

**MINUTES
HARBOUR HEIGHTS WATERWAY
MUNICIPAL SERVICE BENEFIT UNIT (MSBU)**

**ADVISORY BOARD REGULAR MEETING
THURSDAY, MAY 19, 2022**

**10:04 a.m. – 10:45 a.m.
East Port Environmental Campus
25550 Harborview Boulevard, Port Charlotte, Florida**

Members Present: Maggie Scott, Vice-Chair
Jeff Good
James McBride
Perrin Peterson

Members Absent: Apologies received from Lee Phillips

County Staff: Karlene McDonald, Community Liaison
Zach Patchell, Projects Manager
Lisa Eby, Executive Assistant

Guests: See attached sign-in sheet

Call to Order / Roll Call:

The meeting was called to order at 10:04 a.m. A roll call was taken, and a quorum was present.

Changes to the Agenda / Motion to Approve Changes:

None

Citizen Input on Agenda Items (3-Minute Limit):

None

Approval of Minutes:

The minutes from February 23, 2022, were approved as submitted.

Unfinished Business:

- a. Spot Dredge Project: Bid documents were submitted to Purchasing for review, submittal was purposely delayed slightly to obtain more competitive bids due to 3 other active county dredge projects. The contractor is required to secure a spoil site.
- b. FY22 Navigational Trimming: Mr. Patchell confirmed the limitation for height of trimming is approximately 15-16FT depending on tides. He highlighted approximately 980FT within the San Salvador Waterway to be trimmed, estimating the cost to be approximately \$48,774. Conversation followed regarding a new citizen request to trim as needed on the De Soto Canal and Mr. Good inquired about mangrove trimming. Mr. McBride motioned to move forward with the proposed project scope prepared by Mr. Patchell, seconded by Mr. Good and unanimously approved. Ms. McDonald confirmed the Advisory Board's intentions to consider trimming within the De Soto canal in FY23 when additional funds are available.
- c. FY22 Pre-Storm Survey: Coastal Engineering Consultants was selected for the FY22 pre-storm survey project; Mr. Patchell is currently waiting on the Purchasing Department to schedule negotiations of scope and fee.

New Business:

- a. Financial Reports: The FY22 second quarter financial reports were reviewed. Ms. McDonald noted staff will be building the next biennium budgets this fall and will take any Advisory Board recommendations at the upcoming meetings.

Citizen Input on MSBU Items (3-Minute Limit):

None

Advisory Board Open Discussion:

Ms. Scott noted her intention to resign soon.

Meeting Schedule / Items for Next Agenda:

Future meetings are scheduled at 10:00 a.m. at the Charlotte Harbor Event Center as follows:

- August 4, 2022
- November 4, 2022

Meeting adjourned at 10:45 a.m.

Submitted by: Karlene McDonald
Public Works Department


Chair Signature

8-17-22

Date

**AGENDA
HARBOUR HEIGHTS WATERWAY
MUNICIPAL SERVICE BENEFIT UNIT (MSBU)**

**ADVISORY BOARD REGULAR MEETING
THURSDAY, MAY 19, 2022**

**10:00 a.m., East Port Environmental Campus
25550 Harborview Road, Port Charlotte, Florida**

BOARD MEMBERS: Margaret Scott, Vice-Chair
Jeff Good
James McBride
Lee Phillips

COUNTY STAFF: Karlene McDonald, Community Liaison

PURPOSE: Regular Meeting

1. Call to Order / Roll Call
2. Changes to the Agenda / Motion to Approve Changes
3. Citizen Input on Agenda Items (3-Minute Limit)
4. Approval of Minutes: February 23, 2022
5. Unfinished Business
 - a. Spot Dredge Project
 - b. FY22 Navigational Trimming
 - c. FY22 Pre-Storm Survey
6. New Business
 - a. Financial Reports
7. Citizen Input on MSBU items (3-Minute Limit)
8. Advisory Board Open Discussion
9. Meeting Schedule / Items for Next Agenda
10. Motion to Adjourn

**HARBOUR HEIGHTS WATERWAY
Municipal Service Benefit Unit (MSBU)
FY21 Annual Report – Executive Summary
October 1, 2020 – September 30, 2021**

Ordinance 2015-045 adopts a countywide Uniform Standard for Municipal Service Benefit Unit (MSBU) And Municipal Service Taxing Unit (MSTU) Advisory Boards;

Sec. 4-1-18. Duties/Responsibilities

The advisory board shall make recommendations to the Board of County Commissioners and staff, limited to the scope and purpose of the Unit which includes, but is not limited to, the following:

1. To make recommendations to the County for expenditure of the funds within the budget in accordance with the law and Board of County Commissioners approved purchasing guidelines and;
2. To make recommendations to the Board of County Commissioners regarding the annual proposed budget for the Unit.

Purpose

**Code of Laws and Ordinances, ARTICLE II. - HARBOUR HEIGHTS WATERWAY UNIT
Sec. 4-7-31. - Purpose.**

The purpose of the unit is to provide for the dredging, maintenance, clearing, marking for navigational purposes, and providing of safety devices in the Harbour Heights Waterway system. The purpose of this unit shall not include the maintenance of seawalls.

Summary

Current Rate: \$200.00

Max Rate: \$400.00

The FY21 completed work program included all internal maintenance and administrative costs, and contracted services for navigational trimming and a pre-storm bathymetric survey.

The current fiscal year work program includes all internal maintenance and administrative costs and professional services for engineering and permitting of a spot dredge project and contracted services for a pre-storm bathymetric survey, dredging, and navigational trimming.

For FY23, the Advisory Board recommends budgeting for all internal maintenance and administrative costs and contracted services for a pre-storm bathymetric survey and navigational trimming.

Monthly MSBU Activity Report

START DATE: 12/1/2021 END DATE: 2/28/2022

PW-HHWWM Harbour Hts WW Mtc

Project	WO Number	WO Description	Equipment Code	Equipment Description	Location	Date Worked	Labor Hours	Labor Cost	Parts Cost	Equipment Cost	Contract or Cost	Work Accompl.	UOM	Total Cost
C390705	1011047	PW-MSBU-N Harbour Heights WW Dredging c390705	PW-HHWWM	Harbour Hts WW Mtc										
				93-9357D Project Management		12/10/2021	0.50	53.40	0.00	0.00	0.00	0.50	LHR	53.40
						01/07/2022	2.00	213.58	0.00	0.00	0.00	2.00	LHR	213.58
						01/11/2022	1.00	106.79	0.00	0.00	0.00	1.00	LHR	106.79
						01/27/2022	0.50	53.40	0.00	0.00	0.00	0.50	LHR	53.40
						02/02/2022	1.00	106.79	0.00	0.00	0.00	1.00	LHR	106.79
						02/04/2022	3.00	320.37	0.00	0.00	0.00	3.00	LHR	320.37
						02/08/2022	2.00	213.58	0.00	0.00	0.00	2.00	LHR	213.58
						02/09/2022	1.00	106.79	0.00	0.00	0.00	1.00	LHR	106.79
						02/15/2022	0.50	53.40	0.00	0.00	0.00	0.50	LHR	53.40
						02/16/2022	0.50	53.40	0.00	0.00	0.00	0.50	LHR	53.40
						02/18/2022	1.00	106.79	0.00	0.00	0.00	1.00	LHR	106.79
						02/23/2022	2.00	213.58	0.00	0.00	0.00	2.00	LHR	213.58
						02/25/2022	1.50	160.19	0.00	0.00	0.00	1.50	LHR	160.19
				Project Management Total			16.50	1,762.04	0.00	0.00	0.00	16.50	LHR	1,762.04
				93-9351D Meetings		02/23/2022	2.00	213.58	0.00	0.00	0.00	2.00	LHR	213.58
				Meetings Total			2.00	213.58	0.00	0.00	0.00	2.00	LHR	213.58
				Total WO Number: 1011047			18.50	1,975.62	0.00	0.00	0.00	18.50	LHR	1,975.62
1220397	PW-HHWWM	Harbor Heights Waterway MS DR Annual Work Order	PW-HHWWM	Harbour Hts WW Mtc										
				10-9866 MS DR		12/02/2021	0.25	22.85	0.00	0.00	0.00	0.25	LHR	22.85
						12/16/2021	0.25	22.85	0.00	0.00	0.00	0.25	LHR	22.85
						12/29/2021	0.50	45.70	0.00	0.00	0.00	0.50	LHR	45.70
						01/03/2022	0.25	22.85	0.00	0.00	0.00	0.25	LHR	22.85
						01/04/2022	0.25	22.85	0.00	0.00	0.00	0.25	LHR	22.85
						01/06/2022	0.75	68.54	0.00	0.00	0.00	0.75	LHR	68.54
						01/12/2022	0.25	22.85	0.00	0.00	0.00	0.25	LHR	22.85
						01/20/2022	0.25	22.85	0.00	0.00	0.00	0.25	LHR	22.85
						01/27/2022	0.50	45.70	0.00	0.00	0.00	0.50	LHR	45.70
						02/03/2022	0.50	45.70	0.00	0.00	0.00	0.50	LHR	45.70
						02/07/2022	0.50	45.70	0.00	0.00	0.00	0.50	LHR	45.70
						02/08/2022	0.25	22.85	0.00	0.00	0.00	0.25	LHR	22.85
						02/16/2022	0.75	68.54	0.00	0.00	0.00	0.75	LHR	68.54
						02/17/2022	0.25	22.85	0.00	0.00	0.00	0.25	LHR	22.85
						02/22/2022	1.25	114.24	0.00	0.00	0.00	1.25	LHR	114.24
						02/23/2022	4.50	411.26	0.00	0.00	0.00	4.50	LHR	411.26
						02/24/2022	0.75	68.54	0.00	0.00	0.00	0.75	LHR	68.54
						02/28/2022	0.25	22.85	0.00	0.00	0.00	0.25	LHR	22.85
				MSDR Total			12.25	1,119.53	0.00	0.00	0.00	12.25	LHR	1,119.53
				Total WO Number: 1220397			12.25	1,119.53	0.00	0.00	0.00	12.25	LHR	1,119.53

