

LOCATION MAP

INDEX OF SHEETS

- 1. COVER SHEET
- 2. PROJECT PLAN OVERALL VIEW
- 3. DATUM
- 4.-10. CONSTRUCTION PLANS AND PROFILES
- 11.–15. DETAILS UTILITY CONSTRUCTION STANDARDS
- 16. DETAILS STORMWATER CONTROL STANDARDS







REVIEWED AND APPROVED BY:

FOR BIDDING PURPOSES ONLY

ARJUNA WERAGODA, FL P.E. 64267



NOTES

1. ALL MANHOLES REQUIRE DENSITY TEST

A) (1) ONE SET BETWEEN MANHOLES LESS THAN 200' APART B) (2) TWO SETS BETWEEN MANHOLES 200'-400' APART

C) (3) THREE SETS FOR MANHOLES MORE THAN 400' APART 2. LIFT STATION WETWELL DENSITY TESTING REQUIRED

3. VALVE VAULT UNDERNEATH AND SIDE DENSITY TESTING

REQUIRED

4. SERVICE LATERAL LOCATIONS PER DEPARTMENT OF UTILITY SERVICES INSPECTORS

5. LIFT STATION FENCE SHALL HAVE 12' WIDE OPENING WITH (2) 6' SWING GATE. TYPICAL FENCE CONSTRUCTION DETAIL SHEET 10 OF 15

6) FPL TO DROP POWER SERVICE FOR LIFT STATION. BUILDING PERMIT REQUIRED TO CONSTRUCT ELECTRICAL.

7) CBDG SIGN REQUIRED. SHEET 10 OF 15 FOR CONSTRUCTION DETAILS.

Revision	Date	Ву	RIVER	INDIAN RIVER
				1801 27TH STREE
				VERO BEACH, FLORIDA
			COR 1-	(772) 567-6000

REPORT OF SURVEY:

- TYPE OF SURVEY: LIMITED TOPOGRAPHIC OF THE DOUGLAS SUBDIVISION AS RECORDED IN PLAT BOOK 2, PAGE 52 OF THE PUBLIC RECORDS OF INDIAN RIVER COUNTY, FLORIDA.
- SURVEYOR IN RESPONSIBLE CHARGE: DAVID TAYLOR P.S.M. 5243
- MASTELLER, MOLER, REED & TAYLOR INC. CERTIFICATE OF AUTHORIZATION L.B. 4644 1655 27TH STREET, SUITE 2, VERO BEACH, FLORIDA 32960 PHONE (772) 564-8050
- THIS SURVEY AND REPORT IS NOT VALID WITHOUT THE SIGNATURE AND THE ORIGINAL RAISED SEAL OF A FLORIDA LICENSED SURVEYOR AND MAPPER. ADDITIONS OR DELETIONS TO THE SURVEY MAP AND/OR REPORT OF SURVEY BY OTHER THAN THE SIGNING PARTY OR PARTIES IS PROHIBITED WITHOUT WRITTEN CONSENT OF THE SIGNING PARTY OR PARTIES.
- HORIZONTAL CONTROL ACCURACY: THE EXPECTED USE OF THE SURVEY MAP AND REPORT FOR THE LAND, AS CLASSIFIED IN THE MINIMUM TECHNICAL STANDARDS (5J–17 FAC) IS SUBURBAN. THE MINIMUM RELATIVE DISTANCE ACCURACY FOR THIS TYPE OF BOUNDARY CONTROL SURVEY IS 1 FOOT IN 7500 FEET. THE ACCURACY OBTAINED BY MEASUREMENT AND CALCULATION OF A CLOSED GEOMETRIC FIGURE OR REDUNDANCY OF MEASUREMENT WAS FOUND TO MEET OR EXCEED THIS REQUIREMENT.
- HORIZONTAL FEATURE ACCURACY: TOPOGRAPHIC LAND FEATURES (SIGNS, INLETS, VALVES, MAILBOXES, POWERPOLES, DRIVEWAYS, CULVERTS AND SIMILAR FEATURES) HAVE A HORIZONTAL FEATURE ACCURACY OF PLUS OR MINUS 0.25 FEET.
- VERTICAL CONTROL ACCURACY: VERTICAL CONTROL AS ESTABLISHED FOR THIS PROJECT SITE IS ACCURATE TO PLUS OR MINUS 0.05 FEET TIMES THE SQUARE ROOT OF THE DISTANCE IN MILES.
- ELEVATIONS OF WELL-IDENTIFIED FEATURES CONTAINED IN THIS SURVEY AND MAP HAVE BEEN MEASURED TO AN ESTIMATED VERTICAL POSITION ACCURACY OF PLUS OR MINUS 0.10 FEET.
- DATA ACQUISITION WAS OBTAINED DURING THE FOLLOWING TIME FRAME OR DATE: 12/2013
- THE BEARING BASE FOR THIS SURVEY IS AS FOLLOWS: A) GRID NORTH
- B) THE LINE BETWEEN TWO SET CONTROL POINTS AS DEPICTED. C) SAID LINE BEARS SOUTH 89°27'01" EAST.

