



INVITATION TO BID
CITY OF NAPLES
PURCHASING DIVISION
CITY HALL, 735 8TH STREET SOUTH
NAPLES, FL 34102
PH: 239-213-7100 FX: 239-213-7105

NOTIFICATION DATE: 05/18/15	<small>TITLE</small> Re-Bid Gulf Shore Boulevard North Median Landscaping	NUMBER: 15-047	OPENING DATE & TIME: 06/02/15 2:00 PM
PRE-BID DATE, TIME AND LOCATION: NONE			

LEGAL NAME OF PARTNERSHIP, CORPORATION OR INDIVIDUAL:	
MAILING ADDRESS:	
CITY-STATE-ZIP:	
PH:	EMAIL:
FX:	WEB ADDRESS:

<p>I certify that this bid is made without prior understanding, agreement, or connection with any corporation, firm, or person submitting a bid for the same materials, supplies, or equipment and is in all respects fair and without collusion or fraud. I agree to abide by all conditions of this bid and certify that I am authorized to sign this bid for the bidder. In submitting a bid to the City of Naples the bidder offers and agrees that if the bid is accepted, the bidder will convey, sell, assign or transfer to the City of Naples all rights, title, and interest in and to all causes of action it may now or hereafter acquire under the Anti-trust laws of the United States and the State of FL for price fixing relating to the particular commodities or services purchased or acquired by the City of Naples. At the City's discretion, such assignment shall be made and become effective at the time the City tenders final payment to the bidder.</p> <p style="text-align: center;">FEI/EIN Number _____</p>		
AUTHORIZED SIGNATURE	DATE	PRINTED NAME/TITLE
<small>Please initial by all that apply</small> <small>I acknowledge receipt / review of the following addendum</small> ____ Addendum #1 ____ Addendum #2 ____ Addendum #3 ____ Addendum #4		

PLEASE NOTE THE FOLLOWING:

- > **This page must be completed and returned with your bid.**
- > **Bids must be submitted in a sealed envelope, marked with bid number & closing date.**
- > **Bids received after the above closing date and time will not be accepted.**
- > **If you do not have an email address and you want a copy of the Bid Tab, please enclose a stamped, self-addressed envelope with your bid.**

GENERAL CONDITIONS

TO INSURE ACCEPTANCE OF THE BID, PLEASE FOLLOW THESE INSTRUCTIONS. ANY AND ALL SPECIAL CONDITIONS, ATTACHED HERETO, HAVE PRECEDENCE.

1. SEALED BID: All bids must be submitted in a sealed envelope. The face of the envelope shall contain the bid name and bid number. Bids not submitted on attached bid form shall be rejected. All bids are subject to the conditions specified herein. Those which do not comply with these conditions are subject to rejection.

2. EXECUTION OF BID: Bid must contain a manual signature of authorized representative in the proposal section. Bid must be typed or printed in ink. Use of erasable ink is not permitted. All corrections made by bidder to his bid must be initialed.

3. NO BID: If not submitting a bid, respond by returning the Statement of No Bid and explain the reason in the spaces provided. Failure to respond 3 times in succession without justification shall be cause for removal of the supplier's name from the bid mailing list. NOTE: To qualify as a respondent, bidder must submit a "NO BID," and it must be received no later than the stated bid opening date and hour.

4. BID OPENING: Shall be public, on the date and at the time specified on the bid form. It is the bidder's responsibility to assure that his bid is delivered at the proper time and place of the bid opening. Bids which for any reason are not so delivered will not be considered. Offers by telegram, telephone; or fax are not acceptable. Bid files may be examined during normal working hours.

5. WITHDRAWAL OF BIDS: Withdrawal of a bid within sixty (60) days after the opening of bids is subject to suspension or debarment in accordance with Section 2-668 of the City Code for up to three years.

6. PRICES, TERMS and PAYMENT: Firm Prices include all packing, handling, shipping charges and delivery to the destination shown herein. Bidder is encouraged to offer cash discount for prompt invoice payment. Terms of less than 20 days will not be considered.

A. TAXES: The City of Naples does not pay Federal Excise and Sales taxes on direct purchases of tangible personal property. See exemption number on face of purchase order. This exemption does not apply to purchases of tangible personal property made by contractors who use the tangible personal property in the performance of contracts for the improvement of City-owned real property.

B. MISTAKES: Bidders are expected to examine the specifications, delivery schedule, bid prices, extensions, and all instructions pertaining to supplies and services. Failure to do so will be at bidder's risk. In case of mistake in extension, the unit price will govern.

C. CONDITION AND PACKAGING: It is understood and agreed that any item offered or shipped as a result of this bid shall be a new, current standard production model available at the time of this bid. All containers shall be suitable for storage or shipment, and all prices shall include standard commercial packaging.

D. SAFETY STANDARDS: Unless otherwise stipulated in the bid, all manufactured items and fabricated assemblies shall comply with applicable requirements of Occupational Safety and Health Act and any standards there under.

E. UNDERWRITERS' LABORATORIES: Unless otherwise stipulated in the bid, all manufactured items and fabricated assemblies shall carry U.L. approval and re-examination listing where such has been established.

F. PAYMENT: Payment will be made by the buyer after the items awarded to a vendor have been received, inspected, and found to comply with award specifications, free of damage or defect and properly invoiced. All invoices shall bear the purchase order number. Payment for partial shipments shall not be made unless specified in the bid. Failure to follow these instructions may result in delay in processing invoices for payment. In addition, the purchase order number must appear on bills of lading, packages, cases, delivery lists and correspondence.

7. DELIVERY: Unless actual date of delivery is specified (or if specified delivery cannot be met), show number of days required to make delivery after receipt of purchase order in space provided. Delivery time may become a basis for making an award (see Special Conditions). Delivery shall be within the normal working hours of the user, Monday through Friday, unless otherwise specified.

8. MANUFACTURERS' NAMES AND APPROVED EQUIVALENTS: Any manufacturers' names, trade names, brand names, information and/or catalog numbers listed in a specification are for information and not intended to limit competition. The bidder may offer any brand for which he is an authorized representative, which meets or exceeds the specification for any item(s). If bids are based on equivalent products, indicate on the bid form the manufacturer's name and number. Bidder shall submit with his proposal, cuts, sketches, and descriptive literature, and/or complete specifications. Reference to literature submitted with a previous bid will not satisfy this provision. The bidder shall also explain in detail the reason(s) why the proposed equivalent will meet the specifications and not be considered an exception thereto. Bids which do not comply with these requirements are subject to rejection. Bids lacking any written indication of intent to quote an alternate brand will be received and considered in complete compliance with the specifications as listed on the bid form.

9. INTERPRETATIONS: Any questions concerning conditions and specifications shall be directed in writing to this office for receipt no later than ten (10) days prior to the bid opening. Inquiries must reference the date of bid opening and bid number. Failure to comply with this condition will result in bidder waiving his right to dispute the bid.

10. CONFLICT OF INTEREST: All bid awards are subject to Section 2-973 Conflict of Interest, City of Naples Code of Ordinances, which states: *"No public officer or employee shall have or hold any employment or contractual relationship with any business entity or any agency which is subject to the regulation of or is doing business with the city; nor shall an officer or employee have or hold any employment or contractual relationship that will create a continuing or frequently recurring conflict between his private interests and the performance of his public duties or that would impede the full and faithful discharge of his public duties. Any member of the city council or any city officer or employee who willfully violates this section shall be guilty of malfeasance in office or position and shall forfeit his office or position. Violation of this section with the knowledge, express or implied, of the person or corporation contracting with or making a sale to the city shall render the contract or sale voidable by the city manager or the city council."*

11. AWARDS: As the best interest of the City may require, the right is reserved to make award(s) by individual item, group of items, all or none, or a combination thereof; to reject any and all bids or waive any minor irregularity or technicality in bids received.

12. ADDITIONAL QUANTITIES: For a period not exceeding ninety (90) days from the date of acceptance of this offer by the buyer, the right is reserved to acquire additional quantities up to but not exceeding those shown on bid at the prices bid in this invitation. If additional quantities are not acceptable, the bid sheets must be noted "BID IS FOR SPECIFIED QUANTITY ONLY." (THIS PARAGRAPH DOES NOT APPLY FOR A TERM CONTRACT.)

13. SERVICE AND WARRANTY: Unless otherwise specified, the bidder shall define any warranty service and replacements that will be provided during and subsequent to this contract. Bidders must explain on an attached sheet to what extent warranty and service facilities are provided.

14. SAMPLES: Samples of items, when called for, must be furnished free of expense, on or before bid opening time and date, and if not destroyed may, upon request, be returned at the bidder's expense. Each individual sample must be labeled with bidder's name, manufacturer's brand name and number, bid number and item reference. Request for return of samples shall be accompanied by instructions which include shipping authorization and name of carrier and must be received with your bid. If instructions are not received within this time, the commodities shall be disposed of by the City of Naples.

15. BID PROTEST: The city has formal bid protest procedures that are available on request.

16. INSPECTION, ACCEPTANCE AND TITLE: Inspection and acceptance will be at destination unless otherwise provided. Title and risk of loss or damage to all items shall be the responsibility of the contract supplier until accepted by the ordering agency, unless loss or damage results from negligence by the ordering

17. DISPUTES: In case of any doubt or difference of opinion as to the items to be furnished hereunder, the decision of the buyer shall be final and binding on both parties.

18. GOVERNMENTAL RESTRICTIONS: In the event any governmental restrictions may be imposed which would necessitate alteration of the material, quality, workmanship or performance of the items offered on this proposal prior to their delivery, it shall be the responsibility of the successful bidder to notify the buyer at once, indicating in his letter the specific regulation which required an alteration. The City reserves the right to accept any such alteration, including any price adjustments occasioned thereby, or to cancel the contract at no expense to the City.

19. LEGAL REQUIREMENTS: Applicable provision of all Federal, State, county and local laws, and of all ordinances, rules, and regulations shall govern development submittal and evaluation of all bids received in response hereto and shall govern any and all claims and disputes which may arise between person(s) submitting a bid response hereto and the City of Naples by and through its officers, employees and authorized representatives, or any other person, natural or otherwise; and lack of knowledge by any bidder shall not constitute a cognizable defense against the legal effect thereof.

20. PATENTS AND ROYALTIES: The bidder, without exception, shall indemnify and save harmless the City of Naples and its employees from liability of any nature or kind, including cost and expenses for or on account of any copyrighted, patented, or unpatented invention, process, or article manufactured or used in the performance of the contract, including its use by the City of Naples. If the bidder uses any design, device, or materials covered by letters, patent or copyright, it is mutually agreed and understood without exception that the bid prices shall include all royalties or cost arising from the use of such design, device, or materials in any way involved in the work.

21. ADVERTISING: In submitting a bid, bidder agrees not to use the results there from as a part of any commercial advertising.

22. ASSIGNMENT: Any Purchase Order issued pursuant to this bid invitation and the monies which may become due hereunder are not assignable except with the prior written approval of the buyer.

23. LIABILITY: The supplier shall hold and save the City of Naples, its officers, agents, and employees harmless from liability of any kind in the performance of this contract.

24. PUBLIC ENTITY CRIMES: A person or affiliate who has been placed on the convicted vendor list following a conviction for a public entity crime may not submit a bid on a contract to provide any goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not be awarded or perform work as a contractor, supplier, subcontractor, or consultant under a contract with any public entity, and may not transact business with any public entity in excess of the threshold amount provided in Section 287.017, for CATEGORY TWO for a period of 36 months from the date of being placed on the convicted vendor list.

25. DISCRIMINATION: An entity or affiliate who has been placed on the discriminatory vendor list may not submit a bid on a contract to provide goods or services to a public entity, may not submit a bid on a contract with a public entity for the construction or repair of a public building or public work, may not submit bids on leases of real property to a public entity, may not award or perform work as a contractor, supplier, subcontractor, or consultant under contract with any public entity, and may not transact business with any public entity.

26. COUNTY TAXES: No proposal shall be accepted from and no contract will be awarded to any person, firm or corporation that is in arrears to the government of Collier County, Florida.

27. OFFER EXTENDED TO OTHER GOVERNMENTAL ENTITIES: The City of Naples encourages and agrees to the successful bidder/proposer extending the pricing, terms and conditions of this solicitation or resultant contract to other governmental entities at the discretion of the successful bidder/proposer.

IF THIS BID IS FOR A TERM CONTRACT, THE FOLLOWING CONDITIONS SHALL ALSO APPLY

28. ELIGIBLE USERS: All departments of the City of Naples are eligible to use this term contract. Such purchases shall be exempt from the competitive bid requirements otherwise applying to their purchases.

29. PRICE ADJUSTMENTS: Any price decrease effectuated during the contract period by reason of market change shall be passed on to City of Naples. Price increases are not acceptable.

30. CANCELLATION: All contract obligations shall prevail for at least one hundred eighty (180) days after effective date of contract. After that period, for the protection of both parties, this contract may be cancelled in whole or in part by either party by giving thirty (30) days prior written notice to the other party.

31. RENEWAL: The City of Naples reserves the option to renew the period of this contract, or any portion thereof for up to two (2) additional periods. Renewal of the contract period shall be by mutual agreement in writing.

32. ABNORMAL QUANTITIES: While it is not anticipated, should any unusual or abnormal requirements arise, the City reserves the right to solicit separate bids thereon.

33. FISCAL NON-FUNDING CLAUSE: In the event sufficient funds are not budgeted for a new fiscal period, the City shall notify the contractor of such occurrence and the contract shall terminate on the last day of the current fiscal year without penalty or expense to the City.

IF THIS BID IS FOR PERFORMING A SERVICE, THE FOLLOWING CONDITIONS SHALL ALSO APPLY

34. ALTERNATIVE BIDS: Bidders offering service delivery methods other than those permitted by the scope of work may submit a separate envelope clearly marked "ALTERNATIVE BID". Alternative bids will be deemed non-responsive and will not be considered for award. All such responses will, however, be examined prior to award. Such examination may result in cancellation of all bids received to permit rewriting the scope of work to include the alternative method, or the alternative method may be considered for future requirements of the City of Naples.

35. ANTITRUST: By entering into a contract, the contractor conveys, sells, assigns and transfers to the City of Naples all rights, titles and interest it may now have or hereafter acquire under the antitrust laws of the United States and the State of Florida that relate to the particular goods or services purchased or acquired by the City of Naples under said contract.

36. BIDDER INVESTIGATIONS: Before submitting a bid, each bidder shall make all investigations and examinations necessary to ascertain all site conditions and requirements affecting the full performance of the contract and to verify any representations made by the City of Naples upon which the bidder will rely. If the bidder receives an award as a result of its bid submission, failure to have made such investigations and examinations will in no way relieve the bidder from its obligation to comply in every detail with all provisions and requirements of the contract documents, nor will a plea of ignorance of such conditions and requirements be accepted as a basis for any claim whatsoever by the contractor for additional compensation.

37. CERTIFICATES AND LICENSES: The Contractor, at time of proposal, shall possess the correct occupational licenses, all professional licenses or other authorizations necessary to carry out and perform the work required by the City of Naples and Collier County for this project pursuant to all applicable Federal, State and Local Laws, Statutes, Ordinances, and rules and regulations of any kind.

38. CHANGE IN SCOPE OF WORK: The City of Naples may order changes in the work consisting of additions, deletions or other revisions within the general scope of the contract. No claims may be made by the contractor that the scope of the project or of the contractor's services has been changed, requiring changes to the amount of compensation to the contractor or other adjustments to the contract unless such changes or adjustments have been made by written amendment to the contract signed by the City of Naples and the contractor. If the contractor believes that any particular work is not within the scope of the project, is a material change, or will otherwise require more compensation to the contractor, the contractor must immediately notify the City in writing of this belief. If the City believes that the particular work is within the scope of the contract as written, the contractor will be ordered to and shall continue with the work as changed and at the cost stated for the work within the scope.

39. CONTRACTOR PERSONNEL: The City of Naples shall, throughout the life of the contract, have the right of reasonable rejection and approval of staff or subcontractors assigned to the work by the contractor. If the City

reasonably rejects staff or subcontractors, the contractor must provide replacement staff or subcontractors satisfactory to the City in a timely manner and at no additional cost to the City. The day-to-day supervision and control of the contractor's employees and sub-contractors is the responsibility solely of the contractor.

40. COST REIMBURSEMENT: The contractor agrees that all incidental costs, including allowances for profit and tools of the trade, must be included in the bid proposal rates. If an arrangement is made between the contractor and the City to reimburse the contractor for the cost of materials provided in the performance of the work, the contractor shall be reimbursed in the following manner: The City shall reimburse the contractor on completion and acceptance of each assigned job, only for those materials actually used in the performance of the work that is supported by invoices issued by the suppliers of the contractor describing the quantity and cost of the materials purchased. No surcharge shall be added to the supplier's invoices or included in the contractor's invoice submitted to the City that would increase the dollar amount indicated on the supplier's invoice for the materials purchased for the assigned job.

41. EXCEPTIONS: Bidders taking exception to any part or section of the solicitation shall indicate such exceptions on the bid form. Failure to indicate any exception will be interpreted as the bidder's intent to comply fully with the requirements as written. Conditional or qualified bids, unless specifically allowed, shall be subject to rejection in whole or in part.

42. FAILURE TO DELIVER: In the event of the contractor to fail to deliver services in accordance with the contract terms and conditions, the City, after due oral or written notice, may procure the services from other sources and hold the contractor responsible for any resulting purchase and administrative costs. This remedy shall be in addition to any other remedies that the City may have.

43. FAILURE TO ENFORCE: Failure by the City at any time to enforce the provisions of the contract shall not be construed as a waiver of any such provisions. Such failure to enforce shall not affect the validity of the contract or any part thereof or the right of the City to enforce any provision at any time in accordance with its terms.

44. FORCE MAJEURE: The contractor shall not be held responsible for failure to perform the duties and responsibilities imposed by the contract due to legal strikes, fires, riots, rebellions and acts of God beyond the control of the contractor, unless otherwise specified in the contract.

45. INDEPENDENT CONTRACTOR: The contractor shall be legally considered an independent contractor and neither the contractor nor its employees shall, under any circumstances, be considered servants or agents of the City of Naples and the City of Naples shall be at no time legally responsible for any negligence or any wrongdoing by the contractor, its servants or agents. The City of Naples shall not withhold from the contract payments to the contractor any federal income taxes, Social Security tax, or any other amounts for benefits to the contractor. Further, the City shall not provide to the contractor any insurance coverage or other benefits, including Workers' Compensation normally provided by the City for its employees.

46. ORAL STATEMENTS: No oral statement of any person shall modify or otherwise affect the terms, conditions or specifications stated in this contract. All modifications to the contract must be made in writing by the City of Naples.

47. QUALIFICATIONS OF BIDDERS: The bidder may be required, before the award of any contract, to show to the complete satisfaction of the City of Naples that it has the necessary facilities, ability, and financial resources to provide the service specified therein in a satisfactory manner. The bidder may also be required to give a past history and references in order to satisfy the City in regard to the bidder's qualifications. The City may make reasonable investigations deemed necessary and proper to determine the ability of the bidder to perform the work, and the bidder shall furnish to the City all information for this purpose that may be requested. The City reserves the right to reject any bid if the evidence submitted by, or investigation of, the bidder fails to satisfy the City that the bidder is properly qualified to carry out the obligations of the contract and to complete the work described therein. Evaluation of the bidder's qualifications shall include:

- > The ability, capacity, skill and financial resources to perform the work or service.
- > The ability to perform the work service promptly or within the time specified, without delay.
- > The character, integrity, reputation, judgment, experience, and efficiency of the bidder.
- > The quality of performance of previous contracts or services.

