DRC
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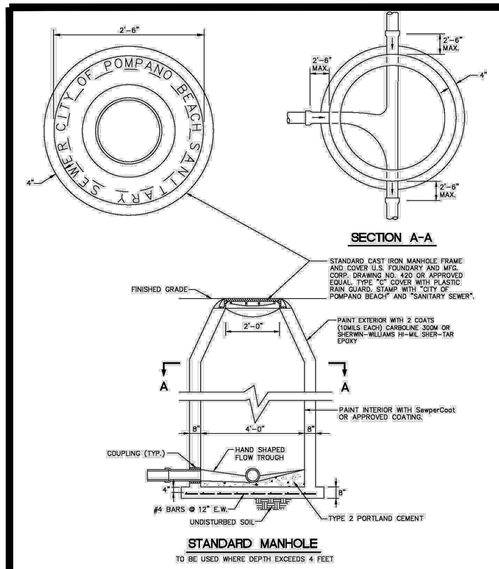
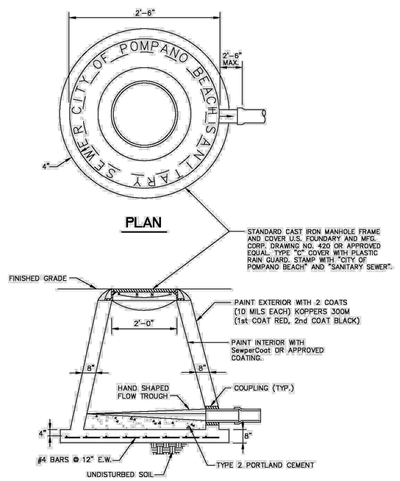
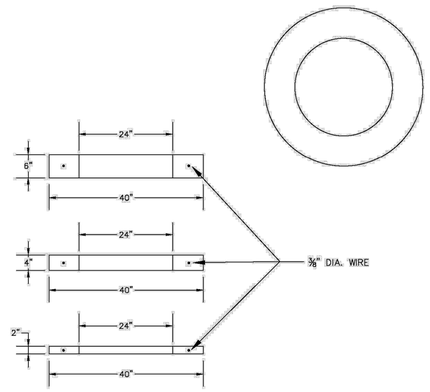
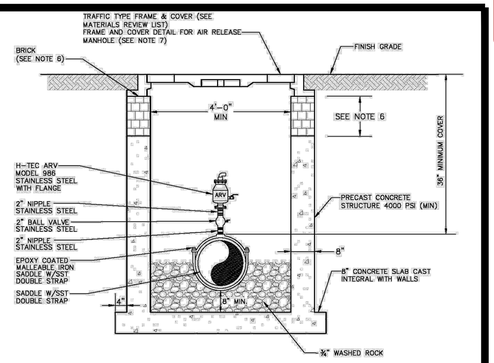






NOTES:
2" 0.054 c.y. / 220 lbs
4" 0.108 c.y. / 430 lbs
6" 0.162 c.y. / 650 lbs



NOTES:
1. BALL VALVE, PIPING, ETC., TO MATCH AIR RELEASE VALVE DIAMETER.
2. MISCELLANEOUS ARV ACCESSORIES SHALL BE SELF-CONTAINED AUTOMATIC PROCESS VALVES.
3. RAMNEK AT ALL RISER JOINTS WITH GROUT ON INSIDE AND OUTSIDE AT ALL RISER JOINTS.
4. MANHOLE FABRICATION SHALL BE IN ACCORDANCE WITH ASTM C-478, LATEST STANDARD.
5. COAT INSIDE AND OUTSIDE OF MANHOLE WITH PROTECTIVE COATINGS.
6. THE CHIMNEY AREA SHALL BE A MINIMUM OF 4" AND A MAXIMUM OF 12" IN HEIGHT. A MINIMUM OF 3 COURSES OF BRICK SHALL BE INSTALLED. SET IN 2 STRIPS OF SEALANT/ADHESIVE COMPOUND ON EACH SEALING FACE.
7. SET MANHOLE FRAME ON 2 STRIPS OF SEALANT PLUS A BED OF PORTLAND CEMENT AND SILICA SAND. BRING MORTAR UP OVER FRAME.

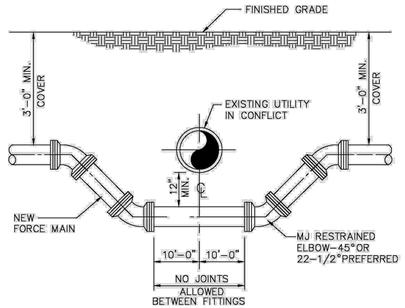
COMBINATION SEWER AIR RELEASE VALVE

ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE: S.S. JUNE 2005; T.W. 11-2007; S.S. 12-2013; A.S. 09-2021	ENGINEERING DIVISION CITY OF POMPANO BEACH	STANDARD MANHOLE	DATE: JUNE 2022 DWG. NO. 215-1
	SCALE: N.T.S.		

ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE: S.S. JUNE 2005; T.W. 11-2007; A.S. 09-2021	ENGINEERING DIVISION CITY OF POMPANO BEACH	SHALLOW TYPE MANHOLE	DATE: JUNE 2022 DWG. NO. 216-1
	SCALE: N.T.S.		

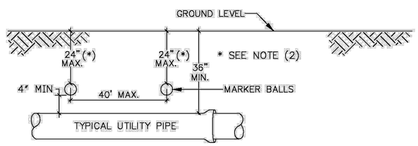
ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE:	ENGINEERING DIVISION CITY OF POMPANO BEACH	CONCRETE GRADE RINGS	DATE: JUNE 2022 DWG. NO. 216-2
	SCALE: N.T.S.		

ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE: A.S. 12/28/22; A.S. 12/11/23	ENGINEERING DIVISION CITY OF POMPANO BEACH	FORCE MAIN MANHOLE	DATE: DEC 2023 DWG. NO. 217-1
	SCALE: N.T.S.		



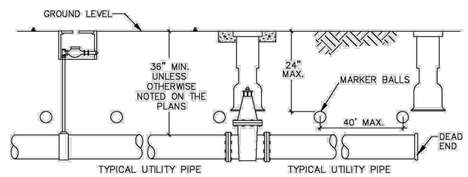
NOTES:
WHERE CONDITIONS PERMIT, PIPE DEFLECTION MAY BE USED INSTEAD OF BENDS TO OBTAIN THE MINIMUM CLEARANCE. FACTORY OFFSETS MAY BE USED.

TYPICAL CONFLICT DETAIL



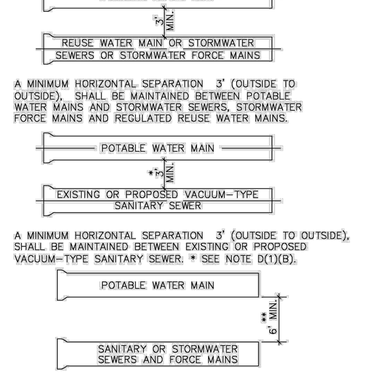
GENERAL NOTES:
1. ALL UTILITY PIPE SHALL BE INSTALLED WITH 4"ø MARKING BALLS PLACED EVERY 40' AND AT EVERY FITTING, FOR IDENTIFICATION AND WARNING PURPOSES, BURIED ABOVE THE PIPE AT A MAXIMUM DEPTH OF 24 INCHES OR AS APPROVED BY THE OWNER. IT SHALL BE COLOR CODED AND WORDED AS FOLLOWS:
   SEWER SYSTEM
   A. COLOR: GREEN
   B. LETTERING: SANITARY SEWER
   C. FREQUENCY OF MARKER BALLS SHALL BE 121.6 Khz.
   D. THE MARKER BALLS CAN BE BURIED IN ANY ORIENTATION.
   THE MARKER BALLS SHALL BE DETECTABLE BY STANDARD METAL DETECTION EQUIPMENT AND SHALL BE MANUFACTURED BY TEMPO OR 3M LOCATOR SYSTEM OR EQUIVALENT (FREQUENCY 121.6 Khz)
2. FOR LARGE DIAMETER PIPE INSTALLED AT DEPTHS BELOW 4'-0" MARKER BALLS SHALL BE PLACED AT A MAXIMUM DEPTH OF 4'-0" BELOW GRADE *.

SEWER PIPE IDENTIFICATION



GENERAL NOTES:
1. ALL NONMETALLIC PIPE SHALL BE INSTALLED WITH 12 THHN SOLID COPPER TRACING WIRE.
2. THE MARKER BALLS MUST BE INSTALLED DIRECTLY ABOVE THE PIPE.
3. MARKER BALLS SHALL BE INSTALLED AT 40' O.C.
4. BALL COLOR CODING:
   SANITARY SEWER SYSTEM: GREEN

UTILITY PIPE AND MARKER BALLS LOCATION



MINIMUM HORIZONTAL SEPARATION REQUIREMENTS FOR POTABLE WATER, REUSE, STORMWATER AND SEWER LINES

ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE: S.S. JUNE 2005; S.S. 02/13/12	ENGINEERING DIVISION CITY OF POMPANO BEACH	TYPICAL CONFLICT (SEWER)	DATE: JUNE 2022 DWG. NO. 206-1
	SCALE: N.T.S.		

ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE: S.S. 01/30/12	ENGINEERING DIVISION CITY OF POMPANO BEACH	SEWER PIPE IDENTIFICATION	DATE: JUNE 2022 DWG. NO. 207-1
	SCALE: N.T.S.		

ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE: S.S. 01/30/12	ENGINEERING DIVISION CITY OF POMPANO BEACH	UTILITY PIPE AND MARKER BALLS LOCATION	DATE: JUNE 2022 DWG. NO. 208-1
	SCALE: N.T.S.		

ENGINEERING STANDARDS 2025			
REVISIONS BY / DATE: S.S. 01/30/12	ENGINEERING DIVISION CITY OF POMPANO BEACH	MIN. HORIZONTAL SEPARATION FOR SANITARY SEWER	DATE: JUNE 2022 DWG. NO. 209-1
	SCALE: N.T.S.		

No.	REVISIONS	DATE	BY

Kimley»Horn
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PHONE: 954-535-5100 FAX: 954-739-2247
WWW.KIMLEY-HORN.COM REGISTRY No. 35106

GIOVANNI VALERON FERNANDEZ — LICENSE No 97495 — STATE OF FLORIDA — PROFESSIONAL ENGINEER
DATE: 11/21/2025

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY GIOVANNI VALERON FERNANDEZ ON THE DATE ADJACENT TO THE SEAL. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

KHA PROJECT	
043175014	
DATE	11/6/2025
SCALE	AS SHOWN
DESIGNED BY	GVF
DRAWN BY	EA
CHECKED BY	GVF

WATER & SEWER DETAILS

MODERA POMPANO BEACH
PREPARED FOR
MCRT INVESTMENTS LLC
FLORIDA
POMPANO BEACH

SHEET NUMBER
C-405

Plotted By:Fernandez, Giovanni Sheet Set:MILLCREEK-POMPANO Layout:C-405 WATER & SEWER DETAILS November 21, 2025 04:06:13pm K:\FTL_Civil\043 jobs\043175014 Mill Creek Pompano\Design\CADD\PlanSheets\C-UTIL-DETL.dwg
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