

**SWG-2019-00067; PCCA
CDP Proposed Project Plans
Sheet 1/23**

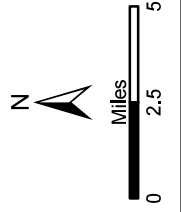


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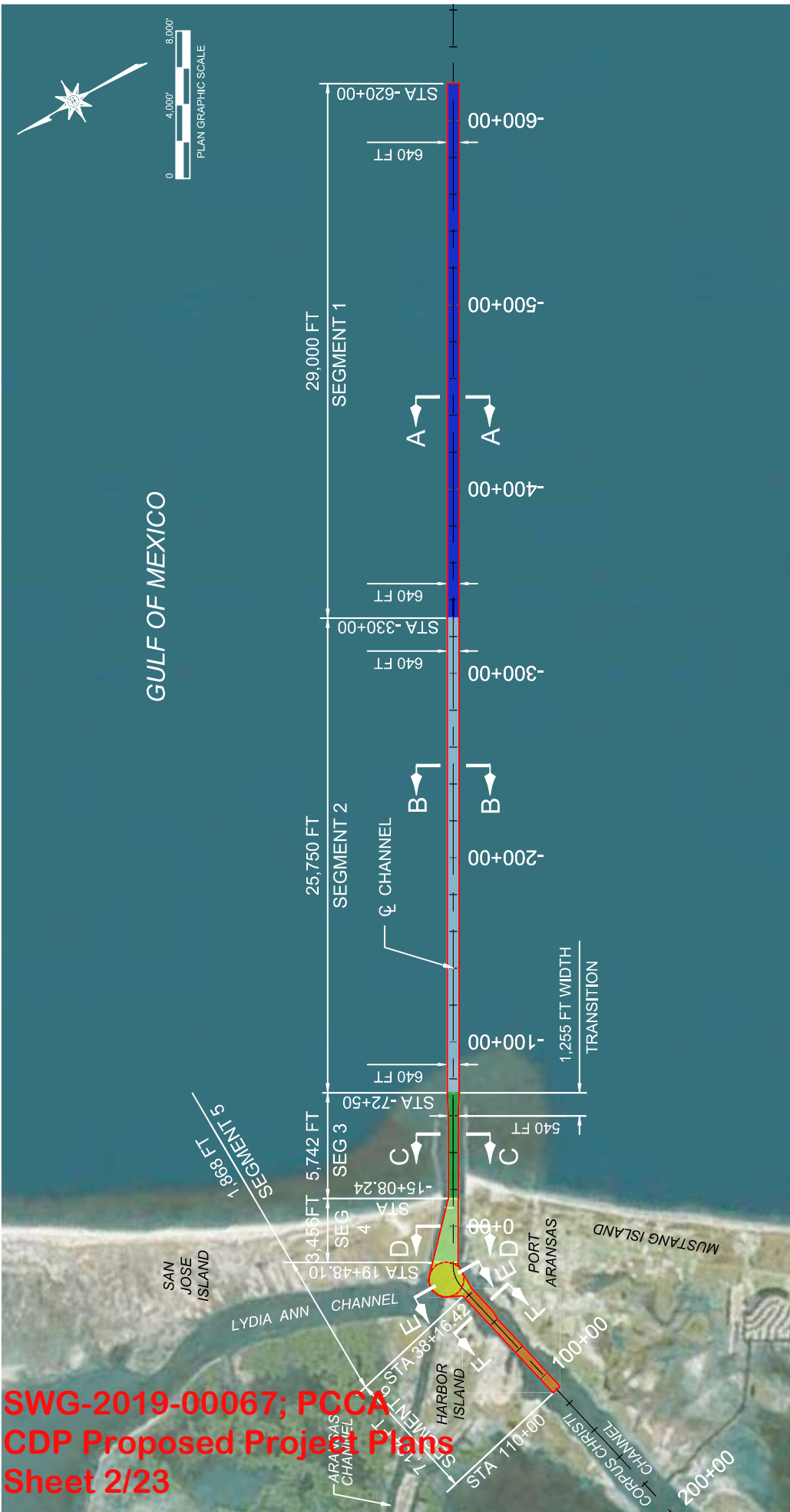


Vicinity Map	
Project	Corpus Christi Ship Channel Deepening Project
Client	Port of Corpus Christi Authority
Drawn By	DS
Date	5/28/2019
Project No.	60578632

- Legend**
- - - Corpus Christi Ship Channel
 - - - CCSC Deepening Extension
 - Project Location
 - Texas Coastal Boundary
 - County Boundary



AECOM
5444 Westheimer Road, Suite 400
Houston, Texas 77056
Tel: 713-780-4100



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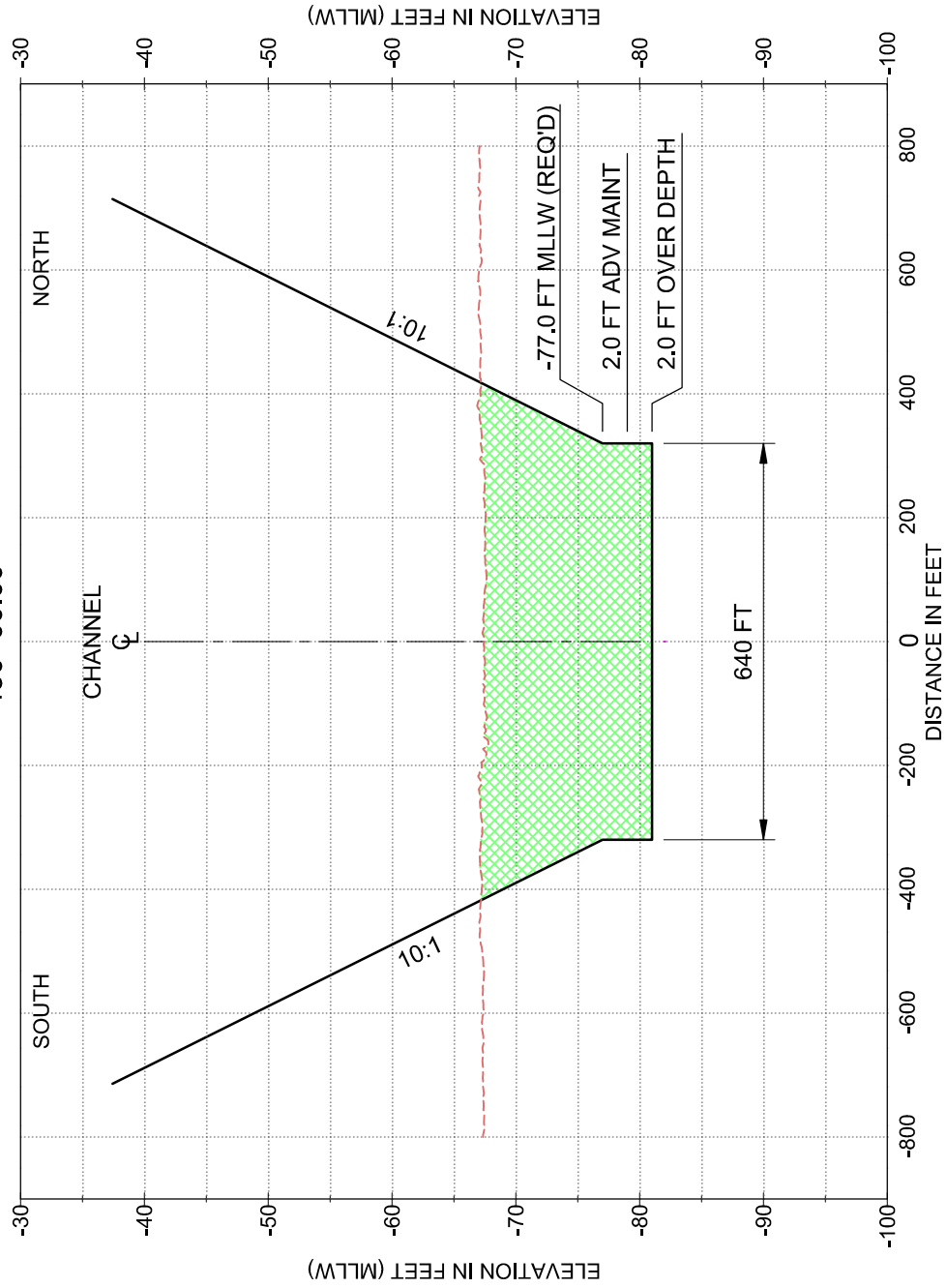
DREDGING PLAN

SCALE: 1" = 8000'

SEGMENT	STATIONING (@ CHANNEL CL)		*DEPTH (FT BELOW MLLW)	DESCRIPTION	PLAN VIEW LEGEND
	FROM	TO			
1	STA -620+00	STA -330+00	-77.0	Outer Channel	[Blue Box]
2	STA -330+00	STA -72+50	-77.0	Approach Channel	[Light Blue Box]
3	STA -72+50	STA -15+08.24	-75.0	Jetties to Harbor Island Transition Flare	[Green Box]
4	STA -15+08.24	STA 19+48.10	-75.0	Harbor Island Transition Flare	[Light Green Box]
5	STA 19+48.10	STA 38+16.42	-75.0	Harbor Island Junction	[Yellow Box]
6	STA 38+16.42	STA 110+00	-75.0	Corpus Christi Channel	[Orange Box]

* DESIGN DEPTH SHOWN. DOES NOT INCLUDE 2.0 FT ADVANCED MAINTENANCE DREDGING OR 2.0 FT ALLOWABLE OVER DREDGE.

CROSS SECTION A-A (TYPICAL SECTION)
-450+00.00



CROSS SECTION LEGEND:

- - - - - EXISTING BOTTOM
- - - - - EXISTING CHANNEL DREDGE TEMPLATE
- PROPOSED CHANNEL
- ▨ PROPOSED AREA TO BE DREDGED

CROSS SECTION GRAPHIC SCALES:

300'
HORIZONTAL: 1" = 300'

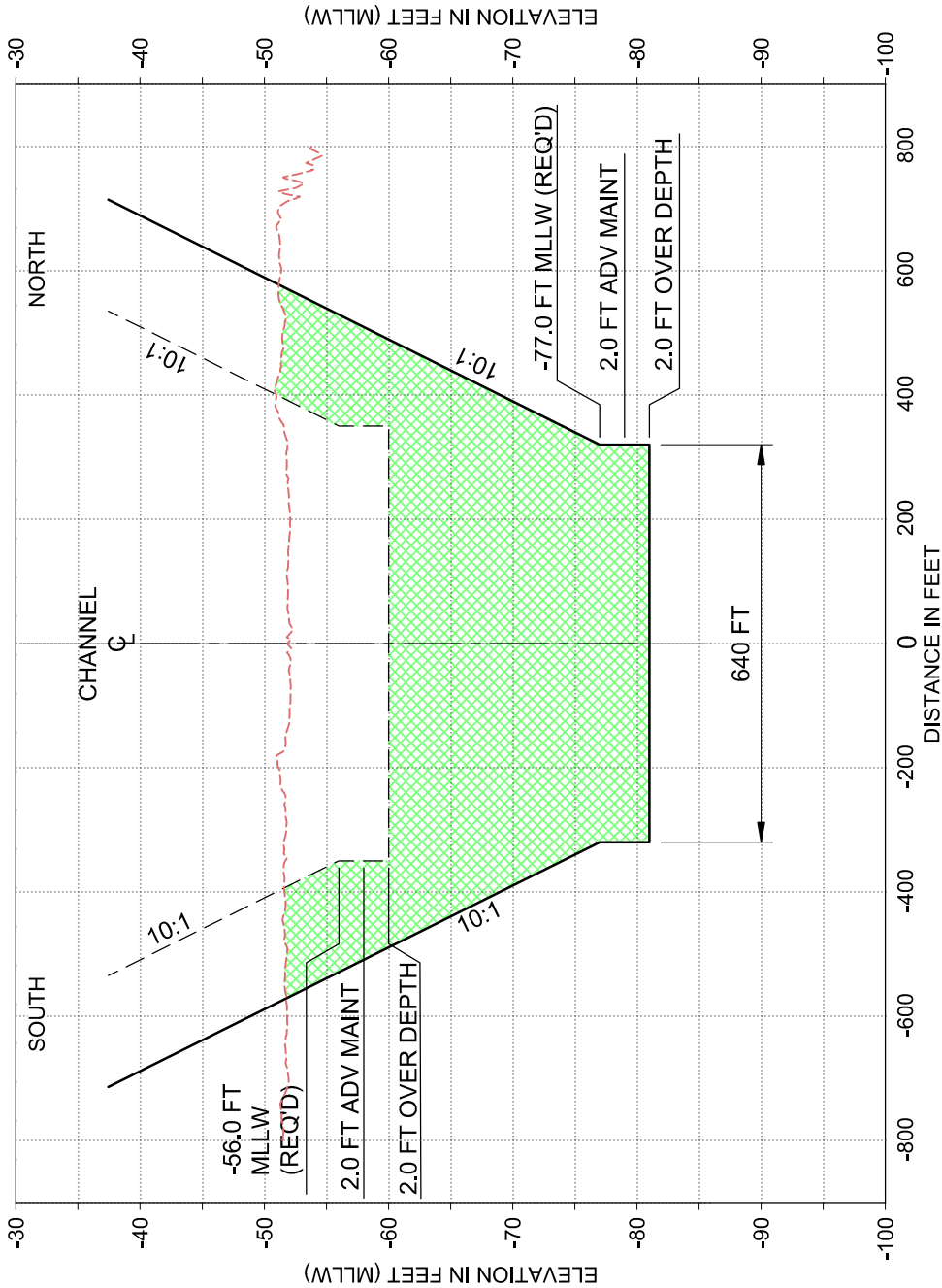
15'
VERTICAL: 1" = 15'

