

SECTION NO: 86039000
S.R. NO(S): 814 (Atlantic Blvd)
COUNTY: Broward
FM NO.(S): 426010-1-58-01
426011-1-58-01

DISTRICT FOUR (4) AMENDMENT # THREE (3)
TO STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION AND
THE CITY OF COCONUT CREEK LANDSCAPE
INCLUSIVE MEMORANDUM OF AGREEMENT

This is Amendment Number Three to the Agreement dated May 27, 2009, made and entered into this 23 day of May 2011 by and between the State of Florida Department of Transportation hereinafter called the "DEPARTMENT" and the City of Coconut Creek, a political subdivision of the State of Florida, hereinafter called the "AGENCY".

WHEREAS, the parties entered into the Inclusive Maintenance Agreement dated May 27, 2009, for the purpose of maintaining the landscape improvements by the AGENCY on various State Roads including State Road 814 (Atlantic Blvd); and,

WHEREAS, the DEPARTMENT and AGENCY have agreed to add additional landscape improvements to be installed on State Road 814 (Atlantic Blvd) in accordance with the above referenced Agreement;

NOW THEREFORE, for and in consideration of mutual benefits that flow each to the other, the parties covenant and agree as follows:

1. Pursuant to paragraph 6 of the Inclusive Agreement for State Road 814 (Atlantic Blvd) dated May 27, 2009, the AGENCY has decided to construct additional landscape improvements or to modify an improvement located as indicated in Exhibit A, on SR 814 (Atlantic Blvd) from 1,750ft west of Lyons Road (M.P. 0.899) to Florida's Turnpike (M.P. 1.715) in accordance with the plans attached as Exhibit B.
2. The AGENCY has received two (2) grants on SR 814 (Atlantic Blvd), one for two hundred thousand dollars and no cents (\$200,000.00) from 1750ft west of Lyons Road (M.P. 0.899) to Lyons Road (M.P. 1.230); and another for three hundred thousand dollars and no cents (\$300,000) from Lyons Road (M.P. 1.230) to Florida's Turnpike (M.P. 1.715).
3. The AGENCY shall agree to install landscape as provided in Exhibit B; and maintain the landscape improvements in accordance with the Inclusive Maintenance Agreement dated May 27, 2009 and as provided in the attached Exhibit C, Maintenance Plan.
4. AGENCY shall utilize the U.S. Department of Homeland Security's E-Verify system, in accordance with the terms governing use of the system, to confirm the employment eligibility of;

- (1) All persons employed by the AGENCY during the term of the Contract to perform employment duties within Florida; and
- (2) All persons, including subcontractors, assigned by the AGENCY to perform work pursuant to the contract with the DEPARTMENT.

Except as modified by this amendment, all terms and conditions of the Agreement shall remain in full force and effect.

Exhibits

- Exhibit A – Landscape Improvements Location & Maintenance Boundaries
- Exhibit B – Landscape Improvements Plans
- Exhibit C – Maintenance Plan for Landscape Improvements
- Exhibit D – Approximate Cost for Landscape Improvements

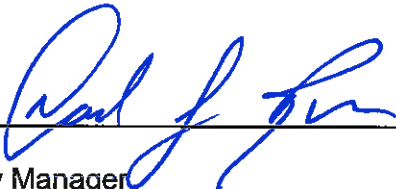
In Witness whereof, the parties hereto have executed with this Amendment effective the 23 day May year written and approved.

CITY OF COCONUT CREEK

State of Florida
Department of Transportation

BY:

BY:



City Manager



Director of Transportation Development




ATTEST:




City Clerk

5/16/11
Date



District General Counsel

5/23/2011
Date



Agency Attorney

5/16/11
Date

NANCY A. COUSINS

SECTION NO: 86039000
S.R. NO(S): 814 (Atlantic Blvd)
COUNTY: Broward
FM NO.(S): 426010-1-58-01
426011-1-58-01

EXHIBIT A

**PROJECT LOCATION AND LANDSCAPE IMPROVEMENTS
MAINTENANCE BOUNDARIES**

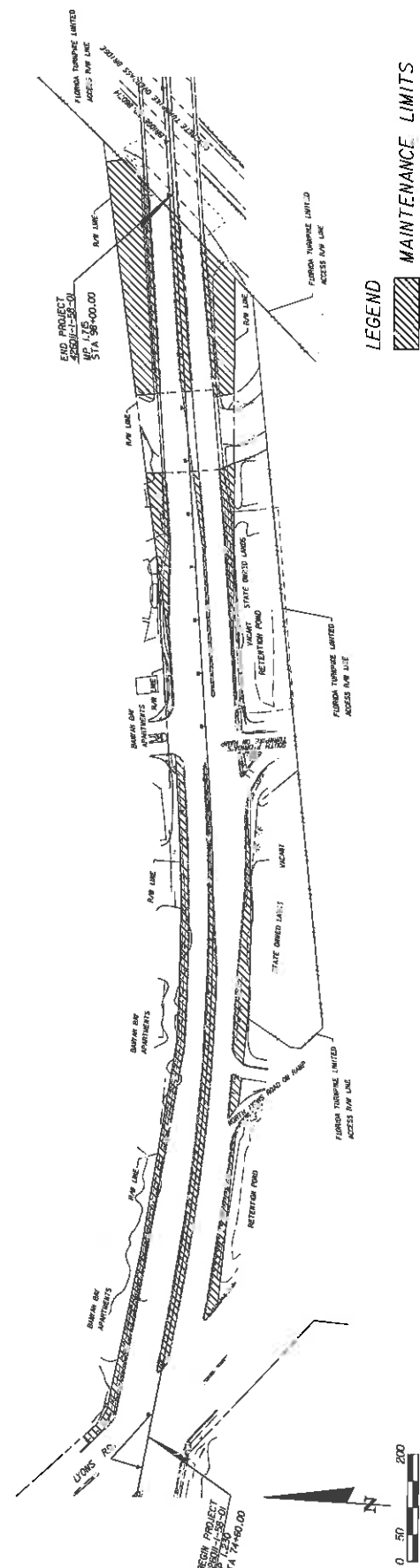
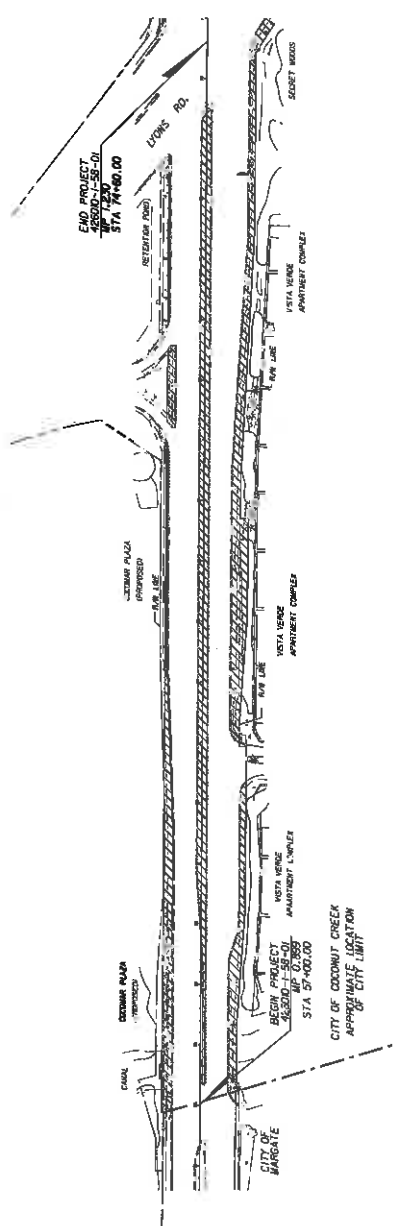
I. GRANT PROJECT LOCATION(S) INCLUDE THE FOLLOWING:

State Road 814 (Atlantic Blvd) from 1,750ft west of Lyons Road (M.P. 0.899) to Florida's Turnpike (M.P. 1.715)

**II. INCLUSIVE LIMITS OF LANDSCAPE IMPROVEMENTS MAINTENANCE FOR
SR 814 (ATLANTIC BLVD):**

State Road 814 (Atlantic Blvd) from East Hemingway Court (M.P. 0.753) to Florida's Turnpike (M.P. 1.715)

**III. LANDSCAPE IMPROVEMENTS MAINTENANCE MAP FOR THIS GRANT
PROJECT: SEE ATTACHED**



LEGEND
 MAINTENANCE LIMITS

FM# 426010-1-58-01

DATE	BY	DESCRIPTION	REVISIONS

MILLER LEGG
 STATE ENGINEERING & ARCHITECTURE, INC.
 514 S. W. 10TH ST., SUITE 200
 MIAMI, FLORIDA 33135
 (305) 571-1111

CITY OF COCONUT CREEK
 ROAD NO. 814
 COUNTY BROWARD
 MILLER LEGG PROJECT ID 10-00249

SHEET NO. A

SECTION NO: 86039000
S.R. NO(S): 814 (Atlantic Blvd)
COUNTY: Broward
FM NO.(S): 426010-1-58-01
426011-1-58-01

EXHIBIT B

LANDSCAPE IMPROVEMENT PLANS

The AGENCY agrees to install the landscape improvements in accordance with the plans and specifications attached hereto and incorporated herein.

**Please see attached plans prepared by: Miller Legg and Associates
Brian Shore, RLA**

Dated: March 8, 2011

CONTRACT PLANS

BROWARD COUNTY

STATE ROAD NO. 814 / ATLANTIC BOULEVARD

F.M. 426010-1-58-01 FROM WEST OF LYONS ROAD (M.P. 0.899) TO LYONS ROAD (M.P. 1.230)
 F.M. 426011-1-58-01 FROM LYONS ROAD (M.P. 1.230) TO FLORIDA'S TURNPIKE (M.P. 1.715)

LANDSCAPE BEAUTIFICATION PROJECT

CORAL SPRINGS

END PROJECT
 F.M. 426011-1-58-01
 M.P. 1.715 STA. 98+00.00
 BEGIN PROJECT
 F.M. 426011-1-58-01
 M.P. 1.230 STA. 74+60.00

TAMARAC

END PROJECT
 F.M. 426010-1-58-01
 M.P. 1.230 STA. 74+60.00
 BEGIN PROJECT
 F.M. 0.899 STA. 57+00.00



City of Coconut Creek
 4800 Vics Cypress Road
 561-973-6770 Fax: 561-973-6774
 www.coconutcreek.org

Mayor: Lisa K. Annison
 Vice Mayor: Lou Sabone
 Commissioner: Marilyn Garber
 Commissioner: Becky Tooley
 Commissioner: Mikkie Belvedere
 City Manager: David J. Rivera

GOVERNING STANDARDS AND SPECIFICATIONS:
 FLORIDA DEPARTMENT OF TRANSPORTATION,
 DESIGN STANDARDS DATED 2004,
 STANDARD SPECIFICATIONS FOR ROAD AND
 BRIDGE CONSTRUCTION DATED 2004,
 AS AMENDED BY CONTRACT DOCUMENTS.

APPLICABLE DESIGN STANDARDS MODIFICATIONS: D-0-D-11
 For design standards modifications click on "Design
 Standards" in the following web site:
 http://www.dtd.state.fl.us/roads/standards/standards.htm

WESTERN HALF F.M. 426010-1-58-01
 EASTERN HALF F.M. 426011-1-58-01

INDEX OF PROJECT PLANS

SHEET NO. SHEET DESCRIPTION

LD-1 KEY SHEET

LD-2 TABULATION OF QUANTITIES/PLANT SCHEDULE

LD-3 LANDSCAPE GENERAL NOTES

LD-4 and LD-6 LANDSCAPE DETAILS

LD-5 HARDSCAPE DETAILS

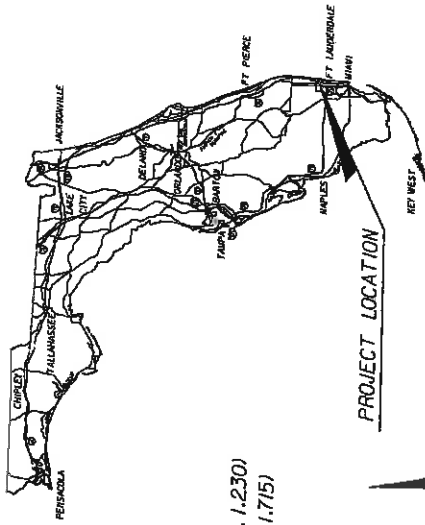
LD-7 and LD-8 LANDSCAPE DETAILS

LD-9 thru LD-15 LANDSCAPE PLAN

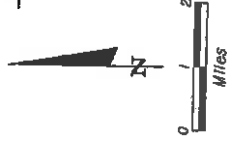
LD-16 and LD-20 IRRIGATION NOTES

LD-21 thru LD-27 TRAFFIC CONTROL NOTES

LD-28 and LD-31 TRAFFIC CONTROL DETAIL



PROJECT LOCATION

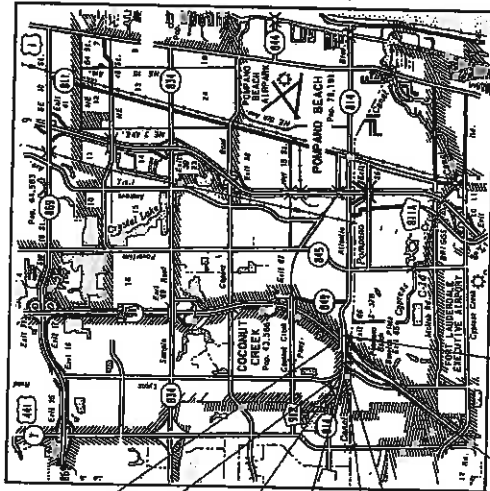


PLANS PREPARED BY:

MILLER LEGG
 5781 N. Andrews Way, Fort Lauderdale, Florida 33309-2364
 954-436-7800 Fax: 954-436-8664 www.millerlegg.com
 Certification of Authorization: LD000037

NOTE: THE SCALE OF THESE PLANS MAY
 HAVE CHANGED DUE TO REPRODUCTION.
 DESIGN SPEED=45 MPH

Miller Legg



BEGIN BRIDGE END BRIDGE
 STA. 98+03.00 STA. 102+792.35

PROJECT LENGTH: 0.816 MILES

CITY OF COCONUT CREEK PROJECT MANAGER: PAMELA STANTON, RLA
 MILLER LEGG PROJECT MANAGER: BRIAN R. SHORE, RLA

SHEET NO.
 LD-1

TABULATION OF QUANTITIES / PLANT SCHEDULE

PAY ITEM NO.	PAY ITEM SYM	BOTANICAL NAME	COMMON NAME	INSTALLED SIZE	MAX. MAINTAINED SIZE	SPACING	REMARKS	NATIVE	DROUGHT TOLERANCE	SHEET NUMBERS												TOTAL THIS SHEET									
										LD-3	LD-4	LD-5	LD-6	LD-7	LD-8	LD-9	LD-10	LD-11	LD-12	LD-13	LD-14										
107-1 LITTER REMOVAL AND DISPOSAL																															
107-1.1 MOWING																															
288-70 LINE ROCK BASE																															
623-2 3" SIDEWALK																															
623-3 2" PATTERN CONCRETE																															
590-1 LIME ROCK BASE																															
590-2 6" SIDEWALK																															
590-3 PERFORMANCE TURF																															
590-4 LANDSCAPE LARGE																															
590-5 LANDSCAPE SMALL																															
590-6 IRRIGATION																															

Pay Items:

101-1: MOBILIZATION - Includes all the cost of all activities associated with preparatory work and operations in mobilizing for beginning work on the project.

102-1: MAINTENANCE OF TRAFFIC - Includes all the cost of all activities associated with but not limited to the maintenance / replacement of existing signs during construction, work zone signs, arrow panels, off-duty officer, barricades, dust control, and operations for maintaining traffic flow.

107-1: LITTER REMOVAL - Includes all activities associated with litter removal within proposed landscape areas as shown in landscape plans and notes.

107-2: MOWING - Includes all activities associated with mowing in meadows within project limits as shown in landscape plans and notes.

110-1-1: CLEARING AND GRUBBING - Includes all Clearing and Grubbing activities associated with proposed project limits as shown in landscape plans and notes.

285-70: LIME ROCK BASE - Includes installation of base material as shown in plans and details.

522-2: 6" SIDEWALK - Includes installation of concrete sidewalk as shown in plans and details.

523-1-2: PATTERN CONCRETE - Includes installation of patterned concrete as shown in plan; and details.

570-1: PERFORMANCE TURF - Includes installation and establishment of sod within project limits as outlined within general notes, plans. Sod to be St. Augustine Sod (Stenotaphrum secundatum).

580-1-1: LANDSCAPE SMALL - Includes all activities associated with installation and maintenance of landscape as shown in landscape plans and notes. Mowing to be done twice a month or when sod is greater than 6".

580-1-2: LANDSCAPE LARGE - Includes all activities associated with installation and maintenance of landscape as shown in landscape plans and notes. Mowing to be done twice a month or when sod is greater than 6".

590-70: IRRIGATION - Includes all activities associated with installation and maintenance of irrigation as shown in irrigation plans and notes.

