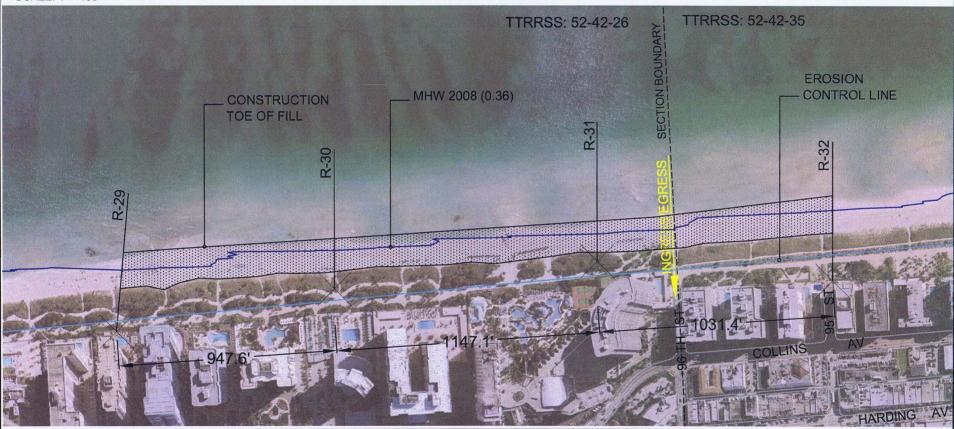


200FT 0 400FT

SCALE: 1"= 400'

COORDINATES				
MONUMENT	EASTING	NORTHING	AZIMUTH	ELEVATION
R-29	944714.68	568077.74	95°	7.54
R-30	944899.94	567132.35	90°	7.74
R31	945017.64	565988.02	90°	7.64
R-32	944935.28	564959.39	90°	10.38



NOTE:

- APPROXIMATE AMOUNT OF BEACH FILL = 89,700 CY BETWEEN NOV-DEC 08 SURVEY & ACOE TEMPLATE.
- 2. DATE OF AERIAL: 2007
- 3. ALL FILL IS TO TAKE PLACE WEST OF THE DUNE \ EROSION CONTROL LINE.
- 4. NO EXISTING DUNE VEGETATION WILL BE BURIED
- 5. AREA BETWEEN R27 AND R29 IS ALREADY PERMITTED UNDER PERMITS: FDEP: JCP 0233882-004-JM USACE: SAJ 2008-1648 (IP-INS)

MIAMI-DADE COUNTY DERM WATER MANAGEMENT DIVISION

701 NW 1st Court, 5th Floor. Miami, FL. 33136

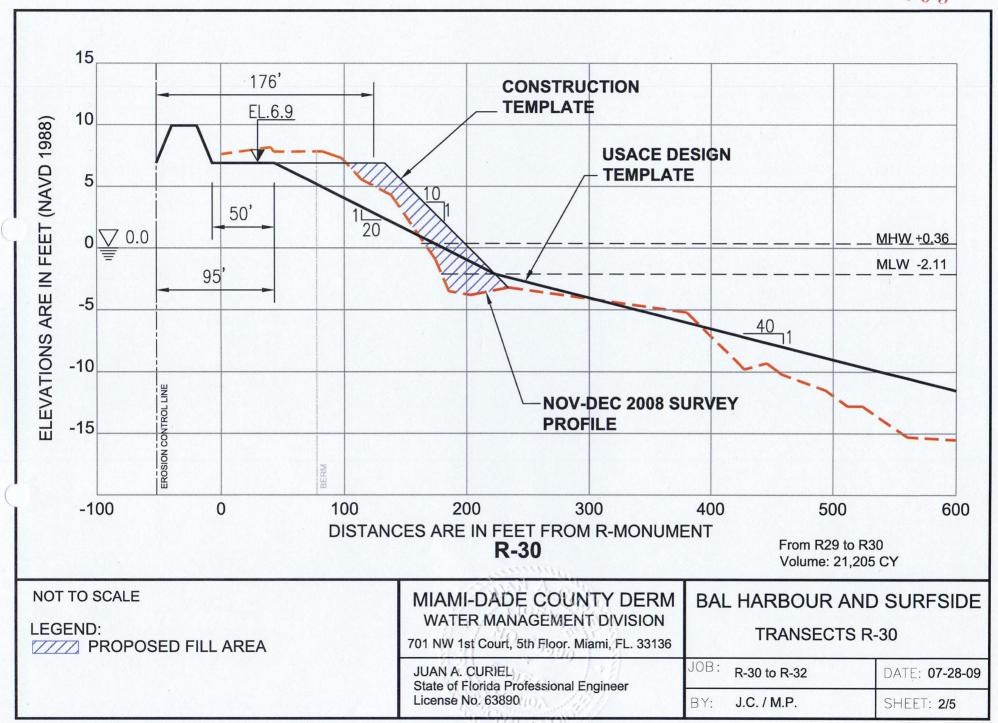
JUAN A. CURIEL State of Florida Professional Engineer License No. 63890

