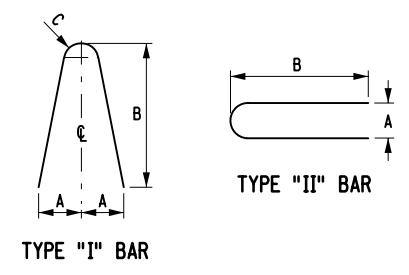
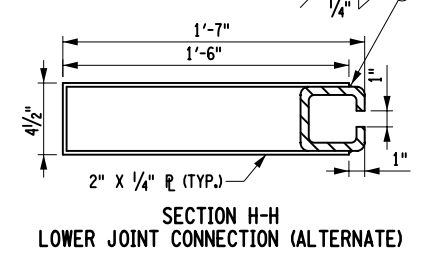
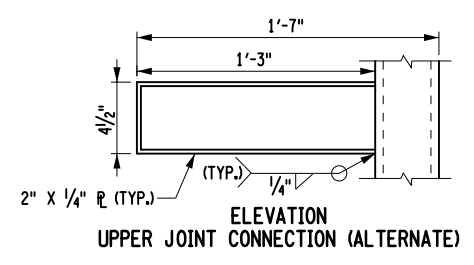
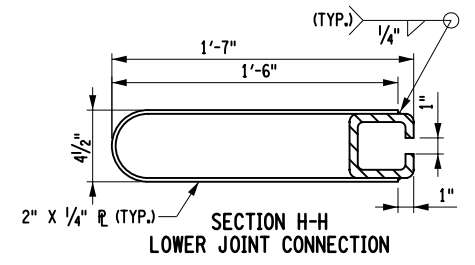
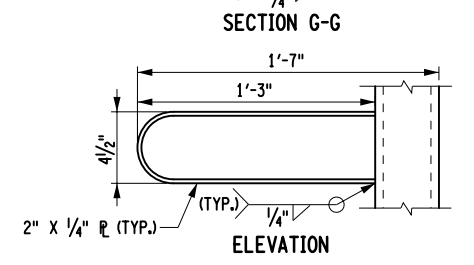
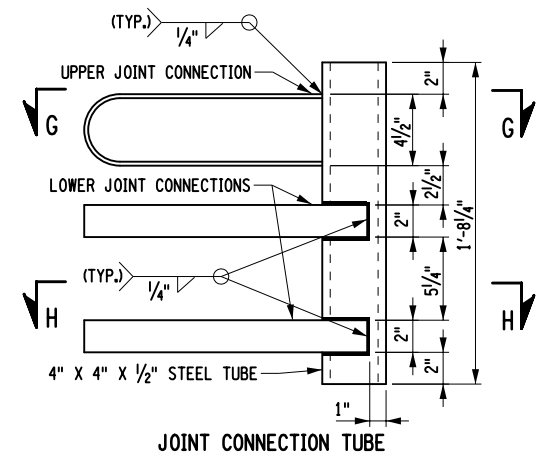


TRANSITION SECTIONS



TAPERED END SECTION BAR LIST								
MARK	SIZE	NUMBER PER SECTION	LENGTH	TYPE	A	B	C	LOCATION
4B1	13	3	4'-11"	I	5"	28"	1"	STIRRUPS
4B2	13	1	3'-3"	I	5"	18"	1"	STIRRUPS
4B3	13	1	1'-8"	I	5"	8"	1"	STIRRUPS
4B4	13	9	3'-1"	II	4"	15 1/2"		HOOPS
6B4	19	1	1'-2"	STR.				
6B5	19	1	6"	STR.				
6B6	19	2	16'-7"	STR.				TRANSVERSE (TOP)
6B7	19	2	18'-2"	STR.				TRANSVERSE (BOTTOM)



