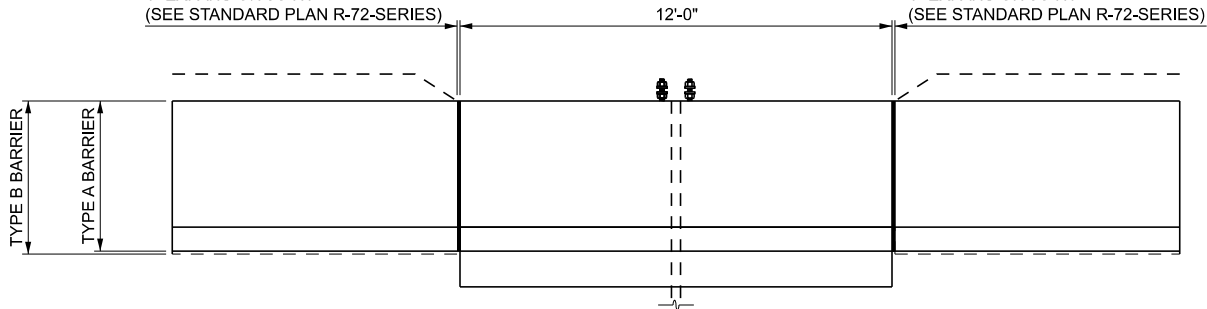
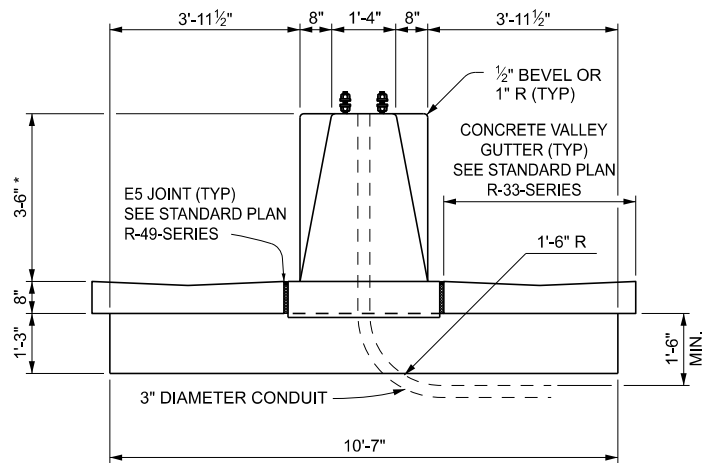
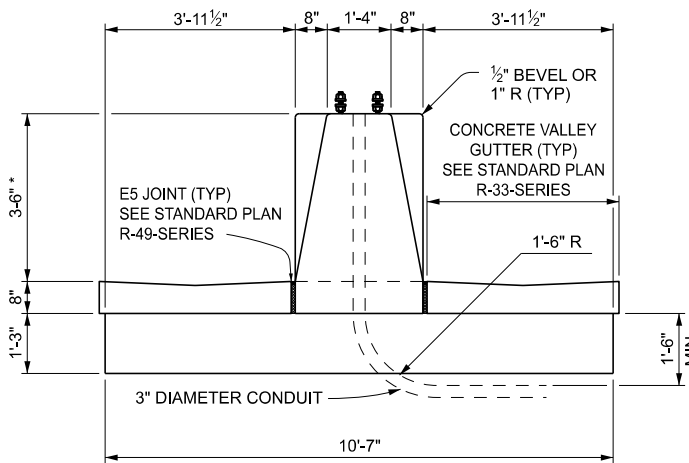


WHERE CONCRETE GLARE SCREEN IS SPECIFIED ON THE PLANS, END THE GLARE SCREEN AT THE 1" EXPANSION JOINT (SEE STANDARD PLAN R-72-SERIES)

WHERE CONCRETE GLARE SCREEN IS SPECIFIED ON THE PLANS, END THE GLARE SCREEN AT THE 1" EXPANSION JOINT (SEE STANDARD PLAN R-72-SERIES)



