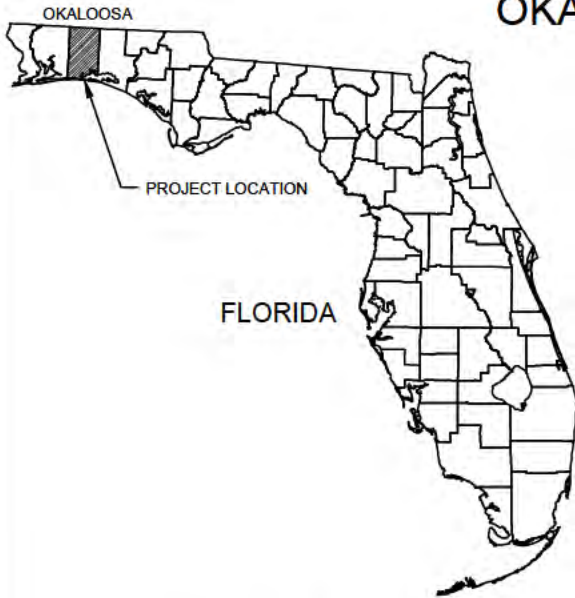
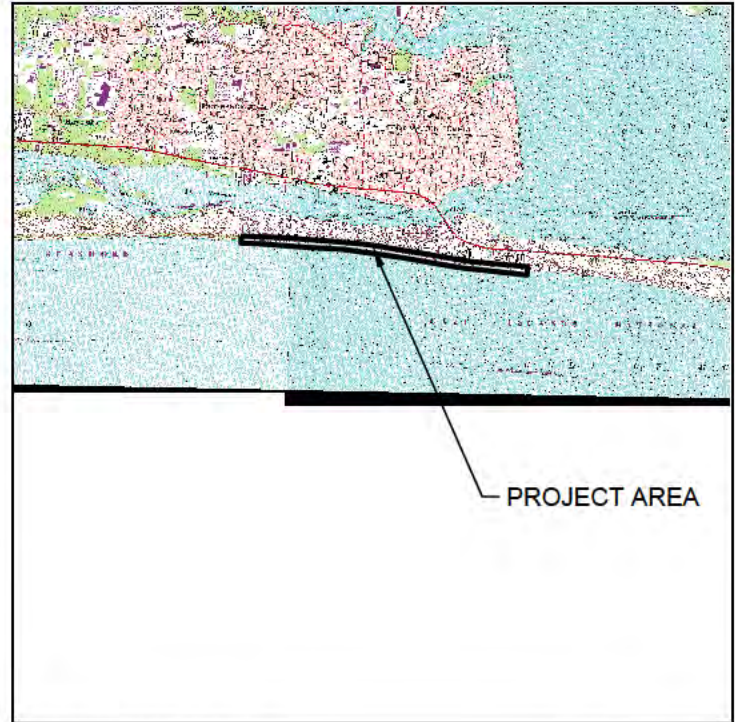


OKALOOSA ISLAND BEACH RESTORATION PROJECT

OKALOOSA COUNTY, FLORIDA



LOCATION MAP
N.T.S.



VICINITY MAP
1"= 10,000'

REFERENCE:
USGS 7.5' QUADRANGLE MAPS
WAVARRE, WINDY ESTER, AND
FT. WALTON BEACH, FLORIDA

DRAWING INDEX

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- C-4 VIBRACORE LOCATIONS
- C-5 BORROW AREA THICKNESS CONTOURS
- C-6 BORROW AREA SECTIONS
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- C-14 BEACH PLAN
- C-15 BEACH PLAN
- C-16 BEACH SECTIONS
- C-17 BEACH SECTIONS
- C-18 BEACH SECTIONS
- C-19 DETAILS

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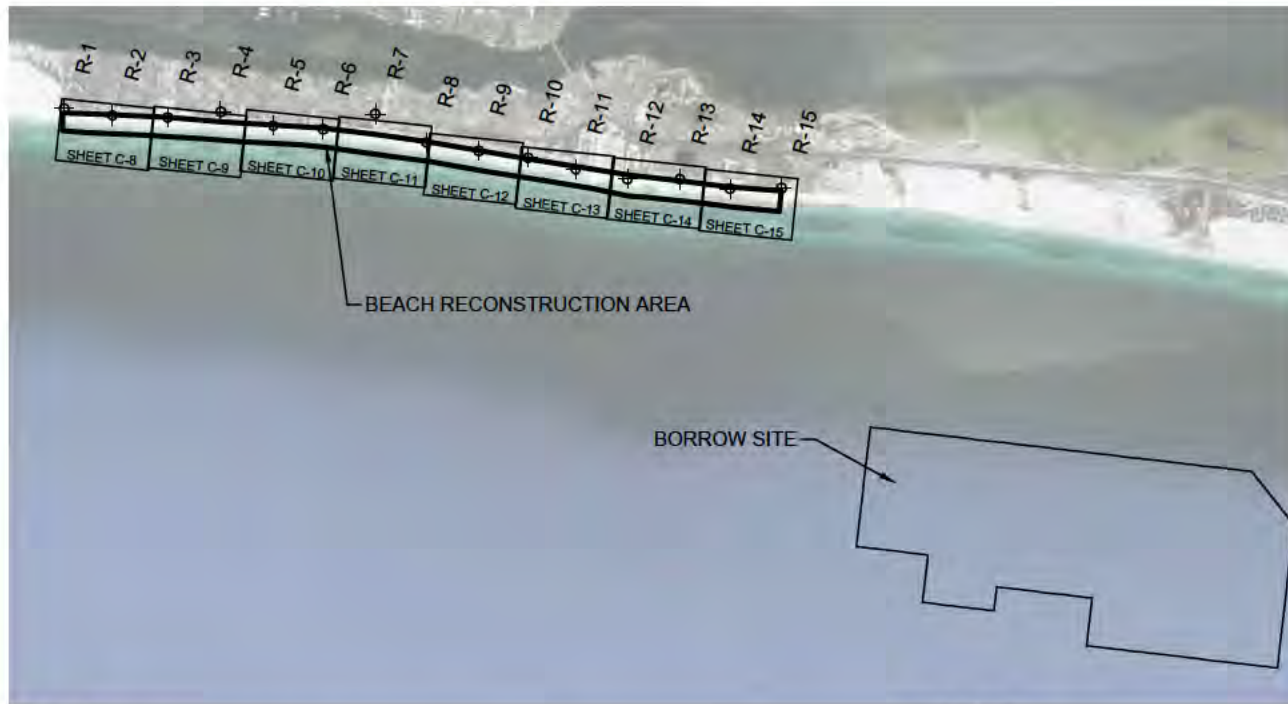
FIGURE G-1
TITLE
OKALOOSA ISLAND BEACH RESTORATION PROJECT
OKALOOSA COUNTY, FLORIDA

PROJECT	C2007-087
DRAWN BY	AF
SHEET	1 of 21
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SEAL

MICHAEL E. TRUDNAK FL. PE# 58200

DATE



POINT TABLE			
POINT	EASTING	NORTHING	DESCRIPTION
42	1296013.00	514516.00	R-1
50	1304653.00	513638.00	R-9
43	1297021.00	514373.00	R-2
44	1298172.00	514333.00	R-3
45	1299280.00	514448.00	R-4
46	1300368.00	514160.00	R-5
47	1301411.00	514084.00	R-6
48	1302404.00	514401.00	R-7
49	1303561.00	513812.00	R-8
51	1305677.00	513492.00	R-10
52	1306670.00	513253.00	R-11
53	1307745.00	513052.00	R-12
54	1308835.00	513044.00	R-13
55	1309882.00	512845.00	R-14
56	1310956.00	512860.00	R-15

GENERAL NOTES:

- ALL ELEVATIONS REFERENCE THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD 88).
- ALL COORDINATES REFERENCE STATE PLANE FLORIDA NORTH NAD 83.
- BORROW AREA BATHYMETRY SURVEYED IN OCTOBER 2007 BY MORGAN & EKLUND, INC..
- EXISTING BEACH GRADE SURVEYED JUNE 2007 BY FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.
- CONSTRUCTION TEMPLATE DESIGNED WITH THE FOLLOWING FEATURES:
 - (1) A DUNE WITH A 40-FT WIDE DUNE CREST EXTENDING FROM THE EXISTING 14 FT NAVD CONTOUR AND A 1V:4H SLOPING DUNE FACE EXTENDING FROM THE SEAWARD EDGE OF THE DUNE CREST TO THE BACK BERM. IN AREAS WHERE THE LANDWARD EDGE OF THE DUNE CREST DOESN'T TIE INTO THE EXISTING DUNE, THE LANDWARD DUNE FACE WILL SLOPE 1V:4H DOWN TO THE EXISTING TOPOGRAPHY
 - (2) A 60-FT WIDE BACK-BERM AT 8.5 FT NAVD
 - (3) A 30-FT WIDE TRANSITIONAL SLOPE (1V:10H) FROM THE BACK-BERM TO THE BERM
 - (4) A 140-FT WIDE FLAT BERM AT AN ELEVATION OF 5.5 FT NAVD
 - (5) A 1V:10H FORESHORE SLOPE EXTENDING FROM THE SEAWARD EDGE OF THE BERM DOWN TO THE EXISTING SEAFLOOR.
 - (6) THE DUNE, BACK BERM, AND BERM WIDTHS MAY VARY FROM THE MAXIMUM WIDTHS SPECIFIED ABOVE IF THE LOCATIONS OF STRUCTURES PROHIBIT CONSTRUCTION OF THE FULL TEMPLATE.
- IF STRUCTURES PROHIBIT TYING THE DUNE INTO THE EXISTING GRADE, THE DUNE TEMPLATE SHALL BE MODIFIED AS REQUIRED AS PER THE ENGINEER. THE ENGINEER MAY ALTER PLANS BASED ON FIELD OBSERVATIONS.
- BEACH RESTORATION BEGINS AT V-553.8 (31' WEST OF MONUMENT R-1) AND CONCLUDES AT MONUMENT R-15.



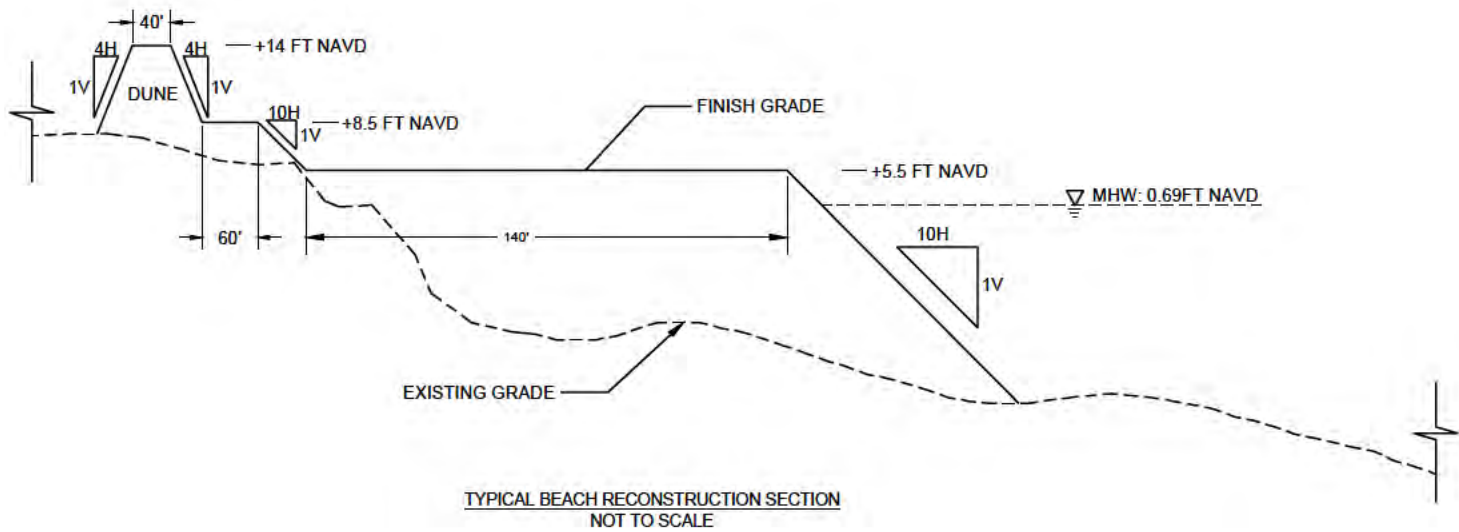
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FIGURE C-1
 PLAN OVERVIEW
 OKALOOSA ISLAND BEACH RESTORATION PROJECT
 OKALOOSA COUNTY, FLORIDA