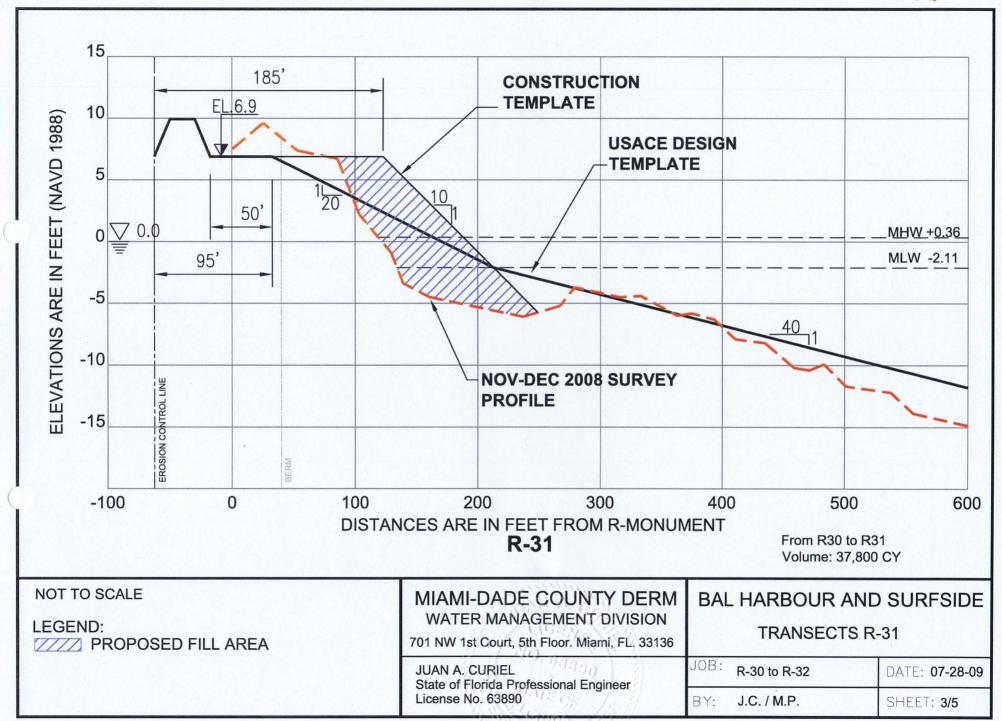
BAL HARBOUR AND SURFSIDE

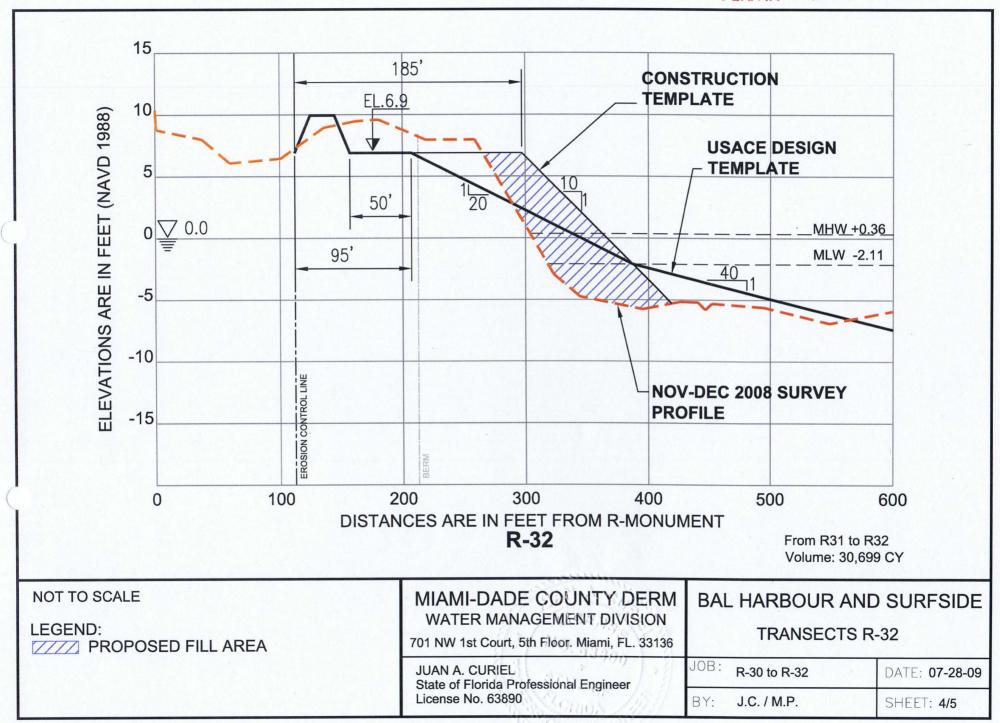
LOCATION MAP
PROPOSED RENOURISHMENT AREA

JOB: **R30 to R32**BY: **J.C. / M.P.**SHEET: **1/5**

P:\...\2009_0209_BeachRestoration_Survey_2008_Juan\2008_BalHarbour_SDI_R27_TO_R31\dwg\Permit_060409_juan/2008_Design_R30_R32_permit_plan_change.dwg







