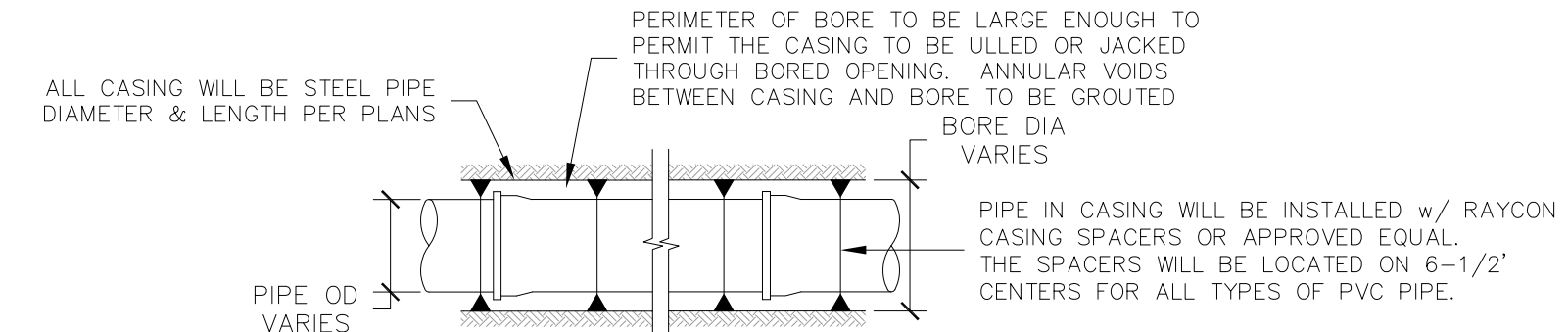


**LONGITUDINAL VIEW - BORE WITH PIPE INSTALLED**

- NOTE:**
- BORINGS UNDER ROADWAYS SHALL CONFORM TO THE TEXAS STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION UTILITY ACCOMMODATION MANUAL.
  - SEE PLAN AND PROFILE FOR LIMITS OF BORE.
  - COMPRESSION TYPE JOINTS TO BE USED IF POSSIBLE.
  - IF COMPRESSION TYPE JOINT NOT USED THEN M.J. TYPE SHALL BE USED AND JOINTS BOLTED BEFORE PULLING PIPE INTO PLACE.
  - WET BORES ARE NOT PERMITTED.

