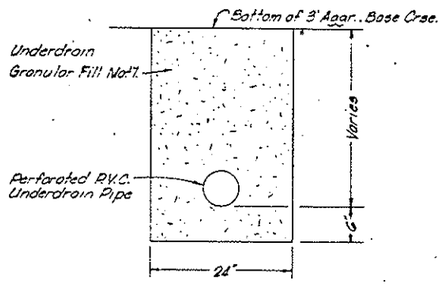
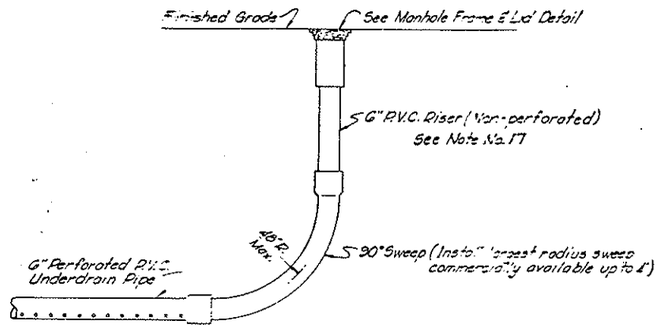
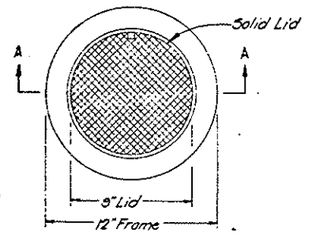
FHWA REGION	STATE	FED. AID PROJ. NO.	SHEET NO.
8	N.D.	MG-1-010(05)	15



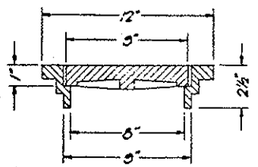
UNDERDRAIN BEDDING DETAIL



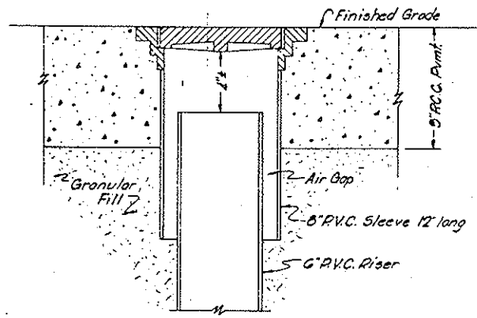
TYPICAL UNDERDRAIN CLEAN-OUT RISER



MANHOLE FRAME & LID

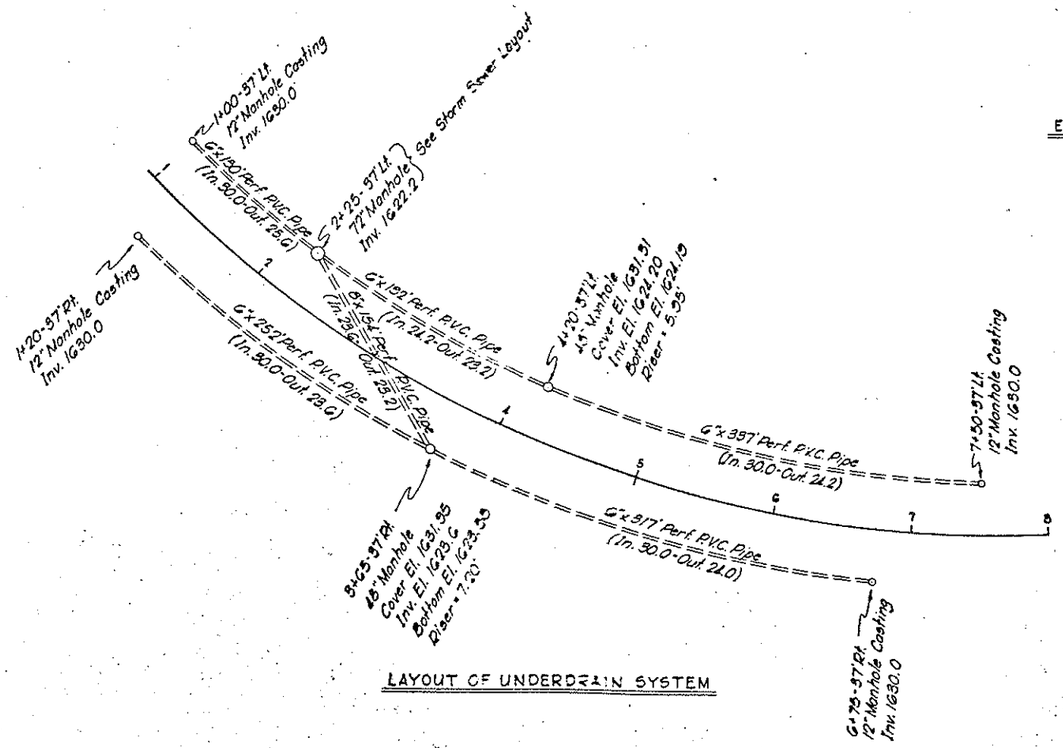


SECTION A-A

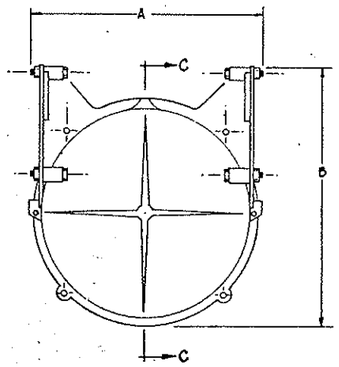


ELEVATION - TYPICAL ROADWAY INSTALLATION

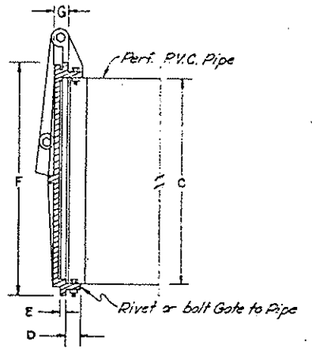
NOTE:
Cost of Sweep, Manhole Frame & Lid and Flap Gates to be included in price bid for "Perf. P.V.C. Pipe."



LAYOUT OF UNDERDRAIN SYSTEM



FRONT VIEW



SECTION C-C

GATE SIZE	A	B	C	D	E	F	G
6" Dia.	8⅛	8⅝	6 3/16	⅞	¼	7¼	7/16
8" Dia.	11¼	11⅝	8¼	1⅛	⅜	10	1⅜

All dimensions in inches.

DETAIL OF FLAP GATE

Flap Gates to be installed on ends of Perf. P.V.C. Pipes in Manhole Sta. 2+25-37 Lt.