11-2-11
JAMES BROWN

MILLER LEGG		CITY OF COCONUT CREEK		SHEET NO.
5100 North Andrews Way, P.O. Box 1000, Phoenix, AZ 85010-1000 602-955-2000 Fax: 602-955-2001 www.millerlegg.com Date of Issue: 12/20/07 L.A. of Record: Board, Sheet 12.06670		MILLER LEGG PROJECT ID		LD-2
100-002-19		COUNTY		
BROWARD		ROAD NO.		
814		PROJECT NO.		
10-002-19		DATE		
12/20/07		DESCRIPTION		
TABULATION OF QUANTITIES / PLANT SCHEDULE		DATE		
BY		DATE		

PROJECT GENERAL NOTES:

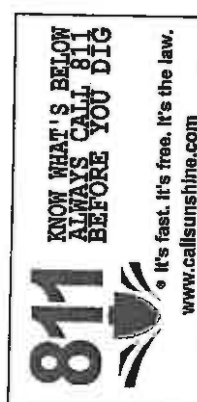
- The Contractor shall visit the site prior to placing the bid to assess the amount of planting required for the general conditions as they relate to traffic control, access to the site and other challenges of the Project.
- All above survey sketch information shown per FDOT Project File #P3002-1-52 is the best available information available at the time of preparation of this information. The Contractor shall verify the location, description, and dimensions of all features shown on the survey and data is not geographically located within any survey diagrams. Features such as utility lines, manholes, and other utilities, have been compiled and incorporated from as-built data obtained from various sources. Geometric data for manholes has been conducted to add contractor in construction of landscape features. Contractor to verify that all manholes are shown as reference. Baseline shown on plans is provided for reference only and is an assumed centerline of corridor.
- All public land corners and monuments within the limits of construction are to be protected by Contractor as follows: Corners and monuments in conflict with the work and in danger of being damaged, removed or obscured shall be properly referenced by a registered-land surveyor in accordance with the rules and regulations of the Florida Board of Professional Land Surveyors prior to beginning work at the site. The Contractor shall refer to the survey for reference, and restore upon completion of the work. All such corners and monuments shall be clearly marked with survey monuments. Contractor to sign and sealed copy of the Land Surveyor's reference drawing.
- The Contractor shall comply with all state codes and ordinances. Contractor shall be responsible for obtaining all applicable permits unless otherwise directed by the City.
- The Contractor shall submit a site plan showing the location of all existing signs, including photos to the City prior to installation. Any existing signs damaged by the contractor during construction, shall be replaced by the Contractor at no additional cost to the City or FDOT.
- Contractor is to notify the City/FPDOT, who shall notify the State's Permit Office at 850-480-4961 at least 7 calendar days in advance of a DOT Set-up that will impact Overweight/Overheight Vehicles.
- Contractor shall remove and dispose of existing sod and surplus materials off-sites or as directed by the City. All existing sod within the right-of-way shall be removed for landscape treatments or removed for tree installation shall be re-used in the formation of the proposed water infiltration.
- CLEANING AND GRUBBING:**
 - SOD: includes removal of existing sod within medians and areas where proposed plant material is specified within the right-of-way unless otherwise noted.
- IRIGATION:** include: protection of existing irrigation systems within the right of way. Contractor shall be responsible for repair of damaged systems.
- SIGHT VISIBILITY CLEAR ZONES:** on the main travel/through lanes for this project are based on a design speed of 45 mph.

ENVIRONMENTAL NOTES:

- The Contractor shall review environmental requirements of any proposed staging areas with the City and submit to the City and submit to the FDOT District Environmental Permits Coordinator at least seventy-two (72) hours prior to use.
- Contractor shall submit to City a Stormwater Prevention Pollution Protection Plans (S.W.P.P.P.) to City for review and submit to appropriate agencies with copies to FDOT.
- Any material to be stockpiled for periods greater than 24 hours shall be protected by appropriate erosion control devices. No material shall be stockpiled between salt fences and water bodies.
- All access material as designated by the City is to be deposited by the Contractor in areas provided by him within 72 hours of being deposited in the construction area and at the Contractor's expense.
- The Contractor is responsible for keeping existing and new rights clean of planting soil, debris, etc. during the construction at no additional cost to the City. Contractor shall submit plan for protection of rights and for erosion during construction.
- If necessary the Contractor shall use a street sweeper (with water) or other equipment capable of controlling and removing dirt or slant. Approval of the use of such equipment is contingent upon its demonstrated ability to do the work.

UTILITIES GENERAL NOTES:

- The Contractor shall verify the location, depth, and utility owner and depth of all utility lines and manholes before construction begins. All utility lines and manholes shall be clearly marked with survey monuments. Contractor shall be responsible for obtaining all applicable permits unless otherwise directed by the City.
- All existing utilities are to remain.
- Contractor shall explore by hand digging and expose all utilities located within 5' of all proposed trees and plants.



UTILITIES GENERAL NOTES:

- Two full business days prior to digging, the Contractor shall call Sunshine State One Call of Florida, telephone number 811, and the utility owner and depth of all utility lines and manholes before construction begins. All utility lines and manholes shall be clearly marked with survey monuments. Contractor shall be responsible for obtaining all applicable permits unless otherwise directed by the City.
- All existing utilities are to remain.
- Contractor shall explore by hand digging and expose all utilities located within 5' of all proposed trees and plants.

GOVERNING STANDARDS:

- Florida Department of Transportation (FDOT) DESIGN STANDARDS AND SPECIFICATIONS; Contractor to refer to the following:
- FDOT Standard Specifications for Road and Bridge Construction 2010
 - FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System 2010 (English Units)
 - FDOT 2010 Interim Design Standard (D101011)

LANDSCAPE GENERAL NOTES:

- LANDSCAPE:** Installation of plant material shall be performed by a Contractor certified by the Florida Nurserymen, Growers and Landscape Association (FLNGA) as a Certified Landscape Contractor. Any planting activities of trees and/or palms shall be supervised by a Certified Nurseryman, as certified by The International Society of Arboriculture (ISA) and licensed in Broward County.
- SOIL:**
 - For Trees and Shrubs and Groundcover beds: Provide a consultant mix consisting of 50% Sand / 40% Muck / 10% Peat for the planting soil mix.
 - For Palms: Provide a consultant mix consisting of 70% Sand / 30% Muck for the planting soil mix.
 - For Sod areas: Provide a 6" to 12" wear / layer of soil consisting of 70% Sand / 30% Peat mix.

LANDSCAPE GENERAL NOTES (continued):

- SOD:**
 - Provide specified species of sod as shown on plans. All existing turf areas within the medians shall be removed. Replace sod within the medians, outside of planting beds, as indicated on plans. Contractor shall include a 6" to 12" layer or more of existing sod in the areas within the median that are to be sodded. The sod material and placement of the sod shall be as specified on the plans. For the sod, should any new sod be damaged during the course of construction, the Contractor shall be responsible to re-soed the damaged areas and restore the proposed grade. Cost of replacement material shall be included within Mobilization and at the Contractor's expense.
 - All existing areas within areas shall remain unless otherwise specified. The Contractor shall be responsible to re-soed any areas damaged by construction activities. Restoration sod (re-sodding) damaged areas shall match the species of the existing/surrounding sod.
 - MULCH: A consistent 3" layer of aesthetic Grade A mulch or better shall be spread over all planting beds. All mulch beds shall extend to include shown on plans. Contractor to submit sample of mulch to City for acceptance.
- FERTILIZATION:** Contractor shall provide at a minimum, one (1) application at time of planting. A schedule of fertilization based upon the Manufacturer's recommended rates shall be submitted by the Contractor at the pre-construction meeting.

AT TIME OF PLANTING:

- Fertilize with planting tablets 20-10-5 plus urea. Do not place tablets in bottom of holes; tablets shall be 1/8 from the bottom of the rootball.
- ESTABLISHMENT PERIOD OF PLANT MATERIAL:** Fertilizer for dicot trees, shrubs and ground covers shall be 20-10-5 plus urea, 6% phosphorus and 6% potassium with minor elements composition analysis. Fertilizer for palm trees shall be 12-12-12 plus urea, 3% phosphorus, and 1.5% of potassium composition analysis with minor elements. Contractor shall apply granular fertilizer at the manufacturer's recommended rates. Contractor reserves the right to modify N-P-K ratio and soil nutrient product data sheets. For review and acceptance prior to any installation of plant material consistent with the above criteria.

WAITING:

- At a minimum, the Contractor shall provide the following recommended watering schedule beginning immediately after installation of plant material. At the pre-construction meeting, the Contractor shall submit a watering schedule based upon the following recommended rates:
- All watering applications required during Plant Establishment Period and Warranty Period and its source shall be included as part of the unit price for each plant material. Contractor shall adjust watering schedule during heavy rain season upon approval by Project Engineer.

WARRANTY:

- Immediately install, establish and maintain landscaping as indicated in the contract documents. Take responsibility for the proper maintenance, survival and condition of all plants for a period of one year after final acceptance in accordance with FDOT Standard Specifications for Road and Bridge Construction Section 550.

RETIACEMENT MATERIAL:

- shall be subject to all the requirements of the FDOT Standard Specifications for Road and Bridge Construction Section 560.

MAINTENANCE:

- Begin maintenance of all plants immediately after each planting as indicated in the contract documents and in accordance with Standard Specifications Section 560.

KEEP PLANTS WATERED:

- Keep all plants watered, fertilized, mulched, pruned and staked and staked as necessary to assure specified minimum grade of Florida No. 1 through the duration of the project construction period and establishment period.

ENSURE PLANTS ARE MAINTAINED:

- Ensure that the plants are maintained so that they are healthy, vigorous, and undamaged throughout the duration of the project construction period and establishment period.

FOR THE DURATION OF THE ESTABLISHMENT PERIOD:

- For the duration of the establishment period, operator and maintain in good operating condition, all components of any irrigation system installed in compliance with the Contract Documents.

DURING THE ESTABLISHMENT PERIOD:

- During the establishment period, replace any plants that fall below specified minimum grade. Use replacement plants of the same species, size and planting medium as the plant being replaced and as specified in the Contract Documents.

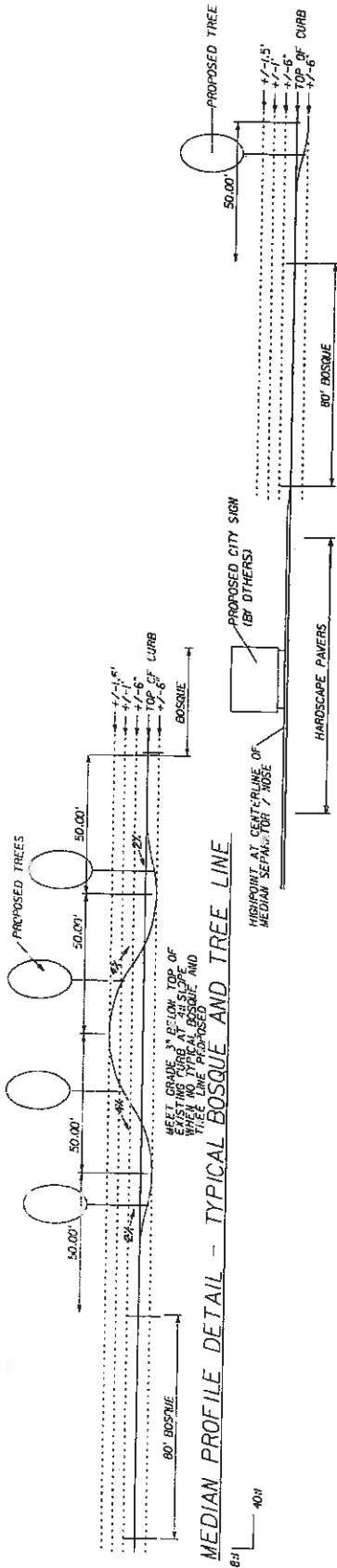
THE CONTRACTOR SHALL FURNISH TO THE CITY:

- The Contractor shall furnish to the City a unit price breakdown for all material, labor, and other items, at the breakdown, add or delete as the materials (adding the unit price breakdown) submitted. This unit price breakdown shall be provided by the Contractor at the Pre-Construction meeting.

NO PLANT MATERIAL WILL BE ACCEPTED:

- Unless the Contractor can provide evidence of cable, stem marks, equipment scars, or when the ball of earth surrounding the roots has been crushed, broken or otherwise damaged.

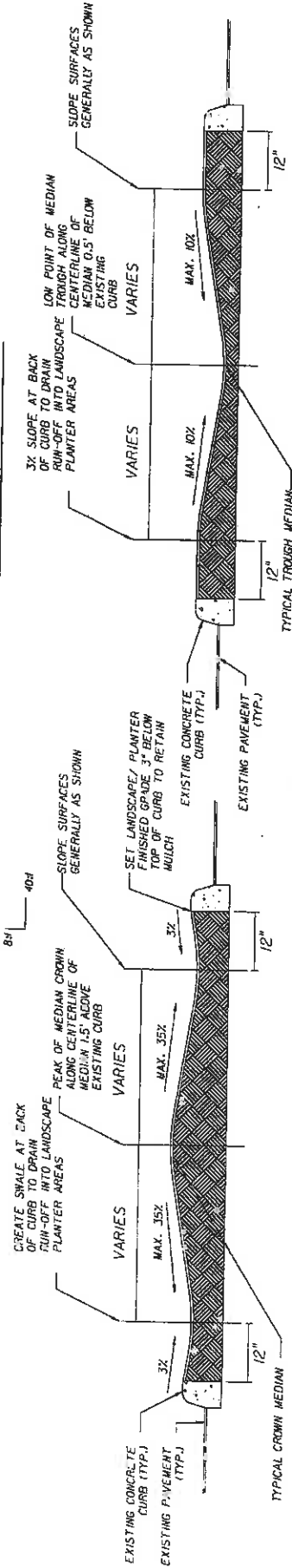
DATE		DESCRIPTION	BY	DATE	DESCRIPTION
REVISIONS					
CITY OF COCONUT CREEK					
ROAD NO.		COUNTY	MILLER LEGG PROJECT ID		SHEET NO.
814		BROWARD	10-00249		LD-3
MILLER LEGG		CITY OF COCONUT CREEK		LANDSCAPE GENERAL NOTES	
3100 N. University Blvd., Suite 100, Ft. Lauderdale, FL 33309-5034 P: 954.343.1000 F: 954.343.1001 www.millerlegg.com		MILLER LEGG PROJECT ID			
Contractor: Miller Legg, LLC Contract No.: 10-00249		10-00249		3/7/2010 8:20:43 AM W:\Projects\2010-00249 - 814\Drawings\LD-3.dwg	



MEDIAN PROFILE DETAIL - TYPICAL BOSQUE AND TREE LINE

N.T.S.

MEDIAN PROFILE DETAIL - BOSQUE AND CITY SIGN

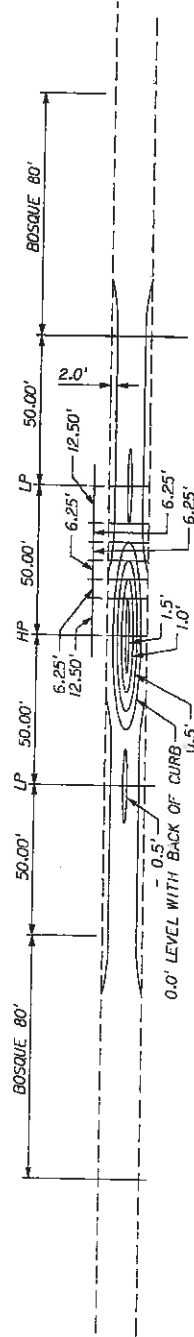


TYPICAL MEDIAN CROSS SECTION - SOD WAVE CREST

N.T.S.

TYPICAL MEDIAN CROSS SECTION - SOD WAVE TROUGH

N.T.S.



MEDIAN CONTOUR DETAIL - TYPICAL BOSQUE AND TREE LINE

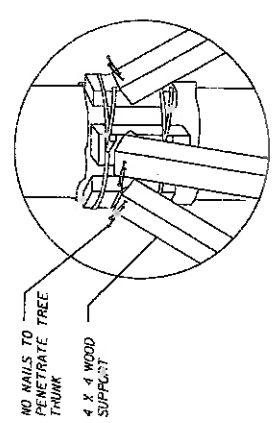
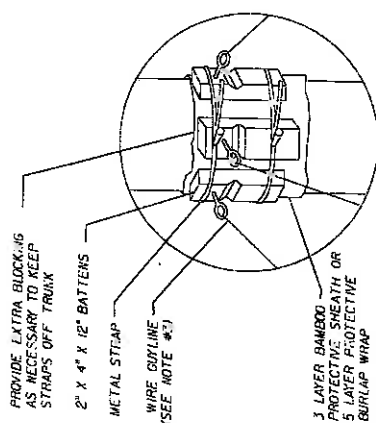
DATE	BY	DESCRIPTION

MILLER LEGG
 570 N. Main Street, Suite 100
 Brownsville, TX 77801
 Tel. 361.663.1111 Fax 361.663.1112
 Cell 361.663.1113 Email: mlegg@mllegg.com

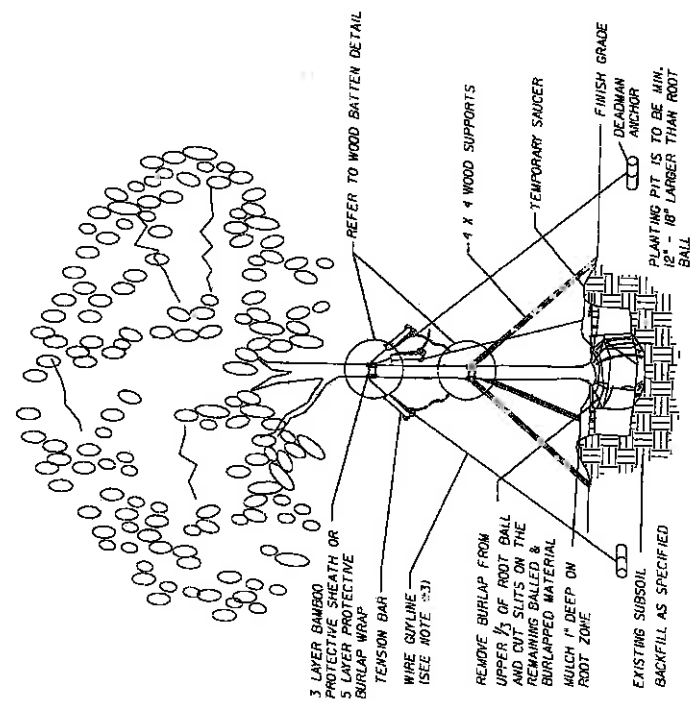
CITY OF COCONUT CREEK
 ROAD NO. 814
 COUNTY BROWARD
 MILLER LEGG PROJECT ID 10-00249

SHEET NO. LD-7

Handwritten signature: James Miller



WOOD BATTEN DETAIL
N.T.S.



