

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

NOTIFICATION DATE: <b>09/28/12</b>	TITLE <b>Pedestrian Street Cross Walk Installation – Four Corners</b>	NUMBER: <b>054-12</b>	OPENING DATE & TIME: <b>10/24/12 2:00 PM</b>
<b>PRE-BID DATE, TIME AND LOCATION:</b> <b>A non-mandatory pre-bid meeting will be held on Wednesday October 10, 2012 at 10:00 AM at the Project Site located at the north-east corner of 5th Avenue - South and US 41, Naples, Florida 34102</b>			
NAME OF PARTNERSHIP, CORPORATION OR INDIVIDUAL:			
MAILING ADDRESS:			

**PLEASE NOTE THE FOLLOWING:**

CITY-STATE-ZIP:	
PH:	EMAIL:
FX:	WEB ADDRESS:

> **This page must be completed and returned with your bid.**

AUTHORIZED SIGNATURE	DATE	PRINTED NAME/TITLE
<small>Please initial by all that apply  I acknowledge receipt of the following addendum</small> <small>____Addendum #1                      ____Addendum #2                      ____Addendum #3                      ____Addendum #4</small>		
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.		

- > **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 8<sup>th</sup> 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 Request for Proposals 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:** \_\_\_\_\_

## SPECIAL CONDITIONS

**A. TERMS OF CONTRACT**

The resulting contract will commence on award and be in effect until completion of the project.

**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. QUESTIONS**

Questions regarding this bidder packet must be received in writing in the Purchasing Division, **NO LATER THAN TEN CALENDAR DAYS PRIOR TO THE BID CLOSING DATE TO ENSURE AN ANSWER IS PROVIDED PRIOR TO CLOSING.**

**Direct all questions to:**

[Greg Givens, Purchasing Manager](#)

City of Naples, Purchasing Division

735 8<sup>th</sup> Street South

Naples, Florida 34102

**PH: (239) 213-7100 FX: (239) 213-7105**

[ggivens@naplesgov.com](mailto:ggivens@naplesgov.com)

## SUBMISSION CHECKLIST

Bidder should check off each of the following items as the necessary action is completed:

CHECKLIST ELEMENTS	INCLUDED
<ul style="list-style-type: none"> <li>• Original and one (1) copy of bid document have been submitted.</li> </ul>	
<ul style="list-style-type: none"> <li>• Any required drawings; descriptive literature; questionnaire; pricing &amp; pricing tabulations; and any information required of bidder, etc. have been included.</li> </ul>	
<ul style="list-style-type: none"> <li>• Any delivery information required is included.</li> </ul>	
<ul style="list-style-type: none"> <li>• Complete and include this form with your bid document. Have an authorized individual sign in original at the appropriate pages.</li> </ul>	
<ul style="list-style-type: none"> <li>• The bid document has been signed on the cover page with any bid addendums initialed.</li> </ul>	
The mailing envelope has been addressed to: City of Naples Purchasing Division 735 8 <sup>th</sup> Street South Naples, Florida 34102	
The mailing envelope should be sealed and marked with: BID Number BID Title Closing Date	

## SCOPE OF WORK & SPECIFICATIONS



*(The above are Conceptual Renderings)*

The City of Naples seeks a construction firm to provide construction services as well as procurement, installation, integration and testing of a traffic signal mast arm and pedestrian crossing at Intersection No. 246, State Road No.90 and State Road No. 45 (please see plan sheet for location map). This location is locally known as the four corners intersection in Naples, FL

The purpose of the project is to provide safe pedestrian crossing on the north side of the intersection by constructing a 95-foot crosswalk with pedestrian crossing signals. In order to accomplish this, a new set of traffic signals on a new mast arm must be installed to control two existing free-flow lanes of traffic. Please see the attached renderings that only serve as conceptualized images of the proposed work. The scope of work includes, but it is not limited to, furnishing all labor, materials, supplies, equipment, devices, and incidentals to construct integrate and test the modified signalized intersection.

The specific services anticipated include, but not limited to subsurface investigations, utility coordination, field verification, maintenance of traffic, signing and pavement marking, Americans with Disability Act (ADA) compliant sidewalk construction and final field survey. The work includes earthwork and concrete placement for pole foundations, installation of conduit with required earthwork, erection of mast arm, installation of signal heads, controller modifications, installation of wiring, cable, appurtenances and auxiliary equipment necessary for the complete installation of the traffic signal system as shown on the plans and per the aforementioned specifications and the State of Florida Basis of Estimates. It is the City's intent to award this project to a single firm.

The construction firm shall also furnish and install all new equipment and materials used in construction of the project, including, but not limited to the following items:

- Traffic signals and back plates including their mounting devices
- Conduit and cabling
- Pull and junction boxes
- Loop detectors

- Drilled shaft foundation and mast arm
- Countdown pedestrian signals (signal, mounting hardware, pedestals, etc.)
- Pedestrian detector assemblies (push button, push button housing, lead-in wires, etc.)
- Grounding for protection against faults, surge currents and lighting transients
- Traffic controller modifications
- Continuous operation of the intersection traffic controls throughout the project
- Temporary traffic control (approved M.O.T.)
- Replacement of any disturbed landscaping
- Replacement of any disturbed concrete sidewalk and asphalt pavement
- Replacement of any traffic control equipment
- Replacement of any disturbed ITS or ATMS equipment
- Upgrade and modification of pedestrian features to meet all current ADA requirements (including, but not limited to sidewalk ramps/landing, truncated domes)

The City of Naples will provide a project inspector and project engineer who will represent the City throughout the duration of the project and work closely with the construction firm throughout the project's duration. It is the City's intent to award this project to a single firm.

*The below are a Conceptual Renderings*





## CONSTRUCTION SCHEDULE

The implementation of this project shall occur according to a schedule set forth in the final agreement approved by City Council. The following schedule below is expected to be approved as part of the contract award process. Please note that all bid prices shall remain “as bid” for the duration of this contract.

Bid Opening:	Wednesday, October 24, 2012
Contract Award:	Wednesday, November 7, 2012
Notice To Proceed #1: <b>Purchase Materials Only</b>	Friday, November 9, 2012
Notice To Proceed #2: <b>Site Construction</b>	Monday, April 8, 2013
Substantial Completion	Friday, May 3, 2013
Final Completion	Friday, May 10, 2013

## LIQUIDATED DAMAGES

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 of Proceed. Should CONTRACTOR fail to complete the project within this timeframe, daily liquidated damages in an amount consistent with Sec. 8-10.2 Florida Department of Transportation Standard Specifications (2010) will be assessed.



## **SPECIFICATIONS SECTION**

The project plans have been prepared in accordance with and are governed by the State of Florida Department of Transportation, Standard and Specifications for Road and Bridge Construction (Dated 2010) and Design Standards Booklet (2010). Signal installation shall conform to the latest FDOT Supplemental Specifications for Traffic Signals and applicable City of Naples Standards.

**Specification Sections:** The following specification sections are identified and specifically apply to this project, including, but not limited to: Section 101 Mobilization, 102 Maintenance of Traffic, 110 Clearing and Grubbing, 160 Stabilizing, 520 Concrete Gutter, Curb Elements, and Traffic Separator, 522 Concrete Sidewalk, 527 Detectable Warnings on Walking Surfaces, 555 Directional Bore, 630 Conduit, 632 Signal and Interconnect Cable, 635 Pull and Junction Boxes, 649 Galvanized Steel Strain Poles (refer to coatings clarification below), and Mast Arm Assemblies, 650 Vehicular Signal Assemblies, 653 Pedestrian Signal Assemblies, 660 Inductive Loop Detectors, 665 Pedestrian Detector Assembly, 670 Traffic Controller Assembly, 580 Landscape Installation, 690 Removal of Existing Traffic Signal Equipment, 700 Highway Signing, 711 Thermoplastic Traffic Stripes and Markings. Refer to the State of Florida Department of Transportation, Standard and Specifications for Road and Bridge Construction (Dated 2010) for the specifications in their entirety.

**Specification Clarification:** Section 649-4.3 Painting: The Mast Arm Assemblies shall be painted per the following: The default finish color coat shall be “English Ivy” equal to Ameron Coatings PSX 700T3 Color Number 510007-217. The default finish color shall be Federal Code Color RAL 6005. Section 650-4.2 Includes standard traffic signal, with LED indicators, and all other materials necessary for a complete and acceptable installation.

## 4-Corners Pedestrian Improvement Project

Item	Description	FDOT Pay-Item No.	QTY.	UNIT	UNIT PRICE	LINE ITEM TOTAL
1	Mobilization	101-1	1	LS		\$ -
2	Maintenance of Traffic	102-1	1	LS		\$ -
3	Clearing Grubbing & Demolition (Standard & Special)	110-2-1 (Special), 110-4 (Special)	1	LS		\$ -
4	F & I Concrete Sidewalk (4" Thick)	522-1	42	SY		\$ -
5	F & I Detectible Warning On Walking Surface	527-1	2	EA		\$ -
6	Directional Bore, Less than 6" Diameter.	555-1-1	240	LF		\$ -
7	F & I Underground Conduit	630-1-12	225	LF		\$ -
8	F & I all Cable Wires for System Function	632-7-1	1	PI		\$ -
9	F & I Pull and Junction Boxes	635-1-11	5	EA		\$ -
10	F & I Mast Arm (High Loading) Includes Painting	649-31-104 649-4.3 (color)	1	EA		\$ -
11	F&I LED Signal Head, 3 Section, 1 Way, Standard	650-53-311	4	AS		\$ -
12	F & I Pedestrian Signal, LED Countdown	653-191	2	AS		\$ -
13	Back Plate 3 Section	659-101	4	EA		\$ -
14	F & I Aluminum Ped. Pedestal Painted Color of Mast Arm	659-1-11	2	EA		\$ -
15	F & I Loop Type F	660-2-106	6	EA		\$ -
16	F & I Pedestrian Detector	665-13	2	EA		\$ -
17	Uninterrupted Power Supply (UPS)	685-106	1	EA		\$ -
18	Modify Traffic Controller	670-5-410	1	AS		\$ -
19	Sign Single Post (<12') (F&I)	700-20-11	3	AS		\$ -
20	Sign Single Post (<12') (Relocate)	700-20-40	3	AS		\$ -
21	Sign Single Post (<12') (Remove)	700-20-60	1	AS		\$ -
22	Sign Panel (<12') (F&I)	700-48-18	5	AS		\$ -
23	Directional Arrow (White) (Thermoplastic)	710-11-170	5	EA		\$ -
24	Pavement Message Removal	710-17	50	SF		\$ -
25	Pavement Directional Arrow Removal	710-17	75	SF		\$ -
26	Pavement Markings Removal 6"	710-17	75	LF		\$ -
27	Pavement Markings Removal 24"	710-17	45	LF		\$ -
28	Solid Traffic Stripe (24" White) (Thermoplastic)	711-11-125	70	LF		\$ -
29	Pavement Message (White) (Thermoplastic)	711-11-160	4	EA		\$ -
30	Median Separation Special (Removal/Replacement)		1	LS		\$ -
31	Landscape Restoration	580	1	LS		\$ -
32	Site Irrigation	983	1	LS		\$ -
33	<b>SUBTOTAL</b>					\$ -
34	Unforeseen Conditions Allowance (10%)	999-25	1	LS	10%	\$ -
35	<b>TOTAL</b>					\$ -

AUTHORIZED SIGNATURE OF COMPANY REPRESENTATIVE:

\_\_\_\_\_

NAME (Print):

\_\_\_\_\_

**CITY OF NAPLES  
STREETS AND STORMWATER DEPARTMENT**

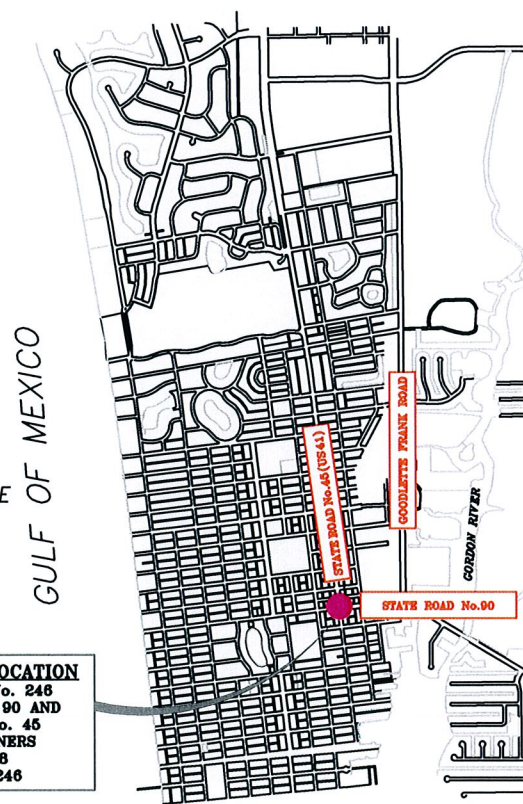
**STATE ROAD No. 90 (U.S.41) AND STATE ROAD No. 45  
AT FOUR CORNERS INTERSECTION**

**COUNTY SECTION No. 03010 AND M.P. 12.038**

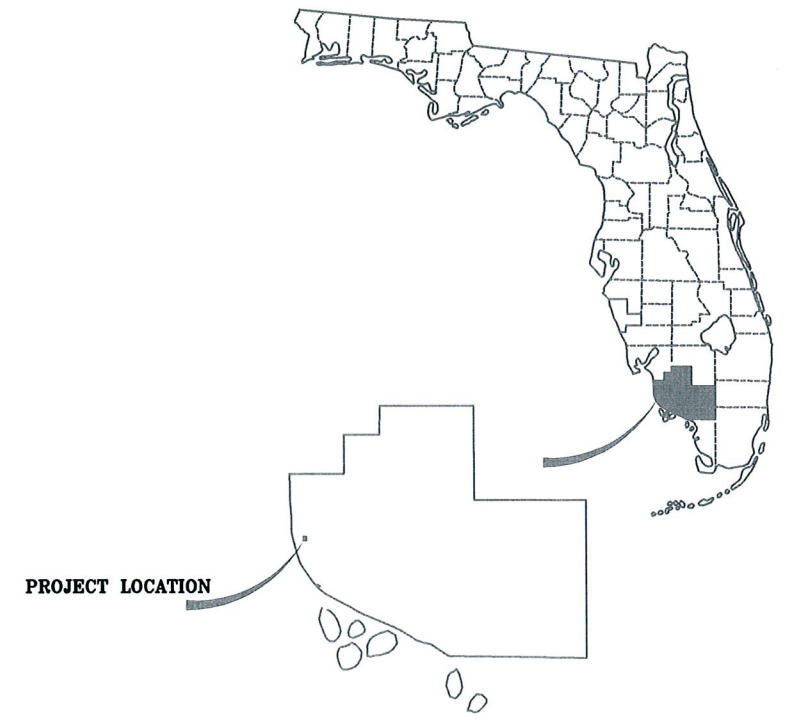
SIGNALIZATION PLANS

INDEX OF SIGNALIZATION PLANS

SHEET No.	SHEET DESCRIPTION
1	COVER SHEET
2	EXISTING SIGNALIZATION PLAN AND POLE LOCATION
3	EXISTING SIGNING AND PAVEMENT MARKING PLAN
4	DEMOLITION PLAN
5A	PROPOSED SIGNALIZATION PLAN
5B	PROPOSED SOP, SIGNAL, AND COMMUNICATION CABLE PLAN
5C	MAST ARM TABULATION AND SELECTION
5D	FDOT MAST ARM TABULATION SHEET FOR POLE LOCATION No.1A
5E	FDOT STANDARD MAST ARM ASSEMBLIES DATA TABLE FOR POLE LOCATION No.1A
6	PROPOSED SIGNING AND PAVEMENT MARKING PLAN
7	PROPOSED ADA SIDEWALK
8	PROPOSED SUMMARY OF PAY ITEMS AND NOTES
9	GENERAL NOTES
10	UTILITY LOCATION SHEET
11	MAINTENANCE OF TRAFFIC
12A-12C	FDOT MAST ARM ASSEMBLY INDEX 17745
H	HISTORICAL PLAN SHEET COVER
H1	FP ID 195403-1-52-01 SHEET# 108, SIGNAL PLAN
H2	FP ID 195403-1-52-01 SHEET# 120, REPORT OF SPT BORINGS FOR STRUCTURE
H3	FP ID 195403-1-52-01 SHEET# 151, COMMUNICATIONS CABLE ROUTING PLAN
H4	FP ID 195403-1-52-01 SHEET# 128, MAST ARM DETAIL AND SCHEDULE



**INTERSECTION LOCATION**  
 INTERSECTION No. 246  
 STATE ROAD No. 90 AND  
 STATE ROAD No. 45  
 AT FOUR CORNERS  
 M.P. 12.038  
 SIGNAL ID: 246



Note: AT LEAST 72 HOURS IN ADVANCE OF BEGINNING CONSTRUCTION OF THE PROJECT, THE CONTRACTOR SHALL CONTACT THE LOCAL MAINTENANCE FDOT ENGINEER'S OFFICE TO SECURE GENERAL USE PERMITS AND/OR OTHER PERMITS AS REQUIRED FOR WORKING WITHIN THE DEPARTMENT'S RIGHT-OF-WAY.

THESE PLANS HAVE BEEN PREPARED IN ACCORDANCE WITH AND ARE GOVERNED BY THE STATE OF FLORIDA DEPARTMENT OF TRANSPORTATION, STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION (DATED 2010) AND DESIGN STANDARDS BOOKLET (DATED 2012/2013).