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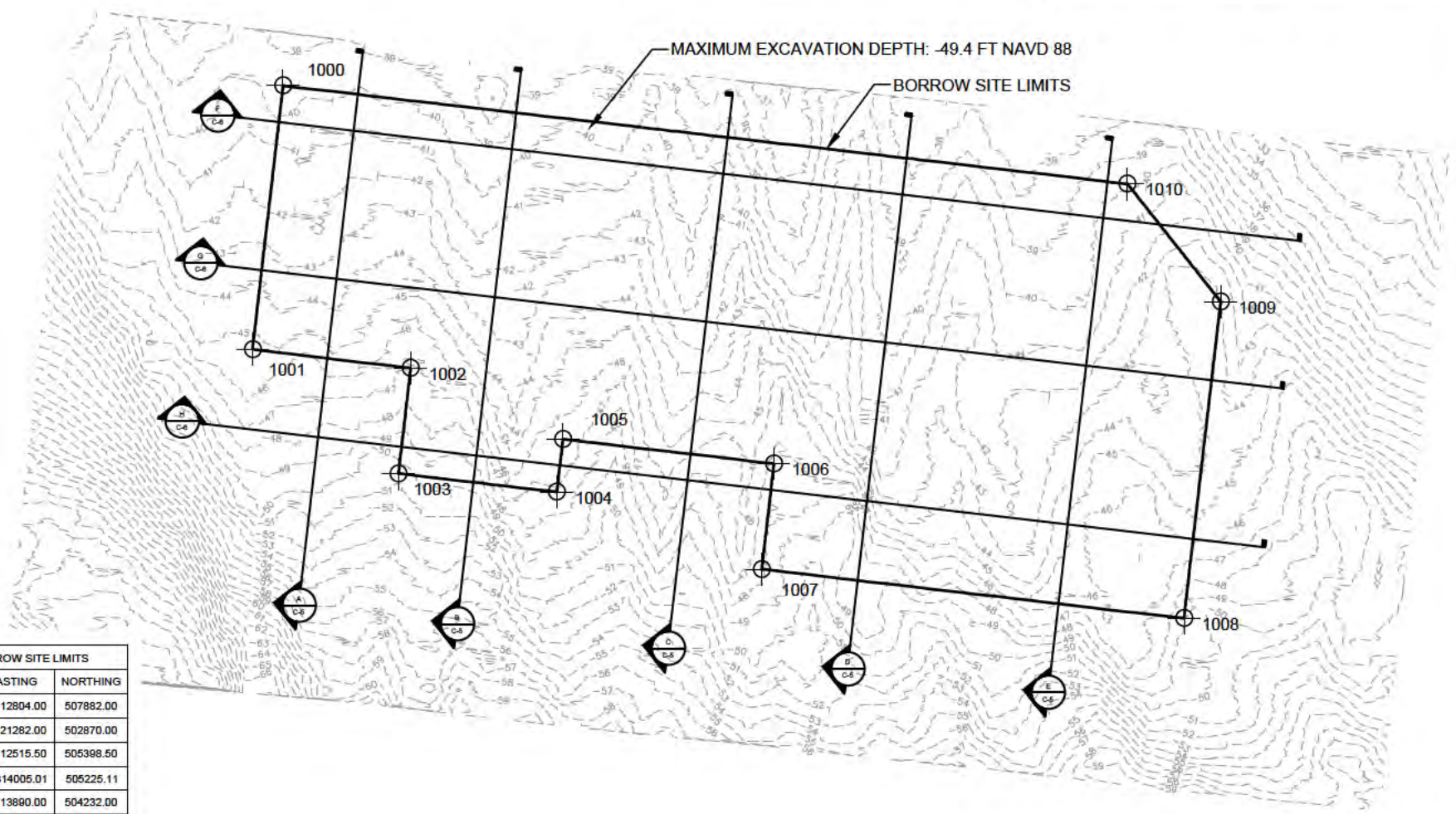
FIGURE C-2
 SECTION OVERVIEW
 OKALOOSA ISLAND BEACH RESTORATION PROJECT
 OKALOOSA COUNTY, FLORIDA

PROJECT	C2007-087
DRAWN BY	AF
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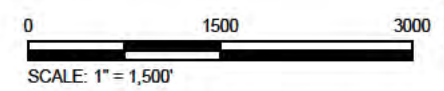
SEAL
 MICHAEL E. TRUDNAK FL. PE# 58200
 DATE

GENERAL SHEET NOTES

1. CONTOUR ELEVATIONS N FEET NAVD 1988



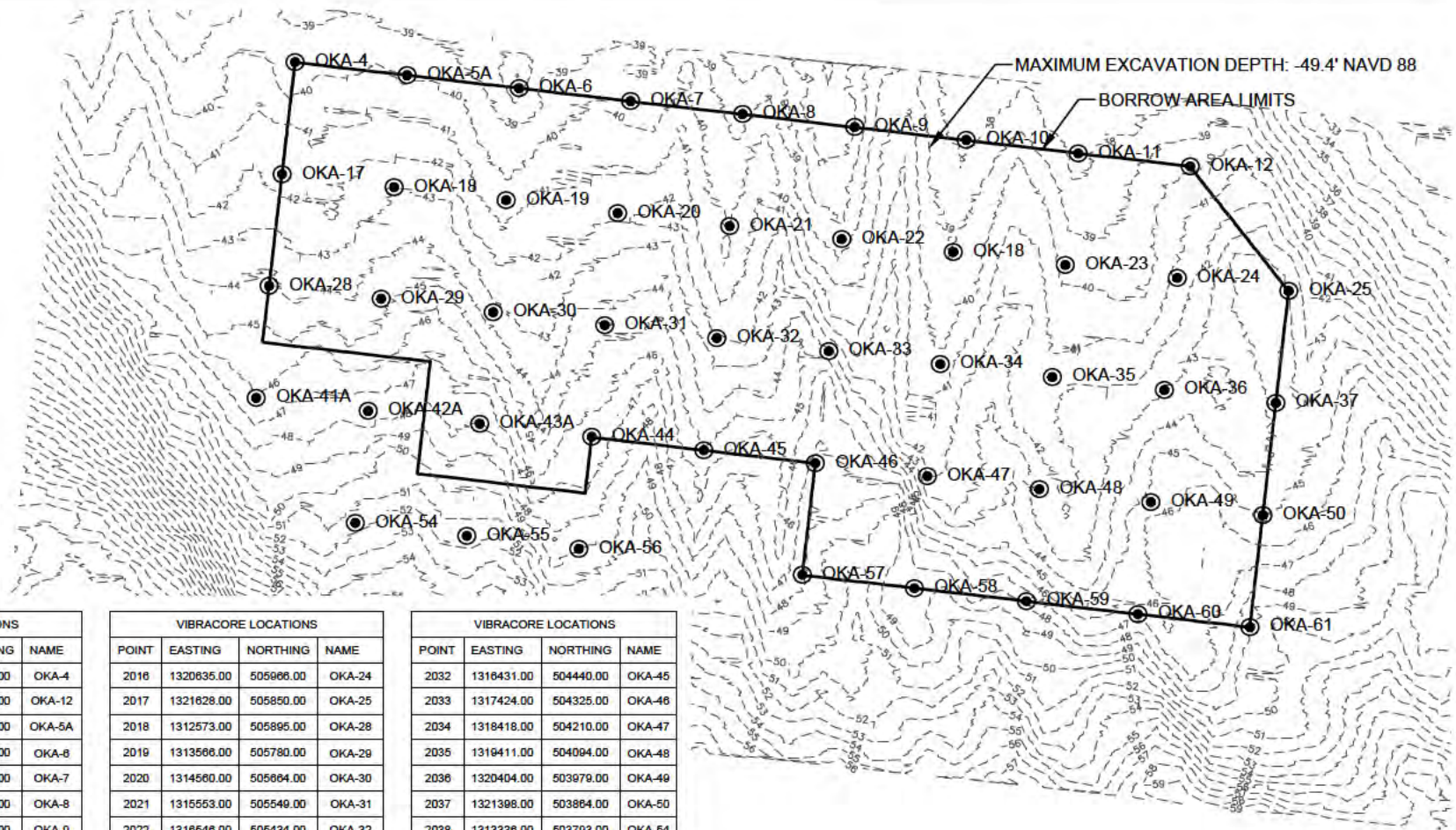
BORROW SITE LIMITS		
POINT	EASTING	NORTHING
1000	1312804.00	507882.00
1008	1321282.00	502870.00
1001	1312515.50	505398.50
1002	1314005.01	505225.11
1003	1313890.00	504232.00
1004	1315380.00	504058.00
1005	1315438.00	504558.00
1006	1317424.00	504325.00
1007	1317309.00	503332.00
1009	1321028.00	505850.00
1010	1320750.00	508959.00



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FIGURE C-3
 BORROW AREA PLAN
 OKALOOSA ISLAND BEACH RESTORATION PROJECT
 OKALOOSA COUNTY, FLORIDA

PROJECT	C2007-087	SEAL
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DATE	SEPT 2016	
		MICHAEL E. TRUDNAK FL. PE# 58200
		DATE



VIBRACORE LOCATIONS			
POINT	EASTING	NORTHING	NAME
2000	1312804.00	507882.00	OKA-4
2008	1320750.00	506959.00	OKA-12
2001	1313797.00	507786.00	OKA-5A
2002	1314790.00	507651.00	OKA-8
2003	1315784.00	507536.00	OKA-7
2004	1316777.00	507420.00	OKA-8
2005	1317770.00	507305.00	OKA-9
2006	1318764.00	507190.00	OKA-10
2007	1319757.00	507074.00	OKA-11
2009	1312888.00	508888.00	OKA-17
2010	1313682.00	508773.00	OKA-18
2011	1314675.00	508658.00	OKA-19
2012	1315668.00	508542.00	OKA-20
2013	1316662.00	508427.00	OKA-21
2014	1317655.00	508312.00	OKA-22
2015	1318642.00	508197.00	OKA-23

VIBRACORE LOCATIONS			
POINT	EASTING	NORTHING	NAME
2016	1320635.00	505966.00	OKA-24
2017	1321628.00	505850.00	OKA-25
2018	1312573.00	505895.00	OKA-28
2019	1313566.00	505780.00	OKA-29
2020	1314560.00	505664.00	OKA-30
2021	1315553.00	505549.00	OKA-31
2022	1316546.00	505434.00	OKA-32
2023	1317540.00	505318.00	OKA-33
2024	1318533.00	505203.00	OKA-34
2025	1319526.00	505088.00	OKA-35
2026	1320520.00	504972.00	OKA-36
2027	1321513.00	504857.00	OKA-37
2028	1312458.00	504902.00	OKA-41A
2029	1313451.00	504786.00	OKA-42A
2030	1314444.00	504671.00	OKA-43A
2031	1315438.00	504556.00	OKA-44

VIBRACORE LOCATIONS			
POINT	EASTING	NORTHING	NAME
2032	1316431.00	504440.00	OKA-45
2033	1317424.00	504325.00	OKA-46
2034	1318418.00	504210.00	OKA-47
2035	1319411.00	504094.00	OKA-48
2036	1320404.00	503979.00	OKA-49
2037	1321398.00	503864.00	OKA-50
2038	1313336.00	503793.00	OKA-54
2039	1314329.00	503678.00	OKA-55
2040	1315322.00	503562.00	OKA-56
2041	1317309.00	503332.00	OKA-57
2042	1318302.00	503216.00	OKA-58
2043	1319296.00	503101.00	OKA-59
2044	1320289.00	502986.00	OKA-60
2045	1321282.00	502870.00	OKA-61
2046	1318648.43	506196.30	OK-18



