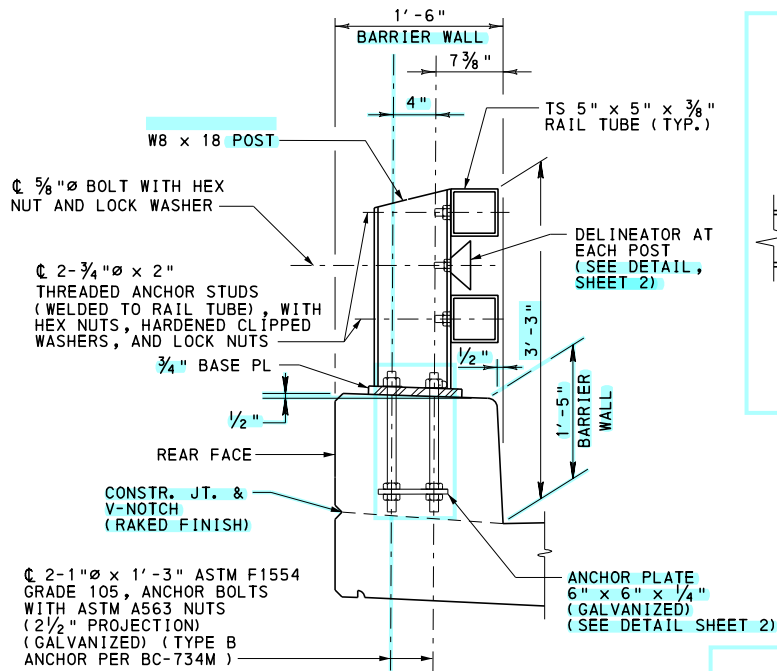
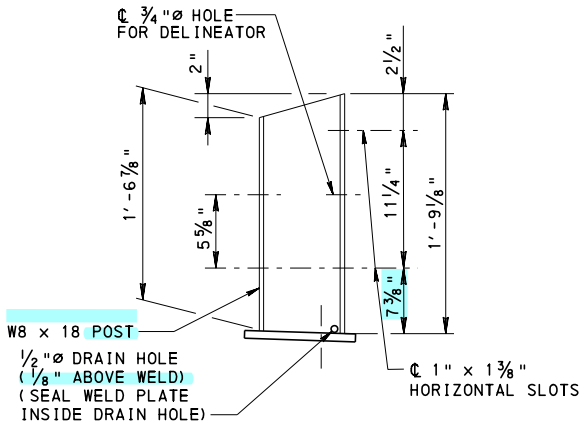


GENERAL NOTES:

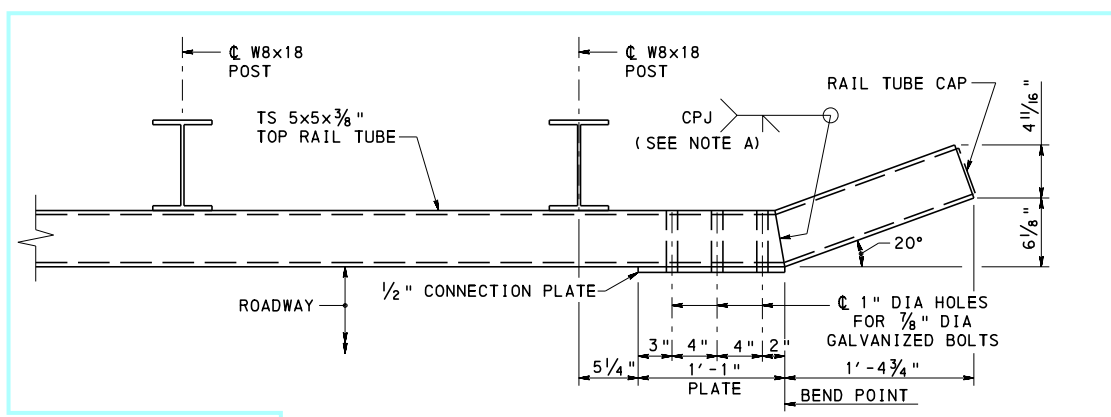
1. PROVIDE MATERIALS AND PERFORM WORK IN ACCORDANCE WITH PUBLICATION 408.
2. PROVIDE RAILING TUBES CONFORMING TO ASTM A500 GRADE B OR C.
3. PROVIDE RAILING POSTS CONFORMING TO AASHTO M270 (ASTM A709) GRADE 50 OR 50W OR ASTM A992. PROVIDE BASE PLATES CONFORMING TO AASHTO M270 (ASTM A709) GRADE 50 OR 50W. PROVIDE ANCHOR PLATES CONFORMING TO AASHTO M270 (ASTM A709) GRADE 36.
4. ALL RAILING COMPONENTS SHALL BE GALVANIZED (AFTER FABRICATION) ACCORDING TO PUBLICATION 408, SECTION 1105.02(g) UNLESS OTHERWISE SHOWN ON PLANS. GALVANIZE POSTS, BASE PLATES, ANCHOR PLATES, AND SPLICE SLEEVES ACCORDING TO ASTM A123. GALVANIZE RAIL TUBES ACCORDING TO ASTM A123, EXCEPT COATING ON THREADED STUDS AND NUTS USED WITH THE STUDS SHALL MEET THE REQUIREMENTS OF ASTM A153 FOR CLASS C MATERIAL. GALVANIZE ALL ANCHOR HARDWARE ACCORDING TO ASTM A153 OR ASTM B695.
5. THE RAILING TUBES ARE SHOP BENT OR FABRICATED TO FIT HORIZONTAL CURVE WHEN RADIUS IS LESS THAN 1,500 FEET.
6. PROVIDE THREADED ANCHOR STUDS CONFORMING TO ASTM A108 TYPE B.
7. STEEL TUBE TOLERANCES:
A. STRAIGHTNESS: THE PERMISSIBLE VARIATION FOR STRAIGHTNESS SHALL BE $\frac{1}{8}$ " TIMES THE NUMBER OF FEET OF THE TOTAL LENGTH DIVIDED BY 5.
B. TWIST: SPECIFIED DIMENSION OF THE LONGEST SIDE IN INCHES FROM OVER 4" TO 6" INCLUSIVE: 0.087" MAX TWIST IN THE FIRST 3 FEET AND IN EACH ADDITIONAL 3 FEET.
- NOTE - TWIST IS MEASURED BY HOLDING DOWN ONE END OF SQUARE OR RECTANGULAR TUBE ON A FLAT SURFACE PLATE WITH THE BOTTOM SIDE OF THE TUBE PARALLEL TO THE SURFACE PLATE AND NOTING THE HEIGHT DIFFERENCE BETWEEN THE TWO CORNERS AT THE OPPOSITE END OF THE BOTTOM SIDE OF THE TUBE.
8. ALL WELDING SHALL CONFORM TO THE PROVISIONS OF AASHTO/AWS BRIDGE WELDING CODE D1.5, EXCEPT USE AASHTO/AWS STRUCTURAL WELDING CODE D1.1 FOR WELDING NOT COVERED IN D1.5.
9. IF FLAME CUTTING OR PLASMA CUTTING IS USED TO CREATE SLOTTED HOLES, GRIND SMOOTH TO PROVIDE VERTICAL AND FLAT SURFACES ALONG THE HOLE.
10. THE OUT OF FLATNESS TOLERANCE FOR THE POST BASE PLATES IS $\frac{1}{16}$ " CHECKED BETWEEN EDGES OF THE PLATE IN ANY DIRECTION AFTER WELDING IS COMPLETED. THE CONTRACTOR MAY ELECT TO USE THICKER PLATE MATERIAL AND MILL THE BASE PLATE TO A THICKNESS OF NO LESS THAN $\frac{5}{8}$ " TO MEET THIS TOLERANCE.
11. BOLT TIGHTENING PROCEDURES ARE AS FOLLOWS:
SNUG TIGHTEN ALL ANCHOR BOLTS. TIGHTEN THE NUTS AN ADDITIONAL 1/3 TURN USING A WRENCH.
12. MILL TO BEAR IS DEFINED AS FOLLOWS:
A MINIMUM OF 25% OF THE POST WEB AND COMPRESSION FLANGE END AREA MUST FIT WITHIN $\frac{1}{32}$ " OF THE BASE PLATE WITH NO GAP MORE THAN 0.040" FOR THE REMAINING 75% OF THE END AREA.
13. FOR BARRIER RAIL TO POST CONNECTION AND SIDEWALK RAIL CONNECTION, USE AUTOMATIC WELDED THREADED ANCHOR STUDS MEETING THE REQUIREMENTS OF ASTM A108. USE HEX NUTS MEETING THE REQUIREMENTS OF ASTM A563. USE A $\frac{3}{16}$ " THICK PLATE LOCK WASHER ON EACH STUD AND A $\frac{3}{8}$ " THICK PLATE ASTM A709, GRADE 36 KSI WASHER. U-WASHERS SHALL MEET THE REQUIREMENTS OF ASTM A709, GRADE 36 KSI STEEL.
14. FOR ANCHOR BOLTS, USE 1" DIA. BOLTS CONFORMING TO THE REQUIREMENTS OF ASTM F1554, GRADE 105 KSI, INCLUDING THE SUPPLEMENTARY REQUIREMENT, S5, FOR CHARPY IMPACT STRENGTH. USE ASTM A563, GRADE DH HEAVY HEX NUTS. USE ONE ASTM F436 WASHER AT THE TOP.
15. NO POST REQUIRED ADJACENT TO FLUSH JOINTS AT WINGWALL, IF POSTS LOCATED AT EXPANSION JOINT/ABUTMENT CORNER.
16. THE CENTERLINE OF THE RAIL TUBE SPLICE TO A POST IS TO BE 1'-8" MINIMUM AND 2'-6" MAXIMUM FROM THE CENTERLINE OF THE RAILING POST.
17. ONE OR MORE 10'-0" MAXIMUM POST SPACINGS MAY BE REDUCED TO 5'-0" MINIMUM IN ORDER TO MAINTAIN APPROPRIATE SPACING DIMENSIONS FROM THE END OF THE RAIL, EXPANSION JOINTS AND DRAINAGE SCUPPERS.
18. LOCATE RAIL SPLICES AT EXPANSION JOINTS AND AT OTHER LOCATIONS, WHERE NECESSARY PROVIDE RAILS AS LONG AS PRACTICAL, WITH MINIMUM OF THREE POSTS BETWEEN SPLICES, UNLESS OTHERWISE REQUIRED FOR EXPANSION.
19. PROVIDE RAIL TUBES CONTINUOUS OVER NOT LESS THAN TWO RAILING POSTS. NO WELDED BUTT SPLICES WILL BE ALLOWED IN THE RAIL TUBE SECTION.
20. PLACE POST AND POST ANCHOR BOLTS NORMAL TO GRADE AND RAILS PARALLEL TO GRADE.
21. COAT ALL SURFACES OF THE BASE PLATE IN CONTACT WITH CONCRETE WITH CAULKING COMPOUND PRIOR TO ERECTION. AFTER ERECTION AND ALIGNMENT, SEAL OPENINGS BETWEEN THE METAL SURFACES AND THE CONCRETE WITH CAULKING COMPOUND CONFORMING TO PUBLICATION 408, SECTION 705.7(b).
22. THE PA TYPE 10M BRIDGE BARRIER IS DESIGNATED AS MASH TL-4.
23. FOR GUIDE RAIL TRANSITION TO PA TYPE 10M BRIDGE BARRIER, SEE RC-50M.
24. PROVIDE VERTICAL V-NOTCHES ON BARRIER WALL FRONT AND REAR FACES AT ALL POST ANCHOR BOLT LOCATIONS. SEE DETAIL THIS SHEET.



BARRIER SECTION



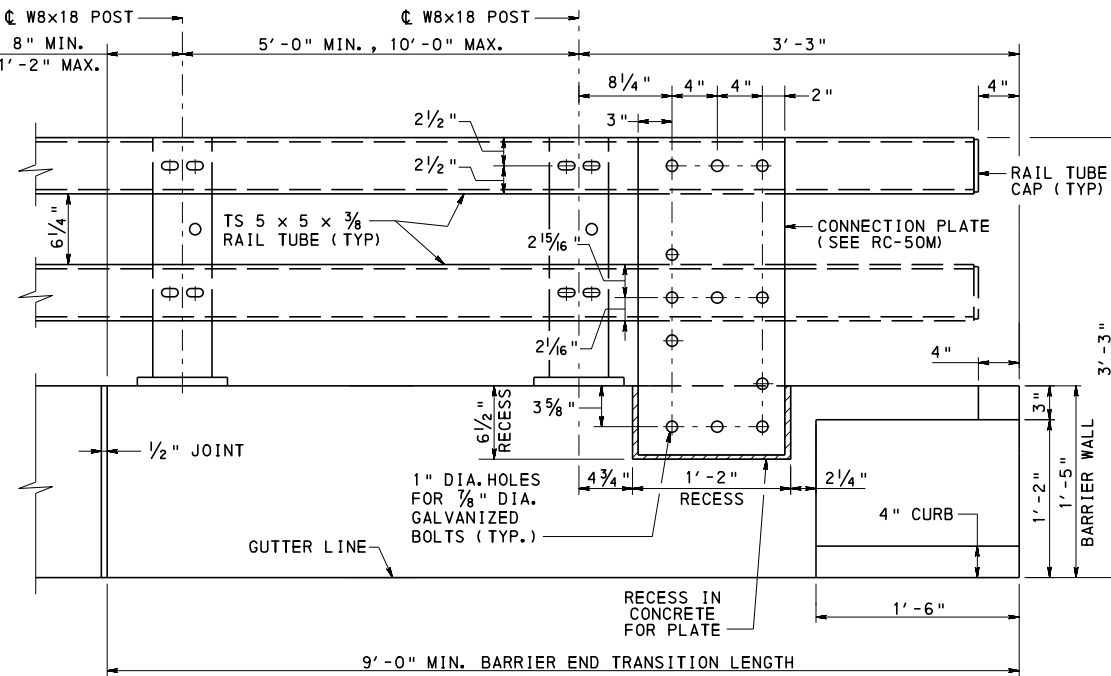
ELEVATION-POST



PLAN

(BARRIER WALL NOT SHOWN)

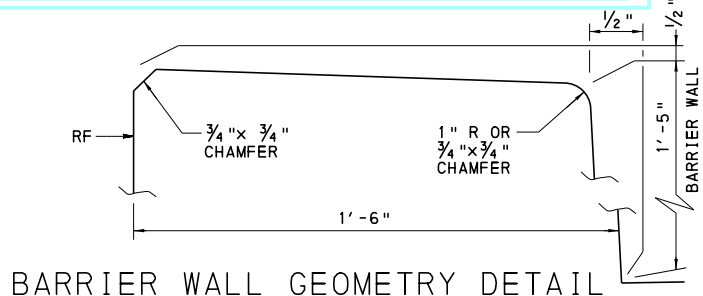
NOTE A:
COMPLETE JOINT PENETRATION GROOVE WELD. GRIND FLUSH ON OUTSIDE FACE. SHOW SPECIFIC WELD SYMBOL ON SHOP DRAWINGS.



