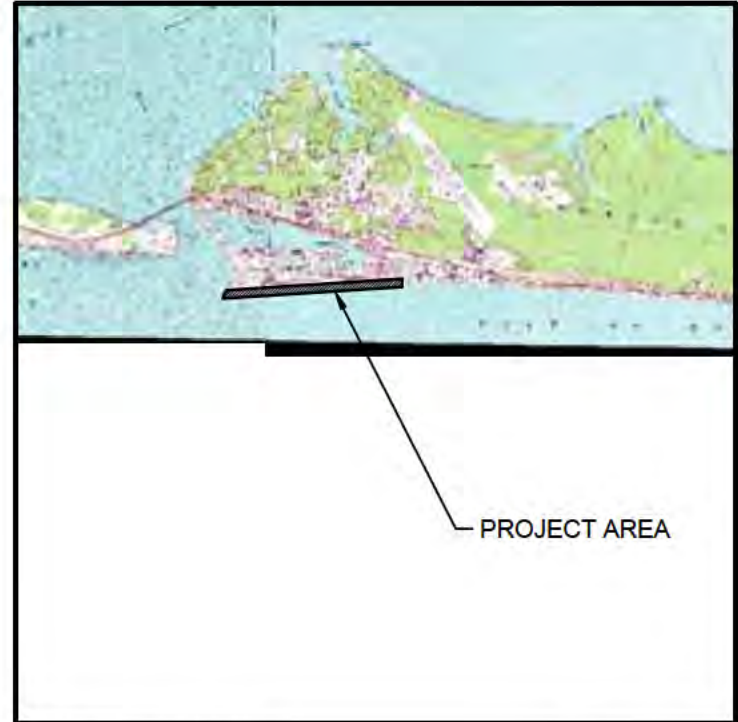


LOCATION MAP
N.T.S.

WEST DESTIN BEACH RESTORATION PROJECT

OKALOOSA COUNTY, FLORIDA



VICINITY MAP
1"= 10,000'

REFERENCE:
USGS 7.5' QUADRANGLE MAP,
FORT WALTON BEACH, FLORIDA 1979

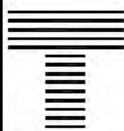
DRAWING INDEX

- G-1 TITLE
- C-1 PLAN OVERVIEW
- C-2 SECTION OVERVIEW
- C-3 BORROW AREA PLAN
- C-4 VIBRACORE LOCATIONS
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- C-12 BEACH PLAN
- C-13 BEACH SECTIONS
- C-14 BEACH SECTIONS
- C-15 DETAILS

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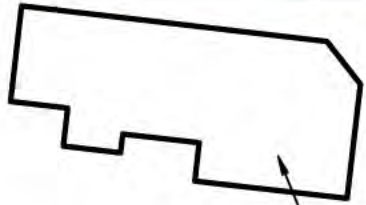
FIGURE G-1
TITLE
WEST DESTIN BEACH RESTORATION PROJECT
OKALOOSA COUNTY, FLORIDA

PROJECT	C2007-078
DRAWN BY	AF
SHEET	1 of 17
DATE	MAR 2009

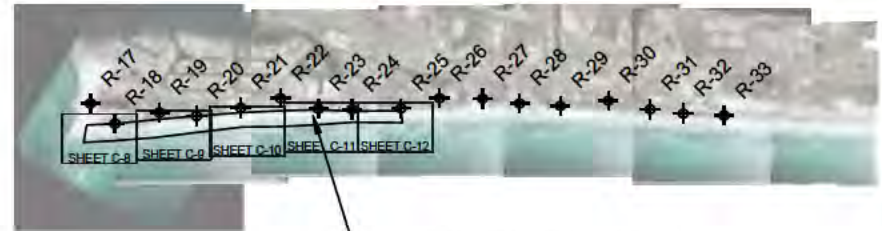
SEAL

MICHAEL E. TRUDNAK FL P.E. # 58200

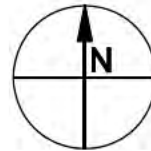
DATE



BORROW SITE



BEACH RESTORATION AREA



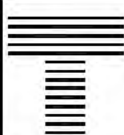
POINT TABLE			
POINT	EASTING	NORTHING	DESCRIPTION
17	1336217.40	508888.40	R-17
18	1336849.50	508380.90	R-18
19	1338023.90	508645.40	R-19
20	1338978.00	508554.60	R-20
21	1340133.60	508776.80	R-21
22	1341183.60	508024.70	R-22
23	1342158.90	508752.30	R-23
24	1343025.80	508729.60	R-24
25	1344306.90	508754.20	R-25
26	1345305.30	509018.30	R-26
27	1346437.40	509014.00	R-27
28	1347391.80	508891.10	R-28
29	1348456.10	508823.40	R-29
30	1349707.00	508963.50	R-30
31	1350799.10	508741.40	R-31
32	1351659.10	508622.20	R-32
33	1352719.80	508570.10	R-33

GENERAL NOTES

1. ALL ELEVATIONS REFERENCE THE 1988 NORTH AMERICAN VERTICAL DATUM (NAVD 88).
2. ALL COORDINATES REFERENCE STATE PLANE FLORIDA NORTH NAD 83.
3. BORROW AREA BATHYMETRY SURVEYED IN OCTOBER 2007 BY MORGAN & EKLUND, INC..
4. EXISTING BEACH GRADE SURVEYED IN JUNE 2007 BY FLORIDA DEPARTMENT OF ENVIRONMENTAL PROTECTION.
5. CONSTRUCTION TEMPLATE DESIGNED WITH THE FOLLOWING FEATURES

WESTERN DESTIN BEACH

- (1) A DUNE WITH A 30-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 DOESNT TIE INTO THE EXISTING DUNE, THE LANDWARD DUNE FACE WILL SLOPE 1V 4H DOWN TO THE EXISTING TOPOGRAPHY
 - (2) A 30-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 VARIABLE WIDTH 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. WHERE APPLICABLE, LANDWARD SIDE OF DUNE SLOPES 1V 4H TO CONSTRUCTION BERM OR EXISTING GRADE.
 7. 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.
 8. BEACH RESTORATION INCLUDES TWO REACHES
 - 8.1. REACH 1 EXTENDS FROM THE EAST JETTY OF EAST PASS TO APPROXIMATELY R-22.6.
 - 8.2. REACH 2 EXTENDS FROM APPROXIMATELY R-23.2 TO R-25.5.
 - 8.3. THE OCEANIA CONDOMINIUMS PROPERTY BOUNDARY DEFINES THE GAP BETWEEN REACH 1 AND REACH 2.



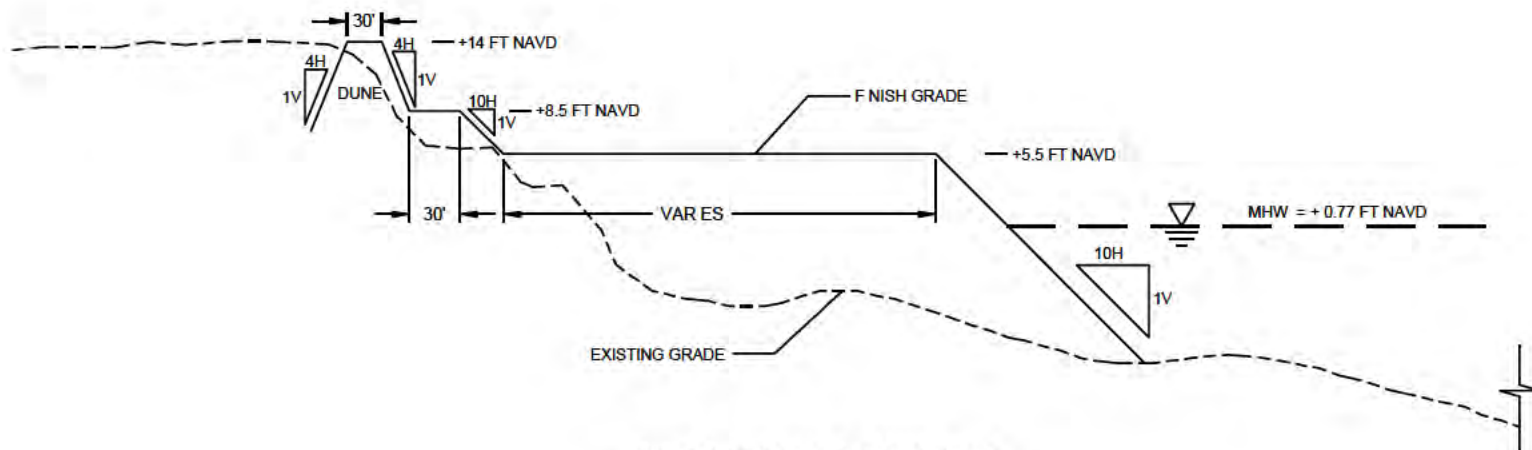
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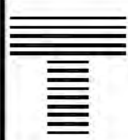
FIGURE C-1
 PLAN OVERVIEW
 WEST DESTIN BEACH RESTORATION PROJECT
 OKALOOSA COUNTY, FLORIDA