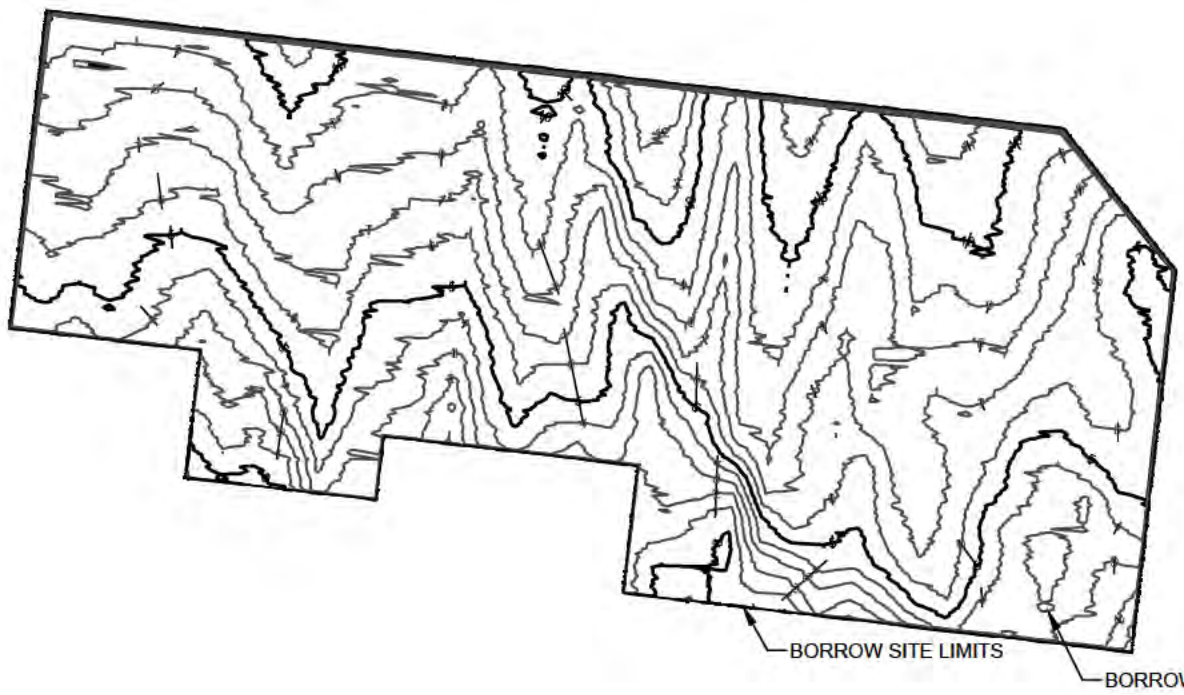

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FIGURE C-4
 VIBRACORE LOCATIONS
 OKALOOSA ISLAND BEACH RESTORATION PROJECT
 OKALOOSA COUNTY, FLORIDA

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		MICHAEL E. TRUDNAK FL. PE# 58200
		DATE

GENERAL SHEET NOTES

1. MAXIMUM EXCAVATION DEPTH: -48.4' NAVD 88
2. CONTOURS REPRESENT THICKNESS OF SAND ABOVE THE MAXIMUM EXCAVATION DEPTH.



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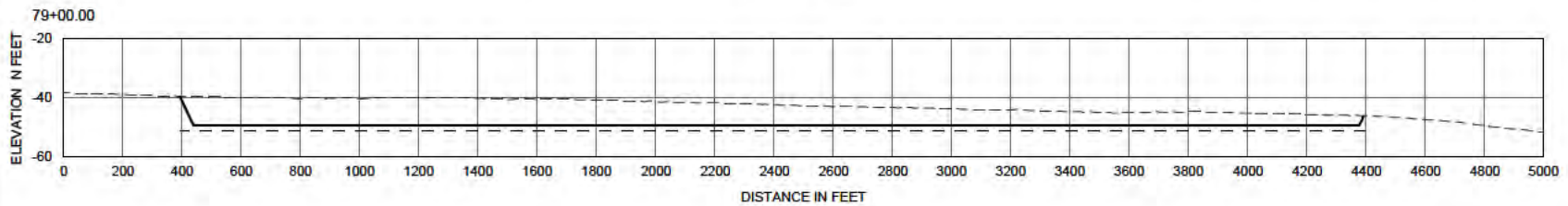
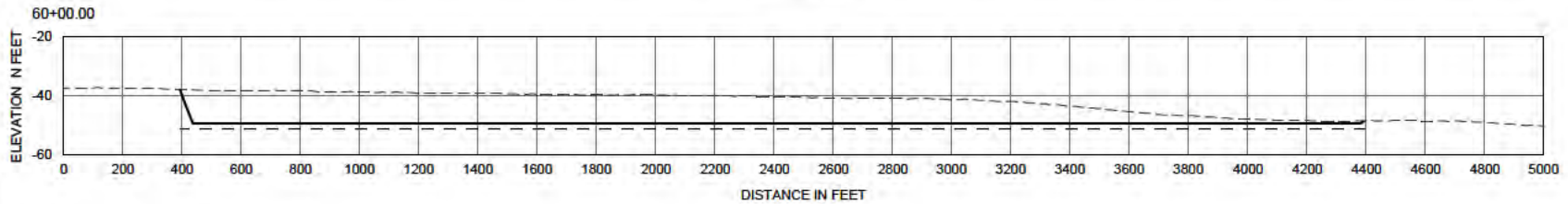
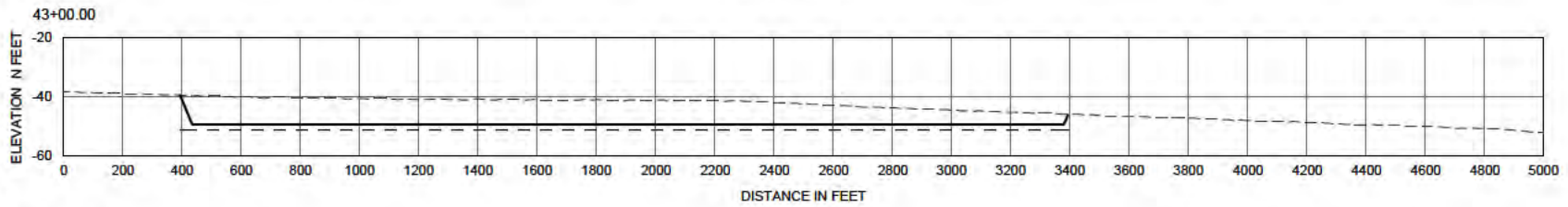
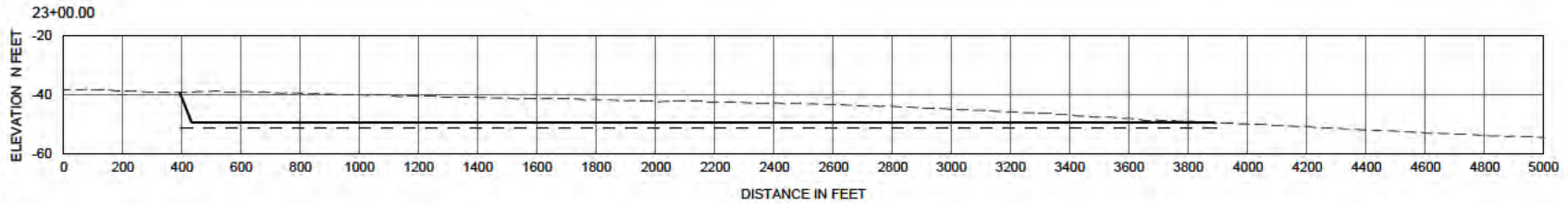
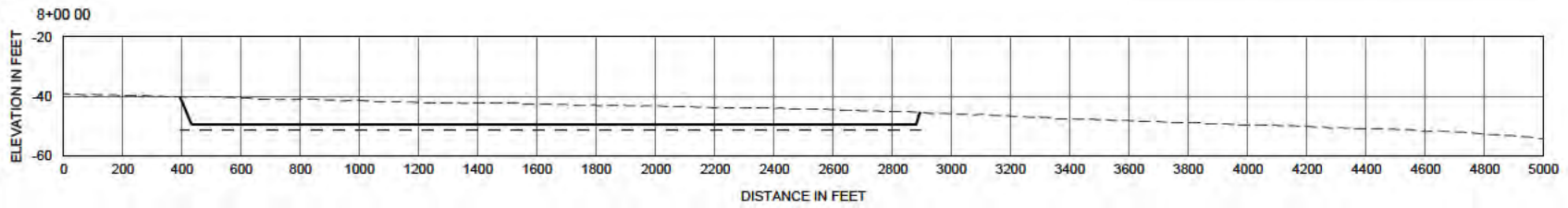
FIGURE C-5
 BORROW AREA THICKNESS CONTOURS
 OKALOOSA ISLAND BEACH RESTORATION PROJECT
 OKALOOSA COUNTY, FLORIDA

PROJECT	C2007-087
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 DATE



LEGEND
 - - - - - EXISTING GRADE
 _____ FINISHED GRADE
 - · - · - 2' OVERREDGE



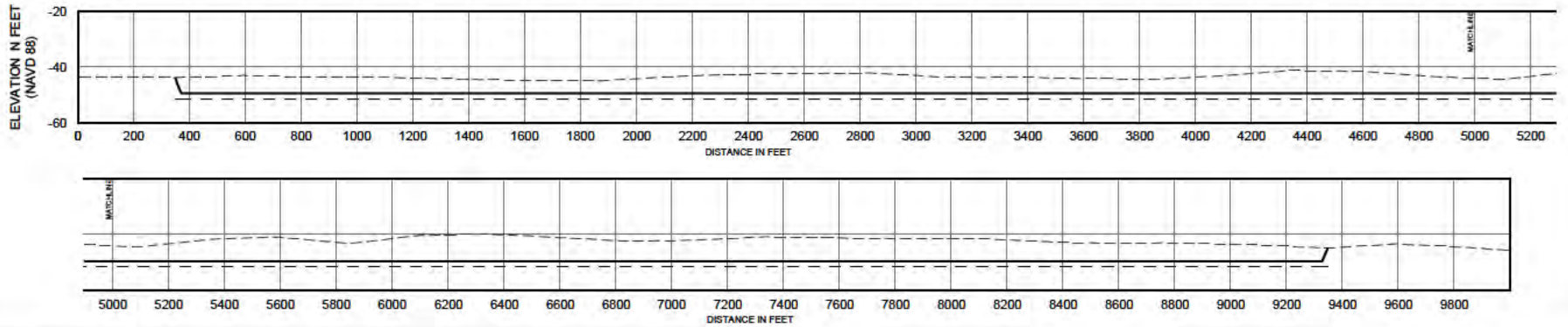
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FIGURE C-6
 BORROW AREA SECTIONS
 OKALOOSA ISLAND BEACH RESTORATION PROJECT
 OKALOOSA COUNTY, FLORIDA

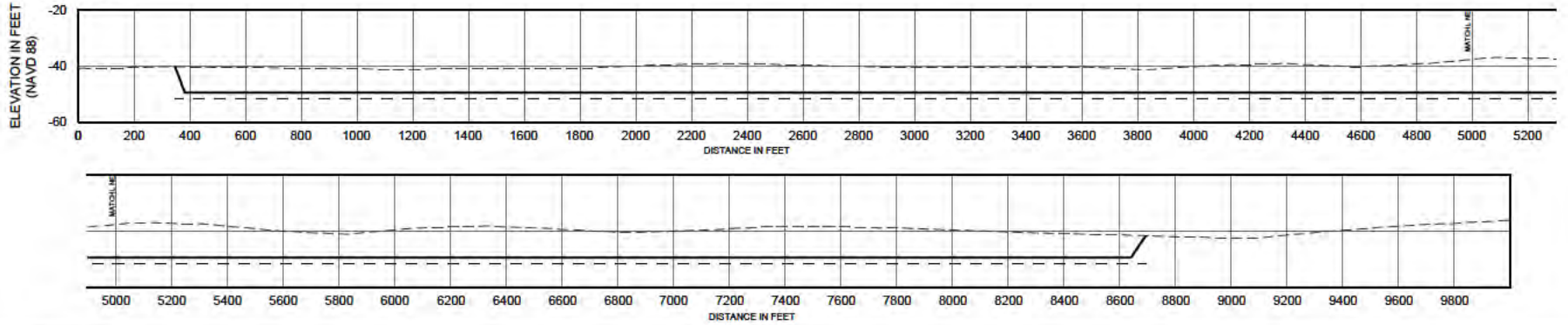
PROJECT	C2007-087
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MICHAEL E. TRUDNAK FL. PE# 58200	DATE