NO INSTRUMENTS OF RECORD REFLECTING EASEMENTS. RIGHTS-OF-WAY AND/OR OWNERSHIP WERE FURNISHED TO THIS SURVEYOR EXCEPT AS SHOWN. NO TITLE OPINION IS EXPRESSED OR IMPLIED.

THIS SURVEY DOES NOT CERTIFY TO THE EXISTENCE OR LOCATION OF ANY FOUNDATIONS, UTILITIES, UNDERGROUND ENCROACHMENTS OR IMPROVEMENTS EXCEPT AS SHOWN.

UNLESS A COMPARISON IS SHOWN, PLAT VALUES & MEASURED VALUES ARE THE SAME.

ALL MEASUREMENTS ARE IN FEET AND DECIMAL PARTS THEREOF AND ARE IN ACCORDANCE WITH THE STANDARDS OF THE UNITED STATES.

THE HORIZONTAL VALUES SHOWN HEREON REFER TO THE STATE PLANE COORDINATE SYSTEM, FLORIDA EAST ZONE, NAD 83 (NGS ADJUSTMENT OF 1990).

PROPERTY LINE AND RIGHT-OF-WAY INFORMATION SHOWN HEREON ARE APPROXIMATE AND DEPICTED FOR INFORMATIONAL PURPOSES ONLY. THE LINES, AS DEPICTED WERE PROVIDED BY INDIAN RIVER COUNTY. NO SURVEY HAS BEEN PERFORMED TO CONFIRM THEIR ACCURACY.

BENCHMARK NOTE:

THE ELEVATIONS AS SHOWN ON THIS SURVEY ARE BASED ON THE NORTH AMERICAN VERTICAL DATUM OF 1988. THE PRIMARY BENCHMARKS FOR THIS SURVEY IS INDIAN RIVER COUNTY BENCHMARKS BM#023003 ELEVATION = 23.84' AND BM# 217012 ELEVATION=23.61'NAVD 1988. SITE BENCHMARKS ARE AS DEPICTED.

VERTICAL CONTROL ACCURACY: VERTICAL CONTROL AS ESTABLISHED FOR THIS PROJECT SITE IS ACCURATE TO PLUS OR MINUS 0.05 FEET TIMES THE SQUARE ROOT OF THE DISTANCE IN MILES.

ELEVATIONS OF WELL-IDENTIFIED FEATURES CONTAINED IN THIS SURVEY AND MAP HAVE BEEN MEASURED TO AN ESTIMATED VERTICAL POSITION ACCURACY OF PLUS OR MINUS 0.10 FEET.

CERTIFIED TO:

1) INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES

THE CONVERSION FROM THE DEPICTED NAVD 88 ELEVATIONS TO NGVD 29 ELEVATIONS IS 1.43' BASED UPON THE PUBLISHED ELEVATIONS OF INDIAN RIVER COUNTY BM #023003, 25.27'(NGVD '29) -23.84'(NAVD'88) = 1.43'.

