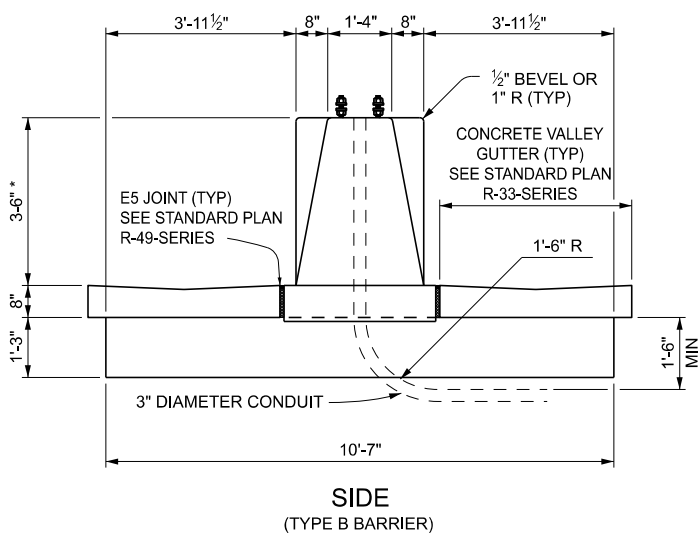
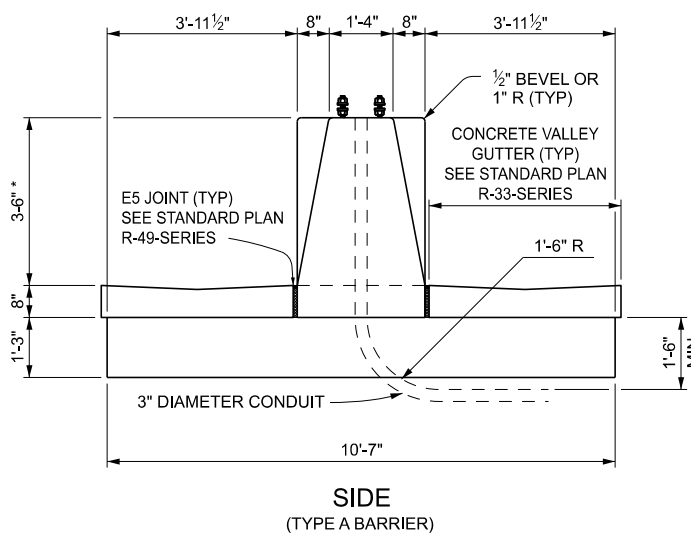


\* SEE VARIABLE CROSS-SECTION ON SHEET 6 WHEN THERE IS A DIFFERENCE IN ELEVATION OF GUTTER ON EACH SIDE OF BARRIER

\*\* REFER TO TRANSITION SECTION DETAIL FOR A THREE DIMENSIONAL VIEW OF THE TRANSITION SECTION.



