

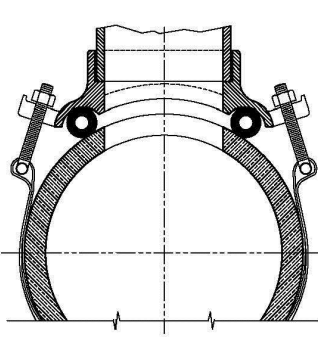
PROTECTION OF POTABLE WATER SUPPLY NOTES

- A. GENERAL
- IN ADDITION TO THESE REQUIREMENTS, ALL POTABLE WATER MAINS CONSTRUCTED IN THE VICINITY OF STORM SEWERS, SANITARY SEWERS OR FORCE MAINS SHALL COMPLY WITH THE APPLICABLE PROVISIONS OF FLORIDA ADMINISTRATIVE CODE CHAPTER 62-555, GREAT LAKES-UPPER MISSISSIPPI RIVER BOARD OF STATE SANITARY ENGINEERS (GLUMRB) "RECOMMENDED STANDARDS FOR WATER WORKS", AND GLUMRB "RECOMMENDED STANDARDS FOR WASTEWATER FACILITIES".
- B. DEFINITIONS
- FOR THE PURPOSES OF THIS SPECIFICATION, THE WORDS "OTHER PIPE" OR "OTHER PIPES" SHALL MEAN SANITARY SEWER MAIN, SEWAGE FORCE MAIN, STORMWATER MAIN OR ANY COMBINATION THEREOF.
- C. CROSS CONNECTIONS PROHIBITED
- THERE SHALL BE NO PHYSICAL CONNECTIONS BETWEEN A PUBLIC OR PRIVATE POTABLE WATER SUPPLY SYSTEM AND ANY OTHER PIPE OR APPURTENANCE THERETO WHICH WOULD PERMIT THE PASSAGE OF ANY WASTEWATER, POLLUTED WATER OR ANY OTHER WATER INTO THE POTABLE SUPPLY. NO WATER PIPE SHALL PASS THROUGH OR COME INTO CONTACT WITH ANY PART OF A SANITARY SEWER MAINHOLE OR STORMWATER MAINHOLE.
- D. RELATION OF OTHER PIPES TO POTABLE WATER MAINS
1. HORIZONTAL SEPARATION
- A. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM WATER, STORM WATER FORCE MAIN, OR PIPELINE CONVEYING REUSE WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610,F.A.C.
- B. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.
- C. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-OR PRESSURE-TYPE SANITARY SEWER, WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING REUSE WATER NOT REGULATED UNDER CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY TYPE SEWERS SHALL BE REDUCED TO THREE FEET WHERE THE BOTTOM OF THE WATER IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.

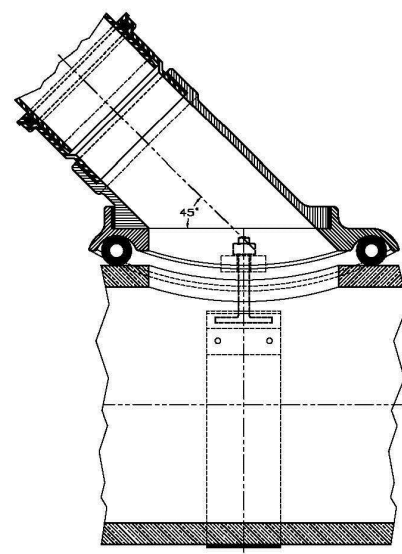
ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	ENGINEERING DIVISION
	S.S.	01/7/22	CITY OF POMPAÑO BEACH
			SCALE: N.T.S.
			POTABLE WATER SUPPLY NOTES
			DATE: JAN. 2022 DWG. NO. 122-2