48. QUALITY CONTROL: The contractor shall institute and maintain throughout the contract period a properly documented quality control program designed to ensure that the services are provided at all times and in all respects in accordance with the contract. The program shall include providing daily supervision and conducting frequent inspections of the contractor's staff and ensuring that accurate records are maintained describing the disposition of all complaints. The records so created shall be open to inspection by the City.

49. RECOVERY OF MONEY: Whenever, under the contract, any sum of money shall be recoverable from or payable by the contractor to the City, the same amount may be deducted from any sum due to the contractor under the contract or under any other contract between the contractor and the City. The rights of the City are in addition and without prejudice to any other right the City may have to claim the amount of any loss or damage suffered by the City on account of the acts or omissions of the contractor.

50. REQUIREMENTS CONTRACT: During the period of the contract, the contractor shall provide all the services described in the contract. The contractor understands and agrees that this is a requirements contract and that the City shall have no obligation to the contractor if no services are required. Any quantities that are included in the scope of work reflect the current expectations of the City for the period of the contract. The amount is only an estimate and the contractor understands and agrees that the City is under no obligation to the contractor to buy any amount of services as a result of having provided this estimate or of having any typical or measurable requirement in the past. The contractor further understands and agrees that the City may require services in excess of the estimated annual contract amount and that the quantity actually used whether in excess of, or less than, the estimated annual contract amount and that the quantity actually used shall not give rise to any claim for compensation other than the total of the unit prices in the contract for the quantity actually used.

51. TERMINATION FOR CONVENIENCE: The performance of work under the contract may be terminated by the City in whole or in part whenever the City determines that termination is in the City's best interest. Any such termination shall be effected by the delivery to the contractor of a written notice of termination of at least seven (7) days before the date of termination, specifying the extent to which performance of the work under the contract is terminated and the date upon which such termination becomes effective. After receipt of a notice of termination, except as otherwise directed, the contractor shall stop work on the date of the receipt of the notice or other date specified in the notice; place no further orders or subcontracts for materials, services or facilities except as necessary for completion of such portion of the work not terminated; terminate all vendors and subcontracts; and settle all outstanding liabilities and claims.

52. TERMINATION FOR DEFAULT: The City of Naples reserves the right to terminate the contract if the City determines that the contractor has failed to perform satisfactorily the work required, as determined by the City. In the event the City decides to terminate the contract for failure to perform satisfactorily, the City shall give to the contractor at least seven (7) days written notice before the termination takes effect. The seven-day period will begin upon the mailing of notice by the City. If the contractor fails to cure the default within the seven (7) days specified in the notice and the contract is terminated for failure to perform satisfactorily, the contractor shall be entitled to receive compensation for all reasonable, allocable and allowable contract services satisfactorily performed by the contractor up to the date of termination that were accepted by the City prior to the termination. In the event the City terminates the contract because of the default of the contractor, the contractor shall be liable for all excess costs that the City is required to expend to complete the work under contract.

53. STATE AND FEDERAL EMPLOYMENT LAWS: Contractors providing service to the City are required to comply with all state and federal employment laws. This includes, but is not limited to, laws resulting from the Immigration and Reform and Control Act of 1986, wherein all employers are required to verify the identity and employment eligibility of all employees. The Department of Homeland Security, U.S. Citizenship and Immigration Services require employees and employers to complete Form I-9 and the employer must examine evidence of identity and employment eligibility within three business days of the date employment begins. Non compliant contractors will be subject to contract sanctions, up to and including contract termination.

54. CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY, AND VOLUNTARY EXCLUSION: The contractor agrees to comply with Executive Order 12549 "Debarment and Suspension" and 2 CFR 180 "OMB Guidelines to Agencies on Government wide Debarment and Suspension."

These rules require all contractors using federal funds not be debarred or suspended from doing business with the Federal Government. This includes sub-recipients and lower tier participant for covered transactions. Signing and submitting this document certified the organization and its principals are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any federal department or agency, and further have not within the preceding three-year period been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction .

THE CITY OF NAPLES IS AN EQUAL OPPORTUNITY EMPLOYER

GENERAL INSURANCE REQUIREMENTS

The Contractor shall not commence work until he has obtained all the insurance required under this heading, and until such insurance has been approved by the Owner, nor shall the Contractor allow any subcontractor to commence work until all similar insurance required of the subcontractor has also been obtained and approved by the Owner.

Certificates of insurance must be issued by an authorized representative of the insurance company at the request and direction of the policyholder and must include sufficient information so as to identify the coverage and the contract for Owner's improvements for which they are issued. Certificates of insurance must be issued by a nationally recognized insurance company with a Best's Rating of no less than B+VII, satisfactory to the Owner, and duly licensed to do business in the state of said Contract.

The Contractor shall procure and maintain, during the life of this Contract, Worker's Compensation Insurance for all of his employees to be engaged in work under this Contract, and he shall require any subcontractor similarly to provide Worker's Compensation Insurance for all of the latter's employees to be engaged in such work, unless such employees are covered by the protection afforded by the Contractor's insurance. In case any employees are to be engaged in hazardous work under this Contract, and are not protected under this Worker's Compensation statute, the Contractor shall provide, and shall cause each subcontractor to provide, adequate coverage for the protection of such employees. It is acceptable to use a State-approved Worker's Compensation Self-Insurance fund.

The Contractor shall take out and maintain during the life of this Contract, Public Liability and Property Damage and shall include Contractual Liability, Personal Injury, Libel, Slander, False Arrest, Malicious Prosecution, Wrongful Entry or Eviction, Broad Form Property Damage, Products, Completed Operations and XCU Coverage to be included on an occurrence basis, and to the full extent of the Contract to protect him, the Owner, and any subcontractor performing work covered by this Contract from damages for personal injury, including accidental death, as well as from claims for property damage, which may arise from operations under this contract, whether such operations be by himself or by a subcontractor, or by anyone directly or indirectly employed by either of them. The Contractor shall also maintain automobile liability insurance including "non-owned and hired" coverage. The entire cost of this insurance shall be borne by the Contractor.

The amount of such insurance shall be no less than \$1,000,000 annual aggregate for bodily injury and property damage combined per occurrence.

The City of Naples must be named as Additional Insured on the insurance certificate and the following must also be stated on the certificate. "This coverage is primary to all other coverage the City possesses for this contract only." The City of Naples shall be named as the Certificate Holder. The Certificate Holder shall read as follows:

The City of Naples
735 Eighth Street South
Naples, Florida 34102

No City Division, Department, or individual name should appear on the Certificate.

No other format will be acceptable.

The Certificate must state the proposal number and title.

When using the "Accord"- 25 Certificate of Insurance only the most current version will be accepted.

The City of Naples requires a copy of a cancellation notice in the event the policy is cancelled. The City of Naples shall be expressly endorsed onto the policy as a cancellation notice recipient.

STATEMENT OF NO BID

If you will not be bidding on this product/service, please help us by completing and returning only this page to:

City of Naples, Purchasing Division
City Hall, 735 8th Street South
Naples, FL 34102
Fax 239-213-7105

Bid # _____ and Description: _____

We, the undersigned, decline to proposal on the above project for the following reason(s):

- ___ We are not able to respond to the Invitation to Bid or by the specified deadline.
- ___ Our Company does not offer this product or service.
- ___ Our current work schedule will not permit us to perform the required services.
- ___ Specifications are incomplete or information is unclear
(Please explain below).

___ Other (Please specify below)

Company Name _____ PH _____

Name and Title of individual completing this form:

(Printed Name) (Title)

(Signature) (Date)

REFERENCES

THIS SHEET MUST BE COMPLETED AND RETURNED WITH BID

PROVIDE AT LEAST THREE REFERENCES FOR WHOM YOUR COMPANY HAS PROVIDED SAME OR SIMILAR SERVICES WITHIN THE LAST 2 YEARS.

COMPANY NAME: _____

ADDRESS: _____

TELEPHONE: _____

CONTACT PERSON: _____

CONTACT E-MAIL ADDRESS: _____

COMPANY NAME: _____

ADDRESS: _____

TELEPHONE: _____

CONTACT PERSON: _____

CONTACT E-MAIL ADDRESS: _____

COMPANY NAME: _____

ADDRESS: _____

TELEPHONE: _____

CONTACT PERSON: _____

CONTACT E-MAIL ADDRESS: _____

Submitting Vendor Name: _____

CONSTRUCTION
SPECIAL CONDITIONS

A. **TERMS OF CONTRACT**

The resulting contract will commence on award and be in effect until completion of the project. Services to be rendered by the contractor shall be commenced subsequent to the execution of this Agreement upon written Notice to Proceed from the City for all or any designated portion of the Project must be completed by the contract dates specified within the Notice to Proceed for construction. Should contractor fail to complete the project within this timeframe, daily liquidated damages in an amount of \$100.00 per day will be assessed. **RETAINAGE**; As a method to assure completion of the total project, retainage in the amount of twenty percent (20%) of all work completed will be withheld from the payment. The twenty percent (20%) will not be released until all work; including proper watering, weed treatment, sprout removal, and replacement of any dead plant material has been completed, inspected and accepted by the City. The retainage will be released upon completion of the warranty period.

B. **PROHIBITION OF CONTACT**

Under no circumstances should any prospective organization or individual, or anyone acting for or on behalf of a prospective organization or individual, seek to influence or gain the support of any member of the City Council, public official or City staff favorable to the interest of any prospective organization or individual. Likewise, contact with City Council, any public official or city staff against the interests of other prospective organization (s) and or individual(s) is prohibited. Any such activities will result in the exclusion of the prospective organization or individual from consideration by the City.

C. **REFERENCES**

Bidder must submit a minimum of three references on the form provided. Additionally, a signed and dated IRS W-9 form with EIN is required from all vendors.

D. **STATEMENT OF NO BID**

If you will not be bidding on this producer/service, please help us by completing and returning the Statement of No Bid.

E. **BID FORMAT**

The Contract, if awarded, will be awarded on the basis of material and equipment illustrated and described on the Drawings or specified in the Specification. If a substitution or an “or equal” item is proposed, Proposer must submit this information to the City of Naples Purchasing Department ten (10) days prior to the Proposal Date for evaluation as an acceptable substitution or an “or equal” item. If the substitution or the “or equal” item is accepted, the City of Naples will issue an Addendum to all Proposers listing the allowable substitution or the “or equal” item. The cost of changes in related work, additional drawings which may be required to illustrate or define the substitute or “or equal” equipment and its relationship to the other parts or portions of the Work shall be paid by the Contractor. No change will be made in the amount of time in which to complete the Work or in the liquidated damages.

F. **BID SECURITY / BID BOND**

It is the policy of the City of Naples to require a Bid Bond for all construction-related sealed bids estimated to be in excess of \$100,000. A bid bond or equivalent financial security in the amount of five (5) percent of the bid price shall be required and must accompany all bids. The Bid Bond is to be provided by a surety company authorized to do business in the State of Florida or otherwise supplied in a form satisfactory to the City. The bid bond must be submitted with the

bid. When the invitation for bids requires a bid bond, noncompliance will result in rejection of the bid.

Note that failure or refusal of the awarded bidder to enter into a contract within twenty (20) calendar days after receipt of said contract will result in damages to the City and bid bond will be forfeited to the City as liquidated damages.

G. PROPOSAL CONSTRUCTION PERFORMANCE & PAYMENT BONDS

A Performance and Payment Bond will be required of the Awarded Proposer for any contract that is in excess of \$100,000.00 dollars and will be in an amount equal to 100 (%) percent of the price specified in the Contract.

The bond(s) shall be executed by a surety company authorized to do business in the State of Florida, or otherwise secured in a manner satisfactory to the City for the protection of all persons supplying labor and material to the contractor or its subcontractors for the performance of the work provided for in the contract.

Proof of insurance from the successful proposer is required at the time of issuance and award of a contract.

H. QUESTIONS

Questions regarding this proposer packet must be received in writing in the Purchasing Division NO LATER THAN FIVE CALENDAR DAYS PRIOR TO THE PROPOSAL CLOSING DATE TO ENSURE AN ANSWER IS PROVIDED PRIOR TO CLOSING.

Direct all questions to:
Gerald "Jed" Secory, MBA / CPPO / CPM
Purchasing Manager
City of Naples, Purchasing Division
735 8th Street South
Naples, Florida 34102
PH: (239) 213-7102 FX: (239) 213-7105
jsecory@naplesgov.com

SUBMISSION CHECKLIST

Bidder should check off each of the following items as completed and submit with bid response:

CHECKLIST ELEMENTS	INCLUDED
<ul style="list-style-type: none"> • Submit one (1) original signature and one (1) copy of your original bid proposal / document AND a Windows© compatible PDF of the original document on a CD or Flash / Thumb Drive that is clearly labeled. 	<input type="checkbox"/>
<ul style="list-style-type: none"> • Include any required drawings; descriptive literature; qualifications; schedules; product compliance / exceptions; alternatives; questionnaire; references, forms, tabs, pricing/cost; and any information required of the proposer identified in the text of the bid including information for bid evaluation. 	<input type="checkbox"/>
<ul style="list-style-type: none"> • Include any delivery information. 	<input type="checkbox"/>
<ul style="list-style-type: none"> • Mandatory FORMS from this document to be included are: <u>Cover Sheet</u>, <u>References Sheet</u>, <u>Submission Checklist Sheet</u>, and <u>Cost / Compensation Schedule</u>. 	<input type="checkbox"/>
<ul style="list-style-type: none"> • Have an authorized individual sign the appropriate pages including the <u>Cover Sheet</u> with any bid addendums initialed. Also, examples of vendor contracts used by the City can be found on the Naples Purchasing web site and should be reviewed by the vendor. 	<input type="checkbox"/>
<ul style="list-style-type: none"> • Bid proposal / document needs to be received by the OPENING DATE & TIME indicated on the Cover Sheet. The mailing envelope must be addressed to: <div style="text-align: center;"> City of Naples Purchasing Division 735 8th Street South Naples, Florida 34102 </div> 	<input type="checkbox"/>
<p style="text-align: center;">The mailing envelope should be sealed and marked with:</p> <p>BID Number: 15-047 BID Title: Re-Bid Gulf Shore Boulevard North Median Landscaping BID Opening Date: June 2, 2015</p>	<input type="checkbox"/>

ALL COURIER DELIVERED PROPOSALS MUST HAVE THE BID NUMBER AND TITLE ON THE OUTSIDE OF THE COURIER PACKET.

Submitting Vendor Name: _____

At the discretion of the Purchasing Manager, bids or proposals with minor irregularities may be accepted and allowed to be corrected when in the best interest of the City.

City of Naples FL Invitation to Bid

15-047 Gulf Shore Boulevard North Median Landscaping

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City of Naples
Re-Bid Gulf Shore Boulevard Median North Landscaping ITB 15-047
PROJECT SPECIFICATIONS

PART 1 – GENERAL

1.1 SUMMARY

- A. The scope of work includes all labor, materials, appliances, tools, equipment, facilities, transportation and services necessary for, and incidental to performing all operations in connection with furnishing, delivery, and installation of plant (also known as "landscaping") complete as shown on the drawings and as specified herein.
- B. The scope of work in this section includes, but is not limited to, the following:
 - 1. Locate, purchase, deliver and install all specified plants.
 - 2. Water all specified plants.
 - 3. Mulch, fertilize, stake, and prune all specified plants.
 - 4. Maintenance of all specified plants until the beginning of the warranty period.
 - 5. Plant warranty.
 - 6. Clean up and disposal of all excess and surplus material.
 - 7. Maintenance of all specified plants during the warranty period.

1.2 AWARD OF BID

- A. City reserves the right to award the bid in a manner that best serves the interests of the City of Naples.

1.3 CONTRACT MANAGEMENT

- A. Joe Boscaglia or his authorized representative will serve as the City's Contract Manager.

1.4 CONTRACT DOCUMENTS

- A. Shall consist of specifications and general conditions and the construction drawings. The intent of these documents is to include all labor, materials, and services necessary for the proper execution of the work. The documents are to be considered as one. Whatever is called for by any parts shall be as binding as if called for in all parts.

1.5 SCHEDULING OF WORK

- A. Work will begin upon the City of Naples issuing the contractor a Notice to Proceed. The work must be completed within 60 days of the Notice to Proceed.
- B. All work will be performed Monday through Saturday, unless prior approval has been obtained from the Contract Manager.

1.6 RELATED DOCUMENTS AND REFERENCES

- A. Related Documents:
 - 1. Drawings – Landscape Architect Design Dated December 3, 2014
- B. References: The following specifications and standards of the organizations and documents listed in this paragraph form a part of the specification to the extent required by the references thereto. In the event that the requirements of the following referenced standards and specification conflict with this specification section the

requirements of this specification shall prevail. In the event that the requirements of any of the following referenced standards and specifications conflict with each other the more stringent requirement shall prevail or as determined by the City.

1. ANSI Z60.1 American Standard for Nursery Stock, most current edition.
2. ANSI A 300 – Standard Practices for Tree, Shrub and other Woody Plant Maintenance, most current edition and parts.
3. Florida Grades and Standards for Nursery Stock, current edition (Florida Department of Agriculture, Tallahassee FL).
4. Interpretation of plant names and descriptions shall reference the following documents. Where the names or plant descriptions disagree between the several documents, the most current document shall prevail.
 - a. USDA - The Germplasm Resources Information Network ([GRIN](http://www.ars-grin.gov/npgs/searchgrin.html)) <http://www.ars-grin.gov/npgs/searchgrin.html>
 - b. Manual of Woody Landscape Plants; Michael Dirr; Stipes Publishing, Champaign, Illinois; Most Current Edition.
 - c. The New Sunset Western Garden Book, Oxmoor House, most current edition.
5. Pruning practices shall conform to recommendations “Structural Pruning: A Guide For The Green Industry” most current edition; published by Urban Tree Foundation, Visalia, California.
6. Glossary of Arboricultural Terms, International Society of Arboriculture, Champaign IL, most current edition.

1.7 VERIFICATION

- A. All scaled dimensions on the drawings are approximate. Before proceeding with any work, the Contractor shall carefully check and verify all dimensions and quantities, and shall immediately inform the City of any discrepancies between the information on the drawings and the actual conditions, refraining from doing any work in said areas until given approval to do so by the City.
- B. In the case of a discrepancy in the plant quantities between the plan drawings and the plant call outs, list or plant schedule, the number of plants or square footage of the planting bed actually drawn on the plan drawings shall be deemed correct and prevail.

1.8 PAYMENT REQUESTS, INVOICES AND WORK REPORTS

- A. Invoices shall be submitted after work is completed with a detailed description of the work performed.
- B. The successful bidder(s) will meet with Contract Manager and set up procedures prior to the start of work.

1.9 RETAINAGE

- A. As a method to assure completion of the total project, retainage in the amount of twenty percent (20%) of all work completed will be withheld from the payment. The twenty percent (20%) will not be released until all work; including proper watering, weed treatment, sprout removal, and replacement of any dead plant material has been completed, inspected and accepted by the City. The retainage will be released upon completion of the warranty period.

