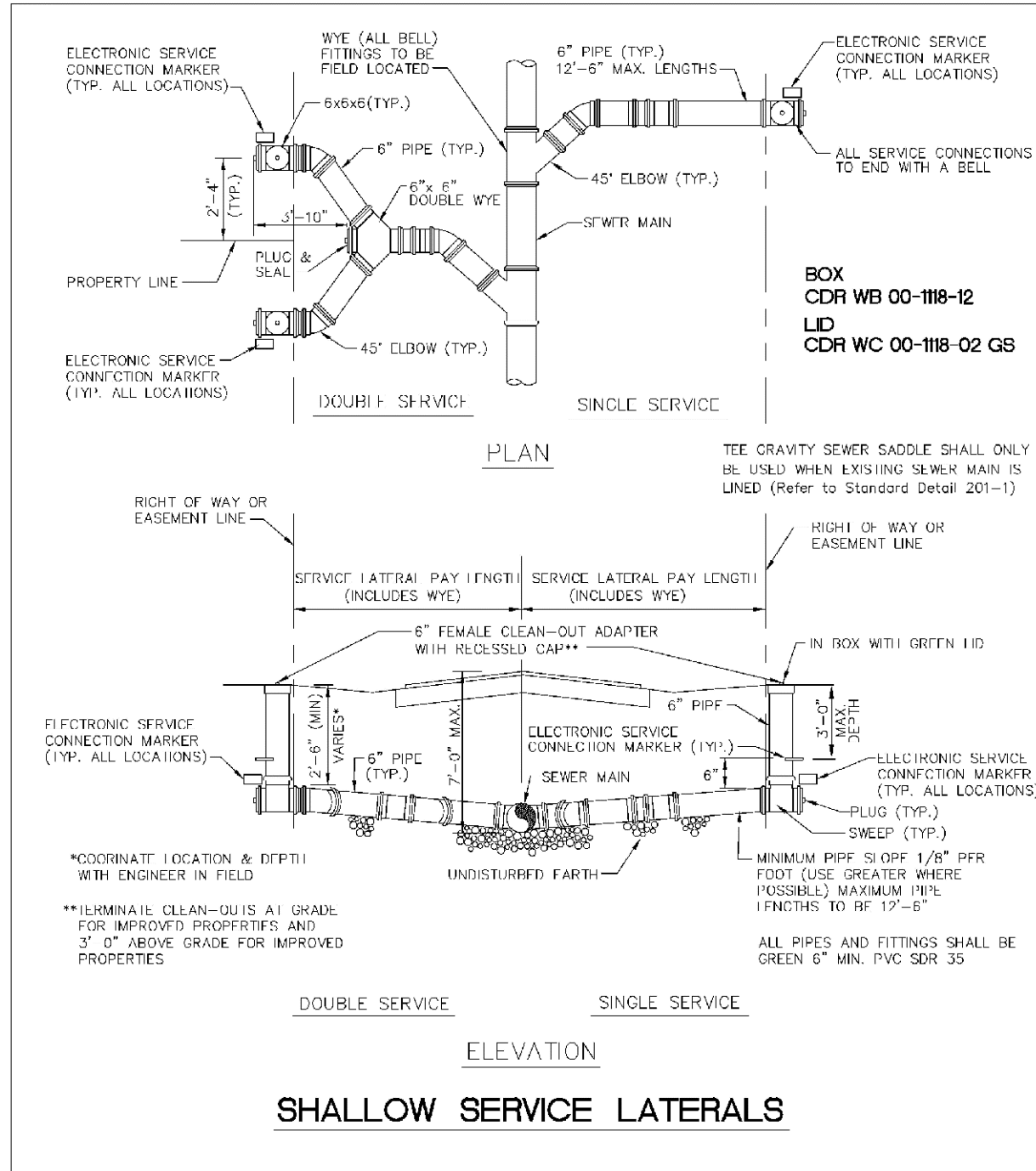


ENGINEERING STANDARDS 2022			
REVISIONS		ENGINEERING DIVISION CITY OF POMPAÑO BEACH	SERVICE LATERALS
BY	DATE		
T.W.	11-2007		
S.S.	01/27/12		
S.S.	07/10/12		
S.S.	02/05/16		
SCALE: N.T.S.			

