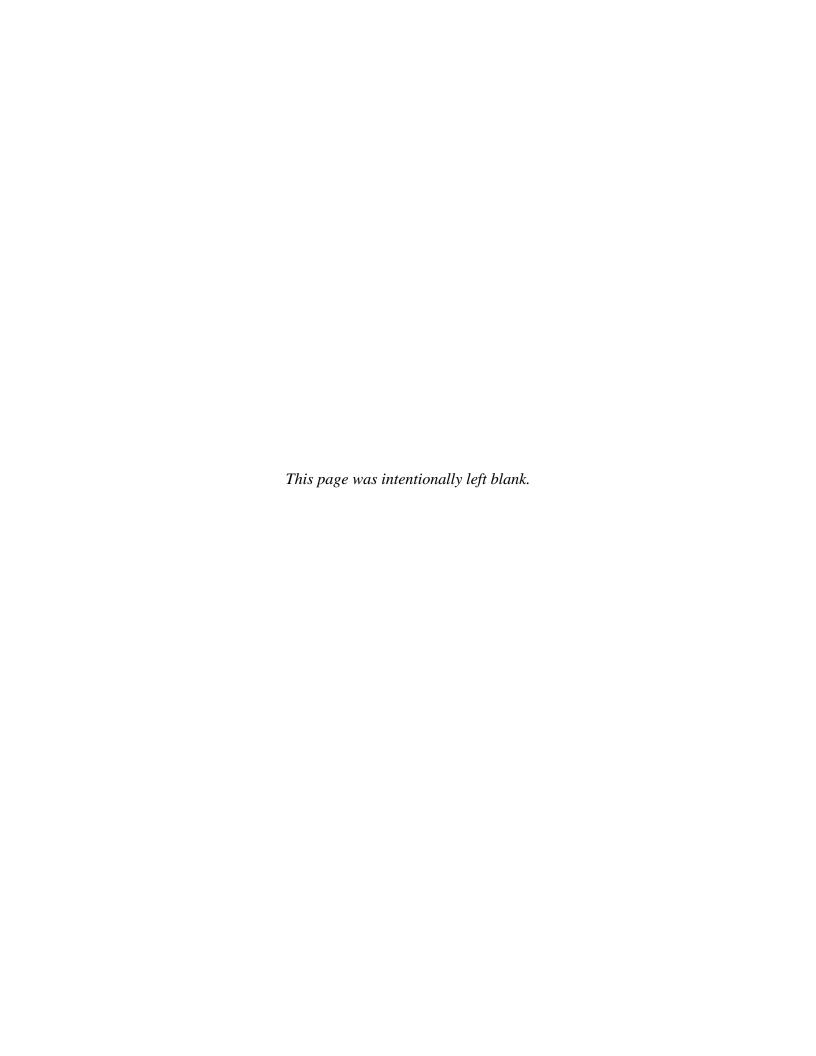
ATTACHMENT 1 DRAWINGS

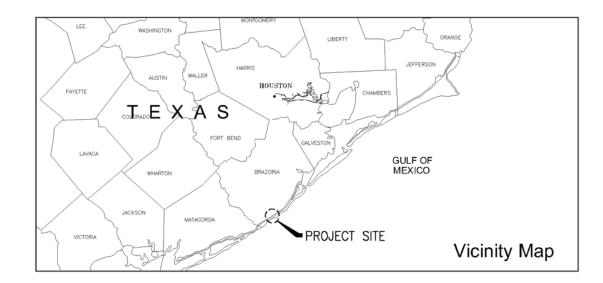
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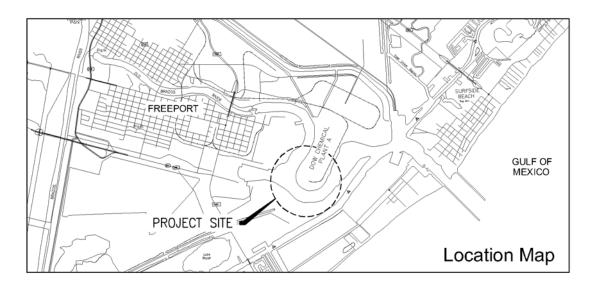












Preliminary (10% Design) Drawings For

Freeport Harbor

Channel Improvement Project - General Reevaluation Report (GRR)

HDR Project No. 10026951

Freeport Harbor, Texas January 2017

INDEX O	F DRAWINGS
Sheet Number	Sheet Title
GENERAL	
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ALTERNATIVES	
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00C-03	DREDGING CROSS SECTIONS
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00C-07	DREDGING CROSS SECTIONS
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PRELIMINARY

