# City of St Pete Beach
# Request for Proposal

# Landscape Improvements

*Pinellas Bayway*

**Bid Proposal due by March 13th, 2014,**
**10:00 A.M. at City Hall, St. Pete Beach, FL**

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## I. BIDDER'S CONTRACT PROPOSAL

The company that is submitting a proposal declares that he/she has extensive experience in new landscape and irrigation installations and is also licensed to do such work.

The undersigned, as Bidder, hereby declares that the only person or persons interested in the Proposal as principal or principals are named herein, and that no other person than herein mentioned has any interest in the Proposal or in the Contract to be entered into; that this Proposal or Contract is made without connection with any other person, company, or parties making a Bid or Proposal; and that it is in all respects fair and in good faith without collusion or fraud.

The Bidder further declares that he/she has examined the site of the work and informed himself/herself fully in regard to all conditions pertaining to the place where the work is to be done; that he/she has examined the RFP, Plans, and Specifications for the work and Contract Documents relative thereto, and has read all special provisions furnished prior to the opening of bids; and that he/she has satisfied himself/herself relative to the materials to supplied and work to be performed.

The bidder certifies that the information and responses provided within this proposal are true, accurate, and complete. The City or its designated representatives may contact any entity or references listed in the response and investigate the company as defined in References & Qualifications to verify the bidder's abilities and quality of work. The contractor hereby grants permission for each entity or reference listed in the bidder's response may make any information concerning the Contractor available to the City.

The Bidder proposes and agrees, if the Proposal is accepted, to contract with the City of St. Pete Beach, Florida, in the form of Contract/Agreement specified for: *"BAYWAY LANDSCAPE IMPROVEMENTS".*

In St. Pete Beach, Florida, in full and complete accordance with the shown, noted, described, and reasonably intended requirements of the RFP, Plans, Specifications, Contract Documents, and Addenda to the full and entire satisfaction of the City of St. Pete Beach, Florida, the Bidder proposes to furnish all materials, equipment, labor, and perform the work submitted in their bid schedule for the City of St. Pete Beach's project: *"BAYWAY LANDSCAPE IMPROVEMENTS".*

COMPANY: DATE:
ADDRESS: PHONE:

BY: _____
*(SIGNATURE)*

NAME: _____
*(PRINT NAME & TITLE)*

Sworn to and subscribed before me on this _____day of_____, 2013

_____
*(Notary Public)*

_____
*(My Commission Expires)*

SUBMIT BID ITEMIZATION WITH PROPOSAL TO:
**CITY OF ST. PETE BEACH**

## BID SCHEDULE

**FDOT Contract Reference Number AQ561 (Pinellas Bayway) & AQ603 (City Wide FDOT ROW)**
**State Road 682 (Pinellas Bayway) between Gulf Blvd. and West of Granada St.**

| | LANDSCAPING | IRRIGATION |
|---|---|---|
| Median 1E | $_____ | $_____ |
| Median 2E | $_____ | $_____ |
| Pinellas Bayway Roadside (N) | $_____ | $_____ |
| Pinellas Bayway Roadside (S) *from Granada St. to Gulf Blvd.* | $_____ | $_____ |

| | LANDSCAPING | IRRIGATION |
|---|---|---|
| **TOTAL:** | $_____ | $_____ |

*Contractor to provide a unit cost breakdown per median and each roadside (North/South) showing quantity of plants, unit cost per plant, and total cost similar to the example below. Attach breakdown to the Bid Schedule.

| Quantity | Item | Unit Cost | Total Cost |
|---|---|---|---|
| | **Median** | | |
| 0 | Indian Hawthorn, 3 gal. | $0.00 | $0.00 |
| 0 | Parsoni Juniper, 3 gal. | $0.00 | $0.00 |
| 0 | Dune Sunflower, 1 gal. | $0.00 | $0.00 |
| 0 | Minima Jasmine, 1 gal. | $0.00 | $0.00 |
| 0 | Medjool Date Palm, 16' CT | $0.00 | $0.00 |
| 0 | Mulch (cy) | $0.00 | $0.00 |
| 0 | Clearing & Grubbing - site prep, transplants (ls) | $0.00 | $0.00 |
| 0 | Mobilization (ls) | $0.00 | $0.00 |
| 0 | MOT (ls) | $0.00 | $0.00 |
| | Establishment / Warranty Services (ls) | $0.00 | $0.00 |
| | **Subtotal: $0** | | |

# II. GENERAL CONTRACT DOCUMENTS

**REQUEST FOR PROPOSAL**
Bayway Landscape Improvements

**BID DOCUMENTS**

I. Bidder's Proposal & Bid Schedule
II General Contract Documents
III. References
IV. Certificate of Insurance
V. Performance Bond
VI. Contract Agreement
VII. Bidder's Checklist
VIII. Contractor Education
IX. Vendor Form
X. Bid Documents - Drawings

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**LOCATIONS**
The City of St. Pete Beach is soliciting proposals from qualified Construction Contractors for:
Landscape Improvements along the Pinellas Bayway within St. Pete Beach City Limits

**BID SUBMITTALS**
Bid documents must include a signed proposal, itemized bid description and fee schedule, project schedule, references, contractor's license and insurance certificates. Any major sub-contractor that will be hired by the contractor for this project must also submit references, contractor's license and insurance certificates. Refer to bidder's checklist for further details. Submit one (1) original and two (2) copies of all bid submittal documents. Failure to submit the required bid submittals could result in a contractor's bid being deemed incomplete or non-compliant with bid specifications and will not be reviewed for price.

**BIDDER REQUIREMENTS**
Contractors must have completed a minimum of three (3) commercial projects of similar size/scope and show continual work experience in large landscape projects for at least the last five (5) years. Contractor must be licensed and registered to be able to perform this scope of work in Pinellas County. Any subcontractors, such as an irrigation contractor must also be licensed and able to perform work within Pinellas County.

**BIDDER INFORMATION**
All Contractors must contact the CIP Construction Manager, via e-mail, with their intention to bid, along with their company name and contact information. The City is not responsible for any Addendums or other supplementary information that is not received due to non-submittal of the aforementioned information. Please refer back to the website (www.stpetebeach.org) for additional project information as it becomes available.

**MANDATORY PRE-BID MEETING**
Mandatory pre-bid meeting will be held on February 19th, 2014, at 1:00PM at Public Services Building, 7581 Boca Ciega Dr., St. Pete Beach, FL, 33706.

**BID PACKAGES**
Sealed bids will be received until 10:00AM, March 13th, 2014, in the Office of the City Clerk, 155 Corey Avenue, St. Pete Beach Florida at which time they will be publicly opened and read. All bidders are invited to attend this bid opening, which will be held immediately following the closing time specified. Bids received after the deadline will not be accepted.

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**Bids should be addressed to:** City of St. Pete Beach
City Clerk's Office
155 Corey Ave., St. Pete Beach, FL 33706

Plainly marked as: ***"Bayway Landscaping Improvements"***

**CONTACT INFORMATION**

Renee Cooper, CIP Construction Manager
**Mailing:** 155 Corey Avenue **Office:** 7581 Boca Ciega Dr.
St. Pete Beach, Florida 33706
Office - (727) 363-9254 Fax - (727) 367-2736
E-mail - r.cooper@stpetebeach.org

**SCOPE OF WORK**

- Bids shall include all labor, equipment, and materials to complete irrigation and landscaping as per the design submitted by Genesis Group, project number 6140-001, including FDOT plan review comments dated April 11th, 2012.
- Refer to General Notes and other requirements noted on LS-29, LS-30, & IR-29
- MOT shall be provided and included in the contractor's bid. MOT details have been provided.
- Erosion control measures shall also be included in the contractor's bid. Details have been provided.
- Since this project is being funded through an FDOT Beautification Grant, all applicable FDOT specifications, rules, and regulations do apply.
- Work on the City's portion of landscaping along the Bayway cannot commence until FDOT completes their portion of landscape improvements. FDOT plans to complete their landscape improvements following the completion of the Bayway Bridge project.

**DETAILED PROJECT INFORMATION**

- The contractor shall carefully examine the project site and be familiar with the work required for the project. Investigate all site conditions that may affect execution of the work as detailed in the bid documents. Contact the City's Public Services Department or their designee for changes or alterations before proceeding. Contractor is responsible for field measurement and review of existing conditions.
- Work Hours shall be from 7:00AM until 5:00PM, Monday thru Friday. No work shall take place during the weekends or on City Holidays (Memorial Day, Independence Day, Labor Day, etc.). If weekend or holiday work is required, this must be approved by the CIP Construction Manager at least 1 week prior to the scheduled work. Contractor will coordinate scheduling of work with CIP Construction Manager
- Contractor is responsible for all utility locates through Sunshine One-Call.
- Site and surrounding properties must be kept free of construction debris and thoroughly cleaned upon completion
- All work to be completed within the project limits or City Right-Of-Way.
- Equipment left on site must be approved by CIP Construction Manager.
- Barricades, cones, and/or traffic control activities, ALL MOT requirements are the responsibility of the Contractor.
- Contractor is responsible for all cut and patch within the project limits as a direct result of work performed under this contract. All disturbed areas are to be patched back equal to or better than the existing.
- Contractor shall verify existing water tap locations within medians. Utilize existing water taps when feasible.
- Contractor is responsible for all Stormwater BMPs. As per DEP's requirements for MS4's, please provide proof of Site Operator Training and refresher class based on DEP's Stormwater, Erosion, and Sediment Inspector Training Class.
- Lumber or timber products should be produced and manufactured in the state if the products are appropriately available.
- Contractor must be an FNGLA Certified Landscape Contractor and must have all applicable Pinellas County landscape licenses and certifications.
    - Any person or company providing fertilizer application services within Pinellas County must obtain the Limited Certification for Urban Landscape Commercial Fertilizer as per F.S. 482.1562.
    - Any person or company providing landscape services (mowing, trimming, edging, pruning, debris management, etc.) NOT including fertilizer application must be trained in a Pinellas County-approved best management practices course for landscape maintenance as per Pinellas County's fertilizer ordinance Article XIII, Chapter 58.
    - Any person or company providing landscape services not including fertilizer application must display a Pinellas County vehicle decal after successfully completing the training and certification requirements.

- Any person providing application of herbicides, fungicides, and insecticides using products limited to "Caution" labels only (such as Round-Up), must maintain the Limited Certification for Commercial Landscape Maintenance.
- Any commercial contractor providing application of herbicides, fungicides, and insecticides must maintain a company-wide Pest Control License for Lawn & Ornamental applications.

- As per FDOT's contract requirements, the contractor shall utilize the U.S. Department of Homeland Security's E-Verify system to verify the employment eligibility of all persons employed by the contractor and subcontractors as a part of this project. Provide paper or electronic copies of all verifications.
- The contractor shall review FDOT Engineering and Operations Memorandum 13-1 dated March 14, 2013, for the minimum require establishment period.

**ADDITIONAL WORK DETAILS**

**Firms or persons wishing to bid on this project must be licensed, bondable and insured in accordance to the requirements of this proposal package. Contractors and sub-contractors must be certified, registered and/or licensed by the proper construction licensing boards for the work being performed. The contractor will furnish all necessary labor, materials, tools, equipment and supplies to complete the scope of work. Proposal must also include all costs for licenses, permits and any material disposal fees.**

Bidders shall bring questions, discrepancies, omissions, conflicts or doubt as to meaning of any part of Contract Documents to attention of the City of St Pete Beach Public Services Department at least ten (10) days before due date for Bids. Clarification of intent of Contract Documents if necessary shall be made available to bidders in form of Addendum. Failure to request clarification of interpretation of Contract Documents shall not relieve bidders of their responsibilities to perform the work.

The City of St. Pete Beach reserves the right to reject any or all proposals or parts of proposals or accept any proposal or part thereof deemed to be in the best interests to the City of St. Pete Beach. The City of St. Pete Beach also retains the right of selecting separate contractors for any particular bid item.

**STATEMENT OF WORK**

The Contractor shall furnish and pay the cost, including sales tax and all other applicable taxes, licenses, permits and fees, of all the necessary materials not furnished by the City and shall furnish and pay for all the superintendence, labor, tools, equipment and transportation and perform all the work required for the execution of all services listed in the Bidder's Proposal and Bid Schedule attached hereto and in strict accordance with the Plans, Specifications, and requirements of the City of St. Pete Beach which are attached hereto and made a part hereof, and any amendments thereto and such supplemental Plans and Specifications which may hereafter be approved.

**BEGINNING DATE**

The Contractor shall within ten (10) days after receipt of the Notice of Award and before commencement of any operations hereunder execute the Contract. The Contractor must provide a work schedule and/or commence work within ten (10) days of the Contract signing at the discretion of the City. Any change to the start date or the work schedule must be submitted in writing to and approved by the City Manager or designee. The Contractor shall furnish a dated work schedule (what work completed on what date) with each invoice to aid the City. The work shall be discontinued on Saturdays, Sundays and all legal or City designated holidays, except for special operations that may be necessary in order to maintain, check or protect work already performed. Work may be permitted on weekends or holidays with approval from the City Manager or designee. No work shall be done at night without prior approval of the City Manager or designee.

**COMPLETION DATE**

90 Days from Commencement of Work

**EXAMINATION OF SITE**

Bidder shall carefully examine project site and be familiar with the work required for the project. Investigate all site conditions that may affect execution of work as detailed in the construction documents. Contact the City's Public Services Department or their designee for changes or alterations before proceeding.

**ASSURANCES**
The responding firm shall provide a statement of assurance that the firm is not presently in violations of any statutes or regulatory rules that might have an impact on the firms operations. All applicable laws and regulations of the State of Florida and ordinances and regulations of the City of St. Pete Beach will apply.

**TRAFFIC CONTROL AND STAGING AREA**
Contractor shall include all costs associated with traffic control and maintenance during the project. Contractor shall be provided with a staging area but will be required to control the area with fencing or barricades.

**ASSIGNMENT AND TRANSFER OF CONTRACT**
The Contractor shall not assign or transfer this Contract or any part thereof or any interest therein without consent in writing of the City and the contractor's Surety, and any such assignment or transfer without such written consent shall be null and void.

**SUBCONTRACTS**
The Contractor shall not subcontract this Contract or any part thereof or any interest therein without consent in writing of the City and the contractor's Surety. Any Subcontractor approved by the City will be subject to the same standards and qualifications as stated in this Contract.

**PERFORMANCE PAYMENT BOND**
The Contractor shall furnish the City with a performance and payment bond in a penal sum equal to the amount of the Contract price, conditioned upon the performance by the Contractor of all undertakings, covenants, terms, conditions, and agreements of this Contract, and upon the prompt payment by the Contractor to all persons supplying labor and materials in the prosecution of the work provided by this Contract. The Contractor shall execute such bond and a corporate bonding company licensed to transact such business in the State of Florida and acceptable to the City.

**The expense of this bond shall be borne by the Contractor. If at any time a Surety on such bond becomes irresponsible or loses its right to do business in the State of Florida, the City may require another Surety that the Contractor shall furnish within ten (10) calendar days after receipt of written notice to do so. Evidence of authority of an attorney in fact acting for the corporate Surety must be provided in the form of a certificate as to his power of attorney and to the effect that it is not terminated and remains in full force and effect on the date of the bond. The form of the bond shall be subject to approval by the City.**

**LIQUIDATED DAMAGES**
If the work embraced by this Contract is not completed on or before the date set for completion or any extension thereof, the actual damages for the delay will be impossible to determine and in lieu thereof, the Contractor shall pay to the City fixed, agreed and liquidated damages in the amount of Five-Hundred Dollars ($500) per day for each calendar day of delay until the work is satisfactorily completed.

**PAYMENT**
Payment shall be made to the Contractor for work performed under this Contract for the quantities of work as determined in accordance with Payments for Work Completed and Payments Withheld of this Contract. Payment for extra work will be made in accordance with Extra Work and Charges and Payments for Work Completed of this Contract.

**CLAIMS FOR EXTRA COST**
If the Contractor claims that any changes in the work or any instructions by means of drawings or otherwise involve extra cost, he/she shall give the City Manager or designee written notice thereof within a reasonable time after receipt of such instructions or of notice of such changes and, in any event, before proceeding to carry out such instructions or to put such changes into effect, except in case of emergency endangering life or property. In all cases the Contractor shall keep a correct account of the extra cost in such form as the City Manager or designee may direct and shall present such account supported by receipts to the City Manager or designee. The City shall be entitled to reject any claim for extra cost concerning which the foregoing procedure is not followed.

**PAYMENTS FOR WORK COMPLETED**

Partial payments will be made as the work progresses at the end of each calendar month, or as soon thereafter as practicable on estimates made by the City Manager or designee and as approved by the City, provided that the Contractor is performing the overall job in a diligent manner. In making partial payments, there shall be retained ten percent (10%) on the amount of each estimate until final completion and acceptance of all work covered by the Contract. Upon completion and acceptance of the work, the City Manager or designee shall issue a certificate that the work has been completed and accepted by him under the conditions of this Contract, and shall make and approve the final estimate of the work. The entire balance found to be due the Contractor, including that retained by the City, should be paid to the Contractor. Such payment shall be conditioned, however, upon the submission by the Contractor of evidence satisfactory to the City that all claims for labor, material, and any other outstanding indebtedness in connection with this Contract have been paid. Such payment shall also be conditioned upon approval and acceptance of the construction and improvements by the City.

If after the work has been substantially completed, full completion thereof is materially delayed through no fault of the Contractor and the City Manager or designee so certifies, the City shall upon the Certificate of the City Manager or designee, and without terminating the Contract make payment for the balance due for that portion of the work fully completed and accepted. Such payment shall be made under the terms and conditions governing final payment, except that it shall not constitute a waiver of claim If such delay occurs and payment is made under this clause, the Contractor shall nevertheless be prepared to complete the work in a timely manner upon the remedy or removal of such delay, and shall be bound under this Contract for the completion of such work unless this Contract is otherwise terminated.

**PAYMENTS WITHHELD**

The City Manager or designee may withhold, or, on account of subsequently discovered evidence, nullify the whole or part of any estimate to such extent as may be necessary to protect the City from loss on account of:

(a). Defective work not remedied
(b). Claims filed or reasonable evidence indicating probable filing of claims
(c). Failure of the Contractor to make payments properly to Subcontractors or for material or labor.
(d). A reasonable doubt that the Contract can be completed for the balance then unpaid.
(e). Damage to another Contractor.
(f). Failure of the Contractor to keep his/her work progressing in accordance with his/her time schedule.

**FINAL ESTIMATES**

Upon the completion and acceptance of the work, the City Manager or designee shall issue a certificate that the whole work provided for in this Contract has been completed and accepted by him under the conditions and the terms thereof and shall make the final estimate of the work. After issuance of the certificate, the entire balance found to be due the Contractor including said retained percentage but the City in accordance with existing state laws as may be retained lawfully by said City, shall pay excepting such sums to the Contractor

Before the approval of the final estimate, the Contractor shall submit evidence satisfactory to the City that all payrolls, materials, bills and outstanding indebtedness in connection with this Contract have been paid.

**LIENS**

If at any time there shall be evidence of any lien or claim for which the City might become liable and which is chargeable to the Contractor, the City shall have the right to retain out of any payment then due or thereafter to become due, an amount sufficient for complete indemnification against such lien or claim. In the event the City has already paid to the Contractor all sums due under this contract or the balance remaining unpaid is insufficient to protect the City, the Contractor and his Surety shall be liable to the City for any loss so sustained.

**RESPONSIBILITY OF THE CITY MANAGER OR DESIGNEE**

The term “City Manager or designee” wherever used in this Contract shall be the City of St. Pete Beach or its duly authorized representative. Notices of any change in the City Manager or designee shall be given in writing by the City to the Contractor. The City Manager or designee shall have full authority to interpret the Plans and Specifications and shall determine the amount, quality, and acceptance of the work and supplies

to be paid for under this Contract and every question relative to the fulfillment of the terms and provisions therein. It shall be the duty of the City Manager or designee to enforce the Plans and Specifications in a fair and unbiased manner.

If a variation from any requirements is allowed the City Manager or designee shall grant the same in writing with the reasons for his action outlined, and such action will not invalidate or change the Contract in any other manner.

**INTENT OF PLANS AND SPECIFICATIONS**

The Contractor shall keep on the job a copy of the Plans and Specifications and shall at all times give the City Manager or designee access thereto. Anything mentioned in the Specifications and not shown on the Plans or shown on the Plans and not mentioned in the Specifications, shall be of like effect as if shown or mentioned in both. The Contractor shall not take advantage of any errors, discrepancies or omissions that may exist in the Plans and Specifications, but shall immediately call them to the attention of the City Manager or designee whose interpretation or correction thereof shall be conclusive. Should a conflict occur between the General Specifications and any Supplemental Specifications and/or Plans, the latter shall govern. Detailed Specifications inserted elsewhere in these specifications govern the construction of the work to be done on this project only.

**LICENSES AND PERMITS**

The Contractor shall obtain and pay for all necessary City licenses and work permits and shall faithfully comply with all laws, ordinances and regulations, (Federal, State or local) which may be applicable to the operations to be conducted hereunder. Chapter II, Section II-4, "Registration of Licenses Obtained From Other Municipalities:" "..Persons, partnerships, corporations, or other business entities doing business with the City who are not required to obtain a City occupational license, but who must have either a State or County or Municipal occupational license from another municipality, shall register such occupational license with St. Pete Beach Community Development Department. The City may charge a fee for such registration." The Contractor shall be responsible for obtaining all City, County, State and Federal permits required by those government agencies and must provide documentation of receipt of those permits prior to project commencement. This shall include a notice to commence work letter and the applicable fee, if required. Any sub-contractor hired by the contractor awarded the project, MUST also register their license with the City.

**SUPERINTENDENCE**

The Contractor shall constantly superintend all the work embraced in this Contract in person or by a responsible agent who shall have in writing, full authority to act for him/her and to carry out all the instructions given by the City Manager or designee.

**LABOR PROVISIONS**

The Contractor and his Subcontractors shall discharge, whenever ordered to do so by the City Manager or designee, any employee who is disorderly or whose conduct in the opinion of the City Manager or designee is detrimental to the prosecution of the work. No person whose age or physical condition is such as to make this employment dangerous to his/her health and safety or to the health and safety of others shall be employed on the work, and in no event shall any persons under the age of sixteen (16) years be employed. The State of Florida prevailing wage law requires that the Contractor shall fully comply with all provisions contained in Section 215.19, "Schedule of Prevailing Wage Rates for Specified Public Construction." The wage rates set forth by such determination shall apply to this project.

**LIABILITY INSURANCE**

The Contractor shall procure and maintain at his/her own expense, during the life of this Contract, liability insurance as hereinafter specified. All such insurance shall be subject to the approval of the City for adequacy of protection, and shall include a provision preventing cancellation without twenty (20) days prior notice to the City in writing. The City shall be included as an additional insured on all liability insurance. The liability insurance required is as follows: Contractor's General Public Liability and Property Damage Insurance issued to the Contractor and protecting the Contractor from all claims for personal injury, including death, and all claims for destruction of or damage to property, arising out of or in connection with any operations under this Contract, whether such operations be by the Contractor or by any Subcontractor hired by the Contractor or anyone directly or indirectly employed by the Contractor or by a Subcontract or hired by the Contractor.

The successful Contractor supply and maintain insurance which defends, indemnifies and holds harmless the City of St. Pete Beach, its officers, employees and agents from and against any and all liability, damage claims, demands, costs, judgments, fees, attorney's fees or loss arising directly out of acts or omissions hereunder by the contractor or third party under the direction or control of the contractor. Such general and excess liability coverage shall be primary to any other coverage carried by the City of St Pete Beach. Contractor must furnish the City with Certificate of Insurance prior to commencement of work. An approved Certificate of Insurance furnished by the contractor's carrier to guarantee the contractor being insured with the City of St Pete Beach must be named as a certificate holder for this contract. The following minimum coverage:

Commercial Liability Insurance $1,000,000.00.
Comprehensive General Liability Insurance of $1,000,000.00 each occurrence.
Personal Injury for $1,000,000.00 each occurrence.
Automobile Liability $1,000,000.00.

General Workers Compensation Insurance as required by Florida law.
Builder's Risk Insurance.
Contractor's Pollution Liability Insurance Policy $1,000,000
Marine General Liability Insurance including Longshore Harbor Worker's Compensation.

**PROTECTION OF WORK AND PROPERTY**

The Contractor shall continuously maintain adequate protection of all his/her work and materials from damage or theft and shall protect the City's property and all adjacent property from injury or loss arising in connection with activities under his/her Contract. The Contractor shall make good any such damage, injury, or loss, except such as may be caused by agents or employees of the City.

The Contractor shall take, use, provide, and maintain all necessary precautions, safeguards, and protection to prevent accidents, or injury to persons or property on, about, or adjacent to the site of the work. Should the situation arise that physical security is needed the Contractor will provide security on off days and holidays. The Contractor shall be responsible for all charges incurred with such action.

The Contractor shall post danger signs warning against any hazards created by the work being done under his/her Contract. He/She shall designate a responsible member of his/her organization on the work, whose duty shall be the prevention of accidents, and the name of the person so designated shall be reported to the City Manager or designee and City in writing. In an emergency affecting the safety of life, or of the work or adjoining property, the Contractor, without special instruction or authorization from the City Manager or designee or City, is hereby permitted to act, at his/her own discretion, to prevent such threatened loss or injury, and he/she must take such action if so instructed or authorized by the City Manager or designee. The Contractor shall also protect adjacent property as required by law.

**PARKING**

Arrange with owner for temporary parking areas to accommodate construction personnel and construction equipment. Parking for both stations will be at a minimum as the City does not own or maintain any City parking lots near the project sites.

**TRANSPORTATION, HANDLING and STORAGE**

Transport, handle, protect and store products in accordance with manufacturer's instructions and all environmental regulatory agencies.

**VEHICLES**

Business vehicles shall be identified on both sides with the name of the company or firm operating the vehicle.

**ENVIRONMENTAL PROTECTION**

It shall be the Contractor's responsibility to implement construction methods, best management practices, and erosion control methods that avoid water pollution as required by the State of Florida Department of Environmental Protection, City of St. Pete Beach and Pinellas County. Any Contractors in violation of the City of St. Pete Beach Regulations, Pinellas County Regulations, Florida Department of Environmental Protection Regulations or any other regulatory agency regulations shall be the sole responsibility of the

Contractor. The Contractor shall hold harmless the City of St. Pete Beach and the City Manager or designee from any fines and litigation resulting from the Contractor's actions. The Contractor shall pay all attorneys' fees, fines, penalties and any other such expenses resulting from the Contractor's actions. The Contractor shall provide all necessary measures to prevent any materials whatsoever from entering the waterway except for those materials, which are shown, on the plans as completed structures. The Contractor shall provide MSDS sheets to the City Manager or Designee on all applicable materials before applying those materials. The contractor shall secure the necessary education, certifications, licenses and permits required by state and local agencies to operate and manage a construction site. The contractor shall abide by all rules and regulations set forth and required by the City of St. Pete Beach's MS4 NPDES Permit.

**TIMELY DEMAND FOR STAKES AND INSTRUCTIONS**

The Contractor shall provide reasonable and necessary materials, opportunities and assistance for setting stakes and making measurements, including the furnishing of a rodman, or a chainman at intermittent times during the construction period. He /she shall not proceed until he/she has received such stakes and instructions as may be necessary as the work progresses. The work shall be done in strict conformity with such stakes and instructions. The Contractor shall carefully preserve bench marks, reference points and stakes, and in case of willful or careless destruction, he /she will be charged with the resulting expense and shall be responsible for any mistakes that may be caused by their unnecessary loss or disturbance.

**WORKMANSHIP**

The Contractor acknowledges that he/she has satisfied himself/herself as to the nature and location of the work; the general and local conditions including but not restricted to those bearing upon transportation, disposal, handling and storage of materials; availability of labor, water, electric power, roads; and uncertainties of weather, surface conditions, subsurface conditions, tides or similar physical conditions at the site, the character of equipment and facilities required to prosecute the work. Any failure by the Contractor to acquaint himself/herself with any aspect of the work or with any of the applicable conditions shall not relieve the Contractor from the responsibility to successfully perform the work under the Contract Documents, nor shall it be considered the basis for any claim for additional time or compensation.

**UTILITIES**

The Contractor shall anticipate all underground obstructions such as water lines, gas lines, sewer lines, utility lines, or any other public or private facility concrete and debris. In all cases where existing utility lines may be interfered with by the work, the Contractor shall give a minimum of thirty six (36) hours' notice to the owners of such utilities, to permit them to relocate the lines prior to construction. No extra payment shall be allowed for the removal, replacement, repair or possible increased cost caused by underground obstructions. The location of existing structures and utilities provided in the plans are approximate only. Any damage to existing structures to remain or work of any kind shall be repaired or restored promptly by, and at the expense of the Contractor.

The Contractor shall at all times protect all desirable trees, plants, curbs, sidewalks, irrigation components, and structures not requiring removal to accomplish the work, whether or not they are shown on the plans. The Contractor must contact the City to obtain tree removal permits for the removal of any tree.

In matters of restoration all materials, construction and workmanship shall be acceptable to the City of St. Pete Beach and the City Manager or designee. No changes in size, shape, configuration, location, materials or construction shall be made without prior written authorization from the City Manager or designee. Any demolition debris and other debris shall be hauled offsite and properly disposed of by the Contractor and shall be inclusive to the prices as stated in the BID SCHEDULE, unless otherwise stipulated as part of the project to remain.

No interruption of ingress and egress to private property shall be made unless the Contractor has made prior arrangements acceptable to the owner of the affected property. At the direction of the City Manager or his designee the Contractor shall be required to notify affected residents/property owners of impending activity or inconvenience via door hanger.

The Contractor shall provide all traffic control devices utilized during construction and meet the requirements set forth in the Florida State Department of Transportation "Manual on Traffic Control and Safe Practices for Street and Highway Construction, Maintenance, and Utility Operations."

**CLEANING UP**
Upon completion or termination of the work the Contractor shall, as directed by the City Manager or designee, remove from the vicinity of the work all equipment and temporary structures, waste materials and rubbish resulting from his operations, leaving the premises in a neat and presentable condition. All debris generated by the Contractor will be removed before leaving the area. All areas will be raked to remove smaller debris. All surrounding sidewalks, parking lots and roadways will be cleared of any dust or debris generated by the Contractor. In the event of his/her failure to do so, the City at the expense of the Contractor may do the same, and his/her Surety shall be responsible therefore.

**CONTRACTOR'S RIGHT TO STOP WORK OR TERMINATE CONTRACT**
If the work shall be stopped under an order of any court or other public authority for a period of three (3) months through no act or fault of the Contractor or of anyone employed by him/her, then the Contractor may on seven (7) days written notice to the City and the City Manager or designee stop work or terminate this Contract and recover from the City payment for completed bid items and any losses sustained, and a reasonable profit. If the City Manager or designee shall fail to issue any certificate for payment within ten (15) days after it is due, or if the City shall fail to pay the Contractor within thirty (30) days after its maturity and presentation any sum certified by the City Manager or designee, then the Contractor may on seven (7) days written notice to the City and the City Manager or designee stop work and give written notice of intention to terminate this Contract. If the City shall thereafter fail to pay the Contractor within seven (7) days after receipt of such notice, then the Contractor may terminate the Contract and recover from the City payment for completed bid items and any losses sustained, and a reasonable profit.