PROJECT	C2007-078
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SHEET	2 of 17
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DATE	MICHAEL E. TRUDNAK FL P.E. # 58200



TYPICAL CONSTRUCTION TEMPLATE SECTION
NOT TO SCALE



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

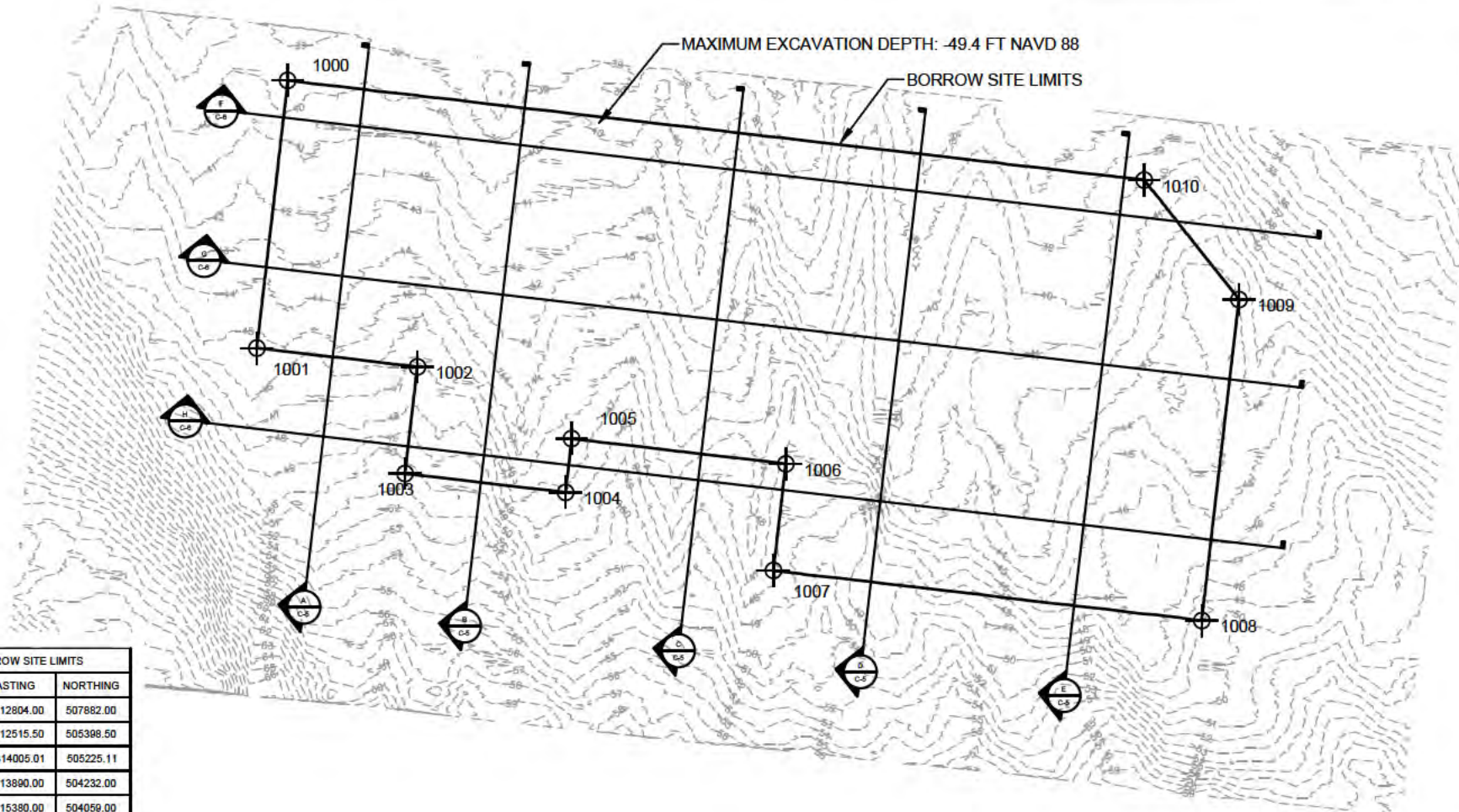
PROJECT	C2007-078
DRAWN BY	AF
SHEET	3 of 17
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SEAL

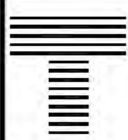
MICHAEL E. TRUDNAK, FL P.E. # 58200
DATE

GENERAL SHEET NOTES

1. CONTOUR ELEVATIONS IN FEET NAVD 1988



BORROW SITE LIMITS		
POINT	EASTING	NORTHING
1000	1312804.00	507882.00
1001	1312515.50	505398.50
1002	1314005.01	505225.11
1003	1313890.00	504232.00
1004	1315380.00	504059.00
1005	1315438.00	504556.00
1006	1317424.00	504325.00
1007	1317309.00	503332.00
1008	1321262.00	502870.00
1009	1321628.00	505850.00
1010	1320750.00	506958.00



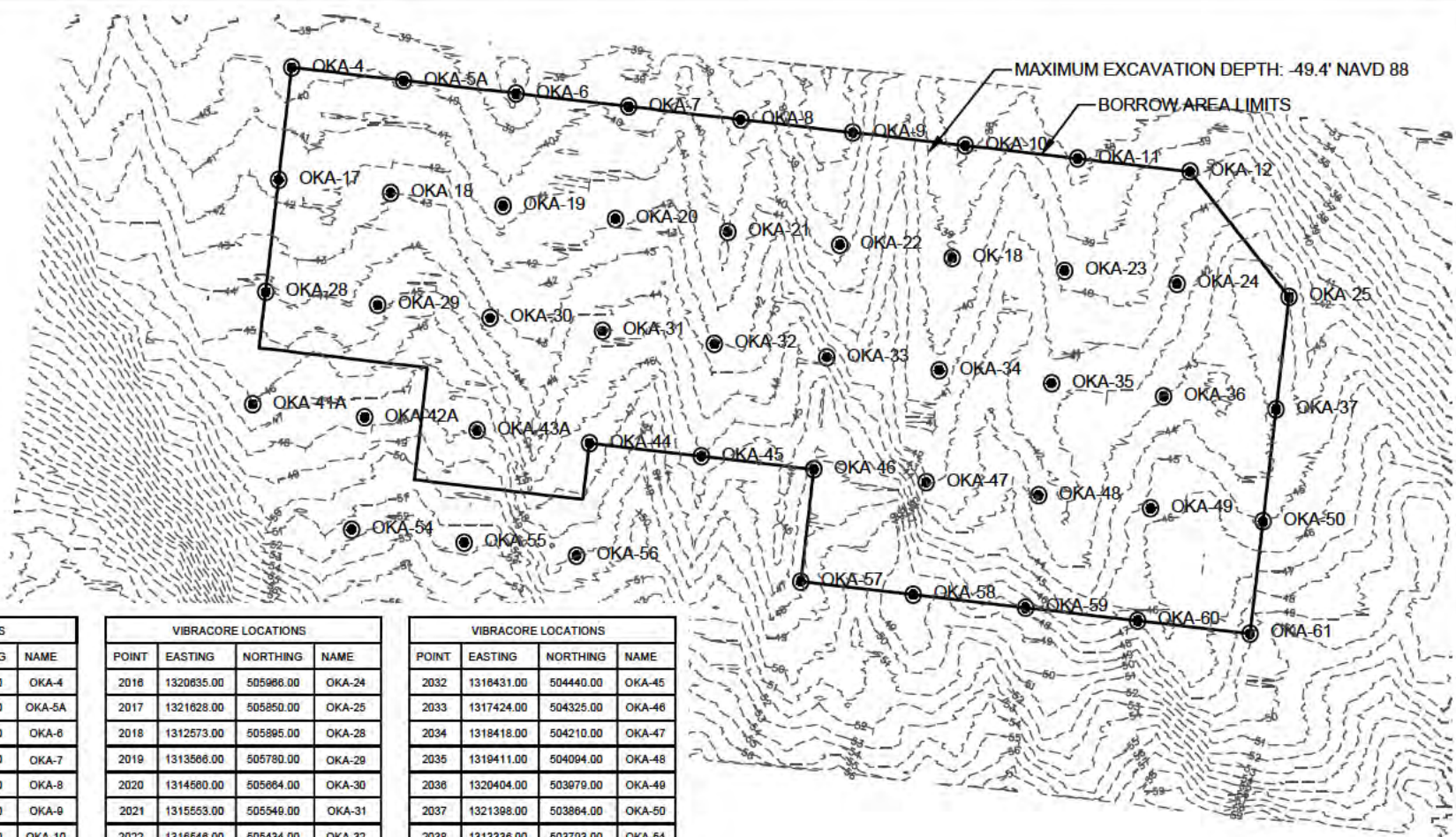
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C-3
BORROW AREA PLAN
WEST DESTIN BEACH RESTORATION PROJECT
OKALOOSA COUNTY, FLORIDA

