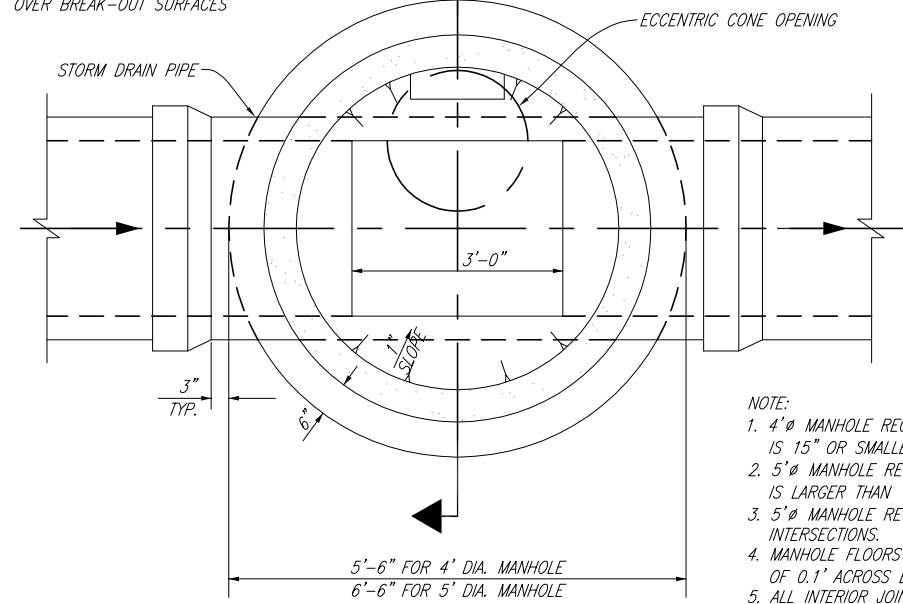
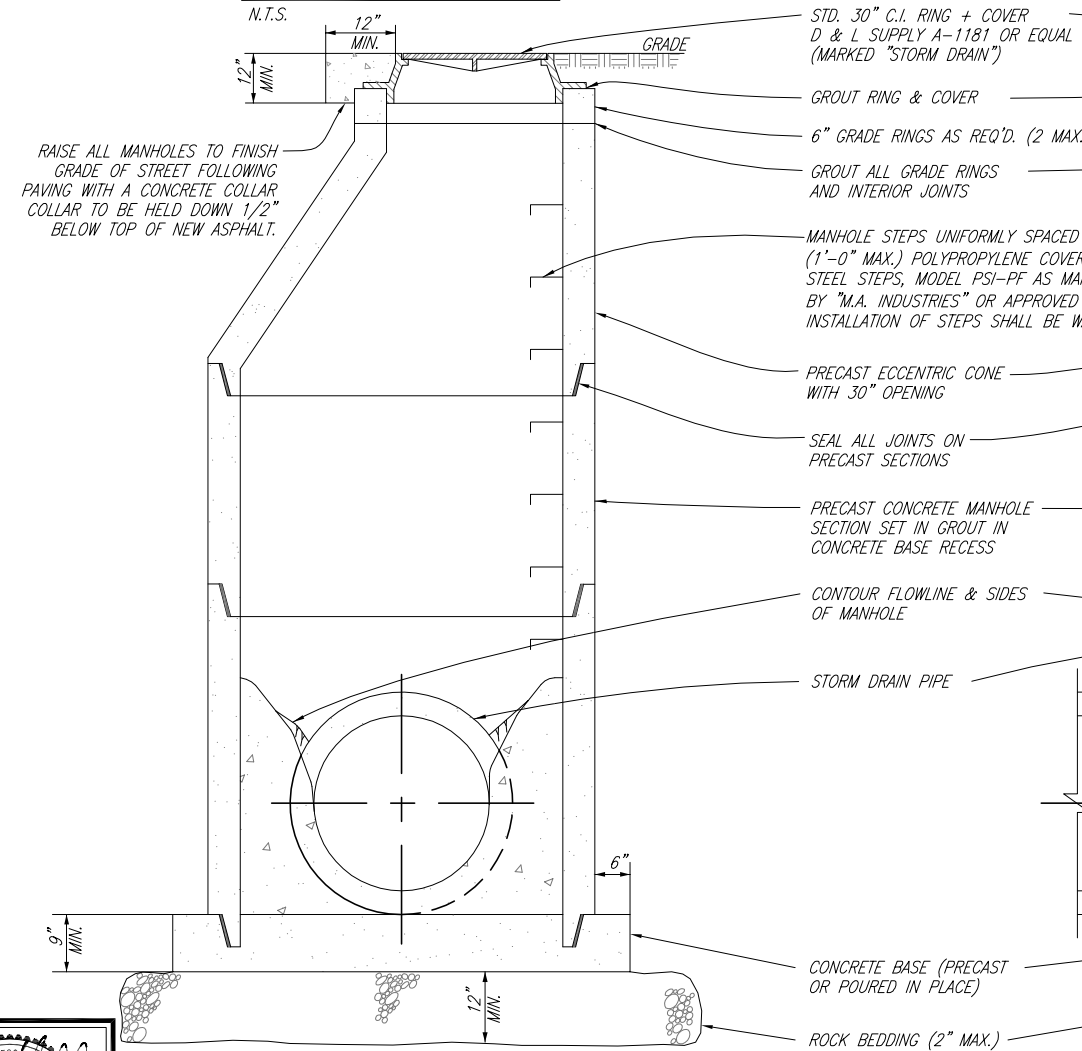