Total MSBU: PW-HHWWM

30.75 3,095.14 0.00 0.00 0.00 30.75 LHR 3,095.14

Harbour Heights Waterway MSBU

Fund Financial Report
Oct. 1, 2021 - Mar. 31, 2022

	Actual FY2021	Adopted Budget FY2022	YTD Actual FY2022	Projected FY2022
Beginning Balance	\$304,736	\$215,467	\$331,509	\$331,509
Revenues				
Assessments & Earnings	75,525	74,479	66,520	74,479
Grant & Subsidy Revenue	-	-	-	-
Loans & Borrowing	-	-	-	-
Total Revenue	\$75,525	\$74,479	\$66,520	\$74,479
Expenditures				
Contract Services	-	-	-	-
Survey	19,980	30,000	-	30,000
Navigational Trimming	9,950	50,000	-	50,000
Public Works Services	9,056	8,707	4,077	8,707
Internal Charges	360	855	855	855
Purchased Services	960	1,553	1,324	1,553
Materials and Supplies	-	-	-	-
Capital Outlay	-	-	-	-
Debt Services	-	-	-	-
Project Costs				
Harbour Heights Maint. Dredge	8,447	100,000	23,789	100,000
Total Expenditures	\$48,752	\$191,115	\$30,045	\$191,115
Reserves (Ending Fund Balance)	\$331,509	\$98,831	\$367,984	\$214,873
<i>Reserve %</i>	87.2%	34.1%	92.5%	52.9%

Date Prepared: 4/3/2022

Navigational Trimming

Harbour Heights



Stateplane Projection
Datum: NAD83
Units: Feet

Source: Public Works

Metadata available upon request

Legend

 Trimming



100 50 0 100 Feet

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Updated: 5/26/2022 11:05:09 AM by: D Jorge
M:\publicworks\ArcProjects\10\Zach\HarbourHeights_NavTrim.mxd

This map is a representation of compiled public information. It is believed to be an accurate and true depiction for the stated purpose, but Charlotte County and its employees make no guarantees, implied or otherwise, to the accuracy, or completeness. We therefore do not accept any responsibilities as to its use. This is not a survey or is it to be used for design. Reflected Dimensions are for informational purposes only and may have been rounded to the nearest tenth. For precise dimensions, please refer to recorded plats and related documents.

ENGINEERING PLANS

FOR

HARBOUR HEIGHTS INTERNAL CANALS

MAINTENANCE SPOT DREDGING

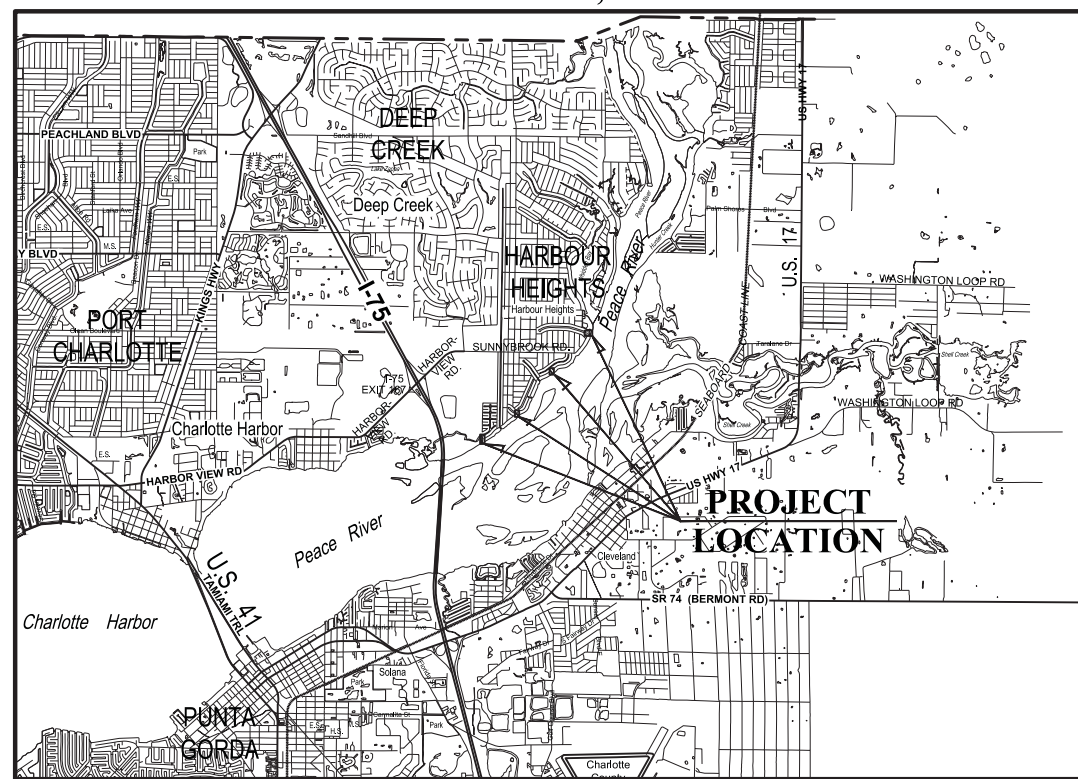
FOR

CHARLOTTE COUNTY BOARD OF COUNTY COMMISSIONERS

CHARLOTTE COUNTY, FLORIDA

SECTIONS 22 & 28
TOWNSHIP 40 SOUTH, RANGE 23 EAST

INDEX OF PLANS	
SHEET NO.	DESCRIPTION
01	COVER SHEET - LOCATION MAP
02	OVERALL SITE PLAN & SHEET INDEX
03	BALBOA CANAL (S.)
04	BALBOA CANAL (N.)
05	SANTA CLARA CANAL
06	SAN SALVADOR CANAL (S.)
07	SAN SALVADOR CANAL (N.)
08	SAN MARINO CANAL
09	CONST. NOTES & DETAILS (& DREDGING SUMMARY TABLE)



LATITUDE: 26.981997
LONGITUDE: -82.001410

LOCATION MAP



VERTICAL DATUM:
N.A.V.D. 1988

DATE OF LAST SURVEY
FIELDWORK BY JOHNSON
ENGINEERING: SEPTEMBER
24, 2021

May 9, 2022

County Commissioners

- Ken Doherty, District 1
- Christopher Constance, District 2
- Bill Truex, District 3
- Stephen R. Deutsch, District 4
- Joe Tiseo, District 5

County Engineer

Joanne Vernon, P.E.

Project Manager

Zach Patchell



JOHNSON ENGINEERING, INC.
17833 MURDOCK CIRCLE
PORT CHARLOTTE, FLORIDA 33948
PHONE (941) 625-9919
E.B. #642 & L.B. #642



REGISTERED PROFESSIONAL ENGINEER
FLORIDA LICENSE NO. 64594

CHRISTOPHER D. BEERS, PE

DATE



O:\2021\20214155\Drawings\214155-A01.dwg (02-Overall) mtt Mar 04, 2022 - 4:47pm

JOHNSON ENGINEERING
 JOHNSON ENGINEERING, INC.
 17833 MURDOCK CIRCLE
 PORT CHARLOTTE, FLORIDA 33948
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HARBOUR HEIGHTS
 INTERNAL CANALS
 MAINTENANCE SPOT
 DREDGING

CHARLOTTE COUNTY BOARD OF
 COUNTY COMMISSIONERS
 SECTIONS 22 & 28, TOWNSHIP 40 SOUTH, RANGE 23 EAST
 CHARLOTTE COUNTY, FLORIDA

REVISIONS
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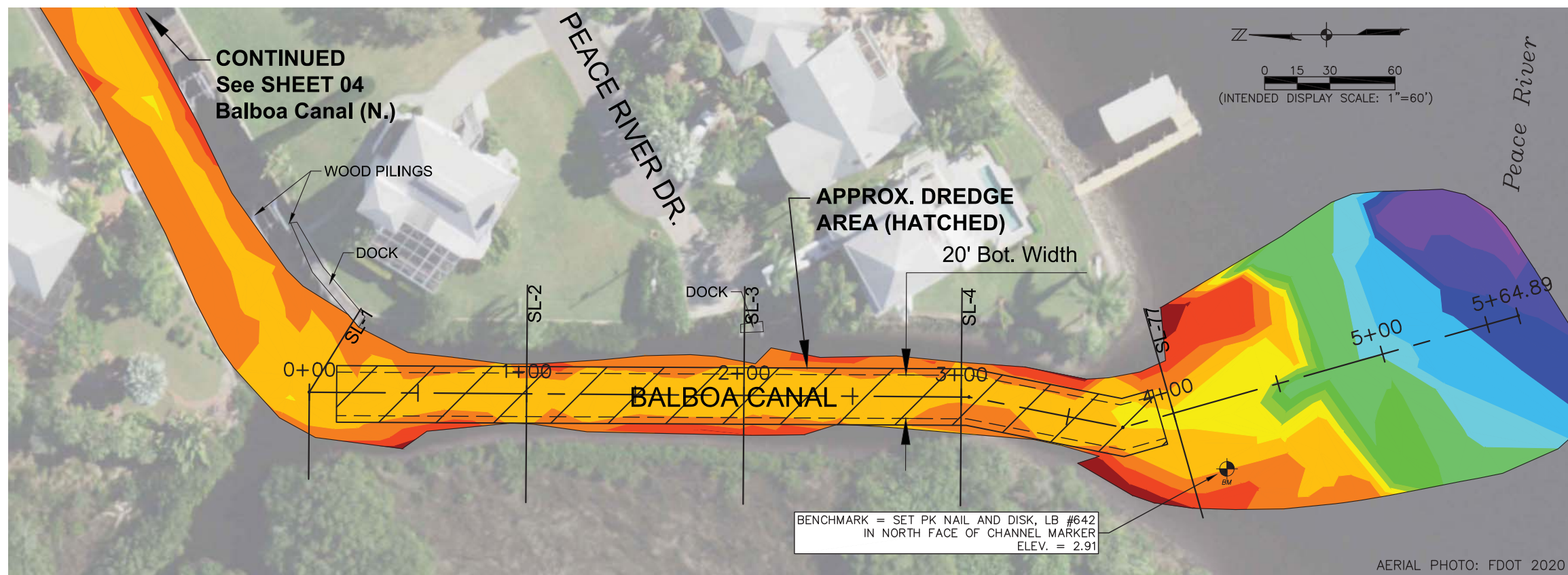
NO.	DATE	DESCRIPTION