PROJECT	C2007-078
DRAWN BY	AF
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DATE	MAR 2009

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VIBRACORE LOCATIONS			
POINT	EASTING	NORTHING	NAME
2000	1312804.00	507882.00	OKA-4
2001	1313797.00	507766.00	OKA-5A
2002	1314790.00	507651.00	OKA-6
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
2008	1320750.00	506959.00	OKA-12
2009	1312688.00	506888.00	OKA-17
2010	1313682.00	506773.00	OKA-18
2011	1314675.00	506658.00	OKA-19
2012	1315668.00	506542.00	OKA-20
2013	1316662.00	506427.00	OKA-21
2014	1317655.00	506312.00	OKA-22
2015	1318642.00	506081.00	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	1318431.00	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



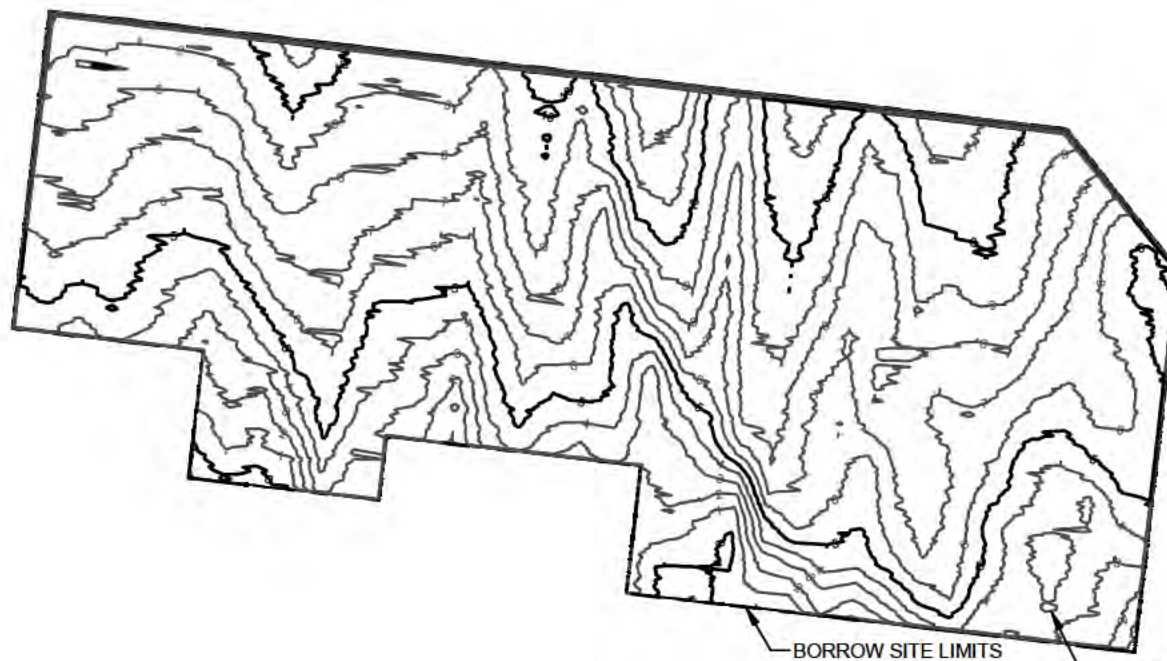

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FIGURE C-4
 VIBRACORE LOCATIONS
 WEST DESTIN BEACH RESTORATION PROJECT
 OKALOOSA COUNTY, FLORIDA

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DATE	MAR 2009	DATE
		MICHAEL E. TRUDNAK, FL P.E. # 58200

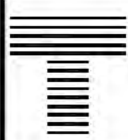
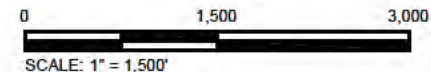
GENERAL SHEET NOTES

1. MAXIMUM EXCAVATION DEPTH: -49.4' NAVD 88
2. CONTOURS REPRESENT THICKNESS OF SAND ABOVE THE MAXIMUM EXCAVATION DEPTH.



BORROW SITE LIMITS

BORROW SITE THICKNESS CONTOURS



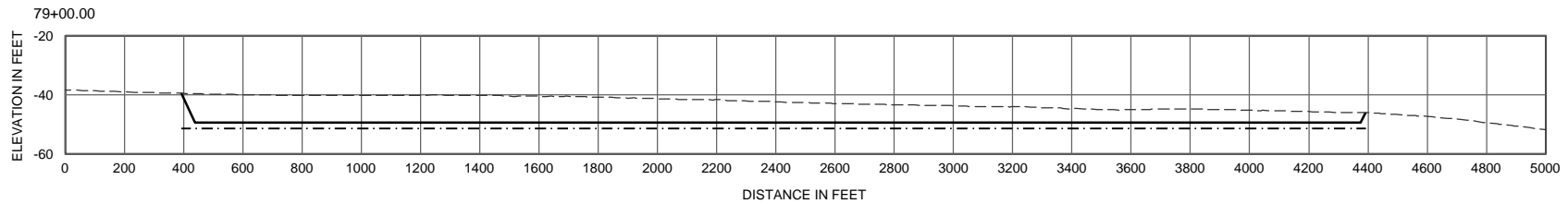
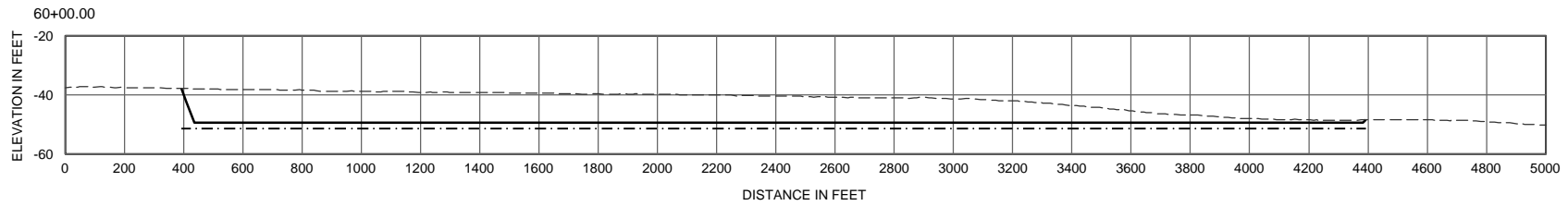
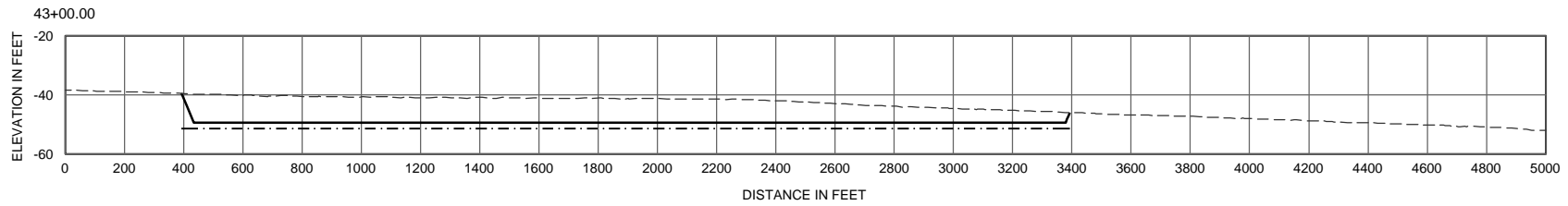
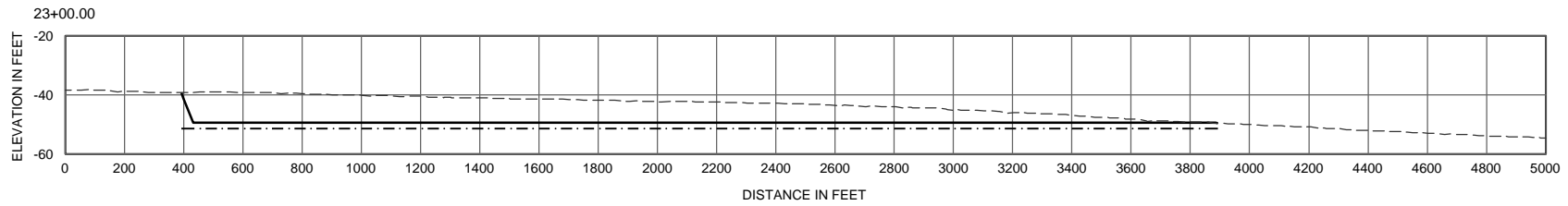
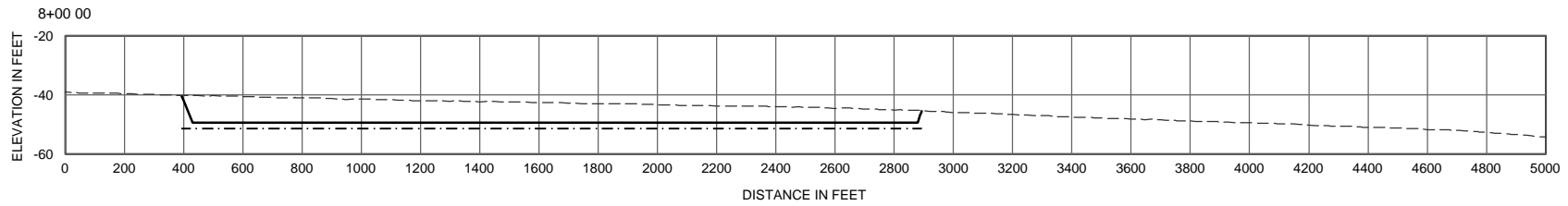
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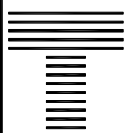
FIGURE C-5
 BORROW AREA THICKNESS CONTOURS
 WEST DESTIN BEACH RESTORATION PROJECT
 OKALOOSA COUNTY, FLORIDA