1.10 LIQUIDATED DAMAGES

- A. Services to be rendered by the contractor shall be commenced subsequent to the execution of this Agreement upon written Notice to Proceed from the City for all or any designated portion of the Project must be completed by the contract dates

specified within the Notice to Proceed for construction. Should contractor fail to complete the project within this timeframe, daily liquidated damages in an amount of \$100.00 per day will be assessed.

1.11 PERMITS, LICENSES, AND REGULATIONS

- A. The Contractor shall obtain and pay for all permits related to this section of the work unless previously excluded under provision of the contract or general conditions. The Contractor shall comply with all laws and ordinances bearing on the operation or conduct of the work as drawn and specified. If the Contractor observes that a conflict exists between permit requirements and the work outlined in the contract documents, the Contractor shall promptly notify the City in writing including a description of any necessary changes and changes to the contract price resulting from changes in the work.
- B. Licenses may be required by the State of Florida, Collier County, or the City of Naples to perform all or part of this work. Contractors should investigate and determine if they hold the necessary license(s) prior to bid submittal. All license(s) must be active and in good standing at the time of the bid opening.

1.12 INSURANCE

- A. Successful contractor(s) shall furnish proof of insurance as per specifications.

1.13 CONDUCT

- A. The contractor and his employees will conduct themselves in such a manner as to avoid embarrassment to the City of Naples, and shall at all times be courteous to the public. Although uniforms are not required, proper clothing shall be worn at all times to include shirts, necessary safety equipment, pants, short or long, and proper footwear. Proper safety equipment shall be worn at all times.

1.14 CONTRACTOR EQUIPMENT

- A. All vehicles and equipment must be maintained in good repair, appearance and sanitary condition at all times. Vehicles must be clearly identified with the name of the company and phone number clearly visible. In addition, the contractor will be responsible for using the necessary safety equipment according to State DOT standards while working on City, County, or State roads as a sub-contractor of the City.

1.15 DISPOSAL OF DEBRIS

- A. The contractor shall dispose of all debris and other materials gathered from the described work in compliance with City and County Laws.

1.16 PROTECTION OF WORK, PROPERTY AND PERSON

- A. The Contractor shall adequately protect the work, adjacent property, and the public, and shall be responsible for any damages or injury due to his/her actions.

1.17 CHANGES IN THE WORK

- A. The City will make visits to the site at intervals appropriate to the various stages to observe the progress and quality of the executed work and determine if the work is proceeding in accordance with the Contract Documents. The City may authorize minor variations from the requirements of the Contract Documents.

1.18 CORRECTION OF WORK

- A. The Contractor, at their own cost, shall re-execute any work that fails to conform to the requirements of the contract and shall remedy defects due to faulty materials or workmanship upon written notice from the City, the Contractor has two working days of notification to remedy.

1.19 DEFINITIONS

All terms in this specification shall be as defined in the "Glossary of Arboricultural Terms" or as modified below.

- A. Container plant: Plants that are grown in and/or are currently in a container including boxed trees.
- B. Defective plant: Any plant that fails to meet the plant quality requirement of this specification.
- C. End of Warranty Final Acceptance: The date when the City accepts that the plants and work in this section meet all the requirements of the warranty. It is intended that the materials and workmanship warranty for Planting, Planting Soil, and Irrigation work run concurrent with each other.
- D. Field grown trees (B&B): Trees growing in field soil for at least 12 months prior to harvest.
- E. Healthy: Plants that are growing in a condition that expresses leaf size, crown density, color; and with annual growth rates typical of the species and cultivar's horticultural description, adjusted for the planting site soil, drainage and weather conditions.
- F. Kinked root: A root within the root package that bends more than 90 degrees.
- G. Maintenance: Actions that preserve the health of plants after installation and as defined in this specification.
- H. Maintenance period: The time period, as defined in this specification, which the Contractor is to provide maintenance.
- I. Normal: the prevailing protocol of industry standard(s).
- J. Reasonable and reasonably: When used in this specification relative to plant quality, it is intended to mean that the conditions cited will not affect the establishment or long term stability, health or growth of the plant. This specification recognizes that it is not possible to produce plants free of all defects, but that some accepted industry protocols and standards result in plants unacceptable to this project.

When reasonable or reasonably is used in relation to other issues such as weeds, diseased, insects, it shall mean at levels low enough that no treatment would be required when applying recognized Integrated Plant Management practices.

This specification recognizes that some decisions cannot be totally based on measured findings and that professional judgment is required. In cases of differing opinion, the City's expert shall determine when conditions are judged as reasonable.
- K. Root ball: The mass of roots including any soil or substrate that is shipped with the tree within the root ball package.
- L. Root ball package. The material that surrounds the root ball during shipping. The root package may include the material in which the plant was grown, or new packaging placed around the root ball for shipping.
- M. Root collar (root crown, root flare, trunk flare, flare): The region at the base of the trunk where the majority of the structural roots join the plant stem, usually at or near ground level.
- N. Shrub: Woody plants with mature height approximately less than 15 feet.
- O. Spade harvested and transplanted: Field grown trees that are mechanically harvested and immediately transplanted to the final growing site without being removed from the digging machine.

- P. Stem: The trunk of the tree.
- Q. Substantial Completion Acceptance: The date at the end of the Planting, Planting Soil, and Irrigation installation where the City accepts that all work in these sections is complete and the Warranty period has begun. This date may be different than the date of substantial completion for the other sections of the project.
- R. Stem girdling root: Any root more than ¼ inch diameter currently touching the trunk, or with the potential to touch the trunk, above the root collar approximately tangent to the trunk circumference or circling the trunk. Roots shall be considered as Stem Girdling that have, or are likely to have in the future, root to trunk bark contact.
- S. Structural root: One of the largest roots emerging from the root collar.
- T. Tree: Single and multi-stemmed plants with mature height approximately greater than 15 feet.

1.20 SUBMITTALS

- A. See contract general conditions for policy and procedure related to submittals.
- B. Submit all product submittals 7 days prior to installation of plantings.
- C. Product data: Submit manufacturer product data and literature describing all products required by this section to the Owner's Representative for approval. Provide submittal 7 days before the installation of plants.
- D. Plant growers' certificates: Submit plant growers' certificates for all plants indicating that each meets the requirements of the specification, including the requirements of tree quality, to the City for approval. Provide submittal 7 days before the installation of plants.
- E. Samples: Submit samples of each product and material where required by the specification to the City for approval. Label samples to indicate product, characteristics, and locations in the work. Samples will be reviewed for appearance only. Compliance with all other requirements is the exclusive responsibility of the Contractor.
- F. Plant sources: Submit sources of all plants as required by Article – "Selection of Plants" to the City for approval.
- G. Close out submittals: Submit to the City for approval.
 - 1. Plant maintenance data and requirements.
- H. Warranty period site visit record: If there is no maintenance during the warranty period, after each site visit during the warranty period, by the Contractor, as required by this specification, submit a written record of the visit, including any problems, potential problems, and any recommended corrective action to the City for approval.
- I. Installation plan submitted a minimum of 7 days prior to the scheduled installation. Plan should describe the methods, activities, materials and schedule to achieve installation of plants.

1.21 OBSERVATION OF THE WORK

- A. The City may observe the work at any time. They may remove samples of materials for conformity to specifications. Rejected materials shall be immediately removed from the site and replaced at the Contractor's expense. The cost of testing materials not meeting specifications shall be paid by the Contractor.
- B. The City shall be informed of the progress of the work so the work may be observed at the following key times in the construction process. The City shall be afforded sufficient time to schedule visit to the site. Failure of the City to make field

observations shall not relieve the Contractor from meeting all the requirements of this specification.

1. SITE CONDITIONS PRIOR TO THE START OF PLANTING: review the soil and drainage conditions.
2. COMPLETION OF THE PLANT LAYOUT STAKING: Review of the plant layout.
3. PLANT QUALITY: Review of plant quality at the time of delivery and prior to installation. Review tree quality prior to unloading where possible, but in all cases prior to planting.
4. COMPLETION OF THE PLANTING: Review the completed planting.

1.22 PRE-CONSTRUCTION CONFERENCE

- A. Schedule a pre-construction meeting with the City at least seven (7) days before beginning work to review any questions the Contractor may have regarding the work, administrative procedures during construction and project work schedule.

1.23 QUALITY ASSURANCE

- A. Substantial Completion Acceptance - Acceptance of the work prior to the start of the warranty period:
 1. Once the Contractor completes the installation of all items in this section, the City will observe all work for Substantial Completion Acceptance upon written request of the Contractor. The request shall be received at least ten calendar days before the anticipated date of the observation.
 2. Substantial Completion Acceptance by the City shall be for general conformance to specified size, character and quality and not relieve the Contractor of responsibility for full conformance to the contract documents, including correct species.
 3. Any plants that are deemed defective as defined under the provisions below shall not be accepted.
- B. The City will provide the Contractor with written acknowledgment of the date of Substantial Completion Acceptance and the beginning of the warranty period and plant maintenance period.
- C. Contractor's Quality Assurance Responsibilities: The Contractor is solely responsible for quality control of the work.
- D. Installer Qualifications: The installer shall be a firm having at least 5 years of successful experience of a scope similar to that required for the work, including the handling and planting of large specimen trees in urban areas. The same firm shall install planting soil (where applicable) and plant material.
 1. The bidders list for work under this section shall be approved by the City.
 2. Installer Field Supervision: When any planting work is in progress, installer shall maintain, on site, a full-time supervisor who can communicate in English with the City.
 3. Installer's field supervisor shall have a minimum of five years experience as a field supervisor installing plants and trees of the quality and scale of the proposed project, and can communicate in English with the City.
 4. The installer's crew shall have a minimum of 3 years experienced in the installation of Planting Soil, Plantings, and Irrigation (where applicable) and interpretation of soil plans, planting plans and irrigation plans.
 5. Submit references of past projects, employee training certifications that support

that the Contractors meets all of the above installer qualifications and applicable licensures.

1.24 PLANT WARRANTY

A. Plant Warranty:

1. The Contractor agrees to replace defective work and defective plants. The City shall make the final determination if plants meet these specifications or that plants are defective.

Plants warranty shall begin on the date of Substantial Completion Acceptance and continue for the following periods, classed by plant type:

- a. Trees – 1 Year
 - b. Shrubs – 1 Year
 - c. Ground cover and perennial flower plants – 1 Year
2. When the work is accepted in parts, the warranty periods shall extend from each of the partial Substantial Completion Acceptances to the terminal date of the last warranty period. Thus, all warranty periods for each class of plant warranty, shall terminate at one time.
 3. All plants shall be warrantied to meet all the requirements for plant quality at installation in this specification. Defective plants shall be defined as plants not meeting these requirements. The City shall make the final determination that plants are defective.
 4. Plants determined to be defective shall be removed immediately upon notification by the City and replaced without cost to the City, within the specified planting period.
 5. Any work required by this specification or the City during the progress of the work, to correct plant defects including the removal of roots or branches, or planting plants that have been bare rooted during installation to observe for or correct root defects shall not be considered as grounds to void any conditions of the warranty. In the event that the Contractor decides that such remediation work may compromise the future health of the plant, the plant or plants in question shall be rejected and replaced with plants that do not contain defects that require remediation or correction.
 6. The Contractor is exempt from replacing plants, after Substantial Completion Acceptance and during the warranty period, that are removed by others, lost or damaged due to occupancy of project, lost or damaged by a third party, vandalism, or any natural disaster.
 7. Replacements shall closely match adjacent specimens of the same species. Replacements shall be subject to all requirements stated in this specification. Make all necessary repairs due to plant replacements. Such repairs shall be done at no extra cost to the City
 8. The warranty of all replacement plants shall extend for an additional one-year period from the date of their acceptance after replacement. In the event that a replacement plant is not acceptable during or at the end of the said extended warranty period, the City may elect one more replacement items or credit for each item. These tertiary replacement items are not protected under a warranty period.
 9. During and by the end of the warranty period, remove all tree wrap, ties, and guying unless agreed to by the City to remain in place. All trees that do not have sufficient caliper to remain upright, or those requiring additional anchorage in windy locations, shall be staked or remain staked, if required by the City.

- B. End of Warranty Final Acceptance - Acceptance of plants at the end of the warranty period.
 - 1. At the end of the warranty period, the City shall observe all warranted work, upon written request of the Contractor. The request shall be received at least ten calendar days before the anticipated date for final observation.
 - 2. End of Warranty Final Acceptance will be given only when all the requirements of the work under this specification have been met.

1.25 SELECTION AND OBSERVATION OF PLANTS

- A. The City may review all plants subject to approval of size, health, quality, character, etc. Review or approval of any plant during the process of selection, delivery, installation and establishment period shall not prevent that plant from later rejection in the event that the plant quality changes or previously existing defects become apparent that were not observed.
- B. Plant Selection: The City reserves the right to select and observe all plants at the nursery prior to delivery and to reject plants that do not meet specifications as set forth in this specification. If a particular defect or substandard element can be corrected at the nursery, as determined by the City, the agreed upon remedy may be applied by the nursery or the Contractor provided that the correction allows the plant to meet the requirements set forth in this specification. Any work to correct plant defects shall be at the contractor's expense.
 - 1. The City may make invasive observation of the plant's root system in the area of the root collar and the top of the root ball in general in order to determine that the plant meets the quality requirements for depth of the root collar and presence of roots above the root collar. Such observations will not harm the plant.
 - 2. Corrections are to be undertaken at the nursery prior to shipping.
- C. The Contractor shall bear all cost related to plant corrections.
- D. All plants that are rejected shall be immediately removed from the site and acceptable replacement plants provided at no cost to the City.
- E. Submit to the City, for approval, plant sources including the names and locations of nurseries proposed as sources of acceptable plants, and a list of the plants they will provide. The plant list shall include the botanical and common name and the size at the time of selection. Observe all nursery materials to determine that the materials meet the requirements of this section.
- F. Trees shall be purchased from the growing nursery. Re-wholesale plant suppliers shall not be used as sources unless the Contractor can certify that the required trees are not directly available from a growing nursery. When Re-wholesale suppliers are utilized, the Contractor shall submit the name and location of the growing nursery from where the trees were obtained by the re-wholesale seller. The re-wholesale nursery shall be responsible for any required plant quality certifications.
- G. The Contractor shall require the grower or re-wholesale supplier to permit the City to observe the root system of all plants at the nursery or job site prior to planting including random removal of soil or substrate around the base of the plant. Observation may be as frequent and as extensive as needed to verify that the plants meet the requirements of the specifications and conform to requirements.
- H. Each tree shall have a numbered seal applied by the Contractor. The seal shall be placed on a lateral branch on the north side of the tree. The seal shall be a tamper proof plastic seal bearing the Contractors name and a unique seven-digit number embossed on the seal.
 - 1. Do not place seals on branches that are so large that there is not sufficient room for the branch growth over the period of the warranty.

- I. Where requested by the City, submit photographs of plants or representative samples of plants. Photographs shall be legible and clearly depict the plant specimen. Each submitted image shall contain a height reference, such as a measuring stick. The approval of plants by the City via photograph does not preclude the City's right to reject material while on site.

1.26 PLANT SUBSTITUTIONS FOR PLANTS NOT AVAILABLE

- A. Submit all requests for substitutions of plant species, or size to the City, for approval, prior to purchasing the proposed substitution. Request for substitution shall be accompanied with a list of nurseries contacted in the search for the required plant and a record of other attempts to locate the required material. Requests shall also include sources of plants found that may be of a smaller or larger size, or a different shape or habit than specified, or plants of the same genus and species but different cultivar origin, or which may otherwise not meet the requirements of the specifications, but which may be available for substitution.

1.27 SITE CONDITIONS

- A. It is the responsibility of the Contractor to be aware of all surface and sub-surface conditions, and to notify the City, in writing, of any circumstances that would negatively impact the health of plantings. Do not proceed with work until unsatisfactory conditions have been corrected.
 - 1. Should subsurface drainage or soil conditions be encountered which would be detrimental to growth or survival of plant material, the Contractor shall notify the City in writing, stating the conditions and submit a proposal covering cost of corrections. If the Contractor fails to notify the City of such conditions, he/she shall remain responsible for plant material under the warranty clause of the specifications.
- B. It is the responsibility of the Contractor to be familiar with the local growing conditions, and if any specified plants will be in conflict with these conditions. Report any potential conflicts, in writing, to the City.
- C. This specification requires that all Planting Soil and Irrigation (if applicable) work be completed and accepted prior to the installation of any plants.
 - 1. Planting operations shall not begin until such time that the irrigation system is completely operational for the area(s) to be planted, and the irrigation system for that area has been preliminarily observed and approved by the City.

1.28 PLANTING AROUND UTILITIES

- A. Contractor shall carefully examine the civil, record, and survey drawings to become familiar with the existing underground conditions before digging.
- B. Determine location of underground utilities and perform work in a manner that will avoid possible damage. Hand excavate, as required. Maintain grade stakes set by others until parties concerned mutually agree upon removal.
- C. The Contractor will be responsible for following the Florida Underground Facility Damage Prevention & Safety Act (556), OSHA Standard 1926.651, Florida Trench and Safety Act (Chapter 90-96) and obtaining utility locations by calling Sunshine State One-Call of Florida Inc. at 1-800-432-4700. Contractor shall have full responsibility for reviewing and checking all information and data for locating all underground facilities.

PART 2 – DEMOLATION

2.1 PREPARATION:

- A. Flag all trees and shrubs to be removed and obtain the City's approval of all trees and shrubs to be removed prior to the start of tree and shrub removal.

2.2 PROTECTION:

- A. Protect the Tree and Plant Protection Area at all times from compaction of the soil; damage of any kind to trunks, bark, branches, leaves and roots of all plants; and contamination of the soil, bark or leaves with construction materials, debris, silt, fuels, oils, and any chemicals substance. Notify the City of any spills, compaction or damage and take corrective action immediately using methods approved by the City.

2.3 TREE REMOVAL:

- A. Remove all trees indicated by the drawings and specifications, as requiring removal, in a manner that will not damage adjacent trees or structures or compacts the soil.
- B. Remove trees that are adjacent to trees or structures to remain, in sections, to limit the opportunity of damage to adjacent crowns, trunks, ground plane elements and structures.
- C. Do not drop trees with a single cut unless the tree will fall in an area not included in the Tree and Plant Protection Area. No tree to be removed within 50 feet of the Tree and Plant Protection Area shall be pushed over or up-rooted using a piece of grading equipment.
- D. Protect adjacent paving, soil, trees, shrubs, ground cover plantings and understory plants to remain from damage during all tree removal operations, and from construction operations. Protection shall include the root system, trunk, limbs, and crown from breakage or scarring, and the soil from compaction.
- E. Remove stumps and immediate root plate.
 - 1. A plan for the removal must be submitted and approved by the City.
 - 2. In areas where the tree location is backfill stump holes with planting soil, in maximum of 12 inch layers and compact to 80 - 85% of the maximum dry density standard proctor.

2.4 CLEAN-UP

- A. During tree and plant protection work, keep the site free of trash, pavements reasonably clean and work area in an orderly condition at the end of each day. Remove trash and debris in containers from the site no less than once a week.
 - 1. Immediately clean up any spilled or tracked soil, fuel, oil, trash or debris deposited by the Contractor from all surfaces within the project or on public right of ways and neighboring property.
- B. Once tree protection work is complete, wash all soil from pavements and other structures. Ensure that Mulch is confined to planting beds.
- C. Make all repairs to grades, ruts, and damage to the work or other work at the site.
- D. Remove and dispose of all excess Mulch, Wood Chips, packaging, and other material brought to the site by the Contractor.