**EMB1 PIPE INSTALLATION BY BORING**

NOT TO SCALE

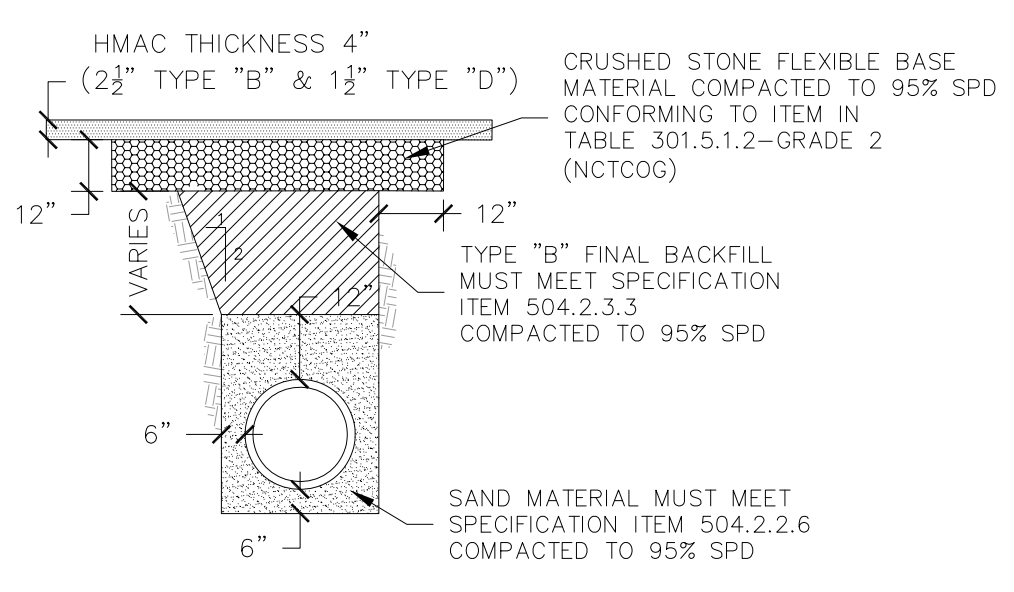


**LONGITUDINAL VIEW - BORE WITH PIPE INSTALLED**

- NOTE:**
- BORINGS UNDER ROADWAYS SHALL CONFORM TO THE TEXAS STATE DEPARTMENT OF HIGHWAYS AND PUBLIC TRANSPORTATION UTILITY ACCOMMODATION MANUAL.
  - SEE PLAN AND PROFILE FOR LIMITS OF BORE.
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  - IF COMPRESSION TYPE JOINT NOT USED THEN M.J. TYPE SHALL BE USED AND JOINTS BOLTED BEFORE PULLING PIPE INTO PLACE.
  - WET BORES ARE NOT PERMITTED.

