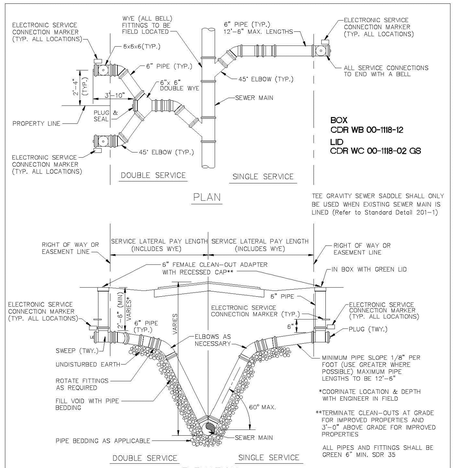
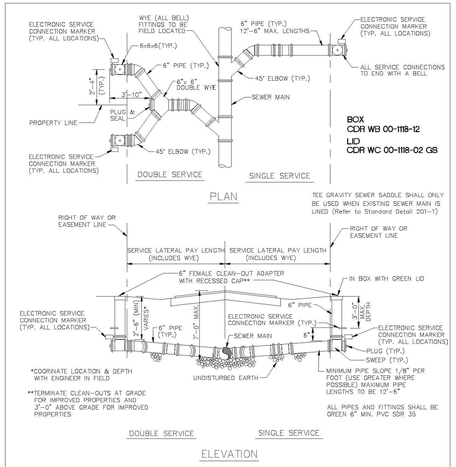


SERVICE LATERALS WITH RISERS

ENGINEERING STANDARDS 2022			
REVISIONS BY / DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	SERVICE LATERALS	
T.W. 11-2007			
S.S. 01/27/12			
S.S. 07/10/12	SCALE: N.T.S.		DATE: JUNE 2022 DWG. NO. 200-1
S.S. 02/05/16			



SHALLOW SERVICE LATERALS

ENGINEERING STANDARDS 2022			
REVISIONS BY / DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	SERVICE LATERALS	
T.W. 11-2007			
S.S. 01/27/12			
S.S. 07/10/12	SCALE: N.T.S.		DATE: JUNE 2022 DWG. NO. 200-2
S.S. 02/10/16			

INLET: GASKETED BELL - SDR 35 PVC

Base Casting is ASTM A-48 Class 30 Cast Iron
(Various Contours available to fit 8.275" – 30.00" O.D. Mains)

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

Adapter is cemented permanently in place with two-part urethane adhesive

Base of Saddle is dip-coated in a Waterbased Bituminous Coating

Strap is 24 ga. x 2.5" wide Type 304 Stainless Steel

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

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

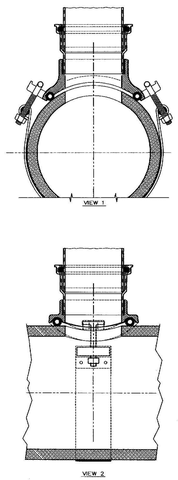
Nuts and Washers are Type 18-8 Stainless Steel

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

4" inlet requires a 4" dia. Tap in the Sewer Main

6" inlet requires a 6" dia. Tap in the Sewer Main (Sewer Main must be at least 8" dia.)

Note: This Dwg. supercedes Dwg. No. R-3408-D2



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 CITY OF POMPANO BEACH	TEE GRAVITY SEWER SADDLE	
S.S. 11/23/16			
	SCALE: N.T.S.		DATE: MAY 2022 DWG. NO. 201-1

INLET: GASKETED BELL - SDR-35 PVC

Base Casting is ASTM A-48 Class 30 Cast Iron
(Various Contours available to fit 8.275" – 30.00" O.D. Mains)

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

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

Base of Saddle dip-coated in Waterbased Bituminous Coating

Strap is 24 ga. X 2.5" wide Type 304 Stainless Steel

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

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

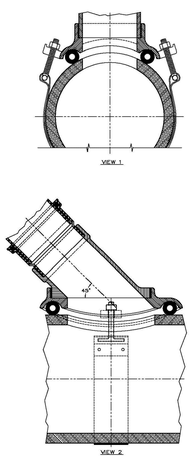
Nuts and Washers are Type 18-8 Stainless Steel

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

4" inlet requires a 4" x 6.50" oval tap in the Sewer Main

6" inlet requires a 6" x 9.25" oval tap in the Sewer Main (Sewer Main must be at least 8" dia.)