2.5 DAMAGE OR LOSS TO EXISTING PLANTS TO REMAIN

- A. Any trees or plants designated to remain and which are damaged by the Contractor shall be replaced in kind by the Contractor at their own expense. Trees shall be replaced with a tree of similar species and of equal size. Shrubs shall be replaced with a plant of similar species and equal size or the largest size plants reasonably available. Where replacement plants are to be less than the size of the plant that is damaged, the City shall approve the size and quality of the replacement plant.
 - 1. All trees and plants shall be installed per the requirements of Specification Section Planting.

- B. Plants that are damaged shall be considered as requiring replacement aisa in the event that the damage affects more than 25 % of the crown, 25% of the trunk circumference, or root protection area, or the tree is damaged in such a manner that the tree could develop into a potential hazard. Trees and shrubs to be replaced shall be removed by the Contractor at his own expense.
- C. Any tree that is determined to be dead, damaged or potentially hazardous by the City's arborist and upon the request of the City shall be immediately removed by the Contractor at no additional expense to the owner. Tree removal shall include all clean up of all wood parts and grinding of the stump to a depth sufficient to plant the replacement tree or plant, removal of all chips from the stump site and filling the resulting hole with topsoil.
- D. Any remedial work on damaged existing plants recommended by the arborist shall be completed by the Contractor at no cost to the owner. Remedial work shall include but is not limited to: soil compaction remediation and vertical mulching, pruning and or cabling, insect and disease control including injections, compensatory watering, additional mulching, and could include application tree growth regulators (TGR).
- E. Remedial work may extend up to two years following the completion of construction to allow for any requirements of multiple applications or the need to undertake applications at required seasons of the year.

PART 3 – PRODUCTS

3.1 PLANTS: GENERAL

- A. Standards and measurement: Provide plants of quantity, size, genus, species, and variety or cultivars as shown and scheduled in contract documents.
 - 1. All plants including the root ball dimensions or container size to trunk caliper ratio shall conform to ANSI Z60.1 "American Standard for Nursery Stock" latest edition, unless modified by provisions in this specification. When there is a conflict between this specification and ANSI Z60.1, this specification section shall be considered correct.
 - 2. Plants larger than specified may be used if acceptable to the City. Use of such plants shall not increase the contract price. If larger plants are accepted the root ball size shall be in accordance with ANSI Z-60.1. Larger plants may not be acceptable if the resulting root ball cannot be fit into the required planting space.
 - 3. If a range of size is given, no plant shall be less than the minimum size and not less than 50 percent of the plants shall be as large as the maximum size specified. The measurements specified are the minimum and maximum size acceptable and are the measurements after pruning, where pruning is required.
- B. Proper Identification: All trees shall be true to name as ordered or shown on planting plans and shall be labeled individually or in groups by genus, species, variety and cultivar.
- C. Compliance: All trees shall comply with federal and state laws and regulations requiring observation for plant disease, pests, and weeds. Observation certificates required by law shall accompany each shipment of plants.
- D. Plant Quality:
 - 1. **General:** Provide healthy stock, grown in a nursery and reasonably free of die-back, disease, insects, eggs, bores, and larvae. At the time of planting all plants shall have a root system, stem, and branch form that will not restrict normal growth, stability and health for the expected life of the plant
 - 2. **Plant quality above the soil line:**
 - a. Plants shall be healthy with the color, shape, size and distribution of trunk,

stems, branches, buds and leaves normal to the plant type specified. Tree quality above the soil line shall comply with the project Crown Acceptance details (or Florida Grades and Standards, tree grade Florida Fancy or Florida #1) and the following:

- 1.) Crown: The form and density of the crown shall be typical for a young specimen of the species or cultivar pruned to a central and dominant leader.
 - a.) Crown specifications do not apply to plants that have been specifically trained in the nursery as topiary, espalier, multi-stem, clump, or unique selections such as contorted or weeping cultivars.
 - 2.) Leaves: The size, color, and appearance of leaves shall be typical for the time of year and stage of growth of the species or cultivar. Trees shall not show signs of prolonged moisture stress or over watering as indicated by wilted, shriveled, or dead leaves.
 - 3.) Branches: Shoot growth (length and diameter) throughout the crown should be appropriate for the age and size of the species or cultivar. Trees shall not have dead, diseased, broken, distorted, or otherwise injured branches.
 - a.) Main branches shall be distributed along the central leader not clustered together. They shall form a balanced crown appropriate for the cultivar/species.
 - b.) Branch diameter shall be no larger than two-thirds (one-half is preferred) the diameter of the central leader measured 1 inch above the branch union.
 - c.) The attachment of the largest branches (scaffold branches) shall be free of included bark.
 - 4.) Trunk: The tree trunk shall be relatively straight, vertical, and free of wounds that penetrate to the wood (properly made pruning cuts, closed or not, are acceptable and are not considered wounds), sunburned areas, conks (fungal fruiting bodies), wood cracks, sap leakage, signs of boring insects, galls, cankers, girdling ties, or lesions (mechanical injury).
 - 5.) Temporary branches, unless otherwise specified, can be present along the lower trunk below the lowest main (scaffold) branch, particularly for trees less than 1 inch in caliper. These branches should be no greater than 3/8-inch diameter. Clear trunk should be no more than 40% of the total height of the tree.
- b. Trees shall have one central leader. If the leader was headed, a new leader (with a live terminal bud) at least one-half the diameter of the pruning cut shall be present.
 - 1.) All trees are assumed to have one central leader trees unless a different form is specified in the plant list or drawings.
 - c. All graft unions, where applicable, shall be completely closed without visible sign of graft rejection. All grafts shall be visible above the soil line.
 - d. Trunk caliper and taper shall be sufficient so that the lower five feet of the trunk remains vertical without a stake. Auxiliary stake may be used to maintain a straight leader in the upper half of the tree.
- 3. Plant quality at or below the soil line:**
- a. Plant roots shall be normal to the plant type specified. Root observations shall take place without impacting tree health. Root quality at or below the soil line shall comply with the project Root Acceptance details and the following:
 - 1.) The roots shall be reasonably free of scrapes, broken or split wood.
 - 2.) The root system shall be reasonably free of injury from biotic (e.g., insects and pathogens) and abiotic (e.g., herbicide toxicity and salt injury) agents. Wounds resulting from root pruning used to produce a

high quality root system are not considered injuries.

- 3.) A minimum of three structural roots reasonably distributed around the trunk (not clustered on one side) shall be found in each plant. Root distribution shall be uniform throughout the root ball, and growth shall be appropriate for the species.
 - a.) Plants with structural roots on only one side of the trunk (J roots) shall be rejected.
- 4.) The root collar shall be within the upper 2 inches of the substrate/soil. Two structural roots shall reach the side of the root ball near the top surface of the root ball. The grower may request a modification to this requirement for species with roots that rapidly descend, provided that the grower removes all stem girdling roots above the structural roots across the top of the root ball.
- 5.) The root system shall be reasonably free of stem girdling roots over the root collar or kinked roots from nursery production practices.
 - a.) Plant Grower Certification: The final plant grower shall be responsible to have determined that the plants have been root pruned at each step in the plant production process to remove stem girdling roots and kinked roots, or that the previous production system used practices that produce a root system throughout the root ball that meets these specifications. Regardless of the work of previous growers, the plant's root system shall be modified at the final production stage, if needed, to produce the required plant root quality.
- 6.) At time of observations and delivery, the root ball shall be moist throughout. Roots shall not show signs of excess soil moisture conditions as indicated by stunted, discolored, distorted, or dead roots.

E. Submittals: Submit for approval the required plant quality certifications from the grower where plants are to be purchased, for each plant type. The certification must state that each plant meets all the above plant quality requirements.

1. The grower's certification of plant quality does not prohibit the City from observing any plant or rejecting the plant if it is found to not meet the specification requirements.

3.2 ROOT BALL PACKAGE OPTIONS: The following root ball packages are permitted. Specific root ball packages shall be required where indicated on the plant list or in this specification. Any type of root ball packages that is not specifically defined in this specification shall not be permitted.

A. BALLED AND BURLAPPED PLANTS

1. **All Balled and Burlapped Plants shall be field grown, and the root ball packaged in a burlap and twine and/or burlap and wire basket package.**
2. **Plants shall be harvested with the following modifications to standard nursery practices.**

a. Prior to digging any tree that fails to meet the requirement for maximum soil and roots above the root collar, carefully removed the soil from the top of the root ball of each plant, using hand tools, water or an air spade, to locate the root collar and attain the soil depth over the structural roots requirements. Remove all stem girdling roots above the root collar. Care must be exercised not to damage the surface of the root collar and the top of the structural roots.

- b. Trees shall be dug for a minimum of 4 weeks and a maximum of 52 weeks prior to shipping. Trees dug 4 to 52 weeks prior to shipping are defined as hardened-off. Digging is defined as cutting all roots and lifting the tree out of

the ground and either moving it to a new location in the nursery or placing it back into the same hole. Tress that are stored out of the ground shall be placed in a holding area protected from extremes of wind and sun with the root ball protected by covering with mulch or straw and irrigated sufficiently to keep moisture in the root ball above wilt point and below saturation

c. If wire baskets are used to support the root ball, a “low profile” basket shall be used. A low profile basket is defined as having the top of the highest loops on the basket no less than 4 inches and no greater than 8 inches below the shoulder of the root ball package.

1.) At nurseries where sandy soils prevent the use of “low profile baskets”, baskets that support the entire root ball, including the top, are allowable.

d. Twine and burlap used for wrapping the root ball package shall be natural, biodegradable material. If the burlap decomposes after digging the tree then the root ball shall be re-wrapped prior to shipping if roots have not yet grown to keep root ball intact during shipping.

B. IN-GROUND FABRIC BAG-GROWN

1. In-ground fabric container plants may be permitted only when indicated on the drawing, in this specification, or approved by the City.
2. Provide plants established and well rooted.

3.3 ANNUAL FLOWERING AND SEASONAL COLOR PLANTS

- A. Container or flat-grown plants should be sized as noted in the planting plan. Plants shall be well-rooted and healthy.

3.4 PALMS

- A. Except as modified below or where the requirements are not appropriate to the specification of palms, palms shall meet all the requirements of the plant quality section above.
- B. Defronding, tying, and hedging:
1. In preparing palm trees for relocation, all dead fronds shall be removed.
 2. All remaining fronds above horizontal shall be lifted up and tied together around the crown in an upright position. Up to 2/3 of the oldest live fronds can be removed; all fronds can be removed on Sabal palms. Do not tie too tightly, bind or injure the bud. Jute binder twine shall be used in tying up the fronds; wire will not be permitted. Fronds shall be untied immediately after planting.
- C. Digging the root ball:
1. When digging out the root ball, no excavation shall be done closer than 24 Inches to the trunk at ground level and the excavation shall extend below the major root system to a minimum depth of 3.5 feet. The bottom of the root ball shall be cut off square and perpendicular to the trunk below the major root system.
- D. The Contractor shall not free-fall, drag, roll or abuse the tree or put a strain on the crown (bud area) at any time. A protective device shall be used around the trunk of the tree while lifting and relocating so as not to injure the bud, or scar or skin the trunk in any way.

3.5 MULCH

- A. Mulch shall brown.
- B. Submit supplier's product specification data sheet and a one gallon sample for approval.

3.6 TREE STAKING AND GUYING MATERIAL

- A. Tree guying to be flat woven polypropylene material, 3/4 inch wide, and 900 lb. break strength. Color to be Green. Product to be ArborTie manufactured by Deep Root Partners, L.P. or approved equal.
- B. Stakes shall be lodge pole stakes free of knots and of diameters and lengths appropriate to the size of plant as required to adequately support the plant.

3.7 WATERING BAGS

Plastic tree watering bags holding a minimum of 15 gallons of water and with a slow drip hole(s) water release system, specifically designed to water establishing trees. Water should release over a several day period, not within a few hours

- A. Watering bags shall be:
 - 1. Treegator Irrigation Bags sized to the appropriate model for the requirements of the plant, manufactured by Spectrum Products, Inc., Youngsville, NC 27596.
 - 2. Ooze Tube sized to the appropriate model for the requirements of the plant, manufactured by Engineered Water Solutions, Atlanta, GA.
 - 3. Or approved equal.

PART 4 – EXECUTION

4.1 DELIVERY, STORAGE AND HANDLING

- A. Protect materials from deterioration during delivery and storage. Adequately protect plants from drying out, exposure of roots to sun, wind or extremes of heat temperatures. If planting is delayed more than 24 hours after delivery, set plants in a location protected from sun and wind. Provide adequate water to the root ball package during the shipping and storage period.
 - 1. All plant materials must be available for observation prior to planting.
 - 2. Using a soil moisture meter, periodically check the soil moisture in the root balls of all plants to assure that the plants are being adequately watered. Volumetric soil moisture shall be maintained above wilting point and below field capacity for the root ball substrate or soil.
- B. Do not deliver more plants to the site than there is space with adequate storage conditions. Provide a suitable remote staging area for plants and other supplies.
- C. Provide protective covering over all plants during transporting.

4.2 COORDINATION WITH PROJECT WORK

- A. The Contractor shall coordinate with all other work that may impact the completion of the work.
- B. Prior to the start of work, prepare a detailed schedule of the work for coordination with other trades.
- C. Coordinate the relocation of any irrigation lines, heads or the conduits of other utility lines that are in conflict with tree locations. Root balls shall not be altered to fit around lines. Notify the City of any conflicts encountered.

4.3 LAYOUT AND PLANTING SEQUENCE

- A. Relative positions of all plants and trees are subject to approval of the City.
- B. Notify the City, one (1) week prior to layout. Layout all individual tree and shrub locations. Place plants above surface at planting location or place a labeled stake at planting location. Layout bed lines with paint for the City's approval. Secure the City's acceptance before digging and start of planting work.

- C. When applicable, plant trees before other plants are installed.
- D. It is understood that plants are not precise objects and that minor adjustments in the layout will be required as the planting plan is constructed. These adjustments may not be apparent until some or all of the plants are installed. Make adjustments as required by the City including relocating previously installed plants.

4.4 SOIL PROTECTION DURING PLANT DELIVERY AND INSTALLATION

- A. Protect soil from compaction during the delivery of plants to the planting locations, digging of planting holes and installing plants.
 - 1. Where possible deliver and plant trees that require the use of heavy mechanized equipment prior to final soil preparation and tilling. Where possible, restrict the driving lanes to one area instead of driving over and compacting a large area of soil.
 - 2. Till to a depth of 6 inches, all soil that has been driven over during the installation of plants.

4.5 INSTALLATION OF PLANTS: GENERAL

- A. Installation plan shall be submitted a minimum of 7 days prior to the scheduled installation. Plan should describe the methods, activities, materials and schedule to achieve installation of plants.
- B. Observe each plant after delivery and prior to installation for damage of other characteristics that may cause rejection of the plant. Notify the City of any condition observed.
- C. No more plants shall be distributed about the planting bed area than can be planted and watered on the same day.
- D. The root system of each plant, regardless of root ball package type, shall be observed by the Contractor, at the time of planting to confirm that the roots meet the requirements for plant root quality in Part 2 Products: Plants General: Plant Quality. The Contractor shall undertake at the time of planting, all modifications to the root system required by the City to meet these quality standards.
 - 1. Modifications, at the time of planting, to meet the specifications for the depth of the root collar and removal of stem girdling roots and circling roots may make the plant unstable or stress the plant to the point that the City may choose to reject the plant rather than permitting the modification.
 - 2. Any modifications required by the City to make the root system conform to the plant quality standards outlined in Part 2 Products: Plants General: Quality, or other requirements related to the permitted root ball package, shall not be considered as grounds to modify or void the plant warranty.
 - 3. The resulting root ball may need additional staking and water after planting. The City may reject the plant if the root modification process makes the tree unstable or if the tree is not healthy at the end of the warranty period. Such plants shall still be covered under the warranty
 - 4. The Contractor remains responsible to confirm that the grower has made all required root modifications noted during any nursery observations.
- E. Excavation of the Planting Space: Using hand tools or tracked mini-excavator, excavate the planting hole into the Planting Soil to the depth of the root ball measured after any root ball modification to correct root problems, and wide enough for working room around the root ball or to the size indicated on the drawing or as noted below.
 - 1. For trees and shrubs planted in soil areas that are NOT tilled or otherwise

modified to a depth of at least 12 inches over a distance of more than 10 feet radius from each tree, or 5 feet radius from each shrub, the soil around the root ball shall be loosened as defined below or as indicated on the drawings.

- a. The area of loosening shall be a minimum of 3 times the diameter of the root ball at the surface sloping to 2 times the diameter of the root ball at the depth of the root ball.
 - b. Loosening is defined as digging into the soil and turning the soil to reduce the compaction. The soil does not have to be removed from the hole, just dug, lifted and turned. Lifting and turning may be accomplished with a tracked mini excavator, or hand shovels.
2. The measuring point for root ball depth shall be the average height of the outer edge of the root ball after any required root ball modification.
 3. If motorized equipment is used to deliver plants to the planting area over exposed planting beds, or used to loosen the soil or dig the planting holes, all soil that has been driven over shall be tilled to a depth of 6 inches.
- F. For trees to be planted in prepared Planting Soil that is deeper than the root ball depth, compact the soil under the root ball using a mechanical tamper to assure a firm bedding for the root ball. If there is more than 12 inches of planting soil under the root ball excavate and tamp the planting soil in lifts not to exceed 12 inches.
- G. Set top outer edge of the root ball at the average elevation of the proposed finish. Set the plant plumb and upright in the center of the planting hole. The tree graft, if applicable, shall be visible above the grade. Do not place soil on top of the root ball.
- H. The City may request that plants orientation be rotated when planted based on the form of the plant.
- I. Backfill the space around the root ball with the same planting soil or existing soil that was excavated for the planting space.
- J. Brace root ball by tamping Planting Soil around the lower portion of the root ball. Place additional Planting Soil around base and sides of ball in six-inch (6") lifts. Lightly tamp each lift using foot pressure or hand tools to settle backfill, support the tree and eliminate voids. DO NOT over compact the backfill or use mechanical or pneumatic tamping equipment. Over compaction shall be defined as greater than 85% of maximum dry density, standard proctor or greater than 250 psi as measured by a cone penetrometer when the volumetric soil moisture is lower than field capacity.
1. When the planting hole has been backfilled to three quarters of its depth, water shall be poured around the root ball and allowed to soak into the soil to settle the soil. Do not flood the planting space. If the soil is above field capacity, allow the soil to drain to below field capacity before finishing the planting. Air pockets shall be eliminated and backfill continued until the planting soil is brought to grade level.
- K. Where indicated on the drawings, build a 4 inch high, level berm of Planting Soil around the outside of the root ball to retain water. Tamp the berm to reduce leaking and erosion of the saucer.
- L. Thoroughly water the Planting Soil and root ball immediately after planting.
- M. Remove all nursery plant identification tags and ribbons as per City instruction.

4.6 PERMITTED ROOT BALL PACKAGES AND SPECIAL PLANTING REQUIREMENTS

- A. The following are permitted root ball packages and special planting requirements that shall be followed during the planting process in addition to the above General planting requirements.

