

AGENDA ITEM SUMMARY

Meeting Date:	AUGUST 21, 2019
Agenda Category:	CONSENT BUSINESS
Agenda Item Number:	10 G
Subject:	LIFT STATION 3 BULKHEAD WALL REHABILITATION (WASTEWATER TREATMENT DEPARTMENT)

Attachments:	Memorandum; proposal
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Staff Contact:	Wastewater Treatment Director Elmore
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Background:	<p>As a result of damage caused by Hurricane Irma in 2017, a portion of a bulkhead wall along the Indian River Lagoon collapsed. The south end of said wall is where the City's Lift Station 3 is located. Jacobs Engineering completed the rehabilitation design plans, and a quote has been received from W & J Construction for the requisite repairs. The Wastewater Treatment Department is requesting authorization to piggyback on an existing Brevard County contract with W & J, which was subject to the County's full procurement process. The total project cost is \$338,621.00, the majority of which (\$315,892.14) will come from Account No. 400-0036-535.4670 (Lift Station 3 Retaining Wall), along with a request to supplement the remainder (\$22,728.86) from 400-0037-535.6404.</p>
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Reference:	Wastewater Treatment budget
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Suggested Action:	Authorize staff to piggyback on a contract with W & J in order to proceed with the necessary repairs to Lift Station 3/bulkhead wall and to reallocate the amount of \$22,728.86 from Account No. 400-0037-535.6404 (Barton Forcemain)
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MEMORANDUM

TO: Dr. Brenda Fettrow, City Manager
FROM: Jim Elmore, WWT Director
DATE: August 12, 2019
SUBJECT: Lift Station 3 Bulkhead Wall - Rehabilitation



*approved to
go to Council.
Dr. Fettrow
8/12/2019*

In September 2017 due to the effects of Hurricane Irma, a portion of a bulkhead wall along the Indian River Lagoon in our City collapsed. The south end of that wall retains the soil where City Lift Station 3 is located.

Jacobs Engineering has completed the rehabilitation design plans to repair this structure and we have received a quote from W&J Construction Corp. to make the necessary repairs. Since we are in Hurricane season, I would like this work to be completed as soon as possible.

I am requesting Council's approval to piggyback on an existing Brevard County contract with W&J Construction, which went through the County's full procurement process.

The total cost of this project is \$338,621.00 and if approved by Council, those funds would come from the following sources: \$315,892.14 from Lift Station 3 Retaining Wall account 400-0036-535.4670 and request to reallocate \$22,728.86 from 400-0037-535.6404.

Submitted for council's approval.

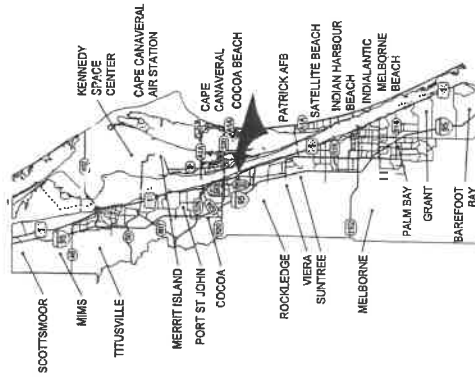
Item	Sec	Description	Material	Labor	Sub	Subcontractor Name
		A/E Design Phase Fees	0	0	0	By Owner
		A/E Construction Phase Fees	0	0	0	By Owner
General Conditions						
1		General Conditions (9 Weeks)	0	23,600	19,219	W&J
2		Protected Species Observer	0	0	0	Excluded
3		Misc Material Testing	0	0	0	By Owner
Bulkhead Wall						
4		Mobilization	0	0	1,500	Goodson
5		MOT	0	0	4,500	Goodson
6		Dewatering System	0	0	34,275	Goodson
6a		Aqua Barrier	0	0	13,054	HSI Services
7		Erosion and Sedimentation Control	0	0	0	Goodson In Line 6
8		Demo Curb and Asphalt	0	0	2,640	Goodson
9		Excavate And Backfill for Deadmen	0	0	7,210	Goodson
10		Install Base Rock and Asphalt	0	0	18,651	Goodson
11		New Curb	0	0	3,600	Goodson
12		Striping	0	0	1,245	Goodson
13		Fine Grade and Sod Restoration	0	0	3,200	Goodson
14		Environmental Erosion Control Reporting	0	0	2,800	W&J
15		Utility Locates	0	0	1,000	W&J
16		Concrete Wall and Deadmen	0	0	133,000	Leo's Concrete
17		Misc Electrical at Lift Station	0	0	2,000	W&J
Subtotals			0	23,600	247,894	
Sales Tax/PT&I (7/33)			0	9,440		
Total			0	33,040	33,040	
					280,934	
Permit Allowance					0	Excluded/By City
General Liability Insurance (%)					2,878	
Builder's Risk (Per \$100)					1,632	
Contingency (%)			10.00		28,093	
Bond					0	Excluded
Hurricane Surcharge			1.50%		0	
Cost					313,538	
Overhead and Profit					25,083	
Total					338,621	