APPLICABLE DESIGN STANDARDS MODIFICATIONS: 2012 FOR DESIGN STANDARDS MODIFICATIONS, CLICK ON "DESIGN STANDARDS" AT THE FOLLOWING WEBSITE: <http://www.dot.state.fl.us/rddesign>

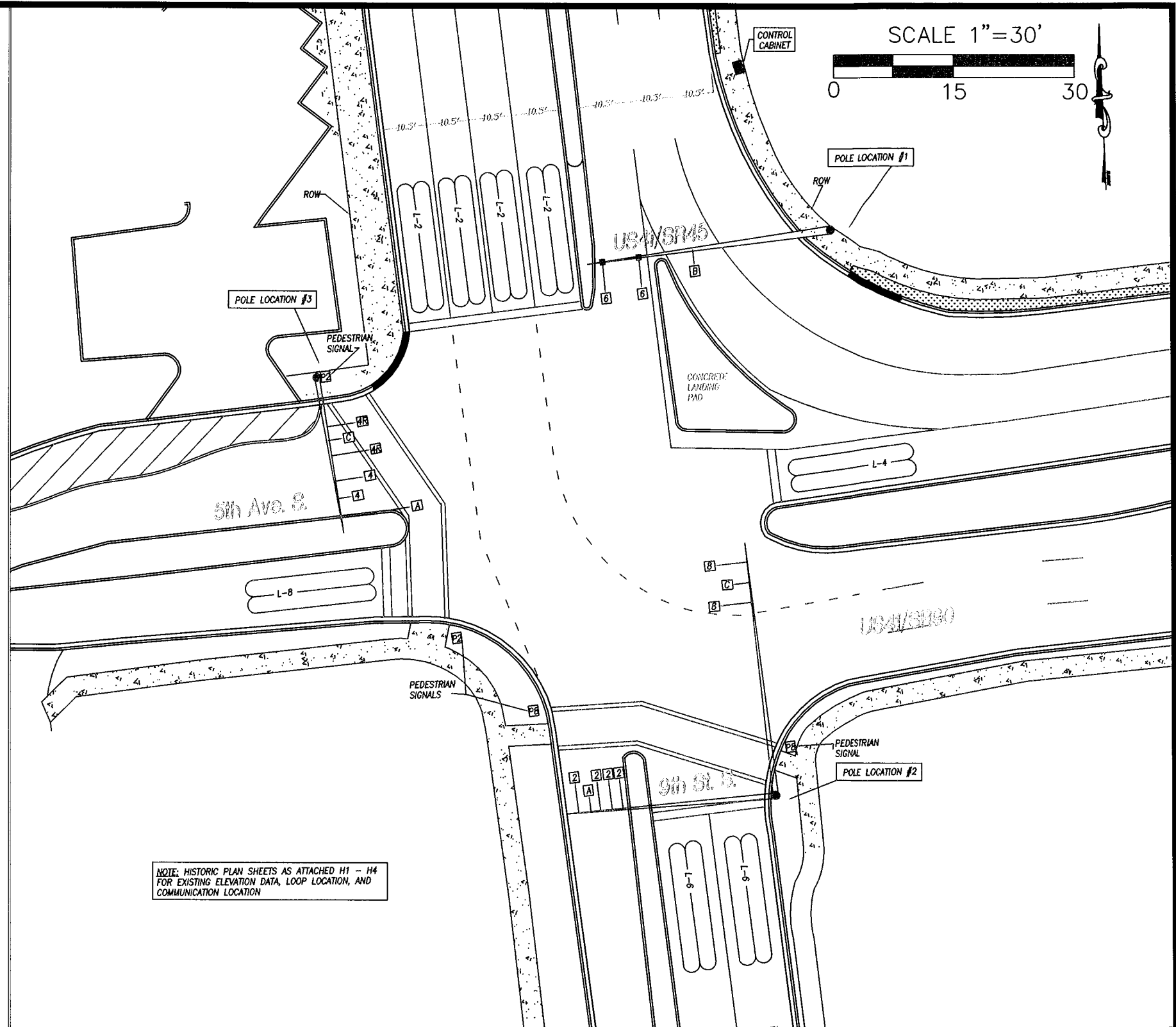
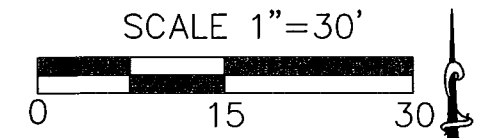
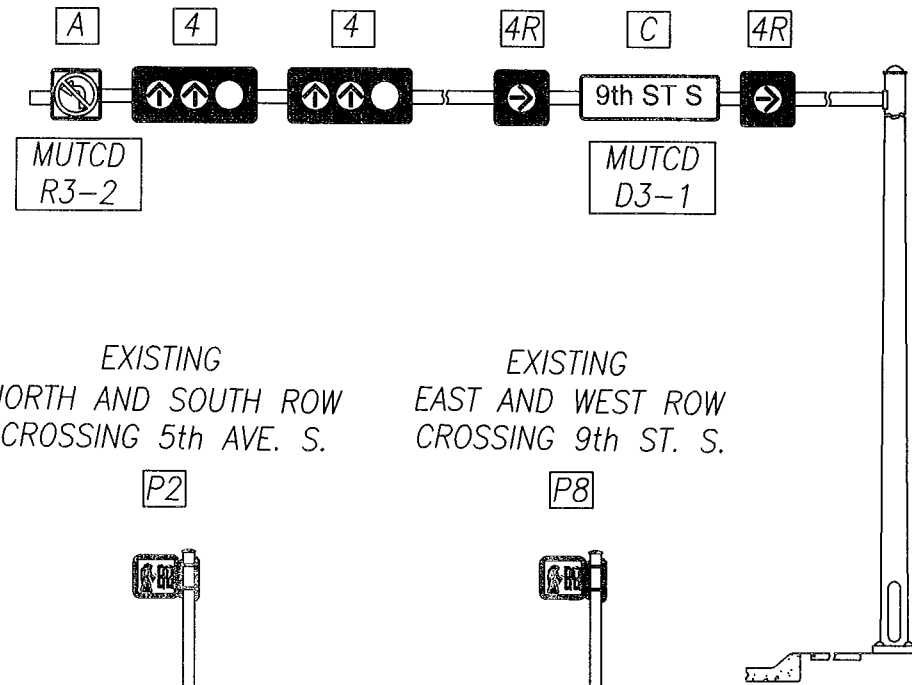
LENGTH OF PROJECT		
	LINEAR FEET	MILES
ROADWAY	500.00	0.09
BRIDGES	0.00	0.00
NET LENGTH OF PROJECT	500.00	0.09
EXCEPTIONS	0.00	0.00
GROSS LENGTH OF PROJECT	500.00	0.09

CITY OF NAPLES PROJECT MANAGER: GEORGE ARCHIBALD, P.E.

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

SIGNALIZATION PLANS  
 ENGINEER OF RECORD: GEORGE ARCHIBALD, P.E.  
 P.E. No. 13706

EXISTING  
NW CORNER OF INTERSECTION  
WESTBOUND MAST ARM  
(POLE LOCATION No.3)



REVISIONS	
DATE	DESCRIPTION
Jun. 7, 2012	Corrected lane line marking.
Jul. 27, 2012	Added scale, pole location and identified ROW.

DRAWN BY: C.VARGA, 02/23/2012

**City of Naples**  
STREETS AND STORMWATER DEPARTMENT

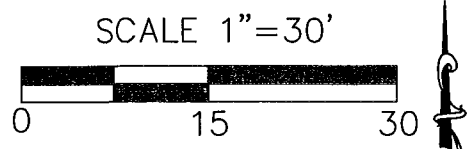
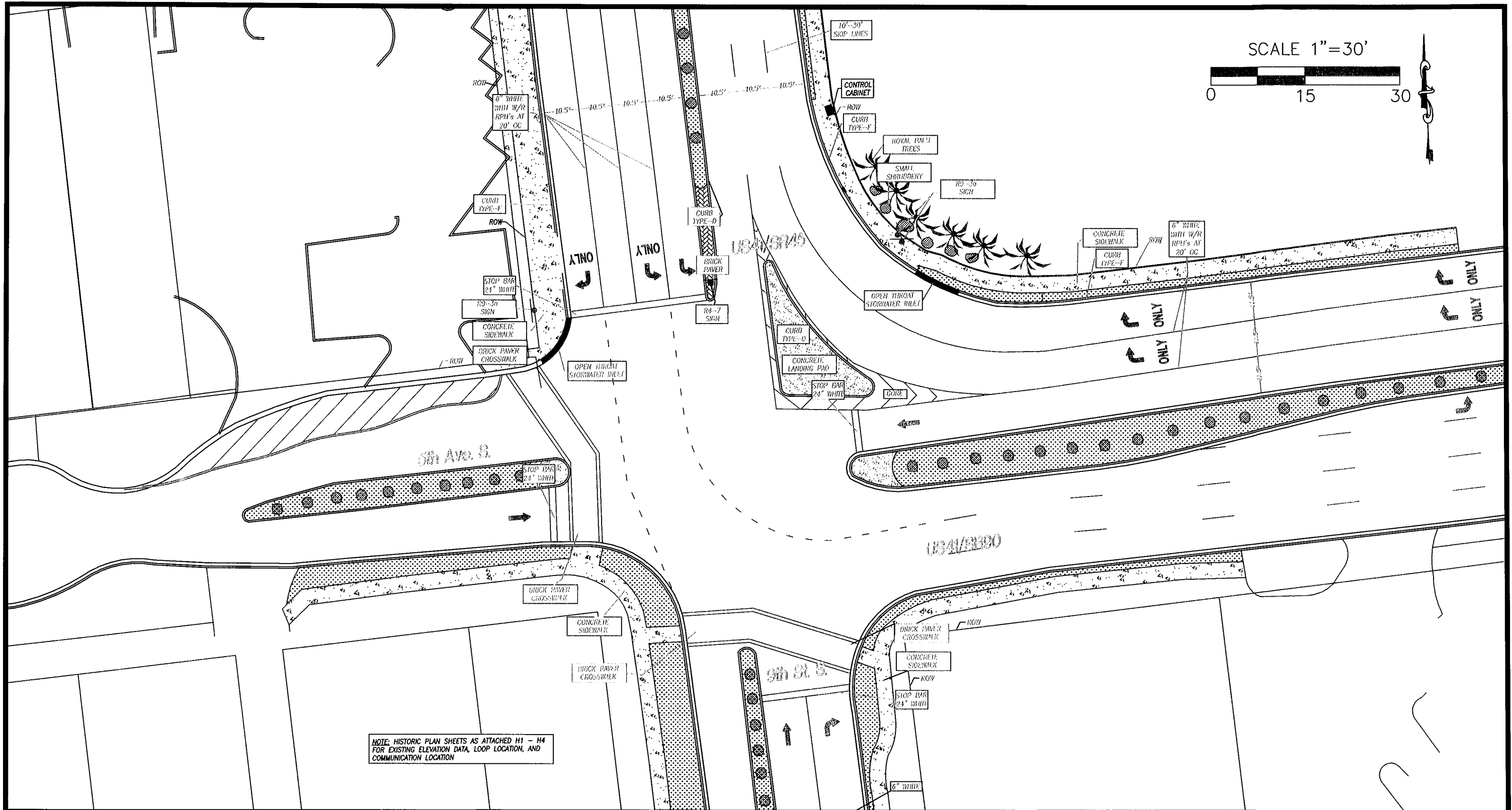


296 RIVERSIDE CIRCLE  
NAPLES, FL 34102

**STATE ROAD No.90 (U.S.41) AND STATE ROAD No. 45**  
**AT FOUR CORNERS INTERSECTION**

**EXISTING SIGNALIZATION AND POLE LOCATION**


SHEET  
No.  
  
2



NOTE: HISTORIC PLAN SHEETS AS ATTACHED H1 - H4 FOR EXISTING ELEVATION DATA, LOOP LOCATION, AND COMMUNICATION LOCATION

REVISIONS	
DATE	DESCRIPTION
Jun. 7, 2012	Revised to grey scale and corrected SB markings.
Jul. 27, 2012	Added scale.
DRAWN BY: C.VARGA, 02/23/2012	

**City of Naples**  
STREETS AND STORMWATER DEPARTMENT



295 RIVERSIDE CIRCLE  
NAPLES, FL 34102

**STATE ROAD No.90 (U.S.41) AND STATE ROAD No. 45  
AT FOUR CORNERS INTERSECTION**

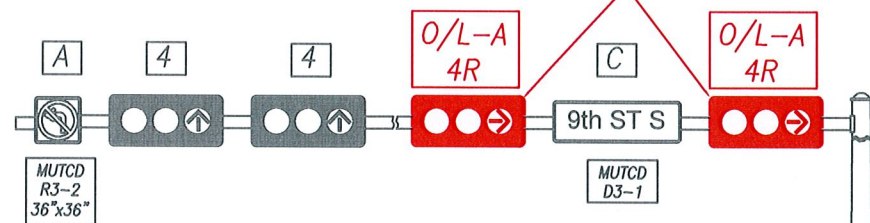
**EXISTING SIGNING AND PAVEMENT MARKING**

SHEET No.	3
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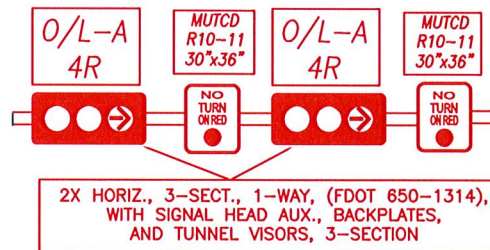


NW CORNER OF INTERSECTION  
EXIST. ARM / POLE LOCATION No. 3  
PROPOSED SIGNAL PHASE (OVERLAP)  
AND SIGNAL HEADS

2x FDOT 650-1314 HORIZ., 3-SECT., 1-WAY. SIGNAL HEADS  
WITH SIGNAL HEAD AUXILIARIES, AND BACKPLATES AND TUNNEL VISORS



NE CORNER OF INTERSECTION  
SUPPLEMENTAL MAST ARM / POLE LOCATION No. 1A  
PROPOSED UPRIGHT WITH PROPOSED SIGNALIZATION

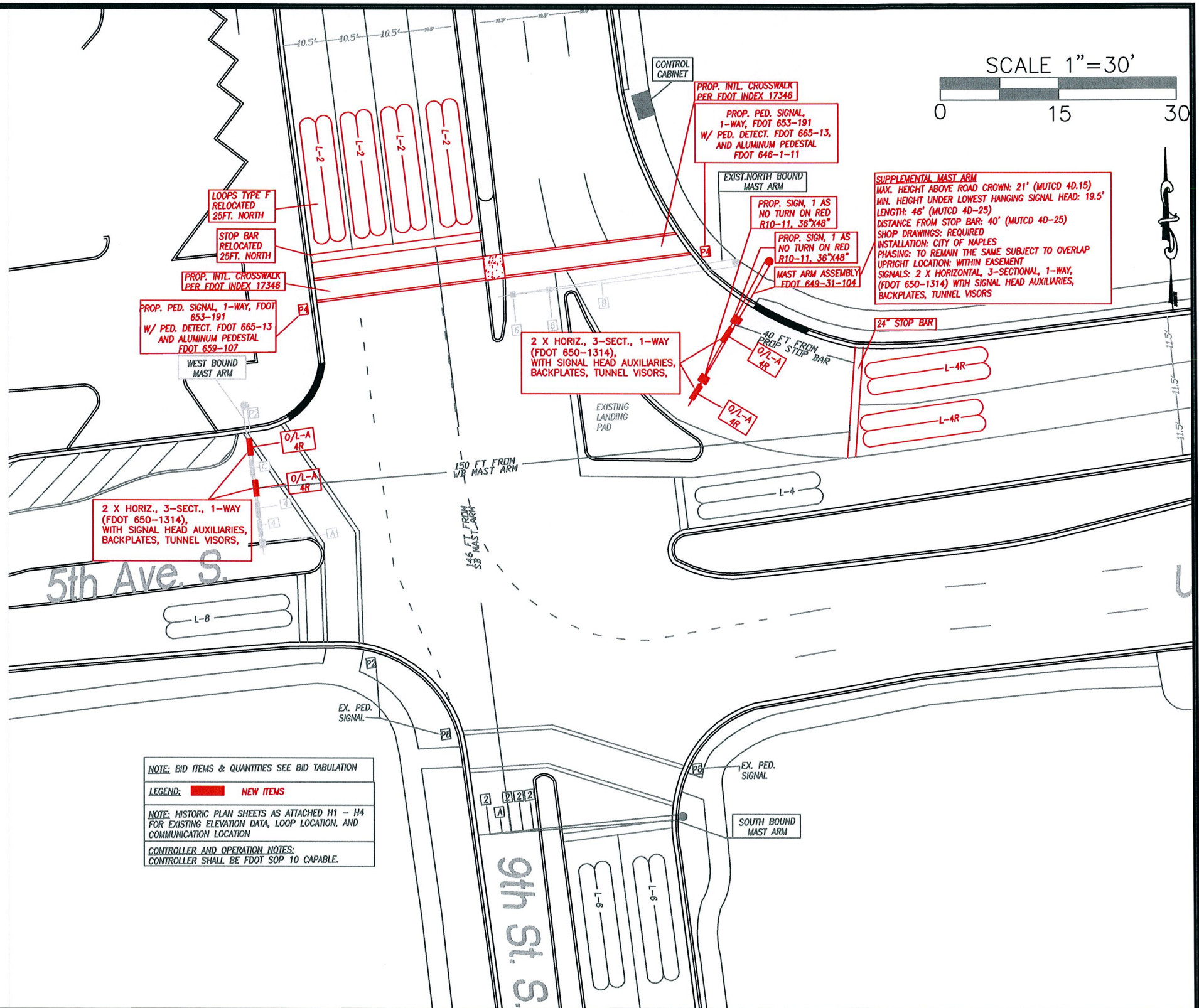


PROPOSED PEDESTRIAN SIGNAL  
EAST AND WEST ROW  
CROSSING US 41

PROP. PED. SIGNAL, INTL., 1-WAY, (FDOT 653-191)  
W/ PED. DETECT. (FDOT 665-13)  
AND ALUMINUM PEDESTAL (FDOT 659-107)



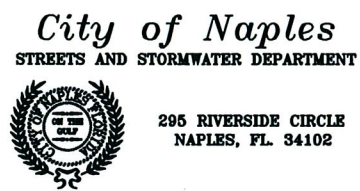
SEE SHEET 5C FOR  
STRUCTURE SELECTION



NOTE: BID ITEMS & QUANTITIES SEE BID TABULATION  
LEGEND: ■ NEW ITEMS  
NOTE: HISTORIC PLAN SHEETS AS ATTACHED H1 - H4  
FOR EXISTING ELEVATION DATA, LOOP LOCATION, AND  
COMMUNICATION LOCATION  
CONTROLLER AND OPERATION NOTES:  
CONTROLLER SHALL BE FDOT SOP 10 CAPABLE.