- NOTES:
- TEMPORARY CONCRETE BARRIER SHALL BE PRECAST IN ACCORDANCE WITH THE REQUIREMENTS OF §704-05, PRECAST CONCRETE BARRIER.
 - STEEL PLATE SHALL BE ASTM A36M, A572M, GRADE 345, TUBE STEEL SHALL BE ASTM A500 GRADE B OR C, AND REINFORCING BARS SHALL BE A615 GRADE 420.
 - ALL WELDING SHALL BE PERFORMED BY A QUALIFIED WELDER IN ACCORDANCE WITH SECTION 8 OF THE NYS STEEL CONSTRUCTION MANUAL.
 - SURFACES TO BE WELDED SHALL BE FREE OF SLAG, RUST, MOISTURE, GREASE OR ANY OTHER MATERIAL THAT WILL PREVENT PROPER WELDING OR PRODUCE OBJECTIONABLE FUMES.
 - WELDING SHALL BE SHIELDED METAL ARC WELDING USING PROPERLY DRIED 5/32" E7018 ELECTRODES CONFORMING TO THE REQUIREMENTS OF SECTION 7 OF THE NYS STEEL CONSTRUCTION MANUAL.
 - CONCRETE CLEAR COVER FOR REINFORCING BARS SHALL BE 1/2" (MIN.) EXCEPT WHERE OTHERWISE SPECIFIED.
 - A MINIMUM OF (2) TWO RECESSED LIFTING DEVICES, WITH THE CAPACITY TO LIFT A MASS OF 6 TONS (MINIMUM) SHALL BE INSTALLED ON EACH SEGMENT.
 - 1" ASTM A36M ANCHOR PINS SHALL BE PLACED IN FOUR RECESSES OF EACH SEGMENT TO BE PINNED.
 - CONNECTION KEY COVER PLATE SHALL BE INSTALLED FLUSH WITH THE BARRIER TOP.
 - THE DETAILS SHOWN FOR THE END SECTIONS ON THIS SHEET ARE FOR APPROACH ENDS WHICH ARE TO BE LOCATED TO THE LEFT OF THE TRAFFIC FLOW ON ONE-WAY OPERATIONS OR BETWEEN OPPOSING FLOWS OF TRAFFIC ON TWO-WAY OPERATIONS. WHEN AN APPROACH END IS TO BE LOCATED TO THE RIGHT OF THE TRAFFIC FLOW, THE END SEGMENT SHALL BE CONSTRUCTED SO THAT IT IS OPPOSITE-HAND (REVERSED IN ALL CONFIGURATIONS, ANCHOR HOLE LOCATIONS AND REINFORCEMENT).
 - ALL CORNERS ON THE TOP OF THE SEGMENT SHALL BE ROUNDED TO A 1" RADIUS. THE SEGMENT SHALL HAVE A SMOOTH TRANSITION TO A 6" END-OF-SECTION HEIGHT. ALL END SECTIONS SHALL BE PINNED UNLESS OTHERWISE NOTED.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

U.S. CUSTOMARY STANDARD SHEET

TEMPORARY CONCRETE BARRIER
(SHEET 2 OF 3)

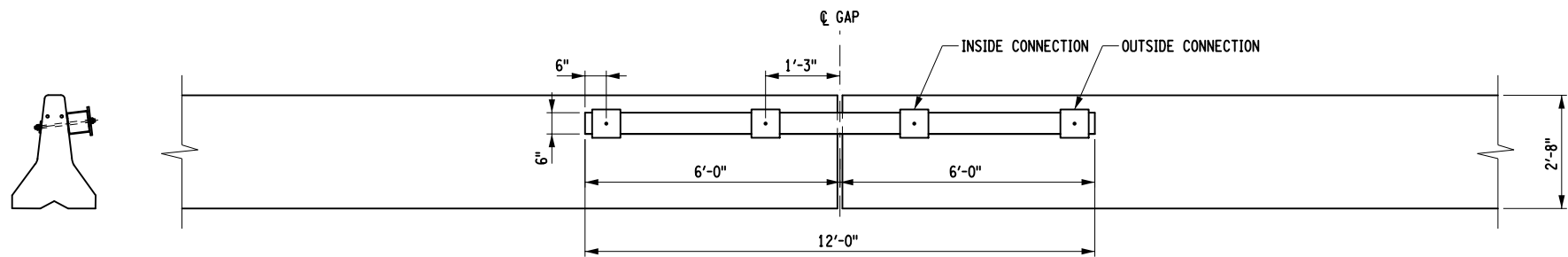
APPROVED SEPTEMBER 30, 2009 ISSUED UNDER EB 09-025

/S/ J. F. TYNAN, P.E.
DEPUTY CHIEF ENGINEER
(CONSTRUCTION)

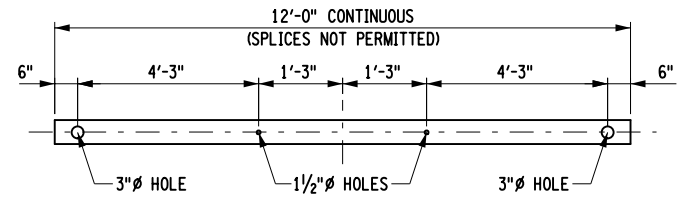
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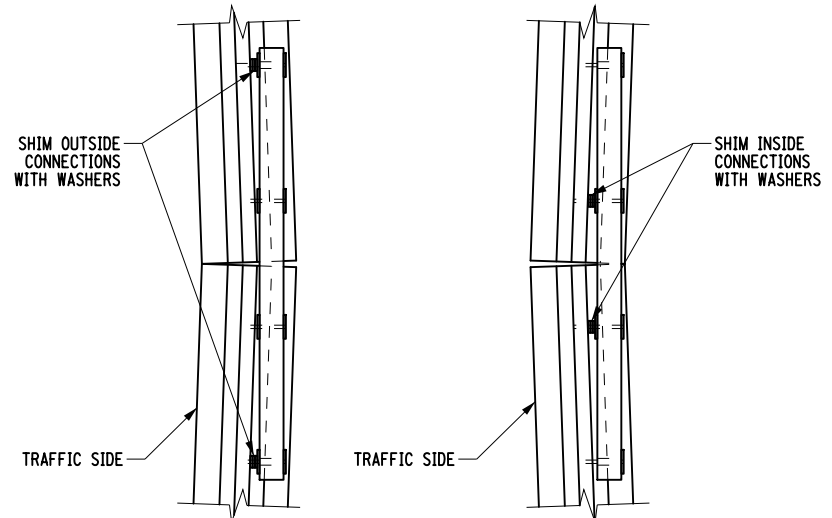
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SIDE VIEW
(CONSTRUCTION SIDE)

