



NOTES:  
FOR PAVEMENT CROWN SLOPE,  
THICKNESS - "T", LANE WIDTH - "W",  
SEE TYPICAL SECTIONS IN PLANS.

**STEEL FABRIC REINFORCEMENT:** STEEL FABRIC REINFORCEMENT SHALL CONSIST OF MEMBERS RIGIDLY ATTACHED AT ALL JOINTS OR POINTS OF INTERSECTION EXCEPT AS NOTED BELOW:(\*). LONGITUDINAL MEMBERS SHALL BE OF NO. 2 GAGE WIRE SPACED AT 6" ON CENTERS. TRAVERSE MEMBERS SHALL BE NO. 4 GAGE WIRE, SPACED AT 12" ON CENTERS. (WIRE REINFORCEMENT STEEL INSTITUTE DESIGNATION 6 X 12 - W5.5 X W4).

THE WIDTHS OF STEEL FABRIC SHEETS SHALL BE 4" LESS THAN THE WIDTH OF THE SLAB. THE NUMBER OF SHEETS ALLOWABLE BETWEEN CONTRACTION JOINTS, OR BETWEEN CONTRACTION AND EXPANSION JOINTS, SHALL NOT EXCEED 3.

ALL MEMBERS, LONGITUDINAL OR TRANSVERSE, SHALL BE SO CUT THAT THE PROJECTING ENDS WILL EXTEND NOT LESS THAN 1" NOR MORE THAN 11" FROM THE JOINTS OR POINTS OF INTERSECTION OF THE FABRIC MEMBERS.

WHEN IT IS NECESSARY TO LAP STEEL FABRIC REINFORCEMENT, THE MINIMUM AMOUNT OF LAP SHALL BE EQUIVALENT TO THE SPACING OF THE WIRES PARALLEL TO THE LAP.

OTHER TYPES OF MESH REINFORCEMENT MAY BE USED ON WRITTEN PERMISSION OF THE ENGINEER. THE WIDTH OF SHEETS AND OTHER GENERAL REQUIREMENTS, WHICH APPLY, SHALL BE THE SAME AS FOR STEEL FABRIC REINFORCEMENT.

DOWELS AT CONTRACTION JOINTS MAY BE PLACED IN THE FULL THICKNESS OF PAVEMENT BY MECHANICAL DEVICE IN LIEU OF DOWEL BASKETS.

\* HINGED STEEL REINFORCEMENT MAY BE USED IN LIEU OF RIGID SHEETS.

**EXPANSION AND CONTRACTION JOINTS:** CONSTRUCTION JOINTS IN BOTH PLAIN AND REINFORCED PAVEMENT SHALL HAVE THE SAME LOAD TRANSFER DEVICES AS NOTED FOR CONTRACTION JOINTS IN REINFORCED PAVEMENT.

CONTRACTION JOINTS OF THE TYPE SPECIFIED ON SHEET 2 SHALL BE SPACED AT 30 FOOT INTERVALS FOR REINFORCED CONCRETE PAVEMENT AND AT 15 FOOT INTERVALS FOR PLAIN CONCRETE PAVEMENT UNLESS OTHERWISE NOTED ON JOINT LAYOUTS IN PLANS.

ADJACENT TO RIGID STRUCTURES: CONCRETE STREET INTERSECTIONS, OR R.R. GRADE X-INGS, BRIDGE APPROACH EXPANSION JOINTS AND/OR TRANSVERSE EXPANSION JOINTS ARE TO BE PLACED AS SHOWN ON SHEET 2 OF 3. OTHER EXPANSION JOINTS ARE TO BE USED AS SPECIFIED ON PLANS.

IF ASPHALT CONCRETE IS TO BE APPLIED, ALL TRANSVERSE JOINTS ARE TO BE SAWED, BUT NOT WIDENED, EXCEPT AT THE END OF A DAYS RUN AND WHEN INTERRUPTIONS OCCUR IN THE CONCRETE OPERATIONS OF MORE THAN 30 MINUTES DURATION. IN THESE CASES, BUTT CONSTRUCTION JOINTS ARE TO BE USED.

PAVED SHOULDERS: WHEN ASPHALT CONCRETE PAVED SHOULDERS ARE TO BE USED ADJACENT TO EITHER PLAIN OR REINFORCED CEMENT CONCRETE PAVEMENT, THE EDGE OF THE CONCRETE SLAB IS TO BE PAINTED, TO ITS FULL DEPTH, WITH ASPHALTIC MATERIAL EITHER CRS-2 OR RC-250 AS DIRECTED BY THE ENGINEER.

**LONGITUDINAL JOINTS:** THE CONTRACTOR WILL BE PERMITTED TO CONSTRUCT THE CONCRETE PAVEMENT IN DUAL LANES, SIMULTANEOUSLY, WHERE THE SUM OF THE LANE WIDTHS DOES NOT EXCEED 25 FEET, PROVIDED A SATISFACTORY AND TRUE LONGITUDINAL DUMMY GROOVE JOINT IS OBTAINED. THIS IS TO BE DONE BY THE USE OF AN APPROVED FORMING STRIP OR BY SAWING, AT THE CONTRACTOR'S OPTION. WHERE LANES ARE POURED SEPARATELY, THE HOOK BOLTS OR TIE BOLTS SHALL BE IN ACCORDANCE WITH THE DETAILS SHOWN OF SHEET 2. WHERE BOTH LANES ARE POURED SIMULTANEOUSLY, TIE BARS SHALL BE AS DETAILED ON SHEET 2. THE MAXIMUM WIDTH OF PAVEMENT THAT MAY BE CONSTRUCTED WITHOUT A LONGITUDINAL JOINT IS 14'-0". FOR WIDTHS GREATER THAN 14 FEET THE LONGITUDINAL JOINT SHALL BE IN THE CENTER. NO OTHER DEVIATIONS ARE TO BE ALLOWED UNLESS SHOWN ON JOINT LAYOUT IN PLANS, OR DIRECTED BY THE ENGINEER.

**METHOD OF FINISHING AT EXPANSION JOINTS:** A PROTECTIVE CAP OR INSTALLATION SHIELD OF 1/16" STEEL SHALL BE PLACED OVER THE TOP OF THE EXPANSION JOINT FILLER. THE FINISHING MACHINE SHALL THEN BE ALLOWED TO PASS OVER THE JOINT, LEAVING IT AS SHOWN IN FIGURE 1, SHEET 2. PRIOR TO THE INITIAL SET THE SHIELD SHALL BE REMOVED AND A RECTANGULAR BAR 1/4" LESS IN WIDTH THAN THE PREFORMED FILLER PLACED ON TOP OF THE FILLER, THE CONCRETE SQUEEGE FINISHED ADJACENT TO IT AS SHOWN IN FIGURE 2, AND THE EDGES ROUNDED WITH HAND TOOLS, USING THE BAR AS A GUIDE. THE BAR SHALL THEN BE WITHDRAWN, LEAVING A JOINT GAP OF THE SAME WIDTH AS THE FILLER.

SPECIFICATION REFERENCE

316

# PLAIN AND REINFORCED CONCRETE PAVEMENT (SHOWING REINFORCEMENT, LONGITUDINAL AND TRANSVERSE JOINTS)

VIRGINIA DEPARTMENT OF TRANSPORTATION

VDOT

ROAD AND BRIDGE STANDARDS

REVISION DATE

SHEET 1 OF 5

301.01