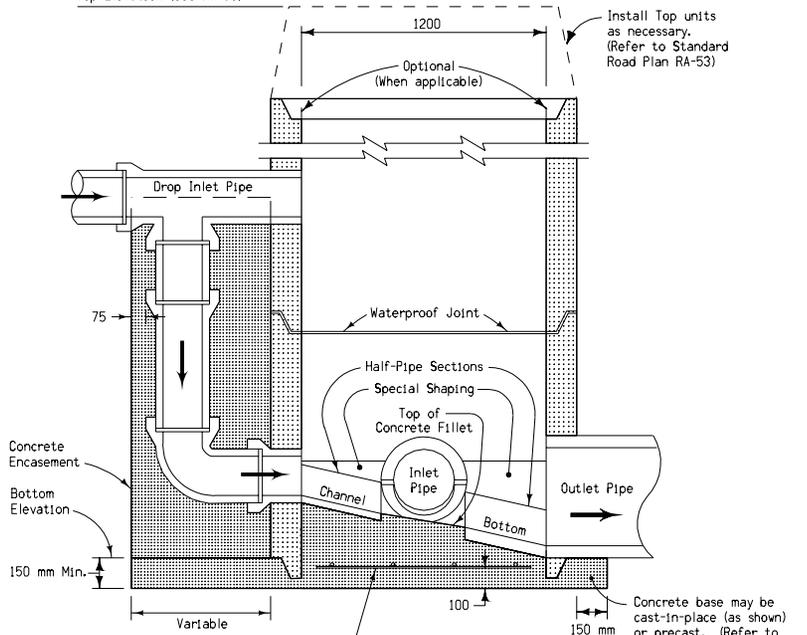
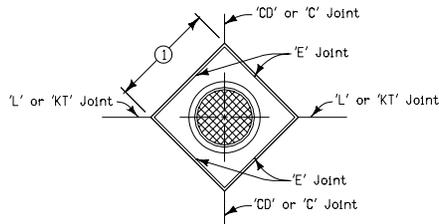


TYPICAL PLAN

Top Elevation (See RA-53)

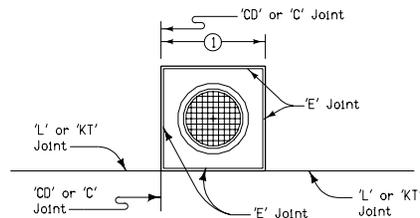


TYPICAL SECTION



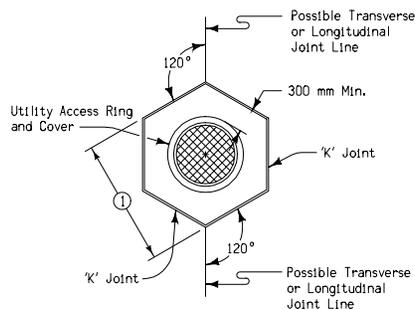
BOX-OUT DETAIL IN PCC PAVEMENT

Where the utility access is intersected by the longitudinal and transverse joints.



BOX-OUT DETAIL IN PCC PAVEMENT

Where the utility access is offset from the longitudinal and transverse joints



BOX-OUT DETAIL IN PCC PAVEMENT

Where no joint lines are present or at a single joint line

GENERAL NOTES:

This detail illustrates the construction and installation of precast circular concrete sanitary sewer utility access units.

Inlet pipes shall not protrude unnecessarily into utility access well and outlet pipe shall not project past inside face of sidewall.

A concrete fillet shall be placed in the bottom of the utility access, approximately as indicated, using half-pipe sections bedded in concrete to form the flow line through the utility access. These half-pipe sections shall be accurately joined to the sections built into the walls of the utility access. Top surface of the fillet shall slope at a rate of approximately 12:1 (Horizontal: Vertical) toward the top of half-pipe sections.

Unless specifically approved otherwise by the Engineer, the length of any section which has a notch or hole for sewer pipe shall be at least twice the greatest dimension of notch or hole measured along the centerline of the pipe.

Sewer pipes Indicated hereon are typical only. Actual construction shall require installation and adjustment to existing sewer lines as detailed on project plans.

The Contractor shall install accessory units (spacer, utility access top, casting, etc.) as necessary to obtain utility access elevations as detailed on project plans. Refer to Standard Road Plan RA-53 for details of accessory units and to Standard Road RA-54 or RA-55 for details of castings required. When utility access is subject to traffic, use RA-54 cover; when not subject to traffic, use RA-55 cover.

Price bid for "Sanitary Sewer Drop Utility Access (Precast)" shall be considered full compensation for construction of the utility access, including Drop Inlet Pipe and Concrete Encasement, as detailed hereon and to the depth required by detail project plans (including top units as necessary). Backfilling of the necessary excavation shall be done at the direction of the Engineer.

① 1.4 meter minimum, 1.5 meter maximum.

All dimensions given in millimeters unless noted.

<b>METRIC VERSION</b>	<b>M</b> <b>Iowa Department of Transportation</b> Highway Division	
	<b>STANDARD ROAD PLAN</b>	<b>RA-52</b>
	REVISION: Require Concrete Fillet.	REVISION NO. 4
	<i>William J. Stan</i> APPROVED BY DESIGN METHODS ENGINEER	REVISION DATE 04-15-03
<b>SANITARY SEWER DROP UTILITY ACCESS (PRECAST)</b>		