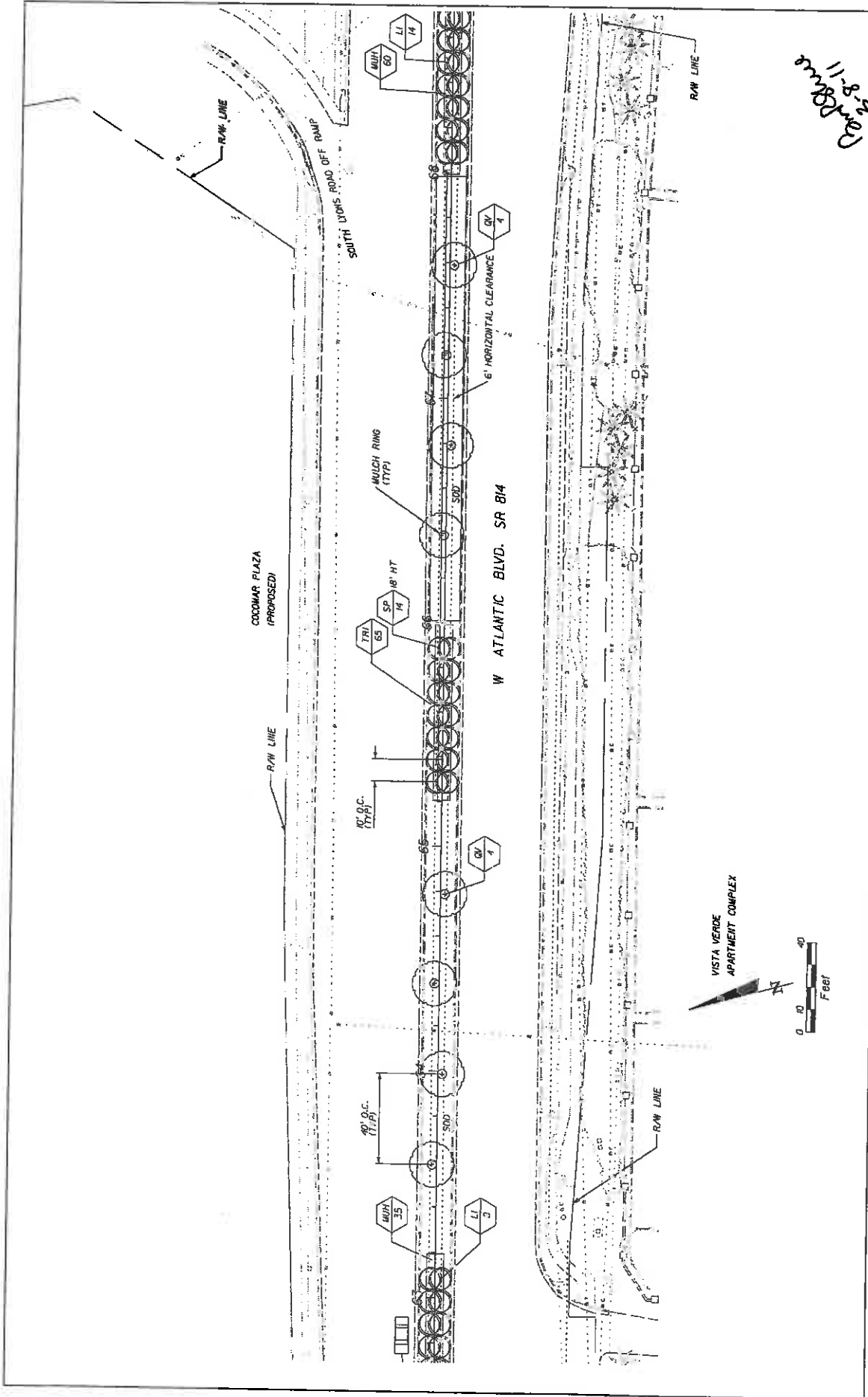
LARGE CALIPER TREE PLANTING DETAIL
N.T.S.

- NOTES:**
1. Submit shop drawing of staging/support detail.
 2. Provide narrative of installation and care of trees during establishment period.
 3. Optional tree rootball encasing system can be specified to supplement bracing of tree. Provide shop drawing as necessary.

Amey Rasmussen
11-8-11

REVISIONS		DESCRIPTION	
DATE	BY	DATE	DESCRIPTION

MILLER LEGG 5700 N. 1st St., Suite 100, Phoenix, AZ 85018 (602) 944-1100, Fax: (602) 944-1101 Co. of Reg. L000037, Lic. of Prof. Eng. 0000146678		CITY OF COCONUT CREEK MILLER LEGG PROJECT ID ROAD NO. COUNTY BROWARD 10-00249	
SHEET NO. LD-8		LANDSCAPE DETAILS	



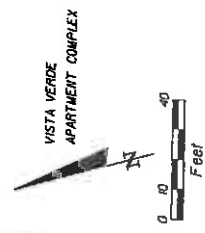
11-8-11
 R. Miller

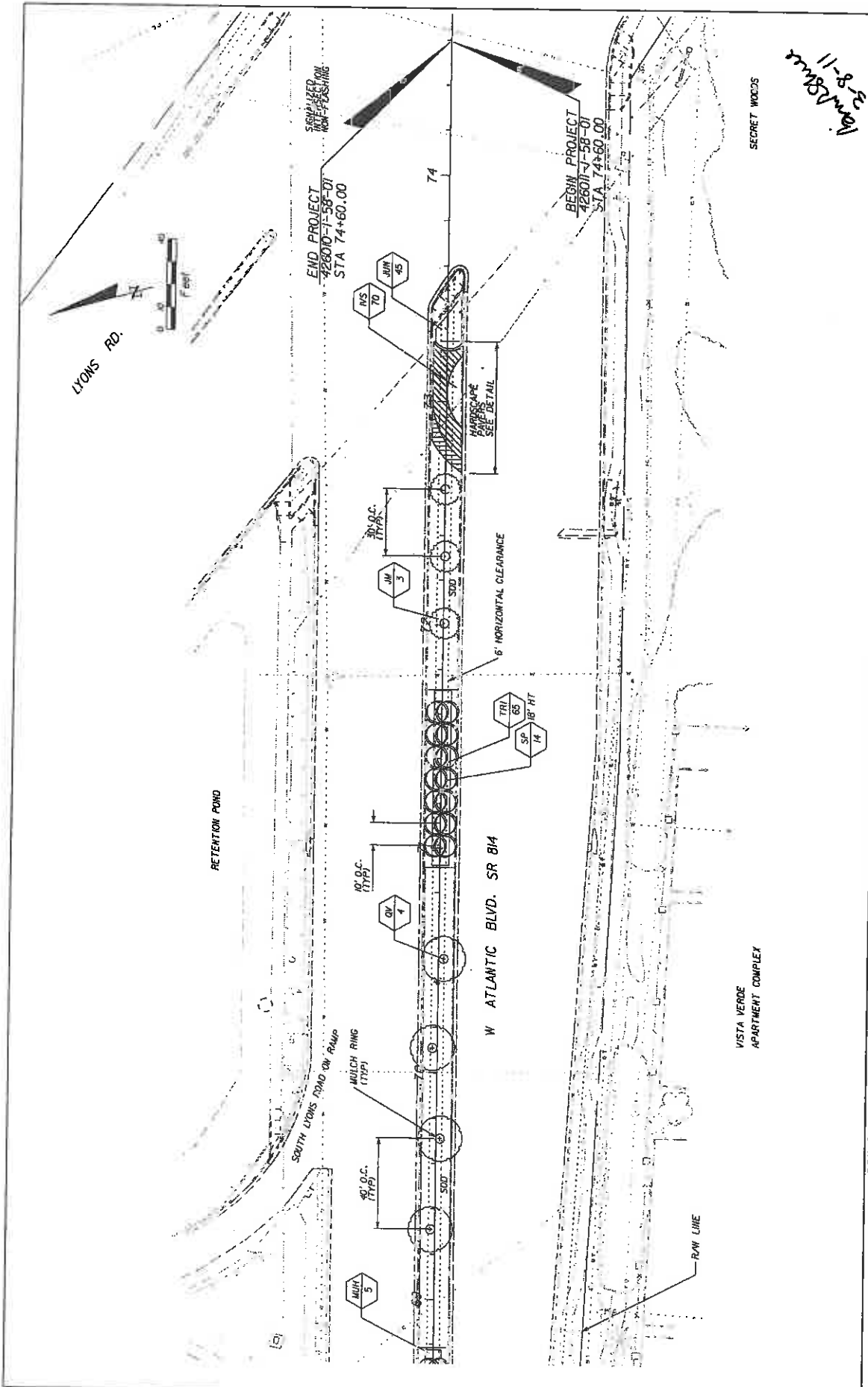
REVISIONS		CITY OF COCONUT CREEK		MILLER LEGG PROJECT ID		SHEET NO.	
DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	10-00249	LD-10	
			B14	BROWARD			

MILLER LEGG
 5777 North Andrews Way, Fort Lauderdale, Florida 33309-3344
 954-441-9100 Fax: 954-441-9244 www.millerlegg.com
 One of the LEED® Green Building Accredited Firms in the U.S.

LANDSCAPE PLAN

DATE: 11/28/11
 DRAWN BY: R. Miller
 CHECKED BY: J. Miller
 PROJECT NO.: 10-00249
 SHEET NO.: LD-10





SECRET WOODS

11-8-20
M5H 5

REVISIONS		DESCRIPTION	
DATE	BY	DATE	DESCRIPTION

CITY OF COCONUT CREEK		MILLER LEGG PROJECT ID	
ROAD NO.	COUNTY		
814	BROWARD	10-00249	

MILLER LEGG		CITY OF COCONUT CREEK	
3100 N. University Blvd., Fort Lauderdale, Florida 33309-2094		10000 N. University Blvd., Fort Lauderdale, Florida 33309-2094	
Cell: 954.333.1111 Fax: 954.333.1112		Cell: 954.333.1111 Fax: 954.333.1112	

SHEET NO.	LD-11
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BANYAN GAY
APARTMENTS

R/W LINE

EXISTING SIGN

11 14

HIGH 85

10' O.C. (TYP)

10' O.C. (TYP)

MULCH RING (TYP)

6' HORIZONTAL CLEARANCE

W ATLANTIC BLVD. SR 814

HARDSCAPE OVERLAY
SEE DETAIL

NORTH LOUIS ROAD OFF RAMP

NORTH DOWS ROAD ON RAMP

R/W LINE

STATE OWNED LANDS

VACANT

FLORIDA TURNPIKE LIMITED
ACCESS R/W LINE

FLORIDA TURNPIKE LIMITED
ACCESS R/W LINE

11-28-12
amb

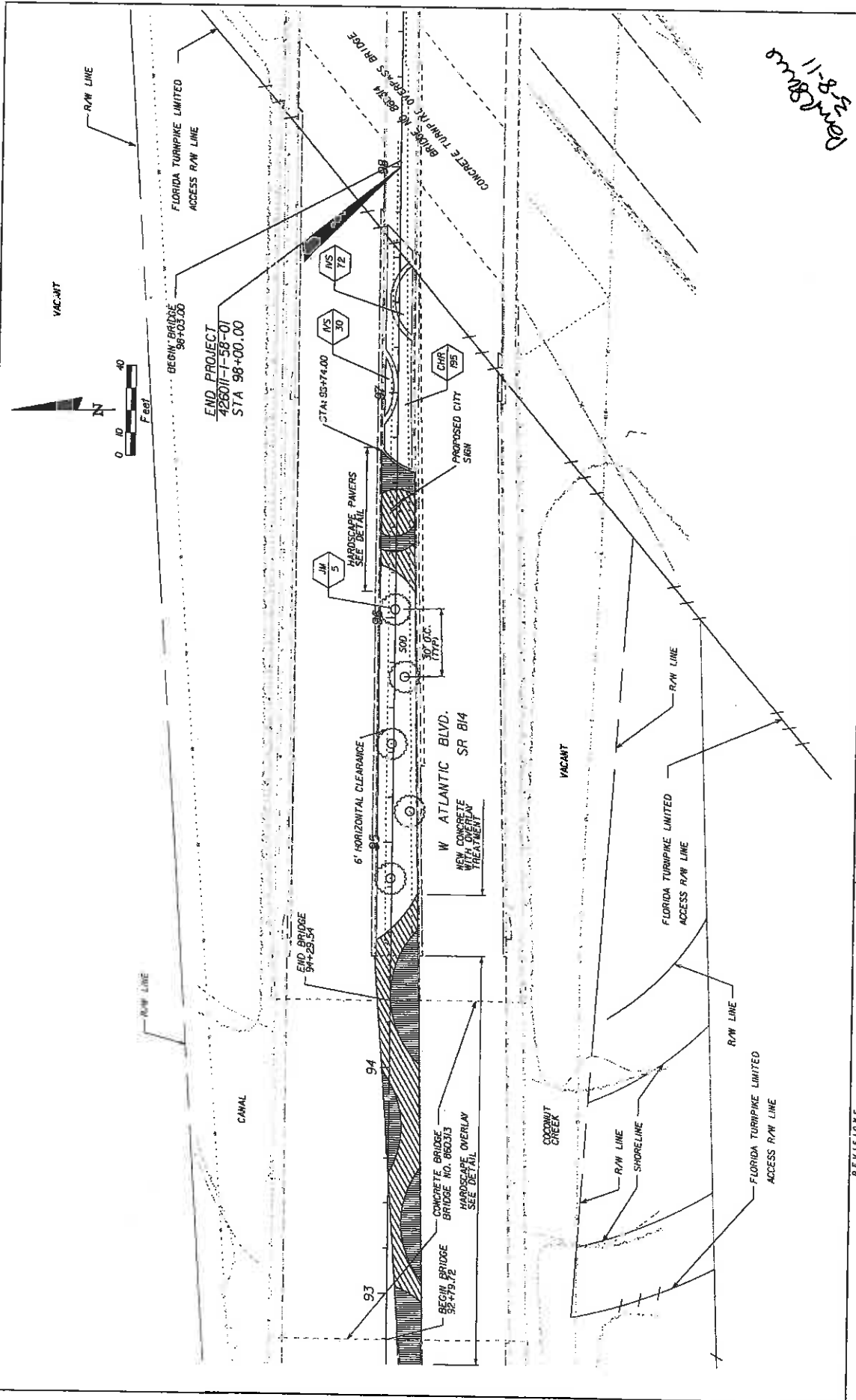
DATE	BY	DESCRIPTION

REVISIONS

MILLER LEGG
5975 North Collins Way, Fort Lauderdale, Florida 33309-3104
954-445-0000 Fax 954-445-0004 www.mlegg.com
Civil & Mechanical Engineering, L.L.C. (Florida License No. 12,000,001)

ROAD NO.	814	COUNTY	BROWARD	PROJECT ID	10-00249
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CITY OF COCONUT CREEK		LANDSCAPE PLAN	
SHEET NO.		LD-13	



11-8-23
 rmb

REVISIONS		DESCRIPTION	
DATE	BY	DATE	DESCRIPTION

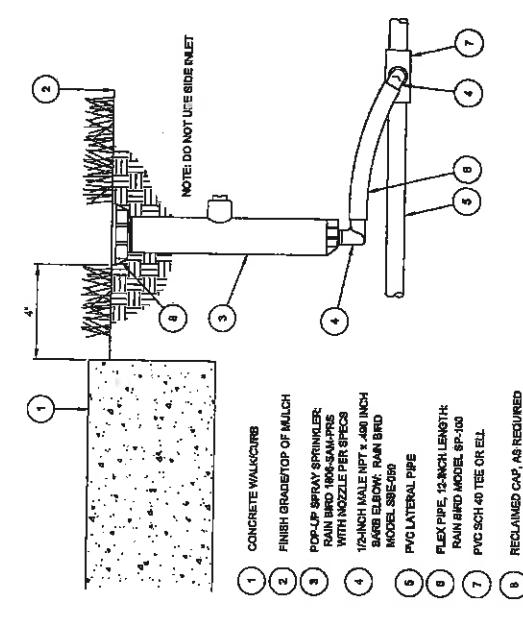
MILLER LEGG <small>500 North Address Way, Suite 100, Metairie, LA 70002 504-885-2000 Fax: 504-885-9561 www.millerlegg.com One of North Louisiana's L.A. of Plaquemine, Iron T. Smith, L.A. 66078</small>		CITY OF COCONUT CREEK <small>ROAD NO. B14 COUNTY BROWARD PROJECT ID 10-00249</small>	LANDSCAPE PLAN <small>3/17/2023 ADDRESS: PM PROJECT: 11-8-23 SHEET NO. LD-15</small>
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IRRIGATION SCHEDULE

