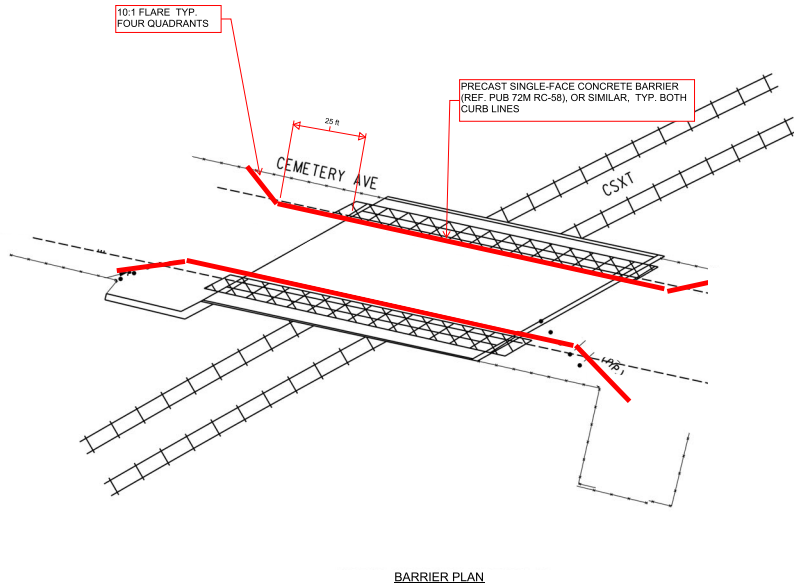


RAILING MODIFICATION DETAIL



CERTIFIED CORRECT PLANS
William A. Pe...
 Engineer
 Approved by Bureau of Technical Utility Services
PA PUBLIC UTILITY COMMISSION
 ATTEST Secretary
Matthew L. H...

AFB AXXXXX		ENGINEERING DEPARTMENT	
CSX TRANSPORTATION		PHILADELPHIA PHILADELPHIA COUNTY PA	
REVISIONS	CEMETERY AVENUE OVER CSXT AT M.P. BAK-3.60 TYPICAL SECTION		
SCALE:	PHILADELPHIA	PHILADELPHIA COUNTY	PA
DATE:	DIVISION: BALTIMORE	SUBDIVISION: PHILADELPHIA	
DESIGN:	VAL.	SEC.	DRAWING NO.
DRAWING:	XXX	XXX	BAK3.60-02
FILE:	CHECKED:		

GENERAL NOTES:

1. PROVIDE MATERIALS AND WORKMANSHIP IN ACCORDANCE WITH PUBLICATION 408 AND APPLICABLE SPECIAL PROVISIONS.
2. MATERIAL STRENGTH: REINFORCEMENT STEEL $f_y = 60$ KSI
CONCRETE FOR BARRIERS $f'_c = 3.5$ KSI
(CLASS AA CONCRETE)
3. PROVIDE STRUCTURAL STEEL CONFORMING TO AASHTO M270 GRADE 50, ASTM A 709 GRADE 50 UNLESS OTHERWISE NOTED.
4. PROVIDE 1" DIA. ASTM F 1554 GRADE 105 OR ASTM A 193 GRADE B7 (105 KSI YIELD) ANCHOR BOLT, HOT-DIPPED GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF CLASS C OF ASTM A 153 FOR ALL BOLT THROUGH ANCHORS. ADDITIONAL REQUIREMENTS FOR ASTM F 1554 AND ASTM A 193 INCLUDES ASTM F 1554 SUPPLEMENT S5 GRADE 105 CHARNY IMPACT REQUIREMENTS AT -20°F.
5. PROVIDE 1" DIA. ASTM A 193 GRADE B7 (105 KSI YIELD), HOT-DIPPED GALVANIZED ANCHOR BOLT IN ACCORDANCE WITH THE REQUIREMENTS OF CLASS C OF ASTM A 153. FOR ALL ADHESIVE ANCHORS. ADDITIONAL REQUIREMENT FOR ASTM A 193 INCLUDES ASTM F 1554 SUPPLEMENT S5 GRADE 105 CHARNY IMPACT REQUIREMENTS AT -20°F.
6. PROVIDE HEAVY HEX NUTS IN ACCORDANCE WITH PUBLICATION 408 SECTION 1105.02 (c)3.0 OR ASTM A 194 GRADE 7, SUPPLEMENT 3 AT -20°F, HOT-DIPPED GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF CLASS C OF ASTM A 153. ZINC COATING, OVERTAPPING OF THE NUT, AND LUBRICATION REQUIREMENTS SHALL BE IN ACCORDANCE WITH ASTM A 563.
7. PROVIDE 3" DIAMETER x 1/4" THICK PLATE WASHER WITH A 1 1/8" DIAMETER HOLE IN THE MIDDLE. ALL OTHER WASHERS ARE IN ACCORDANCE WITH ASTM F 436 TYPE 1. WASHERS ARE TO BE HOT-DIPPED GALVANIZED IN ACCORDANCE WITH THE REQUIREMENTS OF CLASS C OF ASTM A 153.
8. THREE TYPES OF INSTALLATION ARE ALLOWED.
 TYPE A: USE FOR SINGLE LANE(S) OF TRAFFIC PRESENT AND SPEED DOES NOT EXCEED 60 MPH.

 TYPE B: USE FOR TWO STANDARD WIDTH LANES OF TRAFFIC. IN THE SAME DIRECTION OR IN OPPOSITE DIRECTIONS, WITHOUT SHOULDERS WITH BARRIERS ON THE OUTSIDES ONLY AND THE SPEED DOES NOT EXCEED 50 MPH.