PROJECT	C2007-078
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LEGEND
 - - - - - EXIST NG GRADE
 _____ FINISHED GRADE
 - . - . - 2' OVERDREDGE



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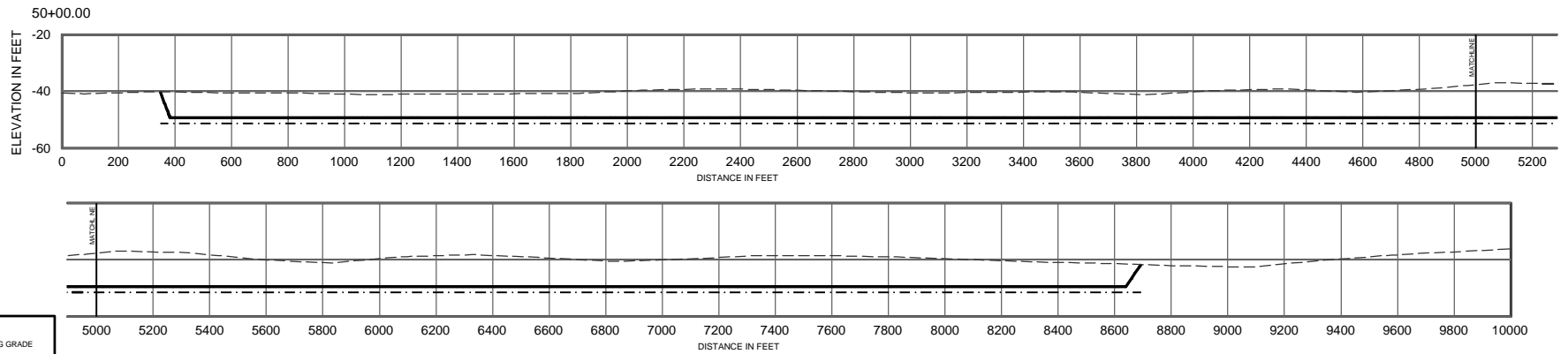
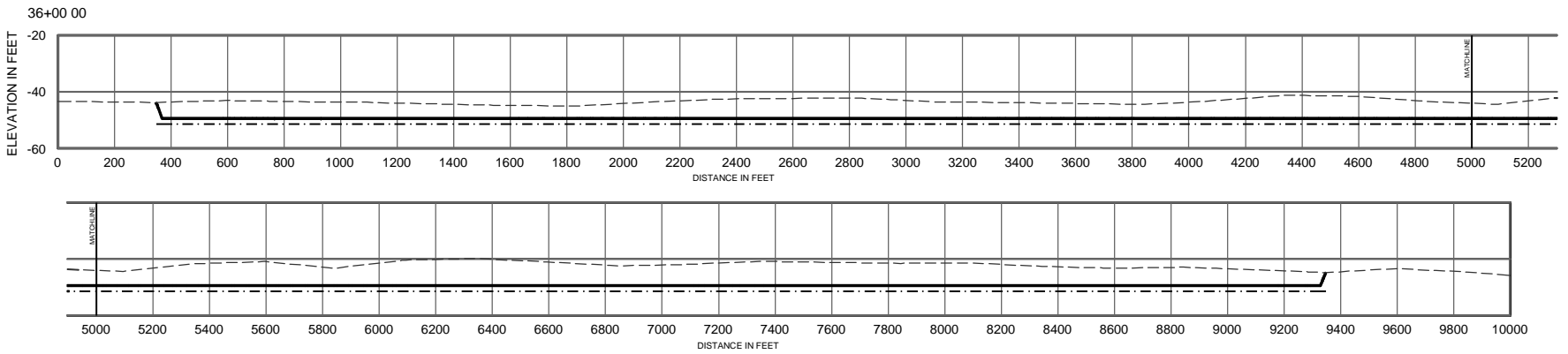
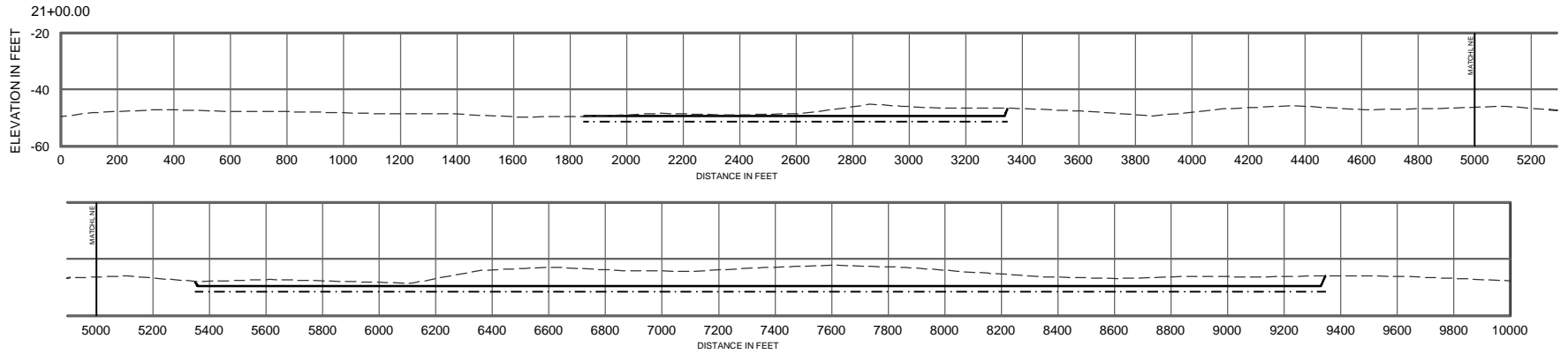
FIGURE C-6
 BORROW AREA SECTIONS
 WEST DESTIN BEACH RESTORATION PROJECT
 OKALOOSA COUNTY, FLORIDA

PROJECT	C2007-078
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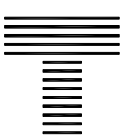
SEAL