B. BALLED AND BURLAPPED PLANTS

1. After the root ball has been backfilled, remove all twine and burlap from the top of the root ball. Cut the burlap away; do not fold down onto the Planting Soil.
2. If the plant is shipped with a wire basket that does not meet the requirements of a "Low Rise" basket, remove the top 6 - 8 inches of the basket wires just before the final backfilling of the tree.
3. Earth root balls shall be kept intact except for any modifications required by the Owner's Representative to make root package comply with the requirement in Part 2 Products.

C. SPADE HARVESTED AND TRANSPLANTED PLANTS

1. After installing the tree, loosen the soil along the seam between the root ball and the surrounding soil out to a radius from the root ball edge equal to the diameter of the root ball to a depth of 8 - 10 inches by hand digging to disturb the soil interface.
2. Fill any gaps below this level with loose soil.

D. IN-GROUND FABRIC CONTAINERS

1. Remove the fabric container from the root ball. Cut roots at the edge of the container as needed to extract the fabric from the roots. Make clean cuts with sharp tools; do not tear roots away from the fabric.
2. Observe the root system after the container is removed to confirm that the root system meets the quality standards.

4.7 GROUND COVER, PERENNIAL AND ANNUAL PLANTS

- A. Assure that soil moisture is within the required levels prior to planting. Irrigation, if required, shall be applied at least 12 hours prior to planting to avoid planting in muddy soils.
- B. Assure that soil grades in the beds are smooth and as shown on the plans.
- C. Plants shall be planted in even, triangularly spaced rows, at the intervals called out for on the drawings, unless otherwise noted. The first row of plants shall be 6 inches from the bed edge unless otherwise directed.
- D. Dig planting holes sufficiently large enough to insert the root system without deforming the roots. Set the top of the root system at the grade of the soil.
- E. Schedule the planting to occur prior to application of the mulch. If the bed is already mulched, pull the mulch from around the hole and plant into the soil. Do not plant the root system in the mulch. Pull mulch back so it is not on the root ball surface.
- F. Press soil to bring the root system in contact with the soil.
- G. Spread any excess soil around in the spaces between plants.
- H. Apply mulch to the bed being sure not to cover the tops of the plants with or the tops of the root ball with mulch.
- I. Water each planting area as soon as the planting is completed. Apply additional water to keep the soil moisture at the required levels. Do not over water.

4.8 PALM PLANTING

- A. Palm trees shall be placed at grade making sure not to plant the tree any deeper in the ground than the palm trees originally stood.
- B. The trees shall be placed with their vertical axis in a plumb position.
- C. All backfill shall be native soil except in cases where planting in rock. Water-settle the

back fill.

- D. Do not cover root ball with mulch or topsoil.
- E. Provide a watering berm at each palm. Berms shall extend a minimum of 18 inches out from the trunk all around and shall be a minimum of (6) inches high.
- F. Remove twine which ties fronds together after placing palm in planting hole and securing it in the upright position.

4.9 STAKING AND GUYING

- A. Do not stake or guy trees unless specifically required by the Contract Documents, or in the event that the Contractor feels that staking is the only alternative way to keep particular trees plumb.
 - 1. The City shall have the authority to require that trees are staked or to reject staking as an alternative way to stabilize the tree.
 - 2. Trees that required heavily modified root balls to meet the root quality standards may become unstable. The City may choose to reject these trees rather than utilize staking to temporarily support the tree.
- B. Trees that are guyed shall have their guys and stakes removed after one full growing season or at other times as required by the City.
- C. Tree guying shall utilize the tree staking and guying materials specified. Guying to be tied in such a manner as to create a minimum 12-inch loop to prevent girdling. Refer to manufacturer's recommendations and the planting detail for installation.
 - 1. Plants shall stand plumb after staking or guying.
 - 2. Stakes shall be driven to sufficient depth to hold the tree rigid.

4.10 STRAIGHTENING PLANTS

- A. Maintain all plants in a plumb position throughout the warranty period. Straighten all trees that move out of plumb including those not staked. Plants to be straightened shall be excavated and the root ball moved to a plumb position, and then re-backfilled.
- B. Do not straighten plants by pulling the trunk with guys.

4.11 MULCHING OF PLANTS

- A. Apply 1-1 ½ inches of mulch before settlement, covering the entire planting bed area. Install no mulch over the top of the root balls of all plants.
- B. For trees planted in lawn areas the mulch shall extend to a 5 foot radius around the tree or to the extent indicated on the plans. Mulch shall not be placed within 18 inches of any tree or palm trunk.
- C. Lift all leaves, low hanging stems and other green portions of small plants out of the mulch if covered.

4.12 PLANTING BED FINISHING

- A. After planting, smooth out all grades between plants before mulching.
- B. Separate the edges of planting beds and lawn areas with a smooth, formed edge cut into the turf with the bed mulch level slightly lower, 1 and 2 inches, than the adjacent turf sod or as directed by the City. Bed edge lines shall be as depicted on the drawings.

4.13 WATERING

- A. The Contractor shall be fully responsible to ensure that adequate water is provided to all plants from the point of installation until the date of Substantial Completion

Acceptance. The Contractor shall adjust the automatic irrigation system, if available, and apply additional or adjust for less water using hoses as required.

- B. Hand water root balls of all plants to assure that the root balls have moisture above wilt point and below field capacity. Test the moisture content in each root ball and the soil outside the root ball to determine the water content.
- C. The Contractor shall install 25 gallon watering bag for each tree to be maintained and used for tree watering during the warranty period.
 - 1. The watering bags shall remain the property of the Owner at the completion of the work.

4.14 CLEAN-UP

- A. During installation, keep the site free of trash, pavements reasonably clean and work area in an orderly condition at the end of each day. Remove trash and debris in containers from the site no less than once a week.
 - 1. Immediately clean up any spilled or tracked soil, fuel, oil, trash or debris deposited by the Contractor from all surfaces within the project or on public right of ways and neighboring property.
- B. Once installation is complete, wash all soil from pavements and other structures. Ensure that mulch is confined to planting beds and that all tags and flagging tape are removed from the site.
- C. Make all repairs to grades, ruts, and damage by the plant installer to the work or other work at the site.
- D. Remove and dispose of all excess planting soil, subsoil, mulch, plants, packaging, and other material brought to the site by the Contractor.

4.15 PROTECTION DURING CONSTRUCTION

- A. The Contractor shall protect planting and related work and other site work from damage due to planting operations, operations by other Contractors or trespassers. Maintain protection during installation until Substantial Completion Acceptance. Treat, repair or replace damaged work immediately.
- B. Damage done by the Contractor, or any of their sub-contractors to existing or installed plants, or any other parts of the work or existing features to remain, including roots, trunk or branches of large existing trees, soil, paving, utilities, lighting, irrigation, other finished work and surfaces including those on adjacent property, shall be cleaned, repaired or replaced by the Contractor at no expense to the City. The City shall determine when such cleaning, replacement or repair is satisfactory.

4.16 PLANT MAINTENANCE PRIOR TO SUBSTANTIAL COMPLETION ACCEPTANCE

- A. During the project work period and prior to Substantial Completion Acceptance, the Contractor shall maintain all plants.
- B. Maintenance during the period prior to Substantial Completion Acceptance shall consist of pruning, watering, cultivating, weeding, mulching, removal of dead material, repairing and replacing of tree stakes, tightening and repairing of guys, repairing and replacing of damaged tree wrap material, resetting plants to proper grades and upright position, and furnishing and applying such sprays as are necessary to keep plantings reasonably free of damaging insects and disease, and in healthy condition. The threshold for applying insecticides and herbicide shall follow established Integrated Pest Management (IPM) procedures. Mulch areas shall be kept reasonably free of weeds, grass.

4.17 SUBSTANTIAL COMPLETION ACCEPTANCE

- A. Upon written notice from the Contractor, the Owners Representative shall review the

work and make a determination if the work is substantially complete.

1. Notification shall be at least 7 days prior to the date the contractor is requesting the review.
- B. The date of substantial completion of the planting shall be the date when the Owner's Representative accepts that all work in Planting, Planting Soil, and Irrigation installation sections is complete.
- C. The Plant Warranty period begins at date of written notification of substantial completion from the Owner's Representative. The date of substantial completion may be different than the date of substantial completion for the other sections of the project.

4.18 END OF WARRANTY FINAL ACCEPTANCE / MAINTENANCE OBSERVATION

- A. At the end of the Warranty and Maintenance period the City shall observe the work and establish that all provisions of the contract are complete and the work is satisfactory.
 1. If the work is satisfactory, the maintenance period will end on the date of the final observation.
 2. If the work is deemed unsatisfactory, the maintenance period will continue at no additional expense to the City until the work has been completed, observed, and approved by the City.

Attachment A – Cost Schedule

Gulf Shore Boulevard North Median Landscape Renovation Plans

Common Name	Botanical Name	Specification	Qty	Unit	Total
Palms					
Alexander palm, single	Ptychosperma elegans	25 gallon, 10' -12' ht, single	59		\$ -
Pygmy date palm	Phoenix roebelinii	25 gallon, 5' ht, triple	23		\$ -
Royal palm	Roystonea regia	3'-4' GW, 12'-15' ht, FG	111		\$ -
Foxtail palm	Wodyetia bifurcata	12'-14' ht, full, FG	37		\$ -
			Subtotal, Palms		\$ -
Trees					
Black olive	Bucida buceras 'Shady Lady'	25 gallon, 10'-12' ht, full	4		\$ -
Silver buttonwood tree	Conocarpus erectus 'sericeus'	25 gallon, 6'-8' ht, full	7		\$ -
Dahoon holly	Ilex cassine	25 gallon, 6' ht, full	20		\$ -
Ligustrum tree	Ligustrum japonica	6'x6',multi, FG	23		\$ -
			Subtotal, Trees		\$ -
Shrubs					
Bush allamanda	Allamanda schottii	3 gallon, 12"-18"ht, full, 36" oc	87		\$ -
Hawaiian torch	Bougainvillea 'Hawaiian Torch'	3 gallon, 18"-24" ht, full, 48" oc	36		\$ -
Small leaf clusia	Clusia guttifera	3 gallon, 18" ht, full, 36" oc	17		\$ -
Mammey croton	Croton 'Mammey'	3 gallon, 18"ht, full, 30" oc	193		\$ -
Petra croton	Croton 'Petra'	3 gallon, 18"-24" ht, full, 36" oc	150		\$ -
Muhly grass	Muhlenbergia cappalaris	3 gallon, 18" ht, full, 36" oc	224		\$ -
Xanadu philodendron	Philodendron 'Xanadu'	3 gallon, 18" ht, full, 36" oc	45		\$ -
Trinette	Schefflera arboricola 'Trinette'	3 gallon, 18"ht, full, 36" oc	213		\$ -
Bird of paradise	Strelitzia reginae	3 gallon, 24" ht, full, 48" oc	146		\$ -
			Subtotal, Shrubs		\$ -
Bromeliads					
Bromeliad A	Neoregelia 'Fireball'	6" pots, full	613		\$ -
Bromeliad B	Neoregelia 'BossaNova'	9" pots, full	67		\$ -
Bromeliad C	Alcanterea odorata	9" pots, full	26		\$ -
Bromeliad D	Neoregelia 'Sunshine'	6" pots, full	126		\$ -
Bromeliad E	Neoregelia 'Tossed Salad'	6" pots, full	111		\$ -
Bromeliad F	Aechmea 'Alvarez'	6" pots, full	18		\$ -
			Subtotal, Bromeliads:		\$ -

Groundcovers					
Dwarf bougainvillea	Bougainvillea 'Helen Johnson'	3 gallon, full, 36" oc	847		\$ -
Emerald blanket	Carissa macrocarpa 'Emerald Blanket'	3 gallon, full, 36" oc	943		\$ -
Flax lily	Dianella tasmanica 'variegata'	1 gallon, full, 24" oc	57		\$ -
Green island ficus	Ficus microcarpa 'Green Island'	3 gallon, full, 36" oc	780		\$ -
Shore juniper	Juniperus conferta 'Blue Pacific'	1 gallon, full, 36" oc	1781		\$ -
Asiatic jasmine	Trachelospermum asiaticum	1 gallon, full, 30" oc	1967		\$ -
				Subtotal, Groundcovers:	\$ -
Sod					
Sod	Stenotaphrum secundatum 'Floratum'	solid sod, tightly butted, rolled (SF)	24765		\$ -
				Subtotal, Sod:	\$ -
Pavers					
Pavers	As specified	See specs (SF)	6395		\$ -
Site prep	Remove exstg pavement/conc	See specs (SF)	300		\$ -
				Subtotal, Pavers:	\$ -
Site Preparation					
Hardwood removal	less than 10" dbh	incl stump removal and backfill (ea)	20		\$ -
Hardwood removal	11"-20" dbh	incl stump removal and backfill (ea)	57		\$ -
Hardwood removal	21"-36" dbh	incl stump removal and backfill (ea)	8		\$ -
Palm removal	11"-20" dbh	incl stump removal and backfill (ea)	406		\$ -
Median bed and sod prep	Remove all exstg plants, roots, debris etc except existing to remain (SF)		105825		\$ -
				Subtotal, Site Preparation:	\$ -
General Conditions					
Maintenance of traffic	Per City standards		1		\$ -
				Subtotal, General Conditions:	\$ -
				Landscape bid total:	\$ -
Miscellaneous Hourly Rate			1		\$ -

NOTE: UNIT AND TOTAL COST INCLUDE ALL LABOR, MATERIALS, APPLIANCES, TOOLS, EQUIPMENT, FACILITIES, TRANSPORTATION AND SERVICES NECESSARY FOR, AND INCIDENTAL TO PERFORMING ALL OPERATIONS, NECESSARY FOR THIS PROJECT

Company Name _____ PH _____

Email _____

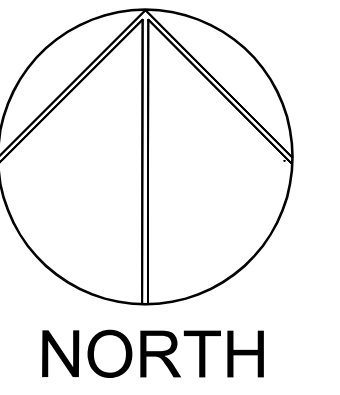
Name and Title of individual completing this schedule:

(Printed Name) (Title)

(Signature) (Date)

MATCH LINE

VIA MIRAMAR



Medians 1-3, Planting Plan

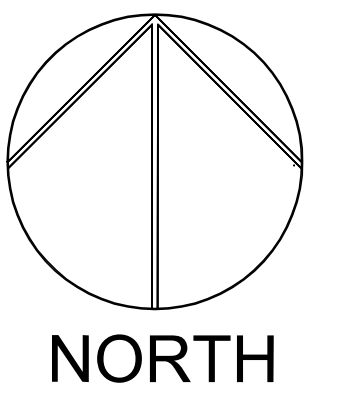
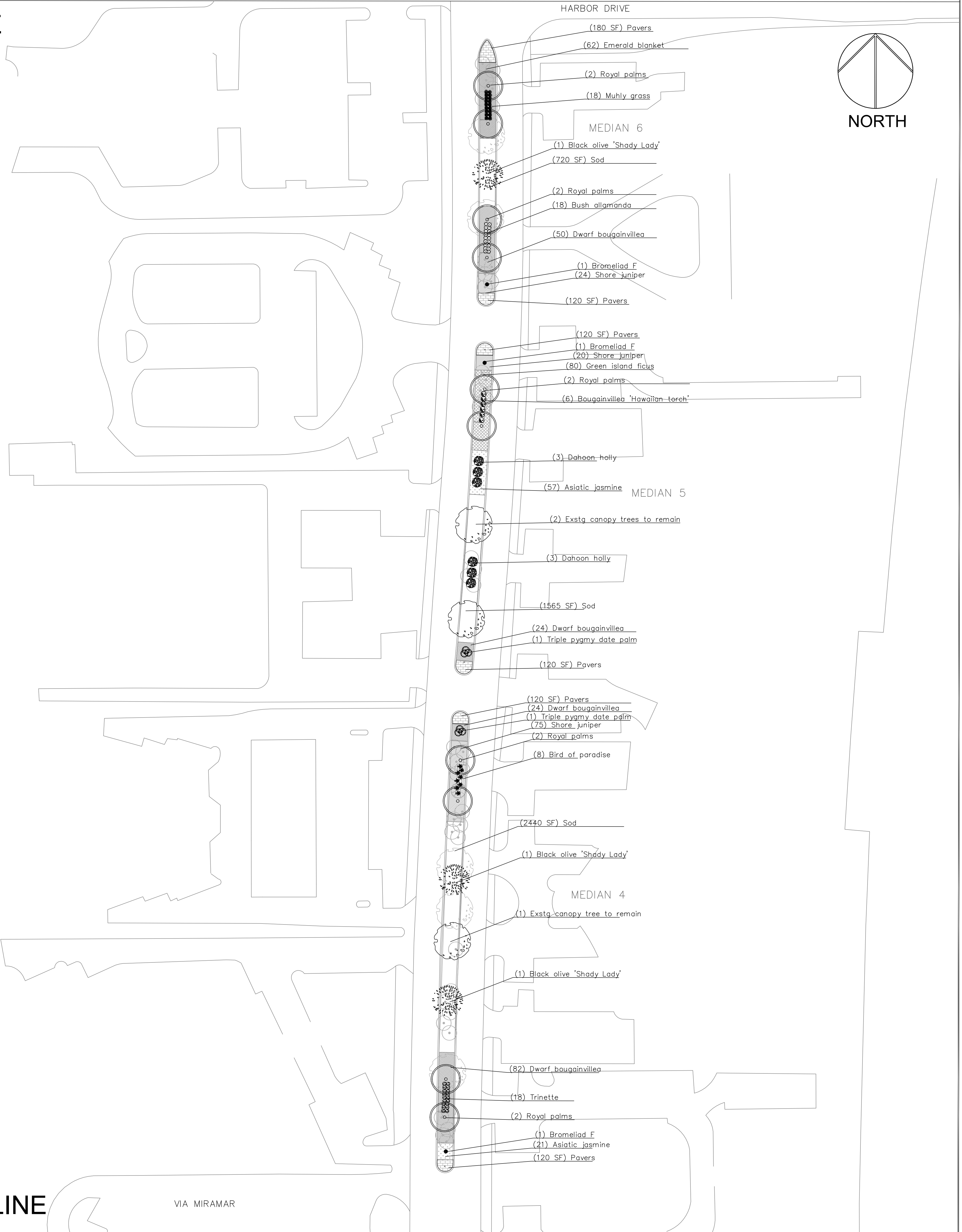
A. GAIL BOORMAN
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 NAPLES, FLORIDA 34102
 (239) 263-2242
 EMAIL: BOORMAN@COMCAST.NET