**DEFECTIVE WORK OR MATERIAL**
**The Contractor shall promptly remove from the premises all work and materials condemned by the City Manager or designee as failing to conform to the Contract, whether incorporated or not, and the Contractor shall promptly replace and re-execute his own work in accordance with the Contract and without expense to the City and shall bear the expense of making good all work of other Contractors destroyed or damaged by such removal or replacement.**

If the Contractor does not remove such condemned work or materials within a reasonable time after notice, the City may remove them and store the materials at the expense of the Contractor. If the Contractor does not pay the expense of such removal within ten (10) days' time thereafter, the City may, upon thirty (30) days written notice sell such materials at auction or at private sale and shall account for the net proceeds thereof after deducting all the costs and expenses that should have been borne by the Contractor.

**DISPUTE RESOLUTION**
This Contract shall be construed under Florida law. The parties agree that all controversies, claims and other matters in question between the parties arising out of or relating to this Contract or its breach shall be resolved through mediation. Upon notice of any party to the Contract of a dispute, question or controversy, the parties shall agree to the appointment of a qualified mediator. A qualified mediator is a person who has received at least forty (40) hours of mediation training and has actual experience as a mediator in resolving contract disputes. If the dispute, question or controversy is not resolved through mediation within sixty (60) days of a notice of the dispute between the parties, in that event, the controversy shall be submitted to arbitration administered by the American Arbitration Association under its commercial Arbitration Rules, and judgment on the award rendered by the arbitrator(s) may be entered in any court having jurisdiction thereof.

**INDEMNITY**
The Contractor shall indemnify and save harmless the City, and the City's agents and employees, from and against all losses and all claims, demands, payments, suits, actions, recoveries, and judgments of every nature and description brought or recovered against them by reason of any action or omission of the said Contractor, his agents, or employees, in the execution of the work or in guarding the same.

**GENERAL WARRANTY**
Neither the final certificate nor any provision in the Contract Documents nor partial or entire occupancy of the premises by the City shall constitute an acceptance of work not done in accordance with the Contract Documents or relieve the Contractor of liability in respect to any express warranties or responsibility for faulty materials or workmanship. The Contractor shall remedy any defects in the work and pay for any damage to other work resulting there from that shall appear within eighteen (18) months from the date of final acceptance of the work, unless a longer period is specified. The contractor shall review FDOT

Engineering and Operations Memorandum 13-1 for the minimum require establishment period. The required establishment period may exceed the City's General Warranty period. The City shall give notice of observed defects with reasonable promptness.

**LAND OF CITY, USE OF, BY CONTRACTOR**

The City shall provide the land upon which the work under this Contract is to be done, and will, so far as is convenient, permit the Contractor to use as much of the land as is required for the erection of temporary construction facilities and storage of materials, together with the right of access to same, but beyond this, the Contractor shall provide, at his/her cost and expense, any additional land required. It will be the responsibility of the Contractor to repair or restore to the satisfaction of the City, at their own expense, any damage to land used for the above stated activities or any other activities approved by the City.

**OTHER WORK**

Wherever work being done by the City or by other Contractors is contiguous to work covered by this Contract, the respective rights of the various interests involved shall be established by the City Manager or designee to secure the completion of the various portions of the work in general harmony.

**OTHER CONTRACTS**

The City may award other Contracts. The Contractor shall fully cooperate with such other Contractors and carefully fit his/her own work to that provided under other Contracts, as may be with the performance of work by any other Contractor or City.

**DELAYS AND EXTENSION OF TIME**

If the Contractor should be delayed at any time in the progress of the work by an act or neglect of the city or the City Manager or designee, or of any employee of either, or by any separate Contractor employed by the City, or by changes ordered in the work, or by strike, lockouts, fire, unusual delay in transportation, unavoidable casualties, or any cases beyond the Contractor's control, or by delay authorized by the City Manager or designee, or by any cause which the City Manager or designee shall decide to justify the delay, then the time of completion shall be extended for such reasonable time as the City Manager or designee may decide. No such extension shall be made for a delay that occurs more than seven (7) days before a claim is made in writing to the City Manager or designee. In the case of a continued cause of delay, only one (1) claim is necessary. This section does not exclude the recovery of damages for delay by either party under other provisions in the Contract Documents.

**CITY'S RIGHT TO TAKE OVER THE WORK**

If the Contractor shall be adjudged bankrupt, or if he/she should make a general assignment for the benefit of his/her creditors, or if a receiver should be appointed to take over his/her affairs, or if he /she should fail to prosecute his/her work with due diligence and carry the work forward in accordance with his/her work schedule and the time limits set forth in the Contract Documents, or if he/she should fail to substantially perform one or more of the provisions of the Contact Documents to be performed by him, the City may serve written notice on the Contractor and the Surety on his/her performance bond, stating its intention to exercise one of the remedies hereinafter set forth and the grounds upon which the City bases its right to exercise such remedy. In any event, unless the matter complained of is satisfactorily cleared within ten (10) days after the service of such notice, the City may, without prejudice to any other right or remedy exercise one of such remedies at once; having first obtained a certificate from the City Manager or designee that such sufficient cause exists to justify such action.

a. The City may terminate the services of the Contractor, which termination shall take effect immediately upon service of notice thereof on the Contractor and his Surety, whereupon the Surety shall have the right to take over and perform the Contract. If the Surety does not commence performance of the Contract within ten (10) ten days after service of the notice of termination, the City may itself take over the work, take possession of and use all materials, tools, equipment, and appliances on the premises and prosecute the work to completion by such means as it shall deem best. In the event of such termination of his service, the Contractor shall not be entitled to any further payment under his Contract until the work is completed and accepted. If the City takes over the work and if the unpaid balance of the Contract price when the City takes over the work exceeds the cost of completing the work, including compensation for damages or expenses incurred by the City through the default of the contractor, such excess shall be paid to the Contractor. In such event, if such cost, expenses, and damages shall

exceed such unpaid balance of the Contract price, the Contract and his Surety shall pay the difference to the City. The City Manager or designee shall certify such cost, expenses, and damages.

b. The City may take control of the work and either make good the deficiencies of the Contractor itself or direct the activities of the Contractor in doing so, employing such additional help as the City deems advisable. In such event, the City shall be entitled to collect from the Contractor and his Surety, or to deduct from any payment then or thereafter due the Contractor, the costs incurred by it through the default of the Contractor, provided the City Manager or designee approves the amount thus charged to the Contractor.

c. The City may require the Surety on the Contractor's bond to take control of the work at once and see to it that all deficiencies of the Contractor are made good with due diligence. As between the City and the Surety, the cost of making good such deficiencies shall all be borne by the Surety. If the Surety takes over the work, either upon termination of the services of the Contractor or upon instructions from the City to do so, the provisions of the Contract Documents shall govern in respect to the work done by the Surety, the Surety being substituted for the Contractor as to such provisions, including provisions as to the payment for the work and provisions of this section as to the right of the City to do the work itself or to take control of the work.

**RIGHT OF OCCUPANCY**

The City shall have the right, if necessary, to take possession of and to use any completed or partially completed portions of the work, if such use be approved by the City Manager or designee even if the time for completing the entire work or such portions of the work has not expired and even if the work has not been finally accepted. Such possession and use shall not constitute an acceptance of such possession and use if it materially interferes with the Contractor's operations. The City shall also have the right to enter the premises with the Contractor for the purpose of doing work not covered by its Contract.

**ACCEPTANCE**

Final inspection and acceptance of the work shall be made for the City by the City Manager or designee. Such inspection shall be made as soon as practical after the Contractor has notified the City in writing that the work is ready for such inspection.

**WAIVER**

It is expressly understood and agreed that any waiver granted by the City Manager or designee or the City of any term, provision or covenants of this Contract shall not constitute a precedent or breach of the same or any other terms, provisions, or covenants of this Contract. Neither the acceptance of the work by the City nor the payment of all or any part of the sum due the Contractor hereunder shall constitute a waiver by the City of any claim which the City may have against the Contractor or Surety under this Contract or otherwise.

**INSPECTION**

The City Manager or designee and his representative shall, at all times, have access to the work during its construction and shall be furnished with every reasonable facility for ascertaining that the stock and materials used and employed, and the workmanship, are in accordance with the requirements and intentions of the Plans. All work done and all materials furnished shall be subject to their inspection and approval by the City Manager or his designee. If any work should be covered up without approval or consent of City Manager or designee, it must, if required by the City Manager or designee, be uncovered for examination at the Contractor's expense.

The City Manager or designee may order re-examination of questioned work and if so ordered, the Contractor must uncover the work. If such work were found in accordance with the Contract Documents, the City shall pay the cost of re-examination and replacement. If such work be found not in accordance with the Contract Documents, the Contractor shall pay such cost unless he /she shall show that the defect in the work was caused by another Contractor, and in that event, the City shall pay such cost.

The inspection of the work shall not relieve the Contractor of any of his/her obligations to fulfill his/her Contract as prescribed, and defective work shall be made good and unsuitable materials shall be rejected, notwithstanding that such defective work and materials have been previously overlooked and accepted on estimates for payment. All work shall be tested to the satisfaction of the City Manager or designee before acceptance.

**AS-BUILTS**
As-Built drawings must be submitted on CD in .PDF and CADD file format.

**BID REVIEW AND CONTRACT AWARD**
The following criteria may be used in selection of the contractor (listed in no specific order): qualifications, competitive bid price, and demonstrated successful ability to complete similar projects as verified through references. Failure to submit all documents requested at the time of bid may deem the contractor's bid ineligible for award. The City of St. Pete Beach reserves the right to reject any or all proposals or parts of proposals or accept any proposal or part thereof deemed to be in the best interests to the City of St. Pete Beach. The City of St. Pete Beach also retains the right of selecting separate contractors for any particular item. The City shall be the sole final judge of qualifications of the bidder to perform service and reserves the exclusive right to accept or reject any bid proposals as it deems to be in the best interests of the City.

**LOCAL, STATE AND FEDERAL COMPLAINCE REQUIREMENTS**
The laws of the State of Florida do apply to any purchase made under this Request for Proposal. Proposers shall comply with all local, state, and federal directives, orders and laws as applicable to their proposal and subsequent contracts include but not limited to Equal Employment Opportunity, Minority Business Enterprise, and OSHA as applicable to this contract.

**A PROVISION FOR OTHER AGENCIES**
Unless otherwise stipulated by the proposer, the proposer agrees to make available to all Government agencies, departments, and municipalities the proposal prices submitted in accordance with said proposal terms and conditions therein, should any said governmental entity desire to buy under this proposal. Eligible users shall meet all State of Florida agencies, the legislative and judicial branches, political subdivisions (counties, local district school boards, community colleges, municipalities, or other public agencies or authorities), which may desire to purchase under the terms and conditions of this contract.

**BID BOND**
This project will require a 5% bid bond to be submitted with the proposal.

**RESERVES THE RIGHT**
The City reserves the right to accept or reject any and/or all proposals, to waive irregularities and technicalities, and to request re-submission. If only one proposal is received by the bid date and time listed, the proposal may or may not be rejected by the City depending upon bid review, available competition, and the needs of the City.

The City reserves the right to select a firm with or without interviews, and may decide to select any of the firms submitting proposals. The City reserves the right to award the contract to a responsible proposer submitting a responsible proposal, with a resulting negotiated agreement which is most advantageous and in the best interest of the City.

Proposers, bidders, their agents, and associates shall not contact or solicit any City Commission member, City employee, or official regarding this RFP during any phase of the bidding process. Failure to comply with the provision may result in disqualification of the bidder, at the option of the City. Only that individual listed, or an approved designee, as the contact person for this RFP shall be contacted.

## III.
## REFERENCES & QUALIFICATIONS

Provide at least (3) three or more professional, business references with which you have contracted to provide similar services in the past (5) five years. Include the name of the person, their organization and telephone number, fax number, and e-mail address. Include any governmental agencies, with the same contact and descriptive information for which you have provided similar service within the past (5) five years.

Provide a brief description of the history and capabilities of the firm. Describe the types of projects or services the firm performs/has performed and the dollar value of each. Provide information regarding your firm's ability to complete this project. Demonstrate that the firm's personnel have experience with similar projects.

Identify all unresolved and ongoing claims and disputes against your firm in excess of $500,000. Include any claims against the principals of your firm or any claims your company may have against a third party. Provide a history of litigation, including the outcomes, for the past (5) five years.

The responding firm shall provide a statement of assurance that the firm is not presently in violations of any statutes or regulatory rules that might have an impact on the firms operations. All applicable laws and regulations of the State of Florida and ordinances and regulations of the City of St. Pete Beach will apply.

Provide the overall bonding capacity for the company and provide a history of any claims against the bidder's previous bonds for the past five years.

The City shall be the sole final judge of qualifications of bidder to perform service and reserves the exclusive right to accept or reject any bid proposals as it deems to be in the best interests of the City. The City reserves the right to make such investigation, as it deems necessary, to determine the ability of any proposer to perform the work or service requested.

## IV.
## CERTIFICATE OF INSURANCE

### INSURANCE

Include in proposal an approved Certificate of Insurance furnished by the contractor's carrier to guarantee the contractor is insured. **Some insurance coverage requirements may not be applicable to all RFPs and contracts.**

### AWARD OF CONTRACT

The Contactor must file with the City of St Pete Beach certificates of insurance prior to commencement of work evidencing the City as a certificate holder with the following minimum coverage:

- Commercial Liability Insurance $1,000,000.00.
- Comprehensive General Liability Insurance of $1,000,000.00 each occurrence.
- Personal Injury for $1,000,000.00 each occurrence.
- Automobile Liability $1,000,000.00.
- General Workers Compensation Insurance as required by Florida law.
- Builder's Risk covering full value of the project with no coinsurance provision.
- Contractor's Pollution Liability Insurance Policy $1,000,000
- Marine General Liability Insurance including Longshore Harbor Worker's Compensation *(seawall, dock, and other waterway projects only)*

## V.
## PERFORMANCE BOND
## (EXAMPLE)

The Bidder shall, if awarded the contract, enter into a written Contract with the City of St. Pete Beach, Florida, and furnish a Contract Performance Bond in an amount equal to One-Hundred Percent (100%) of the bid for the performance of said Contract. Said Performance Bond shall be furnished within 10 consecutive calendar days after written notice being given of the award of the Contract.

STATE OF FLORIDA
COUNTY OF PINELLAS
CITY OF ST. PETE BEACH

BY THIS BOND, we,_

_____
(Contractor)

And

_____
(Surety), are held and firmly bound unto the City of St. Pete Beach, Florida, (hereinafter called "City"), in the sum of:

_____
$ _____, Lawful money of the United States of America, for the payment of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, and successors, jointly and severally, firmly by these presence:
THE CONDITION OF THIS BOND is that if Contractor:

1. Performs the Contract dated _____ between Contractor and City for construction of Project No._____, also known as _____ the contract being made a part of this Bond by reference, at the times and in the manner prescribed in the Contract; and
2. Promptly makes payments to all claimants, as defined in Section 255.051 (1), Florida Statutes; supplying Contractor with labor, materials, or supplies, used directly or indirectly by Contractor in the prosecution of the work provided for in the contract; and
3. Pays City all losses, damages, expenses, costs, and attorney's fees, including appellate proceedings, that City sustains because of a default by Contractor under the Contract; and
4. Performs the guarantee of all work and materials furnished under the Contract for the time specified in the Contract, then this Bond is void; otherwise it remains in full force; and

Any changes in or under the Contract Documents and compliance or noncompliance with any formalities connected with the Contract or the changes does not affect Surety's obligation under this Bond.

IN WITNESS WHEREOF, the said

_____
As Contractor herein has caused these presence to be signed in its name by its

_____
Under its Corporate Seal, and the said

_____
As Surety herein has caused these presence to be signed in its name by its

_____
Under its Corporate Seal,
This ____ day of _____, 20 _____.

**CONTRACTOR:** **WITNESS**

_____ _____

BY:

TITLE:

(SEAL)

**SURETY:** **WITNESS**

_____ _____

BY:

TITLE:

(SEAL)

## VI.

### CITY OF ST. PETE BEACH, FLORIDA
### PURCHASING AGREEMENT

THIS AGREEMENT is hereby executed this ___ day of _____, 20__, between the CITY OF ST. PETE BEACH, FLORIDA (hereinafter "CITY") and _____ _____ (hereinafter "VENDOR"), as follows:

WHEREAS, City is desirous of purchasing from Vendor the goods or services described in this agreement; and

WHEREAS, Vendor is in the business of providing the goods or services described herein, and has submitted an appropriate proposal to the City to provide the same; and

WHEREAS, this agreement has been properly approved by the appropriate authority of the City and the Vendor.

NOW, THEREFORE, upon the mutual covenants contained herein, and other good and valuable consideration, the sufficiency of which is hereby acknowledged, the parties hereto hereby agree to the following:

1. City hereby agrees to purchase, and Vendor hereby agrees to sell or provide, the goods or services described in the proposal attached hereto and incorporated herein.

2. Vendor shall deliver the goods, or provide the services, described herein no later than _____.

3. Time is of the essence in the performance of this contract. City shall be entitled to liquidated damages in the amount of $_____ per day, for each day subsequent to the date set forth in paragraph 2 hereof that Vendor has failed to properly and completely deliver all of the goods or provide all of the services herein specified. Vendor specifically acknowledges that the foregoing sum is reasonable and does not constitute a penalty.

4. Upon Vendor's satisfactory delivery of the goods, or full performance of the services, or in accordance with the payment schedule provided in the attached proposal, City shall pay Vendor the sum of $_____, as full consideration for the goods or services provided hereunder.

5. Vendor fully warrants the title to any goods provided hereunder, and agrees to defend the same against all claims whatsoever. At the time of delivery, Vendor shall furnish to the City a bill of sale absolute, with full warranties, or other evidence of title transfer satisfactory to the City, for the goods specified herein.

6. Vendor expressly warrants that all goods delivered hereunder are of merchantable quality and fit for the purpose for which the City has purchased the same. Vendor further warrants that any defects in the goods shall be properly repaired by Vendor for a period of _____ months from final delivery, including all parts and labor associated with said repairs.

7. City reserves the right to reject any defective goods, notwithstanding City's payment of the purchase price provided herein.

8. Vendor fully warrants that all services provided hereunder have been provided in a good and workmanlike manner. Vendor guarantees said services for a period of _____ months from the date of final performance. Vendor shall provide all labor and materials necessary to repair any defective workmanship reported to Vendor within said guarantee period.

9. To the extent that this agreement requires Vendor to provide any services of any kind, Vendor and all of Vendor's subcontractors shall maintain public liability insurance in a combined single limit for bodily injury and property damage in the amount of not less than $1,000,000.00, satisfactory to the City Manager of City, naming the City as additional insured and providing coverage up through and including the final performance of any services provided hereunder. Vendor and all of Vendor's subcontractors shall maintain in full force and affect a policy of worker's compensation insurance for all of Vendor's employees in accordance with applicable state and federal law. Said insurance coverage shall include employer's liability with a single limit of $100,000.00 per accident or occurrence. Vendor shall present City with a certificate for all of the foregoing insurance, at the time of executing this agreement and at such other times requested by the City. The Vendor waives all rights against the City, the City's consultants, separate contractors, if any, and any of its subcontractors, agents and employees, for damages caused loss to the extent covered by insurance described herein and obtained pursuant to this Section or other property insurance applicable to the services and product provided under this Contract. The City shall require of the Vendor, Vendor's consultants, separate contractors, if any, and the subcontractors, sub-subcontractors, agents and employees of any of them, by appropriate agreements, written where legally required for validity, similar waivers each in favor of other parties enumerated herein. The policies shall provide such waiver of subrogation by endorsement other otherwise. A waiver of subrogation shall be effective as to a person or entity even though that person or entity would otherwise have a duty of indemnification, contractual or otherwise, did not pay the insurance premium directly or indirectly, and whether or not the person or entity had an insurable interest in the property damaged.

10. In consideration of the payment of ten dollars as part of the above purchase price, Vendor shall indemnify, defend and hold the City harmless for itself, its employees, agents and assigns, from and against any and all losses, claims, damages, suits, actions, or demands, including attorney's fees and costs of litigation through all appellate proceedings, arising from the performance or non-performance of this agreement, whether caused in part by the City or not.

11. This Agreement shall be binding upon the parties, their successors, assigns, and legal representatives. Vendor shall not assign or otherwise transfer any of the rights or duties under this Agreement, without the express written consent of the City.

12. This document embodies the entire agreement of the parties. There are no promises, terms, conditions, or representations binding on either party hereto, other than those contained herein; and this document shall supersede all previous communications, representations, and/or agreements between the parties hereto, whether written or oral. This Agreement may be modified only in writing executed by all parties. This agreement shall be construed according to the laws of Florida, and venue for any action arising here from shall be in Pinellas County, Florida.

13. The prevailing party in any action to enforce or interpret this agreement shall be entitled to reasonable attorney's fees incurred through all appellate proceedings.

14. Vendor hereby acknowledges that the person executing this agreement on behalf of Vendor has the full authority to do so and to bind Vendor to the terms hereof.

15. Any notices provided hereunder shall be sent to the parties at the following addresses and shall be considered properly delivered when placed in the U.S. mail, postage prepaid, certified return receipt requested:

| As to Vendor: | As to City: |
|---|---|
| _____ | City Manager<br>City of St. Pete Beach, Florida<br>155 Corey Avenue<br>St. Pete Beach, Florida 33706 |
| _____ | |

16. To the extent that any terms in the attached proposal conflict with the terms of this agreement, the terms of this agreement shall control and supersede such conflicting terms in the attached proposal, to the extent of such conflict.

17. The following sections, paragraphs or provisions of the attached proposal are hereby deleted from this agreement and shall be of no force or effect:

_____

_____

IN WITNESS WHEREOF, the parties hereto have caused this Agreement to be executed on the day and year first above written.

| | |
|---|---|
| _____<br>Vendor | CITY OF ST. PETE BEACH, FLORIDA |
| BY _____ | BY_____<br>CITY MANAGER |
| _____<br>NAME, TITLE (typed or printed) | |
| APPROVED AS TO FORM: | ATTEST: |
| _____<br>CITY ATTORNEY | _____<br>CITY CLERK |

## VII.

## Bidder's Checklist

Bidder's Check List

- [ ] Bidder's Contract Proposal Form
- [ ] Bid Schedule, Price, and Product Information
- [ ] Project Schedule
- [ ] References and Qualifications (Three or More)
- [ ] Certificate of Insurance
- [ ] Bond (if required - refer to RFQ)
- [ ] Contractor Proof of License
- [ ] List of Subcontractors (also include Subcontractors License and Insurance Information)
- [ ] Contractor Education and Training
- [ ] Acknowledgement of Addenda

Contractor:_____

Contact Name:_____

Contact Number:_____

*The City of St. Pete Beach reserves the right to reject any or all proposals or parts of proposals or to accept any proposal or part thereof deemed to be in the best interests to the City of St. Pete Beach. The City of St. Pete Beach also retains the right of selecting separate contractors for any particular repair items, if applicable. Failure to submit the required bid submittals could result in a contractor's bid being deemed incomplete, nonresponsive, or non-compliant with bid specifications and will not be reviewed for price or eligible for contract award.*

# VIII.

# Contractor Education

**City of St. Pete Beach**
Public Services Department
155 Corey Avenue
St. Pete Beach, Florida 33706-1839
Phone: 727-363-9254 * Fax: 727-367-2736
www.stpetebeach.org

# Contractor Education & Training

In concurrence with NPDES MS4 requirements, our staff has reviewed information and training materials on the topic of erosion and sediment control, illicit discharges, along with spill prevention and response as provided by the City of St. Pete Beach through the website and video links provided below.

**Illicit Discharges:**

Illicit Discharges Illicit Discharge Training Video - Part 1 Illicit Discharge Training Video - Part 2

**Construction Activities & BMPs:**

Discharges from Construction Activities Construction Site Stormwater Runoff Control
BMP Inspection and Maintenance Stormwater and the Construction Industry

**Erosion and Sedimentation Control:**

Erosion and Sedimentation Control

**Spill Prevention and Control:**

Spill Prevention and Control

**Local Resources:**

Pinellas County Watershed Management - Stormwater Runoff
Pinellas County Watershed Management City of St. Pete Beach Stormwater Fact Sheet
City of St. Pete Beach Public Services Department

**Company Name:** _____

**Signature:** _____

**Name/Title:** _____

**Date:** _____

All site inspectors and site operators must be certified through the Florida Stormwater, Erosion and Sedimentation Control Inspector Training and certification program or an equivalent program approved by FDEP. All certification documents and copies of licenses must be provided to the City.

**IX.**

**Vendor Form**

# New Vendor Request Form

## *Vendor Information*

Name: _____

Address: _____

City: _____ State: ____ Zip Code: _____

Telephone: _____ Fax: _____

Tax ID#: _____

(Employer ID Number i.e. 59-9999999 or Social Security Number i.e. 999-99-9999)

**Vendor Numbers will not be assigned without Tax ID Number!!!!**

## *Payment/Remittance Address*

(Where checks are to be mailed)

Address: _____

City: _____ State: ____ Zip Code: _____

Telephone: _____ Fax: _____

(Accounts Receivable Phone) (Accounts Receivable Fax)

## *Information Provided by*

Name: _____

Telephone: _____ Fax: _____

Rev. 12/10/2009

# X.
# Bid Documents - Drawings

GENESIS GROUP
FROM VISION TO REALITY

Engineering
Landscape Architecture
Planning
Survey
GIS

3910 U.S. Highway 301 N.
Suite 140
Tampa, Florida 33619

Tel 813.620.4500
Fax 813.620.4980
www.GenesisGroup.com

*"2006 Small Business of the Year"*

April 11, 2012

Ms. Ann Kramer, RLA, District Landscape Architect
FDOT District 7
11201 N. McKinley Drive
MS 7-1200
Tampa, FL 33612

**RE: DESIGN OF CITY-WIDE LANDSCAPE IMPROVEMENTS - RESUBMITTAL**
**PINELLAS BAYWAY (SR 682), TOLL PLAZA TO GULF BLVD.**
**GULF BLVD. (SR 699), PINELLAS BAYWAY TO 75TH AVENUE**
**75TH AVENUE (SR 693), BLIND PASS RD. TO BRIDGE**
**BLIND PASS RD. (SR 699), 75TH AVENUE TO 93RD AVENUE**

Dear Ms. Kramer:

Genesis, on behalf of the City of St. Pete Beach, respectfully submits five sets of revised Landscape and Irrigation Construction Plans to accompany these Responses to Comments, as follows:

**FDOT Plan Review Comments**
Project: Citywide Landscape Improvements,
Pinellas Bayway (SR 682), Gulf Blvd (SR 699), 75th Ave (SR 693) and Blind Pass Rd (SR 699)
FP# 428885-3-58-01, 428885-4-58-01, and 429468-6-58-01
Contracts AQ560, AQ561, and AQ603
Date: 4/03/2012 Responses: 4/11/2012
From Anne, Will and Brian

1. LS-06 It appears that plants are on top of existing utility boxes. Please clarify.

   ***Response: See response to #2 below. Plants can be field adjusted to avoid any conflict.***

2. IR-06 What are the 6 underground boxes existing in the median?

   ***Response: FDOT-provided base information did not identify the utilities. Field review located an irrigation controller, electrical POC, valve, backflow preventer, and water meter, all apparently out of service for an extended time. Notes are added to the plans to coordinate with the City prior to dem0lition or construction for disposition of these existing appliances.***

3. LS-29 Note 15: Existing soil within 2' of BC (back of curb) to remain.

   ***Response: Note 15.A. on Sheet LS-29 is revised to state "Existing soilw within 2 ft of back of curb to remain in place".***

4. LS-29 The City is to call FDOT Pinellas Maintenance Yard 48 hours in advance of any lane closure at 727-570-5101. Call FDOT Pinellas Maintenance office 2 weeks in advance of construction to locate highway lighting conduit. Do not block existing traffic signs or devices.

   ***Response: A note is added to Sheet LS-29 stating the City of St. Pete Beach's responsibility to contact Pinellas Maintenance Yard prior to lane closure, to contact Pinellas Maintenance Office prior to construction to locate lighting conduit, and to ensure signs and devices are not blocked.***

5. LS-30 Maintenance Note 7 mentions pine bark mulch, but plans call for crushed shell. Please clarify.

   ***Response: Note 7 on LS-30 is revised to reference crushed shell mulch.***

6. IR-01 Is any irrigation piping going under the road? If yes, a utility permit is required.
   IR-02
   IR-06

   ***Response: A note is added to Sheet IR-29 stating that should any road crossing for irrigation piping be required, the contractor shall obtain required utility permits from FDOT prior to construction.***

7. IR-01 Roadside irrigation doesn't show any mainline, or any road crossings. Please clarify.
   IR-02
   IR-03
   IR-04

   ***Response: It is the contractor's responsibility to locate main line piping, and determine whether existing sleeving can be utilized. A note is added on Sheet IR-29 is revised to specifically require the contractor to locate and portray main line piping, sleeving, and any proposed roadway crossings for FDOT and City review and approval.***

8. Make sure we see the drip irrigation design prior to construction.

   ***Response: Note 6 on Sheet IR-29 is modified to require FDOT review and approval for contractor irrigation design.***

9. MOT plans not legible.

   ***Response: MOT plans are enlarged to individual 11" x 17" sheets.***

Please contact me should you have any questions or require additional information. We look forward to your favorable review.

