86010, 86018, 86030, 86070 & 86200 A1A, 5, 9, 824, 858 Broward

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION DISTRICT FOUR (4) INCLUSIVE LANDSCAPE MAINTENANCE MEMORANDUM OF AGREEMENT

THIS AGREEMENT, made and entered into this 27th day of 1/(mch_____2013), by and between the STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, a component agency of the State of Florida, hereinafter called the DEPARTMENT and the City of Hallandale Beach, municipal corporation of the State of Florida, existing under the Laws of Florida, hereinafter called the AGENCY.

WITNESSETH:

WHEREAS, the DEPARTMENT has jurisdiction over State Roads A1A, 5, 9, 824 and 858 as part of the State Highway System as described in Exhibit A; and

WHEREAS, the DEPARTMENT seeks to install or has installed and have maintained by the AGENCY certain landscape improvements, as defined in paragraph numbered 2, page 2, within the right of way of State Roads 5, 9, A1A, 824 and 858 as described within Exhibit B and C; and

WHEREAS, the AGENCY has installed and maintains certain landscape improvements within the right of way of State Roads A1A, 5, 9, 824 and 858 as described within Exhibit B, and C; and

WHEREAS, one (1) Adjacent Property owner adjacent to State Road 858 seeks to install landscape improvements described within Exhibits B and D, pursuant to a permit within the corporate limits of the AGENCY and the AGENCY seeks to maintain those landscape improvements; and

WHEREAS, the AGENCY and the DEPARTMENT have entered into previous agreements for the AGENCY to maintain landscape improvements on DEPARTMENT right of way; and

WHEREAS, as part of the continual updating of the State of Florida Highway System, the DEPARTMENT, for the purpose of safety, protection of the investment and other reasons, has constructed and does maintain the highway facilities as State Road(s) A1A, 5, 9, 824 and 858 described further in Exhibit A attached hereto and incorporated by reference herein; and

WHEREAS, the AGENCY is of the opinion that the highway facilities within the AGENCY'S limits that contain landscape improvements shall be maintained by the AGENCY; and

WHEREAS, it is the intent of the AGENCY and the DEPARTMENT that the AGENCY shall maintain all right of way within the medians, outside the travel way and improvements made to the travel way (if applicable) that were made at the request of the AGENCY; and

WHEREAS, as designated to be superseded, the AGENCY and DEPARTMENT intend for this agreement to replace and supersede the landscape agreements described within Exhibit C designated to be superseded, except as otherwise provided in this Agreement; and

WHEREAS, the parties hereto mutually recognize the need for entering into an Agreement designating and setting forth the responsibilities of each party; and

WHEREAS, the AGENCY by Resolution No. 2013 - 25 dated 4arch 6, 2013, attached hereto and by this reference made a part hereof, desires to enter into this Agreement and authorizes its officers to do so;

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

- 1. The recitals set forth above are true and correct and are deemed incorporated herein.
- 2. INSTALLATION OF FACILITIES BY AGENCY

The AGENCY has installed certain *landscape improvements* described herein as: plant materials, irrigation and/or hardscape on the highway facilities substantially as specified in plans and specifications hereinafter referenced to as the Project(s) and incorporated herein as referenced in Exhibit C. *Hardscape* shall mean, but not be limited to, site furnishings, landscape accent lighting, fountain, tree grates, decorative free standing or retaining wall(s), and/or any non-standard roadway, sidewalk, median or crosswalk surfacing, such as concrete pavers, color stained stamped concrete, and/or asphalt patterned pavement, but excludes standard concrete sidewalk.

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When the AGENCY is installing or will install the PROJECT, they shall comply with the following criteria.

- (a) All plant materials shall be installed and maintained in strict accordance with sound nursery practice prescribed by the International Society of Arboriculture (ISA); all plant materials installed shall be Florida #1 or better according to the most current edition of Florida Department of Agriculture, *Florida Grades and Standards for Nursery Stock;* and all trees shall meet Florida Power & Light, *Right Tree, Right Place, South Florida.*
- (b) Trees and palms within the right of way shall be installed and pruned to prevent encroachment to roadways, clear zones and sidewalks. Definition of these criteria is included in the most current editions of FDOT standards for design, construction, maintenance, and utility operations on the state highway system and the Maintenance Plan, Exhibit E.
- (c) Tree and palm pruning shall be supervised by properly trained and certified personnel and shall meet the most current standards set forth by the International Society of Arboriculture (ISA) and the American National Standard Institute (ANSI) Part A-300. Personnel shall be licensed by Broward County Environment Protection Department to perform this work.
- (d) Irrigation installation and maintenance activities shall conform to the most current standards set forth by the Florida Irrigation Society (FIS), *Standards and Specifications for Turf and Landscape Irrigation Systems.*
- (e) The AGENCY shall provide the DEPARTMENT'S local FDOT Operations Center accurate as-built plans of the irrigation system so in the future if there is a need for the DEPARTMENT to perform work in the area, the system can be accommodated as much as possible.
- (f) If it becomes necessary to provide utilities (water/electricity) to the median or side areas, it shall be the AGENCY'S responsibility to obtain a permit for such work through the local FDOT Operations Center. The AGENCY shall be responsible for all associated fees for the installation and maintenance of these utilities.
- (g) Patterned Pavement (if applicable) shall be installed and maintained as described in the plans and further described in Exhibit G and Exhibit H.

- (h) All sidewalk, crosswalk and / or median non-standard surfacing (if applicable) shall be installed and maintained in strict accordance with the most current edition of the *Florida Accessibility Code for Building Construction* and the *Interlocking Concrete Pavement institute (ICPI)* and in accordance with the Maintenance Plan, Exhibit E.
- (i) All activities, including project installation and future maintenance operations performed on State highway right of way, must be in conformity with the most current edition of the *Manual on Uniform Traffic Control* (MUTCD) and *FDOT Design Standards*, Index 600 Series, *Traffic Control through Work Zones.*
- (j) The most current edition of *FDOT Design Standards*, Index 546 must be adhered to in all activities performed on the State Highway right of way.
- (k) Horizontal and Vertical Clearance and Clear Zone as specified in the FDOT Plans Preparation Manual, Volume 1, Chapters 2 and 4 and FDOT Design Standards, Index 700 must be adhered to in all activities performed on the State Highway right of way.
- (I) Landscape improvements shall not obstruct roadside signs, traffic signals or permitted outdoor advertising signs, (see Florida Administrative *Code* [F.A.C.] Rule Chapter 14-40, Part I and Part III.)
- (m) The AGENCY shall provide the local FDOT Operation Center, Broward Operations, 5548 NW 9th Avenue, Ft. Lauderdale, FL 33309 (954) 776-4300) a twenty-four (24) hour telephone number and the name of a responsible person that the DEPARTMENT may contact. The AGENCY shall notify the local FDOT Operations Center forty-eight (48) hours prior to the start of the project.
- (n) If there is a need to restrict the normal flow of traffic, it shall be done on off-peak hours (9 AM to 3 PM), and the party performing such work shall give notice to the local law enforcement agency within whose jurisdiction such road is located prior to commencing work on the project. The DEPARTMENT'S Public Information Office shall also be notified.
- (o) The AGENCY shall be responsible to clear all utilities within the landscape improvement limits before construction commences.
- (p) The AGENCY shall follow the minimum level of maintenance guidelines as set forth in FDOT Rule Chapter 14-40 Highway Beautification and Landscape Management, the FDOT Guide to Roadside Mowing and Maintenance Management System, FDOT Maintenance Rating Program Standards and Exhibit E, the Maintenance Plan for maintenance activities for landscape projects as well as the superseded landscape agreement's Maintenance Plan's Part II, and Exhibit H, the Patterned Pavement Maintenance.

3. INSTALLATION OF FACILITIES BY DEPARTMENT

The DEPARTMENT installed or cause to be installed *landscape improvements* described as: plant materials, irrigation and/or hardscape on the highway facilities substantially as specified in the initial plans and specifications hereinafter referred to as the Project(s) and incorporated herein as referenced in Exhibit B, C and D *Hardscape* shall mean, but not be limited to, any landscape accent lighting, fountain, tree grates, decorative free standing wall and/or any non-standard roadway, sidewalk, median or crosswalk surfacing such as, but not be limited to, concrete pavers, color stamped asphalt and/or color stamped concrete. If there are any major changes to the plan(s), the DEPARTMENT shall provide the modified plan(s) to the AGENCY and the AGENCY shall provide their approval or disapproval to the DEPARTMENT within 10 business days. The DEPARTMENT may elect to withdraw the landscape improvements if changes are not approved within the given time frame.

4. MAINTENANCE OF FACILITIES

- A. The AGENCY agrees to maintain the landscape improvements, as existing and those to be installed, within the physical limits described in Exhibit A. The landscape improvements outside the travelway shall be maintained by the AGENCY regardless if the said improvement was made by the DEPARTMENT, the AGENCY, or others by periodic mowing, fertilizing, weeding, pruning, curb and sidewalk edging, litter pickup, necessary replanting, irrigation system repair and/ or repair of any median concrete replacement associated with the non-standard surfacing (if applicable) following the DEPARTMENT'S landscape safety and maintenance guidelines, Exhibit E the Maintenance Plan and Exhibit H the Patterned Pavement Maintenance (if applicable). The AGENCY'S responsibility for maintenance shall include all landscaped, turfed and hardscape areas within the median and areas outside the travelway to the right of way and areas within the travelway containing non-standard surfacing (if applicable). It shall be the responsibility of the AGENCY to restore an unacceptable ride condition of the roadway caused by the differential characteristics of non-standard surfacing and the associated header curb and concrete areas (if applicable) on DEPARTMENT right of way within the limits of this Agreement.
- B. Such maintenance to be provided by the AGENCY is specifically set out as follows: to maintain, which means to properly water and fertilize all plants; to keep them as free as practicable from disease and harmful insects; to properly mulch the planting beds; to keep the premises free of weeds; to mow the turf to the proper height; to properly prune all plants which at a minimum includes: (1) removing dead or diseased parts of plants, (2) pruning such parts thereof to provide clear visibility to signage and permitted outdoor advertising signs (per Florida Statute 479.106), and for those using the roadway and/or sidewalk; (3) preventing any other potential roadway hazards. Plants shall be those items which would be scientifically classified as plants and include trees, palms, shrubs, groundcover and turf. To maintain also means to remove or replace dead or diseased plants in their entirety, or to remove or replace those that fall below original project standards. Palms shall be kept fruit free year round. To maintain also means to keep the header curbs that contain the specialty surfacing treatment in optimum condition. To maintain also means to keep the hardscape areas clean, free from weeds and to repair said hardscape as is necessary to prevent a safety hazard. To maintain also means to keep litter removed from the median and areas outside the travel way to the right of way line. All plants removed for whatever reason shall be replaced by plants of the same species type, size, and grade as specified in the original plans and specifications. Any changes to the original plans shall be submitted by permit application to the DEPARTMENT for review and approval.
- C. If it becomes necessary to provide utilities (water/electricity) to the medians or areas outside the travelway for these improvements, all costs associated with the utilities associated with landscape accent lighting and/or irrigation including, but not limited to the impact and connection fees, and the on-going cost of utility usage for water and electrical, are the maintaining AGENCY'S responsibility.
 - (1) The AGENCY shall be directly responsible for impact and connection fees.
 - (2) If installed by the DEPARTMENT the AGENCY shall become responsible for the above named utility costs upon final acceptance of the construction project by the DEPARTMENT and thereafter. The construction project is accepted prior to the start of the Plant Establishment and Contractor's Warranty Period.

AND

(3) The AGENCY shall be responsible for all the improvements immediately after final acceptance of the construction project by the DEPARTMENT except for plant material which will be maintained by the Department's contractor during the Plant Establishment and Contractor's Warranty Period.

The AGENCY shall be responsible for the maintenance of all improvements after the completion of the Plant Establishment and Contractor's Warranty Period. If the AGENCY installs the hardscape, the AGENCY shall be responsible for utilities as provided for in paragraph number 2. (f).

D. The above named functions to be performed by the AGENCY may be subject to periodic inspections by the DEPARTMENT at the discretion of the DEPARTMENT. Such inspection findings will be shared with the AGENCY and shall be the basis of all decisions regarding, repayment, reworking or agreement termination. The AGENCY shall not change or deviate from said plans without written approval of the DEPARTMENT.

5. SUPERSEDED PRECEDING LANDSCAPE AGREEMENTS

This Agreement shall replace and supersede any and all preceding landscape agreements as listed in Exhibit C except as specifically excepted out. The landscape improvement plans and the associated Maintenance Plan Part II attached to the referenced agreements and project costs shall by reference become a part of this agreement as if they were attached hereto unless superseded by later plans. The AGENCY shall have the same duty to maintain those landscape improvements under this Agreement as the Agency did under the previous landscape agreements, and as more specifically detailed in this Agreement.

This writing embodies the entire Agreement and understanding between the parties hereto and there are no other Agreements and understanding, oral or written, with reference to the subject matter hereof that are not merged herein and superseded hereby except as specifically reference in Exhibit C.

6. NOTICE OF MAINTENANCE DEFICIENCIES

- A. If at any time after the AGENCY has undertaken the landscape improvement installation and/or maintenance responsibility mentioned above, it shall come to the attention of the DEPARTMENT'S District Secretary that the limits, or a part thereof, are not properly maintained pursuant to the terms of this Agreement, said District Secretary, may at his/her option, issue a written notice that a deficiency or deficiencies exist(s), by sending a certified letter to the AGENCY, to placing said AGENCY on notice thereof. Thereafter, the AGENCY shall have a period of thirty (30) calendar days within which to correct the cited deficiencies. If said deficiencies are not corrected within this time period, the DEPARTMENT may, at its option, proceed as follows:
 - (1) Complete the installation, or part thereof, with DEPARTMENT or Contractor's personnel and deduct the cost of such work from the final payment for said work or part thereof, or,
 - (2) Maintain the landscape improvements or any part thereof, with the DEPARTMENT or Contractor's personnel and invoice the AGENCY for expenses incurred, or,
 - (3) At the discretion of the DEPARTMENT, terminate the Agreement in accordance with Paragraph 11, and remove, by the DEPARTMENT or private Contractor's personnel, all of the landscape improvements installed under this Agreement or any preceding Agreements except as to trees and palms and charge the AGENCY the reasonable cost of such removal.
- B. The AGENCY agrees to reimburse the DEPARTMENT all monies expended by the DEPARTMENT for the projects listed in Exhibit B, C and D in the amounts listed in those agreements should the landscape improvement areas fail to be maintained in accordance with the terms and conditions of this Agreement in the amounts listed in those agreements.

7. FUTURE DEPARTMENT IMPROVEMENTS

In the event the DEPARTMENT decides to construct additional landscape improvements or modify these improvements within the limits of the rights of way herein previously identified, the DEPARTMENT and the AGENCY shall agree in writing and require signature from the AGENCY, hereby designated as the (Mayor, City Manager, Director of Public Works, City Engineer) who will have approval signature for the new landscape improvements and maintenance plan thereof. If the AGENCY and the DEPARTMENT are unable to come to an agreement, the DEPARTMENT, in its sole discretion, may install sod and the agency shall be required, pursuant to this Agreement, to continue maintaining said landscape improvements. It is understood between the parties hereto that the landscape improvements covered by this Agreement may be removed, relocated, or adjusted at any time in the future, as determined to be necessary by the DEPARTMENT in order that the adjacent state road(s) be widened, altered, or otherwise changed to meet with future criteria or planning of the DEPARTMENT. The AGENCY shall be given sixty (60) calendar day's notice to remove said landscape after which time the DEPARTMENT may remove same. All permits (including tree permits), fees, and any mitigation associated with the removal, relocation or adjustments of these improvements are the maintaining AGENCY'S responsibility.

8. FUTURE AGENCY IMPROVEMENTS

The AGENCY may construct additional landscape improvements within the limits of the rights of ways identified as a result of this document, subject to the following conditions:

- (a) Plans for any new landscape improvements shall be subject to approval by the DEPARTMENT. The AGENCY shall not change or deviate from said plans without written approval by the DEPARTMENT.
- (b) The AGENCY shall procure a permit from the DEPARTMENT.
- (c) All landscape improvements shall be developed and implemented in accordance with appropriate state safety and roadway design standards.
- (d) The AGENCY agrees to comply with the requirements of this Agreement with regard to any additional landscape improvements installed at no cost to the DEPARTMENT.
- (e) If the AGENCY'S landscape improvements include additional maintenance requirements, the AGENCY, through (Mayor, City Manager, Director of Public Works, City Engineer) approval signature, and the DEPARTMENT shall enter into an Agreement Amendment describing the additional requirements.

9. ADJACENT PROPERTY OWNER IMPROVEMENTS

The DEPARTMENT may allow an adjacent property owner to construct additional landscape improvements within the limits of the right of way identified in Exhibit A of this document that the AGENCY shall be responsible for maintaining under this agreement subject to the following conditions:

- (a) Plans for any new landscape improvements shall be subject to approval by the DEPARTMENT and shall require a valid permit attached with a letter of consent to said plans by the AGENCY. The plans shall not be changed or deviated from without written approval by the DEPARTMENT and the AGENCY.
- (b) All landscape improvements shall be developed and implemented in accordance with appropriate state safety and roadway design standards.

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- (c) The AGENCY agrees to comply with the requirements of the Agreement with regard to any additional landscape improvements installed by an adjacent owner.
- (d) If the Adjacent Property Owner's landscape improvements include additional maintenance requirements, the AGENCY, through (Mayor, City Manager, Director of Public Works, City Engineer)approval signature, and the DEPARTMENT shall enter into an Agreement Amendment describing the additional requirements

10. PROJECT COST FOR DEPARTMENT INSTALLED PROJECT

The DEPARTMENT agrees to enter into a contract for the installation of the Project for an amount not to exceed <u>\$82,397.50</u> as defined in Exhibit F. This amount may be reduced or eliminated at the sole discretion of the DEPARTMENT or due to budgetary constraints of the DEPARTMENT.

The DEPARTMENT'S participation in the Project cost, as described in Exhibit F is limited to only those items which are directly related to this Project.

The AGENCY shall be invited to assist the DEPARTMENT in final inspection upon completion of the Plant Establishment and Contractor's Warranty Period.

11. AGREEMENT TERMINATION

This Agreement may be terminated under any one (1) of the following conditions:

- (a) By the DEPARTMENT, if the AGENCY fails to perform its duties under this Agreement, following ten (10) days written notice.
- (b) By the DEPARTMENT, for refusal by the AGENCY to 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 AGENCY in conjunction with this Agreement.