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DATE



	EXISTING GRADE
	FINISHED GRADE
	2' OVERDREDGE

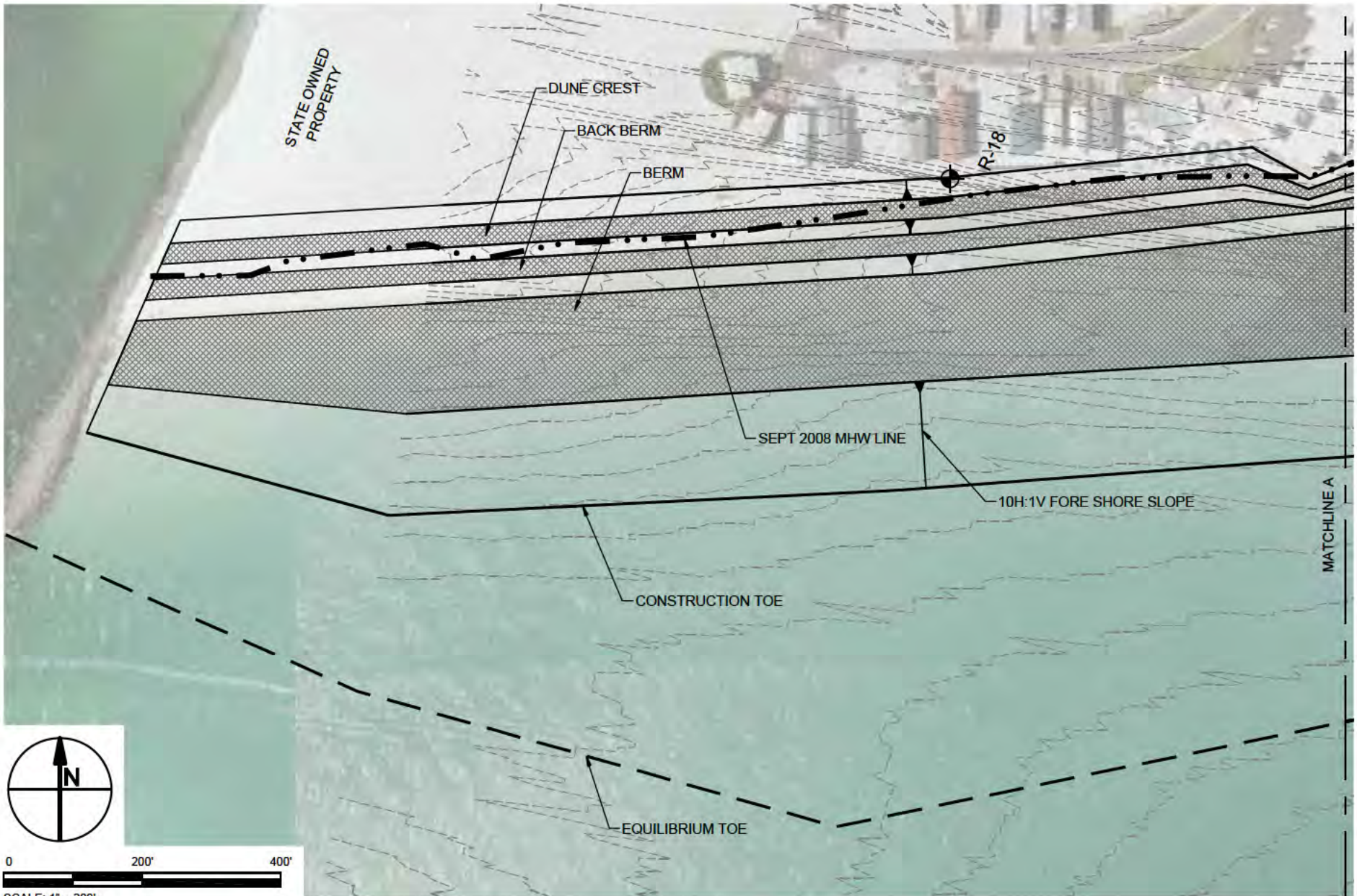


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FIGURE C-7
 BORROW AREA SECTIONS
 WEST DESTIN BEACH RESTORATION PROJECT
 OKALOOSA COUNTY, FLORIDA

PROJECT	C2007-078
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DATE	MAR 2009

SEAL		DATE
	MICHAEL E. TRUDNAK FL P.E. # 58200	

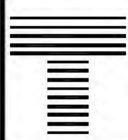
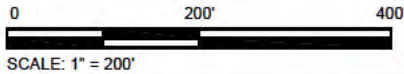
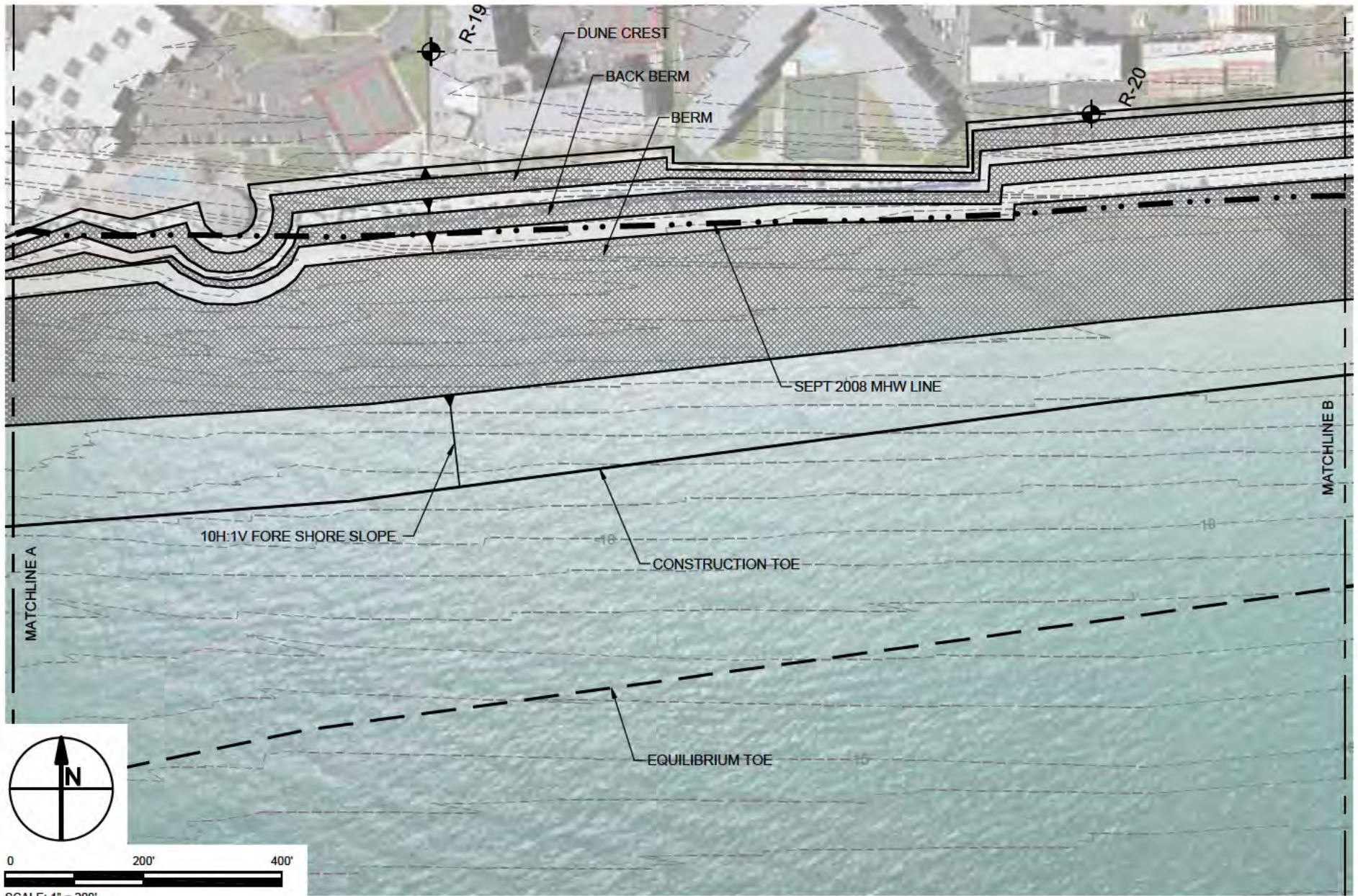



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FIGURE C-8
 BEACH PLAN
 WEST DESTIN BEACH RESTORATION PROJECT
 OKALOOSA COUNTY, FLORIDA

PROJECT	C2007-078
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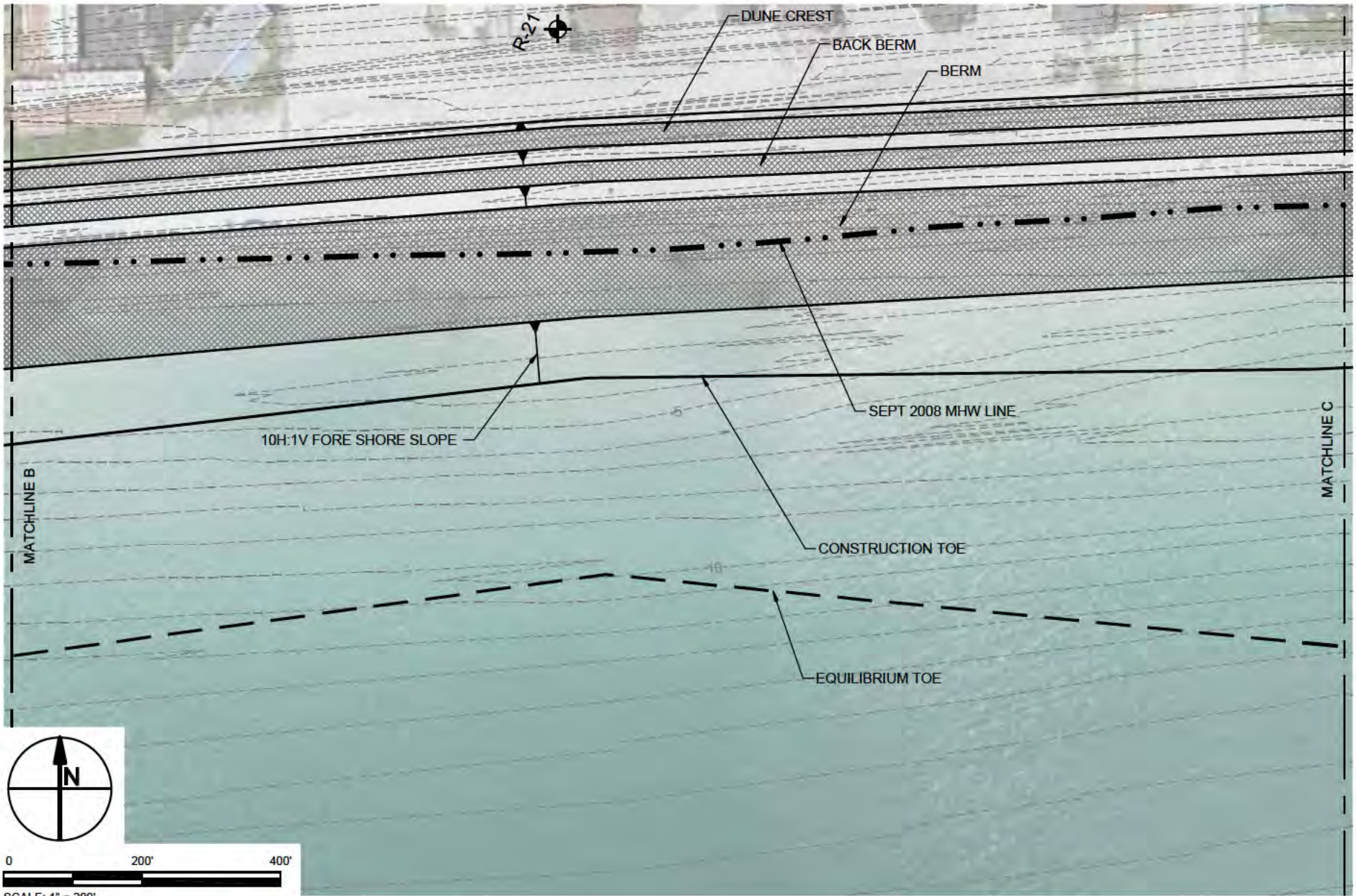