Sincerely,

Jim Gilman, RLA, ISA
Project Manager

CC: Renee Cooper / City of St. Pete Beach
Bruce T. Kaschyk, AICP / Genesis Group
File (6140-001)

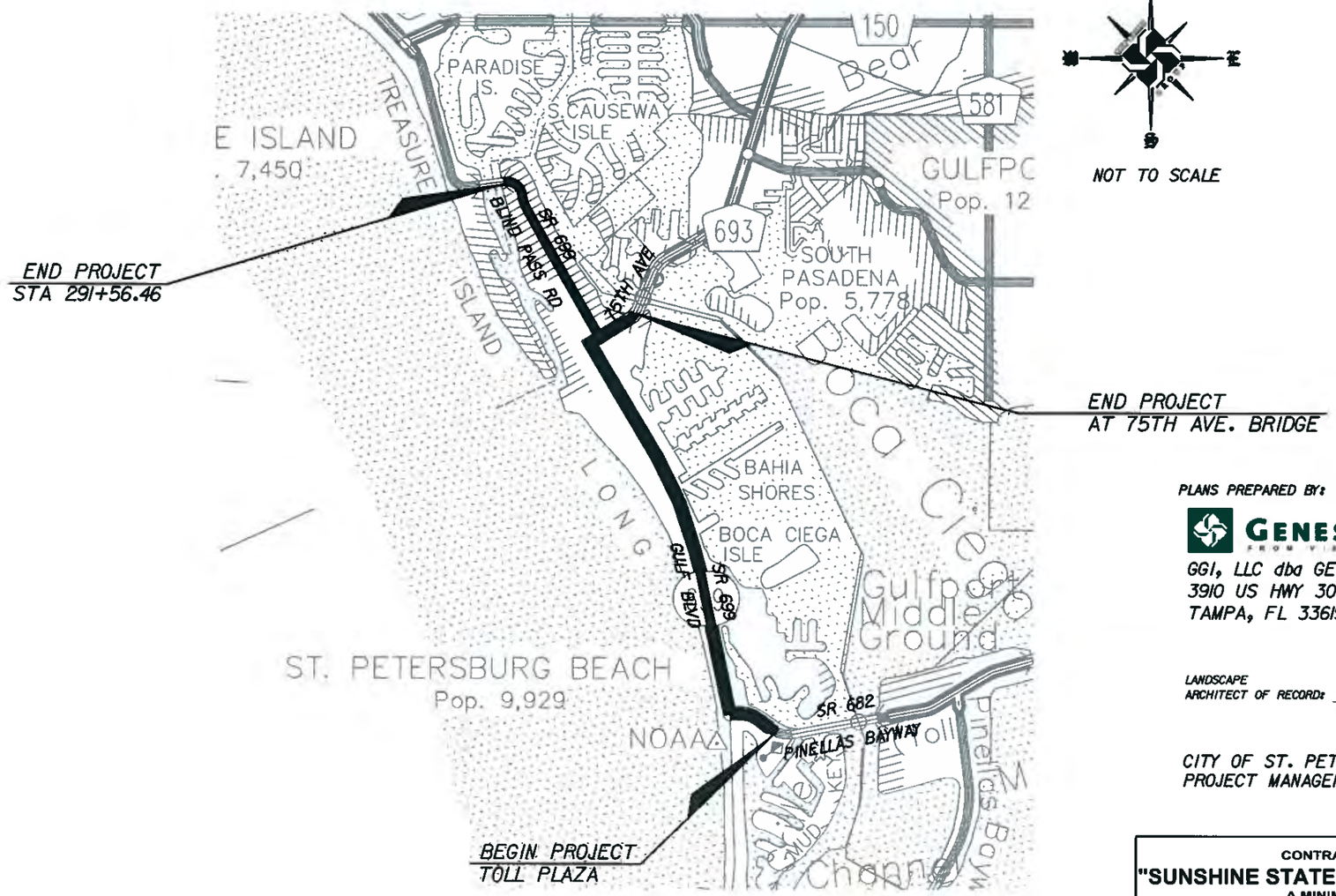
# CITY OF ST. PETE BEACH

## INDEX OF LANDSCAPE PLANS


| SHEET NO. | SHEET DESCRIPTION |
|---|---|
| COVER | COVER SHEET |
| KS-01 thru KS-03 | KEYSHEETS |
| LS-01 thru LS-28 | LANDSCAPE PLANS |
| LS-29 thru LS-31 | LANDSCAPE NOTES & DETAILS |
| IR-01 thru IR-28 | IRRIGATION PLANS |
| IR-29 thru IR-32 | IRRIGATION NOTES & DETAILS |
| MOT-01 thru MOT-11 | MOT AND EROSION CONTROL DETAILS |


## DESIGN OF CITYWIDE LANDSCAPE IMPROVEMENTS

PINELLAS BAYWAY (SR 682), TOLL PLAZA TO GULF BLVD.
GULF BLVD. (SR 699), PINELLAS BAYWAY TO 75TH AVE.
75TH AVE. (SR 693), BLIND PASS RD. TO BRIDGE
BLIND PASS RD. (SR 699), 75TH AVE. TO 93RD AVE.




NOT TO SCALE

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

PLANS PREPARED BY:

GENESIS GROUP
FROM VISION TO REALITY


GGI, LLC dba GENESIS GROUP
3910 US HWY 301 N., SUITE 140
TAMPA, FL 33619

LANDSCAPE ARCHITECT OF RECORD: JAMES S. GILMAN, R.L.A.
R.L.A. NO.: 1628

CITY OF ST. PETE BEACH
PROJECT MANAGER: RENEE COOPER


| KEY SHEET REVISIONS | | |
|---|---|---|
| DATE | BY | DESCRIPTION |
| | | |

CONTRACTOR SHALL CALL
**"SUNSHINE STATE ONE CALL" 1-800-432-4770**
A MINIMUM OF 2-DAYS AND
A MAXIMUM OF 5-DAYS PRIOR TO START OF CONSTRUCTION.


printed by: jean April 6, 2012 10:17:46 EST F:\SHARED\CAD\CAD_LAYS\40-001-StPeteBeach-Cover.dwg (Cover Sheet)

February 28, 2012 (10:04:58 EST)
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SHEET TITLE

KEYSHEET 1

PROJECT NAME

DESIGN OF CITYWIDE LANDSCAPE IMPROVEMENTS

SHEET NUMBER

KS-01

SEAL

James Scott Gibson, RLA, LEED AP
License Number 1828

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FL CA 0000980 FL LA 0000816 FL LC 26000202

PREPARED FOR

CITY OF ST. PETE BEACH

| NO. | DATE | DESCRIPTION |
|---|---|---|

REVISIONS

| DESIGNED BY: | CHECKED BY: | PROJECT NUMBER 6140-001 |
|---|---|---|
| DRAWN BY: | SCALE: AS SHOWN | PRINT DATE |

# MEDIAN 1E

EXISTING WASHINGTON PALM; TO REMAIN (TYP.)

1 WASHINGTON PALM

EXISTING PHOENIX PALM; TO REMAIN (TYP.)

153 DWARF INDIAN HAWTHORN; 24" O.C.

LIMIT OF CLEAR SIGHT (TYP.)

CLEAR ZONE (TYP.)

4 'VERA' BOUGAINVILLEA; 36" O.C.

9003

9002

9001

MATCHLINE LS-02

MULCH STRIP

BACK OF CURB (TYP.)

193 PARSONS JUNIPER; 24" O.C.

2 MEDJOOL DATE PALM

EXISTING WASHINGTON PALM; TO REMAIN (TYP.)

555 SF PERENNIAL PEANUT SOD

3,343 SF PERENNIAL PEANUT SOD

2 CANARY ISLAND DATE PALM; RELOCATED FROM GULF BOULEVARD

PINELLAS BAYWAY (SR 682)

110 DWARF YOUPON HOLLY; 24" O.C.

32 YELLOW NECKLACE POD; 4' O.C.

GRANADA STREET

24 WAX MYRTLE; 5' O.C.

10 SILVER BUTTONWOOD; 15' O.C.

CLEAR AND GRUB TO 35' FROM BACK OF CURB (TYP.)

N NE E SE S SW W NW

20' 0 20'

( IN FEET )
1 inch = 20' ft.

**NOTE:**
**CONTRACTOR TO LOCATE AND PROTECT VERIZON FIBER OPTIC CABLE ON SOUTH SIDE OF ROADWAY**

March 23, 2012 (10:56:40 EST)
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| NO. | DATE | DESCRIPTION |
|---|---|---|

REVISIONS

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DRAWN BY: CJM
CHECKED BY: JSG
SCALE: AS SHOWN
PROJECT NUMBER: 6140-001
PRINT DATE:


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PREPARED FOR
CITY OF ST. PETE BEACH

SEAL
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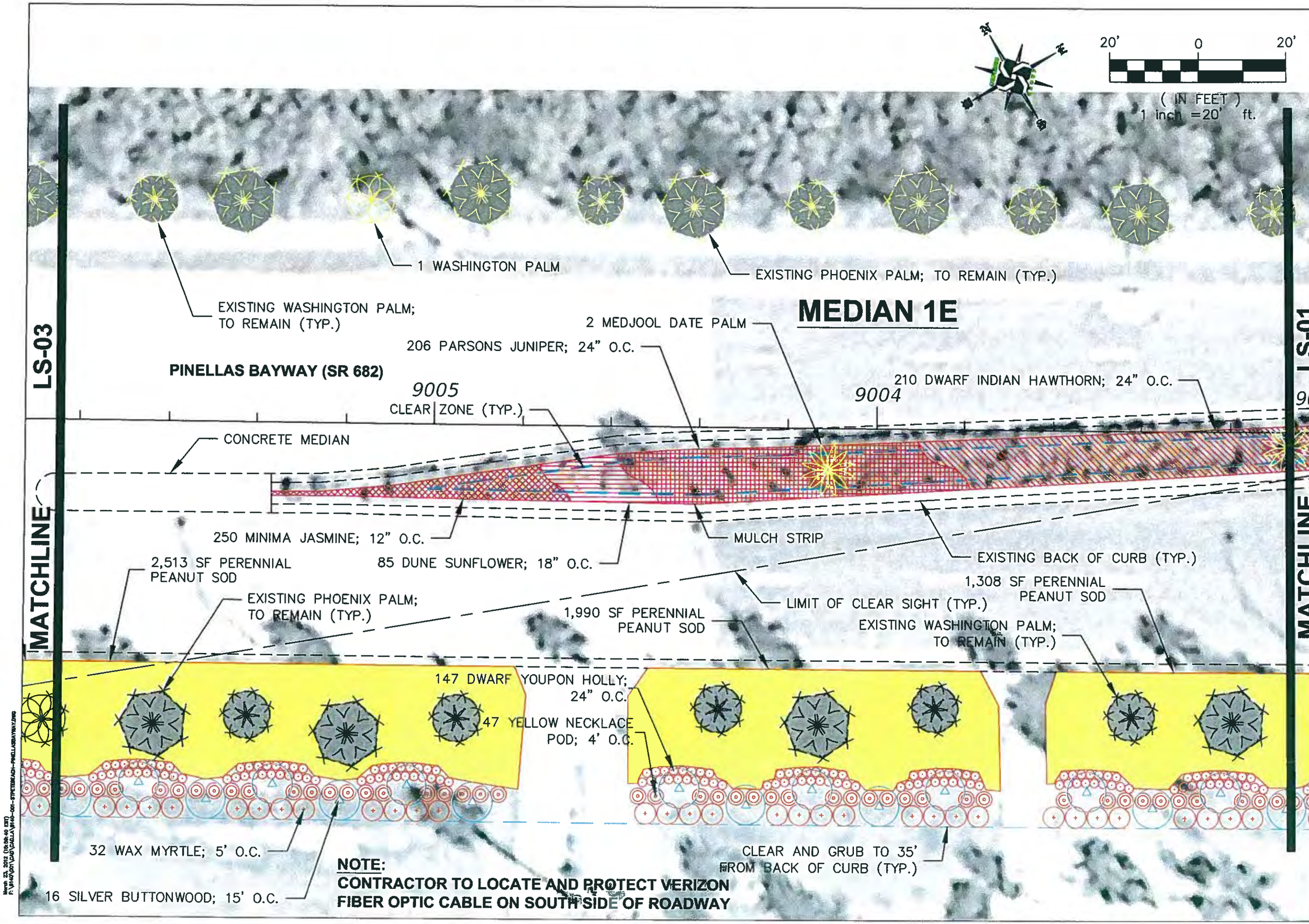
License Number 1828

SHEET TITLE
LANDSCAPE PLANS

PROJECT NAME
DESIGN OF CITYWIDE LANDSCAPE IMPROVEMENTS

SHEET NUMBER
LS-01




NO. DATE DESCRIPTION

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CITY OF ST. PETE BEACH

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SHEET TITLE
LANDSCAPE PLANS

PROJECT NAME
DESIGN OF CITYWIDE LANDSCAPE IMPROVEMENTS

SHEET NUMBER
LS-02

March 23, 2012 (10:06:40 EST)
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20' 0 20'

( IN FEET )
1 inch = 20' ft.

1 WASHINGTON PALM

EXISTING WASHINGTON PALM;
TO REMAIN (TYP.)

EXISTING PHOENIX PALM; TO REMAIN (TYP.)

**MEDIAN**
(BY OTHERS)

PINELLAS BAYWAY (SR 682)

9008 9007 9006

LS-04

LS-02

MATCHLINE

MATCHLINE

EXISTING WASHINGTON PALM;
TO REMAIN (TYP.)

1,667 SF PERENNIAL
PEANUT SOD

244 SF PERENNIAL
PEANUT SOD

474 SF PERENNIAL
PEANUT SOD

1,405 SF PERENNIAL
PEANUT SOD

596 SF PERENNIAL
PEANUT SOD

EXISTING PHOENIX PALM;
TO REMAIN (TYP.)

LIMIT OF CLEAR SIGHT (TYP.)

1 WASHINGTON PALM

BARCELONA
STREET

CLEAR AND GRUB TO 35'
FROM BACK OF CURB (TYP.)

25 WAX MYRTLE; 5' O.C.

9 SILVER BUTTONWOOD; 15' O.C.

120 DWARF YOUPON HOLLY;
24" O.C.

31 YELLOW NECKLACE
POD; 4' O.C.

**NOTE:**
**CONTRACTOR TO LOCATE AND PROTECT VERIZON FIBER OPTIC CABLE ON SOUTH SIDE OF ROADWAY**

March 23, 2012 (10:50:40 EST)
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| NO. | DATE | DESCRIPTION |
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REVISIONS

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CITY OF ST. PETE BEACH

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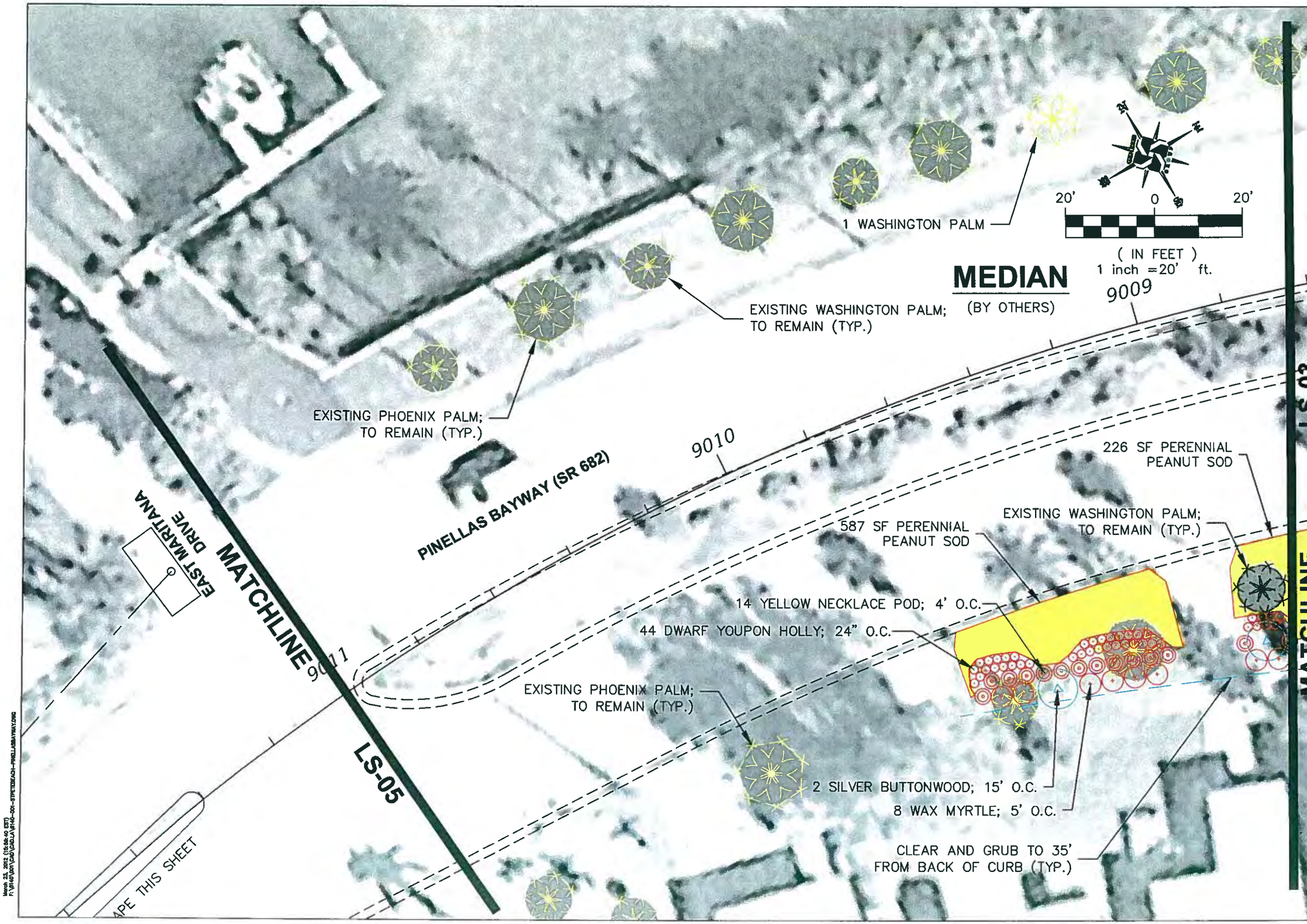
License Number 11025

SHEET TITLE
LANDSCAPE PLANS

PROJECT NAME
DESIGN OF CITYWIDE
LANDSCAPE IMPROVEMENTS

SHEET NUMBER
LS-03

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SHEET TITLE
LANDSCAPE PLANS

PROJECT NAME
DESIGN OF CITYWIDE LANDSCAPE IMPROVEMENTS

SHEET NUMBER
LS-04

March 23, 2012 (10:06:40 EST)
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PRINT DATE:

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License Number 1625

SHEET TITLE
LANDSCAPE PLANS

PROJECT NAME
DESIGN OF CITYWIDE
LANDSCAPE IMPROVEMENTS

SHEET NUMBER
LS-05

March 23, 2012 (10:26:40 EST)
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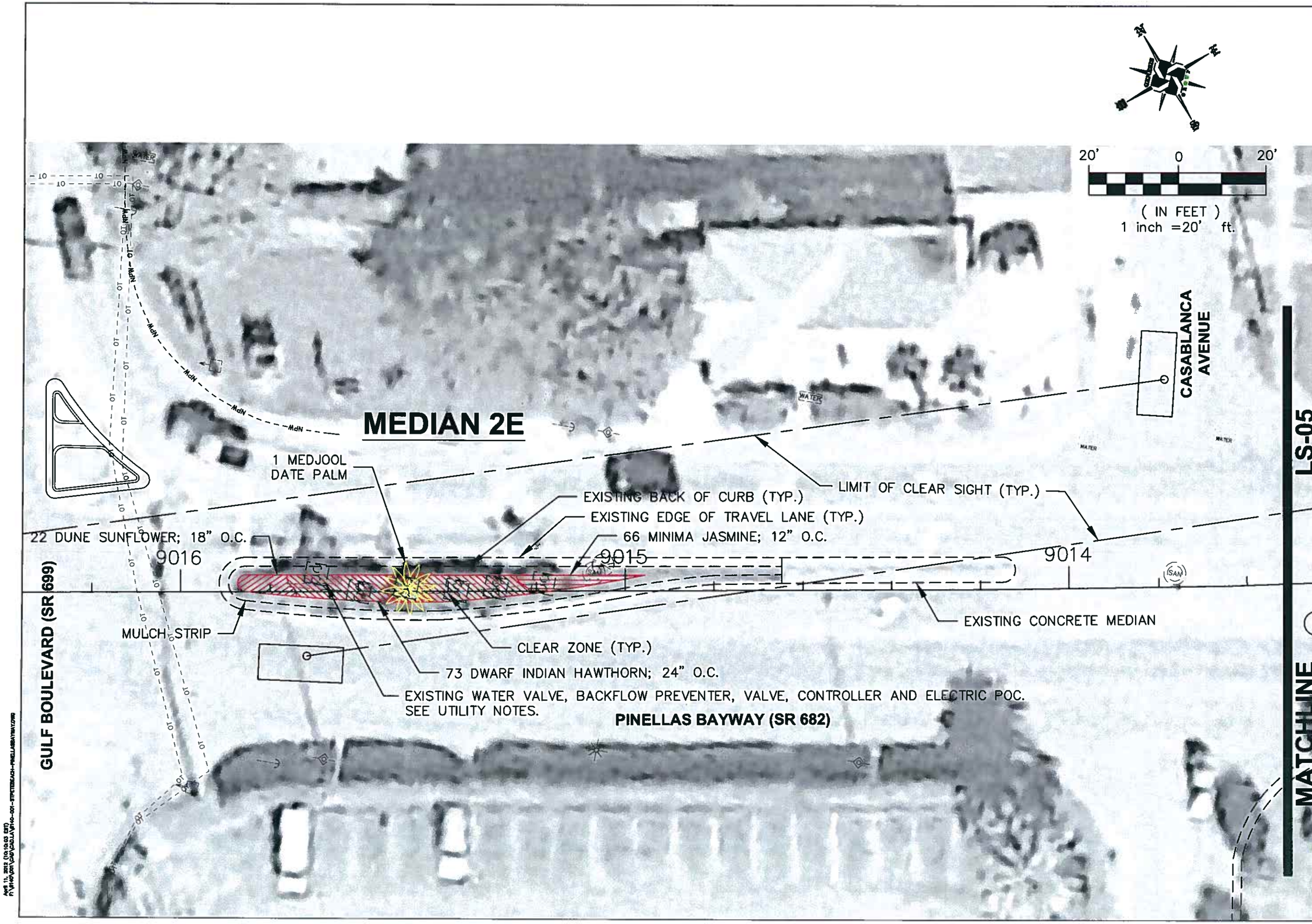


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License Number 1628

SHEET TITLE
LANDSCAPE PLANS

PROJECT NAME
DESIGN OF CITYWIDE LANDSCAPE IMPROVEMENTS

SHEET NUMBER
LS-06

April 11, 2012 (10:10:03 EST)
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# GENERAL NOTES

1. CONTRACTOR SHALL INSTALL PLANT MATERIAL AS INDICATED ON THE PLANS AND IN ACCORDANCE WITH FDOT STANDARD SPECIFICATION SECTION 580 AND FDOT STANDARD INDEX NO. 544 DATED 2010 UNLESS OTHERWISE SPECIFIED IN THESE PLANS.

2. THE CONTRACTOR SHALL BE FNGLA – CERTIFIED AS A "CERTIFIED LANDSCAPE CONTRACTOR".

3. PLANT STAKING SHALL BE IN ACCORDANCE WITH DETAILS PROVIDED.

4. ALL PLANT MATERIAL SHALL BE INSPECTED AND APPROVED BY THE PROJECT ADMINISTRATOR AT THE GROWING SITE, NURSERY OR HANDLING AREA DESIGNATED FOR THE PROJECT SITE. ALL GRADABLE NURSERY PLANTS SHALL BE FLORIDA NO. 1 GRADE OR BETTER AS DESCRIBED IN "GRADES AND STANDARDS FOR NURSERY PLANTS," STATE OF FLORIDA, SECOND EDITION.

5. THE CONTRACTOR SHALL NOTIFY THE PROJECT ADMINISTRATOR AT A MINIMUM OF 72 HOURS PRIOR TO DELIVERY OF TREES AND SHRUBS SO THAT A REPRESENTATIVE MAY BE PRESENT TO VERIFY PLANT MATERIALS MEET FLORIDA NO. 1 STANDARDS. AFTER INITIAL ACCEPTANCE, THE CONTRACTOR IS RESPONSIBLE FOR THE HEALTH AND MAINTENANCE FOR ALL PLANT MATERIAL. MAINTENANCE SHALL INCLUDE BUT IS NOT LIMITED TO REPLACEMENT, PRUNING, WATERING, FERTILIZATION AND PEST MANAGEMENT. ALL PLANT MATERIAL SHALL BE MAINTAINED TO THE ORIGINAL STANDARDS.

6. NO SUBSTITUTIONS OF SPECIFIED PLANT MATERIALS WILL BE PERMITTED UNLESS SPECIFIED BY THE PROJECT ADMINISTRATOR.

7. THE CONTRACTOR SHALL LAYOUT THE PROPOSED DESIGN FOR APPROVAL BY THE PROJECT ADMINISTRATOR. NO PLANTS WILL BE INSTALLED WITHOUT THE PROJECT ADMINISTRATOR'S APPROVAL. IF ANY CHANGES ARE PROPOSED TO THE DESIGN (PLANT TYPES, SIZE, LOCATION OR SPACING, PLANT ARRANGEMENTS, BEDLINE DESIGN, ETC) THE PROJECT ADMINISTRATOR SHALL BE CONTACTED. NO CHANGES WILL BE MADE WITHOUT THE PROJECT ADMINISTRATOR'S APPROVAL.

8. THE ESTABLISHMENT PERIOD FOR WATERING AND MAINTENANCE BY THE CONTRACTOR SHALL BE 365 DAYS FROM PROJECT ACCEPTANCE. (REFERENCE 365 DAY ESTABLISHMENT PERIOD MAINTENANCE PLAN). THE CONTRACTOR SHALL REQUEST AN ESTABLISHMENT PERIOD INSPECTION 30 DAYS PRIOR TO THE END OF THE 365 DAY ESTABLISHMENT PERIOD. A REPRESENTATIVE FROM THE CITY OF ST. PETE BEACH SHALL BE IN ATTENDANCE AT THE ESTABLISHMENT PERIOD INSPECTION.

9. THE CONTRACTOR SHALL RESTRICT PERSONNEL, THE USE OF EQUIPMENT AND THE STORAGE OF MATERIALS TO AREAS WITHIN THE LIMITS OF CONSTRUCTION AS DESCRIBED IN THE PLANS. ANY OFF-SITE STORAGE AREA WILL REQUIRE PRIOR REVIEW BY THE PROJECT ADMINISTRATOR.

10. CONTRACTOR SHALL NOT CAUSE CONDITIONS OF EROSION AT ANY TIME DURING CONSTRUCTION.

11. CONTRACTOR SHALL NOTIFY THE PROJECT ADMINISTRATOR IMMEDIATELY OF ANY UNFORESEEN SITE CONDITIONS (COMPACTED SOIL/SUBGRADE, POOR DRAINAGE, UTILITY CONFLICTS, ETC.) PRIOR TO PROCEEDING WITH LANDSCAPE INSTALLATION.

12. CONTRACTOR SHALL SUBMIT SOIL ANALYSES RESULTS AND RECOMMENDATIONS FROM AN APPROVED AGRONOMIC SOILS TESTING LABORATORY TO THE PROJECT ADMINISTRATOR FOR REVIEW AND APPROVAL, PRIOR TO COMMENCEMENT OF PLANTING OPERATIONS. ANALYSIS SHALL INCLUDE PH, ORGANIC CONTENT AND SOLUBLE SALTS AT A MINIMUM. CONTRACTOR SHALL, UPON PROJECT ADMINISTRATOR'S APPROVAL, AMEND PLANTING AREAS AS RECOMMENDED.

13. LANDSCAPE MATERIAL AND ASSOCIATED DEVICES SHALL BE ADJUSTED IN THE FIELD TO AVOID CONFLICTS WITH ANY PROPOSED OR EXISTING TO REMAIN UTILITY STRUCTURES, DRAINAGE STRUCTURES, DITCHES, UNDERDRAINS, DITCH BLOCK, STORM WATER MANAGEMENT FACILITIES DRAINAGE DISCHARGE PATHS, TRAFFIC SIGNAGE, LIMITS OF CLEAR SIGHT, LIGHTING AND THEIR APPURTENANCES. THE CONTRACTOR SHALL NOT KNOWINGLY PLACE THE PROPOSED IMPROVEMENTS IF A CONFLICT EXISTS. ANY COSTS TO REMOVE AND/OR REPAIR WORK PLACED THAT HAS NOT BEEN APPROVED BY THE PROJECT ADMINISTRATOR SHALL BE AT THE CONTRACTOR'S EXPENSE.

14. THE CONTRACTOR SHALL BE RESPONSIBLE FOR RESTORING ALL SOD AREAS INADVERTENTLY DISTURBED AND NOT SPECIFICALLY DESIGNATED ON PLANS, WITH SOD AT HIS OWN COST. ALL REPLACEMENT SOD SHALL COMPLY WITH FDOT SPECIFICATIONS AND SHALL MATCH EXISTING. ANY DISTURBED AREAS SHALL BE SMOOTHLY GRADED PRIOR TO THE INSTALLATION OF SODDING.

15. PLANTING AREA PREPARATION SHALL OCCUR AS FOLLOWS:

    A. IN ROADWAY MEDIANS ALONG GULF BOULEVARD (MEDIANS 3E-25P), CONTRACTOR SHALL REMOVE 18" OF EXISTING SOIL AND REPLACE WITH MIXTURE SPECIFIED IN NOTE 17A. 9" DEPTH OF EXCAVATED SOIL SHALL BE REMOVED FROM SITE. EXISTING SOIL WITHIN 2' OF BACK OF CURB TO REMAIN IN PLACE.
    B. IN ROADWAY MEDIANS DESIGNATED "E" PRESERVE EXISTING PLANTS DESIGNATED TO REMAIN ON PLANS. CLEAR AND GRUB ALL OTHER AREAS.
    C. ROADSIDE PLANTING AREAS, PRESERVE EXISTING PLANTS DESIGNATED TO REMAIN ON PLANS. CLEAR AND GRUB ALL OTHER AREAS.

16. "BLENDED SOIL" SHALL CONSIST OF: 1/3 MUSHROOM COMPOST OR PEAT, 1/3 COMPOSTED COW MANURE AND 1/3 COMPOSTED BARK.

17. PLANTING BACKFILL SHALL BE AS FOLLOWS:

    A. IN ROADWAY MEDIANS ALONG GULF BOULEVARD (MEDIANS 3E-25P), REPLACEMENT SOIL SHALL BE 50% "BLENDED SOIL" AND 50% EXISTING SOIL THOROUGHLY MIXED. SOIL SURFACE SHALL BE AT 3" BELOW TOP OF CURB AFTER SETTLING.
    B. IN ALL OTHER PLANTING AREAS WITHIN THE PROJECT, MIXTURE FOR INDIVIDUAL PLANTING PITS SHALL CONSIST OF 1/3 "BLENDED SOIL" 1/3 COARSE SAND AND 1/3 EXISTING SOIL, THOROUGHLY MIXED.

18. WATER FOR PLANT ESTABLISHMENT SHALL BE PROVIDED BY IRRIGATION SYSTEM AND PER THE FOLLOWING SCHEDULE:

    TREES: AT EACH IRRIGATION APPLY 2-3 GALLONS PER INCH OF TRUNK CALIPER TO THE ROOT BALL. APPLY IT SO THAT ALL WATER SOAKS INTO THE ROOT BALL. DO NOT WATER IF ROOT BALL IS WET OR SATURATED ON THE IRRIGATION DAY.

    SHRUBS AND GROUNDCOVER: AT EACH IRRIGATION APPLY WATER TO WET THE ENTIRE DEPTH OF ROOT BALL. DO NOT WATER IF ROOT BALL IS WET OR SATURATED ON THE IRRIGATION DAY.

    SOD: SOAK THOROUGHLY TO 3" BELOW DEPTH OF ROOT ZONE. DO NOT WATER IF ROOT ZONE IS WET OR SATURATED ON IRRIGATION DAY. APPLY WATER IN A MANNER SO ALL WATER SOAKS INTO THE ROOT BALL. WATERING FOR PLANT ESTABLISHMENT SHALL INCLUDE OR EXCEED THE FOLLOWING WATERING REQUIREMENTS.

    WATERING REQUIREMENTS (BASED ON ED GILMAN, U OF F):

| SIZE OF NURSERY STOCK: | IRRIGATION FOR GROWTH AND VIGOR |
|---|---|
| < 2 INCH CALIPER | DAILY FOR 2 WEEKS; EVERY OTHER DAY FOR 2 MONTHS; WEEKLY UNTIL ESTABLISHED |
| 2-4 INCH CALIPER | DAILY FOR 1 MONTH; EVERY OTHER DAY FOR 3 MONTHS; WEEKLY UNTIL ESTABLISHED |
| > 4 INCH CALIPER | DAILY FOR 6 WEEKS; EVERY OTHER DAY FOR 5 MONTHS; WEEKLY UNTIL ESTABLISHED |

19. MULCHING SHALL BE AS FOLLOWS:

    A. IN ALL AREAS, MULCH SHALL BE CRUSHED SHELL, 2" DEPTH AFTER SETTLING.

20. EXCESS EXCAVATED MATERIAL FROM PLANTING PITS AND FROM ROADWAY MEDIANS SHALL BE REMOVED FROM THE SITE DAILY AND DISPOSED OF IN A LAWFUL MANNER.

