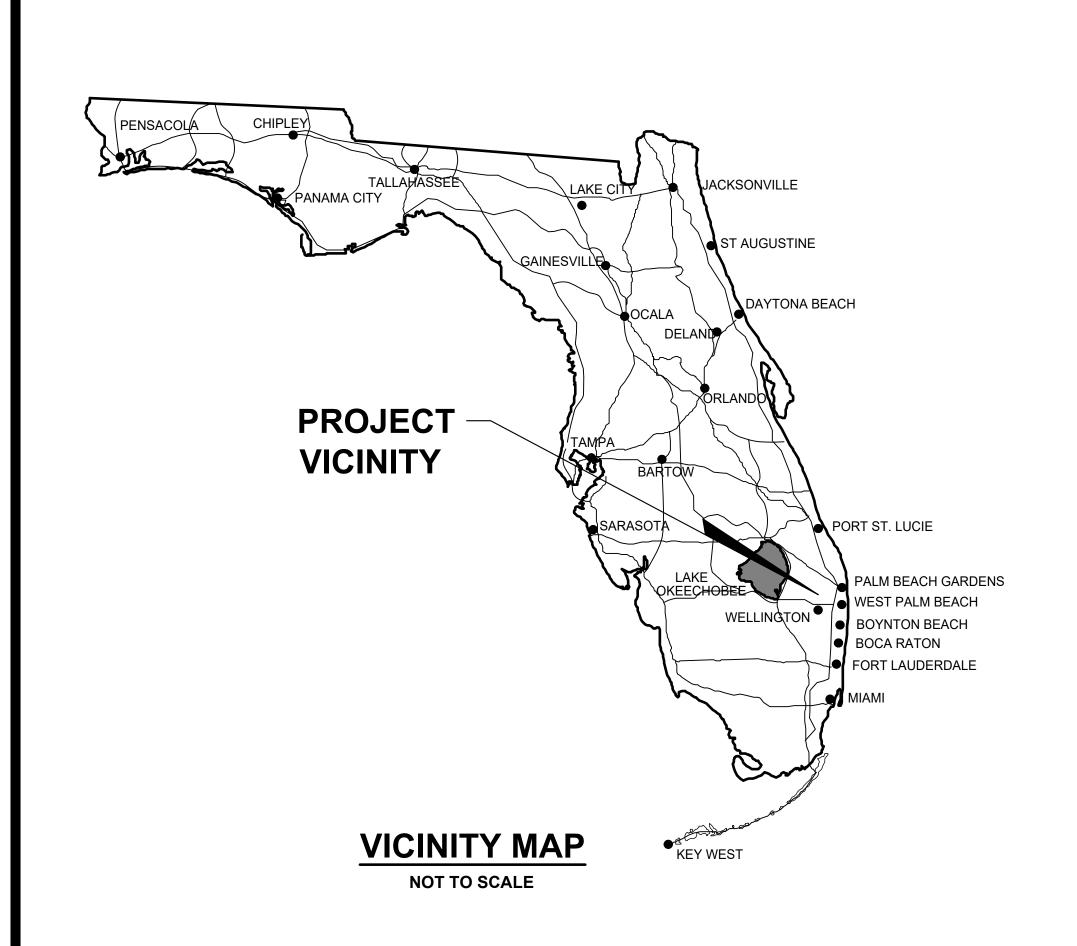
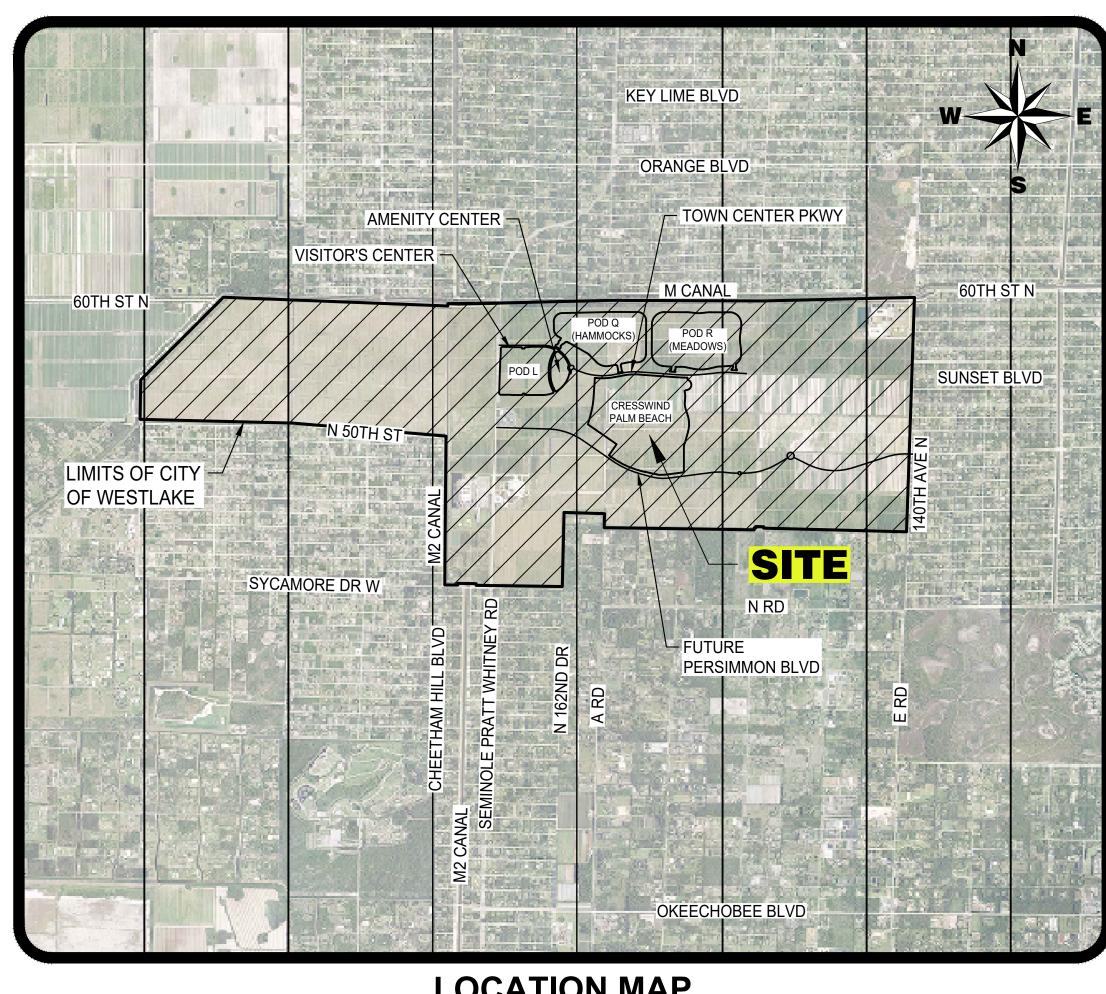
WATER AND WASTEWATER PLANS FOR CRESSWIND PALM BEACH CLUBHOUSE

SECTION 01 & 12, TOWNSHIP 43S., RANGE 40E. SECTION 06 & 07, TOWNSHIP 43S., RANGE 41E. CITY OF WESTLAKE, FLORIDA





LOCATION MAP

NOT TO SCALE

REVISIONS

INDEX OF SHEETS

SHEET NO.:	DESCRIPTION		
1	TITLE SHEET		
2	MASTER PLAI		

WATER AND WASTEWATER PLANS

SANITARY SEWER PROFILES

5-9 WATER AND WASTEWATER DETAILS

6/16/2020

WATER AND WASTEWATER PLANS

DRAWING NO.

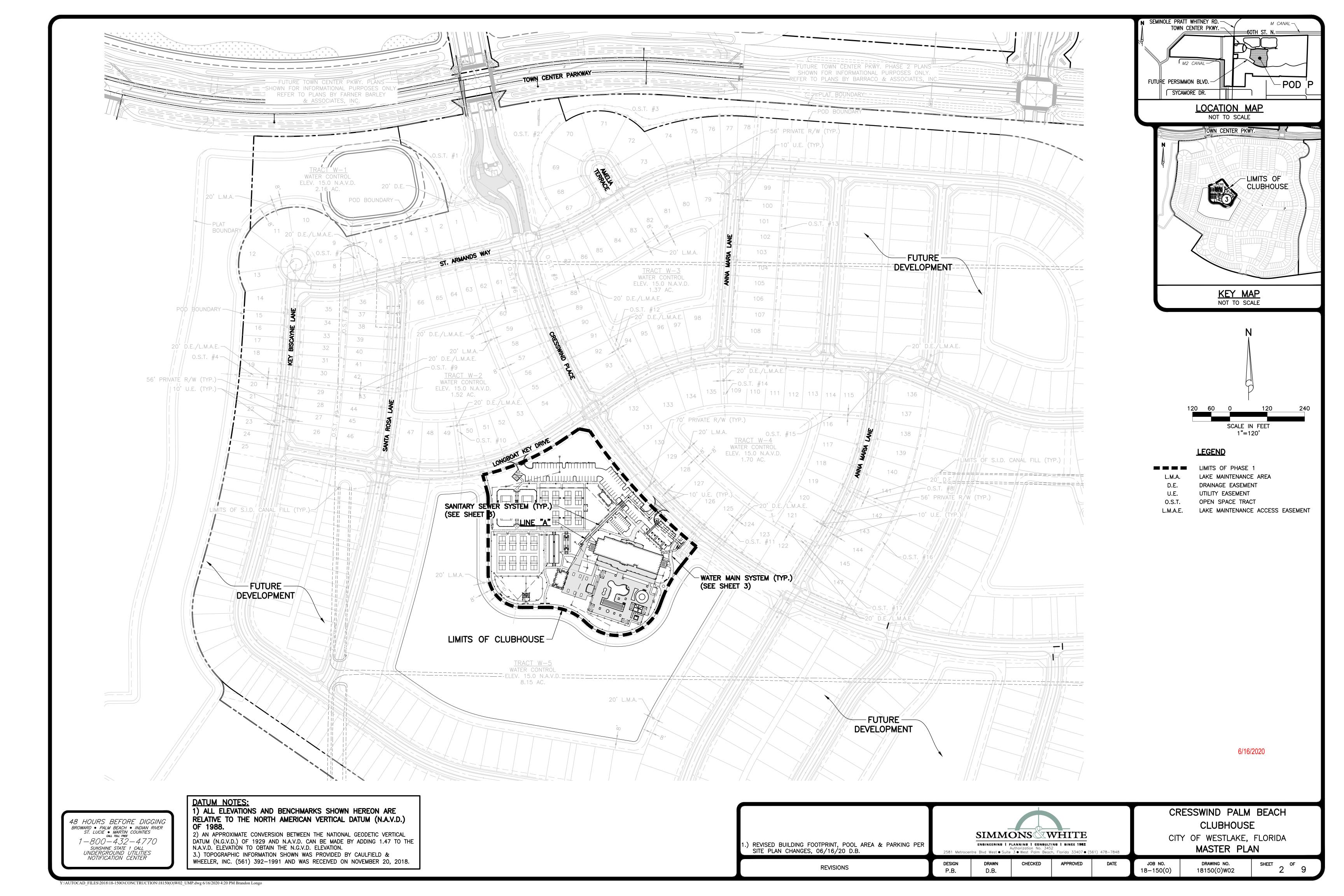
18150(0)W01

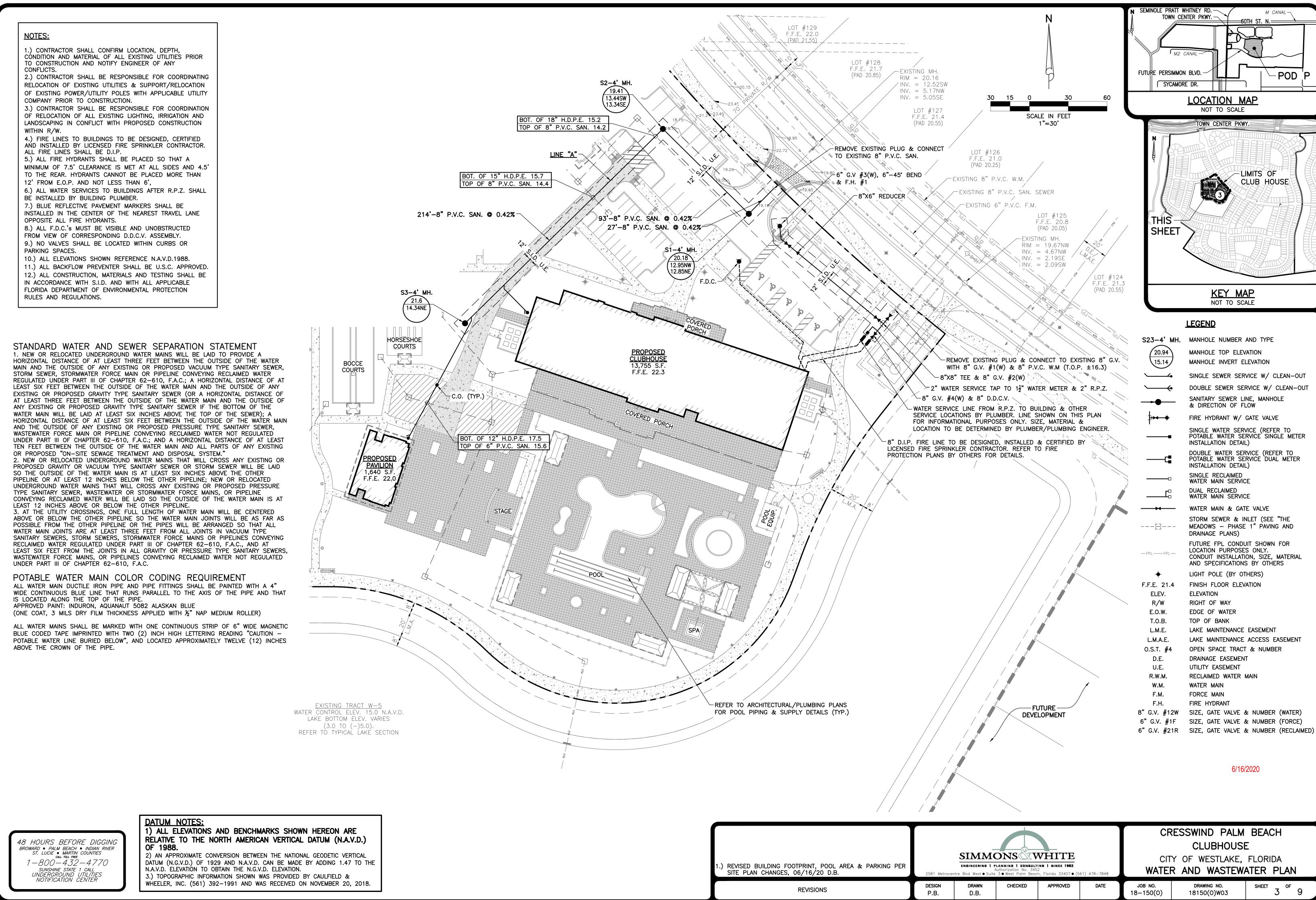
18-150(0)

