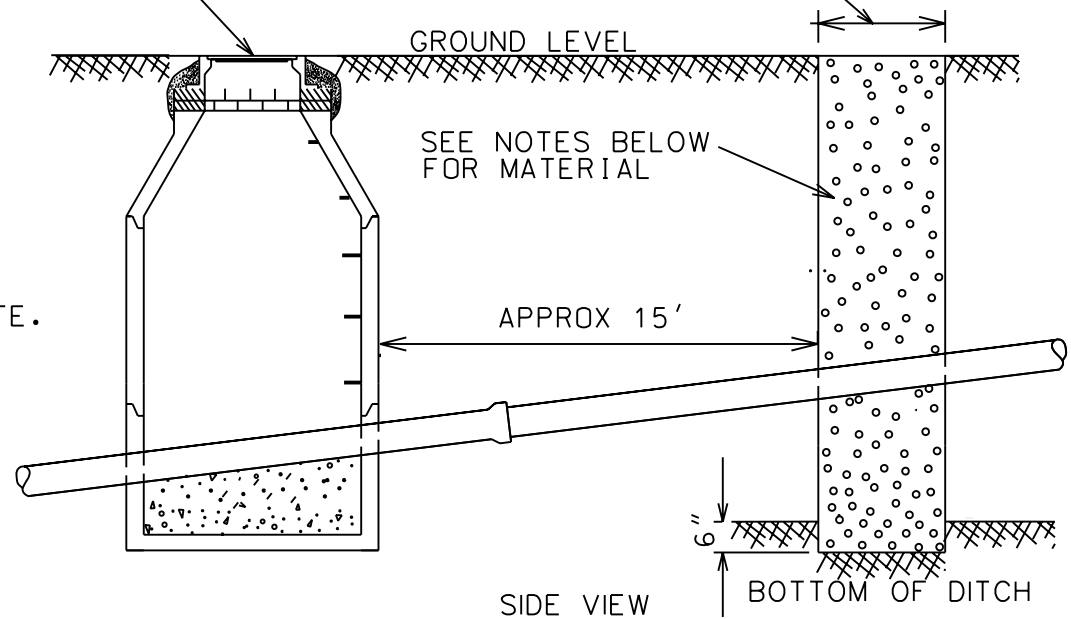
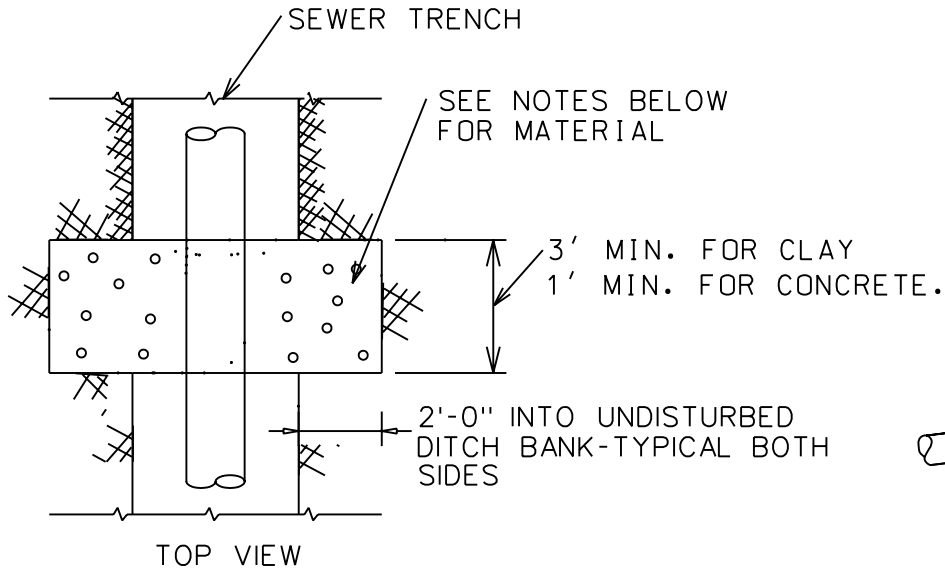


ALL MANHOLES SHALL HAVE A MINIMUM OF 24" CLEAR OPENING THROUGH FRAME AND MANHOLE CONE.

3' MIN. FOR CLAY
1' MIN. FOR CONCRETE.



NOTE:

Check dams shall be installed in the bedding and backfill of all new or replaced sewer lines to limit the drainage area subject to the french drain effect of gravel bedding. Major rehabilitation projects should also include check dams in the design. Dams shall consist of compacted clay bedding and backfill at least three (3) feet thick to the top of the trench and cut into the walls of the trench two (2) feet. Alternatively, concrete may be used, keyed into the trench walls. Dams shall be placed no more than 500 feet apart. The preferred location is upstream of each manhole. All stream crossings will include check dams on both sides of the stream crossing.

TYPICAL CHECK DAM FOR SEWER LINE
N.T.S.