BAL HARBOUR AND SURFSIDE GENERAL NOTES

- 1. PERMIT SET-REVIEW CONSTRUCTION PLANS AND SPECIFICATIONS PRIOR TO COMMENCING CONSTRUCTION ACTIVITY.
- 2. TOPOGRAPHIC AND BATHYMETRIC SURVEY DATA WAS OBTAINED BY SEA DIVERSIFIED INC. (SDI) DURING FIELD WORK PERFORMED NOVEMBER-DECEMBER 2008.
- 3. THE PLANE COORDINATES AND BEARINGS SHOWN HEREON ARE IN FEET AND ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE (0901), TRANSVERSE MERCATOR PROJECTION, NORTH AMERICAN DATUM, 1983, ADJUSTED 1990 (NAD83-90) AND ALL CONTOURS AND ELEVATIONS ARE IN FEET RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM (NAVD88).
- 4. HORIZONTAL AND VERTICAL CONTROL FOR CONSTRUCTION FOR THIS PROJECT SHALL BE BASED ON FDEP SURVEY MONUMENTS AS FOUND IN MIAMI-DADE COUNTY, UTILIZING PLANE COORDINATES (NAD83-90) IN FEET AND ELEVATIONS UTILIZING (NAVD 88) IN FEET.
- 5. MEAN HIGH WATER (MHW) IS +0.36 NAVD; MEAN LOW WATER (MLW) IS -2.11 NAVD. TIDAL DATUM INFORMATION BASED ON NOS TIDE STATION 8723050 (OBTAINED FROM APPROVED PERMIT SET, CSI. MARCH 28, 2008).
- 6. SAND IS TO BE PLACED UTILIZING METHODS APPROVED BY LOCAL, STATE AND FEDERAL REGULATORY PERMITTING AGENCIES.
- 7. ALL SAND SHALL CONFORM TO THE SEDIMENT QA/QC PLAN, APPROVED BY THE FDEP BUREAU OF BEACHES AND COASTAL SYSTEMS ON JANUARY 12th, 2009.
- 8. ALL ACCESS AND STANGING AREAS WILL BE DETERMINED BY THE LOCAL MUNICIPALITY PRIOR TO CONSTRUCTION.
- 9. AT NO TIME WILL THE AMOUNT OF FILL TO BE PLACED EXCEED THE USACE DESIGN TEMPLATE.

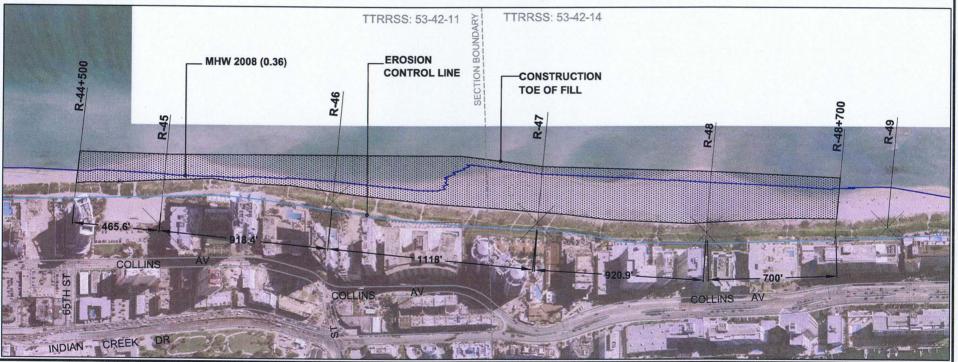
PERMIT # 233882005

MIAMI-DADE COUNTY DERM JUAN A. CURIEL BAL HARBOUR AND SURFSIDE WATER MANAGEMENT State of Florida **GENERAL NOTES** Professional Engineer DIVISION License No. 63890 JOB: R-30 to R-32 DATE: 05-09 701 NW 1st Court, 5th Floor MIAMI, FLORIDA 33136 BY: J.C. / M.P. SHEET: 5/5



	COORDINATES			
MONUMENT	EASTING	NORTHING	AZIMUTH	ELEVATION
R-45	945706.26	551090.99	95°	7.14
R-46	945841.3	550155.4	95°	10.25
R-47	945730.28	549042.89	95°	9.98
R-48	945672.42	548123.79	95°	9.43
R-48+700	945639.16	547424.03	95°	-

250FT 0 500FT SCALE: 1"= 500'



NOTE:

- APPROXIMATE AMOUNT OF BEACH FILL = 84570 CY
 BETWEEN NOV-DEC 08 SURVEY & ACOE TEMPLATE.
- 2. DATE OF AERIAL: 2007
- ALL FILL IS TO TAKE PLACE WEST OF THE DUNE \ EROSION CONTROL LINE.
- 4. NO EXISTING DUNE VEGETATION WILL BE BURIED
- 5. AREA BETWEEN R43 AND R44+500 IS ALREADY PERMITTED UNDER PERMITS: FDEP: JCP 0233882-004- JM USACE: SAJ 2008-1648 (IP-INS)

MIAMI-DADE COUNTY DERM WATER MANAGEMENT DIVISION

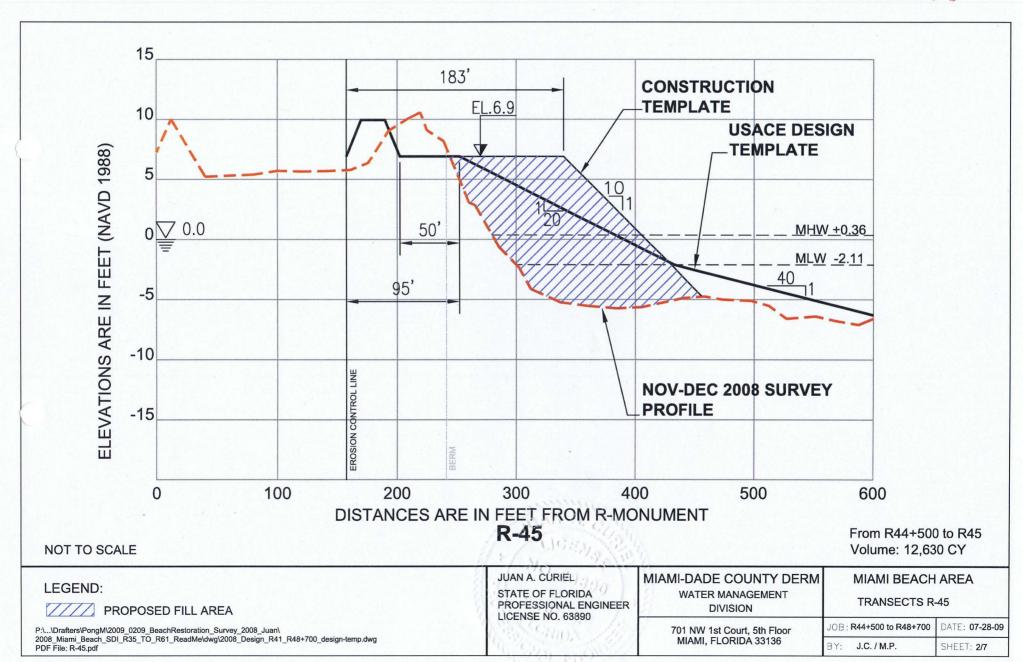
701 NW 1st Court, 5th Floor. Miami, FL. 33136