12. AGREEMENT TERM

- A. The term of this Agreement commences upon execution by all parties. The term of this Agreement shall remain in effect for twenty-five (25) years.
- B. If the DEPARTMENT cancels one or all the project(s) described in Exhibit B this Agreement shall still be valid.

13. LIABILITY AND INSURANCE REQUIREMENTS

- A. With respect to any of the AGENCY'S agents, consultants, sub-consultants, contractors, and/or sub-contractors, such party in any contract for this project shall agree to indemnify, defend, save and hold harmless the DEPARTMENT from all claims, demands, liabilities, and suits of any nature arising out of, because of or due to any intentional and/or negligent act or occurrence, omission or commission of such agents, consultants, sub-consultants, contractors and/or subcontractors. The AGENCY shall provide to the DEPARTMENT written evidence of the foregoing upon the request of the DEPARTMENT. It is specifically understood and agreed that this indemnification clause does not cover or indemnify the DEPARTMENT for its own negligence.
- B. In the event that AGENCY contracts with a third party to provide the services set forth herein, any contract with such third party shall include the following provisions:

- (a) AGENCY'S contractor shall at all times during the term of this Agreement keep and maintain in full force and effect, at contractor's sole cost and expense, Comprehensive General Liability with minimum limits of \$1,000,000.00 per occurrence combined single limit for Bodily Injury Liability and Property Damage Liability and Worker's Compensation insurance with minimum limits of \$500,000.00 per Liability. Coverage must be afforded on a form no more restrictive that the latest edition of the Comprehensive General Liability and Worker's Compensation policy without restrictive endorsements, as filed by the Insurance Services Office and shall name the DEPARTMENT as an additional insured.
- (b) AGENCY'S contractor shall furnish AGENCY with Certificates of Insurance of Endorsements evidencing the insurance coverage specified herein prior to the beginning performance of work under this Agreement.
- (c) Coverage is not to cease and is to remain in full force and effect (subject to cancellation notice) until all performance required of AGENCY'S contractor is completed. All policies must be endorsed to provide the DEPARTMENT with at least thirty (30) days notice of cancellation and or/or restriction. If any of the insurance coverages will expire prior to the completion of work, copies of renewal policies shall be furnished at least (30) days prior to the date of expiration.

14. E-VERIFY REQUIREMENTS

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) 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 Agency 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 Agency term.
- 15. The DEPARTMENT, during any fiscal year, shall not expend money, incur any liability, nor enter into any contract which, by its terms, involves the expenditure of money in excess of the amounts budgeted as available for expenditure during such fiscal year. Any contract, verbal or written, made in violation of this subsection is null and void, and no money may be paid on such contract. The DEPARTMENT shall require a statement from the Comptroller of the DEPARTMENT that funds are available prior to entering into any such contract or other binding commitment of funds. Nothing herein contained shall prevent the making of contracts for periods exceeding one year, but any contract so made shall be executory only for the value of the services to be rendered or agreed to be paid for in succeeding fiscal years; and this paragraph shall be incorporated verbatim in all contracts of the DEPARTMENT which are for an amount in excess of TWENTY-FIVE THOUSAND DOLLARS (\$25,000.00) and which have a term for a period of more than one year.

16. DISPUTES

The DEPARTMENT'S District Secretary shall decide all questions, difficulties, and disputes of any nature whatsoever that may arise under or by reason of this Agreement, the prosecution or fulfillment of the service hereunder and the character, quality, amount and value thereof; and his decision upon all claims, questions, and disputes shall be final and conclusive upon the parties hereto.

17. ASSIGNMENT

This Agreement may not be assigned or transferred by the AGENCY, in whole or in part, without the prior written consent of the DEPARTMENT.

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18. LAWS GOVERNING

This Agreement shall be governed by and construed in accordance with the laws of the State of Florida. In the event of a conflict between any portion of the contract and Florida law, the laws of Florida shall prevail. The Agency agrees to waive forum and venue and that the Department shall determine the forum and venue in which any dispute under this agreement is decided.

19. EXCEPTION TO SUPERSEDED PRECEDING LANDSCAPE AGREEMENTS

This Agreement constitutes the complete and final expression of parties with respect to the subject matter hereof and supersedes all prior landscape agreements, understandings, or negotiations with respect thereto, with the exception of the landscape improvements plans and the associated Maintenance Plan Part II and the Agreements "Excepted Out" in Exhibit C.

20. NOTICES

Any and all notices given or required under this Agreement shall be in writing and either personally delivered with receipt acknowledgement or sent by certified mail, return receipt requested. All notices shall be sent to the following addresses:

If to the DEPARTMENT:

State of Florida Department of Transportation 3400 West Commercial Blvd. Ft. Lauderdale, FL 33309-3421 Attention: Elisabeth A. Hassett, R.L.A. FDOT District IV Landscape Architect If to the AGENCY: City of Hallandale Beach Utilities & Engineering 630 Northwest 2nd Street Hallandale Beach, Florida Attention: Richard Labinsky, P.E. City Engineer

21. LIST OF EXHIBITS

Exhibit A:	Landscape Improvements Limits & Maintenance Boundaries List,
	Table and Graphic
Exhibit B:	Pending Department and Permit Projects Landscape Agreement(s)
	Preceding Landscape Agreement Description(s) and
	Other Agreement Descriptions
Exhibit D:	Pending Department and Permit Projects Landscape Improvement Plans

- Exhibit E: Landscape Maintenance Plan
- Exhibit F: Pending Department Project(s) Cost Estimate
- Exhibit G: Agency Patterned Pavement Installation
- Exhibit H: Patterned Pavement Maintenance

IN WITNESS WHEREOF, the parties hereto have executed this Agreement effective the day and year first above written.

CITY OF HALLANDALE BEACH	STATE OF FLORIDA	
By: Maxor by	By: Transportation Development	STATE OF ALON
Attest: (SEAL)	Attest: Manne State Executive Secretary	ARTSEAL)
Approval as to Form	Approval as to Form	
Attorney Date	Office of General Counsel	Date

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86010, 86018, 86030, 86070 & 86200 A1A, 5, 9, 824, 858 Broward

EXHIBIT A

CITY OF HALLANDALE BEACH LANDSCAPE IMPROVEMENT LIMITS AND MAINTENANCE BOUNDARIES LIST

All state rights of way within the limits of the City of Hallandale Beach to be maintained are from:

<u>SR A1A</u>

Section 86030000 (SR A1A) M.P. 0.000 (South City Limits) to M.P. 0.790 (SR 858/Hallandale Beach Boulevard)

<u>SR 5 (US 1)</u>

Section 86010000 (SR 5/US 1) M.P. 0.000 (South City Limits) to M.P. 1.526 (SR 824/Pembroke Road)

SR 824 (Pembroke Road)

<u>Section 86018000</u> (SR 824/Pembroke Road) M.P. 5.059 (SR 5/US 1) to M.P. 6.547 (SR 5/US 1)

SR 858 (Hallandale Beach Blvd.

<u>Section 86200000</u> (SR 858/Hallandale Beach Blvd.) M.P. 2.590 (Median east of SR 9/I-95) to M.P. 5.429 (SR A1A)

<u>SR 9 (I-95)</u>

Section 86070008 (SR 9/I-95) M.P. 0.000 (SR 858/Hallandale Beach Blvd. Interchange - Northeast Quandrant) to M.P. 0.170

Section 86070009

(SR 9/I-95) M.P. 0.000 (SR 858/Hallandale Beach Blvd. Interchange - Southeast Quadrant) to M.P. 0.264

SR 9 (I-95)

Section 86070013

(SR 9/I-95) M.P. 0.000 (SR 824/Pembroke Road Interchange - Southeast Quadrant) to M.P. 0.250

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SECTION No.(s):	86010, 86018, 86030, 86070 & 86200
S.R. No.(s):	A1A, 5, 9, 824, 858
COUNTY:	Broward

EXHIBIT A

CITY OF HALLANDALE LANDSCAPE MAINTENANCE LIMITS TABLE The following are State Road(s) to be maintained within the limits of the City of Hallandale Beach

STATE ROAD	BEGIN LIMITS	BEGIN MILEPOST	END LIMITS	END MILEPOST	MAINTENANCE LIMITS	
A1A	South City Limits	0.000	SR 858/Hallandale Bch. Blvd.	0.790	ROW to ROW	86030000
5/US 1	South City Limits	0.000	824/Pembroke Road	1.526	ROW to ROW	86010000
824/Pembroke Road	SR 9/I-95	5.059	SR 5/US 1	6.547	ROW to ROW	86018000
858/Hallandale Beach Blvd	Median East of SR 9/I-95	2.590	SR A1A	5.429	ROW to ROW	86200000
9 /I-9 5	SR 858/Hallandale Beach B	lvd. Interchai	nge		· · · · · · · · · · · · · · · · · · ·	· · · · ·
	Northeast Quadrant	0.000		0.170	NB on ramp	86070008
	Southeast Quadrant	0.000		0.264	NB off ramp	86070009
9/I-95	SR 824/Pembroke Road Int	erchange		ñ		
	Southeast Quadrant	0.000		0.250	NB off ramp	86070013

Areas to be maintained by the Agency pursuant to this Landscape Maintenance Memorandum of Agreement (MOA).

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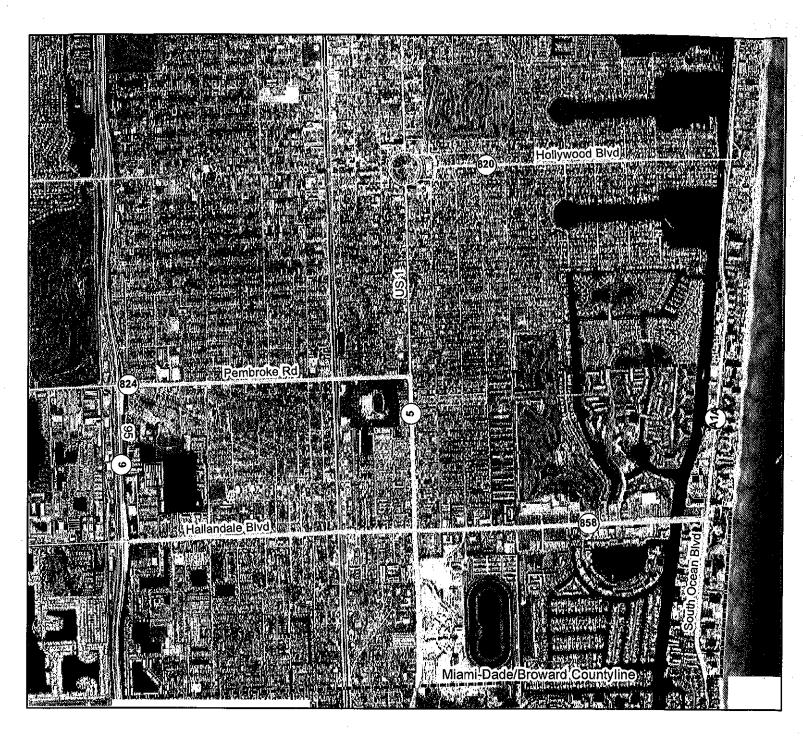
EXHIBIT A

CITY OF HALLANDALE BEACH LANDSCAPE MAINTENANCE LIMITS GRAPHIC

See Attached Graphic of State Road(s) to be maintained within the limits of the City of Hallandale Beach

C. Transportation Device ment?MCF-MLandshape Anchitecture/AOREEMENTSM_MONULANDALE BEACHINELURIVE AMMOAnhailanntaieBehlineilurite__MOA(2-4-13).65cz

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City of Hallandale Beach

Inclusive Landscape Maintenance Memorandum of Agreement Maintenance Boundary Graphic

LEGEND

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Inclusive Agreement

Hallandale Beach City Limits

86010, 86018, 86030, 86070 & 86200 A1A, 5, 9, 824, 858 Broward

EXHIBIT B

PENDING DEPARTMENT AND PERMIT PROJECTS LANDSCAPE AGREEMENT(S)

DEPARTMENT PROJECTS:

State Road 9 (I-95) and State Road 858 (Hallandale Beach Boulevard) Interchange, northeast quadrant from M.P. 0.000 to M.P. 0.170 and southeast quadrant from M.P. 0.000 to M.P. 0.264

State Road 9 (I-95) and State Road 824 (Pembroke Road) Interchange, southeast quadrant from M.P. 0.000 to M.P. 0.250

PERMIT PROJECT:

State Road 858 (Hallandale Beach Boulevard) at (M.P. 4.99 to 5.09), Permit #2012-L-491-0014

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Page 14 of 27

86010, 86018, 86030, 86070 & 86200 A1A, 5, 9, 824, 858 Broward

EXHIBIT C

PRECEDING LANDSCAPE AGREEMENT DESCRIPTION(S) AND OTHER AGREEMENT DESCRIPTIONS

The following Landscape agreements have been executed for projects that have been installed in accordance with the plans and specifications attached thereto and incorporated herein but not exclusive to the following agreement descriptions:

LANDSCAPE AGREEMENTS SUPERSEDED BY THIS AGREEMENT

State Road 824 (Pembroke Road)

8/8/07 State Road 824 (Pembroke Road) from N.W. 9th Avenue (M.P. 5.374) to N.W. 8th Avenue (M.P. 5.441) Beautification Grant. \$60,800.00 for landscape and irrigation. FM No. 419839.1 Contract No. AOU 49, Resolution No. 2007-02 (1/17/07).

State Road 858 (Hallandale Beach Boulevard)

9/10/07 State Road 858 (Hallandale Beach Boulevard) from west of Lake Shore Drive (M.P. 2.176) to east of Dixie Highway (M.P. 3.632) \$307,264.00 for landscape, irrigation and landscape accent lighting. FM No. 413791.1, Resolution No. 2007-24 (5/2/07).

12/19/03 State Road 858 (Hallandale Beach Boulevard) from State Road 5 (US 1) (M.P.3.999) to Three Islands Boulevard (M.P. 5.00) on the east and State Road 858 (Hallandale Beach Boulevard) from the Florida East Coast Railroad (M.P. 3.662) to State Road 5 (US 1/Federal Highway) (M.P. 3.99) on the west. \$489,933.82 (east) \$95,741.77 (west) for landscape irrigation and pavers, FM Nos. 228159.1 and 228269.1, Resolution No 2003-24 (9/16/03).

3/4/98 State Road 858 (Hallandale Beach Boulevard) from State Road 5 (US 1) (M.P.3.999) east to State Road A1A (M.P. 5.429) and State Road A1A from Hallandale Beach Boulevard south to City Limits (M.P.0.00) \$275,000.00 for landscape and irrigation, WPI No. 4110572, Resolution No. 97-33 (12/16/97).

2/15/91 State Road 858 (Hallandale Beach Boulevard) from State Road 5 (US 1) to ICW (M.P.3.99) to (M.P. 5.25) for landscape materials, 232872.1 WPI No. 4119110, Resolution No. 91-01 (1/22/91).

State Road A1A

8/23/95 State Road A1A from State Road 858 (Hallandale Beach Boulevard) (M.P.0.766) south to City Limits (M.P. 0.000) \$20,000.00 for landscape and irrigation. WPI No. 4119110.

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Page 15 of 27

State Road 5 (US 1)

5/28/03 State Road 5 (US 1) from Miami-Dade/Broward County Line (M.P. 0.000) to State Road 824 (Permbroke Road) (M.P.1.597) \$282,418.59 for landscape and irrigation. FM Nos. 228034.1 and 403585.1, Resolution No. 2003-7 (2/18/03).

State Road 9 (I-95)

1-15-04 State Road 9 (I-95) three ramps: 2 eastern quadrants at State Road 858 (Hallandale Beach Boulevard) and the southeastern quadrant at State Road 824 (Pembroke Road). \$136,500.00 for landscape. FM No. 409425.1, Resolution No. 2003-21 (8/19/03).

PERMIT PROJECT PENDING LANDSCAPE AGREEMENT

State Road 858 (Hallandale Beach Boulevard)

10/30/12 State Road 858 (Hallandale Beach Boulevard) at (M.P. 4.99 to 5.09) for landscape Permit #2012-L-491-0014 issued to the City of Hallandale Beach. Agency Letter of Commitment to Maintain signed 10/30/12

This Agreement, pursuant to paragraph number 5, shall supersede all other above agreements except as to the actual landscape plans and project cost that have not been replanted by subsequent FDOT approved projects and those that are "excepted out". The terms of this agreement shall apply to those landscape plans.

SCTronsportation Developmont/PMIPAU-adscopp Architecture/AGREGUEN (SULKOARHALLANDALE BEACHINEL) (SUS) MMO/URbitanuateBehinclusive - MO/(2-1-13).doox

86010, 86018, 86030, 86070 & 86200 A1A, 5, 9, 824, 858 Broward

EXHIBIT D

PENDING DEPARTMENT AND PERMIT PROJECT LANDSCAPE IMPROVEMENT PLANS

DEPARTMENT PROJECTS:

State Road 9 (I-95) at State Road 858 (Hallandale Beach Boulevard)Ronald R. Sill, RLAReynolds, Smith and Hills, Inc.Dated: October 15, 2012

DEPARTMENT PROJECTS:

State Road 9 (I-95) at State Road 824 (Pembroke Road) Ronald R. Sill, RLA Reynolds, Smith and Hills, Inc.