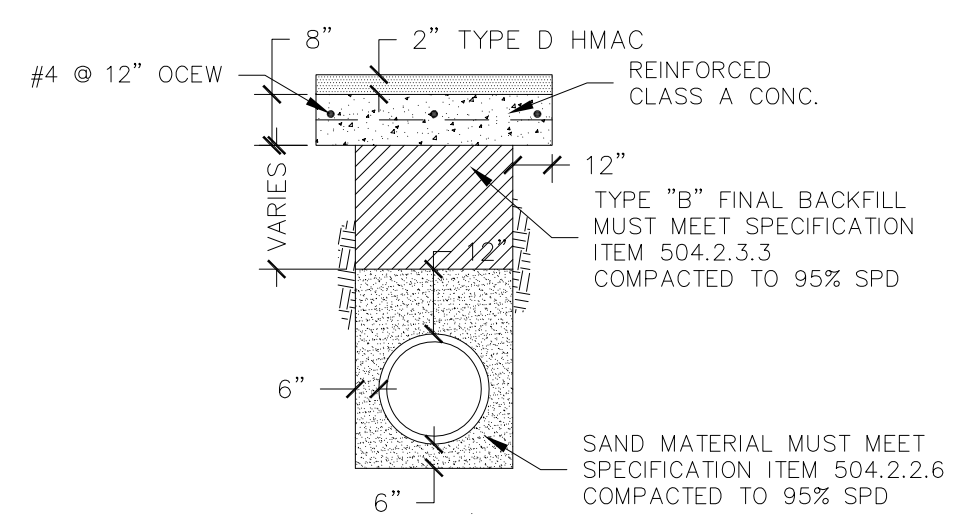
**EMB2 BORING w/ ENCASEMENT DETAILS**

NOT TO SCALE

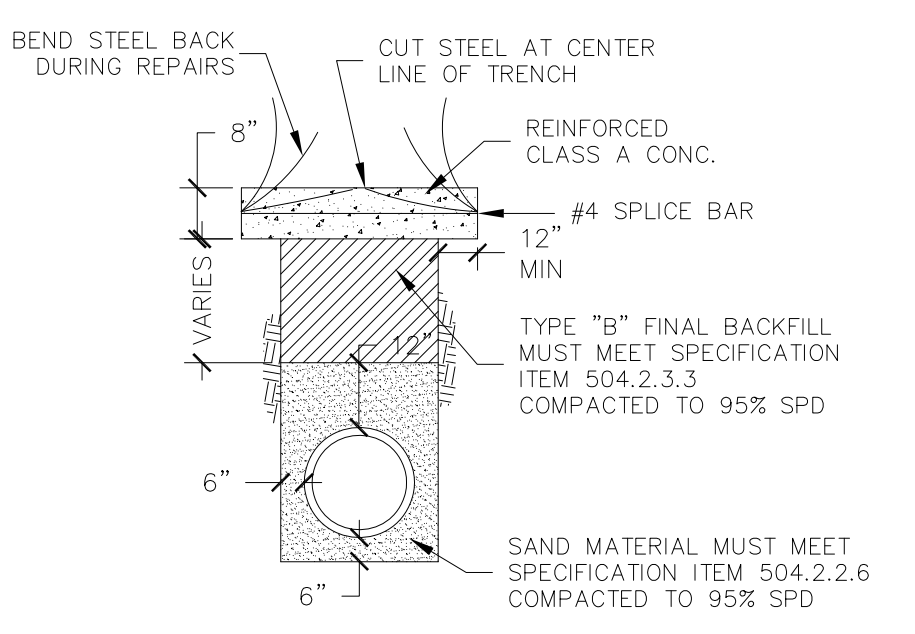


**RESIDENTIAL**

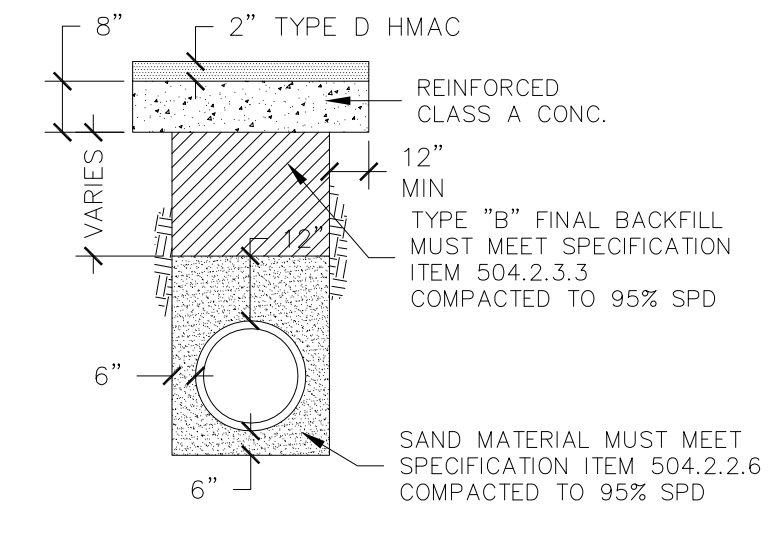
**NOTE:** PRIOR TO EXCAVATION WITHIN PAVEMENT THE CONTRACTOR SHALL SAW CUT AN EVEN LINE TO ENSURE A UNIFORM AND EVEN MATCH FOR PAVEMENT REPAIRS