 TYPE C: USE FOR CONDITIONS OF SPEED AND/OR TRAFFIC LANES AND SHOULDERS NOT COVERED BY TYPE A AND B ABOVE.
9. SPACING OF BOLT THROUGH ANCHORS FOR BARRIERS AND FOR THE FACE(S) OF MEDIAN BARRIERS ADJACENT TO TRAFFIC:
 TYPE A INSTALLATION: SPACING = 4'-0"
 TYPE B INSTALLATION: SPACING = 4'-0"
 TYPE C INSTALLATION: SPACING = 2'-0"
10. INDICATE INSTALLATION TYPE ON THE CONTRACT DRAWINGS.
11. ANCHORS MUST BE INSTALLED IN THE END HOLES OF EACH BARRIER OR MEDIAN BARRIER SEGMENT. KEEP ANCHOR SPACING UNIFORM ALONG THE FULL LENGTH OF THE BRIDGE TO THE EXTENT POSSIBLE.
12. WHEN USING ADHESIVE ANCHORS FOR THE FACE(S) OF BARRIERS ADJACENT TO TRAFFIC, INSTALL ANCHORS TO SATISFY THE SPACING AND STRENGTH REQUIREMENTS OF TABLE 1. SPACING OF ADHESIVE ANCHORS VARIES FROM 4'-0" TO 1'-0" AS SHOWN IN THE TABLE.
13. ADHESIVE ANCHORS MAY BE USED FOR ALL INSTALLATIONS EXCEPT WHERE THE DECK HAS CONCRETE STRENGTHS LESS THAN 3000 PSI, IS IN POOR CONDITION AND/OR ADEQUATE PULL OUT CANNOT BE ACHIEVED AS PER TABLE 2 ON SHEET 2. BOLT THROUGH ANCHORS MUST BE USED IF SPECIFICALLY INDICATED ON CONTRACT DRAWINGS. BOLT THROUGH ANCHORS MUST ALSO BE USED IF THE DECK IS PENETRATED DURING THE DRILLING PROCESS.
14. ADHESIVE ANCHORS FOR TEMPORARY BARRIERS ARE PERMITTED ON BRIDGE CONSTRUCTION PROJECTS THAT EXTEND CONTINUOUSLY FOR A MAXIMUM OF THREE YEARS.
15. IDENTIFY THE PLAN LOCATION OF THE BARRIER ON THE BRIDGE DECK. POSITION BARRIER SEGMENTS TO LOGICALLY ACCOMMODATE THE ENDS OF THE STRUCTURE, EXPANSION DAMS AND OTHER OBSTACLES.
16. TRAFFIC TRANSITIONS AND LANE MERGING MUST BE OFF THE BRIDGE.
17. BOLT THROUGH ANCHORS ARE NOT PERMITTED IN RECENTLY POURED DECKS WITHOUT APPROVAL OF DISTRICT BRIDGE ENGINEER.

TABLE 1 TEMPORARY PRECAST BARRIER AND MEDIAN BARRIERS MINIMUM REQUIRED ADHESIVE ANCHOR ULTIMATE CAPACITY BASED ON CONCRETE AND BOND STRENGTH						
	BOLT SPACING					
	1'-0"		2'-0"		4'-0"	
	SHEAR (KIPS)	TENSION (KIPS)	SHEAR (KIPS)	TENSION (KIPS)	SHEAR (KIPS)	TENSION (KIPS)
TYPE A INSTALLATION *	2	4	3	7	4	11
TYPE B INSTALLATION *	3	8	6	15	9	26
TYPE C INSTALLATION *	9	28	N/A	N/A	N/A	N/A

TABLE 1 NOTES:

- * FOR CONDITIONS FOR TYPE A, B AND C INSTALLATION, SEE GENERAL NOTE 8.
- SHEAR AND TENSION VALUES ARE MINIMUM CAPACITY REQUIRED FOR AN INSTALLATION/ SPACING. IF BOTH VALUES ARE NOT MET OR EXCEEDED BY THE ANCHOR PROVIDED, A CLOSER SPACING MUST BE SELECTED.

CHANGE 2

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF PROJECT DELIVERY

STANDARD
TEMPORARY CONCRETE BARRIER,
STRUCTURE MOUNTED
GENERAL NOTES

RC-57M CONCRETE MEDIAN BARRIER
REFERENCE DRAWINGS

RECOMMENDED JAN. 31, 2019 <i>Rosa P. Marcia</i> CHIEF BRIDGE ENGINEER	RECOMMENDED JAN. 31, 2019 <i>Alvin S. Patton</i> ACTING DIR. BUREAU OF PROJECT DELIVERY	SHEET 1 OF 8 BC-719M
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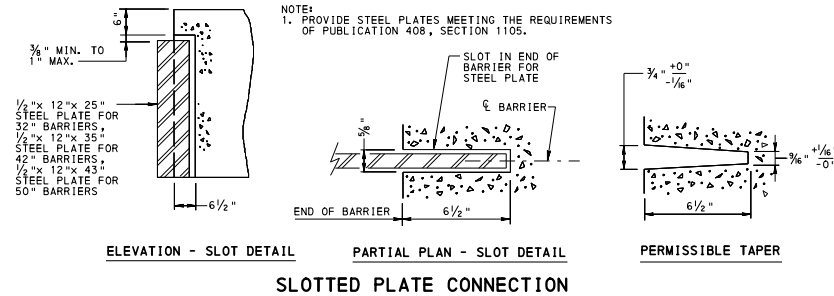
CONSTRUCTION NOTES:

1. DRILL BY MEANS WHICH WILL NOT DAMAGE THE ADJACENT CONCRETE. SUPPORT BENEATH THE DECK AS NECESSARY TO AVOID SPALLING OF CONCRETE FOR BOLT THROUGH AND ADHESIVE ANCHORS HOLES.
2. DRILL INTO THE DECK USING THE HOLES IN THE TEMPORARY BARRIER AS A TEMPLATE. THE DRILL MAY BE LOCATED ANYWHERE WITHIN THE 2" SLOT, BUT MUST BE MAINTAINED VERTICALLY ±1".
3. THE BARRIERS MAY BE REPOSITIONED TO AVOID DAMAGING THE DECK REINFORCEMENT DURING DRILLING. MOVE THE BARRIER PARALLEL TO THE DIRECTION OF TRAFFIC UP TO 2" AND PERPENDICULAR TO TRAFFIC UP TO 1" HOWEVER, A SMOOTH BARRIER FACE MUST ALWAYS BE PRESENTED TO TRAFFIC. IF BARRIERS CANNOT BE REPOSITIONED AND REBAR IS ENCOUNTERED, MOVE TO ALTERNATE BOLT POCKETS IN TYPE A AND B INSTALLATIONS. FOR EXISTING DECKS, TYPE C INSTALLATIONS WILL REQUIRE DRILLING THROUGH DECK REINFORCEMENT STEEL. ALTERNATIVELY, ONE BOLT PER BARRIER SECTION MAY BE ELIMINATED WITH APPROVAL OF THE ENGINEER. FOR NEW DECKS WITH TYPE C INSTALLATIONS, PROPERLY PLAN AND PLACE DECK REINFORCEMENT STEEL TO AVOID DAMAGE DURING DRILLING.
4. MATCH THE ENDS OF THE SEGMENTS WITH THE LOCATION OF THE EXPANSION DAMS AS CLOSELY AS POSSIBLE. BOLTING OF A SEGMENT ON EACH SIDE OF AN EXPANSION DAM IS NOT PERMITTED. FOR OTHER OBSTACLES THAT DO NOT INVOLVE MOVEMENT, SUCH AS SCUPPERS, BOLTING A SEGMENT ON EACH SIDE OF THE OBSTACLE IS PERMITTED.
5. THE END SEGMENT OF THE TEMPORARY BARRIER AT THE END OF THE BRIDGE MAY EXTEND PARTIALLY OFF THE BRIDGE. CONNECT THE END OF THE SEGMENT OFF THE BRIDGE TO THE ADJACENT SEGMENT OF THE ROADWAY BARRIER. POSITION BARRIER SEGMENTS SUCH THAT THE LARGEST POSSIBLE PORTION OF THE END SEGMENT IS PLACED ON THE BRIDGE. INSTALL ANCHORS AT THE SAME SPACING USED ON THE BRIDGE BUT NOT TO EXCEED 2'-0" IN THE SEGMENT LENGTH ON THE BRIDGE.
6. BOLTING OF THE SEGMENTS TO THE DECKS IS NOT REQUIRED IF THE WIDTH OF THE DECK BEHIND THE TEMPORARY BARRIER EXCEEDS 6'-0" OR IF AN EFFECTIVE BARRIER EXISTS BEHIND THE TEMPORARY BARRIER. REFER TO RC-57M WHEN BOLT THROUGH ANCHORS OR ADHESIVE ANCHORS ARE NOT REQUIRED.
7. TREATMENT OF ANCHOR HOLES AFTER REMOVAL OF BARRIERS:
 - FOR ADHESIVE ANCHORS MOUNTED ON NEW DECKS AND EXISTING DECKS THAT WILL NOT BE DEMOLISHED IN A LATER STAGE OF CONSTRUCTION, CORE THE ANCHORS TO COMPLETELY REMOVE THE ANCHOR AFTER THE REMOVAL OF THE TEMPORARY BARRIER AND FILL THE HOLE WITH GROUT IN ACCORDANCE WITH SECTION 1080.2 (C) OF PUB. 408.
 - FOR ADHESIVE ANCHORS INSTALLED USING A MANUFACTURERS RELEASING AGENT, THE CONTRACTOR MAY REMOVE THE ANCHOR. REDRILL THE HOLE TO REMOVE THE EPOXY USING THE SAME SIZE HOLE WHEN INSTALLING THE ADHESIVE ANCHOR.
 - FOR ADHESIVE ANCHORS MOUNTED ON EXISTING DECKS THAT WILL BE DEMOLISHED IN A LATER STAGE OF CONSTRUCTION, CUT THE PROJECTION OF THE ANCHOR ABOVE THE DECK AND GRIND SMOOTH AND FLUSH WITH THE TOP SURFACE OF THE DECK IMMEDIATELY AFTER TEMPORARY BARRIER REMOVAL.
 - FOR BOLT THROUGH ANCHORS MOUNTED ON NEW DECKS OR MOUNTED ON EXISTING DECKS THAT WILL BE REOPENED TO TRAFFIC AFTER TEMPORARY BARRIER REMOVAL, FILL THE HOLES WITH POLYMER MORTAR AND CONCRETE AS PER BULLETIN 15, SECTION 679.21 (e), PART C, AFTER THE REMOVAL OF THE TEMPORARY BARRIER.
8. THE MINIMUM DECK WIDTH BEHIND A BARRIER OR A MEDIAN BARRIER MOUNTED SUCH THAT TRAFFIC EXISTS ALONG ONE FACE IS 2" FOR DECKS WITHOUT OVERLAYS AND 12" FOR DECKS WITH AN OVERLAY. ADDITIONAL OFFSET MAY BE IDENTIFIED ON THE CONTRACT DRAWINGS, IF PRACTICAL, TO ALLOW CONTRACTOR ACCESS FOR PARTIAL WIDTH CONSTRUCTION.
9. ANCHORS ARE REQUIRED FOR TRAFFIC SIDE ONLY.
10. FIELD TEST LOADING VALUES ARE 85% OF THE ADHESIVE ANCHOR TENSILE CAPACITY.

	BOLT SPACING		
	1'-0"	2'-0"	4'-0"
	TENSION (KIPS)	TENSION (KIPS)	TENSION (KIPS)
TYPE A INSTALLATION *	3	6	9
TYPE B INSTALLATION *	7	13	22
TYPE C INSTALLATION *	24	N/A	N/A

TABLE 2 NOTE:

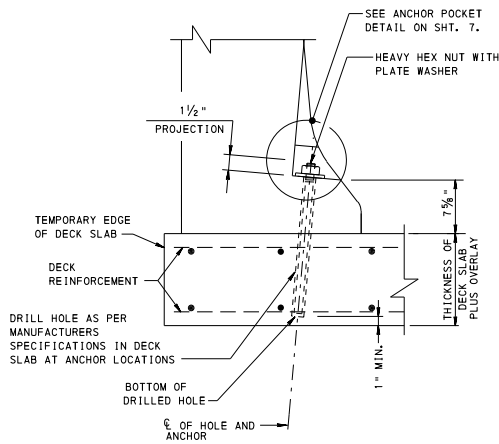
* FOR CONDITIONS FOR TYPE A, B AND C INSTALLATION, SEE SHT. 1, GENERAL NOTE 8.