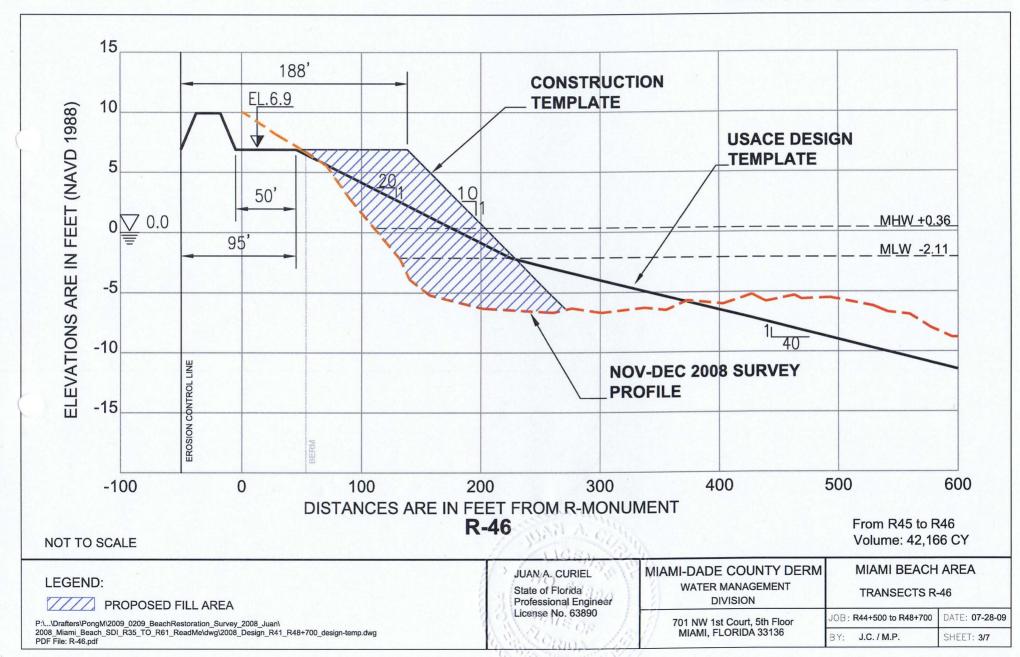
JUAN A. CURIEL State of Florida Professional Engineer License No. 63890