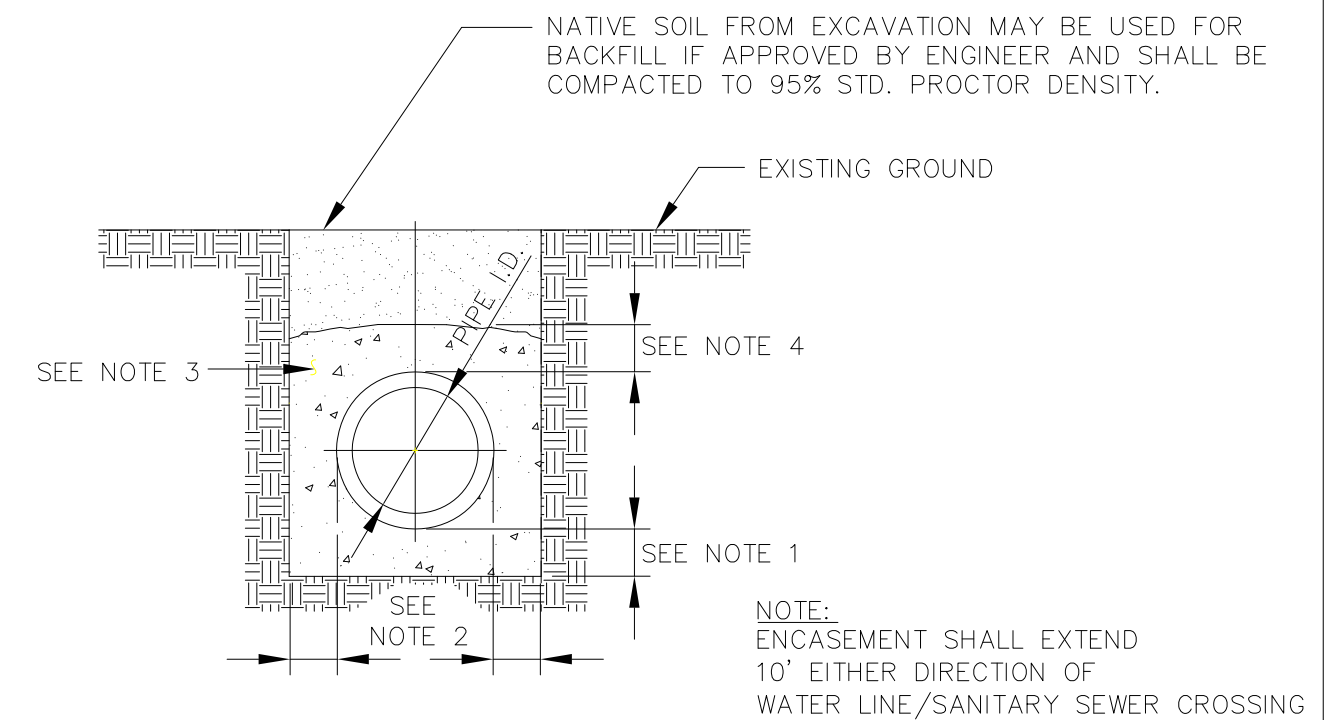
**MAJOR ARTERIALS & THOROUGHFARES**



**CONCRETE STREETS**



**COLLECTOR STREET**

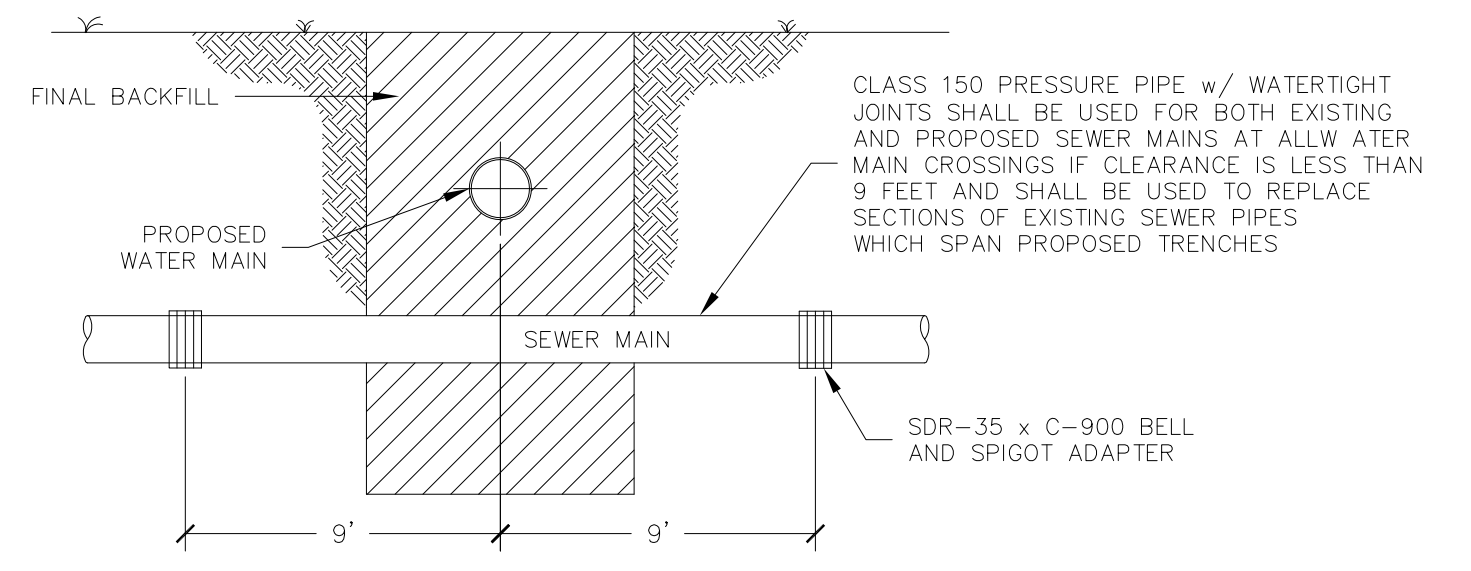


**CONC. CRADLE & CONC. ENCASEMENT NOTES:**

- 6" DEPTH REQUIRED.
- 6" MIN. DEPTH REQUIRED FOR 24" MAINS OR SMALLER.
- 9" MIN. DEPTH REQUIRED FOR 30" MAINS OR LARGER.
- CLASS "B" CONC. (2000 PSI AT 28 DAYS).
- 4" MIN. DEPTH REQUIRED.
- THERE WILL BE NO ADDITIONAL PAYMENT MADE FOR ANY CONC. THAT EXCEEDS THE MIN. DEPTH REQUIRED ON ALL BIDS PER CUBIC YARDS.
- WHEN THE TRENCH OR EXCAVATION EXCEEDS 5 FEET IN DEPTH, THE CONTRACTOR SHALL MEET OR EXCEED O.S.H.A. STANDARDS FOR TRENCH SAFETY PLAN.

