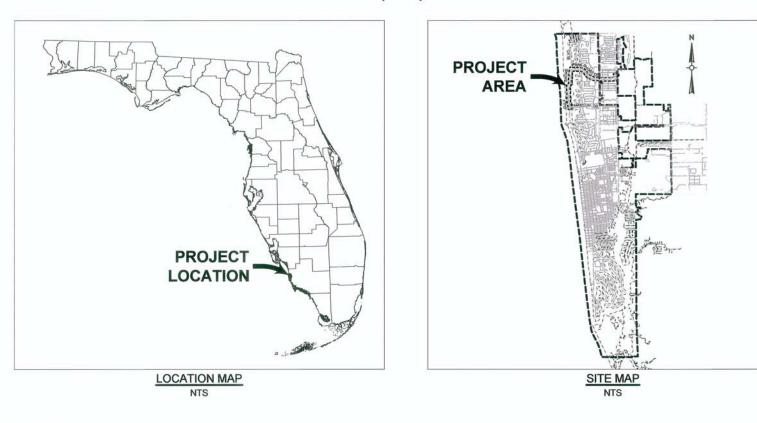
CONSTRUCTION PLANS FOR

# **RECLAIMED WATER DISTRIBUTION** SYSTEM EXPANSION

## **OPTION T-7** IMPROVEMENTS BY CITY OF NAPLES, FLORIDA UTILITIES DEPARTMENT

380 RIVERSIDE CIRCLE **NAPLES, FL 34102** PHONE: (239) 213-4745



#### CITY OF NAPLES, FLORIDA

John Sorey III, Mayor Gary Price, Vice Mayor Bill Barnett, Council Member Doug Finlay, Council Member Teresa Heitmann, Council Member Sam Saad III, Council Member Margaret "Dee" Sulick, Council Member

William Moss, City Manager

Robert Middleton, Utility Director Justin Frederiksen, Deputy Utility Director

#### UTILITY SERVICES



CONTRACTOR SHALL CALL SUNSHINE STATE ONE CALL OF FLORIDA, INC. AT LEAST 48 HOURS PRIOR TO EXCAVATION (800)-432-4770



**APRIL 2013** 



4210 METRO PARKWAY, SUITE 250, FORT MYERS, FL 33917 CERTIFICATE OF AUTHORIZATION NO. 26190

#### DRAWING INDEX

SHEET DRAWING

### TITLE

NO.	NO.	
1	-	COVER
2	G-1	GENERAL NOTES / KEY MAP
3	C-1	GULF SHORE BLVD STA 10+00 TO 29+52
4	C-2	GULF SHORE BLVD STA 29+52 TO 50+44
5	C-3	GULF SHORE BLVD STA 50+44 TO 70+27
6	C-4	PARK SHORE DRIVE STA 10+00 TO 31+23
7	C-5	PARK SHORE DRIVE STA 31+23 TO 53+87
8	C-6	PARK SHORE DRIVE STA 53+87 TO 57+97 CYPRESS WOODS DRIVE STA 57+97 TO 77+36
9	C-7	CYPRESS WOODS DRIVE STA 77+36 TO 81+46 14TH STREET NORTH STA 81+46 TO 88+68
10	C-8	HDD PLAN AND PROFILE VENETIAN BAY CHANNEL CROSSING
11	C-9	HDD PLAN AND PROFILE TAMIAMI TRAIL (US 41) CROSSING
12	C-10	3991-4021 GULF SHORE BOULEVARD N 4041-4151 GULF SHORE BOULEVARD N
13	C-11	BEST MANAGEMENT PRACTICES DETAILS
14	C-12	CITY OF NAPLES STANDARD DETAILS
15	C-13	CITY OF NAPLES STANDARD DETAILS
16	C-14	STANDARD DETAILS

CLAMED WATER IMPROVEMENTS

No. XXX-XX

#### GENERAL NOTES & INSTRUCTIONS:

- ALL WATER MAIN AND PIPING FACILITIES SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE CITY OF NAPLES STANDARD DETAILS AND SPECIFICATONS (LATEST UPDATE). THE MINIMUM COVER FOR ALL PROPOSED UTILITIES SHALL BE 30" UNLESS OTHERWISE INDICATED ON THE CONSTRUCTION PLANS OR APPROVED BY THE CITY UTILITY ENGINEER.
- CONTRACTOR SHALL NOT EXCEED 75% OF THE MANUFACTURERS' RECOMMENDED MAXIMUM DEFLECTION WHEN DEFLECTING PIPE. FITTINGS MAY BE USED FOR PIPE ALIGNMENT CHANGES RATHER THAN DEFLECTING JOINTS AT THE CONTRACTOR'S **EXPENSES**
- CONTRACTOR SHALL KEEP A RECORD OF ALL CHANGES AND MAINTAIN AN AS-BUILT PLAN AT ALL TIMES. THIS PLAN WILL BE FURNISHED TO THE ENGINEER, IMMEDIATELY AFTER PRESSURE TESTING IS COMPLETED FOR THE PREPARATION OF AS-BUILTS. THE CONTRACTOR SHALL ALSO NOTATE ALL OTHER UTILITIES LOCATED DURING EXCAVATION. THE CONTRACTOR SHALL OBTAIN GPS LOCATIONS OF NEW AND EXISTING UTILITIES DURING CONSTRUCTION AND PROVIDE THE GPS LOCATIONS
- TO THE ENGINEER IN A FORMAT COMPATIBLE WITH THE CITY'S GIS STANDARDS. SEE CITY PROVIDED POTABLE WATER PLANS FOR POTABLE WATER AS-BUILT 3.1. REQUIREMENTS.
- CONTRACTOR SHALL MAINTAIN EXISTING TRAFFIC/ACCESS, EXISTING DRAINAGE, AND EXISTING UTILITIES DURING CONSTRUCTION.
- ALL FINAL FITTINGS, PIPE, AND VALVE LOCATIONS THAT DEVIATE FROM THE PLAN 5. SHALL BE APPROVED IN THE FIELD BY THE OWNER/UTILITY ENGINEER/PROJECT MANAGER
- THE LOCATION OF EXISTING UTILITIES AND FACILITIES HAS BEEN PREPARED FROM THE MOST RELIABLE INFORMATION AVAILABLE TO THE CITY. THE INFORMATION IS NOT GUARANTEED, THEREFORE THE CONTRACTOR SHALL VERIFY THE LOCATION AND ELEVATION OF ALL UTILITIES AND FACILITIES IN THE FIELD PRIOR TO THE START OF 6. ANY CONSTRUCTION ACTIVITIES.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY COMPANIES IN THE AREA 48 HOURS MINIMUM PRIOR TO START OF CONSTRUCTION, AND SHALL HAVE ALL SERVICE LINES (TELEPHONE, POWER, GAS, CABLE TV, WATER, SANITARY SEWER, FORCE MAINS, STORMWATER, IRRIGATION, AND ANY OTHERS) LOCATED AND FLAGGED PRIOR TO **EXCAVATION**
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR REPAIRING ALL UTILITY LINES AND SERVICES DAMAGED DURING CONSTRUCTION, INCLUDING IRRIGATION SERVICES. THE APPROPRIATE UTILITY SHALL BE NOTIFIED OF ALL DAMAGED LINES AND FACILITIES PRIOR TO REPAIRS. ALL NECESSARY REPAIRS SHALL BE PERFORMED IMMEDIATELY UPON DAMAGE OF THE LINE OR FACILITY.
- ALL PAVING, STABILIZED EARTH, DRIVEWAYS, CURBS, SIDEWALKS, SOD, LANDSCAPING, SIGNS, MAIL BOXES, GRASS, FENCING, ETC.; DAMAGED OR REMOVED BY THE CONTRACTOR'S OPERATIONS, SHALL BE RESTORED TO A CONDITION EQUIVALENT TO PRE-CONSTRUCTION OR BETTER CONDITION; UNLESS OTHERWISE APPROVED BY THE UTILITY ENGINEER / PROJECT MANAGER / OWNER.
- 10. ALL ELEVATIONS SHALL BE BASED ON NORTH AMERICAN VERTICAL DATUM (NAVD).
- THE CONTRACTOR IS REQUIRED TO OBTAIN WRITTEN APPROVAL FROM THE UTILITY ENGINEER / PROJECT MANAGER / OWNER FOR ANY DEVIATIONS FROM THE PLANS AND/OR SPECIFICATIONS.
- THE CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO 12. COMMENCEMENT OF CONSTRUCTION AND NOTIFY THE UTILITY ENGINEER IMMEDIATELY OF ANY REQUIRED PLAN DEVIATIONS.
- 13. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A DEWATERING PERMIT FROM THE SOUTH FLORIDA WATER MANAGEMENT DISTRICT AS REQUIRED (IF APPLICABLE). NO EXTRA COMPENSATION FOR DEWATERING WILL BE ALLOWED.
- 14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING A RIGHT OF WAY PERMIT FROM THE LOCAL AUTHORITY AS REQUIRED, IF APPLICABLE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND USAGE OF THE EXISTING STREETS/PROPERTIES ADJACENT TO THE PROJECT AREA AT ALL TIMES, ALL TRAFFIC MAINTENANCE CONTROL SHALL BE IN ACCORDANCE WITH THE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS, INDEX 600 SERIES. CONTRACTOR SHALL SUBMIT AN APPROVED MAINTENANCE OF TRAFFIC PLAN TO THE WNER/UTILITY ENGINEER PRIOR TO CONSTRUCTION
- 16. ALL UTILITY CONNECTIONS SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE AGENCY HAVING JURISDICTION OF EACH INDIVIDUAL UTILITY
- 17. THE CONTRACTOR SHALL MINIMIZE THE WORK AREA OF THE TRENCHES TO AVOID DISTURBANCES OF NATURAL VEGETATION. SPOIL FROM TRENCHES SHALL BE PLACED ONLY ON PREVIOUSLY CLEARED AREAS, EXISTING RIGHT-OF-WAY, OR APPROVED EASEMENT. THE CONTRACTOR SHALL NOT REMOVE OR DISTURB ANY TREES OR SHRUBS WITHOUT PRIOR APPROVAL FROM THE OWNER/UTILITY ENGINEER /PROJECT MANAGER.
- THE 30" MINIMUM COVER REQUIREMENT FOR THE PROPOSED WATER AND REUSE 18. LINE IMPROVEMENTS SHALL BE MEASURED FROM FINISHED GRADES. IT IS THE CONTRACTOR'S RESPONSIBILITY TO INSURE MINIMUM COVER REGARDLESS OF EXISTING GRADE, PERIODIC CHECKS (MIN, EVERY 200FT) FOR MINIMUM COVER SHALL BE MADE BY THE CONTRACTOR AND RECORDED ON THE RECORD DRAWINGS.
- 19. ALL MECHANICAL FITTINGS SHALL BE RESTRAINED WITH MEGA-LUG OR APPROVED EQUAL. ALL FLANGED FITTINGS SHALL HAVE MIN. 1/16" RUBBER GASKETS AND STAINLESS STEEL HARDWARE.
- ALL IN-LINE VALVES SHALL BE MAIN SIZED MECHANICAL JOINT AND RESTRAINED WITH MOLDED FLANGE ADAPTOR WITH STEEL RETAINING RING AS SUPPLIED BY THE MANUFACTURER. THE VALVES SHALL BE RESILIENT SEAT GATE VALVES WITH 2" RIVER NUT AS PER CITY STANDARDS
- 21. THE CONTRACTOR SHALL NOTIFY RESIDENCES AND BUSINESSES AT LEAST 48 HOURS IN ADVANCE OF ANY DISRUPTION OF SERVICE, INCLUDING DRIVEWAY CUTS.
- 22. CONTRACTOR IS ADVISED TO VISIT THE PROJECT CONSTRUCTION AREA PRIOR TO SUBMITTING THEIR PROPOSAL. THE PROPOSAL SHALL BE FINAL AND ACKNOWLEDGES THAT CONTRACTOR IS FAMILIAR WITH EXISTING SITE CONDITIONS.

