

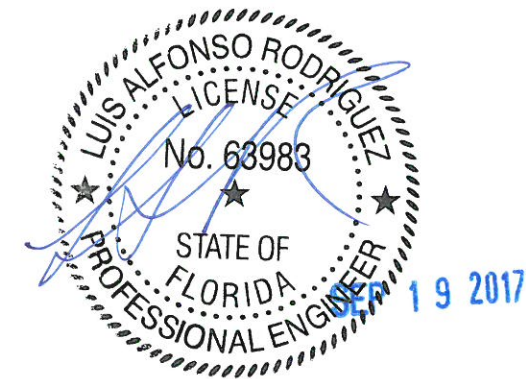
ITEM	PAY ITEM	DESCRIPTION	UNITS	QUANTITY
1	101-1	MOBILIZATION	LS	1
2	104-10-3	SILT FENCE	LF	331
3	104-11	FLOATING TURBIDITY BARRIER	LF	175
4	104-18	INLET PROTECTION SYSTEM	EA	2
5	110-1-1	CLEARING AND GRUBBING	AC	0.084
6	120-6	EMBANKMENT (FILL TO REGRADE GREEN AREAS ALONG WALKWAY)	CY	9
7	425-2-101	HYDRO INTERNATIONAL - MODEL 4-FT DIAMETER DOWNSTREAM DEFENDER <sup>4</sup>	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	36
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	120
17		5' WIDE 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		SEA WALL DEMOLITION	SF	650
21		SEA WALL REPAIR	SF	150
22		RIVER ROCK	SF	510
23		CAST-IN-PLACE CONCRETE	CY	212
24	530-2	RIP-RAP	CY	14
25	580-332-25	TREE REMOVAL (>48")	EA	8
26	715-511-115	LIGHT POLE COMPLETE SPECIAL DESIGN (15' H), F&I	EA	5
27	721-74-1	TRASH RECEPTACLE (AS PER CITY OF MIAMI GREENWAY STANDARDS)	EA	2
28	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.

<sup>3</sup> 110-1-1 CLEARING AND GRUBBING INCLUDES REMOVAL OF EXISTING PAVEMENT, MISCELLANEOUS CONCRETE (SEAWALL DEMOLITION), ALUMINUM PICKET FENCE, 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.

<sup>4</sup> 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 DOWNSTREAM DEFENDER) INSTALLATION OF HYDRODYNAMIC DEVICES SHALL COMPLY WITH THE MANUFACTURER RECOMMENDATIONS AND SPECIFICATIONS AND WITH FDOT SPECIFICATIONS, SECTION 425 FOR INSTALLATION OF MANHOLES.



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
10/9/2015	AC	<sup>2</sup> RIP RAP CLARIFICATIONS			
11/23/2016	AC	<sup>3</sup> REVISED PICKET FENCE QUANTITY			
9/19/2017	AC	<sup>4</sup> REVISED DRAINAGE			



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

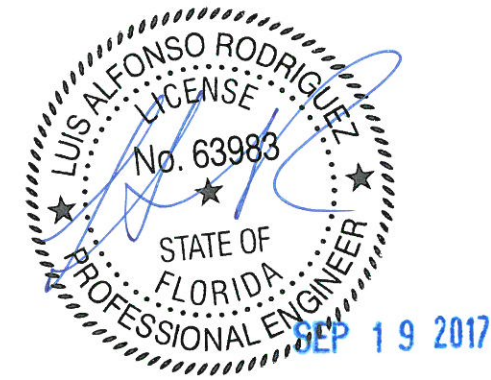
PROJECT NAME	PROJECT ID
MIAMI WOMAN'S CLUB SEAWALL & BAYWALK	B-30731

SHEET NO.  
**2**

**SUMMARY OF QUANTITIES**

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.