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FIGURE C-9
 BEACH PLAN
 WEST DESTIN BEACH RESTORATION PROJECT
 OKALOOSA COUNTY, FLORIDA

PROJECT	C2007-078
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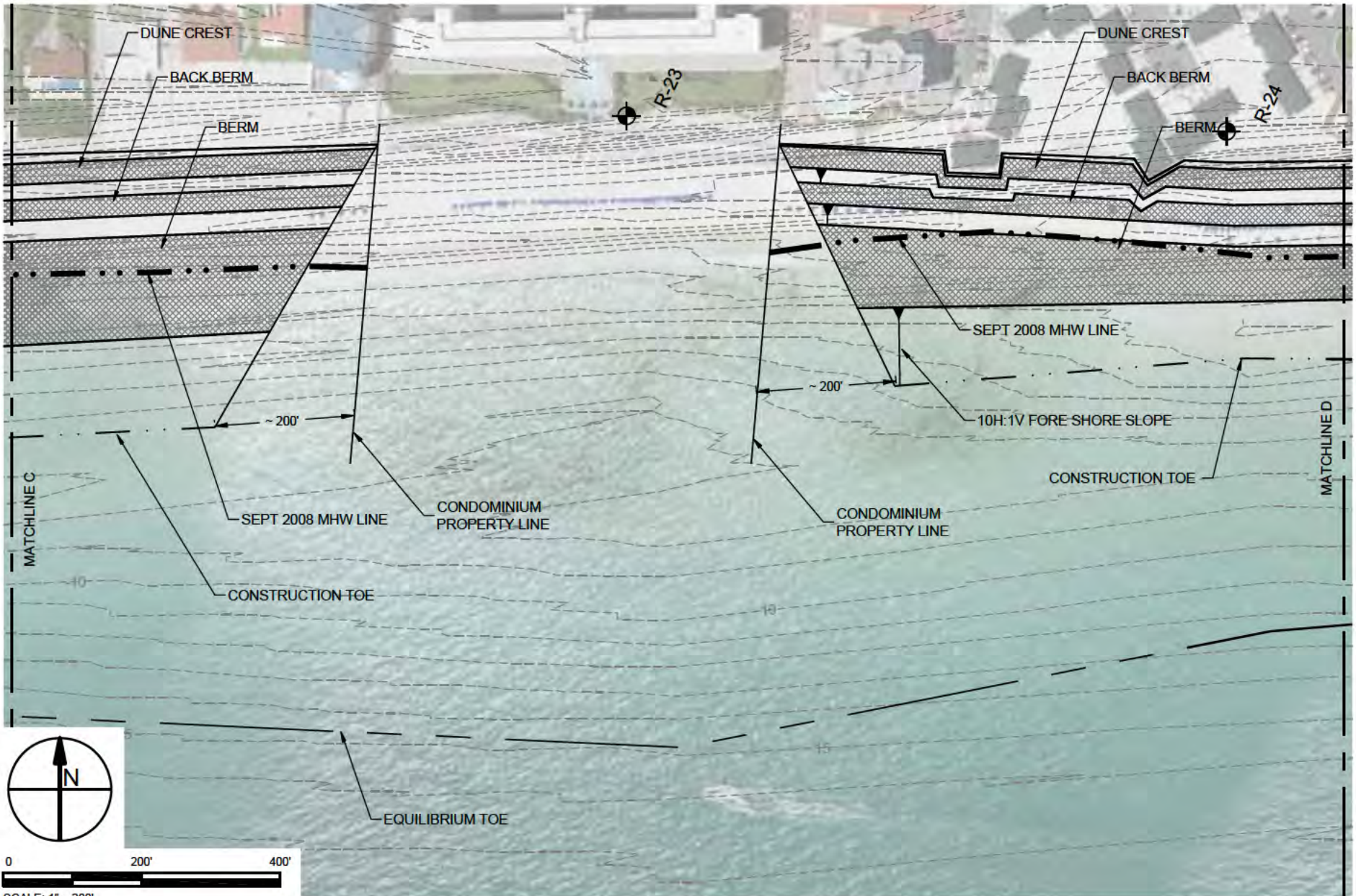



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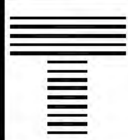
FIGURE C-10
 BEACH PLAN
 WEST DESTIN BEACH RESTORATION PROJECT
 OKALOOSA COUNTY, FLORIDA

PROJECT	C2007-078
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DATE	MAR 2009

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0 200' 400'
SCALE: 1" = 200'



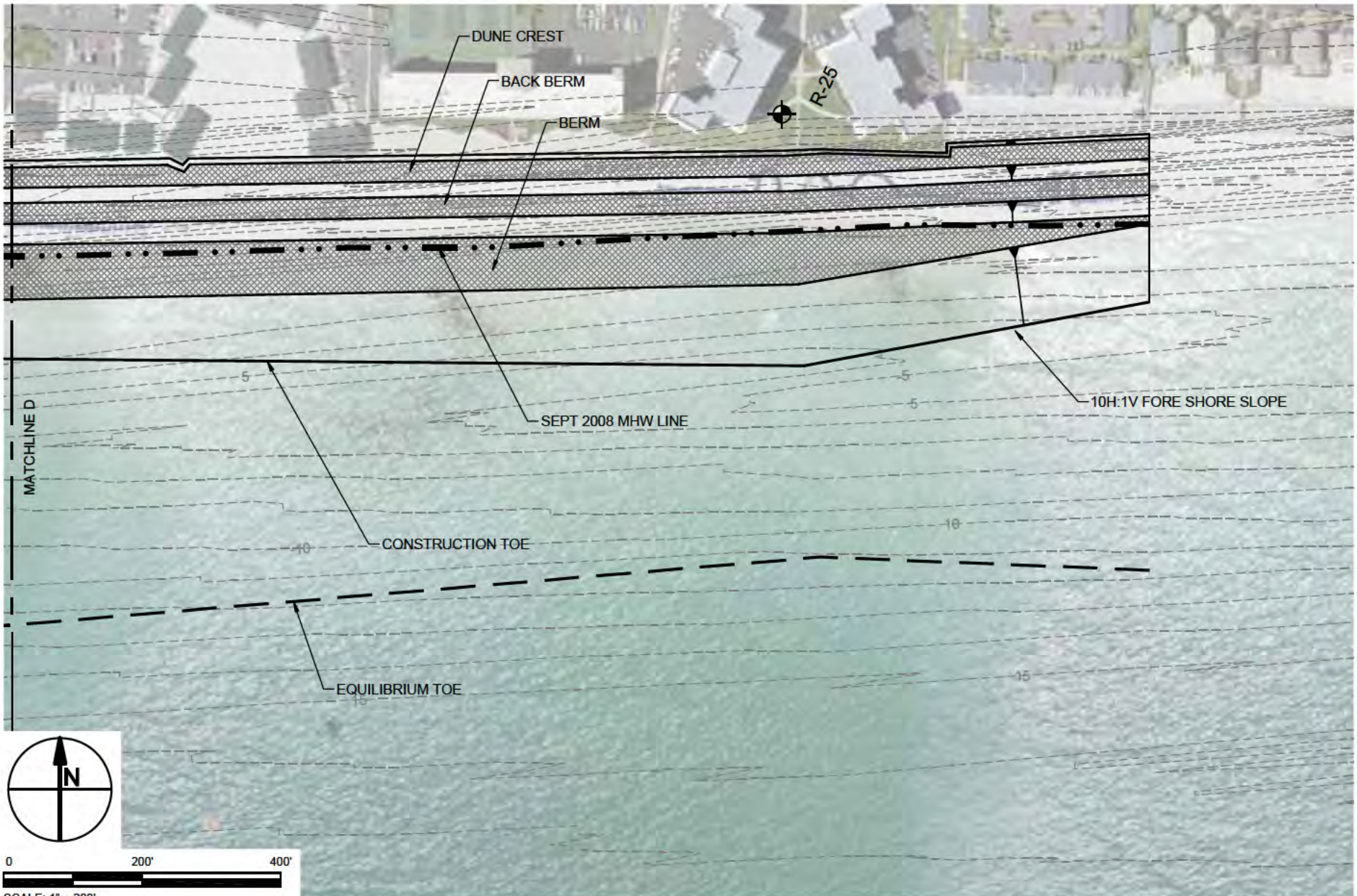
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FIGURE C-11
BEACH PLAN
WEST DESTIN BEACH RESTORATION PROJECT
OKALOOSA COUNTY, FLORIDA

