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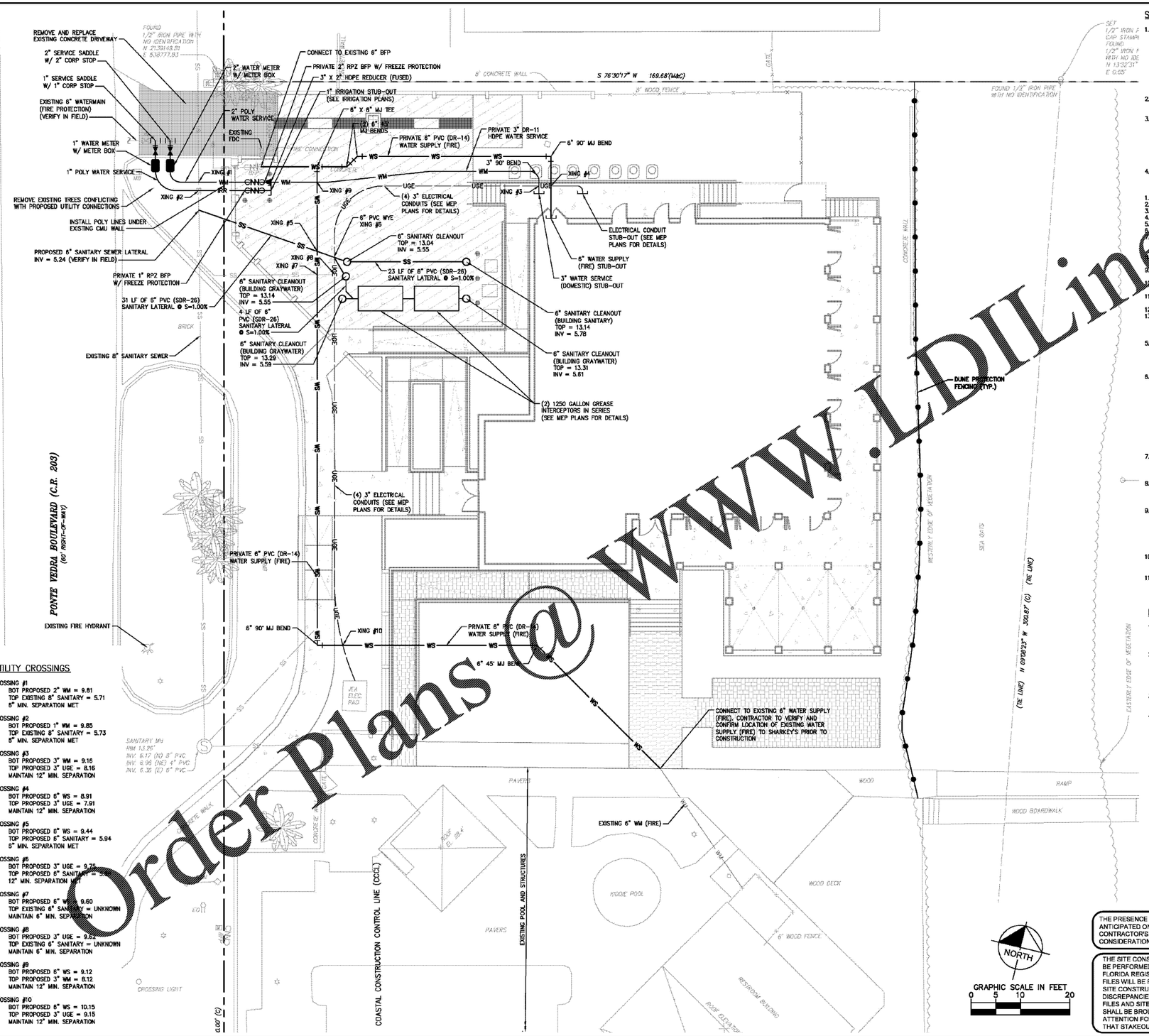