REVISIONS

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION



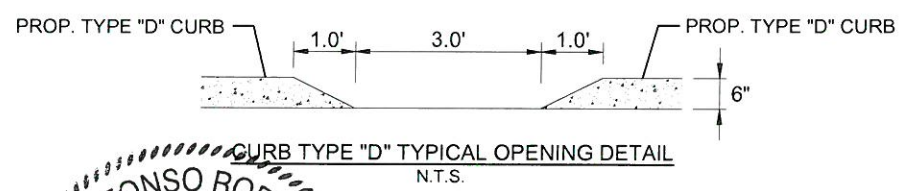
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<b>CITY OF MIAMI</b>	
<b>CAPITAL IMPROVEMENTS PROGRAM</b>	
PROJECT NAME	PROJECT ID
MIAMI WOMAN'S CLUB SEAWALL & BAYWALK	B-30731

**GENERAL NOTES**

SHEET NO.  
3

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

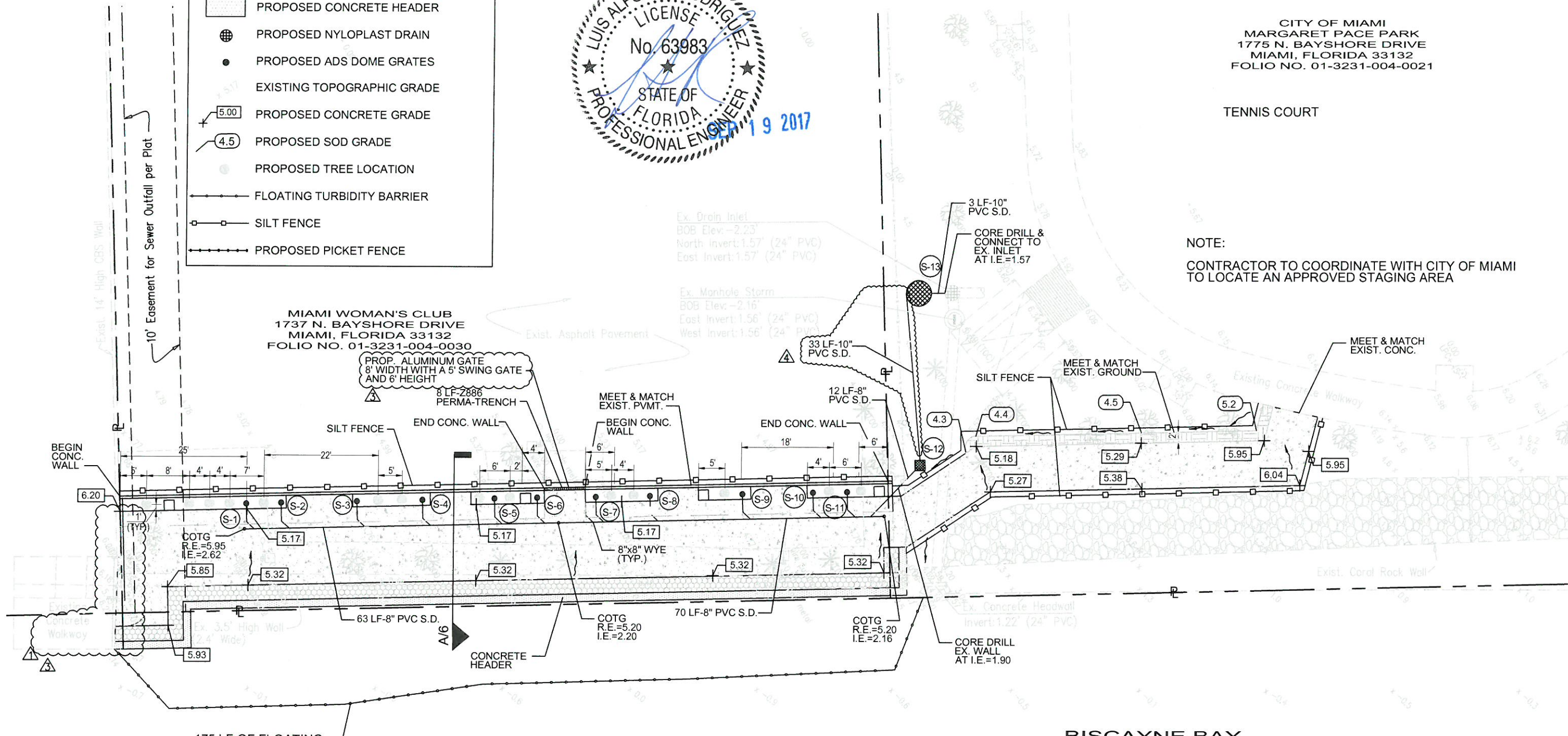
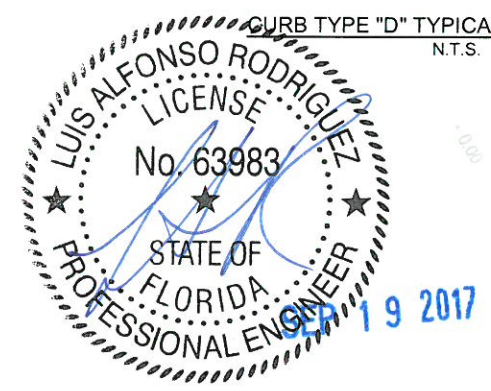


