

INVITATION FOR BID #13-1774-OV

Construction of Concrete ADA Boarding Pads, ADA Boarding Pads w/ Shelter Slabs, ADA Boarding Pads w/Bench Slabs

Manatee County, a political subdivision of the State of Florida, (hereinafter the "County") will receive sealed bids from individuals, corporations, partnerships, and other legal entities organized under the laws of the State of Florida or authorized to conduct business in the State of Florida.

NON-MANDATORY INFORMATION CONFERENCE

In order to insure that all prospective Bidders have sufficient information and understanding of the County's needs, an Information Conference will be held on **October 10, 2013 @ 11:00 AM** at the **Manatee County Public Works Department, Project Management Division, (Conference Room A)** located at **1022 26th Avenue East, Bradenton, FL 34208**. Attendance is not mandatory, but is highly encouraged.

DEADLINE FOR CLARIFICATION REQUESTS: October 17, 2013 (Reference Bid Article A.06)

TIME AND DATE DUE: October 31, 2013 at 4:00 PM

Manatee County Purchasing Division, 1112 Manatee Avenue West, Suite 803, Bradenton, FL 34205

Important Note: Lobbying is prohibited (reference Bid Article A.08).

This project is funded by the Federal Transit Administration and the American Recovery and Reinvestment Act (ARRA) of 2009. Bidders shall comply fully with all Federal and State guidelines for this procurement.

FOR INFORMATION CONTACT:

Olga Valcich, Contract Specialist
(941) 749-3055, Fax (941) 749-3034
olga.valcich@mymanatee.org

Manatee County Financial Management Department
Purchasing Division

AUTHORIZED FOR RELEASE: 

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SECTION 00010
INFORMATION TO BIDDERS

A.01 OPENING LOCATION

These Bids will be **publicly opened** at **Manatee County Purchasing Division, 1112 Manatee Avenue West, Suite 803, Bradenton, Florida 34205** in the presence of County officials at the time and date stated, or soon thereafter. All Bidders or their representatives are invited to be present.

Any Bids received after the stated time and date will not be considered. It shall be the sole responsibility of the Bidder to have their Bid **delivered to the Manatee County Purchasing Division** for receipt on or before the stated time and date. If a Bid is sent by **U.S. Mail**, the Bidder shall be responsible for its timely delivery to the Purchasing Division. Bids delayed by mail shall not be considered, shall not be opened at the public opening, and arrangements shall be made for their return at the respondent's request and expense.

A.02 SEALED & MARKED

One original and two copies of your **signed bid** shall be submitted in one **sealed** package, clearly marked on the outside **"Sealed Bid #13-1774-OV, Construction Of Concrete ADA Boarding Pads, ADA Boarding Pads with Shelter Slabs, ADA Boarding Pads with Bench Slabs"** with your company name.

Address package to: Manatee County Purchasing Division
1112 Manatee Avenue West, Suite 803
Bradenton, Florida 34205

A.03 SECURING OF DOCUMENTS

Complete individual copies of the Bidding documents for the project and/or products can be obtained free of charge at the Manatee County Administration Building located at 1112 Manatee Avenue West, Suite 803; or by calling **941-749-3055**. Documents may be obtained between the hours of 8:00 AM to 4:00 PM Monday through Friday with exception of holidays. A complete set of the bidding document must be used in preparing Bids. The County assumes no responsibility for errors and misinterpretations resulting from the use of incomplete sets of bidding documents.

A.04 BID DOCUMENTS

Bids on **<http://www.mymanatee.org>**. Bid documents and the Notices of Source Selection related to specific Bids are available for download in a portable document format (.PDF) file on the Manatee County web page on the Purchasing tab under "Bids." You may view and print these files using Adobe Acrobat software. You may download a free copy of this software (Adobe) from the County's web page if you do not have it.

INFORMATION TO BIDDERS

A.04 BID DOCUMENTS (Continued)

Manatee County collaborates with the Manatee Chamber of Commerce on distributing solicitations using the RFP Tool web page on the Chambers website: <http://www.Manateechamber.com> to post Bid documents in a portable document format (.PDF) file. This step is in addition to the posting on Manatee County Government web pages.

Manatee County may also use an internet service provider to distribute Bids. A link to that service, <http://www.DemandStar.com>, is provided on this website under the Tab "DemandStar". Participation in the DemandStar system is not a requirement for doing business with Manatee County.

Note: The County posts the Notice of Source Selection seven calendar days prior to the effective date of the award.

IT IS THE RESPONSIBILITY OF EACH CONTRACTOR, PRIOR TO SUBMITTING THEIR BID, TO CONTACT THE MANATEE COUNTY PURCHASING DIVISION (see contact information on page one of this document) TO DETERMINE IF ADDENDA WERE ISSUED AND TO MAKE SUCH ADDENDA A PART OF THEIR BID .

A.05 MODIFICATION OF BID SPECIFICATIONS

If a Bidder wishes to recommend changes to the Bid specifications, the Bidder shall furnish in writing, data and information necessary to aid the County in evaluating the request to modify the specifications. The County is not obligated to make any changes to the Bid specifications. Unless an addendum is issued, the Bid specifications shall remain unaltered. **Bidders must fully comply with the Bid specifications, terms, and conditions.**

A.06 DEADLINE FOR CLARIFICATION REQUESTS

October 17, 2013 at 5:00 PM shall be the deadline to submit all inquiries, suggestions, or requests concerning interpretation, clarification or additional information pertaining to the Invitation for Bids to the Manatee County Purchasing Division.

This deadline has been established to maintain fair treatment for all potential Bidders, while maintaining the expedited nature of the Economic Stimulus that the contracting of this work may achieve.

A.07 CLARIFICATION & ADDENDA

Each bidder shall examine all Invitation for Bid documents and shall judge all matters relating to the adequacy and accuracy of such documents. Any inquiries, suggestions or requests concerning interpretation, clarification or additional

SECTION 00010
INFORMATION TO BIDDERS

A.07 CLARIFICATION & ADDENDA (Continued)

information pertaining to the Invitation for Bids shall be made through the Manatee County Purchasing Division. The County shall not be responsible for oral interpretations given by any County employee, representative, or others. The issuance of a written addendum is the only official method whereby interpretation, clarification or additional information can be given.

If any addenda are issued to this Invitation for Bid, the County will broadcast the addenda on the Demand Star distribution system to "Planholders" on this web service, and post the documents on the Purchasing Division's web page at <http://www.mymanatee.org> which can be accessed by clicking on the "Purchasing" button and then clicking on the "Bids" button. **It shall be the responsibility of each Bidder, prior to submitting their Bid, to contact Manatee County Purchasing (see contact on page 1) to determine if addenda were issued and to make such addenda a part of their bid.**

A.08 LOBBYING

After the issuance of any Invitation for Bid, prospective bidders, or any agent, representative or person acting at the request of such Bidder shall not contact, communicate with or discuss any matter relating in any way to the Invitation for Bid with any officer, agent or employee of Manatee County other than the Purchasing Official or as directed in the Invitation for Bid. This prohibition includes the act of carbon copying officers, agents or employees of Manatee County on email correspondence. This requirement begins with the issuance of any Invitation for Bid, and ends upon execution of the final Contract or when the invitation has been canceled. Violators of this prohibition shall be subject to sanctions as provided in the Manatee County Purchasing Code of Law Chapter 2-26.

The Certification regarding Lobbying Pursuant to 49 CFR Part 20 shall be completed by the Bidder and returned with the Bid Form.

A.09 UNBALANCED BIDDING PROHIBITED

Manatee County recognizes that large and/or complex projects will often result in a variety of methods, sources, and prices. However, where in the opinion of the County such variation does not appear to be justified, given Bid specifications and industry and market conditions, the Bid will be presumed to be unbalanced. Examples of unbalanced bids will include:

1. Bids showing omissions, alterations of form, additions not specified or required conditional or unauthorized alternate Bids.
2. Bids quoting prices that substantially deviate, either higher or lower, from those included in the Bids of competitive Bidders for the same line item unit costs.

A.09 UNBALANCED BIDDING PROHIBITED (Continued)

3. Bids where the unit costs offered are in excess of or below reasonable cost analysis values.

In the event the County determines that a Bid is presumed unbalanced, it will request the opportunity to, and reserves the right to, review all source quotes, Bids, price lists, letter of intent, etc., which the Bidder obtained and upon which the Bidder relied upon to develop the Bid. The County reserves the right to reject as non-responsive any presumptive unbalanced Bids where the Bidder is unable to demonstrate the validity and/or necessity of the unbalanced unit costs.

A.10 FRONT END LOADING OF BID PRICING PROHIBITED

Prices offered for performance and/or acquisition activities to occur early in the project schedule, such as mobilization; clearing and grubbing; or maintenance of traffic; that are substantially higher than pricing of competitive Bidders within the same portion of the project schedule, will be presumed to be front end loaded. Front end loaded Bids could reasonably appear to be an attempt to obtain unjustified early payments creating a risk of insufficient incentive for the Contractor to complete the Work or otherwise creating an appearance of an under-capitalized Bidder.

In the event the County determines that a Bid is presumed to be front end loaded, it will request the opportunity to, and reserves the right to, review all source quotes, Bids, price lists, letter of intent, etc., which the Bidder obtained and upon which the Bidder relied upon to develop the pricing or acquisition timing for these Bid items. The County reserves the right to reject as non-responsive any presumptive front end loaded Bids where the Bidder is unable to demonstrate the validity and/or necessity of the front end loaded costs.

A.11 WITHDRAWAL OF OFFERS

Contractors may withdraw offers as follows: a) Mistakes discovered before the opening of a solicitation may be withdrawn by written notice from the Bidder submitting the offer. This request must be received in the office designated for receipt of offers in the solicitation document prior to the time set for delivery and opening of the offers. A copy of the request shall be retained and the unopened offer returned to the Contractor. b) After the responses to a solicitation are opened or a selection has been determined, but before a Contract is signed, a Contractor alleging a material mistake of fact may be permitted to withdraw their offer if: (1) the mistake is clearly evident on the solicitation document; or (2) the Bidder submits evidence which clearly and convincingly demonstrates that a mistake was made. Request to withdraw an offer must be in writing and approved by the Purchasing Official.

A.12 IRREVOCABLE OFFER

Any Bid may be withdrawn up until the date and time set for opening of the Bid. Any Bid not so withdrawn shall, upon opening, constitute an irrevocable offer for a period of ninety (90) days to sell to Manatee County the goods or services set forth in the attached specifications until one or more of the Bids have been duly accepted by the County.

A.13 BID EXPENSES

All expenses for making Bids to the County are to be borne by the bidder.

A.14 RESERVED RIGHTS

The County reserves the right to accept or reject any and/or all bids, to waive irregularities and technicalities and to request resubmission. Also, the County reserves the right to accept all or any part of the Bid and to increase or decrease quantities to meet additional or reduced requirements of the County. Any sole response received by the first submission date may or may not be rejected by the County depending on available competition and current needs of the County. For all items combined, the bid of the lowest responsive, responsible bidder will be accepted, unless all Bids are rejected. The lowest responsible Bidder shall mean **that Bidder who makes the lowest Bid to sell goods and/or services of a quality which** meets or exceeds the quality of goods and/or services set forth in the attached specifications or otherwise required by the County, and who is fit and capable to perform the Bid as made.

To be responsive, a Bidder shall submit a bid which conforms in all material respects to the requirements set forth in the Invitation for Bid. To be a responsible Bidder, the Bidder shall have the capability in all respects to perform fully the Contract requirements, and the tenacity, perseverance, experience, integrity, reliability, capacity, facilities, equipment, and credit which will assure good faith performance. Also, the County reserves the right to make such investigation as it deems necessary to determine the ability of any Bidder to furnish the service requested. Information the County deems necessary to make this determination shall be provided by the Bidder. Such information may include, but shall not be limited to current financial statements, verification of availability of equipment and personnel, and past performance records.

A.15 APPLICABLE LAWS

Bidder must be authorized to transact business in the State of Florida. All applicable laws and regulations of the State of Florida and ordinances and regulations of Manatee County will apply to any resulting agreement. Any involvement with any Manatee County procurement shall be in accordance with Manatee County Purchasing Ordinance as amended. Any actual or prospective Bidder who is aggrieved in connection with the solicitation or award of a Contract may protest to the Board of County Commissioners of Manatee County as required in Manatee County Code of Laws.

A.16 COLLUSION

By offering a submission to this Invitation for Bid, the Bidder certifies that he has not divulged, discussed or compared their Bid with any other Bidder, and has not colluded with any other Bidder or parties to this bid whatsoever. Also, the Bidder certifies, and in the case of a joint Bid each party thereto certifies as to their own organization, that in connection with this Bid:

- a. any prices and/or cost data submitted have been arrived at independently, without consultation, communication, or agreement for the purpose of restricting competition, as to any matter relating to such prices and/or cost data, with any other Bidder or with any competitor;
- b. any prices and/or cost data quoted for this Bid have not been knowingly disclosed by the Bidder and will not knowingly be disclosed by the Bidder, prior to the scheduled opening, directly or indirectly to any other Bidder or to any competitor;
- c. no attempt has been made or will be made by the Bidder to induce any other person or firm to submit or not to submit a Bid for the purpose of restricting competition;
- d. the only person or persons interested in this Bid, principal or principals is/are named therein and that no person other than therein mentioned has any interest in this Bid or in the Contract to be entered into; and
- e. no person or agency has been employed or retained to solicit or secure this Contract upon an agreement or understanding or a commission, percentage, brokerage, or contingent fee excepting bona fide employees or established commercial agencies maintained by Bidder for purpose of doing business.

A.17 CODE OF ETHICS

With respect to this bid, if any Bidder violates, directly or indirectly, the ethics provisions of the Manatee County Purchasing Code and/or Florida criminal or civil laws related to public procurement, including but not limited to Florida Statutes Chapter 112, Part II, Code of Ethics for Public Officers and Employees, such Bidder will be disqualified from eligibility to perform the work described in this Invitation for Bid, and may also be disqualified from furnishing future goods or services to, and from submitting any future bids or supply goods or services to, Manatee County.

By submitting a Bid, the Bidder represents to the County that all statements made and materials submitted are truthful, with no relevant facts withheld. If a Bidder is determined to have been untruthful in its Bid or any related presentation, such Bidder will be disqualified from eligibility to perform the work described in this Invitation for Bid, and may also be disqualified from furnishing future goods or services to, and from submitting any future bids to supply goods or services to, Manatee County.

A.18 BID FORMS

Bids must be submitted on attached County forms, although additional pages may be attached. **Bidders must fully complete all pages of the Bid Forms. Bid Forms must be executed by an authorized signatory who has the legal authority to make the offer and bind the company. Bidders must fully comply with all Bid specifications, terms and condition, including Addenda.** Failure to comply shall result in Contract default, whereupon, the defaulting Contractor shall be required to pay for any and all re-procurement costs, damages, and attorney fees as incurred by the County.

A.19 LEGAL NAME

Bids shall clearly indicate the legal name, address and telephone number of the Bidder. Bids shall be signed above the typed or printed name and title of the signer. The signer must have the authority to bind the Bidder to the submitted Bid.

A.20 PUBLIC CONTRACTING AND ENVIRONMENTAL CRIMES

A person or affiliate who has been placed on the State's convicted vendor list following a conviction for a public entity crime, as that term is defined in Florida Statute § 287.133, may not submit a Bid, Proposal, or reply on a Contract to provide any goods or services to a public entity; may not submit a Bid, Proposal, or reply on a Contract with a public entity for the construction or repair of a public building or public work; may not submit Bids, Proposals or replies 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 Florida Statute § 287.017 for CATEGORY TWO for a period of thirty-six (36) months following the date of being placed on the convicted list.

In addition, the Manatee County Code of Laws prohibits the award of any Contract to any person or entity who/which has, within the past 5 years, been convicted of, or admitted to in court or sworn to under oath, a public entity crime or of any environmental law that, in the reasonable opinion of the Purchasing Official, establishes reasonable grounds to believe the person or business entity will not conduct business in a responsible matter. To insure compliance with the foregoing, the Code requires all persons or entities desiring to Contract with the County to execute and file with the Purchasing Official an affidavit, executed under the pain and penalties of perjury, confirming that person, entity and any person(s) affiliated with the entity, does not have such a record and is therefore eligible to seek and be awarded business with the County. In the case of a business entity other than a partnership or a corporation, such affidavit shall be executed by an authorized agent of the entity. In the case of a partnership, such affidavit shall be executed by the general partner(s). A Public Contracting and Environmental Crimes Certification is attached for this purpose.

A.21 DISCOUNTS

Any and all discounts must be incorporated in the prices contained in the Bid and not shown separately. The prices as shown on the Bid form shall be the price used in determining award.

A.22 TAXES

Manatee County is exempt from Federal Excise and State Sales Taxes. (F.E.T. Exempt Cert. No. 59-78-0089K; FL Sales Tax Exempt Cert. No. 85-8012622206C-6); therefore, the Contractor is prohibited from delineating a separate line item in his Bid for any sales or service taxes. Nothing herein shall affect the Contractor's normal tax liability.

A.23 DESCRIPTIVE INFORMATION

Unless otherwise specifically provided in the specifications, all equipment, materials and articles incorporated in the work covered by this Contract shall be new and of the most suitable grade for the purpose intended. Unless otherwise specifically provided in the specifications, reference to any equipment, material, article or patented process, by trade name, brand name, make or catalog number, shall be regarded as establishing a standard of quality and shall not be construed as limiting competition.

A.24 AMERICANS WITH DISABILITIES ACT

The Board of County Commissioners of Manatee County, Florida, does not discriminate upon the basis of any individual's disability status. This non-discrimination policy involves every aspect of the County functions including one's access to, participation, employment, or treatment in its programs or activities. Anyone requiring reasonable accommodation for an **Information Conference** or **Bid Opening** should contact the person named on the first page of this Bid document at least twenty-four (24) hours in advance of either activity.

A.25 EQUAL EMPLOYMENT OPPORTUNITY CLAUSE

In accordance with the provisions of Title VI of the Civil Rights Act of 1964 and Title 15, Part 8 of the Code of Federal Regulations, Manatee County hereby notifies all prospective offerors that they will affirmatively ensure minority business enterprises will be afforded full opportunity to participate in response to this advertisement and will not be discriminated against on the grounds of race, color or national origin in consideration for an Award of Contract.

A.26 MBE/WBE

The State of Florida, **Office of Supplier Diversity** provides the certification process and the database for identifying certified MBE/WBE firms. This service may be directly accessed at: <http://www.osd.dms.state.fl.us/iframe.htm>. Questions regarding these State services may contact their office at (850) 487-0915.

A.27 MATHEMATICAL ERRORS

In the event of multiplication/extension error(s), the unit price shall prevail. In the event of addition error(s) the extension totals will prevail. All bids shall be reviewed mathematically and corrected, if necessary, using these standards, prior to additional evaluation.

A.28 DISCLOSURE

Upon receipt, all inquiries and responses to inquiries related to this Invitation for Bid becomes "Public Records", and shall be subject to public disclosure consistent with Chapter 119, Florida Statutes.

Bids become subject to disclosure thirty (30) days after the opening or if a notice of intended Award decision is made earlier than this time as provided by F.S. 119.071 (1) (b). No announcement or review of the offer shall be conducted at the public opening.

Based on the above, the County will receive Bids at the date and time stated, and will make public at the opening the names of the business entities of all that submitted an offer and any amount presented as a total offer without any verification of the mathematics or the completeness of the offer.

If the County rejects all Bids and concurrently notices its intent to reissue the solicitation, the rejected Bids are exempt from public disclosure until such time as the County provides notice of an intended decision concerning the reissued solicitation or until the County withdraws the reissued solicitation. A Bid is not exempt for longer than 12 months after the initial notice rejecting all bids.

A.29 LOCAL, STATE AND FEDERAL COMPLIANCE REQUIREMENTS

Bidders shall comply with all local, state and federal directives, orders and laws as applicable to this bid and subsequent contracts.

A.30 BUY AMERICAN REQUIREMENTS

The Buy America Certification form shall be completed and returned with your Bid. Form. This Certificate is made a part of the Invitation for Bid, page 00491-5.

A.31 DAVIS-BACON WAGE DETERMINATION ACT

Davis-Bacon Wage Determination Act for Prevailing Wages , Decision Number FL 130024 / 08/30/2013 FL24 is made a part of this Invitation for Bid.

NOTE: ANY OR ALL STATEMENTS CONTAINED IN THE FOLLOWING SECTIONS: BASIS OF AWARD, TERMS AND CONDITIONS OF THE CONTRACT, OR SPECIFICATIONS, WHICH VARY FROM THE INFORMATION TO BIDDERS, SHALL HAVE PRECEDENCE.

END OF SECTION A

SECTION 00020
BASIS OF AWARD

B.01 BASIS OF AWARD

Award shall be made to the two (2) lowest, responsive and responsible Bidders meeting specifications and having the lowest **Total Bid Price** for the Work as set forth in this Invitation for Bid.

It is the intent of the County to place orders with the lowest priced, responsive, responsible Bidder who satisfies the above requirements; however, the County has reserved the right to place orders with the second low, responsive, responsible Bidder in the event of an urgent, immediate need, in the event the availability of the services requested cannot be met by the lowest priced Contractor at the time of need.

Bid prices shall include costs for furnishing all labor, equipment and/or materials for the completion of the Work in accordance with and in the manner set forth and described in the Contract documents.

Any Agreement, Contract, or Purchase Order resulting from the acceptance of the bid shall be made by a Purchase Order and be bound by the terms and conditions herein.

Whenever two or more bids which are equal with respect to price, quality and service are received, a bid received from a local business shall be given preference in award. Whenever two or more bids which are equal with respect to price, quality and service are received, and neither of these bids is received from a local business, the award shall be determined by a change drawing conducted by the Purchasing Office and open to the public.

Local business is defined as a business legally authorized to engage in the same of the goods and/or services to be procured, and which certifies within its bid that for at least six (6) months prior to the announcement of the solicitation of bids it has maintained a physical place of business in Manatee, Desoto, Hardee, Hillsborough, Pinellas or Sarasota County with at least one full-time employee at that location.

B.02 SUBCONTRACTORS

Subcontractors shall be bound by the terms and conditions of this Contract insofar as it applies to their work, but this shall not relieve the prime Contractor from the full responsibility of the County for the proper completion of all Work to be executed under this Contract.

The employment of unauthorized aliens by any Contractor is considered a violation of Section 273 (e) of the Immigration and Employment Act. If the Contractor knowingly employs unauthorized aliens, such violation shall be cause for unilateral cancellation of this Agreement.

B.03 E-VERIFY

B.03 E-VERIFY

Contractor:

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

B.04 QUALIFICATION OF BIDDERS:

No person who is not certified or registered as a Certified General Contractor **OR** a Certified Builder Contractor pursuant to Florida Statutes, Chapter 489, **OR** a RG/RB **OR** a Mason/Block Contractor who holds a current Certificate of Competency in the County of Manatee on the day the Bid is submitted, and who has continuously held that certification or registration for a period of at least two (2) consecutive years immediately prior to the day the Bid is submitted, may be qualified to bid on this project. In the event that a Bidder is a business organization, including a partnership, corporation, business trust or other legal entity as set forth in F.S. 489.119 (2), then the Bidder shall only be qualified to bid on this project if: 1) the Bidder (the business organization) is on the day the Bid is submitted, and for at least two (2) consecutive years immediately prior to the day the Bid is submitted, has been, in continuous existence, properly licensed and registered as required by Florida law; and 2) the Bidder, on the day the Bid is submitted, has a certified or registered Qualifying Agent, as required by F.S. 489.119, and that Qualifying Agent has been the same Qualifying Agent of the Bidder for a period of at least two (2) consecutive years immediately prior to the day the Bid is submitted.

END OF SECTION B

SECTION 00030
GENERAL TERMS AND CONDITIONS OF THE CONTRACT

C.01 BLANKET ORDER

A master agreement (Blanket Purchase Order (s)) shall be issued as a result of this bid. A Blanket Purchase Order Number, when accompanied by a valid Release Order Number provided by an authorized county representative, will authorize work on an **"as required"** basis, bound by the terms and conditions herein.

The Contractor is not authorized to proceed with, and will not be compensated for, any work that is not authorized by a valid Release Order Number issued by the County's Representative.

C.02 QUANTITIES

Exact quantities of service to be procured under this contract cannot be determined at this time. Orders will be issued on an **"as required basis"**. The quantities listed on the Bid Forms are estimated and only given as a guideline for preparing your bid and should not be construed as representing actual quantities to be purchased.

Perform no work until a valid release order is provided.

C.03 ASSIGNMENT OF CONTRACT

Contract shall not assign, transfer, convey, sublet or otherwise dispose of this Contract or of his right, title, or interest therein, or his power to execute such Contract, or to assign any monies due or to become due thereunder to any other person, firm or corporation unless first obtaining the written consent of the County. The giving of such consent to a particular subcontractor assignment shall not dispense with the necessity of such consent to any further or other assignment.

C.04 DELIVERY TIME

The primary goal of this contract is the speedy of construction of: **1) ADA Boarding Base Pads, 2) ADA Boarding Pads with Shelter Slabs and 3) ADA Boarding Pads with Bench Slabs.**

C.05 CONTRACT TERM

This contract shall be for a period of one (1) year, commencing from date of award, unless renewed or terminated.

C.06 RENEWAL

Provided that there are no changes in prices, terms, or conditions, this contract shall be automatically extended/renewed beyond the first twelve (12) month contract period for an additional twelve (12) month period not to exceed total contract duration of thirty-six (36) months. **Written notice of intention not to renew must be submitted by the Contractor 120 days prior to the end of a contract period.** Should the Contractor choose not to renew the Bid awarded, the County reserves the right to terminate the Contract

Should the Contractor choose not to renew the bid awarded, the County reserves the right to terminate the contract with that Contractor and select the next qualified bidder, or re-advertise or solicit a new Invitation for Bid.

C.07 PRICE ADJUSTMENTS FOR RENEWAL PERIODS

Prices shall remain firm for the first twelve month base contract term. Requested price changes for the remaining terms may be adjusted in accordance with the Bureau of Labor Statistics Consumer Price Index (CPI-U); U.S.A. 1982-84 equals 100. The adjustment shall be calculated by dividing the Index on the anniversary date of the previous year's index and subtracting 1.00. If, on the anniversary date, the Index shows a change from the Index of the previous year, this percentage, not to exceed four (4%) percent annually, will be used to adjust the unit prices Bid.

C.08 CANCELLATION

Any failure of the contractor to furnish or perform the Work (including commencement of the Work, supplying sufficient skilled workers or suitable materials or equipment) in accordance with the contract, the County may order the stop of Work, or any portion thereof, until the cause for such order has been eliminated. If the contractor persistently fails to perform the Work in accordance with the contract, the County reserves the right to terminate the contract and select the next qualified bidder or re-advertise this procurement in part or as a whole.

It is mutually understood and agreed that any award made as a result of this bid may be cancelled by the contractor upon 90 days written notice by Certified Mail to the County. However, the County is hereby authorized to purchase, in accordance with the prices bid, any quantity of materials and / or services during this 90 day period.

The County reserves the right to terminate a contract by giving 30 days written notice of intention to terminate if at any time the contractor fails to abide by or fulfill any of the terms and conditions of the contract. The County also reserves the right to terminate this contract for the convenience of the County, with or without cause.

C.09 LIQUIDATED DAMAGES

If the Contractor refuses or fails to prosecute the Work, or any separable part thereof, with such diligence as will hinder its completion within the time specified, the County may seek damages. The actual damages for delay will be impossible to determine and in lieu thereof, the Contractor shall pay to the County the sum of **\$100.00** as fixed, agreed, and liquidated damages for each calendar day of the delay until the Work is finally accepted by the County and the Contractor and his Surety shall be liable for the amount thereof.

C.10 PAYMENT AND INVOICING

Within forty-five (45) days after services have been rendered, and the acceptance by the County, and presentation of an appropriate invoice, the County shall pay the total amount due. Payment invoices must indicate both the blanket purchase order number and the release order number. Not having both on the invoice may delay the processing of payment. Contractor may apply for partial payment on monthly basis, based on the amount of work completed in compliance with the provisions of the contract.

The Contractor agrees to furnish an affidavit stating that all laborers, material men, and subcontractors have been paid on the project for Work covered by the application for payment and that a partial or complete release of lien, as may be necessary, be properly executed by the material men, laborers, subcontractors on the project for Work covered by the application for payment, sufficient to secure the County from any claim whatsoever arising out of the aforesaid Work.

All Pay Applications:

Shall be submitted with a Construction Project Photo and shall reference in detail, the name and address of the project location, the Bus Stop ID Number, the Condition Typical Number (for example: ADA Boarding Pads, Condition 1, Boarding Pads w/ Shelter Slabs, Condition 4, Boarding Pads w/ Bench Slabs, Condition 10), the Blanket Purchase Order Number, the Release Number, and the quantity for each item to complete the release.

Release Orders over \$100,000.00 Payment, Performance Bonds:

The Contractor shall add as a separate entry on the submitted Pay Application, the cost of the bonding with supporting invoice.

C.11 BI-WEEKLY REPORTS

The Contractor shall be required to submit a **Bi-Weekly Report** that summarizes the Work completed at the end of each two week period.

The Bi-Weekly Report shall be submitted at the end of each two week period during the construction project (even when no Work is done), between the time a Release Order is issued and the time of Final Acceptance of the completed project. The Bi-Weekly Report shall be submitted by 3:00 p.m. on the first Monday following a two week period. This report shall be provided via hardcopy, fax or email.

C.12 WARRANTY AND GUARANTEE PROVISIONS

All work, materials, and equipment furnished as defined herein shall be guaranteed and warranted by the Contractor for a minimum period of **one (1) year** unless otherwise specified, from final acceptance by the County to be free from defects due either to faulty materials or equipment or faulty workmanship.

All materials, equipment, and workmanship furnished and installed by the Contractor is warranted and guaranteed by the Contractor to meet the required standards and to accomplish the purposes and functions of the project as defined, detailed, and specified herein.

The County shall, following discovery thereof, promptly give written notice to the contractor of faulty materials, equipment, or workmanship within the period of the guarantee and the contractor shall promptly replace any part of the faulty equipment, material, or workmanship at his own cost. These warranty and guarantee provisions create no limitations on the County as to any claims or actions for breach of guaranty or breach of warranty that the County might have against parties other than the contractor, and do not constitute exclusive remedies of the County against the contractor.

C.13 AUTHORIZED PRODUCT REPRESENTATION

The Contractor, by virtue of submitting the name and specifications of a manufacturer's product, will be required to furnish the named manufacturer's product. Failure to perform accordingly may, in the County's sole discretion, be deemed a breach of contract, and shall constitute grounds for immediate termination of the contract.

C.14 REGULATIONS

It shall be the responsibility of the bidder to assure compliance with any OSHA, EPA and/or other federal or state of Florida rules, regulations or other requirements, as each may apply.

C.15 INDEMNIFICATION

The Contractor covenants and agrees to indemnify and save harmless the County, its agents and employees, from and against all claims, suits, actions, damages, causes of action, or judgments arising out of the terms of the resulting agreement for any personal injury, loss of life, or damage to the property sustained as a result of the performance or non-performance of services or delivery of goods; from and against any orders, judgments, or decrees, which may be entered against the County, its agents or employees; and from and against all costs, attorney's fees, expenses and other liabilities incurred in the defense of any such claim, suit or action, and the investigation thereof. Nothing in the award, resulting agreement, contract or Purchase Order shall be deemed to affect the rights, privileges and immunities of the County as set forth in Florida Statute Section 768.28.

C.16 MANUALS, SCHEMATICS, HANDBOOKS (IF APPLICABLE)

All manuals, schematics and handbooks shall be provided which are applicable to the equipment delivered. An operators manual, parts manual and technician manual must also be provided. Parts lists (manuals) must include OEM part numbers for items not manufactured by the bidder. Contractor shall furnish two (2) copies of each.

C.17 ROYALTIES AND PATENTS

The Contractor shall pay all royalties and license fees for equipment or processes in conjunction with the equipment and/or services he is furnishing. Contractor shall defend all suits or claims for infringement of any patent, trademark or copyright, and shall save the County harmless from loss on account thereof, including costs and attorney's fees.

C.18 INSURANCE

The Contractor will not commence work under a Contract until all insurance under this section and such insurance coverage as might be required by the County has been obtained. The Contractor shall obtain, and submit to the Purchasing Division within ten (10) calendar days of request, at his expense, the following minimum amounts of insurance (inclusive of any amounts provided by an umbrella or excess policy):

a. Workers' Compensation/Employers' Liability

Part One - There shall be no maximum limit (other than as limited by the applicable statute) for liability imposed by Florida Workers' Compensation Act or any other coverage required by the Contract documents which are customarily insured under Part One of the standard Workers' Compensation Policy.

C.18 INSURANCE(Continued)

Part Two - The minimum amount of coverage required by the Contract documents which are customarily insured under Part Two of the standard Workers' Compensation Policy shall be:

<u>\$100,000</u>	(Each Accident)
<u>\$500,000</u>	(Disease-Policy Limit)
<u>\$100,000</u>	(Disease-Each Employee)

b. Commercial General Liability

The limits are to be applicable only to work performed under this Contract and shall be those that would be provided with the attachment of the Amendment of Limits of Insurance (Designated Project or Premises) endorsement (ISO Form CG 25 03) a Commercial General Liability Policy with the following minimum limits.

General Aggregate:	<u>\$1,000,000</u>
Products/Completed Operations Aggregate	<u>\$1,000,000</u>
Personal and Advertising Injury	<u>\$1,000,000</u>
Each Occurrence	<u>\$1,000,000</u>
Fire Damage (Any One Fire)	<u>\$Nil</u>
Medical Expense (Any One Person)	<u>\$Nil</u>

ADDITIONAL INSURED: Manatee County, a political subdivision of the State of Florida shall be specifically named as additional insured on the Commercial General Liability Policy.

c. Business Auto Policy

Each Occurrence Bodily Injury and	
Property Damage Liability Combined	<u>\$ 300,000</u>
Annual Aggregate (if applicable):	<u>\$1,000,000</u>

ADDITIONAL INSURED: Manatee County, a political subdivision of the State of Florida shall be specifically named as additional insured on the Business Auto Policy.

d. County Protective Liability Coverage

The minimum OPC Policy limits per occurrence and, if subject to an aggregate, annual aggregate to be provided by the Contractor shall be the same as the amounts shown above as the minimum per occurrence and general policy aggregate limits respectively required for the Commercial General Liability coverage. The limits afforded by the OPC Policy and any excess policies shall apply only to the County and the County officials, officers, agents and employees and only to claims arising out of or in connection with the Work under this Contract.

C.18 INSURANCE(Continued)

e. Property Insurance

If this Contract includes construction of or additions to above ground buildings or structures, Contractor shall provide "**Builder's Risk**" insurance with the minimum amount of insurance to be 100% of the value of such addition(s), building(s), or structure(s).

f. Installation Floater

If this Contract does not include construction of or additions to above ground building or structures, **but does involve** the installation of machinery or equipment, Contractor shall provide an "**Installation Floater**" with the minimum amount of insurance to be 100% of the value of such addition(s), building(s), or structure(s).

g. Certificates of Insurance and Copies of Policies

Certificates of Insurance in triplicate evidencing the insurance coverage specified herein shall be filed with the Purchasing Official before operations are begun. The required certificates of insurance shall name the type of policy, policy number, date of expiration, amount of coverage, companies affording coverage, and also shall refer specifically to the Bid number and title of the project. All insurance policies required herein shall be issued by companies that are authorized to do business under the laws of the State of Florida and hold an A.M. Best rating of A- or better. Insurance, as specified herein, shall remain in force and effect for the duration of the project including any warranty periods.

h. **Complete Policies:** The entire and complete insurance policies required herein shall be provided to the County on request.

If the initial insurance expires prior to the completion of operations and/or services by the Contractor, renewal certificates of insurance and required copies of policies shall be furnished by the Contractor and delivered to the Purchasing Official thirty (30) days prior to the date of their expiration. Nothing herein shall in any manner create any liability of the County in connection with any claim against the Contractor for labor, services, or materials, or of Subcontractors; and nothing herein shall limit the liability of the Contractor or Contractor's sureties to the County or to any workers, suppliers, material men or employees in relation to this Contract.

i. Certification Requirements - In order for the certificate of insurance to be accepted it must comply with the following:

1. The certificate holder shall be:

**Manatee County Board of Commissioners, a political subdivision
of the State of Florida
P.O. Box 1000
Bradenton, FL 34206-1000**

C.18 INSURANCE(Continued)

2. Certificate shall be mailed to:
Manatee County Purchasing Division
1112 Manatee Avenue West, Suite 803
Bradenton, FL 34205
Attn: Olga Valcich, CPPB, Contract Specialist
Email: olga.valcich@mymanatee.org

j. By way of its submission of a Bid hereto, Bidder:

1. Represents that Bidder maintains, and will maintain during the term of any Contract arising from this solicitation, insurance coverage from responsible companies duly authorized to do business in the State of Florida, as set forth in this solicitation; and
2. Agrees that upon County's request, appropriate evidence of the insurance requirements set forth in this solicitation will be produced by Bidder within ten (10) calendar days from the date of Notice of Intent to Award.
3. Agrees that, insurance should not be cancelled without thirty (30) days notice to County and must be endorsed to provide same. Failure of Bidder to obtain and maintain proper amounts of insurance as called for herein shall constitute a material breach of Contract by the successful Bidder.

C.19 PERFORMANCE AND PAYMENT BONDS PER RELEASE ORDER for construction involving \$100,000.00

At the discretion of the Project Manager, based upon the release order location and complexity of the project, an executed public construction bond may need to be made a part of the release order. When a release is \$100,000.00 up to a maximum threshold of \$299,999.99, a recorded executed surety bond per F.S. 255.05 may be required to be in place prior to commencement of the awarded work.

The Performance and Payment Bonds shall be issued to Manatee County, a political subdivision in the State of Florida. The Surety of such bonds shall be in an amount equal to the release order awarded (100% each) issued by a duly authorized and nationally recognized surety company, authorized to do business in the State of Florida, satisfactory to this County. The attorney-in-fact who signs the bonds must file with the bonds a certificate and effective dated copy of power-of-attorney. Performance and Payment bonds shall be issued within ten (10) calendar days after notification of the release order.

In addition, pursuant to F.S. 255.05 (1) (b), prior to commencing work, the Contractor shall be responsible and bear all costs associated to record the Performance and Payment bond with the Manatee County Clerk of the Circuit Court.

C.19 PERFORMANCE AND PAYMENT BONDS PER RELEASE ORDER for construction involving \$100,000.00 (Continued)

A certified copy of said recording shall be furnished to the Purchasing Division upon filing. Pursuant to F.S. 255.05 (1) (b), the County will make no payment to the Contractor until the Contractor has complied with this paragraph. Furnishing of the recorded Performance and Payment bonds shall be requisite to execution of a release order over \$100,000.00 with the County. Said Performance and Payment bonds will remain in force for the duration of the release order over \$100,000.00 with the premiums paid by the Contractor. Failure of the successful Bidder to supply the required bonds shall be just cause for cancellation of the release order award. The County may then contract with another acceptable bidder.

C.20 NO DAMAGES FOR DELAY

No claim for damages or any claim other than for an extension of time shall be made or asserted against the County by reason of any delays. The Contractor shall not be entitled to an increase in the Total Contract Price or payment or compensation of any kind from the County or direct, indirect, consequential impact or other costs, expenses for damages, including but not limited to costs of acceleration or inefficiency arising because of delay, disruption, interference or hindrance from any cause whatsoever; provided, however, that this provision shall not preclude recovery or damages by the Contractor for hindrance or delays due solely to fraud, bad faith, or active interference on part of the County or its agents. Otherwise, the Contractor shall only be entitled to extensions of the Contract Time as the sole and exclusive remedy for such resulting delay, in accordance with and to the extent specifically provided above.

C.21 NO INTEREST

Any monies not paid by the County when claimed to be due to the Contractor under this Contract shall not be subject to interest including prejudgment interest. Any monies not paid by the County when claimed to be due to the Contractor for damages awarded in the case of construction delays shall not be subject to prejudgment interest.

C.22 CONSTRUCTION OF CONTRACT

This Contract and the rights and responsibilities hereunder shall not be construed more strongly against either party, regardless of the extent to which such party may have participated in the preparation hereof.

C.23 WORK AUTHORIZATION

Any work authorized for procurement under this contract shall be on an **"as required"** basis at various locations within the County. The Contractor is not authorized to proceed with, and will not be compensated for, any work that is not authorized by a valid Release Order Number issued by the County. All work shall be scheduled with the County's Representative. The Contractor shall be given a scope of work for each project and shall be required to visit the work site. After considering the scope and the site of the work, the Contractor shall submit a proposal to the County for completing the work. The proposal shall reflect the work items required to complete the work, the number of calendar days to complete the work and the total price to complete the work required in accordance with the attached Bid Form.

The County reserves the right to disapprove the Proposal and shall have no obligation to issue a Release Order for the work.

If during performance of the Work additional work is determined to be required, a written change order must be provided to the County for approval before any additional work is performed.

If additional quantities are required to complete the work, a "revised" release order detailing the additional work will be issued. It shall be the Contractor's responsibility to advise the County and obtain prior approval for additional quantities to be utilized beyond those specified in the release order.

C.24 PROJECT SCHEDULE

As Release Orders are issued under the Blanket Purchase Order for the **Construction of ADA Boarding Pads, ADA Boarding Pads w/ Shelter Slabs and ADA Boarding Pads w/ Bench Slabs**, individual project schedules will need to be supplied by the Contractor and approved by the County for each project.

C.25 PRICES & TERM

Bidders shall Bid unit prices, F.O.B. Destination, including all discounts in accordance with unit of quantity indicated on Bid Form. The prices Bid shall be used for payment and shall be deemed to include payment in full for all transportation, labor, and equipment used in delivering all supplies and materials to the point of delivery.

C.26 BE GREEN

All Contractors/Bidders/Quoters/Proposers (*as applicable*) are encouraged to use as many **environmentally preferable** "green" products, materials, supplies, etc. as possible in order to promote a safe and healthy environment. **Environmentally preferable are products or services that have a reduced adverse effect on the environment.** Provide detail of your organization's initiative and its ability to meet the goal of environmental sustainability.

C.27 MATERIAL/SAFETY DATA SHEET

It shall be the responsibility of the awarded bidder(s) to submit, upon notification of award, a Material Safety Data Sheet (MSDS) for all toxic substances in accordance with Florida Statutes Chapter 442, The Right To Know Law, which mandates on-site MSDS for all toxic substances appearing in the work place.

C.28 REGULATIONS

It shall be the responsibility of the Bidder to assure compliance with any OSHA, EPA and/or other Federal or State of Florida rules, regulations or other requirements, as each may apply.

END OF SECTION C

SECTION 00100
BID SUMMARY

D.01 THE WORK

It is the intent of the Manatee County to establish an annual contract for the entire Transit Division Fleet to procure the services of a Certified General Contractor or a Certified Builder Contractor, on an "**as required**" basis, for the construction of concrete 1) ADA Boarding Base Pads, 2) ADA Boarding Pads w/ Shelter Slabs and 3) ADA Boarding Pads w/ Bench Slabs throughout various locations of the County in accordance with the specifications, plans, terms and conditions of this Invitation for Bid. Specific Bus Stops for improvements will be provided to the successful Contractor.

The Contractor shall furnish all shop drawings, working drawings, labor, materials, equipment, tools, services and incidentals necessary to complete all work required by these specifications

The Contractor shall perform the work complete, in place and ready for continuous service and shall include any repairs, replacements, and/or restoration required as a result of damages caused prior to acceptance by the Owner.

The Contractor shall furnish and install all materials, equipment and labor which is reasonably and properly inferable and necessary for the proper completion of the work whether specifically indicated in the Contract Documents or not.

D.02 SUBCONTRACTORS, SUPPLIERS AND OTHERS

The identity of subcontractors, suppliers, and other persons and organizations (including those who are to furnish the principal items of material and equipment) may be requested by the County for each bid item from any of the bidders; and the bidder shall respond within five days after the date of such request. Such list shall be accompanied by an experience statement with pertinent information regarding similar projects and other evidence of qualification for each such subcontractor, supplier, persons or organization if requested by County. If County, after due investigation, has reasonable objection to any proposed subcontractor, supplier, other person or organization, County may, before the Notice of Award is given, request the apparent successful bidder to submit an acceptable substitute without an increase in Contract Price or Contract Time.

If apparent successful bidder declines to make any such substitution, County may award the Contract to the next lowest qualified bidder that proposes to use acceptable subcontractors, suppliers, and other persons who County does not make written objection to Contractor shall not be required to employ any subcontractor, supplier, other person or organization who Contractor has reasonable objection to. Subcontractors shall be bound by the terms and

D.02 SUBCONTRACTORS, SUPPLIERS AND OTHERS (Continued)

conditions of this Contract insofar as it applies to their Work, but this shall not relieve the prime Contractor from the full responsibility to the County for the proper completion of all Work to be executed under this Contract.

Contractor shall supply a list to the department requestor when required providing a description of the work which shall be performed for each blanket release order issued by the proposed subcontractors along with the names and locations of the subcontractors at the time of award of the Blanket Release Order when applicable.

D.03 BIDS

Bids are to be submitted in **triplicate, one original and two copies**, upon the County supplied forms. All blank spaces must be filled in as noted with amounts extended and totaled and no changes shall be made in the wording of the forms or in the items mentioned therein. In the event a change is made in your submittal, the bidder shall write its initials by the change. Any bid may be rejected which contains any omissions, alterations, irregularities of any kind, or which shall in any manner fail to conform to bid requirements.

A bid made by an individual, either in his/her own or proper person or under a trade or firm name, shall be executed under the individual's signature. If made by a partnership, the bid shall be executed by two or more of the general partners. If made by a corporation, the bid shall be executed by its President or other legally authorized corporate officer or agent.

D.04 PERMITS/FEES/REGULATIONS

Contractor shall be required to give all necessary notices, obtain all permits and inspections, and pay all costs in connection with the work. Contractor shall assure compliance with any OSHA, EPA, and/or federal, state, and local rules, regulations. Any conflicts between the specifications and code shall be brought to the attention of the County's representative and resolved before the work is continued.

The Contractor shall give all notices and comply with all laws bearing on the conduct of the work as drawn and specified. If the Contractor observes that the drawings and specifications are at variance therewith, Contractor shall promptly notify the County in writing, and any necessary changes shall be made. If the Contractor performs any work contrary to such laws, ordinances, rules, and regulations and does not comply with the aforesaid procedure, Contractor shall bear all costs incidental to such violation.

All Work required to be performed on FDOT Roads shall in accordance with the latest FDOT Standards.

D.05 MATERIALS AND WORKMANSHIP

All materials and apparatus required for this Work, except as specifically specified otherwise, shall be new, of first class quality, and shall be furnished, delivered, connected and finished in every detail. Construction shall be prescribed by good industry practice and in accordance with manufacturer's recommendations for the type being installed.

Use skilled workman trained and experienced in the necessary trades and who are completely familiar with the specified requirements and the methods needed for proper performance of the Work of this section.

D.06 REGULATIONS AND MATERIAL DISPOSAL

It shall be the responsibility of the Contractor to assure compliance with any OSHA, EPA, federal, state, and/or local rules, regulations or other requirements as each may apply.

D.07 LAYOUT OF WORK

The Contractor, where required, shall set construction stakes and batter boards for establishing lines, position of structures, slopes, and other controlling points necessary for the proper prosecution of the work. The stakes, as set, will be checked and approved by the County before construction is commenced.

These stakes and marks shall constitute the field control by and in accord with which the Contractor shall govern and execute the work. The Contractor will be held responsible for the preservation of all stakes and marks; and, if for any reason any of the stakes or marks or batter boards become destroyed or disturbed, they will be immediately and accurately replaced by the Contractor at no additional expense to the County.

D.08 WORKING HOURS

No Work shall be done between 7:00 p.m. and 7:00 a.m. nor on weekends or legal holidays without written permission of the County. However, emergency work may be done without prior permission.

If the proper and efficient prosecution of the work requires operations during the night or weekends, the written permission of the County shall be obtained before starting such items of the work.

Such permission, however, may be revoked at any time by the County if the Contractor fails to maintain adequate equipment and supervision for the proper execution and control of the work at night.

D.09 OVERTIME WORK

Only work specified by the County as requiring overtime work hours will be subject to an overtime surcharge. Any work done by the Contractor during overtime hours, but not specified as required by the County will be considered normal hours and normal hourly rates (s) shall be applied. Overtime work shall be defined as that work performed on Sundays and national holidays and all work performed between the hours of 7:00 P.M. and 7:00 A.M. Bidders shall include a per hour surcharge on the bid form that will include all equipment materials, labor and (MOT) required to take all the necessary precautions for the protection of the work and the safety of the public.

D.10 WARNING SIGNS AND BARRICADES

The Contractor shall provide adequate signs, barricades, flashing lights, flagmen and watchmen, and take all necessary precautions for the protection of the work and the safety of the public. Traffic control warning signs and barricades shall be in strict accordance with the provisions of the Florida Department of Transportation Manual on Traffic Controls and Safety Practices for Street and Highway Construction, Maintenance and Utility Operations (latest revision). All barricades and obstructions shall be protected at night by flashing signal lights which shall be of substantial construction and suitable for night visibility. Suitable warning signs shall be so placed and illuminated at night as to show in advance where construction, barricades, or detours exist. All work items are to include the cost of signing and traffic maintenance, except as related to shell and base preparation over 100' or overnight.

D.11 PUBLIC SAFETY AND CONVENIENCE

The Contractor shall at all times so conduct his work as to insure the least possible obstruction to traffic and inconvenience to the general public and the residents in the vicinity of the work and to insure the protection of persons and property in a matter satisfactory to the County. No road or street shall be closed to the public except with the permission of the County and proper governmental authority. Fire hydrants on or adjacent to the work shall be kept accessible to fire-fighting equipment at all times. Temporary provisions shall be made by the Contractor to insure the use of sidewalks and proper functioning of all gutters, sewer inlets, drainage ditches, and irrigation ditches. All public emergency agencies (i.e., fire, medical, police, etc.) shall be furnished a list of all street closing locations and durations at least 48 hours in advance of construction closing.

D.12 PROTECTION OF WORK, PERSONS, AND PROPERTY

The Contractor shall continuously maintain adequate protection of all work from damage and shall protect all property from injury or loss arising in connection with the contract. Contractor shall make good any such damage, injury or loss, except such as may be directly due to error in contract documents. Contractor shall provide, protect, and maintain all passageways, guard fences, lights, and other facilities required by public authority or local conditions.

Contractor shall provide reasonable maintenance of traffic ways for the public and preservation of the continuation of the County's business taking into full consideration all local conditions. Contractor shall comply with Florida Department of Commerce Safety Regulations and any local safety regulations.

D.13 CLEAN UP

The Contractor shall keep the construction site free of rubbish and waste materials and restore to their original condition those portions of the site not designated for alteration by the scope of work. Clean up and restoration shall be accomplished on a continuing basis throughout the contract period and in such a manner as to maintain a minimum of nuisance and interference to the general public and residents in the vicinity of the work. The Contractor shall remove, when no longer needed, all temporary structures and equipment used in his operations. It is the intent of this specification that the construction areas and those other areas not designated for alteration by the scope of work be restored to their original condition or as nearly as possible.

D.14 TESTING

The Contractor shall be responsible for the services of an Independent Testing Laboratory to perform testing of concrete in accordance with the specifications provided for in this Invitation for Bid.

A copy of the accepted Testing Certification shall be provided to the Project Manager.

END OF SECTION D

ATTACHMENT 'A'

SPECIFICATIONS

Division 1 - Division 16

**ADA BOARDING, BASE PADS
ADA BOARDING PADS W/SHELTER SLABS
ADA BOARDING PADS W/ BENCH SLABS**

**MANATEE COUNTY PUBLIC WORKS
1022 26th Avenue East
Bradenton, FL 34208**

September, 2013

Specifications
Division 1 - Division 16

ADA BOARDING, BASE PADS
ADA BOARDING PADS SHELTER SLABS
ADA BOARDING PADS W/ BENCH SLABS

**MANATEE COUNTY PUBLIC WORKS
1022 26th Avenue East
Bradenton, FL 34208**

September, 2013

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ADA BOARDING PAD PROJECT**

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Section 01300 - Submittals
Section 01305 - Modification Procedures
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DIVISION 3 - CONCRETE

Section 03000 - Concrete

DIVISION 4 - NOT APPLICABLE

DIVISION 5 - NOT APPLICABLE

DIVISION 6 - NOT APPLICABLE

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DIVISION 10 - NOT APPLICABLE

DIVISION 11 - NOT APPLICABLE

DIVISION 12 - NOT APPLICABLE

DIVISION 13 - NOT APPLICABLE

DIVISION 14 - NOT APPLICABLE

DIVISION 15 - NOT APPLICABLE

DIVISION 16 - NOT APPLICABLE

**END
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SECTION 01005

ADMINISTRATIVE PROVISIONS

PART 1 **GENERAL**

1.01 **WORK COVERED BY CONTRACT DOCUMENTS**

- A. The Base Bid shall be all Work associated with the construction of a site specific Americans with Disabilities Act (ADA) bus boarding pad for the Manatee County Public Works Department located in Manatee County, Florida.

There are three (3) separate packages and bid forms. Package 1 is for ADA Boarding Pads Base Bid. Package 2 is for ADA Shelter Pads w/ Shelter Slabs. Package 3 is for ADA Shelter Pads w/ Bench Pads. The Packages are indicated on the 11"x17" drawings and specifications.

- B. All applicable work shall conform to the 2010 Florida Building Code and all current editions, Americans with Disabilities Act and all applicable codes and ordinances.

1.03 **SEQUENCE OF CONSTRUCTION**

- A. The site work and construction shall be coordinated with the Manatee County.

1.04 **COORDINATION**

- A. Coordinate work of the various Sections of Specifications to assure efficient and orderly sequence of installation of construction elements, with provisions for accommodating items installed later.

1.05 **FIELD ENGINEERING**

- A. The Contractor shall provide field engineering services; establish grades, lines and levels, by use of recognized engineering survey practices by a contractor furnished and paid for Florida registered, licensed surveyor, as required for this project.
- B. Control datum for survey is that shown on Drawings. The Contractor shall locate the reference points and the Contractor shall protect and control those points.

1.06 **REFERENCE STANDARDS**

- A. For products specified by association or trade standards, comply with requirements of the standard, except when more rigid requirements are specified or are required by applicable codes.
- B. The date of the standard and/or code is that in effect as of the contract date, except when a specific date is specified.

1.07 **CONFLICTS IN THE DOCUMENTS**

- A. Should conflicts arise between the contract documents and the specifications, the contractor shall report the discrepancy to the owner.
- B. Should conflicts arise between the contract documents and the specifications, the more stringent criteria shall apply. If this does not apply, the specifications shall take precedence.

PART 2 **PRODUCTS**

Not Used.

PART 3 **EXECUTION**

Not Used.

END OF SECTION

SECTION 01019

CONTRACT CONSIDERATIONS

PART 1 GENERAL

1.01 CONTRACTOR WARRANTIES

- A. The County shall also require the successful Contractor to represent and warrant that:
1. The construction schedule and budget include reasonable contingencies and reserves for design and plan revision, modifications, coordination, clarification or interpretation that may reasonably be anticipated on a project of this type.

Clarification: No specific contingency amount will be determined by the County. Pricing provided by the Contractor shall include all costs for furnishing all labor, equipment and / or materials, incidentals required for the completion of the Work in accordance with and in the manner set forth and described in the Contract documents.
 2. Construction plans and specifications are two dimensional instruments of professional service and usually require some degree of revision, interpretation, coordination, clarification or modification as actual construction presents them in three dimensions during the construction phase.
 3. The County and the Architect have exercised reasonable care in endeavoring to coordinate the architectural, mechanical and structural design into a cohesive set of plans and specifications. However, the General Contractor acknowledges that it is not possible to address every element of coordination during the design process and some coordination errors or deficiencies probably will be encountered during the construction phase of the project.

1.02 APPLICATIONS FOR PAYMENT

- A. Each Application for Payment shall be consistent with the previous applications and payments as reviewed by the County's representative and paid for by the County.
1. The initial Application for Payment, the Application for Payment at time of Substantial Completion, and Final Application for Payment involve additional requirements. See items G, I, J and K of this section.
- B. Payment Application Forms: Use the Manatee County's most updated form as the form for Application for Payment. Form given at the Preconstruction Conference.
- C. Application Preparation: Complete every entry on the form, including notarization and execution by person authorized to sign legal documents on behalf of the County. Incomplete applications will be returned without action.
1. Entries shall match data on the Bid Form data.
 2. Include amounts of Change Orders and Construction Change Directives issued prior to the last day of the construction period covered by the application.

- E. Transmittal: Submit three (3) original executed copies of each Application for Payment to the Project Manager by means ensuring receipt within 24 hours; one copy shall be complete, including waivers of lien and similar attachments, when required.
 - 1. Transmit each copy with a transmittal form listing attachments, and recording appropriate information related to the application in a manner acceptable to the Project Manager
- F. Waivers of Mechanics Lien: With each Application for Payment submit waivers of mechanics liens form subcontractors and suppliers for the construction period covered by the previous application.
 - 1. Submit partial waivers on each item for the amount requested, prior to deduction of retainage on each item.
 - 2. When an application shows completion of an item, submit final or full waivers.
 - 3. The County reserves the right to designate which entities involved in the work must submit waivers.
 - 4. List all Subcontractors start and finish dates to substantiate any Notice to owner received by the Project manager.
- G. Pictures of the work areas shall be included with each Application for Payment per location.
- H. Initial Application for Payment: Administrative actions and submittals that precede or coincide with the submittal of the first Application for Payment include the following:
 - 1. List of principal subcontractors.
 - 2. List of principal suppliers.
 - 3. Schedule of Values
 - 4. Approved Contractor Construction Schedule (preliminary if not final).
 - 5. Schedule of principal products
 - 6. Schedule of unit prices (if applicable).
 - 7. Submittal schedule (preliminary if not final).
 - 8. List of Contractor's staff assignments.
 - 9. Copies of building permits for trades requiring separate permits.
 - 10. Copies of authorizations and licenses from governing authorities for performance of the Work.
 - 11. Initial progress report.
 - 12. Report of Pre-construction Meeting.
 - 13. Initial settlement survey and damage report (if required).
 - 14. Listing of all long lead procurement items monthly applications for payment will be accompanied with updated schedule and review of as-built drawings.
- I. Interim Application for Payment: Payment will be processed once a month. No applications will be processed without receipt of previous month's waiver of liens described in subsection F above. Payment for item will be based on percentage completed as determined and approved by the County Project Manager or Invoice for store materials. Retainage (10%) will be held for all interim applications.
- J. Administrative actions and submittals that shall proceed or coincide with Substantial Completion Payment. Substantial Completion as defined per the County's **General Conditions** and shall include:

1. Occupancy permits and similar approvals
 2. Warranties (guarantees) and maintenance agreements. The warranty shall be for one (1) year from acceptance of each shelter slab.
 3. Change-over information related to Owner's occupancy, use, operation and maintenance.
 4. Final cleaning.
 5. Application for reduction of retainage and consent of surety.
 6. List of incomplete Work, recognized as exceptions to Project Manager Certificate of Substantial Completion.
- K. Final payment Application: Administrative actions and submittals which must precede or coincide with submittal of final payment. Application for Payment includes the following:
1. Completion of Project Close-out requirements.
 2. Completion of items specified for completion after Substantial Completion
 3. Assurance that unsettled claims will be settled.
 4. Assurance that all work has been completed and accepted.
 5. Proof that taxes, fees and similar obligations have been paid.
 6. Removal of surplus materials, rubbish and similar elements.

PART 2 **PRODUCTS**

Not used.

PART 3 **EXECUTION**

Not used.

END OF SECTION

SECTION 01200

COORDINATION AND MEETINGS

PART 1 GENERAL

1.01 COORDINATION

- A. Coordinate scheduling, submittals and work of the various Sections of Specifications to assure efficient and orderly sequence of installation of interdependent construction elements with provisions for accommodating items installed later.
- B. Coordinate completion and clean up of work of separate sections in preparation for Substantial Completion.

1.02 FIELD ENGINEERING

- A. The Contractor shall provide and pay for all surveying.
- B. The Contractor shall locate and protect survey control and reference points.
- C. Control datum for survey is that established by County provided survey and shown on Drawings.
- D. The Contractor shall provide field engineering services. Establish elevations, lines, and levels, utilizing recognized engineering survey practices.

1.03 PRECONSTRUCTION CONFERENCE

- A. County will schedule a conference after Notice of Award.
- B. Attendance Required: County and Contractor.
- C. Minimum Agenda:
 - 1. Verification of need for additional Contract Documents.
 - 2. Submission of list of Subcontractors, list of Products, schedule of values, and progress schedule.
 - 3. Designation of personnel representing the parties in Contract and County.
 - 4. Procedures and processing of field decisions, submittals, substitutions, applications for payments, proposal request, Change Orders and Contract closeout procedures.
 - 5. Scheduling.
 - 6. Construction site access.

1.04 PROGRESS MEETINGS

- A. Schedule and administer weekly meetings throughout progress of the work.

- B. Make arrangements for meetings, prepare agenda with copies for participants, preside at meetings, record minutes, and distribute copies within three days to the County, participants, and those affected by decisions made.
- C. Provide an updated schedule at every meeting, address areas of work (especially critical path tasks) and corrective action to be taken
- D. Attendance Required: Project manager, Superintendent, and County.
- E. Agenda:
 - 1. Review minutes of previous meetings.
 - 2. Contractors report.
 - 3. Review of schedule
 - 4. Review of old business.
 - 5. New business.

PART 2 **PRODUCTS**

Not used.

PART 3 **EXECUTION**

Not used.

END OF SECTION

SECTION 01300

SUBMITTALS

PART 1 GENERAL

1.01 SUBMITTAL PROCEDURES

- A. Transmit each submittal package per Specification Section with County approved transmittal form. All submittals that do not include total package per specification section will be returned un-reviewed. Each submittal shall include the specification number followed by the sequential submittal number.
- B. Re-submittals are to have original number with an alphabetic suffix noting the original status of the submittal, such as R-1, R-2, etc.
- C. Identify Project, Contractor, Subcontractor or supplier; pertinent Drawing sheet and detail number(s), and Specification Section number, as appropriate.
- D. On each submittal and copy apply Contractor's stamp, signed or initialed certifying that review, verification of products required, field dimensions, adjacent construction work, and coordination of information, is in accordance with the requirements of the work and Contract Documents.
- E. Schedule submittals to expedite the Project according to approved schedule, and deliver to address provided by the. Coordinate submission of related items. Forward a copy of entire submittal to County.
- F. Identify variations from Contract Documents which may be detrimental to successful performance of the completed work. Failure to identify variations will be considered to mean that the Contractor intends to install the work with no variation from the Contract Documents.
- G. Revise and resubmit submittals as required, identify all changes made since previous submittal. Re-submittals shall have original submittal number with suffix letter as noted in B above.
- I. Distribute copies of reviewed submittals to all suppliers and subcontractors impacted by the submittal. Do not allow work to be done using un-reviewed submittals. Instruct suppliers and subcontractors to promptly report any inability to comply with provisions.

1.02 SHOP DRAWINGS

- A. Submit 3 sets of all shop drawing, 2 of which will be retained by the County. Provide additional shop drawings as required to be returned for the proper coordination of the work with suppliers and subcontractors. The exact number of shop drawings will be verified at the pre-construction conference.
- B. After review, reproduce and distribute in accordance with Article on Procedures above and for Record Documents.

1.03 PRODUCT DATA

- A. Submit 3 sets of all submittals, 2 of which will be retained by the County. The contractor shall provide additional copies of the submittal as required to be returned for the proper coordination of the work with suppliers and subcontractors. The exact number of copies will be verified at the pre-construction conference.
- B. Mark each copy to identify applicable products, options, and other data. Supplement manufacturers' standard data to provide information unique to this Project.
- C. After review, distribute in accordance with Article on Procedures above and provide copies for Record Documents.

PART 2 **PRODUCTS**

Not used.

PART 3 **EXECUTION**

Not used.

END OF SECTION

**SECTION 01305
MODIFICATION PROCEDURES**

PART 1 GENERAL

1.01 SUMMARY

- A. This section specifies administrative and procedural requirements for handling and processing Contract modifications.

1.02 MINOR CHANGES IN THE WORK

- A. Supplemental instructions authorizing minor changes in the work, not involving an adjustment to the Contract Sum or Contract Time, will be issued by the Project Manager.

1.03 CHANGE ORDER PROPOSAL REQUESTS

- A. County-initiated Proposal Requests: Proposed changes in the work that will require adjustments to the Contract Sum or Contract Time will be issued by the Project Manager, with a detailed description of the proposed change and supplemental or revised Drawings and Specifications, if necessary.
 - 1. Proposal requests issued by the Project Manager are for informational purposes only. Do not consider them instruction either to stop work in progress, or to execute the proposed changes.
 - 2. Unless otherwise indicated in the proposal request, within 10 days of receipt of the proposal request, submit to the Project Manager from the County's review, an estimate of cost necessary to execute the proposed change.
 - a. Include a list of quantities of products to be purchased and unit costs, along with the total amount of purchases to be made. Where requested, furnish survey data to substantiate quantities.
 - b. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
 - c. Include a statement indicating the effect the proposed change in the work will have on the Contract Time.
 - d. Contractor and subcontractors will provide a complete detailed labor and material breakdown to justify change order request amounts.
- B. Contract-Initiated Change Order Requests: When latent or other unforeseen conditions in mutual accord with the County Representative's finding require modifications to the Contract, the Contractor may propose changes by submitting a request for a change to the County.
 - 1. Include a statement outlining the reasons for the change and the effect of the change on the work. Provide a complete description of the proposed change. Indicate the effect of the proposed change on the Contract Sum or Contract Time.
 - 2. Include a list of quantities of products to be purchased and unit costs, along with the total amount of purchases to be made. Where requested, furnish survey data to substantiate quantities.

3. Indicate applicable taxes, delivery charges, equipment rental, and amounts of trade discounts.
4. Comply with requirements regarding product substitutions if the proposed change in the work required that the substitution of one product or system for a product or system not specified.

PART 2 **PRODUCTS**

Not used.

PART 3 **EXECUTION**

Not used.

END OF SECTION

SECTION 01400
QUALITY CONTROL

PART 1 **GENERAL**

- A. Maintain quality control over suppliers, manufacturers, products, services, site conditions and workmanship to produce work of specified quality.

1.02 WORKMANSHIP

- A. Comply with industry standards except when more restrictive tolerances or specified requirements indicate more rigid standards or more precise workmanship.
- B. Perform work by persons qualified to produce workmanship of specified quality. Refer to individual specifications sections for requirements for approvals by product manufacturers.

1.03 TESTING LABORATORY SERVICES

- A. The Contractor shall employ and pay for services of an Independent Testing Laboratory to perform inspections, tests and other services required by individual Specifications Sections.
- B. Services will be performed in accordance with requirements of governing authorities and with standards specified in each technical; specification section.
- C. Reports will be submitted to the Contractor and the County indicating observations and results of tests, indicating compliance or non-compliance with specified standards and with Contract Documents.
- D. Contractor shall cooperate with Testing Laboratory personnel including scheduling of the testing, furnish tools, samples of materials, design mix, storage and assistance as requested.
 - 1. Notify County and Testing Laboratory at least 24 hours prior to expected time for operations requiring testing services. Changes by the Testing Laboratory for waiting time and cancellations without prior notification shall be paid by the Contractor.
- E. Any retesting required for failed or unresponsive tests will be paid by the contractor. The Contractor shall directly reimburse the County for the cost as stated above or will include the cost as a credit to the County which will be reflected in the Request for Payment.

PART 2 **PRODUCTS**

Not used.

PART 3 **EXECUTION**

Not used.

END OF SECTION

SECTION 01600

PRODUCTS

PART 1 GENERAL

1.01 REQUIREMENTS INCLUDED

- A. Products.
- B. Transportation and Handling.
- C. Storage and Protection
- D. Product Options.
- E. Products List.
- F. Substitutions.

1.02 PRODUCTS

- A. Products include material.
- B. Comply with Specifications and referenced standards as minimum requirements.
- C. Components required to be supplied in quantity within a Specification section shall be the same and shall be interchangeable.

1.03 TRANSPORTATION AND HANDLING

- A. Transport products by methods to avoid product damage; deliver in undamaged condition in manufacturer's unopened containers or packaging, dry.
- B. Provide equipment and personnel to handle products by methods to prevent soiling or damage.
- C. Promptly inspect shipments to assure that products comply with requirements, quantities are correct and products are undamaged.

1.04 STORAGE AND PROTECTION

- A. Store products in accordance with manufacturer's instructions, with seals and labels intact and legible.
- B. Arrange storage to provide access for inspection. Periodically inspect to assure products are undamaged and are maintained under required conditions.

PART 2 **PRODUCTS**

Not Used.

PART 3 **EXECUTION**

Not Used.

END OF SECTION

SECTION 01700
PROJECT CLOSEOUT

PART 1 GENERAL

1.01 REQUIREMENTS INCLUDED

Comply with requirements stated in Conditions of the Contract and in Specifications for administrative procedures in closing out the work.

1.02 SUBSTANTIAL COMPLETION

- A. The Contractor shall submit the following items when the Contractor considers the work to be substantially complete:
 - 1. A written notice that the work or designated portion thereof, is substantially complete.
 - 2. A list of items to be completed or corrected.
- B. Within a reasonable time after receipt of such notice, the County shall make an inspection to determine the status of completion.
- C. If the County determines that the work is not substantially complete:
 - 1. The County shall notify the Contractor in writing, stating the reasons.
 - 2. The contractor shall remedy the deficiencies in the work and send a second written notice of substantial completion to the County.
 - 3. The County shall re-inspect the work.

1.03 FINAL INSPECTION

- A. When the Contractor considered the work to be complete, he shall submit written certification stating that:
 - 1. The work has been inspected for compliance with Contract Documents
 - 2. The work has been completed in accordance with Contract Documents.
 - 3. The work is completed and ready for final inspection.
- B. The County shall make an inspection to verify the status of completion after receipt of such certification.
- C. If the County determines that the work is incomplete or defective:
 - 1. The County shall promptly notify the Contractor in writing, listing the incomplete or defective work.
 - 2. The Contractor shall take immediate steps to remedy the stated deficiencies and send a second written certification to County that the work is complete.
 - 3. The County shall re-inspect the work.

- D. Upon finding the work to be acceptable under the Contract Documents, the County shall request the Contractor to make closeout submittals.
- E. For each additional inspection beyond a total of two (2) inspections for substantial and final completion due to the incompleteness of the work, the Contractor shall reimburse the County's fees.

1.04 FINAL ADJUSTMENT OF ACCOUNTS

- A. Submit a final statement of accounting to the County.
- B. Statement shall reflect all adjustments to the Contract Sum:
 - 1. The original Contract Sum.
 - 2. Additions and deductions resulting from:
 - a. Previous Change Orders
 - b. Unit Prices
 - c. Penalties and Bonuses
 - d. Deductions for Liquidated Damages
 - e. Other Adjustments
 - 3. Total Contract Sum, as adjusted.
 - 4. Previous payments.
 - 5. Sum remaining due.
- C. Project Management shall prepare a final Change Order, reflecting approved adjustments to the Contract Sum which were not previously made by Change orders.

PART 2 PRODUCTS (NOT USED)

PART 3 EXECUTION (NOT USED)

END OF SECTION

SECTION 01710

CLEANING

PART 1 GENERAL

1.01 REQUIREMENTS INCLUDED

Execute cleaning during progress of the work and at completion of the work, as required by the General Conditions.

1.02 DISPOSAL REQUIREMENTS

Conduct cleaning and disposal operations to comply with all Federal, State and Local codes, ordinances, regulations and anti-pollution laws.

PART 2 PRODUCTS

2.01 MATERIALS

- A. Use only those cleaning materials which will not create hazards to health or property and which will not damage surfaces.
- B. Use only those cleaning materials and methods recommended by manufacturer of the surface material to be cleaned.
- C. Use cleaning materials only on surfaces recommended by cleaning material manufacturer.

PART 3 EXECUTION

3.01 DURING CONSTRUCTION

- A. Execute periodic cleaning to keep the work, the site and adjacent properties free from accumulation of waste materials, rubbish and wind-blown debris, resulting from construction operations.
- B. Provide on-site containers for the collection of waste materials, debris and rubbish.
- C. Remove waste materials, debris and rubbish from the site periodically and dispose of at legal disposal areas away from the site.

3.02 DUST CONTROL

- A. Clean interior spaces prior to the start of finish painting and continue cleaning on an as-needed basis until painting is finished.
- B. Schedule operations so that dust and other contaminants resulting from cleaning process will not fall on wet or newly-coated surfaces.

3.03 FINAL CLEANING

- A. Employ skilled workmen for final cleaning.
- B. Broom clean exterior paved surfaces; rake clean other surfaces of the grounds.
- C. Prior to final completion or County occupancy, Contractor shall conduct an inspection of sight-exposed interior and exterior surfaces and all work areas to verify that the entire work is clean.

END OF SECTION

SECTION 02230
**SITE WORK AND FOUNDATION EXCAVATIONS
AND EARTHWORK**

PART 1 **GENERAL**

1.01 SECTION REQUIREMENTS

- A. Traffic: Minimize interference with adjoining roads, streets, walks, and other adjacent occupied or used facilities during site-clearing operations.
- B. Salvable Improvements: Carefully remove items indicated to be salvaged and store on Owner's premises where indicates.
- C. Notify utility locator service for area where Project is located before site clearing.

PART 2 **PRODUCTS**

Not Applicable.

PART 3 **EXECUTION**

3.01 GENERAL

- A. Protect and maintain benchmarks and survey control points from disturbance.
- B. Install erosion and sedimentation control measures before site clearing.
- C. Protect site improvements to remain from damage. Restore damaged improvements to condition existing before start of site clearing.
- D. Locate and clearly flag trees and vegetation to remain or to be relocated.
- E. Protect remaining trees and shrubs from damage and maintain vegetation. Employ a licensed arborist to repair tree and shrub damage. Restore damaged vegetation. Replace damaged trees that cannot be restored to full growth, as determined by arborist.
- F. Do not store materials or equipment or permit excavation within drip line of remaining trees.
- G. Locate, identify, disconnect, and seal or cap off utilities indicated to be removed.

3.02 SITE CLEARING

- A. Strip topsoil. Stockpile topsoil that will be reused in the Work.
- B. Remove obstructions, trees, shrubs, grass, and other vegetation to permit installation of new construction. Removal includes digging out stumps and obstructions and grubbing roots.

- C. Remove existing above-and below-grade improvements as indicated and as necessary to facilitate new construction.
- D. Remove slabs, paving, curbs, gutters, and aggregate base as required for the new pad construction.
- E. Dispose of waste materials, including trash, debris, and excess topsoil, off Owner's property. Burning waste materials on-site is not permitted.

3.03 SITE PREPARATION

- A. Prior to construction, the location of any existing underground utility lines within the construction area should be established. Notify the Owner of any interfering utility lines within the construction area. Abandoned underground pipes shall be removed or plugged.
- B. The site shall be cleared; this primarily includes the removal of the ground brush, root mats or other deleterious and organic materials encountered. Undesirable material shall be removed prior to beginning further construction at the site. As a minimum, the clearing operations shall extend at least 5 feet beyond the building lines. Any "topsoil" removed from the building areas shall be stockpiled in designated locations for use in landscaped areas. Any excavations or cavities formed by the removal of organic material or ground brush should be filled with clean compacted structural fill.
- C. Following the clearing operations, the exposed subgrade should be evaluated by the Owner and proofrolled to confirm that all unsuitable materials have been removed. The proofrolling should consist of compaction with a large diameter, heavy static drum roller or fully-loaded 2 cubic yard capacity, rubber tired, front-end loader. Large vibratory compaction equipment will not be used due to vibration concerns relating to the masonry structures that exist on-site. Careful observations should be made during proofrolling to help identify any areas of soft yielding soils that may require overexcavation and replacement. Notify the Owner of suspect areas.
- D. A minimum of ten (10) overlapping passes shall be made by the static roller over the building areas, with the successive passes aligned perpendicular. Within the building area, the fill soils and natural ground, to a minimum depth of one (1) foot below stripped grade, shall be compacted to a dry density of at least 95% of the modified Proctor maximum dry density (ASTM D-1557).
- E. Following satisfactory completion of the initial compaction on the existing grade, the proposed project area may be brought up to finished subgrade levels. Fill should consist of fine sand with less than 12% passing the No. 200 sieve, free of rubble, organics, clay, debris and other unsuitable material. Native soil may be used for fill if approved. Submit tests for approval of native soil and/or imported fill. Approved sand fill should be placed in loose lifts not exceeding 12 inches in thickness and should be compacted to a minimum of 95% of the modified Proctor maximum dry density. Density tests to confirm compaction will be performed in each fill lift before the next lift is placed. Testing is by Owner.
- F. Control soil moisture contents in order to facilitate proper compaction. If additional moisture is necessary to achieve compaction objectives, then water should be applied in such a way that it will not cause erosion or removal of the subgrade soils. Moisture content within the fill soil should be controlled to within $\pm 2\%$ of optimum as established in ASTM D-1557 to help insure

development of both density and stability during compaction operations.

- G. All slab/foundation excavations will be observed by the Owner to explore the extent of any loose, soft, or otherwise undesirable materials. If the foundation excavation is approved, the bottom of foundation excavations should be compacted to develop a minimum density requirement of 95% of the modified Proctor maximum dry density (ASTM D-1557), for a minimum depth of one (1) foot below the bottom of the footing depth, as determined by field density compaction tests. Backfill soils placed adjacent to existing footings should be carefully compacted with a light rubber-tired roller or vibratory plate compactor to avoid damaging the footings or walls. Approved sand fills, to provide foundation embedment constraint, should be placed in loose lifts not exceeding six (6) inches and should be compacted to a minimum of 95% of the modified Proctor maximum dry density.
- H. If soft pockets are encountered in the footing excavations, the unsuitable materials shall be removed and the footings may be located at a lower elevation on firm, acceptable material, or the proposed footing elevation may be re-established by backfilling after the undesirable material has been removed. This backfilling may be done with a very lean concrete or with a well-compacted, suitable fill such as clean sand, gravel, or crushed Florida Department of Transportation (FDOT) No. 57 or FDOT No. 67 stone. Sand backfill shall be compacted to a dry density of at least 95% of the modified Proctor maximum dry density (ASTM D-1557), as previously described.
- I. Immediately prior to reinforcing steel placement, the bearing surfaces of all footing and floor slab areas shall be compacted using hand operated mechanical tampers. In this manner, any localized areas which have been loosened by excavation operations should be adequately re-compacted.
- J. After inspection, approval and final compaction of footing bottoms the foundation concrete shall be placed as quickly as possible to avoid exposure of the footing bottoms to wetting and drying. Surface run-off water should be drained away from the excavations and not be allowed to pond. The foundation concrete should be placed during the same day the excavation is made. If it is required that the footing excavations be left open for more than one day, they should be protected to reduce evaporation or entry of moisture.

END OF SECTION

SECTION 02270
EROSION CONTROL

PART 1 - GENERAL

1.01 WORK INCLUDED

- A. The work of this section consists of furnishing all necessary labor, equipment, material and transportation necessary to provide temporary and permanent erosion and sediment control as required by appropriate government agency permits, the plans and as noted in this specification.

PART 2 - EXECUTION

2.01 INSTALLATION

- A. Install temporary erosion and sediment control items prior to clearing and commencing earthwork or as soon as practical as sitework progresses.

2.02 PROTECTION

- A. Stabilization of Denuded Areas: No disturbed area may be denuded for more than thirty (30) calendar days, (excluding rights-of-way) unless otherwise authorized by the Owner's Engineer. During construction, denuded areas shall be covered by mulches such as straw, hay, filter, seed and mulch, sod or some other permanent vegetation. Within sixty (60) calendar days after final grade is established on any portion of a project site, that portion of the site shall be provided with established permanent soil stabilization measures per the original site plan, whether by impervious surface or landscaping.
- B. Protection and Stabilization of Stockpiles: Fill material stockpiles shall be protected at all times by on-site drainage controls which prevent erosion of the stockpiled material. Control of dust from such stockpiles may be required, depending upon their location and the expected length of time the stockpiles will be present. In no case shall an unstabilized stockpile remain after thirty (30) calendar days.
- C. Protection of Existing Storm Sewer Systems: During construction, all storm sewer inlets shall be protected by approved sediment traps such as secured hay bales, sod, stone, etc., which shall be maintained and modified as required by construction progress, and which must be approved by the Owner's Engineer.
- D. Sediment Trapping Measures: Sediment basins and traps, perimeter berms, filter fences, berms, sediment barriers (hay bales), vegetative buffers and other measures intended to trap sediment and/or prevent the transportation of sediment onto adjacent properties, or into existing water bodies, must be installed, constructed or, in case of vegetative buffers, protected from disturbance, as a first step in the land alteration process.

- E. Silt curtains or other filter/siltation reduction devices must be installed on the downstream side of the in channel alteration activity to eliminate impacts due to increased turbidity. Whenever stream crossings are required, properly sized temporary culverts shall be provided by the Contractor and removed when construction completed. The area of the crossing shall be restored to a condition as nearly as possible equal to that which existed prior to any construction activity.
- F. Swales and Ditches: All swales, ditches and channel leading from the site shall be sodded within three (3) days of excavation. All other interior swales, etc., including detention areas will be sodded prior to issuance of as Certificate of Occupancy.

2.03 PERFORMANCE

- A. Maintenance: All erosion and siltation control devices shall be checked regularly, especially after each rainfall and will cleaned out and/or repaired as required.

END OF SECTION

SECTION 02280

SOIL TREATMENT FOR TERMITE CONTROL

PART 1 - GENERAL

1.01 DESCRIPTION OF WORK

- A. Provide soil treatment for termite control below grade as specified.

1.02 QUALITY ASSURANCE

- A. In addition to the requirements of these specifications, comply with manufacturer's instructions and recommendations for the work, including preparation of substrate and application.
- B. Engage a professional pest control operator, licensed by the State of Florida for application of soil treatment solution.

1.03 JOB CONDITIONS

- A. Restrictions: Do not apply soil treatment solution until excavating, filling and grading operations are completed except as otherwise required in construction operations..
- B. Ensure penetration: do not apply soil treatment during inclement weather. Comply with other handling and application instructions of the soil toxicant manufacturer.

1.04 SUBMITTALS

- A. Product Data: Submit four-copies of manufacturer's technical data and application instructions. Include toxicants to be used, composition by percentage, dilution schedule, and intended application rate.

1.05 GUARANTEE

- A. Furnish four-copies of written guarantee certifying that the applied soil poisoning treatment will prevent the infestation of subterranean termites. If subterranean termite activity is discovered during the guarantee period, the Contractor will re-treat the soil around the boarding pads.
- B. Provide guarantee for a period of five years.
- C. The Owner reserves the right to renew warranty for an additional 5-years at an additional cost.

1.06 REGULATORY REQUIREMENTS

- A. Conform to applicable code for requirements for application in accordance with the EPA.
- B. Comply with the general requirements of the Florida Building Code, Chapter 1 and Section 1816.

1.07 PROJECT CLOSEOUT

- A. Record moisture content of soil before application, date and rate of application, areas of application, diary of toxicity meter readings and corresponding soil coverage.

PART 2 - PRODUCTS

2.01 SOIL TREATMENT SOLUTION

- A. EPA approved, emulsible concentrate insecticide for dilution with water, specially formulated to prevent infestation by termites. Fuel oil is not permitted as a diluent. Provide a working solution of one of the following chemical elements and concentrations:
 - 1. Dursban T.C.: 1.0% in water emulsion.
 - 2. Prevail TC: 0.60% in water emulsion.
 - 3. Pryfom: 0.75% in water emulsion.
- B. Other solutions may be used as recommended if acceptable to local governing authorities and the EPA. Use only soil treatment solutions, which are not injurious to planting.

PART 3 - EXECUTION

3.01 INSPECTION

- A. Examine the areas and conditions under which soil treatment for termite control is to be installed and notify the Owner in writing of conditions detrimental to the proper and timely completion of the work. Do not proceed with the work until unsatisfactory conditions have been corrected.
- B. Verify that final grading is completed.

3.02 APPLICATION

- A. Surface Preparation: Remove foreign matter that could decrease effectiveness of treatment on areas to be treated. Loosen, rake and level soil to be treated, except previously compacted areas under slabs and foundations.
- B. Application Rates: Apply soil treatment solution as specified and in strict accordance with Manufacturer's recommendation for mixing and application.
 - 1. Allow not less than 12 hours for drying after application, before beginning concrete placement or other construction activities.
 - 2. Post signs in the areas of application warning workers that soil poisoning has been applied. Remove signs before areas are covered by other construction.

3. Reapply soil treatment solution to areas disturbed by subsequent excavation or other construction activities following initial application.

END OF SECTION

SECTION 02510
CONCRETE SIDEWALKS

PART 1 - GENERAL

1.01 WORK INCLUDED

- A. The work included in this Section consists of furnishing all labor, material equipment and transportation for the construction of the sidewalks and ADA boarding pads to the lines and grades as shown on the Drawings and verified in the field for project specific projects.

1.02 SUBMITTALS

- A. All materials specified shall be certified by the producer or manufacturer that the furnished material meets the specific requirements of the specifications.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Concrete: Concrete shall be Class B that conforms to the requirements of Section 03000.
- B. Welded Wire Fabric: Welded wire fabric shall conform to the requirements of Section 03000.
- C. Preformed Joint Filler: Preformed joint filler shall be non-extruding and resilient bituminous type and shall conform to the requirements of AASHTO Designation M 153 or AASHTO Designation M 213.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Subgrade Condition:
 - 1. The finished subgrade shall be maintained in a smooth, compact condition and any areas which are disturbed prior to placing of the concrete shall be restored at the Contractor's expense. The subgrade shall be moist at the time the concrete is placed. Water shall be uniformly applied ahead of the pouring operations as directed by the Owner. Large boulders and other obstructions shall be removed to a minimum depth of 6 inches below the finished subgrade elevation, and the space shall be backfilled with sand, base course material or other suitable material which shall be thoroughly compacted by rolling or tamping.
 - 2. The subgrade shall be accurately trimmed to the required elevation with a 1/4-inch tolerance. High areas shall be trimmed to proper elevation. Low areas may be filled with suitable material and compacted to the specified density or filled with concrete integrally with the placing of the pavement.
- B. Setting Forms: The forms shall be accurately set to line and grade and such that they rest firmly, throughout their entire length upon the compacted subgrade surface. Forms shall be

joined neatly and tightly and braced to resist the pressure of the concrete and the finished operations. The alignment and grade of all forms shall be approved before and immediately prior to the placing of concrete.

- C. Mixing Concrete: Concrete shall be mixed in accordance with the requirements of Section 03000.

3.02 INSTALLATION

- A. Placing Concrete:

- 1. The concrete shall be distributed on the subgrade to such depth that, when it is consolidated and finished, the thickness required by the Drawings will be obtained at all points and the surface will at no point be below the grade specified for the finished surface. The concrete shall be deposited on the subgrade in a manner which will require as little rehandling as possible. Placing of the concrete shall be continuous between transverse joints, without the use of intermediate bulkheads.
 - 2. Reinforcement shall be placed as shown on the Drawings and shall be maintained at this location during the placing and finishing operations.

- B. Striking-off, Consolidating And Finishing Concrete: Immediately after the placing, the concrete shall be struck off, consolidated and finished, to produce a finished product conforming to the cross section, width and surface finish required by the Drawings and Specifications.

- C. Straightedging and Surface Corrections:

- 1. After floating has been completed and the excess water removed, but while the concrete is still in a plastic state, the surface of the concrete shall be tested for trueness with an accurate 10-foot straightedge. The straightedge shall be furnished by the Contractor. The straightedge shall be held in successive positions parallel to the walk center line, in contact with the surface, and the whole area tested from one side of the slab to the other as necessary. The advance along the walk shall be in successive stages of not more than one-half the length of the straightedge. Any depressions shall be immediately filled with freshly mixed concrete and struck-off, consolidated and refinished. High areas shall be cut down and refinished. Straightedge testing and surface correction shall continue until the entire surface appears to conform to the required grade and cross section. All surface irregularities exceeding 1/4 inch in a 10 foot shall be corrected.

- D. Final Finish: As soon as the water sheen has disappeared and just before the concrete becomes non-plastic, all edges, including expansion joint edges, shall be finished with an edging tool having a radius of 1/4 inch. Finally the top shall be given a light broom finish perpendicular to the forms.

- E. Joints:

- 1. Transverse Construction Joints: Transverse construction joints shall be constructed at the end of all pours and at other locations where the pouring operation are stopped for as long as 30 minutes. Construction joints, however, shall not be placed within five feet of any other transverse joint or of either end of a section of walk. If sufficient concrete has not been placed to form a slab at least five feet long, the excess concrete, back to the last preceding joint, shall be removed. The joints shall

be formed by placing a wood or metal bulkhead accurately and securely in place, in a plane perpendicular to the profile and center line of the walk. Construction joints shall have tooled edges with a 1/4-inch radius.

2. Transverse Contraction Joints: Transverse contraction joints shall be formed at five foot intervals and shall consist of planes of weakness created by an edging tool. The cut in the fresh concrete shall be perpendicular to the surface of the walk, shall extend to a depth of 1 1/2 inches below the top surface and shall have 1/4-inch radius tooled edges.
3. Transverse Expansion Joints: One half-inch expansion joints shall be formed by placing preformed joint filler around all structures and at intervals not exceeding 100 feet.

F. Curing:

1. After the finishing operations have been completed and as soon as the concrete has hardened sufficiently that marring of the surface will not occur, the entire surface and the edges of the newly placed concrete shall be water cured by misting or covering with a double thickness of burlap or other approved material kept thoroughly saturated with water.
2. The forms shall be kept wet until removed and upon removal, the curing specified herein shall be started immediately.
3. Concrete shall be cured for a period of 7 days for normal Portland cement or 4 days for high early strength cement.
4. Concrete poured in the dry shall not be submerged until it has attained sufficient strength to adequately sustain the stress involved, nor shall it be subjected to flowing water across the surface for 4 days.

- G. Form Removal: After the concrete has sufficiently set a minimum of 12 hours, the Contractor shall remove the forms and shall backfill the space on each side. The earth shall be compacted and graded in a satisfactory manner without damage to the concrete work. Honeycombs shall be filled with sand cement mortar. Plastering will not be allowed on the face of the walk. Rejected walk shall be removed and replaced without additional compensation.

END OF SECTION

SECTION 02528

CONCRETE CURB, CURB AND GUTTER

PART 1 - GENERAL

1.01 WORK INCLUDED

- A. The work included in this Section consists of furnishing all labor, material equipment and transportation for the construction of the curb and gutter to the lines and grades as shown on the Drawings.

1.02 SUBMITTALS

- A. All materials specified shall be certified by the producer or manufacturer that the furnished material meets the specific requirements of the specifications.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Concrete: Concrete shall be Class B that conforms to the requirements of Section 03000.
- B. Reinforcing Steel And Welded Wire Fabric: Reinforcing steel bars and welded wire fabric shall conform to the requirements of Section 03000.
- C. Preformed Joint Filler: Preformed joint filler shall be non-extruding and resilient bituminous type and shall conform to the requirements of AASHTO 153 or AASHTO Designation M 213.
- D. Joint Sealer For Gutters:
 - 1. Hot Poured Type: Joint sealer shall conform to the requirements of AASHTO Designation M 173.

Cold Applied Type: In lieu of the hot poured type, joint sealer shall be a one or two part polysulfide base self leveling sealant for horizontal surfaces that has been developed for foot and vehicular traffic. The sealant shall be listed on the Thiokol approved product list.

PART 3 - EXECUTION

3.01 PREPARATION

A. Subgrade Condition:

1. The finished subgrade shall be maintained in a smooth, compact condition and any areas which are disturbed prior to placing of the concrete shall be restored at the Contractor's expense. The subgrade shall be moist at the time the concrete is placed. Water shall be uniformly applied ahead of the pouring operations as directed by the Owner.
2. The subgrade shall be accurately trimmed to the required elevation with a 1/4 inch tolerance. High areas shall be trimmed to proper elevation. Low areas may be filled with suitable material and compacted to the specified density or filled with concrete integrally with the placing of the pavement.

B. Setting Forms: The forms shall be accurately set to line and grade and such that they rest firmly, throughout their entire length upon the compacted subgrade surface. Forms shall be joined neatly and tightly and braced to resist the pressure of the concrete and the finished operations. The alignment and grade of all forms shall be approved before and immediately prior to the placing of concrete.

C. Mixing Concrete: Concrete shall be mixed in accordance with the requirements of Section 03000.

3.02 INSTALLATION/APPLICATION

A. Placing Concrete:

1. The concrete shall be distributed on the subgrade to such depth that, when it is consolidated and finished, the thickness required by the Drawings will be obtained at all points and the surface will at no point be below the grade specified for the finished surface. The concrete shall be deposited on the subgrade in a manner which will require as little rehandling as possible. Placing of the concrete shall be continuous between transverse joints, without the use of intermediate bulkheads.
2. Reinforcement shall be placed as shown on the Drawings and shall be maintained at this location during the placing and finishing operations.
3. Concrete shall be thoroughly consolidated against and along the faces of all forms by means of vibration. Tamping or vibration at any one location shall not continue so long as to produce puddling or the accumulation of excessive grout on the surface.

B. Striking-Off, Consolidating And Finishing Concrete:

1. Immediately after the placing, the concrete shall be struck off, consolidated and

finished, to produce a finished product conforming to the cross section, width and surface finish required by the Drawings and Specifications.

2. After the concrete has sufficiently set a minimum of 12-hours, the Contractor shall remove the forms and shall backfill the space on each side. The earth shall be compacted and graded in a satisfactory manner without damage to the concrete work. Honeycombs shall be filled with sand cement mortar. Plastering will not be allowed on the face of the curb. Rejected curb and gutter or valley gutter shall be removed and replaced without additional compensation.
- C. Final Finish: As soon as the water sheen has disappeared and just before the concrete becomes non-plastic, a light broom finish shall be given to the surface.
- D. Joints:
1. Transverse Construction Joints: Transverse construction joints shall be constructed at the end of all pours and at other locations where the pouring operation are stopped for as long as 30 minutes. Construction joints, however, shall not be placed within ten feet of any other transverse joint or of either end of a section of curb. If sufficient concrete has not been placed to form a slab at least ten feet long, the excess concrete, back to the last preceding joint, shall be removed. The joints shall be formed by placing a wood or metal bulk-head accurately and securely in place, in a plane perpendicular to the profile and center line of the pavement. Construction joints shall be sawed, in a manner similar to contraction joints, so that a groove will be formed for holding the joint sealing compound.
 2. Transverse Contraction Joints: Transverse contraction joints shall be constructed at ten foot intervals and shall consist of planes of weakness created by sawing the surface of the hardened concrete. The cut shall be perpendicular to the surface of the pavement, and shall extend to a depth of six inches below the top of the curb and one and one-half inches below the gutter.
 - a. It shall be the Contractor's responsibility to see that the sawing equipment does not damage the curb and to saw the transverse contraction joints as soon as the curb, curb and gutter has hardened to the degree that tearing and raveling are not excessive and before uncontrolled shrinkage cracking begins. If, at any time, uncontrolled cracking occurs, the Contractor will be required to modify his methods.
 3. Transverse Expansion Joints: One-half inch expansion joints shall be formed by placing preformed joint filler at the ends of each radius return, around all structures, and at intervals not exceeding 500 feet.
 4. Cleaning And Sealing Joints: Joints in gutters which are to be sealed, shall be filled with joint sealing material before the roadway is opened to traffic and as soon after completion of the curing period as is feasible. Just prior to sealing, each joint shall be thoroughly cleaned of all foreign material (including any membrane curing

compound) and the joint faces shall be clean and surface-dry when the sealer is applied.

- a. The sealing material shall be applied to each joint to conform to the details shown on the Drawings and in accordance with the manufacturer's recommendation. The pouring shall be done in such manner that the material will not be spilled on the exposed surfaces of the concrete. Any excess material on the surface of the concrete gutter shall be removed immediately and the gutter surface cleaned.

All cracks occurring in the gutter prior to its acceptance shall be cleaned out and sealed as specified above, except that the cracks and fractures shall be completely filled with joint sealer and any excess filler material cut down level with the gutter surface.

E. Curing:

1. After the finishing operations have been completed and as soon as the concrete has hardened sufficiently that marring of the surface will not occur, the entire surface and the edges of the newly placed concrete shall be water cured by misting or covering with a double thickness of burlap, cotton mats, or other approved material kept thoroughly saturated with water.
2. The forms shall be kept wet until removed and upon removal, the curing specified herein shall be started immediately.
3. Concrete shall be cured for a period of seven (7) days for normal Portland cement or four (4) days for high early strength cement.
4. Concrete poured in the dry shall not be submerged until it has attained sufficient strength to adequately sustain the stress involved, nor shall it be subjected to flowing water across the surface for four (4) days.

END OF SECTION

SECTION 03000

CONCRETE

PART 1 **GENERAL**

1.01 **WORK INCLUDED**

- A. Formwork, shoring, bracing, and anchorage.
- B. Concrete reinforcement and accessories.
- C. Cast-in-place concrete; ready mixed concrete; concrete placement, finishing and curing.
- D. Cast-in-place concrete for specialized flooring materials.

1.02 **REFERENCES**

- A. ACI 301 - Specifications for Structural Concrete for Buildings.
- B. ACI 305 - Hot Weather Concreting.
- C. ACI 315 - Details and Detailing of Concrete Reinforcement.
- D. ACI 318 - Building Code Requirements for Reinforced Concrete.
- E. ACI 347 - Recommended Practice for Concrete Formwork.
- F. ANSI/ASTM A185 - Welded Steel Wire Fabric for Concrete Reinforcement.
- G. ASTM A615 - Deformed and Plain Billet-Steel for Concrete Reinforcement.
- H. ASTM C78 - Flexural Strength of Concrete (Using Simple Beam with Third Point Loading).
- I. ASTM C94 - Ready-Mixed Concrete.
- J. ASTM C150 - Portland Cement.
- K. ASTM C171 - Sheet Materials for Curing Concrete.
- L. ASTM C260 - Air Entraining Admixtures for Concrete.
- M. ASTM C309 - Liquid Membrane-Forming Compounds for Curing Concrete.
- N. ASTM C494 - Chemical Admixtures for Concrete.
- O. ASTM D1751 - Preformed Expansion Joint Filler for Concrete Paving and Structural Construction (Non-extruding and Resilient Bituminous Types).
- P. ASTM D1752 - Preformed Sponge Rubber and Cork Expansion Joint Fillers for Concrete Paving and Structural Construction.

- Q. ASTM D1850 - Concrete Joint Sealer Cold Application Type.
- R. AASHTO M 182-60 - Burlap Cloth Made from Jute or Kenaf.
- S. FS TT-C-800 - Curing Compound, Concrete, for new and existing Surfaces.

1.03 QUALITY ASSURANCE

- A. Perform work in accordance with ACI 301, ACI 304, ACI 305, ACI 315, ACI 347, ACI 318, ASTM A615, ASTM C-150 and all other applicable referenced documents, (1.03).

1.04 TESTS

- A. Testing shall be as described below and the cost of testing shall be paid by the contractor.
- B. Submit proposed mix design of each class of concrete for review and approval prior to commencement of work.
- B. Testing firm will take cylinders and perform slump tests in accordance with ACI 301.
- C. Tests of cement and aggregates will be performed to ensure conformance with requirements stated herein.

Submit data, source and certificates on proposed aggregates.

- D. At least three concrete test cylinders will be taken for every 50 cu. yds. or less of each class of concrete placed each day.
- E. One slump test will be taken for each set of test cylinders taken.
- F. Chemical Resistance: Independent testing shall be performed to ASTM C 267-77 "Chemical Resistance of Mortars" and ASTM 39-86 "Compressive Strength of Cylindrical Concrete Specimens".
 - 1. Concrete samples (treated and untreated) to have a design strength as listed in paragraph 2.08. No admixtures permitted.
 - 2. Coatings to have a maximum thickness of 0.05 inches per coat with up to two coats permitted.
 - 3. Untreated and treated specimens to be immersed for a minimum of 84 days in the following chemical solutions: hydrochloric acid, toluene, caustic soda.
 - 4. Treated specimens after exposure, and shall have a minimum of 14% increase in compressive strength versus untreated control specimens.
- G. Potable Water Approval: Independent testing shall be performed according to NSF Standard 61 and approval for use of waterproofing material on structures holding potable water shall be evidenced by NSF certification.

1.05 SHOP DRAWINGS

- A. Submit shop drawings of reinforcing steel indicating sizes, spacings, shapes, locations and quantities of reinforcing steel, and wire fabric; bending and cutting schedules; splicing; and supporting and spacing devices.
- B. Prepare signed and sealed shop drawings under supervision of professional structural engineer registered in State of Florida.
- C. Submit product data, including manufacturer's specifications, installation instructions, and general recommendations for waterproofing applications. Also include manufacturer's certification or other data substantiating that the products comply with the requirements of the Contract Documents.
- D. Test Reports: Submit for acceptance, complete test reports from approved independent testing laboratories certifying that the waterproofing system conforms to the performance characteristics and testing requirements specified herein.
- E. Manufacturer's Certification: Provide certificates signed by the manufacturer or manufacturer's representative certifying that the materials to be installed comply in all respects with the requirements of this specification, and that the applicator is qualified and approved to install the materials in accordance with the manufacturer's product data.
- F. Manufacturer's Field Report: Provide a copy of the report from the manufacturer's representative confirming that the surfaces to which waterproofing material is to be applied are in a condition suitable to receive the same.

- 1.06 Project Conditions: Comply with the manufacturer's product data regarding condition of substrate to receive waterproofing, weather conditions before and during installation, and protection of the installed waterproofing system.

PART 2 **PRODUCTS**

2.01 FORM MATERIALS

- A. Conform to ACI 301 and ACI 347.

2.02 REINFORCING STEEL

- A. Reinforcing Steel: ASTM A615, 60 yield grade billet steel deformed bars; uncoated finish. 40 yield grade only where noted on the drawings.
- B. Welded Steel Wire Fabric: Plain type, ANSI/ASTM A185; coiled rolls; uncoated finish.

2.03 CONCRETE MATERIALS

- A. Cement: ASTM C150, Type 1 Portland, grey color.
- B. Fine and Coarse Aggregates: ASTM C33.

- C. Water: Clean and not detrimental to concrete.

2.04 ADMIXTURES.

- A. Air Entrainment Admixture: ASTM C260.

2.05 ACCESSORIES

- A. Vapor Barrier: ASTM D2103, 6 mil thick clear polyethylene film.
- B. Non-Shrink Grout: Premixed compound with non-metallic aggregate, cement, water reducing and plasticizing agents; capable of minimum compressive strength of 3000 psi in 28 days.
- C. Form Release Agent: Colorless material which will not stain concrete, absorb moisture or impair natural bonding or color characteristics of coating intended for use on concrete.
- D. Joint Filler: ASTM D1751 or 1752.
- E. Expansion Joint Material: ASTM D1751 - Preformed Expansion Joint Filler for Concrete Paving and Structural Construction (Non-extruding and Resilient Bituminous Types).

2.06 CURING MATERIALS

- A. Membrane Curing Compound: ASTM C309, or Fed. Spec. TT-C-800
- B. Curing Sheets and Mats: ASTM D 2103 or AASHTO M 182-60 or ASTM C171.

2.07 CONCRETE MIX

- A. Mix concrete in accordance with ASTM C94, ACI 301 and ACI 304.
- B. Compressive Strength at 28 days: 3000 psi.
- C. Slump: In accordance with ACI 301; 4" maximum.

PART 3 **EXECUTION**

3.01 GENERAL

- A. Work to be in conformance with ACI 301, ACI 304, ACI 305, ACI 315, ACI 318, ACI 347 and ASTM C94.

3.02 FORMWORK ERECTION

- A. Verify lines, levels, and measurement before proceeding with formwork.
- B. Hand trim sides and bottom of earth forms; remove loose dirt.
- C. Align form joints.

- D. Do not apply form release agent where concrete surfaces receive special finishes or applied coatings which may be affected by agent.

3.03 REINFORCEMENT

- A. Comply with ACI 301, ACI 315, ACI 318 and ANSI/ASTM A185.
- B. Place, support, and secure reinforcement against displacement.
- C. Locate and lap reinforcing splices as noted on the drawings and/or as required by ACI 318 and ACI 315.

3.04 PLACING CONCRETE

- A. Notify Owner a minimum 24 hours prior to commencement of concreting operations.
- B. Install vapor barrier under interior floor slabs on fill. Lap joints minimum 6 inches and seal. Extend vapor barrier to top of footing. Do not disturb vapor barrier while placing reinforcement. **The vapor barrier must be completely sealed.**
- C. Concrete shall not be dropped freely over 4 feet; use pipe troughs or chutes. Placement of concrete shall be such as to avoid segregation or separation of aggregates.
- D. Concrete shall be deposited nearly as possible in its final position. Large quantities shall not be deposited at one point and then run and worked along the forms. Do not move concrete horizontally with a vibrator nor garden rake. Avoid segregation of the mix.

3.05 TOLERANCES

- A. Provide Class A tolerance to floor slabs according to ACI 301. **Slope as indicated on the drawings.**

3.06 REMOVAL OF FORMS

- A. Do not remove forms and bracing until concrete has gained sufficient strength to carry its own weight and design loads that are liable to be imposed upon it. Verify strength of concrete by compressive test results.

3.07 FINISHING FORMED SURFACES

- A. All Concrete: Fill all voids, honeycombs and other intrusions. Clean all voids, honeycombs and holes of loose concrete and debris. Fill solid with neat cement paste, 1 part cement and 1-1/2 part fine, clean sand; wet areas before filling. Remove projections, fins, irregularities and form tie ends.
- B. Formed concrete surfaces exposed to view: Remove blemishes; rub to uniform texture.
- C. Provide smooth rubbed finishes on vertical faces of formed concrete exposed to view as follows:
 - 1. Smooth Rubbed Finish: On exposed, poured-in-place concrete vertical surfaces.

Fill and repair blemishes, rub finish to uniform color and texture. Use mortar mix of 1 part Portland cement and 2 parts well graded sand passing No. 30 sieve with water added to give the consistency of thick paint. Thoroughly wet surface and allow to approach surface dryness. Apply vigorously with burlap, cork or wood; scrape off excess grout with a trowel. As soon as can be accomplished without pulling mortar from voids, rub surface with burlap pads having the dry sand-cement mixture on the pads.

3.08 CURING

- A. Begin curing concrete immediately after finishing. Concrete shall be protected against moisture loss and rapid temperature change for at least 10 days. Use one of the following procedures.
1. **Curing of the slab shall be 10 full days.**
 2. Ponding or continuous sprinkling.
 3. Application of absorptive mats or fabric or impervious sheets kept continuously wet.
 4. Continuous application of steam (not exceeding 150 degrees F) or mist spray.
 5. Application of liquid membrane-forming compounds conforming to ASTM C309 or Fed. Spec. TT-C-800.
 6. Immediately after curing, thoroughly clean slabs of any marks, spots, stains, mortar or other debris.

END OF SECTION

BID FORM
SECTION 00300 (SUBMIT IN TRIPLICATE)

For: Construction of Concrete 1) ADA Boarding Base Pads, 2) ADA Boarding Pads w/ Shelter Slabs, 3) ADA Boarding Pads w/ Bench Slabs

TO: Manatee County Purchasing Division
1112 Manatee Avenue West, Suite 803
Bradenton, Florida 34205

RE: "Sealed Bid # 13-1774-OV, Construction of Concrete 1) ADA Boarding Base Pads, 2) ADA Boarding Pads w/ Shelter Slabs, 3) ADA Boarding Pads w/ Bench Slabs"

We, the undersigned, hereby declare that we have carefully reviewed the bid documents, and with full knowledge and understanding of the aforementioned herewith submit this bid, meeting each and every specification, term, and condition contained in the Invitation for Bids.

We understand that the bid documents in their entirety shall be made a part of any agreement or Contract between Manatee County and the successful bidder. Failure to comply shall result in Contract default, whereupon, the defaulting Contractor shall be required to pay for any and all re-procurement costs, damages, and attorney fees as incurred by the County.

Communications concerning this bid shall be addressed as follows:

Person's Name: _____

Address: _____ Phone: _____

Date: _____ FL Contractor License# _____

License in the Name of: _____

Bidder is a WBE/MBE Contractor? _____ Certification _____

COMPANY'S NAME: _____

AUTHORIZED SIGNATURE(S): _____

Name and Title of Above Signer(s) _____

CO. MAILING ADDRESS: _____

STATE OF INCORPORATION _____ (if applicable)

TELEPHONE: (____) _____ FAX: (____) _____

Email address: _____

Acknowledge Addendum No. _____ Dated: _____ Acknowledge Addendum No. _____ Dated: _____
Acknowledge Addendum No. _____ Dated: _____ Acknowledge Addendum No. _____ Dated: _____

BID FORM / Section 00300
(SUBMIT IN TRIPLICATE) / IFB #13-1774-OV

For: Bid Form Construction of Concrete ADA Boarding Pads, ADA Boarding Pads w/ Shelter Slabs, ADA Boarding Pads w/ Bench Slabs

Subtotal for ADA Boarding Base Pads \$ _____

Subtotal for ADA Boarding Pads w/ Shelter Slabs \$ _____

Subtotal for ADA Boarding Pads w/ Bench Slabs \$ _____

TOTAL BID PRICE \$ _____

BIDDER: _____

AUTHORIZED SIGNATURE: _____

IFB #13-1774-OV, Construction of ADA Boarding BASE Pads
(Submit in Triplicate) Section 00300

Manatee County Area Transit (MCAT) of Bus Stop Improvements

Construction of ADA Boarding BASE Pads

Quantities listed are Estimated Quantities and are provided to you as a guideline for preparing your bid and should not be construed as representing actual quantities to be purchased.

ITEM NO.	DESCRIPTION	QTY	U/M	BID PRICE	EXTENDED PRICE
ADA BOARDING BASE PADS, TYPICAL FOR CONDITIONS 1 THROUGH 10					
1	<u>ADA BOARDING BASE PADS CONDITION NO. 1</u> as detailed in the ADA Boarding Pad Base Drawings. Provide pricing for all work installed and shall include labor, material, equipment, excavation, sub-grade compaction, form work, 6" thick concrete, concrete placement, culvert installation, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.	2	EA	\$	\$
2	<u>ADA BOARDING BASE PADS CONDITION NO. 2</u> as detailed in the ADA Boarding Pad Base Drawings. Provide pricing for all work installed and shall include labor, material, equipment, excavation, sub-grade compaction, form work, 6" concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.	20	EA	\$	\$
3	<u>ADA BOARDING BASE PADS CONDITION NO. 3</u> as detailed in the ADA Boarding Pad Base Drawings. Provide pricing for all work installed and shall include labor, material, equipment, excavation, sub-grade compaction, form work, 6" thick concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.	20	EA	\$	\$

BIDDER: _____

AUTHORIZED SIGNATURE: _____

IFB #13-1774-OV, Construction of ADA Boarding BASE Pads
(Submit in Triplicate) Section 00300

Manatee County Area Transit (MCAT) of Bus Stop Improvements

Construction of ADA Boarding BASE Pads

Quantities listed are Estimated Quantities and are provided to you as a guideline for preparing your bid and should not be construed as representing actual quantities to be purchased.

ITEM NO.	DESCRIPTION	QTY	U/M	BID PRICE	EXTENDED PRICE
4	<u>ADA BOARDING BASE PADS CONDITION NO. 4</u> as detailed in the ADA Boarding Pad Base Drawings. Provide pricing for all work installed and shall include labor, material, equipment, excavation, sub-grade compaction, form work, 6" thick concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.	10	EA	\$	\$
5	<u>ADA BOARDING BASE PADS CONDITION NO. 5</u> as detailed in the ADA Boarding Pad Base Drawings. Provide pricing for all work installed and shall include labor, material, equipment, excavation, sub-grade compaction, form work, 6" thick concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.	15	EA	\$	\$
6	<u>ADA BOARDING BASE PADS CONDITION NO. 6</u> as detailed in the ADA Boarding Pad Base Drawings. Provide pricing for all work installed and shall include labor, material, equipment, excavation, sub-grade compaction, form work, 6" thick concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.	5	EA	\$	\$

BIDDER: _____

AUTHORIZED SIGNATURE: _____

IFB #13-1774-OV, Construction of ADA Boarding BASE Pads
(Submit in Triplicate) Section 00300

Manatee County Area Transit (MCAT) of Bus Stop Improvements

Construction of ADA Boarding BASE Pads

Quantities listed are Estimated Quantities and are provided to you as a guideline for preparing your bid and should not be construed as representing actual quantities to be purchased.

ITEM NO.	DESCRIPTION	QTY	U/M	BID PRICE	EXTENDED PRICE
7	<u>ADA BOARDING BASE PADS CONDITION NO. 7</u> as detailed in the ADA Boarding Pad Base Drawings. Provide pricing for all work installed and shall include labor, material, equipment, excavation, sub-grade compaction, form work, 6" thick concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.	5	EA	\$	\$
8	<u>ADA BOARDING BASE PADS CONDITION NO. 8</u> as detailed in the ADA Boarding Pad Base Drawings. Provide pricing for all work installed and shall include labor, material, equipment, excavation, sub-grade compaction, form work, 6" thick concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.	5	EA	\$	\$
9	<u>ADA BOARDING BASE PADS CONDITION NO. 9</u> as detailed in the ADA Boarding Pad Base Drawings. Provide pricing for all work installed and shall include labor, material, equipment, excavation, sub-grade compaction, form work, 6" thick concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.	10	EA	\$	\$

BIDDER: _____

AUTHORIZED SIGNATURE: _____

IFB #13-1774-OV, Construction of ADA Boarding BASE Pads
(Submit in Triplicate) Section 00300

Manatee County Area Transit (MCAT) of Bus Stop Improvements

Construction of ADA Boarding BASE Pads

Quantities listed are Estimated Quantities and are provided to you as a guideline for preparing your bid and should not be construed as representing actual quantities to be purchased.

ITEM NO.	DESCRIPTION	QTY	U/M	BID PRICE	EXTENDED PRICE
10	<u>ADA BOARDING BASE PADS CONDITION NO. 10</u> as detailed in the ADA Boarding Pad Base Drawings. Provide pricing for all work installed and shall include labor, material, equipment, excavation, sub-grade compaction, form work, 6" thick concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.	102	EA	\$	\$
11	<u>Type F Curbing</u> - Provide pricing for the installation of Type F curbing as indicated on the plans per FDOT Standards. Pricing shall include all labor, material and equipment required for the curb placement. The work shall include excavation, subgrade compaction, form work, concrete placement, curing and finishing.	50	LF	\$	\$
12	<u>Handrail</u> - Provide pricing for the installation of aluminum railing in accordance with FDOT Index #870. Pricing shall include Handrail, labor, material and equipment for the Handrail installation.	100	LF	\$	\$
13	<u>Landscaping, Bahia Sod</u> - Provide pricing of Sod. Pricing shall include all labor, material and equipment required for the Sod placement	2,000	SY	\$	\$
14	<u>Culvert Pipe</u> - Provide pricing for the Culvert Pipe as indicated on the drawings and in accordance with FDOT Standard Index 273. Pricing shall include all labor, material and equipment for the pipe installation.	42	LF	\$	\$

BIDDER: _____

AUTHORIZED SIGNATURE: _____

IFB #13-1774-OV, Construction of ADA Boarding BASE Pads
(Submit in Triplicate) Section 00300

Manatee County Area Transit (MCAT) of Bus Stop Improvements

Construction of ADA Boarding BASE Pads

Quantities listed are Estimated Quantities and are provided to you as a guideline for preparing your bid and should not be construed as representing actual quantities to be purchased.

ITEM NO.	DESCRIPTION	QTY	U/M	BID PRICE	EXTENDED PRICE
15	MAINTENANCE OF TRAFFIC				
16	Crew Complete, Includes Truck, Foreman, (2) Flaggers		DAY	\$	\$
17	Flag Personnel, Includes two (2) Flaggers Only		DAY	\$	\$
18	Additional Flag Personnel, one (1) Flagger Only		HOURL	\$	\$
19	Temporary Signal Detection		DAY	\$	\$
20	Mobilization / Demobilization shall include full compensation required for insurance for the project, included by not limited to: preparation and movement of personnel equipment, supplies and incidentals such as safety and sanitary supplies / facilities. Payment for mobilization shall not exceed 10 percent (10% of the Sub-Total).	85	YEAR	\$	\$
SUB-TOTAL ADA BOARDING (BASE) PADS, ITEMS 1 THROUGH 20					
			UNIT PRICE	MULTIPLIER	
	OVERTIME SURCHARGE SHALL BE AT THE RATE OF:	HOURS	\$	X 40 HOURS=	\$

BIDDER: _____

AUTHORIZED SIGNATURE: _____

BID FORM SUBCONTRACTOR PERCENTAGE FORM

(Submit in Triplicate) Section 00300

Manatee County Area Transit (MCAT) of Bus Stop Improvements

IFB #13-1774-OV, Construction of ADA Boarding Pads Including: 1) Base Pads, 2) ADA Boarding Pads w/ Shelter Slabs and 3) ADA Boarding Pads w/ Bench Slabs

ITEM NO.	DESCRIPTION	%	DBE	DESCRIPTION OF WORK BY SUBCONTRACTOR	NAME AND CONTACT INFORMATION OF SUBCONTRACTOR
	ADA BOARDING (BASE)PADS, TYPICAL FOR CONDITIONS 1 THROUGH 10				
1	<u>ADA BOARDING BASE PADS CONDITION NO. 1</u> as detailed in the ADA Boarding Pad Base Drawings. Payment shall be made for work installed and accepted and shall include labor, material, equipment , excavation, sub-grade compaction, form work, concrete placement, culvert installation, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.				
2	<u>ADA BOARDING BASE PADS CONDITION NO. 2</u> as detailed in the ADA Boarding Pad Base Drawings. Payment shall be made for all work installed and accepted and shall include labor, material, equipment , excavation, sub-grade compaction, form work, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.				
3	<u>ADA BOARDING BASE PADS CONDITION NO. 3</u> as detailed in the ADA Boarding Pad Base Drawings. Payment shall be made for all work installed and accepted and shall include labor, material, equipment , excavation, sub-grade compaction, form work, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.				

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AUTHORIZED SIGNATURE: _____

BID FORM SUBCONTRACTOR PERCENTAGE FORM

(Submit in Triplicate) Section 00300

Manatee County Area Transit (MCAT) of Bus Stop Improvements

IFB #13-1774-OV, Construction of ADA Boarding Pads Including: 1) Base Pads, 2) ADA Boarding Pads w/ Shelter Slabs and 3) ADA Boarding Pads w/ Bench Slabs

ITEM NO.	DESCRIPTION	%	DBE	DESCRIPTION OF WORK BY SUBCONTRACTOR	NAME AND CONTACT INFORMATION OF SUBCONTRACTOR
4	ADA BOARDING BASE PADS CONDITION NO. 4 as detailed in the ADA Boarding Pad Base Drawings. Payment shall be made for all work installed and accepted and shall include labor, material, equipment, excavation, sub-grade compaction, form work, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.				
5	ADA BOARDING BASE PADS CONDITION NO. 5 as detailed in the ADA Boarding Pad Base Drawings. Payment shall be made for all work installed and accepted and shall include labor, material, equipment, excavation, sub-grade compaction, form work, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.				
6	ADA BOARDING BASE PADS CONDITION NO. 6 as detailed in the ADA Boarding Pad Base Drawings. Payment shall be made for all work installed and accepted and shall include labor, material, equipment, excavation, sub-grade compaction, form work, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.				

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AUTHORIZED SIGNATURE: _____

BID FORM SUBCONTRACTOR PERCENTAGE FORM
(Submit in Triplicate) Section 00300

Manatee County Area Transit (MCAT) of Bus Stop Improvements

IFB #13-1774-OV, Construction of ADA Boarding Pads Including: 1) Base Pads, 2) ADA Boarding Pads w/ Shelter Slabs and 3) ADA Boarding Pads w/ Bench Slabs

ITEM NO.	DESCRIPTION	%	DBE	DESCRIPTION OF WORK BY SUBCONTRACTOR	NAME AND CONTACT INFORMATION OF SUBCONTRACTOR
7	ADA BOARDING BASE PADS CONDITION NO. 7 as detailed in the ADA Boarding Pad Base Drawings. Payment shall be made for all work installed and accepted and shall include labor, material, equipment, excavation, sub-grade compaction, form work, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.				
8	ADA BOARDING BASE PADS CONDITION NO. 8 as detailed in the ADA Boarding Pad Base Drawings. Payment shall be made for all work installed and accepted and shall include labor, material, equipment, excavation, sub-grade compaction, form work, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.				
9	ADA BOARDING BASE PADS CONDITION NO. 9 as detailed in the ADA Boarding Pad Base Drawings. Payment shall be made for all work installed and accepted and shall include labor, material, equipment, excavation, sub-grade compaction, form work, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.				

BIDDER: _____

AUTHORIZED SIGNATURE: _____

BID FORM SUBCONTRACTOR PERCENTAGE FORM

(Submit in Triplicate) Section 00300

Manatee County Area Transit (MCAT) of Bus Stop Improvements

IFB #13-1774-OV, Construction of ADA Boarding Pads Including: 1) Base Pads, 2) ADA Boarding Pads w/ Shelter Slabs and 3) ADA Boarding Pads w/ Bench Slabs

ITEM NO.	DESCRIPTION	%	DBE	DESCRIPTION OF WORK BY SUBCONTRACTOR	NAME AND CONTACT INFORMATION OF SUBCONTRACTOR
10	ADA BOARDING BASE PADS CONDITION NO. 10 as detailed in the ADA Boarding Pad Base Drawings. Payment shall be made for all work installed and accepted and shall include labor, material, equipment, excavation, sub-grade compaction, form work, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.				
11	Type F Curbing - Provide pricing for the installation of Type F curbing as indicated on the plans per FDOT Standards. Pricing shall include all labor, material and equipment required for the curb placement. The work shall include excavation, subgrade compaction, form work, concrete placement, curing and finishing.				
12	Handrail - Provide pricing for the installation of aluminum railing in accordance with FDOT Index #870. Pricing shall include Handrail, labor, material and equipment for the Handrail installation.				
13	Landscaping, Bahia Sod - Provide pricing of Sod. Pricing shall include all labor, material and equipment required for the Sod placement				
14	Culvert Pipe - Provide pricing for the Culvert Pipe as indicated on the drawings and in accordance with FDOT Standard Index 273. Pricing shall include all labor, material and equipment for the pipe installation.				
15	MAINTENANCE OF TRAFFIC				
16	Crew Complete, Includes Truck, Foreman, (2) Flaggers				
17	Flag Personnel, Includes two (2) Flaggers Only				

BIDDER: _____

AUTHORIZED SIGNATURE: _____

BID FORM SUBCONTRACTOR PERCENTAGE FORM
(Submit in Triplicate) Section 00300

Manatee County Area Transit (MCAT) of Bus Stop Improvements

IFB #13-1774-OV, Construction of ADA Boarding Pads Including: 1) Base Pads, 2) ADA Boarding Pads w/ Shelter Slabs and 3) ADA Boarding Pads w/ Bench Slabs

ITEM NO.	DESCRIPTION	%	DBE	DESCRIPTION OF WORK BY SUBCONTRACTOR	NAME AND CONTACT INFORMATION OF SUBCONTRACTOR
18	Additional Flag Personnel, one (1) Flagger Only				
19	Temporary Signal Detection				
20	Mobilization / Demobilization shall include full compensation required for insurance for the project, included by not limited to: preparation and movement of personnel equipment, supplies and incidentals such as safety and sanitary supplies / facilities. Payment for mobilization shall not exceed 10 percent (10% of the Sub-Total).				
This is a duplication of the Bid Items where the Bidder shall state the percentage of work (of each item listed) and a description of the work which shall be performed by a subcontractor.					

BIDDER: _____

AUTHORIZED SIGNATURE: _____

Bid Form, IFB #13-1774-OV, Construction of ADA Board Pads w/ Shelter Slabs

(Submit in Triplicate) Section 00300
 Manatee County Area Transit (MCAT) of Bus Stop Improvements
ADA Boarding Pads w/ Shelter Slabs

Quantities listed are Estimated Quantities and are provided to you as a guideline for preparing your bid and should not be construed as representing actual quantities to be purchased.

ITEM NO.	DESCRIPTION	QTY	U/M	BID PRICE	EXTENDED PRICE
<u>ADA BOARDING PADS W/ SHELTER SLABS, TYPICAL FOR CONDITIONS 1 THROUGH 10</u>					
1	<u>ADA Boarding Pads w/ Shelter Slabs - Condition No. 1 as detailed in the ADA Boarding Pads W/ Shelter Slabs Drawings.</u> Provide pricing for all work installed and shall include labor, material, equipment, excavation, equipment, sub-grade compaction, form work, 6" thick concrete, concrete placement, culvert installation, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.	2	EA	\$	\$
2	<u>ADA Boarding Pads w/ Shelter Slabs - Condition No. 2 as detailed in the ADA Boarding Pads W/ Shelter Slabs Drawings.</u> Provide pricing for all work installed as indicated on the drawing and shall include labor, material, equipment, excavation, equipment, sub-grade compaction, form work, 6" thick concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.	10	EA	\$	\$

BIDDER: _____

AUTHORIZED SIGNATURE: _____

Bid Form, IFB #13-1774-OV, Construction of ADA Board Pads w/ Shelter Slabs

(Submit in Triplicate) Section 00300
 Manatee County Area Transit (MCAT) of Bus Stop Improvements
ADA Boarding Pads w/ Shelter Slabs

Quantities listed are Estimated Quantities and are provided to you as a guideline for preparing your bid and should not be construed as representing actual quantities to be purchased.

ITEM NO.	DESCRIPTION	QTY	U/M	BID PRICE	EXTENDED PRICE
3	<p><u>ADA Boarding Pads w/ Shelter Slabs - Condition No. 3 as detailed in the ADA Boarding Pads W/ Shelter Slabs Drawings.</u> Provide pricing for all work installed as indicated on the drawing and shall include all labor, material, equipment, excavation, sub-grade compaction, form work, 6" thick concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.</p>	10	EA	\$	\$
4	<p><u>ADA Boarding Pads w/ Shelter Slabs - Condition No. 4 as detailed in the ADA Boarding Pads W/ Shelter Slabs Drawings.</u> Provide pricing for all work installed as indicated on the drawing and shall include all labor, material, equipment, excavation, sub-grade compaction, form work, 6" thick concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.</p>	10	EA	\$	\$

BIDDER: _____

AUTHORIZED SIGNATURE: _____

Bid Form, IFB #13-1774-OV, Construction of ADA Board Pads w/ Shelter Slabs

(Submit in Triplicate) Section 00300
 Manatee County Area Transit (MCAT) of Bus Stop Improvements
ADA Boarding Pads w/ Shelter Slabs

Quantities listed are Estimated Quantities and are provided to you as a guideline for preparing your bid and should not be construed as representing actual quantities to be purchased.

ITEM NO.	DESCRIPTION	QTY	U/M	BID PRICE	EXTENDED PRICE
5	<u>ADA Boarding Pads w/ Shelter Slabs - Condition No. 5 as detailed in the ADA Boarding Pads W/ Shelter Slabs Drawings.</u> Provide pricing for all work installed as indicated on the drawing and shall include all labor, material, equipment, excavation, sub-grade compaction, form work, 6" thick concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.	5	EA	\$	\$
6	<u>ADA Boarding Pads w/ Shelter Slabs - Condition No. 6 as detailed in the ADA Boarding Pads W/ Shelter Slabs Drawings.</u> Provide pricing for all work installed as indicated on the drawing and shall include all labor, material, equipment, excavation, sub-grade compaction, form work, 6" thick concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.	5	EA	\$	\$
7	<u>ADA Boarding Pads w/ Shelter Slabs - Condition No. 7 as detailed in the ADA Boarding Pads W/ Shelter Slabs Drawings.</u> Provide pricing for all work installed as indicated on the drawing and shall include all labor, material, equipment, excavation, sub-grade compaction, form work, 6" thick concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.	5	EA	\$	\$

Bid Form, IFB #13-1774-OV, Construction of ADA Board Pads w/ Shelter Slabs

(Submit in Triplicate) Section 00300
 Manatee County Area Transit (MCAT) of Bus Stop Improvements
ADA Boarding Pads w/ Shelter Slabs

Quantities listed are Estimated Quantities and are provided to you as a guideline for preparing your bid and should not be construed as representing actual quantities to be purchased.

ITEM NO.	DESCRIPTION	QTY	U/M	BID PRICE	EXTENDED PRICE
8	<u>ADA Boarding Pads w/ Shelter Slabs - Condition No. 8 as detailed in the ADA Boarding Pads W/ Shelter Slabs Drawings.</u> Provide pricing for all work installed as indicated on the drawing and shall include all labor, material, equipment , excavation, sub-grade compaction, form work, 6" thick concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.	5	EA	\$	\$
9	<u>ADA Boarding Pads w/ Shelter Slabs - Condition No. 9 as detailed in the ADA Boarding Pads W/ Shelter Slabs Drawings.</u> Provide pricing for all work installed as indicated on the drawing and shall include all labor, material, equipment , excavation, sub-grade compaction, form work, 6" thick concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.	5	EA	\$	\$
10	<u>ADA Boarding Pads w/ Shelter Slabs - Condition 10 as detailed in the ADA Boarding Pads W/ Shelter Slabs Drawings.</u> Provide pricing for all work installed as indicated on the drawing and shall include all labor, material, equipment , excavation, sub-grade compaction, form work, 6" thick concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.	10	EA	\$	\$

BIDDER: _____

AUTHORIZED SIGNATURE: _____

Bid Form. IFB #13-1774-OV, Construction of ADA Board Pads w/ Shelter Slabs

(Submit in Triplicate) Section 00300
 Manatee County Area Transit (MCAT) of Bus Stop Improvements
ADA Boarding Pads w/ Shelter Slabs

Quantities listed are Estimated Quantities and are provided to you as a guideline for preparing your bid and should not be construed as representing actual quantities to be purchased.

