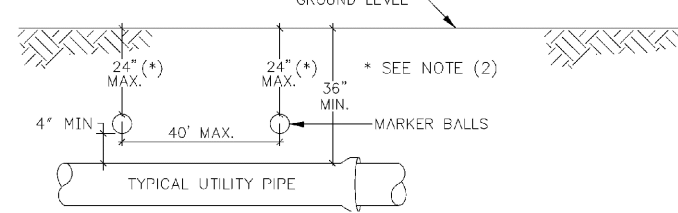


NOTES:
WHEN CONDITIONS PERMIT, PIPE DEFLECTION MAY BE USED INSTEAD OF BRIDS TO OBTAIN THE MINIMUM CLEARANCE. FACTORY OFFSETS MAY BE USED.

TYPICAL CONFLICT DETAIL

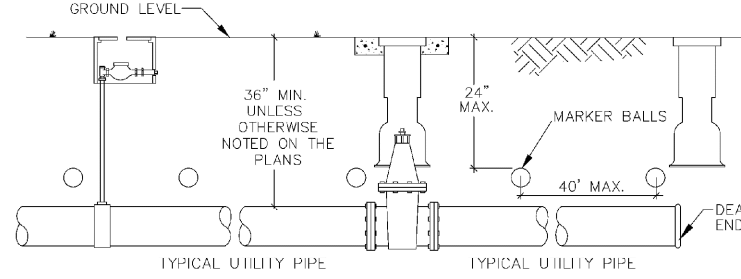
ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	DESCRIPTION
BY	DATE		
S.S.	JUNE 2022		ENGINEERING DIVISION
S.S.	06/23/22		CITY OF POMPANO BEACH
SCALE: N.T.S.			TYPICAL CONFLICT (SEWER)
			DATE: JUNE 2022
			DWG. NO. 206-1



GENERAL NOTES:
1. ALL UTILITY PIPE SHALL BE INSTALLED WITH 4" MARKER BALLS PLACED EVERY 40' AND A LIGHT FITTING FOR IDENTIFICATION AND MARKING PURPOSES. BUILT-UP JOINTS, THE PIPE AT A MAXIMUM DEPTH OF 24 INCHES OR AS APPROVED BY THE OWNER. IT SHALL BE COLOR CODED AND MARKED AS FOLLOWS:
SEWER SYSTEM:
A. COLOR: GREEN
B. IF FITTING: SANITARY SEWER
C. FREQUENCY OF MARKER BALLS SHALL BE 121/6 KHZ.
D. THE MARKER BALLS CAN BE BORED IN ANY DIRECTION.
THE MARKER BALLS SHALL BE DEFECTORY BY STANDARD METAL FITTING 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

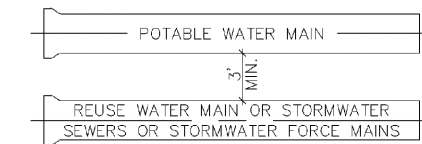
ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	DESCRIPTION
BY	DATE		
S.S.	06/23/22		ENGINEERING DIVISION
S.S.	06/23/22		CITY OF POMPANO BEACH
SCALE: N.T.S.			SEWER PIPE IDENTIFICATION
			DATE: JUNE 2022
			DWG. NO. 207-1



GENERAL NOTES:
1. ALL NONMETALLIC PIPE SHALL BE INSTALLED WITH 12 THIN SOLID COPPER TRACING WIRE.
2. THE MARKER BALLS MUST BE INSTALLED DIRECTLY ABOVE THE PIPE.
3. MARKER BALLS SHALL BE 4" IN DIAMETER AND SHALL BE MANUFACTURED BY TEMPO OR 3M LOCATOR SYSTEM OR EQUIVALENT (FREQUENCY 121/6 KHZ.)
4. BALL COLOR CODING:
SANITARY SEWER SYSTEM: GREEN