ELEVATION

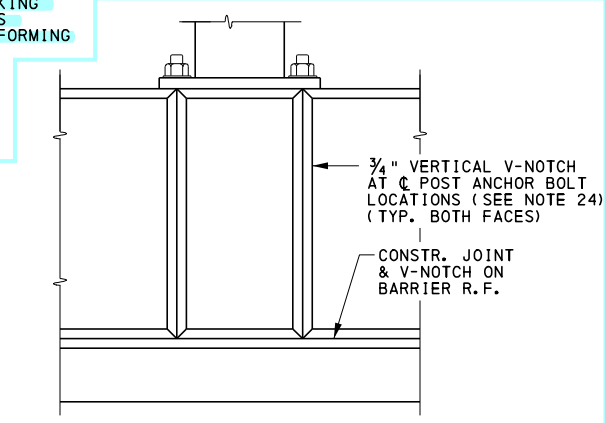
PA TYPE 10M BRIDGE BARRIER

(GUIDE RAIL AND ANCHOR BOLTS OMITTED FOR CLARITY)
(WITH CURB SHOWN, WITHOUT CURB SIMILAR)



BARRIER WALL GEOMETRY DETAIL

(BASE PLATE AND ANCHOR BOLTS NOT SHOWN FOR CLARITY)



VERTICAL V-NOTCH DETAIL

(BARRIER REAR FACE SHOWN, FRONT FACE SIMILAR)

BC-711M	ALUMINUM PROTECTIVE BARRIER
BC-720M	ALUMINUM OR STEEL BRIDGE HAND RAILING
BC-721M	ELECTRICAL DETAILS
BC-734M	ANCHOR SYSTEMS
BC-736M	REINFORCEMENT BAR FABRICATION DETAILS
BC-752M	CONCRETE DECK SLAB DETAILS
BC-762M	TOOTH EXPANSION DAM FOR PRESTRESSED CONCRETE AND STEEL BEAM BRIDGES
BC-767M	NEOPRENE STRIP SEAL DAM FOR PRESTRESSED CONCRETE AND STEEL I-BEAM BRIDGES
BC-799M	MECHANICALLY STABILIZED EARTH RETAINING WALLS
RC-20M	CONCRETE PAVEMENT JOINTS
RC-50M	GUIDE RAIL TO BRIDGE BARRIER TRANSITIONS

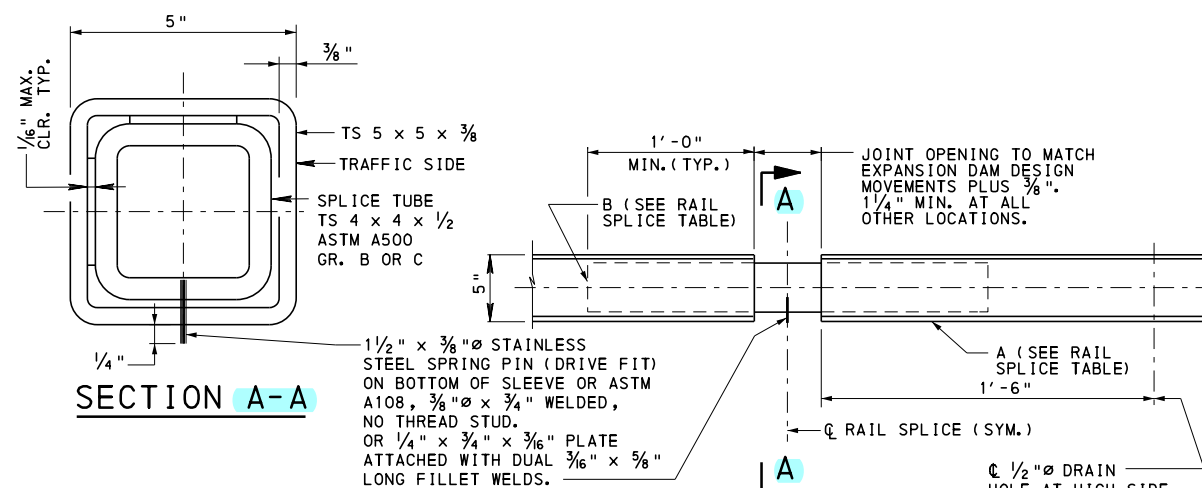
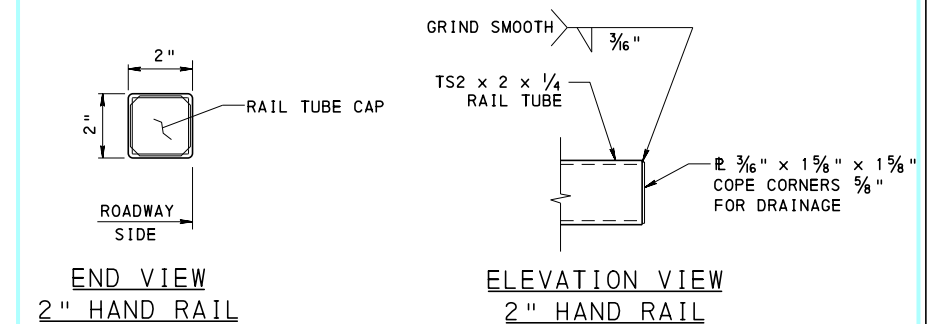
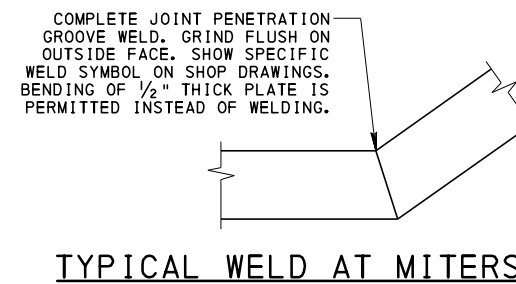
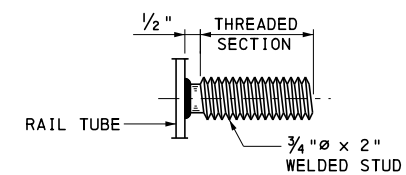
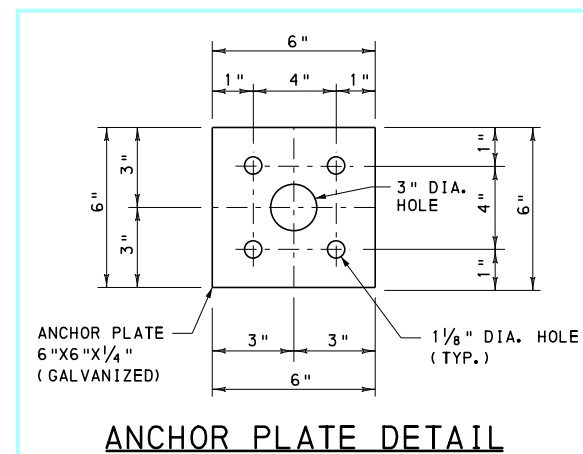
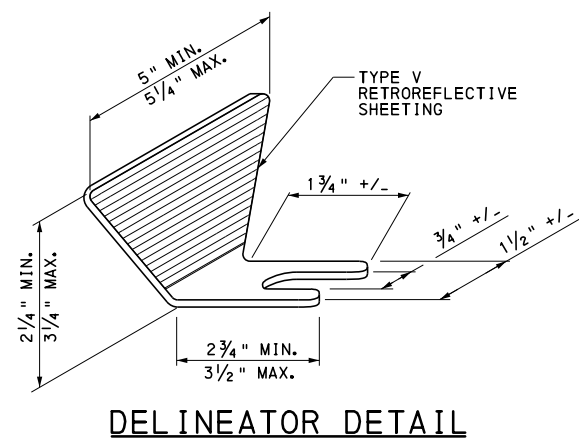
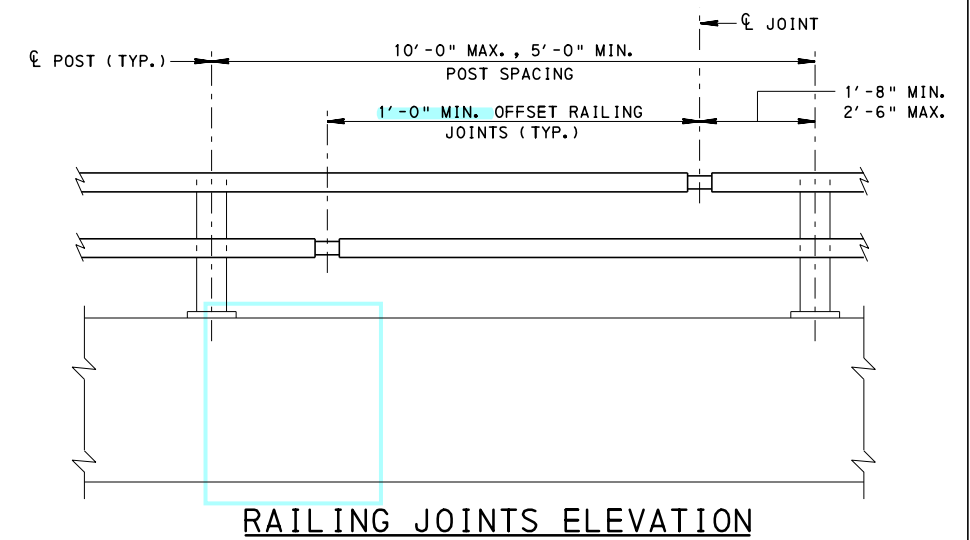
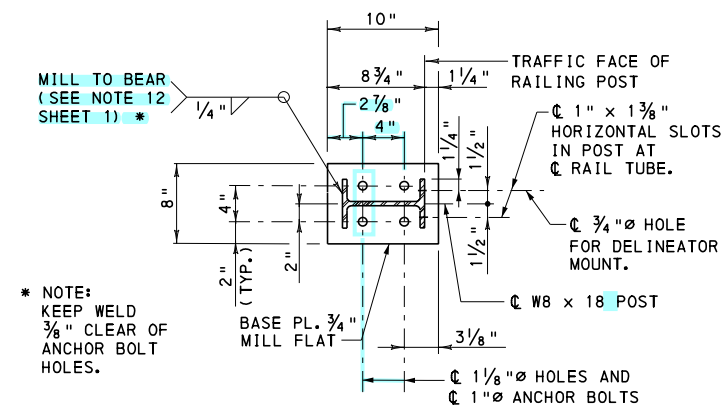
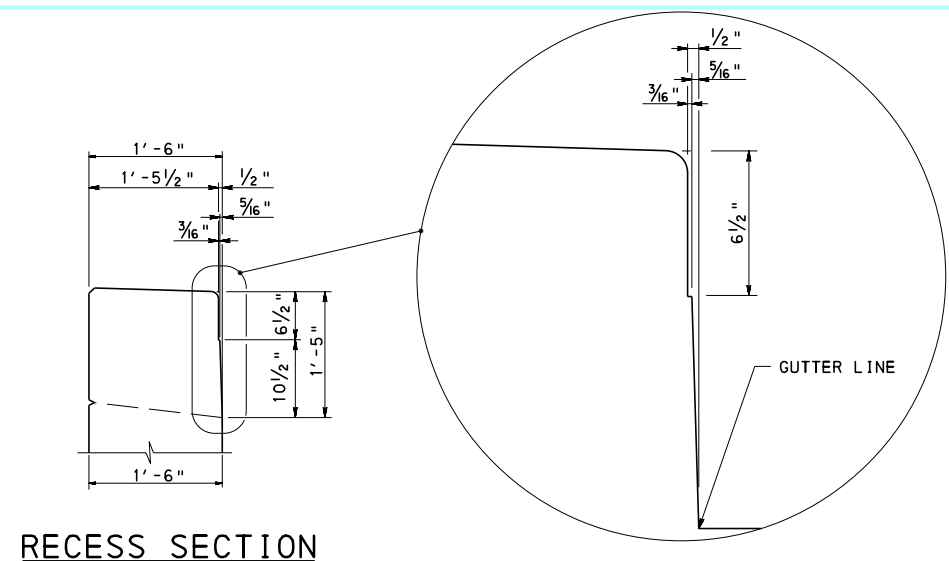
REFERENCE DRAWINGS

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF PROJECT DELIVERY

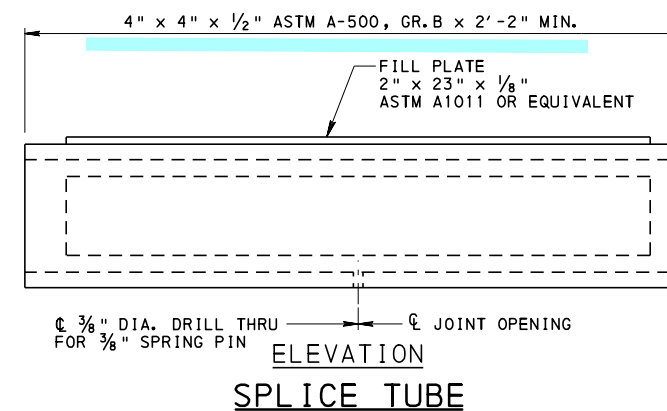
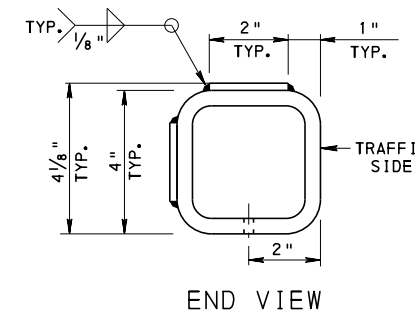
STANDARD