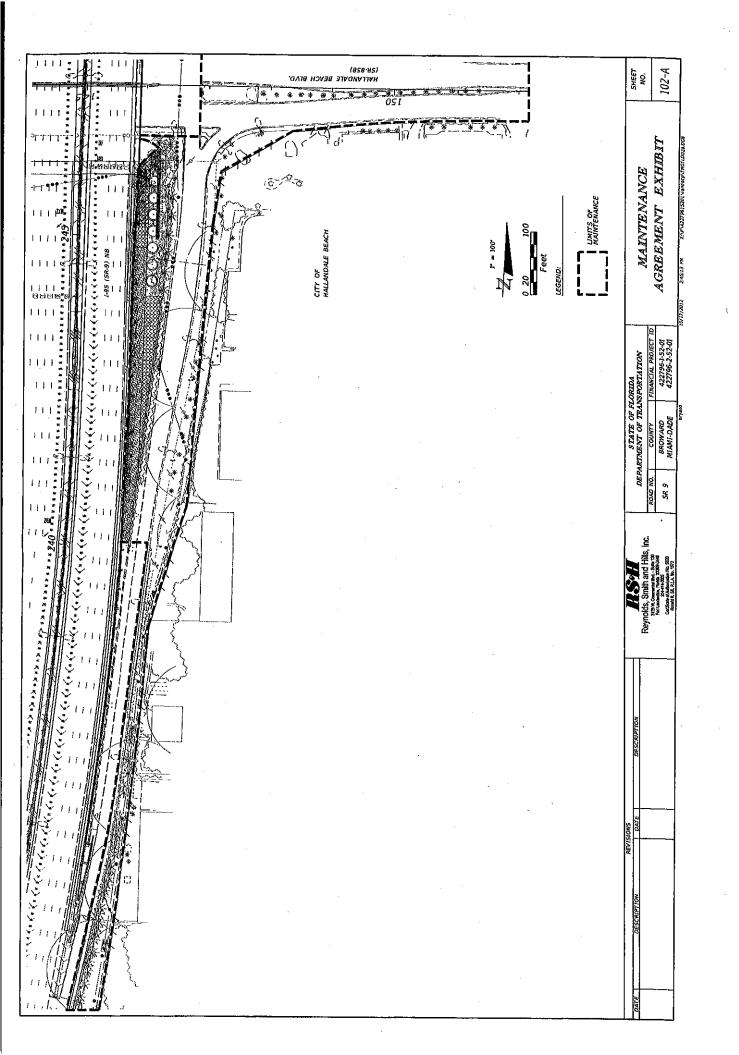
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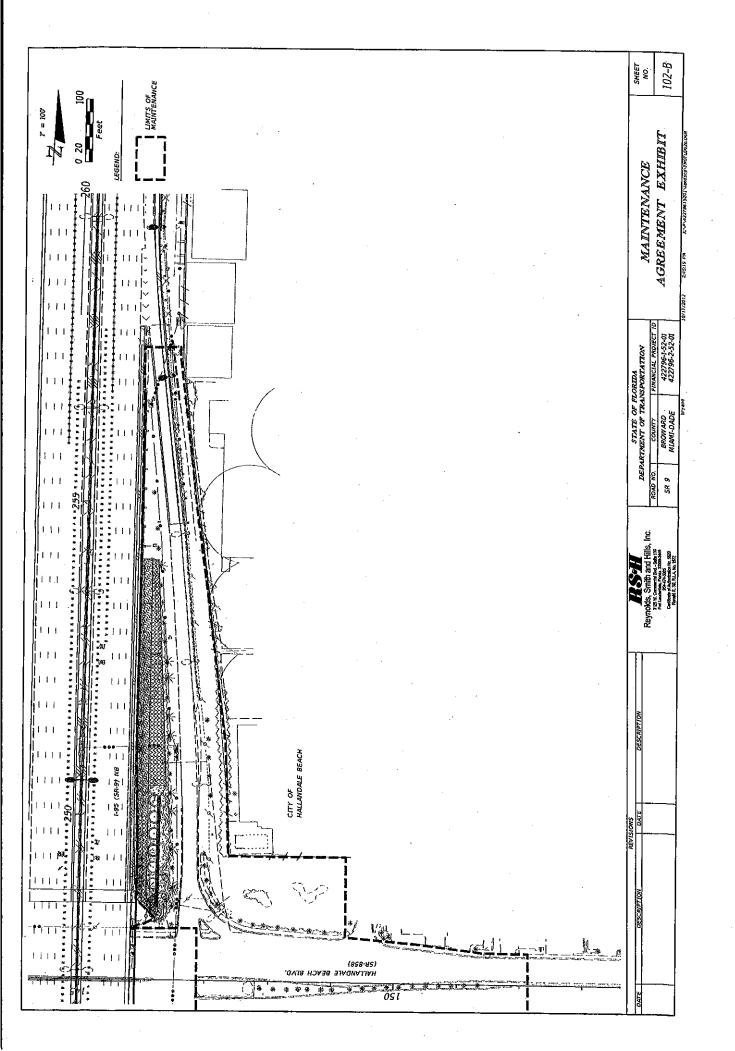
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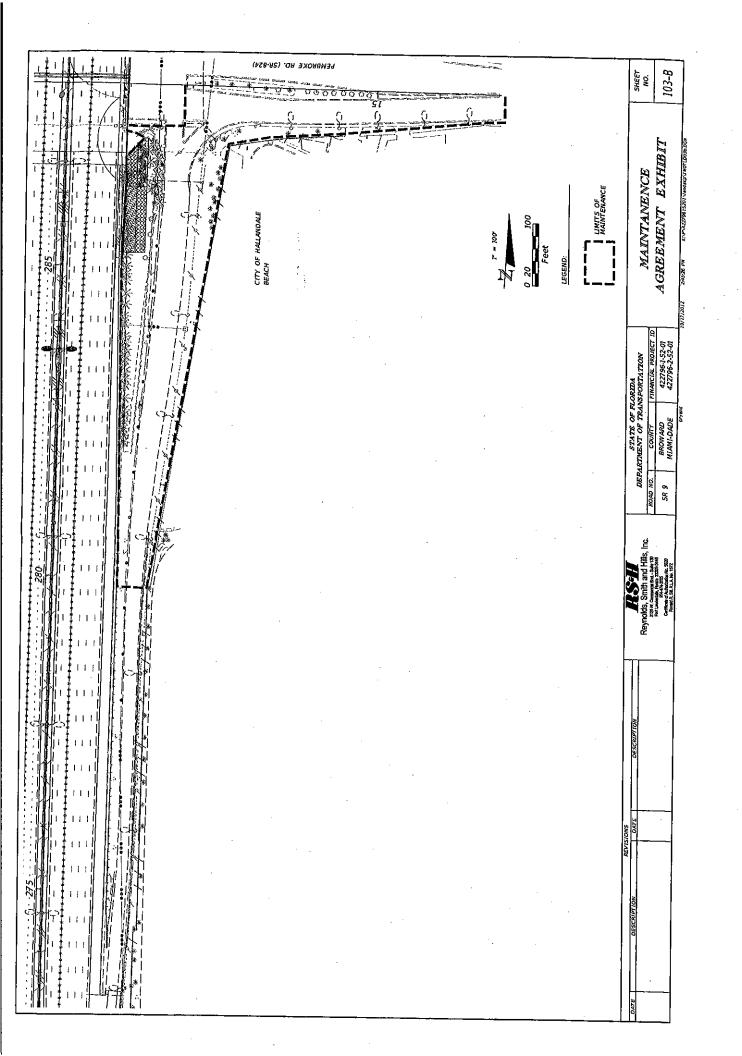
State Road 858 (Hallandale Beach Boulevard) Richard Labinsky, P.E.. City of Hallandale Beach

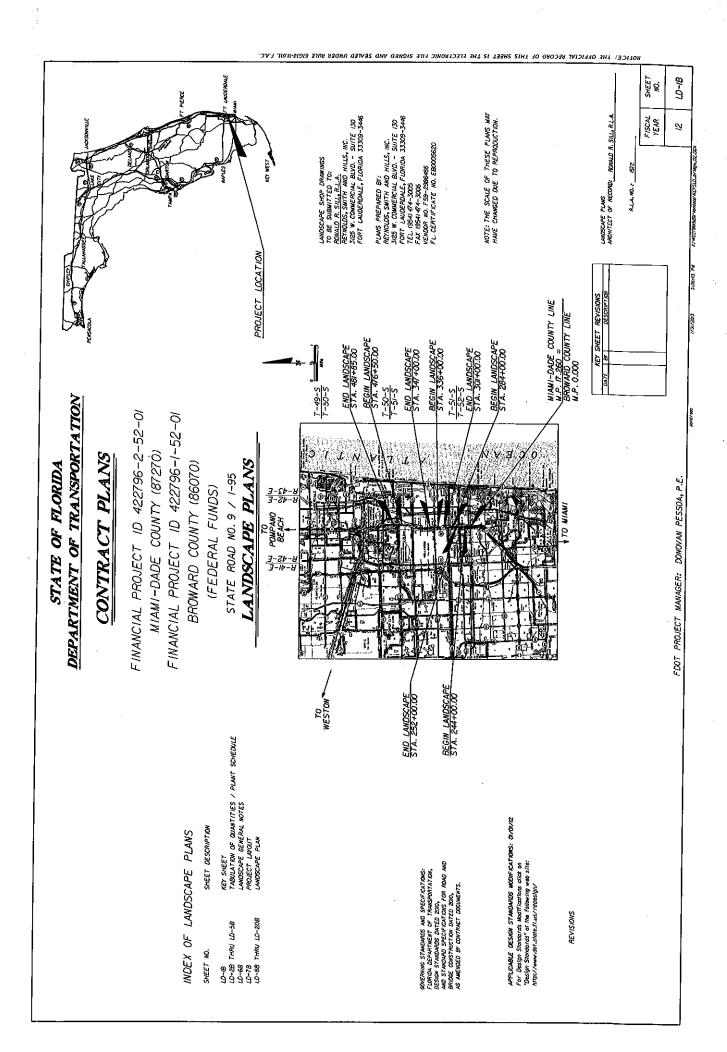
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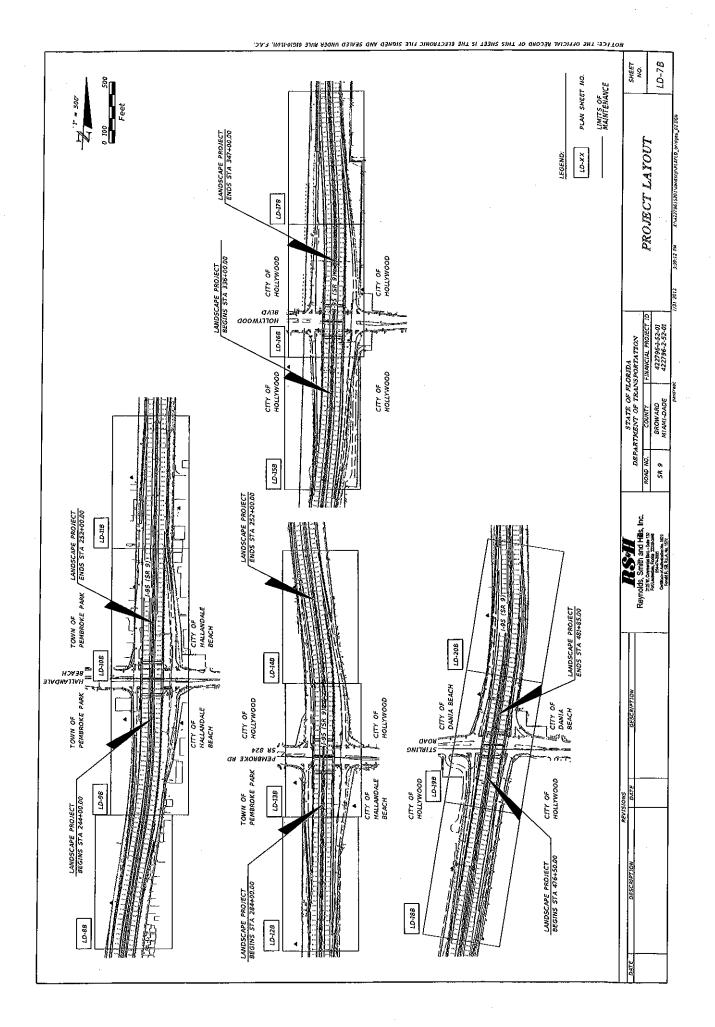
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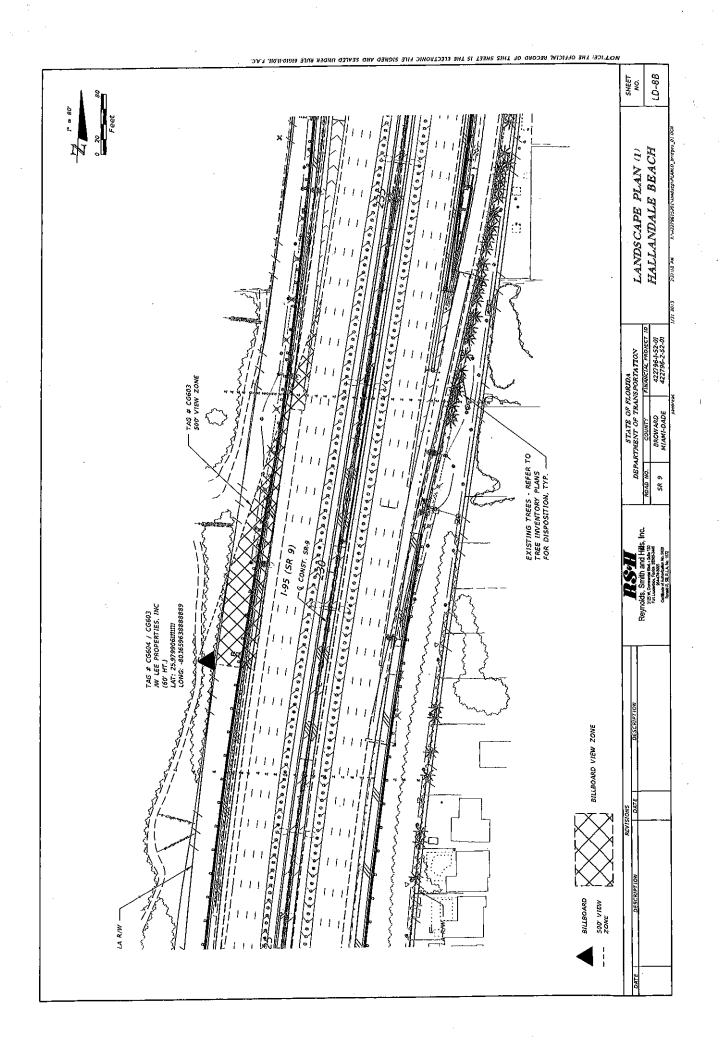
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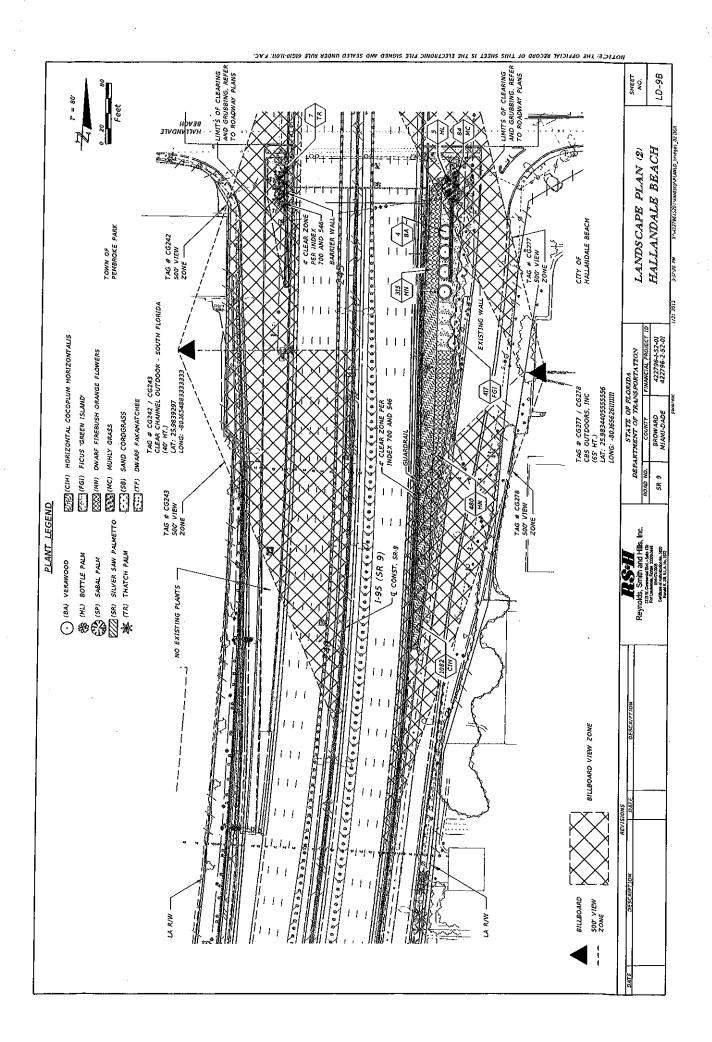
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BOTANICAL NAME			PREPARED SOIL LAYER					CIH CHRYSOBALANUS ICACA 'HORIZONTALIS'		FICUS MICROCARPAS GREEN ISLAND	U 4461 14 100004		MUHLENBERGIA CAPILLARIS	SPARTINA BAKERI		TRIPSACUM FLORIDAWA				BULNESIA ARBOREA		HYOPHORBE LAGENICAULIS		SABAL PALMETTO		SERENOA REPENS 'CINEREA'	THRINAX RADIATA								legeno: N= Natural form CM- CALPER, 0A= OVERALI, GAL- GALLON, C.T.= CLEAR TRUNK, GN= GREY WOOD, B. & B= BALLED AND BURLAPPED SHT= SHEET, STGG= STAGGERED, SPRD= SPREAD, O.C.= DN CENTER, Y= YES, N= NO, MAX= MAXIMUM, MAINT:= MANTAINED, HT= HEIGHT, RPG= ROOT PLUS GROWER	DESCRIPTION REVISIONS	_
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VO. SIZE				+			П	SMALL		SMALL	CMALL		SMALL	SMALL		SMALL		+		LARGE	+	LARGE	+	LARGE		LARGE	LARGE	-							SHEET, ST		
PAY ITEM NO.		11-1-2.91					580-1-1												580-1-2																SHT=	DATE	