BULKHEAD WALL REHABILITATION

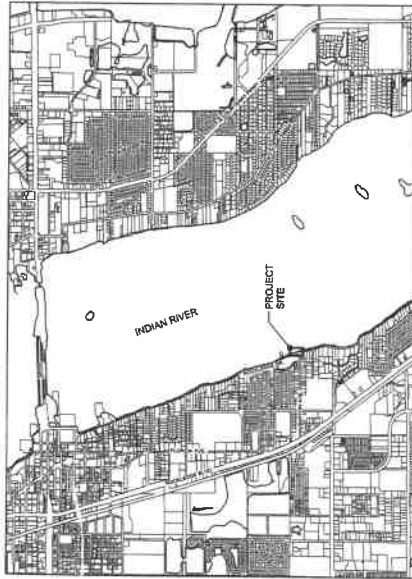
CITY OF ROCKLEDGE
ROCKLEDGE, FL



ROCKLEDGE Florida
Preserving the past...planning the future



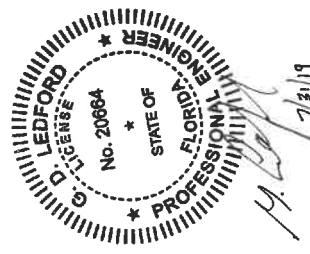
BREVARD COUNTY MAP



VICINITY MAP

INDEX OF DRAWINGS

SHEET	DESCRIPTION
GENERAL	COVER SHEET, VICINITY MAP, AND INDEX OF DRAWINGS
C-402	SYMBOLS, LEGEND AND ABBREVIATIONS
C-403	GENERAL NOTES
STRUCTURAL	SITE PLAN
S-101	BULKHEAD WALL DETAILS
S-401	REFERENCE
R-101	ORIGINAL SURVEY DRAWING



100% REVIEW SET
JULY 25, 2018

JACOBS
1906 BUNTINGTON LANE
ROCKLEDGE, FL 32955

GENERAL
COVER SHEET, VICINITY MAP, AND INDEX OF DRAWINGS

REVISION

NO.	DATE	BY	APP'D

DATE: JULY 25, 2018
PROJ: C3173000
DWG: G-001

ISSUED FOR 100% REVIEW
PLOT TIME: 2:10 PM
PLOT DATE: 7/25/2018

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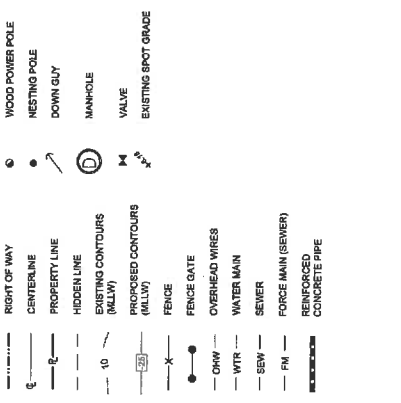
ABBREVIATIONS

AC ASBESTOS CONCRETE
AD AMERICAN CONCRETE INSTITUTE
ASC AMERICAN SOCIETY OF CIVIL ENGINEERS
ASCE AMERICAN SOCIETY OF CIVIL ENGINEERS

