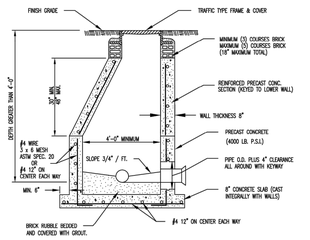
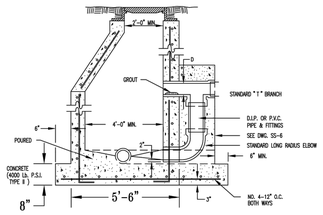
DATE: 11/5/2021 6:44:10 PM
THIS LINE SHOULD MEASURE ONE HALF INCH ON A HALF SCALE PRINT.
FILE: R:\Projects\1942 Higgins Boca West CC\CAD\Plans\1942-C8.1-POTABLE WATER & SANITARY SEWER DETAILS.dwg Monday, January 11, 2021 4:27:29 PM



1. BRICK MASONRY CONSTRUCTION TO BE STUCCOED WITH 1/2" MORTAR INSIDE AND OUTSIDE.
2. THE FIRST THREE JOINTS OF PIPE AT ALL INFLUENTS AND EFFLUENTS OF EACH MANHOLE TO BE A MINIMUM OF 2'-0" IN LENGTH (TO ALLOW FOR SETTLING)
3. CONCRETE TO BE SEAL COATED WITH 16 MIL THICKNESS APPROVED COATING.
4. INFILTRATION TO BE STOPPED WITH MANSTOP COMPOSITE LINER APPLIED PER APPROVED PRODUCTS LIST.
5. PIPE & COUPLING TO BE CLEAN.
6. LIFT HOLES THROUGH PRECAST STRUCTURE ARE PERMITTED.
7. SEE TECHNICAL SPECIFICATIONS FOR PLACEMENT OF CONSTRUCTION JOINTS.
8. ALL OPENINGS SHALL BE SEALED WITH A WATERPROOF, EXPANDING GROUT.
9. A FLOW CHANNEL SHALL BE CONSTRUCTED INSIDE MANHOLE TO DIRECT INFLUENT INTO FLOW STREAM.
10. BEDDING MATERIAL REQUIRED.
11. PREFORMED FLEXIBLE PLASTIC JOINT SEALER SHALL BE USED WHERE REQUIRED. "RAM-NEK" AS MAFG. BY K.F. SMISER, INC. OR APPROVED EQUAL.

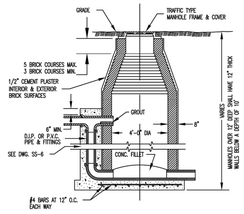
STANDARD MANHOLE
PRECAST



TYPE "A" DROP MANHOLE

NOTE:
1. CONCRETE ENCASEMENT FOR DROP CONNECTION TO BE POURED INTEGRALLY WITH BOTH MANHOLE SLAB AND WALL.
2. DROP CONNECTIONS SHALL BE REQUIRED WHENEVER AN INFLUENT SEWER IS LOCATED TWO (2) FEET OR MORE ABOVE THE MAIN INVERT CHANNEL.
3. A FLOW CHANNEL SHALL BE CONSTRUCTED INSIDE MANHOLE TO DIRECT INFLUENT INTO FLOW STREAM.
4. FOR MORE DETAILS, SEE DRAWING ON STANDARD PRECAST MANHOLES.

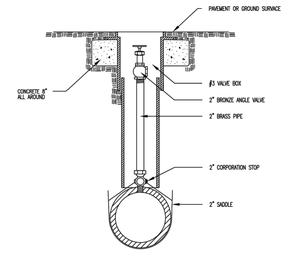
DROP CONNECTION
PRECAST MANHOLE



TYPICAL SECTION

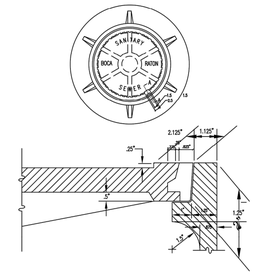
NOTES:
1. CONCRETE FOR MANHOLE BOTTOM SHALL BE 4000 P.S.I. TYPE II.
2. MANHOLE BRICK SHALL CONFORM TO ASTM SPECIFICATION DESIGNATION C32, GRADE MS.