UTILITY PIPE AND MARKER BALLS LOCATION

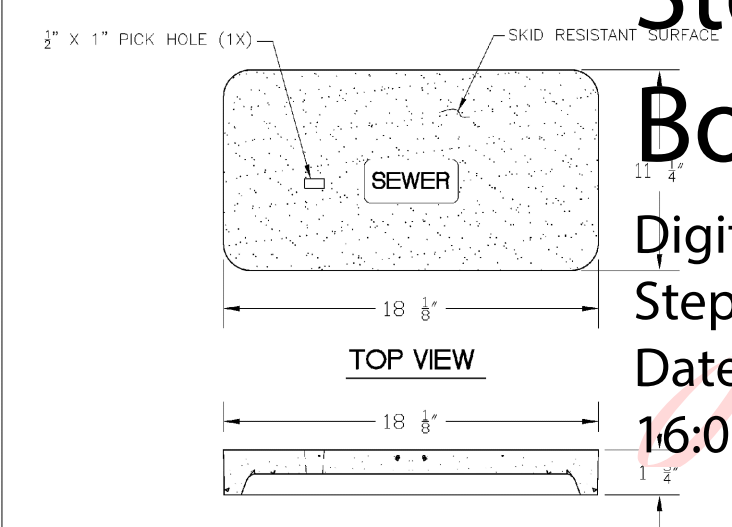
ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	DESCRIPTION
BY	DATE		
S.S.	06/23/22		ENGINEERING DIVISION
S.S.	06/23/22		CITY OF POMPANO BEACH
SCALE: N.T.S.			UTILITY PIPE AND MARKER BALLS LOCATION
			DATE: JUNE 2022
			DWG. NO. 208-1



A MINIMUM HORIZONTAL SEPARATION 3' (OUTSIDE TO OUTSIDE) SHALL BE MAINTAINED BETWEEN POTABLE WATER MAINS AND STORMWATER SEWERS, STORMWATER FORCE MAINS AND REGULATED REUSE WATER MAINS.
A MINIMUM HORIZONTAL SEPARATION 3' (OUTSIDE TO OUTSIDE) SHALL BE MAINTAINED BETWEEN POTABLE WATER MAINS AND EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER. * SEE NOTE D(1)(B).
A MINIMUM HORIZONTAL SEPARATION OF 6' (OUTSIDE TO OUTSIDE) SHALL BE MAINTAINED BETWEEN POTABLE WATER MAINS AND EXISTING OR PROPOSED GRAVITY-OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN OR NOT REGULATED REUSE WATER MAIN. * SEE NOTE D(1)(C).

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

ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	DESCRIPTION
BY	DATE		
S.S.	06/23/22		ENGINEERING DIVISION
S.S.	06/23/22		CITY OF POMPANO BEACH
SCALE: N.T.S.			MIN. HORIZONTAL SEPARATION FOR SANITARY SEWER
			DATE: JUNE 2022
			DWG. NO. 209-1

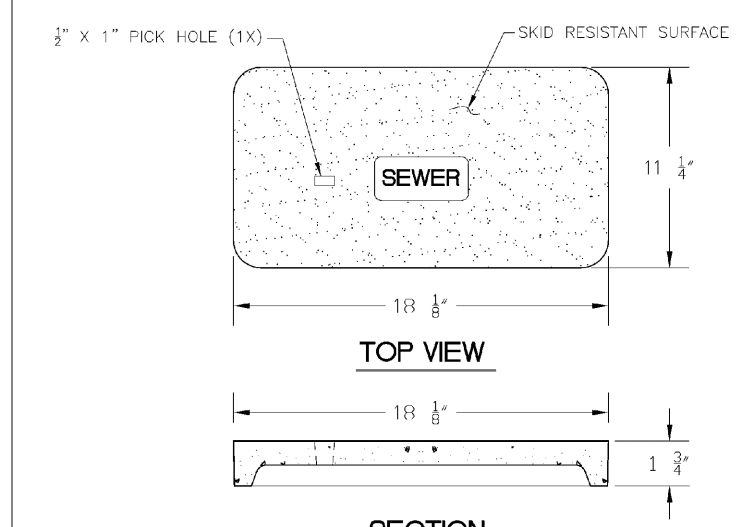


NOTE:
1. MATERIAL: FIBERGLASS REINFORCED POLYMER CONCRETE & FIBERGLASS REINFORCED POLYMER
2. CO. OR. GREEN
3. LOAD RATING: AS (ASTM C857)
4. LOAD: SEWER

SEWER BOX AND COVER

PRODUCT RATING - NON TRAFFIC			
LOAD DESIGNATION	DESCRIPTION	DESIGN LOADS (LIVE & IMPACT) (LIVE & IMPACT) (LIVE & IMPACT)	TESTING
AASHTO H10	TRAFFIC	8,000	22,568 (4)
		10,400	282

ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	DESCRIPTION
BY	DATE		
S.S.	JUNE 2022		ENGINEERING DIVISION
S.S.	06/23/22		CITY OF POMPANO BEACH
SCALE: N.T.S.			SEWER BOX AND COVER
			DATE: JUNE 2022
			DWG. NO. 210-1

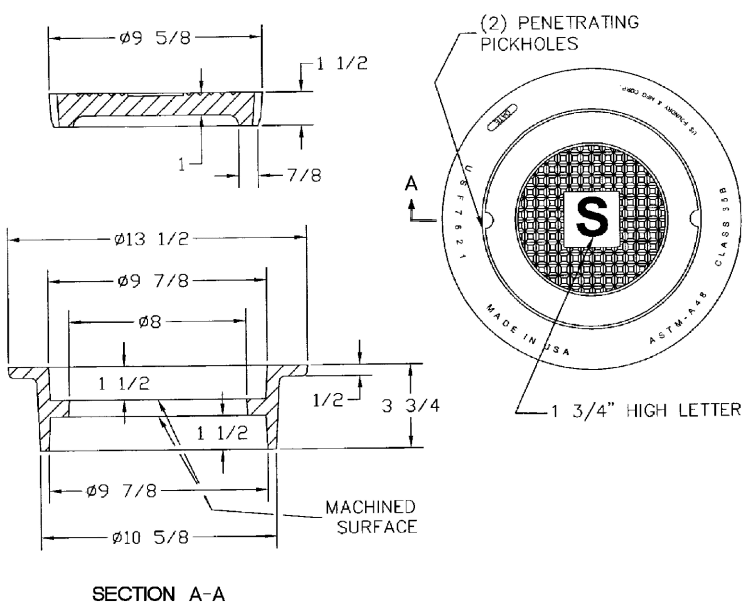


NOTE:
1. MATERIAL: FIBERGLASS REINFORCED POLYMER CONCRETE & FIBERGLASS REINFORCED POLYMER
2. CO. OR. GREEN
3. LOAD RATING: AS (ASTM C857)
4. LOAD: SEWER

SEWER BOX AND COVER

PRODUCT RATING - TRAFFIC			
LOAD DESIGNATION	DESCRIPTION	DESIGN LOADS (LIVE & IMPACT) (LIVE & IMPACT) (LIVE & IMPACT)	TESTING
AASHTO H15	MEDIUM TRUCK TRAFFIC	12,000	27,000 (5)
		15,600	225

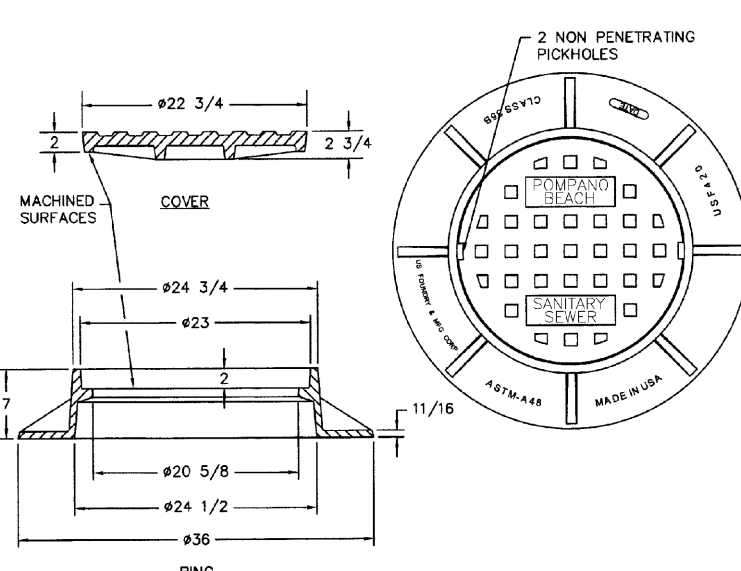
ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	DESCRIPTION
BY	DATE		
S.S.	JUNE 2022		ENGINEERING DIVISION
S.S.	06/23/22		CITY OF POMPANO BEACH
SCALE: N.T.S.			SEWER BOX AND COVER
			DATE: JUNE 2022
			DWG. NO. 210-2



