

SEWER COLLECTION MATERIALS

STANDARD BOLT DOWN TYPE RING & COVER
(To be used on trunklines, areas of flooring, or as specified)
5/8" stainless hex cap screws
Acceptable Brands:
Boss & Hayes VRM-30 Watertight or approved equal

STANDARD 400 LB RING & LID
(To be used at all times)
Pattern #400-30D
Acceptable Brands:
Boss & Hayes VRM-30 or approved equal

STANDARD 400 LB RING EXTENSION
Pattern #400-30
3" Rise Only
Acceptable Brands:
Boss & Hayes

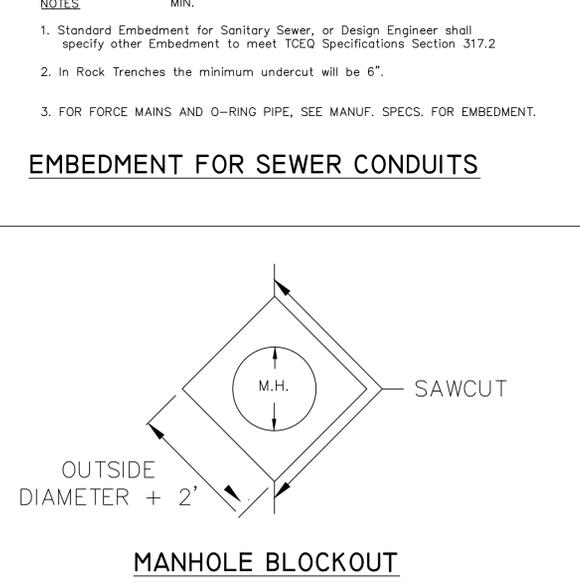
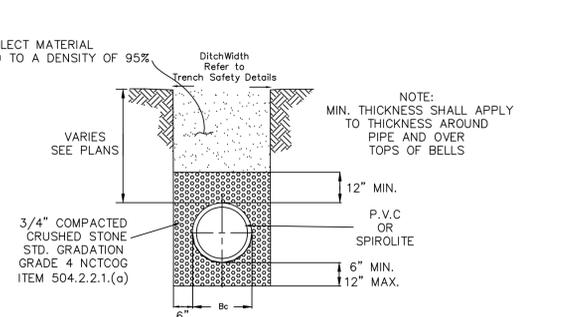