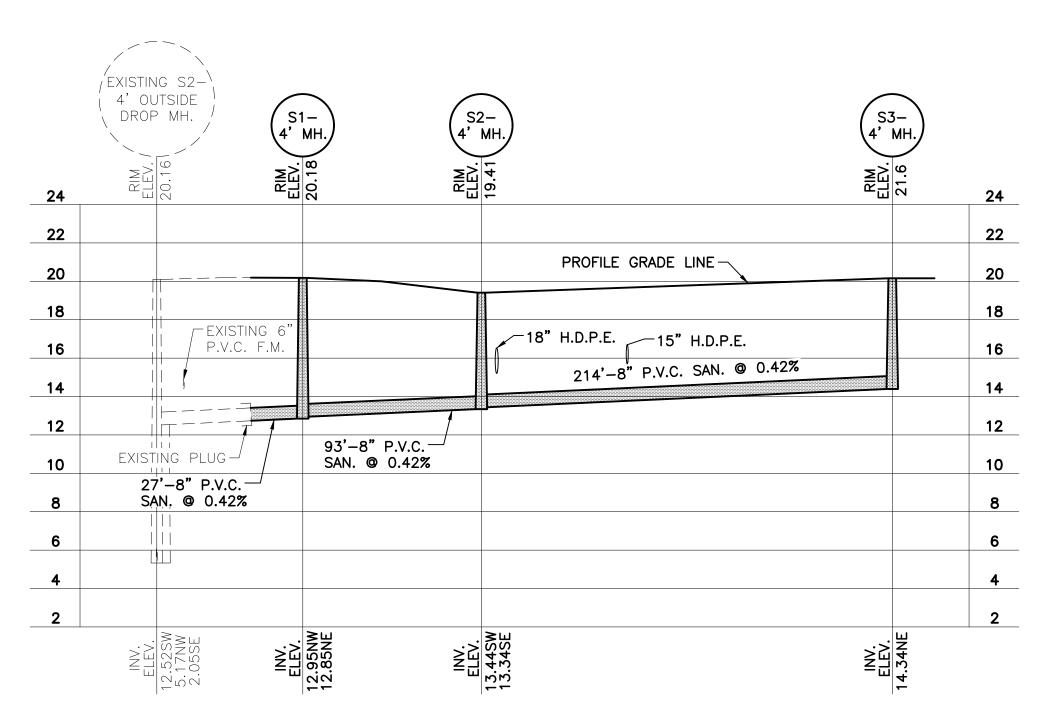
CRESSWIND PALM BEACH **CLUBHOUSE** SIMMONS
WHITE CITY OF WESTLAKE, FLORIDA TITLE SHEET

P.B.

D.B.



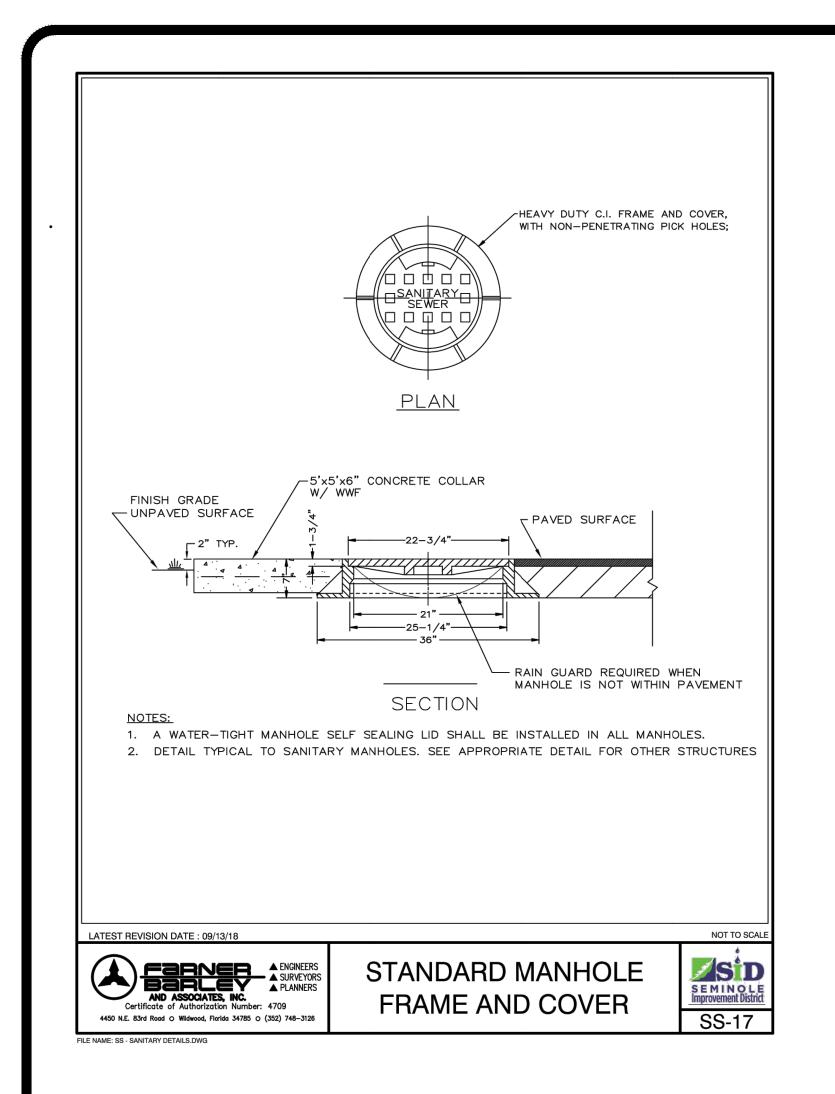


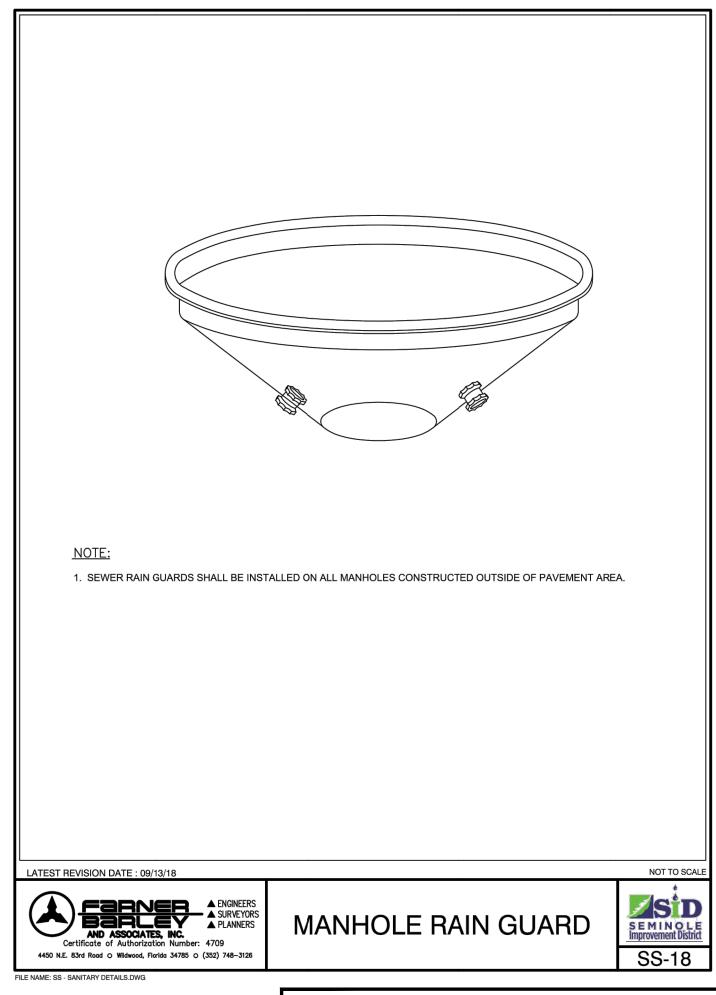


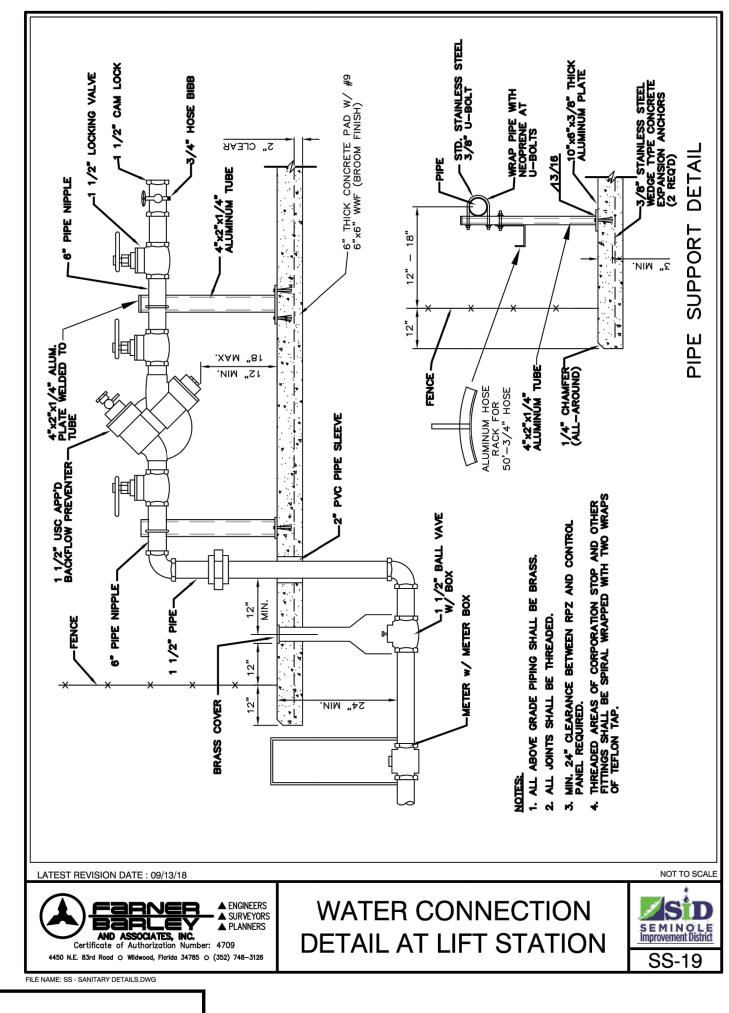
LINE "A"

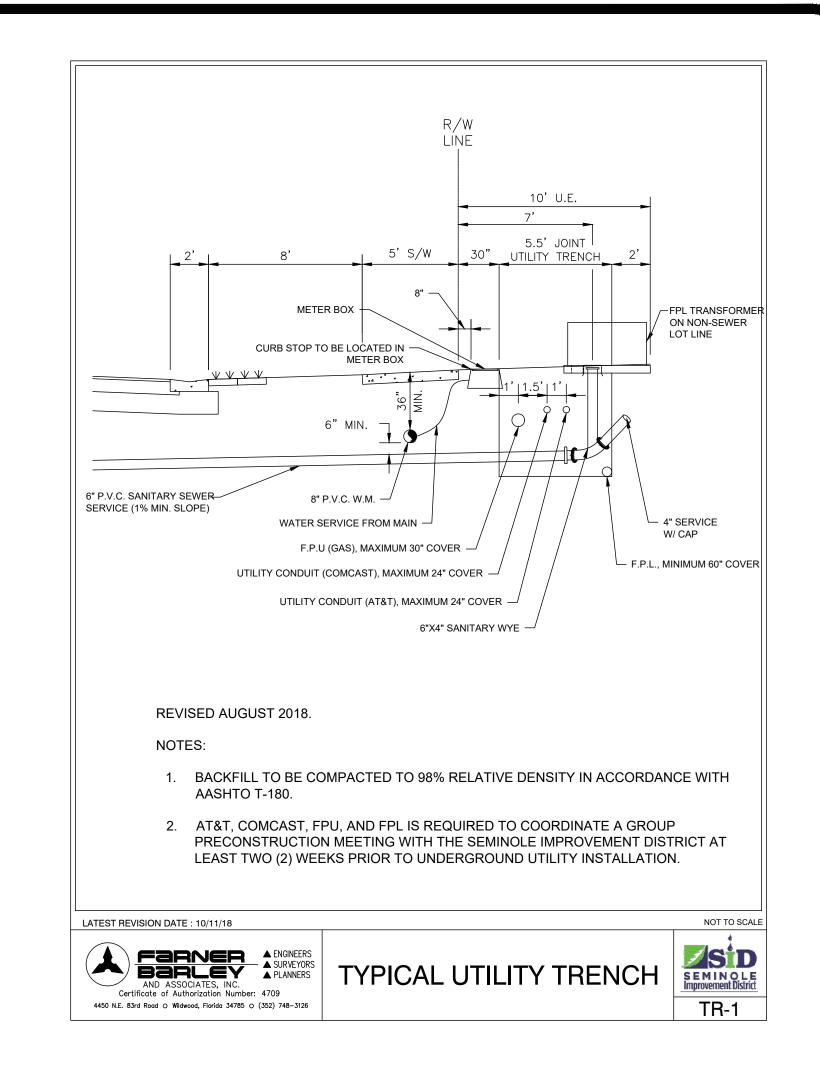
SCALE: 1"=50' (HORIZ.)

