

October 16, 2015

Ms. Barbara J. Conmy, PWS  
South Florida Water Management District  
Environment Resource Permitting Bureau  
Natural Resource Management Section  
3301 Gun Club Road  
West Palm Beach, Florida 33406



Reference: **Miami Woman's Club Seawall and Baywalk**  
**SFWMD Permit No. 13-05394-P**  
**RER-DERM Permit No. CLI-2012-0265**  
**Folio #01-3231-004-0030**

Dear Ms. Conmy,

As a follow up to our e-mail correspondence dated September 9, 2015 for the above referenced project, please accept our request to modify the above referenced permit with the addition of rip-rap at the base of the existing seawall. Attached for your review and approval are the revised plan view and cross section showing rip-rap details, including length, width and height. The requested turbidity curtain is included on the Engineering Plan (Sheet No. 4). Notes detailing acceptable rip-rap material and the method of installation are provided on the Sections and Details (Sheet No. S-6).

Also attached is a copy of the wire transfer in the amount of \$250.00 which occurred on October 13, 2015 from the City of Miami to the South Florida Water Management District.

Should you have any questions or require additional information, please contact me at (305) 670-2350 or via e-mail at [czavatsky@bcceng.com](mailto:czavatsky@bcceng.com). Thank you.

Sincerely,  
**BCC Engineering, Inc.**

A handwritten signature in blue ink, appearing to read 'Chris Zavatsky', is written over a light blue horizontal line.

**Christopher A. Zavatsky, P.E.**  
Project Manager

Attachments

cc: Lourdes Barrelli – RER-DERM  
Orlando Misas – City of Miami

CAZ/jjbw

Batch Control Total

Batch Actual Total



Operating Unit	Customer Taxpayer ID	Type	PO Number	Trading Pa	Supplier Num	Supplier Site	Invoice Date	Invoice Num	Invoice
City of Miami		Direct Pay		South Flor	7398	WEST PALM	09-FEB-2010	B30588.01	USD
City of Miami		Standard		South Flor	7398	WEST PALM	11-SEP-2015	13-05394-P	USD
City of Miami		Direct Pay		South Flor	7398	WEST PALM	22-MAR-2011	B-30588.02	USD

1 General

2 Lines

3 Holds

4 View Payments

5 Scheduled Payments

6 View Prepayment Applications

Summary

Items	250.00
Retainage	
Prepayments Applied	
Withholding	
Subtotal	250.00
Tax	0.00
Freight	
Miscellaneous	
<b>Total</b>	<b>250.00</b>

Amount Paid

USD 250.00

Status

Status	Validated
Accounted	Yes
Approval	Workflow Approved
Holds	0
Scheduled Payment Holds	0

Description

MIAMI WOMAN'S CLUB ENVIRONMENTAL PE

Payment Method	Document Num	Payment Date	GL Date	Void	Payment Amount	Discount Taken	[ ]
Check	1188030	13-OCT-2015	13-OCT-2015	<input type="checkbox"/>	250.00		
				<input type="checkbox"/>			
				<input type="checkbox"/>			
				<input type="checkbox"/>			
				<input type="checkbox"/>			

Payment Overview

**City Officials:**

**Mayor**

Tomas P. Regalado

**Commissioner**

Wifredo (Willy) Gort

**Commissioner**

Marc Sarnoff

**Commissioner**

Frank Carollo

**Commissioner**

Francis Suarez

**Commissioner**

Keon Hardemon

**City Manager**

Daniel J. Alfonso

**City Attorney**

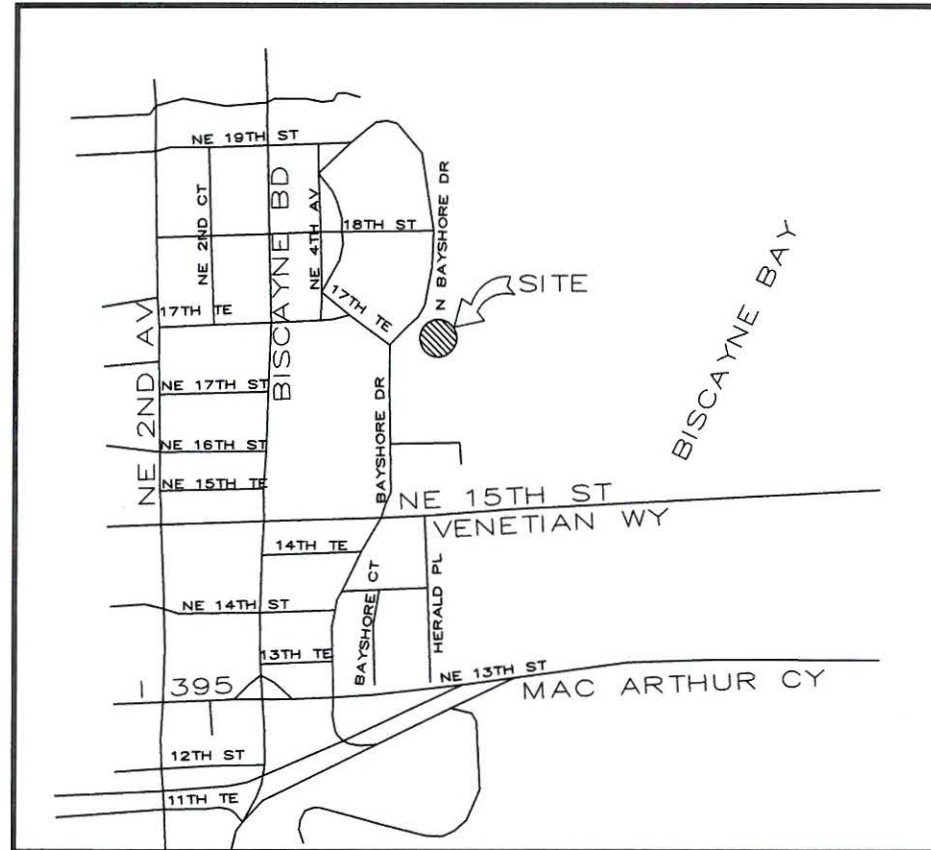
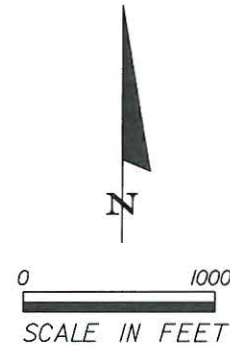
Victoria Mendez

**City Clerk**

Todd B. Hannon

*CITY OF MIAMI*  
*CAPITAL IMPROVEMENTS PROGRAM*

JEOVANNY RODRIGUEZ, P.E. DIRECTOR  
PROJECT No. B-30731  
MIAMI WOMAN'S CLUB  
SEAWALL & BAYWALK  
CONSTRUCTION PLANS



**INDEX OF SHEETS**

SHEET NO.	SHEET DESCRIPTION
1	KEY SHEET
2	SUMMARY OF QUANTITIES
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4	ENGINEERING PLAN
5	AMMENITIES PLAN
6 & 7	ENGINEERING DETAILS
S-1	STRUCTURAL NOTES
S-2	KEY PLAN
S-3 to S-5	PLAN SHEETS
S-6 & S-7	SECTIONS & DETAILS
S-8	CONCRETE REPAIR DETAILS

GOVERNING STANDARDS AND SPECIFICATIONS:  
- FLORIDA DEPARTMENT OF TRANSPORTATION,  
DESIGN STANDARDS DATED 2010,  
AND STANDARD SPECIFICATIONS FOR ROAD AND  
BRIDGE CONSTRUCTION DATED 2010,  
AS AMENDED BY CONTRACT DOCUMENTS.  
- CITY OF MIAMI ENGINEERING STANDARDS FOR  
DESIGN AND CONSTRUCTION DATED DECEMBER 2010.

CITY OF MIAMI PROJECT MANAGER: ORLANDO MISAS

CITY OF MIAMI CONSTRUCTION MANAGER: ERIC RUSH, P.E.

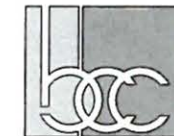
**CIVIL SHOP DRAWINGS  
TO BE SUBMITTED TO:**

Christopher A. Zavatsky, P.E.  
BCC Engineering, Inc.  
7300 N Kendall Drive, Suite 400  
Miami, Florida 33156  
Phone: (305) 670-2350  
Fax: (305) 670-2351

**STRUCTURAL SHOP DRAWINGS  
TO BE SUBMITTED TO:**

Steve Goldstein, P.E.  
BCC Engineering, Inc.  
7300 N Kendall Drive, Suite 400  
Miami, Florida 33156  
Phone: (305) 670-2350  
Fax: (305) 670-2351

**PLANS PREPARED BY:**



engineering

7300 N Kendall Drive, Suite 400  
Miami, Florida 33156  
Phone: (305) 670-2350  
Fax: (305) 670-2351

Certificate of Authorization No. 7184

100% SUBMITTAL



NOTE: THE SCALE OF THESE PLANS MAY  
HAVE CHANGED DUE TO REPRODUCTION.

ROADWAY PLANS  
ENGINEER OF RECORD: CHRISTOPHER A. ZAVATSKY, P.E.

FLORIDA LICENSE No.: 76885

SHEET  
NO.

1



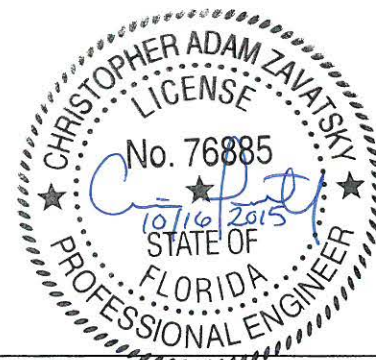
ITEM	PAY ITEM	DESCRIPTION	UNITS	QUANTITY
1	101-1	MOBILIZATION	LS	1
2	104-10-3	SILT FENCE	LF	331
3	104-11	FLOATING TURBIDITY BARRIER	LF	175
4	104-18	INLET PROTECTION SYSTEM	EA	2
5	110-1-1	CLEARING AND GRUBBING	AC	0.084
6	120-6	EMBANKMENT (FILL TO REGRADE GREEN AREAS ALONG WALKWAY)	CY	9
7	425-2-101	HYDRO INTERNATIONAL - MODEL 4-FT DOWNSTREAM DEFENDER	EA	1
8	425-10	YARD DRAIN - NYLOPLAST (8")	EA	11
9	425-10	DRAIN BASIN - NYLOPLAST (12")	EA	1
10	430-175-112	PIPE CULV (OPT MATL)(ROUND)(8") (ALL PIPE TO BE PVC)	LF	200
11	430-175-112	PIPE CULV (OPT MATL)(ROUND)(10") (ALL PIPE TO BE HDPE)	LF	33
12	436-1-2	TRENCH DRAIN (ZURN Z-886 OR APPROVED EQUAL)	LF	8
13	455-34-2	PRESTRESSED CONCRETE PILING, 14" SQ	LF	48
14	515-2-319	PEDESTRIAN RAILING	LF	140
15	520-2-4	CONCRETE WALL	LF	144
16	550-10-929	FENCING (ALUMINUM PICKET FENCE)	LF	144
17		5' WIDE ALUMINUM SWING GATE	EA	1
18	570-1-2	PERFORMANCE TURF, SOD	SY	120
19	580-1-2	LANDSCAPE COMPLETE (CABBAGE PALM OR EQUAL)	EA	14
20		SEAWALL DEMOLITION	SF	650
21		SEAWALL REPAIR	SF	150
22		RIVER ROCK	SF	510
23		CAST-IN-PLACE CONCRETE	CY	212
24	530-2	RIP-RAP	LF	150
25		FLOOD PANEL	EA	1
26	580-332-25	TREE REMOVAL (>48")	EA	8
27	715-511-115	LIGHT POLE COMPLETE SPECIAL DESIGN (15' H), F&I	EA	5
28	721-74-1	TRASH RECEPTACLE (AS PER CITY OF MIAMI GREENWAY STANDARDS)	EA	2
29	721-75-1	BENCH (AS PER CITY OF MIAMI GREENWAY STANDARDS)	EA	4

PAY ITEM NOTES:

PAY ITEMS INCLUDES ESTIMATED QUANTITY CONTINGENT UPON FIELD CONDITIONS AND MAY BE INCREASED OR DECREASED AS DIRECTED BY THE ENGINEER.

CLEARING AND GRUBBING INCLUDES REMOVAL OF EXISTING PAVEMENT, MISCELLANEOUS CONCRETE (SEAWALL DEMOLITION), VEGETATION, TREES AND DEBRIS TO BE DISPOSED OF IN LEGAL AREAS PROVIDED BY THE CONTRACTOR. INCLUDES THE COST OF CLEANING-OUT ALL EXISTING DRAINAGE STRUCTURES WHICH ARE TO REMAIN WITHIN THE LIMITS OF CONSTRUCTION.

425-2-101 THIS PAY ITEM SHALL INCLUDE FURNISHING AND INSTALLING COMPLETE HYDRODYNAMIC DEVICE AS SPECIFIED IN THE PLANS (HYDRO INTERNATIONAL - MODEL 4-FT DIAMETER FIRST DEFENSE). INSTALLATION OF HYDRODYNAMIC DEVICES SHALL COMPLY WITH THE MANUFACTURER RECOMMENDATIONS AND SPECIFICATIONS AND WITH FDOT SPECIFICATIONS, SECTION 425 FOR INSTALLATION OF MANHOLES.