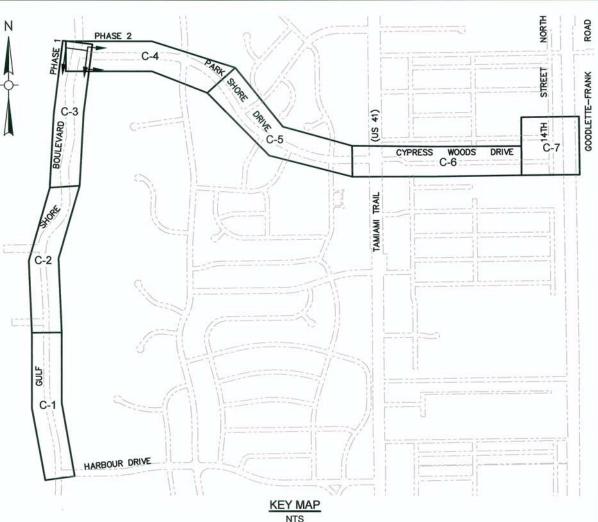
- 23. NO WORK SHALL BE PERFORMED AT NIGHT. ANY WORK REQUIRED TO BE PERFORMED AT NIGHT SHALL BE SUBJECT TO APPROVAL BY THE OWNER/UTILITY ENGINEER/PROJECT MANAGER. ALL WORK SHALL BE BETWEEN THE HOURS OF 7 A.M. AND 7 P.M.
- THE CONTRACTOR SHALL PERFORM AN AUDIO/VIDEO LOG OF THE ENTIRE PROJECT CONSTRUCTION AREA PRIOR TO ANY CONSTRUCTION ACTIVITIES. THIS LOG WILL 24. ENSURE RESTORATION ACTIVITIES AND AID IN RESOLVING ANY CONFLICTS THAT
- 25. THE CONTRACTOR SHALL SUPPLY ALL PIPING, FITTINGS, AND RECLAIMED WATER MAIN ASSOCIATED MATERIALS. THE CONTRACTOR SHALL SUPPLY ALL MATERIALS AND SUPPLIES NECESSARY FOR THE INSTALLATION OF THE SPECIFIED RECLAIMED WATER LINE/CONNECTIONS AND ALL RESTORATION ACTIVITIES.
- 26. ALL RECLAIMED WATER MAIN PIPING SHALL BE C-900/C-905 PVC PIPE (PURPLE) DR-14 TO BE USED THROUGHOUT ENTIRE PROJECT; UNLESS OTHERWISE NOTED ON THE PLANS OR INSTRUCTED BY THE UTILITY ENGINEER / PROJECT MANAGER.
- THE CONTRACTOR SHALL INSTALL A TRACER WIRE, 1030P-HS BY COPPERHEAD INDUSTRIES, LLC. OR APPROVED EQUAL, ALONG THE ENTIRE LENGTH OF THE REUSE MAIN, ADDITIONAL REUSE CONNECTIONS, AND ANY RESUSE METER SERVICE DROPS. THIS TRACER WIRE SHALL BE INSTALLED AT THE TOP-DEAD CENTER OF THE PIPE AND HELD IN PLACE WITH A PIECE OF DUCT TAPE (SUPPLIED BY CONTRACTOR). DROOPING OR MIS-ALIGNMENT OF THE TRACER WIRE IS NOT ACCEPTABLE. A 6" LOOP SHALL BE PROVIDED AT EACH SERVICE CONNECTION/TAP SO THAT THE TRACER WIRE WILL BE SPLICED FROM THE MAIN TRACER WIRE TO THE SERVICE TRACER WIRE WILL BE SPLICED FROM THE MAIN TRACER WIRE TO THE SERVICE TRACER WIRE; WITH A 78B MIN. SELF-SEALING WIRE NUT. A 18" TO 24" LOOP OF TRACER WIRE SHALL BE LEFT IN EACH METER BOX AND CAPPED WITH A WIRE CONNECTOR. LOCATOR BALLS SHALL BE PLACED AT THE BEGINNING AND END OF EACH MAIN LINE DEFLECTION; AT EACH TAP; AT EACH BRANCH LINE; AND EVERY 100 LINEAR FEET OF PIPE, AS SPECIFIED IN SECTION 02650, LAYING AND JOINTING BURIED PIPELINES. SERIAL NUMBERS OF LOCATOR BALLS SHALL BE INCLUDED ON THE AS-BUILT DRAWINGS.
- 28. THE CONTRACTOR SHALL ACCURATELY LOG ALL ELEVATIONS AND DIMENSIONS OF ALL DEFLECTIONS, TAPS, AND BRANCHES ON THE PLANS PRIOR TO BACKFILL.
- 29. ANY TIME STRUCTURES, CURBS, AND /OR DRIVES THAT ARE UNDERMINED OR DISTURBED DURING PROJECT INSTALLATIONS; THE CONTRACTOR SHALL PROVIDE PROPER COMPACTION TO WITHIN 12" OF FINISH GRADE, FLOWABLE FILL SHALL USED TO STABILIZE THE REMAINDER OF THE EXCAVATION TO FINAL FINISH GRADE. THE CONTRACTOR SHALL REPAIR/REPLACE ANY FACILITIES DAMAGED DURING THE PROJECTS EXCAVATIONS.
- REQUIRED CLEARANCES: CONTRACTOR SHALL MAINTAIN A MINIMUM 3 FEET HORIZONTALLY FROM POTABLE WATER MAINS AND 12 INCHES VERTICALLY; OTHERWISE NOTIFY UTILITY ENGINEER/PROJECT MANAGER IMMEDIATELY.

#### SPECIAL NOTE TO CONTRACTOR:

IT IS THE LAW IN FLORIDA:

TWO BUSINESS DAYS BEFORE YOU DIG - CALL SUNSHINE 1-800-432-4770. (811)\*\* CONTRACTOR SHALL PRE-MARK PROPOSED WORK AREA WITH WHITE PAINT PRIOR TO REQUESTING LOCATIONS AS REQUIRED BY STATUTE.