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF PROJECT DELIVERY

STANDARD
TEMPORARY CONCRETE BARRIER,
STRUCTURE MOUNTED
CONSTRUCTION NOTES AND
SLOTTED PLATE CONNECTION

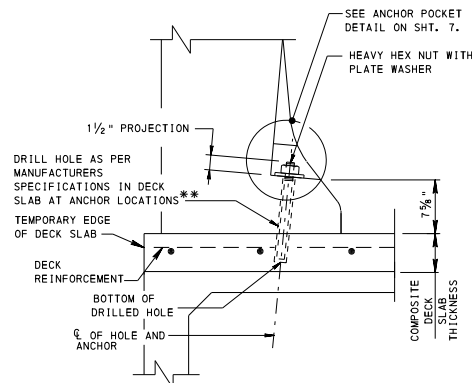
RECOMMENDED JAN. 31, 2019 <i>Rosa P. Marcia</i> CHIEF BRIDGE ENGINEER	RECOMMENDED JAN. 31, 2019 <i>Alvin S. Stetson</i> ACTING DIR. BUREAU OF PROJECT DELIVERY	SHEET 2 OF 8 BC-719M
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ADHESIVE ANCHOR

(CONCRETE TEMPORARY BARRIER SHOWN)
TEMPORARY MEDIAN BARRIER SIMILAR AT FACE(S) ADJACENT TO TRAFFIC)

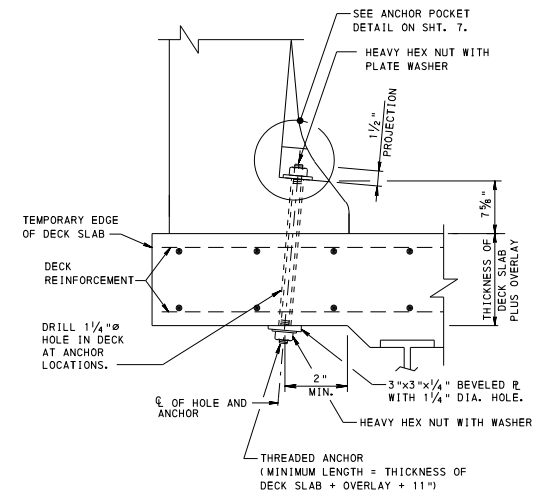
NOTE:
SEE TABLE 1, SHEET 1 FOR SPACING AND MINIMUM REQUIRED ADHESIVE ANCHOR ULTIMATE CAPACITY



ADHESIVE ANCHOR ON COMPOSITE ADJACENT BOX BEAMS

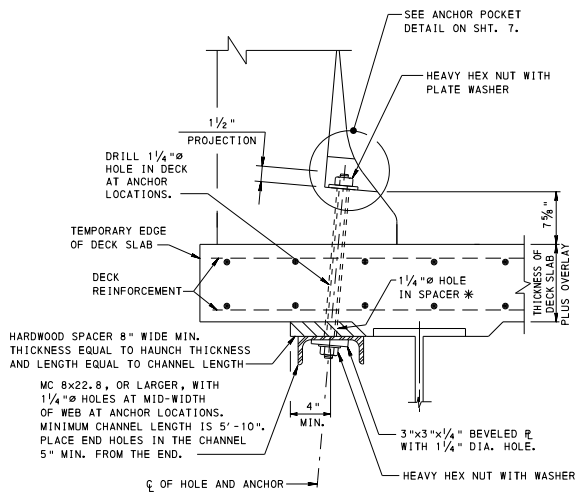
(CONCRETE TEMPORARY BARRIER SHOWN)
TEMPORARY MEDIAN BARRIER SIMILAR AT EITHER FACE)

NOTE:
SEE TABLE 1, SHEET 1 FOR SPACING AND MINIMUM REQUIRED ADHESIVE ANCHOR ULTIMATE CAPACITY



TYPICAL BOLT THROUGH ANCHOR

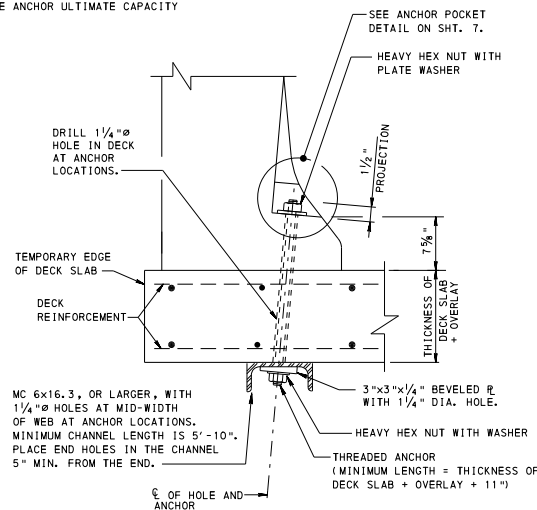
(CONCRETE TEMPORARY BARRIER SHOWN)
TEMPORARY MEDIAN BARRIER SIMILAR AT FACE(S) ADJACENT TO TRAFFIC)



ALTERNATE CONNECTION DETAIL WITH SPACER FOR HAUNCH CLEARANCE LESS THAN 2"

(CONCRETE TEMPORARY BARRIER SHOWN)
TEMPORARY MEDIAN BARRIER SIMILAR AT FACE NEAR HAUNCH)

*THE ENTIRE CIRCUMFERENCE OF THE HOLE IN THE HARDWOOD SPACER MUST BE 1/2" MIN. FROM THE EDGES OF THE SPACER.



ALTERNATE BOLT THROUGH ANCHOR

(CONCRETE TEMPORARY BARRIER SHOWN)
TEMPORARY MEDIAN BARRIER SIMILAR AT FACE(S) ADJACENT TO TRAFFIC)

NOTE: USE THE ALTERNATE BOLT THROUGH ANCHOR INSTALLATION FOR DECKS WITH METAL DECK PANS AND WHEN THE EXISTING DECK IS DETERIORATED OR THE ALTERNATE INSTALLATION IS REQUIRED BY THE DISTRICT BRIDGE ENGINEER