Median Landscape Renovation
 Gulf Shore Boulevard North
 City of Naples, Florida

REVISIONS	BY

DRAWN AGB
CHECKED AGB
DATE 12/31/2014
SCALE 1" = 40'
JOB NO. GSRN
ACAD NO. GSRN_bpsa2
SHEET LA-1

MATCH LINE



MATCH LINE

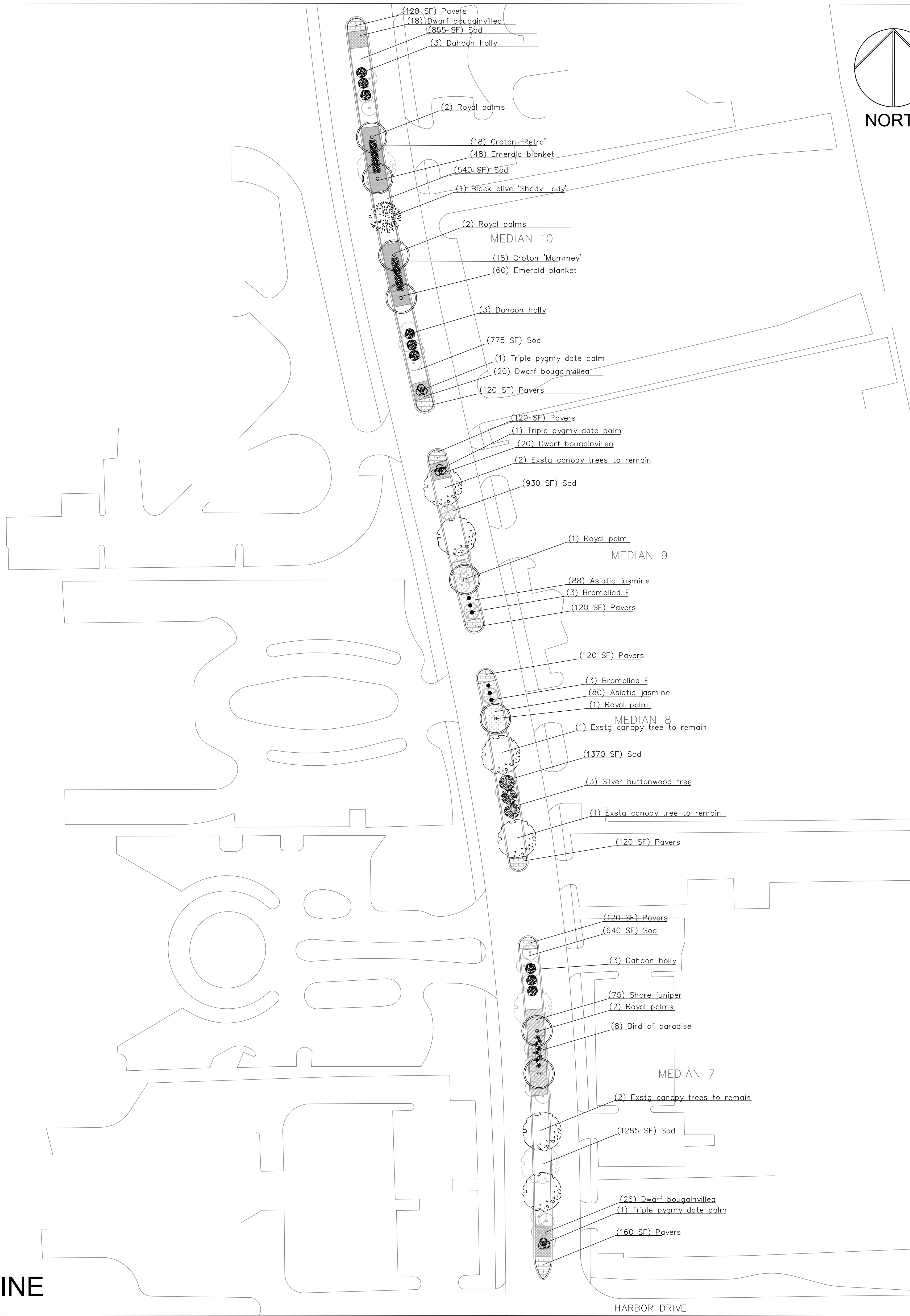
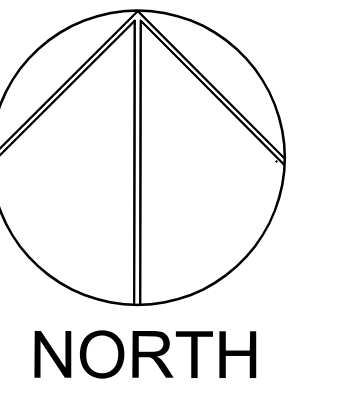
A. GAIL BOORMAN
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Median Landscape Renovation
 Gulf Shore Boulevard North
 City of Naples, Florida

REVISIONS	BY

DRAWN AGB
CHECKED AGB
DATE 12/3/2014
SCALE 1" = 40'
JOB NO. GSEB1
ACAD NO. GSEB1_D08e2
SHEET LA-2

MATCH LINE



MATCH LINE

Medians 7-10, Planting Plan

Median Landscape Renovation

Gulf Shore Boulevard North
City of Naples, Florida

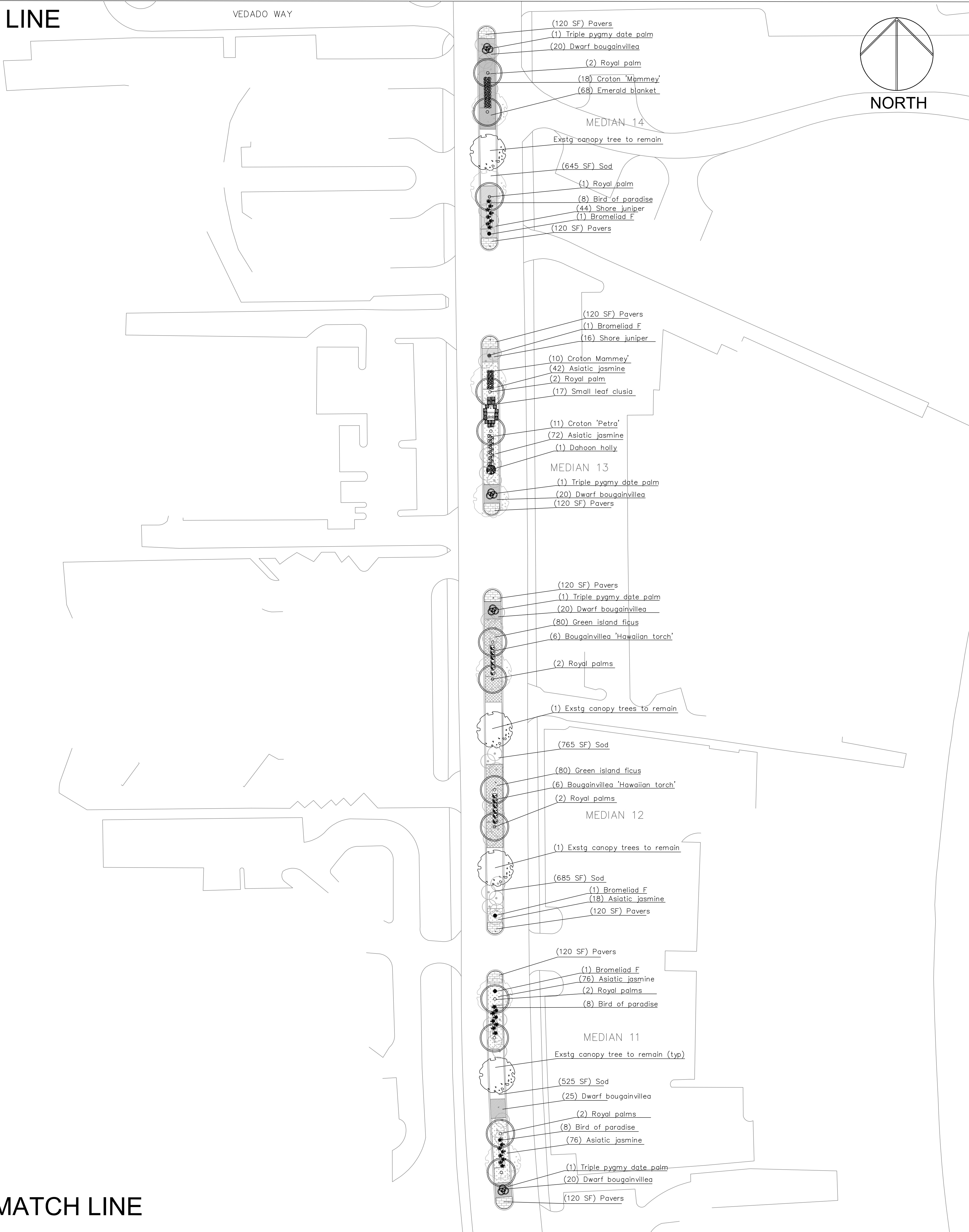
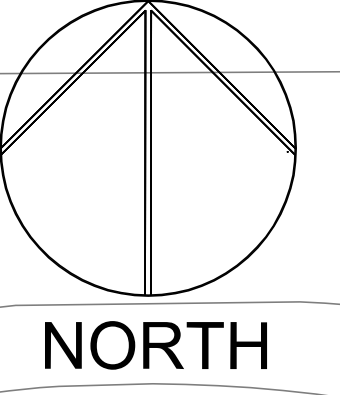
A. GAIL BOORMAN
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NAPLES, FLORIDA 34102
(239) 263-2242
EMAIL: BOORMAN@COMCAST.NET

REVISIONS	BY

DRAWN AGB
CHECKED AGB
DATE 12/3/2014
SCALE 1" = 40'
JOB NO. GSRN
ACAD NO. GSRN_09862
SHEET LA-3

MATCH LINE

VEDADO WAY



MATCH LINE

Medians 11-14, Planting Plan

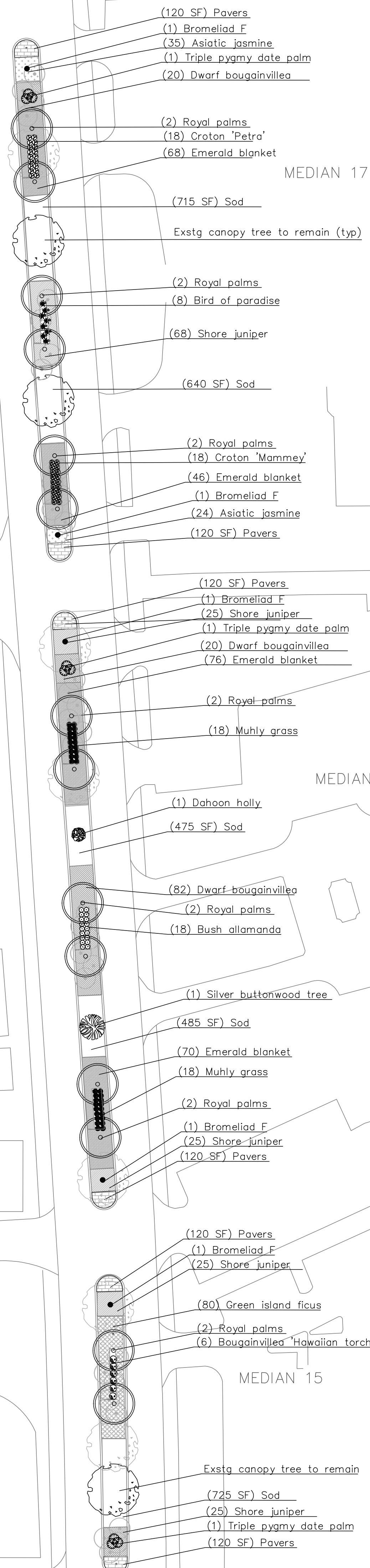
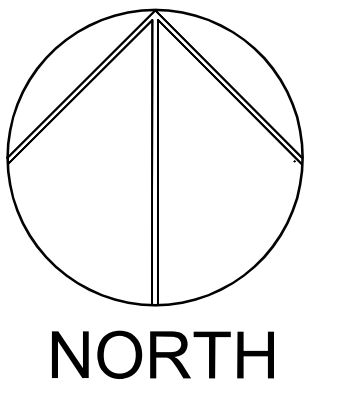
Median Landscape Renovation
 Gulf Shore Boulevard North
 City of Naples, Florida

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 NAPLES, FLORIDA 34102
 (239) 263-2242
 EMAIL: BOORMAN@COMCAST.NET

DRAWN	ASB
CHECKED	ASB
DATE	12/3/2014
SCALE	1" = 40'
JOB NO.	GSBN
ACAD NO.	GSBN_bose2
SHEET	LA-4

REVISIONS	BY

MATCH LINE



MATCH LINE

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LANDSCAPE ARCHITECT
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 NAPLES, FLORIDA 34102
 (239) 263-2242
 EMAIL: BOORMAN@COMCAST.NET

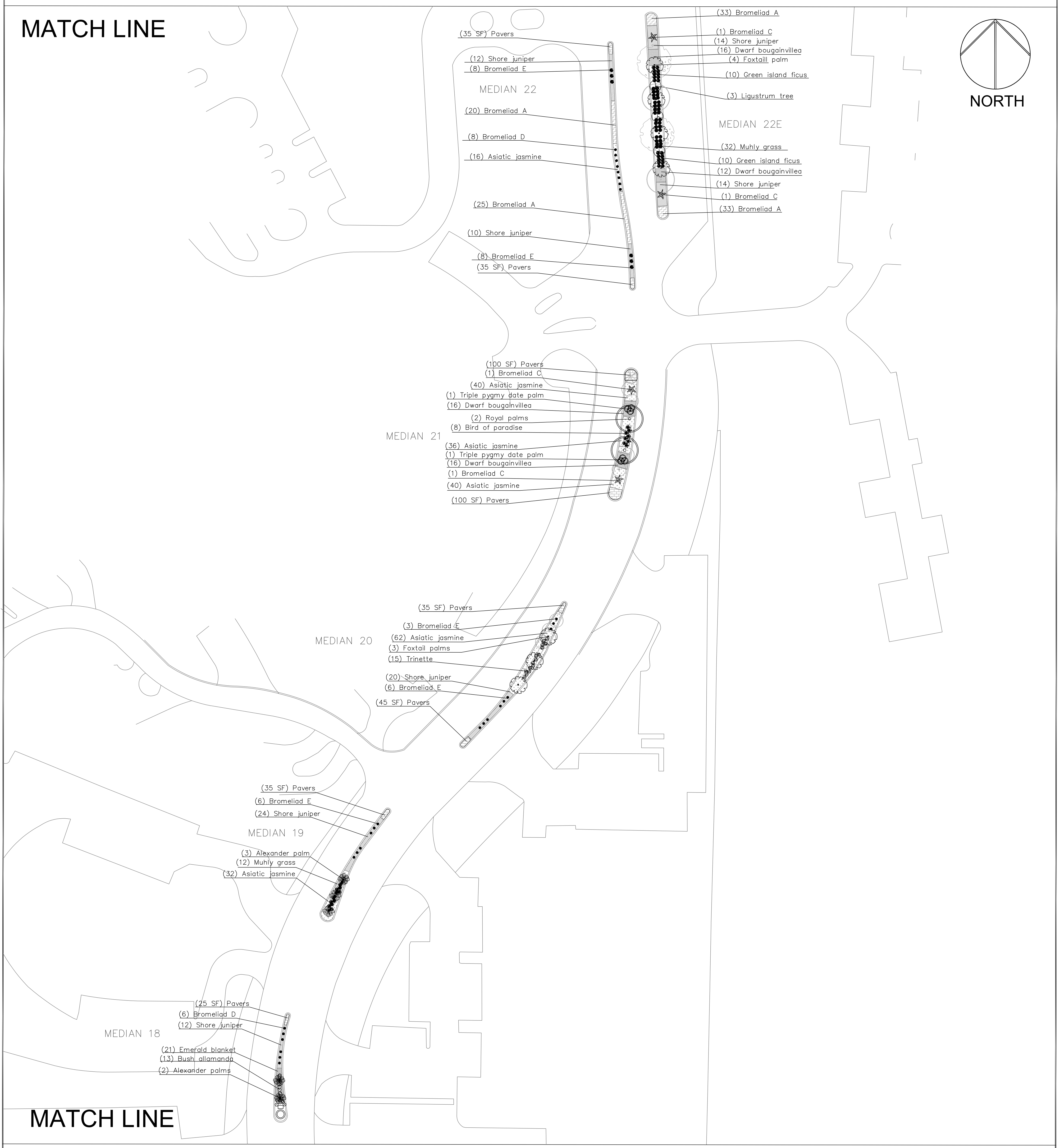
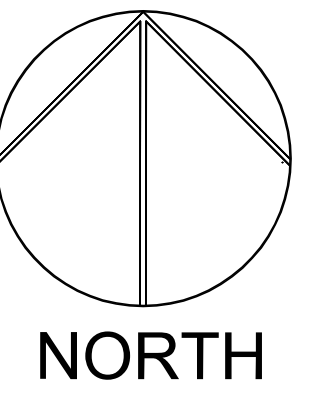
Median Landscape Renovation

Gulf Shore Boulevard North
 City of Naples, Florida

REVISIONS	BY

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CHECKED	AGB
DATE	12/3/2014
SCALE	1" = 40'
JOB NO.	03581
AG/AD NO.	03581_005e2
SHEET	LA-5

MATCH LINE



MATCH LINE

Medians 18 - 22E, Planting Plan

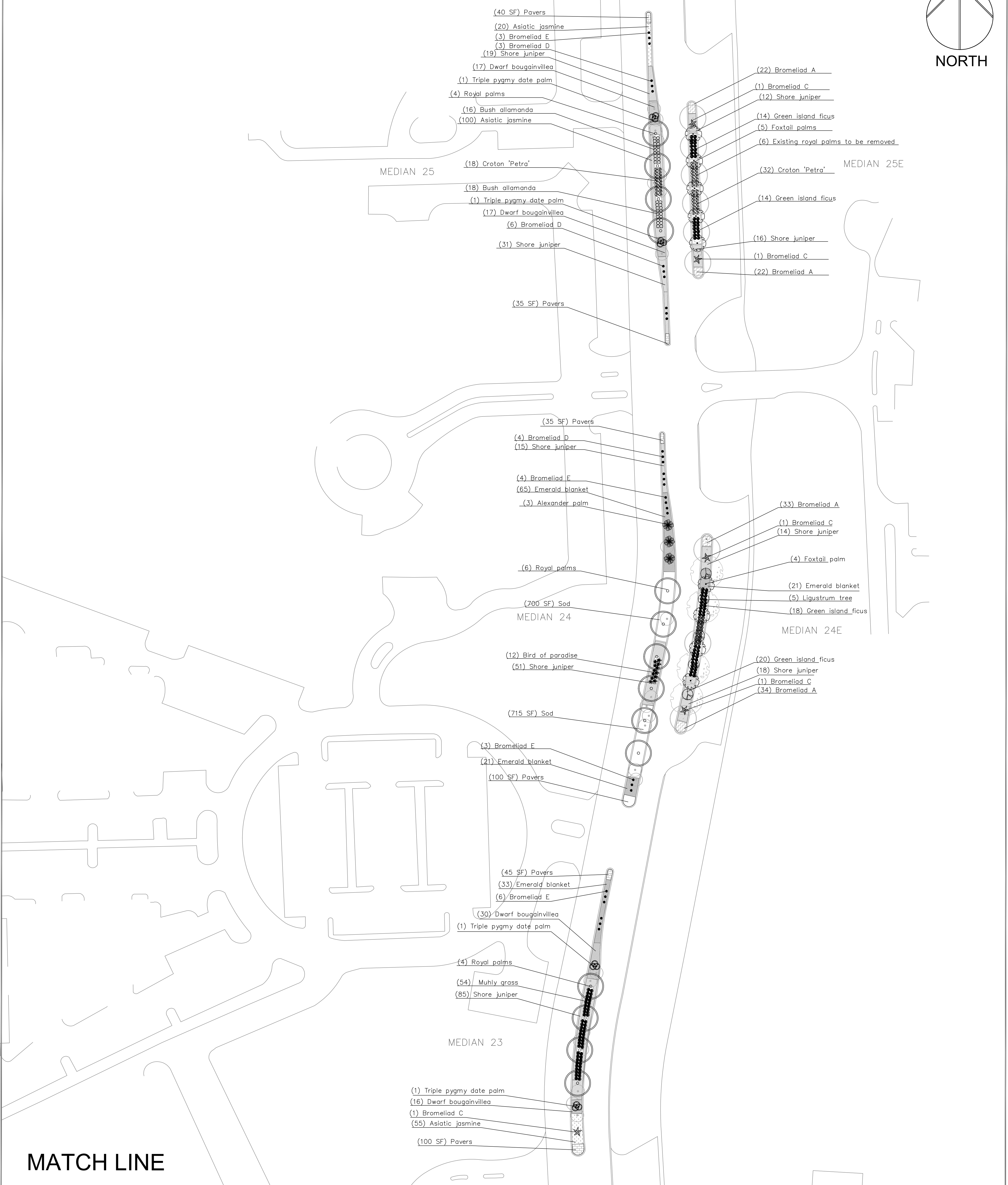
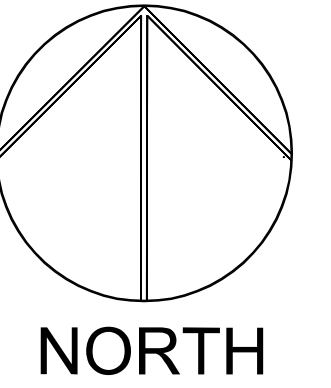
A. GAIL BOORMAN
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 NAPLES, FLORIDA 34102
 (239) 263-2242
 EMAIL: BOORMAN@COMCAST.NET

