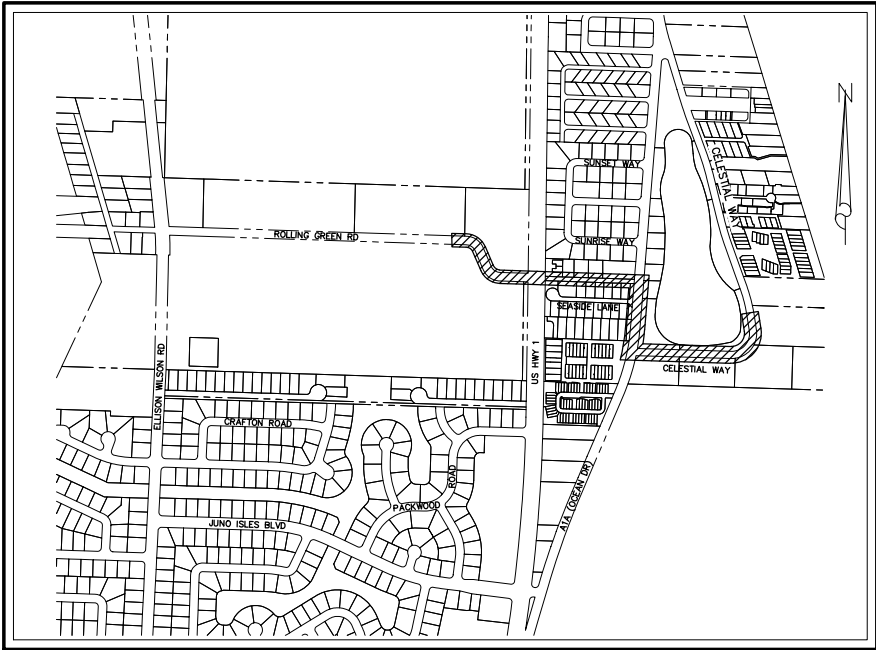


# LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT OLYMPUS DRIVE FORCE MAIN & LOW PRESSURE SEWER REPLACEMENT



PROJECT LIMITS

SEC. 28, TWP. 41 S, RNG. 43 E

**LOCATION MAP**  
NTS



## GOVERNING BOARD

CHAIRMAN	STEPHEN B. ROCKOFF
VICE CHAIRMAN	GORDON M. BOGGIE
TREASURER	HARVEY M. SILVERMAN
SECRETARY	JAMES D. SNYDER
ASST. SEC'Y/TREASURER	DR. MATT H. ROSTOCK

## BID SET NOVEMBER 2020

## DRAWING LIST

SHEET	DRAWING	TITLE
<b>GENERAL</b>		
1	G-1	TITLE SHEET, LOCATION MAP AND DRAWING LIST
2	G-2	SURVEY LEGEND AND GENERAL NOTES
3	G-3	HORIZONTAL CONTROL DETAIL
4	G-4	KEY MAP
<b>CIVIL</b>		
5	C-1	OLYMPUS DRIVE PLAN AND PROFILE - STA. 10+00 TO STA. 14+00
6	C-1A	ROLLING GREEN ROAD - 10" FM ABANDONMENT PLAN
7	C-2	OLYMPUS DRIVE PLAN - STA. 14+00 TO STA. 17+14
8	C-2A	OLYMPUS DRIVE PROFILE - STA. 14+00 TO STA. 17+14
9	C-3	STATE ROAD A1A PLAN AND PROFILE - STA. 100+00 TO STA. 103+00
10	C-4	STATE ROAD A1A PLAN AND PROFILE - STA. 103+00 TO STA. 106+00
11	C-5	CELESTIAL WAY PLAN AND PROFILE - STA. 20+00 TO STA. 24+00
12	C-6	CELESTIAL WAY PLAN AND PROFILE - STA. 24+00 TO STA. 28+00
13	C-7	CELESTIAL WAY PLAN AND PROFILE - STA. 28+00 TO STA. 30+00
<b>DETAILS</b>		
14	D-1	STANDARD DETAILS - SHEET 1
15	D-2	STANDARD DETAILS - SHEET 2
16	D-3	STANDARD DETAILS - SHEET 3
17	D-4	STANDARD DETAILS - SHEET 4
18	D-5	STANDARD DETAILS - SHEET 5
19	D-6	STANDARD DETAILS - SHEET 6

FOR INFORMATION REGARDING THIS PROJECT, CONTACT:

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No. 88881

(CIVIL)

TITLE SHEET, LOCATION MAP  
AND DRAWING LIST

SHEET: 1 of 19

DRAWING: G-1

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GENERAL NOTES

- ALL CONSTRUCTION AND MATERIALS SHALL CONFORM TO THE STANDARDS AND SPECIFICATIONS OF THE LOXAHATCHEE RIVER DISTRICT, PALM BEACH COUNTY, FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION, PALM BEACH COUNTY HEALTH DEPARTMENT, FLORIDA DEPARTMENT OF TRANSPORTATION, AND NATIONAL CODES WHERE APPLICABLE.
- ALL CONSTRUCTION SHALL BE DONE IN A SAFE MANNER, SPECIFICALLY, THE RULES AND REGULATIONS OF THE OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION AND THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES SHALL BE STRICTLY OBSERVED.
- ALL CONSTRUCTION SHALL CONFORM TO THE STANDARDS AND REQUIREMENTS OF THE AGENCIES HAVING JURISDICTION OVER THE R/W WHERE THE PROJECT IS CONSTRUCTED.
- CONTRACTOR SHALL PREPARE AND SUBMIT NOT PLANS TO PALM BEACH COUNTY, FDOT, TOWN OF JUNO BEACH & LOXAHATCHEE RIVER DISTRICT FOR REVIEW AND APPROVAL FOR WORK TO BE DONE WITHIN OR ADJACENT TO IMPROVED RIGHT-OF-WAY.
- CONTRACTOR SHALL MAINTAIN LOCAL TRAFFIC AT ALL TIMES DURING CONSTRUCTION AND SHALL BE REQUIRED TO PROVIDE ALL BARRICADES, LIGHTING, SIGNAGE AND FLAGMEN AS NECESSARY TO PROVIDE FOR THE SAFETY OF THE PUBLIC IN THE WORK AREA. THE CONTRACTOR SHALL SUBMIT A DETAILED TRAFFIC CONTROL PLAN FOR APPROVAL. THE TRAFFIC CONTROL PLAN SHALL BE SUBMITTED TO AND APPROVED BY THE PBC TRAFFIC DIVISION (Ms. GRACIELA McAUSLAND AT (561) 684-4030), FDOT, AND TOWN OF JUNO BEACH A MINIMUM OF 2 WEEKS PRIOR TO START OF CONSTRUCTION.
- CONTRACTOR SHALL MAINTAIN ACCESS TO PRIVATE PROPERTY AT ALL TIMES.
- LOCATIONS OF EXISTING FACILITIES AS SHOWN ON CONSTRUCTION DRAWINGS ARE APPROXIMATE AND ARE DRAWN FROM AVAILABLE RECORDS. THE ENGINEER ASSUMES NO RESPONSIBILITY FOR THE ACCURACY OF THE FACILITIES SHOWN NOR FOR ANY FACILITY NOT SHOWN. THE CONTRACTOR SHALL LOCATE OR EXPOSE ALL UTILITIES WITHIN THE PROPOSED WORK AREAS AND AT CRITICAL LOCATIONS TO VERIFY UTILITY LOCATIONS AND PIPE LAYING SCHEDULES PRIOR TO SUBMITTING SHOP DRAWINGS. THIS SHALL BE DONE WITHIN 30 DAYS AFTER NOTICE TO PROCEED. THE INFORMATION OBTAINED (ELEVATION, SEPARATION DISTANCE, PIPE MATERIAL AND SIZE, ETC.) SHALL BE MADE PART OF THE CONTRACTOR'S SUBMITTAL FOR ALL PIPING.
- CONTRACTOR SHALL OBTAIN THE SERVICES OF SUNSHINE STATE ONE CALL OF FLORIDA (811), INC. AS REQUIRED BY FLORIDA STATUTES. CONTRACTOR SHALL BE RESPONSIBLE FOR DAMAGE TO ANY EXISTING UTILITIES.
- FORCEMAINS ARE TO BE LAID WITHIN 0.2 FEET OF THE DESIGN PROFILE.
- COVER SHALL BE A MINIMUM OF 3.0 FEET (TYPICAL) FOR FORCEMAINS UNLESS OTHERWISE NOTED ON DRAWINGS.
- ALL DELETERIOUS MATERIAL SHALL BE PROPERLY DISPOSED OF BY THE CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- IF UPON EXCAVATION, AN EXISTING UTILITY IS FOUND TO BE IN CONFLICT WITH THE PROPOSED CONSTRUCTION OR TO BE OF A SIZE OR MATERIAL DIFFERENT FROM THAT SHOWN ON THE DRAWINGS, THE CONTRACTOR SHALL IMMEDIATELY NOTIFY THE ENGINEER.
- ALL OPEN TRENCHES AND HOLES ADJACENT TO ROADWAY OR WALKWAY SHALL BE PROPERLY MARKED AND BARRICADED TO ASSURE THE SAFETY OF BOTH VEHICULAR AND PEDESTRIAN TRAFFIC.
- NO TRENCHES OR HOLES NEAR WALKWAYS, IN ROADWAYS OR THEIR SHOULDERS ARE TO BE LEFT OPEN DURING NIGHTTIME HOURS WITHOUT EXPRESSED PERMISSION FROM THE AGENCY HAVING JURISDICTION OVER THE R/W.
- CONTRACTOR SHALL MAINTAIN ALL WORK WITHIN R/W AND EASEMENT LIMITS UNLESS OTHERWISE NOTED ON DRAWINGS.
- CONTRACTOR SHALL REPLACE ALL PAVEMENT MARKINGS REMOVED DURING CONSTRUCTION. ALL PROPOSED AND REPLACED PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
- EXISTING TRAFFIC SIGNS TO BE RESET PER FDOT STANDARDS.
- CONTRACTOR SHALL ADJUST ALL UTILITY CASTING INCLUDING SANITARY SEWER MANHOLE TOPS, INLETS, VALVE BOXES AND SIMILAR STRUCTURES AS REQUIRED TO MEET FINAL GRADES.
- CONTRACTOR SHALL PERFORM ALL WORK NECESSARY TO LOCATE, EXCAVATE AND PREPARE FOR CONNECTIONS TO THE EXISTING SYSTEMS ALL AS SHOWN ON THE DRAWINGS.
- STATIONS SHOWN ON THE DRAWINGS ARE STATIONS BASED ON THE ESTABLISHED BASELINE AND SHALL NOT BE CONSIDERED AS DISTANCES OR AS A MEASURE OF THE LINEAR FOOTAGE OF PIPE TO BE INSTALLED.
- THE CONTRACTOR SHALL SCHEDULE INSPECTIONS AND TESTS WITH THE DISTRICT, PALM BEACH COUNTY, FDOT, AND TOWN OF JUNO BEACH A MINIMUM OF 48 HOURS IN ADVANCE.
- CONTRACTOR SHALL NOT DISTURB EXISTING TOWN OF JUPITER (TOJ) WATER MAINS OR TOWN OF JUNO BEACH DRAINAGE FACILITIES WITHOUT THE PRESENCE OF A DISTRICT OR TOWN INSPECTOR. TOJ UTILITY SYSTEM VALVES AND APPURTENANCES MAY ONLY BE OPERATED BY TOJ PERSONNEL.
- SITE INFORMATION BASED ON A SURVEY PREPARED BY: BAXTER AND WOODMAN, INC.
- CLEARING AND GRUBBING SHALL INCLUDE REMOVAL OF ALL VEGETATION WITHIN RIGHT-OF-WAY AS REQUIRED TO CONSTRUCT THE REQUIRED IMPROVEMENTS.
- PROJECT SITE SAFETY:
  - THE ENGINEER/DISTRICT OR THEIR EMPLOYEES HAVE NO AUTHORITY TO EXERCISE ANY CONTROL OVER THE CONTRACTOR, ANY SUB-CONTRACTOR OR OTHER ENTITY OR THEIR EMPLOYEES IN CONNECTION WITH THEIR WORK OR ANY JOBSITE HEALTH OR SAFETY PRECAUTIONS.
  - THE CONTRACTOR IS SOLELY RESPONSIBLE FOR JOBSITE SAFETY, AND WARRANTS THAT THIS INTENT IS MADE EVIDENT BY THE AGREEMENT BETWEEN DISTRICT AND CONTRACTOR.
  - ALL EXISTING OVERHEAD AND UNDERGROUND UTILITIES SHOWN ON THESE DRAWINGS OR ENCOUNTERED THROUGH THE PROGRESSION OF WORK AT THIS PROJECT SITE ARE ASSUMED TO BE LIVE. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY PRECAUTIONS WHEN WORKING AROUND EXISTING OVERHEAD OR UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL COORDINATE AND EMPLOY THE SERVICES OF FPL TO SUPPORT ANY EXISTING POWER POLES WITHIN THE IMMEDIATE VICINITY OF TRENCHES.
- CONTRACTOR SHALL LIMIT THE CONSTRUCTION IMPACTS TO DRIVEWAYS AS SHOWN ON THE PLANS. THE COST OF THE SHEETING, SHORING, ETC. OF THE TRENCH SHALL BE INCLUDED IN THE COSTS OF SEWER PIPING BID ITEM(S) AS NECESSARY TO LIMIT TRENCH WIDTH.

GENERAL INFORMATION

1. AT&T TELEPHONE, FLORIDA POWER AND LIGHT, CABLE TV, GAS, ETC. ARE TAKEN FROM FIELD INSPECTIONS AND SKETCHES PROVIDED BY UTILITIES AND ARE SHOWN FOR THE CONVENIENCE OF THE CONTRACTOR ONLY. THE CONTRACTOR SHALL CONTACT ALL UTILITY OWNERS AND CONFIRM LOCATIONS OF UTILITIES NO LESS THAN 48 HOURS BEFORE BEGINNING CONSTRUCTION. THE CONTRACTOR SHALL ACCURATELY LOCATE AND UNCOVER ALL EXISTING UTILITIES BEFORE BEGINNING CONSTRUCTION WHERE CROSSING OR PARALLELING OF EXISTING UTILITIES OCCUR. ANY DAMAGE RESULTING FROM THE CONTRACTORS OPERATION SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.

2. ALL MATERIALS SHALL CONFORM TO LOXAHATCHEE RIVER DISTRICT CONSTRUCTION STANDARDS & TECHNICAL SPECIFICATIONS.

EROSION CONTROL

- ALL STORM SEWER INLET GRATES TO BE COVERED WITH FILTER FABRIC DURING CONSTRUCTION.
- CUT AND FILL SLOPES TO BE CONSTRUCTED IN A MANNER THAT WILL MINIMIZE EROSION. SILT FENCES TO BE USED WHERE NECESSARY.
- CONSTRUCTION VEHICLE ACCESS ROUTES SHALL BE SWEEPED CLEAN OF SEDIMENT, CONCRETE AND OTHER CONSTRUCTION MATERIALS AS NEEDED.
- ALL BERMS, DIKES AND SPOIL PILES SUBJECT TO EROSION MUST BE STABILIZED OR CONTAINED TO PREVENT EROSION AND RUNOFF FROM THE PROJECT.
- THE QUALITY OF THE DISCHARGE WATER FROM DEWATERING AND CONSTRUCTIONS ACTIVITIES SHALL MEET STATE WATER QUALITY STANDARDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PREPARATION AND PERMITTING OF A STORMWATER POLLUTION PREVENTION PLAN FOR THE PROJECT.

