

Construction Agreement No.: _____

THIS CONSTRUCTION AGREEMENT (this "Agreement") is made and entered into by and between the State of Florida, Department of Transportation, (Address) 1000 NW 111th Ave, Room 6201, Miami FL 33172 (hereinafter referred to as the "DEPARTMENT") and City of North Miami (Address) 12400 NE 8th Ave, North Miami, FL 33161 (hereinafter referred to as the "Construction Coordinator").

WITNESSETH:

WHEREAS, the DEPARTMENT is authorized and required by Section 334.044(13), Florida Statutes, to coordinate the planning, development, and operation of the State Highway System; and

WHEREAS, pursuant to Section 339.282, Florida Statutes, the DEPARTMENT may contract with a property owner to finance, construct, and improve public transportation facilities; and

WHEREAS, the Construction Coordinator proposes to construct certain improvements to SR 909 Section _____ Subsection _____ from Begin MP _____ to End MP _____ Local Name _____ located in Miami Dade County (hereinafter referred to as the "Project"); and

WHEREAS, the parties desire to enter into this Agreement for the Construction Coordinator to make improvements within the DEPARTMENT'S right of way to construct the Project, which will become the property of the Department upon acceptance of the work.

NOW, THEREFORE, based on the premises above, and in consideration of the mutual covenants contained herein, the parties hereby agree that the construction of the Project shall proceed in accordance with the following terms and conditions:

1. The recitals set forth above are specifically incorporated herein by reference and made a part of this Agreement. The Construction Coordinator is authorized, subject to the conditions set forth herein, to enter the DEPARTMENT'S right of way to perform all activities necessary for the construction of **See attached exhibit A scope of services/special provisions.**

2. The Project shall be designed and constructed in accordance with the latest edition of the DEPARTMENT'S Standard Specifications for Road and Bridge Construction and DEPARTMENT Design Standards and Manual of Uniform Traffic Control Devices ("MUTCD"). The following guidelines shall apply as deemed appropriate by the DEPARTMENT: the DEPARTMENT Structures Design Manual, AASHTO Guide Specifications for the Design of Pedestrian Bridges, AASHTO LRFD Bridge Design Specifications, the DEPARTMENT Plans Preparation Manual ("PPM") Manual for Uniform Minimum Standards for Design, Construction and Maintenance for Streets and Highways (the "Florida Green Book") and the DEPARTMENT Traffic Engineering Manual. The Construction Coordinator will be required to submit any construction plans required by the DEPARTMENT for review and approval prior to any work being commenced. Should any changes to the plans be required during construction of the Project, the Construction Coordinator shall be required to notify the DEPARTMENT of the changes and receive approval from the DEPARTMENT prior to the changes being constructed. The Construction Coordinator shall maintain the area of the project at all times and coordinate any work needs of the DEPARTMENT during construction of the project.

3. The Construction Coordinator shall notify the DEPARTMENT a minimum of 48 hours before beginning construction within DEPARTMENT right of way. The Construction Coordinator shall notify the DEPARTMENT should construction be suspended for more than 5 working days.

4. Pursuant to Section 7-13 of the DEPARTMENT Standard Specifications, the Construction Coordinator is required to possess a general liability insurance naming the DEPARTMENT as an additional insured and insuring the DEPARTMENT and the Construction Coordinator against any and all claims for injury or damage to persons and property, and for the loss of life or property that may occur (directly or indirectly) by reason of the Construction Coordinator accessing DEPARTMENT right of way and the Construction Coordinator's performance of the Project. Such amount shall be carried in a minimum amount of not less than One Million and 00/100 Dollars (\$ 1,000,000) for bodily injury or death to any one person or any number of persons in any one occurrence, and not less than One Million and 00/100 Dollars (\$ 1,000,000) for property damage, or a combined coverage of not less than Two Million and 00/100 Dollars (\$ 2,000,000). Additionally, the Construction Coordinator shall supply the DEPARTMENT with a payment and performance bond in the amount of the estimated cost of construction, provided by a surety authorized to do business in the State of Florida, payable to the DEPARTMENT. The bond and insurance shall remain in effect until completion of construction and acceptance by the DEPARTMENT. Prior to commencement of the Project and on such other occasions as the DEPARTMENT may reasonably require, the Construction Coordinator shall provide the DEPARTMENT with certificates documenting that the required insurance coverage is in place and effective. If the Construction Coordinator is a governmental entity they will be exempt from these requirements.

5. The Construction Coordinator shall be responsible for monitoring construction operations and the maintenance of traffic ("MOT") throughout the course of the project in accordance with the latest edition of the DEPARTMENT Standard Specifications, section 102. The Construction Coordinator is responsible for the development of a MOT plan and making any changes to that plan as necessary. The MOT plan shall be in accordance with the latest version of the DEPARTMENT Design Standards, Index 600 series. Any MOT plan developed by the Construction Coordinator that deviates from the DEPARTMENT Design Standards must be signed and sealed by a professional engineer. MOT plans will require approval by the DEPARTMENT prior to implementation.

6. The Construction Coordinator shall be responsible for locating all existing utilities, both aerial and underground, and for ensuring that all utility locations be accurately documented on the construction plans. All utility conflicts shall be fully resolved directly with the applicable utility.

7. The Construction Coordinator will be responsible for obtaining all permits that may be required by other agencies or local governmental entities.

8. It is hereby agreed by the parties that this Agreement creates a permissive use only and all improvements resulting from this agreement shall become the property of the DEPARTMENT. Neither the granting of the permission to use the DEPARTMENT right of way nor the placing of facilities upon the DEPARTMENT property shall operate to create or vest any property right to or in the Construction Coordinator, except as may otherwise be provided in separate agreements. The Construction Coordinator shall not acquire any right, title, interest or estate in DEPARTMENT right of way, of any nature or kind whatsoever, by virtue of the execution, operation, effect, or performance of this Agreement including, but not limited to, the Construction Coordinator's use, occupancy or possession of DEPARTMENT right of way. The parties agree that this Agreement does not, and shall not be construed to, grant credit for any future transportation concurrency requirements pursuant to chapter 163, Florida Statutes.

9. The Construction Coordinator shall perform all required testing associated with the design and construction of the project. Testing results shall be made available to the DEPARTMENT upon request. The DEPARTMENT shall have the right to perform its own independent testing during the course of the Project.

10. The Construction Coordinator shall exercise the rights granted herein and shall otherwise perform this Agreement in a good and workmanlike manner, with reasonable care, in accordance with the terms and provisions of this Agreement and all applicable federal, state, local, administrative, regulatory, safety and environmental laws, codes, rules, regulations, policies, procedures, guidelines, standards and permits, as the same may be constituted and amended from time to time, including, but not limited to, those of the DEPARTMENT, applicable Water Management District, Florida Department of Environmental Protection, Environmental Protection Agency, the Army Corps of Engineers, the United States Coast Guard and local governmental entities.

11. If the DEPARTMENT determines a condition exists which threatens the public's safety, the DEPARTMENT may, at its discretion, cause construction operations to cease and immediately have any potential hazards removed from its right of way at the sole cost, expense, and effort of the Construction Coordinator. The Construction Coordinator shall bear all construction delay costs incurred by the DEPARTMENT.

12. All work and construction shall be completed within 365 days of the date of the last signature affixed to this agreement. If construction is not completed within this time, the DEPARTMENT may make a claim on the bond. The DEPARTMENT may terminate this Agreement at any time, with or without cause and without DEPARTMENT liability to the Construction Coordinator, by providing sixty (60) days prior written notice of termination to the Construction Coordinator.

13. The Construction Coordinator shall be responsible to maintain and restore all features that might require relocation within the DEPARTMENT right of way.

14. The Construction Coordinator will be responsible for clean up or restoration required to correct any environmental or health hazards that may result from construction operations.

15. Upon completion of construction, the Construction Coordinator will be required to submit to the DEPARTMENT final as-built plans and an engineering certification that construction was completed in accordance to the plans. Prior to the termination of this Agreement, the Construction Coordinator shall remove its presence, including, but not limited to, all of the Construction Coordinator's property, machinery, and equipment from DEPARTMENT right of way and shall restore those portions of DEPARTMENT right of way disturbed or otherwise altered by the Project to substantially the same condition that existed immediately prior to the commencement of the Project.

16. If the DEPARTMENT determines that the Project is not completed in accordance with the provisions of this Agreement, the DEPARTMENT shall deliver written notification of such to the Construction Coordinator. The Construction Coordinator shall have thirty (30) days from the date of receipt of the DEPARTMENT'S written notice, or such other time as the Construction Coordinator and the DEPARTMENT mutually agree to in writing, to complete the Project and provide the DEPARTMENT with written notice of the same (the "Notice of Completion"). If the Construction Coordinator fails to timely deliver the Notice of Completion, or if it is determined that the Project is not properly completed after receipt of the Notice of Completion, the DEPARTMENT, within its discretion may: 1) provide the Construction Coordinator with written authorization granting such additional time as the DEPARTMENT deems appropriate to correct the deficiency(ies); or 2) correct the deficiency(ies) at the Construction Coordinator's sole cost and expense, without DEPARTMENT liability to the Construction Coordinator for any resulting loss or damage to property, including, but not limited to, machinery and equipment. If the DEPARTMENT elects to correct the deficiency(ies), the DEPARTMENT shall provide the Construction Coordinator with an invoice for the costs incurred by the DEPARTMENT and the Construction Coordinator shall pay the invoice within thirty (30) days of the date of the invoice.

17. Nothing in this Agreement shall be deemed or otherwise interpreted as waiving the DEPARTMENT'S sovereign immunity protections, or as increasing the limits of liability as set forth in Section 768.28, Florida Statutes. The DEPARTMENT'S liability for breach of this Agreement is limited in amount and shall not exceed the limitations of liability for tort actions as set forth in Section 768.28(5), Florida Statutes.

18. All formal notices, proposed changes and determinations between the parties hereto and those required by this Agreement, including, but not limited to, changes to the notification addresses set forth below, shall be in writing and shall be sufficient if mailed by regular United States mail, postage prepaid, to the parties at the contact information listed below.

19. The Construction Coordinator shall not cause any liens or encumbrances to attach to any portion of DEPARTMENT right of way.

20. This Agreement shall be governed by the laws of the State of Florida in terms of interpretation and performance. Venue for any and all actions arising out of or in any way related to the interpretation, validity, performance or breach of this Agreement shall lie exclusively in a state court of appropriate jurisdiction in Miami-Dade County, Florida.

21. The Construction Coordinator may not assign, pledge or transfer any of the rights, duties and obligations provided in this Agreement without the prior written consent of the DEPARTMENT'S District Secretary or his/her designee. The DEPARTMENT has the sole discretion and authority to grant or deny proposed assignments, with or without cause. Nothing herein shall prevent the Construction Coordinator from delegating its duties hereunder, but such delegation shall not release the Construction Coordinator from its obligation to perform this Agreement.

22. This Agreement shall be binding upon and inure to the benefit of the parties hereto and their respective successors and assigns. Nothing in this Agreement is intended to confer any rights, privileges, benefits, obligations or remedies upon any other person or entity except as expressly provided for herein.

23. This instrument, together with the attached exhibits and documents made part hereof by reference, contain the entire agreement of the parties and no representations or promises have been made except those that are specifically set out in this Agreement. All prior and contemporaneous conversations, negotiations, possible and alleged agreements and representations, covenants, and warranties with respect to the subject matter of this Agreement, and any part hereof, are waived, merged herein and superseded hereby.

24. By their signature below, the parties hereby acknowledge the receipt, adequacy and sufficiency of consideration provided in this Agreement and forever waive the right to object to or otherwise challenge the same.

25. The failure of either party to insist on one or more occasions on the strict performance or compliance with any term or provision of this Agreement shall not be deemed a waiver or relinquished in the future of the enforcement thereof, and it shall continue in full force and effect unless waived or relinquished in writing by the party seeking to enforce the same.

26. No term or provision of this Agreement shall be interpreted for or against any party because that party or that party's legal representative drafted the provision.

27. If any section, paragraph, clause or provision of this Agreement is adjudged by a court, agency or authority of competent jurisdiction to be invalid, illegal or otherwise unenforceable, all remaining parts of this Agreement shall remain in full force and effect and the parties shall be bound thereby so long as principle purposes of this Agreement remain enforceable.

28. A modification or waiver of any of the provisions of this Agreement shall be effective only if made in writing and executed with the same formality as this Agreement.

29. The Construction Coordinator agrees to promptly indemnify, defend, save and hold harmless the DEPARTMENT and all of its officers, agents and employees from and pay all demands, claims, judgments, liabilities, damages, fines, fees, taxes, assessments, penalties, costs, expenses, attorneys' fees and suits of any nature or kind whatsoever caused by, or arising out of or related to the performance or breach of this Agreement by the Construction Coordinator, including, without limitation, performance of the Project within the DEPARTMENT'S right of way. The term "liabilities" shall specifically include, without limitation, any act, action, neglect or omission by the Construction Coordinator, its officers, agents, employees or representatives in any way pertaining to this Agreement, whether direct or indirect, except that neither the Construction Coordinator nor any of its officers, agents, employees or representatives will be liable under this provision for damages arising out of injury or damages directly caused or resulting from the sole negligence, intentional or wrongful acts of the DEPARTMENT or any of its officers, agents or employees. The Construction Coordinator shall notify the DEPARTMENT in writing immediately upon becoming aware of such liabilities. The Construction Coordinator's inability to evaluate liability, or its evaluation of liability, shall not excuse performance of the provisions of this paragraph. The indemnities assumed by the Construction Coordinator shall survive termination of this Agreement. The insurance coverage and limits required in this Agreement may or may not be adequate to protect the DEPARTMENT and such insurance coverage shall not be deemed a limitation on the Construction Coordinator's liability under the indemnities granted to the DEPARTMENT in this Agreement.

30. Construction Coordinator:

- (1) shall utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the Construction Coordinator during the term of the contract; and
- (2) shall expressly require any subcontractors performing work or providing services pursuant to the state contract to likewise utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all new employees hired by the subcontractor during the contract term.

31. COMPLIANCE WITH LAWS

The Construction Coordinator shall allow public access to all documents, papers, letters, or other material subject to the provisions of Chapter 119, Florida Statutes, and made or received by the Construction Coordinator in conjunction with this Agreement. Specifically, if the Construction Coordinator is acting on behalf of a public agency the Construction Coordinator shall:

- (1) Keep and maintain public records that ordinarily and necessarily would be required by the Department in order to perform the services being performed by the Construction Coordinator.
- (2) Provide the public with access to public records on the same terms and conditions that the Department would provide the records and at a cost that does not exceed the cost provided in Chapter 119, Florida Statutes, or as otherwise provided by law.
- (3) Ensure that public records that are exempt or confidential and exempt from public records disclosure requirements are not disclosed except as authorized by law.
- (4) Meet all requirements for retaining public records and transfer, at no cost, to the Department all public records in possession of the Construction Coordinator upon termination of the contract and destroy any duplicate public records that are exempt or confidential and exempt from public records disclosure requirements. All records stored electronically must be provided to the Department in a format that is compatible with the information technology systems of the Department. Failure by the Construction Coordinator to grant such public access shall be grounds for immediate unilateral cancellation of this Agreement by the Department. The Construction Coordinator shall promptly provide the Department with a copy of any request to inspect or copy public records in possession of the Construction Coordinator and shall promptly provide the Department a copy of the Construction Coordinator's response to each such request.