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

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



DEPARTMENT DIRECTOR  
BRADLEY C. WIEFERICH, PE

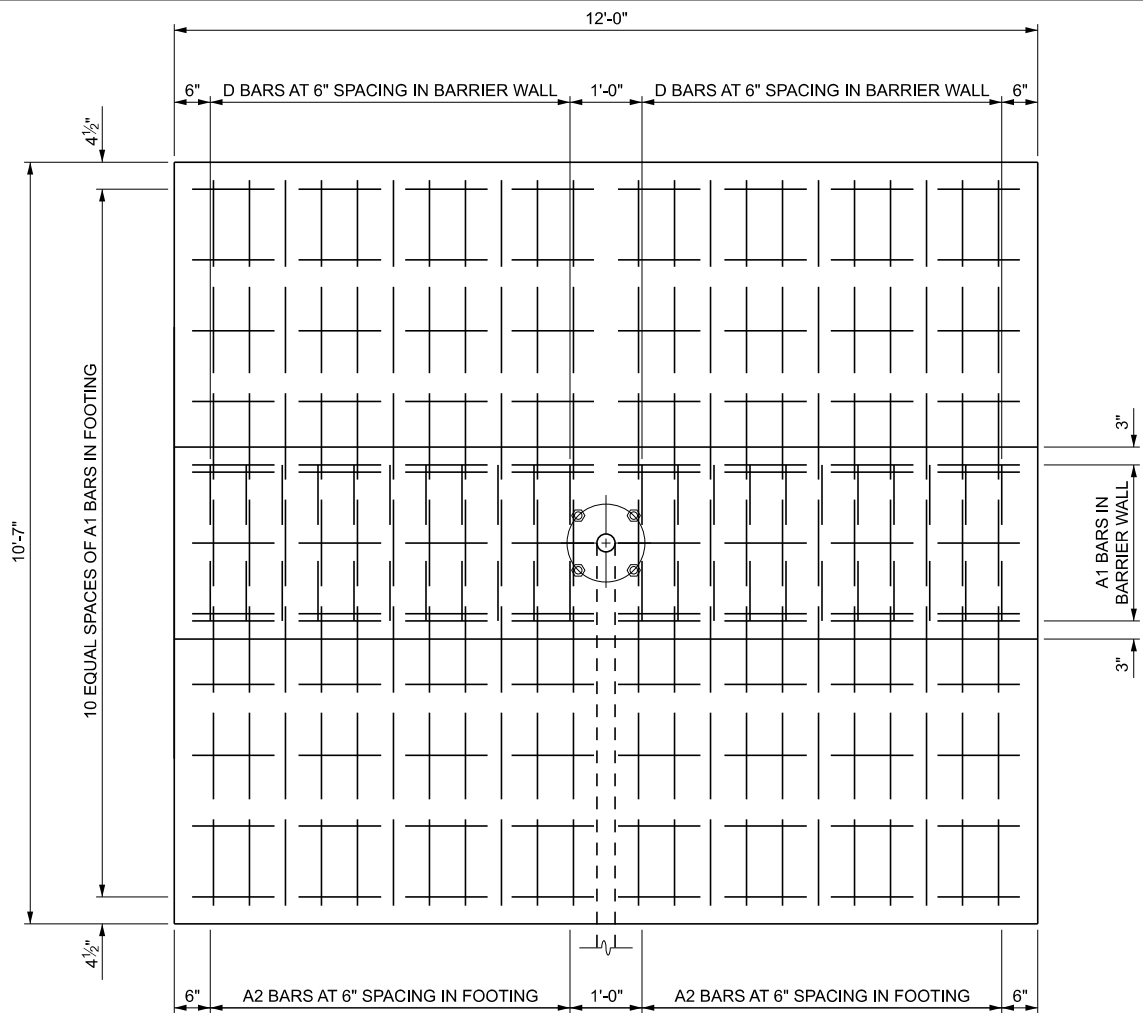
STANDARD PLAN FOR  
LIGHT STANDARD FOUNDATION  
(CONCRETE BARRIER, DOUBLE FACE)

