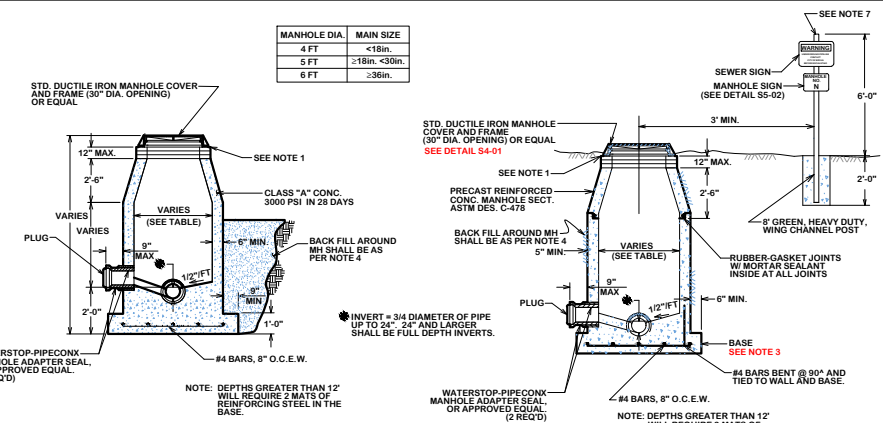


- NOTES:
1. A MAX. OF 4 AND A MIN. OF 2 THROAT RINGS SHALL BE USED AT EACH MANHOLE IN NEW OR EXISTING RIGHT-OF-WAY.
 2. USE ADEKA SEALANT OR APPROVED EQUAL BETWEEN RINGCOVER, ADJUSTMENT RINGS AND CHIMNEY OR CORBEL/COLE SECTION.
 3. MANHOLE BASE THICKNESS AND FOUNDATION FROM FLOWLINE TO RIM AS FOLLOWS:
MANHOLE DEPTH (FT.) BASE THICKNESS
0 - 12 8"
12 AND OVER 12"
 4. MANHOLE LOCATION AND COMPACTION AS FOLLOWS:
LOCATION COMPACTION REQUIREMENT
PAVEMENT 98% STANDARD PROCTOR - ASTM D 698
LANDSCAPE AREA 90% STANDARD PROCTOR - ASTM D 698
 5. IN FLOODPLAINS OR AREAS OF CONCENTRATED FLOW, THE CONE SHALL EXTEND 1 FOOT ABOVE THE BASE FLOOD ELEVATION OR A BOLT DOWN WATER-TIGHT RING AND COVER SHALL BE USED, VENTED WHERE REQUIRED.
 6. WARNING SIGN ONLY TO BE PLACED WHERE SEWER CROSSES OPEN FIELDS.



MANHOLE DIA.	MAIN SIZE
4 FT	<18in.
5 FT	21in.-30in.
6 FT	>36in.