FOLIO NO.	01-3231-004-0030	01-3231-004-0021
TOTAL PROJECT AREA (5081 SF)	3516 SF	1565 SF
TOTAL PROJECT AREA ABOVE WATER	589 SF	5 SF
TOTAL PROJECT AREA LANDSIDE	2927 SF	1570 SF

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

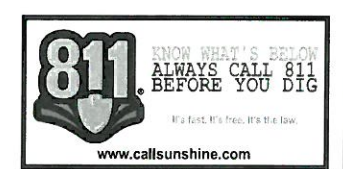
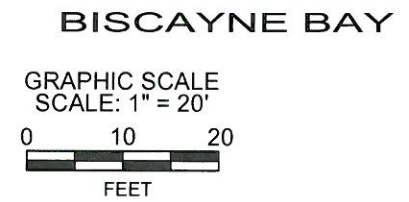
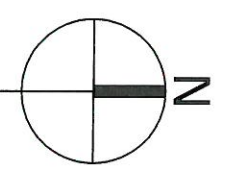
TENNIS COURT

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



175 LF OF FLOATING  
TURBIDITY BARRIER

**CIVIL ENGINEERING PLAN**  
SCALE: 1" = 20'



REVISIONS					
DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
8/3/2015	CAZ	▲ SOUTH PROPERTY LINE REVISION			
11/23/2016	AC	▲ REMOVED PROP. PICKET FENCE			
9/19/2017	AC	▲ REVISED DRAINAGE PIPE			

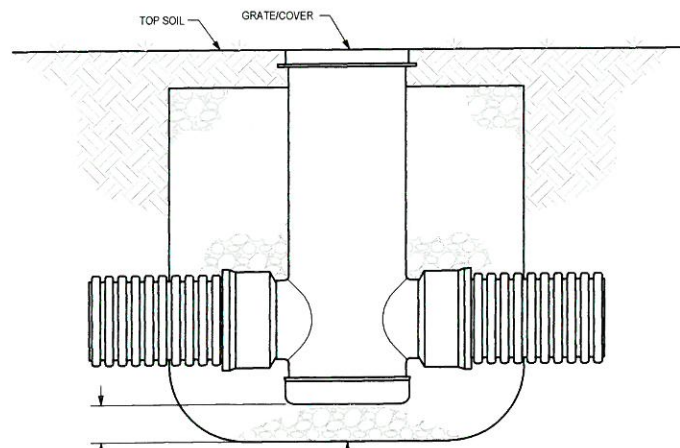
**engineering**

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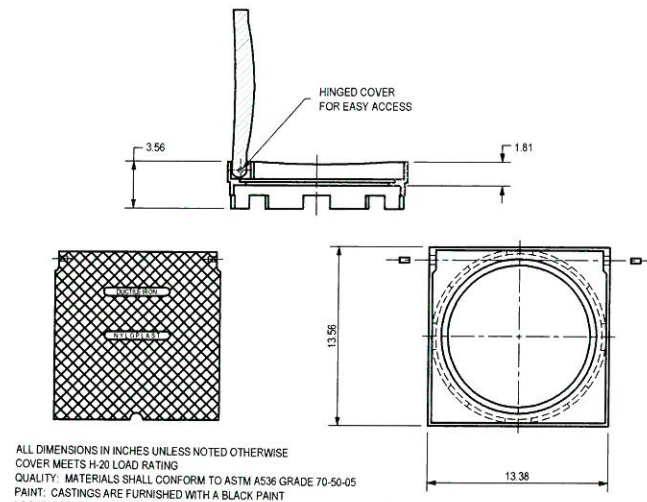
CITY OF MIAMI CAPITAL IMPROVEMENTS PROGRAM	
PROJECT NAME	PROJECT ID
MIAMI WOMAN'S CLUB SEAWALL & BAYWALK	B-30731