SURVEY NOTES:

- THIS SKETCH OF A TOPOGRAPHIC SURVEY WAS PREPARED IN ACCORDANCE WITH THE STANDARDS OF PRACTICE FOR SURVEYING ESTABLISHED BY THE BOARD OF PROFESSIONAL SURVEYORS AND MAPPERS IN CHAPTER 5J-17, FLORIDA ADMINISTRATIVE CODES, PURSUANT TO SECTION 472.027, FLORIDA STATUTES.
- THIS SURVEY IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER.
- A SEARCH OF THE PUBLIC RECORDS FOR OWNERSHIP, EASEMENTS, RIGHTS-OF-WAY, OR OTHER MATTERS OF RECORD WAS NOT PERFORMED BY BAXTER & WOODMAN, INC. THERE MAY BE ADDITIONAL INFORMATION RECORDED IN THE PUBLIC RECORDS THAT IS NOT SHOWN HEREON. FOR FURTHER INFORMATION, CONTACT A QUALIFIED TITLE COMPANY OR CONSULT THE PUBLIC RECORDS OF PALM BEACH COUNTY, FLORIDA
- THE BEARINGS SHOWN HEREON ARE BASED ON A BEARING BETWEEN CONTROL POINTS CP6 AND CP5, BEING, S 82°46'04" E
- THE HORIZONTAL COORDINATES SHOWN HEREON ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM (EAST ZONE), NORTH AMERICAN DATUM 1983/1990 ADJUSTMENT (N.A.D. 83/90). THE COORDINATES FOR EACH CONTROL POINT WERE ESTABLISHED BY UTILIZING GPS OBSERVATIONS.
- THE ELEVATIONS SHOWN HEREON ARE BASED ON NATIONAL GEODETIC VERTICAL DATUM OF 1929 (NGVD 29).  
BENCHMARK :  
PBC BM "APACHE" ELEVATION 4.52  
  
CONVERSION NAVD 88 DATUM TO NGVD 29 DATUM = + 1.51'
- CERTAIN FEATURES ARE REPRESENTED BY THE SYMBOLS REFLECTED IN THIS MAP. THE LEGEND OF FEATURES MAY HAVE BEEN ENLARGED FOR CLARITY AND MAY NOT REPRESENT THE ACTUAL SHAPE OR SIZE OF THE FEATURE. THE SYMBOLS HAVE BEEN PLOTTED AT THE APPROXIMATE CENTER OF THE FEATURE BASED UPON THE FIELD LOCATION.
- THIS SKETCH IS NOT A BOUNDARY SURVEY.
- PLAT, LOT AND RIGHT-OF-WAY LINES SHOWN HEREON ARE FOR GRAPHICAL PURPOSES ONLY AND BASED ON PALM BEACH COUNTY GIS "MYGEONAV" BASE MAP LAYER. PLAT, LOT AND RIGHT-OF-WAY LINES SHOWN HEREON MAY VARY FROM ACTUAL OCCUPATION LIMITS ON THE GROUND.
- THIS SKETCH IS INTENDED TO BE DISPLAYED AT A HORIZONTAL SCALE OF 1 INCH = 20 FEET.
- THE HORIZONTAL ACCURACY FOR WELL DEFINED IMPROVEMENTS DEPICTED ON THIS SKETCH IS ONE-TENTH (0.1' ±) OF A FOOT, PLUS OR MINUS. THE VERTICAL (ELEVATIONS) ACCURACY FOR WELL DEFINED IMPROVEMENTS, FEATURES, AND SURFACES DEPICTED ON THIS SURVEY IS TWO-TENTHS (0.2' ±) OF A FOOT, PLUS OR MINUS.
- TREES, HEDGES, GROUND COVER, AND OTHER LANDSCAPE FEATURES ARE NOT SHOWN HEREON, UNLESS OTHERWISE NOTED.
- IRRIGATION FEATURES, SUCH AS SPRINKLERS, ARE NOT SHOWN HEREON.
- FENCES AND WALL DIMENSIONS ARE APPROXIMATE. THE SURVEYOR DID NOT DETERMINE OWNERSHIP OF FENCES AND WALLS.
- SUBSURFACE FEATURES ARE NOT SHOWN HEREON. THIS SITE COULD HAVE UNDERGROUND INSTALLATIONS THAT ARE NOT SHOWN HEREON. BEFORE DESIGN, CONSTRUCTION, OR EXCAVATION CONTACT 811 AND/OR THE APPROPRIATE UTILITY COMPANIES FOR FIELD VERIFICATION OF UTILITIES.
- THE EXTERIOR BUILDING DIMENSIONS SHOWN HEREON REPRESENT THE OVERALL SIZE OF THE BUILDING (FOOTPRINT). SUBSURFACE BUILDING FOOTINGS AND SUPPORTS WERE NOT LOCATED. CERTAIN ARCHITECTURAL FEATURES MAY NOT BE SHOWN ON THE SURVEY. ROOF OVERHANGS ARE NOT SHOWN UNLESS OTHERWISE NOTED. BUILDING DIMENSIONS AND BUILDING SETBACKS ARE SHOWN ROUNDED TO THE NEAREST ONE-TENTH (0.1 FEET ) OF A FOOT. BEFORE DESIGN OF IMPROVEMENTS CRITICAL DIMENSIONS SHOWN BE CONFIRMED.
- THE DIMENSIONS SHOWN HEREON ARE BASED UPON U.S. SURVEY FEET AND FRACTIONAL PARTS THEREOF.
- AREA COMPUTATIONS, WHEN SHOWN IN ACRES, ARE ROUNDED TO THE NEAREST ONE-HUNDRETH OF AN ACRE, AND WHEN SHOWN IN SQUARE FEET ARE ROUNDED TO THE NEAREST SQUARE FOOT. THE AREA FIGURES SHOWN HEREON SHOULD NOT BE UTILIZED AS THE BASIS OF PURCHASE PRICE FOR A REAL ESTATE CLOSING, WITHOUT PRIOR VERIFICATION OF THE AREA FIGURES, IN WRITING FROM THE SIGNING SURVEYOR.
- THE SURVEYOR DID NOT INSPECT THIS PROPERTY FOR ENVIRONMENTAL HAZARDS.
- THE INFORMATION DEPICTED ON THIS SKETCH OF SURVEY REPRESENTS THE RESULTS OF A FIELD SURVEY ON THE DATE INDICATED ON THE BORDER OF THE DRAWING AND CAN ONLY BE CONSIDERED VALID FOR THIS DATE AND INDICATES THE GENERAL CONDITIONS EXISTING AT THE TIME OF THE FIELD SURVEY.
- THIS SKETCH OF SURVEY CANNOT BE RELIED UPON BY PERSONS OR ENTITIES OTHER THAN THOSE PERSONS OR ENTITIES CERTIFIED TO HEREON. ADDITIONS OR DELETIONS TO THIS SURVEY AND/OR REPORTS BY PEOPLE OR PERSONS OTHER THAN THE SIGNING PARTIES ARE PROHIBITED WITHOUT PRIOR WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
- THE INFORMATION CONTAINED IN THIS DOCUMENT WAS PREPARED BY BAXTER & WOODMAN, INC. (B&W). B&W HAS TAKEN PRECAUTIONS TO ENSURE THE ACCURACY OF THIS DOCUMENT AND THE DATA REFLECTED HEREIN. B&W CANNOT NOT GUARANTEE THAT ALTERATIONS AND/OR MODIFICATIONS WILL NOT BE MADE TO THE DATA CONTAINED IN THIS DOCUMENT BY OTHERS AFTER IT LEAVES OUR POSSESSION. THIS DOCUMENT MUST BE COMPARED TO THE ORIGINAL HARD COPY (WHICH BEARS THE RAISED SURVEYOR'S CERTIFICATION SEAL) TO ENSURE THE ACCURACY OF THE INFORMATION CONTAINED HEREON AND TO FURTHER ENSURE THAT ALTERATIONS AND/OR MODIFICATIONS HAVE NOT BEEN MADE. B&W MAKES NO WARRANTIES, EXPRESSED OR IMPLIED, CONCERNING THE ACCURACY OF THE INFORMATION CONTAINED IN THIS OR ANY DOCUMENT TRANSMITTED OR REVIEWED BY COMPUTER OR OTHER ELECTRONIC MEANS. CONTACT B&W FOR VERIFICATION OF ACCURACY.

DESCRIPTION:

A PORTION OF SECTION 28, TOWNSHIP 41 SOUTH, RANGE 43 EAST, IN PALM BEACH COUNTY, STATE OF FLORIDA.

SURVEY ABBREVIATIONS:

ASPH = ASPHALT	FF = FINISH FLOOR ELEVATION	R/C = ROD AND CAP
BPP = BLACK PLASTIC PIPE	FND = FOUND	RCP = REINFORCED CONCRETE PIPE
BST = BELL SOUTH TELEPHONE	FOC = FIBER OPTIC	R/W = RIGHT OF WAY
BT = BURIED TELEPHONE	HH = HAND HOLE	RWM = RIGHT OF WAY MAP
B = SURVEY BASELINE	HDPE = HIGH DENSITY POLYETHYLENE PIPE	RLS = REGISTERED LAND SURVEYOR
CATV = CABLE TELEVISION	INV = INVERT	SEC = SECTION
C/L = CENTERLINE	IRC = IRON ROD & CAP	STA = STATION
C = CALCULATED	L = LENGTH	TC = TELE COMMUNICATION
CFT = CALCULATED FROM FIELD TRAVERSE	LSA = LANDSCAPE AREA	TIITF = TRUSTEES OF THE INTERNAL IMPROVEMENTS TRUST FUND
CLF = CHAIN LINK FENCE	LDWD = LAKE WORTH DRAINAGE DISTRICT	TON = TOP OF NUT
CLP = CONCRETE LIGHT POLE	MES = MITERED END SECTION	TOP = TOP OF PIPE
CMP = CORRUGATED METAL PIPE	MP = METAL PIPE	TOW = TOP OF WALL
CONC = CONCRETE	N/A = NOT ACCESSIBLE	UE = UTILITY EASEMENT
CP = CONCRETE PIPE	N/D = NAIL AND DISK	UNK = UNKNOWN
D = CENTRAL ANGLE	OHW = OVERHEAD WIRE	VERT = VERTICAL
DC = DEPRESSED CURB	ORB = OFFICIAL RECORD BOOK	VG = VALLEY GUTTER
DIP = DUCTILE IRON PIPE	P.B. = PLAT BOOK	VCP = VITRIFIED CLAY PIPE
DEP = DEPRESSED (CURB)	P.B.C.R. = PALM BEACH COUNTY RECORDS	
EL = ELEVATION	PG. = PAGE	
EOP = EDGE OF PAVEMENT	PP = PLASTIC PIPE	
EOW = EDGE OF WATER	PK = PARKER-KALON BRAND	
FDOT = FLORIDA DEPARTMENT OF TRANSPORTATION	PRM = PERMANENT REFERENCE MARKER	
FPL = FLORIDA POWER AND LIGHT	PVC = POLYVINYL CHLORIDE	
	R = RADIUS	

SURVEY SYMBOL LEGEND:

	ELECTRIC OUTLET		CATCH BASIN		AIR RELEASE VALVE
	BACK FLOW PREVENTER		= RED FLAG		BELLSOUTH MANHOLE
	WATER METER		= WHITE FLAG		FPL MANHOLE
	RECLAIM WATER METER		= BLUE FLAG		UNKNOWN TYPE MANHOLE
	IRRIGATION VALVE		= YELLOW FLAG		SANITARY MANHOLE
	SEWER VALVE		= ORANGE FLAG		STORM DRAINAGE MANHOLE
	WATER VALVE		= GREEN FLAG		LIMITS OF LANDSCAPING
	RECLAIMED WATER VALVE		—BPM— BLUE PAINT MARKS		LIMITS OF TREE CANOPY
	SPIGOT		—RPM— RED PAINT MARKS		BUSH/HEDGE
	SIGN		—GPM— GREEN PAINT MARKS		CLEAN OUT
	OVERHEAD UTILITY WIRE		—OPM— ORANGE PAINT MARKS		GUY WIRE ANCHOR
	EXISTING ELEVATION		—PPM— PURPLE PAINT MARKS		SITE BENCHMARK
	FIRE HYDRANT		—YPM— YELLOW PAINT MARKS		RIGHT-OF-WAY LINE
	WOOD POWER POLE		—WPM— WHITE PAINT MARKS		SWALE
	CONCRETE POWER POLE		SPRINKLER HEAD		GUARD RAIL
	GROUND LIGHT		MAILBOX		DECORATIVE LIGHT POST
	WOOD POLE STREET LIGHT		CONCRETE UTILITY POLE		CONCRETE LIGHT POST
	CONCRETE POLE STREET LIGHT		WOOD GUIDE POLE		CONCRETE LIGHT POLE
	FIBER OPTIC MARKER		CONCRETE SIGNAL LIGHT POLE		LIGHT POST
	ELECTRIC METER		TRASH CAN		YARD DRAIN
	ELECTRIC HANDHOLE		MONITORING WELL		GAS LID
	UNKNOWN HANDHOLE		ELECTRICAL PANEL		UNDERGROUND GAS MARKER
	TELEPHONE HANDHOLE		TRAFFIC HANDHOLE		TRAFFIC SIGNAL BOX
	FIBER OPTIC HANDHOLE		CATV CABLE TV RISER BOX		KEY PAD
	ELECTRIC BOX		UNK UNKNOWN RISER BOX		TESTHOLE (SUE)
	IRRIGATION CONTROL VALVE IN CONC. BOX		FO FIBER OPTIC RISER BOX		
	PARKING METER		ATT AT&T PHONE RISER		

SURVEY TREE LEGEND:

00°  - ACACIA	00°  - UNKNOWN	00°  - CITRUS	00°  - CYPRESS
00°  - PALM SPECIES	00°  - ROYAL POINCIANA	00°  - CACTUS	00°  - BLACK OLIVE
00°  - BANANA	00°  - MAPLE	00°  - MANGO	00°  - GUMBO-LIMBO
00°  - FICUS	00°  - MAHOGANY	- HEDGE	00°  - PINE
00°  - SEAGRAPE	00°  - OAK	00°  - BUSH	

NOTE: VERIFICATION OF TREE SPECIES SHOULD BE CONDUCTED BY A PROFESSIONAL ENGAGED IN THE FIELD OF NATURAL SCIENCE.

NO.	DATE	ISSUED FOR	APRV'D BY	DESIGNED: C.K.M.
				DRAWN: D.D.P.
				CHECKED: S.J.P.
				APPROVED: M.R.T.

COURTNEY K. MARSHALL, P.E.  
No. 88881

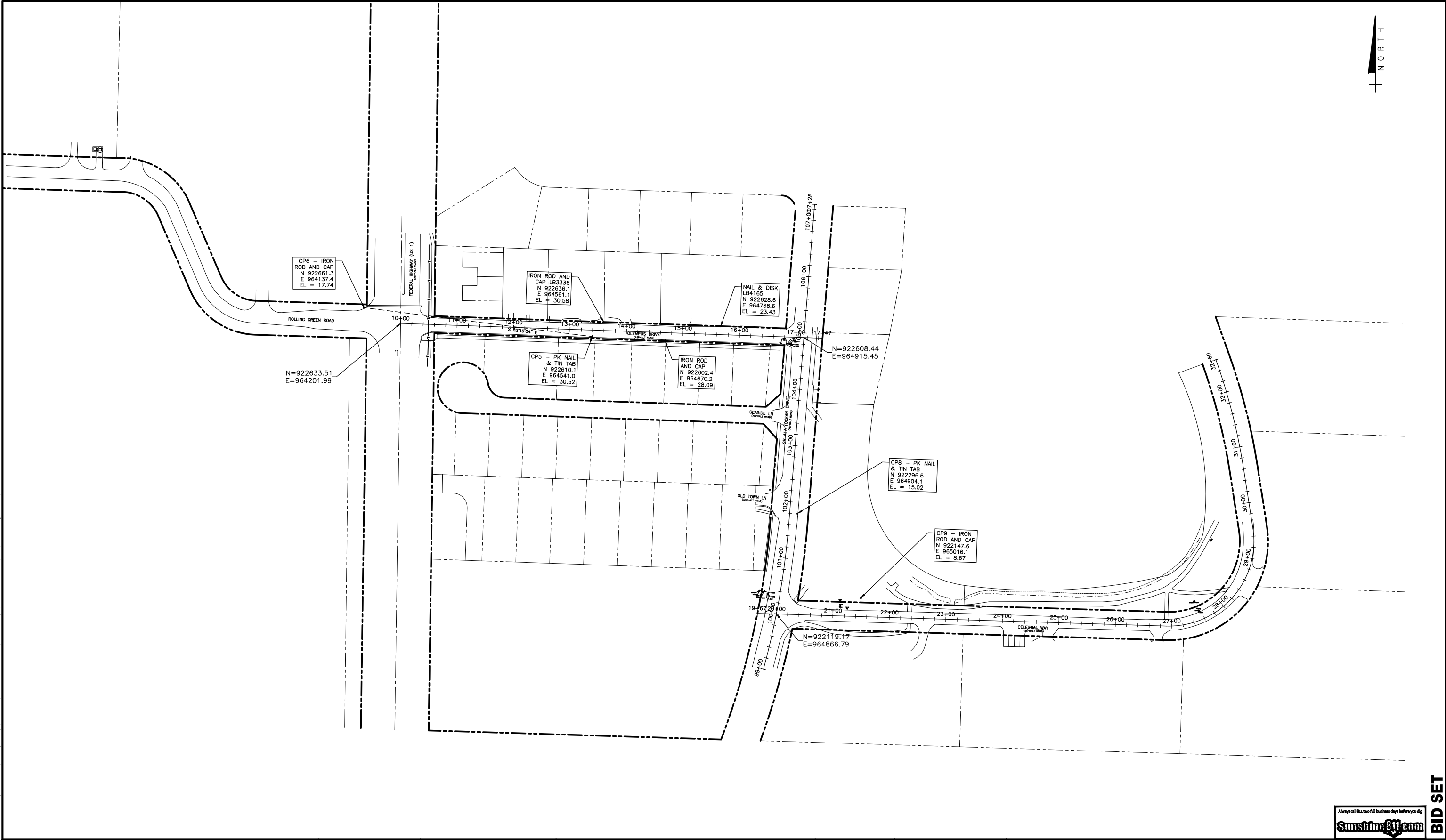
477 S. Rosemary Avenue, Suite 330, West Palm Beach, Florida 33401  
Phone: 561-655-6175 • Fax: 561-655-6179  
www.baxterwoodman.com EB-31795

VERIFY SCALE
BAR IS ONE INCH ON FULL SIZE (22x34) ORIGINAL DRAWING. ADJUST SCALES AS NECESSARY.