VALVE SCHEDULE

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY	ARC	PSI	ORPM	RADIUS	NUMBER	MODEL	SIZE	TYPE	PSI	POC	QTY	PRECIP
1	Rain Bird 1800-SAM-PRS-NP 15 Slip Series 6" pop-up with check valve, pressure regulator, purple cap.	3	E5T	30	0.81	4'x15"	1	Rain Bird PESSB 1-1/2"	1-1/2"	Turf Spray	37.84	39.00	51.88	1.35 in/h
2	Rain Bird 1800-SAM-PRS-NP 15 Slip Series 6" pop-up with check valve, pressure regulator, purple cap.	11	B5T	30	1.21	4'x30"	3	Rain Bird PESSB 1-1/2"	1-1/2"	Bubbler	38.88	38.88	48.00	30.04 in/h
3	Rain Bird 1800-SAM-PRS-NP 15 Slip Series 6" pop-up with check valve, pressure regulator, purple cap.	42	B5T	30	0.78	10'	5	Rain Bird PESSB 1-1/2"	1-1/2"	Turf Spray	37.88	39.30	51.80	1.46 in/h
4	Rain Bird 1800-SAM-PRS-NP 10 Series MPR 6" pop-up with check valve, pressure regulator, purple cap.	5	80	30	0.38	10'	7	Rain Bird PESSB 1-1/2"	1-1/2"	Bubbler	40.01	43.68	51.80	1.47 in/h
5	Rain Bird 1800-SAM-PRS-NP 10 Series MPR 6" pop-up with check valve, pressure regulator, purple cap.	6	80	30	0.38	10'	8	Rain Bird PESSB 1-1/2"	1-1/2"	Bubbler	39.84	42.88	51.80	1.47 in/h
6	Rain Bird 1800-SAM-PRS-NP 10 Series MPR 6" pop-up with check valve, pressure regulator, purple cap.	1	120	30	0.53	10'	9	Rain Bird PESSB 1-1/2"	1-1/2"	Turf Spray	35.91	41.15	42.00	30.84 in/h
7	Rain Bird 1800-SAM-PRS-NP 10 Series MPR 6" pop-up with check valve, pressure regulator, purple cap.	278	180	30	1.85	15'	10	Rain Bird PESSB 1-1/2"	1-1/2"	Turf Spray	36.91	42.79	50.30	1.37 in/h
8	Rain Bird 1800-SAM-PRS-NP 15 Series MPR 6" pop-up with check valve, pressure regulator, purple cap.	12	80	30	0.92	15'	11	Rain Bird PESSB 1-1/2"	1-1/2"	Bubbler	40.08	47.53	51.80	1.44 in/h
9	Rain Bird 1800-SAM-PRS-NP 15 Series MPR 6" pop-up with check valve, pressure regulator, purple cap.	11	120	30	1.23	15'	12	Rain Bird PESSB 1-1/2"	1-1/2"	Turf Spray	36.91	44.41	50.33	1.42 in/h
10	Rain Bird 1800-SAM-PRS-NP 15 Series MPR 6" pop-up with check valve, pressure regulator, purple cap.	207	360	30	1.00	1'	15-A	Rain Bird PESSB 1"	1"	Turf Spray	34.82	35.54	13.48	1.38 in/h
11	Rain Bird 1800-SAM-PRS-NP 15 Series MPR 6" pop-up with check valve, pressure regulator, purple cap.	1	15-B	30	1.00	1'	16	Rain Bird PESSB 1-1/2"	1-1/2"	Turf Spray	36.17	41.37	32.35	1.70 in/h
12	Rain Bird 1800-SAM-PRS-NP 15 Series MPR 6" pop-up with check valve, pressure regulator, purple cap.	1	15-B	30	1.00	1'	16	Rain Bird PESSB 1-1/2"	1-1/2"	Turf Spray	36.82	45.52	43.75	1.55 in/h

SYMBOL	MANUFACTURER/MODEL/DESCRIPTION	QTY
1	Rain Bird PESSB Electric Remote Control Scrubber Valve	17
2	Nibco T-113 Class 125 bronze gate shut off valve with wheel handle, same size as pipe diameter, Size Range - 1/4" - 3"	8,819 LL
3	Rain Bird ESP-24/SITE-W Rain Bird ESP-SITE-SAT satellite controller with 24 stations, wall mount.	4,225 LL
4	SHF Centrifugal Pump Station	1,865 LL
5	Irrigation Lateral Line: PVC Schedule 40	
6	Irrigation Mainline: PVC Schedule 40	
7	Pipe Sleeves: PVC Schedule 40 Typical pipe sleeves for irrigation pipe. Pipe sleeve size shall allow for irrigation piping and their related couplings to easily slide through allowing material. Extend sleeves 18 inches beyond edges of paving or construction.	



1 6" POP-UP SPRAY

2 TREE BUBBLER

DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

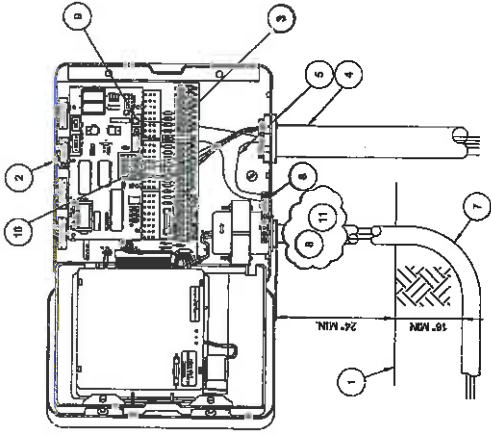
MILLER LEGG
 5750 University Blvd., Jacksonville, Florida 32217-3364
 Phone: 904-444-1488 • Fax: 904-444-1489 • www.millerlegg.com
 City of Jacksonville, Florida, Project No. 10-00247

CITY OF COCONUT CREEK
 MILLER LEGG PROJECT ID
 ROAD NO. COUNTY BROWARD PROJECT NO. 10-00247

IRRIGATION NOTES

SHEET NO. LD-18

DATE: 7-8-11



8 MAXICOM ESP-SITE FIELD SATELLITE CONTROLLER

- 1 FINISH GRADE
- 2 RAIN BIRD ESP-SITE FIELD SATELLITE CONTROLLER WALL MOUNT (METAL / PLASTIC)
- 3 WIRE TERMINAL CONNECTORS TO REMOTE CONTROL VALVES
- 4 CONDUIT - SIZE AS REQUIRED
- 5 #8 COPPER GROUND WIRE FROM ESP-SITE FIELD SATELLITE CONTROLLER GROUNDING BUSS BAR TO GROUNDING GRID (SEE GROUNDING DETAIL)
- 6 ESP-SITE FIELD SATELLITE CONTROLLER GROUNDING BUSS BAR
- 7 120 VOLT POWER SUPPLY
- 8 REFER TO LOCAL ELECTRICAL CODE FOR CONNECTIONS
- 9 TELEPHONE LINE INPUT
- 10 ESP-SITE SATELLITE SENSOR INPUT
- 11 RAIN BIRD WARRANTY REQUIRES PROPER SURGE PROTECTION USE INTERNATIC AG2401 OR TRIPPLITE ISOBK

NOTE:
SUCTION PIPES AND FITTINGS SHALL BE IRON, WREST FLUGED, CHECK VALVES 3" AND LARGER SHALL BE SWING TYPE, 2" AND SMALLER SHALL BE POPPET STYLE.
ALL PROPOSED SUCTION & DISCHARGE PIPE ADJACENT TO THE PUMP SYSTEM SHALL BE GALVANIZED STEEL, BUTTERFLY OR BALL VALVE PROVIDED AT EACH PUMP.
PROVIDE MINIMUM OF 4" CLEARANCE ON ALL SIDES OF PUMP SYSTEMS

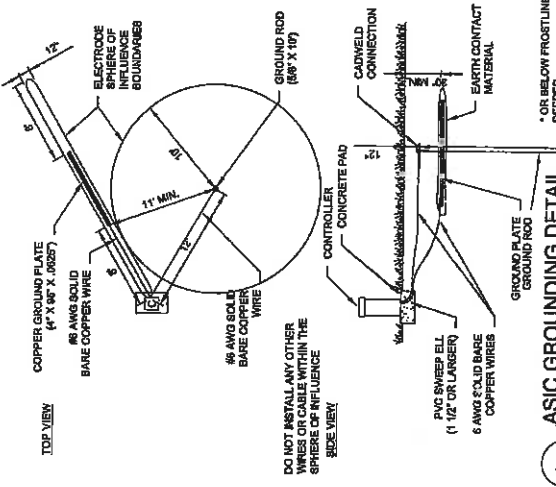
IRRIGATION CONTROLLER:

RAIN BIRD ESP-24SITE-W WITH RAIN GAUGE AND FLOW SENSOR

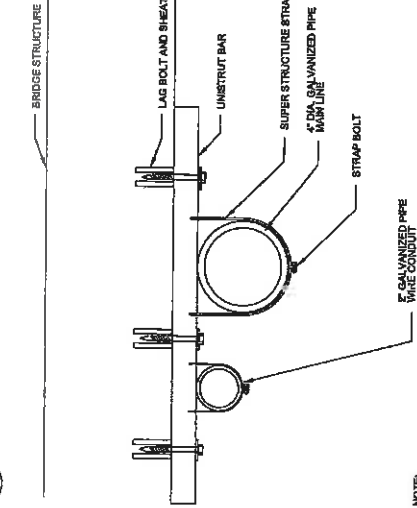
FEATURES:
CLOCK START
TRANSIENT SURGE
LOSS OF PRIME
NO FLOW

PUMP PERFORMANCE:
56 GPM @ 140 TWH

HOOPER PUMPING MODEL: HCF-52S-2300-D-25-24-W-Z P/N11845 OR EQUAL

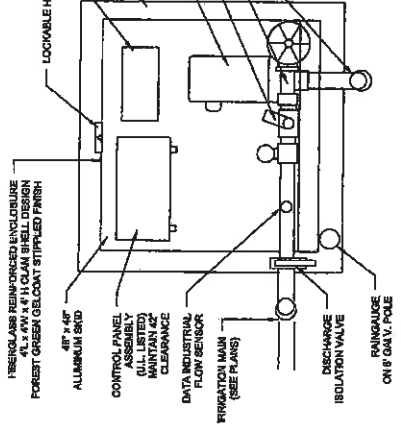


10 ASIC GROUNDING DETAIL



NOTE:
SUBMIT MANUFACTURE SHOP DRAWING
SUBMIT NARRATIVE ADDRESSING THE NUMBER OF PIPE SUPPORTS NECESSARY TO CROSS BRIDGE, MINIMUM 4, O.C.

9 EXPOSED PIPE SUPPORT



11 5 HP FIBERGLASS ENCLOSED WELL PUMP

Handwritten note: mmd 11-8-20

DATE	BY	DESCRIPTION	DATE	BY	DESCRIPTION

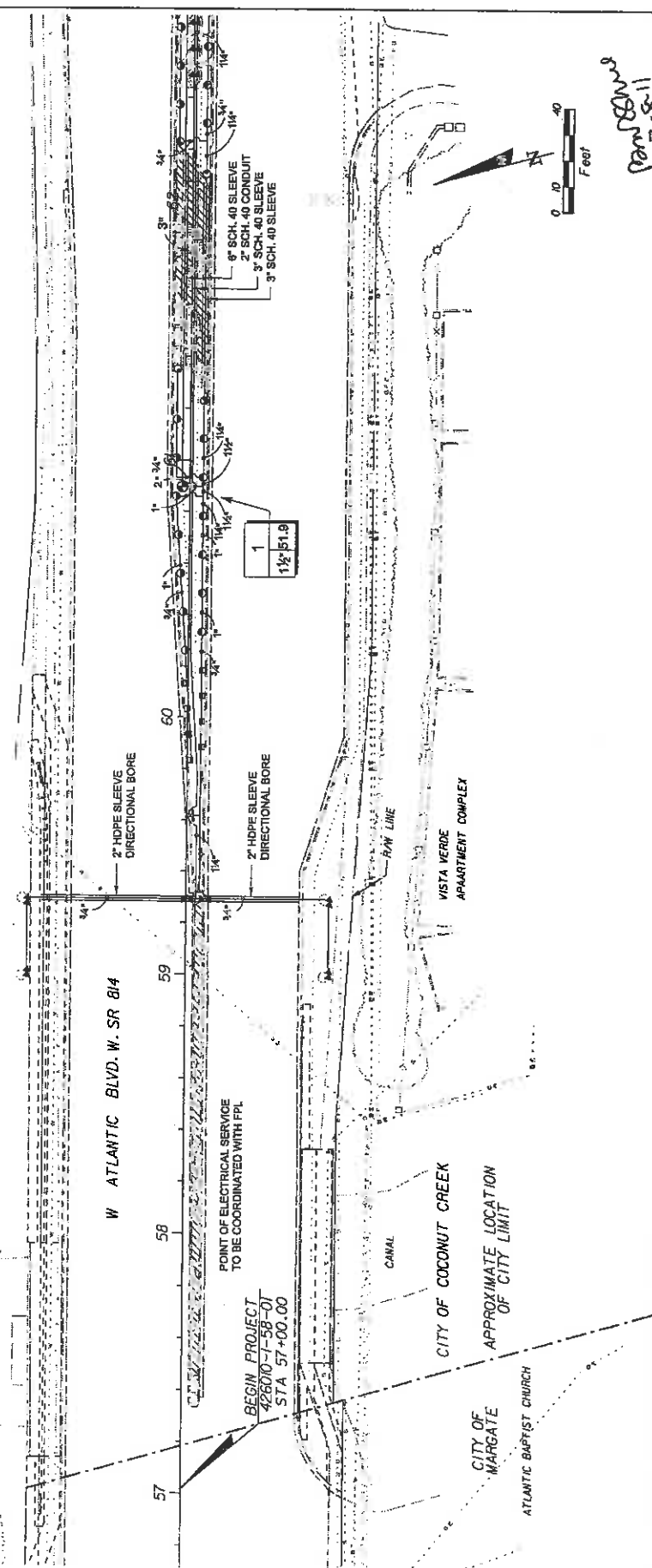
MILLER LEGG
 5745 S. W. 12th St., Ft. Lauderdale, Florida 33309-3584
 561-533-3200 • Fax: 561-533-3201 • www.millerlegg.com
 Lic. of Arch. 12,000,031; Lic. of Board of Eng. 14,668,870

CITY OF COCONUT CREEK	HILLER LEGG PROJECT ID
ROAD NO. B14	10-00247
COUNTY BROWARD	

SHEET NO.	LD-20
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IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY	APC	ESJ	GPM	RADIUS	SYMBOL	MANUFACTURER/MODEL	QTY
1	Rain Bird 1806-SAM-PRS-NP 15 Series	1	EST	30	0.61	4'x15'	1	Rain Bird PIESB	1
2	Rain Bird 1806-SAM-PRS-NP 15 Series	3	SST	30	1.21	4'x30'	2	Nibco T-113	2
3	Rain Bird 1806-SAM-PRS-NP 10 Series	8	MPR	160	30	0.79	10'	6" SCH. 40 SLEEVE	1
4	Rain Bird 1806-SAM-PRS-NP 15 Series	19	MPR	160	30	1.05	15'	2" SCH. 40 CONDUIT	1
5	Rain Bird 1806-SAM-PRS-NP 15 Series	2	MPR	90	30	0.92	15'	3" SCH. 40 SLEEVE	1
6	Rain Bird 1806-SAM-PRS-NP 15 Series	2	MPR	120	30	1.23	15'	3" SCH. 40 SLEEVE	1
7	Rain Bird 1800-1400 Flood	14	380	30	1.00	1'	Valve Callout	390 LF.	390 LF.



DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

CITY OF COCONUT CREEK		MILLER LEGG PROJECT ID	
ROAD NO.	814	COUNTY	BROWARD
10-00249			

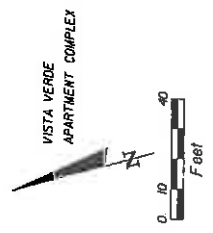
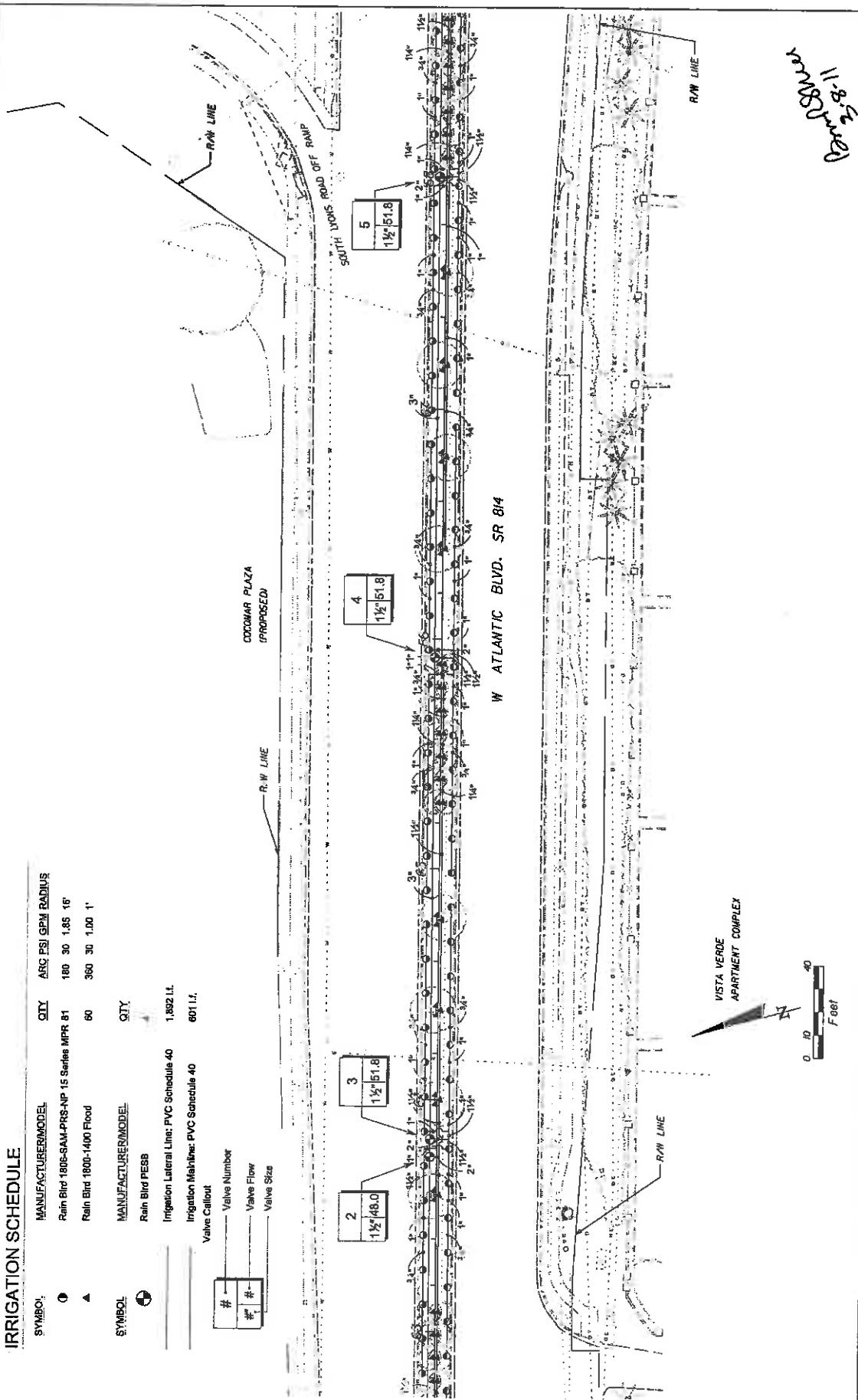
MILLER LEGG		DATE OF PLAN: 12/08/2009	
507 West Andrews Way, Ft. Lauderdale, Florida 33309-2564		DATE OF PRINT: 12/08/2009	
954-457-5000 Fax: 954-457-5866 www.millerlegg.com		DRAWN BY: [Signature]	
City of Miami 120000337 L.A. of Broward, State of Fla. 12/08/2009		SHEET NO. LD-21	

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	CITY	ARC PSI	GPM	RADIUS
●	Rain Bird 190S-SAM-PRS-NP 1S Series MPR 81	81	180	30	1.85' 16"
▲	Rain Bird 190S-1400 Flood	80	360	30	1.00' 1"

SYMBOL	MANUFACTURER/MODEL	CITY
○	Rain Bird PRESS	
—	Irrigation Lateral Line: PVC Schedule 40	1,892 LL
—	Irrigation Mainline: PVC Schedule 40	601 LL

#	Valve Number
#	Valve Flow
#	Valve Size



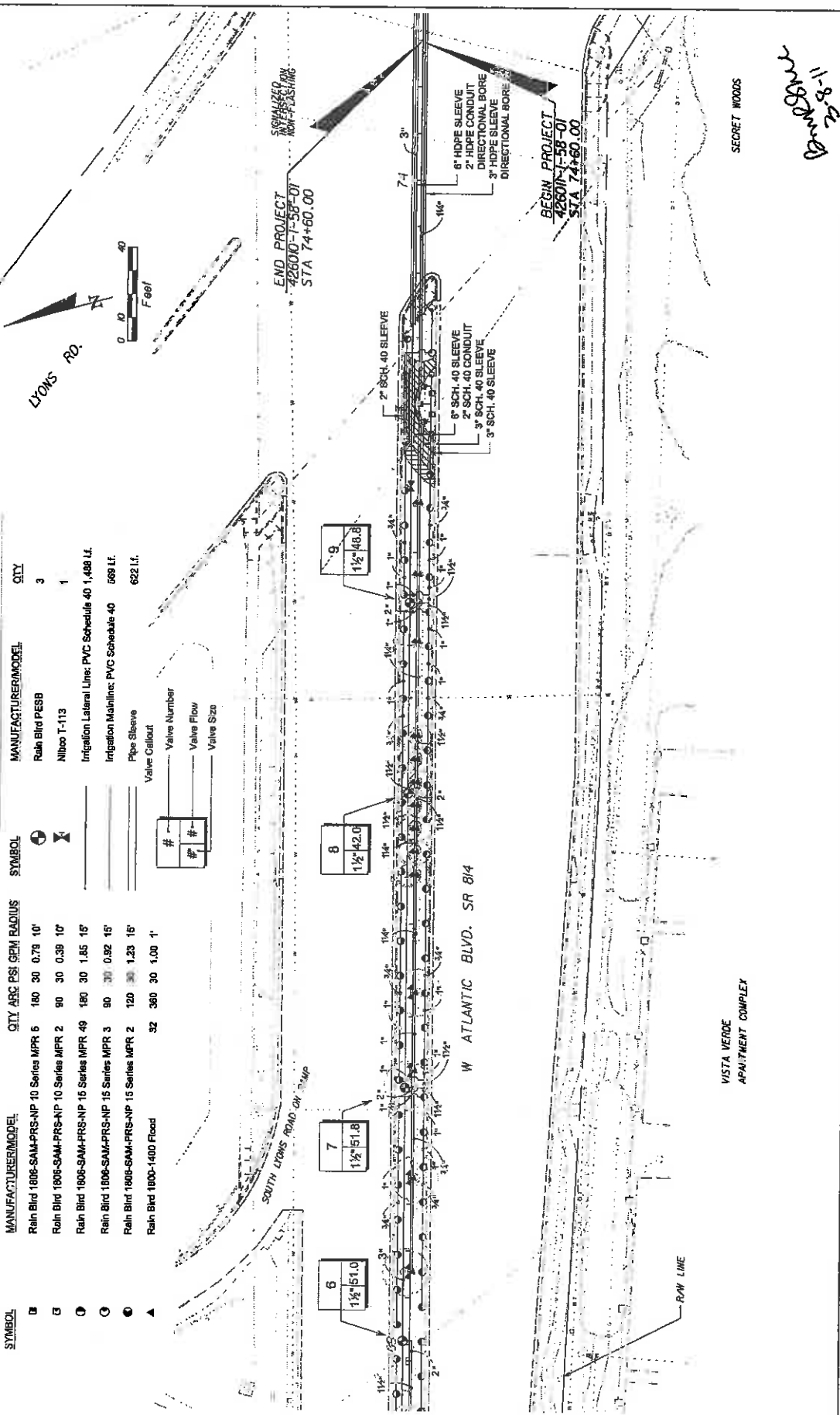
11-8-2022
Miller Legg

REVISIONS		CITY OF COCONUT CREEK		SHEET NO.	
DATE	BY	DESCRIPTION	ROAD NO.	COUNTY	MILLER LEGG PROJECT ID
			814	BROWARD	10-00249
			IRRIGATION PLAN		
			LD-22		

MILLER LEGG
 570 North Andrews Way, Fort Lauderdale, Florida 33309-2514
 954-435-1000 Fax: 954-435-8844 mlegg@mllegg.com
 Div. of Public Utilities, 111 N. West Street, Suite 111, Dania Beach, FL 33024

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY	ARC	PSI	GPM	RADIUS	SYMBOL	CITY
□	Rain Bird 180B-SAM-FRS-NP 10 Series MPR 6	180	30	0.78	10'	⊕	3	
□	Rain Bird 180B-SAM-FRS-NP 10 Series MPR 2	90	30	0.39	10'	⊗	1	
○	Rain Bird 180B-SAM-FRS-NP 15 Series MPR 49	180	30	1.85	15'			
○	Rain Bird 180B-SAM-FRS-NP 15 Series MPR 3	90	30	0.92	15'			
●	Rain Bird 180B-SAM-FRS-NP 15 Series MPR 2	120	30	1.23	15'			
▲	Rain Bird 1800-1400 Flood	32	360	30	1.00	1'		



DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

MILLER LEGG 510 North Auburn Way, Portland, Oregon 97208 503-438-7000 • Fax 503-438-8881 • www.millerlegg.com Dist. of 1446-11000007 - L.A. of Rowan Blvd. J. Chen LA-666770		CITY OF COCONUT CREEK ROAD NO. 814 COUNTY BROWARD ID-00249	IRRIGATION PLAN	SHEET NO. LD-23
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IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY	ARC	PSI	GPM	RADIUS	SYMBOL	MANUFACTURER/MODEL	QTY
⊖	Rain Bird 1806-SAM-PRS-NP 10 Series MPR 3	180	30	0.79	10'	⊖	Rain Bird PESS		2
⊖	Rain Bird 1806-SAM-PRS-NP 10 Series MPR 2	90	30	0.39	10'	⊗	Nibloc T-113		1
⊖	Rain Bird 1806-SAM-PRS-NP 15 Series MPR 55	180	30	1.65	15'	C	Rain Bird ESP-24SITE-W		1
⊖	Rain Bird 1806-SAM-PRS-NP 15 Series MPR 3	90	30	0.92	15'	SHP	SHP Centrifugal Pump Station / Well		1
⊖	Rain Bird 1806-SAM-PRS-NP 15 Series MPR 3	120	30	1.23	15'		Irrigation Lateral Line: PVC Schedule 40	1,765 Lf.	
▲	Rain Bird 1800-1400 Flood	36	300	3.00	1'		Irrigation Mainline: PVC Schedule 40	619 Lf.	

SYMBOL	MANUFACTURER/MODEL	QTY
#	Valve Number	628 Lf.
#	Valve Callout	628 Lf.

SYMBOL	MANUFACTURER/MODEL	QTY
#	Pipe Sleeve	628 Lf.
#	Valve Callout	628 Lf.

WITH 4" GRAVEL PACKED WELL - 80' DEPTH
 CONTRACTOR TO PROVIDE PHASE III, 208 VAC POWER
 CONTRACTOR TO PROVIDE P.O.T.S. CONNECTION FOR
 CENTRAL CONTROL COMMUNICATION

5 HP CENTRIFUGAL PUMP STATION
 CONTRACTOR TO PROVIDE PHASE III, 208 VAC POWER
 CONTRACTOR TO PROVIDE P.O.T.S. CONNECTION FOR
 CENTRAL CONTROL COMMUNICATION

PUMP STATION AND WELL
 TO BE CENTERED IN MEDIAN

POTENTIAL ELECTRICAL POINT OF CONNECTION
 PROVIDE METER/PRIMARY DISCONNECT
 PROVIDE WIRE, CONDUIT & HANDHOLE BOX
 PROVIDE PHASE III, 208 VAC POWER
 CONTRACTOR TO PROVIDE P.O.T.S. CONNECTION FOR
 CENTRAL CONTROL COMMUNICATION

2" SCH. 40 SLEEVE
 6" SCH. 40 SLEEVE
 2" SCH. 40 CONDUIT
 8" HDPE SLEEVE
 2" HDPE CONDUIT
 DIRECTIONAL BORE
 8" HDPE SLEEVE
 DIRECTIONAL BORE

1 1/2" 50.3
 1 1/2" 51.6

2-2" HDPE CONDUIT
 DIRECTIONAL BORE
 1- ELECTRICAL
 2- PHONE

W ATLANTIC BLVD, SR 814
 LYONS RD.
 NORTH LYONS ROAD ON RAMP
 RETENTION POND

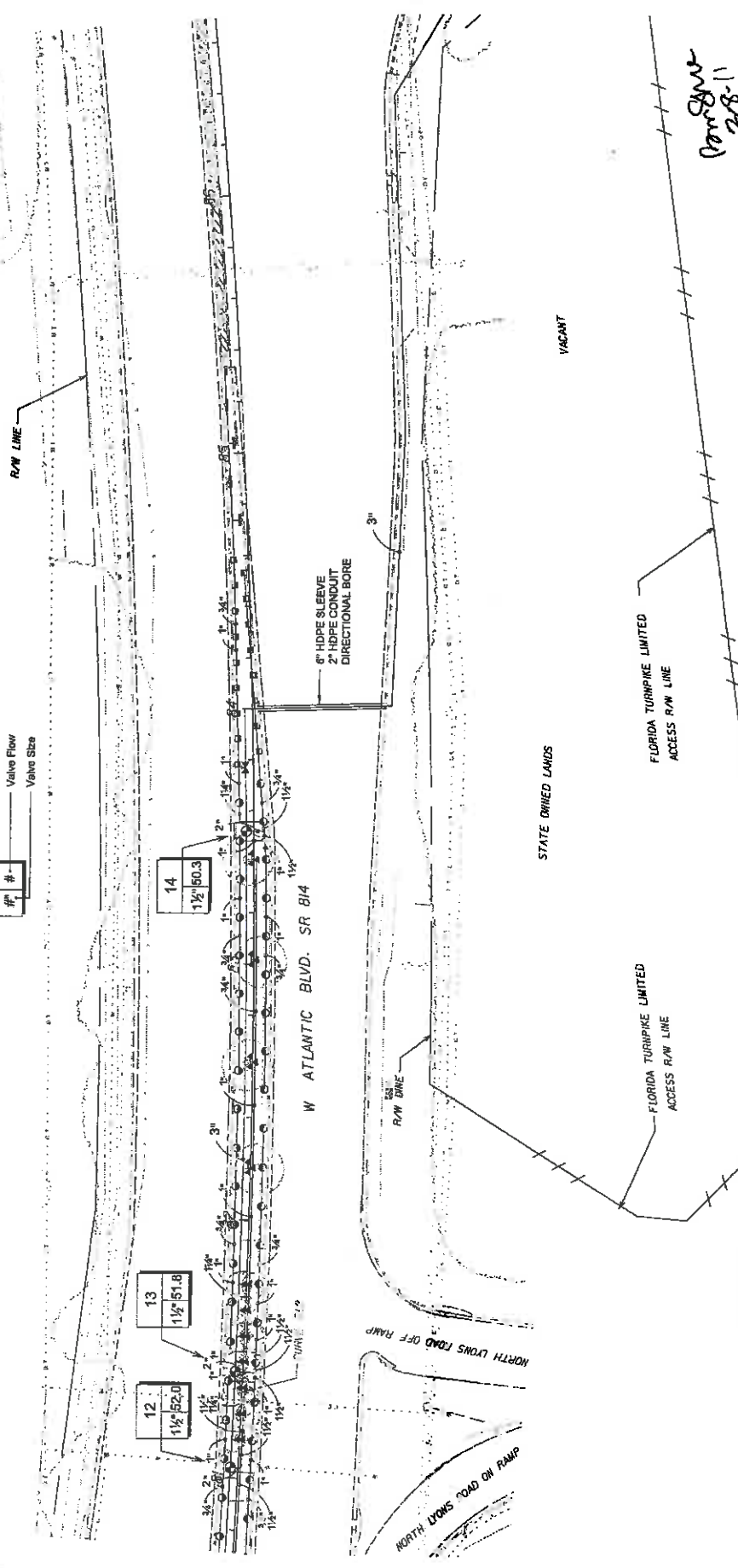
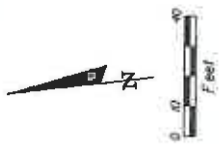
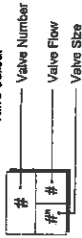


2-58-11
 Renda

MILLER LEGG 570 North Auburn Way, Port Laidley, North Carolina 28584 919-456-2000, Fax: 919-456-4661, www.mlegg.com Date of Issue: 11/20/2007, I.A. # 10966, State I.A. # 66670		CITY OF COCONUT CREEK ROAD NO. 814 COUNTY BROWARD MILLER LEGG PROJECT ID 10-00249	SHEET NO. LD-24 DATE 3/7/2008
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IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	CITY ARC PSI GPM RADIUS	SIZE	MANUFACTURER/DESCRIPTION	CITY
1	Rain Blnd 1806-SAM-PRS-NP 16 Strip Series 1	EST 30 0.61 4'x16'	⊕	Rain Blnd PESSB	3
2	Rain Blnd 1806-SAM-PRS-NP 15 Strip Series 4	SST 30 1.21 4'x30'	⊗	Nibco T-113	1
3	Rain Blnd 1806-SAM-PRS-NP 10 Series MFR 17	180 30 0.79 10'		Irrigation Lateral Line: PVC Schedule 40 1,197 LL	
4	Rain Blnd 1806-SAM-PRS-NP 16 Series MFR 41	180 30 1.85 15'		Irrigation Mainline: PVC Schedule 40 671 LL	
5	Rain Blnd 1800-1400 Flood	28 390 30 1.00 1'		Pipe Sleeve Valve Callout	50 LL



Handwritten note: 11-8-11
C. J. ...