OPENING IN PIPE SCORED BY MFR. BREAKOUT OR SAW CUT IN FIELD AT LOCATIONS. CUT BACK REINFORCING MESH AND GROUT (NON-SHRINK) OVER BREAK-OUT SURFACES

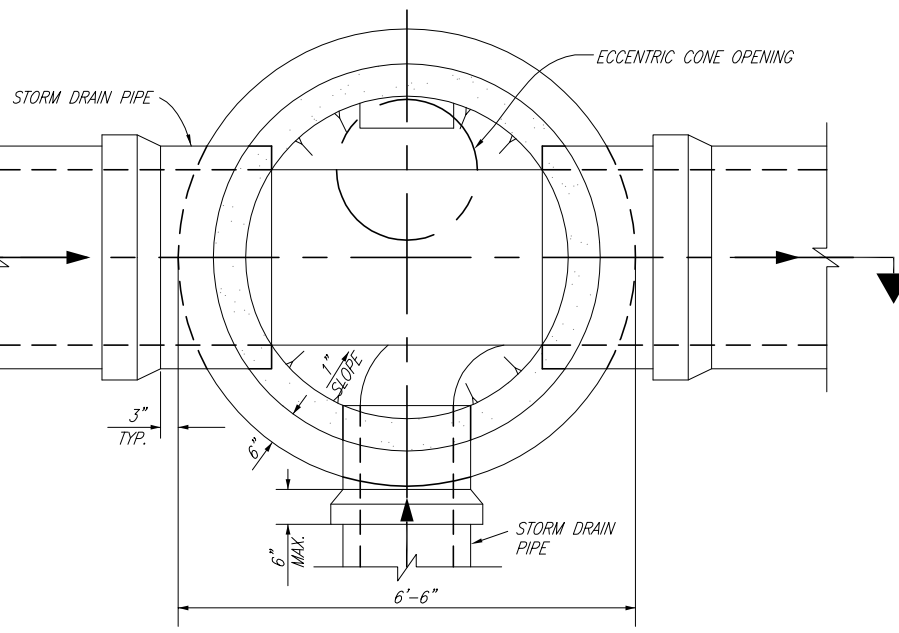


- NOTE:
- 4' MANHOLE REQUIRED WHERE LINE SIZE IS 15" OR SMALLER.
 - 5' MANHOLE REQUIRED WHERE LINE SIZE IS LARGER THAN 15".
 - 5' MANHOLE REQUIRED AT ALL PIPE INTERSECTIONS.
 - MANHOLE FLOORS SHALL BE SLOPED A MINIMUM OF 0.1' ACROSS BASE IN DIRECTION OF FLOW.
 - ALL INTERIOR JOINTS SHALL BE SMOOTH AND EVENLY GROUTED WITH NON-SHRINK GROUT MIX.

