

EXPANSION AND CONTROL JOINTS:

1. EXPANSION JOINTS AS SHOWN ON THE PLANS SHALL CONSIST OF A 1/2 INCH PREMOLDED EXPANSION JOINT WITH WHITE CAP OR BACKER ROD AND CAULK. THE PREMOLDED EXPANSION JOINT MATERIAL IS AN ASPHALT COATED FIBER EXPANSION JOINT, THE WHITE CAPE/BACKER IS A CLOSED BACKER ROD AND CAULK. WITHIN ROADWAY, THE CAULK SHALL BE A DOW CORNING 880 – SL SELF LEVELING SILICONE JOINT SEALANT OR APPROVED EQUAL. ALL OTHER LOCATIONS THE CAULK SHALL BE A SIKAFLEX 2C SL DEEP CHARCOAL OR APPROVED EQUAL. EXPANSION JOINTS (TRANSVERSE TO THE STREET CENTERLINE) SHALL BE CONSTRUCTED IN ALL CONCRETE SIDEWALKS, APPROACHES, DRIVEWAYS AT ALL CONSTRUCTION (COLD JOINTS) AND BETWEEN THE CONCRETE AND ANY EXISTING BUILDING. ALL JOINTS SHALL BE FILLED WITH THE PREMOLDED JOINT FILLER AS DESCRIBED ABOVE.
2. TRANSVERSE EXPANSION JOINTS 1/2 INCH WIDE SHALL BE CONSTRUCTED AT ALL SIDEWALK RETURNS OPPOSITE EXPANSION JOINTS IN ADJACENT CURB AND AT REGULAR INTERVALS NOT TO EXCEED 30 FEET. TRANSVERSE EXPANSION JOINTS SHALL ALSO BE CONSTRUCTED AT TRANSITION POINTS THAT WOULD NORMALLY CRACK DUE TO ANGLE POINTS OR SIMILAR OCCURRENCES. ISOLATION JOINTS SHALL BE INSTALLED AROUND ALL STRUCTURES.
3. SAWCUT JOINTS WILL BE REQUIRED BETWEEN EXPANSION JOINTS AS SPECIFIED:
 - A. FROM ALL ANGLE POINTS INCLUDING, BUT NOT LIMITED TO PULL BOXES, VAULTS, MANHOLES, PILLARS, DROP INLETS, STEEL INSERTS, STAIR WELLS, ETC., OR ANY ANGLE POINT FROM AN ADJOINING STRUCTURE.
 - B. SAW CUTS SHALL BE 1-1/4 INCH DEEP AND 1/8 INCH WIDE, PER DETAIL A BELOW. TRANSVERSE JOINTS AND LONGITUDINAL JOINTS SHALL HAVE 1/4" CHAMFERED EDGE. PRIOR TO CHAMFER EDGE CUT, CONCRETE SHALL BE ALLOWED TO CURE A MINIMUM OF 3 DAYS TO PREVENT "SPALDING" OF THE CHAMFER EDGE. DEVIATION OF CURE TIME SHALL BE APPROVED THE ENGINEER.
 - C. AREA BETWEEN SAWCUT AND EXPANSION (CONSTRUCTION) JOINTS SHALL BE SQUARE AND NOT TO EXCEED 100 SQUARE FEET.
4. WEAKENED PLANE JOINTS (TOOL JOINTS) AS SPECIFIED HEREINAFTER:
 - A. TOOL JOINTS SHALL MATCH THE DIMENSIONS OF SIDEWALK SCORE PATTERN, BE 1-1/4 INCH DEEP AND 1/4 INCH WIDE RADIUS AT THE TOP. ANY DEVIATIONS TO THESE REQUIREMENTS MUST BE APPROVED BY THE ENGINEER.
 - B. TOOL JOINTS SHALL BE LOCATED AT REGULAR INTERVALS NOT EXCEEDING 1.2 TIMES THE WIDTH AND NO MORE FREQUENTLY THAN 0.8 TIMES THE WIDTH. IN NO CASE SHALL REGULAR INTERVALS OF TOOL JOINTS IN EITHER DIRECTION EXCEED 10 FEET.



STANDARD DETAILS FOR PUBLIC WORKS CONSTRUCTION

EXPANSION AND CONTROL JOINTING
DECORATIVE COLORED CONCRETE
SIDEWALKS AND DRIVEWAYS

DRAWING No.

R-104G

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