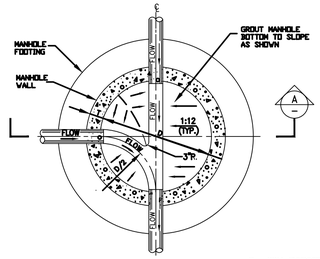
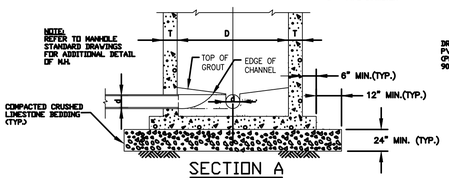


PLAN

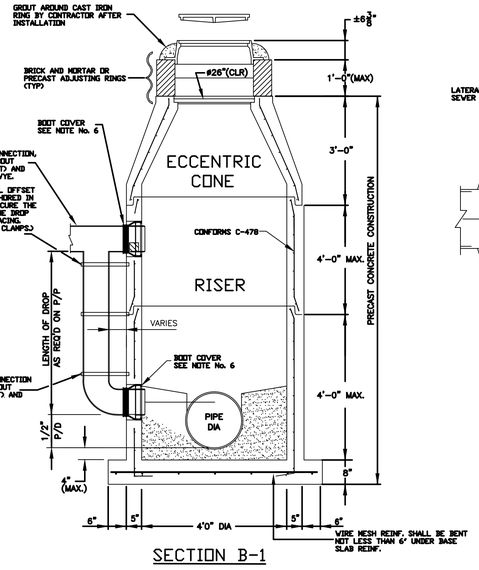
T = WALL THICKNESS
D = MANHOLE DIAMETER
d = PIPE DIAMETER



SECTION A

TYPICAL SEWER MANHOLE BOTTOM

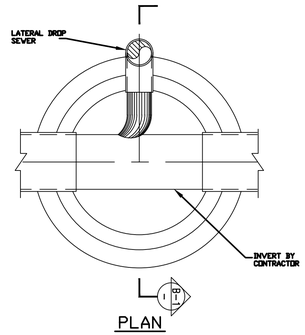
N.T.S.



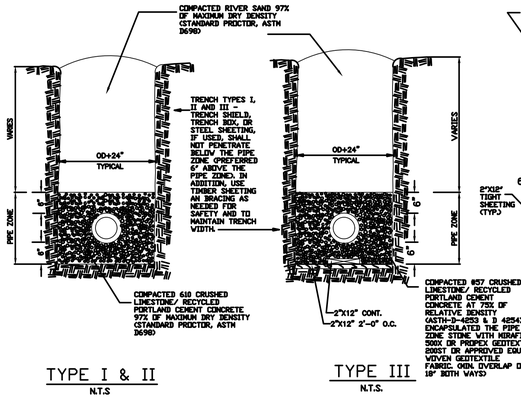
SECTION B-1

STANDARD DROP SEWER MANHOLE

N.T.S.



PLAN



SANITARY SEWER STANDARD TRENCH DETAILS

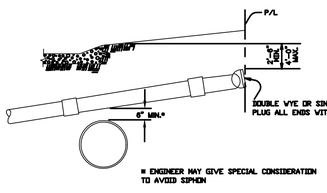
N.T.S.

NOTE:

TIMBER SHEETING AND BRACING SHOWN ABOVE ARE MIN. REQUIREMENTS TO CONTROL THE WIDTH OF THE EXCAVATED TRENCH AND TO SAFEGUARD THE INTEGRITY OF THE SEWER FOUNDATION, BEDDING AND BACKFILL. IN ADDITION TO THESE MIN. REQUIREMENTS, THE CONTRACTOR SHALL PROVIDE SUFFICIENT SHEETING AND BRACING TO PROVIDE SAFE WORKING CONDITIONS FOR HIS WORKMEN.

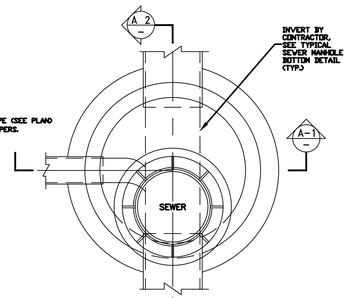
NOTES:

1. TRENCH CONSTRUCTION FOR THE GRAVITY SEWER LINES SHALL BE DETERMINED BY THE EXISTING SOIL TYPE AND DEPTH OF INSTALLATION.
2. ONLY HARDWOOD SUCH AS OAK SHALL BE ALLOWED FOR SHEETING, BRACING, AND FOUNDATION LUMBER.
3. AT THE CONTRACTOR'S OPTION, FOUNDATION LUMBER MAY BE USED IN TRENCH TYPES I & II.
4. THE CONTRACTOR MUST REVIEW AND UNDERSTAND ALL THE DETAILS ON THIS STANDARD DRAWING SHEET PRIOR TO BIDDING.