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Corpus Christi Ship Channel Deepening Project
Individual Permit Application SWG-2019-00067
Preferred Channel Alternative
Dredging Cross Section A-A
STA -450+00.00

County: Aransas and Nueces
Application By: Port of Corpus Christi Authority
State: Texas
Date: May 2019

CROSS SECTION B-B (TYPICAL SECTION)
-250+00.00



CROSS SECTION LEGEND:

- - - - - EXISTING BOTTOM
- - - - - EXISTING CHANNEL DREDGE TEMPLATE
- — — — — PROPOSED CHANNEL
- ▨ PROPOSED AREA TO BE DREDGED

CROSS SECTION GRAPHIC SCALES:

300'
HORIZONTAL: 1" = 300'

15'
VERTICAL: 1" = 15'

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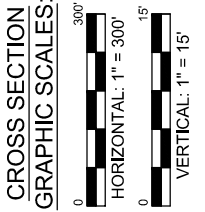
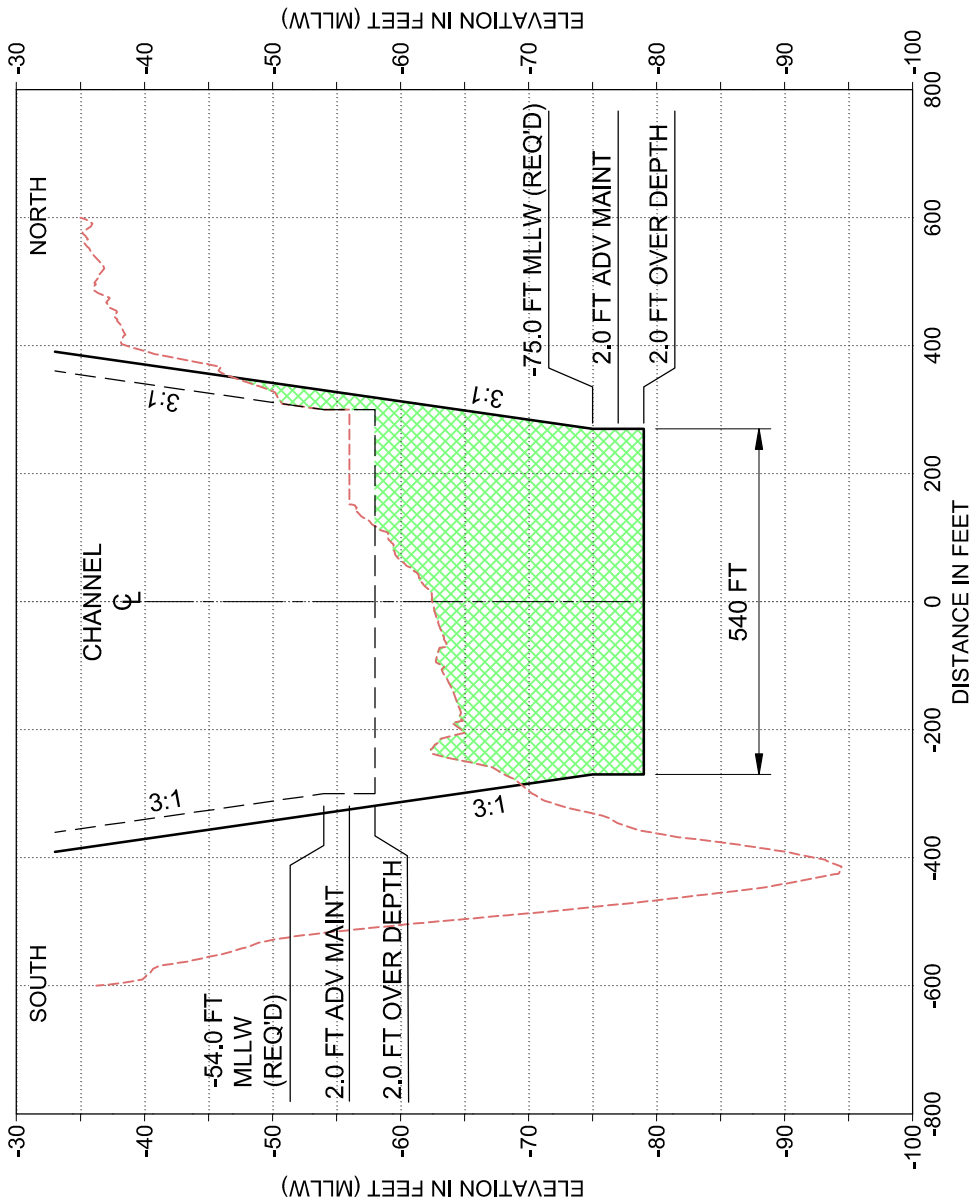
Corpus Christi Ship Channel Deepening Project
Individual Permit Application SWG-2019-00067

Preferred Channel Alternative
Dredging Cross Section B-B
STA -250+00.00

County: Aransas and Nueces
Application By: Port of Corpus Christi Authority
State: Texas
Date: May 2019

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**CROSS SECTION C-C (TYPICAL SECTION)
-50+00.00**



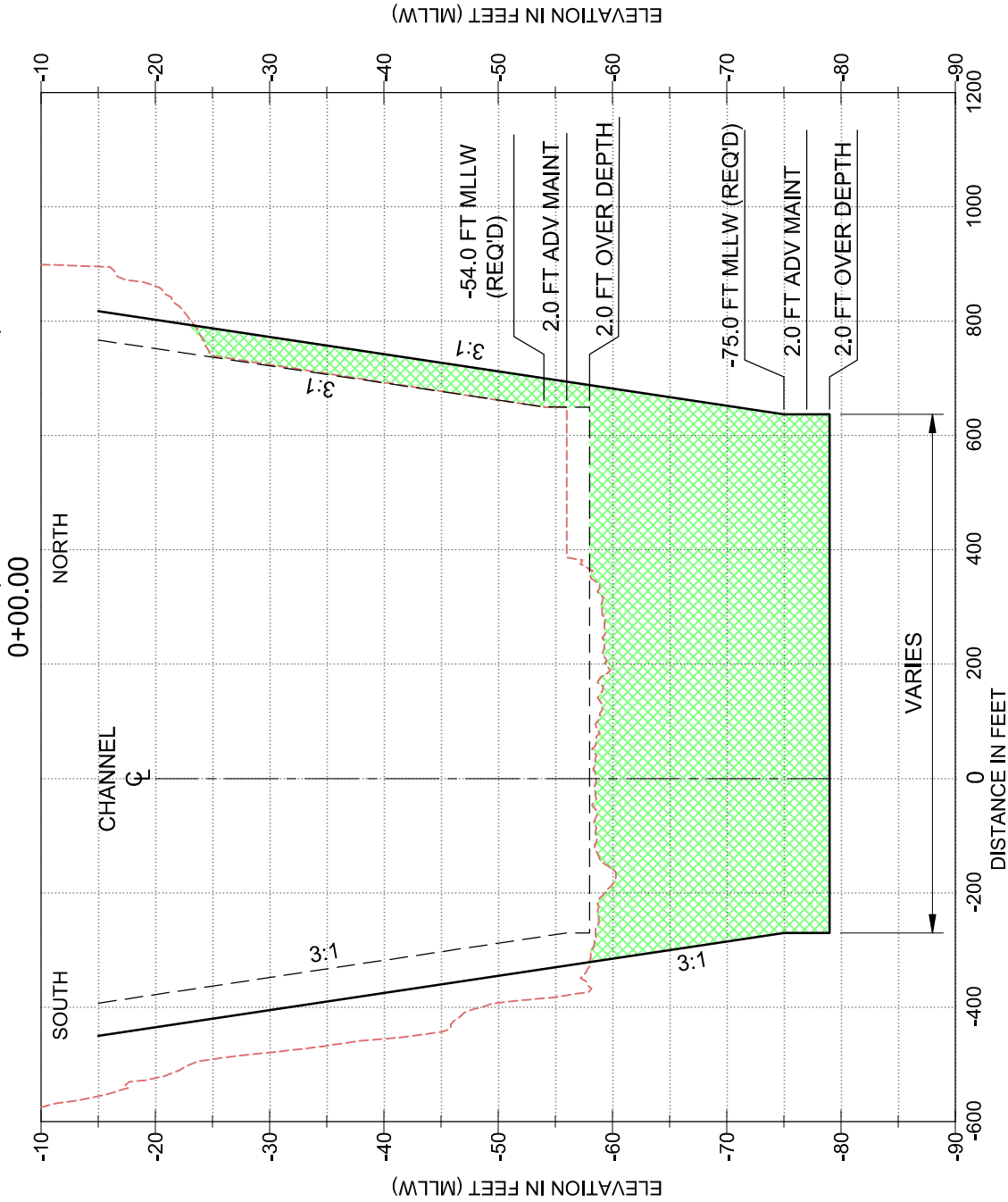
Sheet 5 of 23

Corpus Christi Ship Channel Deepening Project
Individual Permit Application SWG-2019-00067
Preferred Channel Alternative
Dredging Cross Section C-C
STA -50+00.00

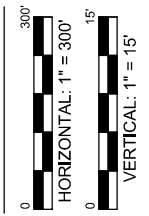
County: Aransas and Nueces
Application By: Port of Corpus Christi Authority
State: Texas
Date: May 2019

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**CROSS SECTION D-D (TYPICAL SECTION)
0+00.00**



**CROSS SECTION
GRAPHIC SCALES:**



CROSS SECTION LEGEND:

- EXISTING BOTTOM
- - - EXISTING CHANNEL DREDGE TEMPLATE
- PROPOSED CHANNEL
- ▨ PROPOSED AREA TO BE DREDGED

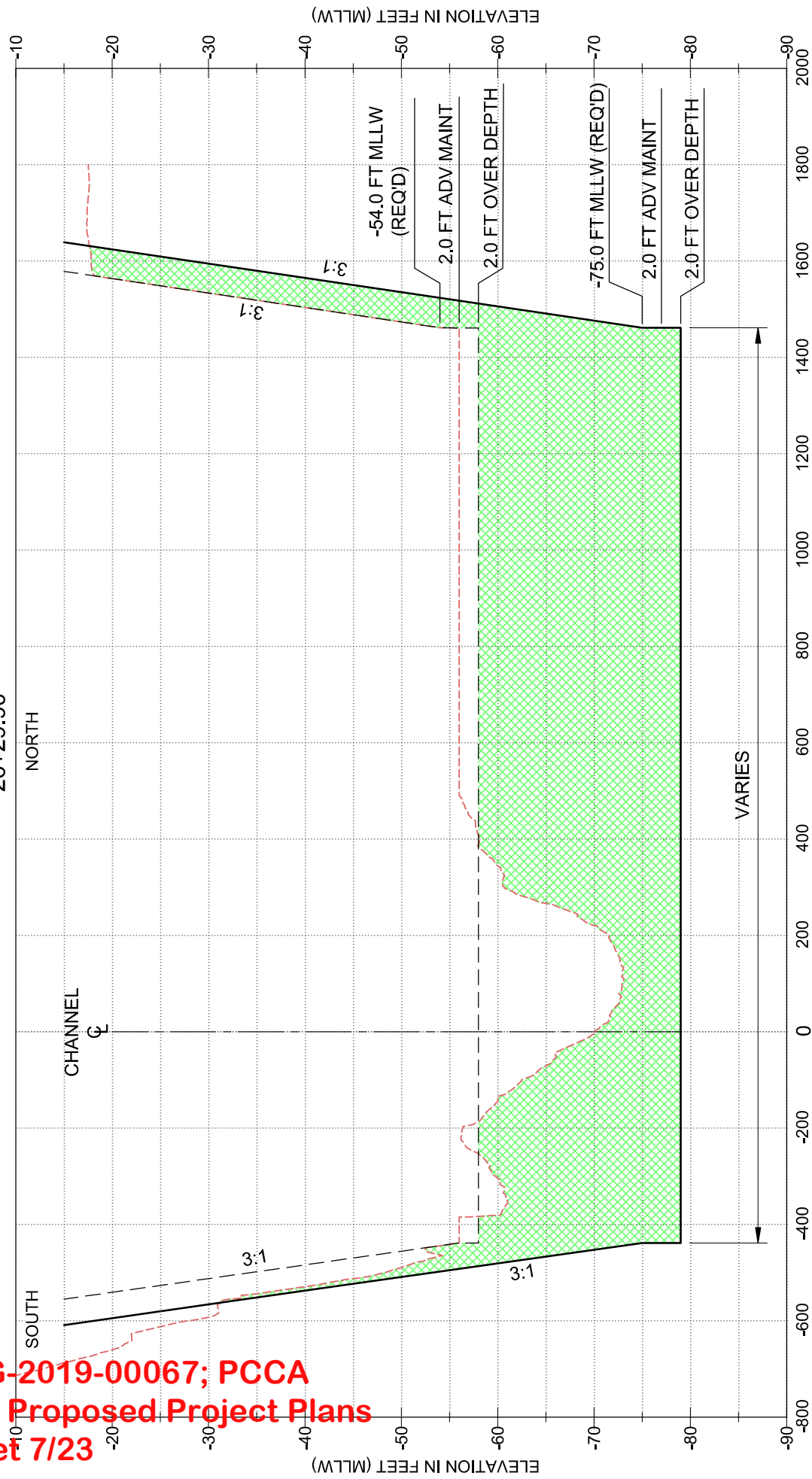
Sheet 6 of 23

Corpus Christi Ship Channel Deepening Project
Individual Permit Application SWG-2019-00067