<b>ENGINEERING PLAN</b>		SHEET NO.
		4



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

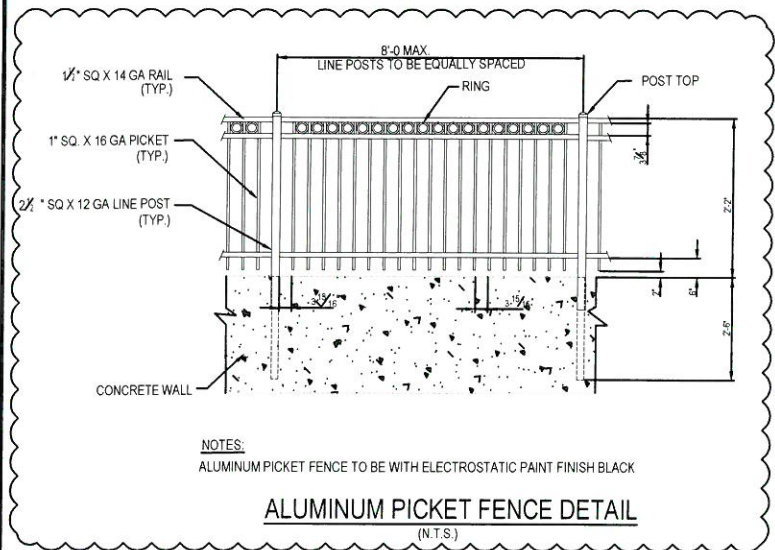
THE BACKFILL MATERIAL SHALL BE CRUSHED STONE OR OTHER GRANULAR MATERIAL MEETING THE REQUIREMENTS OF CLASS II MATERIAL AS DEFINED IN ASTM D2321, OR AS DETERMINED BY LOCAL STANDARDS & SITE ENGINEER. BEDDING & BACKFILL FOR SURFACE DRAINAGE INLETS SHALL BE PLACED & COMPACTED UNIFORMLY IN ACCORDANCE WITH ASTM D2321.



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

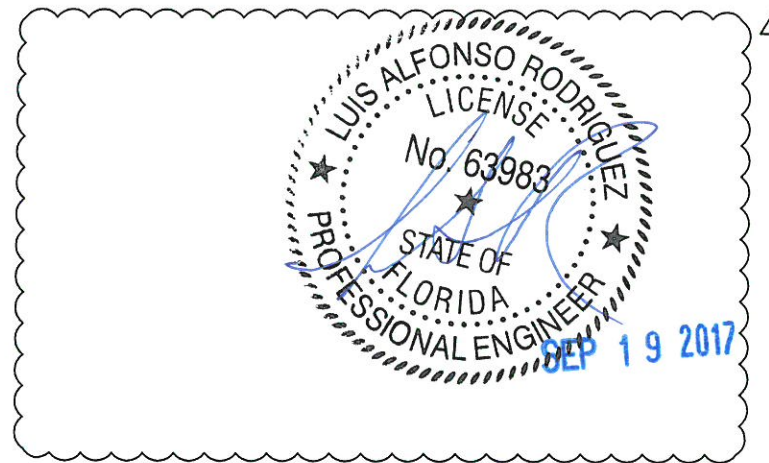
ALL DIMENSIONS IN INCHES UNLESS NOTED OTHERWISE  
COVER MEETS H-20 LOAD RATING  
QUALITY: MATERIALS SHALL CONFORM TO ASTM A536 GRADE 70-50-05  
PAINT: CASTINGS ARE FURNISHED WITH A BLACK PAINT  
LOCKING DEVICE AVAILABLE UPON REQUEST SEE DRAWING NO. 7001-110-033