DATE: 03-02-2022
 PROJECT NO. 20214155-000
 FILE NO. 22-40-23
 SCALE: AS SHOWN

OVERALL SITE
 PLAN & SHEET
 INDEX

SHEET NUMBER
02

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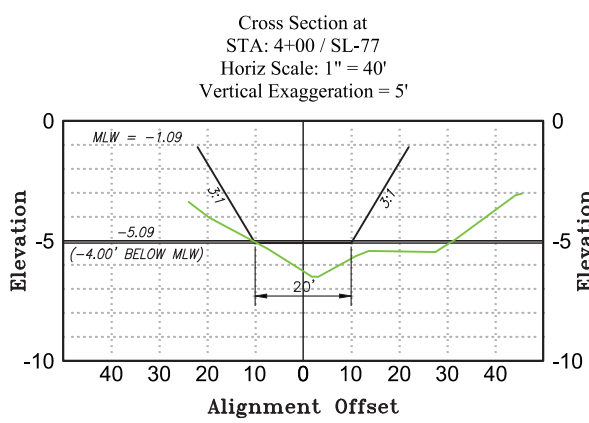
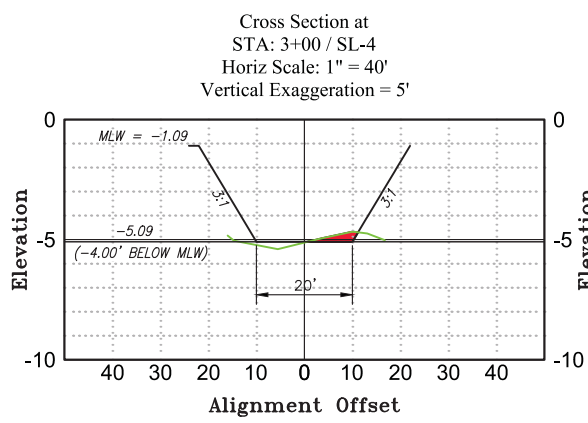
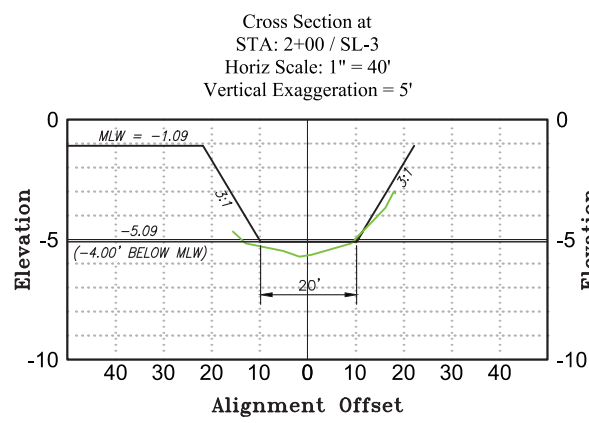
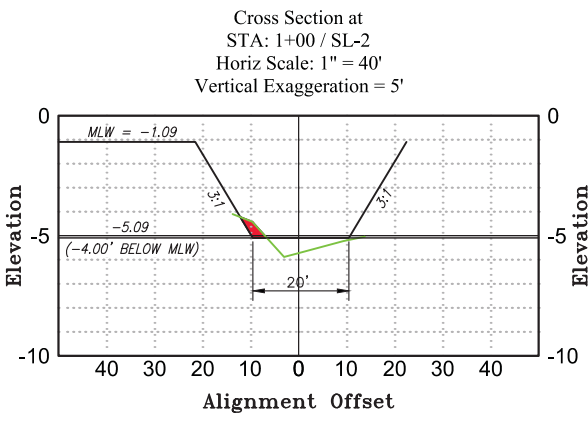
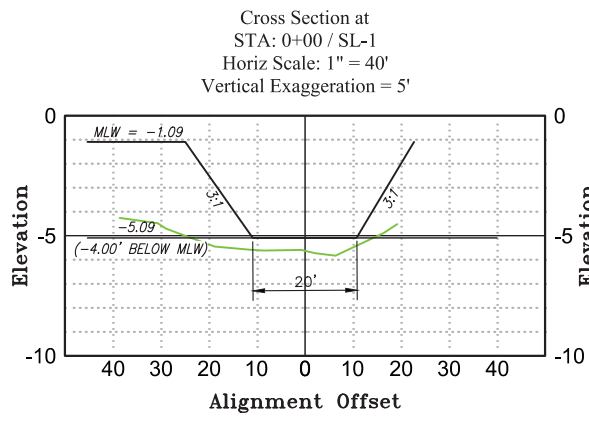


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HARBOUR HEIGHTS
 INTERNAL CANALS
 MAINTENANCE SPOT
 DREDGING

CHARLOTTE COUNTY BOARD OF
 COUNTY COMMISSIONERS
 SECTIONS 22 & 28, TOWNSHIP 40 SOUTH, RANGE 23 EAST
 CHARLOTTE COUNTY, FLORIDA

Elevations Table (NAVD88)	
Color	Elev. (FEET)
Dark Brown	0 to -1
Red	-1 to -2
Dark Red	-2 to -3
Orange	-3 to -4
Light Orange	-4 to -5
Yellow	-5 to -6
Light Green	-6 to -7
Green	-7 to -8
Light Blue	-8 to -9
Blue	-9 to -10
Light Purple	-10 to -11
Dark Purple	-11 to -12
Light Blue	-12 to -13
Blue	-13 to -14
Light Purple	-14 to -15
Dark Purple	-15 to -16
Light Blue	-16 to -17
Blue	-17 to -18
Light Purple	-18 to -19
Dark Purple	-19 to -20



Cut Volume Table (Cubic Yards)		
Station	Cut Vol	Cum Cut Vol
0+00	0.00	0.00
1+00	3.33	3.33
2+00	3.62	6.95
3+00	4.52	11.47
4+00	4.34	15.81

REVISIONS	
NO.	DESCRIPTION

DATE: 03-02-2022
 PROJECT NO. 20214155-000
 FILE NO. 22-40-23
 SCALE: AS SHOWN

BALBOA
 CANAL (S.)