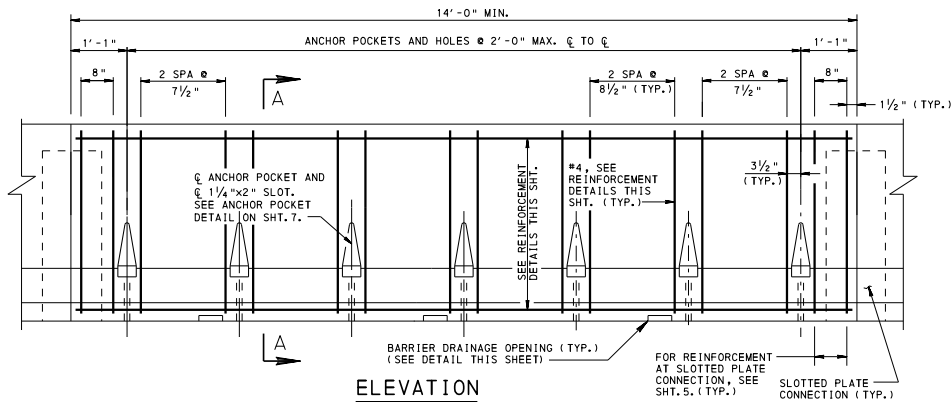
NOTES:

1. FOR GENERAL NOTES, SEE SHEET 1.
2. FOR CONSTRUCTION NOTES, SEE SHEET 2.
3. FOR SPACING AND MINIMUM REQUIRED ADHESIVE ANCHOR ULTIMATE CAPACITY SEE TABLE 1, SHEET 1.

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

**STANDARD
TEMPORARY CONCRETE BARRIER
STRUCTURE MOUNTED
ADHESIVE AND BOLT THROUGH
ANCHOR DETAILS**

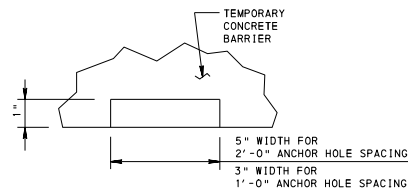
RECOMMENDED JAN. 31, 2019 <i>Rosa P. Macieja</i> CHIEF BRIDGE ENGINEER	RECOMMENDED JAN. 31, 2019 <i>Alan S. Stetson</i> ACTING DIR. BUREAU OF PROJECT DELIVERY	SHEET 3 OF 8 BC-719M
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TRAFFIC FACE OF TYPICAL TEMPORARY CONCRETE BARRIER AND BOTH FACES OF TYPICAL TEMPORARY CONCRETE MEDIAN BARRIER

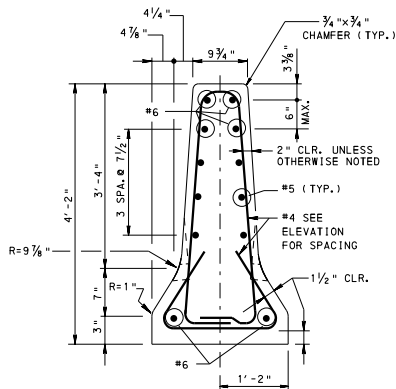
CONCRETE MEDIAN BARRIER

USE FOR INSTALLATIONS REQUIRING 4'-0" OR 2'-0" ANCHOR BOLT SPACING

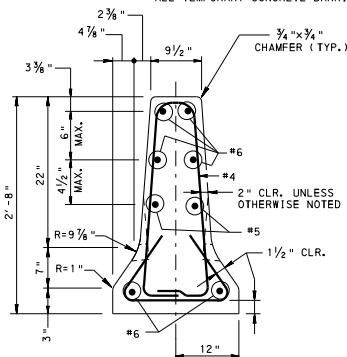


BARRIER DRAINAGE OPENING DETAIL

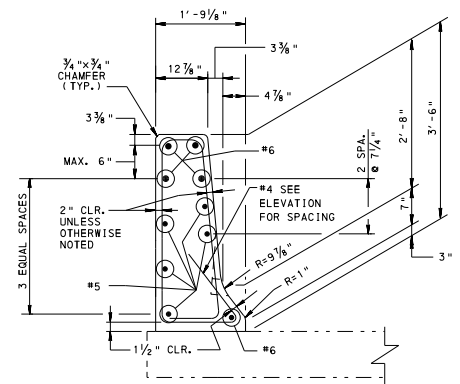
NOTE: USE BARRIER DRAINAGE OPENINGS FOR ALL TEMPORARY CONCRETE BARRIERS.



TEMPORARY GLARE SCREEN MEDIAN BARRIER 50" TYPICAL REINFORCEMENT DETAIL



TEMPORARY MEDIAN BARRIER 32" TYPICAL REINFORCEMENT DETAIL



TEMPORARY BARRIER 42" TYPICAL REINFORCEMENT DETAIL

SECTION A-A

NOTES:

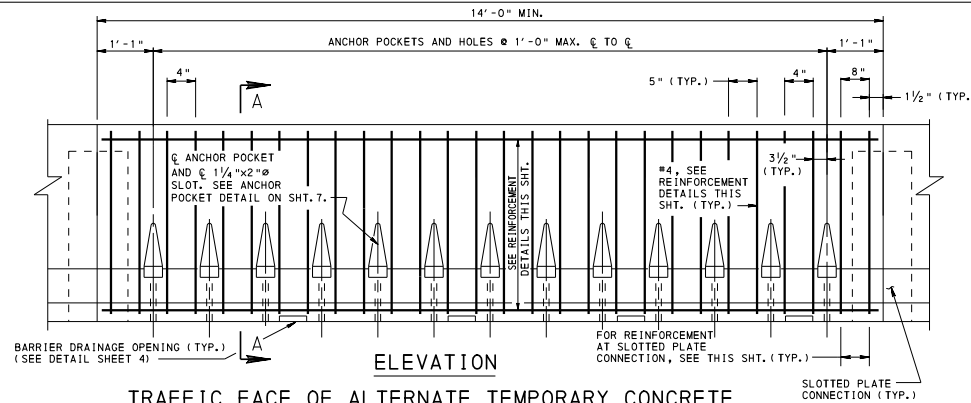
1. FOR GENERAL NOTES, SEE SHEET 1.
2. FOR CONSTRUCTION NOTES, SEE SHEET 2.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF PROJECT DELIVERY