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**CITY OF MIAMI**  
**CAPITAL IMPROVEMENTS PROGRAM**  
 PROJECT NAME: MIAMI WOMAN'S CLUB SEAWALL & BAYWALK  
 PROJECT ID: B-30731

**SUMMARY OF QUANTITIES**

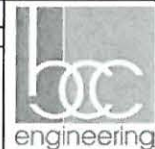
SHEET NO.  
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REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



GENERAL NOTES

1. B.M. DATA AND ELEVATION ARE CITY OF MIAMI DATUM UNLESS OTHERWISE NOTED.
2. ANY BENCH MARK MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED AND PROPERLY REFERENCED BY A REGISTERED LAND SURVEYOR IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS OF THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS PRIOR TO BEGINNING WORK AT THE SITE. IF ANY MONUMENT IS IN DANGER OF DAMAGE, THE PROJECT ENGINEER SHALL NOTIFY THE CITY OF MIAMI SURVEYOR, DEPARTMENT OF PUBLIC WORKS, (305) 416-1200.
3. ALL PUBLIC LAND CORNERS AND MONUMENTS WITHIN THE LIMITS OF CONSTRUCTION ARE TO BE PROTECTED BY THE CONTRACTOR AS FOLLOWS: CORNERS AND CITY MONUMENTS IN CONFLICT WITH THE WORK AND IN DANGER OF BEING DAMAGED, DESTROYED, OR COVERED SHALL BE PROPERLY REFERENCED BY A REGISTERED-LAND SURVEYOR IN ACCORDANCE WITH THE MINIMUM TECHNICAL STANDARDS OF THE FLORIDA BOARD OF PROFESSIONAL LAND SURVEYORS PRIOR TO BEGINNING WORK AT THE SITE. THE CONTRACTOR SHALL RETAIN THE LAND SURVEYOR TO REFERENCE, AND RESTORE UPON COMPLETION OF THE WORK, ALL SUCH CORNERS AND MONUMENTS AND SHALL FURNISH TO CITY OF MIAMI SURVEYOR, DEPARTMENT OF PUBLIC WORKS A SIGNED AND SEALED COPY OF THE LAND SURVEYOR'S REFERENCE DRAWING.
4. ALL CONSTRUCTION SHALL BE IN STRICT ACCORDANCE WITH THE STANDARDS AND SPECIFICATIONS OF THE CITY OF MIAMI PUBLIC WORKS DEPARTMENT AND ANY OTHER STATE OR LOCAL AGENCY WITH JURISDICTION. IT IS THE INTENT OF THESE PLANS TO BE IN ACCORDANCE WITH APPLICABLE CODES AND AUTHORITIES HAVING JURISDICTION, ANY DISCREPANCIES BETWEEN THESE PLANS AND APPLICABLE CODES SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ENGINEER OF RECORD.
5. MIAMI-DADE COUNTY WATER AND SEWER DEPARTMENT REQUIRES THAT ACCESS TO ALL WATER AND SEWER VALVES, SANITARY MANHOLES, AND OTHER CONTROL MECHANISMS BE MAINTAINED THROUGHOUT CONSTRUCTION IN THE EVENT OF AN EMERGENCY TO ENSURE THE PUBLIC HEALTH AND SAFETY. COVERING VALVE BOXES AND MANHOLES CAN BE CONSIDERED UNAUTHORIZED OBSTRUCTION OF AND TAMPERING WITH DEPARTMENT UTILITIES. CITY OF MIAMI CONTRACTOR TO COORDINATE AND WORK WITH MDWASD TO ADJUST, RELOCATE AND ISNTALL ANY MDWASD FACILITY REQUIRING WORK TO PERFORMED DURING CONSTRUCTION. FOR MANHOLE AND VALVES, CONTACT THE CONSTRUCTION MANAGEMENT SECTION (MIGUEL PICHARDO) AT (786) 268-5170. FOR THE ADJUSTMENT OF WATER METERS, CONTACT THE METER SHOP AT (786) 268-5469. FOR ANY FIRE HYDRANTS THAT ARE DAMAGED OR BUMPED DURING CONSTRUCTION, CONTACT THE MDWASD HYDRANT SHOP AT (786) 552-4926 BEFORE CASTING CONCRETE FOR THE SIDEWALK. IN THE EVENT OF A WATER OR SEWER EMERGENCY, CONTACT MIAMI DADE WATER AND SEWER DEPARTMENT EMERGENCY HOTLINE AT (786) 552-8901 THIS LINE IS OPEN 24 HOURS, 7 DAYS A WEEK.
6. CLEARING AND GRUBBING, GRADING AND OTHER INCIDENTAL WORK NECESSARY FOR HARMONIZATION OUTSIDE R/W SHALL BE INCLUDED IN RELATED BID ITEMS.
7. THE CONTRACTOR SHALL PREPARE AND SUBMIT SHOP DRAWINGS TO ENGINNER OF RECORD FOR ALL ITEMS USED IN THIS PROJECT.
8. WHEN DISSIMILAR MATERIAL CONNECTIONS ARE MADE, SUCH AS CONCRETE TO METAL, THE DISSIMILAR MATERIAL SHALL BE SEPARATED BY COATING THE CONTACT SURFACE WITH BITUMASTIC MATERIAL.
9. EXISTING DRAINAGE STRUCTURES WITHIN THE LIMITS OF CONSTRUCTION SHALL REMAIN UNLESS OTHERWISE NOTED.
10. PRIOR TO CONSTRUCTION THE CONTRACTOR WILL INSPECT ALL EXISTING STRUCTURES WHICH ARE TO REMAIN AND NOTIFY THE ENGINEER OF RECORD OF ANY OBVIOUS STRUCTURAL DEFICIENCIES
11. THERE SHALL BE NO MORE THAN THREE LATERAL DRAINAGE INSTALLATIONS WITHOUT BACKFILLING. BACKFILLING OF LATERAL DRAINAGE SHALL NOT LAG MORE THAN 72 HOURS BEHIND THE START OF EXCAVATION.
12. WHERE NEW PAVEMENT MEETS EXISTING, CONNECTION SHALL BE MADE IN A NEAT STRAIGHT LINE AND FLUSH WITH THE EXISTING PAVEMENT.
13. WHERE CONNECTIONS TO EXISTING SIDEWALKS AND DRIVEWAYS ARE NOT INDICATED ON PLANS, PROPER CONNECTIONS ARE TO BE MADE AS DIRECTED BY THE ENGINEER OF RECORD. DROP CURB AND DRIVEWAY CONNECTIONS SHALL BE PROVIDED FOR ACCESS TO ALL PRIVATE PROPERTIES ADJACENT TO THE PROJECT. PAYMENT SHALL BE INCLUDED IN THE COST OF RELATED BID ITEMS.
14. CONTRACTOR TO INSTALL PREFORMED EXPANSION JOINT WHEN PROPOSED SIDEWALK IMPROVEMENTS IS IMMEDIATELY ADJACENT TO EXISTING CONCRETE SLAB AND/OR BUILDING
15. PROPOSED ASPHALT PAVEMENT SHALL MEET APPLICABLE CITY OF MIAMI SPECIFICATIONS AND 2010 EDITION OF THE FDOT SPECIFICATIONS.
16. ALL CONCRETE SHALL DEVELOP A MINIMUM OF 3000 PSI COMPRESSIVE STRENGTH AT 28 DAYS, UNLESS OTHERWISE NOTED.
17. ALL PIPES ENTERING PROPOSED STRUCTURES SHALL BE FLUSH WITH THE INSIDE FACE OF THE WALL AND FINISHED IN A NEAT AND WORKMANLIKE MANNER.
18. THE CONTRACTOR SHALL ASSIST THE CITY WITH THE HANDLING OF PUBLIC INFORMATION MATERIALS, INCLUDING CITIZEN NOTIFICATION LETTERS AND PROJECT CONSTRUCTION SIGNS, PRIOR TO THE START OF EACH SIGNIFICANT PHASE OF CONSTRUCTION. COST OF THIS WORK SHALL BE INCLUDED IN THE MAINTENANCE OF TRAFFIC BID ITEM.
19. FOR TYPICAL TRENCH BAKCFILL FOR PROPOSED PIPES REFER TO CITY OF MIAMI STANDARD DETAIL MISC. 35-86-38.
20. CONTRACTOR SHALL AVOID DAMAGE TO EXISTING SEA WALL. ANY DAMAGE TO PRIVATE PROPERTY SHALL BE RESTORED TO ORIGINAL CONDITION OR BETTER AT NO ADDITIONAL COST TO THE OWNER.
21. ADDITIONAL WORK AS A RESULT OF THIS PROJECT IN, OVER AND UPON TIDAL WATERS OF MIAMI -DADE COUNTY REQUIRES A CLASS I PERMIT.
22. CONTRACTOR TO REFER TO STRUCTURAL DRAWINGS FOR PROJECT GEOMETRY.
23. PROPOSED STORM DRAINAGE SYSTEM SHALL NOT DISCHARGE INTO TIDAL WATERS.
24. CONTRACTOR TO COORDINATE WITH CITY OF MIAMI TO LOCATE AN APPROVED STAGING AREA.



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 Miami, Florida 33156  
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 Fax: (305) 870-2351  
 Certificate of Authorization No. 7184

**CITY OF MIAMI  
 CAPITAL IMPROVEMENTS PROGRAM**

PROJECT NAME	PROJECT ID
MIAMI WOMAN'S CLUB SEAWALL & BAYWALK	B-30731

**GENERAL NOTES**

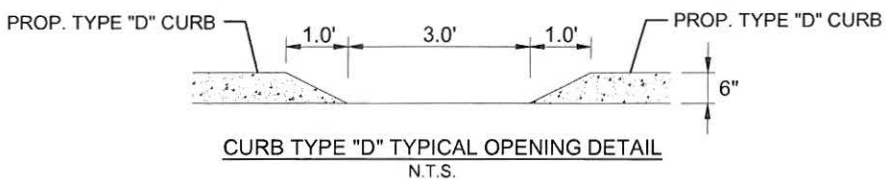
SHEET NO.  
 3

REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



LEGEND	
	PROPOSED SAFETY BUFFER ZONE
	PROPOSED CONCRETE BAYWALK
	PROPOSED SOD REGRADING
	PROPOSED CONCRETE HEADER
	PROPOSED NYLOPLAST DRAIN
	PROPOSED ADS DOME GRATES
	EXISTING TOPOGRAPHIC GRADE
	PROPOSED CONCRETE GRADE
	PROPOSED SOD GRADE
	PROPOSED TREE LOCATION
	FLOATING TURBIDITY BARRIER
	SILT FENCE
	PROPOSED PICKET FENCE



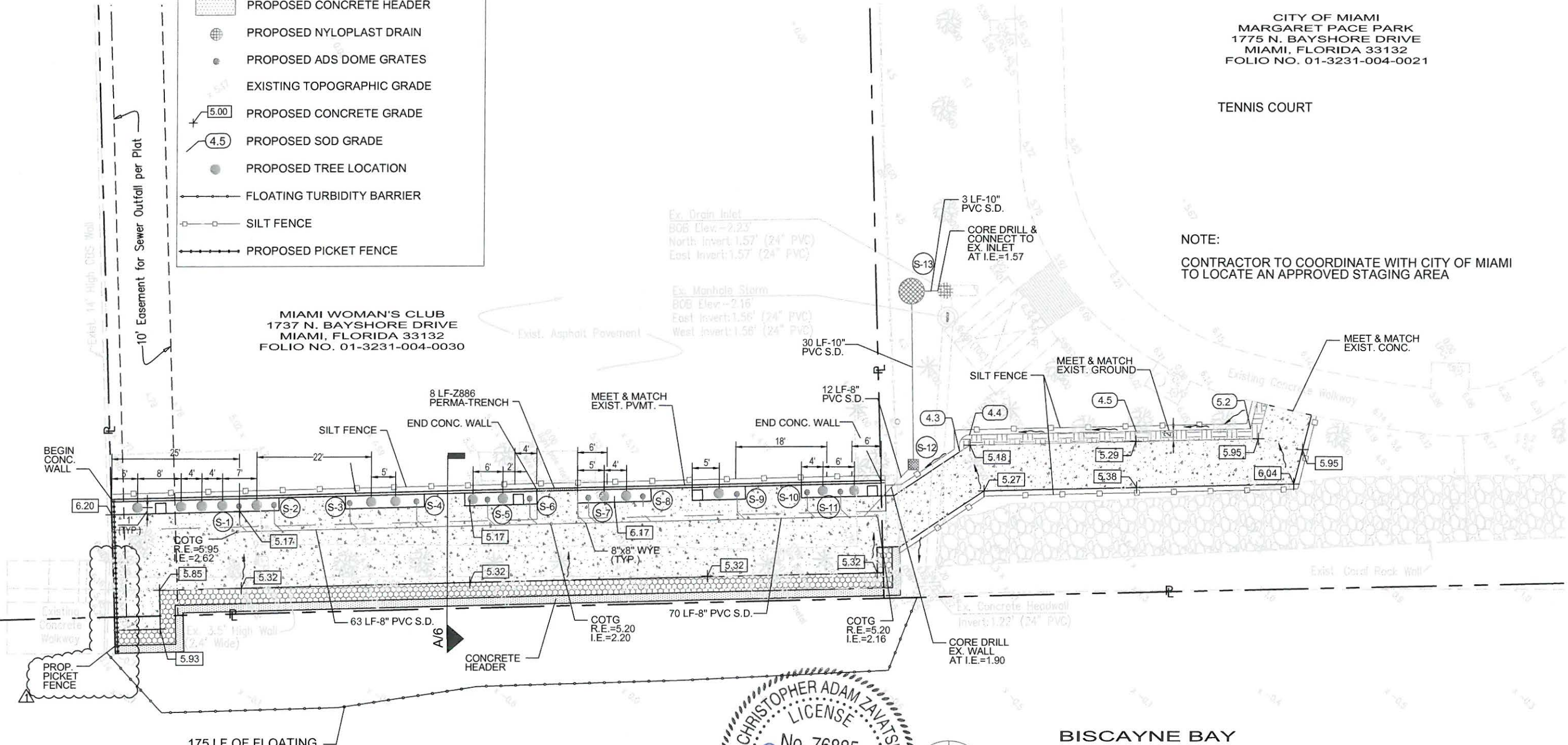
FOLIO NO.	01-3231-004-0030	01-3231-004-0021
TOTAL PROJECT AREA (5081 SF)	3516 SF	1565 SF
TOTAL PROJECT AREA ABOVE WATER	589 SF	5 SF
TOTAL PROJECT AREA LANDSIDE	2927 SF	1570 SF

CITY OF MIAMI  
MARGARET PACE PARK  
1775 N. BAYSHORE DRIVE  
MIAMI, FLORIDA 33132  
FOLIO NO. 01-3231-004-0021

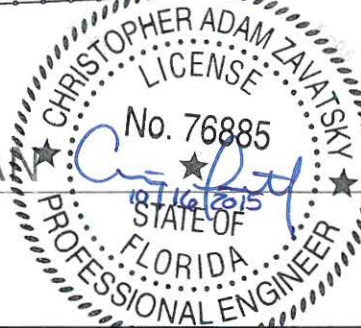
TENNIS COURT

NOTE:  
CONTRACTOR TO COORDINATE WITH CITY OF MIAMI  
TO LOCATE AN APPROVED STAGING AREA

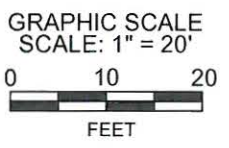
MIAMI WOMAN'S CLUB  
1737 N. BAYSHORE DRIVE  
MIAMI, FLORIDA 33132  
FOLIO NO. 01-3231-004-0030



CIVIL ENGINEERING PLAN  
SCALE: 1" = 20'



BISCAYNE BAY



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
8/3/2015	CAZ	▲ SOUTH PROPERTY LINE REVISION			



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
CITY OF MIAMI	
CAPITAL IMPROVEMENTS PROGRAM	
PROJECT NAME	PROJECT ID
MIAMI WOMAN'S CLUB SEAWALL & BAYWALK	B-30731

ENGINEERING PLAN

SHEET NO.  
4

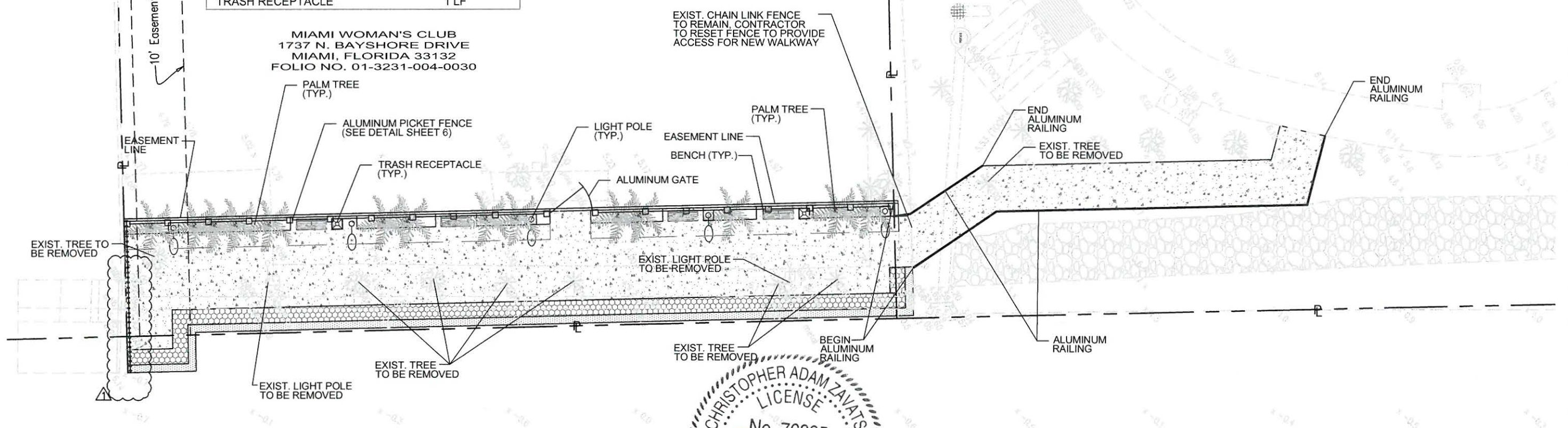


CITY OF MIAMI  
 MARGARET PACE PARK  
 1775 N. BAYSHORE DRIVE  
 MIAMI, FLORIDA 33132  
 FOLIO NO. 01-3231-004-0021

LEGEND	
	CABBAGE PALM OR EQUAL (MIN. 16' HT. OVERALL)
	BENCH (AS PER CITY OF MIAMI GREENWAY DESIGN STANDARDS)
	TRASH RECEPTACLE (AS PER CITY OF MIAMI GREENWAY DESIGN STANDARDS)
	CARMANAH EVERGEN SOLAR LUMINAIRE AND POLE

PROVIDE MASS OF GROUND COVER PLANTS AT THE BASE OF PALMS (MUHLY GRASS OR EQUAL)

OFFSET FROM EASEMENT LINE	
LIGHT POLES	2 LF
TREES	1.75 LF
YARD DRAINS	2 LF
BENCHES	1 LF
TRASH RECEPTACLE	1 LF

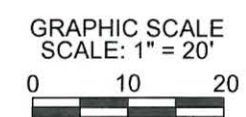


NOTE:  
 TREES TO REMAIN SHALL BE PROTECTED AGAINST DAMAGE.  
 TREES THAT ARE IN CLOSED PROXIMITY AND THE ROOT SYSTEM IS IN CONFLICT WITH THE PROPOSED CONDITION SHALL BE ROOT PRUNED 2 WEEKS PRIOR TO COMMENCING ANY OF THE PROPOSED WORK.