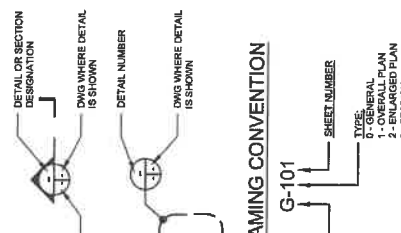
ABBREVIATIONS

REF REFERENCE
REINF REINFORCEMENT
REQ REQUIRED
RHW RESTRAINED MECHANICAL JOINT

LEGEND (LINE TYPES AND SYMBOLS)



SYMBOLS



SHEET NAMING CONVENTION

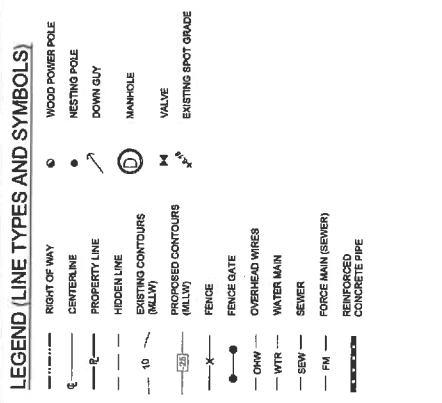


DRAWING REFERENCE CALLOUT EXAMPLE

G-101 - G-100 DASH DENOTES CONSECUTIVE DRAWINGS (IE G-101, G-102, G-103)

ABBREVIATIONS (continued)
ASBESTOS CONCRETE
AMERICAN CONCRETE INSTITUTE
AMERICAN INSTITUTE OF STEEL CONSTRUCTION

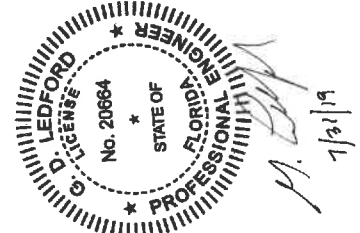
ABBREVIATIONS (continued)
REF REFERENCE
REINF REINFORCEMENT
REQ REQUIRED



1600 MONTGOMERY LANE
ROCKLEDGE, FL 33555
CITY OF ROCKLEDGE, FLORIDA
ROCKLEDGE, FLORIDA 33555

JACOBS
GENERAL
SYMBOLS, LEGEND
AND ABBREVIATIONS

ISSUED FOR 100% REVIEW
DATE: JULY 26, 2018
PROJECT: D01783000
DWG: G-002
PLOT TIME: 2:10 PM



GENERAL NOTES:

- THE SCOPE OF WORK CONSISTS OF DEVELOPMENT OF A NEW BULKHEAD WALL AND ANCHOR SYSTEM.
- THIS PROJECT IS LOCATED IN THE CITY OF ROCKLEDGE.
- REFER TO ENVIRONMENTAL PROTECTION SPECIFICATIONS AND PERMITS ESPECIALLY IN REGARDS TO WORK IN THE WATER.
- THE VERTICAL DATUM USED FOR THESE PLANS ARE BASED ON NAVD 83, UNLESS OTHERWISE NOTED.
- THE INFORMATION SHOWN ON THESE DRAWINGS CONCERNING TYPE AND LOCATION OF UNDERGROUND AND SURFACE UTILITIES IS BASED ON AVAILABLE RECORDS AND SURVEYS, BUT IS NOT GUARANTEED TO BE ACCURATE OR COMPLETE. THE CONTRACTOR SHALL VERIFY THE TYPE AND LOCATION OF UTILITIES AS MAY BE NECESSARY TO AVOID DAMAGE AND IS RESPONSIBLE TO CONTACT THE ENGINEER FOR COORDINATING UTILITY RELOCATION WITH PROJECT REQUIREMENTS. ALL UTILITIES BEING MOVED TO ACCOMMODATE THIS PROJECT, EXCEPT COORDINATION AND SCHEDULE IMPACTS.
- THE CONTRACTOR SHALL BECOME FAMILIAR WITH AND ADHERE TO ALL PROJECT PERMITS AND THEIR CONDITIONS.
- THE CONTRACTOR SHALL NOTIFY ALL UTILITY OWNERS 48 HOURS PRIOR TO ANY EXCAVATION. TICKETS MUST BE KEPT UP TO DATE DURING CONSTRUCTION (CALL 811 FOR UTILITY LOCATES).
- UTILITY CONTACTS:
 - WASTE WATER
CITY OF ROCKLEDGE
1000 ROCKLEDGE FL 32955
321-221-7540
- ALL ITEMS DAMAGED SHALL BE RESTORED TO PRIOR CONDITION OR IMPROVED CONDITION DAMAGED OR REMOVED FENCING SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR IS RESPONSIBLE TO REMOVE ALL CONSTRUCTION DEBRIS FROM JOB SITE AND PROPERLY DISPOSE OFF SITE.
- ALL EXCAVATIONS SHALL BE PERFORMED IN ACCORDANCE WITH THE CONTRACTOR'S EXCAVATION SUPPORT AND PROTECTION PLAN. EXCAVATIONS OF GREATER DEPTH THAN 5-FT. SHALL COMPLY WITH THE CURRENT OSHA REGULATIONS AND REQUIREMENTS. ALL EXCAVATIONS SHALL BE PROTECTED WITH ALL WARNING AND/OR BARRIERS. ANY EXCAVATION WITHIN THE CLEAR ZONE SHALL ALSO COMPLY WITH ALL WARNING AND/OR BARRIERS. ANY REQUIREMENTS OF FOOT INDEX NO. 808, WHEN TRENCH BOXES ARE UTILIZED, PROVIDE ADEQUATE CLEARANCES TO OBTAIN REQUIRED COMPACTION.
- QUANTITIES WHEN PROVIDED ARE APPROXIMATE. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PERFORM THEIR OWN TAKE-OFFS PRIOR TO SUBMITTAL OF BIDS AND BEGINNING WORK.
- ALL DIMENSIONS AND EXISTING GEOMETRY SHALL BE FIELD VERIFIED. ELEVATIONS AND ALIGNMENTS SHOWN ON THE DRAWINGS ARE BASED ON THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL OBTAIN THE SERVICES OF A PROFESSIONAL SURVEYOR TO VERIFY EXISTING CONDITIONS AND TO SET LINES AND ELEVATIONS.
- CONTRACTOR SHALL REFER TO SHOP DRAWINGS FOR COORDINATION AND LOCATION OF ALL ITEMS EMBEDDED IN CONCRETE.
- IF REQUIREMENTS PRESENTED ON THE DRAWINGS AND SPECIFICATIONS ARE NOT IN AGREEMENT, THE SPECIFICATIONS TAKE PRIORITY.
- BEST MANAGEMENT PRACTICES FOR TURBIDITY CONTROL SHALL BE USED AT ALL TIMES DURING CONSTRUCTION ACTIVITIES TO PREVENT TURBID DISCHARGES IN EXCESS OF STATE WATER QUALITY STANDARDS. REFER TO APPENDIX A OF THE SPECIFICATION FOR PERMITS.
- GEOTECHNICAL REPORT:
UNIVERSAL ENGINEERING SERVICES, INC.
UNIVERSAL PROJECT NO. 02031190240.0000 DATED APRIL 24, 2019

DESIGN REFERENCES:

- ACI 318-10-AMERICAN CONCRETE INSTITUTE'S BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETES, 2010 EDITION
 - ASCA-AMERICAN INSTITUTE OF STEEL CONSTRUCTION'S STEEL CONSTRUCTION MANUAL (INCLUDING ASC 300-03), 13TH EDITION.
 - CRSI - CONCRETE REINFORCING STEEL INSTITUTE'S 'MANUAL OF STANDARD PRACTICE'.
 - AWS D1.1 - AMERICAN WELDING SOCIETY'S 'STRUCTURAL WELDING CODE-STEEL', 2010 EDITION.
 - AWS D1.6 - AMERICAN WELDING SOCIETY'S 'STRUCTURAL WELDING CODE-STAINLESS STEEL', 2007 EDITION.
- STRUCTURAL STEEL:**
- ALL STEEL WORK SHALL CONFORM TO AISC'S STEEL CONSTRUCTION MANUAL.
 - PROVIDE STEEL COMPONENTS IN ACCORDANCE WITH THE FOLLOWING SPECIFICATIONS:
 - PLATES AND MISCELLANEOUS STEEL = ASTM A572, GR 50.
 - ALL BOLTS MUST CONFORM TO ASTM A325 UNLESS NOTED OTHERWISE AND SHALL BE HOT DIPPED GALVANIZED.
 - ALL CONCRETE EMBEDDED ITEMS SHALL BE 310# STAINLESS STEEL UNLESS OTHERWISE NOTED.

CONCRETE:

- ALL CONCRETE WORK SHALL CONFORM TO ACI 301. SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS SHALL INCLUDE A SMOOTH FORM FINISH AND 15 MI. 48 DES. CHAMFERED EDGES WHEN EXPOSED TO VIEW. PROVIDE BROOM FINISH OVER DECK SURFACE.
 - ALL CEMENT SHALL CONFORM TO ASTM C150, TYPE I.
 - STRUCTURAL CONCRETE SHALL HAVE THE PROPERTIES OUTLINED BELOW:
 - MIN QUANTITY PORTLAND CEMENT: 675 LBS/CU YD
 - MIN QUANTITY PORTLAND CEMENT: 240 LBS/CU YD
 - MIN QUANTITY AGGREGATE: 2000 LBS/CU YD
 - CALCULATED WATER-CEMENT RATIO: 0.37
 - ADDMIXTURES: GROUND GRANULATED BLAST FURNACE SLAG AND CRYSTALLINE WATERPROOFING ADDITIVE
 - SUMP RANGE: 4 TO 6 INCHES
 - AIR CONTENT RANGE: 1% TO 3%
 - ALL FORM WORK SHALL REMAIN UNDISTURBED UNTIL CONCRETE HAS REACHED 70% OF ITS MINIMUM REQUIRED 28 DAY COMPRESSIVE STRENGTH.
 - ALL GROUT SHALL BE NON-SHRINK, NON-CORROSIVE, NON-METALLIC HAVING A MINIMUM COMPRESSIVE STRENGTH OF 5,000 PSI, UNLESS SPECIFIED OTHERWISE.
 - CONSTRUCTION JOINT LOCATIONS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL, AND SHALL NOT BE SPACED MORE THAN 60 FT ON CENTER.
- POST INSTALLED ANCHORS AND DOWELS:**
- INSTALLATION OF ALL POST INSTALLED ANCHORS AND DOWELS SHALL BE IN STRICT ACCORDANCE WITH THE REQUIREMENTS ESTABLISHED BY THE PRODUCT MANUFACTURERS.
 - INSTALLERS SHALL RECEIVE TRAINING AND BE CERTIFIED BY THE ANCHOR MANUFACTURER FOR INSTALLATION, HANDLING AND STORAGE OF THE SPECIFIC TYPES OF ADHESIVE AND ANCHORS. ALL ANCHORS AND CONTRACT DOCUMENTS, SUBMIT PROOF OF CERTIFICATION TO ENGINEER PRIOR TO WORK BEING PERFORMED.
 - INSTALL ANCHORS AND DOWELS USING ANY OF THE FOLLOWING PRODUCTS:
 - HIT-REPO V3 ADHESIVE SYSTEM BY HILTI.
 - SET XP ADHESIVE SYSTEM BY SIMPSON STRONG TIE.
 - AC-108 GOLD ADHESIVE SYSTEM BY POWERS.