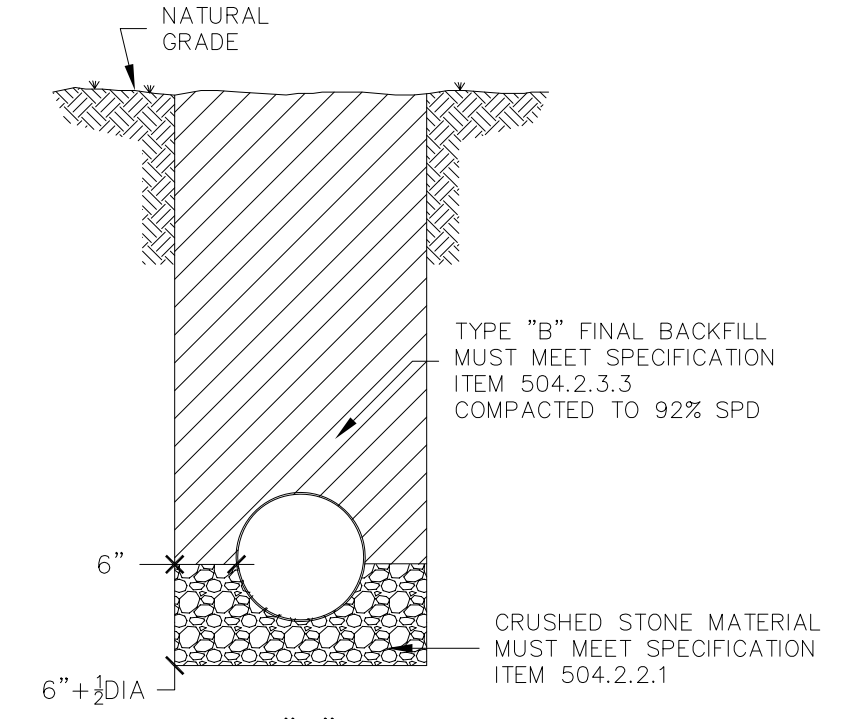
**CONCRETE ENCASEMENT**

NOT TO SCALE



**EMB4 SEWER & WATER CROSSINGS**

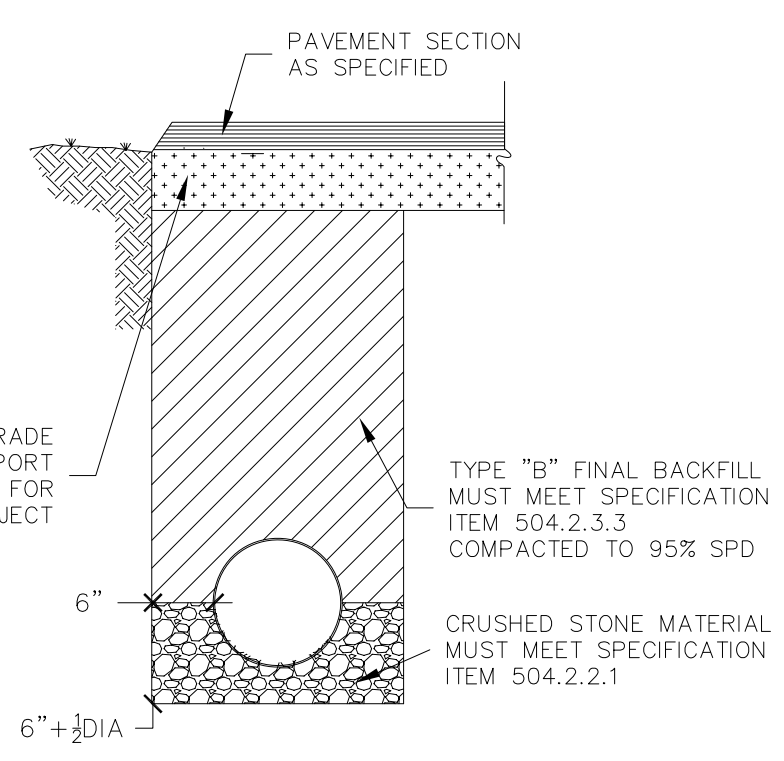
NOT TO SCALE



**TYPE "S" STANDARD EMBEDMENT/BACKFILL**

THE STANDARD EMBEDMENT DETAIL RELATES TO INSTALLATIONS OUT FROM UNDER PAVEMENT OR ROADWAY BASE SUCH AS CROSS-COUNTRY EASEMENT PARKWAYS OR ANY LOCATIONS NOT SUBJECT TO PROPOSED STREET PAVEMENT.

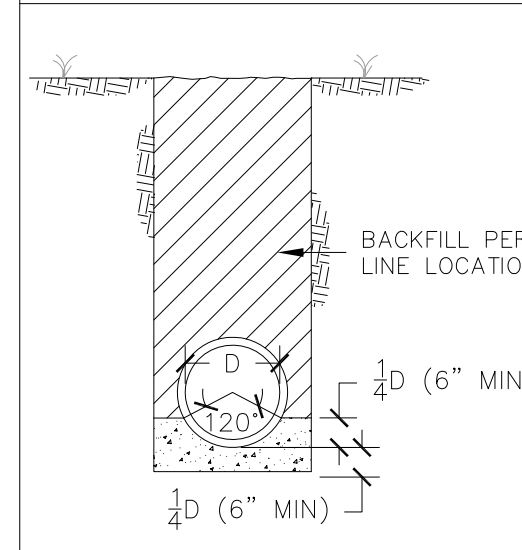
**NOTE:** TONGUE & GROOVE PIPE WILL BE SEALED USING OMNI-FLEX RUBBER COMPRESSION SEAL OR APPROVED EQUAL