PROJECT	C2007-078
DRAWN BY	AF
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DATE	MAR 2009

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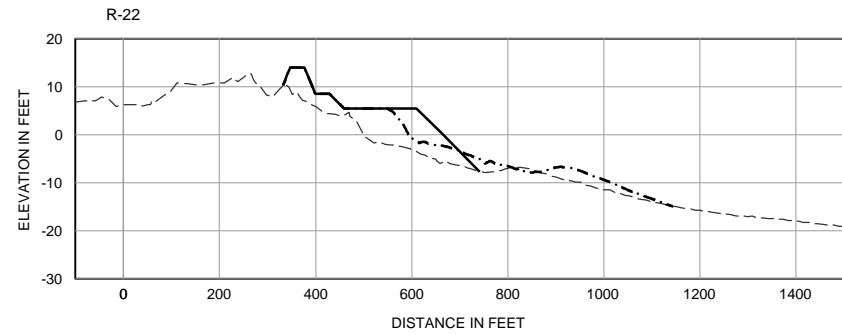
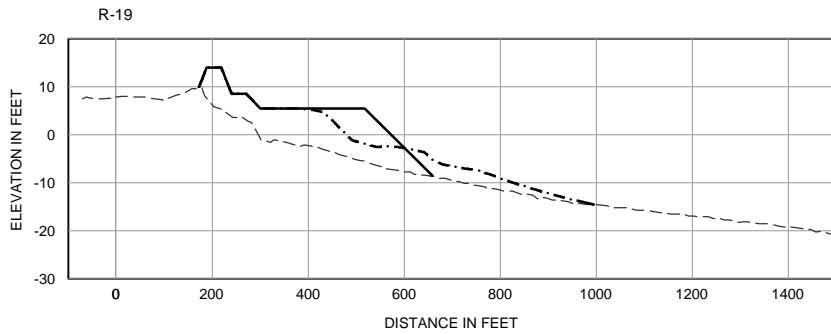
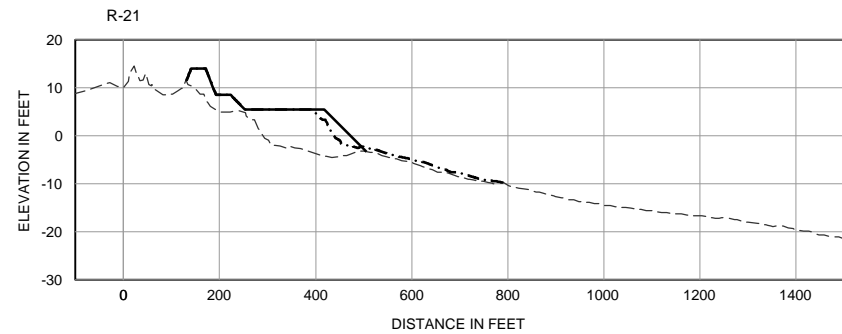
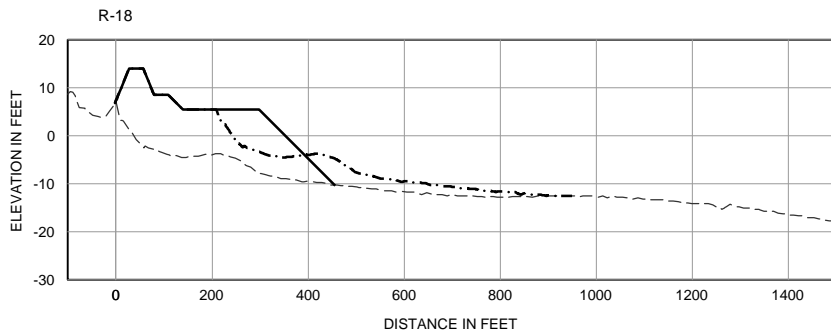
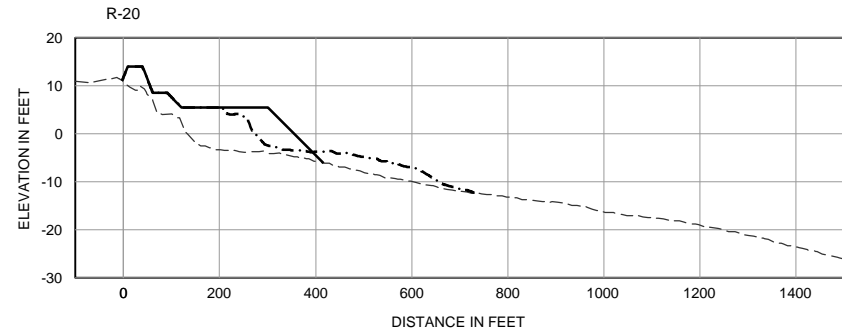
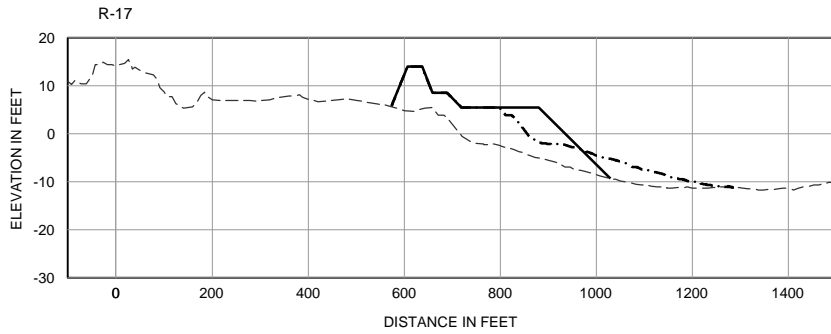



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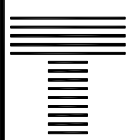
FIGURE C-12
 BEACH PLAN
 WEST DESTIN BEACH RESTORATION PROJECT
 OKALOOSA COUNTY, FLORIDA

PROJECT	C2007-078
DRAWN BY	AF
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DATE	MAR 2009

SEAL
 MICHAEL E. TRUDNAK, FL P.E. # 58200
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LEGEND	
---	EXISTING GRADE
—	FINISHED GRADE
- · - ·	EQUILIBRIUM GRADE

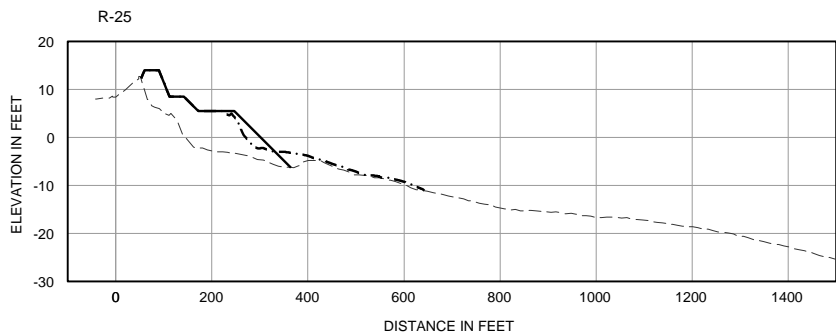
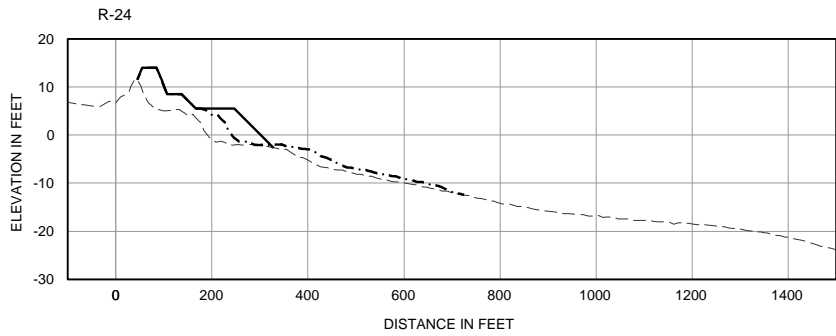


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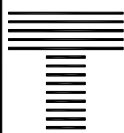
FIGURE C-13
 BEACH SECTIONS
 WEST DESTIN BEACH RESTORATION PROJECT
 OKALOOSA COUNTY, FLORIDA

