







## NOTES

THE SIDE CONFIGURATION SPECIFIED ON THIS PLAN CONFORMS TO THE SINGLE SLOPE SHAPE AS SPECIFIED ON STANDARD PLAN R-49-SERIES.

PLACE 1" EXPANSION JOINTS IN THE CONCRETE BARRIER AT APPROXIMATELY 400 INTERVALS. ALSO PLACE 1" EXPANSION JOINTS AT STRUCTURES (INCLUDING SIGN SUPPORTS, LIGHT STANDARD FOUNDATIONS, BRIDGE PIERS, OR ANY STRUCTURE WITH A FOUNDATION). ADJUST LOCATION OF EXPANSION JOINTS TO MATCH EXPANSION JOINTS IN THE SHOULDER. SPACE PLANE OF WEAKNESS JOINTS 20' MAXIMUM AND 10' MINIMUM, EXCEPT WHEN THE BARRIER IS ON A CONCRETE SHOULDER. ENSURE PLANE OF WEAKNESS JOINT SPACING COINCIDES WITH THE CONTRACTION JOINTS IN THE SHOULDER.

ENSURE JOINTS IN THE CONCRETE FOOTING COINCIDE WITH THE JOINTS IN THE CONCRETE BARRIER.

ENSURE PLANE OF WEAKNESS JOINTS IN THE CONCRETE BARRIER ARE AT LEAST  $2\%^\circ$  DEEP AND EDGED.

IN A CUT SECTION. END THE CONCRETE BARRIER BY BURYING IT IN THE SIDE SLOPE.

IN FILL SECTIONS, END THE CONCRETE BARRIER WITH GUARDRAIL ANCHORAGE, BRIDGE, DETAIL M1 AND GUARDRAIL APPROACH TERMINAL TYPE TYPE 2M. BUILD GUARDRAIL ANCHORAGES ACCORDING TO STANDARD PLAN R-67-SERIES. BUILD GUARDRAIL APPROACH TERMINALS ACCORDING TO STANDARD PLAN R-62-SERIES. USE BRIDGE APPROACH CURB & GUTTER DETAIL 5, 6, 6A, 7, OR 7AAS SPECIFIED ON THE PLANS AND CONSTRUCT ACCORDING TO STANDARD PLAN R-32-SERIES.

ENSURE THE TOP AND FACES OF THE BARRIER VARY NO MORE THAN  $\frac{1}{2}$ " IN 10' WHEN CHECKED WITH A 10' STRAIGHTEDGE, EXCEPT AT GRADE CHANGES AND CURVES, AND ARE FREE OF HUMPS, SAGS, AND OTHER IRREGULARITIES.

"CONCRETE BARRIER, SINGLE FACE, TYPE A" IS CONCRETE BARRIER CAST MONOLITHIC WITH CONCRETE FOOTINGS; TYPE B IS CONCRETE BARRIER DOWELED TO NONREINFORCED CONCRETE SHOULDERS OR TO A SEPARATE BASE; TYPE C IS CONCRETE BARRIER PLACED ON CONCRETE POST FOOTINGS, WITH NO BACKFILL TO SUPPORT THE BACK SIDE OF THE BARRIER WALL.

WHEN "CONCRETE BARRIER, SINGLE FACE, TYPE A" IS DESIGNATED ON THE PLANS, THE BARRIER MAY BE CONSTRUCTED USING DOWELS AND A WIDENED BASE AS SPECIFIED FOR THE "CONCRETE BARRIER, SINGLE FACE, TYPE B". THE DOWELS, EXTRA WIDTH OF BASE, OR ANY EXTRA WORK REQUIRED WILL BE INCLUDED IN THE PAY ITEM "CONC BARRIER, SINGLE FACE, TYPE A".

THE UNDERDRAIN LOCATED BEHIND THE CONCRETE BARRIER AND AT THE ELEVATION OF THE TOP OF SHOULDER IS A MINIMUM 4" DIAMETER FOUNDATION UNDERDRAIN WRAPPED WITH GEOTEXTILE. PLACE CLASS IIAA GRANULAR MATERIAL AROUND THE UNDERDRAIN AND AT LEAST 12" ABOVE IT. THE REMAINDER OF THE FILL WILL BE ACCORDING TO THE STANDARD SPECIFICATIONS FOR CONSTRUCTION.

FOR DETAILS OF THE SHOULDER SECTION, SEE TYPICAL CROSS-SECTIONS IN THE ROAD PLANS.

SPACE BARRIER REFLECTOR MARKERS AT THE FOLLOWING INTERVALS:
1) 50'-0" ON TANGENT SECTIONS AND CURVES WITH A RADIUS OF

1150' OR MORE.
2) 25'-0" ON CURVES WITH A RADIUS LESS THAN 1150'.

MATCH BARRIER REFLECTOR MARKER COLOR TO COLOR OF EDGE LINE.



STANDARD PLAN FOR CONCRETE BARRIER, SINGLE FACE

DEPARTMENT DIRECTOR BRADLEY C. WIEFERICH, PE SPECIAL DETAIL 01/07/2025
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SHEET 4 OF 4