NOTE:
1. MATERIAL: Gray Cast Iron
ASTM-A48 Class 35B

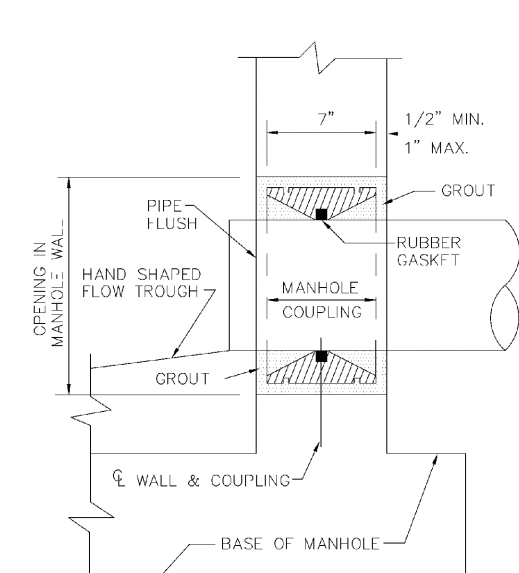
SEWER BOX AND COVER - HEAVY TRAFFIC

ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	DESCRIPTION
BY	DATE		
S.S.	06/23/22		ENGINEERING DIVISION
S.S.	06/23/22		CITY OF POMPANO BEACH
SCALE: N.T.S.			SEWER BOX AND COVER
			DATE: JUNE 2022
			DWG. NO. 210-3



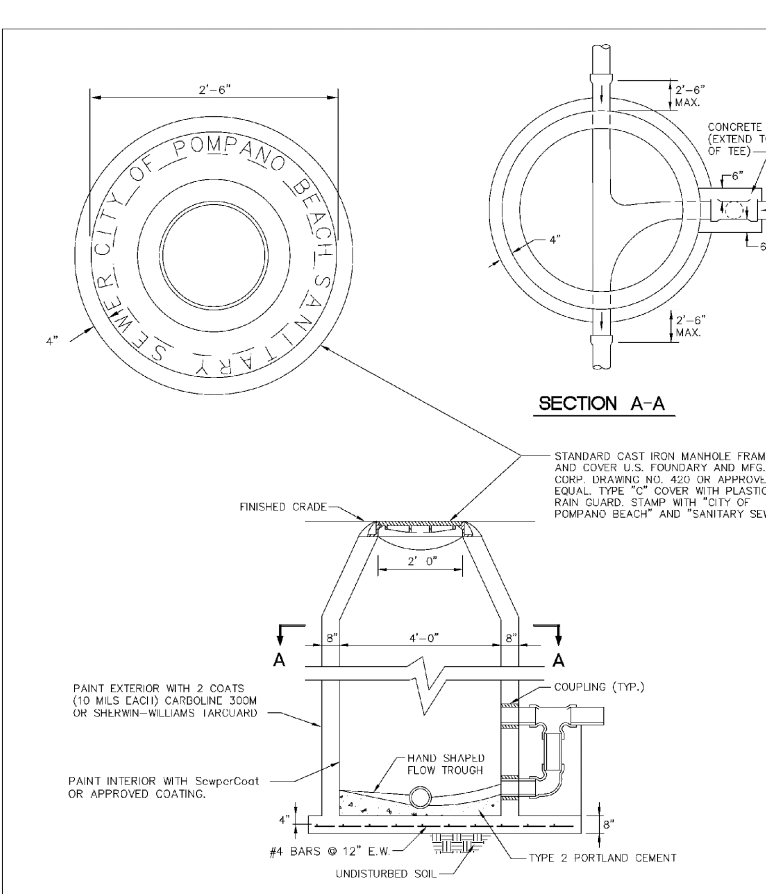
TRAFFIC RATED FRAME & COVER

ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	DESCRIPTION
BY	DATE		
S.S.	JUNE 2022		ENGINEERING DIVISION
S.S.	06/23/22		CITY OF POMPANO BEACH
SCALE: N.T.S.			TRAFFIC RATED SEWER COVER
			DATE: JUNE 2022
			DWG. NO. 211-1