21. FERTILIZER FOR INITIAL INSTALLATION OF TREES, SHRUBS, GROUNDCOVER AND FOR GRASSING AND SOD AREAS SHALL BE CONTROLLED RELEASE FERTILIZER WITH A 15-9-12 ANALYSIS, AND CONTAINING TRACE ELEMENTS Mg, S, B, Cu, Fe, Mn, Mo, AND Zn. FERTILIZER GRANULES SHALL BE COMPOSED OF DRY NUTRIENTS ENCAPSULATED IN MULTIPLE LAYERS OF POLYMERIC RESIN. INCORPORATE FERTILIZER INTO PLANTING SOILS AND BACKFILL. APPLICATION RATES SHALL BE AS FOLLOWS:

| | |
|---|---|
| 0.5 OZ. PER EA. 4" POT OR PLANT LINER | 9.0 OZ. PER EA. 15 GALLON CONTAINER |
| 1.0 OZ. PER EA. 1 GALLON CONTAINER | 14.0 OZ. PER EA. 20 GALLON CONTAINER |
| 2.0 OZ. PER EA. 2 GALLON CONTAINER | 20.0 OZ. PER EA. 30 GALLON CONTAINER |
| 3.0 OZ. PER EA. 3 GALLON CONTAINER | 30.0 OZ. PER EA. 45 GALLON CONTAINER |
| 5.0 OZ. PER EA. 5 GALLON CONTAINER | 44.5 OZ. PER EA. 65 GALLON CONTAINER |
| 6.0 OZ. PER EA. 7 GALLON CONTAINER | 69.0 OZ. PER EA. 100 GALLON CONTAINER |
| 8.5 OZ. PER EA. 10 GALLON CONTAINER | 136.0 OZ. PER EA. 200 GALLON CONTAINER |

    FOR GRASSING AND SOD AREAS:
    APPLY 40#/1000SF.

22. CONTAINERIZED PLANTS: A MINIMUM OF 80% OF THE CONTAINER ROOT BALL MUST BE BOUND BY THE ROOT SYSTEM. ENCIRCLING OR "RING" ROOTS ARE PROHIBITED.

23. PRE-EMERGENT HERBICIDE SHALL BE APPLIED TO ALL MULCHED PLANTING IN BEDS AND INDIVIDUAL MULCH RINGS. THE HERBICIDE ACTIVE INGREDIENTS SHALL BE SUITABLE FOR CONTROL OF ANNUAL AND PERENNIAL BROADLEAF WEEDS AND GRASSES. THE HERBICIDE SHALL BE APPLIED BY HAND AFTER PLANTING AND BEFORE PLACING MULCH. THE HERBICIDE SHALL BE APPLIED AT A RATE RECOMMENDED BY THE MANUFACTURER.

24. THE CONTRACTOR SHALL NOT BRING ANY HAZARDOUS MATERIALS ONTO THE PROJECT. SHOULD THE CONTRACTOR REQUIRE SUCH FOR PERFORMING CONTRACTED WORK, THE CONTRACTOR SHALL REQUEST, IN WRITING, PERMISSION FROM THE PROJECT ADMINISTRATOR. THE CONTRACTOR SHALL PROVIDE A COPY TO THE DISTRICT CONTAMINATION IMPACTS COORDINATOR (DCIC). THE CONTRACTOR SHALL PROVIDE THE DCIC WITH A COPY OF THE MATERIAL SAFETY DATA SHEET (MSDS) FOR EACH HAZARDOUS MATERIAL PROPOSED FOR USE. THE PROJECT ADMINISTRATOR SHALL COORDINATE WITH THE DCIC PRIOR TO ISSUING WRITTEN APPROVAL TO THE CONTRACTOR. STATE LAW DOES NOT RECOGNIZE PETROLEUM PRODUCTS THAT ARE PROPERLY CONTAINERIZED AND INTENDED FOR EQUIPMENT USE AS A HAZARDOUS MATERIAL, THEREFORE, SUCH PRODUCTS WILL NOT REQUIRE A MSDS SUBMITTAL. ANY KNOWN OR SUSPECTED HAZARDOUS MATERIAL FOUND ON THE PROJECT BY THE CONTRACTOR SHALL BE IMMEDIATELY REPORTED TO THE PROJECT ADMINISTRATOR WHO SHALL DIRECT THE CONTRACTOR TO PROTECT THE AREA OF KNOWN OR SUSPECTED CONTAMINATION FROM FURTHER ACCESS. THE PROJECT ADMINISTRATOR SHALL NOTIFY THE DCIC OF THE DISCOVERY. THE DCIC WILL ARRANGE FOR INVESTIGATION, IDENTIFICATION AND REMEDIATION OF THE HAZARDOUS MATERIAL. THE CONTRACTOR SHALL NOT RETURN TO THE AREA OF CONTAMINATION UNTIL APPROVAL IS PROVIDED BY THE PROJECT ADMINISTRATOR.

25. CONTRACTOR SHALL SUBMIT A MAINTENANCE OF TRAFFIC PLAN FOR DEPARTMENT REVIEW PRIOR TO CONSTRUCTION. FDOT M.O.T. RULES SHALL BE STRICTLY ADHERED TO THROUGHOUT CONSTRUCTION. COSTS FOR M.O.T. ARE INCLUDED IN THE COST OF THE PROJECT.

26. WORK ZONE TRAFFIC CONTROL SHALL BE IN ACCORDANCE WITH STANDARD INDEX 611, 612, 613, 616 AND 619. LANE CLOSURES ARE RESTRICTED TO 60 MINUTES OR LESS AND WILL ONLY BE ALLOWED BETWEEN THE HOURS OF 9:30 AM AND 3:30 PM. LANE CLOSURES EXCEEDING 60 MINUTES WILL NOT BE ALLOWED DURING DAYLIGHT HOURS. SHOULD LANE CLOSURES DURING OFF PEAK HOURS EXCEEDING 60 MINUTES IN DURATION BE REQUIRED, THESE WILL BE RESTRICTED TO THE HOURS OF 9:00 PM TO 6:00 AM. LANE CLOSURES WILL NOT BE ALLOWED ON FRIDAY AND SATURDAY NIGHT. A LANE MAY ONLY BE CLOSED DURING WORK PERIODS. LANE CLOSURES WILL NOT BE ALLOWED DURING HOLIDAYS AS DEFINED IN SECTION 1-3 OF THE FDOT STANDARD SPECIFICATIONS. ALL LANES MUST BE REOPENED TO NORMAL TRAFFIC WITHIN TWELVE HOURS DURING AN EVACUATION NOTICE OF A HURRICANE OR ANY OTHER CATASTROPHIC EVENT AND SHALL REMAIN OPEN FOR THE DURATION OF EVENT AS DIRECTED BY THE PROJECT ADMINISTRATOR.

27. THE PROJECT INFORMATION SIGNS ARE TO BE INSTALLED AT THE BEGINNING AND END OF THE PROJECT LIMITS PER FDOT INDEX 600. COSTS FOR FURNISHING AND INSTALLING THE SIGNS ARE TO BE INCLUDED IN THE PROJECT PRICE.

28. THE CONTRACTOR IS REQUIRED TO COMPLY WITH STANDARD INDEX 102 TEMPORARY EROSION AND SEDIMENT CONTROL. THE COST OF EROSION CONTROL SHALL BE INCLUDED IN THE COST OF THE PROJECT.

29. THE CITY OF ST. PETE BEACH SHALL CALL FDOT PINELLAS MAINTENANCE YARD 48 HOURS IN ADVANCE OF ANY LANE CLOSURES AT (727) 570-5101. THE CITY SHALL CALL FDOT MAINTENANCE OFFICE 2 WEEKS IN ADVANCE OF CONSTRUCTION TO LOCATE HIGHWAY LIGHTING CONDUIT. THE CITY SHALL ENSURE THAT EXISTING SIGNS OR DEVICES ARE NOT BLOCKED.

# PLANTING REQUIREMENTS

THE CONTRACTOR SHALL PREPARE FOR PLANTING AS FOLLOWS:

1. STAKE LOCATIONS AND LIMITS OF PLANTS AND PLANTING BEDS TO REFLECT PLANS TO GREATEST EXTENT POSSIBLE. COORDINATE WITH PROJECT ADMINISTRATOR TO VIEW LAYOUT AND STAKE TREE AND PALM LOCATIONS ON SITE. CONTRACTOR SHALL MAKE MODIFICATIONS AS MAY BE REQUESTED.

2. ONCE BED LOCATIONS ARE APPROVED AND TREE AND PALM LOCATIONS ARE STAKED, AND CONFIRMED TO NOT BE IN CONFLICT WITH TRAFFIC CONTROL SIGNAGE OR OTHER CONFLICTS, EXCAVATE TREE PITS AT DIAMETER / SIZE DETAILED. THE DEPTH OF THE HOLE SHALL BE TWO (2) INCHES SHALLOWER THAN THE ROOT BALL; THEN DIG DEEPER AROUND THE HOLE'S PERIMETER, CREATING A FIRM CENTRAL PLATEAU SO THAT EXCESS WATER WILL FLOW AWAY FROM ROOT BALL.

3. PLACE THE ROOT BALL ON THE PLATEAU, MAKING SURE IT IS 1 TO 1½ INCHES HIGHER THAN THE SURROUNDING SOIL

4. WORK ROOT BALL TO ENCOURAGE SPREADING AND GROWTH.

5. FILL AND TAP FIRMLY AROUND EACH AND EVERY PLANT. FLUSH WITH WATER AND MAKE ADJUSTMENTS TO PROVIDE PROPERLY SET PLANT MATERIAL WITH THE TOP OF ROOT BALL EVEN WITH FINISHED GRADE AND WITH ROOT FLARE ABOVE GRADE FOR TREES.

6. BUILD SAUCER TO CONTAIN WATER AROUND EACH TREE SAUCER AND SHRUB PLANTING BED. REMOVE EXCESS EXCAVATED SOIL FROM THE SITE.

7. MULCH WITH PINE BARK NUGGETS, 3" SETTLED DEPTH. KEEP MULCH AWAY FROM DIRECT CONTACT WITH PLANT TRUNKS/STEMS.

8. CONTINUE TO WATER AS PER WATERING SCHEDULE SPECIFIED IN THESE PLANS. THEREAFTER, WATER TO COMPENSATE FOR LACK OF WATER.

| NO. | DATE | DESCRIPTION |
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REVISIONS

DESIGNED BY:
CHECKED BY:
DRAWN BY:
SCALE: AS SHOWN
PROJECT NUMBER 6140-001
PRINT DATE

GENESIS GROUP
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PREPARED FOR
CITY OF ST. PETE BEACH

SEAL
James Scott Gibson, R.A. LEED® AP
License Number 16239

SHEET TITLE
LANDSCAPE NOTES

PROJECT NAME
DESIGN OF CITYWIDE LANDSCAPE IMPROVEMENTS

SHEET NUMBER
LS-29

April 8, 2013 (09:40:02 EST)
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## UTILITY NOTES

1. UTILITIES LOCATIONS ON THE PLANS ARE APPROXIMATE ONLY. THESE HAVE NOT BEEN VERIFIED EITHER HORIZONTALLY OR VERTICALLY.
2. THE CONTRACTOR SHALL NOTIFY ALL UTILITIES TWO BUSINESS DAYS PRIOR TO DEMOLITION AND/OR EXCAVATION. CALL "SUNSHINE STATE ONE CALL SYSTEM" 1-800-432-4770 OR CALL 811 SO THAT UNDERGROUND UTILITIES MAY BE FIELD LOCATED.
3. FDOT AREA UTILITY COORDINATOR: MS. KATASHA CORNWELL (813) 975-6784.
4. A UTILITY REPRESENTATIVE SHALL BE PRESENT IF LANDSCAPING REQUIRES ANY EXCAVATIONS GREATER THAN 36".
5. THE CONTRACTOR SHALL COORDINATE WITH THE UTILITY COMPANIES DURING CONSTRUCTION. NO UTILITY IS TO BE RELOCATED. PLANTING SHALL BE ADJUSTED HORIZONTALLY, AT THE DIRECTION OF THE PROJECT ADMINISTRATOR, TO NEGATE ANY UTILITY CONFLICTS.
6. EXTREME CAUTION SHALL BE TAKEN TO IDENTIFY AND PROTECT EXISTING POTABLE AND RECLAIMED WATER MAINS BENEATH MEDIANS FROM STA. ±113 TO STA. ± 205 ALONG GULF BOULEVARD.
7. MEDIAN 2E CONTAINS EXISTING UTILITIES INCLUDING ELECTRIC POC, IRRIGATION CONTROLLER, BACKFLOW PREVENTER, AND WATER METER. CONTRACTOR TO COORDINATE WITH THE CITY PRIOR TO DEMOLITION OR CONSTRUCTION FOR DISPOSITION OF THE EXISTING APPLIANCES.

## 365 DAY ESTABLISHMENT PERIOD MAINTENANCE PLAN

THE FOLLOWING OPERATIONS SHALL BE PERFORMED BY THE CONTRACTOR DURING THE 365 DAY MAINTENANCE PERIOD. THE CONTRACTOR SHALL ASSUME RESPONSIBILITY FOR THE PROPER MAINTENANCE, SURVIVAL AND CONDITION OF ALL LANDSCAPE ITEMS FOR A PERIOD OF ONE YEAR AFTER THE FINAL ACCEPTANCE OF ALL WORK UNDER THE CONTRACT. THE CONTRACTOR SHALL PROVIDE A WARRANTY/MAINTENANCE BOND IN ACCORDANCE WITH STANDARD SPECIFICATION 580-5.

1. FERTILIZER
   APPLY THREE (3) TIMES DURING THE ESTABLISHMENT PERIOD.
2. WEEDING
   WEEDING OF ALL LANDSCAPED AREAS SHALL BE DONE ON A ROUTINE BASIS COINCIDING WITH MOWING AND EDGING SCHEDULES OR AS FREQUENT AS NECESSARY TO MAINTAIN WEED FREE PLANTING AREAS DURING THE ESTABLISHMENT PERIOD. IN GENERAL, WEEDS EXCEEDING 2" SHALL BE IMMEDIATELY REMOVED FROM PLANTING AREAS. WEED REMOVAL SHALL BE DONE MANUALLY (HAND PULLING) AND HERBICIDES MAY BE UTILIZED IN PROBLEM AREAS. APPLICATION OF HERBICIDES SHALL BE DONE WITH EXTREME CAUTION TO PREVENT POTENTIAL DAMAGE TO LANDSCAPE AND AQUATIC PLANTINGS.
3. HERBICIDE/PESTICIDE
   A. ALL PERSONNEL INVOLVED IN THE CHEMICAL PROGRAM ARE TO RECEIVE PROPER TRAINING AND FOLLOW THE OPERATING GUIDELINES PROVIDED BY THE FDOT FOR CHEMICAL CONTROL. CONTACT THE LOCAL COUNTY AGRICULTURAL EXTENSION SERVICE FOR ADDITIONAL INFORMATION REGARDING HERBICIDE, PESTICIDE AND REQUIRED LICENSES.
   B. ANY INVASIVE, EXOTIC SPECIES FOUND DURING THE ESTABLISHMENT PERIOD SHALL BE REMOVED.
   C. PROVIDE PLANT MATERIAL INSECT AND DISEASE CONTROL INSPECTIONS CONTINUALLY DURING THE ESTABLISHMENT PERIOD AND TREAT AS NECESSARY.
6. PRUNING
   PLANT PRUNING (HAND PRUNING, NOT SHEARING) SHALL BE THE PRIMARY METHOD OF SHAPE AND SIZE CONTROL AND SHALL BE ACCOMPLISHED UNDER THE SUPERVISION OF AN EXPERIENCED SPECIALIST TO ENSURE THIS FUNCTION IS IN ACCORDANCE WITH RECOMMENDED HORTICULTURAL PRACTICES.

   SELECTIVE HAND PRUNING SHALL BE PERFORMED AS NECESSARY ON ALL ORNAMENTAL TREES AND SHRUBS IN ORDER TO MAINTAIN THE NATURAL HABIT OF THE PLANT AND ENSURE HEALTH AND VIGOR THROUGHOUT THE ESTABLISHMENT PERIOD.
7. MULCH
   MULCHING SHALL BE CRUSHED SHELL, CONTINUOUS THROUGHOUT PLANTING BEDS. MAINTAIN MULCH RINGS EQUAL IN DIAMETER TO PLANTING PITS FOR ALL INDIVIDUAL PALMS. SUPPLEMENT ALL MULCHING AS NECESSARY TO MAINTAIN A 2" COMPRESSED DEPTH THROUGHOUT THE ESTABLISHMENT PERIOD.
8. SPECIAL CARE REQUIREMENTS
   ENSURE THAT ALL HARDSCAPE ELEMENTS ARE PROTECTED DURING THE ESTABLISHMENT PERIOD. THIS INCLUDES THE PERIODIC INSPECTION AND CLEANING OF ALL HARDSCAPE ITEMS AS NECESSARY TO ASSURE A WELL KEPT LANDSCAPE ENVIRONMENT. CLEAN ALL HARDSCAPE ITEMS PRIOR TO FINAL INSPECTION.
9. LITTER PICK-UP
   DURING THE ESTABLISHMENT PERIOD, ENSURE LITTER PICKUP MONTHLY, AT A MINIMUM.
10. WORK ZONE CONTROL PLAN
    APPROVED TRAFFIC CONTROL MEASURES SHALL BE UTILIZED DURING ALL MAINTENANCE ACTIVITIES.
11. STAKING
    A. CONTRACTOR SHALL MAINTAIN ALL TREE/PALM STAKING FOR THE DURATION OF THE ESTABLISHMENT PERIOD.
    B. CONTRACTOR TO REMOVE ALL TREE STAKING UPON FINAL ACCEPTANCE AT THE END OF THE ESTABLISHMENT PERIOD.

## UTILITY CONTACT INFORMATION

Sanitary Sewer, Reclaimed Water, and Stormwater belong to the City of St. Pete Beach

Potable Water – Pinellas County Utilities – Engineering
6730 142nd Ave. North, Largo, 33771

Telephone – Verizon – Bob Cash
1280 Cleveland Street, Clearwater, 33755

Electric – Progress Energy
299 First Ave. North, PEF 122, St. Petersburg, 33701

Cable – Brighthouse – Sherelle Darroch
700 Carillon Parkway, Suite 6, St. Petersburg, 33716

Gas – Teco – Jeff Frazier
1920 9th Ave North, St. Petersburg, 33713

## LANDSCAPE SYMBOL LEGEND

SHORE JUNIPER
DWARF YOUPON HOLLY
DWARF INDIAN HAWTHORN
MINIMA JASMINE
VARIEGATED ASIATIC JASMINE
CORAL HONEYSUCKLE
DUNE SUNFLOWER
SOCIETY GARLIC
PARSONS JUNIPER
'VERA' BOUGANVILLEA
NECKLACE POD
PERENNIAL PEANUT SOD

ROEBELENII PALM
EXISTING ROEBELENII PALM
EXISTING CASSIA TREE
MEDJOOL DATE PALM
EXISTING MEDJOOL DATE PALM
WASHINGTON PALM
EXISTING WASHINGTON PALM
EXISTING PHOENIX PALM
RELOCATED CANARY ISLAND DATE PALM
SILVER BUTTONWOOD
WAX MYRTLE
YELLOW NECKLACE POD
DWARF YOUPON HOLLY

## PLANT LIST

| COMMON NAME | SCIENTIFIC NAME | UNIT | QUANTITY | SIZE | MINIMUM SPECIFICATIONS |
|---|---|---|---|---|---|
| **SHRUBS/GROUNDCOVER** | | | | | |
| SHORE JUNIPER | JUNIPERUS CONFERTA 'BLUE PACIFIC' | EA | 20 | 3 GALLON | 10" SPREAD, FULL |
| DWARF YAUPON HOLLY | ILEX VOMITORIA 'SCHILLINGS' | EA | 1,055 | 3 GALLON | 12" HT. X 12" SPD., FULL |
| DWARF INDIAN HAWTHORN | RHAPHIOLEPIS INDICA 'ALBA' | EA | 1,263 | 3 GALLON | 12" HT. X 12" SPD., FULL |
| VARIEGATED ASIATIC JASMINE | TRACHELOSPERMUM ASIATICUM 'VARIEGATUM' | EA | 40 | 1 GALLON | 3-4 RUNNERS, 10", FULL |
| MINIMA ASIATIC JASMINE | TRACHELOSPERMUM ASIATICUM 'MINIMA' | EA | 1,345 | 1 GALLON | 3-4 RUNNERS, 10", FULL |
| DUNE SUNFLOWER | HELIANTUS DEBILIS | EA | 553 | 1 GALLON | 10" HT. X 8" SPD., FULL |
| SOCIETY GARLIC | TULBAGHIA VIOLACEA | EA | 604 | 1 GALLON | 8" HT. X 8" SPD. FOLIAGE, FULL |
| PARSONS JUNIPER | JUNIPERUS SQUAMATA EXPANSA 'PARSONII' | EA | 1,547 | 3 GALLON | 6" HT. X 12-14" SPD., FULL |
| VERA BOUGAINVILLEA | BOUGAINVILLEA 'VERA DEEP PURPLE' | EA | 94 | 3 GALLON | 12" HT. X 12" SPD., FULL |
| WAX MYRTLE | MYRICA CERIFERA | EA | 89 | 7 GALLON | 36" HT. X 24" SPD., FULL |
| YELLOW NECKLACE POD | SOPHORA TOMENTOSA VAR. TRUNCATA | EA | 129 | 3 GALLON | 18" HT. X 12-14" SPD., FULL |
| CORAL HONEYSUCKLE | LONICERA SEMPERVIRENS | EA | 15 | 1 GALLON | 4-5 RUNNERS, 12", FULL |
| **SOD** | | | | | |
| PERENNIAL PEANUT SOD | ARACHIS GLABRATA | SF | 18,348 | SOD | ROLLS 30"X80' |
| **PALMS** | | | | | |
| WASHINGTON PALM | WASHINGTONIA ROBUSTA | EA | 4 | 10 FT CLEAR TRUNK | MATCHED SPECIMENS |
| MEDJOOL DATE PALM | PHOENIX DACTYLIFERA 'MEDJOOL' | EA | 34 | 16 FT CLEAR TRUNK | MATCHED SPECIMENS |
| ROEBELENII DATE PALM | PHOENIX ROEBELENII | EA | 7 | 5 FT CLEAR TRUNK | DOUBLE TRUNK, MATCHED SPECIMENS |
| **TREES** | | | | | |
| SILVER BUTTONWOOD | CONOCARPUS ERECTUS SERICEUS | EA | 37 | 15 GALLON | 5-6 FT. HT. X 2.5-3 FT. SPD., FULL |

| NO. | DATE | DESCRIPTION |
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| | | REVISIONS |

DESIGNED BY:
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SCALE: AS SHOWN
PROJECT NUMBER 6140-001
PRINT DATE:

GENESIS GROUP
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PREPARED FOR
CITY OF ST. PETE BEACH

SEAL
James Scott Green, R.A., LEED® AP
License Number 16128

SHEET TITLE
LANDSCAPE NOTES

PROJECT NAME
DESIGN OF CITYWIDE LANDSCAPE IMPROVEMENTS

SHEET NUMBER
LS-30

April 11, 2012 (11:26:30 EST)
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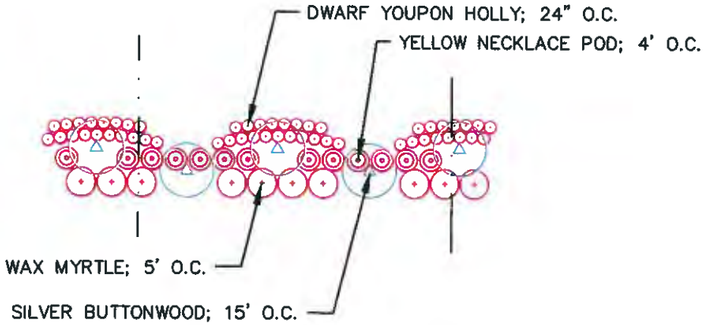
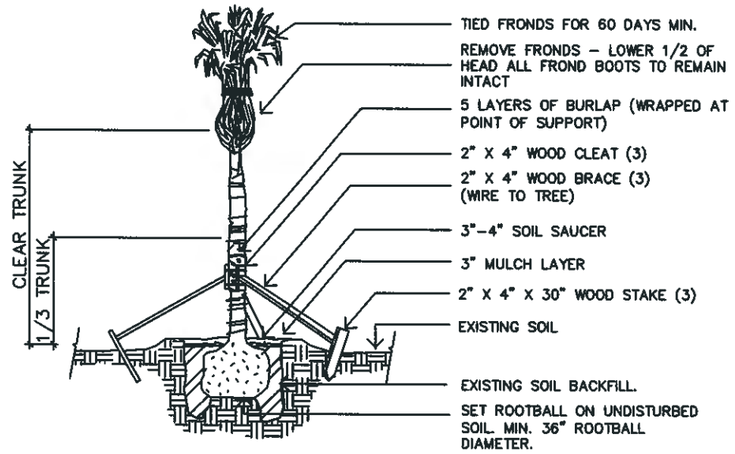



## TYPICAL BUFFER PLANTING DETAIL

ROAD SIDE – SOUTH SIDE OF PINELLAS BAYWAY

N.T.S.




## TYPICAL WASHINGTON PALM PLANTING DETAIL

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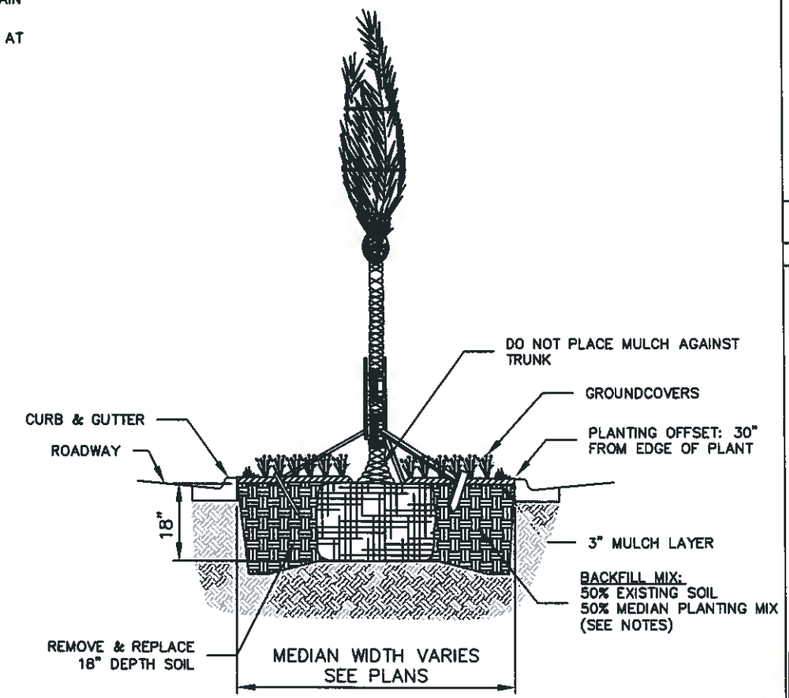


## TYPICAL MEDIAN PLANTING DETAIL

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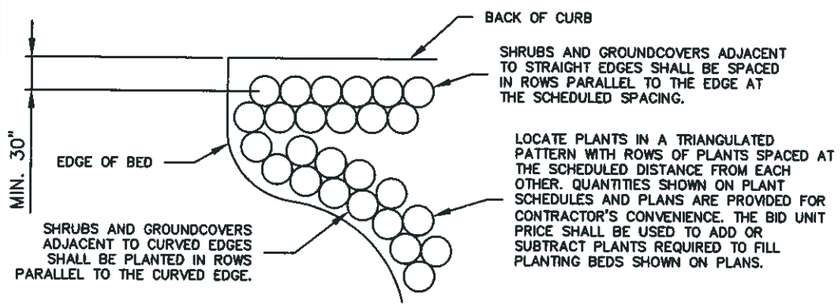


## MEDIAN PLANTING SHRUB AND GROUNDCOVER LAYOUT DETAIL

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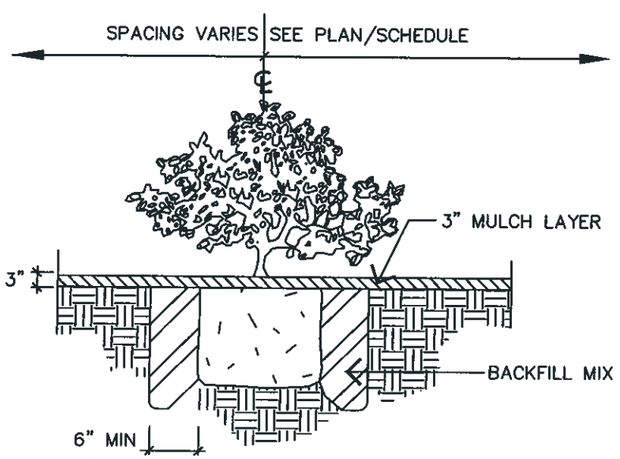


## TYPICAL SHRUB/GROUNDCOVER PLANTING

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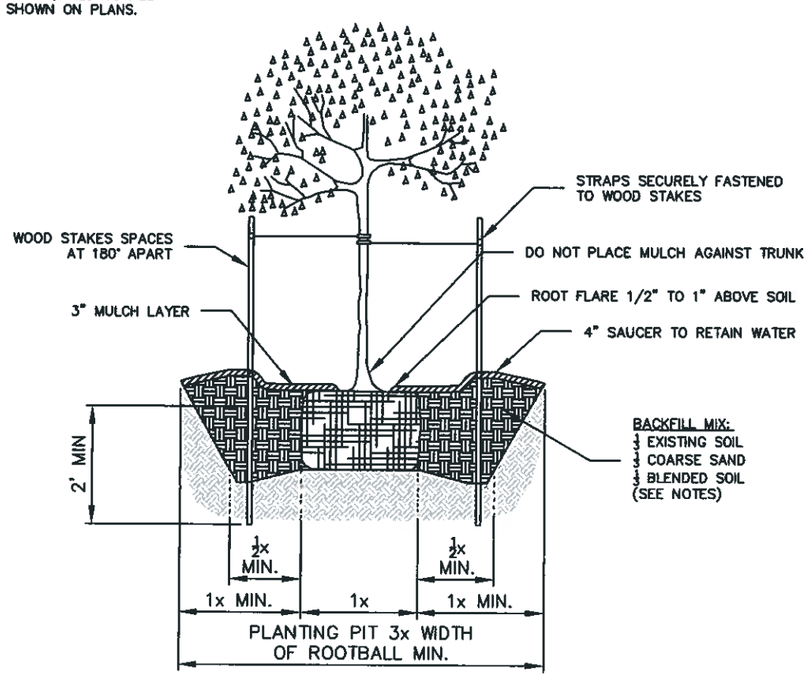
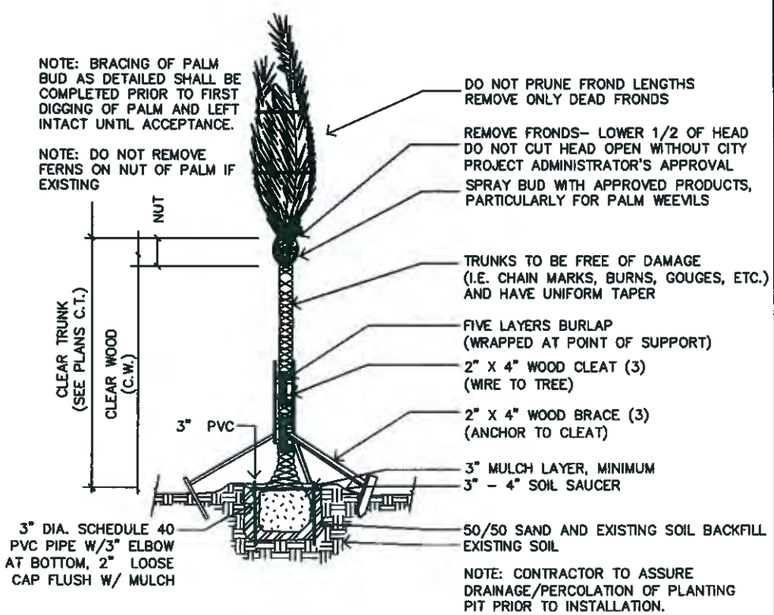



## TYPICAL TREE PLANTING DETAIL

N.T.S.