Median Landscape Renovation
 Gulf Shore Boulevard North
 City of Naples, Florida

REVISIONS	BY

DRAWN AGB
CHECKED AGB
DATE 12/3/2014
SCALE 1" = 40'
JOB NO. 055N_duse2
ACAD NO. 055N_duse2
SHEET LA - 6

MATCH LINE



MATCH LINE

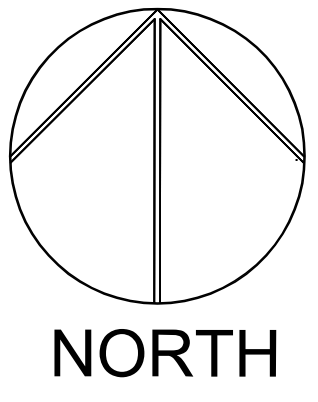
Medians 23 – 25, Planting Plan

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 NAPLES, FLORIDA 34102
 (239) 263-2242
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Median Landscape Renovation
 Gulf Shore Boulevard North
 City of Naples, Florida

DRAWN	AGB
CHECKED	AGB
DATE	12/3/2014
SCALE	1" = 40'
JOB NO.	0351N
ACAD. NO.	GSSN_bose2
SHEET	LA-7

REVISIONS	BY



MATCH LINE

- Remove 135 SF exstg concrete
- (40 SF) Pavers
- (4) Bromeliad E
- (30) Shore juniper
- (6) Alexander palms
- (40) Asiatic jasmine
- (16) Bird of paradise
- MEDIAN 29
- (29) Shore juniper
- (5) Bromeliad D
- (40 SF) Pavers

- (40 SF) Pavers
- (15) Shore juniper
- (3) Bromeliad D
- (3) Bromeliad E
- (3) Foxtail palms
- (20) Trinettes
- (126) Asiatic jasmine
- MEDIAN 28
- (3) Bromeliad E
- (6) Bromeliad D
- (30) Shore juniper
- (40 SF) Pavers
- Remove 3350 SF exstg pavers

PARK SHORE DRIVE

- (25 SF) Pavers
- Remove 165 SF exstg pavers
- (6) Bromeliad D
- (12) Shore juniper
- (3) Bromeliad E
- (12) Trinettes
- (3) Foxtail palms
- (40) Asiatic jasmine
- MEDIAN 27
- (15) Shore juniper
- (3) Bromeliad D
- (40 SF) Pavers

- (100 SF) Pavers
- (1) Bromeliad C
- (40) Asiatic jasmine
- (16) Dwarf bougainvillea
- (1) Triple pygmy date palm
- (7) Royal palms
- (745 SF) Sod

- (16) Bird of paradise
- (70) Shore juniper
- MEDIAN 26

- (785 SF) Sod
- (16) Dwarf bougainvillea
- (1) Triple pygmy date palm
- (1) Bromeliad C
- (40) Asiatic jasmine
- (100 SF) Pavers

MATCH LINE

DRAWN AGB	CHECKED AGB	DATE 12/3/2014	SCALE 1" = 40'	JOB NO. GSSN	ACAD NO. GSSN_duse2	SHEET LA-8
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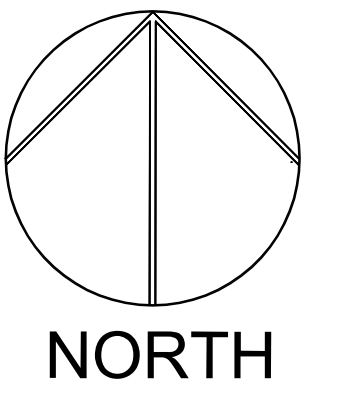
Median Landscape Renovation

Gulf Shore Boulevard North
City of Naples, Florida

REVISIONS	BY

MATCH LINE

MEDIAN 33E



- (1) Green Island ficus
- (1) Alexander palm
- (1) Bromeliad C
- (14) Shore juniper
- (22) Bromeliad A

MEDIAN 32

- (40 SF) Pavers
- (3) Bromeliad D
- (50) Asiatic jasmine
- (3) Bromeliad D
- (21) Dwarf bougainvillea
- (12) Bird of paradise
- (38) Shore juniper
- (3) Royal palms
- (19) Dwarf bougainvillea
- (3) Bromeliad E
- (46) Asiatic jasmine
- (3) Bromeliad E
- (40 SF) Pavers

- (20) Bromeliad A
- (1) Bromeliad C
- (10) Shore juniper
- (5) Foxtail palm
- (7) Green island ficus
- (14) Croton 'Mammey'

MEDIAN 32E

- (7) Green island ficus
- (10) Shore juniper
- (1) Bromeliad C
- (20) Bromeliad A

MEDIAN 31

- (40 SF) Pavers
- (5) Bromeliad E
- (35) Asiatic jasmine
- (3) Foxtail palms

- (70) Dwarf bougainvillea
- (3) Royal palms
- (36) Muhly grass

(50) Emerald blanket

MEDIAN 31

- (40) Shore juniper
- (5) Bromeliad D
- (90 SF) Pavers

MEDIAN 30

- (100 SF) Pavers
- (62) Shore juniper
- (5) Bromeliad D
- (6) Royal palms

(98) Emerald blanket

- (36) Trinette
- (18) Muhly grass
- (36) Trinette

- (72) Asiatic jasmine
- (5) Bromeliad E
- (90 SF) Pavers

MEDIAN 30E

- (22) Bromeliad A
- (1) Bromeliad C
- (14) Shore juniper
- (6) Ligustrum tree
- (6) Alexander palms
- (12) Green island ficus

(25) Croton 'Petra'

- (12) Green island ficus
- (1) Bromeliad C
- (14) Shore juniper
- (22) Bromeliad A

MATCH LINE

Medians 30E – 33E, Planting Plan

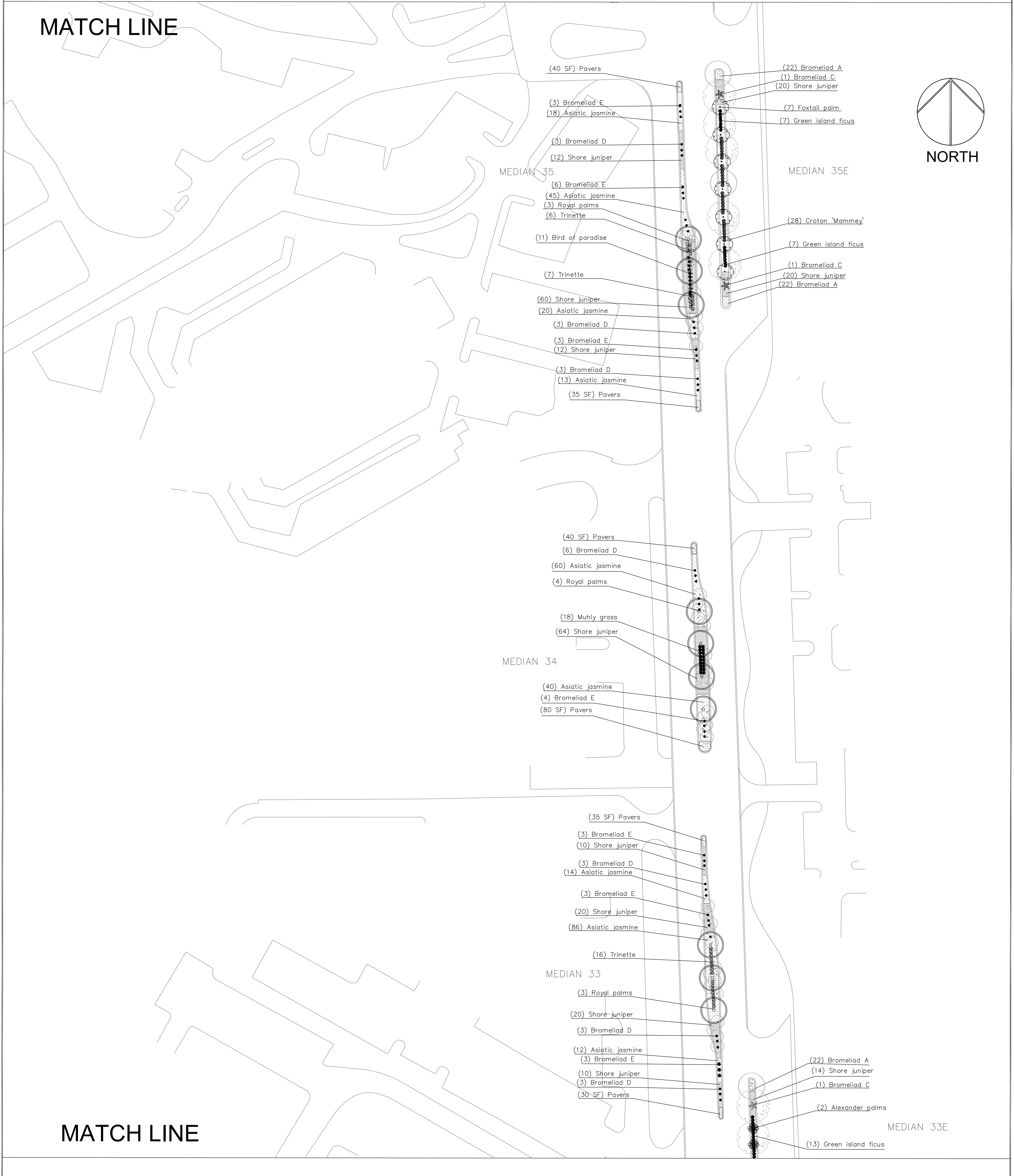
Median Landscape Renovation
Gulf Shore Boulevard North
City of Naples, Florida

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LANDSCAPE ARCHITECT
1100 FIFTH AVENUE SOUTH, SUITE 201
NAPLES, FLORIDA 34102
(239) 263-2242
EMAIL: BOORMAN@COMCAST.NET

DRAWN AGB
CHECKED AGB
DATE 12/3/2014
SCALE 1" = 40'
JOB NO. GSEB_LB3822
ACAD NO. GSEB_LB3822
SHEET LA - 9

REVISIONS	BY

MATCH LINE



MATCH LINE

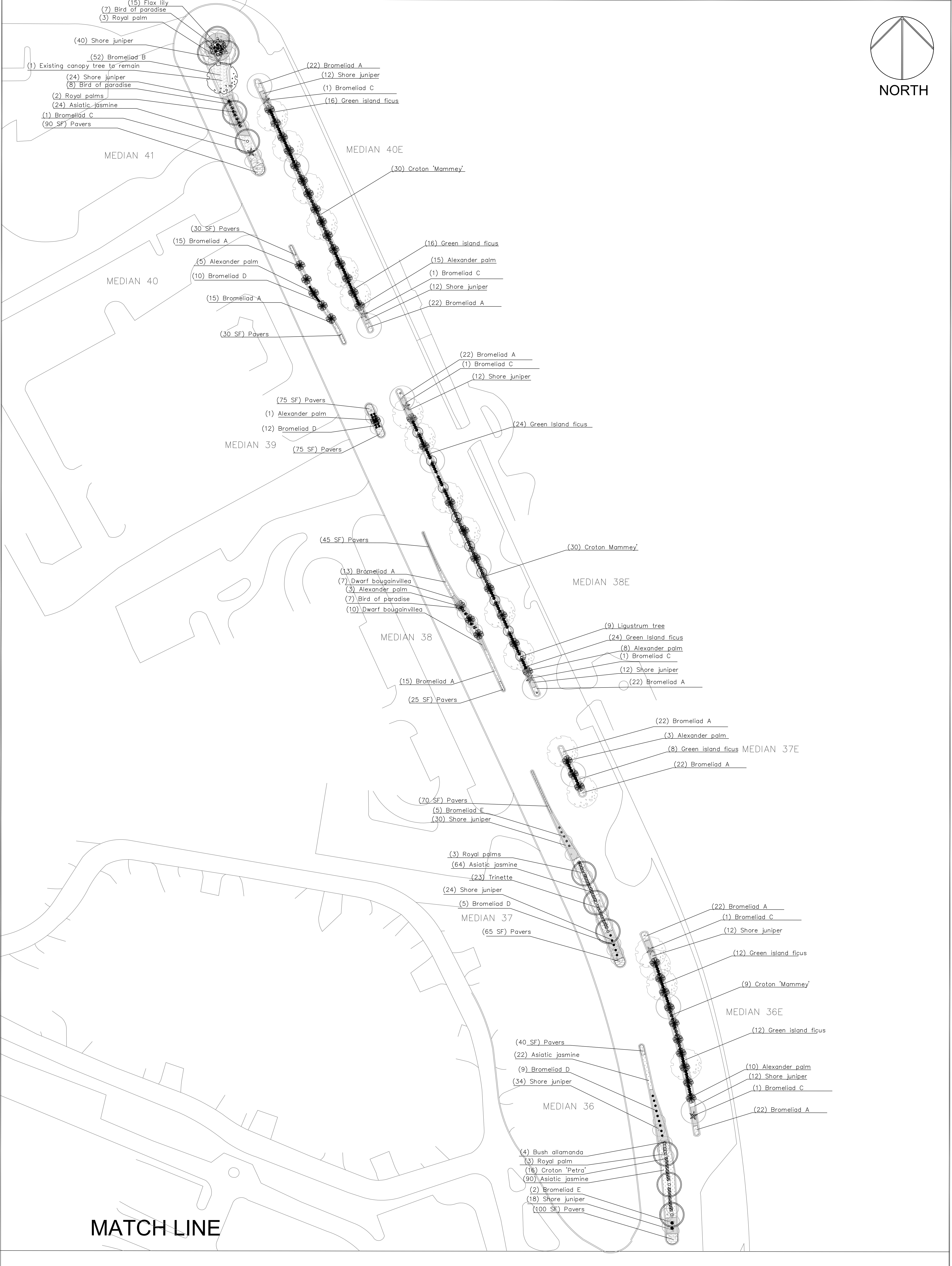
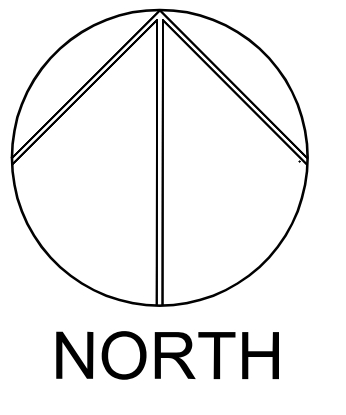
Medians 33E – 35E, Planting Plan

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 NAPLES, FLORIDA 34102
 (239) 263-2242
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Median Landscape Renovation
 Gulf Shore Boulevard North
 City of Naples, Florida

REVISIONS	BY

DRAWN AGB
CHECKED AGB
DATE 12/3/2014
SCALE 1" = 40'
JOB NO. 0585N
ACAD NO. G585N_duse2
SHEET LA - 10



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DRAWN	ACB
CHECKED	ACB
DATE	12/3/2014
SCALE	1" = 40'
JOB NO.	G5BN
ACAD NO.	G5BN_base2
SHEET	LA-11

A. GAIL BOORMAN
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 NAPLES, FLORIDA 34102
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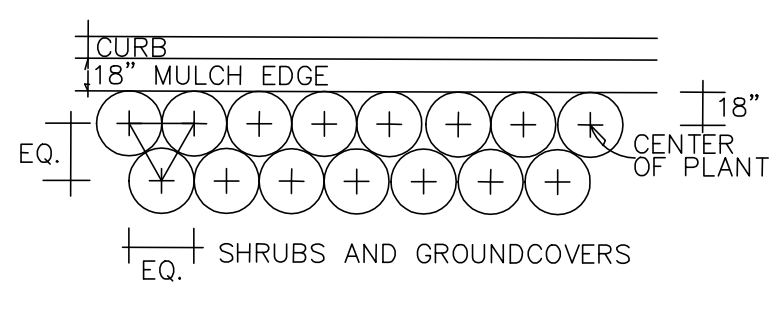
Median Landscape Renovation

Gulf Shore Boulevard North

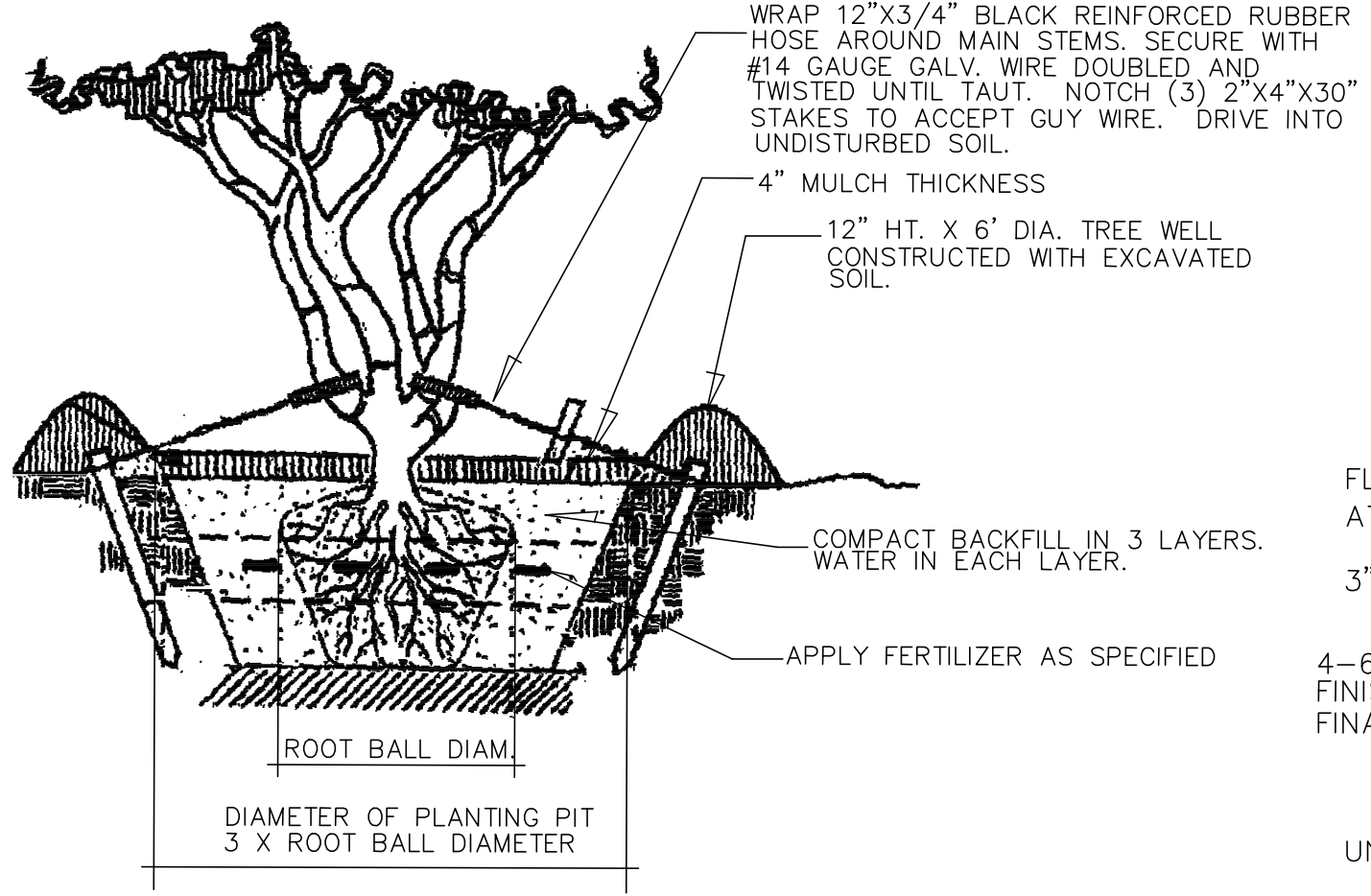
City of Naples, Florida

REVISIONS	BY

NOTE: Maintain 5' horizontal and 18" vertical separation of trees from utilities. Modify tree layout accordingly. Notify Owner's Representative if conflicts exist.