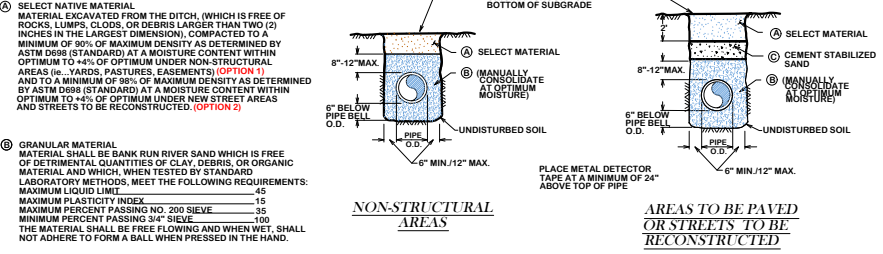
CAST IN PLACE MANHOLE

PRE-CAST MANHOLE

STANDARD MANHOLE

S1-00

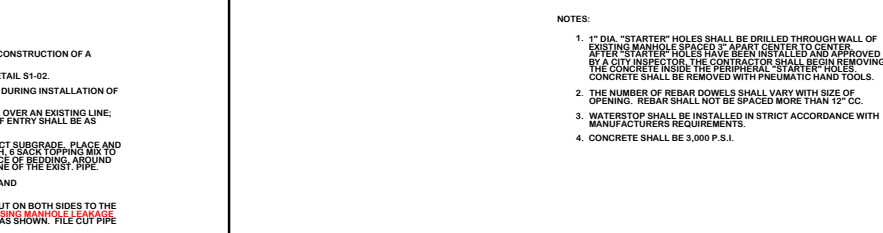
- NOTES:
1. FOR BEDDING AND TRENCHING WITHIN ALL EXISTING PAVED AREAS, SEE DETAILS FOR OPEN CUT STREETS, (DMS# ST-49, ST-41, ST-42). THIS NOTE DOES NOT APPLY TO STREETS BEING RECONSTRUCTED.
 2. ALL BEDDING & INSTALLATION OF PVC PIPE SHALL BE IN ACCORDANCE TO ANSI/AWWA STANDARDS FOR PVC PIPE.
 3. ALL BEDDING & INSTALLATION OF DUCTILE IRON PIPE SHALL BE IN ACCORDANCE TO ANSI/AWWA C900.1-20.
 4. COMPACTION SHALL BE ATTAINED BY MECHANICAL TAMPING.
 5. ALL TRENCHES SHALL BE BACK FILLED AND TEMPORARY PAVING OR PLANKING PLACED AT THE END OF EACH WORKING DAY.
 6. EVERY 100 FEET PROVIDE A WATER STOP BLOCK COMPOSED OF CEMENT SAND OR IMPROVED NATIVE MATERIAL DEPENDING ON EMBEDMENT. BLOCK SHALL BE 6 FEET IN LENGTH. NO BEDDING SAND IN THIS AREA.



BEDDING AND TRENCH FOR DI PIPE & PVC PIPE

S1-01

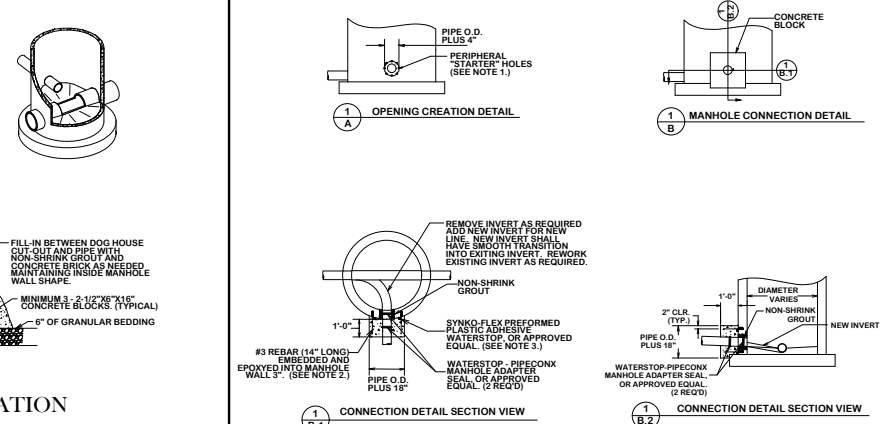
- NOTES:
1. FLOW SHALL BE MAINTAINED DURING CONSTRUCTION.
 2. THIS DETAIL TO BE USED WHEN A 6" OR LARGER LATERAL NECESSITATES CONSTRUCTION OF A NEW MANHOLE.
 3. FOR ADDITIONAL STANDARDS NOT SHOWN, SEE "STANDARD MANHOLE" DETAIL S1-02.
 4. CONTRACTOR SHALL BE RESPONSIBLE FOR SUPPORT OF EXISTING SEWER DURING INSTALLATION OF MANHOLE.
 5. DOGHOUSE OPENING MAY ONLY BE USED WHEN PLACING A NEW MANHOLE OVER AN EXISTING LINE. OTHERWISE, THE OPENING MUST BE CAST. SIZE, LOCATION, AND ANGLE OF ENTRY SHALL BE AS REQUIRED BY THE PLANS.
 6. EXCAVATE TRENCH TO MIN. 12" BELOW BOTTOM OF EXISTING PIPE. COMPACT SUBGRADE. PLACE AND COMPACT 6" OF GRANULAR BEDDING. MONOLITHIC FOUR (4) MIN. 7" DEPTH 8" C&G TOPPING MIX TO BE PLACED INSIDE UNDER AND OUTSIDE MANHOLE BARREL FROM SURFACE OF BEDDING AROUND CONCRETE BLOCK RISERS TO A POINT ABOVE SPRING LINE.
 7. DURING THE SAME POUR, THE FINISH MANHOLE SHELF SHALL BE FORMED AND FINISHED AROUND THE BARREL AND EXISTING PIPE AS SHOWN.
 8. AFTER CONCRETE SHELF HAS CURED, THE EXISTING PIPE SHALL BE SAW-CUT ON BOTH SIDES TO THE FINISHED SHELF GRADE AND REMOVED. ONLY AFTER CITY APPROVED, PASSING MANHOLE LEAKAGE TESTING. THE EXISTING PIPE SHALL FORM THE TROUGH OF THE MANHOLE AS SHOWN. FILE CUT PIPE TO GIVE SMOOTH EDGES.



