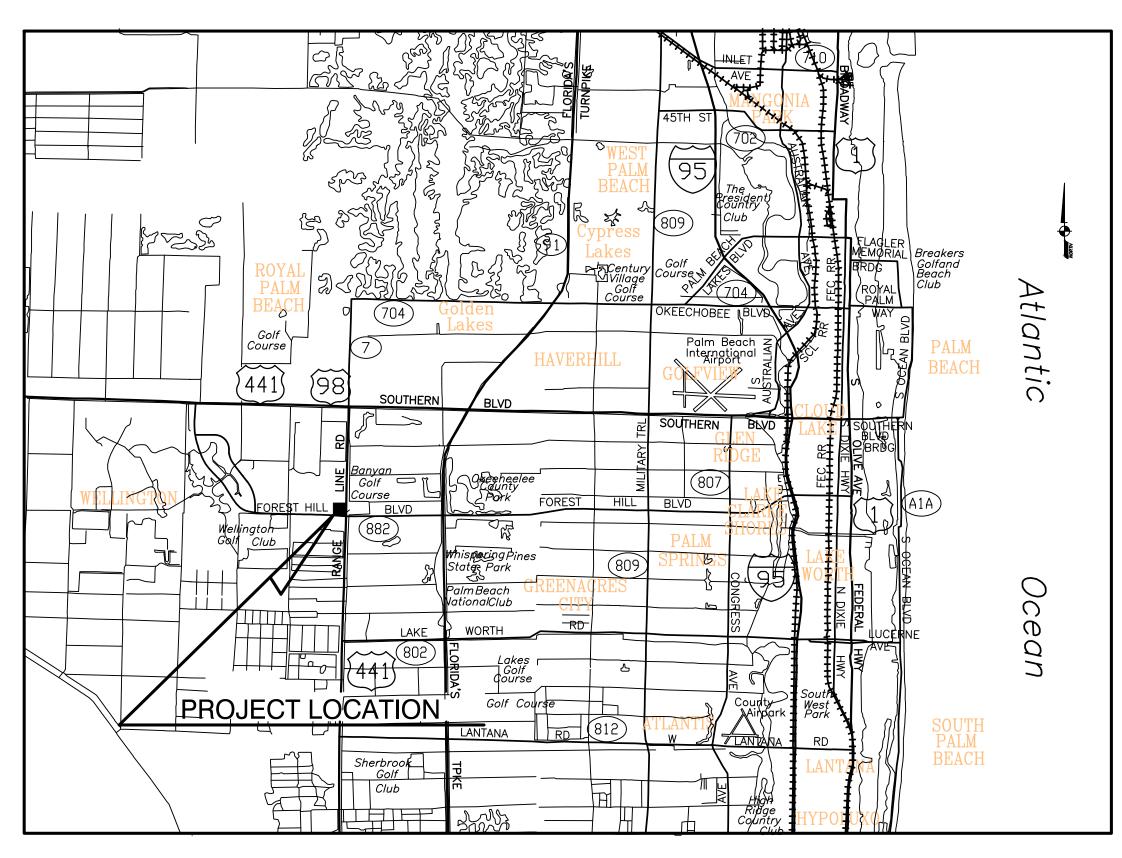
VILLAGE OF WELLINGTON



WELLINGTON REGIONAL HOSPITAL WATER SERVICE MODIFICATIONS

MARCH, 2018



VILLAGE ADMINISTRATORS

MAYOR - ANNE GERWIG
VICE MAYOR - JOHN T McGOVERN
COUNCILMAN - MICHAEL J. NAPOLEONE
COUNCILMAN - MICHAEL DRAHOS
COUNCILWOMAN - TANYA SISKIND
VILLAGE MANAGER - PAUL SCHOFIELD
ASST. VILLAGE MANAGER - JAMES BARNES
UTILITIES DIRECTOR - SHANNON LAROCQUE

SHEET TITLE	SHEET NO.
COVER SHEET	G-01
GENERAL NOTES	G-02
EXISTING SITE SURVEY	C-01
PROPOSED PIPING PLAN	C-02
PROPOSED PIPING PLAN (ENLARGED VIEW)	C-03
WATER SERVICE DEMOLITION PLAN	C-04
EXISTING WATER SERVICE PLAN AND PROFILE	C-05
STANDARD DETAILS	D-01
STANDARD DETAILS AND NOTES	D-02

VICINITY MAP

Kimley» Horn

1920 WEKIVA WAY SUITE 200, WEST PALM BEACH, FL 33411
PHONE: 561-845-0665 FAX: 561-863-8175
WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT
144957012

DATE
MARCH 2018

SCALE AS SHOWN
DESIGNED BY TCJ
DRAWN BY CE

CHECKED BY

WELLINGTON REGIONAL HOSPITAL WATER SERVICE MODIFICATIONS
PREPARED FOR

PREPARED FOR

WELLINGTON REGIONAL HOSPITAL

PALM BEACH COUNTY

PREPARED FOR

FLORIDA DATE:

THOMAS C. JENSEN

FLORIDA LICENSE NUMBER

37290

COVER SHEET

SHEET NUMBER

T G-01

GENERAL NOTES

- 1. THE CONTRACTOR SHALL HAVE AVAILABLE AT THE JOB SITE AT ALL TIMES ONE (1) COPY OF THE CONTRACT DOCUMENTS, INCLUDING PLANS, SPECIFICATIONS AND COPIES OF ALL REQUIRED CONSTRUCTION PERMITS.
- 2. THE CONTRACTOR SHALL CONTACT ALL CONCERNED UTILITIES AT LEAST 48 HOURS IN ADVANCE OF CONSTRUCTION OPERATIONS.
- 3. THE LOCATION AND SIZE OF ALL EXISTING UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE AND ARE BASED ON THE BEST AVAILABLE INFORMATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL EXISTING UTILITIES. THE CONTRACTOR SHALL VERIFY ALL UTILITIES BY ELECTRONIC METHOD AND BY HAND EXCAVATION IN COORDINATION WITH ALL UTILITY COMPANIES PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. ANY AND ALL CONFLICTS OF EXISTING UTILITIES WITH PROPOSED IMPROVEMENTS SHALL BE RESOLVED BY THE ENGINEER AND THE VILLAGE PRIOR TO BEGINNING ANY CONSTRUCTION OPERATIONS. THIS WORK BY THE CONTRACTOR SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION SHALL BE ALLOWED.
- 4. IT IS THE CONTRACTOR'S RESPONSIBILITY TO ENSURE HIS COMPLETE FAMILIARITY WITH THE PROJECT SITE AND ITS COMPONENTS TO INCLUDE SUBSURFACE CONDITIONS OF SOIL AND GROUNDWATER TABLE. BY SUBMITTAL OF A BID FOR THIS PROJECT, THE CONTRACTOR ACKNOWLEDGES HIS COMPLETE UNDERSTANDING AND RESPONSIBILITIES WITH RESPECT TO THE CONSTRUCTION ACTIVITIES REQUIRED UNDER THE SCOPE OF THIS PROJECT.
- 5. THE CONTRACTOR IS RESPONSIBLE FOR THE PROTECTION AND RESTORATION (IF DAMAGED) OF ALL EXISTING STRUCTURES WITHIN THE CONSTRUCTION LIMITS OF THE PROJECT, INCLUDING BUT NOT LIMITED TO; WALLS, FENCES, POWER POLES, MAIL BOXES, DRAINAGE STRUCTURES, LANDSCAPING, ETC.
- 6. PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE FOLLOWING 48 HOURS BEFORE DIGGING:
 - 1. VILLAGE OF WELLINGTON
 - 2. FLORIDA POWER AND LIGHT
 - 3. SOUTHERN BELL TELEPHONE
 - 4. ADELPHIA CABLE TV
 - 5. SUNSHINE STATE ONE CALL OF FLORIDA INC.
- 7. VILLAGE OF WELLINGTON (VOW) WRITTEN SPECIFICATIONS AND STANDARD DETAILS (LATEST EDITION) ARE TO BE CONSIDERED PART OF THIS PROJECT AND CONSTRUCTION SHALL BE ENFORCED TO AT LEAST THESE MINIMUM STANDARDS.
- 8. ALL MATERIAL MUST CONFORM TO APPROVED SHOP DRAWINGS. ANY CHANGES MUST BE APPROVED BY THE ENGINEER AND VOW PRIOR TO INSTALLATION. FAILURE OF THE INSPECTOR TO CALL TO THE ATTENTION OF THE CONTRACTOR ANY ITEM NOT IN CONFORMANCE WITH PLANS AND SPECS SHALL NOT CONSTITUTE ACCEPTANCE OF THE ITEM.
- 9. VOW REPRESENTATIVES SHALL BE PRESENT DURING ALL OPERATIONS INVOLVING EXISTING UTILITIES.
- 10. NO CONCRETE THRUST BLOCKS WILL BE ALLOWED. ALL JOINTS SHALL BE MECHANICALLY RESTRAINED AS REQUIRED BY THE VOW.
- 11. NO SERVICE INTERRUPTIONS ARE ALLOWED FOR THIS PROJECT.
- 12. ALL PIPING MUST BE INSTALLED DRY.
- 13. MINIMUM COVER SHALL BE 36 INCHES FROM FINISH GRADE.

MINIMUM COVER UNDER DITCH/CANAL BOTTOMS SHALL BE 24 INCHES.

MAXIMUM COVER SHALL BE 42 INCHES FROM FINISHED GRADE.

- 14. ALL PIPING PROPOSED FOR THIS PROJECT SHALL BE DIP.
- 15. TAPPING SLEEVES & VALVES SHALL BE A MINIMUM OF 3 FEET FROM A PIPE JOINT AND SERVICE TAPS SHALL BE A MINIMUM OF 18 INCHES APART AND 18 INCHES FROM A BELL OR FITTING.
- 16. AN APPROPRIATELY MARKED 6 INCH METALLIC BACKED INDICATOR TAPE IS REQUIRED OVER ALL PVC MAINS INSTALLED ONE (1) FOOT BELOW GRADE.
- 17. ALL FIRE HYDRANTS SHALL MAINTAIN PROPER CLEAR ZONE PER PBC FIRE MARSHAL STANDARDS.
- 18. PAVEMENT REPLACEMENT, INCLUDING CURB, GUTTERS, AND STRIPING SHALL OCCUR WITHIN SEVEN (7) WORKING DAYS FOLLOWING COMPLETION OF OPEN CUT WORK.

- 19. ALL EXPOSED (ABOVE GRADE) DUCTILE IRON WATER MAIN SHALL BE COLOR CODED TNEMEC SAFETY BLUE. FOR EXPOSED FIRE LINE DUCTILE IRON PIPING COLOR SHALL BE TNEMEC SAFETY RED.
- 20. ALL BACKFLOW ASSEMBLIES MUST BE REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTERS (RPZ).
- 21. ALL ABOVE GRADE PIPING MUST BE D.I.P. SPECIAL CLASS 53, INSTALLED FROM MAIN AND THROUGH BACKFLOW ASSEMBLY.
- 22. USE OF REPAIR SLEEVES AND / OR REPAIR COUPLINGS IS PROHIBITED WITHOUT PRIOR APPROVAL FROM ENGINEER AND VOW.
- 23. THE WATERMAIN IMPROVEMENTS SHOWN ON SHEETS C-02 AND C-03 IMPACT EXISTING LANDSCAPING AREAS. CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL/REPLACEMENT OF ALL DAMAGED LANDSCAPING (GROUND COVER, HEDGE MATERIAL) AND ASSOCIATED MULCH IN KIND.

