYPE 4 INLET BOX - BASE SECTION.
- 3. REINFORCEMENT AND THICKNESS FOR THE PRECAST CONCRETE TOP SLAB TO CONFORM TO A TOP SLAB FOR A TYPE 4 INLET BOX.
- 4. MANHOLE COVER AND FRAME TO BE IN ACCORDANCE WITH THE REQUIREMENTS OF RC-39M AND VERTICAL DEPTH IN ACCORDANCE WITH THE CONTRACT DOCUMENTS
- 5. ATTACH THE MANHOLE COVER TO THE FRAME USING COUNTERSUNK STAINLESS STEEL HEX BOLTS.
- 6. PROVIDE PRECAST CONCRETE ADJUSTMENT RING OR STRUCTURAL STEEL GRADE ADJUSTMENT RISERS PER RC-39M IF REQUIRED.
- 7. MANHOLE STEPS ARE NOT REQUIRED.
- 8. SLEEVES FOR 4" DIAMETER CONDUIT CAN BE SUBSTITUTED FOR 6" KNOCKOUTS.
- 9. INSIDE CORE MAY BE TAPERED TO ALLOW FORM STRIPPING.
- 10. PROVIDE SLOPED BOTTOM TO DRAIN JUNCTION BOX TO 8" X 8" DRAIN HOLE. SLOPE BOTTOM SHOULD BE ADEQUATE TO DRAIN THE JUNCTION BOX IF PLACED IN A FULLY SUPERELEVATED SHOULDER (8%).
- 11. REFER TO CONTRACT DOCUMENTS FOR ADDITIONAL REQUIREMENTS.