UTILITY CONSTRUCTION NOTES:

1. SOD ALL DISTURBED AREAS IN KIND 2. RESTORE ALL DRIVEWAYS IN KIND IF DISTURBED. CONCRETE DRIVEWAYS IF DISTURBED SHALL BE REPLACED FROM RIGHT OF WAY LINE TO EDGE OF PAVEMENT. 3. CONTRACTOR SHALL NOT DISTURB POTABLE WATER SERVICES SERVING EXISTING CUSTOMERS.

VERTICAL DATUM 1988 NAVD

REVIEWED AND APPROVED BY:

NOTE: CONTRACTOR SHALL NOTIFY PUBLIC WORKS DIVISION BEFORE COMMENCEMENT OF WORK IN THE RIGHT OF WAY

COUNTY	DEPARTMENT OF	DRAWN BY: -ART- DATE: NOVEMBER 2018	WEST WARASSO PHASE 2	DATUM – DOUGLAS SUBDIVISION	SHEET
		DESIGNED BY: -ART- SCAL F: NUNF	VILJI VIADAJJU ITIAJL Z		3
32960	UTUITV SERVICES	CHECKED BY:	CRAVITY SEWER SYSTEM	64TH AVE 63RD CT 63RD AVE 62ND AVE 84TH S	J 1C
		APPROVED BY: UCP No. 4103	UNAVITI JEVEN JIJIEV	$\begin{bmatrix} 0 & 1 & 1 \\ 1 & 1 $	

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20	IRON ROD AN IRON PIPE LENGTH
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M)	MEASURED
IFS	MITERED END
L.D.	NAIL & DISK
10.	NUMBER
.R.B.	OFFICIAL REC
.C.P.	PERMANENT
P)	PLAT
/Έ	POOL EQUIPN
.L.S.	PROFESSIONA
.B.	PLAT BOOK
.ı.	POINT OF INT
.R.D.	PLANNED RES
.R.M.	PERMANENT
.S.M.	PROFESSIONA
.U.D.E.	PUBLIC UTILI
GE. :.L.S. CP /W	RADIUS RANGE REGISTERED REINFORCED RIGHT OF WA
-C.	SECTION
TA.	STATION
P.C.	STATE PLANE
FF.	OFFSET
VP.	TOWNSHIP
E.	UTILITY EASEI

FP



ONING PAD

ABBREVIATIONS AND SYMBOLS

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LAND SURVEYOR CONCRETE PIPE

COORDINATE

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	DRAINAGE MANHOLE	¢
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	HYDRANT	
WV	WATER VALVE	
	WATER METER	J.
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	CATCH BASIN	UGW
	CURB INLET	
RUV	REUSE WATER VALVE	
	IRRIGATION VALVE	
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e.We	REUSE WATER METER	=ø=
КС	BLOW-OFF	#42
Ρ	PULL BOX	
GV	GAS VALVE	19.50
STOP	STOP SIGN	-77-
INFO	TRAFFIC SIGN	\sim
ГТ Т	TELEPHONE PAD	\bigcirc
SEPT.	SEPTIC TANK	\square
N.G.V.D. N.A.V.D. CBS OE F.D.E.P.	NATIONAL GEODETIC VERTICAL E NORTH AMERICAN VERTICAL DA CONCRETE BLOCK STUCCO OVERHEAD ELECTRIC FLORIDA DEPARTMENT OF	DATUM TUM

ENVIRONMENTAL PROTECTION

STREET SIGN
YARD LIGHT
MAIL OR PAPER BOX
SOUTHERN BELL BOX
CABLE TV BOX
POWER POLE
ELECTRIC BOX
UNDERGROUND UTILITIES SIGN
MONITORING WELL
SANITARY VALVE
TELEPHONE MANHOLE
POST WOOD OR STEEL
CONCRETE POWER POLE
TRANSFORMER PAD
TRANSFORMER PAD BACK FLOW PREVENTER
TRANSFORMER PAD BACK FLOW PREVENTER SPRINKLER HEAD
TRANSFORMER PAD BACK FLOW PREVENTER SPRINKLER HEAD BENCHMARK