\* SEE VARIABLE CROSS-SECTION ON SHEET 6 WHEN THERE IS A DIFFERENCE IN ELEVATION OF GUTTER ON EACH SIDE OF BARRIER



APPROVED BY: \_\_\_\_\_  
DIRECTOR, BUREAU OF FIELD SERVICES

APPROVED BY: \_\_\_\_\_  
DIRECTOR, BUREAU OF DEVELOPMENT



DEPARTMENT DIRECTOR  
BRADLEY C. WIEFERICH, PE

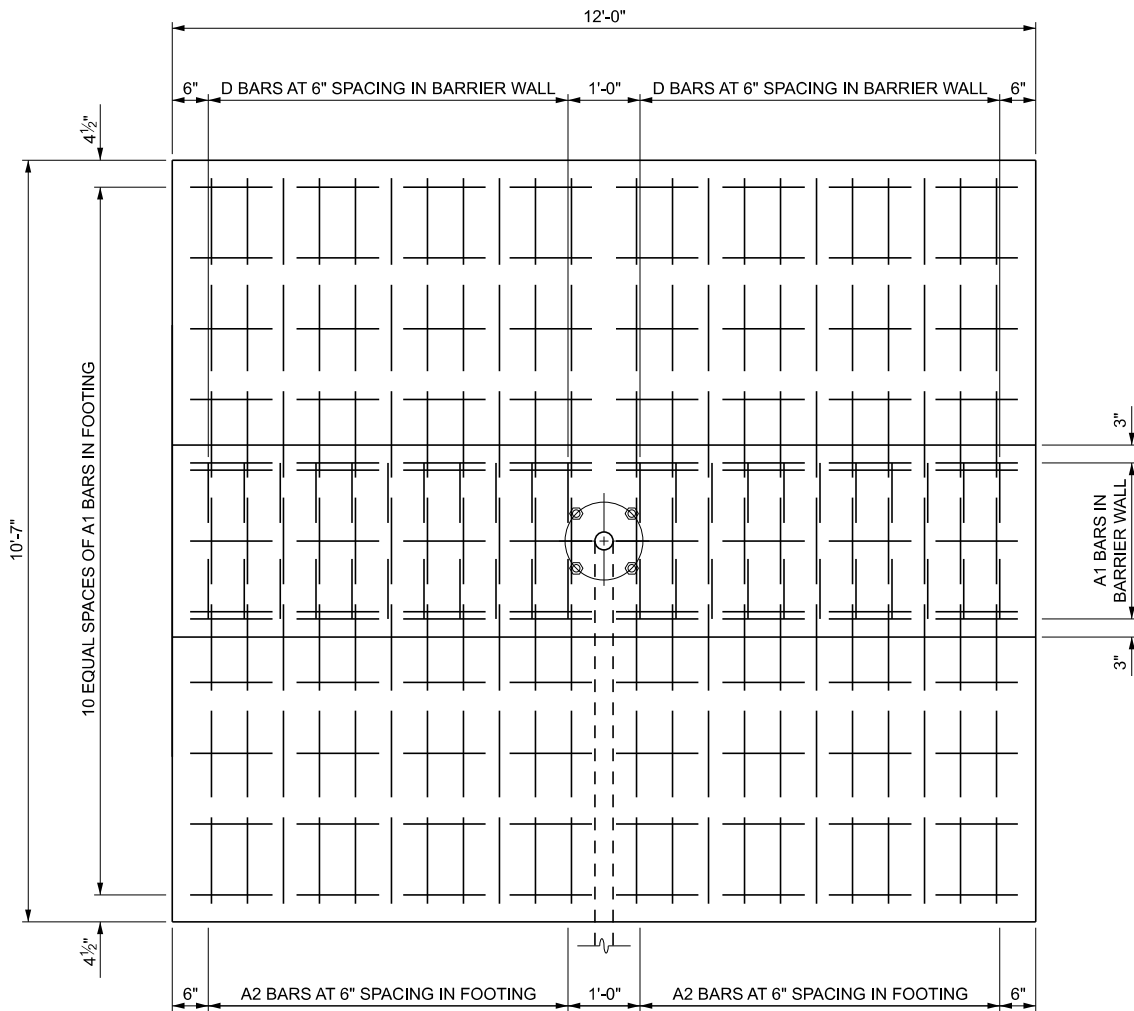
STANDARD PLAN FOR  
LIGHT STANDARD FOUNDATION  
(CONCRETE BARRIER, DOUBLE FACE)