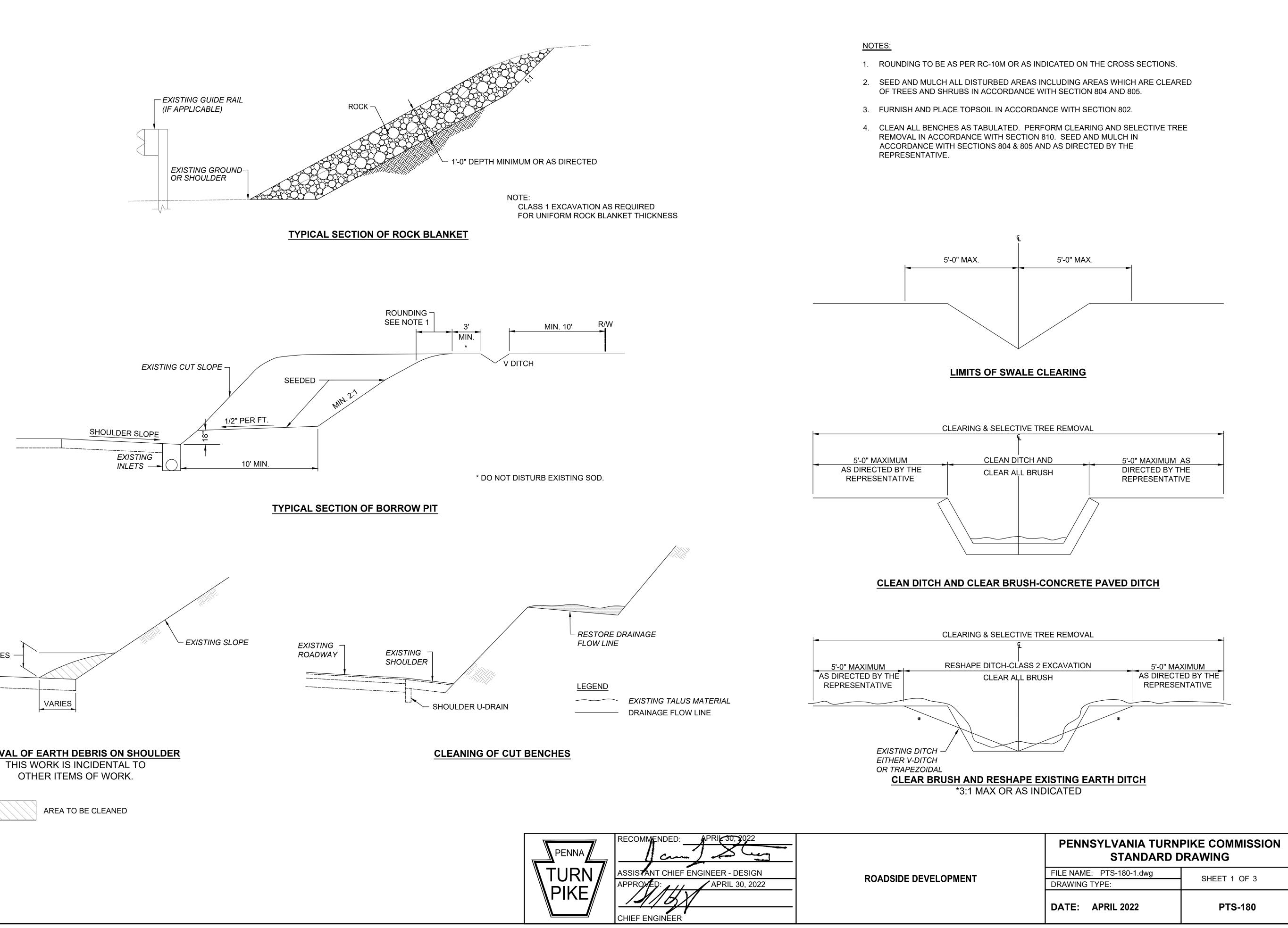
K	JUND	LID	JUNC	

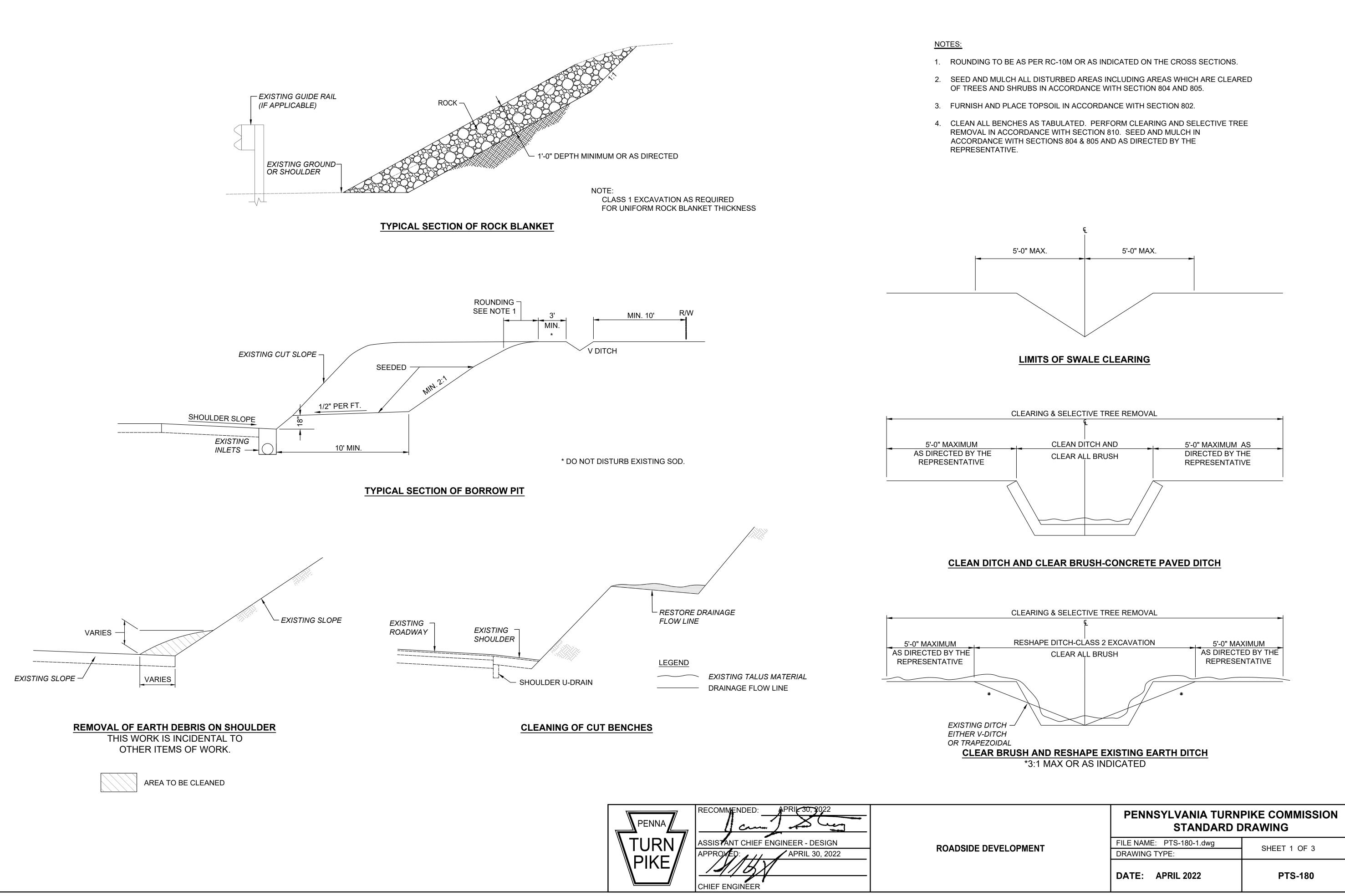


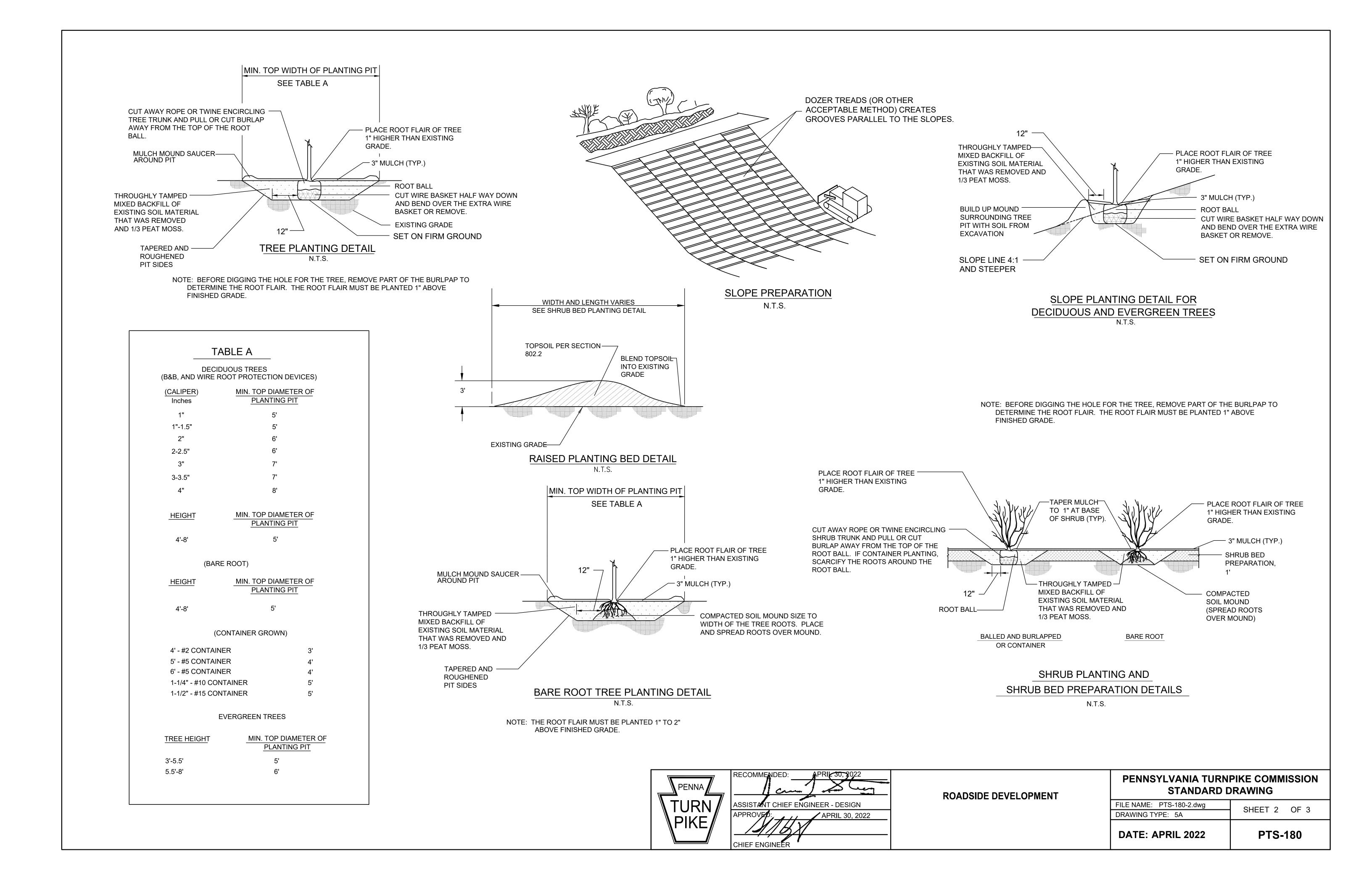


