

WATER AND SEWER LEGEND	
	DOUBLE DETECTOR CHECK VALVE
	RPZ BACKFLOW PREVENTORS
	GATE VALVE
	METER
	TEE / TAP
	FIRE HYDRANT
	FIRE DEPT. CONNECTION
	PROP. PLUG / CAP
	EXIST. SANITARY SEWER MANHOLE
	PROP. SANITARY SEWER MANHOLE
	PROP. SANITARY CLEAN OUT
	PROP. METER VAULT
	PROP. BACTERIOLOGICAL SAMPLE
	PROP. REDUCER
ABBREVIATIONS	
PROP. SANITARY SEWER PIPE	PROP. SANITARY SEWER PIPE
EXIST. WATER PIPE	EXIST. WATER PIPE
EXIST. SANITARY SEWER PIPE	EXIST. SANITARY SEWER PIPE
EXIST. STORM PIPE	EXIST. STORM PIPE
EXIST. ATT UNDERGROUND	EXIST. ATT UNDERGROUND
EXIST. BROWARD TRAFFIC COMMUNICATIONS	EXIST. BROWARD TRAFFIC COMMUNICATIONS
EXIST. BROWARD FIBER OPTIC	EXIST. BROWARD FIBER OPTIC
EXIST. COMCAST UNDERGROUND	EXIST. COMCAST UNDERGROUND
EXIST. ELECTRICAL UNDERGROUND	EXIST. ELECTRICAL UNDERGROUND
EXIST. FIBER OPTIC UNDERGROUND	EXIST. FIBER OPTIC UNDERGROUND
PROP. PROPOSED	PROP. PROPOSED
EXIST. EXISTING	EXIST. EXISTING
M.H. MANHOLE	M.H. MANHOLE
B.F.P. BACKFLOW PREVENTOR	B.F.P. BACKFLOW PREVENTOR
G.V. GATE VALVE	G.V. GATE VALVE
D.C.V. DOUBLE DETECTOR CHECK VALVE	D.C.V. DOUBLE DETECTOR CHECK VALVE
F.D.C. FIRE DEPT. CONNECTION	F.D.C. FIRE DEPT. CONNECTION
EXIST. UNKNOWN UNDERGROUND	EXIST. UNKNOWN UNDERGROUND
EXIST. FPL UNDERGROUND	EXIST. FPL UNDERGROUND
EXIST. ELECTRICAL UNDERGROUND	EXIST. ELECTRICAL UNDERGROUND
EXIST. ATT UNDERGROUND	EXIST. ATT UNDERGROUND
EXIST. OVERHEAD	EXIST. OVERHEAD
EXIST. TELEPHONE UNDERGROUND	EXIST. TELEPHONE UNDERGROUND

SYMBOLS FOR FITTINGS, VALVES, ETC. ARE DIAGRAMMATIC ONLY AND DO NOT REFLECT ACTUAL SIZE; FOR ACTUAL DIMENSIONS REFER TO MANUFACTURER'S SPECIFICATIONS.

UNDERGROUND UTILITIES NOTES:

1. SITE MAY CONTAIN EXISTING UTILITIES (DOMESTIC WATER, IRRIGATION, TELEPHONE, ELECTRIC, GAS, STORM DRAINAGE, SANITARY SEWER AND OTHERS).
2. **NOT ALL** EXISTING UTILITIES ARE SHOWN HEREON. SOME ARE SHOWN ON THIS PLAN AS OBTAINED FROM UTILITY LOCATES, ATLASES AND THE SURVEY.
3. ALL EXISTING UTILITIES WITHIN THE BOUNDARY OF THE SITE ARE TO BE REMOVED - EXCEPT WHERE NOTED OTHERWISE (SUCH AS "TO REMAIN" OR "TO BE RELOCATED" ETC.). THIS PLAN IS LIMITED TO WATER AND SANITARY SEWER ONLY. NO DESIGN FOR COMCAST, GAS, TELEPHONE IS SHOWN HEREON.
4. CONTRACTOR IS RESPONSIBLE FOR SEQUENCING ALL UTILITY REMOVAL/RELOCATION SUCH THAT NO OTHER USER OF SAID IS AFFECTED.