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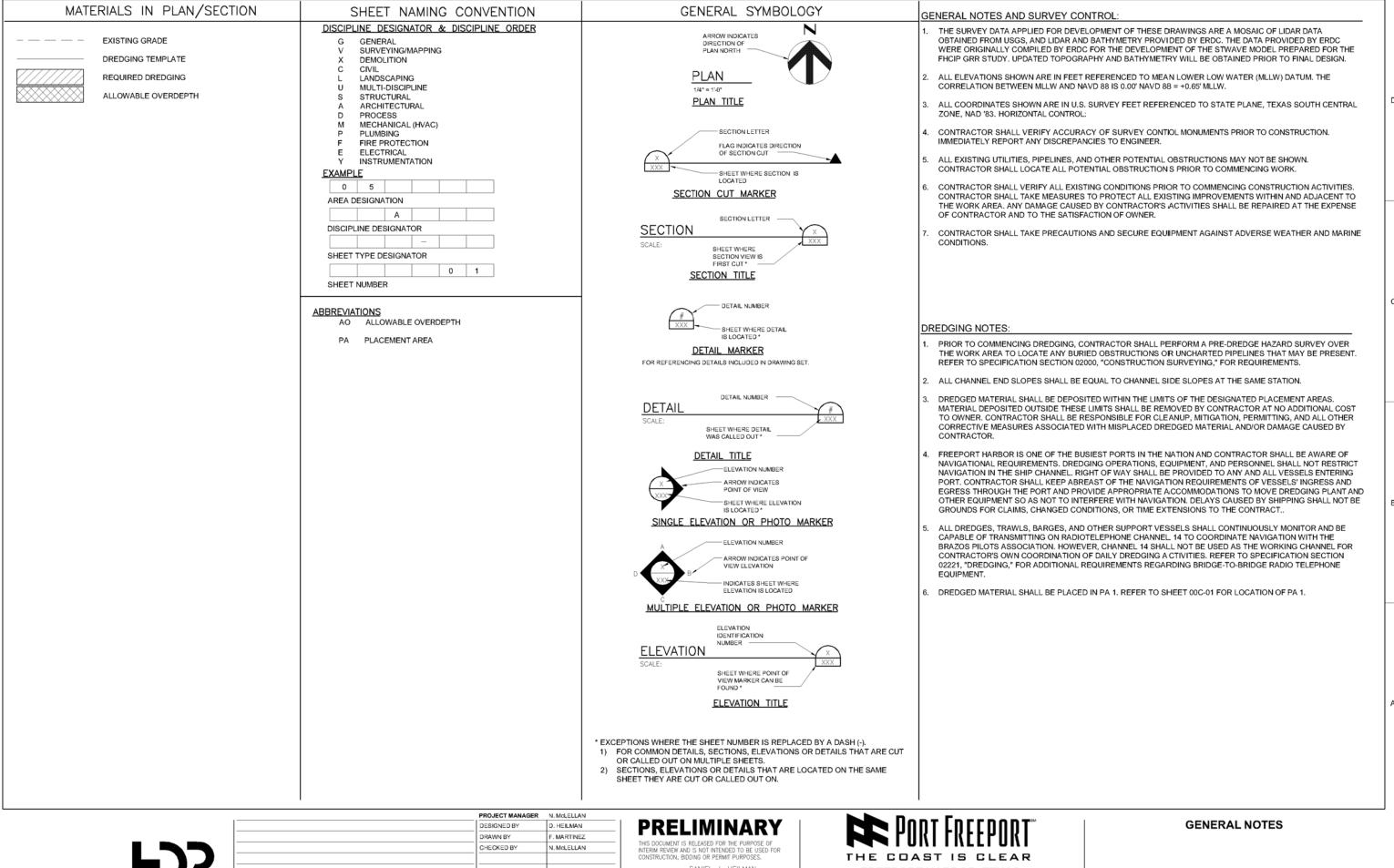
DANIEL J. HEILMAN

LICENSE NO.:

86936

DATE:

01-27-2017





			PROJECT MANAGER	N. MICLELLAN	
			DESIGNED BY	D. HEILMAN	
			DRAWN BY	F. MARTINEZ	
			CHECKED BY	N. McLELLAN	
-	11-28-2016	10% DESIGN PLANS			
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	269928	