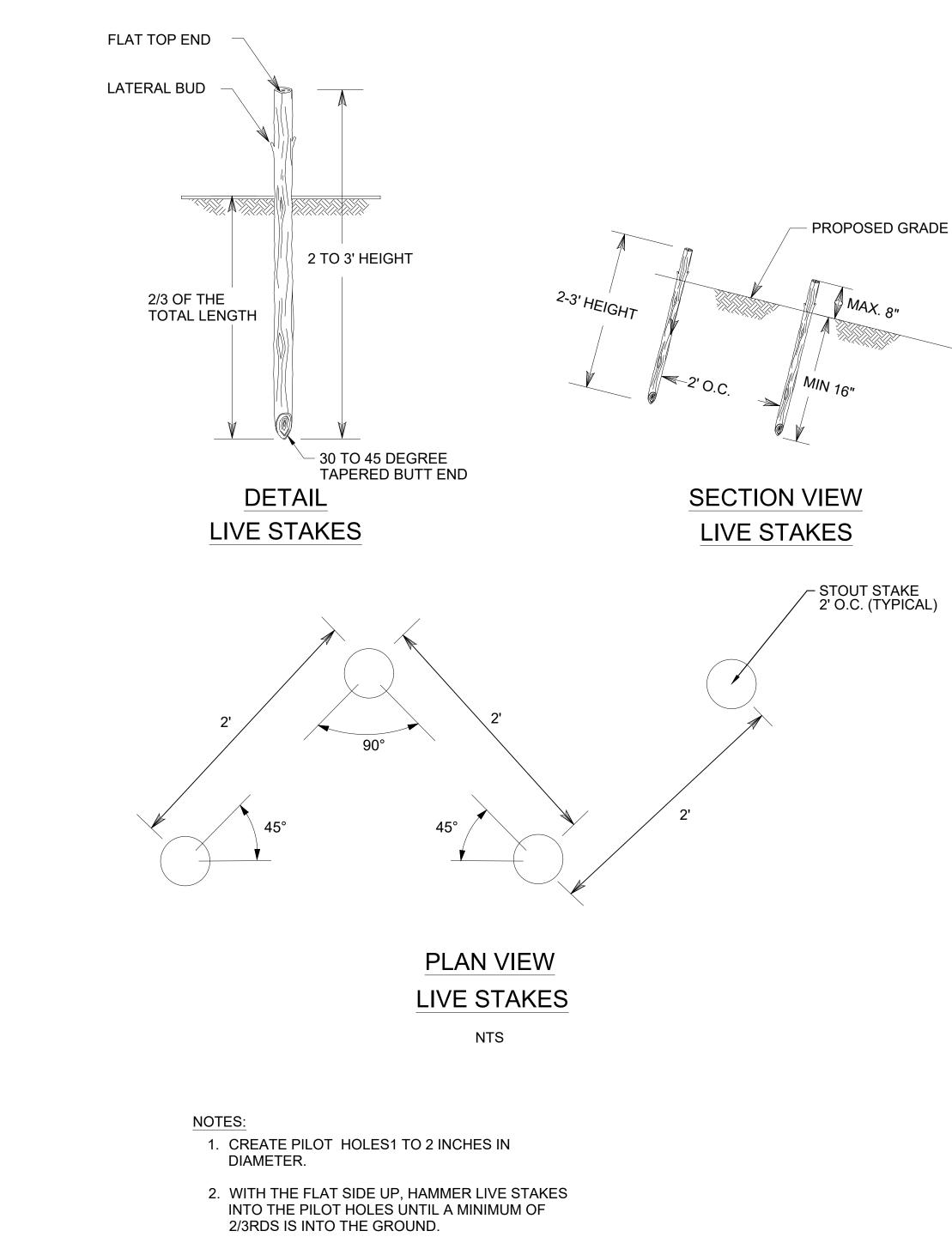






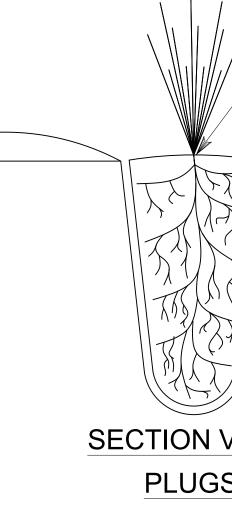


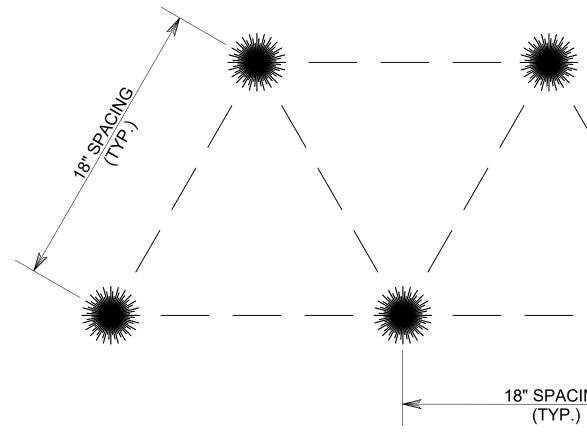




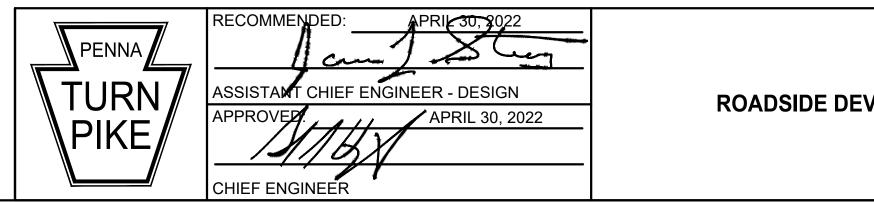
- 3. LIVE STAKES SHALL HAVE A DIAMETER OF 3/4 TO 1 1/2 INCHES.
- 4. FIRMLY PACK SOIL AROUND THE LIVE STAKE REMOVING ALL GAPS AND AIR POCKETS
- 5. SPACE LIVE STAKES 2 FEET APART.