OAK

PINE

PALM

SHRUB

MAPLE

CITRUS

CYPRUS

MISC. TREE

GUY WIRE STREET LIGHT

STOP LIGHT ELECTRIC MANHOLE DRAIN CLEAN OUT TRAFFIC SIGNAL BOX

FOR BIDDING PURPOSES ONLY

ARJUNA WERAGODA, FL P.E. 64267



NDTE: CO	INTRACTOR	SHALL	NDTIFY	PUBLIC	WORKS	DI∨ISI⊡N	REVI.
BEFORE	COMMENCE	MENT DF	- WORK	IN THE	RIGHT	OF WAY	

UNTY	DEPARTMENT OF	DRAWN BY: -ART-	DATE: NOVEMBER 2018	WEST WARA
		DESIGNED BY: - ART-		I VILJI VIADA
0		CHECKED BY:		
с 	UTILITY SERVICES	APPROVED BY:	UCP No. 4103	GRAVIII SE

	BEFORE COMMENCEME	NT OF WORK	IN THE RIGHT	OF WAY	
UNTY	DEPARTMENT OF	DRAWN BY: -ART-	DATE: NOVEMBER 2018	WEST WARASSO PHASE 2	
30		CHECKED BY: -ART-	SCALE: NOTED		
	UTILITY SERVICES	APPROVED BY:	UCP No. 4103	GRAVILI SEWER SISIEM	
			·		-

PRO 8" F	SLOPE 0.35%	S PROPOSED GRAVITY SEWER 8" PVC-40 LF SLOPE 0.35%	PROPOSE 8" PVC- SLOPE 0.	D GRAVITY SEWER 385 LF		14 12 10 INVERT s 8 6		
843-	+00 844+00 84	CT STATION TH PLACE SCALE:	846+00 NOTE: N PAVEME MANHOL VERTICAL 1" = 4'	847+00 NDTH OF PAVEMENT VARIES NT IS NOT CENTERED IN THE R.O.W. ES TO BE LOCATED IN CROWN OF PAVEMENT	848+00 र्लि	849+00		
	NDTE: CONT BEFORE CI	RACTOR SHALL N OMMENCEMENT OF	OTIFY PUBLIC WORKS WORK IN THE RIGHT	DIVISION REVIEWED A OF WAY	AND APPROVED BY:	FOR BIDDING PURP ARJUNA WERAGODA, FL	<u>POSES ONLY</u> P.E. 64267	
UNTY »	DEPARTMENT UTILITY SER	OF DRAWN BY: DESIGNED BY: CHECKED BY: APPROVED BY: DESIGNED BY: DESIGN	-ART-DATE:NOVEMBER 2018-ART-SCALE:NOTEDUCP No.4103	WEST WABASSO F GRAVITY SEWER S	PHASE 2 System	CONSTRUCTION PLAN 84TH PLACE SOUTH	I & PROFILE OF CR 510	SHEET 8 OF 16

84TH PLACE – SOUTH OF CR 510

MANHOLE 10 STA 844+80.59 E. INVERT 8.97 W. INVERT 9.81' N. INVERT 8.87'

MANHOLE 6 STA 844+33.53 F.IM 22.14' E. INVERT 9.95' W. INVERT 10.05' S. INVERT 11.92'

EXISTING WATER MAIN 6" F

					NDTE: CONTRACTOR SEEFORE COMMENCEME	HALL NOTIFY ENT OF WORK	PUBLIC WORKS IN THE RIGHT	DIVISION REV OF WAY
Revision	Date	By	RIVER	INDIAN RIVER COUNTY	DEPARTMENT OF	DRAWN BY: -ART-	DATE: NOVEMBER 2018	
						DESIGNED BY: -ART-		WEST WADA
				VERO BEACH, FLORIDA 32960	IITIITV GEDVICES	CHECKED BY:		CRAVITY SE
			CORIDA	(772) 567-8000	UIILIII SERVICES	APPROVED BY:	UCP No. 4103	UNAVIII JL