FIRE LINE NOTES:

1. ALL PROPOSED FIRE MAINS, SERVICES, "SIAMSE" CONNECTION LINES ETC. MUST BE INSTALLED BY A STATE LICENSED FIRE LINE CONTRACTOR PER FLORIDA STATUTE 633.
2. ALL FIRE LINES ARE TO BE INSPECTED BY CERTIFIED FIRE LINE INSPECTORS PRIOR TO BEING PLACED INTO SERVICE.
3. UPON COMPLETION OF REQUIRED TESTING A STATE LICENSED FIRE LINE CONTRACTOR SHALL ISSUE A "LICENSED UNDERGROUND TEST CERTIFICATE". THE CERTIFICATE MUST BE ISSUED AND THE FIRE LINE MUST BE ACCEPTED BY THE BROWARD COUNTY HEALTH DEPT. (WHERE APPLICABLE) PRIOR TO BEING PLACED INTO SERVICE.
4. FIRE LINE SYSTEM COMPONENTS (FDC, DDCV, FIRE LINE PIPING, ETC.) SHOWN ON THESE PLANS ARE TO BE COORDINATED WITH THE FIRE PROTECTION DRAWINGS AND DESIGN AND FIRE PROTECTION SHOP DRAWINGS. NOTIFY ENGINEER OF ANY DISCREPANCY PRIOR TO INSTALLATION OF ANY PORTION OF THE FIRE PROTECTION SYSTEM.

WATER NOTES

1. NO GATE VALVES IN CURBS
2. WATER SHALL BE AVAILABLE TO FIRE HYDRANTS BEFORE INTERIOR BUILDING CONSTRUCTION CAN BEGIN.
3. ALL EXISTING WATER SERVICES TO THE PROPERTY THAT ARE NOT BEING RE-USED SHALL BE CUT AND CAPPED AND ABANDONED IN ACCORDANCE WITH THE PUBLIC UTILITY'S MINIMUM STANDARDS.
4. AFTER WATER CONNECTIONS, RESTORE ALL RIGHT OF WAY (PAVEMENT, SIDEWALK, CURB, ETC.) IN ACCORDANCE WITH CITY OF POMPAHO BEACH MINIMUM STANDARDS.
5. ALL ELEVATIONS SHOWN IN THIS PLAN ARE IN THE NAVD DATUM. WHERE ELEVATIONS WERE REQUIRED TO BE CONVERTED, THE FOLLOWING CONVERSION WAS USED: NAVD = NGVD - 1.51'
6. ALL EXISTING UTILITIES SHOWN ON THIS PLAN ARE BASED ON THE BEST AVAILABLE INFORMATION. THE EXISTING UTILITY INFORMATION SHOWN HERE IS FOR THE CONTRACTOR'S CONVENIENCE AND THE E.O.R. ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. BEFORE COMMENCING CONSTRUCTION CONTRACTOR TO CALL FOR UTILITY LOCATES, VERIFY ALL EXISTING UTILITIES' LOCATIONS AND DEPTHS, AND NOTIFY E.O.R. OF ANY CONFLICTS.

SANITARY SEWER NOTES

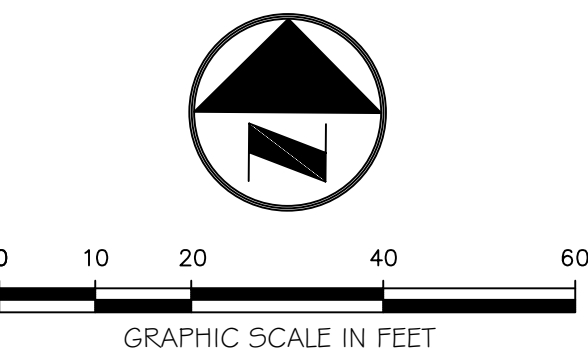
1. SLOPE OR PITCH SANITARY SEWER MANHOLE CASTINGS WITH DESIGN ROAD SECTIONS.
2. ALL SANITARY SEWER CLEANOUTS LOCATED IN ROADWAY ARE TO BE TRAFFIC-RATED.
3. ALL EXISTING SANITARY SERVICES TO THE PROPERTY THAT ARE NOT BEING RE-USED SHALL BE CUT AND CAPPED AND ABANDONED IN ACCORDANCE WITH THE PUBLIC UTILITY'S MINIMUM STANDARDS.
4. AFTER SEWER CONNECTIONS, RESTORE ALL RIGHT OF WAY (PAVEMENT, SIDEWALK, CURB, ETC.) IN ACCORDANCE WITH CITY OF POMPAHO BEACH MINIMUM STANDARDS.
5. MANHOLE LIFT HOLES AND GRADE ADJUSTMENT RINGS BE SEALED WITH NONSHRINKING MORTAR OR OTHER APPROPRIATE MATERIAL.
6. INLET AND OUTLET PIPES BE JOINED TO THE MANHOLE WITH A GASKETED FLEXIBLE WATER TIGHT CONNECTION OR ANOTHER WATER TIGHT CONNECTION ARRANGEMENT THAT ALLOWS DIFFERENTIAL SETTLEMENT OF THE PIPE AND MANHOLE WALL.
7. WATER TIGHT MANHOLE COVERS SHALL BE USED [RSWF 34.8].
8. SANITARY SEWER SERVICES ARE NOT TO BE PLACED INTO OPERATION UNTIL THE OPERATION LICENSE(S) IS OBTAINED FROM THE RELEVANT ISSUING AUTHORITY.
9. ALL ELEVATIONS SHOWN IN THIS PLAN ARE IN THE NAVD DATUM. WHERE ELEVATIONS WERE REQUIRED TO BE CONVERTED, THE FOLLOWING CONVERSION WAS USED: NAVD = NGVD - 1.51'
10. ALL EXISTING UTILITIES SHOWN ON THIS PLAN ARE BASED ON THE BEST AVAILABLE INFORMATION. THE EXISTING UTILITY INFORMATION SHOWN HERE IS FOR THE CONTRACTOR'S CONVENIENCE AND THE E.O.R. ASSUMES NO RESPONSIBILITY FOR THEIR ACCURACY. BEFORE COMMENCING CONSTRUCTION CONTRACTOR TO CALL FOR UTILITY LOCATES, VERIFY ALL EXISTING UTILITIES' LOCATIONS AND DEPTHS, AND NOTIFY E.O.R. OF ANY CONFLICTS.