CONCRETE REINFORCING STEEL:

- STEEL REINFORCING SHALL CONFORM TO:
 - MILD REINFORCING - ASTM A615, GRADE 60 (DEFORMED);
 - MINIMUM CONCRETE COVER UNLESS NOTED OTHERWISE.
 - EXPOSED TO SEAWATER = 4 IN.
 - ELSEWHERE = 3 IN.
- MILD REINFORCING BAR DETAILS INCLUDING HOOKS AND LAP SPLICES SHALL CONFORM TO ACI 318R AND ACI 315, UNLESS NOTED OTHERWISE. SUBMIT SHOP DRAWINGS FOR REVIEW BY ENGINEER PRIOR TO FABRICATION.
- MILD REINFORCING SHALL BE STANDARD HOOKS UNLESS DIMENSIONED OTHERWISE.
- ALL HOOKS SHALL BE STANDARD HOOKS UNLESS DIMENSIONED OTHERWISE.
- MILD REINFORCEMENT SPLICES SHALL BE CLASS B IN TENSION UNLESS OTHERWISE NOTED. ALL SPLICES IN BEAMS SHALL BE STAGGERED AT LEAST TWICE THE REQUIRED SPLICE LENGTH AND HAVE NO MORE THAN 50 PERCENT OF THE REINFORCEMENT SPLICED IN ANY ONE LOCATION. SUBMIT SPLICE LOCATIONS FOR APPROVAL PRIOR TO FABRICATION.
- WELDING MUST BE PERFORMED IN ACCORDANCE WITH AMERICAN WELDING SOCIETY CODE DOCUMENTS:
 - AWS D1.4-D1.6 STRUCTURAL WELDING CODE - REINFORCING STEEL.
- EXCEPT AS OTHERWISE SHOWN, ALL HOOKS SHALL BE OF ACI STANDARD DIMENSIONS AND ALL LAP SPLICES SHALL BE ACI 318 CLASS "B" TENSION SPLICES. MECHANICAL CONNECTORS SHALL DEVELOP 125% OF SPECIFIED YIELD STRENGTH OF BARS IN TENSION OR COMPRESSION.

WELDING:

- ALL WELDING SHALL BE PERFORMED BY CERTIFIED WELDERS. ALL WELDED CONNECTIONS SHALL BE FIELD QUALIFIED IN ACCORDANCE WITH AWS D1.1, D1.2, D1.4, OR D1.6. THE ENGINEER SHALL BE PROVIDED WITH COPIES OF THE QUALIFIED WELDING PROCEDURES AND WELDER CERTIFICATIONS.
- ALL ELECTRODES SHALL BE E70XX FOR CARBON STEEL, AND 316L ELECTRODES FOR STAINLESS STEEL UNLESS OTHERWISE NOTED.
- ALL WELDED STAINLESS SHALL BE TYPE 316L AND SHALL BE CLEANED IN ACCORDANCE WITH ASTM A-380 AFTER FABRICATION.

DESIGN CRITERIA (FOR INFORMATION ONLY):

- BULKHEAD AND ANCHOR WALL DESIGNED FOR THE FOLLOWING CONDITIONS:
 - 40 PSF SURCHARGE WITH WATER TABLE AT 0 FEET BELOW GRADE AND LOW TIDE
- NO SURCHARGE WITH PERCHED WATER TABLE AT ELEVATION +3.0'

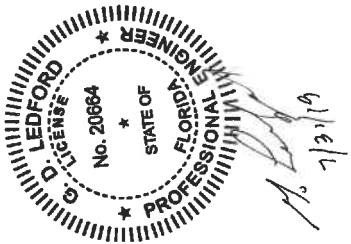
NO	DATE	REVISION	BY	APP'D	DESCRIPTION

1600 HUNTINGTON LANE
ROCKLEDGE, FL 32955

BULKHEAD WALL REHABILITATION
CITY OF ROCKLEDGE, FLORIDA
Indian River Club Condo
Rockledge, Florida 32955

JACOBS

GENERAL NOTES



VERIFY SCALE
DATE: JULY 22, 2019
PROJECT: 031785000
DWG: G-003

PROJECT NUMBER: 031785000
DATE: JULY 22, 2019
PROJECT: 031785000
DWG: G-003

1569 BARTON AVENUE
 ROCKLEDGE, FL 33555
 CITY OF ROCKLEDGE, FLORIDA
 Indian River Club Condominium
 Rockledge, Florida 32955