SHEET NUMBER

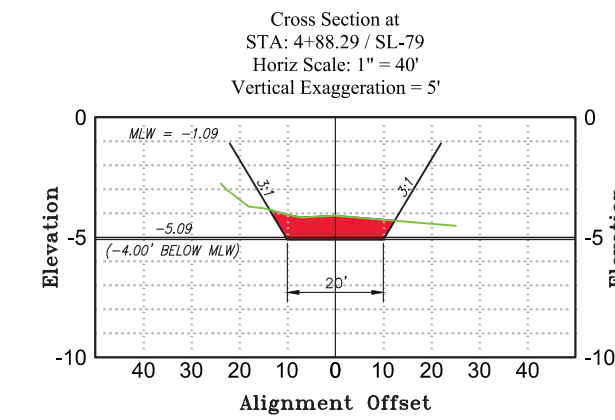
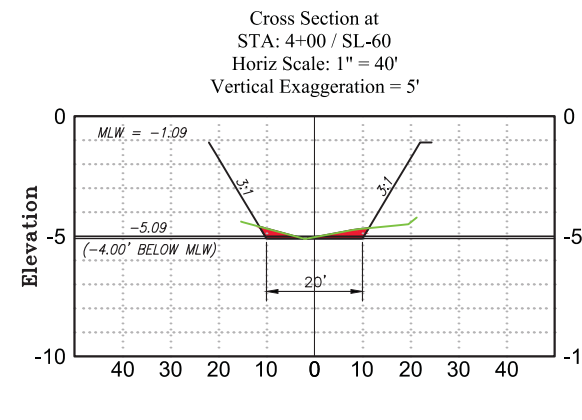
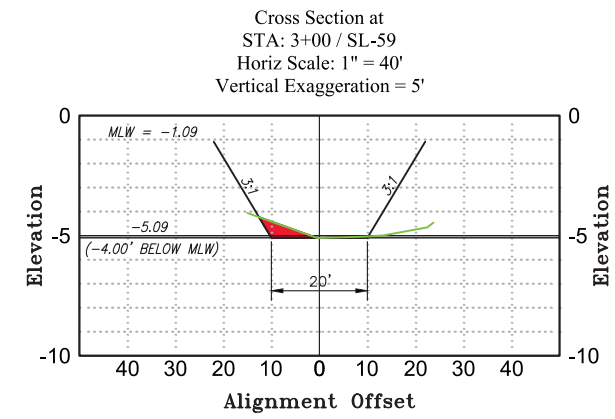
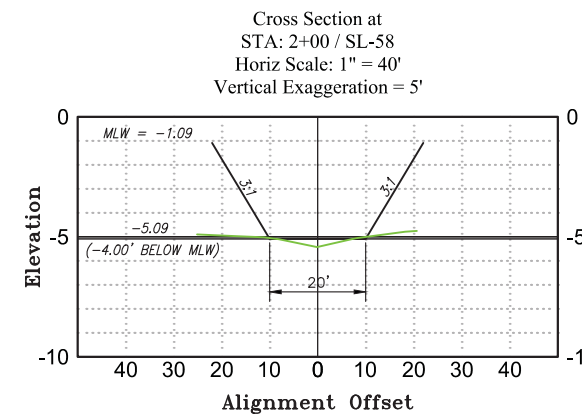
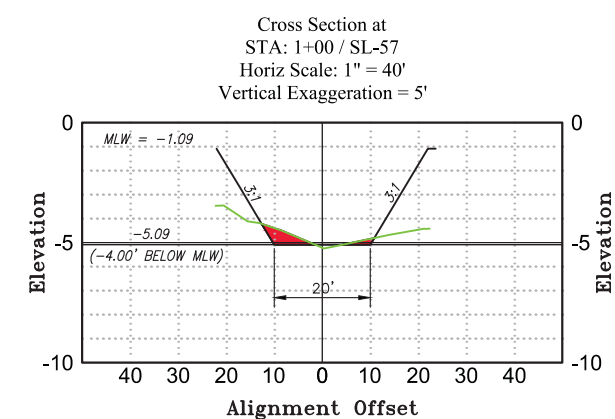
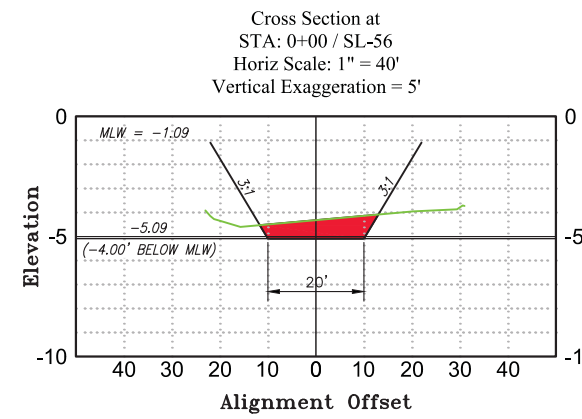
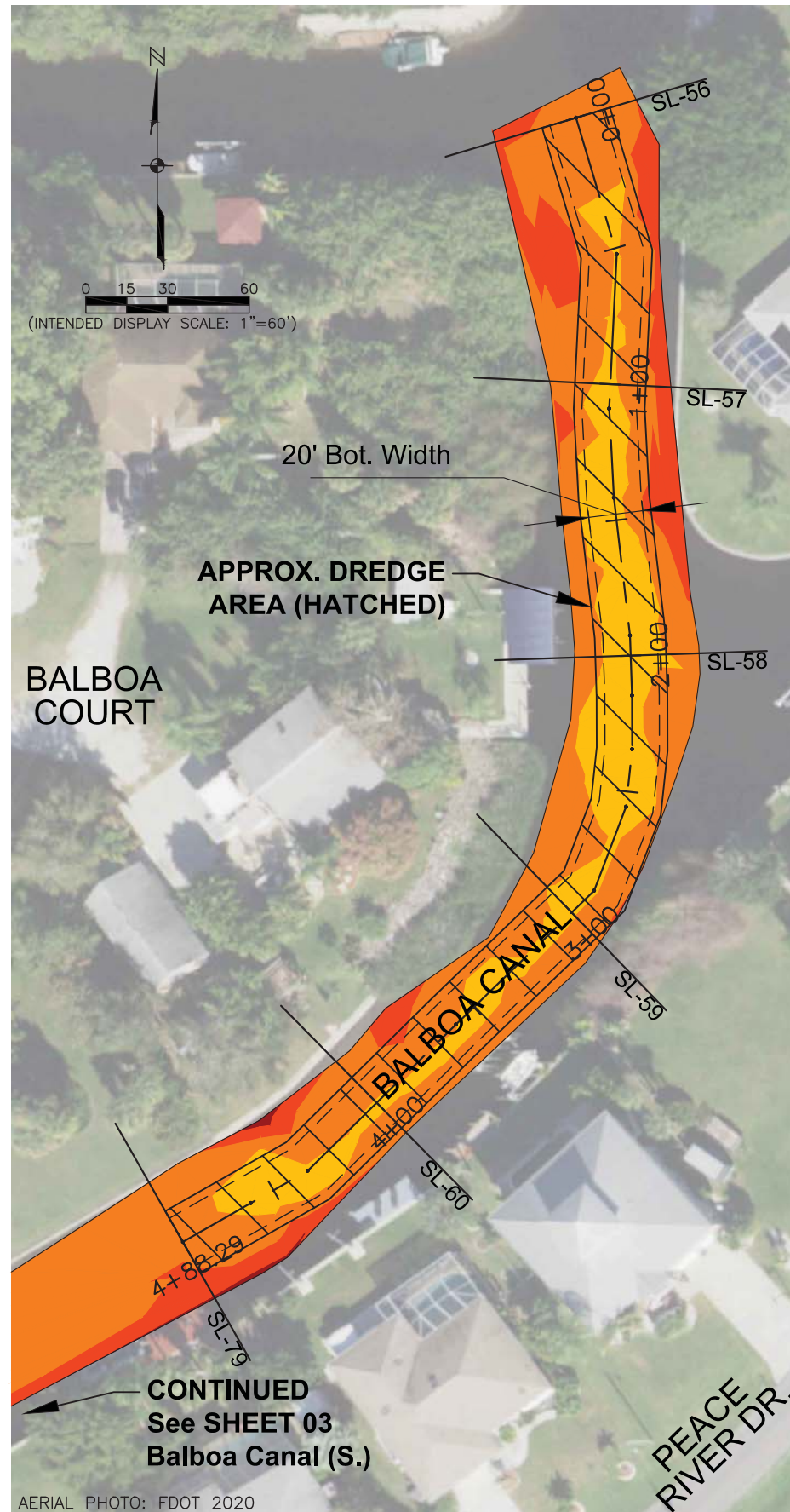
03

REVISIONS
 DESCRIPTION

NO. DESCRIPTION
 DATE: 03-02-2022
 PROJECT NO. 20214155-000
 FILE NO. 22-40-23
 SCALE: AS SHOWN

BALBOA
 CANAL (N.)

SHEET NUMBER



Cut Volume Table (Cubic Yards)

Station	Cut Vol	Cum Cut Vol
0+00	0.00	0.00
1+00	40.94	40.94
2+00	9.09	50.03
3+00	8.66	58.69
4+00	16.33	75.02
4+88	42.61	117.63

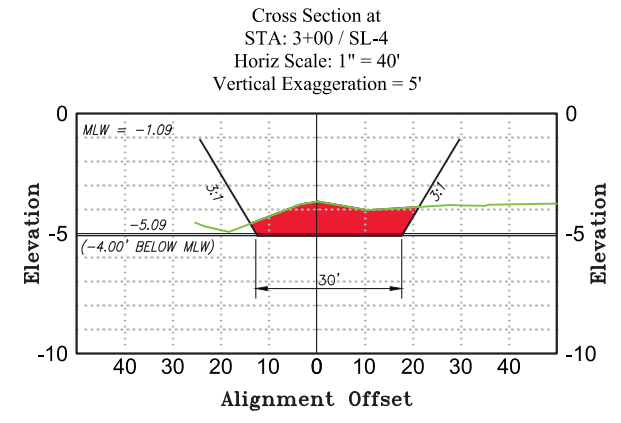
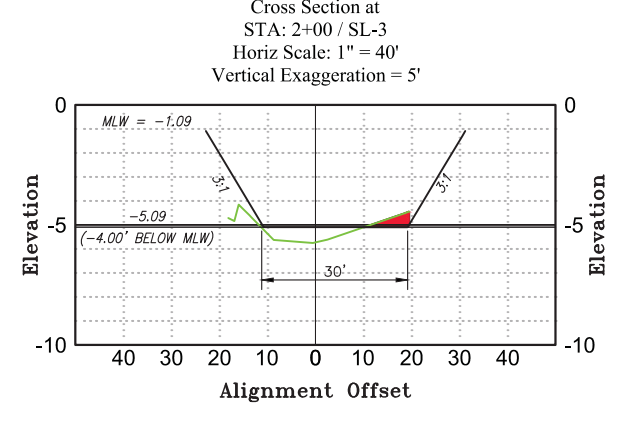
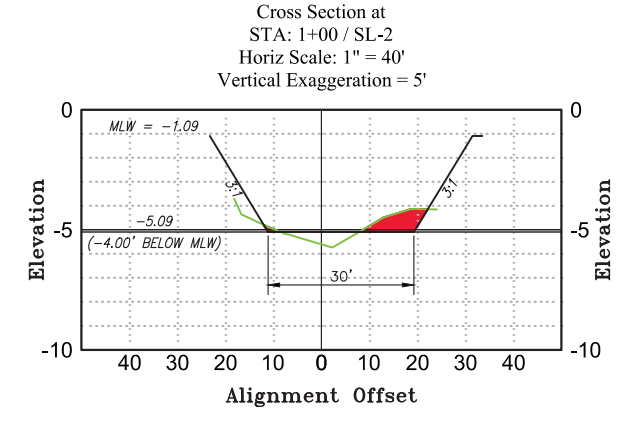
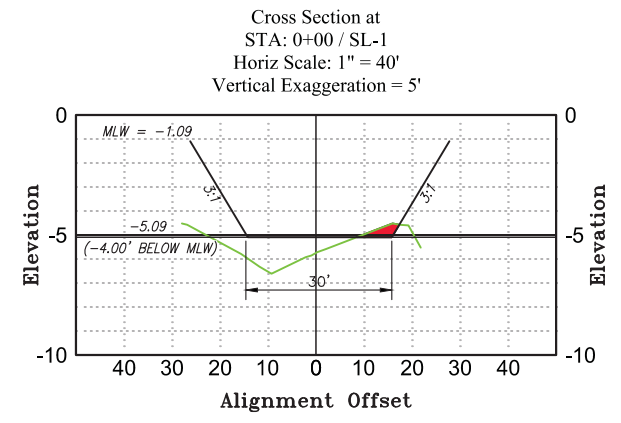
Elevations Table (NAVD88)

Color	Elev. (FEET)
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[Medium Blue]	-1 to -2
[Light Blue]	-2 to -3
[Yellow-Orange]	-3 to -4
[Orange]	-4 to -5
[Yellow]	-5 to -6
[Light Green]	-6 to -7
[Green]	-7 to -8
[Light Blue-Gray]	-8 to -9
[Blue-Gray]	-9 to -10
[Cyan]	-10 to -11
[Light Blue]	-11 to -12
[Blue]	-12 to -13
[Purple-Blue]	-13 to -14
[Purple]	-14 to -15
[Pink-Red]	-15 to -16
[Pink]	-16 to -17
[Magenta]	-17 to -18
[Red-Pink]	-18 to -19
[Red]	-19 to -20