REVISIONS	DATE	BY	
	REVISIONS	REVISIONS DATE	REVISIONS DATE BY

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KHA PROJECT
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PALM BEACH COUNTY

WELLINGTON REGIONAL HOSPITAL WATER SERVICE MODIFICATIONS
PREPARED FOR

WELLINGTON REGIONAL HOSPITAL

THOMAS C. JENSEN

FLORIDA LICENSE NUMBER

37290

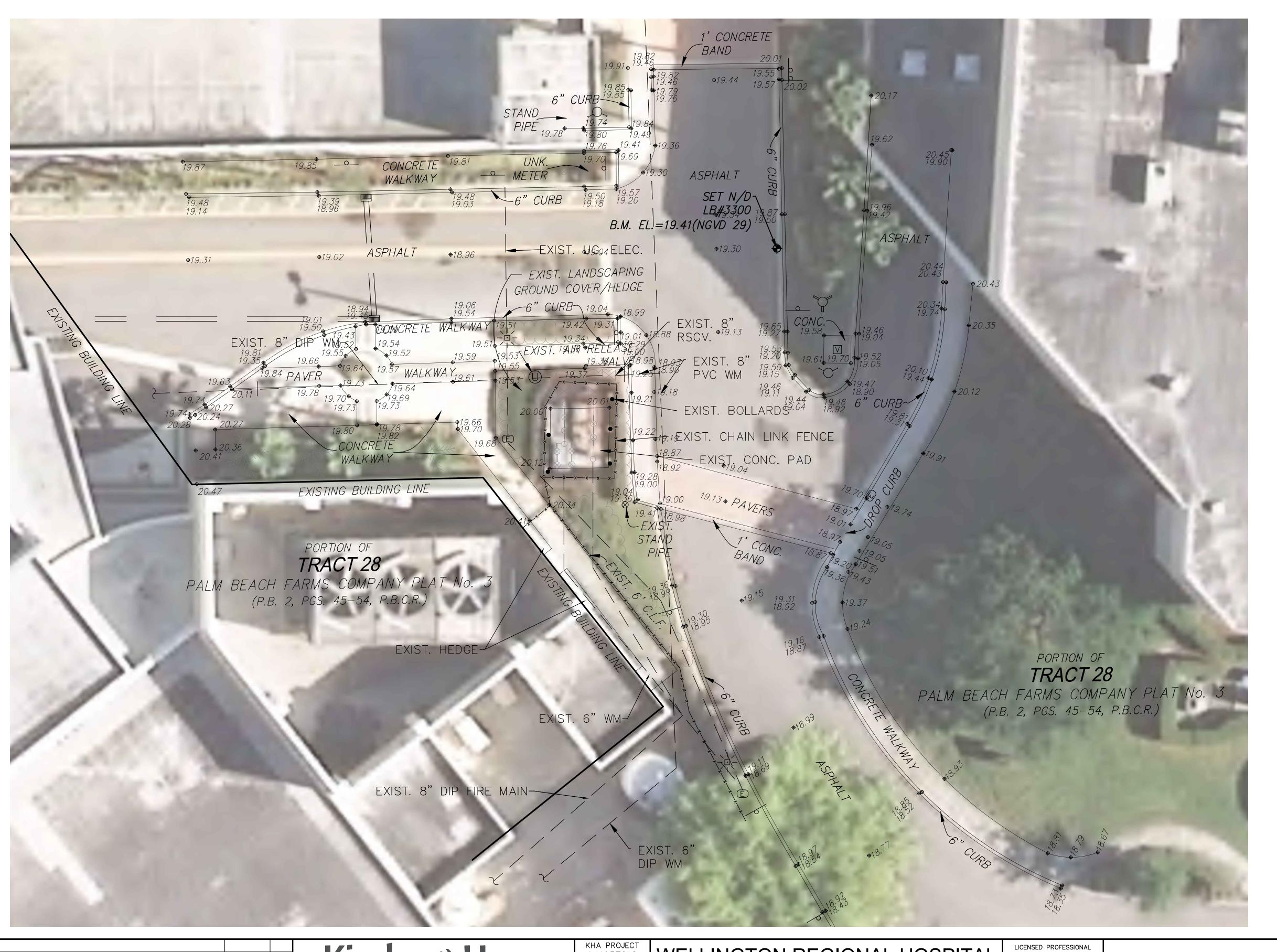
FLORIDA DATE:

LICENSED PROFESSIONAL

GENERAL NOTES

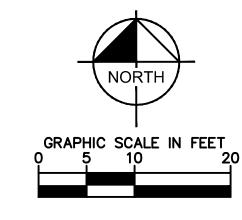
SHEET NUMBER

G-02



SURVEYOR'S REPORT:

- 1. Reproductions of this Sketch are not valid without the signature and the original raised seal of a Florida Licensed Surveyor and Mapper. Additions or deletions to this survey map or report by other than the signing party is prohibited without written consent of the
- 2. No Title Opinion or Abstract to the subject property has been provided. It is possible that there are Deeds, Easements, or other instruments (recorded or unrecorded) which may affect the subject property. No search of the Public Records has been made by the
- 3. No underground improvements were located.
- 4. Elevations shown hereon are in feet and based on the
- National Geodetic Vertical Datum of 1929 (NGVD 1929). 5. Benchmark Description: Palm Beach County Enginnering Benchmark "Earth", Elevation 20.363 (NGVD 1929).
- 6. Data shown hereon was compiled from instrument(s) of record and does not constitute a Boundary Survey.
- 7. Right-of-way lines and lot lines are graphically delineated from information provided by the client and/or obtained by this firm from recorded plats and/ or right-of-way maps, at the time of the survey. This information is spatially placed within the digital file of the topographic survey, based on recovered monumentation to depict the lines relative to the topographic locations. This is not a boundary survey and the information should not be relied as such. It is strongly recommended that if the design is contingent on accurate boundary placement and especially prior to construction, a boundary survey should be performed to establish the lines. We will not be responsible for the misuse of the topographic survey for purposes it was
- 8. Symbols shown hereon and in the legend may have been enlarged for clarity. These symbols have been plotted at the center of the field location and may not represent the actual shape or size of the feature.
- 9. This map is intended to be displayed at a scale of 1:240 (1"=20").
- 10. Units of measurement are in U.S. Survey Feet and decimal parts thereof. Well identified features in this survey were field measured to a horizontal positional accuracy of 0.10'. The elevations on impervious surfaces were field measured to 0.03' and on ground surfaces to
- 11. Abbreviation Legend: B.M. = Benchmark; CONC. = Concrete; EL. = Elevation; INV = Invert; NGVD = National Geodedic Vertical Datum; P.B. = Plat Book; PG. = Page; P.L.S. = Professional Land Surveyor; RCP = Reinforced Corrugated Pipe.