**AMMENITIES PLAN**  
 SCALE: 1" = 20'



BISCAYNE BAY



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
8/3/2015	CAZ	△ SOUTH PROPERTY LINE REVISION			

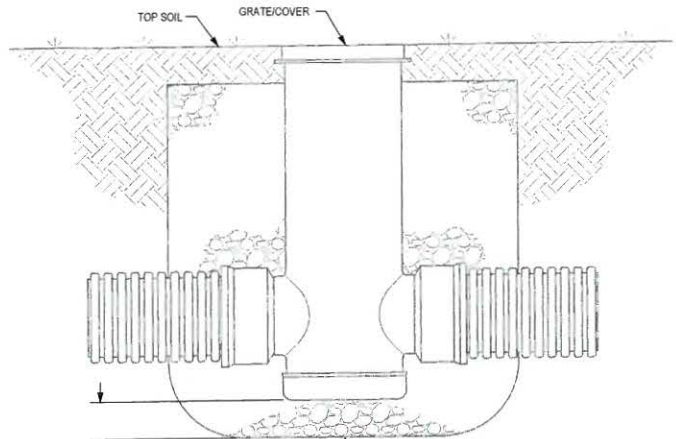
**engineering**  
 Christopher A. Zavatsky, P.E.  
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CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM	
PROJECT NAME	PROJECT ID
MIAMI WOMAN'S CLUB SEAWALL & BAYWALK	B-30731

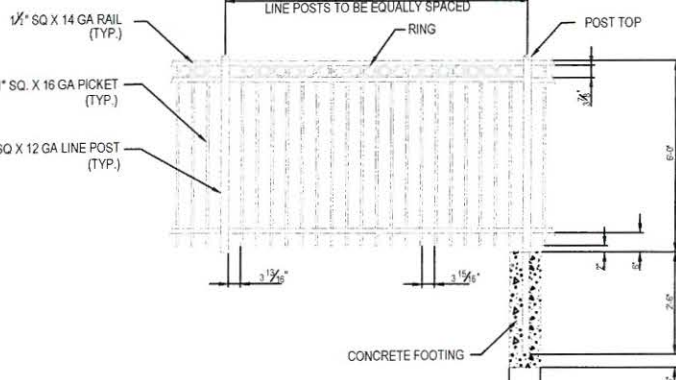
**AMMENITIES PLAN**

SHEET NO.  
5



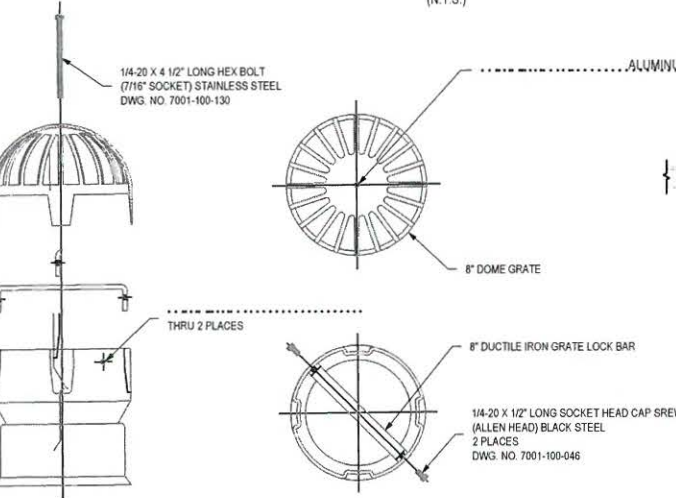


**NYLOPLAST 12" DRAIN BASIN**  
(N.T.S.)

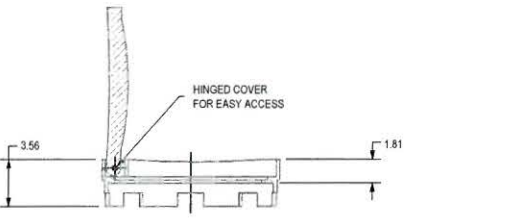


NOTES:  
ALUMINUM PICKET FENCE TO BE WITH ELECTROSTATIC PAINT FINISH BLACK

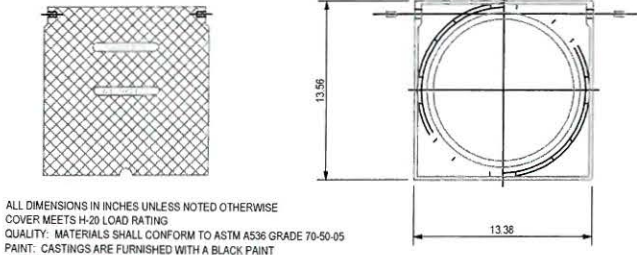
**ALUMINUM PICKET FENCE DETAIL**  
(N.T.S.)



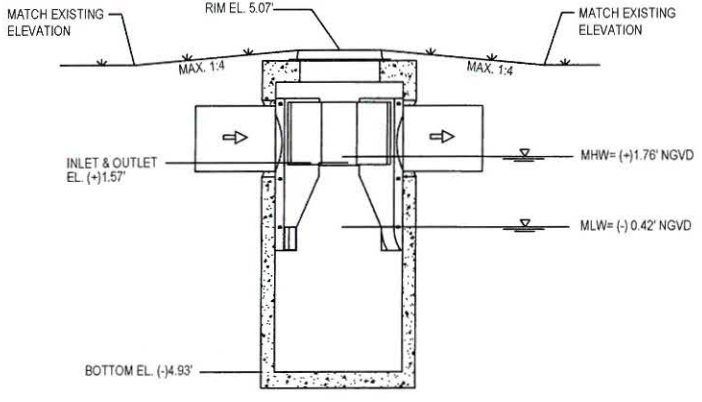
**DOMES GRATE ASSEMBLY DETAIL**  
(N.T.S.)



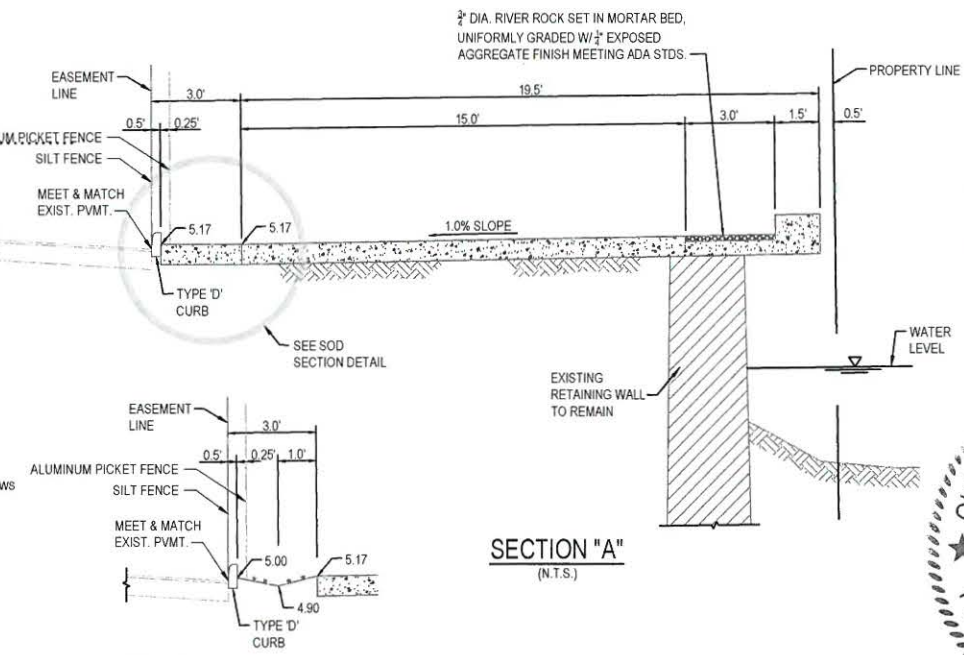
**12" SOLID COVER ASSEMBLY DETAIL**  
(N.T.S.)



ALL DIMENSIONS IN INCHES UNLESS NOTED OTHERWISE  
COVER MEETS H-20 LOAD RATING  
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05  
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT  
LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7001-110-033



**4-FT DIAMETER FIRST DEFENSE GRADING DETAIL**  
(N.T.S.)

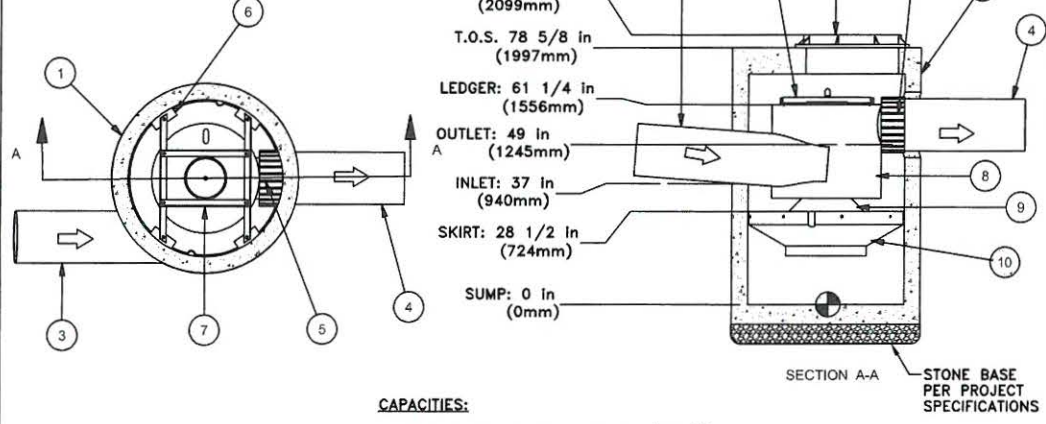


**SOD SECTION DETAIL**  
(N.T.S.)

**DRAINAGE STRUCTURE SCHEDULE**

NO.	TYPE & INSIDE DIMENSION	GRATE/RIM ELEVATION	PIPE INVERT ELEVATION				BOTTOM SLAB TOP ELEV.	PRB	REMARKS:
			N	S	E	W			
S-1	8" YARD DRAIN	4.90			2.40				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTON
S-2	8" YARD DRAIN	4.90			2.40				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTON
S-3	8" YARD DRAIN	4.90			2.40				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTON
S-4	8" YARD DRAIN	4.90			2.40				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTON
S-5	8" YARD DRAIN	4.90			2.40				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTON
S-6	8" YARD DRAIN	4.90			2.40				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTON
S-7	8" YARD DRAIN	4.90			2.40				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTON
S-8	8" YARD DRAIN	4.90			2.40				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTON
S-9	8" YARD DRAIN	4.90			2.40				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTON
S-10	8" YARD DRAIN	4.90			2.40				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTON
S-11	8" YARD DRAIN	4.90			2.40				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTON
S-12	12" DRAIN BASIN	4.00		1.85		1.85			NYLOPLAST DRAIN BASIN W/ SOLID DUCTILE IRON COVER, HINGED DESIGN & LOCKING OPTON
S-13	4 FT-DIAMETER DOWNSTREAM DEFENDER	5.07	1.57		1.57		(-) 4.93		HYDRO INTERNATIONAL - MODEL 4-FT DIAMETER DOWNSTREAM DIAMETER

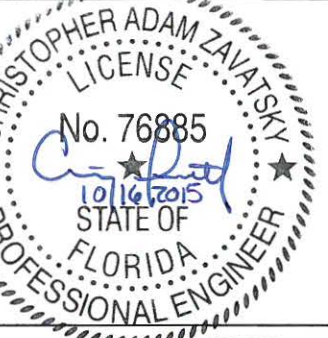
**NOT FOR CONSTRUCTION - CONTACT HYDRO INTERNATIONAL FOR SITE SPECIFIC DRAWINGS**



- CAPACITIES:**
1. Peak treatment flow: 3.0 cfs (85 l/s)
  2. Sediment storage capacity: 0.70 Cu. yd. (0.54 cu. m.)
  3. Oil storage capacity: 70 Gal. (265 liters)

**ADDITIONAL DESIGN INFORMATION:**

1. The outlet pipe stub (not shown) is a roto-molded product with an I.D. of 12 in. that cannot be modified. To avoid the use of a reducer or expander on the outlet a 12 in. outlet pipe should be used if possible. The orientation of the outlet pipe can be adjusted to suit site conditions.
2. Maximum pipe size is 12 in. The inlet pipe invert should be placed one inlet pipe diameter below the outlet pipe invert. The I.D. of the inlet pipe should be placed tangent to the I.D. of the manhole. The orientation of the inlet pipe can be adjusted to suit site conditions. Headloss at 3.0 cfs with a 12 in. inlet: 8 in. (203 mm). Sediment will increase with smaller inlet pipes.
3. Sediment shall be stored in a zone that is isolated from the main flow path and protected from re-entrainment by the benching skirt.
4. Dimensions are general and intended for guidance only.



**Notes**

1. MANHOLE WALL AND SLAB THICKNESSES ARE NOT TO SCALE.
2. CONTACT HYDRO INTERNATIONAL FOR A BOTTOM OF STRUCTURE ELEVATION PRIOR TO SETTING DOWNSTREAM DEFENDER MANHOLE.
3. TYPICALLY DOWNSTREAM DEFENDERS WILL BE DELIVERED TO THE PROJECT SITE WITH A TOP SLAB ELEVATION 12"± BELOW FINISHED GRADE. PURCHASER SHALL BE RESPONSIBLE FOR GRADE RINGS OR BLOCK AND MORTAR NECESSARY TO MEET FINAL GRADE.