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 OPTION
S-2	8" YARD DRAIN	4.90			2.40				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTION
S-3	8" YARD DRAIN	4.90			2.40				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTION
S-4	8" YARD DRAIN	4.90			2.40				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTION
S-5	8" YARD DRAIN	4.90			2.40				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTION
S-6	8" YARD DRAIN	4.90			2.40				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTION
S-7	8" YARD DRAIN	4.90			2.40				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTION
S-8	8" YARD DRAIN	4.90			2.40				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTION
S-9	8" YARD DRAIN	4.90			2.40				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTION
S-10	8" YARD DRAIN	4.90			2.40				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTION
S-11	8" YARD DRAIN	4.90			2.40				NYLOPLAST DRAIN BASIN W/ DOME GRATE, HINGED DESIGN & LOCKING OPTION
S-12	12" DRAIN BASIN	4.00		1.85		1.85			NYLOPLAST DRAIN BASIN W/ SOLID DUCTILE IRON COVER, HINGED DESIGN & LOCKING OPTION
S-13	4 FT-DIAMETER DOWNSTREAM DEFENDER	5.07	1.57		1.57		(-) 4.93		HYDRO INTERNATIONAL - MODEL 4-FT DIAMETER DOWNSTREAM DIAMETER

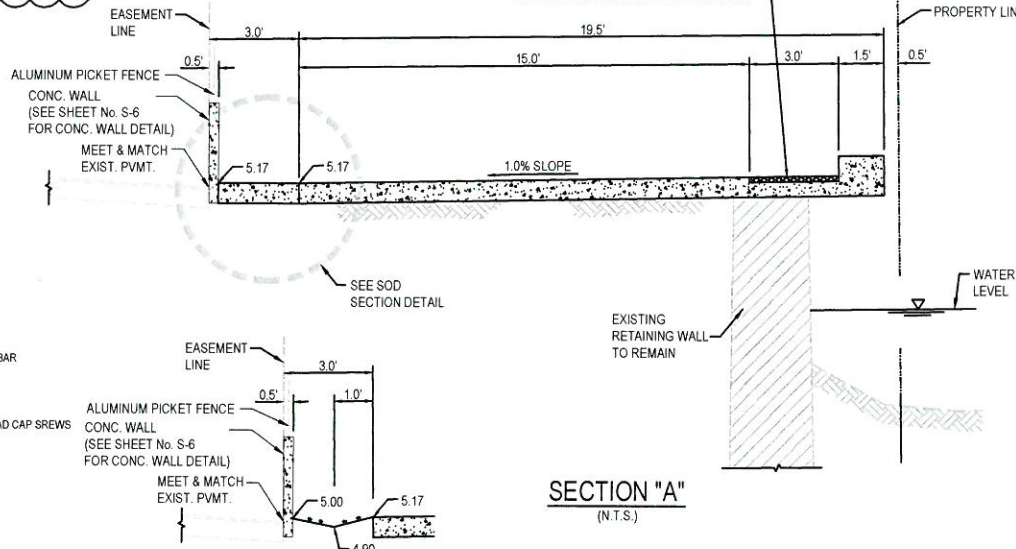


NOTES:  
ALUMINUM PICKET FENCE TO BE WITH ELECTROSTATIC PAINT FINISH BLACK

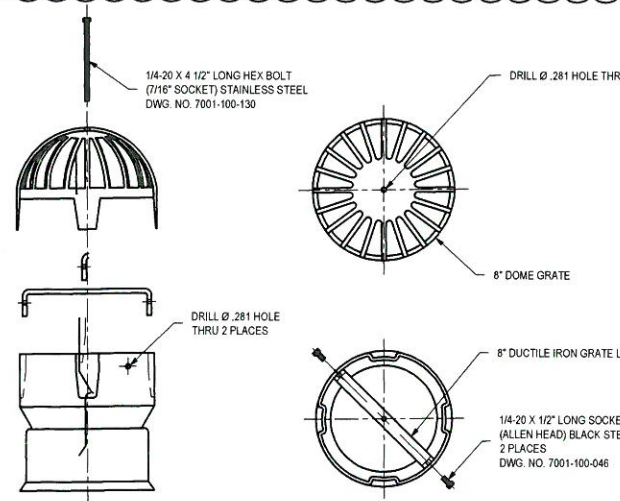
**ALUMINUM PICKET FENCE DETAIL**  
(N.T.S.)