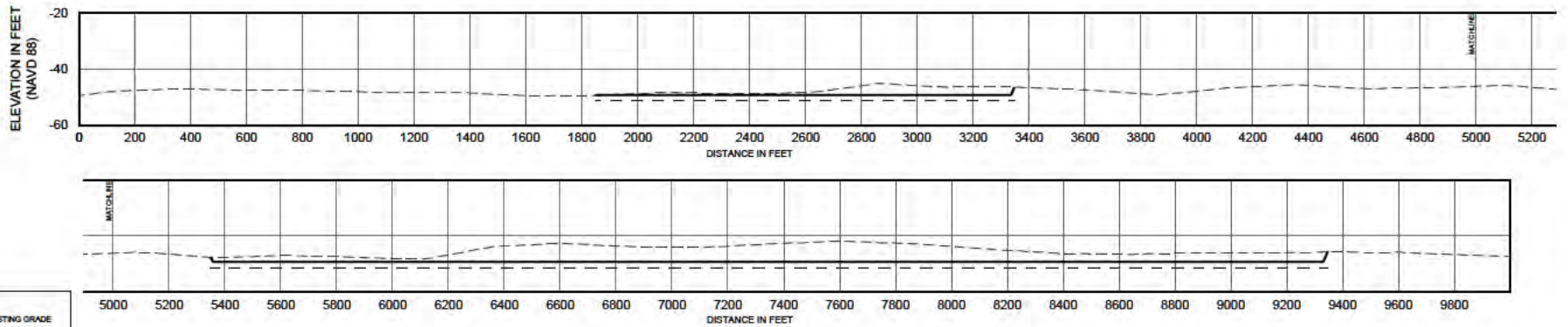
SECTION G



SECTION F



SECTION H



LEGEND
 - - - - - EXISTING GRADE
 _____ FINISHED GRADE
 - · - · - 2' OVERREDGE

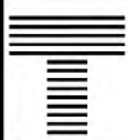
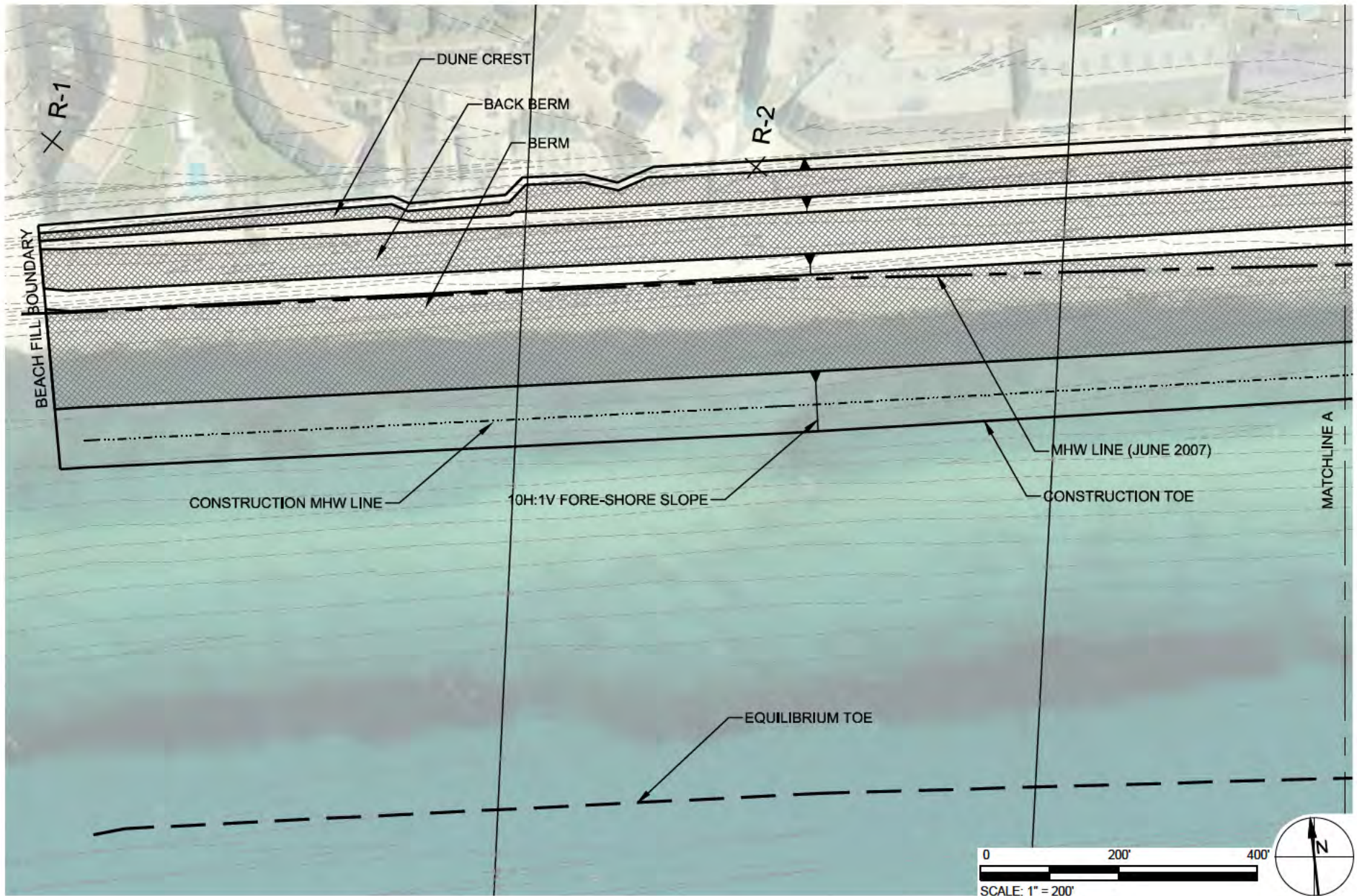


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FIGURE C-7
 BORROW AREA SECTIONS
 OKALOOSA ISLAND BEACH RESTORATION PROJECT
 OKALOOSA COUNTY, FLORIDA

PROJECT C2007-087
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 DATE SEPT 2016

SEAL
 MICHAEL E. TRUDNAK FL. PE# 58200
 DATE

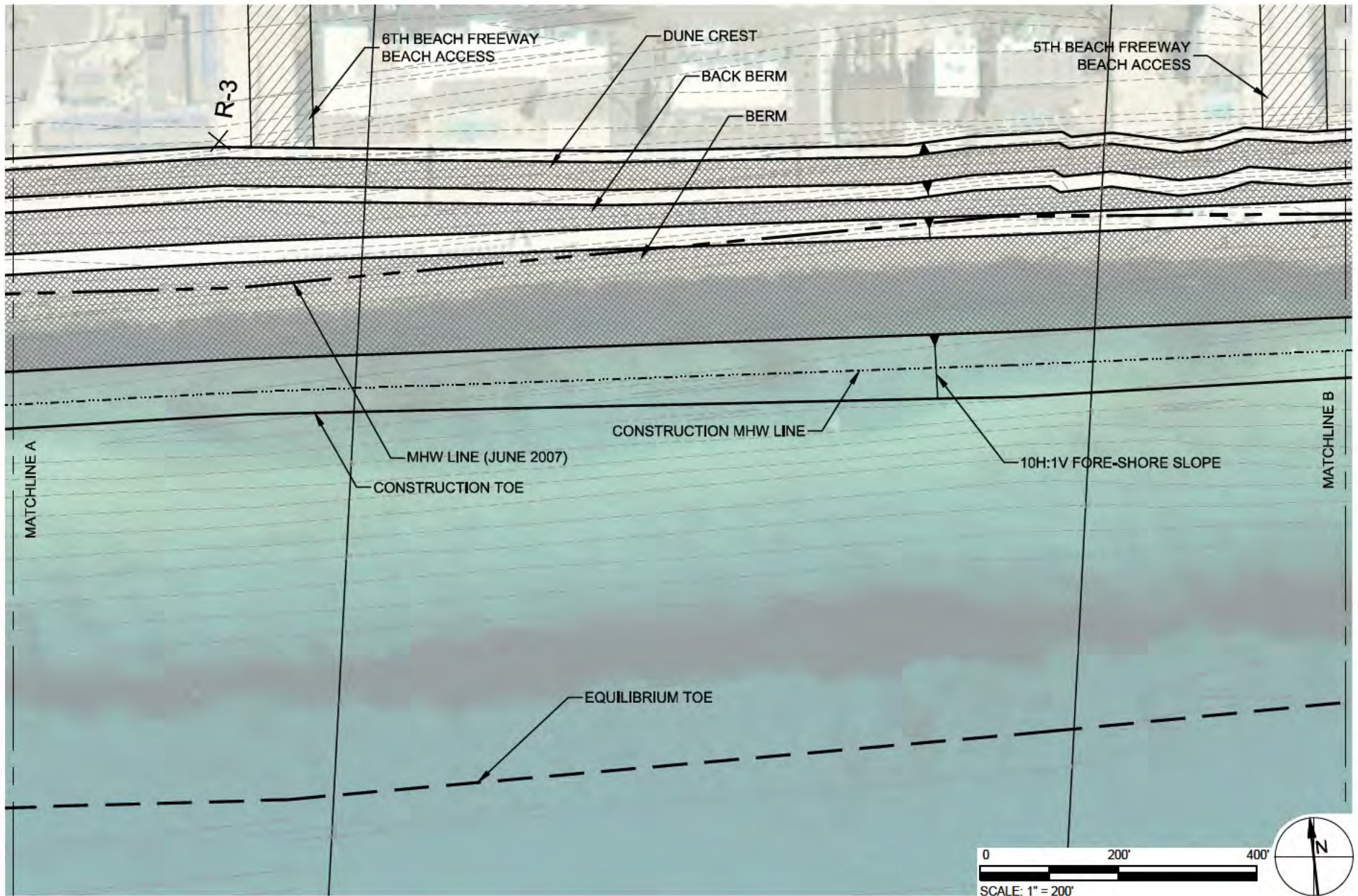


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FIGURE C-8
 BEACH PLAN
 OKALOOSA ISLAND BEACH RESTORATION PROJECT
 OKALOOSA COUNTY, FLORIDA

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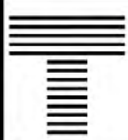
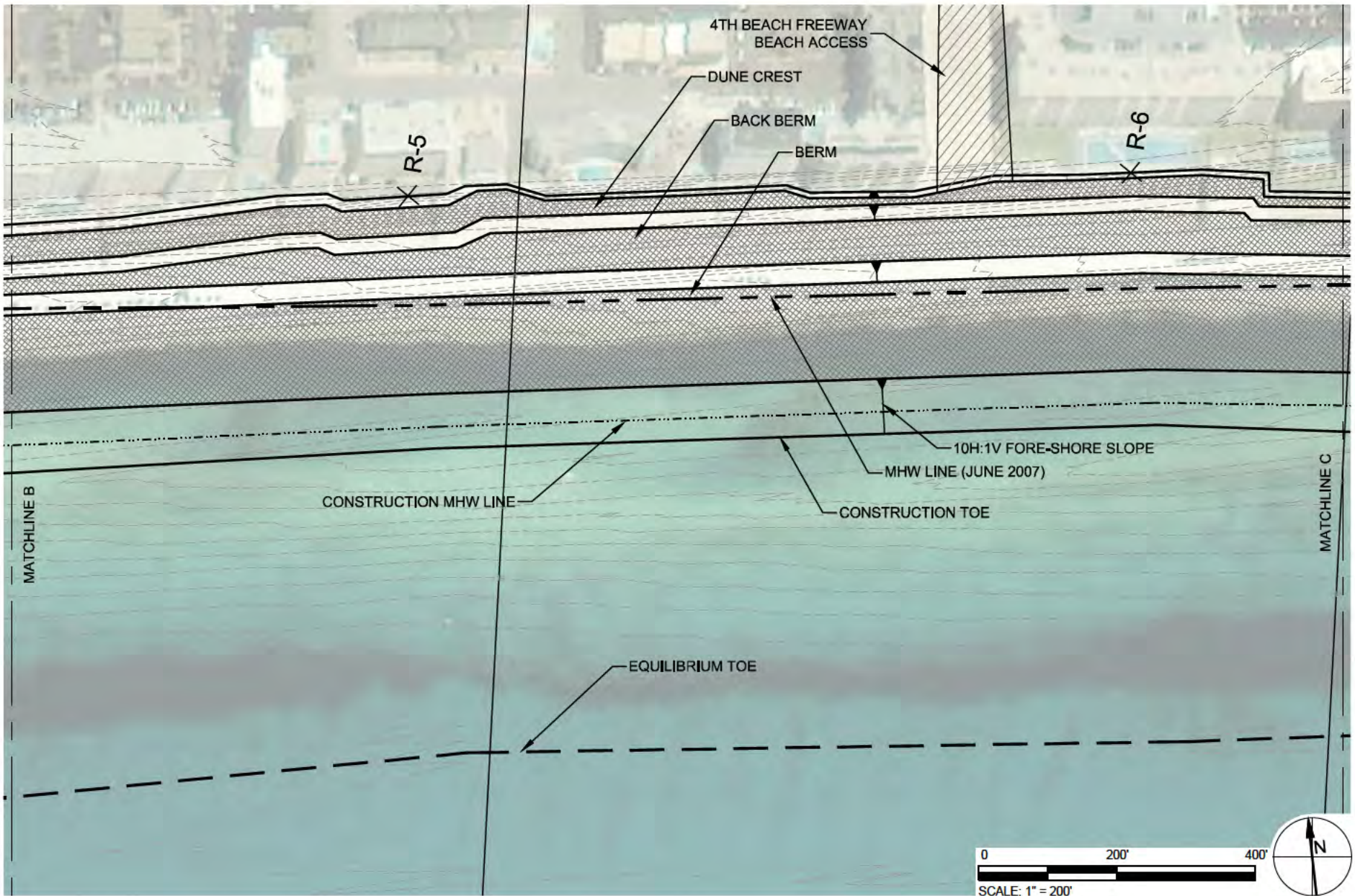
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FIGURE C-9
 BEACH PLAN
 OKALOOSA ISLAND BEACH RESTORATION PROJECT
 OKALOOSA COUNTY, FLORIDA

