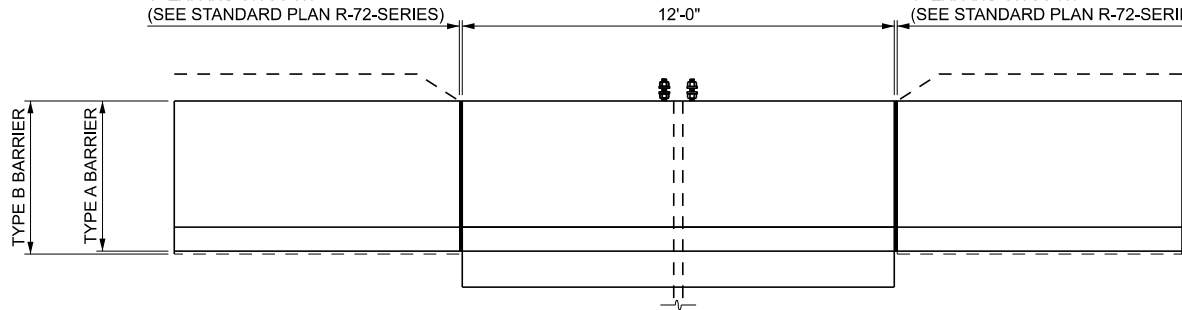


PLAN

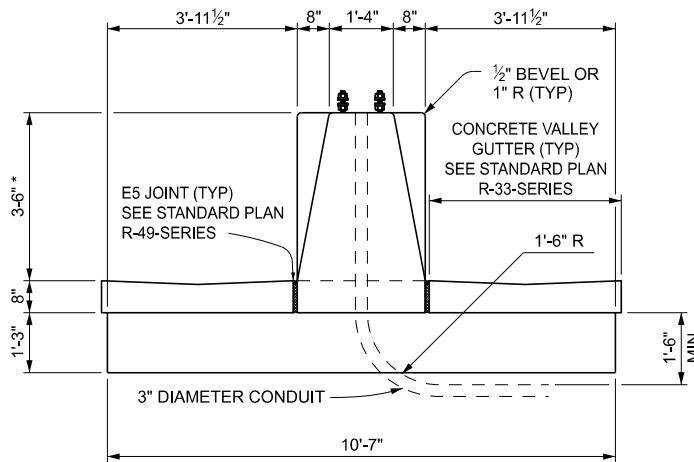
WHERE CONCRETE GLARE SCREEN IS SPECIFIED ON THE PLANS, END THE GLARE SCREEN AT THE 1" EXPANSION JOINT (SEE STANDARD PLAN R-72-SERIES)

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

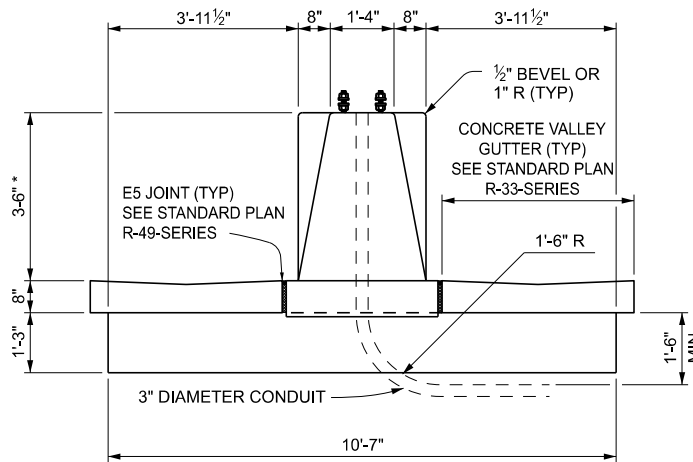


ELEVATION

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



SIDE
(TYPE A BARRIER)



SIDE
(TYPE B BARRIER)