REVISIONS	
DATE	DESCRIPTION
Jun. 7, 2012	Added legend and corrected phasing notation.
Jul. 27, 2012	Added legend and signal head notes.

DRAWN BY: C.VARGA, 02/23/2012



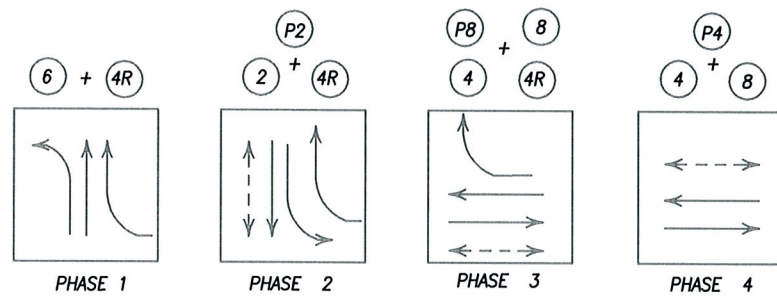
STATE ROAD No.90 (U.S.41) AND STATE ROAD No. 45  
AT FOUR CORNERS INTERSECTION

PROPOSED SIGNALIZATION

SHEET  
No.

5A

**SPECIAL S.O.P.**

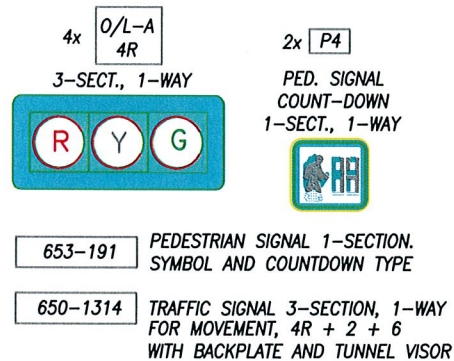


		CONTROLLER TIMINGS			
PHASE No.		1	2	3	4
TIMING FUNCTION	MINIMUM GREEN	10	20	7	7
	EXTENSION	3.0	3.0	3.0	3.0
	MAXIMUM GREEN 1	20	40	20	20
	MAXIMUM GREEN 2	35	75	50	50
	YELLOW CLEARANCE	3.5	3.5	3.5	3.5
	ALL RED	3.6	3.6	3.6	3.6
	PEDESTRIAN WALK		7	7	7
PED. CLEARANCE		18	17	27	
RECALL			MIN	LOCK	

NOTE: EXISTING SIGNAL TIMINGS TO REMAIN WITH PEDESTRIAN TIMINGS ADDED.

DETECTORS FOR LOOPS		
LOOP	No. OF LOOPS	No. NEW DETS.
L-1	0	-
L-2	4	-
L-3	0	-
L-4	1	-
L-4R	2	2
L-5	0	-
L-6	2	-
L-7	0	-
L-8	1	-

**SIGNAL HEAD DETAILS**



**CONTROLLER OPERATIONS:**

MAJOR STREET IS SR 45 - US 41 - SR 90 (TAMIAMI TRAIL), PHASE 2 (MOVEMENTS 2 AND 4R), AND MINOR STREET IS 5TH AVENUE SOUTH, PHASE 3 (MOVEMENTS 4 AND 8).

SPECIAL SIGNAL OPERATING PLAN SPECIAL (TO BE WIRED AS AN SOP 10) WITH THE FOLLOWING:

- (A) COORDINATION ON PHASE 2 (MOVEMENTS 2 AND 4R) WITH BACK-UP TIME-BASE COORDINATION. SIGNAL IS COORDINATED WITH 3rd AVENUE SOUTH TO THE NORTH AND 10th STREET SOUTH TO THE EAST.
- (B) CONCURRENT/ACTUATED PEDESTRIAN FOR MOVEMENTS 2 (P2), 4 (P4), AND 8 (P8).

**REVISIONS**

DATE	DESCRIPTION
Jun. 7, 2012	Added legend and signal SOP.
Jul. 27, 2012	Added legend, revised signal head pay item number, added SOP and controller notes.

DRAWN BY: C.VARGA, 02/23/2012

**City of Naples**  
STREETS AND STORMWATER DEPARTMENT



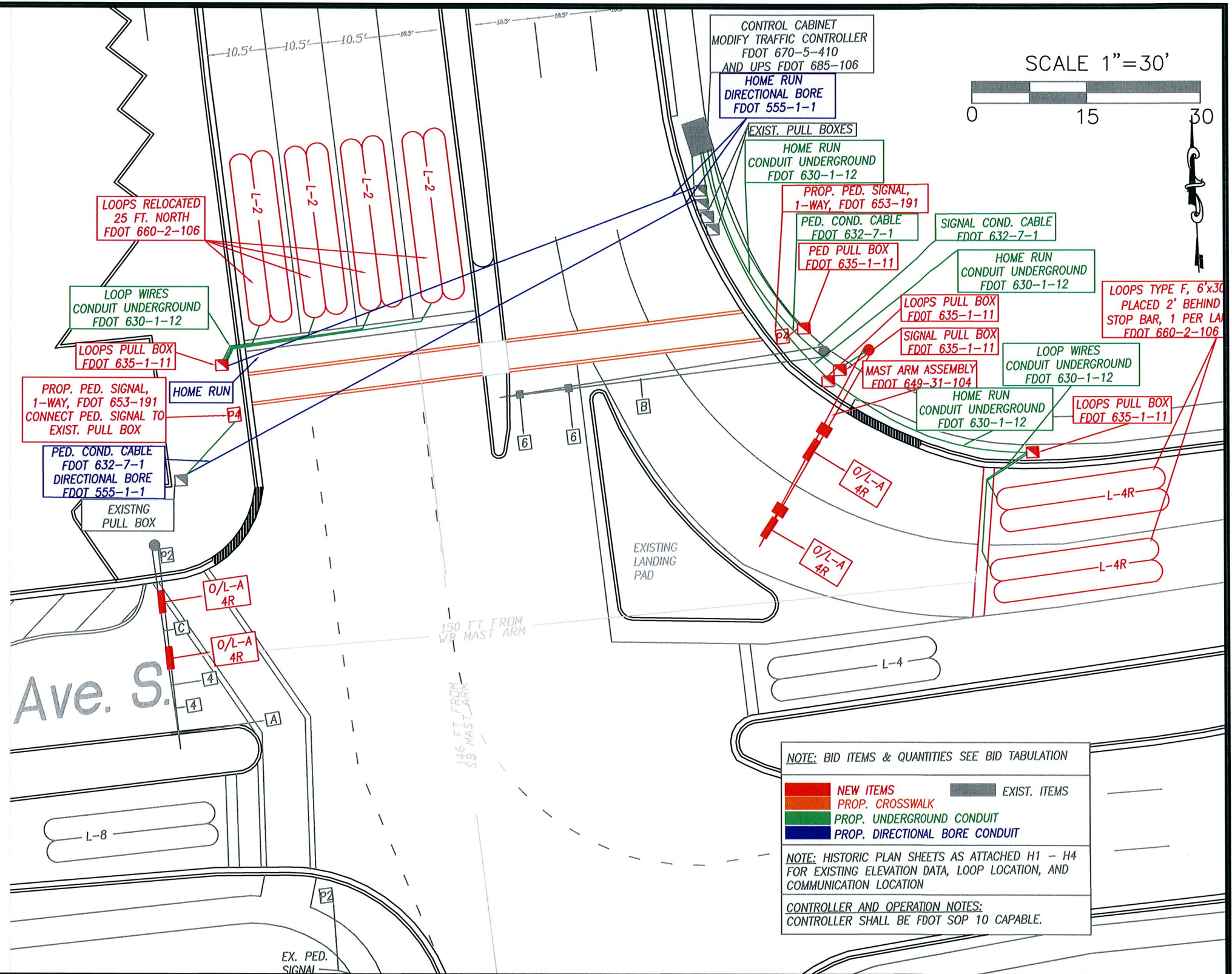
295 RIVERSIDE CIRCLE  
NAPLES, FL 34102

**STATE ROAD No.90 (U.S.41) AND STATE ROAD No. 45  
AT FOUR CORNERS INTERSECTION**

**PROPOSED SOP, SIGNAL, SIGNAL HEAD DETAIL  
AND COMMUNICATION CABLE PLAN**

SHEET No.

5B



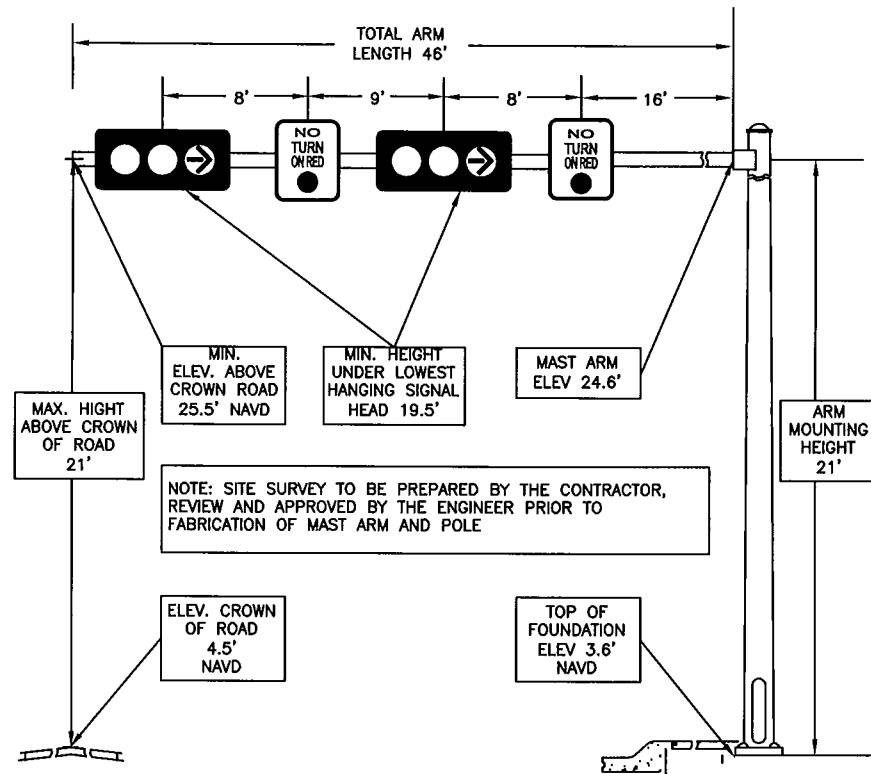
NOTE: BID ITEMS & QUANTITIES SEE BID TABULATION

- NEW ITEMS
- PROP. CROSSWALK
- PROP. UNDERGROUND CONDUIT
- PROP. DIRECTIONAL BORE CONDUIT
- EXIST. ITEMS

NOTE: HISTORIC PLAN SHEETS AS ATTACHED H1 - H4 FOR EXISTING ELEVATION DATA, LOOP LOCATION, AND COMMUNICATION LOCATION

CONTROLLER AND OPERATION NOTES:  
CONTROLLER SHALL BE FDOT SOP 10 CAPABLE.





FOUR CORNERS PEDESTRIAN SIGNAL PROJECT  
S.R.45 AND S.R.90 (FDOT INTERSECTION No.246)

ENGINEERING DESIGN CRITERIA: (REFERENCE FDOT INDEX 17743 AND 17745 AND DESIGN LOADING TREE EXHIBITS ON THIS SHEET)

BENCH MARK: DISK B; ELEV. 3.51 (NAVD '88) LOCATED SOUTHSIDE CURB OF 4th AVE. S. EAST OF U.S. 41

POLE LOCATION #3: EXISTING ARM PER SHEET H1 AND H4, POLE LOCATION No. 3.

MAST ARM CHANGE INVOLVES REMOVAL OF TWO SINGLE-SECTION ASSEMBLIES AND REPLACEMENT WITH TWO THREE-SECTION SIGNAL ASSEMBLIES. PER ATTACHED FDOT PLANS H4, THE ORIGINAL STRUCTURE DESIGN INCLUDED FOUR THREE-SECTION SIGNAL ASSEMBLIES; ADDITIONALLY, SIGNAL AND SIGNAGE SPACING ON THE ARM IS NO FURTHER FROM THE EXISTING POLE THAN THE STANDARD D6 DESIGN LOADING TREE

POLE LOCATION #1A: PROPOSED INTERMEDIATE MAST ARM STRUCTURE

1. SINGLE ARM DESIGNED WITH TWO SIGNAL SECTIONS AND TWO ROADWAY SIGNS, BUT NO STREET NAME SIGNS (PRE-EXISTING).
2. SIGNAL HEADS TO BE THREE-SECTION AND MOUNTED HORIZONTAL, (NOTE: HEIGHT ALLOWANCE FOR OPTIMAL VERTICAL MOUNTING).
3. R10-11 SIGNS TO BE 30"x36" BASED ON THE REDUCED SPEED (30 MPH) AND SIGNAGE PER LANE.
4. ARM TYPE "D" USING 150 MPH DESIGN WIND LOAD.
5. SIGNAL HEAD SPACING AND SIGN SPACING IS NO FURTHER FROM POLE THAN D3 DESIGN LOADING TREE (NOTE: EXTRA LENGTH RECOMMENDED DUE TO SKEW ANGLE OF ARM).
6. NO PEDESTRIAN FACILITIES NOR LUMINAIRES ARE TO BE ATTACHED TO THE POLE.
7. POLE HANDHOLD TO BE STANDARD BUT SKEW ANGLE SHALL BE 45° TO THE WESTBOUND LANE DIRECTION.
8. FOUNDATION AND BASE PLATE ARE BASED ON SOIL BORING NUMBER MA-19 TAKEN JAN. 19, 1999, LOCATED IMMEDIATELY ADJACENT TO THE PROPOSED UPRIGHT FOUNDATION ( REFERENCE: ATTACHED HISTORIC SHEET H3), (NOTE: METRIC DATA) PROVIDES DATA AND SUCH DATA REMAINS VALID FOR CURRENT FOUNDATION DESIGN. RECOMMEND USE OF PRE-DESIGNED FOUNDATION DATA OF COHESIONLESS SOIL, 30° FRICTION ANGLE AND UNIT WEIGHT OF 50 LBS/CF WITH WATER TABLE AS SHOWN ON HISTORICAL DATA SHEET H3.

MAST ARM STRUCTURE SELECTION:

FDOT INDEX 17743 AND 17745 STANDARD MAST ARM TABULATION SHEETS HAVE BEEN COMPLETED AND THE FDOT D3-S2 STANDARD ARM ASSEMBLY SELECTED FOR INSTALLATION AT POLE LOCATION 1A (INTERMEDIATE MAST ARM STRUCTURE). THE STRUCTURE ELEMENTS HAVE BEEN REVIEWED FOR APPLICATION AT POLE LOCATION 1A AND PROVIDED BELOW.

### FDOT STANDARD MAST ARM ASSEMBLIES D3-S2

#### ARM DESIGN

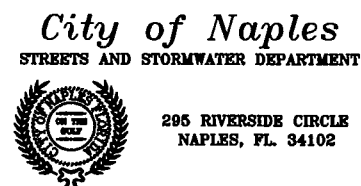
ARM TYPE	ARM LENGTH	MAST ARM				ARM EXTENSION				ARM CONNECTION AND WELDS		
		FA/SA(in)	FB/SB(in)	FC/SC(in)	FD/SD(in)	FE/SE(in)	FF/SF(in)	FG/SG(in)	FH/SH(in)	HT(in)	FJ/SJ(in)	FK/SK(in)
D3	46'-0"	36.3	8.92	14	0.1793	11.7	13.36	15	0.313	20	25	2.5

#### POLE, CONNECTION AND SHAFT DESIGN

POLE TYPE	UA(ft)	UC(ft)	UD(ft)	UE(ft)	UG(ft)	UPRIGHT BASE CONNECTION					CONNECTION PLATE DATA								DRILLED SHAFT DATA						
						No. Bolts	BA (in)	BB (in)	BC (in)	BF (in)	HT (in)	FJ/SJ (in)	FL/SL (in)	FN/SN (in)	FO/SO (in)	FP/SP (in)	FR/SR (in)	FS/SS (in)	FT/ST (in)	DA (ft)	DB (ft)	RA (ft)	RB (ft)	RC (ft)	RD (ft)
S2	24	14.64	18	0.375	-	6	32	2.5	1.75	36	20	25	0.75	0.438	15.5	1	2	8	0.438	12	4.5	11	16	9	12

\*NOTE: POLE AND MAST ARM SELECTION FROM THE 2012/2013 FDOT DESIGN STANDARDS PER FDOT INDEX 17743 AND INDEX 17745

REVISIONS	
DATE	DESCRIPTION
Jul. 27, 2012	Added notes and mast arm and pole dimensions. Revised mast arm tabulation data.
DRAWN BY: C.VARGA, 02/23/2012	



STATE ROAD No.90 (U.S.41) AT FOUR CORNERS

MAST ARM TABULATION AND SELECTION

SHEET No.