(SPECIAL DETAIL)  
FHWA APPROVAL

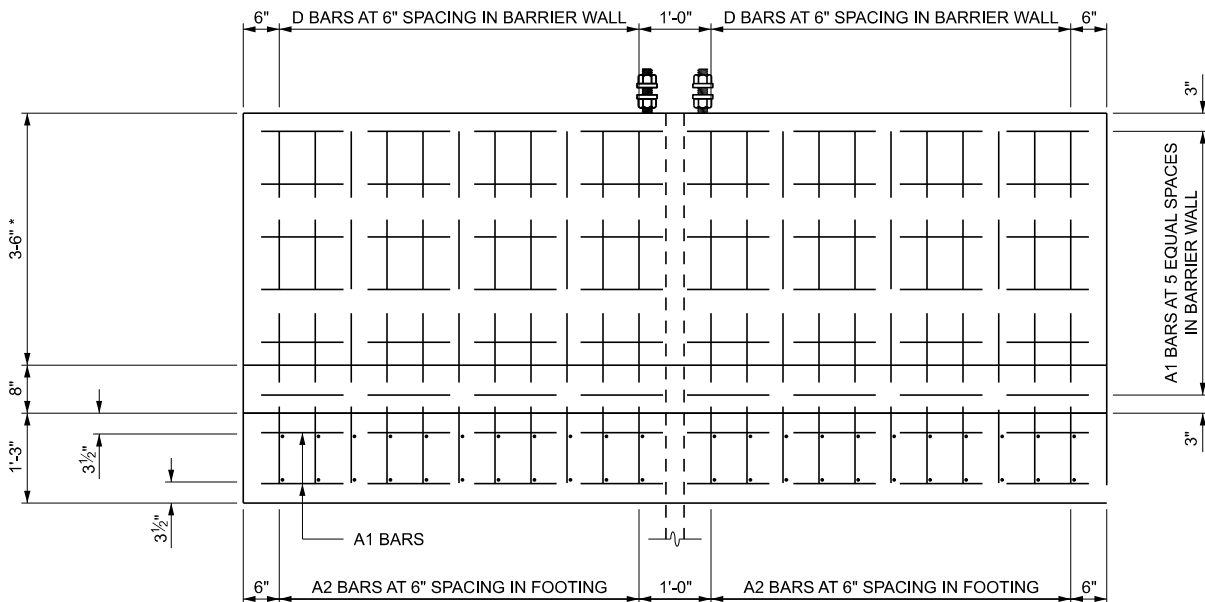
12/12/2023  
PLAN DATE

R-50-H

SHEET  
1 OF 6



PLAN  
SHOWING STEEL REINFORCEMENT



ELEVATION  
SHOWING STEEL REINFORCEMENT

\* SEE VARIABLE CROSS-SECTION ON SHEET 6  
WHEN THERE IS A DIFFERENCE IN ELEVATION  
OF GUTTER ON EACH SIDE OF BARRIER



DEPARTMENT DIRECTOR  
BRADLEY C. WIEFERICH, PE

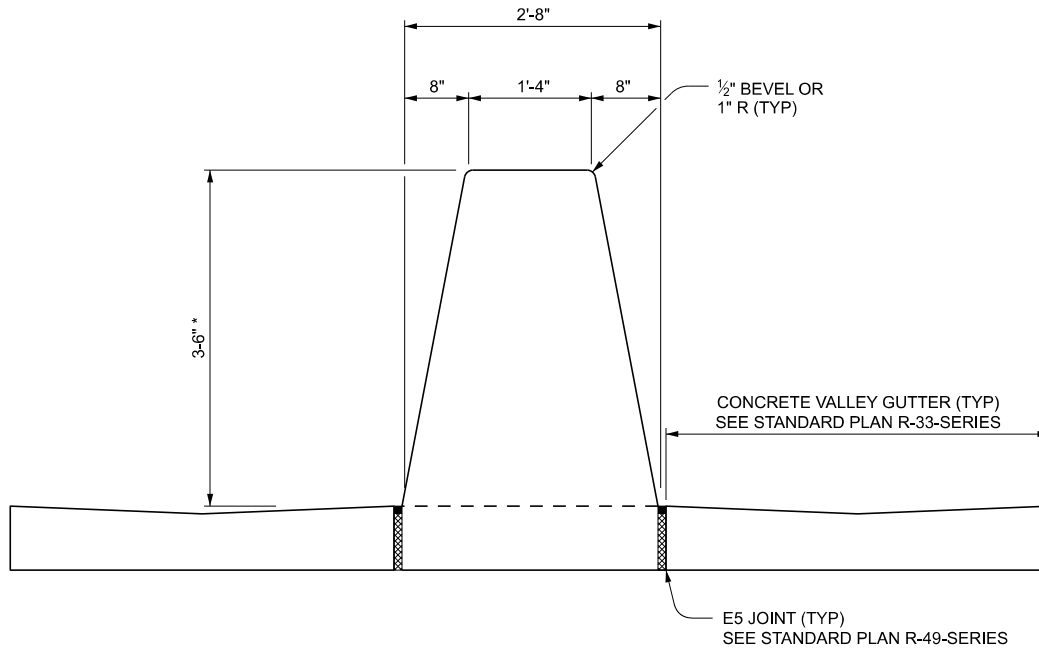
STANDARD PLAN FOR  
LIGHT STANDARD FOUNDATION  
(CONCRETE BARRIER, DOUBLE FACE)