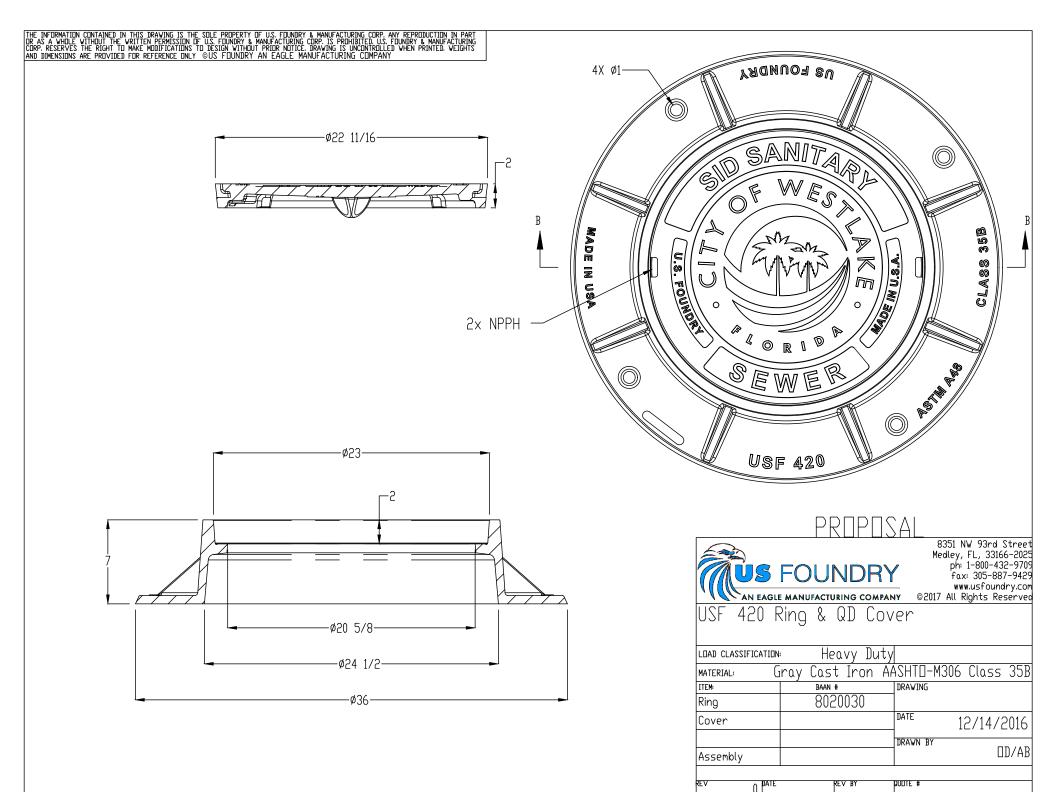
1"=5' (VERT.)



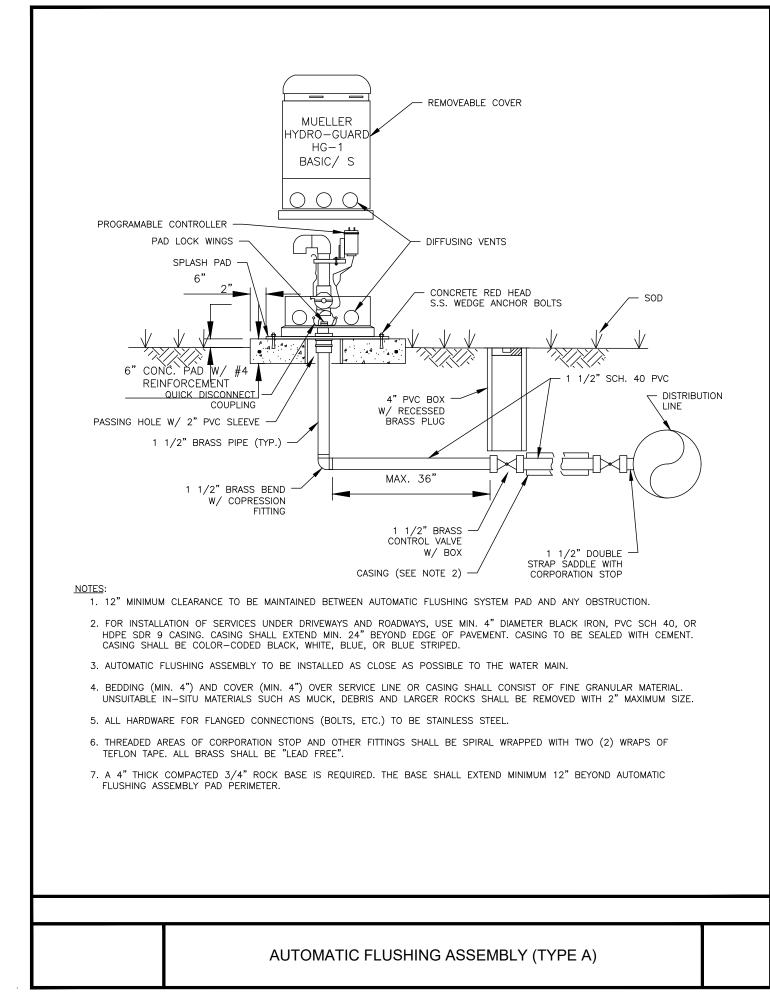




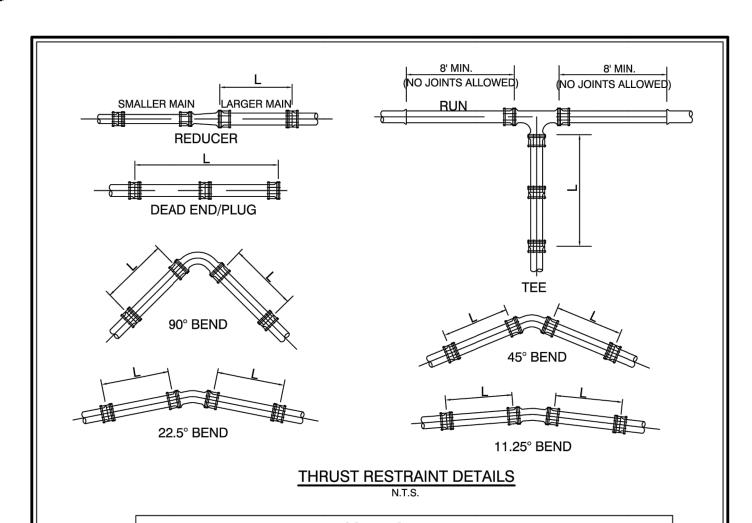












FITTINGS (LENGTH IN FEET)							
(3-FT. COVER: 200 PSI TEST PRESSURE)							
PIPE SIZE	90° BEND	45° BEND	22.5 BEND	11.25 BEND	DEAD END & PLUG	DESIGN PRESSURE PSI.	
(INCHES)	P.V.C. (L)	P.V.C. (L)	P.V.C. (L)	P.V.C. (L)	P.V.C. (L)	P.V.C. (L)	
4	40'	20'	20'	20'	40'	150	
6	60'	40'	20'	20'	60'	150	
8	80'	40'	20'	20'	80'	150	
10	80'	40'	20'	20'	80'	150	
12	100'	40'	20'	20'	100'	150	

NOTE: PROVIDE RESTRAINED JOINTS AT CHANGES IN DIRECTION OF ALL WATER MAINS. RESTRAIN ALL PIPE JOINTS WITHIN THE DISTANCES SHOWN IN THE FOLLOWING TABLE. DISTANCES APPLY TO LENGTHS OF PIPE ON EACH SIDE OF THE FITTING. TEES AND DEAD ENDS VALVED OR CAPPED ARE CONSIDERED EQUIVALENT TO 90 DEG. BENDS. (LENGTHS ARE BASED ON SOIL OF "TYPE 2 CLAY" BACKFILL AND UP TO 200 PSI TEST PRESSURE.) JOINT RESTRAINTS SHALL BE MEGA-LUG.

4450 N.E. 83rd Road O Wildwood, Florida 34785 O (352) 748-3126

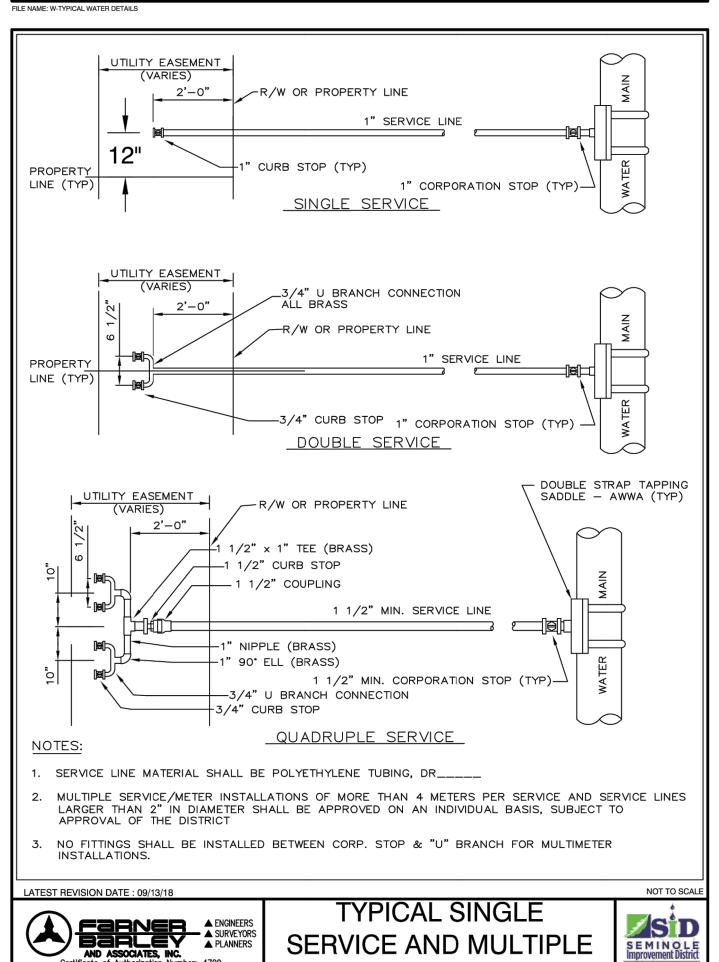
PARVER A ENGINEERS SURVEYORS PLANNERS AND ASSOCIATES, INC.
Certificate of Authorization Number: 4709