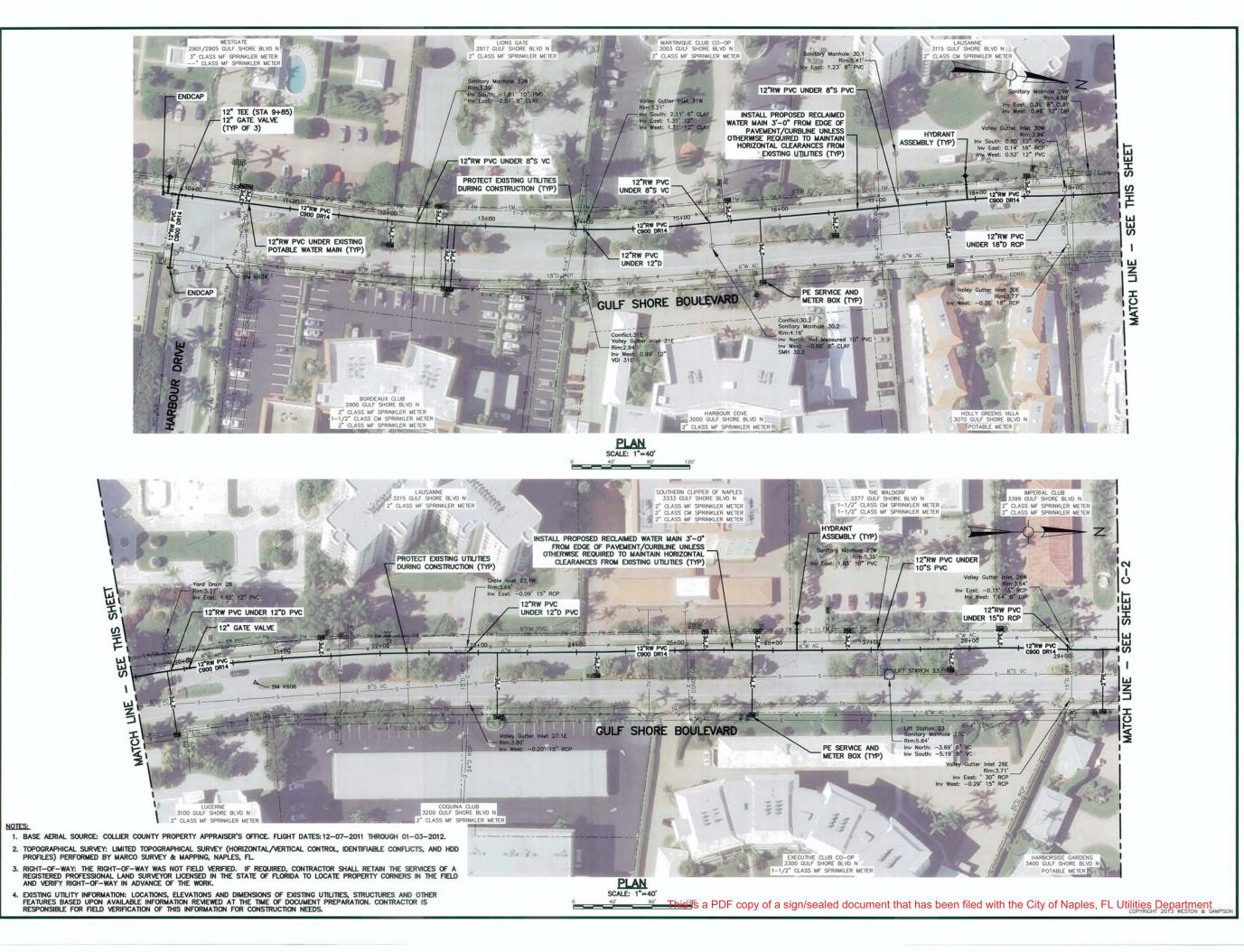
5						
<u>.</u>			1	SPIGOT		
BACKFLOW PREVENTER	P	FLAG POLE	≪	SPRINKLER		FOUND CONCRETE MONUMENT
BENCH MARK		FORCE MAIN		STEEL POST	0	FOUND DRILL HOLE
BOLLARD		GAS PIPELINE MARKER	0	TELEPHONE CANISTER		FOUND IRON ROD
CABLE RISER		GUARD RAIL	0	TELEPHONE MANHOLE		FOUND IRON ROD & CAP
CABLE TV BOX	-0-	GUY POLE	0	TELEPHONE RISER		FOUND NAIL
CATCH BASIN	-3	GUY WIRE		TOE OF SLOPE		FOUND NAIL & DISK
CENTERLINE		IRRIGATION BOX		TOP OF BANK	0	FOUND PARKER KALON NAIL
CLEANOUT	M	IRRIGATION VALVE	60	TRAFFIC SIGNAL BOX	0	FOUND PARKER KALON NAIL & DISK
COORDINATE NUMBER	ø	LIGHT POLE		UNDERGROUND UTILITIES	0	SET CONCRETE MONUMENT
CONCRETE POWER POLE	調	MAIL BOX		WATER MAIN	0H.	SET DRILL HOLE
DRAINAGE MANHOLE	π	MITERED END	1	WATER LINE FLAG	0	SET 5/8" IRON ROD & CAP
ELECTRICAL BOX	0	MONITORING WELL	553	WATER METER	0	SET 5/8" PARKER KALON NAIL & DISK
ELECTRIC METER		OVERHEAD POWER LINE	No.	WATER VALVE	to -	TOPOGRAPHY AND PIPE INVERTS
ELECTRIC LINE	70.	POWER POLE	11	WOOD POST -X	RW	NEW RECLAIMED WATER MAIN
EXISTING ELEVATION	-12-	POWER POLE w/RISER	-0+	WOOD SUPPORT POLE	4	NEW REDUCER
FENCE - BARBED WIRE		SANITARY SEWER LINE	1	YARD DRAIN	4	EXISTING REDUCER
FENCE - CHAIN LINK	0	SEWER MANHOLE	0	BUSH	1	NEW BLOWOFF ASSEMBLY
FENCE - WOOD	NV Doct	SEWER VALVE		CABBAGE PALM		
FIBER OPTIC MARKER	10	SECURITY SENSOR	633	OAK TREE		
FIRE HYDRANT	-	SIGN SINGLE POST	-Me	PALM TREE		
FIRE VALVE			1980	PINE TREE		
	SENCH MARK	SERICH MARK  SOLLARD  CALL RISER  CALL RISER  CALCH BASIN  CALCH BASIN  CALCH BASIN  CALCH BASIN  COORDINATE NUMBER  COORDINATE NUMBER  COORDINATE NUMBER  COORDINATE NUMBER  COORDINATE NUMBER  CLEANOUT  CLE	BEINCH MARK FORCE MAIN  BOLLARD GAS PIPELINE MARKER  CABLE RISER GUARD RAIL  CABLE RISER GUARD RAIL  CABLE TV BOX GUY POLE  CAICH BASIN	SENCH MARK FORCE MAIN FORCE MAIN SOLLARD GAS PIPELINE MARKER CALLARD GUARD RAIL COLLARD CALLE RISER GUIARD RAIL COLLARD RA	SERICH MARK FORCE MAIN = STEEL POST BOLLARD □ GAS PIPELINE MARKER □ TELEPHONE CANISTER CABLE RISER GUARD RAIL □ TELEPHONE CANISTER CABLE RISER GUY POLE □ TELEPHONE INSER CATCH BASIN GUY WIRE TOE OF SLOPE CATCH BASIN RIGATION VALVE TRAFFIC SIGNAL BOX CORORINATE NUMBER LIGHT POLE WATER MAIN DORAINAGE MANHOLE MITERED END WATER MAIN DECTRICAL BOX MITTRIED END WATER MAIN DELECTRICAL BOX MITTRIED END WATER WATER LINE FLAG ELECTRICAL BOX OWNER POLE WATER WATER LINE FLAG ELECTRICAL BOX OWNER POLE WATER WATER VALVE ELECTRICAL EVATION POWER POLE WOOD POST	BERICH MARK       FORCE MAN       STEEL POST         BOLLARD       GAS PIPELINE MARKER       TELEPHONE CANISTER         CABLE RISER       GUJARD RAIL       TELEPHONE CANISTER         CABLE RISER       GUJY POLE       TELEPHONE RISER         CALCH BASIN       GUY POLE       TELEPHONE RISER         CATCH BASIN       GUY WRE       TOP OF SANK         CENTERLINE       IRRIGATION VALVE       TRAFFIC SIGNAL BOX         CULANOUT       IRRIGATION VALVE       TRAFFIC SIGNAL BOX         COORDINATE NUMBER       LIGHT POLE       UNDERGROUND UTILITES         CONCORDINATE NUMBER       LIGHT POLE       WATER MAIN         CONCORDINATE NUMBER       MAIL BOX       WATER MAIN         CONCORDINATE NUMBER       MAIL BOX       WATER MAIN         CONCORDINATE NUMBER       MONITORING WELL       WATER MAIN         CELECTRIC LINE       TOP OVER POLE       WATER VALVE         CELECTRIC LINE       TOP POWER POLE       WATER VALVE         CONSTRING LELVATION       POWER POLE       WATER VALVE         CONSTRUE LEVATION       SEWER MANHOLE       WATER VALVE         CONSTRUE LEVATION       SEWER MANHOLE       BUSH         FENCE - OHAN LINK       SEWER MANHOLE       BUSH         FENCE - CHAN L



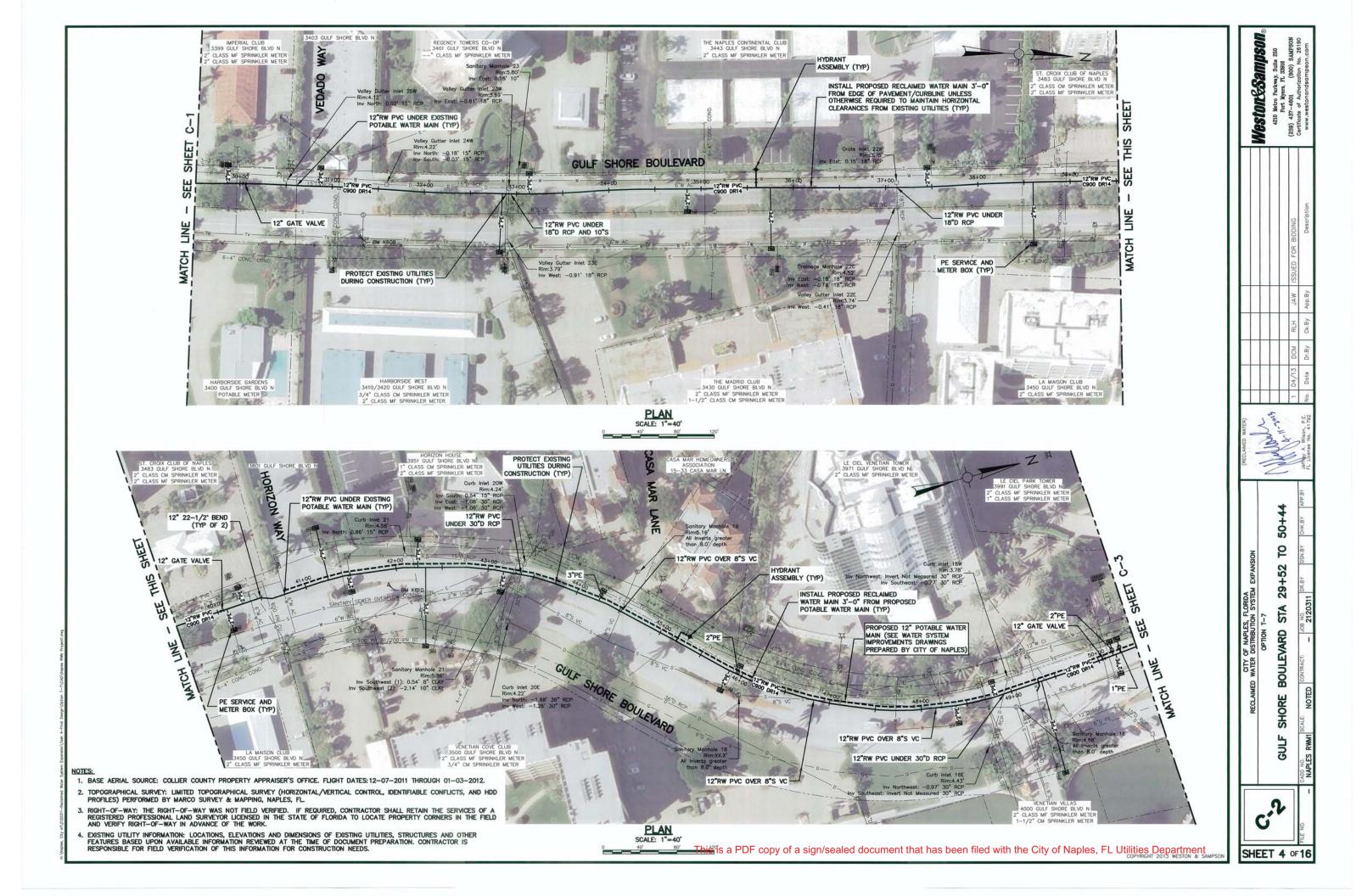
SURVEY CONTROL POINT **APPROXIMATE** DESCRIPTION NUMBER STATION BM K604 STA 10+44 (C-1) MAG W/ BLUE DISK STA 20+70 (C-1) MAG W/ BLUE DISK BM K606 **BM K608** STA 31+33 (C-2) MAG W/ BLUE DISK STA 41+90 (C-2) MAG W/ BLUE DISK BM K610 BM K612 STA 51+76 (C-3) MAG W/ BLUE DISK STA 62+05 (C-3) MAG W/ BLUE DISK BM K614 BM K616 STA 12+32 (C-4) MAG W/ BLUE DISK STA 19+77 (C-4) MAG W/ BLUE DISK BM K618 BM K620 STA 30+41 (C-4) MAG W/ BLUE DISK BM K622 STA 41+15 (C-5) MAG W/ BLUE DISK PK W/ BLUE DISK BM 686 STA 51+22 (C-5) BM 687 STA 56+31 (C-6) PK W/ BLUE DISK BM 731 STA 64+78 (C-6) PK W/ BLUE DISK BM 732 STA 73+68 (C-6) PK W/ BLUE DISK STA 84+90 (C-7) PK W/ BLUE DISK BM 734