DATE: JUNE 2022
DWG. NO. 200-1



ENGINEERING STANDARDS 2022			
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S.S.	01/27/12		
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S.S.	02/05/16		
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INLET: GASKETED BELL - SDR-35 PVC

Base Casting is ASTM A-48 Class 30 Cast Iron
(Unless Otherwise Specified to R-3370 - 3030' O.D. Min.)

PVC Adapter is on ASTM D3034, SDR-35 Gasketed Bell

Castings and Adapter cemented permanently in place with two-part urethane adhesive

Base of Saddle slip-cast in Waterbased Bituminous Coating

Strap is 24 ga. x 2.0" wide Type 304 Stainless Steel

Strap Pins are .75" dia. Type 303 Stainless Steel

T-Bolts are .375" - 16 Type 304 Stainless Steel

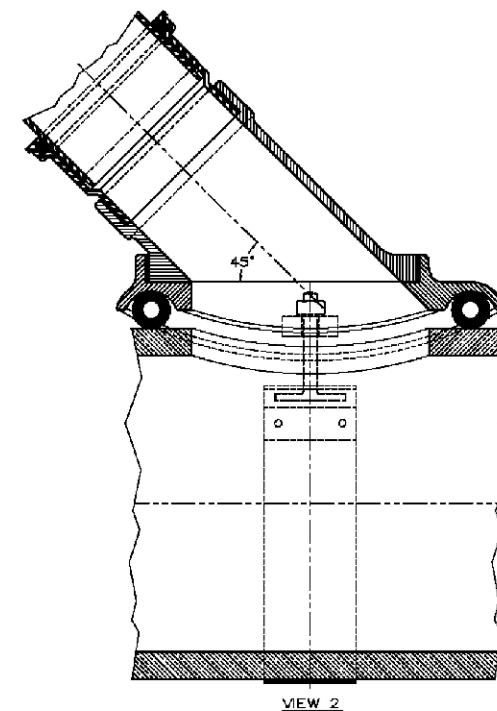
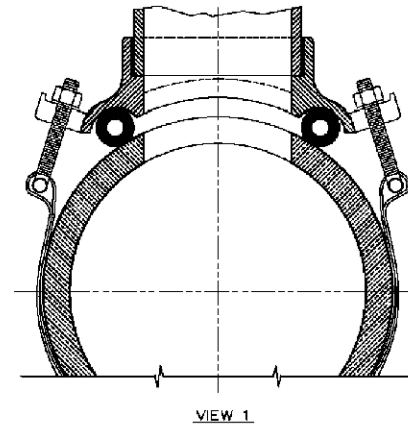
Nuts and Washers are Type 18-8 Stainless Steel

O-Ring is ASTM D-361-77 Tubular Polyisoprene

4" Inlet requires a 4" x 6.50" oval top in the Sewer Main

6" Inlet requires a 6" x 8.25" oval top in the Sewer Main (Sewer Main must be at least 8" dia.)