LEGEND

BACK FLOW PREVENTOR VALVE BOLLARD (UNLESS NOTED) CLEAN OUT CONCRETE LIGHT POLE

IRRIGATION CONTROL VALVE SIGN (UNLESS NOTED) **UNKNOWN MANHOLE**

WATER VALVE

				1
				1
No.	REVISIONS	DATE	BY	

Kimley» Horn

1920 WEKIVA WAY SUITE 200, WEST PALM BEACH, FL 33411 PHONE: 561-845-0665 FAX: 561-863-8175 WWW.KIMLEY-HORN.COM CA 00000696

KHA PROJECT 144957012 MARCH 2018 SCALE AS SHOWN ESIGNED BY TC

DRAWN BY

CHECKED BY

WELLINGTON REGIONAL HOSPITAL WATER SERVICE MODIFICATIONS

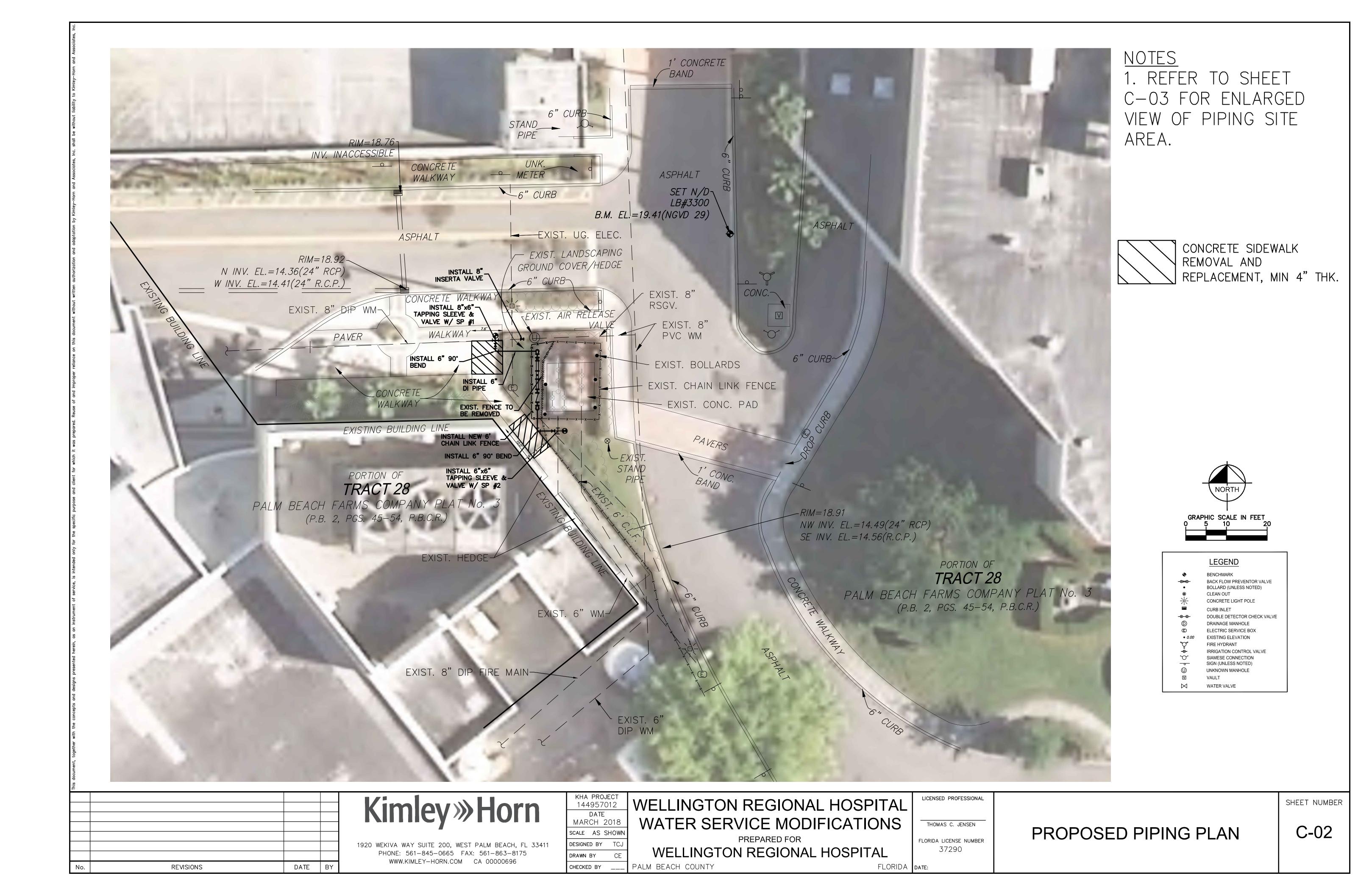
PREPARED FOR WELLINGTON REGIONAL HOSPITAL FLORIDA DATE: PALM BEACH COUNTY

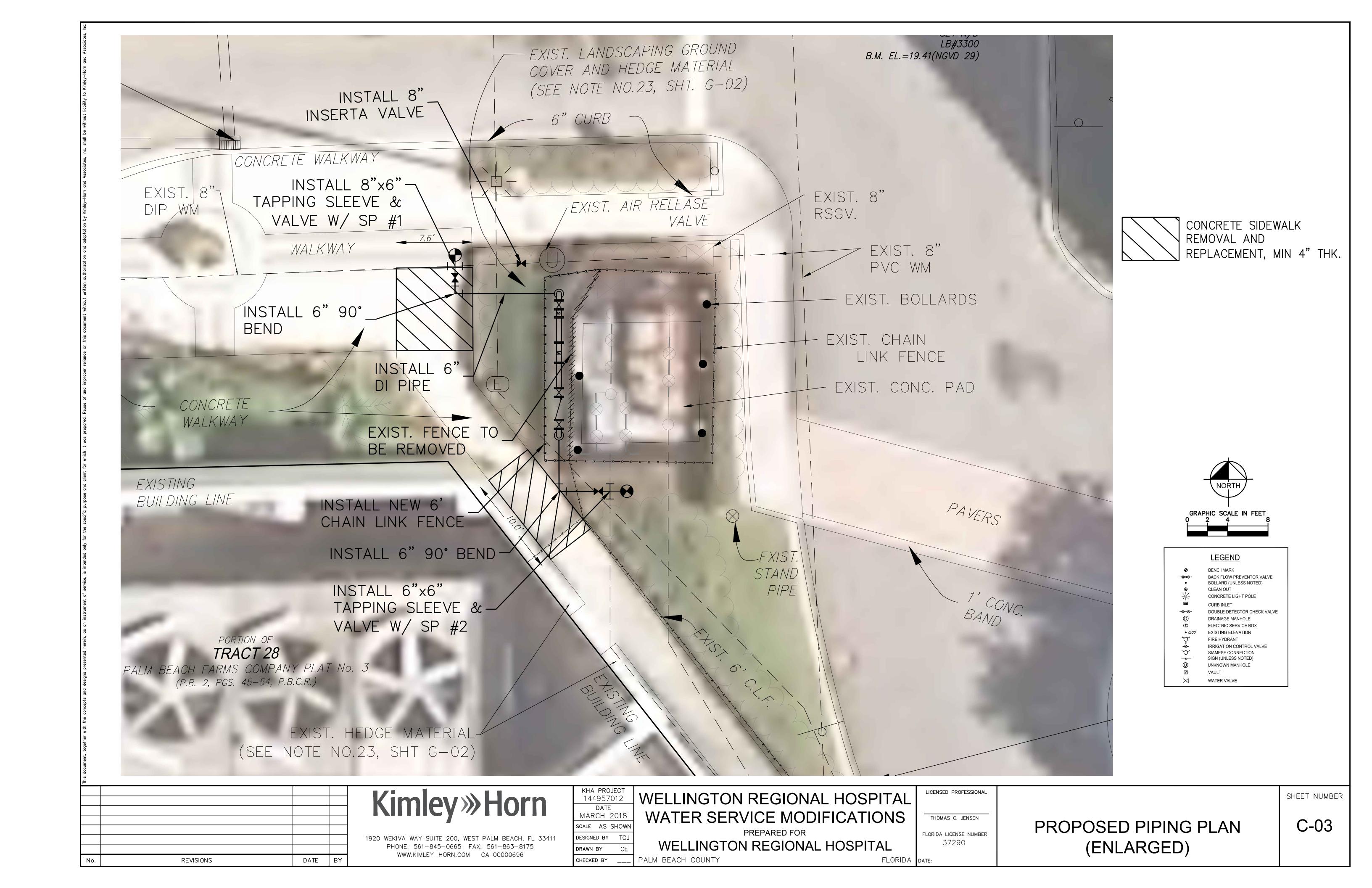
THOMAS C. JENSEN FLORIDA LICENSE NUMBER 37290

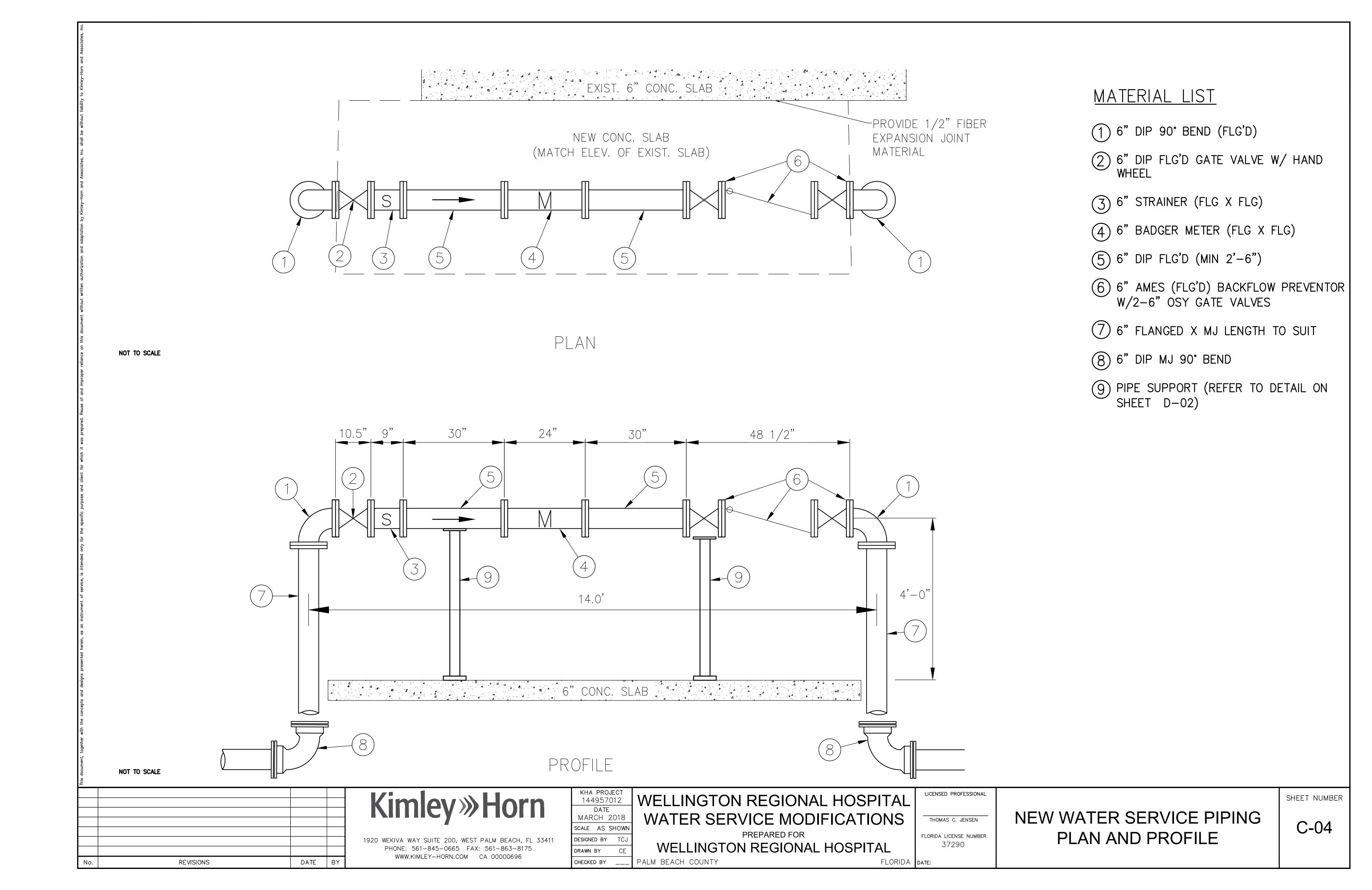
EXISTING SITE SURVEY

SHEET NUMBER

C-01

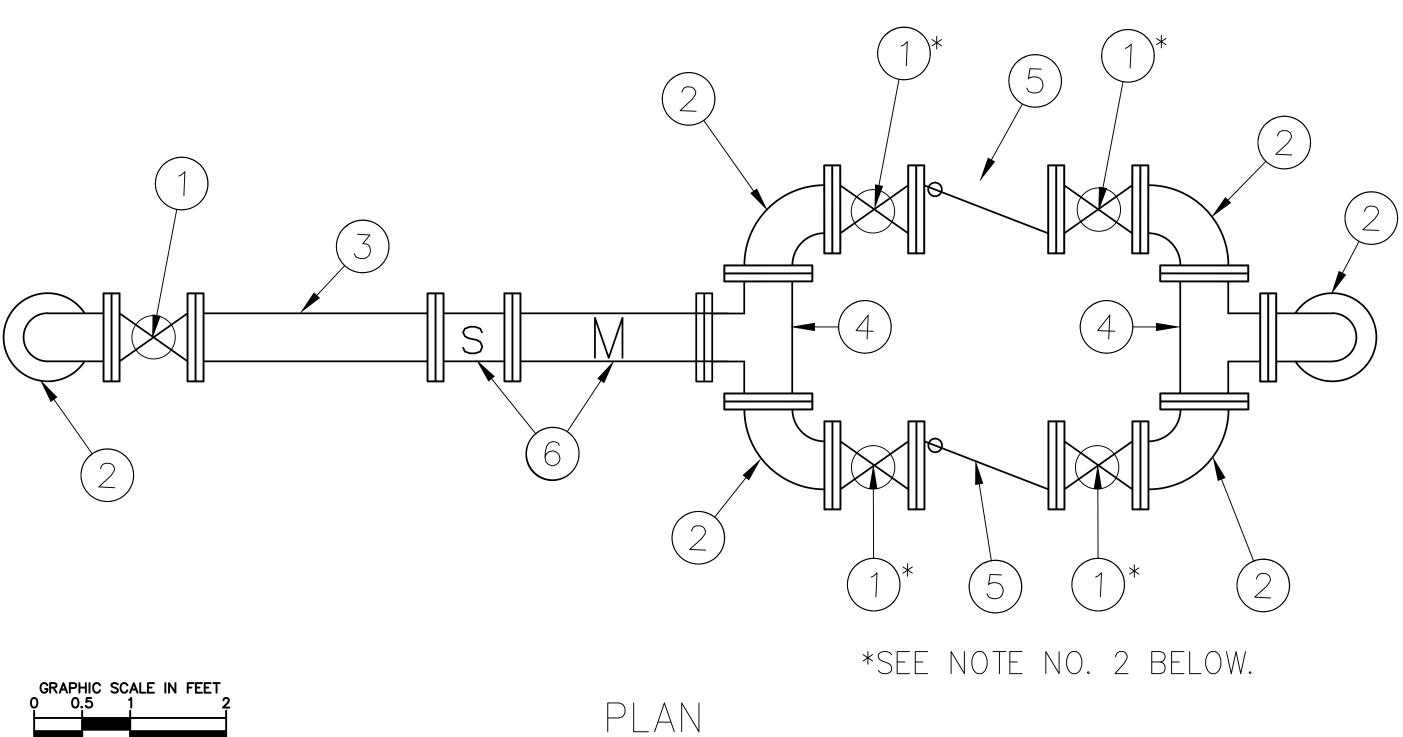








- 6" FLANGED 90° BEND
- 6" FLANGED SPOOL PIECE
- 6" FLANGED TEE
- 6" BACKFLOW PREVENTOR (AMES)
- 6" SENSUS METER AND STRAINER



EXIST. 6" CONC. SLAB

PROFILE

NOTES:

- EXISTING WATER SERVICE ASSEMBLY SHALL REMAIN IN PLACE, AND SHALL BE THE SYSTEM'S EMERGENCY BYPASS.
- 2. THE FOUR (4) VALVES LABELED ABOVE AS (1)* SHALL BE CLOSED AFTER NEW METER ASSEMBLY IS PLACED INTO SERVICE.
- EXISTING ABOVE GRADE PIPE SHALL BE COATED PER NOTE NO. 4 UNDER PIPE AND FITTINGS, SHEET D-02.

				Kimley» Horr
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lo.	REVISIONS	DATE	BY	WWW.KIMLEY—HORN.COM CA 00000696