APPROVED BY: _____
DIRECTOR, BUREAU OF FIELD SERVICES

APPROVED BY: _____
DIRECTOR, BUREAU OF DEVELOPMENT



DEPARTMENT DIRECTOR
BRADLEY C. WIEFERICH, PE

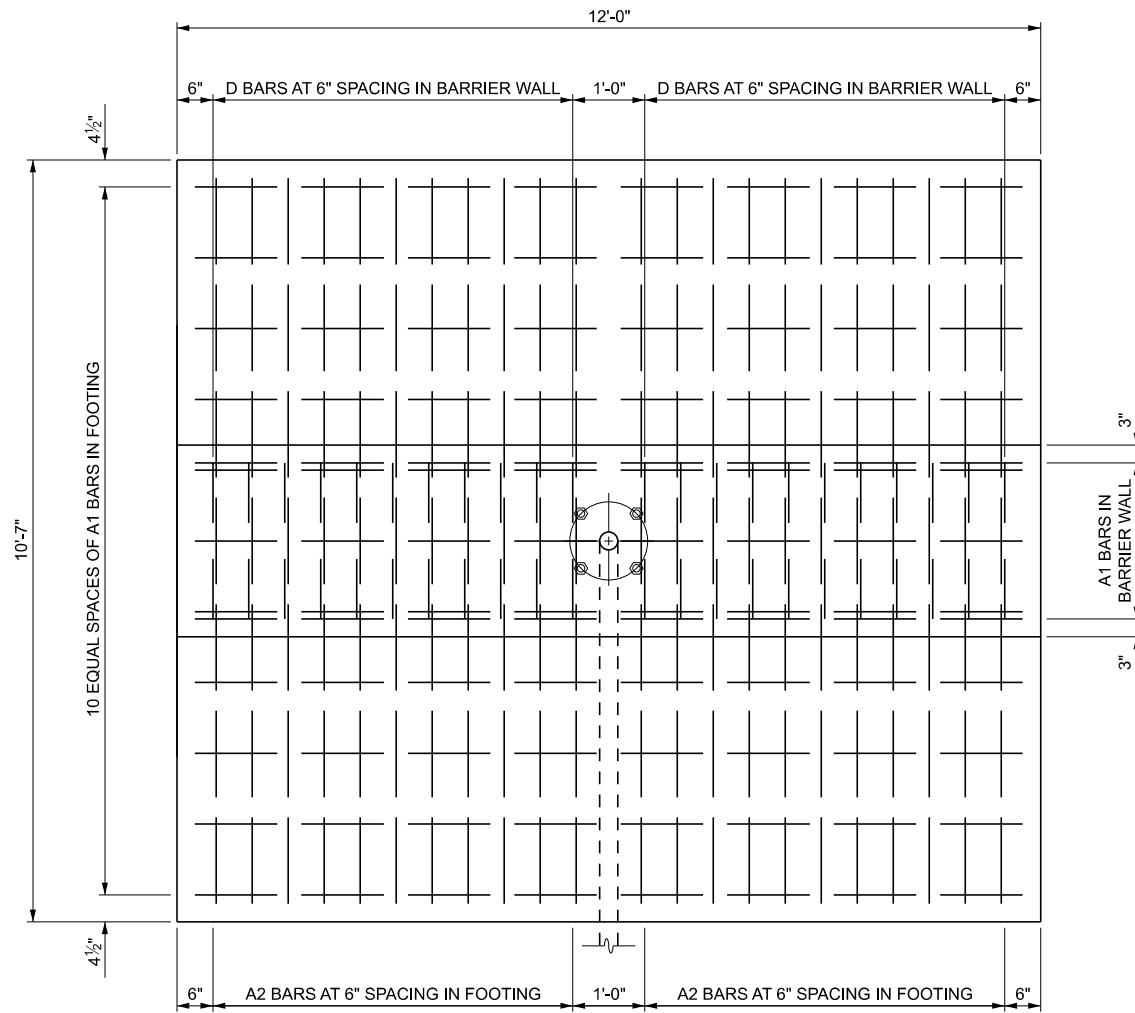
STANDARD PLAN FOR
LIGHT STANDARD FOUNDATION
(CONCRETE BARRIER, DOUBLE FACE)