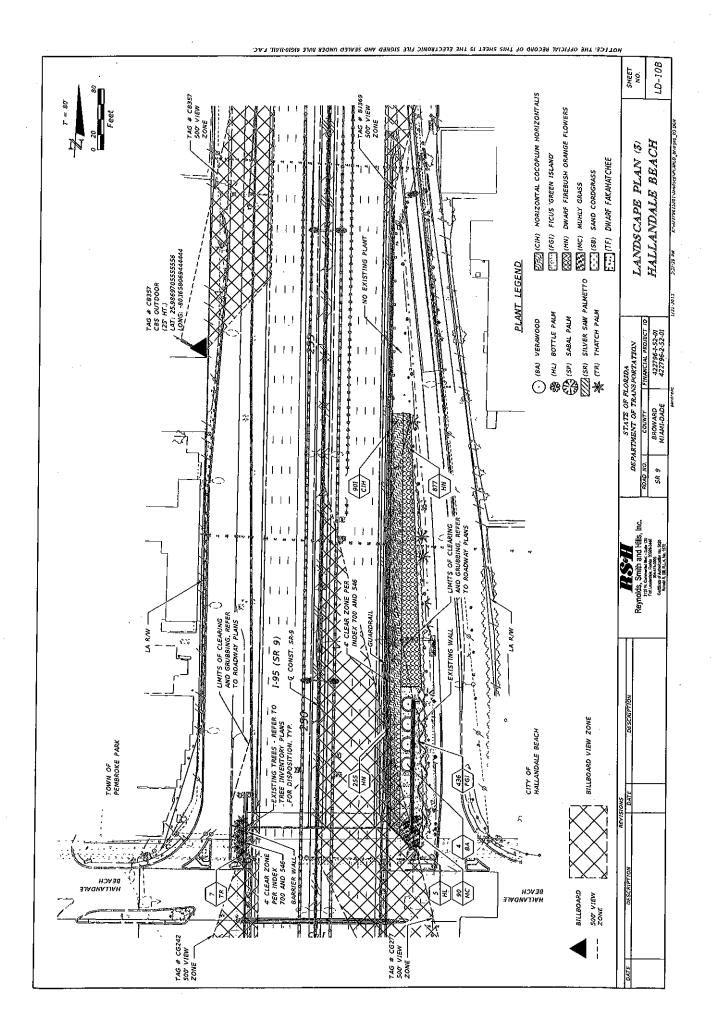
LD-6B SHEET NO. THONL.
T. FETTLIZER. SHALL BE FORMULATED FOR FLORIDA SOILS AND APPROPRIATE BALANCE OF MACCO. AND NICON. WITRIENTS FOR PLANS. CONTRACTORS STALL SUBMIT MANUFACTURES CUT SHEET WITH APPROPRIATE BATURATION RATES AND AN APPLICATION SCHEDULE SHALL BE SHECKIED DE WAUND SHALL BE MADE PROOF OF THE ESTABLISHNERT PERIOD. A FETTLA APPLICATION SHALL BE MADE PROOF TO THE ESTABLISHNERT PERIOD. A SHALL APPLICATION SHALL BE MADE PROOF TO THE ESTABLISHNERT PERIOD. A FINAL APPLICATION SHALL BE MADE PROOF TO THE STABLISHNERT PERIOD. A SHALL APPLICATION SHALL BE MADE PROOF TO THE STABLISHNERT PERIOD. A FINAL APPLICATION SHALL BE MADE PROOF TO THE STABLISHNERT PERIOD.
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3. LANDSCAPE GENERAL NOTES THITTAGES SHALL TAG AND LANDSCAPE ARCHITECT OF RECORD SHALL APPROVE ALL LARGE PAINS CONTRACTOR SHALL TAG AND LANDSCAPE ARCHITECT OF RECORD SHALL APPROVE ALL LARGE PAINS HIGH RESOLUTION PHOTOGRAPHS MAY BE SUBMITTED TO THE LANDSCAPE ARCHITECT OF RECORD HIGH RESOLUTION PHOTOGRAPHS MAY BE SUBMITTED TO THE LANDSCAPE ARCHITECT OF RECORD FOR APPROVAL FOR SHRUBS AND GOURD COVER MATERIALS. SCAPI JUAN PHOTOGRAPH APPROVED BY THE LANDSCAPE ARCHITECT OF RECOND SHALL BE THE MINIMUM STANDARD ACCEPTED FOR EACH PAINT SPECIES. THE PLANT PHOTOGRAPH SHALL SHOW THE ENTIRE PLANT AND HAVE A LEGIBLE VERTICAL STALE TO FOR THE DAILED TO THE MINIMUM STANDARD ACCEPTED FOR LEGIBLE VERTICAL SCALE TO SHALL BE THE MINIMUM STANDARD ACCEPTED FOR THE FOLLOWING THENS SHALL BE THE MINIMUM STANDARD ACCEPTED FOR THE FOLLOWING THENS SHALL BE THE MINIMUM STANDARD ACCEPTED FOR THE FOLLOWING THENS SHALL BE THE MINIMUM STANDARD ACCEPTED FOR THE FOLLOWING THENS SHALL BE THE MINIMUM STANDARD ACCEPTED FOR THE FOLLOWING THENS SHALL BE THE MINIMUM STANDARD ACCEPTED FOR THE FOLLOWING THENS SHALL BE SUPPLIED TO THE LANDSCAPE ARCHITECT OF RECORD FOR THE FOLLOWING THENS SHALL BE UPPLIED TO THE LANDSCAPE ARCHITECT OF RECORD FOR ALL LANDSCAPE BEDS SHALL RECEIVE A UNIFORMUT APPLED MULCH MATERIAL TO A MINIMUM THICKNESS OF 3° OVER THE ENTIRE THAT BED, FRAZET WITHIN & OF THE TRUNK PROTECTION (SE PLANTED TREES (MUTHIN SHAUB BEDS) SHALL RECEIVE A " MUCH RING, TAUNK PROTECTION (SE DETALL, MULCH TYPE TO BE FLORMULCH (MULCH AND SOIL COUNCLU CERTIFIED). THE CONTRACTOR SHALL ALSO APPLY A PREAMERGENT HERICIPE TO ALL PLANT BEDS PRIOR TO MULCH HING, (FOLLOW MANUT, RECOMMENDATIONS FOR ATRES AND METHODS OF APPLICATION). SPECIAL BED PREPARATION: SPECIAL BED PREPARATION: WITH APPROVED LAD CONPOST SHALL BE MULCH AND SOIL COUNCIL CERTIFIED. REFILL IBACKFILL) WITH APPROVED LADL CONPOST SHALL BE MULCH AND SOIL COUNCIL CERTIFIED. REATING BEDS, TREES AND PAMRS. MIX- 25% NEW TOPSCIL. 25% CONPOST: 30% OTHER LITTER. AND FREE OF TOPSCIL WINCH IS FERTILE. FULLEMENTION. AND OTHER EXTANGEOUS ON TOXIC WATTER TOPSCIL WINCH IS FERTILE. FULLEMENT LOAM. BULSH, WEEDS AND OTHER LITTER, AND FREE OF ROOTS. STONES LUBGR THAN 'S' IN ANY DIMENSION. AND OTHER EXTRANEOUS ON TOXIC WATTER ROOTS. STONES LUBGR THAN 'S' IN ANY DIMENSION. AND OTHER EXTRANEOUS ON TOXIC MATTER ROOTS. STONES LUBGR THAN 'S' IN ANY DIMENSION. AND OTHER EXTRANEOUS ON TOXIC MATTER ROOTS. STONES LUBGR THAN 'S' IN ANY DIMENSION. AND OTHER EXTRANEOUS ON TOXIC MATTER ROOTS. STONES LUBGR THAN 'S' IN ANY DIMENSION. AND OTHER EXANDS OF ACMITTER ORGANIC COMPOST SCREEMENT TO IZ' MULLS. DOIL TESTING STALL BE CONDUCTED BY AN APPROVED SOUTSESTING LABORATORY. THE CONTACTON BALL PROVIDE THE AUDOSCED ACMUTECT OF RECORD WITH THE RESULTS OF THE SOUL MAUSTS PRIOR TO ANY INSTALLATIONS THROUGHOUT THE PROJECT. PLUNTIME AND SOUL MAULTES HALL BE USED FOR ALL PROVOSED PLANTING MATERIAL. CONTRACTOR TO PROVIDE SCHEDULE OF VALUES AT PRE-CONSTRUCTION MEETING. BASELINE STATIONING IS SHOWN FOR REFERENCE ONLY. 5102 422796-1-52-01 STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION FINANCIAL PRO Dendrea BROWARD MIAMI-DADE COUNTY SUBMITTAL'S: A) CONTRAC ROAD NO. SR 9 **a** G ň ŭ 11 Ċ. Ķ Reymoids, Smith and Hills, Inc. 212.8. Comments Best - Sate To For Lowership Press Jacoback LANDSCAPING SHALL BE LOCATED SUCH THAT DRAINAGE DITCHES AND SWALES ARE NOT BLOCKED OR FLOWS IMPEDED. LANDSCAPING LOCATION SHALL ALSO CONSIDER MAINTENANCE ACCESS ALONG/ACROSS PROTTERS AND ANOIND STORM WATER MANAGEMENT FACILITIES. MAINTENANCE ACCESS SHOULD BE PROVIDED ANT THE TOP OF THE SLOPE AND BOTTOM OF THE SLOPE SO THAT MAINTENANCE FORCES MAY GAIN ACCESS TO SIDE SLOPES. provide as-built drawings of landscape after final acceptance and before the start of the Establishment period to foot maintenance. NELDDES ALL DEBOR, MATERIALS, EQUIPHENT AND INCIDENTIALS OF THE COMPLETE INSTALLATION OF PLANTS IN ACCOREMARC WITT PIRE GOVERNING SPECIFICATIONS, AND FEDT NOREX SAFE NACUUDING. BUT NALLUNTED TO, BED PREMARTION, PLANTS, ENDSIGN CONTROL, STAKING, TRUNK, PROTECTION, MUCCH, HAND WATERING, FERTULZER, PRE AND POST FARENGENT HENBICIDE APPLICATIONS, GUNANTEE AND HAND WATERING, EDMINGE STRALEINAMENT, PRINCIP TO REF CONTRACTOR SHALL RESTORE AND REPLACE ALL DAVAGED SOD WITH WEED FREE ARGENTINE BAHLA TO MEET ROUWNY FULL RESTORE AND REPLACE ALL DAVAGED SOD WILL BE PULD FOR UNDER THE SODDING PAY ITEM (NG. 570+12). ALL OTHER ARES OF EXISTING SOD THAT ARE DAMAGED BY THE CONTRACTOR DURING THE PERFORMANCE OF THIS WORK SHALL BE REPAIRED AT THE SOUTHACTORS SOLE EXPORTS. ALL PLANTING BEDS ON 23 (1:2) SLOPES SHALL INCLUDE THE USE OF WEED CONTROL AND PERMANENT MEDSION CONTROL FARRICS, ANCHORED OR TOED SO THAT THE STORMMATER CANNOT RUN UNDERNEATH THE MAT. UTILITY INFORMATION SHOWN IN THE DRAWINGS IS SCHEMATIC IN MATURE AND SHOULD BE CONSIDERED A GRAPHIC DEPICTION ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE LOCATION OF ALL UTILITIES PRIOR TO EXCAVATION. REFER TO ROADWAY PLANS FOR A ULTING OF ALL KNOWN UTILITY PRIORIDERS IN THE AREA. ANY PRUNING TO BE DONE ON EXISTING THEES TO REMAIN SHALL BE SUPERVISED BY A FLORIDA CERTIFIED ISA ARBORIST USING AMERICAN STANDARD INSTITUTE ANSI A300 STANDARDS CERTIFIED BY THE INTERATIONAL SOCIETY OF ARBORGULTURE (SIA). ANY CATEGORY ONE INVASIVES (IE. BRAZIUAN PEPDERS MELALEUCA UNSTRALLING FARLAR ACACIA, LEAD TREEJ FOUND WITHIN THE PROJECT LIMITS SHOULD BE REMOVED AS PART OF THE SITE WORK. WATER FORCE FROM WATER TRUCK SHALL NOT BE APPLIED IN A MANNER WHICH WOULD DAMAGE PLANTS. NOR IN A MANNER WHICH WOULD REMORE SOLL SAUCER SING OR MULCH AROUND EACH FLANT. AND DAMAGE TO PLANTS OR OTHER SURROUNDING ITEMS. EITHER BY WATER FORCE OR WATER TRUCK. IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE OR WATER TRUCK. Authentication No. 5520 See St. 1, 34, con-HESSH ANY IRRIGATION SYSTEMS WITIN LIMITS OF WORK THAT ARE DISTURBED DUE TO CLEARING AND GRUBBING, AND BRIDGE EXPANSION SHALL BE RESTORED TO WORKING CONDITIONS. SEE ROADWAY PLANS FOR MAINTENANCE OF TRAFFIC REQUIREMENTS DURING CONSTRUCTION MAINTENANCE, AND FOR ALLONABLE CONSTRUCTION TIME, OF WORKDAY RESTRICTIONS, AND MAINTENANCE AND INFORMATION. Conficers DESCRIPTION LANDSCAPE GENERAL NOTES: PAY ITEM NOTES: 580-1-1, 580-1-2: INCLUDES ALL N ŵ 2 m; 4 чů ŵ ĸ oń.

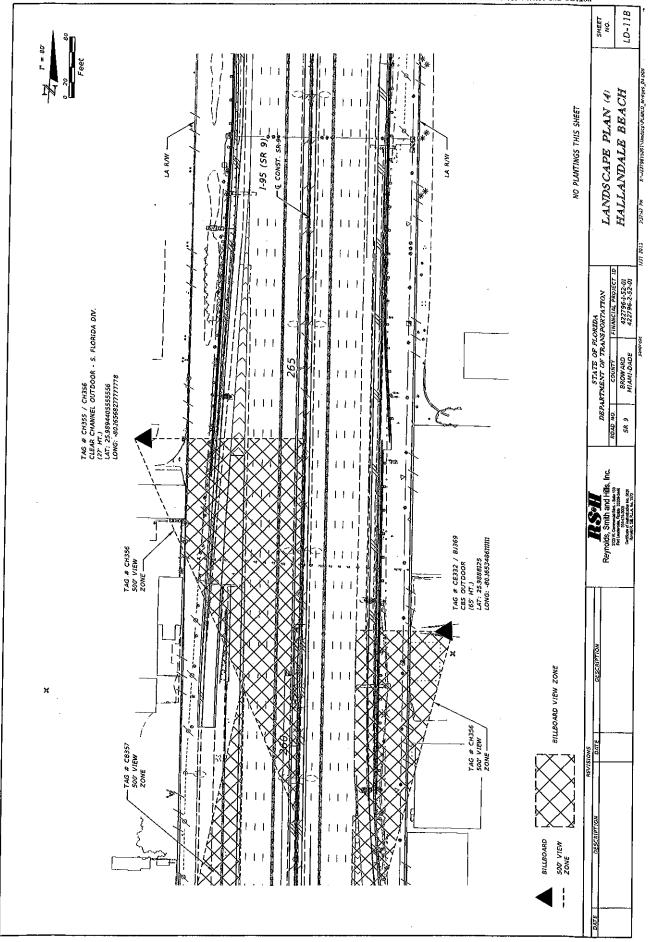
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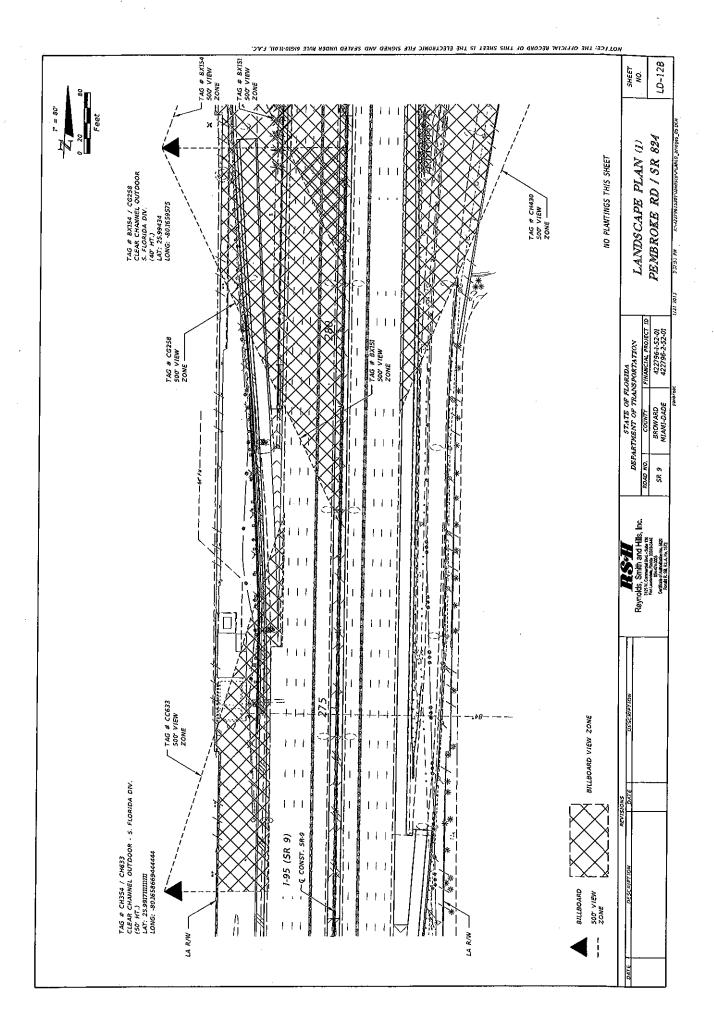