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DRAWN BY

CHECKED BY

WELLINGTON REGIONAL HOSPITAL WATER SERVICE MODIFICATIONS PREPARED FOR

WELLINGTON REGIONAL HOSPITAL PALM BEACH COUNTY

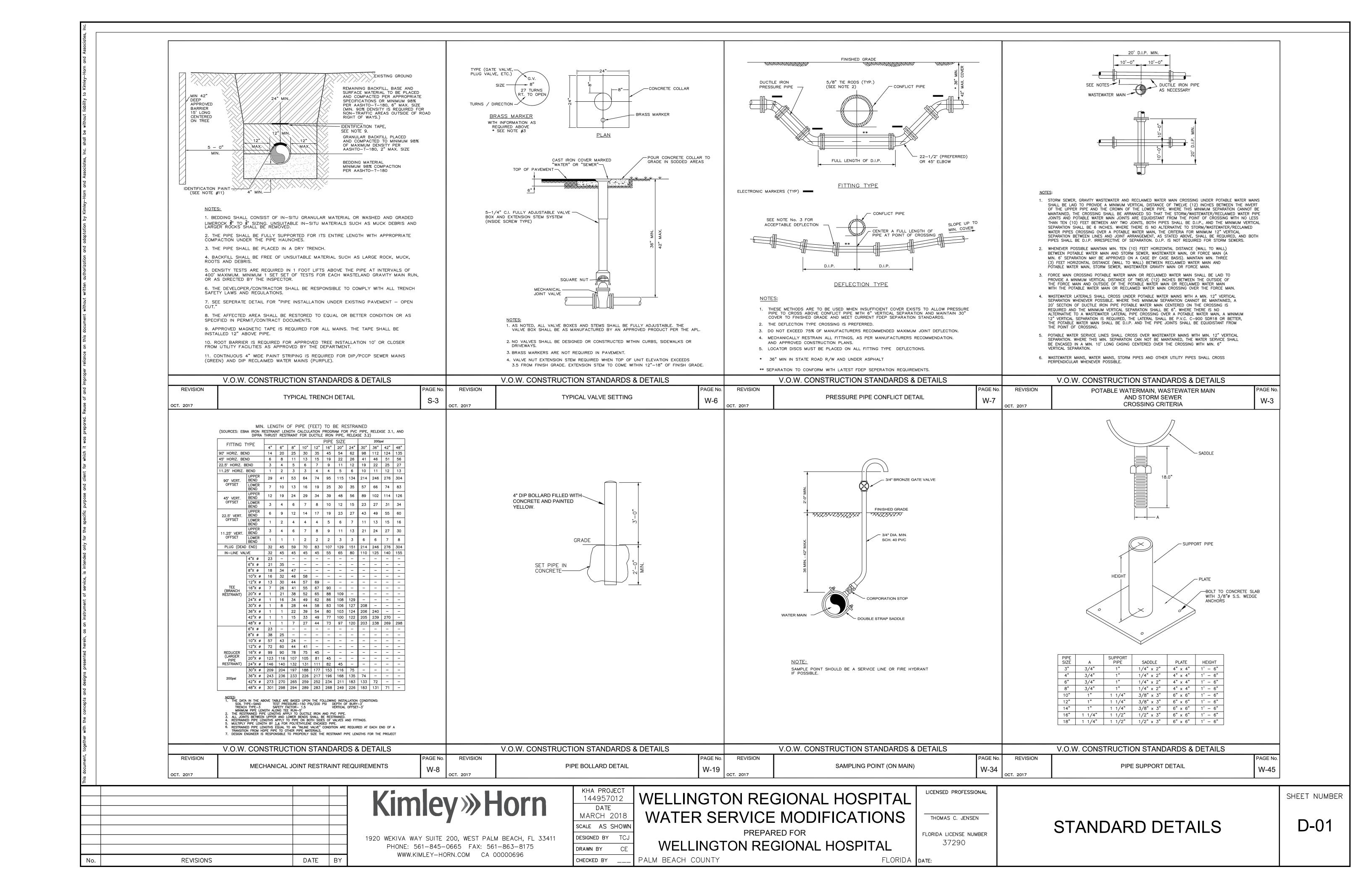
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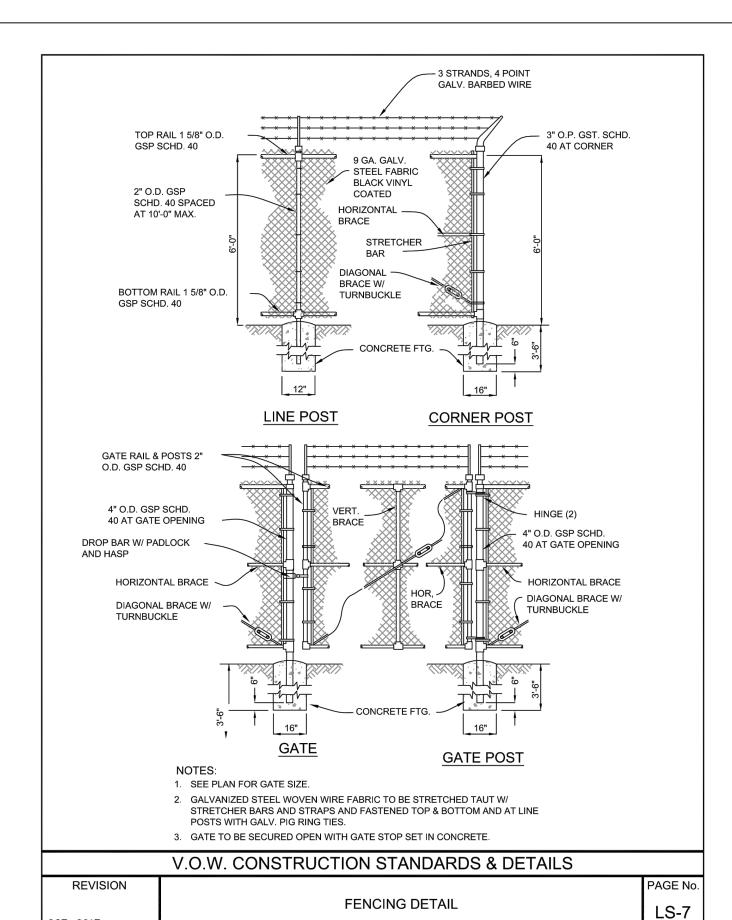
LICENSED PROFESSIONAL

EXISTING WATER SERVICE PLAN AND PROFILE

SHEET NUMBER

C-05





CONSTRUCTION NOTES

- THE CONTRACTOR SHALL MAINTAIN WATER SERVICE TO THE HOSPITAL AT ALL
- ALL WORKERS ARE REQUIRED TO CHECK IN AT THE HOSPITAL FRONT DESK FOR A RECORD AS TO WHO IS ON SITE. AT THE START OF EACH DAY, THE FOREMAN/SUPERINTENDENT ONLY NEEDS TO ADVISE THE FRONT DESK THAT THE CREW IS FINISHED FOR THE DAY.
- THE NEW MASTER METER ASSEMBLY NEEDS TO BE COMPLETELY FINISHED, TESTED AND OPERATIONAL PRIOR TO WORK COMMENCING ON THE EXISTING METER ASSEMBLY, THAT IS BEING MODIFIED TO BE THE SYSTEM EMERGENCY BYPASS ASSEMBLY.
- UPON ACCEPTANCE OF THE NEW MASTER METER ASSEMBLY, AND PLACEMENT OF IT INTO SERVICE, THE CONTRACTOR CAN THEN PROCEED WITH THE DEMOLITION OF THE EXISTING METER ASSEMBLY THAT IS BEING RETROFITTED INTO A METER EMERGENCY BYPASS ASSEMBLY.

