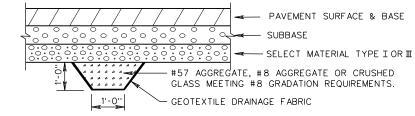
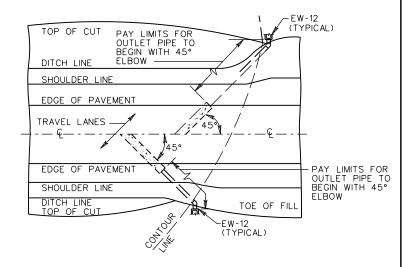


CROSSDRAIN CD-1 AT LOWER END OF CUTS CENTER LINE SECTION

(WITH TYPE 1 SELECT MATERIAL)

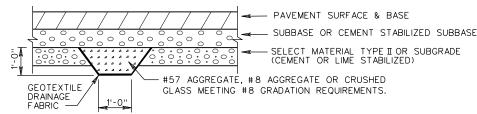
TRENCH PLACEMENT





PLAN VIEW (PLACEMENT OF CD-1 CROSSDRAIN)

OR



GENERAL NOTES

- UNLESS SPECIFICALLY INDICATED, CROSSDRAIN WILL NOT BE LOCATED AT THIS POINT WHEN BOTH SUBBASE AND SUBGRADE ARE STABILIZED.
- 2. TRENCH SHALL BE FILLED WITH AGGREGATE AND THROUGHLY HAND TAMPED TO INSURE COMPACTNESS.
- 3. 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.
- 4. ON CURB AND GUTTER SECTIONS, WHERE IT IS IMPOSSIBLE TO OTHERWISE PROVIDE OUTLETS FOR CROSSDRAINS, THEY ARE TO BE LOCATED SO AS TO DRAIN INTO DROP INLETS OR MANHOLES.
- 5. ON SUPERELEVATED SECTIONS, TRENCH IS TO BE UNDER ENTIRE PAVEMENT AREA WITH OUTLET PIPE ON LOW SIDE ONLY.
- 6. INVERT ELEVATION AT OUTLET END OF OUTLET PIPE TO BE A MINIMUM OF 1'-0" ABOVE INVERT ELEVATION OF RECEIVING DRAINAGE DITCH OR STRUCTURE.
- 7. ALL CONNECTIONS (ELBOWS, WYES, ETC.) WITHIN PAY LIMITS FOR OUTLET PIPE ARE TO BE OF THE SAME CRUSHING STRENGTH AS THE OUTLET PIPE.
- 8. OUTLET PIPE TO BE SECURELY CONNECTED TO EW-12OR OTHER DRAINAGE STRUCTURE.

NON-PERFORATED OUTLET PIPE

TYDE	OF PIPE	CRUSHING STRENGTH			
I TIPE		×w.⊤.	4" NOM. DIAMETER	×w.⊤.	6" NOM. DIAMETER
SMOOTH	WALL PVC	.103		0.153	
SMOOTH	WALL PE		70 PSI XXX		70 PSI XXX

* WALL THICKNESS (MIN) - INCHES

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

ROAD AND BRIDGE STANDARDS SHEET 1 OF 1 REVISION DATE 108.04 07/16

STANDARD CROSSDRAIN (AT LOWER END OF CUTS)

VIRGINIA DEPARTMENT OF TRANSPORTATION

SPECIFICATION REFERENCE
232 501 701