PA TYPE 10M BRIDGE BARRIER
MISCELLANEOUS DETAILS

RECOMMENDED FEB. 19, 2021 Thomas P. Mociore CHIEF BRIDGE ENGINEER	RECOMMENDED FEB. 19, 2021 Brenda Thompson DIRECTOR, BUR. OF PROJECT DELIVERY	SHEET 1 OF 12 BC-709M
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RAIL SPLICE TABLE	
A (RAIL TUBE)	B (SPLICE TUBE)
TS 5 x 5 x 3/8	TS 4 x 4 x 1/2 ASTM A500, GR. B OR C
TS 2 x 2 x 1/4	1 1/4" x 1 1/4" ROD ASTM A709, GR. 36 OR 50



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF PROJECT DELIVERY

STANDARD

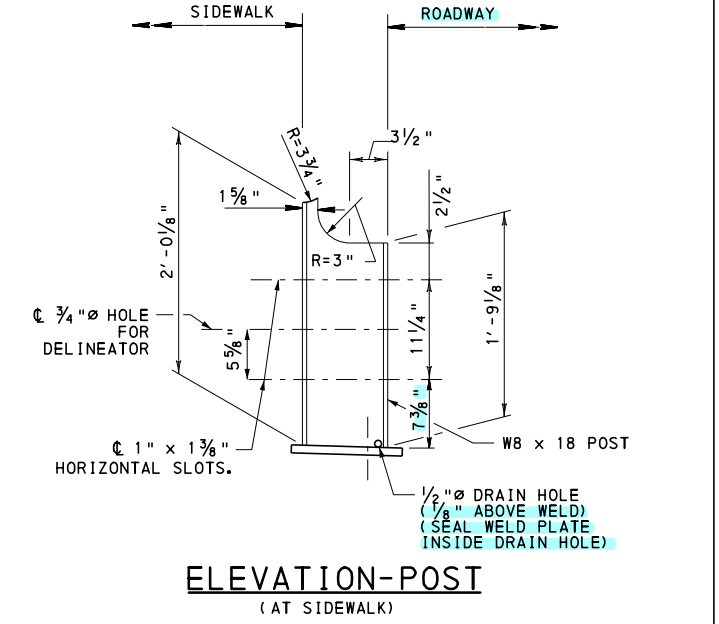
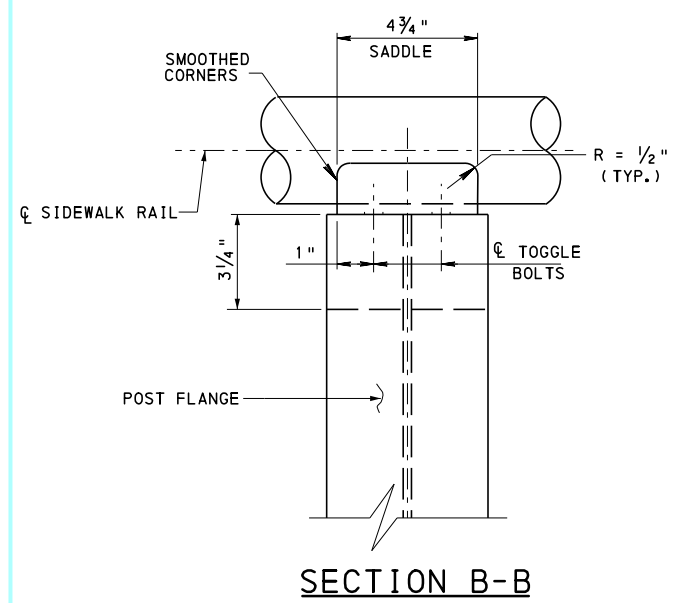
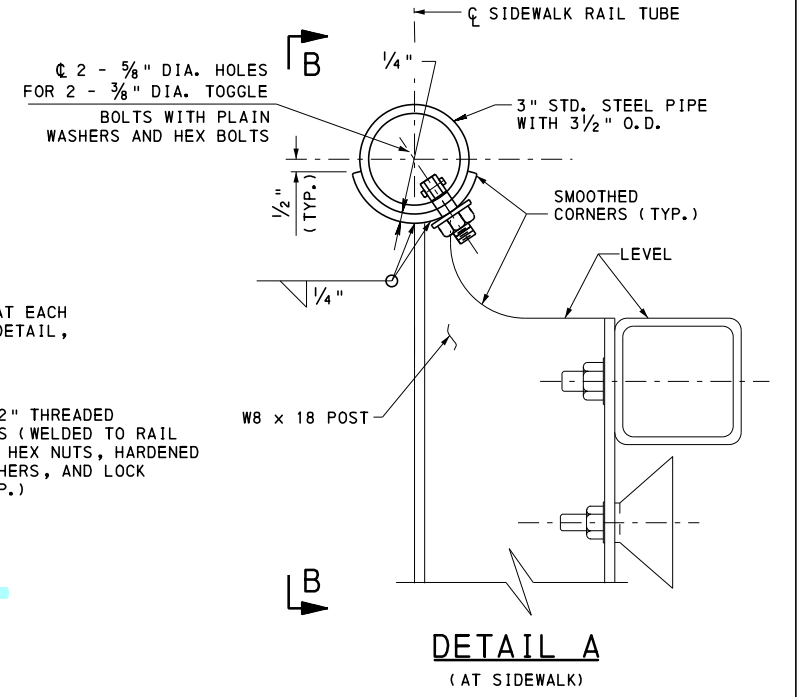
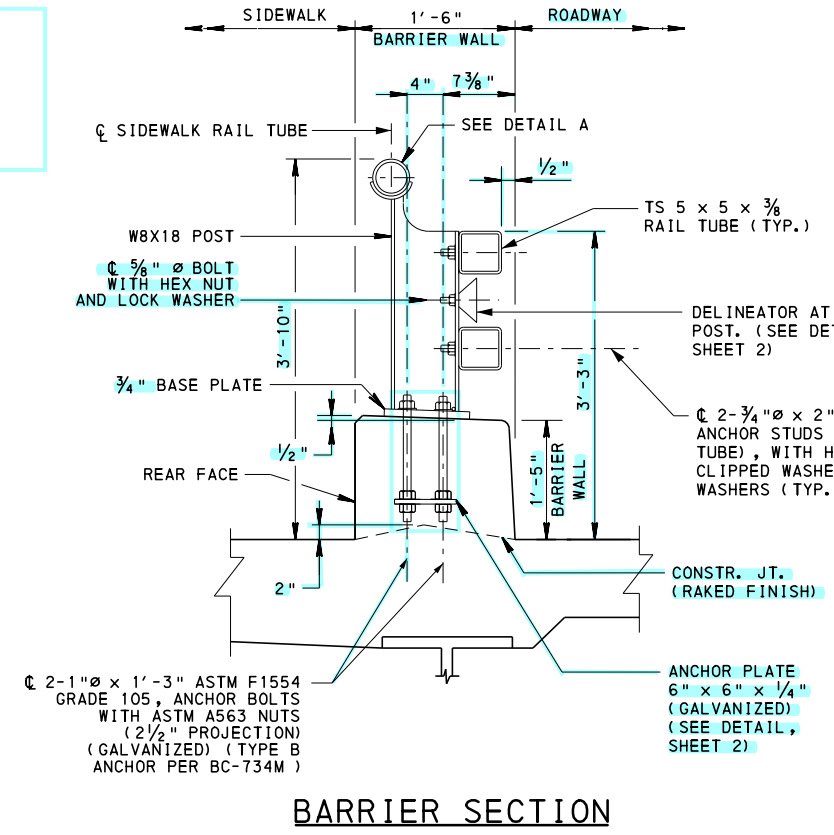
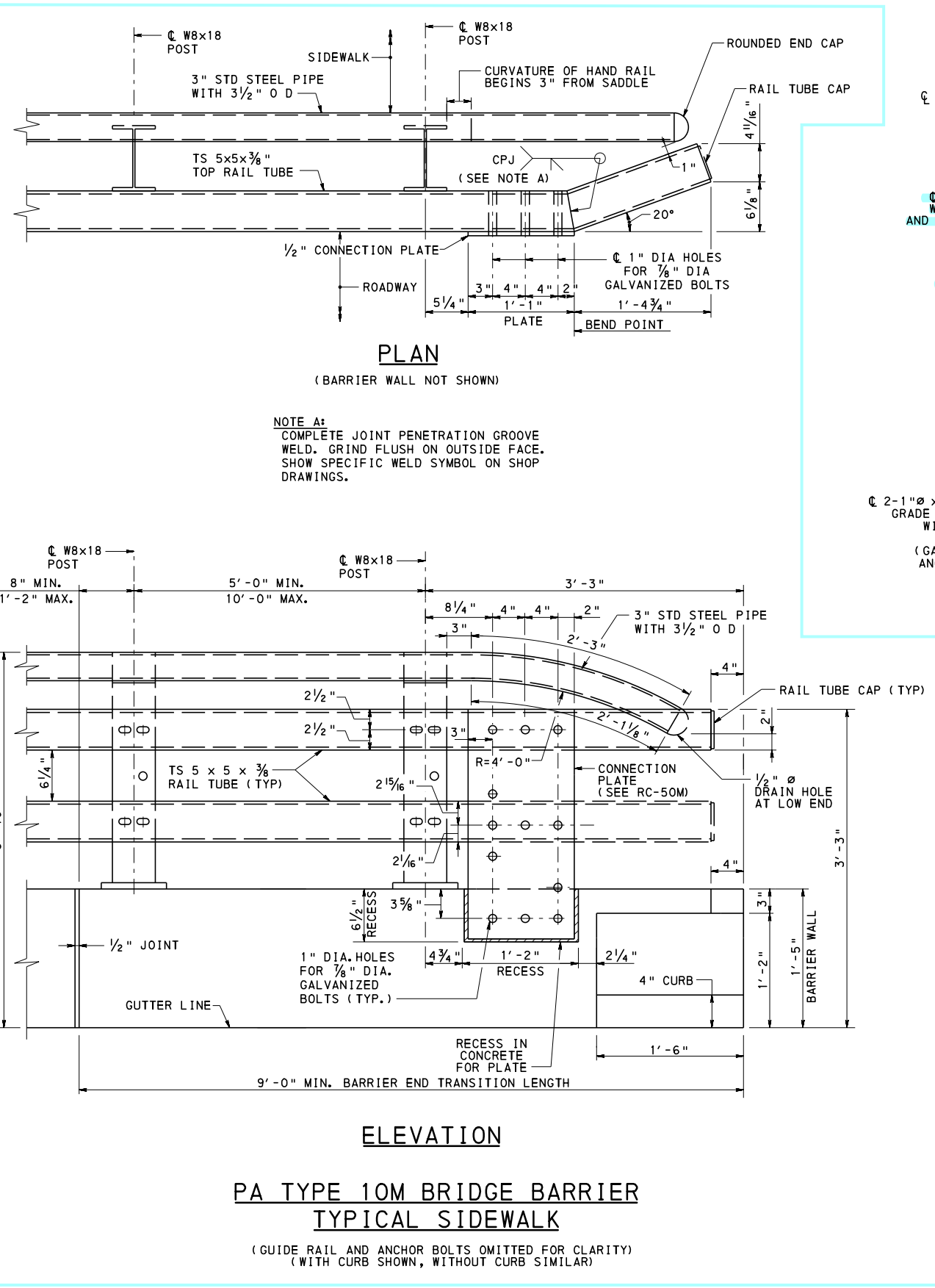
PA TYPE 10M BRIDGE BARRIER
MISCELLANEOUS DETAILS

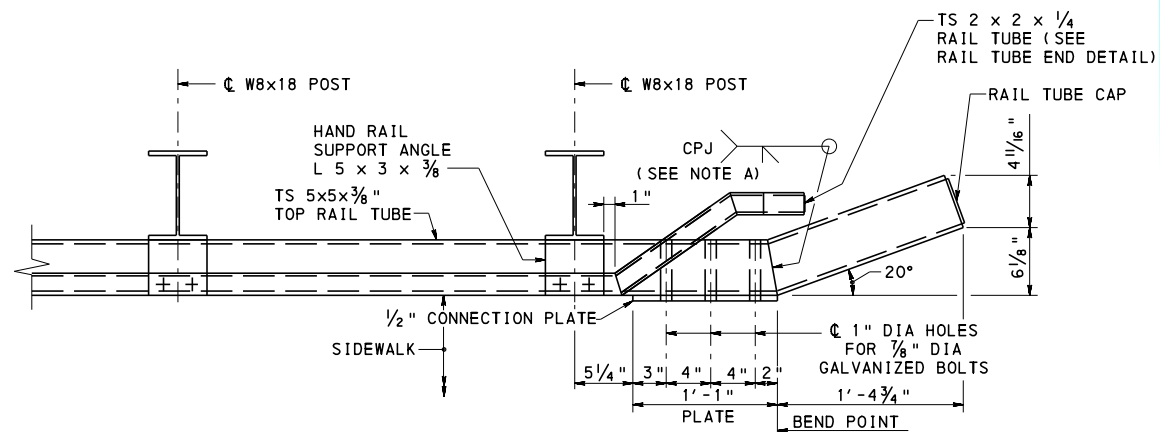
RECOMMENDED FEB. 19, 2021
Thomas P. Maciore
CHIEF BRIDGE ENGINEER