SEWER TESTING NOTES

1. DEFLECTION TEST: TESTING IS REQUIRED AFTER THE FINAL BACKFILL HAS BEEN IN PLACE (AT LEAST 30 DAYS TO PERMIT STABILIZATION OF THE SOIL-PIPE SYSTEM)
 - a) NO PIPE SHALL EXCEED A DEFLECTION OF 5%
 - b) A RIGID BALL OR MANDREL IS TO BE USED FOR THE DEFLECTION TEST WITH A DIAMETER NOT LESS THAN 80% OF THE BASE INSIDE DIAMETER OR AVERAGE INSIDE DIAMETER OF THE PIPE, DEPENDING ON WHICH IS SPECIFIED IN THE ASTM SPECIFICATION, INCLUDING THE APPENDIX, TO WHICH THE PIPE IS MANUFACTURED
 - c) THE TEST IS TO BE PERFORMED WITHOUT A MECHANICAL PULLING DEVICE [RSWF 33.85]
2. LEAKAGE TEST:
 - a) THE LEAKAGE EXFILTRATION OR INFILTRATION IS NOT EXCEED 100 GALLONS PER INCH OF PIPE DIAMETER PER MILE PER DAY FOR ANY SECTION OF THE SYSTEM
 - b) EXFILTRATION OR INFILTRATION TESTS TO BE PERFORMED WITH A MINIMUM POSITIVE HEAD OF 2 FEET
 - c) AIR TESTS, AS A MINIMUM, ARE TO CONFORM TO THE TEST PROCEDURE DESCRIBED IN ASTM C-828 FOR CLAY PIPE, ASTM C 924 FOR CONCRETE PIPE, ASTM F-1417 FOR PLASTIC PIPE, AND FOR OTHER MATERIALS APPROPRIATE TEST PROCEDURES. [RSWF 33.93, 33.94, AND 33.95]

EXISTING SEWER NOTE:

- CONTRACTOR TO LOCATE EXISTING SANITARY SEWER LATERAL AND TELEVIEW FROM CLEANOUT TO MAIN. ENGINEER TO REVIEW CONDITION OF LINE AND COORDINATE WITH CITY OF POMPAHO BEACH FOR SUITABILITY TO RE-USE. CONTRACTOR TO VERIFY DEPTH OF SEWER LATERAL AT CLEANOUT AND AT POINT OF CONNECTION TO MAIN AND PROVIDE INVERT ELEVATIONS TO ENGINEER.



Always call 811 two full business days before you dig to have underground utilities located and marked.

Sunshine811.com

Digitally signed by
Stephen Botek
Date: 2024.04.08 08:59:12 -04'00'

DRC
PZ24-12000003
05/15/2024

BTE REF DATE: 00.00.00

REVISIONS

DATE

#

NATHAN M. LEWIS
LICENSE
No. 86481
STATE OF FLORIDA
PROFESSIONAL ENGINEER
April 4, 2024

THIS DOCUMENT HAS BEEN DIGITALLY SIGNED AND SEALED BY NATHAN M. LEWIS, P.E. ON THE DATE ADJACENT TO THE SEAL.

PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES.

Celebrating 15 Years

WATER AND SANITARY SEWER PLAN

580 BRINY
580 Briny Ave
Pompano Beach, FL 33062

Botek Thurlow Engineering, Inc.
3400 NW 9th Avenue, Suite 102, Ft. Lauderdale, FL 33309
www.botekthurlow-eng.com P: 954-568-8888 F: 954-568-0757

BTE PROJECT #: 22-0804

PROJECT DATE: 10-23-22

SET # CC-2