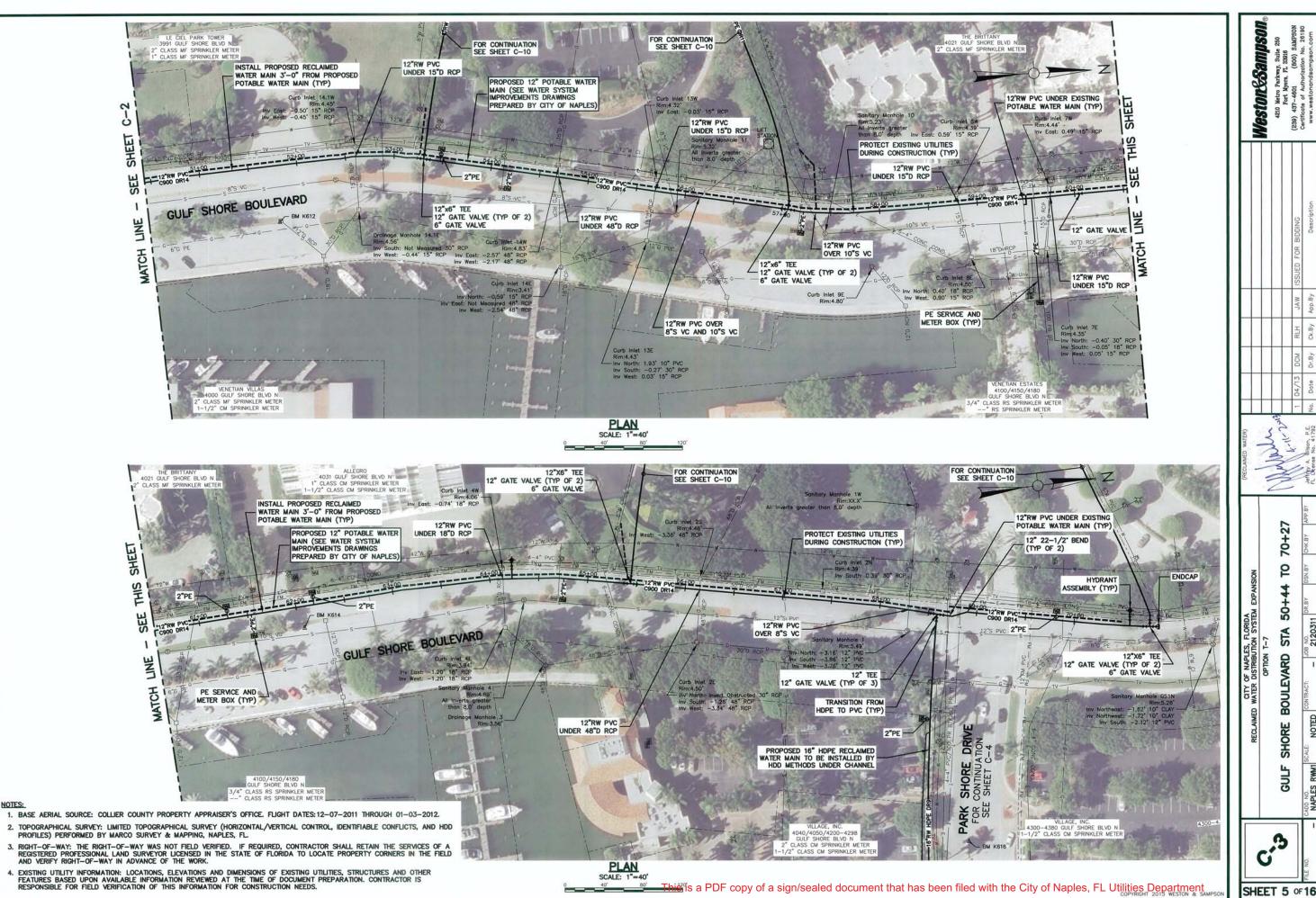
	NORTHING	EASTING	ELEVATION
+	672248.3129	389476.7943	3.92
	673261.8169	389281.9729	5.16
	674321.6504	389296.6032	3.95
	675373.1423	389211.5518	5.27
	676273.8771	389531.4686	4.58
	677292.4817	389564.8317	5.24
	677939.1161	389863.8441	7.99
	677886.2487	390604.2146	8.03
	677623.2399	391580.1325	4.52
	676844.6027	392289.9472	7.24
1	676463.2766	393217.1576	9.97
	676466.2044	393726.5833	13.93
	676472.1074	394565.7799	12.10
	676480.7412	395456.0039	10.90
1	676803.9003	396243.7510	9.77