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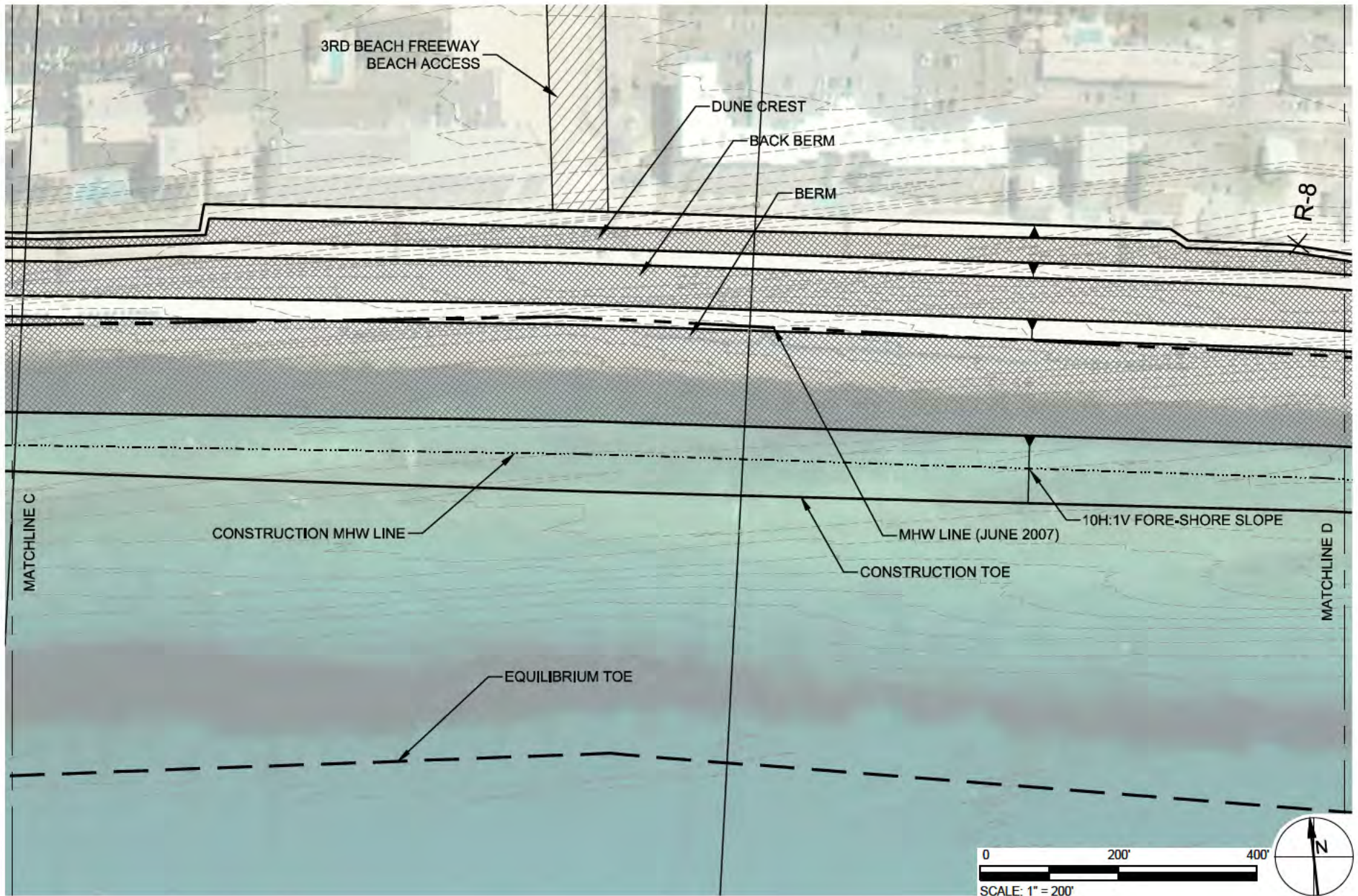
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FIGURE C-10
BEACH PLAN
OKALOOSA ISLAND BEACH RESTORATION PROJECT
OKALOOSA COUNTY, FLORIDA

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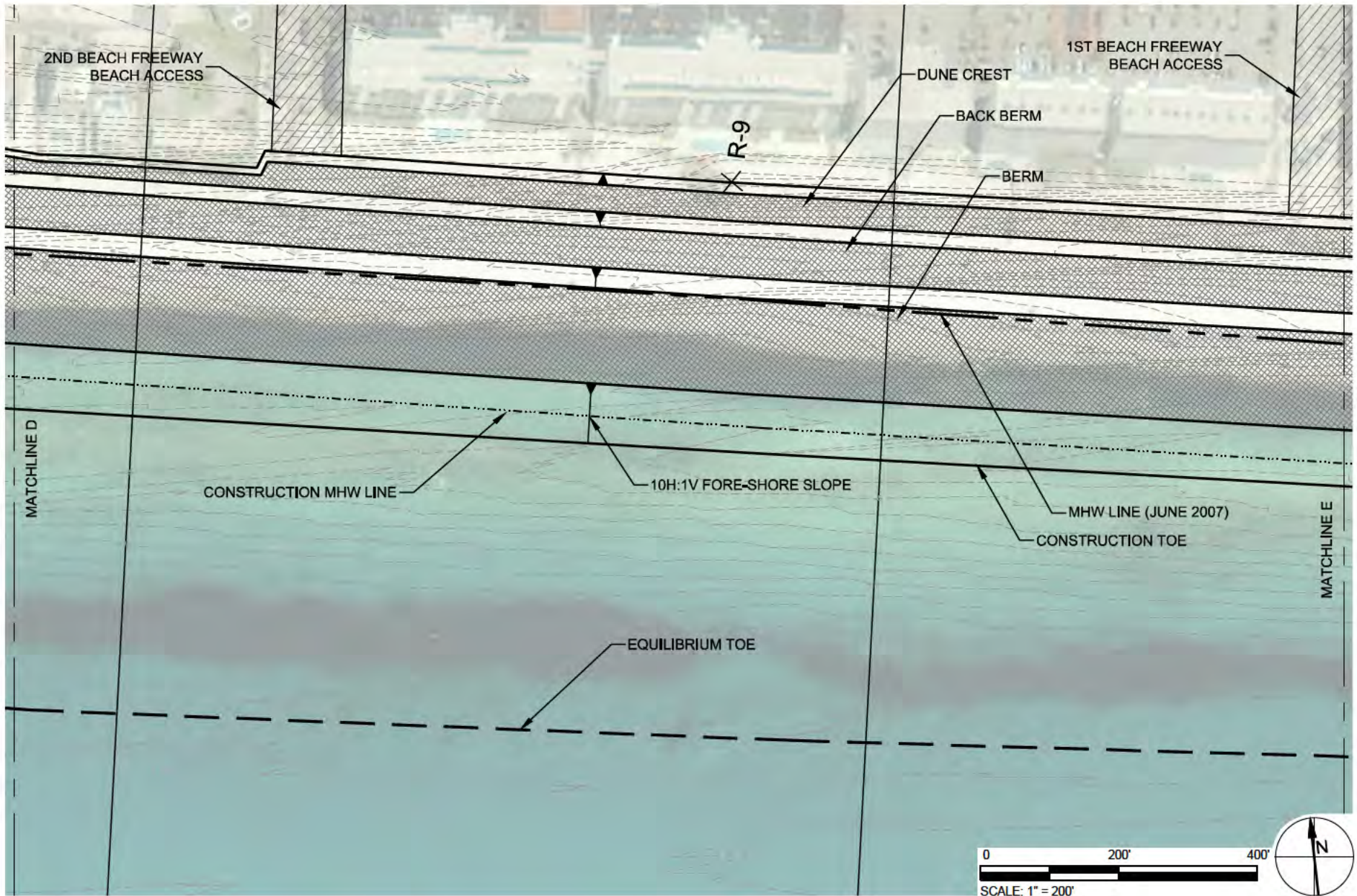
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FIGURE C-11
BEACH PLAN
OKALOOSA ISLAND BEACH RESTORATION PROJECT
OKALOOSA COUNTY, FLORIDA

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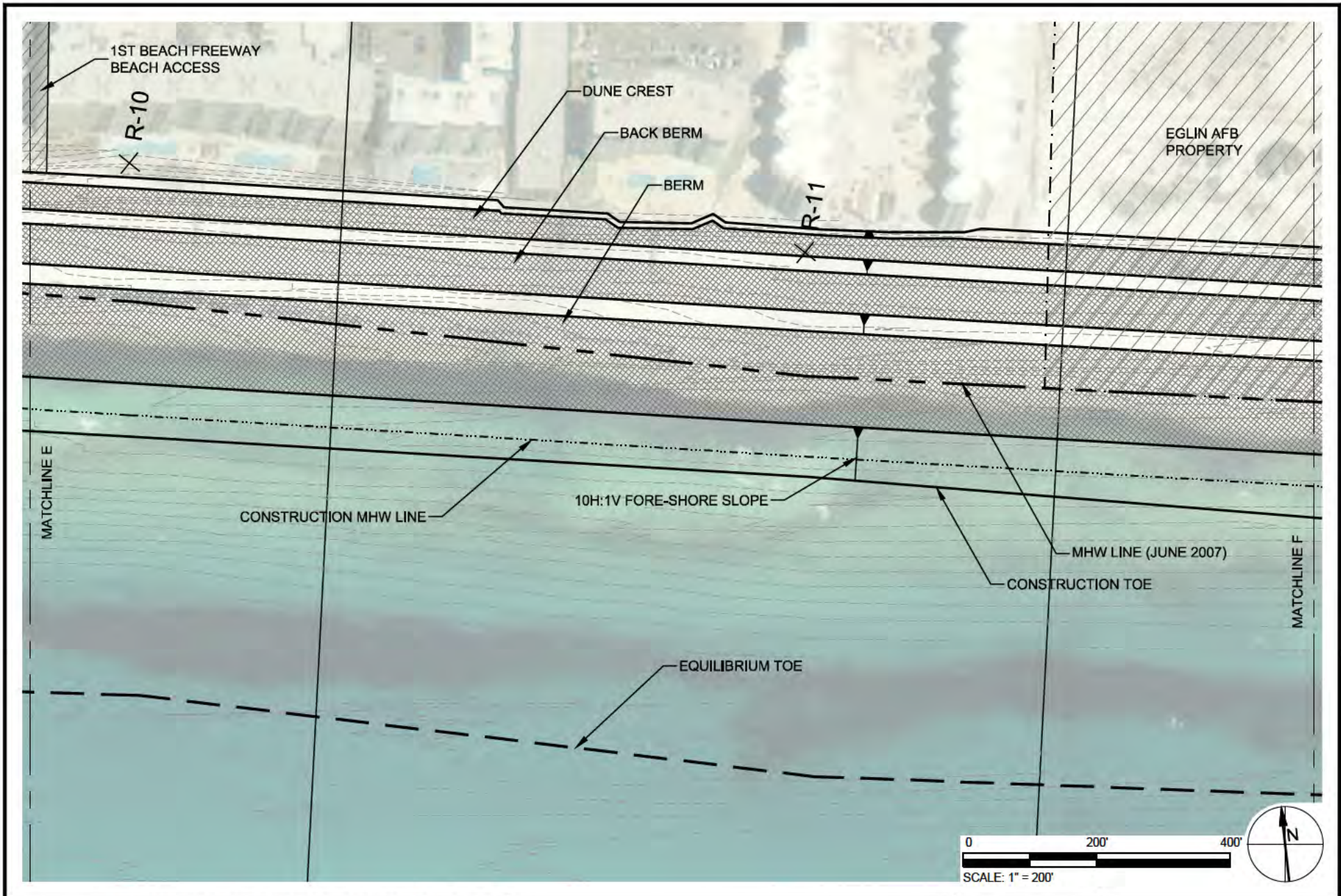
FIGURE C-12
 BEACH PLAN
 OKALOOSA ISLAND BEACH RESTORATION PROJECT
 OKALOOSA COUNTY, FLORIDA