CONSTRUCTION COORDINATOR CONTACT INFORMATION

Name Larry M. Spring, Jr., CPA Title City Manager
Office No. 305-895-9888 Cell _____ Email lspring@northmiamifl.gov

Name _____ Title _____
Office No. _____ Cell _____ Email _____

Mail Address 12400 NE 8th Avenue, North Miami FL 33161

IN WITNESS WHEREOF, Construction Coordinator and the DEPARTMENT have executed this Agreement for the purposes herein expressed on the dates indicated below.

CONSTRUCTION COORDINATOR

By: _____ (Signature)

Larry M. Spring, Jr., CPA (Print Name)

City Manager (Title)

5/29/18 (Date)

DEPARTMENT OF TRANSPORTATION

By: _____ (Signature)

_____ (Print Name)

_____ (Title)

_____ (Date)

Legal Review:

ADDENDUM

The following terms and conditions are incorporated into and form a part of the Construction Agreement, dated _____, between the State of Florida, Department of Transportation, 1000 N.W. 111th Avenue, Miami FL 33172 (hereafter referred to as the "DEPARTMENT") and the City of North Miami, a Florida municipal corporation located in Miami-Dade County, (hereinafter referred to as the "Construction Coordinator").

Addendum Controlling. In the event there is a conflict between the terms and conditions of the Agreement or any attachments, exhibits or addenda thereto and this Addendum, this Addendum shall control.

The following language will be added as paragraph 32 and 33

32. nothing in this agreement shall be deemed or otherwise interpreted as waiving the construction coordinator's sovereign immunity protections, or as increasing the limits of liability as set forth in Section 768.2§, Florida Statutes.

33. The hold harmless and indemnity given by the Construction Coordinator in the Agreement is subject to the limitations of Section 768.2§, Florida Statutes, and is limited to the negligent acts or omissions of the Construction Coordinator in the performance of this Agreement.

MITIGATION NOTES

THE PROPOSED PLAN SPECIFIES THE REMOVALS OF QUALIFYING CANOPY AND PALM PLANT MATERIAL PER MIAMI-DADE COUNTY CHAPTER 24, ARTICLE IV, DIVISION 2. MITIGATION REQUIREMENTS WILL BE MET THROUGH ON-SITE PLANTING AS SHOWN ON THE PLANTING PLANS.

MITIGATION REQUIREMENTS

MIAMI-DADE COUNTY, SECTION 24-49.4
REPLACEMENT REQUIREMENTS FOR TREE REMOVAL

- (2) PROCEDURES FOR DETERMINING TREE REPLACEMENT REQUIREMENTS: THE DEPARTMENT SHALL DETERMINE THE TOTAL NUMBER OF REPLACEMENT TREES REQUIRED FOR THE ISSUANCE OF A TREE REMOVAL PERMIT ACCORDING TO THE FOLLOWING PROCEDURAL STEPS:
 - (a) STEP 1: DETERMINING EXISTING TREE CANOPY COVERAGE ON-SITE. THE AREA OF EXISTING TREE CANOPY COVERAGE OF A SITE SHALL BE DETERMINED BY THE DEPARTMENT, USING ONE (1) OR ANY COMBINATION OF THE FOLLOWING METHODS: REVIEW OF AERIAL PHOTOGRAPHY; ON-SITE INSPECTION; AND REVIEW OF A TREE SURVEY. THE DEPARTMENT MAY REQUIRE THE APPLICANT TO SUBMIT A TREE SURVEY FOR THE PURPOSE OF THIS DETERMINATION.
 - (b) STEP 2: DETERMINING IMPACT AREA OF PROPOSED PROJECT. THE AREA OF EXISTING CANOPY COVERAGE WHICH WILL BE AFFECTED (IMPACT AREA) BY THE APPLICANT'S PROPOSED DEVELOPMENT SHALL BE DETERMINED BY THE DEPARTMENT. THIS DETERMINATION SHALL BE BASED ON A SITE PLAN AND COMPLETED TREE REMOVAL PERMIT APPLICATION FORM SUBMITTED TO THE DEPARTMENT BY THE APPLICANT.
 - (c) STEP 3: DETERMINING NUMBER OF REPLACEMENT TREES REQUIRED TO BE PLANTED. THE TOTAL NUMBER OF TREES REQUIRED FOR REPLACEMENT SHALL BE BASED ON THE AREA OF IMPACT AND THE CATEGORY OF REPLACEMENT TREE SELECTED BY THE APPLICANT. EACH REPLACEMENT TREE SHALL COMPENSATE FOR A PORTION OF THE TREE CANOPY LOST IN THE IMPACT AREA. THE FOLLOWING TABLE SHALL BE USED AS A STANDARD FOR DETERMINING THE REQUIRED NUMBER OF REPLACEMENT TREES.

MATERIAL DEFINITIONS

THE INFORMATION IN THIS CODE SECTION IS USED TO DETERMINE THE MINIMUM QUALIFYING SIZES FOR PLANT MATERIAL TO BE CONSIDERED FOR MITIGATION AND LANDSCAPING.

- MIAMI-DADE COUNTY, SECTION 18A-6 (C) -
- TREE: MINIMUM OF TEN (10) FT HIGH AND MIN CALIPER OF TWO (2) INCHES AT TIME OF PLANTING.
- PALM: MINIMUM OF TEN (10) FT DIA HT OR MINIMUM CALIPER OF THREE (3) INCHES AT TIME OF PLANTING.
- SPECIMEN TREE: A TREE WITH ANY INDIVIDUAL TRUNK OR A MULTIPLE TRUNK TREE, THE SUM OF THE DIAMETER OF THE TRUNKS HAVING A DIAMETER AT BREAST HEIGHT (DBH) OF 10 INCHES OR GREATER. THIS EXCLUDES THE FOLLOWING:
 - (1) NON-NATIVE FRUIT TREES CULTIVATED OR GROWN FOR THE SPECIFIC PURPOSE OF PRODUCING EDIBLE FRUIT, INCLUDING, BUT NOT LIMITED TO: MANGOS, AVOCADOS OR SPECIES OF GUAVAS;
 - (2) NON-NATIVE SPECIES OF THE GENUS FICUS;
 - (3) ALL TREES IN THE PALM FAMILY.

REPLACEMENT PLANT MATERIAL SPECIFICATIONS

THE INFORMATION IN THIS CODE SECTION IS USED TO QUANTIFY THE REQUIRED NUMBER AND SIZE OF TREES NEEDED TO MITIGATE FOR PROPOSED REMOVALS.

- MIAMI-DADE COUNTY, SECTION 24-49.4, (7)
- MINIMUM STANDARDS FOR REPLACEMENT TREES.
- (a) ALL REPLACEMENT TREES SHALL HAVE A MINIMUM QUALITY OF A FLORIDA NO. 1 GRADE OR BETTER.
- (b) THE DEPARTMENT SHALL MAINTAIN A LIST OF SPECIES FOR EACH CATEGORY OF REPLACEMENT TREE. THIS LIST MAY BE ADDED FROM TIME TO TIME AS NECESSARY. REPLACEMENT TREE HEIGHTS SHALL BE DETERMINED BY OVERALL HEIGHT MEASURED FROM WHERE THE TREE MEETS THE GROUND TO THE TOP-MOST BRANCH.
 - 1. SHADE TREE 1: MINIMUM OF TWELVE (12) FEET IN HEIGHT AT THE TIME OF PLANTING AND AT MATURITY SHOULD HAVE A CANOPY COVERAGE OF FIVE HUNDRED (500) SQUARE FEET UNDER NORMAL GROWING CONDITIONS.
 - 2. SHADE TREE 2: MINIMUM OF EIGHTY (8) FEET IN HEIGHT AT THE TIME OF PLANTING AND AT MATURITY SHOULD HAVE A CANOPY COVERAGE OF THREE HUNDRED (300) SQUARE FEET UNDER NORMAL GROWING CONDITIONS.
 - 3. PALM TREE 1: MAXIMUM HEIGHT OF TEN (10) FEET AT THE TIME OF PLANTING AND AT MATURITY SHOULD HAVE A CANOPY COVERAGE OF THREE HUNDRED (300) SQUARE FEET UNDER NORMAL GROWING CONDITIONS.
 - 4. PALM TREE 2: MINIMUM HEIGHT OF THREE (3) FEET AT THE TIME OF PLANTING AND AT MATURITY SHOULD HAVE A CANOPY COVERAGE OF ONE HUNDRED (100) SQUARE FEET UNDER NORMAL GROWING CONDITIONS.
 - 5. SMALL TREE: MINIMUM HEIGHT OF SIX (6) FEET AT THE TIME OF PLANTING AND AT MATURITY SHOULD HAVE A CANOPY COVERAGE OF TWO HUNDRED (200) SQUARE FEET UNDER NORMAL GROWING CONDITIONS.

MITIGATION REPLACEMENT CHART

REPLACEMENT TREE CATEGORIES:	MITIGATION CREDIT (SQ FT):
SHADE TREE 1	500
SHADE TREE 2	300
PALM TREE 1	300
PALM TREE 2	100
SMALL TREE	200

TREE/PALM RELOCATION STANDARDS

MIAMI-DADE COUNTY, SECTION 24-49.6
THE RELOCATION OF ANY TREE THAT IS SUBJECT TO THE PROVISIONS OF THIS ARTICLE SHALL BE CONSISTENT WITH THE FOLLOWING MINIMUM STANDARDS:

- (1) TREES OTHER THAN PALMS:
 - (a) TREE ROOTS SHALL BE SEVERED IN SUCH A MANNER AS TO PROVIDE A ROOT BALL WHICH IS SUFFICIENT TO ENSURE SURVIVAL OF THE TREE WHEN RELOCATED. A SUFFICIENTLY-SIZED PLANTING HOLE SHALL BE PROVIDED AT THE RELOCATION SITE TO ENSURE SUCCESSFUL REGROWTH.
 - (b) AFTER ROOT SEVERING, ADEQUATE TIME SHALL BE ALLOWED PRIOR TO REPLANTING TO ENSURE SURVIVAL OF THE TREE(S). AFTER ROOT SEVERING AND PRIOR TO RELOCATION, TREE(S) SHALL BE WATERED A MINIMUM OF TWICE WEEKLY. AFTER RELOCATION, TREE(S) SHALL BE WATERED A MINIMUM OF TWICE WEEKLY UNTIL THE TREE(S) ARE ESTABLISHED.
 - (c) DURING REMOVAL AND TRANSPORTATION OF THE TREE, THE ROOT BALL AND VEGETATIVE PORTIONS OF THE TREE SHALL BE PROTECTED FROM DAMAGE FROM WIND OR INJURY.
 - (d) ANY TREE THAT DIES OR BECOMES NONVARIABLE WITHIN ONE (1) YEAR OF RELOCATION SHALL BE REPLACED ACCORDING TO THE STANDARDS SET FORTH IN SECTION 24-49.4(2).
- (2) -PALMS:
 - (a) A BALL OF EARTH AT LEAST ONE (1) FOOT FROM THE BASE OF THE TREE SHALL BE MOVED WITH THE TREE.
 - (b) FRONDS SHALL BE SECURELY TIED AROUND THE BUD PRIOR TO RELOCATION AND SHALL REMAIN SECURELY TIED AROUND THE BUD DURING THE ENTIRE RELOCATION PROCESS AND FOR A MINIMUM OF ONE (1) WEEK AFTER RELOCATION.
 - (c) THE BUD SHALL BE PROTECTED FROM DAMAGE OR INJURY DURING RELOCATION.
 - (d) ANY PALM THAT DIES OR BECOMES NONVARIABLE WITHIN ONE (1) YEAR OF RELOCATION SHALL BE REPLACED ACCORDING TO THE STANDARDS SET FORTH IN SECTION 24-49.4(2).

EXISTING TREE & PALM MITIGATION SCHEDULE

TREE NUMBER	TREE LATIN NAME	TREE COMMON NAME	QUANTITY OF TREES TO BE REMOVED	APPROX. HEIGHT (feet)	CLASSIFICATION (Shade, Palm, Small)	CANOPY SQ. FEET	MITIGATION CREDIT	REMARKS	CONSTRUCTION
1	Shade Tree 1	Shade Tree 1	1	12	Shade	500	500		
2	Shade Tree 2	Shade Tree 2	1	8	Shade	300	300		
3	Palm Tree 1	Palm Tree 1	1	10	Palm	300	300		
4	Palm Tree 2	Palm Tree 2	1	3	Palm	100	100		
5	Small Tree	Small Tree	1	6	Small	200	200		
			TOTAL TREES TO BE REMOVED:	5		1400	1400		
			TOTAL SQUARE FEET OF MITIGATION CREDIT:	1400					
			TOTAL SQUARE FEET OF MITIGATION CREDIT REQUIRED:	1400					



ARCHITECTURAL, LANDSCAPE, INTERIOR DESIGN, PLANNING, CONSTRUCTION MANAGEMENT

PROJECT AND OWNER
IRONS MANOR PARK RENOVATIONS NORTH MIAMI, FL

CONTRACT NO.