UTILITY CROSSINGS

CROSSING #1
BOT PROPOSED 2" WM = 9.81
TOP EXISTING 8" SANITARY = 5.71
5" MIN. SEPARATION MET

CROSSING #2
BOT PROPOSED 1" WM = 9.85
TOP EXISTING 8" SANITARY = 5.73
5" MIN. SEPARATION MET

CROSSING #3
BOT PROPOSED 3" WM = 9.16
TOP PROPOSED 3" UGE = 8.16
MAINTAIN 12" MIN. SEPARATION

CROSSING #4
BOT PROPOSED 6" WS = 8.91
TOP PROPOSED 3" UGE = 7.91
MAINTAIN 12" MIN. SEPARATION

CROSSING #5
BOT PROPOSED 6" WS = 9.44
TOP PROPOSED 6" SANITARY = 5.94
5" MIN. SEPARATION MET

CROSSING #6
BOT PROPOSED 3" UGE = 9.75
TOP PROPOSED 6" SANITARY = 5.
12" MIN. SEPARATION MET

CROSSING #7
BOT PROPOSED 6" WM = 9.60
TOP EXISTING 6" SANITARY = UNKNOWN
MAINTAIN 6" MIN. SEPARATION

CROSSING #8
BOT PROPOSED 3" UGE = 9.82
TOP EXISTING 6" SANITARY = UNKNOWN
MAINTAIN 6" MIN. SEPARATION

CROSSING #9
BOT PROPOSED 6" WS = 9.12
TOP PROPOSED 3" WM = 8.12
MAINTAIN 12" MIN. SEPARATION

CROSSING #10
BOT PROPOSED 6" WS = 10.15
TOP PROPOSED 3" UGE = 9.15
MAINTAIN 12" MIN. SEPARATION

ST. JOHNS COUNTY FIRE PROTECTION NOTES:

1. FIRE PROTECTION FOR THE PURPOSE OF THESE PLANS IS ANY UNDERGROUND WATER LINE NOT OWNED AND MAINTAINED BY A PUBLIC UTILITY AS WELL AS ANY PRIVATE FIRE SERVICE MAIN AND PIPE AND ITS APPURTENANCES ON PRIVATE PROPERTY (1) BETWEEN A SOURCE OF WATER AND THE BASE OF THE SYSTEM RISER FOR WATER-BASED FIRE PROTECTION SYSTEMS, (2) BETWEEN A SOURCE OF WATER AND INLETS TO FOAM-MAKING SYSTEMS, (3) BETWEEN A SOURCE OF WATER AND THE BASE ELBOW OF PRIVATE HYDRANTS OR MONITOR NOZZLES AND (4) USED AS FIRE PUMP SUCTION AND DISCHARGE PIPING, (5) BEGINNING AT THE INLET SIDE OF THE CHECK VALVE ON A GRAVITY OR PRESSURE TANK.
2. THIS SHALL ALSO APPLY TO COMBINED SERVICE MAINS USED TO CARRY WATER FOR FIRE SERVICE AND OTHER USES. I.E. DOMESTIC.
3. STANDARDS TO BE REFERENCED ARE TO BE THE MOST CURRENT AS ADOPTED BY THE FLORIDA FIRE PREVENTION CODE: NFPA 24, INSTALLATION OF PRIVATE FIRE SERVICE MAINS & THEIR APPURTENANCES; NFPA 20, STANDARD FOR INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION; NFPA 22, STANDARD FOR WATER TANKS FOR PRIVATE FIRE PROTECTION; NFPA 16, STANDARD ON DELUGE FOAM-WATER SPRINKLER & FOAM-WATER SPRAY SYSTEMS; NFPA 1963 STANDARD FOR FIRE HOSE CONNECTIONS
4. ITEMS ON THE CONSTRUCTION PLANS SHALL INCLUDE BUT NOT LIMITED TO SCALE DRAWINGS AND DETAILS AND SO INCLUDE THE FOLLOWING ITEMS WHEN THEY ARE APPLICABLE TO THE SYSTEM BEING INSTALLED:

1. NAME OF OWNER OR GROUP.
2. LOCATION, INCLUDING STREET ADDRESS.
3. POINT OF COMPASS.
4. A GRAPHIC REPRESENTATION OF THE SCALE USED ON ALL PLANS.
5. NAME AND ADDRESS OF CONTRACTOR.
6. SIZE AND LOCATION OF WATER SUPPLIES.
7. SIZE AND LOCATION OF FEED PIPING, INDICATING, WHERE POSSIBLE, THE CLASS AND TYPE AND DEPTH OF EXISTING PIPE, THE CLASS AND TYPE OF NEW PIPE TO BE INSTALLED, AND THE DEPTH TO WHICH IT IS TO BE BURIED.
8. SIZE, TYPE, AND LOCATION OF VALVES. INDICATE IF LOCATED IN PIT OR IF OPERATION IS BY POST INDICATOR OR KEY WRENCH THROUGH A CURB BOX.
9. LOCATION OF FIRE DEPARTMENT CONNECTIONS, IF PART OF PRIVATE FIRE SERVICE MAIN SYSTEM, INCLUDING DETAIL OF CONNECTIONS.
10. SPRINKLER AND STANDPIPE RISERS AND MONITOR NOZZLES TO BE SUPPLIED BY THE SYSTEM.
11. LOCATION OF FIRE DEPARTMENT CONNECTIONS, IF PART OF PRIVATE FIRE SERVICE MAIN SYSTEM, INCLUDING DETAIL OF CONNECTIONS.
12. ALL COMPONENTS MUST HAVE LISTING WITH FIRE PROTECTION PER NFPA 24.
13. ALL FIRE HYDRANTS INSTALLED IN ST. JOHNS COUNTY MUST HAVE A SINGLE 4.5 INCH HOSE OUTLET, AND TWO (2.5) INCH HOUSE OUTLETS, ALL WITH MALE NH STANDARD THREADS, IN ACCORDANCE WITH NFPA 1963.

5. A COPY THESE APPROVED ENGINEERED PLANS SHALL ACCOMPANY A REQUIRED FIRE MARSHAL UNDERGROUND PERMIT SUBMITTED BY A CERTIFIED CONTRACTOR. THIS UNDERGROUND PERMIT WILL REQUIRE ADDITIONAL DETAILS AND SPECS AT THE TIME OF SUBMITTAL TO THE FIRE MARSHALS' OFFICE.
6. CONTRACTORS INSTALLING THE UNDERGROUND PIPING IN ACCORDANCE WITH THE ABOVE REFERENCE STANDARDS FOR A FIRE PROTECTION SYSTEM USING WATER AS THE EXTINGUISHING AGENT BEGINNING AT THE POINT AT WHICH THE PIPING IS USED EXCLUSIVELY FOR FIRE PROTECTION AND ENDING NO MORE THAN 1 FOOT ABOVE THE FLOOR SHALL BE REQUIRED TO HAVE A CLASS I, II, OR V FIRE PROTECTION CONTRACTORS LICENSE PURSUANT TO CHAPTER 633, FLORIDA STATUTES. GENERAL CONTRACTORS ARE REMINDED THAT THEY ARE RESPONSIBLE FOR VERIFYING THAT THEIR SUBCONTRACTORS HOLD THE REQUIRED LICENSES. CONTRACTORS FOUND TO BE VIOLATING THIS REQUIREMENT MAY BE REPORTED TO THE DEPARTMENT OF BUSINESS AND PROFESSIONAL REGULATION AND/OR THE STATE FIRE MARSHAL'S REGULATORY LICENSING SECTION.
7. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A PERMIT FROM THE FIRE MARSHAL'S OFFICE PRIOR TO THE START OF SITE CONSTRUCTION IN ACCORDANCE WITH THE ABOVE REFERENCED STANDARDS.
8. NOTE: MINIMUM WORKING PRESSURE OF THE UNDERGROUND PIPING SHALL BE 150 PSI. NFPA 24 REQUIRES SPECIFIC PVC PIPING TO MEET TABLE C-900 WITH MANUFACTURING LISTING FOR FIRE PROTECTION.
9. ALL FIRE LINES MUST BE INSPECTED BY THE FIRE MARSHAL'S OFFICE PRIOR TO BACKFILL. THE CODE REQUIRES ALL JOINTS EXPOSED FOR INSPECTION WITH FILL IN-BETWEEN JOINTS. ALL PIPING AND ATTACHED APPURTENANCES SUBJECTED TO SYSTEM WORKING PRESSURE SHALL BE HYDROSTATICALLY TESTED AT 200 PSI OR 50 PSI IN EXCESS OF THE SYSTEM WORKING PRESSURE, WHICHEVER IS GREATER, AND SHALL MAINTAIN THAT PRESSURE WITHOUT LOSS FOR 2 HOURS.
10. ALL FIRE HYDRANTS SHALL OPEN COUNTER CLOCKWISE WITH THE LARGEST HOSE OUTLET NOT LESS THAN 18" ABOVE FINAL GRADE AND FACING THE ROADWAY.
11. WATER AS BUILTS ARE REQUIRED TO BE SUBMITTED TO THE FIRE MARSHAL'S OFFICE FOR ALL NEW AND EXISTING FIRE HYDRANTS. FIRE HYDRANTS AND STREET NAMES ARE REQUIRED ON ALL AS BUILTS.