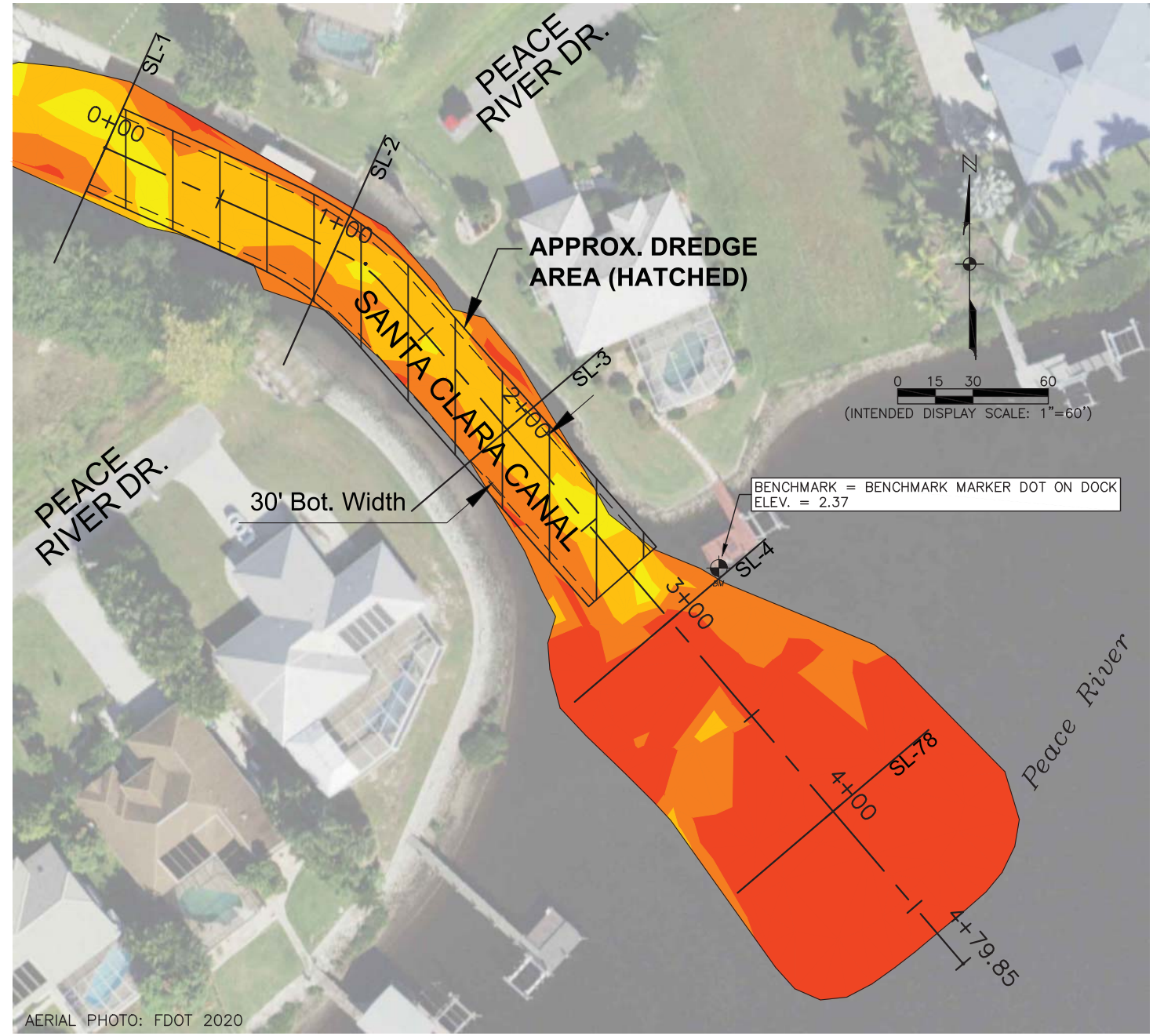
**HARBOUR HEIGHTS
 INTERNAL CANALS
 MAINTENANCE SPOT
 DREDGING**

CHARLOTTE COUNTY BOARD OF
 COUNTY COMMISSIONERS
 SECTIONS 22 & 28, TOWNSHIP 40 SOUTH, RANGE 23 EAST
 CHARLOTTE COUNTY, FLORIDA

NO.	REVISIONS DESCRIPTION



Color	Elev. (FEET)
Dark Red	0 to -1
Red	-1 to -2
Dark Orange	-2 to -3
Orange	-3 to -4
Light Orange	-4 to -5
Yellow	-5 to -6
Light Green	-6 to -7
Green	-7 to -8
Dark Green	-8 to -9
Cyan	-9 to -10
Light Blue	-10 to -11
Blue	-11 to -12
Dark Blue	-12 to -13
Purple	-13 to -14
Dark Purple	-14 to -15
Magenta	-15 to -16
Pink	-16 to -17
Light Pink	-17 to -18
Red	-18 to -19
Dark Red	-19 to -20



Station	Cut Vol	Cum Cut Vol
0+00	0.00	0.00
1+00	20.06	20.06
2+00	19.58	39.64
3+00	73.54	113.19

HARBOUR HEIGHTS
INTERNAL CANALS
MAINTENANCE SPOT
DREDGING

CHARLOTTE COUNTY BOARD OF
COUNTY COMMISSIONERS
SECTIONS 22 & 28, TOWNSHIP 40 SOUTH, RANGE 23 EAST
CHARLOTTE COUNTY, FLORIDA

REVISIONS
DESCRIPTION

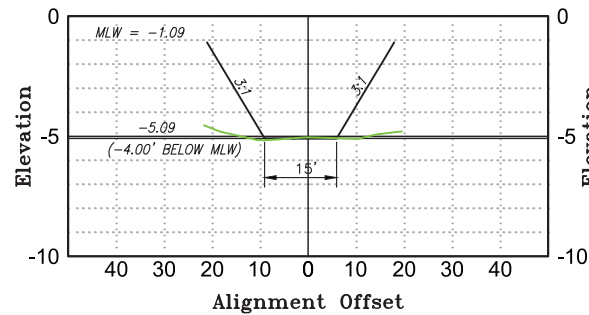
NO. DESCRIPTION
DATE: 03-02-2022
PROJECT NO. 20214155-000
FILE NO. 22-40-23
SCALE: AS SHOWN

SAN SALVADOR
CANAL (S.)

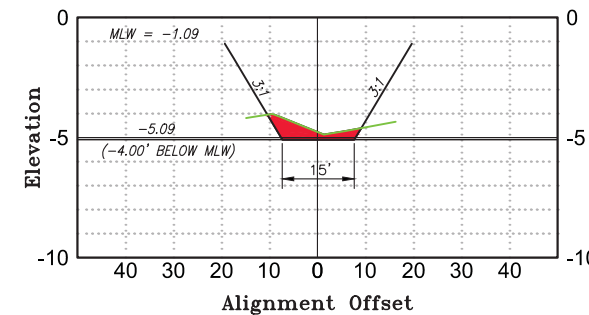
SHEET NUMBER

06

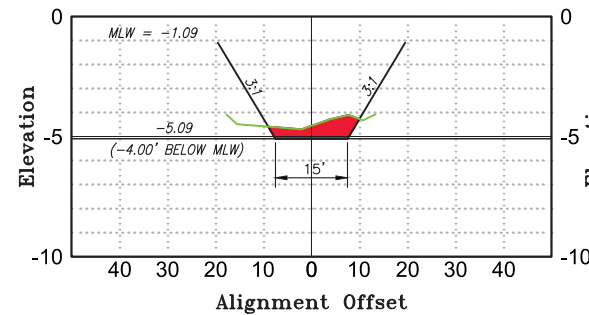
Cross Section at
STA: 0+00 / SL-61
Horiz Scale: 1" = 40'
Vertical Exaggeration = 5'



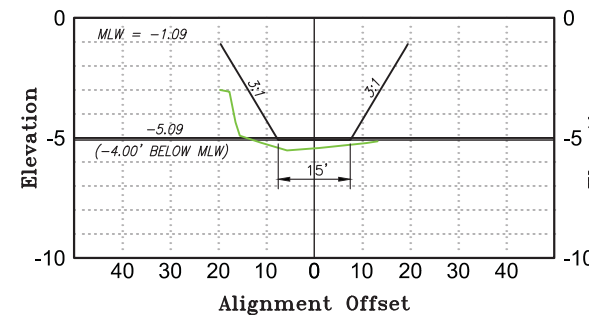
Cross Section at
STA: 1+00 / SL-62
Horiz Scale: 1" = 40'
Vertical Exaggeration = 5'



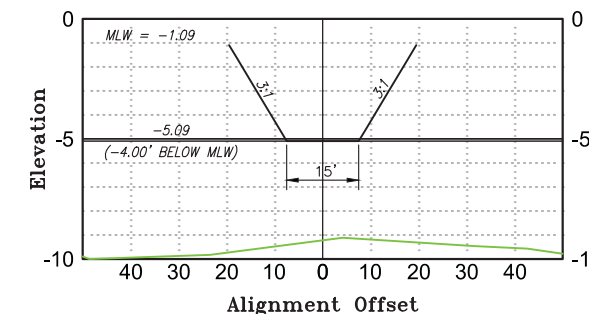
Cross Section at
STA: 2+00 / SL-63
Horiz Scale: 1" = 40'
Vertical Exaggeration = 5'



Cross Section at
STA: 3+00 / SL-64
Horiz Scale: 1" = 40'
Vertical Exaggeration = 5'