VOW STANDARDS

- 1. This project shall adhere to all of requirements of the Water and Wastewater Construction Specifications and Standard Details Manual established by the Village of Wellington, latest edition.
- 2. The Contractor will be required to submit Wellington's Water/Sewer Approved Product List, latest edition, that is included in the back of the Manual of Standards noted above.

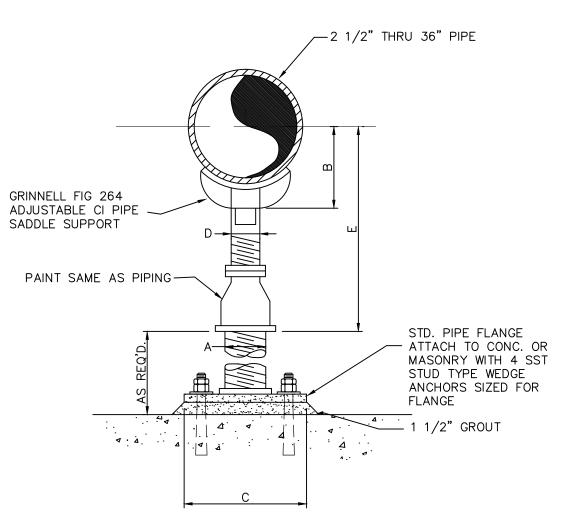
PIPE AND FITTINGS

- 1. All above grade flanged piping shall be ductile iron, Special Class 53, conforming to ANSI/AWWA C115/A21.15, latest edition, with threaded ductile iron flanges. Al flanges shall be ductile iron Class 150, ANSI/AWWA C104/A21.4, latest edition. All gaskets shall be full faced 1/8" black neoprene.
- 2. All buried pipe shall be ductile iron Pressure Class 350. Glands for mechanical joints shall be of ductile iron pipe. Fittings shall be compact fittings in accordance with AWWA C-153.
- 3. The internal surfaces of all water distribution piping/fittings shall be coated with a cement mortar of standard thickness in accordance with ANSI/AWWA C104/A21.4. The outside surface of all buried pipe/fittings shall be coated with a bituminous coating approximately
- 4. The exterior surface of all above ground pipe/fittings shall be coated as follows;
- All ferrous metal surfaces shall be cleaned in accordance with SSPC-SP10 - The primer shall be Amercoat/Tnemec, with a minimum dry film thickness of 3.0 mils.
- The intermediate coat shall be Amercoat/Tnemec, with a minimum dry film thickness
- The finish coat shall be Amercoat/Tnemec, with a minimum dry film thickness of 2.5

VALVES

- 1. All valves shall be resilient seated valves, conforming to ANSI/AWWA C515, latest
- 2. All buried valves shall have a 2-inch operating nut, above grade valves shall have a
- 3. The InsertValve assembly shall be resilient seat type meeting ANSI/AWWA C515
- standards, with a 2-inch operating nut per the manufacturer's listed in the Village's Approved Product List. 4. The meter assembly shall include a new reduced pressure backflow assembly that will be complete with two (2) OSY flanged resilient seated gate valve. The backflow preventor assembly shall be manufactured by Ames Series 4000SS.

1. The new meter assembly and plate strainer shall be a Badger Meter, Recordall Compound Series Meter (6-inches). Note that the meter assembly and associated strainer shall be purchased by the Village and installed by the contractor.



PIPE SUPPORT DETAIL

SCALE: N.T.S.

DIMENSION TABLE							
PIPE	Α	В	С	D	Е	-	
SIZE	_ ^	D		D	MIN.	MAX.	
2 1/2"	2 1/2"	3 1/2"	9"	1 1/2"	8"	13"	
3"	2 1/2"	3 3/4"	9"	1 1/2"	8 1/4"	13 1/4"	
3 1/2"	2 1/2"	4"	9"	1 1/2"	8 1/2"	13 1/2"	
4"	3 "	4 1/4"	9"	2 1/2"	9 1/4"	14"	
5"	3"	4 7/8"	9"	2 1/2"	10"	14 3/4"	
6"	3"	5 1/2"	9"	2 1/2"	10 1/2"	15 1/4"	
8"	3"	6 7/8"	9"	2 1/2"	11 3/4"	16 1/2"	
10"	3"	8 1/2"	9"	2 1/2"	13 1/2"	18 1/4"	
12"	3"	9 15/16"	9"	2 1/2"	15"	19 3/4"	
14"	4"	10 15/16"	11"	3"	16 1/4"	20 3/4"	
16"	4"	12 3/8"	11"	3"	17 1/2"	22 1/4"	
18"	6"	13 7/8"	13 1/2"	3 1/2"	19 1/2"	24"	
20"	6"	15 3/8"	13 1/2"	3 1/2"	21"	25 1/2"	
24"	6"	17 15/16"	13 1/2"	4"	23 3/4"	28 1/4"	
30"	6"	21 5/16"	13 1/2"	4"	27"	31 1/2"	
32"	6"	22 1/2"	13 1/2"	4"	28 1/4"	32 3/4"	
36"	6"	24 1/2"	13 1/2"	4"	30 1/4"	34 3/4"	

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No.	REVISIONS	DATE	BY	

OCT. 2017

Kimley » Horn

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KHA PROJECT 144957012 DATE MARCH 2018 SCALE AS SHOWN ESIGNED BY TCJ DRAWN BY PALM BEACH COUNTY

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WELLINGTON REGIONAL HOSPITAL WATER SERVICE MODIFICATIONS

PREPARED FOR WELLINGTON REGIONAL HOSPITAL

THOMAS C. JENSEN FLORIDA LICENSE NUMBER 37290

FLORIDA DATE:

LICENSED PROFESSIONAL

STANDARD DETAILS AND NOTES

SHEET NUMBER

D-02