ENGINEER NO.: 191515	LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT
CLIENT PROJECT NO.: _____	OLYMPUS DRIVE FORCE MAIN & LOW PRESSURE SEWER REPLACEMENT
CAD REF.:191515G02.DWG	SURVEY LEGEND AND GENERAL NOTES

Always call this two full business days before you dig 	BID SET
DATE: NOVEMBER 2020	
SHEET: 2 of 19	
DRAWING: G-2	

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NO.	DATE	ISSUED FOR	APRV'D BY

DESIGNED:	C.K.M.
DRAWN:	D.D.P.
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APPROVED:	M.R.T.

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ENGINEER NO.: 191515  
CLIENT  
PROJECT NO.:  
CAD REF.:191515G03.DWG

LOXAHATCHEE RIVER  
ENVIRONMENTAL CONTROL DISTRICT  
OLYMPUS DRIVE FORCE MAIN & LOW PRESSURE SEWER REPLACEMENT

HORIZONTAL CONTROL DETAIL

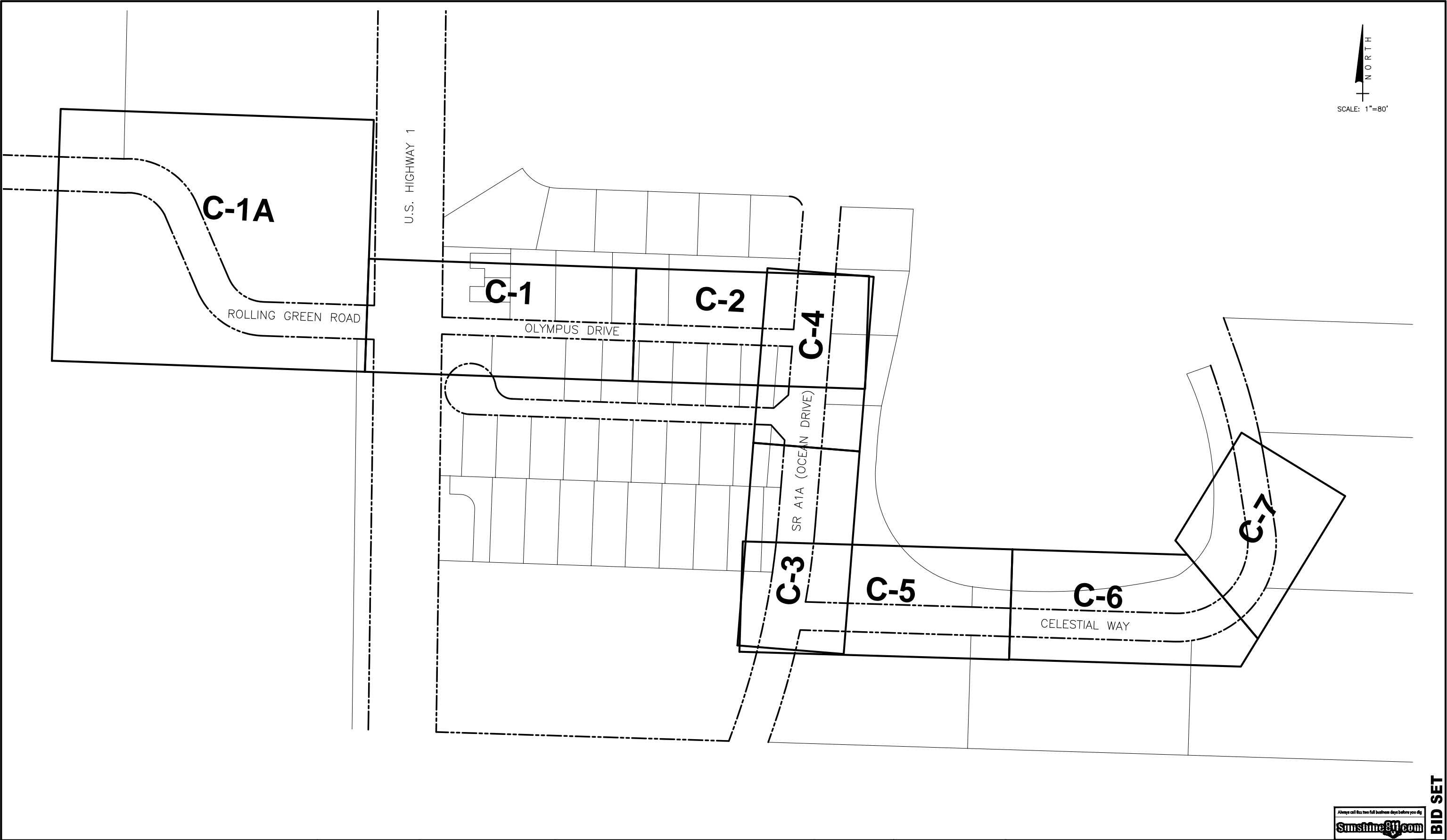
DATE:	NOVEMBER 2020
SHEET:	3 of 19
DRAWING:	G-3

Always call 800 two full business days before you dig

BID SET



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NO.	DATE	ISSUED FOR	APRV'D BY

DESIGNED:	C.K.M.
DRAWN:	D.D.P.
CHECKED:	S.J.P.
APPROVED:	M.R.T.

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VERIFY SCALE

1"

BAR IS ONE INCH ON FULL SIZE (22x34) ORIGINAL DRAWING. ADJUST SCALES AS NECESSARY.

ENGINEER NO.: 191515

CLIENT PROJECT NO.: \_\_\_\_\_

CAD REF.:191515G04.DWG

LOXAHATCHEE RIVER  
ENVIRONMENTAL CONTROL DISTRICT  
OLYMPUS DRIVE FORCE MAIN & LOW PRESSURE SEWER REPLACEMENT

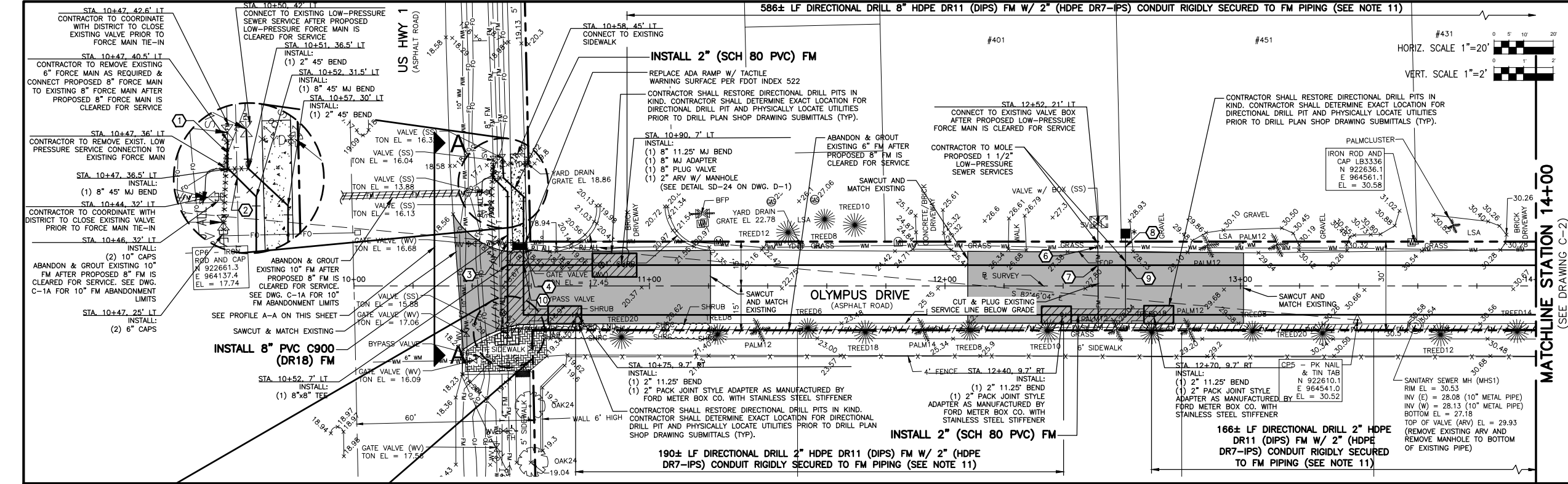
KEY MAP

Always call 800 two full business days before you dig

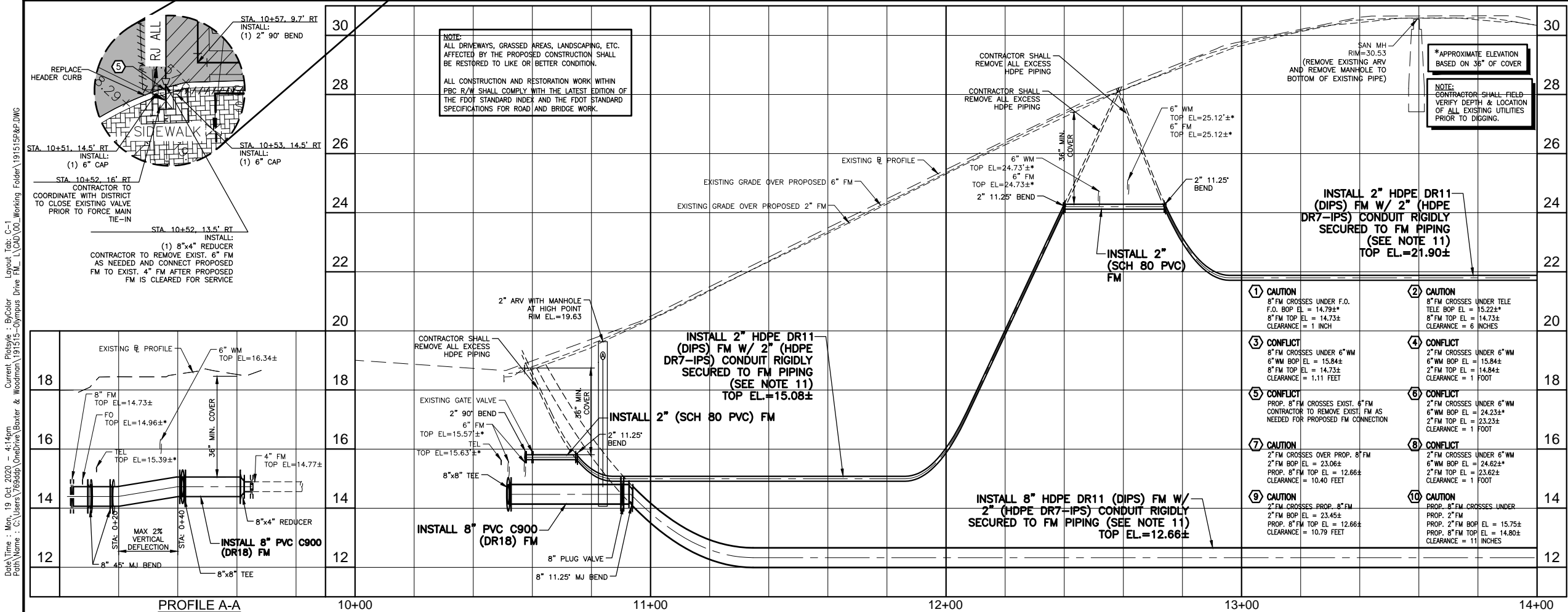
DATE:	NOVEMBER 2020
SHEET:	4 of 19
DRAWING:	G-4

BID SET





- NOTES:**
- CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UTILITY CROSSINGS, INCLUDING PARALLELING OF UTILITIES, PRIOR TO CONSTRUCTION OF PROPOSED SANITARY SEWERS, FORCE MAINS AND ROADWAYS.
  - IRRIGATION SYSTEMS NOT SHOWN, BUT DO EXIST THROUGHOUT PROJECT AREA. CONTRACTOR SHALL REPLACE ALL DAMAGED IRRIGATION PIPING, HEADS AND CONTROL LINES IN KIND, SO THAT SYSTEM PROVIDES ORIGINAL COVERAGE. ZONES TO BE CAPPED OFF AT CONSTRUCTION LINE. BALANCE OF IRRIGATION ZONES TO REMAIN ACTIVE AND MAINTAINED.
  - ALL FORCE MAIN FITTINGS SHALL HAVE RESTRAINED JOINTS. SEE STANDARD DETAIL DRAWING D-2 FOR MECHANICAL THRUST RESTRAINT - MINIMUM PIPE LENGTHS DETAIL.
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**LEGEND**

- PROPOSED 1.5" MILL AND OVERLAY (SP 12.5)
- OPEN CUT PAVEMENT REPAIR
- PROPOSED CONCRETE SIDEWALK REPLACEMENT (4" THICK)
- BRICK SIDEWALK REPLACEMENT
- ABANDON EXISTING FM (GROUT)
- REMOVE EXISTING FM
- SOIL BORING LOCATION
- SOFT DIG LOCATION
- CONFLICT DATA
- PROPOSED 1 1/2" LOW PRESSURE SEWER SERVICE LINE AND VALVE BOX

**\* ACTUAL LOCATION SHALL BE FIELD VERIFIED BY CONTRACTOR AND DISTRICT STAFF PRIOR TO CONSTRUCTION**

**NOTE:**  
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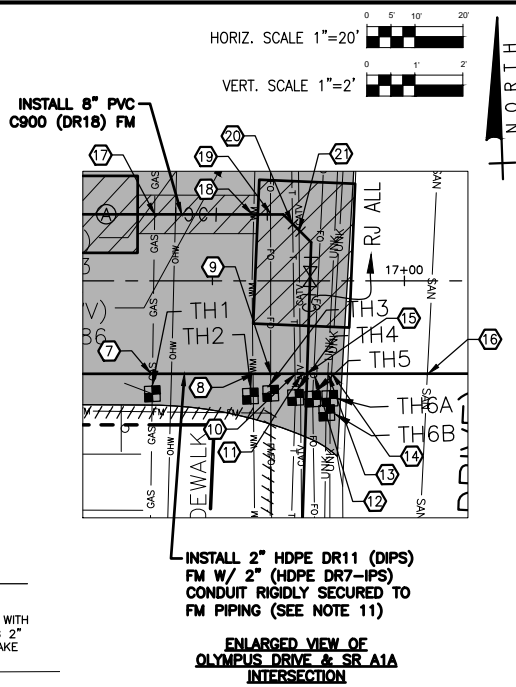
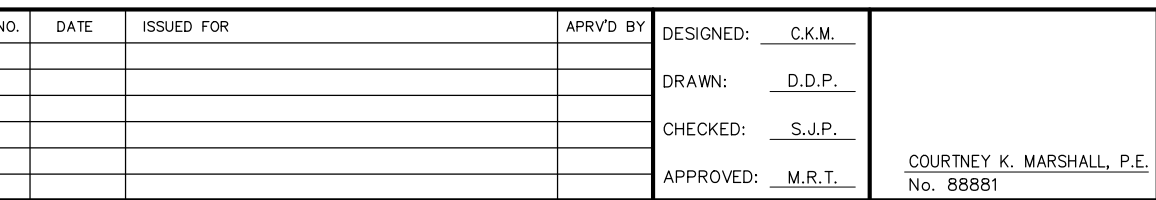
**KEY MAP**











**BID SET**





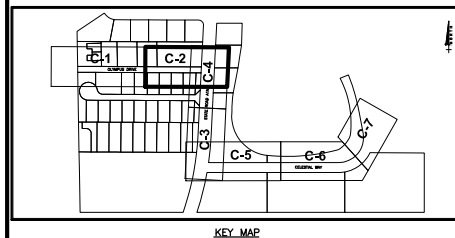




- | <b>LEGEND</b>   |   |
|---|---|
|        | PROPOSED 1.5" MILL AND OVERLAY (SP 12.5)                      |
|        | OPEN CUT PAVEMENT REPAIR                                      |
|        | PROPOSED CONCRETE SIDEWALK REPLACEMENT (4" THICK)             |
|        | BRICK SIDEWALK REPLACEMENT                                    |
|        | ABANDON EXISTING FM (GROUT)                                   |
|        | REMOVE EXISTING FM  |
| SB-1   | SOIL BORING LOCATION  |
| TH#1  | SOFT DIG LOCATION   |
|      | CONFLICT DATA   |
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DATE: NOVEMBER 2020

SHEET: 7 of 19

DRAWING: C-2

<b>TH #1</b> 4" (PE) GAS COVER=4.40'± T.O.P.=12.15±	<b>TH #2</b> 6" (CI) WATER COVER=2.74'± T.O.P.=13.31±	<b>TH #3</b> 4" (AC) FO COVER=2.52'± T.O.P.=13.44±	<b>TH #4</b> 4" (PVC) TEL COVER=2.82'± T.O.P.=13.03±
<b>TH #5</b> 2" (PVC) FO COVER=5.20'± T.O.P.=10.60±	<b>TH #6A</b> 4" (CI) UNKNOWN COVER=2.58'± T.O.P.=13.18±	<b>TH #6B</b> 2" (CI) UNKNOWN COVER=2.10'± T.O.P.=13.65±	

**NOTE:**  
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Consulting Engineers

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VERIFY SCALE

1"

BAR IS ONE INCH  
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SCALES AS  
NECESSARY.