**REVISION HISTORY**

REV	BY	DATE	DESCRIPTION
A	JLL	8/8/12	Added Note 3

Date: 9/14/2011  
Scale: 5/16" = 1'-0"

Drawn: EMH  
Checked: MRJ  
Approved: MRJ

Title: 4 -FT (1.22m) DIAMETER DOWNSTREAM DEFENDER

GENERAL ARRANGEMENT

**Hydro International**

Stormwater Solutions  
94 Hutchins Drive  
Portland, Maine 04102  
Tel: (207) 756-6200  
Fax: (207) 756-6212  
stormwaterinquiry@hydro-int.com

CAD Ref: D4GA\_SI  
Project No.  
Drawing No. D4GA\_SI Rev. A

**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

**engineering**

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**CITY OF MIAMI**

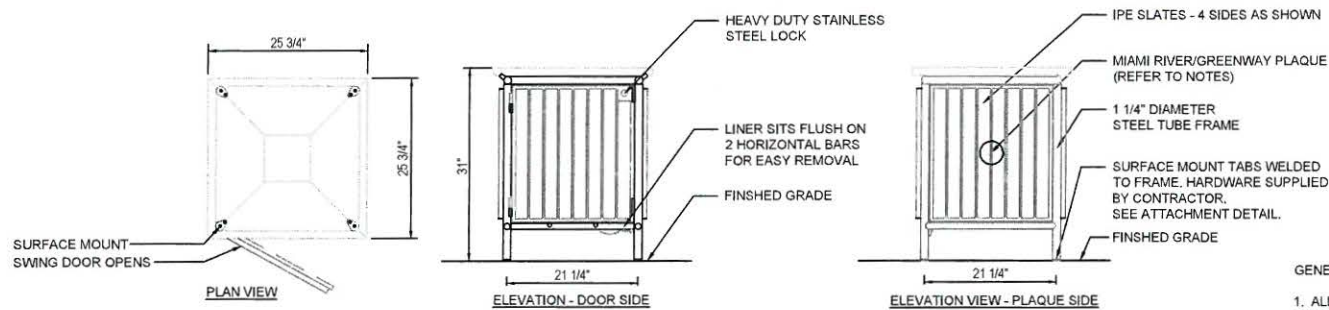
**CAPITAL IMPROVEMENTS PROGRAM**

PROJECT NAME	PROJECT ID
MIAMI WOMAN'S CLUB SEAWALL & BAYWALK	B-30731

**ENGINEERING DETAILS**

SHEET NO. 6



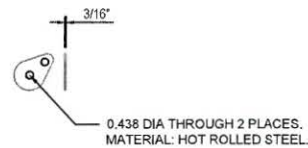


NOTES:  
 MANUFACTURER: LANDSCAPE FORMS, INC.  
 VENDOR: GAP ARCHITECTURAL PRODUCTS (407) 645-2854.  
 LITTER MODEL: PLAINWELL WASHINGTON SQUARE  
 LITTER RECEPTACLE WITH PLAQUE, IPE SLATS, HEAVY DUTY STAINLESS STEEL LOCK, SM TABS SURFACE MOUNT  
 STYLE: SIDE OPENING  
 MOUNTING: SURFACE-MOUNTING  
 LINER COLOR: BLACK  
 FINISH: PANGARD II® POLYESTER POWDERCOAT  
 FINISH COLOR: BLACK  
 ANCHORS: STAINLESS STEEL

- NOTES:  
 1. ALL HARDWARE SUPPLIED BY CONTRACTOR TO BE STAINLESS STEEL.  
 2. ANCHORS TO BE 3/8" DIA., STUD TYPE EXPANSION ANCHOR, MIN. OF 2-1/2" LONG  
 MOUNTING HOLES ARE 7/16" DIA.  
 3. LINER TO HAVE (6) 1/2" DIAMETER HOLES TO ALLOW FOR DRAINAGE.  
 4. CONTRACTOR TO MANUFACTURE AND SUPPLY MIAMI RIVERWALK/GREENWAY PLAQUE AS PER "MIAMI RIVER REGULATORY DESIGN STANDARDS", CENTER ON PANEL OPPOSITE OF DOOR. PLAQUE INSTALLED BY LANDSCAPE FORMS, INC.

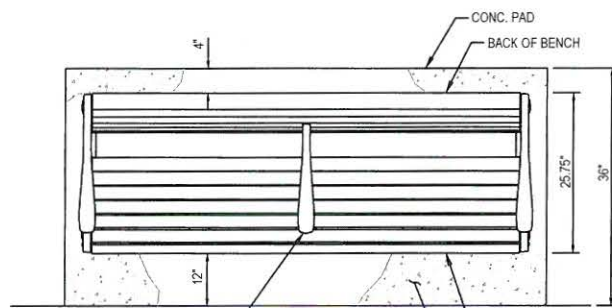
GENERAL AMENITY FURNISHING NOTES:

- ALL SITE FURNISHINGS SHALL MEET OR EXCEED ASTM, BIFMA OR INDUSTRY STANDARDS.
- SITE FURNISHING SHALL BE INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
- INSTALL SITE FURNISHINGS WITH TAMPER-PROOF BOLTS OR SIMILAR AS SPECIFIED BY MANUFACTURER.
- REFER TO MANUFACTURER'S PRODUCT SPECIFICATIONS FOR ALL MATERIAL SPECIFICATIONS AND INSTALLATION INSTRUCTIONS.
- ALL SITE FURNISHINGS TO BE FIELD LOCATED.
- MANUFACTURER NOTE: CONTRACTOR TO COORDINATE AND MANUFACTURER MIAMI RIVER/GREENWAY LOGO AS PER "MIAMI REGULATORY DESIGN STANDARDS," TO BE MOUNTED ON BENCH AND TRASH RECEPTACLE.
- SUBMIT FOR REVIEW CUT SHEETS FOR ALL SITE FURNISHINGS PRIOR TO INSTALLATION. CUT SHEETS TO INCLUDE INSTALLATION METHODS OF ATTACHMENT TO CONCRETE SURFACE.



LITTER RECEPTACLE - SURFACE MOUNTED

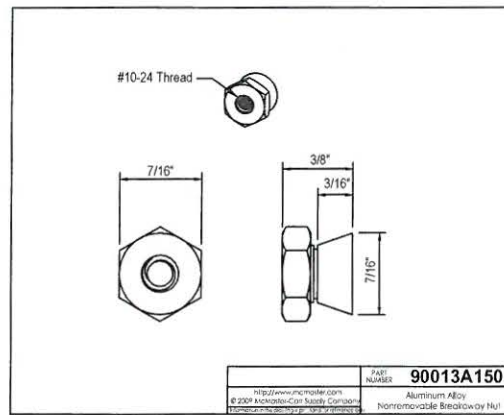
(N.T.S.)



PLAN VIEW

NOTES:

- ALL HARDWARE SUPPLIED BY CONTRACTOR TO BE STAINLESS STEEL.
- INSTALL PER MANUFACTURER'S SPECIFICATIONS
- SURFACE MOUNT ANCHORING TO BE USED WITH CORROSION-RESISTANT HARDWARE W/ 13/32" DIA. HOLES WITH COUNTERBORE PROVIDED FOR SOCKET HEAD CAP SCREWS.



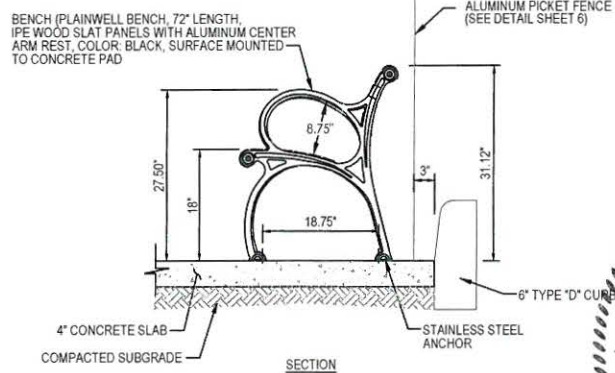
BENCH ATTACHMENT DETAIL

(N.T.S.)

BENCH (PLAINWELL BENCH, 72" LENGTH, IPE WOOD SLAT PANELS WITH ALUMINUM CENTER ARM REST, COLOR: BLACK, SURFACE MOUNTED TO CONCRETE PAD



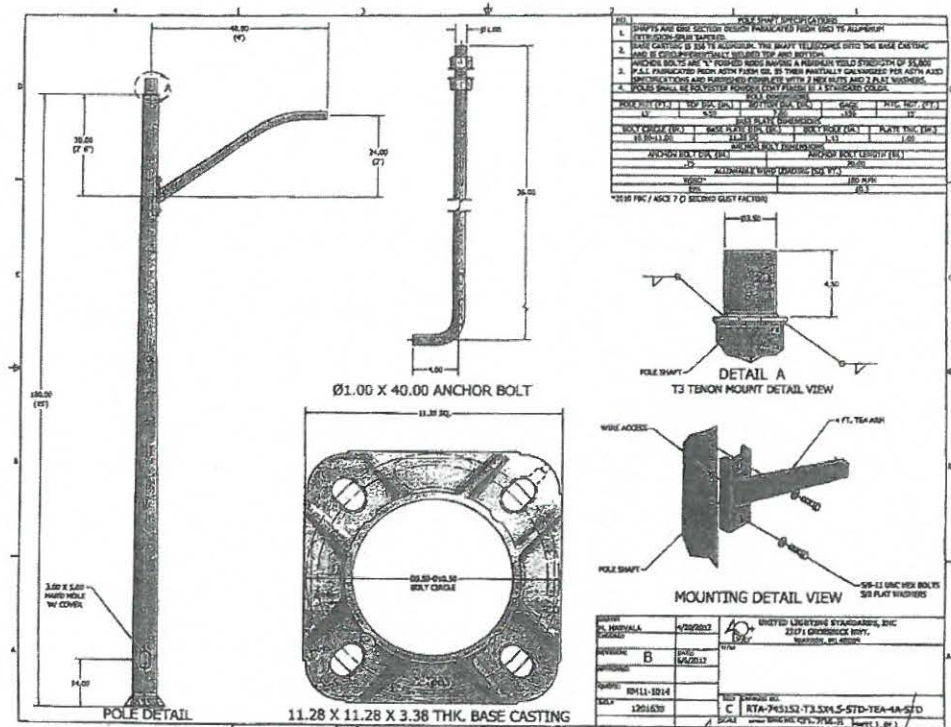
ELEVATION - FRONT VIEW



SECTION

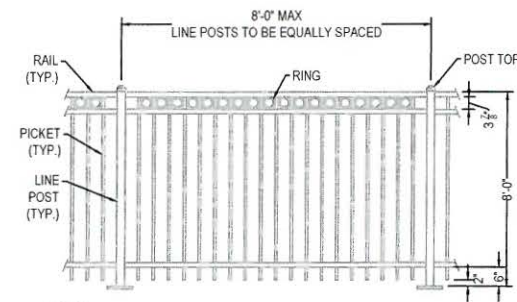
BENCH DETAIL

(N.T.S.)



GENERAL LIGHTING NOTES:

- GOVERNING STANDARDS AND SPECIFICATIONS ARE: THE DESIGN STANDARDS OF 2013, THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, THE 2005 NATIONAL ELECTRIC CODE, NATIONAL ELECTRICAL SAFETY CODE OR LATER EDITION AND LOCAL CODES WHICH EXCEEDS THESE SPECIFICATIONS.
- GROUND RODS ARE TO BE LOCATED AT EACH PULL BOX ASSOCIATED WITH A LIGHTING POLE. THE MIAMI-DADE PUBLIC WORKS STANDARDS REQUIRES A 5/8" X 20" COPPER CLAD STEEL GROUNDING ELECTRODE.
- ALL GROUNDING CONNECTIONS SHALL BE EXOTHERMICALLY WELDED AS PER FDOT SPECIFICATIONS SECTION 715-11 AND MIAMI-DADE COUNTY MAINTENANCE AGENCY NEW SPECIFICATIONS.
- LIGHT POLES SHALL BE GROUNDED WITH INSULATED GREEN THW CONDUCTORS RUNNING INSIDE THE CONDUIT.
- THE CONTRACTOR SHALL CHECK THE CONTINUITY OF GROUNDING CONDUCTOR USING MEGGER OR EQUAL LOW RESISTANCE/HIGH CAPACITY OHMMETER CALIBRATED WITHIN THE PAST 180 DAYS. A NEUTRAL/GROUND LOOP RESISTANCE OF MORE THAN 0.5 OHMS-PER THOUSAND FEET SHALL BE CONSIDERED INADEQUATE.
- PULL BOX COVER SHALL BE BOLTED TO THE PULL BOX USING A TAMPER PROOF NUT.
- THE CONTRACTOR SHALL CONSTRUCT CONCRETE SLABS AROUND ALL PULL BOXES LOCATED IN UNPAVED/GRASS AREA. SEE INDEX 17500 FOR DETAILS AND NOTES
- CONTRACTOR IS RESPONSIBLE FOR LOCATING AND PROTECTING EXISTING UTILITIES PRIOR TO CONSTRUCTION.
- LUMINAIRE SHALL BE A 40 WATT CARMANAH EVERGEN SOLAR LED SERIES 1710 WITH A MOUNTING HEIGHT OF 15 FT.
- FOUNDATION TO BE DESIGNED BY A FLORIDA LICENSED PROFESSIONAL ENGINEER



NOTES:

- PICKET FENCE TO BE PAINTED GREEN.
- CONTRACTOR TO RETAIN DELEGATED ENGINEER TO DESIGN FENCE ELEMENTS. SUBMIT SIGNED AND SEALED SHOP DRAWING CALCULATIONS.

PICKET FENCE DETAIL

(N.T.S.)



REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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CITY OF MIAMI  
 CAPITAL IMPROVEMENTS PROGRAM

PROJECT NAME	PROJECT ID
MIAMI WOMAN'S CLUB SEAWALL & BAYWALK	B-30731

ENGINEERING DETAILS

SHEET NO.