RECOMMENDED FEB. 19, 2021
Bruce E. Thompson
 DIRECTOR, BUR. OF PROJECT DELIVERY

SHEET 2 OF 12
BC-709M

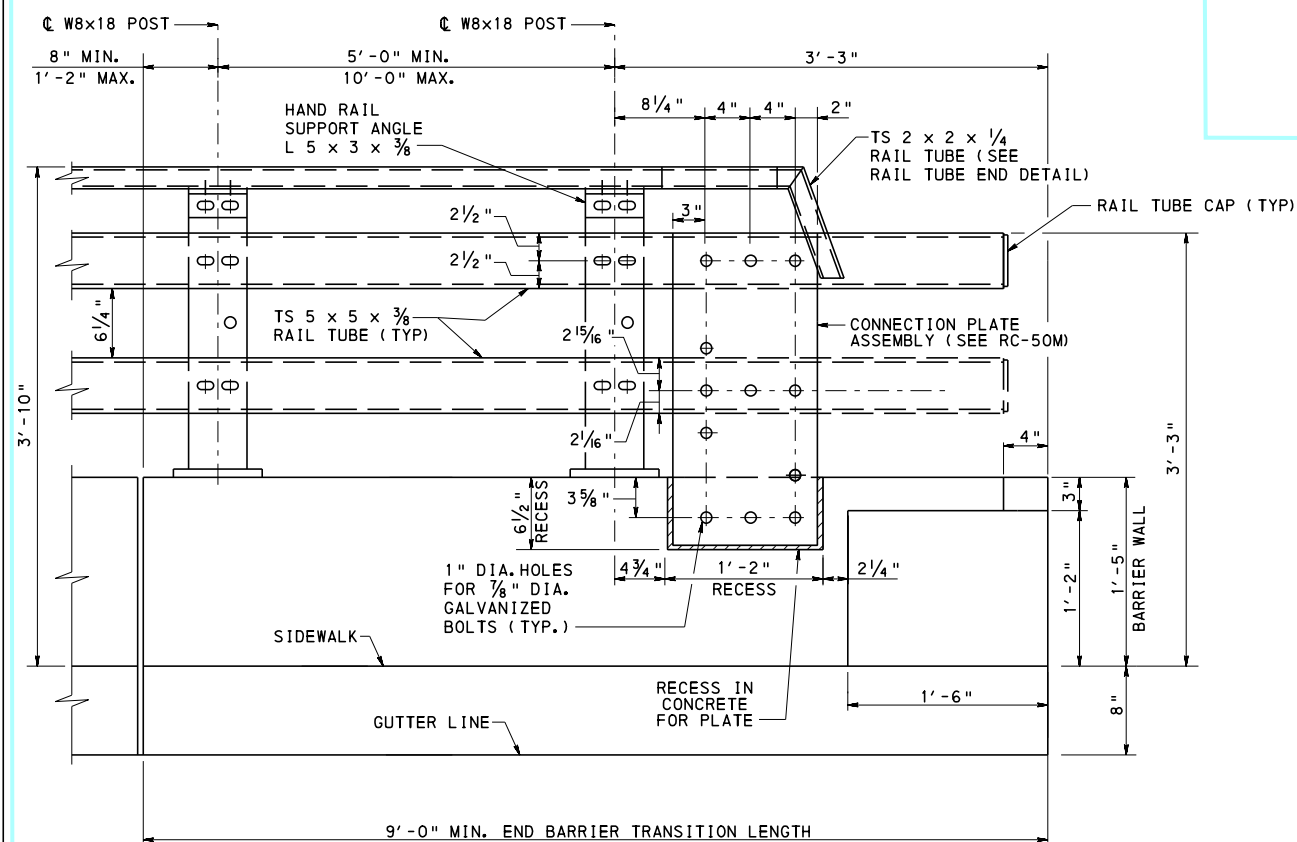
BC-709M





PLAN
(BARRIER WALL NOT SHOWN)

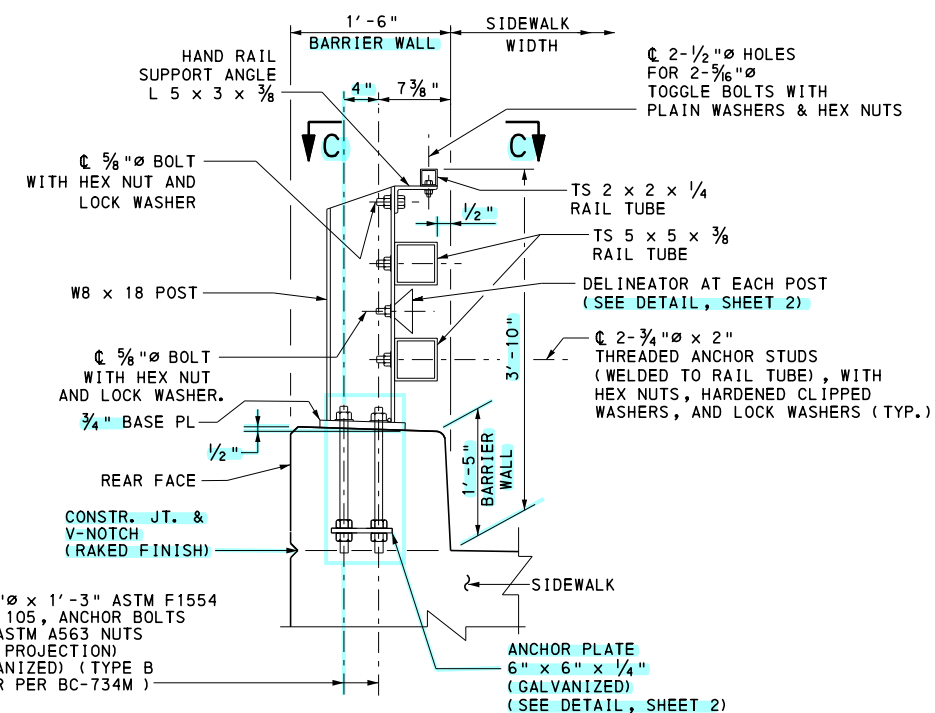
NOTE A:
COMPLETE JOINT PENETRATION GROOVE
WELD. GRIND FLUSH ON OUTSIDE FACE.
SHOW SPECIFIC WELD SYMBOL ON SHOP
DRAWINGS.



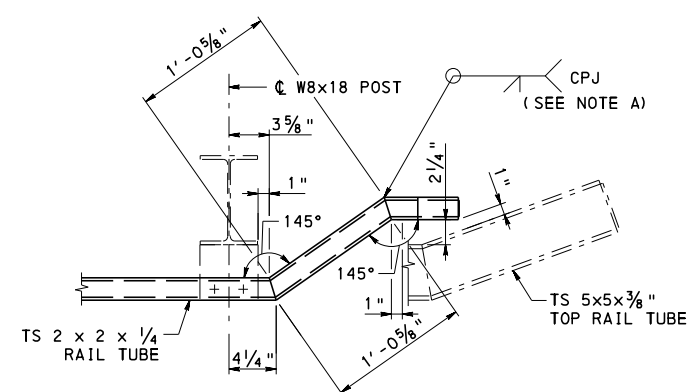
ELEVATION

**PA TYPE 10M BRIDGE BARRIER
ALTERNATE SIDEWALK**

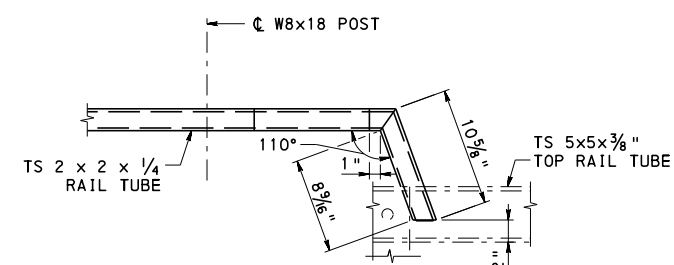
(GUIDE RAIL AND ANCHOR BOLTS OMITTED FOR CLARITY)
(WITHOUT CURB SHOWN, WITH CURB SIMILAR)



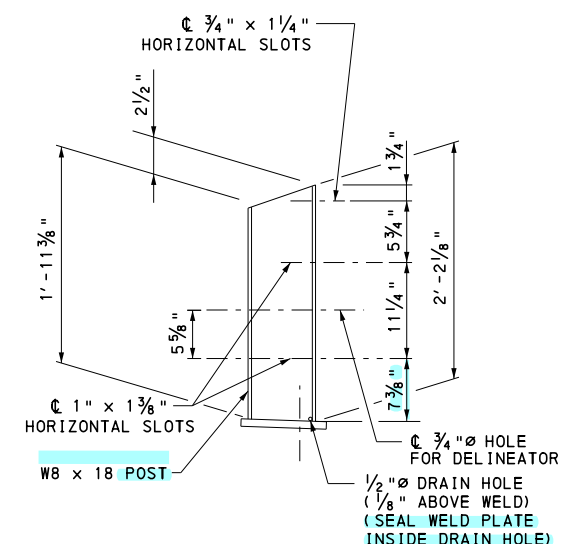
BARRIER SECTION



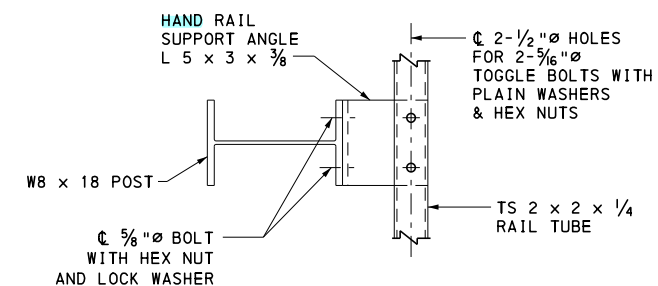
PLAN



**ELEVATION
RAIL TUBE END DETAIL**



ELEVATION-POST
(AT ALTERNATE SIDEWALK)



SECTION C-C

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF PROJECT DELIVERY**

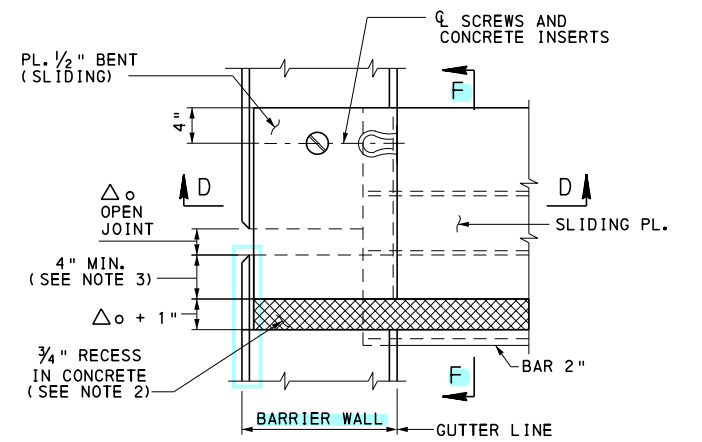
STANDARD

**PA TYPE 10M BRIDGE BARRIER
ALTERNATE SIDEWALK DETAILS**

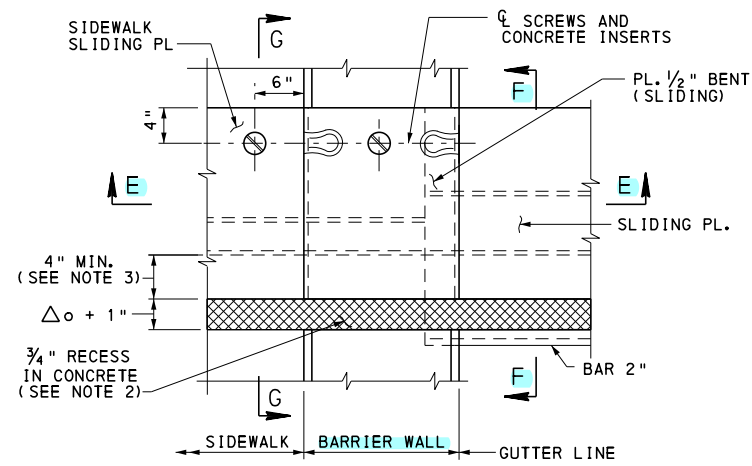
RECOMMENDED FEB. 19, 2021
Thomas P. Mociore
CHIEF BRIDGE ENGINEER

RECOMMENDED FEB. 19, 2021
Bruce Thompson
DIRECTOR, BUR. OF PROJECT DELIVERY

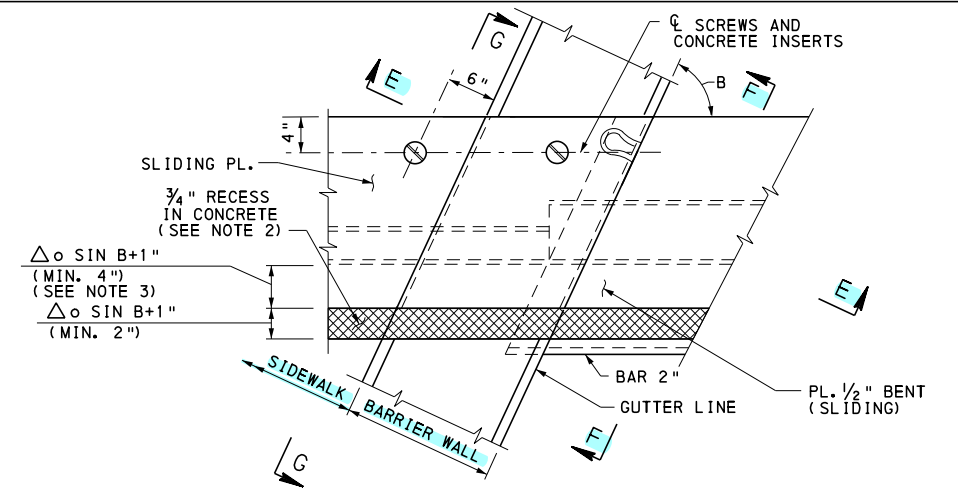
SHEET 4 OF 12
BC-709M



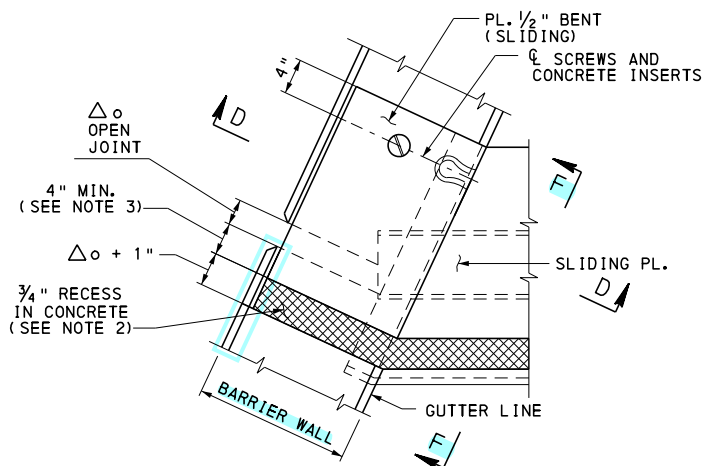
PLAN - SKEW ANGLE $\geq 75^\circ$
(AT GUTTER LINE SHOWN;
AT ALTERNATE SIDEWALK SIMILAR)



