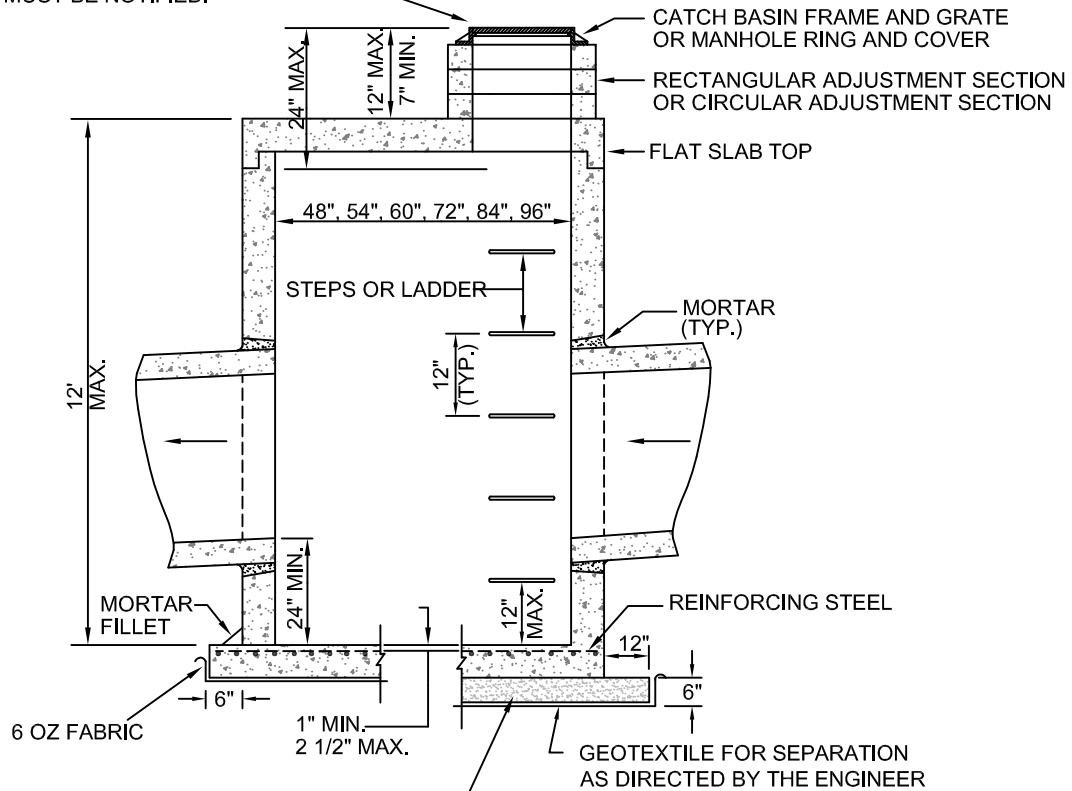


FOR MANHOLE FRAMES USE STANDARD SD-150. FOR CLEARANCE LESS THAN 7" CITY ENGINEER MUST BE NOTIFIED.



**SEPARATE CAST IN PLACE BASE**

**PRECAST BASE WITH INTEGRAL RISER**

6" MIN. CSBC TOP  
COMPACTED TO 95%

**SEPARATE PRECAST BASE**

**NOTES:**

1. NO STEPS ARE REQUIRED WHEN HEIGHT IS 4' OR LESS.
2. THE BOTTOM OF THE PRECAST CATCH BASIN MAY BE ROUNDED OR SLOPED TO FACILITATE CLEANING.
3. FRAME AND GRATE MAY BE INSTALLED WITH FLANGE DOWN OR CAST INTO ADJUSTMENT SECTION.
4. KNOCKOUTS SHALL HAVE A WALL THICKNESS OF 2" MINIMUM TO 2 1/2" MAXIMUM. PROVIDE A 1 1/2" MINIMUM GAP BETWEEN THE KNOCKOUT WALL AND THE OUTSIDE OF THE PIPE. AFTER THE PIPE IS INSTALLED FILL THE GAP WITH JOINT MORTAR.

**PIPE ALLOWANCES**

CATCH BASIN DIAMETER	CONCRETE	ALL METAL	CPSSP ①	SOLID WALL PVC	PROFILE WALL PVC
48"	24"	30"	24"	27"	30"
54"	30"	36"	30"	27"	36"
60"	36"	42"	36"	36"	42"
72"	42"	54"	42"	36"	48"
84"	54"	60"	54"	36"	48"
96"	60"	72"	60"	36"	48"

① CORRUGATED POLYETHYLENE STORM SEWER PIPE (STD. SPEC. 9-05.20)

**CATCH BASIN DIMENSION TABLE**

DIA.	WALL THICKNESS	BASE THICKNESS	MAXIMUM KNOCKOUT SIZE	MINIMUM DISTANCE BETWEEN KNOCKOUTS	BASE REINFORCING STEEL IN SQ IN / FT IN EACH DIRECTION	
					INTEGRAL BASE	SEPARATE BASE
48"	4"	6"	36"	8"	0.15	0.23
54"	4 1/2"	8"	42"	8"	0.19	0.19
60"	5"	8"	48"	8"	0.25	0.25
72"	6"	8"	60"	12"	0.35	0.35
84"	8"	12"	72"	12"	0.29	0.39
96"	8"	12"	84"	12"	0.39	0.39



**LARGE DIAMETER CATCH BASIN**

STANDARD PLAN:  
**SD - 040**  
DATE: **FEB. 2007**

CITY ENGINEER APPROVAL:  
Longview: **C.B.**  
Kelso: **S.Z.**