**Preferred Channel Alternative
Dredging Cross Section D-D
STA 0+00.00**

County: Aransas and Nueces
Application By: Port of Corpus Christi Authority
State: Texas
Date: May 2019

CROSS SECTION E-E (SECTION @ CENTER OF TURNING BASIN)
26+29.90



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Corpus Christi Ship Channel Deepening Project
Individual Permit Application SWG-2019-00067

Preferred Channel Alternative
Dredging Cross Section E-E
STA 26+29.90

County: Aransas and Nueces
Application By: Port of Corpus Christi Authority
State: Texas
Date: May 2019

CROSS SECTION GRAPHIC SCALES:
HORIZONTAL: 1" = 300'
VERTICAL: 1" = 15'

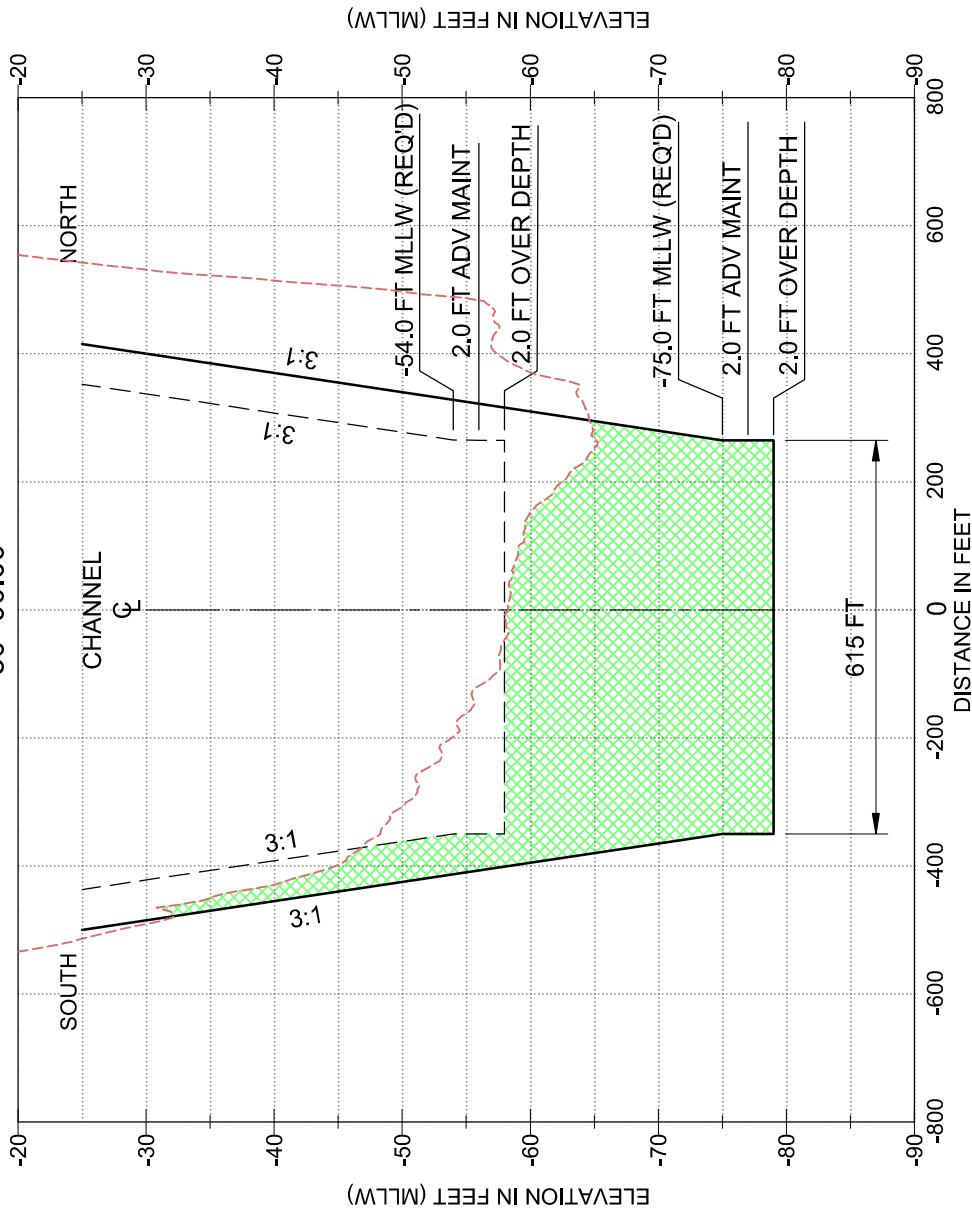
CROSS SECTION LEGEND:

- EXISTING BOTTOM
- EXISTING CHANNEL DREDGE TEMPLATE
- PROPOSED CHANNEL
- ▨ PROPOSED AREA TO BE DREDGED

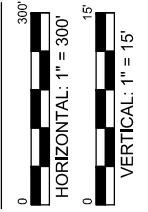
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**CROSS SECTION F-F (TYPICAL SECTION)
50+00.00**



**CROSS SECTION
GRAPHIC SCALES:**



CROSS SECTION LEGEND:

- - - - - EXISTING BOTTOM
- - - - - EXISTING CHANNEL DREDGE TEMPLATE
- — — — — PROPOSED CHANNEL
- [Green Cross-hatch] PROPOSED AREA TO BE DREDGED

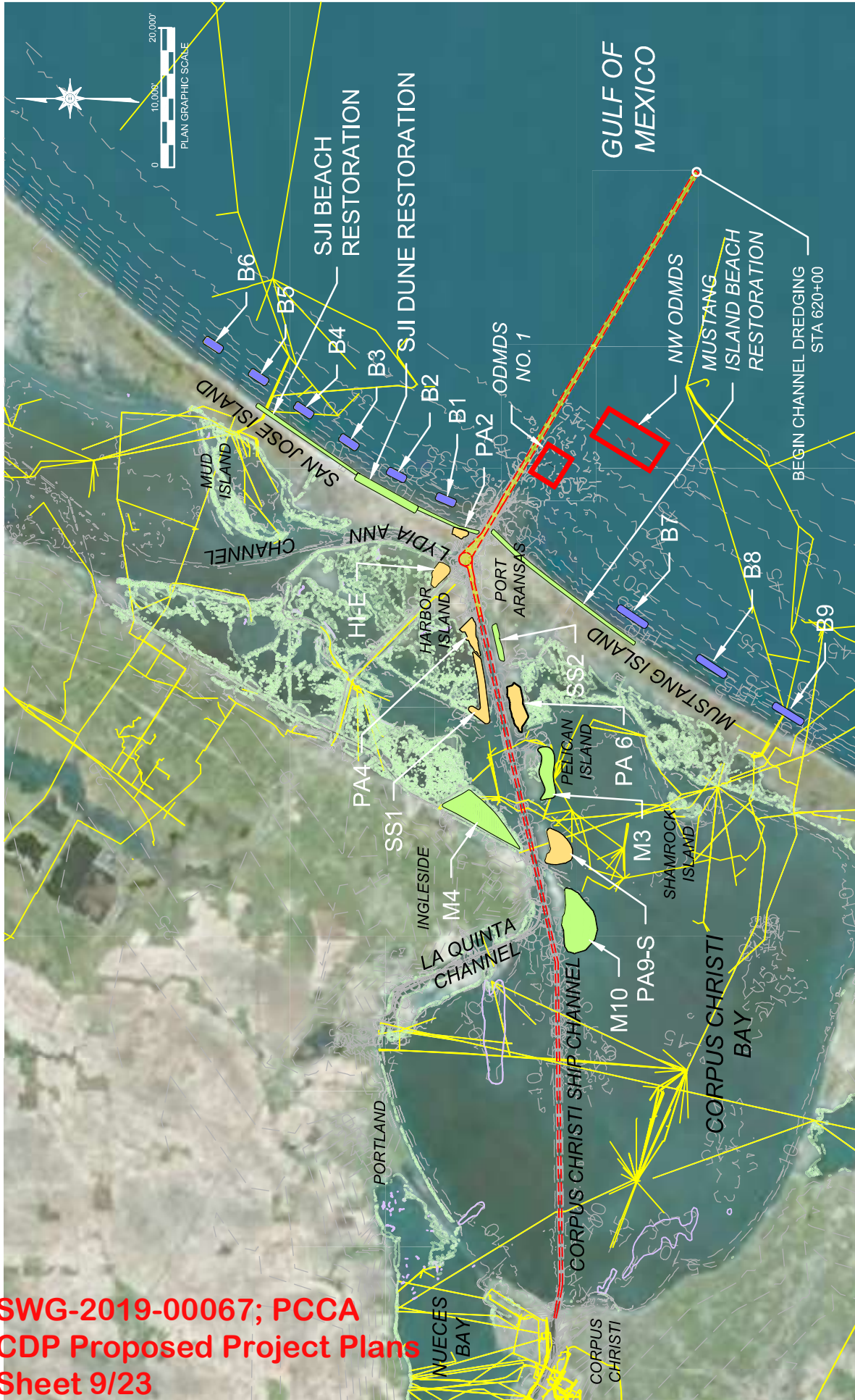
Sheet 8 of 23

Corpus Christi Ship Channel Deepening Project
Individual Permit Application SWG-2019-00067

**Preferred Channel Alternative
Dredging Cross Section F-F
STA 50+00.00**

County: Aransas and Nueces
Application By: Port of Corpus Christi Authority
State: Texas
Date: May 2019

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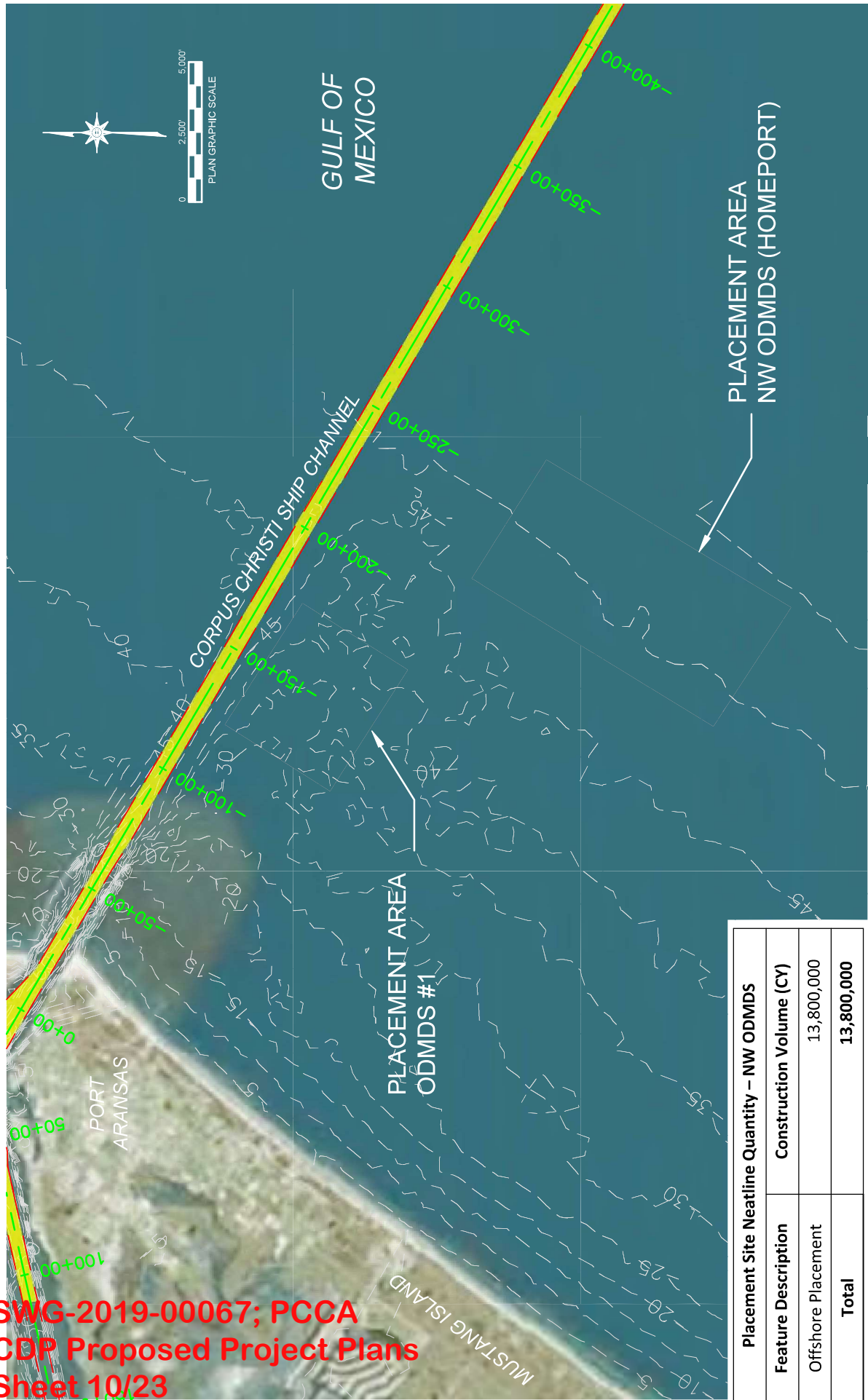
LEGEND

