

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-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).

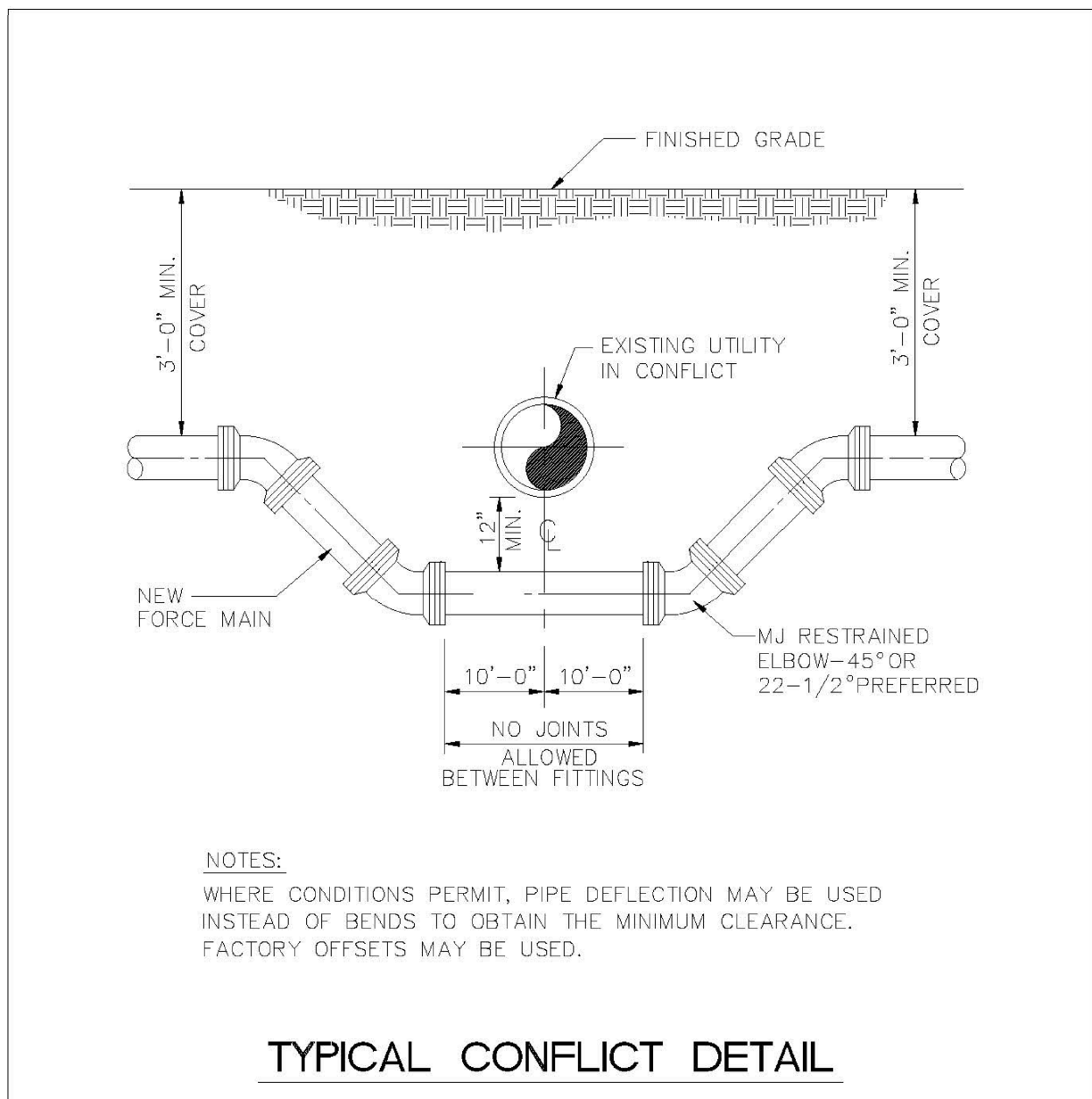
TRENCH BACKFILL / BEDDING NOTES

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

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 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 30.
- 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 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                |