SCALE

DATE

DESIGNED BY

CHECKED BY

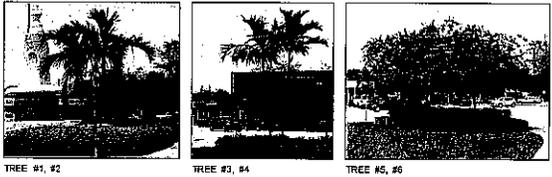
DRAWING SCALE

DATE

TREE DISPOSITION NOTES AND SCHEDULE

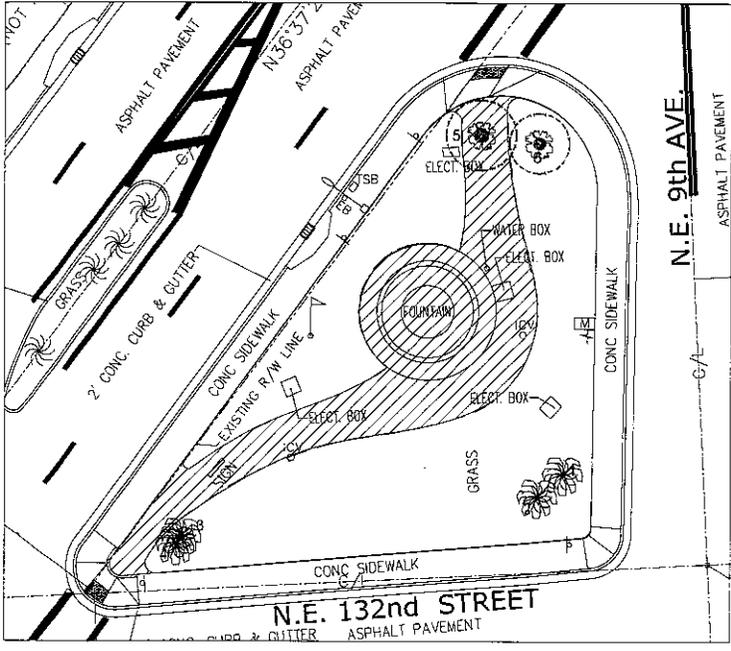
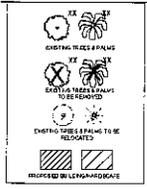
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TD100



1 EXISTING TREE IMAGES

TREE DISPOSITION LEGEND



2 TREE DISPOSITION PLAN



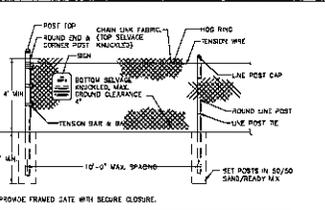
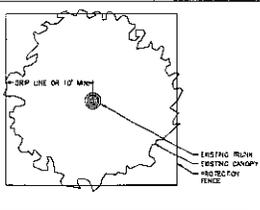
IRONIS MANDOR PARK
RENOVATIONS
NORTH MIAMI, FL

CONTRACT NO. _____
DATE _____

DESIGNED BY _____
DRAWN BY _____
CHECKED BY _____
DATE _____

DRAWING TITLE
TREE DISPOSITION PLAN

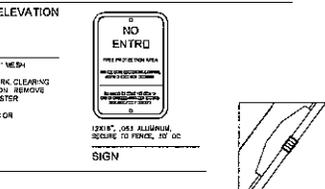
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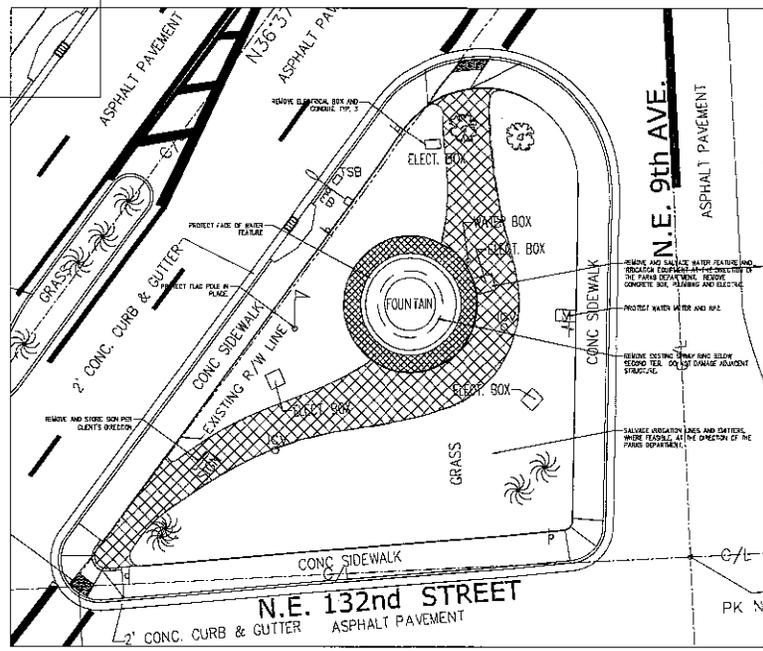
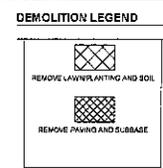
PLAN

NOTES

1. PROTECTION FENCE SHALL BE GALVANIZED CHAIN LINK STANDARD 2"x2" MESH
2. PROVIDE FRAMED GATE
3. TREE PROTECTION FENCE SHALL BE INSTALLED PRIOR TO AND SITE WORK, CLEARING OR DEMOLITION AND MAINTAINED FOR THE DURATION OF CONSTRUCTION. REMOVE ONLY AFTER RECEIVING WRITTEN PERMISSION FROM THE UTILITY FORESTER
4. POSTS SHALL BE GAFFED TO AVOID ROOTS
5. NO CONSTRUCTION ACTIVITIES, STORAGE, DEBRIS, VEHICULAR TRAFFIC OR EQUIPMENT CLEARING IS ALLOWED WITHIN THE PROTECTED AREA
6. REFER TO MUNICIPAL REQUIREMENTS FOR ADDITIONAL INFORMATION



- DEMOLITION NOTES**
1. REFER TO 'D' SERIES FOR TREE REMOVALS. REFER TO 'C' SERIES FOR WORK IN THE RIGHT OF WAY. REFER TO 'C' SERIES FOR PROPOSED GRADES AND SPOT ELEVATIONS.
 2. PROTECT EXISTING WATER FEATURE DURING ALL STAGES OF WORK. PROTECT EXISTING WATER METER AND RPZ. DO NOT DAMAGE EXISTING PLUMBING TO REMAIN.
 3. PROVIDE TEMPORARY CONTROLS FOR DIXIE HIGHWAY MEDIAN IRRIGATION DURING CONSTRUCTION. COORDINATE PRIOR TO BEGINNING DEMOLITION WITH THE CLIENT AND PARKS DEPARTMENT.
 4. INSTALL AND MAINTAIN SITE PROTECTION FENCING FOR THE DURATION OF CONSTRUCTION.
 5. PREVENT MIGRATION OF CONSTRUCTION DEBRIS INTO THE ROW FOR THE DURATION OF CONSTRUCTION. UTILIZE BEARS APPROVED BY CLIENT.
 6. REFER TO MUNICIPAL REQUIREMENTS FOR ADDITIONAL INFORMATION.



MAK work

ARCHITECT, LANDSCAPE ARCHITECTS
1000 WEST MIAMI AVE
MIAMI, FL 33135

PROJECT AND OWNER

IRONS MANOR PARK
RENOVATIONS
NORTH MIAMI, FL

CONTRACT NO.

DATE

SCALE

1" = 10'

DATE

DESIGNED BY

DRAWN BY

CHECKED BY

DATE

PROJECT NO.

170

DEMOLITION PLAN

170

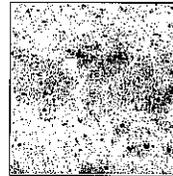
D100

MATERIALS NOTES

1. CONTRACTOR TO VERIFY ALL QUANTITIES. IN CASE OF ANY DISCREPANCIES, GRAPHICALLY SHOWN MATERIAL QUANTITIES SHALL TAKE PRECEDENCE.
2. ALL CONSTRUCTION AND MATERIALS NOT SPECIFICALLY ADDRESSED IN THE CONTRACT DOCUMENTS OR SPECIFICATIONS SHALL BE IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL JURISDICTIONS AND GOVERNING BODIES/AGENCIES STANDARDS.
3. THE CONTRACTOR SHALL PROVIDE A FULL-SCALE MOCKUP AND RECEIVE APPROVAL FROM THE LANDSCAPE ARCHITECT FOR ALL SYSTEMS BEFORE BEGINNING CONSTRUCTION OF PAVEMENT.
4. EXPANSION JOINTS SHALL BE PROVIDED WHERE FLATWORK MEETS VERTICAL STRUCTURES, SUCH AS WALLS, CURBS, STEPS, AND OTHER Hardscape ELEMENTS. EXPANSION JOINTS SHALL ALSO BE PROVIDED AT MATERIAL CHANGES. EXPANSION JOINT MATERIALS/METHODS SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
5. CONTROL JOINTS SHOULD BE SPACED NO GREATER THAN TEN (10) LINEAR FEET MAXIMUM, UNLESS OTHERWISE SPECIFIED. EXPANSION JOINTS SHOULD BE SPACED NO GREATER THAN FORTY (40) LINEAR FEET MAXIMUM, UNLESS OTHERWISE SPECIFIED. CONTRACTOR SHALL ADVISE ON OTHER JOINTS AS NEEDED TO MINIMIZE CRACKING. THIS INFORMATION SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
6. CONTROL JOINTS SHALL BE PROVIDED AS SPECIFIED IN THE CONTRACT DOCUMENTS. CONTROL JOINT MATERIALS, METHODS AND RECOMMENDATIONS ON ADDITIONAL CONTROL JOINTS TO MINIMIZE CRACKING SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL.
7. ALL STEPS SHALL HAVE TWELVE (12) INCH TREADS AND SIX (6) INCH RISERS, UNLESS OTHERWISE SPECIFIED.
8. HOLD TOP OF WALLS AND FENCES LEVEL, UNLESS OTHERWISE SPECIFIED.
9. CONTRACTOR SHALL NOT INSTALL WORK LOCATED ON TOP OF ARCHITECTURAL STRUCTURES WITHOUT FIRST REVIEW AND ARCHITECTURAL DRAWINGS.
10. SAMPLES OF SPECIFIED MATERIALS SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO ORDERING FOR JOB.

LAYOUT & GRADING NOTES

1. REFER TO CIVIL DRAWINGS FOR LAYOUT AND GRADING INFORMATION.



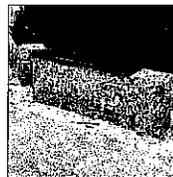
PAVING I- CONCRETE

MATERIAL: CAST-IN-PLACE CONCRETE
 COLOR: STANDARD GRAY
 FINISH: ROCK SALT FINISH, TOWEL FINISH
 LOCATION: WALKWAYS



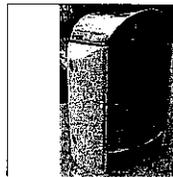
PAVING II- KEYSTONE COBBLES

MATERIAL: FLORIDA KEY STONE OR CORALINA
 COLOR: NATURAL
 FINISH: SMOOTH W/ HATCHET FACE
 LOCATION: BAYN APRON



BENCH

MATERIAL: OOLITE STONE AND TREX
 COLOR: VARIES
 FINISH: SEE DETAILS
 LOCATION: WALKWAY



TRASH RECEPTACLE

MATERIAL: CREATIVE PIPE - BRAHMA
 COLOR: MATCH CITY STD
 FINISH: MATCH CITY STD
 LOCATION: WALKWAY
 MODEL # BH7-PS-56-75-55-AD-30



INFORMATION KIOSK

MATERIAL: STAINLESS STEEL AND OOLITE
 COLOR: STAINLESS STEEL
 FINISH: SEE DETAILS
 LOCATION: N/A



HORTICULTURAL SIGNAGE

MATERIAL: ALUMINUM 4MM
 COLOR: MATTE BLACK
 FINISH: 4.75" X 3.5"
 LOCATION: NATIVE GARDEN
 PLANTS/MAP COM
 PLANTS MAP
 TAGS INCLUDE QR CODE FOR LINKS

TO CITY CONTROLLED HORTICULTURAL DATABASE - QUANTITY (20)



IRONWOOD PARK RENOVATIONS NORTH MIAMI, FL

CONTRACT NO. _____
 PROJECT NO. _____
 DATE: _____

DESIGNED BY: _____
 CHECKED BY: _____
 DATE: _____

SCALE: _____
 SHEET NO. _____

DATE: _____
 L-200



ARCHITECT, LANDSCAPE ARCHITECT
PLANNING, PHOTOGRAPHY AND
VIDEO



**IRONDALE MANOR PARK
RENOVATIONS
NORTH MIAMI, FL**

CONSULTANTS

DATE

APPROVED BY

DRAWN BY

CHECKED BY

DATE

SCALE

SYMBOLS

DATE

PROJECT NAME

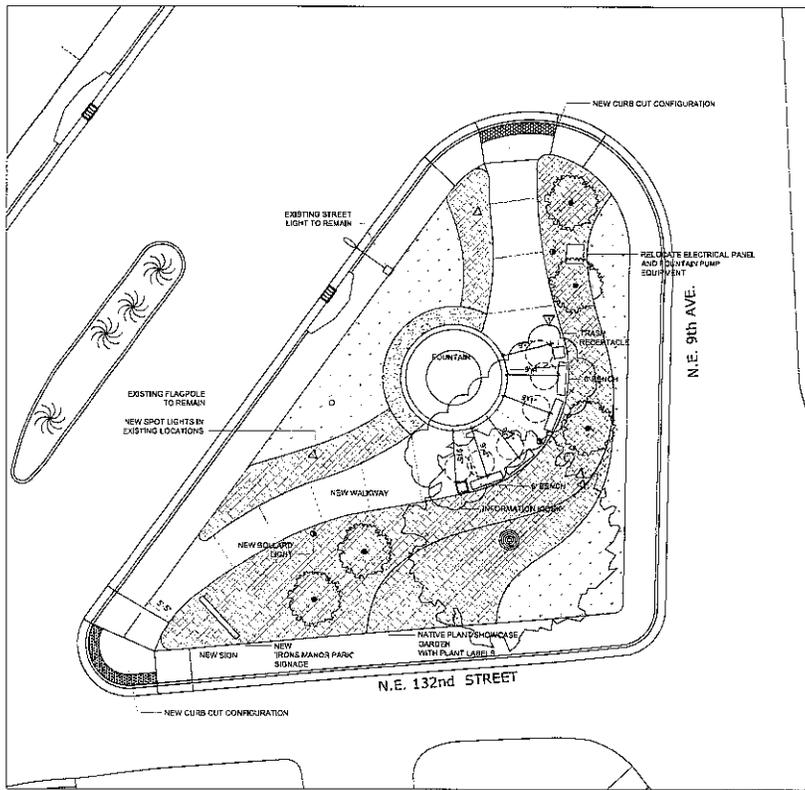
MATERIALS PLAN

PROJECT NUMBER

L-201

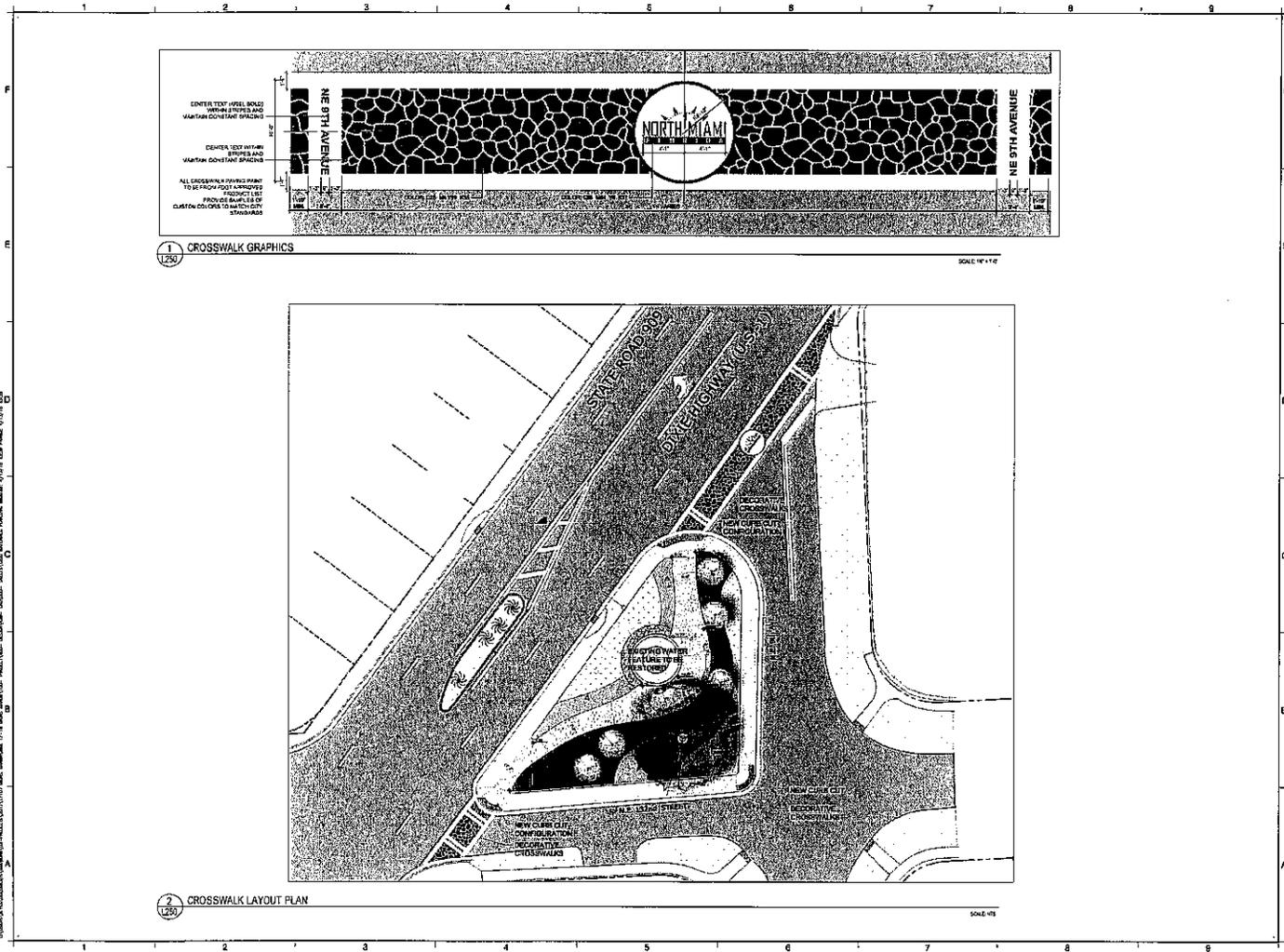
LEGEND

- PAVING TYPE I
- PAVING TYPE II
- LAWN
- PLANTING
- TREE
- SPOT LIGHT
- SOLLARD LIGHT
- INFORMATION
- TRASH RECEPTACLE
- 5' DIAM ADA TURNING CIRCLE