- PROPOSED GRADE

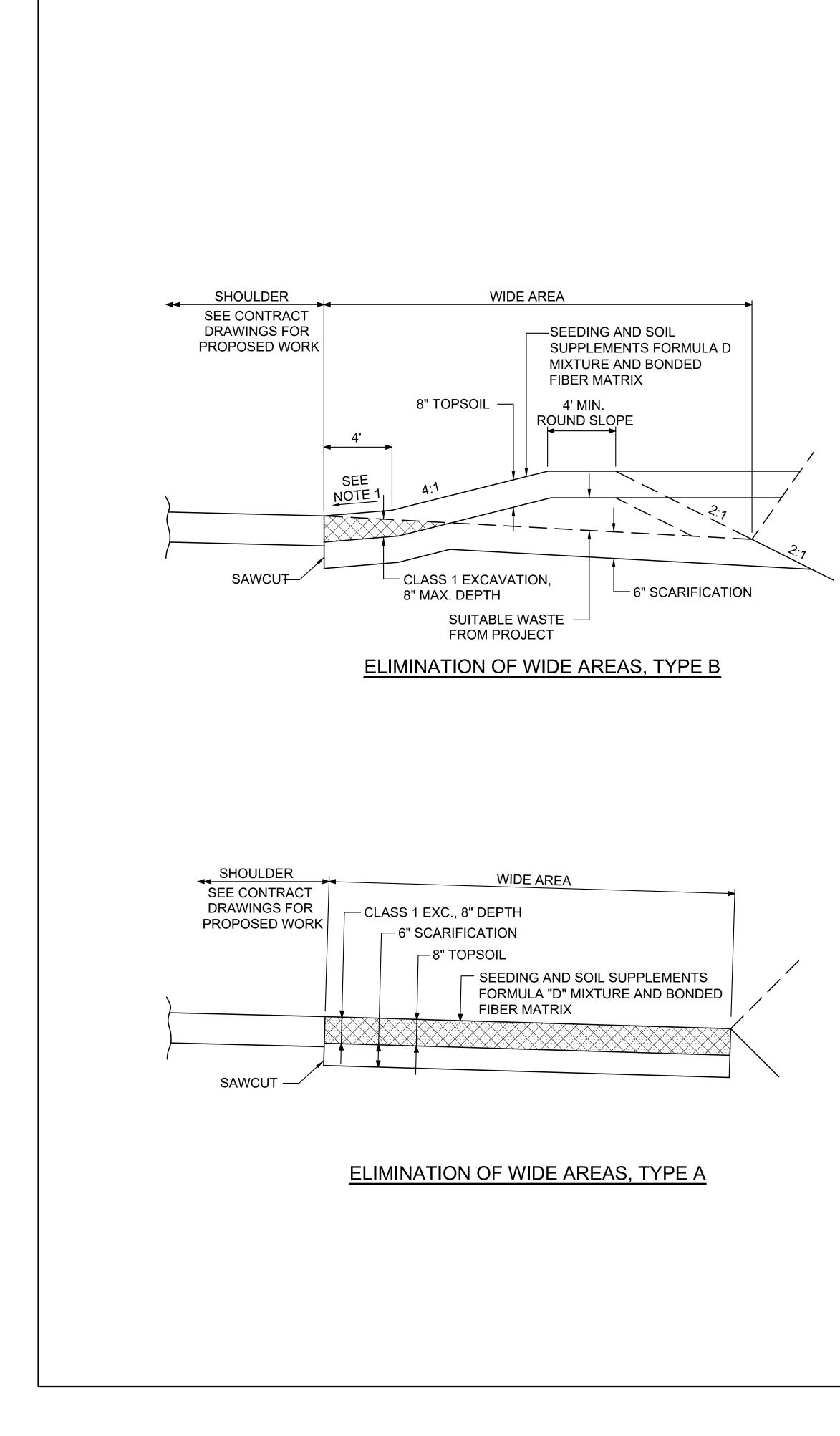


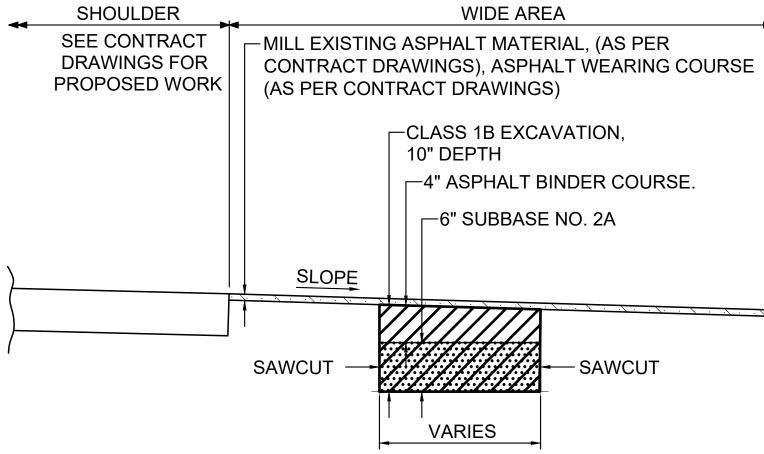


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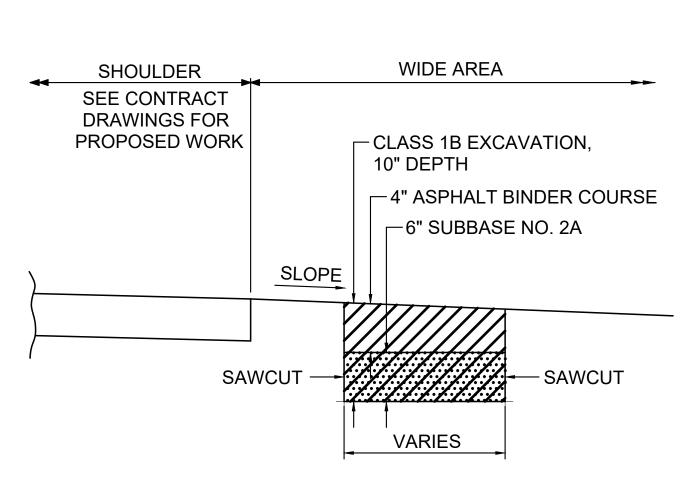


PROTECT SENSITIVE C	ROWN	
FILL POST-INSTAL AIR HOLES WITH	LY 2-4" OF ORGANIC MULCH	
VIEW		
SS		
VIEW JGS		
	PENNSYLVANIA TURNI STANDARD D	
VELOPMENT	FILE NAME: PTS-180-1.dwg DRAWING TYPE: 5A	SHEET 3 OF 3
	DATE: APRIL 2022	PTS-180





TYPICAL WIDE AREA REPAIR & MILL & OVERLAY



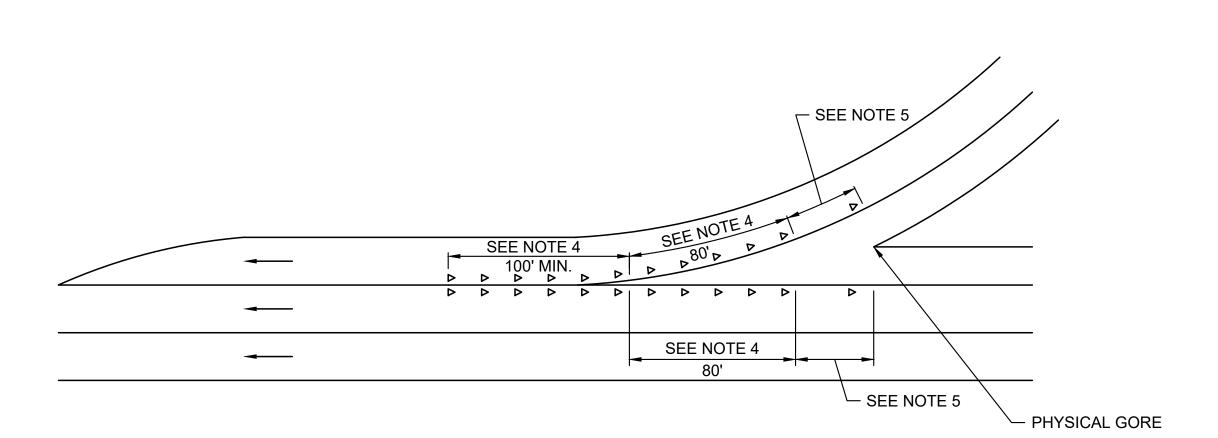
TYPICAL WIDE AREA REPAIR

PENNA	RECOMMENDED: APRIL 30, 2022	-	PENNSYLVANIA TURN STANDARD D	
	ASSISTANT CHIEF ENGINEER - DESIGN	WIDE AREAS	FILE NAME: PTS-181.dwg DRAWING TYPE: 5A	SHEET 1 OF 1
PIKE			DATE: APRIL 2022	PTS-181

- SLOPE FIRST 4-FEET OF MOUND TOWARDS EDGE OF SHOULDER AT 1"/FT IF INLETS EXIST IN THE SHOULDER. IF THERE ARE NO INLETS IN THE SHOULDER, SLOPE AWAY FROM SHOULDER AND GRADE TO DRAIN.
- 2. SAWCUT IS NOT REQUIRED IF A MILLING MACHINE IS USED TO PERFORM THE EXCAVATION.

