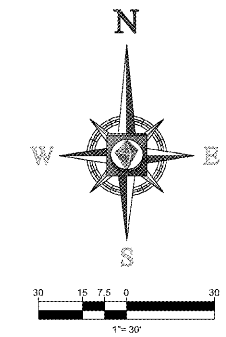

LEGEND:

- EXIST. STORM SEWER
- EXIST. SANITARY FORCE MAIN
- EXIST. WATER MAIN
- EXIST. OVERHEAD UTILITY LINE
- EXIST. ELECTRIC POLE
- EXIST. SANITARY SEWER MAIN
- EXIST. UNDERGROUND TELEPHONE LINE
- EXIST. UNDERGROUND GAS MAIN
- EXIST. UNDERGROUND FIBER OPTIC LINE
- EXIST. FENCE
- PROP. SANITARY SEWER LATERAL
- PROP. WATER MAIN SERVICE
- PROP. ELECTRIC CONDUIT
- PROP. CLEANOUT
- PROP. GREASE TRAP
- PROP. CROSSINGS
- PROP. STORM INLET
- PROP. STORM MANHOLE
- PROP. STORM PIPE
- PROP. EXFILTRATION TRENCH

DATUM NOTE:

CONTROL BENCHMARK:
SAINT LUCIE COUNTY BENCHMARK DESCRIBED AS SAINT LUCIE COUNTY 2004 VERTICAL CONTROL DISK IN CONCRETE LOCATED AT THE NORTHEAST CORNER OF JENKINS AND OKEECHOBEE ROADS, 47.5'± SOUTHEAST OF A TYPICAL CONCRETE POWER POLE AT THE INTERSECTION OF AN 8' CONCRETE SIDEWALK, 14'± NORTHWEST OF THE SOUTHWEST CORNER OF THE PARKING LOT PARALLEL TO OKEECHOBEE ROAD.

ELEVATION: 19.13' (NORTH AMERICAN VERTICAL DATUM 1988)

ON-SITE TBM #1:
STATION IS DESCRIBED AS A LB-7652 NAIL AND DISK SET ON TOP OF CONCRETE SIDEWALK LOCATED 105.04' NORTH AND 31.69' EAST OF THE NORTHWEST CORNER OF SUBJECT PARCEL.

ELEVATION: 20.50' (NORTH AMERICAN VERTICAL DATUM 1988)

ON-SITE TBM #2:
STATION IS DESCRIBED AS A LB-7652 NAIL AND DISK SET ON TOP OF GRATE INLET LOCATED 33.19' NORTH AND 299.81' WEST OF THE NORTHEAST CORNER OF SUBJECT PARCEL.

ELEVATION: 17.92' (NORTH AMERICAN VERTICAL DATUM 1988)

GENERAL NOTES:

1. UTILITY PERMITS FOR ANY WORK WITHIN RIGHT OF WAY SHALL BE OBTAINED PRIOR TO COMMENCEMENT OF WORK.

WATER DISTRIBUTION NOTES:

1. 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.
2. ALL HIGH DENSITY POLYETHYLENE PIPE AND FITTINGS SHALL MEET THE REQUIREMENTS OF AASHTO M - 294 LATEST REVISIONS. ALL PIPING TO BE NON-PERFORATED TUBING.

SANITARY SEWER NOTES:

1. GENERAL:
   A. DISTANCE AND LENGTHS SHOWN ON PLANS AND PROFILE DRAWINGS ARE REFERENCED TO THE CENTER OF STRUCTURES.
   B. PRIOR TO COMMENCING CONSTRUCTION, CONTRACTOR TO TELEVISE EXISTING SANITARY SEWER LINE FROM POINT OF CONNECTION THROUGH THE NEXT SEQUENTIAL DOWNSTREAM RUN OF PIPE. ADDITIONALLY, PRIOR TO COMPLETION OF CONSTRUCTION, CONTRACTOR SHALL TELEVISE THE NEWLY INSTALLED SANITARY SEWER MAIN TO ENSURE NO DIPS OR DEBRIS WITHIN LINE.
2. MATERIALS:
   A. ALL PVC 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.
   B. ALL FITTINGS AND ACCESSORIES SHALL BE AS MANUFACTURED OR SUPPLIED BY THE PIPE MANUFACTURER OR APPROVED EQUAL.
   C. ALL SANITARY CLEANOUTS WITHIN PAVEMENT SHALL HAVE A LID THAT IS H20 LOADING.
3. INSTALLATION:
   A. PIPE AND FITTINGS:
      1) SEWER PIPE SHALL BE INSTALLED IN ACCORDANCE WITH ASTM D2321, AND THE UNI-BELL PLASTICS PIPE ASSOCIATION'S "RECOMMENDED PRACTICE FOR THE INSTALLATION OF PVC SEWER PIPE".
      2) BEDDING AND INITIAL BACKFILL (12 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.
   B. CLEANOUTS:
      1) CLEANOUTS SHALL BE SET PLUMB TO LINE AND GRADE ON FIRM CLEAN SUBGRADE PROVIDING UNIFORM BEARING UNDER THE BASE.
      2) ALL OPENINGS AND JOINTS SHALL BE SEALED WATER-TIGHT.
   C. SERVICE:
      1) MINIMUM SLOPE OF ALL SERVICE LINES SHALL BE 1.00%.
      2) EACH SERVICE CONNECTION SHALL BE PLUGGED WATER-TIGHT WITH AN APPROVED PLUG.
      3) CONNECTION OF SERVICES TO BUILDING'S PLUMBING SHALL BE COORDINATED WITH THE ARCHITECTURAL DRAWINGS.
4. TESTING:
   A. 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.
   B. AN AIR TEST MAY BE SUBSTITUTED FOR THE WATER EXFILTRATION TEST, UPON APPROVAL OF THE ENGINEER.
   C. 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.
   D. CONTRACTOR IS RESPONSIBLE FOR CORRECTING ANY DEFICIENCIES PRIOR TO THE CERTIFICATION TO ANY AGENCY.
   E. GENERAL CONTRACTOR SHALL EMPLOY AN INDEPENDENT INSPECTOR FOR 100% CONTINUOUS INSPECTION OF THE BEDDING AND BACKFILL OPERATION. COMPACTION TESTS SHALL BE TAKEN AT THE BOTTOM OF TRENCH AND AT EACH LIFT OF BACKFILL.
   F. GENERAL CONTRACTOR SHALL EMPLOY A LICENSED SURVEYOR ASOBUILT TOP OF PIPE ELEVATIONS TAKEN WHEN BEDDING OPERATION IS 75% COMPLETE. THESE ELEVATIONS SHALL BE TAKEN AT POINTS OF CONNECTION, CHANGES IN DIRECTION AND AT MINIMUM 20' INTERVALS ALONG THE LENGTH OF THE PIPE. THESE ELEVATIONS SHALL BE RECORDED AS AS-BUILT DIMENSIONS ON SITE PLAN REVIEW BY PROJECT ENGINEER.
   G. ALL SANITARY LINES ARE TO BE FLUSHED PRIOR TO CONTRACTOR TURNOVER OF THE FACILITY.