1 MATERIALS PLAN

SCALE: 1/4" = 1'-0"



IRON'S MANOR PARK RENOVATIONS
NORTH MIAMI, FL

CONTRACT NO.
T. P. N.

SCALE

DATE 06/15/21

DRAWING NO.

DRAWING TITLE

CROSSWALKS GRAPHICS

DRAWING NUMBER

L-250

PLANTING NOTES

- PLANT MATERIAL IS TO BE HEALTHY SPECIMENS FREE FROM DISEASE OR DAMAGE, AND IS TO BE MAINTAINED IN EXCELLENT CONDITION WHILE ON THE JOB SITE. LANDSCAPE ARCHITECT SHALL INSPECT PLANT MATERIAL UPON ARRIVAL TO JOB SITE AND WILL REJECT PLANT MATERIAL THAT DOES NOT MEET THE STANDARDS DESCRIBED WITHIN THE CONTRACT DOCUMENTS.
- THE LANDSCAPE ARCHITECT WILL PERIODICALLY INSPECT PLANT MATERIAL SPECIFIED AND/OR PLANTED ON SITE DURING THE COURSE OF CONSTRUCTION. PLANT MATERIAL NOT MEETING THE STANDARDS CONTAINED WITHIN CONTRACT DOCUMENTS SHALL BE REJECTED AT THE CONTRACTOR'S EXPENSE.
- PROVIDE WATCHING SIDES AND FORMS FOR EACH PLANT OF THE SAME SPECIES UNLESS OTHERWISE INDICATED.
- CONTRACTOR TO VERIFY ALL QUANTITIES, IN CASE OF DISCREPANCIES, GRAPHICALLY SHOWN QUANTITIES SHALL TAKE PRECEDENCE.
- ALL MATERIALS USED SHALL CONFORM TO THE GUIDELINES ESTABLISHED BY THE CURRENT AMERICAN STANDARDS FOR NURSERY STOCK, PUBLISHED BY THE AMERICAN ASSOCIATION OF NURSERMEN.
- ALL PLANT MATERIAL SHALL BE INSTALLED PLUMB AND PER THE SPECIFICATIONS CONTAINED WITHIN THE CONTRACT DOCUMENTS. AND NECESSARY STAKES AND/OR OTHER SUPPORT MATERIALS/METHODS SHALL BE SUBMITTED TO THE LANDSCAPE ARCHITECT FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- THE CONTRACTOR SHALL MAINTAIN EXISTING AND/OR NEW TREES AND PER LANDSCAPE ARCHITECT DIRECTION.
- THE CONTRACTOR SHALL STAKE THE LOCATIONS OF ALL TREES AND SHRUBS FOR LANDSCAPE ARCHITECT REVIEW AND APPROVAL PRIOR TO INSTALLATION.
- ALL ROOT-BARBERS MATERIALS THAT ARE NOT DISCREPANCIAL SHALL BE REMOVED FROM THE ROOT BALL. ROOT BALLS SHALL BE FREE OF WEEDS.
- SPECIFIED PLANT MATERIAL SIZES SHALL BE CONSIDERED MINIMUM SIZES.
- FINISH GRADE OF PLANTING BEDS SHALL BE ONE (1) INCH BELOW ADJACENT PLANTWORK, UNLESS SPECIFIED OTHERWISE.
- MULCH OR PLANTING BED DRESSING SHALL BE PLACED IN ALL PLANTING AREAS AS SPECIFIED. MULCH OR PLANTING BED DRESSING SHALL NOT BE PLACED WITHIN SIX (6) INCHES OF TREE TRUNKS. MULCHING SHOULD BE REPEATED ANNUALLY DURING THE AUTUMN TO A THREE (3) INCH DEPTH.
- ALL PLANT MATERIAL SHOULD RECEIVE AN ORGANIC FERTILIZER IN LIMITED APPLICATION FOLLOWING INSTALLATION. TYPE AND APPLICATION RATE AND METHOD OF APPLICATION TO BE SPECIFIED BY THE CONTRACTOR AND APPROVED BY THE LANDSCAPE ARCHITECT.
- EXCESS FERTILIZER SHALL BE DISPOSED OF PROPERLY OFF-SITE. IT SHALL NOT BE DISPOSED OF IN STORM DRAINS AND/OR DRAINWELLS.
- STOCKPILED PLANT MATERIAL TO BE PLACED IN THE SHADE AND PROPERLY HAND-WATERED UNTIL PLANTED.
- CONTRACTOR TO SUPPLY REPRESENTATIVE IMAGES OF ALL PLANT MATERIAL NUMBERED VISITS FOR CANOPY AND PALM TAGGING AND BE REVIEWED AT THE DISCRETION OF CLIENT AND LANDSCAPE ARCHITECT.
- RESERVE & PROTECT ALL EXISTING VEGETATION INDICATED TO REMAIN AT ALL TIMES.
- SIX (6) INCH PLANT MIX SHALL BE PROVIDED FOR ALL LAWN, TURF, AND NATIVE PLANTING ZONES. 18 INCH PLANT MIX SHALL BE PROVIDED FOR ALL PERENNIAL PLANTING BEDS UNLESS OTHERWISE NOTED.
- LANDSCAPE CONTRACTOR TO PAINT ALL TREE & PALM SUPPORTS WITH LAMSWAIN WOOD PRESERVATIVE. SEMI-SOLID PLANT STAKES COLOR: ASHLAND S-474-866.
- MAINTENANCE PROTOCOL DURING THE GUARANTEE PERIOD TO FOLLOW GUIDELINES AS LISTED IN MIAMI 24 ARTICLES 9.12. INCLUDE WEEKLY WATERING (MANUAL OR IRRIGATION SYSTEM IF NOT PRESENT), QUARTERLY FERTILIZATION (MANUAL OR APPROPRIATE FOR MATERIAL), DEFER TO IFAS PLUS EXHIBIT FOR ADDITIONAL INFORMATION AND MONTHLY REVIEW OF ALL STAKING AND GUARDING TO ENSURE MATERIAL REMAINS TRUE TO PLUMB AND MONTHLY WASTE TRASH REMOVAL. GUARANTEE PERIOD TO BE ONE YEAR FROM DATE OF SUBSTANTIAL COMPLETION.

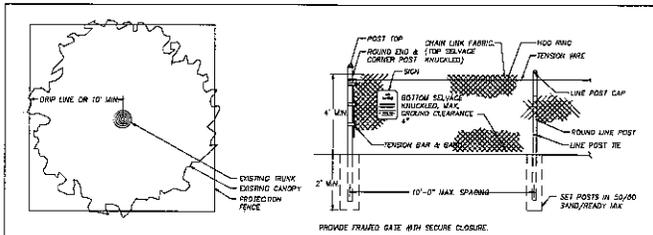
PLANTING SCHEDULE

ABBREVIATION	BOTANICAL NAME	COMMON NAME	SPECIFICATIONS	
CANOPY TREES				
QO	1	QUERCUS VIRGINIANA	LIVE OAK	SPECIMEN, 14" DBH, 24' GA HEIGHT, W/SHRUB
UNDERSTORY TREES				
UD	1	EUGENIA CONFUSA	REDBERRY STOPPER	1.5" DBH, 10' GA HEIGHT - MINIMUM LOW BRANCHED OR MULTI-TRUNK ***
US	3	LYNCHES FRAGRANS	SWAMPY STOPPER	1.5" DBH, 10' GA HEIGHT - MINIMUM LOW BRANCHED OR MULTI-TRUNK **
SHRUBS - ACCENTS				
EA	17	BURNING BUSH	LADY OF THE NIGHT	5 GAL FULL
CA	3	CALICARPA AMERICANA	REALITY BERRY	7 GAL FULL
HP	14	HAMELIA PATENS COMPACTA	DWARF FIREBUSH	7 GAL FULL
SK	7	SPICE COLLEUM TEXENSE	BLACKBERRY	15 GAL FULL
PN	88	PSYCHOTRIA NERVOSA	WILD COFFEE	7 GAL FULL
ZP	5	ZAMIA PUMILA	COONITE	7 GAL
GROUND COVER				
CS	150 SF	CYREOPSIS SPECIES	RICKSEED	1 SEED BROADCAST
CF	7	CALLIPALMA PULCHELLA	BLANKET FLOWER	1 GAL FULL, 18" D.C.
TD	150	HELIANTHUS DEBILIS	BEACH SUNFLOWER	1 GAL FULL, 18" D.C.
ZA	80	TRACHELOPERNUM ASIATICUM	CREeping JASMINE	1 GAL FULL, 18" D.C.
LAWN				
SS	11,140 SF	STENOTAPHRUM SECUNDATUM	ST. AUGUSTINE PALMETTO	1 SD

SCHEDULE NOTES

- INDICATES TREE PALM COUNTED TOWARD ON SITE MITIGATION
- INDICATES TREE PALM COUNTED TOWARD ON SITE LANDSCAPE REQUIREMENTS
- INDICATES TREE PALM COUNTED TOWARD STREET TREE REQUIREMENTS
- INDICATES SHOWCASE GARDEN PLANT

LANDSCAPE LEGEND



PLAN

ELEVATION

NOTES

- PROTECTION FENCE SHALL BE GALVANIZED CHAIN LINK STANDARD 2X2 MESH.
- PROVIDE HINGED GATE.
- PROTECTION FENCE SHALL BE INSTALLED PRIOR TO ANY SITE WORK, CLEARING OR DEMOLITION AND MAINTAINED FOR THE DURATION OF CONSTRUCTION. REMOVE ONLY AFTER RECEIVING WRITTEN PERMISSION FROM THE URBAN FORESTER.
- POSTS MUST BE SET TO AVOID ROOTS.
- NO CONSTRUCTION ACTIVITIES, STORAGE, DEBRIS, VEHICULAR TRAFFIC OR EQUIPMENT CLEARING IS ALLOWED WITHIN THE PROTECTED AREA.
- REFER TO MUNICIPAL REQUIREMENTS FOR ADDITIONAL INFORMATION.

TREE PROTECTION DETAIL
SCALE: NOT TO SCALE



12\"/>

MAK
work

IRON MANOR PARK RENOVATIONS
NORTH MIAMI, FL

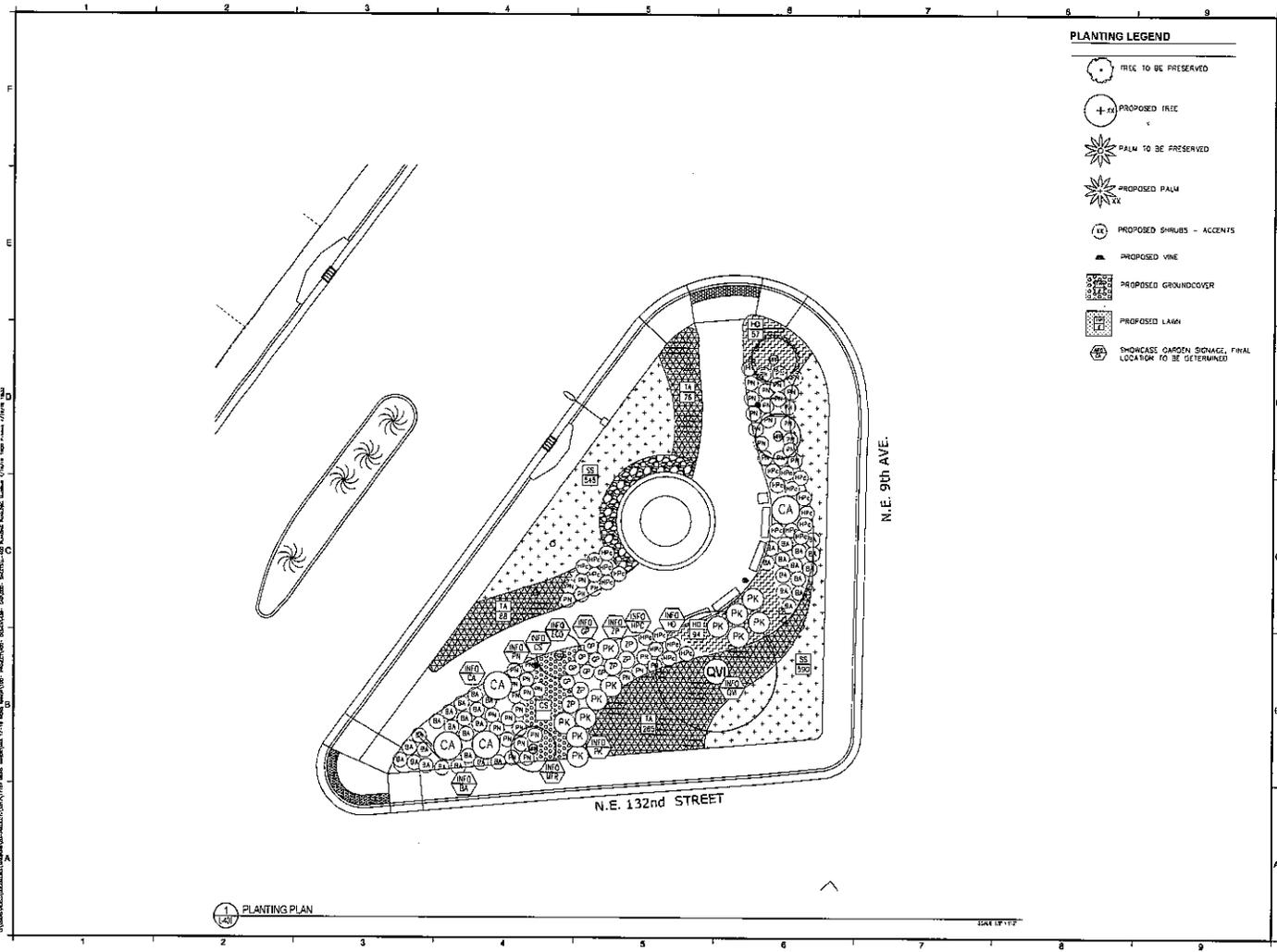
PROJECT NO. 2024-001

DATE: 04/20/24

SCALE: AS SHOWN

PLANTING SCHEDULE & NOTES

L-400



- PLANTING LEGEND**
- TREE TO BE PRESERVED
 - PROPOSED TREE
 - PALM TO BE PRESERVED
 - PROPOSED PALM
 - PROPOSED SHRUBS - ACCENTS
 - PROPOSED VINE
 - PROPOSED GROUNDCOVER
 - PROPOSED LAWN
 - SHOWCASE GARDEN SIGNAGE, FINAL LOCATION TO BE DETERMINED

1 PLANTING PLAN
L-401

SCALE 1/8" = 1'-0"

MAK
work

ARCHITECT, LANDSCAPE ARCHITECTURE
CONSULTING AND PLANNING
CORPORATION

**IRON'S MANOR PARK
RENOVATIONS
NORTH MIAMI, FL**

CONTRACT NO.

