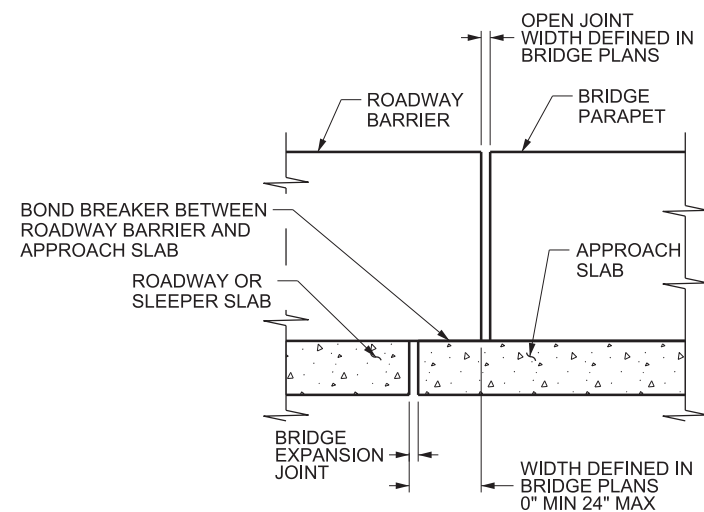
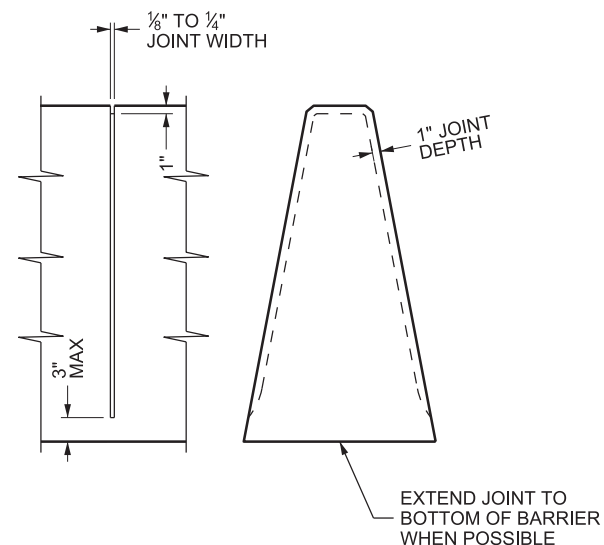


TYPE 1



TYPE 2

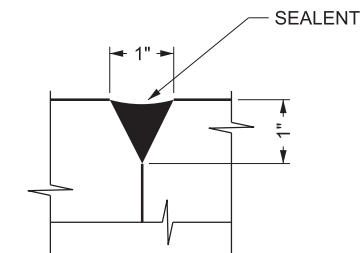
EXPANSION JOINT DETAILS



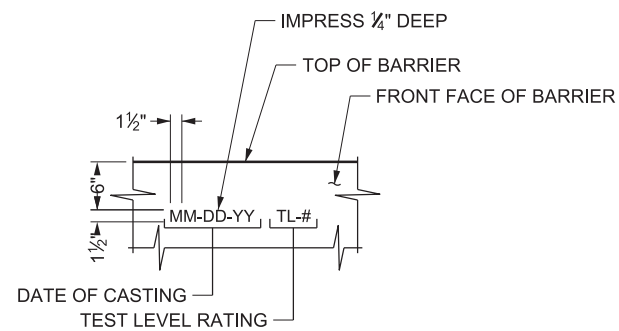
ELEVATION

END VIEW

SAW CUT CONTRACTION JOINT

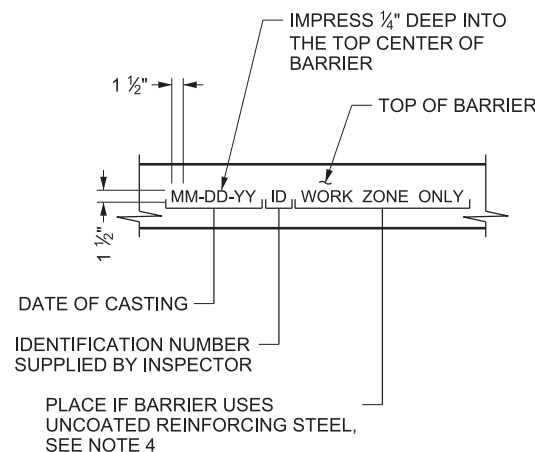


FORMED CONTRACTION JOINT



CAST-IN-PLACE BARRIER MARKING DETAIL

PLACE AT BEGINNING, END, AND AT 1,000-FT INTERVALS



PRECAST BARRIER MARKING DETAIL

GENERAL NOTES:

- PAVEMENT OVERLAY LIMITATIONS - EFFECTIVE BARRIER IS MEASURED FROM TOP OF PAVEMENT TO TOP OF BARRIER. DO NOT PLACE PAVEMENT OVERLAY THAT REDUCES EFFECTIVE BARRIER TO LESS THAN THE EFFECTIVE BARRIER LIMIT:
 - A. 32 INCH NEW JERSEY BARRIER: DO NOT OVERLAY MATERIAL PAST THE FIRST BREAK POINT OF BARRIER. FIRST BREAK POINT IS 3 INCHES ABOVE BOTTOM OF BARRIER. EFFECTIVE BARRIER LIMIT IS 29 INCHES.
 - B. 42 INCH CONSTANT SLOPE BARRIER: EFFECTIVE BARRIER LIMIT IS 36 INCHES
 - C. 54 INCH CONSTANT SLOPE BARRIER: EFFECTIVE BARRIER LIMIT IS 48 INCHES.
- USE CLASS AA(AE) CONCRETE.
- USE COATED DEFORMED CARBON STEEL REINFORCEMENT BARS CONFORMING TO AASHTO M 284 OR M 111 AND AASHTO M 31 GRADE 60, RESPECTIVELY.
- USE OF NON-COATED REINFORCING STEEL SCHEDULE ALLOWED FOR BARRIER SECTIONS CONSTRUCTED FOR USE IN WORK ZONE APPLICATIONS. MARK AS "WORK ZONE ONLY." SEE "PRECAST BARRIER MARKING DETAIL." DO NOT USE BARRIER MARKED AS "WORK ZONE ONLY" IN PERMANENT APPLICATIONS.
- CONSTRUCT BARRIER BY FIXED FORM OR SLIP FORM METHOD.
- PLACE A VERTICAL CONSTRUCTION JOINT AT END OF DAY'S POUR AND WHEN WORK IS HALTED FOR MORE THAN 2 HOURS.
- PROVIDE END SECTION AT BARRIER ENDS AND AT INTERRUPTIONS IN THE BARRIER INCLUDING EXPANSION JOINTS AND CRASH CUSHIONS.
- SEE STD DWG GW 6B FOR DELINEATION HARDWARE AND STD DWG GW 7A FOR DELINEATION SPACING.
- PROVIDE 1.5 INCH MINIMUM COVER TO REINFORCING STEEL UNLESS NOTED OTHERWISE. REINFORCING STEEL DIMENSIONS ARE OUT TO OUT AND INSIDE BEND RADII ARE SHOWN. BEND STIRRUPS OUT OF PLANE IF NECESSARY TO MEET MINIMUM CLEARANCE.
- LOCATE EXPANSION JOINTS IN CONCRETE BARRIER AT ALL TRANSITIONS AND APPROACH SLABS. USE A TYPE 1 EXPANSION JOINT AT TRANSITIONS. USE A TYPE 2 EXPANSION JOINT AT APPROACH SLABS.
- INSTALL ELECTRICAL/ATMS CONDUITS, JUNCTION BOXES, AND PULL BOXES AS REQUIRED PER CONTRACT DOCUMENTS.
- SAW OR CUT CONTRACTION JOINTS 1 INCH DEEP AT PAVEMENT TRANSVERSE JOINTS OR AT 15 FT MAX SPACING WHEN PLACED ON ASPHALT PAVEMENT. SAW OR CUT WITHIN 10 HOURS OF CONCRETE PLACEMENT. USE FORM CONTRACTION JOINT DETAIL IF PLACING BARRIER BY FORM METHOD.

LEGEND

- A.S. = AS SHOWN
- CIP = CAST-IN-PLACE
- DIA = DIAMETER
- EQ = EQUAL
- R = RADIUS
- SPA = SPACES

SUPPLEMENTAL DRAWING

REVISIONS		NO.	DATE	APPR.	REMARKS
1	08/29/19				
1 MOVED DESIGN ONLY NOTES TO RDM SHEETS.					

UTAH DEPARTMENT OF TRANSPORTATION		SALT LAKE CITY, UTAH	
STANDARD DRAWINGS FOR ROAD AND BRIDGE CONSTRUCTION			
RECOMMENDED FOR APPROVAL	DATE	DATE	DATE
	AUG. 29, 2019	AUG. 29, 2019	AUG. 29, 2019
CHAIRMAN STANDARDS COMMITTEE APPROVED			
DEPUTY DIRECTOR			

CONCRETE BARRIER GENERAL NOTES AND STANDARD DETAILS 1 OF 2	STANDARD DRAWING TITLE
	STD. DWG. NO. BA 1A1