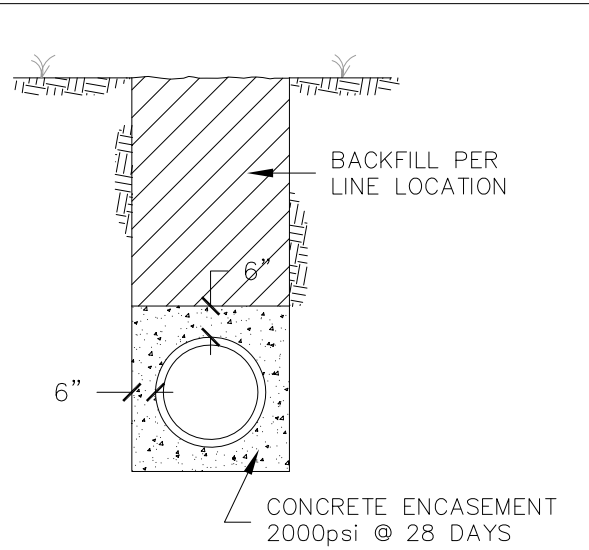
**TYPE "P-S" STANDARD EMBEDMENT/BACKFILL UNDER PAVEMENT**

**EMB5 STORM DRAIN PIPE EMBEDMENT**

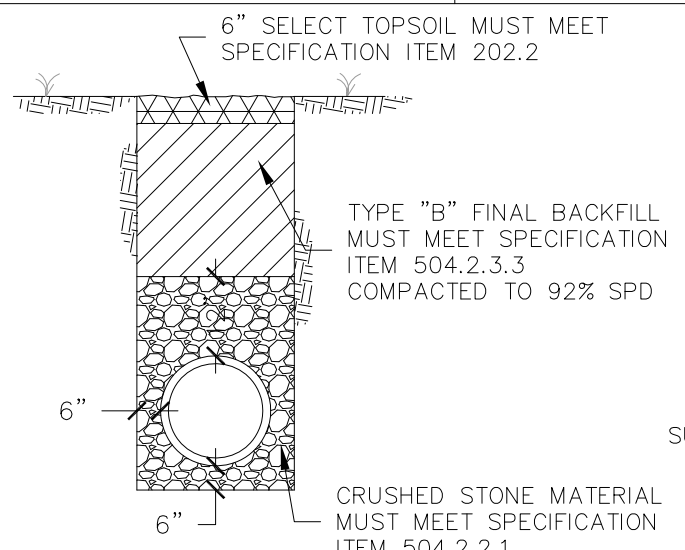
NOT TO SCALE



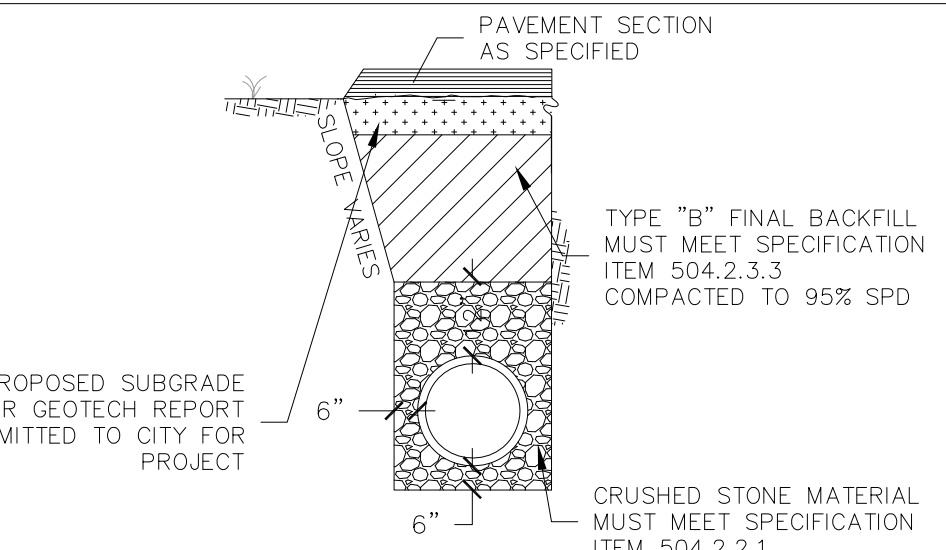
**CONCRETE BEDDING WATER AND SEWER**



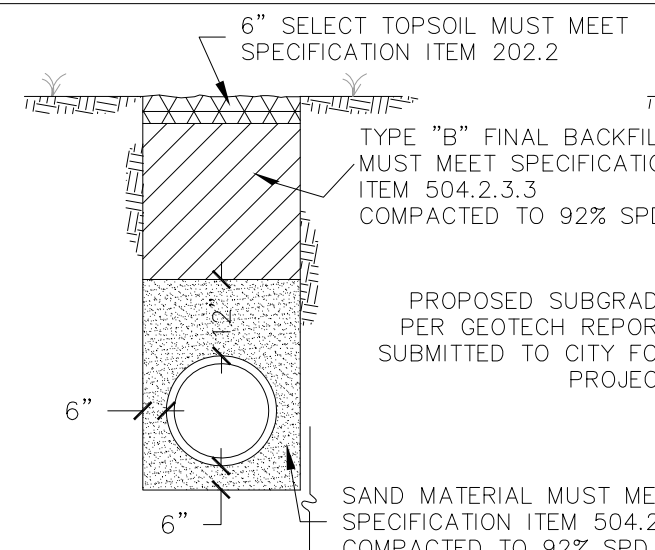
**CONCRETE ENCASEMENT WATER AND SEWER**



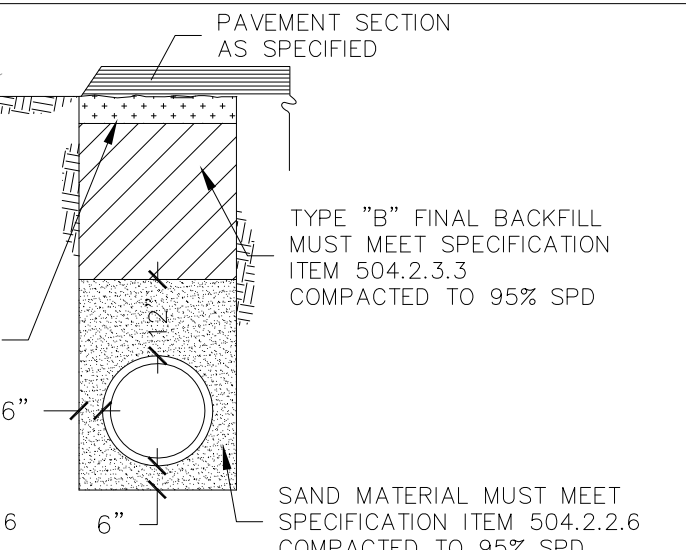
**STANDARD EMBEDMENT FOR SEWER LINE NOT IN ROW**



**STANDARD EMBEDMENT FOR SEWER LINE UNDER PAVEMENT**



**STANDARD EMBEDMENT FOR WATER LINE NOT IN ROW**



**STANDARD EMBEDMENT FOR WATER LINE UNDER PAVEMENT**

- NOTES:**
- PIPE MAY NOT BE BACKFILLED ABOVE SPRING LINE UNTIL LOWER PORTION IS COMPACTED TO 95% STANDARD PROCTOR DENSITY. EMBEDMENT BELOW PIPE SHALL BE COMPACTED BEFORE PIPE IS LAID. BELL SHALL BE DUG OUT.
  - TRENCHES SHALL BE TESTED AT THE RATE OF ONE TEST PER 300 LINEAR FEET PER 12 INCH LIFT (LOOSE). TESTS SHALL BE STAGGERED SO THAT TESTS OF ADJACENT LIFTS ARE NOT DIRECTLY OVER THAT OF THE PREVIOUS LIFT. IF THE DISTANCE BETWEEN MANHOLES EXCEEDS 300 FT., A MINIMUM OF TWO TESTS SHALL BE REQUIRED.