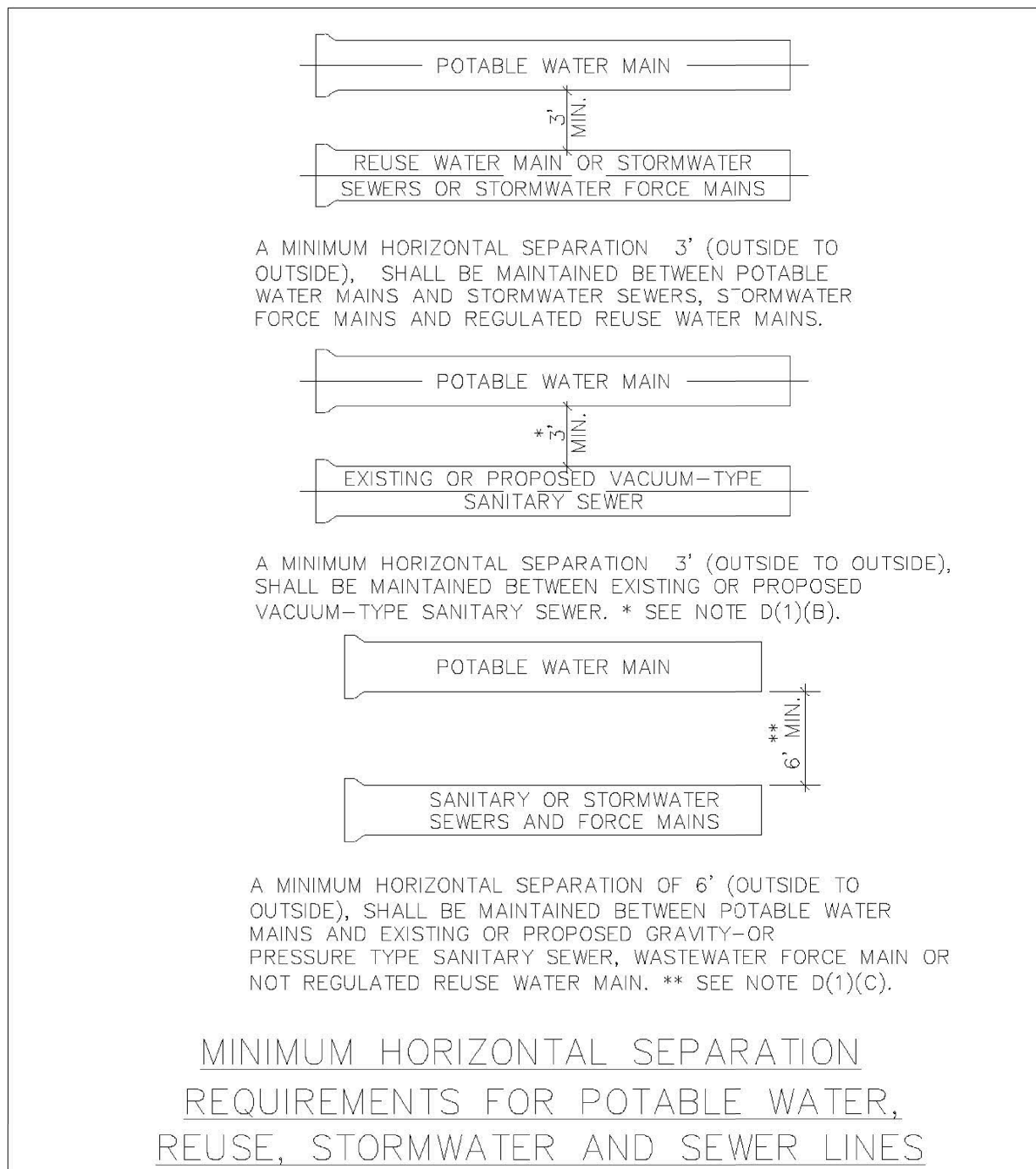
TRENCH BACKFILL / BEDDING NOTES

ENGINEERING STANDARDS 2022				
REVISIONS		ENGINEERING DIVISION	TRENCH BACKFILL / BEDDING	DATE: JUNE 2022 DWG. NO.
BY	DATE			
		CITY OF POMPAÑO BEACH		
		SCALE: N.T.S.		203-4