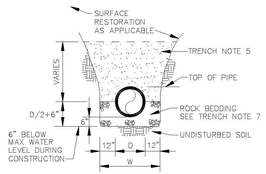
Note: This Dwg. supercedes Dwg. No. R-3157-01



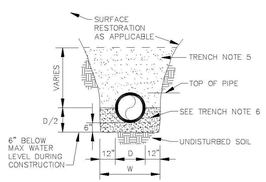
WYE GRAVITY SEWER SADDLE

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 POMPANO BEACH	WYE GRAVITY SEWER SADDLE	
	SCALE: N.T.S.		DATE: MAY 2022 DWG. NO. 201-2

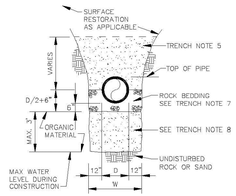


TRENCH BACKFILL / BEDDING CLASS " B "

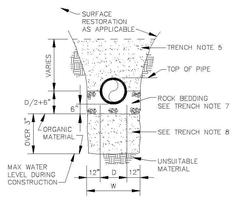


TRENCH BACKFILL / BEDDING CLASS " A "

ENGINEERING STANDARDS 2022			
REVISIONS BY / DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	TRENCH BACKFILL / BEDDING	
S.S. JUNE 2005			
	SCALE: N.T.S.		DATE: JUNE 2022 DWG. NO. 203-1



TRENCH BACKFILL / BEDDING CLASS " C "



TRENCH BACKFILL / BEDDING CLASS " D "

ENGINEERING STANDARDS 2022			
REVISIONS BY / DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	TRENCH BACKFILL / BEDDING	
S.S. JUNE 2005			
	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 UNSITABLE 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-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).
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 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 POMPANO BEACH	TRENCH BACKFILL / BEDDING	
	SCALE: N.T.S.		DATE: JUNE 2022 DWG. NO. 203-3

9. BEDDING TYPES – THE FOLLOWING TYPES OF SUITABLE MATERIALS ARE DESIGNATED AND DEFINED AS FOLLOWING:

TYPE A: CRUSHED LIMEROCK OR SAND WITH 100 PERCENT PASSING A 1 INCH SIEVE AND A SAND EQUIVALENT VALUE NOT LESS THAN 50.

TYPE B: CRUSHED LIMEROCK 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 30.

TYPE D: CRUSHED LIMEROCK WITH 100 PERCENT PASSING A 1 INCH SIEVE AND NOT MORE THAN 10 PERCENT A NUMBER 4 SIEVE.

TYPE E: CRUSHED LIMEROCK 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 LIMEROCK MEETING THE FOLLOWING GRADATION REQUIREMENTS.

SIEVE SIZE	PERCENTAGE 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 BY / DATE	ENGINEERING DIVISION CITY OF POMPANO BEACH	TRENCH BACKFILL / BEDDING	
	SCALE: N.T.S.		DATE: JUNE 2022 DWG. NO. 203-4

CONEMCO ENGINEERING, INC.
DBA Conemco Consultants
SBA 8a - Civil - Structural - MEP - CEI - Program Management - Land Surveyors
782 NW 42ND AVENUE UNIT 635
MIAMI, FL 33126
MAIN NUMBER 888-536-1536
CA # 29447

THIS ITEM HAS BEEN DIGITALLY SIGNED AND SEALED BY JOSE A. COMPRES ON THE DATE INDICATED IN THE SIGNATURE. PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES

Jose Compres — Digitally signed by Jose Compres Date: 2025.02.19 10:29:42 -05'00'

JOSE A COMPRES, P.E
FLORIDA P.E. LIC. # 65557

CONEMCO ENGINEERING, INC.

JOSE A. COMPRES LICENSE No. 65557 STATE OF FLORIDA PROFESSIONAL ENGINEER

PROJECT NAME / ADDRESS:
324 HAUS NEW BUILDING - CIVIL PLANS
324 NW 6TH ST. POMPANO BEACH, FL 33060

CLIENT/OWNER:
MR. RICARDO LARA

REVISIONS	DATE

DATE:	2/18/2025
SCALE:	AS SHOWN
DRAWN:	FP
CHECKED:	PS
APPVD:	JC
PROJECT ID:	FPV-C231001
CONTRACT NO:	-

SHEET NAME:

SANITARY SEWER DETAILS

DRAWING NO.
C-506

Sheet No.
16 OF 18

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04/02/2025