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SEAL	
MICHAEL E. TRUDNAK P. L. P. E. # 58200	DATE



LEGEND	
---	EXISTING GRADE
—	FINISHED GRADE
- · -	EQUILIBRIUM GRADE



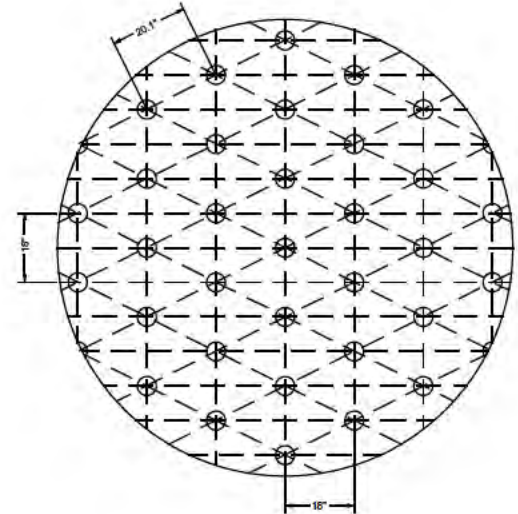
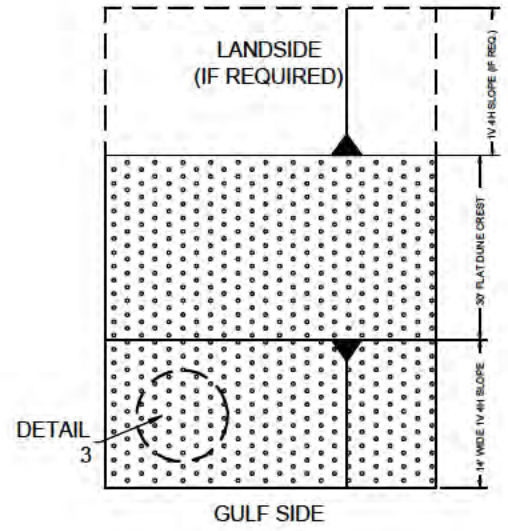
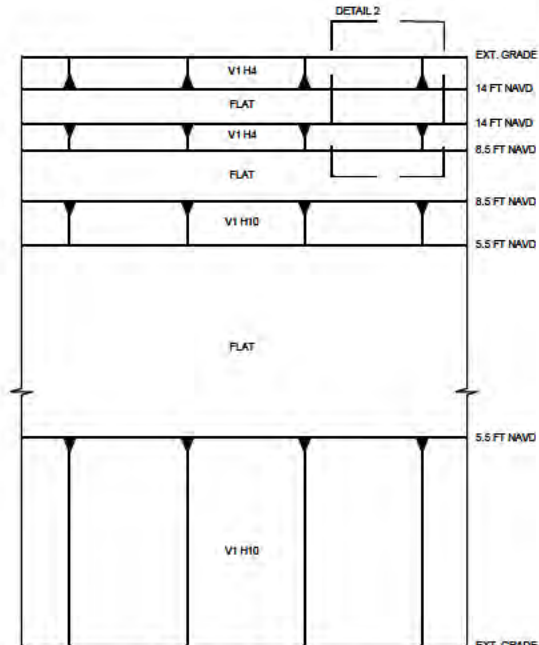
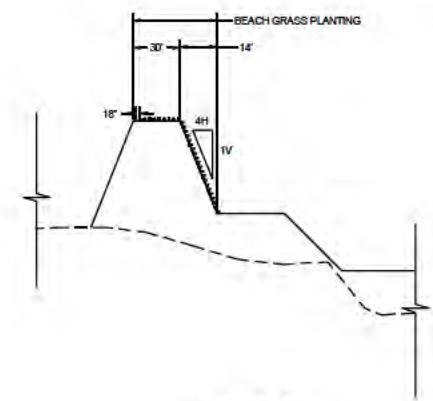
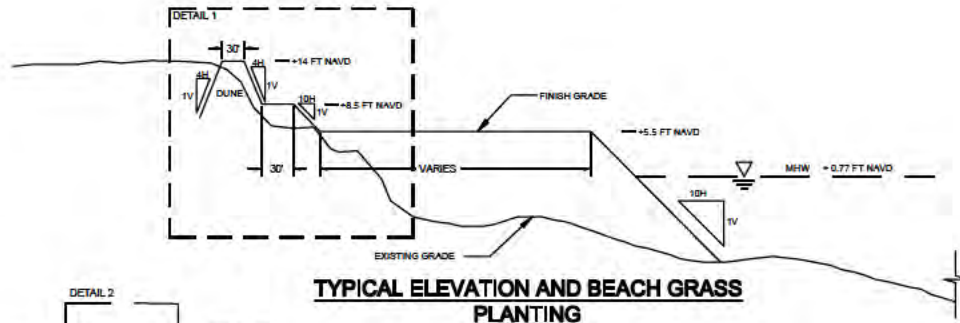
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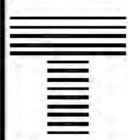
FIGURE C-14
 BEACH SECTIONS
 WEST DESTIN BEACH RESTORATION PROJECT
 OKALOOSA COUNTY, FLORIDA

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- 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" - 18" ABOVE THE ROOT BALL.
 4. PLANTS SHALL BE PLANTED 18" ON CENTER IN ROWS SPACED 18" 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 SECTION 02395 OF THE SPECIFICATIONS FOR ADDITIONAL PLANTING AND MAINTENANCE REQUIREMENTS.



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FIGURE C-15
DETAILS
WEST DESTIN BEACH RESTORATION PROJECT
OKALOOSA COUNTY, FLORIDA

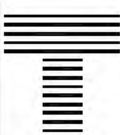
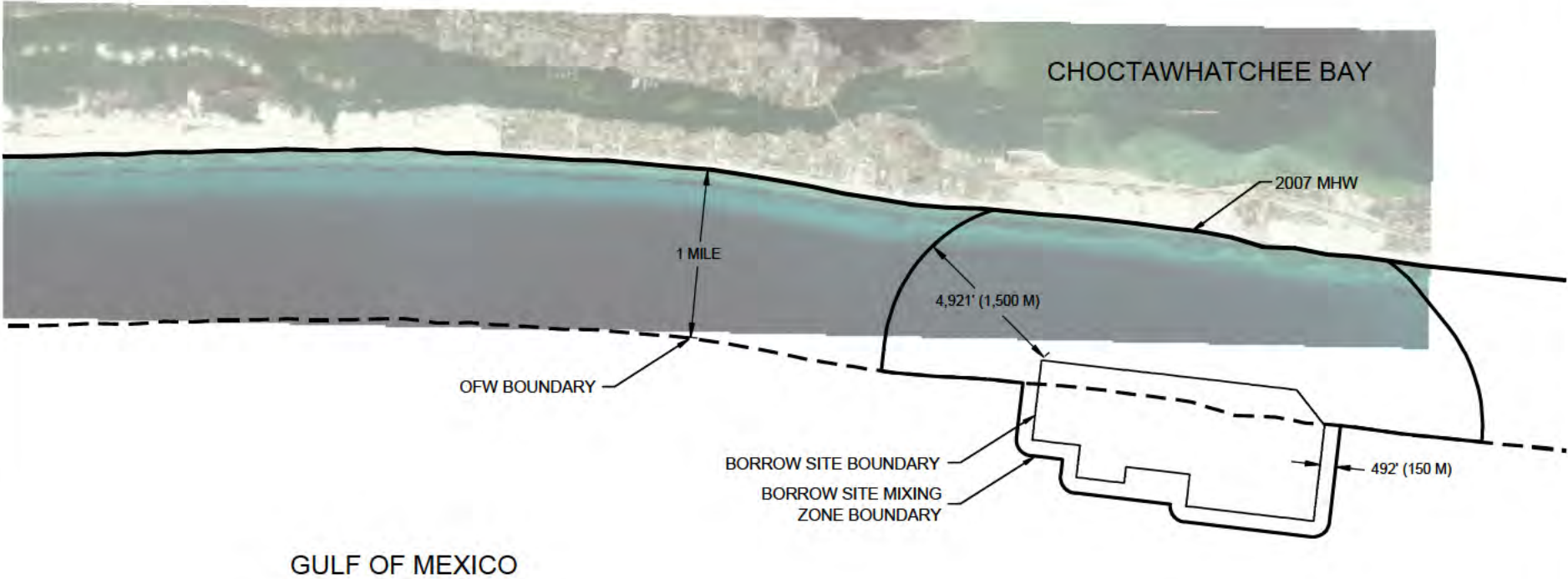
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NOTE: THE MIXING ZONE BOUNDARIES SHOWN REPRESENT THE MAXIMUM LIMITS. ACTUAL MIXING ZONE BOUNDARIES ARE MEASURED FROM THE POINT OF DISCHARGE



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FIGURE C-16
 BEACH AND BORROW SITE MIXING ZONE BOUNDARIES
 WEST DESTIN BEACH RESTORATION PROJECT
 OKALOOSA COUNTY, FLORIDA

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