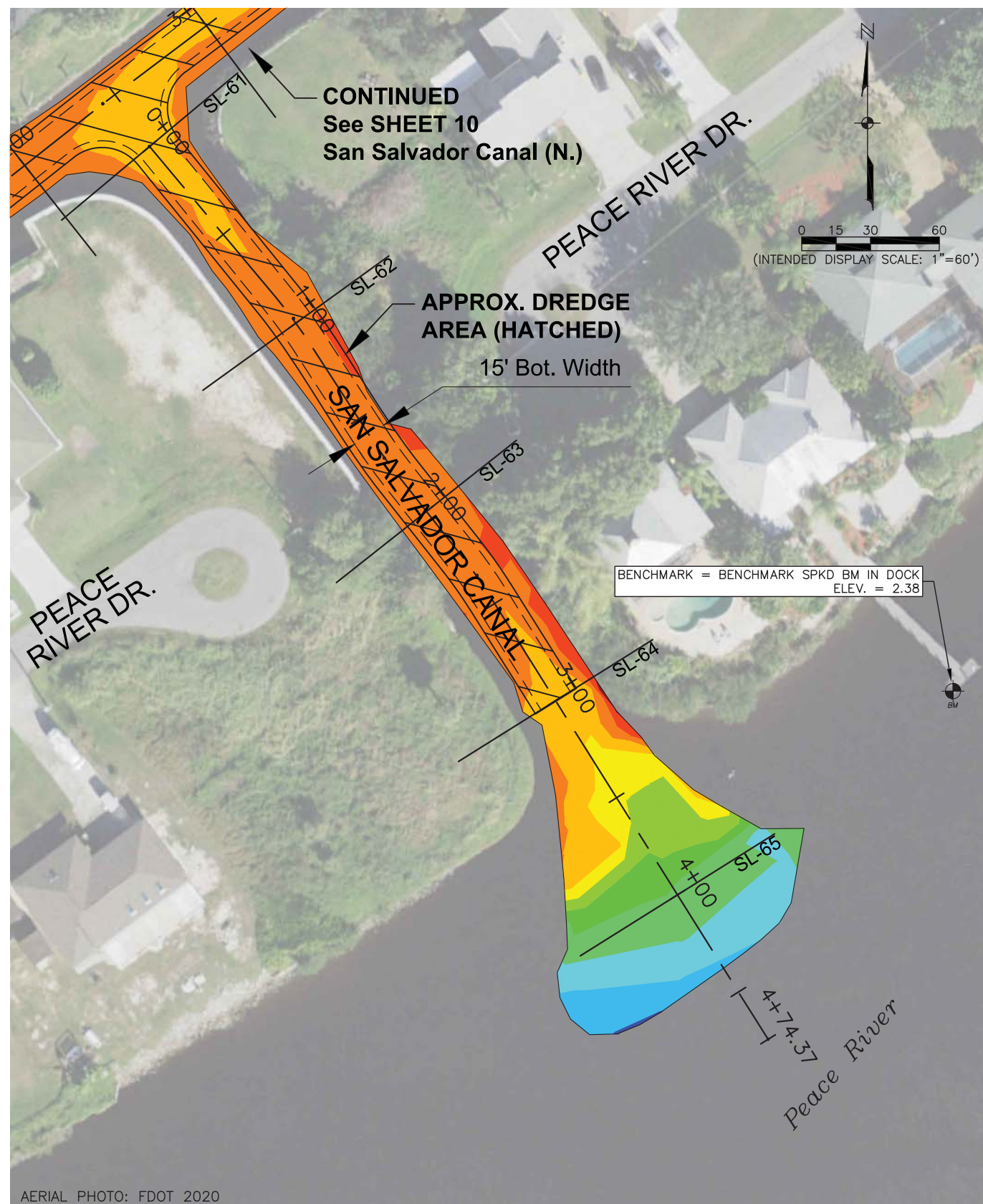


Cross Section at
STA: 4+00 / SL-65
Horiz Scale: 1" = 40'
Vertical Exaggeration = 5'



Station	Cut Vol	Cum Cut Vol
0+00	0.00	0.00
1+00	16.68	16.68
2+00	36.24	52.91
3+00	19.96	72.88
4+00	0.00	72.88

Color	Elev. (FEET)
Dark Brown	0 to -1
Red	-1 to -2
Orange	-2 to -3
Light Orange	-3 to -4
Yellow	-4 to -5
Light Green	-5 to -6
Green	-6 to -7
Light Blue	-7 to -8
Blue	-8 to -9
Light Purple	-9 to -10
Purple	-10 to -11
Dark Purple	-11 to -12
Dark Blue	-12 to -13
Blue	-13 to -14
Light Blue	-14 to -15
Light Green	-15 to -16
Green	-16 to -17
Light Green	-17 to -18
Green	-18 to -19
Dark Green	-19 to -20



AERIAL PHOTO: FDOT 2020

**HARBOUR HEIGHTS
INTERNAL CANALS
MAINTENANCE SPOT
DREDGING**

CHARLOTTE COUNTY BOARD OF
COUNTY COMMISSIONERS
SECTIONS 22 & 28, TOWNSHIP 40 SOUTH, RANGE 23 EAST
CHARLOTTE COUNTY, FLORIDA

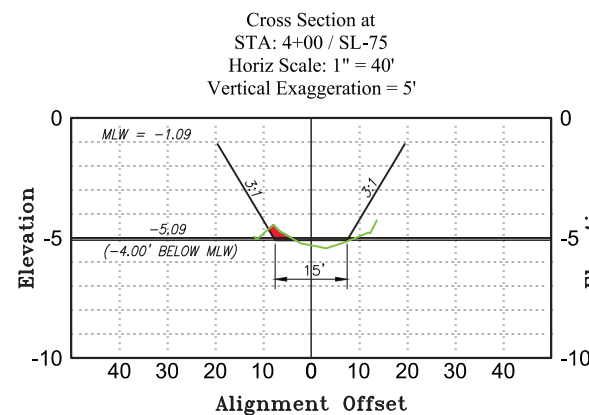
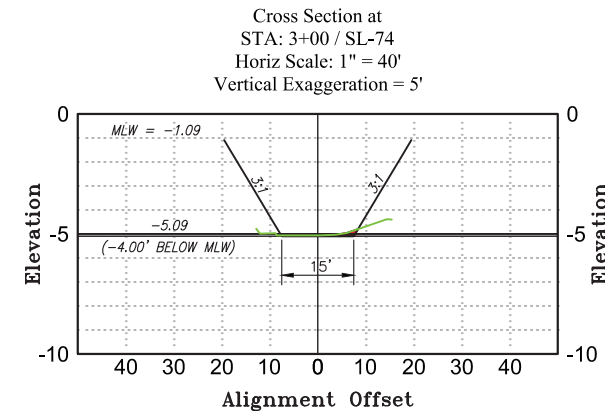
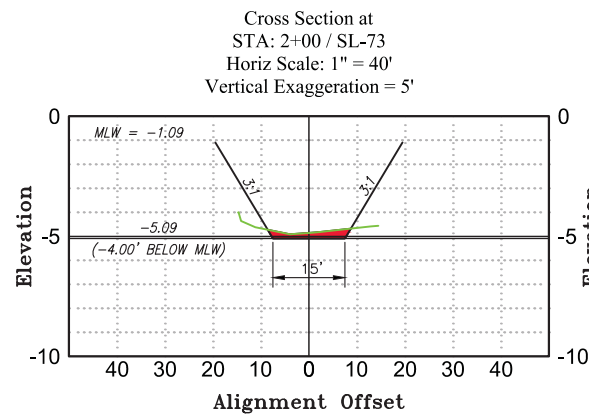
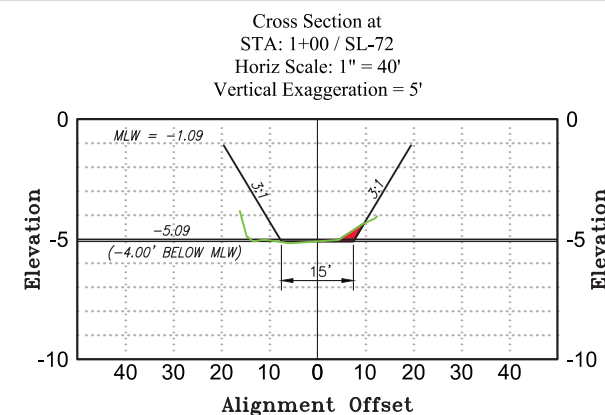
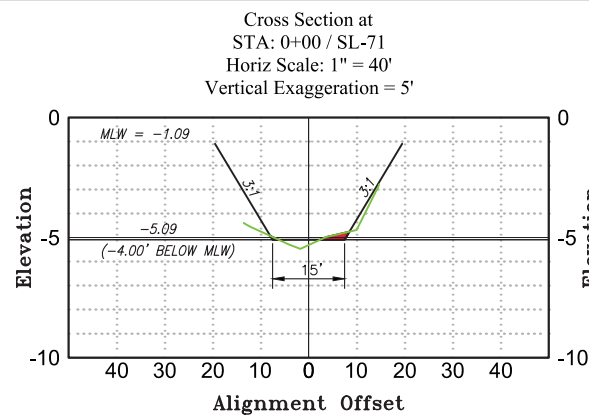
REVISIONS
DESCRIPTION

NO. DESCRIPTION
DATE: 03-02-2022
PROJECT NO. 20214155-000
FILE NO. 22-40-23
SCALE: AS SHOWN

SAN SALVADOR
CANAL (N.)

