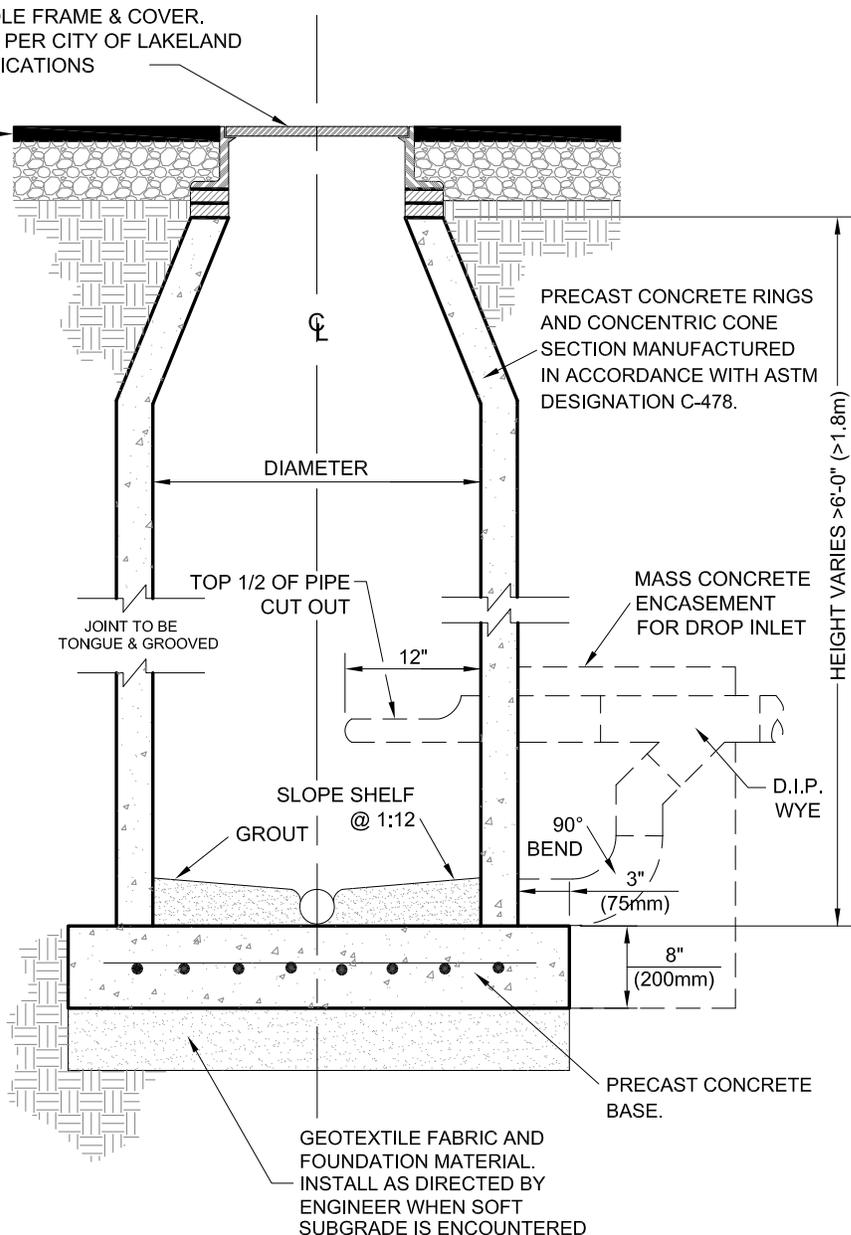


MANHOLE FRAME & COVER.
SET AS PER CITY OF LAKE-
LAND SPECIFICATIONS

ASPHALT PAVING

NOTES:

1. FLOOR TROUGHS ARE NEEDED FOR ALL INCOMING SEWERS. A LARGER DIA. MANHOLE MAY BE NEEDED IN ORDER TO PROPERLY CONSTRUCT THE TROUGHS WHEN THE INCOMING SEWER INVERTS ARE SUBSTANTIALLY HIGHER THAN THE OUTGOING SEWER INVERT. PROVIDE A MINIMUM OF .1' (30mm) DROP FROM INLET TO OUTLET. WHENEVER A SMALLER SEWER JOINS A LARGER SEWER THE INVERT OF THE SMALLER SEWER SHALL BE ABOVE THE INVERT OF THE LARGER SEWER THE AMOUNT NECESSARY TO PLACE THE .8 DEPTH OF BOTH SEWERS AT THE SAME ELEVATION.
2. 4'-0" (1.2m) DIA. MANHOLES MAY BE USED FOR PIPES UP TO 24" (600mm) DIA.
3. 5'-0" (1.5m) MANHOLES MAY BE USED FOR PIPES 27" (675mm) DIA.
4. APPROVED STRAIGHT MANHOLE SECTION WITH FLAT SLAB COVER ARE REQUIRED FOR MANHOLES 6'-0" (1.8m) OR LESS IN DEPTH.
5. NO MANHOLE STEPS ALLOWED.
6. MANHOLES WITH THE BASE POURED MONOLITHICALLY WITH THE BOTTOM BARREL ARE ALSO ACCEPTABLE.
7. SEAL JOINTS WATER TIGHT WITH APPROVED MATERIAL. GROUT HOISTING HOLES WATER TIGHT WITH NONMETALLIC, NON-SHRINK GROUT.
8. INVERTS SHALL BE U-SHAPED TO THE I.D. PIPE DIA. POINT (PIPE CROWN).
9. THE ENGINEER SHALL DETERMINE THE MANHOLE SIZE BASED ON THE ANGLE, NUMBER AND SIZE OF PIPE PENETRATIONS. THE MINIMUM DISTANCE BETWEEN KNOCKOUTS IS 12" (300mm).
10. THE UPPER PIPE AT DROP INLETS SHALL EXTEND INTO THE MANHOLE 12" (300mm) WITH THE TOP HALF CUT OUT.
11. ALL MANHOLES AT DOWNSTREAM END OF SEWER FORCE MAIN SHALL RECEIVE AN INTERIOR COATING PER CITY OF LAKE-
LAND SPECIFICATIONS.
12. ALL MANHOLES SHALL HAVE ASPHALTIC BLACK COATING APPLIED BY BRUSH OR LOW PRESSURE SPRAYER.
13. PROVIDE BOOT AROUND PIPE.



STANDARD SANITARY SEWER MANHOLE DETAIL

(FOR MANHOLE DEPTH >6' BASE TO LID)

NOT TO SCALE

<i>CITY OF LAKE- LAND ENGINEERING DIVISION</i>		
STANDARD SANITARY SEWER MANHOLE DETAIL FOR MANHOLE DEPTH >6' BASE TO LID		
REV.	DESCRIPTION	DATE
1	ORIGINAL ISSUE	8/2008