PIPE JOINT THRUS RESTRAINT DETAIL (2 OF 2

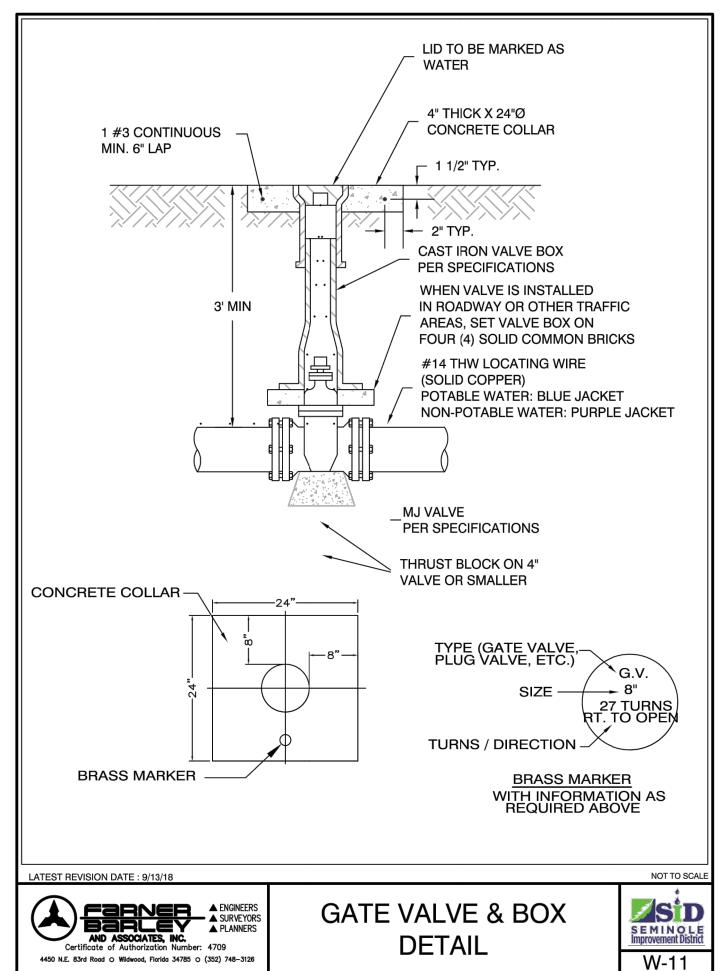


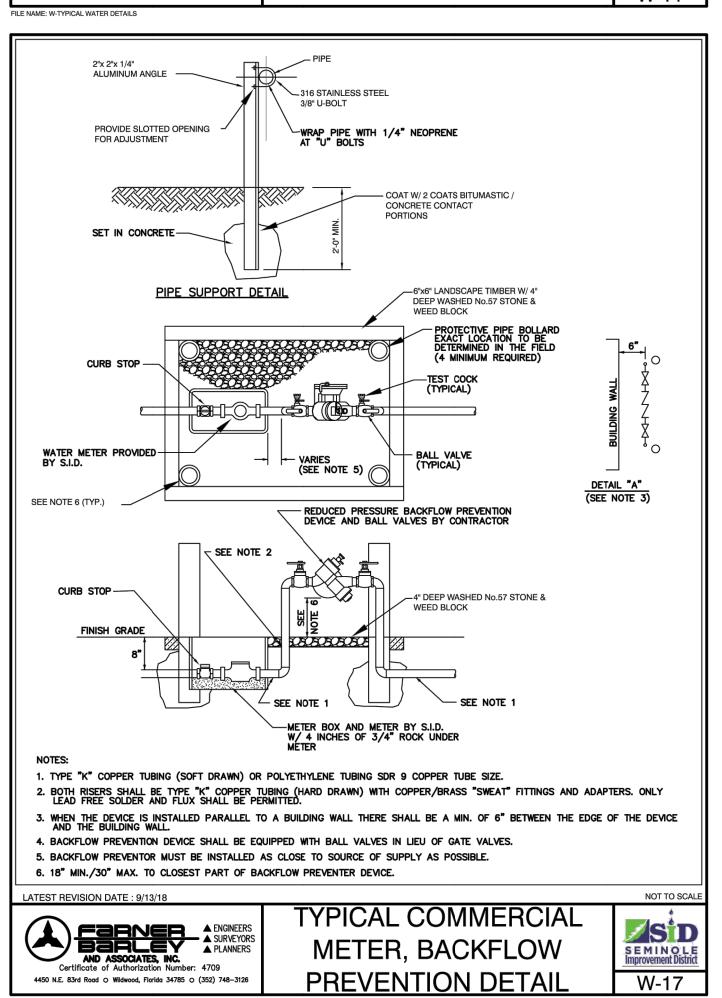
W-16

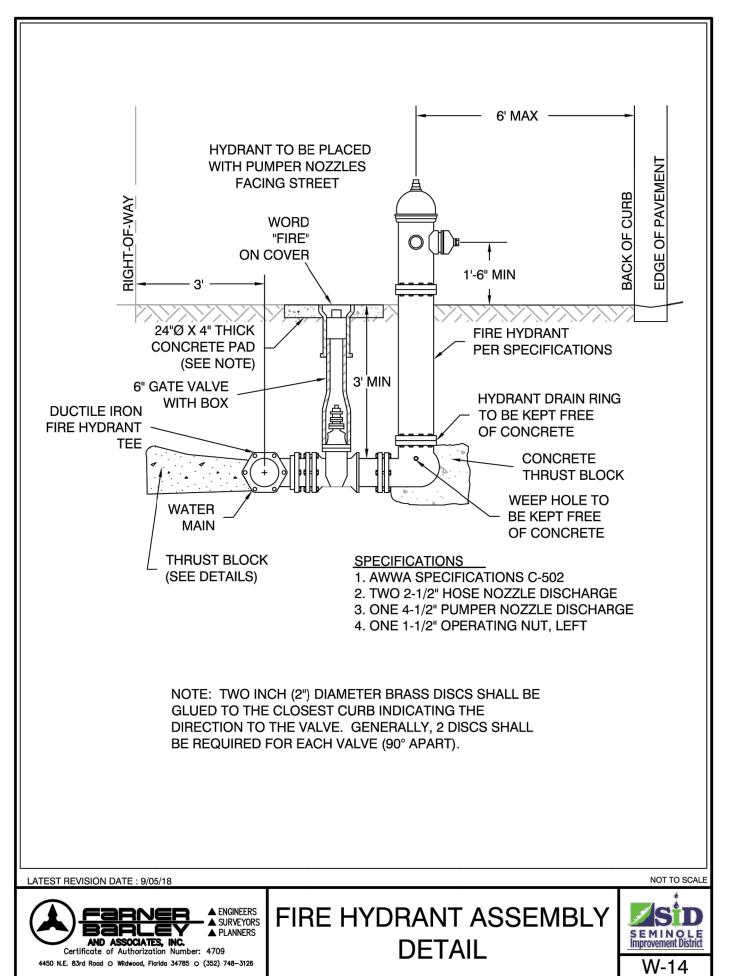
W-10

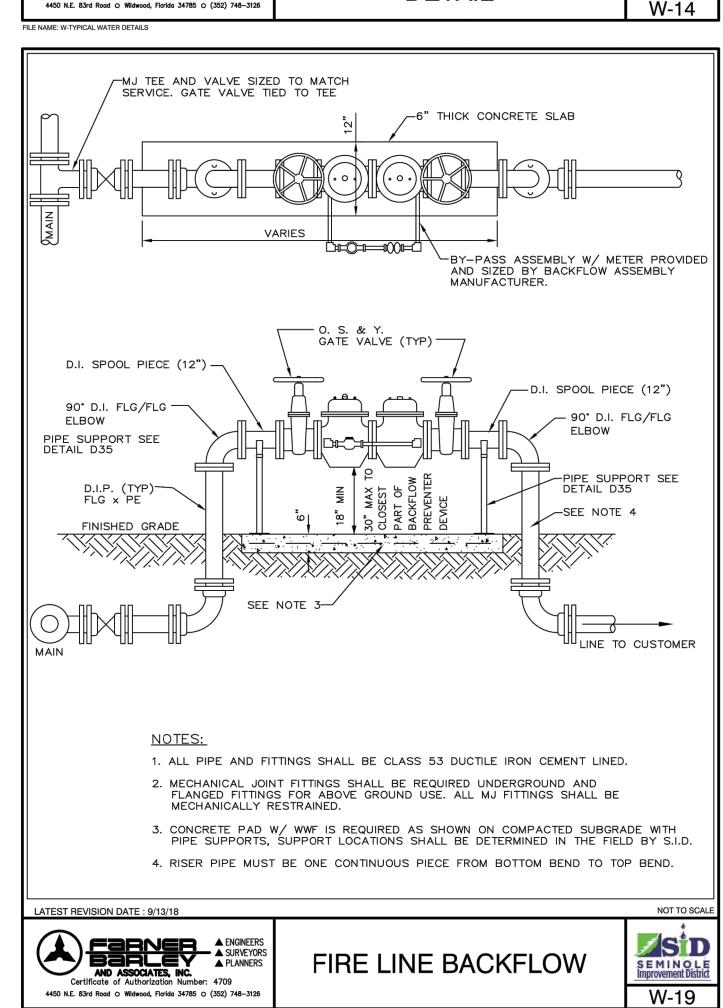


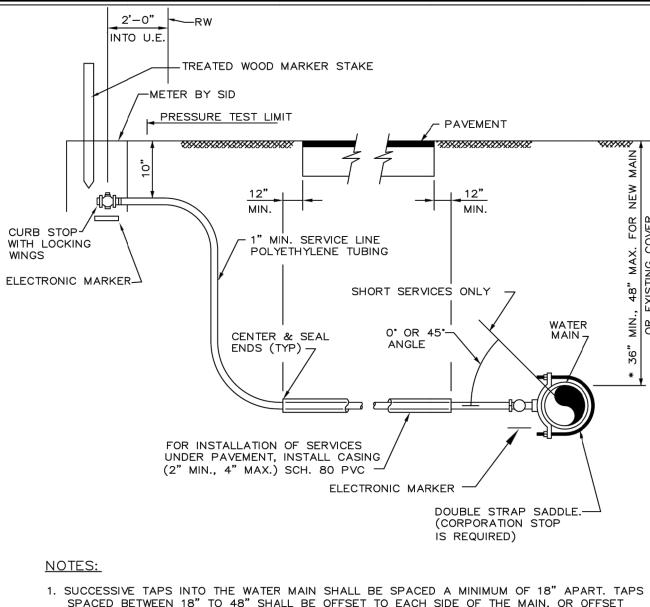
SERVICES











- SPACED BETWEEN 18" TO 48" SHALL BE OFFSET TO EACH SIDE OF THE MAIN, OR OFFSET
- 2. METER BOX SHALL BE SET TO CONFORM TO FINISHED GRADE ADJACENT TO PROPERTY LINE. METER BOX SHALL NOT BE PLACED IN SIDEWALK OR DRIVEWAY AREAS. SERVICE LINES SHALL NOT BE PLACED UNDER DRIVEWAYS.
- 3. TUBING SHALL BE POLYETHYLENE, DR 9
- 4. ALL 5/8" & 1" METERS REQUIRE A 1" LOCKING METER VALVE RESPECTIVELY
- 5. MAXIMUM SERVICE LENGTH IS 100' TO METER.
- 6. METER SHALL BE TOUCH READ. ALL COMPONENT PARTS FOR CONVERSION TO RADIO READ SHALL ALSO BE SUPPLIED AND INSTALLED, WHERE APPLICABLE
- 7. ELECTRONIC MARKERS SHALL BE SCOTCHMARK ELECTRONIC MARKER No. 1253 (BLUE)
- 8. METER BOX SHALL BE BROOKS PRODUCTS, 38—H UP TO 1 1/2" METER AND 66—H UP TO 3" METER. METER BOXES SHALL BE PROVIDED AND INSTALLED BY THE CONTRACTOR.