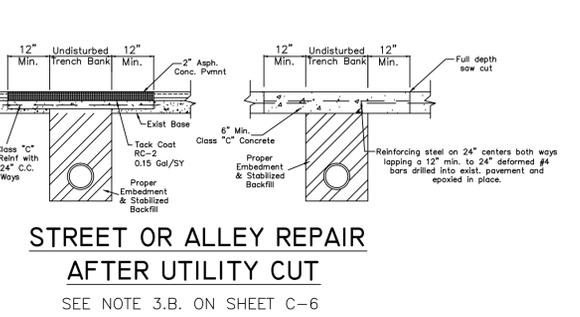
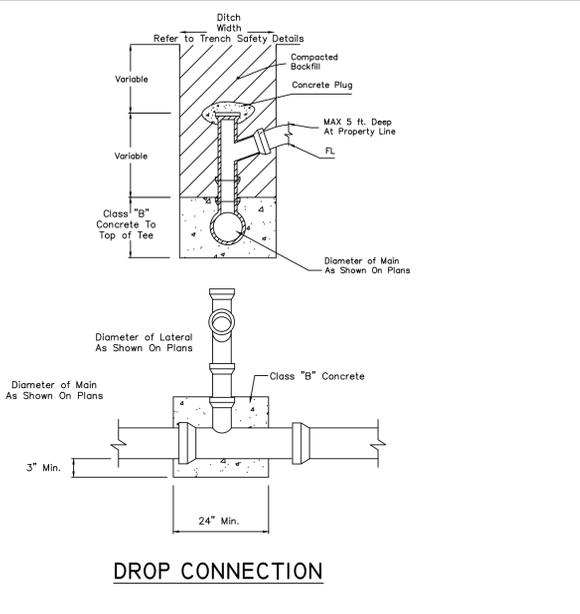
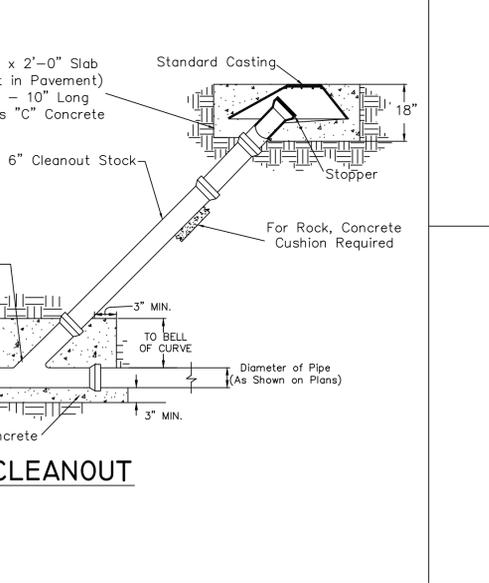
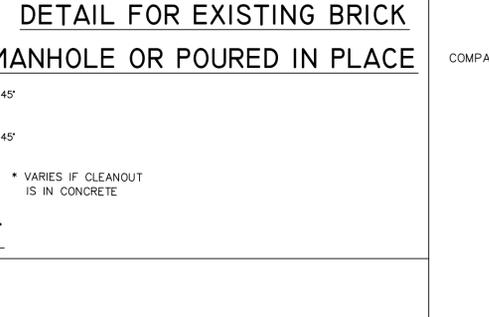
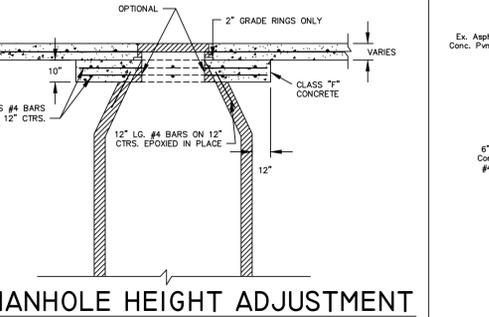
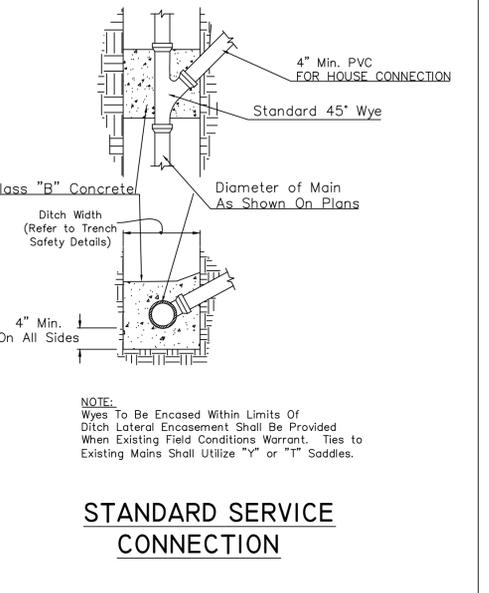
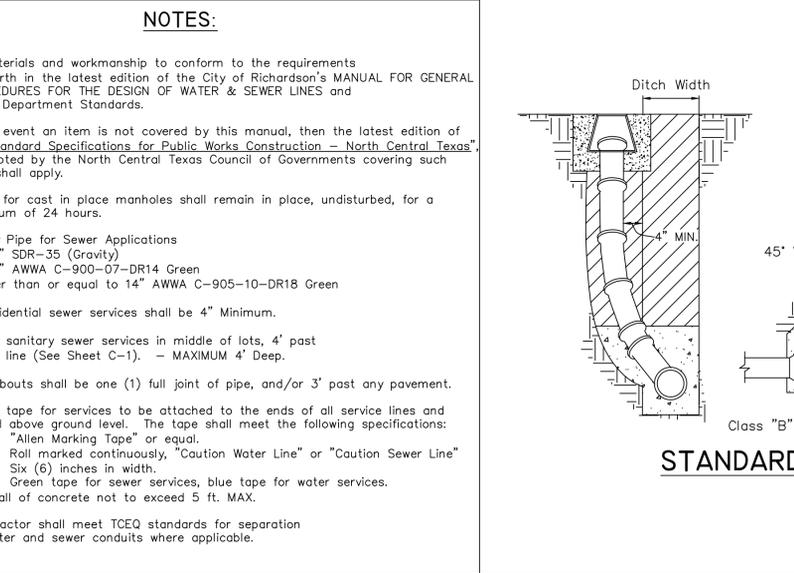
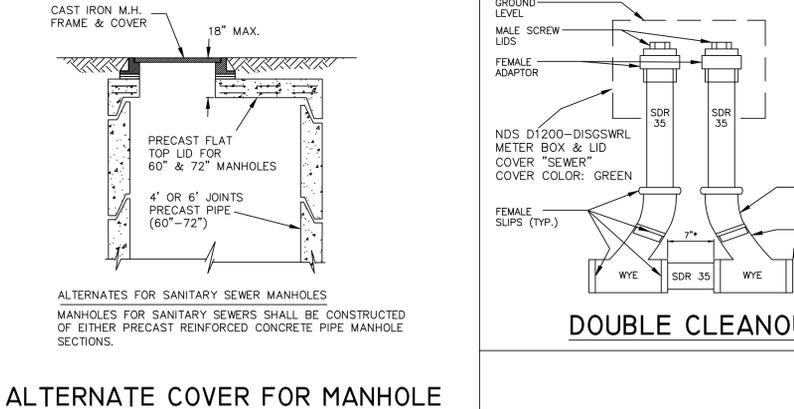
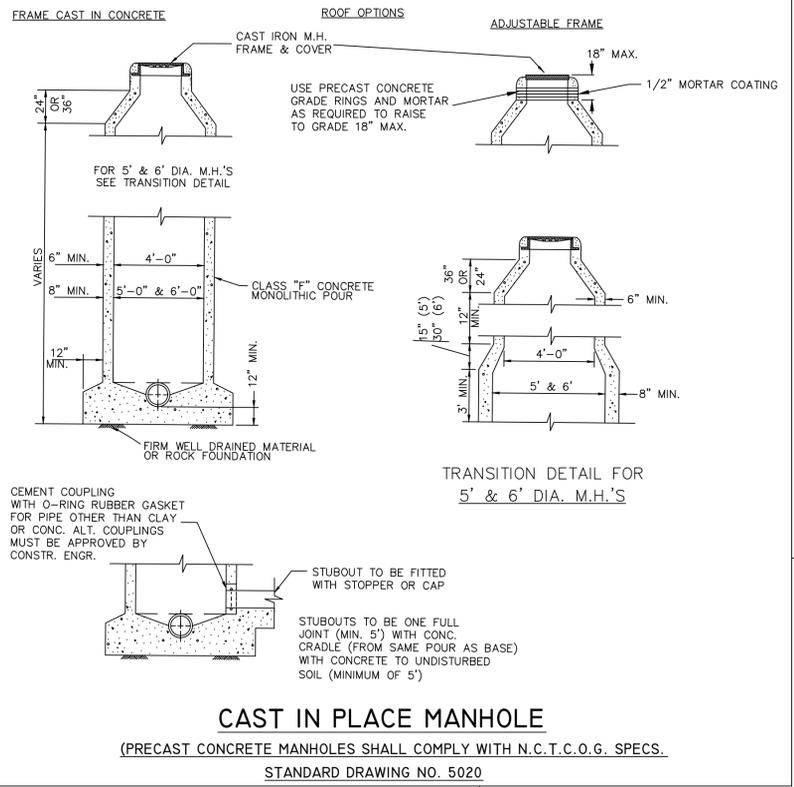
MANHOLE PIPE CONNECTOR
Designed to meet the resilient connectors requirements of ASTM C-923
Acceptable Brands:
Vulcan or Equal
Tyler