INLET: GASKETED BELL - SDR 35 PVC

Base Coating is ASTM A-48 Class 30 Cast Iron
(When Coating is not in place - SDR 35 Bell)
PVC Adapter is an ASTM D3034, SDR-35 Gasketed Bell
Coatings and Adapter cemented permanently in place with two-part urethane adhesive
Base of Saddle dip-coated in Waterbased Blumoxon Coating
Strip is 24 g/sq. x 1.2" wide Type 304 Stainless Steel
Strip Pins are .75" dia. Type 304 Stainless Steel
T-Bolts are .375" - 16 Type 304 Stainless Steel
Nuts and Washers are Type 18-8 Stainless Steel
O-Ring is ASTM C-361-77 Tubular Polyurethane
4" Inlet requires a 4" x 6.925" oval top in the Sewer Main
6" Inlet requires a 6" x 8.925" oval top in the Sewer Main
(Sewer Main must be at least 8" dia.)
Note: This Dwg. supersedes Dwg. No. R-3457-01



VIEW 1



VIEW 2

WYE GRAVITY SEWER SADDLE

TO BE USED WHEN A SEWER MAIN HAS BEEN LINED WITH A CURED IN PLACE MATERIAL.

ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	ENGINEERING DIVISION
			CITY OF POMPAÑO BEACH
			SCALE: N.T.S.
			WYE GRAVITY SEWER SADDLE
			DATE: MAY 2022 DWG. NO. 201-2

- D. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM".
2. VERTICAL SEPARATION
- A. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY-OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES ABOVE OR PREFERABLY 12 INCHES ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
- B. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORM WATER FORCE MAIN, OR PIPELINE CONVEYING REUSE WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.
- C. AT THE UTILITY CROSSINGS DESCRIBED IN PARAGRAPHS (A) AND (B) ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS, THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORM WATER FORCE MAINS, OR PIPELINES CONVEYING REUSE WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY- OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING REUSE WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.
- WHERE THE HORIZONTAL CAN BEING LOCATED LESS THAN THE REQUIRED MINIMUM DISTANCES FROM JOINTS IN THE OTHER PIPELINE OR THE HORIZONTAL IS LESS THAN THREE FEET FROM ANOTHER PIPELINE OR THE UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND IS LESS THAN THE REQUIRED MINIMUM VERTICAL DISTANCE FROM THE OTHER PIPELINE, THE CONTRACTOR SHALL CONTACT THE ENGINEER IMMEDIATELY FOR RECOMMENDED SOLUTIONS TO MEET THE FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION REQUIREMENTS PER CHAPTER 62-555, F.A.C.

PROTECTION OF POTABLE WATER SUPPLY NOTES

ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	ENGINEERING DIVISION
	S.S.	01/7/22	CITY OF POMPAÑO BEACH
			SCALE: N.T.S.
			POTABLE WATER SUPPLY NOTES
			DATE: JAN. 2022 DWG. NO. 122-3

