

BOHLER ENGINEERING

SITE CIVIL AND CONSULTING ENGINEERING
PERMITTING SERVICES
TRANSPORTATION SERVICES

CHARLOTTE, NC
ATLANTA, GA
SOUTH FORT WORTH, TX
DALLAS, TX
HOUSTON, TX
MEMPHIS, TN
NASHVILLE, TN
RICHMOND, VA
WASHINGTON, DC

PHILADELPHIA, PA
BALTIMORE, MD
SOUTH BEND, IN
INDIANAPOLIS, IN
COLUMBUS, OH
CINCINNATI, OH
CLEVELAND, OH
DAYTON, OH
DETROIT, MI
EVANSTON, IL
GREENSBORO, NC
IRVING, TX
KANSAS CITY, MO
LONG BEACH, CA
LOS ANGELES, CA
MINNEAPOLIS, MN
NEW YORK, NY
PHILADELPHIA, PA
RICHMOND, VA
WASHINGTON, DC

UTILITY LEGEND

TYPICAL	NOTE TEXT	PROPOSED NOTE
	EXIST UNDERGROUND WATER LINE	
	EXIST UNDERGROUND ELECTRIC LINE	
	EXIST STORM SEWER	
	EXIST FORCE MAIN	
	EXIST SANITARY MANHOLE	
	PROP UNDERGROUND WATER LINE	
	PROP UNDERGROUND ELECTRIC LINE	
	PROP STORM SEWER	
	PROP SANITARY SEWER MAIN	
	PROP SANITARY CLEANOUT	
	PROP BACKFLOW PREVENTER	
	PROP WATER METER	
	PROP WATER VALVE	
	PROP GREASE TRAP	

SANITARY SEWER NOTES:

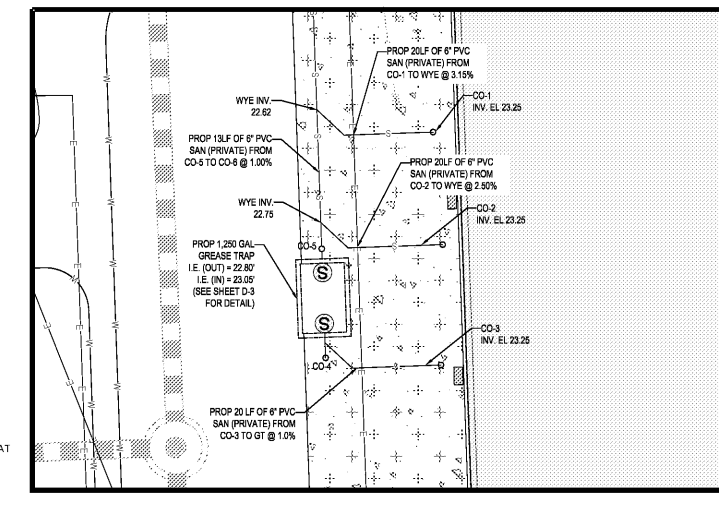
- A. GENERAL:
- DISTANCE AND LENGTHS SHOWN ON PLANS AND PROFILE DRAWINGS ARE REFERENCED TO THE CENTER OF STRUCTURES.
 - PRIOR TO COMMENCING CONSTRUCTION, CONTRACTOR TO TELEVISION EXISTING SANITARY SEWER LINE FROM POINT OF CONNECTION THROUGH THE NEXT SEQUENTIAL DOWNSTREAM RUN OF PIPE. ADDITIONALLY, PRIOR TO COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL TELEVISION THE NEWLY INSTALLED SANITARY SEWER MAIN TO ENSURE NO DIPS OR DEBRIS WITHIN LINE.
 - CONTRACTOR TO PROVIDE NEW INTERIOR SPECIALTY LINER (PROTECTIVE COATING) AS SPECIFIED IN SECTION 446 ON SANITARY MANHOLE.
- B. MATERIALS:
- ALL PVC GRAVITY SEWER PIPE AND FITTINGS SHALL BE NON-PRESSURE POLYVINYL CHLORIDE (PVC) PIPE CONFORMING TO ASTM D 3034, SDR 26, WITH PUSH-ON RUBBER GASKET JOINTS.
 - PRESSURE PIPE SHALL CONFORM TO AWWA STANDARDS C900 DR18 FOR 4 INCH THROUGH 12 INCH PIPE, AND AWWA STANDARD C905 FOR 14 INCH THROUGH 36 INCH PIPE. PIPE IS TO BE MANUFACTURED TO DUCTILE IRON PIPE EQUIVALENT OUTSIDE DIAMETER.
 - PIPE SHALL CONFORM TO ASTM D1784 AND D1785. GREEN COLOR PIPE TO BE MANUFACTURED TO I.P.S. (STEEL) STANDARD PIPE EQUIVALENT OUTSIDE DIAMETERS. PIPE SHALL BE MARKED NSF-PW APPROVED. TO INSURE A WATER-TIGHT CONNECTION, THE CONTRACTOR SHALL UTILIZE "PURPLE PRIMER" AND "RAIN OR SHINE GLUE" OR JEA APPROVED EQUAL.
 - ALL FITTINGS AND ACCESSORIES SHALL BE AS MANUFACTURED OR SUPPLIED BY THE PIPE MANUFACTURER OR APPROVED EQUAL.
 - ALL SANITARY CLEANOUTS WITHIN PAVEMENT SHALL HAVE A LID THAT IS H20 LOADING.
- C. INSTALLATION:
- PIPE AND FITTINGS:
 - SEWER PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, AND THE UN-BELL PLASTICS PIPE ASSOCIATION'S RECOMMENDED PRACTICE FOR THE INSTALLATION OF PVC SEWER PIPE.
 - BEDDING AND INITIAL BACKFILL TO INCHES OVER SEWER MAINS AND SERVICES SHALL BE SAND WITH NO ROCK LARGER THAN 1" IN DIAMETER. PEA ROCK OR 3/4" WASHED ROCK WILL BE USED IN WATER OR WHERE UNSUITABLE BEDDING EXISTS. ALL OTHER FILL SHALL NOT HAVE ROCK LARGER THAN 6" IN DIAMETER.
 - CLEANOUTS:
 - CLEANOUTS SHALL BE SET PLUMB TO LINE AND GRADE ON FIRM CLEAN SUBGRADE PROVIDING UNIFORM BEARING UNDER THE BASE.
 - ALL OPENINGS AND JOINTS SHALL BE SEALED WATER-TIGHT.
 - SERVICE:
 - MINIMUM SLOPE OF ALL SERVICE LINES SHALL BE 1.00%.
 - EACH SERVICE CONNECTION SHALL BE PLUGGED WATER-TIGHT WITH AN APPROVED PLUG.
 - CONNECTION OF SERVICES TO BUILDING'S PLUMBING SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS.
 - AFTER CONSTRUCTION OF THE SEWER SYSTEM, THE ENGINEER MAY REQUIRE A VISUAL INFILTRATION AND/OR EXFILTRATION TEST TO BE PERFORMED ON THE ENTIRE SYSTEM OR ANY PART THEREOF.
 - AN AIR TEST MAY BE SUBSTITUTED FOR THE WATER EXFILTRATION TEST, UPON APPROVAL OF THE ENGINEER.
 - SEWER PIPE LEAKAGE ALLOWABLE SHALL NOT EXCEED 150 GALLONS PER DAY PER INCH DIAMETER PER MILE IN A TWO HOUR TEST PERIOD FOR ANY SECTION TESTED. NO VISIBLE LEAKAGE SHALL BE ALLOWED.
 - CONTRACTOR IS RESPONSIBLE FOR CORRECTING ANY DEFICIENCIES PRIOR TO THE CERTIFICATION TO ANY AGENCY.