PROJECT NO.

DESIGNED BY

CHECKED BY

DATE

SCALE FOR

DRAWING SCALE

DATE

CANOPY &
UNDERSTORY
PLANTING PLAN

DRAWING NUMBER

L-401

VISTA PROFESSIONAL

SPECIFICATION SHEET

MODEL 1063 Architectural Series - Up & Accent

GENERAL SPECIFICATIONS:

Finish: Polished chrome with clear powder coat finish. The finish shall be durable and resistant to corrosion. The finish shall be applied in a uniform and consistent manner. The finish shall be applied in a uniform and consistent manner. The finish shall be applied in a uniform and consistent manner.

Dimensions: 1063 (H) x 1063 (W) x 1063 (D). The dimensions shall be as shown on the drawing. The dimensions shall be as shown on the drawing. The dimensions shall be as shown on the drawing.

Weight: 1063 lbs. The weight shall be as shown on the drawing. The weight shall be as shown on the drawing. The weight shall be as shown on the drawing.

Material: 1063 (Material). The material shall be as shown on the drawing. The material shall be as shown on the drawing. The material shall be as shown on the drawing.

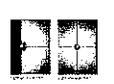
Manufacturer: 1063 (Manufacturer). The manufacturer shall be as shown on the drawing. The manufacturer shall be as shown on the drawing. The manufacturer shall be as shown on the drawing.

Warranty: 1063 (Warranty). The warranty shall be as shown on the drawing. The warranty shall be as shown on the drawing. The warranty shall be as shown on the drawing.

Notes: 1063 (Notes). The notes shall be as shown on the drawing. The notes shall be as shown on the drawing. The notes shall be as shown on the drawing.

Drawings: 1063 (Drawings). The drawings shall be as shown on the drawing. The drawings shall be as shown on the drawing. The drawings shall be as shown on the drawing.

ACCENT LIGHT-VISTA 1063



BOLLARD LIGHT-BEGA C14-77-787



LANDSCAPE LIGHTING PLAN

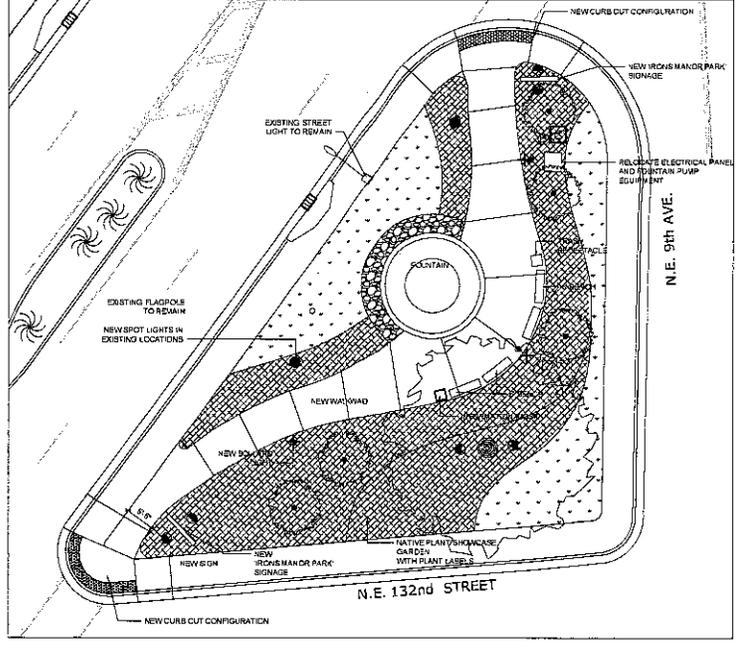
Scale: 1/8" = 1'-0"

LAYOUT & GRADING NOTES

- PRIMARY CONTROLLERS AND GENERAL FIXTURE LOCATIONS SHOWN ONLY. CONTRACTOR TO SUBMIT SHOP DRAWINGS FOR COMPLETE SYSTEM DESIGN FOR APPROVAL BY LANDSCAPE ARCHITECT PRIOR TO INSTALLATION.
- CONTRACTOR TO PROVIDE CODE COMPLIANT SYSTEM DESIGN INCLUDING FOOT CANDLE COVERAGE AND SEA-TURBLE REQUIREMENTS FOR ENTIRE SITE.
- COORDINATE LANDSCAPE LIGHTING WITH INTERIOR AND EXTERIOR ARCHITECTURAL LIGHTING. ENSURE COMPATIBILITY WITH ARCHITECTURAL LIGHTING SYSTEM CONTROLLERS.
- PROVIDE NEW RATED EQUIPMENT AND ENCLOSURES FOR SYSTEM CONTROLLERS EXPOSED TO THE ELEMENTS. SUBMIT PROPOSED MOUNTING SYSTEMS, ENCLOSURES AND LOCATIONS AS PART OF THE SUBMISSION PROCESS.

SITE LIGHTING LEGEND

- LIGHTING CONTROLLER AND LIGHT SENSOR
- TRANSFORMER
- UPLIGHT TYPE 1
- UPLIGHT TYPE 2
- WELL LIGHT TYPE 1
- DOWN LIGHT
- PATH LIGHT/BOLLARD
- STEP LIGHT



MAK work

PROFESSIONAL LANDSCAPE ARCHITECTURE
1000 N.W. 10th St., Suite 1000
Fort Lauderdale, FL 33304
Tel: 954.575.1111

PROJECT AND OWNER

IRONS MANOR PARK RENOVATIONS
NORTH MIAMI, FL

CONSULTANTS

DATE: 11/15/2011

SCALE: 1/8" = 1'-0"

PROJECTING

PROJECTED BY: [Signature]

DESIGNED BY: [Signature]

CHECKED BY: [Signature]

DATE: 11/15/2011

GROUND SCALE

1/8" = 1'-0"

TITLING TITLE

LANDSCAPE LIGHTING PLAN

GROUND NUMBER

L-800

PLUMBING NOTES

1. IT IS THE INSTALLING CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL FIELD DIMENSIONS CRITICAL TO FOUNTAIN EQUIPMENT INSTALLATION AND PERFORMANCE AND REPORT ANY DISCREPANCIES, IN WRITING TO DELTA FOUNTAINS. REFER TO SPECIFICATION SECTION 31 "EXAMINATION" FOR FURTHER INSTRUCTION AND CLARIFICATION.
2. IT IS THE RESPONSIBILITY OF THE INSTALLING CONTRACTOR TO CHECK AND COMPLY WITH ALL APPLICABLE NATIONAL AND LOCAL PLUMBING CODES PRIOR TO INSTALLATION OF EQUIPMENT.
3. ALL POOL PIPING PENETRATIONS THROUGH ANY CONCRETE WALL OR FLOOR MUST BE MADE WITH STAINLESS STEEL PIPE APPROPRIATE FOR THE APPLICATION, AND MUST BE FLANGED OR FITTED WITH A WATERSTOP FLANGE TO PREVENT LEAKAGE. FOR PIPE PENETRATIONS OVER 4" PIPE SIZE USE BACK TO BACK P.V.C. FLANGES WITH STAINLESS STEEL BOLTS AND HARDWARE FOR WATERSTOP.
4. INTERCONNECTING PIPING BETWEEN THE FEATURE AND EQUIPMENT VAULT/ROOM IS SCHEDULE 40 P.V.C. UNLESS OTHERWISE NOTED. REFER TO PROJECT SPECIFICATIONS FOR EXCEPTIONS.
5. ALL P.V.C. CONNECTIONS BETWEEN DISSIMILAR METALS MUST BE MADE WITH DIELECTRIC FITTINGS.
6. SUCTION EYE OF PUMP MUST BE LOCATED BELOW POOL FLOOR ELEVATION IN FLOODED-END SUCTION TYPE, AND NOT MORE THAN 6" ABOVE POOL FLOOR ELEVATION IF SELF-PRIMING TYPE.
7. SUCTION LINE MUST BE A STRAIGHT RUN INTO THE PUMP EYE OF AT LEAST 8" PIPE DIAMETERS WITH NO LOOPS, HIGH POINTS, OR TRAPS.
8. USE LONG RADUS BENDS ON ALL DIRECTIONAL CHANGES ON SUCTION AND DISCHARGE LINES. IN SOME INSTANCES, PIPING DIAGRAMS ARE EXAGGERATED FOR PURPOSES OF CLARITY. MAKE ALL SUCTION AND DISCHARGE PIPE RUNS USING THE MOST DIRECT ROUTES POSSIBLE AND USING THE MINIMUM NUMBER OF FITTINGS POSSIBLE.
9. ON SUCTION LINES USE LUG TYPE BUTTERFLY VALVES. DO NOT REGULATE OR ADJUST FLOW FROM SUCTION SIDE OF PUMP.
10. ON DISCHARGE LINES USE LUG TYPE BUTTERFLY VALVES OR FULL-FLOW TRUE-UNION GATE VALVES.
11. INSTALLING CONTRACTOR TO INSTALL THRUST BLOCKS AT ALL PIPING INTERSECTIONS ON SUBTERRANEAN PIPING RUNS.
12. INSTALLING CONTRACTOR IS RESPONSIBLE FOR ALL PIPE SUPPORTS AND HANGERS AS REQUIRED. ALL PIPING IN OPEN AREAS BELOW THE POOLS SHALL BE INSTALLED FREEHANGING FROM THE CEILING IN THE LEVEL BELOW WITH PIPE HANGERS PER LOCAL CODE AND SPECIFICATIONS.
13. SOIL COMPACTION AROUND SUBTERRANEAN PIPING TO BE COMPLETED IN 8' LIFTS.
14. ALL PIPING TO HAVE MIN. 2% SLOPE DOWN FROM FOUNTAIN TO EQUIPMENT VAULT/EQUIPMENT ROOM UNLESS OTHERWISE SPECIFIED ON THE CONTRACT DOCUMENTS.
15. PRESSURE TESTING ON ALL PIPE RUNS BETWEEN THE PUMP/IND EQUIPMENT AND THE FOUNTAIN BASIN SHALL BE PERFORMED BY THE INSTALLING CONTRACTOR AFTER "ROUGH-IN" (PIPES INSTALLED AND STUBBED UP) ARE COMPLETE AND AGAIN BEFORE ANY CONCRETE IS POURED. IT IS RECOMMENDED TO MAINTAIN ALL PIPING UNDER PRESSURE DURING THE CONSTRUCTION PHASE TO DETECT ANY DAMAGE EARLY ON. ALL TESTS SHALL USE WATER, NOT AIR FOR PRESSURE TESTING.
16. ALL PENETRATIONS THROUGH OUTSIDE WALLS TO BELOW GRADE SHALL BE SEALED PER BUILDING SPECIFICATIONS. USING "EASY-LINK SEAL" IS RECOMMENDED.
17. ALL PIPING PENETRATIONS THROUGH STRUCTURE WALLS INTO OPEN AREAS BELOW POOL STRUCTURE MUST HAVE ALLOWANCES MADE FOR SETTLEMENT.