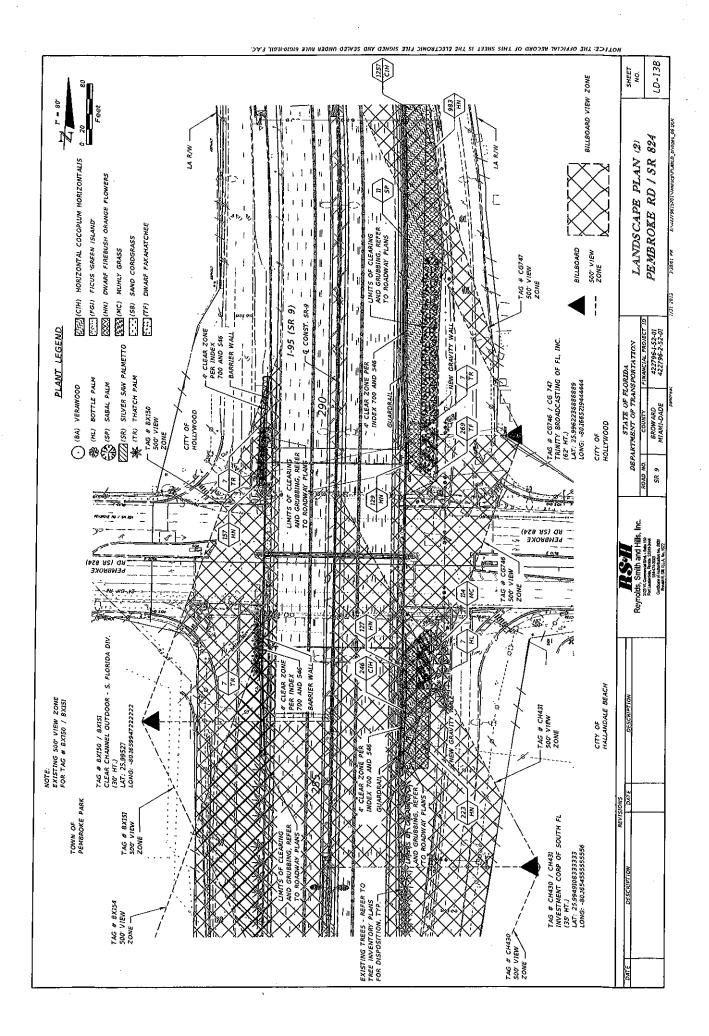


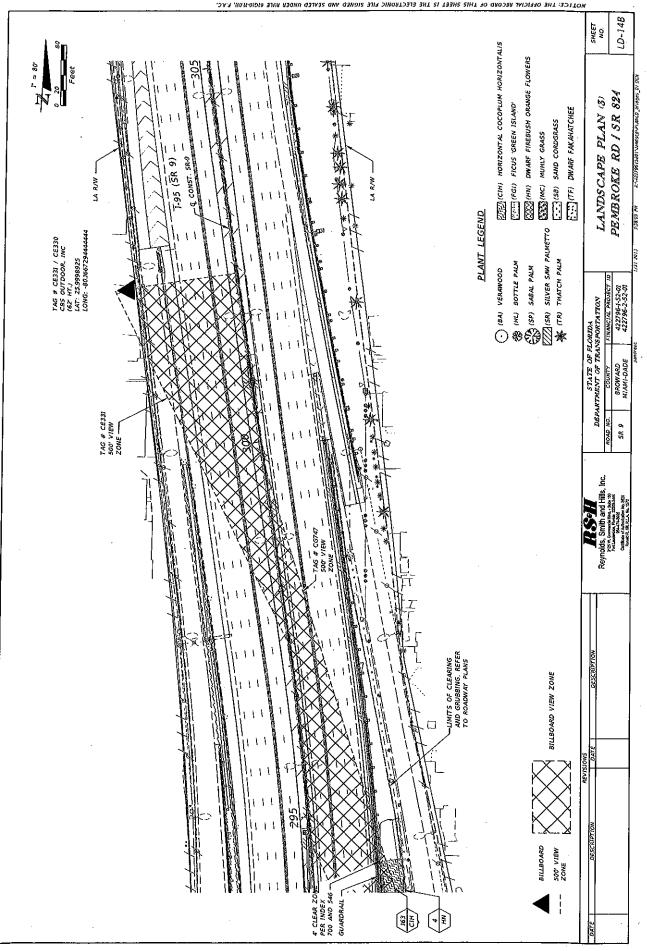


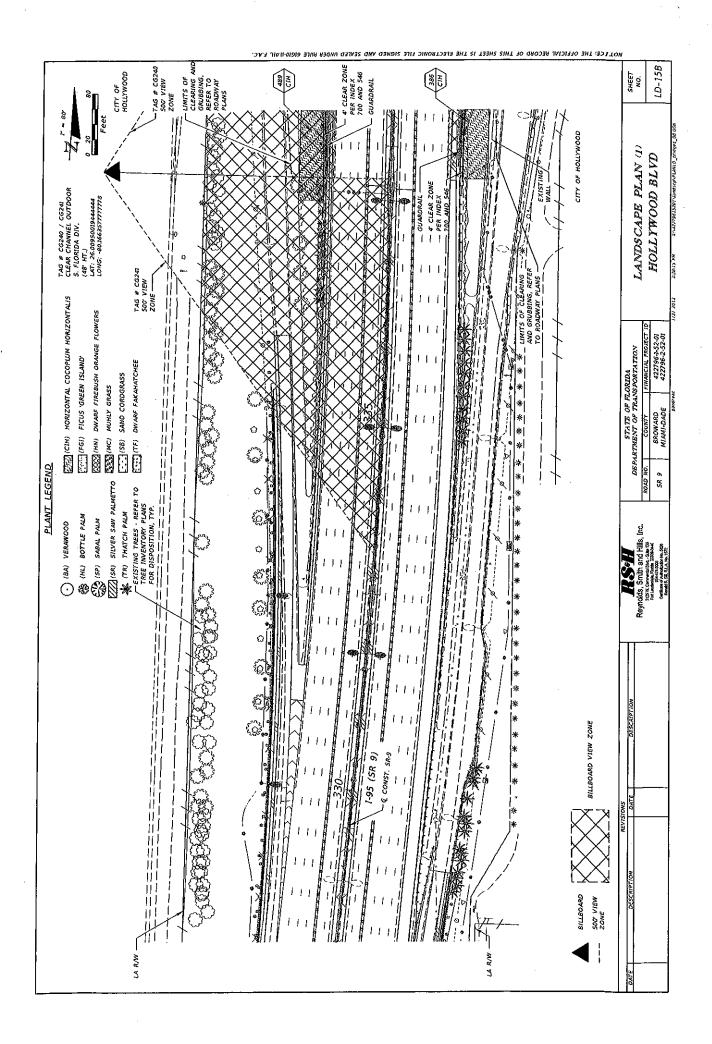


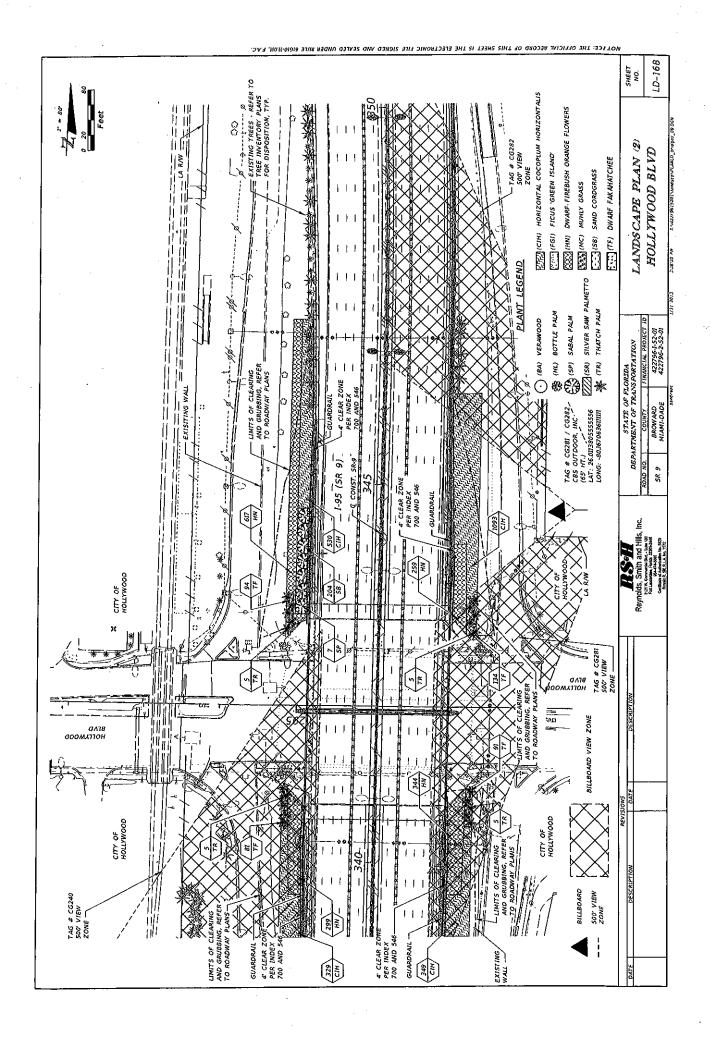


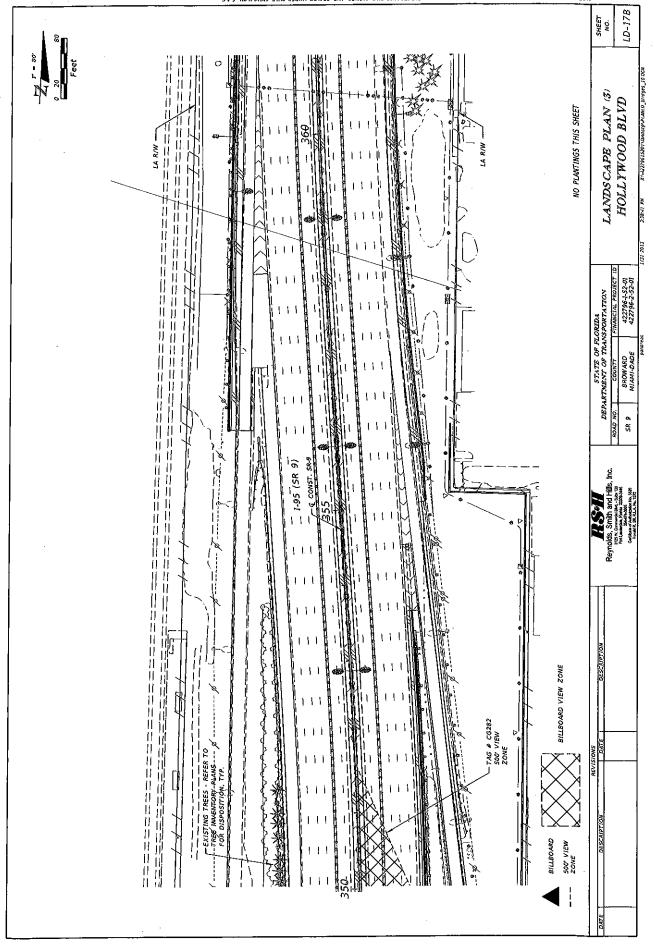




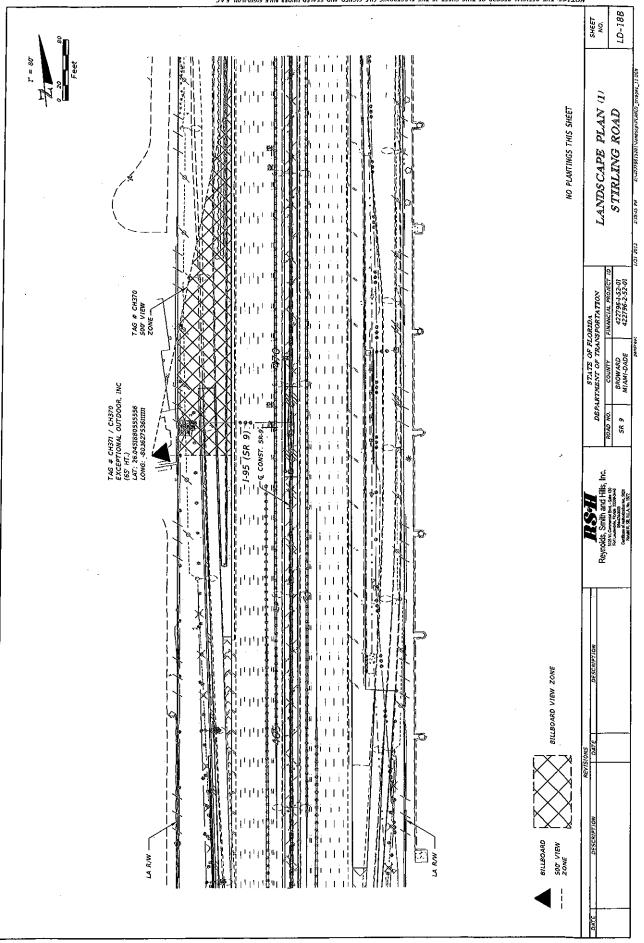




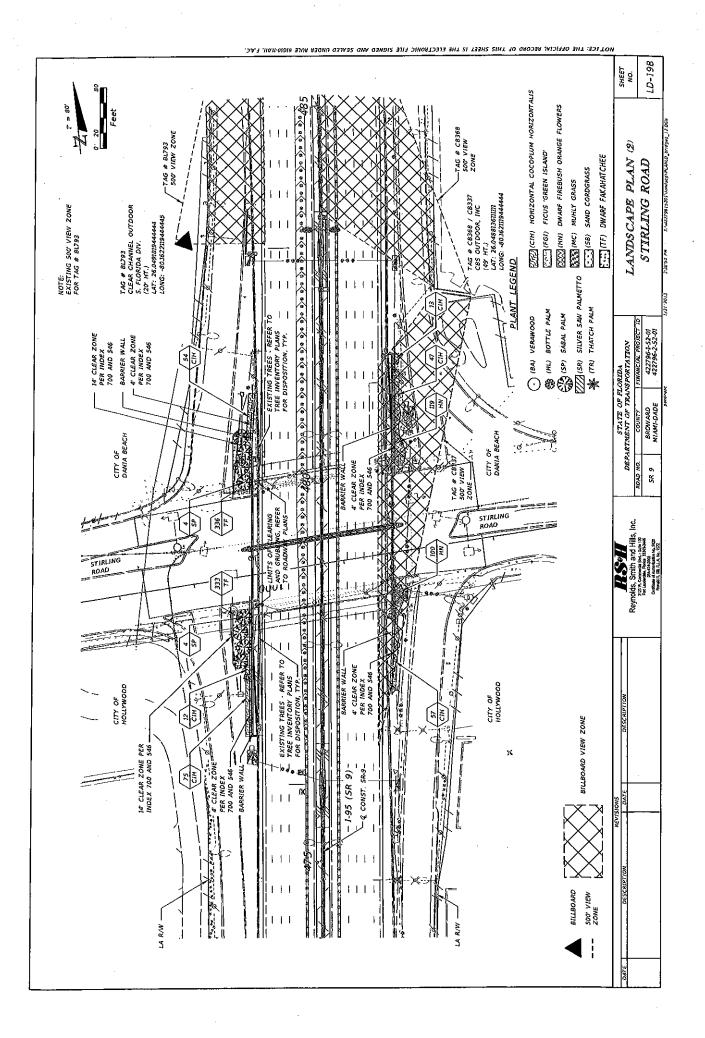


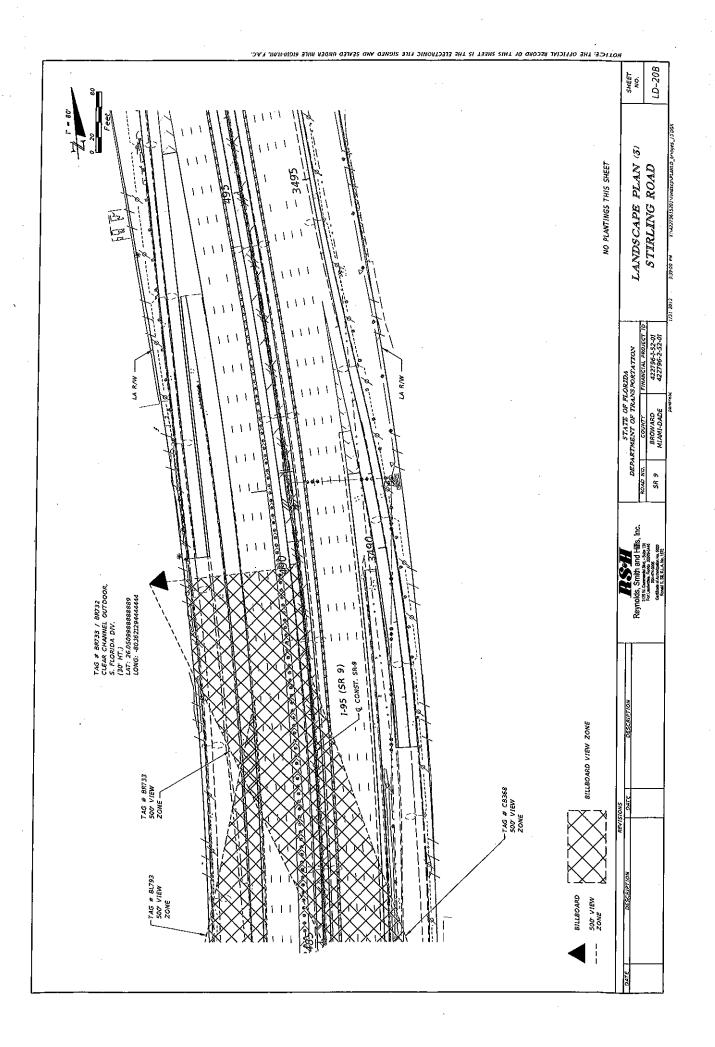


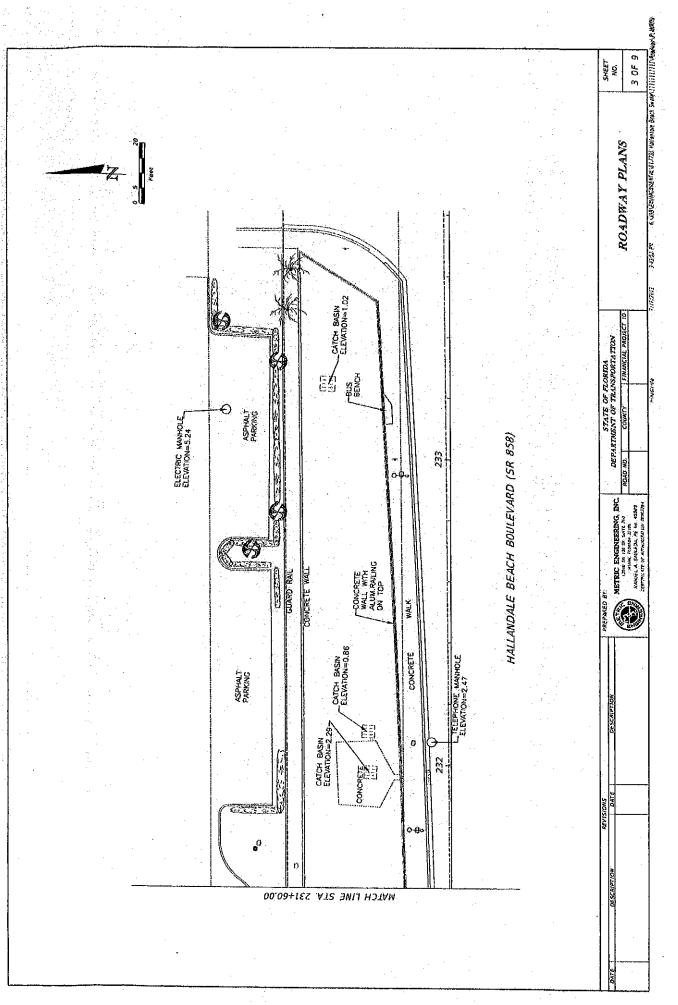
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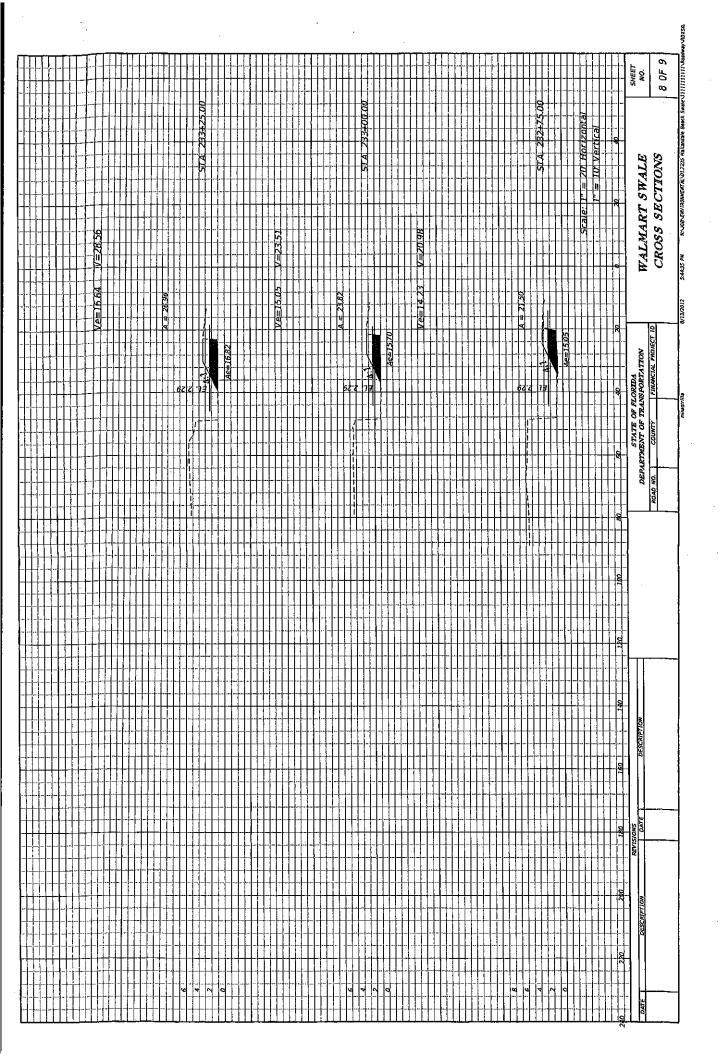