(SPECIAL DETAIL)  
FHWA APPROVAL

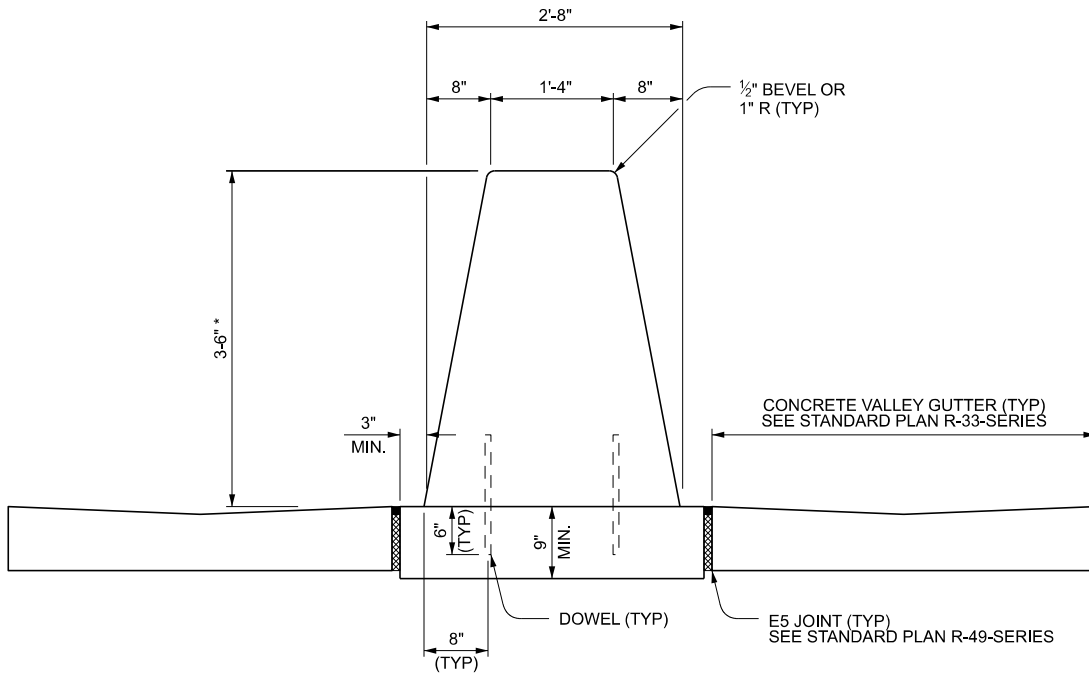
12/12/2023  
PLAN DATE

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SHEET  
2 OF 6



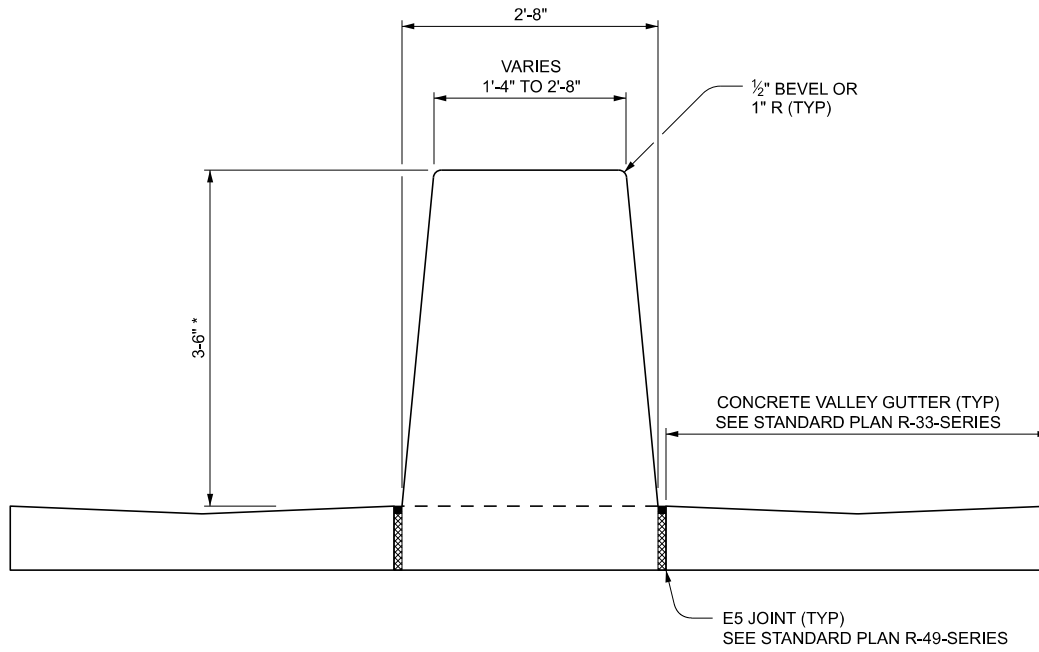
SECTION A-A  
(TYPE A BARRIER)



