



ADDENDUM NO. 3

Issue Date: November 24, 2020

Project Name: Kroegel Homestead Improvements

Bid Number: 2021007

Bid Opening Date: **December 1, 2020 at 2:00 p.m.**

This addendum is being released to modify bid documents. The information and documents contained in this addendum are hereby incorporated in the invitation to bid. **This addendum must be acknowledged where indicated on the bid form, or the bid will be declared non-responsive.**

The lift station and sewer testing are removed from the scope of work, per the attached modified plan sheet.

Attachments:

Updated Plan Sheet C5

FDEP SEPARATION CRITERIA:

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

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

(B) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST THREE FEET, AND PREFERABLY TEN FEET, BETWEEN THE OUTSIDE OF THE WATER MAIN AND THE OUTSIDE OF ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER.

(C) NEW OR RELOCATED, UNDERGROUND WATER MAINS SHALL BE LAID TO PROVIDE A HORIZONTAL DISTANCE OF AT LEAST SIX FEET, AND PREFERABLY 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 THREE FEET WHERE THE BOTTOM OF THE WATER MAIN IS LAID AT LEAST SIX INCHES ABOVE THE TOP OF THE SEWER.

(D) 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-6.002, F.A.C.

(2) VERTICAL SEPARATION BETWEEN UNDERGROUND WATER MAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORM WATER FORCE MAINS, AND RECLAIMED WATER PIPELINES.

(A) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED GRAVITY OR VACUUM-TYPE SANITARY SEWER OR STORM SEWER SHALL BE LAID TO THE OUTSIDE OF THE WATER MAIN IS AT LEAST SIX INCHES, AND PREFERABLY 12 INCHES, ABOVE OR AT LEAST 12 INCHES BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

(B) NEW OR RELOCATED, UNDERGROUND WATER MAINS CROSSING ANY EXISTING OR PROPOSED PRESSURE-TYPE SANITARY SEWER, WASTEWATER OR STORM WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER SHALL BE LAID TO THE OUTSIDE OF THE WATER MAIN IS AT LEAST 12 INCHES ABOVE OR BELOW THE OUTSIDE OF THE OTHER PIPELINE. HOWEVER, IT IS PREFERABLE TO LAY THE WATER MAIN ABOVE THE OTHER PIPELINE.

(C) AT THE UTILITY CROSSINGS DESCRIBED IN PARAGRAPHS (A) AND (B) 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 THE WATER MAIN JOINTS ARE AT LEAST THREE FEET FROM ALL JOINTS IN VACUUM-TYPE SANITARY SEWERS, STORM SEWERS, STORM WATER 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.

(3) SEPARATION BETWEEN WATER MAINS AND SANITARY OR STORM SEWER MANHOLES

(A) NO WATER MAIN SHALL PASS THROUGH, OR COME INTO CONTACT WITH, ANY PART OF A SANITARY SEWER MANHOLE.

(B) EFFECTIVE AUGUST 28, 2003, 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.