(SPECIAL DETAIL)
FHWA APPROVAL

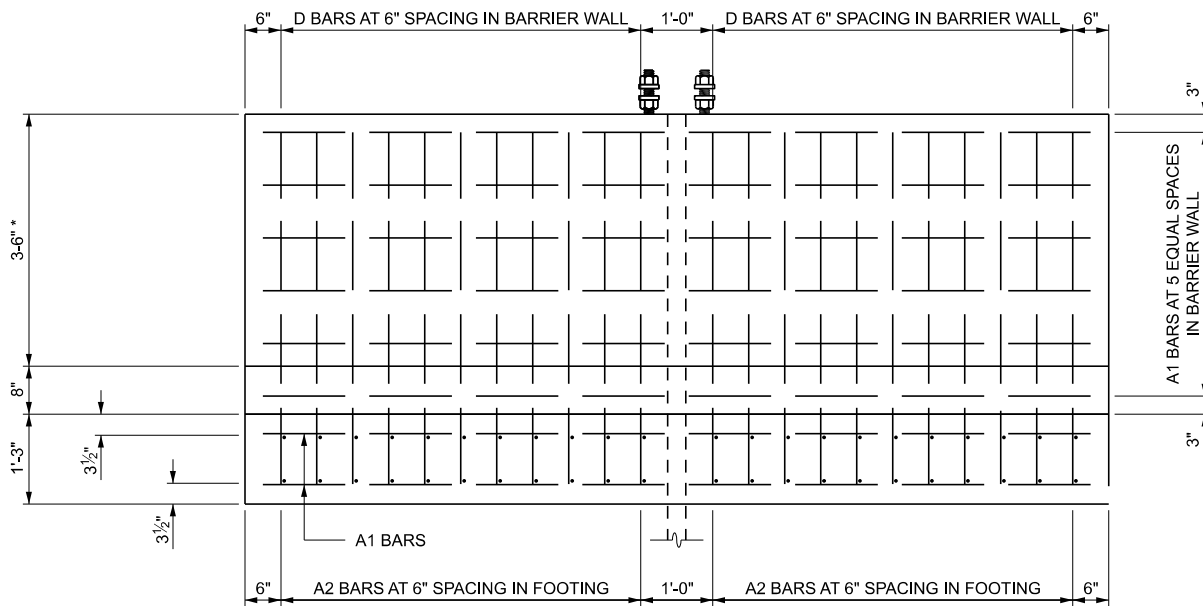
08/22/2025
PLAN DATE

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)