						EAST
		< 10.7				26
		V. INVERT	AANHOLE STA 110+		WANHOLE STA 113+ W. INVER W. INVER	24
		12.77' 12.72'	16 79.75		-17 -6.67 7 13.64 7 13.54	22
						20
				EXISTING W	VATER MAIN 6" PVC	18
						16
	PROPOSED GRAVITY SEW 8" PVC-200 LF	NER		PROPOSED GRAVITY SEWER 8" PVC-220 LF	I INVERT S	14
				SLOPE 0.35%	6	12
	SLOPE 0.35%				2ND	10
					AVE	8
						6
9+00	850)+00	851+00	852+00	863+00	
		84TH	STREET SCAL	E: HORIZONTAL 1"=40' VERTICAL 1" = 4'		

84TH STREET - SOUTH OF CR 510

/IEWED AND APPROVE	D BY:FOR BIDDING PURPOSES ONLY ARJUNA WERAGODA, FL P.E. 64267	
ASSO PHASE 2 EWER SYSTEM	CONSTRUCTION PLAN & PROFILE 9 84th STREET SOUTH OF COUNTY ROAD 510 0F 16	•

INTY	DEPARTMENT OF	DRAWN BY: -ART-	DATE: DECEMBER 2015	WEST WARAS
		DESIGNED BY: - ART-	SCALE: NOTED	VVLJI VVADA
		CHECKED BY:	SCALE. NOTED	GRAVITY SE
	UTILITY SERVICES	APPROVED BY:	UCP No. 4103	

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		1801
	VERO	BEA

COUNTY	DEPARTMENT OF	DRAWN BY: -ART-	DATE: NOVEMBER 2018	
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32960	IITIITV GEDVICES	CHECKED BY:		
	UIILIII SERVICES	APPROVED BY:	UCP No. 4103	GIAVITI J

Revision	Date	By	RIVER	INDIAN RI	VFP
				IINDIAIN IVI	VLLV
				1801 2 VERO BEACE	7TH STREI I. FLORIDA
			LURIDA	(772)	567-8000

- survey route and shall then be tied to the survey base line.

- previously stated footage shall be shown on plans.
- platted. If construction project is along back of lots, then show back lot dimensions.
- excavation.)

- elevations.)
- area of construction.

- 14. All other non-movable items such as mailboxes, flag poles, etc.
- plan.

CONTRACTORS ARE ADVISED TO REVIEW THE INDIAN RIVER COUNTY DEPARTMENT OF UTILITY SERVICES WATER, WASTEWATER AND RECLAIMED WATER UTILITY CONSTRUCTION STANDARDS - MARCH 2018

COUNTY	DEPARTMENT OF	DRAWN BY: -ART-	DATE: NOVEMBER 2018	
		DESIGNED BY: -ART-		WEST WAI
32960 0	UTILITY SERVICES	CHECKED BY:	UCP No. 4103	GRAVITY S

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COUNTY	DEPARTMENT OF	DRAWN BY: -ART-	DATE: NOVEMBER 2018	
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	UTILITY SERVICES	CHECKED BY: APPROVED BY:	UCP No. 4103	GRAVITY S

2' SOD
0.2' MIN. ABOVE BACK OF CURB
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-1

FOR BIDDING PURPOSES ONLY ARJUNA WERAGODA, FL P.E. 64267

BASSO PHASE 2 SEWER SYSTEM

UTILITY CONSTRUCTION STANDARDS

RIGHT OF WAY RESTORATION

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MAINTENANCE OF TRAFFIC

1. THE CONTRACTOR SHALL INSTALL STAND MOUNTED ADVANCE CONTRUCTION SIGNING IN ACCORDANCE WITH F.D.O.T. STANDARD INDEX 602 FOR ANY WORK LESS THAN 15 FEET FROM THE EDGE OF PAVEMENT.