STANDARD DROP
MANHOLE BRICK



NOTES
1. AIR RELEASE RISERS AND VALVE BOX RISERS SHALL BE PLACED AND MAINTAINED IN A VERTICAL POSITION.
2. THREADS TO BE COATED AFTER INSTALLATION WITH BITUMASTIC COATING.
3. CONCRETE COLLOR IS NOT REQUIRED WHEN VALVE IS LOCATED WITHIN NEW PAVEMENT.

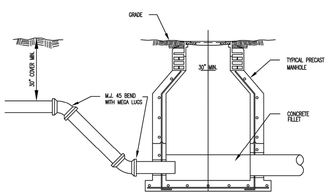
TYPICAL AIR RELEASE
SEWER TRANSMISSION MAIN



SECTION A-A

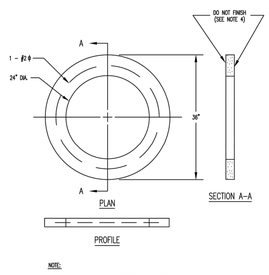
1. LETTERS ON COVER TO BE ARRANGED WITH A RADIUS OF 8.5" TO CENTER OF LETTERS.
2. EACH LETTER TO BE 2" LONG, 3/8" DEEP, 1/4" TO 5/16" THICK, AND FLUSH WITH TOP OF BEADS.
3. BEADS TO BE 3/8" HIGH WITH A RADIUS OF 1/2" AT BOTTOM AND 3/8" AT TOP.
4. ALL BEARING SURFACES TO BE MACHINED (IRON TO IRON).
5. FRAMES AND COVERS MUST CONFORM TO A.S.T.M. DESIGNATION A48, CLASS 30.
6. MIN. WEIGHTS: COVER-140 LBS., FRAME-250 LBS.
7. FRAME AND COVER SHALL BE U.S. FOUNDRY No. 410 OR (OLD No. 32) OR EQUIVALENT.

SANITARY SEWER MANHOLE
FRAME & COVER



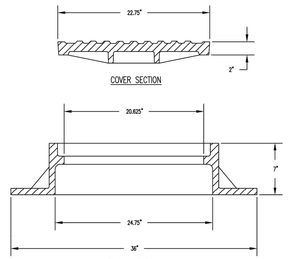
OPENING INTO EXISTING MANHOLE IS TO BE DONE BY CORING METHOD ONLY, IN THE PRESENCE OF CITY INSPECTOR.

FORCE MAIN TIE
INTO MANHOLE



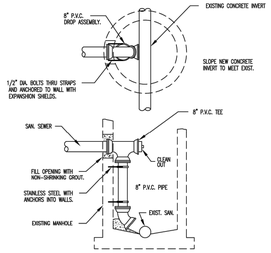
NOTE:
1. USE 4000 P.S.I. CONCRETE, TYPE II CEMENT.
2. USE #2 REINFORCED STEEL CONCRETE, MINIMUM 10" LAP.
3. CEMENT INSIDE AND OUTSIDE WALLS WITH 1/2" CEMENT PLASTER.
4. THE JOINTING SURFACES OF RINGS ARE TO BE ROUGH TO ASSURE MORE PROPER BOND WITH MORTOR.