(SPECIAL DETAIL)  
FHWA APPROVAL

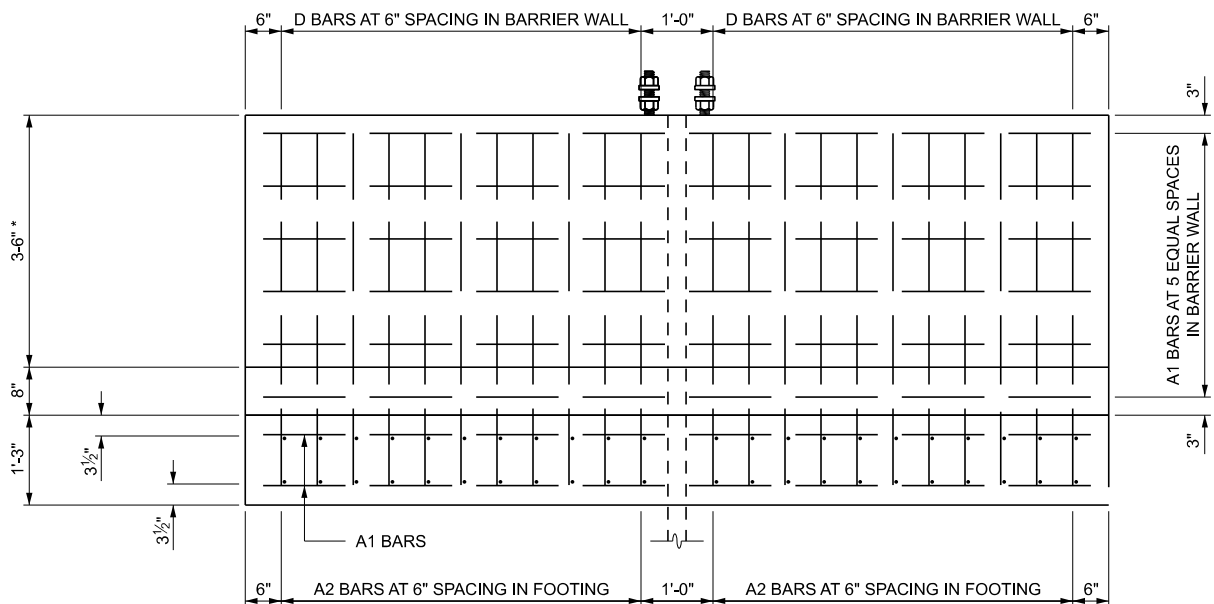
10/30/2025  
PLAN DATE

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