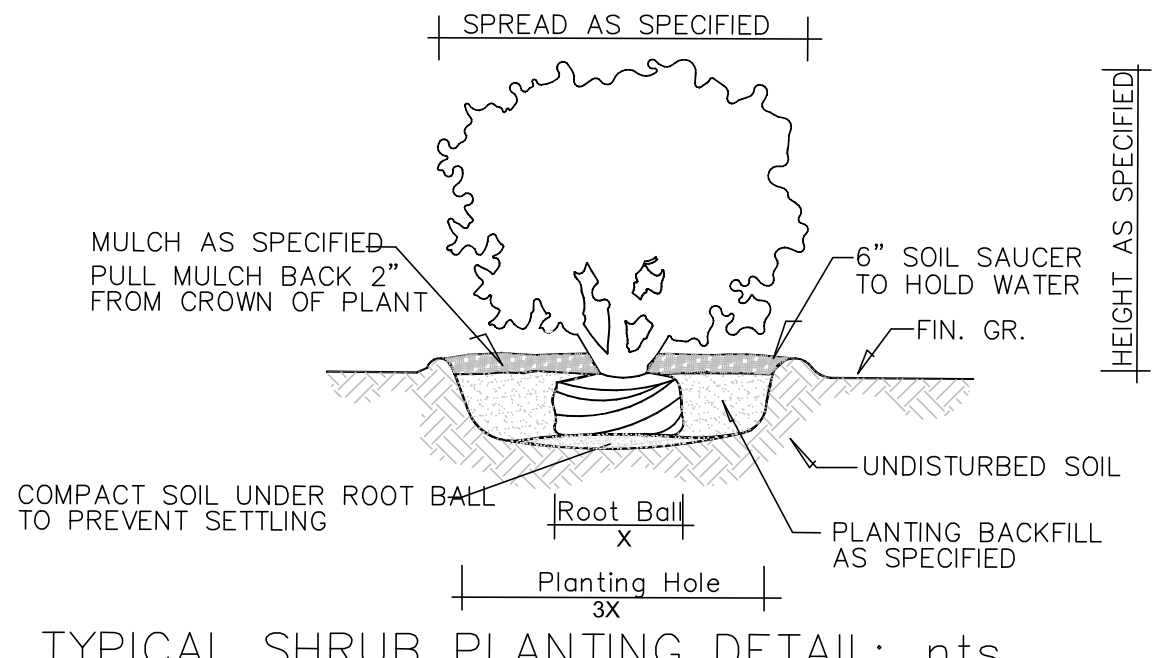


EQ= SPACING INDICATED ON PLANT LIST ALL TRIANGULAR SPACINGS
PLANT MASSING LAYOUT IN MEDIANS
NOT TO SCALE

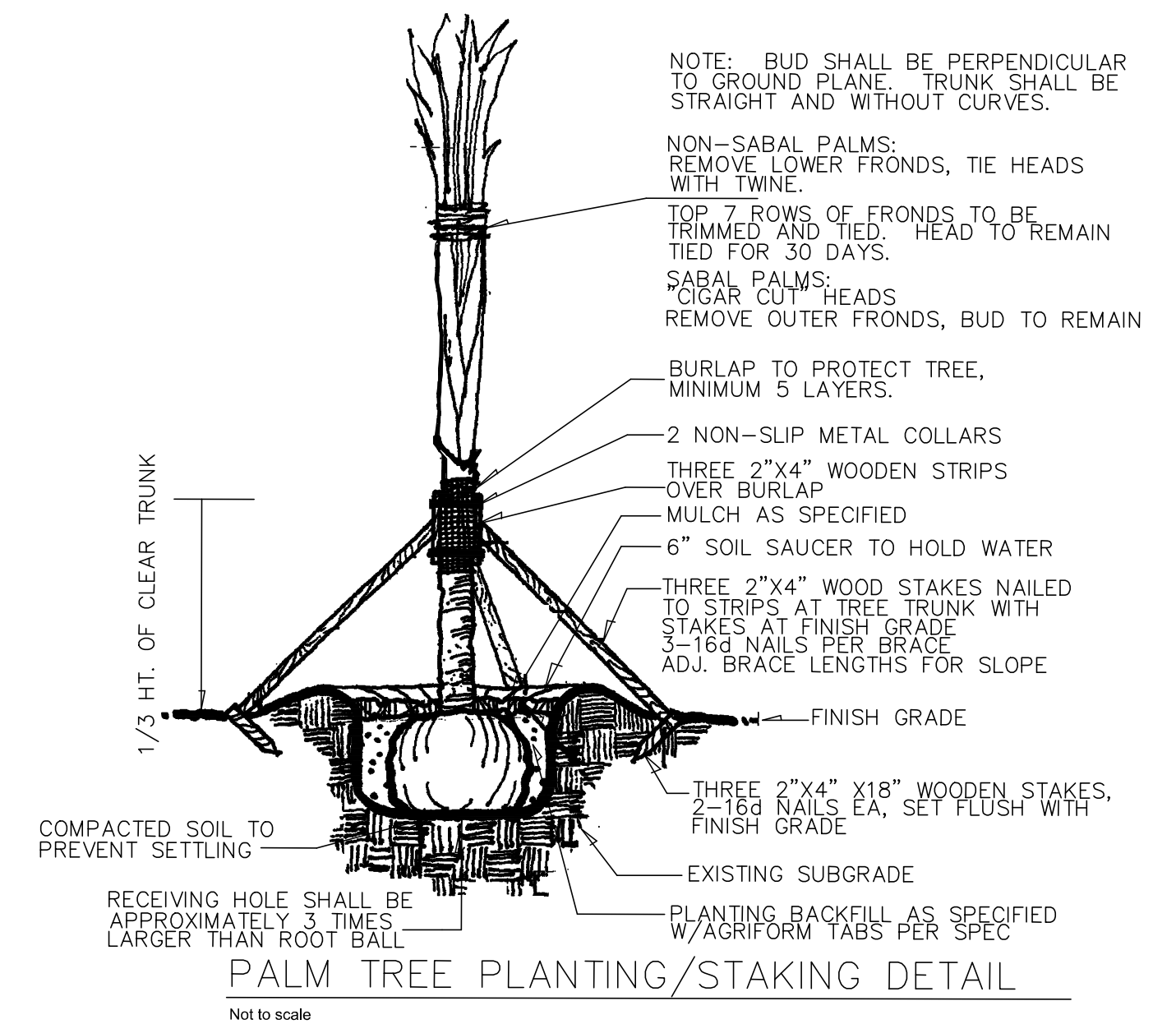


FLOOD TREE WELL, WITH WATER ON INSTALLATION. FILL WELL DAILY FOR FIRST 30 DAYS, EVERY OTHER DAY FOR NEXT 60 DAYS.

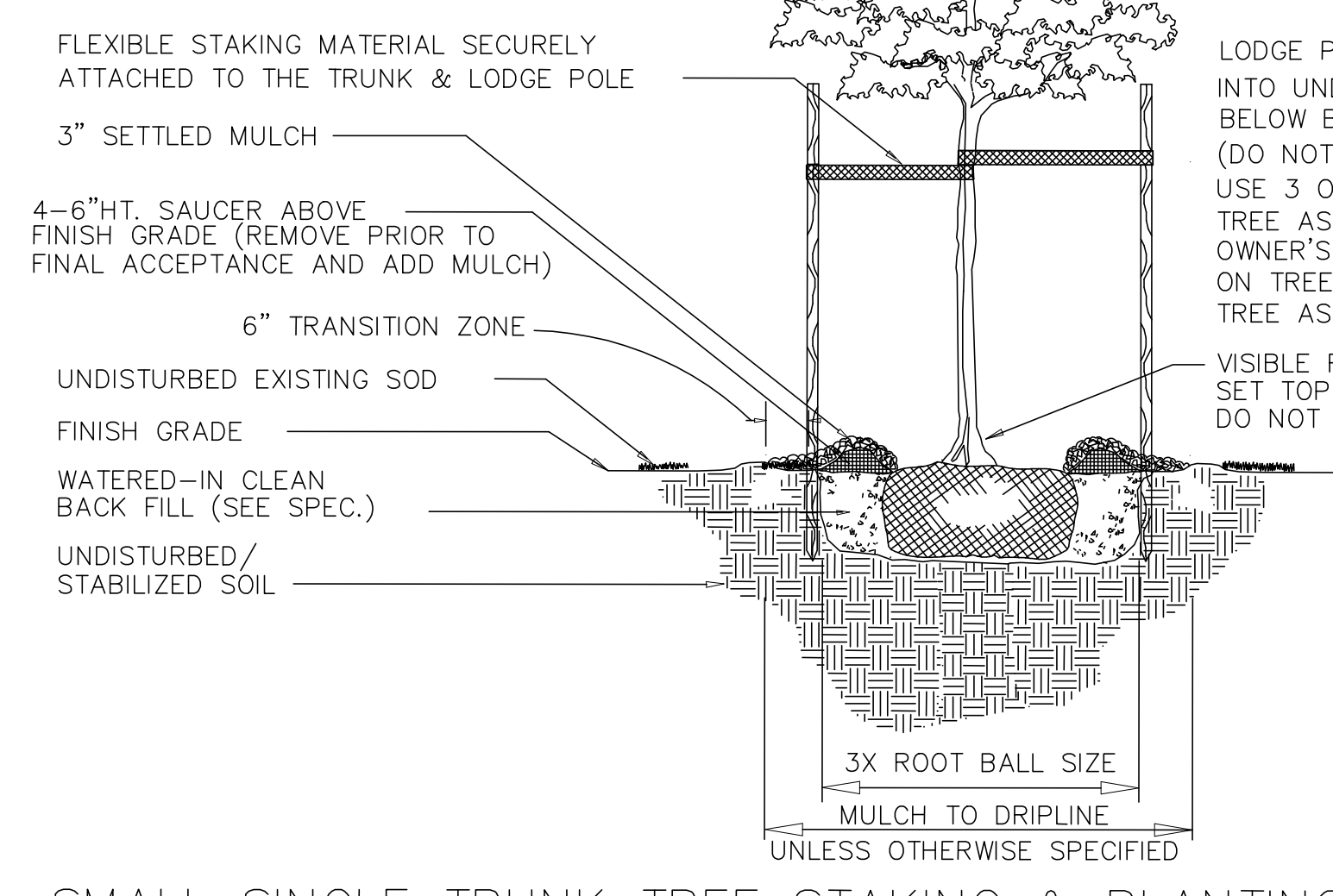
MULTITRUNKED TREE PLANTING/STAKING DETAIL
NOT TO SCALE



TYPICAL SHRUB PLANTING DETAIL: nts



PALM TREE PLANTING/STAKING DETAIL
Not to scale



SMALL SINGLE TRUNK TREE STAKING & PLANTING DETAIL
NOT TO SCALE

Gulfshore Boulevard North, Median Landscape Renovation, 2400 block through 4900 block

Common Name	Scientific Name	Planting Size	Quantity
Alexander palm	<i>Ptychosperma elegans</i>	25 gallon, 10'-12' ht, single	59
Pygmy date palm	<i>Phoenix roebelinii</i>	25 gallon, 5' ht, triple, fg	23
Royal palm	<i>Roystonea regia</i>	3'-4' GW, 12'-15' ht, full, fg	111
Foxtail palm	<i>Wodyetia bifurcata</i>	12'-14' ht, full, fg	37

Common Name	Scientific Name	Planting Size	Quantity
Black olive Shady Lady	<i>Bucida buceras 'Shady Lady'</i>	25 gallon, 10'-12' ht, full	4
Silver buttonwood tree	<i>Conocarpus erectus 'sericeus'</i>	25 gallon, 6'-8' ht, full	7
Dahoon holly	<i>Ilex cassine</i>	25 gallon, 6' ht, full	20
Ligustrum tree	<i>Ligustrum japonica</i>	6'x6', multi, fg, full	23

Common Name	Scientific Name	Planting Size	Quantity
Bush allamanda	<i>Allamanda schottii</i>	3 gallon, 12"-18" ht, full, 36" oc	87
Hawaiian torch	<i>Bougainvillea 'Hawaiian torch'</i>	3 gallon, 18"-24" ht, full, 48" oc	36
Small leaf clusia	<i>Clusia guttifera</i>	3 gallon, 18" ht, full bshy, 36" oc	17
Mammey croton	<i>Codiaeum variegatum 'Mammey'</i>	3 gallon, 12"-18" ht, full bshy, 30" oc	193
Petra croton	<i>Codiaeum variegatum 'Petra'</i>	3 gallon, 18"-24" ht, full, 36" oc	150
Muhly grass	<i>Muhlenbergia cappularis</i>	3 gallon, 18" ht, full, 36" oc	224
Xanadu philodendron	<i>Philodendron 'Xanadu'</i>	3 gallon, 18" ht, full, 36" oc	45
Trinette	<i>Schefflera arboricola 'Trinette'</i>	3 gallon, 18" ht, full, 36" oc	213
Bird of paradise	<i>Strelitzia reginae</i>	3 gallon, 24" ht, full, 48" oc	146

Common Name	Scientific Name	Planting Size	Quantity
Dwarf bougainvillea	<i>Bougainvillea 'Helen Johnson'</i>	3 gallon, full, 36" oc	847
Emerald blanket	<i>Carissa macrocarpa 'Emerald blanket'</i>	3 gallon, full, 36" oc	943
Flax lily	<i>Dianella tasmanica 'variegata'</i>	1 gallon, full, 24" oc	57
Green island ficus	<i>Ficus microcarpa 'Green Island'</i>	3 gallon, full, 36" oc	780
Shore juniper	<i>Juniperus conferta 'Blue Pacific'</i>	1 gallon, full, 36" oc	1781
Asiatic jasmine	<i>Trachelospermum asiaticum</i>	1 gallon, full, 30" oc	1967
Sod	<i>Stenotaphrum secundatum 'Floratum'</i>	solid sod, 12"x24"x2", tightly butted, rolled	24765 SF
Pavers	Paver Module P-355 Peach/Coral/Charcoal: infill brick @ 45degree angle Paver Module E-20 Green: Single soldier course border Site prep and installation per manufacturer's recommendations		6395 SF

Common Name	Scientific Name	Planting Size	Quantity
Bromeliad A	<i>Neoregelia 'Fireball'</i>	6" pot, full	613
Bromeliad B	<i>Neoregelia 'BossaNova'</i>	9" pot, full	67
Bromeliad C	<i>Alcantarea odorata</i>	9" pot, full	26
Bromeliad D	<i>Neoregelia 'Sunshine'</i>	6" pot, full	126
Bromeliad E	<i>Neoregelia Tossed Salad'</i>	6" pot, full	111
Bromeliad F	<i>Aechmea 'Alvarez'</i>	6" pot, full	18

Mulch (by others)	Shredded eucalyptus	Grade B cypress, 4" fluffed, 2" after settle	1000 cy
Drip irrigation system (by others)	100% coverage	installed by others; coordinate with planting ops.	
Site prep, hardwood removal	less than 10" dbh, incl. stump removal	as directed	20
Site prep, hardwood removal	11"-20" dbh, incl. stump removal	as directed	57
Site prep, hardwood removal	21"-36" dbh, incl. stump removal	as directed	8
Site prep, palm removal	11"-20" dbh, incl. stump removal	as directed	406
Site prep, bed areas	Remove all exstg plants, roots, stones, debris, etc except exstg to remain		105,825 sf
Site prep, soil placement	Replace removed soil	per testing reports, as directed	1 CY (unit)
Site prep, soil amendment	Amend existing soil	per testing reports, as directed	1 CY (unit)
Remove exstg paving in medians	Remove exstg conc/pavers	prep for new pavers and/or landscape	300 SF

- NOTES**
- All plants to be graded Florida #1 or better.
 - Provide soil test from an approved testing lab for each median to Owner's Representative.
 - Amend or replace unacceptable soil as directed.
 - Replacement soil shall be sandy loam typical of native topsoils of the area. Provide representative sample and soil test by an accredited testing lab; amend as instructed by soil test report to achieve desired pH and soil drainage/percolation rates.
 - If a hardpan is discovered in locations where trees are to be planted, remove and replace soil to a minimum depth of 36" or 12" below the bottom of the root ball, whichever is greater.
 - Bring all field conditions and variances to the drawings to the attention of the City Representative prior to making any adjustments or changes.
 - Remove all debris from site; rake and leave in a smoothly graded neat and clean condition.
 - Remove all existing trees unless indicated to remain on plans.
 - Remove all stones, pebbles, roots and other debris from planting soil.

DRAWN	AGB
CHECKED	AGB
DATE	12/3/2014
SCALE	AS SHOWN
JOB NO.	G5BN
ACAD NO.	G5BN_base2
SHEET	LA-12

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REVISIONS	BY