

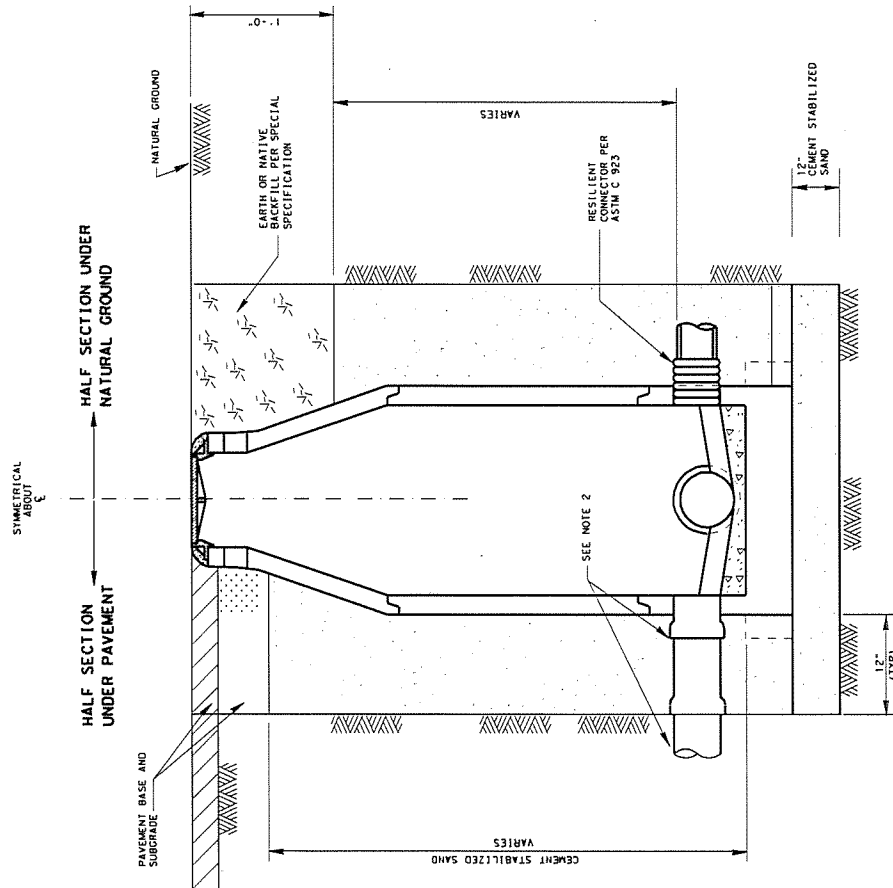


**NOTES:**

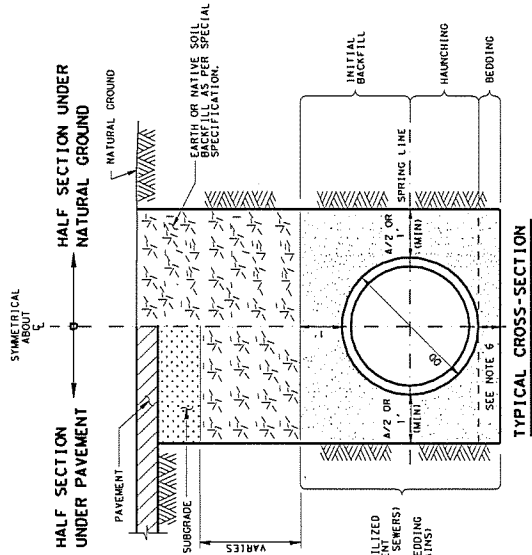
1. CURING THE MANHOLE STRUCTURE ANNUAL SPACE IS PERMITTED IN CASES WHERE INSUFFICIENT WORK SPACE EXISTS FOR PLACING AND COMPACTING CEMENT STABILIZED SAND.
2. ARRANGE PIPE JOINTS AS SHOWN WHEN USING RIGID CONNECTION TO CAST IN PLACE MANHOLE BASE.

**NOTES:**

3. USE 1/2" IS DETAIL ONLY FOR DRY STABLE TRENCH CONDITIONS.
  4. MIN. TRENCH WIDTH IS PIPE OD PLUS TRENCH WIDTH FOR THE NOMINAL PIPE SIZE.
- NOMINAL PIPE SIZE
- |                  |                  |             |
|------------------|------------------|-------------|
| 18 IN.           | 24 IN.           | 36 IN.      |
| LESS THAN 18 IN. | 18 IN. TO 30 IN. | OVER 30 IN. |
5. MAX TRENCH WIDTH IS THE MIN TRENCH WIDTH PLUS 24 IN. UNLESS OTHERWISE NOTED.
  6. MINIMUM CEMENT STABILIZED SAND BEDDING IS THE GREATER OF 1/8 OD OR 6 IN.