CITY OF COLLEGE STATION GRAVITY SEWER DOGHOUSE MANHOLE

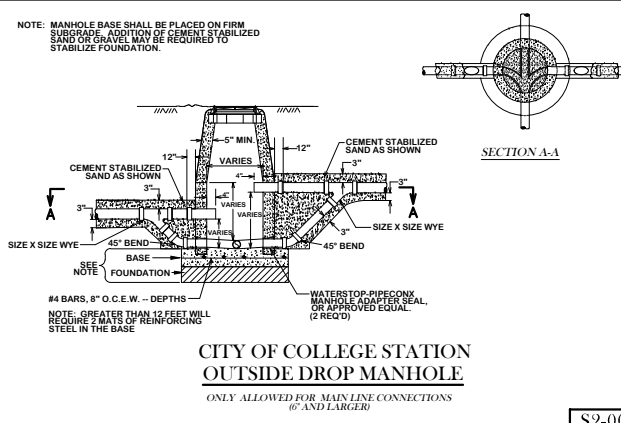
S3-00

- NOTES:
1. 1" DIA. "STARTER" HOLES SHALL BE DRILLED THROUGH WALL OF EXISTING MANHOLE 6" APART CENTER TO CENTER AFTER THE STARTER HOLES HAVE BEEN INSTALLED AND APPROVED BY A CITY INSPECTOR. THE CONTRACTOR SHALL BEGIN REMOVING THE CONCRETE NEAR THE PERIPHERAL "STARTER" HOLES. CONCRETE SHALL BE REMOVED WITH PNEUMATIC HAND TOOLS.
 2. THE NUMBER OF REBAR DOWELS SHALL VARY WITH SIZE OF OPENING. REBAR SHALL NOT BE SPACED MORE THAN 12" C/C.
 3. WATERSTOP SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS REQUIREMENTS.
 4. CONCRETE SHALL BE 3,000 P.S.I.