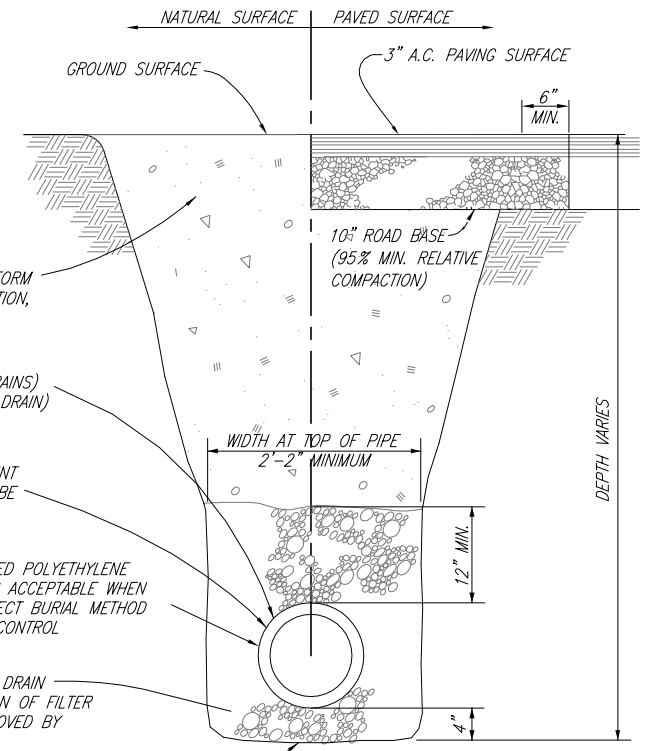
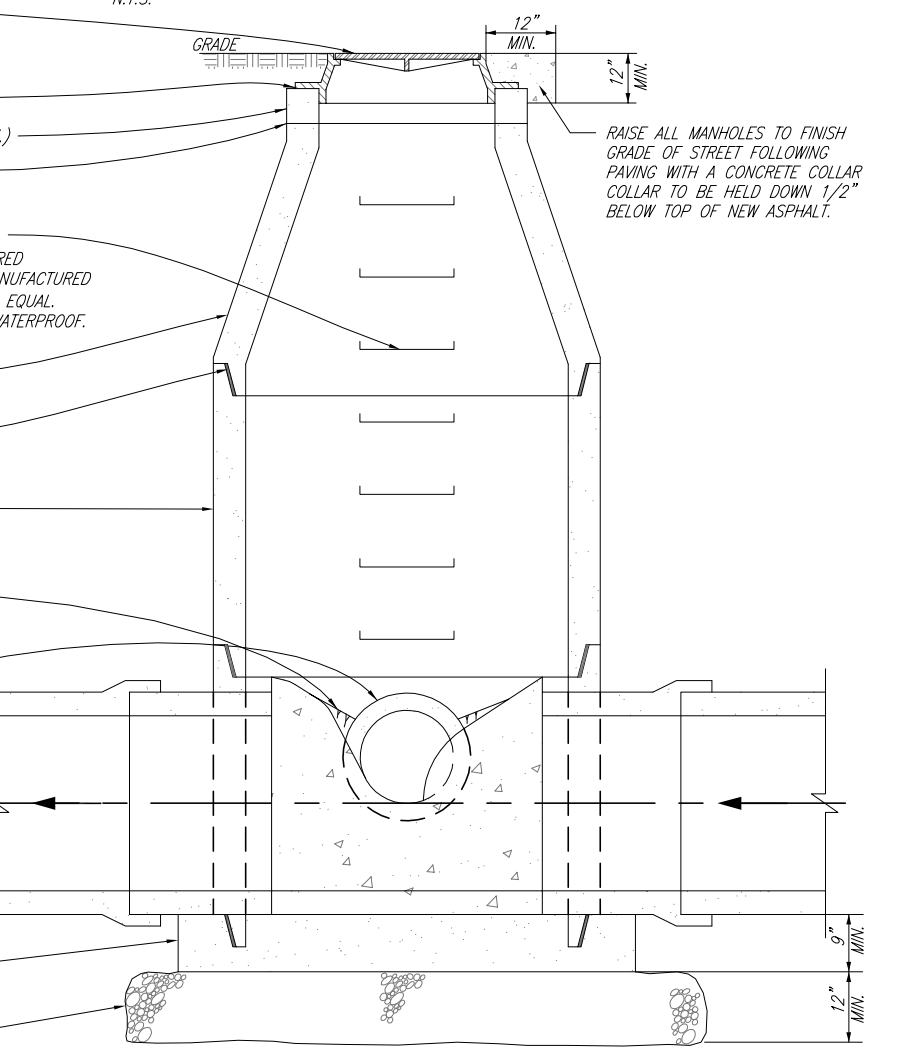
TYPICAL LINE MANHOLE



TYPICAL 5' DIAMETER JUNCTION MANHOLE



N.T.S.