**TYPICAL CROSS-SECTION  
SANITARY SEWER  
BACKFILL OF MANHOLES  
(PRECAST AND CAST-IN-PLACE)**



**TYPICAL CROSS-SECTION  
SANITARY SEWER  
EXCAVATION AND BACKFILL DIAGRAM  
DRY STABLE TRENCH  
NOT TO SCALE**

SHEET 2 OF 4

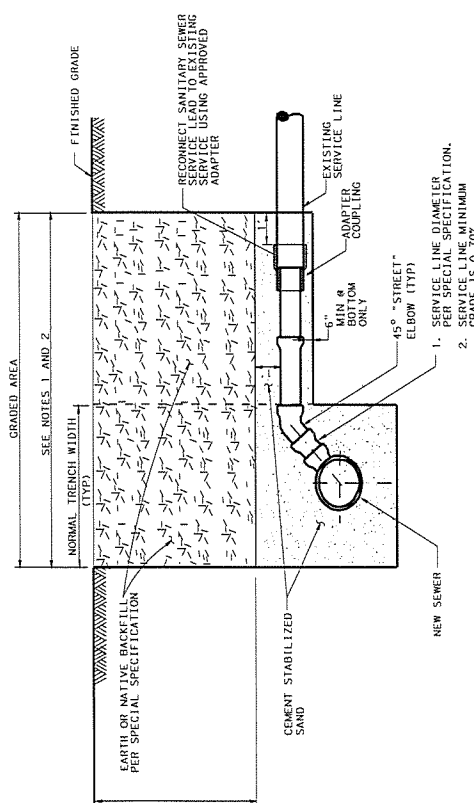
Texas Department of Transportation  
Houston District

**SANITARY SEWER  
DETAILS  
SSD-2**

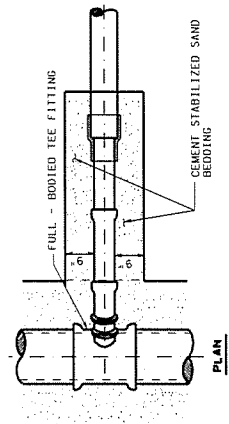
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BY	TD/00	BY	TD/00	BY	TD/00	BY	TD/00	BY	TD/00	BY	TD/00
CHK	TD/00	CHK	TD/00	CHK	TD/00	CHK	TD/00	CHK	TD/00	CHK	TD/00
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310 1/2

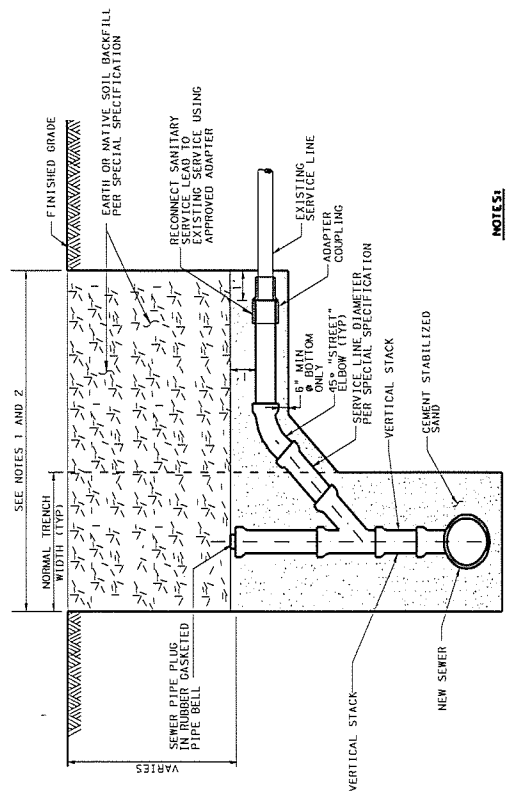




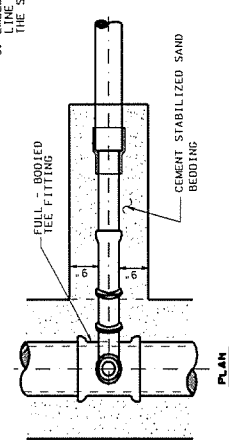
**CROSS-SECTION OF SEWERS AT SERVICE CONNECTION**  
(NOT TO SCALE)



**SERVICE RECONNECTION ON NEW OR REPLACEMENT SEWER**  
(NOT TO SCALE)



**CROSS-SECTION OF SEWERS AT SERVICE CONNECTION**  
(NOT TO SCALE)



**SERVICE RECONNECTION WITH STACK**  
(NOT TO SCALE)

- NOTES:**
1. REPLACE EXISTING SERVICE LINE TO THE EXTENT SHOWN ON PLAN AND PROFILE LIMITS.
  2. EXCAVATE AND REMOVE EXISTING SEWER MATERIALS AS REQUIRED TO ALLOW RECONSTRUCTION.
  3. EMBEDEDMENT AND BACKFILL FOR SERVICE LINE IS INCLUDED IN THE PRICE FOR THE SERVICE CONNECTION.

Texas Department of Transportation  
Houston District (Roadway)

**SANITARY SEWER DETAILS**

SSD-4

FILE#	STRAKADON	DATE	10/01/11	DESIGN	10/01/11	DATE	10/01/11	PROJECT NO.	001	SHEET	001
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