## PHOENIX PALM PLANTING DETAIL

N.T.S.

| NO. | DATE | DESCRIPTION |
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| | | |

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PROJECT NUMBER 6140-001
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PREPARED FOR: CITY OF ST. PETE BEACH

SEAL: James Scott Gilman, R.A. LICENSE NO. 18228

SHEET TITLE: LANDSCAPE DETAILS

PROJECT NAME: DESIGN OF CITYWIDE LANDSCAPE IMPROVEMENTS

SHEET NUMBER: LS-31

March 26, 2012 (08:27:10 EST)
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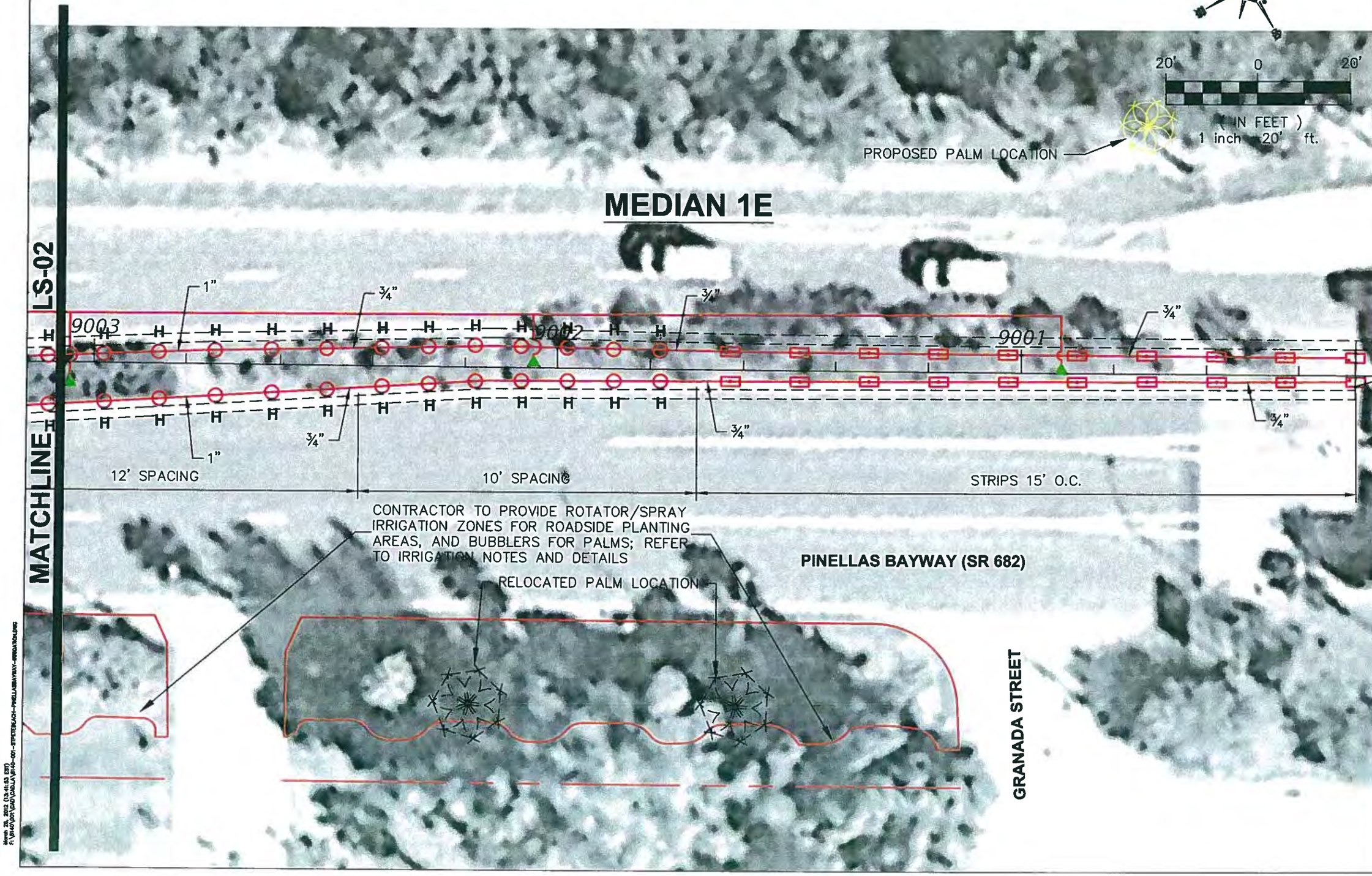
NOTE: IRRIGATION PIPING IS SHOWN DIAGRAMMATICALLY. PIPING, HEADS, VALVES, ETC. SHALL BE PLACED WITHIN PLANTING AND SOD AREAS WHEREVER FEASIBLE. ADJUST LOCATIONS TO MINIMIZE LENGTH OF RUNS.

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PREPARED FOR: CITY OF ST. PETE BEACH

| NO. | DATE | DESCRIPTION |
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REVISIONS

DESIGNED BY: JSG
DRAWN BY: CJM
CHECKED BY: JSG
SCALE: AS SHOWN
PROJECT NUMBER: 6140-001
PRINT DATE:

SEAL: James Scott Gibson, R.A., LEED® AP, License Number 1628

SHEET TITLE: IRRIGATION PLANS

PROJECT NAME: DESIGN OF CITYWIDE LANDSCAPE IMPROVEMENTS

SHEET NUMBER: IR-01

March 26, 2012 (13:41:53 EST)
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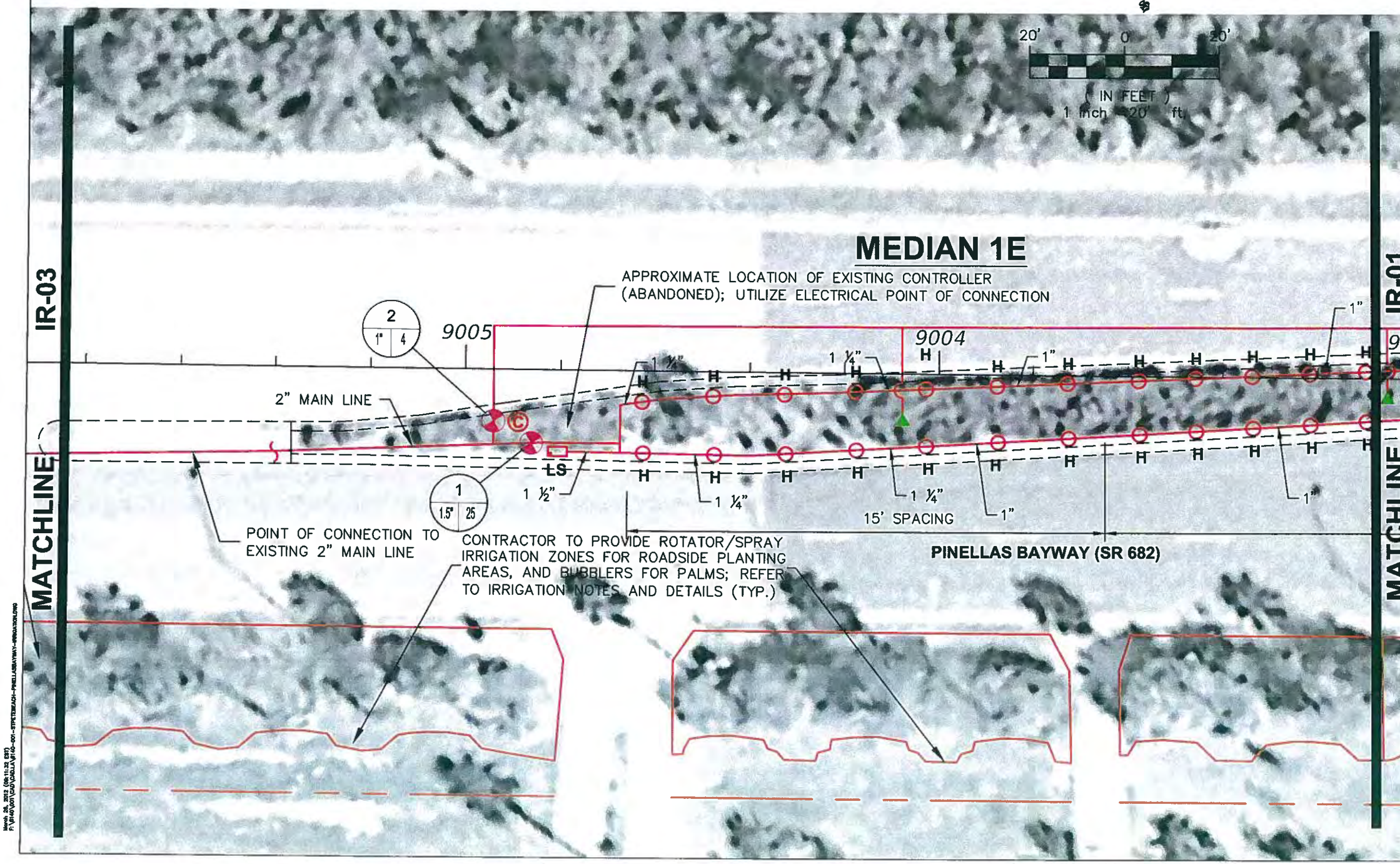
NOTE: IRRIGATION PIPING IS SHOWN DIAGRAMMATICALLY. PIPING, HEADS, VALVES, ETC. SHALL BE PLACED WITHIN PLANTING AND SOD AREAS WHEREVER FEASIBLE. ADJUST LOCATIONS TO MINIMIZE LENGTH OF RUNS.

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REVISIONS

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SHEET TITLE
IRRIGATION PLANS

PROJECT NAME
DESIGN OF CITYWIDE LANDSCAPE IMPROVEMENTS

SHEET NUMBER
IR-02

March 26, 2012 (09:11:32 EST)
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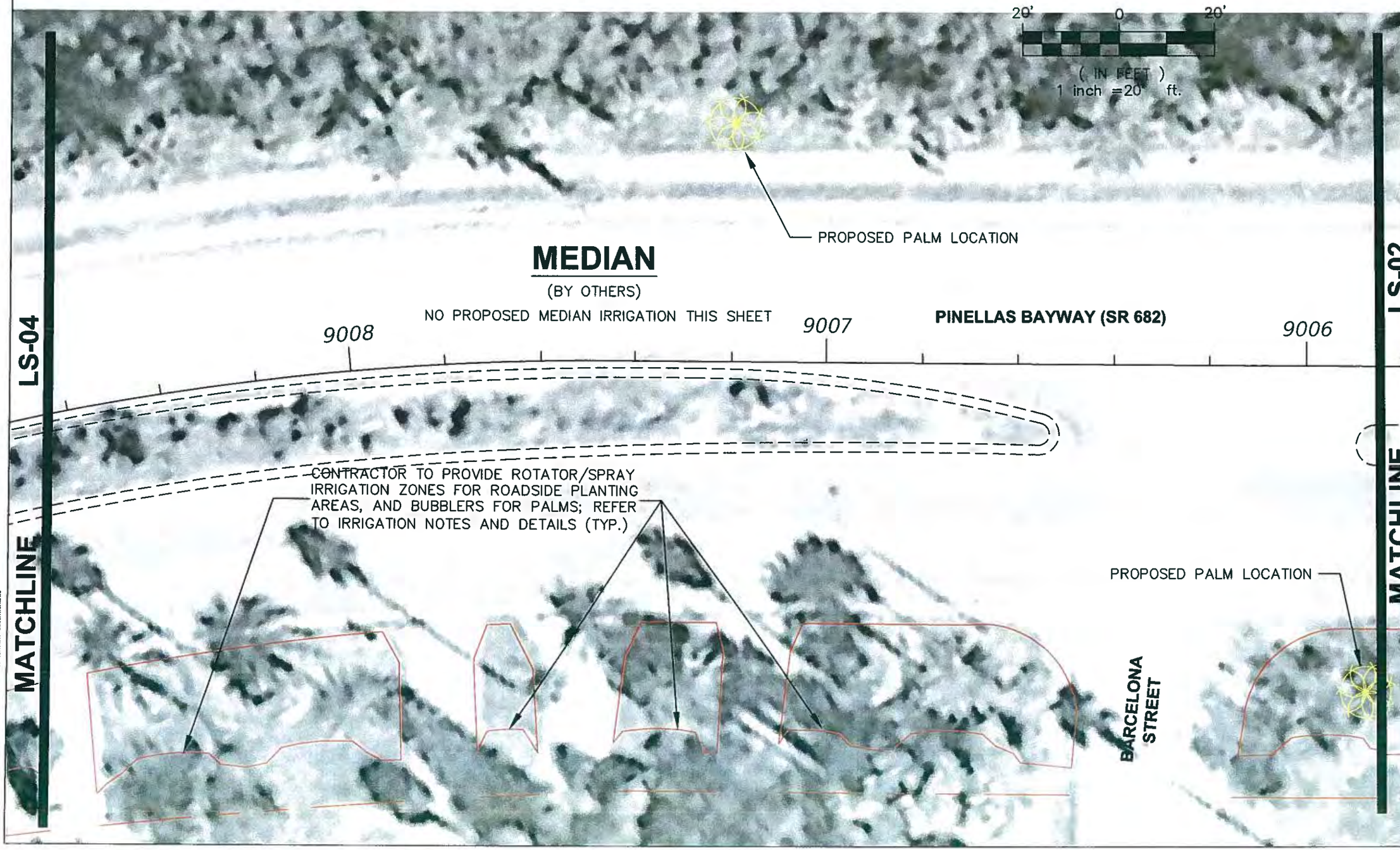
NOTE: IRRIGATION PIPING IS SHOWN DIAGRAMMATICALLY. PIPING, HEADS, VALVES, ETC. SHALL BE PLACED WITHIN PLANTING AND SOD AREAS WHEREVER FEASIBLE. ADJUST LOCATIONS TO MINIMIZE LENGTH OF RUNS.

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REVISIONS

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SHEET TITLE
IRRIGATION PLANS

PROJECT NAME
DESIGN OF CITYWIDE LANDSCAPE IMPROVEMENTS

SHEET NUMBER
IR-03

March 28, 2012 (09:01:06 EST)
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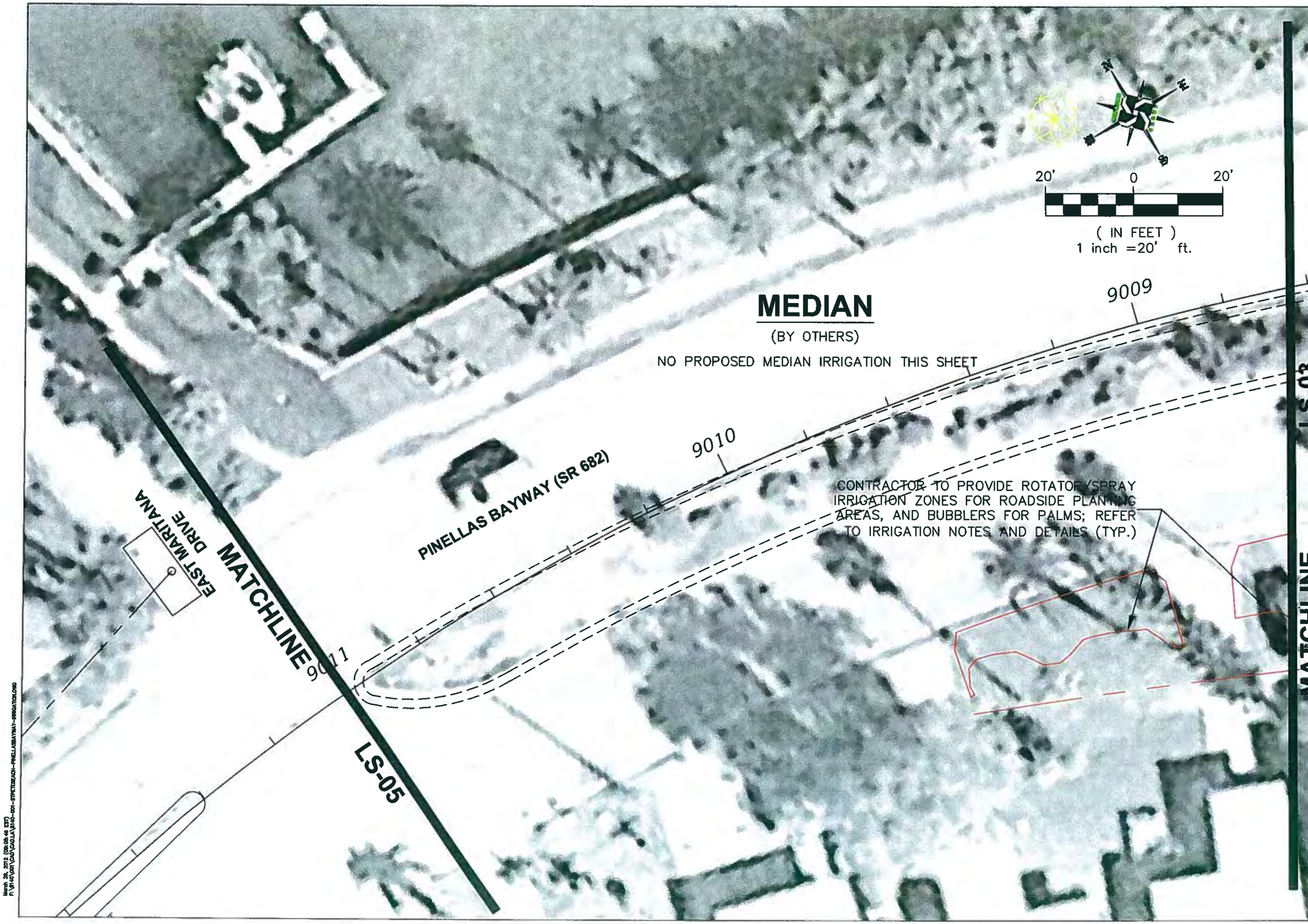


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REVISIONS

DESIGNED BY: JSG
DRAWN BY: CJM
CHECKED BY: JSG
SCALE: AS SHOWN
PROJECT NUMBER: 6140-001
PRINT DATE:

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PREPARED FOR
CITY OF ST. PETE BEACH

SEAL
James Scott Glenn, R.A., LEED® AP
License Number 1828

SHEET TITLE
IRRIGATION PLANS

PROJECT NAME
DESIGN OF CITYWIDE LANDSCAPE IMPROVEMENTS

SHEET NUMBER
IR-04

March 28, 2012 (08:05:46 EST)
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March 28, 2012 (13:41:53 EST)
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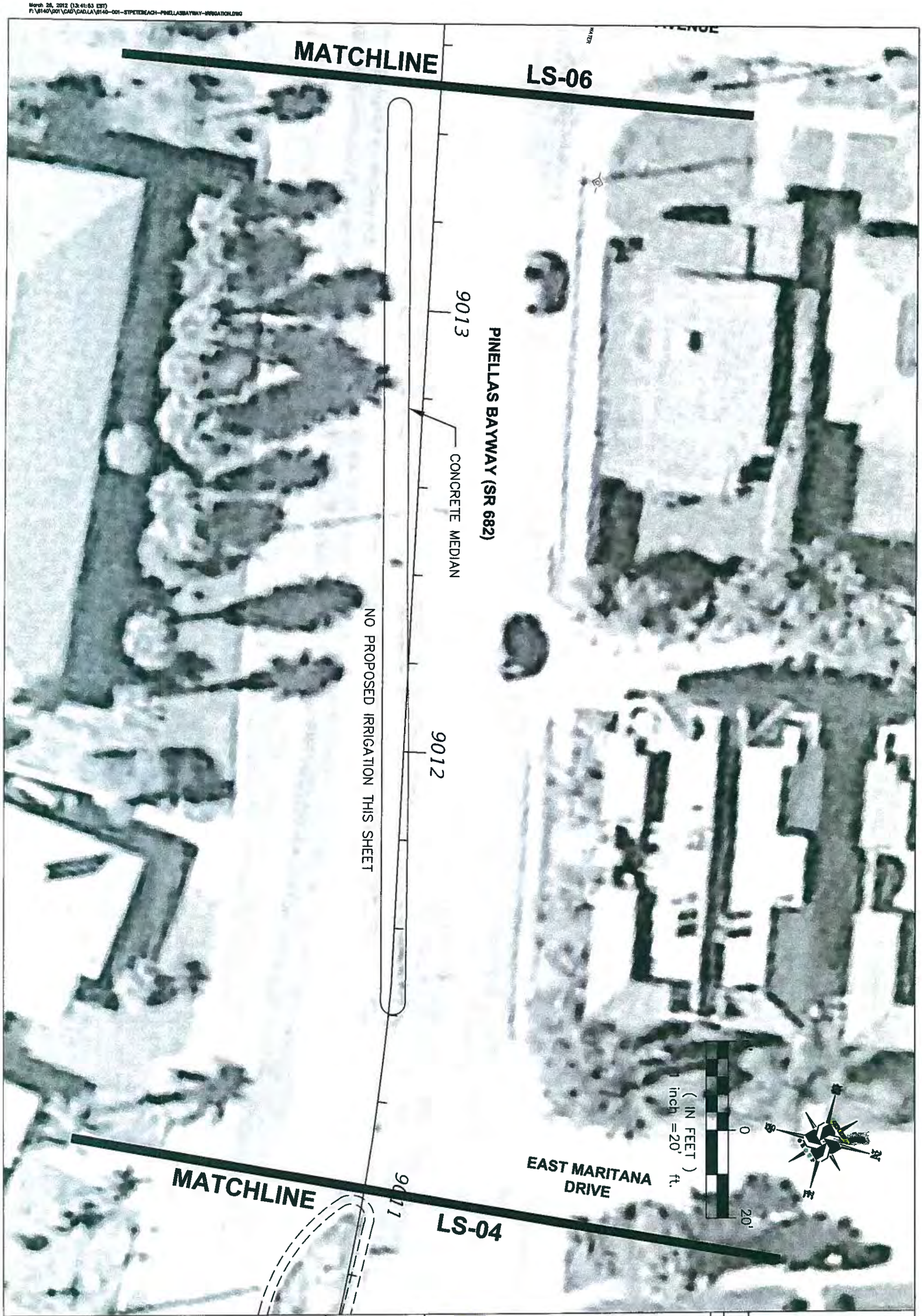


SHEET TITLE

**IRRIGATION PLANS**

PROJECT NAME

**DESIGN OF CITYWIDE LANDSCAPE IMPROVEMENTS**

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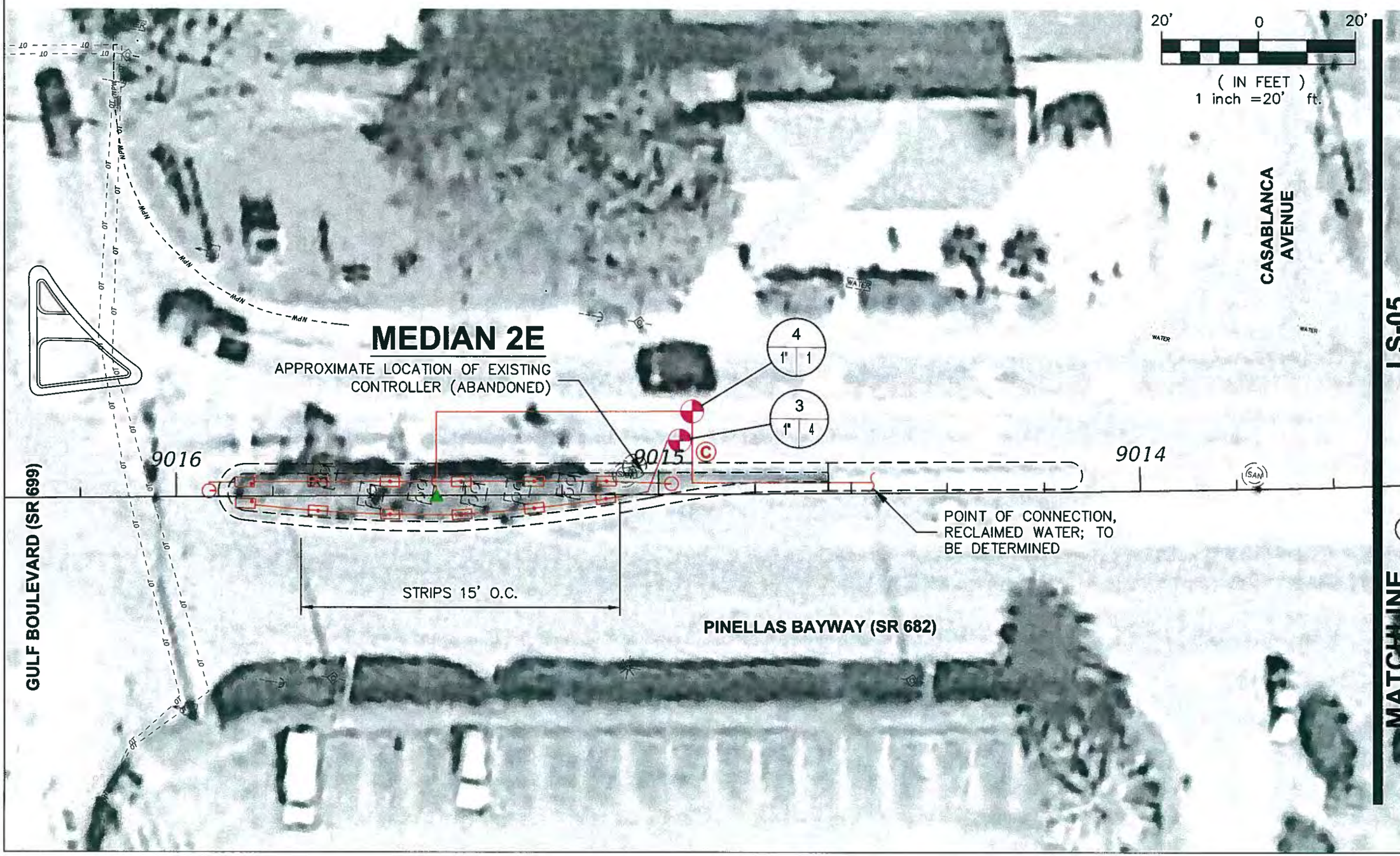
| JSG | JSG | 6140-001 |
| DRAWN BY: CJM | SCALE: AS SHOWN | PRINT DATE |

SHEET NUMBER **IR-05**

NOTE: IRRIGATION PIPING IS SHOWN DIAGRAMMATICALLY. PIPING, HEADS, VALVES, ETC. SHALL BE PLACED WITHIN PLANTING AND SOD AREAS WHEREVER FEASIBLE. ADJUST LOCATIONS TO MINIMIZE LENGTH OF RUNS.




LS-05

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SEAL

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SHEET TITLE: IRRIGATION PLANS

PROJECT NAME: DESIGN OF CITYWIDE LANDSCAPE IMPROVEMENTS

SHEET NUMBER: IR-06

March 23, 2012 (08:04:44 EST)
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## GENERAL NOTES

1. CHANGES IN SPRAY, ROTOR, BUBBLER PLACEMENT OR DRIP SUBSTITUTION SHALL ALWAYS BE DONE TAKING INTO CONSIDERATION:
   A. WHAT IS BEST FOR THE GROWTH AND MAINTENANCE OF THE TREES AND PLANT MATERIAL.
   B. MAINTAINING A CONSTANT AND EVEN DISTRIBUTION AND PRECIPITATION RATE. (NEVER INSTALL BUBBLERS AND LOW VOLUME DRIP ON THE SAME ZONE).

2. AUTOMATIC CONTROL TIMER LOCATIONS TO BE VERIFIED WITH OWNER AND/OR OWNER'S REPRESENTATIVE. ALL CONTROL WIRES TO BE #14 UF-DIRECT BURIAL.

3. ALL IRRIGATION SHALL SUPPLY 100% HEAD TO HEAD COVERAGE FOR ALL PLANT MATERIALS (PROPOSED AND EXISTING TO REMAIN).
   A. UTILIZE BUBBLERS FOR ALL PALMS.
   B. UTILIZE ROTATORS/SPRAY ZONES FOR ALL MEDIANS.
   C. UTILIZE DRIP IRRIGATION ZONES FOR 75TH AVENUE ROADSIDE PLANTING AREAS.
   D. UTILIZE ROTATOR SPRAY ZONES FOR PINELLAS BAYWAY ROADSIDE PLANTING AREAS.

4. IRRIGATION TO BE SUPPLIED AS FOLLOWS:

   PINELLAS BAYWAY:
   - NEW IRRIGATION SYSTEMS FOR PLANTED MEDIANS, PER PLANS.
   - CONTRACTOR TO DESIGN AND INSTALL DRIP IRRIGATION ZONES MEETING ALL REQUIREMENTS OF PLANS, NOTES AND DETAILS FOR ROADSIDE PLANTING AREAS. PROPOSED PALMS TO RECEIVE BUBBLERS, ZONED SEPARATELY.

   75TH AVENUE:
   - RETROFIT AND REPAIR EXISTING IRRIGATION IN MEDIAN
   - CONTRACTOR TO DESIGN AND INSTALL DRIP IRRIGATION ZONES MEETING ALL REQUIREMENTS OF PLANS, NOTES AND DETAILS FOR ROADSIDE PLANTING AREAS. AREAS. PROPOSED PALMS TO RECEIVE BUBBLERS, ZONED SEPARATELY.

   GULF BOULEVARD:
   - NEW IRRIGATION SYSTEMS SYSTEMS FOR ALL PLANTING MEDIANS

   BLIND PASS ROAD:
   - NEW IRRIGATION SYSTEMS FOR ALL MEDIANS LABELED "P", PER PLANS
   - CONTRACTOR TO DESIGN AND INSTALL ROTATOR SPRAY IRRIGATION AND BUBBLER ZONES MEETING ALL REQUIREMENTS OF PLANS, NOTES AND DETAILS FOR MEDIANS LABELED "E"

5. DRIP LINE TUBING FOR MEDIANS ON BLIND PASS ROAD SHALL BE RAINBIRD ON-SURFACE DRIP LINE XFD-P-09-12 (OR APPROVED EQUAL). DRIP LINE TUBING FOR ROAD SIDE AREAS ON 75TH AVENUE SHALL BE SUB-SURFACE DRIP LINE RAINBIRD XFS-P-09-12 (OR APPROVED EQUAL).

6. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL SUPPLY SKETCHES WITH SUFFICIENT DETAIL TO CONVEY DESIGN INTENT (P.O.C., VALVES, HEAD LAYOUT, ETC.) FOR ALL AREAS REQUIRING CONTRACTOR DESIGN, FOR REVIEW AND APPROVAL BY THE OWNER AND FDOT. CONSTRUCTION SHALL NOT BEGIN UNTIL OWNER APPROVAL IS RECEIVED.

7. THE CONTRACTOR SHALL LOCATE AND PORTRAY MAINLINE PIPING, SLEEVING AND ANY PROPOSED ROADWAY CROSSINGS FOR REVIEW AND APPROVAL BY THE CITY AND FDOT.

8. CONTRACTOR SHALL VERIFY ALL IRRIGATION POINTS OF CONNECTION AND MEET ON-SITE WITH THE OWNER TO REVIEW PRIOR TO CONSTRUCTION.

9. SHOULD ANY ROAD CROSSING FOR IRRIGATION PIPING (MAINLINE OR LATERAL LINE) BE REQUIRED, THE CONTRACTOR SHALL OBTAIN REQUIRED UTILITY PERMIT(S) FROM FDOT PRIOR TO CONSTRUCTION.

10. FIELD ALTERATIONS MADE IN THE IRRIGATION CONTRACT DRAWING MUST BE IN THE BEST INTEREST OF THE PLANT MATERIAL, SOD AND LANDSCAPE IRRIGATION SYSTEM. CHANGES MADE BY THE IRRIGATION CONTRACTOR WHICH ARE DEEMED, BY THE PROJECT ADMINISTRATOR, NOT TO BE IN CONFORMITY WITH THIS CRITERIA WILL BE REMOVED AND REPLACED AT THE IRRIGATION CONTRACTOR'S EXPENSE. CONTACT THE OWNER AND/OR OWNER'S REPRESENTATIVE FOR APPROVAL PRIOR TO INSTALLATION OF FIELD ALTERATIONS.

11. THE CONTRACTOR SHALL STAKE OUT THE LOCATION OF EACH RUN OF PIPE, BUBBLER HEADS, DRIP TUBE, SPRINKLER VALVES PRIOR TO TRENCHING. TRENCHES FOR PIPE SHALL BE CUT TO REQUIRED GRADE LINES, AND COMPACTED TO PROVIDE ACCURATE GRADE AND UNIFORM BEARING FOR THE FULL LENGTH OF THE LINE. THE BOTTOM OF TRENCHES SHALL BE FREE OF ROCK OR OTHER SHARP EDGED OBJECTS. MINIMUM COVER SHALL BE AS FOLLOWS: PRESSURE MAINLINE 24" AT TOP OF PIPE TO FINISH GRADE. LATERAL PIPING 12" AT TOP OF PIPE FROM FINISH GRADE.

12. INITIAL BACKFILL ON PVC LINE SHALL BE PULVERIZED NATIVE FREE SOIL, FREE OF FOREIGN MATTER. WITHIN RADIUS OF 4" OF THE PIPE SHALL BE CLEAN SOIL OR SAND. PLANT LOCATIONS SHALL TAKE PRECEDENCE OVER SPRINKLER AND PIPE LOCATIONS. THE CONTRACTOR SHALL COORDINATE THE PLACING OF SPECIMEN TREES AND SHRUBS WITH THE ROUTING OF LINES AND FINAL HEAD LOCATIONS.

13. THE IRRIGATION AND LANDSCAPE CONTRACTORS SHALL COORDINATE THE PLACEMENT OF THE SPRINKLER EQUIPMENT AND LANDSCAPE MATERIAL WITHIN THE PLANTED AREAS. THE IRRIGATION CONTRACTOR SHALL INSTALL HIS MATERIAL AT THE EDGE OF THE PLANTED AREAS AVOIDING PLANTS, ROOT BALLS, LIGHTS, BOLLARDS, FENCES, ETC.

14. BEFORE IRRIGATION HEADS AND DRIP LINE ARE SET, THE CONTRACTOR SHALL FLUSH THE LINES THOROUGHLY TO MAKE SURE THERE IS NO FOREIGN MATTER IN THE LINES. THE CONTRACTOR SHALL FLUSH THE MAIN LINES FROM FROM DEAD END FITTINGS FOR A MINIMUM OF FIVE MINUTES UNDER A FULL HEAD OF PRESSURE.

15. OPEN CUTS IN ASPHALT, WALKS AND/OR TRENCHES MUST BE PROTECTED FROM VEHICLE AND PEDESTRIAN TRAFFIC AT ALL TIMES. IT WILL BE THE IRRIGATION CONTRACTORS RESPONSIBILITY TO BARRICADE AND DIVERT TRAFFIC.

16. THE IRRIGATION SYSTEM MUST BE INSTALLED TO MINIMIZE ROOT DISTURBANCE TO EXISTING TREES AND OTHER VEGETATION TO BE RETAINED.

17. IRRIGATION SYSTEM IS DESIGNED AND SHALL BE INSTALLED PER LOCAL AGENCY REQUIREMENTS.

18. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ANY AND ALL REQUIRED PERMITS AND APPROVALS FROM REGULATORY AGENCIES.

19. IRRIGATION UTILIZES NON-POTABLE WATER. ALL IRRIGATION HEADS, VALVES, BOX LIDS, PIPING, ETC. SHALL BE PURPLE TO DENOTE NON-POTABLE IN ACCORDANCE WITH APPLICABLE AGENCY JURISDICTION REQUIREMENTS. ANY REQUIRED SIGNING SHALL BE PROMINENTLY POSTED.

20. ALL MP ROTATOR HEADS TO BE 12" POP UP.

21. CONTRACTOR SHALL SUPPLY AS-BUILT DRAWINGS, LEGIBLY AND ACCURATELY DRAWN TO SCALE, WITH MINIMUM TWO (2) MEASUREMENTS IDENTIFYING LOCATION OF ALL SYSTEM COMPONENTS.

## IRRIGATION SYMBOL LEGEND

- IRRIGATION CONTROLLER – HUNTER NODE 100/NODE 200 CONTROLLER W/SOLENOID DC SOL
- IRRIGATION VALVE – HUNTER THREADED PGV VALVE (SIZE AS INDICATED) WITH AS-ADJ PRESSURE REGULATOR
- HUNTER MP CORNER SPRAY
- HUNTER MP LEFT/RIGHT STRIP SPRAY
- HUNTER MP SIDE STRIP SPRAY
- HUNTER MP 1000/MP 2000
  Q-QUARTER (90°) ARC
  H-HALF (180°) ARC

  "SPACING" – DENOTES RADIUS AND SPACING BETWEEN SPRAY HEADS

  8' TO 11' – MP 1000
  13' TO 15' – MP2000
- RAINBIRD 1402 BUBBLERS (TWO PER PALM)
- SCHEDULE 40 PVC LATERAL LINE PIPE
- IRRIGATION PIPE CROSSING
- 1 ¼" IRRIGATION PIPE SIZE
- 2 / 1" | 4 VALVE SCHEDULE

## NOTE

ALL IRRIGATION ITEMS IDENTIFIED SHALL BE CONSIDERED QUALITY/PERFORMANCE STANDARDS, "OR EQUAL" PRODUCTS MAY BE SUBMITTED FOR REVIEW/APPROVAL.

| NO. | DATE | DESCRIPTION |
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PREPARED FOR: CITY OF ST. PETE BEACH

SEAL: James Scott Gibson, R.A. LE22FAP License Number 9620

SHEET TITLE: IRRIGATION NOTES AND DETAILS

PROJECT NAME: DESIGN OF CITYWIDE LANDSCAPE IMPROVEMENTS

SHEET NUMBER: IR-29

April 5, 2012 (15:00:22 EST)
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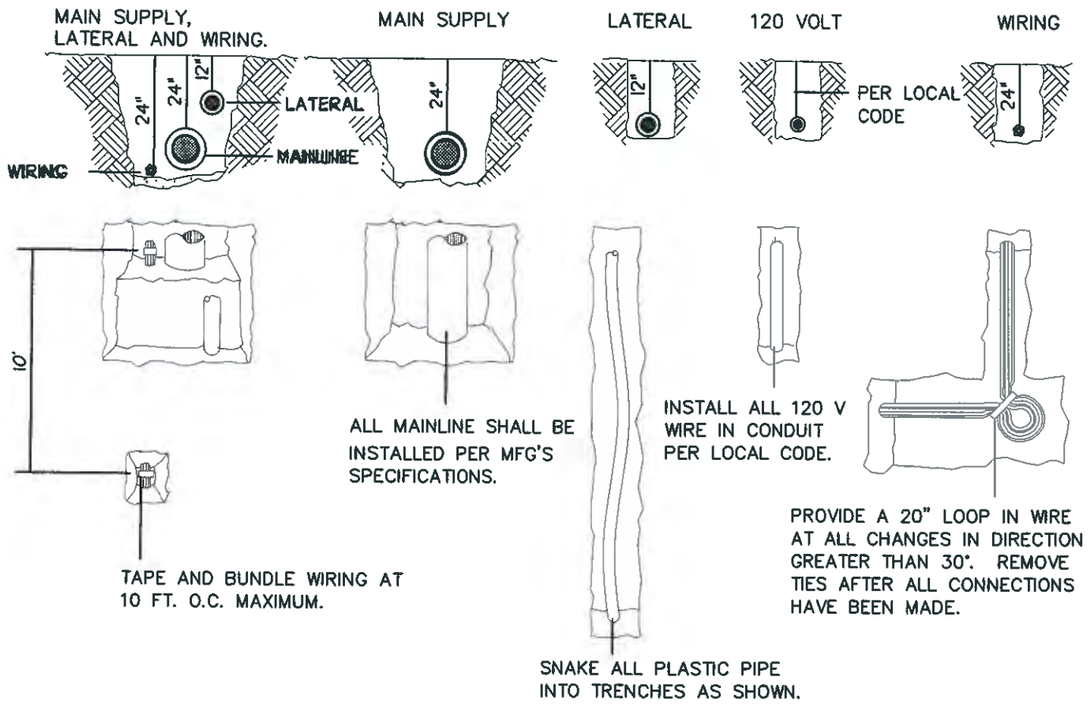


## TRENCH DETAIL

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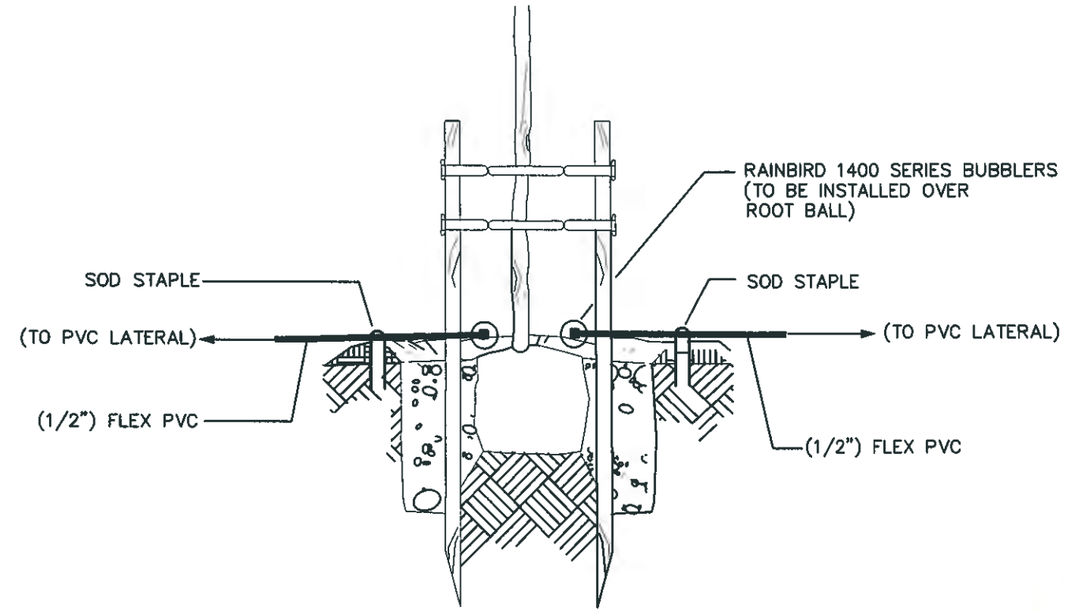


## BUBBLER ON FLEX (RAINBIRD 1400 SERIES)

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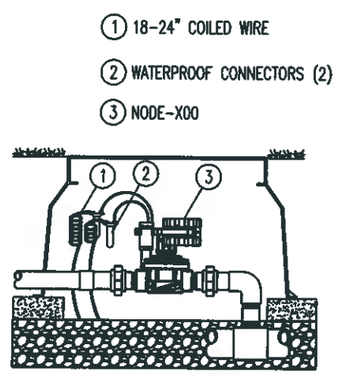


## NODE CONTROLLER

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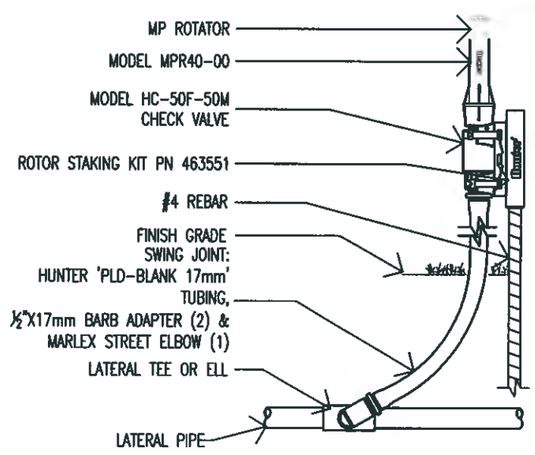
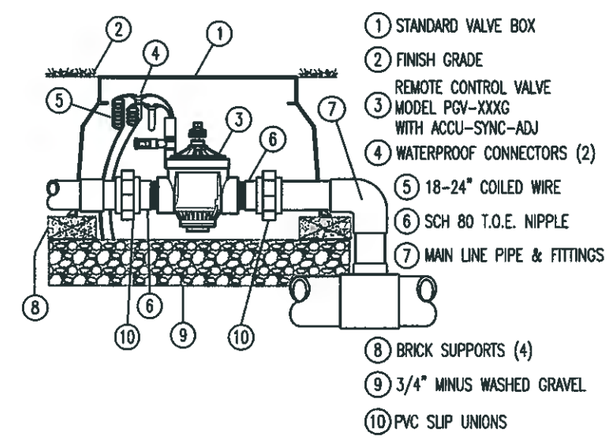



## MP ROTATOR SPRINKLER

NTS DETAIL PROVIDED BY: Hunter




## PGV GLOBE VALVE

NTS DETAIL PROVIDED BY: Hunter

March 23, 2012 (09:43:35 EST)
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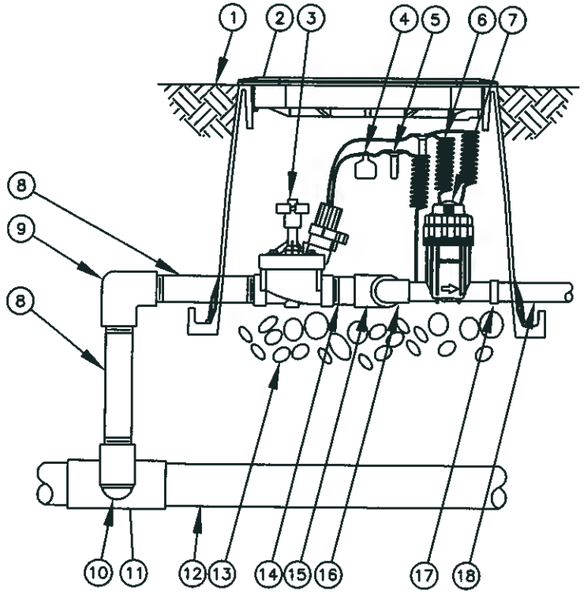
License Number 7620

SHEET TITLE
IRRIGATION DETAILS

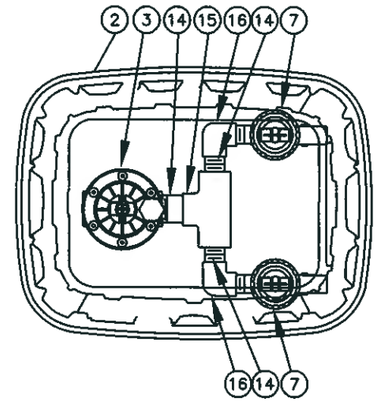
PROJECT NAME
DESIGN OF CITYWIDE LANDSCAPE IMPROVEMENTS

SHEET NUMBER
IR-30




SIDE VIEW

1. FINISH GRADE/TOP OF MULCH
2. VALVE BOX WITH COVER: RAIN BIRD VB-STD
3. REMOTE CONTROL VALVE: RAIN BIRD 150-PESB (INCLUDED IN XCZ-PRB-150-COM KIT)
4. ID TAG
5. WATERPROOF CONNECTION: RAIN BIRD DB SERIES
6. 30-INCH LINEAR LENGTH OF WIRE, COILED
7. PRESSURE REGULATING QUICK CHECK BASKET FILTER: RAIN BIRD PRB-QKCHK-100 (INCLUDED IN XCZ-PRB-150-COM KIT)
8. PVC SCH 80 NIPPLE (LENGTH AS REQUIRED)
9. PVC SCH 40 ELL
10. PVC SCH 80 NIPPLE (2-INCH LENGTH, HIDDEN) AND PVC SCH 40 ELL
11. PVC SCH 40 TEE OR ELL
12. MAINLINE PIPE
13. 3-INCH MINIMUM DEPTH OF 3/4-INCH WASHED GRAVEL
14. PVC SCH 80 NIPPLE, CLOSE (INCLUDED IN XCZ-PRB-150-COM KIT)
15. PVC SCH 40 TEE (INCLUDED IN XCZ-PRB-150-COM KIT)
16. PVC SCH 40 ELL (INCLUDED IN XCZ-PRB-150-COM KIT)
17. PVC SCH 40 FEMALE ADAPTOR
18. LATERAL PIPE



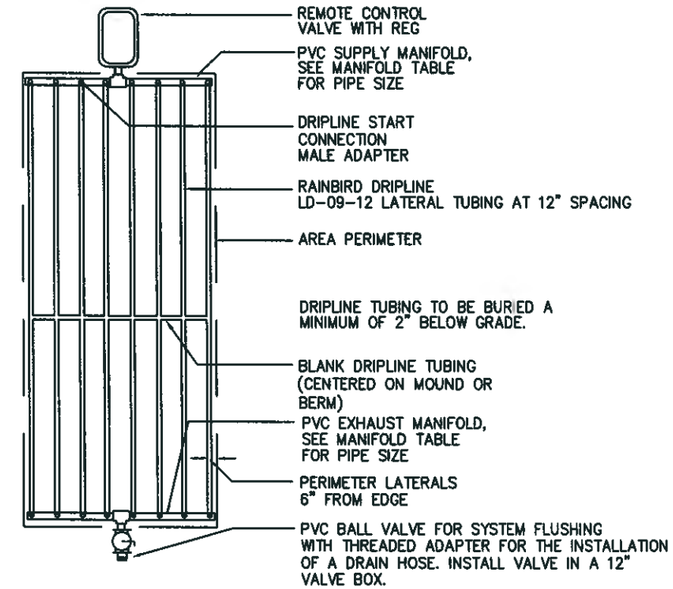

TOP VIEW

## XCZ-PRB-150-COM 1.5" COMMERCIAL CONTROL ZONE KIT IN A SQUARE VALVE BOX

NTS

| IRRIGATION ZONE DEMAND GALLONS PER MINUTE (GPM) | SUPPLY MANIFOLD PIPE SIZE END AND CENTER FEED | EXHAUST MANIFOLD PIPE SIZE W/END FEED SUPPLY LINE | EXHAUST MANIFOLD PIPE SIZE W/END FEED SUPPLY LINE (TWO EXHAUST MANIFOLDS REQ'D) |
|---|---|---|---|
| 0 – 6 | 3/4" | 3/4" | 3/4" |
| 7 – 11 | 1" | 1" | 3/4" |
| 12 – 19 | 1 1/4" | 1 1/4" | 1" |
| 20 – 26 | 1 1/2" | 1 1/2" | 1 1/4" |
| 27– 42 | 2" | 2" | 1 1/4" |
| 43 – 60 | 2 1/2" | 2 1/2" | 2" |
| 61 – 90 | 3" | 3" | 2" |

## DRIPLINE SUPPLY AND EXHAUST MANIFOLD PIPE SIZE TABLE

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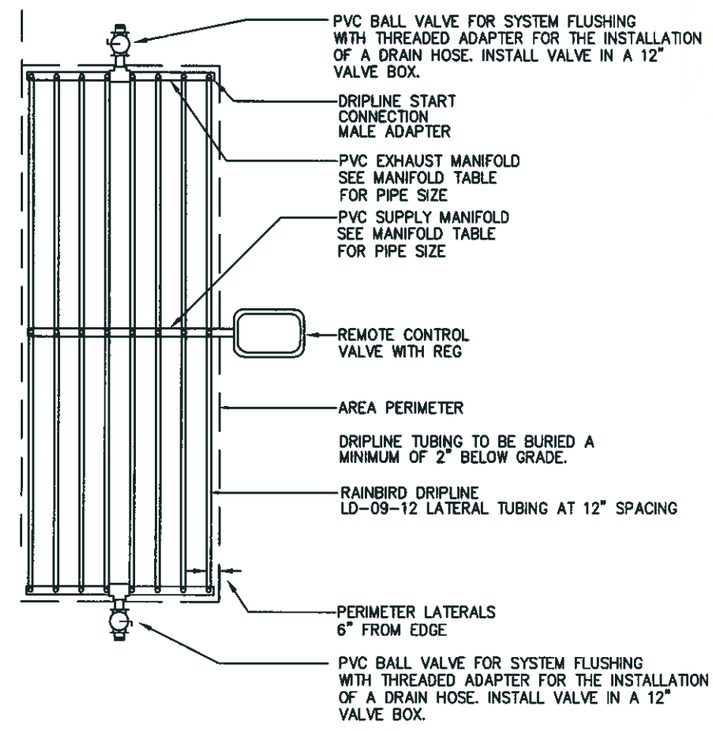


## CENTER FEED LAYOUT

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PREPARED FOR: CITY OF ST. PETE BEACH

SEAL: James Scott Gibson, P.L.A. LE667747 License Number 1483

SHEET TITLE: IRRIGATION DETAILS

PROJECT NAME: DESIGN OF CITYWIDE LANDSCAPE IMPROVEMENTS

SHEET NUMBER: IR-31

March 28, 2012 (10:06:21 EST)
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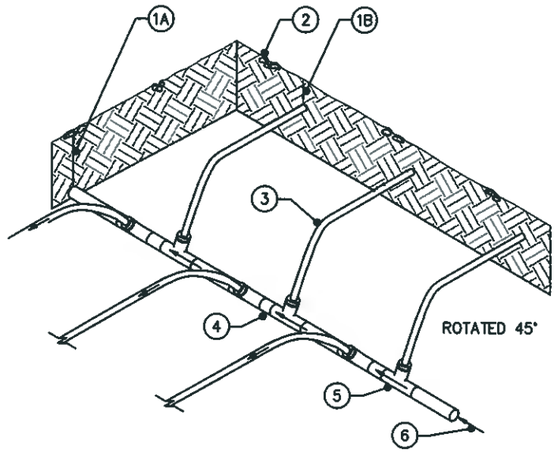
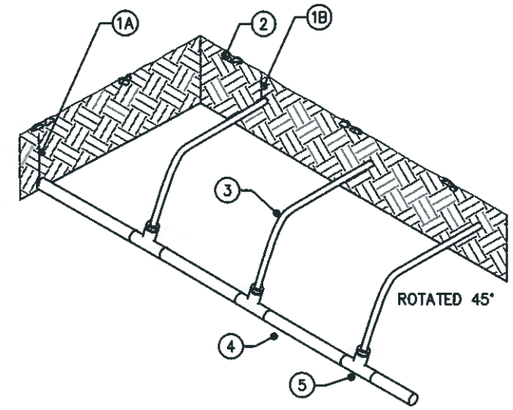



1A 5"–6"
1B LAID ON FINISH GRADE STAKED EVERY 3'
2 FINISHED GRADE
3 RAINBIRD DRIPLINE (TYP.)
4 PVC SUPPLY MANIFOLD
NOTE:
REGARDING SIZE OF EXHAUST MANIFOLD (SEE TABLE)
5 PVC TEE TO RAINBIRD COMPRESSION ADAPTERS
6 FLOW FROM VALVE

## CENTER FEED SUPPLY MANIFOLD

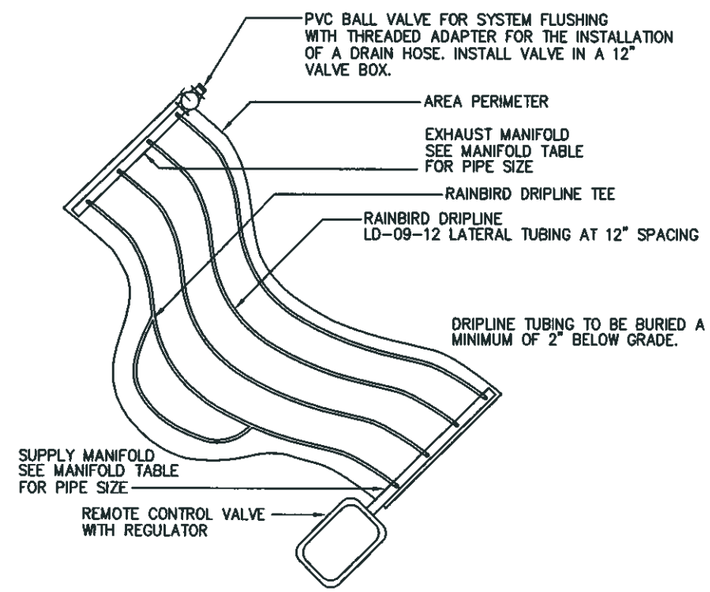
NTS




1A 5"–6"
1B LAID ON FINISH GRADE STAKED EVERY 3'
2 FINISHED GRADE
3 RAINBIRD DRIPLINE (TYP.)
4 PVC SUPPLY/ EXHAUST MANIFOLD
NOTE:
REGARDING SIZE OF EXHAUST MANIFOLD (SEE TABLE)
5 PVC TEE TO 1/2" SLIP X .620" O.D. TUBING COMPRESSION ADAPTERS

## SUPPLY/EXHAUST MANIFOLD

NTS




## IRREGULAR AREAS: ODD CURVES

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March 23, 2012 (09:46:09 EST)
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| NO. | DATE | DESCRIPTION |
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PREPARED FOR
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License Number 1683

SHEET TITLE
IRRIGATION DETAILS

PROJECT NAME
DESIGN OF CITYWIDE LANDSCAPE IMPROVEMENTS

SHEET NUMBER
IR-32

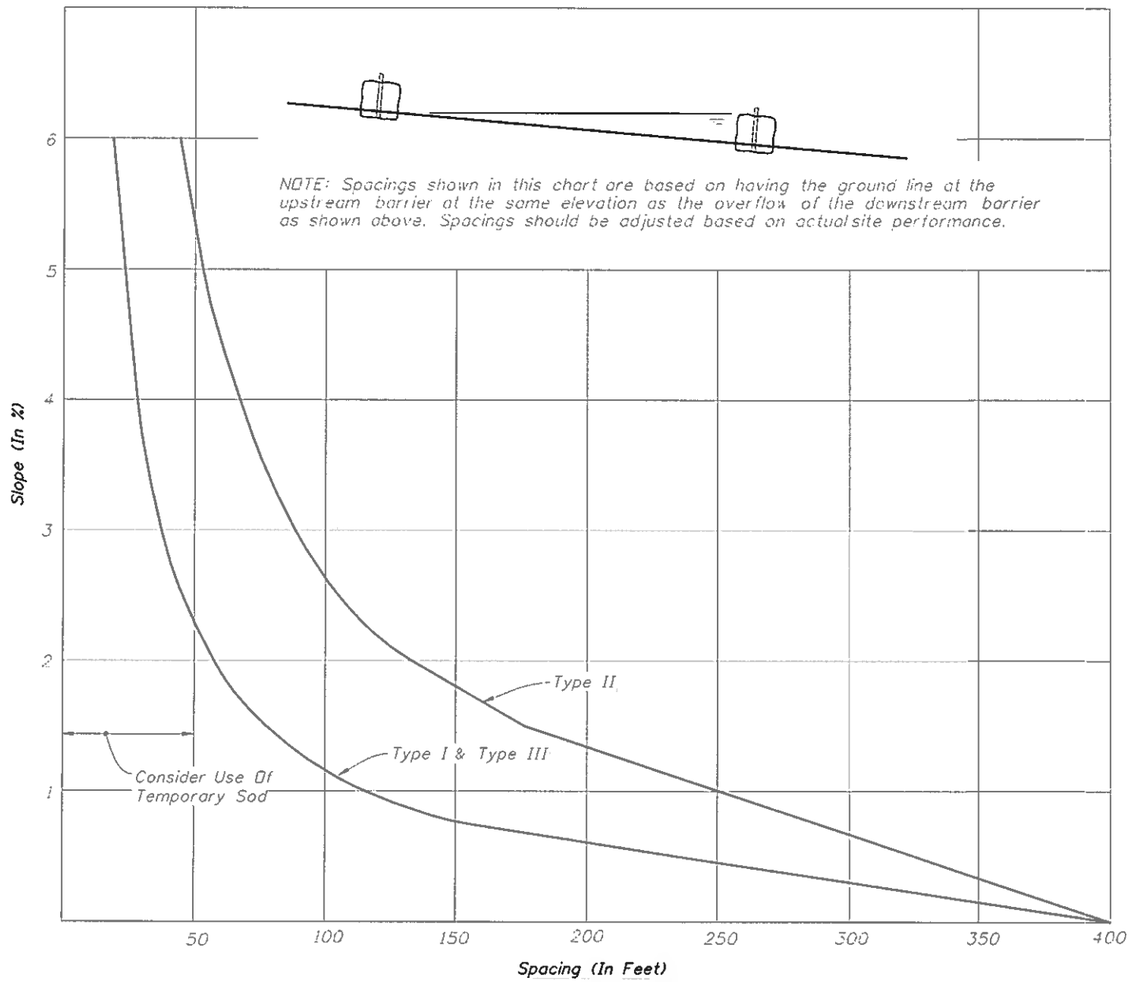
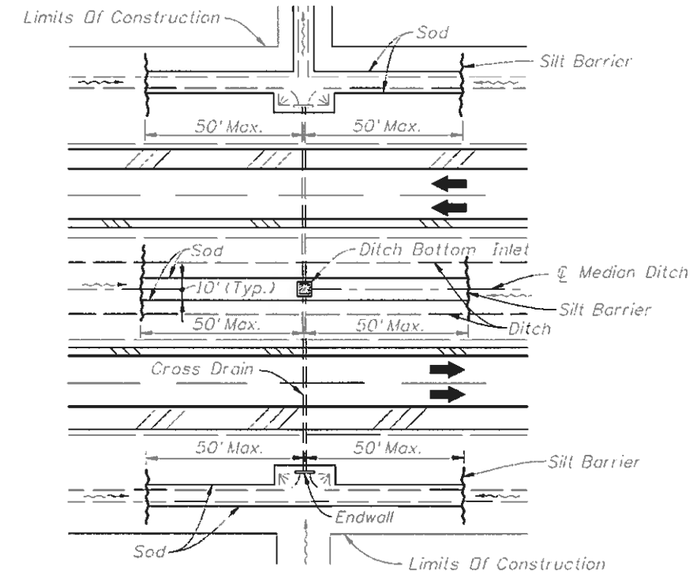