ITEM NO.	DESCRIPTION	QTY	U/M	BID PRICE	EXTENDED PRICE
11	Type F Curbing - Provide Pricing for the installation of Type F curbing as indicated on the plans per FDOT Standards. Pricing shall include all labor, material, equipment required for the curb placement. The work shall include excavation, subgrade compaction, form work, concrete placement, curing and finishing.	50	LF	\$	\$
12	Handrail - Provide pricing for the installation of aluminum railing in accordance with FDOT Index #870. Pricing shall include Handrail, all labor, material and equipment required for the Handrail installation.	100	LF	\$	\$
13	Landscaping, Bahia Sod - Provide pricing of Sod. Pricing shall include all labor, material and equipment required for the Sod placement.	3,500	SY	\$	\$
14	Culvert Pipe - Provide pricing for the Culvert Pipe as indicated on the drawings and in accordance with FDOT Standard Index 273. Pricing shall include all labor, material and equipment for the pipe installation.	42	LF	\$	\$
15	MAINTENANCE OF TRAFFIC				
16	Crew Complete, Includes Truck, Foreman, (2) Flaggers		DAY	\$	\$
17	Flag Personnel, Includes two (2) Flaggers Only		DAY	\$	\$
18	Additional Flag Personnel, one (1) Flagger Only		HOURL	\$	\$
19	Temporary Signal Detection		DAY	\$	\$

BIDDER:

AUTHORIZED SIGNATURE:

Bid Form. IFB #13-1774-OV, Construction of ADA Board Pads w/ Shelter Slabs

(Submit in Triplicate) Section 00300.
 Manatee County Area Transit (MCAT) of Bus Stop Improvements
ADA Boarding Pads w/ Shelter Slabs

Quantities listed are Estimated Quantities and are provided to you as a guideline for preparing your bid and should not be construed as representing actual quantities to be purchased.

ITEM NO.	DESCRIPTION	QTY	U/M	BID PRICE	EXTENDED PRICE
20	Mobilization / Demobilization shall include full compensation required for insurance for the project, included by not limited to: preparation and movement of personnel equipment, supplies and incidentals such as safety and sanitary supplies / facilities. Payment for mobilization shall not exceed 10 percent (10% of the Sub-Total).	35	YEAR	\$	\$
SUB-TOTAL ADA BOARDING PADS W/ SHELTER SLABS, ITEMS 1 THROUGH 20					
			UNIT PRICE	MULTIPLIER	
	OVERTIME SURCHARGE SHALL BE AT THE RATE OF:	HOURS	\$	X 40 HOURS =	\$

BIDDER: _____

AUTHORIZED SIGNATURE: _____

Bid Form / Subcontractor Percentage Form
(Submit in Triplicate) Section 00300

Manatee County Area Transit (MCAT) of Bus Stop Improvements

IFB #13-1774-OV, Construction of ADA Boarding Pads Including: 1) Base Pads, 2) ADA Boarding Pads w/ Shelter Slabs and 3) ADA Boarding Pads w/ Bench Slabs

ITEM NO.	DESCRIPTION	%	DBE	DESCRIPTION OF WORK BY SUBCONTRACTOR	NAME AND CONTACT INFORMATION OF SUBCONTRACTOR
ADA BOARDING PADS W/ SHELTER SLABS, TYPICAL FOR CONDITIONS 1 THROUGH 10					
1	ADA Boarding Pads w/ Shelter Slabs - Condition No. 1 as detailed in the ADA Boarding Pads W/ Shelter Slabs Drawings. Provide pricing for all work installed and shall include labor, material, equipment, excavation, equipment, sub-grade compaction, form work, 6" thick concrete, concrete placement, culvert installation, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this invitation for Bid.				
2	ADA Boarding Pads w/ Shelter Slabs - Condition No. 2 as detailed in the ADA Boarding Pads W/ Shelter Slabs Drawings. Provide pricing for all work installed as indicated on the drawing and shall include labor, material, equipment, excavation, equipment, sub-grade compaction, form work, 6" thick concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this invitation for Bid.				
3	ADA Boarding Pads w/ Shelter Slabs - Condition No. 3 as detailed in the ADA Boarding Pads W/ Shelter Slabs Drawings. Provide pricing for all work installed as indicated on the drawing and shall include all labor, material, equipment, excavation, sub-grade compaction, form work, 6" thick concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this invitation for Bid.				

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Manatee County Area Transit (MCAT) of Bus Stop Improvements

IFB #13-1774-OV, Construction of ADA Boarding Pads Including: 1) Base Pads, 2) ADA Boarding Pads w/ Shelter Slabs and 3) ADA Boarding Pads w/ Bench Slabs

ITEM NO.	DESCRIPTION	%	DBE	DESCRIPTION OF WORK BY SUBCONTRACTOR	NAME AND CONTACT INFORMATION OF SUBCONTRACTOR
4	<p><u>ADA Boarding Pads w/ Shelter Slabs - Condition No. 4 as detailed in the ADA Boarding Pads W/ Shelter Slabs Drawings.</u> Provide pricing for all work installed as indicated on the drawing and shall include all labor, material, equipment, excavation, sub-grade compaction, form work, 6" thick concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.</p>				
5	<p><u>ADA Boarding Pads w/ Shelter Slabs - Condition No. 5 as detailed in the ADA Boarding Pads W/ Shelter Slabs Drawings.</u> Provide pricing for all work installed as indicated on the drawing and shall include all labor, material, equipment, excavation, sub-grade compaction, form work, 6" thick concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.</p>				
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Bid Form / Subcontractor Percentage Form
(Submit in Triplicate) Section 00300

Manatee County Area Transit (MCAT) of Bus Stop Improvements

IFB #13-1774-OV, Construction of ADA Boarding Pads Including: 1) Base Pads, 2) ADA Boarding Pads w/ Shelter Slabs and 3) ADA Boarding Pads w/ Bench Slabs

ITEM NO.	DESCRIPTION	%	DBE	DESCRIPTION OF WORK BY SUBCONTRACTOR	NAME AND CONTACT INFORMATION OF SUBCONTRACTOR
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BIDDER: _____

AUTHORIZED SIGNATURE: _____

Bid Form / Subcontractor Percentage Form
(Submit in Triplicate) Section 00300

Manatee County Area Transit (MCAT) of Bus Stop Improvements

IFB #13-1774-OV, Construction of ADA Boarding Pads Including: 1) Base Pads, 2) ADA Boarding Pads w/ Shelter Slabs and 3) ADA Boarding Pads w/ Bench Slabs

ITEM NO.	DESCRIPTION	%	DBE	DESCRIPTION OF WORK BY SUBCONTRACTOR	NAME AND CONTACT INFORMATION OF SUBCONTRACTOR
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11	Type F Curbing - Providing pricing for the installation of Type F curbing as indicated on the plans per FDOT Standards. Pricing shall include all labor, material and equipment required for the curb placement.				
12	Handrail - Provide pricing for the installation of aluminum railing in accordance with FDOT Index #870. Pricing shall include all labor, material and equipment required for the Handrail Installation.				
13	Landscaping, Bahia Sod - Provide pricing of Sod. Pricing shall include all labor, material and equipment required for the Sod placement.				
14	Culvert Pipe - Provide pricing for the Culvert Pipe as indicated on the drawings and in accordance with FDOT Standard Index 273. Pricing shall include all labor, material and equipment for the pipe installation.				
15	MAINTENANCE OF TRAFFIC				
16	Crew Complete, Includes Truck, Foreman, (2) Flaggers				
17	Flag Personnel, Includes two (2) Flaggers Only				
18	Additional Flag Personnel, one (1) Flagger Only				
19	Temporary Signal Detection				
20	Mobilization / Demobilization shall include full compensation required for insurance for the project, included by not limited to: preparation and movement of personnel equipment, supplies and incidentals such as safety and sanitary supplies / facilities. Payment for mobilization shall not exceed 10 percent (10% of the Sub-Total).				

BIDDER: _____

AUTHORIZED SIGNATURE: _____

Bid Form, IFB #13-1774-OV, Construction of **ADA Boarding Pads w/ Bench Slabs**

(Submit in Triplicate) Section 00300

Manatee County Area Transit (MCAT) of Bus Stop Improvements

ADA Boarding Pads w/ Bench Slabs

Quantities listed are Estimated Quantities and are provided to you as a guideline for preparing your bid and should not be construed as representing actual quantities to be purchased.

ITEM NO.	DESCRIPTION	QTY	U/M	BID PRICE	EXTENDED PRICE
ADA BOARDING PADS W/ BENCH SLABS, TYPICAL FOR CONDITIONS 1 THROUGH 10					
1	ADA Boarding Pads w/ Bench Slabs - Condition No. 1 - as detailed in the <u>ADA Boarding Pads W/Bench Slab Drawings</u> . Provide pricing for all work installed and shall include labor, material, equipment, excavation, sub-grade compaction, form work, 6" thick concrete, concrete placement, culvert installation, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.	2	ea	\$	\$
2	ADA Boarding Pads w/ Bench Slabs - Condition No. 2 - as detailed in the <u>ADA Boarding Pads W/Bench Slab Drawings</u> . Provide pricing for all work installed and shall include labor, material, equipment, excavation, sub-grade compaction, form work, 6" thick concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.	20	EA	\$	\$
3	ADA Boarding Pads w/ Bench Slabs - Condition No. 3 - as detailed in the <u>ADA Boarding Pads W/Bench Slab Drawings</u> . Provide pricing for all work installed and shall include labor, material, equipment, excavation, sub-grade compaction, form work, 6" thick concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.	20	EA	\$	\$

Bid Form, IFB #13-1774-OV, Construction of ADA Boarding Pads w/ Bench Slabs

(Submit in Triplicate) Section 00300

Manatee County Area Transit (MCAT) of Bus Stop Improvements

ADA Boarding Pads w/ Bench Slabs

Quantities listed are Estimated Quantities and are provided to you as a guideline for preparing your bid and should not be construed as representing actual quantities to be purchased.

ITEM NO.	DESCRIPTION	QTY	U/M	BID PRICE	EXTENDED PRICE
4	ADA Boarding Pads w/ Bench Slabs - Condition No. 4 - as detailed in the ADA Boarding Pads W/Bench Slab Drawings. Provide pricing for all work installed and shall include labor, material, equipment, excavation, sub-grade compaction, form work, 6" thick concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.	10	EA	\$	\$
5	ADA Boarding Pads w/ Bench Slabs - Condition No. 5 - as detailed in the ADA Boarding Pads W/Bench Slab Drawings. Provide pricing for all work installed and shall include labor, material, equipment, excavation, sub-grade compaction, form work, 6" thick concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.	10	EA	\$	\$
6	ADA Boarding Pads w/ Bench Slabs - Condition No. 6 - as detailed in the ADA Boarding Pads W/Bench Slab Drawings. Provide pricing for all work installed and shall include labor, material, equipment, excavation, sub-grade compaction, form work, 6" thick concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.	10	EA		

BIDDER: _____

AUTHORIZED SIGNATURE: _____

Bid Form, IFB #13-1774-OV, Construction of ADA Boarding Pads w/ Bench Slabs

(Submit in Triplicate) Section 00300

Manatee County Area Transit (MCAT) of Bus Stop Improvements

ADA Boarding Pads w/ Bench Slabs

Quantities listed are Estimated Quantities and are provided to you as a guideline for preparing your bid and should not be construed as representing actual quantities to be purchased.

ITEM NO.	DESCRIPTION	QTY	U/M	BID PRICE	EXTENDED PRICE
7	<u>ADA Boarding Pads w/ Bench Slabs - Condition No. 7</u> - as detailed in the ADA Boarding Pads W/Bench Slab Drawings. Provide pricing for all work installed and shall include labor, material, equipment, excavation, sub-grade compaction, form work, 6" thick concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.	5	EA		
8	<u>ADA Boarding Pads w/ Bench Slabs - Condition No. 8</u> - as detailed in the ADA Boarding Pads W/Bench Slab Drawings. Provide pricing for all work installed and shall include labor, material, equipment, excavation, sub-grade compaction, form work, 6" thick concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.	5	EA		
9	<u>ADA Boarding Pads w/ Bench Slabs - Condition No. 9</u> - as detailed in the ADA Boarding Pads W/Bench Slab Drawings. Provide pricing for all work installed and shall include labor, material, equipment, excavation, sub-grade compaction, form work, 6" thick concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.	10	EA		

BIDDER: _____

AUTHORIZED SIGNATURE: _____

Bid Form, IFB #13-1774-OV, Construction of ADA Boarding Pads w/ Bench Slabs

(Submit in Triplicate) Section 00300

Manatee County Area Transit (MCAT) of Bus Stop Improvements

ADA Boarding Pads w/ Bench Slabs

Quantities listed are Estimated Quantities and are provided to you as a guideline for preparing your bid and should not be construed as representing actual quantities to be purchased.

ITEM NO.	DESCRIPTION	QTY	U/M	BID PRICE	EXTENDED PRICE
10	ADA Boarding Pads w/ Bench Slabs - Condition No. 10 - as detailed in the ADA Boarding Pads W/Bench Slab Drawings. Provide pricing for all work installed and shall include labor, material, equipment, excavation, sub-grade compaction, form work, 6" thick concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.	10	EA		
11	Bench and Trash Receptacle - Provide cost for the installation only of a single Bench and Trash Receptacle as indicated on the Typical, Conditions 1 through 10. Bench and Trash Receptacle shall be provided by the County.	50	EA	\$	\$
12	Type F Curbing - Provide pricing for the installation of Type F curbing as indicated on the plans per FDOT Standards. Pricing shall include all labor, material and equipment required for the curb placement. The work shall include excavation, subgrade compaction, form work, concrete placement, curing and finishing.	50	LF	\$	\$
13	Handrail - Provide pricing for the installation of aluminum railing in accordance with FDOT Index #870. Pricing shall include Handrail, all labor, material and equipment required for the Handrail installation.	100	LF	\$	\$
14	Landscaping, Bahia Sod - Provide pricing of Sod. Pricing shall include all labor, material and equipment required for the Sod placement.	2,000	SY	\$	\$

BIDDER: _____

AUTHORIZED SIGNATURE: _____

Bid Form, IFB #13-1774-OV, Construction of ADA Boarding Pads w/ Bench Slabs

(Submit in Triplicate) Section 00300

Manatee County Area Transit (MCAT) of Bus Stop Improvements

ADA Boarding Pads w/ Bench Slabs

Quantities listed are Estimated Quantities and are provided to you as a guideline for preparing your bid and should not be construed as representing actual quantities to be purchased.

ITEM NO.	DESCRIPTION	QTY	U/M	BID PRICE	EXTENDED PRICE
15	<u>Culvert Pipe</u> - Provide pricing for the Culvert Pipe as indicated on the drawings and in accordance with FDOT Standard Index 273. Pricing shall include all labor, material and equipment for the pipe installation.	42	LF	\$	\$
16	MAINTENANCE OF TRAFFIC				
17	Crew Complete, Includes Truck, Foreman (2) Flaggers		DAY	\$	\$
18	Flag Personnel, Includes two (2) Flaggers Only		DAY	\$	\$
19	Additional Flag Personnel, one (1) Flagger Only		HOUR	\$	\$
20	Temporary Signal Detection		DAY	\$	\$
21	Mobilization / Demobilization shall include full compensation required for insurance for the project, included by not limited to: preparation and movement of personnel equipment, supplies and incidentals such as safety and sanitary supplies / facilities. Payment for mobilization shall not exceed 10 percent (10% of the Sub-Total).	50	YEAR	\$	\$
SUB-TOTAL ADA BOARDING PADS W/BENCH SLABS, ITEMS 1 THROUGH 21					
		U/M	UNIT PRICE	MULTIPLIER	
	OVERTIME SURCHARGE SHALL BE AT THE RATE OF:	HOURS	\$	x 40 HOURS =	\$

BIDDER:

AUTHORIZED SIGNATURE:

Bid Form / Subcontractor Percentage Form
(Submit in Triplicate) Section 00300

Manatee County Area Transit (MCAT) of Bus Stop Improvements

IFB #13-1774-OV, Construction of ADA Boarding Pads Including: 1) Base Pads, 2) ADA Boarding Pads w/ Shelter Slabs and 3) ADA Boarding Pads w/ Bench Slabs

ITEM NO.	DESCRIPTION	%	DBE	DESCRIPTION OF WORK BY SUBCONTRACTOR	NAME AND CONTACT INFORMATION OF SUBCONTRACTOR
	ADA BOARDING PADS W/ BENCH SLABS, TYPICAL FOR CONDITIONS 1 THROUGH 10				
1	<u>ADA Boarding Pads w/ Bench Slabs - Condition No. 1</u> - as detailed in the ADA Boarding Pads W/Bench Slab Drawings. Provide pricing for all work installed and shall include labor, material, equipment, excavation, sub-grade compaction, form work, concrete, concrete placement, culvert installation, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.				
2	<u>ADA Boarding Pads w/ Bench Slabs - Condition No. 2</u> - as detailed in the ADA Boarding Pads W/Bench Slab Drawings. Provide pricing for all work installed and shall include labor, material, equipment, excavation, sub-grade compaction, form work, concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.				
3	<u>ADA Boarding Pads w/ Bench Slabs - Condition No. 3</u> - as detailed in the ADA Boarding Pads W/Bench Slab Drawings. Provide pricing for all work installed and shall include labor, material, equipment, excavation, sub-grade compaction, form work, concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.				

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Bid Form / Subcontractor Percentage Form
(Submit in Triplicate) Section 00300

Manatee County Area Transit (MCAT) of Bus Stop Improvements

IFB #13-1774-OV, Construction of ADA Boarding Pads Including: 1) Base Pads, 2) ADA Boarding Pads w/ Shelter Slabs and 3) ADA Boarding Pads w/ Bench Slabs

ITEM NO.	DESCRIPTION	%	DBE	DESCRIPTION OF WORK BY SUBCONTRACTOR	NAME AND CONTACT INFORMATION OF SUBCONTRACTOR
4	<u>ADA Boarding Pads w/ Bench Slabs - Condition No. 4</u> - as detailed in the ADA Boarding Pads W/Bench Slab Drawings. Provide pricing for all work installed and shall include labor, material, equipment, excavation, sub-grade compaction, form work, concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.				
5	<u>ADA Boarding Pads w/ Bench Slabs - Condition No. 5</u> - as detailed in the ADA Boarding Pads W/Bench Slab Drawings. Provide pricing for all work installed and shall include labor, material, equipment, excavation, sub-grade compaction, form work, concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.				
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AUTHORIZED SIGNATURE: _____

Bid Form / Subcontractor Percentage Form
(Submit in Triplicate) Section 00300

Manatee County Area Transit (MCAT) of Bus Stop Improvements

IFB #13-1774-OV, Construction of ADA Boarding Pads Including: 1) Base Pads, 2) ADA Boarding Pads w/ Shelter Slabs and 3) ADA Boarding Pads w/ Bench Slabs

ITEM NO.	DESCRIPTION	%	DBE	DESCRIPTION OF WORK BY SUBCONTRACTOR	NAME AND CONTACT INFORMATION OF SUBCONTRACTOR
7	<u>ADA Boarding Pads w/ Bench Slabs - Condition No. 7-</u> as detailed in the <u>ADA Boarding Pads W/Bench Slab Drawings</u> . Provide pricing for all work installed and shall include labor, material, equipment , excavation, sub-grade compaction, form work, concrete, concrete placement,curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.				
8	<u>ADA Boarding Pads w/ Bench Slabs - Condition No. 8-</u> as detailed in the <u>ADA Boarding Pads W/Bench Slab Drawings</u> . Provide pricing for all work installed and shall include labor, material, equipment , excavation, sub-grade compaction, form work, concrete, concrete placement,curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.				
9	<u>ADA Boarding Pads w/ Bench Slabs - Condition No. 9-</u> as detailed in the <u>ADA Boarding Pads W/Bench Slab Drawings</u> . Provide pricing for all work installed and shall include labor, material, equipment , excavation, sub-grade compaction, form work, concrete, concrete placement,curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.				

BIDDER: _____

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Bid Form / Subcontractor Percentage Form
(Submit in Triplicate) Section 00300

Manatee County Area Transit (MCAT) of Bus Stop Improvements

IFB #13-1774-OV, Construction of ADA Boarding Pads Including: 1) Base Pads, 2) ADA Boarding Pads w/ Shelter Slabs and 3) ADA Boarding Pads w/ Bench Slabs

ITEM NO.	DESCRIPTION	%	DBE	DESCRIPTION OF WORK BY SUBCONTRACTOR	NAME AND CONTACT INFORMATION OF SUBCONTRACTOR
10	ADA Boarding Pads w/ Bench Slabs - Condition No. 10 - as detailed in the <u>ADA Boarding Pads W/Bench Slab Drawings</u> . Provide pricing for all work installed and shall include labor, material, equipment, excavation, sub-grade compaction, form work, concrete, concrete placement, curing and finishing. All work shall be in accordance with the latest Manatee County Transportation Department Highway and Drainage Standards which are made a part of this Invitation for Bid.				
11	Bench and Trash Receptacle - Provide cost for the installation only of a single Bench and Trash Receptacle as indicated on the Typical, Conditions 1 thru 10. Bench and Trash Receptacle shall be provided by the County.				
12	Type F Curbing - Provide pricing for the installation of Type F curbing as indicated on the plans per FDOT Standards. Pricing shall include all labor, material and equipment required for the curb placement. The work shall include excavation, subgrade compaction, form work, concrete placement, curing and finishing.				
13	Handrail - Provide pricing for the installation of aluminum railing in accordance with FDOT Index #870. Pricing shall include all labor, material and equipment required for the Handrail installation.				
14	Landscaping, Bahia Sod - Provide pricing of Sod. Pricing shall include all labor, material and equipment required for the Sod placement.				

BIDDER: _____

AUTHORIZED SIGNATURE: _____

Bid Form / Subcontractor Percentage Form
(Submit in Triplicate) Section 00300

Manatee County Area Transit (MCAT) of Bus Stop Improvements

IFB #13-1774-OV, Construction of ADA Boarding Pads Including: 1) Base Pads, 2) ADA Boarding Pads w/ Shelter Slabs and 3) ADA Boarding Pads w/ Bench Slabs

ITEM NO.	DESCRIPTION	%	DBE	DESCRIPTION OF WORK BY SUBCONTRACTOR	NAME AND CONTACT INFORMATION OF SUBCONTRACTOR
15	Culvert Pipe - Provide pricing for the Culvert Pipe as indicated on the drawings and in accordance with FDOT Standard Index 273. Pricing shall include all labor, material and equipment for the pipe installation.				
16	MAINTENANCE OF TRAFFIC				
17	Crew Complete, Includes Truck, Foreman, (2) Flaggers				
18	Flag Personnel, Includes two (2) Flaggers Only				
19	Additional Flag Personnel, one (1) Flagger Only				
20	Temporary Signal Detection				
21	Mobilization / Demobilization shall include full compensation required for insurance for the project, included by not limited to: preparation and movement of personnel equipment, supplies and incidentals such as safety and sanitary supplies / facilities. Payment for mobilization shall not exceed 10 percent (10% of the Sub-Total)				
<p>This is a duplication of the Bid Items where the Bidder shall state the percentage of work (of each item listed) and a description of the work which shall be performed by a subcontractor.</p>					

BIDDER: _____

AUTHORIZED SIGNATURE: _____

**SWORN STATEMENT
THE FLORIDA TRENCH SAFETY ACT**

THIS FORM MUST BE SIGNED IN THE PRESENCE OF A NOTARY PUBLIC OR BY AN OFFICER AUTHORIZED TO ADMINISTER OATHS.

1. This Sworn Statement is submitted with IFB No. #13-1774-OV
2. This Sworn Statement is submitted by _____
whose business address is _____
and, if applicable, its Federal Employer Identification Number (FEIN) is _____. If
the entity has no FEIN, include the Social Security Number of the individual signing this
sworn statement _____.
3. Name of individual signing this Sworn Statement is: _____,
Whose relationship to the above entity is: _____?
4. The Trench Safety Standards that will be in effect during the construction of this project shall
include, but are not limited to: Laws of Florida, Chapters 90-96, TRENCH SAFETY ACT, and
OSHA RULES AND REGULATIONS 29 CFR 1926.650 Subpart P, effective October 1, 1990.
5. The undersigned assures that the entity will comply with the applicable Trench Safety Standards
and agrees to indemnify and hold harmless the County and Engineer, and any of their agents or
employees from any claims arising from the failure to comply with said standard.
6. The undersigned has appropriated the following costs for compliance with the applicable
standards:

<u>Trench Safety Measure (Description)</u>	<u>Units of Measure (LF, SY)</u>	<u>Unit Quantity</u>	<u>Unit Cost</u>	<u>Extended Cost</u>
a. _____	_____	_____	\$ _____	_____
b. _____	_____	_____	\$ _____	_____
c. _____	_____	_____	\$ _____	_____
d. _____	_____	_____	\$ _____	_____

7. The undersigned intends to comply with these standards by instituting the following procedures:

THE UNDERSIGNED, in submitting this Bid, represents that they have reviewed and considered all available geotechnical information and made such other investigations and tests as they may deem necessary to adequately design the trench safety system(s) to be utilized on this project.

(AUTHORIZED SIGNATURE / TITLE)

SWORN to and subscribed before me this _____ day of _____, 2013.

(Impress official seal)

Notary Public, State of Florida: _____

My commission expires: _____

SECTION 00430
CONTRACTOR'S QUESTIONNAIRE
(Submit in Triplicate)

The Bidder warrants the truth and accuracy of all statements and answers herein contained. (Include additional sheets if necessary.)

THIS QUESTIONNAIRE MUST BE COMPLETED AND SUBMITTED WITH YOUR BID/QUOTE.

1. LICENSE #: _____
RECEIPT DATE OF LICENSE—MM/DD/YR _____
License Issued to _____
COMPANY'S NAME: _____

CO. PHYSICAL ADDRESS _____
CITY _____
_____ STATE of INCORPORATION, IF APPLICABLE) _____ (ZIP CODE) _____
(_____) _____ TELEPHONE NUMBER: (_____) _____ FAX _____
EMAIL ADDRESS: _____
 2. Bidding as an individual ___ a partnership: ___ a corporation; ___ a joint venture ___
 3. If a partnership: list names and addresses of partners; if a corporation: list names of officers, directors, shareholders, and state of incorporation; if joint venture: list names and address of ventures' and the same if any venture are a corporation for each such corporation, partnership, or joint venture:

 4. Your organization has been in business (under this firm's name) as a _____

For how many years? _____ Is this firm in bankruptcy? _____
Has license ever been suspended, revoked, removed or under investigation?

- BIDDER: _____

5. Describe and give the date and County of the last three government or private work of similar scope you've completed which are similar in cost, type, size, and nature as the one proposed (for a public entity), include contact name and phone number. Provide the Budget, Actual Cost, Size and Summary of Work for each project. "Attach additional pages as necessary".

6. Have you ever failed to complete work awarded to you? Or provide projects not completed within Contract time. If so, state when, where (Contact name, address, phone number) and why?

7. Have you ever been debarred or prohibited from bidding on a governmental entity's construction project? If yes, name the entity and describe the circumstances:

8. Name three individuals, governmental entities, or corporations for which you (Bidding Entity) have performed similar work and to which you refer. Include contact name and phone number:

1.

2.

3.

BIDDER:

9. If any, list (with Contract amount) WBE/MBE to be utilized: (Additional sheet may be added as required)

10. Are Subcontractors associated with this bid? If yes, list all subcontractors associated with this bid. (Additional sheet may be added as required).

11. What equipment do you own to accomplish this Work? (Additional sheet may be added as required).

12. What equipment will you purchase/rent for the Work? (Specify which)

13. What equipment do you own to accomplish this Work? (Additional sheet may be added as required).

BIDDER: _____

14. What equipment will you purchase/rent for the Work? (Specify which)

15. List the following in connection with the Surety which is providing the Bond(s):

Surety's Name: _____

Surety's Address: _____

Surety's Address: _____

Name, address and phone number of Surety's resident agent for service of
process in Florida:

Phone: (_____) _____

Email: _____

BIDDER: _____

PUBLIC CONTRACTING AND ENVIRONMENTAL CRIMES CERTIFICATION

**SWORN STATEMENT PURSUANT TO ARTICLE V,
MANATEE COUNTY PURCHASING CODE**

THIS FORM MUST BE SIGNED AND SWORN TO IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICIAL AUTHORIZED TO ADMINISTER OATHS.

This sworn statement is submitted to the Manatee County Board of County Commissioners by

[Print individual's name and title]

____ for _____ [print name of entity submitting sworn statement]

whose business address is: _____

and (if applicable) its Federal Employer Identification Number (FEIN) is _____. If the entity has no FEIN, include

the Social Security Number of the individual signing this sworn statement: _____

I understand that no person or entity shall be awarded or receive a County contract for public improvements, procurement of goods or services (including professional services) or a County lease, franchise, concession or management agreement, or shall receive a grant of County monies unless such person or entity has submitted a written certification to the County that it has not:

(1) been convicted of bribery or attempting to bribe a public officer or employee of Manatee County, the State of Florida, or any other public entity, including, but not limited to the Government of the United States, any state, or any local government authority in the United States, in that officer's or employee's official capacity; or

(2) been convicted of an agreement or collusion among Bidders or prospective Bidders in restraint of freedom of competition, by agreement to Bid a fixed price, or otherwise; or

(3) been convicted of a violation of an environmental law that, in the sole opinion of the County's Purchasing Director, reflects negatively upon the ability of the person or entity to conduct business in a responsible manner; or

(4) made an admission of guilt of such conduct described in items (1), (2) or (3) above, which is a matter of record, but has not been prosecuted for such conduct, or has made an admission of guilt of such conduct, which is a matter of record, pursuant to formal prosecution. An admission of guilt shall be construed to include a plea of nolo contendere; or

(5) where an officer, official, agent or employee of a business entity has been convicted of or has admitted guilt to any of the crimes set forth above on behalf of such an entity and pursuant to the direction or authorization of an official thereof (including the person committing the offense, if he is an official of the business entity), the business shall be chargeable with the conduct herein above set forth. A business entity shall be chargeable with the conduct of an affiliated entity, whether wholly owned, partially owned, or one which has common Countyship or a common Board of Directors. For purposes of this Form, business entities are affiliated if, directly or indirectly, one business entity controls or has the power to control another business entity, or if an individual or group of individuals controls or has the power to control both entities. Indicia of control shall include, without limitation, interlocking management or ownership, identity of interests among family members, shared organization of a business entity following the ineligibility of a business entity under this Article, or using substantially the same management, ownership or principles as the ineligible entity.

(Cont'd.)

Any person or entity who claims that this Article is inapplicable to him/her/it because a conviction or judgment has been reversed by a court of competent jurisdiction shall prove the same with documentation satisfactory to the County's Purchasing Director. Upon presentation of such satisfactory proof, the person or entity shall be allowed to contract with the County.

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR MANATEE COUNTY IS VALID THROUGH DECEMBER 31 OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT ANY CONTRACT OR BUSINESS TRANSACTION SHALL PROVIDE FOR SUSPENSION OF PAYMENTS, OR TERMINATION, OR BOTH, IF THE CONTRACTING OFFICER OR THE COUNTY ADMINISTRATOR DETERMINES THAT **SUCH PERSON OR ENTITY HAS MADE FALSE CERTIFICATION.**

[Signature]

STATE OF FLORIDA
COUNTY OF _____

Sworn to and subscribed before me this ____ day of _____, 2013 by _____

Personally known _____ OR Produced identification _____
[Type of identification]

Notary Public Signature My commission expires _____

[Print, type or stamp Commissioned name of Notary Public]

Signatory Requirement - In the case of a business entity other than a partnership or a corporation, this affidavit shall be executed by an authorized agent of the entity. In the case of a partnership, this affidavit shall be executed by the general partner(s). In the case of a corporation, this affidavit shall be executed by the corporate president.

Drug Free Work Place Certification

THIS FORM MUST BE SIGNED AND SWORN TO IN THE PRESENCE OF A NOTARY PUBLIC OR OTHER OFFICIAL AUTHORIZED TO ADMINISTER OATHS.

This sworn statement is submitted to the Manatee County Board of County Commissioners by _____
[print individual's name
and title]

_____ for _____
[print name of entity submitting sworn
statement]

whose business address is: _____

and (if applicable) its Federal Employer Identification Number (FEIN) is: _____ (If the entity has no
FEIN,

include the Social Security Number of the individual signing this sworn statement: _____.)

I understand that no person or entity shall be awarded or receive a county contract for public improvements, procurement of goods or services (including professional services) or a county lease, franchise, concession or management agreement, or shall receive a grant of county monies unless such person or entity has submitted a written certification to the County that it will provide a drug free work place by:

(1) providing a written statement to each employee notifying such employee that the unlawful manufacture, distribution, dispensation, possession or use of a controlled substance as defined by § 893.02(4), Florida Statutes, as the same may be amended from time to time, in the person's or entity's work place is prohibited specifying the actions that will be taken against employees for violation of such prohibition. Such written statement shall inform employees about:

- (i) the dangers of drug abuse in the work place;
- (ii) the person's or entity's policy of maintaining a drug free environment at all its work places, including but not limited to all locations where employees perform any task relating to any portion of such contract, business transaction or grant;
- (iii) any available drug counseling, rehabilitation, and employee assistance programs; and
- (iv) the penalties that may be imposed upon employees for drug abuse violations.

(2) Requiring the employee to sign a copy of such written statement to acknowledge his or her receipt of same and advice as to the specifics of such policy. Such person or entity shall retain the statements signed by its employees. Such person or entity shall also post in a prominent place at all of its work places a written statement of its policy containing the foregoing elements (i) through (iv).

(3) Notifying the employee in the statement required by subsection (1) that as a condition of employment the employee will:

- (i) abide by the terms of the statement; and
- (ii) notify the employer of any criminal drug statute conviction for a violation occurring in the work place no later than five (5) days after such a conviction.

(4) Notifying the County within ten (10) days after receiving notice under subsection (3) from an employee or otherwise receiving actual notice of such conviction.

(5) Imposing appropriate personnel action against such employee up to and including termination; or requiring such employee to satisfactorily participate in a drug abuse assistance or rehabilitation program approved for such purposes by a federal, state, or local health, law enforcement, or other appropriate agency.

(6) Making a good faith effort to continue to maintain a drug free work place through implementation of sections (1) through (5) stated above.

I UNDERSTAND THAT THE SUBMISSION OF THIS FORM TO THE CONTRACTING OFFICER FOR MANATEE COUNTY IS VALID THROUGH DECEMBER 31 OF THE CALENDAR YEAR IN WHICH IT IS FILED. I ALSO UNDERSTAND THAT ANY CONTRACT OR BUSINESS TRANSACTION SHALL PROVIDE FOR SUSPENSION OF PAYMENTS, OR TERMINATION, OR BOTH, IF THE CONTRACTING OFFICER OR THE COUNTY ADMINISTRATOR DETERMINES THAT:

- (1) Such person or entity has made false certification.
- (2) Such person or entity violates such certification by failing to carry out the requirements of sections (1), (2), (3), (4), (5), or (6) or subsection 3-101(7)(B); or
- (3) Such a number of employees of such person or entity have been convicted of violations occurring in the work place as to indicate that such person or entity has failed to make a good faith effort to provide a drug free work place as required by subsection 3-101(7)(B).

Signature _____

STATE OF FLORIDA
COUNTY OF _____

Sworn to and subscribed before me this ___ day of _____, 200___ by _____

Personally known _____ OR Produced identification _____
[Type of identification]

Notary Public Signature My commission expires _____

[Print, type or stamp Commissioned name of Notary Public]

Signatory Requirement - In the case of a business entity other than a partnership or a corporation, this affidavit shall be executed by an authorized agent of the entity. In the case of a partnership, this affidavit shall be executed by the general partner(s). In the case of a corporation, this affidavit shall be executed by the corporate president.

Buy America Certification

(Title 49 U.S.C. Section 50101)

IFB #13-1774-OV

PROJECT NAME:	
AIRPORT NAME:	
AIP NUMBER:	

This solicitation and any resulting contract are subject to the Buy America requirements of 49 U.S.C. Section 50101. The bidder certifies it and all associated subcontractors will comply with the Buy American preferences established under Title 49 U.S.C. Section 50101 as follows:

U.S.C. Section 50101 - Buying goods produced in the United States

- (a) Preference. - The Secretary of Transportation may obligate an amount that may be appropriated to carry out section 106(k), 44502(a)(2), or 44509, subchapter I of chapter 471 (except section 47127), or chapter 481 (except sections 48102(e), 48106, 48107, and 48110) of this title for a project only if steel and manufactured goods used in the project are produced in the United States.
- (b) Waiver. - The Secretary may waive subsection (a) of this section if the Secretary finds that -
- (1) Applying subsection (a) would be inconsistent with the public interest;
 - (2) The steel and goods produced in the United States are not produced in a sufficient and reasonably available amount or are not of a satisfactory quality;
 - (3) When procuring a facility or equipment under section 44502(a)(2) or 44509, subchapter I of chapter 471 (except section 47127), or chapter 481 (except sections 48102(e), 48106, 48107, and 48110) of this title -
 - A. The cost of components and subcomponents produced in the United States is more than 60 percent of the cost of all components of the facility or equipment; and
 - B. Final assembly of the facility or equipment has occurred in the United States; or
 - (4) Including domestic material will increase the cost of the overall project by more than 25 percent.
- (c) Labor Costs. - In this section, labor costs involved in final assembly are not included in calculating the cost of components.

* * * * *

Please note that approval of waivers listed under (b) (1) & (2) above, can only be approved by the FAA Office of Airports in Washington DC and approval is rare. Waivers listed under (b) (3) & (4) may be approved by FAA Regional or District Offices. A listing of Equipment and Products that have been approved and on the national waiver list may be located at: http://www.faa.gov/airports/aip/procurement/federal_contract_provisions/media/buy_american_waiver.xls

As a matter of bid responsiveness, the bidder or offeror must complete and submit this certification with their bid proposal. The bidder must sign and date the certification. The bidder/offeror must indicate how they propose to comply with the Buy America provision by selecting one of the following certification statements.

- ☐ The bidder hereby certifies that it will comply with Title 49 U.S.C Section 50101(a) by only installing steel and manufactured products produced in the United States of America. The bidder further agrees that if chosen as the apparent low bid, it will submit documentation to the owner that demonstrate all steel and manufactured products are 100% manufactured in the United States.
- ☐ The bidder hereby certifies that it cannot fully comply with the Buy America preferences of Title 49 U.S.C Section 50101(a); the bidder therefore requests a waiver per Title 49 U.S.C Section 50101(b). The bidder further agrees that upon notification from the Owner, the bidder identified with the apparent low bid agrees to prepare and submit a waiver request and component calculation information to the owner within _____ calendar days of the date of the notice of apparent low bid.

Bidder's Firm Name

Date

Signature

CERTIFICATION OF COMPLIANCE WITH FEDERAL LOBBYING REQUIREMENTS (49 CFR PART 20)

To be submitted with each Bid/Proposal or offer of Bidder/Proposer exceeding \$100,000

The _____ (Bidder/Proposer) certifies to the best of its knowledge and belief that:

1. No federally appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency; a member of Congress, an officer or employee of Congress, an employee of a member of Congress; or any Board member or employee of SRTA in connection with the awarding of any federal contract; any federally funded contract; or the making of any federal grant, the making of any federal loan, the entering into of any cooperative agreement, or the extension, continuation, renewal, amendment or modification of any federal contract, federally funded contract grant, loan or cooperative agreement.
2. If any funds other than federal appropriated funds have been paid or will be paid to any person for making lobbying contacts, or influencing or attempting to influence; an officer or employee of any agency; a member of Congress; an officer or employee of Congress; an employee of a member or Congress or a Board member or employee of SRTA in connection with this federally funded contract, grant, loan, or cooperative agreement, the undersigned shall register and comply with all federal disclosure requirements.
3. The undersigned shall require that the language of this certification be included in the solicitation and award documents for all subawards at all tiers including but not limited to subcontracts, subgrants and contracts under grants, loans and cooperative agreements and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Title 31 USC § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any offeror who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

Executed on _____, 20____, at _____, _____
(Date) (City) (State)

Typewritten or Printed Name	Signature of Authorized Official	Title
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RESTRICTIONS ON LOBBYING

(a) Definitions, as used in this clause:

Agency as defined in Title 5 USC § 552(f), includes federal executive departments and agencies as well as independent regulatory commissions and government corporations, as defined in Title 31 USC § 9101(1).

SRTA means the Southeast Regional Transit Authority.

Covered Federal action means any of the following federal actions:

1. The awarding of any federal contract;
2. The making of any federal grant;
3. The making of any federal loan;
4. The entering into of any cooperative agreement, and
5. The extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan or cooperative agreement.

Covered federal action does not include receiving from an agency a commitment providing for the United States to insure or guarantee a loan.

Indian tribe and **tribal organization** have the meaning provided in section 4 of the Indian Self-Determination and Education Assistance Act Title 25 USC § 450(b). Alaskan Natives are included under the definitions of Indian tribes in that Act.

Influencing or attempting to influence means making, with the intent to influence, any communication to or appearance before an officer or employee of any agency, a member of Congress, an officer or employee of Congress, or an employee of a member of Congress in connection with any covered federal action.

Local government means a unit of government in a state and, if chartered, established, or otherwise recognized by a state for the performance of a governmental duty, including a local public authority, a special district, an intrastate district, a council of governments, a sponsor group representative organization, and any other instrumentality of a local government.

Officer or employee of an agency includes the following individuals who are employed by an agency:

1. An individual who is appointed to a position in the government under Title 5, USC, including a position under a temporary appointment;
2. A member of the uniformed services as defined in Title 37 USC § 101(3);
3. A special government employee as defined in, Title 18 USC § 202; and,
4. An individual who is a member of a federal advisory committee, as defined by the Federal Advisory Committee Act, Title 5 USC Appendix 2.

Person means an individual, corporation, company, association, authority, firm, partnership, society, state, and local government, regardless of whether such entity is operated for profit or not for profit. This term excludes an Indian tribe, tribal organization,

or any other Indian organization with respect to expenditures specifically permitted by other federal law.

Reasonable compensation means, with respect to a regularly employed officer or employee of any person, compensation that is consistent with the normal compensation for such officer or employee for work that is not furnished to, not funded by, or not furnished in cooperation with the federal government.

Reasonable payment means, with respect to professional and other technical services, a payment in an amount that is consistent with the amount normally paid for such services in the private sector.

Recipient includes all contractors and subcontractors at any tier in connection with a federal contract. The term excludes an Indian tribe, tribal organization, or any other Indian organization with respect to expenditures specifically permitted by other federal law.

Regularly employed means, with respect to an officer or employee of a person requesting or receiving a federal contract, an officer or employee who is employed by such person for at least 130 working days within one year immediately preceding the date of the submission that initiates agency consideration of such person for receipt of such contract. An officer or employee who is employed by such person for less than 130 working days within one year immediately preceding the date of the submission that initiates agency consideration of such person shall be considered to be regularly employed as soon as he or she is employed by such person for 130 days.

State means a state of the United States, the District of Columbia, the Commonwealth of Puerto Rico, a territory or possession of the United States, an agency or instrumentality of a state, and a multi-state, regional, or interstate entity having governmental duties and powers.

(b) Prohibition.

(1) Title 31 USC § 1352 provides in part that no appropriated funds may be expended by the recipient of a federal contract, grant, loan, or cooperative agreement to pay any person for influencing or attempting to influence an officer or employee of any agency, a member of Congress, an officer or employee of Congress, or an employee of a member of Congress in connection with any of the following covered federal actions: the awarding of any federal contract, the making of any federal grant, the making of any federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan, or cooperative agreement.

(2) The prohibition does not apply as follows:

(i) Agency and legislative liaison by Own Employees.

(A) The prohibition on the use of appropriated funds, in paragraph (b) (1) of this section, does not apply in the case of a payment of reasonable compensation made to an officer or employee of a person requesting or receiving a federal

contract if the payment is for agency and legislative liaison activities not directly related to a covered federal action.

- (B) For purposes of paragraph (b) (2) (i) (A) of this section, providing any information specifically requested by an agency or Congress is allowable at any time.
 - (C) For purposes of paragraph (b) (2) (i) (A) of this section, the following agency and legislative liaison activities are allowable at anytime only where they are not related to a specific solicitation for any covered federal action:
 - (1) Discussing with an agency (including individual demonstrations) the qualities and characteristics of the persons products or services, conditions or terms of sale, and service capabilities, and
 - (2) Technical discussions and other activities regarding the application or adaptation of the persons products or services for an agency's use.
 - (D) For purposes of paragraph (b) (2) (i) (A) of this section, the following agency and legislative liaison activities are allowable only when they are prior to formal solicitation of any covered federal action:
 - (1) Providing any information not specifically requested but necessary for an agency to make an informed decision about initiation of a covered federal action;
 - (2) Technical discussions regarding the preparation of an unsolicited proposal prior to official submission, and
 - (3) Capability presentations by persons seeking awards from an agency pursuant to the provisions of the Small Business Act, as amended by Public Law 95-507 and other subsequent amendments.
 - (E) Only those activities expressly authorized by paragraph (b) (2) (i) of this section are allowable under paragraph (b) (2) (i).
- (ii) Professional and technical services by Own Employees.
- (A) The prohibition on the use of appropriated funds, in paragraph (b) (1) of this section, does not apply in the case of a payment of reasonable compensation made to an officer or employee of a person requesting or receiving a federal contract or an extension, continuation, renewal, amendment, or modification of a federal contract if payment is for professional or technical services rendered directly in the preparation, submission, or negotiation of any bid, proposal or application for that federal contract or for meeting requirements imposed by or pursuant to law as a condition for receiving that federal contract.
 - (B) For purposes of paragraph (b) (2) (ii) (A) of this section professional and technical services shall be limited to advice and analysis directly applying any professional or technical discipline. For example, drafting of a legal document

accompanying a bid or proposal by a lawyer is allowable. Similarly, technical advice provided by an engineer on the performance or operational capability of a piece of equipment rendered directly in the negotiation of a contract is allowable. However, communications with the intent to influence made by a professional (such as a licensed lawyer) or a technical person (such as a licensed accountant) are not allowable under this section unless they provide advice and analysis directly applying their professional or technical expertise and unless the advice or analysis is rendered directly and solely in the preparation, submission or negotiation of a covered federal action. Thus, for example, communications with the intent to influence made by a lawyer that do not provide legal advice or analysis directly and solely related to the legal aspects of his or her clients proposal, but generally advocate one proposal over another are not allowable under this section because the lawyer is not providing professional legal services. Similarly, communications with the intent to influence made by an engineer providing an engineering analysis prior to the preparation or submission of a bid or proposal are not allowable under this section since the engineer is providing technical services but not directly in the preparation, submission or negotiation of a covered federal action.

(C) Requirements imposed by or pursuant to law as a condition for receiving a covered federal award include those required by law or regulation, or reasonably expected to be required by law or regulation, and any other requirements in the actual award documents.

(D) Only those services expressly authorized by paragraph (b) (2) (ii) of this section are allowable under paragraph (b) (2) (ii).

(iii) Reporting for Own Employees.

No reporting is required with respect to payments of reasonable compensation made to regularly employed officers or employees of a person.

(iv) Professional and technical services by Other than Own Employees.

(A) The prohibition on the use of appropriated funds, in paragraph (b) (1) of this section, does not apply in the case of any reasonable payment to a person, other than an officer or employee of a person requesting or receiving a covered federal action, if payment is for professional or technical services rendered directly in the preparation, submission, or negotiation of any bid, proposal, or application for that federal contract or for meeting requirements imposed by or pursuant to law as a condition for receiving that federal contract.

(B) For purposes of paragraph (b) (2) (iv) (A) of this section professional and technical services shall be limited to advice and analysis directly applying any professional or technical discipline. For example, drafting of a legal document accompanying a bid or proposal by a lawyer is allowable. Similarly, technical advice provided by an engineer on the performance or operational capability of a piece of equipment rendered directly in the negotiation of a contract is allowable. However, communications with the intent to influence made by a

professional (such as a licensed lawyer) or a technical person (such as a licensed accountant) are not allowable under this section unless they provide advice and analysis directly applying their professional or technical expertise and unless the advice or analysis is rendered directly and solely in the preparation, submission or negotiation of a covered federal action. Thus, for example, communications with the intent to influence made by a lawyer that do not provide legal advice or analysis directly and solely related to the legal aspects of his or her client's proposal, but generally advocate one proposal over another are not allowable under this section because the lawyer is not providing professional legal services. Similarly, communications with the intent to influence made by an engineer providing an engineering analysis prior to the preparation or submission of a bid or proposal are not allowable under this section since the engineer is providing technical services but not directly in the preparation, submission or negotiation of a covered federal action.

- (C) Requirements imposed by or pursuant to law as a condition for receiving a covered federal award include those required by law or regulation, or reasonably expected to be required by law or regulation, and any other requirements in the actual award documents.
- (D) Persons other than officers or employees of a person requesting or receiving a covered federal action include consultants and trade associations.
- (E) Only those services expressly authorized by paragraph (b) (2) (iv) of this section are allowable under paragraph (b) (2) (iv).

(c) Disclosure.

- (1) Each person who requests or receives from SRTA a contract with federal assistance shall file with SRTA a certification, set forth in Bid/Submittal Form entitled **FEDERAL LOBBYING CERTIFICATION**, that the person has not made, and will not make, any payment prohibited by paragraph (b) of this clause.
- (2) Each person who requests or receives from SRTA a contract with federal assistance shall file with SRTA a disclosure form, Standard Form-LLL, Disclosure of Lobbying Activities, if such person has made or has agreed to make any payment using nonappropriated funds (to include profits from any covered federal action), which would be prohibited under paragraph (b) of this clause if paid for with appropriated funds.
- (3) Each person shall file a disclosure form at the end of each calendar quarter in which there occurs any event that requires disclosure or that materially affects the accuracy of the information contained in any disclosure form previously filed by such person under paragraph (c) (2) of this section. An event that materially affects the accuracy of the information reported includes:
 - (i) A cumulative increase of \$25,000 or more in the amount paid or expected to be paid for influencing or attempting to influence a covered federal action; or

- (ii) A change in the person(s) or individual(s) influencing or attempting to influence a covered federal action; or,
 - (iii) A change in the officer(s), employee(s), or member(s) contacted to influence or attempt to influence a covered federal action.
- (4) Any person who requests or receives from a person referred to in paragraph (c) (1) of this section a subcontract with a contract value exceeding \$100,000 at any tier under a contract with federal assistance shall file a certification, and a disclosure form, if required, to the next tier above. All disclosure forms shall be forwarded from tier to tier until received by the Prime Contractor who will forward it to SRTA.

EXHIBIT 1

CERTIFICATION OF RESTRICTIONS ON LOBBYING

I, _____, hereby certify on behalf of
(Name and title of contracting or sub-contracting official)

_____ that:
(Name of contractor or subcontractor)

- (1) No federally appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any agency, a member of Congress, an officer or employee of Congress, or an employee of a member of Congress in connection with the awarding of any federal contract, the making of any federal grant, the making of any federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any federal contract, grant, loan, or cooperative agreement.
- (2) If any funds other than federally appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a member of Congress, an officer or employee of Congress, or an employee of a member of Congress in connection with this federal contract, grant, loan, or cooperative agreement the undersigned shall complete and submit Standard Form-LLL, Disclosure Form to Report Lobbying, in accordance with its instructions.
- (3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance is placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by Title 31 USC § 1352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

Executed this _____ day of _____, 20_____.

By: _____
(Signature of Authorized Official)

(Typewritten or Printed Name)

(Title of Authorized Official)

EXHIBIT 2

DISCLOSURE OF LOBBYING ACTIVITIES INSTRUCTIONS FOR COMPLETION OF SF-LLL

This disclosure form shall be completed by the reporting entity, whether subawardee or prime federal recipient, at the initiation of receipt of a covered federal action, or a material change to a previous filing, pursuant to Title 31 USC § 1352. The filing of a form is required for each payment or agreement to make payment to any lobbying entity for influencing or attempting to influence an officer or employee of any agency, a member of Congress, an officer or employee of Congress, or an employee of a member of Congress, in connection with a covered federal action. Use the SF-LLL-A Continuation Sheet for additional information if the space on the form is inadequate. Complete all items that apply for both the initial filing and material change report. Refer to the implementing guidance published by the Office of Management and Budget for additional information.

1. Identify the type of covered federal action for which lobbying activity is and/or has been secured to influence the outcome of a covered federal action.
2. Identify the status of the covered federal action.
3. Identify the appropriate classification of this report. If this is a follow-up report caused by a material change to the information previously reported, enter the year and quarter in which the change occurred. Enter the date of the last previously submitted report by this reporting entity for this covered federal action.
4. Enter the full name, address, city, state and zip code of the reporting entity. Include Congressional District, if known. Check the appropriate classification of the reporting entity that designates if it is, or expects to be, a prime or subaward recipient. Identify the tier of the subawardee, e.g., the first subawardee of the prime if the first tier. Subawards include but are not limited to subcontracts, subgrants and contract awards under grants.
5. If the organization filing the report in item 4 checks Subawardee, then enter the full name, address, city, state and zip code of the prime federal recipient. Include the Congressional District, if known.
6. Enter the name of the federal agency making the award or loan commitment. Include at least one organizational level below agency name, if known. For example, Department of Transportation, United States Coast Guard.
7. Enter the federal program, name or description for the covered federal action (item 1). If known, enter the full Catalog of Federal Domestic Assistance (CFDA) number for grants, cooperative agreements, loans, and loan commitments.
8. Enter the most appropriate federal identifying number available for the federal action identified in item 1 (e.g. Request for Proposal (RFP) number, Invitation for Bid (IFB) number; grant announcement number; the contract, grant, or loan award number; the application/proposal control number assigned by the federal agency). Include prefixes, e.g., RFP-DE-90-001.
9. For a covered federal action where there has been an award or loan commitment by the federal agency, enter the federal amount of the award/loan commitment for the prime entity identified in item 4 or 5.
10. (a) Enter the full name, address, city, state and zip code of the lobbying entity engaged by the reporting entity identified in item 4 to influence the covered federal action.
(b) Enter the full names of the individual(s) performing services, and include full address if different from 10 (a). Enter Last Name, First Name, and Middle Initial (MI).
11. Enter the amount of compensation paid or reasonably expected to be paid by the reporting entity (item 4) to the lobbying entity (Item 10). Indicate whether the payment has been made (actual) or will be made (planned). Check all boxes that apply. If this is a material change report, enter the cumulative amount of payment made or planned to be made.
12. Check the appropriate box(es). Check all boxes that apply. If payment is made through an in-kind contribution, specify the nature and value of the in-kind payment.
13. Check the appropriate box (es). Check all boxes that apply. If other, specify nature.
14. Provide a specific and detailed description of the services that the lobbyist has performed, or will be expected to perform, and the dates of any services rendered. Include all preparatory and related activity, not just time spent in actual contact with federal officials. Identify the federal official(s) or employee(s) contacted or the officer(s), employee(s), or member(s) of Congress that were contacted.
15. Check whether or not a SF-LLL-A Continuation Sheet(s) is attached.
16. The certifying official shall sign and date the form, print his/her name, title, and telephone number.

Public reporting burden for this collection of information is estimated to average 30 minutes per response, including time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. Send comments regarding the burden estimate or any other aspect of this collection of information, including suggestions for reducing this burden, to the Office of Management and Budget, Paperwork Reduction Project (03-46-00046). Washington, D.C. 20503.

DISCLOSURE OF LOBBYING ACTIVITIES Complete this
form to disclose lobbying activities pursuant to Title 31 USC § 1352 (See reverse
for public burden disclosure.)

1. Type of Federal Action: a. contract b. grant c. cooperative agreement d. loan e. loan guarantee f. loan insurance	2. Status of Federal Action: a. bid/offer/application b. initial award c. post award	3. Status of Federal Action: a. initial change b. material change For Material Change Only: year _____ quarter _____ date of last report _____
4. Name and Address of Reporting Entity Prime _____ Subawardee _____ Tier _____, if known: Congressional District, if known: _____		5. If Reporting Entity in No. 4 is subawardee. Enter name and Address of Prime: Congressional District, if known: _____
6. Federal Department/Agency: Department of Transportation Federal Transit Administration	7. Federal Program Name/Description: CFDA Number, if applicable: _____	
8. Federal Action Number, if known:	9. Award Amount, if known: \$ _____	
10. a. Name and Address of Lobbying Entity (if individual, last name, first name, MI): attach continuation sheet(s) SF-LLL-A if necessary	b. Individuals Performing Services (including address if different from No. 10.a) (last name, first name, MI): attach continuation sheet(s) SF-LLL-A if necessary	
11. Amount of Payment (check all that apply): \$ _____ actual _____ planned _____		
12. Form of Payment (check all that apply): a. cash b. in-kind; specify: nature _____ value _____	13. Type of Payment (check all that apply): a. retainer b. one-time fee c. commission d. contingent fee e. deferred f. other; specify _____	
14. Brief Description of Services Performed or to be Performed and Date(s) of Service, including officer(s), employer(s), or member(s) contacted, for Payment indicated in Item 11:		
15. Continuation Sheet(s) SF-LLL-A attached: Yes _____ No _____		
16. Information requested through this form is authorized by Title 31 USC § 1352. This disclosure of lobbying activities is a material representation of fact upon which reliance was placed by the tier above when this transaction was made or entered into. This information will be reported to the Congress semi-annually and will be available for public inspection. Any person who fails to file the required disclosure shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.		
Signature: _____ Print Name: _____ Title: _____ Telephone No.: _____ Date: _____		
Federal Use Only: _____ Authorized for Local Reproduction Standard Form - LLL		

DISCLOSURE OF LOBBYING ACTIVITIES
CONTINUATION SHEET

Reporting **Entity** : ----- Page _____ of _____

Authorized for Local Reproduction Standard Form LLL-A

METRO ARCHIVE#
TBD (IFBIRFP NO.)
ISSUED: 00/00/00

11

FEDERAL LOBBYING RESTRICTIONS
PRO FORM 025
REVISION DATE: 07.01.09

00491-16

**CERTIFICATION REGARDING DEBARMENT, SUSPENSION, AND OTHER
RESPONSIBILITY MATTERS--PRIMARY COVERED TRANSACTIONS**

Instructions For Certification

1. By signing and submitting this proposal, the prospective primary participant is providing the certification set out below.
2. The inability of a person to provide the certification required below will not necessarily result in denial of participation in this covered transaction. The prospective participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or County's determination whether to enter into this transaction. However, failure of the prospective primary participant to furnish a certification or an explanation shall disqualify such person from participation in this transaction.
3. The certification in this clause is a material representation of fact upon which reliance was placed when the department or County determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or County may terminate this transaction for cause or default.
4. The prospective primary participant shall provide immediate written notice to the department or County to which this proposal is submitted if at any time the prospective primary participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.
5. The terms covered transaction, debarred, suspended, ineligible, lower tier covered transaction, participant, person, primary covered transaction, principal, proposal, and voluntarily excluded, as used in this clause, have the meanings set out in the Definitions and Coverage sections of the rules implementing Executive Order 12549. You may contact the department or County to which this proposal is being submitted for assistance in obtaining a copy of those regulations.
6. The prospective primary participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is proposed for debarment under 48 CFR part 9, subpart 9.4, debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or County entering into this transaction.
7. The prospective primary participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension,

Ineligibility and Voluntary Exclusion- Lower Tier Covered Transaction," provided by the department or County entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

8. A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that it is not proposed for debarment under 48 CFR part 9, subpart 9.4, debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the List of Parties Excluded from Federal Procurement and Nonprocurement Programs.

9. Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render in good faith the certification required by this clause. The knowledge and information of a participant is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

10. Except for transactions authorized under paragraph 6 of these instructions, if a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is proposed for debarment under 48 CFR part 9, subpart 9.4, suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or County may terminate this transaction for cause or default.

CERTIFICATION REGARDING DEBARMENT, SUSPENSION, AND OTHER RESPONSIBILITY MATTERS--PRIMARY COVERED TRANSACTIONS

(1) The prospective primary participant certifies to the best of its knowledge and belief, that it and its principals:

(a) Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded by any Federal department or County;

(b) Have not within a three-year period preceding this proposal 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 or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statements, or receiving stolen property;

(c) Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses

enumerated in paragraph (1)(b) of this certification;

(d) Have not within a three-year period preceding this application/proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

(2) Where the prospective primary participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

Signature/Authorized Certifying Official Typed Name and Title

Applicant/Organization

Date Signed

DBE GOOD FAITH EFFORTS DOCUMENTATION FORM

DBE GOAL: _____%

If Bidder has indicated on the DBE Participation Form, that it does not meet the DBE goal, Bidder must submit this form with its DBE Participation Form as documentation of its good faith efforts to meet the goal. Failure to submit this form with its bid, may render this bid non-responsive. Manatee County may require that Bidder provide additional substantiation of good faith efforts.

	<u>Date</u>	<u>Company and Contact Person</u>	<u>Area of Expertise</u>
1)	_____		_____
	_____		<u>Response</u>
	<u>Date</u>	<u>Company and Contact Person</u>	<u>Area of Expertise</u>
2)	_____		_____
	_____		<u>Response</u>
	<u>Date</u>	<u>Company and Contact Person</u>	<u>Area of Expertise</u>
3)	_____		_____
	_____		<u>Response</u>
	<u>Date</u>	<u>Company and Contact Person</u>	<u>Area of Expertise</u>
4)	_____		_____
	_____		<u>Response</u>
	<u>Date</u>	<u>Company and Contact Person</u>	<u>Area of Expertise</u>
5)	_____		_____
	_____		<u>Response</u>
	<u>Date</u>	<u>Company and Contact Person</u>	<u>Area of Expertise</u>
6)	_____		_____
	_____		<u>Response</u>

IFB #13-1774-OV
DBE PARTICIPATION FORM

Manatee County has not set a specific goal for this project.

Bidder must check the appropriate box, provide the information requested, sign and submit this form with its proposal. Failure to complete and submit this form may result in rejection of the proposal as non-responsive.

- [] Bidder will meet the DBE goal for this contract. Proposer is certified according to requirements of DOT 49 C.F.R. Part 26 as a DBE eligible for participation in DOT assisted contracts, and will be performing _____ percent (____%) of the contract work.
- [] Bidder will meet the DBE goal for this contract. If awarded this contract, Bidder will subcontract with the DBE(s) listed below which will be performing a total of _____ percent (____%) of the total dollar amount of contract work. Each DBE listed below is certified according to requirements of DOT 49 C.F.R. Part 26 for participation in DOT assisted contracts.

<u>DBE Name and Address</u>	<u>Description of Work</u>	<u>Percent of Dollar Amount of Total Contract Work</u>

(attach additional sheets)		

- [] Bidder does not meet the DBE goal for this contract. Bidder certifies that it has made good faith efforts in accordance with the Invitation for Bid to meet the DBE goal, but despite those efforts, has been unable to meet the goal. The Good Faith Efforts Documentation Form is attached to this Participation Form.

Date: _____

Signature: _____

Name (print): _____

Title: _____

SECTION 00700
GENERAL CONDITIONS

ARTICLE I - DEFINITIONS

Whenever used in the Bid Documents, the following terms have the meaning indicated which are applicable to both the singular and plural thereof:

Addendum - Written or graphic instruments issued prior to the opening of bids which clarify or change the bidding documents or the contract documents.

Agreement - The written Agreement between Owner and Contractor covering the Work to be performed; other contract documents are attached to the Agreement and made a part thereof as provided therein.

Application for Payment - The form accepted by the Project Representative which is to be used by Contractor in requesting progress or final payments and which is to include such supporting documentation as is required by the contract documents.

Award - Acceptance of the bid from the person, firm, or corporation which in the Owner's sole and absolute judgment will under all circumstances best serve the public interest. Award shall be made in accordance with Manatee County Code of Laws.

Bid - The offer of the Bidder submitted on the prescribed form setting forth the prices for the Work to be performed.

Bidder - One who submits a bid directly to the Owner, as distinct from a sub-bidder, who submits a bid to a Bidder.

Bidding Documents - Consists of the Invitation for Bid, which includes but is not limited to: the bid form, drawings, technical specifications, terms and conditions, and the proposed contract documents (including all Addenda issued prior to receipt of bids); and becomes a part of the Agreement.

Bonds - Performance and payment bonds and other instruments of security.

Change Order - A document recommended by the Project Representative which is signed by Contractor and Owner and authorizes an addition, deletion, or revision in the Work or an adjustment in the contract price or the contract time, issued on or after the effective date of the Agreement.

Compensable Delay - Any delay beyond the control and without the fault or negligence of the Contractor resulting from Owner-caused changes in the Work, differing site conditions, suspensions of the Work, or termination for convenience by Owner.

Contract Documents - The Agreement, Addenda (which pertain to the contract documents), Contractor's bid (including documentation accompanying the bid and any

post-bid documentation submitted prior to the Notice of Award), the bonds, the specifications, Special Provisions and the drawings, together with all amendments, modifications and supplements issued on or after the effective date of the Agreement.

Contract Price - The monies payable by Owner to Contractor under the contract documents as stated in the Agreement.

Contract Time - The number of days or the date stated in the Notice to Proceed for the completion of the Work.

Contractor - The person, firm or corporation with whom Owner has entered into an Agreement.

Days - All references to days are to be considered calendar days except as specified differently.

Defective - An adjective which when modifying the work refers to work that is unsatisfactory, faulty or deficient, or does not conform to the contract documents, or does not meet the requirements of any inspection, reference standard, test or approval referred to in the contract documents, or has been damaged prior to Project Representative's recommendation of final payment (unless responsibility for the protection thereof has been assumed by Owner).

Discretionary - Payment for all work that shall be made only at the Owner's discretion in order to satisfactorily complete the project in accordance with the Plans and Specifications.

Drawings - The drawings which show the character and scope of the Work to be performed and which have been prepared or approved by Engineer and are referred to in the bidding and contract documents.

Effective Date of the Agreement - The date indicated in the Agreement on which it becomes effective (date of execution).

Excusable Delay - Any delay beyond the control and without the negligence of the Contractor, the Owner, or any other contractor caused by events or circumstances such as, but not limited to, acts of God or of the public enemy, fires, floods, freight embargoes, acts of government other than Owner or epidemics. Labor disputes and above average rainfall shall give rise only to excusable delays.

Field Order - A written order issued by Project Representative which orders minor changes in the Work, but which does not involve a change in the contract price or the contract time.

Float or Slack Time - The time available in the progress schedule during which an unexpected activity can be completed without delaying substantial completion of the Work.

Inexcusable Delay - Any delay caused by events or circumstances within the control of the Contractor, such as inadequate crewing, slow submittals, etc., which might have

been avoided by the exercise of care, prudence, foresight, or diligence on the part of the Contractor.

Non-prejudicial Delay - Any delay impacting a portion of the Work within the available total float or slack time and not necessarily preventing completion of the Work within the contract time.

Notice of Award - The written notice to the successful bidder stating Award has been approved by the Board of County Commissioners; or by the Purchasing Official in accordance with Manatee County Purchasing Code of Law, Chapter 2-26, Manatee County Purchasing Ordinance.

Notice of Intent to Award - The written notice to the apparent low bidder stating Award has been recommended with final Award to be authorized by the Board of County Commissioners.

Notice to Proceed - Written notice by Owner (after execution of contract) to Contractor fixing the date on which the contract time will commence to run and on which Contractor shall start to perform (ten (10) days from date of such notice) Contractor's obligations under the contract documents.

Owner - Manatee County, Florida, Board of County Commissioners.

Preconstruction Conference - Prior to starting the Work, a meeting scheduled by Owner with Contractor to review the Work schedules, to establish procedures for handling shop drawings and other submissions, for processing periodical pay estimates, and such other matters as may be pertinent to the project.

Prejudicial Delay - Any excusable or compensable delay impacting the Work and exceeding the total float available in the progress schedule, thus preventing completion of the Work within the contract time unless the Work is accelerated.

Pre-operation Testing - All field inspections, installation checks, water tests, performance tests and necessary corrections required of Contractor to demonstrate that individual components of the work have been properly constructed and do operate in accordance with the contract documents for their intended purposes.

Project - The total construction of which the Work to be provided under the contract documents may be the whole or a part as indicated elsewhere in the contract documents.

Project Representative - The authorized representative of Owner who is assigned to the project or any part thereof.

Schedule of Values - Unit Prices shall be established for this contract by the submission of a schedule of values. The Contractor shall submit a Schedule of Values within ten days of Notice to Proceed date. The Schedule shall include quantities and prices of items equaling the Total Bid Price and will subdivide the Work into components in sufficient detail to serve as the basis for progress payments during

construction. Such prices will include an appropriate amount of overhead and profit applicable to each item of Work. Upon request of the County, the Contractor shall support the values with data which will substantiate their correctness.

Shop Drawings - All drawings, diagrams, illustrations, schedules and other data which are specifically prepared by or for Contractor to illustrate some portion of the Work and all illustrations, brochures, standard schedules, performance charts, instructions, diagrams and other information prepared by a supplier and submitted by Contractor to illustrate material or equipment for some portion of the Work.

Special Provisions: As required to define work or procedures not covered in the standard specifications, and as necessary to supplement or modify items in the standard specifications.

Specifications - Those portions of the contract documents consisting of written technical descriptions of materials, equipment, construction systems, standards and workmanship as applied to the Work and certain administrative details applicable thereto.

Subcontractor - An individual or corporation having a direct contact with Contractor or with any other subcontractor for the performance of a part of the Work at the site. Such person or firm has contractual relations with the Contractor, not with the Owner.

Substantial Completion - The Work (or a specified part thereof) has progressed to the point when, in the opinion of the Engineer as evidenced by Engineer's definitive certificate of Substantial Completion, it is sufficiently complete in accordance with contract documents so that the work can be utilized for the purposes for which it is intended; or if there be no such certificate issued, when final payment is due.

Successful Bidder - The lowest qualified, responsible and responsive bidder to whom an award is made.

Supplier - A manufacturer, fabricator, supplier, distributor, materialman or vendor.

Underground Facilities - All pipelines, conduits, ducts, cables, wires, manholes, vaults, tanks, tunnels or other such facilities or attachments and any encasement containing such facilities which have been installed underground to furnish any of the following services or materials: electricity, gases, steam, liquid petroleum products, telephone or other communications, cable television, sewage and drainage removal, traffic or other control systems or water.

Unit Price Work - Work to be paid for on the basis of unit prices.

Work - The entire completed construction or the various separately identifiable parts thereof required to be furnished under the contract documents. Work is the result of performing services, furnishing labor and furnishing and incorporating materials and equipment into the construction, all as required by the contract documents.

Work Directive Change - A written directive to contractor issued on or after the effective date of the Agreement and signed by Owner and recommended by Project

Representative ordering an addition, deletion or revision in the Work, or responding to differing or unforeseen physical conditions under which the Work is to be performed or to emergencies. A work directive change may not change the contract price or the

contract time; but is evidence that the parties expect that the change directed or documented by a work directive change will be incorporated in a subsequently issued change order following negotiations by the parties as to its effect, if any, on the contract price or contract time.

Written Amendment - A written amendment of the contract documents, signed by Owner and Contractor on or after the effective date of the Agreement and normally dealing with the non-engineering or non-technical rather than strictly work related aspects of the contract documents.

ARTICLE 2 - PRELIMINARY MATTERS

Computation of Time: When time is referred to in the contract documents by days, it will be computed to exclude the first and include the last day of such period. If the last day of any such period falls on a Saturday or Sunday or legal holiday, such day will be omitted from the computation.

- 2.1 The Contractor must submit a proposed schedule of the Work at the preconstruction conference. The purpose of this schedule is to enable the Owner to govern the Work, to protect the functions of the local government and its citizens and to aid in providing appropriate surveillance. The Owner shall have the right to reschedule work provided such rescheduling is in accord with the remainder of terms of the contract. The schedule shall show, as a minimum, the approximate dates on which each segment of the work is expected to be started and finished, the proposed traffic flows during each month, the anticipated earnings by the Contractor for each month and the approximate number of crews and equipment to be used. The Owner, after necessary rescheduling and obtaining additional information for specific purposes, shall review and approve the schedule. The Contractor shall also forward to the Owner, as soon as practicable after the first day of each month, a summary report of the progress of the various parts of the work under the contract, in fabrication and in the field, stating the existing status, estimated time of completion and cause of delay, if any. Together with the summary report, the Contractor shall submit any necessary revisions to the original schedule for the Owner's review and approval. In addition, more detailed schedules may be required by the Owner for daily traffic control.
- 2.2 A Notice to Proceed may be given at any time within thirty (30) days after the effective date of the Agreement. The contract time will commence at the time specified in such notice. Contractor shall start to perform the Work on the date specified in the notice to proceed, but no work shall be done at the site prior to the date on which the contract time commences to run.

- 2.3 If at any time the materials and appliances to be used appear to the Owner as insufficient or improper for securing the quality of work required or the required rate of progress, the Owner may order the Contractor to increase his efficiency or to improve the character of his work and the Contractor shall conform to such an order. The failure of the Owner to demand any increase of such efficiency of any improvement shall not release the Owner from his obligation to secure the quality of work or the rate of progress necessary to complete the Work within the limits imposed by the contract. The Owner may require the Contractor to remove from the Work such employees as the Owner deems incompetent, careless, insubordinate or otherwise objectionable, or whose continued employment on the Work is deemed to be contrary to the Owner's interest.
- 2.4 The Owner reserves the right to let other Contracts in connection with this Work. The Contractor shall afford other Contractors reasonable opportunity for the introduction and storage of their materials and execution of their Work, and promptly connect and coordinate the Work with theirs.

ARTICLE 3 - CONTRACT DOCUMENTS: INTENT, AMENDING, RE-USE

- 3.1 The contract documents comprise the entire Agreement between Owner and Contractor concerning the work. The contract documents are complementary; what is called for by one is as binding as if called for by all. The contract documents will be construed in accordance with the laws and ordinances of the State of Florida and Manatee County.

Should a conflict exist within the contract documents, the precedence in ascending order of authority are as follows: 1) Standard Printed Contract Documents, 2) Special Conditions, 3) General Conditions, and 4) Drawings.

Note: Computed dimensions shall govern over scaled dimensions.

- 3.2 It is the intent of the contract documents to describe a functionally complete project (or part thereof) to be constructed in accordance with the contract documents. Any work, materials or equipment that may reasonably be inferred from the contract documents as being required to produce the intended result will be supplied whether or not specifically called for. When words which have a well-known technical or trade meaning are used to describe work, materials, or equipment, such words shall be interpreted in accordance with that meaning. Reference to standard specifications, manuals or codes of any technical society, organization or association, or to the laws or regulations of any governmental authority, whether such reference be specific or by implication, shall mean the latest standard specification, manual, code or laws or regulations in effect at the time of opening of bids, except as may be otherwise specifically stated. However, no provision of any referenced standard specification, manual or code (whether or not specifically incorporated by reference in the contract documents) shall be effective to change the duties and responsibilities of Owner, Contractor or Engineer, or any of their agents or employees from those set forth in the Contract Documents.
- 3.3 The contract documents may be amended to provide for additions, deletions and revisions in the Work or to modify the terms and conditions thereof in one or more of the following ways:

- 3.3.1 A Formal Written Amendment
- 3.3.2 A Change Order
- 3.3.3 Administrative Contract Adjustment (ACA)
- 3.3.4 A Work Directive Change
- 3.4 In addition, the requirements of the contract documents may be supplemented and minor variations and deviations in the Work may be authorized in one or more of the following ways:
 - 3.4.1 Discretionary Work – Field Directive
 - 3.4.2 Engineer's approval of a Shop Drawing or sample

ARTICLE 4 - CONTRACTOR'S RESPONSIBILITIES

- 4.1 Contractor shall keep on the Work at all times during its progress a competent resident superintendent; who shall be the Contractor's representative at the site and shall have authority to act on behalf of Contractor. All communications given to the superintendent shall be as binding as if given to Contractor.
- 4.2 Contractor shall provide competent, suitable qualified personnel to survey and lay out the Work and perform construction as required by the contract documents. Contractor shall at all times maintain good discipline and order at the site. Except in connection with the safety or protection of persons or the Work or property at the site or adjacent thereto and except as otherwise indicated in the contract documents, all Work at the site shall be performed during regular working hours and Contractor will not permit overtime work or the performance of work on Saturday, Sunday or legal holiday without Owner's written consent given after prior notice to Engineer (at least 72 hours in advance).
 - 4.2.1 Contractor shall pay for all additional engineering charges to the Owner for any overtime work which may be authorized. Such additional engineering charges shall be a subsidiary obligation of Contractor and no extra payment shall be made by Owner on account of such overtime work. At Owner's option, overtime costs may be deducted from Contractor's monthly payment request or Contractor's retainage prior to release of final payment.

- 4.3 Unless otherwise specified, Contractor shall furnish and assume full responsibility for all bonds, insurance, materials, equipment, labor, transportation, construction equipment and machinery, tools, appliances, fuel, power, light, heat, telephone, water, sanitary facilities, temporary facilities and all other facilities and incidentals necessary for the furnishing, performance, testing, start-up and completion of the Work.
- 4.4 All materials and equipment shall be of good quality and new, except as otherwise provided in the contract documents. If required by Engineer, Contractor shall furnish satisfactory evidence (including reports of required tests) as to the kind and quality of materials and equipment. All materials and equipment shall be applied, installed, connected, erected, used, cleaned and conditioned in accordance with the instruction of the applicable supplier except as otherwise provided in the contract documents.
- 4.5 Contractor shall be fully responsible to Owner for all acts and omissions of the subcontractors, suppliers and other persons and organizations performing or furnishing any of the Work under a direct or indirect contract with Contractor just as Contractor is responsible for Contractor's own acts and omissions. Nothing in the Contract Documents shall create any contractual relationship between Owner or Engineer and any such subcontractor, supplier or other person or organization, nor shall it create any obligation on the part of Owner to pay or to see to the payment of any monies due any such subcontractor, supplier or other person or organization.
- 4.6 Permits: Unless otherwise provided, Contractor shall obtain and pay for all construction permits and licenses. Owner shall assist Contractor, when necessary, in obtaining such permits and licenses. Contractor shall pay all governmental charges and inspection fees necessary for the prosecution of the Work.
- 4.7 During the progress of the Work, Contractor shall keep the premises free from accumulation of waste materials rubbish and other debris resulting from the Work. At the completion of the Work, Contractor shall remove all waste materials, rubbish and debris from and about the premises as well as all tools, appliances, construction equipment and machinery and surplus materials and shall leave the site clean and ready for occupancy by Owner. Contractor shall restore to original conditions all property not designated for alteration by the Contract Documents.
- 4.8 Contractor shall not load nor permit any part of any structure to be loaded in any manner that will endanger the structure, nor shall Contractor subject any part of the Work or adjacent property to stresses or pressures that will endanger it.
- 4.9 Safety and Protection: Contractor shall comply with the Florida Department of Commerce Safety Regulations and any local safety regulations. Contractor shall be responsible for initiating, maintaining and supervising all safety precautions and programs in connection with the Work. Contractor shall take all necessary precautions for the safety of and shall provide the necessary protection to prevent damage, injury or loss to:

- 4.9.1 all employees on the work and other persons and organizations who may be affected thereby;
- 4.9.2 all the work and materials and equipment to be incorporated therein, whether in storage on or off the site; and
- 4.9.3 other property at the site or adjacent thereto, including trees, shrubs, lawns, walks, pavements, roadways, structures, utilities and underground facilities not designated for removal, relocation or replacement in the course of construction.

Contractor shall comply with all applicable laws and regulations of any public body having jurisdiction for the safety of persons or property or to protect them from damage, injury or loss; and shall erect and maintain all necessary safeguards for such safety and protection. Contractor shall provide and maintain all passageways, guard fences, lights and other facilities for the protection required by public authority or local conditions. Contractor shall provide reasonable maintenance of traffic way for the public and preservation of the Owner's business, taking into full consideration all local conditions. Contractor's duties and responsibilities for the safety and protection of the work shall continue until such time as all the work is completed.

- 4.10 Emergencies: In emergencies affecting the safety or protection of persons or the work or property at the site or adjacent thereto, Contractor, without special instruction or authorization from Engineer or Owner, is obligated to act to prevent threatened damage, injury or loss. Contractor shall give Owner prompt written notice if Contractor believes that any significant changes in the work or variations from the contract documents have been caused thereby. If Owner determines that a change in the contract documents is required because of the action taken in response to an emergency, a Work Directive Change or Change Order will be issued to document the consequences of the changes or variation.
- 4.11 For substitutes not included with the bid, but submitted after the effective date of the Agreement, Contractor shall make written application to Engineer for acceptance thereof, certifying that the proposed substitute will perform adequately the functions and achieve the results called for by the general design, be similar and of equal substance to that specified and be suited to the same use as that specified. The application will also contain an itemized estimate of all costs and delays or schedule impacts that will result directly or indirectly from review, acceptance and provisions of such substitute, including costs of redesign and claims of other contractors affected by the resulting change, all of which will be considered by the Engineer in evaluating the proposed substitute. Engineer may require Contractor to furnish at Contractor's expense, additional data about the proposed substitute. In rendering a decision, Owner/Engineer and Contractor shall have access to any available float time in the construction schedule. In the event that substitute materials or equipment not included as part of the bid, but proposed after the effective date of the agreement, are accepted and are less costly than the originally specified materials or equipment, then the net difference in cost shall be credited to the Owner and an appropriate change order executed.

4.11.1 If a specific means, method, technique, sequence of procedure of construction is indicated in or required by the contract documents, Contractor may furnish or utilize a substitute means, method, sequence, technique or procedure of construction acceptable to Engineer if Contractor submits sufficient information to allow Engineer to determine that the substitute proposed is equivalent to that indicated or required by the contract documents.

4.11.2 Engineer will be allowed a reasonable time within which to evaluate each proposed substitute. Engineer will be the sole judge of acceptability and no substitute will be ordered, installed or utilized without Engineer's prior written acceptance which will be evidenced by either a change order or an approved shop drawing. Owner may require Contractor to furnish at Contractor's expense a special performance guarantee or other surety with respect to any substitute.

4.11.3 Contractor shall reimburse Owner for the charges of Engineer and Engineer's Consultants for evaluating each proposed substitute submitted after the effective date of the Agreement and all costs resulting from any delays in the work while the substitute was undergoing review.

4.12 The Contractor shall furnish, free of charge, all labor, stakes, surveys, batter boards for structures, grade lines and other materials and supplies and shall set construction stakes and batter boards for establishing lines, position of structures, slopes and other controlling points necessary for the proper prosecution of the construction work. Where rights-of-way, easements, property lines or any other conditions which make the lay-out of the project or parts of the project critical are involved, the Contractor will employ a competent surveyor who is registered in the State of Florida for lay-out and staking. These stakes and marks shall constitute the field control by and in accord with which the Contractor shall govern and execute the work. The Contractor will be held responsible for the preservation of all stakes, marks and if for any reason any of the stakes or marks or batter boards become destroyed or disturbed, they will be immediately and accurately replaced by the Contractor.

4.13 The Contractor has, by careful examination, satisfied himself as to the nature and location of the work and all other matters which can in any way affect the work under this contract, including, but not limited to details pertaining to boring, as shown on the drawings, are not guaranteed to be more than a general indication of the materials likely to be found adjacent to holes bored at the site of the work, approximately at the locations indicated. The Contractor shall

examine boring data, where available, and make his own interpretation of the subsoil investigations and other preliminary data, and shall base his bid on his own opinion of the conditions likely to be encountered. In no event shall an extension of time be considered for any conditions that existed at the time of bidding, nor shall the Contractor receive extra compensation for completion of the project as intended by the drawings and in keeping with the contract documents. No verbal agreement or conversation with any officer, agent or

employee of the Owner, before or after the execution of this contract, shall affect or modify any of the terms or obligations herein contained.

- 4.14 If the Contractor, in the course of the work, finds that the drawings and/or Contract Documents cannot be followed, he shall immediately inform the Owner in writing, and the Owner shall promptly check the accuracy of the information. Any work done after such discovery, until any necessary changes are authorized, will be done at the Contractor's risk.

ARTICLE 5 - OWNER'S RESPONSIBILITIES

- 5.1 Owner shall furnish the data required of Owner under the contract documents promptly and shall make payments to the Contractor within a reasonable time (no more than 20 days) after the Work has been accepted by the Owner. The form of all submittals, notices, change orders and other documents permitted or required to be used or transmitted under the contract documents shall be determined by the Owner/Engineer. Standard County forms shall be utilized.
- 5.2 The Owner shall provide the lands upon which the Work under this contract is to be done, except that the Contractor shall provide all necessary additional land required for the erection of temporary construction facilities and storage of his materials, together with right of access to same.
- 5.3 The Owner shall have the right to take possession of and use any completed portions of the work, although the time for completing the entire work or such portions may not have expired, but such taking possession and use shall not be deemed an acceptance of any work not completed in accordance with the Contract Documents.

ARTICLE 6 - CHANGES IN THE WORK

- 6.1 Without invalidating the Agreement and without notice to any surety, Owner may, at any time, order additions, deletions or revisions in the Work. These will be authorized by a written amendment, a change order, or a work directive change. Upon receipt of any such document, Contractor shall promptly proceed with the Work involved which will be performed under the applicable conditions of the contract documents (except as otherwise specifically provided).
- 6.2 Contractor shall not be entitled to an increase in the contract price or an extension of the contract time with respect to any Work performed that is not required by the contract documents as amended, modified and supplemented.
- 6.3 Owner and Contractor shall execute appropriate change orders (or written amendments) covering changes in the Work which are ordered by Owner, or which may be required because of acceptance of defective Work.
- 6.4 At any time Engineer may request a quotation from Contractor for a proposed change in the Work and within twenty-one (21) calendar days after receipt, Contractor shall submit a written and detailed proposal for an increase or decrease in the contract price or contract time for the proposed change.

Engineer shall have 21 calendar days after receipt of the detailed proposal to respond in writing. The proposal shall include an itemized estimate of all costs and time for performance that will result directly or indirectly from the proposed change. Unless otherwise directed, itemized estimates shall be in sufficient detail to reasonably permit an analysis by Engineer of all material, labor, equipment, subcontracts, overhead costs and fees, and shall cover all Work involved in the change, whether such Work was deleted, added, changed or impacted. Notwithstanding the request for quotation, Contractor shall carry on the Work and maintain the progress schedule. Delays in the submittal of the written and detailed proposal will be considered non-prejudicial.

ARTICLE 7 - CHANGE OF CONTRACT PRICE

- 7.1 The contract price constitutes the total compensation (subject to authorized adjustments) payable to Contractor for performing the Work. All duties, responsibilities and obligations assigned to or undertaken by Contractor shall be at his expense without change in the contract price.
- 7.2 The contract price may only be changed by change order or by a written amendment. Any claim for an increase or decrease in the contract price shall be based on written notice delivered by the party making the claim to the other party. Notice of the amount of the claim with supporting data shall be delivered within ten (10) days from the beginning of such occurrence and shall be accompanied by claimant's written statement that the amount claimed covers all known amounts (direct, indirect and consequential) to which the claimant is entitled as a result of the occurrence of said event.
- 7.3 The value of any Work covered by a change order or of any claim for an increase or decrease in the contract price shall be determined in one of the following ways (at Owner's discretion):
 - 7.3.1 Where the Work involved is covered by unit prices contained in the contract documents, cost will be determined by application of such unit prices to the quantities of the items involved.
 - 7.3.2 By mutual acceptance of lump sum.
 - 7.3.3 On the basis of the cost of the Work, plus a 15% Contractor's fee for overhead and profit. (Contractor shall submit an itemized cost breakdown together with supporting data.)
- 7.4 Either Owner or Contractor may make a claim for an adjustment in the contract price. The unit price of an item of unit price Work shall be subject to re-evaluation and adjustment under the following conditions:
 - 7.4.1 If the total cost of a particular item of unit price Work amounts to 5% or more of the contract price and the variation in the quantity of the particular item of unit price Work performed by Contractor differs by more than 15% from the estimated quantity of such item indicated in the Agreement; and

- 7.4.2 If there is no corresponding adjustment with respect to any other item of Work; and
- 7.4.3 If a Contractor believes that it has incurred additional expense as a result thereof; or
- 7.4.4 If Owner believes that the quantity variation entitles it to an adjustment in the unit price; or
- 7.4.5 If the parties are unable to agree as to the effect of any such variations in the quantity of unit price Work performed.

ARTICLE 8 - CHANGE OF CONTRACT TIME

- 8.1 Contract time may only be changed by a change order or a written amendment. Any claim for an extension or shortening of the contract time shall be based on written notice delivered by the party making the claim to the other party. Notice of the extent of the claim with supporting data shall be delivered within fifteen (15) days from detection or beginning of such occurrence and shall be accompanied by the claimant's written statement that the adjustment claimed is the entire adjustment to which the claimant has reason to believe it is entitled as a result of the occurrence of said event.
- 8.2 The contract time will be extended in an amount equal to time lost due to delays beyond the control of Contractor. Such delays shall include, but not be limited to, acts or neglect by Owner or others performing additional work; or to fires, floods, epidemics, abnormal weather conditions or acts of God.
- 8.3 All time limits stated in the contract documents are of the essence.

ARTICLE 9 - WARRANTY, TEST/INSPECTION, CORRECTION

- 9.1 Contractor warrants (for a minimum period of one (1) year or as otherwise stated herein) and guarantees to Owner that all work will be in accordance with the contract documents and will not be defective; that Owner, representatives of Owner, governmental agencies with jurisdictional interests will have access to the work at reasonable time for their observation, inspecting and testing (Contractor shall give Engineer timely notice of readiness of the work for all required approvals and shall assume full responsibility, including costs, in obtaining required tests, inspections, and approval certifications and/or acceptance, unless otherwise stated by Owner).
- 9.2 If any work (including work of others) that is to be inspected, tested, or approved is covered without written concurrence of Engineer, it must, if requested by Engineer, be uncovered for observation. Such uncovering shall be at Contractor's expense unless Contractor has given Engineer timely notice of Contractor's intention to cover the same and Engineer has not acted with reasonable promptness in response to such notice. Neither observations by Engineer nor inspections, tests, or approvals by others shall relieve Contractor from Contractor's obligations to perform the work in accordance with the contract documents.
- 9.3 If the work is defective, or Contractor fails to supply sufficient skilled workers, or suitable materials or equipment, or fails to furnish or perform the work in such a way that the completed work will conform to the contract documents, Owner may order Contractor to stop the work, or any portion thereof and terminate payments to the Contractor until the cause for such order has been eliminated. Contractor shall bear all direct, indirect and consequential costs for satisfactory reconstruction or removal and replacement with non-defective work, including, but not limited to fees and charges of engineers, architects, attorneys and other professionals and any additional expenses experienced by Owner due to delays to other Contractors performing additional work and an appropriate deductive change order shall be issued. Contractor shall further bear the responsibility for maintaining schedule and shall not be entitled to an extension of the contract time and the recovery of delay damages due to correcting or removing defective work.
- 9.3.1 If Contractor fails within seven (7) days after written notice to correct defective work, or fails to perform the work in accordance with the contract documents, or fails to comply with any other provision of the contract documents, Owner may correct and remedy any such deficiency to the extent necessary to complete corrective and remedial action, Owner may exclude Contractor from all or part of the site, take possession of all or part of the work, Contractor's tools, construction equipment and machinery at the site or for which Owner has paid Contractor but which are stored elsewhere. All direct, indirect and costs of Owner in exercising such rights and remedies will be charged against Contractor in an amount approved as to reasonableness by Engineer and a change order will be issued incorporating the necessary revisions.

- 9.3.2 If within three (3) years after the date of completion or such longer period of time as may be prescribed by laws or regulations or by the terms of any applicable special guarantee required by the contract documents, any work is found to be defective, Contractor shall promptly, without cost to Owner and in accordance with Owner's written instructions, either correct such defective work or if it has been rejected by Owner, remove it from the site and replace it with non-defective work. If Contractor does not promptly comply with the terms of such instruction, Owner may have the defective work corrected/removed and all direct, indirect and consequential costs of such removal and replacement will be paid by Contractor.

ARTICLE 10 - SUSPENSION/TERMINATION OF WORK

- 10.1 Owner may, at any time and without cause, suspend the work or any portion thereof for a period of not more than ninety (90) days by written notice to Contractor, which will fix the date on which work will be resumed. Contractor shall be allowed an increase in the contract price or an extension of the contract time, or both, directly attributable to any suspension if Contractor makes an approved claim therefore.
- 10.2 Owner may terminate the contract if Contractor commences a voluntary case under any chapter of the Bankruptcy Code or any similar action by filing a petition under any other federal or state law relating to the bankruptcy or insolvency; if a petition is filed against the Contractor under any chapter of the Bankruptcy Code or similar relief under any other federal or state law; if Contractor persistently fails to perform the work in accordance with the contract documents; if Contractor disregards laws or regulations of any public body having jurisdiction or the Engineer; or otherwise violates in any substantial way any provisions of the contract.
- 10.2.1 Owner may, after giving Contractor (and the surety, if there is one) seven (7) days written notice and to the extent permitted by laws and regulations, terminate the services of Contractor; exclude Contractor from the site and take possession of the work and of all Contractor's tools, construction equipment and machinery at the site and use the same to the full extent they could be used (without liability to Contractor for trespass or conversion); incorporate in the work all materials and equipment stored at the site or for which Owner has paid Contractor but which are stored elsewhere, and finish the work as Owner may deem expedient. In such case, Contractor shall not be entitled to receive any further payment beyond an amount equal to the value of material and equipment not incorporated in the work, but delivered and suitably stored, less the aggregate of payments previously made. If the direct and indirect costs of completing the work exceed the unpaid balance of the contract price, Contractor shall pay the difference to Owner. Such costs incurred by Owner shall be verified by Owner and incorporated in a change order; but in finishing the work, Owner shall not be required to obtain the lowest figure for the work performed. Contractor's obligations to pay the difference between such costs and such unpaid balance shall survive termination of the Agreement.

- 10.3 If, through no act or fault of Contractor, the work is suspended for a period of more than ninety (90) days by Owner or under an order of court or other public authority, or Engineer fails to act on any application or fails to pay Contractor any sum finally determined to be due; then Contractor may, upon seven (7) days written notice to Owner terminate the Agreement and recover from Owner payment for all work executed, any expense sustained plus reasonable termination expenses. In lieu of terminating the Agreement, if Engineer has failed to act on any application of payment or Owner has failed to make any payment as aforesaid, Contractor may upon seven (7) days written notice to Owner stop the work until payment of all amounts then due.

ARTICLE 11 - CONTRACT CLAIMS

- 11.1 The rendering of a decision by Engineer with respect to any such claim, dispute or other matter (except any which have been waived by the making or acceptance of final payment) will be a condition precedent to any exercise by Owner or Contractor of such right or remedies as either may otherwise have under the contract documents or by laws or regulations in respect of any such claim, dispute or other matter. No action, either at law or at equity, shall be brought in connection with any such claim, dispute or other matter later than thirty (30) days after the date on which Owner/Engineer has rendered such written decision in respect thereof. Failure to bring an action within said thirty (30) day period shall result in Engineer's decision being final and binding on the Contractor. In no event may any such action be brought after the time at which instituting such proceedings would be otherwise barred by the applicable statute of limitations.
- 11.2 Before bringing any action in court pertaining to any claim, dispute or other matter in question(s) arising out of or relating to the contract documents or the breach thereof, or Engineer's final decision, except for claims which have been waived by the making and acceptance of final payment, the Contractor shall first submit written notice(s) of contract claims to the Purchasing Official for a decision; within the earlier of sixty (60) days after the last date on which the contractor provided any goods or services required by the contract or after the date on which the contractor knew or should have known such a claim existed. The Manatee County Code of Law section 2-26-63 Contract Claims details the requirements and process for such a claim.

ARTICLE 12 - RESIDENT PROJECT REPRESENTATIVE - DUTIES, RESPONSIBILITIES

- 12.1 Resident Project Representative is Engineer/Owner's Agent, who will act as directed by and under the supervision of the Engineer, and who will confer with Owner/Engineer regarding his actions. Resident Project Representative's dealing in matters pertaining to the on-site work shall, in general, be only with the Owner/Engineer and Contractor and dealings with subcontractors shall only be through or with the full knowledge of Contractor.
- 12.2 Resident Project Representative will:
- 12.2.1 Review the progress schedule, schedule of shop drawing submissions and schedule of values prepared by Contractor and consult with Owner/Engineer concerning their acceptability.
 - 12.2.2 Attend preconstruction conferences. Arrange a schedule of progress meetings and other job conferences as required in consultation with Owner/Engineer and notify those expected to attend in advance. Attend meetings and maintain and circulate copies of minutes thereof.
 - 12.2.3 Serve as Owner/Engineer's liaison with Contractor, working principally through Contractor's superintendent and assist him in understanding the intent of the contract documents. As requested by Owner/Engineer, assist in obtaining additional details or information when required at the job site for proper execution of the Work.
 - 12.2.4 Receive and record date of receipt of shop drawings and samples, receive samples which are furnished at the site by Contractor and notify Owner/Engineer of their availability for examination.
 - 12.2.5 Advise Owner/Engineer and Contractor or his superintendent immediately of the commencement of any work requiring a shop drawing or sample submission if the submission has not been approved by the Owner/Engineer.
 - 12.2.6 Conduct on-site observations of the work in progress to assist Owner/Engineer in determining if the work is proceeding in accordance with the contract documents and that completed work will conform to the contract documents.
 - 12.2.7 Report to Owner/Engineer whenever he believes that any work is unsatisfactory, faulty or defective or does not conform to the contract documents, or does not meet the requirements of any inspections, tests or approvals required or if work has been damaged prior to final payment; and advise Owner/Engineer when he believes work should be corrected or rejected or should be uncovered of observation or requires special testing, inspection or approval.

- 12.2.8 Verify that tests, equipment and system start-ups and operating and maintenance instructions are conducted as required by the contract documents and in the presence of the required personnel, and that Contractor maintains adequate records thereof; observe, record and report to Engineer appropriate details relative to the test procedures and start-ups.
- 12.2.9 Accompany visiting inspectors representing public or other agencies having jurisdiction over the project; record the outcome of these inspections and report to Owner/Engineer.
- 12.2.10 Transmit to Contractor, Owner/Engineer's clarifications and interpretations of the contract documents.
- 12.2.11 Consider and evaluate Contractor's suggestions or modifications in drawings or Contract Documents and report them with recommendations to Owner/Engineer.
- 12.2.12 Maintain at the job site orderly files for correspondence, reports of job conferences, shop drawings and sample submissions, reproductions of original contract documents including all addenda, change orders, field orders, additional drawings issued subsequent to the execution of the contract, Owner/Engineer's clarifications and interpretations of the contract documents, progress reports and other project related documents.
- 12.2.13 Keep a diary or log book, recording hours on the job site, weather conditions, data relative to questions of extras or deductions; list of visiting officials and representatives or manufacturers, fabricators, suppliers and distributors; daily activities, decisions, observations in general and specific observations in more detail as in the case of observing test procedures. Send copies to Owner/Engineer.
- 12.2.14 Record names, addresses and telephone numbers of all Contractors, subcontractors and major suppliers of materials and equipment.
- 12.2.15 Furnish Owner/Engineer periodic reports as required of progress of the work and Contractor's compliance with the approved progress schedule and schedule of shop drawing submissions.
- 12.2.16 Consult with Owner/Engineer in advance of scheduling major tests, inspections or start of important phases of the work.
- 12.2.17 Report immediately the occurrence of any accident.
- 12.2.18 Review applications for payment with Contractor for compliance with the established procedure for their submission and forward them with recommendations to Owner/Engineer, noting particularly their relation to the schedule of values, work completed and materials and equipment delivered at the site but not incorporated in the work

- 12.2.19 During the course of the work, verify that certificates, maintenance and operations manuals and other data required to be assembled and furnished by Contractor are applicable to the items actually installed, and deliver this material to Owner/Engineer for his review prior to final acceptance of the work.
- 12.2.20 Before Owner/Engineer issues a Certificate of Substantial Completion, submit to Contractor a list of observed items requiring completion or correction.
- 12.2.21 Conduct final inspection in the company of Owner/Engineer and Contractor and prepare a final list of items to be completed or corrected.
- 12.2.22 Verify that all items on final list have been completed or corrected and make recommendations to Owner/Engineer concerning acceptance.
- 12.3 Except upon written instructions of Owner/Engineer, Resident Project Representative.
 - 12.3.1 Shall not authorize any deviation from the contract documents or approve any substitute materials or equipment;
 - 12.3.2 Shall not exceed limitations on Owner/Engineer's authority as set forth in the contract documents;
 - 12.3.3 Shall not undertake any of the responsibilities of Contractor, Subcontractors or Contractor's Superintendent, or expedite the work;
 - 12.3.4 Shall not advise on or issue directions relative to any aspect of the means, methods, techniques, sequences or procedures of construction unless such is specifically called for in the contract documents;
 - 12.3.5 Shall not advise on or issue directions as to safety precautions and programs in connection with the work;
 - 12.3.6 Shall not authorize Owner to occupy the project in whole or in part; and
 - 12.3.7 Shall not participate in specialized field or laboratory tests.

ARTICLE 13 - APPRENTICES

- 13.1 If successful Contractor employs apprentices, he shall be governed and comply with the provisions of F.S. § 446.011.

NOTE: The form of all submittals, notices, change orders and other documents permitted or required to be used or transmitted under the Contract shall be determined by the County. Standard County forms shall be utilized.

END OF SECTION

LABEL TO AFFIX TO OUTSIDE OF SEALED BID PACKAGE

Cut along the outside border and affix this label to your sealed bid envelope to identify it as a "Sealed Bid". Be sure to include the name of the company submitting the bid where requested.

LABEL TO AFFIX TO OUTSIDE OF SEALED BID PACKAGE

SEALED BID - DO NOT OPEN

CONTRACTOR: _____
SEALED BID NO: **13-1774-OV**
BID TITLE : Construction of Concrete ADA Boarding Pads, ADA Boarding Pads w/ Shelter Slabs, ADA Boarding Pads w/ Bench Slabs
DUE DATE/TIME: _____ @ _____ **PM**

ATTACHMENT 'B'
MANATEE COUNTY GOVERNMENT
PUBLIC CONSTRUCTION BOND

Bond No. _____
(Enter bond number)

BY THIS BOND, We _____, located at _____, as
(Name of Contractor) (Address)
Principal and _____, a corporation, whose address is
(Name of Surety)

are bound to Manatee County, a political subdivision of the State of Florida, herein called County, in the sum of \$ _____, for payment of which we bind ourselves, our heirs, personal representatives, successors, and assigns, jointly and severally.

WHEREAS, the Contractor has entered into Contract No. _____ with the County for the project titled insert title of project, with conditions and provisions as are further described in the aforementioned Contract, which Contract is by reference made a part hereof for the purposes of explaining this bond.

THE CONDITION OF THIS BOND is that if Principal:

1. Performs Contract No. _____, between Principal and County for construction of insert title of project, the Contract being made a part of this bond by reference, at
(Title of Project)

the times and in the manner prescribed in the Contract; and

2. Promptly makes payments to all claimants, as defined in Section 255.05(1), Florida Statutes, supplying Principal with labor, materials, or supplies, used directly or indirectly by Principal in the prosecution of the Work provided for in the Contract; and

3. Pays County all losses, damages, expenses, costs, and attorney's fees, including appellate proceedings, that County sustains because of a default by Principal under the Contract; and

4. Performs the guarantee of all Work and materials furnished under the Contract for the time specified in the Contract, then this bond is void; otherwise it remains in full force.

Any action instituted by a claimant under this bond for payment must be in accordance with the notice and time limitation provisions in Section 255.05(2), Florida Statutes.

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

DATED ON _____.

CONTRACTOR AS PRINCIPAL

Company Name

Signature

Print Name & Title

(Corporate Seal)

SURETY

Company Name

Signature

Print Name & Title

(Corporate Seal)

AGENT or BROKER

Company Name

Address

Telephone

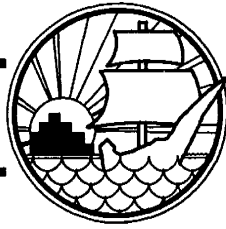
Licensed Florida Insurance Agent? ☐ **Yes** ☐ **No**

License #: _____

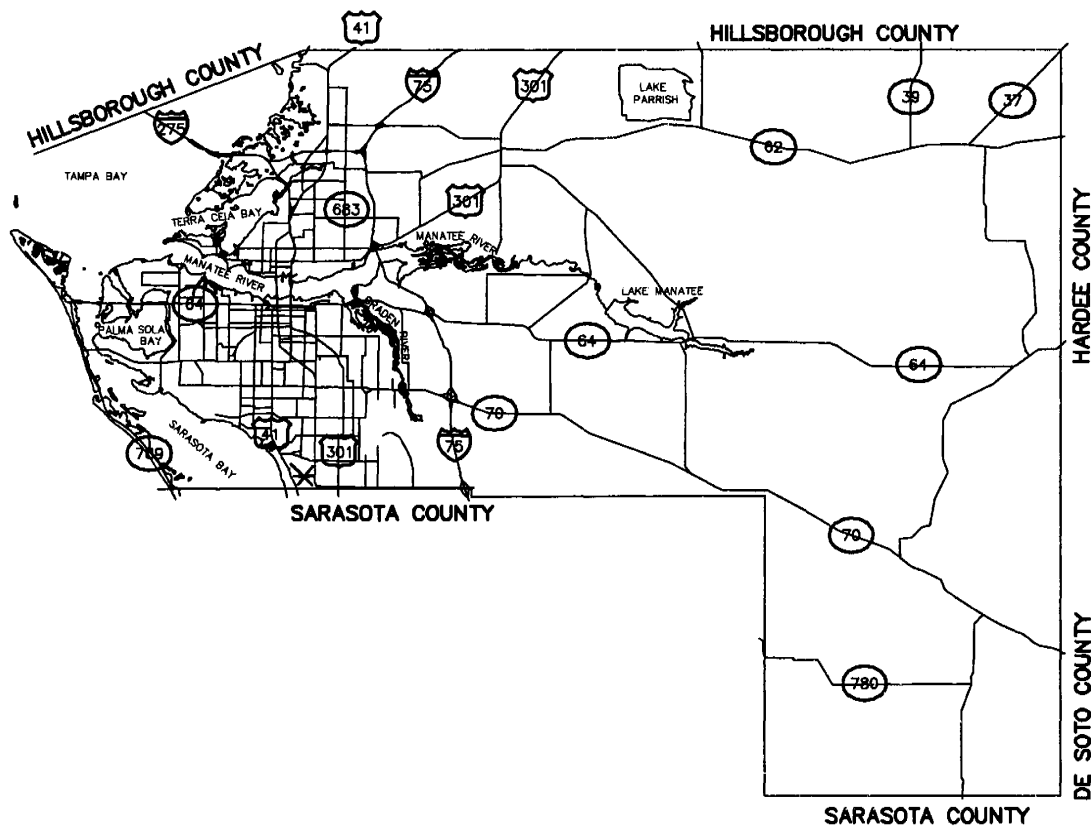
State of: _____

County of: _____

City of: _____



MANATEE COUNTY TRANSPORTATION DEPARTMENT



HIGHWAY, TRAFFIC & STORMWATER STANDARDS

2007

APPROVED BY B.O.C.C.
DATE OF APPROVAL: 6/12/07

MANATEE COUNTY TRANSPORTATION DEPARTMENT		DISCLAIMER SHEET
REV. BY	DATE	
6/12/07 DATE OF B.O.C.C. APPROVAL		

GENERAL INDEX

<u>SECTION</u>		<u>SHEET NO. SERIES</u>
100	DRIVEWAYS	100.0
200	CURB & GUTTER, DRAINAGE STRUCTURES, PIPE	200.0
300	SIDEWALKS	300.0
400	ROADS	400.0
500	TRAFFIC SUPPLEMENTAL SPECIFICATIONS	500.0
600	LANDSCAPING SUPPLEMENTAL SPECIFICATIONS	600.0
700	LOT DRAINAGE SPECIFICATIONS	700.0
800	AS-BUILT REQUIREMENTS	800.0

MANATEE COUNTY

TRANSPORTATION DEPARTMENT

REV.BY DATE

6/12/07

DATE OF B.O.C.C. APPROVAL

GENERAL INDEX

DRIVEWAYS INDEX

	<u>SHEET NO.</u>
100 DRIVEWAYS	100.0
A. GENERAL NOTES	100.1
B. RURAL RESIDENTIAL	101.0
C. URBAN	101.1
D. CURB CUT & TRANSITION W/T- FLARE FOR RES. DRIVE	101.2
E. COMMERCIAL & INDUSTRIAL DRIVE	101.3
F. TYPICAL DRIVEWAY, PIPE CROSS SECTION	102.0
G. MITERED END SECT. FOR ELLIPTICAL, SINGLE AND MULTIPLE PIPES	102.1
H. MITERED END SECT. FOR ROUND, SINGLE AND MULTIPLE PIPES	102.2
I. DRIVEWAY PIPE/MITERED END SECTION	103.0
J. FILTER FABRIC JACKET	104.0

MANATEE COUNTY		DRIVEWAY INDEX	100.0
TRANSPORTATION DEPARTMENT			
REV. BY	DATE		
<div style="display: flex; justify-content: space-between;"> <div>6/12/07</div> <div>DATE OF B.O.C.C. APPROVAL</div> </div>			

GENERAL NOTES

- (1) COMPLETE APRON, INCLUDING SIDEWALK, IS TO BE 6" REINFORCED CONCRETE (3,000 PSI) SEE SECTION 300 "SIDEWALKS".
- (2) 1/2" THICK FIBERBOARD EXPANSION MATERIAL IS TO BE PLACED BETWEEN THE CURB AND THE APRON. MATERIAL SHALL MEET THE REQUIREMENTS OF AASHTO M153 OR AASHTO M213.
- (3) CATCH BASINS, WHEN REQUIRED, WILL BE CONSTRUCTED IN COMPLIANCE WITH MANATEE COUNTY TRANSPORTATION DEPT. SECTION 200, STD. 202.0.
- (4) DRIVEWAYS SHALL NOT INTERSECT A STREET CORNER RADIUS NOR BE CLOSER TO THE INTERSECTION THAN THE EXTENDED STREET LINES (RIGHT OF WAY) AS PROVIDED BELOW:

USE OF LOT SERVICED	CLASSIFICATION OF INTERSECTING STREETS	MINIMUM REQ'D DISTANCE
RESIDENTIAL GREATER THAN FOUR DWELLING UNITS / ACRE	ARTERIAL	60'
	MAJOR COLLECTOR	40'
	MINOR COLLECTOR	30'
	LOCAL	30'
ALL OTHER USES	ARTERIAL	75'
	MAJOR COLLECTOR	60'
	MINOR COLLECTOR	50'
	LOCAL	50'

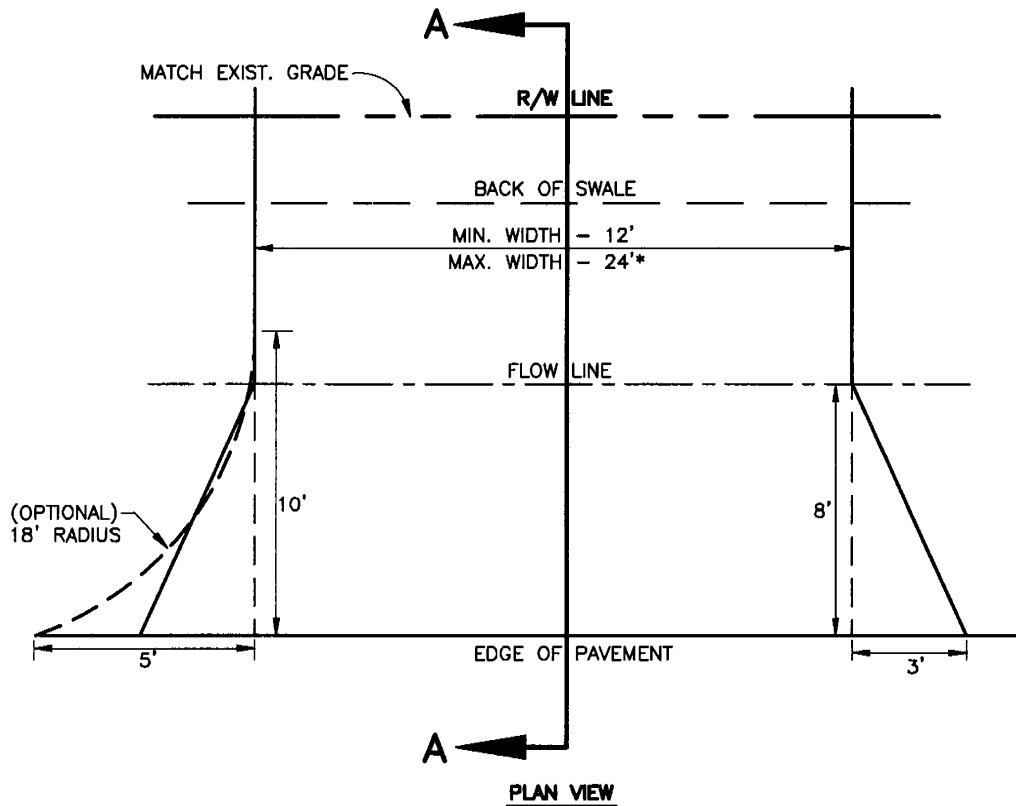
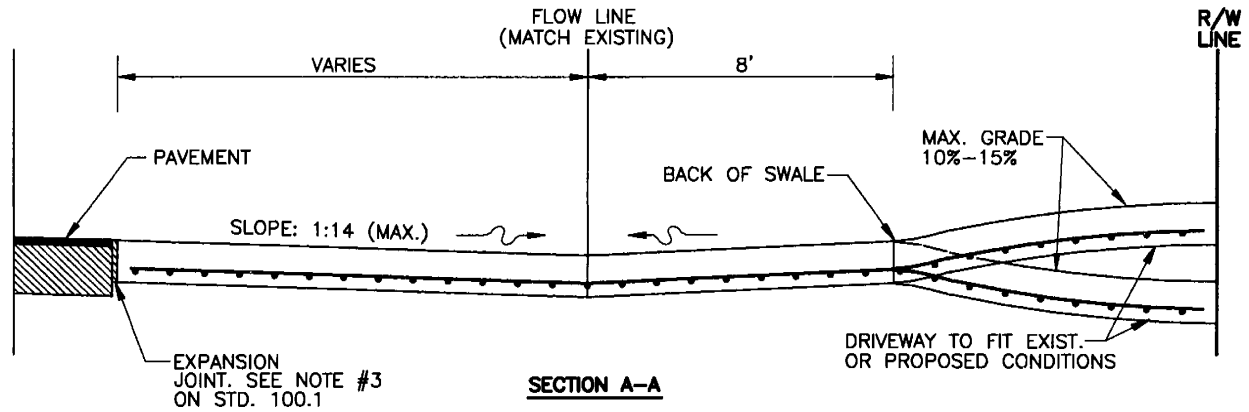
(5) CONSTRUCTION STANDARDS:

DRIVEWAYS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE ADOPTED CONSTRUCTION STANDARDS OF THE TRANSPORTATION DEPARTMENT. AS A MINIMUM, ALL DRIVEWAYS LOCATED ALONG PAVED STREETS SHALL BE PROVIDED AND MAINTAINED WITH A SMOOTH, DUSTLESS SURFACE FROM THE EDGE OF THE ROAD PAVEMENT TO THE RIGHT-OF-WAY LINE.

- (6) DRIVEWAYS CONSTRUCTED OF BRICK, STONE, OR OTHER SEMI - PERMANENT MATERIAL (LIMESTONE, SHELL AND SIMILAR MATERIALS ARE NOT ALLOWED) MUST BE PLACED UPON A COMPACTED BASE OF SUCH THICKNESS SO AS TO EQUAL A COMBINED 6" OF BASE AND SURFACE MATERIAL OR PER MANUFACTURER'S SPECIFICATIONS, WHICHEVER IS MORE STRINGENT. THESE DRIVES MUST BE MAINTAINED AND REPAIRED BY THE ABUTTING PROPERTY OWNER. NO EXPANSION JOINT IS REQUIRED.
- (7) SEE MANATEE COUNTY LAND DEVELOPMENT CODE, ORD. 92-60.
- (8) ALL REFERENCED STANDARDS SHALL BE LATEST REVISION.
- (9) ALL STORMWATER PIPE SHALL BE INSTALLED BEHIND THE CURB OR EDGE OF PAVEMENT AND WITHIN THE RIGHT OF WAY AND WITHIN DRAINAGE EASEMENT.

*NOTE: FOR COMPLETE DRIVEWAY DETAILS, SEE F.D.O.T. DESIGN STANDARDS, 2006 EDITION, INDEX 310, SHEETS 1 & 2 AND INDEX 515, SHEETS 2 THROUGH 6.

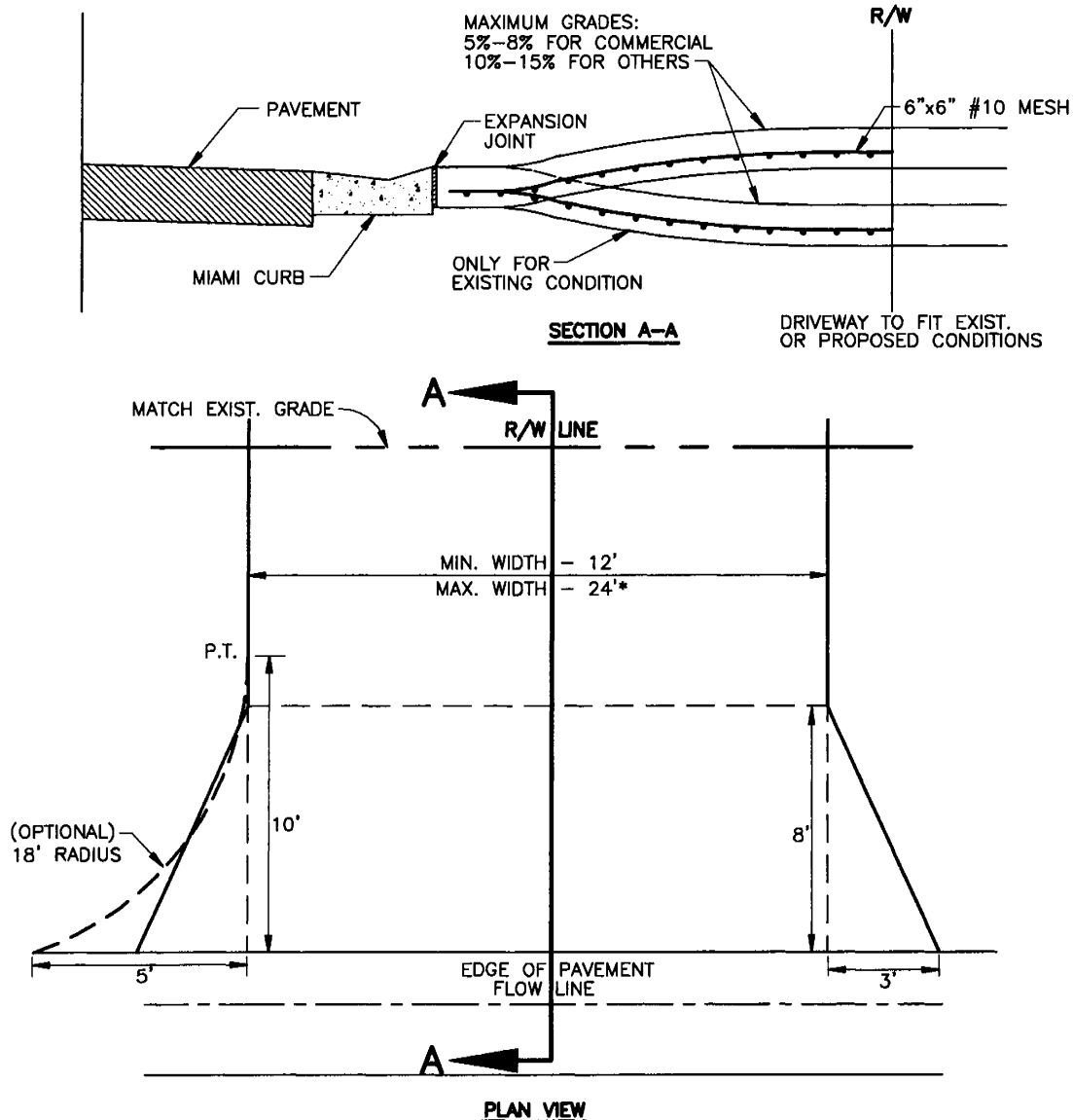
MANATEE COUNTY		GENERAL NOTES	100.1
TRANSPORTATION DEPARTMENT			
REV. BY	DATE		
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- * For driveways that can demonstrate the need for additional width, the width may not be greater than the LESSER of:
- a.) 30' total at the R/W line
 - b.) 30% of the front footage as defined on the survey (or field measurements, 36' max.)

- (A) CONSTRUCT WITH 6" REINFORCED CONCRETE (3,000 psi @ 28 DAYS) WITH 6"x6" #10 MESH FROM EDGE OF PAVEMENT TO THE RIGHT-OF-WAY LINE.
- (B) DRIVEWAYS ADJACENT TO A PAVED ROADWAY MUST HAVE THE APRON CONSTRUCTED IN COMPLIANCE WITH THE NOTE (A) ABOVE.
- (C) EXISTING DRAINAGE FLOWLINE TO BE MAINTAINED. PIPING MAY BE REQUIRED AT THE COUNTY'S DISCRETION.
- (D) 3'x8' FLARED APRON IS MINIMAL, OR 18' RADIUS.
- (E) ENGINEERING DIVISION MANAGER MAY APPROVE THE USE OF A SWALE DRIVE, IF ON-SITE CONDITIONS ARE FAVORABLE.

MANATEE COUNTY			RURAL RESIDENTIAL (SWALE DRIVE)	101.0
TRANSPORTATION DEPARTMENT				
REV.BY	DATE	6/12/07 DATE OF B.O.C.C. APPROVAL		



* For driveways that can demonstrate the need for additional width, the width may not be greater than the LESSER of:

- 30' total at the R/W line
- 30% of the front footage as defined on the survey (or field measurement, 36' max.)

- CONSTRUCT WITH 6" REINFORCED CONCRETE 3000 PSI @ 28 DAYS, 6"x6" #10 WIRE MESH FROM BACK OF CURB- TO R/W LINE.
- DRIVEWAYS ADJACENT TO A PAVED ROADWAY MUST HAVE THE APRON CONSTRUCTED IN COMPLIANCE WITH THE NOTE (A) ON PREVIOUS PAGE (STD. 101.0)
- MAINTAIN EXISTING DRAINAGE FLOWLINE. FOR PIPING SPECIFICATIONS REFER TO F.D.O.T. STANDARD SPECIFICATIONS SECTION 430. SEE NOTE 4, PAGE 100.1. SEE SECTION 200- DRAINAGE (STD. 200.0, 202.5).
- 3'x8' FLARE OR 18' RADIUS WITH CURB TRANSITION (TRANSITION FROM TYPE "F" CURB TO MIAMI CURB) SEE STD. 102.2 NO CHANGE WITH 3' VALLEY CROSSINGS - SEE STDS. 201.0, 201.1, 201.2, 201.4, 201.5, 201.6.
- EXPANSION JOINT 0.50" PREFORMED JOINT FILLER OR APPROVED ALTERNATE, DRIVES WIDER THAN 12' (BEYOND FLARE) PLACE JOINT ON 10' CENTER.
- LATERAL ALIGNMENT 45 DEGREES FOR DOUBLE DRIVE PER LOT, 90 DEGREES FOR SINGLE DRIVE, OFF CENTER LINE.

MANATEE COUNTY
TRANSPORTATION DEPARTMENT

REV. BY	DATE	

6/12/07

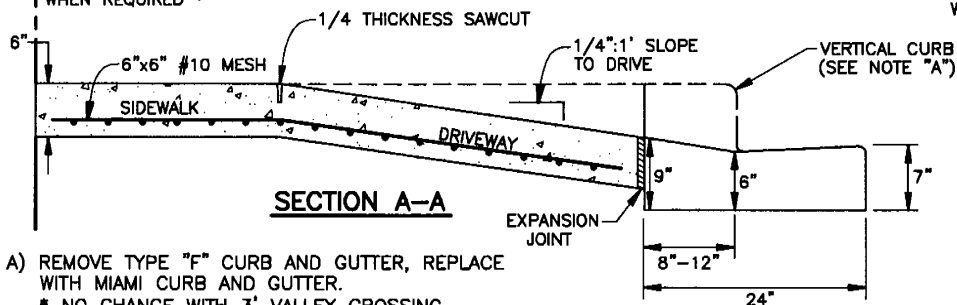
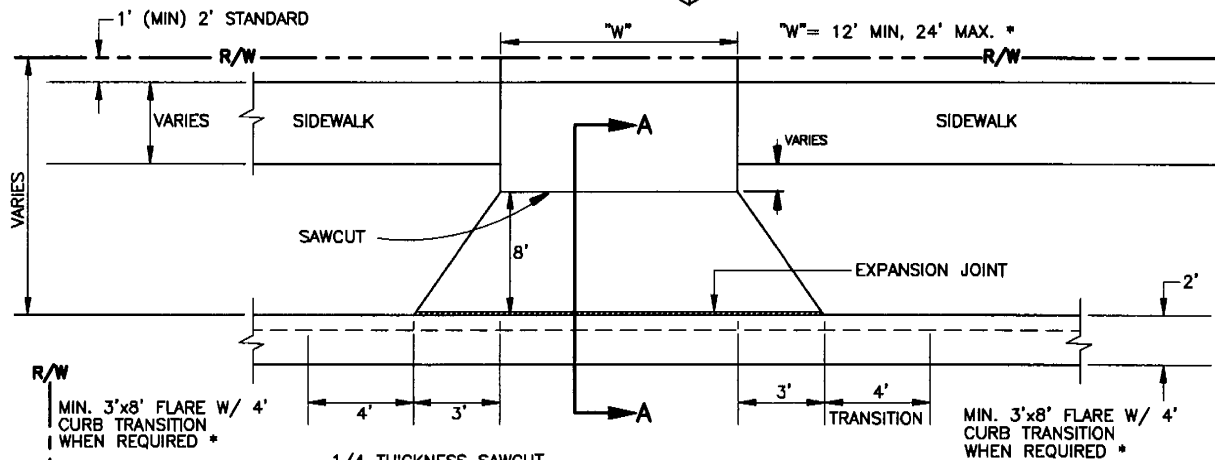
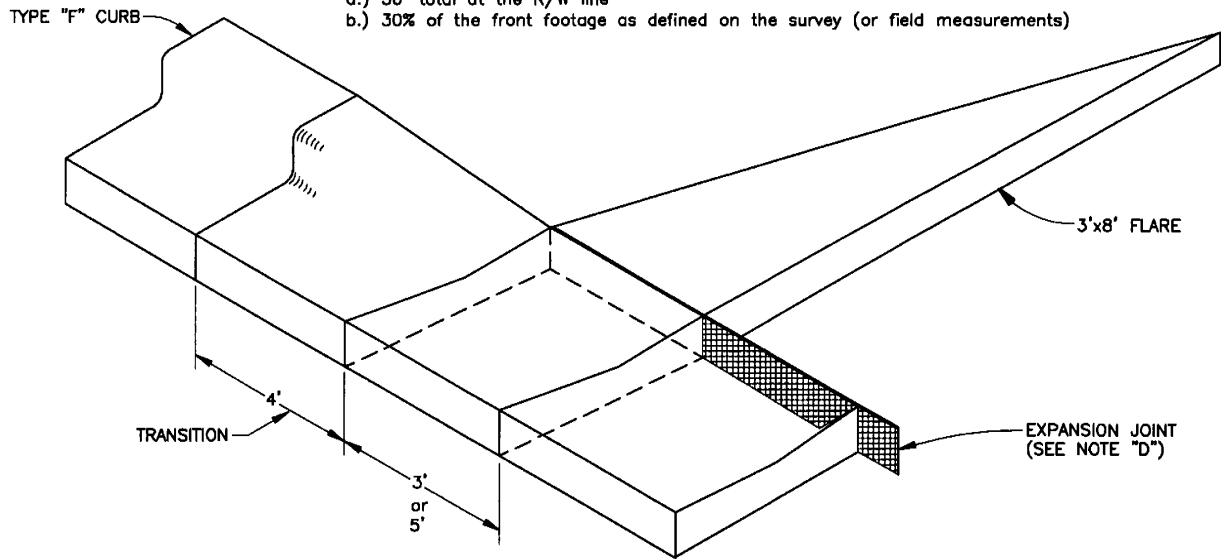
DATE OF B.O.C.C. APPROVAL

URBAN DRIVES

101.1

TYPE "F" CURB For * driveways that can demonstrate the need for additional width, the width may not be greater than the LESSER of:

- 30' total at the R/W line
- 30% of the front footage as defined on the survey (or field measurements)



- REMOVE TYPE "F" CURB AND GUTTER, REPLACE WITH MIAMI CURB AND GUTTER.
* NO CHANGE WITH 3' VALLEY CROSSING
- REMOVE EXISTING SIDEWALK, REPLACE WITH 6" CONCRETE, 6"x6" #10 MESH 3000 PSI AT 28 DAYS.
- DRIVEWAY CONSTRUCTED WITH 6" CONCRETE WITH 6"x6" #10 MESH 3000 PSI AT 28 DAYS
- EXPANSION JOINT 1/2" PREFORMED JOINT FILLER PER FDOT SECTION 932-1.1 OR APPROVED ALTERNATE
- 5' SIDEWALK ON LOCAL STREETS, 5' SIDEWALK ON THOROUGHFARES. MIXED USE PATHS MAY REQUIRE 8' SIDEWALKS PER LAND DEVELOPMENT CODE.
- SAWCUT (1/4 THICKNESS MINIMUM) ON 10' CENTERS. IF DRIVE IS WIDER THAN 12', ADD JOINTS AT 10' CENTERS.