ENGINEER: DANIEL J. HEILMAN 86936

11-28-2016

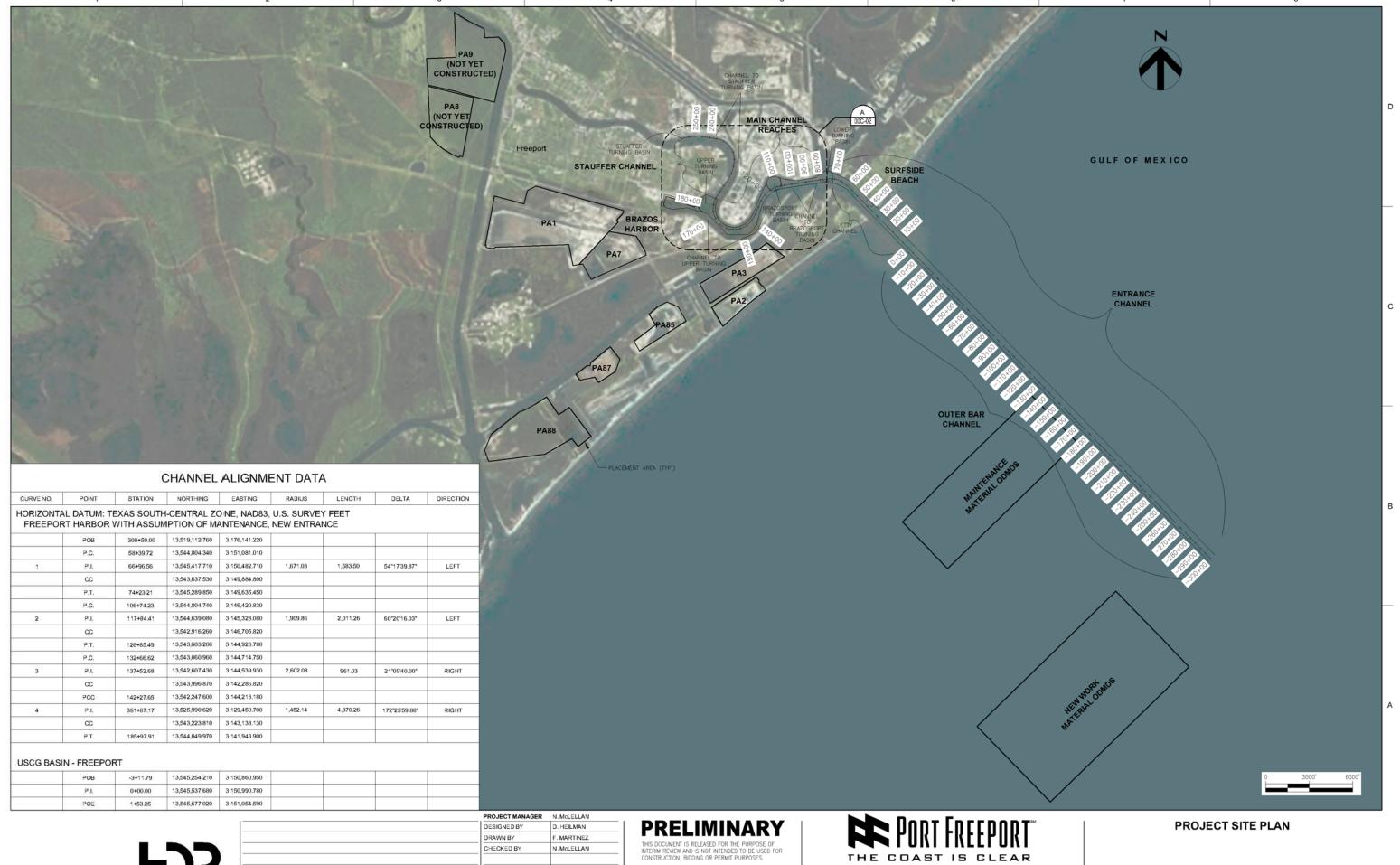
LICENSE NO .:



FILENAME 00G-02.DWG SCALE AS NOTED

00G-02

SHEET



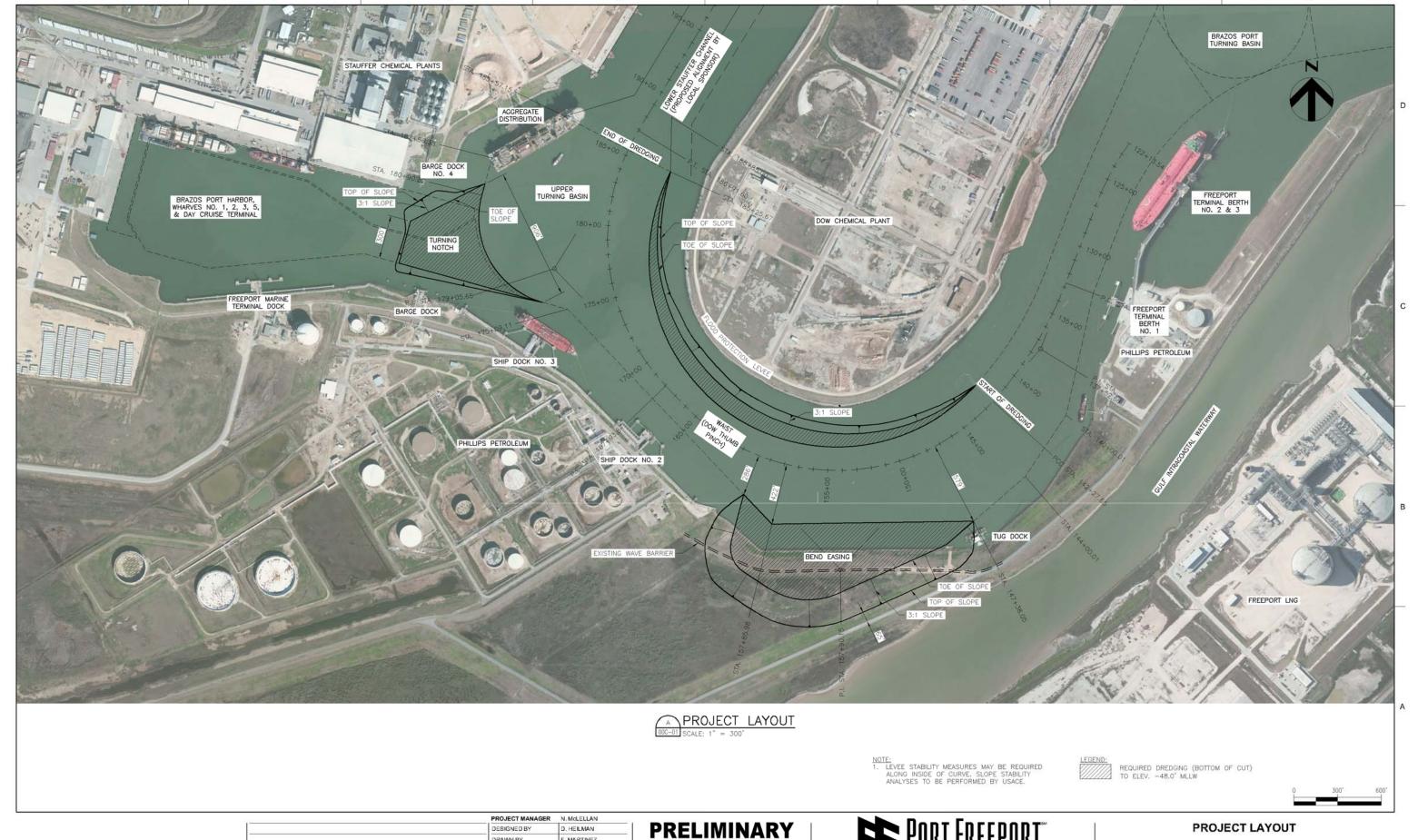
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	269928
	11-28-2016	10% DESIGN PLANS		
			One one of the other of the oth	N. MICELEAN
			CHECKED BY	N. McLELLAN
			DRAWN BY	F. MARTINEZ
			DESIGNED BY	D. HEILMAN

ENGINEER:	DANIEL J. HEILMAN
LICENSE NO.:	86936
DATE:	11-28-2016

FREEPORT HARBOR, TEXAS FREEPORT HARBOR CHANNEL IMPROVEMENT PROJECT

FILENAME 00C-01.DWG SCALE AS NOTED

00C-01





			PROJECT MANAGER	N. McLELLAN
			DESIGNED BY	D. HEILMAN
			DRAWN BY	F. MARTINEZ
			CHECKED BY	N. McLELLAN
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LICENSE NO.:	86936
DATE:	11-28-2016