CHART I

RECOMMENDED SPACING FOR SYNTHETIC BALES OR BALE TYPE BARRIERS AND TYPE III SILT FENCE




DITCH INSTALLATIONS AT DRAINAGE STRUCTURES

| | |
|---|---|
| 2010 FDOT Design Standards | Last Revision 07/01/07 |
| TEMPORARY EROSION AND SEDIMENT CONTROL | Sheet No. 1 of 3 |
| | Index No 102 |

SHEET NUMBER MOT-01

SHEET TITLE: FDOT DETAILS

PROJECT NAME: DESIGN OF CITYWIDE LANDSCAPE IMPROVEMENTS

PREPARED FOR: CITY OF ST. PETE BEACH

PROJECT NUMBER 6140-001

PRINT DATE

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CHECKED BY

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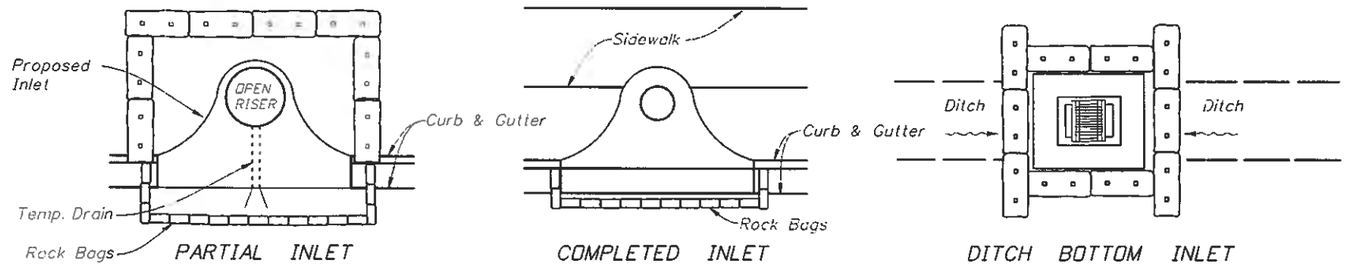
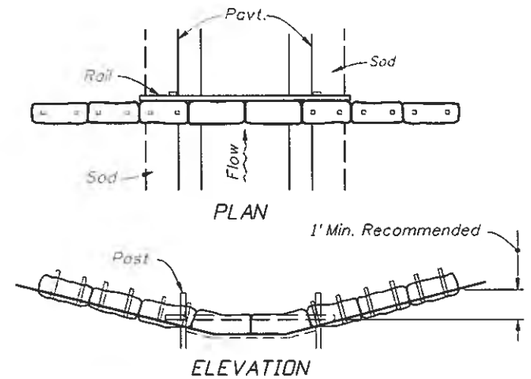
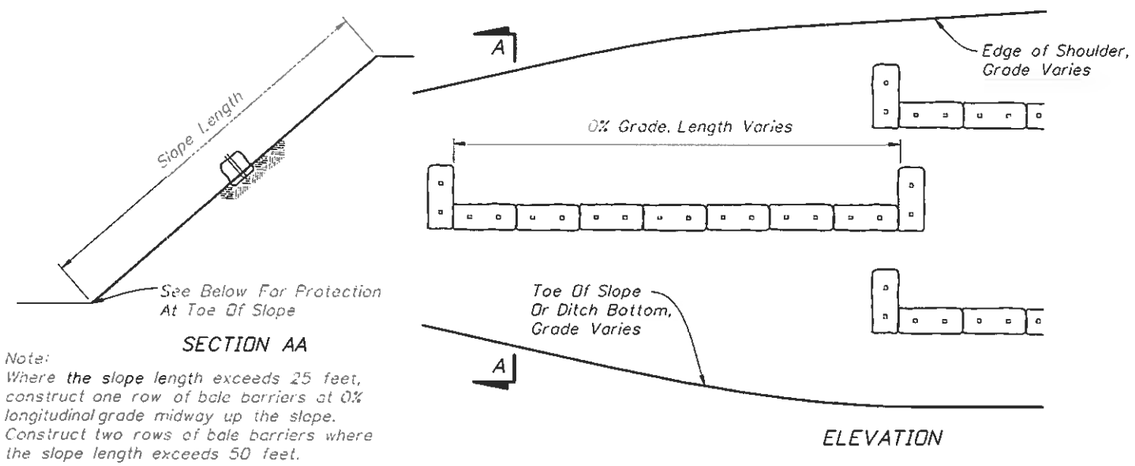



PROTECTION AROUND INLETS OR SIMILAR STRUCTURES

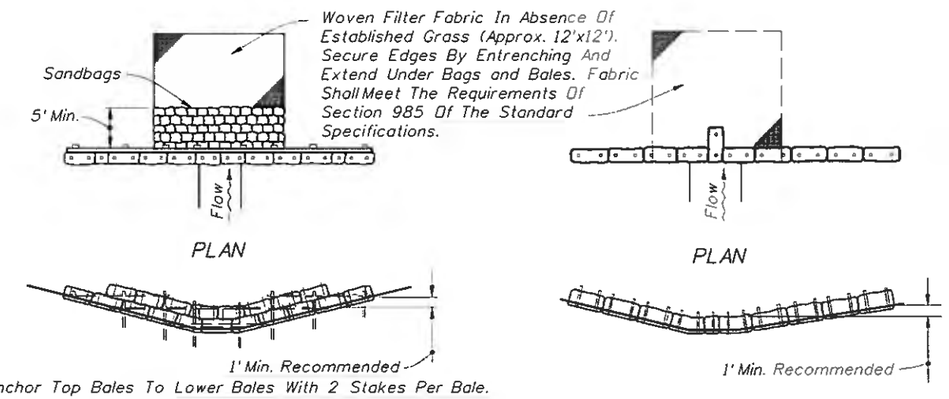



SYNTHETIC BALES OR BALE TYPE BARRIERS FOR PAVED DITCHES

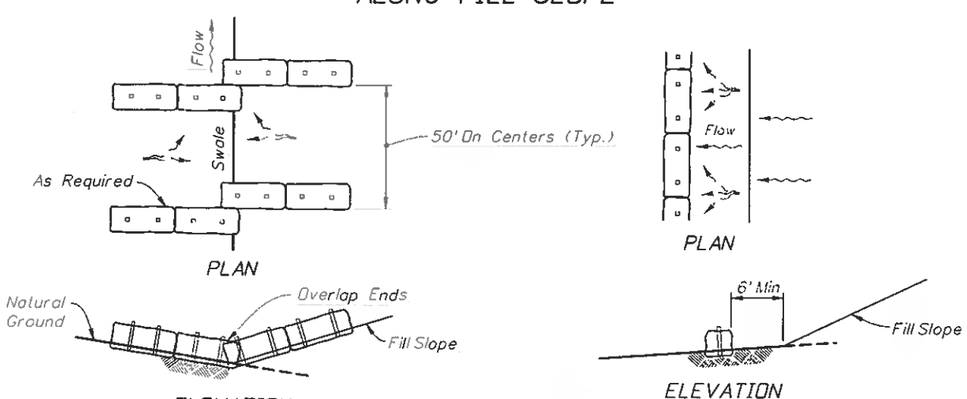



Note:
Where the slope length exceeds 25 feet, construct one row of bale barriers at 0% longitudinal grade midway up the slope. Construct two rows of bale barriers where the slope length exceeds 50 feet.

ALONG FILL SLOPE




SYNTHETIC BALES OR BALE TYPE BARRIERS FOR UNPAVED DITCHES




AT TOE OF SLOPE
BARRIERS FOR FILL SLOPES

## NOTES FOR SYNTHETIC BALES OR BALE TYPE BARRIERS

1. Type I and II Synthetic Barrier should be spaced in accordance with Chart 1, Sheet 1.
2. Bales shall be anchored with 2-1" x 2' (or 1" dia.) x 4' wood stakes. Stakes of other material or shape providing equivalent strength may be used if approved by the Engineer. Stakes other than wood shall be removed upon completion of the project.
3. Rails and posts shall be 2" x 4" wood. Other materials providing equivalent strength may be used if approved by the Engineer.
4. Adjacent bales shall be butted firmly together.
5. Where used in conjunction with silt fence, bales shall be placed on the upstream side of the fence.
6. Bales to be paid for under the contract unit price for Synthetic Bales, LF. The unit price shall include the cost of filter fabric for Type I and II Barriers. Sandbags shall be paid for under the unit price for Sandbagging, CY. Rock bags to be paid for under the contract unit price for Rock Bags, LA.

| | | | |
|---|---|---|---|
| STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION | 2010 FDOT Design Standards | Last Revision 07/01/09 | Sheet No. 2 of 3 |
| | TEMPORARY EROSION AND SEDIMENT CONTROL | Index No 102 | |

| NO. | DATE | DESCRIPTION | REVISIONS | CHECKED BY | PROJECT NUMBER 6140-001 |
|---|---|---|---|---|---|
| | | | | DESIGNED BY | PRINT DATE |
| | | | | DRAWN BY | SCALE AS SHOWN |

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PREPARED FOR: CITY OF ST. PETE BEACH

SEAL

James Scott Gibson, P.E. LICENSE NUMBER 1625

SHEET TITLE: FDOT DETAILS

PROJECT NAME: DESIGN OF CITYWIDE LANDSCAPE IMPROVEMENTS

SHEET NUMBER: MOT-02

April 6, 2012 (08:57:30 EDT)
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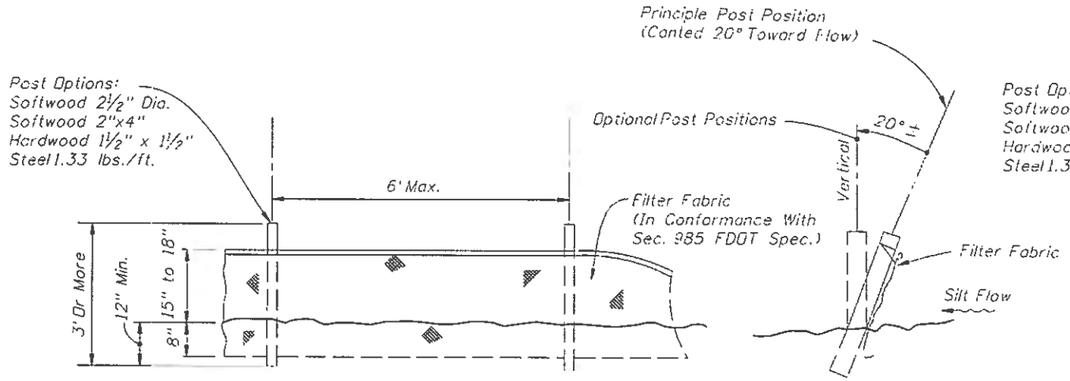
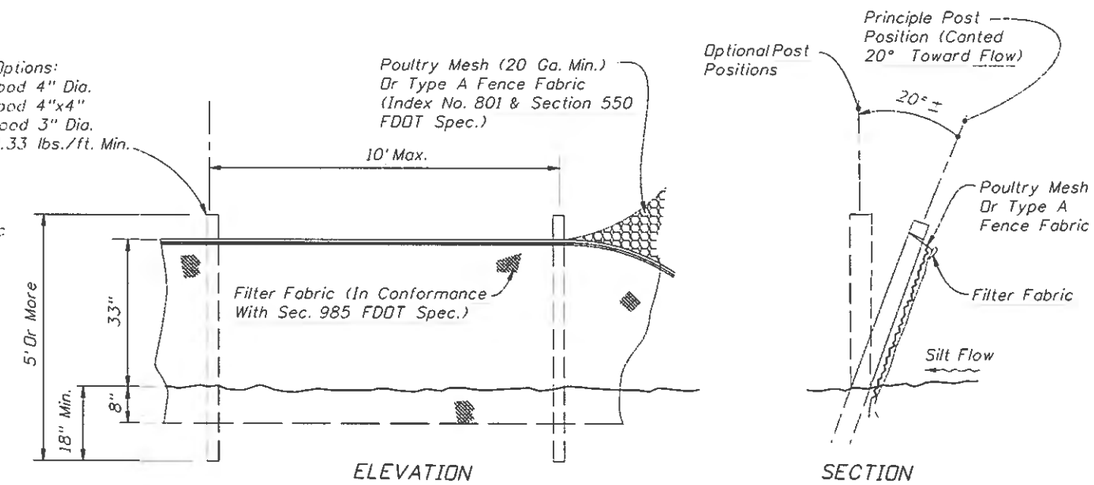



ELEVATION

SECTION

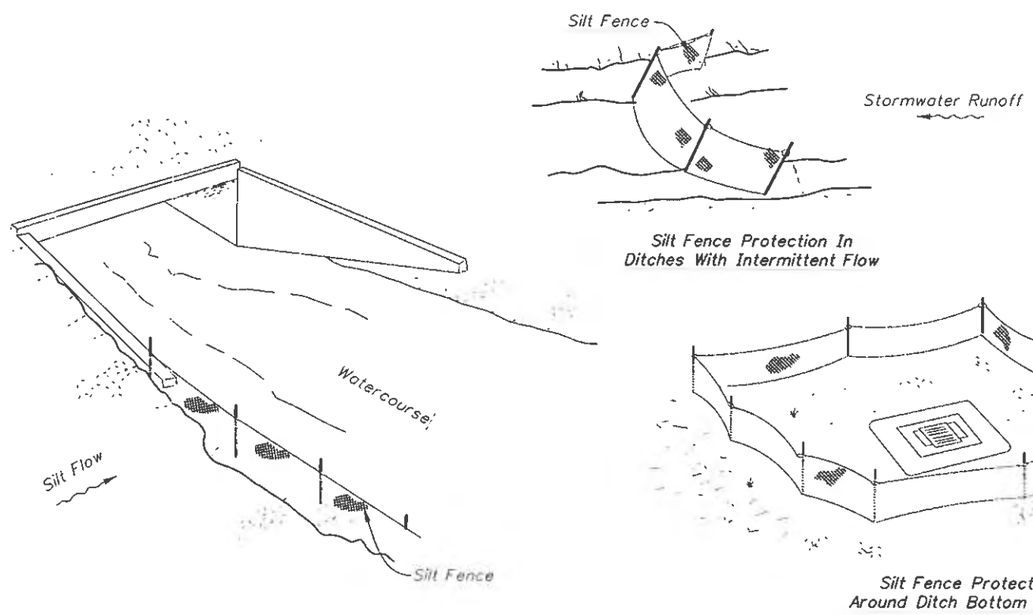
TYPE III SILT FENCE



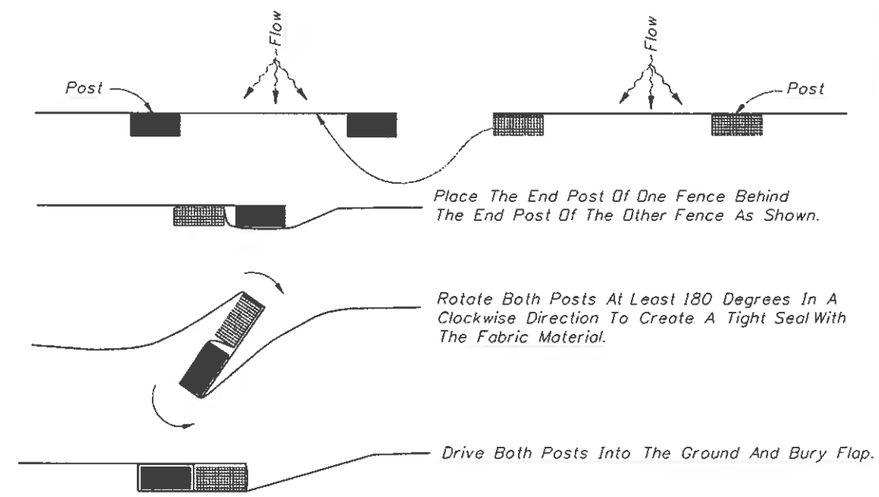

ELEVATION

SECTION

TYPE IV SILT FENCE




SILT FENCE APPLICATIONS




PLAN VIEW

JOINING TWO SILT FENCES

## NOTES FOR SILT FENCES

1. Type III Silt Fence to be used at most locations. Where used in ditches, the spacing for Type III Silt fence shall be in accordance with Chart 1, Sheet 1.
2. Type IV Silt Fence to be used where large sediment loads are anticipated. Suggested use is where fill slope is 1:2 or steeper and length of slope exceeds 25 feet. Avoid use where the detained water may back into travel lanes or off the right of way.
3. Do not construct silt fences across permanent flowing watercourses. Silt fences are to be at upland locations and turbidity barriers used at permanent bodies of water.
4. Where used as slope protection, Silt Fence is to be constructed on 0% longitudinal grade to avoid channelizing runoff along the length of the fence.
5. Silt Fence to be paid for under the contract unit price for Staked Silt Fence, (LF).

2010 FDOT Design Standards

TEMPORARY EROSION AND SEDIMENT CONTROL

| Last Revision | Sheet No. |
|---|---|
| 07/01/05 | 3 of 3 |

Index No. 102

| NO. | DATE | DESCRIPTION | REVISIONS |
|---|---|---|---|
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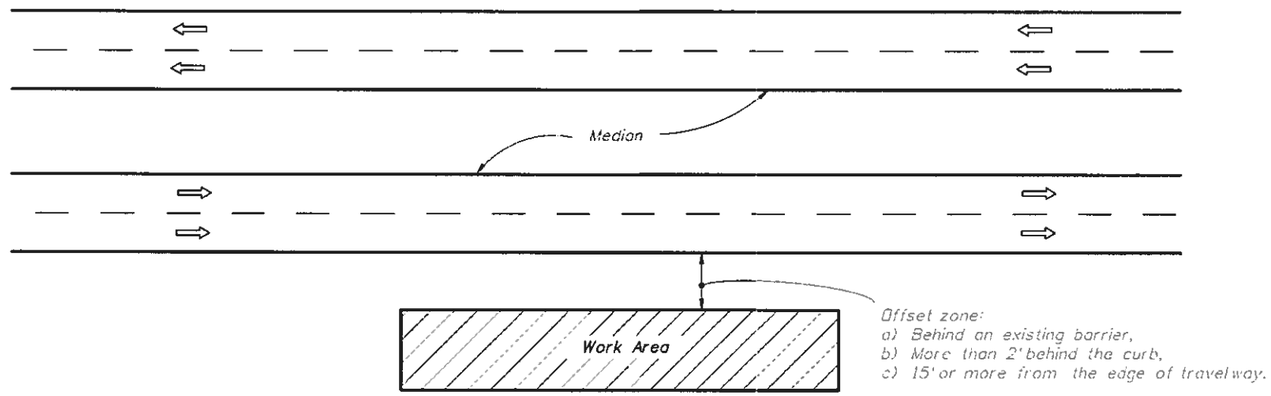
PREPARED FOR: CITY OF ST. PETE BEACH

SEAL

PROJECT NAME: DESIGN OF CITYWIDE LANDSCAPE IMPROVEMENTS

SHEET TITLE: FDOT DETAILS

SHEET NUMBER: MOT-03




## GENERAL NOTES

1. If the work operation (excluding establishing and terminating the work area), requires that two or more work vehicles cross the offset zone in any one hour, traffic control will be in accordance with Index No. 612.
2. No special signing is required.
3. This index also applies when work is being performed on a multilane undivided highway.
4. This index also applies to work performed in the median behind an existing barrier or more than 15' from the edge of travelway, both roadways. Work performed in the median behind curb and gutter shall be in accordance with Index No. 612.
5. When a side road intersects the highway within the work area, additional traffic control devices shall be placed in accordance with other applicable TCZ Indexes.
6. When construction activities encroach on a sidewalk, refer to Index No. 660.
7. For general TCZ requirements and additional information, refer to Index No. 600.

## SYMBOLS

Work Area

Lane Identification + Direction of Traffic

## CONDITIONS

WHERE ANY VEHICLE, EQUIPMENT, WORKERS AND THEIR ACTIVITIES ARE BEHIND AN EXISTING BARRIER, MORE THAN 2' BEHIND THE CURB, OR 15' OR MORE FROM THE EDGE OF TRAVEL WAY.

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

2010 FDOT Design Standards

MULTILANE, WORK OUTSIDE SHOULDER

| Last Revision | Sheet No. |
|---|---|
| 07/01/05 | 1 of 1 |

Index No 611

| NO. | DATE | DESCRIPTION |
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REVISIONS

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PREPARED FOR: CITY OF ST. PETE BEACH

SEAL: James Scott Gibbs, P.E., LEED® AP License Number 1620

SHEET TITLE: FDOT DETAILS

PROJECT NAME: DESIGN OF CITYWIDE LANDSCAPE IMPROVEMENTS

SHEET NUMBER: MOT-04

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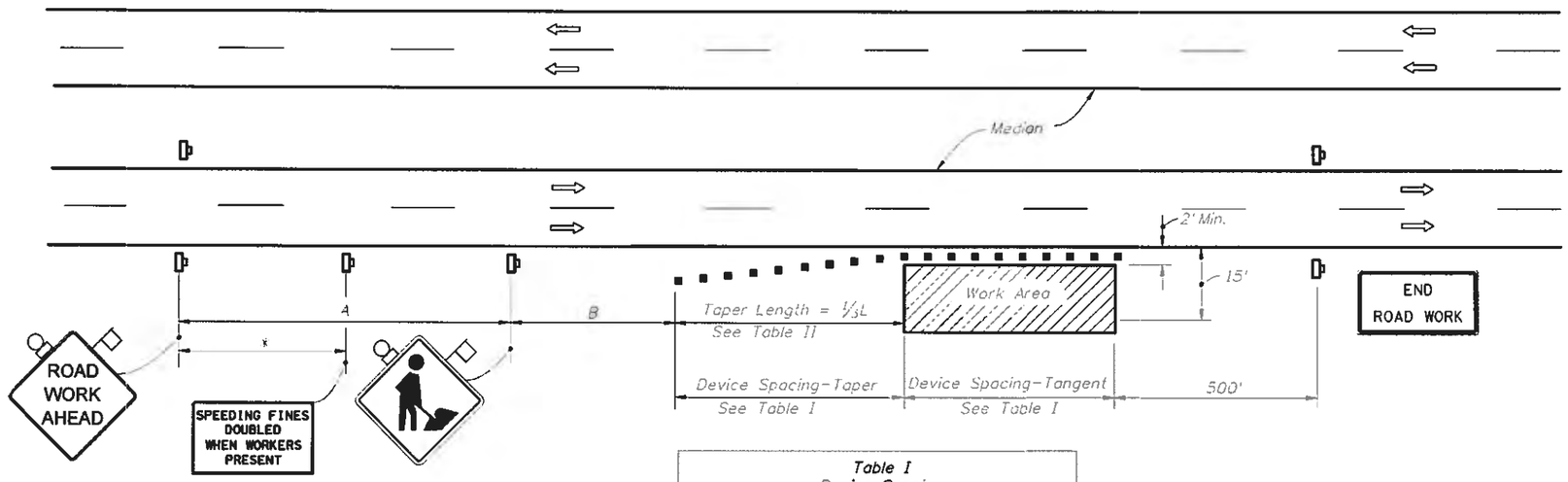


| DISTANCE BETWEEN SIGNS | | |
|---|---|---|
| Speed | Spacing (ft.) | |
| | A | B |
| 40 mph or less | 200 | 200 |
| 45 mph | 350 | 350 |
| 50 mph or greater | 500 | 500 |

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

| Table I<br>Device Spacing | | | | |
|---|---|---|---|---|
| Speed (mph) | Max. Distance Between Devices (ft.) | | | |
| | Cones or Tubular Markers | | Type I or Type II Barricades or Vertical Panels or Drums | |
| | Taper | Tangent | Taper | Tangent |
| 25 | 25 | 50 | 25 | 50 |
| 30 to 45 | 25 | 50 | 30 | 50 |
| 50 to 70 | 25 | 50 | 50 | 100 |

| Table II<br>Taper Length - Shoulder | | | | |
|---|---|---|---|---|
| Speed (mph) | 1/3L (ft.) | | | Notes |
| | 8' Shldr. | 10' Shldr. | 12' Shldr. | |
| 25 | 28 | 35 | 42 | $L = \frac{WS^2}{60}$ |
| 30 | 40 | 50 | 60 | |
| 35 | 55 | 68 | 82 | |
| 40 | 72 | 90 | 107 | |
| 45 | 120 | 150 | 180 | L=WS |
| 50 | 133 | 167 | 200 | |
| 55 | 147 | 183 | 220 | |
| 60 | 160 | 200 | 240 | |
| 65 | 173 | 217 | 260 | |
| 70 | 187 | 233 | 280 | |

8' minimum shoulder width.

1/3L = Length of shoulder taper in feet

W= Width of total shoulder in feet (combined paved and unpaved width)

S= Posted speed limit (mph)

## SYMBOLS

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

## GENERAL NOTES

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

## DURATION NOTES

1. Signs and channelizing devices may be omitted if all of the following conditions are met:
   a) Work operations are 60 minutes or less.
   b) Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.

## CONDITIONS

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

2010 FDOT Design Standards

MULTILANE, WORK ON SHOULDER

| Last Revision | Sheet No. |
|---|---|
| 07/01/07 | 1 of 1 |

Index No 612

| NO. | DATE | DESCRIPTION | REVISIONS |
|---|---|---|---|

DESIGNED BY: | CHECKED BY: | DRAWN BY: | PROJECT NUMBER 6140-001 | PRINT DATE | SCALE AS SHOWN

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PREPARED FOR: CITY OF ST. PETE BEACH

SEAL: James Scott Gibson, P.E. LICENSE NUMBER 1169

SHEET TITLE: FDOT DETAILS

PROJECT NAME: DESIGN OF CITYWIDE LANDSCAPE IMPROVEMENTS

SHEET NUMBER: MOT-05

April 9, 2012 (08:07:30 EDT)
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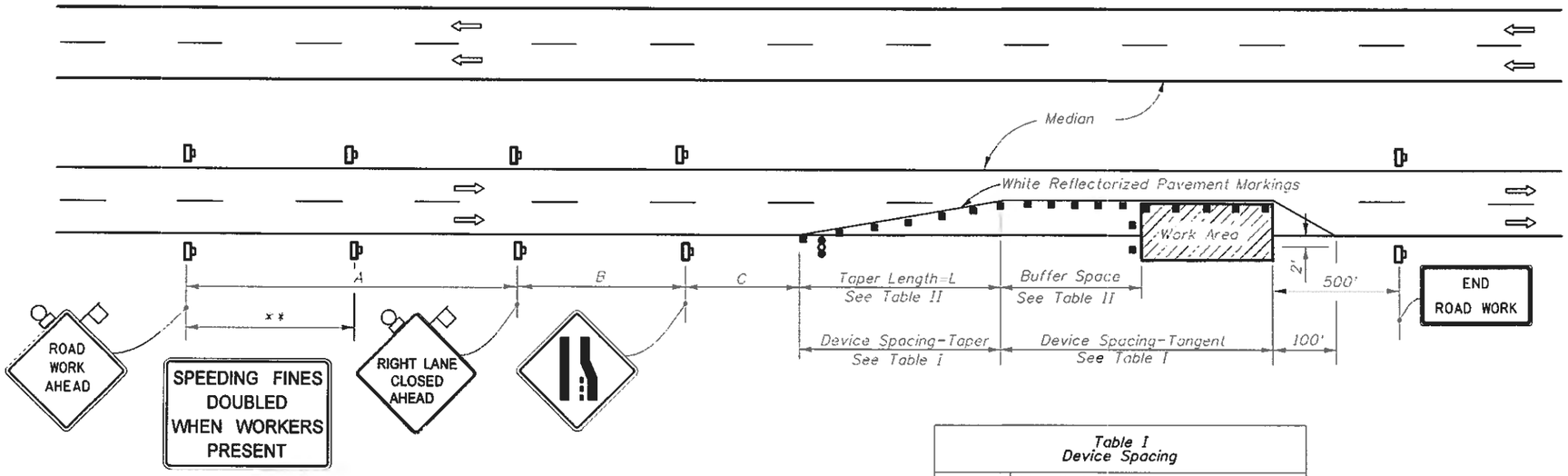


| Table II<br>Buffer Space and Taper Length | | | |
|---|---|---|---|
| Speed (mph) | Buffer Space | Taper Length (12' Lateral Transition) | |
| | Dist. (ft.) | L (ft.) | Notes (Merge) |
| 25 | 155 | 125 | $L=\frac{WS^2}{60}$ |
| 30 | 200 | 180 | |
| 35 | 250 | 245 | |
| 40 | 305 | 320 | |
| 45 | 360 | 540 | L=WS |
| 50 | 425 | 600 | |
| 55 | 495 | 660 | |
| 60 | 570 | 720 | |
| 65 | 645 | 780 | |
| 70 | 730 | 840 | |

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

For lateral transitions other than 12', use formula for L shown in the notes column.
Where:
L= Length of taper in feet
W= Width of lateral transition in feet
S= Posted speed limit (mph)

| Table I<br>Device Spacing | | | | |
|---|---|---|---|---|
| Speed (mph) | Max. Distance Between Devices (ft.) | | | |
| | Cones or Tubular Markers | | Type I or Type II Barricades or Vertical Panels or Drums | |
| | Taper | Tangent | Taper | Tangent |
| 25 | 25 | 50 | 25 | 50 |
| 30 to 45 | 25 | 50 | 30 | 50 |
| 50 to 70 | 25 | 50 | 50 | 100 |

| DISTANCE BETWEEN SIGNS | | | |
|---|---|---|---|
| Speed | Spacing (ft.) | | |
| | A | B | C |
| 40 mph or less | 200 | 200 | 200 |
| 45 mph | 350 | 350 | 350 |
| 50 mph | 500 | 500 | 500 |
| *55 mph or greater | 2640 | 1640 | 1000 |

* The ROAD WORK 1 MILE sign may be used as an alternate to the ROAD WORK AHEAD sign and the RIGHT LANE CLOSED ½ MILE sign may be used as an alternate to the RIGHT LANE CLOSED AHEAD sign.

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

## GENERAL NOTES

1. Work operations shall be confined to one traffic lane, leaving the adjacent lane open to traffic.
2. On undivided highways the median signs as shown are to be omitted.
3. When work is performed in the median lane on divided highways, the channelizing device plan is inverted and left lane closed and lane ends signs substituted for the right lane closed and lane end signs.

   The same applies to undivided highways with the following exceptions:
   (a) Work shall be confined within one median lane.
   (b) Additional barricades, cones, or drums shall be placed along the centerline abutting the work area and across the trailing end of the work area.