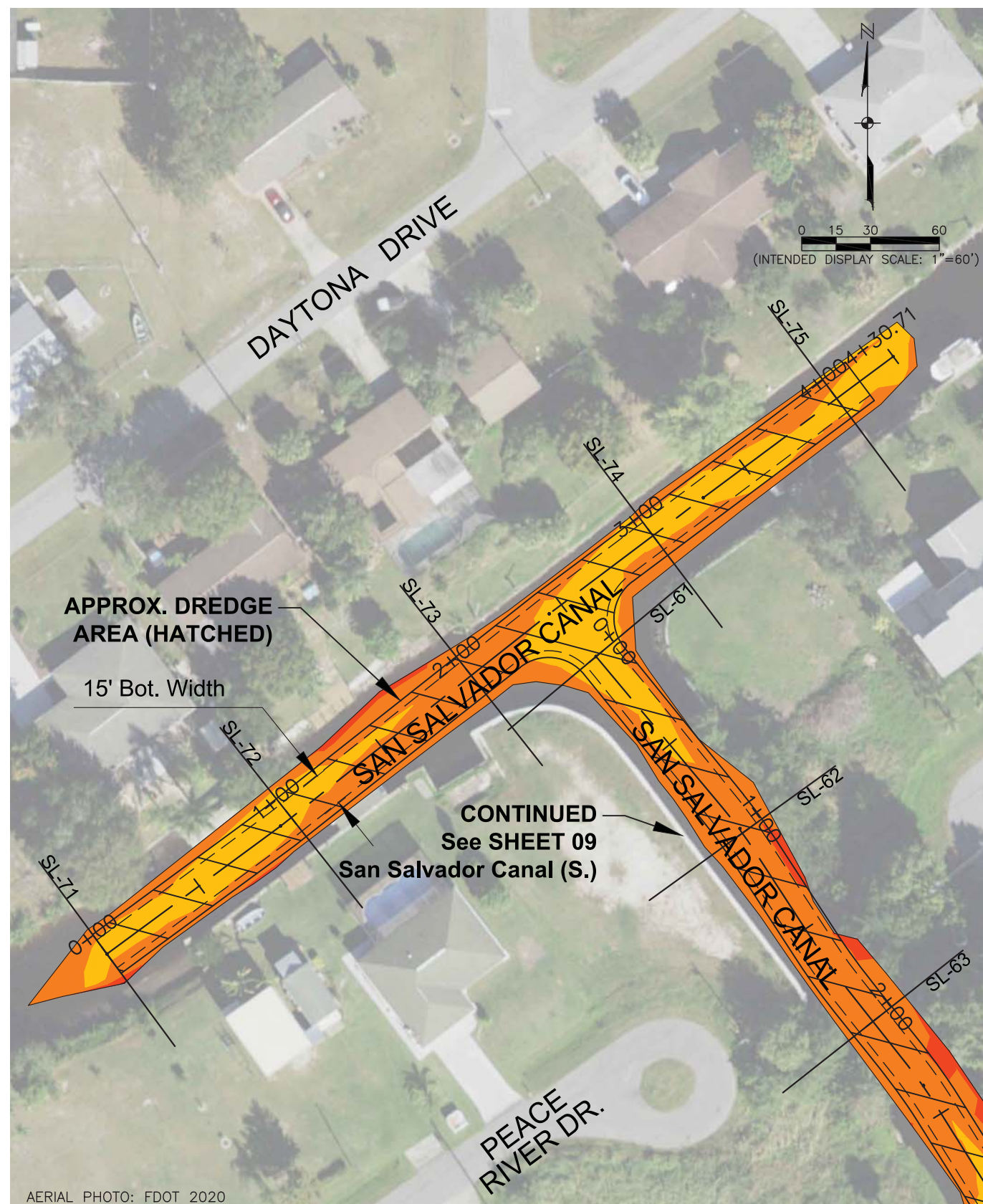
SHEET NUMBER

07



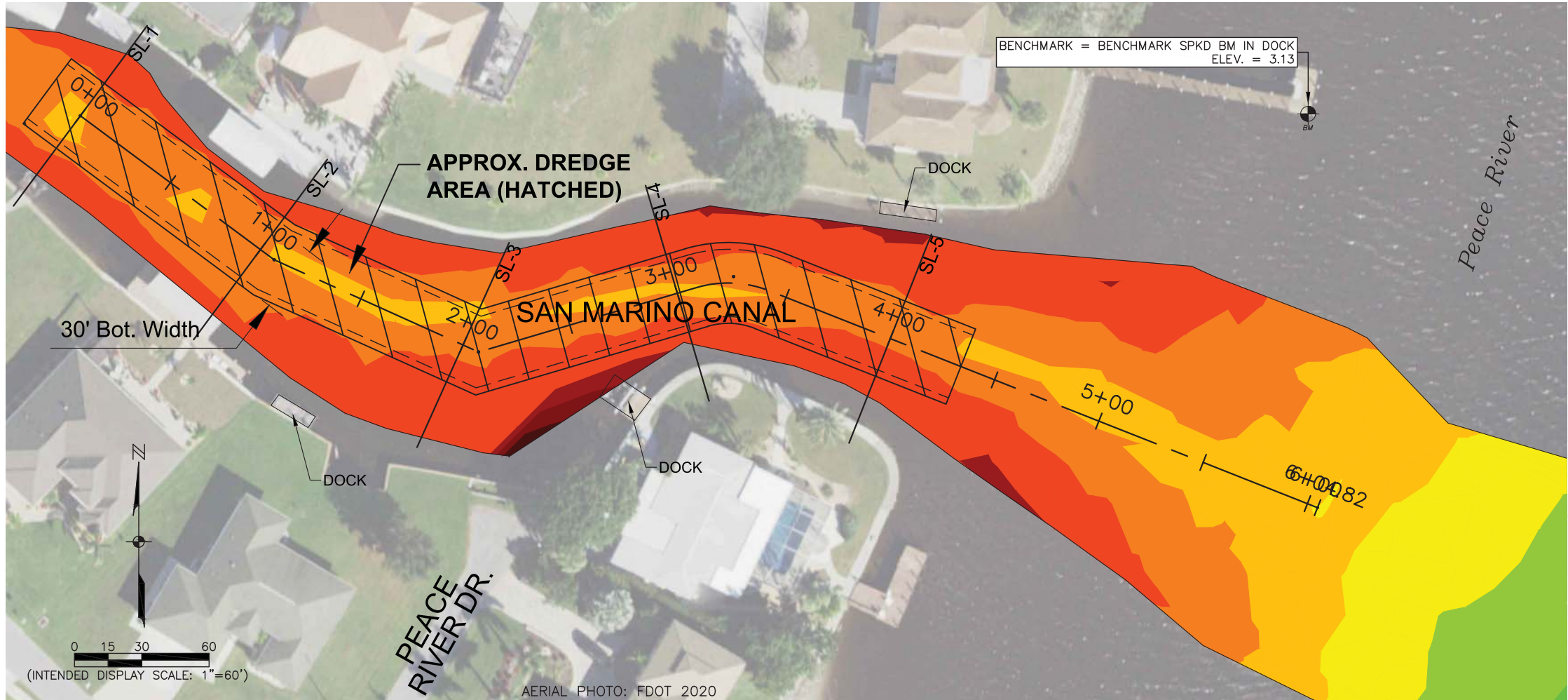
Elevations Table (NAVD88)	
Color	Elev. (FEET)
Dark Brown	0 to -1
Red	-1 to -2
Orange	-2 to -3
Light Orange	-3 to -4
Yellow	-4 to -5
Light Yellow	-5 to -6
Light Green	-6 to -7
Green	-7 to -8
Light Blue	-8 to -9
Blue	-9 to -10
Light Blue	-10 to -11
Blue	-11 to -12
Dark Blue	-12 to -13
Dark Blue	-13 to -14
Purple	-14 to -15
Purple	-15 to -16
Pink	-16 to -17
Pink	-17 to -18
Red	-18 to -19
Red	-19 to -20

Cut Volume Table (Cubic Yards)		
Station	Cut Vol	Cum Cut Vol
0+00	0.00	0.00
1+00	4.74	4.74
2+00	10.75	15.49
3+00	9.87	25.36
4+00	4.57	29.92

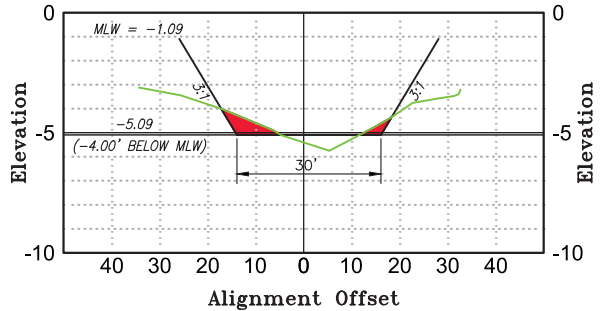


AERIAL PHOTO: FDOT 2020

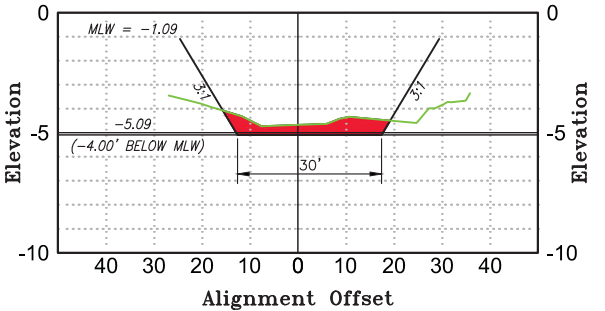
Elevations Table (NAVD88)	
Color	Elev. (FEET)
Dark Red	0 to -1
Red	-1 to -2
Dark Orange	-2 to -3
Orange	-3 to -4
Light Orange	-4 to -5
Yellow	-5 to -6
Light Green	-6 to -7
Green	-7 to -8
Light Blue	-8 to -9
Blue	-9 to -10
Light Purple	-10 to -11
Purple	-11 to -12
Dark Purple	-12 to -13
Dark Blue	-13 to -14
Blue-Gray	-14 to -15
Gray	-15 to -16
Light Green	-16 to -17
Green	-17 to -18
Dark Green	-18 to -19
Black	-19 to -20



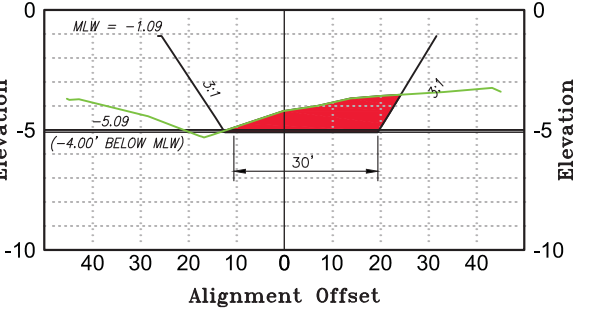
Cross Section at
STA: 0+00 / SL-1
Horiz Scale: 1" = 40'
Vertical Exaggeration = 5'



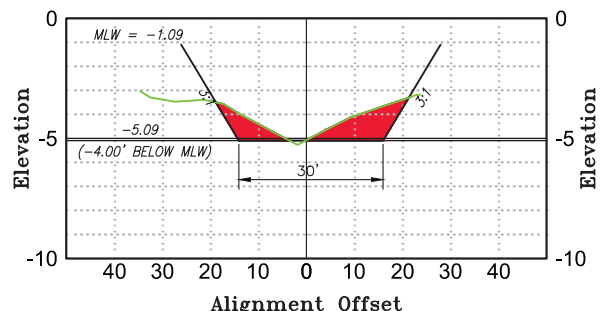
Cross Section at
STA: 1+00 / SL-2
Horiz Scale: 1" = 40'
Vertical Exaggeration = 5'