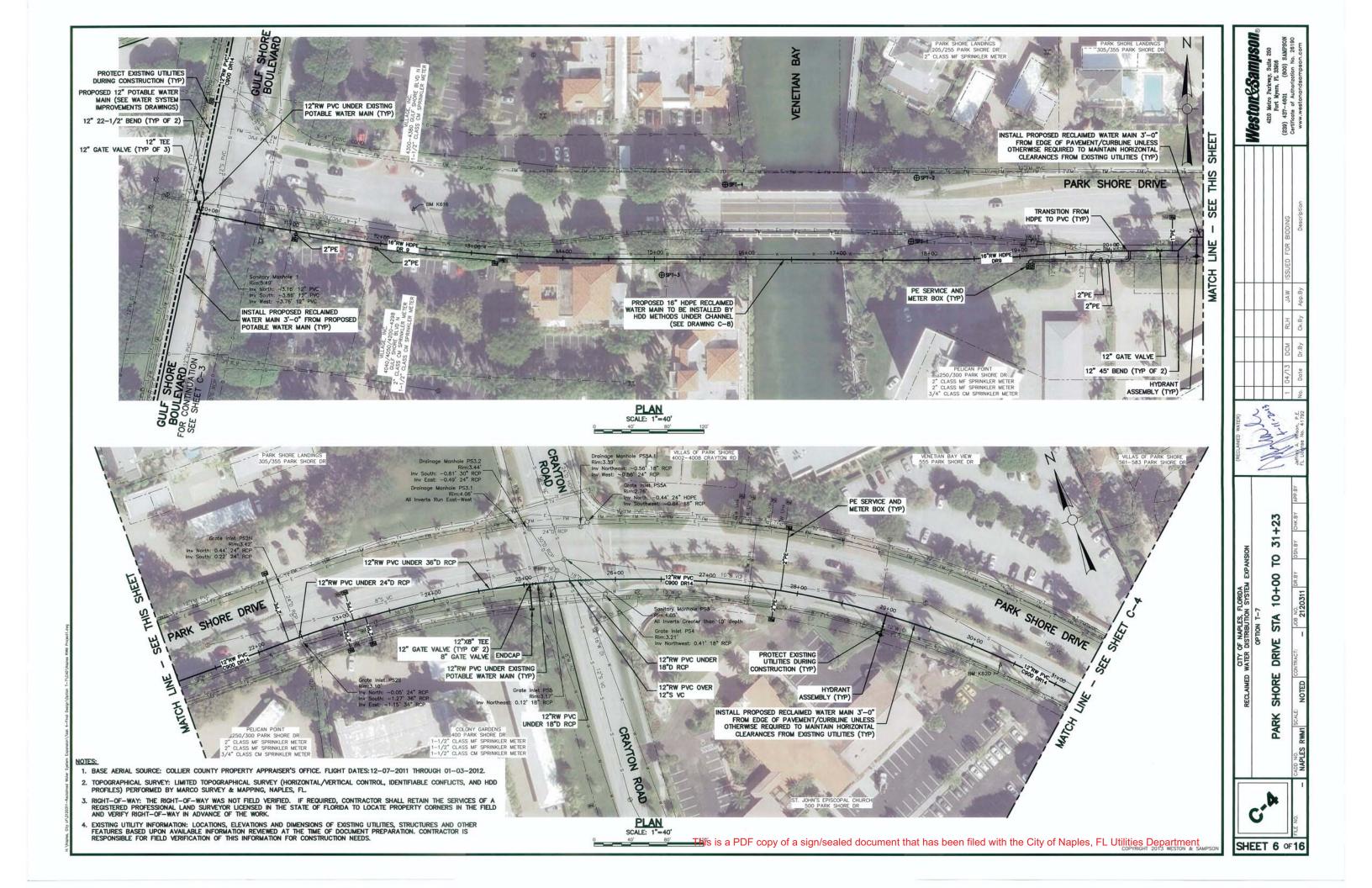


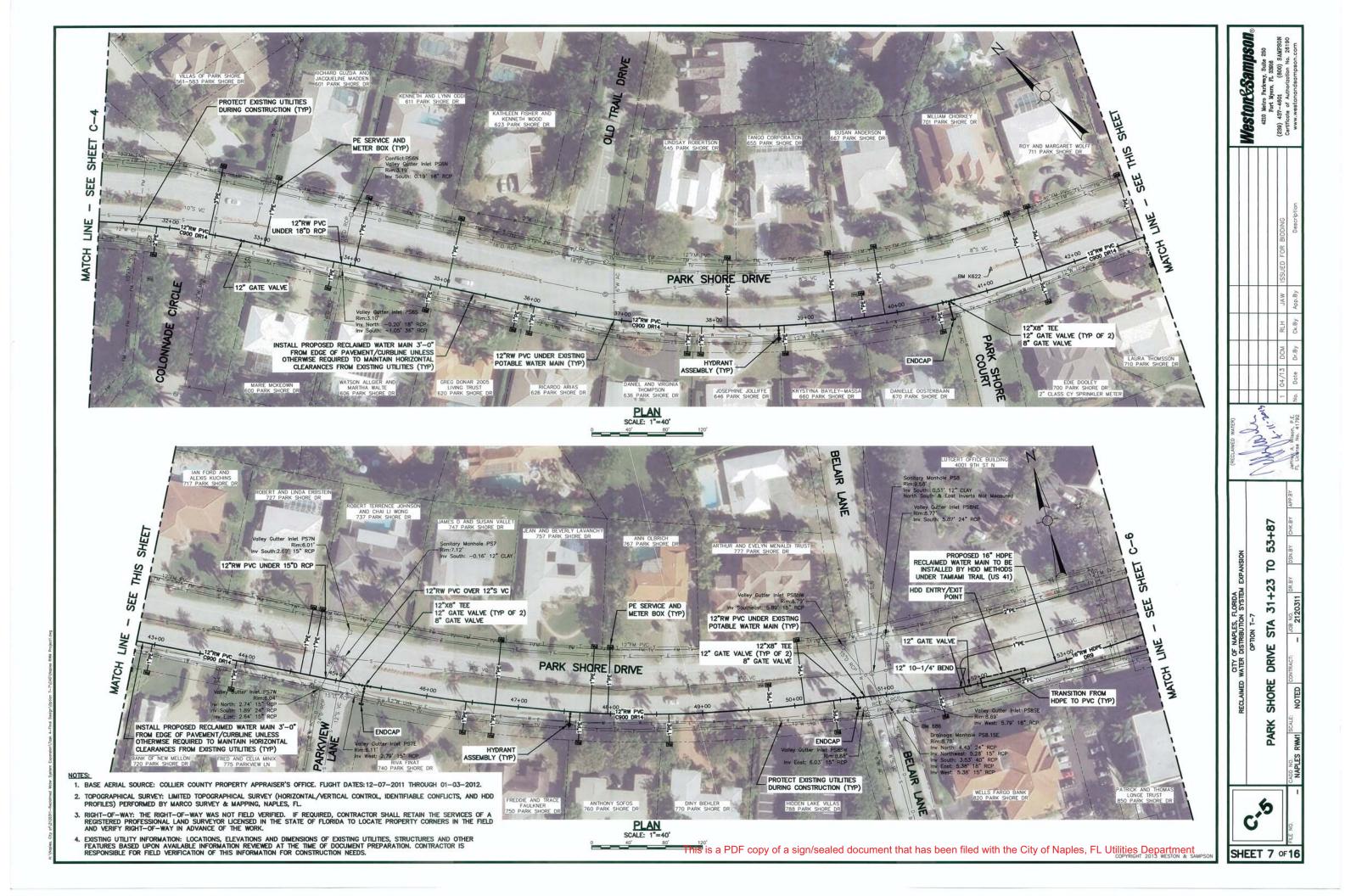


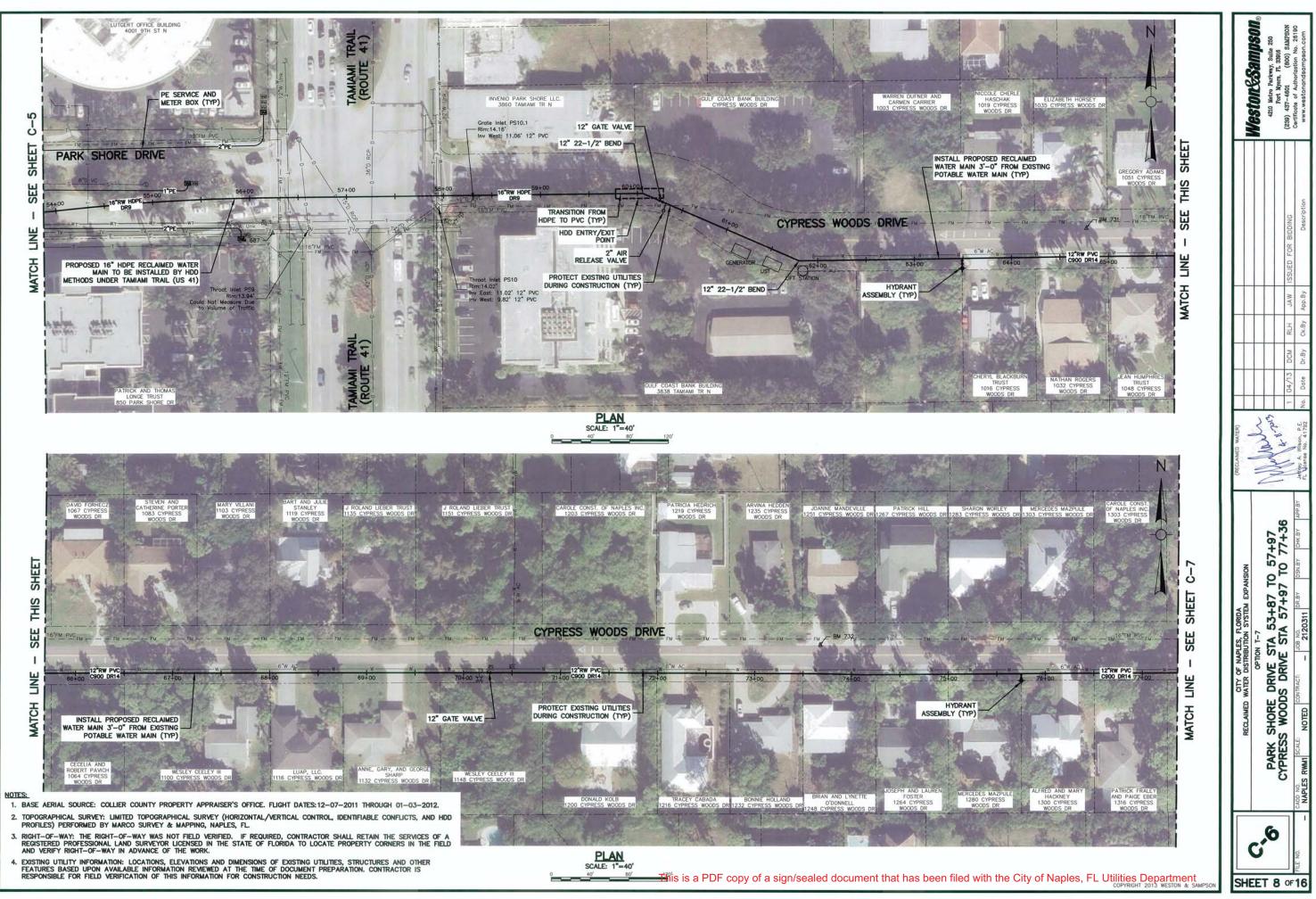
CITY OF NAPLES, FLORIDA	(RECLAIMED WATER)					
RECLAIMED WATER DISTRIBUTION SYSTEM EXPANSION						Illocton Common
OPTION T-7	- 12					
T CLICHT DOLL THE STATUTE TO TO TO TO TO	LINU JOG					4210 Metro Parkway, Suite 250
GULF SHORE BOULEVARD SIA 10+00 10 29+52						Fort Myers, FL 33916
	1 N/// K	04/13	DCM RL	RLH JAW	JAW ISSUED FOR BIDDING	(239) 437-4601 (800) SAMPSON
ADD NO. SCALE: CONTRACT: VOB NO. DR.BY DSN.BY CHK.BY APP.BY NAPLES RWM1 NOTED - 2120311	FL Vicense No. 41792 No.	No. Date D	Dr.By Ck.	Ck.By App.By	Description	vertificate or Authorization No. 20190 www.westonandsampson.com