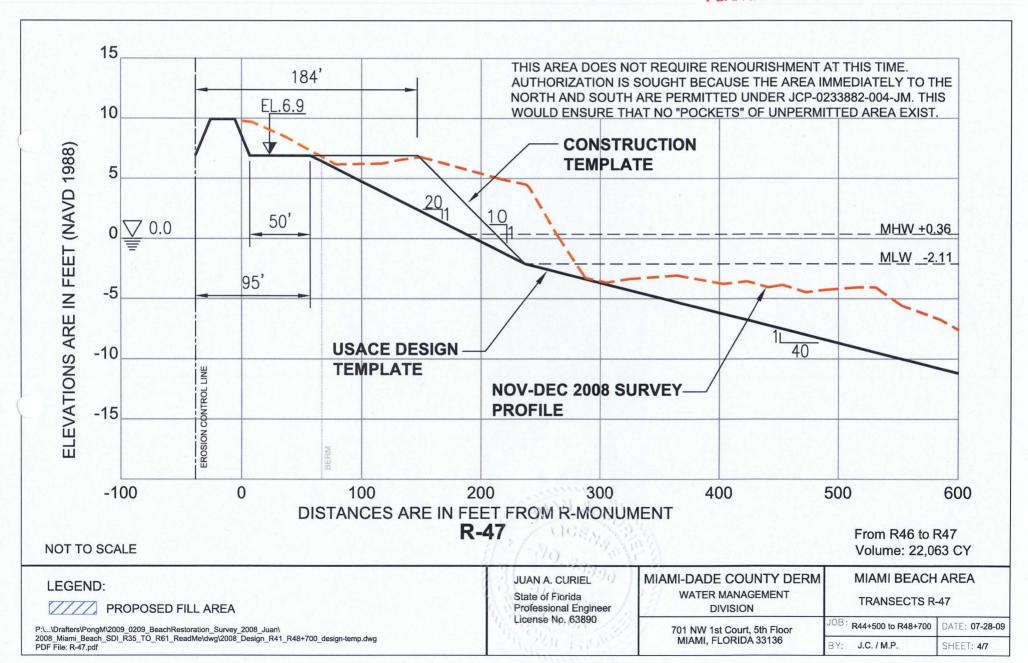
MIAMI BEACH

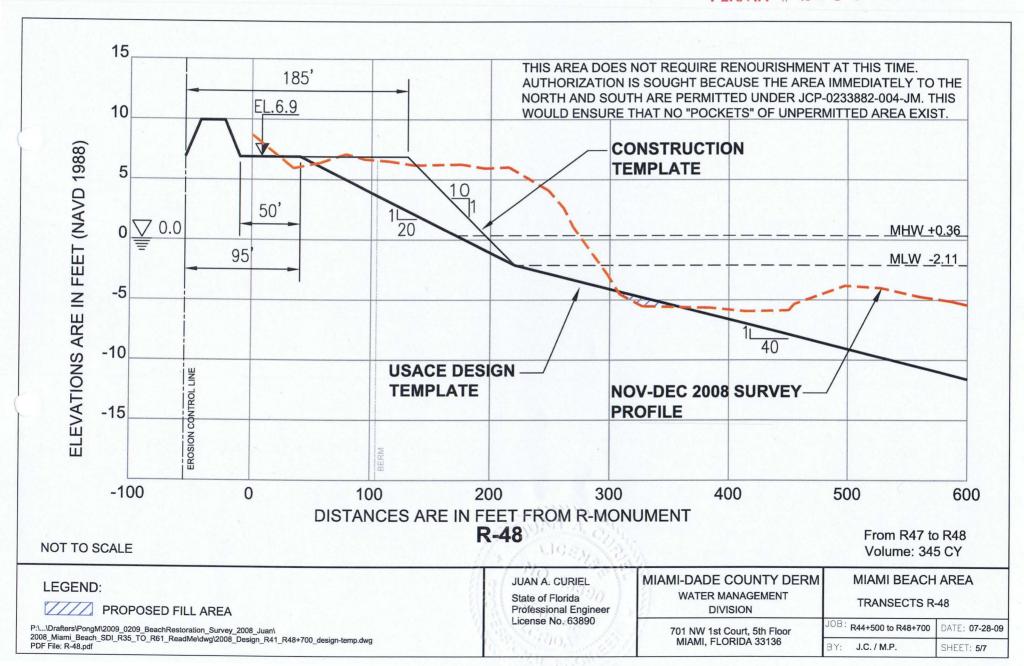
LOCATION MAP
PROPOSED RENOURISHMENT AREA

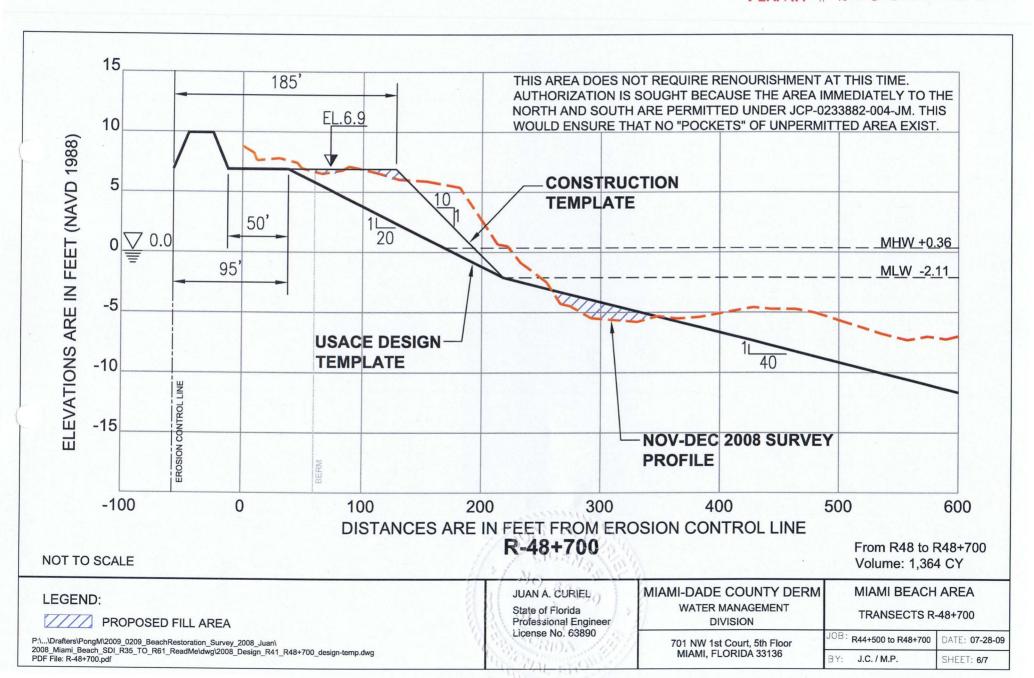
JOB: **R44+500 to R48+700** DATE: **07-28-09**BY: **J.C. / M.P.** SHEET: **1/7**