STANDARD
TEMPORARY CONCRETE BARRIER,
STRUCTURE MOUNTED
REINFORCEMENT DETAILS

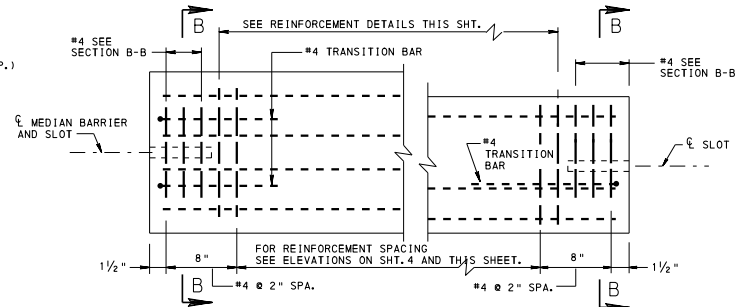
RECOMMENDED JAN. 31, 2019 <i>Rosa P. Marcia</i> CHIEF BRIDGE ENGINEER	RECOMMENDED JAN. 31, 2019 <i>Alvin S. Stetson</i> ACTING DIR. BUREAU OF PROJECT DELIVERY	SHEET 4 OF 8 BC-719M
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SECTION A-A



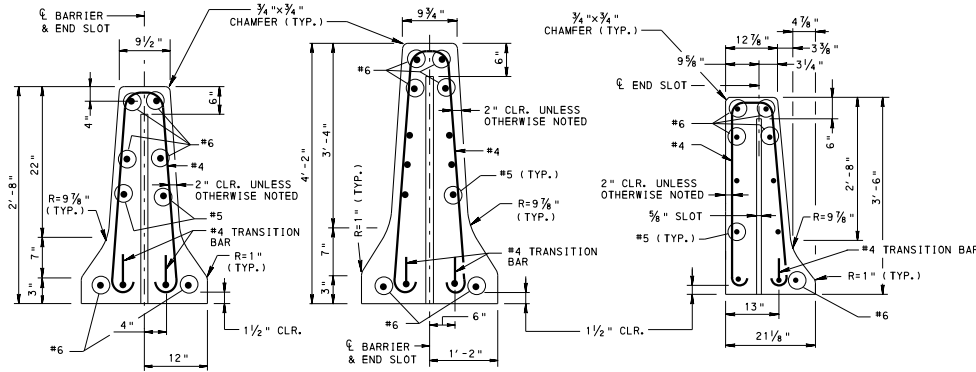
ELEVATION
TRAFFIC FACE OF ALTERNATE TEMPORARY CONCRETE BARRIER AND BOTH FACES OF TYPICAL TEMPORARY CONCRETE MEDIAN BARRIER

USE FOR INSTALLATIONS REQUIRING 1'-0", 2'-0" OR 4'-0" ANCHOR BOLT SPACING



TEMPORARY MEDIAN BARRIER - PLAN
 BOTH ENDS OF BARRIER ARE TYPICAL

TEMPORARY BARRIER - PLAN
 BOTH ENDS OF BARRIER ARE TYPICAL



ALTERNATE TEMPORARY MEDIAN BARRIER 32"

TEMPORARY GLARE SCREEN MEDIAN BARRIER 50"

TEMPORARY BARRIER 42"

SECTION B-B

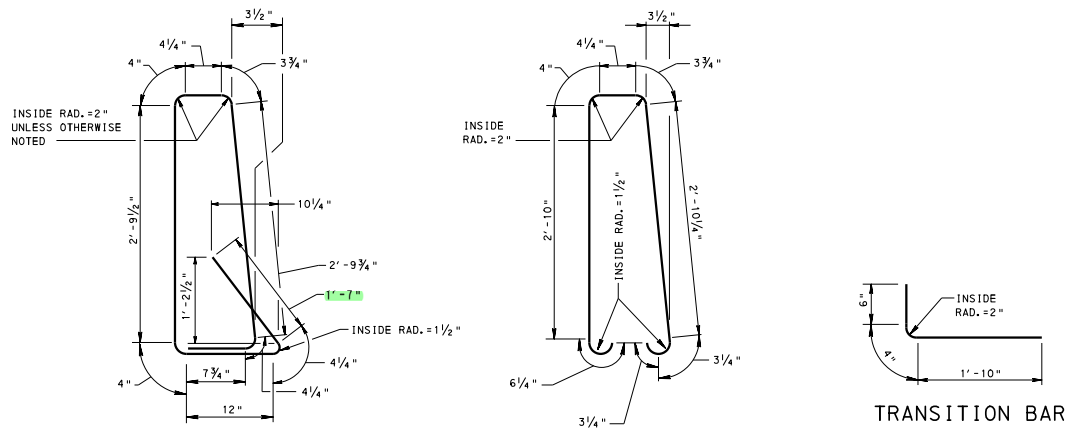
NOTES:

1. FOR GENERAL NOTES, SEE SHEET 1.
2. FOR CONSTRUCTION NOTES, SEE SHEET 2.
3. FOR SECTION A-A, SEE SHEET 4.

COMMONWEALTH OF PENNSYLVANIA
 DEPARTMENT OF TRANSPORTATION
 BUREAU OF PROJECT DELIVERY

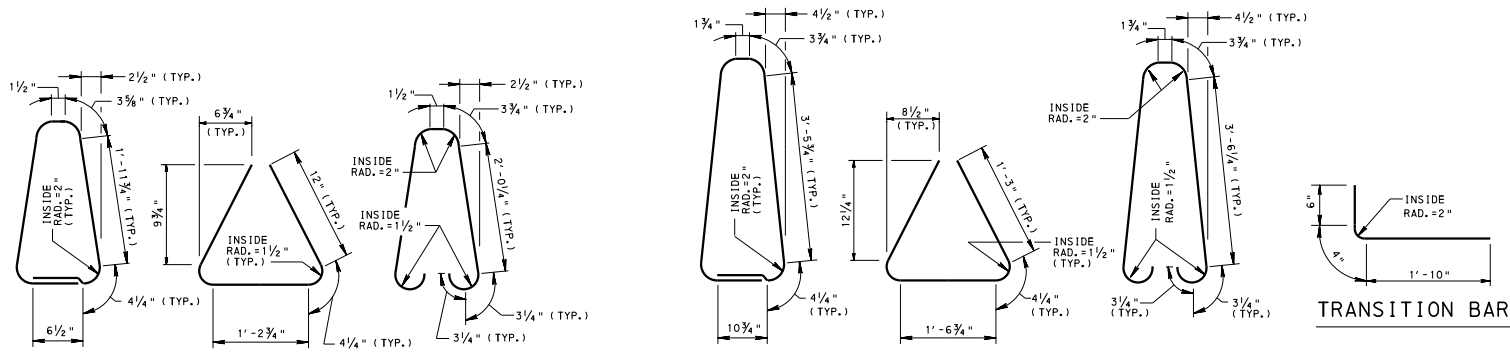
STANDARD
 TEMPORARY CONCRETE BARRIER,
 STRUCTURE MOUNTED
 END SECTION DETAILS AND
 REINFORCEMENT DETAILS