MANATEE COUNTY
TRANSPORTATION DEPARTMENT

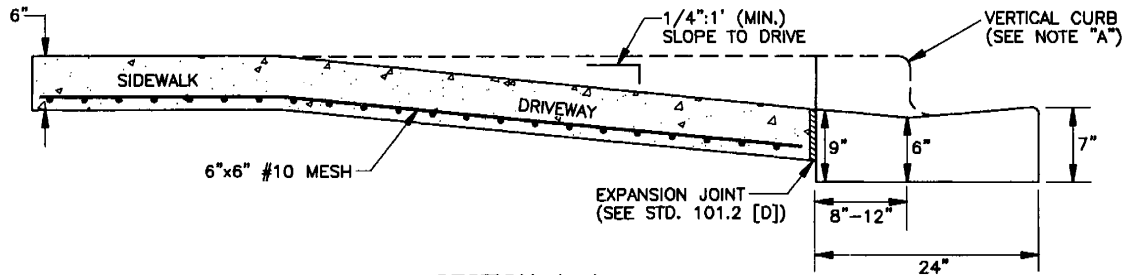
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6/12/07

DATE OF B.O.C.C. APPROVAL

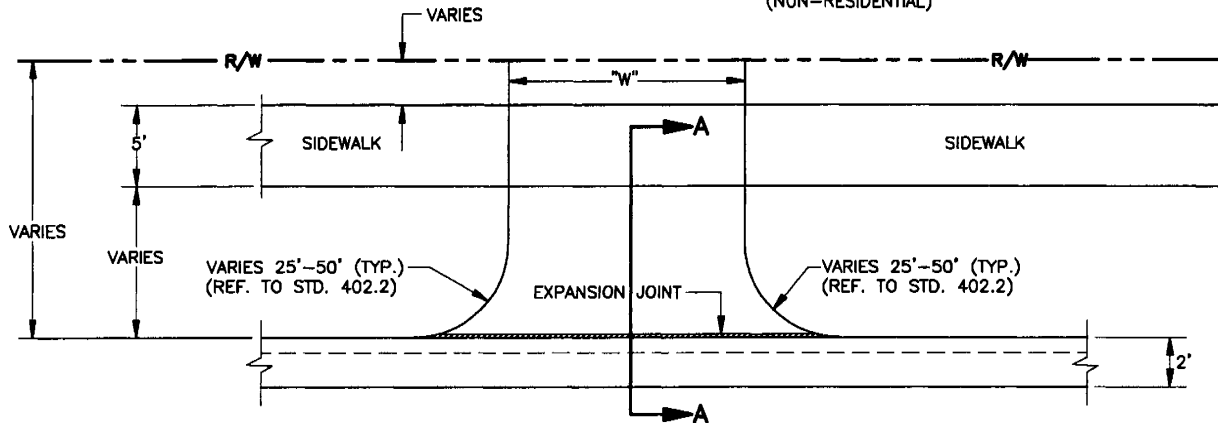
**CURB CUT &
TRANSITION W/ T-FLARE
FOR RESIDENTIAL
DRIVES**

101.2



SECTION A-A

NOTE: "W"=24' MIN, 36' MAX.
(NON-RESIDENTIAL)



PLAN VIEW

- A) IF REPLACING VERTICAL CURB AND GUTTER, REPLACE WITH MIAMI CURB AND GUTTER.
* NO CHANGE WITH 3' VALLEY CROSSING
- B) SIDEWALK, CONSTRUCT WITH 6" CONCRETE, 6"x6" #10 MESH, 3000 PSI AT 28 DAYS.
- C) DRIVEWAY CONSTRUCTED WITH 6" CONCRETE WITH 6"x6" #10 MESH, 3000 PSI AT 28 DAYS.
- D) EXPANSION JOINT 1/2" PREFORMED JOINT FILLER PER FDOT SECTION 932-1.1 OR APPROVED ALTERNATE.
* IF DRIVE IS WIDER THAN 12', ADD JOINTS AT 10' CENTERS
- E) 5' SIDEWALK ON LOCAL STREETS, 5' SIDEWALK ON THOROUGHFARES.
(MIXED USE PATHS MAY REQUIRE 8' SIDEWALKS PER LAND DEVELOPMENT CODE.)

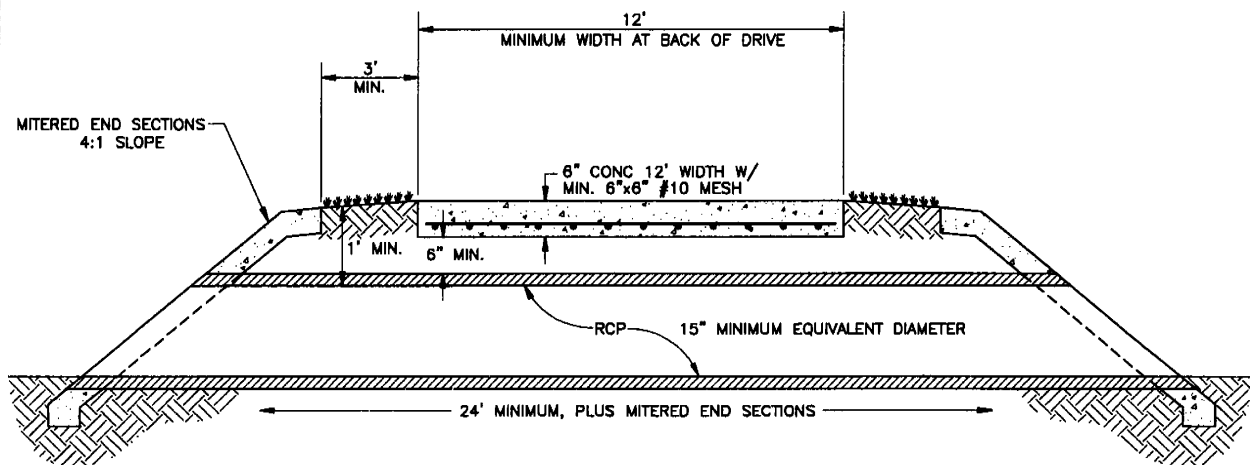
MANATEE COUNTY
TRANSPORTATION DEPARTMENT

REV. BY	DATE

6/12/07
DATE OF B.O.C.C. APPROVAL

**COMMERCIAL &
INDUSTRIAL DRIVE**

101.3



TYPICAL DRIVEWAY

VARIABLES: C.M.P. WILL NOT BE ALLOWED WITHIN THE RIGHT-OF-WAY.
R.C.P. WILL REQUIRE A MINIMUM 6" OF COVER BENEATH BOTTOM OF DRIVEWAY, FOR A TOTAL OF 1' OF COVER. HDPE PIPE IS ACCEPTABLE IN LIEU OF RCP.

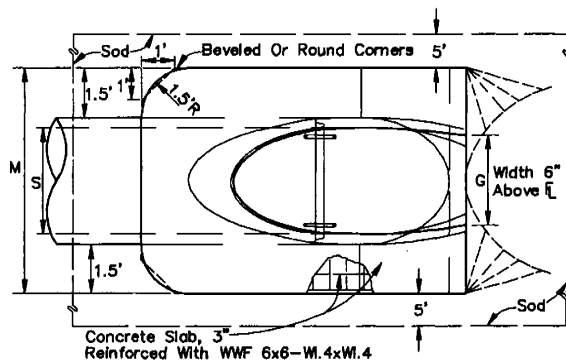
- NOTE: 1) GRADES AND LOCATIONS MUST BE REVIEWED AND APPROVED BY THE DRIVEWAY INSPECTOR FOR ALL PIPE INSTALLATIONS
- 2) ACTUAL REQUIRED PIPE DIAMETER WILL BE BASED ON THE FLOW RATE REQUIRED TO PASS THROUGH PIPE SO AS NOT TO IMPOUND WATER UPSTREAM.
- 3) PIPE SIZE TO BE DETERMINED AND APPROVED BY MANATEE COUNTY.

MANATEE COUNTY			TYPICAL DRIVEWAY PIPE CROSS SECTION	102.0
REV.BY	DATE			
		6/12/07		
		DATE OF B.O.C.C. APPROVAL		

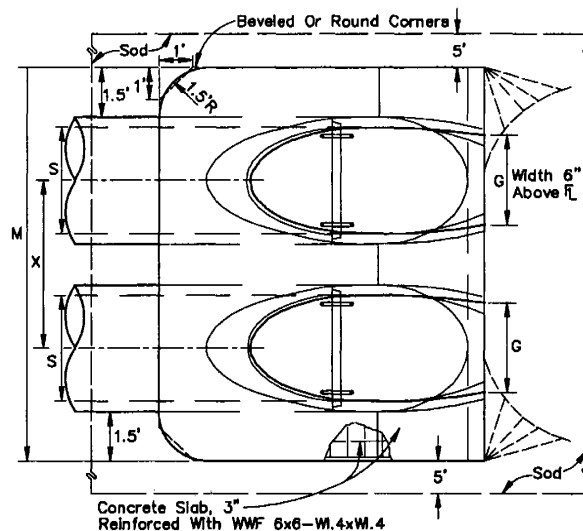
ELLIPTICAL PIPE

DIMENSIONS & QUANTITIES

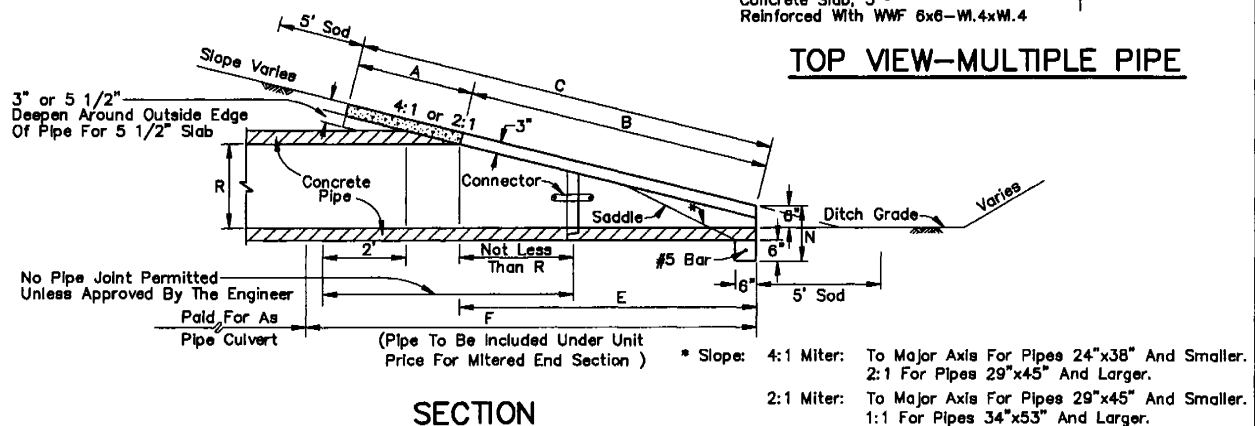
	Rise R	Span S	X	A	B	C	E	F	G	M			
										Single Pipe	Double Pipe	Triple Pipe	Quad. Pipe
2:1 Slope	12"	18"	2'-10"	1.97'	1.62'	3.59'	1.56'	4'	1.50'	4.92'	7.75'	10.58'	13.42'
	14"	23"	3'-4"	2.01'	1.99'	4.00'	1.89'	5'	1.90'	5.38'	8.71'	12.04'	15.38'
	19"	30"	4'-0"	2.11'	2.92'	5.03'	2.73'	6'	2.37'	6.04'	10.04'	14.04'	18.04'
	24"	38"	5'-0"	2.20'	3.85'	6.05'	3.56'	7'	2.85'	6.79'	11.79'	16.79'	21.79'
	29"	45"	5'-11"	2.34'	4.79'	7.13'	4.39'	8'	3.19'	7.50'	13.42'	19.33'	25.25'
	34"	53"	7'-0"	2.43'	5.72'	8.15'	5.23'	9'	3.57'	8.25'	15.25'	22.25'	29.25'
	38"	60"	7'-10"	2.52'	6.46'	8.98'	5.89'	9'	3.95'	8.92'	16.75'	24.58'	32.42'
	43"	68"	8'-11"	2.62'	7.39'	10.01'	6.73'	10'	4.28'	9.67'	18.58'	27.50'	36.42'
	48"	76"	9'-11"	2.71'	8.33'	11.04'	7.56'	11'	4.59'	10.42'	20.33'	30.25'	40.17'
	53"	83"	10'-8"	2.80'	9.26'	12.06'	8.39'	12'	4.77'	11.08'	21.75'	32.42'	43.08'
4:1 Slope	12"	18"	2'-10"	2.36'	3.06'	5.42'	3.03'	5'	1.50'	4.92'	7.75'	10.58'	13.42'
	14"	23"	3'-4"	2.44'	3.75'	6.19'	3.70'	6'	1.90'	5.38'	8.71'	12.04'	15.38'
	19"	30"	4'-0"	2.62'	5.47'	8.09'	5.36'	8'	2.37'	6.04'	10.04'	14.04'	18.04'
	24"	38"	5'-0"	2.79'	7.18'	9.97'	7.03'	10'	2.85'	6.79'	11.79'	16.79'	21.79'
	29"	45"	5'-11"	3.05'	8.90'	11.95'	8.70'	12'	3.19'	7.50'	13.42'	19.33'	25.25'
	34"	53"	7'-0"	3.22'	10.62'	13.84'	10.36'	13'	3.57'	8.25'	15.25'	22.25'	29.25'
	38"	60"	7'-10"	3.39'	11.99'	15.38'	11.70'	15'	3.95'	8.92'	16.75'	24.58'	32.42'
	43"	68"	8'-11"	3.56'	13.71'	17.27'	13.36'	17'	4.28'	9.67'	18.58'	27.50'	36.42'
	48"	76"	9'-11"	3.73'	15.43'	19.16'	15.03'	19'	4.59'	10.42'	20.33'	30.25'	40.17'
	53"	83"	10'-8"	3.91'	17.15'	21.06'	16.70'	20'	4.77'	11.08'	21.75'	32.42'	43.08'
4:1 Slope	58"	91"	11'-8"	4.08'	18.87'	22.95'	18.36'	22'	5.01'	11.83'	23.50'	35.17'	46.83'



TOP VIEW-SINGLE PIPE



TOP VIEW-MULTIPLE PIPE



SECTION

MANATEE COUNTY
TRANSPORTATION DEPARTMENT

REV. BY	DATE

6/12/07

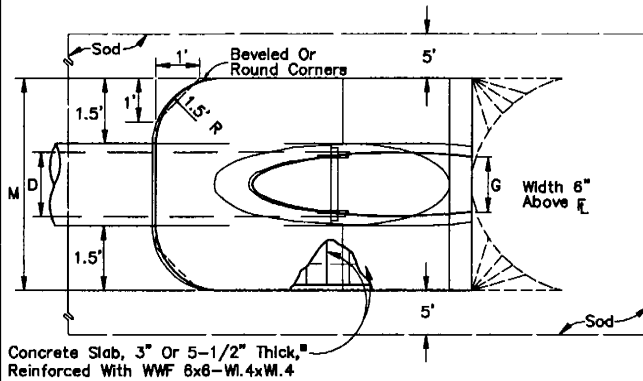
DATE OF B.O.C.C. APPROVAL

MITERED END SECTION
FOR ELLIPTICAL, SINGLE,
AND MULTIPLE PIPES

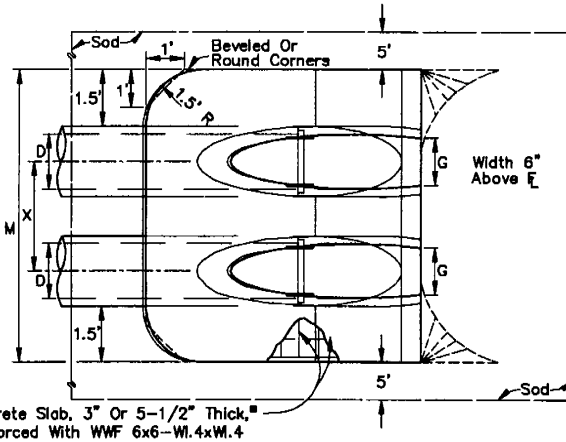
102.1

ROUND PIPE

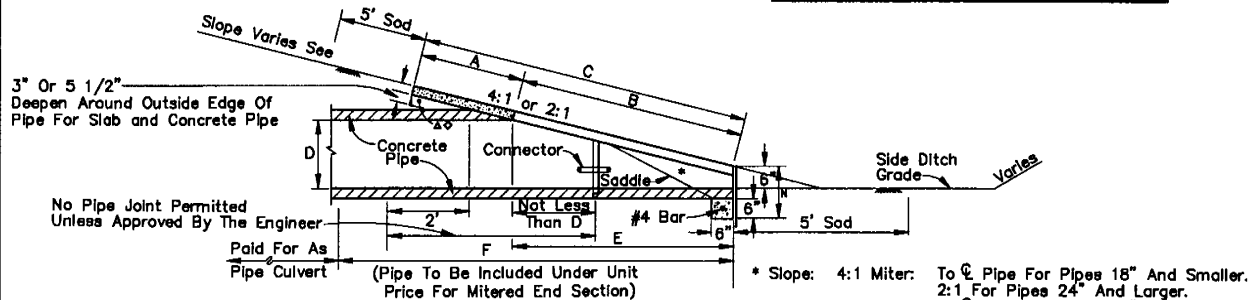
DIMENSIONS AND QUANTITIES												
	D	X	A	B	C	E	F	G	M			
									Single	Double	Triple	Quad.
									Pipe	Pipe	Pipe	Pipe
2:1 Slope	15"	2'-7"	1.92'	2.18'	4.10'	2.06'	5'	1.22'	4.63'	7.21'	9.79'	12.37'
	18"	2'-10"	1.97'	2.74'	4.71'	2.56'	6'	1.41'	4.92'	7.75'	10.58'	13.42'
	24"	3'-5"	2.06'	3.85'	5.91'	3.56'	7'	1.73'	5.50'	8.92'	12.33'	15.75'
	30"	4'-3"	2.15'	4.95'	7.10'	4.56'	8'	2.00'	6.08'	10.33'	14.58'	18.83'
	36"	5'-1"	2.25'	6.08'	8.33'	5.56'	9'	2.24'	6.67'	11.75'	16.83'	21.92'
	42"	6'-0"	2.34'	7.21'	9.55'	6.56'	10'	2.45'	7.25'	13.25'	19.25'	25.25'
	48"	6'-9"	2.43'	8.33'	10.76'	7.56'	11'	2.65'	7.83'	14.58'	21.33'	28.08'
	54"	7'-8"	2.52'	9.44'	11.96'	8.56'	12'	2.83'	8.42'	16.08'	23.75'	31.42'
	60"	8'-6"	2.62'	10.56'	13.18'	9.56'	14'	3.00'	9.00'	17.50'	26.00'	34.50'
	66"	9'-2"	2.71'	11.68'	14.39'	10.56'	15'	3.18'	9.58'	18.75'	27.92'	37.08'
72"	10'-0"	2.80'	12.80'	15.60'	11.56'	16'	3.30'	10.16'	20.16'	30.16'	40.16'	
4:1 Slope	15"	2'-7"	2.27'	4.09'	6.36'	4.03'	8'	1.22'	4.63'	7.21'	9.79'	12.37'
	18"	2'-10"	2.36'	5.12'	7.48'	5.03'	9'	1.41'	4.92'	7.75'	10.58'	13.42'
	24"	3'-5"	2.53'	7.18' Δ	9.71'	7.03' Δ	11'	1.73'	5.50'	8.92'	12.33'	15.75'
	30"	4'-3"	2.70'	9.25'	11.95'	9.03'	13'	2.00'	6.08'	10.33'	14.58'	18.83'
	36"	5'-1"	2.87'	11.31' ◇	14.18'	11.03' ◇	15'	2.24'	6.67'	11.75'	16.83'	21.92'
	42"	6'-0"	3.05'	13.37'	16.42'	13.03'	17'	2.45'	7.25'	13.25'	19.25'	25.25'
	48"	6'-9"	3.22'	15.43'	18.65'	15.03'	19'	2.65'	7.83'	14.58'	21.33'	28.08'
	54"	7'-8"	3.39'	17.49'	20.88'	17.03'	21'	2.83'	8.42'	16.08'	23.75'	31.42'
	60"	8'-6"	3.56'	19.55'	23.11'	19.03'	23'	3.00'	9.00'	17.50'	26.00'	34.50'
	66"	9'-2"	3.73'	21.62'	25.35'	21.03'	25'	3.18'	9.58'	18.75'	27.92'	37.08'
72"	10'-0"	3.91'	22.68'	26.59'	23.03'	27'	3.30'	10.16'	20.16'	30.16'	40.16'	



TOP VIEW-SINGLE PIPE



TOP VIEW-MULTIPLE PIPE



SECTION

MANATEE COUNTY TRANSPORTATION DEPARTMENT			MITERED END SECTION FOR ROUND, SINGLE & MULTIPLE PIPES	102.2
REV. BY	DATE			
		6/12/07		
		DATE OF B.O.C.C. APPROVAL		

Technical drawing of a rectangular structure with a semi-circular end. The drawing includes the following dimensions and notes:

- Overall width: 4'
- Overall height: 3' (indicated by two 1.5' dimensions on the left side).
- Radius of the semi-circular end: 18" RAD.
- Vertical spacing between internal vertical lines: 1.5' SOD (Space On Demand).
- Note: MUST USE FORM BOARD (pointing to the right side of the structure).
- Section line A-A is indicated on both the left and right sides.

6" x 6" WIRE MESH

RCP

2"

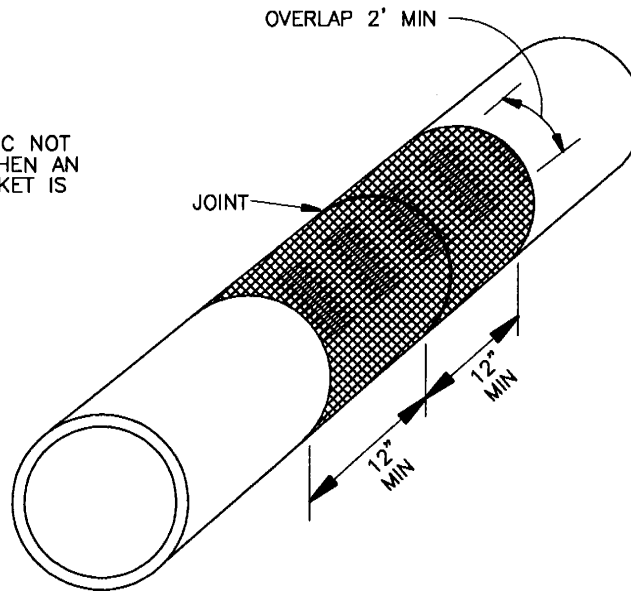
15"

15"

#5 REBAR

103.0

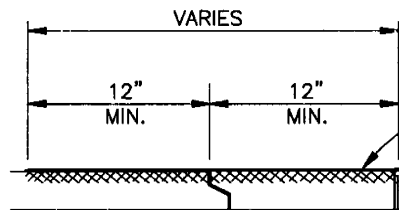
NOTE: FILTER FABRIC NOT
REQUIRED WHEN AN
O-RING GASKET IS
USED.



ISOMETRIC VIEW

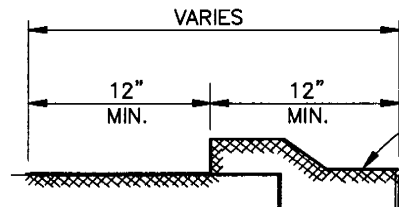
NOTE: FILTER FABRIC MATERIAL
MUST MEET THE FOLLOWING
ASTM REQUIREMENTS:

ASTM D 4595
ASTM D 4632
ASTM D 4533
ASTM D 4833
ASTM D 4491



BUTT JOINT

WOVEN OR NON-WOVEN
FILTER FABRIC
NOTE: NOT NECESSARY
WITH O-RING GASKET



BELL JOINT

WOVEN OR NON-WOVEN
FILTER FABRIC

MANATEE COUNTY

TRANSPORTATION DEPARTMENT

REV. BY	DATE

6/12/07

DATE OF B.O.C.C. APPROVAL

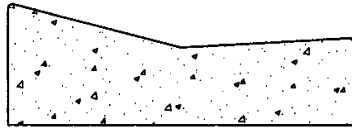
**FILTER FABRIC
JACKET**

104.0

CURB & GUTTER AND DRAINAGE STRUCTURES & PIPE INDEX

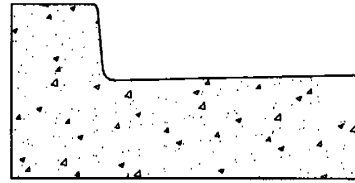
	<u>SHEET NO.</u>
200 CURB & GUTTER, DRAINAGE	200.0
A. CURB & GUTTER (CONTROL SHEET)	201.0
1. TYPE "A" MIAMI CURB & GUTTER	201.1
2. TYPE "F"	201.2
3. MODIFIED TYPE "AB"	201.3
4. TYPE "D"	201.4
5. INVERTED CROWN GUTTER	201.5
6. VALLEY CROSSING	201.6
B. DRAINAGE (CONTROL SHEET)	202.0
1. TYPICAL CONCRETE BLOCK BOX	202.1
2. CURB INLET	202.2
3. DROP INLET	202.3
4. NON TRAFFIC BEARING GRATE INLET	202.4
5. TRAFFIC BEARING GRATE INLET	202.5
6. ACCESS COVER FOR STORMWATER JUNCTION BOX (PRIVATE)	203.0
7. ACCESS COVER FOR STORMWATER JUNCTION BOX (PUBLIC)	203.1
8. ACCESS COVER FOR CATCH BASIN AND THROAT INLET (PUBLIC)	203.2
9. UNDERDRAIN GENERAL NOTES	204.0
10. UNDERDRAIN TYPICAL LAYOUT	204.1
11. UNDERDRAIN CLEANOUTS (FLEXIBLE & RIGID)	204.2
12. STORM SEWER PIPE – GENERAL NOTES	205.0
13. CONCRETE BLOCK HEADWALL	205.1

MANATEE COUNTY TRANSPORTATION DEPARTMENT		CURB & GUTTER, DRAINAGE STRUCTURES & PIPE INDEX	200.0
REV. BY	DATE		
6/12/07 DATE OF B.O.C.C. APPROVAL			



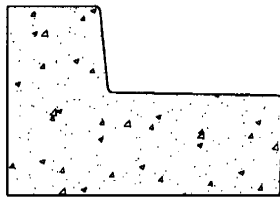
TYPE "A"
MIAMI CURB & GUTTER
STD. 201.1

STD. 201.1



TYPE "F"
CURB & GUTTER

STD. 201.2



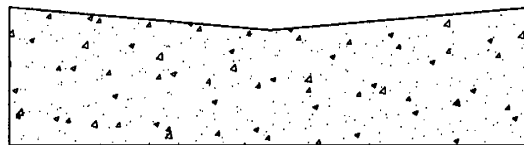
TYPE "AB"
MODIFIED CURB & GUTTER

STD. 201.3



TYPE "D"
CURB

STD. 201.4



INVERTED CROWN
CURB & GUTTER

STD. 201.5

1. ALL CURB & GUTTER SHALL PROVIDE A 0.125" TO 0.25" CONTRACTION JOINT AT 10' CENTERS.
2. ALL CURB & GUTTER SHALL BE CONSTRUCTED IN COMPLIANCE WITH FLORIDA D.O.T. STANDARD SPECIFICATIONS PER F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX NO. 300, LATEST REVISION.
3. TOP OF FINISHED PAVEMENT SHALL BE 0.25" ABOVE LIP OF GUTTER, LOW SIDE.

2. ALL CURB & GUTTER SHALL BE CONSTRUCTED IN COMPLIANCE WITH FLORIDA D.O.T. STANDARD SPECIFICATIONS PER F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX NO. 300, LATEST REVISION.

3. TOP OF FINISHED PAVEMENT SHALL BE 0.25" ABOVE LIP OF GUTTER, LOW SIDE.

MANATEE COUNTY

TRANSPORTATION DEPARTMENT

REV.BY	DATE
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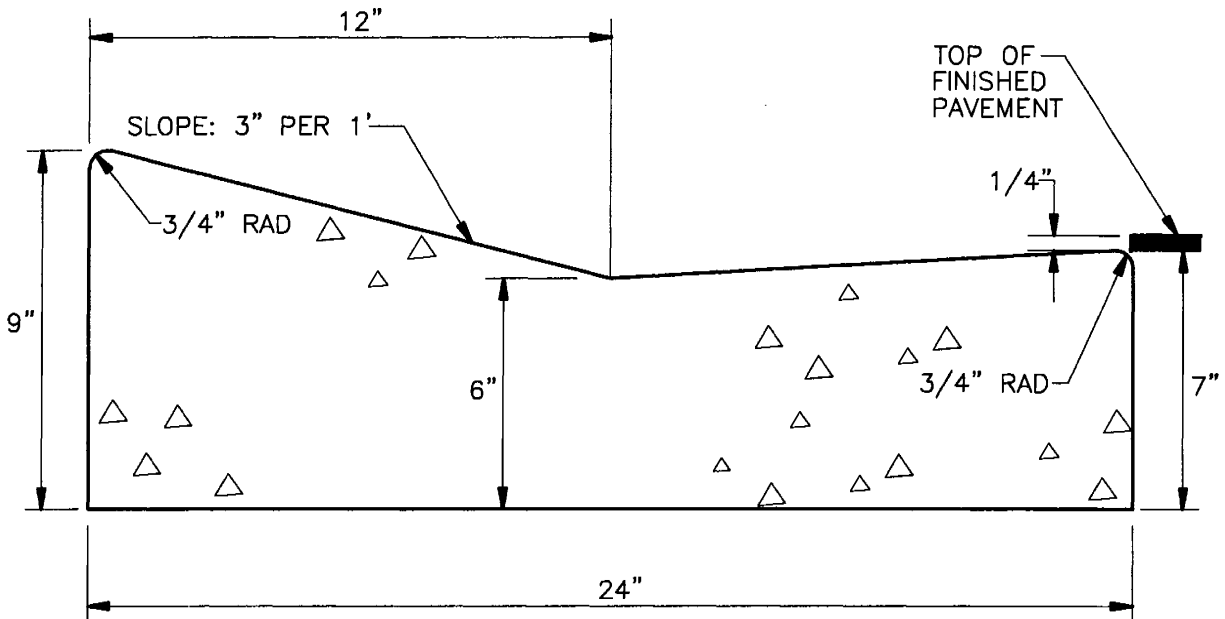
6/12/07

DATE OF B.O.C.C. APPROVAL _____

CURB & GUTTER CONTROL SHEET

CONTROL SHEET

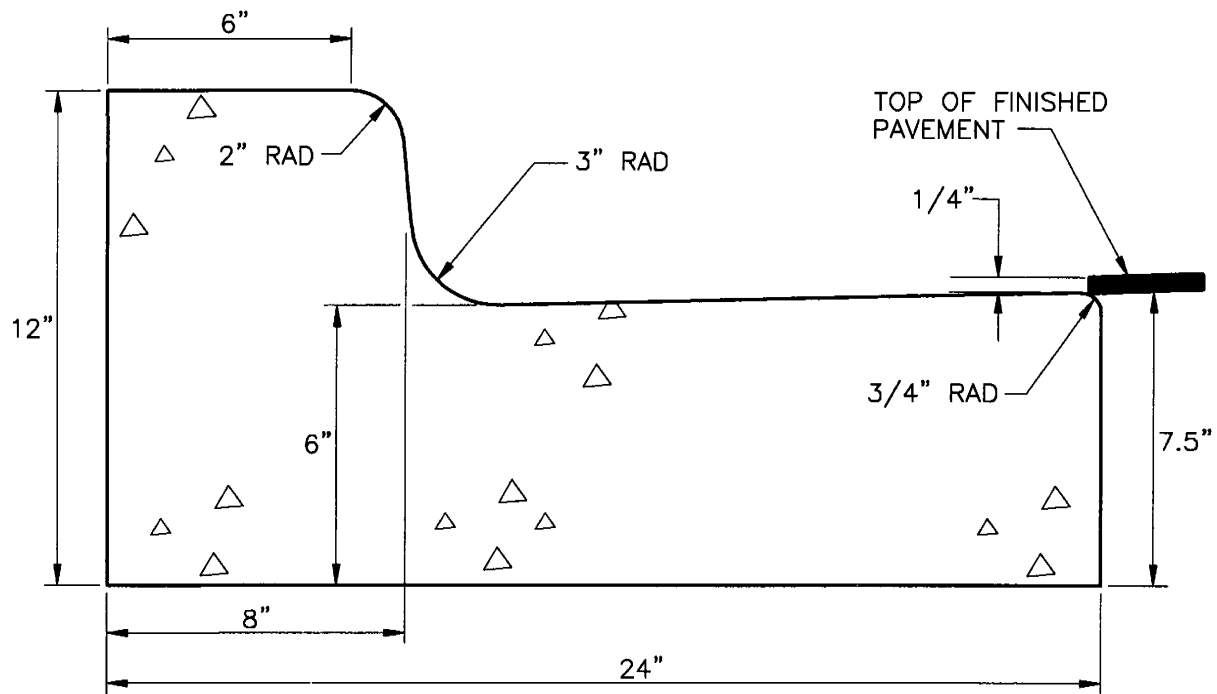
201.0



TYPE "A"
MIAMI CURB & GUTTER

- A) CLASS 1 CONCRETE 3,000 P.S.I. AT 28 DAYS.
- B) CURB AND GUTTER SHALL MEET THE SPECIFICATIONS ESTABLISHED BY FLORIDA D.O.T. STANDARD SPECIFICATIONS PER F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX NO. 300, LATEST REVISION.

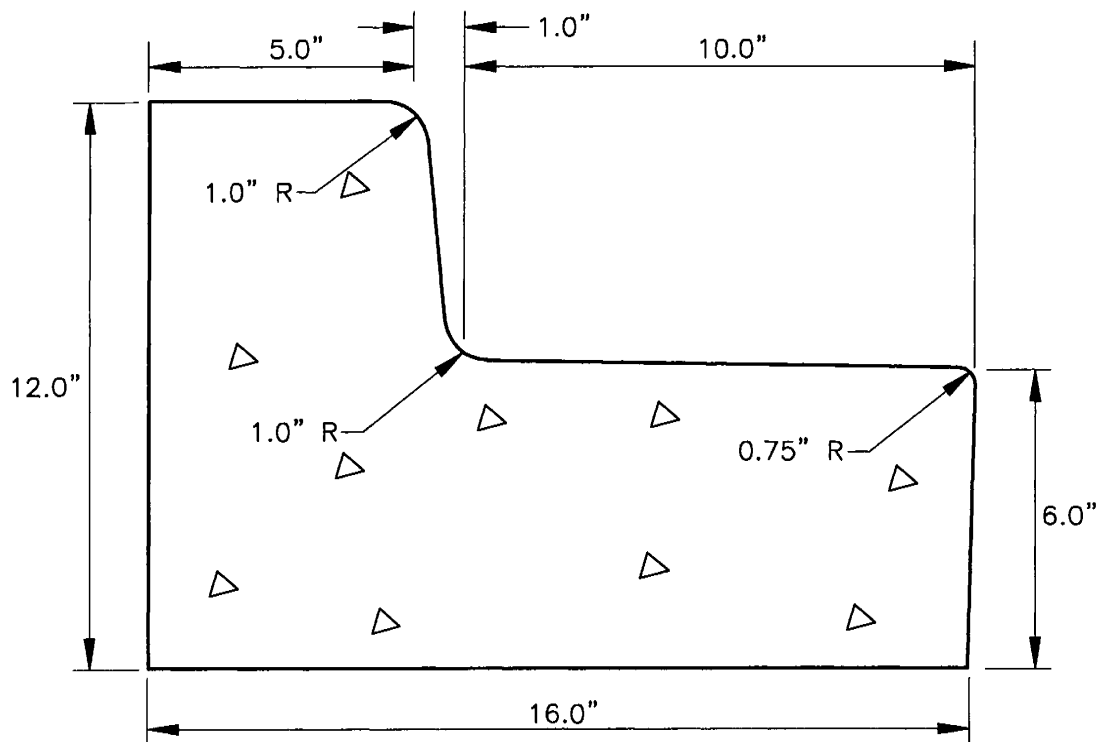
MANATEE COUNTY TRANSPORTATION DEPARTMENT			TYPE A MIAMI CURB & GUTTER	201.1
REV. BY	DATE	6/12/07 DATE OF B.O.C.C. APPROVAL		



TYPE "F" BARRIER CURB & GUTTER

- A) CLASS 1 CONCRETE 3,000 P.S.I. AT 28 DAYS.
- B) CURB AND GUTTER SHALL MEET THE SPECIFICATIONS ESTABLISHED BY FLORIDA D.O.T. STANDARD SPECIFICATIONS PER F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX NO. 300, LATEST REVISION.

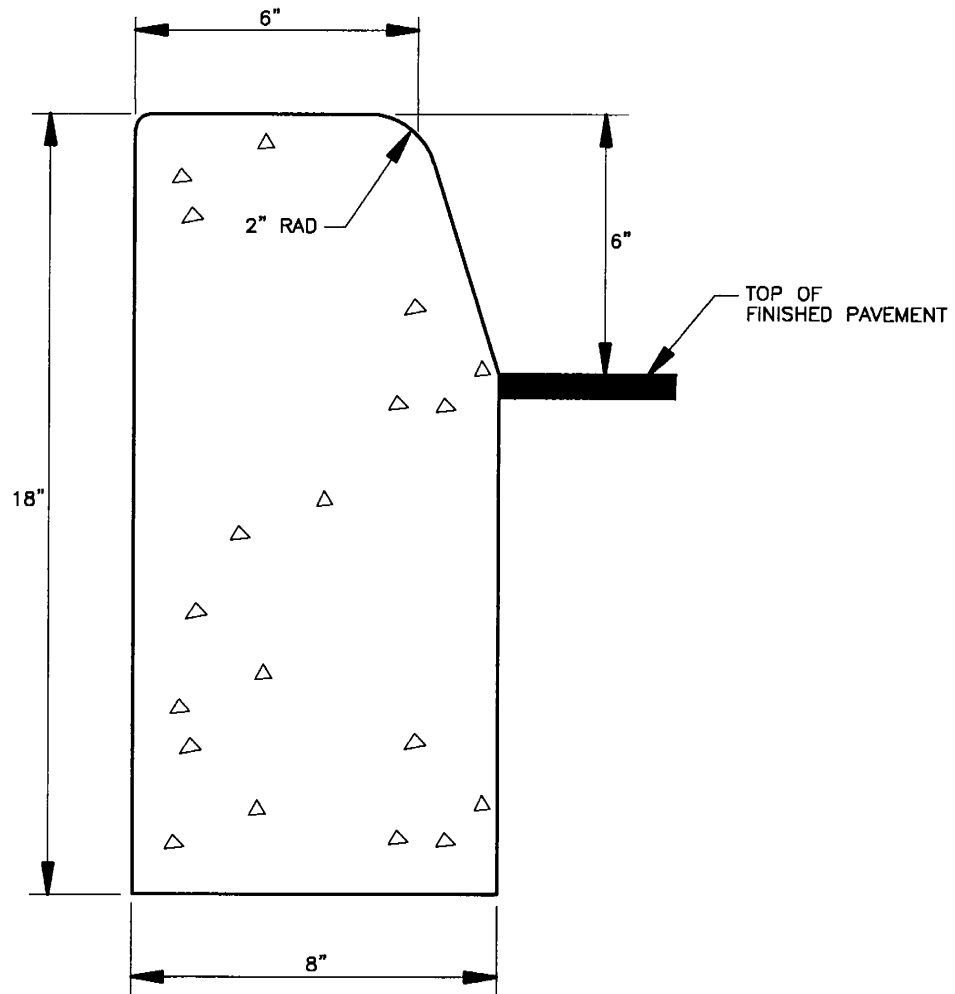
MANATEE COUNTY TRANSPORTATION DEPARTMENT			TYPE F CURB & GUTTER	201.2
REV. BY	DATE	<div>6/12/07</div> <div>DATE OF B.O.C.C. APPROVAL</div>		



TYPE "AB"
MODIFIED CURB & GUTTER

- A) CLASS 1 CONCRETE 3,000 PSI AT 28 DAYS.
- B) CURB AND GUTTER SHALL MEET THE SPECIFICATIONS ESTABLISHED BY FLORIDA D.O.T. STANDARD SPECIFICATIONS PER F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS STANDARDS INDEX NO. 300, LATEST REVISION.

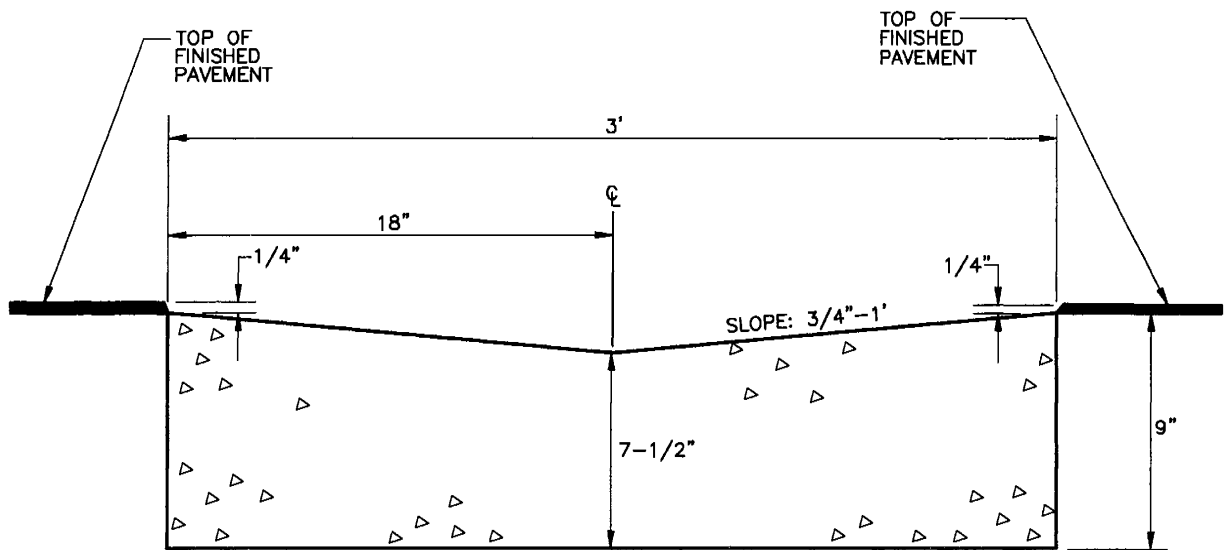
MANATEE COUNTY			TYPE "AB" MODIFIED CURB & GUTTER	201.3
TRANSPORTATION DEPARTMENT				
REV.BY	DATE	<div>6/12/07</div> <div>DATE OF B.O.C.C. APPROVAL</div>		



TYPE "D"
HIGH BACK CURB

- A) CLASS 1 CONCRETE, 3,000 P.S.I. AT 28 DAYS.
- B) CURB SHALL MEET THE SPECIFICATIONS ESTABLISHED BY F.D.O.T. STANDARD SPECIFICATIONS PER F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX NO. 300, LATEST REVISION.

MANATEE COUNTY			TYPE D CURB	201.4
TRANSPORTATION DEPARTMENT				
REV. BY	DATE	<div>6/12/07</div> <div>DATE OF B.O.C.C. APPROVAL</div>		

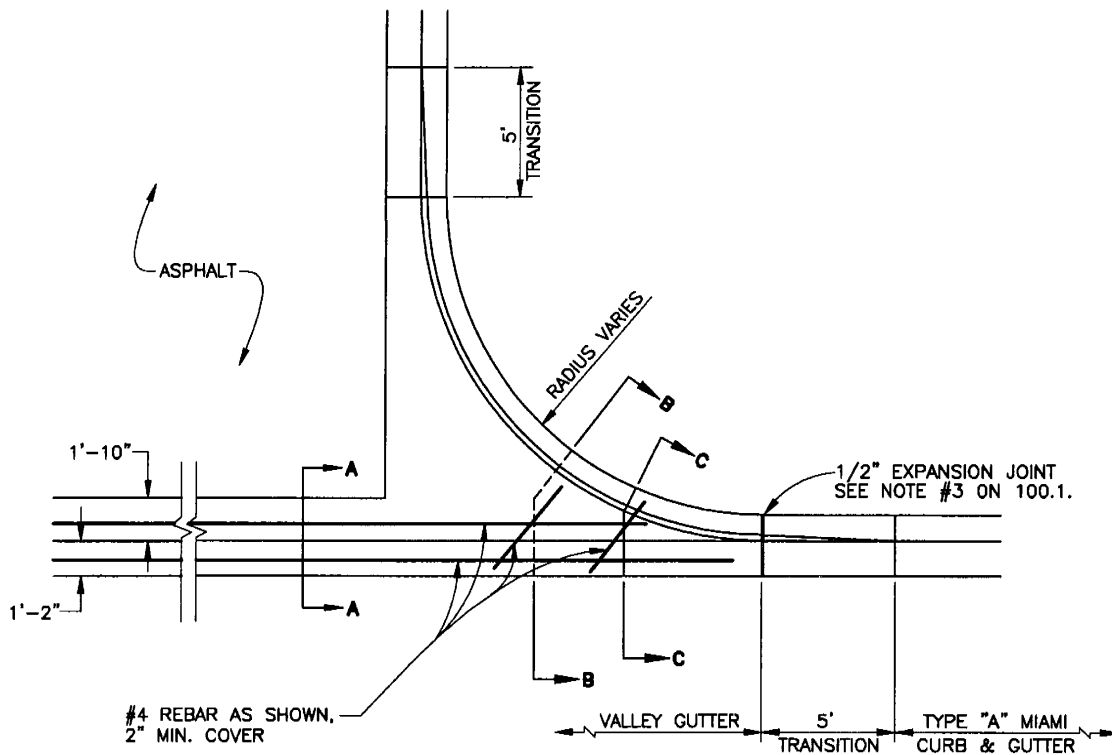


INVERTED CROWN GUTTER

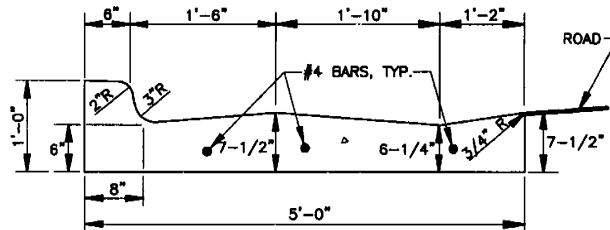
- A) CLASS 1 CONCRETE, 3,000 P.S.I. AT 28 DAYS.
- B) CURB SHALL MEET SPECIFICATIONS ESTABLISHED BY FLORIDA D.O.T. STANDARD SPECIFICATIONS, PER F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS INDEX NO. 300, LATEST REVISION.
- C) SEE SHEET 401.9 FOR INVERTED CROWN APPLICATION.

NOTE: THIS TYPICAL SECTION SHALL BE CONSIDERED FOR PRIVATE ROAD USAGE ONLY! IT MUST BE APPROVED THRU THE PLANNING & TRANSPORTATION DEPARTMENTS, JOINTLY.

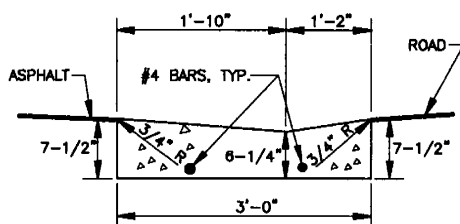
MANATEE COUNTY TRANSPORTATION DEPARTMENT			INVERTED CROWN	201.5
REV. BY	DATE	6/12/07 DATE OF B.O.C.C. APPROVAL		



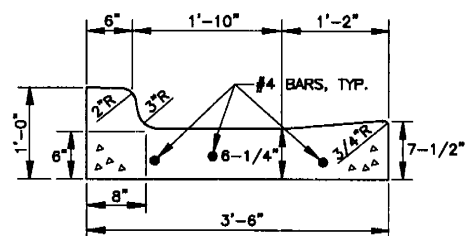
PLAN VIEW



SECTION "B-B"



SECTION "A-A"



SECTION "C-C"

3' VALLEY CROSSING

* CLASS 1 CONCRETE, 3,000 P.S.I. AT 28 DAYS.

MANATEE COUNTY TRANSPORTATION DEPARTMENT			VALLEY CROSSING	201.6
REV. BY	DATE			
		6/12/07		
		DATE OF B.O.C.C. APPROVAL		

GENERAL NOTES

1. ALL REFERENCED STANDARDS SHALL BE LATEST REVISION.
2. CONCRETE SHALL BE CLASS "1" AS SPECIFIED IN SECTION 345 OF F.D.O.T. SPECIFICATIONS
3. SEE SECTION 425-2.2 "MORTAR" OF FLORIDA D.O.T. SPECIFICATIONS.
4. IRON CASTING SHALL BE AS SPECIFIED IN SECTION 962-8 OF F.D.O.T. SPECIFICATIONS. SEE SECTION 425-5.
5. ALL REINFORCEMENT STEEL SHALL BE AS SPECIFIED IN SECTIONS 415 & 931.1 OF F.D.O.T. SPECIFICATIONS.
6. SEE FLORIDA D.O.T. SPECIFICATIONS FOR GRATINGS.
7. SEE FLORIDA D.O.T. SPECIFICATIONS FOR SECTION 125 "EXCAVATION FOR STRUCTURES."
8. PRECAST TOP AND BOTTOM TO BE F.D.O.T. STANDARDS WITH MINIMUM TRAFFIC BEARING 8" THICKNESS.
9. ALL STORMWATER PIPE SHALL BE INSTALLED BEHIND THE CURB OR EDGE OF PAVEMENT AND WITHIN THE RIGHT OF WAY AND WITHIN THE DRAINAGE EASEMENTS.
10. THE FOLLOWING IS THE DRAINAGE STRUCTURE WALL MINIMUM THICKNESS:

PRECAST

NON-TRAFFIC 6"

BLOCK

8" EITHER WAY

NOTE: FOR DRAINAGE STRUCTURES WITH PIPE DIAMETERS UP TO AND INCLUDING 24".
6" PRECAST WALLS ARE ACCEPTABLE FOR TRAFFIC BEARING.

DIMENSION INDEX

PIPE SIZE	TYPE	"C"	"D"	"E"	"F"	"G"	"H"
15"	RCP	2'8"	4'	5'	4'	5'4"	6'4"
12"x18"	RCP	"	"	"	"	"	"
18"	RCP	"	"	"	"	"	"
14"x23"	RCP	"	"	"	"	"	"
24"	RCP	3'4"	4'8"	5'8"	"	"	"
19"x30"	RCP	4'	5'4"	6'4"	"	"	"
30"	RCP	"	"	"	"	"	"
24"x38"	RCP	5'	6'4"	7'4"	"	"	"
36"	RCP	5'	6'4"	"	"	"	"
66"	RCP	8'5"	9'9"	10'9"	4'8"	6'0"	7'0"

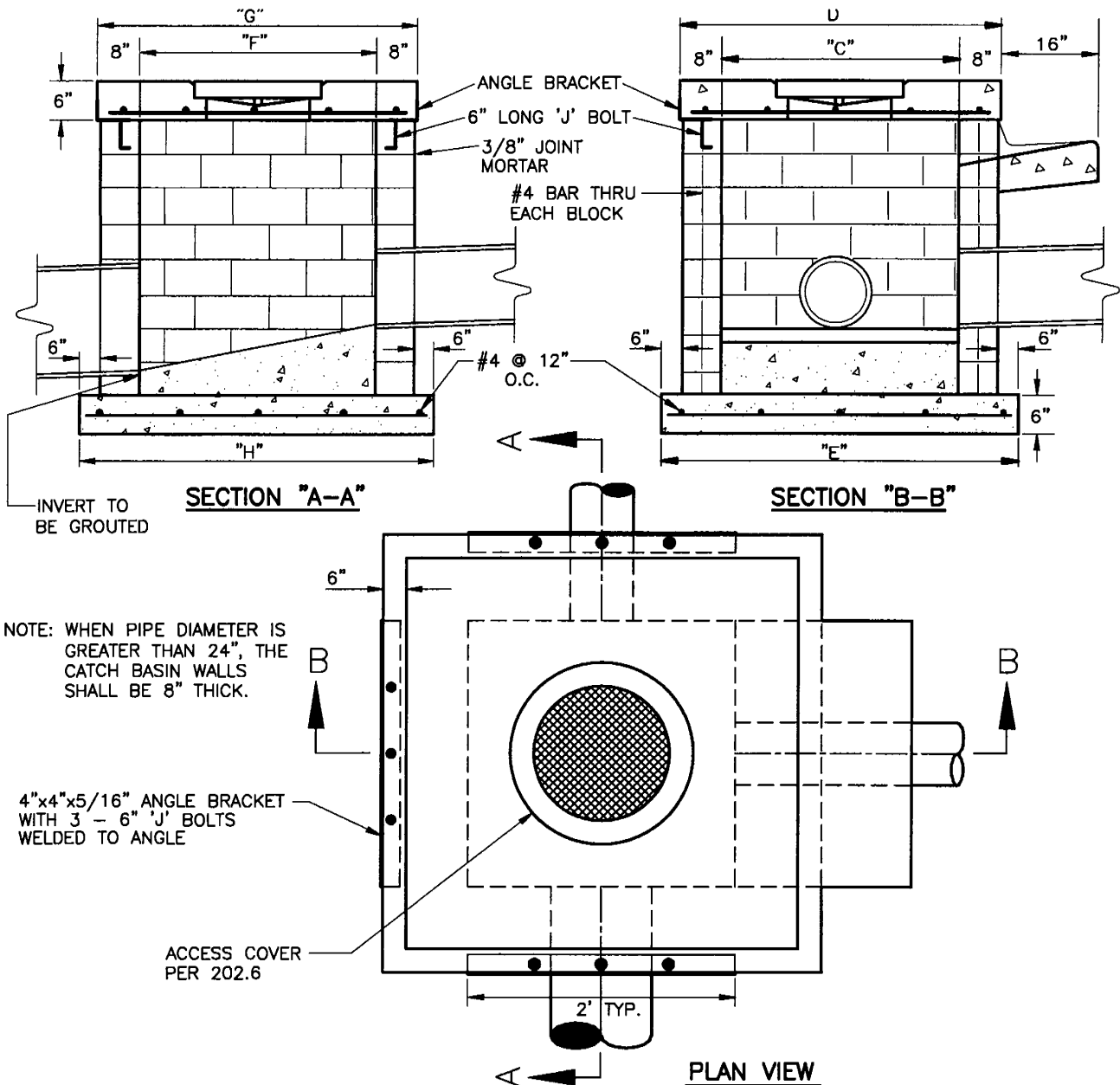
MANATEE COUNTY
TRANSPORTATION DEPARTMENT

REV. BY	DATE

6/12/07
DATE OF B.O.C.C. APPROVAL

**DRAINAGE
CONTROL SHEET**

202.0



NOTE: DIMENSIONS PER SECTION 202.0

- A) THE FOLLOWING MATERIALS TO BE AS SPECIFIED IN THE FLORIDA D.O.T. SPEC'S. 1991, SECTION 346 CONCRETE, SECT. 962-8 IRON CASTING, SECT. 931-1 REINFORCEMENT STEEL, SECT. 425 INLETS, MANHOLES & JUNCTION BOXES.
- B) FILL BLOCKS WITH 3,000 psi CONCRETE, USE #4 ROD IN EACH BLOCK, 16" O/C.
- C) 2" MINIMUM COVER ON ALL REBAR.
- D) USE #4 REBARS ON 6" CENTERS BOTH WAYS ON LID; NO.4 REBARS ON 12" CENTERS BOTH WAYS ON FLOOR SLAB.
- E) SEE SHEET 202.0 FOR GENERAL NOTES AND DIMENSION INDEX.
- F) ALL EXPOSED CORNERS AND EDGES TO BE CHAMFERED 3/4".
- G) PRECAST BOXES AS SPECIFIED IN F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS (2000) ARE AN ACCEPTABLE ALTERNATIVE AS APPROVED BY THE TRANSPORTATION DIRECTOR OR HIS DESIGNEE.
- H) ALL PIPE ENTRIES TO CATCH BASIN TO BE GROUTED AND SEALED.

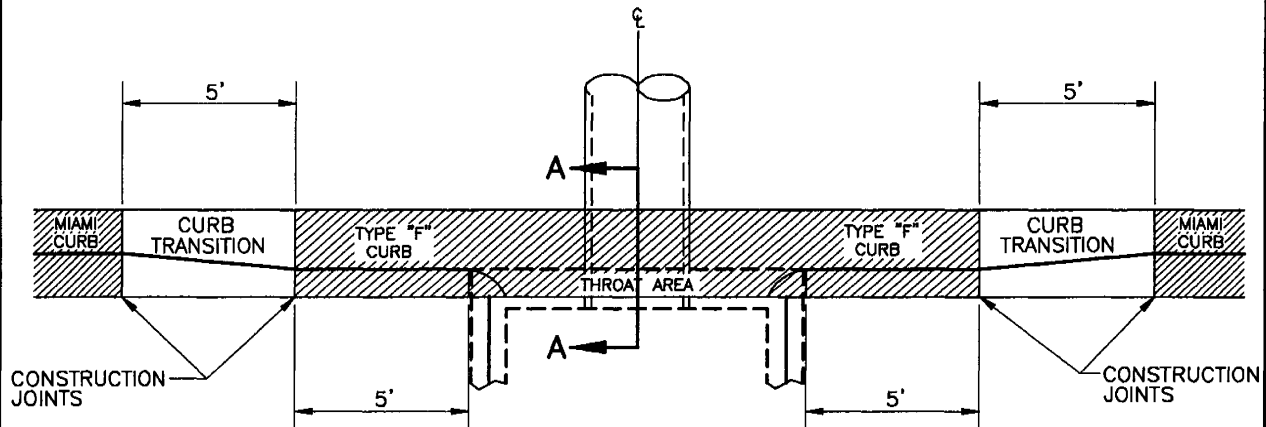
MANATEE COUNTY
TRANSPORTATION DEPARTMENT

REV. BY	DATE

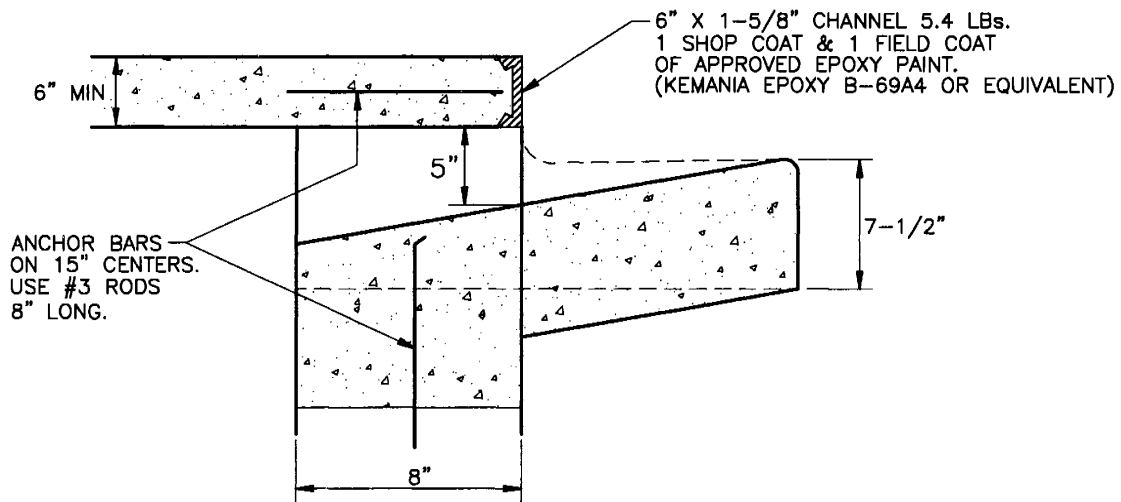
6/12/07

**TYPICAL CONC.
BLOCK BOX**

202.1



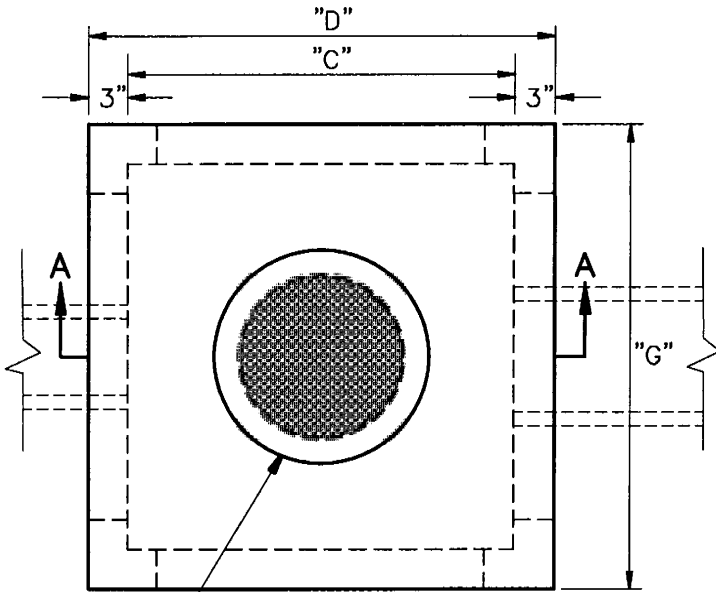
PLAN VIEW



SECTION A-A

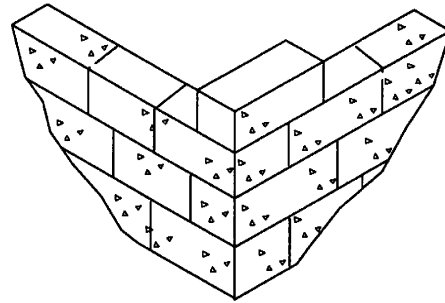
- A) USE STANDARD CATCH BASIN & JUNCTION BOX DIMENSION INDEX (SHEET # 202.0) DETAILS AND COVER (SHEET # 202.6).
- B) SEE CURB & GUTTER INDEX (SHEET # 201.0) FOR APPLICABLE CURB TYPE.
- C) SEE SHEET # 202.0 "GENERAL NOTES" FOR APPLICABLE INFORMATION.
- D) PRECAST BOXES AS SPECIFIED IN F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS (2006) ARE AN ACCEPTABLE ALTERNATIVE AS APPROVED BY THE DIRECTOR OR HIS DESIGNEE.
- E) ANGLE BRACKETS SHOWN ON 202.1 NOT REQUIRED.

MANATEE COUNTY TRANSPORTATION DEPARTMENT			CURB INLET	202.2
REV.BY	DATE			
		6/12/07		
		DATE OF B.O.C.C. APPROVAL		

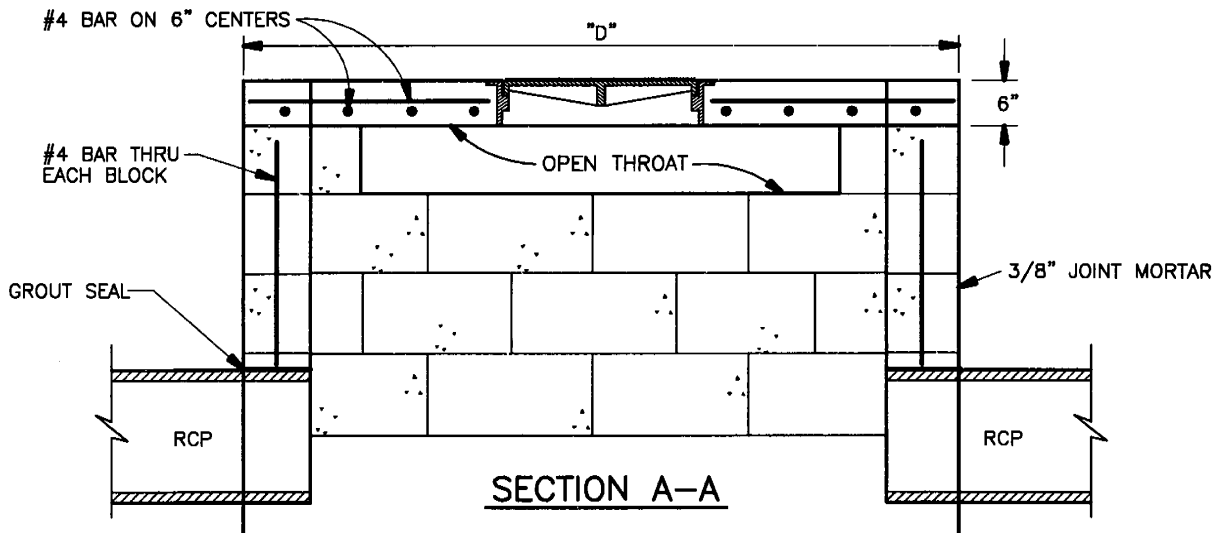


ACCESS COVER
PER 202.6

PLAN VIEW



CORNER VIEW



SECTION A-A

- A) DROP INLET IS NOT DESIGNED TO BE SUBJECTED TO VEHICULAR TRAFFIC.
- B) NUMBER OF SIDES OPEN FOR DRAINAGE DEPENDS UPON FLOW VOLUME REQUIREMENTS.
- C) THE FOLLOWING MATERIALS SHALL BE AS SPECIFIED IN FLORIDA D.O.T. SPEC'S., 2000. SEC 346 CONCRETE, SEC 962-8 IRON CASTING, SEC 931-1 REINFORCED STEEL.
- D) FILL BLOCKS WITH 3,000 P.S.I. CONCRETE (EACH CELL), USE #4 ROD IN EACH BLOCK, 16" O/C.
- E) USE #4 ROD ON 6" CENTERS BOTH WAYS ON LID.
- F) SEE SHEET # 202.0 GENERAL NOTES AND DIMENSIONS INDEX, ALSO SHEET 202.1 TYP. CONC. BOX.
- G) PRECAST BOXES TO F.D.O.T. SPECIFICATIONS ARE AN ACCEPTABLE ALTERNATE.
- H) INVERT TO BE GROUTED (SEE 202.1).
- I) PRECAST BOXES AS SPECIFIED IN F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS ARE AN ACCEPTABLE ALTERNATIVE AS APPROVED BY THE TRANSPORTATION DIRECTOR OR HIS DESIGNEE.
- J) ANGLE BRACKETS SHOWN ON 202.1 NOT REQUIRED.

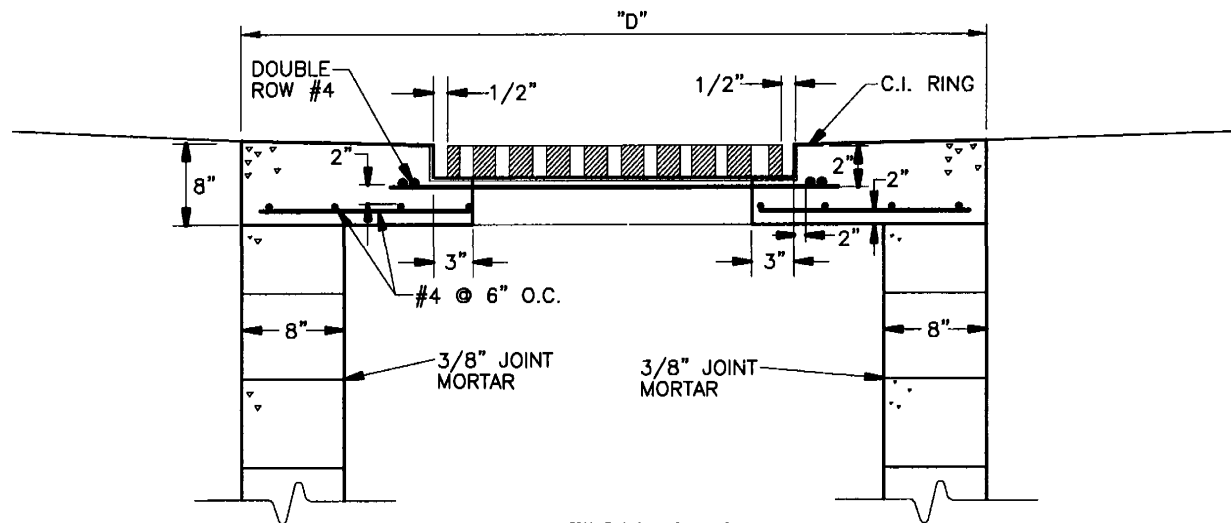
MANATEE COUNTY
TRANSPORTATION DEPARTMENT

REV.BY	DATE

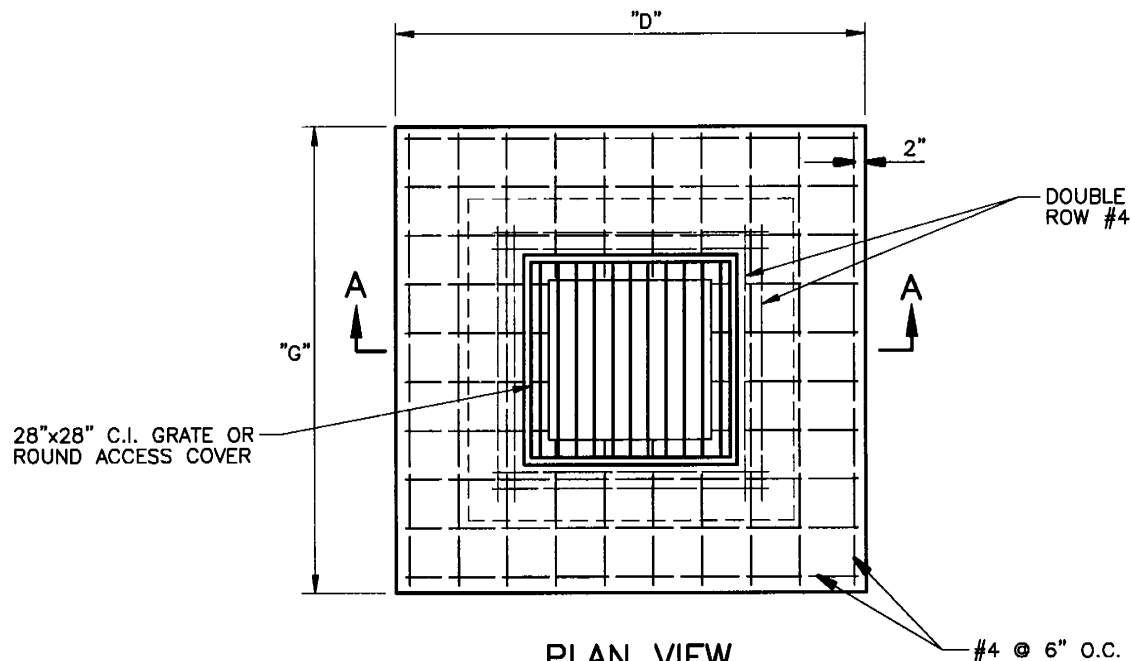
6/12/07
DATE OF B.O.C.C. APPROVAL

**THROAT DETAIL
FOR DROP INLET**

202.3



SECTION A-A



PLAN VIEW

NOTE: DIMENSIONS "D" & "G" PER SECTION 202.0

- A) ALTERNATE C.I. GRATES, 18"x 24", 24"x 24", 28"x 36" OR ACCESS COVER (202.6).
- B) 8" TRAFFIC BEARING LID W/ REINFORCING C.I. RING & DOUBLE ROW OF #4 REBAR.
- C) FOLLOWING MATERIALS ARE SPECIFIED IN FLORIDA D.O.T. SPEC'S., 2000. SEC 346 CONCRETE, SEC 962-8 IRON CASTING, SEC 931-1 REINFORCED STEEL.
- D) FILL BLOCKS WITH 3,000 P.S.I. CONCRETE (EACH CELL), USE #4 ROD IN EACH BLOCK, 16" O/C.
- E) USE #4 ROD ON 6" CENTERS BOTH WAYS ON LID. (SEE 202.3 E)
- F) SEE SHEET # 202.0 GENERAL NOTES AND DIMENSIONS INDEX, ALSO SHEET 202.1 TYP. CONC. BOX.
- G) INVERT TO BE GROUTED (SEE 202.1).
- H) PRECAST BOXES AS SPECIFIED IN F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS ARE AN ACCEPTABLE ALTERNATIVE AS APPROVED BY THE TRANSPORTATION DIRECTOR OR HIS DESIGNEE.
- I) ANGLE BRACKETS SHOWN ON 202.1 NOT REQUIRED.

MANATEE COUNTY
TRANSPORTATION DEPARTMENT

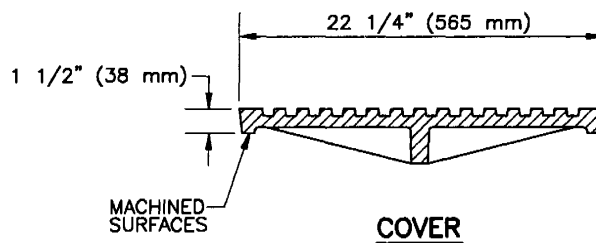
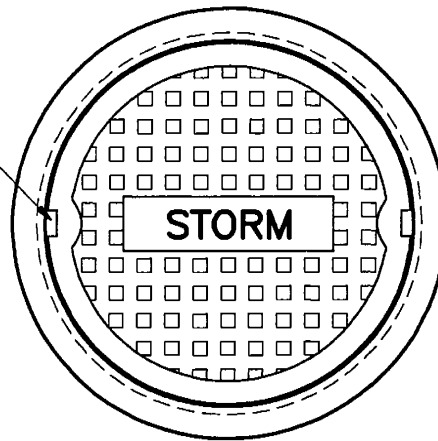
REV. BY	DATE

6/12/07

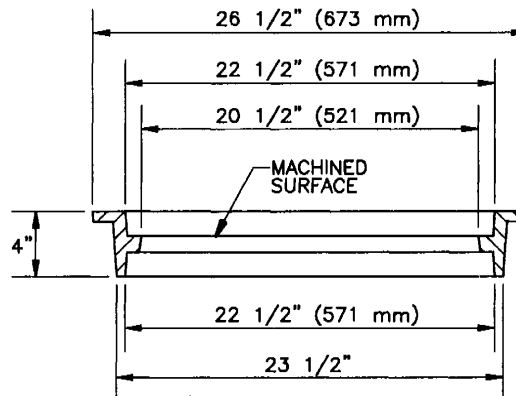
**TRAFFIC BEARING
BOX LID**

202.5

(2) NON-PENETRATING PICKHOLES



COVER



RING

USF 1110 RING & PROPOSED COVER

NOTE:

- 1 - MATERIAL: ASTM-A48 CLASS 30B GRAY IRON.
- 2 - COVER WEIGHT: 105 LBS. APPROX.
- 3 - RING WEIGHT: 90 LBS. APPROX.

MANATEE COUNTY
TRANSPORTATION DEPARTMENT

REV. BY	DATE

6/12/07
DATE OF B.O.C.C. APPROVAL

**ACCESS COVER
FOR STORMWATER
JUNCTION BOX
(PRIVATE)**

203.0

(2) NON-PENETRATING PICKHOLES

The diagram shows a circular storm drain cover with a grid of square holes. The cover is labeled 'MANATEE COUNTY' at the top, 'STORM' in the center, and 'YEAR' at the bottom. A dashed line indicates a crack in the cover material, which is labeled 'NON-PENETRATING PICKHOLES' with a line pointing to it.

1 1/2" (38 mm)

22 1/4" (565 mm)

MACHINED SURFACES

COVER

26 1/2" (673 mm)

22 1/2" (571 mm)

20 1/2" (521 mm)

MACHINED SURFACE

4"

22 1/2" (571 mm)

23 1/2"

RING

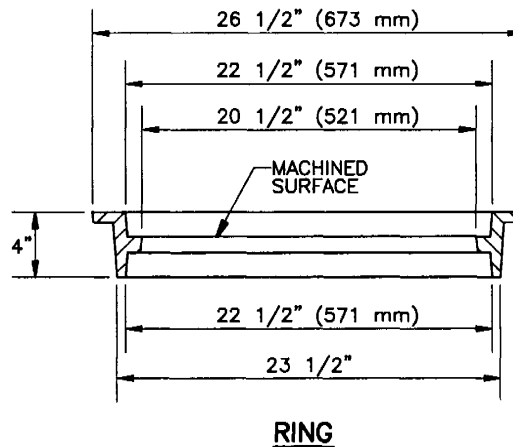
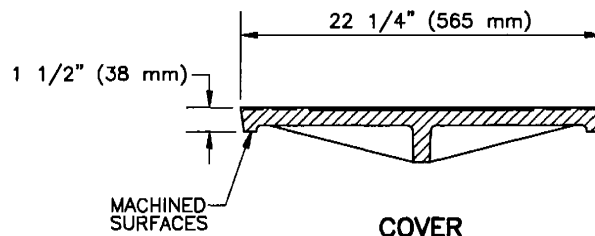
USF 1110 RING & PROPOSED COVER

NOTE:

- 1 - MATERIAL; ASTM-A48 CLASS 30B GRAY IRON.
- 2 - COVER WEIGHT: 105 LBS. APPROX.
- 3 - RING WEIGHT: 90 LBS. APPROX.

MANATEE COUNTY TRANSPORTATION DEPARTMENT			ACCESS COVER FOR STORMWATER JUNCTION BOX (PUBLIC)	203.1
REV.BY	DATE	6/12/07 DATE OF B.O.C.C. APPROVAL		

(2) NON-PENETRATING PICKHOLES



USF 1110 RING & PROPOSED COVER

NOTE:

- 1 - MATERIAL; ASTM-A48 CLASS 30B GRAY IRON.
- 2 - COVER WEIGHT: 105 LBS. APPROX.
- 3 - RING WEIGHT: 90 LBS. APPROX.

MANATEE COUNTY
TRANSPORTATION DEPARTMENT

REV. BY	DATE

6/12/07
DATE OF B.O.C.C. APPROVAL

**ACCESS COVER
FOR CATCH BASIN
& THROAT INLET
(PUBLIC)**

203.2

UNDERDRAIN

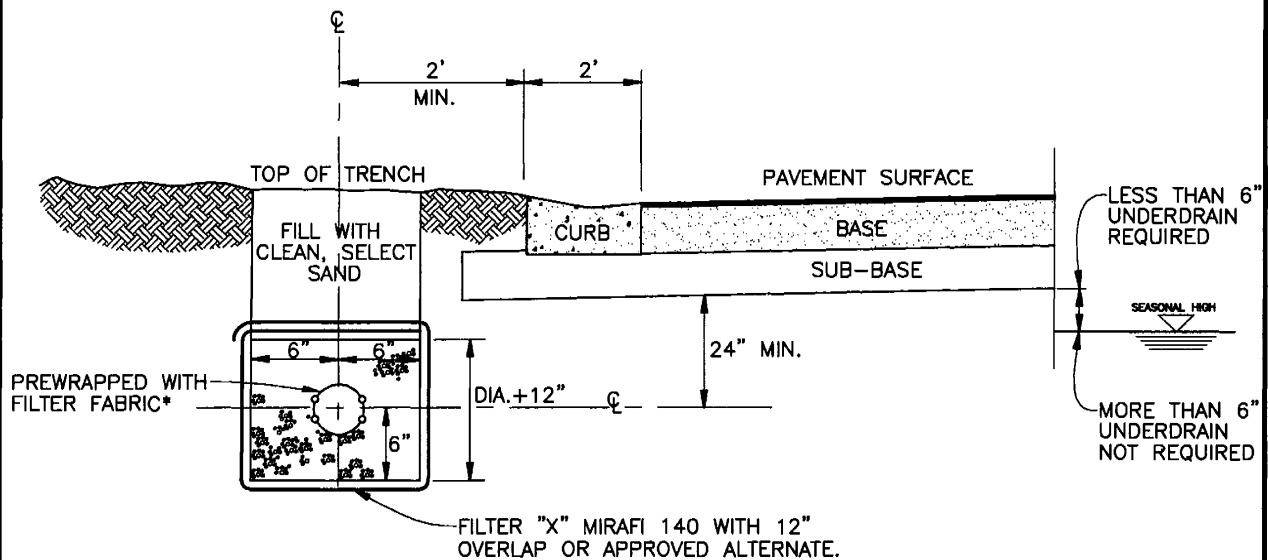
1. CORRUGATED POLYETHYLENE TUBING

CORRUGATED POLYETHYLENE TUBING WITH A FILTER FABRIC WRAP, UNLESS OTHERWISE NOTED, MAY BE USED FOR UNDERDRAIN APPLICATIONS ASSOCIATED WITH ROADWAY CONSTRUCTION PROVIDING THE FOLLOWING SPECIFICATIONS ARE MET:

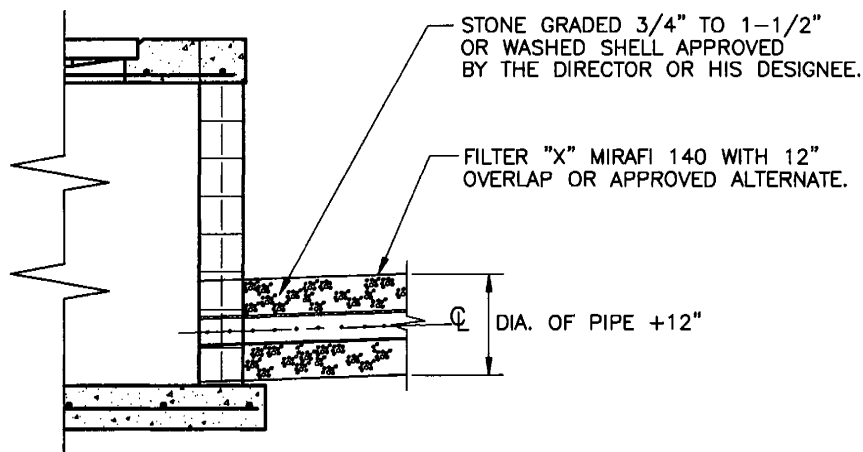
- A) THE CORRUGATED POLYETHYLENE TUBING SHALL MEET THE REQUIREMENTS OF ASTM F-405.
- B) THE CORRUGATED POLYETHYLENE TUBING SHALL HAVE A FILTER FABRIC SOCK MEETING F.D.O.T. SPEC. 948-3, LATEST REVISION. IF PERFORATIONS IN PIPE ARE LESS THAN 3/4", THEN FILTER FABRIC SOCK MAY BE OMITTED.
- C) THE ENVELOPE MATERIAL SURROUNDING THE TUBING SHALL BE CRUSHED STONE OR WASHED SHELL. THE THICKNESS OF THE ENVELOPE MATERIAL SHALL BE EQUAL TO OR GREATER THAN THE DIAMETER OF THE TUBING, PLUS 12".
- D) CORRUGATED POLYETHYLENE TUBING SHALL NOT BE ACCEPTABLE UNDER ROADWAYS.
- E) EXTRA CARE SHALL BE TAKEN DURING PLACEMENT TO MAINTAIN PROPER LINE AND GRADE, TO BE PLACED W/ SLOPE OF ROAD.
- F) A CLEAN-OUT SHALL BE CONSTRUCTED AT THE END OF EACH RUN OF UNDER-DRAIN. MAXIMUM SPACING EVERY 100 FEET.
- G) SOD 3' AROUND 18" CONC. SQUARE.

*NOTE: TRANSPORTATION DIRECTOR OR HIS DESIGNEE'S APPROVAL IS REQUIRED FOR THE USE OF FLEXIBLE UNDERDRAIN PIPE.

MANATEE COUNTY TRANSPORTATION DEPARTMENT		UNDERDRAIN GENERAL NOTES	204.0
REV. BY	DATE		
6/12/07 DATE OF B.O.C.C. APPROVAL			



UNDERDRAIN PLACEMENT

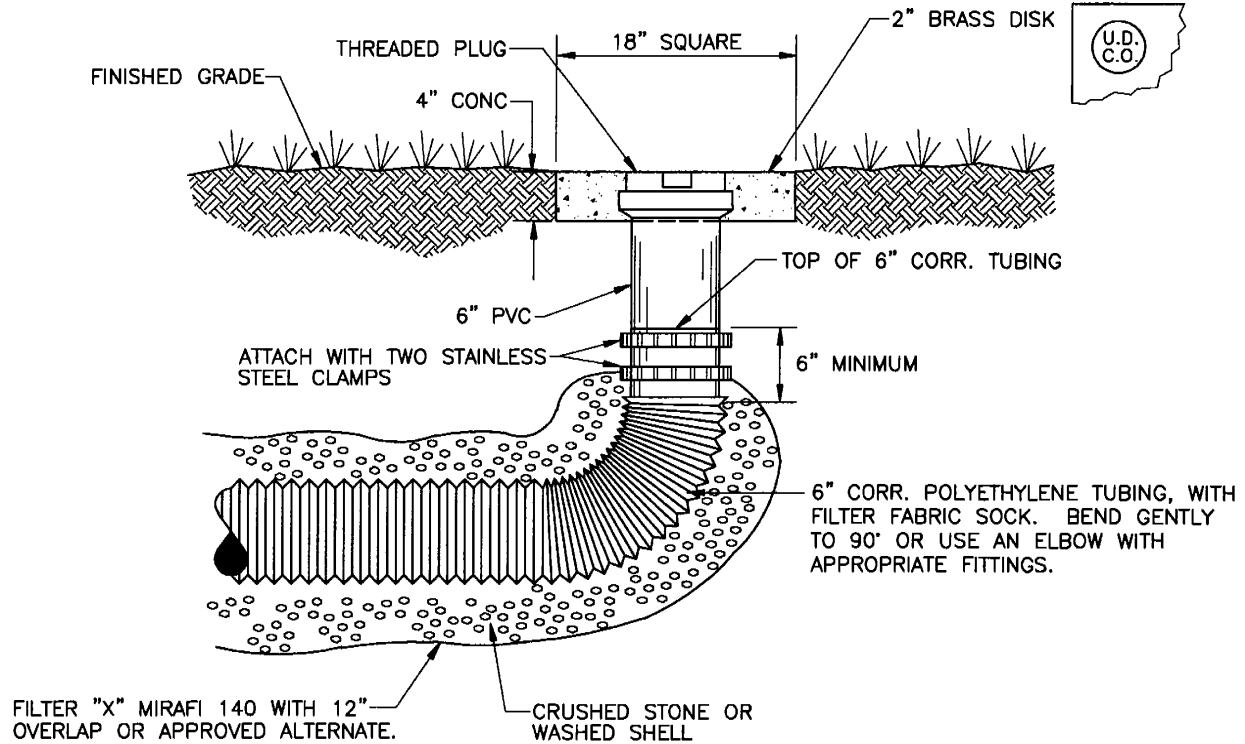


UNDERDRAIN TIE TO INLET

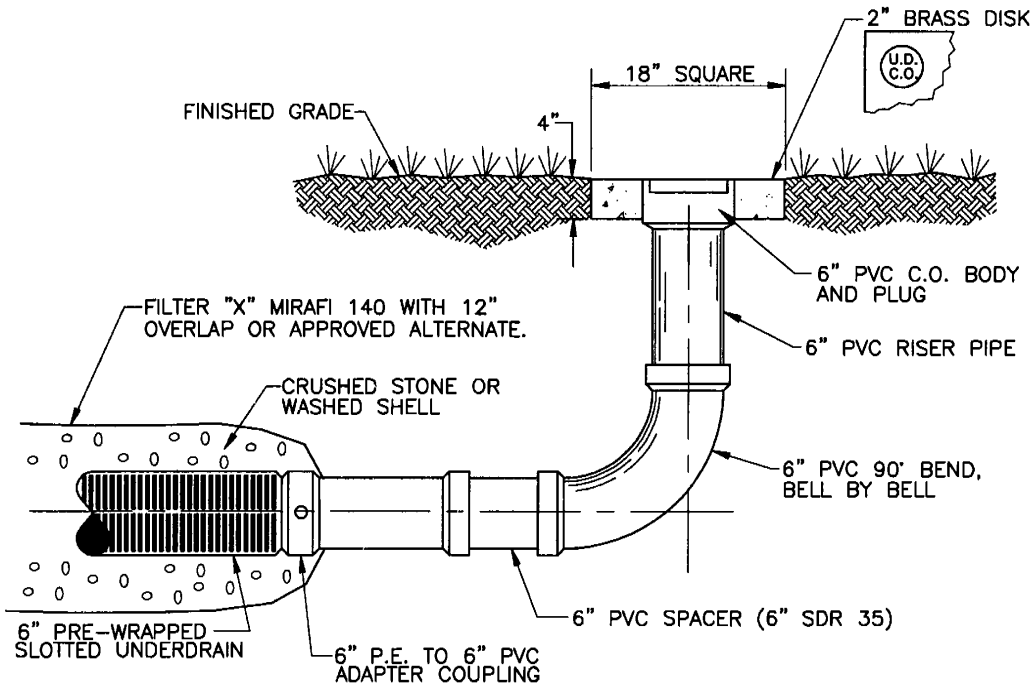
- A) LOCATION OR NEED FOR UNDERDRAIN TO BE APPROVED BY THE DIRECTOR OR HIS DESIGNEE.
- B) UNDERDRAIN SHALL BE AS SPECIFIED IN SECTION 440 OF FLORIDA DEPT. OF TRANSPORTATION SPEC. (2000 OR LATEST REVISION).
- C) 6" TO 8" PERFORATED PIPE AS REQUIRED.
- D) BACKFILL WITH CLEAN, SELECT SAND TO LINES SHOWN ON PLANS.

* IF PIPE PERFORATIONS ARE SMALLER THAN 3/4", THEN FILTER FABRIC SOCK MAY OMITTED.

MANATEE COUNTY TRANSPORTATION DEPARTMENT			TYPICAL UNDERDRAIN LAYOUT	204.1
REV. BY	DATE			
		6/12/07		
		DATE OF B.O.C.C. APPROVAL		



UNDERDRAIN CLEAN-OUT DETAIL CORRUGATED POLYETHYLENE TUBING



UNDERDRAIN CLEAN-OUT DETAIL -- RIGID

* MAXIMUM SPACING EVERY 100 FEET.

MANATEE COUNTY TRANSPORTATION DEPARTMENT			UNDERDRAIN CLEAN-OUTS (FLEXIBLE & RIGID)	204.2
REV. BY	DATE			
		6/12/07		
		DATE OF B.O.C.C. APPROVAL		

METAL STORM SEWER PIPE, GENERAL NOTES

- A. SHALL MEET REQUIREMENTS OF SECTION 430 AND 943 OF THE F.D.O.T.'s LATEST REVISION/UPDATE SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND ITS SUPPLEMENT. ALL PIPE SHALL BE TYPE 'A', FULLY BITUMINOUS COATED.
- B. SHALL HAVE GASKETED WATER TIGHT JOINTS AT ALL LOCATIONS.
- C. SHALL HAVE THE PROJECT SITE TESTED BY A CERTIFIED LAB FOR pH, RESISTIVITY, SULFATES AND CHLORIDES. TESTS SHALL BE IN ACCORDANCE WITH FLORIDA METHOD OF TEST FM 5-550, 551, 552 & 553 AND SUBMITTED TO THE TRANSPORTATION DEPARTMENT FOR REVIEW.
- D. SHALL HAVE A MINIMUM COVER OF 18".
- E. SHALL NOT BE ALLOWED WITHIN THE ROAD RIGHT-OF-WAY OR CARRY RIGHT-OF-WAY RUNOFF.
- F. ALL STORMWATER PIPE SHALL BE INSTALLED BEHIND THE CURB OR EDGE OF PAVEMENT AND WITHIN THE RIGHT OF WAY.

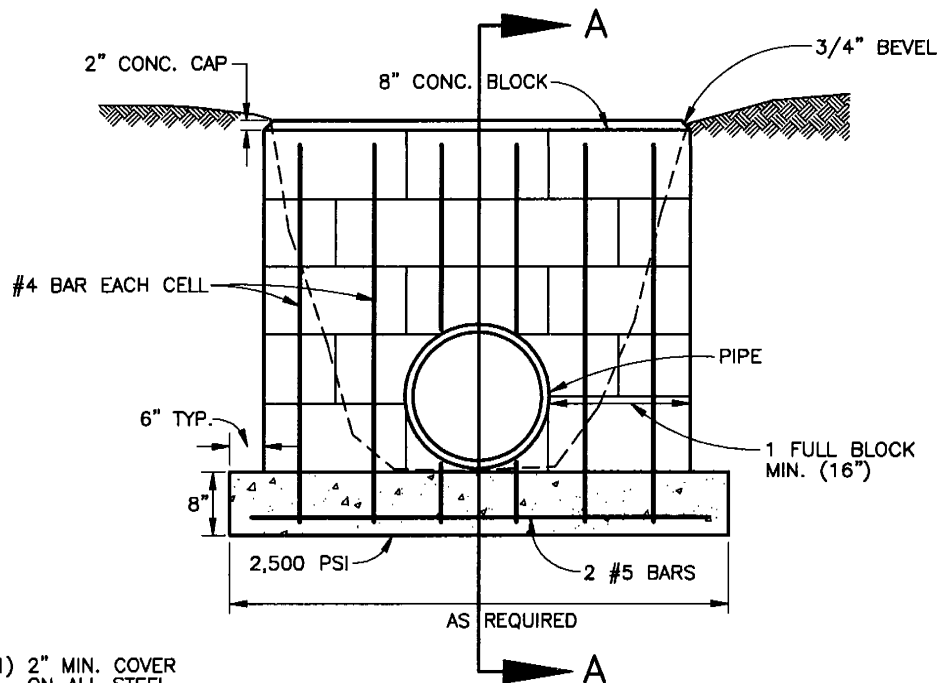
HDPE STORM SEWER PIPE GENERAL NOTES

- A. HDPE SHALL MEET CURRENT F.D.O.T. STANDARD SPECIFICATIONS.
- B. MINIMUM COVER – 9" (TOP OF PIPE TO BOTTOM OF RIDGED PAVEMENT OF DRIVEWAY)
– 15" (TOP OF PIPE TO BOTTOM OF FLEXIBLE BASE OF DRIVEWAY)
- C. SIZES ARE LIMITED TO CURRENT F.D.O.T. STANDARD SPECIFICATIONS.
- D. HDPE PIPE IS NOT ALLOWED UNDER ROADWAY.

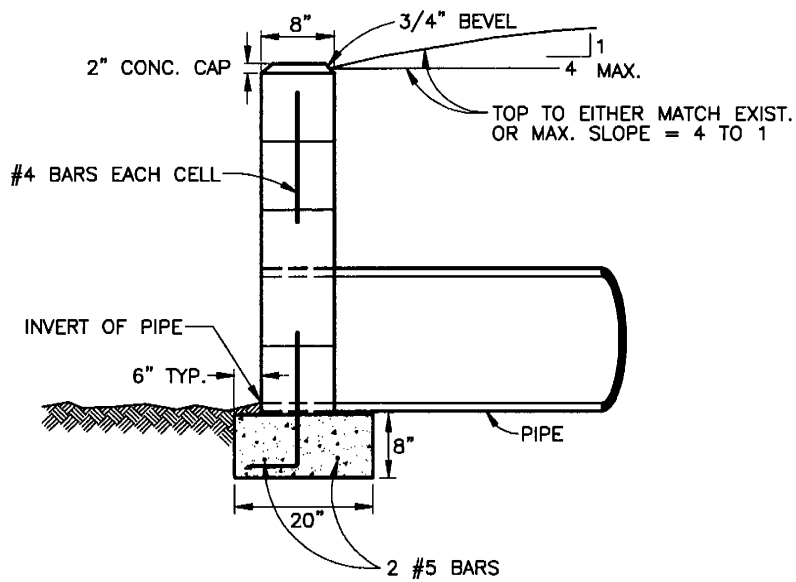
FIBER OR WIRED REINFORCED CONC. PIPE, GENERAL NOTES

- A. FRCP SHALL MEET CURRENT F.D.O.T. STANDARD SPECIFICATIONS.
- B. SIZES LIMITED TO F.D.O.T. CURRENT STANDARD SPECIFICATIONS.

MANATEE COUNTY		STORM SEWER PIPE GENERAL NOTES	205.0
TRANSPORTATION DEPARTMENT			
REV. BY	DATE	6/12/07 DATE OF B.O.C.C. APPROVAL	



END VIEW



SECTION A-A

MANATEE COUNTY
TRANSPORTATION DEPARTMENT

REV. BY	DATE

6/12/07
DATE OF B.O.C.C. APPROVAL

**CONCRETE BLOCK
HEADWALL**

205.1

SIDEWALKS INDEX

	<u>SHEET NO.</u>
300 SIDEWALKS	300.0
A. GENERAL NOTES	301.0
SIDEWALK REQUIREMENTS	301.1
HANDICAPPED RAMP SHEET #1	302.1
HANDICAPPED RAMP SHEET #2	302.2
CURB RAMP DETECTABLE WARNINGS	302.3

MANATEE COUNTY TRANSPORTATION DEPARTMENT		SIDEWALKS INDEX	300.0
REV. BY	DATE		
6/12/07			
DATE OF B.O.C.C. APPROVAL			

GENERAL NOTES

1. SIDEWALK SHALL BE CONSTRUCTED A MINIMUM OF 4" THICK, USING 3000 psi CONCRETE. WHERE SIDEWALK BISECTS A DRIVEWAY, THE MINIMUM SHALL BE 6" OF CLASS I CONCRETE REINFORCED WITH 6"x6" #10 WIRE MESH.

* SEE SHEETS #101.2 & 101.3.

2. ALL SIDEWALKS SHALL BE CONSTRUCTED TO THE SPECIFICATIONS OF THE MANATEE COUNTY LAND DEVELOPMENT CODE, SECTION 722. A MINIMUM (5) FOOT WIDE SIDEWALK SHALL BE INSTALLED ALONG THE NORTH AND WEST SIDES OF ALL NEW LOCAL STREETS WHICH ARE CONSTRUCTED IN CONJUNCTION WITH A NEW RESIDENTIAL DEVELOPMENT. A SIDEWALK A MINIMUM OF (5) FEET IN WIDTH SHALL BE INSTALLED ON BOTH SIDES OF ALL THOROUGHFARES. REFER TO F.D.O.T. ROADWAY AND TRAFFIC STANDARDS, LATEST REVISION FOR CURB CUT RAMP SPECIFICATIONS.

3. THE CONCRETE SHALL BE GIVEN A BROOM FINISH. THE SURFACE VARIATIONS SHALL NOT BE MORE THAN 1/4" UNDER A TEN FOOT STRAIGHTEDGE, NOR MORE THAN 1/8" ON A FIVE-FOOT TRAVERSE SECTION. THE EDGE OF THE SIDEWALK SHALL BE CAREFULLY FINISHED WITH AN EDGING TOOL HAVING A RADIUS OF 1/2".

4. EXPANSION JOINT: EXPANSION JOINTS BETWEEN THE SIDEWALKS AND THE CURB OR DRIVEWAY OR AT FIXED OBJECTS AND SIDEWALK INTERSECTIONS SHALL BE 1/2" MATERIAL SHALL MEET THE REQUIREMENTS OF AASHTO M153 OR AASHTO M213. FOR LONG POORS, AN EXPANSION JOINT SHALL BE PLACED AT INTERVALS NOT TO EXCEED 120'.

5. CONTRACTION JOINTS:

OPEN TYPE JOINTS

OPEN TYPE CONSTRUCTION JOINTS SHALL BE FORMED BY STAKING A METAL BULKHEAD IN PLACE AND DEPOSITING THE CONCRETE ON BOTH SIDES. AFTER THE CONCRETE HAS SET SUFFICIENTLY TO PRESERVE THE WIDTH AND THE SHAPE OF THE JOINT, THE BULKHEAD SHALL BE REMOVED. AFTER THE SIDEWALK HAS BEEN FINISHED OVER THE JOINT, THE SLOT SHALL BE FINISHED WITH A TOOL HAVING A 1/2" RADIUS.

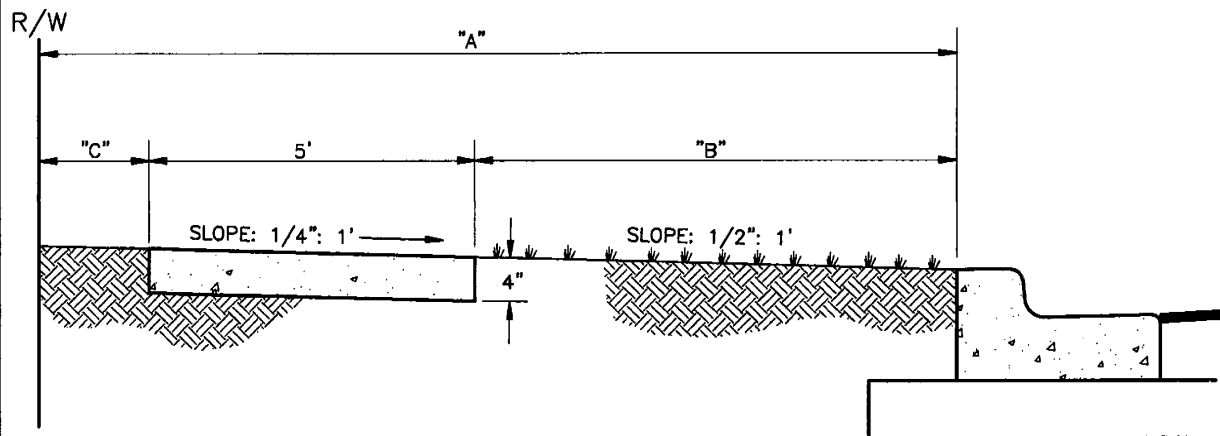
SAWED JOINTS

A SLOT APPROXIMATELY 3/16" WIDE AND NOT LESS THAN 1" DEEP AT 10' CENTERS SHALL BE CUT WITH A CONCRETE SAW AFTER THE CONCRETE HAS SET.

6. SIDEWALKS ALONG OTHER STREETS SHALL BE CONSTRUCTED AND DEDICATED AS REQUIRED BY THE APPROVING AUTHORITY WHEN NECESSARY TO CONTINUE AN EXISTING OR PROPOSED SIDEWALK.
7. HANDICAP RAMPS SHALL MEET FLORIDA ACCESSIBILITIES STANDARDS, AND SECTIONS 301.0, 301.1 AND 301.2.
8. ALL SIDEWALKS ON R/W WITHIN 10' OF AN EXISTING OR PROPOSED TREE THAT WILL EXCEED 6" IN DIAMETER AT MATURITY SHALL BE 5" THICK AND CONTAIN 2-#3 REBAR CENTERED VERTICALLY AND SPACED 3' ON CENTER. PALMS ARE NOT CONSIDERED TREES.

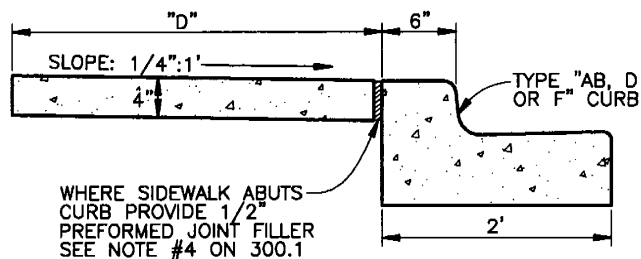
*NOTE: FOR COMPLETE SIDEWALK DETAILS, SEE F.D.O.T. DESIGN STANDARDS, 2006 EDITION, INDEX 304, SHEETS 1 THROUGH 6 AND INDEX 310, SHEETS 1 & 2.

MANATEE COUNTY			SIDEWALKS GENERAL NOTES	301.0
TRANSPORTATION DEPARTMENT				
REV. BY	DATE	6/12/07 DATE OF B.O.C.C. APPROVAL		



A= BACK OF CURB TO R/W (VARIES)
 B= UNPAVED AREA (VARIES). REFER TO
 F.D.O.T. GREEN BOOK, TABLE 3-12, LATEST REVISION.
 C= VARIES, SEE 401 SERIES

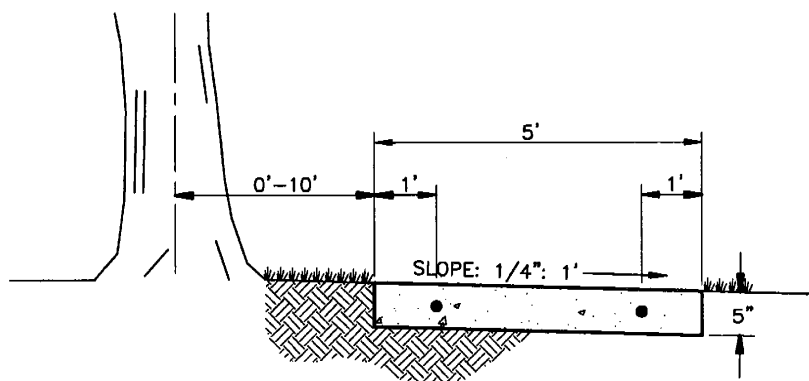
TYPICAL SIDEWALK LOCATION



D= SIDEWALK WIDTH SHALL BE 6' STANDARD, WHERE WALK ABUTS TYPE "AB, D OR F" CURB. WHERE SPEED LIMIT IS 25 MPH OR LESS, WIDTH CAN BE 5'-6".

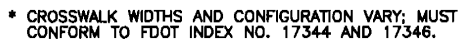
* SEE SHEET 300.1 "GENERAL NOTES" FOR FURTHER INFORMATION

ALTERNATE SIDEWALK LOCATION



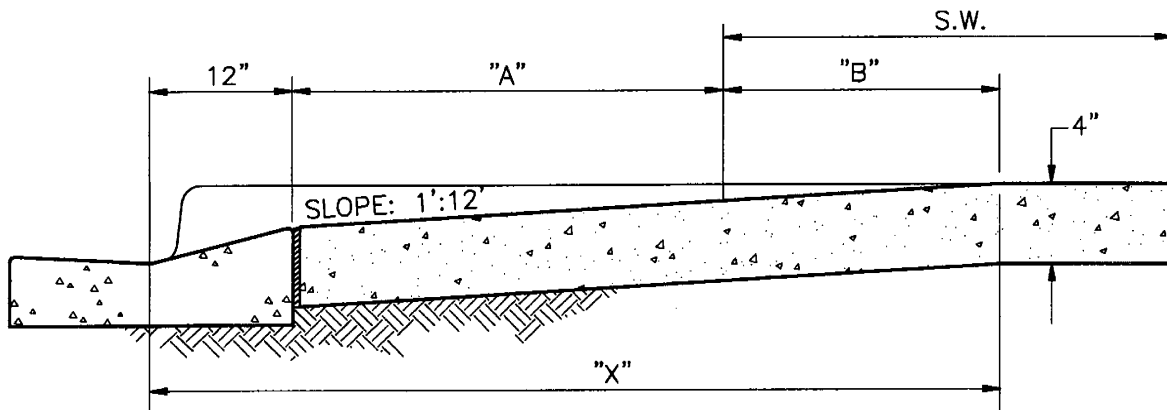
SIDEWALK LOCATION CLOSE TO TREES

MANATEE COUNTY TRANSPORTATION DEPARTMENT			SIDEWALK REQUIREMENTS	301.1
REV. BY	DATE	<div>6/12/07</div> <div>DATE OF B.O.C.C. APPROVAL</div>		



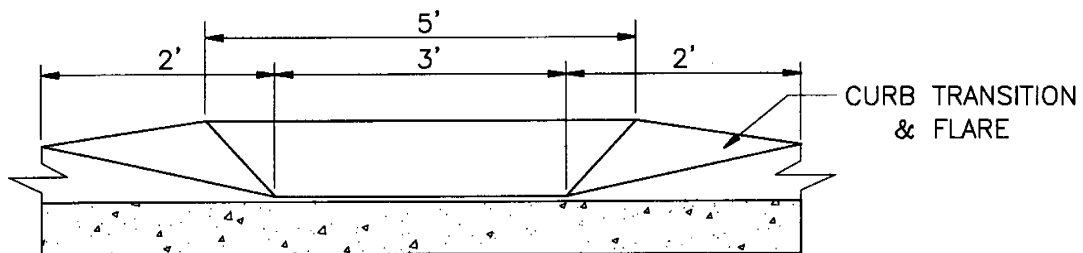
- NOTE: FOR COMPLETE HANDICAP, PUBLIC SIDEWALK AND CURB RAMP DETAILS, SEE F.D.O.T. DESIGN STANDARDS, 2006 EDITION, INDEX 304, SHEETS 1 THROUGH 6.

MANATEE COUNTY TRANSPORTATION DEPARTMENT		HANDICAPPED RAMP SHEET 1	302.1
REV. BY	DATE		
6/12/07 DATE OF B.O.C.C. APPROVAL			



SECTION A-A
(SEE SHEET 301.0)

S.W.= SIDEWALK	"A"	S.W.+ A + 10"	"X"	"B"
5' — 0	5.8'	5.8'	5'	
6' — 0	6.8'	6.8'	6'	
7' — 0	7.8'	7.3'	6.5'	
8' — 0	8.8'	7.3'	6.5'	
5' — 2'	7.8'	7.8'	5'	
5' — 2.5'	8.3'	8.1'	4.8'	
5' — 3'	8.8'	8.2'	4.4'	
5' — 3.5'	9.3'	8.4'	4.1'	
5' — 4'	9.8'	8.6'	3.8'	
5' — 4.5'	10.3'	8.7'	3.4'	
5' — 5'	10.8'	9.1'	3.1'	



SECTION B-B
(SEE SHEET 301.0)

NOTE: FOR COMPLETE HANDICAP, PUBLIC SIDEWALK AND CURB RAMP DETAILS, SEE F.D.O.T. DESIGN STANDARDS, 2006 EDITION, INDEX 304, SHEETS 1 THROUGH 6.

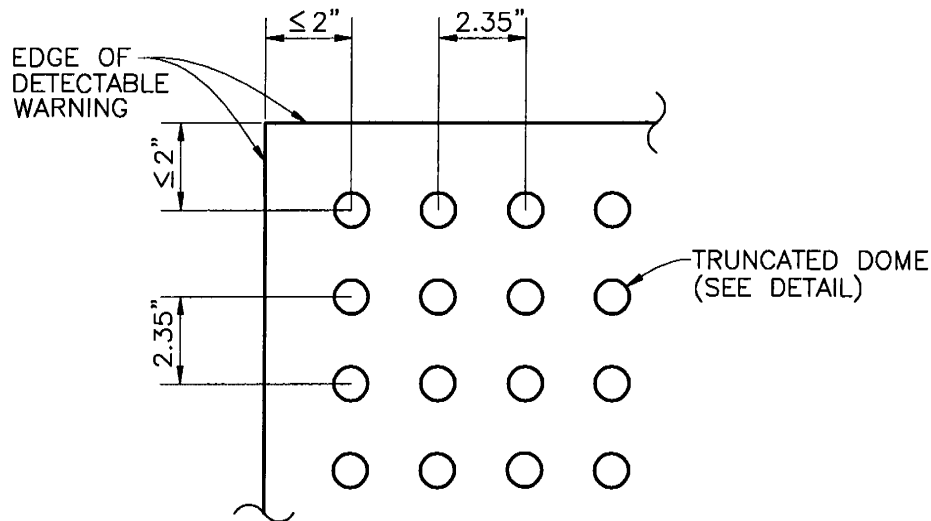
MANATEE COUNTY
TRANSPORTATION DEPARTMENT

REV. BY	DATE

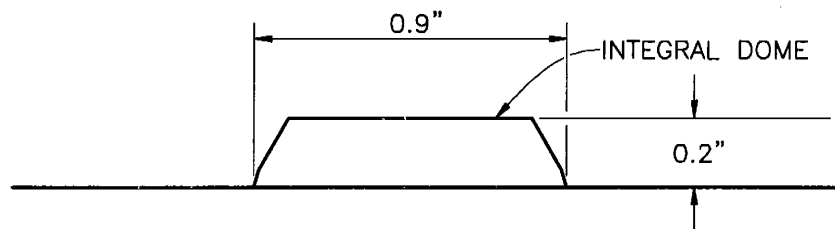
6/12/07
DATE OF B.O.C.C. APPROVAL

**HANDICAPPED
RAMP SHEET 2**

302.2



PLAN VIEW



TRUNCATED DOME

CURB RAMP DETECTABLE WARNING DETAIL

NOTES:

DETECTABLE WARNINGS ON WALKING SURFACES

THE DETECTABLE WARNING SHALL EXTEND THE FULL WIDTH AND DEPTH OF THE CURB RAMP.

DETECTABLE WARNINGS SHALL CONSIST OF RAISED TRUNCATED DOMES WITH A DIAMETER OF NOMINAL 0.9 INCH, A HEIGHT OF NOMINAL 0.2 INCH AND A CENTER-TO-CENTER SPACING OF NOMINAL 2.35 INCH AND SHALL CONTRAST VISUALLY WITH ADJOINING SURFACES, EITHER LIGHT-ON-DARK, OR DARK-ON-LIGHT.

THE MATERIAL USED TO PROVIDE CONTRAST SHALL BE AN INTEGRAL PART OF THE WALKING SURFACE. DETECTABLE WARNINGS USED ON INTERIOR SURFACES SHALL DIFFER FROM ADJOINING WALKING SURFACES IN RESILIENCY OR SOUND-ON-CANE CONTACT.

THE MATERIAL USED TO PROVIDE CONTRAST SHOULD CONTRAST BY AT LEAST 70%. CONTRAST IN PERCENT IS DETERMINED BY:

$$\text{CONTRAST} = [(B1 - B2) / B1] \times 100$$

WHERE B1 = LIGHT REFLECTANCE VALUE (LRV) OF THE LIGHTER AREA AND B2 = LIGHT REFLECTANCE VALUE (LRV) OF THE DARKER AREA.

NOTE THAT IN ANY APPLICATION BOTH WHITE AND BLACK ARE NEVER ABSOLUTE; THUS, B1 NEVER EQUALS 100 AND B2 IS ALWAYS GREATER THAN 0.

MANATEE COUNTY TRANSPORTATION DEPARTMENT			CURB RAMP DETECTABLE WARNINGS	302.3
REV. BY	DATE	6/12/07 DATE OF B.O.C.C. APPROVAL		

ROAD STANDARD INDEX

	<u>SHEET NO.</u>
400 ROAD STANDARDS	400.0
A. GENERAL NOTES	400.1 & 400.2
1. RIGHT-OF-WAY REQUIREMENTS	401.0
2. TYPICAL 6-LANE DIVIDED SECTION	401.1
3. TYPICAL 4-LANE DIVIDED SECTION	401.2
4. 2-LANE DIVIDED - URBAN	401.3
5. 2-LANE DIVIDED - SUBURBAN	401.4
6. TYPICAL RURAL INDUSTRIAL	401.5
7. TYPICAL URBAN INDUSTRIAL	401.6
8. TYPICAL LOCAL RURAL RESIDENTIAL	401.7
9. TYPICAL LOCAL URBAN RESIDENTIAL	401.8
10. TYPICAL RURAL SHELL ROAD	401.9
11. TYPICAL RESIDENTIAL & INDUSTRIAL CUL-DE-SAC	401.10
12. TYPICAL RES. & INDUST. CUL-DE-SAC W/MEDIAN	401.11
13. MINIMUM CURB RADIUS	402.0
14. MINIMUM CLEAR ZONE WIDTHS	402.1
15. MEDIAN REQUIREMENTS	402.2
16. LOCAL TO THOROUGHFARE INTERSECTION SEPARATION REQUIREMENTS	402.3
17. THOROUGHFARE TO THOROUGHFARE INTERSECTION SEPARATION REQUIREMENTS	402.4
18. DRIVEWAY SETBACK DISTANCE	402.5
B. SOIL CEMENT SPECIFICATIONS	403.0
C. CEMENT TREATED BASE	403.1
D. UTILITY ROAD CUT REPLACEMENT	403.2
E. ROAD CONNECTION DETAIL	403.3
G. TYPICAL RESIDENTIAL STREET ROUNDABOUT	404.0
H. SPEED TABLE DETAIL	405.0
I. ROAD CLOSURE PROCEDURES	406.0

MANATEE COUNTY		ROAD STANDARDS INDEX	400.0
TRANSPORTATION DEPARTMENT			
REV. BY	DATE		
6/12/07			
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GENERAL NOTES

- (1) All county road construction shall conform to these Manatee County Department Of Transportation Standards.
- (2) Asphaltic Concrete Type S: Shall be per Florida Department Of Transportation 2000 Standard Specifications; Section 331
Asphaltic Concrete Type III: Shall be per Florida Department Of Transportation 2000 Standard Specifications; Section 333.
 - (A) Superpave mixes equivalent to F.D.O.T. Type S mixes are an accepted alternative upon directors approval.
 - (B) Surface material will be consistent with existing surface, or better.
- (3) Limerock Base Course: Shall be per Florida Department Of Transportation 2000 Standard Specifications; Section 200.
- (4) Crushed concrete base course is acceptable unless otherwise noted.
- (5) Stabilized Sub-Grade: Shall be per Florida Department Of Transportation 2000 Standard Specifications; Sections 160, and 914.
- (6) Drainage: Shall be per Florida Department Of Transportation 2000 Standard Specifications; Section 941.

Soft, yielding or super-saturated material that will not readily compact shall be considered unacceptable for backfill. This is at the discretion of the field engineer. This type of existing material must be excavated from the road footprint to a depth as set by an approved testing lab.
- (7) Soil Cement: Shall be per Florida Department Of Transportation 2000 Standard Specifications; Section 270, excluding Sub-Section 270-4.3.1 ("Mix in place").
- (8) Concrete Gutters; Shall be per Florida Department Of Transportation 2000 Standard Specifications; Section 520.
- (9) Topsoil: Shall be per Florida Department Of Transportation 2000 Standard Specifications; Section 987.

Sodding: Shall be per Florida Department Of Transportation 2000 Standard Specifications; Section 575.

Grassing: Shall be per Florida Department Of Transportation 2000 Standard Specifications; Section 570.

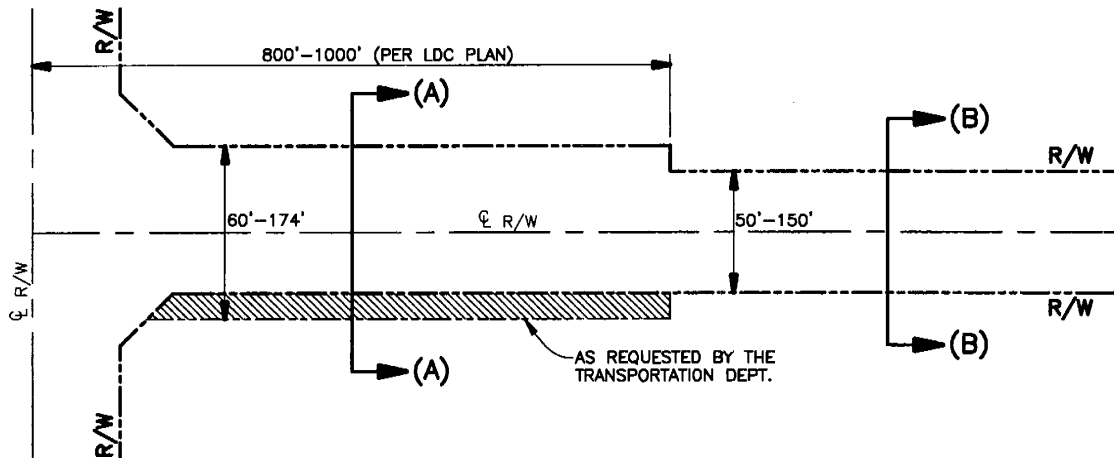
 - (A) Entire R/W between road and property line, including median, shall be fertilized (1000 lbs. of slow-release 8-12-6 per acre), and seeded (30 lbs. Bahia and 30 lbs. of Rye per acre) and mulched, or sodded, as directed by the engineer.
 - (B) Hydromulch: Shall be per Florida Department Of Transportation Specifications Section 571.
- (10) Visibility Triangles: Shall be in accordance with the Manatee County Land Development Code 1994; Section 713, latest revision, and Section 600.7-600.9.
- (11) Handicap Ramps shall meet Florida Accessibilities Standards, and Section 302 series.
- (12) Prime coat shall be applied @ a rate of 0.2 gal/sy. Tack coat of 0.08 gal/sy rate to be applied for overlay of existing roads.

MANATEE COUNTY			GENERAL NOTES	400.1
TRANSPORTATION DEPARTMENT				
REV.BY	DATE	6/12/07 DATE OF B.O.C.C. APPROVAL		

GENERAL NOTES (CONT.)

- (13) All the signage, striping and signals (FDOT) shall conform to the latest revision of the Florida Department Of Transportation Standard Specifications For Road And Bridge Construction, the Manual On Uniform Traffic Control Devices, F.D.O.T. Design Standards and the Manatee County Transportation And Drainage Standards, Traffic Supplemental Specifications.
- (14) Prime coat shall be applied @ a rate of 0.2 gal/sy. Tack coat of 0.08 gal/sy rate to be applied for overlay of existing roads.
- (15) In general, all signing, marking, and traffic control devices shall conform to the Florida Department Of Transportation Roadway And Traffic Standard Specifications For Road And Bridge Construction (latest revision) and the Manual On Uniform Traffic Control Devices For Streets And Highways (latest revision), as well as the Manatee County Traffic Supplemental Specifications.
- (16) Street radii requirement shall be in accordance with page 402.0, however radius should be a minimum of 50' where industrial or bus traffic (of 5% AADT or greater) is anticipated.
- (17) Cement treated aggregate base, see section 403.3.
- (18) Two lifts of asphalt is the preferred method of construction in area where extensive construction equipment will utilize the roads. A performance bond may be required for second lift. The first lift shall be 1-1/4", the second lift shall be 3/4" for residential. The second lift for industrial shall be 1-1/4". Lift thickness shall be specified for each road type.
- (19) Any road widening (including divided roads) will require full width milling.
- (20) All stormwater pipe shall be installed behind the curb or edge of pavement and within the right of way.
- (21) The base, sub-base and asphalt thickness shown for 6-lane, 4-lane, Minor Collector, Rural Industrial and Urban Industrial are minimums. If the engineer can demonstrate a reduction based upon an analysis of equal single axle load, then it may be considered.
- (22) Minimum of two pvc schedule 40 conduits (2.0" min. dia.) shall be installed for all directions at the intersections of all thoroughfare roadways per the direction of the Manatee County's Traffic Engineer. Additional signal inter-connect conduit may be required between intersections at the direction of Manatee County.

MANATEE COUNTY		GENERAL NOTES	400.2
TRANSPORTATION DEPARTMENT			
REV. BY	DATE		
6/12/07			
DATE OF B.O.C.C. APPROVAL			



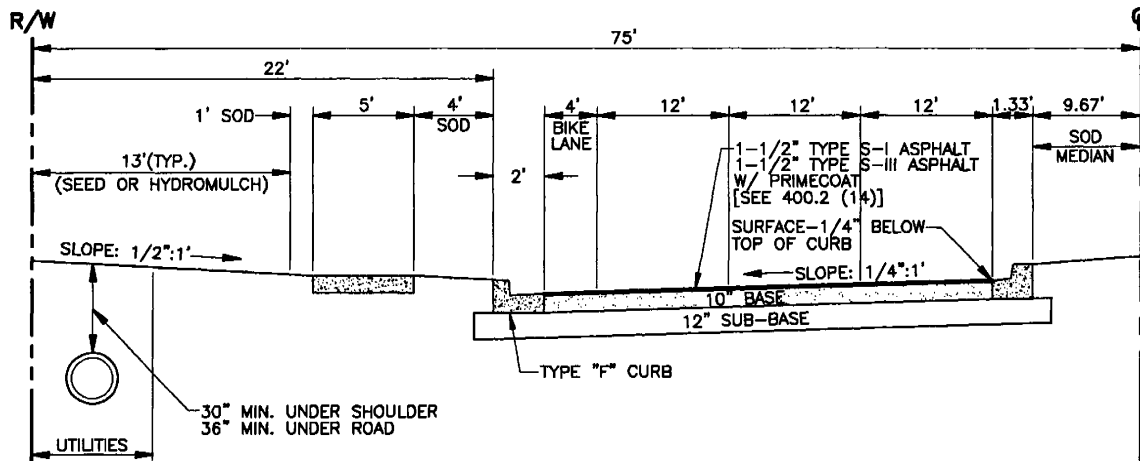
NOTE: R/W SECTION SHOWN (A-A) IS FOR CONNECTION TO MAJOR COLLECTOR OR GREATER. OTHERWISE USE R/W SECTION (B-B) THROUGHOUT.

R/W REQUIREMENT DETAIL

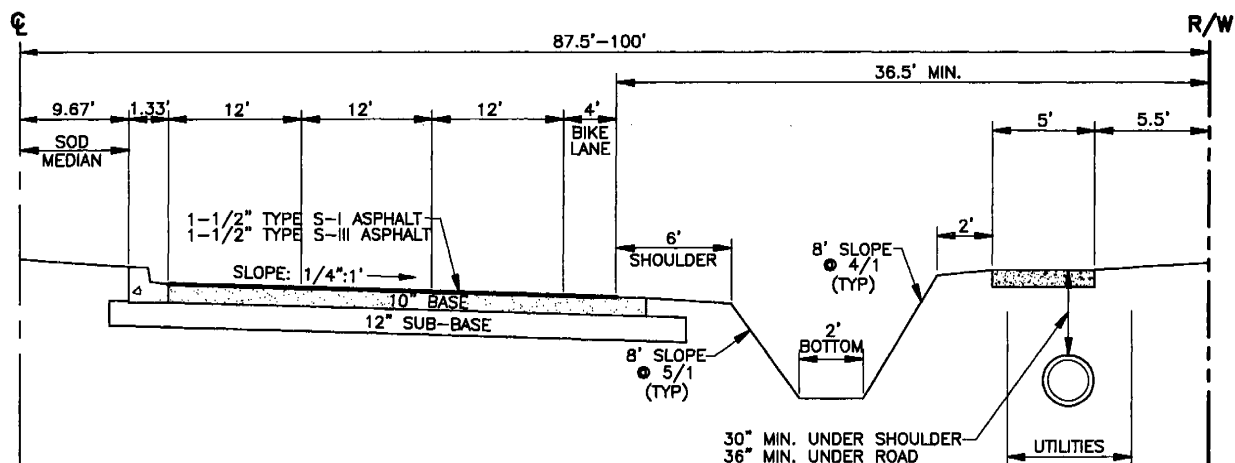
	SHOULDER TYPE		
	SHOULDER WITH DITCH	SHOULDER WITH DITCH AND SIDEWALK	CURB WITH SIDEWALK
RURAL SHELL	VARIES	N/A	N/A
LOCAL URBAN RESIDENTIAL	N/A	N/A	50'
LOCAL RURAL RESIDENTIAL	84'	84'	N/A
URBAN INDUSTRIAL	N/A	N/A	50' MIN.
RURAL INDUSTRIAL	84'	84'	N/A
2-LANE DIVIDED SUBURBAN	120'	120'	42'
2-LANE DIVIDED URBAN	N/A	N/A	N/A
4-LANE DIVIDED	150'-175'	150'-175'	120'
6-LANE DIVIDED	175'-200'	175'-200'	150'

R/W WIDTH TABLE

MANATEE COUNTY		R/W REQUIREMENTS	401.0
TRANSPORTATION DEPARTMENT			
REV. BY	DATE		
6/12/07			
DATE OF B.O.C.C. APPROVAL			



CURB WITH SIDEWALK



SHOULDER WITH DITCH

NOTES:

- A) Asphaltic concrete surface course shall be 1-1/2" Type S-I and 1-1/2" Type S-III. Two lifts of asphalt shall be required. A performance bond shall be required, the second lift is delayed beyond initial road acceptance.
- B) Base shall be 10" double course 850 lbs. per Sq. yd. lime rock compacted 98% mod. proctor density or 10" soil cement, or approved equal.
- C) 12" Stabilized sub-base shall be shell marl blended with sandy sub-grade, minimum LBR 60, 98% T180, AASHTO.
- D) When the first 2 lanes of an ultimate 6-lane need is approved, the outside 2 lanes shall be constructed first. In addition, left turn lanes must be constructed at all intersections at the time of initial construction unless exempted by the Transportation Director.
- E) Median is to be sodded per sec. 400.1 (9).
- F) See section 201.0 for curb & gutter types.
- G) Sidewalk to be constructed per Sec. 300.
- H) Laboratory tests are required to substantiate structural section design. Specifications shown on this sheet are minimum requirements.