ENGINEER NO.: 191515

CLIENT  
PROJECT NO.:

CAD REF.:191515P&P.DWG

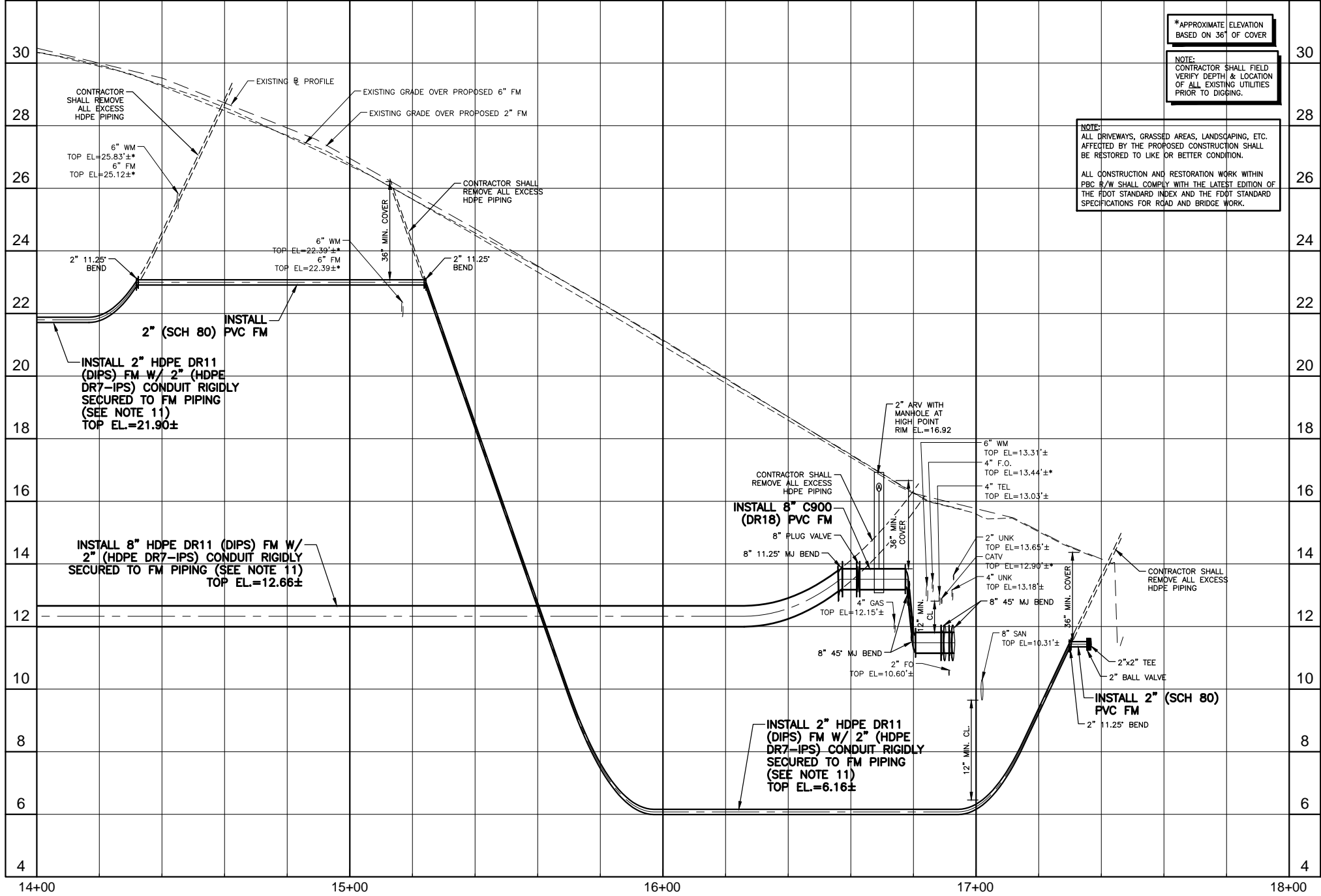
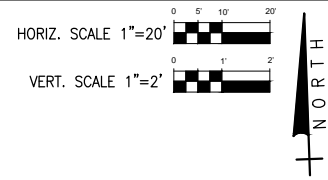
LOXAHATCHEE RIVER  
ENVIRONMENTAL CONTROL DISTRICT  
OLYMPUS DRIVE FORCE MAIN & LOW PRESSURE SEWER REPLACEMENT

OLYMPUS DRIVE - PLAN  
STA. 14+00 TO STA. 17+14

## BID SET



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Layout Tab: C-2A  
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**KEY MAP**

Always call 800-222-8888 before you dig

**BID SET**

**Smashline**

NO.	DATE	ISSUED FOR	APRV'D BY	DESIGNED: C.K.M.
				DRAWN: D.D.P.
				CHECKED: S.J.P.
				APPROVED: M.R.T.

COURTNEY K. MARSHALL, P.E.  
No. 88881

**BAXTER & WOODMAN**  
Consulting Engineers

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VERIFY SCALE  
1"  
BAR IS ONE INCH ON FULL SIZE (22x34) ORIGINAL DRAWING. ADJUST SCALES AS NECESSARY.

ENGINEER NO.: 191515  
CLIENT  
PROJECT NO.:  
CAD REF.:191515P&P.DWG

LOXAHATCHEE RIVER  
ENVIRONMENTAL CONTROL DISTRICT  
OLYMPUS DRIVE FORCE MAIN & LOW PRESSURE SEWER REPLACEMENT

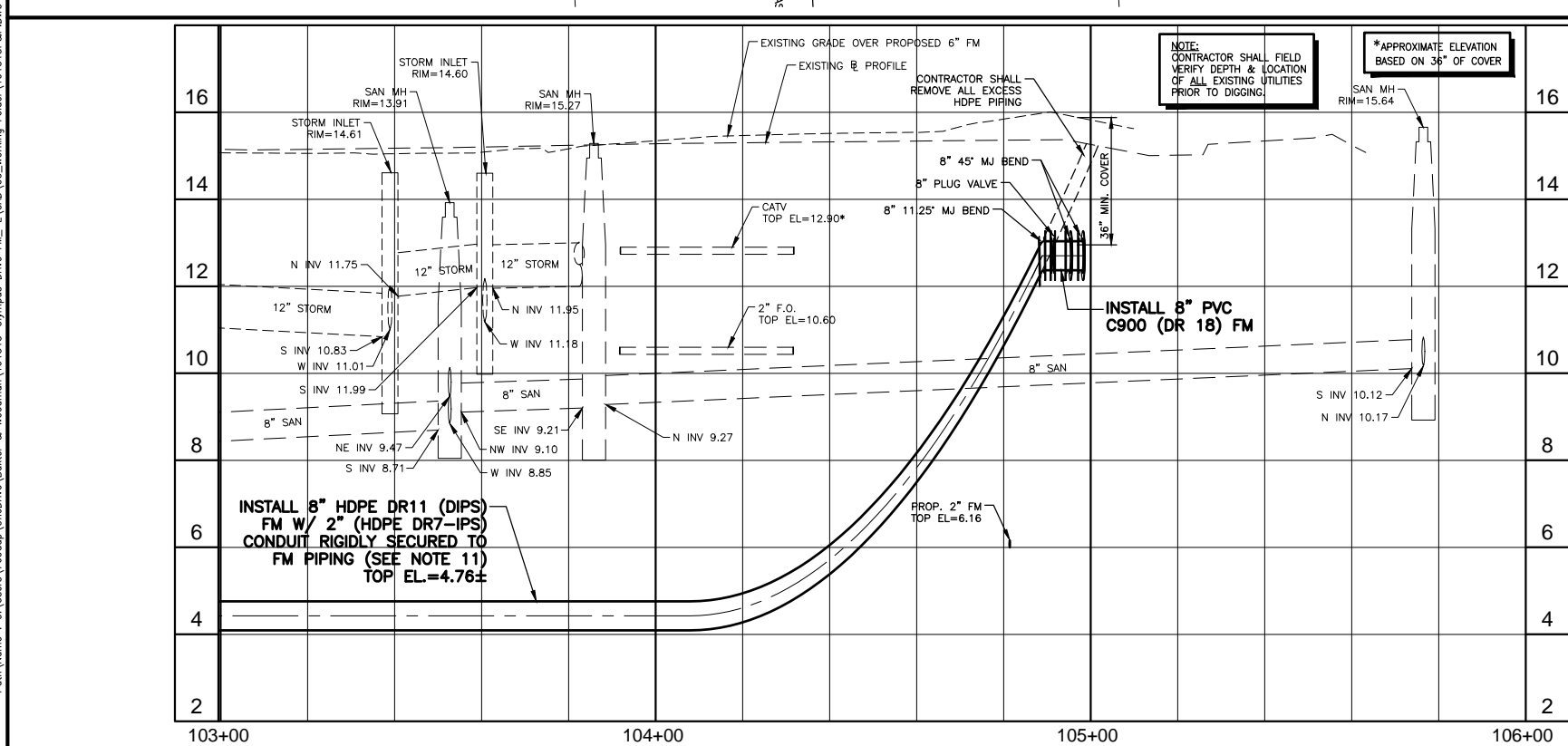
OLYMPUS DRIVE - PROFILE  
STA. 14+00 TO STA. 17+14

DATE: NOVEMBER 2020  
SHEET: 8 of 19  
DRAWING: C-2A





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NO.	DATE	ISSUED FOR	APR'D BY
		DESIGNED: C.K.M.	
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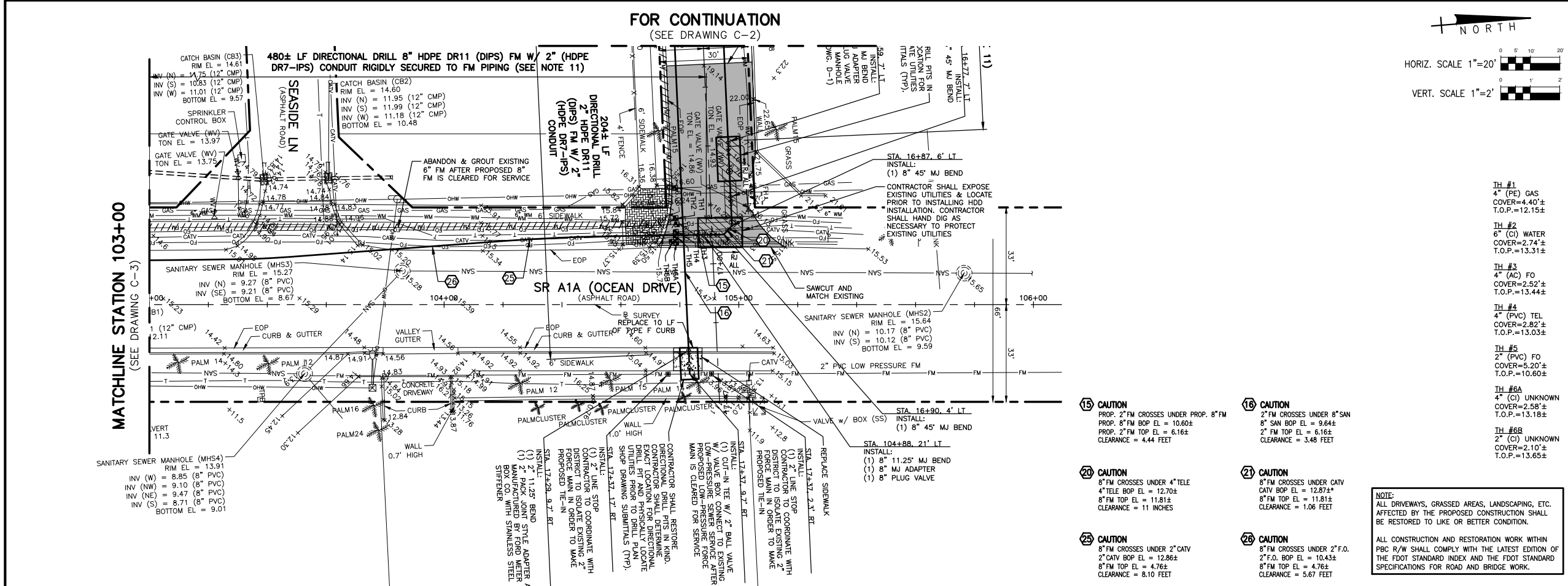
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VERIFY SCALE  
1" = 20'  
BAR IS ONE INCH ON FULL SIZE (22x34) ORIGINAL DRAWING. ADJUST SCALES AS NECESSARY.

ENGINEER NO.: 191515  
CLIENT  
PROJECT NO.:  
CAD REF.:191515P&P.DWG

LOXAHATCHEE RIVER  
ENVIRONMENTAL CONTROL DISTRICT  
OLYMPUS DRIVE FORCE MAIN & LOW PRESSURE SEWER REPLACEMENT  
STATE ROAD A1A  
PLAN AND PROFILE  
STA. 103+00 TO STA. 106+00

DATE: NOVEMBER 2020  
SHEET: 10 of 19  
DRAWING: C-4



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**KEY MAP**

Always call this two full business days before you dig  
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**TH #1**  
4" (PE) GAS  
COVER=4.40'±  
T.O.P.=12.15±

**TH #2**  
6" (CI) WATER  
COVER=2.74'±  
T.O.P.=13.31±

**TH #3**  
4" (AC) FO  
COVER=2.52'±  
T.O.P.=13.44±

**TH #4**  
4" (PVC) TEL  
COVER=2.82'±  
T.O.P.=13.03±

**TH #5**  
2" (PVC) FO  
COVER=5.20'±  
T.O.P.=10.60±

**TH #6A**  
4" (CI) UNKNOWN  
COVER=2.58'±  
T.O.P.=13.18±

**TH #6B**  
2" (CI) UNKNOWN  
COVER=2.10'±  
T.O.P.=13.65±

**15 CAUTION**  
PROP. 2" FM CROSSES UNDER PROP. 8" FM  
PROP. 8" FM BOP EL = 10.60±  
PROP. 2" FM TOP EL = 6.16±  
CLEARANCE = 4.44 FEET