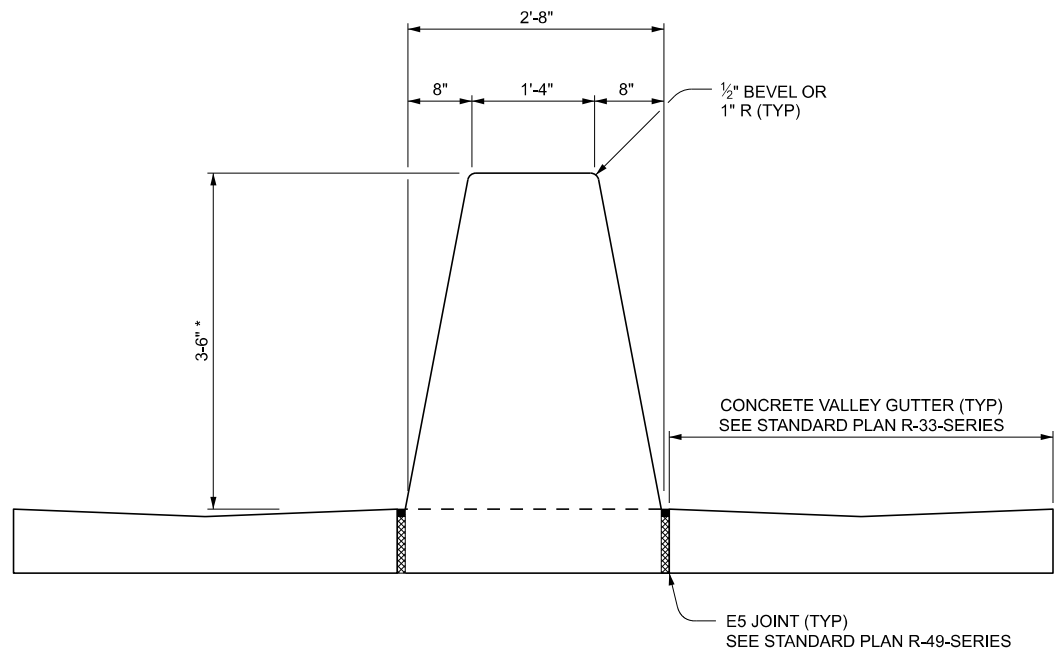
(SPECIAL DETAIL)
FHWA APPROVAL

08/22/2025
PLAN DATE

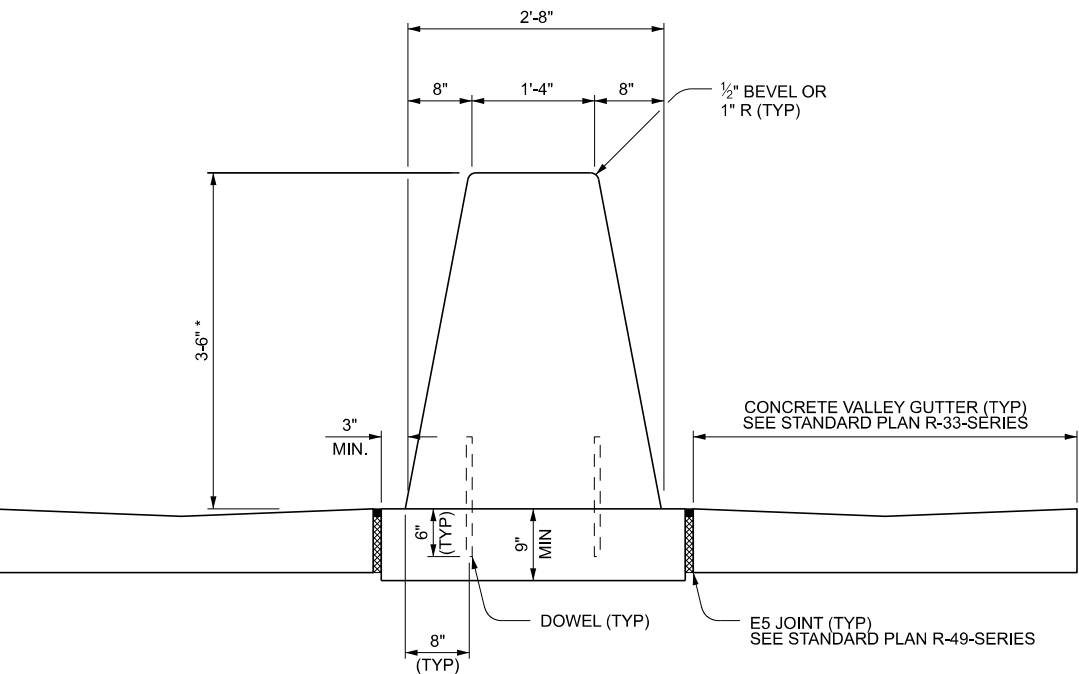
R-50-H

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2 OF 6