- DEEPENING IMPROVEMENTS (-75' / -77' MLLW)
- DREDGE MATERIAL PLACEMENT AREA
- EXIST OFFSHORE PLACEMENT AREA
- EXIST SEAGRASS (RETRIEVED FROM NOAA CSC, 2007)
- EXIST OYSTER REEFS (RETRIEVED FROM TPWD, 2004)
- EXIST PIPELINES (SEE NOTE 4)

GENERAL NOTES

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**OVERALL DREDGE MATERIAL
PLACEMENT PLAN**



Placement Site Neatline Quantity – NW ODMDS	
Feature Description	Construction Volume (CY)
Offshore Placement	13,800,000
Total	13,800,000

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LEGEND

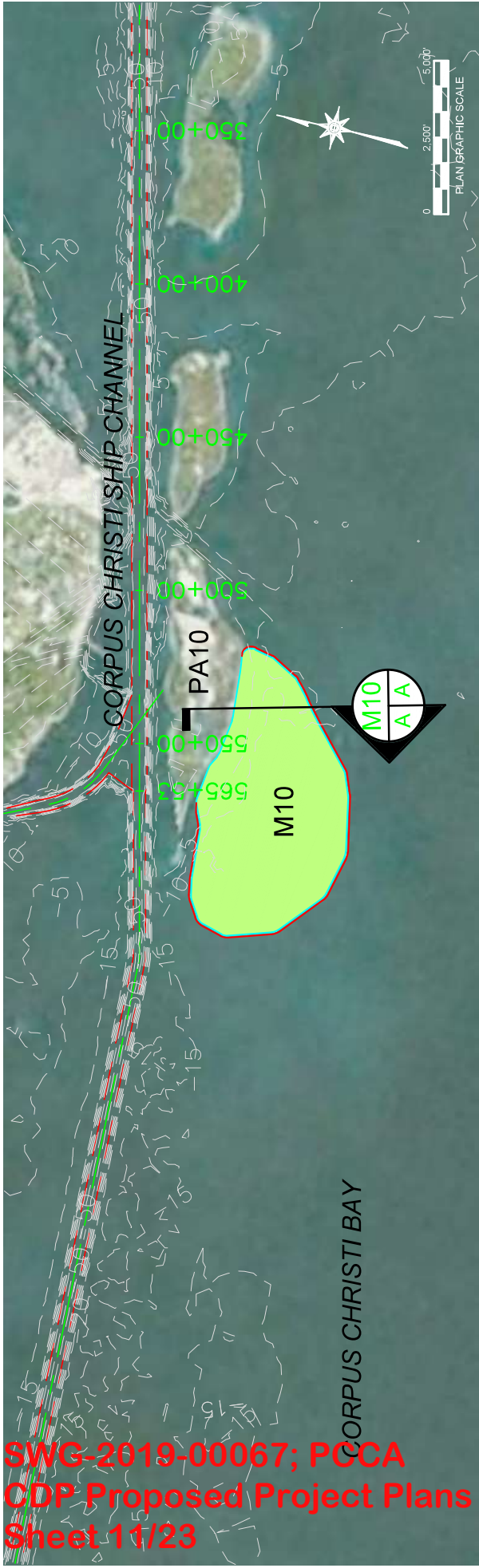
- DEEPENING IMPROVEMENTS (-75' / -77' MLLW)
- EXIST OFFSHORE PLACEMENT AREA
- EXIST CONTOURS

Corpus Christi Ship Channel Deepening Project
Individual Permit Application SWG-2019-00067

**OFFSHORE DREDGE
MATERIAL PLACEMENT
NW ODMDS (HOMEPORT)**

County: Aransas and Nueces State: Texas
Application By: Port of Corpus Christi Authority Date: May 2019

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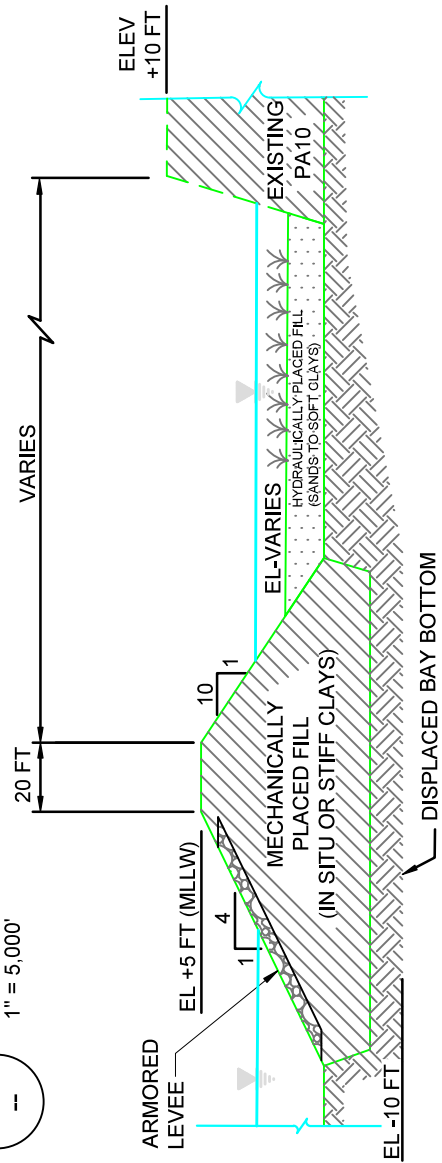


M10 PLAN
1" = 5,000'

Placement Site Neatline Quantity – Site M10	
Feature Description	Construction Volume (CY)
Armoring*	10,667
Levee Creation	997,300
770 Acre Estuarine / Aquatic Habitat	9,936,300
Total	10,933,600

*Note: Quantity not included in CY total

M10 SECTION
NOT TO SCALE



- LEGEND**
- EXISTING SHIP CHANNEL
 - DREDGE MATERIAL PLACEMENT
 - EXIST CONTOURS

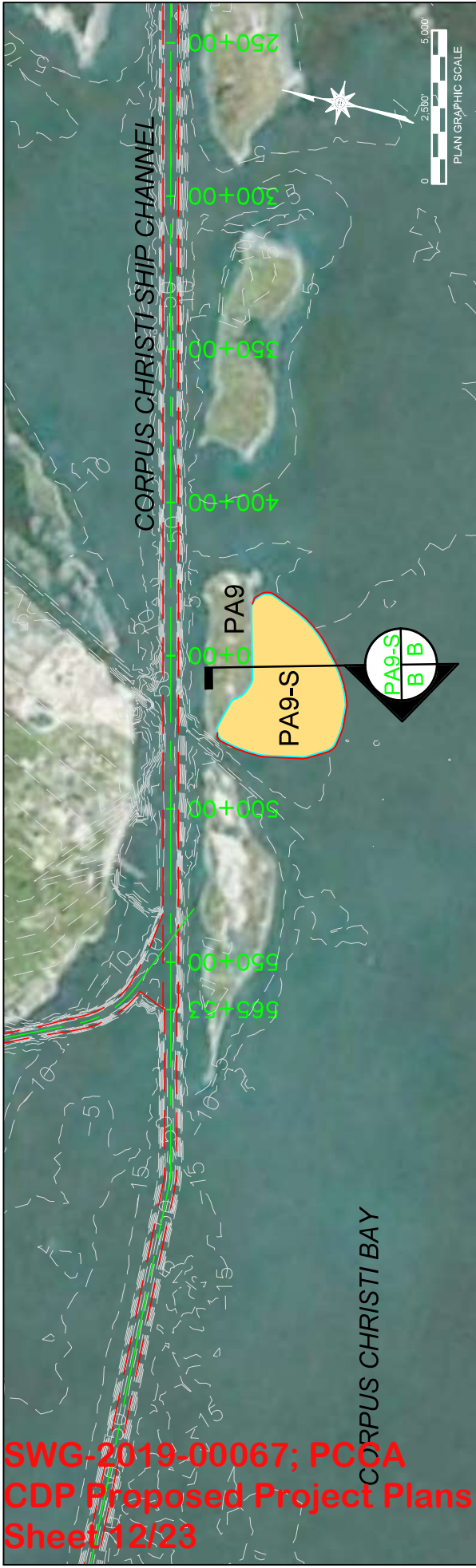
GENERAL NOTES

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Corpus Christi Ship Channel Deepening Project
Individual Permit Application SWG-2019-00067
**BENEFICIAL USE SITE
AND SECTION VIEW - M10
770 ACRE ESTUARINE / AQUATIC HABITAT**

County: Aransas and Nueces
Application By: Port of Corpus Christi Authority
State: Texas
Date: May 2019

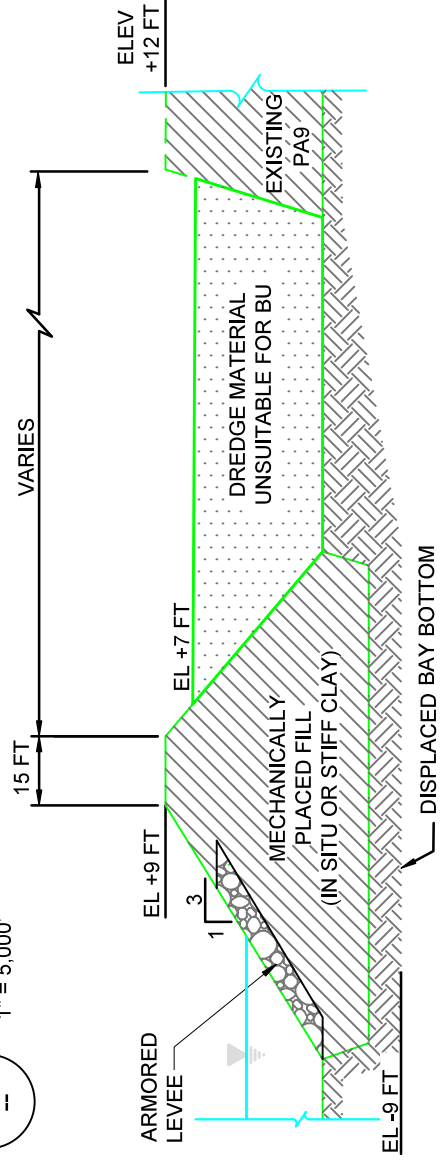
**SWG-2019-00067; PCCA
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PLAN
1" = 5,000'

Placement Site Neatline Quantity – Site PA9-S	
Feature Description	Construction Volume (CY)
Armoring*	26,400
Levee Creation	500,000
Upland Placement	8,500,000
Total	9,000,000

*Note: Quantity not included in CY total



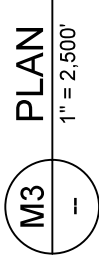
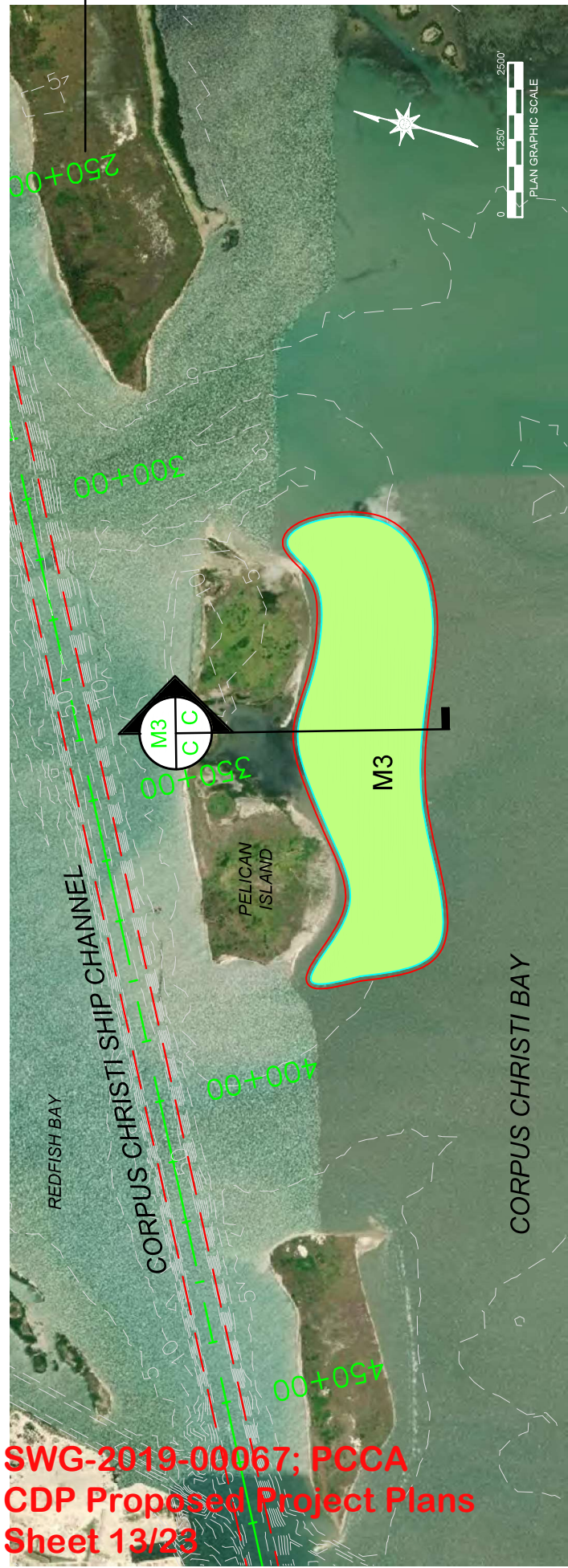
SECTION
NOT TO SCALE