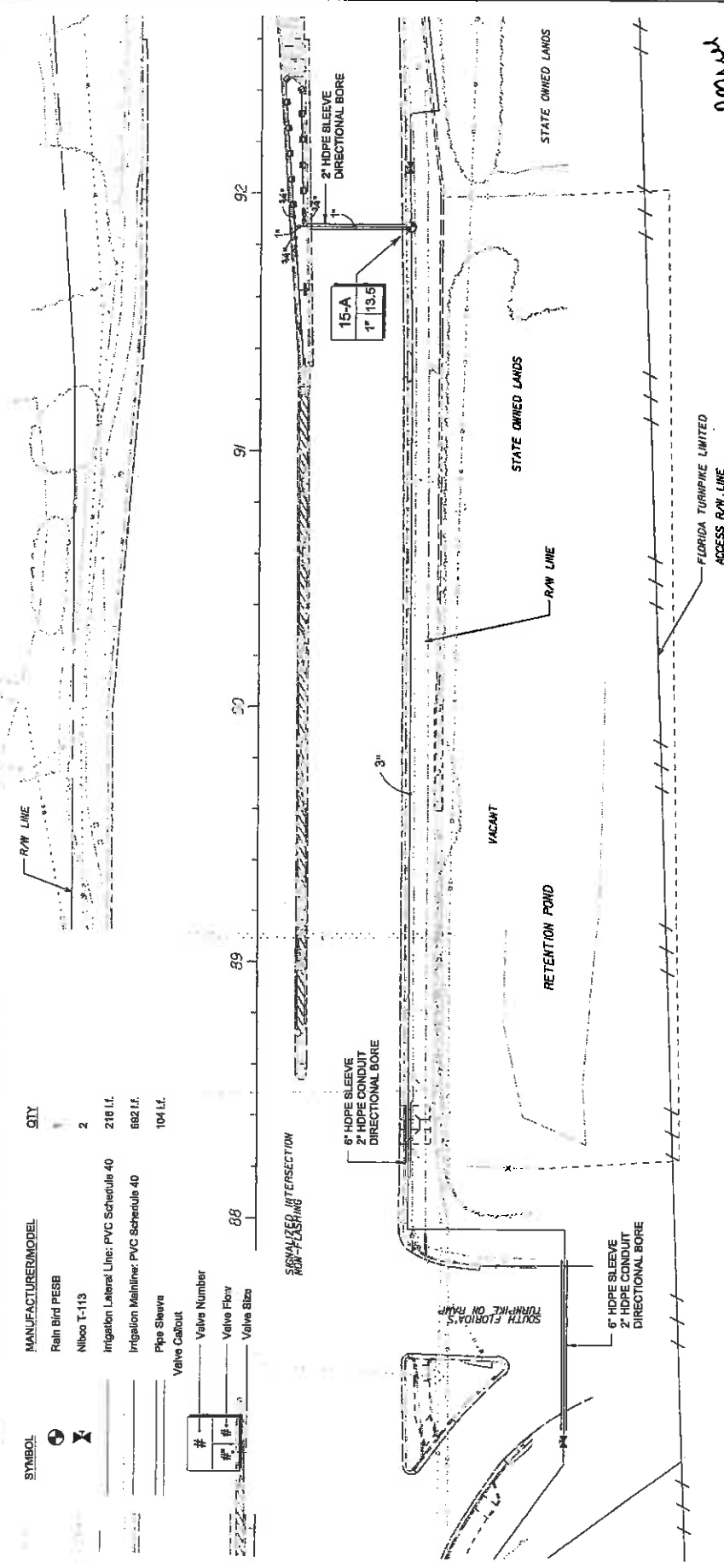
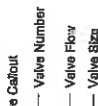
DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

MILLER LEGG 3714 N. W. 11th St., Ft. Lauderdale, Florida 33309-3304 954-532-9000 • Fax 954-532-9000 City of Auk. LD000001 - LA of Board Brn. L. Brn. 11-68070		CITY OF COCONUT CREEK ROAD NO. 814 CITY BROWARD	MILLER LEGG PROJECT 10 10-C0249
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IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY	ABC ESI GPM RADIUS
—	Rain Bird 1806-SAM-PRS-NP 16 Strip Section 1	ESST 30	0.61 4X16"
⋮	Rain Bird 1806-SAM-PRS-NP 15 Strip Series 4	SSST 30	1.21 4X30"
⊖	Rain Bird 1806-SAM-PRS-NP 10 Series MPR 8	180 30	0.79 10"
⊖	Rain Bird 1806-SAM-PRS-NP 10 Series MPR 1	90 30	0.39 10"
⊖	Rain Bird 1806-SAM-PRS-NP 10 Series MPR 1	120 30	0.53 10"

SYMBOL	MANUFACTURER/MODEL	QTY
⊙	Rain Bird PESB	1
⊗	Nihoco T-113	2
—	Irrigation Lateral Line: PVC Schedule 40	218 l.f.
—	Irrigation Mainline: PVC Schedule 40	692 l.f.
—	Pipe Sleeve	104 l.f.



11-18-23
10/28/23

DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

CITY OF COCONUT CREEK		MILLER LEGG PROJECT ID
ROAD NO.	COUNTY	10-00249
814	BROWARD	

SHEET NO.	LD-26
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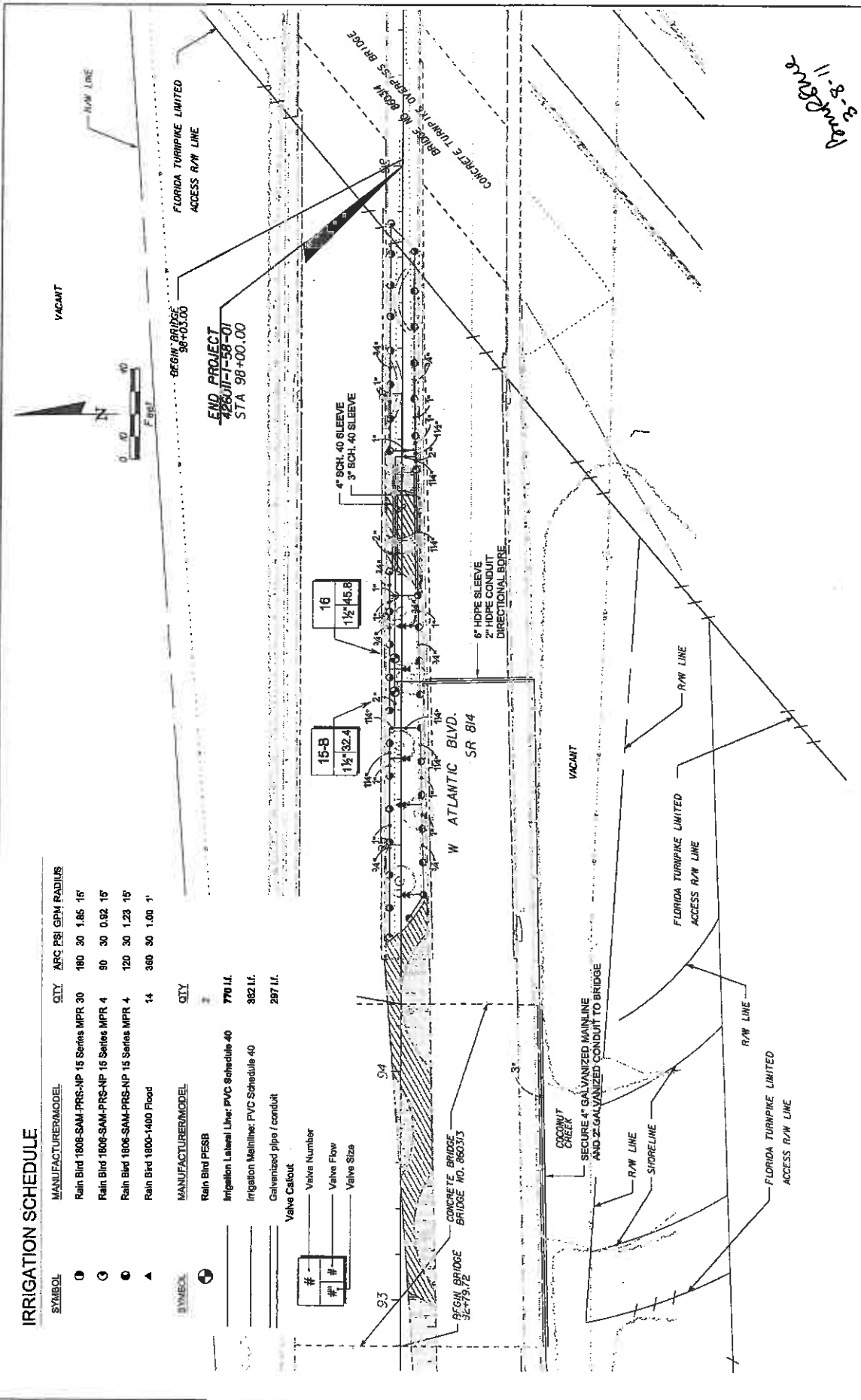
MILLER LEGG
 570 North Jackson Way - Fort Lauderdale, Florida 33309-2364
 954-337-2007 Fax: 954-337-8661 www.millerlegg.com
 Dist. of Fla. Lic. 120000077, Lic. of Record Plans & Maps LA-6060770

IRRIGATION SCHEDULE

SYMBOL	MANUFACTURER/MODEL	QTY	ARC PSI	GPM	RADIUS
⊙	Rain Bird 1806-SAM-PRS-NP 15 Series MPR 30	180	30	1.85	16'
⊙	Rain Bird 1808-SAM-PRS-NP 15 Series MPR 4	90	30	0.92	16'
⊙	Rain Bird 1806-SAM-PRS-NP 15 Series MPR 4	120	30	1.23	16'
▲	Rain Bird 1800-1400 Flood	14	30	1.00	1'

MANUFACTURER/MODEL	QTY
Rain Bird PESSB	2
Irrigation Lateral Line: PVC Schedule 40	770 LI.
Irrigation Mainline: PVC Schedule 40	382 LI.
Galvanized pipe / conduit	287 LI.

Valve Cabout



MILLER LEGG 5747 York Avenue Way, Fort Lauderdale, Florida - 33309-3304 954-485-1000, Fax: 954-03-8866, www.millerlegg.com One of the LEED® Green Building Raters in the U.S.		CITY OF COCONUT CREEK ROAD NO. 814 COUNTY BROWARD PROJECT ID 10-00247	SHEET NO. LD-27
		IRRIGATION PLAN	

Handwritten: 3-8-11

PROJECT SPECIFIC GENERAL NOTES:

1. Traffic controls shall be in accordance with the project plans, the current edition of the Florida Department of Transportation (FDOT) Design Standards (GDO series), the Standard Specification for Road and Bridge Construction, and the current Manual on Uniform Traffic Control Devices as minimum criteria.
2. Notification of lane closures shall be accompanied 14 working days prior to closure submitting the required lane closure form, sketches, calculations, and other data through the Engineer to the District Traffic Operations Office.
3. Traffic disruptions which are not shown by the traffic control plan, but which are necessary to construct the project shall be submitted in writing to the engineer 14 days prior to the commencement of work. Submittal material shall include sketches, calculations and other data required by the Engineer.
4. The traffic and travel ways shall not be altered by the Contractor to create a work zone until all labor and material are available for the construction in that area.
5. Lane closings shall occur only during non-peak hours. Peak hours are from: 7:00-9:00am and 4:00-6:00pm.
6. The regulatory speed through the work zone shall be posted 45 mph.
7. As approved by the Engineer, the Contractor shall cover work zone signs when conditions no longer warrant their use. Cost of covering and uncovering the signs, daily maintenance and monitoring shall be included in maintenance of traffic.
8. Contractor shall remove, relocate or cover any existing or proposed signs that conflict with the traffic control plans. When the conflict no longer exists, the contractor shall restore the signs to their original position. Cost of temporarily removing, relocating, covering and restoring the signs shall be included in maintenance of traffic.
9. Uniformed, off-duty law enforcement officers can be used only as approved by the Engineer and use is limited to construction operations for setting and removing traffic control devices, night work, moving operations, or other situations specifically approved by the Engineer. All cost for the officer(s) shall be included in the maintenance of traffic.
10. All existing signage shall be maintained in an appropriate location for the duration of the project.
11. The contractor shall maintain a minimum of one lane of traffic at all times for minor side streets. During one lane operation a flag man shall be used. If operation exceeds one work period, contractor shall cover excavation and return two way traffic at the end of each work period.
12. If temporary lane closure causes extended congestion, the contractor shall, at the direction of the Engineer, reopen the closed lane(s) at no additional cost until such time the traffic flow has returned to an acceptable level.
13. Provisions for traffic control plan which are not anticipated in the traffic control plans, but are necessary for project construction shall be submitted to the engineer at least 72 hours prior to using such provisions.
14. A certified maintenance of traffic supervisors shall be available to the project at all times when the contractor is working and shall be on call for emergencies when the Contractor is not working. All work shall cease when MOT Supervisor is not present.
15. Access shall be provided to all places of business and residences whenever construction interferes with the existing means of access. Adequate accommodations for intersecting and crossing traffic shall be provided and maintained by the contractor. No road or street crossings within the project shall be blocked or unduly restricted as determined by the engineer.
16. Contractor shall be responsible for the immediate removal of storm water from roadways utilized for maintaining traffic in a manner approved by the Engineer. Cost for removing the water shall be included in maintenance of traffic.
17. Arrows provided on details denote direction of traffic only and do not reflect pavement markings unless specifically noted.

Markings:

1. The Contractor shall maintain all existing pavement markings during construction. If necessary, Contractor shall submit to the Engineer any modifications or temporary markings to the existing pavement markings during construction. Cost of removal of temporary pavement markings, regardless of method, is included in the related pavement marking maintenance of traffic. Use of black paint to cover existing and/or temporary pavement markings is prohibited.

Drop offs:
1. For drop offs, the contractor's attention is directed to latest standard index no. 600, sheet 6 of 10.

Signals:

1. The contractor shall have full responsibility for the normal maintenance of existing traffic signal(s) within the project limits. All signals shall remain in full operation unless deemed necessary for construction activities. The contractor shall notify Broward County Traffic Engineering Division (BCTED) (Telephone number (954) 847-2600) a minimum of 10 working days prior to any modification and/or changes of an existing traffic signal (i.e. Taking signals off-line, removing or replacing loop assemblies or rearranging traffic signal heads). The contractor shall install the temporary signalization system and have the system in operation before taking the existing system out of service. Portable temporary units shall not be used. The temporary signal system shall be adjusted to the traffic needs of each construction phase. Signal heads are to be located with respect to approach lanes. Cost of adjusting temporary signal for the required top phases shall be included in maintenance of traffic.
2. The contractor shall utilize the existing signal equipment or provide all necessary signalization components and appurtenances, including but not limited to poles, temporary electric service connections, temporary conduits and wires, relocation of existing controllers or temporary controllers, and necessary signal timing coordination with Broward County Traffic. The contractor shall provide maintenance of the temporary signal system until the permanent system is installed and functional. Cost to be included in maintenance of traffic.

Pedestrian, bicycles & wheelchairs:

1. The contractor shall maintain pedestrian, bicycle, and wheel chair traffic on at least one side of the roadway at all times during construction. This shall be done in accordance to index 660 1011.
2. At the end of each work day or whenever the work zone becomes inactive, any drop-off adjacent to pedestrian travel paths shall be backfilled flush with the travel path or shall be protected with barricades, temporary barrier wall or approved handrail.
3. Pedestrian, bicycles, and wheelchair traffic shall be guided and maintained using approved warning lights, signing, markings, and channelization devices. Such control devices shall be installed and maintained in accordance with, latest standards and the current muted. All add requirements must be maintained.
4. The contractor shall maintain access and signs for existing bus stop locations within the project limits. If existing bus stops need to be relocated, provisions to accommodate bus stops must be coordinated with the Broward County Mass Transit Agency, telephone number (954) 357-8400.
5. The maintenance of traffic shall include provisions for school pedestrian traffic with the following minimum requirements: The safe walk routes for all schools within the vicinity of the construction zone shall be maintained during the times students are arriving at or leaving school. All construction equipment around any designated crosswalk shall cease to operate during the times students are arriving at or leaving school. All construction equipment adjacent to a designated walk route shall cease operating unless satisfactorily barricaded from the walk route. In the case that a designated crossing on any portion of the designated walk route cannot be maintained, then the contractor shall notify the school safety coordinator at Broward County Traffic Engineering Division, (954) 847-2600, a minimum of ten (10) working days prior to closing that route so that an alternate crossing/route can be established. Thirty (30) days prior to the beginning of construction the contractor shall notify the school safety coordinator at Broward County Traffic Engineering Division, (954) 847-2600, to arrange a pre-construction school safety meeting.