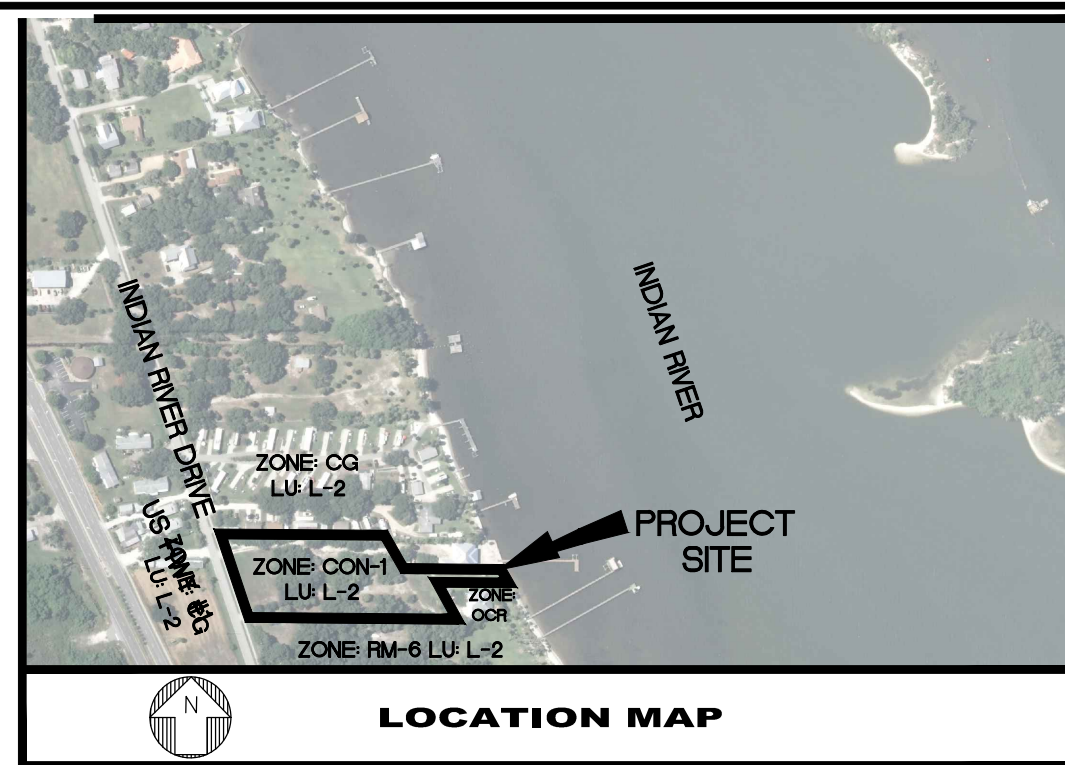
(4) SEPARATION BETWEEN FIRE HYDRANT DRAINS AND SANITARY OR STORM SEWERS, WASTEWATER OR STORM WATER FORCE MAINS, RECLAIMED WATER PIPELINES, AND ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEMS. NEW OR RELOCATED FIRE HYDRANTS WITH UNDERGROUND DRAINS SHALL BE LOCATED SO THAT THE DRAINS ARE AT LEAST THREE FEET FROM ANY EXISTING OR PROPOSED STORM SEWER, STORM WATER FORCE MAIN, OR PIPELINE CONVEYING RECLAIMED WATER REGULATED UNDER PART III OF CHAPTER 62-610, F.A.C. AT LEAST THREE FEET, AND PREFERABLY TEN FEET, FROM ANY EXISTING OR PROPOSED VACUUM-TYPE SANITARY SEWER; AT LEAST SIX FEET, AND PREFERABLY TEN FEET, FROM 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. AND AT LEAST TEN FEET FROM ANY EXISTING OR PROPOSED "ON-SITE SEWAGE TREATMENT AND DISPOSAL SYSTEM" AS DEFINED IN SECTION 381.0065(2), F.S., AND RULE 64E-6.002, F.A.C.

CONFLICT NUMBER	GROUND ELEV.	UPPER PIPE		LOWER PIPE		SEP.		
		SIZE	MATERIAL	SIZE	MATERIAL			
1	5.8	2"	EX. FM (PE)	2.6	1.5"	PROP. WM (PVC)	1.1	1.5
2	5.5	2"	EX. FM (PE)	2.3	1.5"	PROP. WM (PVC)	0.8	1.5
3	5.6	1.5"	PROP. WM (PVC)	2.5	2"	PROP. FM (PVC)	1.0	1.5
4	6.5	6"	PROP. WM (PVC)	3.0	4"	PROP. FM (PVC)	1.5	1.5
5	7.2	14"x23"	PROP. STORM (ERCP)	4.7	4"	PROP. FM (PVC)	2.0	2.7

SEE INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES STANDARD DETAIL M-4 FOR UTILITY CROSSING DETAILS (SHEET C9)

UTILITY NOTES

1. CONSTRUCTION OF THE BATHROOM BUILDING AND LIFT STATION WILL NOT BE CONSTRUCTED WITH THIS PROJECT, BUT UNDER A SEPARATE, LATER PHASE. WATER AND SEWER SERVICES WILL BE BROUGHT TO APPROXIMATELY 3 FEET OUTSIDE OF BATHROOM BUILDING FOR THIS PROJECT. ALL WATER AND SEWER TESTING WILL BE COMPLETED AT THE TIME OF CONNECTION TO THE BATHROOM FACILITY.



NO.	DATE	DESCRIPTION
8	11-24-2020	PHASING
7	09-22-2020	PER I.R.C. COMMENTS
6	05-31-2019	PER I.R.C. STAFF COMMENTS
5	03-30-2019	PER I.R.C. STAFF COMMENTS
4	01-11-2019	PER I.R.C. COMMENTS
3	03-15-2018	PER I.R.C. COMMENTS
2	12-2-2018	PER I.R.C. COMMENTS
1	11-18-2018	UTILITY CONFLICT TABLE

DATE	ISSUED	DATE	ISSUED
17-01-32	TH	JUNE 2017	AGS
DESIGNED	RT	CHECKED	AGS
DRAWN	AGS	DATE	10-07-2020

MBV ENGINEERING, INC.
 MOIA BOWLES VILLAMIZAR & ASSOCIATES
 CONSULTING ENGINEERING CA #5728
 1835 W. 20TH STREET
 MELBOURNE, FL 32909
 PH: (772) 249-0035
 FX: (772) 792-2817