PROJECT	C2007-087
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DATE

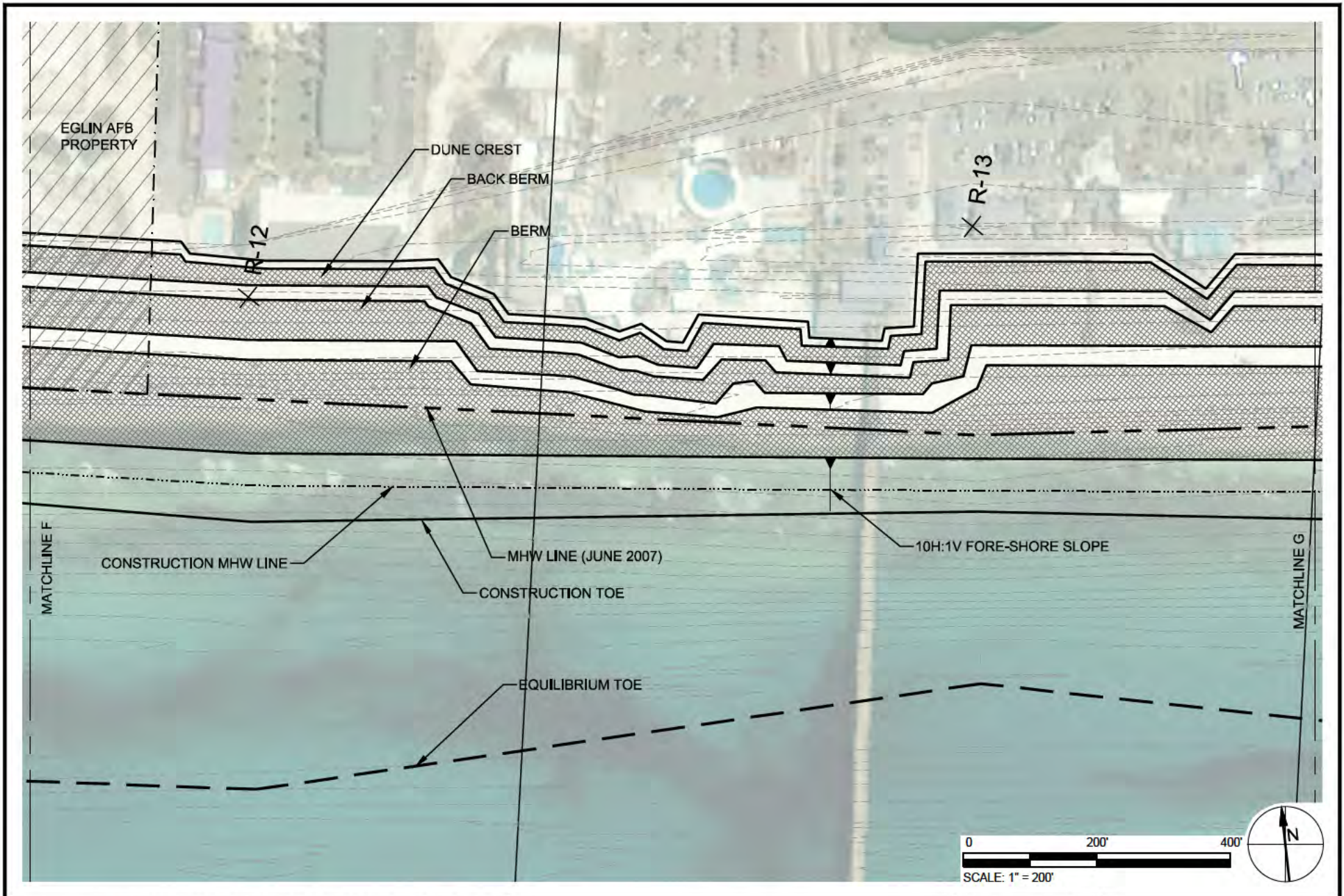



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FIGURE C-13
 BEACH PLAN
 OKALOOSA ISLAND BEACH RESTORATION PROJECT
 OKALOOSA COUNTY, FLORIDA

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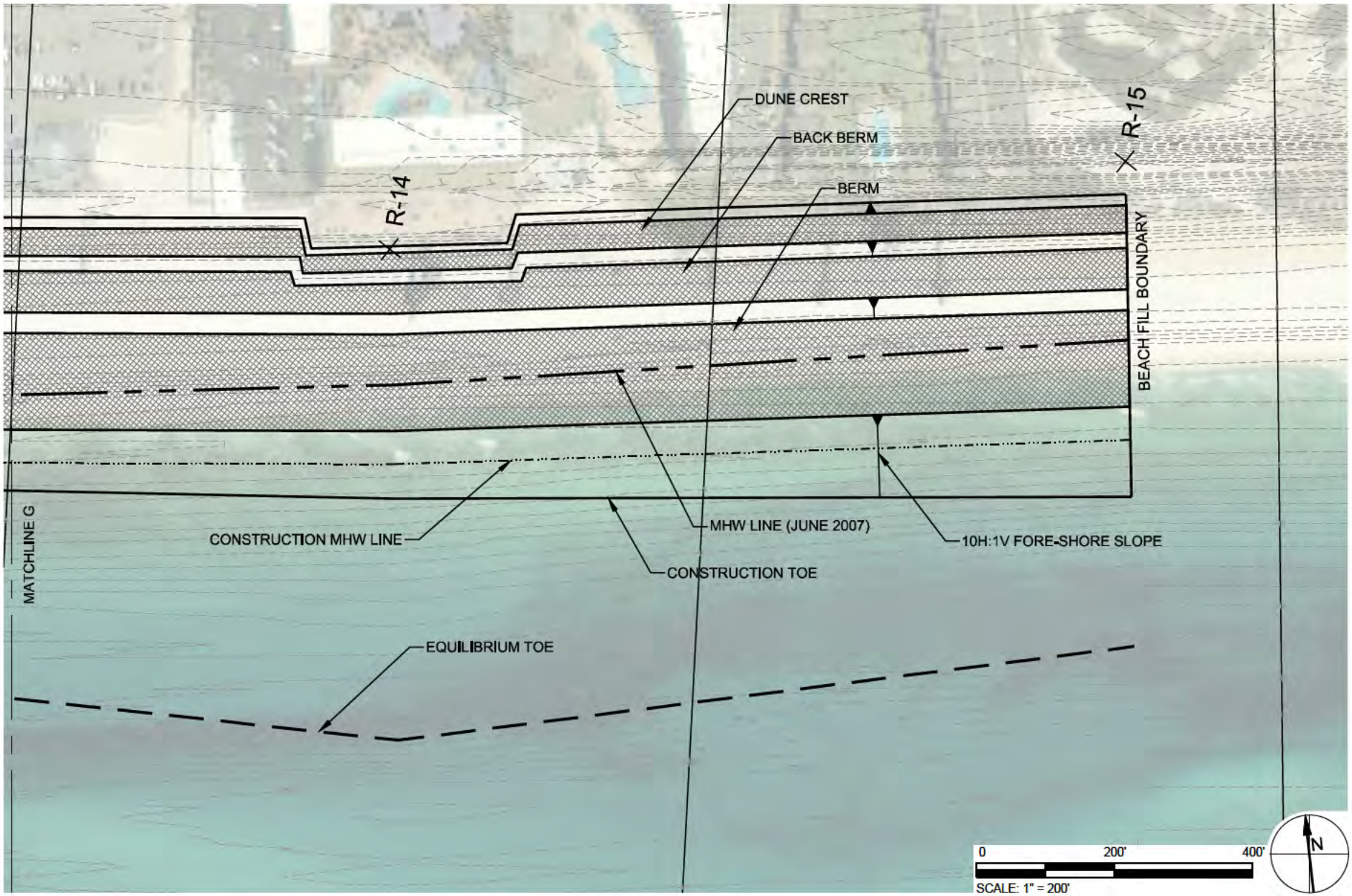



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FIGURE C-14
 BEACH PLAN
 OKALOOSA ISLAND BEACH RESTORATION PROJECT
 OKALOOSA COUNTY, FLORIDA