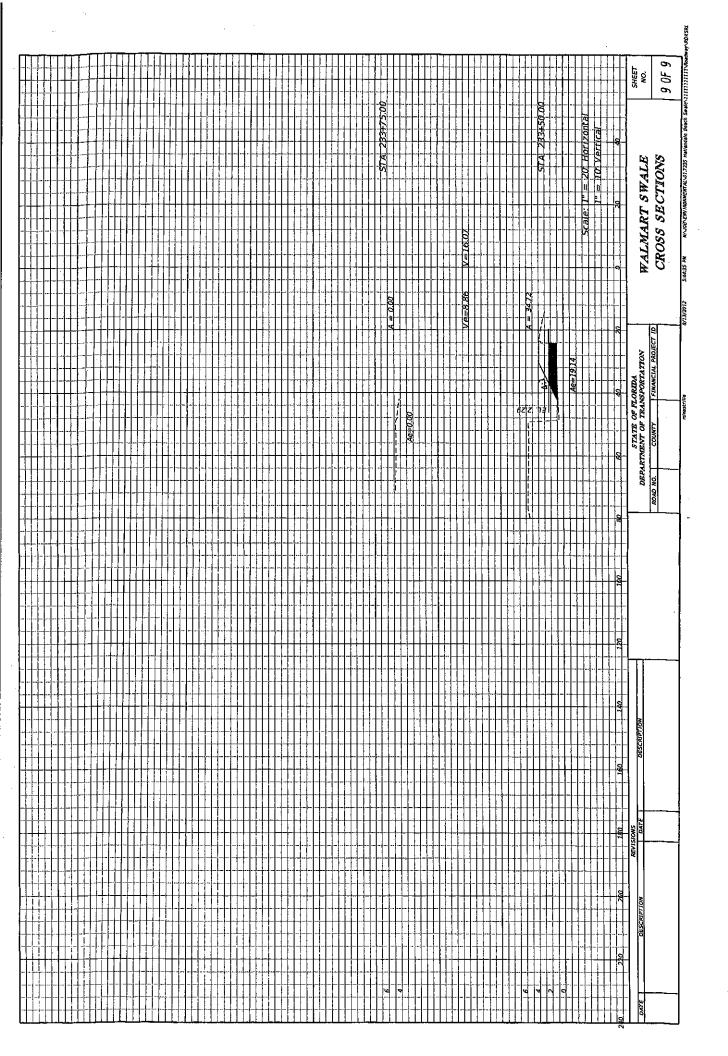
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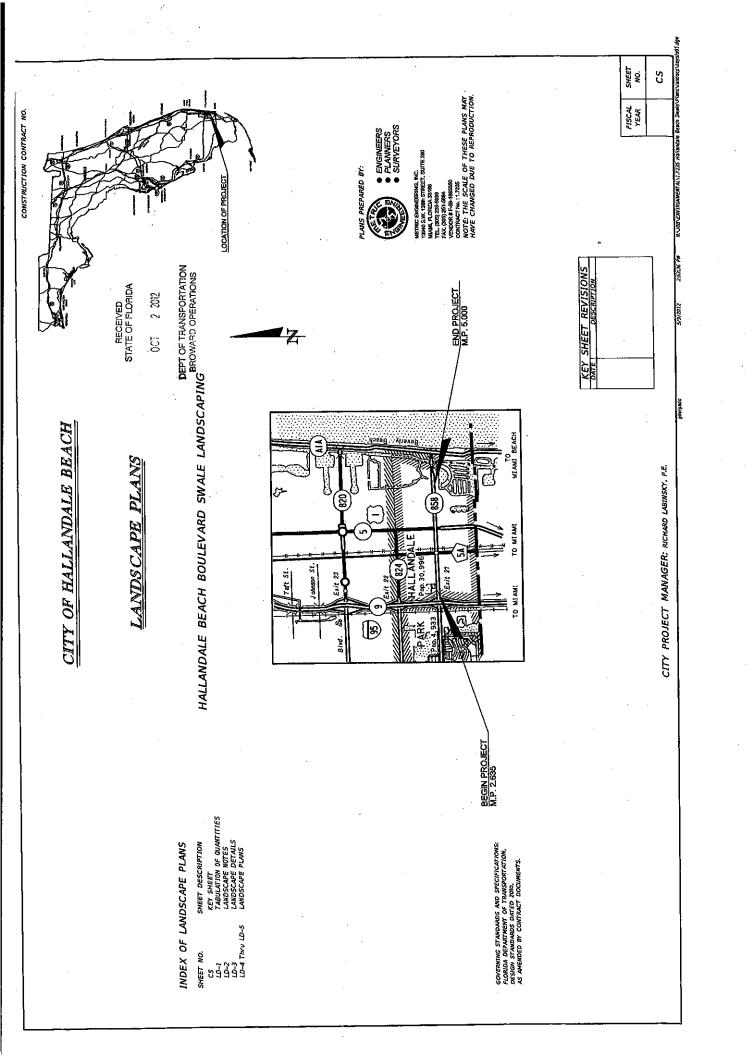
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OF QUANTITIES HI-UOB-CHWIRDHINENTALV12/255 02-23 FINANCIAL PROJECT ID BROWARD COUNTY ROAD NO.

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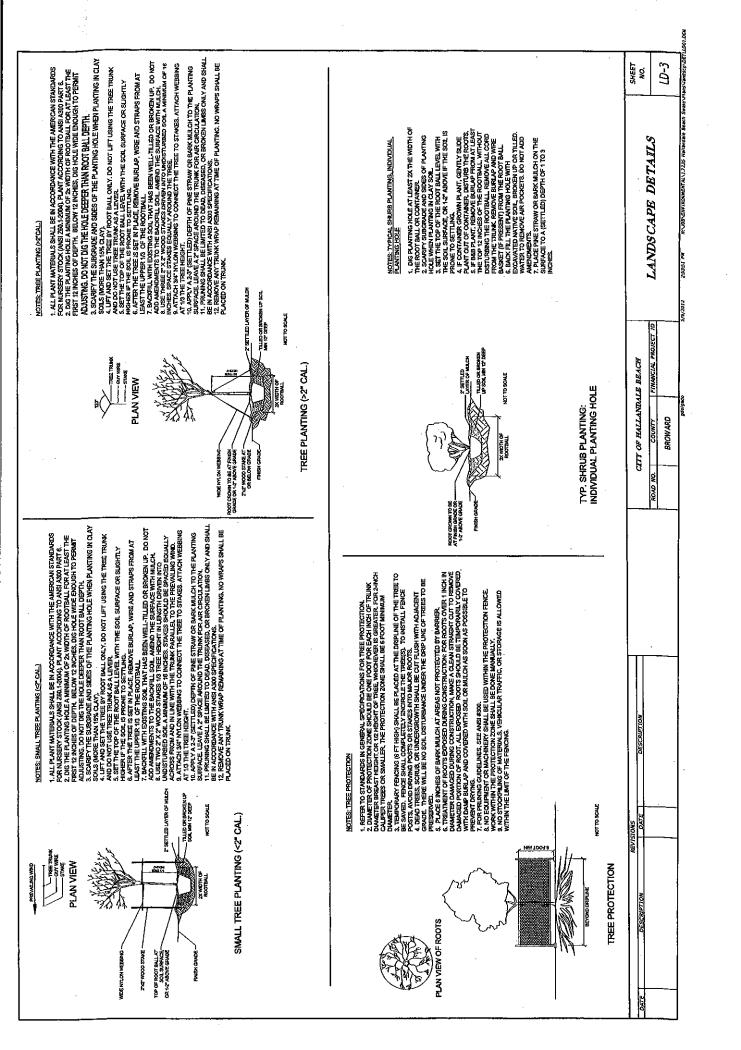
1.1. Plant Deeks to be treated with pre-emergent merolocde prior planting. 1.3. Hill tree and paim staking and support shall be removed one after installation. 1.4. No fertilizer shall be applied to newly planted trees and 15. All landscepe material shall be thoroughly watered at the planting, no dry planting permitted. 1.5. Landscepe contractor shall be responsible for providing to water from the guy and/or planting to the planting t	Ie	palms. time of mporary			ч о де в в о	A	SHEET NO.	LD-2
a city's 12. erial. 13. t date to after ted from 14. shall be 16. on the vater zone is opera is opera is opera is opera is opera is opera tort to 18. ards to 119. etails 24 in d arrea tion of allone tion of allone arread trumped arread d arread trumped arread d arread trumped arread trumped arread trumped arrea	d with pre-emergent herbicide prior to ng and support shall be removed one ye	to newly planted trees an thoroughly watered at th esponsible for providing the irrigation system is	ic straps shall be flagged with overed by sod shall be covered by um radius of 24 inches (48 inch	d all real of c* incires (10 incires) and palms is be used.	teas shall be excavated down to a deptl and back filled with clean debris-free te-used for backfilling if debris is sufficient or soil is augmented with shall be restricted from the landscal ckfill is complete. Il be finish graded such that they art surrounding paved surfaces so as not for into landscaped areas and to allow for	to be conducted per Florida Departmeni urd Index 611.		2107201 - 222542 - MA
a a representative of the City's plandscaping activities netallation of plant material. /s prior to desired start date to remain are to be separated from netruction area by tree tree protection fencing shall be cection zone as depicted on the (s) if a tree protection zone is or construction access is a zone. med to ANSI A-300 standards to read prior to removal or tact the City to obtain permit ify Sunshine One Call of Florida, 2 full business days prior to sponsible for avoiding damage to ing specifications and details partment of Transportation Design or specifications must be coject Manager prior to use. this landscape plan shall be this landscape plan shall be this landscape plan shall be ified in the current edition of c's Grades and Standards for ial shall be rejected and rial are to be considered is warranted by the landscape me year. The warrantee period plants by the City's Project	 Plant beds to be treate planting. All tree and palm staki 		<u>e</u> <u>e</u> <u>e</u>	 b. A mutch tire with a mini- diameter), is required aroun c. Cypress mulch shall be d. No mulch shall be place trunk of a tree or balm. 	1 1 6 8 4 5 8 4	21. Maintenance of Traffic Transportation Design Standa	CITT OF HALLANDA	BROWARD gaeigue
	A pre-construction meeting with a representative of the City's oct Manager is required prior to landscaping activities uding removal of trees and/or installation of plant material. 954-458-3251 a minimum of 5 days prior to desired start date to	remain are to be separated from struction area by tree tree protection fencing shall be ection zone as depicted on the	a tree protection struction access i ANSI A-300 stands or to removal or e City to obtain I	fy Sunshine One Call of Florida, 2 full business days prior to ponsible for avoiding damage to	ng specifications and details artment of Transportation Design or specifications must be oject Manager prior to use. this landscape plan shall be fied in the current edition of e's Grades and Standards for al shall be rejected and	ial are to be considered differ between the planting all take precedence warranted by the landscape me year. The warrantee period plants by the City's Project	DESCRIPTION	

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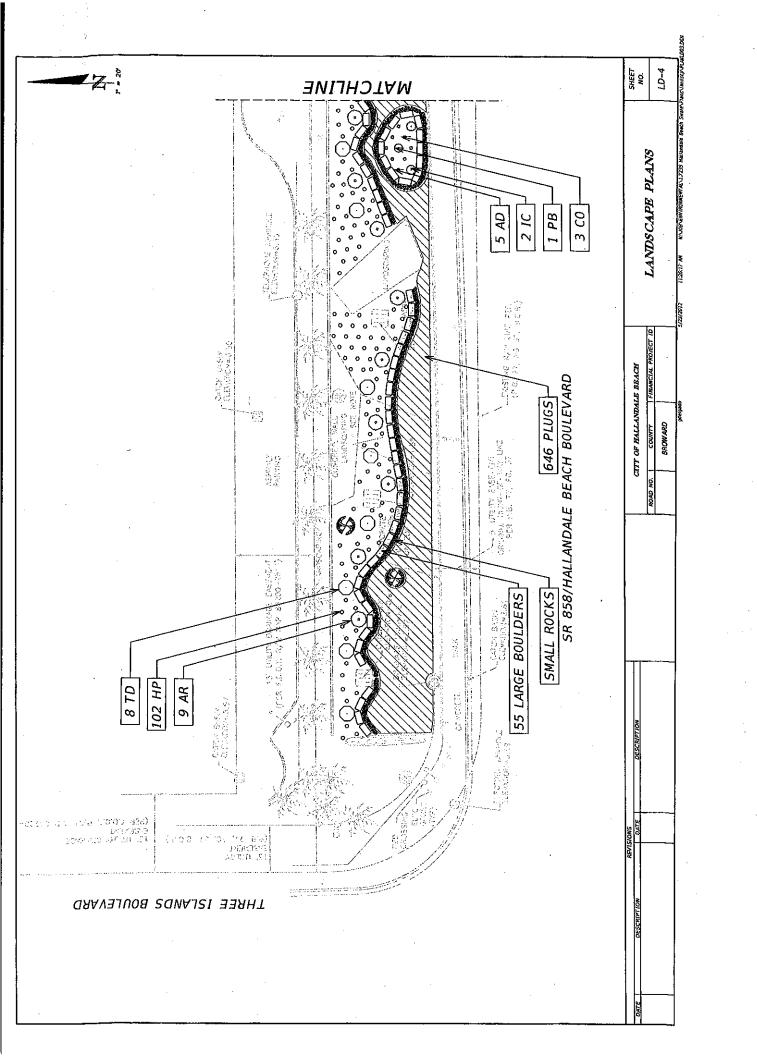
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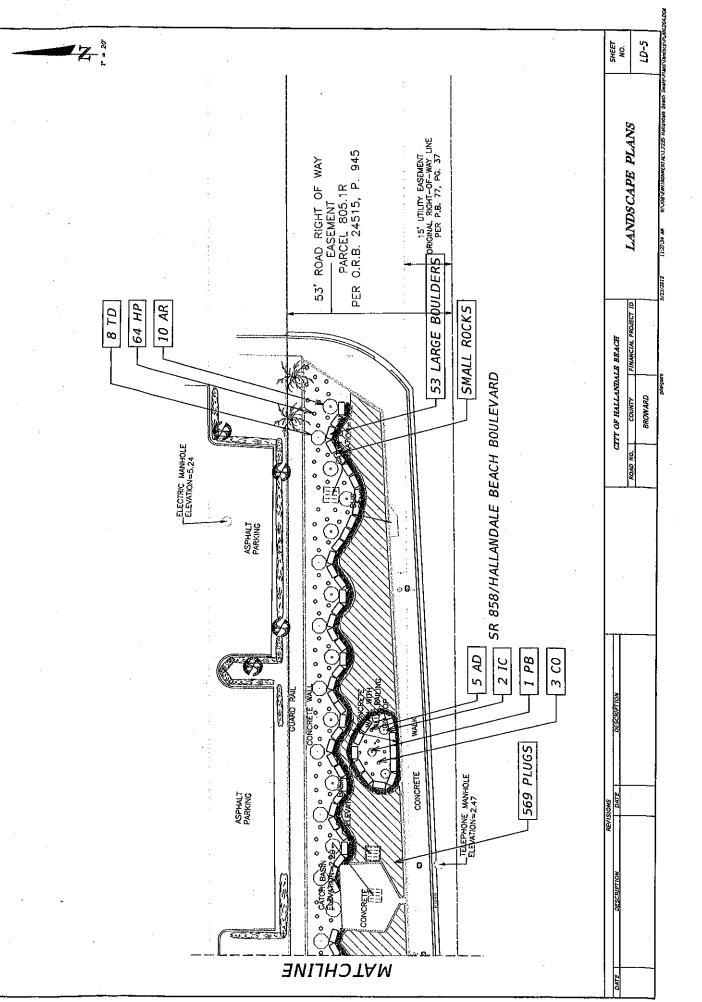
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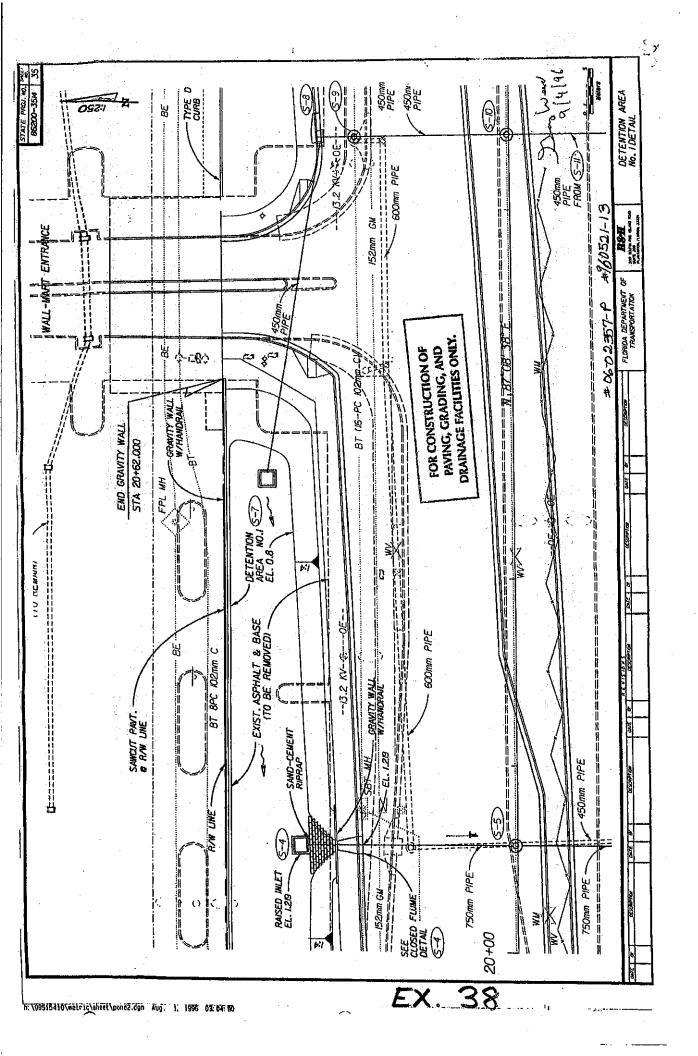