5C



**FDOT STANDARD MAST ARM ASSEMBLIES DATA TABLE  
FOR POLE LOCATION No. 1A**

STANDARD MAST ARM ASSEMBLIES DATA TABLE																		Table Date 01-01-12	
STRUCTURE ID NUMBERS	ASSEMBLY NUMBERS <sup>(1)</sup>	FIRST ARM			SECOND ARM			UF (deg)	LL (deg)	POLE				SPECIAL DRILLED SHAFT <sup>(4)</sup>					
		ARM TYPE	FAA <sup>(2)</sup> (ft.)	FBA <sup>(2)</sup> (in.)	ARM TYPE	FAA <sup>(2)</sup> (ft.)	FBA <sup>(2)</sup> (in.)			POLE TYPE	UAA <sup>(3)</sup> (ft.)	UB (ft.)	UCA <sup>(3)</sup> (in.)	DA (ft.)	DB (ft.)	RA	RB	RC	RD (in.)
1A	D3-S2	D3	-	-	-	-	-			S2	-	-	-	-	-	-	-	-	

REVISIONS	
DATE	DESCRIPTION

DRAWN BY: C.VARGA, 02/23/2012

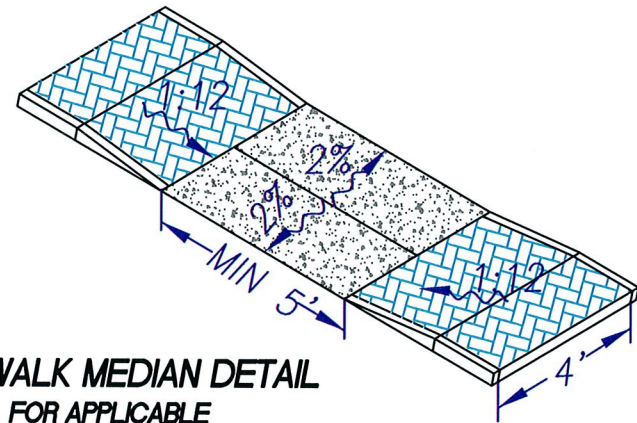
**City of Naples**  
 STREETS AND STORMWATER DEPARTMENT  
  
 295 RIVERSIDE CIRCLE  
 NAPLES, FL 34102

**STATE ROAD No.90 (U.S.41) AT FOUR CORNERS**  
  
**FDOT STANDARD MAST ARM ASSEMBLIES DATA TABLE**  
**FOR POLE LOCATION No. 1A**

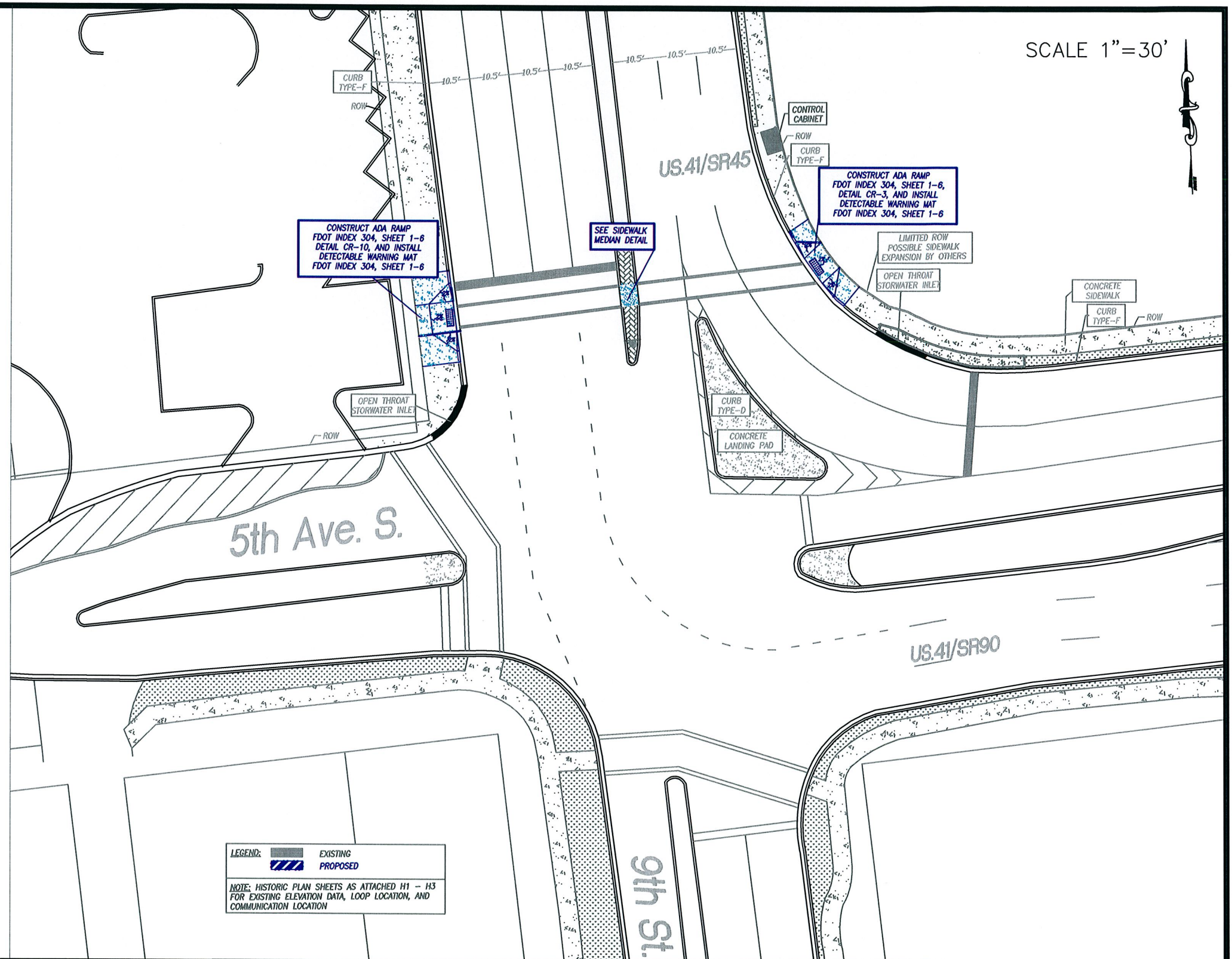
SHEET No.
5E



SCALE 1"=30'



**SIDEWALK MEDIAN DETAIL**  
FOR APPLICABLE  
CONSTRUCTION DETAILS  
SEE FDOT INDEX 304



**LEGEND:** EXISTING  
 PROPOSED

**NOTE:** HISTORIC PLAN SHEETS AS ATTACHED H1 - H3 FOR EXISTING ELEVATION DATA, LOOP LOCATION, AND COMMUNICATION LOCATION

REVISIONS	
DATE	DESCRIPTION
Jun. 7, 2012	Added legend.

DRAWN BY: C.VARGA, 02/23/2012

**City of Naples**  
 STREETS AND STORMWATER DEPARTMENT  
  
 295 RIVERSIDE CIRCLE  
 NAPLES, FL. 34102

**STATE ROAD No.90 (U.S.41) AND STATE ROAD No. 45**  
**AT FOUR CORNERS INTERSECTION**  
  
**PROPOSED ADA SIDEWALK PLAN**

SHEET No.	7
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PROPOSAL SUMMARY OF PAY ITEMS

SIGNAL SYSTEM PAY ITEMS NOTES

Item	Description	FDOT Pay-Item No.	QTY.	UNIT
<b>BASE BID ITEMS</b>				
1	Mobilization	101-1	1	LS
2	Maintenance of Traffic	102-1	1	LS
3	Clearing and Grubbing (Special)	110-2-1 (Special)	1	LS
	Removal of items identified in the Demolition Plan			
4	Removal of items identified in the Demolition Plan (Special)	110-4 (Special)	1	LS
	Concrete Curb, Sidewalk, Brick as identified in the Demo Plan			
5	Concrete Sidewalk (4" Thick)	522-1	42	SY
6	Detectible Warning On Walking Surface (Install)	527-1	2	EA
7	Directional Bore, Less than 6" diameter.	555-1-1	240	LF
8	Conduit (Furnish and Install) (Underground)	630-1-12	225	LF
9	Cable Signal (F&I), (Pedestrian and New Arm), (LED)	632-7-1	1	PI
10	Pull and Junction Boxes, (Pull Box)	635-1-11	5	EA
11	Aluminum Pedestal	646-1-11	2	EA
12	Mast Arm (Furnish and Install/High Loading)	649-31-104	1	EA
	Mast Arm Painting incidental to this Pay Item.			
13	Refer to color identified in the specification clarification 649-4.3			
13	Traffic Signal, F&I, 3 Section, 1 Way, Standard (Install)	650-1-314	4	AS
14	Pedestrian Signal (F&I), LED Countdown, One Way	653-191	2	AS
15	Loop Type F	660-2-106	6	EA
16	Pedestrian Detector	665-13	2	EA
17	Modify Traffic Controller	670-5-410	1	AS
18	Uninterrupted Power Supply (UPS)	685-106	1	EA
19	Signal Head assembly removal	690-10	2	EA
20	Sign Single Post (<12') (F&I)	700-20-11	3	AS
21	Sign Single Post (<12') (Relocate)	700-20-40	3	AS
22	Sign Single Post (<12') (Remove)	700-20-60	1	AS
23	Sign Panel (<12') (F&I) (Per Call Outs on Sheet 6)	700-48-18	5	AS
24	Directional Arrow (White) (Thermoplastic)	710-11-170	5	EA
25	Pavement Message Removal	710-17	50	SF
26	Pavement Directional Arrow Removal	710-17	75	SF
27	Pavement Markings Removal 6"	710-17	75	LF
28	Pavement Markings Removal 24"	710-17	45	LF
29	Solid Traffic Stripe (24" White) (Thermoplastic)	711-11-125	70	LF
30	Pavement Message (White) (Thermoplastic)	711-11-160	4	EA
31	Median Separation Special (Removal/Replacement), match existing curb and gutter		1	LS
32	Landscape Restoration, in accordance w/ FDOT Section 580		1	LS
33	Site Irrigation, in accordance with FDOT Section 983		1	LS
34	Initial Contingency Amount (Do Not Bid)	999-25	1	LS

- PAY ITEMS 555-1-2/630-1-12/630-1-13:
  - IN LIEU OF THE INSTALLATION OF NEW CONDUIT, EXISTING CONDUIT (IF NOT DAMAGED) MAY BE RE-USED AS DIRECTED BY THE PROJECT MANAGER.
  - ALL CONDUIT FOR THE PROJECT SHALL BE A MINIMUM OF 2" DIAMETER PVC (SCHEDULE 40 OR 80 AS DIRECTED BY THE PROJECT MANAGER).
  - COAT ALL METAL FITTING THREADS WITH ANTI-SEIZE LUBRICANT.
- PAY ITEM 632-7-11:
  - THE CITY OF NAPLES SHALL BE CONTACTED TO DETERMINE COLOR CODE OF SIGNAL CABLE.
- PAY ITEM 635-1-11:
  - PULL BOXES SHALL BE PLACED BEHIND CURBS AND GUTTERS.
  - USE OF POLYMER CONCRETE CONSTRUCTION PULL BOXES (STANDARD), ARE TO BE A MINIMUM OF 17" X 30" X 12".
  - IN LIEU OF THE INSTALLATION OF NEW PULL BOXES, EXISTING BOXES (IF NOT DAMAGED), MAY BE RE-USED AS DIRECTED BY THE PROJECT MANAGER.
- PAY ITEM 646-1-11:
  - USE LOCKING COLLARS WHEN MOUNTING PEDESTRIAN SIGNAL HEADS TO PEDESTRIAN PEDESTALS AND WHEN MOUNTING ALUMINUM PEDESTRIAN POLES TO PEDESTRIAN PEDESTAL BASES.
  - USE BREAKAWAY ALUMINUM SQUARE BASE ASSEMBLIES WITH ALUMINUM DOORS FOR PEDESTRIAN PEDESTALS. INSIDE DIAMETER OF PEDESTALS SHALL BE FOUR INCHES.
- PAY ITEM 650-1-314:
  - USE SIGNAL HEAD HORIZONTAL SUPPORTS THAT ARE CAPABLE OF ADJUSTING VERTICALLY.
  - USE LOUVERED ALUMINUM SIGNAL HEAD BACK PLATES WITH A 2" YELLOW REFLECTORIZED (TYPE III REFLECTIVITY) OUTER EDGE
- PAY ITEM 653-191:
  - PEDESTRIAN SIGNAL HEADS TO BE 16" INTERNATIONAL SYMBOL, LED COUNTDOWN TYPE.
- PAY ITEM 660-2-106:
  - PERMANENTLY MARK EACH LOOP PER PHASE AND PER VEHICLE MOVEMENT AT EACH SPLICE POINT AND THE CABINET TERMINATION POINT.
  - FOR INCREASED SENSITIVITY, INDUCTANCE LOOPS TO HAVE A MINIMUM OF THREE TURNS OF WIRE.
- PAY ITEM 665-13:
  - USE PEDESTRIAN BUTTON SIGNAL SIGN FTP-68B-06. STREET NAME SHALL BE IN ACCORDANCE WITH THE STREET NAME SHOWN ON THE SIGNALIZATION PLAN SHEETS.
- PAY ITEM 670-5-410:
  - MODIFY EXISTING SIGNAL CONTROLLER AND PERFORM ANY CABINET AND FIELD WIRING NECESSARY TO PROVIDE A COMPLETE AND FUNCTIONING SYSTEM.
  - CORE DRILL EXISTING CONTROLLER CABINET BASE AND INSTALL NEW CONDUITS IF SPARE CONDUIT STUB-OUTS CANNOT BE USED. INSTALL NEW CONDUITS INTO THE EXISTING FOUNDATION AS REQUIRED IN PLANS. WHEN ADDITIONAL CONDUITS ARE REQUIRED, THE CONDUIT SHALL BE A MINIMUM OF 3" IN DIAMETER UNLESS SITE CONSTRAINTS ONLY ALLOW A 2" CONDUIT. LOCATE NEW CONDUITS SO THEY WILL NOT OBSTRUCT THE MAINTENANCE OF EQUIPMENT IN THE CABINET OR THE ANCHORING OF THE CABINET FLANGE TO THE CONCRETE FOUNDATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING INTERNAL CABINET AND EQUIPMENT FROM DUST AND DEBRIS CAUSED BY CORE DRILLING.
- PAY ITEM 685-106:
 

INCLUDE AN UNITERUPTED POWER SUPPLY UNIT (UPS) WITH AN 8 HOUR RUN TIME AT 450 WATTS. ATTACH UPS UNIT TO THE OUTSIDE OF THE CONTROLLER CABINET. INSTALL UPS UNIT IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFICATIONS. UPS EQUIPMENT TO BE COMPATIBLE WITH MAINTAINING AGENCY EXISTING SYSTEM.

REVISIONS

DATE	DESCRIPTION
Jun. 7, 2012	Revised pay items and format.
Jul. 27, 2012	Updated pay items numbers and notes.

DRAWN BY: C.VARGA, 02/23/2012

City of Naples  
STREETS AND STORMWATER DEPARTMENT



295 RIVERSIDE CIRCLE  
NAPLES, FL 34102

STATE ROAD No.90 (U.S.41) AND STATE ROAD No. 45  
AT FOUR CORNERS INTERSECTION

PROPOSAL SUMMARY OF PAY ITEMS  
AND SIGNAL SYSTEM PAY ITEMS NOTES

SHEET  
No.

8

**GENERAL NOTES**

PAY ITEM NUMBERS ARE PROVIDED ONLY FOR THE PURPOSE OF DESCRIBING THE WORK TO BE PERFORMED.  
 PAY ITEM DESCRIPTIONS ARE FOUND IN THE DEPARTMENT'S BASIS OF ESTIMATES MANUAL.