**20 CAUTION**  
8" FM CROSSES UNDER 4" TELE  
4" TELE BOP EL = 12.70±  
8" FM TOP EL = 11.81±  
CLEARANCE = 11 INCHES

**25 CAUTION**  
8" FM CROSSES UNDER 2" CATV  
2" CATV BOP EL = 12.86±  
8" FM TOP EL = 4.76±  
CLEARANCE = 8.10 FEET

**16 CAUTION**  
2" FM CROSSES UNDER 8" SAN  
8" SAN BOP EL = 9.64±  
2" FM TOP EL = 6.16±  
CLEARANCE = 3.48 FEET

**21 CAUTION**  
8" FM CROSSES UNDER CATV  
CATV BOP EL = 12.87±  
8" FM TOP EL = 11.81±  
CLEARANCE = 1.06 FEET

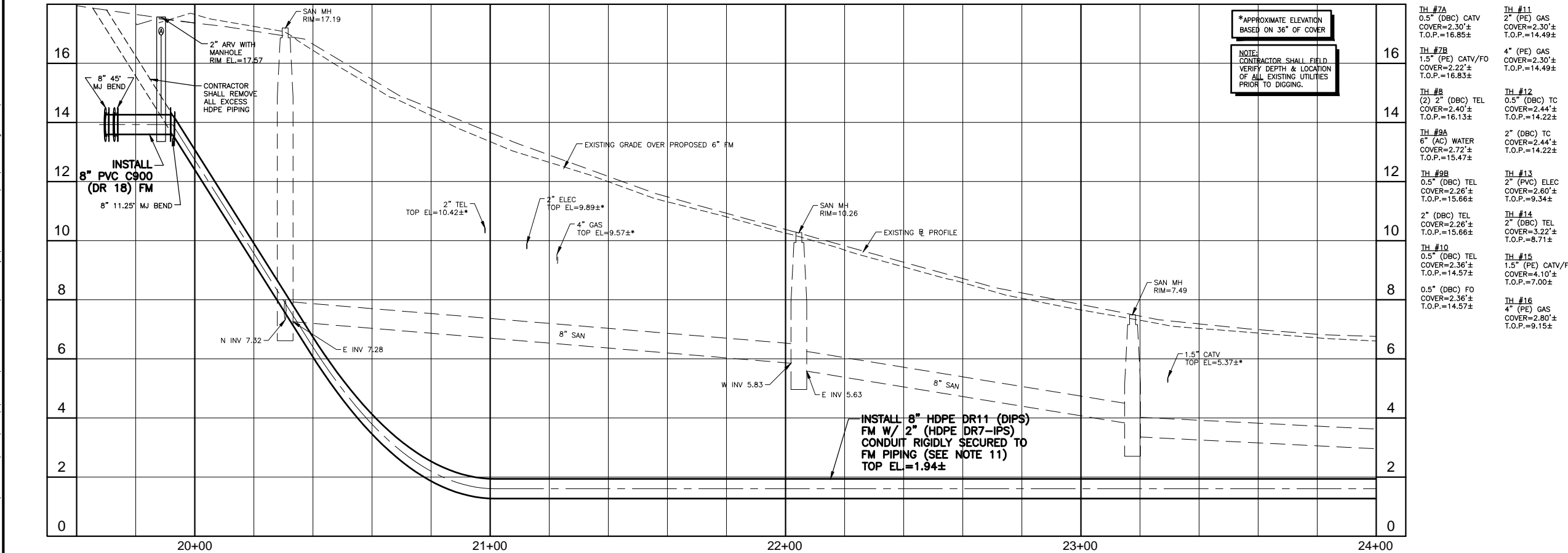
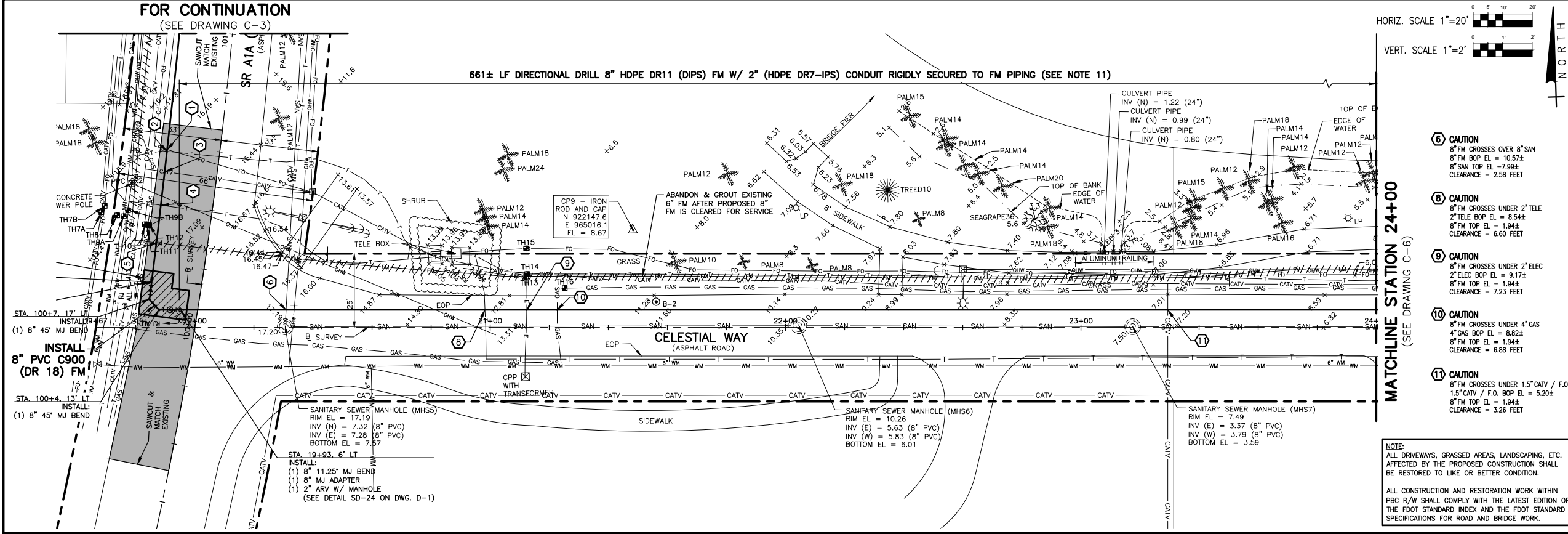
**26 CAUTION**  
8" FM CROSSES UNDER 2" F.O.  
2" F.O. BOP EL = 10.43±  
8" FM TOP EL = 4.76±  
CLEARANCE = 5.67 FEET

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**BID SET**

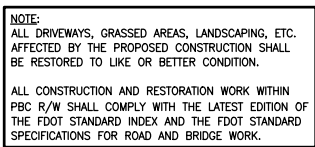














NO.	DATE	ISSUED FOR	APR'D BY	DESIGNED: C.K.M.	<b>BAXTER &amp; WOODMAN</b> Consulting Engineers 477 S. Rosemary Avenue, Suite 330, West Palm Beach, Florida 33401 Phone: 561-655-6175 • Fax: 561-655-6179 www.baxterwoodman.com EB-31795	VERIFY SCALE 1" = 20' BAR IS ONE INCH ON FULL SIZE (22x34) ORIGINAL DRAWING. ADJUST SCALES AS NECESSARY.	ENGINEER NO.: 191515	<b>LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT</b> OLYMPUS DRIVE FORCE MAIN & LOW PRESSURE SEWER REPLACEMENT  <b>CELESTIAL WAY PLAN AND PROFILE</b> STA. 20+00 TO STA. 24+00	DATE: NOVEMBER 2020
				DRAWN: D.D.P.		CLIENT PROJECT NO.:	SHEET: 11 of 19		
				CHECKED: S.J.P.		CAD REF.: 191515P&P.DWG	DRAWING: C-5		
				APPROVED: M.R.T.		COURTNEY K. MARSHALL, P.E. No. 88881			

Acad Version : R22.0s (LMS Tech)  
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Layout Tab: C-5

**BID SET**

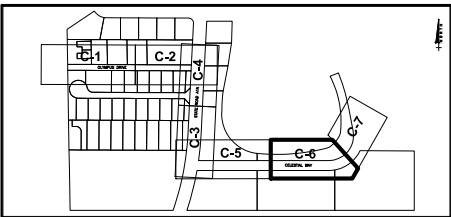


1. CONTRACTOR SHALL FIELD VERIFY LOCATION OF ALL UTILITY CROSSINGS, INCLUDING PARALLELING OF UTILITIES, PRIOR TO CONSTRUCTION OF PROPOSED SANITARY SEWERS, FORCE MAINS AND ROADWAYS.
2. IRRIGATION SYSTEMS NOT SHOWN, BUT DO EXIST THROUGHOUT PROJECT AREA. CONTRACTOR SHALL REPLACE ALL DAMAGED IRRIGATION PIPING, HEADS AND CONTROL VALVES IN KIND, SO THAT SYSTEM PROVIDES ORIGINAL COVERAGE. ZONES TO BE GAPPED OFF A CONSTRUCTION LINE, BALANCE OF IRRIGATION ZONES TO REMAIN ACTIVE AND MAINTAINED.
3. ALL FORCE MAIN FITTINGS SHALL HAVE RESTRAINED JOINTS. SEE STANDARD DETAIL DRAWING D-2 FOR MECHANICAL THROUST RESTRAINT - MINIMUM PIPE LENGTHS DETAIL.
4. CONTRACTOR SHALL REFER TO DETAILS ON DRAWINGS D-1 THROUGH D-5 FOR STANDARD DETAIL CONSTRUCTION INFORMATION.
5. ALL AREAS DISTURBED BY CONSTRUCTION ACTIVITIES SHALL BE RESTORED IN KIND.
6. IN AREAS OF UNDERGROUND UTILITIES CONTRACTOR SHALL HAND-DIG AS NECESSARY TO AVOID DAMAGING EXISTING UTILITIES. CONTRACTOR IS RESPONSIBLE FOR REPLACING ANY DAMAGED UTILITIES AS A RESULT OF CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL TEMPORARILY SUPPORT ALL UNDERGROUND UTILITIES AS REQUIRED TO COMPLETE THE WORK AS SHOWN.
7. POTABLE WATER SERVICE LINES NOT SHOWN, BUT DO EXIST THROUGHOUT PROJECT AREA. IF SHOWN, THEY ARE APPROXIMATE LOCATIONS ONLY. CONTRACTOR SHALL LOCATE ALL WATER SERVICE LINES PRIOR TO DIGGING. CONTRACTOR SHALL REPAIR ANY WATER SERVICE LINES DAMAGED DURING CONSTRUCTION IMMEDIATELY **(THIS IS A NON-PAY ITEM)**.
8. CONTRACTOR SHALL COORDINATE WITH FPL FOR SERVICES TO TEMPORARILY SECURE/HOLD EXISTING POWER POLES WHICH ARE IN CLOSE PROXIMITY TO THE CONSTRUCTION TRENCH EXCAVATION.
9. CONTRACTOR SHALL SAW-CUT THE PAVEMENT AT EACH DRIVEWAY FOR ROADWAY DEMOLITION. CONTRACTOR SHALL ALSO PROTECT EXISTING DRIVEWAYS (VIA SHEETING OR OTHER METHOD) DURING CONSTRUCTION TO ENSURE THAT THEY ARE NOT DAMAGED. CONTRACTOR SHALL BE RESPONSIBLE FOR REPLACING IN KIND ALL DAMAGED DRIVEWAYS DURING ROADWAY CONSTRUCTION. DAMAGED DRIVEWAYS SHALL BE REPLACED BETWEEN THE DAMAGED SECTION OF EACH DRIVEWAY TO THE NEAREST EXISTING CONTROL JOINT. IF THERE ARE NO EXISTING JOINTS BETWEEN THE EDGE OF PAVEMENT AND THE PROPERTY LINE, THE CONTRACTOR SHALL REPLACE THE FULL APRON FROM THE EDGE OF PAVEMENT TO THE PROPERTY LINE **(THIS IS A NON-PAY ITEM)**.
10. CONTRACTOR TO REMOVE AND REINSTALL EXISTING STREET SIGNS AS REQUIRED.
11. CONTRACTOR SHALL SUPPLY AND INSTALL A 2-INCH HDPE (DR7-IPS) "TRACER WIRE" PIPE ALONG THE ENTIRE LENGTH OF THE NEW 6" HDPE FORCE MAIN INSTALLED VIA HDD METHOD. THE "TRACER WIRE" PIPE SHALL BE SECURED TO THE FORCE MAIN TRIP AND SHALL BE CONTINUOUS. THE CONTRACTOR SHALL INSTALL AN APPROPRIATELY SIZED (MIN 14 GAUGE COPPER) TRACER CONDUCTOR AND CONFIRM CONTINUITY IN THE PRESENCE OF THE ENGINEER PRIOR TO COMPLETION.

<b><u>LEGEND</u></b>	
	PROPOSED 1.5" MILL AND OVERLAY (SP 12.5)
	OPEN CUT PAVEMENT REPAIR
	PROPOSED CONCRETE SIDEWALK REPLACEMENT (4" THICK)
	BRICK SIDEWALK REPLACEMENT
	ABANDON EXISTING FM (GROUT)
	REMOVE EXISTING FM
 SB-1	SOIL BORING LOCATION
 TH#1	SOFT DIG LOCATION
	CONFLICT DATA
 *	PROPOSED 1 1/2" LOW PRESSURE SEWER SERVICE LINE AND VALVE BOX

\* ACTUAL LOCATION SHALL BE FIELD VERIFIED BY CONTRACTOR AND DISTRICT STAFF PRIOR TO CONSTRUCTION

NOTE:  
UNDER THE CURRENT DEP RULES: THE MINIMUM CLEARANCE FOR WATER MAINS IS SIX INCHES (6") OVER SEWER LATERALS OR TWELVE INCHES (12") UNDER SEWER LATERALS WITH NO REQUIREMENT FOR UPGRADING PIPE MATERIALS. ANY INSTALLATION OF DUCTILE IRON PIPE WITH THESE MINIMUM CLEARANCES REQUIRES USE OF DUCTILE IRON WATER PIPE AND EITHER DUCTILE IRON SEWER PIPE OR ENCASEMENT WITH HIGH IMPACT STRENGTH PIPE OR FOUR INCHES OF CONCRETE.



Adverts call for two full business days before you die

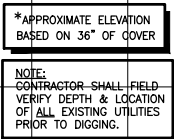
**Sunshine811.com**

DATE: NOVEMBER 2020

SHEET: 12 of 19

DRAWING: C-6

- ① **CAUTION**  
8" FM CROSSES UNDER 4" GAS  
4" GAS BOP EL = 2.52±  
8" FM TOP EL = 1.94±  
CLEARANCE = 7 INCHES
- ② **CAUTION**  
8" FM CROSSES UNDER 4" GAS  
4" GAS BOP EL = 2.52±  
8" FM TOP EL = 1.94±  
CLEARANCE = 7 INCHES
- ③ **CAUTION**  
8" FM CROSSES UNDER 0.5" CATV  
0.5" CATV BOP EL = 3.86±  
8" FM TOP EL = 1.94±  
CLEARANCE = 1.92 FEET
- ④ **CAUTION**  
8" FM CROSSES UNDER 2" TELE  
2" TELE BOP EL = 3.40±  
8" FM TOP EL = 1.94±  
CLEARANCE = 1.48 FEET
- ⑤ **CAUTION**  
8" FM CROSSES UNDER 1.5" CATV / F.O.  
1.5" CATV / F.O. BOP EL = 3.81±  
8" FM TOP EL = 1.94±  
CLEARANCE = 1.87 FEET
- ⑥ **CAUTION**  
PROP. 8" FM CROSSES UNDER EXIST. 6" FM  
EXIST. 6" FM BOP EL = 2.80±  
PROP. 8" FM TOP EL = 1.94±  
CLEARANCE = 10 INCHES



NO.	DATE	ISSUED FOR	APRVD BY	DESIGNED: C.K.M.
				DRAWN: D.D.P.
				CHECKED: S.J.P.
				APPROVED: M.R.T.

COURTNEY K. MARSHALL, P.E.  
No. 88881

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[www.baxterwoodman.com](http://www.baxterwoodman.com) EB-31795

VERIFY SCALE

1"

BAR IS ONE INCH  
ON FULL SIZE  
(22x34) ORIGINAL  
DRAWING. ADJUST  
SCALES AS  
NECESSARY.

ENGINEER NO.: 191515  
CLIENT  
PROJECT NO.: \_\_\_\_\_  
CAD REF.:191515P&P.DWG

LOXAHATCHEE RIVER  
ENVIRONMENTAL CONTROL DISTRICT  
OLYMPUS DRIVE FORCE MAIN & LOW PRESSURE SEWER REPLACEMENT

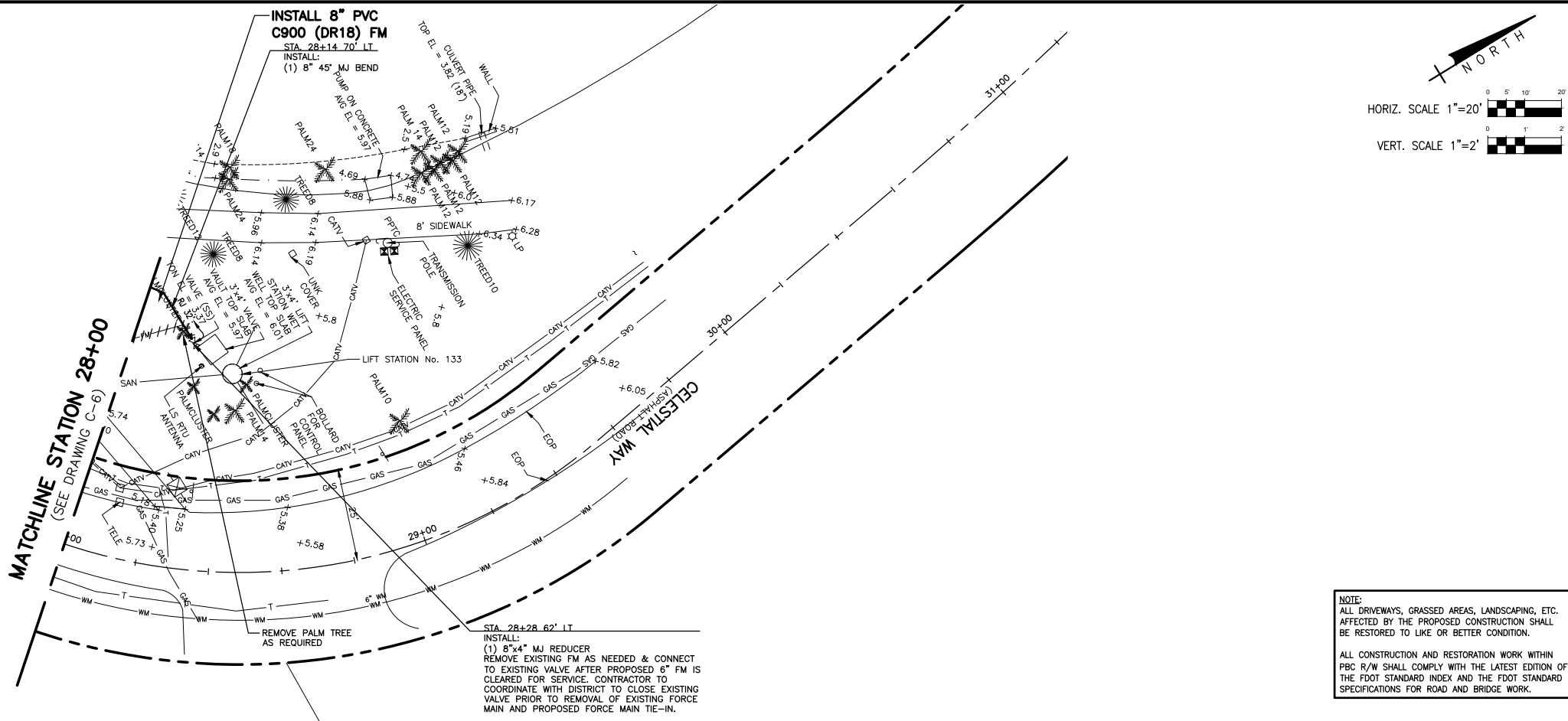
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CELESTIAL WAY  
PLAN AND PROFILE  
STA. 24+00 TO STA. 28+00

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Layout Tab: C-6



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Layout Tab: C-7



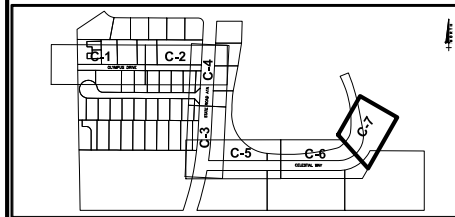
- NOTES:**
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  - IRRIGATION SYSTEMS NOT SHOWN, BUT DO EXIST THROUGHOUT PROJECT AREA. CONTRACTOR SHALL REPLACE ALL DAMAGED IRRIGATION PIPING, HEADS AND CONTROL LINES IN KIND, SO THAT SYSTEM PROVIDES ORIGINAL COVERAGE. ZONES TO BE CAPPED OFF AT CONSTRUCTION LINE. BALANCE OF IRRIGATION ZONES TO REMAIN ACTIVE AND MAINTAINED.
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KEY MAP

Always call 811 two full business days before you dig



**BID SET**

NO.	DATE	ISSUED FOR	APRVD BY	DESIGNED: C.K.M.
				DRAWN: D.D.P.
				CHECKED: S.J.P.
				APPROVED: M.R.T.