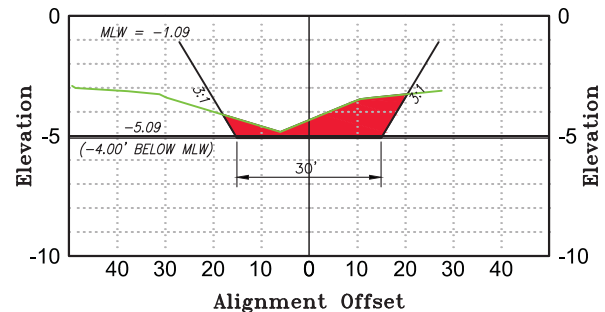
Cross Section at
STA: 2+00 / SL-3
Horiz Scale: 1" = 40'
Vertical Exaggeration = 5'



Cross Section at
STA: 3+00 / SL-4
Horiz Scale: 1" = 40'
Vertical Exaggeration = 5'



Cross Section at
STA: 4+00 / SL-5
Horiz Scale: 1" = 40'
Vertical Exaggeration = 5'



Cut Volume Table (Cubic Yards)

Station	Cut Vol	Cum Cut Vol
0+00	0.00	0.00
1+00	45.98	45.98
2+00	96.08	142.06
3+00	113.32	255.39
4+00	105.69	361.08

JOHNSON ENGINEERING
 JOHNSON ENGINEERING, INC.
 17833 MURDOCK CIRCLE
 PORT CHARLOTTE, FLORIDA 33948
 PHONE: (941) 625-9919
 E.B. #642 & L.B. #642

HARBOUR HEIGHTS
 INTERNAL CANALS
 MAINTENANCE SPOT
 DREDGING

CHARLOTTE COUNTY BOARD OF
 COUNTY COMMISSIONERS
 SECTIONS 22 & 28, TOWNSHIP 40 SOUTH, RANGE 23 EAST
 CHARLOTTE COUNTY, FLORIDA

NO.	REVISIONS DESCRIPTION

DATE: 03-02-2022
 PROJECT NO. 20214155-000
 FILE NO. 22-40-23
 SCALE: AS SHOWN

SAN MARINO CANAL

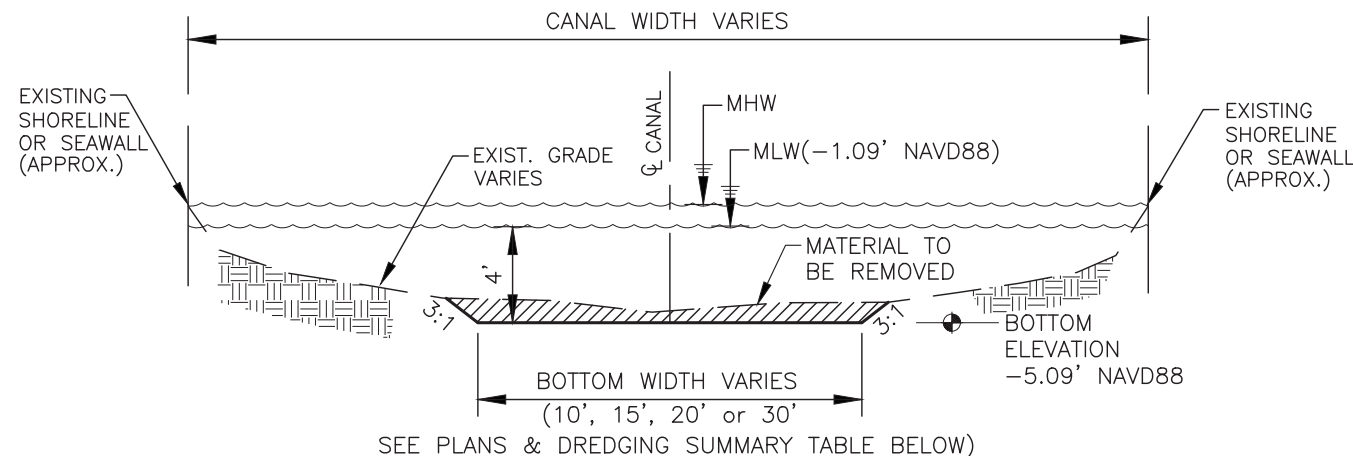
SHEET NUMBER
 08

DREDGING NOTES:

- BENCHMARKS SHOWN ARE IN FEET REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD88).
- PROPOSED DREDGE BOTTOM 4' DEPTH IS ELEVATION -5.09' NAVD88 OR -4' BELOW MLW OF -1.09' NAVD88.
- AN OVERDEPTH TOLERANCE OF 0.4' OR ELEVATION -5.49' NAVD88 WILL BE ALLOWED. HOWEVER, THE TOTAL PAY QUANTITY WILL NOT EXCEED THE QUANTITY BID.
- FULL DEPTH (-5.49' NAVD88) EXCAVATION OPERATIONS WILL COME NO CLOSER THAN 5' TO ANY SEAWALL OR DOCK PILING.
- THE CONTRACTOR SHALL CONTACT ALL UTILITY COMPANIES TO DETERMINE THE EXACT LOCATION OF THEIR LINES BEFORE BEGINNING EXCAVATION OPERATIONS. COORDINATE WORK WITH THE UTILITY COMPANIES TO INSURE FACILITIES ARE PROTECTED AND SERVICE IS MAINTAINED.
- THE CONTRACTOR SHALL USE TURBIDITY CURTAINS AROUND THE DREDGING EQUIPMENT AT ALL TIMES AND AT NO TIME SHALL ACCESS BY THE BOATING PUBLIC BE IMPEDED.

SPOIL SITE NOTES:

- FOR THIS PROJECT, THE CONTRACTOR IS RESPONSIBLE FOR LOCATING A SUITABLE SPOIL OFFLOAD SITE WITHOUT WETLANDS OR ENDANGERED SPECIES.
- THE CONTRACTOR SHALL GET PRE-APPROVAL FROM THE COUNTY ALONG WITH THE PROPER AGREEMENTS WITH THE PRIVATE PROPERTY OWNER THAT ALSO NEEDS TO BE PRE-APPROVED AND ACCEPTED BY THE COUNTY. ANY ALTERNATE SITE SELECTED BY THE CONTRACTOR SHALL BE UPLAND AND USE PRECAUTIONS LISTED HEREIN AND IN THE PERMITS.
- SPOIL MATERIAL WILL BE HAULED TO THE ZEMEL ROAD LANDFILL. TRUCK ROUTE IS I-75 SOUTH TO TUCKERS GRADE AND SOUTH ON U.S. 41 TO ZEMEL RD. COUNTY WILL WAIVE TIPPING FEES.
- CONTRACTOR SHALL UTILIZE BEST MANAGEMENT PRACTICES AT ALL TIMES AND NOT ALLOW ANY WATER TO RETURN TO WATERS OF THE STATE.
- CONTRACTOR SHALL USE STAKED SILT FENCE AROUND THE SPOIL SITE. UPON COMPLETION CONTRACTOR SHALL RESTORE SITE TO BETTER THAN ORIGINAL CONDITIONS AS DETERMINED BY THE COUNTY AND RE-ESTABLISH GRASS ON ALL DISTURBED AND BARREN AREAS.

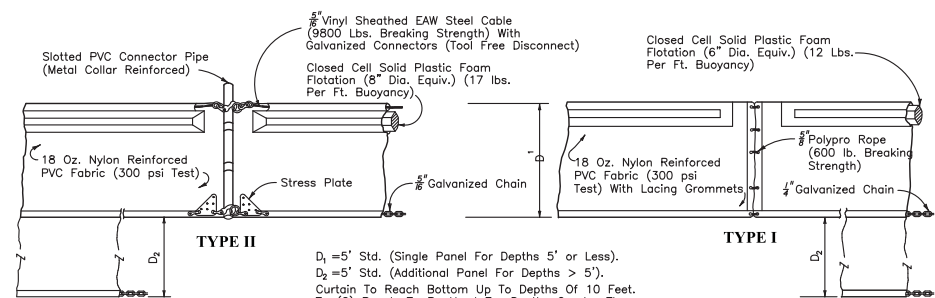


Typ. Dredging Cross Section

NOT TO SCALE

HARBOUR HEIGHTS SPOT DREDGING SUMMARY TABLE:

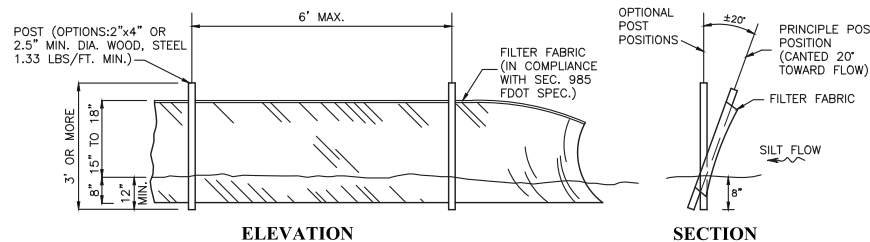
WATERWAY	APPROX. STATIONS	LENGTH	BOT. WIDTH	N.A.V.D.	QUANTITY
Balboa Canal (S.)	0+00 to 4+00	400 LF	20' B.W.	-5.09'	±16 C.Y.
Balboa Canal (N.)	0+00 to 4+88	488 LF	20' B.W.	-5.09'	±118 C.Y.
Santa Clara Canal	0+00 to 3+00	300 LF	30' B.W.	-5.09'	±114 C.Y.
San Salvador Canal (S.)	0+00 to 3+00	300 LF	15' B.W.	-5.09'	±73 C.Y.
San Salvador Canal (N.)	0+00 to 4+00	400 LF	15' B.W.	-5.09'	±30 C.Y.
San Marino Canal	0+00 to 4+00	400 LF	30' B.W.	-5.09'	±362 C.Y.
TOTAL:					±713 C.Y.



NOTICE: 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.

Floating Turbidity Barriers

NOT TO SCALE



NOTE: REFER TO F.D.O.T. INDEX NO. 102. CONTRACTOR TO INSPECT SILT FENCE DAILY AND REPAIR IMMEDIATELY IF DAMAGED.

Type III Silt Fence

NOT TO SCALE

NO.	DESCRIPTION

DATE: 05-09-2022
PROJECT NO. 20214155-000
FILE NO. 22-40-23
SCALE: AS SHOWN

CONSTRUCTION NOTES & DETAILS

SHEET NUMBER