GENERAL NOTES:

1. CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND ELEVATIONS PRIOR TO COMMENCEMENT OF CONSTRUCTION. ANY DEVIATION IN PLAN INFORMATION SHALL BE REPORTED TO THE ENGINEER AND OWNER'S REPRESENTATIVE IMMEDIATELY.
2. CONTRACTOR IS REQUIRED TO OBTAIN FROM THE ENGINEER WRITTEN APPROVAL FOR ANY DEVIATIONS FROM THE PLANS AND/OR SPECIFICATIONS.
3. CITY OF NAPLES, FLORIDA POWER AND LIGHT, EMBARQ TELEPHONE SERVICE, AND CATV MAY HAVE EXISTING UTILITIES ADJACENT TO/WITHIN THE PROPOSED CONSTRUCTION. CONTRACTOR SHALL CONTACT THE RESPECTIVE UTILITIES TO LOCATE AND RELOCATE THEIR FACILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION.
4. THE CONTRACTOR IS ADVISED THAT PROPERTIES ADJACENT TO THE PROJECT MAY HAVE ELECTRIC, TELEPHONE, WATER AND/OR SEWER SERVICE LINES WHICH MAY NOT BE SHOWN IN THE PLANS. CONTRACTOR SHALL CONTACT THE RESPECTIVE UTILITIES TO LOCATE AND RELOCATE THEIR FACILITIES PRIOR TO COMMENCEMENT OF CONSTRUCTION. THE ADDITIONAL COST OF EXCAVATING, INSTALLING, BACKFILLING AND COMPACTING AROUND THESE SERVICES SHALL BE INCLUDED IN THE RELATED BID ITEM FOR THE WORK BEING DONE.
5. CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING TRAFFIC AND USAGE OF THE EXISTING STREETS ADJACENT TO THE PROJECT. ALL TRAFFIC MAINTENANCE CONTROL SHALL BE IN ACCORDANCE WITH FLORIDA MANUAL OF TRAFFIC CONTROL AND SAFE PRACTICES FOR STREET CONSTRUCTION, MAINTENANCE, AND UTILITY OPERATIONS. TRAFFIC CONTROL OPERATION PROCEDURES SHALL BE SUBMITTED TO ENGINEER FOR APPROVAL PRIOR TO BEGINNING CONSTRUCTION.
6. PRECONSTRUCTION MEETINGS SHALL TAKE PLACE WITH APPLICABLE CITY OF NAPLES STAFF PRIOR TO THE START OF CONSTRUCTION.
7. ALL EXISTING UNDERGROUND UTILITIES ARE BASED ON AVAILABLE RECORD DRAWING INFORMATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO LOCATE APPROPRIATE EXISTING UTILITIES AND REPORT DISCREPANCIES TO THE ENGINEER IMMEDIATELY.
8. THE REVIEW AND APPROVAL OF IMPROVEMENT PLANS DOES NOT AUTHORIZE THE CONSTRUCTION OF REQUIRED IMPROVEMENTS WHICH ARE INCONSISTENT WITH EXISTING EASEMENTS OF RECORD.
9. STATIONS AND OFFSETS ARE FROM THE CENTERLINE OF CONSTRUCTION, UNLESS OTHERWISE NOTED.
10. THE CONTRACTOR IS TO USE CAUTION WHEN WORKING IN OR AROUND AREAS OF EXISTING LOOP AND LEAD-IN WIRES, TRANSMISSION LINES, UNDERGROUND UTILITIES AND OVERHEAD UTILITIES.
11. THE CONTRACTOR SHALL CALL UNDERGROUND CABLE LOCATING SERVICES FOR FIELD LOCATIONS AT LEAST 48 HOURS BEFORE DIGGING.
12. EXISTING SECTION CORNERS AND ¼ SECTION CORNERS, AND OTHER LAND MARKERS OR MONUMENTS LOCATED WITHIN PROPOSED CONSTRUCTION SHALL BE REFERENCED BY THE CONTRACTOR PRIOR TO CONSTRUCTION AND RESET AFTER CONSTRUCTION BY THE CONTRACTOR. THIS WORK SHALL BE PERFORMED BY A PROFESSIONAL LAND SURVEYOR REGISTERED IN THE STATE OF FLORIDA ENGAGED BY THE CONTRACTOR.
13. CONTRACTOR SHALL PROVIDE ACCESS WHENEVER CONSTRUCTION INTERFERES WITH THE EXISTING MEANS OF ACCESS. THE CONTRACTOR SHALL NOTIFY PROPERTY OWNERS/TENANTS 48 HOURS IN ADVANCE OF ANY ACCESS CHANGES. CONSTRUCT TURNOUTS AND DRIVEWAY ACCESS CONNECTIONS IN ACCORDANCE WITH APPLICABLE FDOT ROADWAY AND TRAFFIC DESIGN STANDARDS. ADDITIONAL DRIVEWAY AND SITE TRANSITION LENGTH (THAT MAY NOT BE DEPICTED ON THE PLANS) WILL BE COORDINATED WITH PROPERTY OWNERS FOR RIGHT OF ENTRY, AS APPLICABLE. THIS WILL BE COORDINATED WITH THE CONTRACTOR, ENGINEER AND APPLICABLE PROPERTY OWNER.
14. ALL EXCESS MATERIAL IS TO BE DISPOSED OF BY THE CONTRACTOR IN APPROVED AREAS PROVIDED BY THE CONTRACTOR WITHIN 72 HOURS OF BEING DEPOSITED IN THE CONSTRUCTION SITE AND AT THE CONTRACTOR'S EXPENSE. DO NOT DEPOSIT MATERIALS ONTO ADJACENT PROPERTIES.
15. USE OF A STREET SWEEPER (USING WATER) OR OTHER EQUIPMENT CAPABLE OF CONTROLLING AND REMOVING DUST SHALL BE UTILIZED. APPROVAL OF THE USE OF SUCH EQUIPMENT IS CONTINGENT UPON ITS DEMONSTRATED ABILITY TO DO THE WORK.
16. IF SHEETING, SHORING OR DEWATERING, INCLUDING WELL POINTS ARE NECESSARY, MONITOR AND CONTROL ALL WORK THAT MAY CAUSE CRACKING TO ANY ADJACENT STRUCTURE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGES CAUSED BY THESE OPERATIONS. COST OF SHEETING, SHORING, OR DEWATERING, INCLUDING WELL POINTS, AND ALL MONITORING COSTS SHALL BE INCLUDED IN THE RELATED PAY ITEMS FOR THE WORK BEING DONE.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING THE DEWATERING PERMIT, IF REQUIRED AND THE COST SHALL BE INCLUDED IN THE RELATED PAY ITEMS FOR THE WORK BEING DONE.
18. THE CONTRACTOR SHALL PROTECT EXISTING AND NEW INLETS FROM PAVEMENT MATERIAL, LIMEROCK, DEBRIS, ETC. DURING CONSTRUCTION AND AT NO ADDITIONAL EXPENSE TO THE OWNER. THIS INCLUDES DRAINAGE INLETS/GRATES AND SWALES LOCATED ON ADJACENT PROPERTIES.

**TRAFFIC OPERATION NOTES**

TRAFFIC OPERATIONS NOTES:

1. BENCH MARK DATUM IS BASED ON NAVD 88.
2. PROJECT ACTIVITY SHALL NOT ADVERSELY IMPACT DRAINAGE STRUCTURES WITHIN THE CONSTRUCTION LIMITS.
3. THE CONTRACTOR SHALL REMAIN RESPONSIBLE FOR SUBSURFACE CONDITIONS TO INCLUDE REMOVAL OF ROCK OR DEBRIS NOT IDENTIFIED IN THE BORING LOGS.
4. THE CITY OF NAPLES PROJECT MANAGER SHALL BE CONTACTED PRIOR TO THE START OF CONSTRUCTION TO COORDINATE ANY IMPACTS RELATIVE TO SIGNAL COMMUNICATIONS, STREET LIGHTING, LANDSCAPING, IRRIGATION AND UTILITIES.
5. CONDUIT INSTALLATIONS AND PULL BOX INSTALLATIONS FOR SIGNALIZATION SHALL BE COORDINATED WITH UTILITY COMPANIES AS DIRECTED BY THE PROJECT MANAGER.
6. THE CITY OF NAPLES IS THE LOCAL MAINTAINING AGENCY FOR SIGNALIZATION WITHIN THE CONSTRUCTION PROJECT LIMITS.
7. A MINIMUM OF TWO DAYS PRIOR NOTICE SHALL BE PROVIDED TO COLLIER COUNTY AND THE FDOT OPERATIONS CENTER AT FORT MYERS.
8. ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
9. CONTRACTOR SHALL COMPLY WITH FDOT LANE CLOSURE RESTRICTIONS.

**CONTACT INFORMATION**

UTILITY OWNERS/AGENCIES:

**METROPOLITAN TELECOM**  
 24017 PRODUCTION CIR.  
 BONITA SPRINGS, FL. 34105  
 CONTACT: MIKE REBER  
 PHONE: 239.325.4105, X 261

**TIME WARNER CABLE OF NAPLES**  
 1610 40th TERRACE S.W.  
 NAPLES, FL. 34116  
 CONTACT: GRANT PATE  
 PHONE: 239.455.2363

**COLLIER COUNTY STAKE AND LOCATE**  
 4420 MERCANTILE AVE.  
 NAPLES, FL. 34104  
 CONTACT: STEVE SARABIA  
 PHONE: 239.252.5924

**TECO PEOPLE GAS**  
 5101 NW 21st AVE., STE# 460  
 FORT LAUDERDALE, FL. 33309  
 CONTACT: IVONE GOLDMAN  
 PHONE: 954.453.0824

**COMCAST**  
 12641 CORPORATE LAKES DR.  
 FORT MYERS, FL. 33913  
 CONTACT: WILLIAM STANTON  
 PHONE: 239.432.1861

**CENTURY LINK**  
 3940 PROSPECT AVE, STE#101  
 NAPLES, FL. 34104  
 CONTACT: BRIAN WHALEY  
 PHONE: 239.263.6276

**CITY OF NAPLES**  
 STREETS AND TRAFFIC  
 295 RIVERSIDE CIRCLE  
 NAPLES, FL. 34102  
 CONTACT: GEORGE ARCHIBALD  
 PHONE: 239.213.5004

**COLLIER COUNTY**  
 TRAFFIC OPERATIONS  
 4800 DAVIS BLVD.  
 NAPLES, FL. 34104  
 CONTACT: TRUDY RAMIREZ  
 PHONE: 239.252.8924 X5200


**CITY OF NAPLES**  
 UTILITY DEPARTMENT  
 380 RIVERSIDE CIRCLE  
 NAPLES, FL. 34102  
 CONTACT: ALICIA ACEVEDO  
 PHONE: 239.213.4712

**CITY OF NAPLES**  
 STREETS AND TRAFFIC DEPARTMENT  
 295 RIVERSIDE CIRCLE  
 NAPLES, FL. 34102  
 CONTACT: MACK SMITH  
 PHONE: 239.213.5014



REVISIONS	
DATE	DESCRIPTION
Jun. 7, 2012	Revised notes on pages 4 and 6.
Jul. 27, 2012	Revised notes.
DRAWN BY: C.VARGA, 02/23/2012	

**City of Naples**  
 STREETS AND STORMWATER DEPARTMENT

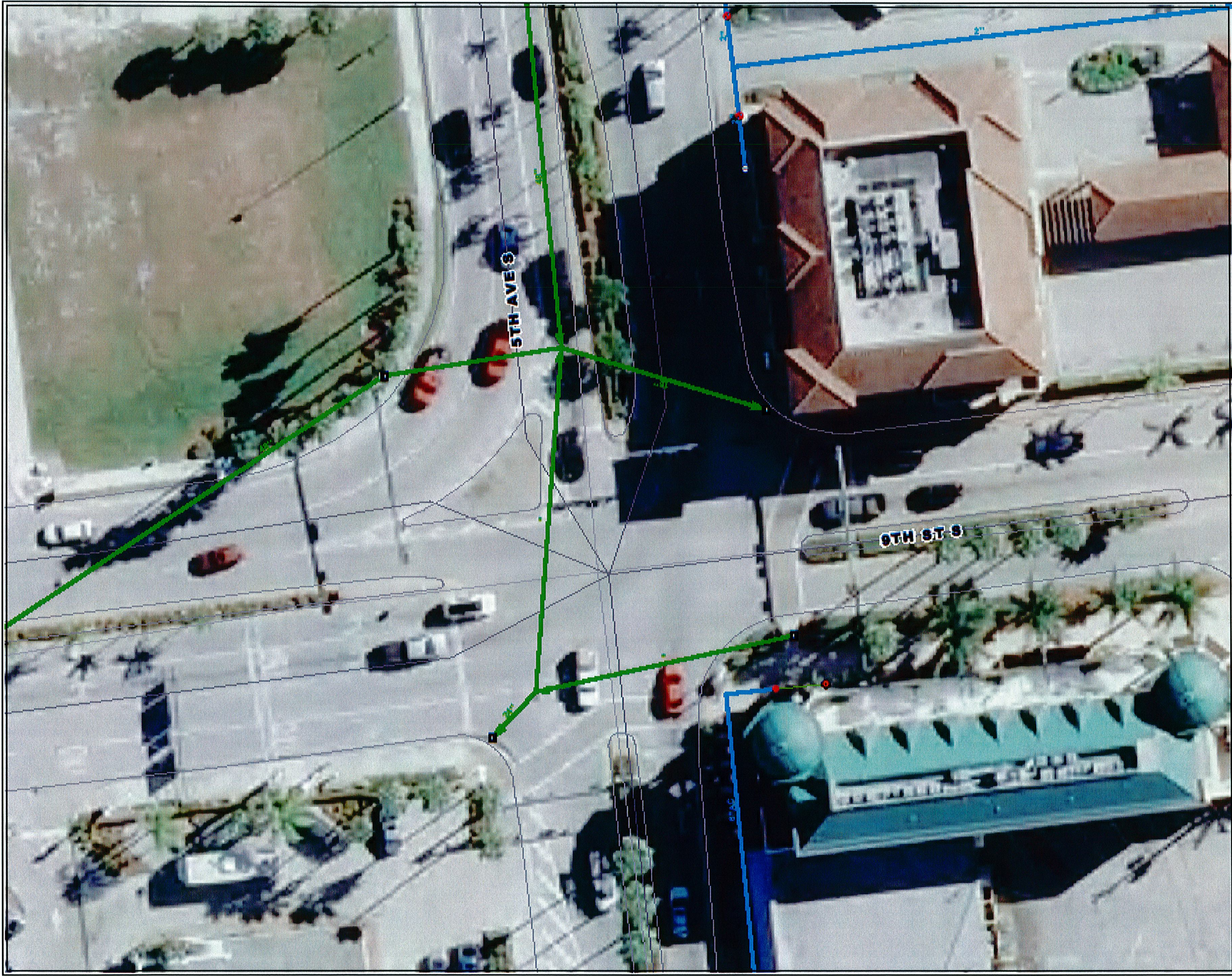


295 RIVERSIDE CIRCLE  
 NAPLES, FL. 34102

**STATE ROAD No.90 (U.S.41) AT FOUR CORNERS**

**GENERAL NOTES AND TRAFFIC OPERATION NOTES**

SHEET No.
9



GIS Division - Technology Services Dept.

The City of Naples assumes no liability for errors or omissions in the accuracy of this map. All information shown is for reference only. Water, Wastewater, and Reuse data updates are in progress.

**City of Naples  
Utilities Networks**

0 0.004 0.008 0.016 Miles



REVISIONS

DATE	DESCRIPTION
Jun. 7, 2012	Added legend.

DRAWN BY: C.VARGA, 02/23/2012

City of Naples  
STREETS AND STORMWATER DEPARTMENT



295 RIVERSIDE CIRCLE  
NAPLES, FL 34102

STATE ROAD No.90 (U.S.41) AT FOUR CORNERS

UTILITY LOCATION

SHEET  
No.

10



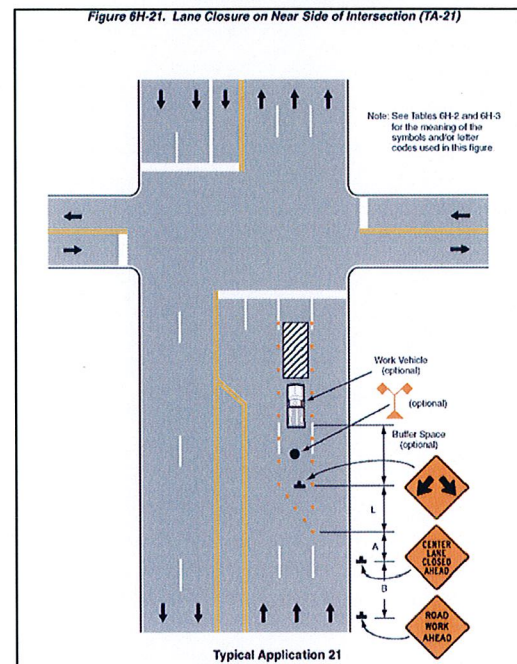
MOT CHART AND NOTES:

ACTIVITY	MOT APPLICATION
A. Installation of underground conduits.	29 *
B. Mast arm installation.	34
C. Signal loop & home-run installations/relocations.	21, 22, 23, 25 *
D. Removal/construction of sidewalk sections with new ramps and median crossing.	29 *
E. Installation of new signal heads on arms and installation of pedestrian signals.	29 *
F. Controller programming at the control center, installation of wiring, installation of controller, signal cabinet upgrades and signal system programming in the field.	29 *
G. Pavement markings & signage installations.	21-25, 29 *
H. Implementation of pedestrian signal operations on S.R.45.	22, 23, 25 *

- TRAFFIC CONTROLS SHALL BE IN ACCORDANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION) AND THE FDOT STANDARDS SPECIFICATIONS FOR ROADWAY AND BRIDGE CONSTRUCTION (LATEST EDITION)
- FOR GENERAL TRAFFIC CONTROL ZONE REQUIREMENTS AND INFORMATION REFER TO FDOT STANDARD INDEX 600 SERIES.
- LANE CLOSURES AND PEDESTRIAN CLOSURES SHALL BE IN ACCORDANCE WITH THE APPLICATIONS LISTED ABOVE AND REFERENCED FROM THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (LATEST EDITION)
- THE EXISTING SPEED LIMITS SHALL BE MAINTAINED FOR ALL TRAFFIC CONTROL AREAS. THE POSTED SPEED LIMIT IS 30 MPH.
- MINIMUM LANE WIDTHS OF 10 FEET ARE REQUIRED.
- PROVISIONS FOR TRAFFIC DISRUPTIONS THAT ARE NOT ANTICIPATED IN THE TRAFFIC CONTROL PLAN, BUT ARE NECESSARY TO IMPROVE THE INTERSECTION, WILL BE SUBMITTED TO THE ENGINEER FOR APPROVAL AT LEAST 72 HOURS BEFORE THE START OF WORK. SUBMITTAL MATERIAL SHALL INCLUDE SKETCHES, CALCULATIONS AND OTHER DATA REQUIRED BY THE ENGINEER.
- THE CONTRACTOR SHALL NOT EXCAVATE ANY AREAS THAT CAN NOT BE SAFELY REOPENED WITHIN THE SAME WORK PERIOD IN ACCORDANCE WITH DROP OFF CRITERIA SHOWN IN STANDARD INDEXES.
- THE CONTRACTOR SHALL MAINTAIN ALL EXISTING SIGNS ALONG THE ROADWAY AND INTERSECTING SIDE STREETS. THESE SIGNS SHALL INCLUDE THE STREET SIGNS, STOP SIGNS, AND BUS STOP SIGNS.
- INSTALL ADVANCE WARNING SIGNS AS REQUIRED BY THE STANDARD INDEX 600.
- INSTALL WORK ZONE SIGNS AS REQUIRED BY STANDARD INDEXES 604, 611, 612, AND 660 AS APPLICABLE.
- INSTALL TEMPORARY BARRICADES AS REQUIRED BY THE STANDARD INDEX 612.
- CONSTRUCT THE PROPOSED SIDEWALK, SODDING AND PAVEMENT MARKINGS UTILIZING STANDARD INDEXES 600, 604, 611, 612, 660.
- THE CONTRACTOR SHALL CLEAN UP ALL EQUIPMENT AND SIGNAGE MATERIALS USED THROUGHOUT THE PROJECT LIMITS.
- THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN TRAFFIC AT ALL TIMES DURING THE CONSTRUCTION PROCESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT A SAFE AND UNOBSTRUCTED ROUTE EXISTS FOR PEDESTRIANS. REFER TO INDEX 660.
- LANE CLOSURES ARE TO BE IMPLEMENTED ACCORDING TO THE ABOVE MOT SCHEDULE.