RECOMMENDED JAN. 31, 2019 <i>Rosa P. MacCione</i> CHIEF BRIDGE ENGINEER	RECOMMENDED JAN. 31, 2019 <i>Allen S. Stetson</i> ACTING DIR. BUREAU OF PROJECT DELIVERY	SHEET 5 OF 8 BC-719M
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**TEMPORARY BARRIER
TYPICAL REINFORCEMENT BARS**

TRANSITION BAR



MEDIAN BARRIER 32"

GLARE SCREEN MEDIAN BARRIER 50"

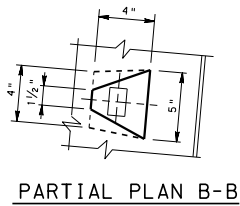
TRANSITION BAR

**TEMPORARY MEDIAN BARRIER
TYPICAL REINFORCEMENT BARS**

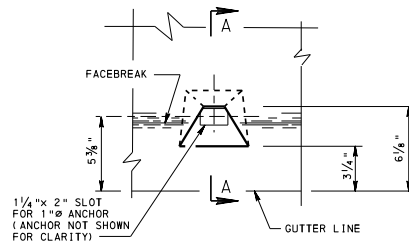
COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF PROJECT DELIVERY

STANDARD
TEMPORARY CONCRETE BARRIER,
STRUCTURE MOUNTED
BAR BENDING DIAGRAMS

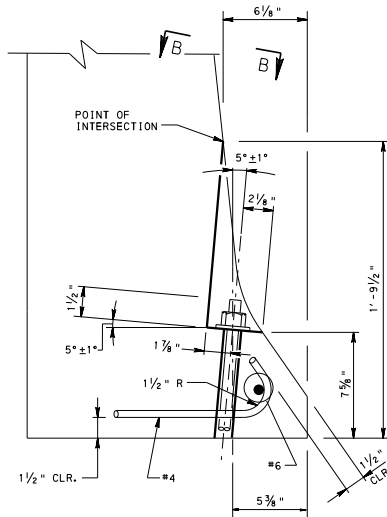
RECOMMENDED JAN. 31, 2019 <i>Rosa P. Marcia</i> CHIEF BRIDGE ENGINEER	RECOMMENDED JAN. 31, 2019 <i>Alvin S. Hester</i> ACTING DIR. BUREAU OF PROJECT DELIVERY	SHEET 6 OF 8 BC-719M
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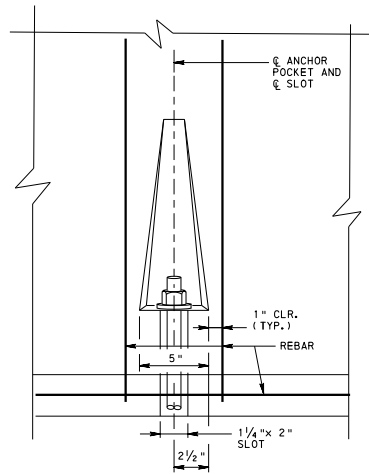
PARTIAL PLAN B-B



PLAN

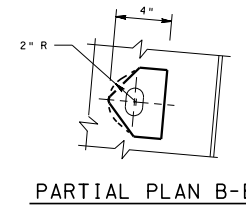


BARRIER SECTION A-A

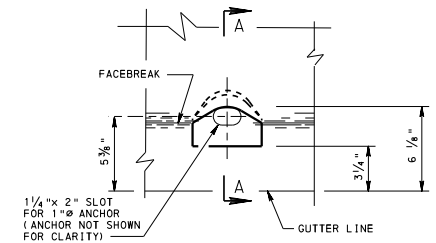


BARRIER ELEVATION

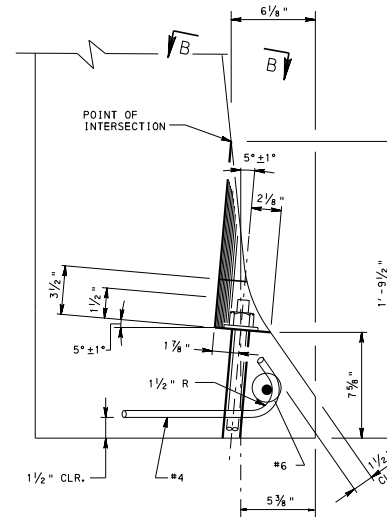
ALTERNATE ANCHOR POCKET DETAIL



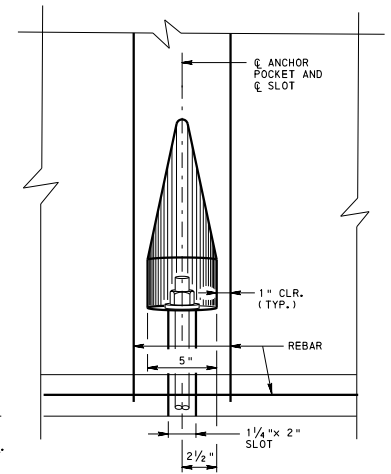
PARTIAL PLAN B-B



PLAN



BARRIER SECTION A-A



BARRIER ELEVATION

ANCHOR POCKET DETAIL

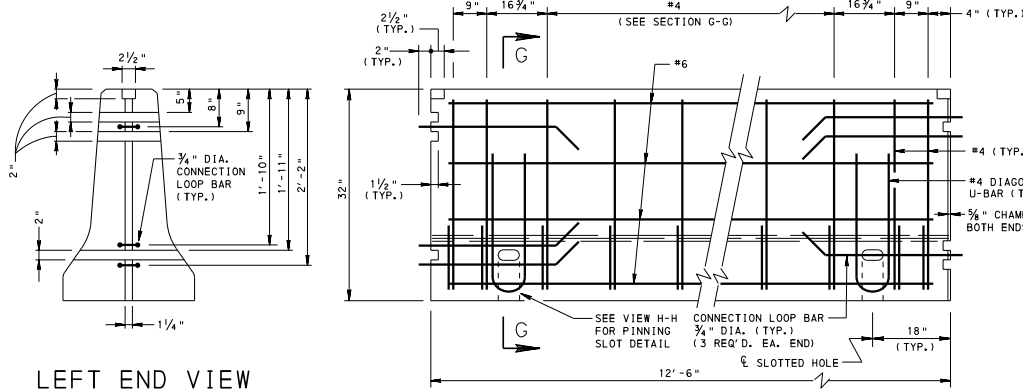
NOTES:

1. FOR GENERAL NOTES, SEE SHEET 1.
2. FOR CONSTRUCTION NOTES, SEE SHEET 2.
3. FOR LOCATION OF ANCHOR POCKET, SEE SHEETS 4 AND 5.