SECT




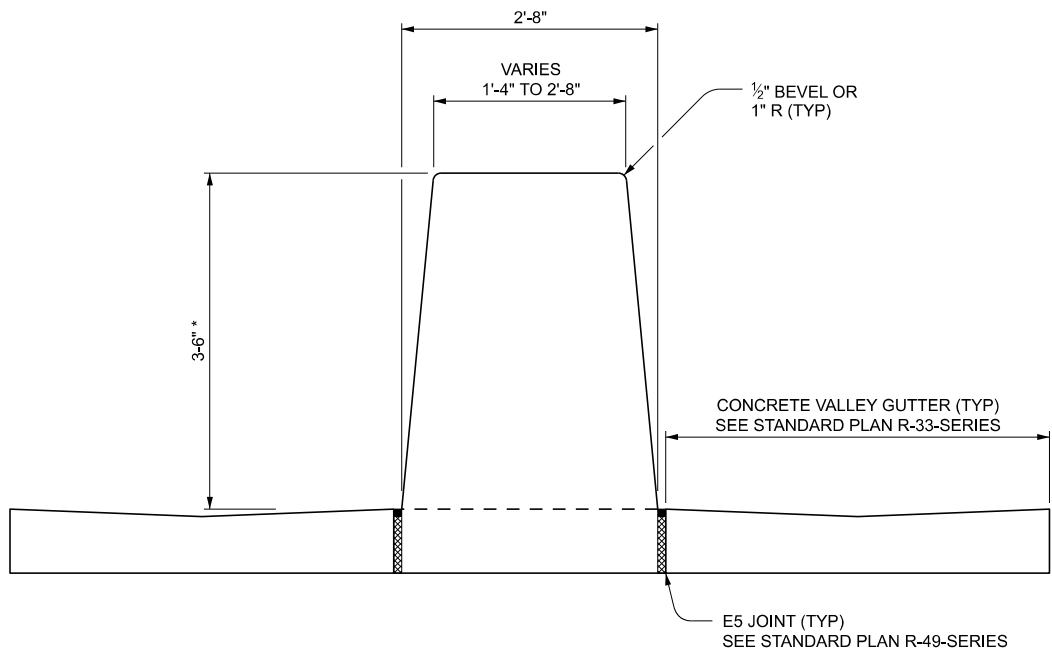
SECTION A-A
(TYPE A BARRIER)



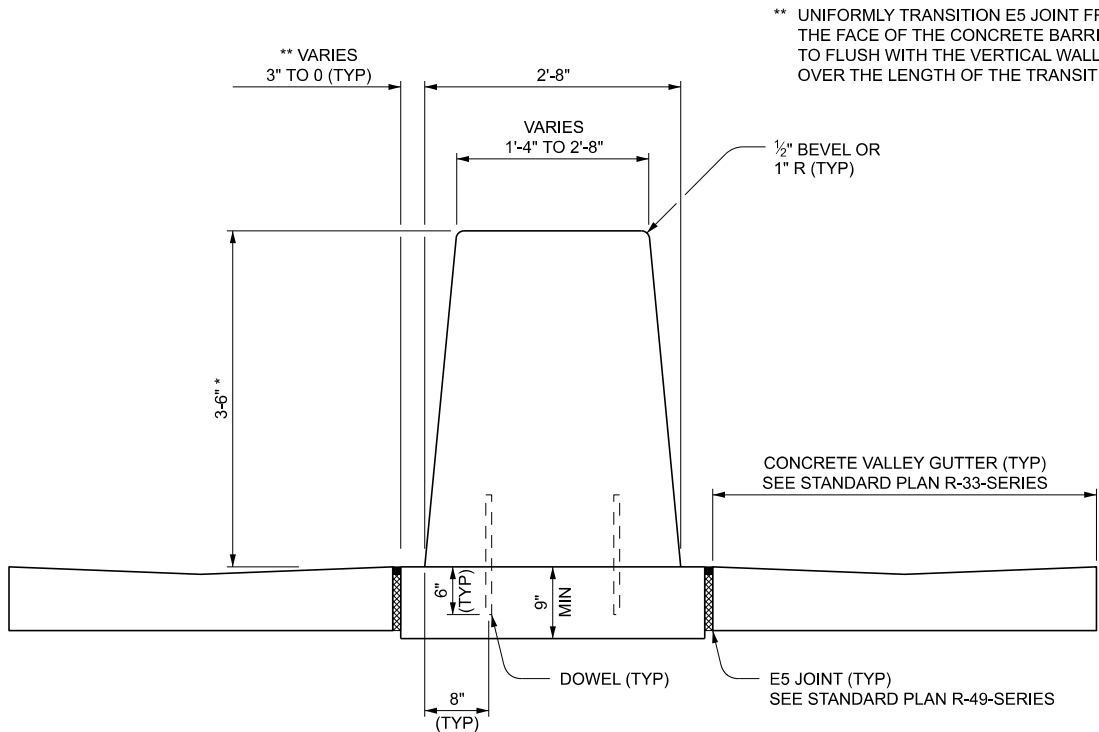
SECTION A-A
(TYPE B BARRIER)