3/4" DIA. RIVER ROCK SET IN MORTAR BED, UNIFORMLY GRADED W/ 1/2" EXPOSED AGGREGATE FINISH MEETING ADA STDS.

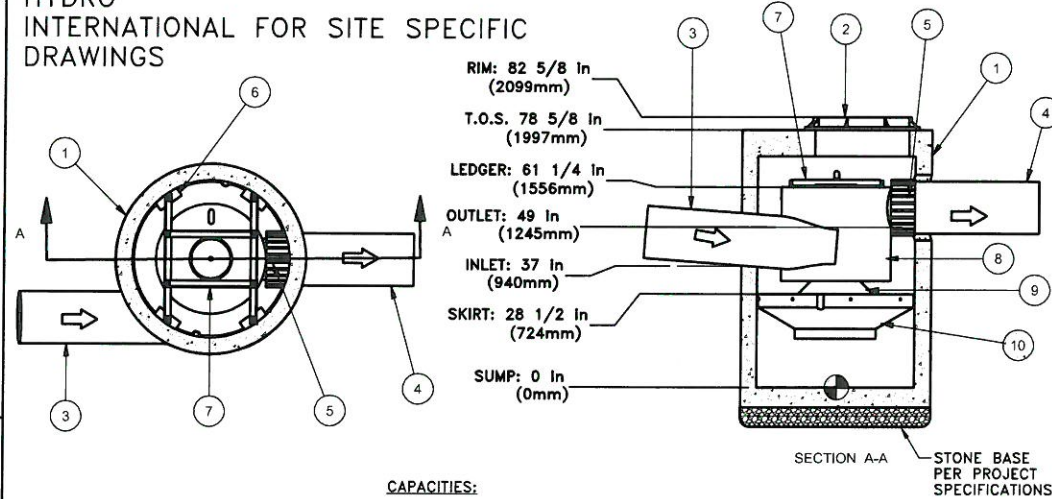


**SOD SECTION DETAIL**  
(N.T.S.)



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

NOT FOR CONSTRUCTION - CONTACT HYDRO INTERNATIONAL FOR SITE SPECIFIC DRAWINGS



- RIM: 82 5/8 in (2099mm)
- T.O.S. 78 5/8 in (1997mm)
- LEDGER: 61 1/4 in (1556mm)
- OUTLET: 49 in (1245mm)
- INLET: 37 in (940mm)
- SKIRT: 28 1/2 in (724mm)
- SUMP: 0 in (0mm)

**CAPACITIES:**

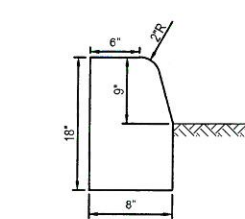
- Peak treatment flow: 3.0 cfs (85 l/s)
- Sediment storage capacity: 0.70 Cu. yd. (0.54 cu. m.)
- Oil storage capacity: 70 Gal. (265 liters)

**ADDITIONAL DESIGN INFORMATION:**

- 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.
- 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). Headloss will increase with smaller inlet pipes.
- Sediment shall be stored in a zone that is isolated from the main flow path and protected from re-entrainment by the benching skirt.
- Dimensions are general and intended for guidance only.

ITEM	DESCRIPTION	SIZE
1	PRECAST MANHOLE (BY HYDRO VIA PRECASTER)	48 in
2	FRAME AND COVER	30 in
3	INLET PIPE (BY OTHERS) *	12 in
4	OUTLET PIPE (BY OTHERS) *	12 in
5	PIPE COUPLING (BY OTHERS)	
6	LEDGER ANGLE	
7	SUPPORT FRAME	
8	DIP PLATE	
9	CENTER SHAFT AND CONE	
10	BENCHING SKIRT	

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**9" TYPE "D" CURB DETAIL**  
(N.T.S.)

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.

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**

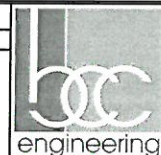


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stormwaterinquiry@hydro-int.com

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

**REVISIONS**

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION
11/23/2016	AC	REVISD ALUMINUM PICKET FENCE DETAIL			
9/19/2017	AC	REMOVED DRAINAGE DETAIL			



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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