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

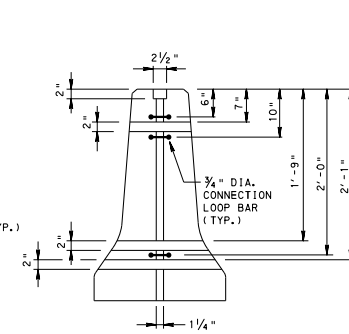
**STANDARD
TEMPORARY CONCRETE BARRIER,
STRUCTURE MOUNTED
ANCHOR POCKET DETAILS**

RECOMMENDED <i>Rosa P. Marcia</i> CHIEF BRIDGE ENGINEER	JAN. 31, 2019	RECOMMENDED <i>Alvin S. Patton</i> ACTING DIR. BUREAU OF PROJECT DELIVERY	JAN. 31, 2019	SHEET 7 OF 8 BC-719M
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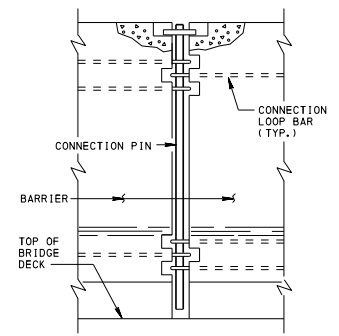


LEFT END VIEW

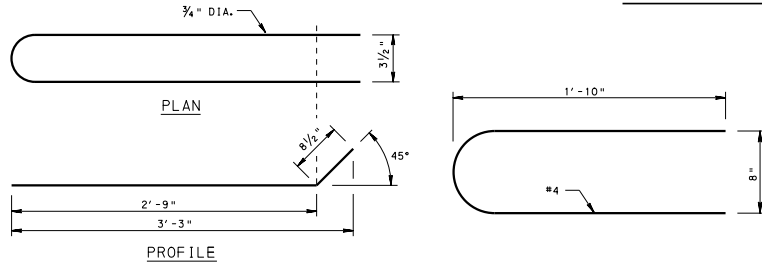
ELEVATION



RIGHT END VIEW



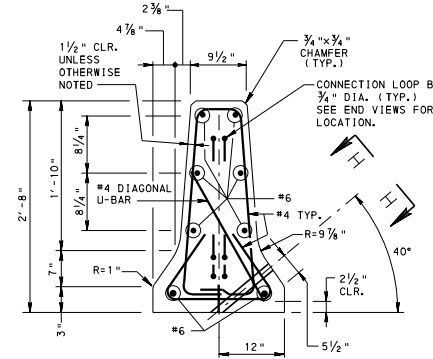
CONNECTION DETAIL



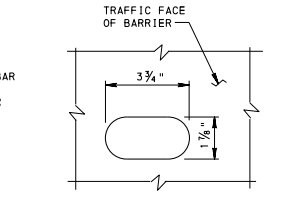
CONNECTION LOOP BAR

DIAGONAL U-BAR

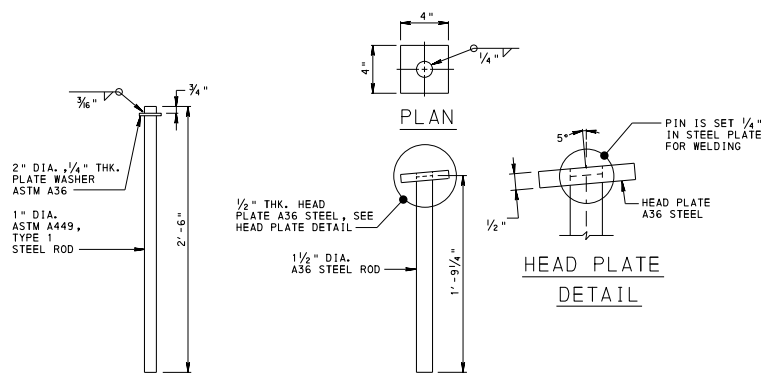
REINFORCEMENT BAR DETAILS



SECTION G-G

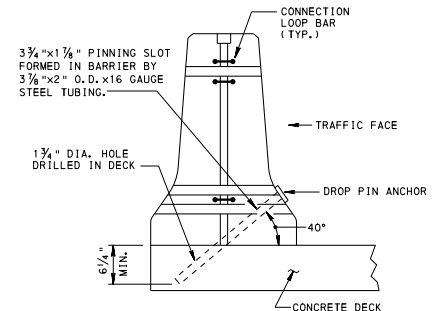


VIEW H-H PINNING SLOT DETAIL



CONNECTION PIN DETAIL

DROP-PIN ANCHOR DETAIL



DECK SECTION

NOTE:
PIN CONNECTED DROP PIN ANCHOR BARRIER HAS BEEN SUCCESSFULLY TESTED FOR TL-3 TEMPORARY BARRIER AS PER NCHRP 350.

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF TRANSPORTATION
BUREAU OF PROJECT DELIVERY

STANDARD
TEMPORARY CONCRETE BARRIER,
STRUCTURE MOUNTED
PIN CONNECTED DROP-PIN
ANCHOR BARRIER SYSTEM

RECOMMENDED JAN. 31, 2019 <i>Rosa P. Macchia</i> CHIEF BRIDGE ENGINEER	RECOMMENDED JAN. 31, 2019 <i>Alvin S. Stetson</i> ACTING DIR. BUREAU OF PROJECT DELIVERY	SHEET 8 OF 8 BC-719M
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