Landscapes plan specific notes:

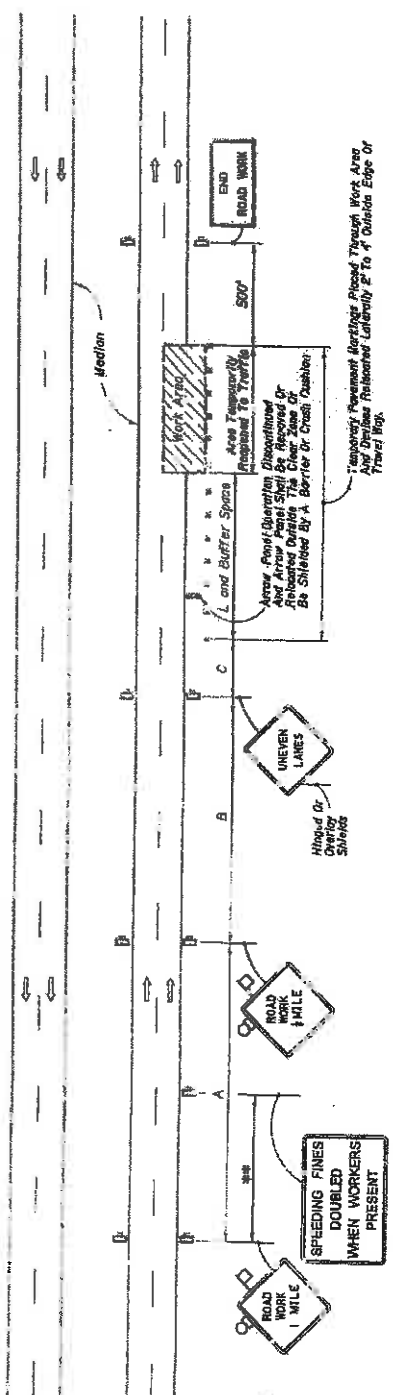
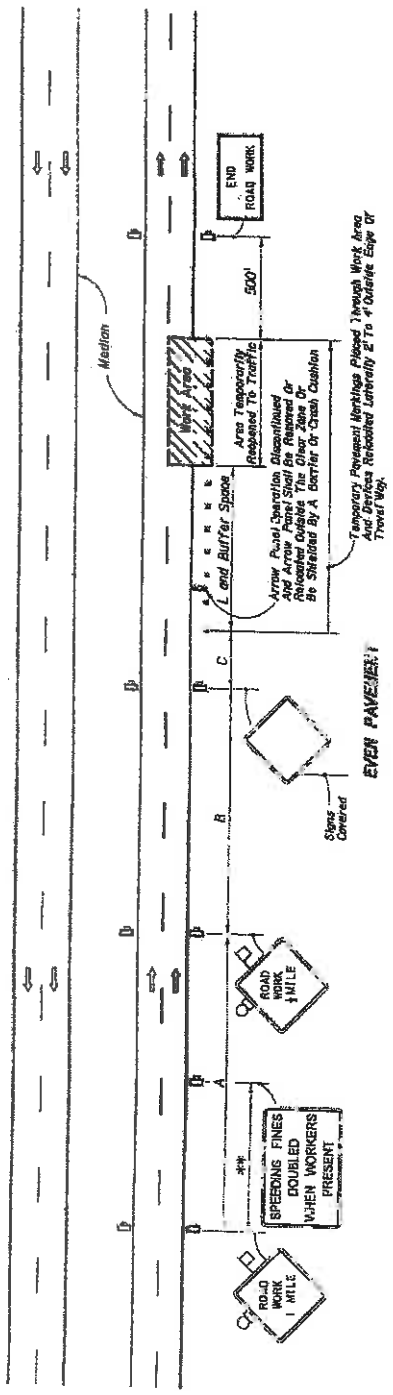
1. For landscape work within or near median, reference sheets LD-26 and LD-27 (index 6 13). For landscape work along outer edges and ramp area, reference sheet LD-8 (index 6 12).
2. INTERSECTIONS: Vista Verde Entrances, South Lyons Road on and off ramps, North Lyons Road on and off ramps, Lyons Road, Florida's Turnpike on ramp.
3. FDOT standard index 616 must be implemented when median work near intersection condition exists.
4. Traffic control at intersections must provide sight distances for the road user to perceive potential conflicts and to traverse the intersection safely.
5. Contractor to cover signal heads or make signal head revisions where impacted due to maintenance of traffic per FDOT standard index 600 and latest traffic operations office. Broward County Transit Route 42 runs along SR 814.
6. Maintenance of traffic shall include provisions for pedestrians and / or school traffic as well as vehicular traffic. Contractor to comply with all school safety requirements as outlined in the BCTED Maintenance of traffic Schedule / pedestrian criteria.

DATE	BY	DESCRIPTION	REVISIONS

MILLER LEGG
 570 North Adams Way, Fort Lauderdale, Florida 33309-3344
 954-535-1000, fax: 954-535-9660, www.millerlegg.com
 Cal. # of Mch. 18000310, Reg. # of Trans. 18-00000000000000000000

CITY OF COCONUT CREEK
 ROAD NO. 814 COUNTY BROWARD
 MILLER LEGG PROJECT ID 10-00247

TRAFFIC CONTROL NOTES
 SHEET NO. LD-28



INTERMITTENT WORK STOPPAGE - LANE RESERVED TO TRAFFIC

09/15/11

REVISIONS		DESCRIPTION		DATE		BY	

MILLER LEGG 604 N.W. 13th Street, Ft. Lauderdale, FL 33309 (954) 575-3300 Fax: (954) 575-3301 E-mail: mlg@mllegg.com		CITY OF COCONUT CREEK MILLER LEGG PROJECT ID		SHEET NO.	
ROAD NO. 814		COUNTY BROWARD		LD-29	
PROJECT NO. 10-00249					

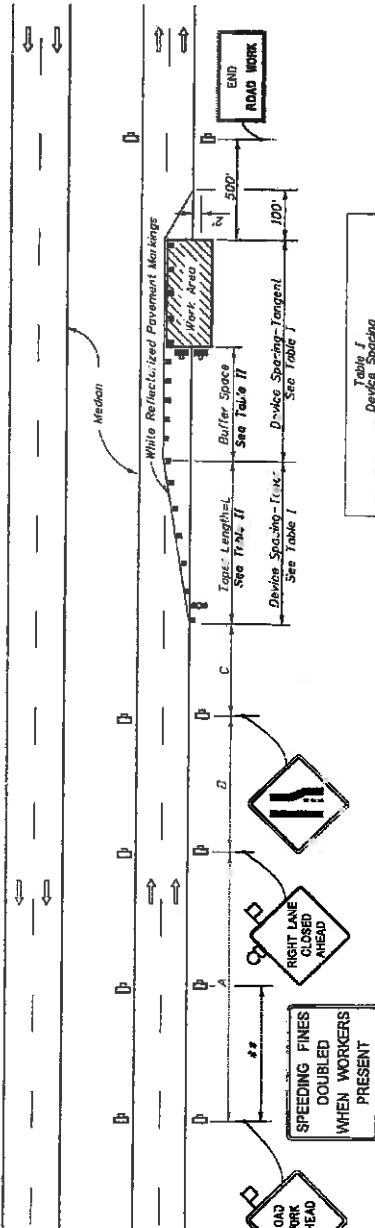


Table II
Buffer Space and Taper Length

Speed (mph)	Buffer Space (ft.)	Taper Length (ft.)	Notes (see text)
25	195	125	
30	200	180	
35	250	245	$L = \frac{W^2}{60}$
40	305	320	
45	360	540	
50	425	600	
55	495	660	
60	570	720	L 1WS
65	645	780	
70	730	840	

When Buffer Space cannot be obtained due to geometric constraints, the greatest obtainable length shall be used, but not less than 200 ft.

For tapered transitions other than 1", use formula for L shown in the notes column.

Where:
L = Length of taper in feet
W = Width of lateral transition in feet
S = Posted speed limit (mph)

Table I
Device Spacing

Spacing (ft.)	Sign or Barricade	Type I or Type II	Notes
30 to 45	Sign	Sign	
50 to 70	Sign	Sign	
75	Sign	Sign	
100	Sign	Sign	

GENERAL NOTES

- Work operations shall be confined to one traffic lane, leaving the adjacent lanes open to traffic.
- On undivided highways the median signs as shown are to be omitted.
- When work is performed in the median lane on divided highways, the remaining traffic lane is inverted and left lane closed and lane ends sign substituted for the right lane closed and lane ends sign. The same applies to undivided highways with the following exceptions:
(a) Work shall be confined within one median lane.
(b) Additional barricades, cones or drums shall be placed along the median, abutting the work area and across the trailing end of the work area.
When work on undivided highways occurs across the centerline so as to encroach on both median lanes, the inverted plan is applied to the approach on both roadways.
- Signs and traffic control devices are to be modified in accordance with INTERMITTENT WORK STOPPAGE details (sheet 2 of 2) when no work is being performed and the highway is open to traffic.
- The two channelizing devices directly in front of the work area may be omitted provided vehicles in the high-intensity retarding, flashing, escalating, or strobe lights operating.
- When pavement shoulders having a width of 8 ft. or more are closed, channelizing devices shall be used to close the shoulder in advance of the work area. The devices shall be spaced to remain within the travel way. See Index No. 612 for shoulder taper formulas.

DISTANCE BETWEEN SIGNS

Speed	Spacing (ft.)
40 mph or less	A, B, C
45 mph	250
50 mph	350
55 mph	500
60 mph	650
65 mph or greater	850 (650) (500)

* The ROAD WORK 1 MILE sign may be used as an alternative to the ROAD WORK AHEAD sign and the RIGHT LANE CLOSED 1/2 MILE sign on alternate to the ROAD WORK AHEAD sign and the RIGHT LANE CLOSED AHEAD sign.

** 500' beyond the ROAD WORK AHEAD sign or midway between signs whichever is less.

SYMBOLS

- Work Area
- Sign With 18" x 18" (M6)
- Orange Flag And Type B Light
- Channelizing Device (See Index No. 600)
- Type I Type II Or Type III Barricade Or Vertical Panel Drum (With Flashing Light)
- Work Zone Sign
- Advance Warning Arrow Panel

- When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TTC indexes.
- This TTC plan does not apply when work is being performed in the middle lane(s) of a six or more lane highway. See Index No. 614.
- For general TTC requirements and additional information, refer to Index No. 600.

DURATION NOTES

- Temporary white signage may be omitted for work operations less than 3 days.
- Signs, arrow panel and buffer space may be omitted if all of the following conditions are met:
a) Work operations are 60 minutes or less.
b) The sign is placed in the work area to vehicles approaching the work area for a distance equal to the buffer space and the taper length combined.
c) Vehicles in the work area have high-intensity, rotating, flashing, escalating, or strobe lights operating.
d) Volume and complexity of the roadway has been considered.

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENDOCHORE ON THE LANE ADJACENT TO EITHER SHOULDER AND THE AREA 2' OUTSIDE THE EDGE OF TRAVEL WAY.

02/21/11
S. O.

DATE	BY	DESCRIPTION	REVISIONS	DATE	BY	DESCRIPTION

CITY OF COCONUT CREEK
ROAD NO. 614
COUNTY PINAL
PROJECT ID 10-00249

MILLER LEGG
600 N.W. 11th Way, Suite 400, Fort Lauderdale, Florida 33309
561-911-2000 Fax: 561-911-6700 www.millerlegg.com
City of Miami, 33007315 - Supplier of Record for S. 10000

TRAFFIC CONTROL DETAIL

SHEET NO. LD-30

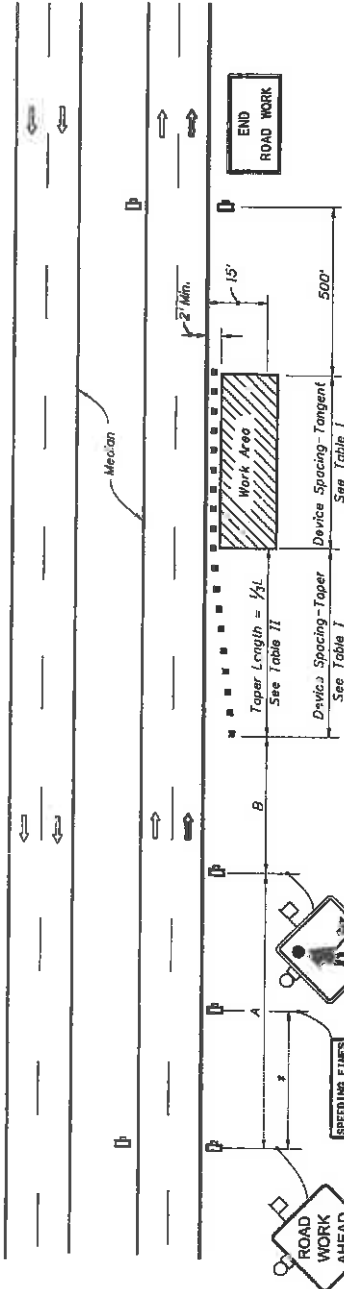


Table II
Taper Length - Shoulder

Speed (mph)	1/2 L (ft.)		Notes
	8' Shldr.	12' Shldr.	
25	28	35	42
30	40	50	60
35	55	68	82
40	72	90	107
45	120	150	180
50	133	167	200
55	147	185	220
60	160	200	240
65	173	217	260
70	187	233	280

8' minimum shoulder width.
1/2 L = Length of shoulder taper in feet
W = Width of total shoulder in feet (combined paved and unpaved width)
S = Posted speed limit (mph)

Table I
Device Spacing

Speed (mph)	Max. Distance Between Devices (ft.)	
	Cones or Tubular Markers	Type I or Type II Barricades or Vertical Panels or Drums
25	25	50
30 to 45	25	50
50 to 70	25	50
70 to 100	30	100

DISTANCE BETWEEN SIGNS

Speed	Spacing (ft.)	
	A	B
40 mph or less	200	500
45 mph	350	350
50 mph or greater	500	500

* 500' beyond the ROAD WORK AHEAD sign or midway between signs, whichever is less.

SYMBOLS

- Work Area
- Sign With 18"x18" (Min.) Orange Flag And Type B Light
- Channelizing Device (See Index No. 600)
- Work Zone Sign
- Lane Identification + Direction of Traffic

GENERAL NOTES

1. If the work operation encroaches on the through traffic lanes or in a one hour period (excluding establishing and terminating the work area), a flagger shall be provided and a FLAGGER sign shall be substituted for the WORKERS sign. The flagger shall be positioned at the point of vehicle entry or departure from the work area.
2. This TCZ plan also applies to work performed in the median more than 2' but less than 15' from the edge of travelway.
3. When work is being performed on a multilane undivided roadway the signs normally mounted in the median (as shown) shall be omitted.
4. WORKERS signs to be removed or fully covered when no work is being performed.
5. SHOULDER WORK sign may be used as an alternate to the WORKER symbol sign.
6. When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ indexes.
7. For general TCZ requirements and additional information, refer to Index No. 600.

DURATION NOTES

1. Signs and channelizing devices may be omitted if all the following conditions are met:
 - a) Work operations are 15' or less.
 - b) Vehicles in the work area have sign-biannally rotating, flashing, oscillating, or strobe lights operating.

CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENDOURGE THE AREA CLOSER THAN 15' BUT NOT CLOSER THAN 2' TO THE EDGE OF TRAVEL WAY.

REVISIONS

DATE	BY	DESCRIPTION

MILLER LEGG
601 N.W. 11th Way, Suite 100, Ft. Lauderdale, Florida 33309
Phone: (305) 554-4400 Fax: (305) 554-4402 www.millerlegg.com
Out of State: (800) 378-1111 E-mail: sales@mlleg.com; info@mlleg.com

CITY OF COCONUT CREEK
ROAD NO. COUNTY MILLER LEGG PROJECT ID
B14 BROWARD 10-00249

TRAFFIC CONTROL DETAIL

SHEET NO. LD-31

MAINTENANCE PLAN

Landscape Improvements

Project State Road No(s): 814
Project Limits: MP 0.899 to MP 1.230 and MP 1.230 to MP 1.715
FM No(s): 426010-1-58-01 and 426011-1-58-01
Maintaining Agency: City of Coconut Creek
RLA of Record: Brian Shore
Date: 03-08-11

I. General Maintenance Requirements and Recommendations:

The purpose of a plan for the landscape improvements maintenance practices is to allow the plant material on your project to thrive in a safe and vigorous manner while fulfilling their intended purpose and conserving our natural resources. Plantings and all other landscape improvements shall be maintained to avoid potential roadway hazards and to provide required clear visibility, accessibility, clearance, and setbacks as set forth by Florida Department of Transportation (FDOT) governing standards and specifications: *FDOT Design Standards, FDOT Plans Preparation Manual Vol. I, Chapter 2.11* and *FDOT Standard Specifications for Road and Bridge Construction*, as amended by the contract documents, and all other requirements set forth by the District 4 Operations Maintenance Engineer. The initial portion of the Maintenance Plan describes general maintenance requirements and recommendations. The concluding section provides recommendations prepared by the Registered Landscape Architect of Record specific to the attached approved plans.

Watering Requirements:

Watering is a critical concern for not only the maintenance of healthy plant material but also for observing water conservation practices. The amount of water to apply at any one time varies with the weather, drainage conditions and water holding capacity of the soil. For plant materials that have been established, it is imperative that any mandated water restrictions be fully conformed to on FDOT roadways.

Proper watering techniques should provide even and thorough water dispersal to wet the entire root zone, but not saturate the soil or over-spray onto travel lanes.

Irrigation System:

The Agency shall ensure there are no roadway overspray or irrigation activities during daytime hours (most notably "rush hour" traffic periods). It is imperative the irrigation controller is properly set to run early enough that the watering process will be entirely completed before high traffic periods, while adhering to mandated water restrictions. To ensure water conservation, the Agency shall monitor the system for water leaks and the rain sensors to ensure they are functioning properly so that the system shuts down when there is sufficient rainfall.

Integrated Plant Management:

An assessment of each planting area's soil is recommended to periodically determine the nutrient levels needed to sustain healthy, vigorous plant growth.

Palms, shrubs, trees and turf areas shall be fertilized in such a manner and frequency to ensure that the plant material remains healthy and vigorously growing. Establishment of an integrated pest management program is encouraged to ensure healthy plants, which are free of disease and pests.

Mulching:

Mulch planting beds in such a manner as to prevent weed growth, retain moisture to the plants, protect against soil erosion and nutrient loss, maintain a more uniform soil temperature, and improve the appearance of the planting beds. Avoid mulch mounded up on the trunks of trees, palms, and the base of shrubs to encourage air movement in this area which aids in lowering disease susceptibility. Cypress mulch is prohibited on state right of way.