- LEGEND**
- EXISTING SHIP CHANNEL
 - DREDGE MATERIAL PLACEMENT
 - EXIST CONTOURS

GENERAL NOTES

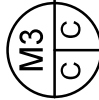
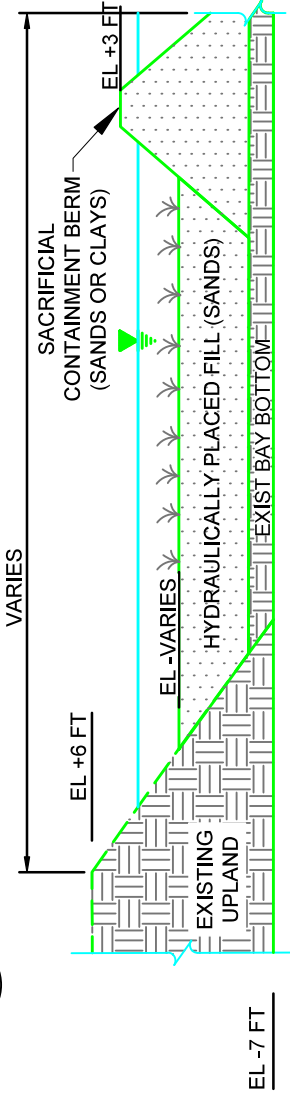
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PLAN
1" = 2,500'

Placement Site Neatline Quantity – Site M3	
Feature Description	Construction Volume (CY)
300-Acre Estuarine / Aquatic Habitat	3,798,000
Total	3,798,000



SECTION
NOT TO SCALE

LEGEND

- EXISTING SHIP CHANNEL
- DREDGE MATERIAL PLACEMENT
- EXIST CONTOURS

GENERAL NOTES

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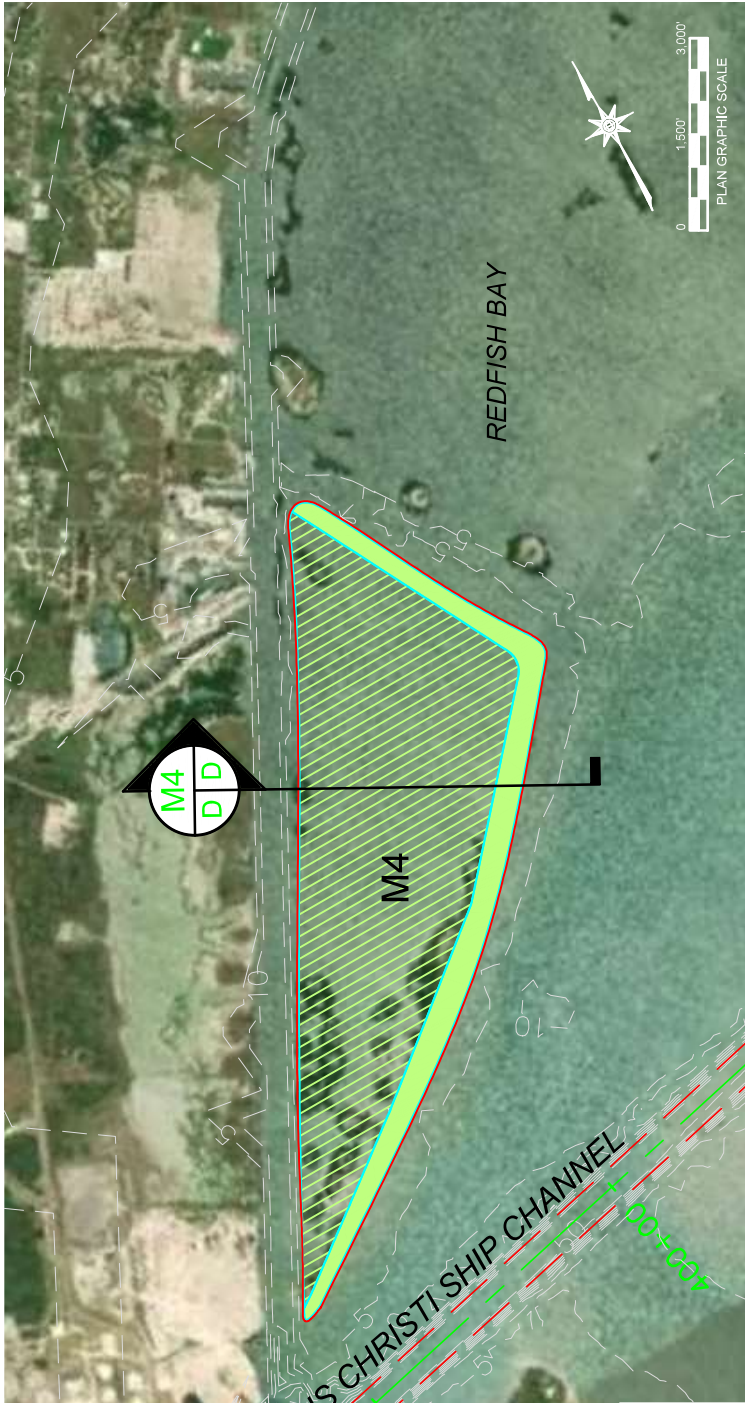
Corpus Christi Ship Channel Deepening Project
Individual Permit Application SWG-2019-00067

**BENEFICIAL USE SITE
AND SECTION VIEW - M3**

300 ACRE ESTUARINE / AQUATIC HABITAT

County: Arkansas and Nueces
Application By: Port of Corpus Christi Authority
State: Texas
Date: May 2019

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Placement Site Neatline Quantity – Site M4	
Feature Description	Construction Volume (CY)
Armoring*	6,667
Levee Creation	867,000
Total	867,000

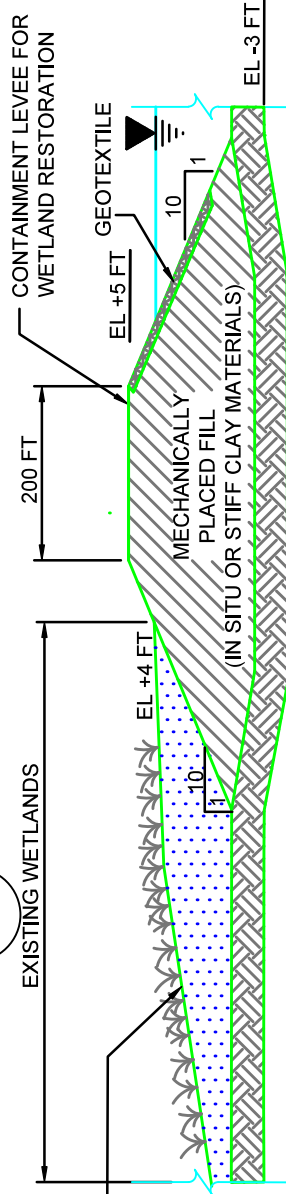
*Note: Quantity not included in CY total

**NOTE: UPDATES
BASED ON EXIST
TPWD PERMIT**

LEGEND

- EXISTING SHIP CHANNEL
- DREDGE MATERIAL PLACEMENT
- POTENTIAL WETLAND RESTORATION
- EXIST CONTOURS

M4
PLAN
1" = 3,000'

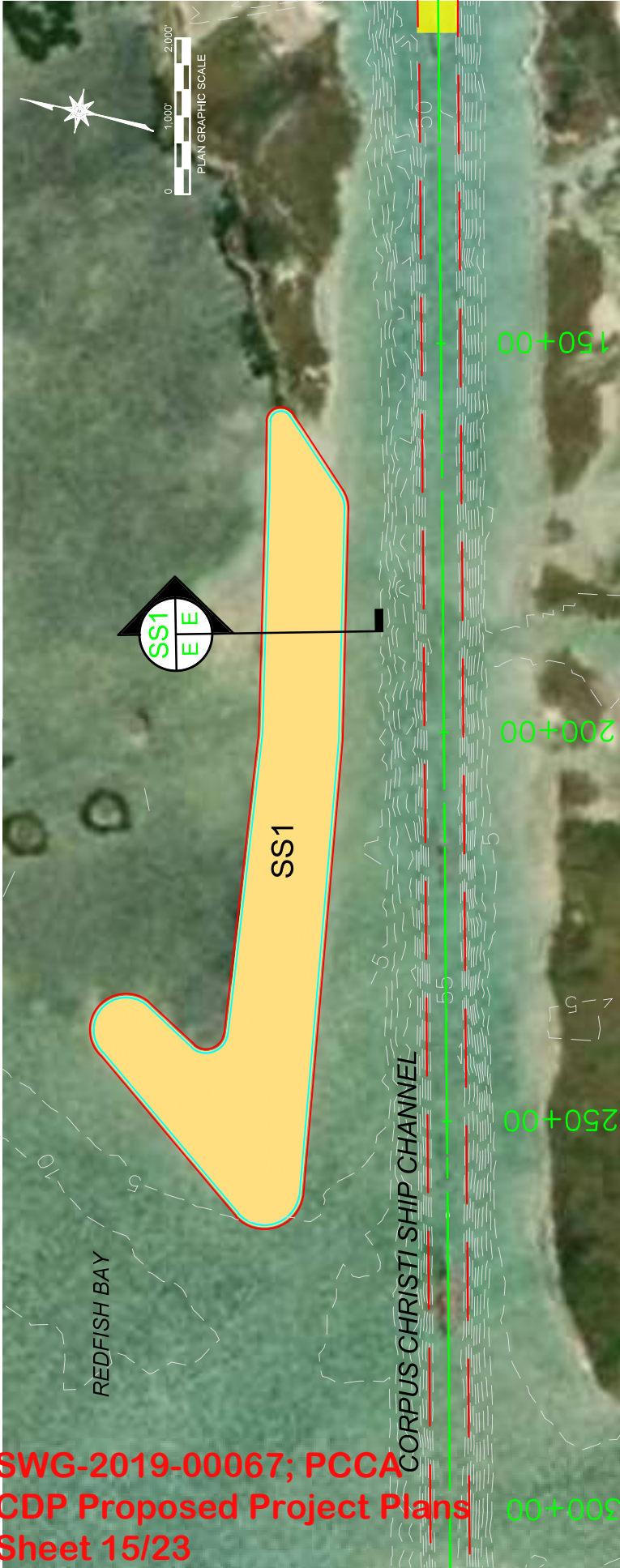


M4
SECTION
NOT TO SCALE

Corpus Christi Ship Channel Deepening Project
Individual Permit Application SWG-2019-00067
**BENEFICIAL USE SITE AND SECTION VIEW - M4
DAGGER ISLAND LEVEE CREATION**

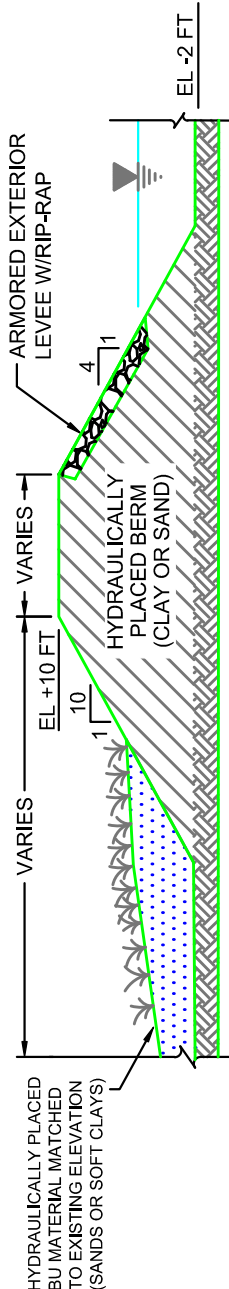
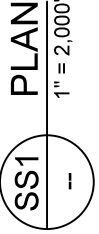
- GENERAL NOTES**
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Placement Site Neatline Quantity – Site SS1	
Feature Description	Construction Volume (CY)
Armoring*	38,500
Berm Fill	4,800,000
Total	4,800,000

*Note: Quantity not included in CY total



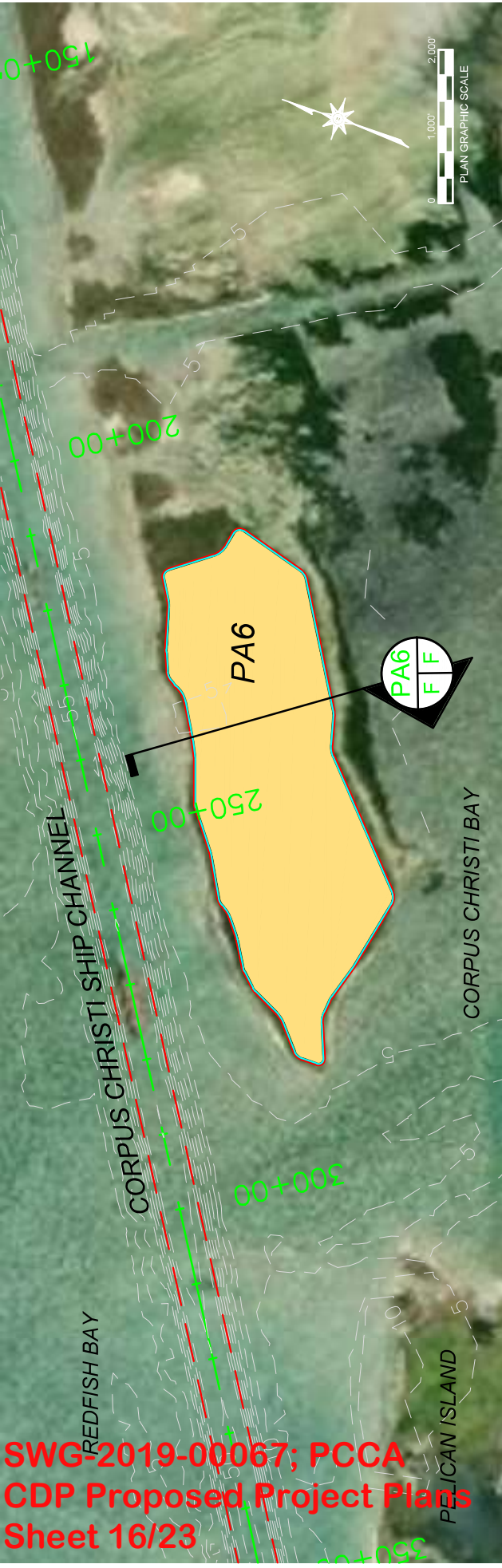
- LEGEND**
- EXISTING / PROPOSED SHIP CHANNEL DEEPENING
 - DREDGE MATERIAL PLACEMENT
 - EXIST CONTOURS