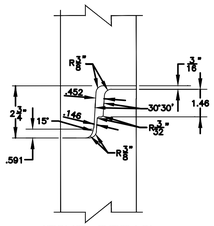


HOUSE CONNECTION OVER DRAIN

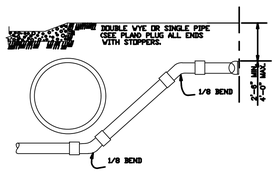
N.T.S.



PLAN



JOINT DETAIL

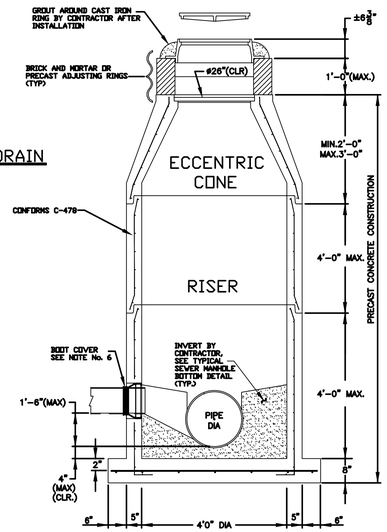


HOUSE CONNECTION UNDER DEEP DRAIN

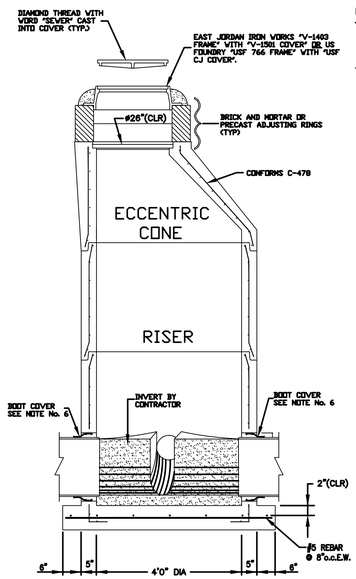
N.T.S.

NOTES:

1. REINFORCING STEEL TO MEET ASTM A-615 GRADE 60, CONCRETE TO BE 4000 PSI IN 28 DAYS.
2. CONCRETE TO CONTAIN XYPEX ADMIX AS PER MANUFACTURER RECOMMENDATIONS.
3. REINFORCING TO MEET AASHTO HS-20 LOADING.
4. JOINTS BETWEEN PRECAST UNITS WILL BE SEALED WITH A RUBBER GASKET TO MEET ASTM C-443.
5. PRECAST CONCRETE STRUCTURES TO MEET ASTM C-478.
6. USE RESILIENT BOOT CONNECTORS TO CONNECT PIPES TO MANHOLES. RESILIENT BOOT CONNECTORS AND THEIR INSTALLMENT SHALL MEET AND/OR EXCEED ALL REQUIREMENTS OF ASTM C923, ASTM C1244, AND ASTM C1478.
7. MANHOLES THAT EXCEED 12 FT IN DEPTH SHALL USE 10" THICK CONC. BOTTOM SLAB.
8. XYPEX ADMIX C-1000 SHALL BE INCORPORATED INTO ALL MORTAR MIXES USED IN SANITARY SEWER MANHOLES.
9. ALL XYPEX ADMIX SHALL INCLUDE A DYE SO IT CAN BE DISTINGUISHED FROM CONCRETE WITHOUT XYPEX EXCEPT TOP SLAB OF LIFT STATION WET WELLS AND VALVE PITS WHICH SHOULD NOT HAVE ANY DYE IN THE XYPEX.
10. CONCRETE "FORTIFIED WITH CONSHIELD" (IN ADDITION TO XYPEX), IS REQUIRED FOR LIFT STATION WET WELLS, MANHOLES WITHIN CLOSE PROXIMITY (100 FT) OF LIFT STATION, DEEP (8 FT AND DEEPER) MANHOLES, AND ANY MANHOLE WHICH IS OR WILL BE RECEIVING A FORCE MAIN.
11. FIBERGLASS AS WELL AS BRICK, CAST-IN-PLACE AND PRECAST CONCRETE MANHOLES MAY BE SPECIFIED IF APPROVED BY ST. BERNARD PARISH ENGINEER PRIOR TO BIDDING. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS, FOR MANHOLES, TO THE ST BERNARD PARISH PUBLIC WORKS DEPARTMENT FOR APPROVAL PRIOR TO CONSTRUCTION.