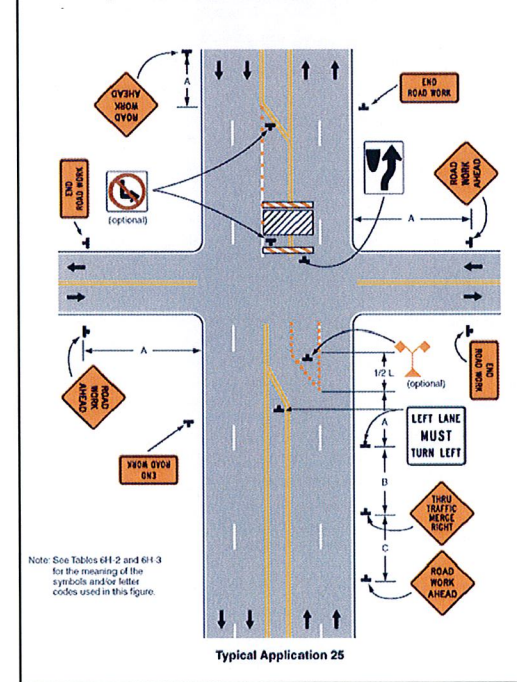
\*NOTE: SEE REFERENCED INDEXES ABOVE

APPLICATION 21



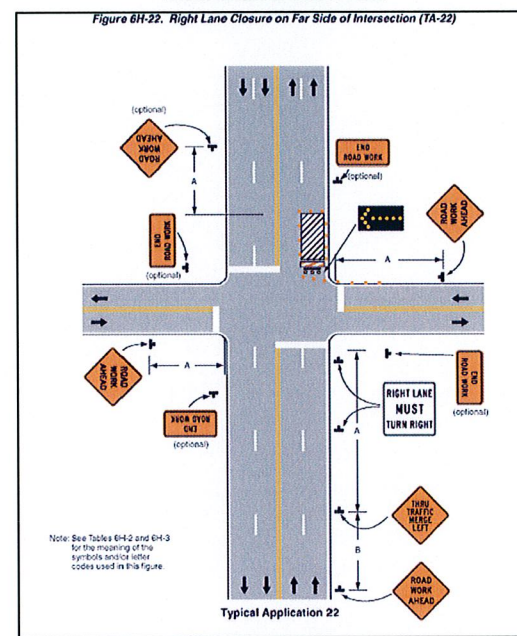
Typical Application 21

Figure 6H-25. Multiple Lane Closures at Intersection (TA-25)



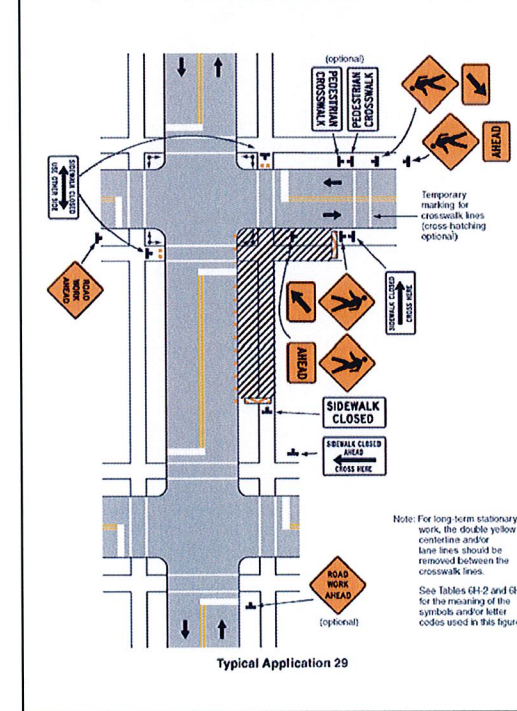
APPLICATION 25

APPLICATION 22



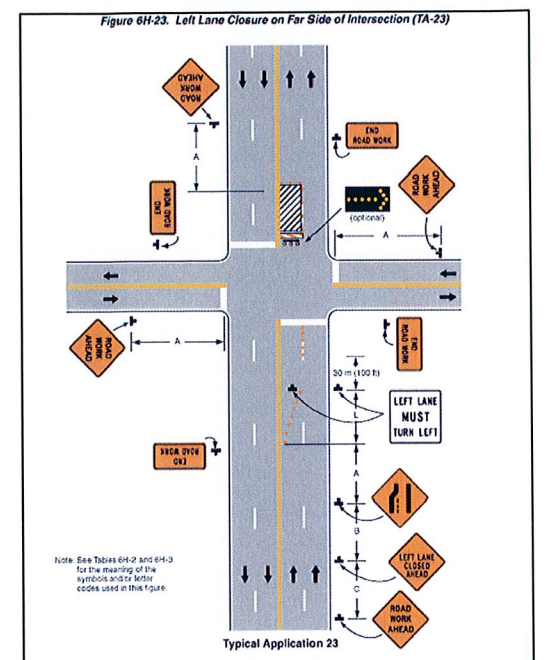
Typical Application 22

Figure 6H-29. Crosswalk Closures and Pedestrian Detours (TA-29)



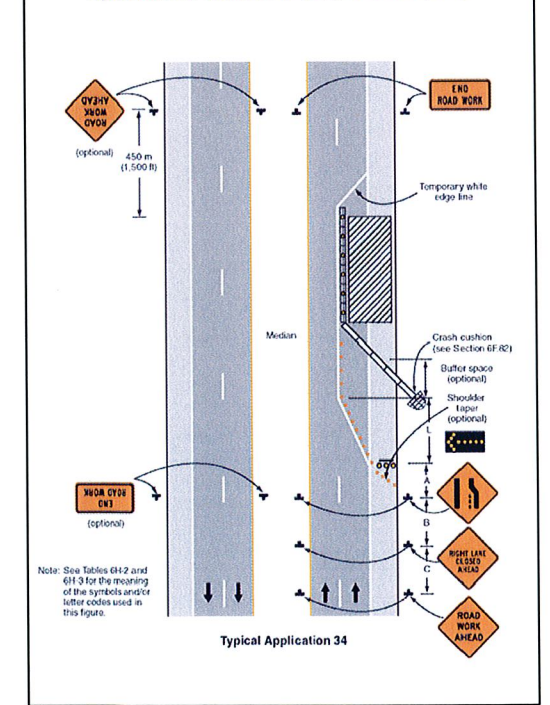
APPLICATION 29

APPLICATION 23



Typical Application 23

Figure 6H-34. Lane Closure with Temporary Traffic Barrier (TA-34)



APPLICATION 34

NOTE: THE ABOVE TRAFFIC CONTROL APPLICATIONS ARE REFERENCED IN ACCORDANCE WITH THE MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES, LATEST EDITION

REVISIONS	
DATE	DESCRIPTION

DRAWN BY: C.VARGA, 02/23/2012

**City of Naples**  
STREETS AND STORMWATER DEPARTMENT

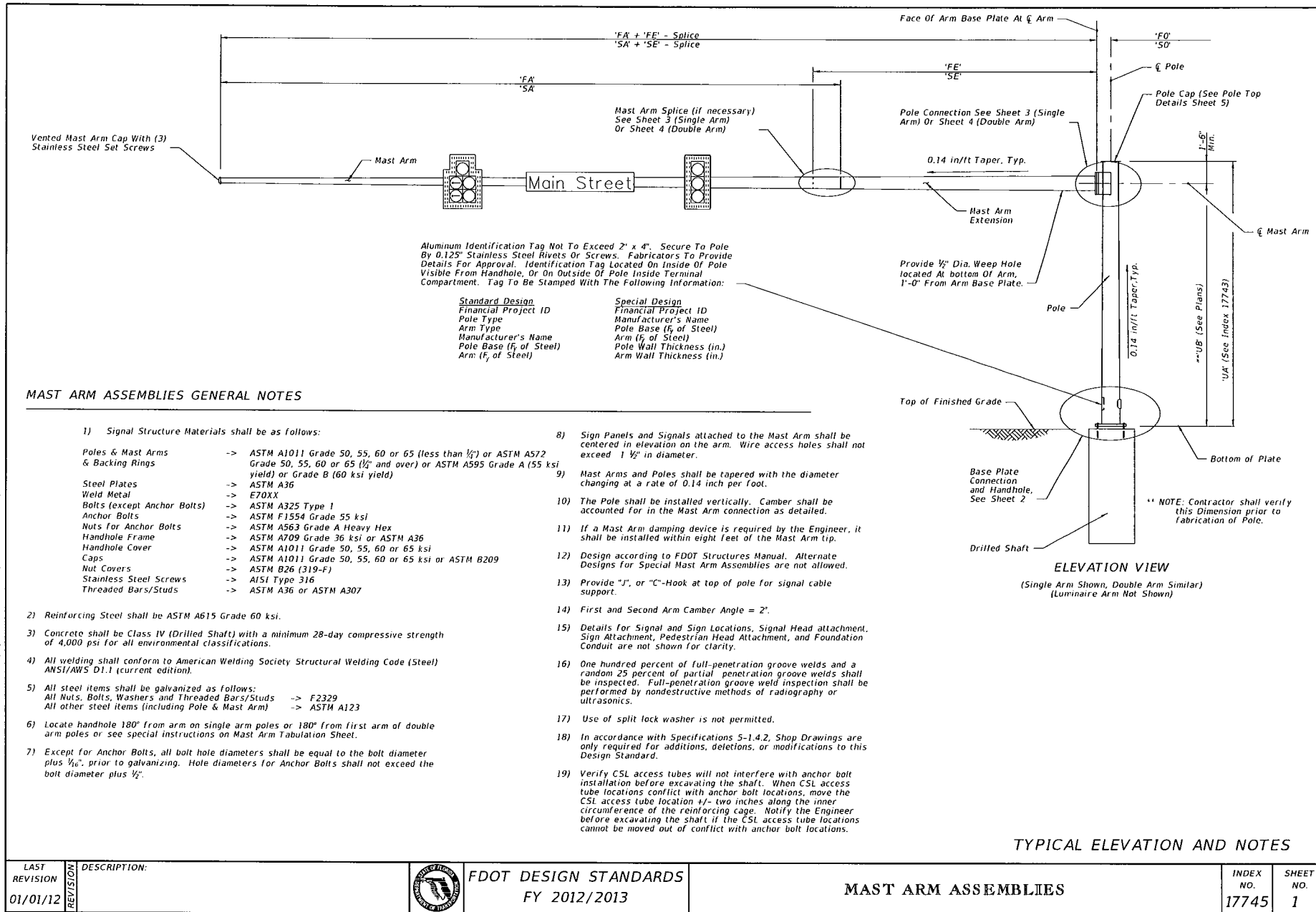
295 RIVERSIDE CIRCLE  
NAPLES, FL 34102

STATE ROAD No.90 (U.S.41) AT FOUR CORNERS

MAINTENANCE OF TRAFFIC

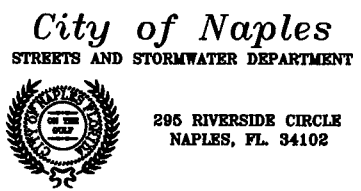
SHEET No.

11



REVISIONS	
DATE	DESCRIPTION

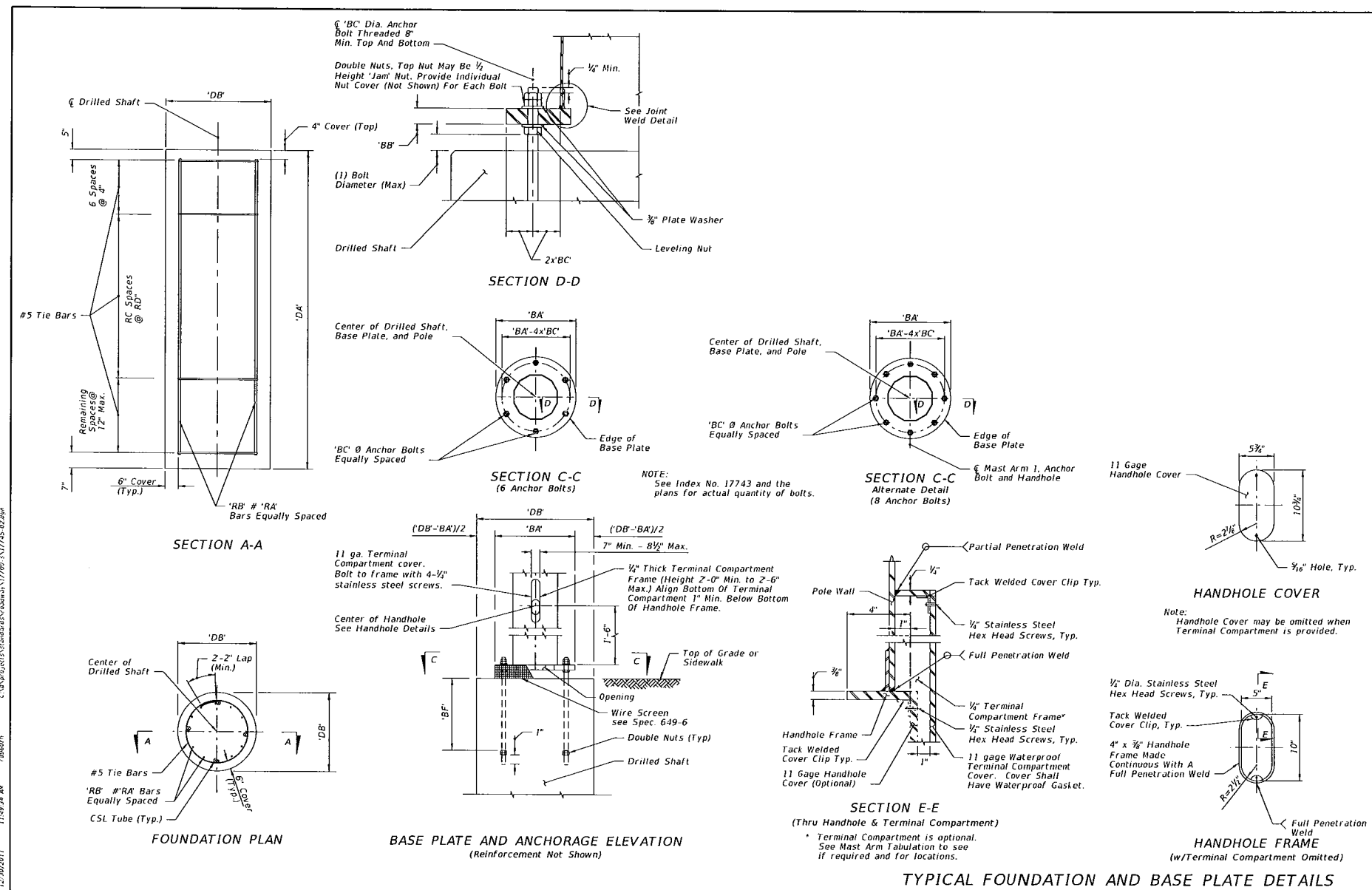
DRAWN BY: C.VARGA, 02/23/2012




**STATE ROAD No.90 (U.S.41) AT FOUR CORNERS**

**FDOT MAST ARM ASSEMBLIES - INDEX 17745**


SHEET No.  
 12A



LAST REVISION	DESCRIPTION:	 <b>FDOT DESIGN STANDARDS</b> FY 2012/2013	<b>MAST ARM ASSEMBLIES</b>	INDEX NO. 17745	SHEET NO. 2
01/01/12					