7



**GENERAL NOTES**

- THE GOVERNING CODE FOR THIS PROJECT IS THE FLORIDA BUILDING CODE, 2010 EDITION. THIS CODE PRESCRIBES WHICH EDITION OF EACH REFERENCED STANDARD APPLIES TO THIS PROJECT.
- TO THE BEST OF OUR KNOWLEDGE, THE STRUCTURAL DRAWINGS COMPLY WITH THE APPLICABLE REQUIREMENTS OF THE GOVERNING BUILDING CODE.
- CONSTRUCTION IS TO COMPLY WITH THE REQUIREMENTS OF THE GOVERNING BUILDING CODE AND ALL OTHER APPLICABLE FEDERAL, STATE, AND LOCAL CODES, STANDARDS, REGULATIONS AND LAWS.
- THE STRUCTURAL DOCUMENTS ARE TO BE USED IN CONJUNCTION WITH THE CIVIL DOCUMENTS. IF A CONFLICT EXISTS, THE MORE STRINGENT GOVERNS.
- DETAILS LABELED "TYPICAL" APPLY TO ALL SITUATIONS THAT ARE THE SAME OR SIMILAR TO THOSE SPECIFICALLY REFERENCED, WHETHER OR NOT THEY ARE KEYED IN AT EACH LOCATION. QUESTIONS REGARDING THE APPLICABILITY OF TYPICAL DETAILS SHALL BE RESOLVED BY THE ENGINEER.
- CONTRACTORS WHO DISCOVER DISCREPANCIES, OMISSIONS OR VARIATIONS IN THE CONTRACT DOCUMENTS DURING BIDDING OR CONSTRUCTION SHALL IMMEDIATELY NOTIFY THE ENGINEER. THE ENGINEER WILL RESOLVE THE CONDITION AND ISSUE A WRITTEN CLARIFICATION.
- THE GENERAL CONTRACTOR SHALL COORDINATE ALL CONTRACT DOCUMENTS WITH FIELD CONDITIONS AND DIMENSIONS AND PROJECT SHOP DRAWINGS PRIOR TO CONSTRUCTION. DO NOT SCALE DRAWINGS; USE ONLY PRINTED DIMENSIONS. REPORT ANY DISCREPANCIES IN WRITING TO THE ENGINEER PRIOR TO PROCEEDING WITH WORK. DO NOT CHANGE SIZE OR LOCATION OF STRUCTURAL MEMBERS WITHOUT WRITTEN INSTRUCTIONS FROM THE STRUCTURAL ENGINEER OF RECORD.
- THE CONTRACTOR SHALL PROTECT ADJACENT PROPERTY, HIS OWN WORK AND THE PUBLIC FROM HARM. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR CONSTRUCTION MEANS AND METHODS, AND JOBSITE SAFETY INCLUDING ALL OSHA REQUIREMENTS.
- THE STRUCTURE IS DESIGNED TO BE STRUCTURALLY SOUND WHEN COMPLETED. PRIOR TO COMPLETION, THE CONTRACTOR IS RESPONSIBLE FOR STABILITY AND TEMPORARY BRACING. WHEREVER THE CONTRACTOR IS UNSURE OF THESE REQUIREMENTS, THE CONTRACTOR SHALL RETAIN A FLORIDA LICENSED ENGINEER TO DESIGN AND INSPECT THE TEMPORARY BRACING AND STABILITY OF THE STRUCTURE.
- DESIGN SUPERIMPOSED LOADS:

OCCUPANCY	LIVE LOAD	DEAD LOAD
WALKWAY	100 PSF	25 PSF (RIVER ROCK ADJACENT TO CURB)

**DESIGN WIND LOADS**

GOVERNING CODE	ASCE 7-10
BASIC WIND SPEED	V = 175 MPH
RISK CATEGORY	II
DIRECTIONALITY FACTOR	K <sub>d</sub> = 0.85
EXPOSURE - MWFS	D
INTERNAL PRESSURE COEFFICIENT	GCP1 = 0.55
MEAN ROOF HEIGHT	5 FEET

**SHOP DRAWINGS AND OTHER SUBMITTALS**

- SUBMIT SPECIFIC COMPONENTS, SUCH AS BEAMS, PLANKS, ETC., IN A SINGLE PACKAGE.
- ON FIRST SUBMITTAL, CLEARLY FLAG AND CLOUD ALL DIFFERENCES FROM THE CONTRACT DOCUMENTS. ON RESUBMITTALS, FLAG AND CLOUD ALL CHANGES AND ADDITIONS TO PREVIOUS SUBMITTALS; ONLY CLOUDED ITEMS WILL BE REVIEWED.
- SUBMITTALS FOR SPECIAL STRUCTURAL, LOAD-CARRYING ITEMS THAT ARE REQUIRED BY CODES OR STANDARDS TO RESIST FORCES MUST BE PREPARED BY, OR UNDER THE DIRECT SUPERVISION OF, A DELEGATED ENGINEER. EXAMPLES INCLUDE PRECAST, PRESTRESSED CONCRETE PLANK AND PRECAST, PRESTRESSED CONCRETE PILES.
- A DELEGATED ENGINEER IS DEFINED AS A FLORIDA LICENSED ENGINEER WHO SPECIALIZES IN AND UNDERTAKES THE DESIGN OF STRUCTURAL COMPONENTS OR STRUCTURAL SYSTEMS INCLUDED IN A SPECIFIC SUBMITTAL PREPARED FOR THIS PROJECT AND IS AN EMPLOYEE OR OFFICER OF, OR CONSULTANT TO, THE CONTRACTOR OR FABRICATOR RESPONSIBLE FOR THE SUBMITTAL. THE DELEGATED ENGINEER SHALL SIGN, SEAL AND DATE THE SUBMITTAL, INCLUDING CALCULATIONS AND DRAWINGS.
- THE TRADE CONTRACTOR IS RESPONSIBLE FOR CONFIRMING AND CORRELATING DIMENSIONS AT THE JOB SITES, FOR TOLERANCES, CLEARANCES, QUANTITIES, FABRICATION PROCESSES AND TECHNIQUES OF CONSTRUCTION, COORDINATION OF THE WORK WITH OTHER TRADES AND FULL COMPLIANCE WITH THE CONTRACT DOCUMENTS.
- THE GENERAL CONTRACTOR/CONSTRUCTION MANAGER SHALL REVIEW AND APPROVE SUBMITTALS AND SHALL SIGN AND DATE EACH DRAWING PRIOR TO SUBMITTING TO THE ARCHITECT. THIS APPROVAL IS TO CONFIRM THAT THE SUBMITTAL IS COMPLETE, COMPLIES WITH THE SUBMITTAL REQUIREMENTS AND IS COORDINATED WITH FIELD DIMENSIONS, OTHER TRADES, ERECTION SEQUENCING AND CONSTRUCTABILITY.
- THE STRUCTURAL ENGINEER REVIEWS SUBMITTALS TO CONFIRM THAT THE SUBMITTAL IS IN GENERAL CONFORMANCE WITH THE DESIGN CONCEPT PRESENTED IN THE CONTRACT DOCUMENTS. QUANTITIES AND DIMENSIONS ARE NOT CHECKED. NOTATIONS ON SUBMITTALS DO NOT AUTHORIZE CHANGES TO THE CONTRACT SUM. CHECKING OF THE SUBMITTAL BY THE STRUCTURAL ENGINEER SHALL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR DEVIATIONS FROM THE CONTRACT DOCUMENTS AND FROM ERRORS OR OMISSIONS IN THE SUBMITTAL.
- IN ADDITION TO THE ABOVE, THE STRUCTURAL ENGINEER'S REVIEW OF DELEGATED ENGINEER SUBMITTALS IS LIMITED TO VERIFYING THAT THE SPECIFIED STRUCTURAL SUBMITTAL HAS BEEN FURNISHED, SIGNED AND SEALED BY THE DELEGATED ENGINEER AND THAT THE DELEGATED ENGINEER HAS UNDERSTOOD THE DESIGN INTENT AND USED THE SPECIFIED STRUCTURAL CRITERIA. NO DETAILED CHECK OF CALCULATIONS WILL BE MADE. THE DELEGATED ENGINEER IS SOLELY RESPONSIBLE FOR HIS/HER DESIGN, INCLUDING BUT NOT LIMITED TO THE ACCURACY OF HIS/HER CALCULATIONS AND COMPLIANCE WITH THE APPLICABLE CODES AND STANDARDS.

**DRIVEN PILES**

- FOUNDATION DESIGN IS BASED ON GEOTECHNICAL INVESTIGATION, DATA, AND RECOMMENDATIONS IN REPORT #21172 BY GEOSOL DATED JANUARY 11, 2012.
- STRUCTURAL DESIGN OF PILES SHALL BE BY A DELEGATED ENGINEER IN ACCORDANCE WITH FLORIDA BUILDING CODE SECTION 1825 AND ACI 543R-12.
- USE THE FOLLOWING PRECAST PRESTRESSED CONCRETE PILES:

PILE SIZE	MIN. LONGITUDINAL STRANDS	BEARING CAPACITY	LATERAL CAPACITY	MAX. CASTING LENGTH
14X14	4-7/16"	15 TONS	2 TONS	30'

USE ASTM A-416, 7 WIRE STRANDS. CONFINE WITH NO. 5 GAGE SPIRAL TIES WITH EACH END HAVING 5 TURNS AT 1" PITCH, 16 TURNS AT 3" PITCH AND THE INTERIOR TURNS AT 8" PITCH.

- CONCRETE STRENGTH SHALL BE MINIMUM 3000 PSI AT RELEASE AND MINIMUM 5000 PSI AT TIME OF DRIVING.
- INSTALL PILES IN ACCORDANCE WITH SECTION 455.B OF THE FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
- PILE HAMMER AND ASSOCIATED EQUIPMENT SHALL BE LOCATED LANDWARD OF EXISTING RETAINING WALL.
- CENTER SINGLE PILES UNDER BEAMS. PLACE ALL PILES WITHIN 3" OF SPECIFIED LOCATION AND 2X OF PLUMBNESS.
- PERFORM A SURVEY OF AS-BUILT PILE LOCATIONS. REFERENCE ALL PILES TO THEIR LOCATION SPECIFIED ON THE STRUCTURAL DRAWINGS AND FLAG ALL PILES WHICH EXCEED ALLOWABLE TOLERANCE OR ARE DAMAGED. SUBMIT SURVEY AT LEAST 48 HOURS PRIOR TO POURING AFFECTED BEAMS.

**EXCAVATION AND BACKFILL**

- THE CONTRACTOR IS SOLELY RESPONSIBLE FOR ALL EXCAVATION PROCEDURES INCLUDING LAGGING, SHORING, AND PROTECTION OF ADJACENT PROPERTY, STRUCTURES, STREETS AND UTILITIES IN ACCORDANCE WITH THE REQUIREMENTS OF THE LOCAL BUILDING DEPARTMENT AND OSHA REGULATIONS. DO NOT EXCAVATE WITHIN ONE FOOT OF THE ANGLE OF REPOSE OF ANY SOIL BEARING FOUNDATION UNLESS THE FOUNDATION IS PROPERLY PROTECTED AGAINST SETTLEMENT.
- DO NOT BACKFILL AGAINST NEW RETAINING WALLS UNTIL 7 DAYS AFTER THE WALLS ARE BRACED BY THE STRUCTURE OR ARE TEMPORARILY BRACED.

**SLABS ON GRADE**

- REFER TO GEOTECHNICAL REPORT FOR SUBGRADE PREPARATION MORE THAN 12" BELOW BOTTOM OF SLAB.
- ABOVE SUBGRADE, USE FILL CONTAINING NOT MORE THAN 10% PASSING #200 SIEVE AND MAXIMUM 1 INCH DIAMETER. COMPACT TO 95% OF MAXIMUM DRY DENSITY AS DETERMINED BY MODIFIED PROCTOR ASTM D-1557. EACH LAYER OF FILL SHALL NOT EXCEED 6" LOOSE THICKNESS. COMPACT PRIOR TO PLACEMENT OF THE NEXT LAYER.
- FILL PLACEMENT AND COMPACTION SHALL BE MONITORED AND ACCEPTED BY THE TESTING AGENCY. TAKE A MINIMUM OF TWO FIELD DENSITY TESTS (ASTM D-1556 OR D-2922). THE TESTING AGENCY SHALL RANDOMLY SELECT TEST LOCATIONS.
- DO NOT USE ANY POLYETHYLENE SHEETING BELOW EXTERIOR CONCRETE SLABS.
- USE WELDED WIRE REINFORCEMENT SUPPLIED IN FLAT SHEETS ONLY. USE CHAIRS TO SUPPORT WIRE FABRIC IN THE CENTER OF SLAB.
- PROVIDE CRACK CONTROL JOINTS AT 10 FEET MAXIMUM TO LIMIT AREAS BETWEEN JOINTS TO 100 SQ. FT. IN ALL FLOATING SLABS ON GRADE.

**REINFORCED CONCRETE**

- COMPLY WITH ACI 301-10 AND ACI 318-08.
  - PROVIDE STRUCTURAL CONCRETE WITH A MINIMUM ULTIMATE COMPRESSIVE DESIGN STRENGTH IN 28 DAYS AS FOLLOWS:
- | ELEMENT                | STRENGTH   |
|------------------------|--|
| FOOTINGS               | 4,000 PSI  |
| WALLS                  | 4,000 PSI  |
| ELEVATED SLABS & BEAMS | 5,000 PSI MAX. W/C=0.40 MAX. CHLORIDE ION CONTENT=0.15 |
| SLABS ON GRADE         | 4,000 PSI  |
- ELEVATED SLAB INCLUDES BACKUP SPAN CAST ON GRADE.
- USE NORMAL WEIGHT CONCRETE FOR ALL STRUCTURAL MEMBERS.
  - PROVIDE ASTM A-615 GRADE 60 REINFORCING STEEL. REINFORCING SHALL BE ACCURATELY PLACED, RIGIDLY SUPPORTED AND FIRMLY TIED IN PLACE, WITH APPROPRIATE BAR SUPPORTS AND SPACERS. LAP CONTINUOUS REINFORCING 48 BAR DIA. LAP BOTTOM STEEL OVER SUPPORTS AND TOP STEEL AT MIDSPAN (U.O.N.). HOOK DISCONTINUOUS ENDS OF ALL TOP BARS. PROVIDE COVER OVER REINFORCING AS FOLLOWS:

ELEMENT	BOTTOM	TOP	SIDES
FOOTINGS	3"	2"	3"
ELEVATED SLABS & BEAMS	1-1/2"	1-1/2"	1-1/2"
SLABS ON GRADE	3"	2"	2"
WALLS RETAINING FILL	-	-	2"

- WHERE SPECIFIED, PROVIDE PLAIN, COLD-DRAWN ELECTRICALLY-WELDED WIRE REINFORCEMENT CONFORMING TO ASTM A-185. SUPPLY IN FLAT SHEETS ONLY. LAP SPLICE ONE CROSS WIRE SPACING PLUS TWO INCHES.
- PROVIDE CONSTRUCTION JOINTS IN ACCORDANCE WITH ACI 318, SECTION 6.4. PROVIDE KEYWAYS AND ADEQUATE DOWELS. SUBMIT DRAWINGS SHOWING LOCATION OF CONSTRUCTION JOINTS AND DIRECTION OF POUR FOR REVIEW.
- PROVIDE 3/4" CHAMFER FOR ALL EXPOSED CORNERS.
- PROVIDE REINFORCING STEEL PLACER WITH A SET OF STRUCTURAL DRAWINGS FOR FIELD REFERENCE. INSPECT REINFORCING STEEL PLACING FROM STRUCTURAL DRAWINGS.
- CONCRETE COLOR SHALL BE STANDARD GRAY (NO PIGMENTS REQUIRED).
- CONCRETE SHALL BE BRUSH FINISHED IN ACCORDANCE WITH SECTION 408-B OF THE CITY OF MIAMI STANDARD SPECIFICATIONS FOR PUBLIC WORKS PROJECTS.

**DEMOLITION**

- SAWCUT PORTION OF EXISTING RETAINING WALL TO BE REMOVED. PROVIDE NETTING ON SEAWARD SIDE OF WALL TO PREVENT DEBRIS FROM FALLING INTO BAY.
- AT ALL LOCATIONS WHERE THE DEMOLITION OF A CONCRETE MEMBER LEAVES THE ENDS OF REINFORCING STEEL EXPOSED, CHIP CONCRETE AROUND THE STEEL TO A DEPTH OF 1", CUT OFF REINFORCING STEEL 1/2" BELOW THE CONCRETE SURFACE AND FILL THE CAVITY FLUSH WITH A CEMENTITIOUS REPAIR MORTAR.
- REMOVE COMPLETELY FROM THE SITE AND LEGALLY DISPOSE OF ALL DEBRIS GENERATED BY THE DEMOLITION WORK.

**EXPANSION ANCHORS**

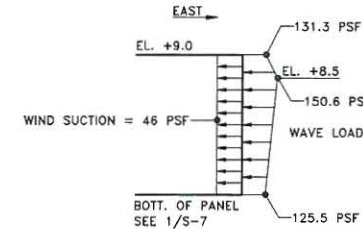
- USE WEDGE-TYPE EXPANSION ANCHORS SUCH AS THE HILTI KWIK BOLT II, ITW RAMSET RED HEAD TRUBOLT WEDGE, POWERS RAWL POWER-STUD, SIMPSON STRONG-TIE WEDGE-ALL OR ACCEPTED EQUIVALENT. FOLLOW MANUFACTURER'S SPECIFICATIONS FOR USE AND INSTALLATION.
- CONFIRM THE ABSENCE OF REINFORCING STEEL BY DRILLING A 1/4" DIAMETER PILOT HOLE FOR EACH ANCHOR. DO NOT CUT REINFORCING STEEL WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.
- PROVIDE ANCHOR EMBEDMENT, SPACING AND EDGE DISTANCE AS SHOWN ON THE DRAWINGS.

