















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Botek

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signed by
Stephen
Botek
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WATER AND SEWER LEGEND			
	DOUBLE DETECTOR CHECK VALVE		EXIST. SANITARY SEWER MANHOLE
	RPZ BACKFLOW PREVENTORS		PROP. SANITARY SEWER MANHOLE
	GATE VALVE		PROP. SANITARY CLEAN OUT
	METER		PROP. METER VAULT
	TEE / TAP		PROP. BACTERIOLOGICAL SAMPLE
	FIRE HYDRANT		PROP. REDUCER
	FIRE DEPT. CONNECTION		
	PROP. PLUG / CAP		
PROP. SANITARY SEWER PIPE			
	SS		
PROP. WATER PIPE			
	W		
EXIST. WATER PIPE			
	WE		
EXIST. SANITARY SEWER PIPE			
	SE		
EXIST. STORM PIPE			
	STW		
EXIST. ATT UNDERGROUND			
	ATTW		
EXIST. BROWARD TRAFFIC COMMUNICATIONS			
	BTCC		
EXIST. BROWARD FIBER OPTIC			
	BFO		
EXIST. COMCAST UNDERGROUND			
	CMC		
EXIST. ELECTRICAL UNDERGROUND			
	EL		
EXIST. FIBER OPTIC UNDERGROUND			
	FO		
EXIST. UNKNOWN UNDERGROUND			
	UNK		
EXIST. FPL UNDERGROUND			
	FPL		
EXIST. ELECTRICAL UNDERGROUND			
	EL		
EXIST. OVERHEAD			
	OH		
EXIST. TELEPHONE UNDERGROUND			
	TEL		

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, ATLASSES 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" TO BE RELOCATED ETC.). THIS PLAN IS LIMITED TO WATER AND SANITARY SEWER ONLY. NO DESIGN OF FPL, 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 POMPANO BEACH AND/OR FOOT 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 POMPANO BEACH AND/OR FOOT 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 WATERTIGHT CONNECTION OR ANOTHER WATERTIGHT CONNECTION ARRANGEMENT THAT ALLOWS DIFFERENTIAL SETTLEMENT OF THE PIPE AND MANHOLE WALL.
7. WATERTIGHT MANHOLE COVERS SHALL BE USED [RSWF 34.6]
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 95% 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-824 FOR CONCRETE PIPE, ASTM F-1417 FOR PLASTIC PIPE, AND FOR OTHER MATERIALS APPROPRIATE TEST PROCEDURES. [RSWF 33.93, 33.94, AND 33.95]

WATER AND WASTEWATER CALCULATIONS

TOTAL SITE WATER CONSUMPTION IN (GPD) GALLONS PER DAY WILL BE:

0.473 ERU/UNIT X 252 ROOMS X 246 GPD/ERU (MAXIMUM DAY) = 29,322 GPD
1,788 ERU/1000 SF X 4,810 SF X 246 GPD/ERU (MAXIMUM DAY) = 2,115 GPD
TOTAL = 31,437 GPD

WATER CALCULATIONS PREPARED USING THE BROWARD COUNTY WATER AND WASTEWATER SERVICES EQUIVALENT RESIDENTIAL UNIT FACTORS

TOTAL WASTEWATER DISCHARGE FROM THE SITE IN (GPD) GALLONS PER DAY WILL BE:

150 GPD/HOTEL ROOM = 150 X 252 = 37,800 GPD
4810 SF RESTAURANT (200 SEATS) X 30 GPD/SEAT = 6,000 GPD
TOTAL = 43,800 GPD

WASTEWATER CALCULATIONS PREPARED USING THE BROWARD COUNTY CONSULTING ENGINEER'S GUIDE FOR WASTEWATER COLLECTION/TRANSMISSION SYSTEM

BTE REF DATE: 12-15-2023

REVISIONS

DATE

STEPHEN F. BOTEK
No. 55335
STATE OF FLORIDA
PROFESSIONAL ENGINEER
December 15, 2023

THIS DOCUMENT HAS BEEN
DIGITALLY SIGNED AND
SEALED BY STEPHEN F. BOTEK,
P.E. ON THE DATE ADJACENT
TO THE SEAL.

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Celebrating
15 Years

WATER AND SANITARY SEWER PLAN
POMPANO HOTEL
101 SOUTH OCEAN BOULEVARD
POMPANO BEACH, FL

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23-0701

PROJECT DATE:
09-05-2023

SHEET #:
C-2