COURTNEY K. MARSHALL, P.E.  
No. 88881

**BAXTER & WOODMAN**  
Consulting Engineers

477 S. Rosemary Avenue, Suite 330, West Palm Beach, Florida 33401  
Phone: 561-655-6175 • Fax: 561-655-6179  
www.baxterwoodman.com EB-31795

VERIFY SCALE  
1"  
BAR IS ONE INCH ON FULL SIZE (22x34) ORIGINAL DRAWING. ADJUST SCALES AS NECESSARY.

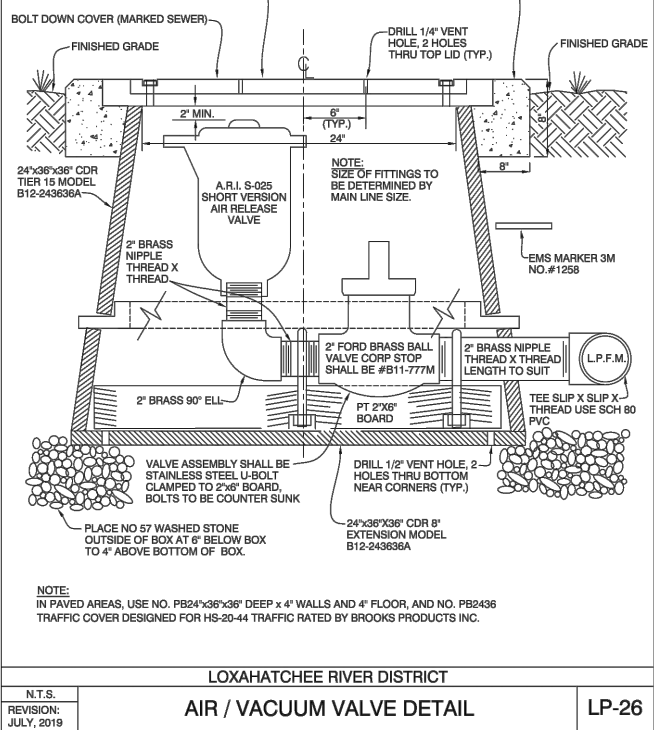
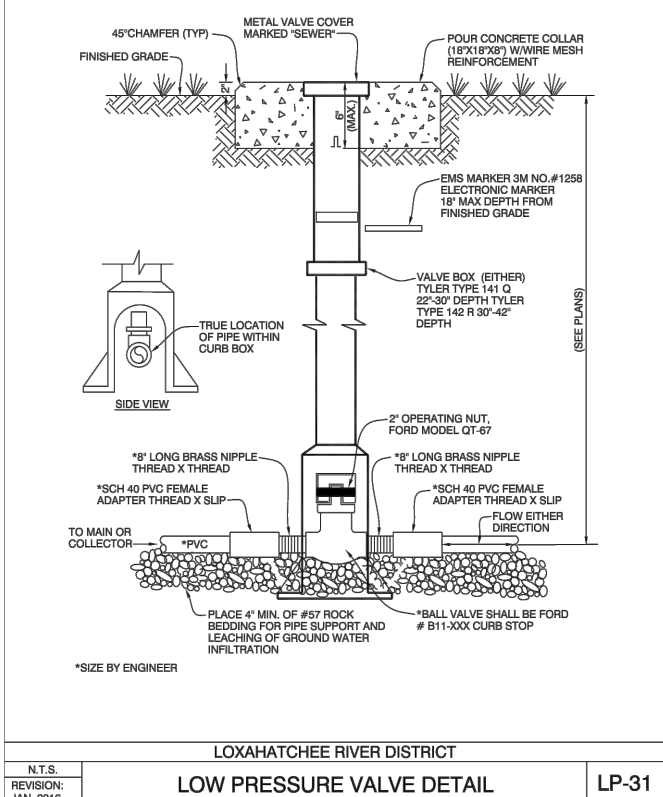
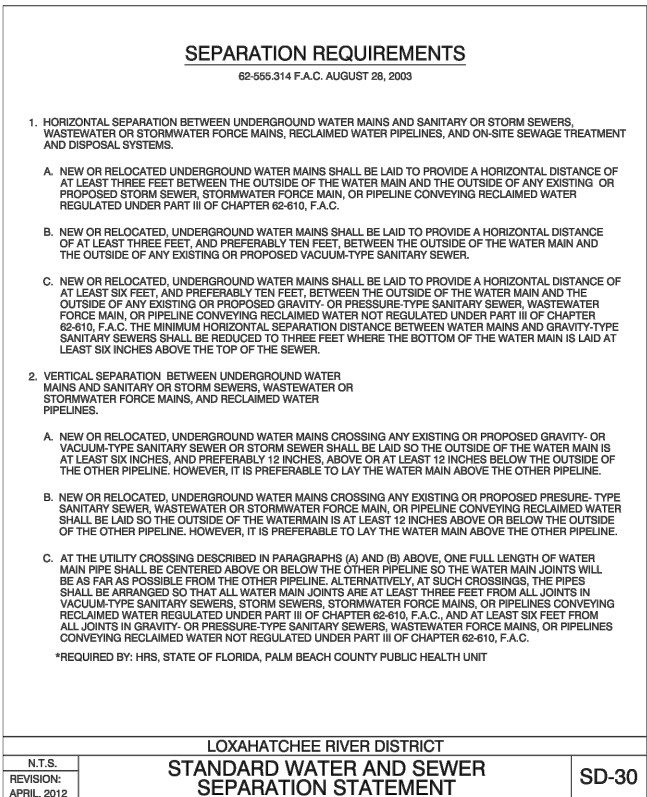
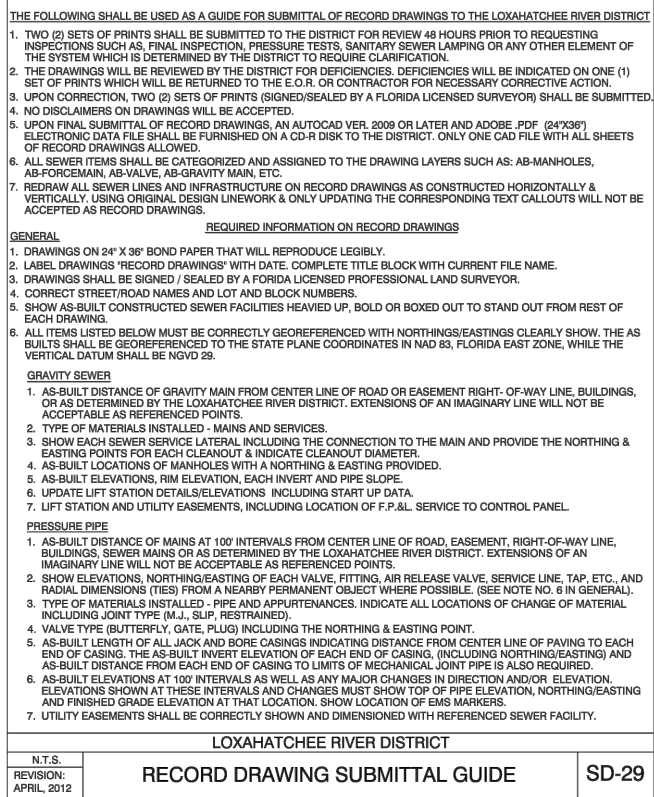
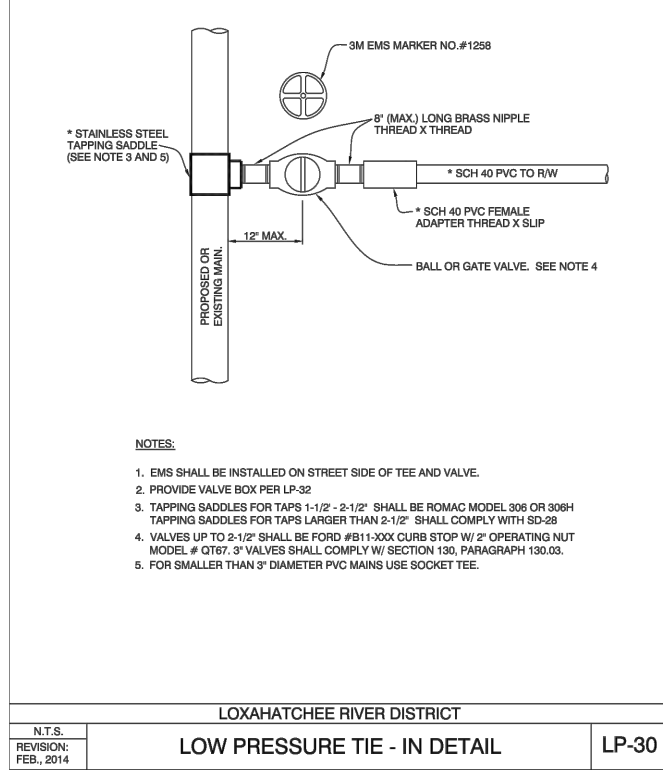
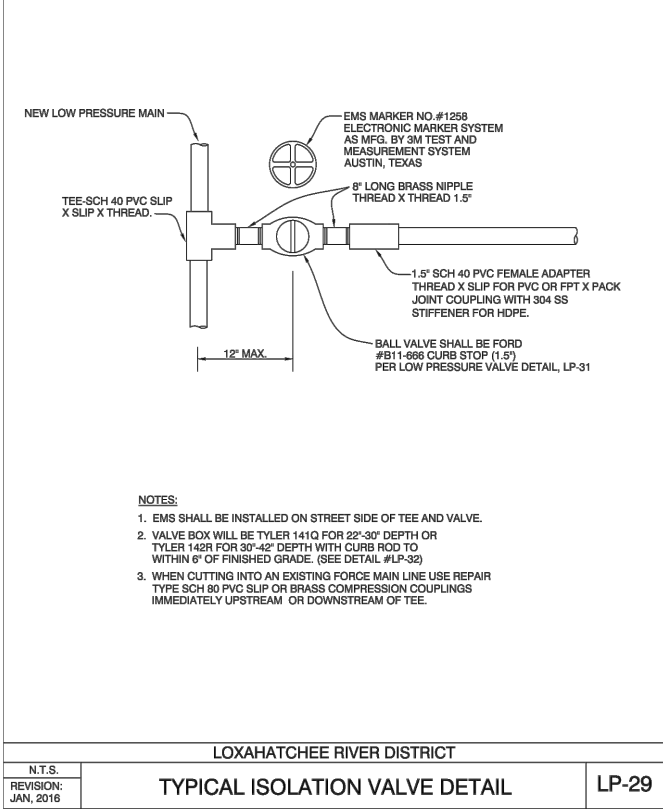
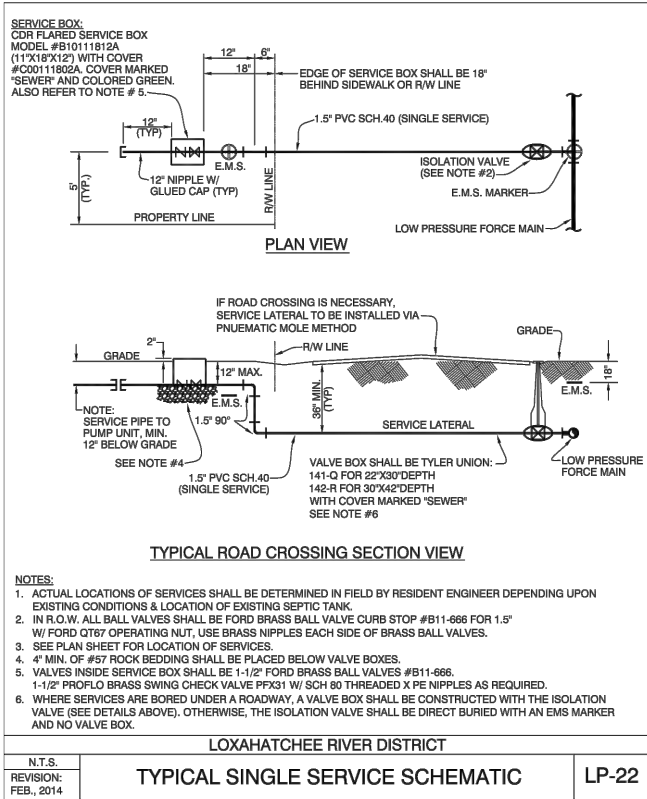
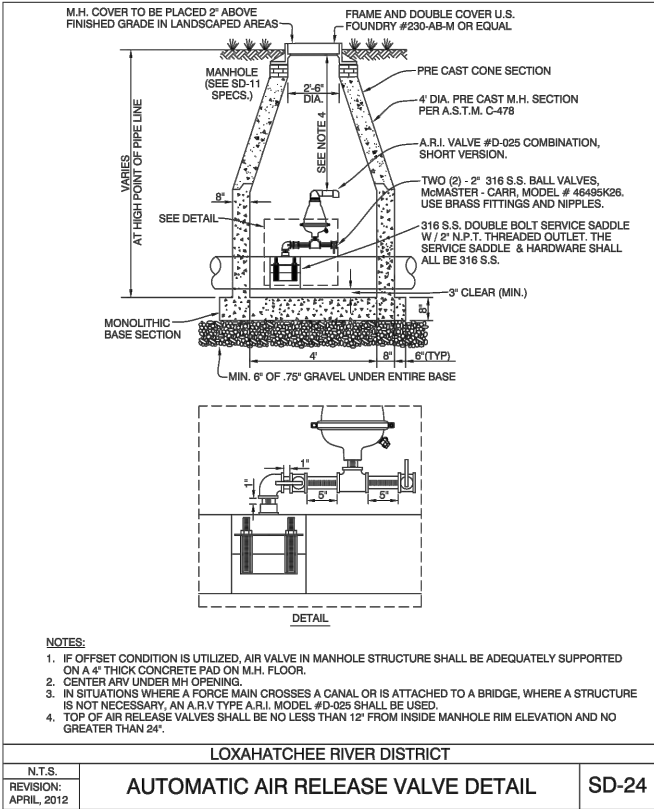
ENGINEER NO.: 191515  
CLIENT  
PROJECT NO.:  
CAD REF.:191515P&P.DWG

LOXAHATCHEE RIVER  
ENVIRONMENTAL CONTROL DISTRICT  
OLYMPUS DRIVE FORCE MAIN & LOW PRESSURE SEWER REPLACEMENT  
CELESTIAL WAY  
PLAN AND PROFILE  
STA. 28+00 TO STA. 30+00

DATE: NOVEMBER 2020  
SHEET: 13 of 19  
DRAWING: C-7



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NO.	DATE	ISSUED FOR	APRV'D BY	DESIGNED: C.K.M.	DRAWN: D.D.P.	CHECKED: S.J.P.	APPROVED: M.R.T.

COURTNEY K. MARSHALL, P.E.  
No. 88881

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Consulting Engineers

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VERIFY SCALE

1"

BAR IS ONE INCH ON FULL SIZE (22x34) ORIGINAL DRAWING. ADJUST SCALES AS NECESSARY.