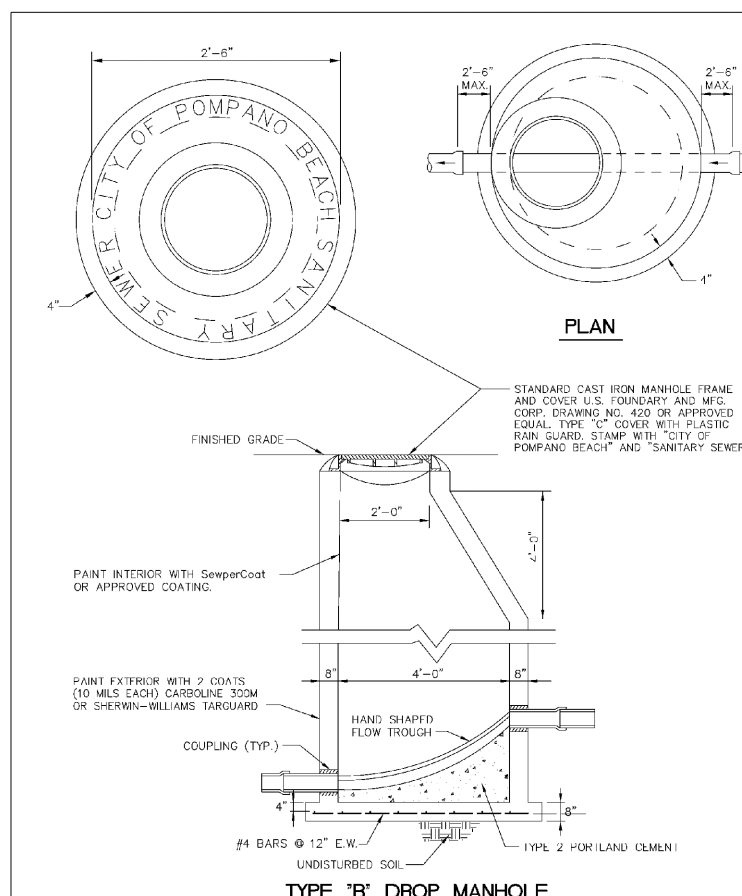
MANHOLE COUPLING

ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	DESCRIPTION
BY	DATE		
S.S.	JUNE 2022		ENGINEERING DIVISION
S.S.	06/23/22		CITY OF POMPANO BEACH
SCALE: N.T.S.			MANHOLE COUPLING
			DATE: JUNE 2022
			DWG. NO. 212-1



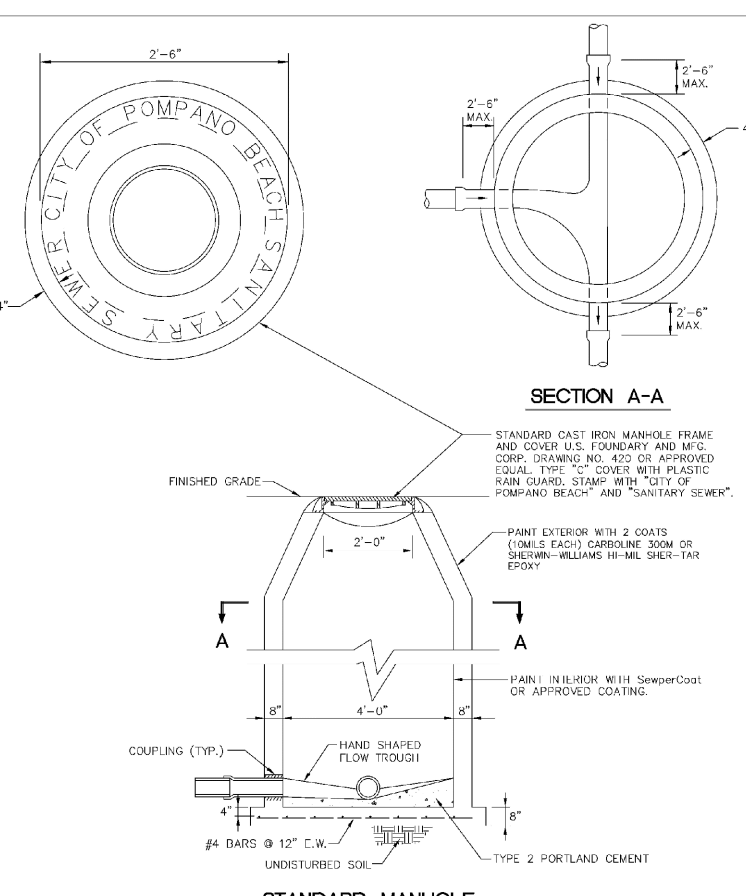
TYPE 'A' DROP MANHOLE

ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	DESCRIPTION
BY	DATE		
S.S.	JUNE 2022		ENGINEERING DIVISION
S.S.	06/23/22		CITY OF POMPANO BEACH
SCALE: N.T.S.			TYPE 'A' DROP MANHOLE
			DATE: JUNE 2022
			DWG. NO. 213-1