GENERAL NOTES:

- ALL WATER AND/OR SEWER CONSTRUCTION SHALL CONFORM TO THE CURRENT JEA WATER AND SEWER STANDARDS MANUAL & THE JEA DIS MANUAL.
- ALL EXISTING OR PROPOSED WATER, SEWER, OR REUSE APPURTENANCES AFFECTED BY THE DEVELOPMENT OF THIS SITE ARE TO BE RAISED TO THE FINAL GRADE PRIOR TO ISSUANCE OF THE C.O.
- CONTACT CHRIS BARRINGTON JEA DEVELOPMENT @904-665-4081 TO SCHEDULE A PRE CONSTRUCTION MEETING PRIOR TO BEGINNING CONSTRUCTION.

WATER DISTRIBUTION NOTES:

- CONTRACTOR SHALL FOLLOW GUIDELINES AND PROCEDURES OUTLINED BY UTILITY PROVIDER, AND HAVE UTILITY PROVIDER'S MANUAL ON-SITE AT ALL TIMES. THIS POLICY MANUAL SHALL BE CONSIDERED PART OF THE CONSTRUCTION DOCUMENTS AS IT PERTAINS TO APPROVED MATERIALS, INSTALLATION METHODS, INSPECTION NOTIFICATION AND AS-BUILT/PROJECT CLOSEOUT REQUIREMENTS.
- PIPE SHALL CONFORM TO AWWA STANDARDS C900 DR18 FOR 4 INCH THROUGH 12 INCH PIPE, AND AWWA STANDARD C905 FOR 14 INCH THROUGH 36 INCH PIPE. PIPE IS TO BE MANUFACTURED TO DUCTILE IRON PIPE EQUIVALENT OUTSIDE DIAMETER.
- BACKFLOW PREVENTER TO BE INSTALLED ON CUSTOMER SIDE OF THE WATER METER BOX AT A MINIMUM OF 18" FROM FINAL GRADE TO THE BOTTOM OF THE BACKFLOW.
- ALL BACKFLOW PREVENTORS SHALL BE IN ACCORDANCE WITH JEA CROSS CONNECTION PROGRAM. BACKFLOW PREVENTORS MUST BE TESTED AFTER INSTALLATION BY A CERTIFIED TESTER AND ANNUALLY THEREAFTER. JEA CONTACT: BILL POUND @ (904) 665-5787 BACKFLOW PREVENTORS ON FIRE LINES OR COMBINATION FIRE/POTABLE MAINS SHALL HAVE FREEZE PROTECTION.



SANITARY CLEANOUT SCHEDULE:

CO-1	CO-2	CO-3	CO-4
RIM ELEV = AT	RIM ELEV = AT	RIM ELEV = AT	RIM ELEV = AT
GRADE	GRADE	GRADE	GRADE
I.E. = 23.25	I.E. = 23.25	I.E. = 23.25	I.E. = 23.05

CO-5	CO-6
RIM ELEV = AT	RIM ELEV = AT
GRADE	GRADE
I.E. = 22.80	I.E. = 23.34

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REVISIONS

REV	DATE	COMMENT	BY
Δ	01/08/18	PER CITY & JEA COMMENTS	JRT
Δ	03/06/18	PER CITY & FDOT COMMENTS	JRT
Δ	04/16/18	PER FDOT COMMENTS	JRT
Δ	01/28/20	FORCE MAIN & IRRIGATION REVISION	ASZ
Δ	02/11/20	EOD COMMENTS	ASZ
Δ	09/25/20	PER WAWA	KM

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PERMIT SET

PROJECT No.: FL170094
DRAWN BY: JRT
CHECKED BY: ASZ
DATE: 9/28/20
SCALE: AS NOTED
CAD I.D.: UPD

PROJECT: Wawa FOR BRIGHTWORK REAL ESTATE

LOCATION OF SITE
1004 EDGEWOOD AVE NORTH
JACKSONVILLE, FL 32254
CITY OF JACKSONVILLE

BOHLER ENGINEERING

3820 NORTHALE BLVD., SUITE 300B
TAMPA, FLORIDA 33624
Phone: (813) 812-4100
Fax: (813) 812-4101
FLORIDA BUSINESS CERT. OF AUTH. No. 30789
LICENSED PROFESSIONAL ENGINEER IN CIVIL ENGINEERING

SHEET TITLE: UTILITY PLAN

SHEET NUMBER: C-6