PROJECT	C2007-087
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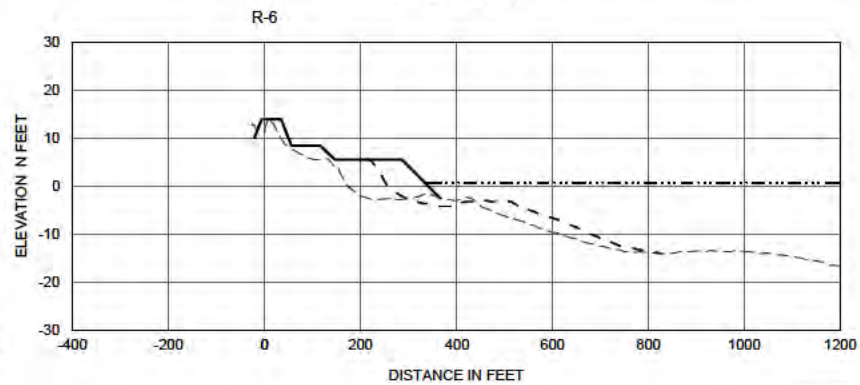
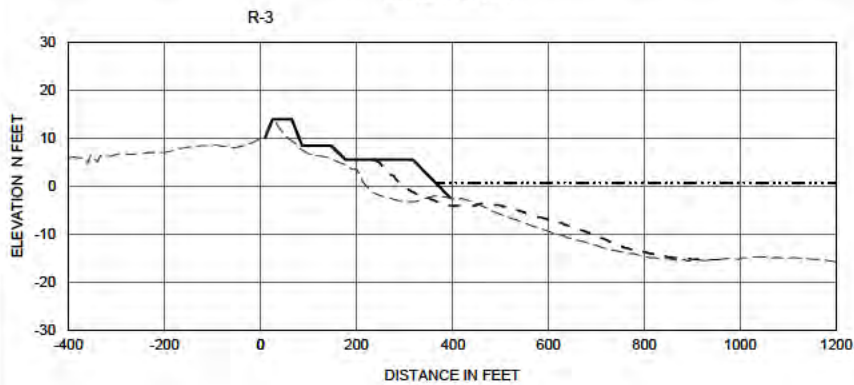
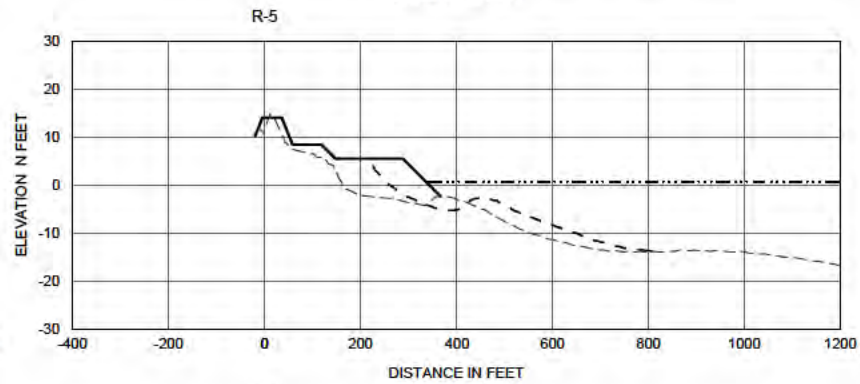
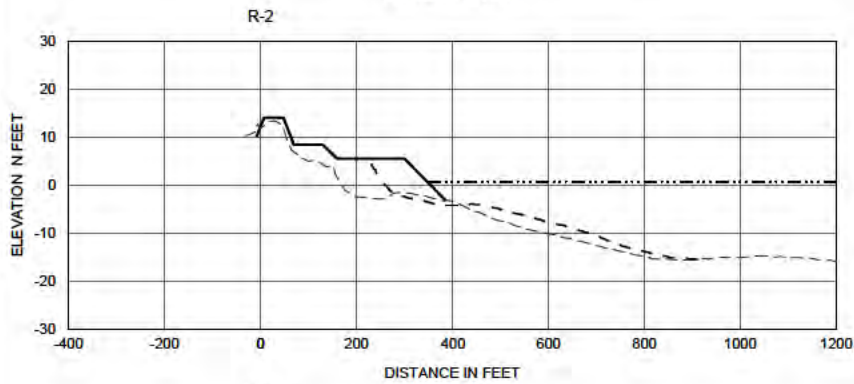
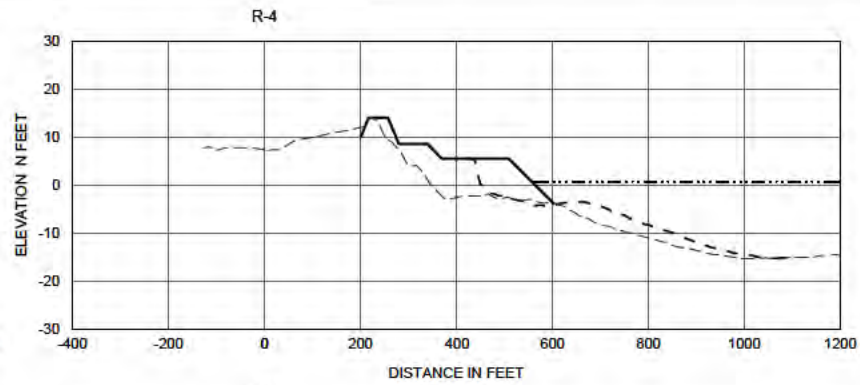
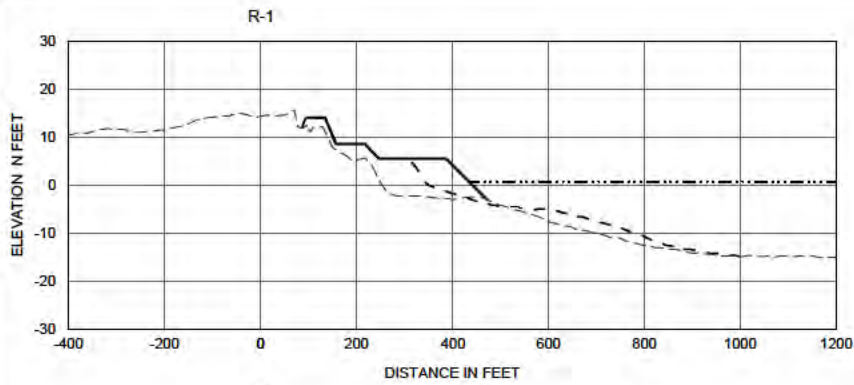


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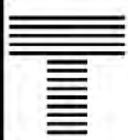
FIGURE C-15
 BEACH PLAN
 OKALOOSA ISLAND BEACH RESTORATION PROJECT
 OKALOOSA COUNTY, FLORIDA

PROJECT	C2007-087
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SEAL	
MICHAEL E. TRUDNAK FL. PE# 58200	DATE



LEGEND	
---	EXISTING GRADE
—	FINISHED GRADE
...	EQUILIBRIUM GRADE
- · - · -	MHW (0.86' NAVD)

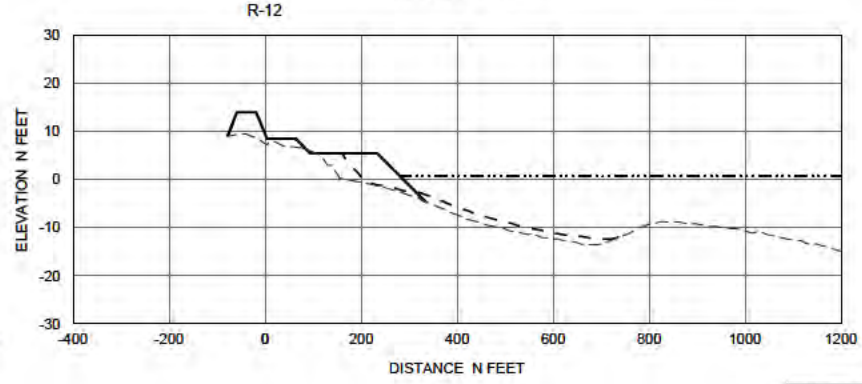
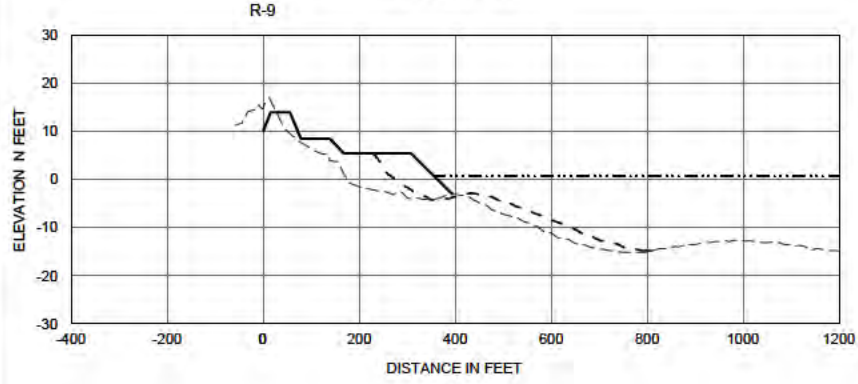
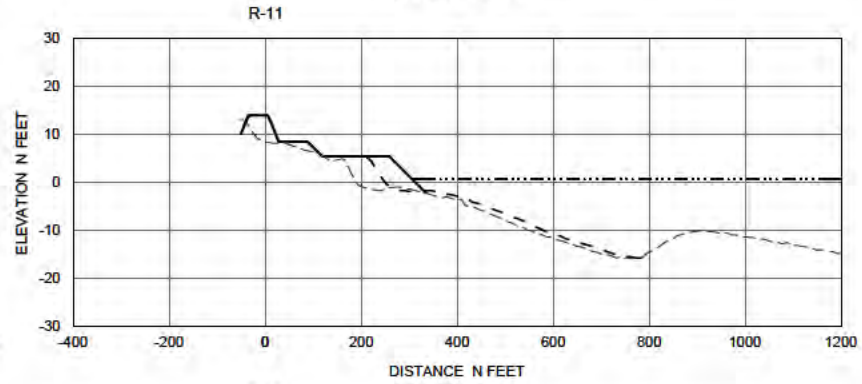
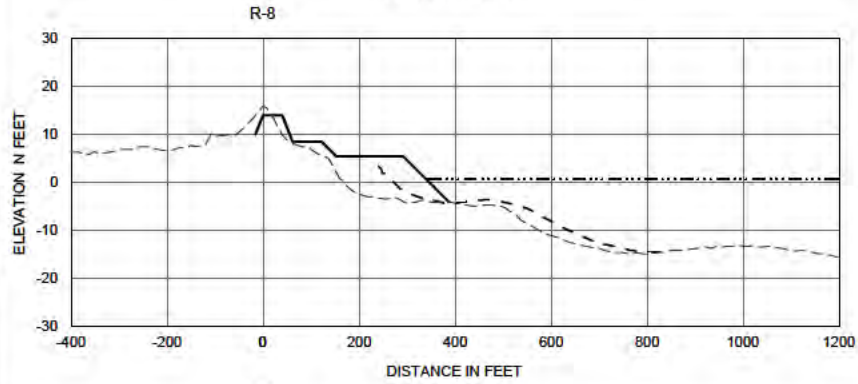
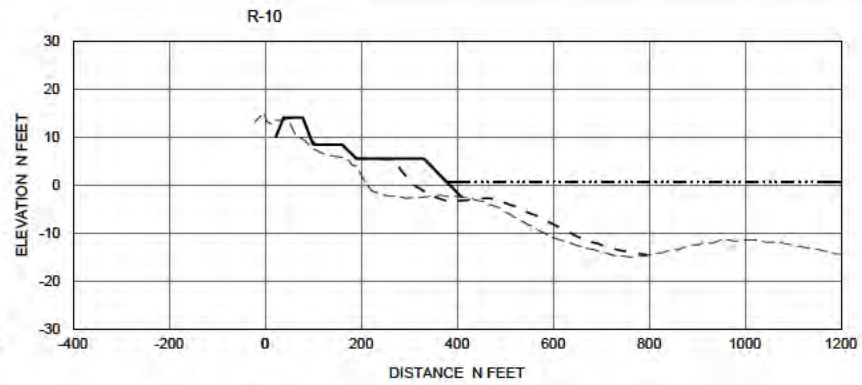
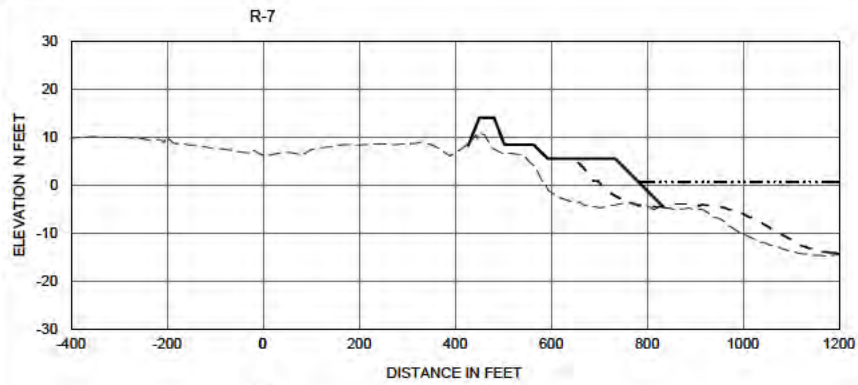


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 CERTIFICATE OF AUTHORIZATION # 4815

FIGURE C-16
 BEACH SECTIONS
 OKALOOSA ISLAND BEACH RESTORATION PROJECT
 OKALOOSA COUNTY, FLORIDA

PROJECT	C2007-087
DRAWN BY	AF
SHEET	17 of 21
DATE	SEPT 2016

SEAL	
MICHAEL E. TRUDNAK FL. PE# 58200	DATE



LEGEND	
---	EXISTING GRADE
—	FINISHED GRADE
- · -	EQUILIBRIUM GRADE
· · · · ·	MHW (0.86' NAVD)