MANATEE COUNTY
TRANSPORTATION DEPARTMENT

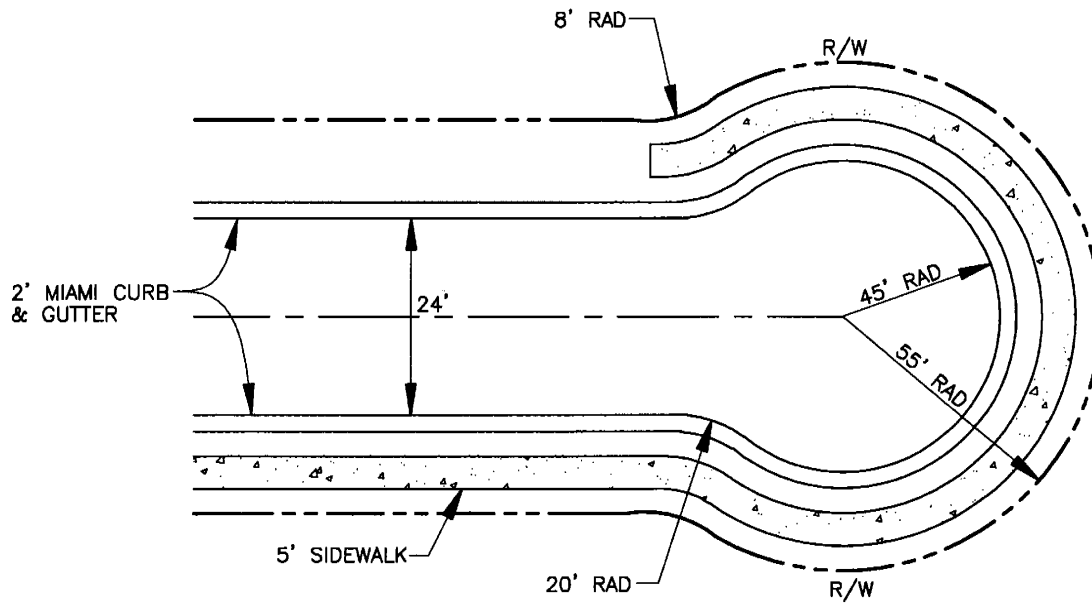
REV. BY	DATE	

6/12/07

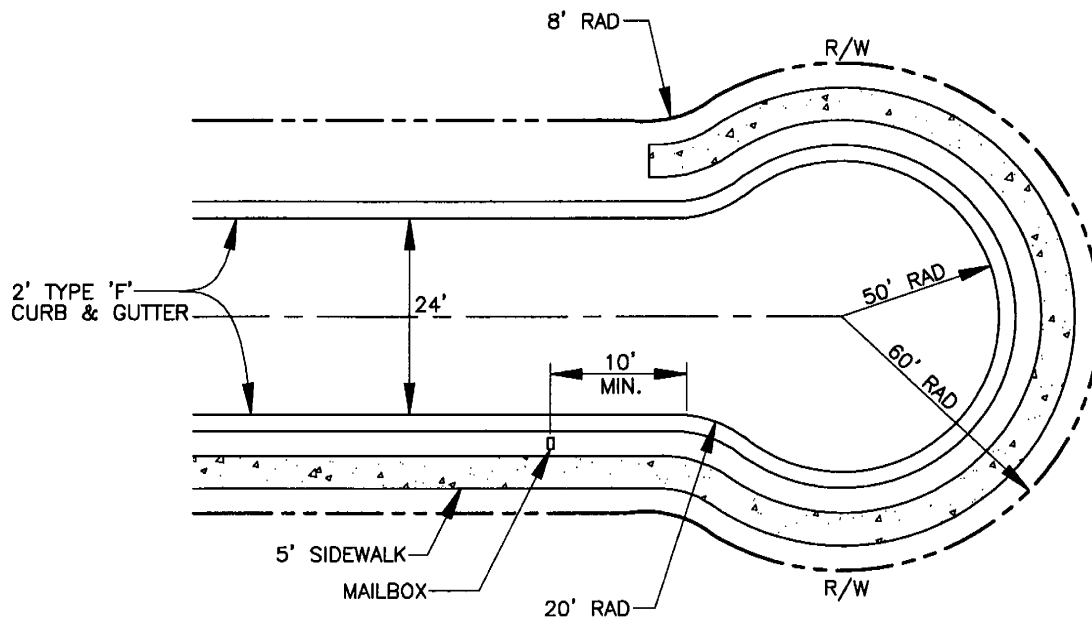
DATE OF B.O.C.C. APPROVAL

**TYPICAL 6-LANE
DIVIDED ROADWAY**

401.1

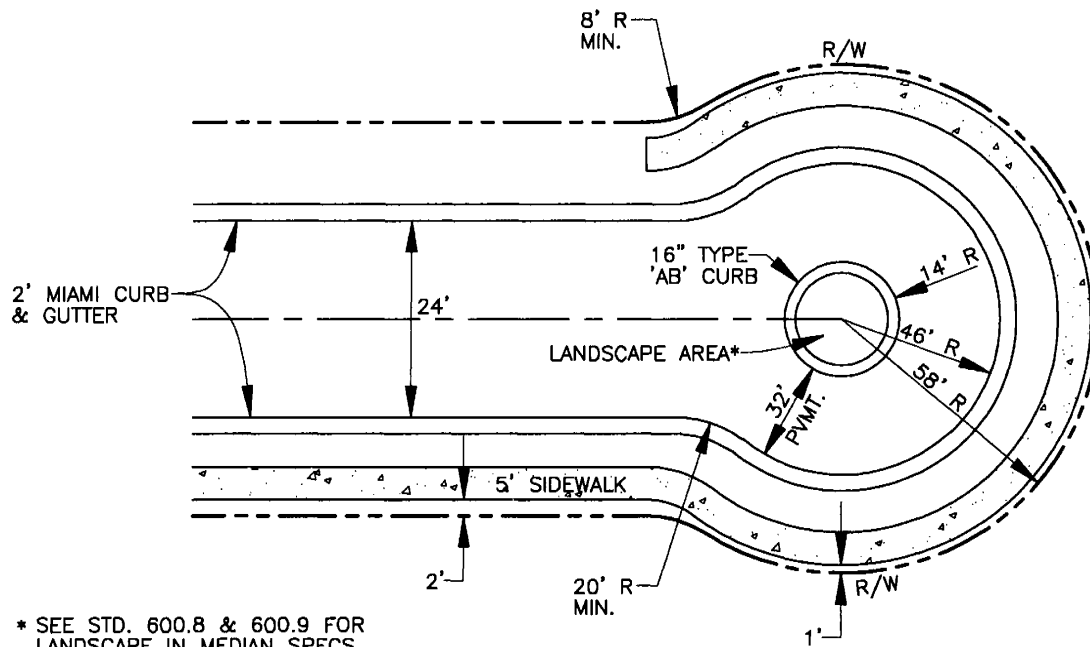


RESIDENTIAL CUL-DE-SAC



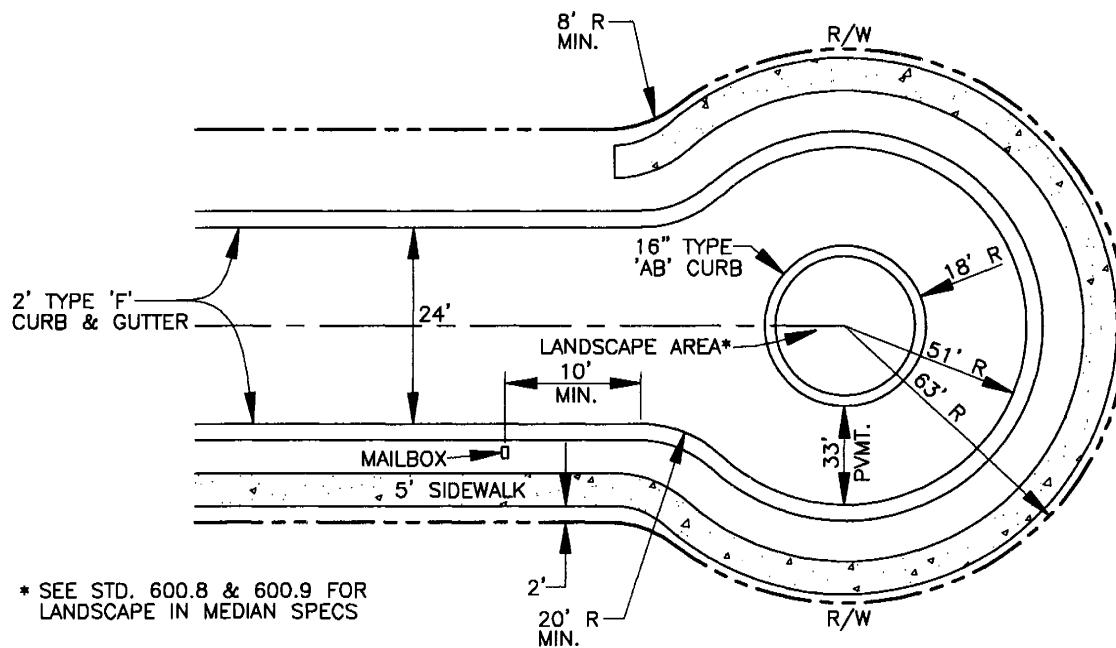
INDUSTRIAL CUL-DE-SAC

MANATEE COUNTY			RESIDENTIAL AND INDUSTRIAL CUL-DE-SAC	401.10
TRANSPORTATION DEPARTMENT				
REV. BY	DATE	<div>6/12/07</div> <div>DATE OF B.O.C.C. APPROVAL</div>		



* SEE STD. 600.8 & 600.9 FOR
LANDSCAPE IN MEDIAN SPECS

RESIDENTIAL CUL-DE-SAC



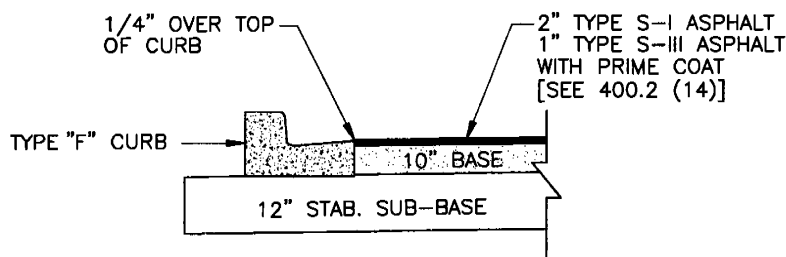
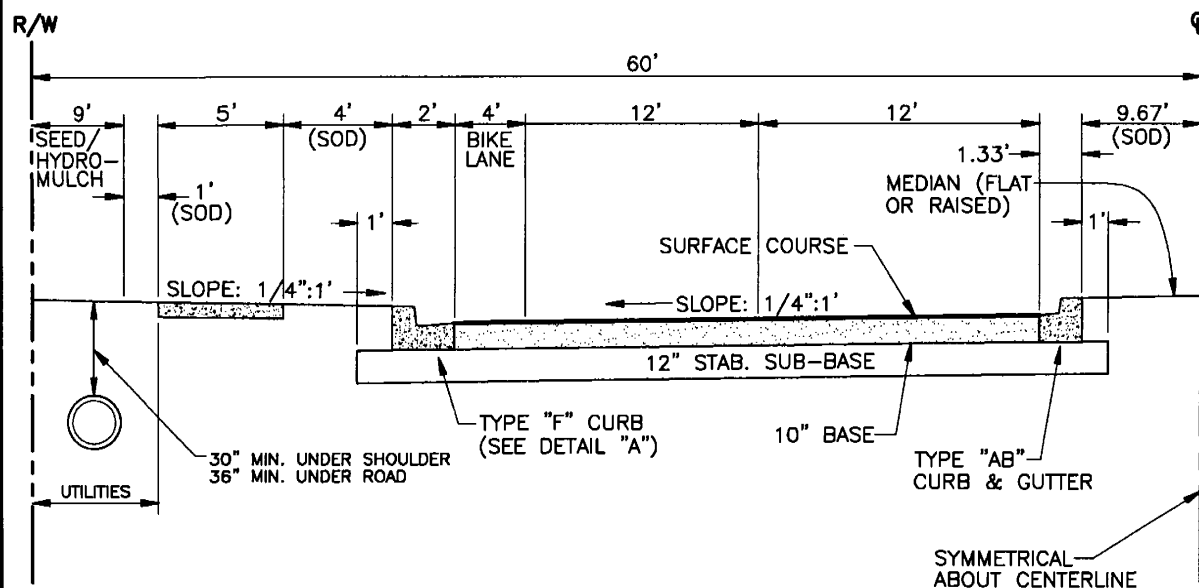
* SEE STD. 600.8 & 600.9 FOR
LANDSCAPE IN MEDIAN SPECS

INDUSTRIAL CUL-DE-SAC

ALTERNATE:

TRUCK COLLAR DESIGN MAY BE USED BETWEEN RADIUS OF 16-1/2' AND 30' (SEE 404.2).

MANATEE COUNTY TRANSPORTATION DEPARTMENT			RESIDENTIAL AND INDUSTRIAL CUL-DE-SAC WITH MEDIAN	401.11
REV. BY	DATE			
		6/12/07		
		DATE OF B.O.C.C. APPROVAL		



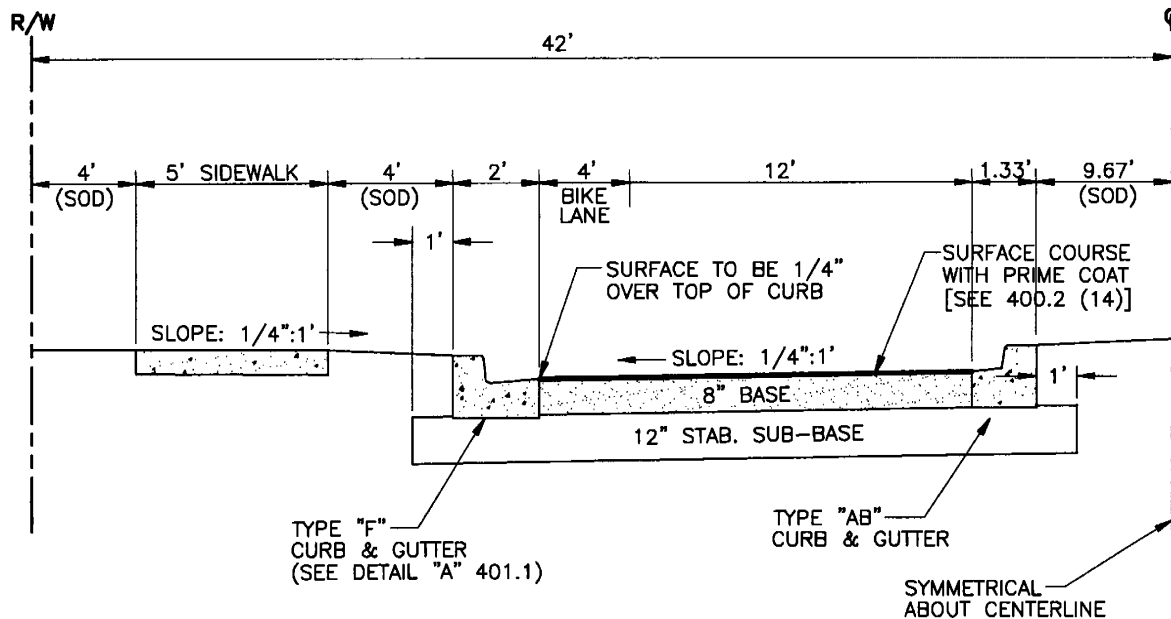
DETAIL "A"

NOTES:

- A) Asphaltic concrete surface course shall be 2" Type S-I and 1" Type S-III. Two lifts of asphalt shall be required. A performance bond shall be required if the second lift is delayed beyond initial road acceptance.
- B) 10" base course 850 lbs. per sq. yd. limerock* compacted to 98% T180 AASHTO, or 8" soil cement.*
- C) 12" stabilized sub-base shell marl blended with sandy sub-grade minimum LBR 60, 98% T180 AASHTO.
- D) Median is to be sodded.
- E) See section 201.0 for curb and gutter types.
- F) Laboratory tests are required to substantiate structural section design. Specifications shown on this sheet are minimum requirements.
- G) No portion of pipe to be into sub-base.
- H) Sidewalk to be constructed per section 300.
- I) Sodding to be installed per section 400.1 (8).
- J) When the first 2 lanes of an ultimate 4-lane need is approved, the outside 2 lanes shall be constructed first. In addition, left turn lanes must be constructed at all intersections at the time of initial construction unless exempted by the Transportation Director.

* Or approved equal, meeting same structural number.

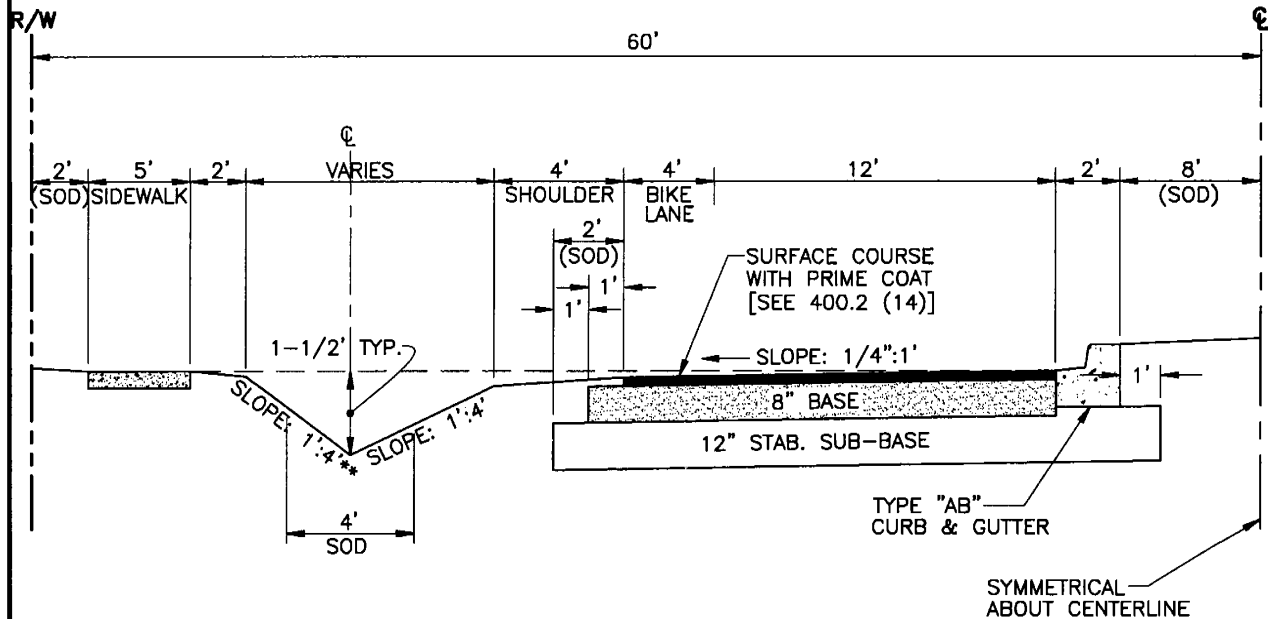
MANATEE COUNTY TRANSPORTATION DEPARTMENT			TYPICAL 4-LANE DIVIDED ROADWAY	401.2
REV. BY	DATE			
		6/12/07		
		DATE OF B.O.C.C. APPROVAL		



NOTES:

- A) Asphaltic concrete surface course shall be 1-3/4" minimum thickness Type S III. Two lifts of asphalt shall be required, A performance bond shall be required if the second lift is delayed beyond road acceptance. The first lift shall be 1" of S-I. The second lift shall be 3/4" of S-III. The final lift of asphalt may not be placed until Certificate of Occupancy has been issued for 50th percentile home or building for that street.
 - B) 8" base course 850 lbs. per sq. yd. limerock compacted to 98% modified proctor density or 8" soil cement.*
 - C) 12" stabilized sub-base shell marl blended with sandy sub-grade minimum LBR 60, 98% T180 AASHTO.
 - D) No portion of the drainage pipe shall be allowed in the sub-base.
 - E) See section 201.0 for curb and gutter types.
 - F) Sidewalk shall be constructed per section 300.
 - G) Laboratory tests are required to substantiate structural section design. Specifications shown on this sheet are minimum requirements.
 - H) Sodding shall be installed per section 400.1 (8)
- * Or approved equal, meeting same structural number.

MANATEE COUNTY			2-LANE DIVIDED URBAN	401.3
TRANSPORTATION DEPARTMENT				
REV. BY	DATE	6/12/07 DATE OF B.O.C.C. APPROVAL		



NOTES:

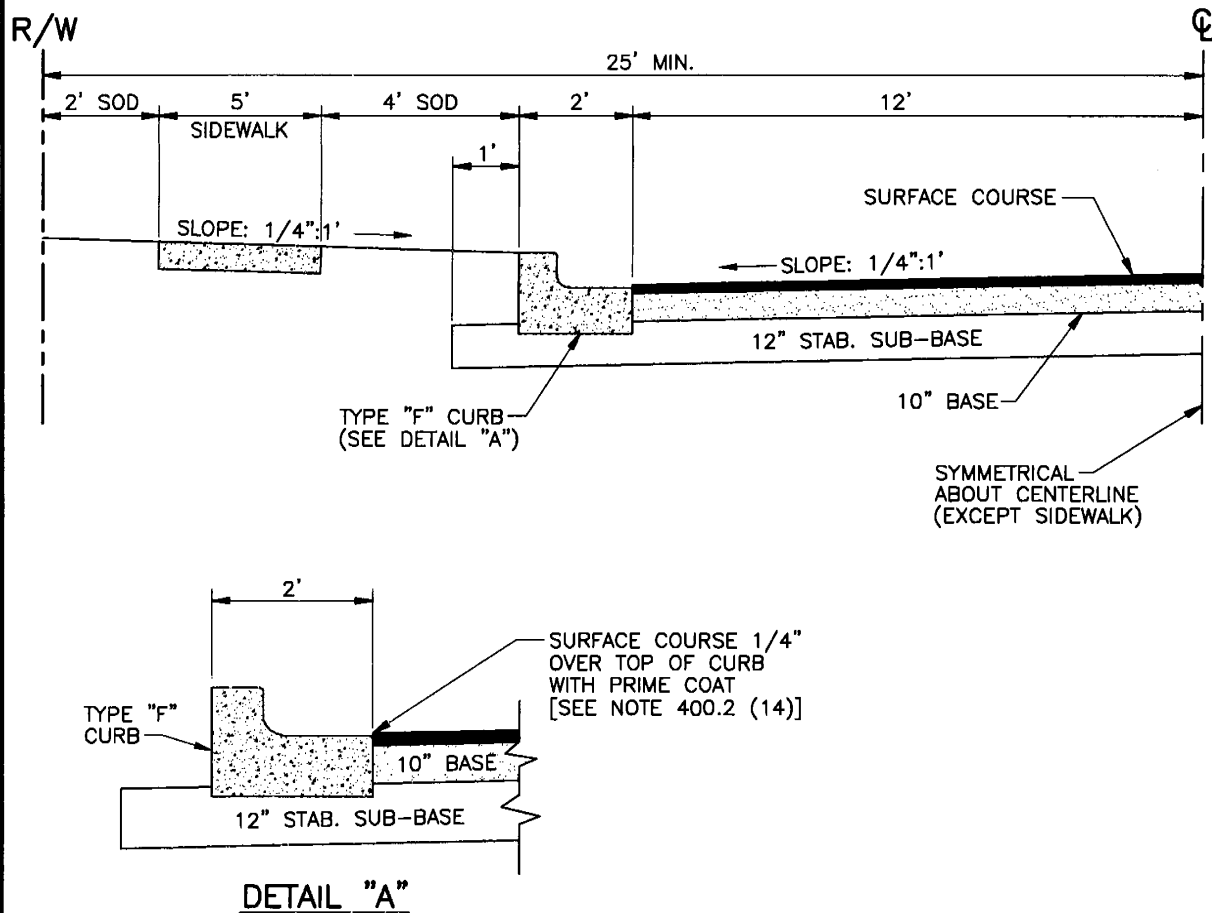
- A) Asphaltic concrete surface course shall be 1-3/4" minimum thickness Type S III. Two lifts of asphalt shall be required. A performance bond shall be required if the second lift delayed beyond road acceptance. The first lift shall be 1" of S-I. The second lift shall be 3/4" of S-III. The final lift of asphalt may not be placed until Certificate of Occupancy has been issued for the 50th percentile home or building for that street.
- B) 8" base course 850 lbs. per sq. yd. limerock compacted to 98% modified proctor density or 8" soil cement.*
- C) 12" stabilized sub-base shell marl blended with sandy sub-grade minimum LBR 60, 98% T180 AASHTO.
- D) No portion of the drainage pipe shall be allowed in the sub-base.
- E) See section 201.0 for curb and gutter types.
- F) Sidewalk shall be constructed per section 300.
- G) Laboratory tests are required to substantiate structural section design. Specifications shown on this sheet are minimum requirements.
- H) Sodding shall be installed per section 400.1 (8)

* Or approved equal, meeting same structural number.

** Ditch backslope may be a minimum of 1':3' with Manatee County Transportation Director's approval.

MANATEE COUNTY TRANSPORTATION DEPARTMENT			2-LANE DIVIDED SUBURBAN	401.4
REV. BY	DATE			
		6/12/07		
		DATE OF B.O.C.C. APPROVAL		

MANATEE COUNTY TRANSPORTATION DEPARTMENT		RURAL INDUSTRIAL	401.5
REV.BY	DATE		
6/12/07 DATE OF B.O.C.C. APPROVAL			

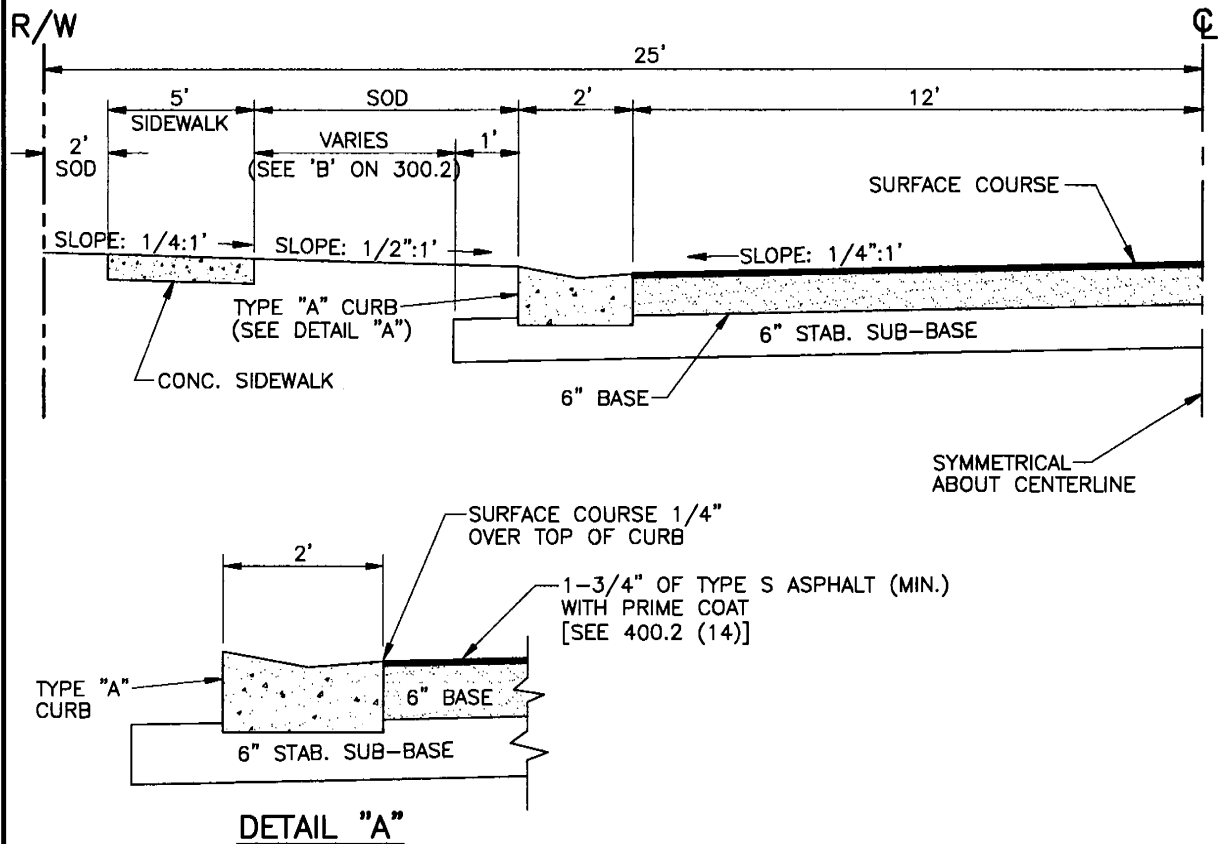


NOTES:

- A) Asphalt concrete surface course shall be 3" minimum thickness.
Two lifts of asphalt shall be standard practice.
The first lift shall be 2" of S-I, the second lift shall be 1" of S-III.
 - B) 10" base course 800 lbs. per sq. yd. limerock * compacted to 98% modified proctor density or 10" soil cement.*
 - C) 12" stabilized sub-base shell marl blended with sandy sub-grade minimum LBR 60, 98% T180 AASHTO.
 - D) Sidewalk shall be constructed per section 300.
 - E) See section 201.0 for curb and gutter types.
 - F) No portion of a drainage pipe shall be allowed in the sub-base.
 - G) Laboratory tests are required to substantiate structural section design.
Specifications shown on this sheet are minimum requirements.
 - H) Sodding shall be installed per section 400.1 (8)
- * Or approved equal, meeting same structural number.

MANATEE COUNTY TRANSPORTATION DEPARTMENT			URBAN INDUSTRIAL	401.6
REV. BY	DATE			
		6/12/07		
		DATE OF B.O.C.C. APPROVAL		

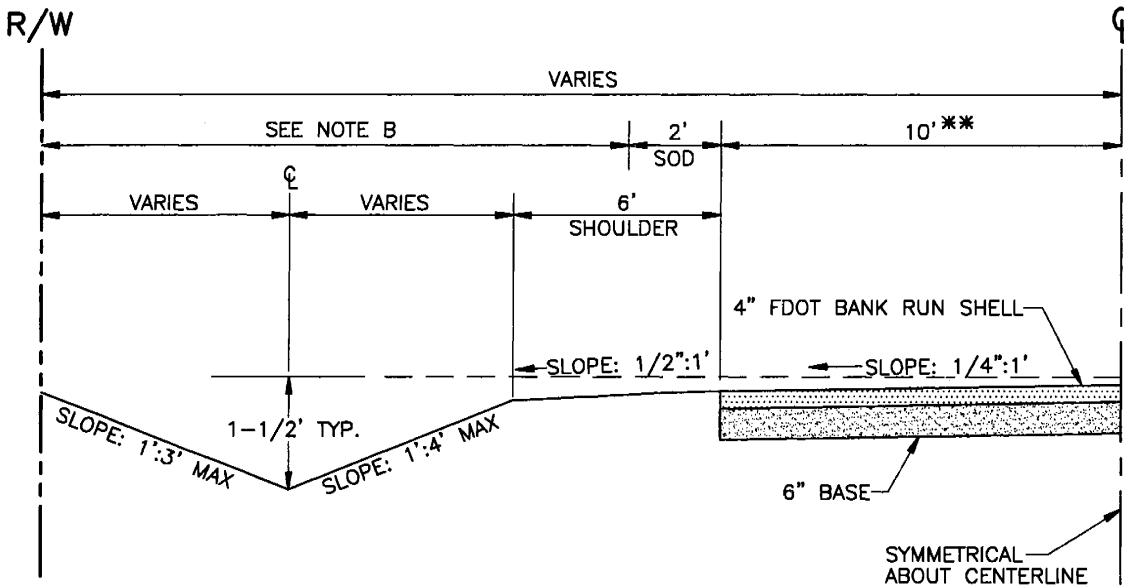
MANATEE COUNTY TRANSPORTATION DEPARTMENT		LOCAL RURAL RESIDENTIAL	401.7
REV. BY	DATE		
<div style="text-align: center;"> 6/12/07 DATE OF B.O.C.C. APPROVAL </div>			



NOTES:

- Asphaltic concrete surface course shall be laid in two lifts. The first lift shall be 1" Type S-I or S-III. The second lift shall be 3/4" Type S-III. A performance bond shall be required if the second lift is delayed beyond acceptance of the road.
 - Base course shall consist of 4-1/2" compacted sand asphalt base (1200 lbs. stab.) or 6" Caloosahatchee shell compacted to 98% AASHTO T-180 density LBR 100 or 6" soil cement.*
 - 6" stabilized sub-base shell marl blended with sandy sub-grade minimum LBR 40, 98% T180 AASHTO.
 - On new construction, sanitary sewer may be placed on centerline of R/W if desired. All laterals to be installed at the same time as sanitary sewer main line.
 - See section 201.0 for curb and gutter types.
 - No portion of drainage pipe shall be allowed in sub-base. 12" minimum cover is required on storm drain.
 - Sidewalk shall be 1' or 2' inside R/W line, with 2' preferable. To be constructed per section 300.1
 - Laboratory tests are required to substantiate structural section design. Specifications shown on this sheet are minimum requirements.
 - If sidewalks are not required, only 2' of sod is required back of curb. Hydromulch balance of right-of-way.
 - Sodding shall be installed per section 400.1 (8)
- * Or approved equal, meeting same structural number.

MANATEE COUNTY			LOCAL URBAN RESIDENTIAL	401.8
TRANSPORTATION DEPARTMENT				
REV. BY	DATE	6/12/07 DATE OF B.O.C.C. APPROVAL		



Note: These roads may only be approved for use in Ag-rural designated areas on rights-of-way dedicated prior to Oct. 15, 1990.
Roads will be classified as "Emergency Maintained Only."
Local residents are required to perform routine maintenance.

NOTES:

- *A) Clean, stabilized 6" base. Minimum LBR 40, 98% T180 AASHTO. This requires raking and removal of plant material before compaction, if plant material exists within the right of way.
- B) Road shall be finished with 4" FDOT bank run shell, then leveled and compacted.
- C) Side 2' of road shoulder shall be sodded and if there is no substantial existing grass, remaining shoulder, slopes and ditch bottom shall have a minimum of 2" topsoil, and shall be seeded and mulched. Areas susceptible to erosion must be sodded.
- D) The slope of contiguous property may not exceed 3' to 1'.
- E) 12" cover on storm sewers, no portion of pipe allowed in base.
- F) Laboratory tests are required to substantiate structural section design. Specifications shown on this sheet are minimum requirements.

* Or approved equal.

** Road may be 12' in width, (6' half width) on non-through roads (Dead Ends) serving 4 or fewer lots. Shoulders shall be a minimum of 6' in width and constructed of a stabilized or compacted soil with a minimum LBR OF 40.

The Transportation Director may allow variance to the road standards for certain circumstances.

** Road may be 16' in width (8' half width) on non-through roads (Dead Ends) serving 5 to 8 lots.

MANATEE COUNTY		RURAL SHELL ROAD	401.9
TRANSPORTATION DEPARTMENT			
REV. BY	DATE		
		<div>6/12/07</div> <div>DATE OF B.O.C.C. APPROVAL</div>	

MINIMUM FACE OF CURB RADIUS FOR INTERSECTING ROADS

ROAD CLASSIFICATION		ROAD CLASSIFICATION				
		LOCAL RESIDENTIAL (URBAN & RURAL)	INDUSTRIAL (URBAN & RURAL)	MINOR COLLECTOR	MAJOR COLLECTOR	ARTERIAL
LOCAL RESIDENTIAL (URBAN & RURAL)		25'	40'	35'	35'	35'
INDUSTRIAL (URBAN & RURAL)		40'	50'	50'	50'	50'
MINOR COLLECTOR		35'	50'	50'	50'	50'
MAJOR COLLECTOR		35'	50'	50'	50'	50'
ARTERIAL		35'*	50'	50'	50'	50'

INCREASE PER MPO FREIGHT MANAGEMENT STUDY

* WITHOUT TURN LANE = 50'

MANATEE COUNTY TRANSPORTATION DEPARTMENT		MINIMUM CURB RADIUS	402.0
REV. BY	DATE		
6/12/07 DATE OF B.O.C.C. APPROVAL			

MINIMUM WIDTH OF CLEAR ZONE

TYPE OF FACILITY	DESIGN SPEED (MPH)						
	25 AND BELOW	30	35	40	45	50	55
	MINIMUM CLEAR ZONE (FEET)						
RURAL •	6	6 LOCAL 10 COLLECTORS 14 ARTERIALS	6 LOCAL 10 COLLECTORS 14 ARTERIALS	10 COLLECTORS 14 ARTERIALS	14 ARTERIALS AND COLLECTORS ADT < 1500	14 ARTERIALS AND COLLECTORS ADT < 1500	18 ARTERIALS AND COLLECTORS ADT < 1500
					18 ARTERIALS AND COLLECTORS ADT ≥ 1500	18 ARTERIALS AND COLLECTORS ADT ≥ 1500	24 ARTERIALS AND COLLECTORS ADT ≥ 1500
URBAN *	1 1/2	4 **	4 **	4 **	4 **	N/A **	N/A **

* FROM FACE OF CURB.

** ON PROJECTS WHERE THE 4' MINIMUM OFFSET CANNOT BE REASONABLY OBTAINED AND OTHER ALTERNATIVES ARE DEEMED IMPRACTICAL, THE MINIMUM MAY BE REDUCED TO 1-1/2'.

• USE RURAL FOR URBAN FACILITIES WHEN NO CURB AND GUTTER IS PRESENT. MEASURED FROM THE EDGE OF THROUGH TRAVEL LANE ON RURAL SECTION.

•• CURB AND GUTTER NOT TO BE USED ON FACILITIES WITH DESIGN SPEED > 45 MPH.

NOTE: ADT IN TABLE REFERS TO DESIGN YEAR ADT.

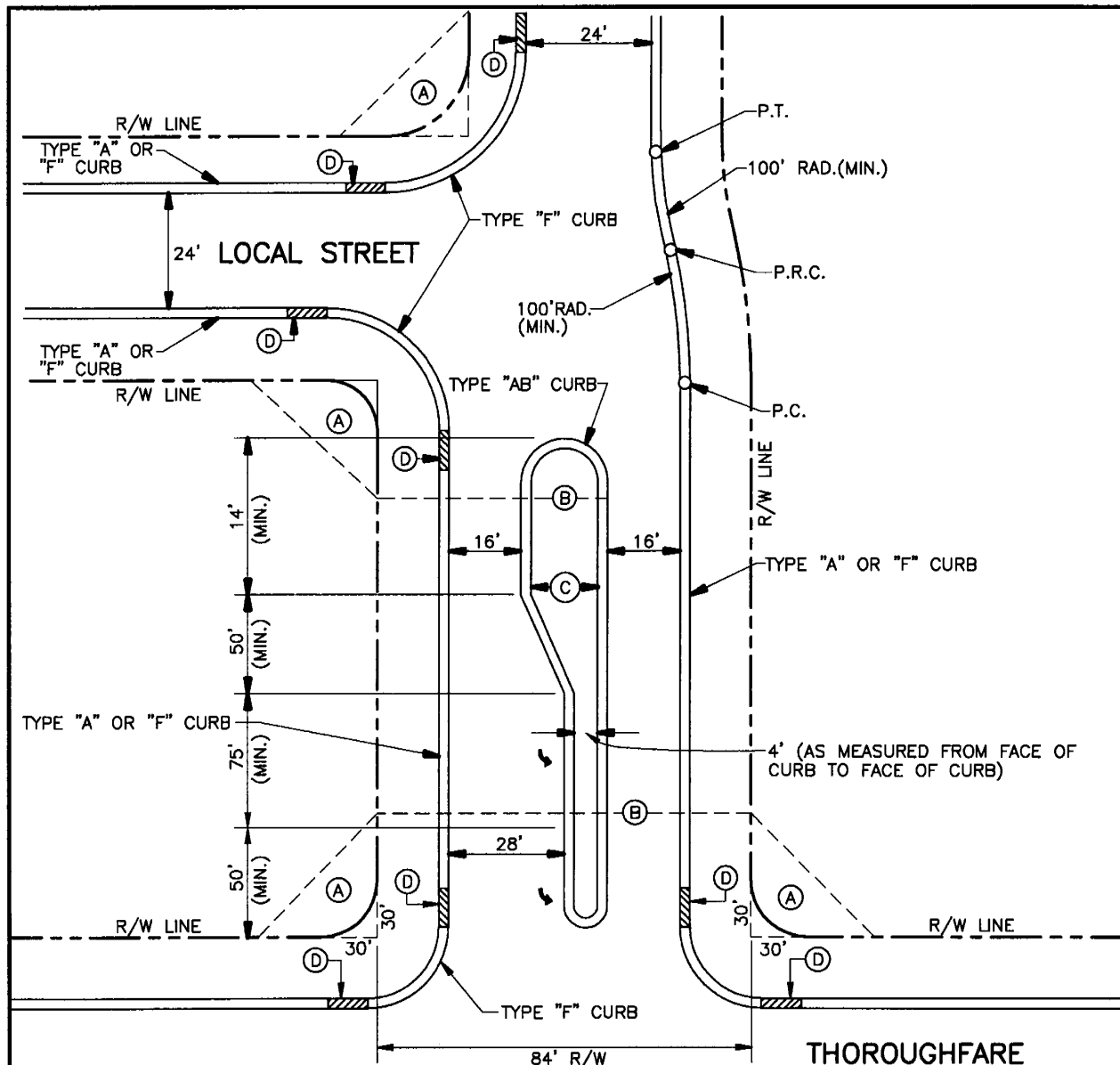
MANATEE COUNTY TRANSPORTATION DEPARTMENT

REV. BY	DATE

6/12/07
DATE OF B.O.C.C. APPROVAL

MINIMUM CLEAR ZONE WIDTHS

402.1



- ✱ (A) VISIBILITY TRIANGLE, 30' X 30' AREA PERMITTING NO OBSTRUCTION (1.0 FT. DIA. OR LESS) HIGHER THAN 2' NOR LOWER THAN 8.5', TO ASSURE PROPER VISIBILITY. (SEE L.D.C. 713).
- (B) EXTENSION OF VISIBILITY TRIANGLE ACROSS MEDIAN STRIP TO COMPLY WITH STANDARD ABOVE.
- (C) MEDIAN STRIP MINIMUM WIDTH 19.33' FROM BACK OF CURB TO BACK OF CURB, LENGTH - 300' MAX NOT EXTENDING BEYOND P.C. OF PAVEMENT INTERSECTION RADIUS OR R/W LINE OF INTERSECTING STREET.
- (D) MINIMUM 5' CURB TRANSITION.
SEE SECTION 200 "CURB & GUTTER" SHEET 201.0 FOR CURB TYPE.
SEE SHEET 400.1 "GENERAL NOTES"
- RADIUS AS REQUIRED BY ROAD DESIGNATION, LOCAL TO LOCAL 25' R., LOCAL TO THOROUGHFARE 35' R., THOROUGHFARE TO THOROUGHFARE 50' R.
- * 30' IS A MINIMUM, MAY BE GREATER, VISIBILITY TRIANGLE TO BE DESIGNED PER F.D.O.T. MANUAL OF UNIFORM MINIMUM STANDARDS FOR DESIGN, CONST. & MAIN. FOR STREETS & HIGHWAYS (GREEN BOOK), LATEST REVISION.

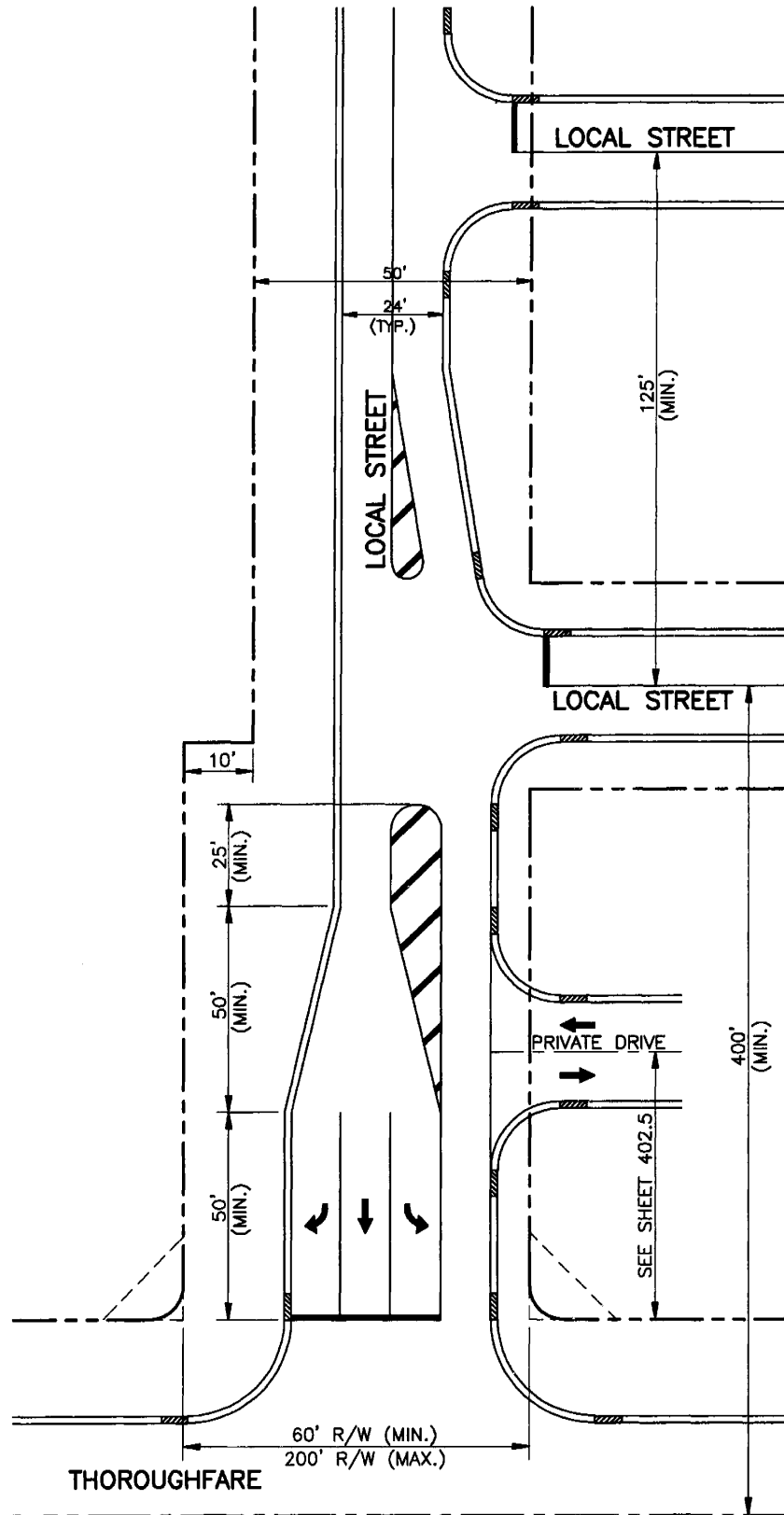
MANATEE COUNTY
TRANSPORTATION DEPARTMENT

REV. BY	DATE

6/12/07
DATE OF B.O.C.C. APPROVAL

**MEDIAN
REQUIREMENTS**

402.2



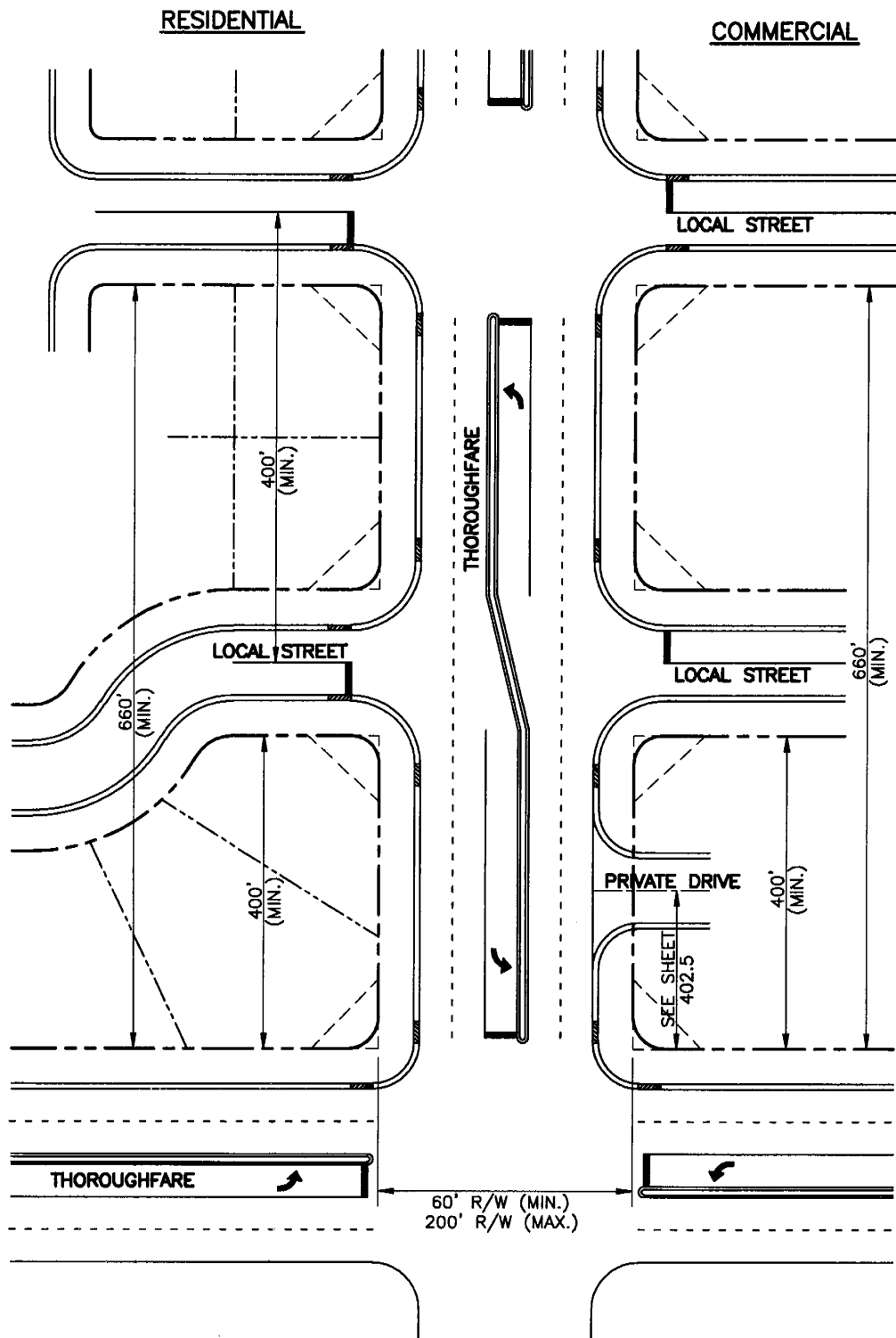
MANATEE COUNTY
TRANSPORTATION DEPARTMENT

REV. BY	DATE

6/12/07
DATE OF B.O.C.C. APPROVAL

**LOCAL STREET TO
THOROUGHFARE
SEPARATION
REQUIREMENTS**

402.3



NOTE:

MINIMUM DISTANCE BETWEEN SIGNALIZED INTERSECTIONS SHALL BE 1,300'.

MANATEE COUNTY TRANSPORTATION DEPARTMENT			THOROUGHFARE TO THOROUGHFARE SEPARATION REQUIREMENTS	402.4
REV. BY	DATE	<div>6/12/07</div> <div>DATE OF B.O.C.C. APPROVAL</div>		

DRIVEWAY SETBACK DISTANCE

PRINCIPAL USE OF LOT SERVICED	HIGHEST CLASSIFICATION OF INTERSECTING STREETS	MINIMUM REQUIRED DISTANCE (FEET)
RESIDENTIAL	ARTERIAL – THOROUGHFARE	60'
	MAJOR COLLECTOR – THOROUGHFARE	40'
	MINOR COLLECTOR – THOROUGHFARE	30'
	LOCAL	30'
ALL OTHER USES	ARTERIAL – THOROUGHFARE	75'
	MAJOR COLLECTOR – THOROUGHFARE	60'
	MINOR COLLECTOR – THOROUGHFARE	50'
	LOCAL	50'

MANATEE COUNTY		DRIVEWAY SETBACK DISTANCE	402.5
TRANSPORTATION DEPARTMENT			
REV. BY	DATE		
6/12/07 DATE OF B.O.C.C. APPROVAL			

SOIL CEMENT SPECIFICATIONS

1. DESIGN MIX:

- A.) 300 P.S.I. (7 DAYS) LAB DESIGN.
- B.) CEMENT CONTENT BY WEIGHT MUST BE A MINIMUM OF 5% AND A MAXIMUM OF 8%.
- C.) SOIL, CEMENT AND WATER SHALL BE CENTRAL PLANT MIX ONLY.

2. PROJECT TEST SAMPLES:

- A.) THE PILLS CAST FROM PROJECT OPERATIONS MUST BREAK AT 200 P.S.I. OR HIGHER AT 7 DAYS.
- B.) CORES MAY BE TAKEN AT 14 DAYS TO PROVIDE ADDITIONAL INFORMATION REGARDING A SOIL CEMENT SECTION.
- C.) CORE BREAKS BELOW 150 P.S.I. WILL NOT BE ACCEPTABLE.
- D.) IN PLACE DENSITY TESTS SHALL BE MADE IN THE SUB-BASE AND BASE COURSE. FREQUENCY OF TESTING SHALL BE AT LEAST ONE TEST FOR EVERY 500 L.F. OF PAVEMENT. IF PROJECT IS LESS THAN 500 L.F., THEN A MINIMUM OF TWO DENSITY TESTS SHALL BE TAKEN.
- E.) ALL CORES SHALL BE 6" DIAMETER.
- F.) SUB-BASE TO BE A MINIMUM OF LBR 40 (UNLESS OTHERWISE NOTED).

3. CONSTRUCTION METHODS:

- A.) CONSTRUCTION METHODS SHALL IN ACCORDANCE WITH F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2000 EDITION, SECTION 270 EXCLUDING SUB-SECTION 270-4.3.1 ("MIX IN PLACE"). ALL OTHER SUB-SECTIONS OF SECTION ARE APPLICABLE.

*NOTE: SOIL CEMENT CAN ONLY BE USED WITH SPECIFIC APPROVAL OF DIRECTOR.

MANATEE COUNTY		SOIL CEMENT SPECIFICATIONS	403.0
TRANSPORTATION DEPARTMENT			
REV. BY	DATE		
6/12/07			
DATE OF B.O.C.C. APPROVAL			

CEMENT TREATED BASE CONSTRUCTION

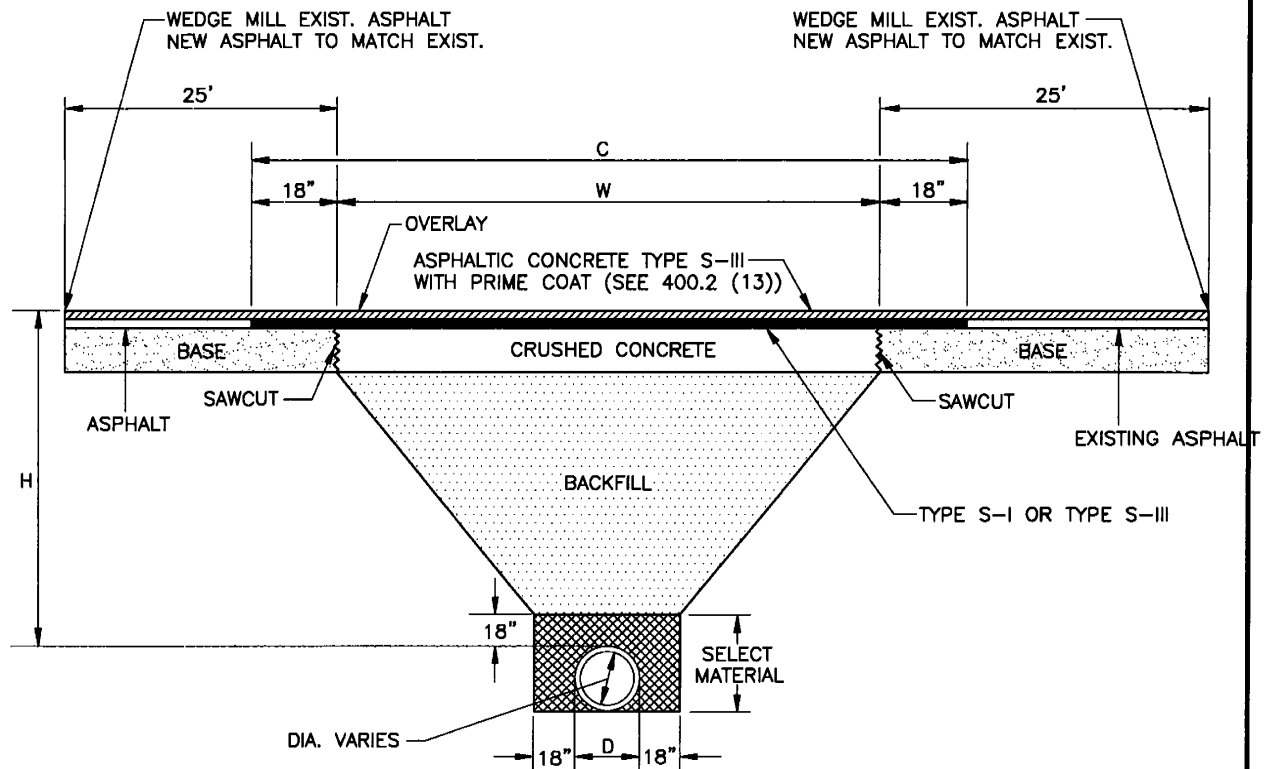
GENERAL:

- 1.1 THE CONSTRUCTION OF THE CEMENT TREATED BASE SHALL IN ACCORDANCE WITH F.D.O.T. STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, 2000 EDITION, SECTION 270 EXCLUDING SUB-SECTION 270-4.3.1 ("MIX IN PLACE"). ALL OTHER SUB-SECTIONS OF SECTION ARE APPLICABLE.
- 1.2 THE SUBGRADE IS TO BE CONSTRUCTED TO F.D.O.T. SPECIFICATION SECTION 270-4, 2000 EDITION AND BE COMPACTED TO 98 PERCENT AASHTO T-180 DENSITY. THE SUB-BASE TO BE CONSTRUCTED OF MATERIAL HAVING A MINIMUM LBR OF 40.
- 1.3 THE CEMENT TREATED BASE IS TO HAVE A MINIMUM LABORATORY CURED FIELD MIX 7-DAY COMPRESSIVE STRENGTH OF 200 PSI, BY BAG SAMPLE.
- 1.4 SHELL MATERIAL SHALL BE MIXED WITH A MINIMUM CEMENT CONTENT BY WEIGHT OF 2%, BUT NOT TO EXCEED 4%. THE INTENT OF A 2% MIX IS NOT PRIMARILY TO GENERATE STRENGTH BUT TO ENHANCE A SHELL BASE WITH THE RESILENCY AND WATER RESISTANCE CHARACTERISTICS OF SOIL CEMENT, WITHOUT GENERATING THE PROBLEMATIC CRACKING CHARACTERISTICS GENERALLY ASSOCIATED WITH NORMAL SOIL CEMENT MIXES. THEREFORE, THE CONTRACTOR IS INSTRUCTED TO GENERATE A MIX CAPABLE OF ACHIEVING A FIELD TEST 7-DAY COMPRESSIVE STRENGTH IN THE RANGE OF 200 PSI TO 300 PSI, BY BAG SAMPLE.
- 1.5 BASE MATERIAL SHALL BE F.D.O.T. SHELL AND HAVE A MINIMUM LBR OF 100 AND +/-2% OPTIMUM MOISTURE PRIOR TO MIXING WITH CEMENT.
- 1.6 ANY AREA REPRESENTED BY A 400 PSI 7-DAY BREAK OR GREATER IS SUBJECT TO REJECTION BY THE OWNER OR OWNER'S REPRESENTATIVE AFTER OBSERVATION, EVALUATION AND TESTING. VALUES FROM 300 PSI TO 400 PSI SHALL BE SUBJECT TO REVIEW AND COMPARISON TO THE DESIGN MIX.
- 1.7 IT SHOULD BE NOTED THAT MOISTURE CONTENT, RAPIDITY OF COMPACTION EFFORT AND FINAL COMPACTION RESULTS HAVE AS MUCH, IF NOT MORE, INFLUENCE ON THE COMPRESSIVE STRENGTH AS DOES THE CEMENT CONTENT. IN ORDER TO GIVE THE CONTRACTOR A REFERENCED ACCEPTANCE STANDARD, LOWER AND UPPER VALUES OF 200 PSI AND 300 PSI HAVE BEEN ESTABLISHED. THESE VALUES ARE ALSO GIVEN SOME SUBJECTIVE LEEWAY IN THE INSPECTION OF THE FINAL PRODUCT.
- 1.8 ALL MATERIAL SHALL BE COLLECTED BY THE SACK METHOD, TRANSPORTED TO LAB IN SEALED/MOISTURE RETAINING ENCLOSURE AND TESTED WITHIN 2 HOURS OF FIELD SAMPLING.

TESTING AND INSPECTION:

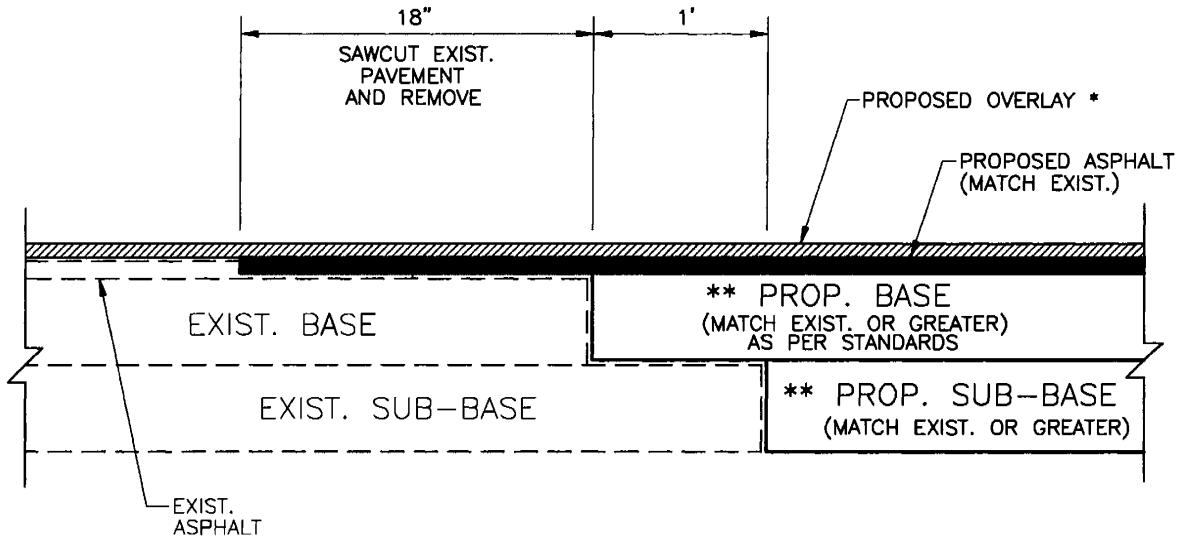
- 2.1 ALL TESTING AND INSPECTION SHALL BE PERFORMED BY AN INDEPENDENT LABORATORY APPROVED BY THE ENGINEER/COUNTY.
- 2.2 THE CONTRACTOR SHALL MAKE AVAILABLE ALL MATERIALS TO THE LABORATORY FOR THE PURPOSE OF PERFORMING ROUTINE TESTS AS SPECIFIED. THIS INCLUDES SAMPLES FOR CEMENT TREATED BASE MIXTURE DESIGN, MAXIMUM DENSITY DETERMINATION, SIEVE ANALYSIS OR OTHER TESTS AS DIRECTED BY THE ENGINEER.
- 2.3 THE PILLS CAST FROM PROJECT OPERATIONS MUST BREAK AT 200 PSI OR HIGHER AT 7 DAYS.
- 2.4 TEST SAMPLES MAY BE TAKEN AT 14 DAYS TO PROVIDE ADDITIONAL INFORMATION REGARDING A CEMENT TREATED SECTION. SAMPLES SHALL BE SAWCUT, FULL DEPTH AND BE A MINIMUM OF 12"x12".
- 2.5 SAMPLE BREAKS BELOW 150 PSI WILL NOT BE ACCEPTABLE. ALL CORES SHALL BE 6 INCHES IN DIAMETER.
- 2.6 IN PLACE DENSITY TESTS SHALL BE MADE IN THE SUB-BASE AND BASE COURSE. FREQUENCY OF TESTING SHALL BE AT LEAST ONE TEST FOR EVERY 500 L.F. OF PAVEMENT. IF PROJECT IS LESS THAN 500 L.F., THEN A MINIMUM OF TWO DENSITY TESTS SHALL BE TAKEN. A MINIMUM OF TWO STRENGTH TEST VALUE SPECIMENS SHALL BE TAKEN EACH DAY (ONE IN THE MORNING, AND ONE IN THE AFTERNOON)
- 2.7 TEST RESULTS SHALL BE REPORTED IN WRITING TO THE COUNTY.
- 2.8 F.D.O.T. SHELL BASE MATERIALS WILL BE ONLY BASE MATERIAL ACCEPTED.
- 2.9 CRUSHED CONCRETE BASE MATERIAL REQUIRES DIRECTOR'S APPROVAL.

MANATEE COUNTY		CEMENT TREATED BASE	403.1
TRANSPORTATION DEPARTMENT			
REV. BY	DATE		
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DATE OF B.O.C.C. APPROVAL			



- A. CRUSHED CONCRETE BASE SHALL BE A MINIMUM OF 8" THICK AND A MINIMUM OF "W" IN WIDTH, OR GREATER, WHERE DISTURBED AREA IS GREATER THAN "W" FROM EQUATION: $W = (2 \times H) + D + (2 \times 18")$. SAND ASPHALT BASE WILL BE AN ACCEPTABLE ALTERNATE.
- B. BACKFILL, AASHTO M145-66 SHALL BE PLACED IN LAYERS NOT TO EXCEED 6", EACH LAYER WILL BE THOROUGHLY TAMPED AND/OR ROLLED TO 98% OF MODIFIED PROCTOR MAXIMUM DENSITY (AASHTO T-180). NON-SHRINK, HIGH SLUMP, 1,500 PSI CONC. BACKFILL MAY BE USED AS AN ALTERNATIVE IF APPROVED BY TRANSPORTATION DEPARTMENT.
- C. SELECT MATERIAL, AASHTO M-146-70, SHALL BE PLACED ON BOTH SIDES OF THE PIPE SIMULTANEOUSLY, COMPACT AREA UNDER HAUNCHES OF THE PIPE W/ MECHANICAL TAMPERS, AND THROUGHOUT THE REMAINDER OF THE SELECT MATERIAL.
- D. ASPHALTIC CONCRETE FRICTION COURSE, SHALL BE THE SAME DEPTH AND TYPE AS EXISTING OR A MINIMUM OF ONE INCH, WHICHEVER IS GREATER. $C = W + 36$
- E. "H" = THE DEPTH FROM TOP OF PIPE TO THE CENTERLINE OF THE ROAD (MINIMUM OF 36") MINIMUM OF 30" UNDER FLOWLINE OF SIDE DITCHES.
- F. RESTORE EXISTING SIGNAGE & MARKING WITH THERMOPLASTIC PER F.D.O.T. STANDARDS.

MANATEE COUNTY			UTILITY ROAD CUT REPLACEMENT	403.2
TRANSPORTATION DEPARTMENT				
REV. BY	DATE	<div>6/12/07</div> <div>DATE OF B.O.C.C. APPROVAL</div>		



* NOTE: LIMITS OF OVERLAY – EDGE OF PAVEMENT TO EDGE OF PAVEMENT AND 25' BEYOND LIMITS OF CONSTRUCTION.

** NOTE: CONNECTION TO OLDER (SUBSTANDARD THICKNESS) ROADS MAY REQUIRE THICKER PROPOSED BASE AND SUB-BASE TO MEET CURRENT STANDARDS.

SIGNAGE AND MARKING PLAN SHALL ACCOMPANY CONSTRUCTION PLAN.

ROAD CONNECTION DETAIL

N.T.S.

MANATEE COUNTY
TRANSPORTATION DEPARTMENT

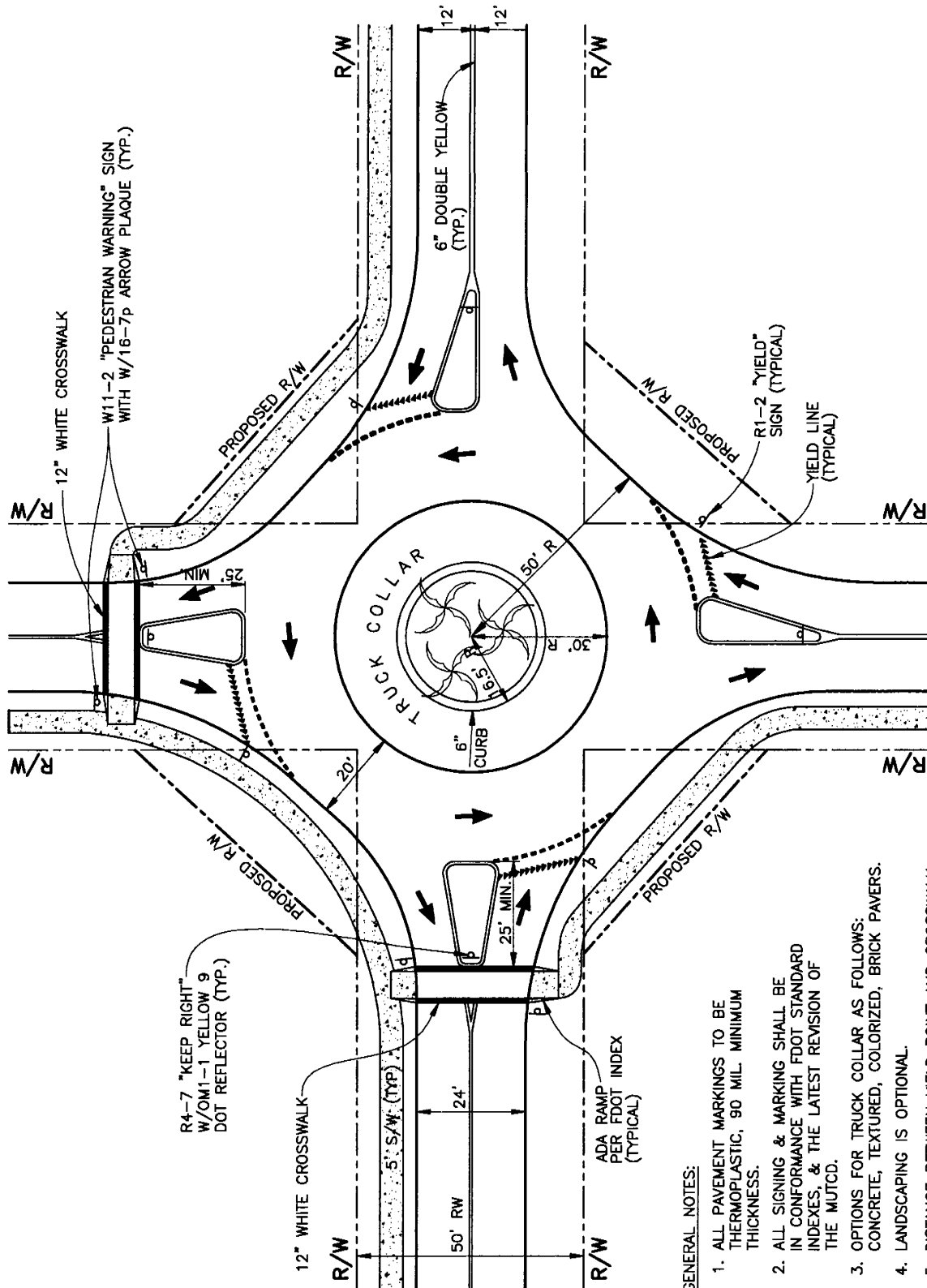
REV. BY	DATE	

6/12/07

DATE OF B.O.C.C. APPROVAL

**ROAD CONNECTION
DETAIL**

403.3



GENERAL NOTES:

1. ALL PAVEMENT MARKINGS TO BE THERMOPLASTIC, 90 MIL. MINIMUM THICKNESS.
2. ALL SIGNING & MARKING SHALL BE IN CONFORMANCE WITH FDOT STANDARD INDEXES, & THE LATEST REVISION OF THE MUTCD.
3. OPTIONS FOR TRUCK COLLAR AS FOLLOWS:
CONCRETE, TEXTURED, COLORIZED, BRICK PAVERS.
4. LANDSCAPING IS OPTIONAL.
5. DISTANCE BETWEEN YIELD POINT AND CROSSWALK IS 25' MINIMUM.

MANATEE COUNTY

TRANSPORTATION DEPARTMENT

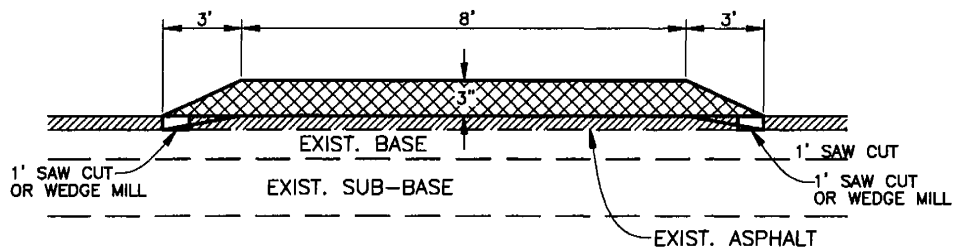
REV. BY	DATE

6/12/07

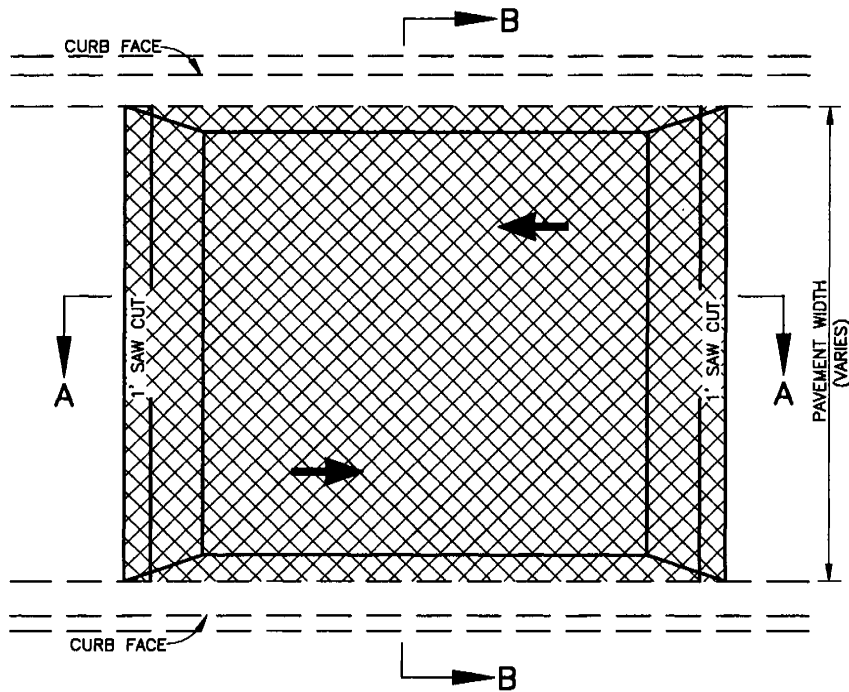
DATE OF B.O.C.C. APPROVAL

**TYP. ROUNDABOUT
FOR LOCAL &
RESIDENTIAL STREETS**

404.0

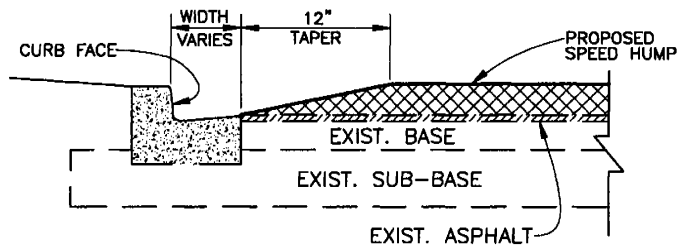


SECTION A-A

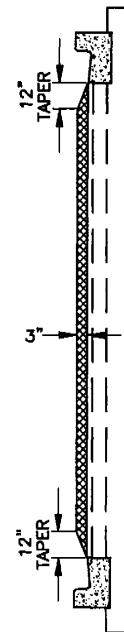


PLAN VIEW

NOTE: ALL PAVEMENT MARKINGS PER MUTCD.
DETAIL IS FOR APPLICATION TO EXISTING ROAD.



SPEED HUMP TAPER AT CURB



SECTION B-B

MANATEE COUNTY
TRANSPORTATION DEPARTMENT

REV. BY DATE

6/12/07

DATE OF B.O.C.C. APPROVAL

**SPEED TABLE
DETAIL**

405.0

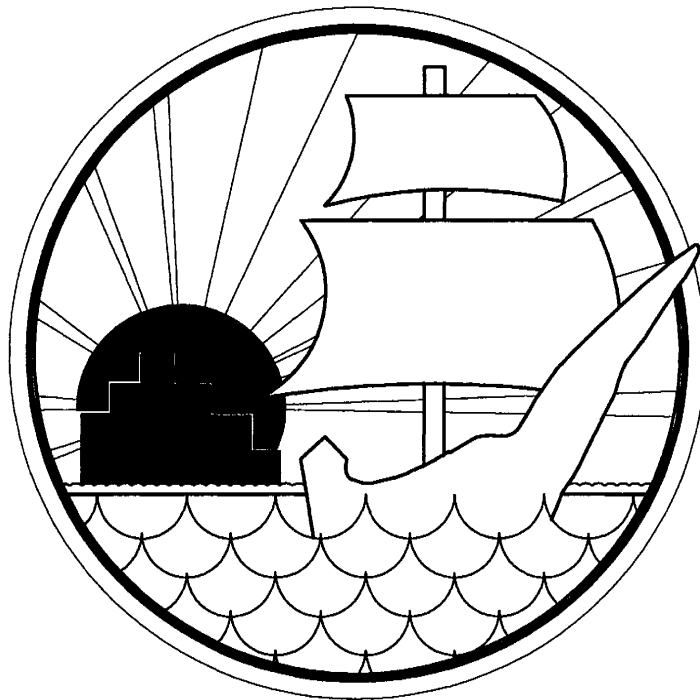
ROAD CLOSURE PROCEDURES

PRIOR TO THE CLOSURE OF A STREET OR ROAD, OR ANY LANES OF AN EXISTING ROAD IN INCORPORATED MANATEE COUNTY, THE TRANSPORTATION DEPT. MUST FIRST REVIEW AND APPROVE THE REQUEST. THE FOLLOWING IS AN OUTLINE OF THE MINIMUM REQUIREMENTS NECESSARY TO OBTAIN APPROVAL. ANY REQUEST MAY BE SUBJECT TO ADDITIONAL REQUIREMENTS BASED ON THE SPECIFICS NECESSARY TO SERVE THE GENERAL PUBLIC AND INSURE PUBLIC SAFETY.

1. A DETAILED TRAFFIC CONTROL PLAN (TCP), CLEARLY SHOWING THE ALTERED ROUTE AND SIGNAGE PACKAGE, MUST BE SUBMITTED TO THE TRANSPORTATION DEPT. ALL TRAFFIC CONTROL MUST BE IN COMPLIANCE WITH F.D.O.T. ROADWAY AND TRAFFIC DESIGN STANDARDS FOR DESIGN, CONSTRUCTION, MAINTENANCE AND UTILITY OPERATIONS INDEX 600 THRU 660 STANDARDS. SOME SET-UPS MAY REQUIRE COMBINING INDEXES OR BEING ADJUSTED TO MEET FIELD CONDITIONS. ALL REVISIONS/CHANGES TO STANDARDS CONTAINED ON STANDARD INDEX 600, PAGES 1 THROUGH 11, THAT ARE SUBMITTED AS PART OF A TCP, REQUIRE APPROVAL AND MUST BE SIGNED AND SEALED BY A QUALIFIED, REGISTERED FLORIDA PROFESSIONAL ENGINEER.
2. SPECIFIC TIMES, DATES AND LOCATIONS THE TCP IS TO BE IN OPERATION MUST BE SUBMITTED IN A FORMAT APPROVED BY THE TRANSPORTATION DEPARTMENT.
3. A MINIMUM ADVANCED NOTICE OF 5 WORKING DAYS IS NECESSARY IN ALL CASES AND ADDITIONAL TIME MAY BE REQUIRED DEPENDING ON THE IMPACT OF THE CLOSURE. ANY CHANGE TO AN APPROVED TCP MUST HAVE AT LEAST 5 DAYS NOTICE.
4. THE ROAD CLOSURE IS NOT TO GO INTO EFFECT UNTIL ALL CLOSURE AND DETOUR SIGNS ARE IN PLACE. ALL TRAFFIC CONTROL SIGNS MUST BE CHECKED TWICE A DAY BY THE WORKSITE TRAFFIC SUPERVISOR OR A PROPERLY TRAINED APPOINTED REPRESENTATIVE.
5. THE NOTIFICATION OF ALL AFFECTED ENTITIES WILL BE MADE BY THE MANATEE COUNTY TRANSPORTATION DEPARTMENT AFTER ALL REQUIREMENTS HAVE BEEN MET.
6. SIGNS ARE TO BE COVERED OR REMOVED WHEN NOT IN USE.
7. ROAD CLOSURES LONGER THAN ONE DAY WILL REQUIRE ADVANCED NOTIFICATION SIGNS, THAT DETAIL THE LENGTH OF THE CLOSURE, A MINIMUM OF THREE DAYS PRIOR TO THE CLOSING.
8. FAILURE TO SECURE THE PROPER APPROVAL AND PERMITS MAY RESULT IN THE IMMEDIATE CESSATION OF WORK AND THE REMOVAL OF ALL EQUIPMENT, FACILITIES AND PERSONNEL FROM THE RIGHT-OF-WAY. UPON NOTIFICATION BY MANATEE COUNTY OF DEFICIENCIES IN THE TCP OR OTHER MATTERS INVOLVING TRAFFIC SAFETY, THE PERMITTEE SHALL IMMEDIATELY MAKE IMPROVEMENTS AS DIRECTED BY THE COUNTY. SHOULD MANATEE COUNTY DEEM CONDITIONS TO BE SUCH THAT IMMINENT DANGER IS PRESENT, ALL WORK SHALL CEASE IMMEDIATELY AND SHALL NOT RESUME UNTIL THE CONDITIONS ARE CORRECTED.

MANATEE COUNTY		ROAD CLOSURE PROCEDURES	406.0
TRANSPORTATION DEPARTMENT			
REV. BY	DATE		
		6/12/07	
		DATE OF B.O.C.C. APPROVAL	

MANATEE COUNTY TRANSPORTATION DEPARTMENT



TRAFFIC SUPPLEMENTAL SPECIFICATIONS

MANATEE COUNTY TRANSPORTATION DEPARTMENT			TRAFFIC SUPPLEMENTAL SPECIFICATIONS	500.0
REV. BY	DATE	<div>6/12/07</div> <div>DATE OF B.O.C.C. APPROVAL</div>		

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MANATEE COUNTY		TRAFFIC SUPPLEMENTAL SPECIFICATIONS	500.1
TRANSPORTATION DEPARTMENT			
REV. BY	DATE		
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SCOPE

PURSUANT TO THE FLORIDA STATUTES, CHAPTER 316, ALSO REFERRED TO AS THE FLORIDA UNIFORM TRAFFIC CONTROL LAW, ALL TRAFFIC SIGNALIZATION, SIGNING, AND MARKING IN MANATEE COUNTY SHALL MEET OR EXCEED THE FLORIDA DEPARTMENT OF TRANSPORTATION (F.D.O.T.) ROADWAY AND TRAFFIC STANDARDS AND SPECIFICATIONS (LATEST REVISION), THE FEDERAL HIGHWAY ADMINISTRATION'S MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS (MUTCD)(LATEST REVISION), AND THE MANATEE COUNTY HIGHWAY AND DRAINAGE STANDARDS (LATEST REVISION).

THE INTENDED PURPOSE OF THE TRAFFIC SUPPLEMENTAL SPECIFICATIONS AS CONTAINED HEREIN ARE TO PROVIDE FURTHER CLARIFICATION TO THE FEDERAL AND STATE DOCUMENTS HERETOFORE IDENTIFIED AS WELL AS SETTING THE PROCEDURES FOR THE PREFERRED MANUFACTURE AND INSTALLATION OF VARIOUS TRAFFIC CONTROL DEVICES IN MANATEE COUNTY.

MANATEE COUNTY TRANSPORTATION DEPARTMENT		SCOPE OF TRAFFIC SUPPLEMENTAL SPECIFICATIONS	500.2
REV. BY	DATE		
	6/12/07 <hr/> DATE OF B.O.C.C. APPROVAL		

MANATEE COUNTY
TRAFFIC SUPPLEMENTAL SPECIFICATIONS

RECEIVED BY:

COMPANY NAME _____ DATE _____

RECEIVED BY:

PRINT NAME _____

SIGNATURE _____

LIST ADDRESSES AFFECTED OR PROJECT NO.:

NOTE: THIS FORM MUST BE COMPLETED AND RETURNED TO THE
MANATEE COUNTY PROJECT MANAGEMENT DEPARTMENT PRIOR
TO RECEIVING THE TRAFFIC SUPPLEMENTAL SPECIFICATIONS.

MANATEE COUNTY TRANSPORTATION DEPARTMENT		TRAFFIC SUPPLEMENTAL SPECIFICATIONS REQUEST FORM	501.0
REV. BY	DATE		
6/12/07 DATE OF B.O.C.C. APPROVAL			

GENERAL NOTES

1. CONTACT MANATEE COUNTY PROJECT MANAGEMENT DEPARTMENT BEFORE STARTING WORK, CHECKING FOR UPDATES ON STANDARDS OR OTHER INFORMATION.
2. ONE WEEK PRIOR TO THE BEGINNING OF THE TRAFFIC SIGNAL INSTALLATION, LOOP CUTTING, OR TURN ON OF A NEW SIGNAL, THE CONTRACTOR SHALL NOTIFY:

MANATEE COUNTY PROJECT MANAGEMENT DEPT.
1026 26TH AVENUE EAST
BRADENTON, FLORIDA 34208
PHONE: (941) 708-7450

MANATEE COUNTY TRAFFIC MANAGEMENT DEPT.
1026 26TH AVENUE EAST
BRADENTON, FLORIDA 34208
PHONE: (941) 708-7463

3. ALL F.D.O.T. SPECIFICATIONS WILL BE FOLLOWED, EXCEPT WHEN F.D.O.T. AND MANATEE COUNTY SPECIFICATIONS DIFFER, MANATEE COUNTY SPECIFICATIONS TAKE PRECEDENCE, IF MANATEE COUNTY IS MORE STRINGENT. MANATEE COUNTY TRAFFIC SIGNAL SPECIFICATIONS WILL BE SUPPLIED TO THE CONTRACTOR BY THE PROJECT MANAGEMENT DEPARTMENT.
4. THE PRIME CONTRACTOR SHALL BE RESPONSIBLE FOR THE SIGNAL MAINTENANCE, TIMING AND OPERATION OF ANY AND ALL SIGNALS AND SIGNAGE FROM THE COMMENCEMENT TO THE ACCEPTANCE OF THE PROJECT (I.E.: EXISTING LOOPS CUT, SYSTEM COMMUNICATION TERMINATED, LANE OR PAVEMENT MODIFICATIONS, PEDESTRIAN MODIFICATIONS). MANATEE COUNTY WILL ASSIST IN PROVIDING EXISTING SYSTEM TIMES WHEN POSSIBLE.
- 5a. THE SIGNAL CONTRACTOR SHALL BE AVAILABLE TO RESPOND TO TROUBLE CALLS TWENTY-FOUR HOURS A DAY, SEVEN DAYS A WEEK FOR THE DURATION OF THE PROJECT. THE PRIME CONTRACTOR SHALL PROVIDE CONTACT NUMBERS FOR THE SIGNAL CONTRACTOR TO THE TRAFFIC MANAGEMENT DIVISION AT COMMENCEMENT OF PROJECT. FURTHERMORE, WITHIN TWO HOURS OF NOTIFICATION OR DOCUMENTED ATTEMPTED NOTIFICATIONS, THE SIGNAL CONTRACTOR SHALL BE ON SITE MAKING NEEDED REPAIRS OR MODIFICATIONS. FAILURE TO MEET THE TIME REQUIREMENTS SHALL GIVE THE COUNTY, AT ITS DISCRETION, THE RIGHT TO REQUEST ASSISTANCE FROM THE MANATEE COUNTY SHERIFF'S DEPARTMENT TO CONTROL TRAFFIC FOR THE PERIOD OF TIME UNTIL THE CONTRACTOR RESPONDS AND MAKES THE NEEDED REPAIRS, THE COST FOR THE MANATEE COUNTY SHERIFF'S OFFICE SHALL BE THE RESPONSIBILITY OF THE PRIME CONTRACTOR.
- 5b. THE SIGNAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE MAINTENANCE AND EMERGENCY REPAIR WORK OF ALL TRAFFIC SIGNAL SCHOOL FLASHER, WARNING FLASHER, ROADWAY LIGHTING, COUNT STATIONS AND ANY OTHER TRAFFIC RELATED DEVICE LOCATED WITHIN THE CONSTRUCTION ZONE. THE TRANSFER OF RESPONSIBILITY SHALL OCCUR ON THE FIRST DAY OF THE CONTRACT.
- 5c. THE SIGNAL CONTRACTOR SHALL NOTIFY THE FOLLOWING AGENCIES IN WRITING WITHIN 48 HOURS OF CONTRACT START DATE. THE CONTRACTOR SHALL GIVE THE LOCATION, START DATE, AND EMERGENCY CONTACT NUMBERS FOR AFTER HOURS REPAIRS.

MANATEE COUNTY TRAFFIC MANAGEMENT
2904 12th ST. CT. E.
BRADENTON, FL. 34208
(941) 708-7510

FLORIDA HIGHWAY PATROL
P.O. BOX 20009
BRADENTON, FL. 34203
(941) 751-7646

MANATEE SHERIFF'S OFFICE
515 11th ST. W.
BRADENTON, FL. 34205
(941) 747-3011

MANATEE COUNTY	
TRANSPORTATION DEPARTMENT	
REV. BY	DATE
M.R.J.	9/01
M.R.J.	1/06
6/12/07	
DATE OF B.O.C.C. APPROVAL	

**GENERAL
SIGNAL
NOTES**

502.0

GENERAL NOTES (cont.)

6. EXISTING SIGNALIZATION SHALL REMAIN IN PLACE TO THE EXTENT POSSIBLE, INCLUDING VEHICLE ACTUATION AND PEDESTRIAN SIGNAL OPERATION, AND SHALL BE USED FOR MAINTENANCE OF TRAFFIC AS REQUIRED.
7. ALL ACTUATED PHASES SHALL BE MAINTAINED DURING THE PROJECT WITH THE USE OF VIDEO OR MICROWAVE DETECTORS OR THE INSTALLATION OF LOOPS WITHIN 48 HOURS FROM WHEN THEY WERE DAMAGED.
8. THE CONTRACTOR SHALL MAINTAIN COMMUNICATION BETWEEN THE INTERSECTION AND THE COMPUTERIZED SIGNAL SYSTEM, VIA DEDICATED VERIZON TELEPHONE LINES THROUGH THE DURATION OF THE PROJECT AND FOR ANY ADDITIONAL COSTS RELATED TO MAINTAINING COMMUNICATIONS. THE COUNTY WILL CLEARLY MARK THE VERIZON SERVICE OR COUNTY INTERCONNECT POINT PRIOR TO THE CONTRACTOR DOING ANY WORK AT THE INTERSECTION. THE CONTRACTOR WILL CONTACT THE PROJECT MANAGEMENT DEPARTMENT ONE WEEK PRIOR TO ANY WORK WHICH MAY CAUSE DISRUPTION OF PHONE OR INTERCONNECT SERVICE TO ESTABLISH A TEMPORARY SERVICE POINT. THE CONTRACTOR WILL BE RESPONSIBLE FOR COORDINATING SUCH FIELD MODIFICATIONS WITH VERIZON OR THE TRAFFIC MANAGEMENT DIVISION.
9. PRIOR TO ORDERING MATERIALS, THE SIGNAL CONTRACTOR SHALL CONTACT THE TRAFFIC MANAGEMENT DIVISION THROUGH THE PROJECT MANAGEMENT DEPARTMENT AND VERIFY CURRENT COLOR CODES TO BE USED FOR SIGNAL AND INTERCONNECT CABLE.
10. WHEN A CONTRACTOR IS WORKING ON A SIGNAL IN AN INTERSECTION (INSTALLING CONDUIT IN THE STREET, REMOVING EXISTING SIGNAL EQUIPMENT, INSTALLING SIGNAL EQUIPMENT, LOOPS, HOME RUNS OR TURNING ON OF NEW SIGNALS) WHERE A LANE IS CLOSED, THE PROJECT MANAGER MAY REQUIRE AN OFF DUTY LAW ENFORCEMENT OFFICER TO DIRECT TRAFFIC. THE HOURLY RATE OF PAY FOR AN OFF-DUTY LAW ENFORCEMENT OFFICER CAN BE OBTAINED FROM THE LOCAL LAW ENFORCEMENT OFFICE. THE COST OF THE OFFICER SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR.
11. FIVE WORKING DAYS PRIOR TO INITIAL INSPECTION OF PROJECT THE CONTRACTOR SHALL FURNISH THE INSPECTOR TWO COMPLETE SETS OF AS-BUILTS AND IMSA INSPECTION FORMS AND THE PROJECT MANAGEMENT DEPARTMENT AND TRAFFIC MANAGEMENT DIVISION ONE COMPLETE SET EACH OF AS-BUILT PLANS, AS-BUILT PLANS SHALL CLEARLY INDICATE THE LOCATION OF THE INSTALLED POLES, CONDUIT, PULL BOXES, GROUND RODS, LOOP WINDOWS AND MEG READINGS FOR BOTH GROUND RODS AND LOOPS.
12. UPON PASSING THE FINAL INSPECTION THE CONTRACTOR SHALL SEND A WRITTEN REQUEST TO THE PROJECT MANAGEMENT DEPARTMENT AND TO THE TRANSPORTATION DEPARTMENT TO TRANSFER MAINTENANCE FROM THE CONTRACTOR TO MANATEE COUNTY. MANATEE COUNTY SHALL RESPOND WITHIN 5 WORKING DAYS TO ESTABLISH A TIME TABLE FOR THE TRANSFER OF MAINTENANCE RESPONSIBILITY.
13. UNLESS OTHERWISE NOTED ALL REMOVED EQUIPMENT EXCEPT CONCRETE POLES SHALL BE TURNED OVER TO MANATEE COUNTY AND DELIVERED TO THE TRAFFIC MANAGEMENT DIVISION, LOCATED AT 2904 12TH STREET COURT EAST, BRADENTON, FLORIDA, 34208, AS DIRECTED BY THE ENGINEER. CONCRETE POLES SHALL BE DISPOSED OF BY THE SIGNAL CONTRACTOR IN AREAS PROVIDED BY THE CONTRACTOR.
14. EFFECTIVE MARCH 1, 1995, IN CONFORMANCE WITH F.D.O.T. MAST ARM POLICY, ALL NEW SIGNALS INSTALLED IN MANATEE COUNTY WEST OF I-75 SHALL BE SUPPORTED BY MAST ARMS WITH THE SIGNAL HEAD(S) VERTICALLY INSTALLED AND RIGIDLY ATTACHED TO THE MAST ARM, UNLESS OTHERWISE APPROVED BY THE PROJECT ENGINEER.
15. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE LOCAL POWER COMPANY PROVIDING ELECTRICAL POWER TO DETERMINE IF A SERVICE PROCESSING FEE IS REQUIRED. ANY FEE SHALL BE INCLUDED AS PART OF PAYMENT FOR THE ELECTRICAL POWER SERVICE ASSEMBLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL PERMITS AND INSPECTIONS OF THE ELECTRICAL SERVICE.
16. THE CONTRACTOR SHALL CONTACT THE LOCAL POWER COMPANY FOR IT'S ASSISTANCE IN PERFORMING ALL NECESSARY WORK UNDER POWER LINES AT SIGNAL POLE(S), SUCH AS THE INSTALLATION OF SPAN WIRE, SIGNAL CABLE, FIBERGLASS INSULATORS, AND SIGNAL POLES.

MANATEE COUNTY			GENERAL SIGNAL NOTES	502.1
TRANSPORTATION DEPARTMENT				
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		DATE OF B.O.C.C. APPROVAL		

GENERAL NOTES (cont.)

17. F.D.O.T. BID ITEM 2639-1-XAB (ELECTRICAL POWER SERVICE) SHALL INCLUDE THE COST OF ALL SPECIAL IMPACT CONNECTION FEES CHARGED BY LOCAL POWER COMPANIES FOR ELECTRICAL SERVICE CONNECTION.
18. THE LOCATION OF UTILITIES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE EXACT LOCATION SHALL BE DETERMINED BY THE CONTRACTOR, VIA SUNSHINE STATE ONE CALL OF FLORIDA, INC., IN COORDINATION WITH UNDERGROUND AND OVERHEAD UTILITIES, A MINIMUM OF 48 HOURS PRIOR TO DIGGING.
19. THE CONTRACTOR SHALL NOTIFY THE APPROPRIATE UTILITY COMPANIES AT LEAST 72 HOURS IN ADVANCE OF POLE SETTING OPERATIONS WHERE CONFLICT WITH OVERHEAD ELECTRICAL CONDUCTORS IS EXPECTED AND IN ALL CASES WHERE JOINT USE POLES ARE CALLED FOR.
20. AT LOCATIONS WHERE UNDERGROUND UTILITIES ARE IN CLOSE PROXIMITY TO THE SIGNAL POLE FOUNDATION OR CONDUIT RUN, AS DETERMINED BY THE ENGINEER, THE CONTRACTOR WILL HAND DIG THE FIRST 48 INCHES OF THE HOLE FOR THE POLE FOUNDATION OR THE CONDUIT RUN.
21. THE CONTRACTOR IS TO DE-WATER THE POLE FOUNDATION EXCAVATION IF THE ELEVATION OF WATER IS HIGHER THAN THE ELEVATION OF THE POLE BASE.
22. MAST ARMS SHALL BE CONSTRUCTED OF ONE CONTINUOUS SECTION UP TO 50' (15.24m) IN LENGTH AND OF A TWO SECTION CONSTRUCTION FROM 50' (15.24m) TO 100' (30.49m) IN LENGTH.
23. THE ELEVATION OF THE TOP OF THE MAST ARM BASE(S) SHALL BE SIX INCHES (15.24cm) ABOVE EXISTING GRADE. IF LOCATED DIRECTLY BEHIND SIDEWALK, AT SIDEWALK GRADE.
24. ITEM 700-89-XAA (SIGN ELECTRICAL POWERED), SHALL INCLUDE SIGN ASSEMBLY AND MOUNTING HARDWARE ONLY. ALL SIGNS SHALL REQUIRE BLOCK NUMBERS.
25. INTERNALLY ILLUMINATED SIGNS SHALL BE RIGIDLY ATTACHED TO THE MAST ARM AS SHOWN ON THE PLANS.
26. THE CABINET SHALL BE COMPATIBLE WITH THE MANATEE COUNTY COMPUTERIZED TRAFFIC SIGNAL SYSTEM, F.D.O.T. BID ITEM NUMBER 2670-1ab-xcd (ACTUATED SOLID STATE CONTROLLER ASSEMBLY). THIS CABINET SHALL INCLUDE A ACP 340 SURGE PROTECTOR. THE CABINET SHALL HAVE A "MANATEE COUNTY" COMPATIBLE COMMUNICATIONS INTERFACE PANEL INSTALLED AND WIRED BY THE CONTRACTOR UNLESS DIRECTED OTHERWISE BY THE ENGINEER.
27. THE CONTROLLER CABINET BASE SHALL BE AT LEAST 2' HIGH AND THE SAME ELEVATION AS THE CENTER OF THE ROADWAY OR GREATER. THE CABINET DOOR SHALL OPEN TOWARDS OR PARALLEL TO THE RIGHT-OF-WAY LINE AND AWAY FROM TRAFFIC.
28. ITEM 670-5-ABC (ACTUATED SOLID STATE CONTROLLER ASSEMBLY), SHALL INCLUDE ADDITIONAL COST OF LABOR, CONCRETE AND OTHER MATERIALS FOR THE CONTROLLER BASE, PAD, AND STEPS AS REQUIRED.
29. ALL LOCAL AND MASTER CONTROLLERS SHALL BE SUPPLIED WITH INTERNAL F.S.K. ASSEMBLIES, SHALL ALSO INCLUDE AN EXTERNAL U.S. ROBOTICS SPORTSTER 33.6 FAX MODEM (MODEL 0459) OR A MANATEE COUNTY APPROVED EQUIVALENT, UNLESS OTHERWISE SPECIFIED. LOCAL CONTROLLERS SHALL INCLUDE THE NECESSARY HARDWARE AND FIRMWARE FOR TBC AND CLOSED LOOP OPERATION, UNLESS OTHERWISE SPECIFIED.
30. WHEN INSTALLING GROUND WIRE IN CONTROLLER CABINETS, THE COPPER GROUND WIRE SHALL NOT COME IN CONTACT WITH THE ALUMINUM CABINET, EXCEPT AT THE TERMINATION POINT.
31. THE CABINET SHALL BE INSTALLED WITH THREE 2" (5.08cm) SPARE CONDUITS. THESE CONDUITS SHALL BE CAPPED IN THE PROPER PULL BOX.
32. THE SIGNAL CONTRACTOR SHALL SIZE THE ELECTRICAL SUPPLY WIRE TO PREVENT A VOLTAGE DROP AT THE SIGNAL HEADS AS SPECIFIED IN SECTION 210-19 OF THE N.E.C.

MANATEE COUNTY			GENERAL SIGNAL NOTES	502.2
TRANSPORTATION DEPARTMENT				
REV.BY	DATE	6/12/07 DATE OF B.O.C.C. APPROVAL		
M.R.J.	9/01			
M.R.J.	1/06			

GENERAL NOTES (cont.)

33. THE CABINET FIELD WIRING, INCLUDING SIGNAL HEAD WIRING AND LEAD-INS, (CABLES NEUTRALS AND SPARES) SHALL BE IDENTIFIED FOR DIRECTION AND OR PHASE WITH CLEARLY MARKED WEATHERPROOF TAGS. THE PROPOSED TAGGING SYSTEM SHALL BE IN ACCORDANCE WITH THE F.D.O.T.'s STANDARD SPECIFICATIONS. WHITE AND WHITE WITH A BLACK WILL BE USED AS A NEUTRAL ONLY.
34. ALL CONDUITS UNDER ROADWAYS, DRIVEWAYS, AND TRAFFIC BEARING SURFACES, SHALL BE INSTALLED PRIOR TO INSTALLATION OF THE ROADWAY BASE AND SURFACE. THESE CONDUITS SHALL BE 2" (5.08cm) MINIMUM IN DIAMETER, UNLESS OTHERWISE SPECIFIED IN PLANS. ALL CONDUIT RUNS SHOWN ON THE PLAN ARE SCHEMATIC AND FIELD ADJUSTMENT MAY BE NECESSARY.
35. A SPARE 2" (5.08cm) UNDERGROUND CONDUIT RUN SHALL BE PROVIDED FOR EACH SIGNAL POLE. THE CONDUIT SHALL BE CAPPED IN A PULL BOX.
36. A MANUAL PUSH BUTTON CORD AND CABINET KEYS SHALL BE FURNISHED IN ALL CONTROLLER CABINETS.
37. BID ITEM NUMBER 2630-1-xdb (CONDUIT), SHALL MEASURE AS LENGTH OF TRENCH FOR MULTIPLE RUNS OF CONDUIT.
38. IT SHOULD BE NOTED THAT NO TEST BORINGS WERE MADE WHERE CONDUIT RUNS ARE TO BE INSTALLED BY JACKING OR BORING.
39. ALL ELECTRICAL WIRING, INCLUDING ROADWAY LOOP WIRE AND SHIELDED LEAD-IN CABLE, SHALL COMPLY WITH ALL APPROPRIATE PROVISIONS OF THE LATEST EDITION OF THE NATIONAL ELECTRICAL CODE PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION.
40. #14 XHHW PULL WIRE SHALL BE INSTALLED IN ALL CONDUITS. AT LEAST 2' (60.96cm) OF PULL WIRE SHALL BE ACCESSIBLE AT EACH CONDUIT TERMINATION AND SECURED IN THE PULL BOX OR PLACE OF TERMINATION.
41. ALL PULL BOXES AND LIDS SHALL BE TRAFFIC BEARING AND NON-METALLIC TYPE. PULL BOXES SHALL BE PLACED BEHIND CURB AND GUTTER (WHERE THERE IS NO CURB AND GUTTER, PULL BOXES SHALL BE PLACED A MINIMUM OF 7' FROM THE EDGE OF PAVEMENT).
42. THE LOOP WIRE SHALL BE I.M.S.A. 51-3 OR EQUIVALENT TYPE XHHW HIGH DENSITY CROSS-LINKED POLYETHYLENE INSULATED WIRE, RATED FOR 600 VOLTS. DETECTOR LEAD-IN CABLE SHALL BE I.M.S.A. 50-2 OR EQUIVALENT.
43. WHENEVER MORE THAN TWO INDUCTANCE LOOPS ARE CONNECTED TO THE SAME DETECTOR, THEY SHALL BE WIRED IN SERIES.
44. ALL LOOPS SHALL HAVE INDIVIDUAL LEAD-INS TO THE CABINET. LOOP SPLICES SHALL BE CRIMPED, SOLDERED AND SHRINK WRAPPED TO F.D.O.T. SPECIFICATIONS.
45. NO HOME RUNS SHALL BE CUT IN THE ROADWAY. ALL HOME RUNS SHALL BE IN CONDUIT.
46. BID ITEM NUMBER 665-xdb (PEDESTRIAN DETECTOR), SHALL INCLUDE THE ADDITIONAL COST OF LABOR AND MATERIALS REQUIRED FOR INSTALLATION OF A PEDESTRIAN SIGNAL SIGN; FTP-49. THIS SIGN SHALL CONTAIN INTERNATIONAL SYMBOLS AND BE MOUNTED ABOVE EACH PEDESTRIAN ACTUATED SIGNAL SIGN FTP-48.
47. ALL PEDESTRIAN SIGNALS SHALL BE LIGHT EMITTING DIODES (L.E.D.) WITH INTERNATIONAL SYMBOL LENS, UNLESS OTHERWISE SPECIFIED.
48. ALL SIGNAL HEADS INSTALLED ON MAST ARM POLES SHALL BE 12" L.E.D. RED, YELLOW AND GREEN BALLS AND RED, YELLOW AND GREEN ARROWS. ALL SIGNAL HEADS ON SPAN INTERSECTIONS WILL HAVE 12" OPTICAL (FULL VISABILITY) L.E.D. RED, YELLOW AND GREEN BALLS AND RED, YELLOW AND GREEN ARROWS.

MANATEE COUNTY			GENERAL SIGNAL NOTES	502.3
TRANSPORTATION DEPARTMENT				
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M.R.J.	1/06			
		DATE OF B.O.C.C. APPROVAL		

GENERAL NOTES (cont.)

49. THE EXTERNAL COLOR OF SIGNAL HOUSING SHALL BE BLACK. ALL SIGNAL HEADS SHALL HAVE TUNNEL VISORS. ALL SIGNALS SHALL BE CAST ALUMINUM WITH GLASS LENSES.
50. ALL SIGNAL HEADS SHALL HAVE POLYCARB LOUVERED BACK PLATES INSTALLED, PER THE MANUFACTURER'S RECOMMENDATIONS.
51. THE CONTRACTOR SHALL HAVE AN I.M.S.A. CERTIFIED LEVEL II (ELECTRONIC OR ELECTRICAL) ON THE JOB SITE AT ALL TIMES WHILE WORK IS BEING PERFORMED. ALL SIGNAL INSTALLATION TECHNICIANS SHALL HAVE A MINIMUM OF I.M.S.A. LEVEL I CERTIFICATION.
52. ALL MATERIALS, EQUIPMENT, AND OTHER CONTRACTOR SUPPLIED ITEMS SHALL BE INSTALLED AND MAINTAINED ACCORDING TO THE MANUFACTURER'S RECOMMENDATION, UNLESS SPECIFICALLY DIRECTED OTHERWISE BY MANATEE COUNTY.
53. ALL CINCH JONES CONNECTORS WILL BE REMOVED. SIGNALS WILL BE WIRED DIRECTLY TO TERMINAL IN DISCONNECT.
54. ALL PEDESTRIAN PUSH BUTTONS SHALL BE ORIENTED AS TO COMPLY WITH THE AMERICAN DISABILITIES ACT (A.D.A.).
55. ALL CONCRETE STRAIN POLES SHALL BE INSTALLED WITH THE PROPER RAKE SPECIFIED BY THE MANUFACTURER OR ENGINEER OF RECORD.
56. CONTRACTOR SHALL SUPPLY ALL MATERIAL SUBMITTALS TO MANATEE COUNTY TRANSPORTATION MAINTENANCE PRIOR TO CONSTRUCTION FOR APPROVAL.
57. ALL CONTROLLER CABINET DOOR DIAGRAMS SHALL REFLECT THE CURRENT, CORRECT DATA AND DOCUMENTATION.

MANATEE COUNTY
TRANSPORTATION DEPARTMENT

REV.BY	DATE	
M.R.J.	9/01	
M.R.J.	1/06	
		6/12/07
		DATE OF B.O.C.C. APPROVAL

**GENERAL
SIGNAL
NOTES**

502.4

GENERAL NOTES

1. ALL SIGNAL POLES, METAL PEDESTRIAN POLES, AND ELECTRICAL SERVICES MUST HAVE A MINIMUM OF 20' OF GROUND ROD. POLE-MOUNTED CABINETS MUST HAVE AT LEAST 50' OF GROUND ROD. ALL GROUNDS SHALL BE SUPPLEMENTED BY ADDITIONAL GROUND RODS AS NECESSARY TO REACH A MEASUREMENT OF LESS THAN 25 OHMS TO GROUND.
2. GROUND RODS FOR POLES, SERVICE, AND PAD SHALL BE PLACED A MINIMUM OF 6' APART.
3. BOND TOP AND BOTTOM SPANS TO THE BOND WIRE IN THE POLE AND TO THE POLE GROUND ROD. IF NO BOND WIRE IS AVAILABLE, USE A #6 THHN COPPER WIRE RUN INSIDE THE POLE TO BOND SPANS TOGETHER.
4. ALL GROUND ROD ASSEMBLIES FOR POLES, SERVICES, CABINETS, AND OTHER RELATED EQUIPMENT SHALL BE BONDED TOGETHER TO FORM AN INTERSECTION GROUNDING SYSTEM USING #6 THHN BARE COPPER WIRE.
5. FINAL ELEVATION; THE UPPER END OF THE GROUND ROD SHALL BE 6" BELOW GROUND ELEVATION. MARK GROUND ROD LOCATION WITH PERMANENT MARKER SUCH AS AN EPOXIED STICKER LOCATED ON THE NEAREST CURB, OR PROVIDE AS BUILT DRAWINGS WITH THE LOCATION OF GROUND RODS MARKED.

MATERIAL AND EQUIPMENT

1. GROUND ROD SHALL BE COPPER COATED STEEL 5/8" IN DIAMETER BY 10' IN LENGTH WITH THREADED ENDS.
2. COUPLINGS SHALL BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER AND SHALL BE THREADED WRENCH TIGHT.
3. GROUNDING CONDUCTOR MUST BE #6 OR LARGE THHN BARE COPPER.
4. CONNECTING DEVICES SHALL BE NON-CORROSIVE SPLIT BOLTS, CLAMPS, PRESSURE CONNECTORS, OR OTHER APPROVED MEANS TO ENSURE A POSITIVE CONNECTION.
5. MEGGER, GROUND RESISTANCE TESTER, OR OTHER APPROVED MEANS WILL BE USED TO ACQUIRE THE GROUND ROD RESISTANCE. A MEMBER OF THE TRAFFIC MANAGEMENT DIVISION STAFF SHALL BE PRESENT DURING THE TEST READING.

PROCEDURES

1. CALL SUNSHINE STATE ONE CALL OF FLORIDA, INC., A MINIMUM OF 48 HOURS BEFORE GROUND ROD INSTALLATION BEGINS.
2. USE AN ADAPTER ON GROUND RODS WHEN DRIVING TO PREVENT DAMAGE TO THE THREADS.

MANATEE COUNTY TRANSPORTATION DEPARTMENT		GROUND ROD INSTALLATION SPECIFICATIONS	503.0
REV.BY	DATE		
M.R.J.	9/01		
	6/12/07		
DATE OF B.O.C.C. APPROVAL			

SPAN INTERSECTION 12 CONDUCTOR

TERMINAL BLOCK NUMBER	COLOR CODE	3 SECTION MAIN & SIDE	5 SECTION MAIN/ 3 SECTION SIDE	3 SECTION MAIN/ 5 SECTION SIDE	MAIN PROTECTED	SIDE PROTECTED
1	RED	MAIN RED	MAIN RED	MAIN RED	MAIN RED	MAIN RED
2	AMBER	MAIN AMBER	MAIN AMBER	MAIN AMBER	MAIN AMBER	AMBER ARROW
3	GREEN	MAIN GREEN	MAIN GREEN	MAIN GREEN	MAIN GREEN	GREEN ARROW
4	BLACK	SPARE	AMBER ARROW	SPARE	SPARE	SPARE
5	BLUE	SPARE	GREEN ARROW	SPARE	SPARE	SPARE
6	RED/ BLACK	SIDE RED	SIDE RED	SIDE RED	RED ARROW	SIDE RED
7	AMBER/ BLACK	SIDE AMBER	SIDE AMBER	SIDE AMBER	AMBER ARROW	SIDE AMBER
8	GREEN/ BLACK	SIDE GREEN	SIDE GREEN	SIDE GREEN	GREEN ARROW	SIDE GREEN
9	BLACK/ WHITE	SPARE	SPARE	AMBER ARROW	SPARE	SPARE
10	BLUE/ BLACK	SPARE	SPARE	GREEN ARROW	SPARE	SPARE
11	WHITE/ BLACK	SIDE NEUTRAL	SIDE NEUTRAL	SIDE NEUTRAL	SIDE NEUTRAL	SIDE NEUTRAL
12	WHITE	MAIN NEUTRAL	MAIN NEUTRAL	MAIN NEUTRAL	MAIN NEUTRAL	MAIN NEUTRAL

MANATEE COUNTY
TRANSPORTATION DEPARTMENT

REV. BY DATE

6/12/07

DATE OF B.O.C.C. APPROVAL

**WIRE COLOR CODE
AND TERMINAL
ASSIGNMENT**

504.0

MAST ARM WIRING CODE

1. MAST ARM INTERSECTION 3 SECTION REQUIRES 7 CONDUCTOR
(CABLES MUST BE IDENTIFIED IN CABINET).

TERMINAL BLOCK NUMBER	WIRE COLOR CODE	FIELD ASSIGNMENT
1	RED	RED
2	AMBER	AMBER
3	GREEN	GREEN
4	BLACK	SPARE
5	BLUE	SPARE
11	WHITE/BLACK	SIDE NEUTRAL
12	WHITE	MAIN NEUTRAL

2. MAST ARM INTERSECTION 5 SECTION REQUIRES 9 CONNECTOR
(CABLES MUST BE IDENTIFIED IN CABINET).

TERMINAL BLOCK NUMBER	WIRE COLOR CODE	FIELD ASSIGNMENT
1	RED	RED
2	AMBER	AMBER
3	GREEN	GREEN
4	BLACK	AMBER ARROW
5	BLUE	GREEN ARROW
6	RED/BLACK	SPARE
7	GREEN/BLACK	SPARE
11	WHITE/BLACK	SIDE NEUTRAL
12	WHITE	MAIN NEUTRAL

MANATEE COUNTY		WIRE COLOR CODE AND TERMINAL ASSIGNMENT	504.1
TRANSPORTATION DEPARTMENT			
REV. BY	DATE		
<div style="display: flex; justify-content: space-between;"> 6/12/07 DATE OF B.O.C.C. APPROVAL </div>			

PEDESTRIAN CROSSING WIRING CODE FOR MAST ARM

1. 5 CONDUCTOR ONE DIRECTION (PEDESTRIAN CALL BUTTON SHALL BE I.M.S.A. 50-2 OR EQUIVALENT USING THE BLACK AS CALL AND WHITE AS LOGIC GROUND). SPARES SHOULD BE WIRE NUTTED IN HEAD.

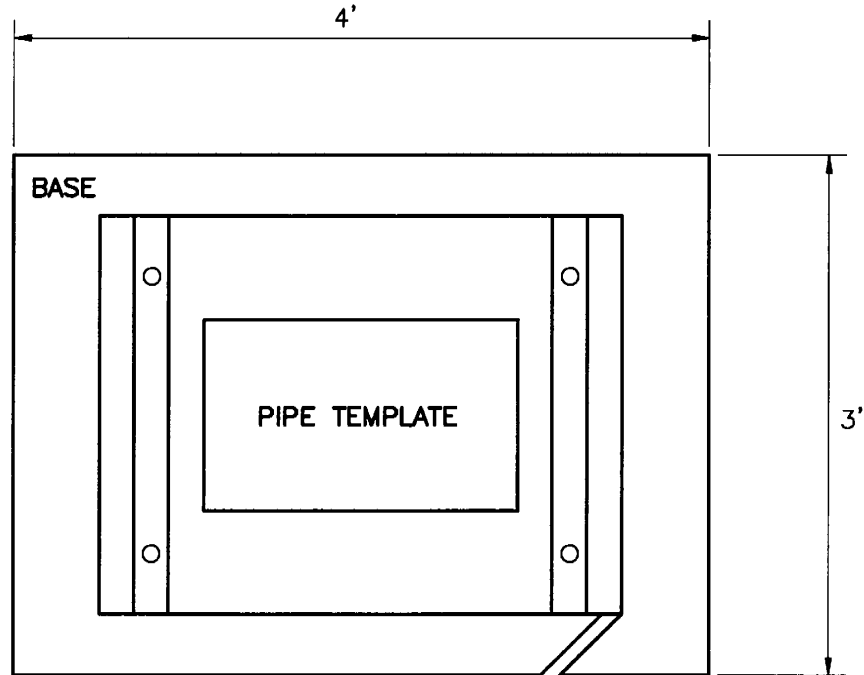
RED	DON'T WALK
AMBER	SPARE
GREEN	WALK
WHITE/BLACK	SIDE NEUTRAL
WHITE	MAIN NEUTRAL

2. 12 CONDUCTOR TWO DIRECTION (PEDESTRIAN CALL BUTTON SHALL BE I.M.S.A. 50-2 OR EQUIVALENT USING THE BLACK AS CALL AND WHITE AS LOGIC GROUND). SPARES SHOULD BE WIRE NUTTED IN APPROPRIATE HEAD.

RED	DON'T WALK (MAIN)
AMBER	SPARE (MAIN)
GREEN	WALK (MAIN)
BLACK	SPARE (MAIN)
BLUE	SPARE (MAIN)
RED/BLACK	DON'T WALK (SIDE)
AMBER/BLACK	SPARE (SIDE)
GREEN/BLACK	WALK (SIDE)
BLACK/WHITE	SPARE (SIDE)
BLUE/BLACK	SPARE (SIDE)
WHITE/BLACK	SIDE NEUTRAL
WHITE	MAIN NEUTRAL

MANATEE COUNTY TRANSPORTATION DEPARTMENT		WIRE COLOR CODE AND TERMINAL ASSIGNMENT	504.2
REV. BY	DATE		
6/12/07 DATE OF B.O.C.C. APPROVAL			

ROADWAY SIDE



RIGHT-OF-WAY SIDE

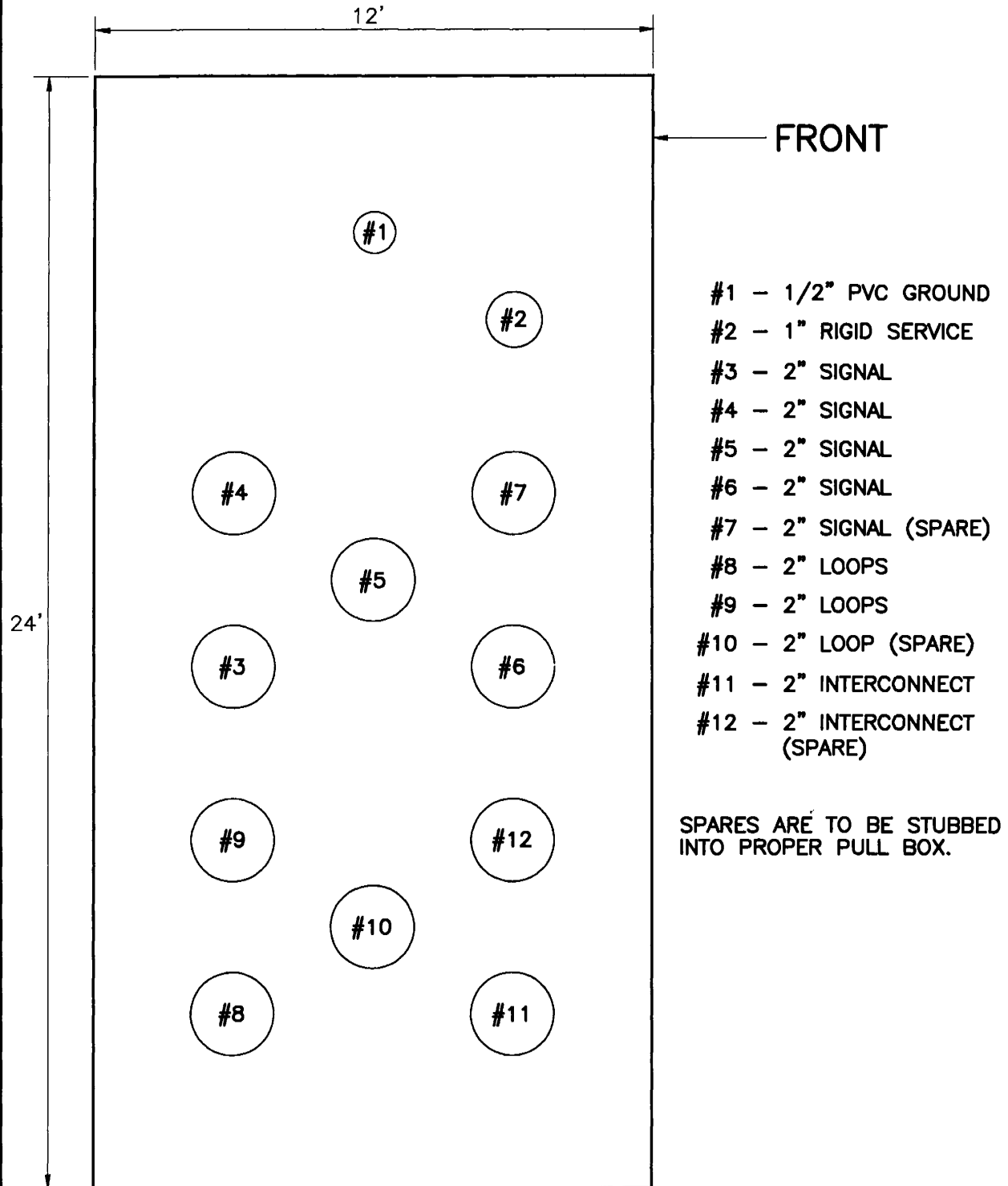
MANATEE COUNTY
TRANSPORTATION DEPARTMENT

REV.BY	DATE

6/12/07
DATE OF B.O.C.C. APPROVAL

**CONTROLLER
CABINET BASE**

505.0



MANATEE COUNTY			CONTROLLER CABINET BASE PIPE LAYOUT	506.0
TRANSPORTATION DEPARTMENT				
REV. BY	DATE	<div>6/12/07</div> <div>DATE OF B.O.C.C. APPROVAL</div>		

VEHICLE DETECTOR LOOP INSTALLATION

LOOPS:

1. ALL LOOP WIRES MUST BE XHHW—I.M.S.A. SPECIFICATION 51—3.
2. CUT STRAIGHT LINES.
3. 2" MINIMUM SLOT COVER.
4. ANGLE CORNERS AS SHOWN IN DIAGRAMS 509, 511 & 513.
5. CENTER LOOPS IN LANES.
6. PUSH WIRE DOWN WITH NON—METALLIC TOOL BEING CAREFUL NOT TO DAMAGE INSULATION.
7. PULL WIRE SNUG, BUT NOT OVERLY TIGHT AT CORNERS.
8. CUT LEAD—IN SLOT AT A RIGHT ANGLE TO THE LANES, NO DIAGONAL CUTS ACROSS THE INTERSECTION SHALL BE ALLOWED.
9. REFERENCE F.D.O.T. SPECIFICATION FOR SEALANT, EXCLUDED STEEP ASPHALT.
10. PREFORMED LOOPS MUST BE PREAPPROVED BY THE TRAFFIC MANAGEMENT DIVISION.

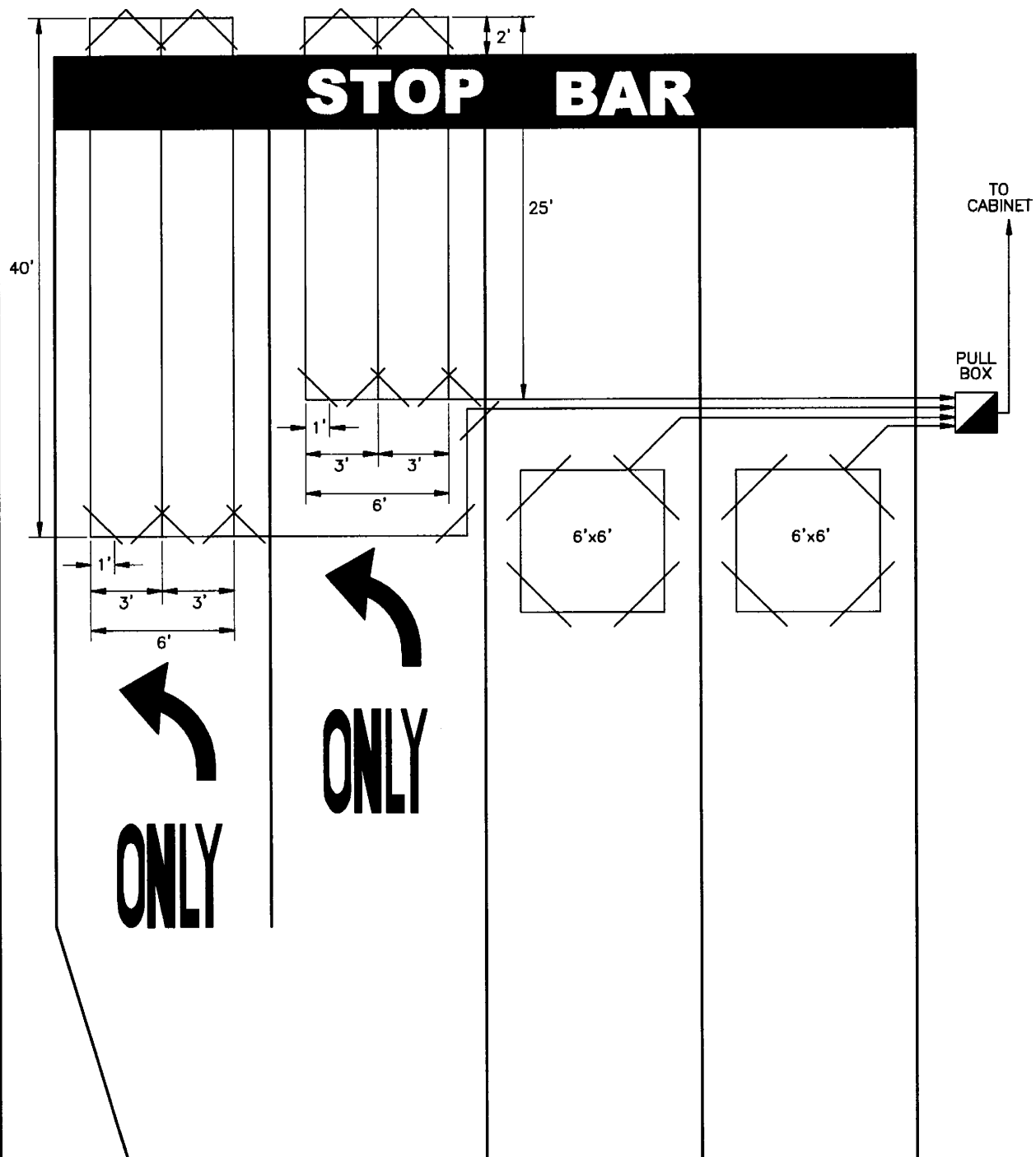
LEAD—INS/HOME—RUNS:

1. LEAD—INS SHALL BE A CONTINUOUS RUN FROM THE FAR PULL BOX INTO THE CABINET.
2. ONLY ONE LOOP SHALL BE ALLOWED PER LEAD—IN.
3. A SEPARATE LEAD—IN SLOT SHALL BE USED FOR EACH LOOP.
4. XHHW LEAD—INS SHALL BE USED FOR EACH LOOP.
5. ALL HOME—RUNS SHALL MEET I.M.S.A. SPECIFICATION 50—2.
6. NO MORE THAN TWO BELDEN LEAD—INS MAY BE PLACED IN SAME SLOT.