SANITARY CLEANOUT SCHEDULE:

C.O.1 RIM ELEV = AT GRADE I.E. = 18.10	C.O.2 RIM ELEV = AT GRADE I.E. = 17.95	C.O.3 (2-WAY C.O.) RIM ELEV = AT GRADE I.E. = 18.25	C.O.4 RIM ELEV = AT GRADE I.E. = 17.80
C.O.5 RIM ELEV = AT GRADE I.E. = 17.55	C.O.6 RIM ELEV = AT GRADE I.E. = 17.95	C.O.7 (2-WAY C.O.) RIM ELEV = AT GRADE I.E. = 18.25	C.O.8 RIM ELEV = AT GRADE I.E. = 18.00
C.O.9 (2-WAY C.O.) RIM ELEV = AT GRADE I.E. = 18.25	C.O.10 RIM ELEV = AT GRADE I.E. = 17.40	C.O.11 RIM ELEV = AT GRADE I.E. = 14.00	

UTILITY CROSSING SCHEDULE:

X-ING 1 TOP UTILITY: 6" SANITARY SANITARY B/P ELEV = 18.20 BOTTOM UTILITY: 12" STORM STORM T/P ELEV = 15.10	X-ING 2 TOP UTILITY: 6" SANITARY SANITARY B/P ELEV = 18.20 BOTTOM UTILITY: 12" STORM STORM T/P ELEV = 14.95	X-ING 3 TOP UTILITY: 6" SANITARY SANITARY B/P ELEV = 18.20 BOTTOM UTILITY: 12" STORM STORM T/P ELEV = 13.75
X-ING 4 TOP UTILITY: 6" SANITARY SANITARY B/P ELEV = 16.15 BOTTOM UTILITY: 12" STORM STORM T/P ELEV = 13.75	X-ING 5 TOP UTILITY: 6" SANITARY SANITARY B/P ELEV = 15.55 BOTTOM UTILITY: 15" STORM STORM T/P ELEV = 14.05	X-ING 6 TOP UTILITY: 6" SANITARY SANITARY B/P ELEV = 13.65 BOTTOM UTILITY: 15" STORM STORM T/P ELEV = 12.45

X-INGS MARKED WITH ◯ MAINTAIN A MINIMUM OF 12" OF VERTICAL CLEARANCE BETWEEN UTILITIES

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REVISIONS

REV	DATE	COMMENT	BY
1	8/9/2016	PER CITY COMMENTS	SMT
2	10/20/2016	REVISIONS PER SFWMD COMMENTS	SMT
3	4/10/2017	PER FDOT AND SFWMD COMMENTS	DJE
4	4/24/2017	PER CITY OF FORT PIERCE COMMENTS	SGM
5	5/12/2017	PER CITY OF FORT PIERCE COMMENTS	SGM
6	6/21/2017	PER FDOT COMMENTS	SGM
7	7/14/2017	PER FDOT COMMENTS	SGM

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APPROVED FOR CONSTRUCTION

PROJECT No.:	FLB15009
DRAWN BY:	DJE
CHECKED BY:	CR
DATE:	06/24/16
SCALE:	1" = 30'
CAD I.D.:	UP3

PROJECT:
SR 70 AND JENKINS
FOR
WAWA
Wawa

LOCATION OF SITE
SEC SR 70 & S JENKINS RD
FORT PIERCE, FLORIDA

BOHLER ENGINEERING
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SHEET TITLE:
UTILITY PLAN

SHEET NUMBER:
C-9

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