Adjustable Repair Coupling



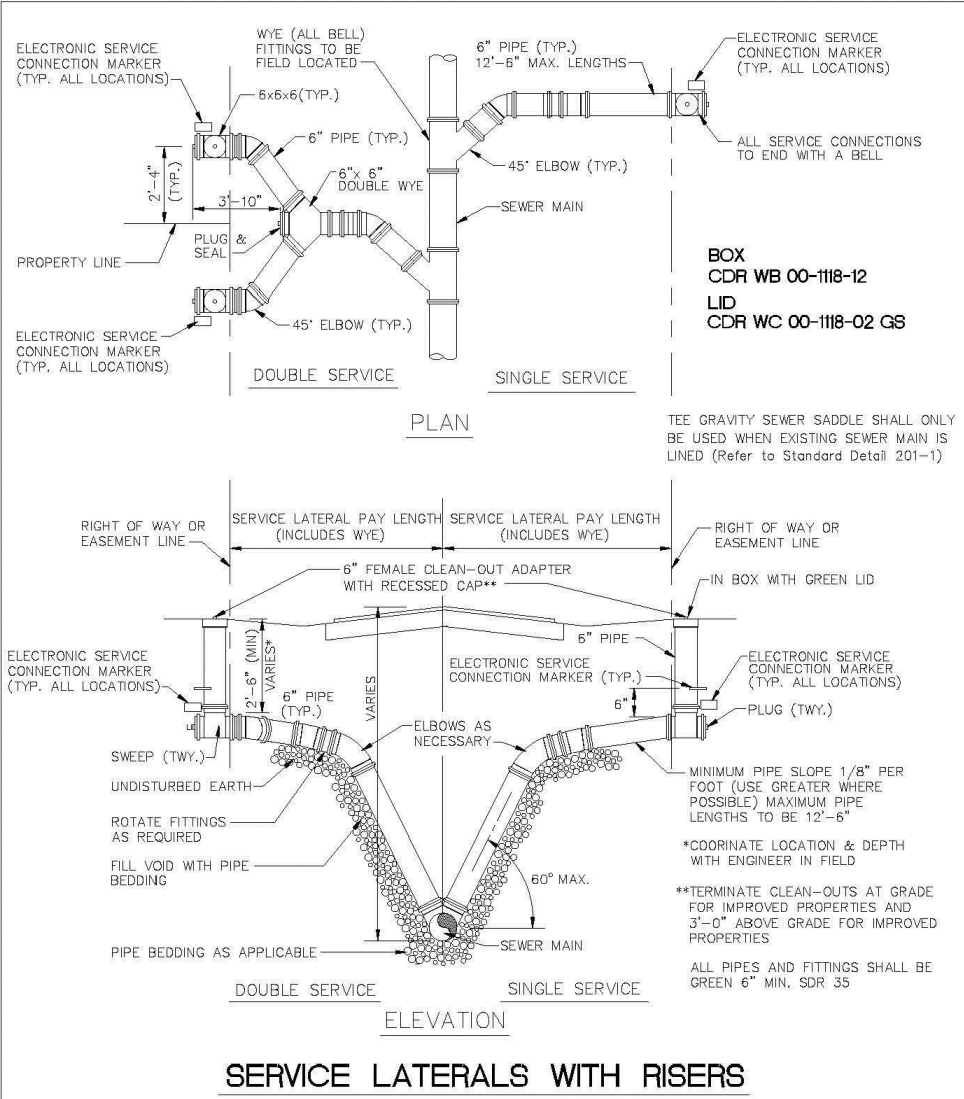
NOTES

- Synthetic rubber gasket is strong, durable and resilient to ultraviolet rays, ozone, fungus growth and normal sewer gases. More pliable and easier to install in cold weather applications than an Elastomeric PVC gasket.
- Sealing "O" rings under the clamp prevent pipe slippage and create a more positive seal.
- More transition couplings for dissimilar pipe types and sizes are comprised of a one-piece transition gasket, eliminating the use of bushings that are difficult to install and easy to lose on the job site.
- Surgical Grade 316 stainless steel Nut & Bolt clamps are corrosion resistant, providing outstanding protection in severe environments such as marine applications, poorly aerated or moist soils, contaminated ground conditions (particularly industrial fill sites) and where the ground water contains chloride, sulfates or bicarbonates. Increased band tension of the Nut & Bolt clamp ensures a leak-proof, root-proof seal that is resistant to both infiltration and exfiltration.
- Series 300 stainless steel shear band is the heaviest in the industry, over 33% thicker than the competition.
- Broadest range of couplings on the market in sizes ranging from 1 1/2" to 96" in diameter. Used for the alteration and rehabilitation of gravity-flow sewage pipes made of clay, cast iron, plastic, concrete, ductile iron, asbestos cement, fiber cement and truss pipe.

Specification:
Furnish and install stainless steel shielded sewer couplings, as manufactured by Mission Rubber Company. Coupling to meet ASTM C 1173. Gasket to meet ASTM C 425 Table 2, to be rubber and be environmentally certified. Series 300 stainless steel shear band with a minimum thickness of .012". Surgical grade 316 stainless steel clamps with nut & bolt take up, shear ring and clamps to meet all requirements of ASTM A 240. All stainless steel parts and clamping mechanisms to be manufactured in the U.S.A. Transitional sizes to utilize a one piece gasket.