GENERAL NOTES

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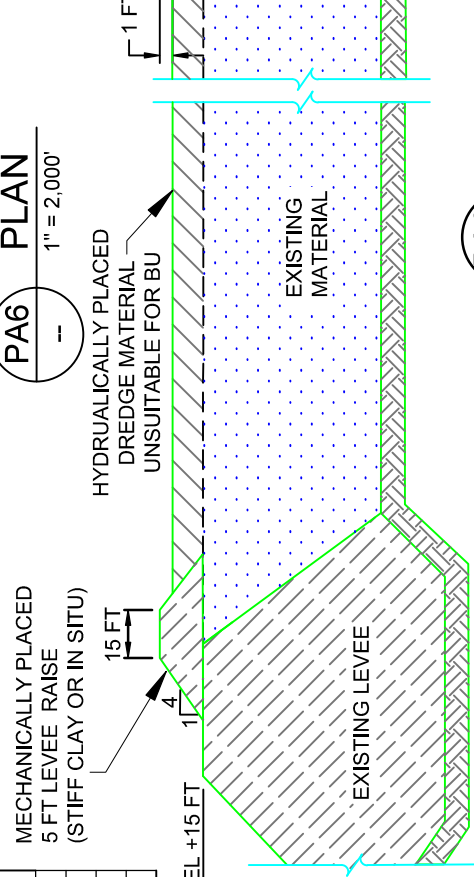
Corpus Christi Ship Channel Deepening Project
Individual Permit Application SWG-2019-00067
**BENEFICIAL USE SITE AND
SECTION VIEW - SS1
SHORELINE STABILIZATION**
County: Aransas and Nueces
Application By: Port of Corpus Christi Authority
State: Texas
Date: May 2019

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Placement Site Neatline Quantity – Site PA 6	
Feature Description	Construction Volume (CY)
5-ft Levee Raise	103,000
PA Fill	1,693,400
Total	1,796,400

PA6 PLAN
1" = 2,000'



PA6
NOT TO SCALE

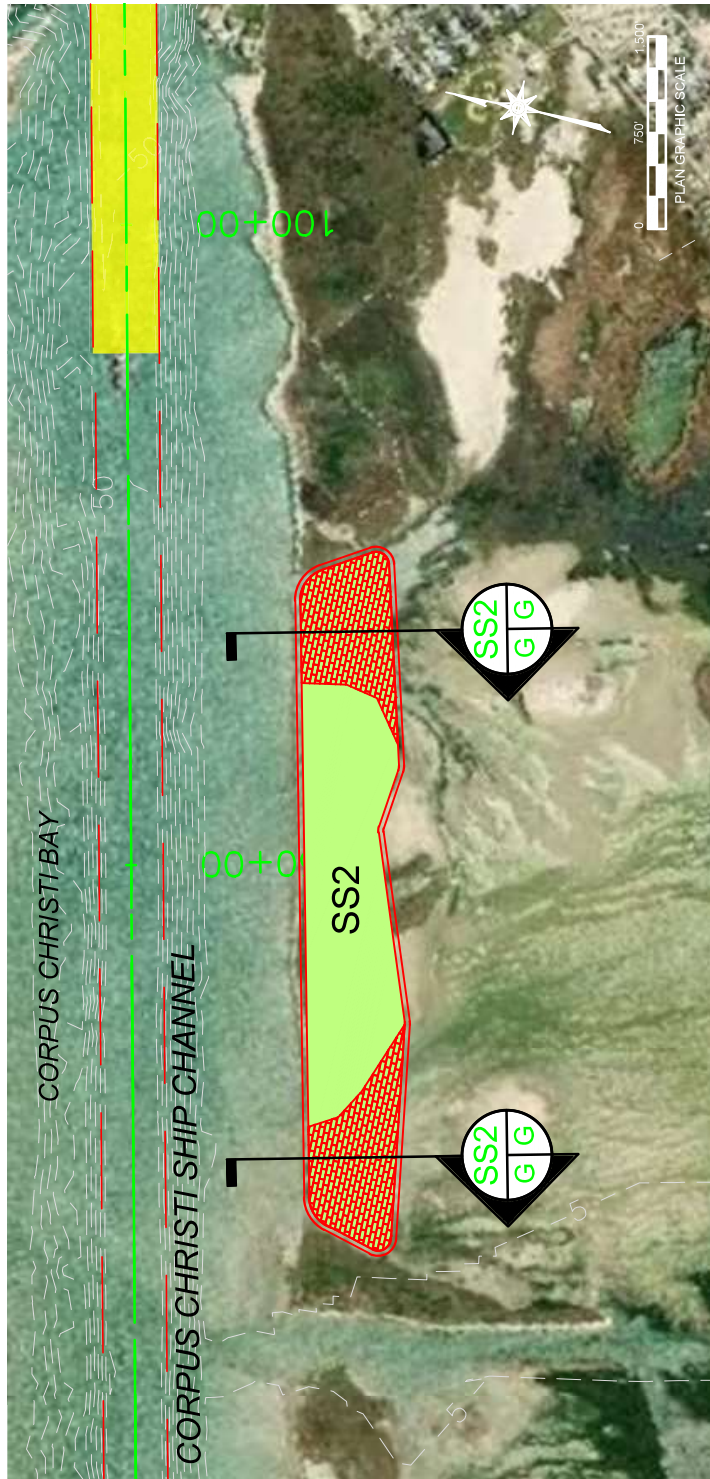
LEGEND

- EXISTING SHIP CHANNEL
- DREDGE MATERIAL PLACEMENT
- EXIST CONTOURS

GENERAL NOTES

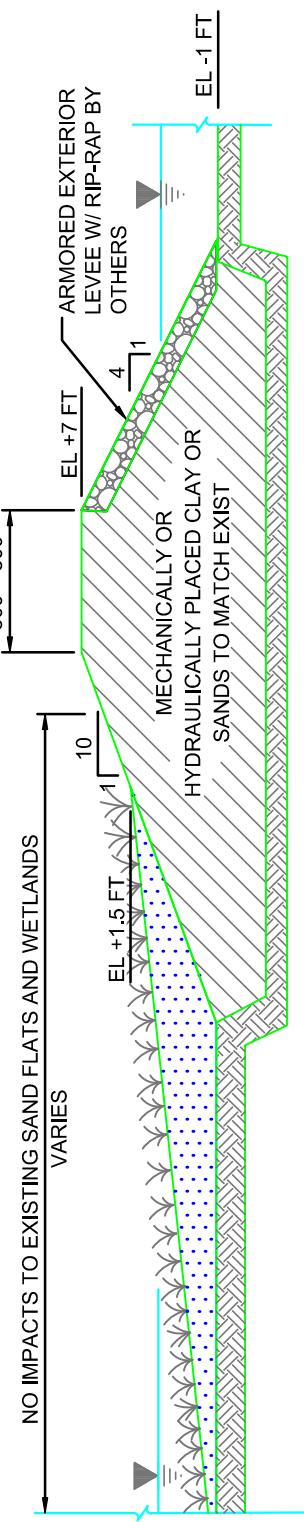
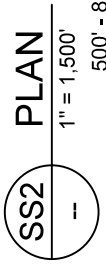
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PCCMent Site Neatline Quantity - Site SS2	
Feature Description	Construction Volume (CY)
Armoring*	13,800
Foundation Fill	669,700
Total	669,700

*Note: Quantity not included in CY total



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Corpus Christi Ship Channel Deepening Project
Individual Permit Application SWG-2019-00067
**BENEFICIAL USE SITE AND
SECTION VIEW - SS2
SHORELINE BREACH FILL IN**
County: Aransas and Nueces
Application By: Port of Corpus Christi Authority
State: Texas
Date: May 2019

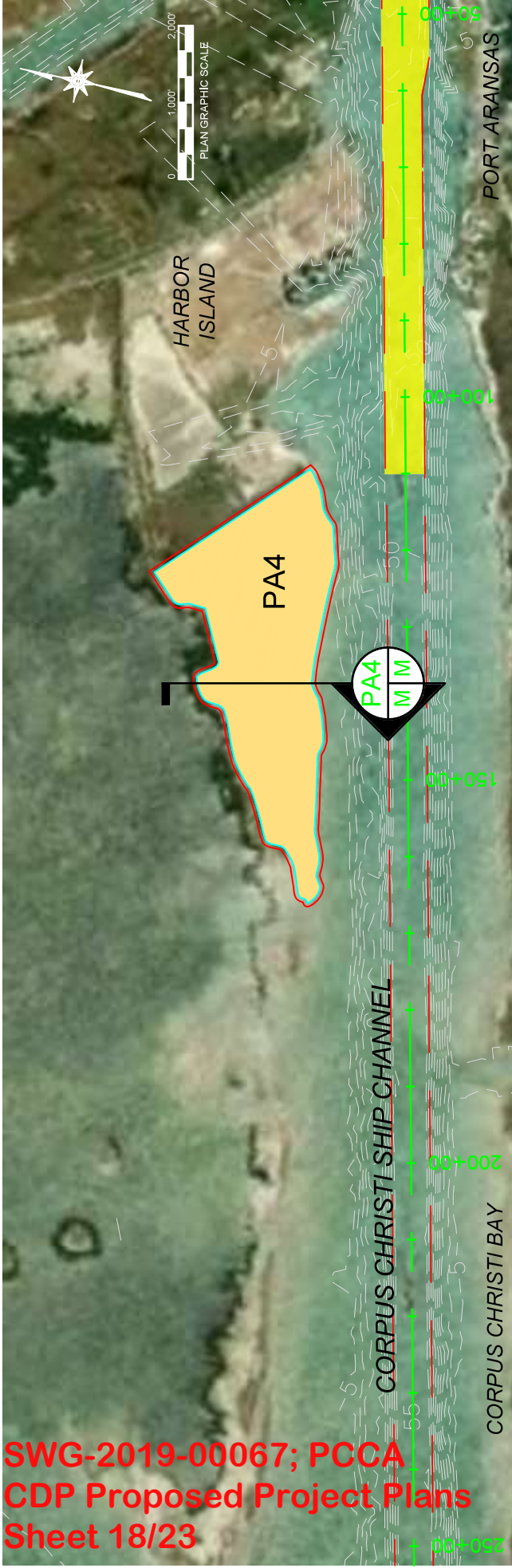
GENERAL NOTES

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LEGEND

- EXISTING / PROPOSED SHIP CHANNEL DEEPENING
- DREDGE MATERIAL PLACEMENT
- EXIST CONTOURS

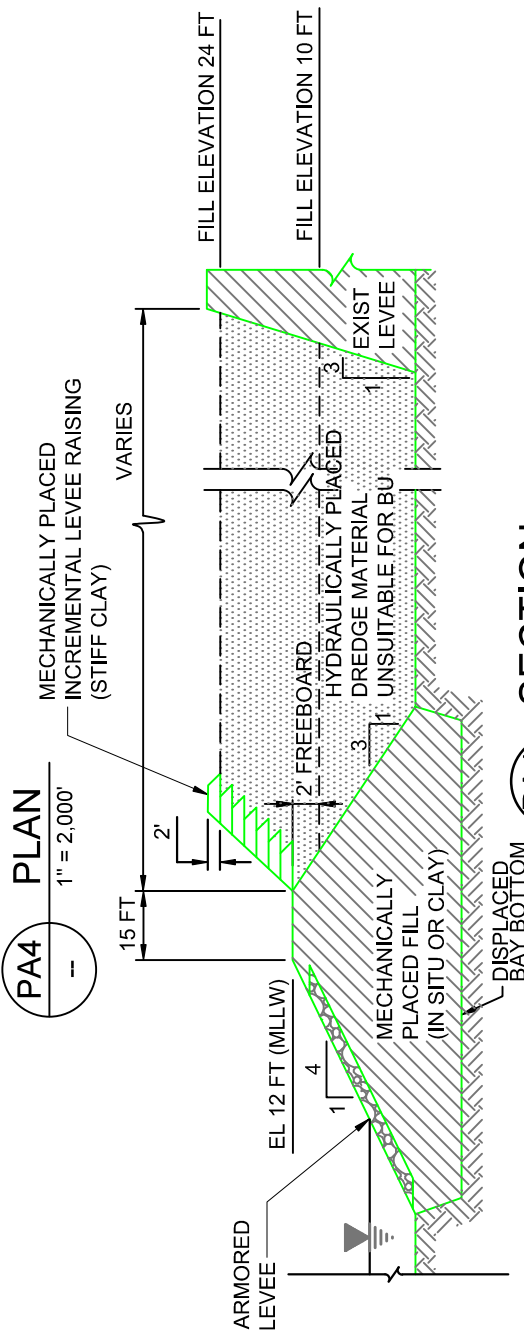
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PA4
PLAN
1" = 2,000'