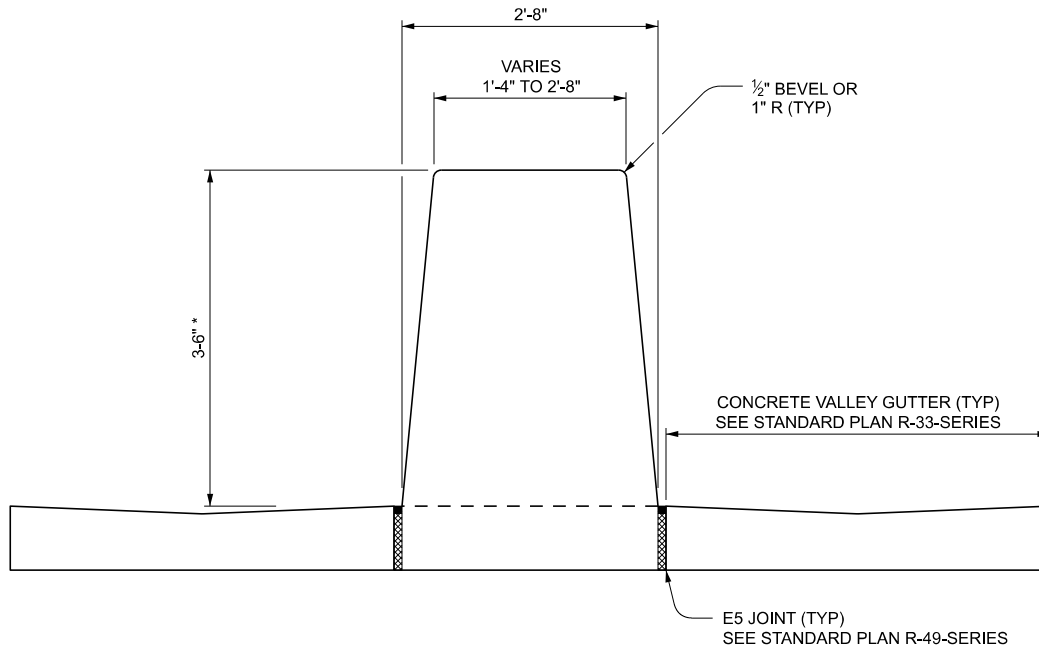
10/30/2025  
PLAN DATE

R-50-H

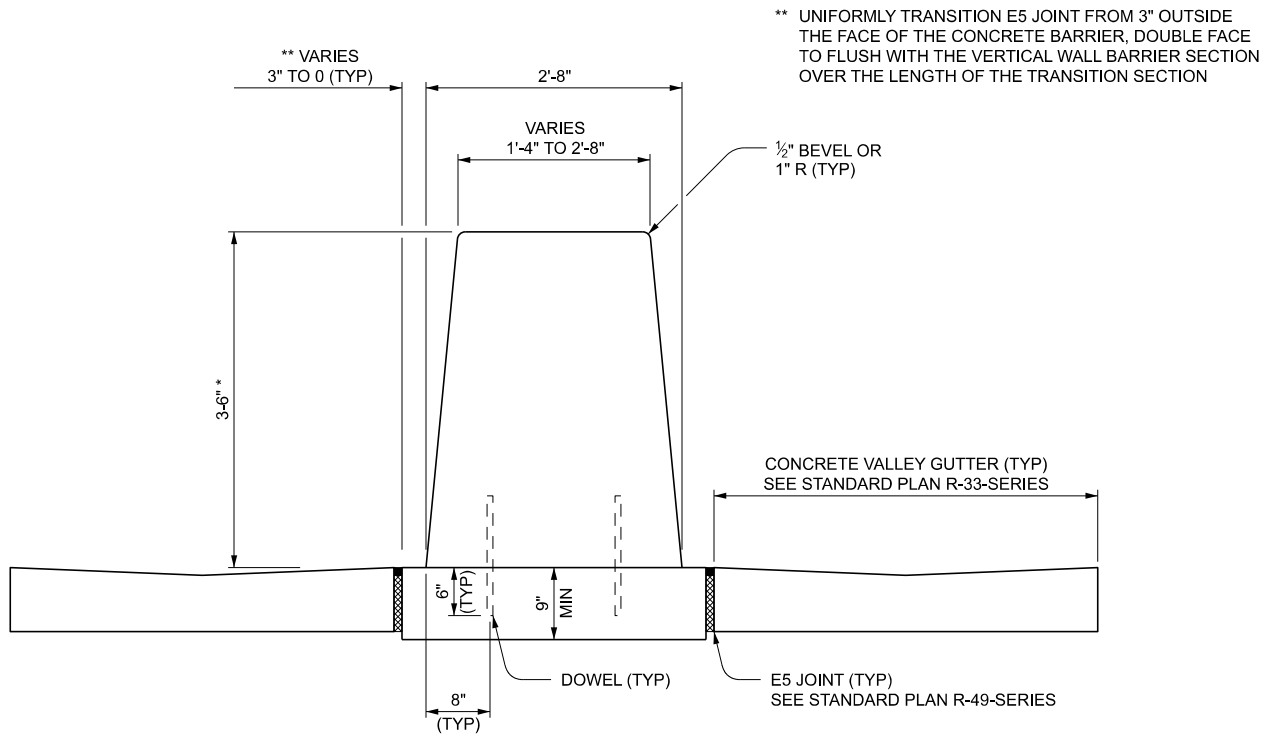
SHEET  
2 OF 6



SHEET  