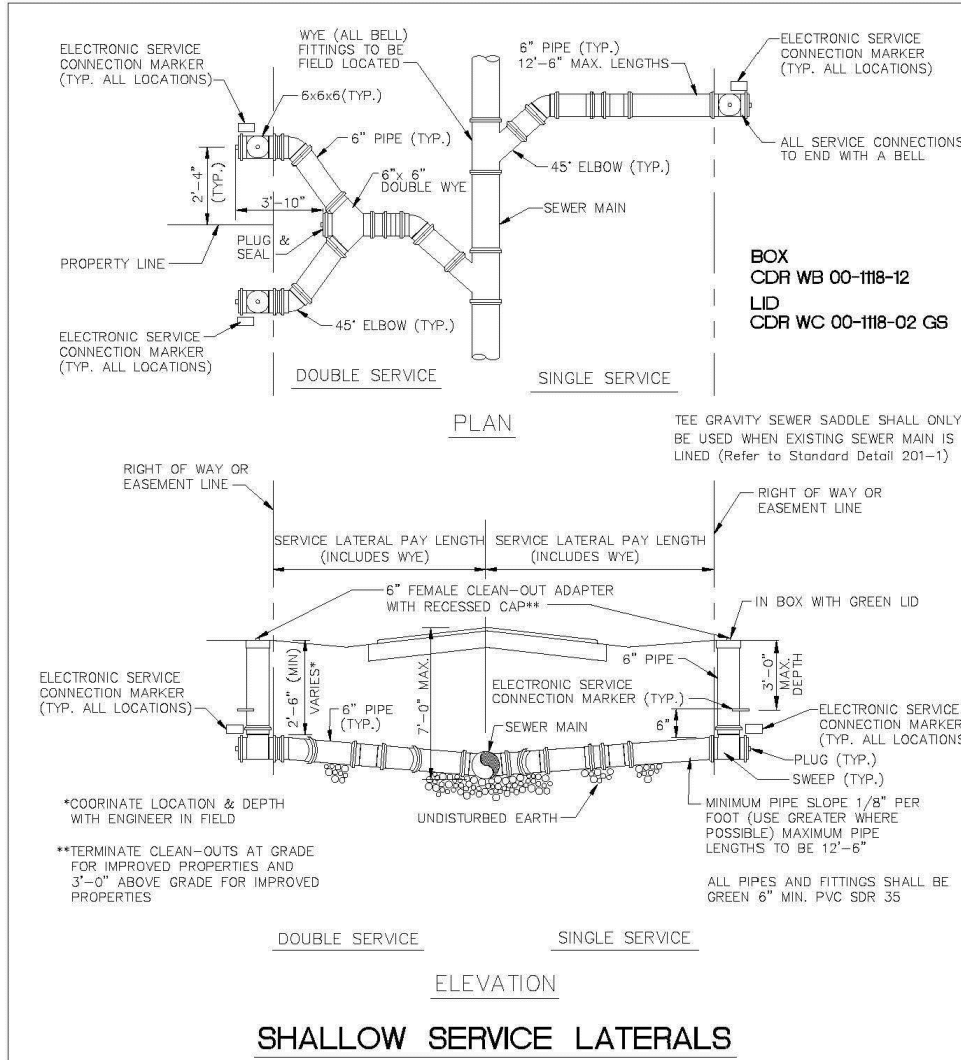
ADJUSTABLE REPAIR COUPLING PVC/CLAY NOTES

ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	ENGINEERING DIVISION
			CITY OF POMPAÑO BEACH
			SCALE: N.T.S.
			ADJUSTABLE REPAIR COUPLING
			DATE: MAY 2022 DWG. NO. 202-1



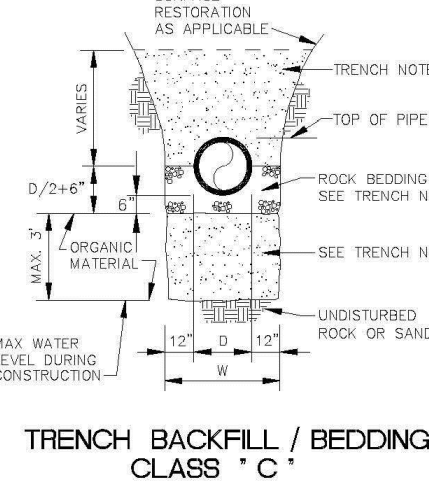
SERVICE LATERALS WITH RISERS

ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	ENGINEERING DIVISION
	T.W.	11-2007	CITY OF POMPAÑO BEACH
	S.S.	07/20/72	
	S.S.	07/19/75	
	S.S.	02/05/16	
			SCALE: N.T.S.
			SERVICE LATERALS
			DATE: JUNE 2022 DWG. NO. 200-1