Placement Site Neatline Quantity – Site PA 4	Construction Volume (CY)
Armoring*	17,100
Levee	158,600
PA Fill	2,861,400
Total	3,020,000

*Note: Quantity not included in CY total



PA4
SECTION
NOT TO SCALE

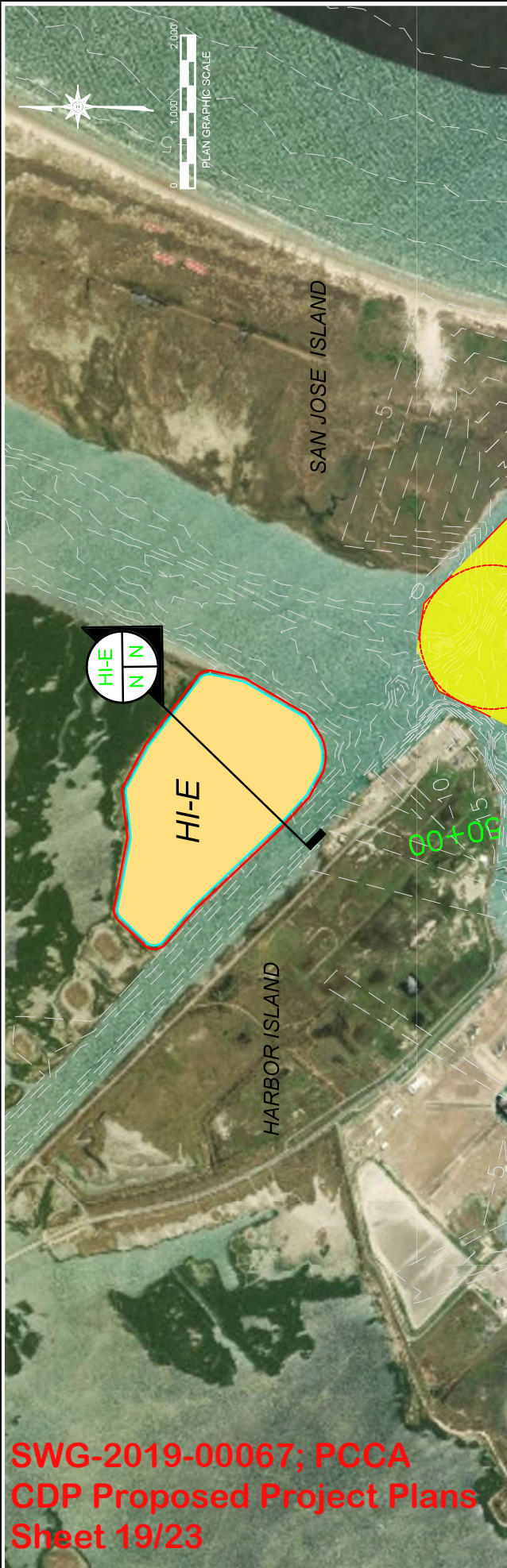
LEGEND

- EXISTING / PROPOSED SHIP CHANNEL DEEPENING
- DREDGE MATERIAL PLACEMENT
- EXIST CONTOURS

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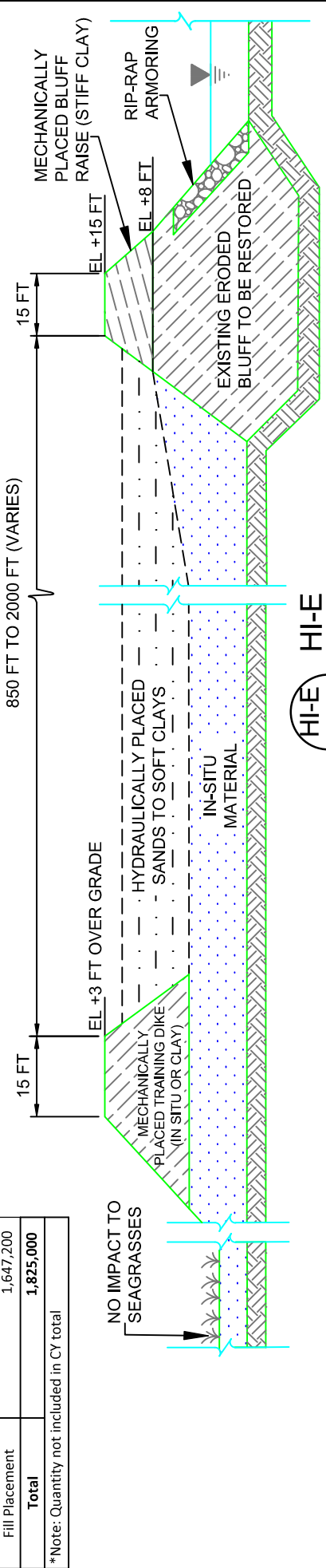
**SWG-2019-00067; PCCA
CDP Proposed Project Plans
Sheet 19/23**



HI-E PLAN
1" = 2,000'

Placement Site Neatline Quantity – Site HI-E	
Feature Description	Construction Volume (CY)
Armoring*	23,400
Levee	177,800
Fill Placement	1,647,200
Total	1,825,000

*Note: Quantity not included in CY total



Sheet 19 of 23

Corpus Christi Ship Channel Deepening Project
Individual Permit Application SWG-2019-00067
**DREDGE MATERIAL PLACEMENT
SITE AND SECTION VIEW HI-E
SITE GRADING FILL AND
SHORELINE RESTORATION**

State: Texas
Date: May 2019

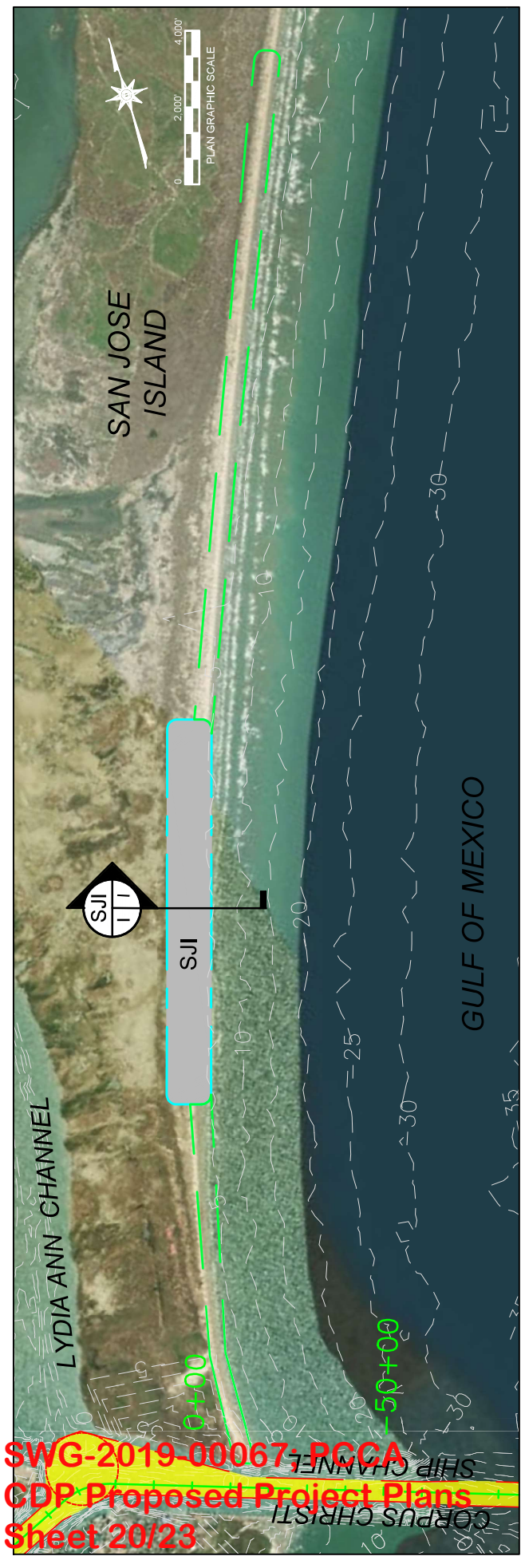
County: Aransas and Nueces
Application By: Port of Corpus Christi Authority

GENERAL NOTES

1. BASE MAPPING SHOWN IS ESRI WORLD IMAGERY, RETRIEVED FROM ARCGIS TO AUTOCAD IN MAY 2019 - LAST UPDATED IN SEPT 2018.
2. HORIZONTAL COORDINATE SYSTEM IS NAD83 TEXAS STATE PLANE, SOUTH ZONE, US FOOT.
3. VERTICAL DATUM IS REFERENCED TO MEAN NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 88).
4. PIPELINE DATA FOR ARANSAS AND NUECES COUNTIES RETRIEVED FROM RAILROAD COMMISSION OF TEXAS ON NOVEMBER 19, 2018.

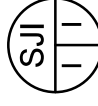
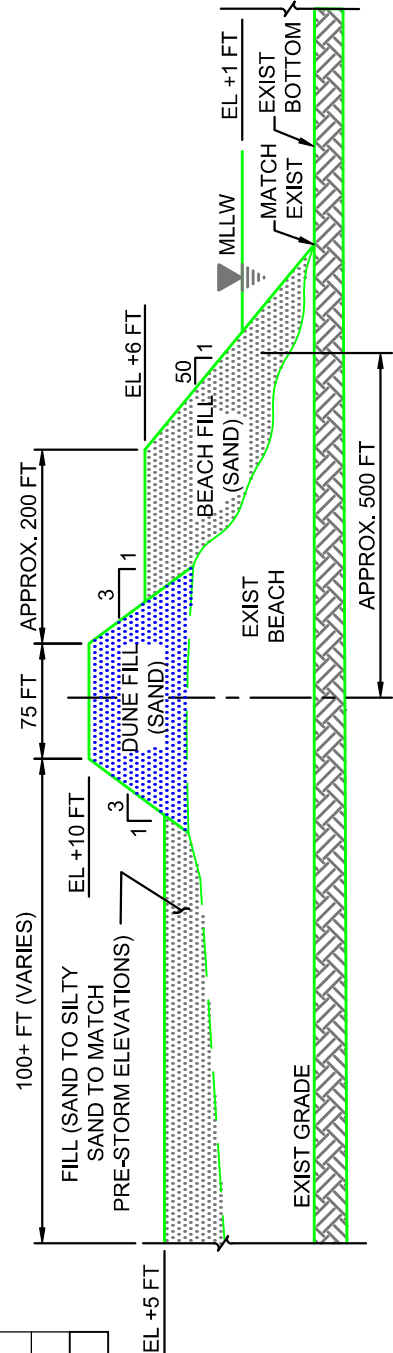
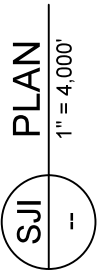
LEGEND

- PROPOSED SHIP CHANNEL DEEPENING
- DREDGE MATERIAL PLACEMENT
- EXIST CONTOURS



SWG-2019-00067, PCCA
 CDP Proposed Project Plans
 Sheet 20/23

Placement Site Neatline Quantity – San Jose Island (SJI)	
Feature Description	Construction Volume (CY)
Dune Restoration	2,000,000
Beach Restoration	2,000,000
Total	4,000,000



Sheet 20 of 23

GENERAL NOTES

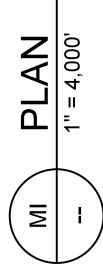
- BASE MAPPING SHOWN IS ESRI WORLD IMAGERY, RETRIEVED FROM ARCGIS TO AUTOCAD IN MAY 2019 - LAST UPDATED IN SEPT 2018.
- HORIZONTAL COORDINATE SYSTEM IS NAD83 TEXAS STATE PLANE, SOUTH ZONE, US FOOT.
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- PIPELINE DATA FOR ARKANSAS AND NUECES COUNTIES RETRIEVED FROM RAILROAD COMMISSION OF TEXAS ON NOVEMBER 19, 2018.