4450 N.E. 83rd Road O Wildwood, Florida 34785 O (352) 748-3126

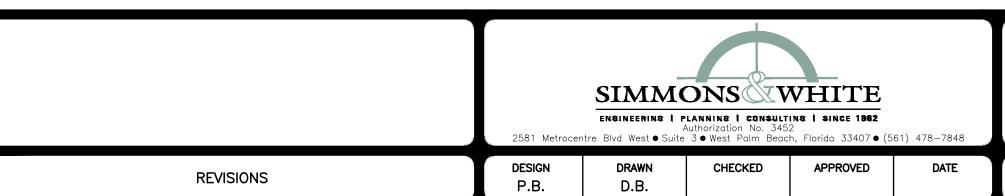
TYPICAL SERVICE CONNECTION FOR 5/8", 1", OR 2" METER

SiD SEMINOLE Improvement District W-15

NOT TO SCAL

FILE NAME: W-TYPICAL WATER DETAILS

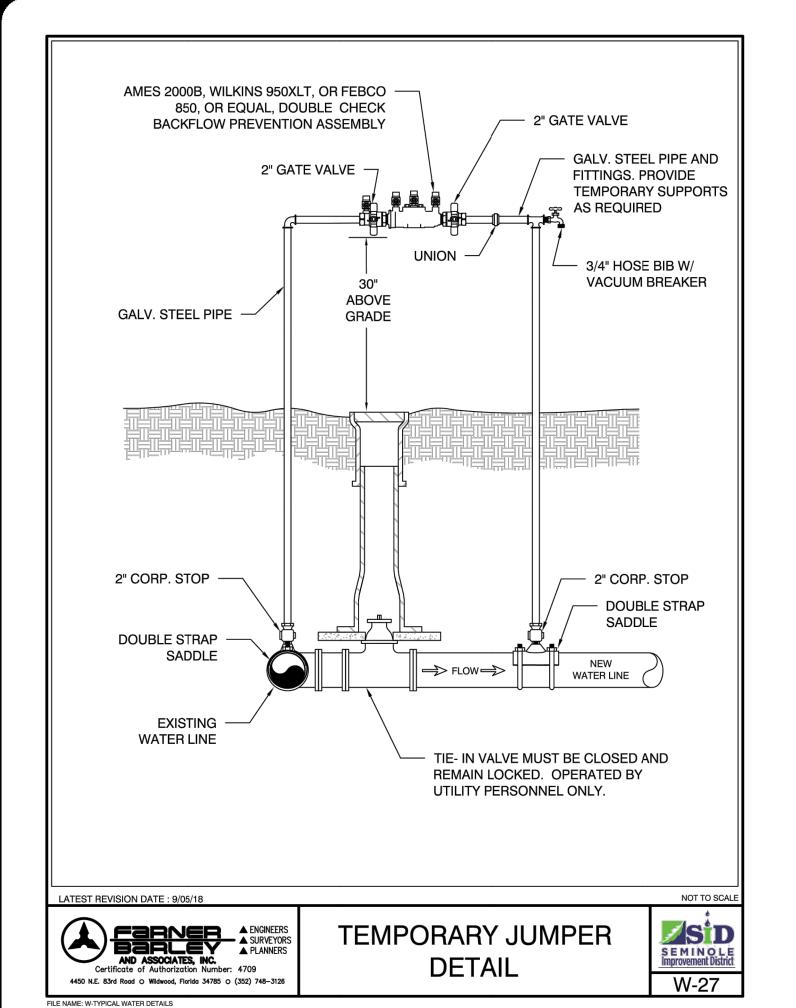
6/16/2020

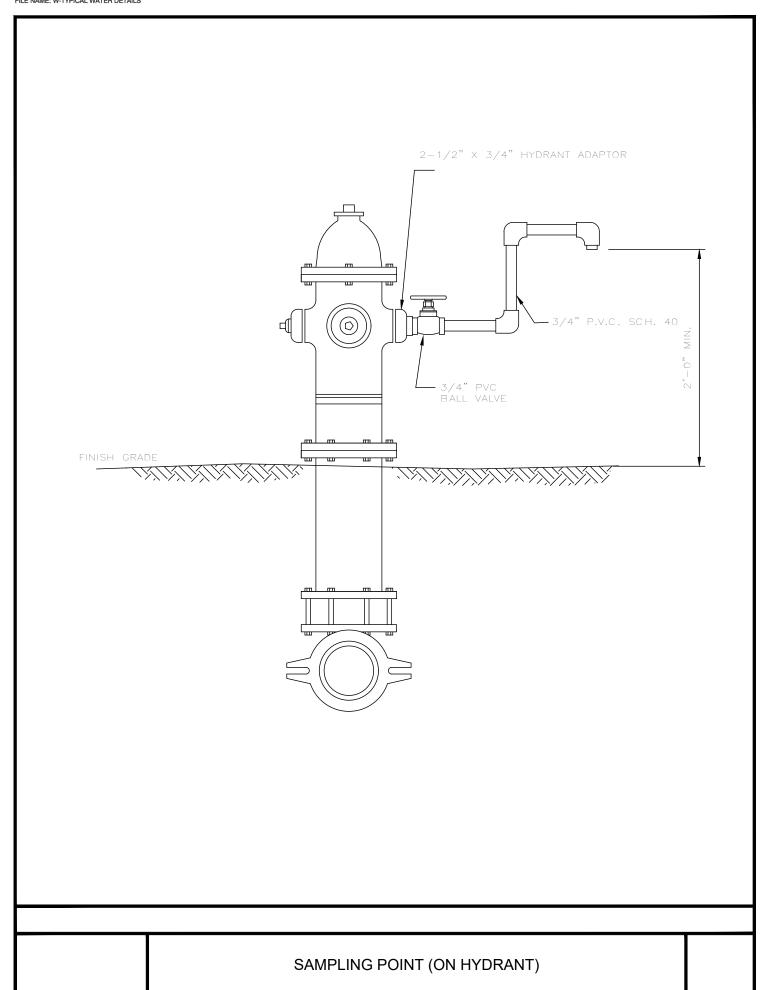


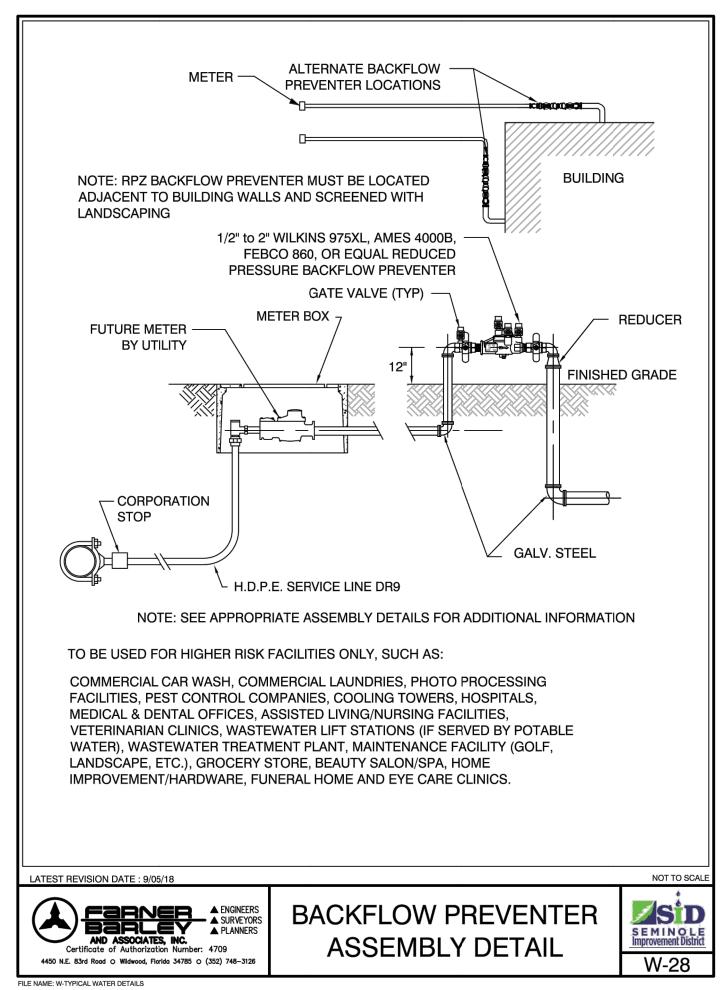
CRESSWIND PALM BEACH **CLUBHOUSE** CITY OF WESTLAKE, FLORIDA WATER AND WASTEWATER DETAILS DRAWING NO. SHEET

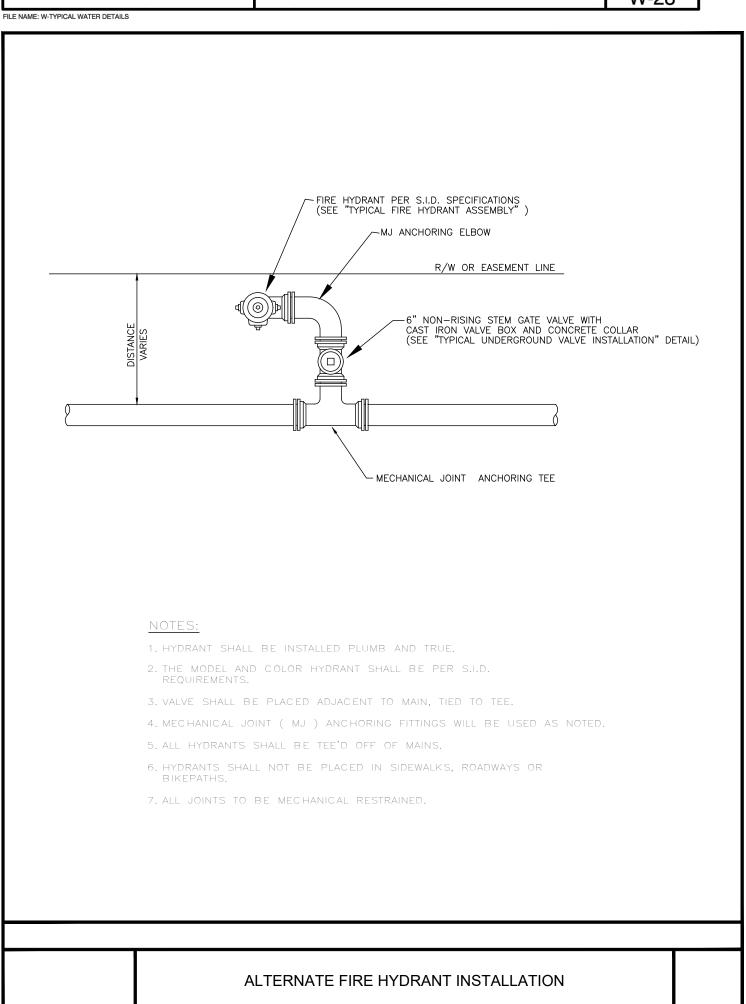
18150(0)W06

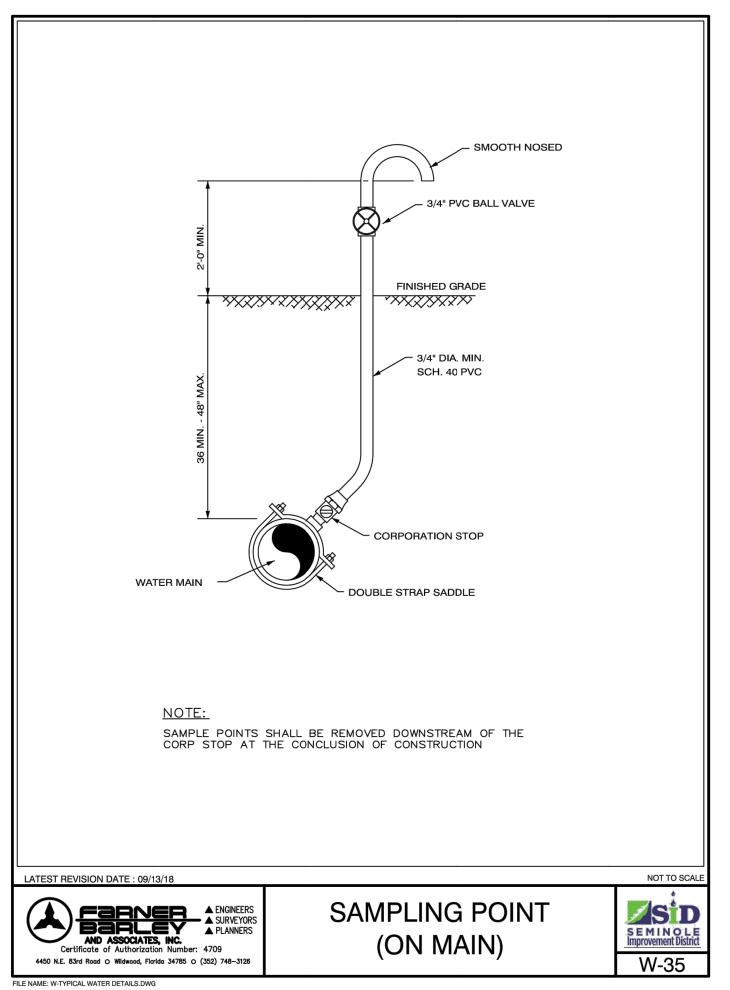
18-150(0)