**CHEMICAL ADHESIVE FOR ANCHORING REINFORCING BARS, THREADED BARS AND ANCHOR BOLTS**

- USE AN EPOXY, ACRYLIC OR POLYESTER RESIN ADHESIVE SYSTEM SUCH AS THE HILTI HIT HY150, ITW RAMSET/RED HEAD EPCON A7 OR C6 INJECTION SYSTEM, POWERS RAWL POWER-FAST SYSTEM, SIMPSON STRONG-TIE AT OR ET, ALLIED FASTENER ALLIED GOLD A-1000, OR ACCEPTED EQUIVALENT. FOLLOW MANUFACTURER'S SPECIFICATIONS FOR USE AND INSTALLATION.
- CONFIRM THE ABSENCE OF REINFORCING STEEL BY DRILLING A 1/4" DIAMETER PILOT HOLE FOR EACH ANCHOR. DO NOT CUT REINFORCING STEEL WITHOUT APPROVAL OF THE STRUCTURAL ENGINEER.
- REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS FOR APPROPRIATE DRILL SIZE. THOROUGHLY CLEAN HOLE INCLUDING REMOVAL OF DUST PRIOR TO FILLING WITH EPOXY.
- PROVIDE ANCHOR EMBEDMENT, SPACING AND EDGE DISTANCE AS SHOWN ON THE DRAWINGS.
- THREADED RODS ARE A-36 GALVANIZED STEEL, U.O.N.

**FLOOD PANEL**

- CONTRACTOR SHALL FURNISH FLOOD PANEL TO BE INSTALLED AT LOCATION INDICATED ON PLAN DURING TROPICAL STORM / HURRICANE WARNINGS.
- PANEL SHALL BE DESIGNED BY A FLORIDA LICENSED DELEGATED ENGINEER RETAINED BY PANEL SUPPLIER. SUBMIT SIGNED AND SEALED SHOP DRAWINGS AND CALCULATIONS.
- PANEL DESIGN LOADS (UNFACTORED SERVICE LOADS):



NOTE: WIND LOAD AND WAVE LOAD SHALL BE CONSIDERED SIMULTANEOUSLY AND SHALL BE COMBINED AS PER ASCE 7-10.

**RIP RAP**

- RIP RAP SHALL BE FURNISHED IN ACCORDANCE WITH FLORIDA DEPARTMENT OF TRANSPORTATION STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (2014), SECTION 530.
  - MATERIAL SHALL BE RUBBLE (BANK AND SHORE PROTECTION) IN ACCORDANCE WITH SECTION 530-2, AND SHALL BE FREE OF PROTRUDING STEEL.
  - INSTALLATION SHALL BE IN ACCORDANCE WITH SECTION 530-3.

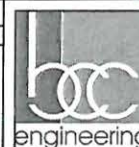
**STRUCTURAL SHEET LIST:**

- S-1 GENERAL NOTES
- S-2 KEY PLAN
- S-3 to S-5 PLAN SHEETS
- S-6 & S-7 SECTIONS & DETAILS
- S-8 CONCRETE REPAIR DETAILS



**REVISIONS**

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**CITY OF MIAMI**  
**CAPITAL IMPROVEMENTS PROGRAM**

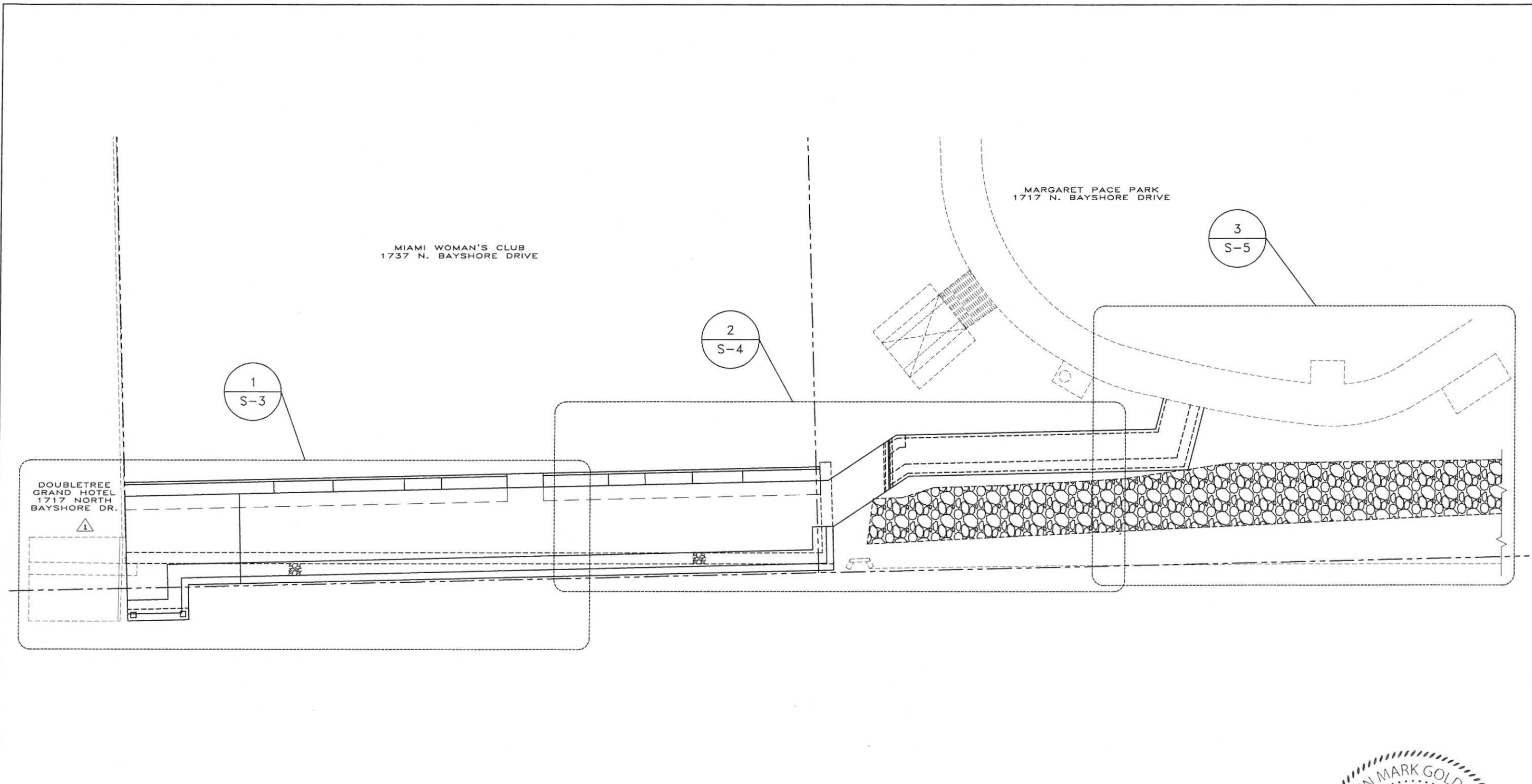
PROJECT NAME	PROJECT ID
MIAMI WOMAN'S CLUB SEAWALL & BAYWALK	B-30731

**STRUCTURAL NOTES**

SHEET NO.

S-1





REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
8/3/15	SG	△ SOUTH PROPERTY LINE REVISION			



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CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM	
PROJECT NAME	PROJECT ID
MIAMI WOMAN'S CLUB SEAWALL & BAYWALK	B-30731

**KEY PLAN**

SHEET NO.  
S-2

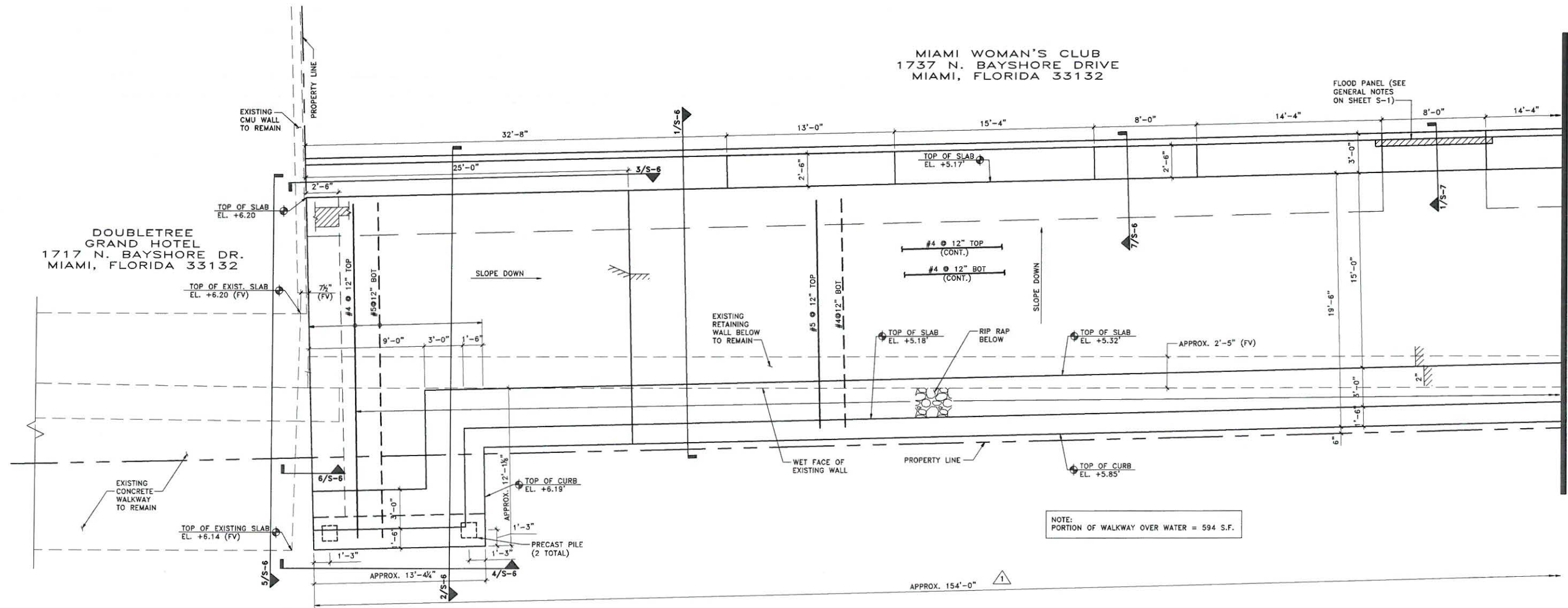


MIAMI WOMAN'S CLUB  
1737 N. BAYSHORE DRIVE  
MIAMI, FLORIDA 33132

DOUBLETREE  
GRAND HOTEL  
1717 N. BAYSHORE DR.  
MIAMI, FLORIDA 33132

FLOOD PANEL (SEE  
GENERAL NOTES  
ON SHEET S-1)

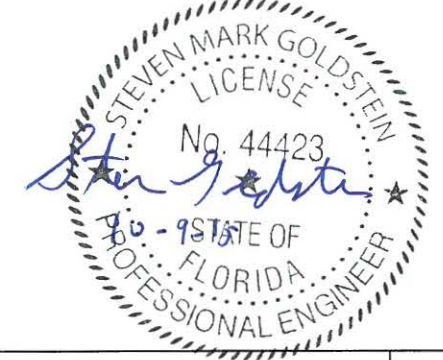
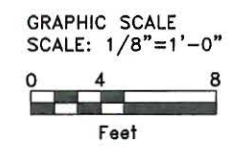
MATCH LINE SEE SHEET S-4



NOTE:  
PORTION OF WALKWAY OVER WATER = 594 S.F.

BISCAYNE BAY

1 PLAN No. 1  
SCALE: 1/8" = 1'-0"



REVISIONS					
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8/3/15	SG	△ SOUTH PROPERTY LINE REVISION			



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CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM	
PROJECT NAME MIAMI WOMAN'S CLUB SEAWALL & BAYWALK	PROJECT ID B-30731

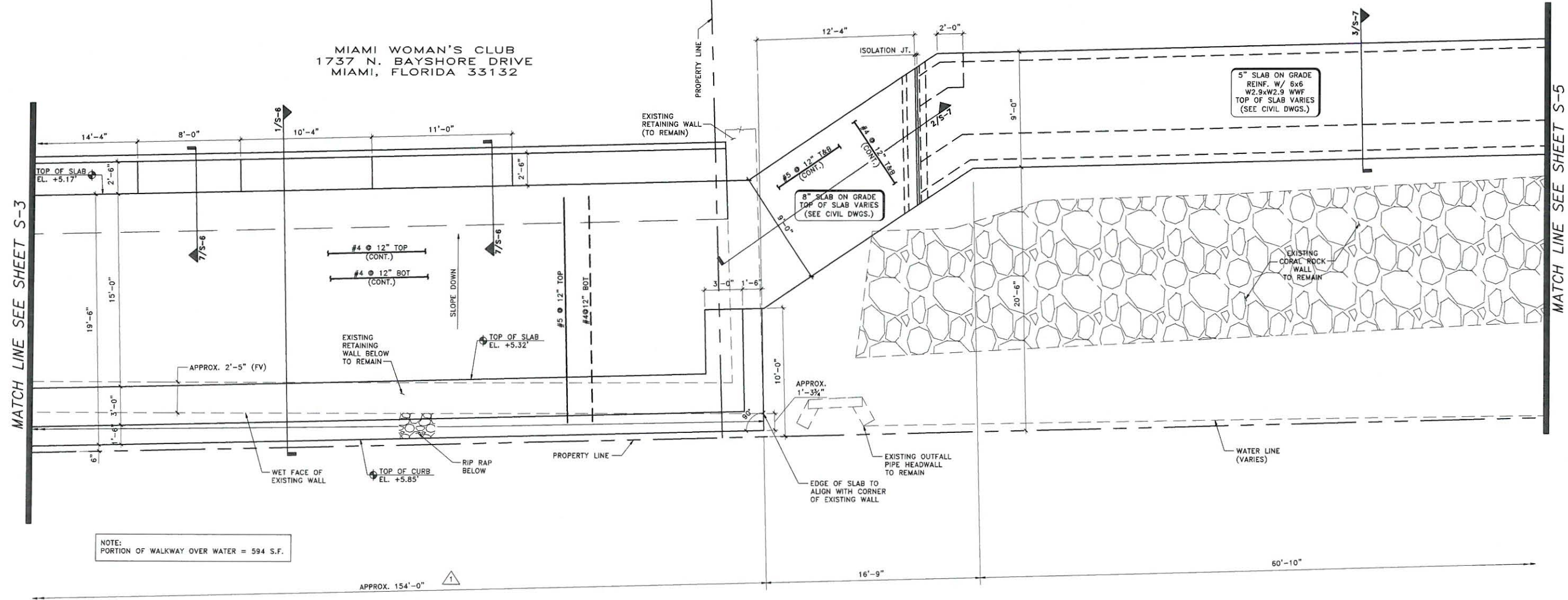
PLAN No. 1

SHEET NO.  
S-3



MARGARET PACE PARK  
1775 N. BAYSHORE DRIVE  
MIAMI, FLORIDA 33132

MIAMI WOMAN'S CLUB  
1737 N. BAYSHORE DRIVE  
MIAMI, FLORIDA 33132

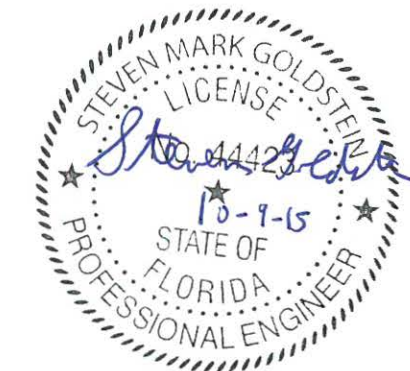


BISCAYNE BAY

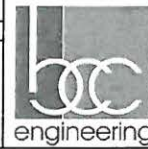
2 PLAN No. 2  
SCALE: 1/8" = 1'-0"