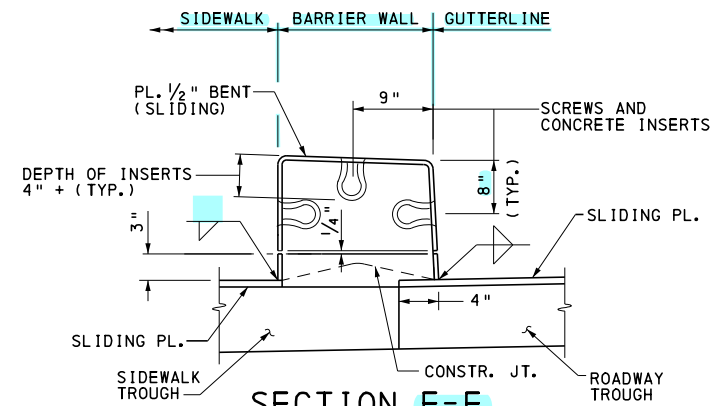
PLAN AT TYPICAL SIDEWALK- SKEW ANGLE $\geq 75^\circ$



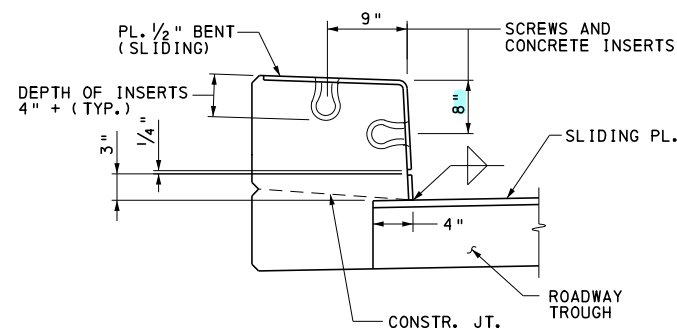
PLAN AT TYPICAL SIDEWALK- SKEW ANGLE $< 75^\circ$



PLAN - SKEW ANGLE $< 75^\circ$
(AT GUTTER LINE SHOWN;
AT ALTERNATE SIDEWALK SIMILAR)

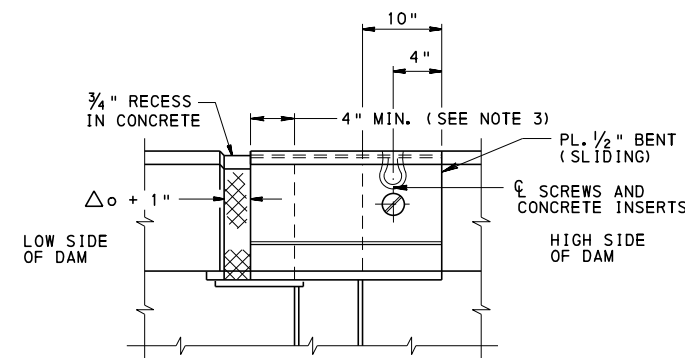


SECTION E-E



SECTION D-D

(NO SIDEWALK CONDITION SHOWN;
ALTERNATE SIDEWALK SIMILAR)



SECTION F-F

(SECTION G-G IS OPPOSITE HAND)

PA TYPE 10M BRIDGE BARRIER AT TOOTH EXPANSION DAM

(RAILING POST AND TUBE RAILS NOT SHOWN)

NOTES:

- FOR Δ_o SEE BC-762M
- FORM CONCRETE RECESS AREA IN BARRIER WALL AND GRIND TO PROVIDE SMOOTH SURFACE. APPLY ONE COAT OF ASPHALT CEMENT PAINT WA-1 OR PERFORMANCE GRADED ASPHALT CEMENT PG 64-22 TO ALLOW BENT SLIDING PLATE TO MOVE FREELY WITHOUT FRICTION.
- MAINTAIN 4" MIN. BETWEEN EDGE OF STEEL TO THE EDGE OF CONCRETE AT TEMP. OF -10°F FOR STEEL BRIDGES AND 10°F FOR P/S CONCRETE BRIDGES.
- MAXIMUM DISTANCE FROM EDGE OF EXTENSION OR BEND TO FIRST STUD IS 3".

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF PROJECT DELIVERY

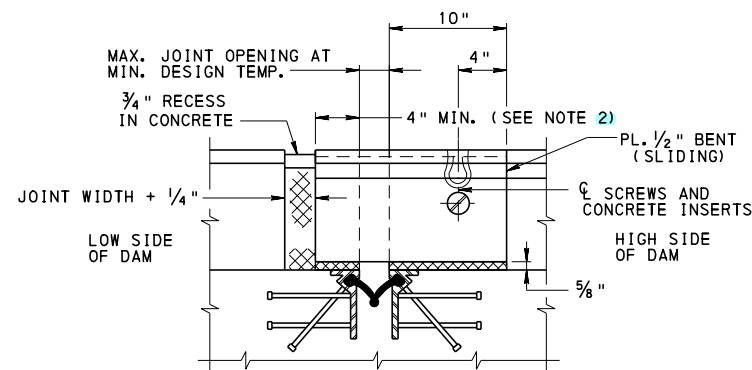
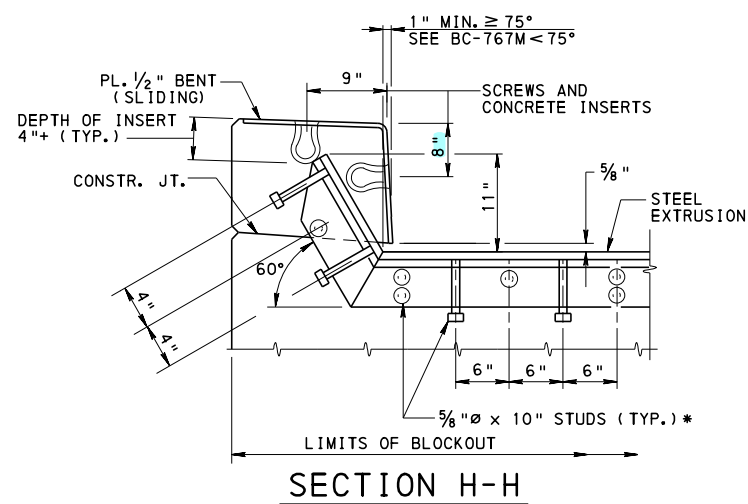
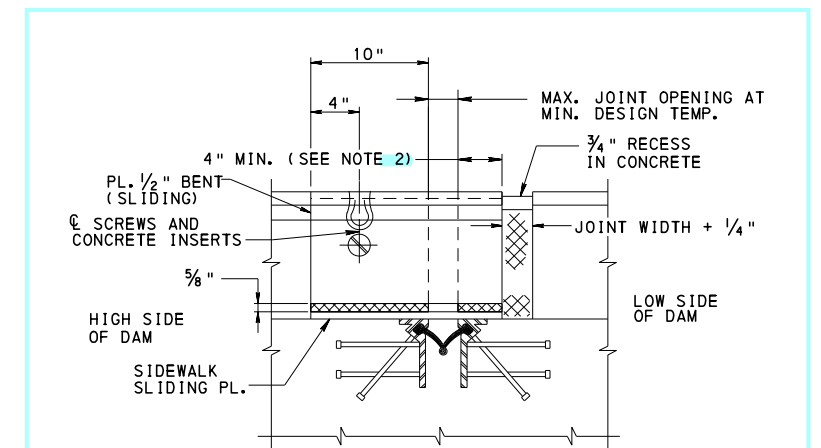
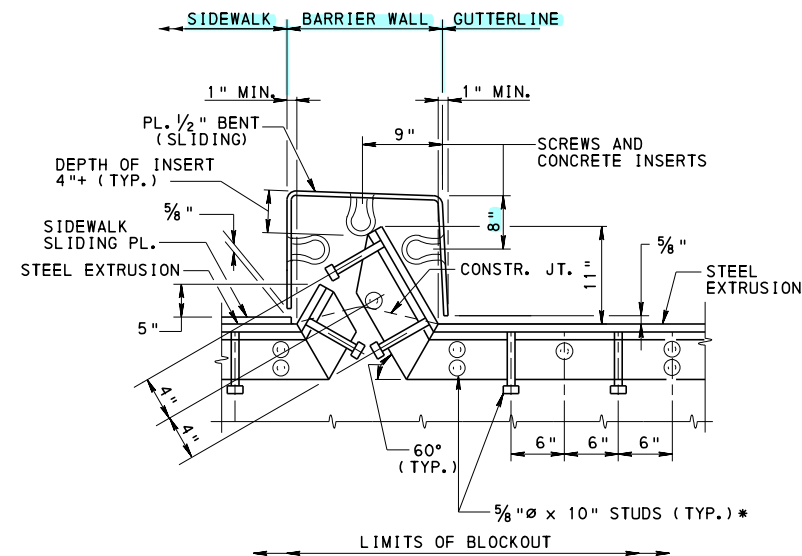
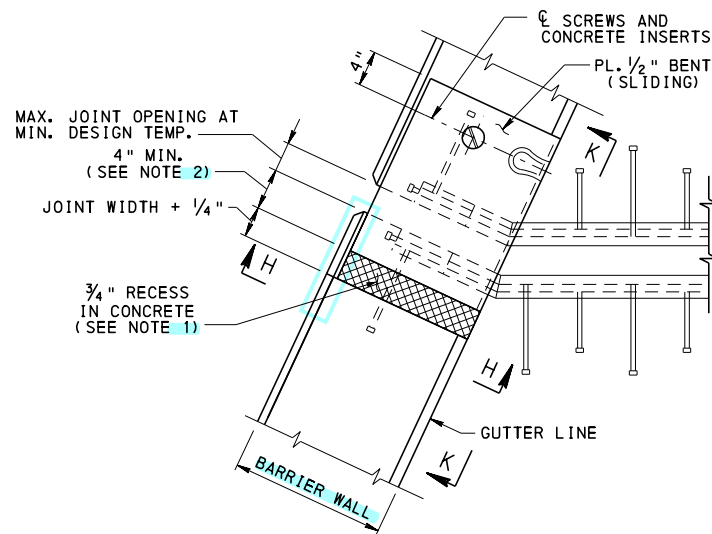
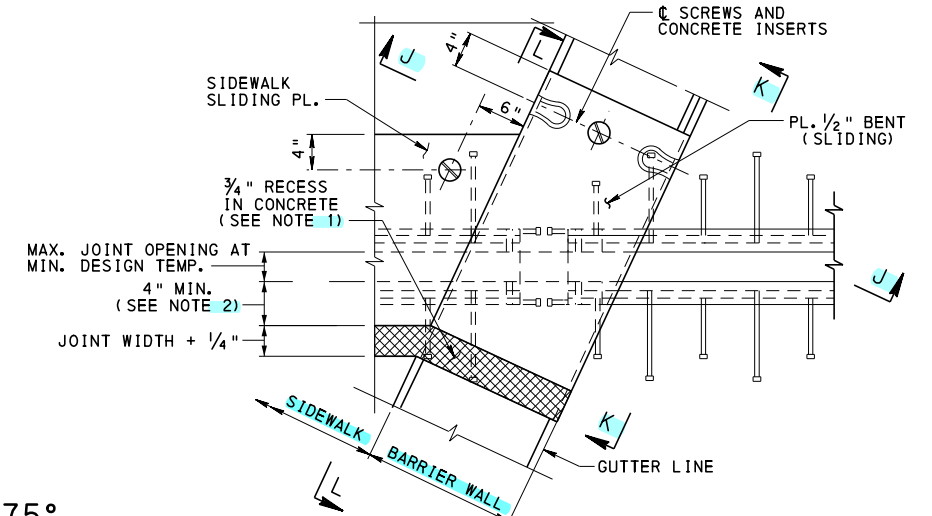
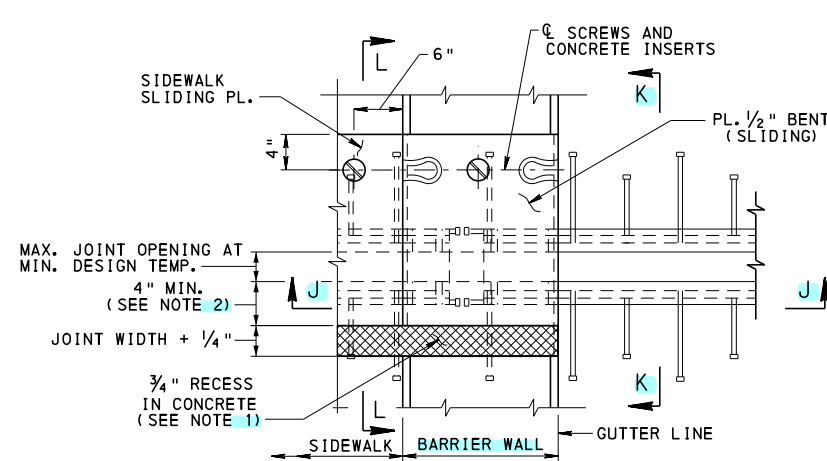
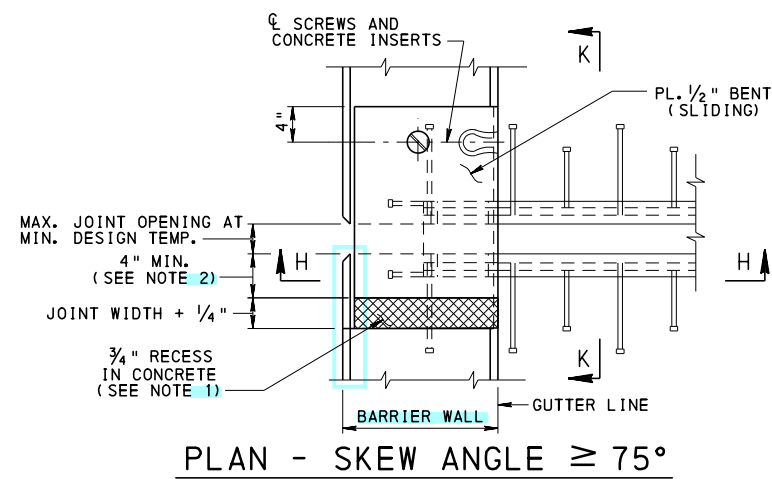
STANDARD

PA TYPE 10M BRIDGE BARRIER
DETAILS AT TOOTH EXPANSION DAM

RECOMMENDED FEB. 19, 2021
Thomas P. Mociore
CHIEF BRIDGE ENGINEER

RECOMMENDED FEB. 19, 2021
Brenda Thompson
DIRECTOR, BUR. OF PROJECT DELIVERY

SHEET 5 OF 12
BC-709M



NOTES:

1. FORM CONCRETE RECESS AREA IN BARRIER WALL AND GRIND TO PROVIDE SMOOTH SURFACE. APPLY ONE COAT OF ASPHALT CEMENT PAINT WA-1 OR PERFORMANCE GRADED ASPHALT CEMENT PG 64-22 TO ALLOW BENT SLIDING PLATE TO MOVE FREELY WITHOUT FRICTION.
2. MAINTAIN 4" MIN. BETWEEN EDGE OF STEEL TO THE EDGE OF CONCRETE AT TEMP. OF -10°F FOR STEEL BRIDGES AND 10°F FOR P/S CONCRETE BRIDGES.
3. MAXIMUM DISTANCE ALONG THE EXTRUSION FROM EDGE OF EXTENSION OR BEND TO FIRST STUD IS 3".