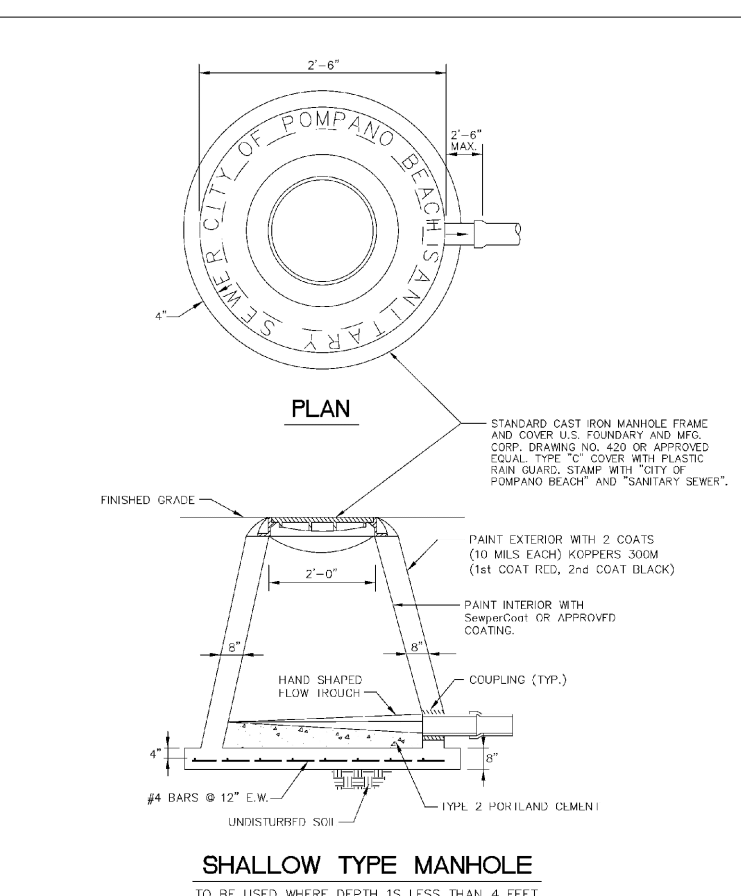
TYPE 'B' DROP MANHOLE

ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	DESCRIPTION
BY	DATE		
S.S.	JUNE 2022		ENGINEERING DIVISION
S.S.	06/23/22		CITY OF POMPANO BEACH
SCALE: N.T.S.			TYPE 'B' DROP MANHOLE
			DATE: JUNE 2022
			DWG. NO. 214-1



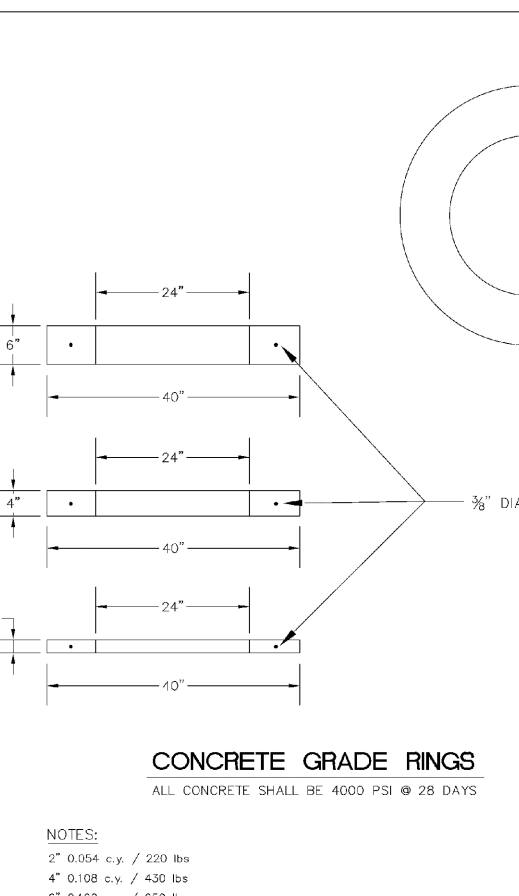
STANDARD MANHOLE

ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	DESCRIPTION
BY	DATE		
S.S.	JUNE 2022		ENGINEERING DIVISION
S.S.	06/23/22		CITY OF POMPANO BEACH
SCALE: N.T.S.			STANDARD MANHOLE
			DATE: JUNE 2022
			DWG. NO. 215-1