PULL BOXES:

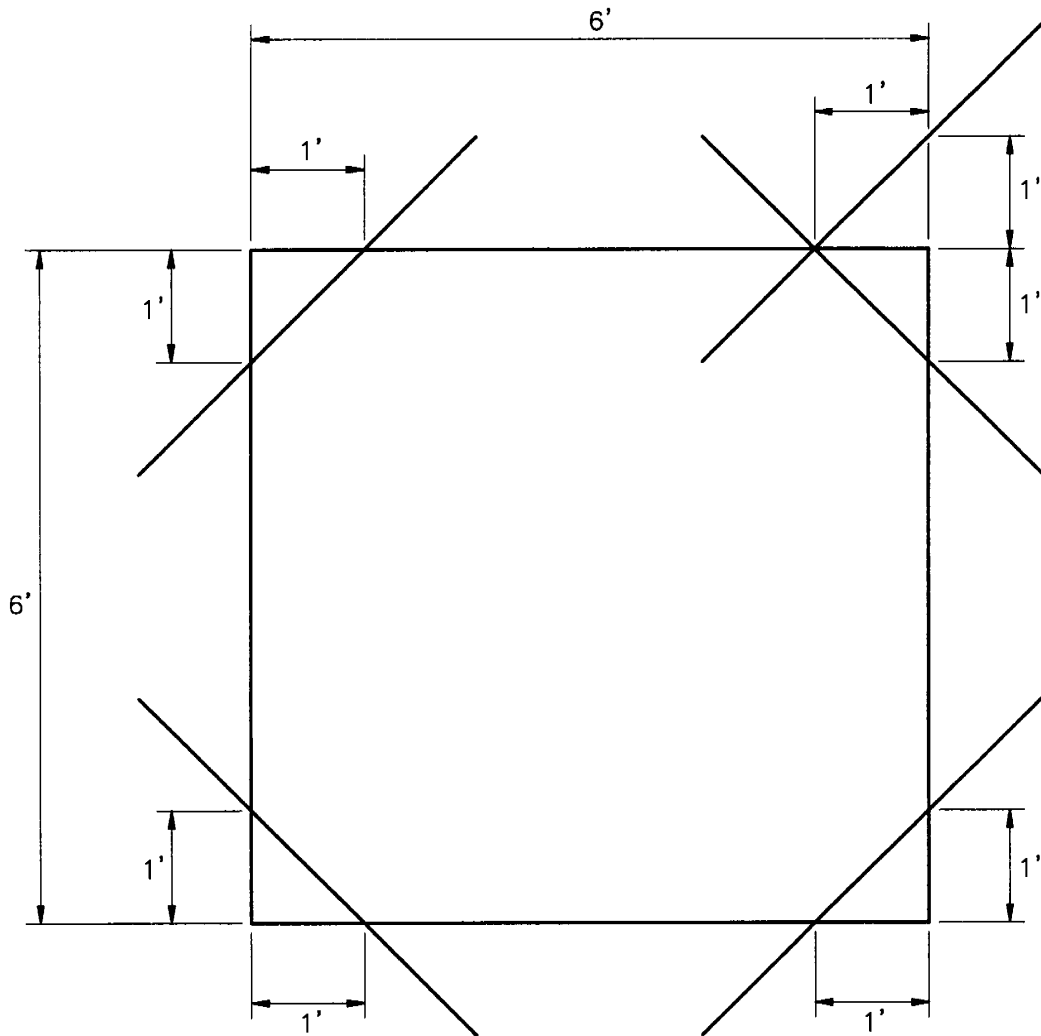
1. SPLICES BETWEEN THE LOOP AND LEAD—IN SHALL BE MADE ONLY IN PULL BOXES.
2. ALL SPLICES SHALL BE CRIMPED AND SOLDERED.
3. USE F.D.O.T. APPROVED WATER TIGHT METHODS.
4. PULL BOXES MUST BE A MINIMUM OF 7' FROM EDGE OF PAVEMENT, IF NO CURB IS PRESENT. PULL BOX MAY BE LOCATED DIRECTLY BEHIND A RAISED CURB.
5. ALL CONDUIT SHALL BE BURIED A MINIMUM OF 36" BELOW GRADE, IF IN A TRAFFIC AREA OR UNDER A ROADWAY.

MANATEE COUNTY		VEHICLE DETECTION LOOP INSTALLATION	507.0
TRANSPORTATION DEPARTMENT			
REV. BY	DATE	6/12/07 DATE OF B.O.C.C. APPROVAL	



MANATEE COUNTY TRANSPORTATION DEPARTMENT			TYPICAL DETECTOR LOOP & PULL BOX LOCATIONS	508.0
REV. BY	DATE	6/12/07		
		DATE OF B.O.C.C. APPROVAL		

- 1) LEAD-IN FROM TOP.
- 2) THREE TURNS OF XHHW PER LOOP.



MANATEE COUNTY
TRANSPORTATION DEPARTMENT

REV. BY DATE

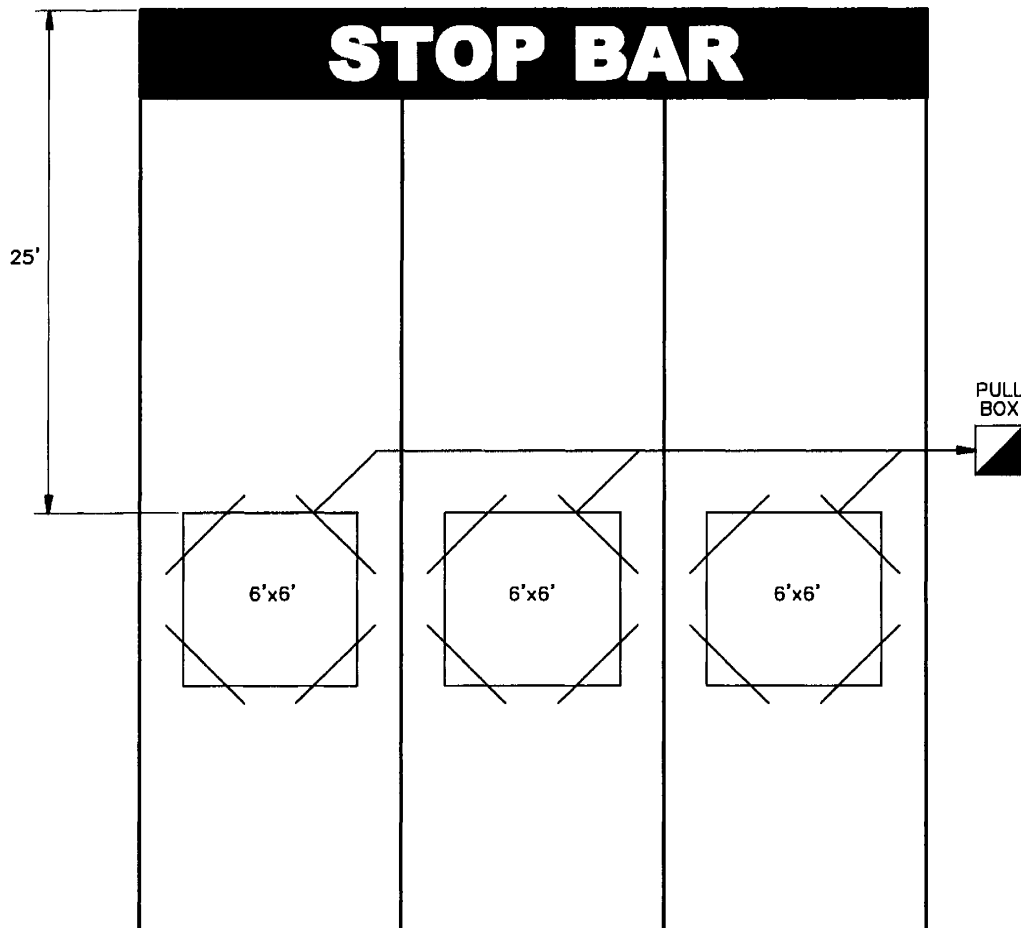
6/12/07

DATE OF B.O.C.C. APPROVAL

TYPE "B" 6'x6'
DETECTOR LOOP

509.0

DISTANCE FROM STOP BAR



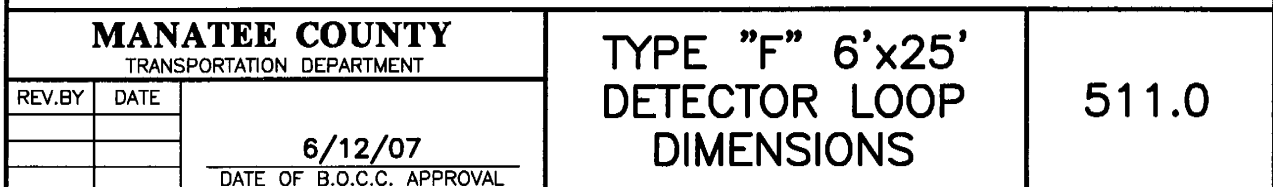
MANATEE COUNTY
TRANSPORTATION DEPARTMENT

REV. BY	DATE

6/12/07
DATE OF B.O.C.C. APPROVAL

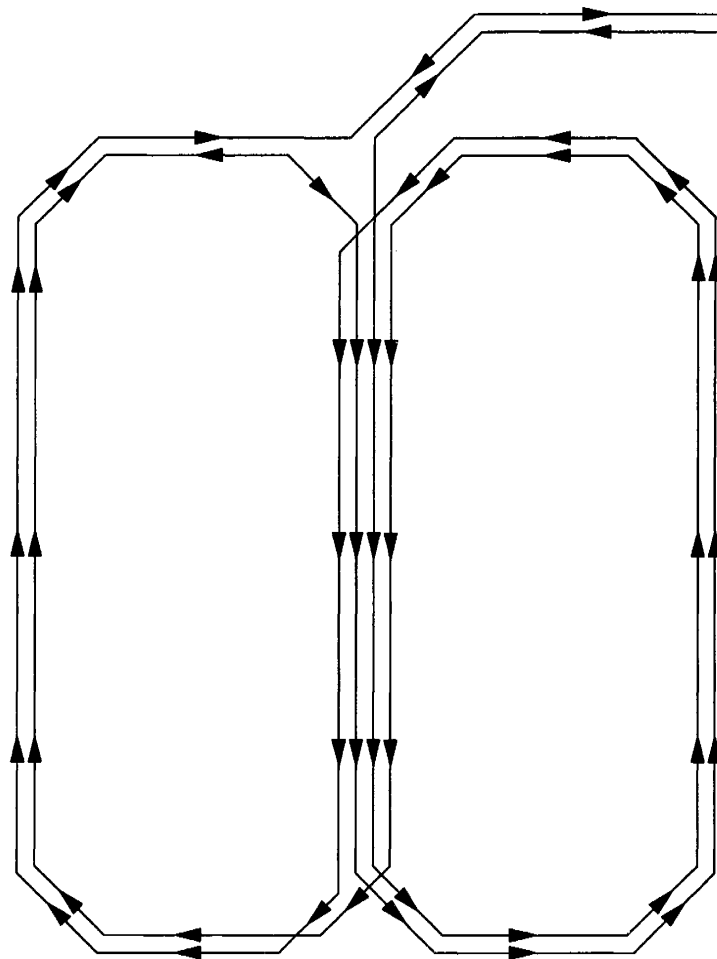
**TYPE "B" DETECTOR
LOOP DIMENSIONS**

510.0



TYPE "F" 6'x25' DETECTOR LOOP WIRING DIAGRAM

- 1) TYPE "F" LOOP WITH LEAD-IN FROM CENTER.
- 2) FOUR WIRES IN CENTER SLOT MUST GO IN SAME DIRECTION.
- 3) TWO WIRES IN OUTSIDE SLOTS MUST GO IN SAME DIRECTION.



MANATEE COUNTY
TRANSPORTATION DEPARTMENT

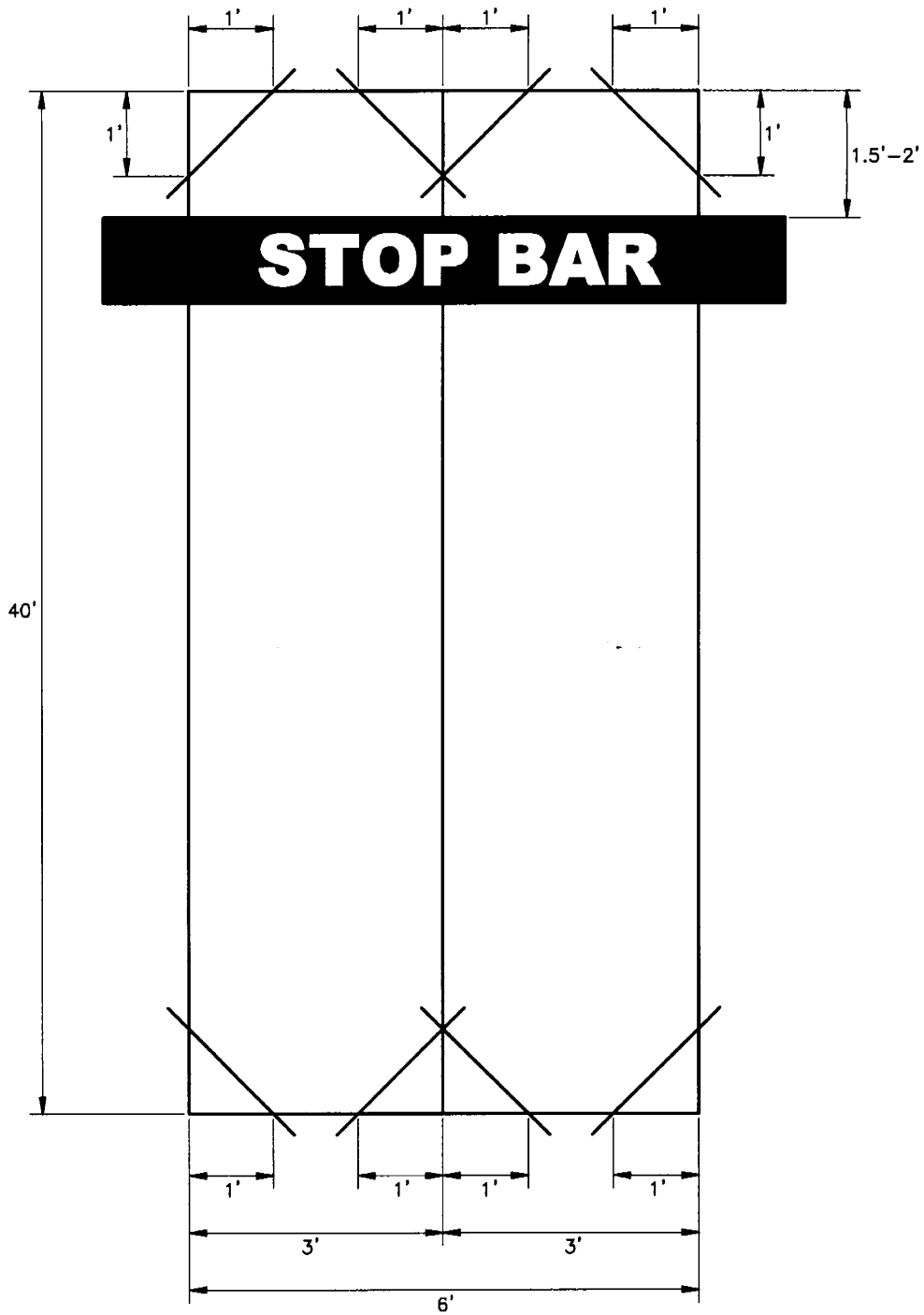
REV. BY	DATE

6/12/07

DATE OF B.O.C.C. APPROVAL

TYPE "F" 6'x25'
DETECTOR LOOP
WIRING DIAGRAM

512.0



MANATEE COUNTY
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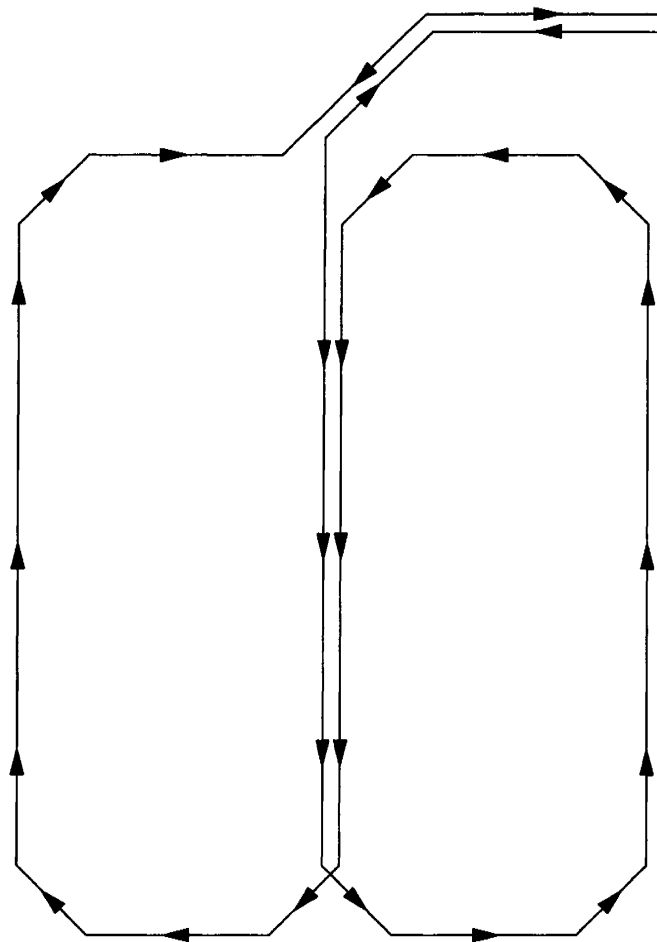
6/12/07

TYPE "F" 6'x40'
DETECTOR LOOP
DIMENSIONS

513.0

TYPE "F" 6'x40' DETECTOR LOOP WIRING DIAGRAM

- 1) TYPE "F" LOOP WITH LEAD-IN FROM CENTER.
- 2) TWO WIRES IN CENTER SLOT MUST GO IN SAME DIRECTION.
- 3) ONE WIRE IN OUTSIDE SLOTS MUST GO IN SAME DIRECTION.



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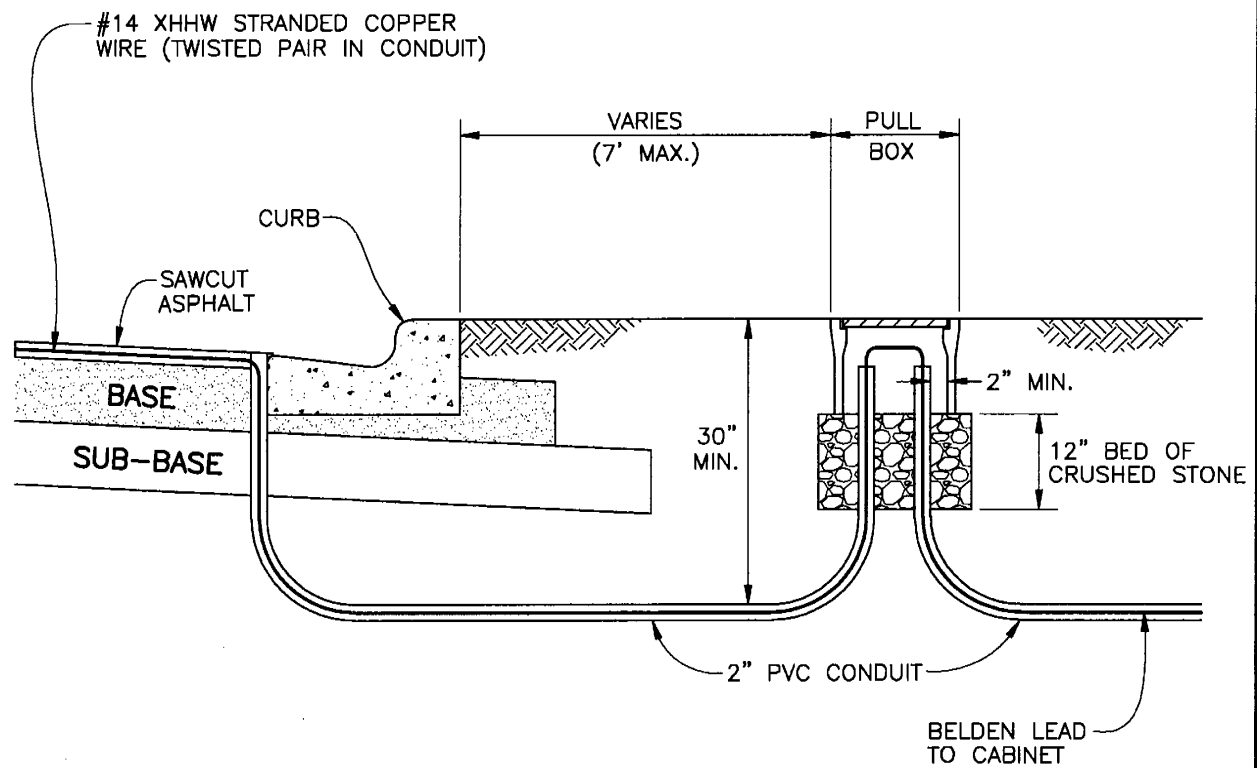
REV. BY DATE

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DATE OF B.O.C.C. APPROVAL

TYPE "F" 6'x40'
DETECTOR LOOP
WIRING DIAGRAM

514.0



MANATEE COUNTY
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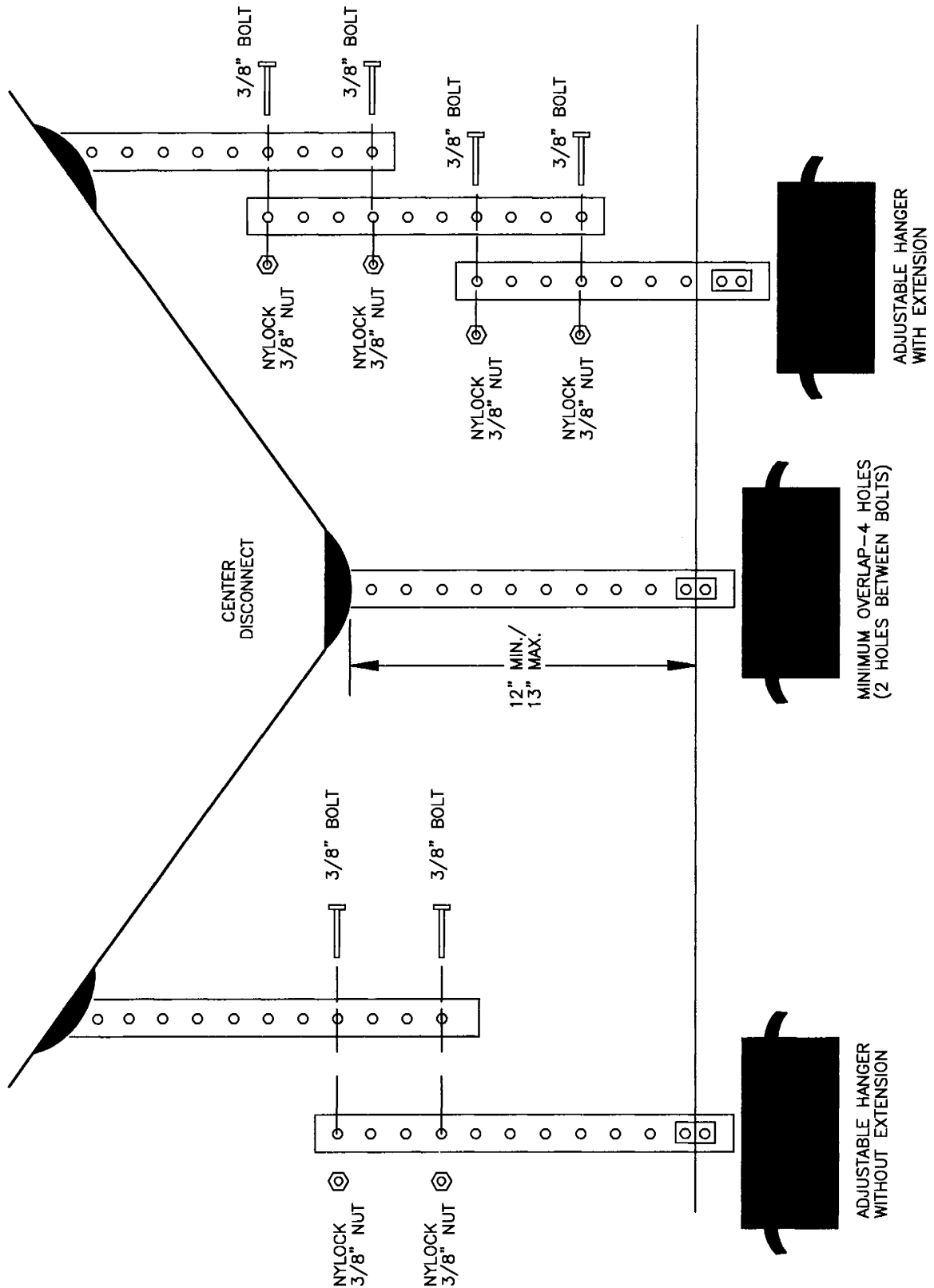
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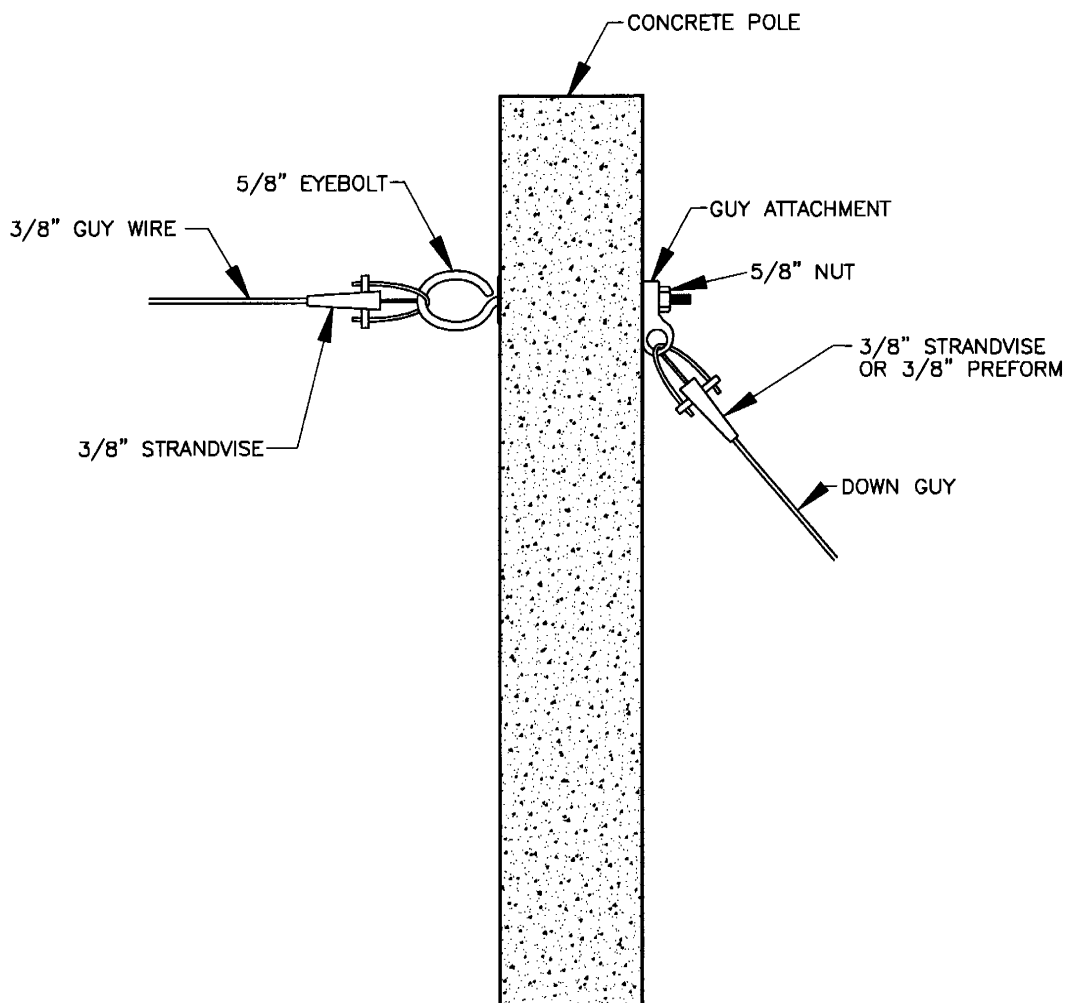
DATE OF B.O.C.C. APPROVAL

**DETECTOR
LOOP LEAD-IN
INSTALLATION**

515.0



MANATEE COUNTY TRANSPORTATION DEPARTMENT			DISCONNECT HANGER INSTALLATION	516.0
REV.BY	DATE	<div>6/12/07</div> <div>DATE OF B.O.C.C. APPROVAL</div>		



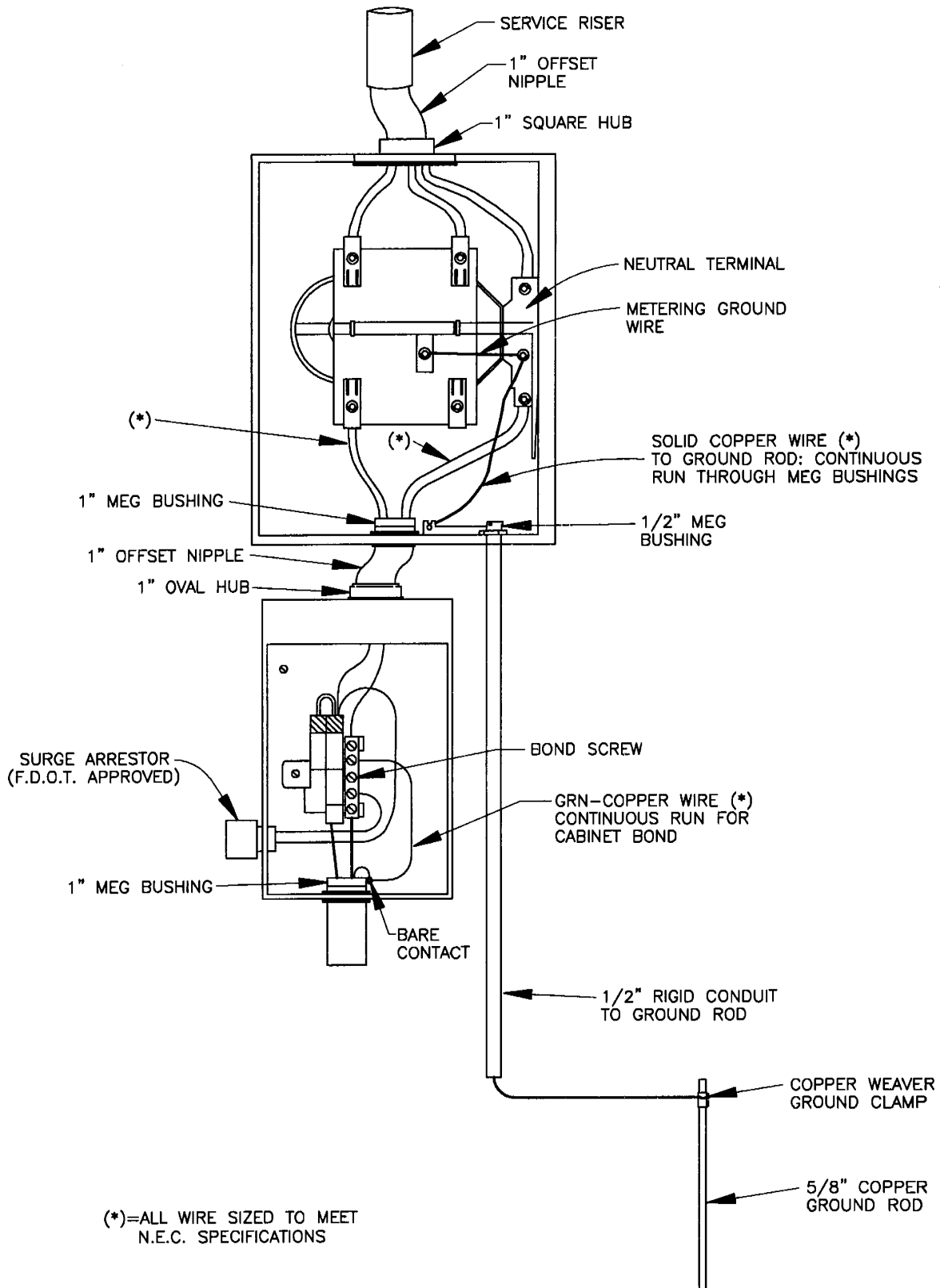
MANATEE COUNTY
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**DOWN GUY
INSTALLATION FOR
CONCRETE POLE**

517.0



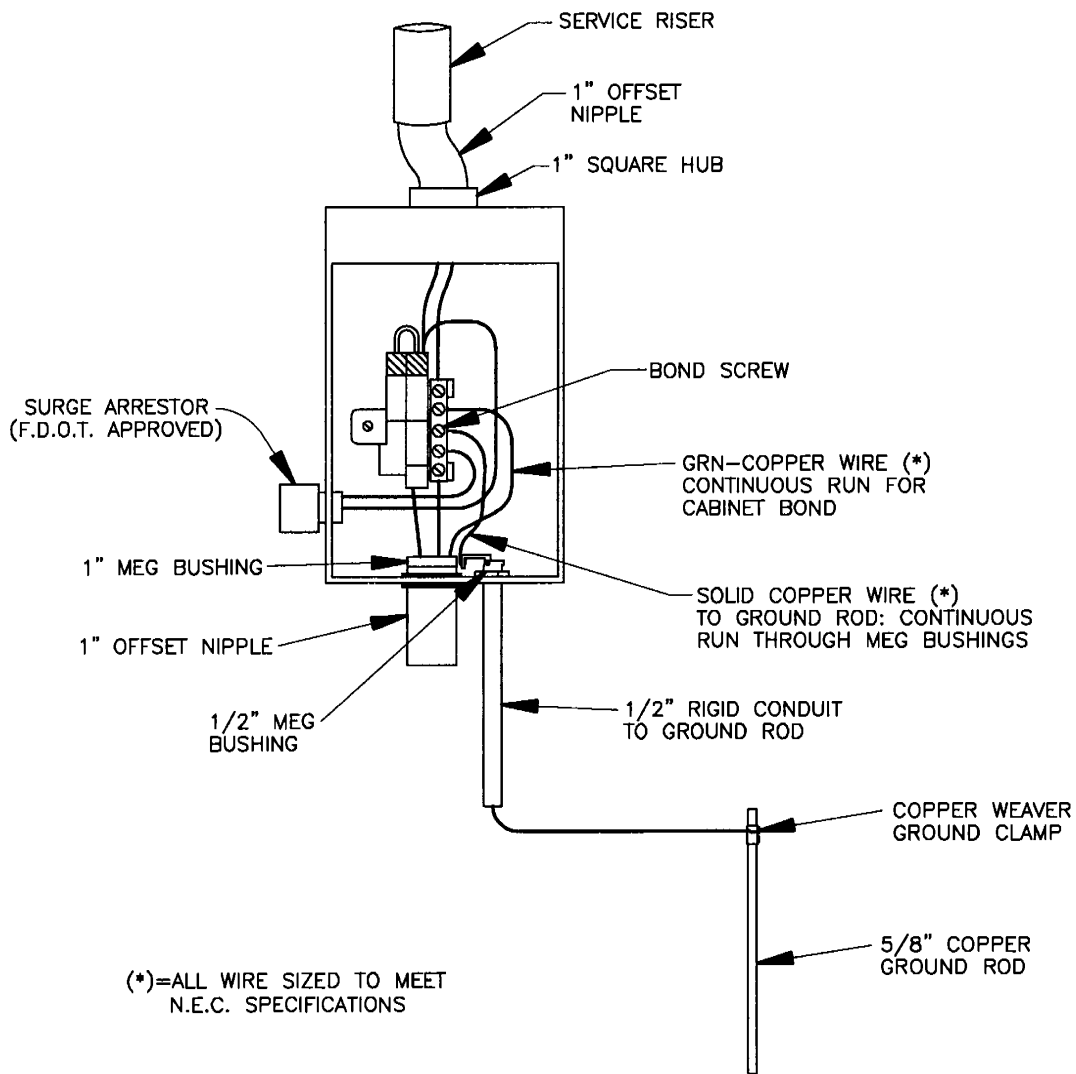
MANATEE COUNTY
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**METER
ELECTRICAL SERVICE
INSTALLATION**

518.0



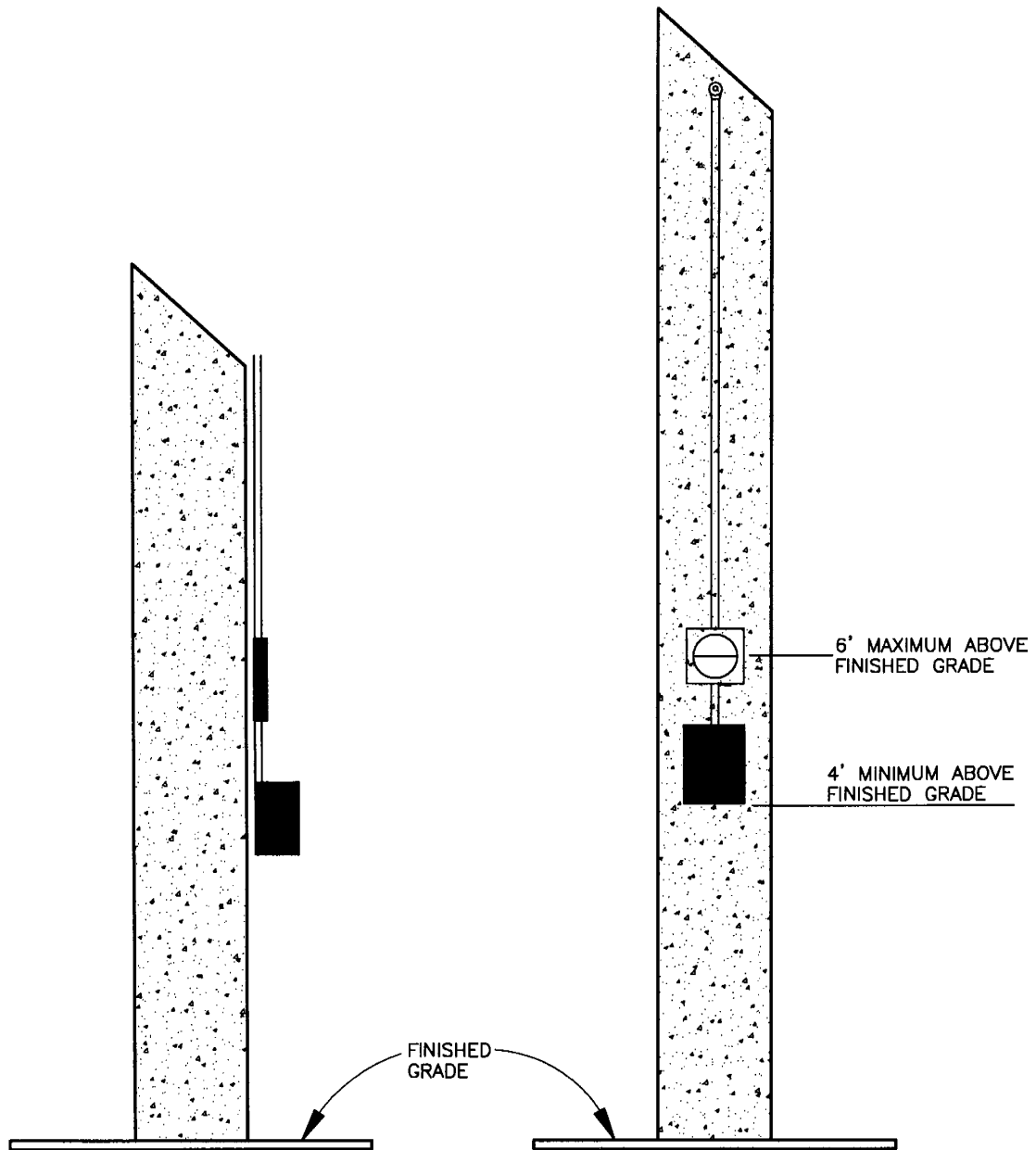
MANATEE COUNTY
TRANSPORTATION DEPARTMENT

DISCONNECT ELECTRICAL SERVICE INSTALLATION

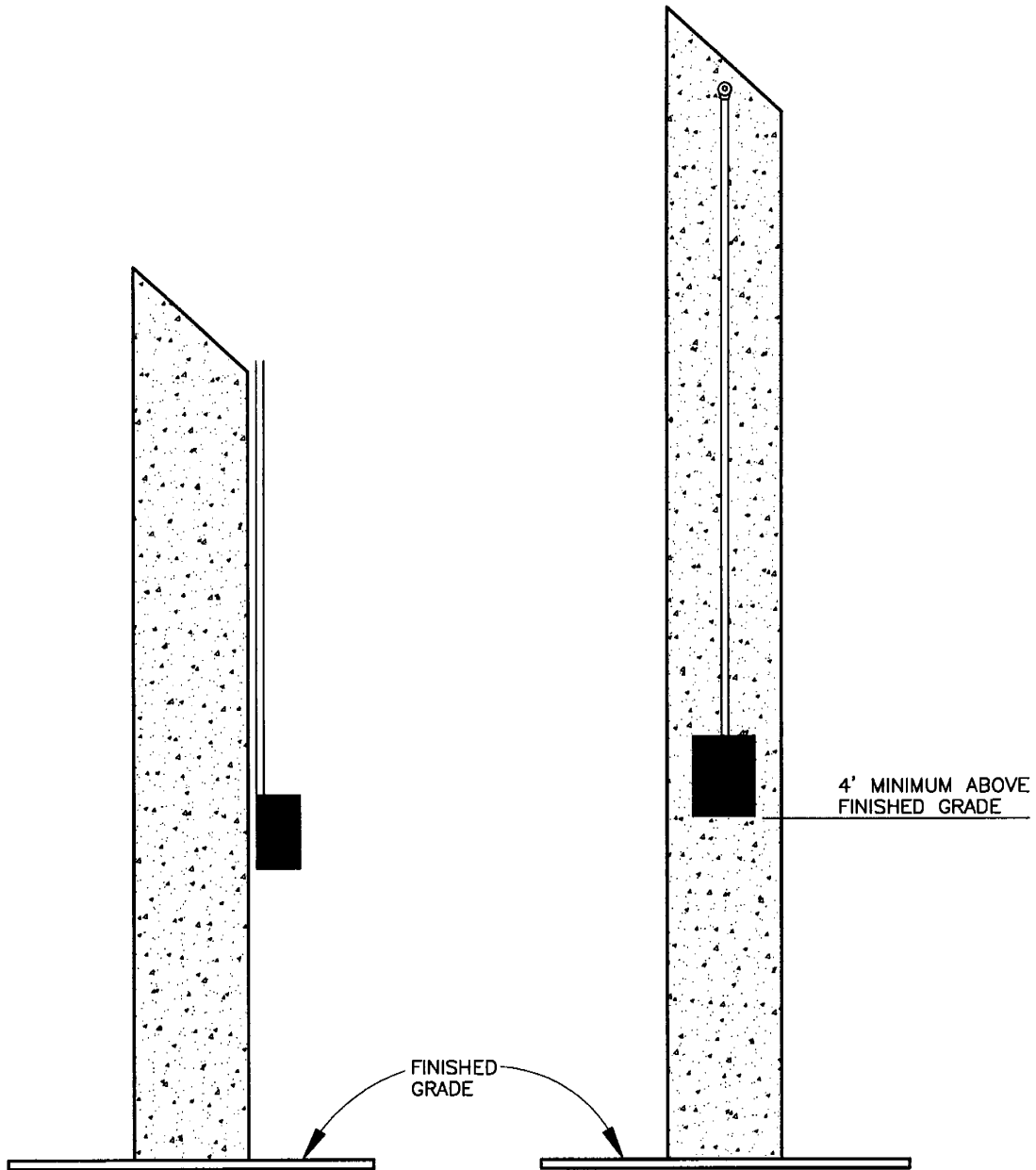
519.0

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MANATEE COUNTY			METER INSTALLATION HEIGHT REQUIREMENTS	520.0
TRANSPORTATION DEPARTMENT				
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MANATEE COUNTY			DISCONNECT INSTALLATION HEIGHT REQUIREMENTS	521.0
TRANSPORTATION DEPARTMENT				
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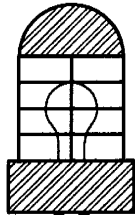
STAND-BY GENERATOR CONFIGURATION GENERAL NOTES

1. WHEN SPECIFIED, TRAFFIC CONTROLLER CABINETS SHALL BE WIRED FOR AUXILIARY GENERATOR OPERATION FOR USE IN PERIODS OF LONG POWER OUTAGES.
2. THE CONTROLLER POWER PANEL SHALL CONTAIN A DUAL 40 AMP CIRCUIT BREAKER ASSEMBLY WITH A MECHANICAL DEVICE TO ALLOW ONLY ONE (1) CIRCUIT BREAKER TO BE SET AT ANY ONE TIME. THE MECHANICAL DEVICE SHALL REQUIRE THAT BOTH CIRCUIT BREAKERS BE PLACED IN THE OFF POSITION BEFORE A TRANSFER FROM ONE BREAKER TO THE OTHER CAN OCCUR.
3. THE CONTROLLER CABINET SHALL HAVE A POWER INPUT CONNECTOR LOCATED ON THE SIDE OF THE CABINET, CLOSEST TO THE CABINET POWER PANEL. THE CONNECTOR SHALL BE STAINLESS STEEL WITH A SCREW-ON PROTECTIVE DUST COVER; THE DUST COVER SHALL BE HINGED TO THE CONNECTOR.
4. FOR PURPOSES OF STANDARDIZATION, THE CABINET CONNECTOR SHALL BE A MARINCO 6371E1 MALE, RATED FOR 50 AMPS AT 125 VOLTS, 3 WIRE.
5. THE MATING FEMALE CONNECTOR SHALL BE A MARINCO 6360CRN WITH MARINCO 7715CRN DUST COVER AND LOCKING RING.
6. THE FEMALE HALF OF THE CONNECTOR NEED NOT BE FURNISHED UNLESS SPECIFICALLY REQUIRED BY THE PLANS AND SPECIFICATIONS.
7. A TAMPER RESTRAINT, RED INDICATOR LIGHT SHALL BE PLACED ON THE OUTSIDE OF THE CABINET AS SHOWN ON THE PLANS, THAT WILL ILLUMINATE WHEN THE NORMAL UTILITY POWER IS RESTORED, AND THE CABINET IS RUNNING ON THE STAND-BY GENERATOR.

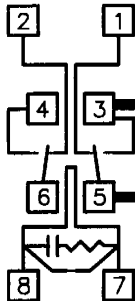
MANATEE COUNTY TRANSPORTATION DEPARTMENT		ALT. POWER SUPPLY REQUIREMENTS UPS/GENERATOR	522.0
REV. BY	DATE		
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STAND-BY GENERATOR CONFIGURATION

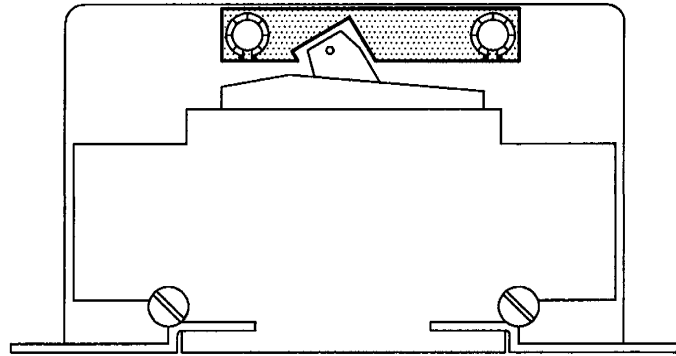
POWER RESTORED
INDICATOR



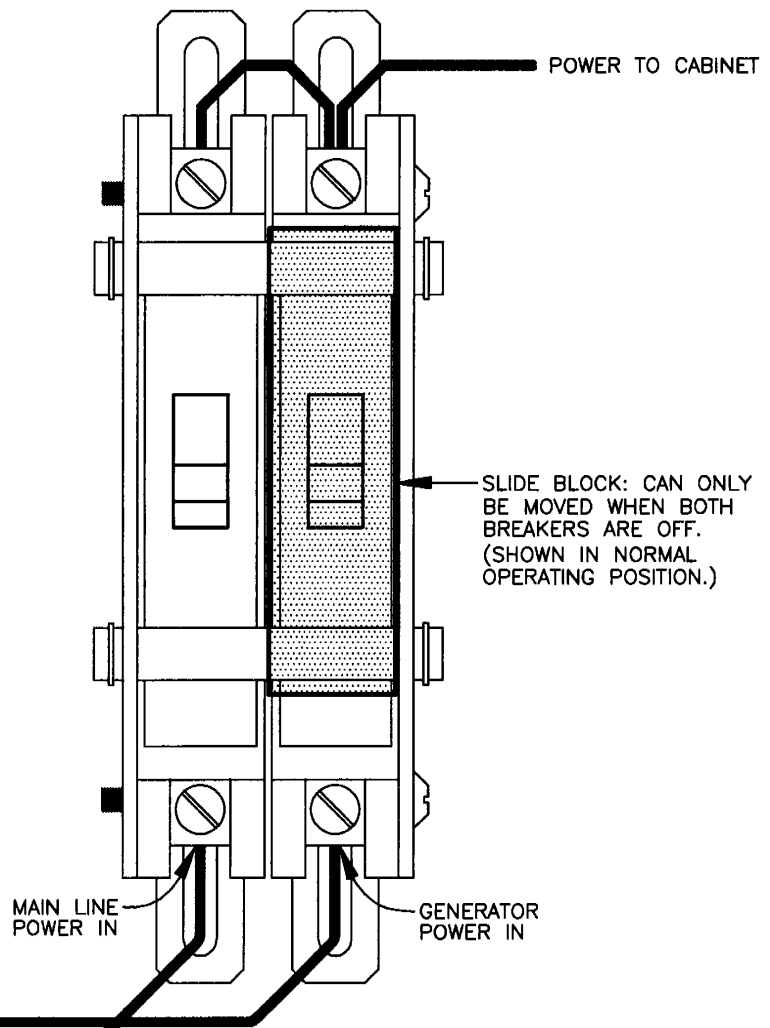
120 VAC
RELAY



A.C.



BREAKER-SIDE VIEW



BREAKER-TOP VIEW

MANATEE COUNTY
TRANSPORTATION DEPARTMENT

REV. BY DATE

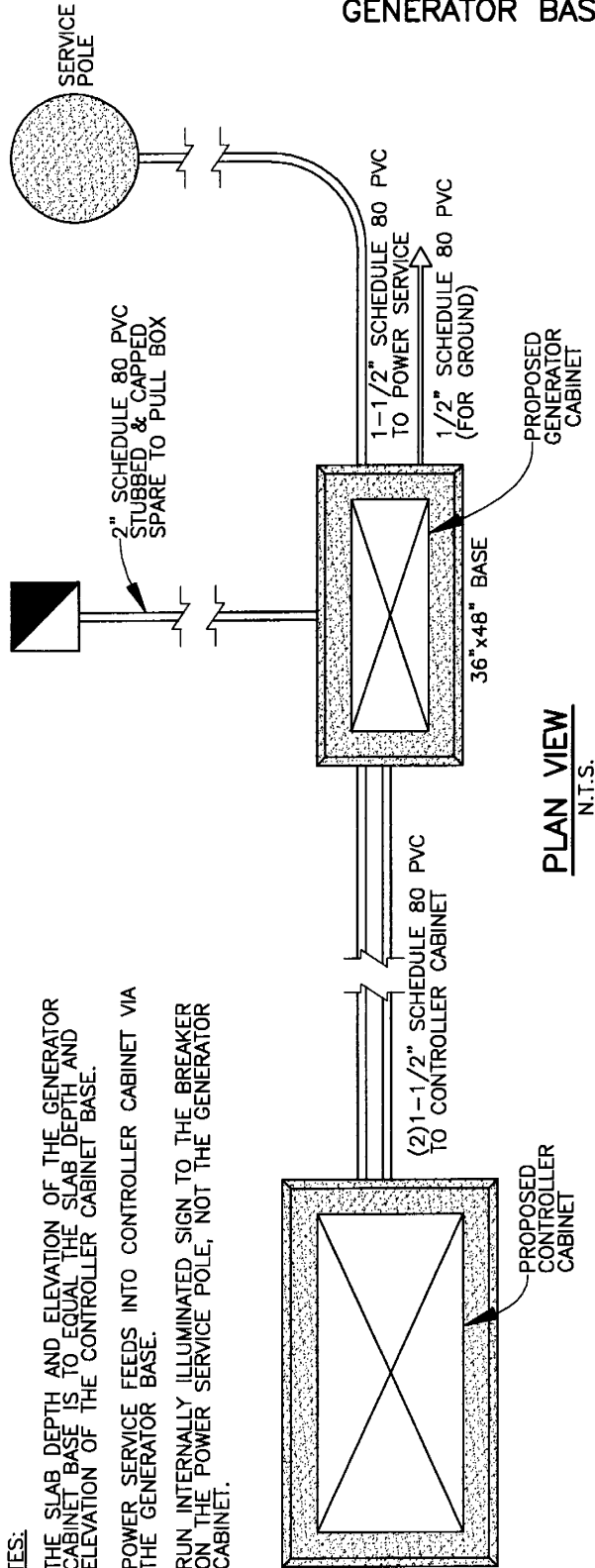
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**ALT. POWER SUPPLY
REQUIREMENTS
UPS/GENERATOR**

522.1

GENERATOR BASE DETAIL SHEET

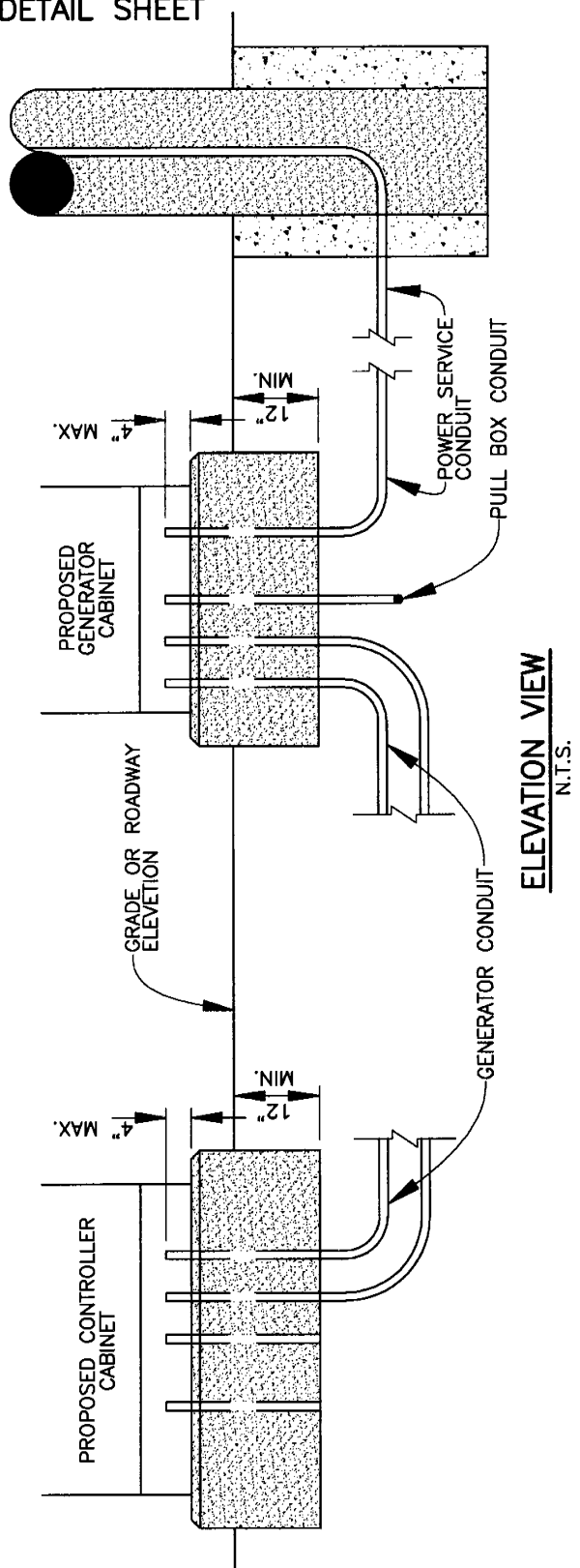


NOTES:

THE SLAB DEPTH AND ELEVATION OF THE GENERATOR CABINET BASE IS TO EQUAL THE SLAB DEPTH AND ELEVATION OF THE CONTROLLER CABINET BASE.

POWER SERVICE FEEDS INTO CONTROLLER CABINET VIA THE GENERATOR BASE.

RUN INTERNALLY ILLUMINATED SIGN TO THE BREAKER ON THE POWER SERVICE POLE, NOT THE GENERATOR CABINET.



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**ALT. POWER SUPPLY
REQUIREMENTS
UPS/GENERATOR**

522.2

UNINTERRUPTIBLE POWER SUPPLY SPECIFICATIONS FOR TRAFFIC CONTROL APPLICATIONS

SCOPE

THE UNINTERRUPTIBLE POWER SUPPLY (UPS) SHALL PROVIDE UNINTERRUPTIBLE RELIABLE EMERGENCY POWER TO A TRAFFIC INTERSECTION CONTROL CABINET IN THE EVENT OF A POWER FAILURE OR INTERRUPTION FOR A PERIOD OF TIME DESIGNATED BY THE AGENCY. THE TRANSFER FROM UTILITY POWER TO BATTERY POWER SHALL BE SEAMLESS AND SHALL NOT INTERFERE WITH THE NORMAL OPERATION OF THE TRAFFIC CONTROLLER, CONFLICT MONITOR OR ANY OTHER PERIPHERAL DEVICES WITHIN THE TRAFFIC CONTROL SYSTEM. THE UPS SYSTEM (WHICH MAY ALSO BE SPECIFIED AS A BATTERY BACK-UP SYSTEM OR BBS) SHALL BE COMPRISED AS NOTED BELOW:

THE SYSTEM SHALL BE CAPABLE OF PROVIDING POWER FOR FULL RUN-TIME OPERATION FOR AN INTERSECTION, FLASHING MODE OPERATION FOR AN INTERSECTION AND A COMBINATION OF BOTH FULL AND FLASH OPERATIONS. THE UNIT SHALL HAVE ALL THE NECESSARY CONTROL CONTACT AVAILABLE (FOR DETAILS REFER TO ITEM 2 IN THIS SPECIFICATION) IN ORDER TO ALLOW THE USER TO SELECT THE MOST SUITABLE MODE COMBINATION BASED ON THE SPECIFIC IMPLEMENTATION.

THE UPS SHALL HAVE A SERIAL PORT INTERFACE AVAILABLE TO ALLOW USER PROGRAMMING OF CERTAIN OPERATIONAL PARAMETERS IN ORDER TO ENSURE COMPATIBILITY WITH THE SPECIFIC INTERSECTION CONTROL EQUIPMENT AS DEPLOYED. THE SERIAL PORT INTERFACE SHALL BE A STANDARD RS232 SERIAL INTERFACE (D9 CONNECTOR) COMPATIBLE WITH A PC SERIAL COMMUNICATIONS PORT AND SHALL BE MOUNTED ON THE FRONT OF THE UPS UNIT.

THE SYSTEM SHALL BE DESIGNATED FOR OUTDOOR APPLICATIONS AND MEET THE ENVIRONMENTAL REQUIREMENTS AS IS STANDARD IN THE TRAFFIC INDUSTRY. THE TEMPERATURE REQUIREMENTS THAT THE UPS SHALL CONFORM TO SHALL BE:

- | | |
|-------------------------|--------------|
| * UPS | -37C TO +74C |
| * POWER TRANSFER SWITCH | -37C TO +74C |
| * MANUAL BYPASS SWITCH | -37C TO +74C |
| * BATTERIES | -37C TO +74C |

1.0 RUN-TIME

- 1.1 THE UNINTERRUPTIBLE POWER SUPPLY SHALL PROVIDE A MINIMUM OF (2) HOURS OF FULL RUN-TIME OPERATION FOR AN INTERSECTION'S ACTIVE OUTPUT CAPACITY WHETHER LED, INCANDESCENT OR ANY COMBINATION OF BOTH LIGHTING TECHNOLOGIES.

THE UPS/BBS SHALL HAVE BOTH CERTIFICATION AND APPROVALS FOR ELECTRICAL SAFETY UL-1778, CSA-107.1, EMI IMMUNITY FCC CLASS A.

2.0 CONTROL CONTACT

- 2.1 UPS SHALL PROVIDE THE USER WITH 5 SETS OF PANEL-MOUNTED POTENTIAL FREE CONTACTS AND BE CLEARLY LABELED SO AS TO IDENTIFY THE USE OF EACH CONTACT.
- 2.2 ONE SET OF CONTACTS SHALL BE ENERGIZED WHENEVER THE UNIT SWITCHES TO BATTERY POWER. THIS SET OF CONTACTS (NO, NC, & COM) SHALL BE LABELED OR MARKED "ON BAT".
- 2.3 THE SECOND AND THIRD SET OF CONTACTS (NO, NC, & COM) SHALL BE ENERGIZED WHENEVER THE BATTERY VOLTAGE APPROACHES APPROXIMATELY 40% (USER FIELD PROGRAMMABLE VIA RS232 INTERFACE) OF REMAINING BATTERY CAPACITY. CONTACTS SHALL BE LABELED OR MARKED "LOW BAT".

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- 2.4 THE FOURTH AND FIFTH SET OF CONTACTS (NO, NC, & COM) SHALL BE ENERGIZED TWO HOURS AFTER THE UNIT SWITCHES TO BATTERY POWER. THIS FEATURE CAN BE ENABLED/DISABLED VIA THE RS 232 INTERFACE. CONTACTS SHALL BE LABELED OR MARKED "TIMER".

3.0 LOAD TRANSFER

THE UPS SYSTEM SHALL INCLUDE A MANUAL BYPASS SWITCH SO THAT UPS FIELD REPLACEMENT CAN BE ON A "HOT-SWAP" BASIS.

AN OPTIONAL POWER TRANSFER SWITCH (PTS) SHALL BE AVAILABLE TO BE USED IN APPLICATIONS WHERE NORMAL OPERATION EXCEEDS THE MAXIMUM UPS OUTPUT CAPACITY AND A "RED FLASH" BACK-UP IMPLEMENTATION IS USED.

4.0 PRODUCT COMPATABILITY

- 4.1 UPS/BBS SHALL BE COMPATIBLE WITH ALL OF THE FOLLOWING TYPES OF INTERSECTION CONTROL EQUIPMENT FOR FULL OPERATION, FLASH OPERATION OR A COMBINATION OF SUCH. ACTUAL MODE OF IMPLEMENTATION IS ACHIEVED VIA USAGE OF THE CONTROL CONTACTS AND DEPENDENT ON THE SPECIFIC EQUIPMENT CONFIGURATION SUPPORTED AT THE INTERSECTION.

- * NEMA TS-1 CONTROLLERS AND CABINETS
- * NEMA TS-2 CONTROLLERS AND CABINETS
- * VMS (VARIABLE MESSAGE SIGNS)
- * TYPE 2070 CONTROLLERS
- * ITS CABINETS
- * HAR (HIGHWAY ADVISORY RADIO CABINETS)
- * SYSTEM SAMPLING CABINETS
- * SYSTEM VOLUME, OCCUPANCY, CLASSIFICATION CABINETS

- 4.2 COMPLETE UPS SYSTEM INCLUDING BATTERIES SHALL FIT PEDESTAL OR BASE MOUNTED CABINETS SPECIFICALLY DESIGNED TO HOUSE THE UPS, 4 EACH 100 AH SEALED LEAD/ACID BATTERIES AND PTS. THE CABINET SHALL BE FABRICATED FROM THE SAME MATERIAL AS THE CONTROLLER CABINET AND CONTAIN ITS OWN 100 CU. FT. PER MINUTE, THERMOSTATICALLY CONTROL FAN AND FILTER.

5.0 UPS SWITCHOVER CHARACTERISTICS-FULL FIELD PROGRAMMABILITY

THE UPS SWITCHOVER CHARACTERISTICS SHALL BE FIELD PROGRAMMABLE IN ORDER TO BE COMPATIBLE WITH THE SPECIFIC INTERSECTION CONTROL EQUIPMENT DEPLOYED. THE FOLLOWING PROGRAMMABLE CONTROLS SHALL BE AVAILABLE (FACTORY DEFAULT VALUES SHOWN):

- * LINE DETECTION-LOW LINE CUT-OFF (100V +/-3)
- * LINE DETECTION-LOW LINE RETURN (105V +/-3)
- * LINE DETECTION-HIGH LINE CUT-OFF (130V +/-3)
- * LINE DETECTION-HIGH LINE RETURN (128V +/-3)
- * RETURN TO LINE MODE AFTER RE-QUALIFICATION (128V +/-3)

6.0 BACK-FEED AND OTHER PROTECTIONS

- 6.1 UPS SHALL BE EQUIPPED TO PREVENT A MALFUNCTION FEEDBACK TO THE CABINET OR FROM FEEDING BACK TO THE UTILITY SERVICE PER UL 1778, SECTION 48 "BACK-FEED PROTECTION TEST".

- 6.2 UPS SHALL HAVE LIGHTNING SURGE PROTECTION COMPLIANT WITH IEEE/ANSI C.62.41.

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**UNINTERRUPTIBLE
POWER SUPPLY
SPECIFICATIONS**

522.4

7.0 MOUNTING/CONFIGURATION

- 7.1 MOUNTING METHOD SHALL BE SHELF MOUNT, RACK-MOUNT, SWING-TRAY MOUNT OR COMBINATION THEREOF.
- 7.2 ALL NECESSARY HARDWARE FOR MOUNTING (SHELF ANGLES, RACK, SHELVEING, HARNESS, ETC.) SHALL BE INCLUDED IN THE BID PRICE FOR THE UPS.
- 7.3 EXTERNAL BATTERY CABINETS MAY BE USED TO MEET ADEQUATE ENVIRONMENTAL AND PHYSICAL REQUIREMENTS.

8.0 FUNCTIONALITY, DISPLAYS, CONTROLS, DIAGNOSTICS AND MAINTENANCE

- 8.1 THE UPS SHALL INCLUDE A DISPLAY (STATUS MONITOR) AND/OR METER TO INDICATE CURRENT BATTERY CHARGE STATUS AND CONDITIONS.
- 8.2 UPS SHALL BE EASILY INSTALLED AND REPLACED (COMPLETE TURNKEY SYSTEM WITH ALL NECESSARY HARDWARE) AND SHALL NOT REQUIRE ANY SPECIAL TOOLS FOR INSTALLATION.
- 8.3 UPS SHALL INCLUDE A RESET ABLE FRONT-PANEL EVENT COUNTER DISPLAY TO INDICATE THE NUMBER OF TIMES THE UPS WAS ACTIVATED, AND A FRONT-PANEL HOUR METER TO DISPLAY THE TOTAL NUMBER OF HOURS THE UNIT HAS OPERATED ON BATTERY POWER.
- 8.4 UPS INVERTER MODULE SHALL INCLUDE A SERIAL PORT ALLOWING FIELD PROGRAMMABILITY OF INPUT/OUTPUT VOLTAGE VALUES, SELF-TESTING, COMMUNICATIONS AND DIAGNOSTICS. SOFTWARE TO RETRIEVE DATA, TROUBLESHOOT AND PROGRAM THE UPS SYSTEM SHALL BE ASCII FORMAT AND BE INCLUDED AS A PART OF THE SYSTEM.

9.0 BATTERY SYSTEM

- 9.1 INDIVIDUAL BATTERIES SHALL BE 12V TYPE AND SHALL BE EASILY REPLACED AND COMMERCIALY AVAILABLE OFF THE SHELF.
- 9.2 BATTERIES SHALL BE EXTREME TEMPERATURE, DEEP CYCLE, SEALED PRISMATIC LEAD-CALCIUM BASED AGM/VRLA (ABSORBED GLASS MAT/VALVE REGULATED LEAD ACID) BATTERIES.
- 9.3 BATTERIES SHALL BE CERTIFIED TO OPERATE OVER A TEMPERATURE RANGE OF -25 DEGREES "C" TO +74 DEGREES "C".
- 9.4 THE BATTERIES SHALL BE PROVIDED WITH APPROPRIATE INTERCONNECT WIRING AND A CORROSION RESISTANT STATIONARY OR SWING-OUT MOUNTING TRAY AND/OR BRACKETS APPROPRIATE FOR THE CABINET INTO WHICH THEY WILL BE INSTALLED.
- 9.5 BATTERIES SHALL INDICATE MAXIMUM RECHARGE DATA AND RECHARGING CYCLES.
- 9.6 RECHARGE TIME FOR THE BATTERY, FROM PROTECTIVE LOW CUT-OFF TO 80% OR MORE OF FULL BATTERY CHARGE CAPACITY, SHALL NOT EXCEED TWENTY (20) HOURS.
- 9.7 THE BATTERY SYSTEM SHALL CONSIST OF A TEMPERATURE COMPENSATED SWITCH MODE CHARGER (-4mV/C/CELL, MICROPROCESSOR CONTROLLED). IT SHALL ALSO INCLUDE A HIGH TEMPERATURE CUT-OFF POINT 50C +/-3 ABOVE WHICH ALL BATTERY CHARGING OPERATIONS WILL BE SUSPENDED.

10.0 SERVICE AND WARRANTY

- 10.1 MANUFACTURER SHALL PROVIDE A TWO (2) YEAR FACTORY-REPAIR WARRANTY FOR PARTS AND LABOR ON THE UPS.

MANATEE COUNTY		UNINTERRUPTIBLE POWER SUPPLY SPECIFICATIONS	522.5
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10.2 MANUFACTURER SHALL HAVE FIELD SERVICE TECHNICIANS TRAINED IN TRAFFIC CONTROL TECHNOLOGY AVAILABLE, AND THAT CAN BE REACHED VIA A TOLL-FREE SERVICE LINE.

11.0 ELECTRICAL SPECIFICATIONS

INPUT SPECIFICATIONS
NORMAL INPUT VOLTAGE
INPUT VOLTAGE RANGE
INPUT FREQUENCY

120VAC, SINGLE PHASE
100VAC TO 130VAC
60Hz (+/-5%)

OUTPUT SPECIFICATIONS
NOMINAL OUTPUT VOLTAGE

120VAC (875 WATTS) 2KVA (1500 WATTS)

OUTPUT FREQUENCY
VOLTAGE WAVE FORM
EFFICIENCY

60Hz (+/-5%)
SINE
95-97%

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**UNINTERRUPTIBLE
POWER SUPPLY
SPECIFICATIONS**

522.6

MATERIAL SPECIFICATIONS FOR SOLAR POWERED SCHOOL FLASHERS

1.0 GENERAL

- 1.1 THIS SPECIFICATION DESCRIBES THE VARIOUS COMPONENTS OF SOLAR POWERED SCHOOL FLASHERS TO BE USED BY THE TRAFFIC SIGNAL SECTION OF MANATEE COUNTY. THE SOLAR POWERED SCHOOL FLASHERS SHALL MEET OR EXCEED ALL OF THE SPECIFICATIONS INDICATED BELOW.

SYSTEM MUST BE COMPATIBLE WITH AND PROGRAMMABLE SIMILAR TO MANATEE COUNTY'S EXISTING PAGER PROGRAMMABLE TIME SWITCH SYSTEM.

2.0 SOLAR PANEL ARRAY (53 WATT)

- 2.1 THE SOLAR PANEL ARRAY SHALL CONSIST OF ONE (1) OR MORE SOLAR PANELS. THE NUMBER OF SOLAR PANELS REQUIRED WILL BE DETERMINED BY THE FOLLOWING:
- A. NUMBER AND WATTAGE OF SIGNAL INDICATIONS
 - B. HOURS OF OPERATION PER DAY
 - C. NUMBER OF DAYS OF OPERATION PER WEEK
 - D. AVERAGE HOURS OF SUN PER DAY (WINTER)
- 2.2 EACH SOLAR PANEL SHALL BE ULTRA-HIGH EFFICIENT TYPE MADE OF SUPERIOR QUALITY ENCAPSULATION MATERIALS. EACH INDIVIDUAL SOLAR PANEL SHALL GENERATE A NOMINAL 53 WATTS OF POWER IN DIRECT SUNLIGHT AT A TYPICAL OPERATION VOLTAGE OF 16.5 VOLTS WITH AN OPTIMUM CURRENT RATING OF 3.0 AMPS.
- 2.3 EACH SOLAR PANEL CELL SHALL BE BYPASS DIODE PROTECTED FOR EFFICIENT OPERATION IN HARSH OR PARTIAL FOLIAGE COVERING. THE CURRENT OUTPUT OF THE SOLAR PANEL SHALL NOT DROP MORE THAN 10% WITH A 4"x4" AREA OF THE SOLAR PANEL COVERED TO SIMULATE THE EFFECTS OF SHADOWING.
- 2.4 THE FRONT SURFACE OF THE SOLAR PANEL SHALL BE MANUFACTURED WITH LOW IRON TEMPERED GLASS FRONT FOR STRENGTH AND SUPERIOR LIGHT TRANSMISSION.
- 2.5 EACH SOLAR PANEL SHALL BE FRAMED WITH A RUGGED ANODIZED ALUMINUM FRAME AND A TOUGH, MULTI-LAYERED POLYMER BACK SHEET.
- 2.6 A WEATHER RESISTANT JUNCTION BOX SHALL BE PROVIDED FOR CONNECTION OF THE WIRES TO THE CABINET ASSEMBLY. THE JUNCTION BOX SHALL BE LOCATED SUCH THAT EACH ACCESS CAN BE ACHIEVED.
- 2.7 THE OVERALL DIMENSIONS OF EACH PANEL SHALL BE APPROXIMATELY 40"Lx18"W AND EACH PANEL SHALL WEIGH LESS THAN 10 POUNDS.
- 2.8 THE SOLAR PANEL ARRAY SHALL BE EQUIPPED WITH A MOUNTING BRACKET FOR AFFIXING THE SOLAR PANELS TO THE TOP OF A 4" OD PEDESTAL POLE. THE MOUNTING BRACKET SHALL BE A PELCO MODEL AB-3010 TENNON MOUNT CLAMP KIT OR APPROVED EQUAL.
- 3.0 12DV SOLID STATE TIME SWITCH SYSTEM, PAGER PROGRAMMABLE
- 3.1 PURPOSE:

THIS SPECIFICATION SETS THE MINIMUM ACCEPTABLE REQUIREMENTS, MATERIALS AND WORKMANSHIP FOR A SOLID STATE TIME SWITCH THAT IS PROGRAMMABLE USING EXISTING PAGER TECHNOLOGY.

MANATEE COUNTY		MATERIAL SPECS SOLAR POWERED SCHOOL FLASHERS	523.0
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3.2 PAGER PROGRAMMABLE TIME SWITCH

3.2.1 THE TIME SWITCH UNIT SHALL HAVE A WIRELESS PAGER MODULE ABLE TO RECEIVE PROGRAMS AND COMMANDS GENERATED BY A TIME SWITCH-PROGRAMMING DEVICE THROUGH A LOCAL PAGER SERVICE. IT SHALL BE COMPATIBLE WITH COMMERCIAL 900 MHZ FREQUENCY RANGE ALPHANUMERIC PAGING SERVICES USING FLEX PROTOCOL. TIME SWITCH PROGRAMMING SOFTWARE SHALL BE PROVIDED TO SET AND RESET THE CAPCODE AND FREQUENCY IN THE PAGER MODULE.

3.2.2 THE PAGER MODULE SHALL WORK AS A RADIO MODEM FOR THE TIME SWITCH. WHEN THE PAGER MODULE RECEIVES A MESSAGE IT WILL PASS THE MESSAGE TO THE TIME SWITCH FOR DECODING. ALL ADDRESSING (EXCEPT CAPCODE), TIMING AND ON/OFF COMMAND DECISIONS SHALL BE MADE BY THE TIME SWITCH AND NOT BY THE PAGER MODULE.

3.2.3 THE TIME SWITCH SHALL BE CAPABLE OF RECEIVING AND RUNNING THE FOLLOWING PROGRAMS VIA THE PAGING NETWORK.

3.2.3a DEFAULT WEEK PLAN - THE DEFAULT WEEK PLAN IS A SEVEN-DAY PROGRAM WITH UP TO 24 PROGRAM STEPS FOR CONTROLLING THE OUTPUT RELAY OF THE TIME SWITCH. THE TIME SWITCH STORES THE DEFAULT WEEK PLAN AND AUTOMATICALLY RUNS THIS PLAN WHEN IT IS RECEIVED OVER THE PAGING NETWORK OR WHEN AN ALTERNATE WEEK OR OVERRIDE PLAN EXPIRES. IF THE TIME SWITCH RECEIVES A NEW DEFAULT WEEK PLAN OVER THE PAGING NETWORK IT WILL REPLACE THE OLD PLAN WITH THE NEW PLAN AND IMMEDIATELY START RUNNING THE NEW PLAN.

3.2.3b ALTERNATE WEEK PLAN - AN ALTERNATE WEEK PLAN IS A SEVEN-DAY PROGRAM WITH UP TO 24 PROGRAM STEPS FOR CONTROLLING THE OUTPUT RELAY OF THE TIME SWITCH. AN ALTERNATE WEEK PLAN RUNS INSTEAD OF THE DEFAULT WEEK PLAN UNTIL THE ALTERNATE WEEK PLAN EXPIRES. THE TIME SWITCH SHALL IMMEDIATELY START RUNNING THE OVERRIDE PLAN WHEN IT IS RECEIVED OVER THE PAGING NETWORK. THE TIME SWITCH SHALL REVERT BACK TO EITHER THE DEFAULT OR ALTERNATE WEEK PLAN (WHICHEVER WAS RUNNING AT THE TIME THE OVERRIDE WAS RECEIVED) AT MIDNIGHT OF THE SAME DAY OR IF A PAGE IS DOWNLOADED THAT CANCELS THE OVERRIDE PLAN.

3.2.3c OVERRIDE PLAN - AN OVERRIDE PLAN IS A ONE-DAY PROGRAM WITH UP TO 24 PROGRAM STEPS FOR CONTROLLING THE OUTPUT RELAY OF THE TIME SWITCH. AN OVERRIDE PLAN RUNS INSTEAD OF THE DEFAULT OR ALTERNATE WEEK PLAN UNTIL THE OVERRIDE PLAN EXPIRES. THE TIME SWITCH SHALL IMMEDIATELY START RUNNING THE OVERRIDE PLAN WHEN IT IS RECEIVED OVER THE PAGING NETWORK. THE TIME SWITCH SHALL REVERT BACK TO EITHER THE DEFAULT OR ALTERNATE WEEK PLAN (WHICHEVER WAS RUNNING AT THE TIME THE OVERRIDE PLAN WAS RECEIVED) AT MIDNIGHT OF THE SAME DAY OR IF A PAGE IS DOWNLOADED THAT CANCELS THE OVERRIDE PLAN.

3.2.3d TIME SET - THE DAY-OF-WEEK, HOUR AND MINUTE OF THE TIME SWITCH SHALL BE SET AND RESET OVER THE PAGING NETWORK. WHEN A TIME SET PAGE IS RECEIVED, THE TIME SWITCH SHALL IMMEDIATELY ADJUST ITS INTERNAL CLOCK ACCORDINGLY.

3.2.3e SETUP TIME SWITCH - THE TIME SWITCH SHALL ACCEPT A SINGLE PAGE THAT WILL DOWNLOAD ALL OF THE OPERATING PARAMETERS TO INCLUDE ADDRESSING, DAY-OF-WEEK AND TIME-OF-DAY, DEFAULT WEEK PLAN AND ALTERNATE WEEK PLAN PROGRAMMING.

3.2.3f IF A TIME SWITCH IS BEING PROGRAMMED FOR THE FIRST TIME USING ON-AIR ADDRESSING, THE SYSTEM SHALL DOWNLOAD THE NEW GROUP AND LOCATION ADDRESS. THE DAY AND TIME-OF-DAY, THE DEFAULT WEEK PLAN FOR THE GROUP AND AN ALTERNATE WEEK PLAN FOR THE GROUP WITH A SINGLE PAGE.

3.2.3g IF A TIME SWITCH IS BEING MOVED FROM ONE GROUP ADDRESS TO ANOTHER GROUP ADDRESS, THE SYSTEM SHALL DOWNLOAD ADDRESS CHANGE, THE DAY AND TIME-OF-DAY, THE DEFAULT WEEK PLAN FOR THE NEW GROUP AND AN ALTERNATE WEEK PLAN FOR THE NEW GROUP WITH A SINGLE PAGE.

3.2.3h IF PROGRAMMING A TIME SWITCH WITHOUT CHANGING ITS PRESET ADDRESS, THE OPERATING PARAMETERS DOWNLOADED WILL INCLUDE DAY AND TIME-OF-DAY, THE DEFAULT WEEK PLAN FOR THE GROUP AND AN ALTERNATE WEEK PLAN FOR THE GROUP.

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3.3 ENCLOSURE

3.3.1 THE TIME SWITCH UNIT SHALL BE HOUSED IN AN ALUMINUM ENCLOSURE WITH A MEANS FOR MOUNTING TO A SUITABLE BACK PLANE. MOUNTING HOLES THAT PROVIDE A LOCAL PAGER SERVICE. IT SHALL BE COMPATIBLE WITH COMMERCIAL 900 MHz FREQUENCY CLEARANCE FOR AT LEAST A #10 SCREW ARE REQUIRED. THE MOUNTING HOLE PATTERN OF THE ENCLOSURE SHALL BE SUITABLE FOR THE PAGER PROGRAMMABLE TIME SWITCH.

3.3.2 THE TIME SWITCH SHALL NOT EXCEED 5.0"Wx8.0"Hx2.0"D. INTERFACE TO THE POWER LINE AND/OR TO THE FLASHER CABINET SHALL BE PROVIDED BY MEANS OF A TERMINAL BLOCK CAPABLE OF TERMINATING WIRE SIZES UP TO #14 AWG. THE AC POWER INPUTS, IF ANY, SHALL BE PROTECTED WITH A FUSE AND MOV, DC POWER WITH A FUSE ONLY. A SEPARATE TERMINAL POINT SHALL BE PROVIDED FOR EACH POLE OF THE RELAY, AC LINE, AC NEUTRAL GROUND, +12VDC AND _12V COMMON.

3.4 ELECTRICAL

3.4.1 THE TIME SWITCH SHALL BE CAPABLE OF OPERATING ON EITHER 12VDC +/-2VDC OR AN AC POWER SOURCE BETWEEN 95 AND 135VAC.

3.4.2 THE AC & DC POWER SUPPLY MUST BE AN INTEGRAL PART OF THE TIME SWITCH CIRCUIT BOARD DUE TO THE FACT THAT MANY FLASHER CABINETS DO NOT HAVE AC POWER OUTLETS.

3.4.3 A SEPARATE POWER SUPPLY MODULE, SIMILAR TO THOSE USED FOR CALCULATORS AND BATTERY CHARGERS, IS NOT ACCEPTABLE.

3.5 POWER BACK-UP SYSTEM

3.5.1 A MEANS SHALL BE PROVIDED TO MAINTAIN TIMEKEEPING AND ALL PROGRAMMING WHEN THE LINE POWER SOURCE (120VAC OR 12VDC) IS LOST. THIS BACK-UP SYSTEM SHALL MAINTAIN TIMEKEEPING AND ALL PROGRAMMING FOR NOT LESS THAN 60 DAYS AT 25C WHEN FULLY CHARGED AND SHALL GO ON LINE AUTOMATICALLY UPON FAILURE OF THE POWER SOURCE. UPON RESUMPTION OF POWER SOURCE, THE UNIT SHALL AUTOMATICALLY RESUME NORMAL OPERATION WITH THE RELAY OUTPUT EITHER ENERGIZED OR DE-ENERGIZED BASED ON THE LAST PROGRAM BEING RUN.

3.5.2 THE DEVICE USED FOR THE BACK-UP SYSTEM SHALL BE A RECHARGERABLE CAPACITOR OR NON-VOLITILE MEMORY.

3.5.3 WHEN THE TIME SWITCH IS OPERATING ON THE BACK-UP SYSTEM, THE INDICATORS AND RELAY OUTPUT SHALL BE OFF TO CONSERVE BACK-UP POWER.

3.6 MANUAL OVERRIDE

3.6.1 THE TIME SWITCH SHALL BE EQUIPPED WITH A PUSH BUTTON SWITCH THAT WILL ALLOW A TECHNICIAN TO MANUALLY ACTIVATE AND/OR DEACTIVATE THE RELAY OUTPUT. THE RELAY SHALL REMAIN IN THE MANUAL CONDITION UNTIL THE NEXT PROGRAM STEP OF THE DEFAULT, WEEK PLAN OR OVERRIDE PLAN, WHICHEVER IS RUNNING.

3.7 INDICATORS

3.7.1 THE TIME SWITCH SHALL HAVE MINIMUM OF FOUR (4) LED INDICATORS TO DISPLAY THE FOLLOWING:

- 3.7.1a WHEN THE TIME SWITCH HAS POWER APPLIED AND IS OPERATING.
- 3.7.1b WHEN THE TIME SWITCH IS IN THE PROCESS OF RECEIVING A PAGE.
- 3.7.1c WHEN THE TIME SWITCH HAS FAILED TO RECEIVE A PAGE AFTER MIDNIGHT SATURDAY.
- 3.7.1d WHEN THE OUTPUT RELAY IS ENERGIZED OR DE-ENERGIZED.
- 3.7.1e WHEN A SWITCH SETTING ERROR HAS BEEN MADE USING SWITCH ADDRESSING.
- 3.7.1f THE GROUP AND LOCATION NUMBER WHEN USING DIP SWITCH OR ON-AIR ADDRESSING.
- 3.7.1g WHEN THE TIME SWITCH IS RUNNING A DEFAULT WEEK PLAN, ALTERNATE WEEK PLAN OR OVERRIDE PLAN.

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3.8 TIME SWITCH ADDRESSING

3.8.1 THE GROUP AND LOCATION ADDRESS IN EACH TIME SWITCH SHALL BE PROGRAMMABLE BY USE OF DIP SWITCHES OR ON-AIR OVER THE PAGING NETWORK.

3.8.2 IT SHALL BE POSSIBLE TO PROGRAM A UNIQUE ADDRESS ON EACH TIME SWITCH BOARD BY SETTING TWO DIP SWITCHES. ONE GROUP OF DIP SWITCHES SHALL BE USED TO SET THE GROUP ADDRESS (1-99) AND ANOTHER OF DIP SWITCHES SHALL BE USED TO SET THE LOCATION ADDRESS (1-99). THIS UNIQUE ADDRESS WILL ALLOW THE OPERATOR AT THE COMPUTER TO PROGRAM ANY TIME SWITCH INDIVIDUALLY OR AS PART OF A COMPLETE GROUP. AN LED INDICATOR SHALL CONTINUOUSLY DISPLAY THE GROUP AND LOCATION NUMBER ONCE THE DIP ADDRESS HAS BEEN SET.

3.8.3 IT SHALL BE POSSIBLE TO SET AND RESET THE GROUP (1-99) AND LOCATION (1-99) ADDRESS ON-AIR VIA THE PAGING NETWORK. AN LED INDICATOR SHALL CONTINUOUSLY DISPLAY THE GROUP AND LOCATION NUMBER ONCE THE ON-AIR ADDRESS HAS BEEN SET.

3.8.4 THE OPERATOR SHALL HAVE THE ABILITY TO CONVERT FROM USING SWITCH ADDRESSING TO ON-AIR ADDRESSING AND BACK AT ANY TIME. WHEN CONVERTING FROM ON-AIR TO SWITCH ADDRESSING, THE TIME SWITCH WILL RETAIN THE ON-AIR ADDRESS NUMBER.

3.8.5 GROUP AND/OR INDIVIDUAL ADDRESSING PROGRAMMED IN THE PAGER MODULE IS NOT ACCEPTABLE.

3.9 PROGRAM SEARCH BACK

3.9.1 WHEN THE TIME SWITCH IS A NEW DEFAULT WEEK PLAN, ALTERNATE WEEK PLAN, DAY-OF-WEEK AND TIME-OF-DAY, OR OVERRIDE PLAN, IT SHALL INITIATE A SEARCH BACK ROUTINE TO DETERMINE IF THE RELAY OUTPUT SHOULD BE ON OR OFF AT THE TIME THE DOWNLOAD IS COMPLETE.

3.10 OUTPUT RELAY

3.10.1 THE TIME SWITCH SHALL HAVE A SINGLE POLE DOUBLE THROW RELAY OUTPUT RATED AT 15 AMPS RESISTIVE AT 120VAC.

3.11 ANTENNA

3.11.1 EACH TIME SWITCH SHALL BE SUPPLIED WITH AN EXTERNAL ANTENNA SHALL HAVE A MINIMUM GAIN OF 3db AND SHALL BE HOUSED IN PVC PIPE WITH A MEYERS HUB FOR MOUNTING. THE ANTENNA SHALL HAVE A MINIMUM OF FIFTEEN FEET COAX CABLE TO ACCOMMODATE MOUNTING THE ANTENNA AT THE TOP OF THE POLE ASSEMBLY. A BNC (OR EQUAL) CONNECTOR SHALL BE INSTALLED ON THE COAX CABLE FOR CONNECTION TO THE TIME SWITCH.

3.12 CONNECTOR

3.11.1 EACH TIME SWITCH SHALL BE EQUIPPED WITH A CIRCULAR CPC TYPE CONNECTOR. THE CPC CONNECTOR SHALL HAVE A PIGTAIL ASSEMBLY WIRED TO A MULTI-POSITION LABELED TERMINAL STRIP. THE WIRE LENGTH FROM THE CPC PIGTAIL TO THE MULTI-POSITION TERMINAL STRIP SHALL HAVE A LENGTH OF SIX INCHES.

3.13 CONNECTOR

3.13.1 THE TIME SWITCH SHALL BE WARRANTED TO BE FREE FROM DEFECTS IN MATERIAL WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF INSTALLATION. ANY WARRANTY SERVICE REQUIRED SHALL BE PROMPTLY PERFORMED AT THE MANUFACTURER'S FACILITY OR THE MANUFACTURER'S AUTHORIZED SERVICE AGENCY. THE PURCHASER WILL PAY TRANSPORTATION COSTS TO SUCH SERVICE POINT AND THE MANUFACTURER WILL PAY THOSE TO RETURN THE UNIT BY NORMAL SURFACE TRANSPORTATION MEANS. IF THE TIME SWITCH CANNOT BE REPAIRED WITHIN 60 DAYS, A NEW REPLACEMENT WILL BE FURNISHED.

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3.13.2 SERVICE INFORMATION SHALL BE AVAILABLE TO THE PURCHASER CONSISTING OF AT LEAST; SCHEMATICS, PARTS LOCATORS AND PARTS LISTS.

3.14 TEST AND ACCEPTANCE

3.14.1 THE APPARENT LOW BIDDER SHALL BE REQUIRED TO SUPPLY A COMPLETE WORKING SYSTEM TO THE AGENCY FOR TESTING AND EVALUATION. THIS WORKING SYSTEM SHALL INCLUDE A COMPUTER PRELOADED WITH THE SOFTWARE, A VERIFICATION TIME SWITCH UNIT, SIX-FIELD TIME SWITCH UNITS AND ANY OTHER EQUIPMENT OR SUPPLIES NECESSARY FOR THE AGENCY TO ADEQUATELY TEST AND EVALUATE THE SYSTEM.

3.14.2 THE BIDDER SHALL SETUP THE COMPUTER, THE VERIFICATION TIME SWITCH UNIT AND THE SIX-FIELD TIME SWITCH UNITS AT A LOCATION IDENTIFIED BY THE AGENCY. THE BIDDER WILL TRAIN AGENCY PERSONNEL ON HOW TO PROGRAM AND OPERATE THE PAGER PROGRAMMABLE TIME SWITCH SYSTEM. THE AGENCY WILL SUPPLY A PHONE LINE FOR THE TEST. THE BIDDER WILL MAKE ALL NECESSARY ARRANGEMENTS WITH A LOCAL PAGER CARRIER AND BE RESPONSIBLE FOR THE COST OF THE PAGER CARRIER SERVICE FOR THE DURATION OF THE TEST AND EVALUATION. THE TEST AND EVALUATION WILL TAKE UP TO 60 DAYS AT WHICH TIME THE EQUIPMENT MAY BE PICKED UP BY THE BIDDER OR SHIPPED TO THE BIDDER FREIGHT COLLECT.

3.14.3 UPON TELEPHONE OR WRITTEN NOTIFICATION, THE BIDDER MUST DELIVER THIS EQUIPMENT TO THE AGENCY WITHIN 14 CALENDER DAYS. FAILURE TO COMPLY WITH THE ABOVE REQUIREMENT WILL RENDER THE BID NON-RESPONSIVE.

4.0 SOLAR POWERED FLASHER CABINET ASSEMBLY

4.1 THE INTENT OF THIS SPECIFICATION IS TO OUTLINE THE MINIMUM ACCEPTABLE DESIGN REQUIREMENTS FOR A FLASHER CABINET ASSEMBLY WIRED FOR A COMPACT TIME SWITCH AND A TWO (2) CIRCUIT 12 VDC FLASHER. EACH FLASHER ASSEMBLY WILL BE USED TO OPERATE A WARNING DEVICE. POWER FOR THE FLASHER CABINET ASSEMBLY SHALL BE SUPPLIED BY BY A 12 VOLT BATTERY THAT IS CHARGED FROM THE SUN'S ENERGY.

4.2 FLASHER:

4.2.1 THE FLASHER CABINET SHALL INCLUDE A PLUG-IN TWO (2) CIRCUIT 12 VDC FLASHER AND BASE. THE FLASHER SHALL BE OF ALL SOLID STATE CONSTRUCTION AND SHALL BE RATED AT A MINIMUM OF 10.0 AMPS PER CIRCUIT. THE FLASHER SHALL UTILIZE ZERO-VOLTAGE TURN-ON AND TURN-OFF OF CURRENT, THUS ELIMINATING ELECTROMAGNET INTERFERENCE.

4.3 VOLTAGE AND CURRENT METERS

4.3.1 THE FLASHER CABINET SHALL INCLUDE A METER TO INDICATE THE VOLTAGE LEVEL OF THE BATTERY AND A METER TO INDICATE THE TOTAL CURRENT DRAW OF THE FLASHER ASSEMBLY AND A METER TO INDICATE THE OUTPUT OF THE SOLAR PANEL.

4.3.2 THE FLASHER CABINET SHALL INCLUDE A 10 AMP FUSE TO PROTECT THE LOAD, AND A 10 AMP FUSE TO PROTECT THE SOLAR CHARGING SYSTEM.

4.4 AUTOMATIC SEQUENCY CHARGER (ASC)

4.4.1 THE FLASHER CABINET SHALL INCLUDE AN AUTOMATIC SEQUENCING CHARGER (ASC). THE ASC SHALL BE 100% SOLID STATE AND BE DESIGNED FOR USE AS A BATTERY CHARGE REGULATOR IN PHOTO VOLTAIC (SOLAR) ENERGY SYSTEMS.

4.4.2 THE ASC SHALL BE NEGATIVE GROUND SWITCHING SHUNT REGULATOR AND SHALL BE HOUSED IN AN ANODIZED ALUMINUM CHASSIS AND ENCAPSULATED IN A HARD EPOXY RESIN.

4.4.3 THE ASC WILL ALLOW MAXIMUM SOLAR PANEL CURRENT TO FLOW INTO THE BATTERY UNTIL THE BATTERY VOLTAGE REACHES THE CHARGE TERMINATION SET POINT. WHEN THE THE BATTERY VOLTAGE DROPS TO THE CHARGE RESUMPTION SET POINT, THE ASC WILL ALLOW CHARGING TO RESUME.

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4.4.4 THE ASC SHALL HAVE TERMINALS TO ACCEPT UP TO 12 AWG WIRE.

4.5 FIELD TERMINAL BLOCK

4.5.1 A BARRIER TYPE TERMINAL BLOCK SHALL BE USED TO TERMINATE ALL WIRES. THE TERMINAL BLOCK SHALL HAVE AT LEAST EIGHT (8) POSITIONS TO TERMINATE THE FOLLOWING FUNCTIONS:

1. SOLAR PANEL +
2. SOLAR PANEL -
3. (NOT USED)
4. BATTERY +
5. BATTERY -
6. LOAD-1 FROM THE FLASHER
7. LOAD-2 FROM THE FLASHER
8. DC COMMON FROM FLASHER

4.6 CABINET

4.6.1 THE FLASHER ASSEMBLY SHALL BE HOUSED IN A CABINET WITH THE BATTERY AND FABRICATED OF .125 INCH SHEET ALUMINUM. THE CABINET SHALL BE WEATHERPROOF USING A NEOPRENE GASKET AND SHALL BE SUPPLIED WITH A STANDARD #2 LOCK AND KEY. THE OUTSIDE DIMENSIONS OF THE CABINET SHALL BE A MINIMUM OF 26"Hx16"Wx9"D. THE OUTSIDE OF THE CABINET SHALL BE THE NATURAL ALUMINUM FINISH. ONE EACH 1/4" WEEP HOLE SHALL BE DRILLED/INSTALLED IN EACH BOTTOM CORNER OF THE CABINET, WITH FOUR LOUVERED VENTS (TWO ON EACH SIDE) WITH SCREENS.

4.6.2 FIELD WIRING SHALL BE ACCOMMODATED BY A COPPER CONNECTOR CAPABLE OF TERMINATING WIRE SIZES RANGING FROM #6 TO #14 AWG. THE WIRE CONNECTORS SHALL BE ILSKO MODEL XT-6 OR APPROVED EQUAL.

4.6.3 THE FLASHER CABINET SHALL BE SUPPLIED WITH APPROPRIATE HARDWARE FOR MOUNTING TO A 4 INCH OD PEDESTAL POLE USING STAINLESS STEEL BANDING U-BOLTS.

4.7 WARRANTY

4.7.1 EACH FLASHER CABINET ASSEMBLY SHALL BE WARRANTED TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM INSTALLATION.

4.7.2 ANY WARRANTY SERVICE REQUIRED SHALL BE PROMPTLY PERFORMED AT THE MANUFACTURER'S FACILITY OR THE MANUFACTURER'S AUTHORIZED SERVICE AGENCY.

5.0 SIGNAL ASSEMBLY

5.1 SIGNAL ASSEMBLY SHALL CONFORM TO THE REQUIREMENTS OF SECTION 650 OF THE DEPARTMENT OF TRANSPORTATION SUPPLEMENTAL SPECIFICATIONS. SIGNAL ASSEMBLY SHALL BE TWELVE INCH, ALUMINUM AND PAINTED BLACK. TWO EACH MOUNTING BRACKETS WILL BE SUPPLIED AND SHALL BE PELCO #SE-S053 OR EQUAL. THE ASSEMBLY SHALL INCLUDE A TWELVE INCH, 12 VDC YELLOW LED SIGNAL MODULE WHICH IS APPROVED FOR USE BY THE FLORIDA DEPARTMENT OF TRANSPORTATION, WHICH SHALL FIT INTO THE 12" TRAFFIC SIGNAL HOUSING WITHOUT ANY MODIFICATION TO THE HOUSING.

6.0 ALUMINUM POLE

6.1 ALUMINUM POLE TO BE A MINIMUM 15 FEET LONG BY 4 INCH O.D.. BRUSHED ALUMINUM POLE TO HAVE PRE-DRILLED AND RUBBER GROMMETED HOLES AT THE FOLLOWING LOCATIONS:

1. 1 INCH HOLE INSTALLED 99 INCHES FROM POLE BASE
2. 1 INCH HOLE INSTALLED 115 INCHES FROM POLE BASE
3. 1 INCH HOLE INSTALLED 180 INCHES FROM POLE BASE
4. 1 INCH HOLE INSTALLED 234 INCHES FROM POLE BASE
5. 1 INCH HOLE INSTALLED 234 INCHES FROM POLE BASE

POLE WILL BE FURNISHED WITH TOP CAP TO PROVIDE WATER SEAL.

NOTE: ITEMS 1, 2 AND 4 WILL BE DRILLED IN THE SAME VERTICAL LINE. ITEM 3 AND 5 WILL BE DRILLED 180 DEGREES OPPOSITE ITEMS 1, 2 AND 4.

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7.0 BATTERY

7.1 BATTERY TO BE 12 VOLT D.C.-GEL FILLED, POWER SONIC #PS121000NB WITH A MINIMUM OF 120 MINUTES RESERVE POWER. BATTERY SIZE SHALL FIT INTO THE PROVIDED BATTERY CABINET.

8.0 BREAKAWAY BASE

8.1 BREAKAWAY BASE SHALL BE PELCO TYPE, WITH COLLAR OR EQUIVALENT.

9.0 DOCUMENTATION

9.1 DOCUMENTATION, INCLUDING PARTS MANUALS, OPERATIONS MANUALS AND INSTALLATION INSTRUCTION MANUALS, SHALL BE SUPPLIED TO THE COUNTY WITH EACH DELIVERY. PROPRIETARY COMPONENTS ARE TO BE IDENTIFIED ON THE PARTS LIST ALONG WITH THE SOURCE OF THE PROPRIETARY PARTS.

- 1 - 53 WATT SOLAR PANEL ARRAY
- 1 - TIME SWITCH, PAGER PROGRAMMABLE ASSEMBLY
- 1 - FLASHER CABINET ASSEMBLY
- 1 - BATTERY CABINET
- 1 - 12" ALUMINUM SIGNAL ASSEMBLY
- 1 - YELLOW LED SIGNAL MODULE
- 1 - 4"x15" ALUMINUM POLE/MIN.
- 1 - 12 VDC GEL FILLED BATTERY
- 1 - BREAKAWAY BASE/PELCO TYPE OR EQUIVALENT
- 1 - ALL BRACKETS AND HARDWARE NEEDED TO ASSEMBLE ALL COMPONENTS

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IN GENERAL, ALL TRAFFIC SIGNS FACING THE SAME DIRECTION OF TRAVEL ALONG A GIVEN SECTION OF ROADWAY SHOULD HAVE A MINIMUM SPACING OF 100 FEET BETWEEN SIGNS SO AS TO INCREASE DRIVER AWARENESS AND RECOGNITION.

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TRAFFIC SIGN FACES

1. ALL STOP, YIELD AND SCHOOL SERIES SIGNS SHALL BE MANUFACTURED USING 3M DIAMOND GRADE REFLECTIVE SHEETING OR APPROVED EQUAL.
2. THE FOLLOWING TRAFFIC SIGNS MAY BE MANUFACTURED USING 3M ENGINEER GRADE REFLECTIVE SHEETING OR APPROVED EQUAL, UNLESS OTHERWISE SPECIFIED:
 - A. ALL ONE WAY SIGNS
 - B. ALL PARKING SERIES SIGNS
 - C. PUSHBUTTON AND WALK GUIDANCE
 - D. STOP HERE ON RED SIGN
 - E. OM REFLECTOR SERIES USING THE 9 DOT RAISED REFLECTORS
 - F. ALL WARNING SIGNS EXCEPT THE FOLLOWING:
 1. LARGE ARROW SIGN (48 INCHES BY 24 INCHES)
 2. STOP AHEAD SIGN
 3. ADVISORY SPEED PLATE AND SUPPLEMENTAL LEGEND
3. ALL OTHER TRAFFIC SIGNS SHALL BE MANUFACTURED USING 3M HI-INTENSITY REFLECTIVE SHEETING OR APPROVED EQUAL, UNLESS OTHERWISE SPECIFIED.

MANATEE COUNTY TRANSPORTATION DEPARTMENT			TRAFFIC SIGNING AND MARKING HARDWARE/MATERIAL SPECIFICATIONS	552.0
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STREET NAME SIGN BLANKS

1. BLANKS SHALL BE DOMESTIC ALUMINUM ALLOY, TYPE 6061-T6, WITH A THICKNESS OF .080 AND BE TREATED BY ALODINE 1200E PROCESS.
2. BLANKS SHALL BE 9 INCHES IN HEIGHT BY THE APPROPRIATE LENGTH FROM 30 INCHES TO 48 INCHES IN 6 INCH INCREMENTS.

STREET NAME SIGN FACES

1. THE BACKGROUND SHALL BE 9 INCHES IN HEIGHT BY THE APPROPRIATE LENGTH, MANUFACTURED WITH AT LEAST 3M HI-INTENSITY REFLECTIVE SHEETING OR APPROVED EQUAL, UNLESS HIGHER GRADES OF SHEETING ARE SPECIFIED.
2. THE FOREGROUND SHALL BE 8 INCHES IN HEIGHT BY THE APPROPRIATE LENGTH SO AS TO MAINTAIN A 1/2 INCH BORDER AROUND THE SIGN FACE.
3. LETTER HEIGHTS AND SERIES FOR STREET NAMES, PREFIXES (WHEN USED), SUFFIXES AND BLOCK NUMBERS (WHEN USED) SHALL BE AS FOLLOWS:
 - A. THE STREET NAME SHALL BE 7 INCH, B SERIES, UPPER/LOWER CASE (SUCH AS CHILDS ST. OR BENTLEY AVE.) STANDARD. A MINIMUM SIZE TO 5 INCH, B SERIES MAY BE USED TO ACCOMMODATE UNUSUALLY LONG OR CUMBERSOME NAMES.
 - B. PREFIXES AND SUFFIXES SHALL BE 7 INCH, B SERIES, UPPER/LOWER CASE, STANDARD. MINIMUM SIZES TO 2 INCH, SERIES B, UPPER CASE MAY BE ALLOWED AS NOTED ABOVE.
 - C. BLOCK NUMBERS SHALL BE 2 INCH, SERIES B, UNLESS OTHERWISE SPECIFIED.

STREET NAME SIGN MANUFACTURE (LAYOUT, ASSEMBLY, ETC.)

1. EACH STREET NAME SHALL BE MANUFACTURED USING TWO (2) ALUMINUM STREET NAME SIGN BLANKS (FIGURE 553-A PROVIDES AN EXAMPLE FOR THE 30 INCH AND THE 36 INCH BLANKS), MOUNTED BACK TO BACK ON A GALVANIZED STEEL TWIST BRACKET (FIGURE 553-B), USING POP RIVETS TO SECURE THE SIGN. THE CENTER HOLES SHOWN IN FIGURE 553-A SECURE THE STREET NAME SIGN BLANK BACK TO BACK PAIR TO THE BRACKET AND THE END HOLES SECURE THE BLANKS TO EACH OTHER FOR RIGIDITY.
2. IN CASES WHERE NUMBERS COMPRISE THE STREET NAME, SUCH AS 3 RD ST, THE STREET NAME SIGN SHALL BE MANUFACTURED SO THAT RD IS AS FOLLOWS: 3RD ST IN THIS (AND SIMILAR SITUATIONS), THE RD SHALL BE 2 INCH, SERIES B, UPPER CASE ONLY.
3. STREET NAME SIGN BLANK LENGTHS SHALL BE DETERMINED BY THE NUMBER OF LETTERS AND NUMBERS IN THE STREET AS FOLLOWS:
 - A. 1-6 LETTERS - 30 INCH
 - B. 7-8 LETTERS - 36 INCH
 - C. 9-10 LETTERS - 42 INCH
 - D. 11-12 LETTERS - 48 INCH
 - E. FOR 13 OR MORE LETTERS, LETTER SIZE AND SERIES AS NOTED ABOVE, MAY MAY BE ADJUSTED TO ALLOW THE NAME TO FIT ON THE 48 INCH BLANK.
4. IN ORDER TO PROVIDE CLARIFICATION AS TO WHICH ROADWAYS IN MANATEE COUNTY ARE PUBLICLY MAINTAINED (PUBLIC) AND PRIVATELY MAINTAINED (PRIVATE), PUBLIC ROADWAYS SHALL HAVE A GREEN BACKGROUND WITH WHITE LETTERS, NUMBERS AND BORDERS AND AND BORDERS AND PRIVATE ROADWAYS SHALL HAVE A YELLOW BACKGROUND WITH GREEN LETTERS AND NUMBERS.

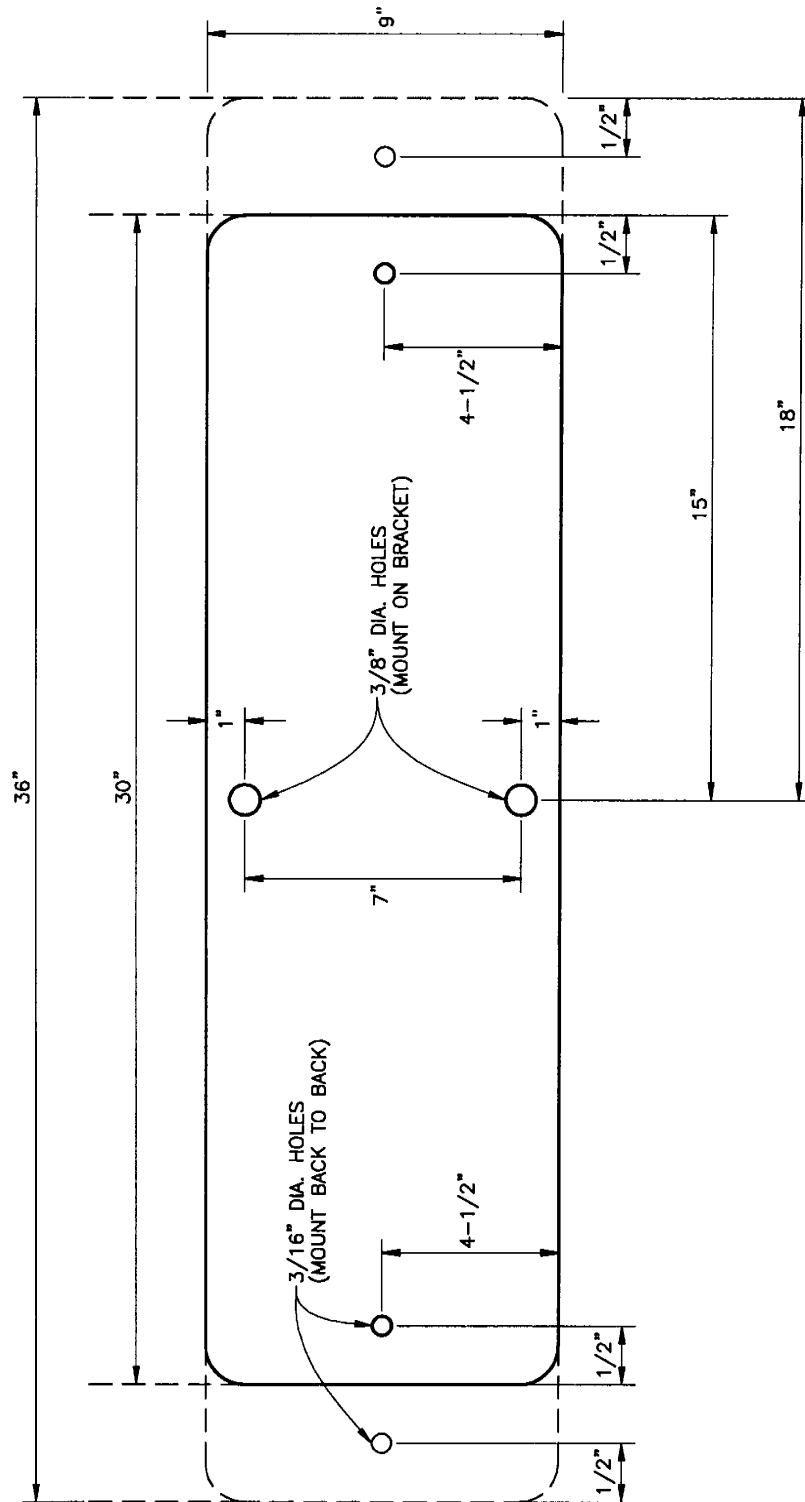
MANATEE COUNTY		STREET NAME SIGNS (GROUND MOUNTED) HARDWARE/MATERIAL SPECIFICATIONS	553.0
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STREET NAME SIGN INSTALLATION

1. IN GENERAL, ALL STREET NAME SIGN ASSEMBLIES ARE MOUNTED ON TOP OF A STANDARD GALVINIZED U-CHANNEL POST. IN MOST CASES, THE STREET NAME SIGN ASSEMBLY WILL BE MOUNTED IN COMBINATION WITH A STOP SIGN SO AS TO REDUCE THE NUMBER OF SIGN FIXTURES IN THE FIELD.

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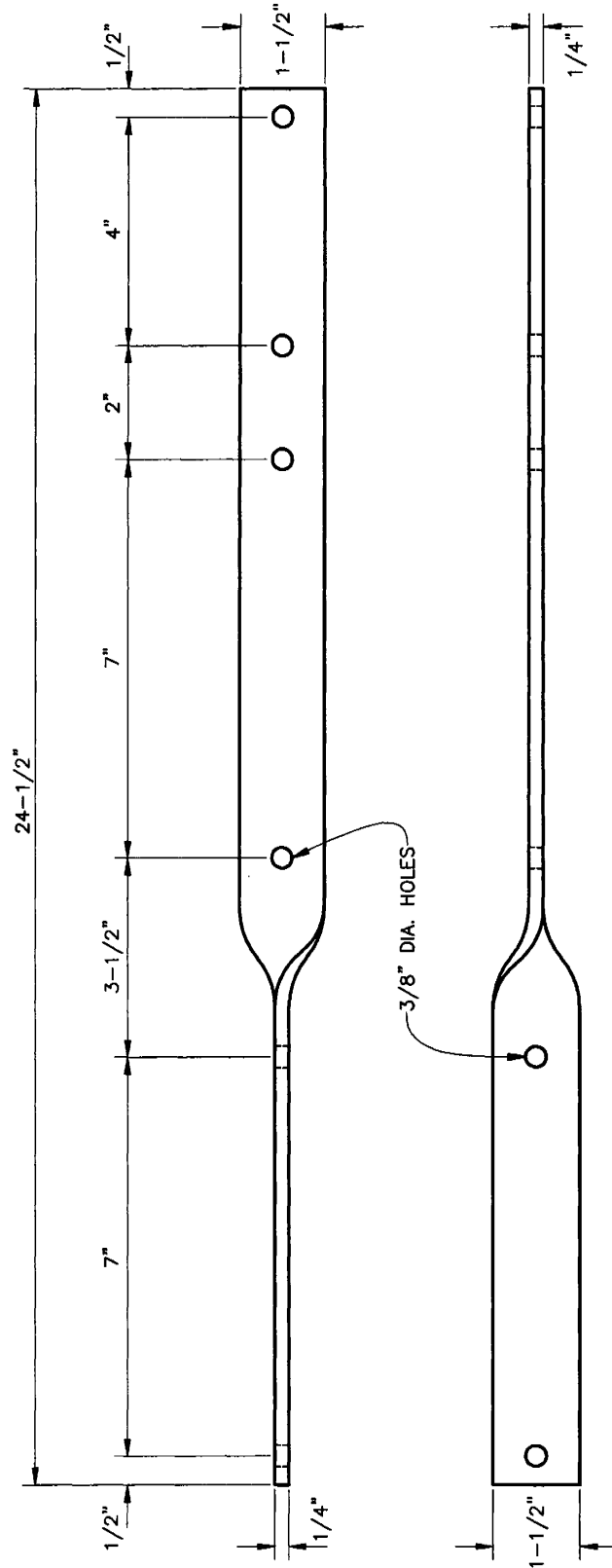
FIGURE 553-A



ALUMINUM STREET NAME SIGN BLANK

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FIGURE 553-B



GALVANIZED STEEL STREET NAME SIGN BRACKET

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PARKING SERIES SIGNS

A. RESIDENTIAL, COMMERCIAL, AND INDUSTRIAL AREAS

1. THE STANDARD SIZE FOR PARKING SERIES SIGNS (FOR EXAMPLE, "NO PARKING ANY TIME", "NO PARKING 7-8:30 AM, M-F", ETC.) IS 12 INCHES x 18 INCHES AND SHALL FEATURE ARROWS TO DEFINE THE EXTENT OF THE REGULATED ZONES. THE SIGNS SHALL BE ERECTED AT A 45 DEGREE ANGLE RELATIVE TO APPROACHING TRAFFIC.
2. SPACING BETWEEN SUCCESSIVE PARKING SERIES SIGNS SHOULD BE NOT LESS THAN 100 FEET OR MORE THAN 300 FEET TO ASSURE ADEQUATE NOTIFICATION TO THE MOTORIST OF THE REGULATED ZONE.
3. WHERE PRACTICABLE AND TO REDUCE THE AMOUNT OF MOUNTING FIXTURES, PARKING SERIES SIGNS MAY BE COMBINED WITH OTHER SIGNS SUCH AS SPEED LIMIT SIGNS, LANE CONTROL SIGNS (SUCH AS "RIGHT LANE MUST TURN RIGHT"), OR SCHOOL SERIES SIGNS. INASMUCH AS PARKING SERIES SIGNS ARE MOUNTED AT A 45 DEGREE ANGLE RELATIVE TO APPROACHING TRAFFIC, THE MOUNTING FIXTURE FOR THE COMBINED SIGNS SHALL BE A CIRCULAR PIPE-POST AS DEFINED IN THE FOOT STANDARD INDICES.

B. RURAL AREAS

1. THE STANDARD SIZE OF THE PARKING SERIES SIGNS IS 18 INCHES x 24 INCHES. THE SIGNS SHALL BE ERECTED PERPENDICULAR TO THE ROADWAY FACING THE DIRECTION OF TRAVEL.
2. SPACING IS SUBJECTIVE; SUCCESSIVE SIGNS NEED TO BE SPACED AS FAR APART AS PRACTICABLE TO MINIMIZE OVER SIGNING BUT CLOSE ENOUGH TO FACILITATE MOTORIST IDENTIFICATION OF THE REGULATED ZONE.

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SCHOOL ZONE SIGNING AND MARKING

1. WITHIN THE SAME SCHOOL ZONE WHERE MULTIPLE CROSSWALKS ARE INSTALLED ALONG THE SAME ROADWAY 400 FEET OR LESS APART, THE "SCHOOL" PAVEMENT LEGEND, THE SCHOOL AHEAD SIGN, AND (WHEN USED), THE STATIC SCHOOL SPEED LIMIT SIGN SHALL NOT BE INSTALLED BETWEEN THE CROSSWALKS.
2. WITHIN THE SAME SCHOOL ZONE WHERE MULTIPLE CROSSWALKS ARE INSTALLED ALONG THE SAME ROADWAY THAT ARE MORE THAN 400 FEET APART, THE "SCHOOL" PAVEMENT LEGEND, THE SCHOOL AHEAD SIGN AND (WHEN USED), THE STATIC SCHOOL SPEED LIMIT SIGN SHALL BE INSTALLED.
3. ALONG THE SAME ROADWAY, ONLY ONE SET OF SCHOOL SPEED LIMIT FLASHERS SHALL BE INSTALLED. ADDITIONAL STATIC SCHOOL SPEED LIMIT SIGNS MAY BE INSTALLED AS DEFINED ABOVE IN 1 & 2.
4. THE INSTALLATION OF REDUCED SPEEDS AT SIGNALIZED CROSSWALKS AND INTERSECTIONS IS NEITHER RECOMMENDED NOR ENCOURAGED. HOWEVER, IN ACCORDANCE WITH FDOT POLICY, TOPIC NUMBER 750-010-027-H "ESTABLISHING SCHOOL ZONES AND SCHOOL CROSSINGS", EFFECTIVE MAY 3, 2006, UPON A REQUEST FROM THE LOCAL GOVERNMENT, A REDUCED SPEED ZONE WILL BE USED AT SCHOOL CROSSINGS AT SIGNALIZED INTERSECTIONS AT LOCATIONS ADJACENT TO OR NEAR SCHOOL PROPERTY IF JUSTIFIED BY AN ENGINEERING STUDY.
5. THE SCHOOL AHEAD SIGN WITH THE "SCHOOL" PAVEMENT LEGEND SHALL BE INSTALLED A MINIMUM OF 300 FEET IN ADVANCE OF A SCHOOL CROSSWALK FOR SPEEDS UP TO 45 MPH. FDOT STANDARD INDEX 17344 APPLIES FOR SPEEDS GREATER THAN 45 MPH.

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SPEED LIMIT SIGNING

A. RESIDENTIAL, COMMERCIAL, AND INDUSTRIAL AREAS

1. THE SPEED LIMIT SIGN SHALL BE ERECTED ON THE FIRST PROPERTY LINE IF NOT LESS THAN 100 FEET FROM THE EXTENDED CURB LINE OR EDGE OF ROAD OF THE NEAREST INTERSECTING ROADWAY.
2. IF THE FIRST PROPERTY LINE IS LESS THAN 100 FEET, THE SPEED LIMIT SIGN SHALL BE ERECTED ON THE SECOND PROPERTY LINE, PROVIDED THAT THE SECOND PROPERTY LINE IS 300 FEET OR LESS FROM THE EXTENDED CURB LINE OR EDGE OF ROAD OF THE NEAREST INTERSECTING ROADWAY.
3. WHERE THE FIRST PROPERTY LINE EXCEEDS 300 FEET, THE SPEED LIMIT SIGN MAY BE ERECTED NOT LESS THAN 100 FEET OR MORE THAN 300 FEET FROM THE EXTENDED CURB LINE OR EDGE OF ROAD OF THE NEAREST INTERSECTING ROADWAY.
4. IF ADDITIONAL SPEED LIMIT SIGNS ARE NEEDED TO FURTHER REMIND MOTORISTS PERIODICALLY OF THE APPLICABLE SPEED LIMIT, SUCH SIGNS SHALL BE INSTALLED BEYOND INTERSECTIONS AS DEFINED ABOVE. SPACING BETWEEN SUCCESSIVE SPEED LIMIT SIGNS SHOULD NOT BE LESS THAN 1100 FEET OR MORE THAN 1500 FEET ALONG ROADS WITHIN RESIDENTIAL AREAS. IN GENERAL, FOR SPACING OF SUCCESSIVE SPEED LIMIT SIGNS IN COMMERCIAL AND INDUSTRIAL AREAS AND/OR ALONG MINOR ARTERIAL ROADS OR ABOVE, SPACING SHOULD BE AS DEFINED FOR SPEED LIMIT SIGNS ALONG ROADS IN RURAL AREAS.
5. THE SPEED LIMIT SIGN SHALL BE ERECTED AT LEAST 100 FEET FROM OTHER TRAFFIC SIGNS FACING THE SAME DIRECTION OF TRAVEL. EXAMPLES INCLUDE THE REGULATORY END SCHOOL ZONE SIGN FOLLOWED BY A SPEED LIMIT SIGN AT THE END OF A SCHOOL ZONE OR THE NO OUTLET WARNING SIGN PLACED AT AN INTERSECTION ENTERING A RESIDENTIAL AREA FOLLOWED BY A SPEED LIMIT SIGN.

B. BY RURAL AREAS

1. THE SPEED LIMIT SIGN SHALL BE ERECTED AS DEFINED IN A1 THROUGH A3 ABOVE.
2. ADDITIONAL SPEED LIMIT SIGNS INSTALLED ALONG ROADS SHOULD BE SPACED NOT LESS THAN 2400 FEET OR MORE THAN 2800 FEET BETWEEN SUCCESSIVE SIGNS.

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TRAFFIC SIGNAL AND STREET LIGHT INSPECTIONS

THE FOLLOWING GUIDELINES ARE FOR A COMPREHENSIVE AND COMPLETE INSPECTION OF ALL TRAFFIC CONTROL DEVICES AND THE TRANSFER OF THE MAINTENANCE RESPONSIBILITY FROM THE ENGINEER OF RECORD (E.O.R.) TO MANATEE COUNTY, AS FOLLOWS:

1. IN ACCORDANCE WITH NO. 11 OF THE MANATEE COUNTY TRAFFIC SUPPLEMENTAL SPECIFICATIONS, SECTION 500, GENERAL SIGNAL NOTES, SHEET NO. 502.1, THE E.O.R. SHALL PROVIDE MANATEE COUNTY WITH TWO COMPLETE SETS OF AS-BUILTS AND ONE COMPLETE SET OF IMSA INSPECTION FORMS. THESE ITEMS WILL BE REQUIRED BEFORE AN INSPECTION IS SCHEDULED.
2. THE E.O.R. SHALL REQUEST THE SCHEDULING OF INSPECTIONS BY MANATEE COUNTY PROJECT MANAGEMENT INSPECTIONS DIVISION, FIVE (5) WORKING DAYS PRIOR TO THE DESIRED INSPECTION DATE.
3. THE E.O.R. SHALL FOLLOW ALL GUIDELINES FOR ACCEPTANCE PROCEDURES AS OUTLINED IN SECTION 611 OF THE 2007 FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.
4. WHERE MANATEE COUNTY INSPECTION STANDARDS ARE MORE STRINGENT, MANATEE COUNTY STANDARDS SHALL BE FOLLOWED.
5. WITHIN 24 HOURS AFTER THE INITIAL INSPECTION, MANATEE COUNTY PROJECT MANAGEMENT INSPECTIONS DIVISION SHALL PROVIDE THE E.O.R. A COMPREHENSIVE PUNCH LIST TO INCLUDE ALL ITEMS THAT REQUIRE CORRECTION.
6. THE E.O.R. AND MANATEE COUNTY PROJECT MANAGEMENT INSPECTIONS DIVISION AFTER ALL PUNCH LIST ITEMS HAVE BEEN CORRECTED AND SCHEDULE A RE-INSPECTION.
7. UPON RE-INSPECTION, MANATEE COUNTY SHALL INSPECT ALL PUNCH LIST ITEMS FOR CORRECTNESS. IF ANY PUNCH LIST ITEMS ARE FOUND TO BE UNSATISFACTORY, THE E.O.R. WILL BE ALLOWED TO TAKE IMMEDIATE CORRECTIVE MEASURES (DURING THE INSPECTION). IF THE ITEM CANNOT BE CORRECTED IMMEDIATELY, THE INSPECTOR SHALL CEASE THE INSPECTION AND THE E.O.R. SHALL BE BILLED THE TOTAL COST FOR LABOR AND EQUIPMENT PROVIDED BY MANATEE COUNTY DURING THE INSPECTION AND FOR EACH INSPECTION THEREAFTER THAT PUNCH LIST ITEMS ARE FOUND TO BE UNSATISFACTORY.
8. UPON PASSING THE FINAL INSPECTION, THE E.O.R. SHALL SEND A WRITTEN REQUEST TO MANATEE COUNTY PROJECT MANAGEMENT INSPECTIONS DIVISION TO TRANSFER MAINTENANCE RESPONSIBILITY. MANATEE COUNTY PROJECT MANAGEMENT INSPECTIONS DIVISION SHALL RESPOND WITHIN FIVE (5) WORKING DAYS TO CONFIRM THE TRANSFER.
9. IF THE TRANSFER OF MAINTENANCE HAS OCCURRED WITHIN THE 90 DAY WARRANTY PERIOD, THE E.O.R. SHALL REMAIN RESPONSIBLE TO CORRECT ANY PROBLEM RESULTING FROM DEFECTIVE MATERIALS OR WORKMANSHIP, AS DESCRIBED IN SECTION 611 OF THE 2007 FDOT STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION.

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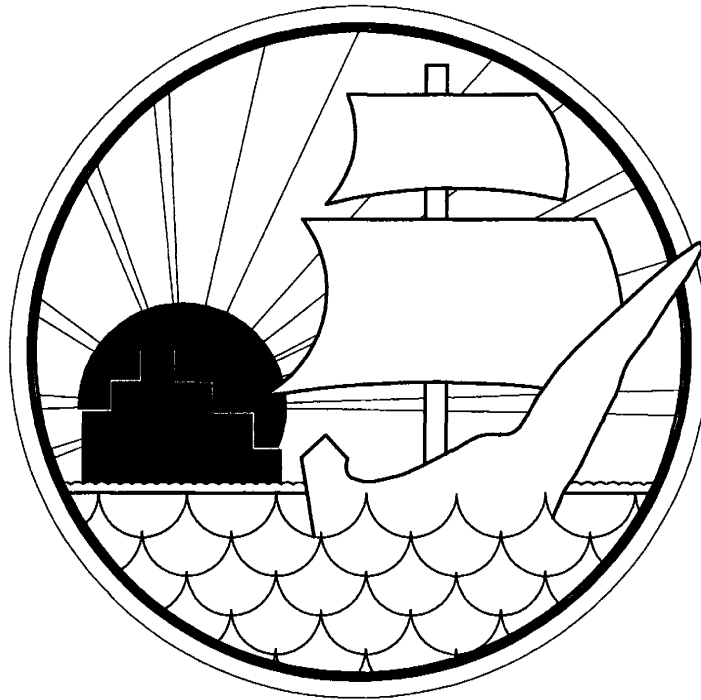
TRAFFIC SIGNS AND STREET MARKINGS INSPECTIONS

THE FOLLOWING GUIDE LINES ARE FOR A COMPREHENSIVE AND COMPLETE INSPECTION OF ALL TRAFFIC CONTROL DEVICES AND THE TRANSFER OF THE MAINTENANCE RESPONSIBILITY FROM THE ENGINEER OF RECORD (E.O.R.) TO MANATEE COUNTY, AS FOLLOWS:

1. THE E.O.R. SHALL REQUEST THE SCHEDULING OF INSPECTIONS BY MANATEE COUNTY PROJECT MANAGEMENT INSPECTIONS DIVISION, FIVE (5) WORKING DAYS PRIOR TO THE DESIRED INSPECTION DATE.
2. THE E.O.R. AND MANATEE COUNTY SHALL FOLLOW ALL GUIDELINES FOR ACCEPTANCE PROCEDURES AS OUTLINED IN MANATEE COUNTY GOVERNMENT SPECIFICATIONS.
3. WHERE MANATEE COUNTY INSPECTION STANDARDS ARE MORE STRINGENT, MANATEE COUNTY STANDARDS SHALL BE FOLLOWED.
4. WITHIN 24 HOURS AFTER THE INITIAL INSPECTION, MANATEE COUNTY PROJECT MANAGEMENT INSPECTIONS DIVISION SHALL PROVIDE THE E.O.R. A COMPREHENSIVE PUNCH LIST TO INCLUDE ALL ITEMS THAT REQUIRE CORRECTION.
5. THE E.O.R. SHALL NOTIFY MANATEE COUNTY PROJECT MANAGEMENT INSPECTIONS DIVISION AFTER ALL PUNCH LIST ITEMS HAVE BEEN CORRECTED AND SCHEDULE A RE-INSPECTION.
6. UPON RE-INSPECTION, MANATEE COUNTY SHALL INSPECT ALL PUNCH LIST ITEMS FOR CORRECTNESS. IF ANY PUNCH LIST ITEMS ARE FOUND TO BE UNSATISFACTORY, THE E.O.R. WILL BE ALLOWED TO TAKE IMMEDIATE CORRECTIVE MEASURES (DURING THE INSPECTION). IF THE ITEM CANNOT BE CORRECTED IMMEDIATELY, THE INSPECTOR SHALL CEASE THE INSPECTION AND THE E.O.R. SHALL BE BILLED THE TOTAL COST FOR LABOR AND EQUIPMENT PROVIDED BY MANATEE COUNTY DURING THE INSPECTION AND FOR EACH INSPECTION THEREAFTER WHERE PUNCH LIST ITEMS ARE FOUND TO BE UNSATISFACTORY.
7. UPON PASSING THE FINAL INSPECTION, THE MANATEE COUNTY PROJECT MANAGEMENT INSPECTIONS DIVISION SHALL SEND AN APPROVAL/ACCEPTANCE LETTER TO THE E.O.R.