ELECTRICAL NOTES

1. THE INSTALLATION OF ELECTRICAL EQUIPMENT AND WIRING IN WATER CAN PRODUCE EXTREME HAZARDS. IT IS THE RESPONSIBILITY OF THE INSTALLING ELECTRICAL CONTRACTOR TO CONSULT & COMPLY WITH THE LATEST EDITION OF THE NATIONAL ELECTRIC CODE (NEC) PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION, QUINCY, MASSACHUSETTS. IN THE EVENT OF CONFLICTING REQUIREMENTS BETWEEN CONTRACT DOCUMENTS AND ANY LOCAL ELECTRIC CODE OR OTHER GOVERNING ORGANIZATIONS FOR THIS LOCATION, THE MOST STRINGENT SHALL GOVERN AND TAKE PRECEDENCE. IN THIS EVENT, THE ARCHITECT SHALL BE NOTIFIED IMMEDIATELY IN WRITING OF SUCH CONFLICT.
2. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL FIELD DIMENSIONS CRITICAL TO FOUNTAIN EQUIPMENT INSTALLATION AND PERFORMANCE AND REPORT ANY DISCREPANCIES, IN WRITING, TO DELTA FOUNTAINS.
3. IT IS THE ELECTRICAL CONTRACTOR'S RESPONSIBILITY TO INSURE THAT ALL ELECTRICAL EQUIPMENT IS INSTALLED AND USED BY A QUALIFIED LICENSED ELECTRICIAN IN ACCORDANCE WITH ALL PROVISIONS OF NEC ARTICLE 680, AND LOCAL SAFETY CODES AND REGULATIONS.
4. SUBMERSIBLE LIGHTING FIXTURES MUST BE INSTALLED WITH THE TOP OF THE FIXTURE LENS BELOW THE NORMAL WATER LEVEL AND MUST HAVE THE LENS ADEQUATELY GUARDED TO PREVENT CONTACT BY ANY PERSON.
5. MAXIMUM LENGTH OF EXPOSED CORD IN FOUNTAIN IS LIMITED TO 10'. NO ADDITIONAL CORD OR SPLICES OTHER THAN THOSE MADE IN A WATERPROOF JUNCTION BOX, ARE TO BE MADE IN THE POOL.
6. UNDERWATER JUNCTION BOXES MUST BE FILLED WITH AN APPROVED POULING COMPOUND PRIOR TO FILLING POOL, AND AFTER ALL CIRCUITS HAVE BEEN CHECKED TO PREVENT THE ENTRY OF MISTURE, AND IS FIRMLY ATTACHED TO SUPPORTS OR DIRECTLY TO THE FOUNTAIN SURFACE AND BONDED AS REQUIRED. ALL CONDUIT STUBBED UP THROUGH THE POOL FLOOR MUST BE STAINLESS STEEL.
7. ALL ELECTRICAL EQUIPMENT MUST BE PROPERLY BONDED AND GROUNDING.
8. FULL CORRECT QUANTITY AND SIZE WIRES WITH SEPARATE GROUND THROUGH CONDUIT INTO JUNCTION BOX. MAKE ALL SPLICES AND CONNECTIONS TIGHT AND WELL INSULATED. CORRECT GROUND WIRE TO GROUND LUG IN JUNCTION BOX. ALL WIRING AND CONDUIT SHALL BE SIZED BY THE ELECTRICAL CONTRACTOR IN ACCORDANCE WITH THE LATEST EDITION OF THE NEC AND ALL ELECTRICAL CODES AND REGULATIONS. WHERE WIRE CONDUIT SIZES ARE SPECIFIED ON THE DRAWINGS, THEY SHALL BE INTERPRETED AS MINIMUM ALLOWABLE SIZES. ALL CONDUCTORS SHALL BE COPPER WITH INSULATION SUITABLE FOR THE PARTICULAR WIRING LOCATION. MINIMUM ACCEPTABLE INSULATION TYPE IS THIN OR BETTER, SUITABLE FOR BOTH DRY AND WET LOCATIONS. CONDUCTOR INSULATION SHALL BE HUMIDITY RESISTANT, FLAME RETARDANT, TEMPERATURE AS APPROVED BY THE NEC. CONDUCTOR SIZING SHALL BE BASED ON AN AMBIENT TEMPERATURE OF 30 DEGREES CELSIUS AND A CONDUCTOR TEMPERATURE RANGE OF 75 DEGREES CELSIUS MAX. PER ARTICLE 310 OF THE NEC. ALL UNDERWATER ELECTRICAL CABLE SHALL EITHER BE ENCASED IN WATERPROOF SEALED P.V.C. CONDUIT OR SHALL BE RATED FOR CONTINUOUS OPERATION IN UNDERWATER, MARINE ENVIRONMENTS.
9. INSERT EACH SUBMERSIBLE CORD THROUGH THE BRASS O-RING SEALS PROVIDED ON THE JUNCTION BOX AND TIGHTEN COMPLETELY.
10. DO NOT OPERATE LIGHTS OR PUMPS MORE THAN 30 SECONDS UNLESS COMPLETELY SUBMERGED OR DAMAGE WILL RESULT AND WARRANTIES WILL BE VOIDED.
11. ALL CONDUCTORS FOR FEEDERS WHICH EXCEED 200 FEET IN LENGTH SHALL BE INCREASED 1 TRADE SIZE AND INCREASED AN ADDITIONAL 1 TRADE SIZE FOR EACH ADDITIONAL 100 FEET OF FEEDER CABLE LENGTH.
12. THE INFORMATION SUPPLIED IN THESE DRAWINGS SPECIFIES THE GENERAL REQUIREMENTS OF A COMPLETE FUNCTIONING ELECTRICAL POWER DISTRIBUTION AND CONTROL SYSTEM. THE ELECTRICAL SUBCONTRACTOR SHALL COORDINATE ALL ELECTRICAL INSTALLATION ACTIVITIES WITH THE CONSTRUCTION MANAGER, GENERAL CONTRACTOR, ARCHITECT AND (WITH RESPECT TO WORK PHASE) OTHER SEPARATE CONTRACTORS PERFORMING WORK RELATED TO THE FOUNTAIN INSTALLATION.
13. ALL CONDUCTORS SHALL BE RUN IN RIGID CONDUIT SIZED FOR THE NUMBER OF WIRES CONTAINED WITHIN PER NEC REQUIREMENTS. RIGID CONDUIT SHALL BE CORROSION RESISTANT AND EITHER GALVANIZED STEEL OR RIGID P.V.C. WHEN CONDUIT IS SUBMERGED OR IN OTHER WET LOCATIONS, RIGID P.V.C. SHALL BE REQUIRED. CONDUCTOR SIZING SHALL BE CORRECTED FOR THE NUMBER OF WIRES TO BE RUN IN A SINGLE CONDUIT OR RACEWAY IN ACCORDANCE WITH THE NEC. ALL CONDUIT LOCATIONS AND ROUTING SHALL BE APPROVED BY THE ARCHITECT BEFORE INSTALLATION.
14. THE WORK TO COMPLETE THE INSTALLATION OF THE FOUNTAIN INCLUDES SUCH NECESSARY MATERIAL AND DEVICES OF A MINOR NATURE THAT MAY NOT BE INDICATED ON THE DRAWINGS OR MENTIONED IN THE SPECIFICATIONS, BUT WHICH ARE NECESSARY FOR THE COMPLIANCE WITH CODES AND FOR THE SUCCESSFUL OPERATION OF THE FEATURE. THE CONTRACTOR SHALL BE ALLOWED NO EXTRA COMPENSATION BECAUSE OF THIS REQUIREMENT.
15. THOROUGHLY TEST ALL FIXTURES, SERVICES AND ALL CIRCUITS FOR PROPER OPERATING CONDITIONS AND FREEDOM FROM GROUND AND SHORT CIRCUITS BEFORE ACCEPTANCE IS REQUESTED. ALL EQUIPMENT APPLIANCES AND DEVICES SHALL BE OPERATED UNDER LOAD CONDITIONS.
16. THERMAL OVERLOAD RELAYS SHALL BE SET AT NOT MORE THAN 115% OF MOTOR FULL LOAD CURRENT AND IN ACCORDANCE WITH MANUFACTURER'S REQUIREMENTS.
17. ALL CONNECTIONS MUST BE RE-CHECKED BEFORE START UP AND ONE MONTH AFTER START-UP BY A QUALIFIED TECHNICIAN.
18. ALL G.F.C.I. PROTECTED CIRCUITS MUST HAVE A SEPARATE NEUTRAL.
19. ALL G.F.C.I. BREAKERS HAVE DIGITALS WIRRED TO THE NEUTRAL BAR.
20. CONTRACTOR TO ENSURE THAT ALL BONDING CODES ARE COMPLIED WITH FOR EACH METAL POOL EQUIPMENT COMPONENT.
21. WIRES FOR WATER LEVEL SENSOR MUST BE RUN IN A SEPARATE CONDUIT FROM THE POOL TO THE CONTROL PANEL.
22. ALL CONDUIT PENETRATIONS THROUGH STRUCTURE WALLS INTO OPEN AREAS BELOW POOL STRUCTURE MUST HAVE ALLOWANCES MADE FOR SETTLEMENT.
23. ALL CONDUIT INSTALLATION IN TRADE AREAS BELOW THE POOLS SHALL BE INSTALLED WITH E.W.L. IN THE LEVEL BELOW WITH C.M.T. STRIPS PER NEC AND SPECIFICATIONS.
24. FLOOR MOUNTED CONTROL CENTERS AND TRANSFORMERS FOR FOUNTAIN RELATED EQUIPMENT SHALL BE INSTALLED ON A 4" CONCRETE HOUSEKEEPING PAD IF INSTALLED IN AN EQUIPMENT ROOM.
25. CONTRACTOR INSTALLING FOUNTAIN MANUFACTURER SUPPLIED DECK BOXES IN CONCRETE FOR FOUNTAIN RICHIE LIGHTING IS TO INSURE THAT ALL OPEN CONDUIT PORTS ARE PLUGGED AND ARE WATER-TIGHT PRIOR TO SLAB POOR AROUND DECK BOXES.
26. ALL PENETRATIONS THROUGH OUTSIDE WALLS TO BELOW GRADE SHALL BE SEALED PER BUILDING SPECIFICATIONS. USING "EASY-LINK SEAL" IS RECOMMENDED.
27. ALL CONNECTIONS IN THE POOL/FOUNTAIN SHALL BE MADE WITH THE ASSISTANCE OF A PLUMBER USING TEFLON TAPE OR TEFLON PASTE. USE ONLY TAPERED (N.P.F.) BRASS OR STAINLESS STEEL FITTINGS OR NIPPLES. THE USE OF GALVANIZED, P.V.C. OR BLACK STEEL IS UNACCEPTABLE.



ARCHITECT, LANDSCAPE ARCHITECT, ELECTRICAL ENGINEER



PROJECT AND OWNER

IRONIS MANOR PARK RENOVATIONS IN NORTH MIAMI FL

DATE: 04/15/2011

SCALE:

REVISIONS:

NO. DATE DESCRIPTION

1. 04/15/11

2. 04/15/11

3. 04/15/11

4. 04/15/11

5. 04/15/11

6. 04/15/11

7. 04/15/11

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37. 04/15/11

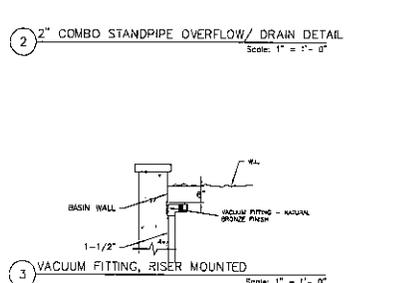
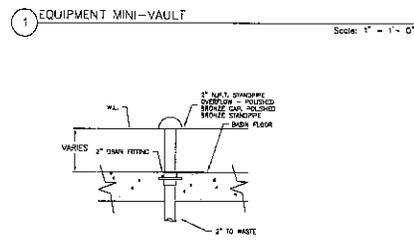
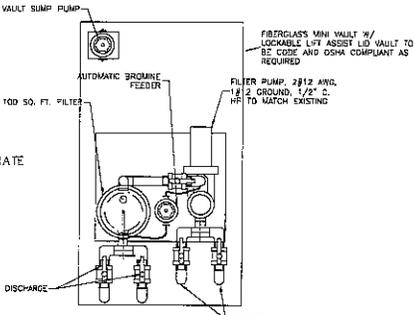
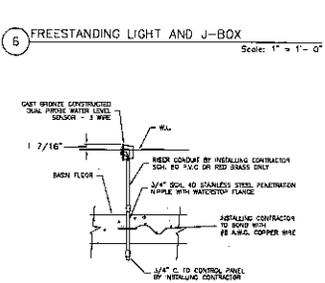
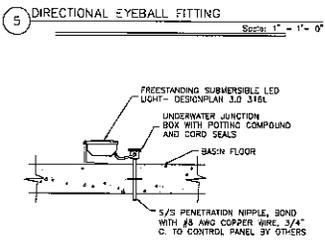
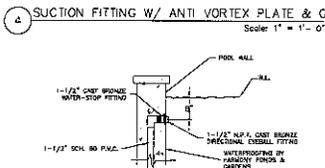
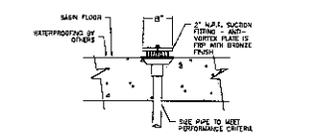
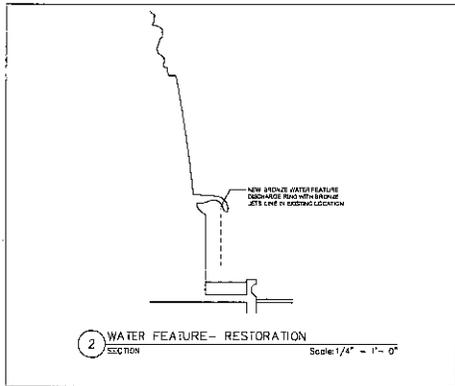
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39. 04/15/11

40. 04/15/11

41. 04/15/11

42. 04/15/11



MAK
work

MONTECAL, LAMBERT ARCHITECTURE
3000 N. MIAMI AVENUE
SUITE 100
MIAMI, FL 33136

PROJECT AND OWNER
IRONSON PARK
RENOVATIONS
NORTH MIAMI, FL

CONSULTANTS

DESIGNED BY

CREATED BY

DATE 04/12/24

DRAWN FOR

COVER SHEET

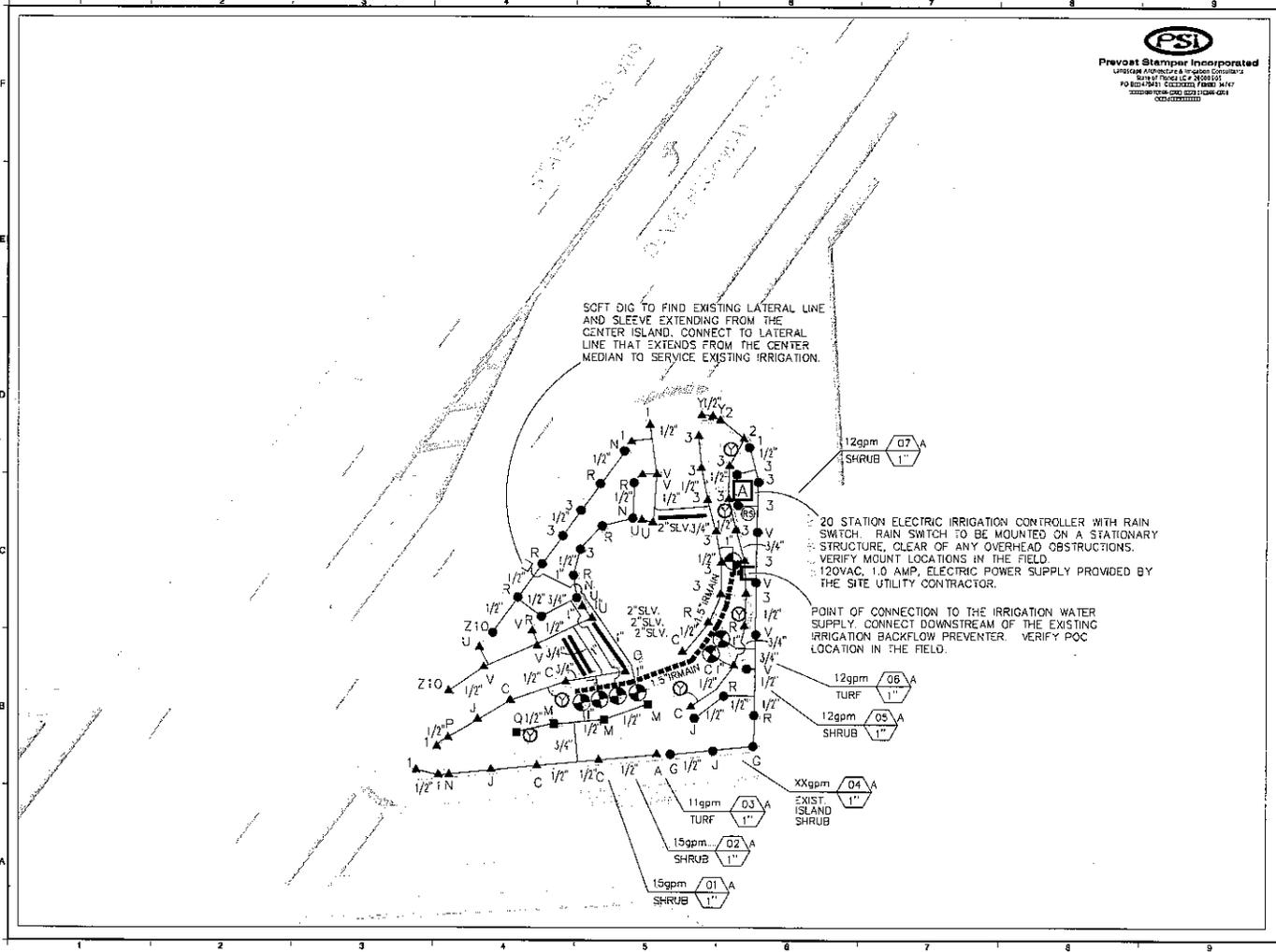
DRAWING TITLE
WATER FEATURE
RENOVATION
DETAILS

DRAWING NUMBER
WF250

SOFT DIG TO FIND EXISTING LATERAL LINE AND SLEEVE EXTENDING FROM THE CENTER ISLAND. CONNECT TO LATERAL LINE THAT EXTENDS FROM THE CENTER MEDIAN TO SERVICE EXISTING IRRIGATION.