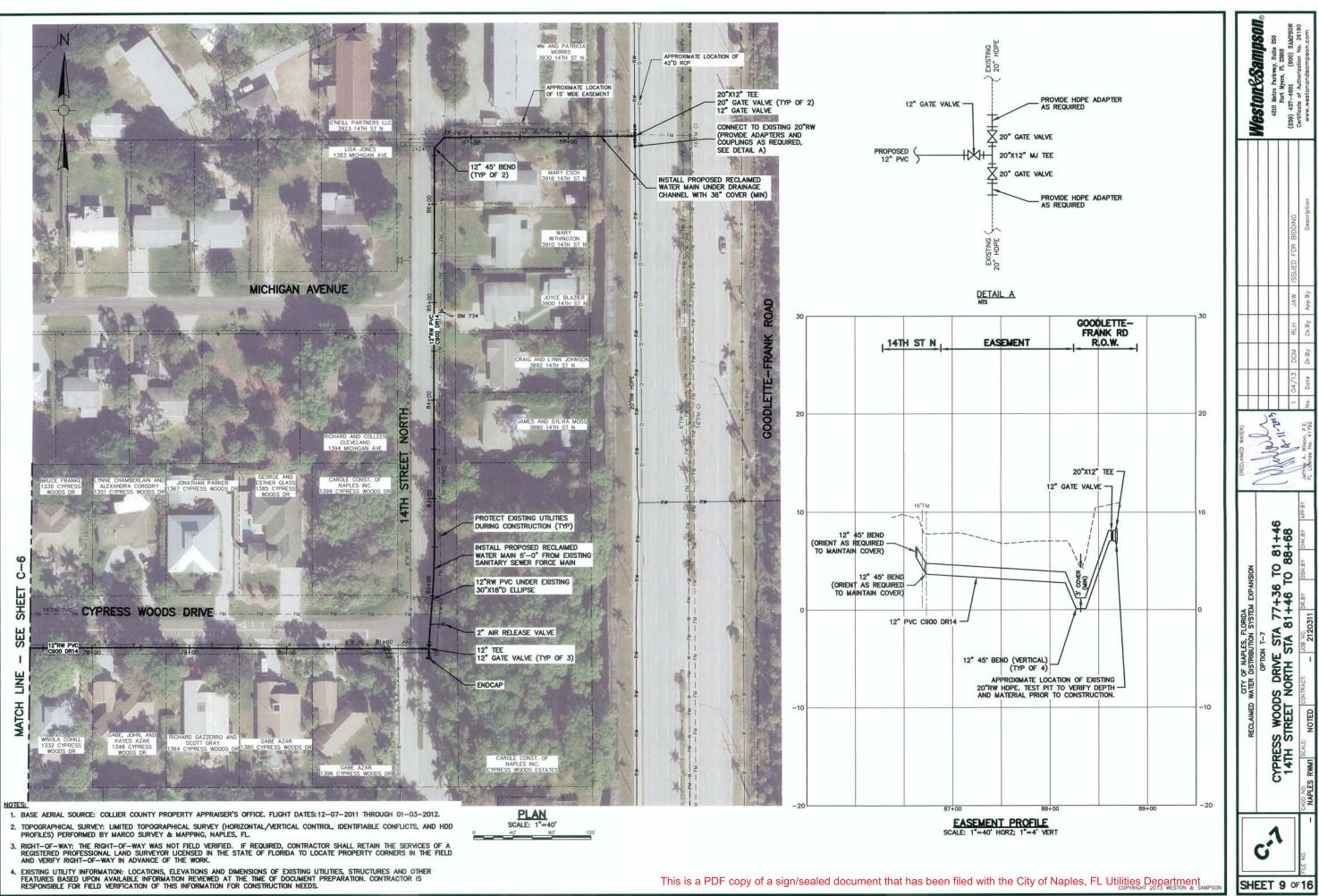


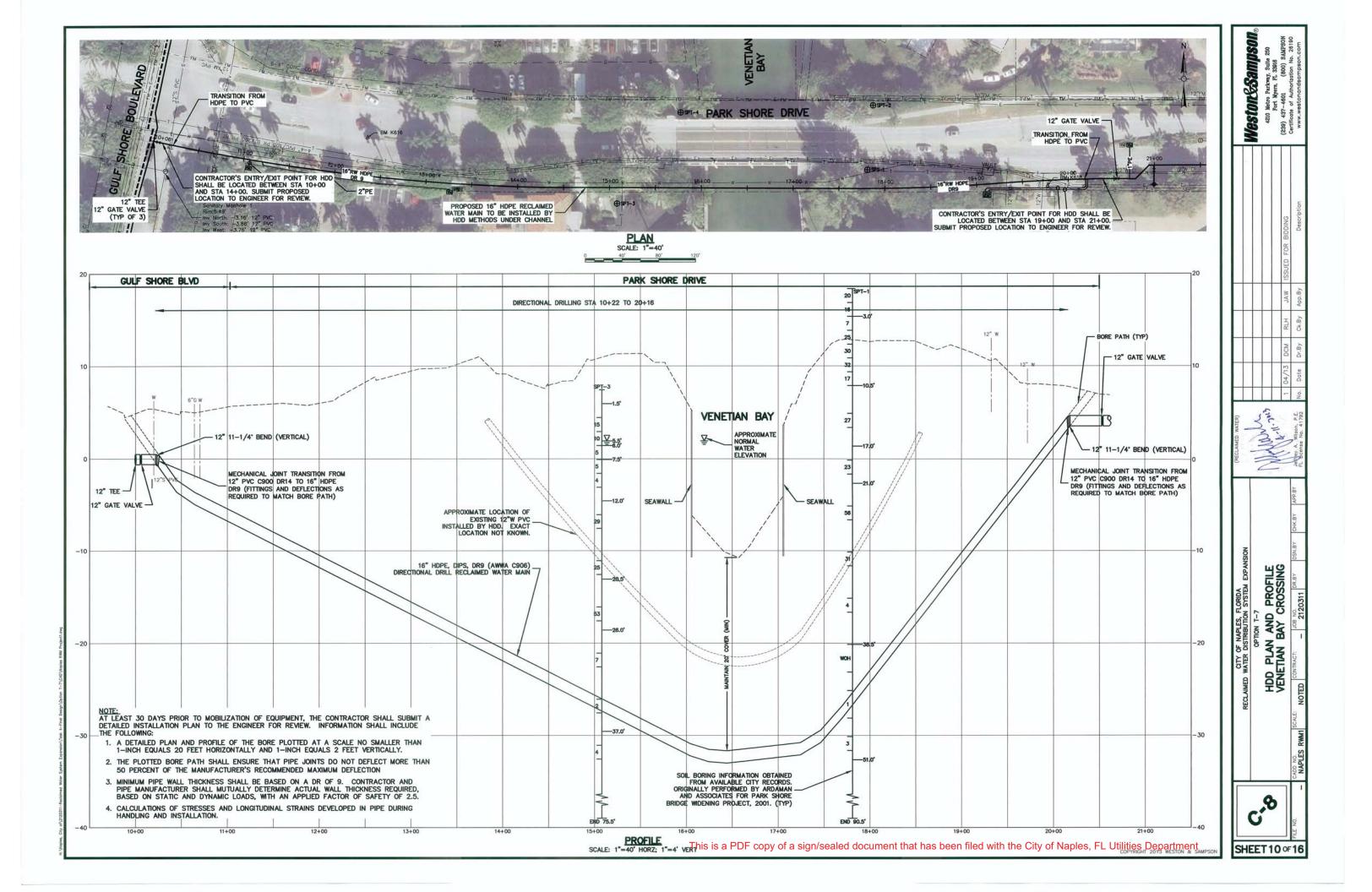


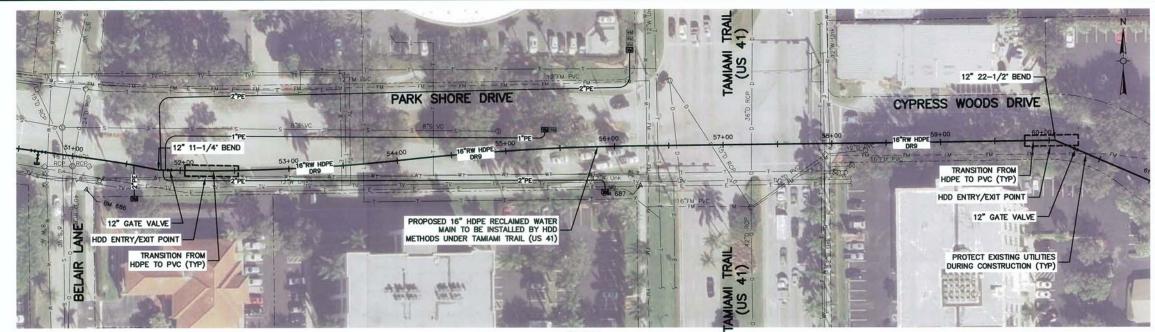




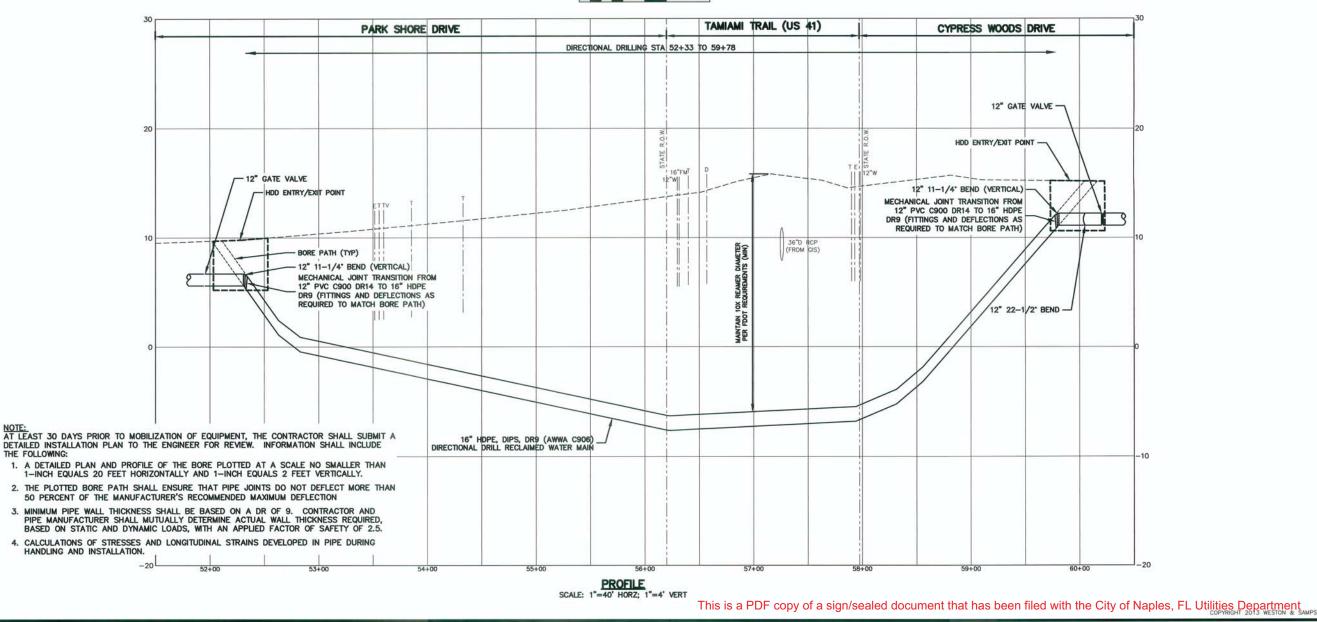
Corthon 2013



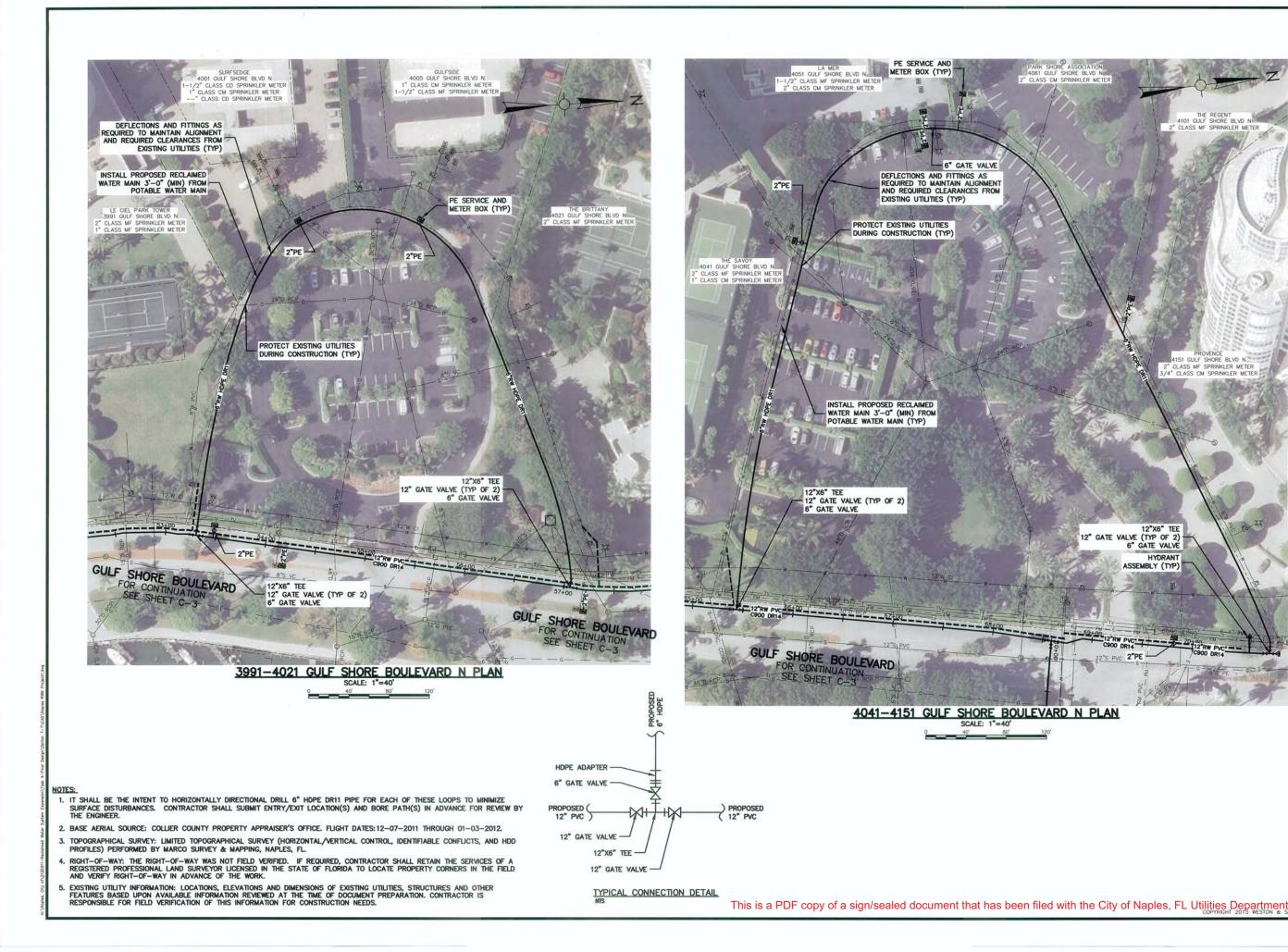






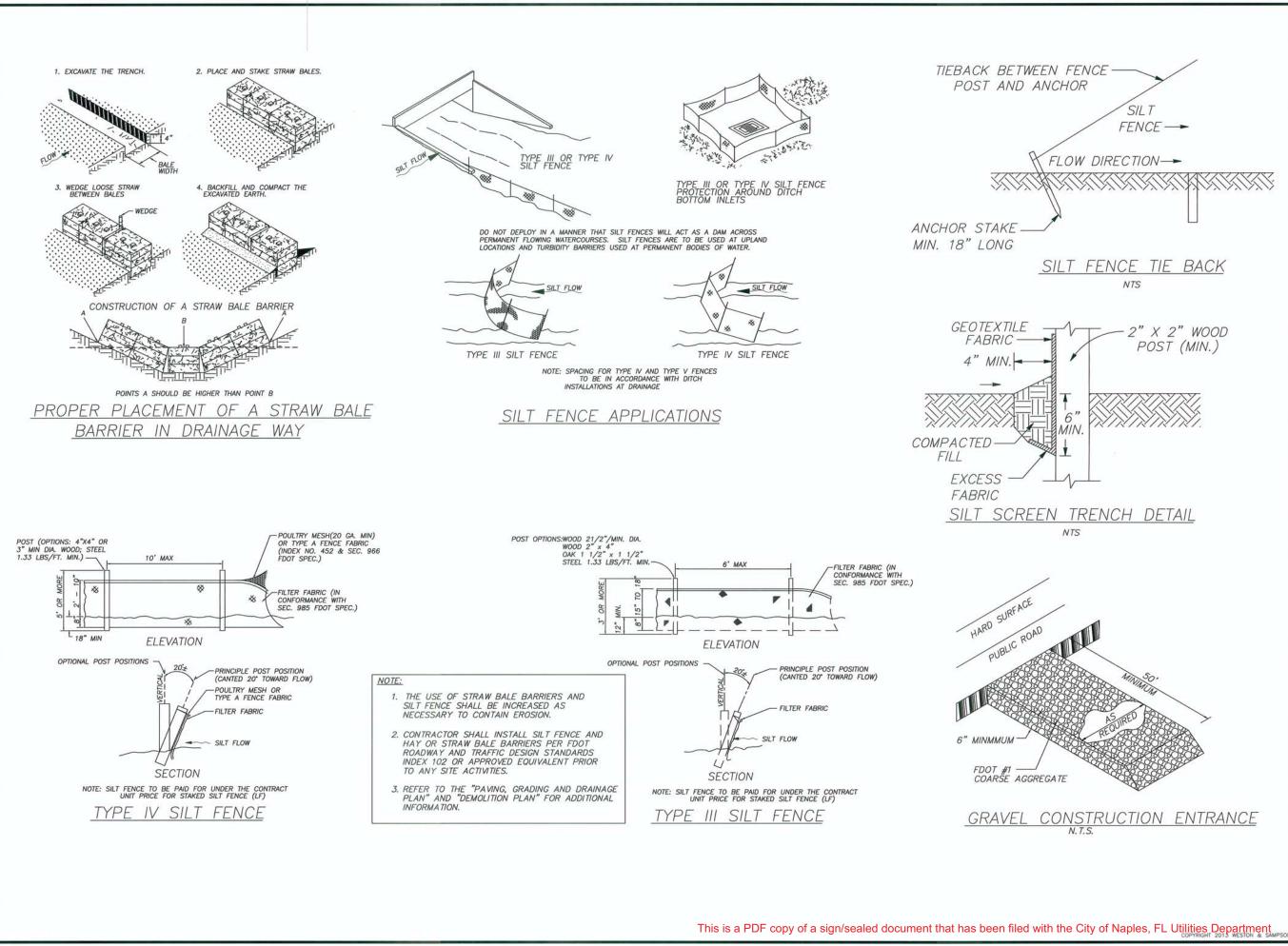




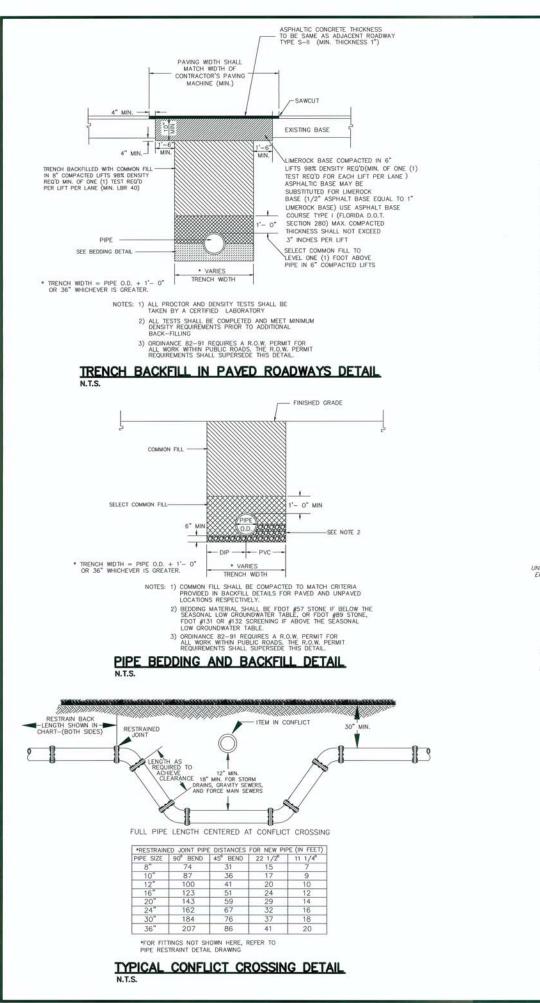


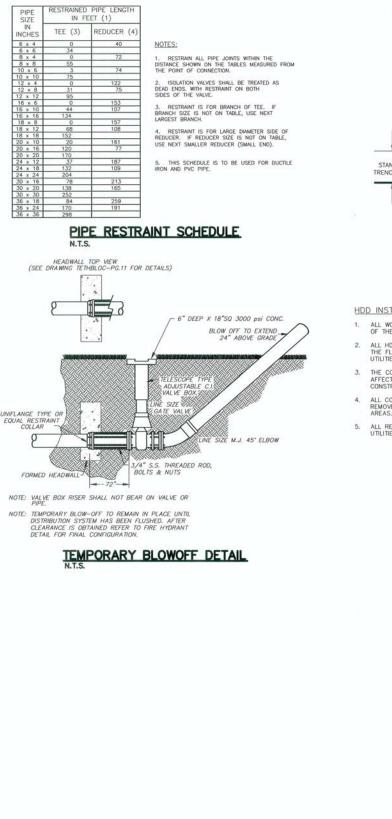






	RECLA	CITY OF NAPLES, FLORIDA RECLAIMED WATER DISTRBUTION SYSTEM EXPANSION OPTION T-7	R DISTRIE	DF NAPLES, FLORII DISTRIBUTION SYS OPTION T-7	IDA STEM EXP/	ANSION									Weston Sampson
	BEST MANAGEMENT PRACTICES DETAILS	IANAGEN	AENT	PRACI	TICES	DETAI	S		4101-11-11 ANIN						Fort Myers, FL 33916
									survey .	1 04/	/13 DCM	RLH	MAU	ISSUED FOR BIDDING	(239) 437-4601 (800) SAMPSON
LES	CADD NO. SCALE: NAPLES RWM1 NOTED	ED CONTRACT:	I E	JOB NO. 2120311	11 DR.BY	V8.NS0	CHK.BY	APP.8Y	Jerriev A. Mison, P.E. FL Udense No. 41792	No. Dat	Date Dr.By	Ck.By	App.By	Description	vertificate of Authorization No. 20190 www.westonandsampson.com





HORIZONTAL BEN

22-1/2-1

45\*

90\*

ENDS (2)