UTILITY PLAN

KROEGEL HOMESTEAD CONSERVATION AREA ACCESS IMPROVEMENTS

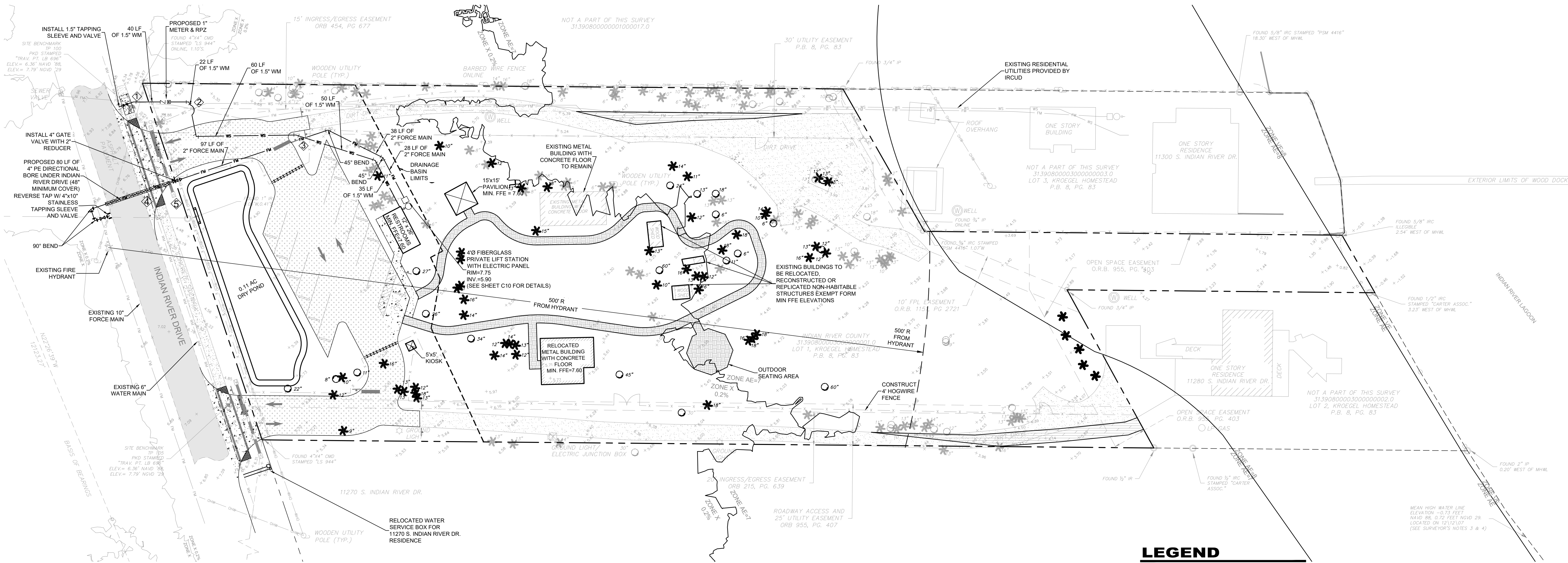
INDIAN RIVER COUNTY, FLORIDA

AARON G. STANTON
 LICENSE No. 72460
 STATE OF FLORIDA
 PROFESSIONAL ENGINEER

AARON G. STANTON
 FL P.E. #72460

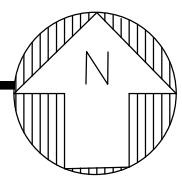
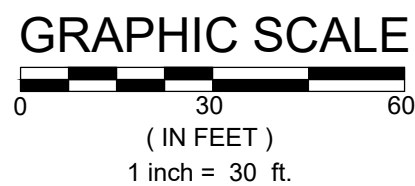
SHEET **C5**

17-0132



UTILITY PLAN

SCALE: 1" = 30'



LEGEND

- EXISTING ASPHALT
- PROPOSED COQUINA WALKING PATH
- EXISTING CONCRETE
- PROPOSED CONCRETE
- PROPOSED ASPHALT MILLINGS
- EXISTING STABILIZED DRIVE
- PROPOSED 4' HOGWIRE FENCE
- PROPOSED VEHICULAR GATES
- PROPOSED DETECTABLE WARNING DOMES

72 HOURS BEFORE DIGGING
 CALL TOLL FREE
811
 Know what's below.
 Call before you dig.

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