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R/W	FOR CONSTRUCTION OF	DRAINAGE FACILITIES ONLY.							C-6	CONST INLET TYPE J-6 W/	FL EL - DES (N) MLET BOTTON EL (-1.25	<pre></pre>	2		DRIVE				PE-			E-20 9/11/96	20 25 SCALE	HON IS IS	-0
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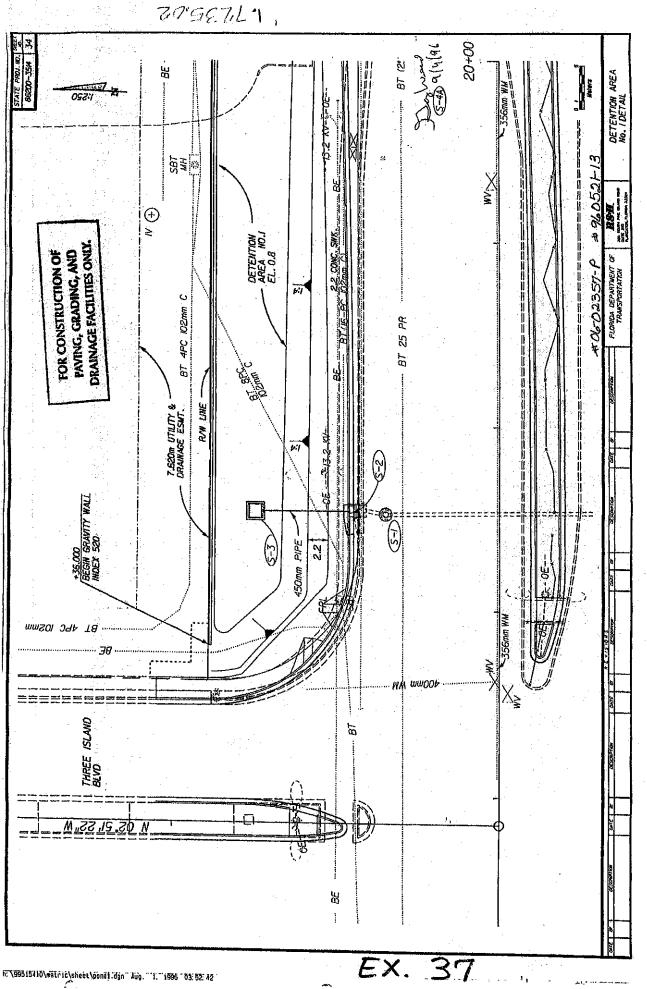
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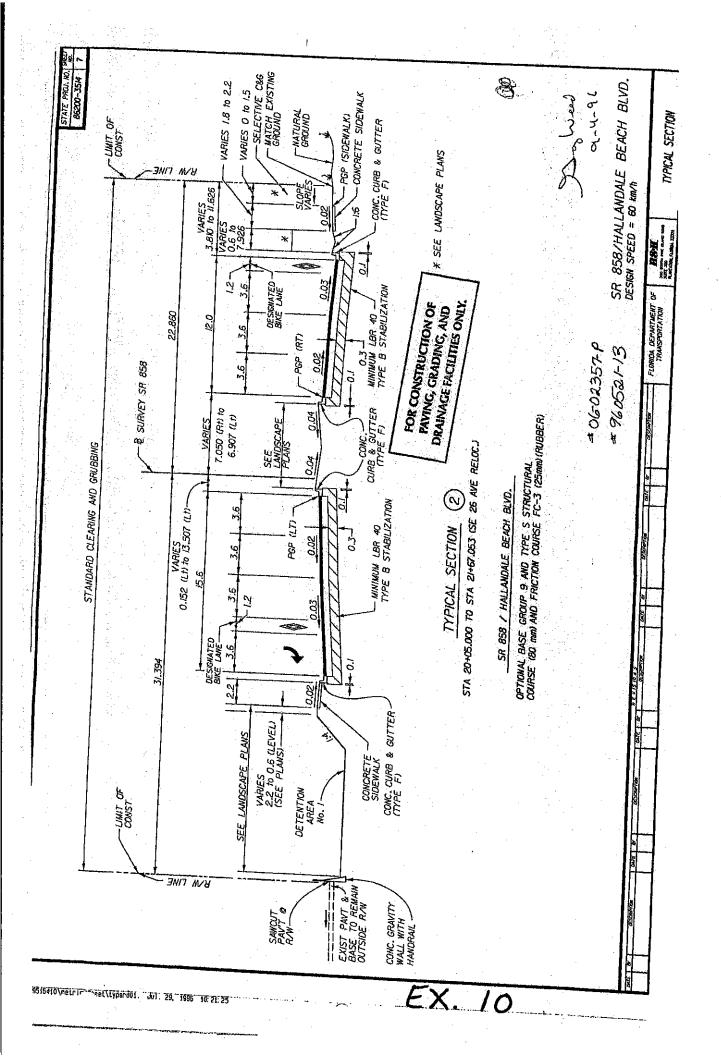
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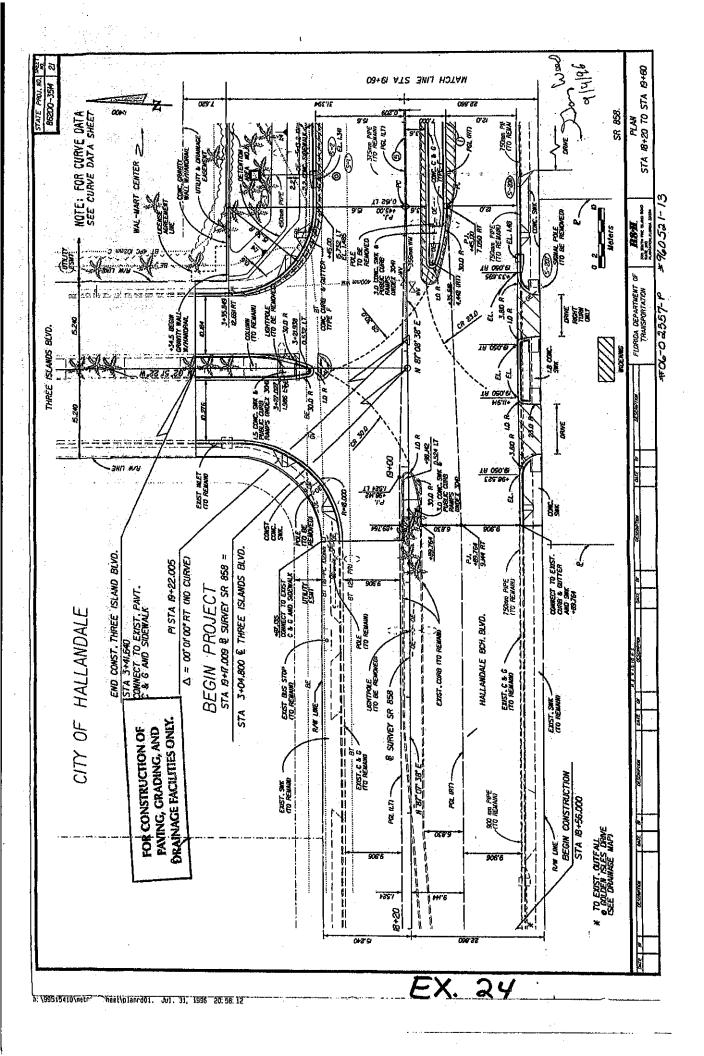
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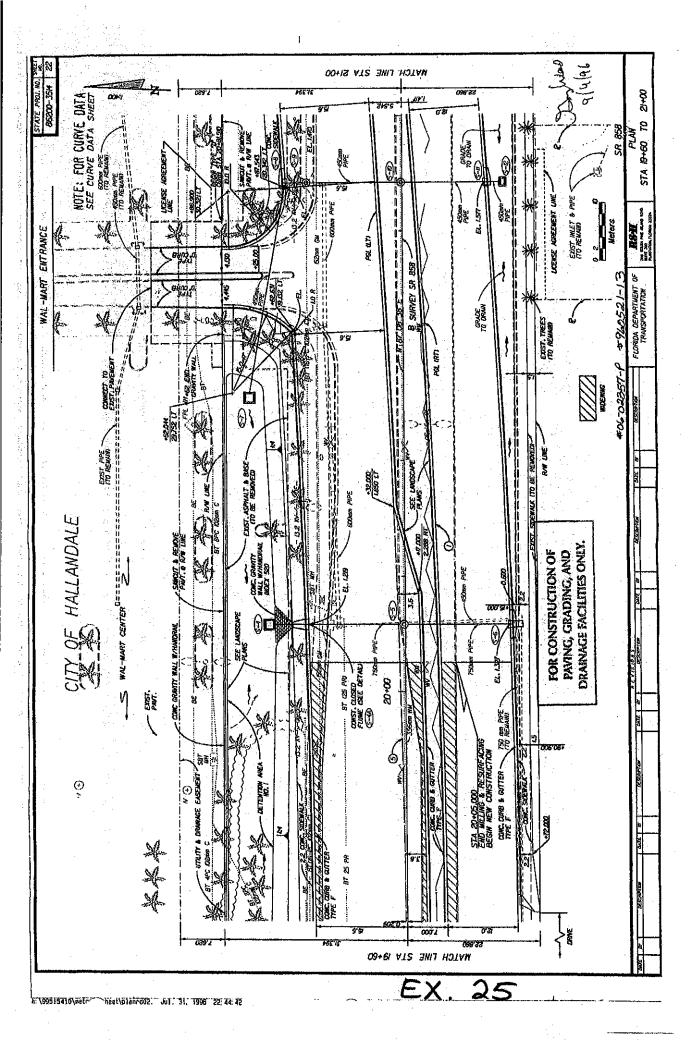
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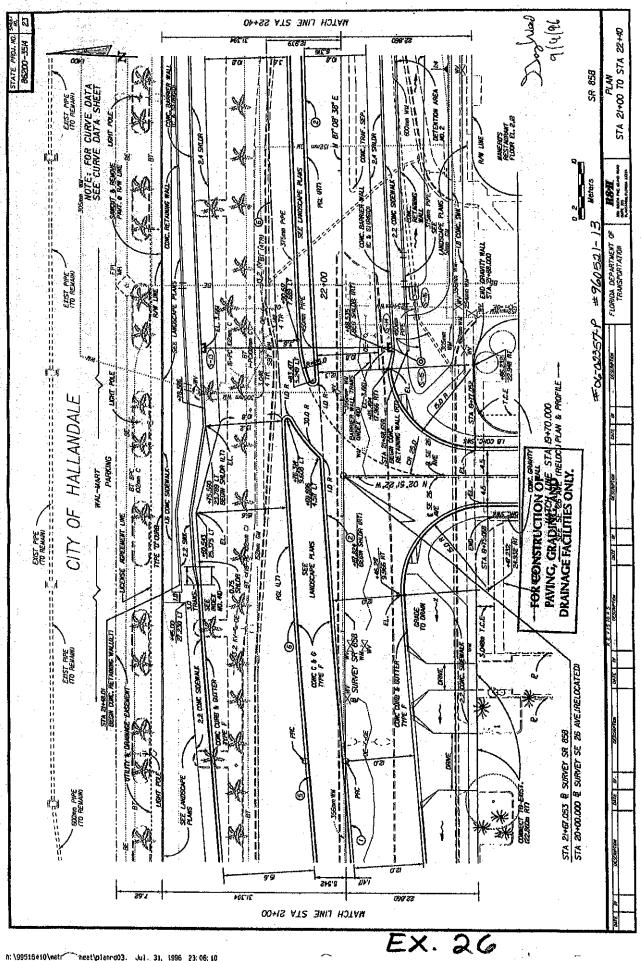
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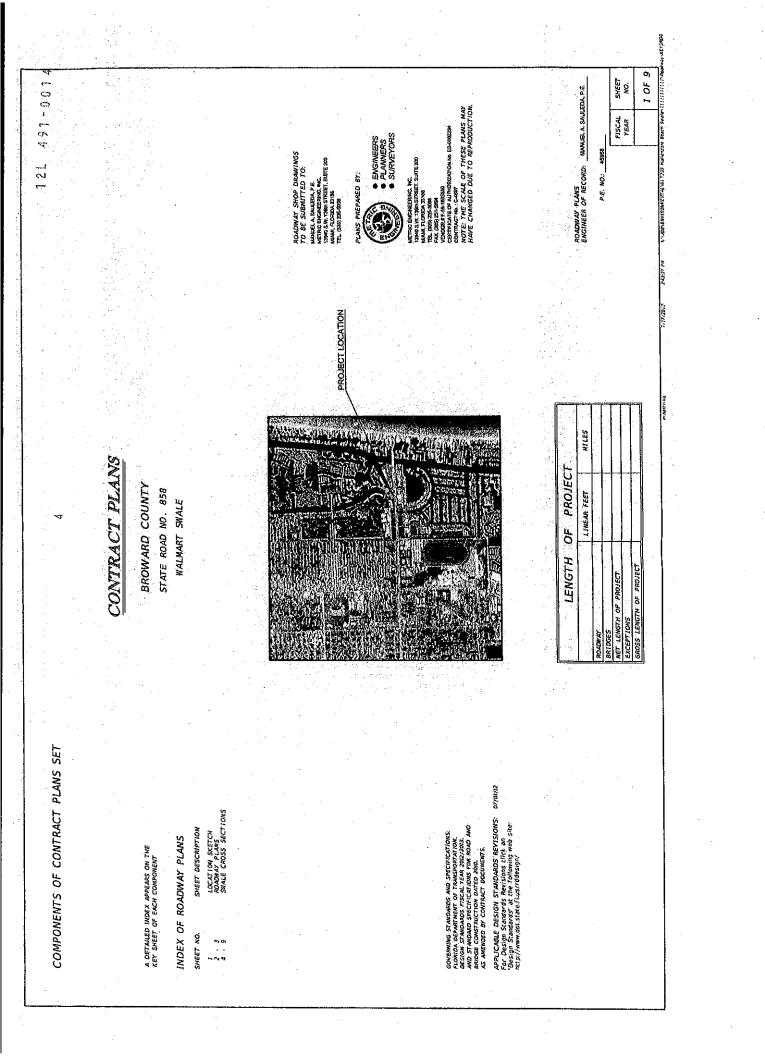


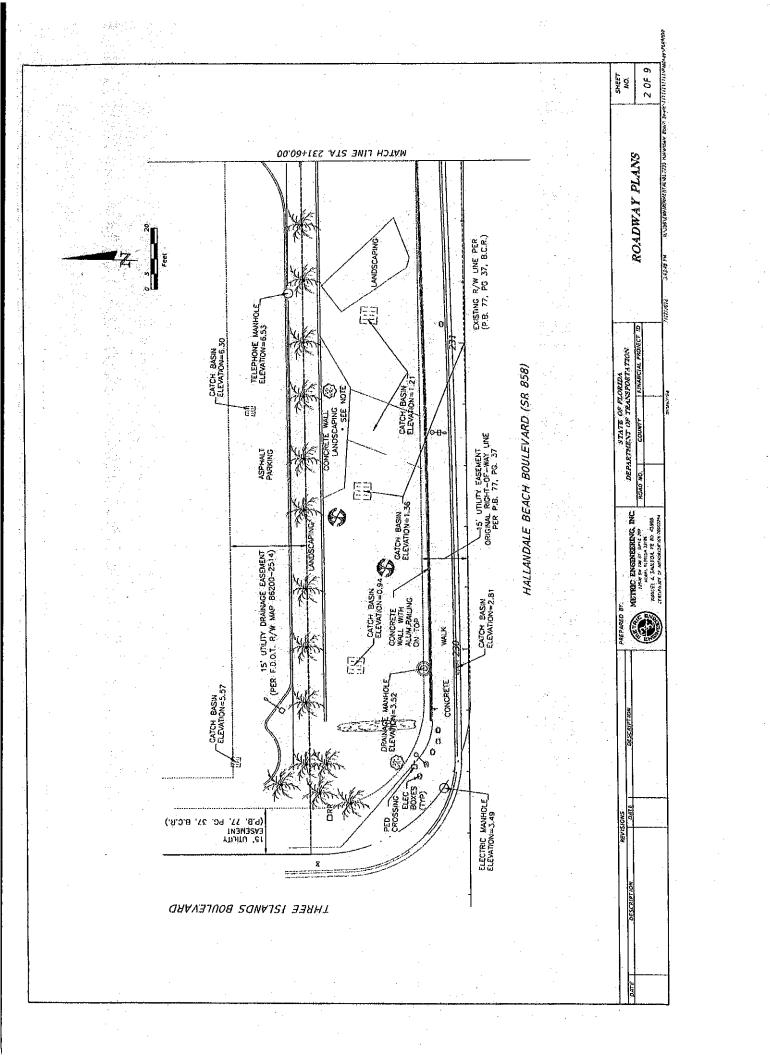






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SECTION No.(s): S.R. No.(s): COUNTY: 86010, 86018, 86030, 86070 & 86200 A1A, 5, 9, 824, 858 Broward

EXHIBIT E

LANDSCAPE MAINTENANCE PLAN

See Attached

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MAINTENANCE PLAN Landscape Improvements

City of Hallandale Beach

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 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.