PLAN NOTES:

1. ALL PRIVATE WATER SUPPLY PIPING ASSOCIATED WITH FIRE PROTECTION SHALL BE INSTALLED IN ACCORDANCE WITH NFPA-24 (LATEST EDITION) AND CONTRACTOR SHALL HOLD A CONTRACTOR V, FIRE PROTECTION LICENSE WITH THE STATE OF FLORIDA.
2. 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.
3. CONTACT CHRIS BARRINGTON (904) 665-4081 WITH JEA DEVELOPMENT TO SCHEDULE A PRE-CONSTRUCTION MEETING PRIOR TO BEGINNING CONSTRUCTION.
4. FOR FLOW TEST DATA REFER TO SHEET C-03

LEGEND:

FM	EXISTING FORCEMAIN
WM	EXISTING WATER MAIN
FO	EXISTING BURIED FIBER OPTIC
FS	EXISTING FIRE SUPPLY LINE
WM	PROPOSED WATER MAIN
W	PROPOSED WATER LINE
WS	PROPOSED WATER SUPPLY MAIN (FIRE)
SS	PROPOSED GRAVITY SANITARY SEWER
FM	PROPOSED FORCEMAIN

ALL PRIVATE WATER SUPPLY PIPING ASSOCIATED WITH FIRE PROTECTION SHALL BE INSTALLED IN ACCORDANCE WITH NFPA-24 (LATEST EDITION) AND CONTRACTOR SHALL HOLD A CONTRACTOR V, FIRE PROTECTION LICENSE WITH THE STATE OF FLORIDA.

THE PRESENCE OF GROUNDWATER SHOULD BE ANTICIPATED ON THIS PROJECT. CONTRACTOR'S BID SHALL INCLUDE CONSIDERATION FOR ADDRESSING THIS ISSUE.

PROJECT DATUM: NAVD' 88

THE SITE CONSTRUCTION STAKEOUT SHALL BE PERFORMED UNDER THE DIRECTION OF A FLORIDA REGISTERED SURVEYOR. AUTOCAD FILES WILL BE FURNISHED TO AID IN THE SITE CONSTRUCTION STAKEOUT. ANY DISCREPANCIES FOUND BETWEEN AUTOCAD FILES AND SITE CONSTRUCTION PLANS SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION FOR CLARIFICATION PRIOR TO THAT STAKEOUT.

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NO.	REVISIONS	DATE	BY

Kimley»Horn
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JACKSONVILLE, FLORIDA 32258
PHONE: 904-828-3900
WWW.KIMLEY-HORN.COM REGISTRY 696

JOSEPH P. MECCA LICENSE No. 53192 STATE OF FLORIDA PROFESSIONAL ENGINEER

LICENSED PROFESSIONAL
JOSEPH P. MECCA, P.E.
FLORIDA LICENSE NUMBER
53192
THIS ITEM HAS BEEN ELECTRONICALLY SIGNED AND SEALED BY:
JOSEPH P. MECCA, P.E.
PRINTED COPIES OF THIS DOCUMENT ARE NOT CONSIDERED SIGNED AND SEALED AND THE SIGNATURE MUST BE VERIFIED ON ANY ELECTRONIC COPIES

KHA PROJECT	045538000
DATE	MAY 2020
SCALE:	AS SHOWN
DESIGNED BY:	WJG
DRAWN BY:	CDC
CHECKED BY:	JPM

UTILITY PLAN

MARRIOTT SAWGRASS CABANA BEACH CLUB
PREPARED FOR
CWI SAWGRASS HOTEL, LLC

ST. JOHNS COUNTY FLORIDA

SHEET NUMBER
C-10