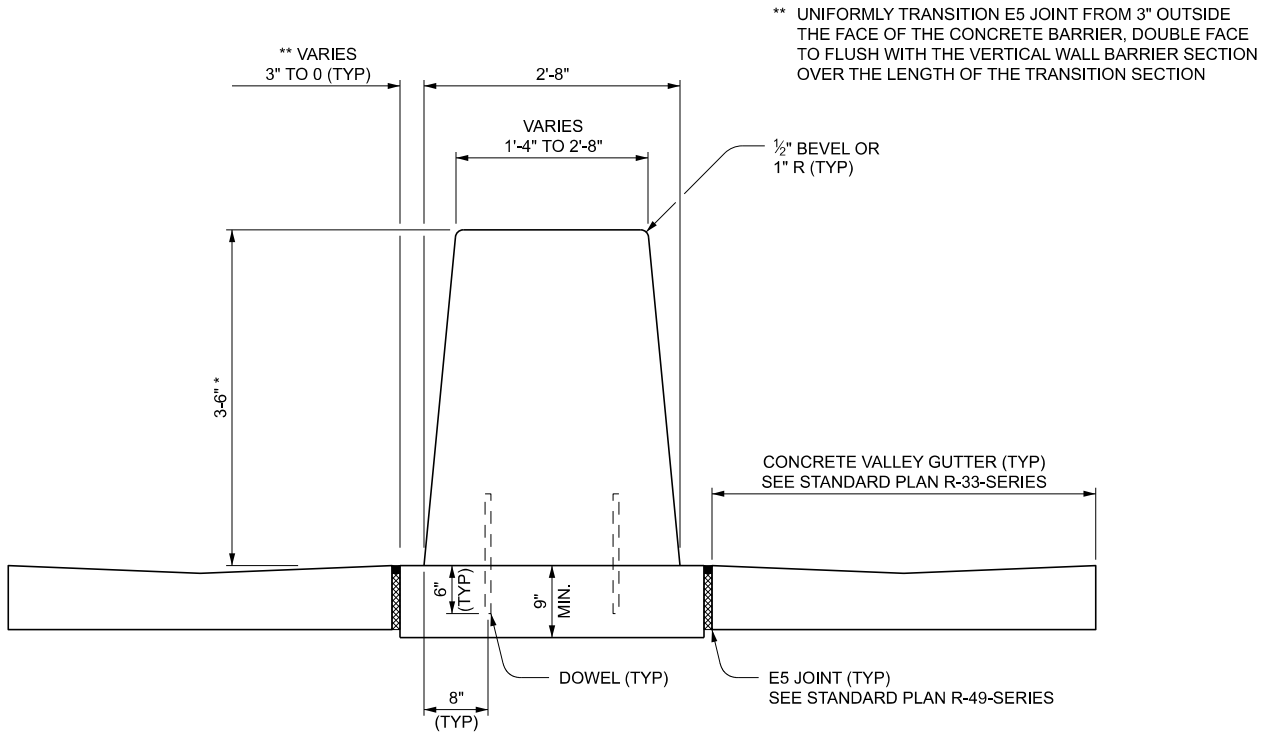
SECTION A-A  
(TYPE B BARRIER)

\* SEE VARIABLE CROSS-SECTION ON SHEET 6  
WHEN THERE IS A DIFFERENCE IN ELEVATION  
OF GUTTER ON EACH SIDE OF BARRIER

 DEPARTMENT DIRECTOR BRADLEY C. WIEFERICH, PE	STANDARD PLAN FOR <b>LIGHT STANDARD FOUNDATION</b> (CONCRETE BARRIER, DOUBLE FACE)		<b>R-50-H</b>	SHEET 3 OF 6
	(SPECIAL DETAIL) FHWA APPROVAL	12/12/2023 PLAN DATE		



**SECTION B-B**  
 (TYPE A BARRIER)  
 UNIFORMLY TRANSITION THE BARRIER FACES  
 FROM SINGLE SLOPE SHAPE TO VERTICAL WALL



**SECTION B-B**  
 (TYPE B BARRIER)  
 UNIFORMLY TRANSITION THE BARRIER FACES  
 FROM SINGLE SLOPE SHAPE TO VERTICAL WALL

\*\* UNIFORMLY TRANSITION E5 JOINT FROM 3" OUTSIDE THE FACE OF THE CONCRETE BARRIER, DOUBLE FACE TO FLUSH WITH THE VERTICAL WALL BARRIER SECTION OVER THE LENGTH OF THE TRANSITION SECTION