  - EMBEDMENT WITHIN RIGHT-OF-WAY WILL BE USED WHEN INSTALLING UTILITY LINES WITHIN STREET RIGHT-OF-WAYS, AND UNDER PAVEMENT. ALL OTHER INSTALLATION LOCATIONS, SUCH AS IN EASEMENTS OR CROSS COUNTRY LOCATIONS WILL COMPLY WITH STANDARD EMBEDMENT DETAILS.
  - REFER TO NCTCOG ITEM 504.5.3.2.1 AND ITEM 504.5.3.2.2 FOR DENSITIES REGARDING AREAS SUBJECT TO VEHICULAR TRAFFIC.

**EMB6 P.V.C. PIPE EMBEDMENT**

NOT TO SCALE



101 MAIN STREET  
HASLET, TX 76052  
(817)439-5931  
WWW.HASLET.ORG



Know what's below.  
Call before you dig.  
@least 48 hours prior

CITY OF HASLET  
CONSTRUCTION STANDARDS  
EMBEDMENT DETAILS

**CERTIFICATION:**  
THIS CITY OF HASLET SHEET IS AUTHORIZED FOR USE ON THIS PROJECT BY AUTHORITY OF THE CITY ENGINEER. BY INCLUDING THIS SHEET IN THE CONSTRUCTION SET OF DRAWINGS, THE ENGINEER OF RECORD FOR THE PROJECT IS ALSO CERTIFYING THAT THE CONTENT OF THE DETAILS AND NOTES HAVE NOT BEEN ALTERED FROM THAT RECEIVED FROM THE CITY OF HASLET.

DRAWN: CAD

APPROVED: TNA

DATE: AUG. 2017

SHEET NUMBER

**E1**