Pruning:

All pruning, and the associated safety criteria, shall be performed according to American National Standard Institute (ANSI) A300 standards and shall be supervised by an International Society of Arboriculture (ISA) Certified Arborist. Pruning shall be carried out with the health and natural growth of plant materials in mind, to specific pruning heights maintaining clear visibility for motorists, and provide vertical clearance for pedestrian, bicyclist, and truck traffic where applicable. Visibility windows must be maintained free of view obstructions, and all trees and palms (with particular attention to fronds and fruit) must be maintained to prevent potential roadway and pedestrian hazards. The specific pruning heights are determined by understanding the designer's intent when selecting and placing the plants. The intended mature maintained height and spread of plants are noted on the planting plans. (See Part II. Specific Requirements and Recommendations per approved landscape & irrigation design for these guidelines). The understory plant materials selected for use within the restricted planting areas (Limits of Clear Sight) are to be maintained at a height in compliance with *FDOT Design Standards* Index 546; Page 6 of 6, Window Detail. Vertical tree heights must meet *FDOT Maintenance Rating Program* (MRP) standards.

Staking and Guying:

All staking materials, except for replacements, are to be removed by the completion of FDOT warranty period or at one year (whichever comes first). Any subsequent staking and guying activities by the Agency must adhere to *FDOT Design Standards* guidelines (See Index 544). The Agency shall closely monitor staking and guying attachment materials so that they are securely fastened to avoid potential roadway hazards.

Turf Mowing:

All grassed areas are to be mowed and trimmed with sufficient frequency to maintain a deep, healthy root system while providing a neat and clean appearance to the urban landscape. All turf efforts, mowing, curb/sidewalk edging and turf condition, must meet *FDOT Maintenance Rating Program* (MRP).

Litter Control:

The project site shall remain as litter free as practicable. It is recommended to recycle this litter to avoid unnecessary waste by its reuse. Litter removal efforts must meet *FDOT Maintenance Rating Program* (MRP) standards.

Weeding/Herbicide:

All planting areas shall be maintained as weed free as practicable by enlisting integrated pest management practices in areas specified on the plans and maintaining proper mulch levels. Extreme care is recommended if using a chemical herbicide to avoid overspray onto plant materials. It is the applicator's responsibility to restore any damage, resulting from overspray to the plantings, per the approved plans.

Plant Replacement:

Plant replacement shall be the same species and specification as the approved plan. Move and replace all plant materials that may conflict with utility relocations and service. Only plants graded Florida #1 or better, per the *Florida Department of Agriculture and Consumer Services, Grades and Standards for Nursery Plants* are permitted on FDOT roadways. Should it become necessary to change the species, a general use permit is required from FDOT for approval by the FDOT District Landscape Architect.

Hardscape (Specialty Surfacing):

All specialty surfacing shall be maintained in such a manner as to prevent any potential tripping hazards and protect damage to the pavers. Final surface tolerance from grade elevations shall, at a minimum, meet the most current *Interlocking Concrete Pavement Institute (ICPI), Guide Specifications for Pavers on an Aggregate Base, Section 23 14 13 Interlocking Concrete Pavers, Part 3.05*. If the specialty surfacing or tree grates become damaged, they shall be replaced with the same type and specification as the approved plan.

Maintenance of Traffic Control :

Reference the FDOT website regarding the selection of the proper traffic control requirements to be provided during routine maintenance and / or new installations of this DOT roadway.

II. Specific Project Site Maintenance Requirements and Recommendations:

Hardscape Surfaces: a. Integrally-Colored Overlay surfaces; b. Pavers.

Routine maintenance of hardscape surfaces shall include inspections to determine color stability, cleanliness, potential trip hazard issues or settling issues, and chipping / cracking or delamination problems.

Remove efflorescence from the surfaces, as needed, with a mild acid solution or efflorescence remover. Apply a colored curing compound after efflorescence removal, matching the color of the concrete or paver. Re-seal the surface (with a clear sealer) following the efflorescence removal and curing.

Color-conditioned concrete flatwork / horizontal surfaces should be maintained by sweeping. On overlay surfaces, use low-pressure water or scrub surfaces with a mild detergent to remove surface dirt. Heavily soiled areas may be cleaned by scrubbing with a stiff bristle brush and properly diluted, high-quality commercial detergent.

Re-seal overlay surfaces as necessary or after the sealer coat is weathered or worn from the surface. Sealer should be a clear industry-approved concrete sealer suitable for colored-concrete surfaces. Follow manufacturer's instruction on application procedures.

Repair damaged areas to concrete surfaces (overlay areas) as needed with an integrally-colored concrete patch. Patch color to match existing surface color.

For pavers: sweep polymer sand in between the joints periodically or replace joint sand as needed. Remove weeds that appear in the paver field or between paver joints. Re-set pavers, as necessary, that become loose. Replace damaged pavers with a matching paver (match color and type). Seal pavers as needed with an industry-approved sealer.

REFERENCES

This reference list is provided as a courtesy. The list may not contain the most current websites. The most current references must be accessed for up to date information.

Accessible Sidewalk Videos (ADA)

<http://www.access-board.gov/news/sidewalk-videos.htm>

Americans with Disabilities Act (ADA) (ADAAG)

<http://www.ada.gov/NPRM2008/adastandards/adastds08.pdf>

American National Standard Institute, *ANSI A300, (Part 1) for Tree Care Operations – Trees, Shrub, and Other Woody Plant Maintenance – Standard Practices (Pruning)*, available for purchase

<http://www.treespecialists.com/pdfs/pruningstandards.pdf>

Florida Department of Agriculture and Consumer Services, Division of Plant Industry, *Florida Grades and Standards for Nursery Plants*, available for purchase

<http://www.doacs.state.fl.us/pi/pubs.html>

Florida Department of Community Affairs (DCA), *Florida Board of Building Codes & Standards, 2007 Florida Building Code, Chapter 11 Florida Accessibility Code for Building Construction Part A*

http://www2.iccsafe.org/states/florida_codes/

Florida Department of Transportation, *FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System, Index 544 Landscape Installation*

<http://www.dot.state.fl.us/rddesign/rd/RTDS/10/544.pdf>

Florida Department of Transportation, *FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System, Index 546 Sight Distance at Intersections*

<http://www.dot.state.fl.us/rddesign/rd/RTDS/10/546.pdf>

Florida Department of Transportation, *FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System, Index 600 Traffic Control through Work Zones*

<http://www.dot.state.fl.us/rddesign/rd/rtds/10/600.pdf>

Florida Department of Transportation, *FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System, Index 700 Roadside Offsets*

<http://www.dot.state.fl.us/rddesign/rd/RTDS/10/700.pdf>

Florida Department of Transportation, *FDOT Plans Preparation Manual (PPM) Vol. I Chapters 2.11.5, Horizontal Clearance to Trees; Table 2.11.9 Horizontal Clearance and Clear Zone; Figure 4.1.2 Clear Zone; and Table 25.4.11.1 Clear Zone Width (feet) and Table 25.4.14.6 (for existing) trees*

<http://www.dot.state.fl.us/rddesign/PPMManual/2009/Volume1/zChap02.pdf>

Florida Department of Transportation, *FDOT Standard Specifications for Road and Bridge Construction, Section 580 Landscape Installation*

<ftp://ftp.dot.state.fl.us/LTS/CO/Specifications/SpecBook/2010Book/580.pdf>

Florida Department of Transportation, Landscape Architecture Website
<http://www.dot.state.fl.us/emo/beauty/FLA.shtm>

Florida Department of Transportation, *Maintenance Rating Program Handbook*
<http://ombnet.dot.state.fl.us/procedures/bin/850065002.pdf>

Florida Department of Transportation, *Maintenance Rating Program Standards*
<http://www.dot.state.fl.us/statemaintenanceoffice/MRPHandbook2009Final.pdf>

Florida Department of Transportation Outdoor Advertising Database
<http://www2.dot.state.fl.us/rightofway/Default.aspx>

Florida Irrigation Society
<http://www.fisstaterg.org>

Florida Power and Light (FPL), *Plant the Right Tree in the Right Place*
www.FPL/trees

Guide to Roadside Mowing and Guide to Turf Management, available for purchase
<http://infonet.dot.state.fl.us/SupportServicesOffice/plist.htm>

Interlocking Concrete Pavement Institute (ICPI)
<http://www.icpi.org/>

International Society of Arboriculture (ISA)
www.isa-arbor.com

U.S. Department of Transportation, Federal Highway Administration, *Manual on Uniform Traffic Control Devices*
<http://www.mutcd.fhwa.dot.gov>

SECTION NO: 86039000
 S.R. NO(S): 814 (Atlantic Blvd)
 COUNTY: Broward
 FM NO.(S): 426010-1-58-01
 426011-1-58-01

EXHIBIT D

APPROXIMATE COST FOR LANDSCAPE IMPROVEMENTS

This Exhibit forms an integral part of the DISTRICT FOUR (4) Amendment to the HIGHWAY MAINTENANCE MEMORANDUM OF AGREEMENT between the State of Florida, Department of Transportation and the AGENCY.

Anticipated Terms of Separate Agreement

FM No. 426010-1-58-01

FDOT PARTICIPATION Via Separate Agreement	Up to	\$200,000.00
Estimated Project Cost Dated March 16, 2011		\$208,328.00

FM No. 426011-1-58-01

FDOT PARTICIPATION Via Separate Agreement	Up to	\$300,000.00
Estimated Project Cost Dated March 16, 2011		\$240,569.41

TOTAL APPROXIMATE PROJECT COST DATED MARCH 16, 2011 \$448,897.41

TOTAL FDOT PARTICIPATION VIA SEPARATE AGREEMENT UP TO \$500,000.00

OPINION OF PROBABLE COST

SR 814 / ATLANTIC BOULEVARD - CITY OF COCONUT CREEK

FM 426010-1-58-01

FROM WEST OF LYONS ROAD (WESTERN CITY LIMITS) (MP 0.889) TO LYONS ROAD (MP 1.230)

DETAILED QUANTITY SUMMARY

	QUANTITY	UNIT		TOTAL COST
MISCELLANEOUS PROJECT				
MOBILIZATION	1	LS	=	\$6,898.54
CLEARING AND GRUBBING	1	LS	=	\$2,232.85
MAINTENANCE OF TRAFFIC	1	LS	=	\$3,349.27
SUBTOTAL			=	\$12,280.66
LANDSCAPING				
LARGE CANOPY TREES & SOIL & STAKING & MULCH	12	EA	=	\$35,000.00
FLOWERING CANOPY TREES & SOIL & STAKING & MULCH	3	EA	=	\$11,200.00
ACCENT TREES IN BOSQUES & SOIL & STAKING & MULCH	28	EA	=	\$25,100.00
PALMS & SOIL & STAKING & MULCH	28	EA	=	\$9,450.00
HORIZONTAL COCOPLUM & SOIL & MULCH	210	EA	=	\$3,570.00
BLUEBERRY FLAX LILY & SOIL & MULCH	0	EA	=	\$0.00
PARSONS JUNIPER & SOIL & MULCH	135	EA	=	\$1,620.00
DWARF YALPON HOLLY & SOIL & MULCH	215	EA	=	\$3,655.00
MUHLI GRASS & SOIL & MULCH	130	EA	=	\$1,300.00
FAKAHATCHEE GRASS & SOIL & MULCH	130	EA	=	\$1,300.00
PERFORMANCE TURF - SOD & SOIL	0.24	AC	=	\$11,818.00
MOWING (DURING CONSTRUCTION)	0.47	AC	=	\$5,000.00
LITTER REMOVAL & DISPOSAL	0.47	AC	=	\$2,500.00
PLANT ESTABLISHMENT & MAINTENANCE	1	LS	=	\$15,000.00
LANDSCAPING SUBTOTAL			=	\$124,513.00
IRRIGATION				
PUMP STATION & CONTROLLER (shared cost)	1	EA	=	\$6,250.00
WELL (shared cost)	1	EA	=	\$2,250.00
IRRIGATION MAINLINE	1,358	LF	=	\$5,433.33
LATERAL LINES & FITTINGS	2,873	LF	=	\$5,746.00
BRIDGE CROSSING	0	LF	=	\$0.00
HEADS & MISC RISERS & ACCESSORIES	143	EA	=	\$2,850.00
REMOTE CONTROL VALVES & VALVE BOXES	8	EA	=	\$1,200.00
CONTROL W/IFE	2500	LF	=	\$1,250.00
ISOLATION GATE VALVES & VALVE BOXES	2	EA	=	\$350.00
SLEEVING	250	LF	=	\$2,000.00
DIRECTIONAL BORE	315	LF	=	\$12,600.00
IRRIGATION MAINTENANCE	1	LS	=	\$4,000.00
IRRIGATION SUBTOTAL			=	\$43,929.33
HARDSCAPE				
DECORATIVE OVERLAY - PATTERN CONCRETE MEDIAN NOSES	76	SY	=	\$4,180.00
DECORATIVE OVERLAY - PATTERN CONCRETE BRIDGE MEDIAN	0	SY	=	\$0.00
NEW HARDSCAPE TREATMENT - ARCHITECTURAL PAVERS	195	SY	=	\$17,550.00
NEW HARDSCAPE TREATMENT - PATTERN CONCRETE OVERLAY	0	SY	=	\$0.00
NEW HARDSCAPE TREATMENT - NEW CONCRETE BASE	0	SY	=	\$0.00
NEW HARDSCAPE TREATMENT - NEW LIMEROCK SUBBASE	195	SY	=	\$4,875.00
HARDSCAPE MAINTENANCE	1	LS	=	\$1,000.00
HARDSCAPE SUBTOTAL			=	\$27,605.00
TOTAL PROJECT				\$208,328.00

OPINION OF PROBABLE COST

SR 814 / ATLANTIC BOULEVARD - CITY OF COCONUT CREEK

FM 426011-1-58-01

FROM LYONS ROAD (MP 1.230) TO FLORIDA'S TURNPIKE (MP 1.715)

DETAILED QUANTITY SUMMARY

	QUANTITY	UNIT	TOTAL COST
MISCELLANEOUS PROJECT			
MOBILIZATION	1	LS =	\$9,279.01
CLEARING AND GRUBBING	1	LS =	\$3,093.10
MAINTENANCE OF TRAFFIC	1	LS =	\$4,633.06
SUBTOTAL		=	\$17,012.08
LANDSCAPING			
LARGE CANOPY TREES & SOIL & STAKING & MULCH	8	EA =	\$35,000.00
FLOWERING CANOPY TREES & SOIL & STAKING & MULCH	9	EA =	\$11,200.00
ACCENT TREES IN BOSQUES & SOIL & STAKING & MULCH	14	EA =	\$23,100.00
PALMS & SOIL & STAKING & MULCH	14	EA =	\$9,450.00
HORIZONTAL COCOPLUM & SOIL & MULCH	195	EA =	\$3,315.00
BLUEBERRY FLAX LILY & SOIL & MULCH	0	EA =	\$0.00
PARSONS JUNIPER & SOIL & MULCH	95	EA =	\$1,140.00
DWARF YAUPON HOLLY & SOIL & MULCH	350	EA =	\$5,950.00
MUFLY GRASS & SOIL & MULCH	65	EA =	\$650.00
FAKAHATCHEE GRASS & SOIL & MULCH	65	EA =	\$650.00
PERFORMANCE TURF - SOD & SOIL	0.24	AC =	\$11,818.00
MOWING (DURING CONSTRUCTION)	0.47	AC =	\$5,000.00
LITTER REMOVAL & DISPOSAL	0.47	AC =	\$2,500.00
PLANT ESTABLISHMENT & MAINTENANCE	1	LS =	\$15,000.00
LANDSCAPING SUBTOTAL		=	\$124,773.00
IRRIGATION			
PUMP STATION & CONTROLLER	1	EA =	\$6,250.00
WELL	1	EA =	\$2,250.00
IRRIGATION MAINLINE	1,358	LF =	\$5,433.33
LATERAL LINES & FITTINGS	2,973	LF =	\$5,748.00
BRIDGE CROSSING	150	LF =	\$2,250.00
HEADS & MISC RISERS & ACCESSORIES	143	EA =	\$2,850.00
REMOTE CONTROL VALVES & VALVE BOXES	5	EA =	\$1,200.00
CONTROL WIRE	2500	LF =	\$1,250.00
ISOLATION GATE VALVES & VALVE BOXES	2	EA =	\$350.00
SLEEVING	250	LF =	\$2,000.00
DIRECTIONAL BORE	315	LF =	\$12,600.00
IRRIGATION MAINTENANCE	1	LS =	\$4,000.00
IRRIGATION SUBTOTAL		=	\$46,179.33
HARDSCAPE			
DECORATIVE OVERLAY - PATTERN CONCRETE MEDIAN NOSES	76	SY =	\$4,180.00
DECORATIVE OVERLAY - PATTERN CONCRETE BRIDGE MEDIAN	295	SY =	\$16,225.00
NEW HARDSCAPE TREATMENT - ARCHITECTURAL PAVERS	207	SY =	\$18,630.00
NEW HARDSCAPE TREATMENT - PATTERN CONCRETE OVERLAY	47	SY =	\$2,585.00
NEW HARDSCAPE TREATMENT - NEW CONCRETE BASE	47	SY =	\$2,585.00
NEW HARDSCAPE TREATMENT - NEW LIMEROCK SUBBASE	256	SY =	\$6,400.00
HARDSCAPE MAINTENANCE	1	LS =	\$2,000.00
HARDSCAPE SUBTOTAL		=	\$52,605.00
TOTAL PROJECT			\$240,569.41