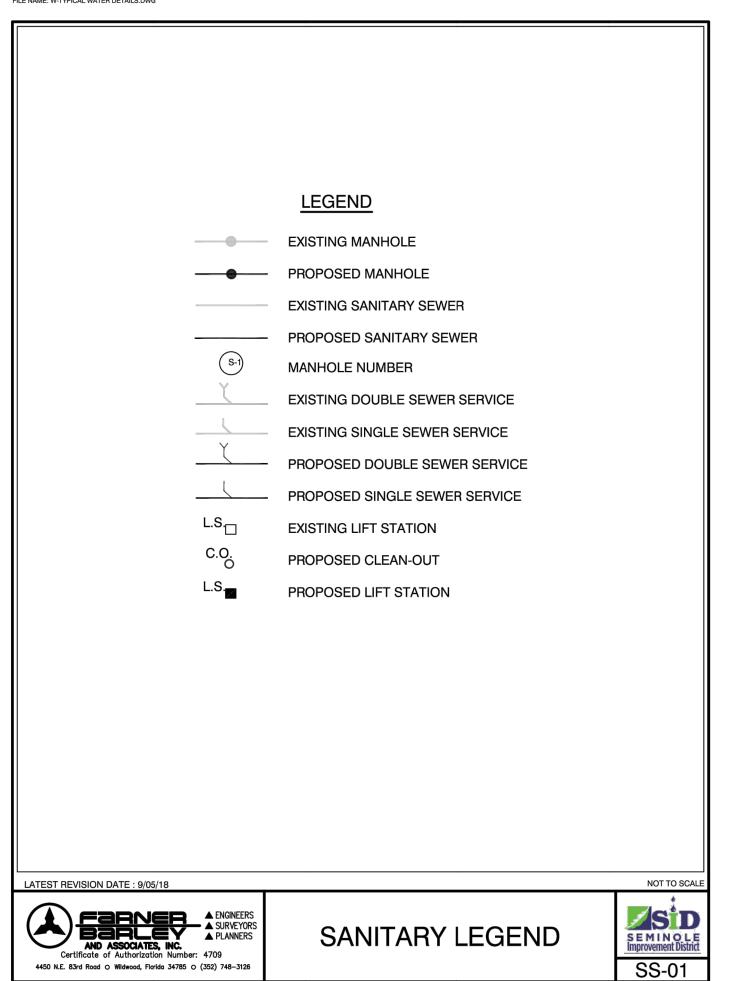


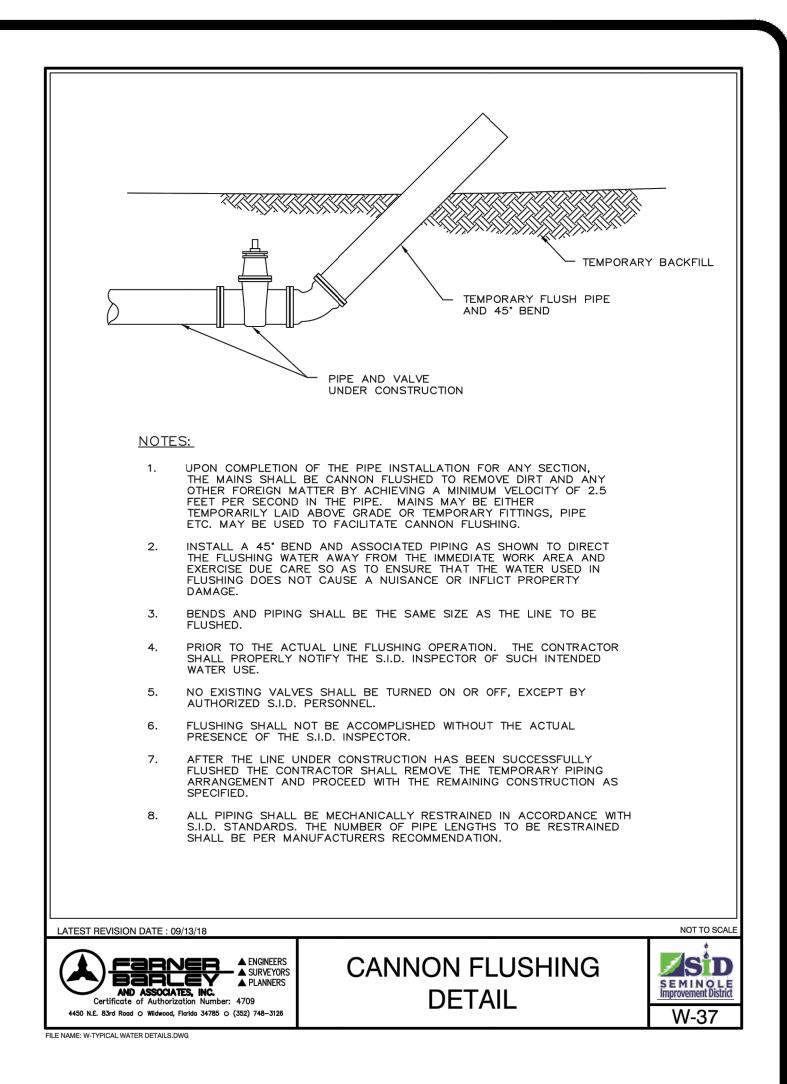


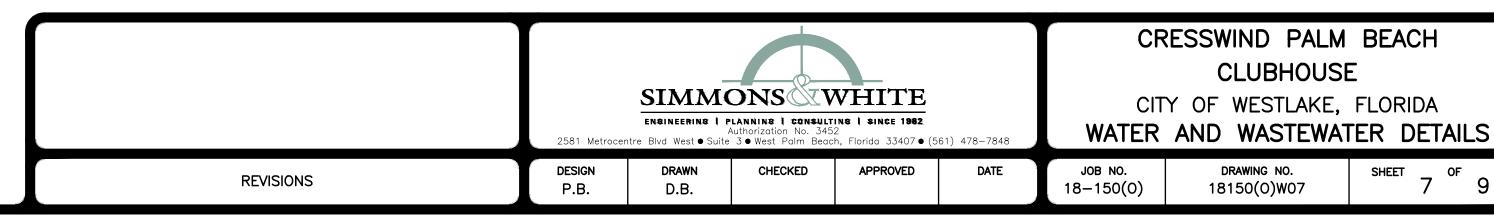


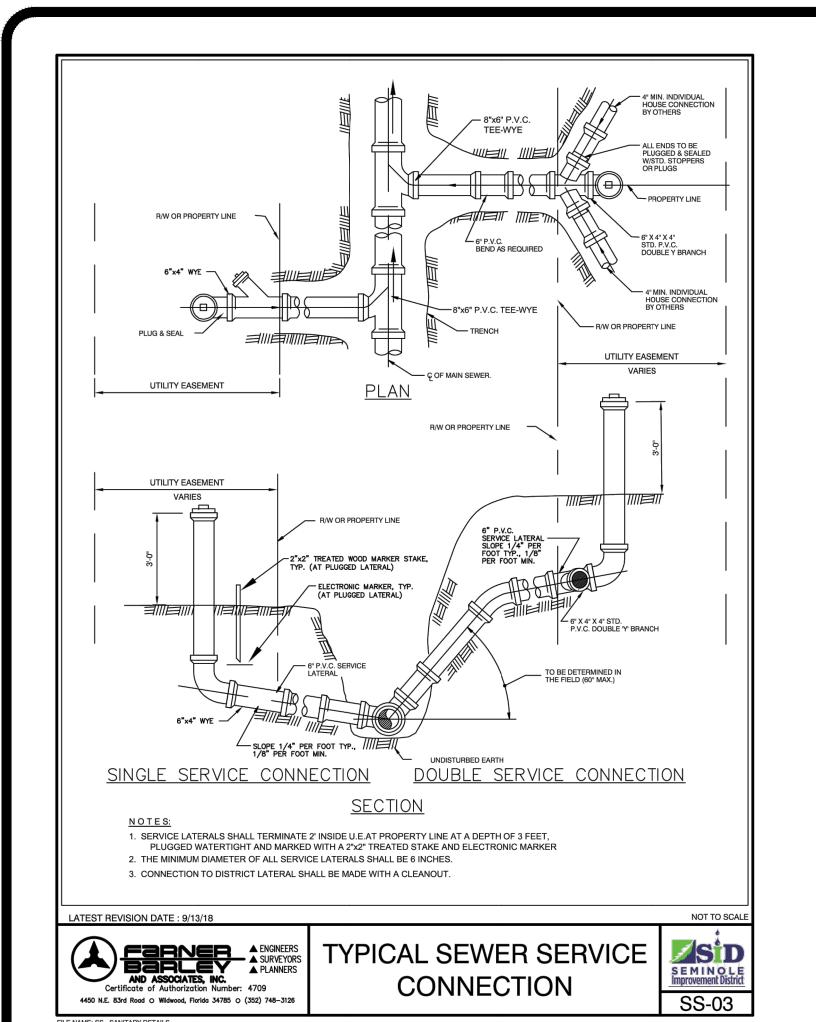


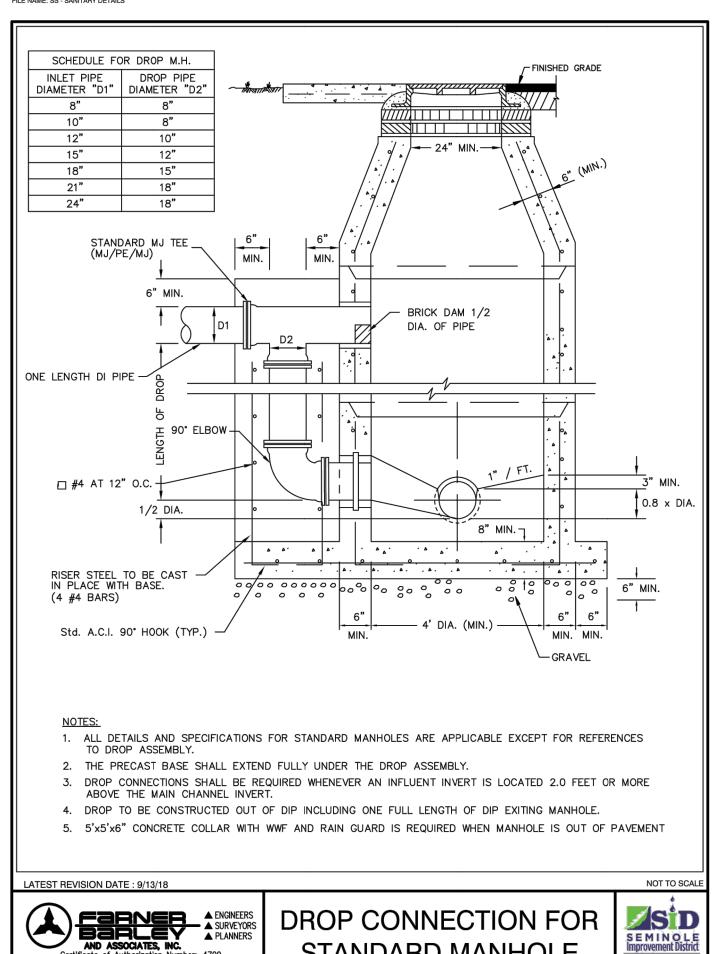






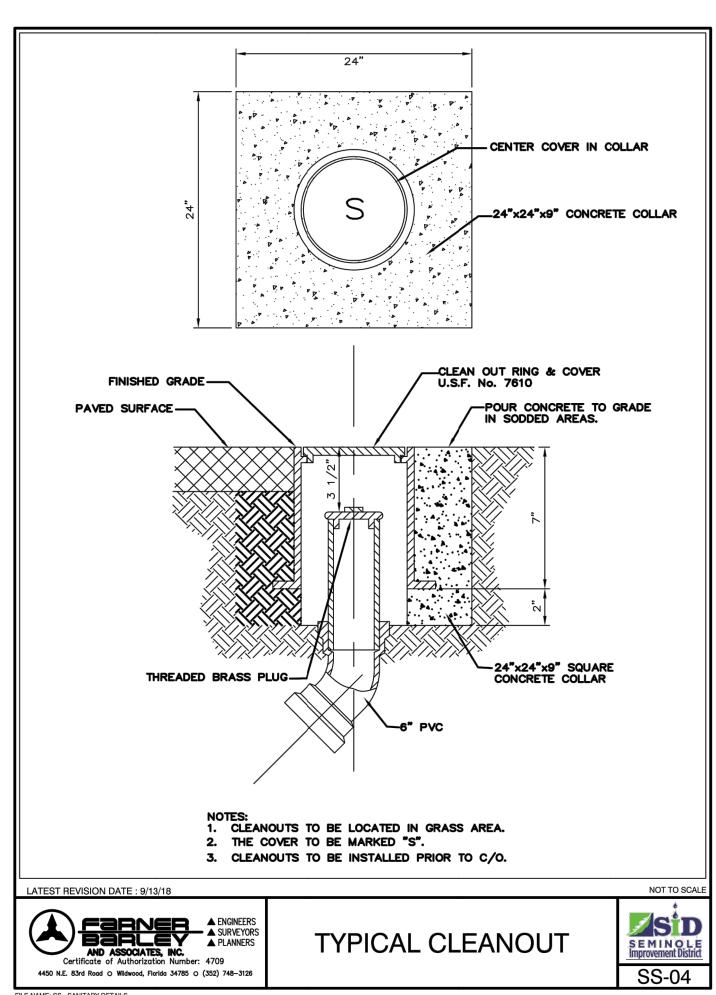


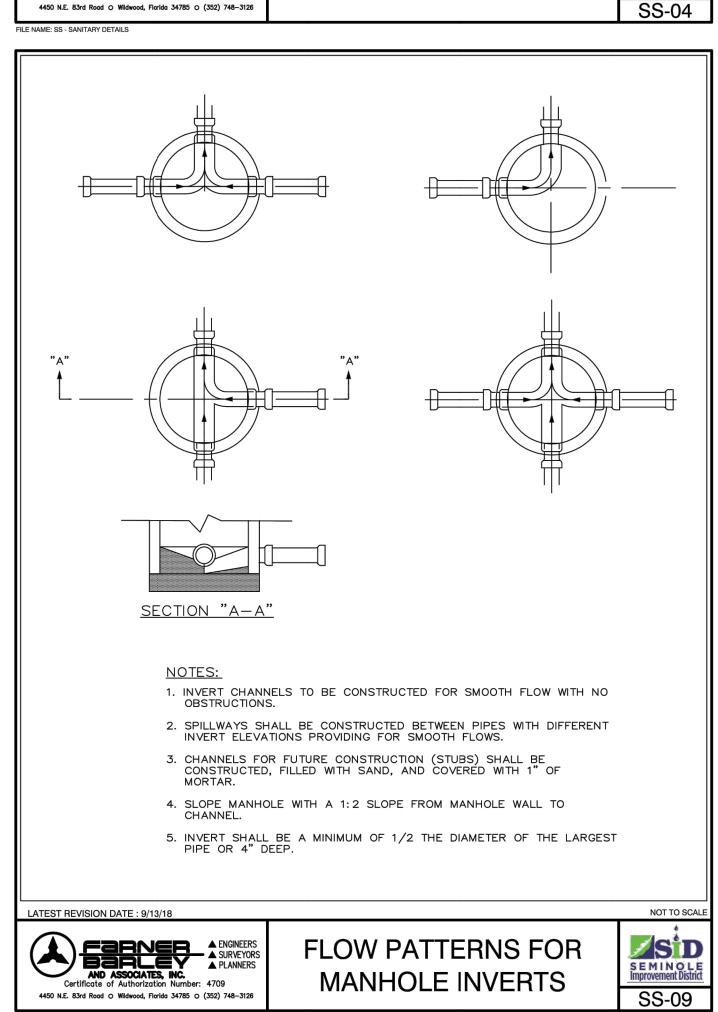


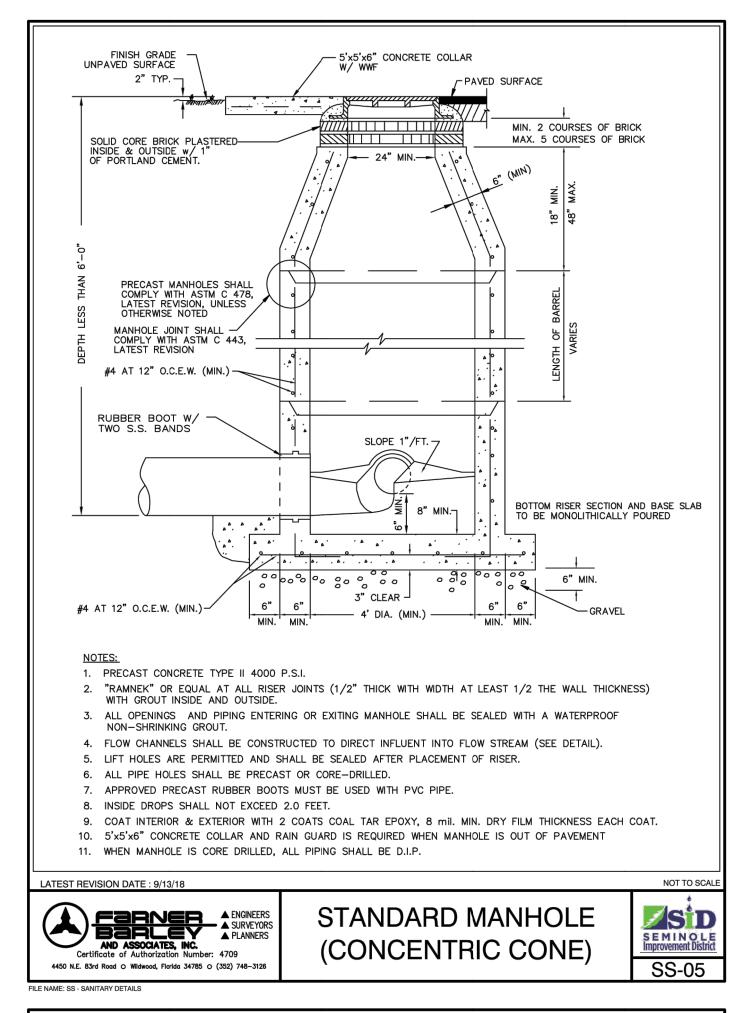


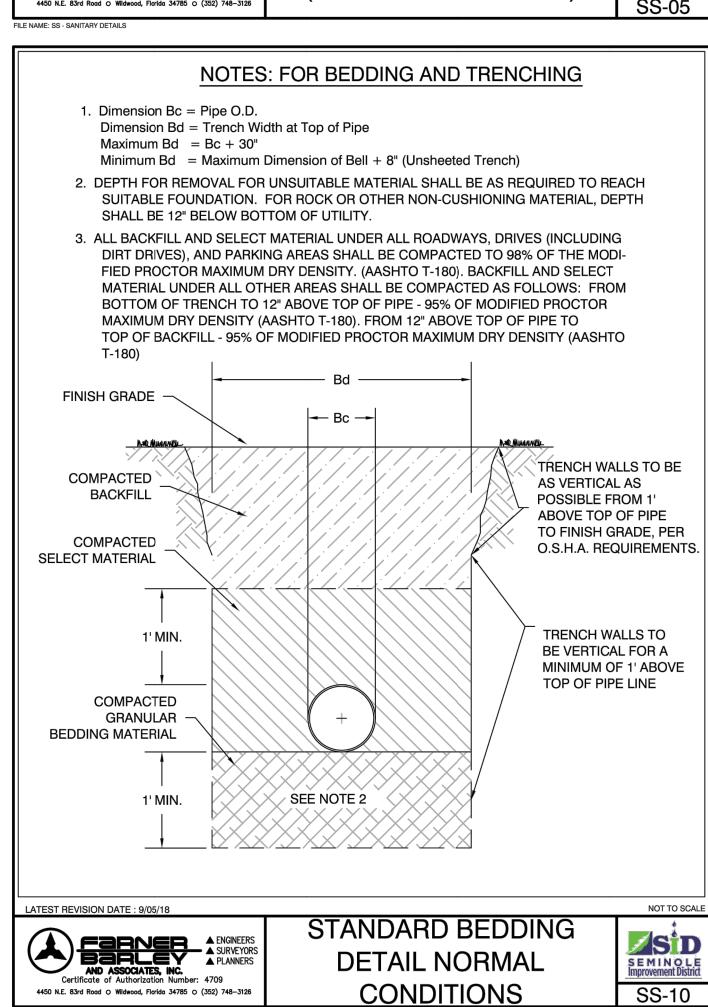
STANDARD MANHOLE

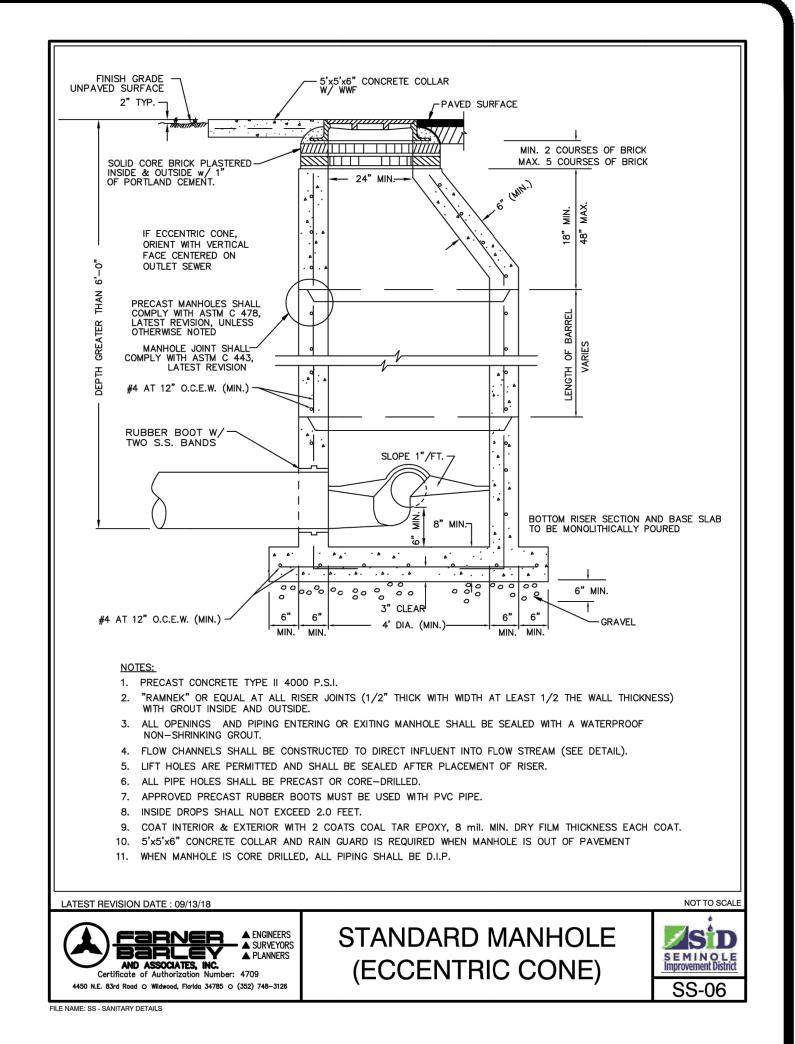
SS-08