ENGINEER NO.: 191515

CLIENT PROJECT NO.:

CAD REF.191515D.TLS.DWG

LOXAHATCHEE RIVER ENVIRONMENTAL CONTROL DISTRICT

OLYMPUS DRIVE FORCE MAIN & LOW PRESSURE SEWER REPLACEMENT

STANDARD DETAILS - SHEET 1

DATE: NOVEMBER 2020

SHEET: 14 of 19

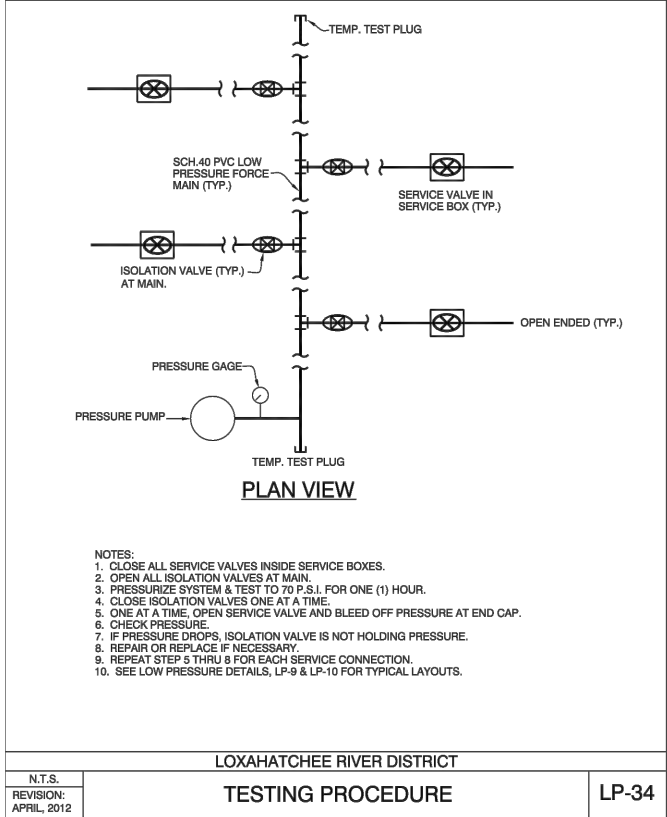
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Always call this two full business days before you die

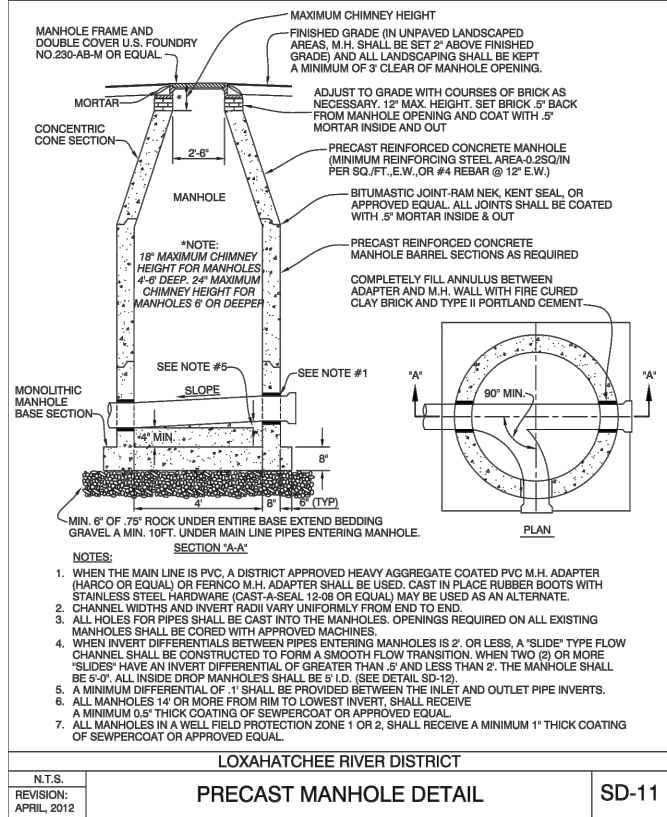
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**BID SET**

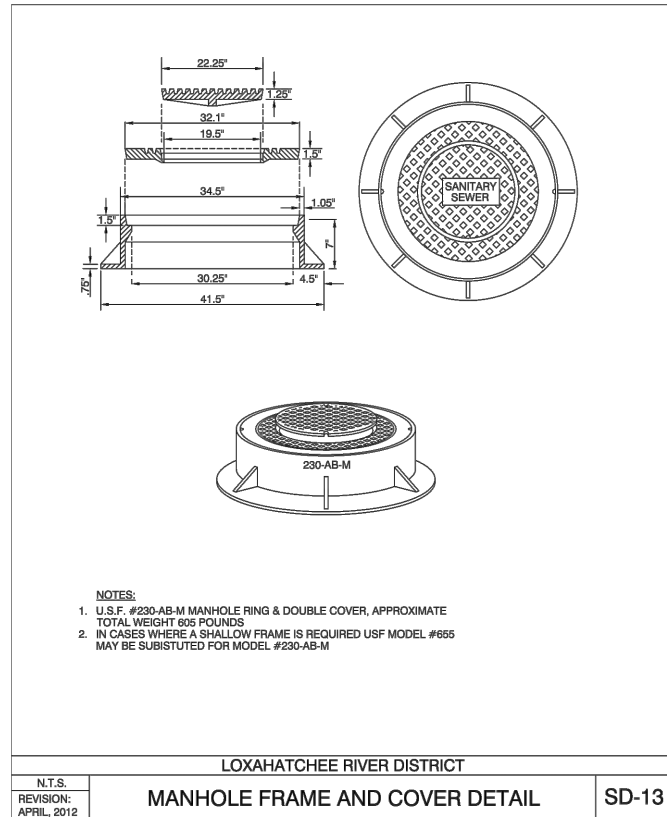




LOXAHATCHEE RIVER DISTRICT	
N.T.S.	LP-34
REVISION: APRIL, 2012	TESTING PROCEDURE



LOXAHATCHEE RIVER DISTRICT	
N.T.S.	SD-11
REVISION: APRIL, 2012	PRECAST MANHOLE DETAIL

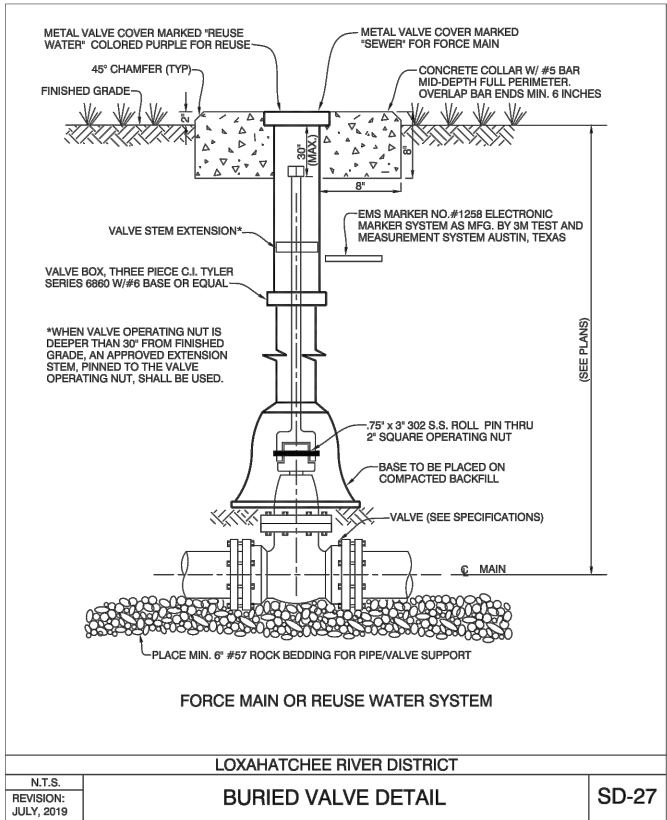


LOXAHATCHEE RIVER DISTRICT	
N.T.S.	SD-13
REVISION: APRIL, 2012	MANHOLE FRAME AND COVER DETAIL

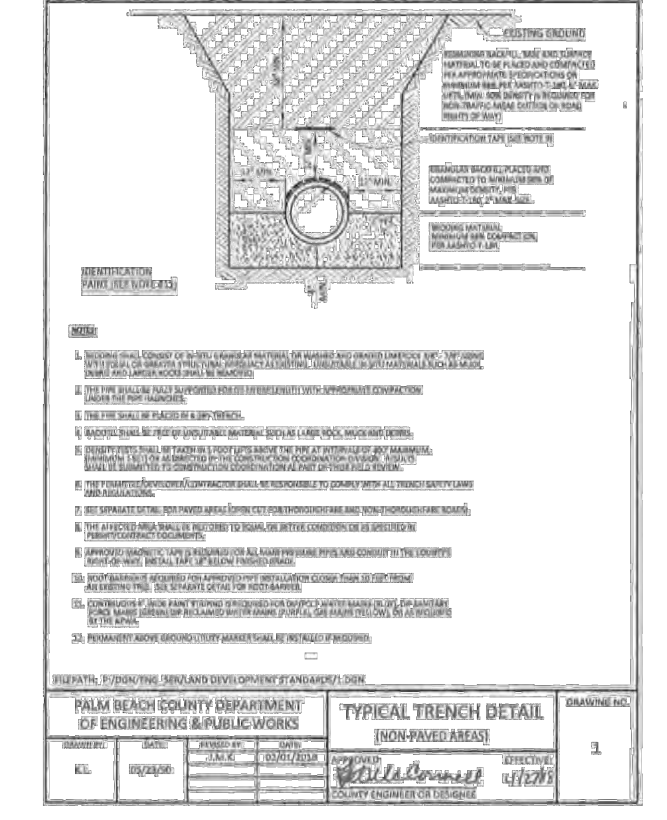
TYPE	MINIMUM LENGTH (FT) TO BE RESTRAINED ON EACH SIDE OF FITTING(S)										
	PIPE SIZE										
90° BEND	18	24	31	38	43	55	65	75	88	100	
45° BEND	8	10	13	15	18	23	26	31	38	43	
22-1/2° BEND	4	5	6	8	9	11	13	15	18	20	
11-1/4° BEND	2	3	4	5	6	8	9	10	11	13	
PLUG OR BRANCH OF TEE	38	50	65	79	90	117	139	163	194	223	
VALVE	19	25	32	40	45	59	70	82	98	112	
REDUCER	VARIES BY SIZE; TO BE DETERMINED BY THE DESIGN ENGINEER										

NOTES:  
1. FITTINGS SHALL HAVE RESTRAINED JOINTS UNLESS OTHERWISE INDICATED.  
2. INSTALL FULL LENGTH JOINTS WITH TOTAL LENGTH EQUAL TO OR GREATER THAN LENGTH SHOWN IN THE TABLE.  
3. WHERE TWO OR MORE FITTINGS ARE IN SERIES, SELECT FITTING RESTRAINT LENGTH THAT YIELDS THE LONGEST RESTRAINT DISTANCE.  
4. ALL INLINE VALVES SHALL BE RESTRAINED.  
5. WHERE INTERNAL RESTRAINED JOINTS ARE USED, THE ENTIRE BELL SHALL BE PAINTED RED.  
6. LENGTHS SHOWN IN THE TABLE WERE CALCULATED IN ACCORDANCE WITH PROCEDURES OUTLINED IN "THRUST RESTRAINT DESIGN FOR DUCTILE IRON PIPE" GUIDELINES PUBLISHED BY DIPRA, USING THE ASSUMPTIONS SHOWN BELOW:  
  
WORKING PRESSURE: 100 PSI  
SOIL DESIGNATION: SM (SAND SILT)  
LAYING CONDITIONS: 3  
DEPTH OF COVER: 3 FT  
SAFETY FACTOR: 1.5  
CONVERSION FACTOR FOR PVC PIPE: 1.25  
  
THE DESIGN ENGINEER SHALL INCREASE THE VALUES IN THE TABLE AS WARRANTED BY SITE-SPECIFIC PARAMETERS, SUCH AS SOIL DESIGNATIONS AND LAYING CONDITIONS.

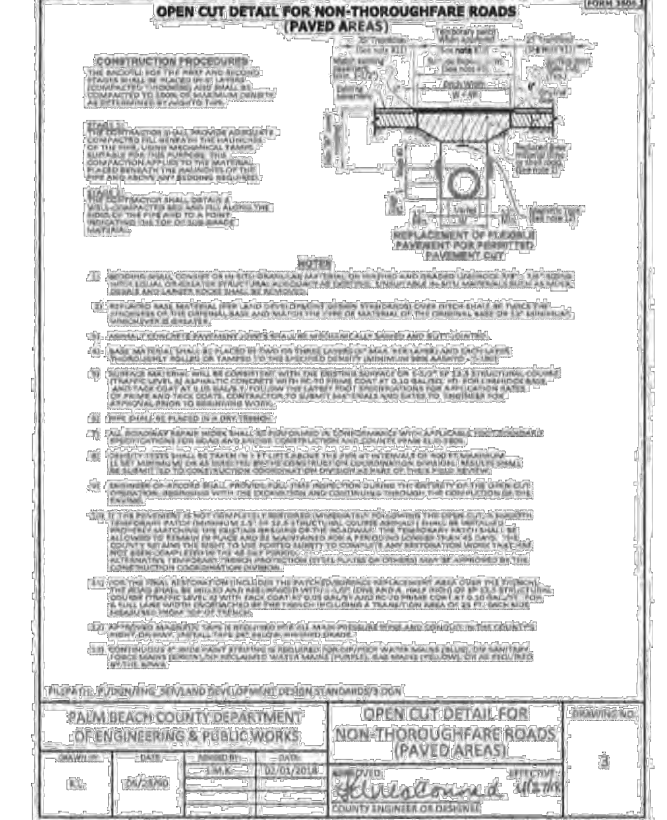
LOXAHATCHEE RIVER DISTRICT	
N.T.S.	SD-18
REVISION: APRIL, 2012	FORCE MAIN THRUST RESTRAINT CHART



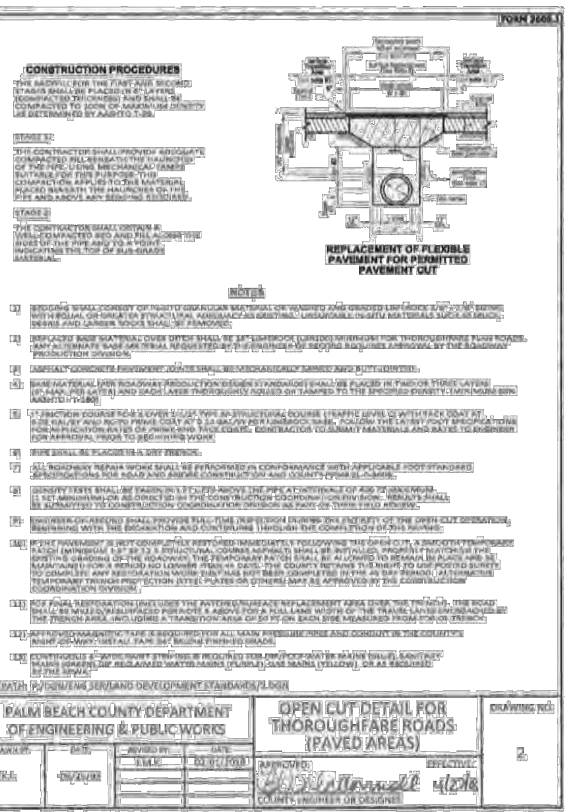
LOXAHATCHEE RIVER DISTRICT	
N.T.S.	SD-27
REVISION: JULY, 2019	BURIED VALVE DETAIL



PALM BEACH COUNTY DEPARTMENT OF ENGINEERING & PUBLIC WORKS	
N.T.S.	3
REVISION: JULY, 2019	TYPICAL TRENCH DETAIL (NON-PAVED AREAS)



PALM BEACH COUNTY DEPARTMENT OF ENGINEERING & PUBLIC WORKS	
N.T.S.	2
REVISION: JULY, 2019	OPEN CUT DETAIL FOR NON-THOROUGHFARE ROADS (PAVED AREAS)



PALM BEACH COUNTY DEPARTMENT OF ENGINEERING & PUBLIC WORKS	
N.T.S.	2
REVISION: JULY, 2019	REPLACEMENT OF FLEEDIBLE PAVEMENT FOR PAVED AREAS

NO.	DATE	ISSUED FOR	APR'D BY	DESIGNED:	C.K.M.
				DRAWN:	D.D.P.
				CHECKED:	S.J.P.
				APPROVED:	M.R.T.