STRUCTURAL
 SITE PLAN

NO.	DATE	REVISION

VERIFY SCALE
 1" = 10'
 DATE: JULY 25, 2019
 PROJ: 031785000
 DWG: S-101

1569 BARTON AVENUE
 ROCKLEDGE, FL 33555
 CITY OF ROCKLEDGE, FLORIDA
 Indian River Club Condominium
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1. THE SURVEY CONTROL INFORMATION SHOWN IS FROM:
 R.M. BACKBARD AND ASSOC., INC.
 JOB # 18-200, DRAWINGS DATED DECEMBER 7, 2018.

2. RETURN WALLS SHALL BE APPROXIMATELY 6" OF LONG, 1/2" WALL THICKNESS WITH 1/2" DIA. REINFORCING BARS @ 12" ON CENTER. CORNER BARS (2" EACH LEG) SPACED TO MATCH HORIZONTAL REINFORCING.

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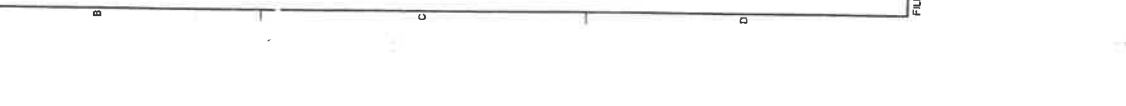
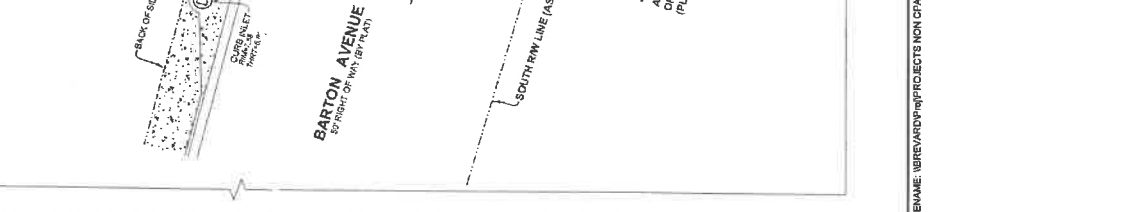
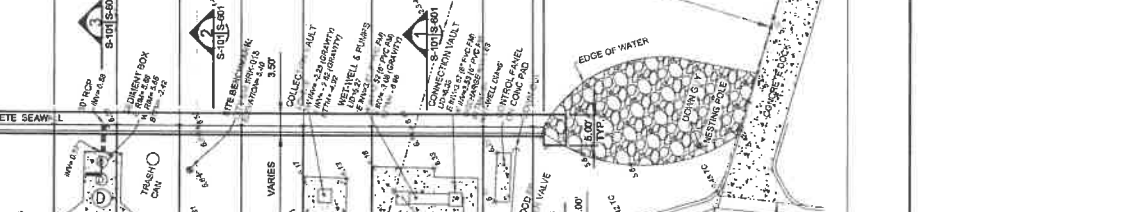
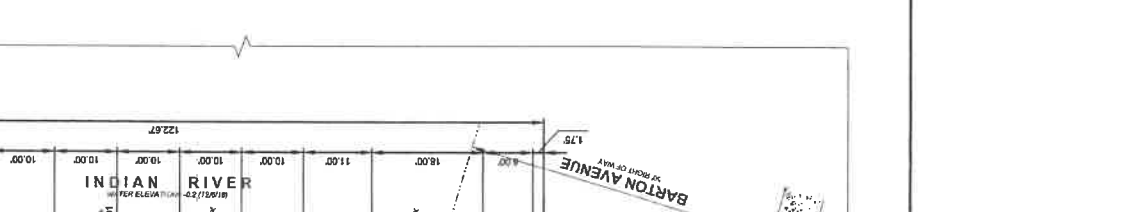
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DATE: JULY 25, 2019
 PROJ: 031785000
 DWG: S-101

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 ROCKLEDGE, FL 33555
 CITY OF ROCKLEDGE, FLORIDA
 Indian River Club Condominium
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