Note: This Dwg. supersedes Dwg. No. R-3157-D1

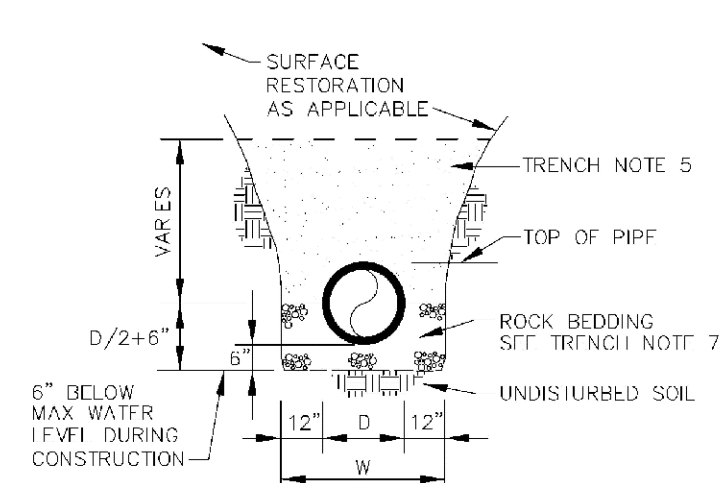


WYE GRAVITY SEWER SADDLE

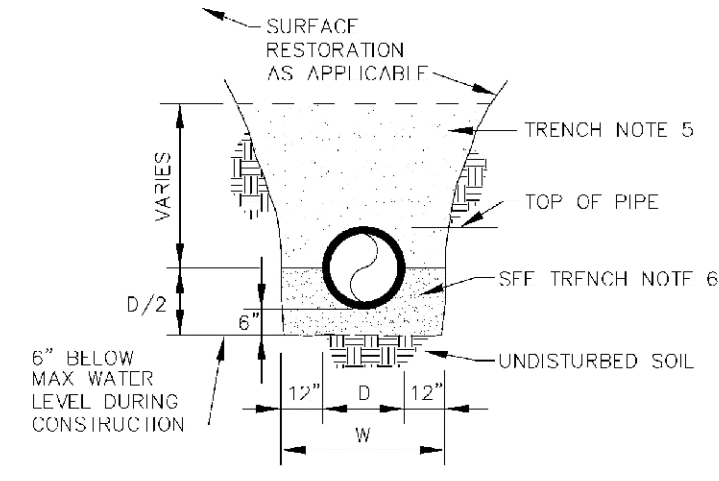
TO BE USED WHEN AN EXISTING SEWER MAIN HAS BEEN LINED WITH A CURED-IN-PLACE MATERIAL.

ENGINEERING STANDARDS 2022			
REVISIONS		ENGINEERING DIVISION CITY OF POMPAÑO BEACH	WYE GRAVITY SEWER SADDLE
BY	DATE		
SCALE: N.T.S.			

DATE: MAY 2022
DWG. NO. 201-2



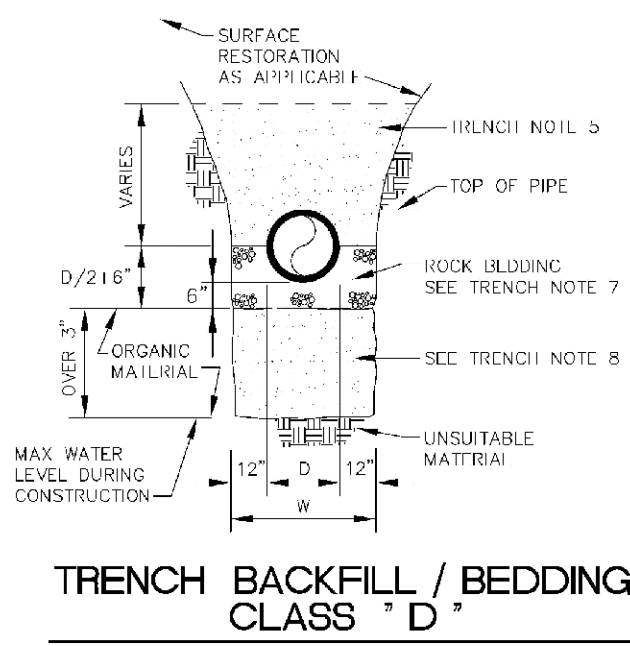
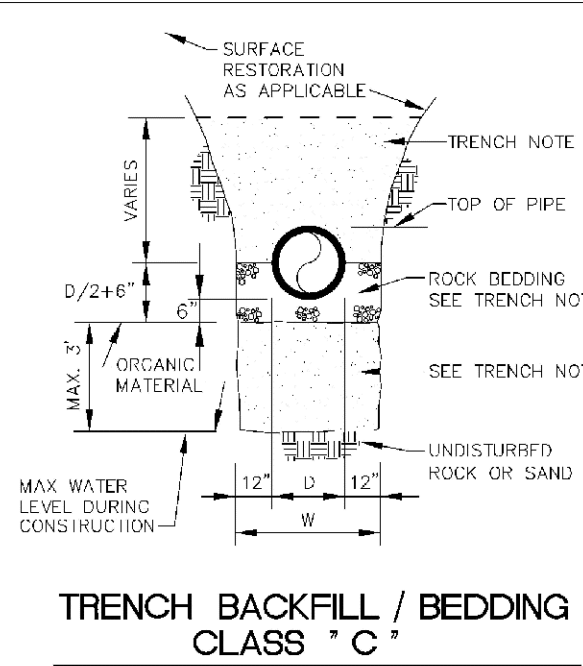
TRENCH BACKFILL / BEDDING CLASS "B"



TRENCH BACKFILL / BEDDING CLASS "A"

ENGINEERING STANDARDS 2022			
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BY	DATE		
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S.S.	01/27/12		
S.S.	07/10/12		
S.S.	02/05/16		
SCALE: N.T.S.			