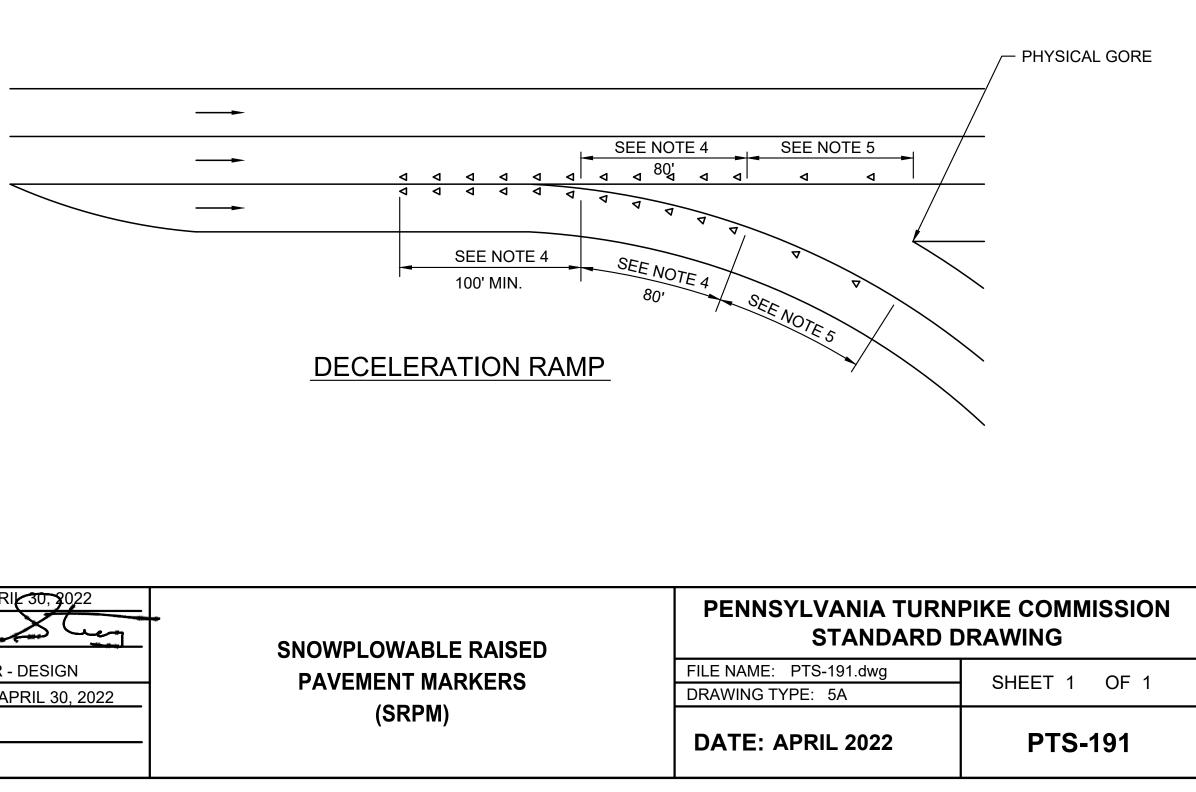
∕CUT ASPHALT ROLL-UP, SEE PTS-124 (CUT CONDITION ONLY) FILL

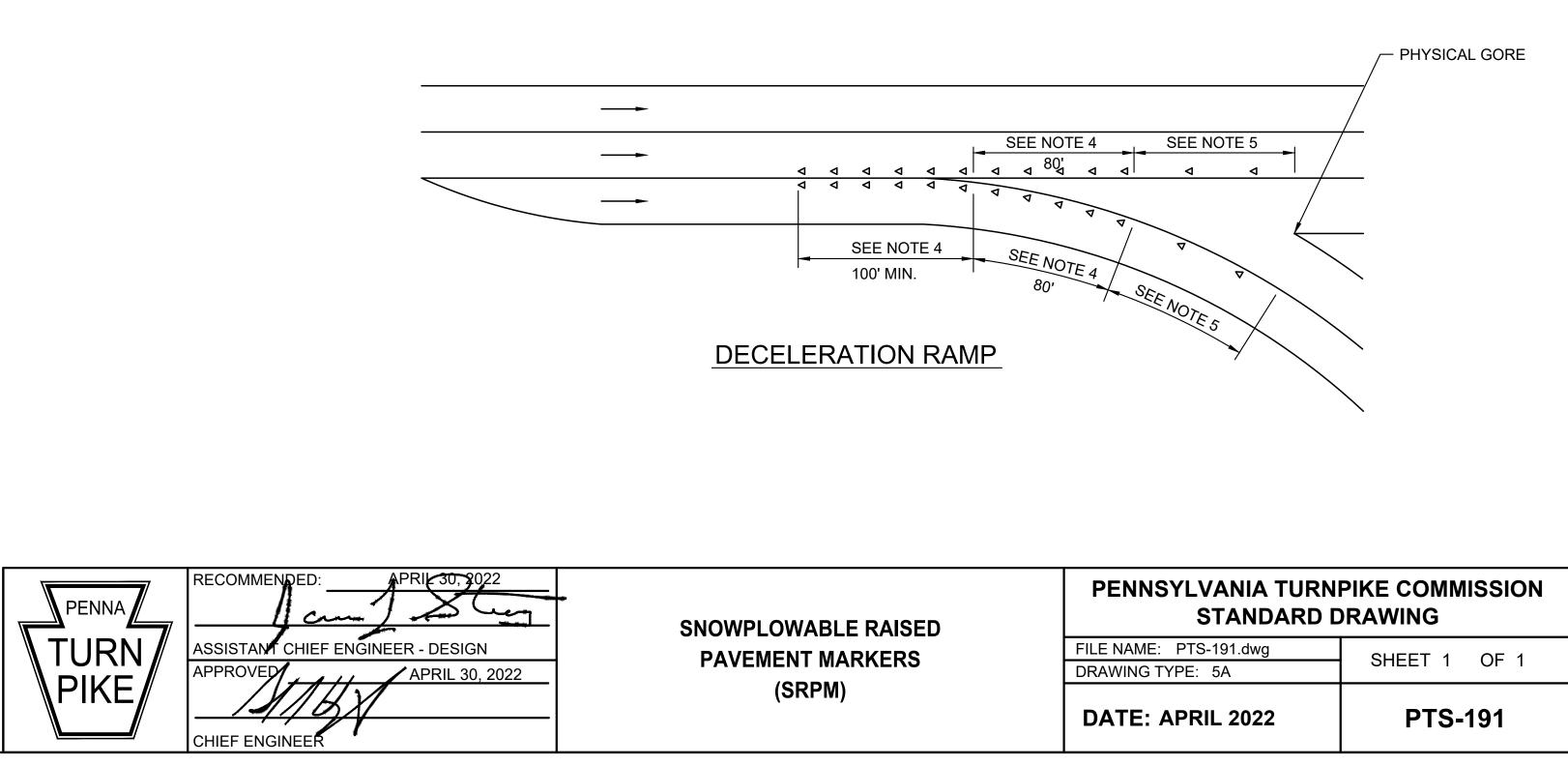
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(SRPM)