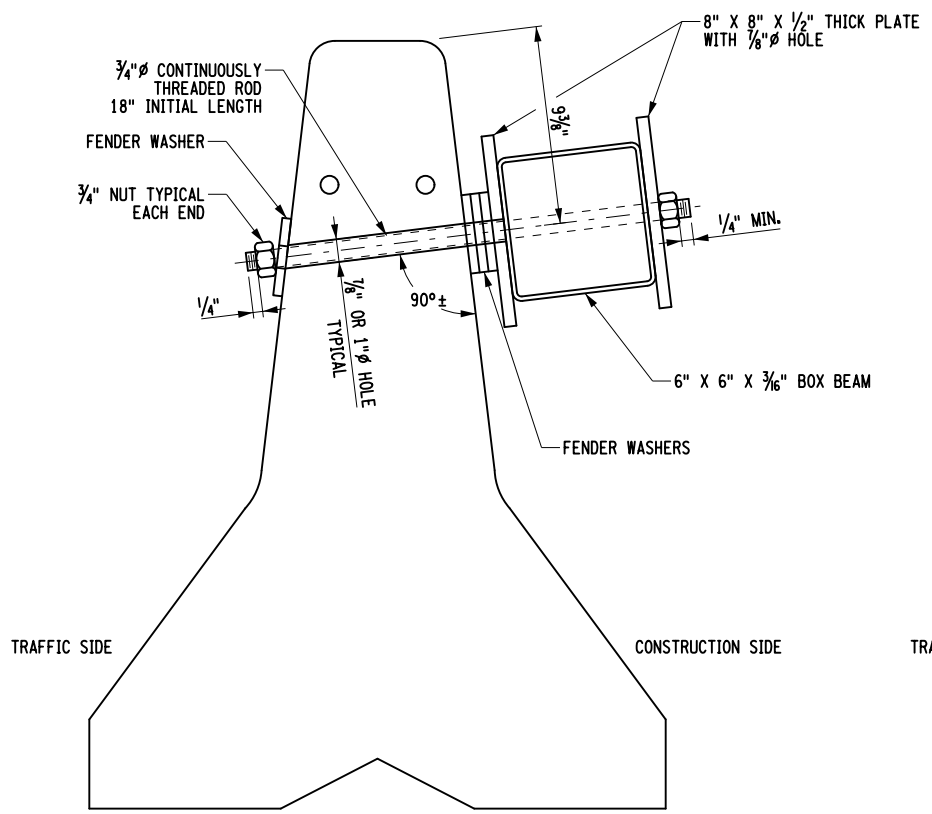


BOX BEAM GUIDE RAIL
HOLE LAYOUT DETAIL

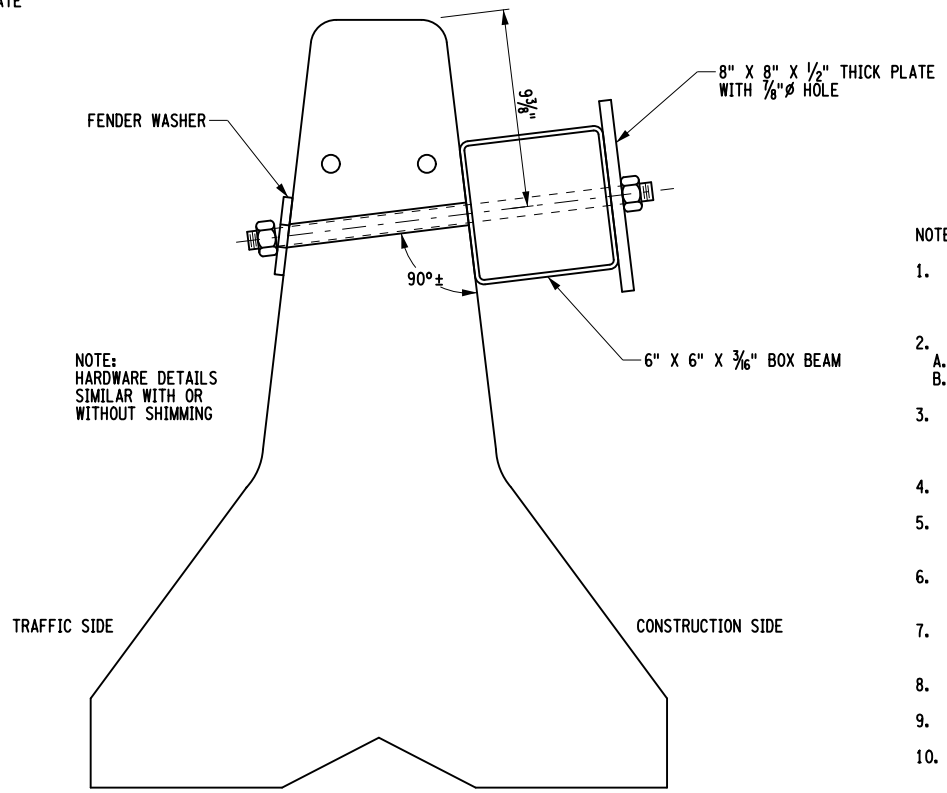


PLAN VIEW
TCB CURVING
TOWARD TRAFFIC

PLAN VIEW
TCB CURVING
AWAY FROM TRAFFIC



SECTION WITH SHIMMING



SECTION WITHOUT SHIMMING

NOTE:
HARDWARE DETAILS
SIMILAR WITH OR
WITHOUT SHIMMING

BOX BEAM STIFFENING OF TEMPORARY CONCRETE BARRIER

NOTES:

1. TEMPORARY CONCRETE BARRIER (TCB) SHALL BE PRECAST IN ACCORDANCE WITH THE REQUIREMENTS OF §704-05 PRECAST CONCRETE BARRIER AND STANDARD SHEET TITLED "TEMPORARY CONCRETE BARRIER - SHEET 1 OF 3" AND "TEMPORARY CONCRETE BARRIER - SHEET 2 OF 3".
2. BOX BEAM SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF §710-21, BOX BEAM RAILING AND MEDIAN BARRIER, RAILS.
 - A. HOWEVER, THE BOX BEAM NEED NOT BE NEW.
 - B. THE GALVANIZING REMAINING ON THE OLD PIECES SHALL BE SUFFICIENT TO ENSURE THE STEEL IS STRUCTURALLY INTACT.
3. TCB WITH BOX BEAM STIFFENER SHALL BEGIN AT LEAST 50'-0" PRIOR TO, BE CONTINUOUS THROUGH AND EXTEND AT LEAST 50'-0" BEYOND THE AREA REQUIRING LIMITED DEFLECTIONS. WHERE SPACE LIMITS SUCH EXTENSIONS, THE FIRST/LAST TCB SEGMENT SHOULD BE PINNED WITH 4 PINS ON THE CONSTRUCTION SIDE.