GRAPHIC SCALE  
SCALE: 1/8" = 1'-0"  
0 4 8  
Feet



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
8/3/15	SG	△ SOUTH PROPERTY LINE REVISION			



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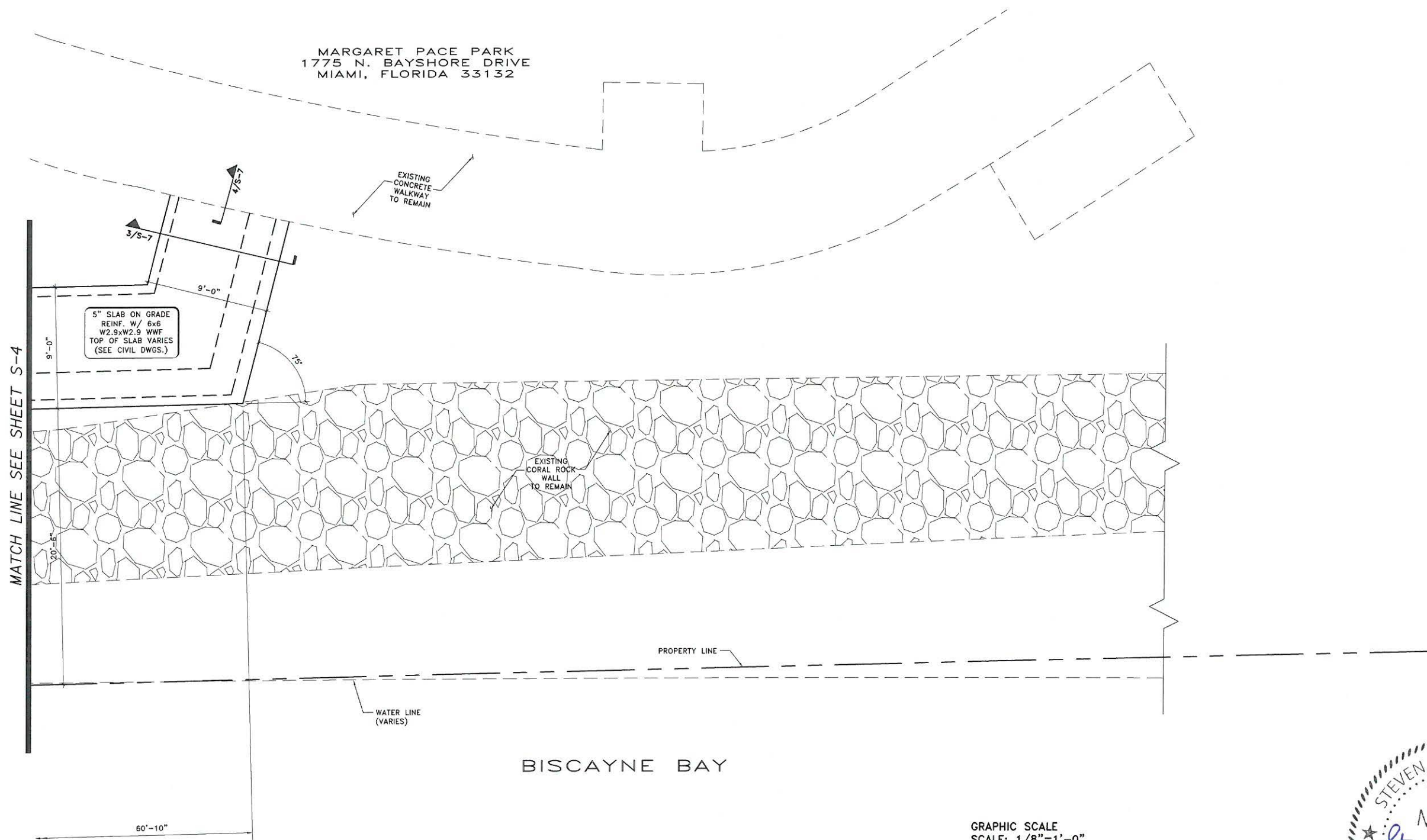
CITY OF MIAMI  
CAPITAL IMPROVEMENTS PROGRAM  
PROJECT NAME: MIAMI WOMAN'S CLUB SEAWALL & BAYWALK  
PROJECT ID: B-30731

PLAN No. 2

SHEET NO.  
S-4



MARGARET PACE PARK  
1775 N. BAYSHORE DRIVE  
MIAMI, FLORIDA 33132



3 PLAN No. 3  
SCALE: 1/8" = 1'-0"



GRAPHIC SCALE  
SCALE: 1/8" = 1'-0"  
0 4 8  
Feet



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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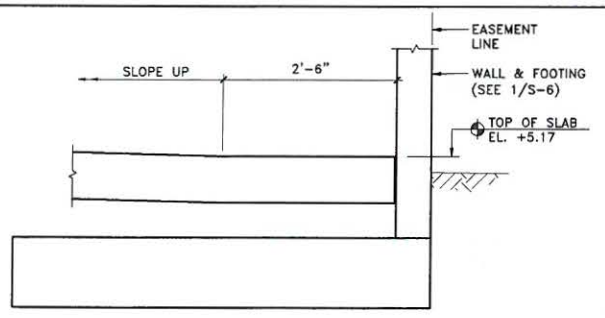
**CITY OF MIAMI**  
**CAPITAL IMPROVEMENTS PROGRAM**

PROJECT NAME	PROJECT ID
MIAMI WOMAN'S CLUB SEAWALL & BAYWALK	B-30731

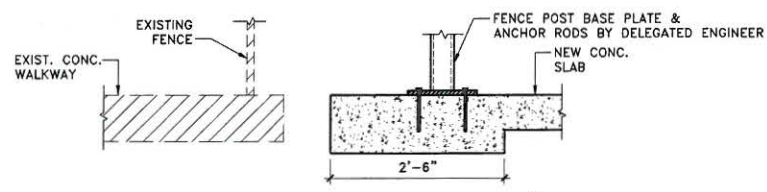
**PLAN No. 3**

SHEET NO.  
S-5

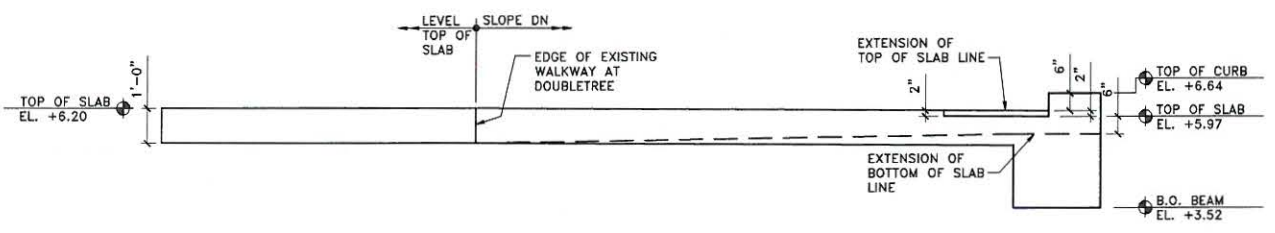




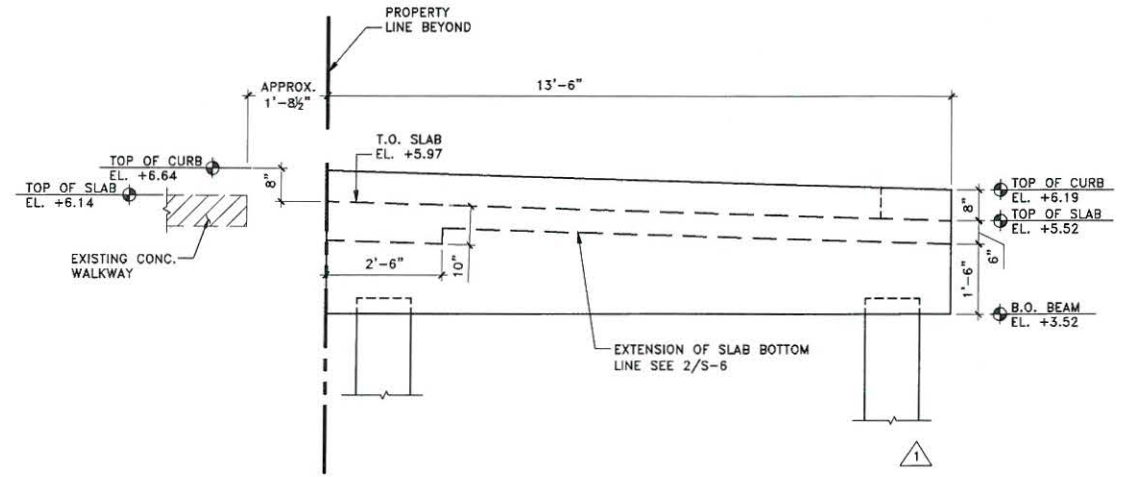
**7 SECTION AT BENCH/TRASH RECEPTACLE SLAB**  
SCALE: 3/4" = 1'-0"



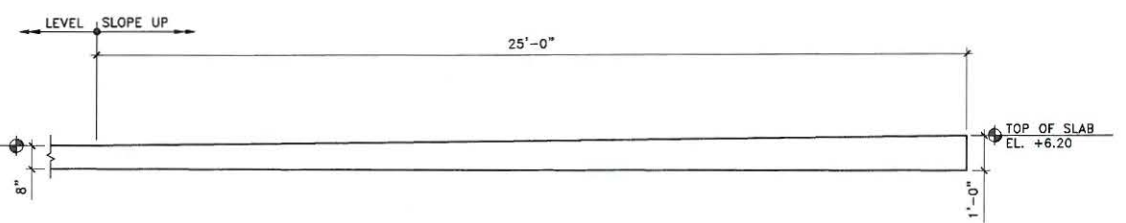
**6 SECTION AT SOUTH PROPERTY LINE**  
SCALE: 3/4" = 1'-0"



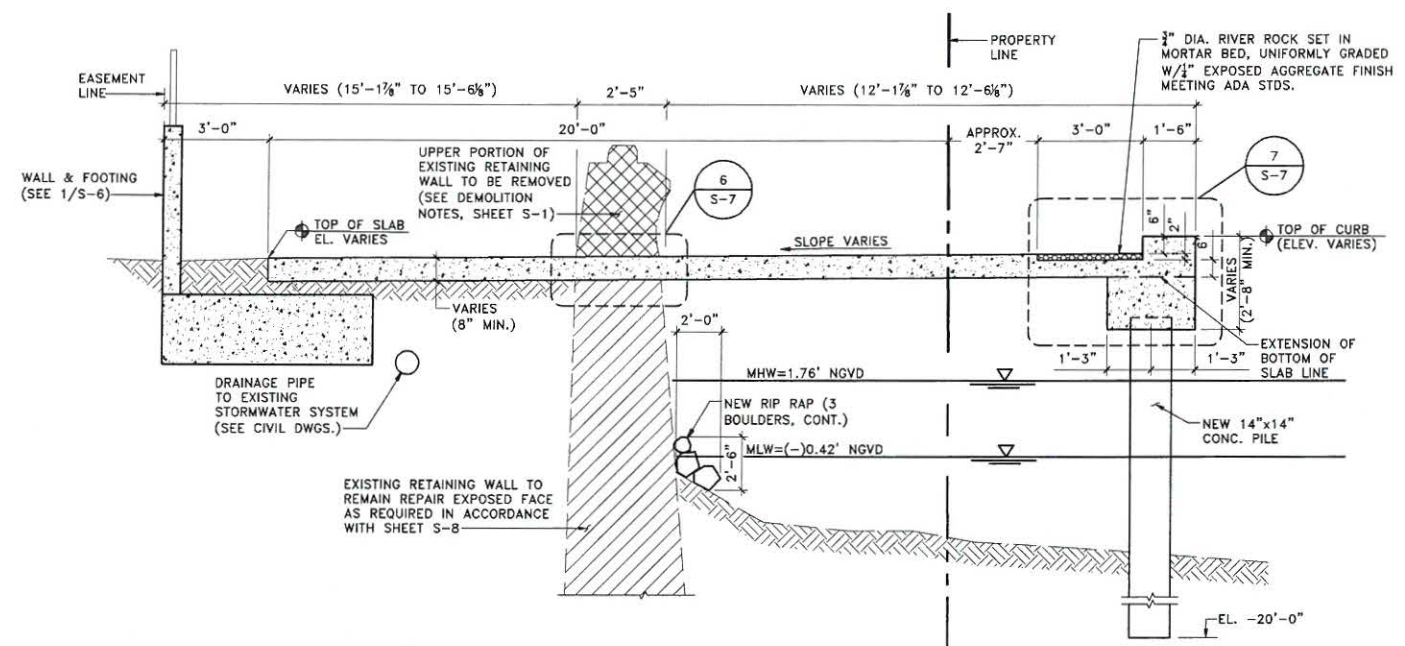
**5 ELEVATION AT SOUTH WALKWAY EDGE**  
SCALE: 3/8" = 1'-0"



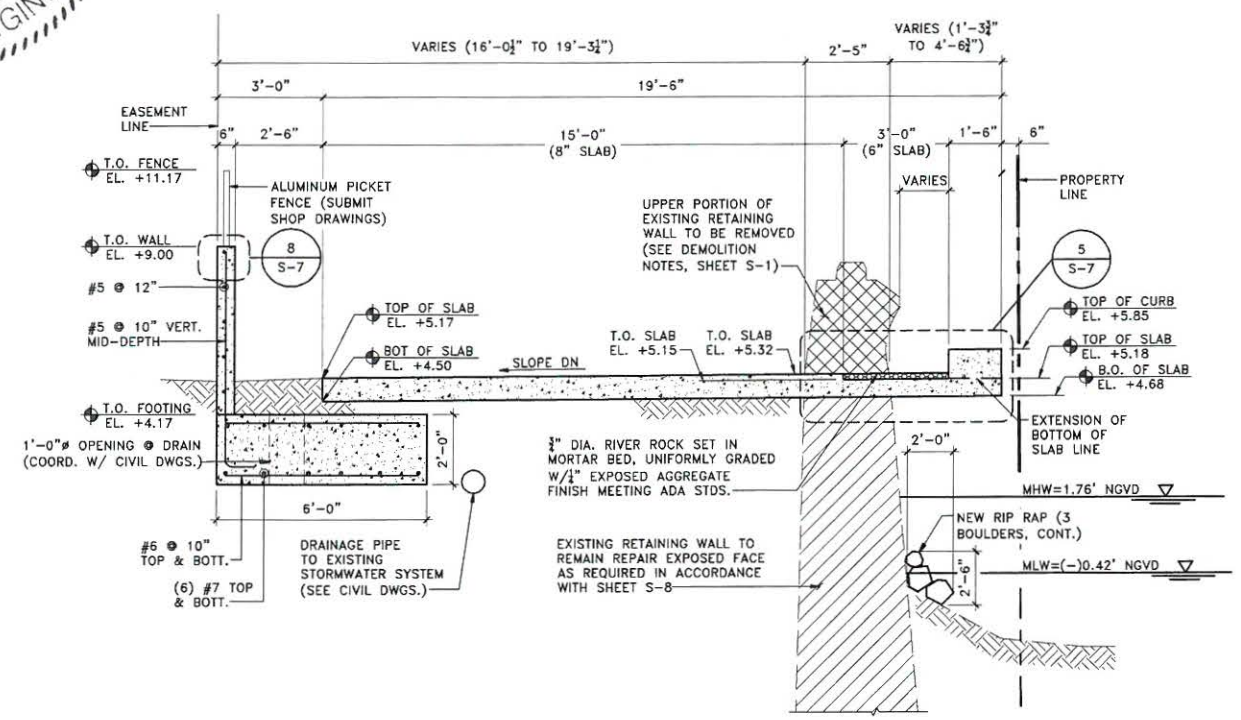
**4 ELEVATION AT EAST WALKWAY EDGE**  
SCALE: 1/2" = 1'-0"