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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 must be maintained to prevent potential roadway and pedestrian hazards, all palms are to be kept fruit free. 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 plans (See Exhibit B.) and see Part II. Specific Requirements and Recommendations for 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 at a minimum, 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 tree grates and specialty surfacing (if applicable) shall be maintained in such a manner as to prevent any potential tripping hazards and protect damage to the pavers and tree grates. 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.

Hardscape (Non-Standard Travelway Surfacing):

It shall be the responsibility of the AGENCY to restore an unacceptable ride condition of the roadway, including asphalt pavement (if applicable), caused or contributed by the installation or failure of non-standard surfacing, and/or the header curb, on the Department of Transportation right-of-way within the limits of this Agreement. Pavement restoration areas or "patches" will have a minimum length of 10-ft, measured from the edge of the header curb, and a width to cover full lanes for each lane affected by the restoration.

Pavement restoration will be performed in accordance with the most current edition of the FDOT Standard Specifications for Road and Bridge Construction, and the FDOT Design Standards for Design, Construction, Maintenance and Utility Operations on the State Highway System.

It shall be the responsibility of the AGENCY to maintain all signs located within a non-standard surfacing area. Such maintenance to be provided by the AGENCY shall include repair and replacement of the sign panel, post, and base.

Hardscape (Landscape Accent Lighting)

Landscape accent lighting shall be maintained in such a manner as to prolong the life of the lighting fixture and prevent potential safety hazards. If the lighting fixtures and their system become damaged, they shall be replaced with the same type and specification as the approved plan. Landscape lighting shall meet requirements for the sea turtle nesting and hatching.

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.

Vegetation Management at Outdoor Advertising (ODA)

To avoid conflicts with permitted outdoor advertising, please reference the State of Florida website regarding the vegetation management of outdoor advertising. This website provides a portal to search the FDOT Outdoor Advertising Inventory Management System Database. The database contains an inventory of outdoor advertising structures, permits and other related information maintained by the Department.

Also, reference the *Florida Highway Beautification Program* website link for "*Vegetation Management at ODA signs*" "Florida Statutes" and "Florida Administrative Code" related to vegetation management at outdoor advertising sign, permit applications for vegetation management and determining mitigation value of roadside vegetation.

II. Specific Project Site Maintenance Requirements and Recommendations:

Superseded agreements' Maintenance Plans and any specific project site maintenance requirements continue to apply.

REFERENCES Revised 12/20/12

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/2010ADAstandards_index.htm

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 <u>www.isa-arbor.com</u>

Florida Department of Agriculture and Consumer Services, Division of Plant Industry, *Florida Grades and Standards for Nursery Plants*, available for purchase <u>http://www.doacs.state.fl.us/pi/pubs.html</u>

Florida Department of Community Affairs (DCA), Florida Board of Building Codes & Standards, 2010 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/DS/13/IDx/00544.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/DS/13/IDx/00546.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/DS/13/IDx/00600.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/DS/13/IDx/00700.pdf

Florida Department of Transportation, FDOT Plans Preparation Manual (PPM) Vol. I Chapter 2.11 Horizontal Clearance Table 2.11.5 Horizontal Clearance to Trees Table 2.11.11 Recoverable Terrain http://www.dot.state.fl.us/rddesign/PPMManual/2012/Volume1/Chap02.pdf

Florida Department of Transportation, FDOT Standard Specifications for Road and Bridge Construction, Section 580 Landscape Installation http://www.dot.state.fl.us/specificationsoffice/Implemented/SpecBooks/2013/Files/580-2013.pdf

Florida Department of Transportation, Landscape Architecture Website www.MyFloridaBeautiful.com

Page 22 of 27

Florida Department of Transportation, *Maintenance Rating Program Handbook* <u>http://www.dot.state.fl.us/statemaintenanceoffice/MRPHandbook2011.pdf</u>

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

Florida Exotic Pest Plant Council Invasive Plant Lists http://www.fleppc.org/list/list.htm

Florida Irrigation Society http://www.fisstate.org

Florida Power and Light (FPL), *Plant the Right Tree in the Right Place* <u>http://www.fpl.com/residential/trees/right_tree_right_place.shtml</u>

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

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

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

UF IFAS: Selecting Tropical and Subtropical Tree Species for Wind Resistance <u>http://edis.ifas.ufl.edu/pdffiles/FR/FR17500.pdf</u>

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

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SECTION No.(s): S.R. No.(s): COUNTY: 86010, 86018, 86030, 86070 & 86200 A1A, 5, 9, 824, 858 Broward

EXHIBIT F

PENDING DEPARTMENT PROJECT(S) ESTIMATE

State Road 9 (I-95) and State Road 858 (Hallandale Beach Boulevard) Interchange southeast and northeast quadrants \$59,892.50 See Attached

State Road 9 (I-95) and State Road 824 (Pembroke Road) Interchange southeast quadrant \$22,505.00

See Attached

CITY OF HALLANDALE BEACH Plan Sheets 9B - 10B

CITY OF HALLANDALE BEACH Plan Sheet 13B

CITY OF HALLANDALE BEACH 1-95 @ Pembroke Road 422796-1-52-01 30-Jan-13					
OVERALLL LANDSCAPE COST ESTIMATE	UNIT COST		QUANTITY	TOTAL COST	SPECIFICATION
*PALMS					
BOTTLE PALM	\$1,000.00	EA	7	\$7,000.00	10' Overall HT., Matched, Full, Straight
*SHRUBS					
DWARF FIREBUSH	\$7.50	EA	350	\$2,625.00	3 Gallon, 24"x18", Full, 3' On Center
COCOPLUM HORIZONTAL	\$8.00	Ē	246	\$1,968.00	3 Gallon, 10"x10", Full, 3' On Center
MUHLY GRASS	\$8.00	E	114	\$912.00	3 Gallon, 24"x18", Full, 3.5' On Center
IRRIGATION					
MODIFICATIONS	\$10,000.00	rs	-	\$10,000.00	Modify / Repair Existing Irrigation
TOTAL OVERALL COST				\$22,505.00	

SECTION No.(s): S.R. No.(s): COUNTY: 86010, 86018, 86030, 86070 & 86200 A1A, 5, 9, 824, 858 Broward

EXHIBIT G

PATTERNED PAVEMENT INSTALLATION (When Applicable)

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

- 1. Prior to acceptance by the DEPARTMENT, all lanes for each of the stamped asphalt crossings projects shall be tested for friction in accordance with ASTM E 274-06. All costs for friction testing will be the responsibility of the AGENCY. The initial friction resistance shall be at least 35 obtained at 40 mph with a ribbed test tire (FN40R) or equivalent. Failure to achieve this minimum resistance shall require all deficient crosswalk areas to be removed to their full extent (lane-by-lane) and replaced with the same product installed initially. If more than 50% of the lanes in the intersection require replacement, the entire intersection installation may be reconstructed with a different product on the Qualified Products List (QPL). All lanes receiving new installations shall again be friction tested within 60-90 days of their acceptance by the local AGENCY. The initial friction resistance of each new installation shall be at least 35 (FN40R) or equivalent. Failure to achieve this minimum resistance shall require all deficient areas be removed to their full extent (lane-by-lane) and replaced with the same product installed initially. If more than 50% of the lanes in the intersection resistance shall require all deficient areas be removed to their full extent (lane-by-lane) and replaced with the same product installed initially. If more than 50% of the lanes in the intersection require replacement, the entire intersection installation may be reconstructed with a different product on the DEPARTMENT 'S Qualified Products List (QPL), or replaced with conventional pavement.
- The results of all friction tests and condition surveys shall be sent to the Operations Engineer at the local FDOT District Four Operations Center located at Broward Operations, 5548 NW 9th Avenue, Ft. Lauderdale, FL 33309 (954) 776-4300, with a cover letter either certifying that the crosswalks comply with the above stated requirements; or what remedial action will be taken to restore the friction and/or integrity of the crosswalk area.
- 2. When remedial action is required in accordance with the above requirements, the local AGENCY at its own expense shall complete all necessary repairs within 90 days of the date the deficiency was identified.
- 3. Should the local AGENCY fail to satisfactorily perform any required remedial work or testing in accordance with this agreement, the DEPARTMENT reserves the right to replace the patterned pavement with conventional pavement and bill the local AGENCY for this cost. No more than two full stamped asphalt pavement depth repairs shall be made to an area without first resurfacing the pavement to its full depth.

SECTION No.(s): S.R. No.(s): COUNTY: 86010, 86018, 86030, 86070 & 86200 A1A, 5, 9, 824, 858 Broward

EXHIBIT H

PATTERNED PAVEMENT MAINTENANCE (If Applicable)

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

"Maintenance" of all patterned pavement crosswalks in these Agreements shall be defined, as a minimum, to include its frictional characteristics and integrity as follows:

1. Within 60 days of project acceptance by the Department, all lanes of each patterned crosswalk shall be evaluated for surface friction. The friction test shall be conducted using either a locked wheel tester in accordance with *FM 5-592 (Florida Test Method for Friction Measuring Protocol for Patterned Pavements)* or Dynamic Friction Tester in accordance with *ASTM E1911. All costs for friction testing are the responsibility of the AGENCY.*

The initial friction resistance shall be at least 35 obtained at 40 mph with a ribbed tire test (FN40R) or equivalent (FM 5-592 attached). Failure to achieve this minimum resistance shall require all deficient crosswalk areas to be removed to their full extent (land-by-land) and replaced with the same product installed initially. The AGENCY is responsible for all costs associated with the removal and replacement of the crosswalk. If the Department determines that more than 50% of the lanes in the intersection require replacement, the entire intersection installation may be reconstructed with a different product on the Qualified Products List (QPL) or replaced with conventional pavement.

- 2. Approximately one year after project acceptance and every two years thereafter and for the life of the adjacent pavement, only the outside traffic lane areas of each patterned crosswalk shall be tested for friction resistance in accordance with ASTM E274 or ASTME 1911. Friction resistance shall, at a minimum, have a FN40R value of 35 (or equivalent).
- 3. The results of all friction tests shall be sent to the **Operations Engineer** at the local FDOT District Four Operations Center located at Broward Operations, 5548 NW 9th Avenue, Ft. Lauderdale, FL 33309 (954) 776-4300, with a cover letter either certifying, that the crosswalks comply with the minimum friction criteria, or stating what remedial action will be taken to restore the friction.
- 4. Failure to achieve the minimum resistance shall require all lanes of the crosswalk to be friction tested to determine the extent of the deficiency. All deficient areas shall be removed to their full extent (lane-by-lane) and replaced with the same product installed initially. If the Department determines that more than 50% of the lanes in the intersection require replacement, the entire intersection installation may be reconstructed with a different product on the QPL, or replaced with conventional pavement.

。""我们不能不能能是我的人们的人,不是是我们都是不能。"他说道:"你们的人就是我们的人,你是我们的人,你不能是你的人,你们不是你,我不是我们的人,你不是你们。" "你们,你们们不能不能是你?""你们,你们们不能是你的人,你们们的是你,你们们们的,你们还是你的人,你们还是我们。"

- 5. When remedial action is required in accordance with the above requirements, the local agency shall complete all necessary repairs at its own expense within 90 days of the date when the deficiency was identified. No more than two full depth patterned pavement repairs shall be made to an area without first resurfacing the underlying pavement to 1" minimum depth.
- 6. The Department will not be responsible for replacing the treatment following any construction activities by the Department in the vicinity of the treatment, or any costs for testing.
- 7. Should the local agency fail to satisfactorily perform any required remedial work or testing in accordance with this agreement, the Department reserves the right to replace the patterned pavement with conventional pavement (matching the adjacent pavement) and bill the local agency for this cost.

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Florida Test Method

for

Friction Measuring Protocol for Patterned Pavements

Designation: FM 5-592

SCOPE

1.

This method covers the testing procedures for evaluating the friction resistance of Patterned surfaces used in crosswalks over asphalt and concrete surfaces

Note: This test method contains two parts:

Part A- Friction testing performed with the Locked Wheel Friction Tester Part B- Friction testing performed with the Dynamic Friction Tester (DFT)

- 2. APPARATUS
 - 2.1 Locked Wheel Friction Tester- This apparatus shall be standardized in accordance with ASTM E 274, "Standard Test Method for Skid Resistance of Paved Surfaces Using a Full-Scale Tire". The friction test tire used shall be in accordance with ASTM E 501, "Standard Specification for Standard Rib Tire for Pavement Skid-Resistance".
 - 2.2 Dynamic Friction Tester- This apparatus shall be standardized in accordance with ASTM E 1911, "Standard Test Method for Measuring Paved Surface Frictional Properties Using the Dynamic Friction Tester".

3. FRICTION NUMBER CONVERSION

The regression equations relating the locked wheel test results and the DFT results at 40 mph (65 km/h) are:

FN40R=0.64 DFT40+9.23

DFT40 = 1.56 · FN40R - 14.42

(2)

where,

FN40R = Friction Number from locked wheel testing at 40 mph using a ribbed tire DFT40 = Coefficient of Friction from DFT at 40 mph multiplied by 100.

Although the above equations can be used to convert the DFT result to the locked wheel friction number at 40 mph and vice versa, conditions do exist where the DFT testing or the locked wheel testing at 40 mph is not feasible due to constraints such as safety, traffic congestion, speed limits, and/or roadway geometries. In these cases, it may be preferable to conduct the locked wheel

(3)

(4)

testing at a slower speed, e.g., 20 or 30 mph. The following regression equations have been developed to convert the locked wheel test results at 20 and 30 mph to those at 40 mph:

where,

FN20R = Friction Number from locked wheel testing at 20 mph using a ribbed tire, and

where,

FN30R = Friction Number from locked wheel testing at 30 mph using a ribbed tire.

For ease of application of the above harmonization results, Table 1 summarizes the conversions from FN30R, FN20R and DFT40 to FN40R. Note that the friction numbers shown in this table were rounded to the closest integer. The numbers highlighted in yellow represent the current minimum required friction numbers depending on survey cycle, test method, and speed evaluated.

Table 1. Friction Number Table

March 1, 2011 Revised: December 6, 2011

FN40R	FN30R	FN20R	DFT40
22	26	30	20
23	27	31	
24	28	32	21
25	29	34	23
26	30	35	25
27	31	36	26
28	33	37	28
29	34	38	29
30*	35*	39*	31
31	36	40	32*
32	37	41	34
33	38	43	36
34	39	44	37
35**	40**	45**	39
36	41	46	40**
37	42	47	42
38	43	47	43
39	44	49	45
40	45	50	46
41	46	52	48
42	47	53	50
43	48	55	51
44	49		53
45	50	<u> </u>	54

* Minimum friction numbers required for inventory cycles of patterned crosswalks. **Minimum friction numbers required for new construction and 3-year QPL test decks for patterned crosswalks.

4. PROCEDURE

The test procedures for both the Locked Wheel Friction Tester and the Dynamic Friction Tester are described in the following. All testing should be performed within either the driver or passenger side wheel path, regardless of the equipment used.

4.1 PART A- Friction Testing with the Locked Wheel Friction Tester

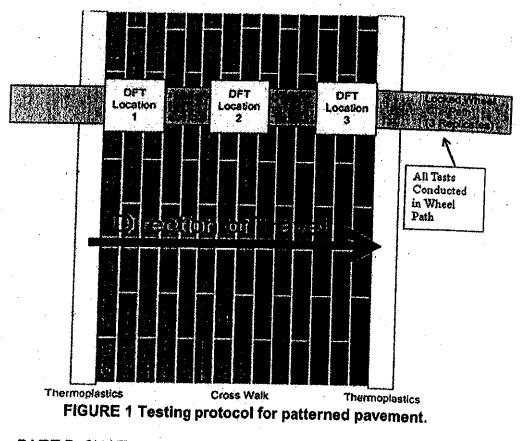
A) New Construction – The locked wheel test shall be conducted on all crosswalks within 60 days of the new surface completion date. One valid lockup test is required for each lane; all lanes shall be evaluated

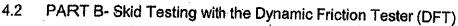
FM 5-592

and compared. The test layout is shown in Figure 1.

B) Inventory – For in-service Qualified Product List (QPL) test sections, the locked wheel test is conducted at 6 month intervals up to 3 years. Maintenance surveys are conducted on a yearly basis. Test site shall be confined to a single outside traffic lane (single direction) for each crosswalk location. The locked wheel test will require three repeat lockups and averaged for the designated test lane. The lane in which the friction tests were conducted must be identified in the report along with the test results.

- C) Retest At any point when friction numbers are determined to be below the required values shown in Table 1, all lanes shall be evaluated and the range of friction values shall be determined.
- D) Special Request At any time a patterned pavement is in need of a special assessment, the designated lane(s) shall be evaluated to determine the range of representative friction values.





- 4

March 1, 2011 Revised: December 6, 2011

A) New Construction – The DFT test shall be conducted on all crosswalks within 60 days of the new surface completion date. DFT tests shall be conducted at three (3) discrete locations in each lane; the results shall be averaged and reported for each lane tested. All lanes shall be evaluated and compared. The test layout is shown in Figure 1.

- B) Inventory For in-service QPL test sections, the DFT test is conducted at 6 month intervals up to 3 years. Maintenance surveys are conducted on a yearly basis. Test site shall be confined to a single outside traffic lane (single direction) for each crosswalk location. DFT tests will be conducted at three (3) discrete locations (Figure 1) in each lane; the results shall be averaged and reported for each lane tested. The lane in which the friction tests were conducted should be identified in the report with the test results.
- C) Retest At any point when friction numbers are determined to be below the required values shown in Table 1, all lanes shall be evaluated and the range of friction values shall be determined.
- D) Special Request At any time a patterned pavement is in need of a special assessment, the designated lane(s) shall be evaluated to determine the range of representative friction values.

REPORT

5

5.1 Friction numbers for the patterned crosswalks should be reported using FDOT's Materials form number 675-060-05. This form can be downloaded from FDOT's website at: <u>http://formserver.dot.state.fl.us/MiscRepository/forms/67506005.xlsm</u>.

FM 5-592