STANDARD SANITARY SEWER FIELD CLEANOUT
Pattern #339
Acceptable Brands:
Vulcan or Equal
Tyler

MANHOLE PIPE CONNECTORS
GPK Manhole Couplings
Ultra-Rib Manhole Sleeve Coupling
CEMENT COUPLING WITH O-RING RUBBER GASKET FOR PIPE OTHER THAN CLAY OR CONC. ALT. COUPLINGS MUST BE APPROVED BY CONSTR. ENGR.

NOTES:

- All materials and workmanship to conform to the requirements set forth in the latest edition of the City of Richardson's MANUAL FOR GENERAL PROCEDURES FOR THE DESIGN OF WATER & SEWER LINES and Water Department Standards.
- In the event an item is not covered by this manual, then the latest edition of the "Standard Specifications for Public Works Construction - North Central Texas" as adopted by the North Central Texas Council of Governments covering such items shall apply.
- Forms for cast in place manholes shall remain in place, undisturbed, for a minimum of 24 hours.
- Gravity Pipe for Sewer Applications
4"-15" SDR-35 (Gravity)
4"-12" AWWA C-900-07-DR14 Green
Greater than or equal to 14" AWWA C-905-10-DR18 Green
- All residential sewer services shall be 4" Minimum.
- Locate sanitary sewer services in middle of lots, 4' past R.O.W. line (See Sheet C-1). - MAXIMUM 4' Deep.
- All stubouts shall be one (1) full joint of pipe, and/or 3' past any pavement.
- Plastic tape for services to be attached to the ends of all service lines and extend above ground level. The tape shall meet the following specifications:
A. "Alien Marking Tape" or equal.
B. Roll marked continuously, "Caution Water Line" or "Caution Sewer Line"
C. Six (6) inches in width.
D. Green tape for sewer services, blue tape for water services.
- Free fall of concrete not to exceed 5 ft. MAX.
- Contractor shall meet TCEQ standards for separation of water and sewer conduits where applicable.



Revisions:

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STANDARD DETAILS
City of Richardson, Texas