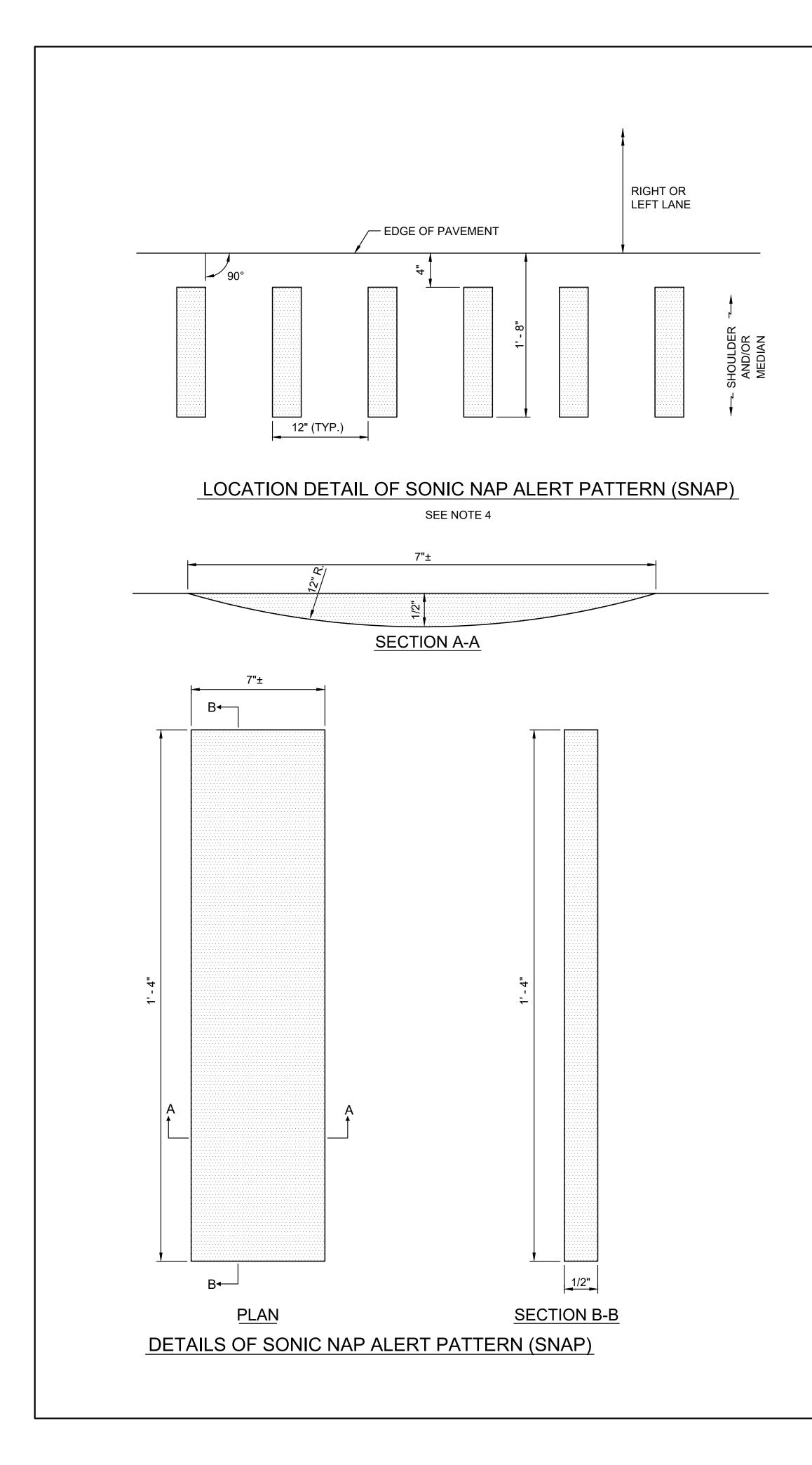




NOTES:

- 1. THE REPRESENTATIVE WILL APPROVE THE EXACT LOCATIONS OF THE SNOWPLOWABLE RAISED PAVEMENT MARKERS PRIOR TO INSTALLATION.
- 2. TYPICAL SPACING IS 80' C. TO C. EXCEPT ON CURVES GREATER THAN 1° WHERE THE SPACING IS 40' C. TO C. OR AS DIRECTED BY THE REPRESENTATIVE.
- 3. LOCATE SNOWPLOWABLE RAISED PAVEMENT MARKERS TWO (2) INCHES FROM THE EDGE OF THE PAINTED GORE LINES AND AS DIRECTED BY THE REPRESENTATIVE.
- 4. SPACE SNOWPLOWABLE RAISED PAVEMENT MARKERS AT 20' C. TO C. FOR A DISTANCE OF 100' MIN. BEFORE AND 80' BEYOND THE PAINTED GORE ON THE ACCELERATION AND DECELERATION RAMPS.
- 5. CONTINUE SNOWPLOWABLE RAISED PAVEMENT MARKERS TO THE PHYSICAL GORE AT 40' C. TO C. SPACING.
- 6. INSTALL SNOWPLOWABLE RAISED PAVEMENT MARKERS AFTER FINAL PAVEMENT MARKING.
- 7. SEE PTS-980 FOR PLACEMENT OF TRAFFIC LINE MARKINGS. 8. SEE PTS-192 FOR PLACEMENT OF SONIC NAP ALERT PATTERN (SNAP).
- 9. SEE PTS-112 FOR PLACEMENT OF JOINT SEALING AND SNAP.