REINF. CONCRETE ADJ.
RING FOR MANHOLES



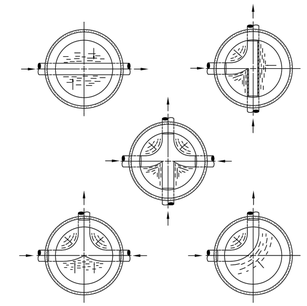
NOTE:
1. MANHOLES LOCATED WITHIN WETTED AREAS OF SWALES AND INVERTED CROWN STREETS SHALL REQUIRE A "WATER PROOF" TYPE FRAME AND COVER EQUAL TO U.S. FOUNDRY No. 410 OR 420 (OLD U.S.F. No. 32)

SANITARY SEWER MANHOLE
FRAME & COVER



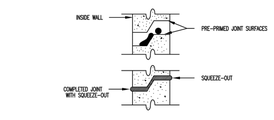
1. INSIDE DROP CONNECTION MAY BE ALLOWED WHEN OTHER ALTERNATIVES OR STANDARD CONNECTIONS ARE NOT PRAKTICABLE OR FEASIBLE AS DETERMINED BY THE DIRECTOR OF PUBLIC UTILITIES.
2. OPENING IN EXISTING MANHOLE IS TO BE DONE BY CORING ONLY.

INSIDE DROP
MANHOLE DETAIL

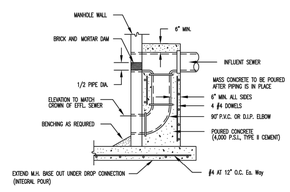


NOTE:
1. PROVIDE SPILLWAY FOR SMOOTH FLOW BETWEEN PIPES WITH DIFFERENT INVERT ELEVATIONS.

PLAN OF MANHOLE BOTTOM
AND FLOW CURVES

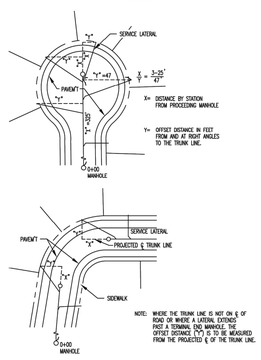


JOINT DETAIL
PRECAST SECTIONS



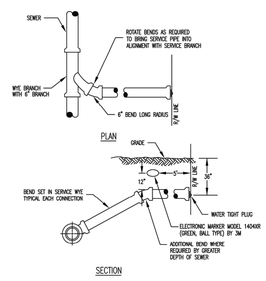
STANDARD DROP CONNECTION

SPECIAL MANHOLE DETAILS

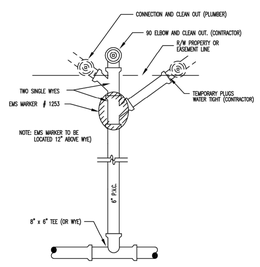


NOTE: WHERE THE TRUNK LINE IS NOT ON ℄ OF ROAD OR WHERE A LATERAL EXTENDS PAST A TERMINAL END MANHOLE, THE OFFSET DISTANCE ("Y") IS TO BE MEASURED FROM THE PROJECTED ℄ OF THE TRUNK LINE.

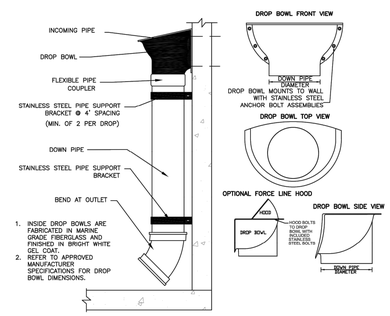
SERVICE LATERAL
LOCATION



TYPICAL HOUSE
SERVICE CONNECTION



DOUBLE SERVICE



1. INSIDE DROP BOWLS ARE FABRICATED IN MARINE GRADE FIBERGLASS AND FINISHED IN BRIGHT WHITE GEL COAT.
2. REFER TO APPROVED MANUFACTURER SPECIFICATIONS FOR DROP BOWL DIMENSIONS.

SANITARY MANHOLE INSIDE DROP BOWL
TYPICAL INSTALLATION

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LON 80° 9'27.71"W
BOCA RATON

SITE II
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POTABLE WATER & SANITARY SEWER DETAILS

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C8.1