LEGEND

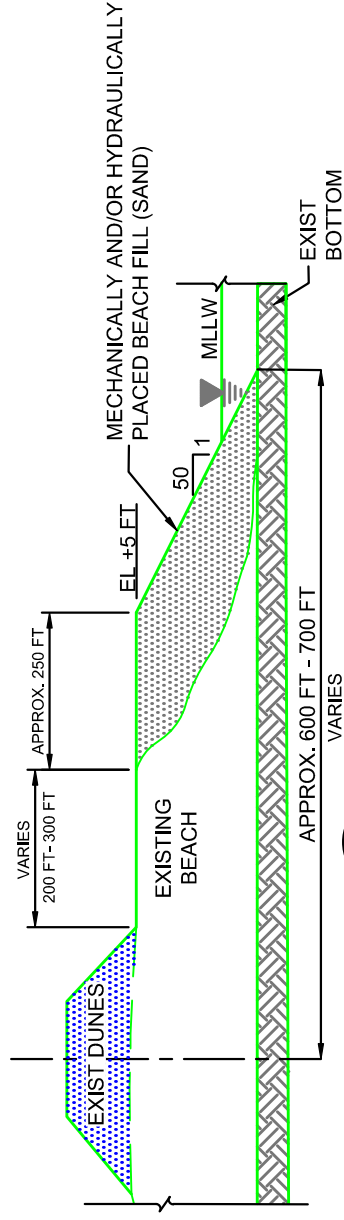
- PROPOSED SHIP CHANNEL DEEPENING
- EXIST CONTOURS
- DUNE RESTORATION
- BEACH RESTORATION

Corpus Christi Ship Channel Deepening Project
 Individual Permit Application SWG-2019-00067
BENEFICIAL USE SITE AND SECTION VIEW - SJI
DUNE AND BEACH RESTORATION
 County: Arkansas and Nueces
 Application By: Port of Corpus Christi Authority
 State: Texas
 Date: May 2019

**SWG-2019-00067; PCCA
CDI Proposed Project Plans
Sheet 21/23**



Placement Site Neatline Quantity – Mustang Island	
Feature Description	Construction Volume (CY)
Beach Nourishment	2,000,000
Total	2,000,000



Sheet 21 of 23

Corpus Christi Ship Channel Deepening Project
Individual Permit Application SWG-2019-00067
**BENEFICIAL USE SITE AND
SECTION VIEW - MI
MUSTANG ISLAND BEACH
NOURISHMENT**
County: Aransas and Nueces
Application By: Port of Corpus Christi Authority
State: Texas
Date: May 2019

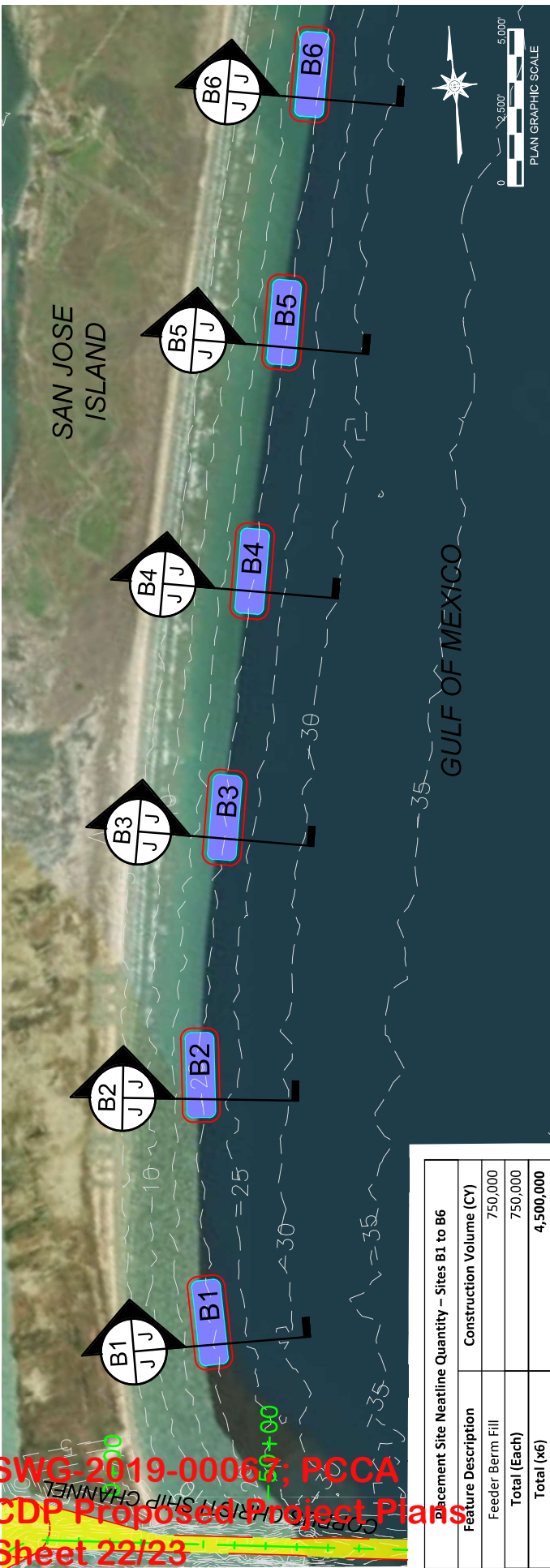
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LEGEND

- PROPOSED SHIP CHANNEL DEEPENING
- EXIST CONTOURS
- BEACH NOURISHMENT

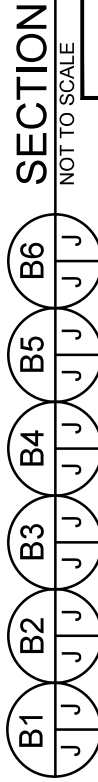
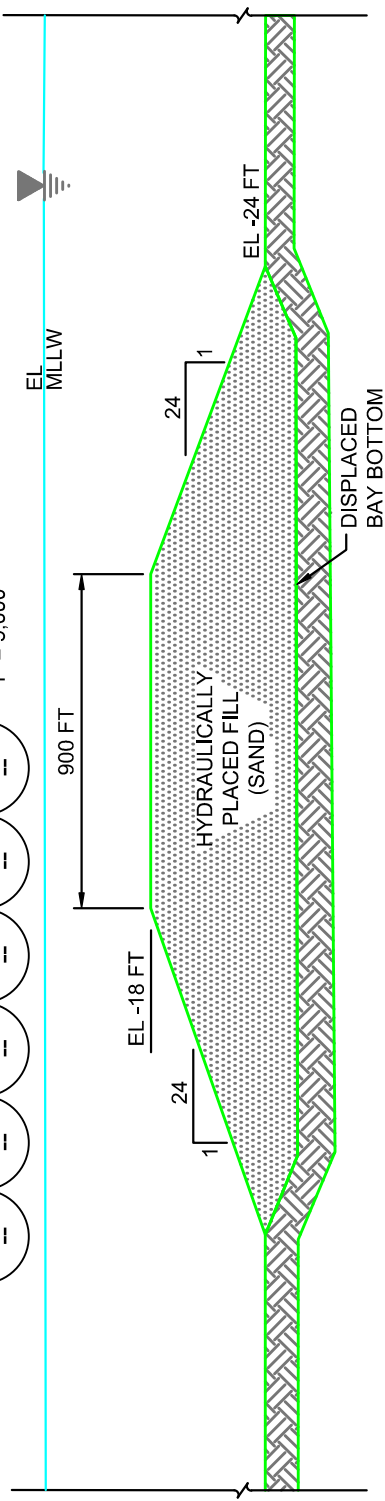
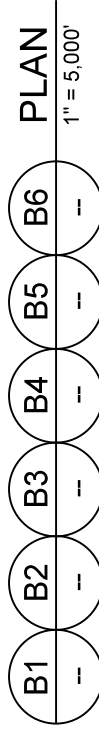
SWG-2019-00067; PCCA
 CDP Proposed Project Plans
 Sheet 22/23



Placement Site Neatline Quantity - Sites B1 to B6	
Feature Description	Construction Volume (CY)
Feeder Berm Fill	750,000
Total (Each)	750,000
Total (x6)	4,500,000

BERM CONFIGURATION AND DESIGN TO BE FINALIZED IN P.E.D.

PLACEMENT QUANTITY NOT TO EXCEED AS SHOWN ABOVE.

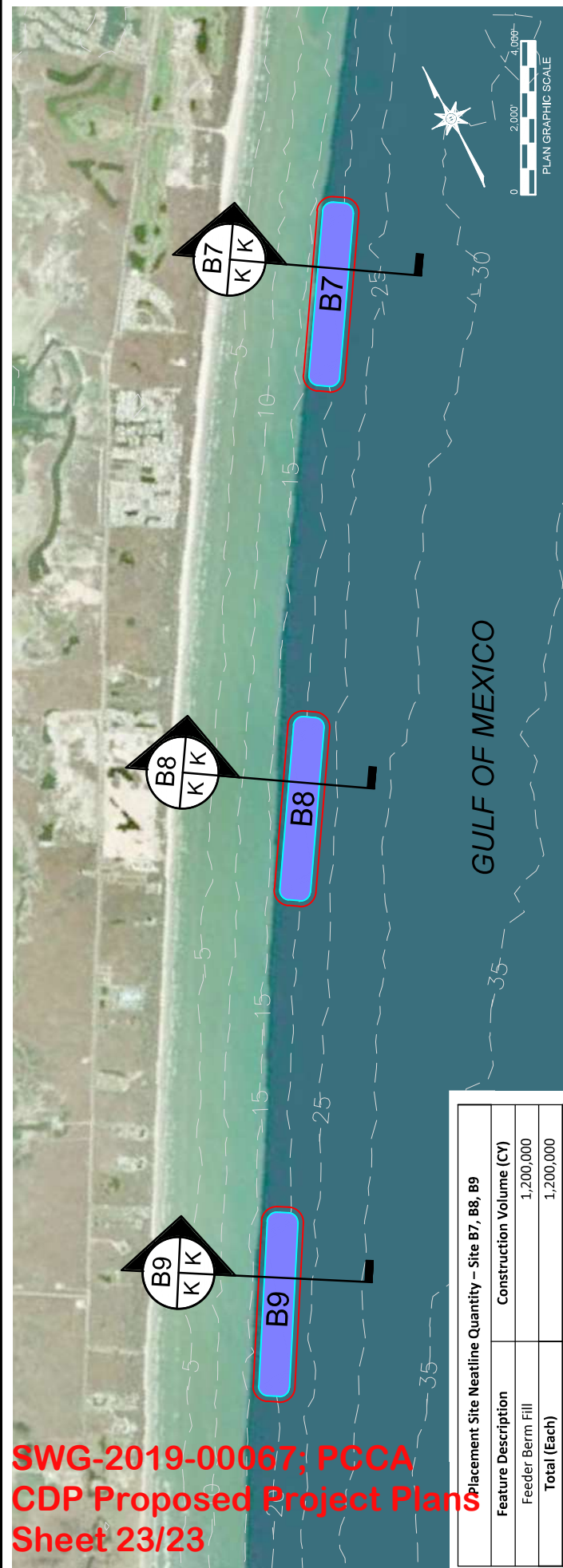


Sheet 22 of 23

Corpus Christi Ship Channel Deepening Project
 Individual Permit Application SWG-2019-00067
BENEFICIAL USE SITE AND SECTION VIEW - B1 TO B6 OFFSHORE FEEDER BERMS
 County: Aransas and Nueces
 Application By: Port of Corpus Christi Authority
 State: Texas
 Date: May 2019

- GENERAL NOTES**
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SWG-2019-00067; PCCA CDP Proposed Project Plan Sheet 23/23

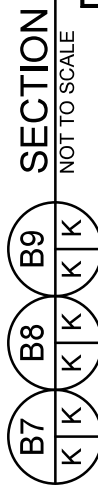
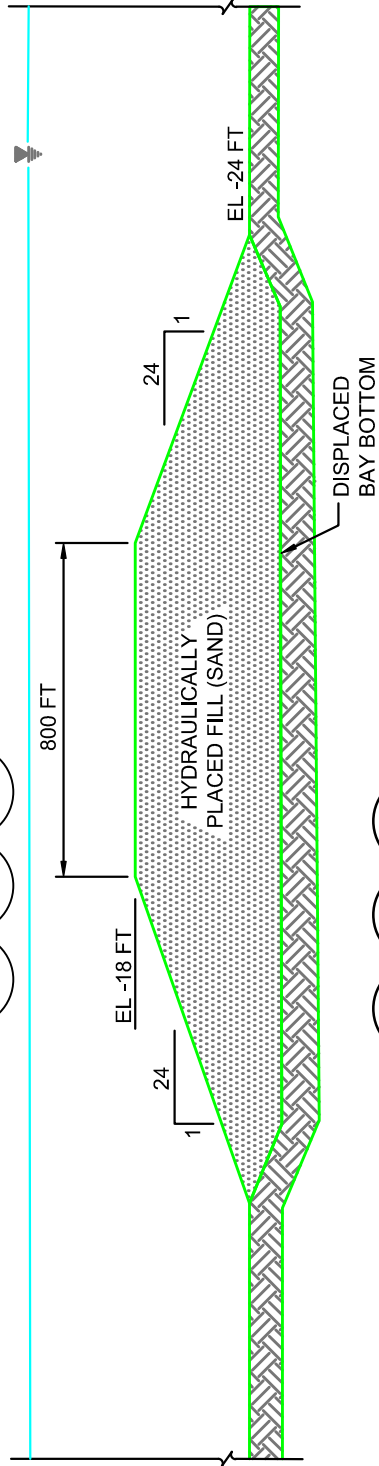
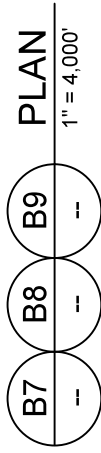


Placement Site Neatline Quantity – Site B7, B8, B9

Feature Description	Construction Volume (CY)
Feeder Berm Fill	1,200,000
Total (Each)	1,200,000
Total (x3)	3,600,000

BERM CONFIGURATION AND DESIGN TO BE FINALIZED IN P.E.D.

PLACEMENT QUANTITY NOT TO EXCEED AS SHOWN ABOVE.



LEGEND

- DREDGE MATERIAL PLACEMENT
- EXIST CONTOURS

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BENEFICIAL USE SITE AND SECTION VIEW - B7, B8 & B9 OFFSHORE FEEDER BERMS