DATE: JUNE 2022
DWG. NO. 203-1



ENGINEERING STANDARDS 2022

REVISIONS		ENGINEERING DIVISION CITY OF POMPAÑO BEACH	TRENCH BACKFILL / BEDDING
BY	DATE		
T.W.	11-2007		
S.S.	01/27/12		
S.S.	07/10/12		
S.S.	02/05/16		
SCALE: N.T.S.			

DATE: JUNE 2022
DWG. NO. 203-2

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.
2. TYPICAL TRENCH BACKFILL/BEDDING FOR WATER MAIN AND FORCE MAIN INSTALLATIONS SHALL BE CLASS "A" AS SHOWN IN DETAIL.
3. TYPICAL TRENCH BACKFILL/BEDDING FOR GRAVITY SEWER INSTALLATION SHALL BE CLASS "B" AS SHOWN IN DETAIL.
4. TRENCH BACKFILL/BEDDING CLASS "C" AND CLASS "D" SHALL BE USED FOR PIPE INSTALLATIONS WHERE UNSUITABLE TRENCH MATERIALS ARE ENCOUNTERED.
5. 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-698/ (AASHTO T-99). WHEN 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).
6. 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).
7. 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).
8. UNSUITABLE MATERIAL SHALL BE REMOVED TO UNDISTURBED ROCK OR SAND OR TO BOTTOM 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		ENGINEERING DIVISION CITY OF POMPAÑO BEACH	TRENCH BACKFILL / BEDDING
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9. BEDDING TYPES - THE FOLLOWING TYPES OF SUITABLE MATERIALS ARE DESIGNATED AND DEFINED AS FOLLOWING:

- TYPE A: CRUSHED LIMESTONE OR SAND WITH 100 PERCENT PASSING A 1/2 INCH SIEVE AND A SAND EQUIVALENT VALUE NOT LESS THAN 50.
- TYPE B: CRUSHED LIMESTONE OR SAND WITH 100 PERCENT PASSING A 1/2 INCH SIEVE AND A SAND EQUIVALENT VALUE NOT LESS THAN 50.
- TYPE C: SAND WITH 100 PERCENT PASSING A 3/8 INCH SIEVE, AT LEAST 90 PERCENT PASSING A NUMBER 4 SIEVE, AND A SAND EQUIVALENT VALUE NOT LESS THAN 50.
- TYPE D: CRUSHED LIMESTONE WITH 100 PERCENT PASSING A 1 INCH SIEVE AND NOT MORE THAN 10 PERCENT A NUMBER 4 SIEVE.
- TYPE E: CRUSHED LIMESTONE OR SAND WITH 100 PERCENT PASSING A 3/4 INCH SIEVE AND NOT MORE THAN 10 PERCENT PASSING A NUMBER 4 SIEVE.
- TYPE F: CRUSHED LIMESTONE MILLING THE FOLLOWING GRADATION REQUIRED -

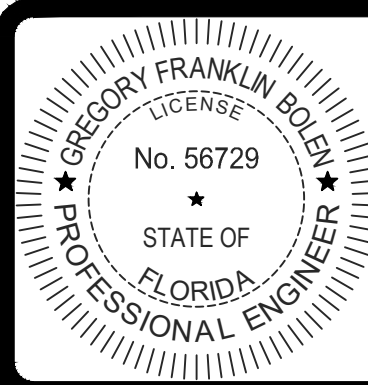
SIEVE SIZE	PERCENT PASSING
2 INCH	100
1-1/2 INCH	90-100
1 INCH	20-55
3/4 INCH	0-15
NO. 200	0-3

TRENCH BACKFILL / BEDDING NOTES

ENGINEERING STANDARDS 2022			
REVISIONS		ENGINEERING DIVISION CITY OF POMPAÑO BEACH	TRENCH BACKFILL / BEDDING
BY	DATE		
SCALE: N.T.S.			

DATE: JUNE 2022
DWG. NO. 203-4

1857 NW 21ST STREET



GREGORY FRANKLIN BOLEN, P.E., STATE OF FLORIDA, PROFESSIONAL ENGINEER, LICENSE NO. 56729

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DESIGN	DRAWN	CHECKED	APPROVED	DATE
C.M.	B.L.			

HODGE MARINE
SECTION 27, TOWNSHIP 48S., RANGE 42E.
CITY OF POMPAÑO BEACH, FLORIDA
ON STORM WATER AND
WASTEWATER DETAILS

JOB NO.	DRAWING NO.	SHEET	OF
25-093	P2255090094	C-9	C-15

08/06/2025