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

 Michigan Department of Transportation DEPARTMENT DIRECTOR BRADLEY C. WIEFERICH, PE	STANDARD PLAN FOR LIGHT STANDARD FOUNDATION (CONCRETE BARRIER, DOUBLE FACE)			
	(SPECIAL DETAIL) FHWA APPROVAL	08/22/2025 PLAN DATE	R-50-H	SHEET 3 OF 6




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

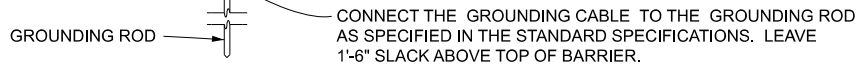


SECTION B-B
(TYPE B BARRIER)
UNIFORMLY TRANSITION THE BARRIER FACES
FROM SINGLE SLOPE SHAPE TO VERTICAL WALL

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

 Michigan Department of Transportation DEPARTMENT DIRECTOR BRADLEY C. WIEFERICH, PE	STANDARD PLAN FOR LIGHT STANDARD FOUNDATION (CONCRETE BARRIER, DOUBLE FACE)			
	(SPECIAL DETAIL) FHWA APPROVAL	08/22/2025 PLAN DATE	R-50-H	SHEET 4 OF 6

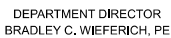
SECT



Technical drawing showing a cross-section of a concrete valley gutter. The drawing includes the following dimensions and labels:

- Overall width: 2'-8"
- Top flange width: 3"
- Top flange thickness: 3"
- Top flange reinforcement: 1/2" BEVEL OR 1" R (TYP)
- Vertical height of the gutter: 3'-6"
- Reinforcement: D BARS AT 6" SPACING
- Concrete Valley Gutter (TYP) SEE STANDARD PLAN R-33-SERIES
- Reinforcement: A2 BARS AT 6" SPACING
- Joint detail: E5 JOINT (TYP) SEE STANDARD PLAN R-49-SERIES
- Bottom flange width: 3"
- Bottom flange thickness: 3 1/2"
- Bottom flange reinforcement: 10 EQUAL SPACES OF A1 BARS IN FOOTING
- Bottom flange width: 4 1/2"
- Bottom flange thickness: 3 1/2"
- Bottom flange reinforcement: 10 EQUAL SPACES OF A1 BARS IN FOOTING
- Bottom flange width: 4 1/2"
- Bottom flange thickness: 3"
- Bottom flange reinforcement: 10 EQUAL SPACES OF A1 BARS IN FOOTING

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



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A horizontal line with arrows at both ends, labeled "LENGTH" in the center.

Side elevation of the wall. The vertical dimension is labeled $5'-0'' + 1''$. The horizontal dimension at the base is labeled $10''$ (TYP).

D BAR

Diagram illustrating the gutter placement and dimensions for a roof section. The diagram shows a cross-section of a roof with a central vertical structure. The gutter is labeled "LOW SIDE GUTTER" on the left and "HIGH SIDE GUTTER" on the right. The gutter is shown as a dashed line. The dimensions are indicated as follows:

- Vertical dimension on the left: 3'-6" + 1"
- Vertical dimension on the right: 3'-6"
- Horizontal dimension at the bottom right: 1'-0"

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

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.

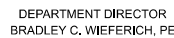
ENSURE ANCHOR BOLTS, NUTS, AND WASHERS MEET THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.

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.

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



(SPECIAL DETAIL)
FHWA APPROVAL

08/22/2025
PLAN DATE

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SECT