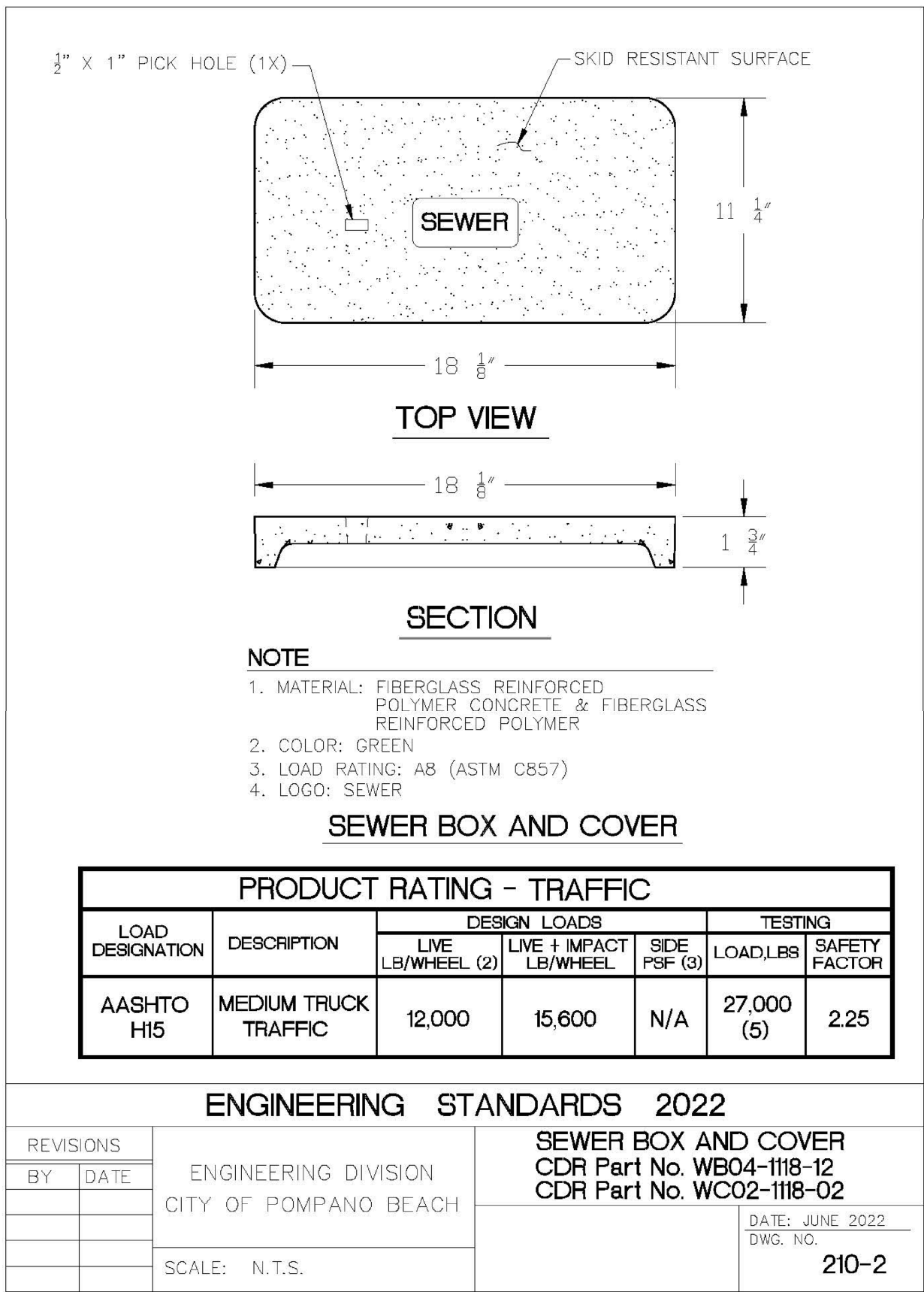
TYPICAL CONFLICT DETAIL

ENGINEERING STANDARDS 2022				
REVISIONS		ENGINEERING DIVISION	TYPICAL CONFLICT (SEWER)	DATE: JUNE 2022 DWG. NO.
BY	DATE			
		CITY OF POMPAÑO BEACH		
		SCALE: N.T.S.		206-1