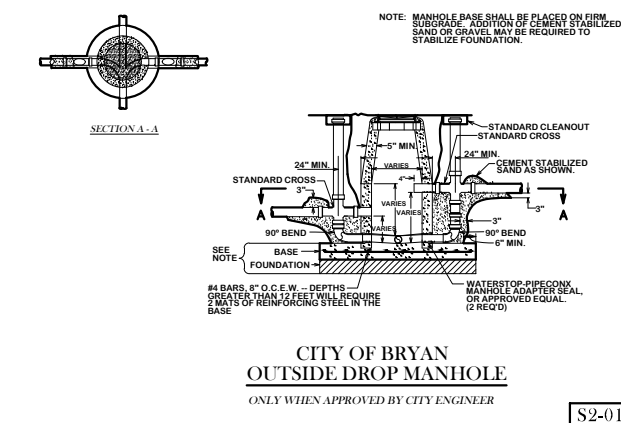
STANDARD MANHOLE TIE-IN

S3-01



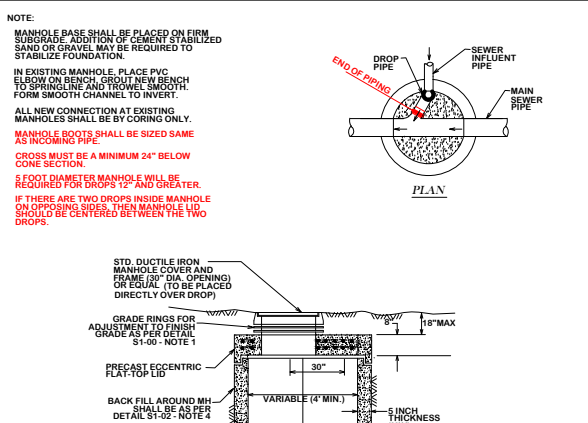
CITY OF COLLEGE STATION OUTSIDE DROP MANHOLE

S2-00



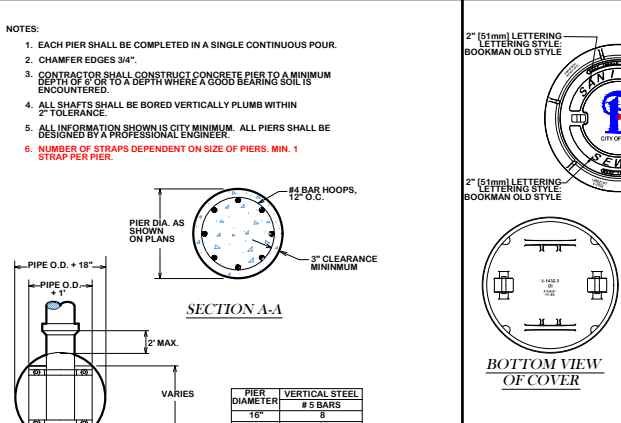
CITY OF BRYAN OUTSIDE DROP MANHOLE

S2-01



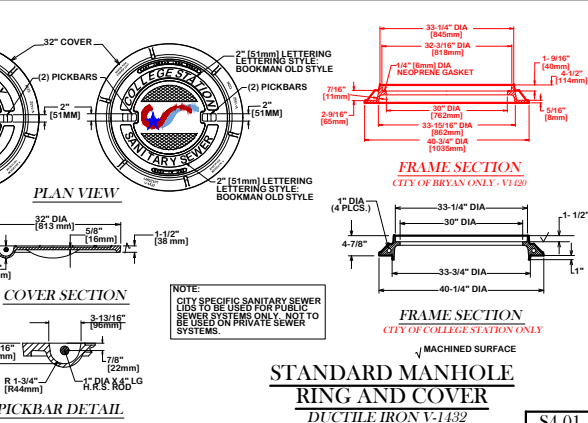
STANDARD DROP MANHOLE

S2-02



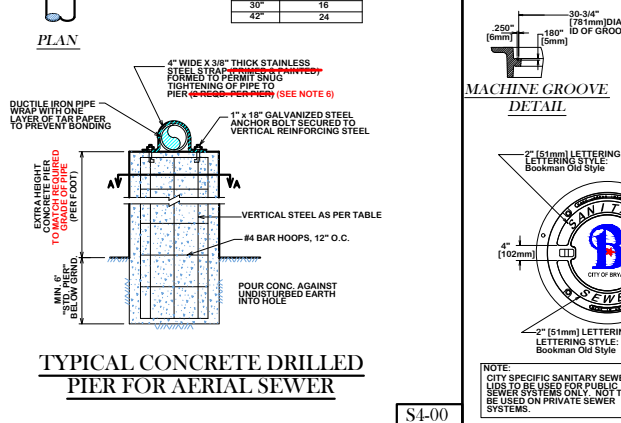
TYPICAL CONCRETE DRILLED PIER FOR AERIAL SEWER

S4-00



STANDARD MANHOLE RING AND COVER

S4-01



WATER TIGHT MANHOLE RING AND COVER

S4-02

REVISIONS:
7/26/2022 - S4-01 FRAME

BRYAN - COLLEGE STATION
STANDARD SEWER DETAILS



DRAWN BY: B.L.
DATE: 12/2020
SCALE: NTS
APPROVED: W. P. K.

FIGURE:
S1
SHEET 1

REVISIONS:
 S6-00 & S6-01 revised 10/28/2012.

**BRYAN - COLLEGE STATION
 STANDARD SEWER DETAILS**



DRAWN BY: B.I.
 DATE: 12/2020
 SCALE: NTS
 APPROVED: W.P.K.

FIGURE:
S3
 SHEET 3 OF 3