\* SEE VARIABLE CROSS-SECTION ON SHEET 6 WHEN THERE IS A DIFFERENCE IN ELEVATION OF GUTTER ON EACH SIDE OF BARRIER



DEPARTMENT DIRECTOR  
 BRADLEY C. WIEFERICH, PE

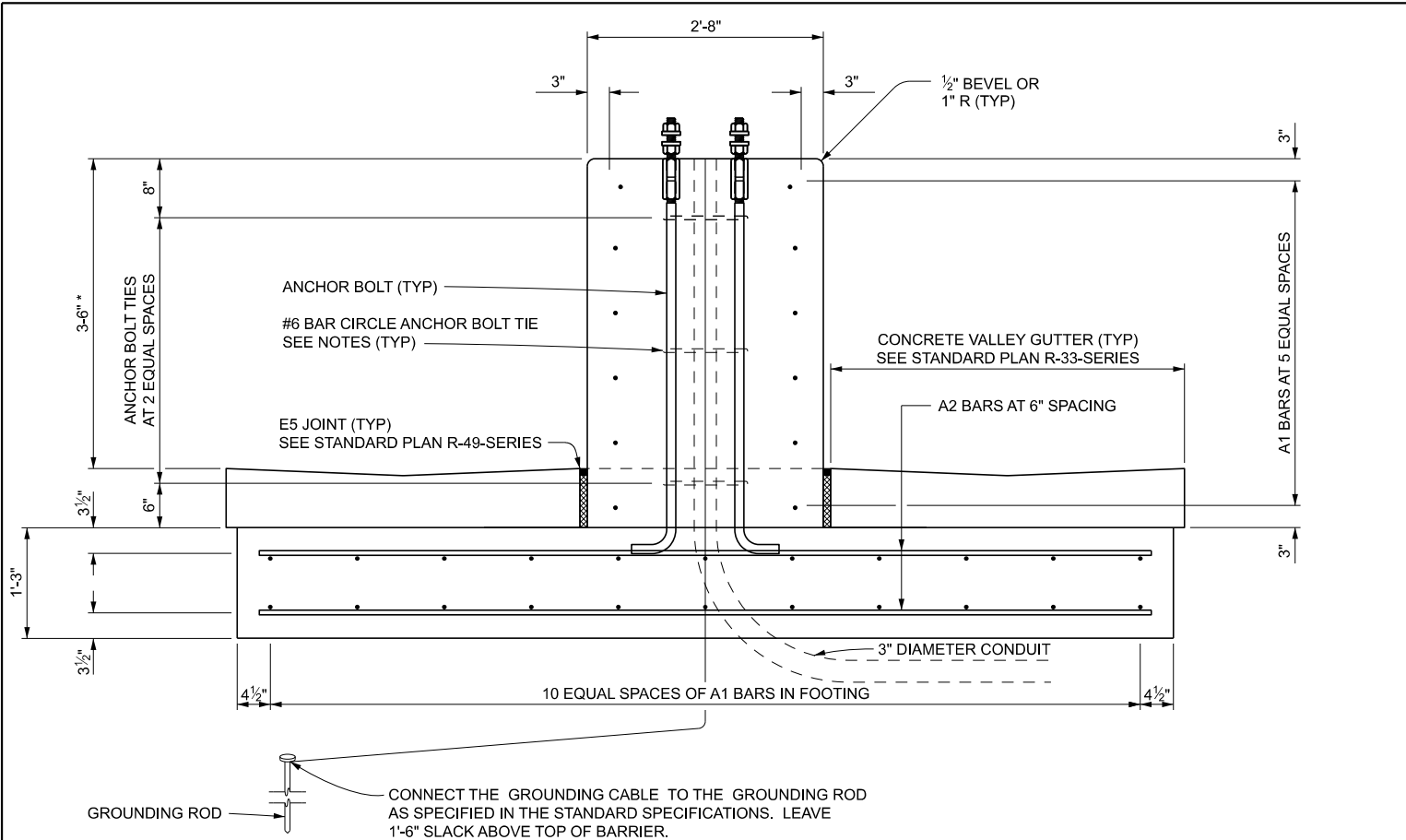
STANDARD PLAN FOR  
 LIGHT STANDARD FOUNDATION  
 (CONCRETE BARRIER, DOUBLE FACE)