2. THERE SHALL BE NO EXCAVATIONS LEFT OPEN WHEN WORK IS NOT ACTIVELY BEING PERFORMED.

3. TRAFFIC SHALL BE RESTRICTED TO A SINGLE LANE WHEN ANY WORK ENCROACHESES THE AREA BETWEEN THE CENTERLINE AND 2 FEET OUTSIDE THE EDGE OF PAVEMENT. ONE-LANE CLOSURES SHALL BE IN ACCORDANCE WITH F.D.O.T. STANDARD INDEX 603. TRAFFIC ENGINEERING SHALL BE NOTIFIED 24 HOURS IN ADVANCE OF ANY LANE CLOSINGS.

4. ALL CONSTRUCTION EQUIPMENT AND MATERIALS SHALL BE STORED A MINIMUM OF 15 FEET FROM THE EDGE OF PAVEMENT AND SHALL BE PROTECTED BY TYPE II BARRICADES WITH FLASHING LIGHTS

5. CONSTRUCTION FENCING USED IN THE WORK AREA TO PROTECT EQUIPMENT OR EXCAVATIONS SHALL NOT BLOCK SIGHT DISTANCE NEAR INTERSECTIONS OR DRIVEWAYS.

6. THE APPLICANT/CONTRACTOR SHALL NOTIFY IRC TRAFFIC ENGINEERING AT (772) 226-1326, 72 HOURS PRIOR TO BEGINNING CONSTRUCTION. TRAFFIC ENGINEERING STAFF WILL NOTIFY AL EMERGENCY AGENCIES WITHIN INDIAN RIVER COUNTY.

7. ACCESS TO PROPERTY OWNERS AS WELL AS EMERGENCY ACCESS SHALL BE MAINTAINED AT ALL TIMES.

8. INDIAN RIVER COUNTY TRAFFIC ENGINEERING HAS UNDERGROUND CONDUIT FOR TRAFFIC SIGNAL INTERCONNECTIONS IN THIS AREA AS WELL AS OTHER TRAFFIC SIGNAL EQUIPMENT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO CONTACT SUNSHINE STATE ONE CALL SYSTEM AT 1-800-432-4770 FOR LOCATIONS OF THIS EQUIPMENT AT LEAST 72 HOURS PRIOR TO ANY CONSTRUCTION.

RESTORATION

9. ALL RIGHT OF WAY SHALL BE RESTORED IN LIKE OR BETTER CONDITION INCLUDING SIDEWALKS, DRIVEWAYS AND DRAINAGE.

10. SOD REQUIRED WITHIN THREE DAYS OF FINAL GRADING.

11. THE ROADWAY CROSS SECTION SHALL BE PER IRC ROADWAY STANDARDS. 64TH AVE SHALL BE RECONSTRUCTED PER MINOR COLLECTOR, AND THE OTHER STREETS SHALL MEET LOCAL ROADWAY STANDARDS AS OUTLINED IN LDR SECTIONS 913 AND 952.

12. PAVEMENT SHALL BE SAW CUT AT ENDS OF PROJECT AND FOR ALL TRENCHING. EXISTING ASPHALT SHALL BE REMOVED. BASE (6" THICK) SHALL BE RECONSTRUCTED WITH PROPER DENSITY AND ROADWAY SHALL BE REPAVED WITH OVERLAY TO MEET STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE.

SURFACE

13. 1" TYPE SP-9.5 (TRAFFIC LEVEL C) ASPHALTIC CONCRETE SURFACE COURSE OVER 1 ½" TYPE SP-12.5 (TRAFFIC LEVEL C) ASPHALTIC CONCRETE

STRUCTURAL COURSE

14. 6" CEMENTED COQUINA SHELL (BASE GROUP 6) WITH RC-70 PRIME COAT LBR 100

STABILIZATION (SHOULDER & ROADWAY 8" STABILIZATION - TYPE B LBR 40

RIVER COUNTY	DEPARTMENT OF	DRAWN BY: -ART-	DATE: NOVEMBER 2018	
		DESIGNED BY: -ART-		I VVEJI VVAC
BEACH, FLORIDA 32960	IITIIITV GEDVICES	CHECKED BY:		
(561) 567-8000	UILLII SERVICES	APPROVED BY:	UCP No. 4103	GINAVITI L