PA TYPE 10M BRIDGE BARRIER AT NEOPRENE STRIP SEAL DAM (RAILING POST AND TUBE RAILS NOT SHOWN)

* IF 10" STUDS CANNOT BE ACCOMMODATED IN THE SPACE AVAILABLE, REQUEST SPECIFIC LENGTH APPROVAL FROM THE DISTRICT BRIDGE ENGINEER AT THE SHOP DRAWINGS APPROVAL STAGE.

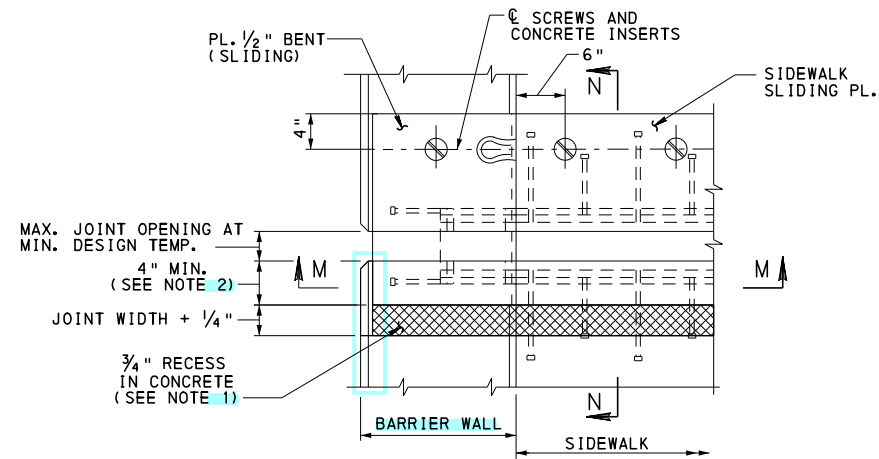
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF PROJECT DELIVERY

STANDARD
PA TYPE 10M BRIDGE BARRIER
DETAILS AT NEOPRENE
STRIP SEAL DAM

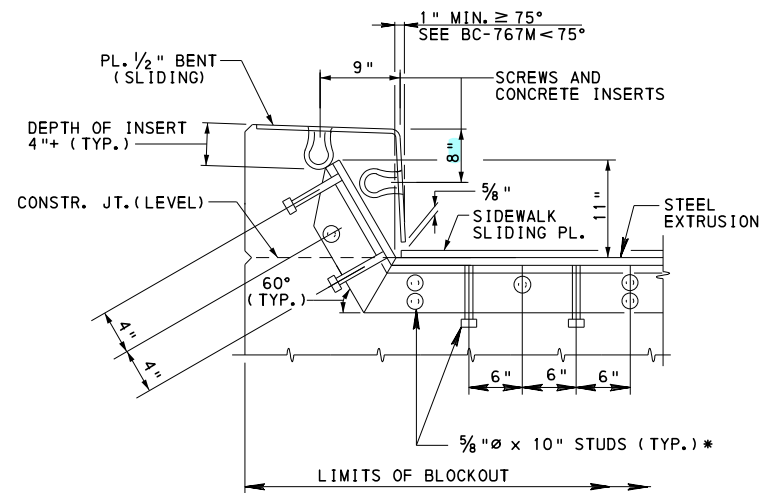
RECOMMENDED FEB. 19, 2021
Thomas P. Mociore
CHIEF BRIDGE ENGINEER

RECOMMENDED FEB. 19, 2021
Brenda Thompson
DIRECTOR, BUR. OF PROJECT DELIVERY

SHEET 6 OF 12
BC-709M

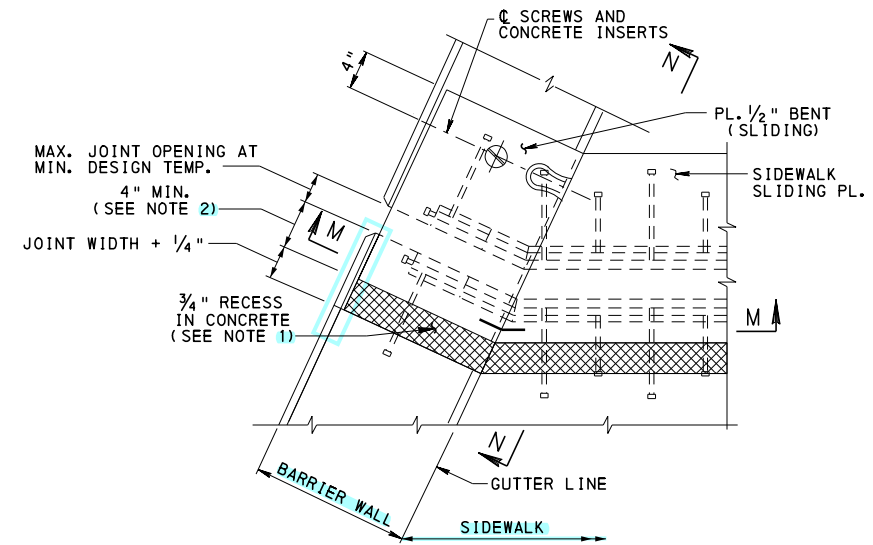


PLAN AT ALTERNATE SIDEWALK- SKEW ANGLE $\geq 75^\circ$

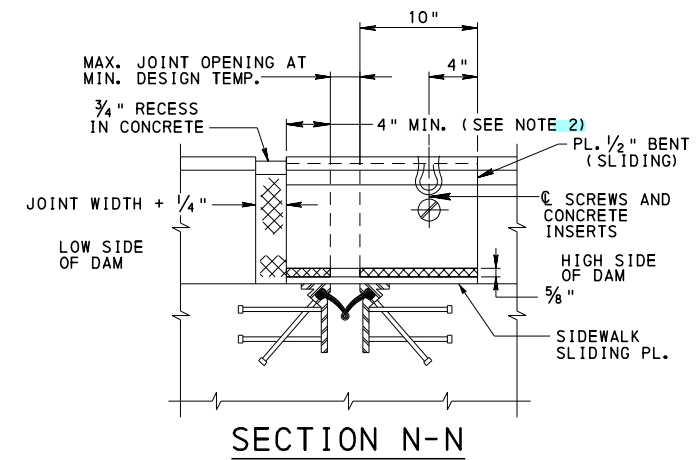


SECTION M-M

PA TYPE 10M BRIDGE BARRIER AT NEOPRENE STRIP SEAL DAM
(RAILING POST AND TUBE RAILS NOT SHOWN)



PLAN AT ALTERNATE SIDEWALK- SKEW ANGLE $< 75^\circ$



SECTION N-N

NOTES:

1. FORM CONCRETE RECESS AREA IN BARRIER WALL AND GRIND TO PROVIDE SMOOTH SURFACE. APPLY ONE COAT OF ASPHALT CEMENT PAINT WA-1 OR PERFORMANCE GRADED ASPHALT CEMENT PG 64-22 TO ALLOW BENT SLIDING PLATE TO MOVE FREELY WITHOUT FRICTION.
2. MAINTAIN 4" MIN. BETWEEN EDGE OF STEEL TO THE EDGE OF CONCRETE AT TEMP. OF -10°F FOR STEEL BRIDGES AND 10°F FOR P/S CONCRETE BRIDGES.
3. MAXIMUM DISTANCE ALONG THE EXTRUSION FROM EDGE OF EXTENSION OR BEND TO FIRST STUD IS 3".

* IF 10" STUDS CANNOT BE ACCOMMODATED IN THE SPACE AVAILABLE, REQUEST SPECIFIC LENGTH APPROVAL FROM THE DISTRICT BRIDGE ENGINEER AT THE SHOP DRAWINGS APPROVAL STAGE.

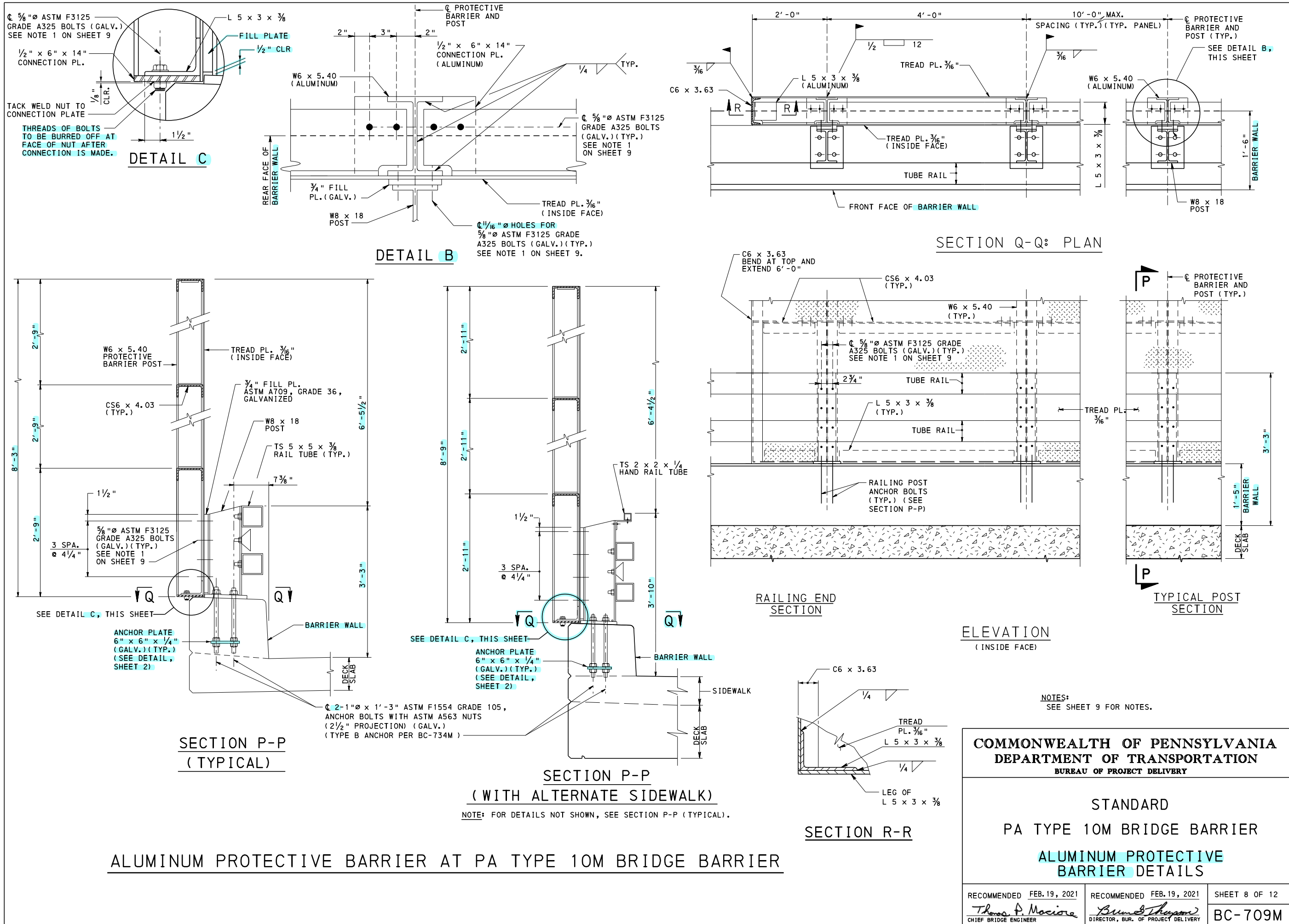
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF PROJECT DELIVERY

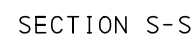
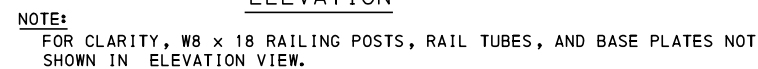
STANDARD
PA TYPE 10M BRIDGE BARRIER
DETAILS AT NEOPRENE
STRIP SEAL DAM

RECOMMENDED FEB. 19, 2021
Thomas P. Mociore
CHIEF BRIDGE ENGINEER

RECOMMENDED FEB. 19, 2021
Brenda Thompson
DIRECTOR, BUR. OF PROJECT DELIVERY

SHEET 7 OF 12
BC-709M



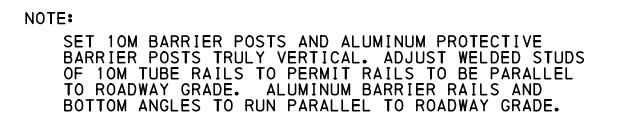


ALUMINUM PROTECTIVE BARRIER AT PA TYPE 10M BRIDGE BARRIER

[illegible]

DETAIL D

1. PROVIDE ELASTOMERIC PADS OR WASHERS 1/8" MIN. THICKNESS CONFORMING TO PUBLICATION 408, SECTION 1113.03 (h), TYPE I, BETWEEN CONTACT SURFACES WHEREVER ALUMINUM COMPONENTS COME IN CONTACT WITH GALVANIZED STEEL. ALSO PROVIDE FABRIC BUSHINGS WITH MATERIAL CONFORMING TO PUBLICATION 408, SECTION 1113.03(h), TYPE II, WHEREVER GALVANIZED STEEL BOLTS COME IN CONTACT WITH ALUMINUM.
2. PROVIDE ALL COMPONENTS AND DETAILS OF ALUMINUM PROTECTIVE BARRIER AS SHOWN ON BC-711M, EXCEPT AS MODIFIED HERE.
3. EXPANSION DETAILS, SLOTTED OPENINGS, AND CLEARANCES SHOWN ARE FOR MOVEMENTS UP TO 2" EXPANSION OR 2" CONTRACTION. ADJUST ALL EXPANSION JOINT DETAILS SHOWN AND PROVIDE SPECIAL DETAILS AS REQUIRED FOR LARGER MOVEMENTS.