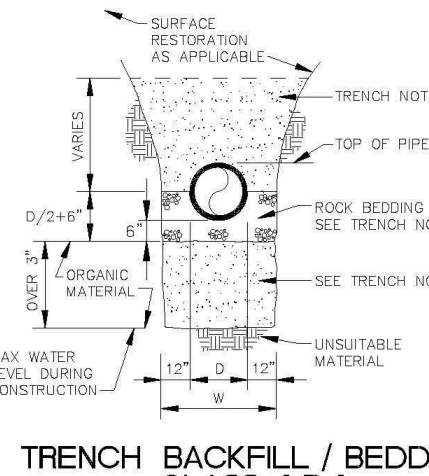


SHALLOW SERVICE LATERALS

ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	ENGINEERING DIVISION
	T.W.	11-2007	CITY OF POMPAÑO BEACH
	S.S.	07/20/72	
	S.S.	07/19/75	
	S.S.	02/10/16	
			SCALE: N.T.S.
			SERVICE LATERALS
			DATE: JUNE 2022 DWG. NO. 200-2



TRENCH BACKFILL / BEDDING CLASS 'B'



TRENCH BACKFILL / BEDDING CLASS 'C'

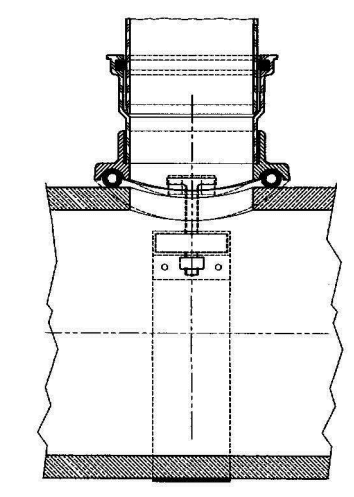
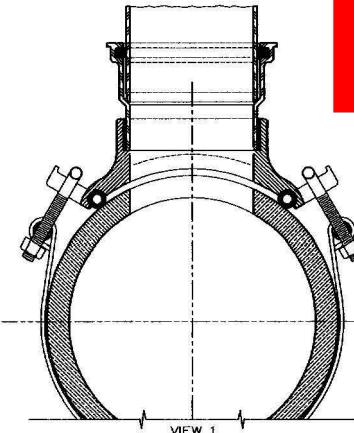
ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	ENGINEERING DIVISION
	S.S.	JUNE 2009	CITY OF POMPAÑO BEACH
			SCALE: N.T.S.
			TRENCH BACKFILL / BEDDING
			DATE: JUNE 2022 DWG. NO. 203-1

ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	ENGINEERING DIVISION
	S.S.	JUNE 2009	CITY OF POMPAÑO BEACH
			SCALE: N.T.S.
			TRENCH BACKFILL / BEDDING
			DATE: JUNE 2022 DWG. NO. 203-2

ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	ENGINEERING DIVISION
	S.S.	JUNE 2009	CITY OF POMPAÑO BEACH
			SCALE: N.T.S.
			TRENCH BACKFILL / BEDDING
			DATE: JUNE 2022 DWG. NO. 203-3

INLET: GASKETED BELL - SDR 35 PVC

Base Coating is ASTM A-48 Class 30 Cast Iron
(When Coating is not in place - SDR 35 Bell)
PVC Adapter is an ASTM D3034, SDR-35
Coatings and Adapter cemented permanently in place with two-part urethane adhesive
Base of Saddle is dip-coated in a Waterbased Blumoxon Coating
Strip is 24 g/sq. x 2.5" wide Type 304 Stainless Steel
Strip Pins are .75" dia. Type 304 Stainless Steel
T-Bolts are .375" - 16 Type 304 Stainless Steel
Nuts and Washers are Type 18-8 Stainless Steel
O-Ring is ASTM C-361-77 Tubular Polyurethane
4" Inlet requires a 4" dia. Top in the Sewer Main
6" Inlet requires a 6" dia. Top in the Sewer Main
(Sewer Main must be at least 8" dia.)
Note: This Dwg. supersedes Dwg. No. R-3458-02



TEE GRAVITY SEWER SADDLE

TO BE USED WHEN A SEWER MAIN HAS BEEN LINED WITH A CURED IN PLACE MATERIAL.

ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	ENGINEERING DIVISION
	S.S.	11/23/74	CITY OF POMPAÑO BEACH
			SCALE: N.T.S.
			TEE GRAVITY SEWER SADDLE
			DATE: MAY 2022 DWG. NO. 201-1

- OUTLINE OF TRENCH EXCAVATION IS FOR ILLUSTRATIVE PURPOSES ONLY. ACTUAL TRENCH WIDTH AND SHAPE WILL VARY WITH SOIL CONDITIONS. TRENCH EXCAVATION SHALL BE IN ACCORDANCE WITH THE "FLORIDA TRENCH SAFETY ACT" AND OSHA TRENCH SAFETY STANDARDS.
- TYPICAL TRENCH BACKFILL/BEDDING FOR WATER MAIN AND FORCE MAIN INSTALLATIONS SHALL BE CLASS "A" AS SHOWN IN DETAIL.
- TYPICAL TRENCH BACKFILL/BEDDING FOR GRAVITY SEWER INSTALLATION SHALL BE CLASS "B" AS SHOWN IN DETAIL.
- TRENCH BACKFILL/BEDDING CLASS "C" AND CLASS "D" SHALL BE USED FOR PIPE INSTALLATIONS WHERE UNSUITABLE MATERIALS ARE ENCOUNTERED.
- TRENCH ZONE BACKFILL SHALL BE MATERIAL TYPE 1 OR TYPES A THRU H, OR ANY MIXTURE THEREOF, WHERE SURFACE RESTORATION TYPE "1" IS APPLICABLE. TRENCH ZONE BACKFILL SHALL BE PLACED IN 12" LIFTS, COMPACTED TO 90% OF THE MATERIAL'S MAXIMUM DENSITY AS DETERMINED BY ASTM D-697 (AASHTO T-99), WHERE SURFACE RESTORATION TYPES "2", "3" AND "4" ARE APPLICABLE. TRENCH BACKFILL SHALL BE PLACED IN 8" LIFTS COMPACTED TO 98% OF THE MATERIAL'S DENSITY AS DETERMINED BY ASTM D-698 (AASHTO T-99).
- BEDDING MATERIAL FOR TYPICAL WATER MAIN AND FORCE MAIN INSTALLATION SHALL BE TYPE C. BEDDING SHALL BE COMPACTED TO 95% OF THE MATERIAL'S MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557 (AASHTO T-180).
- BEDDING MATERIAL FOR TYPICAL GRAVITY SEWER INSTALLATION AND ANY INSTALLATION WHERE UNSUITABLE TRENCH BOTTOM CONDITIONS ARE FOUND SHALL BE TYPE E. BEDDING SHALL BE PLACED IN LIFTS NOT TO EXCEED 6" AND COMPACTED TO 95% OF THE MATERIAL'S MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557 (AASHTO T-180).
- UNSUITABLE MATERIAL SHALL BE REMOVED TO UNDISTURBED ROCK OR SAND OR TO DEPTH AS SPECIFIED BY ENGINEER. BACKFILL MATERIAL SHALL BE TYPE C. BACKFILL SHALL BE PLACED IN 8" LIFTS COMPACTED TO 95% OF THE MATERIAL'S MAXIMUM DENSITY AS DETERMINED BY ASTM D-1557 (AASHTO T-180).

TRENCH BACKFILL / BEDDING NOTES

ENGINEERING STANDARDS 2022			
REVISIONS	BY	DATE	ENGINEERING DIVISION
			CITY OF POMPAÑO BEACH
			SCALE: N.T.S.
			TRENCH BACKFILL / BEDDING
			DATE: JUNE 2022 DWG. NO. 203-3

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