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LOXAHATCHEE RIVER  
ENVIRONMENTAL CONTROL DISTRICT  
OLYMPUS DRIVE FORCE MAIN & LOW PRESSURE SEWER REPLACEMENT  
STANDARD DETAILS - SHEET 2

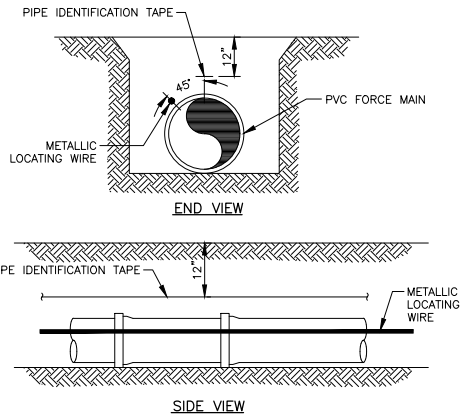
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SHEET: 15 of 19  
DRAWING: D-2

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Sunshine 811.com

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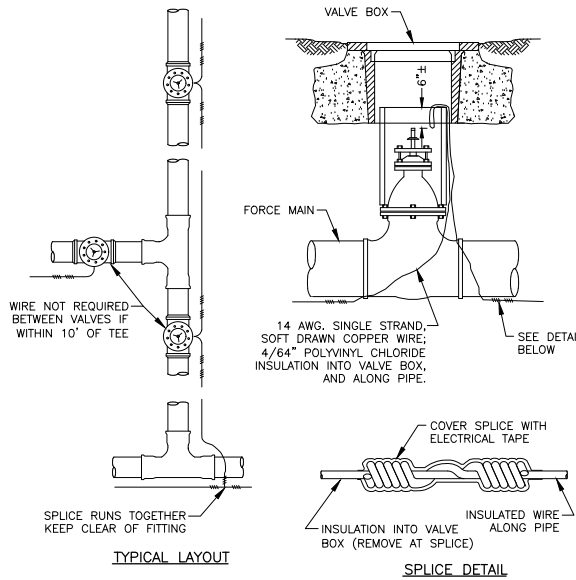


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Date/Time : Mon, 19 Oct 2020 - 4:14pm  
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Current PlotStyle : B\Color  
Layout Tab: D-3



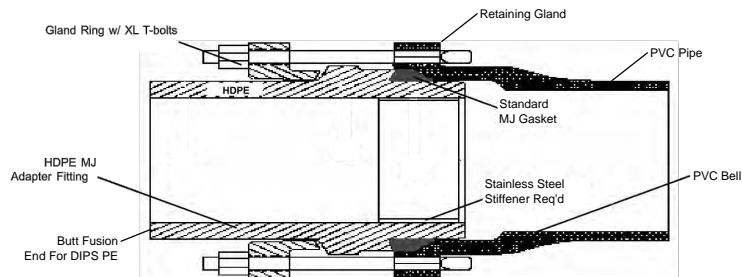
- NOTES:
1. ALL PVC PRESSURE PIPE SHALL REQUIRE INSULATED METALLIC LOCATING WIRE (14 GAUGE COPPER) CAPABLE OF DETECTION BY A CABLE LOCATOR AND SHALL BE BURIED DIRECTLY AGAINST PIPE.
  2. LOCATING WIRE SHALL TERMINATE AT THE TOP OF EACH VALVE BOX AND BE CAPABLE OF EXTENDING 12" ABOVE TOP OF BOX IN SUCH A MANNER SO AS NOT TO INTERFERE WITH VALVE OPERATION.
  3. USE DUCT TAPE AS NECESSARY TO HOLD WIRE DIRECTLY AGAINST THE PIPE.
  4. ALL PVC/DIP PRESSURE PIPE SHALL REQUIRE 3" ALUMINUM FOIL IDENTIFICATION TAPE INDICATING MATERIAL CONTAINED WITHIN PIPE (E.G., FORCE MAIN). TAPE SHALL BE BURIED DIRECTLY ABOVE THE CENTERLINE OF PIPE, AND UNBROKEN THE ENTIRE RUN OF PIPE.

FM PVC PIPE LOCATING WIRE DETAIL  
N.T.S.



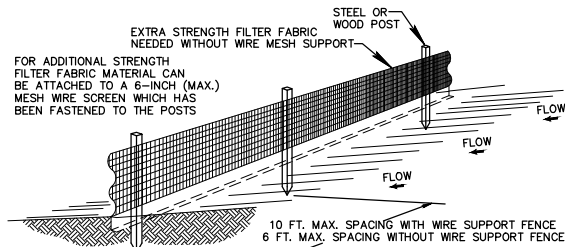
- NOTES:
1. WIRE TO BE CONTINUOUS BETWEEN VALVE BOXES, EXCEPT AS NOTED.
  2. LOCATING WIRE TO BE LAID AT BOTTOM OF TRENCH, NEXT TO PIPE.

FM PVC PIPE LOCATING WIRE DETAIL



NOTE:  
ALL FERROUS METAL COMPONENTS AND HARDWARE SHALL BE FABRICATED OF 316 SS.

HDPE - PVC CONNECTION DETAIL  
N.T.S.

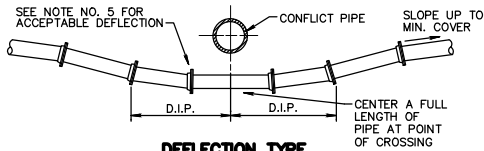
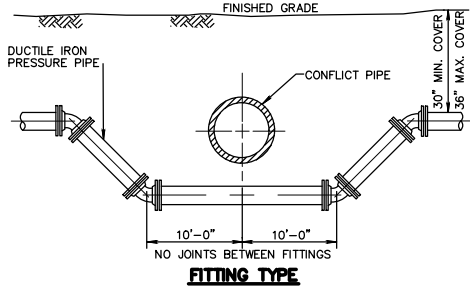


NOTES:

1. THE HEIGHT OF A SILT FENCE SHALL NOT EXCEED 36 INCHES (90 CM).
2. THE FILTER FABRIC SHALL BE PURCHASED IN A CONTINUOUS ROLL CUT TO THE LENGTH OF THE BARRIER TO AVOID THE USE OF JOINTS.
3. POSTS SHALL BE SPACED A MAXIMUM OF 10 FEET (3 M) APART AT THE BARRIER LOCATION AND DRIVEN SECURELY INTO THE GROUND A MINIMUM OF 12 INCHES (30 CM). WHEN EXTRA STRENGTH FABRIC IS USED WITHOUT THE WIRE SUPPORT FENCE, POST SPACING SHALL NOT EXCEED 6 FEET (1.8 M).
4. A TRENCH SHALL BE EXCAVATED APPROXIMATELY 4 INCHES (10 CM) WIDE AND 4 INCHES (10 CM) DEEP ALONG THE LINE OF POSTS AND UPSLOPE FROM THE BARRIER.
5. WHEN STANDARD STRENGTH FILTER FABRIC IS USED, A WIRE MESH SUPPORT FENCE SHALL BE FASTENED SECURELY TO THE UPSLOPE SIDE OF THE POSTS USING HEAVY DUTY WIRE STAPLES AT LEAST 1 INCH (25 MM) LONG, THE WIRES, OR HOG RINGS. THE WIRE SHALL EXTEND INTO THE TRENCH A MINIMUM OF 2 INCHES (5 CM) AND SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGINAL GROUND SURFACE.
6. THE STANDARD STRENGTH FILTER FABRIC SHALL BE STAPLED OR WIRED TO THE FENCE, AND 8 INCHES (20 CM) OF THE FABRIC SHALL BE EXTENDED INTO THE TRENCH. THE FABRIC SHALL NOT EXTEND MORE THAN 36 INCHES (90 CM) ABOVE THE ORIGINAL GROUND SURFACE.
7. THE TRENCH SHALL BE BACKFILLED AND THE SOIL COMPACTED OVER THE FILTER FABRIC.
8. ALL PROJECTS REQUIRE SUBMITTAL OF POLLUTION PREVENTION PLAN (PPP).
9. ALL PROJECTS 1 AC. OR MORE MUST SUBMIT NOTICE OF INTENT (NOI) TO FDP.

SILT FENCE DETAIL

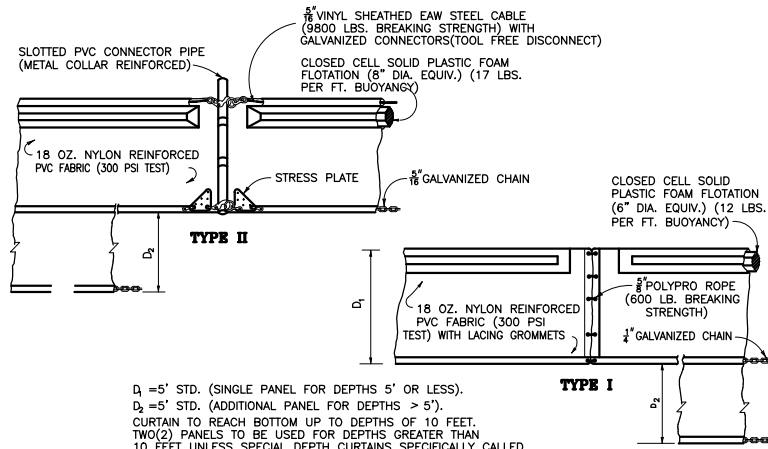
NTS



NOTES:

1. THERE SHALL BE IN ALL CASES A MINIMUM OF 18" VERTICAL SEPARATION BETWEEN WATER MAINS AND FORCE MAINS.
2. WHEREVER POSSIBLE WATER MAINS SHALL PASS OVER FORCE MAINS OR STORM SEWERS.
3. FITTINGS SHALL BE RESTRAINED WITH MECHANICAL JOINT RESTRAINTS.
4. THE DEFLECTION TYPE CROSSING IS PREFERRED.
5. DO NOT EXCEED 75% OF MANUFACTURERS RECOMMENDED MAXIMUM JOINT DEFLECTION.
6. REFER TO TYPICAL RESTRAINING DETAIL PP 2.1

PRESSURE PIPE CONFLICT DETAIL  
NTS

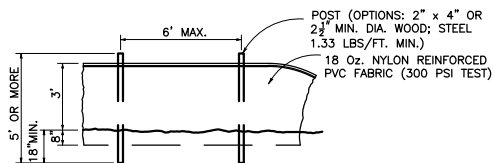
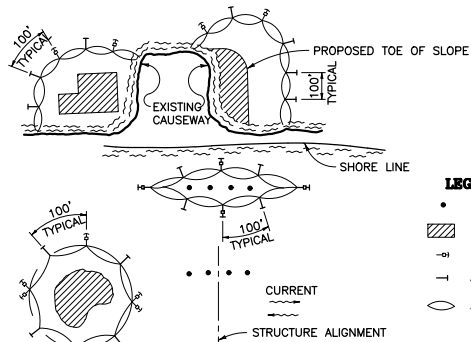


D1 = 5' STD. (SINGLE PANEL FOR DEPTHS 5' OR LESS).

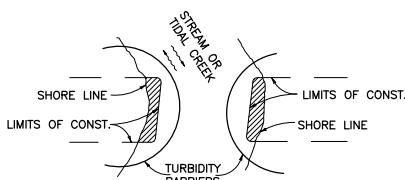
D2 = 5' STD. (ADDITIONAL PANEL FOR DEPTHS > 5').

CURTAIN TO REACH BOTTOM UP TO DEPTHS OF 10 FEET. TWO(2) PANELS TO BE USED FOR DEPTHS GREATER THAN 10 FEET UNLESS SPECIAL DEPTH CURTAINS SPECIFICALLY CALLED FOR IN THE PLANS OR AS DETERMINED BY THE ENGINEER.

NOTE: COMPONENTS OF TYPES I AND II MAY BE SIMILAR OR IDENTICAL TO PROPRIETARY DESIGNS. ANY INFRINGEMENT ON THE PROPRIETARY RIGHTS OF THE DESIGNER SHALL BE THE SOLE RESPONSIBILITY OF THE USER. SUBSTITUTIONS FOR TYPES I AND II SHALL BE AS APPROVED BY THE ENGINEER.



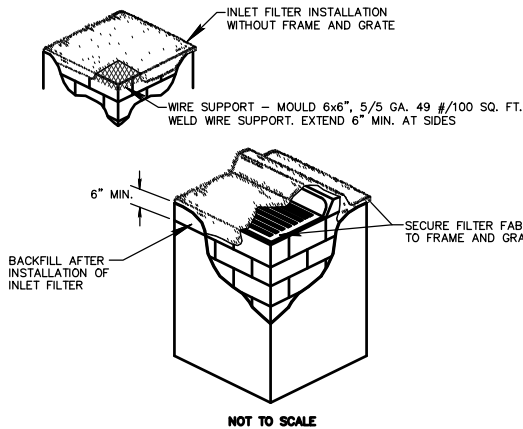
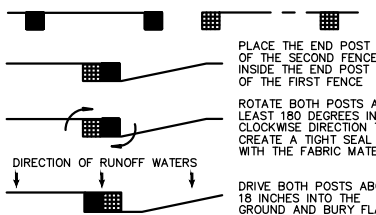
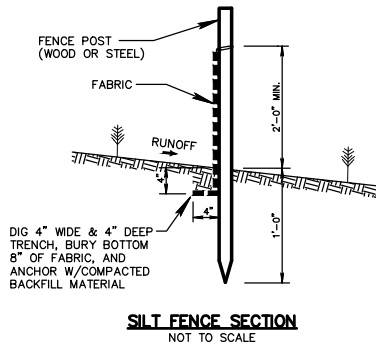
STAKED TURBIDITY BARRIER



NOTES:

1. TURBIDITY BARRIERS FOR FLOWING STREAMS AND TIDAL CREEKS MAY BE EITHER FLOATING, OR STAKED TYPES OR ANY COMBINATION OF TYPES THAT WILL SUIT SITE CONDITIONS AND MEET EROSION CONTROL AND WATER QUALITY REQUIREMENTS. THE BARRIER TYPE(S) WILL BE AT THE CONTRACTOR'S OPTION UNLESS OTHERWISE SPECIFIED IN THE PLANS. POSTS IN STAKED TURBIDITY BARRIERS TO BE INSTALLED IN VERTICAL POSITION UNLESS OTHERWISE DIRECTED BY THE ENGINEER.
2. TURBIDITY BARRIERS ARE TO BE USED IN ALL PERMANENT BODIES OF WATER REGARDLESS OF WATER DEPTH.
3. NUMBER AND SPACING OF ANCHORS DEPENDENT ON CURRENT VELOCITIES.
4. DEPLOYMENT OF BARRIER AROUND PILE LOCATIONS MAY VARY TO ACCOMMODATE CONSTRUCTION OPERATIONS.
5. NAVIGATION MAY REQUIRE SEGMENTING BARRIER DURING CONSTRUCTION OPERATIONS.
6. FOR ADDITIONAL INFORMATION SEE SECTION 104 OF THE STANDARD SPECIFICATIONS.

FLOATING TURBIDITY BARRIERS



NOTES:

1. CONTRACTOR IS TO CLEAN INLET FILTER AFTER EVERY STORM.
2. CONTRACTOR TO REMOVE FABRIC JUST PRIOR TO PAVING.

A SEDIMENT TRAP WILL BE EXCAVATED BEHIND THE CURB AT THE INLET. THE BASIN SHALL BE AT LEAST 12 TO 14 INCHES IN DEPTH, APPROXIMATELY 36 INCHES IN WIDTH, AND APPROXIMATELY 7 TO 10 FEET IN LENGTH PARALLEL TO THE CURB.

STORM WATER WILL REACH THE SEDIMENT TRAP VIA CURB CUTS ADJACENT TO EACH SIDE OF THE INLET STRUCTURE. THESE OPENINGS SHALL BE AT LEAST 12 INCHES IN LENGTH. STORM WATER MAY ALSO REACH THE BASIN VIA OVERLAND FLOW LAND AREA BEHIND THE CURB. THE CURB CUTS SHALL BE REPAIRED WHEN THE SEDIMENT TRAP IS REMOVED.

INLET FILTER DETAIL  
NTS

NO.	DATE	ISSUED FOR	APRV'D BY	DESIGNED: C.K.M.
				DRAWN: D.D.P.
				CHECKED: S.J.P.
				APPROVED: M.R.T.

COURTNEY K. MARSHALL, P.E.  
No. 88881

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Phone: 561-655-6175 • Fax: 561-655-6179  
www.baxterwoodman.com EB-31795

VERIFY SCALE  
1"  
BAR IS ONE INCH ON FULL SIZE (22x34) ORIGINAL DRAWING. ADJUST SCALES AS NECESSARY.

ENGINEER NO.: 191515

CLIENT  
PROJECT NO.:

CAD REF.191515D.TLS.DWG

LOXAHATCHEE RIVER  
ENVIRONMENTAL CONTROL DISTRICT  
OLYMPUS DRIVE FORCE MAIN & LOW PRESSURE SEWER REPLACEMENT

STANDARD DETAILS - SHEET 3

DATE: NOVEMBER 2020

SHEET: 16 of 19

DRAWING: D-3

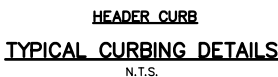
Always call Box two full business days before you die  
**Smashbox**

BID SET





## PAVEMENT MARKING SPECIFICATIONS DETAIL



TYPE	LOCATION
"A"	P.C. AND P.T. OF CURVES JUNCTION OF EXISTING & NEW SIDEWALKS & EVERY 30'
"B"	5'-0" CENTER TO CENTER ON SIDEWALKS SCORED DURING PLACEMENT OR SAWCUT WITHIN 24 HOURS OF PLACEMENT.
"A"	WHERE SIDEWALK ABUTS CONCRETE CURBS, DRIVEWAYS, AND SIMILAR STRUCTURES.