(SPECIAL DETAIL)  
 FHWA APPROVAL

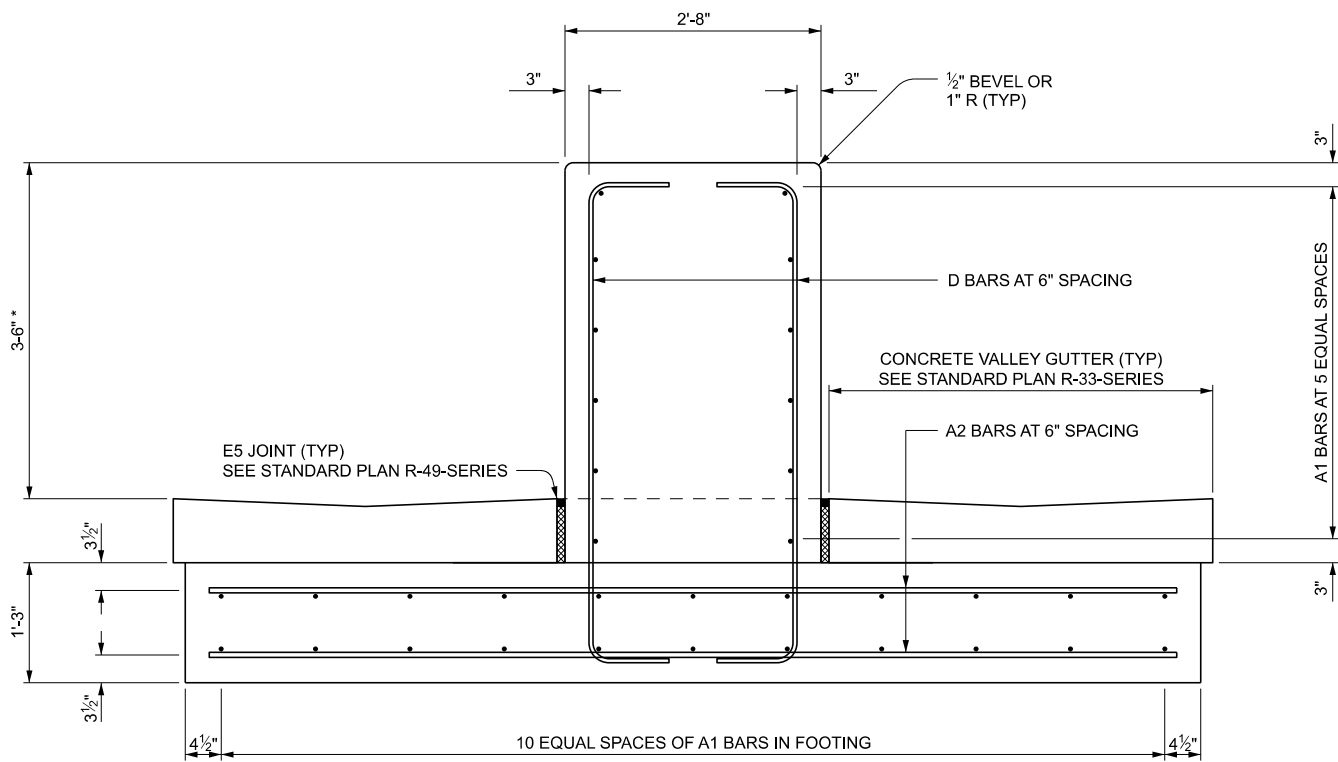
12/12/2023  
 PLAN DATE

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 4 OF 6



SECTION C-C



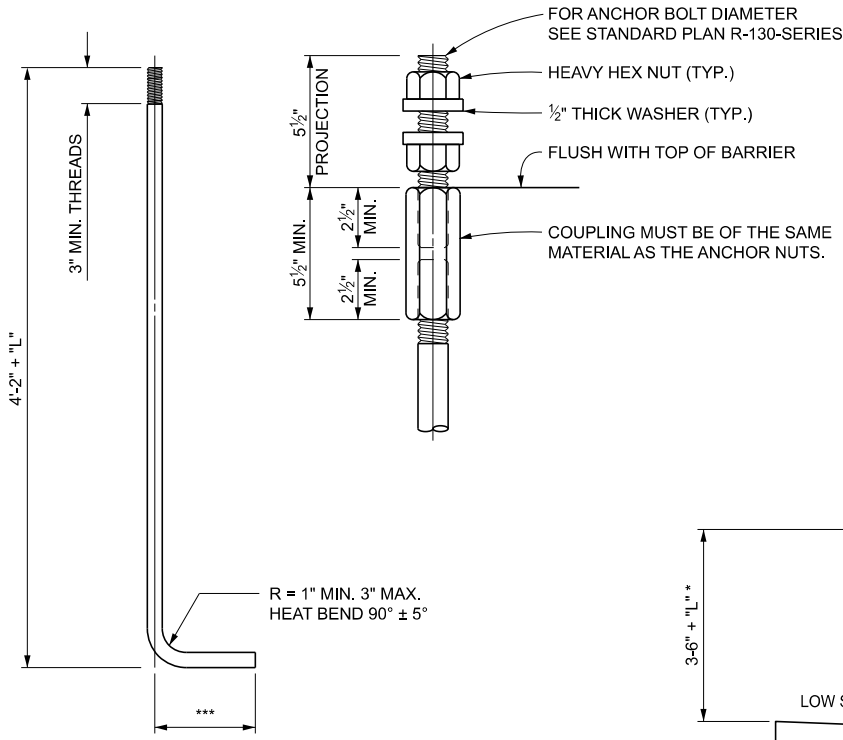
SECTION D-D

\* SEE VARIABLE CROSS-SECTION ON SHEET 6 WHEN THERE IS A DIFFERENCE IN ELEVATION OF GUTTER ON EACH SIDE OF BARRIER

**MDOT**  
Michigan Department of Transportation

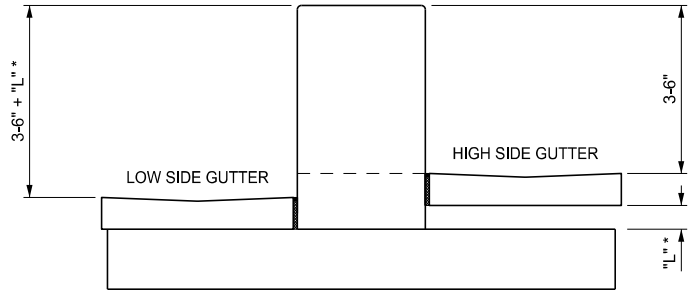
DEPARTMENT DIRECTOR  
BRADLEY C. WIEFERICH, PE

STANDARD PLAN FOR LIGHT STANDARD FOUNDATION (CONCRETE BARRIER, DOUBLE FACE)			
(SPECIAL DETAIL)	12/12/2023	<b>R-50-H</b>	SHEET 5 OF 6
FHWA APPROVAL	PLAN DATE		



**ANCHOR BOLT DETAIL**  
 \*\*\* FOR ANCHOR BOLT HOOK LENGTH,  
 SEE STANDARD PLAN R-130-SERIES

CONCRETE QUANTITIES **	
FOOTING	5.5 CYD
VERTICAL WALL SECTION	4.9 CYD
TRANSITION SECTIONS (TYPE A)	5.9 CYD
TRANSITION SECTIONS (TYPE B)	6.2 CYD



**VARIABLE CROSS-SECTION**

\*L = DIFFERENCE IN ELEVATION OF GUTTER ON EACH SIDE OF BARRIER  
 ("L" CANNOT BE GREATER THAN 6")

STEEL REINFORCEMENT (EPOXY COATED)				
BAR	BAR SIZE	LENGTH	NUMBER REQUIRED	WEIGHT (LBS) **
A1	#5	11'-6"	32	384
A2	#6	9'-10"	44	650
D	#4	6'-8"	44	198
TOTAL WEIGHT OF STEEL = 1232 LBS **				

\*\* QUANTITIES BASED ON "L" = 0"

**NOTES:**

THE SIDE CONFIGURATION SPECIFIED ON THIS PLAN CONFORMS TO THE "SINGLE SLOPE" SHAPE.