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

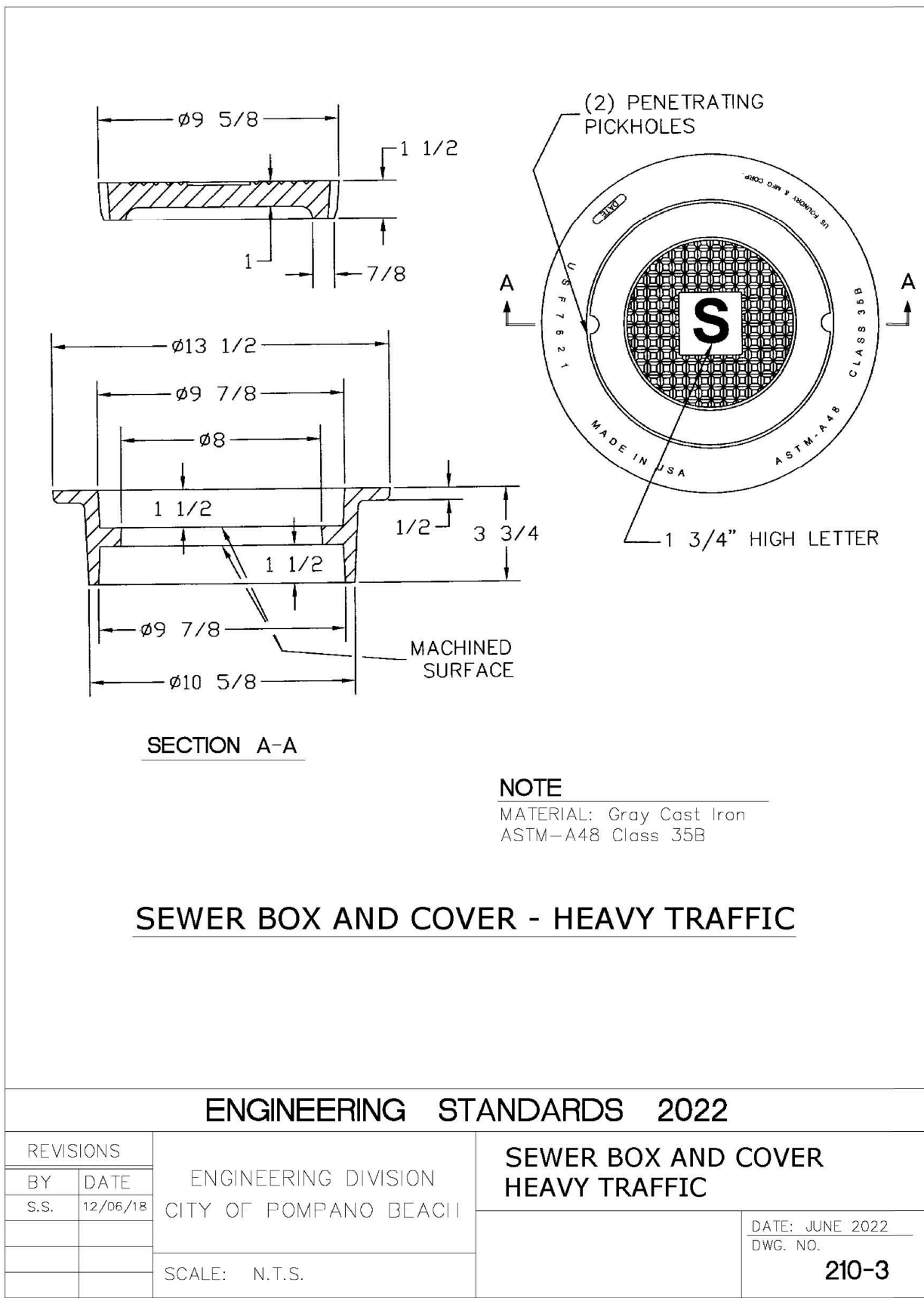
ENGINEERING STANDARDS 2022				
REVISIONS		ENGINEERING DIVISION	MIN. HORIZONTAL SEPARATION FOR SANITARY SEWER	DATE: JUNE 2022 DWG. NO.
BY	DATE			
		CITY OF POMPAÑO BEACH		
		SCALE: N.T.S.		209-1



SEWER BOX AND COVER

PRODUCT RATING - TRAFFIC					
LOAD DESIGNATION	DESCRIPTION	DESIGN LOADS			TESTING SAFETY FACTOR
		LIVE LB/WHEEL (2)	LIVE + IMPACT LB/WHEEL	SIDE PSF (3)	
AASHTO H15	MEDIUM TRUCK TRAFFIC	12,000	15,600	N/A	2.25

ENGINEERING STANDARDS 2022				
REVISIONS		ENGINEERING DIVISION	SEWER BOX AND COVER CDR Part No. WB04-1118-12 CDR Part No. WC02-1118-02	DATE: JUNE 2022 DWG. NO.
BY	DATE			
		CITY OF POMPAÑO BEACH		
		SCALE: N.T.S.		210-2



SEWER BOX AND COVER - HEAVY TRAFFIC

ENGINEERING STANDARDS 2022				
REVISIONS		ENGINEERING DIVISION	SEWER BOX AND COVER HEAVY TRAFFIC	DATE: JUNE 2022 DWG. NO.
BY	DATE			
		CITY OF POMPAÑO BEACH		
		SCALE: N.T.S.		210-3

Bealinda M Pell

Digitally signed by Bealinda M Pell  
DN: c=US, o=Florida, dnQualifier=A01410D0000017FB6C8143E00037A12, cn=Bealinda M Pell  
Date: 2023.12.01 22:50:31 -05'00'



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DRC

PZ23-12000009  
01/17/2024

DESIGNED: WFI	DATE: 01/2023
DRAWN: WFI	DATE: 01/2023
CHECKED: BMP	DATE: 11/2023
PUBLISHED: 12/1/2023, 5:17:19 PM	

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**PALM AIRE TENNIS CENTER**  
RWB / LINARES ARCHITECTURE

CITY OF POMPAÑO BEACH  
**STANDARD SANITARY DETAILS**

APPROVED:	EB-0002995 LB-0002995
DATE:	
PROJECT NUMBER	22036
SHEET	SD2 OF 2