FILENAME 00C-02.DWG SCALE AS NOTED

00C-02

NOTE: CROSS SECTIONS VIEWED LOOKING TOWARDS INCREASING STATIONS. -48' (REQ'D DEPTH) -49' (1' AØ) -48' (REQ'D DEPTH) 567.65' 204.00' 493.24 168.00' 661.24 -1000-800 -600 -200 200 400 600 -1000-800 -600 400 600 STA. 143+00 STA. 147+00 -48' (REQ'D DEPTH) -48' (REQ'D DEPTH) -49' (1' AO) 530.22 186.47 456.73 617.94 716.69 -1000-600 -400-200 200 400 -1000-800 -600 -200 200 STA. 141+00 STA. 145+00 LEGEND: ---- EXISTING GRADE AO ALLOWABLE OVERDEPTH REQUIRED DREDGING ALLOWABLE OVERDEPTH **PRELIMINARY** DREDGING CROSS SECTIONS



ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	269928
	11-28-2016	10% DESIGN PLANS		
			CHECKED BY	N. McLELLAN
			DRAWN BY	F. MARTINEZ
			DESIGNED BY	D. HEILMAN
			PROJECT MANAGER	N. McLELLAN

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ENGINEER:	DANIEL J. HEILMAN	_
LICENSE NO .:	86936	
DATE:	11-28-2016	_

FREEPORT HARBOR, TEXAS FREEPORT HARBOR CHANNEL IMPROVEMENT PROJECT

FILENAME 00C-03.DWG SCALE AS NOTED

NOTE: CROSS SECTIONS VIEWED LOOKING TOWARDS INCREASING STATIONS. -48' (REQ'D DEPTH) -48' (REQ'D DEPTH) 257.43' 234.44' 918.94 1138.87 -1000-800 -600 -200 200 400 600 -1200-1000 -800 -400200 600 STA. 151+00 STA. 155+00 3-48' (REQ'D DEPTH) -49' (1 AO) __48' (REQ'D DEPTH) 246.97' 763.92' 648.71 1010.89 868.75 -1000-600 -400-200 200 400 -1000 -800 -600 -400-200 200 STA. 149+00 STA. 153+00 LEGEND: ---- EXISTING GRADE AO ALLOWABLE OVERDEPTH REQUIRED DREDGING ALLOWABLE OVERDEPTH **PRELIMINARY** DREDGING CROSS SECTIONS THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.



			PROJECT MANAGER	N. McLELLAN
			DESIGNED BY	D. HEILMAN
			DRAWN BY	F. MARTINEZ
			CHECKED BY	N. McLELLAN
-	11-28-2016	10% DESIGN PLANS		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	269928

ENGINEER:	DANIEL J. HEILMAN	
LICENSE NO .:	86936	
DATE:	11-28-2016	



FILENAME 00C-04.DWG SCALE AS NOTED

00C-04

NOTE: CROSS SECTIONS VIEWED LOOKING TOWARDS INCREASING STATIONS. -48' (REQ'D DEPTH) (1' AO) -48' (REQ'D DEPTH) 758.28' 272.09' 163.04 277.81 440.85 1030.37 -1000-800 -600 -400 200 400 600 -1000-800 -600 -200 200 400 STA. 159+00 STA. 163+00 -48' (REQ'D DEPTH) -49' (1' AO) 275.96 265.79 229.88' 1141.35 505.84 -1200 -400 -200 200 -1000-600 -400 -200 200 STA. 157+00 STA. 161+00 LEGEND: ____ EXISTING GRADE DREDGING TEMPLATE AO ALLOWABLE OVERDEPTH REQUIRED DREDGING ALLOWABLE OVERDEPTH PROJECT MANAGER N. McLELLAN **PRELIMINARY** DREDGING CROSS SECTIONS

ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	269928
	11-28-2016	10% DESIGN PLANS		
			CHECKED BY	N. WICLELLAN
			CHECKED BY	N. McLELLAN
			DRAWN BY	F. MARTINEZ
			DESIGNED BY	D. HEILMAN

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ENGINEER:	DANIEL J. HEILMAN	_
LICENSE NO .:	86936	
DATE:	11-28-2016	_

FREEPORT HARBOR, TEXAS FREEPORT HARBOR CHANNEL IMPROVEMENT PROJECT

FILENAME 00C-05.DWG SCALE AS NOTED

NOTE: CROSS SECTIONS VIEWED LOOKING TOWARDS INCREASING STATIONS. -48' (REQ'D DEPTH) -48' (REQ'D DEPTH) 125.16' 274.84' 292.65 400.00' 422.02 -800 -400 400 600 -800 -600 400 -1000 -600 -200 200 -1000 -400 -200 200 STA. 166+15 STA. 169+00 -48' (REQ'D DEPTH) -49' (1' AO) 276.01 276.83 406.96 401.17' -1000 -800 -600 400 -1000 -800 -600 400 -400-200 -400 -200 STA. 165+00 STA. 167+00 LEGEND: ---- EXISTING GRADE - DREDGING TEMPLATE ALLOWABLE OVERDEPTH REQUIRED DREDGING ALLOWABLE OVERDEPTH PROJECT MANAGER N. McLELLAN **PRELIMINARY** DREDGING CROSS SECTIONS THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES.