-1/4

 15
 7
 100

 17
 9
 120

 20
 10
 141

 24
 12
 181

 27
 13
 200

 29
 14
 218

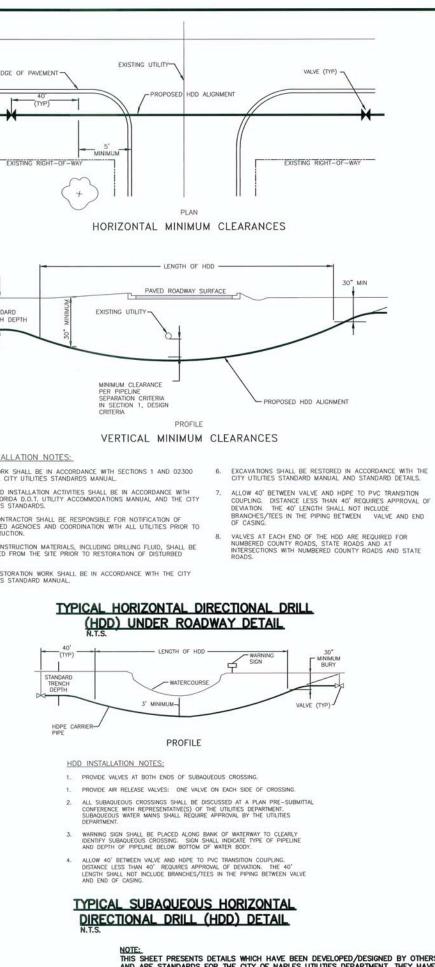
 32
 16
 253

 37
 18
 303

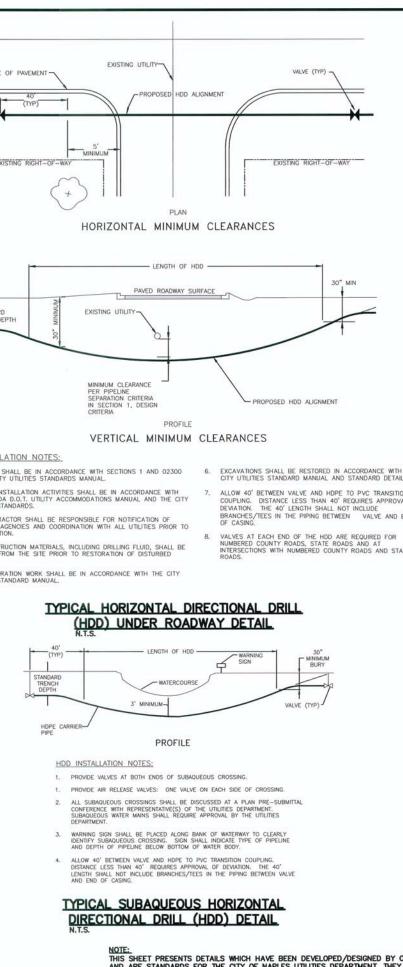
 41
 20
 350

BEND

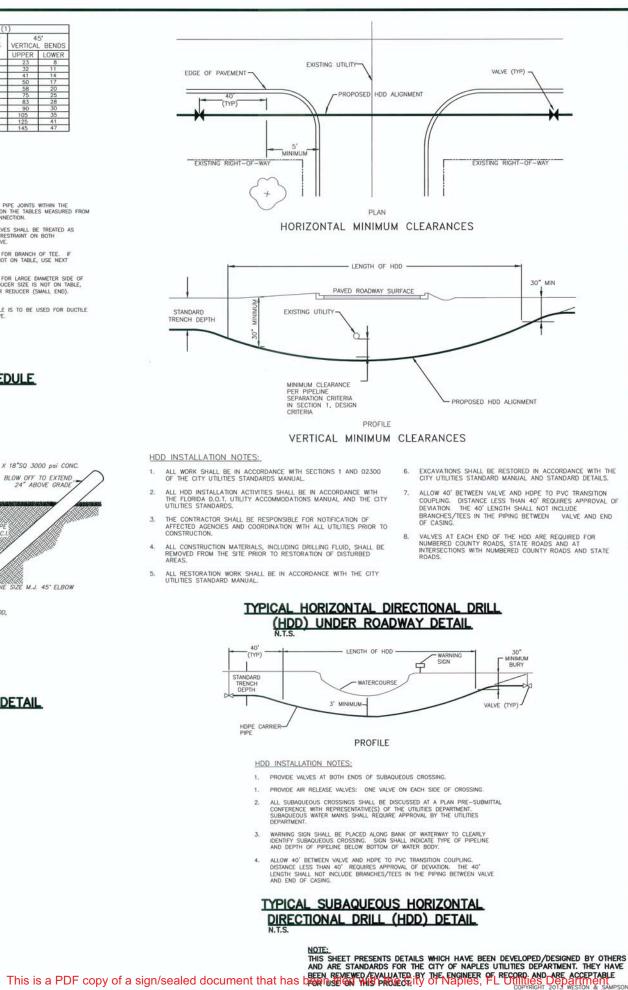
UPPER LOWER



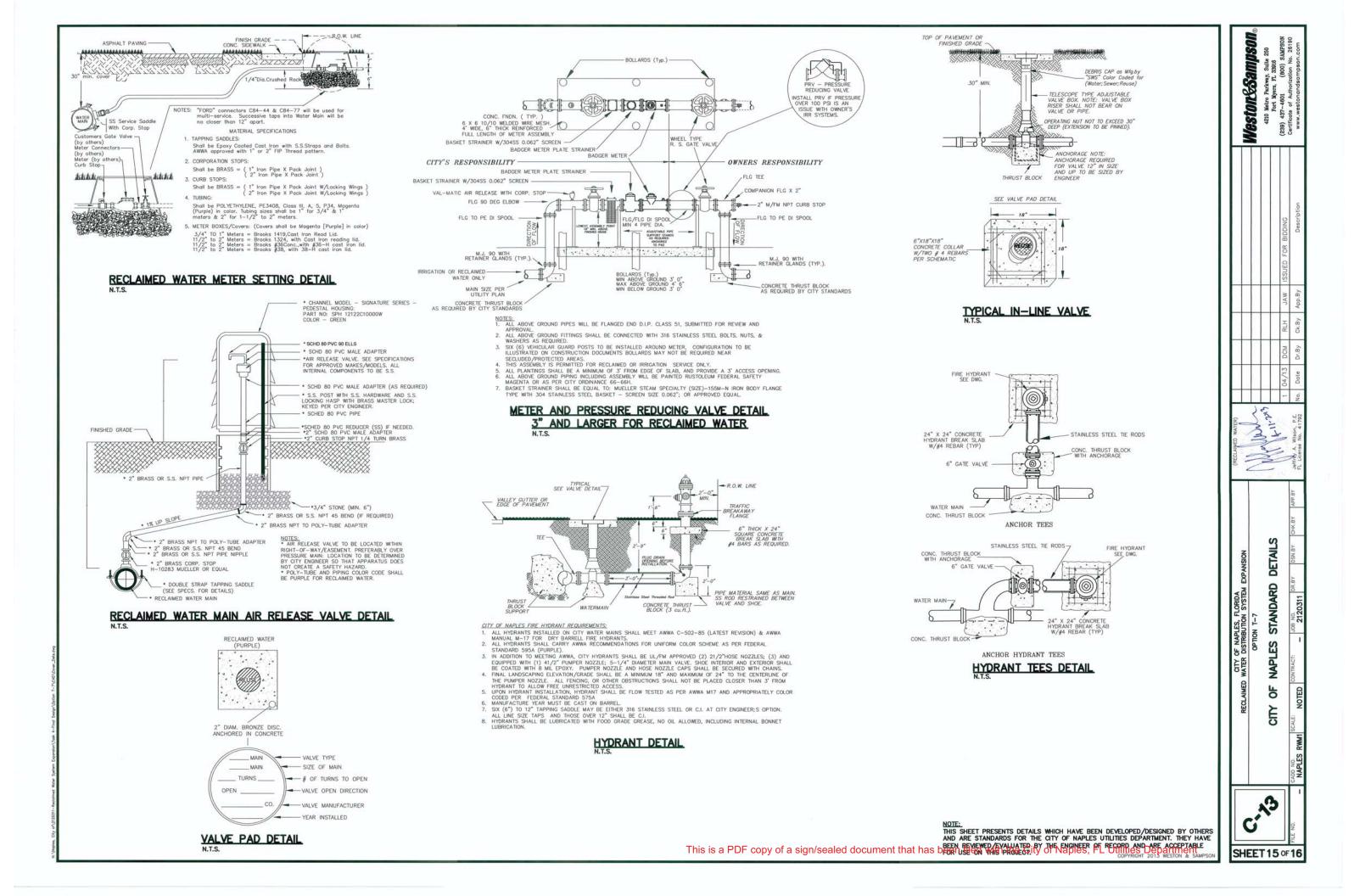
- CONSTRUCTION.
- HDD INSTALLATION NOTES:

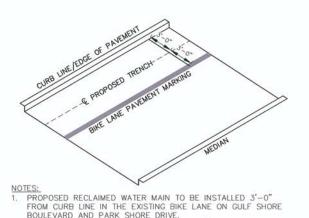


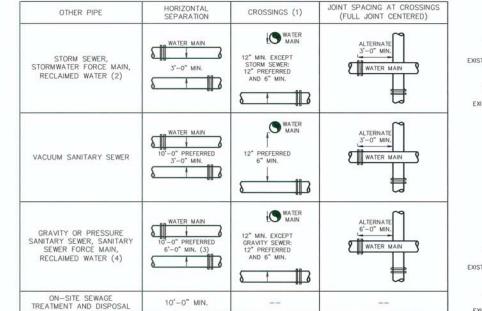












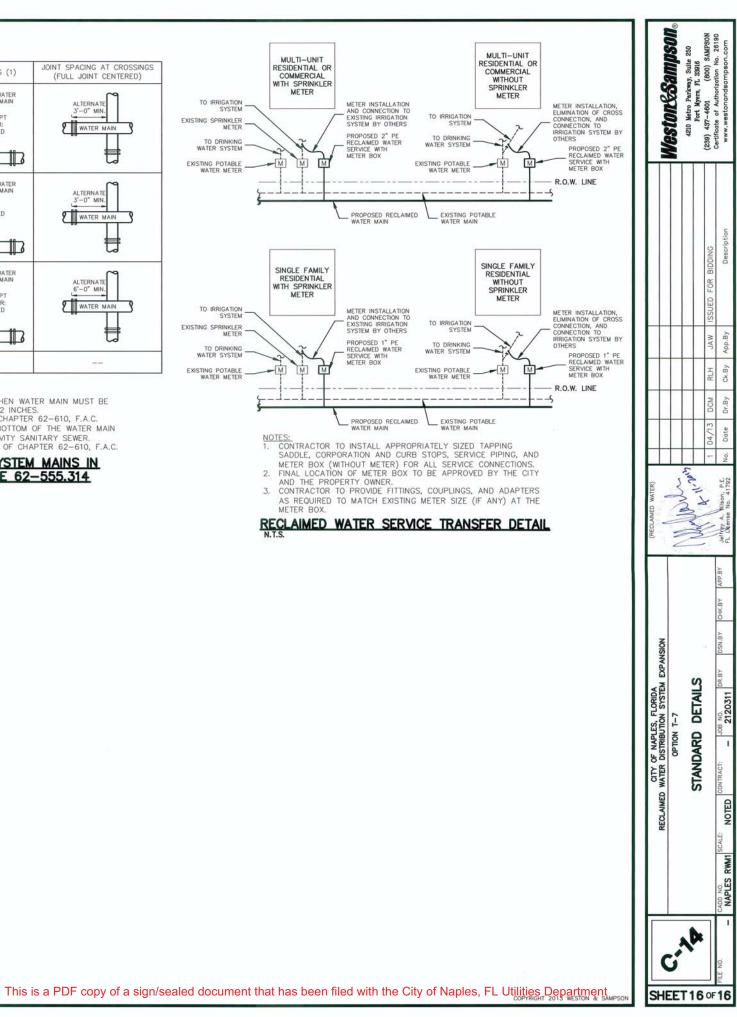
NOTES: 1. WATER MAIN SHALL CROSS ABOVE OTHER PIPE. WHEN WATER MAIN MUST BE BELOW OTHER PIPE, THE MINIMUM SEPARATION IS 12 INCHES. 2. RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62–610, F.A.C. 3. 3'-0" FOR GRAVITY SANITARY SEWER WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST 6" ABOVE THE TOP OF THE GRAVITY SANITARY SEWER. 4. DECHAPTER MATER NOT POLY AND FOR CHAPTER 62 CAS FAC

4. RECLAIMED WATER NOT REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C.

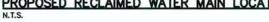
LOCATION OF PUBLIC WATER SYSTEM MAINS IN

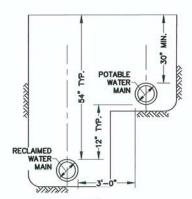
ACCORDANCE WITH F.A.C. RULE 62-555.314

NTS



2. SEE PAVEMENT RESTORATION DETAIL FOR PAVING LIMITS AND PAVEMENT PROFILE. PROPOSED RECLAIMED WATER MAIN LOCATION





RECLAIMED WATER MAIN PARALLEL TO POTABLE WATER MAIN

N.T.S.