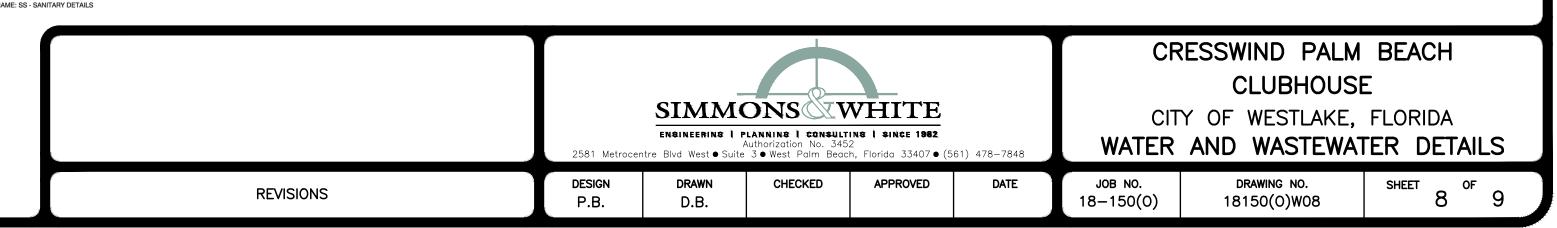


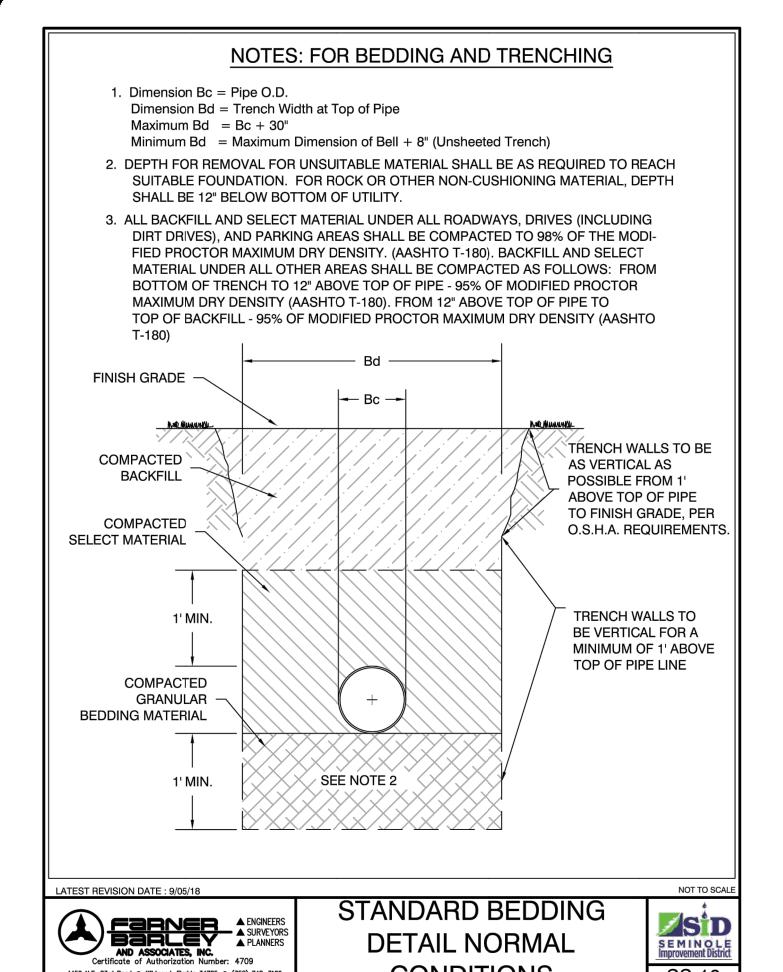


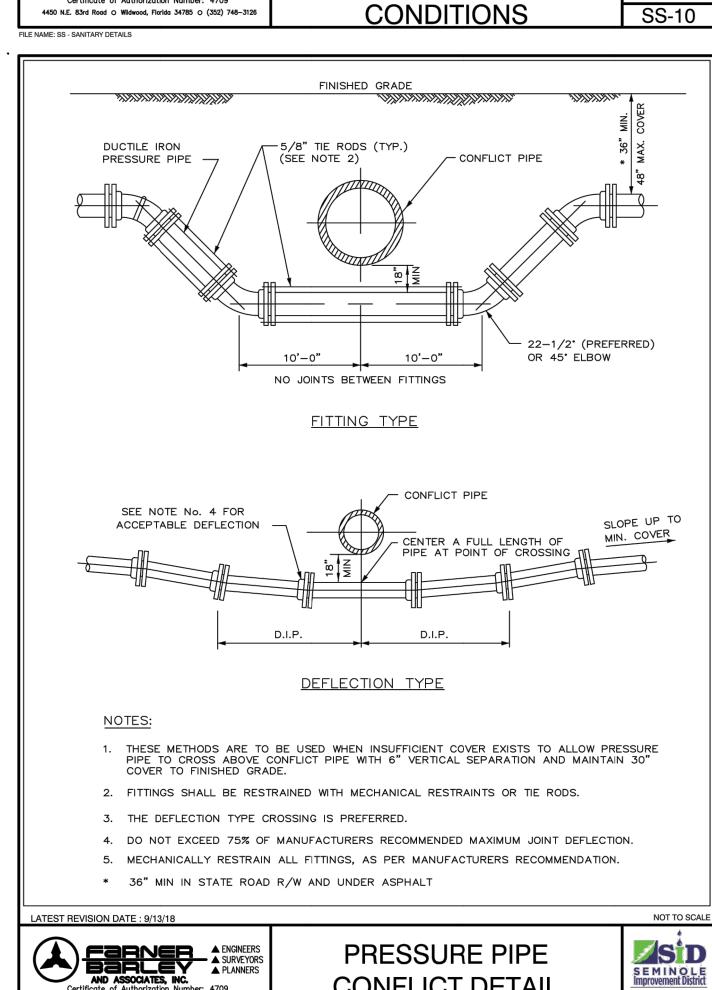












CONFLICT DETAIL

W-05

GENERAL WATER NOTES

1. WATER SYSTEM COMPONENTS SHALL BE INSTALLED IN STRICT ACCORDANCE WITH ALL LOCAL CODES AND REGULATIONS, TESTED, CLEANED, DISINFECTED AND BACTERIOLOGICALLY CLEARED FOR SERVICE IN ACCORDANCE WITH THE LATEST AWWA STANDARDS AND CHAPTER 62-555, FLORIDA ADMINISTRATIVE CODE.