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MANATEE COUNTY GOVERNMENT



LANDSCAPING SUPPLEMENTAL SPECIFICATIONS

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LANDSCAPING INDEX

	<u>SHEET NO.</u>
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A. INDEX SHEET	600.1
B. GENERAL NOTES	600.2
C. TREE PLANTING DETAIL	600.3
D. CABBAGE PALM PLANTING DETAIL	600.4
E. ROYAL/DATE PALM PLANTING DETAIL	600.5
F. SHRUB PLANTING DETAIL	600.6
G. SIGHT TRIANGLE PLAN VIEW	600.7
H. SIGHT WINDOW DETAIL	600.8
I. VERTICAL CLEARANCE DETAIL	600.9
J. UNDERGROUND IRRIGATION SYSTEMS SPECIFICATIONS	600.10–19

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SPECIFICATIONS FOR UNDERGROUND IRRIGATION SYSTEMS

UNDERGROUND IRRIGATION SYSTEMS

PART 1 – GENERAL

PARTIES

Owner	Manatee County Transportation Department
Owner's Representative	The individual County employee assigned to manage the design and construction of irrigation system
Landscape Architect	The representative of the contracted or subcontracted firm preparing the irrigation design, details, notes, quantities, and procedures
Contractor	The representative of the contracted or subcontracted firm that physically installs the irrigation system.

In instances where a Landscape Architectural firm is not retained, all references to Landscape Architect shall apply to the Owner's Representative.

RELATED DOCUMENTS

Drawings and general provisions of the Contract, including General and Supplementary Conditions and Specifications sections, apply to the work of this section.

CODES AND INSPECTIONS

The entire installation shall comply fully with all local and state laws and ordinances and with all established codes applicable thereto. The Contractor shall obtain all required permits, arrange for all necessary inspections and shall pay all fees and expenses in connection with same, as part of the work under this contract. Upon completion of the work, he or she shall furnish to the Owner, all inspection certificates customarily issued in connection with the class of work involved.

DESCRIPTION OF WORK

The extent of the underground irrigation is shown on the drawings.

Coordination: Coordinate and cooperate with other trades including but not limited to earthwork, landscape work, concrete work, masonry work, electrical and plumbing to enable the work to proceed as rapidly and efficiently as possible.

Guarantee: All work shall be guaranteed for one year from the date of final acceptance against all defects and malfunctions in material, equipment and workmanship.

1. The guarantee shall also cover repair of damage to any part of the premises resulting from leaks or other defects in material, equipment and workmanship. Repairs shall be done at no cost to the Owner. The Contractor shall not be responsible for work damage by others. The guarantee shall state the name of the Owner, provide full guarantee terms, effective and termination date, name and license number of contractor providing guarantee, address and telephone number. It shall be signed by the chief executive of the Contractor and notarized. Manufacturers' warranties shall not relieve the Contractor of his liability under the guarantee.
2. If, within ten (10) days after mailing of a written notice by the Owner to the Contractor requesting repairs

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SPECIFICATIONS FOR UNDERGROUND IRRIGATION SYSTEMS (cont.)

or replacement resulting from a breach of warranty, the Contractor shall neglect to make or undertake with due diligence to make the same, the Owner may make such repairs at the Contractor's expense. In the case of an emergency where, in the judgment of the Owner, delay would cause serious loss or damage, repairs or replacement may be made without notice being sent to the Contractor, and the Contractor shall pay the cost thereof.

On-site Observation: At any time during the installation of the irrigation system the Owner's Representative or Landscape Architect, may visit the site to observe work underway. Upon request, the Contractor shall uncover specified work as directed by the Owner's Representative or the Landscape Architect without additional compensation. Should the material, workmanship, or method of installation not meet the standards specified herein, the Contractor shall replace the work at his own expense.

Workmanship: All work done by the Contractor shall be installed by skilled personnel, proficient in the trades required, in a neat, orderly, and a responsible manner with recognized standards of workmanship. The Contractor shall have had considerable experience and demonstrated ability in the installation of sprinkler systems of this type. To demonstrate ability and experience necessary for this project, Contractor shall submit, to the Landscape Architect, the following:

1. List of three (3) projects completed in the last two (2) years of similar complexity to this project. Description of projects shall include:
 - a. Names of Project
 - b. Location
 - c. Owner's name, address, and business phone number
 - d. Scope of work and contract amount

SUBMITTALS

Product Data: Submit samples and manufacturer's technical data to the Landscape Architect including installation instructions for the underground irrigation system.

Shop Drawings: If required, submit shop drawings to the Landscape Architect for the landscape irrigation system including plan layout details illustrating location and type of heads, valves, piping circuits, controls and accessories.

Operations and Maintenance Manuals: The Contractor shall prepare and deliver to the Landscape Architect at substantial completion a minimum of three (3) hard cover binders with three rings containing the following information:

1. Index sheets stating the Contractor's address, and business telephone number, list of equipment with names(s) and address(es) of local manufacturers' representative(s).
2. Catalog and parts sheet on every material and equipment installed under this contract.
3. Complete operating and maintenance instruction on all major equipment.
4. Provide Owner's maintenance personnel with instructions for major equipment and show evidence in writing to the Landscape Architect at the conclusion of the project that this service has been rendered.

Equipment: The Contractor shall supply the Owner as part of this contract the following tools:

1. Two (2) sets of special tools required for removing, disassembling and adjusting each type of sprinkler and valve supplied on this project.
2. Two (2) keys for each automatic controller.
3. Two (2) quick coupler keys and two (2) matching hose swivels for each type of quick coupling valve installed, if required.

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SPECIFICATIONS FOR UNDERGROUND IRRIGATION SYSTEMS (cont.)

The above-mentioned equipment shall be turned over to the Owner by the contractor at the conclusion of the project before final inspection can occur, evidence that the owner has received material must be shown by the Contractor to the Landscape Architect.

RECORDS PLANS AND RECORD DRAWINGS

The Contractor shall maintain at all times an up-to-date record plan of the irrigation system as-built. The plan shall indicate the location and measurements, to the nearest foot, of all mainline pipes installed, including all automatic and gate valves, splice boxes, main line tees, elbows and fittings, equipment locations; sleeve locations; and the Contractor shall make such modifications to any notes and or details as appropriate to show the final installed condition of the overall system. The record plan shall be an original plan, drawn in ink on a good grade of tracing paper at the scale of the original plan as bid. Any sepia shall be used only for record plan drawings and shall be submitted to the County's Representative and Landscape Architect with the final pay request. It shall be kept up-to-date during the installation of the system and shall accurately indicate the location of all equipment installed at that time. A copy shall be available on the site for inspection at all times.

ON-SITE CONDITIONS

Inspection of the Site: The Contractor shall acquaint himself with all on-site conditions. Should utilities not shown on the drawings be found during excavations, the Contractor shall promptly notify the Landscape Architect for instructions as to further action. Failure to do so will make the Contractor liable for any and all damage thereto arising from his operations subsequent to discovery of such utilities not shown on the drawings.

Protection of Property: The Contractor shall be responsible for the preservation and protection of all site conditions to remain. In the event damage does occur, all damage shall be completely repaired by the Contractor to its original condition. All costs of such work shall be charged to and paid by the Contractor.

1. **Trenching:** All trenching or other work under the limb spread of any and all plant materials to remain shall be done by hand by the Contractor or by other methods so that no limbs, branches or major roots are damaged in any way.
2. **Buildings, Walks, Walls, and Other Property:** Shall be protected by the Contractor from damage. Open ditches left exposed shall be flagged and barricaded by the Contractor. The Contractor shall restore disturbed areas to their original condition as soon as practical.

Private Utilities: The Contractor shall request the Owner, in writing, to locate any private utilities (i.e. electrical service to outside lighting) before proceeding with any excavation. If, after such requests and necessary staking, private utilities which are not staked are encountered and damaged by the Contractor, they shall be repaired by the Owner at no cost to the Contractor. If the Contractor damages staked or located utilities, they shall be repaired at the Contractor's expense.

The Contractor shall take whatever precautions are necessary to protect these underground lines from damage, and, in the event damage does occur, all damage shall be repaired by the Contractor. All costs of such work shall be paid by the Contractor unless other arrangements have been made.

PART 2. – MATERIALS

GENERAL

All materials and equipment shall be supplied by the Contractor and no substitutions shall be allowed without the prior written approval of the Owners Representative or the Landscape Architect. The Contractor shall inspect all materials and equipment prior to installation and any defective materials or equipment shall be replaced with the

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SPECIFICATIONS FOR UNDERGROUND IRRIGATION SYSTEMS (cont.)

proper materials or equipment. Those items used in the installation that are found to be defective or improperly installed shall be removed and the proper materials and equipment installed in the proper manner.

PIPING AND FITTINGS

General Provisions: All materials throughout the system shall be new and in perfect condition.

Polyvinyl Chloride Pipe (PVC)

1. Laterals: Polyvinyl Chloride (PVC) pipe shall conform to the requirements of ASTM Designation D 2241, Class 1120 or 1220. All lateral piping shall be Schedule 40.
2. Main Line Under Pressure: Polyvinyl chloride (PVC) pipe shall conform to the requirements of ASTM Designation D 2241, Class 1120 or 1220, and Schedule 40 unless otherwise noted on the plans.
3. Pipe Markings: All PVC pipe shall bear the following markings:
 - a. Manufacturer's name
 - b. Nominal pipe size
 - c. Schedule or class
 - d. Pressure rating of P.S.I.
 - e. NSF (National Sanitation Foundation) approval
 - f. Date of extrusion

Copper Pipe: Copper pipe shall be seamless, type "K", drawn temper, ASTM B88.

PVC Fittings:

1. All PVC Pipe and Fittings shall be Schedule 40 PVC with solvent weld joints and conform to the requirements of ASTM Designation D 2466 as furnished by manufacturer of pipe.
2. Fittings for Gasketed Pipe: For gasket pipe up to 8" and couplings up to 12", fittings shall be Schedule 40 rubber ring fittings with sealed bell spigot, o-ring, ring-tite mechanical joint, flanged or IPS threaded. All fittings for gasketed pipe shall be thrust blocked as per detail and of the size recommended by manufacturer of fittings.
3. All Fittings: Shall bear the manufacturer's name or trademark, material designation, size, applicable IPS. Schedule and NSF seal of approval.

PVC Joints:

1. PVC pipe 3 inches and larger shall have provisions for expansions and contraction provided in the joints. All joints, except solvent weld and threaded joints shall be designated for push-on, make-up connection.
2. A push-on joint may be a coupling manufactured as an integral part of the pipe barrel consisting of a thickened section with an expanded bell with a groove to retain a rubber sealing ring of uniform cross section similar and equal to Johns-Manville Rint-Tite and David Meter Dav-Tite, or may be made with a separate twin gasketed coupling similar and equal to CertainTeed Fluid-Tite.
3. Joints in PVC pipe smaller than 3 inches shall be solvent welded in accordance with the recommendations of the pipe manufacturer using the solvent cleaner and welding compound furnished with the pipe.

Copper Fittings:

For Copper Tubing: Type K copper, ASTM B88 ANSI B 16.22 wrought copper or cast brass, 150 psi. recessed solder joint type fittings.

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SPECIFICATIONS FOR UNDERGROUND IRRIGATION SYSTEMS (cont.)

Dielectric Protection: Use dielectric fittings at connection where pipes of dissimilar metal are joined.

Pressure Pipe and Main Line Conduit through Buildings: Both shall be PVC Schedule 40 with Underwriters' Laboratories label. Conduit shall be twice the diameter of the enclosed pipe.

Sleeves:

1. General: The location of sleeves shown on the drawings is schematic. The Contractor shall make any adjustments necessary to accommodate existing vegetation, utilities, or other conditions. Sleeving shall be a minimum of 18" below finish grade.
2. Sleeve Material: Sleeves shall be Schedule 40 PVC, conforming to the requirements of ASTM 1785. See irrigation plan for the size and location. If size is not shown, sleeves shall be installed to carry required piping and control wiring and shall be a minimum of 2 sizes larger than pipe carried by sleeve.

Solvent Cement:

1. General: The Contractor shall provide solvent cement and purple primer for PVC solvent cement weld pipe and fittings recommended by the manufacturer. Pipe joints for weld solvent weld pipe shall be belled end. Pipe joints for gasketed pipe shall be integral ring type. Insert gaskets will not be accepted.

Valves:

1. Gate Valves:
 - a. Gate valves for 3/4" through 2-1/2" shall be brass or bronze construction, solid wedge, I.P.S. threads, non-rising stem with wheel operating handle, for a continuous working pressure of 150 psi.
 - b. Gate valves for 3" and larger: Iron body, brass or bronze mounted AWWA gate valves, with a clear waterway equal to the full nominal diameter of the valve, rubber gasket for a continuous working pressure of 150 psi. Valve shall be equipped with a square operating nut.
2. Quick Coupling Valves: Brass two-piece body designed for working pressure of 125 psi operable with quick coupler. The cover shall be a spring loaded self closing type of cadmium plated cast iron, with a yellow thermoplastic rubber cover. The valve shall be opened and closed by a brass key of the same manufacturer having 3/4" outlet able to accommodate a 3/4" swivel hose ell. Key size and type as shown on plans.
3. Drip Valve Assembly: Type and size shown on drawings.
 - a. Wye strainer shall be of plastic construction, with 120 mesh nylon screen and 1/2" blow-out assembly.
 - b. Control valve shall be two way, solenoid pilot operated, shall be made of synthetic, non-corrosive material shall be diaphragm activated and slow closing. The valve shall have a freely pivoted seat and seal retainer mounted without attachment to the diaphragm.
 - c. After Control Valves have been installed, removable filters shall be installed in the box.
4. Pressure Reducing Valve: The valve shall be of plastic or brass construction with manual adjusting nut. It shall have a pressure regulating module capable of regulating outlet pressure between 15 and 100 psi (± 5 psi). Module shall have an adjusting screw for setting pressure and a valve connection for monitoring pressure.

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SPECIFICATIONS FOR UNDERGROUND IRRIGATION SYSTEMS (cont.)

5. Electric Control Valves:

- a. Size and type shown on the drawings. Provide units with manual flow adjustment and manual bleed nut.
- b. The electric control valve shall be normally closed 24 volt A.C., 60 cycle solenoid actuated globe pattern. Valve pressure rating shall not be less than 200 psi.
- c. The valve body and bonnet shall be constructed of heavy cast brass, plastic or nylon, diaphragm shall be of nylon reinforced nitrile rubber. Solenoid coil shall be encapsulated in molded epoxy.
- d. The valve shall be actuated by a lower power, solenoid actuator.
- e. The valve shall have a flow control stem and cross handled for regulating or shutting off the flow of water and a bleed screw for manual operation without electrically energizing the solenoid coil.
- f. The valve construction shall be such as to provide for all internal parts to be removable from the top of the valve without disturbing the valve installation.

6. Valve Boxes: Valve boxes shall be as specified on drawings.

Irrigation Wiring:

Wiring for connecting the electric control valves to the controllers shall be type UF, 600 volt, single strand, solid copper with PVC insulation 4/64 inch thick. Use red for "hot" or lead wires, and white for the common wire. Size control wires to carry the required current as per manufacturer's guidelines.

Automatic Controllers:

1. General Provisions: Furnish a low voltage system manufactured expressly for control of automatic electric control valves of underground sprinkler systems. See the irrigation plan for controller specification.
2. Exterior Control Enclosure: Manufacturer's standard weatherproof enclosure with locking cover, complying with NFPA 70 (National Electric Code).
3. Interior Control Enclosure: Manufacturer's standard with locking cover, complying with NFPS 70.
4. Circuit Lighting Protection: The control station shall be protected with a lighting arrestor installed in the cabinet. A Rainbird LPP-K primary surge protector shall be installed by the Contractor on both legs of the 110 Volt power lines and a Rainbird LPV-K valve output surge protector shall be installed by the Contractor to protect the valve circuitry.
5. Electro-Mechanical and Computer Controllers: Controllers shall be of manufacturer's size and type shown on the drawings.
6. Master controller shall be as indicated on the drawings and installed as per manufacturers recommendations.

Sprinkler Heads:

1. Provide sprinkler heads as indicated on the drawings.
2. Rain Bird™ Adjustable-flow bubbler heads on flexible polyethylene pipe shall be used on all trees. If necessary, two or more bubblers may be required to ensure complete water coverage of the root zone of larger trees.

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SPECIFICATIONS FOR UNDERGROUND IRRIGATION SYSTEMS (cont.)

BACKFILLING PROCEDURES

Initial backfill on PVC lines shall be acceptable fill material, free of foreign matter. Existing and proposed plant locations shall take precedence over sprinkler and pipe locations. Coordinate the placing of trees and shrubs with the routing of lines and final head locations.

Backfill and Compaction:

Do not backfill in freezing weather except with the written approval from the Landscape Architect. Leave trenches slightly mounded to allow for settlement after the backfilling is completed. Clean the site of the work continuously of excess waste materials as the backfilling progresses, and leave in a neat condition. No trenches shall be left open for a period of more than 48 hours. Protect open trenches as required.

Carefully backfill excavated materials approved for backfilling, consisting of earth, loam, sandy, clay, sand, and other approved materials, free of rock and debris over 1" in size. Backfill shall be compacted to original density of surrounding soil without dips, sunken areas, or irregularities.

Conform to Section 02200 requirements for methods and required compaction percentages.

Hand place the first 6" of backfill (or to top of pipe) and walk on so as to secure the position of the pipe and wire. No wheel rolling will be allowed. Remove rock or debris extracted from backfill material and dispose of off-site. Fill any voids left in backfill with approved fill material.

VALVES

Isolation Valves: Shall be sized corresponding to adjacent pipe size. Specified valve boxes shall be installed flush with finish grade in such a manner that surface forces applied to their exposed area will not be transmitted to the piping in which the valve is installed.

Gate Valves: Shall be installed where shown on the drawings. See details.

Quick Coupling Valves: Shall be installed on the mainline pipe in the areas shown on the drawings. The connection between the mainline and quick coupler valve shall be with a threaded pipe and a triple swing joint.

Electric Control Valves: Shall be installed in specified valve boxes. The valve shall have 6" of 3/4" pea gravel installed below the bottom of the valve. The valve shall be connected to the mainline as shown in the details. If the valve box does not extend to the base of the valve, a valve box extension shall be installed. Electric control valves shall be installed where shown and grouped together where practical. Place no closer than 12 inches to walk edges, buildings and walls. Adjust the valve to provide flow rate or rated operating pressure for each sprinkler circuit.

CONDUIT AND SLEEVES

Conduit and Sleeves for Control Wiring and Main/Lateral Pipe: Provide and install where necessary and as indicated on the drawings. Coordinate installation of sleeves with work of other discipline.

CONTROLS

Connect electrical control valves to controllers in a clockwise sequence to correspond with station settings beginning with Stations 1, 2, 3, etc. Automatic controller shall be provided and installed as noted on the drawings. See electrical drawings for connection to power source.

MANATEE COUNTY		UNDERGROUND IRRIGATION SPECIFICATIONS	600.17
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SPECIFICATIONS FOR UNDERGROUND IRRIGATION SYSTEMS (cont.)

Adjustment and Coverage of System: Coordinate pressure testing with adjustments and coverage test of system so both may occur at the same time. Balance and adjust the various components of the system so that the overall operation of the system is most efficient. This includes a synchronization of the controllers, adjustments to pressure regulators, pressure relief valves, part circle sprinkler heads, and individual station adjustments on the controllers.

CLEAN UP

Remove from site all debris resulting from work of installation of the irrigation system.

MANATEE COUNTY		UNDERGROUND IRRIGATION SPECIFICATIONS	600.19
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GENERAL NOTES

- (1) Right-of-way permits use must be obtained and landscape plans approved prior to commencing landscape installation. The landscape plan must be legible, to scale, and show the following: right-of-way locations and dimensions, north arrow, signs, all utilities (overhead and underground), existing vegetation to be retained, and all plant species specified, quantities, sizes, locations, and spacings.
- (2) Random soil sampling is encouraged prior to design and species selection.
- (3) Plant species must be adaptable to the site conditions. Nuisance, invasive species are not permitted (see Florida Exotic Pest Plant Council, Category I and II listings). Canopy tree species notorious for drooping branches shall not be specified next to traffic lanes and sidewalks. Shrub species notorious for encroaching into infrastructure shall not be specified.
- (4) Where canopy trees are proposed, sufficient space for large root zones must be available or provided.
- (5) All trees, shrubs, and palms must be quality grade Florida #1 or better (Florida Fancy) per the most recent edition of Grades and Standards for Nursery Plants, published by the Florida Division of Plant Industry of the Department of Agriculture and consumer services or a comparable quality rating system acceptable to the Transportation Department.
- (6) Planting operations for trees, shrubs, and palms shall follow the details contained herein on sheet nos. 600.2 thru 600.5, and shall be supervised by a "certified arborist", International Society of Arboriculture or National Arborist Association.
- (7) Trees, shrubs, and palms shall not be allowed to encroach on sight windows for traffic as shown in details nos. 600.7 thru 600.9. Unless waived by the department the FDOT Roadway and Traffic Design Standards, index 546, site distance at intersections and index 700, design criteria related to highway safety, most recent revision, shall be followed.
- (8) All landscapes permitted to be installed in rights-of-way shall be maintained per the "best management practices" (bmp) for landscape maintenance, horticulture and arboriculture as identified in the American National Standards Institute (ANSI) A300 standards and the International Society of Arboriculture.
- (9) The maintenance of right-of-way landscapes shall include at a minimum the following: annual pruning of trees and shrubs per bmp, semiannual pruning and fertilizing of palms (see details 600.4 & 600.5), fertilizing of trees and shrubs as necessary per bmp. Control of damaging insect attacks, notification to the department or Cooperative Extension Service of suspected plant diseases, and monthly removal of weeds and debris. Canopy tree pruning activities shall be supervised by a certified arborist. Dead and overly-stressed plant material shall be replaced with like species and size in timely fashion.
- (10) All turf utilized shall be properly mowed, edged, and maintained per season. Mulch shall be kept in a neat appearance, replenished as necessary, and removed from streets and gutters.
- (11) Any color of survey tape is approved, provided it does not conflict with the tape used on any utility locates.

MANATEE COUNTY

TRANSPORTATION DEPARTMENT

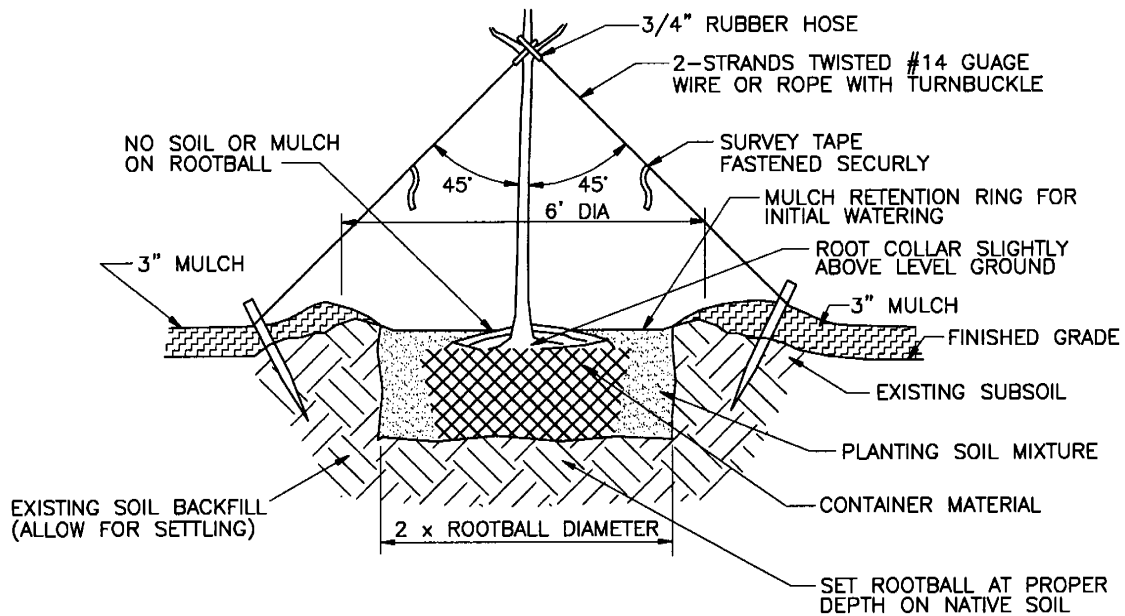
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DATE OF B.O.C.C. APPROVAL

GENERAL NOTES

600.2



TREE PLANTING DETAIL

- A) Use only high quality specimens that have rigid branches and healthy foliage; large specimens must be "hardened off".
- B) Check for physical damage and root system quality prior to planting:
 - (1) No large wounds on trunks and major branches; prune minor damage.
 - (2) No large encircling roots; prune small encircling roots.
 - (3) Trunk must be solid in rootball, not loose.
 - (4) Remove any stem sprouts to first tier of branches.
- C) Remove any container material, including wires, strings, plastic, etc.
- D) Tree must be set at proper depth—root collar at or higher than soil level with allowance for settling; never lower. No soil or mulch should be placed on top of the rootball.
- E) Prepare water retention ring with mulch, repair as necessary to contain water. Initial watering should totally saturate soil and remove air pockets. Water daily for two weeks at a minimum; reduce scope of watering depending on weather and season.
- F) Stake tree only if it cannot support its crown vertically in moderate winds, follow detail, remove stakes when trunk is able to support crown.
- G) Mulch rings shall be 2' width and must be of the same mulch variety throughout the project.

MANATEE COUNTY TRANSPORTATION DEPARTMENT

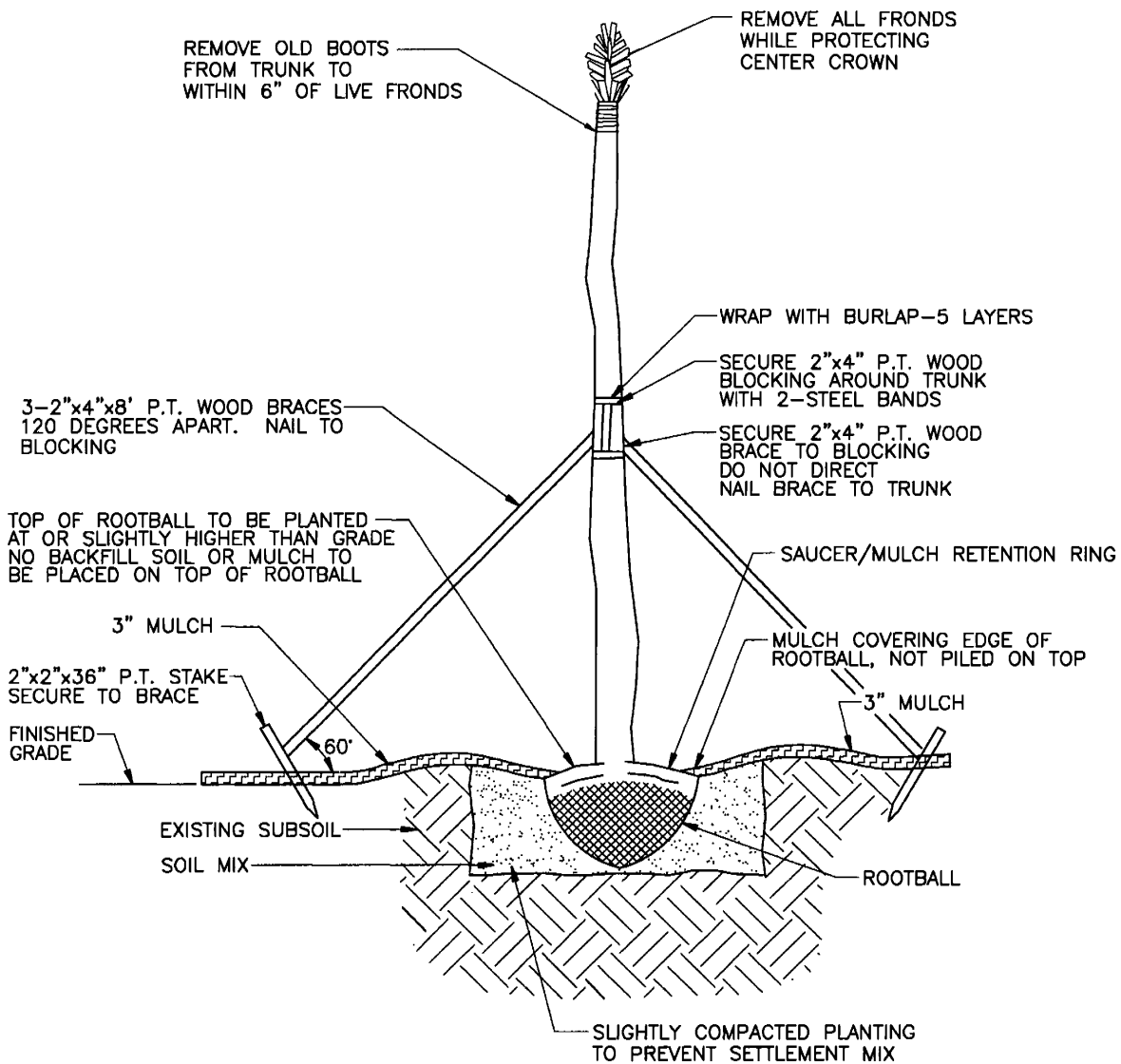
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TREE PLANTING DETAIL

600.3



CABBAGE PALM PLANTING AND BRACING DETAIL

NO SLOPES

- A) Check stem and bud for physical damage.
- B) Water initially by flooding retention ring to remove air pockets; water daily for three weeks, after which decrease gradually per weather and season.
- C) Remove all bracing after three months, or sooner if established.
- D) Refer to FDOT Index 544 for all other conditions.
- E) Mulch rings shall be 2' width and must be of the same mulch variety throughout the project.

MANATEE COUNTY
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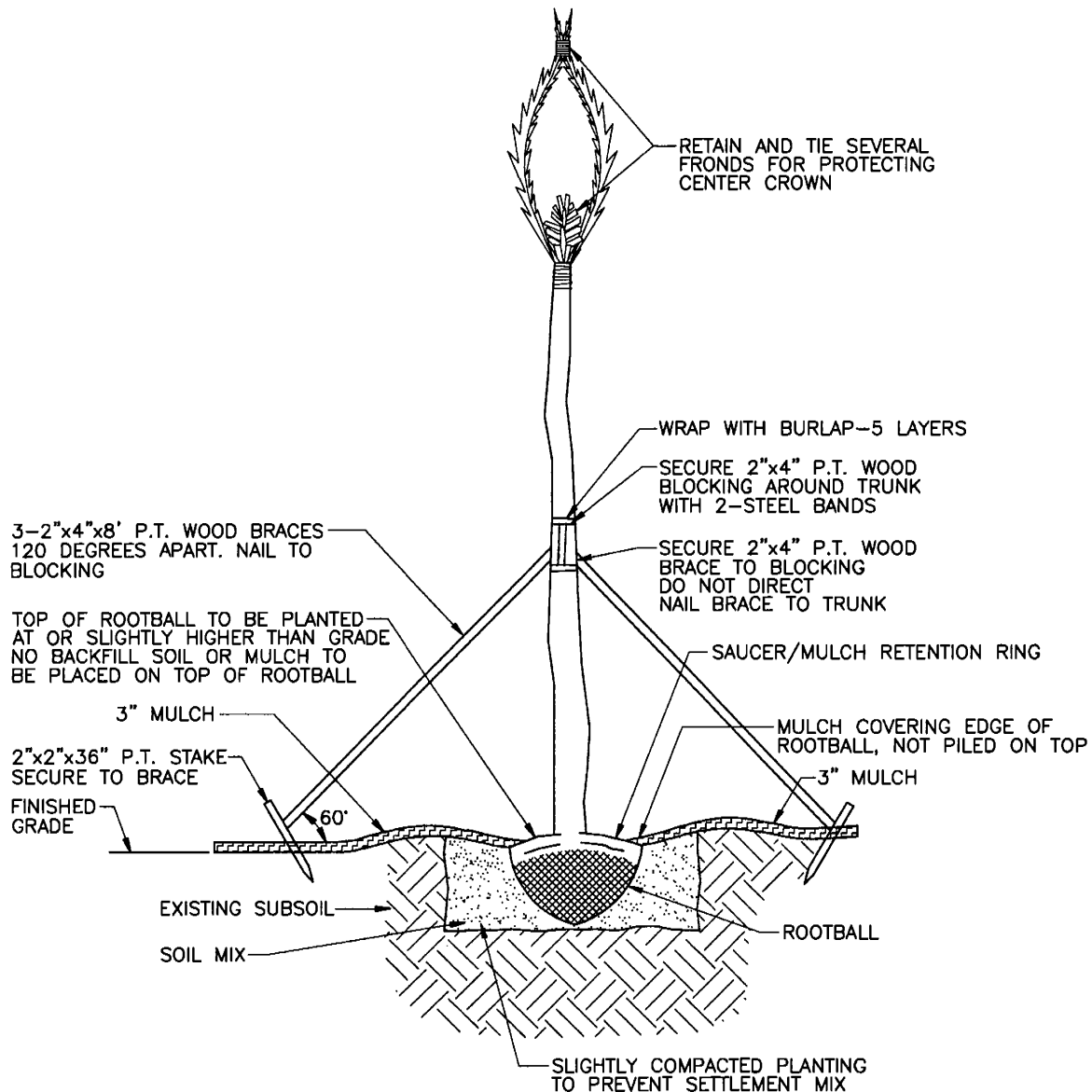
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**CABBAGE PALM
PLANTING DETAIL**

600.4

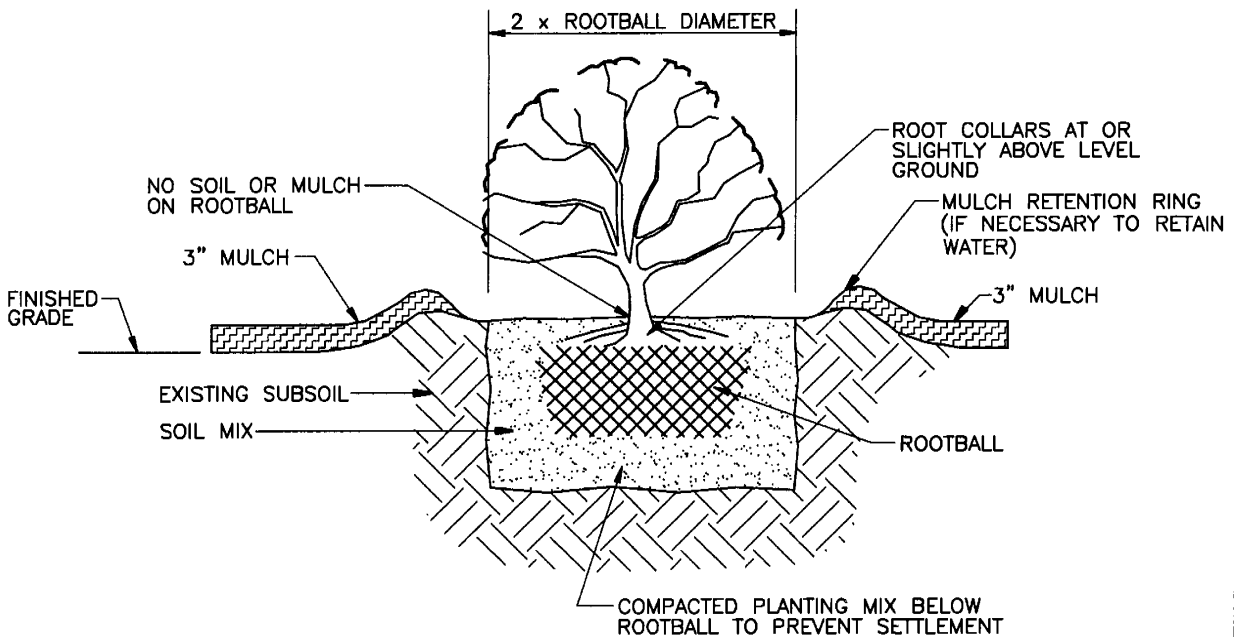


ROYAL/DATE PALM PLANTING AND BRACING DETAIL

NO SLOPES

- A) Check stem and bud for physical damage.
- B) Water initially by flooding retention ring to remove air pockets; water daily for three weeks, after which decrease gradually per weather and season.
- C) Remove all bracing after three months, or sooner if established.
- D) Refer to FDOT Index 544 for all other conditions.
- E) Mulch rings shall be 2' width and must be of the same mulch variety throughout the project.

MANATEE COUNTY			ROYAL/DATE PALM PLANTING DETAIL	600.5
TRANSPORTATION DEPARTMENT				
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SHRUB PLANTING DETAIL

NO SLOPES

- A) Use only high quality specimens that have rigid branches and healthy foliage. Florida No. 1 quality shall be required.
- B) Check for physical damage and root system quality prior to planting:
 - (1) Prune any damaged branches.
 - (2) Remove any circling stems and adventitious roots.
 - (3) Stem must be solid in rootball, not loose.
- C) Plant with root collar at or higher than finish grade, allow for settling.
- D) The use of preemergent herbicides prior to mulch installation to aid in the initial control of weeds in shrub beds is highly encouraged; always follow label for proper application rates and handling.
- E) Mulch rings shall be 2' width and must be of the same mulch variety throughout the project.

MANATEE COUNTY

TRANSPORTATION DEPARTMENT

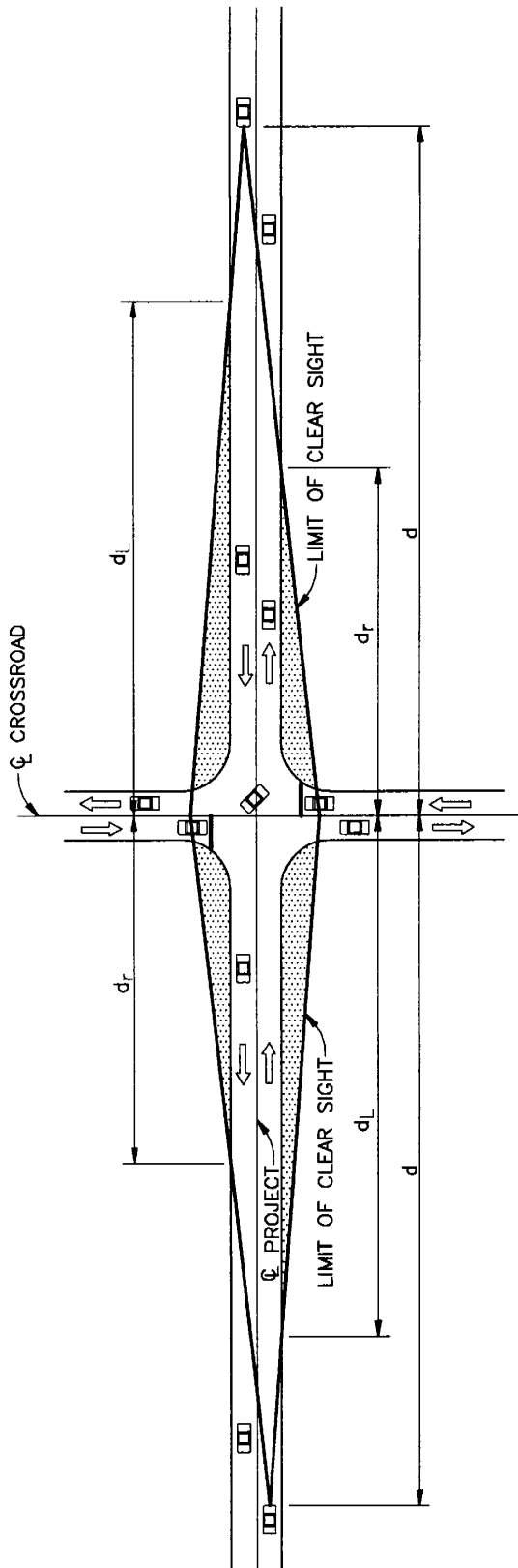
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**SHRUB
PLANTING
DETAIL**

600.6



SIGHT WINDOW DETAIL

DESIGN SPEED	d	d _L	d _r
30	380	290	200
35	470	370	250
40	580	450	310
45	710	550	380
50	840	650	450

SIGHT DISTANCE (d) AND
RELATED DISTANCES (d_L, d_r)
(FEET)

- The triangular corridors created by the limits of clear sight (shaded areas on pictorial graphic) from the table are restricted areas for all objects including plant material. Any proposed use of plant material and/or hardscapes in these areas must conform to the standards in the Sight Window Detail, Section 600.8
- The limits of sight derived from the table are based on the "design speeds" of the highway; the "posted" speed limits are usually less.
- The pictorial graphic above is based on a typical 2-lane undivided highway intersection. For multilane, divided, and higher design speed highways, refer to FDOT Roadway and Traffic Design Standards, 2002, Index 546.

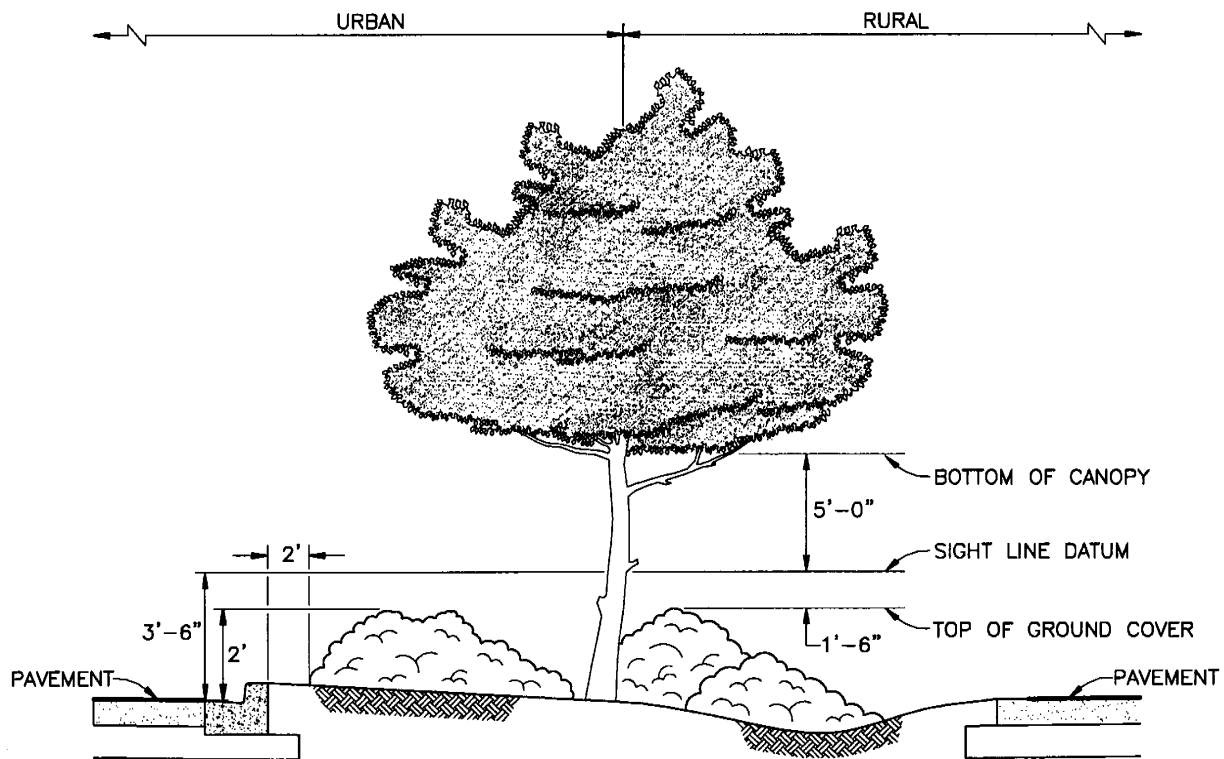
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**SIGHT DISTANCE
PLAN VIEW**

600.7

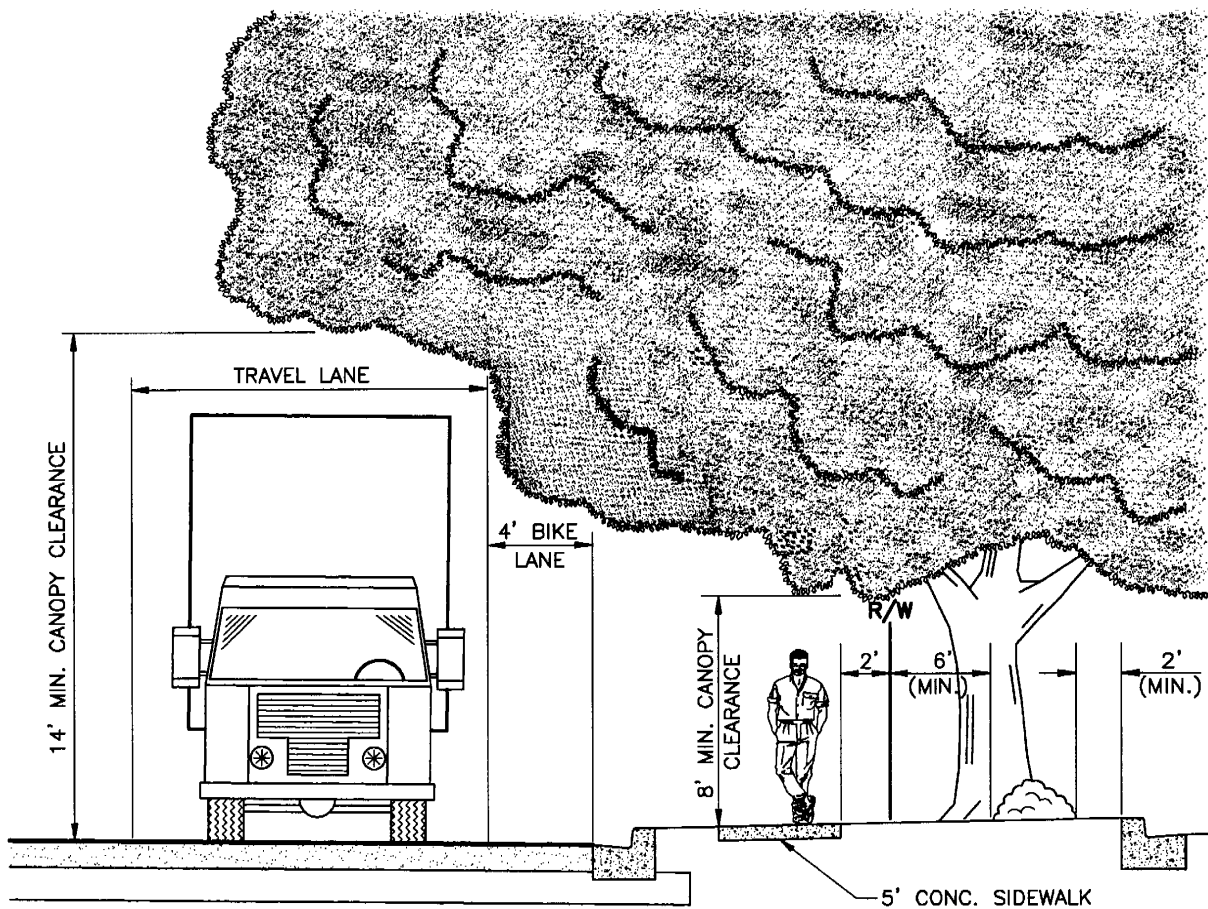


THE INTENT OF THIS STANDARD IS TO PROVIDE A WINDOW WITH VERTICAL LIMITS OF NOT LESS THAN 5' ABOVE AND 1'-6" BELOW THE SIGHT LINE DATUM, AND HORIZONTAL LIMITS DEFINED BY THE LIMITS OF CLEAR SIGHT.

SIGHT WINDOW DETAIL

- A) The intersection sight window dimensions are based on the "sight datum line" which is a straight horizontal line from the driver's eye in a car on a side street at an intersection to the eye of a driver on the approaching lane.
- B) In the condition where the "sight datum line" is level (equal height to both drivers), the minimum distances for the clear zone are:
 - (1) 1.5 feet (18 inches) above the top of vegetation or 3'-6" above parallel ground [at level ground this means the lower vegetation must be maintained at a height of no more than 2 feet (24 inches)].
 - (2) 5.0 feet (60 inches) below the bottom of a tree canopy or 8.5 feet above parallel ground.
- C) In the condition where the median is raised, the minimum clearance is raised equally for the lower vegetation and lowered equally for tree canopies; this is reversed for swaled or depressed medians.
- D) Tree stems and branches are allowed in the sight window, but all foliage must be removed and the sight window maintained free of sight blockage. All dead palm branches must be removed.
- E) The trunks of trees in the sight windows in medians and roadsides must not block more than 50% of a driver's view in any direction. This condition may require increased spacing of trees or fewer trees.
- F) See Clear Zone (Std. 402.1) for min. side setbacks.

MANATEE COUNTY TRANSPORTATION DEPARTMENT			SIGHT WINDOW DETAIL	600.8
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VERTICAL CLEARANCE DETAIL

- A) The lower canopy of all trees (both in and outside of rights-of-way) must be kept a minimum of eight (8) feet above all sidewalks.
- B) The lower canopy of all trees must be kept a minimum of fourteen (14) feet above all travel and turning lanes (includes branches and foliage).
- C) Where no sidewalk exists, trees to be planted must be a minimum of five (5) feet behind curbs or edge of pavement and shrubs or foliage must be a minimum of two (2) feet behind curbs or edge of pavement. Where sidewalk exists, trees should be planted outside of the walk (6' Typical), unless waived by the Department due to unreasonable dimensions or insufficient right-of-way.

MANATEE COUNTY			VERTICAL CLEARANCE DETAIL	600.9
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LOT DRAINAGE INDEX

	<u>SHEET NO.</u>
700 LOT DRAINAGE SPECIFICATIONS	700.0
1) GENERAL NOTES	700.1
2) LOT DRAINAGE PATTERN EXAMPLE FOR SITE	700.2
3) MID LOT TO REAR/MID LOT TO FRONT DRAINAGE PLAN	700.3
4) REAR TO FRONT LOT DRAINAGE PLAN	700.4
5) LOT GRADING RECORD DRAWING/AS-BUILT CERTIFICATION	700.5

MANATEE COUNTY

TRANSPORTATION DEPARTMENT

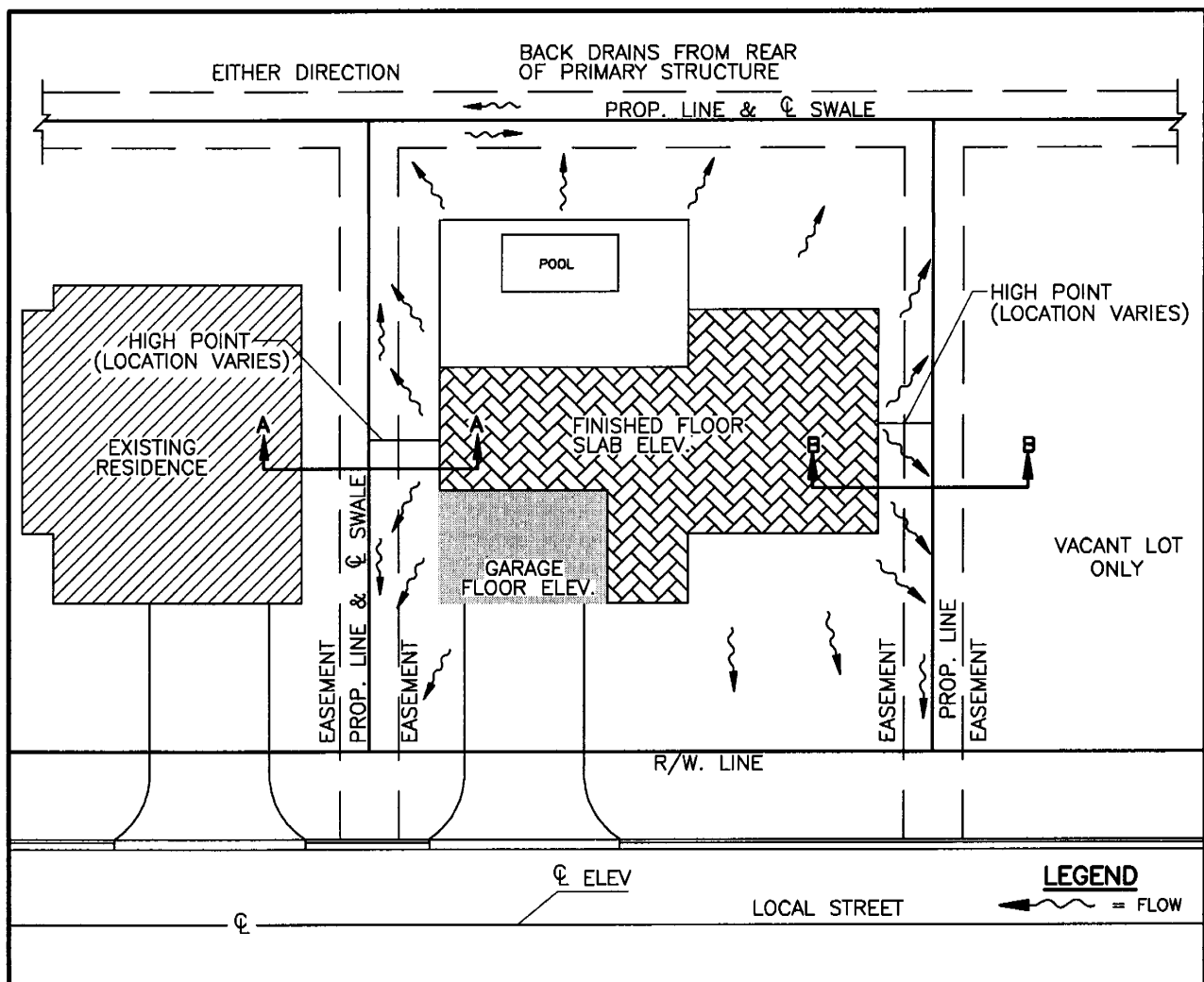
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**LOT DRAINAGE
INDEX****700.0**

GENERAL NOTES:

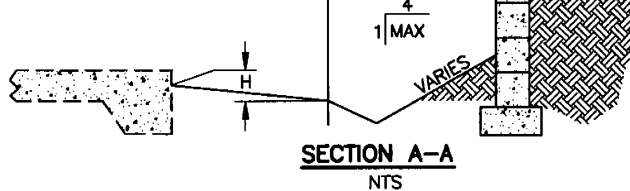
- 1.) FOR CLOSED DRAINAGE, SHOW CURBS, GUTTERS AND SIDEWALKS, IF APPLICABLE.
- 2.) EXISTING DRAINAGE SHALL BE MAINTAINED OR IMPROVED.
- 3.) MINIMUM DRIVEWAY RISE FROM CURB TO GARAGE IS 1%.
- 4.) SHOW ALL EASEMENTS.
- 5.) MINIMUM GRADE SLOPES ARE AS FOLLOWS: FRONT YARD -- 2.0%; REAR AND SIDE YARDS -- 1.5%; SWALES -- 1.0%.
- 6.) MINOR MODIFICATIONS TO ACCOMMODATE SPECIAL CONDITIONS SUCH AS TREES MAY BE APPROVED BY THE ACCESS/DRAINAGE INSPECTOR.
- 7.) LOTS WITH SPECIAL CONDITIONS MAY HAVE SLOPES BASED ON AN ENGINEER'S DETAILED DESIGN APPROVED BY THE TRANSPORTATION DIRECTOR OR A DESIGNEE.
- 8.) DEVIATIONS DUE TO EXISTING TREES, VEGETATION OR OTHER EXTENUATING CIRCUMSTANCES MAY BE APPROVED. DIFFICULTIES ARISING FROM SUCH DEVIATIONS ARE THE RESPONSIBILITY OF THE PROPERTY OWNER TO SATISFACTORILY RESOLVE.
- 9.) LOT SLOPES APPLY TO A 75' RADIUS FROM THE EDGE OF HOUSE. THE INTENT IS TO ALLOW FLEXABILITY ON LARGER LOTS.
- 10.) ALL CONFLICTS SHALL BE REMEDIED TO THE SATISFACTION OF THE TRANSPORTATION DIRECTOR.
- 11.) PERMITTEE SHALL SUBMIT A COPY OF THE APPROVED SUBDIVISION DRAINAGE PLAN. SIZE REQUIREMENTS ARE 8-1/2"x11", 8-1/2"x14" OR 11"x17" AT A SCALE OF 1"=100' OR 1"=200' FOR LOTS OF 5 ACRES OR MORE.

MANATEE COUNTY		LOT DRAINAGE GENERAL NOTES	700.1
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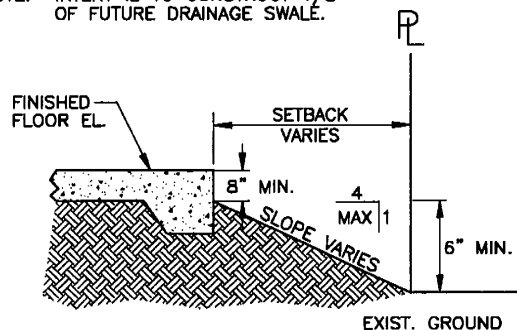


NOTE: THE INTENT IS TO CONVEY RUNOFF TO THE PUBLIC R/W BY USING ONE, OR ANY COMBINATION OF, BUT NOT LIMITED TO: SWALES, GUTTERS, YARD DRAINS, SEEPAGE TRENCHES OR SLOTTED PIPE.

IF 'H' < 6"



NOTE: INTENT IS TO CONSTRUCT 1/2 OF FUTURE DRAINAGE SWALE.



NOTES:

- 1.) STEM WALL FOUNDATION REQUIRED IF 4:1 MAX. GRADE SLOPES CANNOT BE ACHIEVED WITH MONOLITHIC SLAB DESIGN.
- 2.) ALL MEASUREMENTS ARE EQUIVALENT TO TOP OF SOD MULCH.
- 3.) THIS STANDARD IS INTENDED TO APPLY FOR INFILL LOTS.

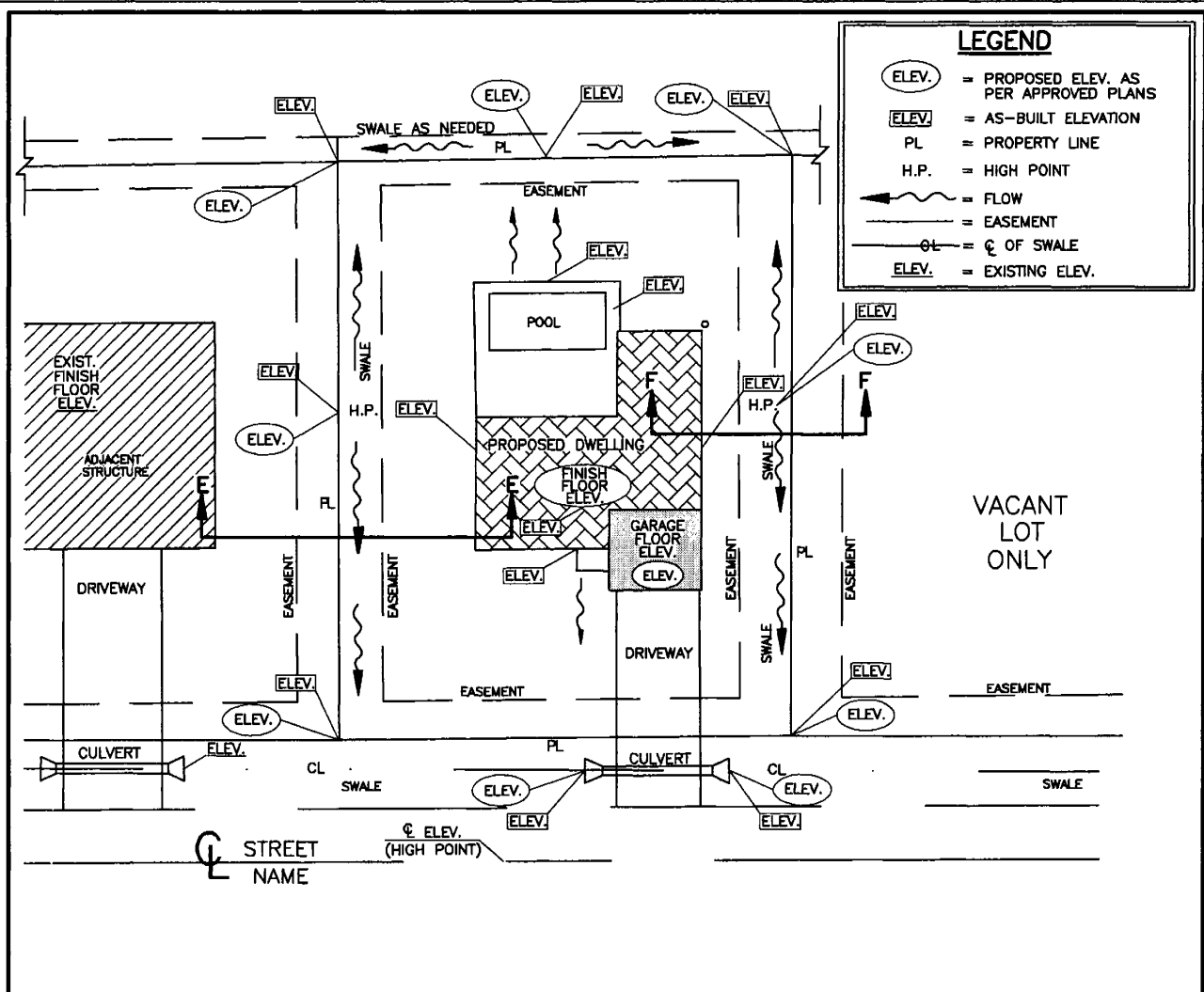
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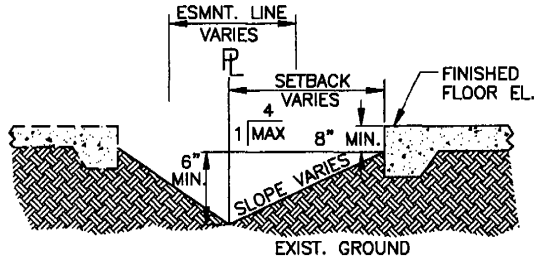
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**LOT DRAINAGE
PATTERN
EXAMPLE FOR SITE**

700.2

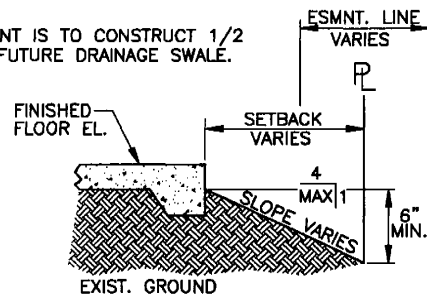


NOTE: INTENT IS TO CONSTRUCT REMAINDER OF DRAINAGE SWALE.



SECTION E-E
NTS

NOTE: INTENT IS TO CONSTRUCT 1/2 OF FUTURE DRAINAGE SWALE.



SECTION F-F
NTS

NOTES:

- 1.) USE SECTION F-F IF NO SIDE OR REAR LOT LINE DRAINAGE SWALES ARE PRESENT. THE PROPOSED TOE OF SLOPE ELEVATION MUST MATCH THE EXISTING GRADE AT THE PROPERTY LINE.
- 2.) FOR MID LOT TO BACK/FRONT, FINISH FLOOR ELEVATION = 21" MINIMUM ABOVE C OF ROADWAY.

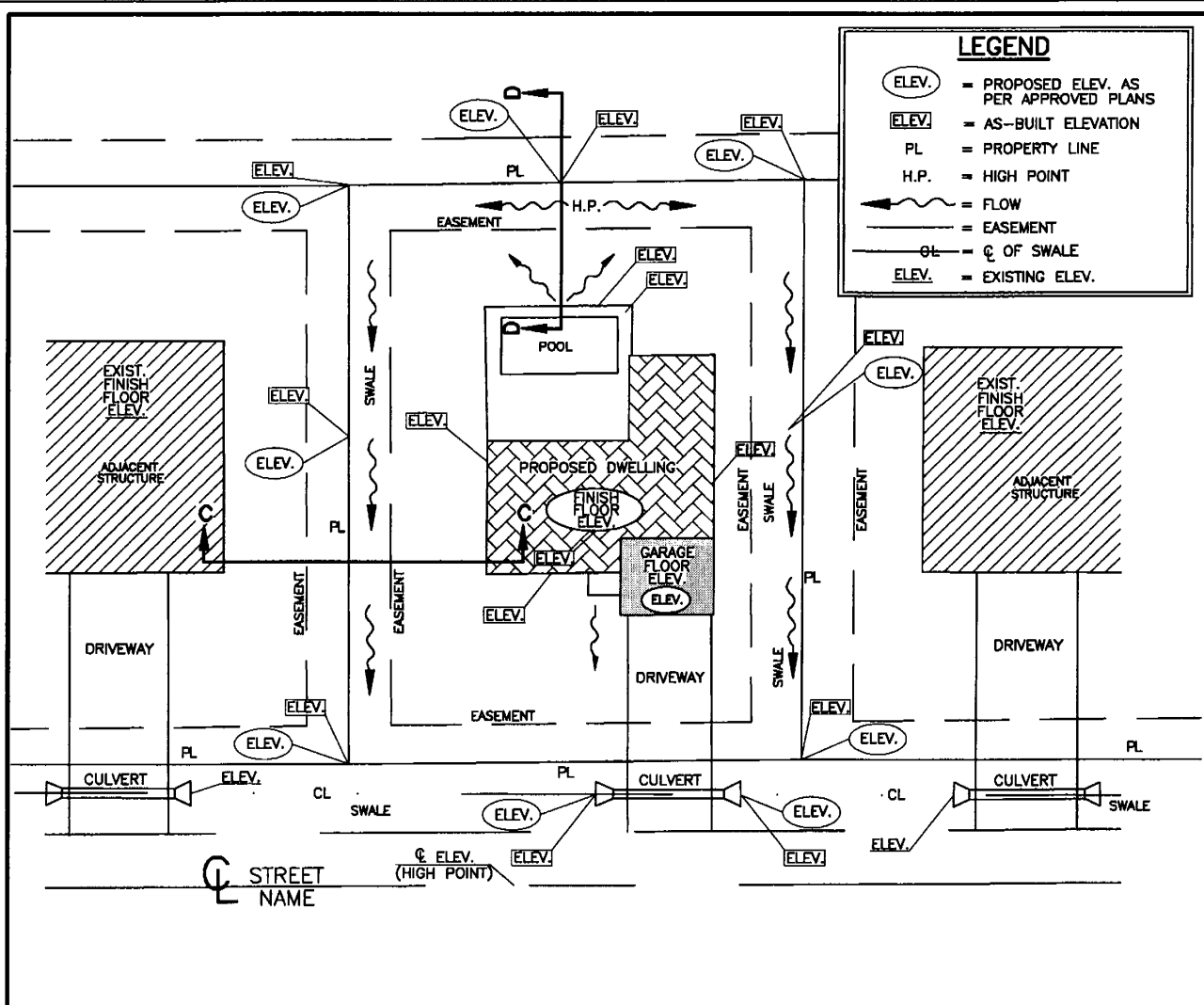
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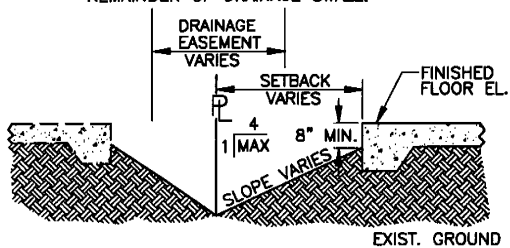
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**MID LOT TO BACK/
MID LOT TO FRONT
DRAINAGE PLAN**

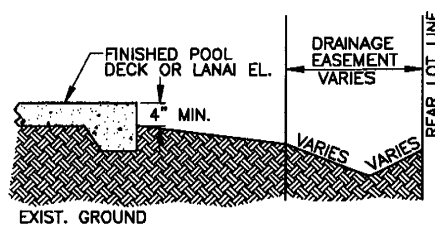
700.3



NOTE: INTENT IS TO CONSTRUCT
REMAINDER OF DRAINAGE SWALE.



SECTION C-C
NTS



SECTION D-D
NTS

NOTES:

- 1.) USE SECTION D-D IF NO SIDE OR REAR LOT LINE DRAINAGE SWALES ARE PRESENT.
THE PROPOSED TOE OF SLOPE ELEVATION MUST MATCH THE EXISTING GRADE AT THE PROPERTY LINE.
- 2.) FOR REAR TO FRONT LOT DRAINAGE, FINISH FLOOR ELEVATION = 24" MINIMUM ABOVE C OF ROADWAY.

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**REAR TO FRONT
LOT DRAINAGE PLAN**

700.4

AS-BUILT REQUIREMENTS INDEX

SHEET NO.

800 AS-BUILT REQUIREMENTS

800.0

- 1) AS-BUILT REQUIREMENTS FOR
PAVING, GRADING & DRAINAGE

801.0-3

- 2) AS-BUILT REQUIREMENTS FOR
SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

802.0-1

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**AS-BUILT
REQUIREMENTS
INDEX**

800.0

AS-BUILT REQUIREMENTS FOR PAVING, GRADING & DRAINAGE

DRAINAGE, PAVING AND GRADING RECORD DRAWINGS

GENERAL

When construction is complete, record drawings, indicating the locations and elevations of the improvements that have been built, shall be provided to Manatee County. The record drawings shall be a special revision of the construction drawings, and shall depict design information crossed out (or screen shaded) and replaced by accurate record information.

RECORD INFORMATION

- A. All stormwater drainage systems underdrain cleanouts, catch basins, junction boxes and any other structures located in the right-of-way or an easement, shall be located by elevation and by station and offset based on intersection PT's and centerline of right-of-way. For facilities located on private roads, the dimensioning shall be from centerline of paving or another readily visible baseline.
- B. Elevations shall be provided for all catch basin rim and inverts; junction box rim and inverts; control structure top of grate, baffle, weir, orifice, oil skimmer and inverts. Elevations shall also be provided at the PVI's and at every other lot line or 200 feet, whichever is less, of drainage swales and ditches. Bench marks and elevation datum shall be indicated.
- C. Slopes for pipes and ditches shall be recalculated, based on actual field measured distances, elevations, pipe size and type shown. Cross section of drainage ditches and swales shall be verified.
- D. Centerline of roads shall be tied to right-of-way lines. Elevation of roadway centerline shall be given at PVI's and at all intersections.
- E. Record drawings shall show bearings and distances for all right-of-way and easement lines and property corners.
- F. Locations and elevations of drainage ditches and swales shall be shown every 200 feet (measured along the centerline) or alternate lot lines, whichever is closer. Dimensions at these locations shall indicate distance from the centerline of right-of-way to the facility.
- G. Sidewalks, fences and walls, if installed at the time of initial record drawing submittal, shall be located every 200 feet or alternate lot lines, whichever is closer. Dimensions shall include distance from the right-of-way line and the back of curb and lot line or easement line.
- H. Retention ponds elevations shall be shown for high water level, normal water level, top of bank, bank side slopes and bottom of dry ponds verified.

MANATEE COUNTY		PAVING, GRADING & DRAINAGE AS-BUILT REQUIREMENTS	801.0
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AS-BUILT REQUIREMENTS FOR PAVING, GRADING & DRAINAGE (cont.)

- I. Underdrain cleanouts for retention systems outside the right-of-way shall be located by station and offset from an appropriate baseline.
- J. On record drawings, at locations where the horizontal positions of constructed pipelines or other stormwater structures deviate by more than 5 feet (as scaled on the drawing) from the horizontal positions that were shown on the construction drawings, the actual positions of the pipelines or structures shall be measured and they shall be depicted in their actual positions on the record drawings and their original design positions shall be crossed-hatched out or screen shaded.

REQUIREMENTS AS TO FORM

- A. Every set of record drawings shall have a cover sheet with a vicinity map, which shows where the project is located, and a key map, which shows where each sheet in the record drawing set is located inside the project boundaries.
- B. Each sheet of the record drawings shall have the title "DRAINAGE, PAVING AND GRADING RECORD DRAWING" printed on it in large, bold lettering, near the title block.
- C. Record drawing information submitted in tabular form shall not be accepted. Record information notes shall be positioned individually on the drawings near the depictions of structures to which each note corresponds.
- D. Record information notes shall be bold, italics, boxed or clouded to identify them as record information.
- E. Record drawings shall have a revision note such as "Record drawing" in the revision block and a date corresponding to the date the record drawing was issued.
- F. Record information shall be presented in a clear and comprehensible form.
- G. The drawing scales used in the record drawings shall be the same as were used in the construction drawings, and the sheet number of each record drawing sheet shall be the same as the sheet numbers that were used on the construction drawings from which the record drawings originate.
- H. All sheets that were used to depict locations and elevations of drainage structures in the construction drawings shall be included in the record drawing set.
- I. Record drawings shall accurately depict all existing improvements lying within the immediate vicinity of the constructed stormwater system. Existing improvements shall include, but not be limited to: sidewalks, walls, fences, road surfaces, buildings, and other utilities. Rights of way, easements, and property corners shall be shown and shall be of sufficient detail as to

MANATEE COUNTY		PAVING, GRADING & DRAINAGE AS-BUILT REQUIREMENTS	801.1
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AS-BUILT REQUIREMENTS FOR PAVING, GRADING & DRAINAGE (cont.)

constructed stormwater systems are within the easements or rights of way. A reference to the recording document (O.R. Book or Plat Book and Page) shall be included with any depiction of a right-of-way or easement.

- J. Each roadway depicted on the drawings shall have the correct roadway name noted on it. Provisional roadway names, such as "Street A", shall not be allowed on the record drawings. Each new lot of a new subdivision shall have its street address number noted on the record drawings.
- K. Horizontal locations required for stormwater structures shall be to the center of each installation. Top of ground or pavement elevations required along pipelines shall be reported to the nearest 0.1 feet. Top of pipe elevations shall be to the nearest 0.1 feet. Elevations of catch basin rims and junction box pipe inverts shall be reported to the nearest 0.01 feet. Horizontal locations of all features shall be reported to the nearest 0.1 feet.
- L. Computer drawing files submitted shall be AutoCad® Release 14 or later release date versions. All reference files required to recreate the signed and sealed record drawings shall be included in the submitted digital files. Computer drawing files format shall be DWG only and shall be Windows NT or Windows 2000 or Windows XP compatible.

MONUMENTATION

- A. Record information shall be referenced by station and offset to a monumented baseline. The monumentation for the baseline shall be shown or described on the record drawing (i.e. iron rod & cap, nail & disk or other durable and identifiable monument). For each baseline, there shall be at least two monuments described and referenced. State Plane Coordinates for the monuments shall be shown in NAD 83 (99 adjustment) in feet. Developments not within existing or proposed subdivisions and not within 1.5 miles from existing Manatee County Primary Control Points or platted State Plane Coordinates may be exempted from the requirement for monuments to be based on State Plane Coordinates.
- B. The alignment of the baseline shall be along the centerline or edge of one of the following: an existing paved road, recorded right-of-way, recorded easement, face of an existing building, existing sidewalk or other existing, identifiable reference line. Offsets from the baseline shall not exceed 150 feet. All elevations shown on record drawings shall be referenced to a minimum of two described bench marks. A minimum of one on-site bench mark shall be described including datum. All bench marks shall be based upon NGVD29 or NAVD88 (NAVD 88 preferred).
- C. All locations and elevations shall be field located by or under the direct supervision of a Florida Licensed Surveyor and Mapper.

MANATEE COUNTY		PAVING, GRADING & DRAINAGE AS-BUILT REQUIREMENTS	801.2
TRANSPORTATION DEPARTMENT			
REV. BY	DATE		
6/12/07			
DATE OF B.O.C.C. APPROVAL			

AS-BUILT REQUIREMENTS FOR PAVING, GRADING & DRAINAGE (cont.)

CERTIFICATIONS

- A. Record Drawings shall be certified by a Florida Licensed Surveyor and Mapper. The certification shall state that the Record Locations and Elevations depicted on the Record Drawing are true and correct and were collected in the field by the Surveyor and Mapper or by a representative under the direct supervision of the Surveyor and Mapper. Certifier shall be fully responsible for the accuracy of the Record Locations and Elevations.
- B. Record Drawings shall be certified by the Engineer-of-Record. The certification must state that the improvements have been constructed in substantial conformance with the approved plans.
- C. Record drawings may not include any statement that the information was obtained from another party other than the Surveyor and Mapper or Engineer of Record. Statements such as "as-built information provided by contractor" shall not be permitted.

SUBMITTALS

- A. Record drawing submittal materials shall be attached to a transmittal letter, which shall list the following information:

Submittal date.

Project Title.

Planning Department Final Site Plan number.

Title and sheet number of each record drawing sheet submitted.

- B. Initially, the following materials shall be submitted for review and approval:

- Transmittal letter,
- One checkprint copy of the record drawings,
- Final plats and/or easements when applicable,
- Final breakdown of construction quantities and final costs when applicable,
- Performance bonds and warranties when applicable,
- A copy of all of the infrastructure inspection reports, and
- Up to four copies each of the water and wastewater Completion of Construction forms, fully signed, sealed and dated by the owner and engineer, of which one of each will be retained for the County's records.

- C. Once the checkprint copy of the record drawings has been reviewed and all corrections have been made, notification will be given to the engineer to make the final submittal, which shall consist of the following materials:

- Transmittal letter,
- One set original mylar record drawings,
- Three copies of the record drawings plan set, each signed, dated and sealed by the engineer of record,
- One 3 1/2-inch floppy or CD ROM copy of the record drawings plan set.

MANATEE COUNTY		PAVING, GRADING & DRAINAGE AS-BUILT REQUIREMENTS	801.3
TRANSPORTATION DEPARTMENT			
REV. BY	DATE	6/12/07 DATE OF B.O.C.C. APPROVAL	

AS-BUILT REQUIREMENTS FOR SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT

AS-BUILT DRAWINGS AND INFORMATION CHECKLIST

Following is a list of information that is to be verified and submitted by the Engineer of Record in support of the Statement of Completion.

1. On behalf of the permittee, the Engineer shall certify that:
 - a. At the time of final inspection, the surface water management system was completed substantially in accordance with the permitted construction plans and information. Any minor deviations from the permitting plans and specification will not prevent the system from functioning in compliance with the requirements of Chapters 40D-4 and 40D-40, or 40D-45, or 40D-6, F.A.C. (The as-built drawings and information submitted to the District shall confirm this certification; or
 - b. At the time of final inspection, the system was NOT completed in substantial conformance with the permitted construction plans and information. (The registered professional engineer shall describe the deviation(s) in writing, and provide confirming depiction on the as-built drawings and information.)
2. The Engineer's certification shall be based upon on-site observation of construction (scheduled and conducted by the professional engineer of record or by a project representative under direct supervision) and review of as-built drawings, with field measurements and verification as needed, for the purpose of determining if the work was completed in accordance with original permitted construction plans, information and specifications.
3. The as-built drawings are to be based on the District permitted construction drawings revised to reflect any changes made during construction. Both the original design and constructed condition must clearly be shown. The plans need to be clearly labeled as "as-built" or "record" drawings. As required by law, all surveyed dimensions and elevations required shall be verified and signed, dated and sealed by a Florida registered professional surveyor and mapper or professional engineer. The following information, at a minimum, shall be verified on the as-built drawings, and supplemental documents if needed:
 - a. Discharge structures – Locations, dimensions and elevations of all, including weirs, orifices, gates, pumps, pipes, and oil and grease skimmers;
 - b. Side bank and underdrain filters, or exfiltration trenches – locations, dimensions and elevations of all including clean-outs, pipes, connections to control structures and points of discharge to receiving waters;
 - c. Storage areas for treatment and attenuation – dimensions, elevations, contours or cross-sections of all, sufficient to determine stage-storage relationships of the storage area and the permanent pool depth and volume below the control elevation for normally wet systems;

MANATEE COUNTY
TRANSPORTATION DEPARTMENT

REV. BY DATE

6/12/07

DATE OF B.O.C.C. APPROVAL

**AS-BUILT
REQUIREMENTS
FOR S.W.F.W.M.D.**

802.0

AS-BUILT REQUIREMENTS FOR SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (cont.)

- a. System grading – dimensions, elevations, contours, final grades or cross-sections to determine contributing drainage areas, flow directions and conveyance of runoff to the system discharge point(s);
 - b. Conveyance – dimensions, elevations, contours, final grades or cross-sections of systems utilized to divert off-site runoff around or through the new system;
 - c. Water levels – existing water elevation(s) and the date determined;
 - d. Benchmark(s) – location and description (minimum of one per major water control structure); and
 - e. Wetland mitigation or restoration areas – Show the plan view of all areas, depicting a spatial distribution of plantings conducted by zone (if plantings are required by permit), with a list showing all species planted in each zone, numbers of each species, sizes, date(s) planted and identification of source of material; also provide the dimensions, elevations, contours and representative cross-sections depicting the construction.
2. Submit the final subdivision plat or other legal documents, as recorded in the county public records, showing dedicated rights-of-way, easement locations and special use areas that are reserved for water management purposes and continuing operation and maintenance.
 3. Additional information will be shown on the as-built drawings or otherwise provided as needed to verify and support the Statement of Completion (example: home owners association final documents, and other items required by permitting conditions.)

MANATEE COUNTY TRANSPORTATION DEPARTMENT		AS-BUILT REQUIREMENTS FOR S.W.F.W.M.D.	802.1
REV. BY	DATE		
6/12/07 DATE OF B.O.C.C. APPROVAL			

ATTACHMENT 'D'

General Decision Number: FL130024 08/30/2013 FL24

Superseded General Decision Number: FL20120024

State: Florida

Construction Type: Building

County: Manatee County in Florida.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Modification Number	Publication Date
0	01/04/2013
1	03/29/2013
2	08/30/2013

ELEC0915-002 12/01/2011

	Rates	Fringes
ELECTRICIAN		
All building work other than Industrial Work which includes Telephone, Utility Companies, and Water Treatment Plants and also excludes Educational, Theme Park, Hospital Facilities.....		
	\$ 22.51	34%+\$0.22
Educational, Theme Park, Hospital Facilities, electrical contract under \$200,000.....		
	\$ 20.08	34%+\$0.22

ENGI0925-003 01/01/2012

	Rates	Fringes
OPERATOR: Crane		
Crawler Cranes; Truck Cranes; Pile Driver Cranes; Rough Terrain Cranes; and Any Crane not otherwise described below...		
	\$ 28.91	10.74
Hydraulic Cranes Rated 100 Tons or Above but Less Than 250 Tons; and Lattice Boom Cranes Less Than 150 Tons if not described below.		
	\$ 29.91	10.74
Lattice Boom Cranes Rated at 150 Tons or Above; Friction Cranes of Any Size; Mobile Tower Cranes or Luffing Boom Cranes of Any Size; Electric Tower Cranes; Hydraulic Cranes Rated at 250 Tons or		

Above; and Any Crane
 Equipped with 300 Foot or
 More of Any Boom
 Combination.....\$ 30.91 10.74
 OPERATOR: Mechanic.....\$ 28.91 10.74
 OPERATOR: Oiler.....\$ 22.38 10.74
 OPERATOR: Boom Truck.....\$ 28.91 10.74

IRON0397-001 07/01/2012

	Rates	Fringes
IRONWORKER, ORNAMENTAL, REINFORCING AND STRUCTURAL.....	\$ 27.67	12.59

* PLUM0123-001 05/01/2013

	Rates	Fringes
PIPEFITTER (HVAC Pipe Installation).....	\$ 23.65	13.24

SHEE0015-002 07/01/2011

	Rates	Fringes
SHEET METAL WORKER (HVAC Duct Installation Only).....	\$ 20.95	12.63

SUFL2009-020 05/22/2009

	Rates	Fringes
BRICKLAYER.....	\$ 18.95	0.00
CARPENTER, Includes Form Work....	\$ 15.89	0.00
CEMENT MASON/CONCRETE FINISHER...	\$ 13.05	1.49
INSULATOR - PIPE & PIPEWRAPPER...	\$ 13.13	3.03
LABORER: Asphalt Shoveler.....	\$ 7.88	0.00
LABORER: Common or General.....	\$ 9.42	0.00
LABORER: Concrete Saw (Hand Held/Walk Behind).....	\$ 12.63	0.00
LABORER: Mason Tender - Brick...	\$ 13.00	0.00
LABORER: Mason Tender - Cement/Concrete.....	\$ 12.83	1.90
LABORER: Pipelayer.....	\$ 12.31	1.19
LABORER: Roof Tearoff.....	\$ 8.44	0.00
LABORER: Landscape and Irrigation.....	\$ 12.00	0.00

OPERATOR: Asphalt Spreader.....	\$ 11.41	0.00
OPERATOR: Backhoe.....	\$ 11.00	0.00
OPERATOR: Bulldozer.....	\$ 15.01	0.00
OPERATOR: Distributor.....	\$ 12.37	0.00
OPERATOR: Forklift.....	\$ 14.00	0.00
OPERATOR: Grader/Blade.....	\$ 13.73	0.00
OPERATOR: Loader.....	\$ 13.80	1.79
OPERATOR: Paver (Asphalt, Aggregate, and Concrete).....	\$ 11.69	0.00
OPERATOR: Pump.....	\$ 19.00	0.00
OPERATOR: Roller.....	\$ 10.68	0.00
OPERATOR: Screed.....	\$ 11.34	0.00
OPERATOR: Tractor.....	\$ 9.91	0.00
OPERATOR: Trencher.....	\$ 11.75	0.00
PAINTER: Brush, Roller and Spray.....	\$ 14.00	0.43
PIPEFITTER, Excludes HVAC Pipe Installation.....	\$ 17.83	0.00
PLUMBER.....	\$ 13.58	0.00
ROOFER (Installation of Metal Roofs Only).....	\$ 14.26	0.59
ROOFER, Includes Built Up, Hot Tar, Modified Bitumen, Shake & Shingle, Single Ply, Slate, & Tile Roofs (Excludes Installation of Metal Roofs).....	\$ 14.00	0.43
SHEET METAL WORKER, Excludes HVAC Duct Installation.....	\$ 18.79	3.21
TILE SETTER.....	\$ 14.61	0.00
TRUCK DRIVER: Dump Truck.....	\$ 10.00	0.00
TRUCK DRIVER: Lowboy Truck.....	\$ 12.09	0.00

WELDERS - Receive rate prescribed for craft performing
operation to which welding is incidental.

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Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of "identifiers" that indicate whether the particular rate is union or non-union.

Union Identifiers

An identifier enclosed in dotted lines beginning with characters other than "SU" denotes that the union classification and rate have found to be prevailing for that classification. Example: PLUM0198-005 07/01/2011. The first four letters, PLUM, indicate the international union and the four-digit number, 0198, that follows indicates the local union number or district council number where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. The date, 07/01/2011, following these characters is the effective date of the most current negotiated rate/collective bargaining agreement which would be July 1, 2011 in the above example.

Union prevailing wage rates will be updated to reflect any changes in the collective bargaining agreements governing the rates.

0000/9999: weighted union wage rates will be published annually each January.

Non-Union Identifiers

Classifications listed under an "SU" identifier were derived from survey data by computing average rates and are not union rates; however, the data used in computing these rates may include both union and non-union data. Example: SULA2004-007 5/13/2010. SU indicates the rates are not union majority rates, LA indicates the State of Louisiana; 2004 is the year of the survey; and 007 is an internal number used in producing the wage determination. A 1993 or later date, 5/13/2010, indicates the classifications and rates under that identifier were issued as a General Wage Determination on that date.

Survey wage rates will remain in effect and will not change until a new survey is conducted.

WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- * an existing published wage determination
- * a survey underlying a wage determination
- * a Wage and Hour Division letter setting forth a position on a wage determination matter
- * a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations
Wage and Hour Division
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request review and reconsideration from the Wage and Hour Administrator (See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board
U.S. Department of Labor
200 Constitution Avenue, N.W.
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION

ATTACHMENT “E”

FEDERAL TRANSIT ADMINISTRATION CONTRACT CLAUSES

INDEX

1. Fly America Requirements
2. Buy America Requirements
3. Cargo Preference Requirements
4. Seismic Safety Requirements
5. Energy Conservation Requirements
6. Clean Water Requirements
7. Lobbying
8. Access to Records and Reports
9. Federal Changes
10. Bonding Requirements
11. Clean Air
12. Recycled Products
13. Davis-Bacon and Copeland Anti-Kickback Acts
14. Contract Work Hours and Safety Standards Act
15. No Government Obligation to Third Parties
16. Program Fraud and False or Fraudulent Statements and Related Acts
17. Termination
18. Government-wide Debarment and Suspension (Nonprocurement)
19. Privacy Act
20. Civil Rights Requirements
21. Breaches and Dispute Resolution
22. Disadvantaged Business Enterprises (DBE)
23. Incorporation of Federal Transit Administration (FTA) Terms
24. ADA Access

FEDERAL TRANSIT ADMINISTRATION (FTA) CONTRACT CLAUSES

1. FLY AMERICA REQUIREMENT

49 U.S.C. §40118
41 CFR Part 301-10

Applicable to: *Contracts that have transportation of persons or property, by air, between a place in the U.S. and a place outside the U.S., or between places outside the U.S., when the FTA will participate in the costs of such air transportation.*

2. BUY AMERICA REQUIREMENTS

49 U.S.C. 5323 (j)
49 C.F.R. Part 661

Applicable to: *Construction contracts and acquisition of goods or rolling stock (valued at more than \$100,000).*

The Contractor agrees to comply with 49 U.S.C. 5323(j) and 49 C.F.R. Part 661, which provide that Federal Funds may not be obligated unless steel, iron and manufactured products used in FTA-funded projects are produced in the United States, unless a waiver has been granted by FTA or the product is subject to a general waiver. General waivers are listed in 49 C.F.R. 661.7, and include final assembly in the United States for 15 passenger vans and 15 passenger wagons produced by Chrysler Corporation, and microcomputer equipment and software. Separate requirements for rolling stock are set out at 49 U.S.C. 5323(j)(2)© and 49 C.F.R. 661.11. Rolling stock must be assembled in the United States and have a 60 percent domestic content.

A bidder or offeror must submit to the FTA recipient the appropriate Buy America certification which is made a part of the Invitation for Bid. Bids that are not accompanied by a completed Buy America certification shall be rejected as nonresponsive. This requirement does not apply to lower tier subcontractors

The certification titled *Buy America* must be completed and returned with your bid. The certification is located behind the bid form.

3. CARGO PREFERENCE REQUIREMENTS

46 U.S.C. 1241
46 CFR Part 381

Applicable to: *All contracts involving equipment, materials, or commodities which may be transported by ocean vessels.*

4. SEISMIC SAFETY REQUIREMENTS

42 U.S.C. 7701 ET SEQ 49
CFR Part 41

Applicable to: Only to construction of new buildings or additions to existing buildings

5. ENERGY CONSERVATION REQUIREMENT

42 U.S.C. 6321 et seq.
49 CFR Part 18

Applicable to: All Contracts

The Contractor agrees to comply with mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act.

6. CLEAN WATER REQUIREMENTS

33 U.S.C. 1251

Applicable to: All contracts and subcontracts which exceed \$100,000

The Contractor (1) agrees to comply with all applicable standards, orders or regulations issued pursuant to the Federal Water Pollution Control Act, as amended, 33 U.S.C. 1251 et seq. The Contractor agrees to report each violation to the County and understands and agrees that the County will, in turn report each violation as required to assure notification to FTA and the appropriate EPA Regional Office.

(2) The Contractor also agrees to include these requirements in each subcontract exceeding \$100,000 financed in whole or in part with Federal assistance provided by FTA.

7. LOBBYING

31 U.S.C. 1352
49 CFR Part 19
49 CFR Part 20

Applicable to Contracts:

The Lobbying requirements apply to Construction/Architectural and Engineering Acquisition of Rolling Stock/Professional Service Contract/Operational Service Contract/Turnkey contracts.

The Lobbying requirements mandate the maximum flow down, pursuant to Byrd Anti-Lobbying Amendment, 31 U.S.C. § 1352(b)(5) and 49 C.F.R. Part 19, Appendix A, Section 7.

Clause and specific language therein are mandated by 49 CFR Part 19, Appendix A.

Modifications have been made to the Clause pursuant to Section 10 of the Lobbying Disclosure Act of 1995, P.L. 104-65 [to be codified at 2 U.S.C. § 1601, et seq.]

FTA Contract Clauses. 08.15.2013.

3

Updated 09.12.2013 (Added Item 24 ADA)

7. LOBBYING (Continued)

-Lobbying Certification and Disclosure of Lobbying Activities for third party Contractors are mandated by 31 U.S.C. 1352(b)(5), as amended by Section 10 of the Lobbying Disclosure Act of 1995, and DOT implementing regulation, "New Restrictions on Lobbying," at 49 CFR § 20.110(d)

-Language in Lobbying Certification is mandated by 49 CFR Part 19, Appendix A, Section 7, which provides that Contractors file the certification required by 49 CFR Part 20, Appendix A.

Modifications have been made to the Lobbying Certification pursuant to Section 10 of the Lobbying Disclosure Act of 1995.

-Use of "Disclosure of Lobbying Activities," Standard Form-LLL set forth in Appendix B of 49 CFR Part 20, as amended by "Government wide Guidance For New Restrictions on Lobbying," 61 Fed. Reg. 1413 (1/19/96) is mandated by 49 CFR Part 20, Appendix A.

Byrd Anti-Lobbying Amendment, 31 U.S. C. 1352 as amended by the Lobbying Disclosure Act of 1995, P. L. 104-65 [to be codified at 2 U.S.C. §1601, et seq.] Contractors who apply or bid for an award of \$100,000 or more shall file the certification required by 49 CFR part 20, "New Restrictions on Lobbying." Each tier certifies to the tier above that it will not and has not used Federal appropriated funds to pay any person or organization for influencing or attempting to influence an officer or employee of an agency, a member of Congress, officer or employee of Congress, or an employee of a member of Congress in connection with obtaining any Federal contract, grant or any other award covered by 31 U.S.C. 1352. Each tier shall also disclose the name of any registrant under the Lobbying Disclosure Act of 1995 who has made lobbying contacts on behalf with non-Federal funds with respect to that Federal contract, grant or award covered by 31 U.S.C. 1352. Such disclosures are forwarded from tier to tier up to the recipient.

APPENDIX A, 49 CFR PART 20 – CERTIFICATION REGARDING LOBBYING

Certification for Contracts, Grants, Loans and Cooperative Agreements

(To be submitted with each bid or offer exceeding \$100,000)

The undersigned [Contractor] certifies, to the best of his or her knowledge and belief, that:

(1) No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of an agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

(2) If any funds other than Federal appropriated funds have been paid or will be paid to any person for making lobbying contacts to an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form—LLL, "Disclosure Form to Report Lobbying," in accordance with its instructions [as amended by "Government wide Guidance for New Restrictions on Lobbying," 61 Fed. Reg. 1413 (1/19/96)]. Note: Language in paragraph (2)

7. LOBBYING (Continued)

herein has been modified in accordance with Section 10 of the Lobbying Disclosure Act of 1995 (P.L. 104-65, to be codified at 2 U.S.C. 1601, *et seq.*)

(3) The undersigned shall require that the language of this certification be included in the award documents for all subawards at all tiers (including subcontracts, subgrants, and contract under grants, loans, and cooperative agreements) and that all subrecipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is prerequisite for making or entering into this transaction imposed by 31, U.S.C. § 1352 (as amended by the Lobbying Disclosure Act of 1995). Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.

[Note: Pursuant to 31 U.S.C. § 1352(c)(1)-(2)(A), any person who makes a prohibited expenditure or fails to file or amend a required certification or disclosure form shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each expenditure or failure.]

The Contractor, _____, certifies or affirms the truthfulness and accuracy of each statement of its certification and disclosure, if any. In addition, the Contractor understands and agrees that the provisions of 31 U.S.C. A3801, *et seq.*, apply to this certification and disclosure, if any.

Signature of Contractor's Authorized Official

Name and Title of Contractor's Authorized Official

Date

8. ACCESS TO RECORDS AND REPORTS

49 U.S.C. 5325
18 CFR 18.36 (i)
49 CFR 633.17

Applicable to: Contracts as described below

(1) Where the Purchaser is not a State but a local government and is the FTA Recipient or a subgrantee of the FA Recipient in accordance with 49 C.F.R. 18.36(i), The Contractor agrees to provide the Purchaser, the FTA Administrator, the Comptroller General of the United States or any of their authorized representatives access to any books, documents, papers and records of the Contractor which are directly pertinent to this contract for the purposes of making audits, examinations, excerpts and transcriptions. Contractor also agrees, pursuant to 49 C.F.R. 633.17 to provide the FTA Administrator or his authorized representatives including any PMO Contractor access to Contractor's records and construction sites pertaining to a major capital

8. ACCESS TO RECORDS AND REPORTS (Continued)

project, defined at 49 U.S.C. 5302 (a) 1, which is receiving federal financial assistance through the programs described at 49 U.S.C. 5307, 5309, or 5311.

(2) Where the Purchaser is a State and is the FTA Recipient or a subgrantee of the FTA Recipient in accordance with 49 C.F.R. 633.17, Contractor agrees to provide the Purchaser, the FTA Administrator or his authorized representative, including any PMO Contractor, access to the Contractor's records and construction sites pertaining to a major capital project, defined at 49 U.S.C. 5307, 5309 or 5311. By definition, a major capital project excludes contracts of less than the simplified acquisition threshold currently set at \$100,000.

(3) Where the Purchaser enters into a negotiated contract for other than a small purchase or under the simplified acquisition threshold and is an institution of higher education, a hospital or other non-profit organization and is the FTA Recipient or a subgrantee of the FTA Recipient in accordance with 49 C.F. R. 1948, Contractor agrees to provide the Purchaser, FTA Administrator, the Comptroller General of the United States or any of their duly authorized representatives with access to any books, documents, papers and record of the Contractor which are directly pertinent to this contract for the purposes of making audits, examinations, excerpts and transcriptions.

(4) Where any Purchaser which is the FTA Recipient or a subgrantee of the FTA Recipient in accordance with 49 U.S.C. 5325(a) enters into a contract for a capital project or improvement (defined at 49 U.S.C. 5302(a)1) through other than competitive bidding, the Contractor shall make available records related to the contract to the Purchaser, the Secretary of Transportation and the Comptroller General or any authorized officer or employee of any of them for the purposes of conducting an audit and inspection.

(5) The Contractor agrees to permit any of the foregoing parties to reproduce by any means whatsoever or to copy excerpts and transcriptions as reasonably needed.

(6) The Contractor agrees to maintain all books, records, accounts and reports required under this contract for a period of not less than three (3) years after the termination or expiration of this contract, except in the event of litigation or settlement of claims arising from the performance of this contract, in which case Contractor agrees to maintain same until the Purchaser, the FTA Administrator, the Comptroller General, or any of their duly authorized representatives, have disposed of all such litigation, appeals, claims or exceptions related thereto. Reference 49 CFR 18.39(i)(11).

(7) FTA does not require the inclusion of these requirements in subcontracts.

9. FEDERAL CHANGES

49 CFR Part 18

Applicable to: All contracts

The Contractor shall at all times comply with all applicable FTA regulations, policies, procedures and directives, including without limitation those listed directly or by reference in the Master Agreement between the County and FTA, as they may be amended or promulgated from time to time during the term of this contract. Contractor's failure to so comply shall constitute a material breach of this contract.

10. BONDING REQUIREMENTS

For Bonding requirements, refer to Manatee County's bonding requirements for bid guaranty, payment and performance bonds which is made a part of this Invitation for Bid OR Request for Proposal.

11. Clean Air

42 U.S.C. 7401 ET SEQ

40 CFR 15.61

49 CFR Part 18

Applicable to: All contracts exceeding \$100,000

(1) The Contractor agrees to comply with all applicable standards, orders or regulations issued pursuant to the Clean Air Act, as amended, 42 U.S.C. §§ 7401 et seq. The Contractor agrees to report each violation to the County and understands and agrees that the County will, in turn, report each violation as required to assure notification to FTA and the appropriate EPA Regional office.

(2) The Contractor also agrees to include these requirements in each subcontract exceeding \$100,000 financed in whole or in part with Federal assistance provided by FTA.

12. RECYCLED PRODUCTS

42 U.S.C. 7401 ET SEQ

40 CFR 15.61

49 CFR Part 18

Applicable to: The Recycled Products requirements apply to all contracts for items designated by the EPA, when the purchaser or contractor procures \$10,000 or more of these items during the fiscal year, or has procured \$10,000 or more of such items in the previous fiscal year, using Federal funds. These regulations apply to all procurement actions involving items designed by the EPA, where the procuring agency purchases \$10,000 or more of one of these items in a fiscal year, or when the cost of such items purchased during the previous fiscal year was \$10,000.

12. RECYCLED PRODUCTS(Continued)

The Contractor agrees to comply with all requirements of Section 6002 of the Resource Conservation and Recovery ACT (RCRA), as amended (42 U.S.C. 6962) including but not limited to the regulatory provisions of 40 CFR Part 247, and Executive Order 12873, as they apply to the procurement of the items designated in Subpart B of 40 CFR Part 247.

13. DAVIS-BACON AND COPELAND ANTI-KICKBACK ACTS

Applicable to: Construction contracts over \$2000 for Davis-Bacon Act

Applicable to: Construction contractors over \$100,000 for Copeland Anti-Kickback Act

Background and Application

The Davis-Bacon and Copeland Acts are codified at 40 USC 3141, *et seq.* and 18 USC874. The Acts apply to grantee construction contracts and subcontracts that “at least partly are financed by a loan or grant from the Federal Government.” 40 USC 3145(a), 29 CFR 5.2(h), 49 CFR18.36(i)(5). The Acts apply to any construction contract over \$2,000. 40 USC 3142(a), 29 CFR 5.5(a). ‘Construction,’ for purposes of the Acts, includes “actual construction, alteration and /or repair, including painting and decorating.” 29 CFR 5.5 (a). The requirements of both Acts are incorporated into a single clause (*see* 29 CFR 3.11) enumerated at 29 CFR 5.5(a) and reproduced below.

The clause language is drawn directly from 29 CFR 5.5(a) and any deviation from the model clause should be coordinated with counsel to ensure the Acts’ requirements are satisfied.

Clause Language

Davis-Bacon and Copeland Anti-Kickback Acts:

(1) Minimum wages – (i) All laborers and mechanics employed or working upon the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project), will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR part 3), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics.

Contributions made or costs reasonably anticipated for bona fide fringe benefits under section 1(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of paragraph (1) (iv) of this section; also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period. Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR Part 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided that the employer’s payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classifications and wage rates conformed under paragraph (1)(ii) of this section)

13. DAVIS-BACON AND COPELAND ANTI-KICKBACK ACT (Continued)

and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of work in a prominent and accessible place where it can be easily seen by the workers.

(ii)(A) The contracting officer shall require that any class of laborers or mechanics, including helpers, which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(1) Except with respect to helpers as defined as 29 CFR 5.2(n)(4), the work to be performed by the classification requested is not performed by a classification in the wage determination; and

(2) The classification is utilized in the area by the construction industry; and

(3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination; and

(4) With respect to helpers as defined in 29 CFR 5.2(n)(4), such a classification prevails in the area in which the work is performed.

(B) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, DC 20210. The Administration, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(C) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(D) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs (a)(1)(ii) (B) or (C) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

(iii) Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

13. DAVIS-BACON AND COPELAND ANTI-KICKBACK ACT (Continued)

(iv) If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program.

(v)(A) The contracting officer shall require that any class of laborers or mechanics which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. The contracting officer shall approve an additional classification and wage rate and fringe benefits therefore only when the following criteria have been met:

(1) The work to be performed by the classification requested is not performed by a classification in the wage determination; and

(2) The classification is utilized in the area by the construction industry; and

(3) The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

(B) If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and the contracting officer agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by the contracting officer to the Administrator of the Wage and Hour Division, Employment Standards Administration, Washington, DC 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(C) In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and the contracting officer do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), the contracting officer shall refer the questions, including the views of all interested parties and the recommendation of the contracting officer, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise the contracting officer or will notify the contracting officer within the 30-day period that additional time is necessary.

(D) The wage rate (including fringe benefits where appropriate) determined pursuant to paragraphs (a) (1) (v) (B) or (C) of this section, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

(2) Withholding – The County shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the contractor under this contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor, so much of the accrued payments or advances as

13. DAVIS-BACON AND COPELAND ANTI-KICKBACK ACT(Continued)

may be considered necessary to pay laborers and mechanics, including apprentices, trainees, and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee, or helper, employed or working on the site of the work (or under the United States Housing Act of 1937 or under the Housing Act of 1949 in the construction or development of the project), all of part of the wages required by the contract, the County may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased.

(3) Payrolls and basic records – (i) Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work and preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work (or under the United States Housing Act of 1937), or under the Housing Act of 1949, in the construction or development of the project). Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in section 1 (b) (2) (B) of the Davis-Bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5(a) (1) (iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in section 1 (b)(2) (B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits.

Contractors employing apprentices or trainees under approved programs shall maintain written evident of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs.

(ii)(A) The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to the County for the transmission to the Federal Transit Administration. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under section 5.5(a)(3)(i) of Regulations, 29 CFR part 5. This information may be submitted in any form desired. Optional Form WH-347 is available for this purpose and may be purchased from the Superintendent of Documents (Federal Stock Number 029-005-0014-1), U.S. Government Printing Office, Washington, DC 20402. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors.

(B) Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the Contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

(1) That the payroll for the payroll period contains the information required to be maintained under section 5.5(a) (3) (i) of Regulations, 29 CFR part 5 and that such information is correct and complete:

13. DAVIS-BACON AND COPELAND ANTI-KICKBAC ACT (Continued)

(2) That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in Regulations, 29 CFR part 3;

(3) That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(C) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by paragraph (a) (3) (ii) (B) of this section.

(D) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under section 1001 of title 18 and section 231 of title 31 of the United States Code.

(iii) The contractor or subcontractor shall make the records required under (a) (3) (i) of this section available for inspection, copying, or transcription by authorized representatives of the Federal Transit Administration or the Department of Labor and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the Federal agency may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

(4) Apprentices and Trainees – (i) Apprentices – Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Bureau of Apprenticeship and Training, or with a State Apprenticeship Agency recognized by the Bureau, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Bureau of Apprenticeship and Training or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed.

13. DAVIS-BACON AND COPELAND ANTI-KICKBAC ACT (Continued)

Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator of the Wage and Hour Division of the U.S. Department of Labor determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Bureau of Apprenticeship and Training, or a State Apprenticeship Agency recognized by the Bureau, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(ii) Trainees – Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices.

Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the wage rate on the wage determination for the classification of work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage ratio on the wage determination for work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(iii) Equal employment opportunity – The utilization of apprentices, trainees and journeymen under this part shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR part 30.

(5) Compliance with Copeland Act requirements – The contractor shall comply with the requirements of 29 CFR part 3, which are incorporated by reference in this contract.

13. DAVIS-BACON AND COPELAND ANTI-KICKBAC ACT (Continued)\

(6) Subcontracts – The contractor or subcontractor shall insert in any subcontracts the clauses contained in 29 CFR 5.5 (a) (1) through (10) and such other clauses as the Federal Transit Administration may by appropriate instructions require, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in 29 CFR 5.5.

(7) Contract termination: debarment – A breach of the contract clause in 29 CFR 5.5 may be grounds for termination of the contract, and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

(8) Compliance with Davis-Bacon and Related Act requirements – All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR parts 1, 2 and 5 are herein incorporated by reference in this contract.

(9) Disputes concerning labor standards – Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR parts 5, 6 and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and the contracting agency, the U.S. Department of Labor, or the employees or their representatives.

(10) Certification of eligibility – (i) By entering into this contract, the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12 (a) (1).

(ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1).

(iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C 1001.

14. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT

Background and Application

The Contract Work Hours and Safety Standards Act is codified at 40 USC 3701, *et seq.* The Act applies to grantee contracts and subcontracts "financed at least in part by loans or grants from ... the Federal Government." 40 USC 3701 (b) (1) (B) (iii) and (b) (2), 29 CFR 5.2 (h), 49 CFR 18.36 (i) (6). Although the original Act required its application in any construction contract over \$2,000 or non-construction contract to which the Act applied over \$2,500 (and language to that effect is still found in 49 CFR 18.36(i) (6), the Act no longer applies to any "contract in an amount that is not greater than \$100,000." 40 USC 3701 (B) (3) (A) (iii).

14. CONTRACT WORK HOURS AND SAFETY STANDARDS ACT (Continued)

The Act applies to construction contracts and, in very limited circumstances, non-construction projects that employ "laborers or mechanics on a public work." These non-construction applications do not generally apply to transit procurements because transit procurements (to include rail cars and buses) are deemed "commercial items." 40 USC 3707, 41 USC 403 (12). A grantee that contemplates entering into a contract to procure a developmental or unique item should consult counsel to determine if the Act applies to that procurement and that additional language required by 29 CCFR 5.5(c) must be added to the basic clause below. The clause language is drawn directly from 29 CFR 5.5 (b) and any deviation from the model Clause below should be coordinated with counsel to ensure the Act's requirements are satisfied.

(1) Overtime requirements – No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which he or she is employed on such work to work in excess of forty (40) hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

(2) Violation; liability for unpaid wages; liquidated damages – In the event of any violation of the clause set forth in paragraph (1) of this section the contractor and any subcontractor responsible therefore shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph (1) of this section in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty (40) hours without payment of the overtime wages required by the clause set forth in paragraph (1) of this section.

(3) Withhold for unpaid wages and liquidated damages – The County shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any money payable on account of work performed by the contractor or subcontractor under such contract or any other Federal contract with the same prime contractor, or any other federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph (2) of this section.

(4) Subcontracts – The contractor or subcontractor shall insert in any subcontracts the clauses set forth in paragraphs (1) through (4) of this section and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs (1) through (4) of this section.

15. NO GOVERNMENT OBLIGATION TO THIRD PARTIES

Applicable to: All contracts

(1) Manatee County and Contractor acknowledge and agree that, notwithstanding any concurrence by the Federal Government in or approval of the solicitation or award of the underlying contract, absent the express written consent by the Federal Government, the Federal Government is not a party to this contract and shall not be subject to any obligations or liabilities to the County, Contractor, or any other party (whether or not a party to that contract) pertaining to any matter resulting from the underlying contract.

(2) The Contractor agrees to include the above clause in each subcontractor financed in whole or in part with Federal assistance provided by FTA. It is further agreed that the clause shall not be modified, except to identify the subcontractor who will be subject to its provisions.

16. PROGRAM FRAUD AND FALSE OR FRAUDULENT STATEMENTS AND RELATED ACTS

31 U.S.C. 3801 ET SEQ
49 CFR Part 31 18 U.S.C. 1001
49 U.S.C. 5307

Applicable to: All contracts

(1) The Contractor acknowledges that the provisions of the Program Fraud Civil Remedies Act of 1986, as amended, 31 U.S.C. § 3801 et seq. and U.S. DOT regulations, "Program Fraud Civil Remedies," 49 CFR Part 31, apply to its actions pertaining to this Project. Upon execution of the underlying contract, the Contractor certifies or affirms the truthfulness and accuracy of any statement it has made, it makes, it may make, or causes to be made, pertaining to the underlying contract or the FTA assisted project for which this contract work is being performed. In addition to other penalties that may be applicable, the Contractor further acknowledges that if it makes, or causes to be made, a false, fictitious, or fraudulent claim, statement, submission, or certification, the Federal Government reserves the right to impose the penalties of the Program Fraud Civil Remedies Act of 1986 on the Contractor to the extent the Federal Government deems appropriate.

(2) The Contractor also acknowledges that if it makes, or causes to be made, a false, fictitious, or fraudulent claim, statement, submission, or certification to the Federal Government under a contract connected with a project that is financed in whole or in part with Federal assistance originally awarded by FTA under the authority of 49 U.S.C. § 5307, the Government reserves the right to impose the penalties of 18 U.S.C. § 1001 and 49 U.S.C. § 5307 (n)(1) on the Contractor to the extent the Federal Government deems appropriate.

(3) The Contractor agrees to include the above two clauses in each subcontract financed in whole or in part with Federal assistance provided by FTA. It is further agreed that the clauses shall not be modified, except to identify the subcontractor who will be subject to the provisions.

17. TERMINATION

49 U.S.C. Part 18
FTA Circular 4220.1E

Applicable to: All contracts in excess of \$10,000

a. Termination for Convenience (General Provision): Manatee County may terminate this contract, in whole or in part, at any time by written notice to the Contractor when it is in the Government's best interest. The Contractor shall be paid its costs, including contract close-out costs, and profit on work performed up to the time of termination. The Contractor shall promptly submit its termination claim to the County to be paid to the Contractor. If the Contractor has any property in its possession belonging to the County, the Contractor will account for the same, and dispose of it in the manner the County directs.

b. Termination for Default [Breach or Cause] (General Provision): If the Contractor does not deliver supplies in accordance with the contract delivery schedule, or, if the contract is for services, the Contractor fails to perform in the manner called for in the contract, or if the Contractor fails to comply with any other provisions of the contract, the County may terminate this contract for default. Termination shall be effected by serving a notice of termination on the contractor setting forth the manner in which the Contractor is in default. The Contractor will only be paid the contract price for supplies delivered and accepted, or services performed in accordance with the manner of performance set forth in the contract.

If it is later determined by the County that the Contractor had an excusable reason for not performing, such as a strike, fire, or flood, events which are not the fault of or are beyond the control of the Contractor, the County, after setting up a new delivery of performance schedule, may allow the Contractor to continue work, or treat the termination as a termination for convenience.

c. Opportunity to Cure (General Provisions): The County in its sole discretion may, in the case of termination for breach or default, allow the Contractor [an appropriately short period of time] in which to cure the defect. In such case, the notice of termination will state the time period in which cure is permitted and other appropriate conditions.

If Contractor fails to remedy to the County's satisfaction the breach or default of any of the terms, covenants, or conditions of this contract within [ten (10) days] after receipt by Contractor of written notice from the County setting forth the nature of said breach or default, the County shall have the right to terminate the contract without any further obligation to the Contractor. Any such termination for default shall not in any way operate to preclude the County from also pursuing all available remedies against the Contractor and its Sureties for said breach or default.

d. Waiver of Remedies for any Breach: In the event that the County elects to waive its remedies for any breach by Contractor of any covenant, term or condition of this contract, such waiver by the County shall not limit the County's remedies for any succeeding breach of that or any other term, covenant, or condition of this contract.

17. TERMINATION (Continued)

e. Termination for Convenience (Professional or Transit Service Contracts): The County, by written notice, may terminate this contract, in whole or in part, when it is in the Government's interest. If this contract is terminated, the County shall be liable only for payment under the payment provisions of this contract for services rendered before the effective date of termination.

f. Termination for Default (Supplies and Service): If the Contractor fails to deliver supplies or to perform the services within the time specified in this contract or any extension or if the Contractor fails to comply with any other provisions of this contract, the County may terminate this contract for default. The County shall terminate by delivering to the Contractor a Notice of Termination specifying the nature of the default. The Contractor will only be paid the contract price for supplies delivered and accepted, or services performed in accordance with the manner or performance set forth in this contract.

If, after termination for failure to fulfill contract obligations, it is determined that the Contractor was not in default, the rights and obligations of the parties shall be the same as if the termination had been issued for the convenience of the Recipient.

g. Termination for Default (Transportation Services): If the Contractor fails to pick up the commodities or to perform the services, including delivery services, within the time specified in this contract or any extension or if the Contractor fails to comply with any other provisions of this contract, the County may terminate this contract for default. The County shall terminate by delivering to the Contractor a Notice of Termination specifying the nature of default. The Contractor will only be paid the contract price for services performed in accordance with the manner of performance as set forth in this contract.

If this contract is terminated while the Contractor has possession of the County's goods, the Contractor shall, upon direction of the County, protect and preserve the goods until surrendered to the County or its agent. The Contractor and the County shall agree on payment for the preservation and protection of goods. Failure to agree on an amount will be resolved under the Dispute clause.

If, after termination for failure to fulfill contract obligation, it is determined that the Contractor was not in default, the rights and obligations of the parties shall be the same as if the termination had been issued for the convenience of the County.

h. Termination for Default (Construction): If the Contractor refuses or fails to prosecute the work or any separable part, with the diligence that will insure its completion within the time specified in this contract or any extension or fails to complete the work within this time, or if the Contractor fails to comply with any other provisions of this contract, the County may terminate this contract for default. The County shall terminate by delivering to the Contractor a Notice of Termination specifying the nature of the default. In this event, the County may take over the work and complete it by contract or otherwise, and may take possession of and use any materials, appliances, and plant on the work site necessary for the completing the work. The Contractor and its Sureties shall be liable for any damage to the County resulting from the Contractor's refusal or failure to complete the work within specified time, whether or not the Contractor's right to proceed with the work is terminated. This liability includes any increased costs incurred by the County in completing the work.

The Contractor's right to proceed shall not be terminated nor the Contractor charged with damages under this clause if:

17. TERMINATION (Continued)

1. the delay in completing the work arises from unforeseeable causes beyond the control and without the fault or negligence of the Contractor. Examples of such causes include: acts of God, acts of the County, acts of another Contractor in the performance of a contract with the County, epidemics, quarantine restrictions, strikes, freight embargoes; and

2. the contractor, with ten (10) days from the beginning of any delay, notifies the County in writing of the causes of delay. If in the judgment of the County, the delay is excusable, the time for completing the work shall be extended. The judgment of the County shall be final and conclusive on the parties, but subject to appeal under the Dispute clauses.

If, after termination of the Contractor's right to proceed, it is determined that the Contractor was not in default, or that the delay was excusable, the rights and obligations of the parties will be the same as if the termination had been issued for the convenience of the County.

i. Termination for Convenience or Default (Architect and Engineering): The County may terminate this contract in whole or in part, for the County's convenience or because of the failure of the Contractor to fulfill the contract obligations. The County shall terminate by delivering to the Contractor a Notice of Termination specifying the nature, extent, and effective date of the termination. Upon receipt of the notice, the Contractor shall (1) immediately discontinue all services affected (unless the notice directs otherwise), and (2) deliver to the Contracting Officer all data, drawings, specifications, reports, estimates, summaries, and other information and materials accumulated in performing this contract, whether completed or in process.

If the termination is for the convenience of the County, the Contracting Officer shall make an equitable adjustment in the contract price but shall allow no anticipated profit on unperformed services.

If the termination is for failure of the Contractor to fulfill the contract obligations, the County may complete the work by contract or otherwise and the Contractor shall be liable for any additional cost incurred by the County.

If, after termination for failure to fulfill contract obligations, it is determined that the Contractor was not in default, the rights and obligations of the parties shall be the same as if the termination had been issued for the convenience of the County.

j. Termination for Convenience or Default (Cost-Type Contracts): The County may terminate this contract, or any portion of it, by serving a notice of termination on the Contractor. The notice shall state whether the termination is for convenience of the County or for the default of the Contractor. If the termination is for default, the notice shall state the manner in which the contractor has failed to perform the requirements of the contract. The Contractor shall account for any property in its possession paid for from funds received from the County, or property supplied to the Contractor by the County. If the termination is for default, the County may fix the fee, if the contract provides for fees, to be paid the Contractor in proportion to the value, if any, of work performed up to the time of termination.

17. TERMINATION (Continued)

i. Termination for Convenience of Default (Cost-Type Contracts): Continued

The Contractor shall promptly submit its termination claim to the County and the parties shall negotiate the termination settlement to be paid the Contractor.

If the termination is for convenience of the County, the Contractor shall be paid its contract close-out costs, and a fee, if the contract provided for payment of a fee, in proportion to the work performed up to the time of termination.

If, after serving a notice of termination for default, the County determines that the Contractor has an excusable reason for not performing, such as strike, fire, flood, events which are not the fault of and are beyond the control of the Contractor, the County, after setting up a new work schedule, may allow the Contractor to continue work, or treat the termination as a termination for convenience.

18. GOVERNMENT-WIDE DEBARMENT AND SUSPENSION (NONPROCUREMENT)

49 CFR Part 29

Executive Order 12459

Applicable to: All contracts and subcontracts which exceed \$25,000

This contract is a covered transaction for purposes of 49 CFR Part 29. As such, the Contractor is required to verify that none of the Contractor, its principals, as defined at 49 CFR 29.995, or affiliates, as defined at 49 CFR 29.905, are excluded or disqualified as defined at 49 CFR 29.940 and 29.945.

The Contractor is required to comply with 49 CFR 29, Subpart C and must include the requirement to comply with 49 CFR, Subpart C in any lower tier covered transaction it enters into. By signing and submitting its bid or proposal, the bidder or proposer certifies as follows:

The certification in this clause is a material representation of fact relied upon by the County. If it is later determined that the bidder or proposer knowingly rendered an erroneous certification, in addition to remedies available to the County, the Federal Government may pursue available remedies, including but not limited to suspension and /or debarment. The bidder or proposer agrees to comply with the requirements of 49 CFR 29, Subpart C while this offer is valid and throughout the period of any contract that may arise from this offer. The bidder or proposer further agrees to include a provision requiring such compliance in its lower tier covered transactions.

19. **PRIVACY ACT**
5 U.S.C. 552

Applicable to: All contracts

Contracts Involving Federal Privacy Act Requirements: The following requirements apply to the Contractor and its employees that administer any system of records on behalf of the Federal Government under any contract:

(1) The Contractor agrees to comply with, and assures the compliance of its employees with, the information restrictions and other applicable requirements of the Privacy Act of 1974, 5U.S.C. § 552a. Among other things, the Contractor agrees to obtain the express consent of the Federal Government before the Contractor or its employees operate a system of records on behalf of the Federal Government. The Contractor understands that the requirements of the Privacy Act, including the civil and criminal penalties for violation of that Act, apply to those individuals involved, and that failure to comply with the terms of the Privacy Act may result in termination of the underlying contract.

(2) The Contractor also agrees to include these requirements in each subcontract or administer any system of records on behalf of the Federal Government financed in whole or in part with Federal assistance provided by FTA.

20. **CIVIL RIGHTS REQUIREMENTS**

29 U.S.C. § 623, 42 U.S.C. § 2000
42 U.S.C. § 6102, 42 U.S.C. § 12112
42U.S.C. § 12132, 49 U.S.C. § 5332
29 CFR Part 1630, 41 CFR Parts 60 et seq.

Applicable to: All contracts

(1) Nondiscrimination: In accordance with Title VI of the Civil Rights Act, as amended, 42 U.S.C. § 2000d, section 303 of the Age Discrimination Act of 1975, as amended, 42 U.S.C. § 6102, section 202 of the Americans with Disabilities Act of 1990, 42 U.S.C. § 12132, and Federal transit law at 49 U.S.C. § 5332, the Contractor agrees that it will not discriminate against any employee or applicant for employment because of race, color, creed, national origin, sex, age, or disability. In addition, the Contractor agrees to comply with applicable Federal implementing regulations and other implementing requirements FTA may issue.

(2) Equal Employment Opportunity: The following equal employment opportunity requirements apply to the underlying contract:

20. CIVIL RIGHTS REQUIREMENTS (Continued)

(2) Equal Employment Opportunity: (Continued)

(a) Race, Color, Creed, National Origin, Sex: In accordance with Title VII of the Civil Rights Act, as amended, 42 U.S.C. § 2000e, and Federal transit laws at 49 U.S.C. § 5332, the Contractor agrees to comply with all applicable equal employment opportunity requirements of U.S. Department of Labor (U.S. DOL) regulations "Office of Federal Contract Compliance Programs, Equal Employment Opportunity, Department of Labor," 41 C.F. R. Part 60 et seq., (which implement Executive Order No. 11246, "Equal Employment Opportunity," as amended by Executive Order No. 11375, "Amending Executive Order 11246 Relating to Equal Employment Opportunity," 42 U.S.C. § 2000e note), and with any applicable Federal statutes, executive orders, regulations, and Federal policies that may in the future affect construction activities undertaken in the course of the Project. The Contractor agrees to take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, creed, national origin, sex, or age. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer, recruitment or recruitment advertising, layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.

(b) Age: In accordance with section 4 of the Age Discrimination in Employment Act of 1967, as amended, 29 U.S.C. § § 623 and Federal Transit law at 49 U.S.C § 5332, the Contractor agrees to refrain from discrimination against present and prospective employees for reason of age. In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.

(c) Disabilities: In accordance with section 102 of the Americans with Disabilities Act, as amended, 42 U.S.C. § 12112, the Contractor agrees that it will comply with the requirements of U.S. Equal Employment Opportunity Commission, "Regulations to Implement the Equal Employment Provisions of the Americans with Disabilities Act," 29 C.F.R. Part 1630, pertaining to employment of persons with disabilities. In addition, the Contractor agrees to comply with any implementing requirements FTA may issue.

(3) The Contractor also agrees to include these requirements in each subcontract financed in whole or in part with Federal assistance provided by FTA, modified only if necessary to identify the affected parties.

21. BREACHES AND DISPUTE RESOLUTION

49 CFR Part 18

FTA Circular 4220.1E

Applicable to: All contracts in excess of \$100,000

Breaches and Dispute Resolution are in accordance with Manatee County Code of Law, Chapter 2-26, Manatee County Purchasing Ordinance.

22. DISADVANTAGED BUSINESS ENTERPRISE (DBE)

49 CFR Part 26

Applicable to: All contracts

(a) This contract is subject to the requirements of Title 49, Code of Federal Regulations, Part 26, Participation by Disadvantaged Business Enterprises in Department of Transportation Financial Assistance Programs. The national goal for participation of Disadvantaged Business Enterprises is 10%. Manatee County's overall goal for DEB participation is 2%.

If a specific DBE goal is assigned to this contract, it will be clearly stated in the bid documents.

(b) The Contractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this contract. The Contractor shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of this DOT assisted contract. Failure by the Contractor to carry out these requirements is a material breach of this contract, which may result in the termination of this contract or other such remedy as the County may deem appropriate. Each subcontract the Contractor signs with a subcontractor must include the assurance in this paragraph (see 49 CFR 26.13 (b)).

(c) **If a separate contract goal has been established**, the Bidders / Offerors are required to document sufficient DBE participation to meet these goals or, alternatively, document adequate good faith efforts to do so, as provided for in 49 CFR 26.53. Award of this contract is conditioned on submission of the following **[concurrent with and accompanying sealed bid] [concurrent with and accompanying an initial proposal] [prior to award]**:

1. The names and addresses of DBE firms that will participate in the contract;
2. A description of the work each DBE will perform;
3. The dollar amount of the participation of each DBE firm participating;
4. Written documentation of the bidder/offeror's commitment to use a DBE subcontractor whose participation it submits to meet the contract goal;
5. Written confirmation from the DBE that it is participating in the contract as provided in the prime contractor's commitment; and
6. If the contract goal is not met, evident of good faith efforts to do so.

[Bidders] [Offerors] must present the information above **[as a matter of responsiveness] with initial proposals [prior to contract award]** (see 49 CFR 26.53 (3)).

If NO separate contract goal has been established, the successful bidder/offeror will be required to report its DBE participation obtained through race-neutral means throughout the period of performance.

22. DISADVANTAGED BUSINESS ENTERPRISE (DBE) (Continued)

(d) The Contractor agrees to pay each subcontractor under this prime contract for satisfactory performance of its contractor no later than 10 days from the receipt of each payment the Contractor receives from the County. The Contractor agrees further to return retainage payments (if any) to each subcontractor within 30 calendar days after the subcontractor(s)' work is satisfactory completed. Any delay or postponement of payment from the above referenced time frame may occur only for good cause following written approval by the County. This clause applies to both DBE and non-DBE subcontractors. The Contractor and its subcontractors shall further comply with Section 218.735 of the Florida Prompt Payment Statute to the extent applicable.

(e) The Contractor must promptly notify the County whenever a DBE subcontractor performing work related to this contract is terminated or fails to complete its work, and must make good faith efforts engage another DBE subcontractor to perform at least the same amount of work. The Contractor may not terminate any DBE subcontractor and perform that work through its own forces or those of an affiliate without prior written consent of the County.

23. INCORPORATION OF FEDERAL TRANSIT ADMINISTRATION (FTA TERMS)

FTA Circular 4220.1E

Applicable to: All contracts

Incorporation of Federal Transit Administration (FTA) Terms: The preceding provisions include, in part, certain Standard Terms and Conditions required by DOT, whether or not expressly set forth in the preceding contract provisions. All contractual provisions required by DOT, as set forth in FTA Circular 4220.1E, are hereby incorporated by reference. Anything to the contrary herein notwithstanding, all FTA mandated terms shall be deemed to control in the event of conflict or other provisions contained in this Agreement. The Contractor shall not perform any act, fail to perform any act, or refuse to comply with any County requests which would cause the County to be in violation of the FTA terms and conditions.

Notification of Federal Participation: In the announcement of any third party contract award for goods or services (including construction services) having an aggregate value of \$500,000 or more, the Contractor agrees to specify the amount of Federal assistance to be used in financing that acquisition of goods and services and to express the amount of that Federal assistance as a percentage of the total cost of that third party contract.

24. ADA ACCESS

49 U.S.C. § 5301(d)

Applicable to: Contracts for Rolling Stock or Facilities Construction / Renovation

The Recipient agrees to comply with 49 U.S.C. §5301(d), which states the Federal policy that elderly individuals and individuals with disabilities have the same right as other individuals to use public transportation services and facilities, and that special effort shall be made in planning and designing those services and facilitates to implement transportation accessibility rights for elderly individuals and individuals with disabilities.