**3 ELEVATION AT WEST WALKWAY EDGE**  
SCALE: 3/8" = 1'-0"



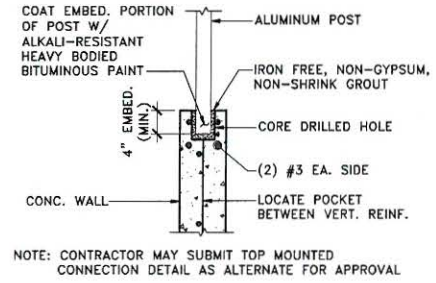
**2 SECTION THROUGH WALKWAY TRANSITION AT DOUBLETREE/WOMAN'S CLUB**  
SCALE: 3/8" = 1'-0"



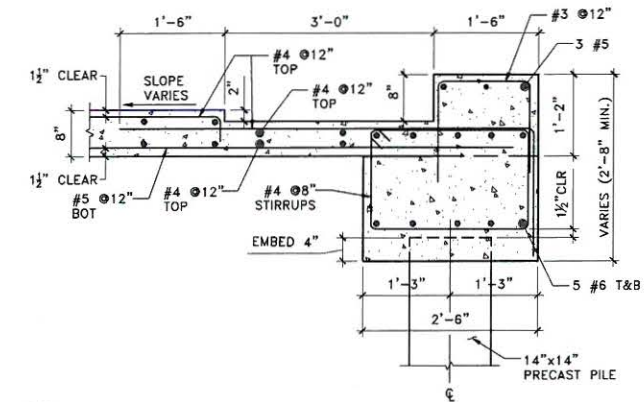
**1 SECTION THROUGH WALKWAY AT MIAMI WOMAN'S CLUB**  
SCALE: 3/8" = 1'-0"

REVISIONS						 Steven Goldstein Florida License No. 44423 7300 N Kendall Drive, Suite 400 Miami, Florida 33168 Phone: (305) 670-2288 Fax: (305) 670-2281 Certificate of Authorization No. 7184	<b>CITY OF MIAMI</b> <b>CAPITAL IMPROVEMENTS PROGRAM</b>		<b>SECTIONS AND DETAILS</b>	SHEET NO.  S-6
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		PROJECT NAME	PROJECT ID		
8/3/15	SG	△ SOUTH PROPERTY LINE REVISION				MIAMI WOMAN'S CLUB SEAWALL & BAYWALK	B-30731			

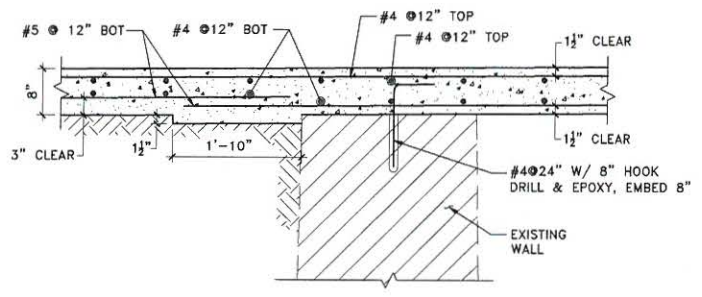




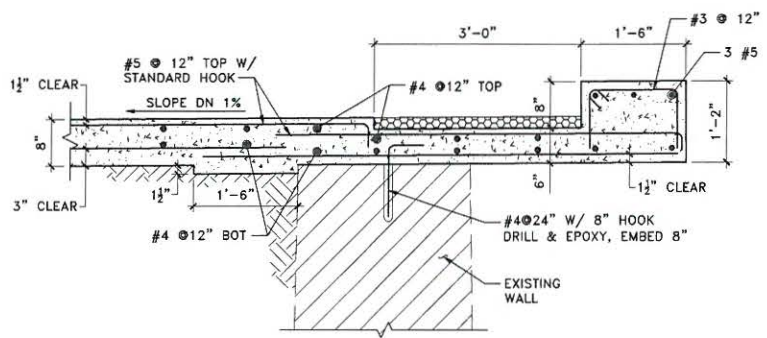
**8 TOP OF WALL DETAIL**  
SCALE: 3/4" = 1'-0"



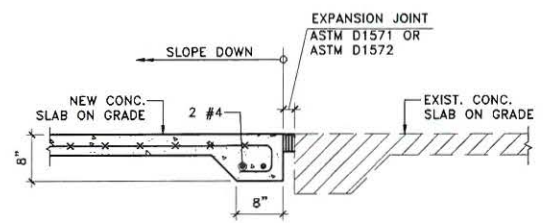
**7 BEAM DETAIL**  
SCALE: 3/4" = 1'-0"



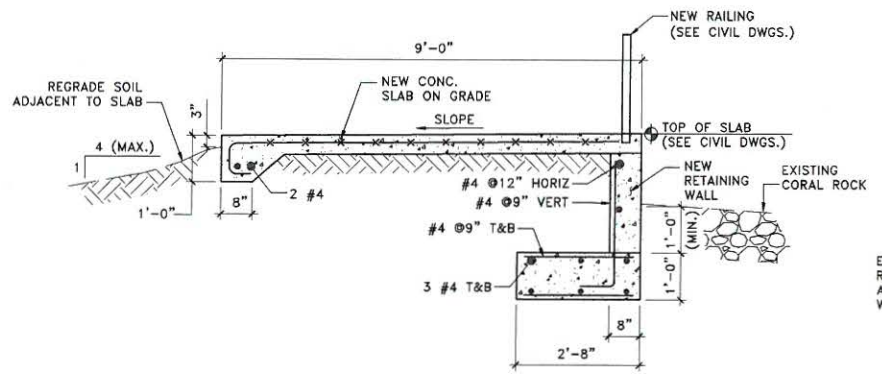
**6 WALL CONNECTION DETAIL**  
SCALE: 3/4" = 1'-0"



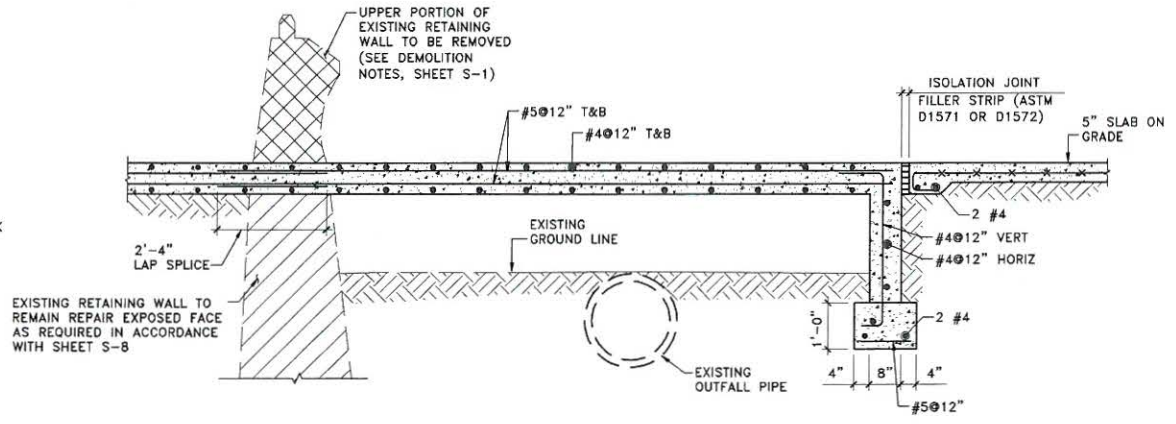
**5 SLAB EDGE DETAIL**  
SCALE: 3/4" = 1'-0"



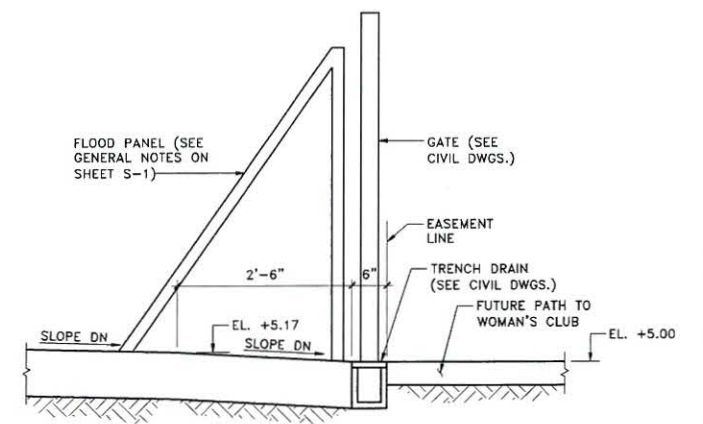
**4 SECTION AT EXISTING WALKWAY**  
SCALE: 3/4" = 1'-0"



**3 SECTION THROUGH WALKWAY ON GRADE**  
SCALE: 1/2" = 1'-0"



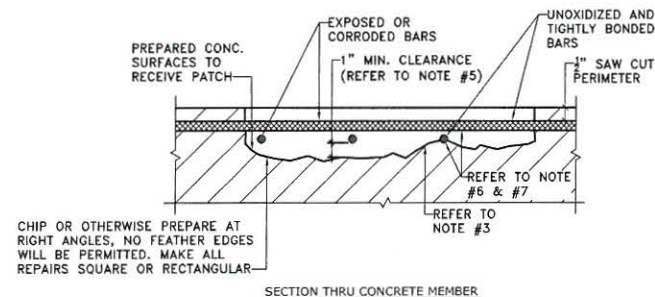
**2 SECTION AT EXPANSION JOINT AT MARGARET PACE PARK**  
SCALE: 1/2" = 1'-0"



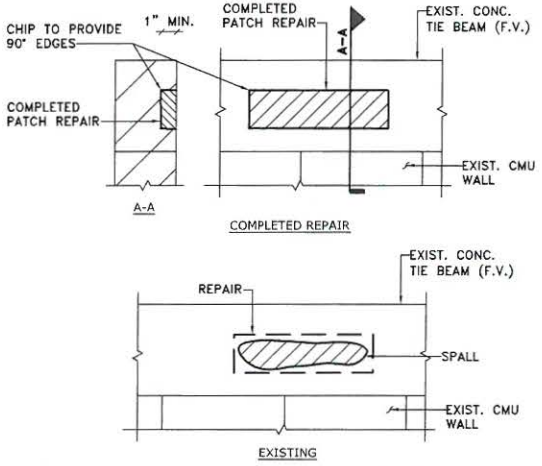
**1 SECTION AT PATH TO WOMAN'S CLUB**  
SCALE: 3/4" = 1'-0"

REVISIONS						 7300 N Kendall Drive, Suite 400 Miami, Florida 33168 Phone: (305) 970-2390 Fax: (305) 970-2391 Certificate of Authorization No. 7184	<b>CITY OF MIAMI</b> <b>CAPITAL IMPROVEMENTS PROGRAM</b>		<b>SECTIONS AND DETAILS</b>	SHEET NO. S-7
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION		PROJECT NAME	PROJECT ID		
						MIAMI WOMAN'S CLUB SEAWALL & BAYWALK	B-30731			

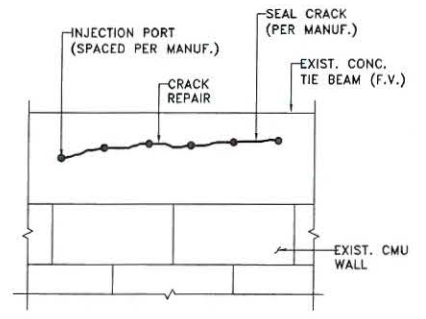




- CONCRETE DELAMINATION/SPALL REPAIR NOTES: (WITH REINFORCEMENT)**
1. PRIOR TO COMMENCING THE REPAIRS, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES.
  2. PRIOR TO COMMENCING DEMOLITION, CONTRACTOR SHALL INSTALL SHORING AS SHOWN ON PLAN.
  3. REMOVE DETERIORATED, POROUS, LOOSE, DELAMINATED CONCRETE ABOVE OXIDIZED REINFORCING STEEL. BEGIN WITH 1/2" DEEP SAWCUT OF PERIMETER. USE ONLY LIGHT ELECTRIC CHIPPING HAMMERS. NO HAMMER DRILLS. NO FEATHER EDGES PERMITTED. MAKE ALL REPAIRS SQUARE OR RECTANGULAR.
  4. ONCE INITIAL REMOVALS ARE MADE, PROCEED WITH THE UNDERCUTTING OF ALL EXPOSED OXIDIZED (CORRODED) BARS.
  5. PROVIDE MINIMUM 1" CLEARANCE BETWEEN EXPOSED REBARS AND SURROUNDING CONCRETE.
  6. CONCRETE REMOVAL SHALL EXTEND ALONG THE BARS TO A LOCATION ALONG THE BARS FREE OF BOND INHIBITING CONDITIONS, AND WHERE THE BAR IS WELL BONDED TO SOUND, NON-POROUS SURROUNDING CONCRETE.
  7. IF UNOXIDIZED REINFORCING STEEL IS EXPOSED DURING THE UNDERCUTTING PROCESS, CARE SHALL BE TAKEN NOT TO DAMAGE THE BAR'S BOND TO SURROUNDING CONCRETE. IF BOND BETWEEN BAR AND CONCRETE IS BROKEN, UNDERCUTTING OF THE BAR SHALL BE REQUIRED.
  8. CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IF SECTION LOSS IS GREATER THAN 20% AND/OR MORE THAN 2" UNDERCUTTING OF THE REINFORCING IS NECESSARY.
  9. SANDBLAST STEEL OR MECHANICALLY REMOVE CORROSION, SPLICE NEW BARS OF EQUAL SIZE WHERE GREATER THAN 15% TO 20% SECTION LOSS OCCURS. SPLICE LENGTH SHALL BE A MINIMUM OF 24 BAR DIAMETERS. POWER TOOL CLEANING MAY BE USED FOR SMALL SECTIONS.
  10. COAT ALL EXPOSED REINFORCING AND CONCRETE SURFACES WITH SIKA ARMATEC 110 EPOCEM (OR EQUIVALENT).
  11. PATCH WITH SIKATOP 123 PLUS (OR EQUIVALENT) WITH 3/8" AGGREGATE.



- CONCRETE DELAMINATION/SPALL REPAIR NOTES: (WITHOUT REINFORCEMENT)**
1. PRIOR TO COMMENCING THE REPAIRS, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES.
  2. CONTRACTOR SHALL NOTIFY THE ENGINEER OF RECORD IF SECTION LOSS IS GREATER THAN 20%.
  3. FOLLOW MANUFACTURER'S INSTRUCTIONS FOR SURFACE PREPARATION AND INSTALLATION.
  4. PATCH WITH SIKATOP 123 PLUS (OR EQUIVALENT).



- CRACK REPAIR NOTES:**
1. PRIOR TO COMMENCING THE REPAIRS, CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS AND NOTIFY ENGINEER OF RECORD OF ANY DISCREPANCIES.
  2. INJECT ALL CRACKS WITH SIKA CRACK FIX (OR EQUIV.) AND SIKADUR 32 HI-MOD LV (OR EQUIV.) IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

**1 CONCRETE REPAIR DETAILS**  
N.T.S.



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



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**CITY OF MIAMI**  
**CAPITAL IMPROVEMENTS PROGRAM**

PROJECT NAME	PROJECT ID
MIAMI WOMAN'S CLUB SEAWALL & BAYWALK	B-30731

**CONCRETE REPAIR DETAILS**

SHEET NO.  
S-8