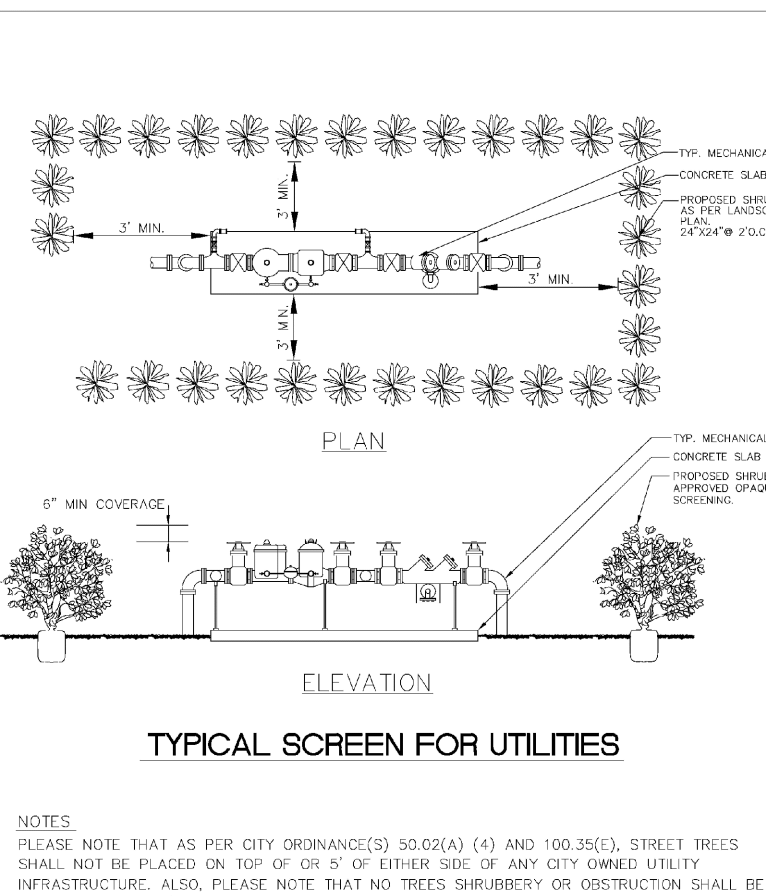
SHALLOW TYPE MANHOLE

ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	DESCRIPTION
BY	DATE		
S.S.	JUNE 2022		ENGINEERING DIVISION
S.S.	06/23/22		CITY OF POMPANO BEACH
SCALE: N.T.S.			SHALLOW TYPE MANHOLE
			DATE: JUNE 2022
			DWG. NO. 216-1



CONCRETE GRADE RINGS

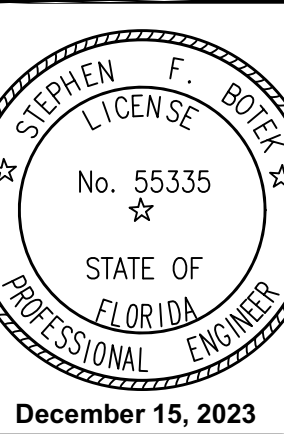
ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	DESCRIPTION
BY	DATE		
S.S.	JUNE 2022		ENGINEERING DIVISION
S.S.	06/23/22		CITY OF POMPANO BEACH
SCALE: N.T.S.			CONCRETE GRADE RINGS
			DATE: JUNE 2022
			DWG. NO. 216-2



TYPICAL SCREEN FOR UTILITIES

ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	DESCRIPTION
BY	DATE		
S.S.	JUNE 2022		ENGINEERING DIVISION
S.S.	06/23/22		CITY OF POMPANO BEACH
SCALE: N.T.S.			TYPICAL SCREEN FOR UTILITIES
			DATE: JUNE 2022
			DWG. NO. 315-1

BTE REF DATE: 12-15-2023			
REVISIONS	DATE	BY	DESCRIPTION
#			



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Celebrating 15 Years

WATER AND SANITARY SEWER DETAILS
POMPANO HOTEL
101 SOUTH OCEAN BOULEVARD
POMPANO BEACH, FL

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BTE PROJECT #:
23-0701

PROJECT DATE:
09-05-2023

SHEET #:
C-5

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PZ23-12000042
02/07/2024