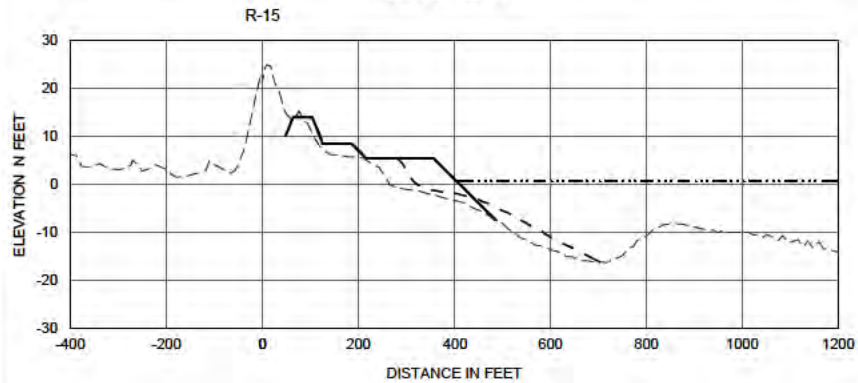
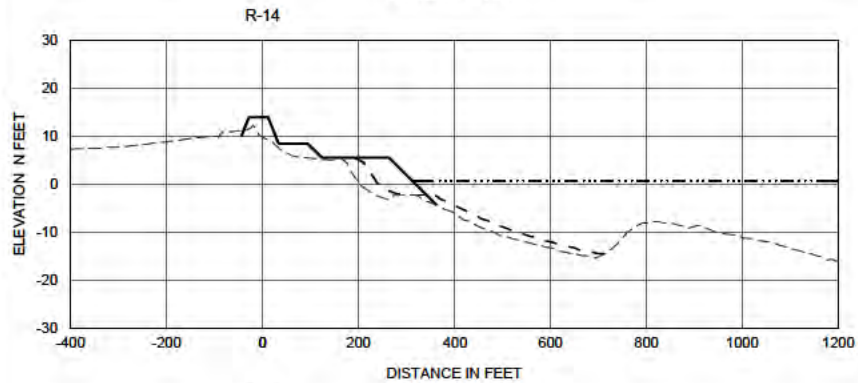
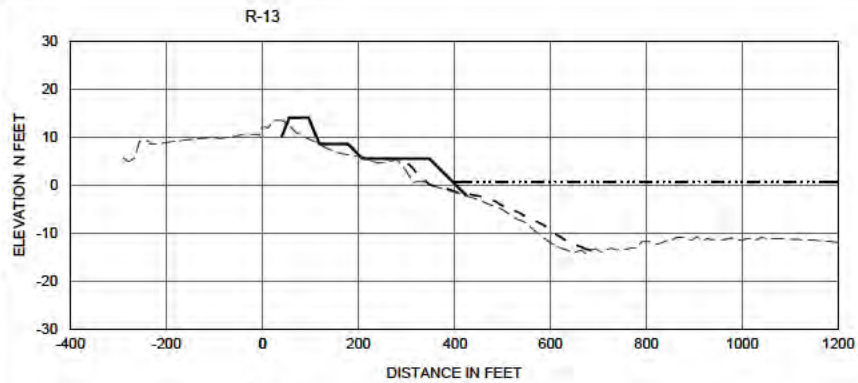


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FIGURE C-17
 BEACH SECTIONS
 OKALOOSA ISLAND BEACH RESTORATION PROJECT
 OKALOOSA COUNTY, FLORIDA

PROJECT	C2007-087
DRAWN BY	AF
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DATE	SEPT 2016

SEAL	
MICHAEL E. TRUDNAK FL. PE# 58200	DATE



LEGEND	
---	EXISTING GRADE
—	FINISHED GRADE
...	EQUILIBRIUM GRADE
- · - · -	MHW (0.86' NAVD)

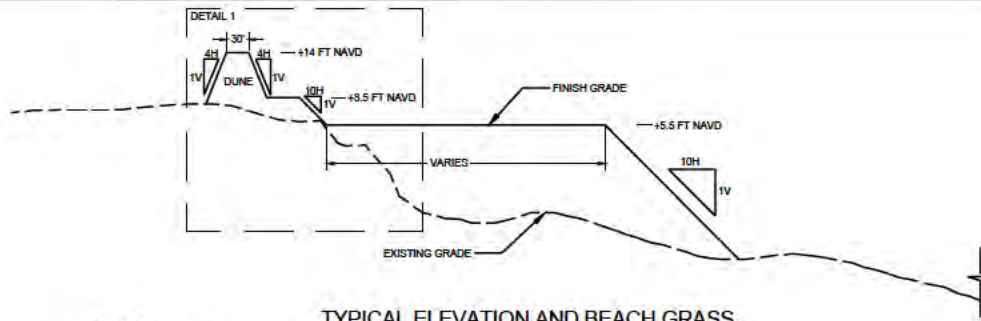


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FIGURE C-18
 BEACH SECTIONS
 OKALOOSA ISLAND BEACH RESTORATION PROJECT
 OKALOOSA COUNTY, FLORIDA

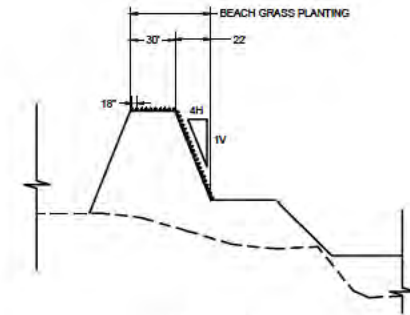
PROJECT	C2007-087
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DATE	SEPT 2016

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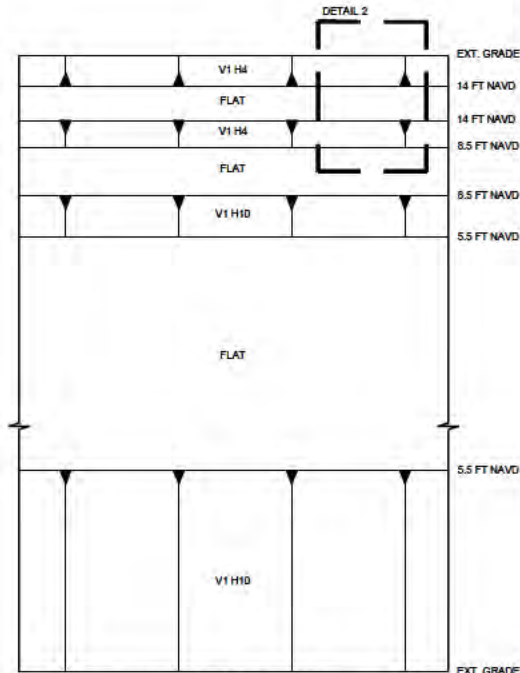


TYPICAL ELEVATION AND BEACH GRASS

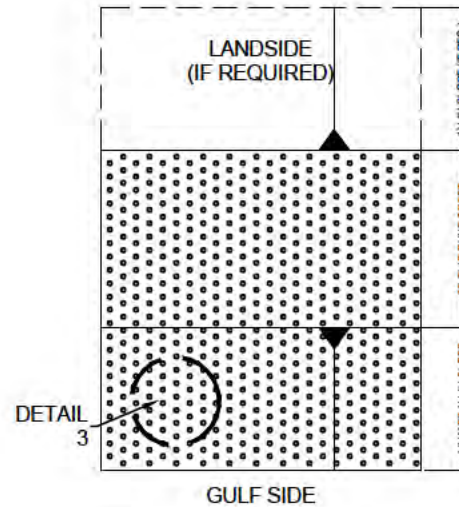
PLANTING
NOT TO SCALE



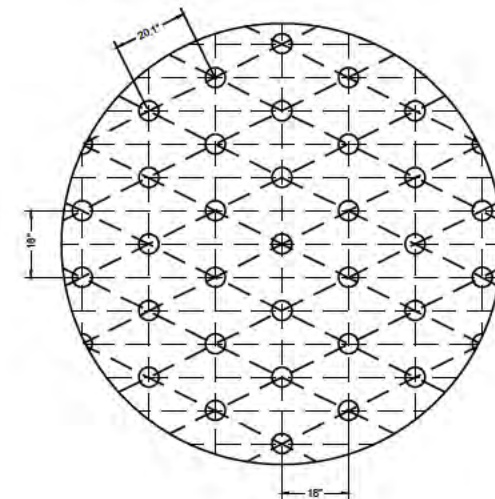
DETAIL 1
NOT TO SCALE



TYPICAL PLAN VIEW
NOT TO SCALE



DETAIL 2
NOT TO SCALE



DETAIL 3
NOT TO SCALE

NOTES

1. THE CONTRACTOR SHALL NOT ENCR OACH INTO EXISTING VEGETATION LANDWARD OF THE BEACH AND DUNE FILL.
2. PLANTING SHALL BE DONE BY HAND.
3. PLANT HEIGHTS SHALL BE BETWEEN 8" - 16" ABOVE THE ROOT BALL.
4. PLANTS SHALL BE PLANTED 15" ON CENTER IN ROWS SPACED 15" APART.
5. THE PLANTING DEPTH SHALL BE AT LEAST 6" INCLUDING THE ROOT BALL.
6. IT IS THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE EXACT NUMBER NEEDED. ALLOWANCES FOR SURVIVAL RATE AND NUMBER OF OPENINGS FOR BEACH ACCESS ARE ALSO THE CONTRACTOR'S RESPONSIBILITY.
7. SEE THE SPECIFICATIONS FOR ADDITIONAL PLANTING AND MAINTENANCE REQUIREMENTS.



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FIGURE C-19
DETAILS
OKALOOSA ISLAND BEACH RESTORATION PROJECT
OKALOOSA COUNTY, FLORIDA

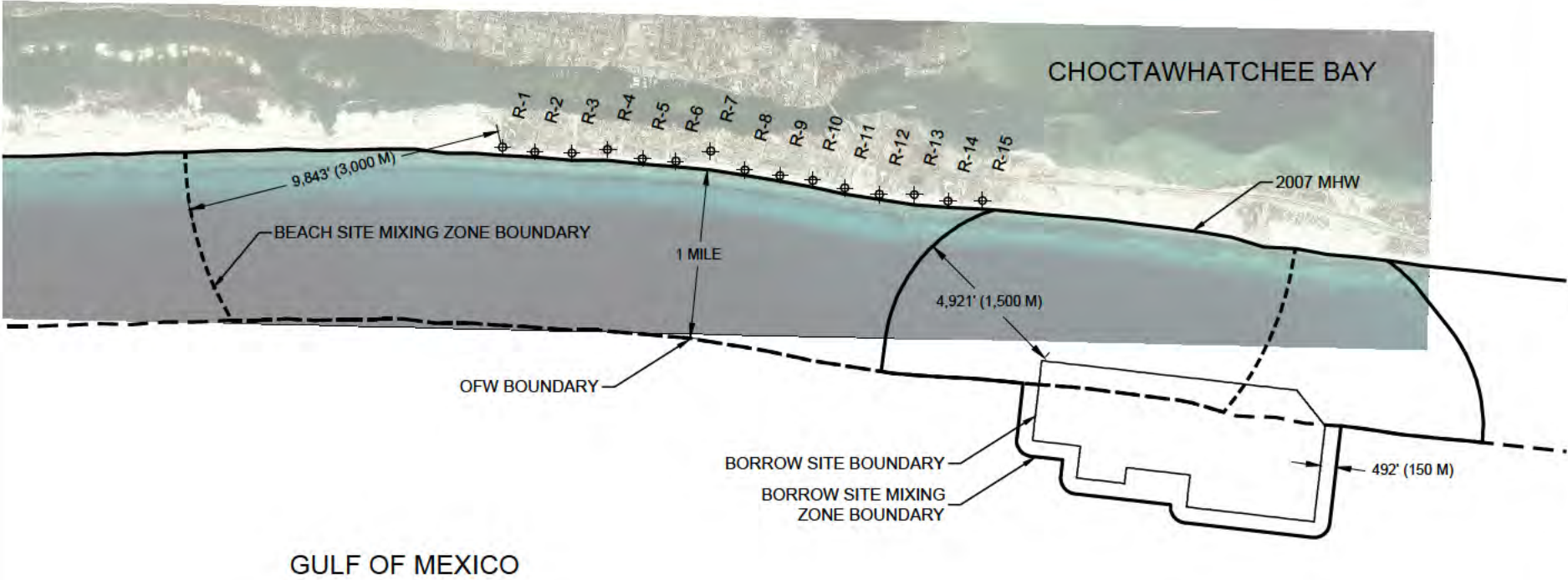
PROJECT	C2007-087
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SEAL

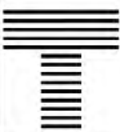
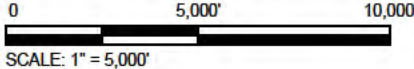
MICHAEL E. TRUDNAK FL. PE# 58200

DATE

NOTE: THE MIXING ZONE BOUNDARIES SHOWN REPRESENT THE MAXIMUM LIMITS. ACTUAL MIXING ZONE BOUNDARIES ARE MEASURED FROM THE POINT OF DISCHARGE



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FIGURE C-20
BEACH AND BORROW SITE MIXING ZONE BOUNDARIES
OKALOOSA ISLAND BEACH RESTORATION PROJECT
OKALOOSA COUNTY, FLORIDA

PROJECT	C2007-087
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MICHAEL E. TRUDNAK FL. PE# 58200	DATE