24. ADA ACCESS (Continued)

The Receipt also agrees to comply with all applicable provisions of section 504 of the Rehabilitation Act of 1973, as amended, with 29 U.S. C. § 794, which prohibits discrimination on the basis of disability; with the Americans with Disabilities Act of 1990 (ADA), as amended, 42 U.S. C. § § 12101 et seq., which requires that accessible facilities and services be made available to individuals with disabilities; and with the Architectural Barriers Act of 1968, as amended, 42 U.S. C. § § 4151 et seq., which requires that buildings and public accommodations be accessible to individuals with disabilities. In addition, the Recipient agrees to comply with applicable Federal regulations and directives and any subsequent amendments thereto, except to the extent the Federal Government determines otherwise in writing as follows:

(1) U.S. DOT regulations, "Transportation Services for Individuals with Disabilities (ADA)," 49 C.F.R. Part 37;

(2) U.S. DOT regulations, "Nondiscrimination on the Basis of Handicap in Programs and Activities Receiving or Benefiting from Federal Financial Assistance," 49 C.F.R. Part 27;

(3) Joint U.S. Architectural and Transportation Barriers Compliance Board (U.S. ATBCB)/U.S. DOT regulations, "Americans with Disabilities (ADA) Accessibility Specifications for Transportation Vehicles," 36 C.F.R. Part 1192 and 49.C.F.R. Part 38;

(4) U.S. DOJ regulations, "Nondiscrimination on the Basis of Disability in State and Local Government Services," 28 C.F. R. Part 35;

(5) U.S. DOJ regulations, "Nondiscrimination on the Basis of Disability b Public Accommodations and in Commercial Facilities," 28 C.F.R. Part 36;

(6) U.S. General Services Administration (U.S. GSA) regulations, "Accommodations for the Physically Handicapped," 41 C.F. R. Subpart 101-19;

(7) U.S. Equal Employment Opportunity Commission, "Regulations to Implement the Equal Employment Provisions of the Americans with Disabilities Act," 29 C.F. R. Part 1630;

(8) U.S. Federal Communications Commission regulations, "Telecommunications Relay Services and Related Customer Premises Equipment for the Hearing and Speech Disabled," 47 C.F. R. Part 64, Subpart F; and

(9) U.S. ATBCB regulations, "Electronic and Information Technology Accessibility Standards," 36 C.F. R. Part 1194;

(10) FTA regulations, "Transportation for Elderly and Handicapped Persons," 49 C.F. R. Part 609; and

(11) Federal Civil Rights and Nondiscrimination Directives implementing the foregoing regulations.



MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT

ADA BOARDING PADS BASE BID DRAWINGS

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Richard S. Bacon
7/26/13

RICHARD S. BACON, AIA
AR #0011946

COVER
ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
BRADENTON, FLORIDA 34208

REVISIONS	
1	
2	
3	

DRAWN BY:
JRB

PRINTED DATE:
Jul 26, 2013

SHEET NO:
COVER

PROJECT ID:
BG13-07

CULVERT NOTES:

NEW CULVERT TO BE 30" DIAMETER R.C.P.,
ASTM C-76 CLASS III WALL B. R.C.P. LENGTH
TO BE APPROX. 36' INCLUDING MITERED ENDS.
PROVIDE MITERED END SECTIONS, SLOPE
PAYEMENT, PIPE GRATES, ETC. ALL IN
CONFORMANCE WITH FDOT STD. INDEX
DRAWING 273. SLOPE TO BE 4:1. SOLID
SOD ALL NEW SLOPES AND EXPOSED
DITCH BOTTOM. SLOPE BOTTOM OF NEW
CULVERT TO MATCH EXISTING DRAINAGE
DITCH SLOPE. - FIELD VERIFY


SLAB NOTES:

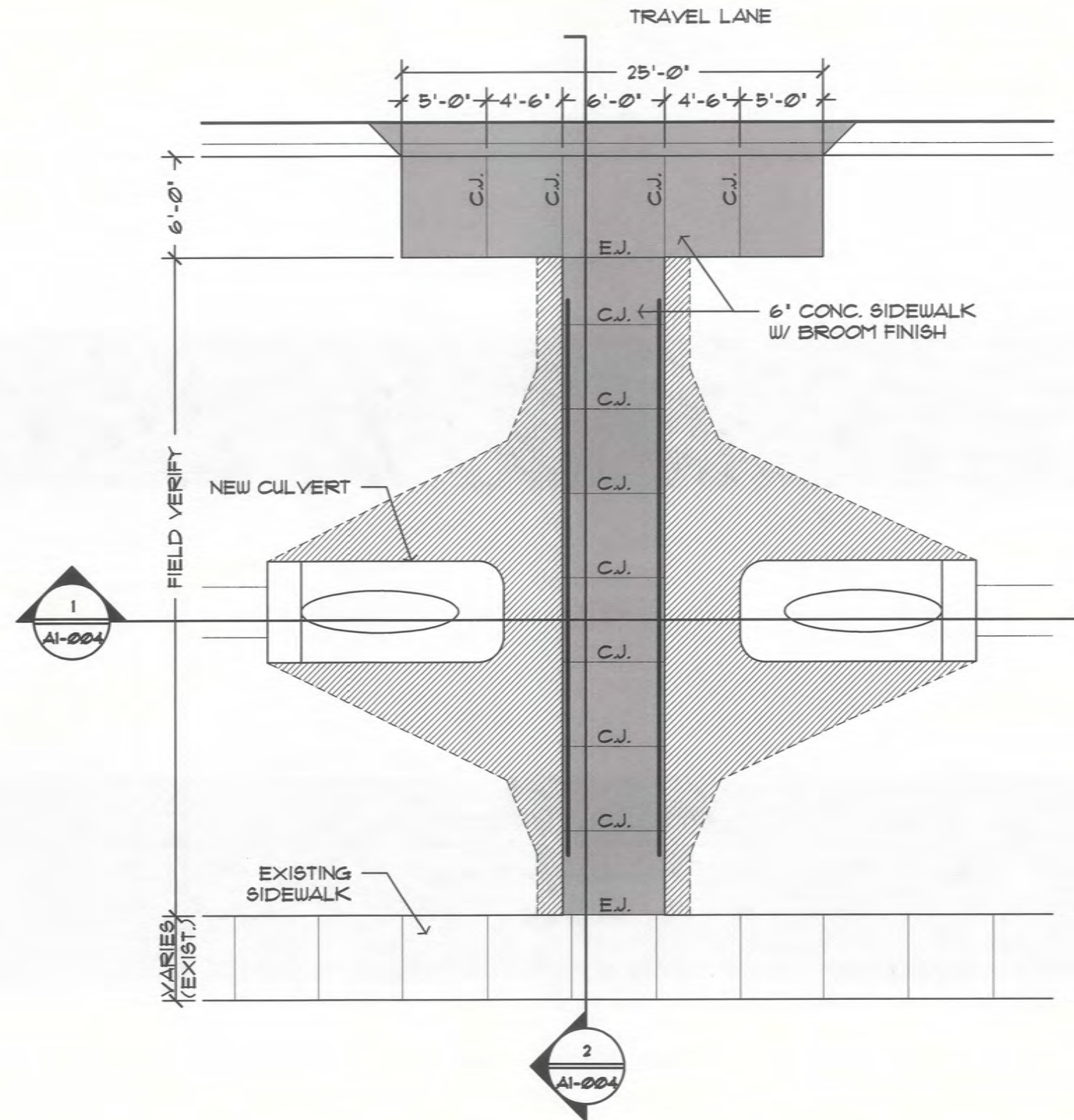
JOINTS @ 5'-0" O.C. 3/4" DEEP.
EXPANSION JOINTS AS SHOWN ON PLANS.
SIDEWALK TO HAVE 1:50 CROSS SLOPE
& TO HAVE BROOM FINISH.

NOTE:

GRADES FROM EXISTING SIDEWALK TO SIDEWALK
MUST BE FIELD VERIFIED.

LEGEND:

 EXTENTS OF NEW SLAB
(EXISTING CONDITIONS MAY VARY
AND SHALL BE FIELD VERIFIED.)



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



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[Signature]
5/2/13

RICHARD S. BACON, AIA
AR #0011946

CONDITION 1 SITE PLAN

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
BRADENTON, FLORIDA 34208

REVISIONS

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DESIGNED BY
JRB

PRINTED DATE

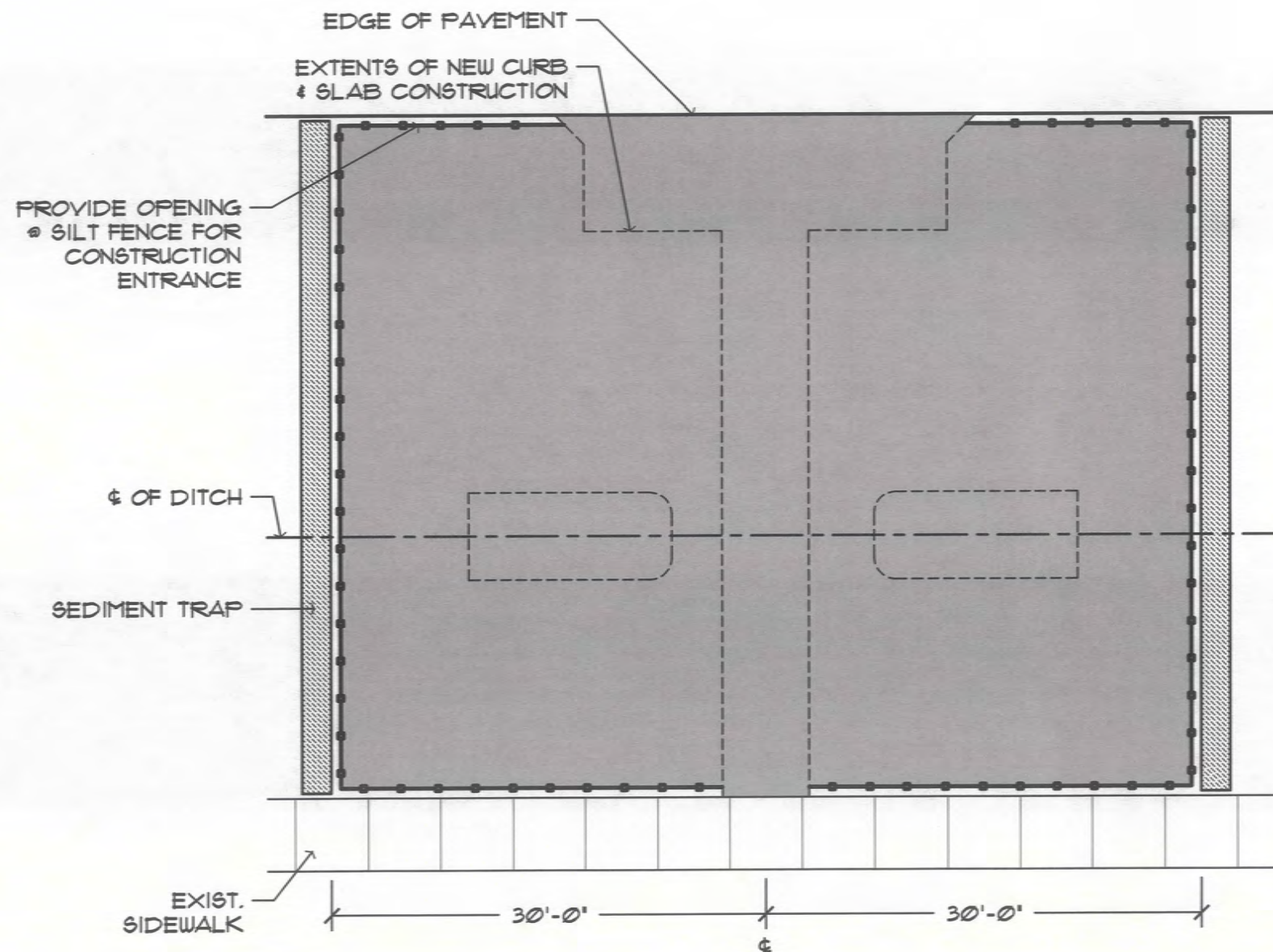
May 16, 2013

SHEET NO.

A1 - 001

PROJECT NO.

BG13-07



LEGEND

- SILT FENCE
- STANDARD STRAW BALES
- AREA TO BE IMPACTED BY CONSTRUCTION

1 EROSION CONTROL PLAN SCALE: 3/32"=1'-0"



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Richard S. Bacon
10/13

RICHARD S. BACON, AIA
AR #0011946

CONDITION 1 EROSION CONTROL PLAN

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
BRADENTON, FLORIDA 34208

REVISIONS

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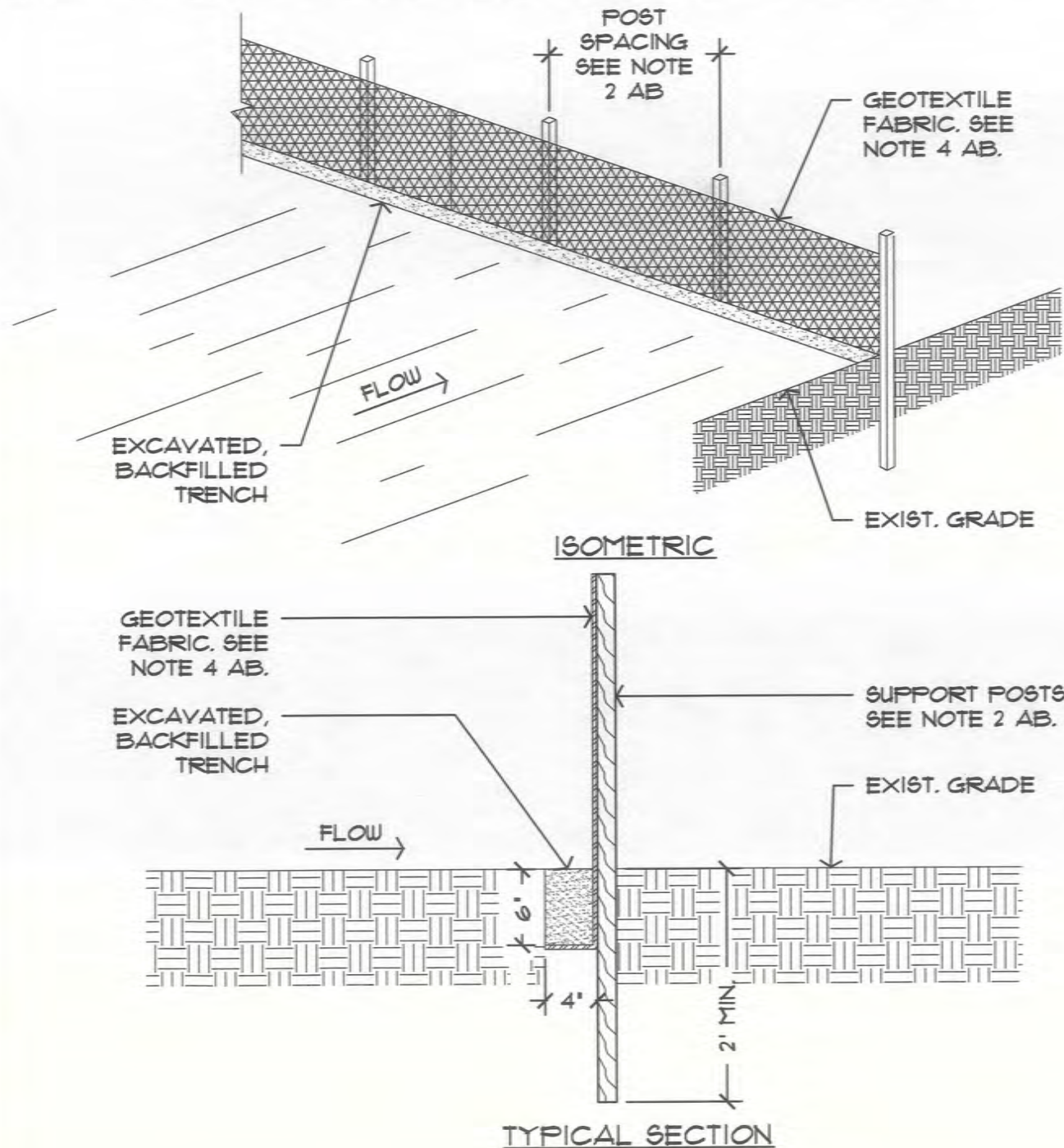
PRINTED DATE:
May 16, 2013

SHEET ID:
A1 - 002

PROJECT ID:
BG13-07

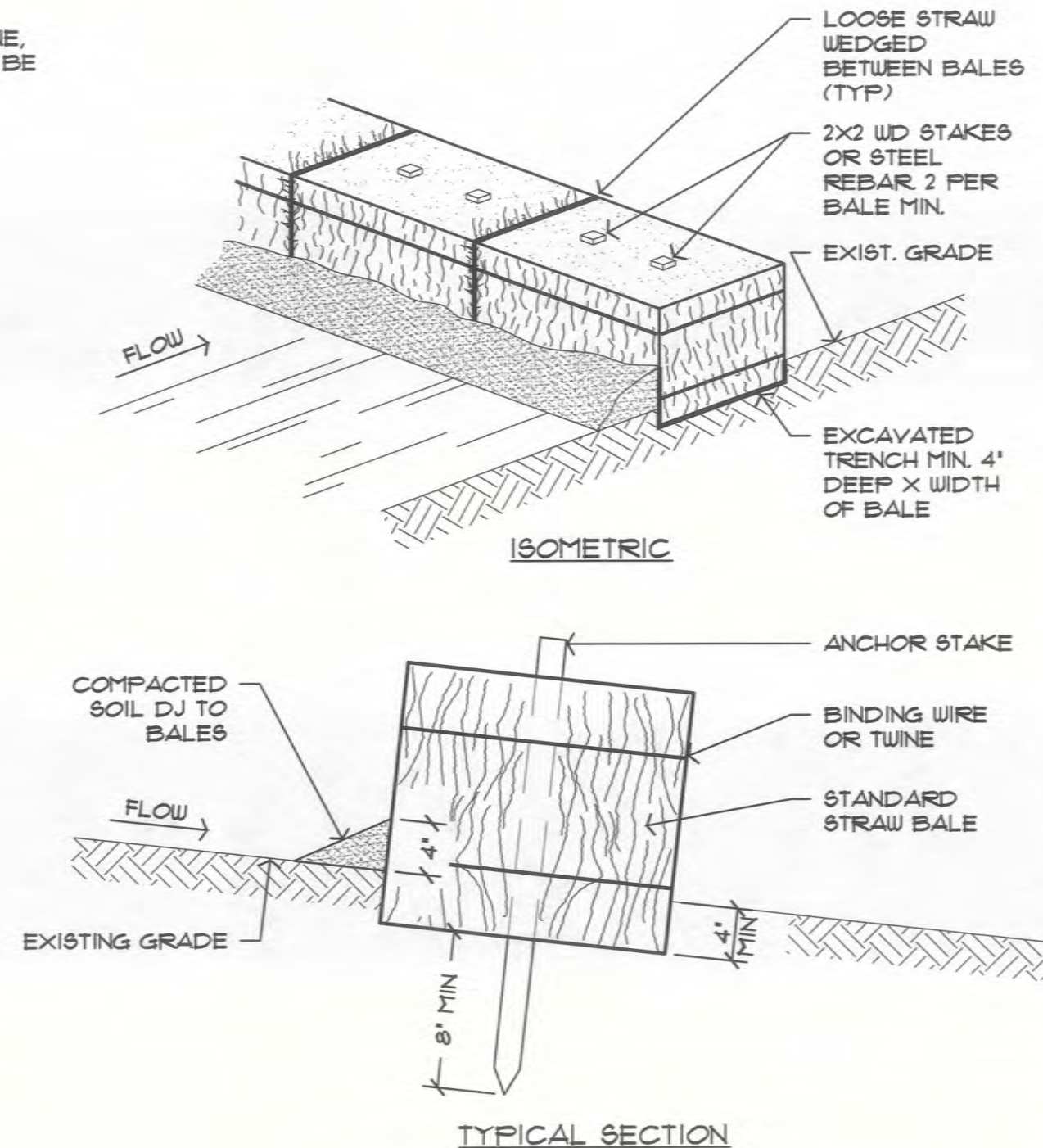
NOTES:

1. GEOTEXTILE FABRIC SHALL BE PLACED IN EXCAVATED TRENCH, BACKFILLED, & COMPACTED TO EXIST. GRADE.
2. WOODEN SUPPORT POSTS SHALL BE P.T. 1 1/8" X 1 1/8" X 4'-0". STEEL POSTS SHALL BE 5'-0" STUDDED 'TEE' OR 'U' TYPE. POSTS SHALL BE 8'-0" O.C. IF WOVEN FABRIC & 3'-0" FOR NON-WOVEN FABRIC.
3. FABRIC FENCE SHALL BE ATTACHED DIRECTLY TO UP-SLOPE SIDE OF POSTS.
4. FOR WD. POSTS, ATTACH FABRIC W/ 1/2" STAPLES @ TOP, MIDDLE & 2' AB. GRADE. FOR STEEL POSTS, ATTACH FABRIC W/ WIRE FASTENERS OR 50 LB PLASTIC TIE STRAPS.
5. GEOTEXTILE FABRIC SHALL CONSIST OF WOVEN OR NON-WOVEN POLYESTER, POLYPROPYLENE, STABILIZED NYLON, POLYETHYLENE, OR POLYVINYLIDENE CHLORIDE. NON-WOVEN FABRIC MAY BE NEEDLE PUNCHED, HEAT BOUNDED, RESIN BONDED, OR COMBINATIONS THEREOF.



NOTES:

1. TURN STRAW BALE ENDS UP 1'-0" MIN. UP-SLOPE AVERT.
2. STRAW BALES SHALL BUTT TOGETHER AS CLOSE AS POSSIBLE
3. AFTER INSTALLATION OF FIRST BALE, THE FIRST STAKE OF THE NEXT BALE SHALL BE DRIVEN TOWARDS THE PREVIOUS BALE (TYPICAL FOR REMAINDER OF BALES)



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AR #0011946

CONDITION 1 TYPICAL EROSION CONTROL
DETAILS

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
BRADENTON, FLORIDA 34208

REVISIONS

1	
2	
3	

DRAWN BY:

JRB

PRINTED DATE:

May 16, 2013

SHEET ID:

A1 - 003

PROJECT ID:

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CONDITION 1 SECTION

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
BRADENTON, FLORIDA 34208

REVISIONS



DRAWN BY:

JRB

PRINTED DATE:

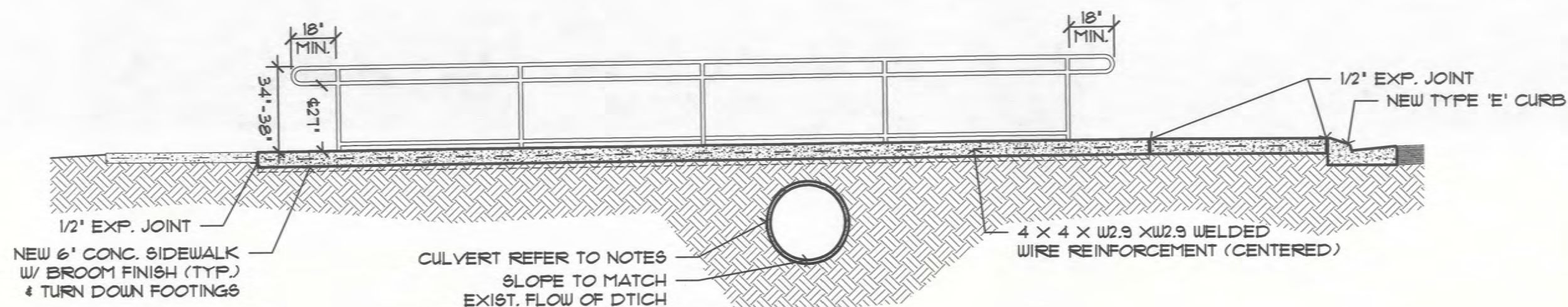
May 16, 2013

SHEET ID:

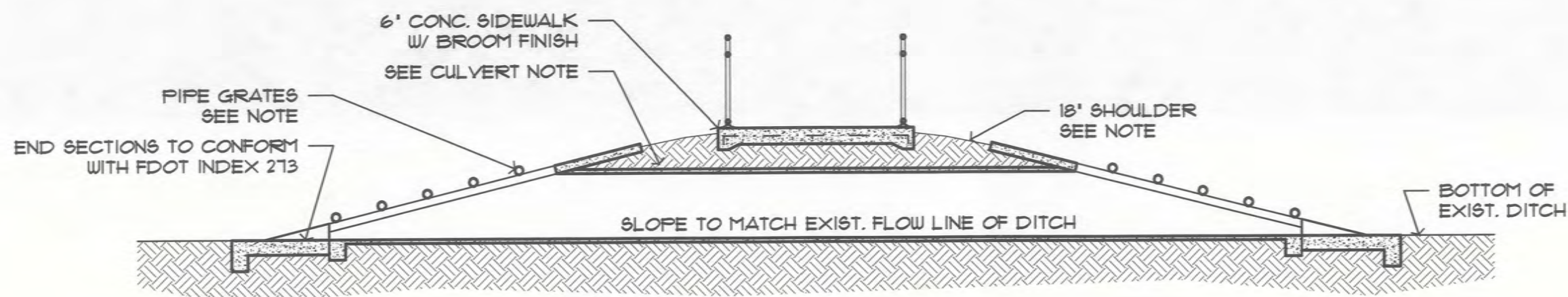
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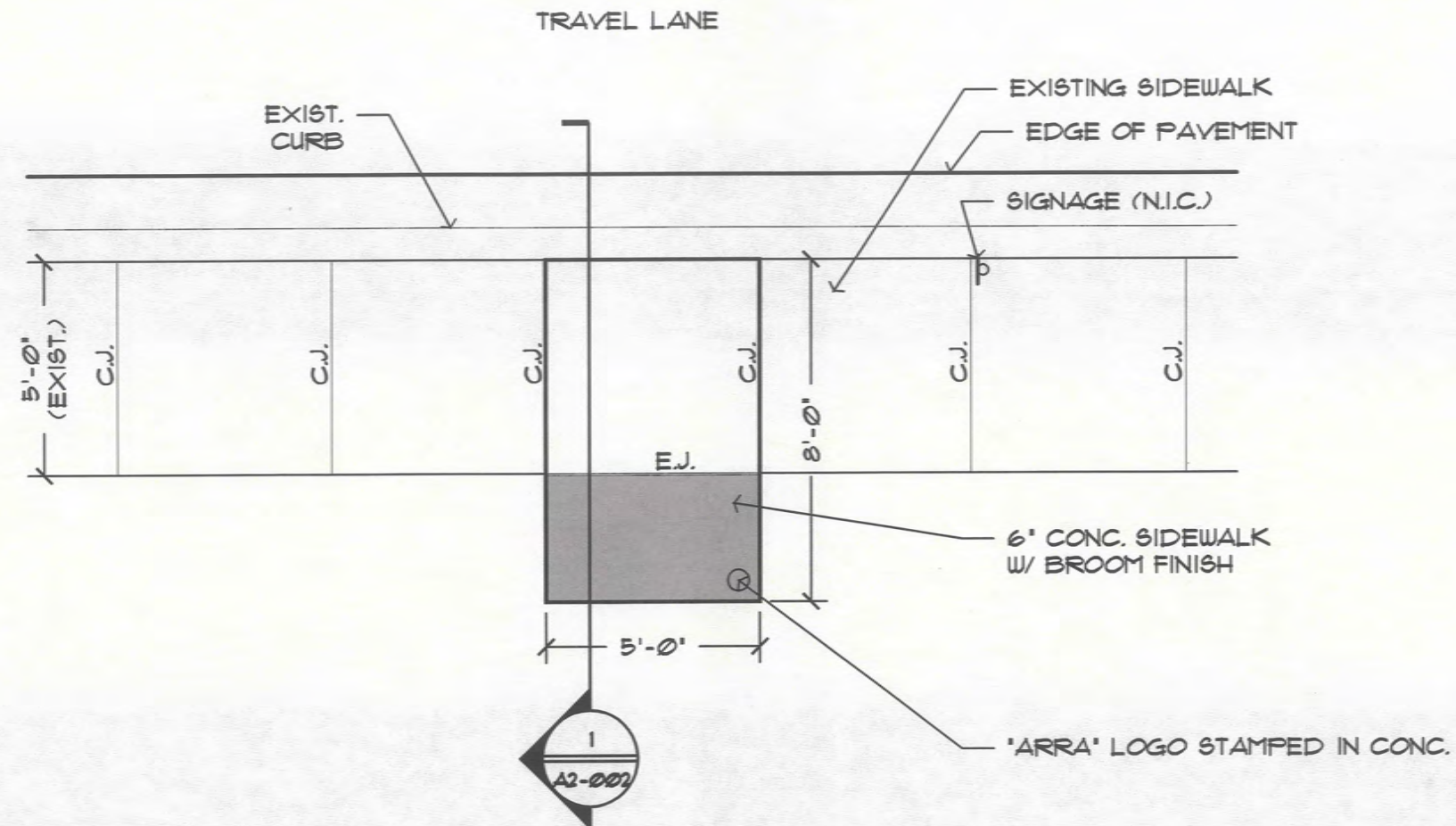
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
2 SECTION
SCALE: 1/4" = 1'-0"



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



SLAB NOTES:
 JOINTS @ 5'-0" O.C. 3/4" DEEP.
 EXPANSION JOINTS AS SHOWN ON PLANS.
 SIDEWALK TO HAVE 1:50 CROSS SLOPE
 & TO HAVE BROOM FINISH.
LEGEND:

 EXTENTS OF NEW SLAB
 (EXISTING CONDITIONS MAY VARY
 AND SHALL BE FIELD VERIFIED.)

1 **SITE PLAN**
 SCALE: 1/4"=1'-0"



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Richard S. Bacon
 RICHARD S. BACON, AIA
 AR #0011946

CONDITION 2 SITE PLAN

ADA BOARDING PAD PROJECT
 MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
 1108 26th AVENUE EAST
 BRADENTON, FLORIDA 34208

REVISIONS	
1	
2	
3	
DRAWN BY: JRB	
PRINTED DATE: Jul 18, 2013	
SHEET ID: A2 - 001	
PROJECT ID: BG13-07	



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Richard S. Bacon
5/20/13

RICHARD S. BACON, AIA
AR #0011946

CONDITION 2 SECTIONS

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 24th AVENUE EAST
BRADENTON, FLORIDA 34208

REVISIONS

1
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DESIGNED BY

JRB

PRINTED DATE

May 16, 2013

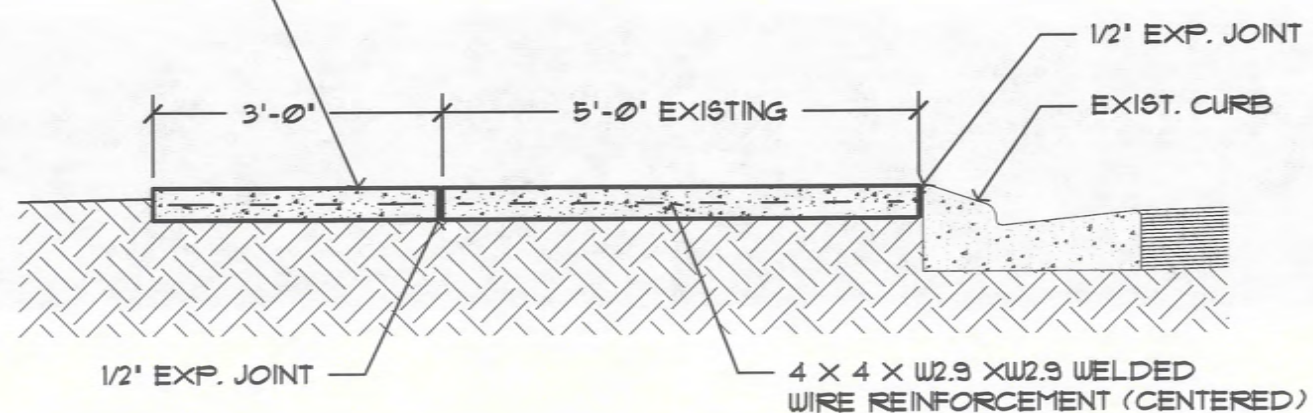
SHEET ID:

A2 - 002

PROJECT ID:

BG13-07

6' CONC. SIDEWALK
W/ BROOM FINISH



1

SECTION

SCALE: 1/2" = 1'-0"



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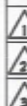


RICHARD S. BACON, AIA
AR #0011946

CONDITION 3 SITE PLAN

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
BRADENTON, FLORIDA 34208

REVISIONS



DESIGNED BY:
JRB

PRINTED DATE:

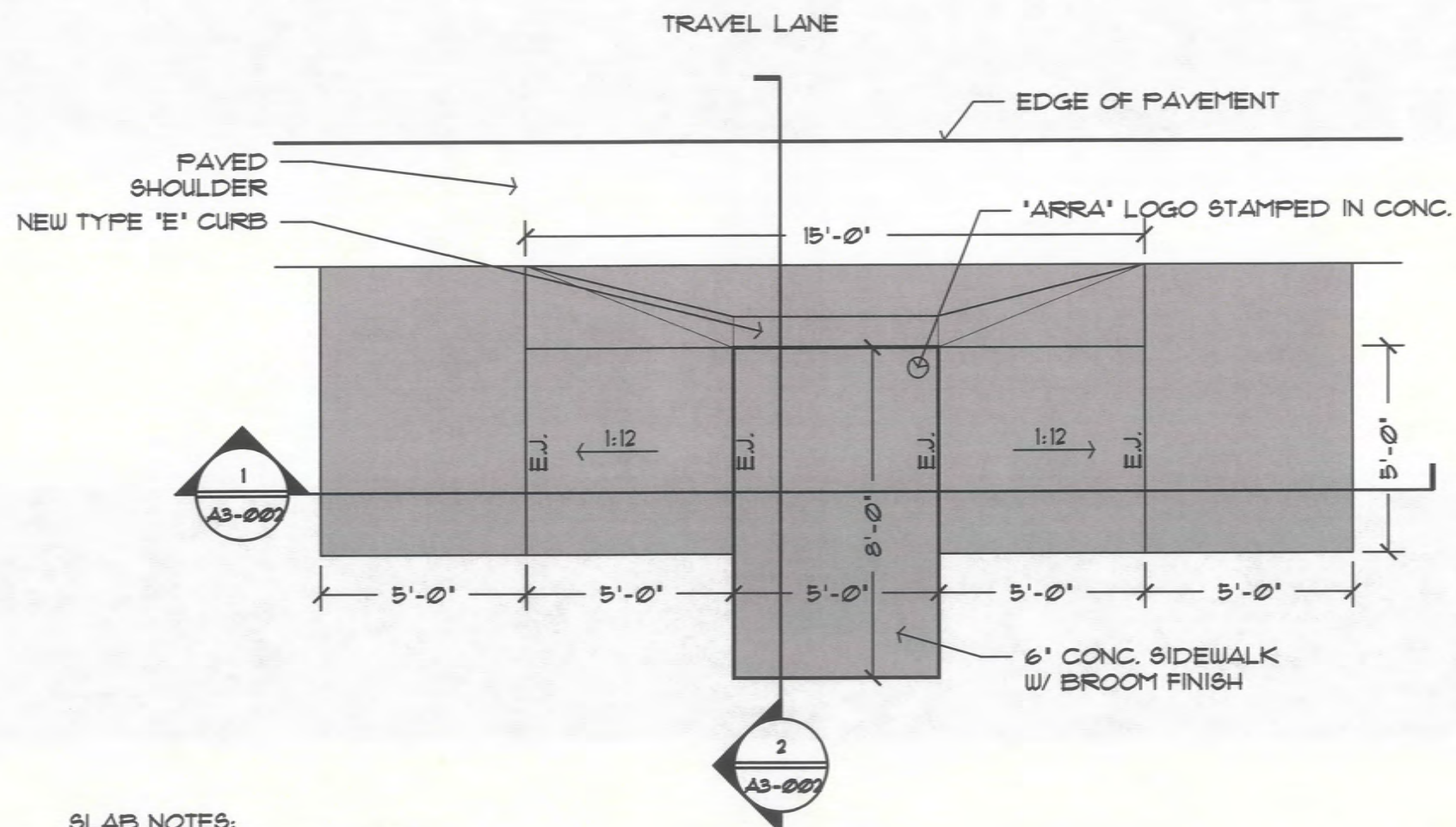
May 16, 2013

SHEET ID:

A3 - 001

PROJECT ID:

BG13-07

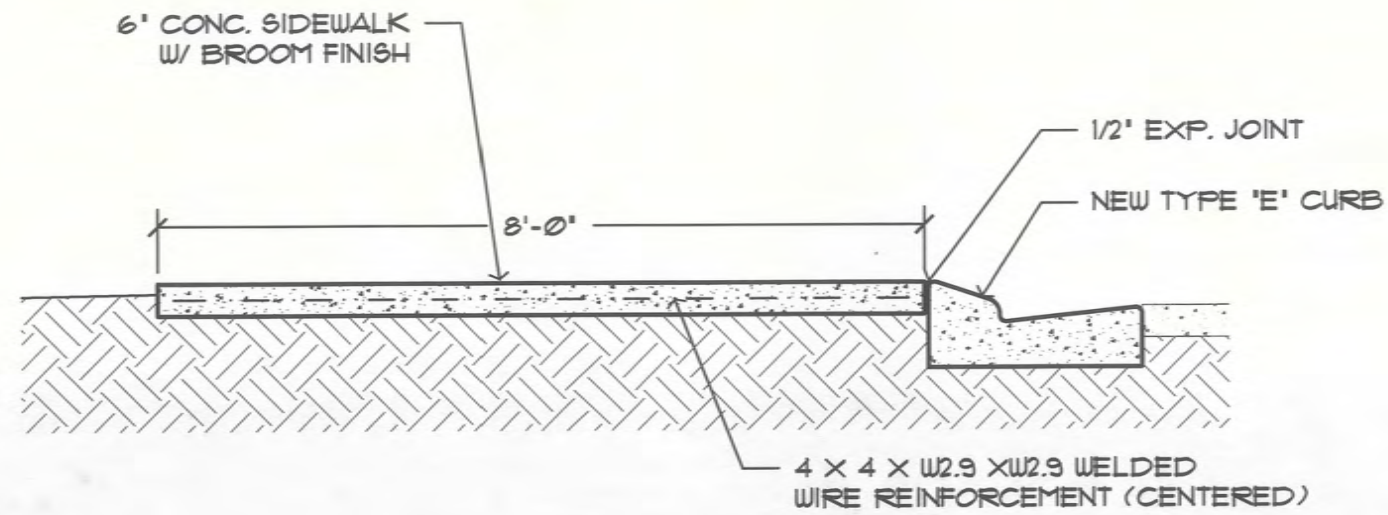


SLAB NOTES:
JOINTS @ 5'-0" O.C. 3/4" DEEP.
EXPANSION JOINTS AS SHOWN ON PLANS.
SIDEWALK TO HAVE 1:50 CROSS SLOPE
& TO HAVE BROOM FINISH.
LEGEND:

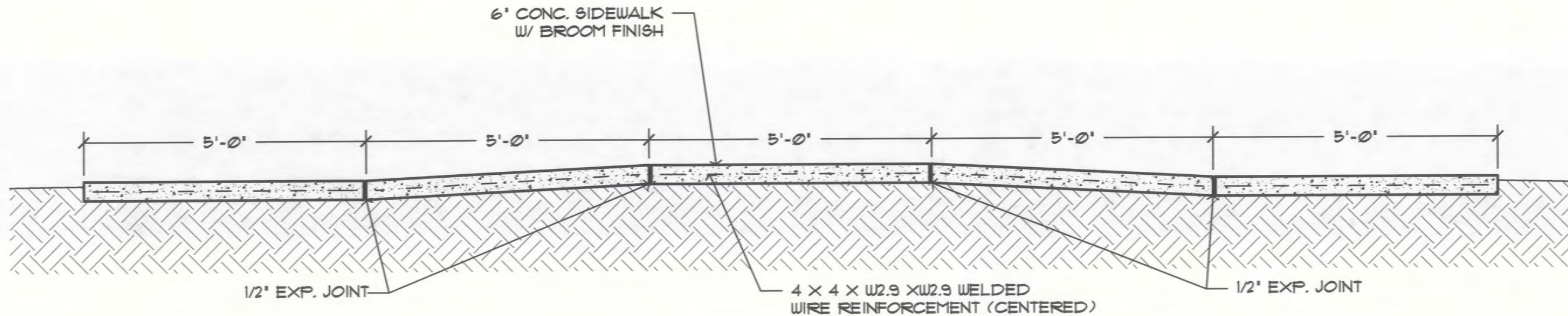


EXTENTS OF NEW SLAB
(EXISTING CONDITIONS MAY VARY
AND SHALL BE FIELD VERIFIED.)

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



2 SECTION
SCALE: 1/2" = 1'-0"



1 SECTION
SCALE: 1/2" = 1'-0"



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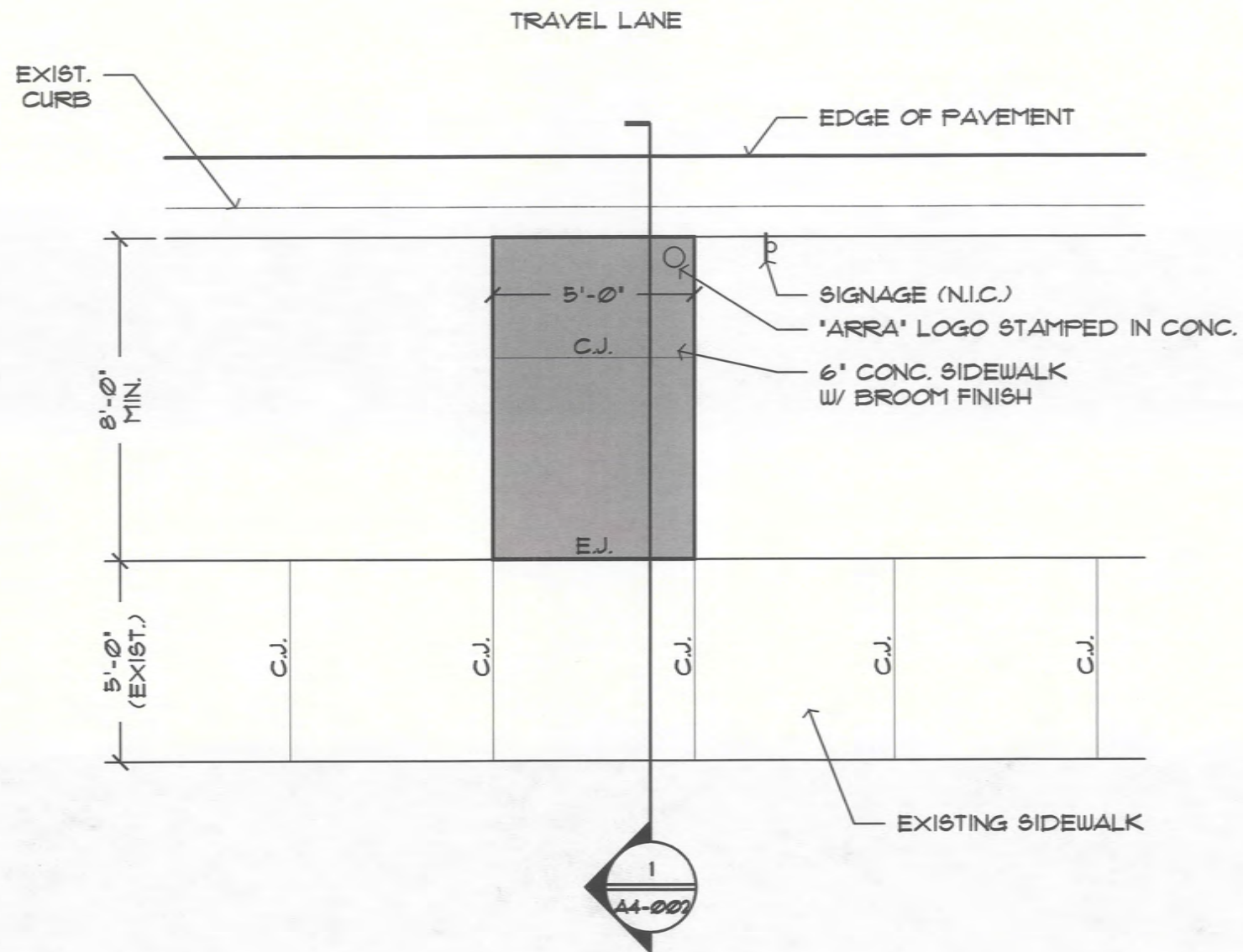
Richard S. Bacon
5/20/13

RICHARD S. BACON, AIA
AR #0011946

CONDITION 3 SECTIONS

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
BRADENTON, FLORIDA 34208

REVISIONS	
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PRINTED DATE	
May 16, 2013	
SHEET ID	
A3 - 002	
PROJECT ID	
BG13-07	



SLAB NOTES:
 JOINTS @ 5'-0" O.C. 3/4" DEEP.
 EXPANSION JOINTS AS SHOWN ON PLANS.
 SIDEWALK TO HAVE 1:50 CROSS SLOPE
 & TO HAVE BROOM FINISH.
LEGEND:

EXTENTS OF NEW SLAB
 (EXISTING CONDITIONS MAY VARY
 AND SHALL BE FIELD VERIFIED.)

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



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Richard S. Bacon
 7/26/13

RICHARD S. BACON, AIA
 AR #0011946

CONDITION 4 SITE PLAN

ADA BOARDING PAD PROJECT
 MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
 1108 26th AVENUE EAST
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PROJECT NO:
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RICHARD S. BACON, AIA
AR #0011946

CONDITION 4 SITE PLAN

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
BRADENTON, FLORIDA 34208

REVISIONS

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DRAWN BY:
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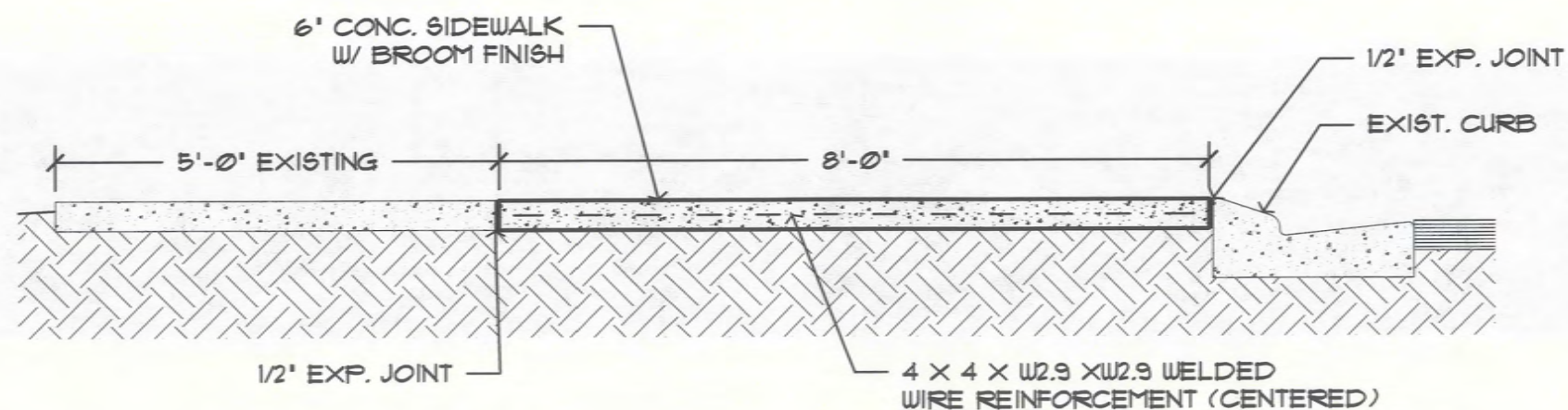
May 16, 2013

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A4 - 002

PROJECT ID:

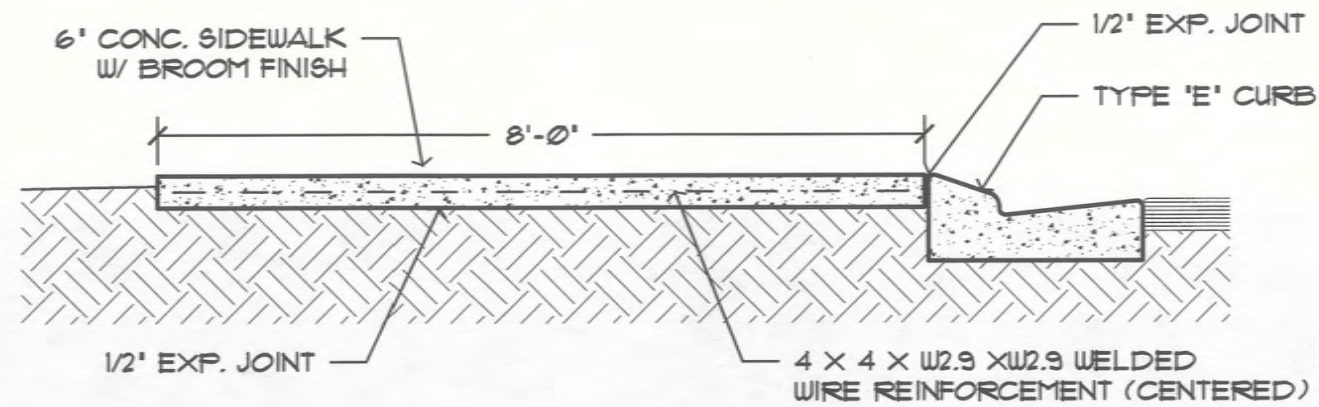
BG13-07



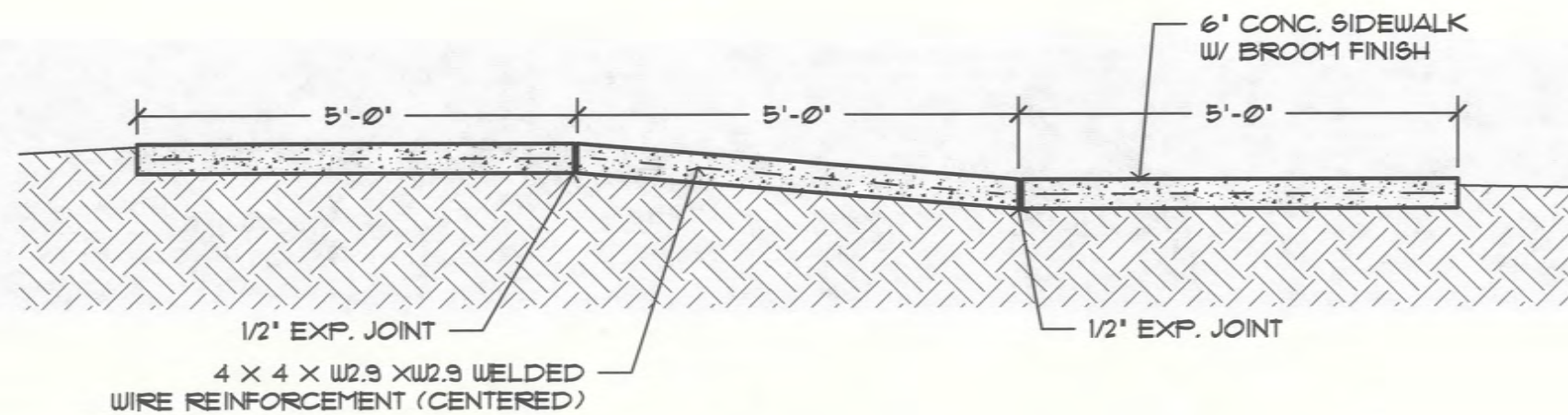
1

SECTION

SCALE: 1/2" = 1'-0"



2 SECTION
SCALE: 1/2"=1'-0"



1 SECTION
SCALE: 1/2"=1'-0"



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RICHARD S. BACON, AIA
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CONDITION 5 SECTIONS

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
BRADENTON, FLORIDA 34208

REVISIONS

1
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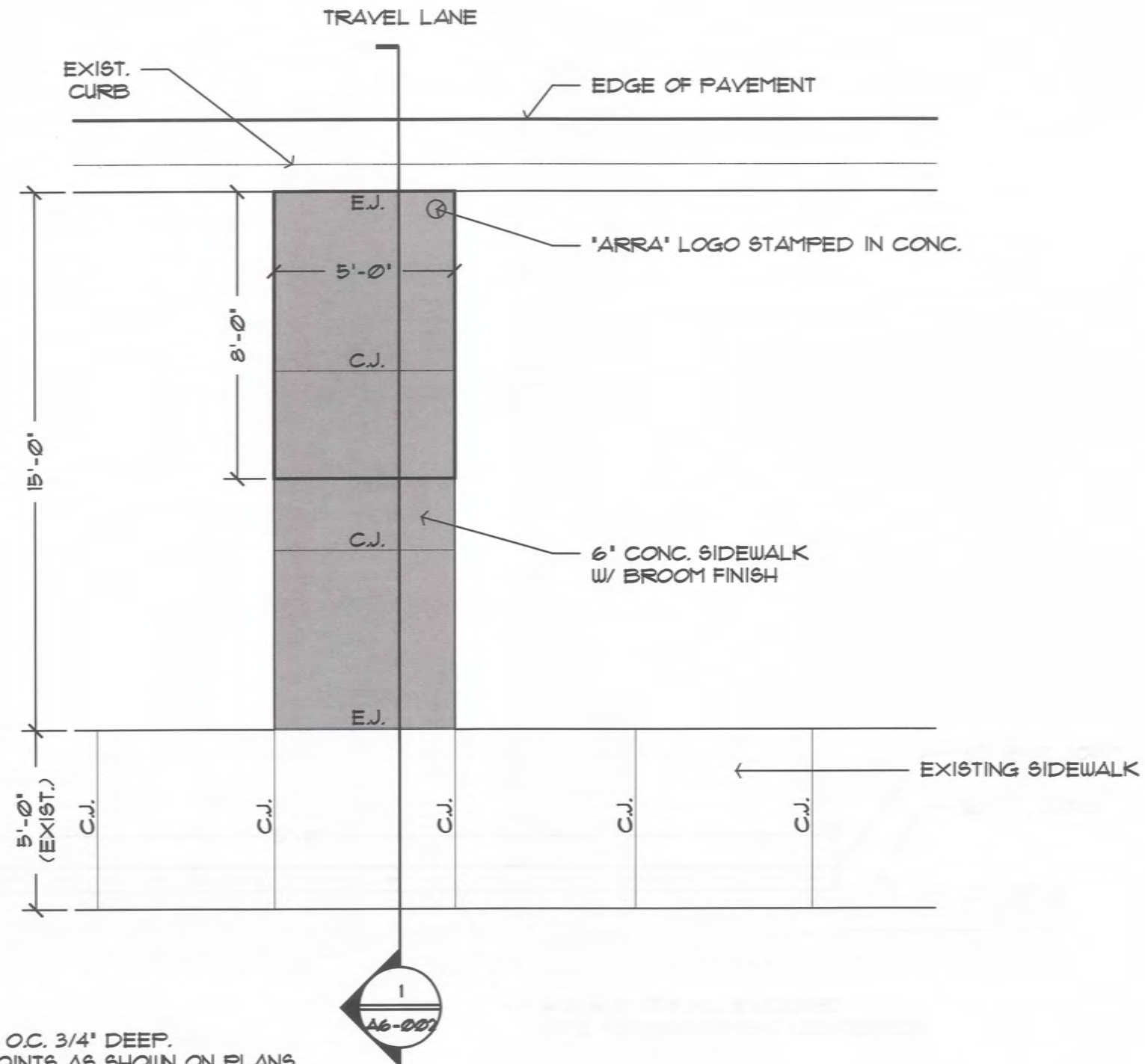
May 16, 2013

SHEET ID:


A5 - 002

PROJECT ID:

BG13-07



SLAB NOTES:
 JOINTS @ 5'-0" O.C. 3/4" DEEP.
 EXPANSION JOINTS AS SHOWN ON PLANS.
 SIDEWALK TO HAVE 1:50 CROSS SLOPE
 & TO HAVE BROOM FINISH.
LEGEND:

 EXTENTS OF NEW SLAB
 (EXISTING CONDITIONS MAY VARY
 AND SHALL BE FIELD VERIFIED.)

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



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Richard S. Bacon
 5/20/13

RICHARD S. BACON, AIA
 AR #0011946

CONDITION 6 SITE PLAN
 ADA BOARDING PAD PROJECT
 MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
 1108 26th AVENUE EAST
 BRADENTON, FLORIDA 34208

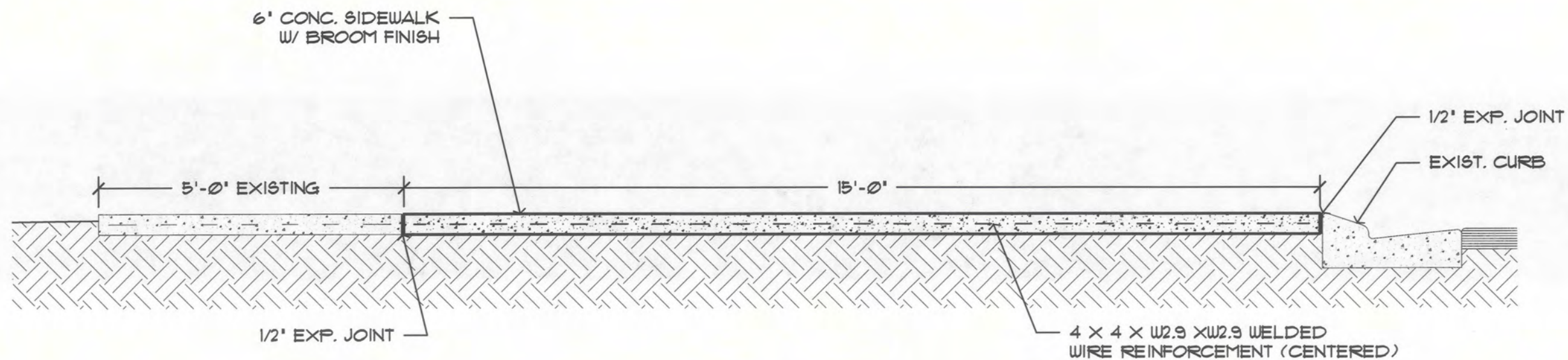
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PRINTED DATE
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SHEET ID
A6 - 001

PROJECT ID
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1 SECTION
SCALE: 1/2"=1'-0"



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5/20/13

RICHARD S. BACON, AIA
AR #0011946

CONDITION 6 SECTIONS

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
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REVISIONS

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PRINTED DATE:

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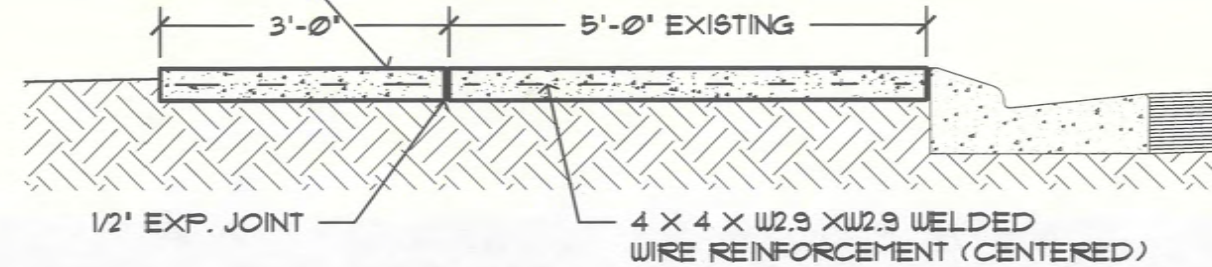
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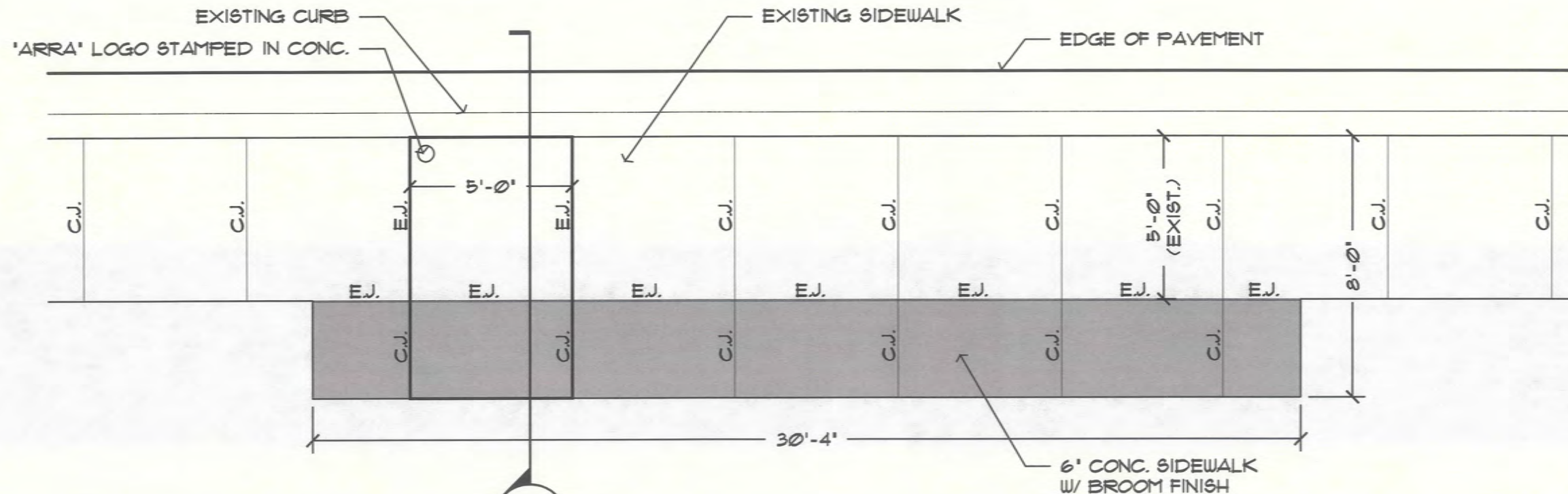
BG13-07

6' CONC. SIDEWALK
W/ BROOM FINISH



2 SECTION

SCALE: 1/2"=1'-0"



SLAB NOTES:
JOINTS @ 5'-0" O.C. 3/4" DEEP.
EXPANSION JOINTS AS SHOWN ON PLANS.
SIDEWALK TO HAVE 1:50 CROSS SLOPE
& TO HAVE BROOM FINISH.

LEGEND:

EXTENTS OF NEW SLAB
(EXISTING CONDITIONS MAY VARY
AND SHALL BE FIELD VERIFIED.)

1 SITE PLAN

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



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Richard S. Bacon, AIA
2/8/13

RICHARD S. BACON, AIA
AR #0011946

CONDITION 7 SITE PLAN & SECTION

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
BRADENTON, FLORIDA 34208

REVISIONS

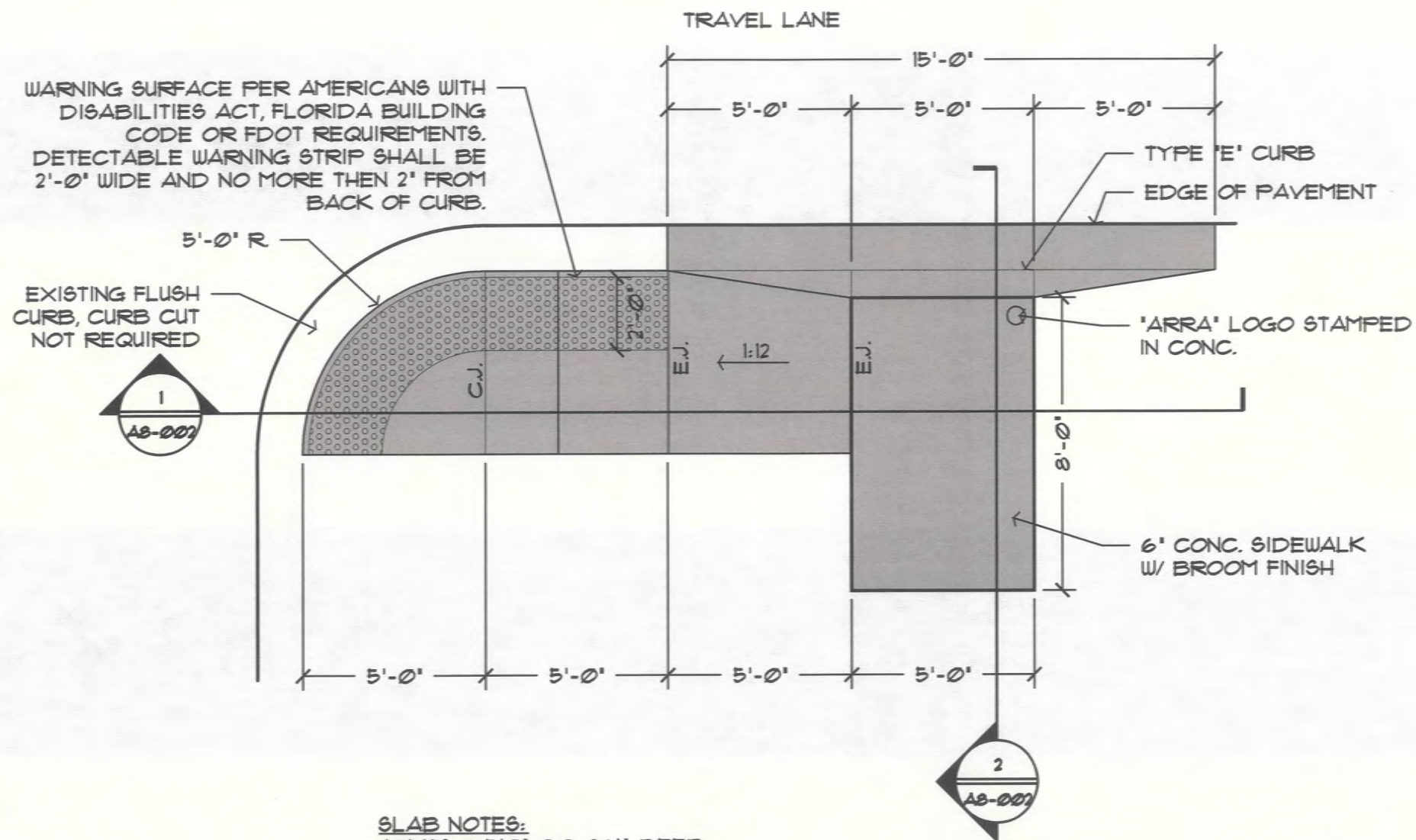
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May 16, 2013

SHEET ID:
A7 - 001

PROJECT ID:
BG13-07



SLAB NOTES:
 JOINTS @ 5'-0" O.C. 3/4" DEEP.
 EXPANSION JOINTS AS SHOWN ON PLANS.
 SIDEWALK TO HAVE 1:50 CROSS SLOPE
 & TO HAVE BROOM FINISH.
LEGEND:

EXTENTS OF NEW SLAB
 (EXISTING CONDITIONS MAY VARY
 AND SHALL BE FIELD VERIFIED.)

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



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Richard S. Bacon, AIA
 AR #0011946

CONDITION 8 SITE PLAN

ADA BOARDING PAD PROJECT
 MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
 1108 26th AVENUE EAST
 BRADENTON, FLORIDA 34208

REVISIONS
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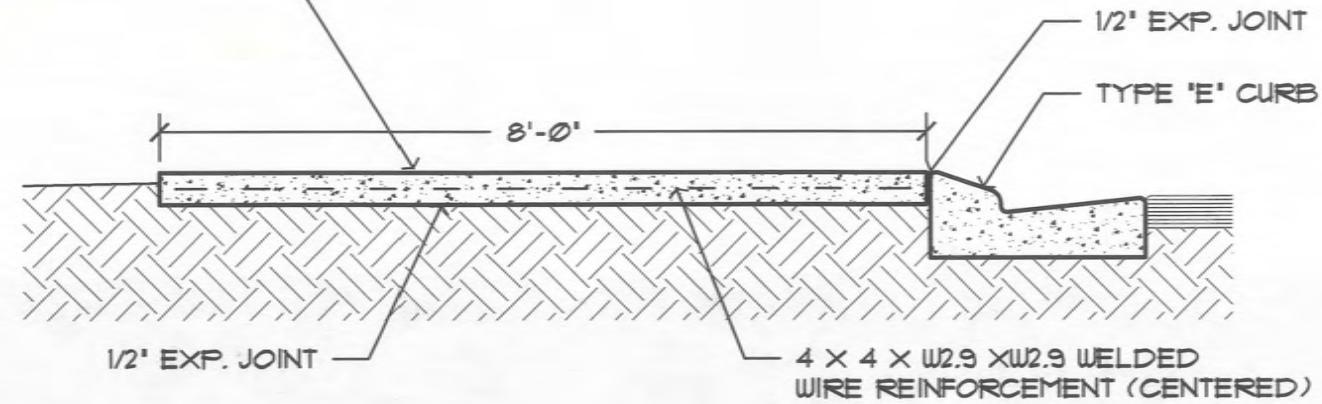
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SHEET ID
A8 - 001

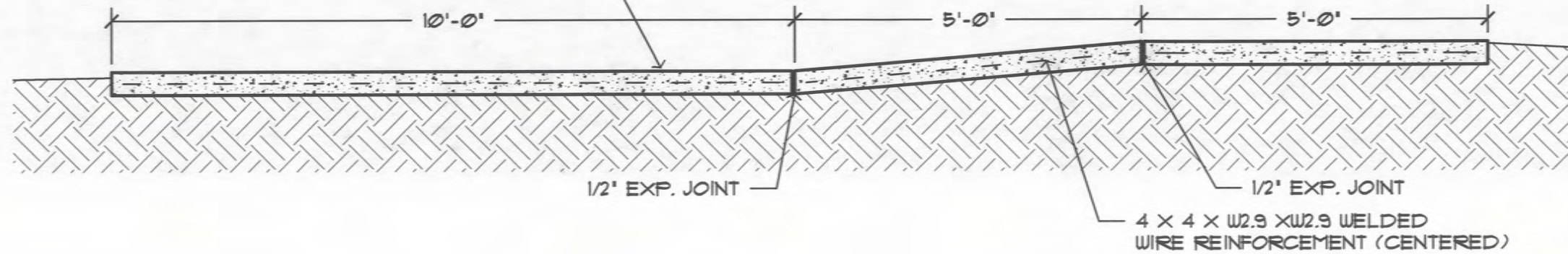
PROJECT ID
 BG13-07

6' CONC. SIDEWALK
W/ BROOM FINISH



2 SECTION
SCALE: 1/2"=1'-0"

6' CONC. SIDEWALK
W/ BROOM FINISH



1 SECTION
SCALE: 1/2"=1'-0"



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Richard S. Bacon
12/8/2013

RICHARD S. BACON, AIA
AR #0011946

CONDITION 8 SECTIONS

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
BRADENTON, FLORIDA 34208

REVISIONS

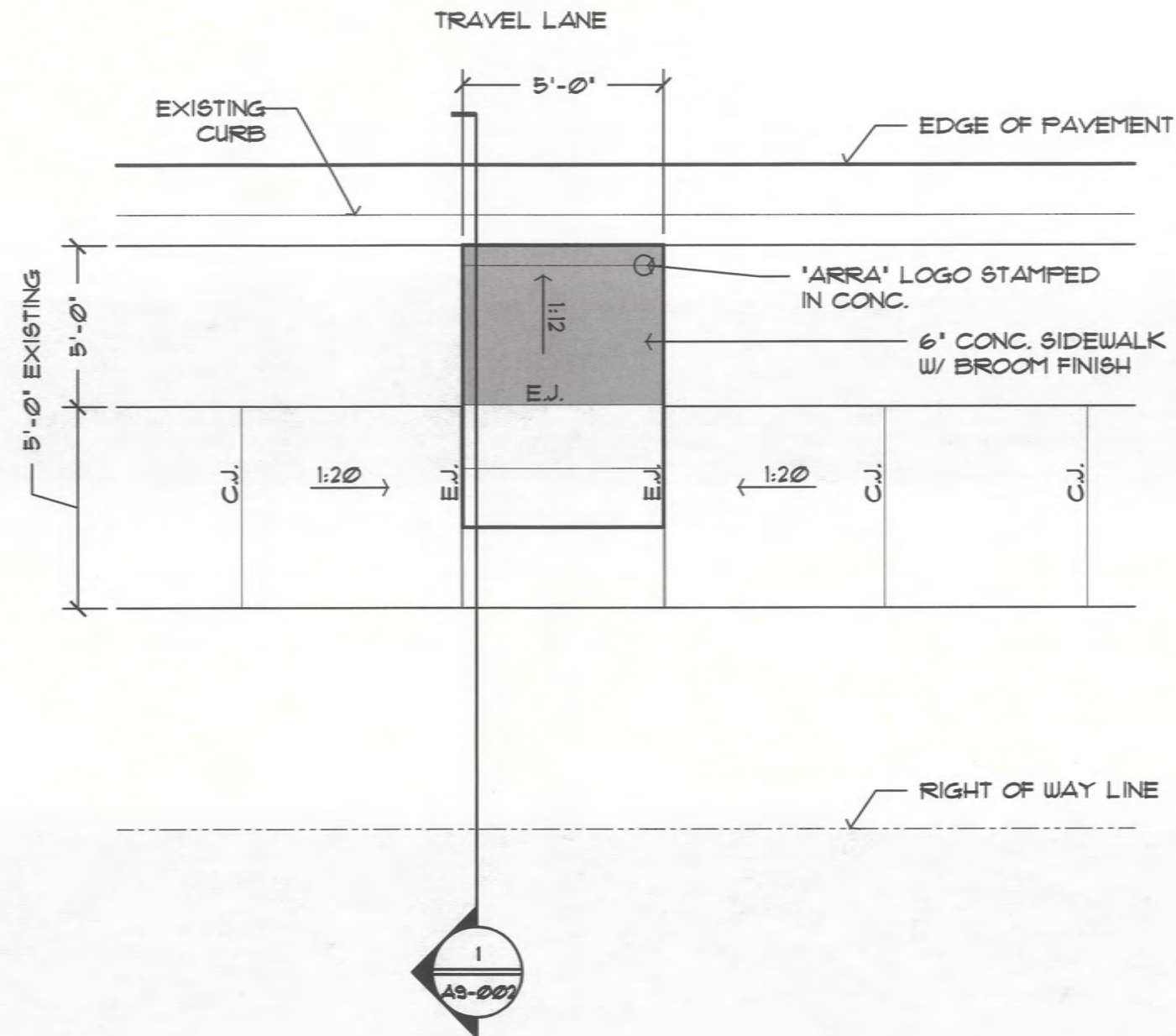
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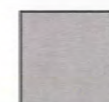
PRINTED DATE:
May 16, 2013

SHEET ID:
A8 - 002

PROJECT ID:
BG13-07



SLAB NOTES:
 JOINTS @ 5'-0" O.C. 3/4" DEEP.
 EXPANSION JOINTS AS SHOWN ON PLANS.
 SIDEWALK TO HAVE 1:50 CROSS SLOPE
 & TO HAVE BROOM FINISH.
LEGEND:

 EXTENTS OF NEW SLAB
 (EXISTING CONDITIONS MAY VARY
 AND SHALL BE FIELD VERIFIED.)

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



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Richard S. Bacon
 5/20/13

RICHARD S. BACON, AIA
 AR #0011946

CONDITION 9 SITE PLAN

ADA BOARDING PAD PROJECT
 MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
 1108 26th AVENUE EAST
 BRADENTON, FLORIDA 34208

REVISIONS

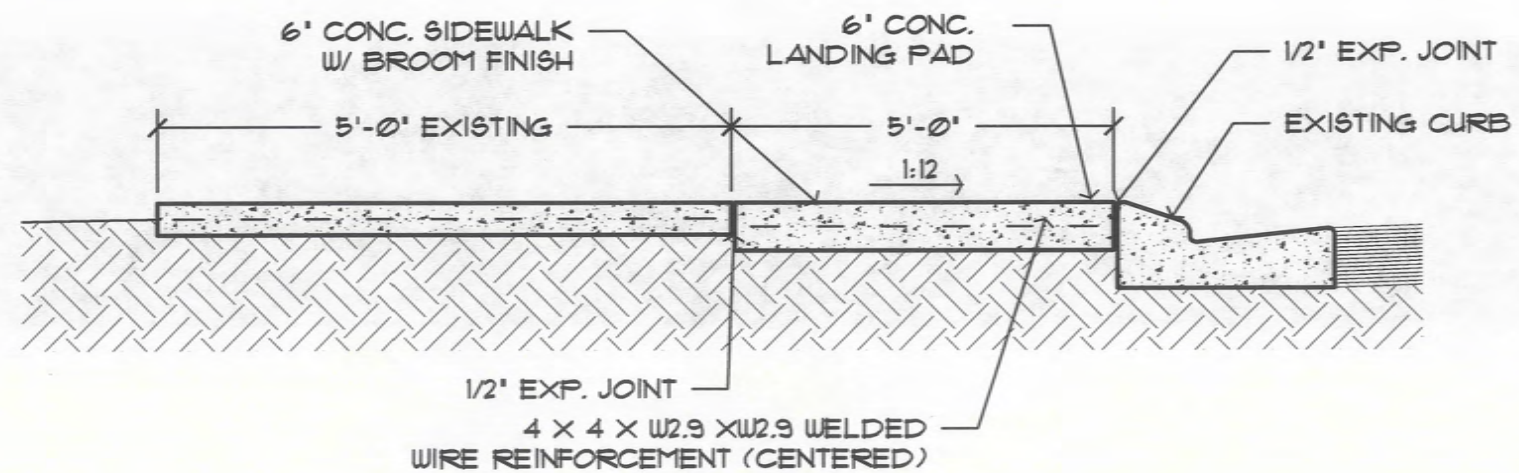
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1 SECTION
SCALE: 1/2" = 1'-0"



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[Signature]
5/20/13

RICHARD S. BACON, AIA
AR #0011946

CONDITION 9 SECTIONS

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
BRADENTON, FLORIDA 34208

REVISIONS

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DESIGNED BY

JRB

PRINTED DATE:

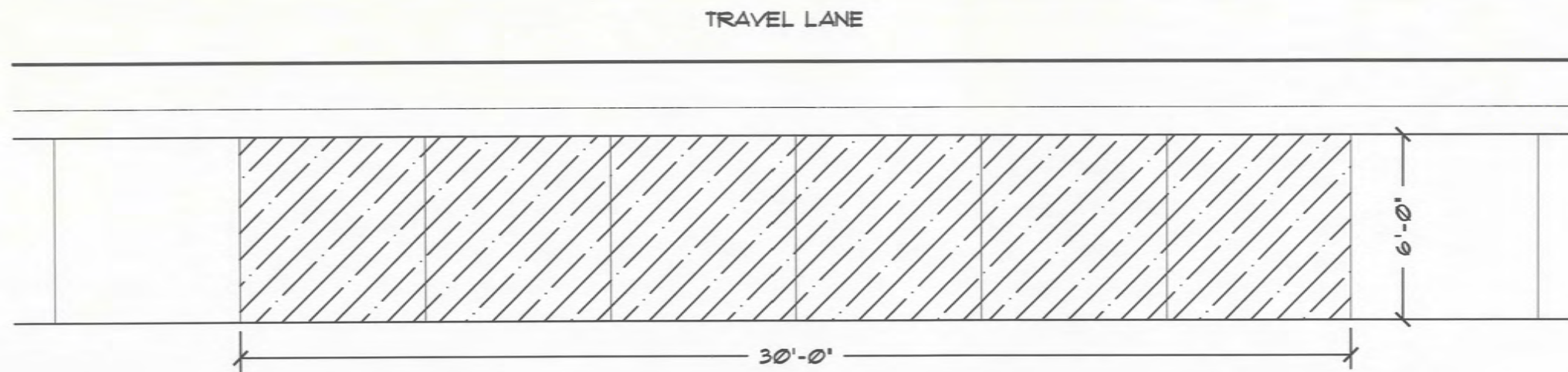
May 16, 2013

SHEET ID:

A9 - 002

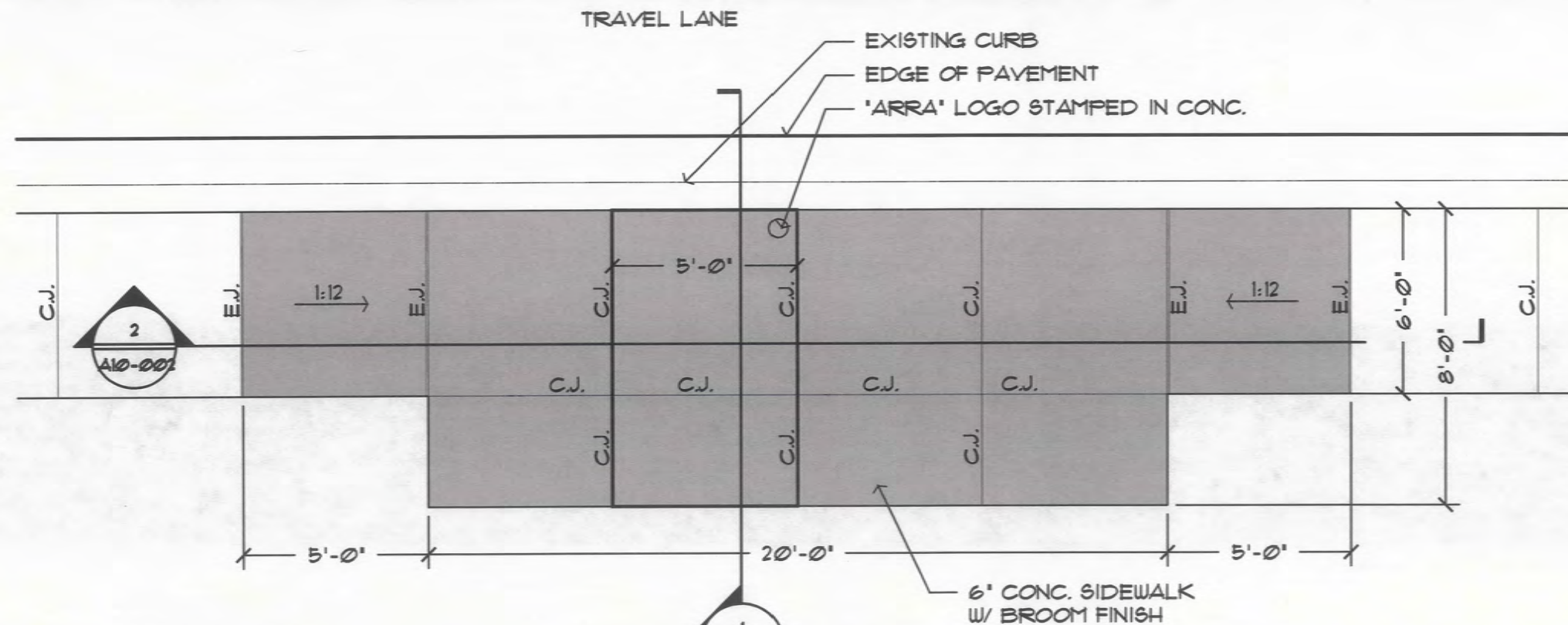
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BG13-07



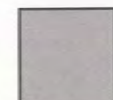
2 SITE DEMO. PLAN

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



SLAB NOTES:
 JOINTS @ 5'-0" O.C. 3/4" DEEP.
 EXPANSION JOINTS AS SHOWN ON PLANS.
 SIDEWALK TO HAVE 1:50 CROSS SLOPE
 & TO HAVE BROOM FINISH.

LEGEND:

 EXTENTS OF NEW SLAB
 (EXISTING CONDITIONS MAY VARY
 AND SHALL BE FIELD VERIFIED.)

1 SITE PLAN

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



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Richard S. Bacon
 RICHARD S. BACON, AIA
 AR #0011946

CONDITION 10 SITE PLAN & DEMO. PLAN

ADA BOARDING PAD PROJECT
 MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
 1108 26th AVENUE EAST
 BRADENTON, FLORIDA 34208

REVISIONS



DESIGNED BY

JRB

PRINTED DATE

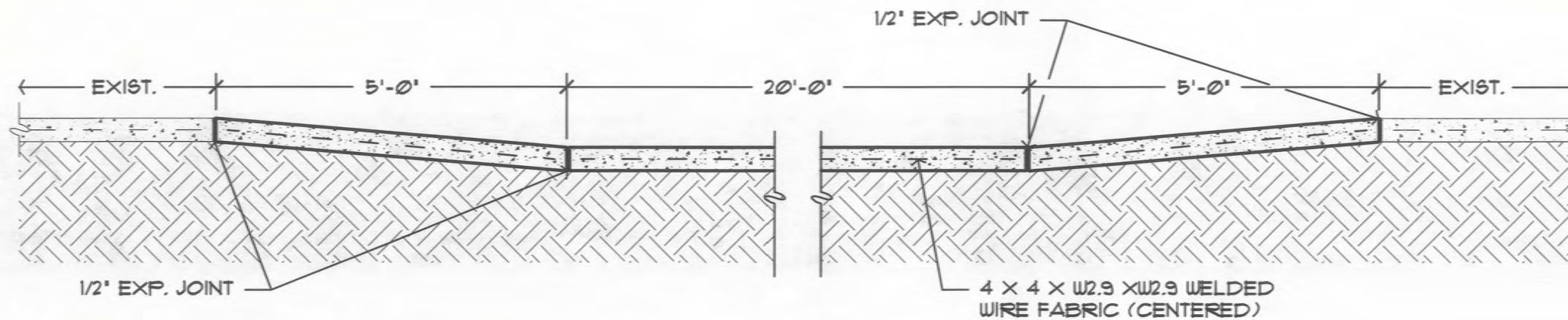
May 16, 2013

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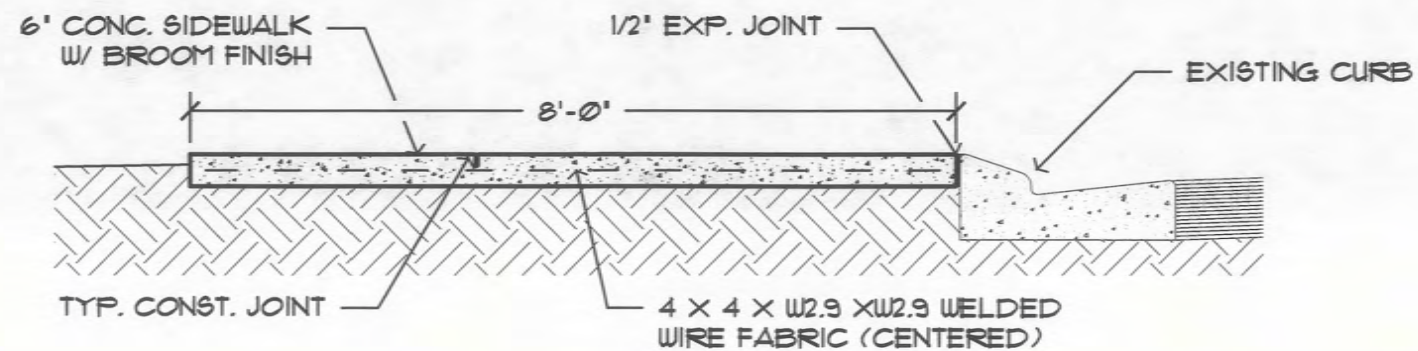
A10 - 001

PROJECT ID:

BG13-07



1 **TYPICAL SECTION**
SCALE: 1/2" = 1'-0"



1 **TYPICAL SECTION**
SCALE: 1/2" = 1'-0"



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AR #0011946

CONDITION 10 SECTIONS

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
BRADENTON, FLORIDA 34208

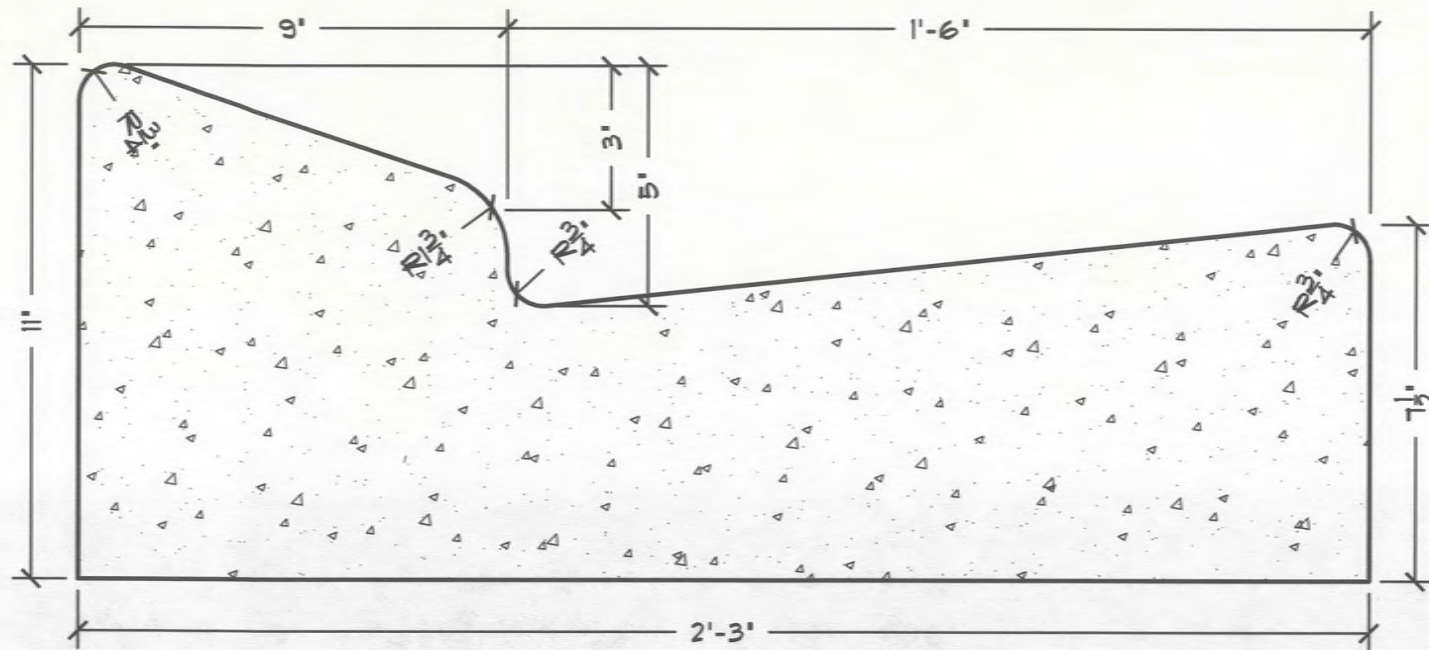
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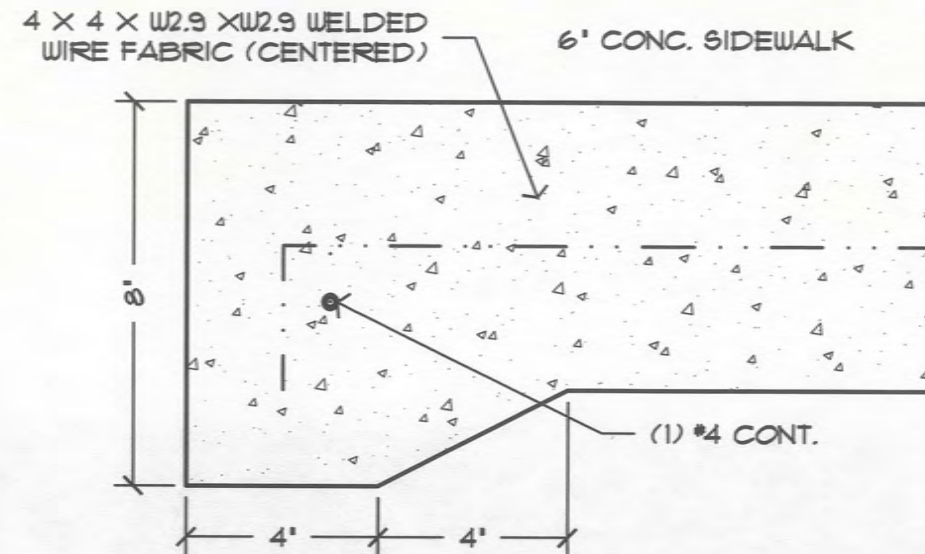
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May 16, 2013

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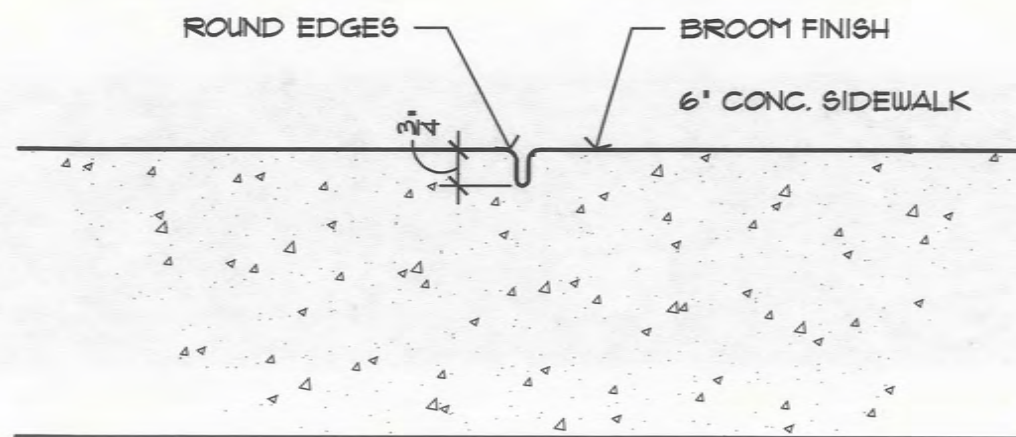
PROJECT ID
BG13-07



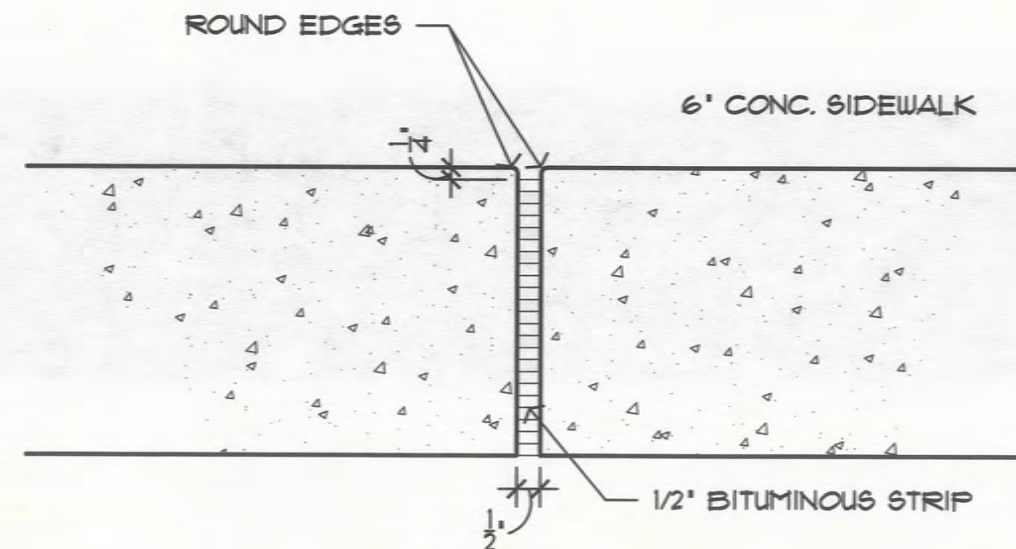
4 TYPE "E" CURB
SCALE: 3"=1'-0"



3 TYP. TURNDOWN SLAB
SCALE: 3"=1'-0"



2 TYP. CONSTRUCTION JOINT
SCALE: 3"=1'-0"



1 TYP. EXPANSION JOINT
SCALE: 3"=1'-0"



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Richard S. Bacon
RICHARD S. BACON, AIA
AR #0011946

STANDARD DETAILS
ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
BRADENTON, FLORIDA 34208

REVISIONS	DATE	BY
1		JRB
2		
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DESIGNED BY	JRB	
PRINTED DATE:	May 16, 2013	
SHEET ID:		
PROJECT ID:	BG13-07	

MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT

ADA BOARDING PADS W/ SHELTER SLABS

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COVER
ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
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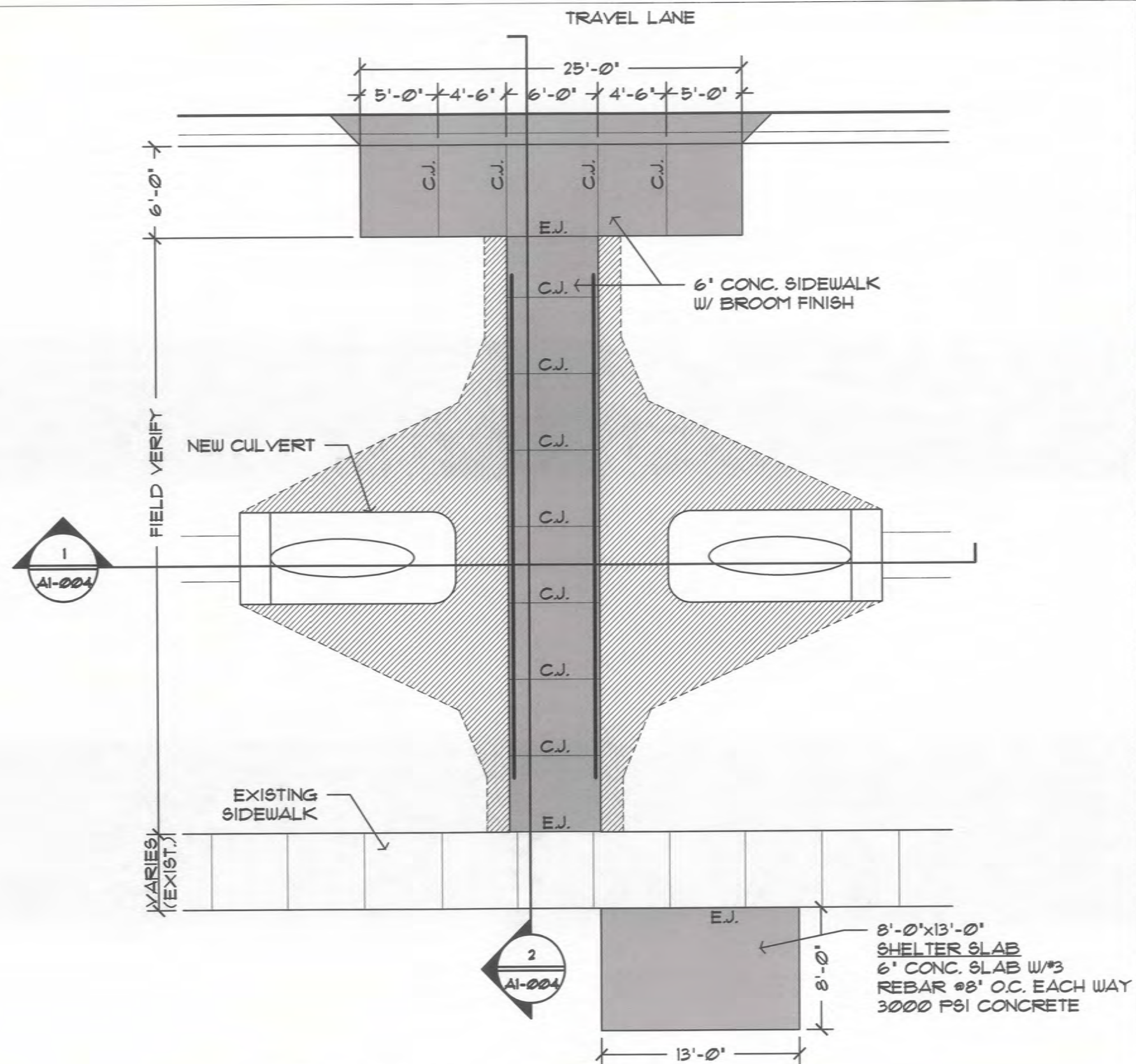
PROJECT NO:
BG13-07

NEW CULVERT TO BE 30' DIAMETER R.C.P.,
ASTM C-76 CLASS III WALL B. R.C.P. LENGTH
TO BE APPROX. 36' INCLUDING MITERED ENDS.
PROVIDE MITERED END SECTIONS, SLOPE
PAVEMENT, PIPE GRATES, ETC. ALL IN
CONFORMANCE WITH FDOT STD. INDEX
DRAWING 273. SLOPE TO BE 4:1. SOLID
SOD ALL NEW SLOPES AND EXPOSED
DITCH BOTTOM. SLOPE BOTTOM OF NEW
CULVERT TO MATCH EXISTING DRAINAGE
DITCH SLOPE. - FIELD VERIFY

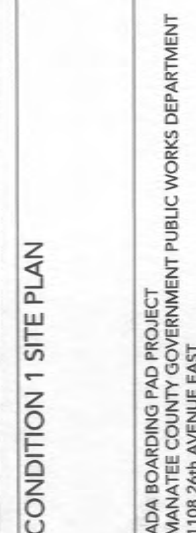
JOINTS @ 5'0" O.C. 3/4" DEEP.
EXPANSION JOINTS AS SHOWN ON PLANS.
SIDEWALK TO HAVE 1:50 CROSS SLOPE
& TO HAVE BROOM FINISH.

NOTE:
GRADES FROM EXISTING SIDEWALK TO SIDEWALK
MUST BE FIELD VERIFIED.

EXTENTS OF NEW SLAB
(EXISTING CONDITIONS MAY VARY
AND SHALL BE FIELD VERIFIED.)

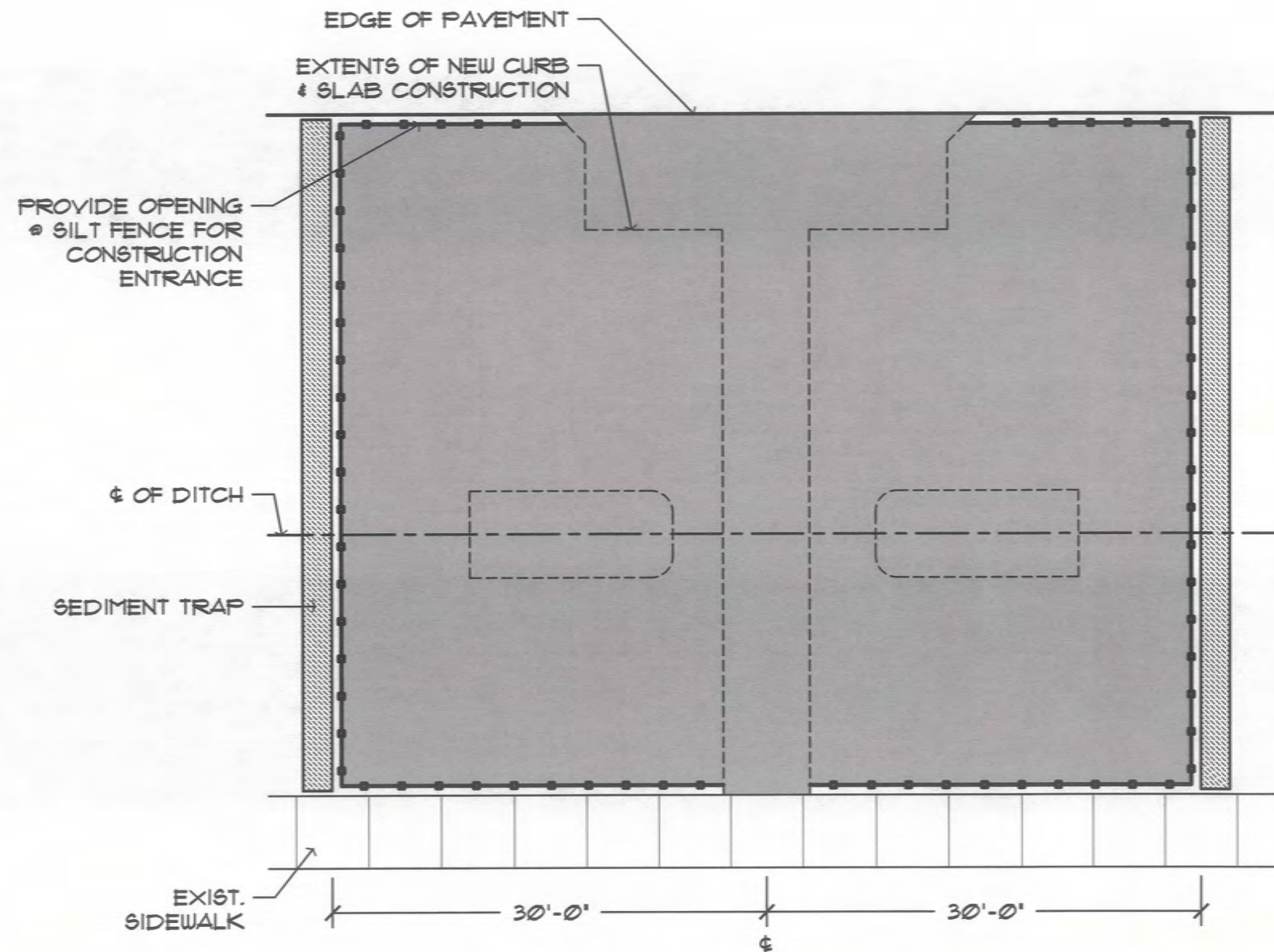


1 SITE PLAN
SCALE: 1/8" = 1'-0"






CONDITION 1 SITE PLAN

		REVISIONS
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LEGEND

-  SILT FENCE
-  STANDARD STRAW BALES
-  AREA TO BE IMPACTED BY CONSTRUCTION

1 EROSION CONTROL PLAN SCALE: 3/32"=1'-0"



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CONDITION 1 EROSION CONTROL PLAN

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
BRADENTON, FLORIDA 34208

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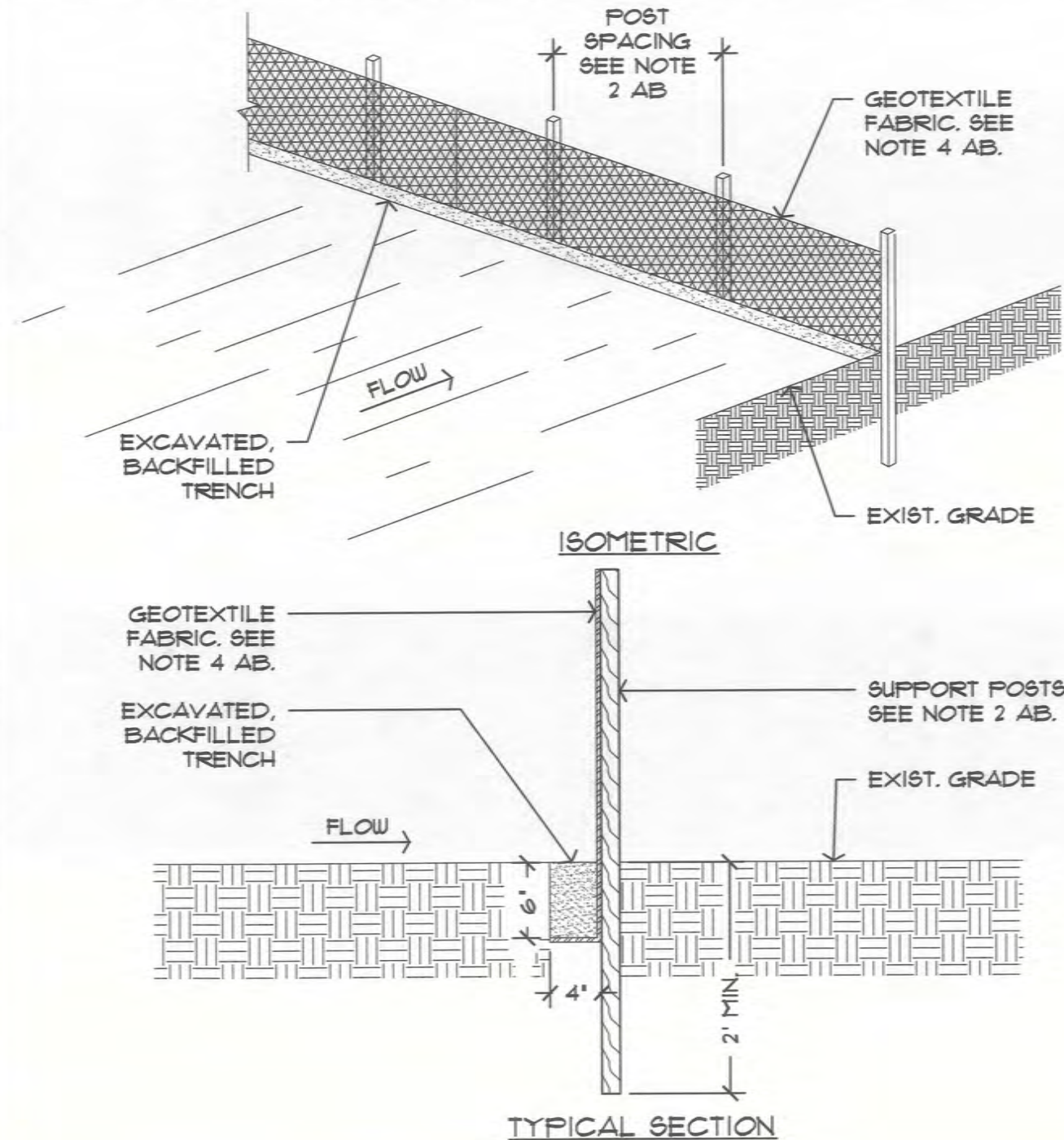
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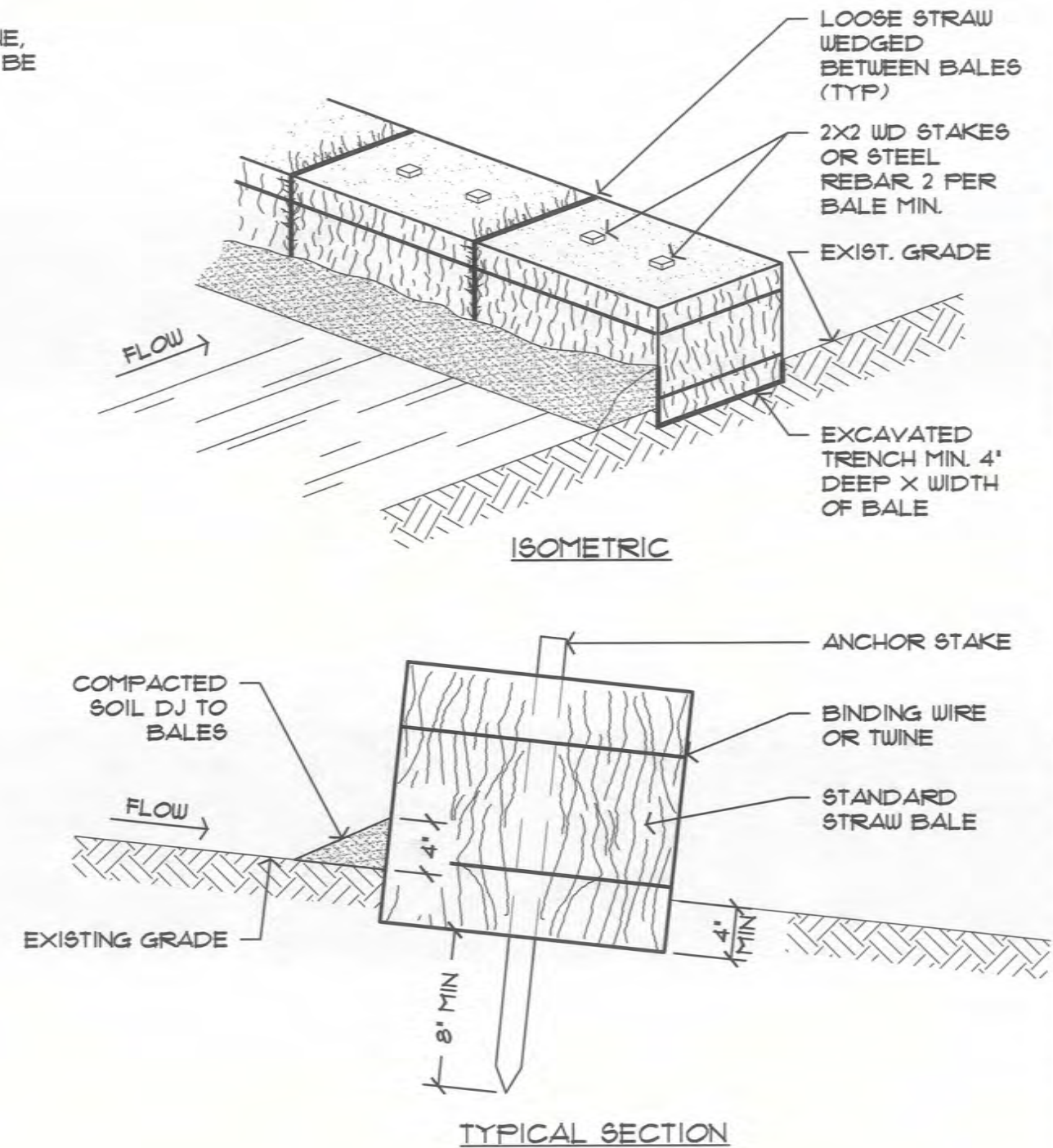
NOTES:

1. GEOTEXTILE FABRIC SHALL BE PLACED IN EXCAVATED TRENCH, BACKFILLED, & COMPACTED TO EXIST. GRADE.
2. WOODEN SUPPORT POSTS SHALL BE P.T. 1 1/8" X 1 1/8" X 4'-0". STEEL POSTS SHALL BE 5'-0" STUDDED 'TEE' OR 'U' TYPE. POSTS SHALL BE 8'-0" O.C. IF WOVEN FABRIC & 3'-0" FOR NON-WOVEN FABRIC.
3. FABRIC FENCE SHALL BE ATTACHED DIRECTLY TO UP-SLOPE SIDE OF POSTS.
4. FOR WD. POSTS, ATTACH FABRIC W/ 1/2" STAPLES @ TOP, MIDDLE & 2' AB. GRADE. FOR STEEL POSTS, ATTACH FABRIC W/ WIRE FASTENERS OR 50 LB PLASTIC TIE STRAPS.
5. GEOTEXTILE FABRIC SHALL CONSIST OF WOVEN OR NON-WOVEN POLYESTER, POLYPROPYLENE, STABILIZED NYLON, POLYETHYLENE, OR POLYVINYLIDENE CHLORIDE. NON-WOVEN FABRIC MAY BE NEEDLE PUNCHED, HEAT BOUNDED, RESIN BONDED, OR COMBINATIONS THEREOF.



NOTES:

1. TURN STRAW BALE ENDS UP 1'-0" MIN. UP-SLOPE AVERT.
2. STRAW BALES SHALL BUTT TOGETHER AS CLOSE AS POSSIBLE
3. AFTER INSTALLATION OF FIRST BALE, THE FIRST STAKE OF THE NEXT BALE SHALL BE DRIVEN TOWARDS THE PREVIOUS BALE (TYPICAL FOR REMAINDER OF BALES)



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AR #0011946

CONDITION 1 TYPICAL EROSION CONTROL
DETAILS
ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
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CONDITION 1 SECTION
ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
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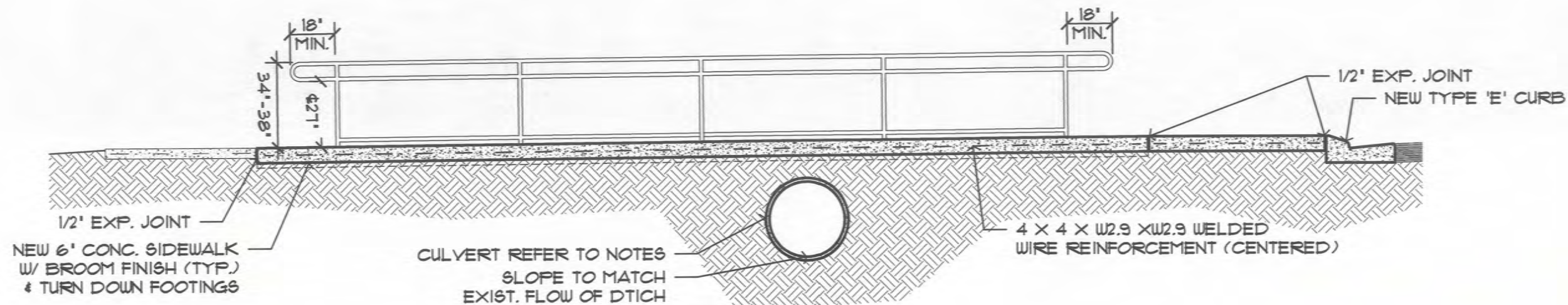
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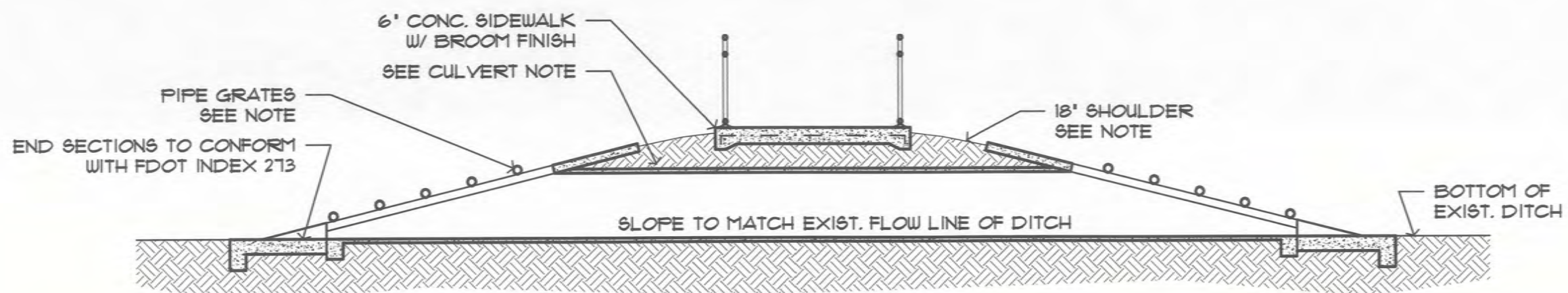
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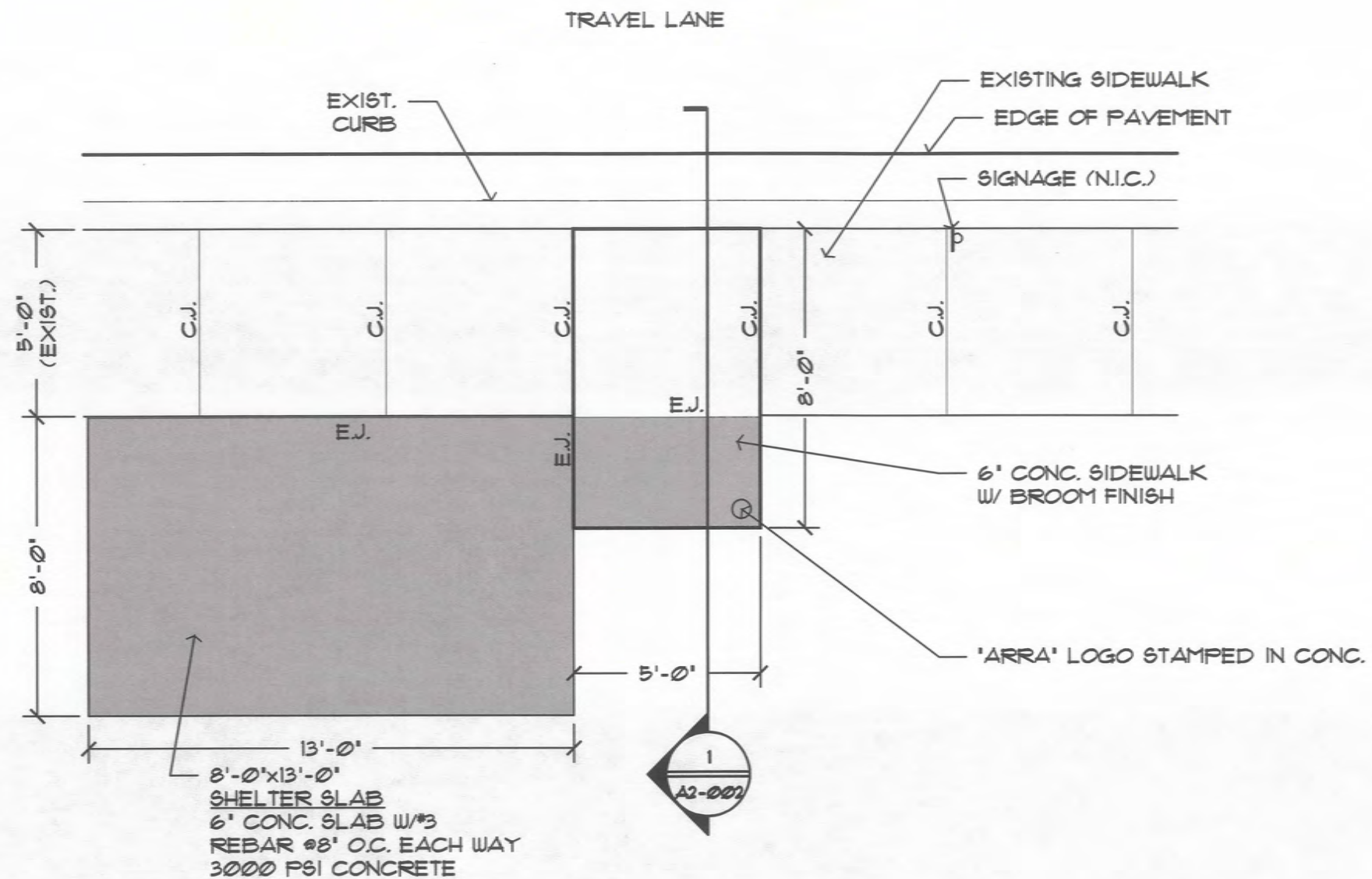
PROJECT ID:
BG13-07



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



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



SLAB NOTES:
JOINTS @ 5'-0" O.C. 3/4" DEEP.
EXPANSION JOINTS AS SHOWN ON PLANS.
SIDEWALK TO HAVE 1:50 CROSS SLOPE
& TO HAVE BROOM FINISH.
LEGEND:

EXTENTS OF NEW SLAB
(EXISTING CONDITIONS MAY VARY
AND SHALL BE FIELD VERIFIED.)

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



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CONDITION 2 SITE PLAN

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
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CONDITION 2 SECTIONS

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
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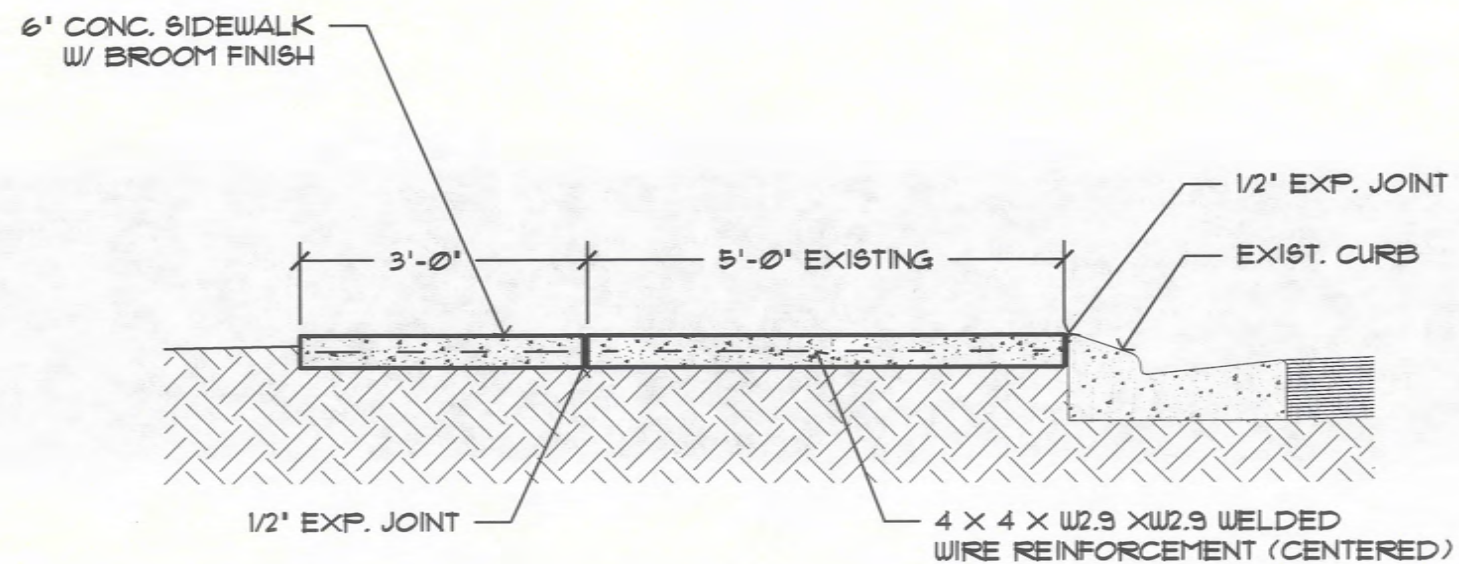
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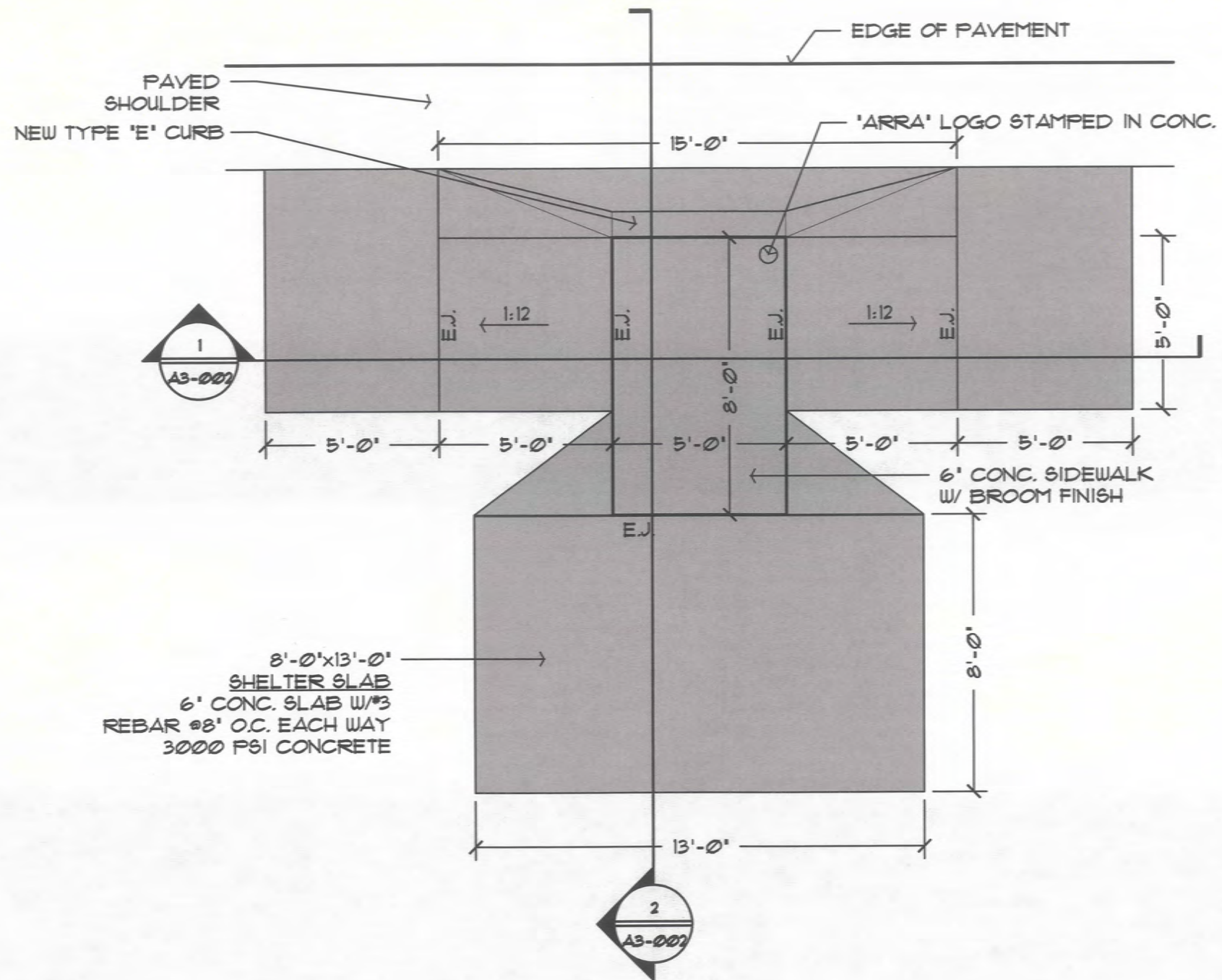
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A2 - 002

PROJECT ID:
BG13-07



1 SECTION
SCALE: 1/2" = 1'-0"



SLAB NOTES:
 JOINTS @ 5'-0" O.C. 3/4" DEEP.
 EXPANSION JOINTS AS SHOWN ON PLANS.
 SIDEWALK TO HAVE 1:50 CROSS SLOPE
 & TO HAVE BROOM FINISH.
LEGEND:

EXTENTS OF NEW SLAB
 (EXISTING CONDITIONS MAY VARY
 AND SHALL BE FIELD VERIFIED.)