4. TEMPORARY CONCRETE BARRIER WITH BOX BEAM STIFFENER MAY ONLY BE USED WITH TCB SEGMENTS 14'-0" OR LONGER.
5. TEMPORARY CONCRETE BARRIER MAY ONLY BE INSTALLED TO THE FOLLOWING MINIMUM RADII: 14'-0" SEGMENT - 161'-0" RADIUS, 16'-0" SEGMENT - 184'-0" RADIUS, 18'-0" SEGMENT - 207'-0" RADIUS, AND 20'-0" SEGMENT - 230'-0" RADIUS.
6. WHERE TEMPORARY CONCRETE BARRIERS ARE PLACED ON A RADIUS, THE RESULTING GAPS BETWEEN THE BOX BEAM AND CONCRETE BARRIER SHALL BE SHIMMED.
7. THE SHIMMING SHALL CONSIST OF 8" X 8" X 1/2" SQUARE PLATE, AND FENDER WASHERS AS NEEDED TO SNUG THE BOX BEAM STIFFENER TO THE TCB.
8. FENDER WASHERS SHALL BE 3" NOMINAL O.D.
9. HARDWARE OTHER THAN THE BOX BEAM NEED NOT BE GALVANIZED.
10. THE PRESENCE OF NORMAL HOLES DRILLED PER THIS SHEET WILL NOT AFFECT THE REUSABILITY OF THE CONCRETE SEGMENTS.

	STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION
	U.S. CUSTOMARY STANDARD SHEET
TEMPORARY CONCRETE BARRIER (SHEET 3 OF 3)	
APPROVED SEPTEMBER 1, 2010	ISSUED UNDER EB 10-034
/S/ J.F. TYNAN, P.E. DEPUTY CHIEF ENGINEER (CONSTRUCTION)	619-01

EFFECTIVE DATE: 01/06/11

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