MIAMI BEACH GENERAL NOTES

- 1. PERMIT SET-REVIEW CONSTRUCTION PLANS AND SPECIFICATIONS PRIOR TO COMMENCING CONSTRUCTION ACTIVITY.
- 2. TOPOGRAPHIC AND BATHYMETRIC SURVEY DATA WAS OBTAINED BY SEA DIVERSIFIED INC. (SDI) DURING FIELD WORK PERFORMED NOVEMBER-DECEMBER 2008.
- 3. THE PLANE COORDINATES AND BEARINGS SHOWN HEREON ARE IN FEET AND ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE (0901), TRANSVERSE MERCATOR PROJECTION, NORTH AMERICAN DATUM, 1983, ADJUSTED 1990 (NAD83-90) AND ALL CONTOURS AND ELEVATIONS ARE IN FEET RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM (NAVD88).
- 4. HORIZONTAL AND VERTICAL CONTROL FOR CONSTRUCTION FOR THIS PROJECT SHALL BE BASED ON FDEP SURVEY MONUMENTS AS FOUND IN MIAMI-DADE COUNTY, UTILIZING PLANE COORDINATES (NAD83-90) IN FEET AND ELEVATIONS UTILIZING (NAVD 88) IN FEET.
- 5. MEAN HIGH WATER (MHW) IS +0.36 NAVD; MEAN LOW WATER (MLW) IS -2.11 NAVD. TIDAL DATUM INFORMATION BASED ON NOS TIDE STATION 8723050 (OBTAINED FROM APPROVED PERMIT SET, CSI. MARCH 28, 2008).
- 6. SAND IS TO BE PLACED UTILIZING METHODS APPROVED BY LOCAL, STATE AND FEDERAL REGULATORY PERMITTING AGENCIES.
- 7. ALL SAND SHALL CONFORM TO THE SEDIMENT QA/QC PLAN, APPROVED BY THE FDEP BUREAU OF BEACHES AND COASTAL SYSTEMS ON JANUARY 12th, 2009.
- 8. ALL ACCESS AND STANGING AREAS WILL BE DETERMINED BY THE LOCAL MUNICIPALITY PRIOR TO CONSTRUCTION.
- 9. AT NO TIME WILL THE AMOUNT OF FILL TO BE PLACED EXCEED THE USACE DESIGN TEMPLATE.

PERMIT # 233882005

JUAN A. CURIEL	MIAMI-DADE COUNTY DERM	MIAMI BEACH AREA	
State of Florida Professional Engineer	WATER MANAGEMENT DIVISION	GENERAL NOTES	
License No. 63890	701 NW 1st Court, 5th Floor MIAMI, FLORIDA 33136	JOB: R44+500 to R48+700	DATE: 07-28-09
		BY: J.C. / M.P.	SHEET: 7/7

RECEIVED

BUREAU OF BEACHES

200FT 0 400FAND COASTAL SYSTEMS

COORDINATES				
MONUMENT	EASTING	NORTHING	AZIMUTH	ELEVATION
R-12	945425.47	585794.21	95°	7.70
R-13	945377.1	584780.36	95°	7.34
R14	945239.93	583666.95	95°	9.34
R-15	945178.41	582759.98	95°	8.14

EROSION CONTROL LINE (DUNE)	TTRRSS: 52-42-11	MHW 2008 (0.36)
	CONSTRUCTION TOE OF FILL	
R-12	R-13	4
		R-15
1015'	118.7	908.9
COLLING	AV E	S
NOTE	22, 174	STATE OF THE STATE

NOTE:

- APPROXIMATE AMOUNT OF BEACH FILL = 51815 CY BETWEEN NOV-DEC 08 SURVEY & ACOE TEMPLATE.
- 2. DATE OF AERIAL: 2007

SCALE: 1"= 400'

- 3. ALL FILL IS TO TAKE PLACE WEST OF THE DUNE \ EROSION CONTROL LINE.
- 4. NO EXISTING DUNE VEGETATION WILL BE BURIED
- 5. AREA BETWEEN R7 AND R12 IS ALREADY PERMITTED UNDER PERMITS: FDEP: JCP 0233882-004-JM USACE: SAJ 2008-1648 (IP-INS)