3 OF 6



**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

\* 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

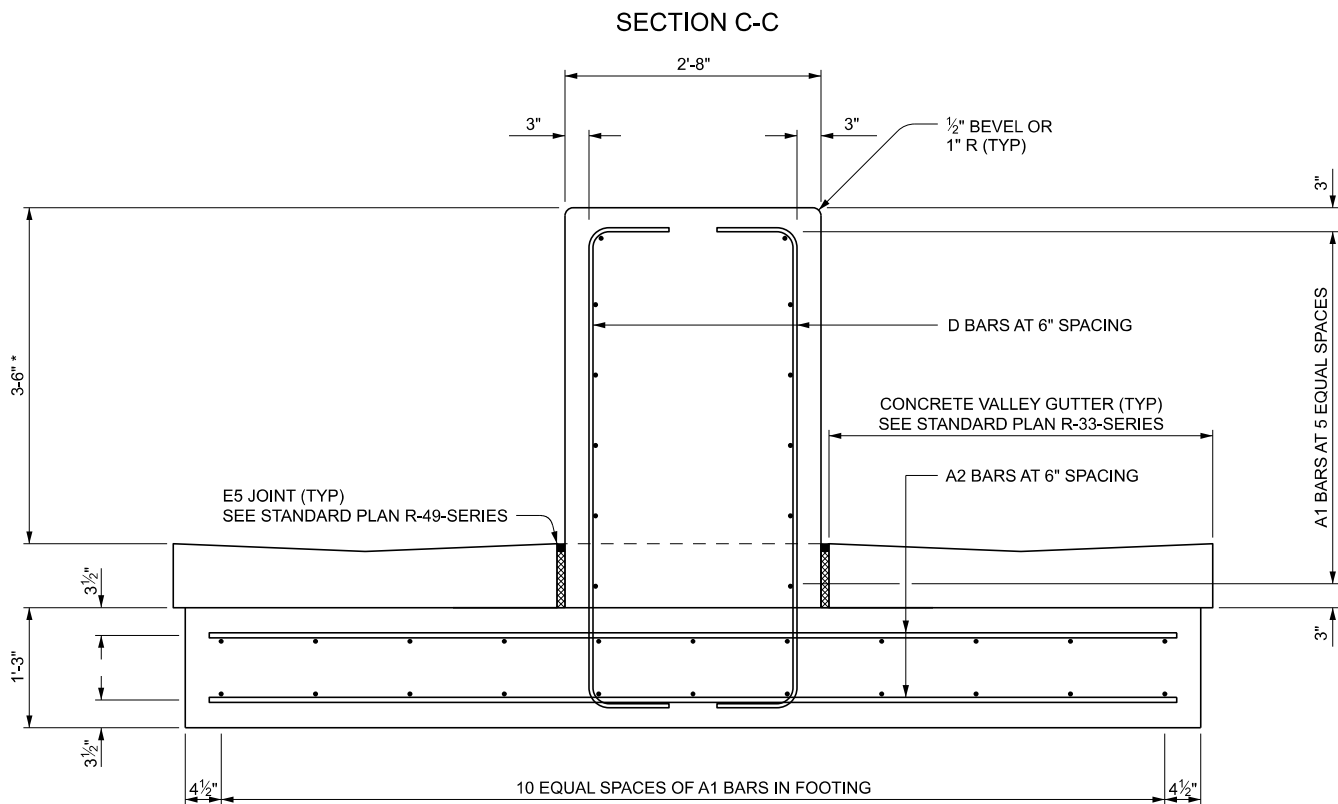
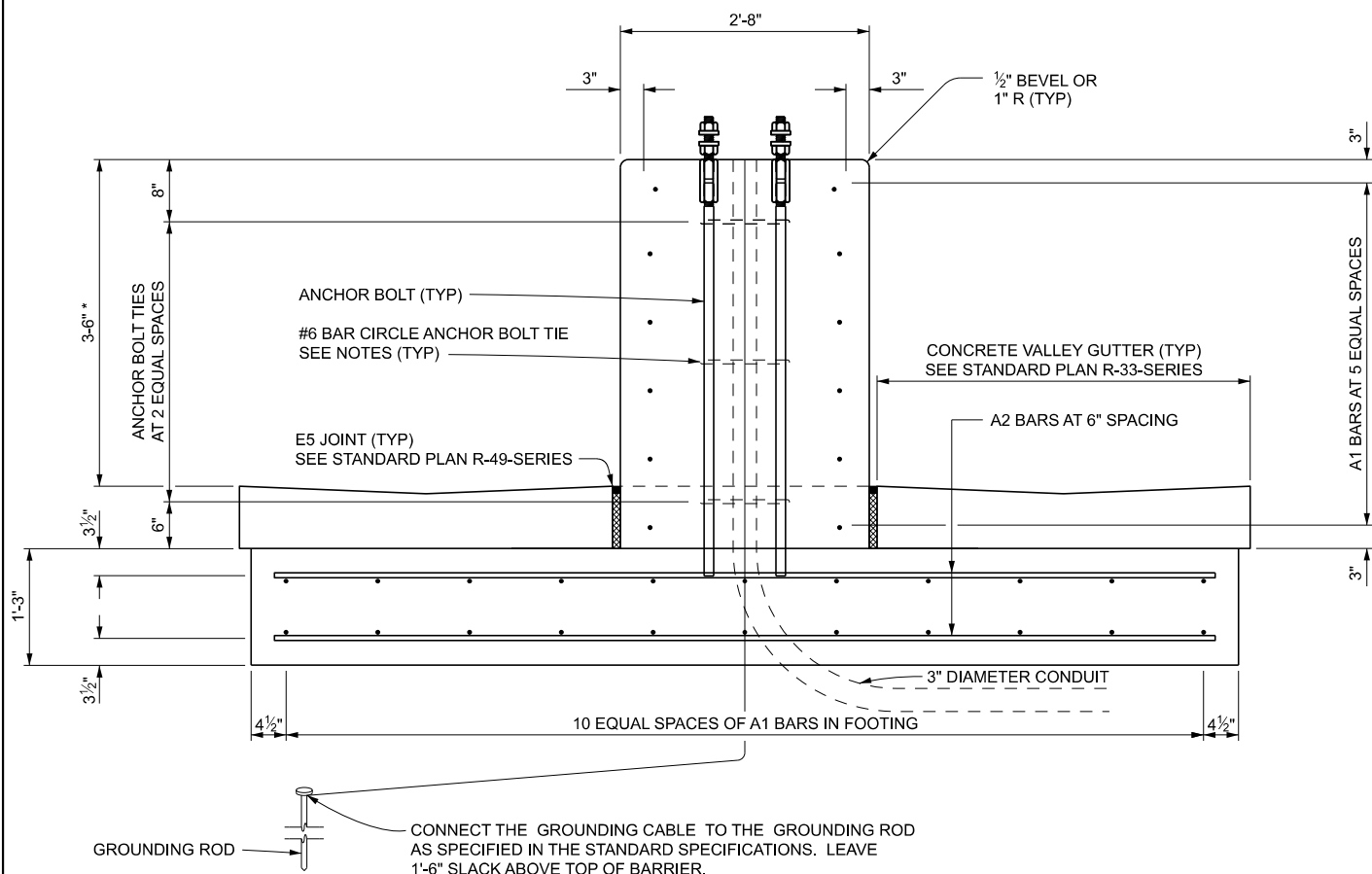
STANDARD PLAN FOR  
LIGHT STANDARD FOUNDATION  
(CONCRETE BARRIER, DOUBLE FACE)