TRENCH BACKFILL TO CONFORM WITH TYPICAL TRENCH SECTION, SEE SHEET 9

4" MIN DIA. (LATERAL DRAINS)
8" MIN. DIA. (MAIN LINE DRAIN)

PERFORATED OR OPEN JOINT DRAIN PIPE (P.V.C. MUST BE GREEN IN COLOR)

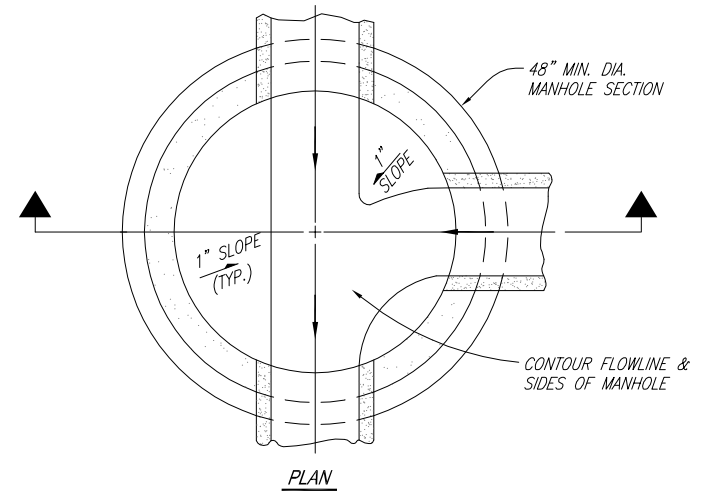
NOTE: SLOTTED CORRUGATED POLYETHYLENE DRAINAGE TUBING IS ACCEPTABLE WHEN INSTALLED WITH DIRECT BURIAL METHOD AND LASER GRADE CONTROL

GRAVEL BACKFILL FOR DRAIN ENVELOPE - GRADATION OF FILTER MATERIAL TO BE APPROVED BY THE CITY ENGINEER

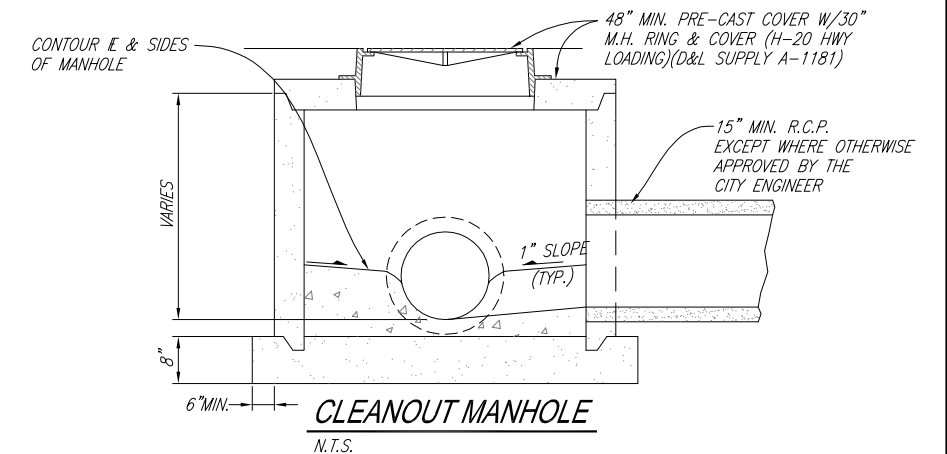
OVER EXCAVATE PIPE TRENCH MIN. 4" GRAVEL

TYPICAL LAND DRAIN PIPE SECTION

N.T.S.



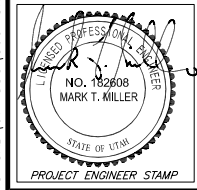
PLAN



CLEANOUT MANHOLE

N.T.S.

WC-CAD107-SOC1800-CITY-STNDS-PUBLIC-WORKS-DWG\ISO-STD-14.DWG



WC WASATCH CIVIL
Consulting Engineering
5320 SOUTH 1950 WEST, SUITE 1
ROY CITY, UT 84067 (801) 775-9191

| REV. | DATE | APPR. |
|------|------|-------|
| | | |
| | | |
| | | |

DESIGNED M.T.M. DATE JAN. 23, 2004
DRAWN C.C.S. SCALE: NOT TO SCALE
CHECKED M.T.M.

SOUTH OGDEN CITY CORPORATION

PUBLIC WORKS STANDARDS
STORM DRAIN MANHOLE & SUBSURFACE DRAINAGE DETAILS