MIAMI-DADE COUNTY DERM WATER MANAGEMENT DIVISION

701 NW 1st Court, 5th Floor, Miami, FL. 33136

JUAN A. CURIEL
State of Florida Professional Engineer
License No. 63890

SUNNY ISLES

LOCATION MAP
PROPOSED RENOURISHMENT AREA

JOB: R12 to R15 DATE: 07-28-09

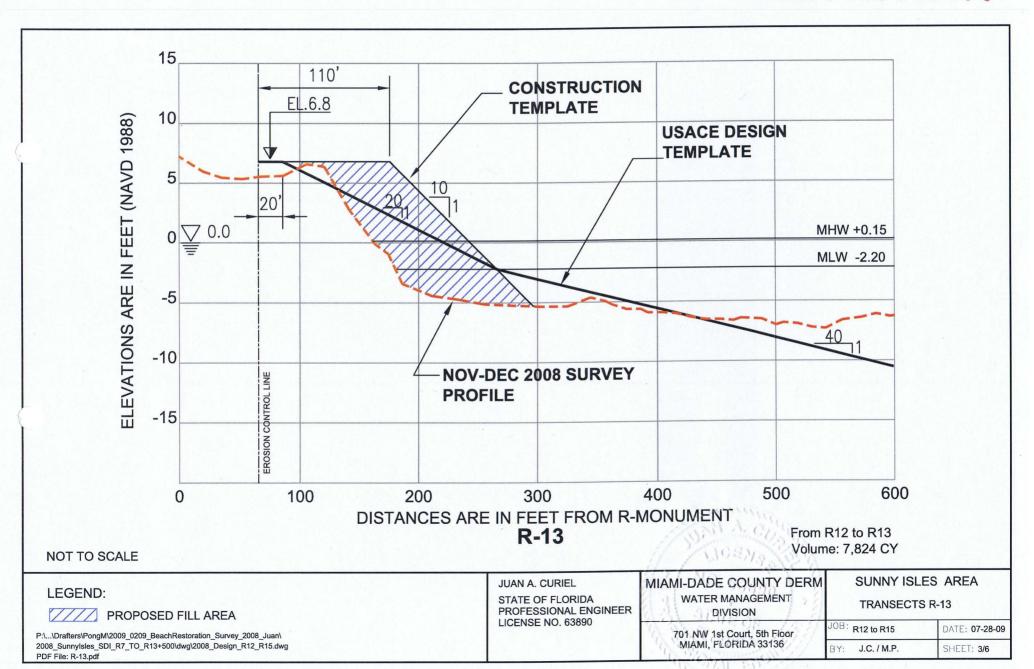
BY: J.C. / M.P. SHEET: 1/6

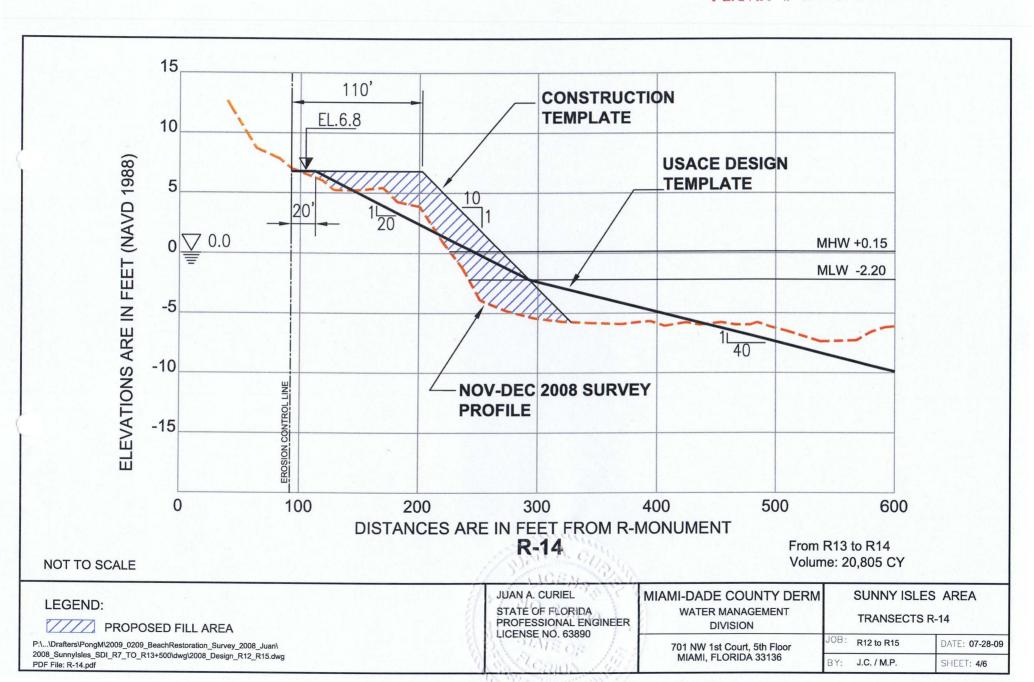
GENERAL NOTES

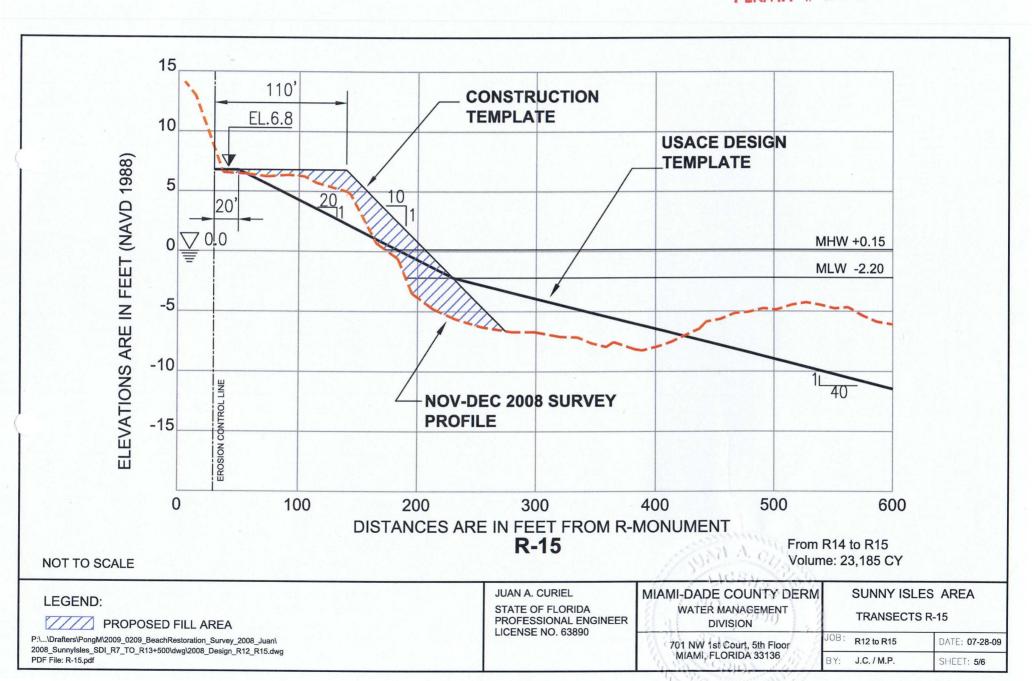
- PERMIT SET-REVIEW CONSTRUCTION PLANS AND SPECIFICATIONS PRIOR TO COMMENCING CONSTRUCTION ACTIVITY.
- 2. TOPOGRAPHIC AND BATHYMETRIC SURVEY DATA WAS OBTAINED BY SEA DIVERSIFIED INC. (SDI) DURING FIELD WORK PERFORMED NOVEMBER-DECEMBER 2008.
- 3. THE PLANE COORDINATES AND BEARINGS SHOWN HEREON ARE IN FEET AND ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE (0901), TRANSVERSE MERCATOR PROJECTION, NORTH AMERICAN DATUM, 1983, ADJUSTED 1990 (NAD83-90) AND ALL CONTOURS AND ELEVATIONS ARE IN FEET RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM (NAVD88).
- 4. HORIZONTAL AND VERTICAL CONTROL FOR CONSTRUCTION FOR THIS PROJECT SHALL BE BASED ON FDEP SURVEY MONUMENTS AS FOUND IN MIAMI-DADE COUNTY, UTILIZING PLANE COORDINATES (NAD83-90) IN FEET AND ELEVATIONS UTILIZING (NAVD 88) IN FEET.
- MEAN HIGH WATER (MHW) IS +0.15 NAVD; MEAN LOW WATER (MLW) IS -2.20 NAVD. TIDAL DATUM INFORMATION BASED ON NOS TIDE STATION 8723050 (OBTAINED FROM APPROVED PERMIT SET, CSI. MARCH 28, 2008).
- SAND IS TO BE PLACED UTILIZING METHODS APPROVED BY LOCAL, STATE AND FEDERAL REGULATORY PERMITTING AGENCIES.
- ALL SAND SHALL CONFORM TO THE SEDIMENT QA/QC PLAN, APPROVED BY THE FDEP BUREAU OF BEACHES AND COASTAL SYSTEMS ON JANUARY 12th, 2009.
- 8. ALL ACCESS AND STANGING AREAS WILL BE DETERMINED BY THE LOCAL MUNICIPALITY PRIOR TO CONSTRUCTION.
- 9. AT NO TIME WILL THE AMOUNT OF FILL TO BE PLACED EXCEED THE USACE DESIGN TEMPLATE.
- 10. THE PROPOSED TOE OF FILL DEPICTED ON THE DRAWINGS IS THEORETICAL. IT IS BASED ON THE ASSUMPTION THAT ALL SAND IS PLACED IN A SINGLE EVENT. FINAL LOCATION OF PROPOSED TOE OF FILL CAN ONLY BE DETERMINED THROUGH AS-BUILT AND MONITORING SURVEYS PERFORMED POST NOURISHMENT.