(SPECIAL DETAIL)  
FHWA APPROVAL

10/30/2025  
PLAN DATE

**R-50-H**

SHEET  
4 OF 6



\* 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

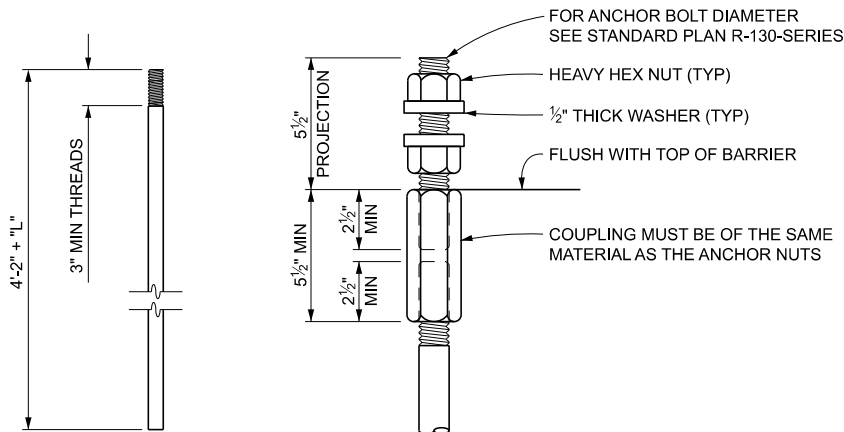
STANDARD PLAN FOR  
LIGHT STANDARD FOUNDATION  
(CONCRETE BARRIER, DOUBLE FACE)

(SPECIAL DETAIL)  
FHWA APPROVAL

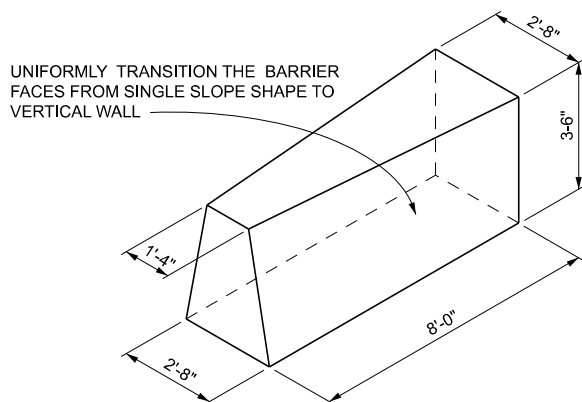
10/30/2025  
PLAN DATE

R-50-H

SHEET  
5 OF 6



ANCHOR BOLT DETAIL

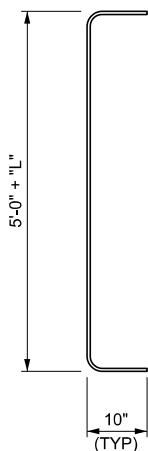


TRANSITION SECTION DETAIL

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 **				

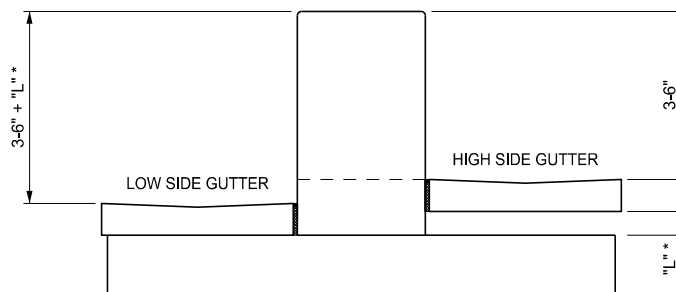


A BAR



D BAR

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")

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

NOTES:

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

ENSURE ALL EXPOSED EDGES OF THE BARRIER HAVE A 1/2" BEVEL OR A 1" RADIUS.

ENSURE ANCHOR BOLTS, NUTS, AND WASHERS MEET THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.

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

CONSTRUCT THE CONCRETE VALLEY GUTTER USED IN CONJUNCTION WITH THE LIGHT STANDARD FOUNDATION 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.

FOR CONCRETE GLARE SCREEN DETAILS, SEE STANDARD PLAN R-76-SERIES.

ENSURE MATERIALS FOR THE ELECTRICAL GROUNDING SYSTEM ARE ACCORDING TO THE STANDARD SPECIFICATIONS FOR CONSTRUCTION, UNLESS OTHERWISE SPECIFIED ON THIS PLAN.



DEPARTMENT DIRECTOR  
BRADLEY C. WIEFERICH, PE

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

(SPECIAL DETAIL)  
FHWA APPROVAL

10/30/2025  
PLAN DATE

R-50-H

SHEET  
6 OF 6