ACCELERATION RAMP

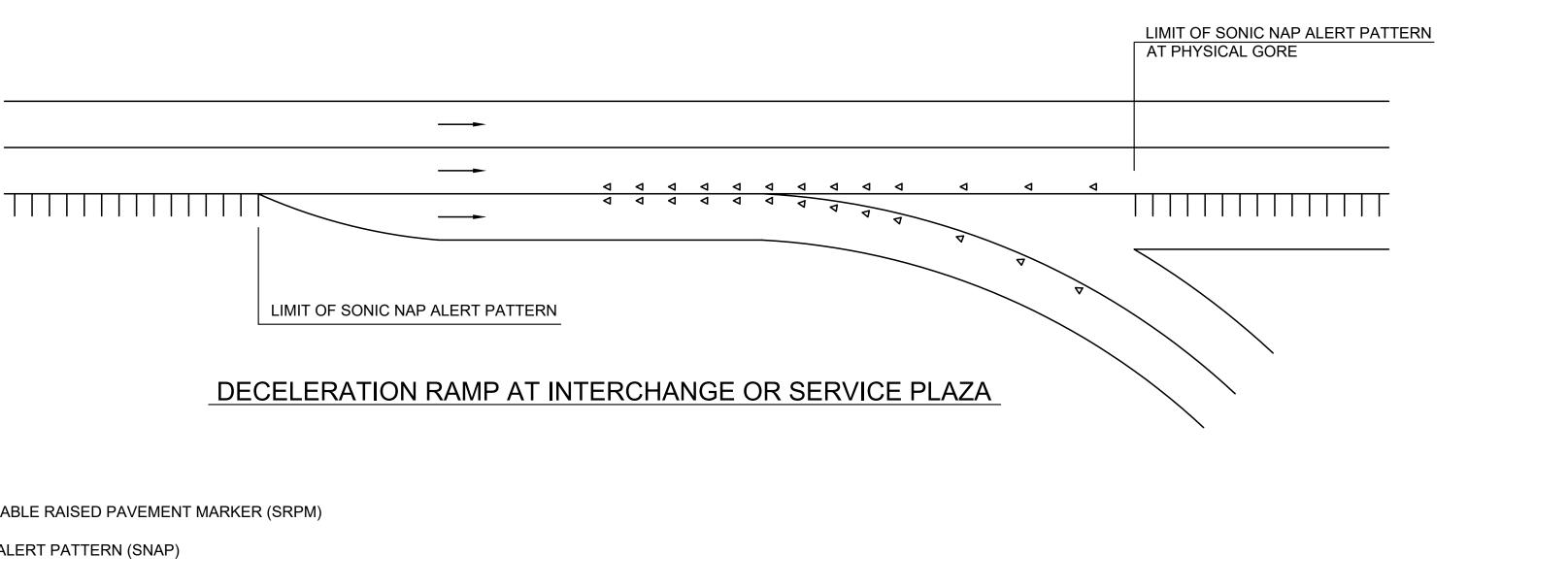


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TURN	ASSISTANT CHIEF ENGINEER - DESIGN	
PIKE	APPROVER: APRIL 30, 2022	
	CHIEF ENGINEER	

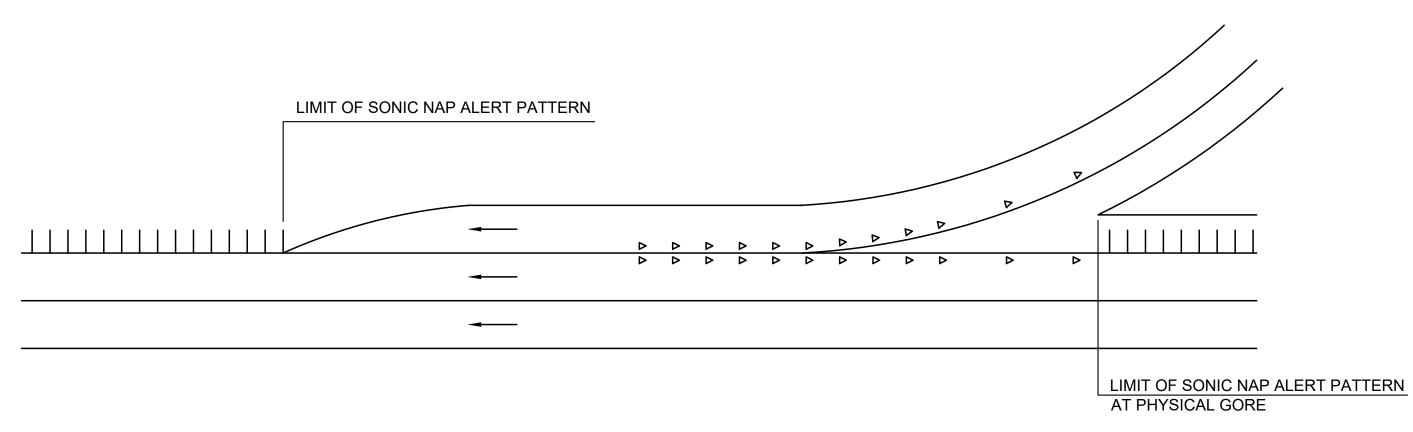
SONIC NAP ALEF (SNAF

- SONIC NAP ALERT PATTERN (SNAP)
- SNOWPLOWABLE RAISED PAVEMENT MARKER (SRPM) **d d**

LEGEND:

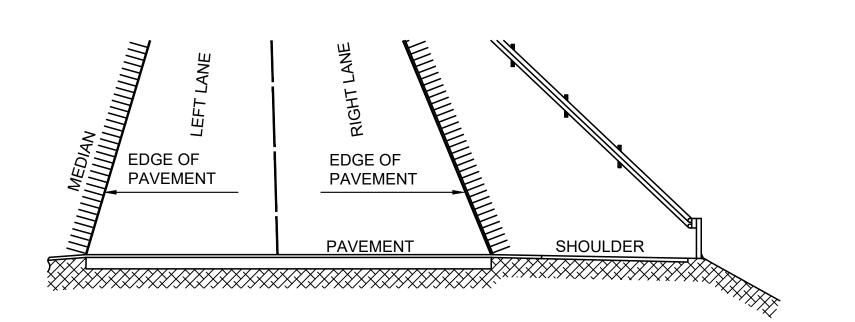


ACCELERATION RAMP AT INTERCHANGE OR SERVICE PLAZA



SONIC NAP ALERT PATTERN (SNAP) SEE NOTE 4

GENERAL VIEW



- 1. LIMIT OF SONIC NAP ALERT PATTERN ON ACCELERATION RAMP TO BEGIN AT PHYSICAL GORE.
- 2. LIMIT OF SONIC NAP ALERT PATTERN ON DECELERATION RAMP TO BEGIN AT PHYSICAL GORE.
- 3. INSTALL SONIC NAP ALERT PATTERN THROUGHOUT PROJECT LIMITS UNLESS OTHERWISE NOTED ON THE CONSTRUCTION PLANS.
- 4. INSTALL SONIC NAP ALERT PATTERN IN MEDIAN AREA WHEN OVERALL WIDTH OF MEDIAN IS GREATER THAN OR EQUAL TO 18 FEET.
- 5. INSTALL SONIC NAP ALERT PATTERN AFTER FINAL PAVEMENT MARKINGS.
- 6. SEE PTS-980 FOR PLACEMENT OF TRAFFIC LINE MARKINGS.
- 7. SEE PTS-191 FOR PLACEMENT OF SNOWPLOWABLE RAISED PAVEMENT MARKERS (SRPM).
- 8. SEE PTS-112 FOR PLACEMENT OF JOINT SEALING AND SONIC NAP ALERT PATTERN.

RT PATTERN		PENNSYLVANIA TURNPIKE COMMISSION STANDARD DRAWING	
P)	FILE NAME: PTS-192.dwg DRAWING TYPE: 5A	SHEET 1 OF 1	
	DATE: APRIL 2022	PTS-192	