POST MOUNTING ON GRADE

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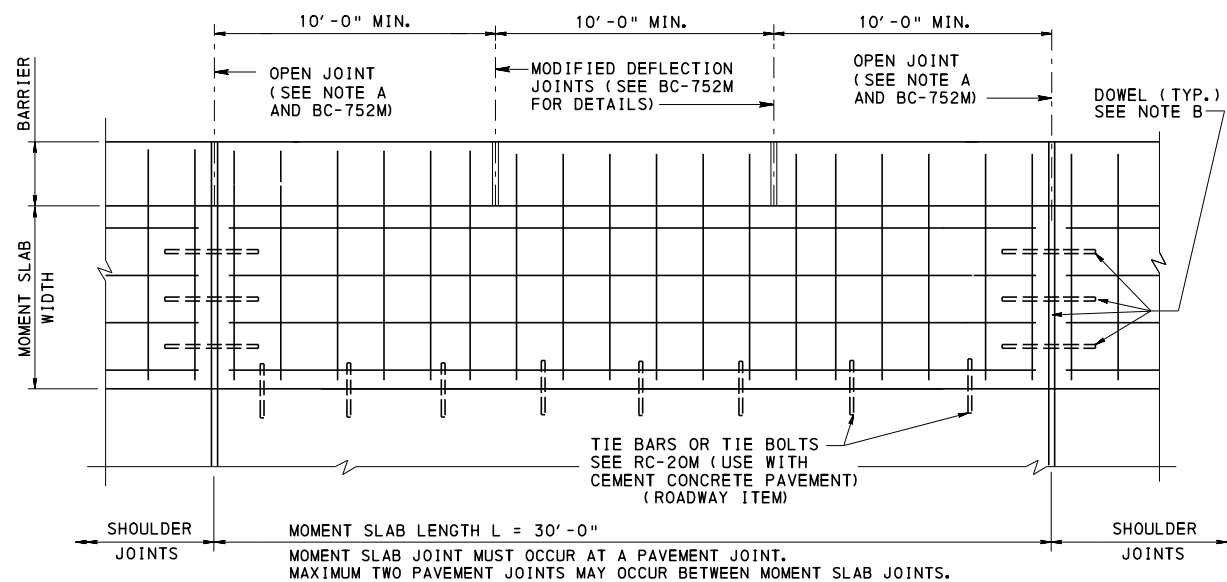
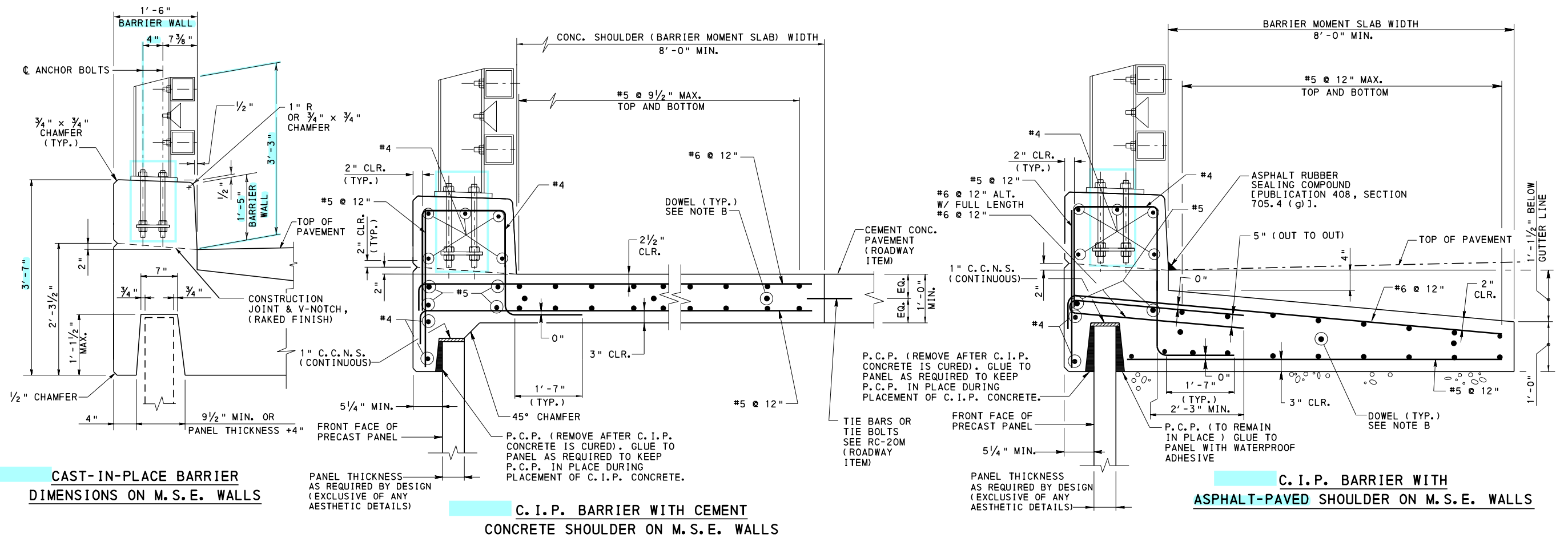
STANDARD PA TYPE 10M BRIDGE BARRIER ALUMINUM PROTECTIVE BARRIER DETAILS

RECOMMENDED FEB. 19, 2021
Thomas P. Maciore
CHIEF BRIDGE ENGINEER

RECOMMENDED FEB. 19, 2021
Bruce B. Thompson
 DIRECTOR, BUR. OF PROJECT DELIVERY

SHEET 9 OF 12

BC-709M

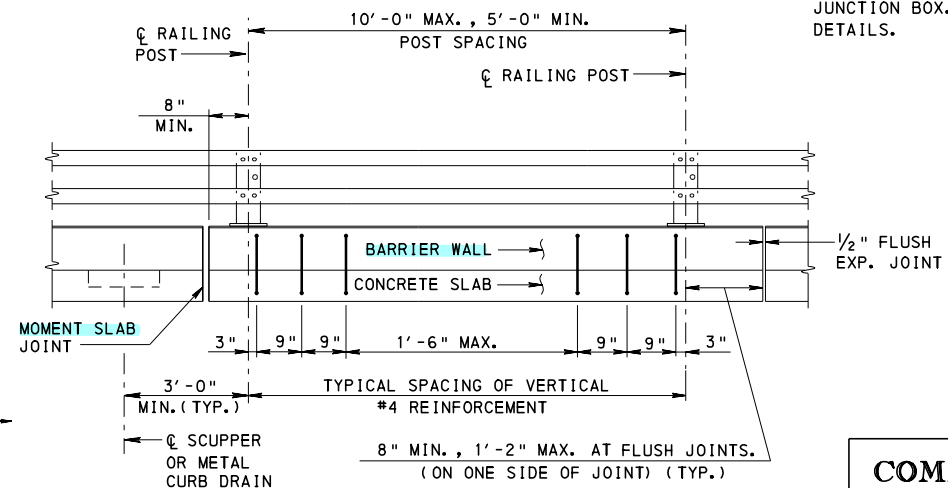


NOTE A: PROVIDE OPEN JOINTS IN BARRIER AT SAME LOCATIONS AS THOSE PROVIDED FOR THE MOMENT SLAB.

NOTE B: USE TYPE D OR E JOINT PER RC-27M. USE SAME JOINT AS PROVIDED IN PAVEMENT.

PLAN - BARRIER MOMENT SLAB (C.I.P. BARRIER)

PA TYPE 10M CAST IN PLACE BARRIER ON M.S.E. WALLS



NOTES:

- FOR GENERAL NOTES ON CONSTRUCTION OF PREFABRICATED WALLS, SEE BC-799M, SHEET 1.
- PLACE EXPANSION JOINTS IN **BARRIER WALL** TO MATCH PAVEMENT JOINTS. DO NOT LOCATE THE **BARRIER WALL** EXPANSION JOINT WITHIN 6'-0" FROM CENTERLINE OF LIGHT POLE OR 3'-6" FROM CENTERLINE OF JUNCTION BOX. SEE BC-799M, SHEET 8 AND 9, FOR INLET INSTALLATION DETAILS.

LEGEND:

C.C.N.S. = CLOSED CELL NEOPRENE SPONGE
P.C.P. = PREFORMED CELLULAR POLYSTYRENE

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF PROJECT DELIVERY**

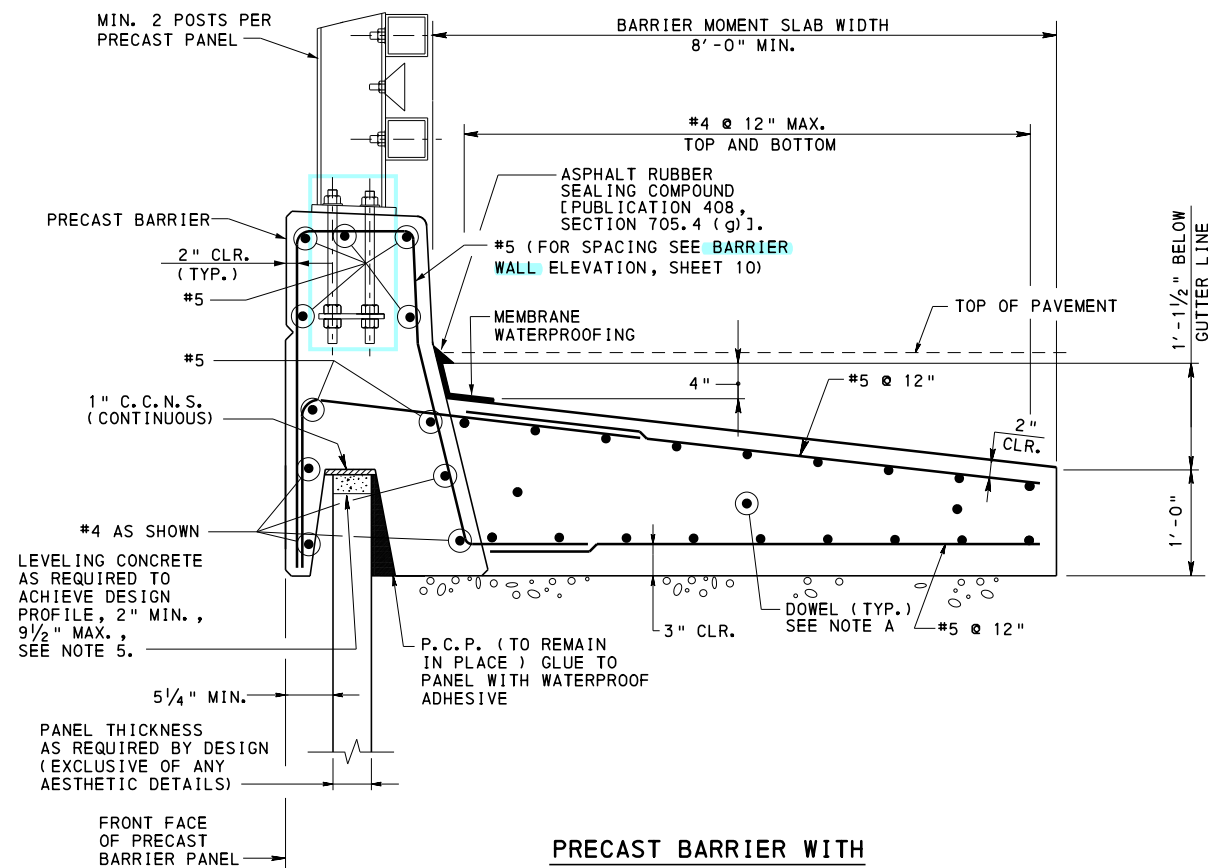
STANDARD

**PA TYPE 10M BRIDGE BARRIER
M.S.E. WALL DETAILS**

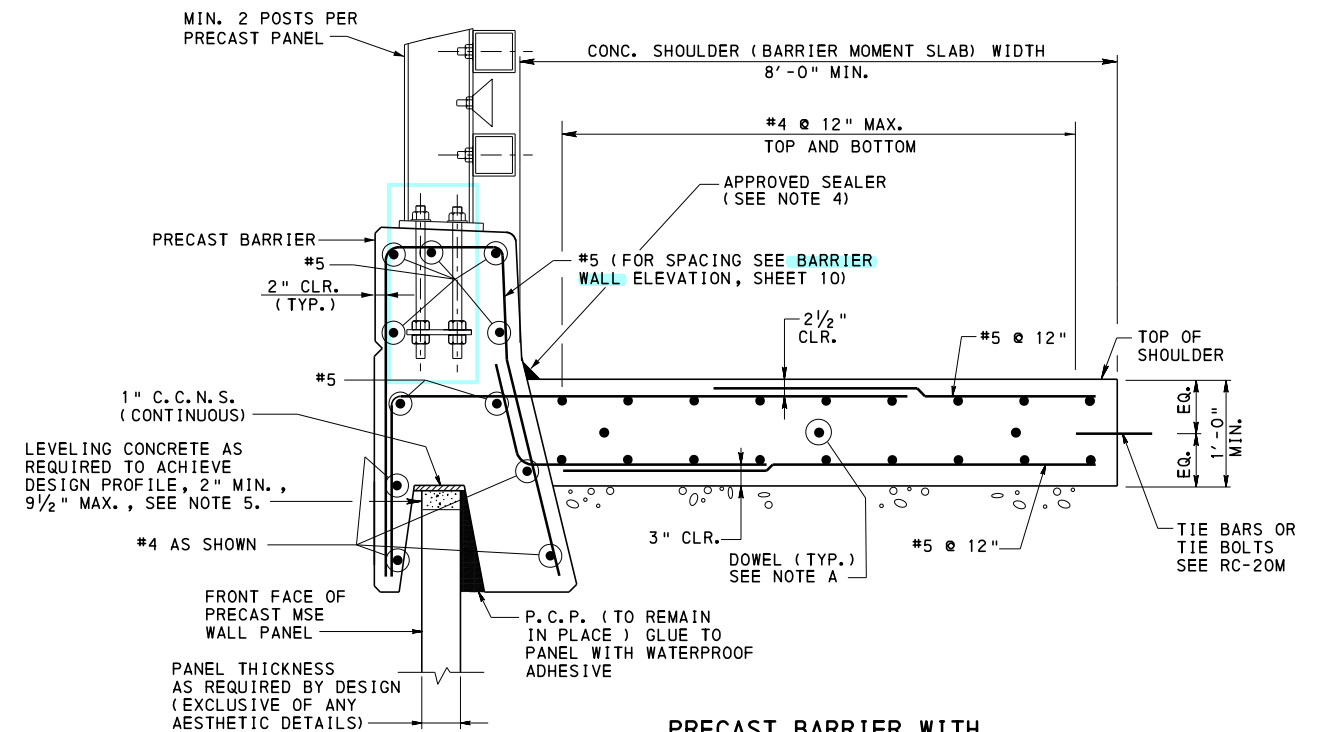
RECOMMENDED FEB. 19, 2021
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RECOMMENDED FEB. 19, 2021
Brian B. Thompson
DIRECTOR, BUR. OF PROJECT DELIVERY

SHEET 10 OF 12
BC-709M



PRECAST BARRIER WITH
ASPHALT-PAVED SHOULDER ON M.S.E. WALLS



PRECAST BARRIER WITH
CEMENT CONCRETE SHOULDER ON M.S.E. WALLS

NOTE A:

USE TYPE D OR E JOINT PER RC-27M. USE SAME JOINT AS PROVIDED IN PAVEMENT.