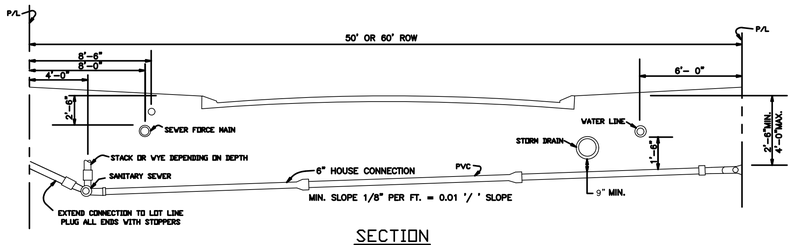
SECTION A-1



SECTION A-2

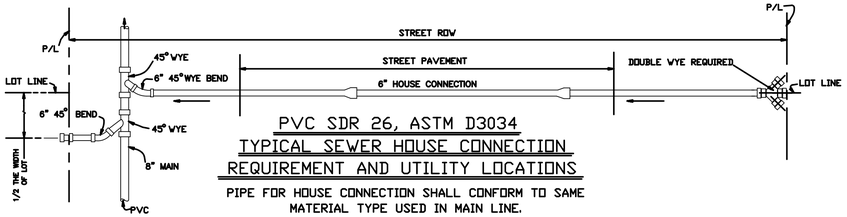
STANDARD SEWER MANHOLE

N.T.S.



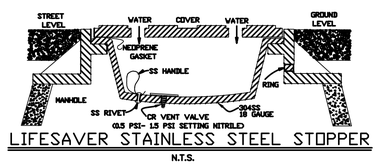
SECTION

N.T.S.



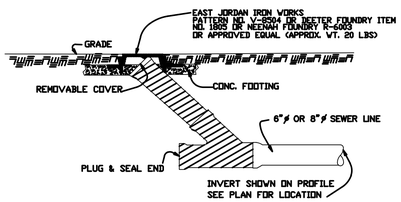
PVC SDR 26, ASTM D3034
TYPICAL SEWER HOUSE CONNECTION REQUIREMENT AND UTILITY LOCATIONS

PIPE FOR HOUSE CONNECTION SHALL CONFORM TO SAME MATERIAL TYPE USED IN MAIN LINE.



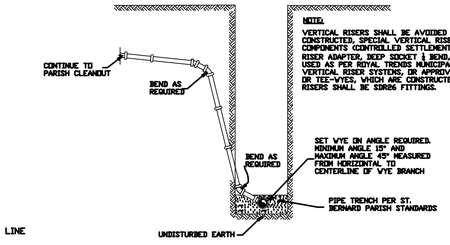
LIFESAVER STAINLESS STEEL STOPPER

N.T.S.



CLEANOUT DETAIL

N.T.S.

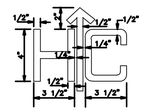


DEEP SEWER SERVICE CONNECTION

N.T.S.

NOTE:

VERTICAL RISERS SHALL BE AVOIDED IF POSSIBLE. IF CONSTRUCTED, SPECIAL VERTICAL RISER SYSTEMS COMPONENTS CONTROLLED SETTLEMENT JOINT, VERTICAL RISER ADAPTER, DEEP SOCKET ¼ BEND, ETC.) SHALL BE USED AS PER ROYAL TRENDS MANUFACTURERS' VERTICAL RISER SYSTEMS, OR APPROVED EQUAL. TEES OR TEE-WYES, SHALL NOT BE CONSTRUCTED OF VERTICAL RISERS SHALL BE SDR26 FITTINGS.



NOTE:

1. CONTRACTOR TO HAVE BRAND FABRICATED & SUBMIT TO ENGINEER FOR APPROVAL.
2. LETTERS TO BE IMPRESSED IN FACE OF ROLL OVER CURB AT EACH SEWER HOUSE CONNECTION. IMPRESSIONS SHALL NOT BE MORE THAN 1/2" NOR LESS THAN 1/4"

LETTER DETAIL FOR HOUSE CONNECTION MARKING DEVICE

N.T.S.

PROJECT NAME :

PROJECT NUMBER:

DATE	08.09.2019
DRAWN BY	MF/AR
SCALE:	NTS
FILENAME:	S:\Public Works Shared\St. Bernard Standard Details

ST. BERNARD PARISH GOVERNMENT
STANDARD DETAIL PLANS
SEWER DETAILS

APPROVED BY

DATE

THIS DOCUMENT WILL BE CONSIDERED A COPY ONLY, UNLESS EMBOSSED BY A REGISTERED ENGINEERS SEAL

DRAWING NUMBER

SD - 10

SHEET 10 OF 13