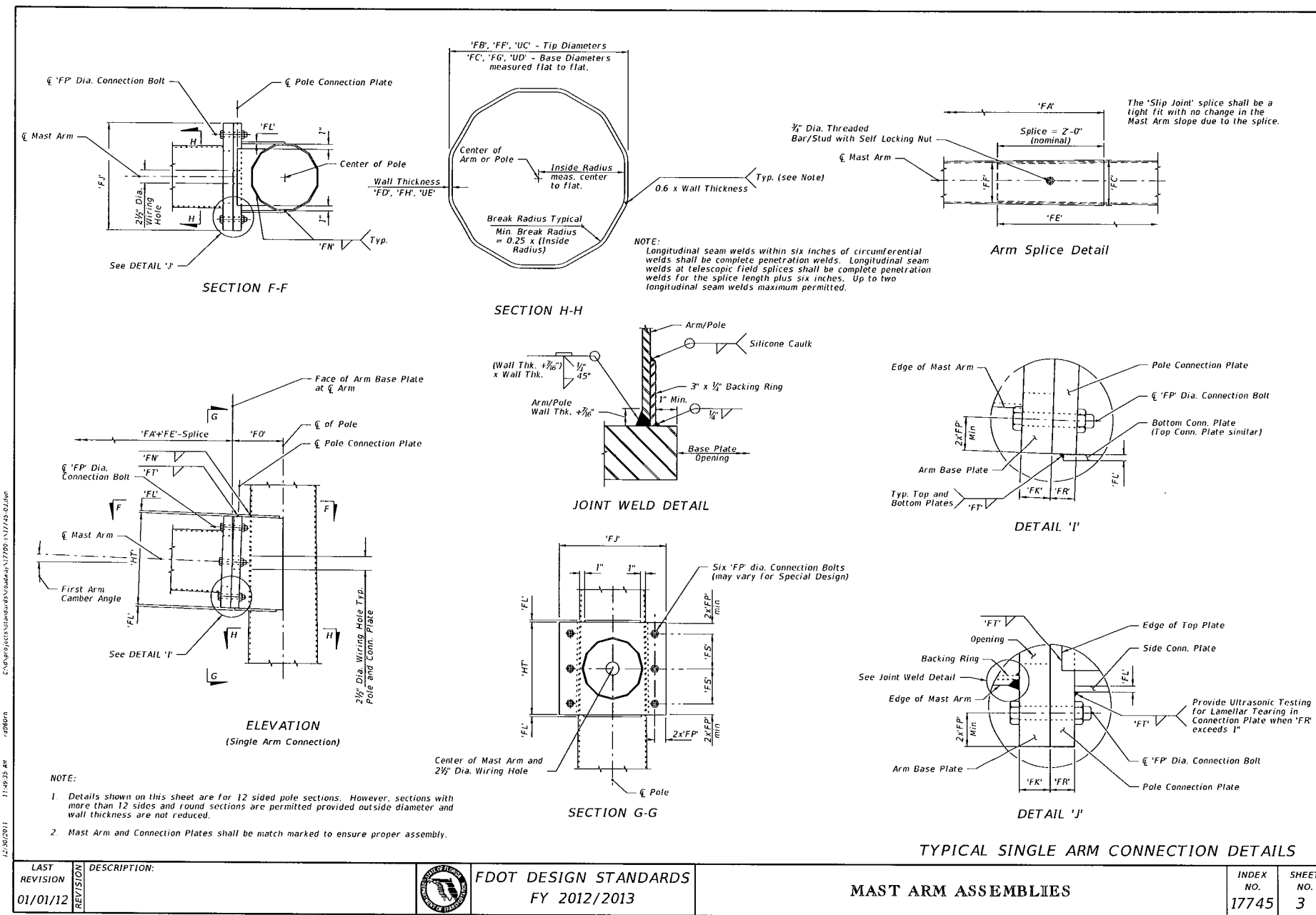
REVISIONS	
DATE	DESCRIPTION

DRAWN BY: C.VARGA, 02/23/2012

**City of Naples**  
 STREETS AND STORMWATER DEPARTMENT  
  
 295 RIVERSIDE CIRCLE  
 NAPLES, FL. 34102

**STATE ROAD No.90 (U.S.41) AT FOUR CORNERS**  
  
**FDOT MAST ARM ASSEMBLIES - INDEX 17745**

SHEET No.  
 12B



LAST REVISION	DESCRIPTION:	<b>FDOT DESIGN STANDARDS</b> FY 2012/2013	<b>MAST ARM ASSEMBLIES</b>	INDEX NO.	SHEET NO.
01/01/12				17745	3

REVISIONS	
DATE	DESCRIPTION

DRAWN BY: C.VARGA, 02/23/2012

**City of Naples**  
 STREETS AND STORMWATER DEPARTMENT  

 295 RIVERSIDE CIRCLE  
 NAPLES, FL. 34102

**STATE ROAD No.90 (U.S.41) AT FOUR CORNERS**  
  
**FDOT MAST ARM ASSEMBLIES - INDEX 17745**

SHEET No.	
	12C

CITY OF NAPLES

FOUR CORNERS PEDESTRIAN SIGNAL PROJECT  
FDOT PERMIT SUBMITTAL PACKAGE

HISTORIC INTERSECTION INFORMATION  
FOR  
FOUR CORNERS (S.R.45/S.R.90)

AUG 2012

FOR BACKGROUND INFORMATION, THE FOLLOWING FDOT PLAN SHEETS ARE INCLUDED AS ATTACHMENTS IN THIS SUBMITTAL:

H1. FDOT FP ID 195403-1-52-01 SHEET NO. 108: SIGNAL PLANS FOR INTERSECTION #246 (U.S.41 @ 5<sup>TH</sup> AVENUE SOUTH)

H2. FDOT FP ID 195403-1-52-01 SHEET NO. 120: REPORT OF SPT BORINGS FOR STRUCTURE (NOTE: BORING MA-119 AND BENCH MARK ELEVATION)

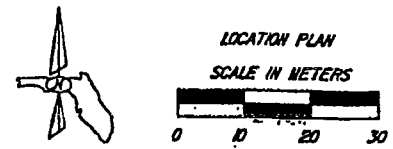
H3. FDOT FP ID 195403-1-52-01 SHEET NO. 151: COMMUNICATIONS CABLE ROUTING PLANS

H4. FDOT FP ID 195403-1-52-01 SHEET NO. 128: MAST ARM DETAIL AND SCHEDULE

**SHEET H**



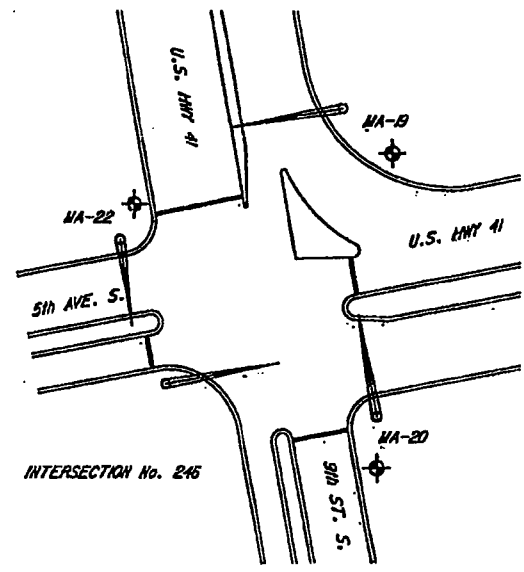




SECTION: 3  
TOWNSHIP: 50 SOUTH  
RANGE: 25 EAST

LEGEND  
APPROXIMATE LOCATION OF STANDARD PENETRATION TEST BORING

NOTE: PLAN AS SHOWN IS PRELIMINARY FOR REPRESENTATION OF BORING LOCATION ONLY AND MAY NOT BE INDICATIVE OF FINAL CONTRACT PLANS.



SOIL DESIGN PARAMETERS INTERSECTION No. 246 BORING Nos. MA-19 and MA-22

AVERAGE ELEVATION (meters)	AVERAGE DEPTH (meters)	UNIFIED CLASSIFICATION (meters)	TOTAL UNIT WEIGHT (kN/m <sup>3</sup> )	SUBMERGED UNIT WEIGHT (kN/m <sup>3</sup> )	ANGLE OF INTERNAL FRICTION (φ)	COHESION (kPa)
30.4 - 29.2	0 - 1.2	SP	16.5	7.8	28	-
29.2 - 26.8	1.2 - 3.6	SP-SM	16.8	8.1	29	-
26.8 - 23.3	3.6 - 7.1	SP-SM	13.3	4.6	24	-
23.3 - 21.7	7.1 - 8.7	LIMESTONE	18.9	10.2	34	-
21.7 - 19.7	8.7 - 10.7	LIMESTONE	18.1	9.4	30	-

SOIL DESIGN PARAMETERS BORING No. MA-20

AVERAGE ELEVATION (meters)	AVERAGE DEPTH (meters)	UNIFIED CLASSIFICATION (meters)	TOTAL UNIT WEIGHT (kN/m <sup>3</sup> )	SUBMERGED UNIT WEIGHT (kN/m <sup>3</sup> )	ANGLE OF INTERNAL FRICTION (φ)	COHESION (kPa)
30.4 - 29.2	0 - 1.2	SP-SM	16.5	7.8	28	-
29.2 - 24.8	1.2 - 5.6	SP	16.8	8.1	30	-
24.8 - 21.7	5.6 - 8.7	LIMESTONE	18.9	10.2	34	-
21.7 - 19.7	8.7 - 10.7	LIMESTONE	18.1	9.4	30	-

- LEGEND
- [Symbol] SAND
  - [Symbol] SILTY SAND
  - [Symbol] UNIFIED SOIL CLASSIFICATION GROUP SYMBOL
  - [Symbol] ENCOUNTERED GROUNDWATER LEVEL WITH DATE OF READING
  - [Symbol] GNE GROUNDWATER NOT ENCOUNTERED
  - [Symbol] NATURAL MOISTURE CONTENT (%) FINES PASSING No. 200 SIEVE (%)

- [Symbol] DRILLING FLUID CIRCULATION LOSS
- [Symbol] STANDARD PENETRATION RESISTANCE IN BLOWS PER 305mm UNLESS OTHERWISE NOTED
- [Symbol] WEIGHT OF ROD AND HAMMER SUFFICIENT TO ADVANCE SAMPLING SPOON
- [Symbol] NUMBER OF BLOWS REQUIRED (SD) TO ADVANCE SAMPLING SPOON 100 mm.

STANDARD PENETRATION TEST DATA

SPOON INSIDE DIA.	35mm
SPOON OUTSIDE DIA.	50mm
ASTM STANDARD DROP SAFETY HAMMER (ROPE-CATHREAD)	
AVG. HAMMER DROP	760mm
HAMMER WEIGHT	63.5 Kg

GRANULAR MATERIALS

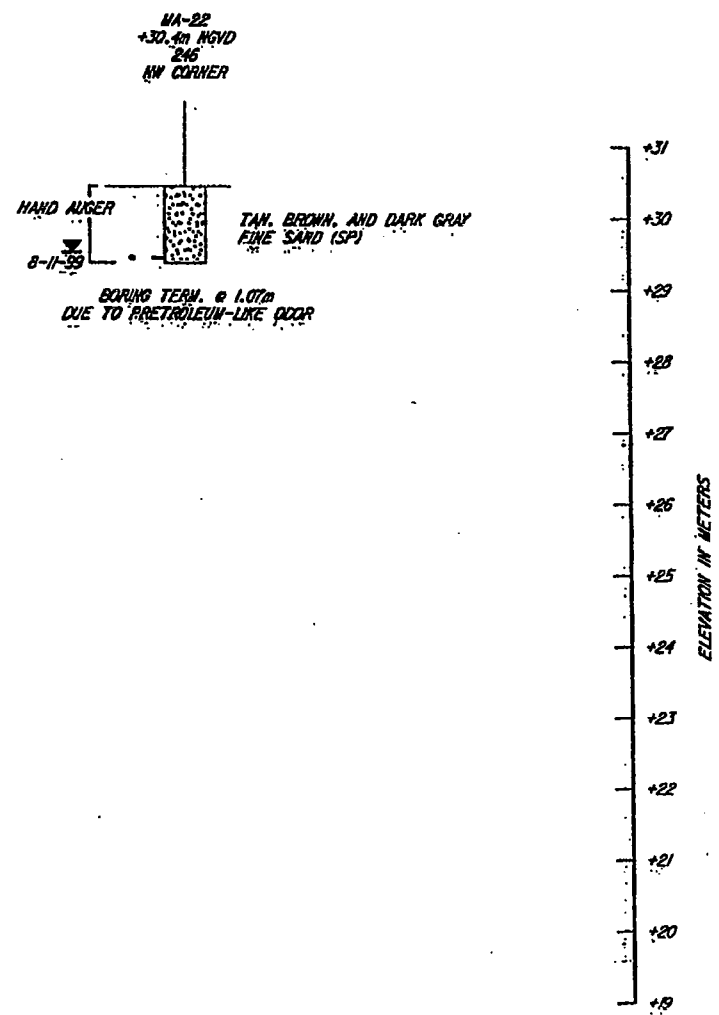
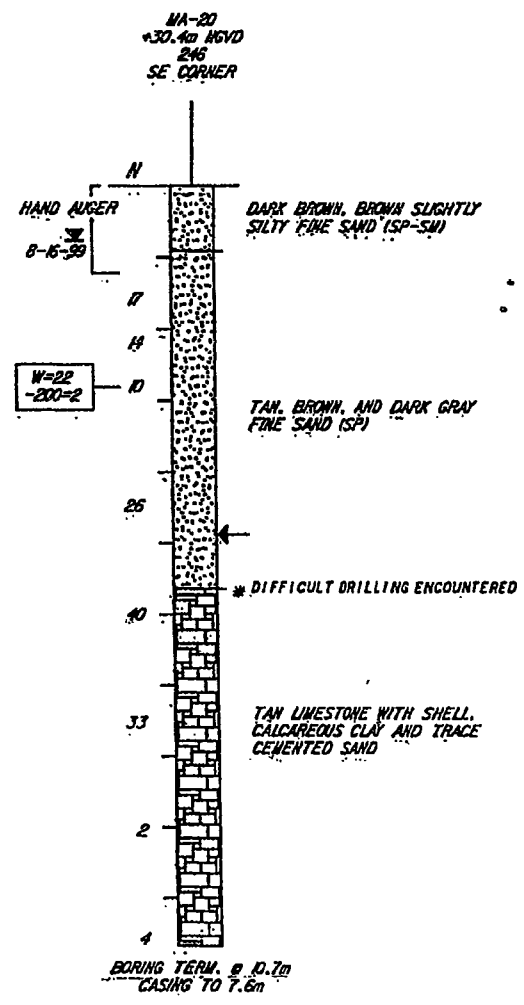
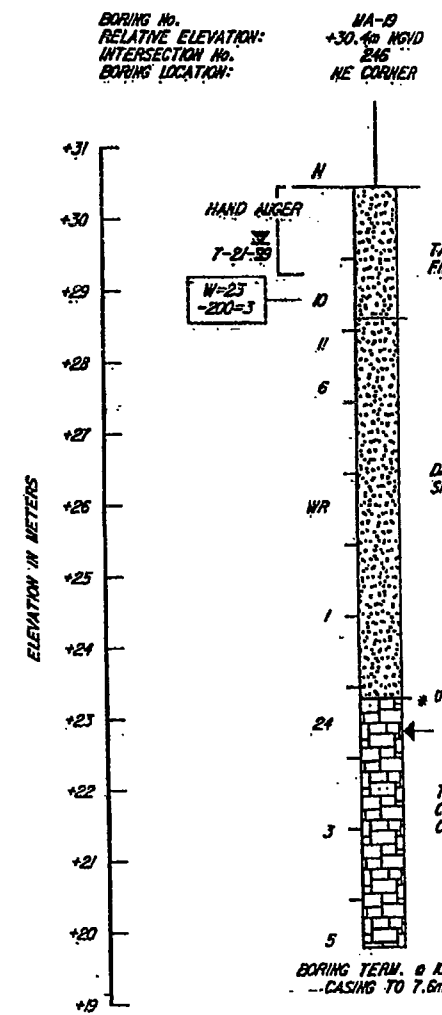
RELATIVE DENSITY	SPT (BLOWS/305mm)
VERY LOOSE	LESS THAN 4
LOOSE	4-10
COMPACT	10-30
DENSE	30-50
VERY DENSE	GREATER THAN 50

SILTS AND CLAYS

CONSISTENCY	SPT (BLOWS/305mm)
VERY SOFT	LESS THAN 2
SOFT	2-4
FIRM	4-8
STIFF	8-15
VERY STIFF	15-30
HARD	GREATER THAN 30

- NOTES:
- SUBSURFACE VARIATIONS BETWEEN BORINGS SHOULD BE ANTICIPATED AS INDICATED IN SECTION 2-4 OF THE STANDARD SPECIFICATIONS.
  - BORING ELEVATIONS ARE BASED ON A ASSUMED +30.48m BENCH MARK PER INTERSECTION AS PROVIDED BY GRAY-CALHOUN AND ASSOCIATES.
  - LAYERS OF VERY HARD MATERIAL SUCH AS LIMESTONE, CEMENTED SOILS/SHELL, BOULDERS, ROCK MAY BE ENCOUNTERED AT THIS SITE. SUCH MATERIAL MAY MAKE CASING INSTALLATION AND/OR SHAFT EXCAVATION DIFFICULT. THE CONTRACTOR SHALL EXPECT TO ENCOUNTER THESE TYPE OF MATERIALS AT ALL SHAFT LOCATIONS AND SHALL USE SPECIALIZED EQUIPMENT AND/OR PROCEDURES AS NECESSARY TO FACILITATE CASING INSTALLATION AND/OR SHAFT EXCAVATION. IF CASING IS USED, THE CASING TIP SHALL BE REINFORCED AND THE CASING THICKNESS SHALL BE ADEQUATE TO PREVENT CASING DAMAGE/DEFORMATION DURING INSTALLATION THROUGH HARD LAYERS.

