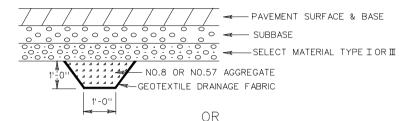
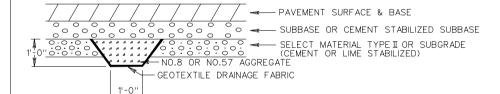


COMBINATION UNDERDRAIN CD-2 ON FILLS CENTER LINE SECTION (WITH TYPE 1 SELECT MATERIAL)

TRENCH PLACEMENT

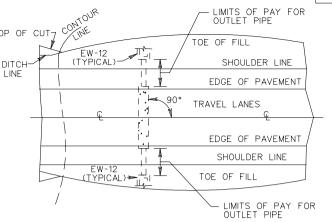




APPROACH SLAB PAVEMENT CD-2 SUBBASE AGGREGATE BASE MATERIAL TYPE I SIZE NO. 21B (6" MIN. DEPTH)

PLACEMENT OF CD-2 UNDERDRAIN AT BRIDGE APPROACH SLABS

701



PLAN VIEW SHOWING PLACEMENT OF CD-2 UNDERDRAIN

NON-PERFORATED OUTLET PIPE

TYPE OF PIPE	CRUSHING STRENGTH					
	×w.⊤.	4" NOM. DIAMETER	₩.T.	6" NOM. DIAMETER		
SMOOTH WALL PVC	.103		0.153			
SMOOTH WALL PE		70 PSI ***		70 PSI ***		

* WALL THICKNESS (MIN) - INCHES

*** TESTED ACCORDING TO ASTM D-2412 AT 5% DEFLECTION.

GENERAL NOTES

- 1. TRENCH SHALL BE FILLED WITH AGGREGATE AND THROUGHLY HAND TAMPED TO INSURE COMPACTNESS.
- 2. OUTLET PIPE SHALL BEGIN AT THE EDGE OF THE TRAVEL LANE PAVEMENT AND SHALL BE PLACED ON A GRADE PARALLEL TO THE SHOULDER SLOPE 2 % MIN. (3% DESIRABLE) GRADE.
- 3. ON CURB AND GUTTER SECTIONS, WHERE IT IS IMPOSSIBLE TO OTHERWISE PROVIDE OUTLETS FOR UNDERDRAINS, THEY ARE TO BE LOCATED SO AS TO DRAIN INTO DROP INLETS OR MANHOLES.
- 4. ON SUPERELEVATED SECTIONS, TRENCH IS TO BE UNDER ENTIRE PAVEMENT AREA WITH OUTLET PIPE ON LOW SIDE ONLY.
- 5. INVERT ELEVATION AT OUTLET END OF OUTLET PIPE TO BE A MINIMUM OF 1'-0" ABOVE INVERT ELEVATION OF RECEIVING DRAINAGE DITCH OR STRUCTURE.
- 6. ALL CONNECTIONS (ELBOWS, WYES, ETC.) WITHIN PAY LIMITS FOR OUTLET PIPE ARE TO BE OF THE SAME CRUSHING STRENGTH AS THE OUTLET PIPE.
- 7. OUTLET PIPE TO BE SECURELY CONNECTED TO EW-120R OTHER DRAINAGE STRUCTURE.

SPECIFICATION REFERENCE		STANDA	RD CO	MBIN.	ation u	NDERDRAIN
232 501	(AT	GRADE	SAGS	AND	BRIDGE	APPROACHES)

VIRGINIA DEPARTMENT OF TRANSPORTATION

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