TRAFFIC BARRIER AND MOMENT SLAB NOTES:

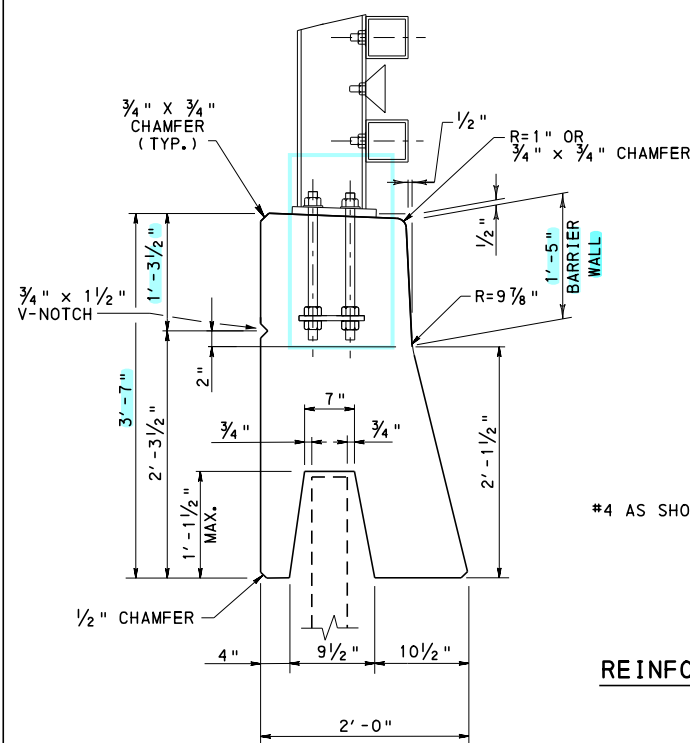
1. PLACE EXPANSION JOINTS IN BARRIER WALL TO MATCH PAVEMENT JOINTS. DO NOT LOCATE THE BARRIER WALL EXPANSION JOINT WITHIN 6'-0" FROM CENTERLINE OF LIGHT POLE OR 3'-6" FROM CENTERLINE OF JUNCTION BOX.
2. PROVIDE A MINIMUM PRECAST BARRIER LENGTH OF 10'-0".
3. PROVIDE SPECIAL DESIGN AND DETAILING OF THE MOMENT SLAB AND BARRIER FOR INLET INSTALLATIONS.
4. USE SILICONE JOINT SEALING MATERIAL AS SPECIFIED IN PUBLICATION 408, SECTION 705.4 (a).
5. PROVIDE LEVELING CONCRETE AS PER BC-799M, SHEET 3, DETAIL A.

NOTE:

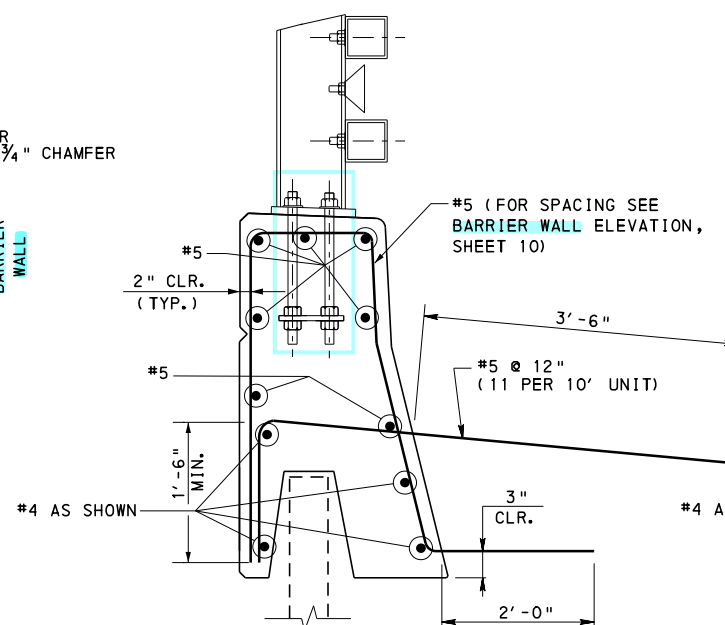
1. FOR NOTES, SEE SHEET 10.

LEGEND:

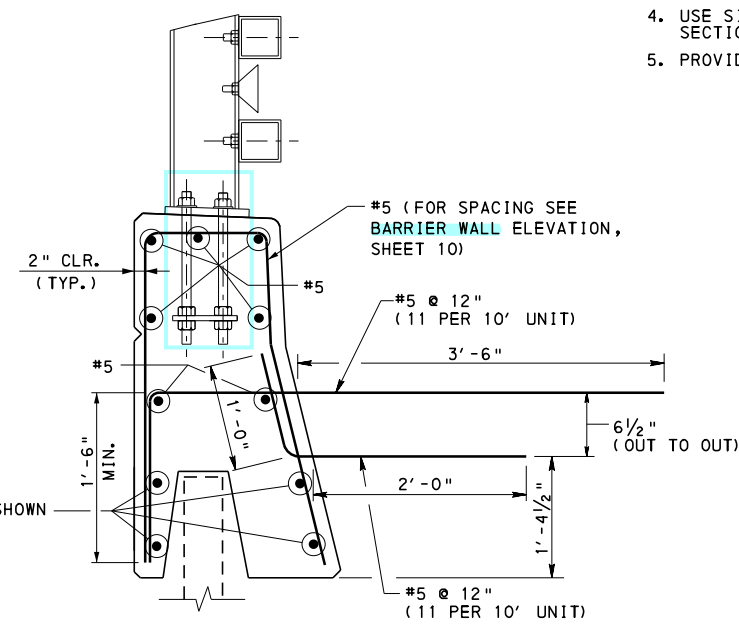
C.C.N.S. = CLOSED CELL NEOPRENE SPONGE
P.C.P. = PREFORMED CELLULAR POLYSTYRENE



DIMENSIONS



REINFORCEMENT FOR PRECAST BARRIER WITH
ASPHALT-PAVED SHOULDER



REINFORCEMENT FOR PRECAST BARRIER WITH
CEMENT CONCRETE SHOULDER

PA TYPE 10M PRECAST BARRIER ON M.S.E. WALLS

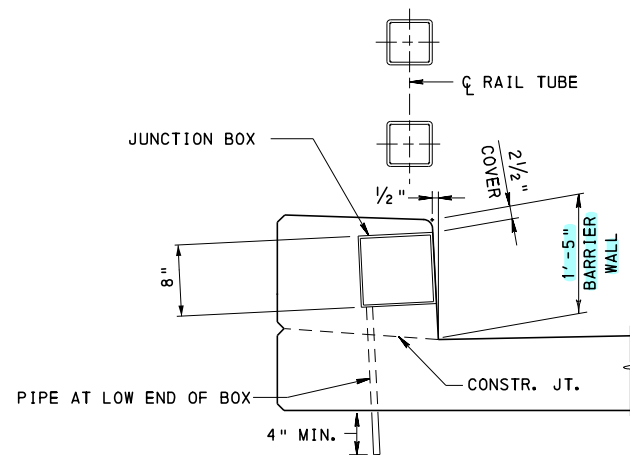
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF PROJECT DELIVERY

STANDARD
PA TYPE 10M BRIDGE BARRIER
M.S.E. WALL DETAILS

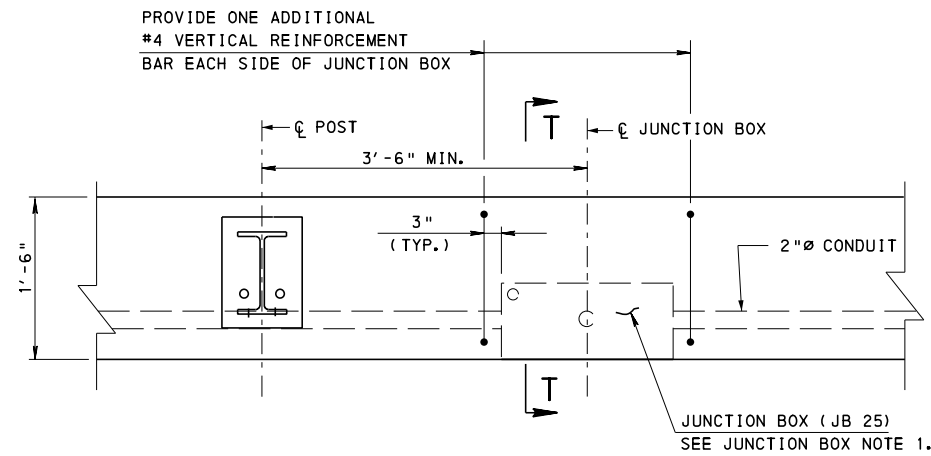
RECOMMENDED FEB. 19, 2021
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CHIEF BRIDGE ENGINEER

RECOMMENDED FEB. 19, 2021
Brenda Thompson
DIRECTOR, BUR. OF PROJECT DELIVERY

SHEET 11 OF 12
BC-709M



SECTION T-T

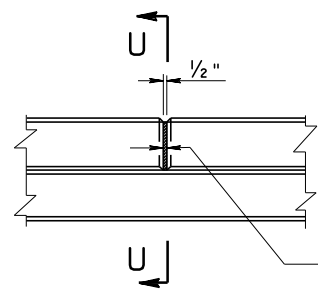


PLAN
(RAIL TUBE NOT SHOWN)

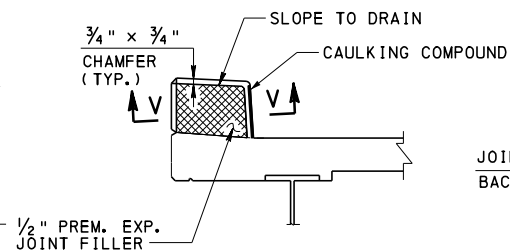
JUNCTION BOX NOTES:

1. JUNCTION BOX MAY BE LOCATED EITHER TO THE LEFT OR TO THE RIGHT OF THE LIGHTING POLE.
2. JUNCTION BOXES ARE ONLY REQUIRED, IF SPECIFIED ON THE CONTRACT DRAWINGS.
3. FOR **TYPICAL SIDEWALK**, PLACE JUNCTION BOX ON SIDEWALK SIDE.

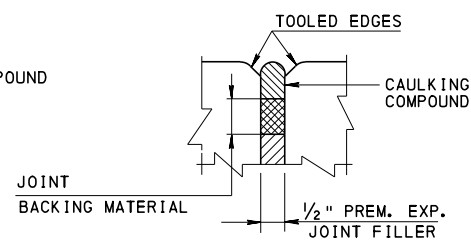
PA TYPE 10M BRIDGE BARRIER ALTERNATE JUNCTION BOX DETAIL



ELEVATION



SECTION U-U



SECTION V-V

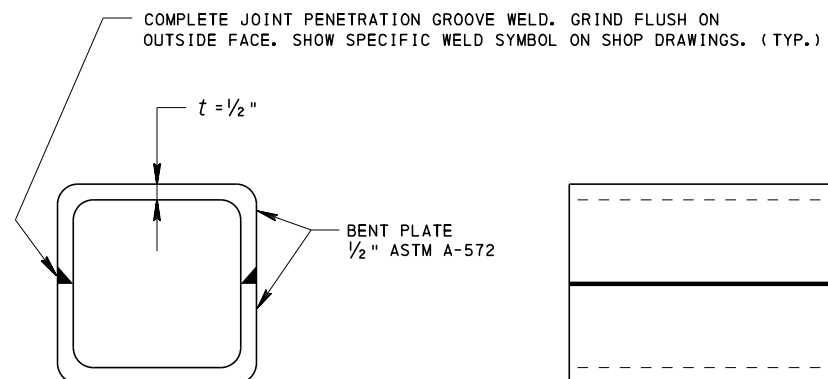
OPEN JOINT NOTES:

1. FOR LOCATION OF CONSTRUCTION JOINTS AND OPEN JOINTS, REFER TO DESIGN DRAWINGS.
2. PROVIDE CAULKING COMPOUND **CONFORMING TO PUBLICATION 408, SECTION 705.7 (b).**
3. PROVIDE JOINT BACKING MATERIAL **CONFORMING TO PUBLICATION 408, SECTION 705.8.**
4. PROVIDE PREMOLDED EXPANSION JOINT FILLER **CONFORMING TO PUBLICATION 408, SECTION 705.1.**
5. PROVIDE 2" CLEAR ON ALL REINFORCEMENT UNLESS NOTED.
6. FOR ADDITIONAL NOTES, SEE SHEET 1.

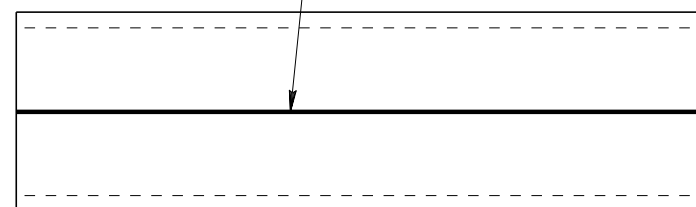
OPEN JOINT DETAIL

(RAILING POST AND TUBE NOT SHOWN)

PA TYPE 10M BRIDGE BARRIER AT OPEN JOINT



END VIEW



ELEVATION

ALTERNATE
RAIL SPLICE SLEEVE

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
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STANDARD
PA TYPE 10M BRIDGE BARRIER
MISCELLANEOUS DETAILS

RECOMMENDED FEB. 19, 2021
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RECOMMENDED FEB. 19, 2021
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SHEET 12 OF 12
BC-709M