MIAMI-DADE COUNTY I WATER MANAGEMENT DIVISION	OCITIVI IOLLO AILLA
701 NW 1st Court, 5th Floo	or JOB: R12 to R15 DATE: 08-04-10
MIAMI, FLORIDA 33136	BY: JC/MM SHEET: 2/6

PERMIT # 233882005







SUNNY ISLES GENERAL NOTES

- 1. PERMIT SET-REVIEW CONSTRUCTION PLANS AND SPECIFICATIONS PRIOR TO COMMENCING CONSTRUCTION ACTIVITY.
- 2. TOPOGRAPHIC AND BATHYMETRIC SURVEY DATA WAS OBTAINED BY SEA DIVERSIFIED INC. (SDI) DURING FIELD WORK PERFORMED NOVEMBER-DECEMBER 2008.
- 3. THE PLANE COORDINATES AND BEARINGS SHOWN HEREON ARE IN FEET AND ARE BASED ON THE FLORIDA STATE PLANE COORDINATE SYSTEM, EAST ZONE (0901), TRANSVERSE MERCATOR PROJECTION, NORTH AMERICAN DATUM, 1983, ADJUSTED 1990 (NAD83-90) AND ALL CONTOURS AND ELEVATIONS ARE IN FEET RELATIVE TO THE NORTH AMERICAN VERTICAL DATUM (NAVD88).
- 4. HORIZONTAL AND VERTICAL CONTROL FOR CONSTRUCTION FOR THIS PROJECT SHALL BE BASED ON FDEP SURVEY MONUMENTS AS FOUND IN MIAMI-DADE COUNTY, UTILIZING PLANE COORDINATES (NAD83-90) IN FEET AND ELEVATIONS UTILIZING (NAVD 88) IN FEET.
- 5. MEAN HIGH WATER (MHW) IS +0.15 NAVD; MEAN LOW WATER (MLW) IS -2.20 NAVD. TIDAL DATUM INFORMATION BASED ON NOS TIDE STATION 8723050 (OBTAINED FROM APPROVED PERMIT SET, CSI. MARCH 28, 2008).
- 6. SAND IS TO BE PLACED UTILIZING METHODS APPROVED BY LOCAL, STATE AND FEDERAL REGULATORY PERMITTING AGENCIES.
- 7. ALL SAND SHALL CONFORM TO THE SEDIMENT QA/QC PLAN, APPROVED BY THE FDEP BUREAU OF BEACHES AND COASTAL SYSTEMS ON JANUARY 12th, 2009.
- 8. ALL ACCESS AND STANGING AREAS WILL BE DETERMINED BY THE LOCAL MUNICIPALITY PRIOR TO CONSTRUCTION.
- 9. AT NO TIME WILL THE AMOUNT OF FILL TO BE PLACED EXCEED THE USACE DESIGN TEMPLATE.

PERMIT # 233882005

MIAMI-DADE COUNTY DERM SUNNY ISLES AREA JUAN A. CURIEL WATER MANAGEMENT State of Florida **GENERAL NOTES** Professional Engineer DIVISION License No. 63890 JOB: R12 to R15 DATE: 07-28-09 701 NW 1st Court, 5th Floor MIAMI, FLORIDA 33136 SHEET: 6/6 BY: J.C. / M.P.