ENVIRONMENTAL CLASSIFICATION:



# SHEET H3

REVISIONS				ENGINEER OF RECORD:		LOGO:		FLORIDA DEPARTMENT OF TRANSPORTATION		SHEET TITLE	
Date	By	Description	Date	By	Description	Drawn by	Checked by	GEOTECHNICAL DESIGN OFFICE		REPORT OF SPT BORINGS FOR STRUCTURE	
				SW	10-12-99			CITY OF MAPLES / COLLIER COUNTY		Drawing No.	
				JP	10-12-99	DOUGLAS W. BAKER, P.E. No. 40543		COUNTY		PROJECT NAME:	
				N/A	N/A	NODARSE & ASSOCIATES, INC.		COLLIER		CITY OF MAPLES / COLLIER COUNTY	
				N/A	N/A	354 ARCH STREET		FINANCIAL PROJECT ID.		SIGNAL SYSTEMS	
				DOUGLAS W. BAKER, P.E.		TAMPA, FLORIDA		ES-403-1-52-01		U.S. HWY 41 / 5th AVE. S.	
										COLLIER COUNTY, FLORIDA	
										Incl. No.	



# POLE AND MAST ARM SCHEDULE (GREEN FINISH)

LOC. NO.	POLE NO.	ARM NO.	POLE DATA		ARM DATA										LUMINAIRE ARM LENGTH	ELEVATION DIFFERENTIAL **	ITEM NO.								
			A POLE HEIGHT	B TOP OF POLE TO ARM	C ARM LENGTH	SIGNAL HEADS					BACKPLATES REQUIRED?	TUNNEL VISORS?	SIGNS												
						INITIAL LOADING							INITIAL LOADING												
DISTANCE FROM POLE		DISTANCE FROM POLE		DISTANCE FROM POLE		DISTANCE FROM POLE		DISTANCE FROM POLE		DISTANCE FROM POLE		DISTANCE FROM POLE		DISTANCE FROM POLE		DISTANCE FROM POLE									
225	1	1			21	17.2	20.2			15.7 <sup>(*)</sup>	18.2 <sup>(*)</sup>	20.2 <sup>(*)</sup>			YES	YES	18.4 <sup>(1)</sup>	18.4 <sup>(1)(*)</sup>	20.7 <sup>(*)</sup>	N/A	-.07	2647-13-40			
						5	3			3	3	3					1.8 x .45	x	1.8 x .45	.75 x .90	x				
225	1	2			19	8.9	12.2	15.5		8.9 <sup>(*)</sup>	12.2 <sup>(*)</sup>	16.4 <sup>(*)</sup>			YES	YES	5.7 <sup>(1)</sup>	5.7 <sup>(1)(*)</sup>	18.7 <sup>(*)</sup>	N/A	.11	2647-13-40			
						3	3	5		3	3	3					1.8 x .45	x	1.8 x .45	.75 x .90	x				
225	2	1			21	14.7	18.3			13.0 <sup>(*)</sup>	16.6 <sup>(*)</sup>	20.0 <sup>(*)</sup>			YES	YES	16.5 <sup>(1)</sup>	18.1 <sup>(1)(*)</sup>	20.7 <sup>(*)</sup>	N/A	-.02	2647-13-40			
						5	3			3	3	3					1.8 x .45	x	1.8 x .45	.75 x .90	x				
225	2	2			19	11.5	14.7	18.0		11.3 <sup>(*)</sup>	14.7 <sup>(*)</sup>	18.5 <sup>(*)</sup>			YES	YES	8.7 <sup>(1)</sup>	8.7 <sup>(1)(*)</sup>	18.7 <sup>(*)</sup>	N/A	.05	2647-13-40			
						3	3	5		3	3	3					1.8 x .45	x	1.8 x .45	.75 x .90	x				
235	1	1			19	10.3	13.6	16.9		10.3 <sup>(*)</sup>	13.6 <sup>(*)</sup>	18.5 <sup>(*)</sup>			YES	YES	3.7 <sup>(1)</sup>	3.7 <sup>(1)(*)</sup>	18.7 <sup>(*)</sup>	N/A	.11	2647-13-35			
						3	3	5		3	3	3					1.8 x .45	x	1.8 x .45	.75 x .90	x				
235	1	2			16	12.2	15.0			11.1 <sup>(*)</sup>	13.3 <sup>(*)</sup>	15.0 <sup>(*)</sup>			YES	YES	13.6 <sup>(1)</sup>	14.0 <sup>(1)(*)</sup>	15.7 <sup>(*)</sup>	N/A	-.07	2647-13-35			
						3	3			3	3	3					1.8 x .45	x	1.8 x .45	.75 x .90	x				
235	2	1			20	10.3	13.6	16.8		10.3 <sup>(*)</sup>	13.6 <sup>(*)</sup>	19.0 <sup>(*)</sup>			YES	YES	6.2 <sup>(1)</sup>	6.2 <sup>(1)(*)</sup>	19.7 <sup>(*)</sup>	N/A	.10	2647-13-36			
						3	3	5		3	3	3					1.8 x .45	x	1.8 x .45	.75 x .90	x				
235	2	2			16	8.9	14.4			8.9 <sup>(*)</sup>	14.4 <sup>(*)</sup>				YES	YES	11.7 <sup>(1)</sup>	11.7 <sup>(1)(*)</sup>	15.7 <sup>(*)</sup>	N/A	-.03	2647-13-36			
						3	3			3	3						1.8 x .45	x	1.8 x .45	.75 x .90	x				
246	1	1			15	10.8	14.1			10.8 <sup>(*)</sup>	14.1 <sup>(*)</sup>				YES	YES	12.4 <sup>(1)</sup>	12.4 <sup>(1)(*)</sup>	14.7 <sup>(*)</sup>	N/A	.06	2647-11-15			
						3	5			3	5						1.8 x .45	x	1.8 x .45	.75 x .90	x				
246	2	1			22	11.1	14.0	17.3	20.6	11.1 <sup>(*)</sup>	14.0 <sup>(*)</sup>	17.3 <sup>(*)</sup>	20.6 <sup>(*)</sup>		YES	YES	19.1 <sup>(1)</sup>	19.1 <sup>(1)(*)</sup>	21.7 <sup>(*)</sup>	N/A	.01	2647-13-41			
						3	3	3	3	3	3	3	3				1.8 x .45	x	1.8 x .45	.75 x .90	x				
246	2	2			19	12.7	16.4			12.7 <sup>(*)</sup>	16.4 <sup>(*)</sup>				YES	YES	4.6 <sup>(1)</sup>	14.5 <sup>(1)(*)</sup>	17.6 <sup>(*)</sup>	4.6 <sup>(1)(*)</sup>	14.5 <sup>(*)</sup>	18.7 <sup>(*)</sup>	N/A	.07	2647-13-41
						3	3			3	3						1.8 x .45	.61 x .76	.61 x .61	1.8 x .45	.61 x .76	.75 x .90			
246	3	1			15	2.9	5.9	9.6	12.4	2.9 <sup>(*)</sup>	5.9 <sup>(*)</sup>	9.6 <sup>(*)</sup>	12.4 <sup>(*)</sup>		YES	YES	1.5 <sup>(1)</sup>	11.0 <sup>(1)(*)</sup>	13.6 <sup>(*)</sup>	1.5 <sup>(1)(*)</sup>	11.1 <sup>(*)</sup>	14.7 <sup>(*)</sup>	N/A	.03	2647-11-15
						1	1	3	3	1	1	3	3				1.8 x .45	.61 x .76	.61 x .61	1.8 x .45	.61 x .76	.75 x .90			

NOTE: "A" AND "B" MEASUREMENTS, IF SHOWN, ABOVE ARE APPROXIMATE AND WILL VARY FROM FINAL DESIGN. SEE STRUCTURAL DESIGN SHEETS FOR FINAL DESIGN.

BACKPLATES AND TUNNEL VISORS INDICATED ABOVE ARE FOR STRUCTURAL DESIGN PURPOSES ONLY. SEE PLAN SHEETS FOR NUMBER AND LOCATION OF BACKPLATES AND TUNNEL VISORS REQUIRED, IF APPLICABLE.

UNLESS OTHERWISE NOTED, MEASUREMENTS ARE IN METERS.

(\*) POTENTIAL FUTURE MAXIMUM LOADING OF MAST ARM (THIS LOADING WOULD REPLACE INITIAL LOADING).

(1) INDICATES OVERHEAD SIGN IS INTERNALLY ILLUMINATED. SEE PLAN SHEETS FOR NUMBER AND LOCATION OF SIGNS REQUIRED.

\*\* A POSITIVE ELEVATION DIFFERENTIAL INDICATES THE POLE LOCATION IS LOWER THAN THE CRITICAL ROADWAY ELEVATION.

IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY THE ELEVATION DIFFERENTIAL PRIOR TO POLE MANUFACTURING.

CONTRACTOR SHALL ALSO INSURE THAT TOP OF POLE FOUNDATION WILL NOT BE INSTALLED BELOW NATURAL GROUND LEVEL.

\*\*\* FOR COLUMN LUMINAIRE ARM LENGTH REFER TO INDEX NO. S-2026 ON SHEET NUMBERS 139 THROUGH 150.

FOR COLUMN A AND B REFER TO INDEX NO. S-2026 ON SHEET NUMBERS 139 THROUGH 150.

IF SIGN PANEL IN NOTE 13 OF SHEET NUMBER 135 IS USED, IT SHALL MATCH THE MAST ARM COLOR.

Title: GCAS 6/10/07-1195, Date: 24 FEB 2000 Time: 15:05:20

FLORIDA DEPARTMENT OF TRANSPORTATION  
APPROVED BY:

*Jay H. Calhoun*  
6/8/00

## SHEET H4

FLORIDA DEPARTMENT OF TRANSPORTATION

MAST ARM DETAIL & SCHEDULE 41  
SHEET 2 OF 2

# MAP OF BOUNDARY SURVEY OF LOTS 19, 20, 21 AND 22 OF BLOCK 16, TIER 10, IN TOWN OF NAPLES, LYING IN SECTION 3, TOWNSHIP 50 SOUTH, RANGE 25 EAST, CITY OF NAPLES, COLLIER COUNTY, FLORIDA

### SURVEYOR'S NOTES

1. BEARINGS SHOWN HEREON ARE BASED UPON THE NORTHERLY RIGHT OF WAY LINE OF STATE ROAD 90 (U.S. 41) HAVING A BEARING OF S83°03'40"E AS SHOWN ON FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAP SECTION 030101-2345.
2. NO UNDERGROUND IMPROVEMENTS OR FOUNDATIONS WERE LOCATED UNDER THE SCOPE OF THIS SURVEY.
3. THIS PARCEL LIES IN FLOOD ZONE "AE" AS SHOWN ON FEMA FLOOD INSURANCE RATE MAP PANEL 120210039H, DATED MAY 16, 2012, WITH A BASE FLOOD ELEVATION OF 8 FEET NORTH AMERICAN VERTICAL DATUM OF 1988 (NAVD 1988).
4. BOUNDARY INFORMATION SHOWN HEREON IS BASED UPON THE RECORD PLAT AND RECORD RIGHT OF WAY MAPS. THE LEGAL DESCRIPTION SHOWN HEREON WAS COMPILED FROM THE LEGAL DESCRIPTION LISTED ON THE COLLIER COUNTY PROPERTY APPRAISER'S PARCEL DATA FOR FOLIO #19014360002. NO SEARCH OF THE PUBLIC RECORD WAS PERFORMED BY THIS SURVEYOR. THERE MAY BE OTHER SETBACKS AND/OR EASEMENTS NOT KNOWN TO THIS SURVEYOR.
5. THE STREET ADDRESS IS:  
 489 9TH STREET SOUTH  
 NAPLES, FLORIDA 34102

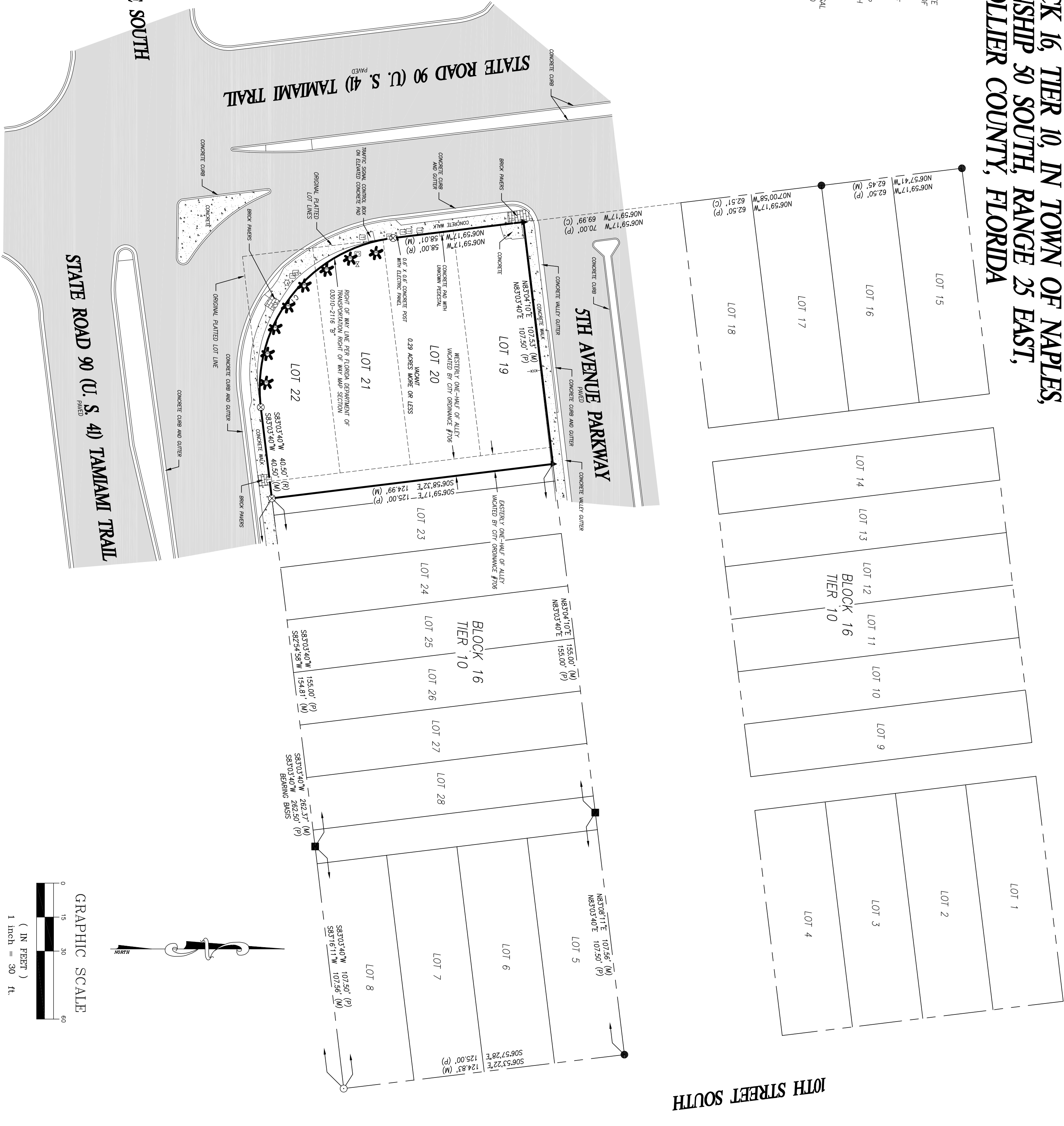
### LEGAL DESCRIPTION

LOTS 19, 20, 21 AND 22 OF BLOCK 16, TIER 10, IN TOWN OF NAPLES, ACCORDING TO THE REPLAT HEREOF RECORDED IN PLAT BOOK 1, PAGE 59, OF THE PUBLIC RECORDS OF COLLIER COUNTY, FLORIDA, TOGETHER WITH THE WESTERLY ONE-HALF (1/2) OF THE WESTERLY NORTH AND SOUTH ALLEY VACATED BY CITY ORDINANCE #706.

### LEGEND

- ▲ = SET 7/8" NAIL AND DISK - T&E W/ LB 6896"
- = FOUND 5/8" REBAR - NO IDENTIFICATION
- = FOUND 5/8" REBAR AND CAP - T&E W/ LB 43"
- ⊗ = SET 5/8" REBAR AND CAP - T&E W/ LB 6896"
- = FOUND 4" x 4" CONCRETE MONUMENT WITH 1/4" REBAR
- (C) = CALCULATED DATA
- (M) = FIELD MEASURED DATA
- (P) = RECORD PLAT DATA
- (R) = FLORIDA DEPARTMENT OF TRANSPORTATION RIGHT OF WAY MAP
- h = UNKNOWN BOX
- = BACKFLOW PREVENTER
- ☐ = COMMUNICATION BOX
- ☐ = TRAFFIC SIGNAL BOX
- ⊙ = TRAFFIC SIGNAL POLE
- ⊙ = STREET LIGHT ON A 1.2' DIAMETER BASE
- ⊙ = STREET LIGHT ON A 1' x 1' SQUARE BASE
- \* = EXOTIC PLANT

CURVE TABLE			
FIELD MEASUREMENTS			
CURVE	DELTA	RADIUS	ARC
C1	90°02'57"	67.00'	105.30'
RECORD RIGHT OF WAY MAP		CHORD BEARING	CHORD
CURVE	DELTA	ARC	CHORD BEARING
C1	90°00'00"	67.00'	105.24'



GRAPHIC SCALE  
 ( IN FEET )  
 1 inch = 30 ft.