ALL EXPOSED EDGES ON THE BARRIER SHALL HAVE A 1/2" BEVEL OR 1" RADIUS.

ANCHOR BOLTS, NUTS, AND WASHERS SHALL BE ACCORDING TO THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.

PRIOR TO BEING APPROVED FOR SHIPMENT, EACH SET OF FOUR ANCHOR BOLTS SHALL BE TIED TOGETHER INTO A BASKET BY WELDING #6 BAR CIRCLES (OR APPROVED EQUAL) ALONG WITH SECURING A 3/4" PLYWOOD (OR APPROVED EQUAL) TEMPLATE. THE ANCHOR BOLT BASKET SHALL BE CAREFULLY SET AND HELD VERTICAL AT THE CORRECT LOCATION AND AT THE PROPER HEIGHT WITH THE 3/4" PLYWOOD (OR APPROVED EQUAL) TEMPLATE.

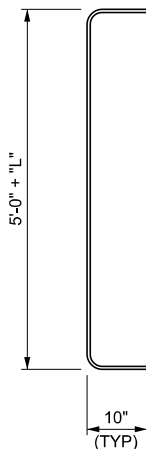
THE CONCRETE VALLEY GUTTER USED IN CONJUNCTION WITH THE LIGHT STANDARD FOUNDATION SHALL BE CONSTRUCTED AS DETAILED ON THIS PLAN. THE DESIGN FOR THIS STRUCTURE PERMITS A 6" DIFFERENCE IN ELEVATION BETWEEN THE GUTTER ON EITHER SIDE OF THE BARRIER.

WORK THIS STANDARD WITH STANDARD PLAN R-49-SERIES AND WHEN APPLICABLE R-33-SERIES.

MATERIALS FOR THE ELECTRICAL GROUNDING SYSTEM SHALL BE ACCORDING TO THE STANDARD SPECIFICATIONS FOR CONSTRUCTION UNLESS OTHERWISE SPECIFIED ON THIS PLAN.



**A BAR**



**D BAR**



DEPARTMENT DIRECTOR  
 BRADLEY C. WIEFERICH, PE

STANDARD PLAN FOR  
**LIGHT STANDARD FOUNDATION**  
 (CONCRETE BARRIER, DOUBLE FACE)

(SPECIAL DETAIL)  
 FHWA APPROVAL

12/12/2023  
 PLAN DATE

**R-50-H**

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