- 20 STATION ELECTRIC IRRIGATION CONTROLLER WITH RAIN SWITCH. RAIN SWITCH TO BE MOUNTED ON A STATIONARY STRUCTURE, CLEAR OF ANY OVERHEAD OBSTRUCTIONS.
- VERIFY MOUNT LOCATIONS IN THE FIELD.
- 120VAC, 1.0 AMP, ELECTRIC POWER SUPPLY PROVIDED BY THE SITE UTILITY CONTRACTOR.

POINT OF CONNECTION TO THE IRRIGATION WATER SUPPLY. CONNECT DOWNSTREAM OF THE EXISTING IRRIGATION BACKFLOW PREVENTER. VERIFY POC LOCATION IN THE FIELD.



PROJECT NO.	IR-101
PROJECT NAME	IRONS MANOR FOUNTAIN NORTH MIAMI, FL
DATE	05/20/08
DESIGNED BY	PSI
CHECKED BY	PSI
DATE	05/20/08
SCALE	1" = 10'-0"
DRIVING SCALE	
PROJECT FILE	
IRRIGATION PLAN	
DRAWN NUMBER	IR-1.01

IRRIGATION NOTES

- 1) SOME PIPE LINES ARE DRAWN OFF SET FOR CLARITY. INSTALL ALL IRRIGATION LINES IN LANDSCAPED AREAS.
- 2) REFER TO THE LANDSCAPE PLAN WHEN DETERMINING TO AVOID TREE ROOT BALLS TO INSTALL HEADS AT APPROPRIATE LOCATIONS.
- 3) ADJUST ALL NOZZLES TO MAINTAIN UNIFORMITY OF PATTERN & MAINTAIN IRRIGATION CONTROL VALVES AS REQUIRED TO PREVENT OVERWATERING. SET CONTROLLER HIGH ENOUGH TO MAINTAIN PLANT WATER NEEDS AND SOIL CONDITIONS.
- 4) INSTALL RISERS 1/2" FROM WALLS OR BUILDINGS AND 1/2" FROM PAVED SURFACES. PLANT ALL RISERS AND SUPPORTS FLAT BLACK.
- 5) INSTALL POP-UP HEADS 1/2" FROM WALLS, 1" FROM WALLS, DECKS AND CLUSES, & 1/2" FROM CURBSLESS ROADS, AND 50" FROM THE END OF PARKING SPACES.
- 6) SET TOP OF POP-UP HEAD CAPS 1" ABOVE FINISHED GRADE PRIOR TO SOIL OR MULCH INSTALLATION.
- 7) REFER TO UTILITY PLANS PRIOR TO DETERMINING THE IRRIGATION INSTALLATION IS RESPONSIBLE FOR THE RETURN OF ANY DAMAGE TO UTILITIES CAUSED BY THEIR WORK DURING THE PROJECT.
- 8) ALL WORK SHALL BE MAINTAINED FOR ONE YEAR FROM THE DATE OF FINAL ACCEPTANCE. ADMIT ALL DEFECTS IN EQUIPMENT AND WORKMANSHIP.
- 9) ELECTRICAL POWER SUPPLY FOR THE IRRIGATION CONTROLLER SHALL BE SUPPLIED TO A SERVICE BOX AT THE SERVICE LOCATION BY THE BUILDING ELECTRICAL CONTRACTOR. IRRIGATION INSTALLER TO PROVIDE ELECTRICAL TERMINALS AND WIRING ELECTRICIAN TO CONNECT THE IRRIGATION CONTROLLER EQUIPMENT TO THE POWER SUPPLY.
- 10) IRRIGATION WATER DISTRIBUTION AND SCHEDULE CONSTRUCTION SHALL COMPLY WITH THE REQUIREMENTS OF LOCAL CODES FOR IRRIGATION INSTALLATION AND CONSTRUCTION TO THE WATER SUPPLIER.
- 11) IRRIGATION INSTALLER TO ACQUIRE ALL PERMITS AND UTILIZE ALL SAFETY PRECAUTIONS REQUIRED TO WORK IN TOWN OR SUBURBAN AREAS.
- 12) SIXTY (60) PSI MINIMUM STATIC WATER PRESSURE IS REQUIRED FOR THE EFFICIENT OPERATION OF THE IRRIGATION SYSTEM AS DESCRIBED. VERIFY THE MINIMUM STATIC WATER PRESSURE IS AVAILABLE AT THE PROJECT SITE PRIOR TO BEGINNING THE IRRIGATION INSTALLATION. NOTIFY THE LANDSCAPE ARCHITECT IN WRITING IF THE MINIMUM STATIC WATER PRESSURE OR WATER VOLUME IS NOT AVAILABLE.
- 13) AT THE END OF FINISHING SPACES PLACE HEADS IN LINE WITH PARALLEL STRIPES ON 2-3 FEET FROM SLOPE OF CURB (TYPICAL).
- 14) PRIOR TO STARTING THE WORKS INTERFERE THE WIRE AND LOCATE ALL EXISTING IRRIGATION PIPES AND EQUIPMENT. PROVIDE LABELS AND MATERIALS TO REPAIR AND CHANGE EXISTING IRRIGATION. PROVIDE "UTILITY" PIPES AND WIRING TO KEEP ADJACENT IRRIGATION ZONES OPERATIONAL THROUGHOUT THE WORKS.
- 15) THE IRRIGATION MAINLINE IS DRAWN OFFSET FOR CLARITY. DO NOT SCALE THE MAINLINE FROM THE DIMENSIONS FOR INSTALLATION. LAYOUT THE IRRIGATION MAINLINE ROUTE IN THE FIELD TO AVOID IMPROVED AND EXISTING TREE ROOT BODIES AND UTILITIES.

IRRIGATION LEGEND



SPRAY BODIES

RAINBOW 1000 SERIES SPRAY BODIES & ADAPTERS. POP-UP AND SHRUB FITTING SPRAY BODIES. PROVIDE THIS SPRAY NOZZLES PER PLAN.

USE U-TYPES NOZZLES FOR 1/2", 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3", 4", 5" & 6" NOZZLE DESIGNATION.

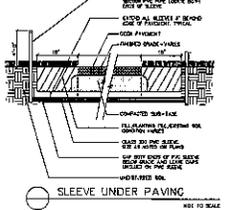
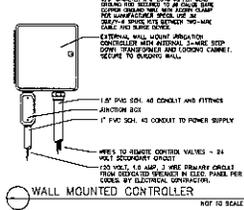
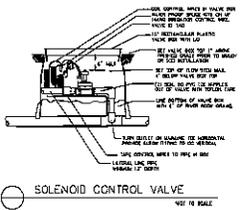
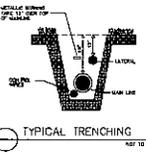
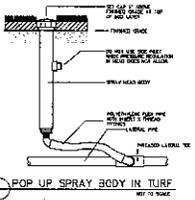
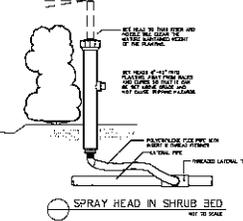
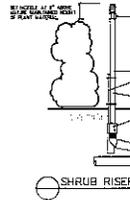
USE W-1000 SERIES NOZZLES FOR 1/2", 3/4", 1", 1 1/4", 1 1/2", 2", 2 1/2", 3", 4", 5" & 6" NOZZLE DESIGNATION.

1" POP-UP TURF SPRAY BODY
1 1/2" POP-UP TURF SPRAY BODY
1" SHRUB NOZZLE ON PVC RISER
1" REC. BUBBLER ON FLEX PE PIPE

LETTER	DN AT 30 PSI	GRADE	PATTERN
A	2.5	15'	QUARTER
B	1.5	15'	ONE THIRD
C	1.0	15'	ONE HALF
D	0.75	15'	TWO THIRD
E	0.5	15'	THREE QUARTER
F	0.3	15'	ONE
G	0.25	15'	ONE AND ONE HALF
H	0.2	15'	ONE AND TWO THIRD
I	0.15	15'	ONE AND THREE QUARTER
J	0.1	15'	TWO
K	0.075	15'	TWO AND ONE THIRD
L	0.05	15'	TWO AND ONE HALF
M	0.0375	15'	TWO AND TWO THIRD
N	0.025	15'	THREE
O	0.015	15'	THREE AND ONE HALF
P	0.01	15'	THREE AND TWO THIRD
Q	0.0075	15'	THREE AND THREE QUARTER
R	0.005	15'	FOUR
S	0.00375	15'	FOUR AND ONE THIRD
T	0.0025	15'	FOUR AND ONE HALF
U	0.0015	15'	FOUR AND TWO THIRD
V	0.001	15'	FOUR AND THREE QUARTER
W	0.00075	15'	FIVE
X	0.0005	15'	FIVE AND ONE THIRD
Y	0.000375	15'	FIVE AND ONE HALF
Z	0.00025	15'	FIVE AND TWO THIRD
AA	0.00015	15'	FIVE AND THREE QUARTER
AB	0.0001	15'	SIX
AC	0.000075	15'	SIX AND ONE THIRD
AD	0.00005	15'	SIX AND ONE HALF
AE	0.0000375	15'	SIX AND TWO THIRD
AF	0.000025	15'	SIX AND THREE QUARTER
AG	0.000015	15'	SEVEN
AH	0.00001	15'	SEVEN AND ONE THIRD
AI	0.0000075	15'	SEVEN AND ONE HALF
AJ	0.000005	15'	SEVEN AND TWO THIRD
AK	0.00000375	15'	SEVEN AND THREE QUARTER
AL	0.0000025	15'	EIGHT
AM	0.0000015	15'	EIGHT AND ONE THIRD
AN	0.000001	15'	EIGHT AND ONE HALF
AO	0.00000075	15'	EIGHT AND TWO THIRD
AP	0.0000005	15'	EIGHT AND THREE QUARTER
AQ	0.000000375	15'	NINE
AR	0.00000025	15'	NINE AND ONE THIRD
AS	0.00000015	15'	NINE AND ONE HALF
AT	0.0000001	15'	NINE AND TWO THIRD
AU	0.000000075	15'	NINE AND THREE QUARTER
AV	0.00000005	15'	TEN
AW	0.0000000375	15'	TEN AND ONE THIRD
AX	0.000000025	15'	TEN AND ONE HALF
AY	0.000000015	15'	TEN AND TWO THIRD
AZ	0.00000001	15'	TEN AND THREE QUARTER

PSI
Preston Station Incorporated
LANDSCAPE ARCHITECT & IRRIGATION CONSULTANTS
1000 N. W. 10th St., Ft. Lauderdale, FL 33304
PHONE: (305) 461-1111
FAX: (305) 461-1112
WWW.PSI-FL.COM

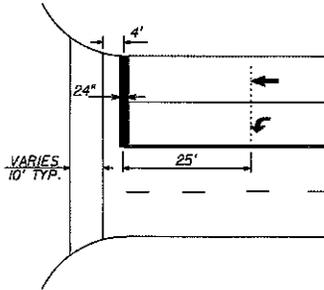
MAK
work
INTERNET: WWW.MAK-FL.COM
ADDRESS: 1000 N. W. 10th St., Ft. Lauderdale, FL 33304
PHONE: (305) 461-1111



PROJECT AND OWNER
PROJECT NO.
DRAWN BY
CHECKED BY
DATE
DESIGNED BY
DRAWING TITLE
IRRIGATION LEGEND
NOTES & DETAILS
DRAWING NUMBER
IR-1.02

SIGNING AND PAVEMENT MARKING NOTES:

1. ALL SIGNING AND PAVEMENT MARKINGS INSTALLED AS PART OF THESE PLANS SHALL CONFORM TO THE 2009 EDITION OF THE FEDERAL HIGHWAY ADMINISTRATION (FHWA) MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS (2008). ALL SIGN PANELS SHALL BE FABRICATED TO COMPLY WITH THE MOST RECENT EDITION OF THE FEDERAL HIGHWAY AND ADMINISTRATION STANDARD HIGHWAY SIGNS.
2. MATCH EXISTING PAVEMENT MARKINGS AT THE BEGINNING AND AT THE END OF THE PROJECT AND AT ALL SIDE STREETS WITHOUT JOBS AND OFFSETS.
3. INCORRECTLY PLACED PAINT MARKINGS OVER NEW ASPHALT PAVEMENT WILL BE REMOVED BY MILLING AND REPLACING THE NEW ASPHALT PAVEMENT A MINIMUM WIDTH OF 15 FEET AT THE CONTRACTOR'S EXPENSE. THE ENGINEER MAY APPROVE AN ALTERNATIVE METHOD IF IT CAN BE DEMONSTRATED TO COMPLETELY REMOVE THE MARKINGS WITHOUT DAMAGING THE ASPHALT.
4. ALL STRIPING SHALL BE THERMOPLASTIC.
5. ALL EXISTING SIGNS WITHIN THE PROJECT LIMITS ARE TO BE REMOVED, UNLESS OTHERWISE NOTED IN THE PLANS.
6. CONTRACTOR TO PROVIDE SIGNING AND PAVEMENT MARKINGS AS BUILTS TO MIAMI-DADE COUNTY PUBLIC WORKS TRAFFIC AND SIGNAL DIVISION



LOCATION OF PAVEMENT ARROW, STOP BAR
AND CROSS WALKS AT NON-SIGNALIZED INTERSECTIONS.