2. ALL PIPE SHALL BEAR THE "NSF" SEAL FOR POTABLE WATER.

3. WATER MAINS SHALL BE BLUE PVC CONFORMING TO AWWA C-900, DR 18. ALL COUPLINGS, CLEANING COMPOUNDS, SOLVENTS, LUBRICANTS, AND PIPE PREPARATION FOR LAYING, SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S LATEST RECOMMENDATIONS.

4. DEPTH OF WATER LINES FROM CROWN OF PIPE TO FINISHED GRADE SHALL BE 36".

5. WATER MAINS TO BE LOCATED 3' FROM RIGHT OF WAY, UNLESS OTHERWISE NOTED.

6. WHEN POOL EQUIPMENT IS TO BE INSTALLED AN AIR-GAP OF 3" MINIMUM SHALL BE MAINTAINED BETWEEN EQUIPMENT AND WATER AND SANITARY SYSTEMS.

7. ALL POTABLE WATER MAINS THAT ARE NOT BLUE PVC SHALL BE INSTALLED WITH IDENTIFIER TAPE LOCATED ON TOP OF PIPE & SECURED TAPE SHALL BE 3" VINYL BLUE IN COLOR WITH LETTERING INDICATING "POTABLE WATER" AT TWO FOOT INTERVALS ALONG TAPE.

GENERAL REUSE AND NON-POTABLE IRRIGATION NOTES

1. ALL REUSE AND NON-POTABLE IRRIGATION PIPING TO BE A SOLID PURPLE COLOR.

2. REUSE MAINS SHALL BE PVC CONFORMING TO AWWA C-900, DR 18. ALL COUPLINGS, CLEANING COMPOUNDS, SOLVENTS, LUBRICANTS, AND PIPE PREPARATION, FOR LAYING, SHALL BE IN ACCORDANCE WITH THE PIPE MANUFACTURER'S LATEST RECOMMENDATIONS.

3. DEPTH OF REUSE AND NON-POTABLE IRRIGATION LINES TO BE 48" BELOW FINISHED GRADE.

4. ALL REUSE AND NON-POTABLE IRRIGATION MAINS THAT ARE NOT PURPLE PVC SHALL BE INSTALLED WITH IDENTIFIER TAPE LOCATED ON TOP OF PIPE & SECURED TAPE SHALL BE 3" VINYL PURPLE IN COLOR WITH LETTERING INDICATING "REUSE" OR "NON-POTABLE IRRIGATION" AT TWO FOOT INTERVALS ALONG TAPE.

ATEST REVISION DATE: 9/05/18 AD ASSOCIATES, INC.

Certificate of Authorization Number: 4709 4450 N.E. 83rd Road O Wildwood, Florida 34785 O (352) 748-3126

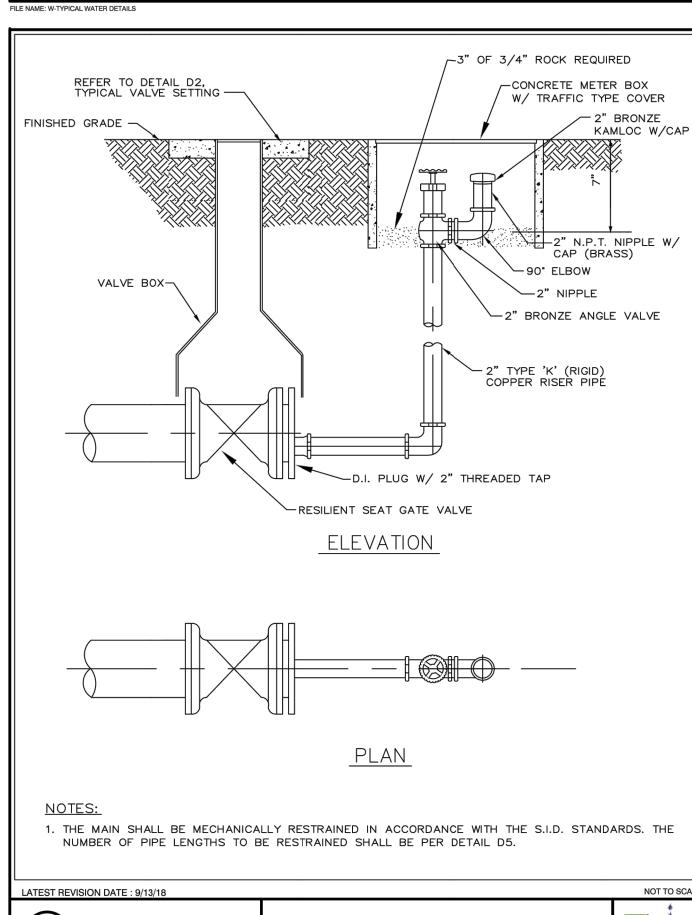
TYPICAL UTILITY NOTES (1 OF 3)

Sid SEMINOLE Improvement District W-02

SEMINOLE Improvement District

W-07

NOT TO SCAL



TYPICAL TERMINAL END

WITH 2" BLOWOFF

POTABLE WATER CLEARANCE REQUIREMENTS

HORIZONTAL SEPARATION: BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORMWATER FORCE MAIN, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS.

1. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST FIVE FEET BETWEEN THE OUTSIDE OF THE WATERMAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED STORM SEWER, STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

2. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE HORIZONTAL DISTANCE OF TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.

3. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED GRAVITY-OR PRESSURE-TYPE SANITARY SEWER. WASTEWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. THE MINIMUM HORIZONTAL SEPARATION DISTANCE BETWEEN WATER MAINS AND GRAVITY-TYPE SANITARY SEWERS SHALL BE REDUCED TO FIVE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST TWELVE INCHES ABOVE THE TOP OF THE SEWER.

4. NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST TEN FEET BETWEEN THE OUTSIDE OF THE WATER MAIN AND ALL PARTS OF ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.0065(2), F.S., AND RULE 64E-6002, F.A.C.

5. WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THE REQUIRED MINIMUM HORIZONTAL DISTANCE FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND JOINTS IN THE WATER MAIN ARE BEING LOCATED LESS THAN THE REQUIRED MINIMUM DISTANCE FROM JOINTS IN OTHER PIPELINE:

A. USE OF PRESSURE-RATED PIPE CONFORMING TO THE AMERICAN WATER WORKS ASSOCIATION STANDARDS INCORPORATED INTO RULE 62-555.330, F.A.C., FOR THE OTHER PIPELINE IF IT IS GRAVITY-OR VACUUM-TYPE PIPELINE:

B. USE WELDED, FUSED OR OTHERWISE RESTRAINED JOINTS FOR EITHER WATER MAIN OR THE OTHER PIPELINE; OR

C. USE OF WATERTIGHT CASING PIPE OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR EITHER THE WATER MAIN OR THE OTHER PIPELINE.

LATEST REVISION DATE: 9/05/18

FARNER A SURVEYORS PLANNERS 4450 N.E. 83rd Road O Wildwood, Florida 34785 O (352) 748-3126

TYPICAL UTILITY NOTES

Sid SEMINOLE Improvement District W-03

NOT TO SCA

FILE NAME: W-TYPICAL WATER DETAILS

SCHEDULE FOR THRUST BLOCK AREAS 11/4 BEND (Sq. Ft.) 0.5 0.25 0.6 2.9 1.1 0.9 5.0 1.9 16.3 8.8 4.5 2.3 11.5 per sq. ft. soil resistance bearing WOOD BLOCKING 45° BEND MJ PLUG UNDISTURBED SOIL

AREA FOR

90° BEND

CONCRETE THRUST BLOCK

1. THRUST BLOCK BEARING AREAS SHALL BE POURED AGAINST UNDISTURBED MATERIAL. WHERE TRENCH WALL HAS BEEN DISTURBED, EXCAVATE ALL LOOSE MATERIAL AND EXTEND TO

PLUGS BEFORE POURING CONCRETE. THE JOINTS OF FITTINGS SHALL NOT BE COVERED IN

2. EXTEND THRUST BLOCK FOR FULL LENGTH OF FITTING. PLACE WOOD BLOCKING IN FRONT OF

3. ALL JOINTS SHALL BE WRAPPED IN PLASTIC FILM BOND BREAKER BEFORE CONCRETE IS

4. ROUGH BLOCKING FORMS SHALL BE USED ALONG THE SIDES OF THRUST BLOCKS. 5. THRUST BLOCKS SHALL BE USED IN COMBINATION, AS REQUIRED, TO SUIT THE SPECIFIC FITTING ARRANGEMENT 6. ALTERNATE DESIGN RESTRAINING SYSTEMS SHALL BE PROVIDED WHERE STANDARD THRUST

BLOCKING IS NOT SUITABLE. 7. ALL WOOD BLOCKING SHALL BE PRESSURE TREATED FOR GROUND CONTACT.

PIPE JOINT THRUST RESTRAINT DETAIL (1 OF 2)

Sid

POTABLE WATER CLEARANCE REQUIREMENTS

VERTICAL SEPARATION: BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS. WASTEWATER OR STORMWATER FORCE MAIN, RECLAIMED WATER PIPELINES.

1. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY-OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST TWELVE INCHES, AND PREFERABLY EIGHTEEN INCHES, ABOVE OR AT LEAST EIGHTEEN INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

2. NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORMWATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID SO THE OUTSIDE OF THE WATER MAIN IS AT LEAST EIGHTEEN INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

3. AT THE UTILITY CROSSINGS DESCRIBED IN PARAGRAPHS 1 AND 2 ABOVE, ONE FULL LENGTH OF WATER MAIN PIPE SHALL BE CENTERED ABOVE OR BELOW THE OTHER PIPELINE SO THE WATER MAIN JOINTS WILL BE AS FAR AS POSSIBLE FROM THE OTHER PIPELINE. ALTERNATIVELY, AT SUCH CROSSINGS. THE PIPES SHALL BE ARRANGED SO THAT ALL WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORMSEWERS, STORMWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. AND AT LEAST SIX FEET FROM ALL JOINTS IN GRAVITY-OR PRESSURE-TYPE SANITARY SEWERS, WASTEWATER FORCE MAINS, OR PIPELINES CONVEYING RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

4. SEPARATION BETWEEN WATER MAINS AND SANITARY OR STORM SEWER MANHOLES. A. NO WATER MAIN SHALL PASS THROUGH, OR COME IN CONTACT WITH, ANY PART OF A

SANITARY MANHOLE. B. WATER MAINS SHALL NOT BE CONSTRUCTED OR ALTERED TO PASS THROUGH, OR COME INTO CONTACT WITH ANY PART OF A STORM SEWER MANHOLE OR INLET STRUCTURE.

5. WHERE AN UNDERGROUND WATER MAIN IS BEING LAID LESS THAN THREE FEET HORIZONTALLY FROM ANOTHER PIPELINE AND WHERE AN UNDERGROUND WATER MAIN IS CROSSING ANOTHER PIPELINE AND IS BEING LAID LESS THAN THE REQUIRED MINIMUM VERTICAL DISTANCE FROM THE OTHER PIPELINE:

A. USE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT LEAST FOUR INCHES THICK FOR THE WATER MAIN: AND

B. USE OF PIPE, OR CASING PIPE, HAVING HIGH IMPACT STRENGTH (I.E., HAVING AN IMPACT STRENGTH AT LEAST EQUAL TO THAT OF 0.25-INCH-THICK DUCTILE IRON PIPE) OR CONCRETE ENCASEMENT AT LEAST FOUR INCHEST THICK FOR THE OTHER PIPELINE IF IT IS NEW AND IS CONVEYING WASTEWATER OR RECLAIMED WATER.

ATEST REVISION DATE: 9/05/18

NOT TO SCAL



TYPICAL UTILITY NOTES

SiD SEMINOLI Improvement Distric W-04

6/16/2020

CLUBHOUSE

DRAWING NO.

18150(0)W09

CRESSWIND PALM BEACH **SIMMONS** WHITE CITY OF WESTLAKE, FLORIDA ENSINEERING | PLANNING | CONSULTING | SINCE 1982 WATER AND WASTEWATER DETAILS APPROVED REVISIONS P.B. D.B. 18-150(0)