   When work on undivided highways occurs across the centerline so as to encroach on both median lanes, the inverted plan is applied to the approach of both roadways.
4. Signs and traffic control devices are to be modified in accordance with INTERMITTENT WORK STOPPAGE details (sheet 2 of 2) when no work is being performed and the highway is open to traffic.
5. The two channelizing devices directly in front of the work area may be omitted provided vehicles in the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.
6. When paved shoulders having a width of 5 ft. or more are closed, channelizing devices shall be used to close the shoulder in advance of the merging taper to direct vehicular traffic to remain within the travelway. See Index No. 612 for shoulder taper formulas.
7. When a side road intersects the highway within the TTC zone, additional TTC devices shall be placed in accordance with other applicable TCZ Indexes.
8. This TCZ plan does not apply when work is being performed in the middle lane(s) of a six or more lane highway. See Index No. 614.
9. For general TCZ requirements and additional information, refer to Index No. 600.

## DURATION NOTES

1. Temporary white edgeline may be omitted for work operations less than 3 days.
2. Signs, arrow panel and buffer space may be omitted if all of the following conditions are met:
   a) Work operations are 60 minutes or less.
   b) Speed limit is 45 mph or less.
   c) No sight obstructions to vehicles approaching the work area for a distance equal to the buffer space and the taper length combined.
   d) Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.
   e) Volume and complexity of the roadway has been considered.

## CONDITIONS

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

## SYMBOLS

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

2010 FDOT Design Standards

# MULTILANE, WORK WITHIN THE TRAVEL WAY MEDIAN OR OUTSIDE LANE

Last Revision 07/01/09 | Sheet No 1 of 2 | Index No 613

REVISIONS

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SHEET TITLE: FDOT DETAILS

PROJECT NAME: DESIGN OF CITYWIDE LANDSCAPE IMPROVEMENTS

SHEET NUMBER: MOT-06

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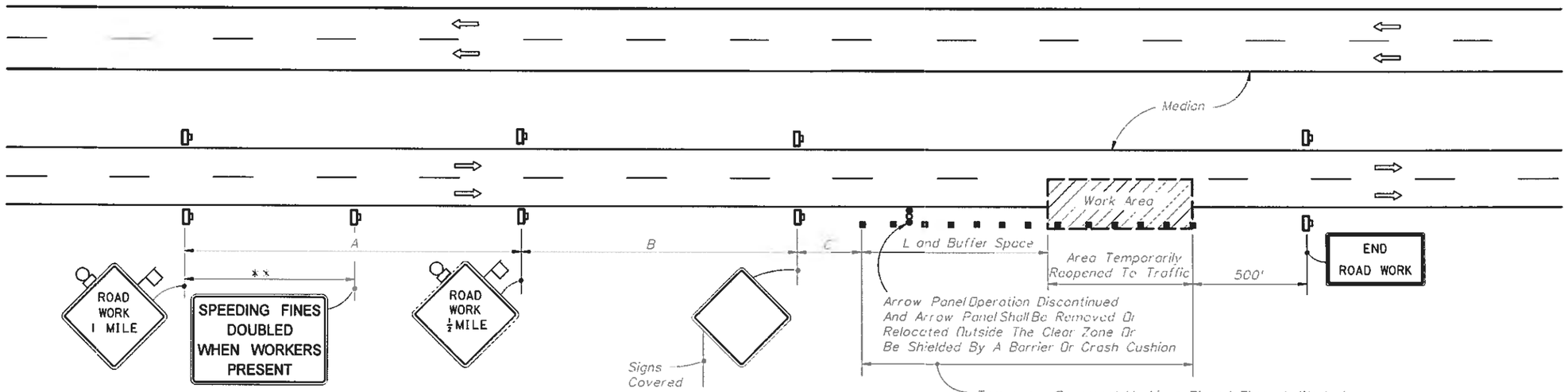
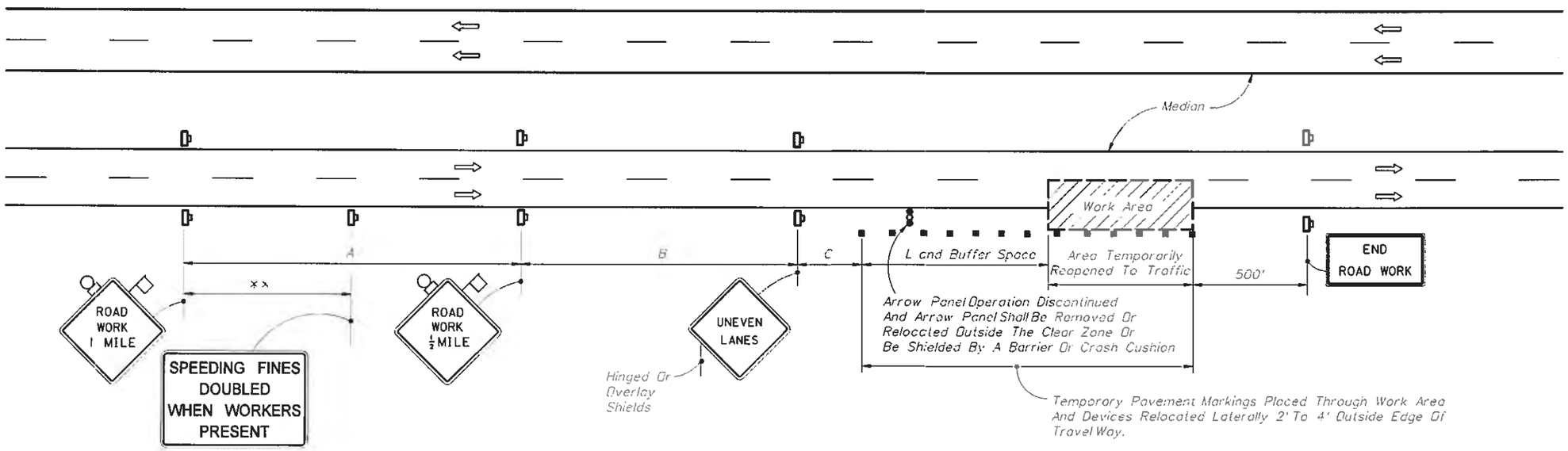



EVEN PAVEMENT




UNEVEN PAVEMENT

INTERMITTENT WORK STOPPAGE - LANE REOPENED TO TRAFFIC

STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION

2010 FDOT Design Standards

MULTILANE, WORK WITHIN THE TRAVEL WAY MEDIAN OR OUTSIDE LANE

| Last Revision | Sheet No. |
|---|---|
| 07/01/05 | 2 of 2 |

Index No. 613

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SHEET TITLE FDOT DETAILS

PROJECT NAME DESIGN OF CITYWIDE LANDSCAPE IMPROVEMENTS

SHEET NUMBER MOT-07

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## GENERAL NOTES

1. Work operations shall be confined to either one lane, or lane combinations as follows:
   (a) Outside travel lane; (b) Outside auxiliary lane;
   (c) Outside travel lane and adjoining auxiliary lane;
   (d) Inside travel lane△ ; (e) Inside auxiliary lane△ ;
   (f) Inside travel lane and adjoining auxiliary lane△
   △ See Sheet 3 of 3

   If the work area is confined to an auxiliary lane the work area shall be barricaded and the RIGHT (LEFT) LANE CLOSED AHEAD signs replaced by ROAD WORK AHEAD signs, and the merge symbol signs eliminated.

2. When vehicles in a parking zone block the line of sight to TCZ signs, the signs shall be post mounted and located in accordance with Index No. 17302.

3. If the work space extends across a crosswalk, the crosswalk should be closed using the information in Index No. 660.

4. Signs are required on the median side for divided highways.

5. The two channelizing devices directly in front and directly at the end of the work area may be omitted provided vehicles in the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.

6. For general TCZ requirements and additional information, refer to Index No. 600.

## DURATION NOTES

1. Signs and arrow panel may be omitted if all of the following conditions are met:
   a) Work operations are 60 minutes or less.
   b) Speed limit is 45 mph or less.
   c) No sight obstructions to vehicles approaching the work area for a distance equal to twice the taper length.
   d) Vehicles in the work area have high-intensity, rotating, flashing, oscillating, or strobe lights operating.
   e) Volume and complexity of the roadway has been considered.

## SYMBOLS

- Work Area
- Sign With 18" x 18' (Min.) Orange Flag And Type B Light
- Channelizing Device (See Index No. 600)
- Type III Barricade
- Work Zone Sign
- Advance Warning Arrow Panel
- Lane Identification + Direction of Traffic

2010 FDOT Design Standards

MULTILANE, WORK NEAR INTERSECTION MEDIAN OR OUTSIDE LANE

Last Revision 07/01/09

Sheet No. 1 of 3

Index No 616

REVISIONS

| NO. | DATE | DESCRIPTION |
|---|---|---|

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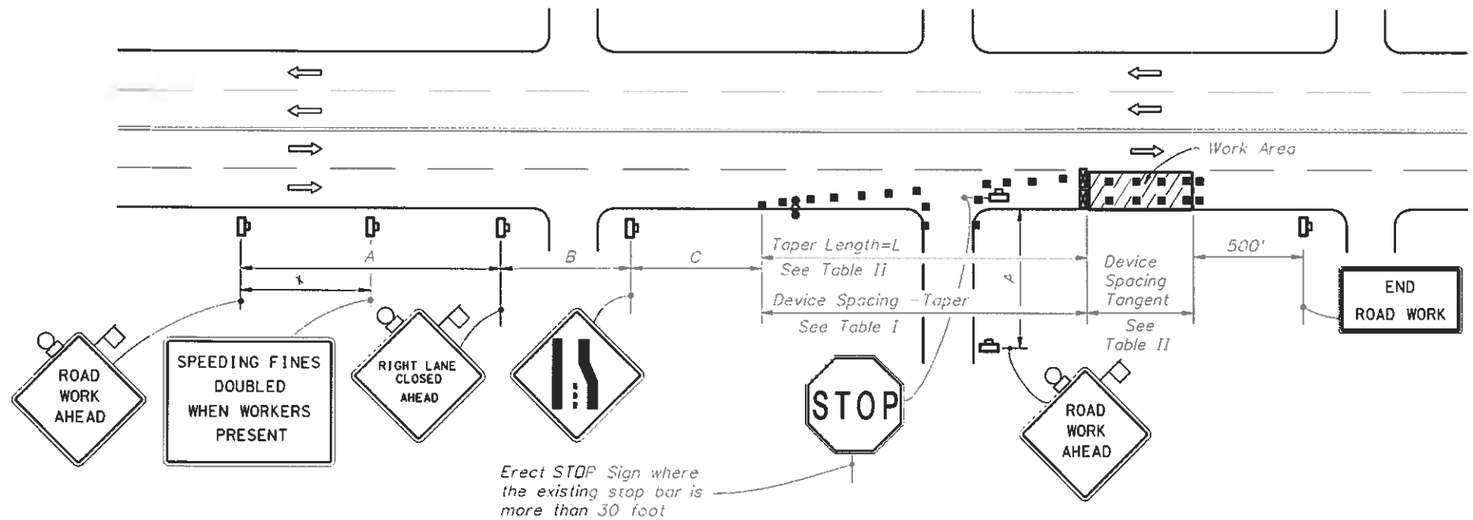
SEAL: James Scott Green, P.E. LICENSE NUMBER 1059

SHEET TITLE: FDOT DETAILS

PROJECT NAME: DESIGN OF CITYWIDE LANDSCAPE IMPROVEMENTS

SHEET NUMBER: MOT-08



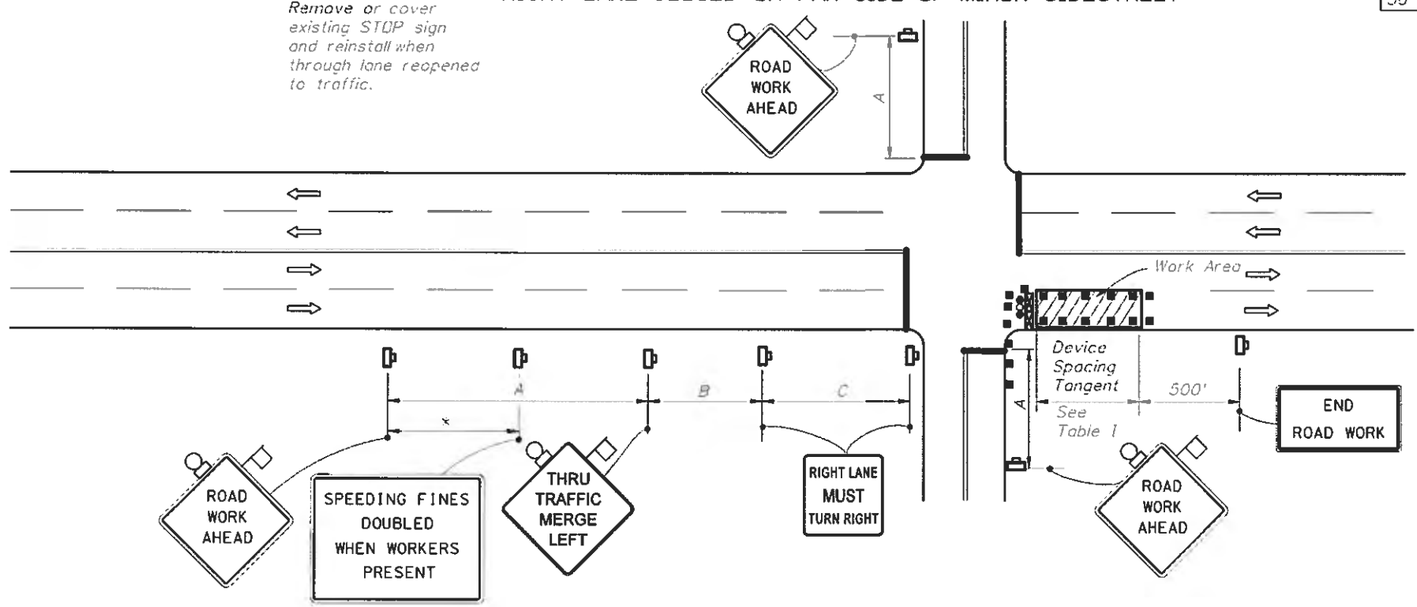

Erect STOP Sign where the existing stop bar is more than 30 foot from the taper line. Remove or cover existing STOP sign and reinstall when through lane reopened to traffic.

## RIGHT LANE CLOSED ON FAR SIDE OF MINOR SIDESTREET

| DISTANCE BETWEEN SIGNS | | | |
|---|---|---|---|
| Speed | Spacing (ft.) | | |
| | A | B | C |
| 40 mph or less | 200 | 200 | 200 |
| 45 mph | 350 | 350 | 350 |

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

| Table I Device Spacing | | | | |
|---|---|---|---|---|
| Speed (mph) | Max. Distance Between Devices (ft.) | | | |
| | Cones or Tubular Markers | | Type I or Type II Barricades or Vertical Panels or Drums | |
| | Taper | Tangent | Taper | Tangent |
| 25 | 25 | 50 | 25 | 50 |
| 30 to 45 | 25 | 50 | 30 | 50 |




| Table II Taper Length - Merge (12' Lateral Transition) | | |
|---|---|---|
| Speed (mph) | L (ft.) | Notes (Merge) |
| 25 | 125 | $L=\frac{WS^2}{60}$ |
| 30 | 180 | |
| 35 | 245 | |
| 40 | 320 | |
| 45 | 540 | $L=WS$ |

For lateral transitions other than 12', use formula for L shown in the notes column. Where:
L= Length of taper in feet
W= Width of lateral transition in feet
S= Posted speed limit (mph)

## RIGHT LANE CLOSED ON FAR SIDE OF INTERSECTION WITH SIGNIFICANT RIGHT TURNING MOVEMENTS

1. The normal procedure is to close on the near side of the intersection any lane that is not carried through the intersection. However, when this results in the closure of a right lane having significant right turning movements, then the right lane may be restricted to right turns only as shown in this detail.

2. For intersection approaches reduced to a single lane, left turning movements may be prohibited to maintain capacity for through vehicular traffic.

2010 FDOT Design Standards

# MULTILANE, WORK NEAR INTERSECTION MEDIAN OR OUTSIDE LANE

| Last Revision | Sheet No. |
|---|---|
| 07/01/09 | 2 of 3 |

Index No. 616

NO. | DATE | DESCRIPTION | REVISIONS
DESIGNED BY: | CHECKED BY:
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PROJECT NUMBER: 6140-001
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PREPARED FOR: CITY OF ST. PETE BEACH

SEAL: James Scott Green, P.L.A. LEED AP License Number 1628

SHEET TITLE: FDOT DETAILS

PROJECT NAME: DESIGN OF CITYWIDE LANDSCAPE IMPROVEMENTS

SHEET NUMBER: MOT-09

April 6, 2012 (08:57:30 EST)
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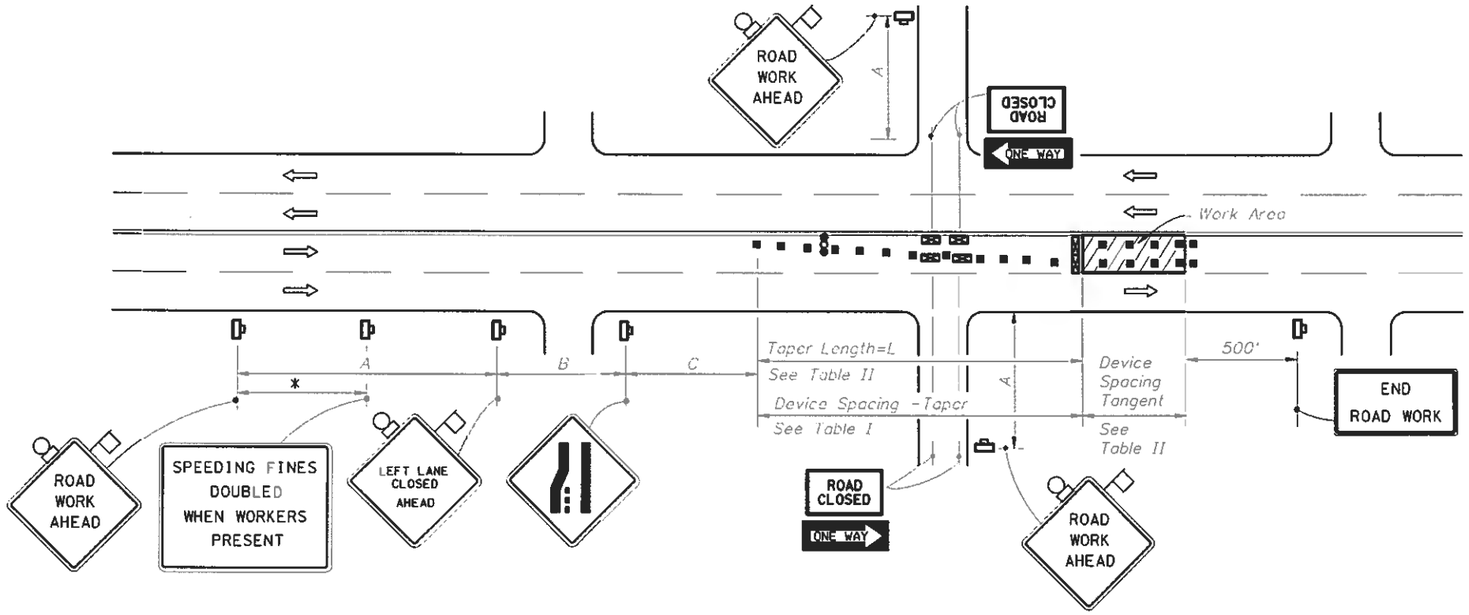
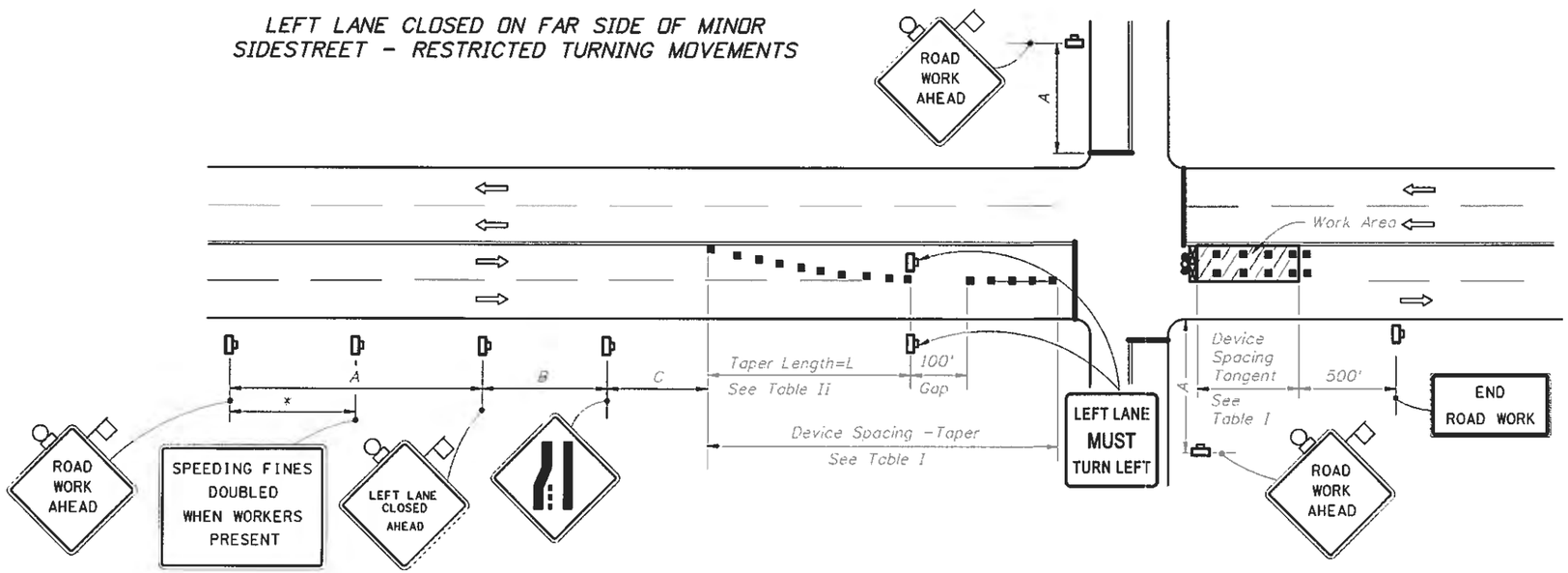



LEFT LANE CLOSED ON FAR SIDE OF MINOR SIDESTREET - RESTRICTED TURNING MOVEMENTS




LEFT LANE CLOSED ON FAR SIDE OF INTERSECTION TURNING MOVEMENTS ALLOWED

1. The normal procedure is to close on the near side of the intersection any lane that is not carried through the intersection. However, when this results in the closure of a left lane having significant right turning movements, then the left lane may be reopened as a turn bay for left turns only as show in this detail.

| DISTANCE BETWEEN SIGNS | | | |
|---|---|---|---|
| Speed | Spacing (ft.) | | |
| | A | B | C |
| 40 mph or less | 200 | 200 | 200 |
| 45 mph | 350 | 350 | 350 |

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

| Table I Device Spacing | | | | |
|---|---|---|---|---|
| Speed (mph) | Max. Distance Between Devices (ft.) | | | |
| | Cones or Tubular Markers | | Type I or Type II Barricades or Vertical Panels or Drums | |
| | Taper | Tangent | Taper | Tangent |
| 25 | 25 | 50 | 25 | 50 |
| 30 to 45 | 25 | 50 | 30 | 50 |

| Table II Taper Length - Merge (12' Lateral Transition) | | |
|---|---|---|
| Speed (mph) | L (ft.) | Notes (Merge) |
| 25 | 125 | $L=\frac{WS^2}{60}$ |
| 30 | 180 | |
| 35 | 245 | |
| 40 | 320 | |
| 45 | 540 | L=WS |

For lateral transitions other than 12', use formula for L shown in the notes column. Where:
L= Length of taper in feet
W= Width of lateral transition in feet
S= Posted speed limit (mph)

2010 FDOT Design Standards

MULTILANE, WORK NEAR INTERSECTION MEDIAN OR OUTSIDE LANE

Last Revision 07/01/09 | Sheet No. 3 of 3 | Index No. 616

REVISIONS: NO. | DATE | DESCRIPTION

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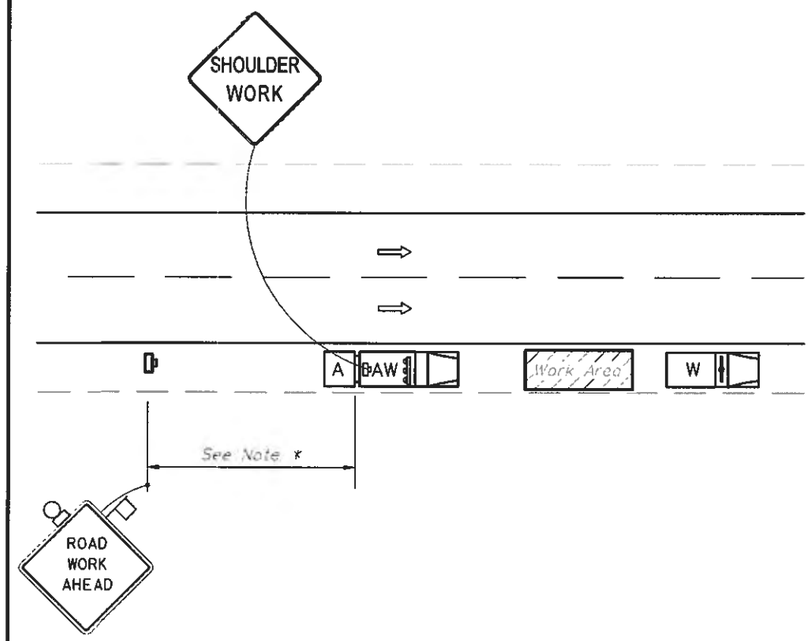
SEAL: James Scott Gibson, P.E., LEED® AP License Number 1635

SHEET TITLE: FDOT DETAILS

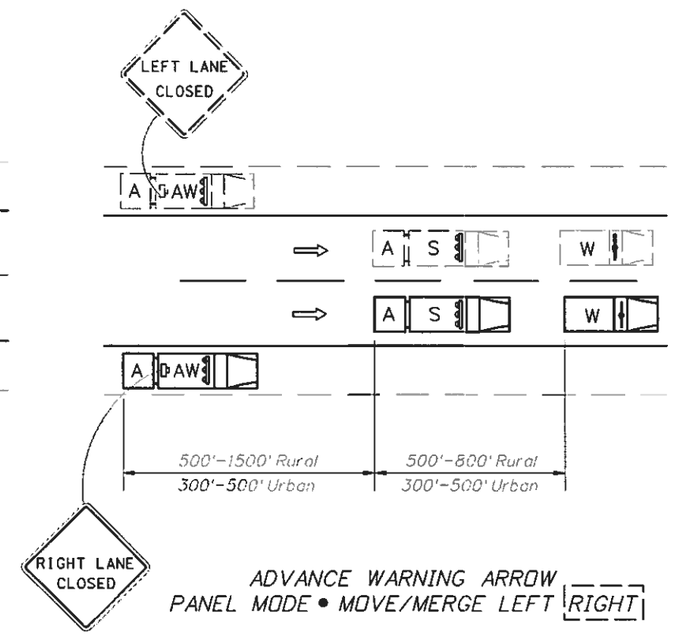
PROJECT NAME: DESIGN OF CITYWIDE LANDSCAPE IMPROVEMENTS

SHEET NUMBER: MOT-10



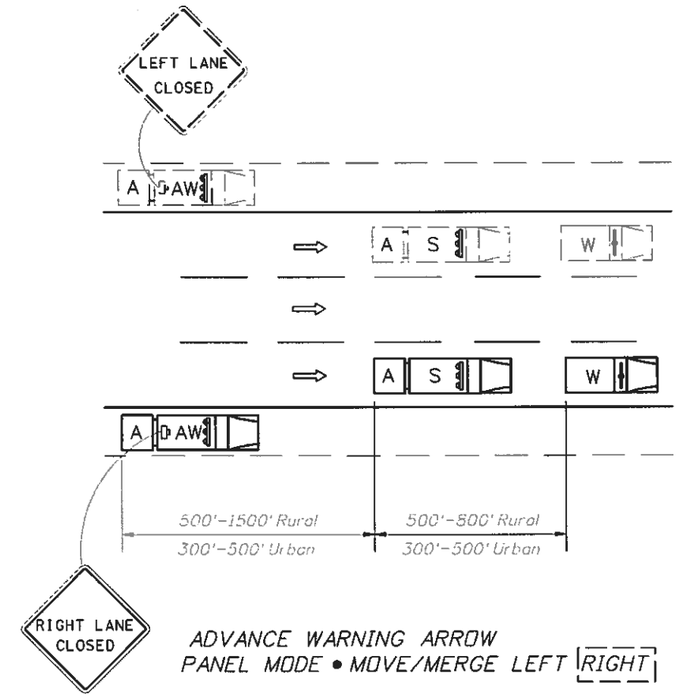

* The distance between the advance warning sign and the work location should not exceed 5 miles.

## WORK ON SHOULDER




ADVANCE WARNING ARROW PANEL MODE • MOVE/MERGE LEFT RIGHT

Where adequate shoulder width is not available, the advance warning vehicle may drive in the lane.




ADVANCE WARNING ARROW PANEL MODE • MOVE/MERGE LEFT RIGHT

Where adequate shoulder width is not available, the advance warning vehicle may drive in the lane.

## WORK WITHIN TRAVEL LANE

### GENERAL NOTES

1. These illustrations are representative of general conditions.
2. The intensity of light and position of panels shall be as specified in Index No. 600.
3. Vehicle-mounted signs shall be mounted with the bottom of the sign at a minimum height of 48 inches above the pavement. Sign legends shall be covered or turned from view when work is not in progress.
4. If the work vehicle speed exceeds the minimum legal speed limit on limited access facilities and one half the posted speed limit on other facilities, the engineer in charge may delete requirements for shadow vehicle and attenuators. The work vehicle will be required to have an advance warning arrow panel and sign message.
5. Where work activities within 2' of the edge of travelway are Incidental (i.e. Mowing, Litter Removal), the Engineer may delete requirements for signs and the advance warning vehicle provided vehicles in the work area have high-intensity rotating, flashing, oscillating, or strobe lights operating.
6. Shadow and Advance Warning Vehicle shall display rotating/strobe lights.
7. For general TCZ requirements and additional information, refer to Index No. 600.

### SYMBOLS

- W — Work Vehicle With Rotating/Strobe Lights
- X — Shadow (S) Or Advance Warning (AW) Vehicle with Advance Warning Arrow Panel and Sign Message
- A — Truck Mounted Attenuator (TMA)
- Lane Identification And Direction Of Traffic

### CONDITIONS

MOVING OPERATION

2010 FDOT Design Standards

MULTILANE, MOBILE OPERATIONS
WORK ON SHOULDER, WORK WITHIN THE TRAVEL WAY

| Last Revision | Sheet No. |
|---|---|
| 07/01/05 | 1 of 1 |

Index No 619

| NO. | DATE | DESCRIPTION |
|---|---|---|
| | | |

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SHEET TITLE FDOT DETAILS

PROJECT NAME DESIGN OF CITYWIDE LANDSCAPE IMPROVEMENTS

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