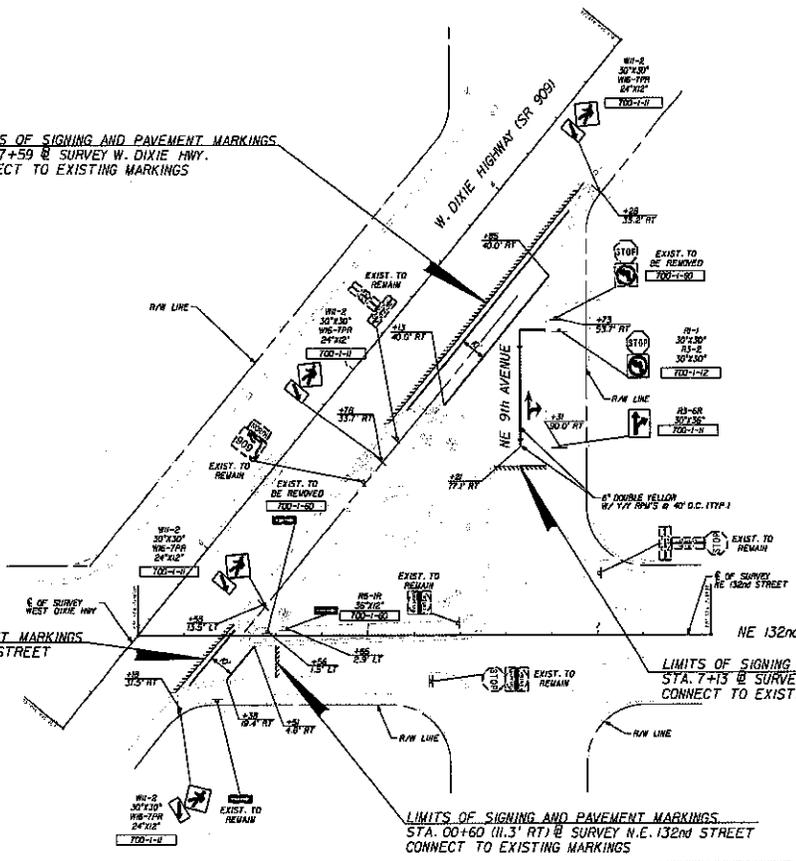
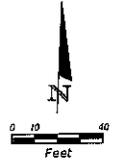


REVISIONS		CORRADINO	CITY OF NORTH MIAMI PUBLIC WORKS	CITY OF NORTH MIAMI CAPITAL IMPROVEMENTS PROGRAM		PAVEMENT MARKINGS GENERAL NOTES	SHEET NO. 1
DATE	BY			DESCRIPTION	PROJECT NAME		
				IRON MANOR FOUNTAIN	XXXXX		

4085 N.W. 97th Avenue, Doral, Florida, 33179
 PH: (305) 584-0735 Fax: (305) 584-0756
 Certificate Of Authorization No. 00007868
 E.O.H. Carlos E. Verson, P.E. No. 65007

CITY OF NORTH MIAMI
 PUBLIC WORKS
 770 N.W. 123rd STREET, 2ND FLOOR
 NORTH MIAMI, FLORIDA 33156
 (305) 995-1629 FAX (305) 895-1534

LIMITS OF SIGNING AND PAVEMENT MARKINGS
 STA. 7+59 @ SURVEY W. DIXIE HWY.
 CONNECT TO EXISTING MARKINGS

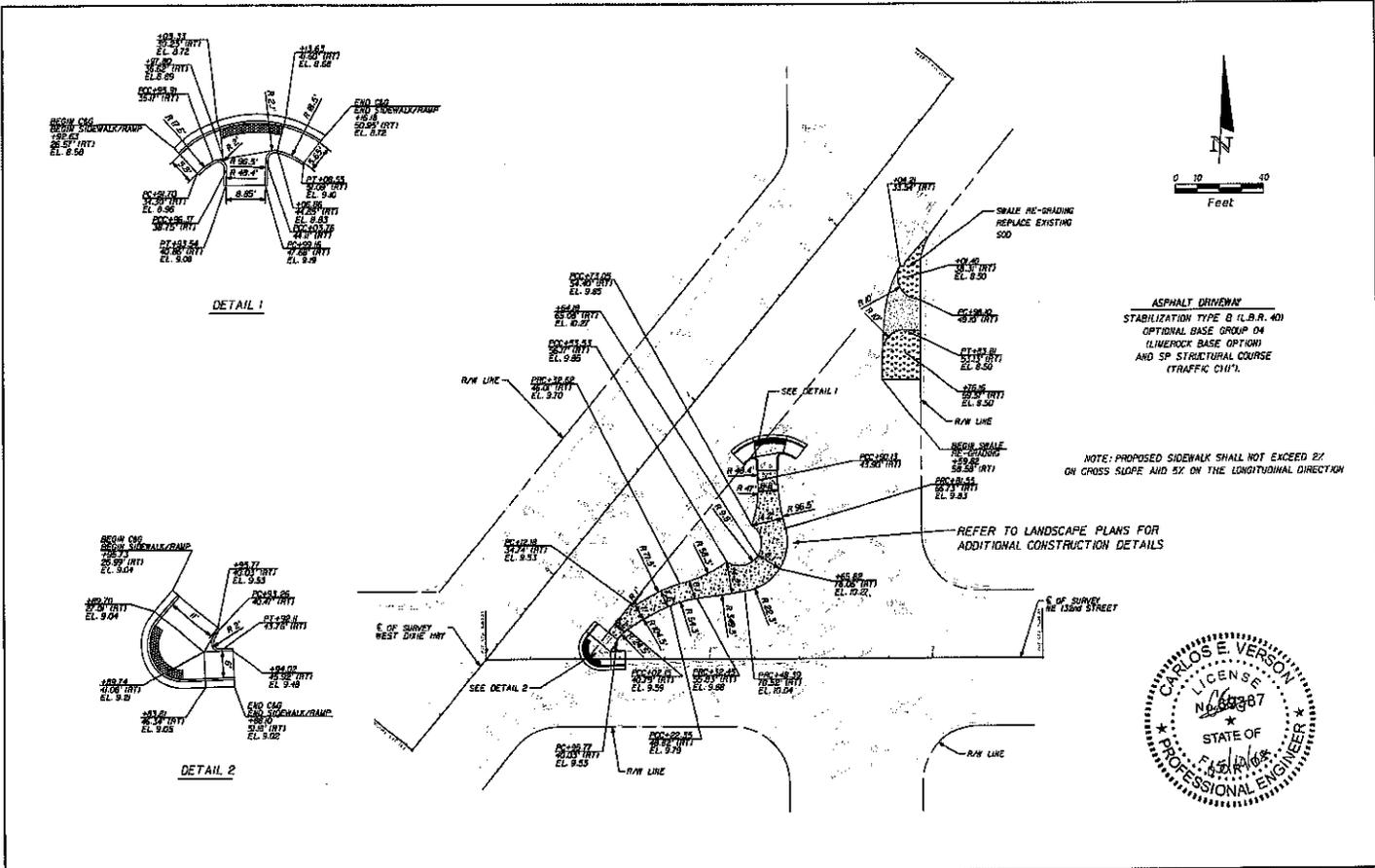


LIMITS OF SIGNING AND PAVEMENT MARKINGS
 STA. 0+29 @ SURVEY N.E. 132nd STREET
 CONNECT TO EXISTING MARKINGS

LIMITS OF SIGNING AND PAVEMENT MARKINGS
 STA. 7+13 @ SURVEY W. DIXIE HWY.
 CONNECT TO EXISTING MARKINGS

LIMITS OF SIGNING AND PAVEMENT MARKINGS
 STA. 00+60 (11.3' RT) @ SURVEY N.E. 132nd STREET
 CONNECT TO EXISTING MARKINGS

REVISIONS DATE BY DESCRIPTION		CORRADINO 4055 N.W. 97th Avenue, Coral Gables, Florida, 33178 Ph: (305) 594-0135 Fax: (305) 594-0755 Certificate of Authorization No. 00007665 E.O.R. Carlos E. Verson, P.E. No. 868387	CITY OF NORTH MIAMI PUBLIC WORKS 370 S.W. 13TH AVENUE, 2ND FLOOR NORTH MIAMI, FLORIDA 33141 (305) 975-1600 FAX (305) 955-4556	CITY OF NORTH MIAMI CAPITAL IMPROVEMENTS PROGRAM PROJECT NAME PROJECT NO. IRON MAJOR FOUNTAIN XXXXX		SIGNING & PAVEMENT MARKINGS	SHEET NO. 3
(Empty revision table)				(Empty project details)			



ASPHALT DRIVEWAY
 STABILIZATION TYPE B (L.B.R. 40)
 OPTIONAL BASE GROUP 04
 TUMEROCK BASE OPTION
 AND SP STRUCTURAL COURSE
 (TRAFFIC CH'L)

NOTE: PROPOSED SIDEWALK SHALL NOT EXCEED 2%
 ON CROSS SLOPE AND 5% ON THE LONGITUDINAL DIRECTION



REVISIONS		CORRADINO	CITY OF NORTH MIAMI PUBLIC WORKS	CITY OF NORTH MIAMI CAPITAL IMPROVEMENTS PROGRAM		ROADWAY & SIDEWALK GEOMETRY & GRADING	SHEET NO.
DATE	BY			DESCRIPTION	PROJECT NAME		
				IRON HANCO FOUNTAIN	XXXXX		4

GENERAL:

1. TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH THE PROJECT PLANS, THE CURRENT EDITION OF THE FLORIDA DOT DESIGN STANDARDS (600 SERIES), THE STANDARD SPECIFICATION FOR ROAD AND BRIDGE CONSTRUCTION, AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AS MINIMUM CRITERIA.
 2. NOTIFICATION OF LANE CLOSURES OR TEMPORARY DETOURS SHALL BE ACCOMPLISHED IN WORKING DAYS PRIOR TO CLOSURE. DETOUR OR HOT PHASE CHANGE SHALL BE SUBMITTED WITH THE REQUIRED LANE CLOSURE FORM, SKETCHES, CALCULATIONS, AND OTHER DATA TO THE ENGINEER.
 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING, AND MAINTAINING ALL TRAFFIC CONTROLS AND SAFETY DEVICES IN ACCORDANCE WITH THE CURRENT EDITION OF THE FLORIDA DEPARTMENT OF TRANSPORTATION DESIGN STANDARDS INDEX 600'S AND THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES. THE CONTRACTOR SHALL SUBMIT A DETAILED TRAFFIC CONTROL PLAN (TCP) TO THE ENGINEER FOR HIS REVIEW PRIOR TO IMPLEMENTATION. COST TO BE INCLUDED IN MAINTENANCE OF TRAFFIC PAY ITEM.
 4. THE CONTRACTOR SHALL IMMEDIATELY REPAIR ALL POTHOLES THAT DEVELOP WITHIN THE PROJECT LIMITS AND WILL MAINTAIN A SUPPLY OF COLD MIX ON THE PROJECT SITE TO EXPEDITE THESE REPAIRS. COST OF REPAIR TO BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
 5. 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.
 6. AS DETERMINED BY THE ENGINEER, THE CONTRACTOR SHALL COVER WORK ZONE SIGNS WHEN CONDITIONS NO LONGER WARRANT THEIR USE. COST OF COVERING AND UNCOVERING THE SIGNS SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
 7. 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 PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
 8. EACH EXISTING STREET NAME AND STOP SIGN AFFECTED BY CONSTRUCTION SHALL BE RELOCATED AND MAINTAINED IN AN APPROPRIATE LOCATION FOR THE DURATION OF THE PROJECT. WHEN NO LONGER AFFECTED BY CONSTRUCTION, THESE SIGNS SHALL BE RESTORED TO THEIR ORIGINAL POSITION. COST OF TEMPORARILY RELOCATING AND RESTORING THE SIGNS SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
 9. 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 PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
 10. SIGNS SHALL BE PLACED ONLY AS APPLICABLE FOR EACH INTERSECTION.
 11. ALL WORK SHALL BE PERFORMED DURING DAYTIME ONLY (8:00 AM TO 5:00 PM).
 12. CONTRACTOR SHALL OBTAIN ALL APPLICABLE MOT PERMITS.
- DROP OFFS:**
13. THE CONTRACTOR SHALL PROTECT THE WORK ZONE WITH DEVICES APPROVED BY THE CITY OF NORTH MIAMI CONSTRUCTION MANAGER WHEN DROP OFFS EXCEED 3' ADJACENT TO TRAVEL WAYS.
 14. FOR DROP OFFS, THE CONTRACTOR'S ATTENTION IS DIRECTED TO STANDARD INDEX NO. 600, SHEET 9 OF 12. THE CONTRACTOR SHALL USE SHOULDER TREATMENT DETAIL WHEN NO BARRIERS ARE REQUIRED IN THE PLANS.

PAVEMENT MARKINGS:

15. COST OF REMOVAL OF WORK ZONE PAVEMENT MARKINGS (INCLUDING PAINT, REMOVABLE TAPE AND MARKERS), REGARDLESS OF METHOD, TO BE INCLUDED IN 102-1, MAINTENANCE OF TRAFFIC. ALSO INCLUDES THE COST OF REMOVAL OF PAVEMENT MARKINGS AND MARKERS, EXISTED PRIOR TO CONSTRUCTION. USE OF BLACK PAINT TO COVER EXISTING AND/OR TEMPORARY PAVEMENT MARKINGS IS PROHIBITED. GRINDING OR MILLING SHALL ONLY BE PERMITTED IN NON-TRAFFIC AREAS.
 16. ALL TEMPORARY STRIPES AND MARKINGS SHALL BE PAINT ONLY, UNLESS OTHERWISE SPECIFIED ON THE PLANS OR APPROVED BY THE ENGINEER. COSTS TO BE INCLUDED UNDER PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.
- PEDESTRIANS, BICYCLES, AND WHEELCHAIRS:**
17. AT THE END OF EACH WORK DAY OR WHENEVER THE WORK ZONE BECOMES INACTIVE, ANY DROP OFF GREATER THAN 6' IN ADJACENT TO THE PEDESTRIAN, BICYCLE, AND WHEELCHAIR TRAVEL PATHS SHALL BE BACKFILLED FLUSH WITH THE SAID PATHS OR PROTECTED WITH TEMPORARY FENCE, CONCRETE BARRIER WALL OR APPROVED HANDRAIL. COST SHALL BE INCLUDED IN PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.

WORK ZONE LIMITS:

18. THE LENGTH OF AN OPEN TRENCH SHALL NOT EXCEED 500 FT. PROPERTY ACCESS SHALL BE MAINTAINED IN ACCORDANCE TO SUBARTICLE 102-5.3 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

TRAFFIC CONTROL PLAN:

1. CONTRACTOR SHALL DETOUR THRU TRAFFIC AND MAINTAIN ACCESS TO LOCAL RESIDENCES AT ALL TIME.
2. ALL MAINTENANCE OF TRAFFIC (INCLUDING SIGNS, BARRICADES AND TEMPORARY PAVEMENT MARKINGS) MUST BE IN STRICT ACCORDANCE WITH M.U.T.C.D. PART VI AND FLORIDA DEPARTMENT OF TRANSPORTATION AND TRAFFIC DESIGN STANDARD INDEX SERIES 600.
3. ALL MAINTENANCE OF TRAFFIC SHALL BE PAID UNDER PAY ITEM 102-1, MAINTENANCE OF TRAFFIC.



REVISIONS		CORRADINO	CITY OF NORTH MIAMI PUBLIC WORKS	CITY OF NORTH MIAMI CAPITAL IMPROVEMENTS PROGRAM		TRAFFIC CONTROL GENERAL NOTES	SHEET NO. 5
DATE	BY			DESCRIPTION	PROJECT NAME		
				IRUN HANOR FOUNTAIN	XXXXX		