SSUE	DATE	DESCRIPTION	PROJECT NUMBER	209920
SSUE	DATE	DESCRIPTION	PROJECT NUMBER	269928
	11-28-2016	10% DESIGN PLANS		
			- CHECKED BY	IV. MICELLEAN
			CHECKED BY	N. McLELLAN
			DRAWN BY	F. MARTINEZ
			DESIGNED BY	D. HEILMAN

ENGINEER:	DANIEL J. HEILMAN	_
LICENSE NO .:	86936	
DATE:	11-28-2016	_



FILENAME 00C-06.DWG SCALE AS NOTED

NOTE: CROSS SECTIONS VIEWED LOOKING TOWARDS INCREASING STATIONS. 1-48' (REQ'D DEPTH) -49' (1' AO) 3 -48' (REQ'D DEPTH) -49' (1' AO) 226.00' 321.29 874.28 337.06 1211.34 -1000-800 -600 -200 400 600 -1000-800 -600 -400 -200 400 600 STA. 173+00 STA. 177+00 3 48' (REQ'D DEPTH) 49' (1' AO) __48' (REQ'D DEPTH) __49' (1' AO) 330.87 308.58 331.87 662.74 469.41 -1000-800 -600 -200 -1000-600 -400-200 STA. 171+00 STA. 175+00 LEGEND: ————— EXISTING GRADE DREDGING TEMPLATE AO ALLOWABLE OVERDEPTH REQUIRED DREDGING ALLOWABLE OVERDEPTH PROJECT MANAGER N. McLELLAN **PRELIMINARY** DREDGING CROSS SECTIONS



				1411110444441114
			DESIGNED BY	D. HEILMAN
			DRAWN BY	F. MARTINEZ
			CHECKED BY	N. McLELLAN
	11-28-2016	10% DESIGN PLANS		
ISSUE	DATE	DESCRIPTION	PROJECT NUMBER	269928

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ENGINEER:	DANIEL J. HEILMAN
LICENSE NO.:	86936
DATE:	11-28-2016



FILENAME 00C-07.DWG SCALE AS NOTED

NOTE: CROSS SECTIONS VIEWED LOOKING TOWARDS INCREASING STATIONS. 48' (REQ'D DEPTH) 48' (REQ'D DEPTH) 546.33' 330.20 876.51 970.88 340.45 1311.33 -1000-800 -600 -400 -200 200 400 600 -1000 -800 -600 -200 200 400 STA. 181+00 STA. 185+00 -48' (REQ'D DEPTH) -49' (1' AO) 1-48' (REQ'D DEPTH) -49' (1' AO) 1391.75' 340.38 1732.13' 336.48 -1200 -1000 -600 -400 200 -1000-600-400-200 200 400 STA. 179+00 STA. 183+00 LEGEND: ---- EXISTING GRADE AO ALLOWABLE OVERDEPTH REQUIRED DREDGING ALLOWABLE OVERDEPTH PROJECT MANAGER N. McLELLAN **PRELIMINARY** DREDGING CROSS SECTIONS THIS DOCUMENT IS RELEASED FOR THE PURPOSE OF INTERIM REVIEW AND IS NOT INTENDED TO BE USED FOR CONSTRUCTION, BIDDING OR PERMIT PURPOSES. THE COAST IS CLEAR



SSUE	DATE	DESCRIPTION	PROJECT NUMBER	209920
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	11-28-2016	10% DESIGN PLANS		
			- CHECKED BY	IV. MICELLEAN
			CHECKED BY	N. McLELLAN
			DRAWN BY	F. MARTINEZ
			DESIGNED BY	D. HEILMAN

ENGINEER:	DANIEL J. HEILMAN	_
LICENSE NO .:	86936	
DATE:	11-28-2016	

FREEPORT HARBOR, TEXAS FREEPORT HARBOR CHANNEL IMPROVEMENT PROJECT

FILENAME 00C-08.DWG SCALE AS NOTED