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



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RICHARD S. BACON, AIA
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CONDITION 3 SITE PLAN

ADA BOARDING PAD PROJECT
 MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
 1108 26th AVENUE EAST
 BRADENTON, FLORIDA 34208

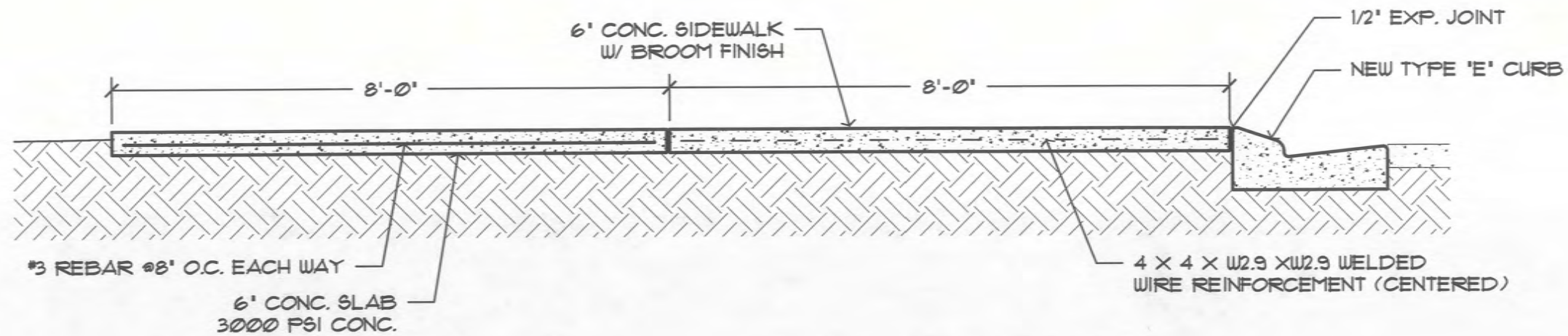
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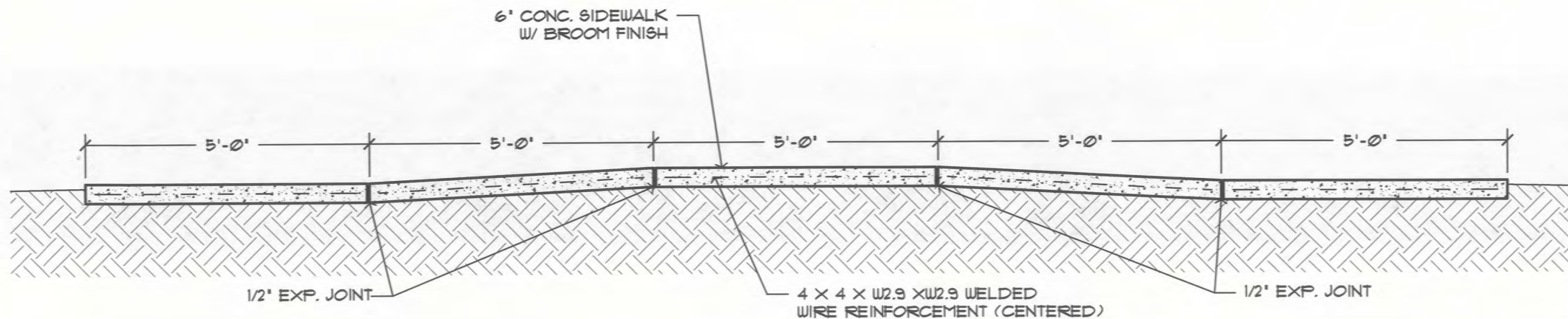
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2 SECTION
SCALE: 1/2"=1'-0"



1 SECTION
SCALE: 1/2"=1'-0"



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CONDITION 3 SECTIONS

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
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BRADENTON, FLORIDA 34208

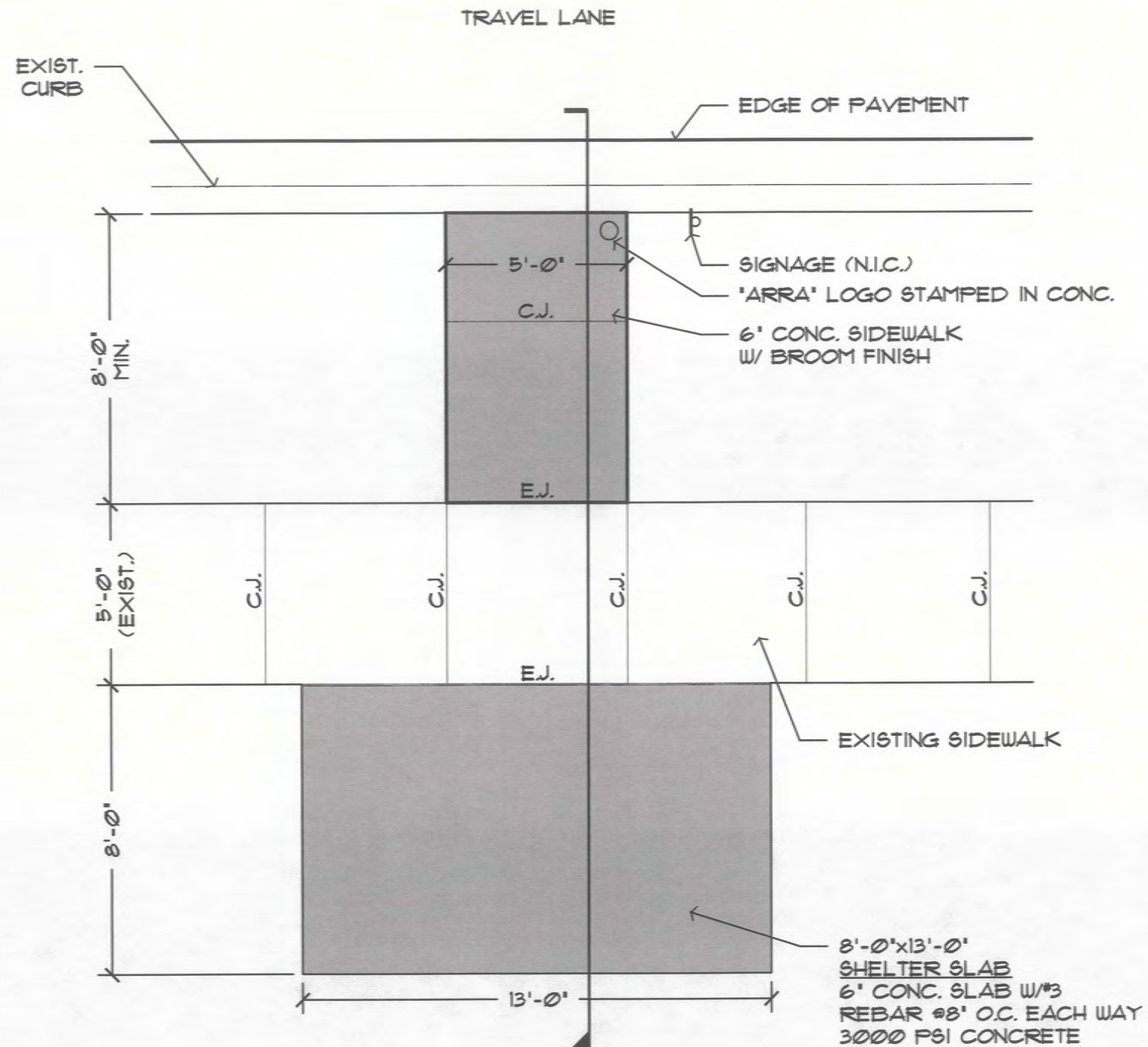
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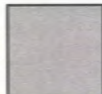
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BG13-07



SLAB NOTES:
JOINTS @ 5'-0" O.C. 3/4" DEEP.
EXPANSION JOINTS AS SHOWN ON PLANS.
SIDEWALK TO HAVE 1:50 CROSS SLOPE
& TO HAVE BROOM FINISH.
LEGEND:

 EXTENTS OF NEW SLAB
(EXISTING CONDITIONS MAY VARY
AND SHALL BE FIELD VERIFIED.)

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



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CONDITION 4 SITE PLAN

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
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2
3

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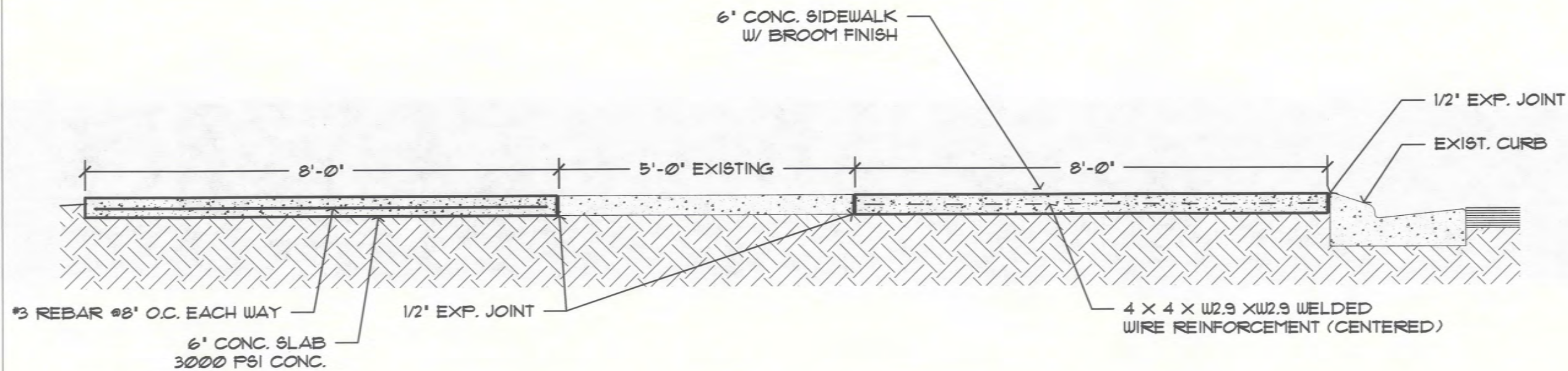
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1 SECTION
SCALE: 1/2"=1'-0"



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AR #0011946

CONDITION 4 SITE PLAN

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
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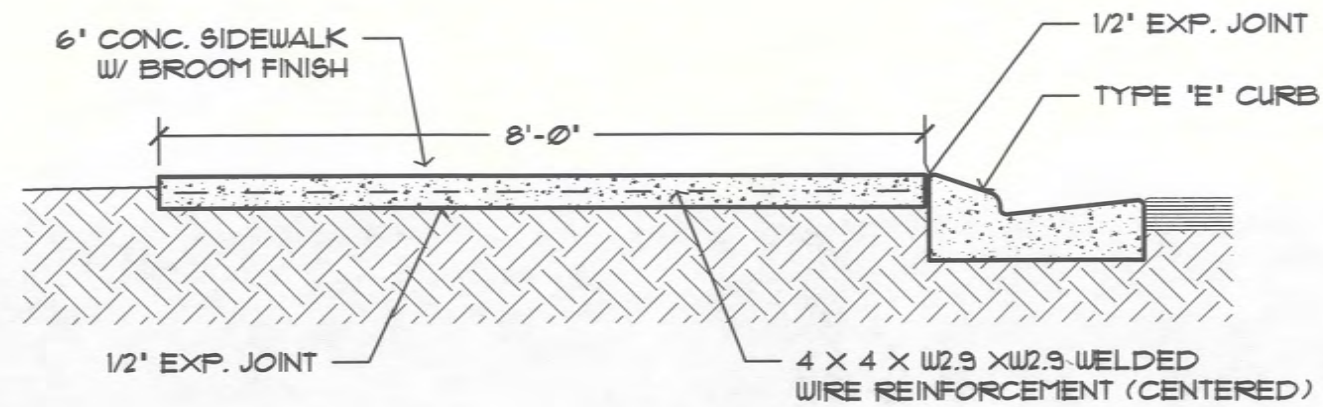
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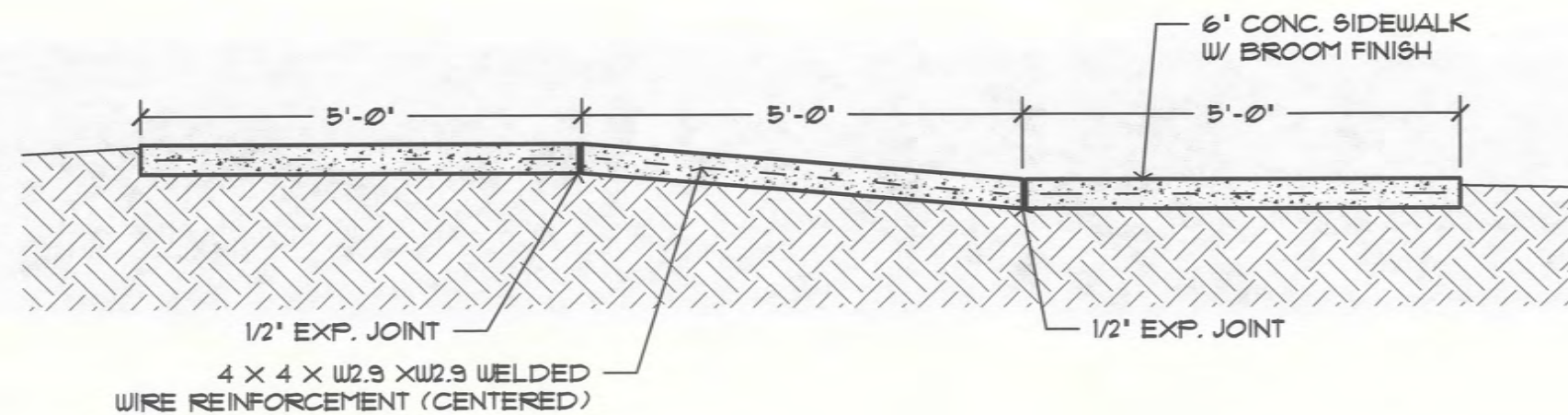
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2 SECTION
SCALE: 1/2" = 1'-0"



1 SECTION
SCALE: 1/2" = 1'-0"



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CONDITION 5 SECTIONS

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
BRADENTON, FLORIDA 34208

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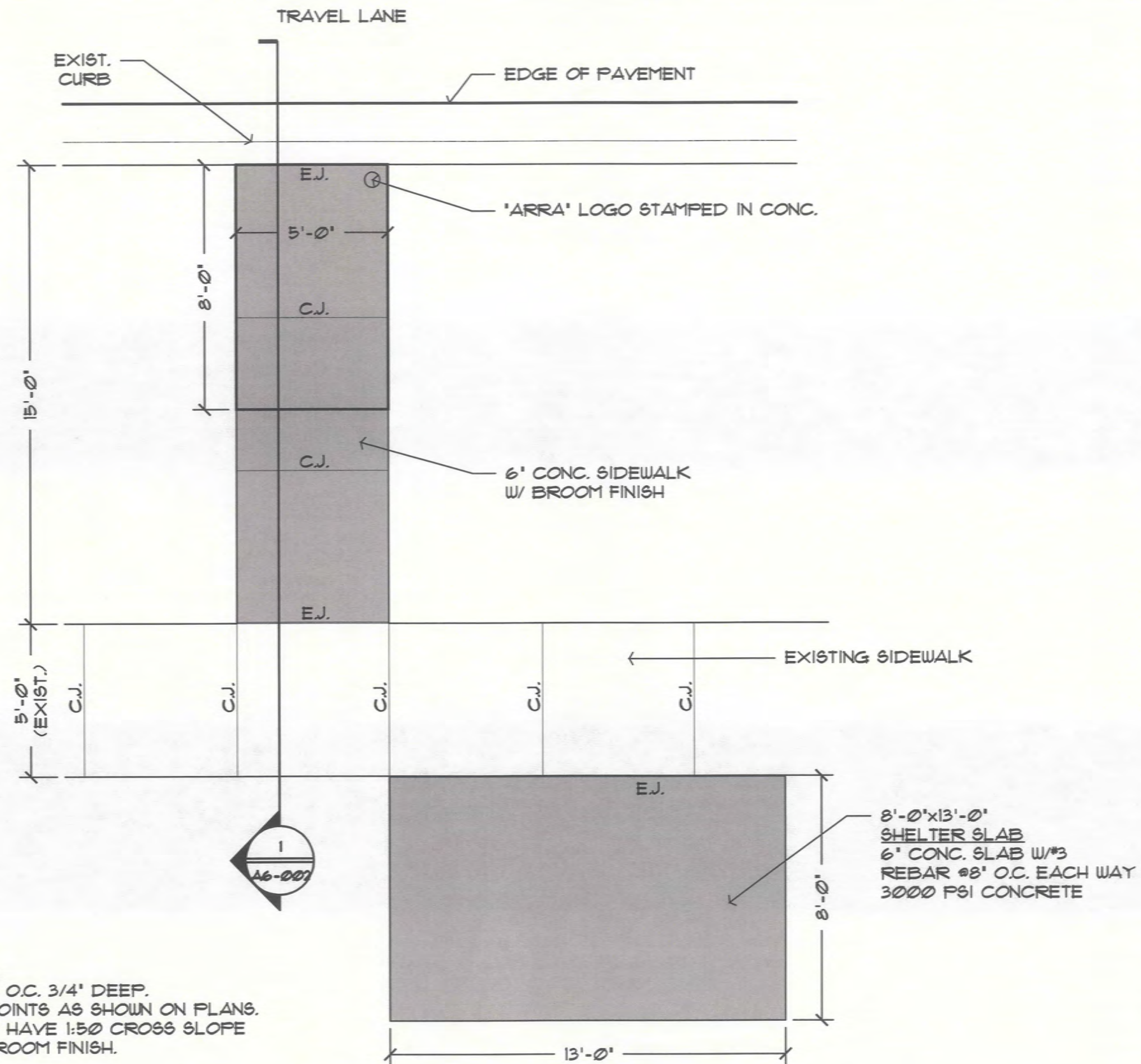
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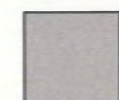
PROJECT ID

BG13-07



SLAB NOTES:
JOINTS @ 5'-0" O.C. 3/4" DEEP.
EXPANSION JOINTS AS SHOWN ON PLANS.
SIDEWALK TO HAVE 1:50 CROSS SLOPE
& TO HAVE BROOM FINISH.

LEGEND:

 EXTENTS OF NEW SLAB
(EXISTING CONDITIONS MAY VARY
AND SHALL BE FIELD VERIFIED.)


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



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CONDITION 6 SITE PLAN
ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
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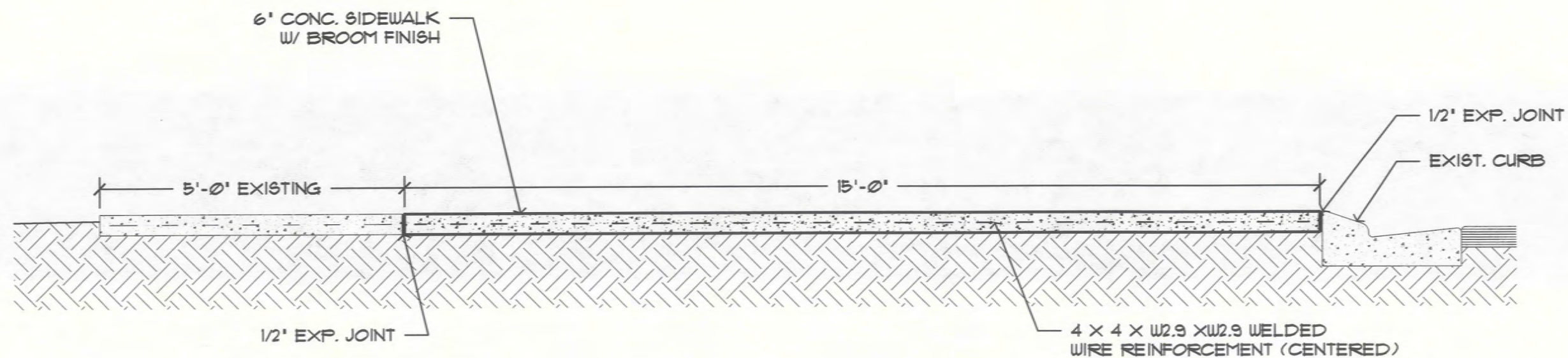
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1 SECTION
SCALE: 1/2" = 1'-0"



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AR #0011946

CONDITION 6 SECTIONS

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
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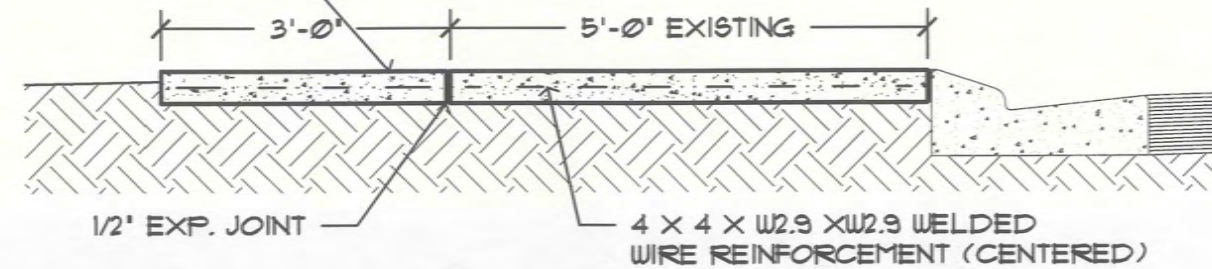
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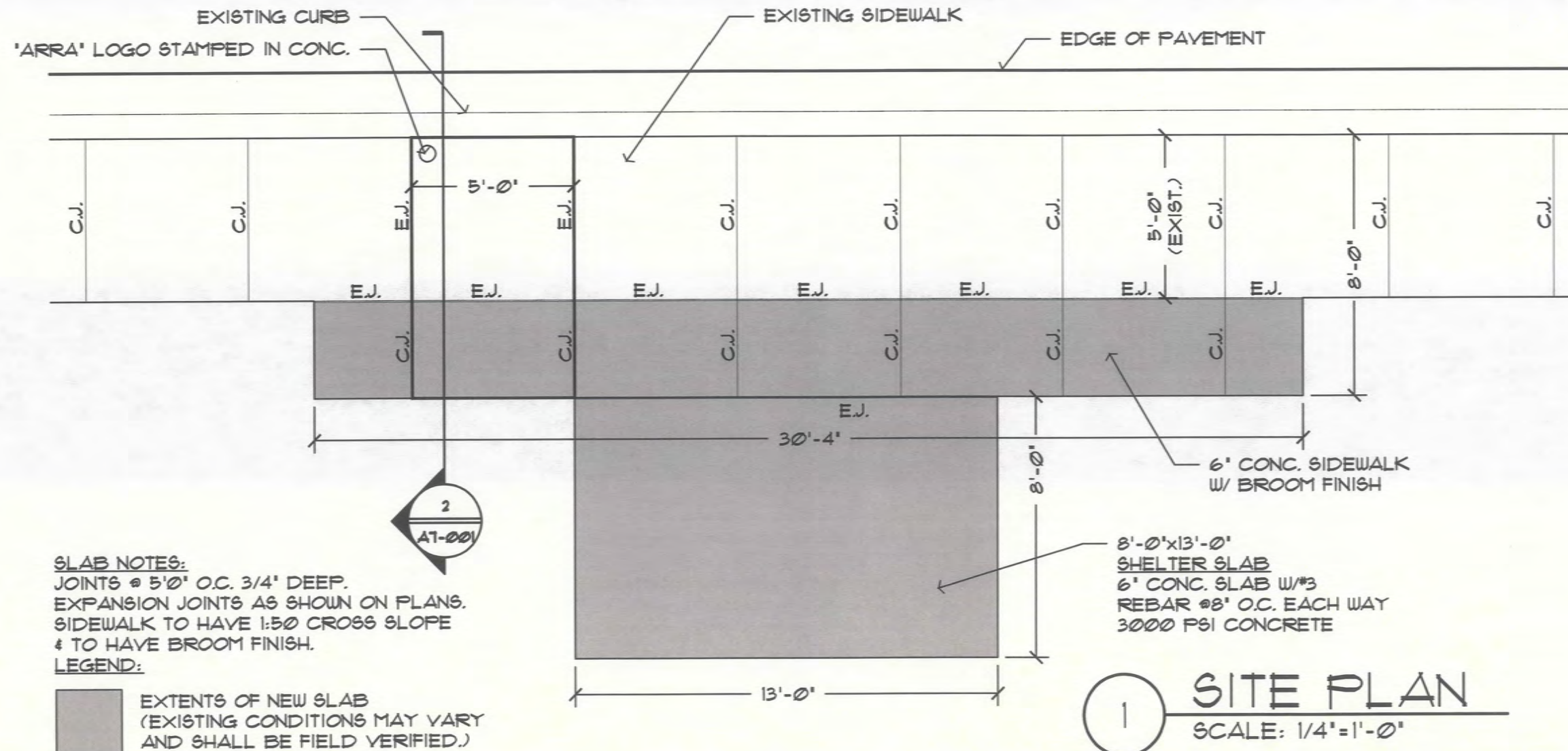
BG13-07

6" CONC. SIDEWALK
W/ BROOM FINISH



2 SECTION

SCALE: 1/2" = 1'-0"



1 SITE PLAN

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



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AR #0011946

CONDITION 7 SITE PLAN & SECTION
ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
BRADENTON, FLORIDA 34208

REVISIONS
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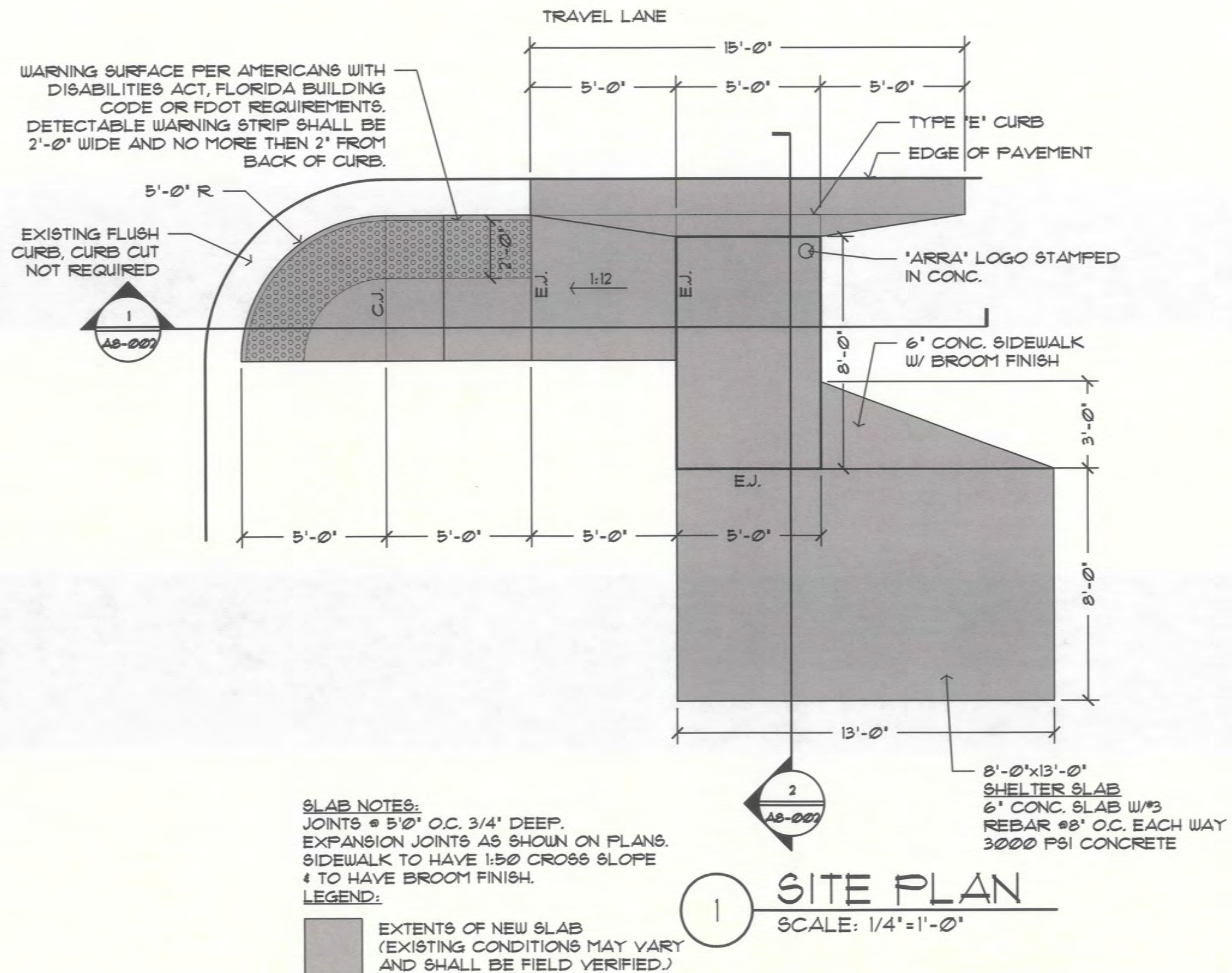
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CONDITION 8 SITE PLAN

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
BRADENTON, FLORIDA 34208

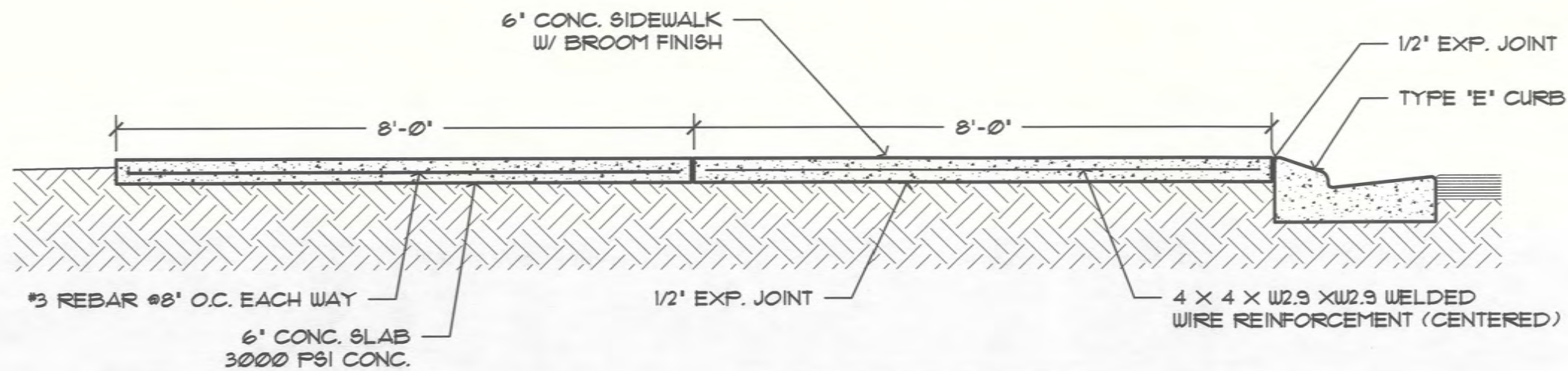
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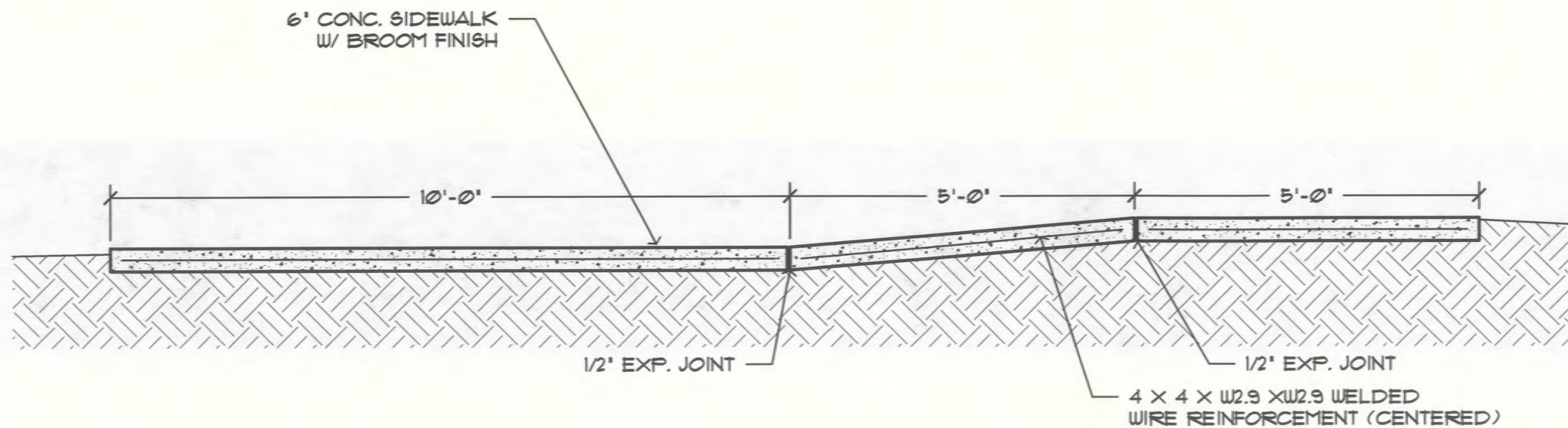
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2 SECTION
SCALE: 1/2"=1'-0"



1 SECTION
SCALE: 1/2"=1'-0"



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CONDITION 8 SECTIONS

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
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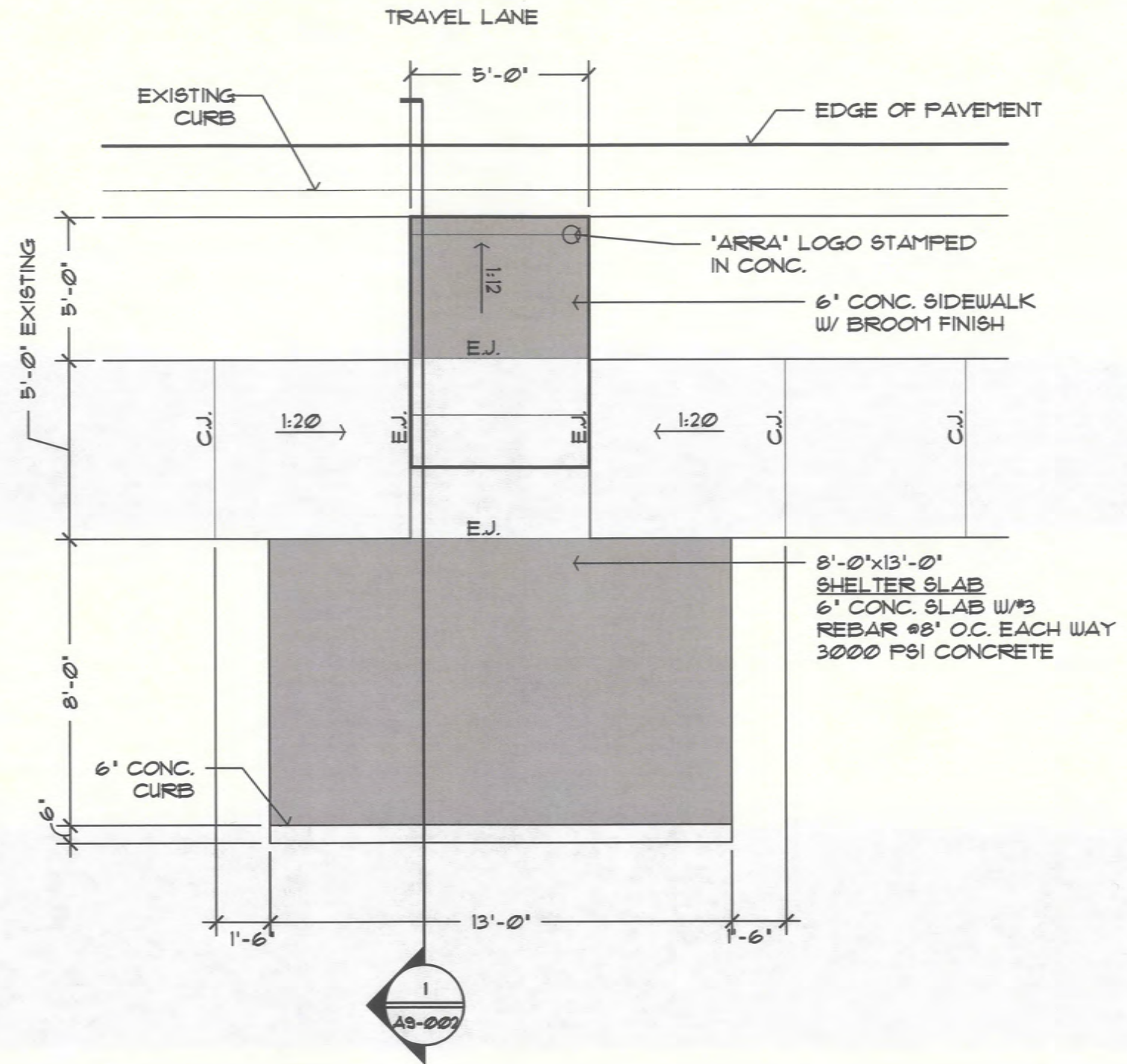
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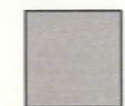
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SLAB NOTES:
 JOINTS @ 5'-0" O.C. 3/4" DEEP.
 EXPANSION JOINTS AS SHOWN ON PLANS.
 SIDEWALK TO HAVE 1:50 CROSS SLOPE
 & TO HAVE BROOM FINISH.
LEGEND:

 EXTENTS OF NEW SLAB
 (EXISTING CONDITIONS MAY VARY
 AND SHALL BE FIELD VERIFIED.)

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



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CONDITION 9 SITE PLAN
 ADA BOARDING PAD PROJECT
 MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
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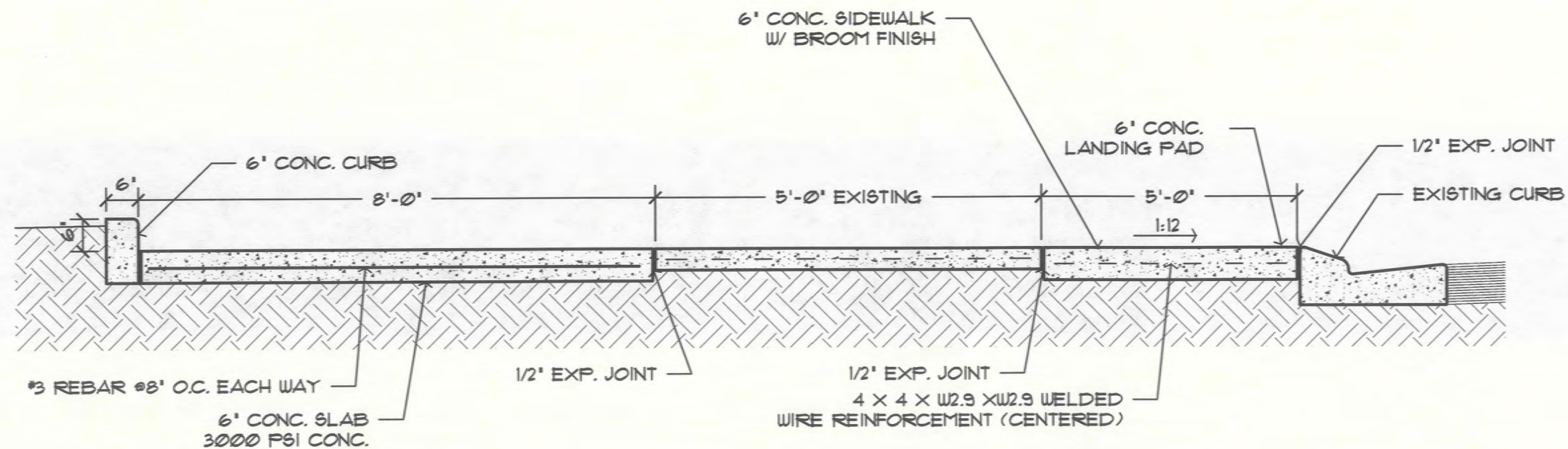
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1 SECTION
SCALE: 1/2"=1'-0"



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AR #0011946

CONDITION 9 SECTIONS
ADA BOARDING PAD PROJECT
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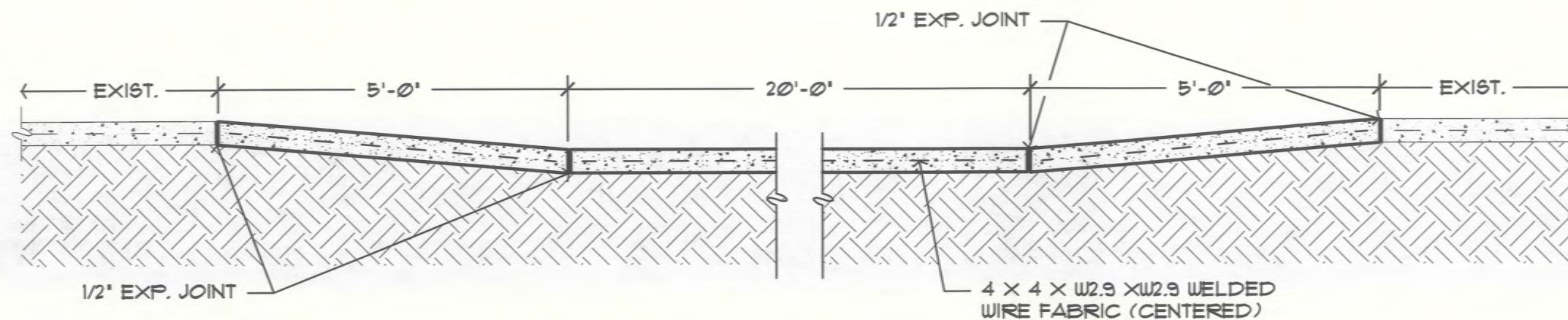
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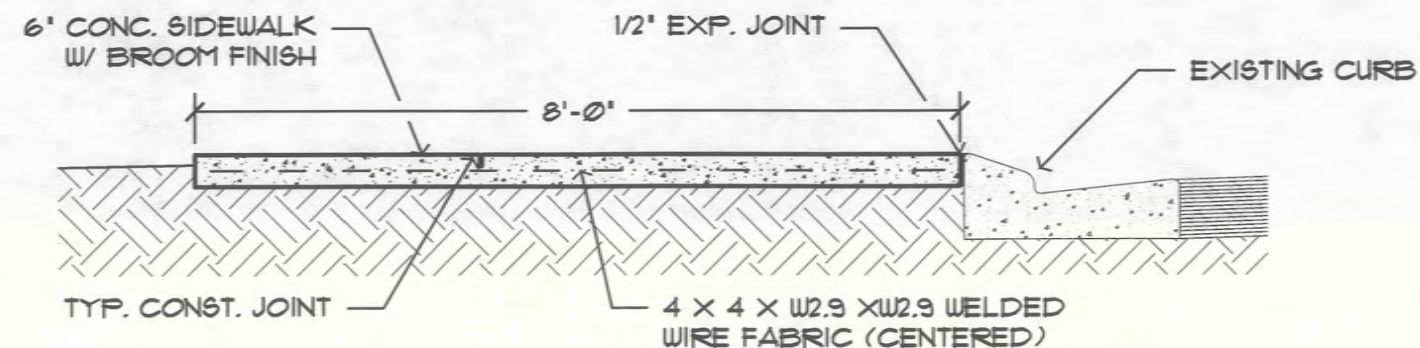
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1 TYPICAL SECTION
SCALE: 1/2" = 1'-0"



1 TYPICAL SECTION
SCALE: 1/2" = 1'-0"



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AR #0011946

CONDITION 10 SECTIONS

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
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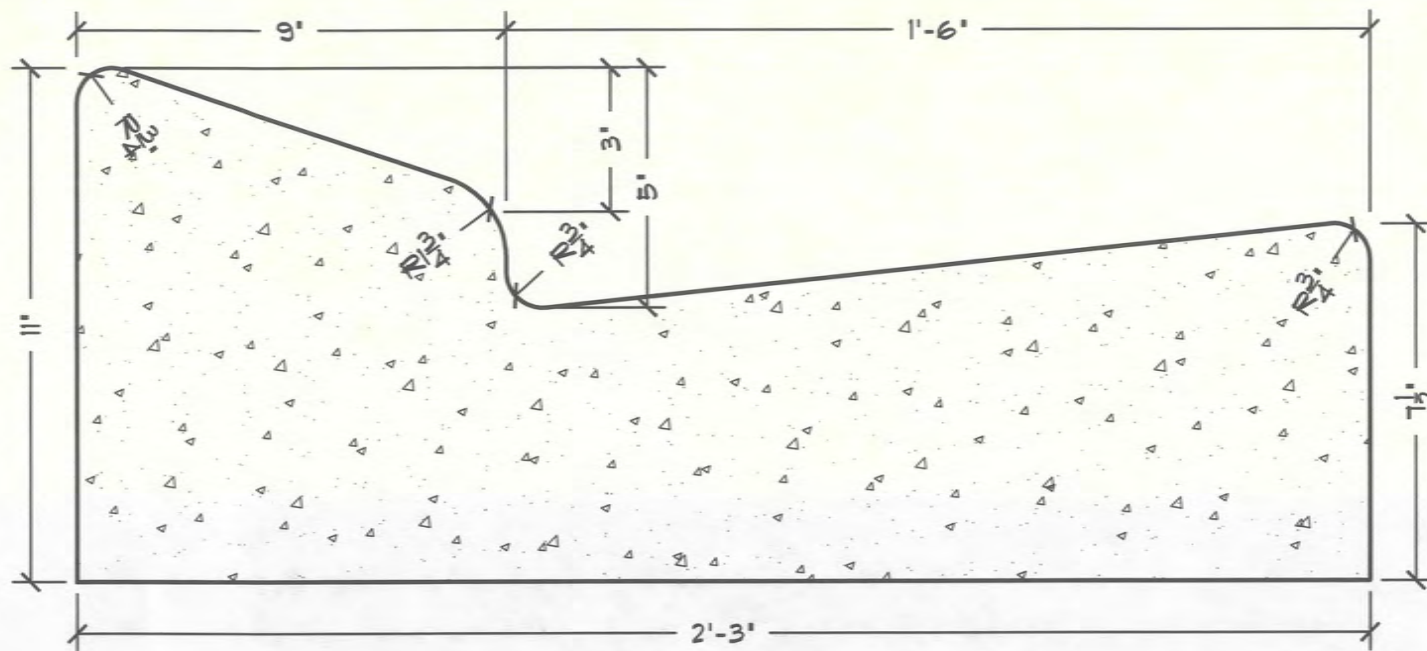
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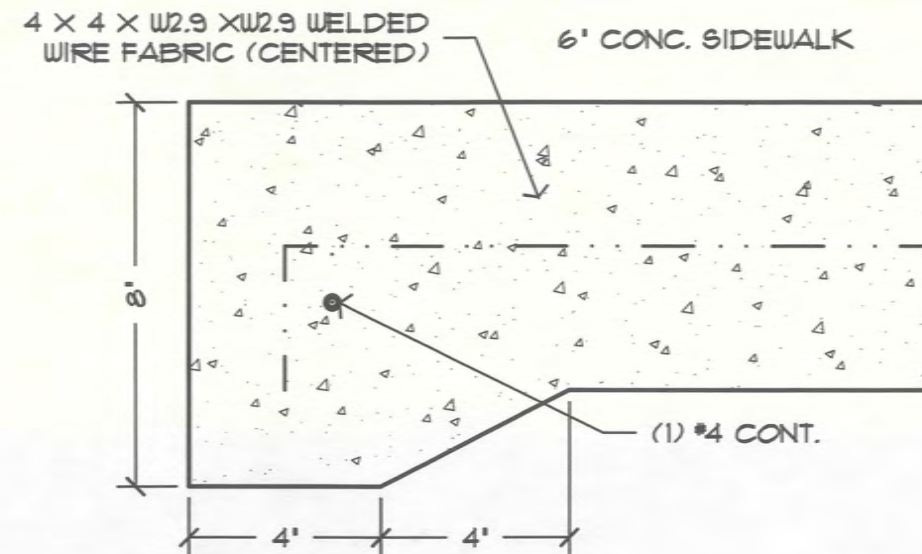
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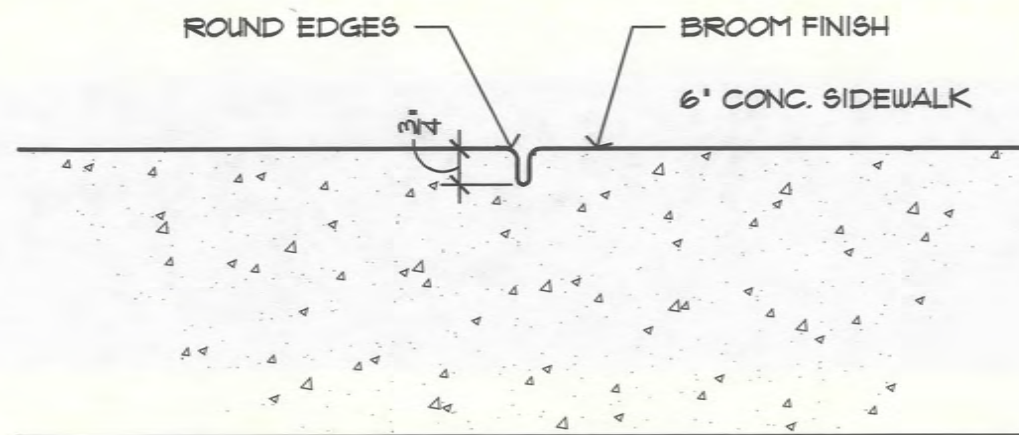
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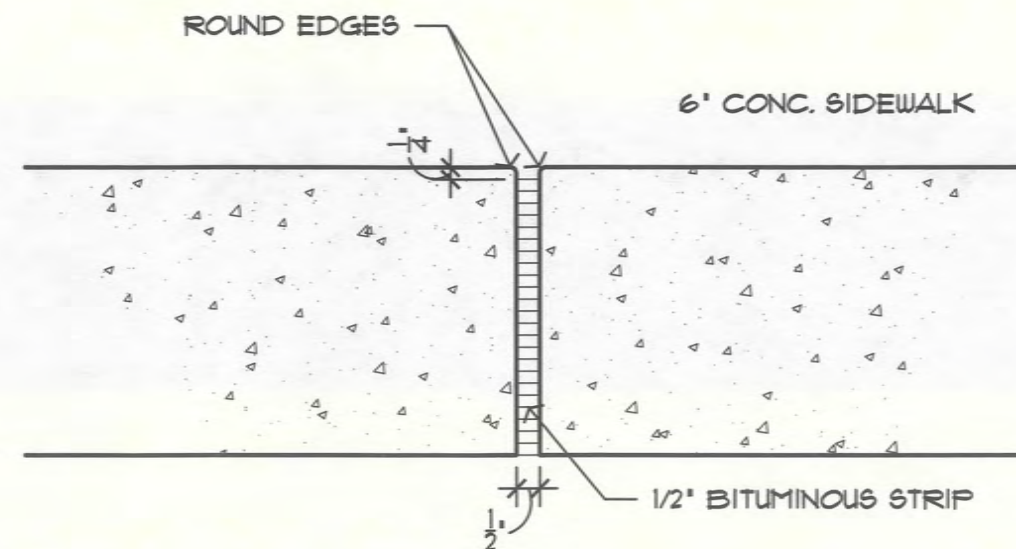
4 TYPE "E" CURB
SCALE: 3"=1'-0"



3 TYP. TURNDOWN SLAB
SCALE: 3"=1'-0"



2 TYP. CONSTRUCTION JOINT
SCALE: 3"=1'-0"



1 TYP. EXPANSION JOINT
SCALE: 3"=1'-0"



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5/24/13

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STANDARD DETAILS
ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
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MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT

ADA BOARDING PADS W/ BENCH SLABS

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COVER
ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
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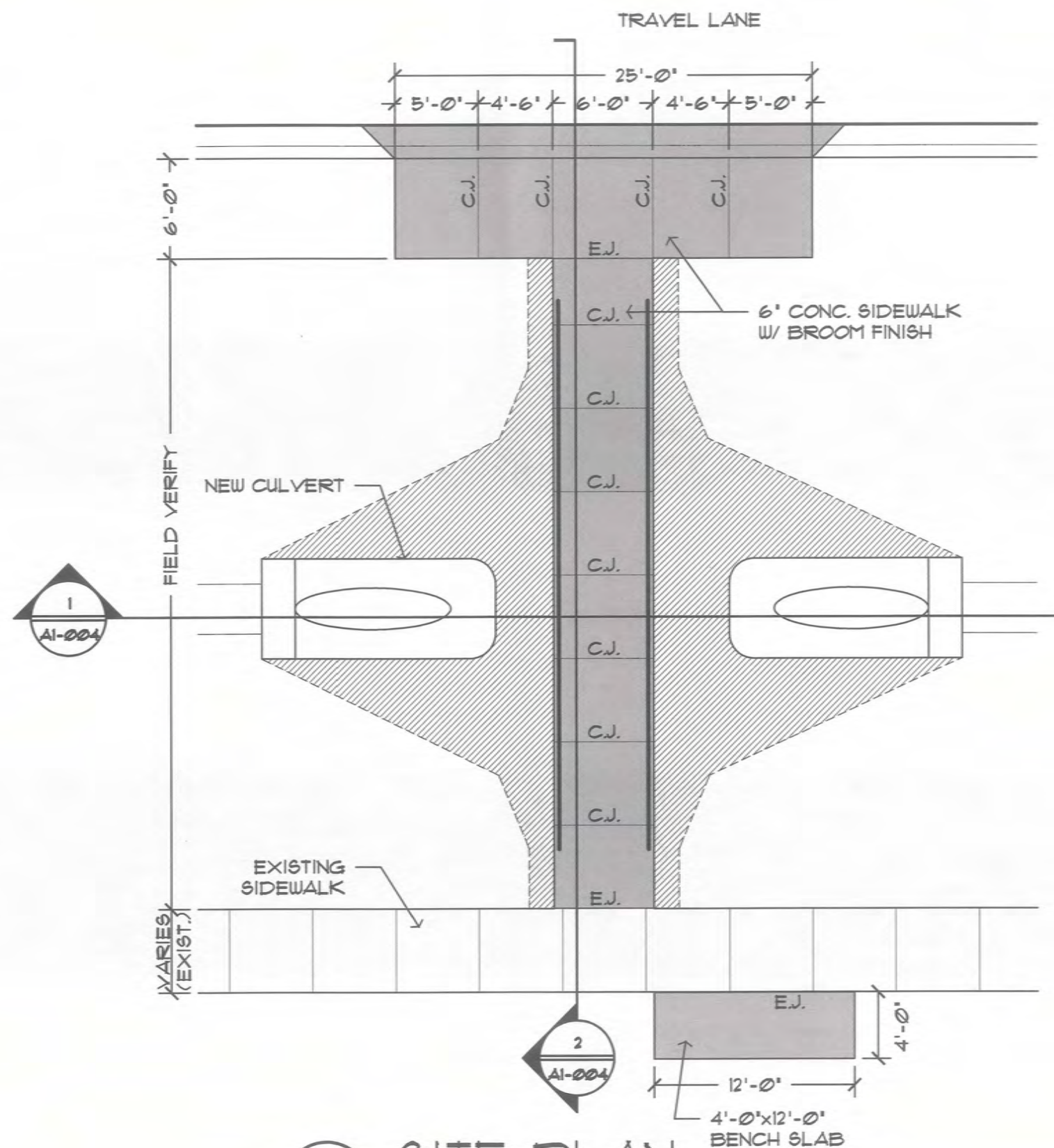
NEW CULVERT TO BE 30' DIAMETER R.C.P.,
ASTM C-76 CLASS III WALL B. R.C.P. LENGTH
TO BE APPROX. 36' INCLUDING MITERED ENDS.
PROVIDE MITERED END SECTIONS, SLOPE
PAVEMENT, PIPE GRATES, ETC. ALL IN
CONFORMANCE WITH FDOT STD. INDEX
DRAWING 273. SLOPE TO BE 4:1. SOLID
SOD ALL NEW SLOPES AND EXPOSED
DITCH BOTTOM. SLOPE BOTTOM OF NEW
CULVERT TO MATCH EXISTING DRAINAGE
DITCH SLOPE. - FIELD VERIFY

JOINTS @ 5'0" O.C. 3/4" DEEP.
EXPANSION JOINTS AS SHOWN ON PLANS.
SIDEWALK TO HAVE 1:50 CROSS SLOPE
& TO HAVE BROOM FINISH.

GRADES FROM EXISTING SIDEWALK TO SIDEWALK
MUST BE FIELD VERIFIED.

LEGEND:

	EXTENTS OF NEW SLAB (EXISTING CONDITIONS MAY VARY AND SHALL BE FIELD VERIFIED.)
--	---



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



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CONDITION 1 SITE PLAN

CONDITION 1 SITE PLAN

REVENUES

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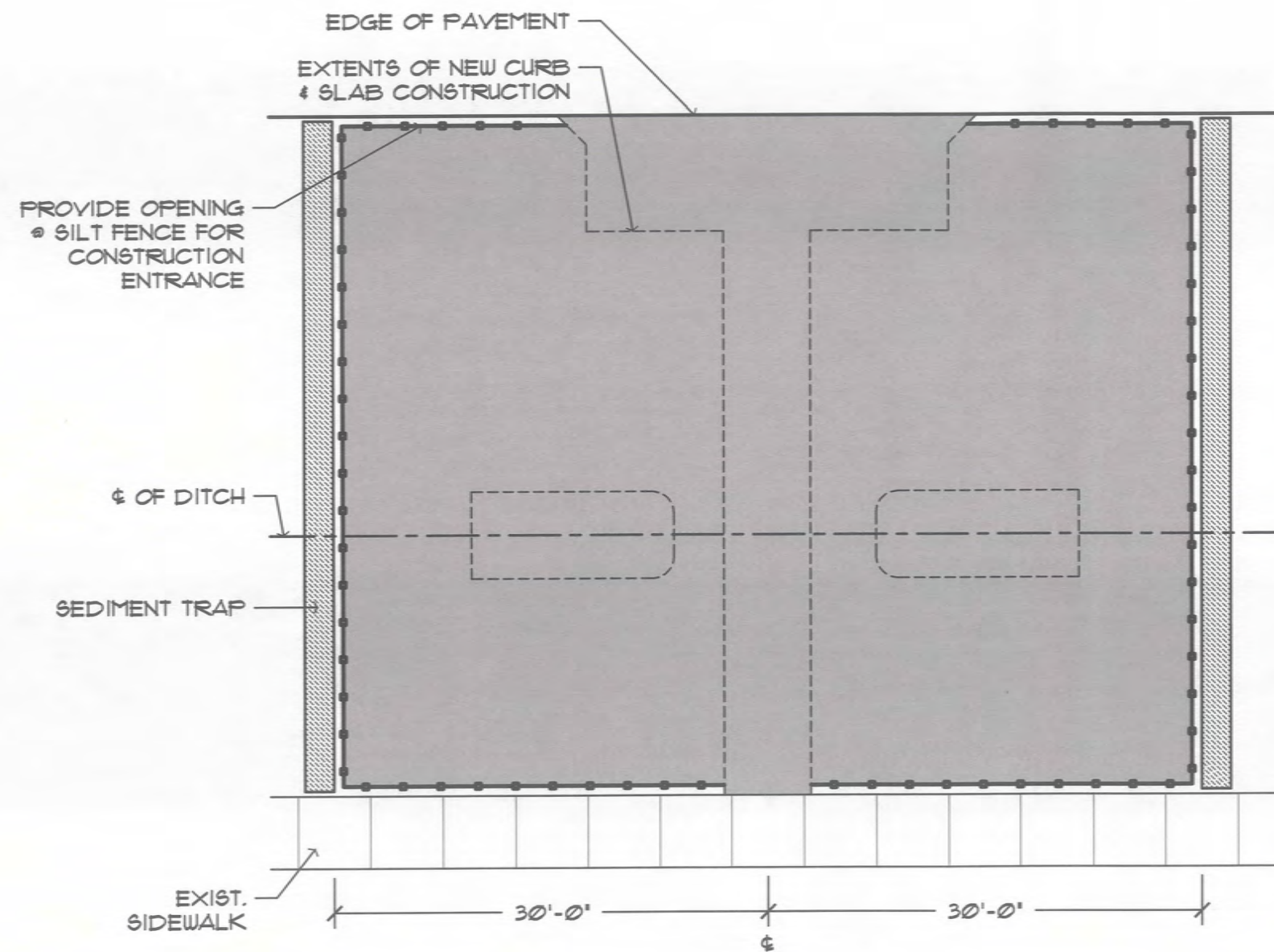
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A1 - 001

PROJECTED

BG13-07



LEGEND

- SILT FENCE
- STANDARD STRAW BALES
- AREA TO BE IMPACTED BY CONSTRUCTION

1 EROSION CONTROL PLAN
SCALE: 3/32" = 1'-0"



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AR #0011946

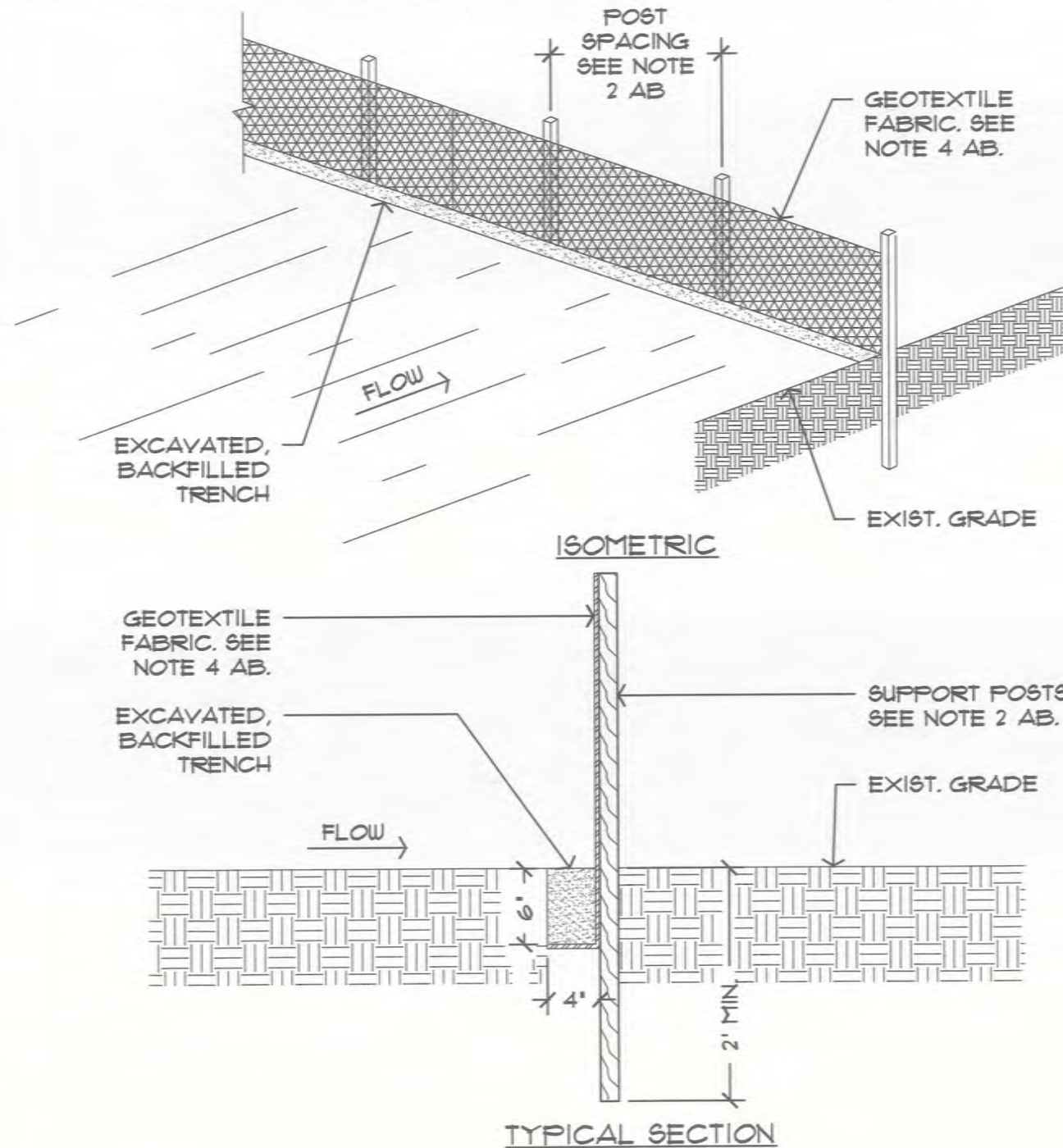
CONDITION 1 EROSION CONTROL PLAN

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
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PROJECT ID: BG13-07	

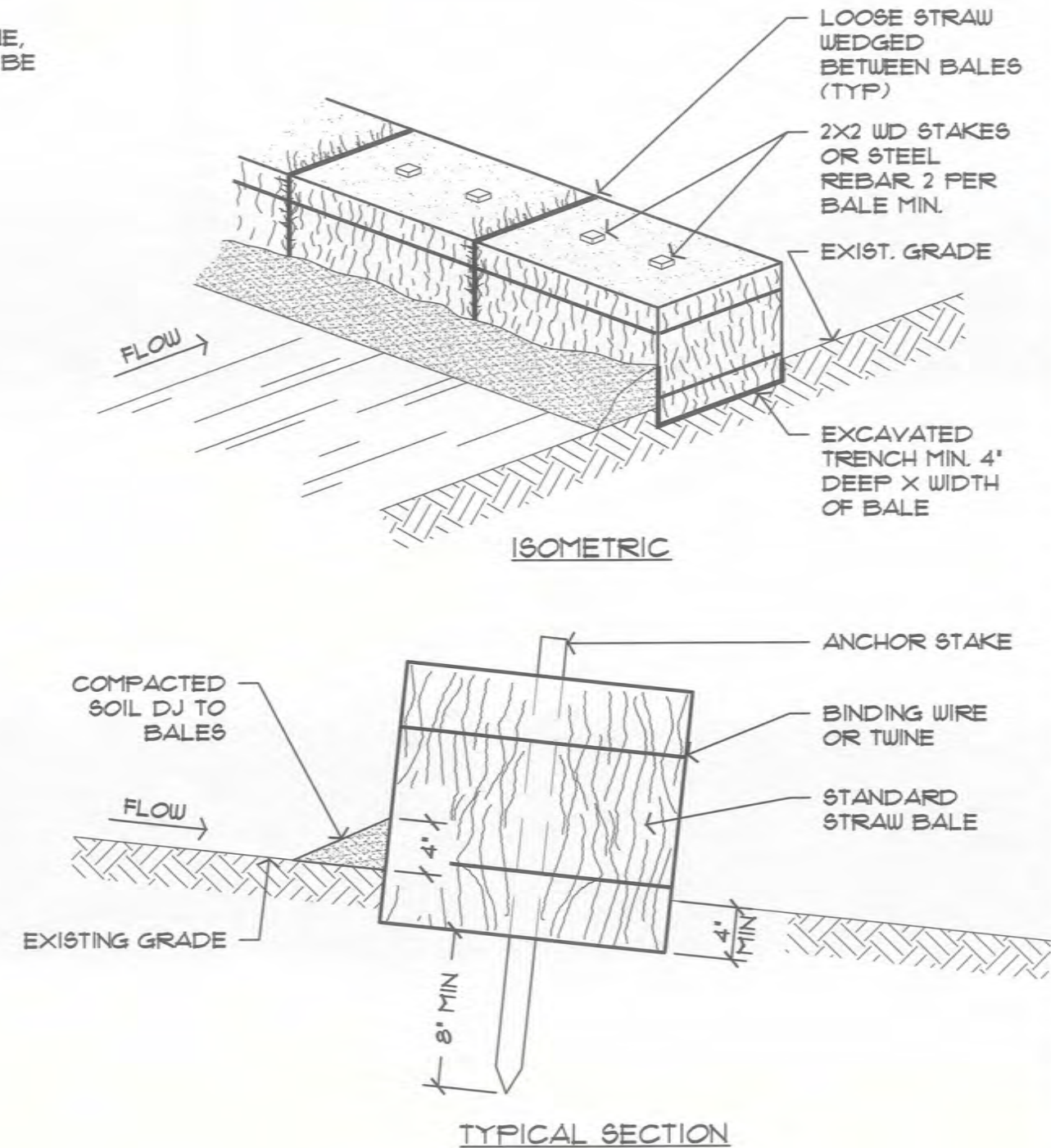
NOTES:

1. GEOTEXTILE FABRIC SHALL BE PLACED IN EXCAVATED TRENCH, BACKFILLED, & COMPACTED TO EXIST. GRADE.
2. WOODEN SUPPORT POSTS SHALL BE P.T. 1 1/8" X 1 1/8" X 4'-0". STEEL POSTS SHALL BE 5'-0" STUDDED 'TEE' OR 'U' TYPE. POSTS SHALL BE 8'-0" O.C. IF WOVEN FABRIC & 3'-0" FOR NON-WOVEN FABRIC.
3. FABRIC FENCE SHALL BE ATTACHED DIRECTLY TO UP-SLOPE SIDE OF POSTS.
4. FOR WD. POSTS, ATTACH FABRIC W/ 1/2" STAPLES @ TOP, MIDDLE & 2' AB. GRADE. FOR STEEL POSTS, ATTACH FABRIC W/ WIRE FASTENERS OR 50 LB PLASTIC TIE STRAPS.
5. GEOTEXTILE FABRIC SHALL CONSIST OF WOVEN OR NON-WOVEN POLYESTER, POLYPROPYLENE, STABILIZED NYLON, POLYETHYLENE, OR POLYVINYLIDENE CHLORIDE. NON-WOVEN FABRIC MAY BE NEEDLE PUNCHED, HEAT BOUNDED, RESIN BONDED, OR COMBINATIONS THEREOF.



NOTES:

1. TURN STRAW BALE ENDS UP 1'-0" MIN. UP-SLOPE AVERT.
2. STRAW BALES SHALL BUTT TOGETHER AS CLOSE AS POSSIBLE
3. AFTER INSTALLATION OF FIRST BALE, THE FIRST STAKE OF THE NEXT BALE SHALL BE DRIVEN TOWARDS THE PREVIOUS BALE (TYPICAL FOR REMAINDER OF BALES)



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Signature
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RICHARD S. BACON, AIA
AR #0011946

CONDITION 1 TYPICAL EROSION CONTROL
DETAILS

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
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2/2/13

RICHARD S. BACON, AIA
AR #0011946

CONDITION 1 SECTION
ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
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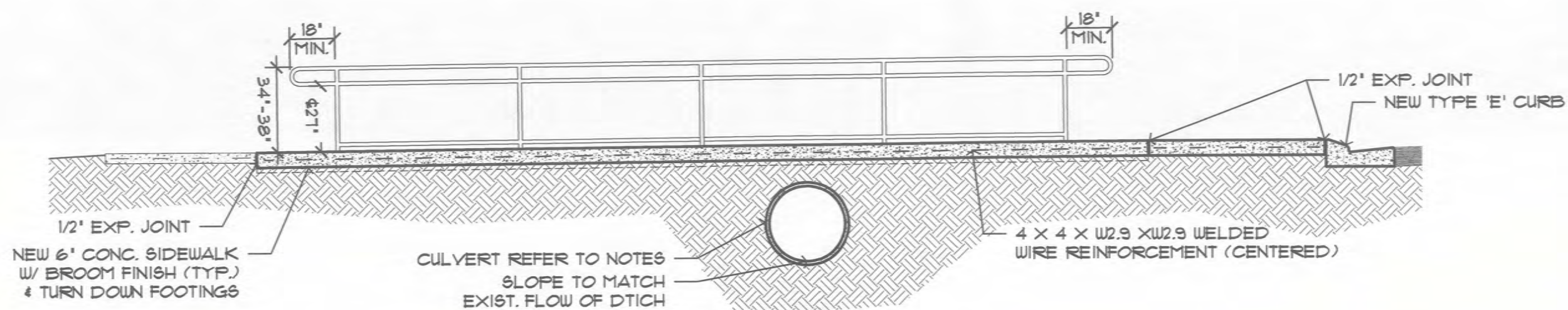
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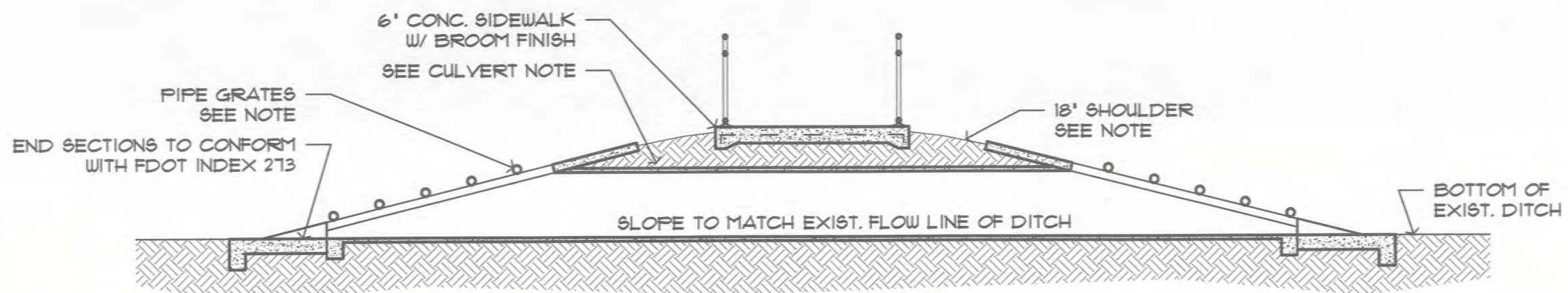
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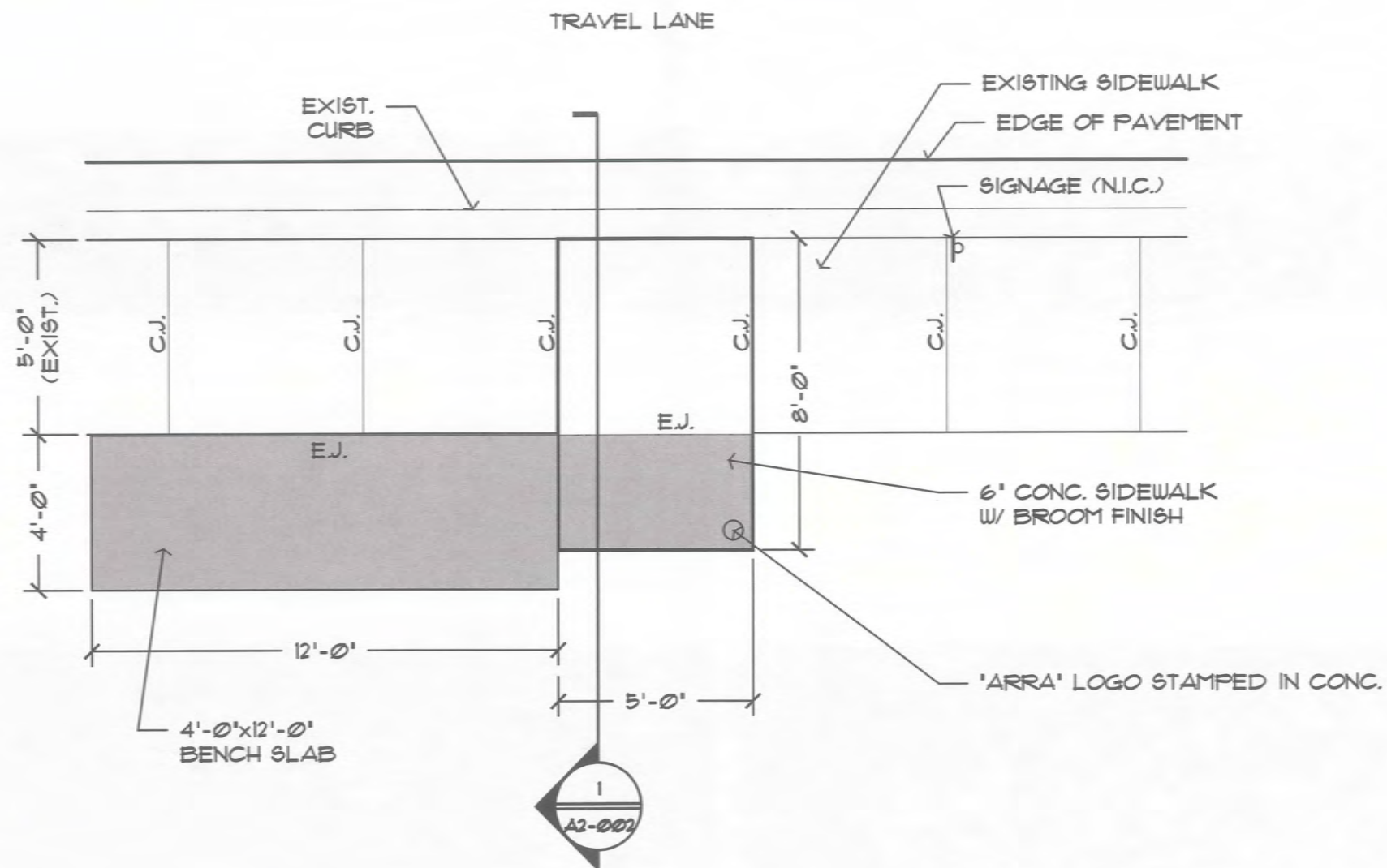
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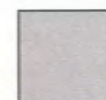
2 SECTION
SCALE: 1/4"=1'-0"



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



SLAB NOTES:
 JOINTS @ 5'-0" O.C. 3/4" DEEP.
 EXPANSION JOINTS AS SHOWN ON PLANS.
 SIDEWALK TO HAVE 1:50 CROSS SLOPE
 & TO HAVE BROOM FINISH.
LEGEND:

 EXTENTS OF NEW SLAB
 (EXISTING CONDITIONS MAY VARY
 AND SHALL BE FIELD VERIFIED.)

1 **SITE PLAN**
 SCALE: 1/4" = 1'-0"



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Richard S. Bacon
 7/24/13

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CONDITION 2 SITE PLAN
 ADA BOARDING PAD PROJECT
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AR #0011946

CONDITION 2 SECTIONS

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MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
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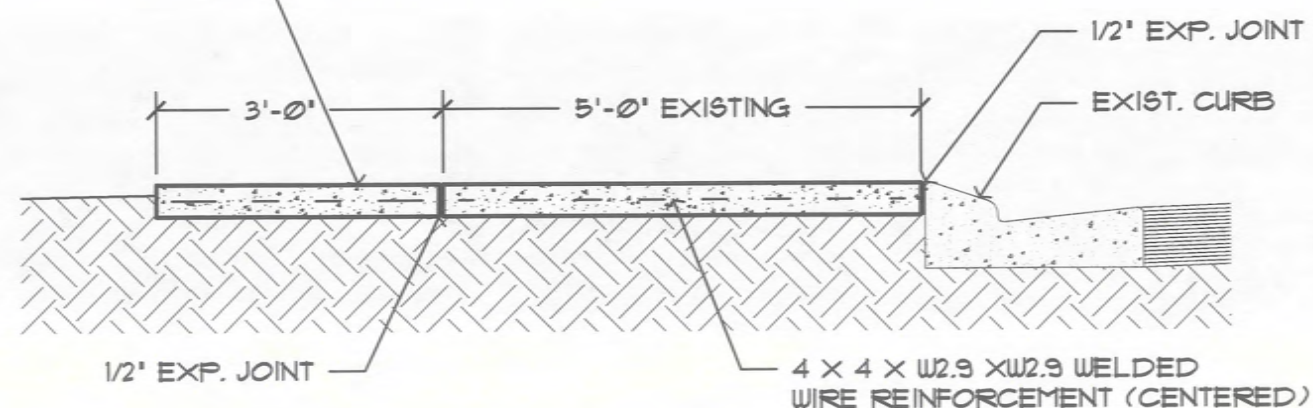
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6" CONC. SIDEWALK
W/ BROOM FINISH

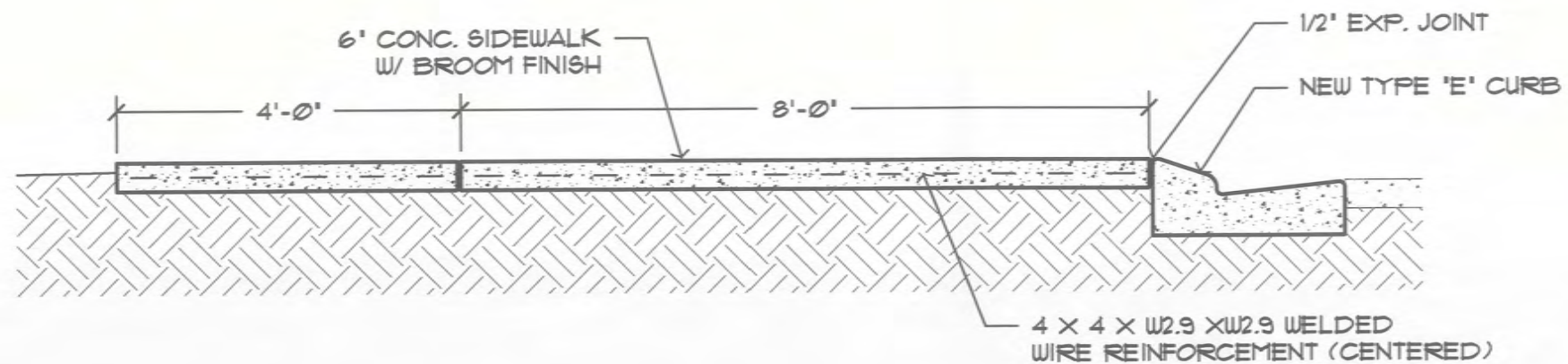


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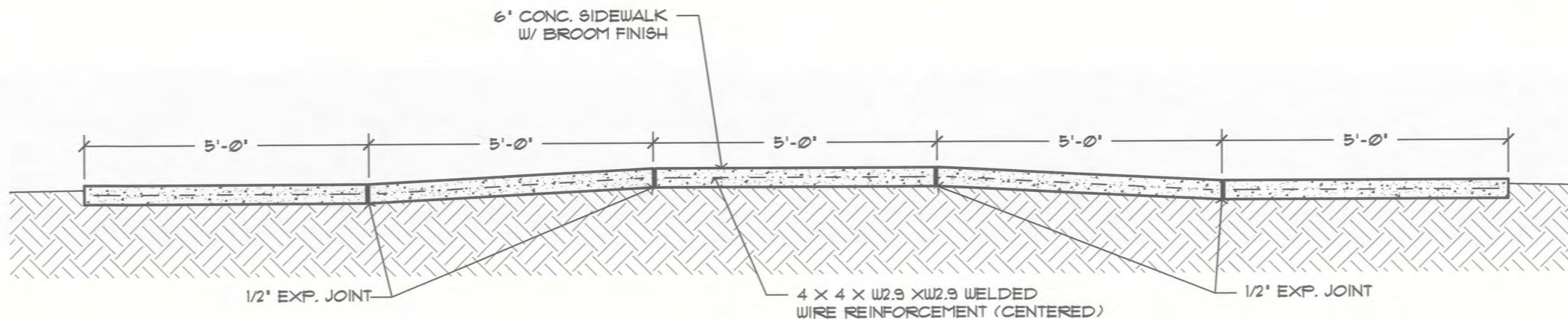
SECTION

SCALE: 1/2" = 1'-0"

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



2 SECTION
SCALE: 1/2"=1'-0"



1 SECTION
SCALE: 1/2"=1'-0"



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Richard S. Bacon
5/20/13

RICHARD S. BACON, AIA
AR #0011946

CONDITION 3 SECTIONS

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
BRADENTON, FLORIDA 34208

REVISIONS

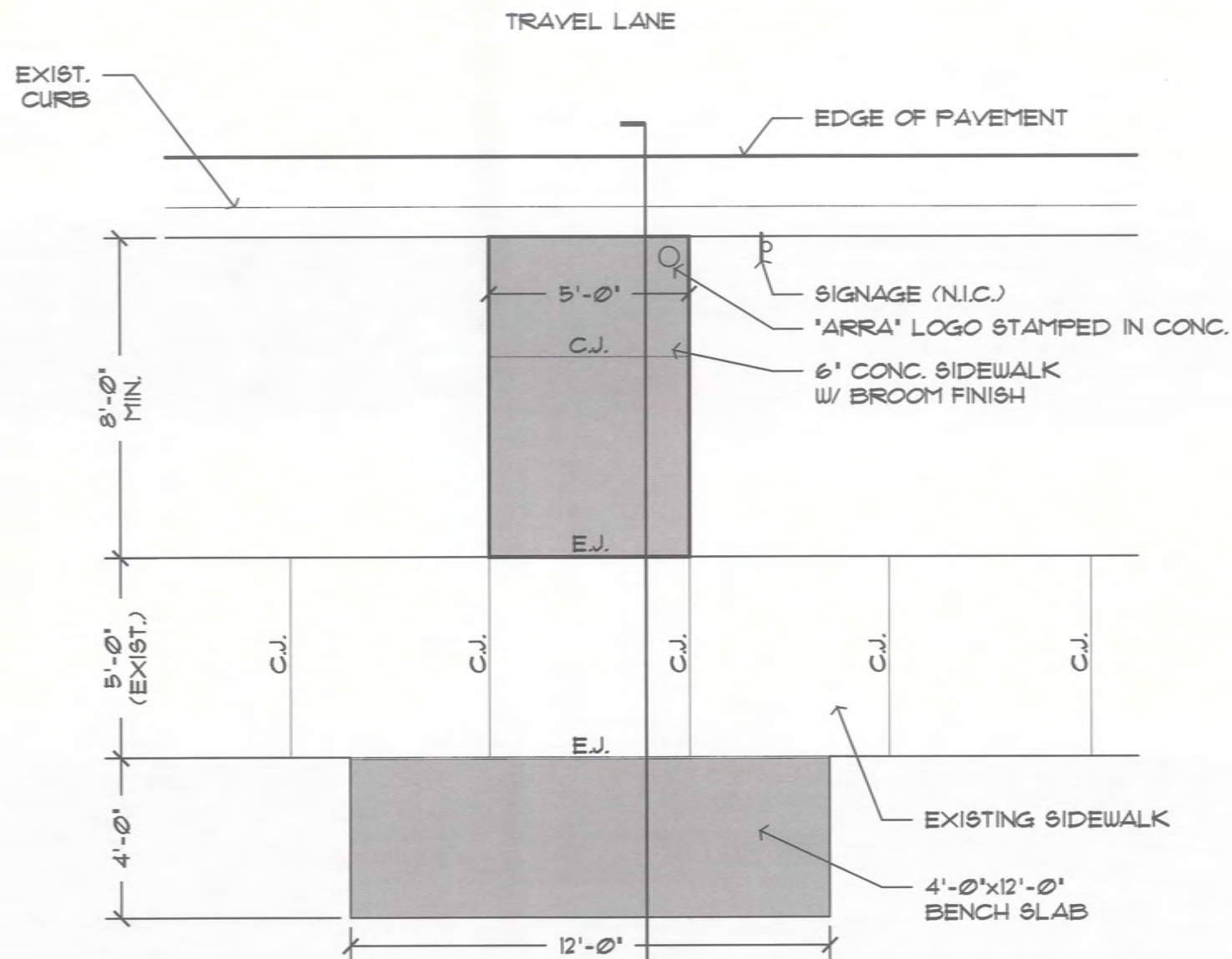
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JRB


PRINTED DATE:
May 16, 2013

SHEET NO:
A3 - 002

PROJECT NO:
BG13-07



SLAB NOTES:
 JOINTS @ 5'-0" O.C. 3/4" DEEP.
 EXPANSION JOINTS AS SHOWN ON PLANS.
 SIDEWALK TO HAVE 1:50 CROSS SLOPE
 & TO HAVE BROOM FINISH.
LEGEND:

 EXTENTS OF NEW SLAB
 (EXISTING CONDITIONS MAY VARY
 AND SHALL BE FIELD VERIFIED.)

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



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Richard S. Bacon
 7/26/13

RICHARD S. BACON, AIA
 AR #0011946

CONDITION 4 SITE PLAN

ADA BOARDING PAD PROJECT
 MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
 1108 26th AVENUE EAST
 BRADENTON, FLORIDA 34208

REVISIONS

1
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PRINTED DATE:
 Jul 18, 2013

SHEET ID:
A4 - 001

PROJECT ID:
 BG13-07



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5/29/13

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AR #0011946

CONDITION 4 SITE PLAN

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
BRADENTON, FLORIDA 34208

REVISIONS

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PRINTED DATE

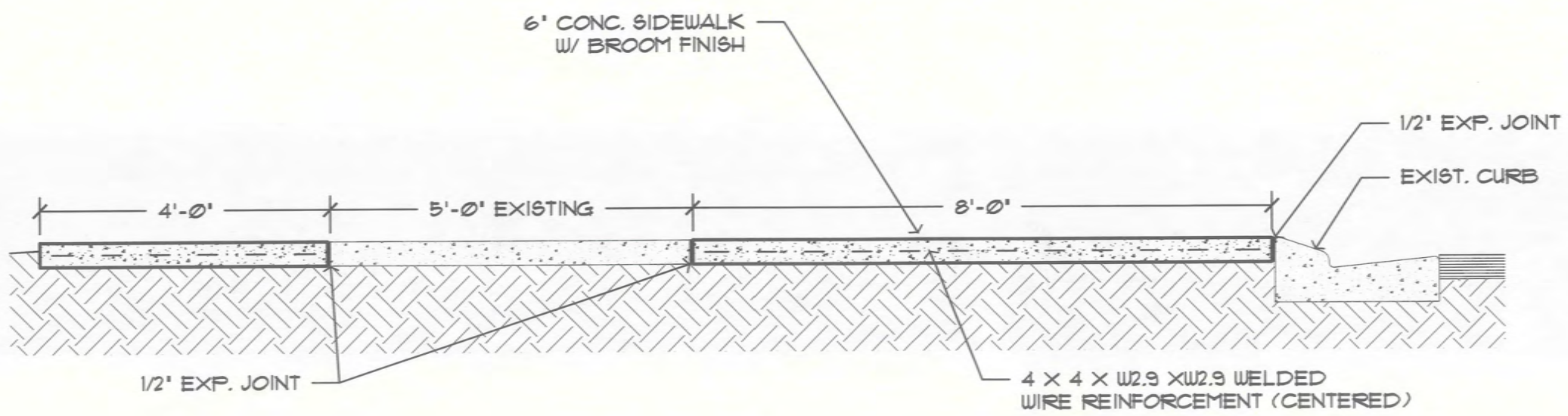
May 16, 2013

SHEET NO.

A4 - 002

PROJECT NO.

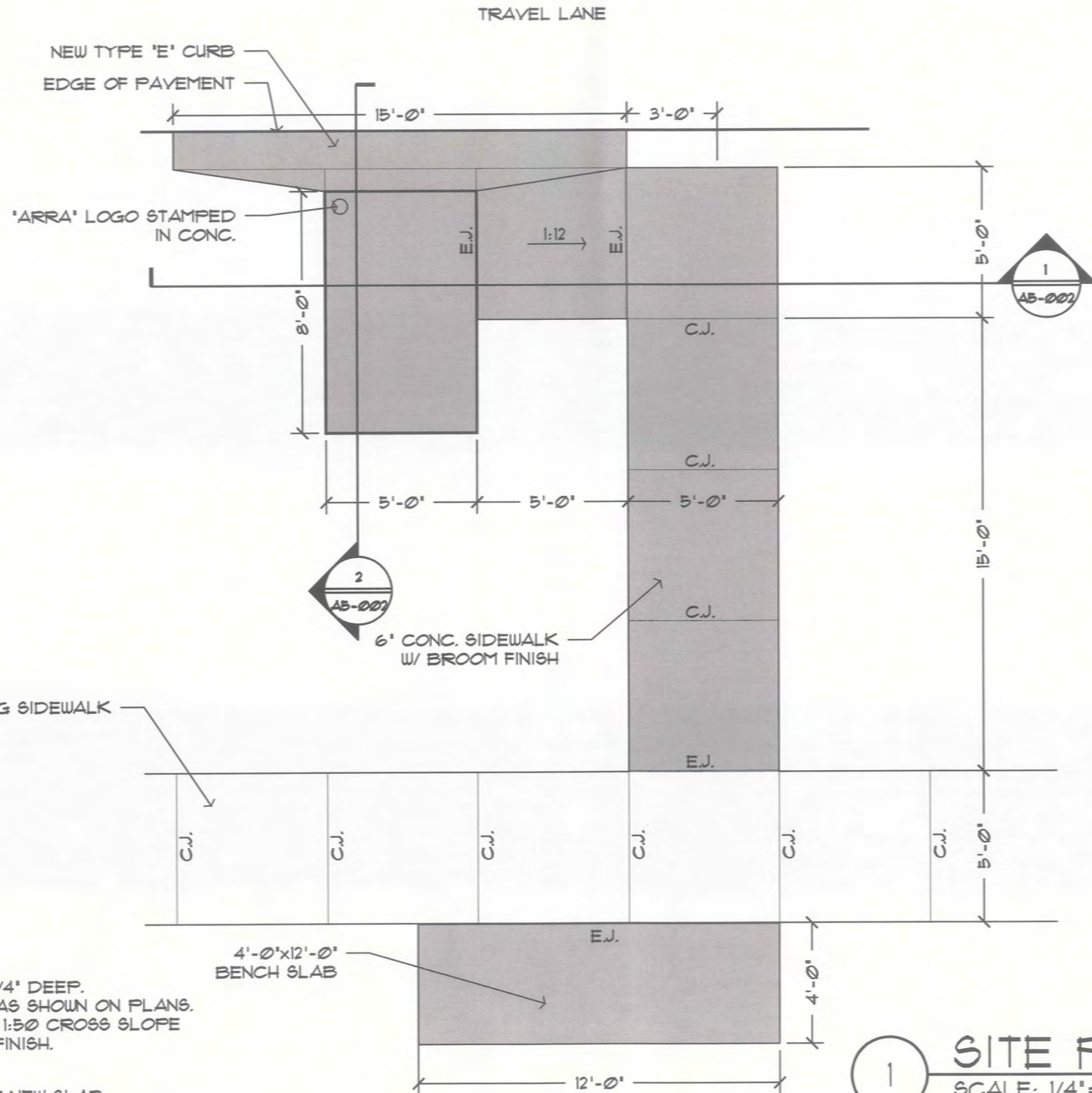
BG13-07



1


SECTION

SCALE: 1/2" = 1'-0"



SLAB NOTES:
 JOINTS @ 5'-0" O.C. 3/4" DEEP.
 EXPANSION JOINTS AS SHOWN ON PLANS.
 SIDEWALK TO HAVE 1:50 CROSS SLOPE
 & TO HAVE BROOM FINISH.

LEGEND:

 EXTENTS OF NEW SLAB
 (EXISTING CONDITIONS MAY VARY
 AND SHALL BE FIELD VERIFIED.)

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



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Richard S. Bacon, AIA
 08/20/13

RICHARD S. BACON, AIA
 AR #0011946

CONDITION 5 SITE PLAN

ADA BOARDING PAD PROJECT
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 BRADENTON, FLORIDA 34208

REVISIONS

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PRINTED DATE:

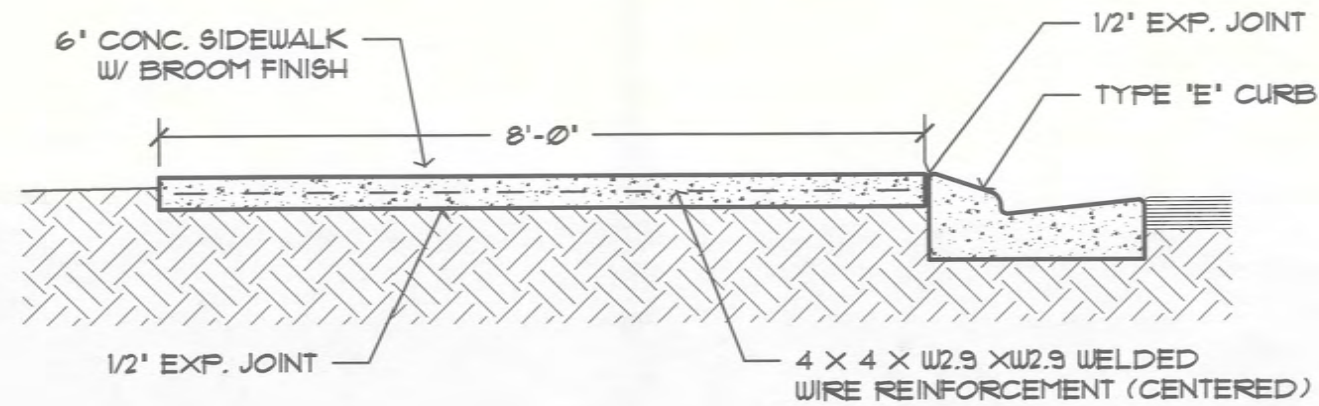
May 16, 2013

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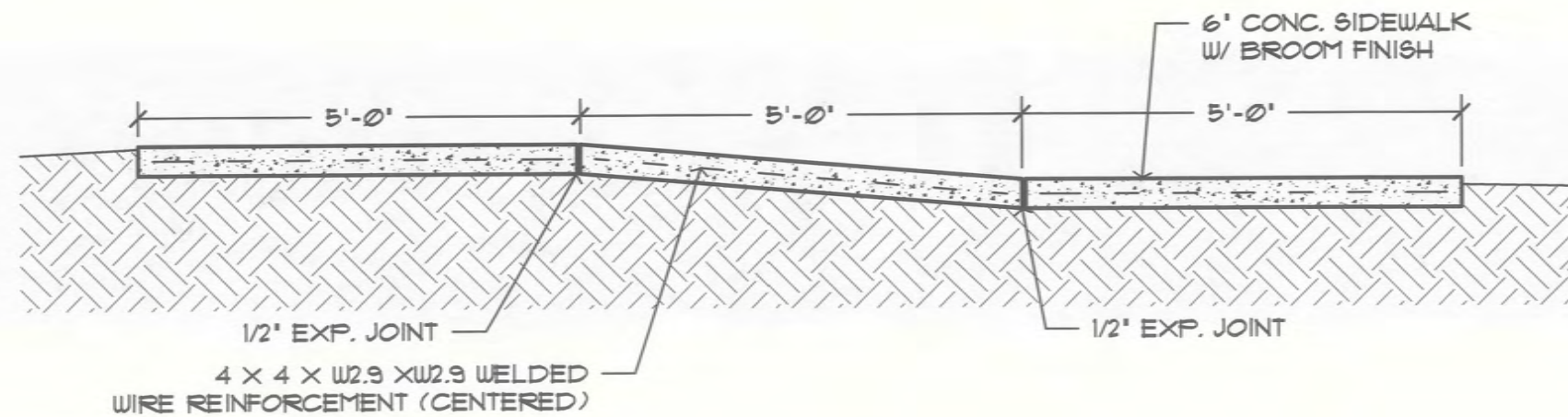
A5 - 001

PROJECT ID:

BG13-07



2 SECTION
SCALE: 1/2" = 1'-0"



1 SECTION
SCALE: 1/2" = 1'-0"



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5/20/13

RICHARD S. BACON, AIA
AR #0011946

CONDITION 5 SECTIONS

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
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BRADENTON, FLORIDA 34208

PREVIOUS

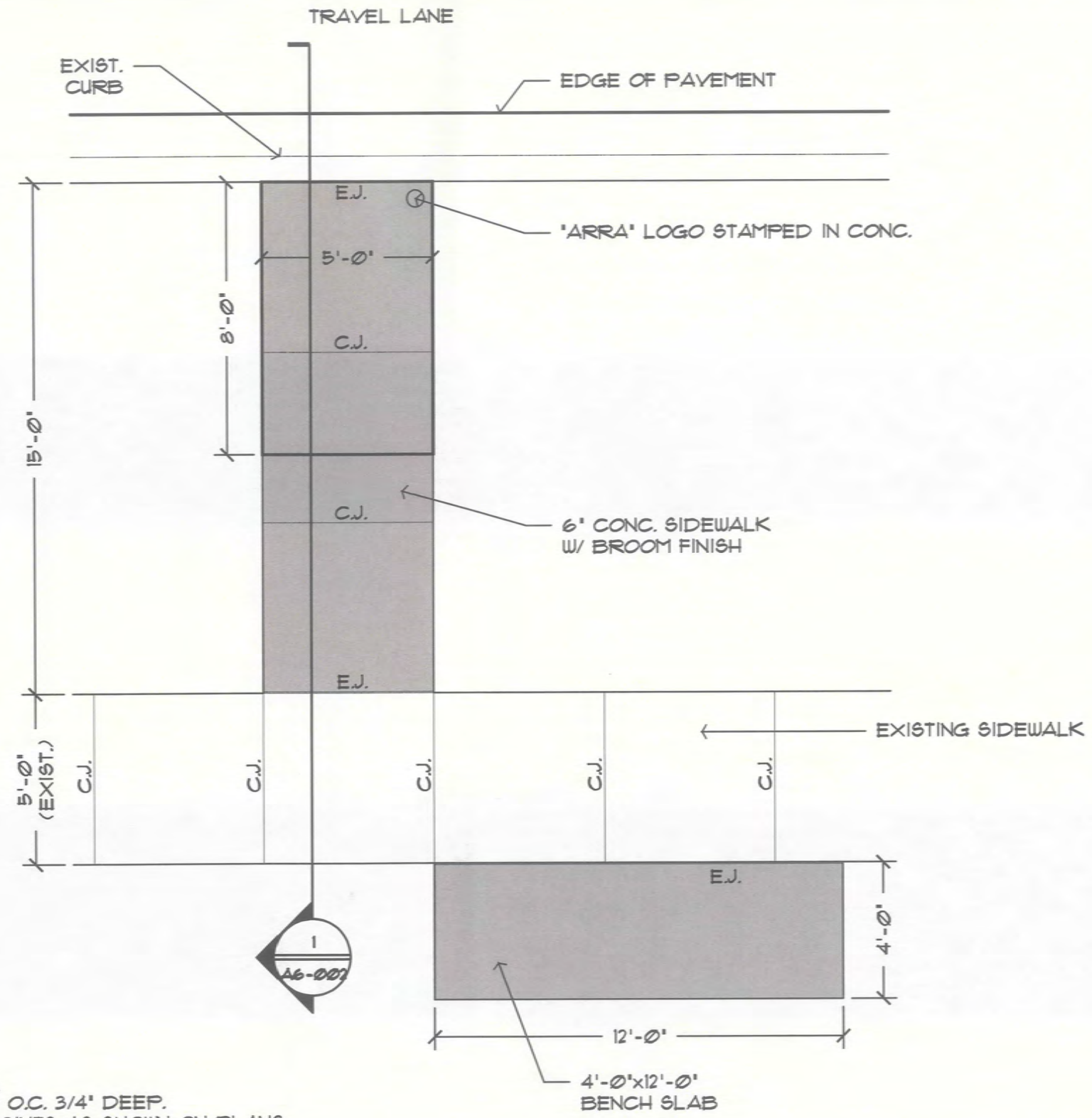
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A5 - 002

PROJECT NO:
BG13-07



SLAB NOTES:
 JOINTS @ 5'-0" O.C. 3/4" DEEP.
 EXPANSION JOINTS AS SHOWN ON PLANS.
 SIDEWALK TO HAVE 1:50 CROSS SLOPE
 & TO HAVE BROOM FINISH.
LEGEND:
 [Shaded Box] EXTENTS OF NEW SLAB
 (EXISTING CONDITIONS MAY VARY
 AND SHALL BE FIELD VERIFIED.)

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



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MANATEE COUNTY
 FLORIDA



RICHARD S. BACON, AIA
 AR #0011946

CONDITION 6 SITE PLAN

ADA BOARDING PAD PROJECT
 MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
 1108 26th AVENUE EAST
 BRADENTON, FLORIDA 34208

REVISIONS	
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SHEET ID:
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PROJECT ID:
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5/20/13

RICHARD S. BACON, AIA
AR #0011946

CONDITION 6 SECTIONS

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
BRADENTON, FLORIDA 34208

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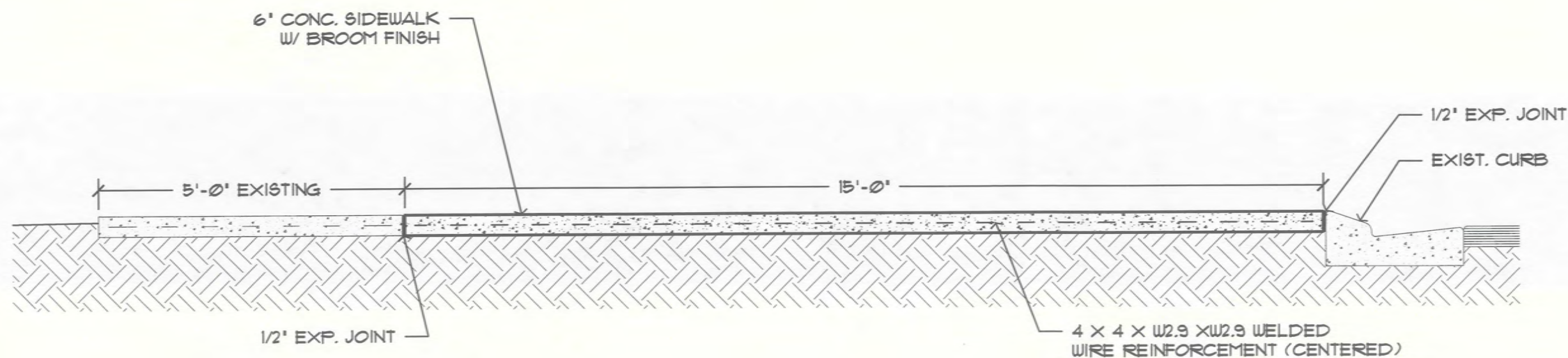
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PRINTED DATE
May 16, 2013

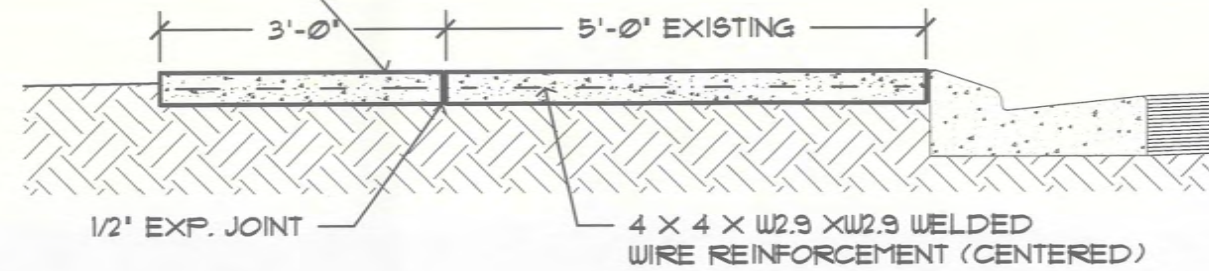
SHEET NO.
A6 - 002

PROJECT NO.
BG13-07



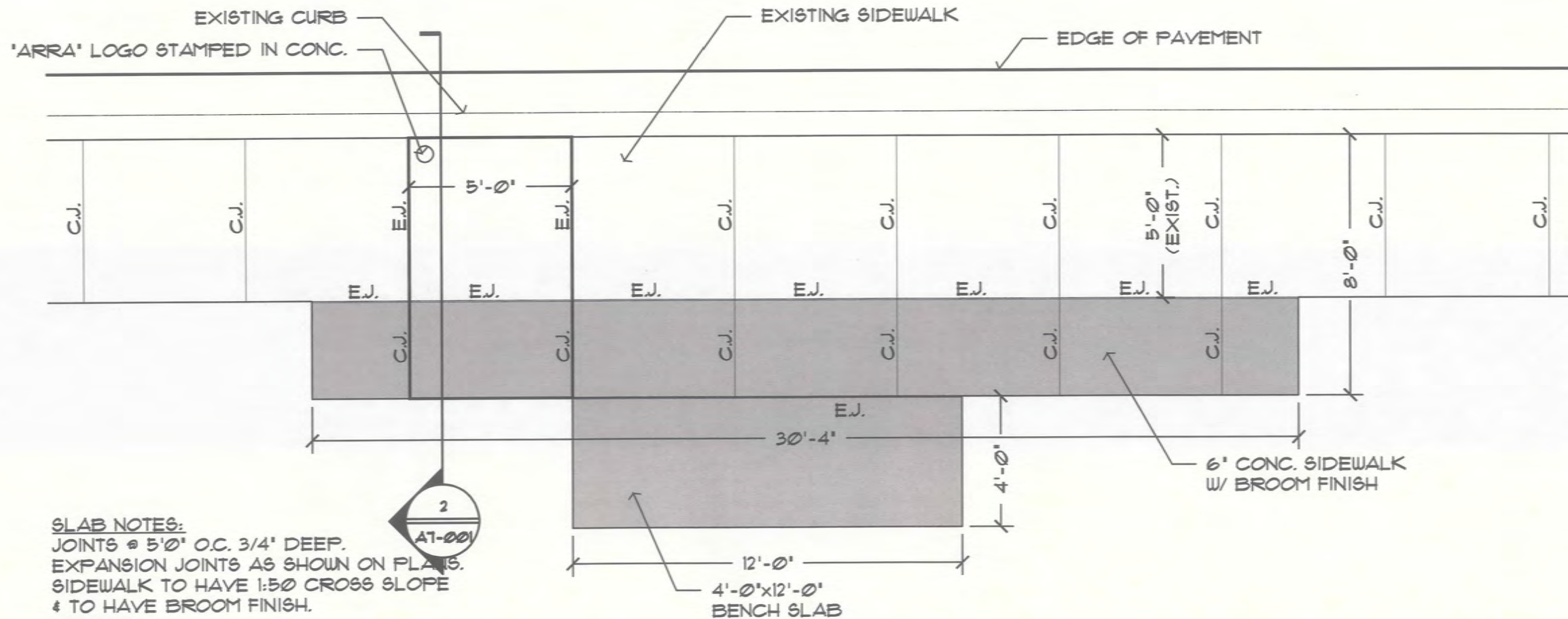
1 SECTION
SCALE: 1/2" = 1'-0"

6" CONC. SIDEWALK
W/ BROOM FINISH



2 SECTION

SCALE: 1/2" = 1'-0"



SLAB NOTES:
JOINTS @ 5'-0" O.C. 3/4" DEEP.
EXPANSION JOINTS AS SHOWN ON PLANS.
SIDEWALK TO HAVE 1:50 CROSS SLOPE
& TO HAVE BROOM FINISH.
LEGEND:

EXTENTS OF NEW SLAB
(EXISTING CONDITIONS MAY VARY
AND SHALL BE FIELD VERIFIED.)

1 SITE PLAN

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



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Richard S. Bacon, AIA
5/16/13

RICHARD S. BACON, AIA
AR #0011946

CONDITION 7 SITE PLAN & SECTION

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
BRADENTON, FLORIDA 34208

REVISIONS

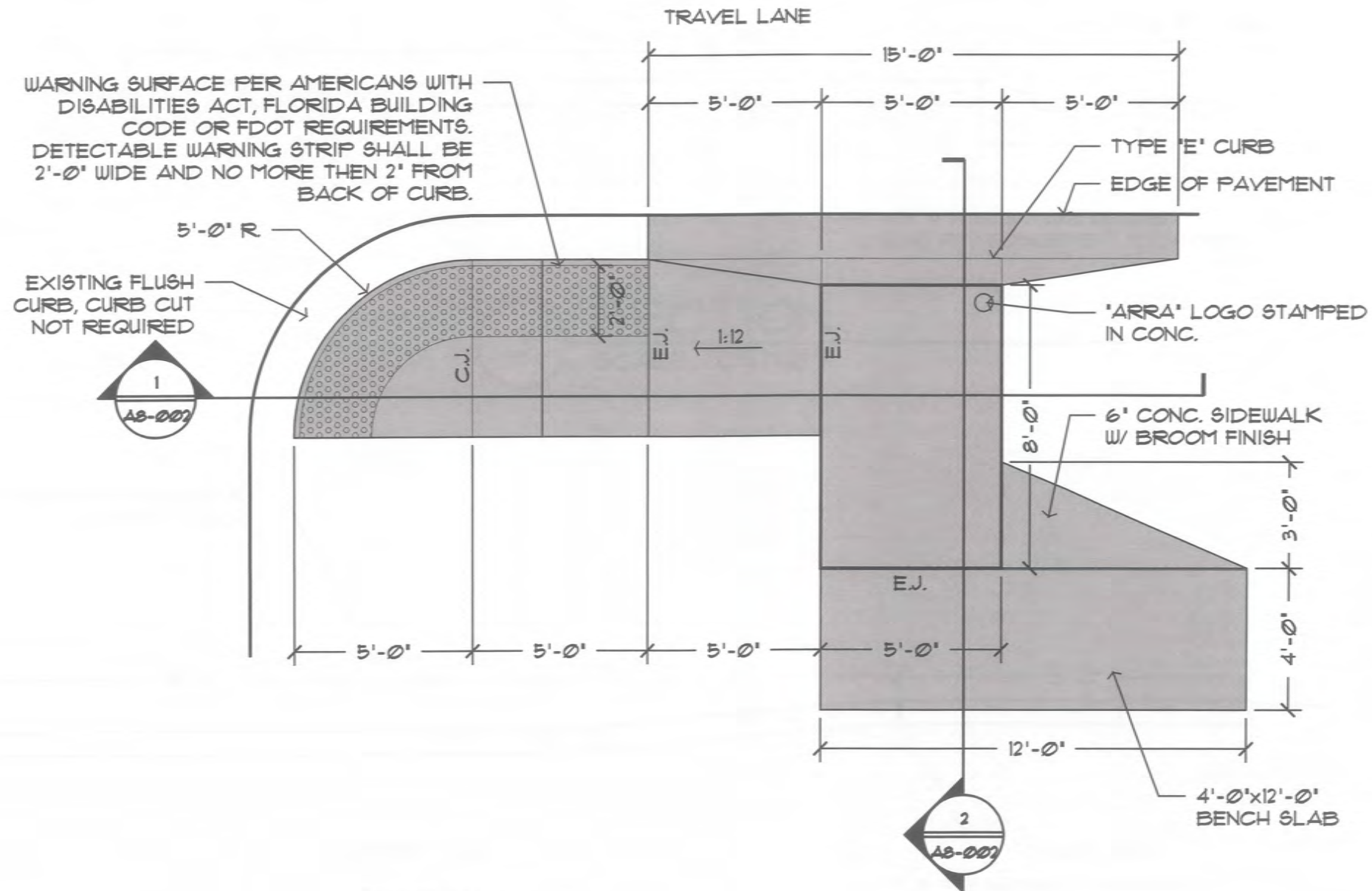
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SHEET ID:
A7 - 001

PROJECT ID:
BG13-07



SLAB NOTES:
 JOINTS @ 5'-0" O.C. 3/4" DEEP.
 EXPANSION JOINTS AS SHOWN ON PLANS.
 SIDEWALK TO HAVE 1:50 CROSS SLOPE
 & TO HAVE BROOM FINISH.
LEGEND:

EXTENTS OF NEW SLAB
 (EXISTING CONDITIONS MAY VARY
 AND SHALL BE FIELD VERIFIED.)

1 **SITE PLAN**
 SCALE: 1/4" = 1'-0"



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12/5/13

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 AR #0011946

CONDITION 8 SITE PLAN

ADA BOARDING PAD PROJECT
 MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
 1108 26th AVENUE EAST
 BRADENTON, FLORIDA 34208

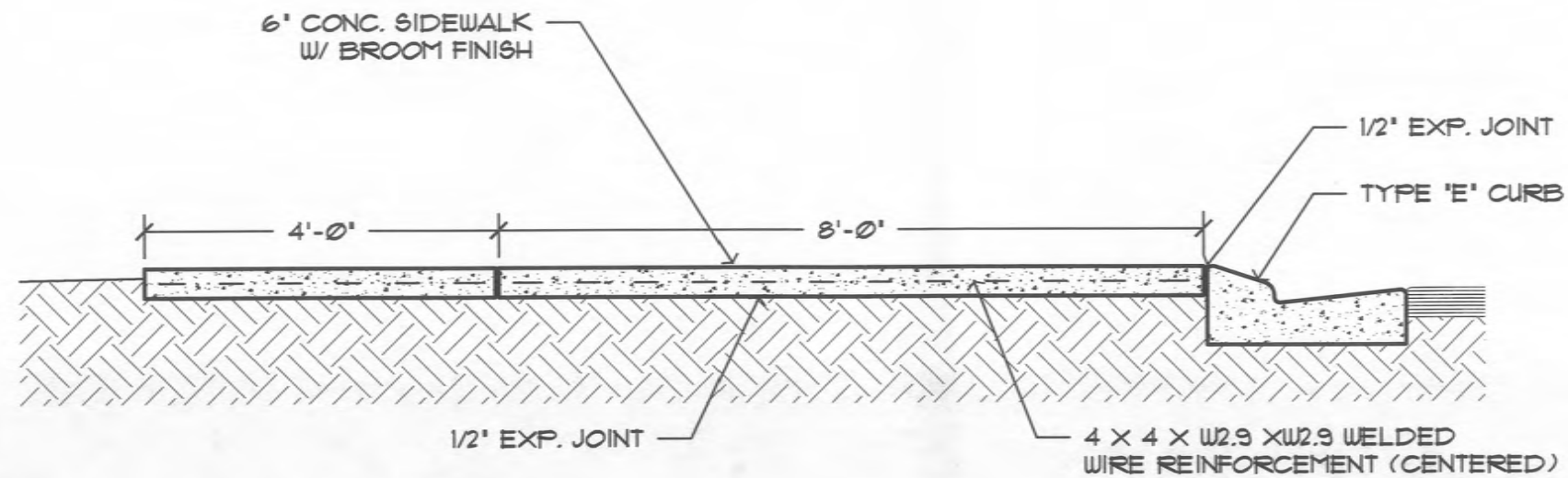
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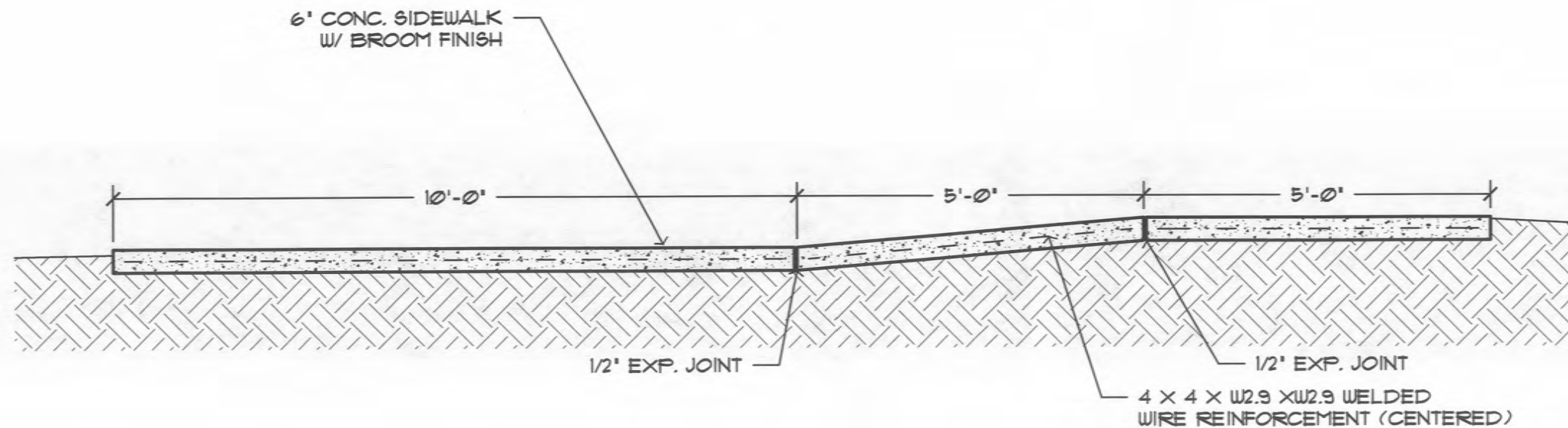
PRINTED DATE:
 May 16, 2013

SHEET ID:
A8 - 001

PROJECT ID:
 BG13-07



2 SECTION
SCALE: 1/2" = 1'-0"



1 SECTION
SCALE: 1/2" = 1'-0"



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RICHARD S. BACON, AIA
AR #0011946

CONDITION 8 SECTIONS

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
BRADENTON, FLORIDA 34208

REVISIONS

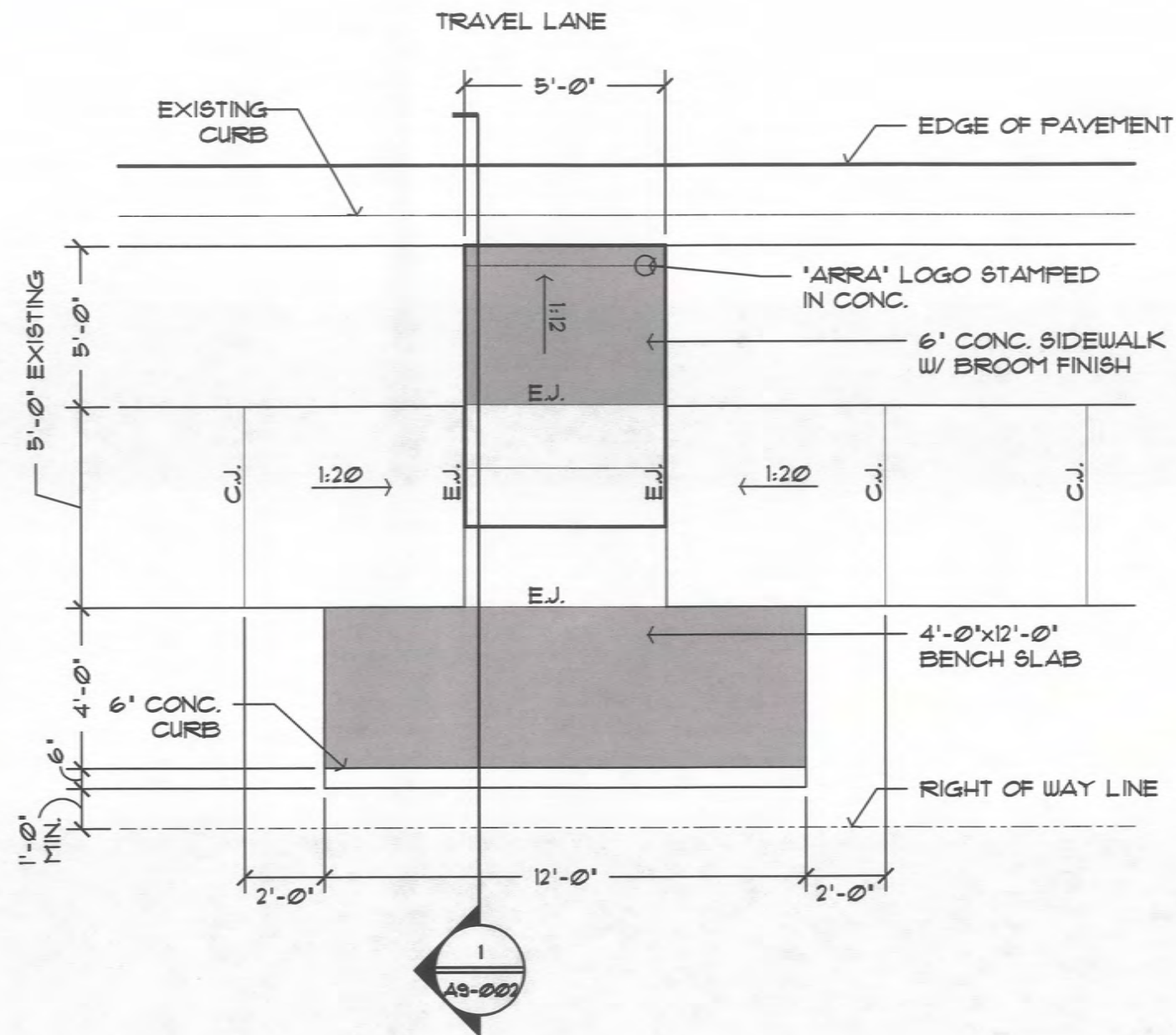
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DESIGNED BY:
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PRINTED DATE:
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SHEET ID:
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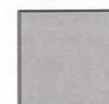
PROJECT ID:
BG13-07



SLAB NOTES:

JOINTS @ 5'-0" O.C. 3/4" DEEP.
EXPANSION JOINTS AS SHOWN ON PLANS.
SIDEWALK TO HAVE 1:50 CROSS SLOPE
& TO HAVE BROOM FINISH.

LEGEND:



EXTENTS OF NEW SLAB
(EXISTING CONDITIONS MAY VARY
AND SHALL BE FIELD VERIFIED.)



SITE PLAN

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



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5/20/13

RICHARD S. BACON, AIA
AR #0011946

CONDITION 9 SITE PLAN

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
BRADENTON, FLORIDA 34208

REVISIONS

1	
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5/20/13

RICHARD S. BACON, AIA
AR #0011946

CONDITION 9 SECTIONS

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
BRADENTON, FLORIDA 34208

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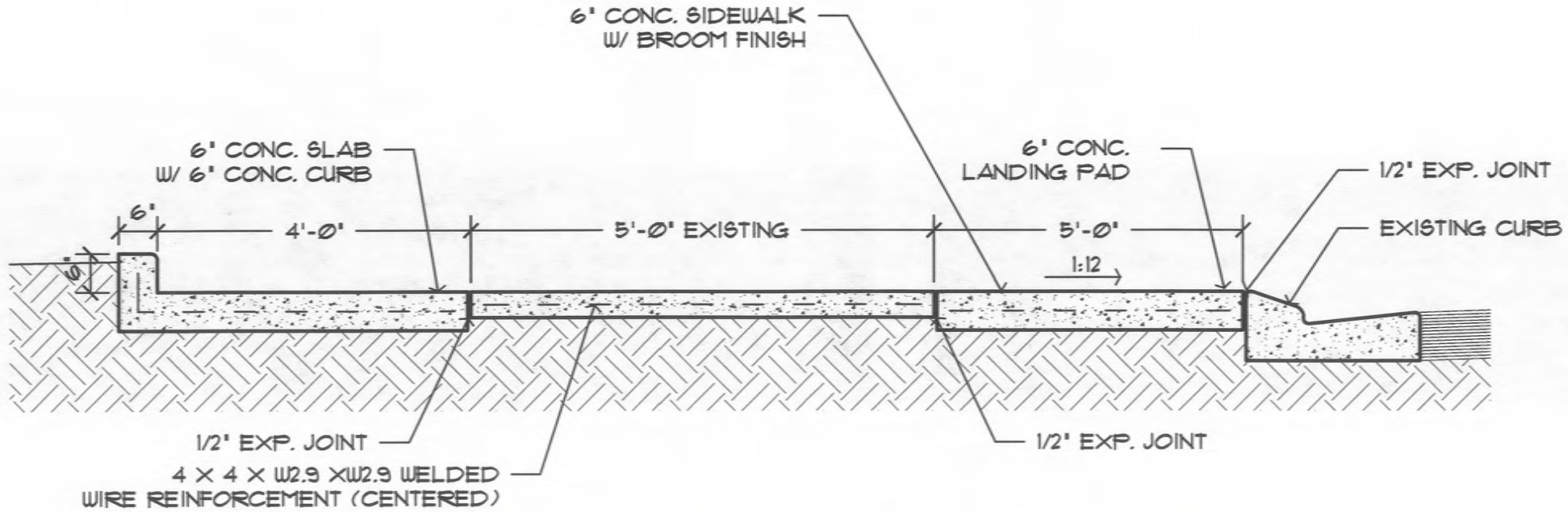
May 16, 2013

SHEET ID:

A9 - 002

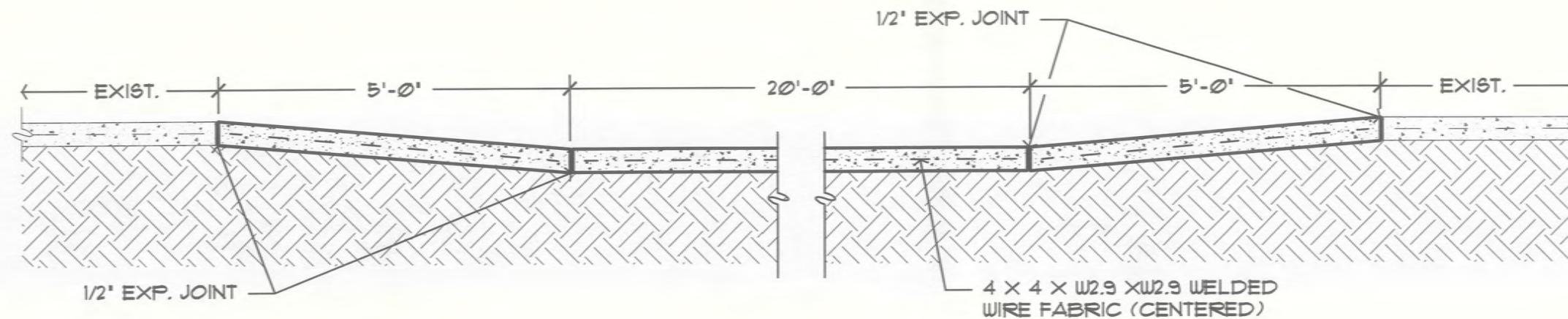
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BG13-07

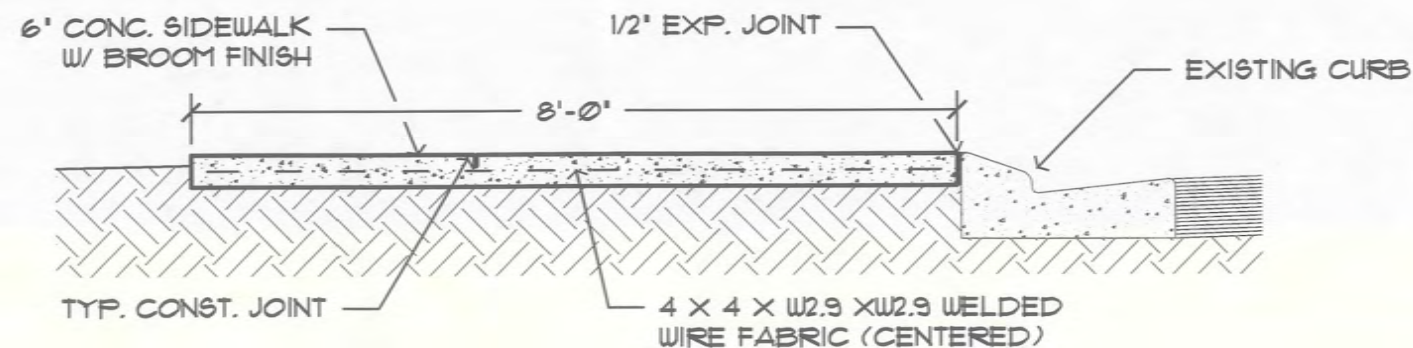


1 SECTION
SCALE: 1/2" = 1'-0"

BG13-07



1 TYPICAL SECTION
SCALE: 1/2" = 1'-0"



1 TYPICAL SECTION
SCALE: 1/2" = 1'-0"



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5/16/13

RICHARD S. BACON, AIA
AR #0011946

CONDITION 10 SECTIONS

ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
BRADENTON, FLORIDA 34208

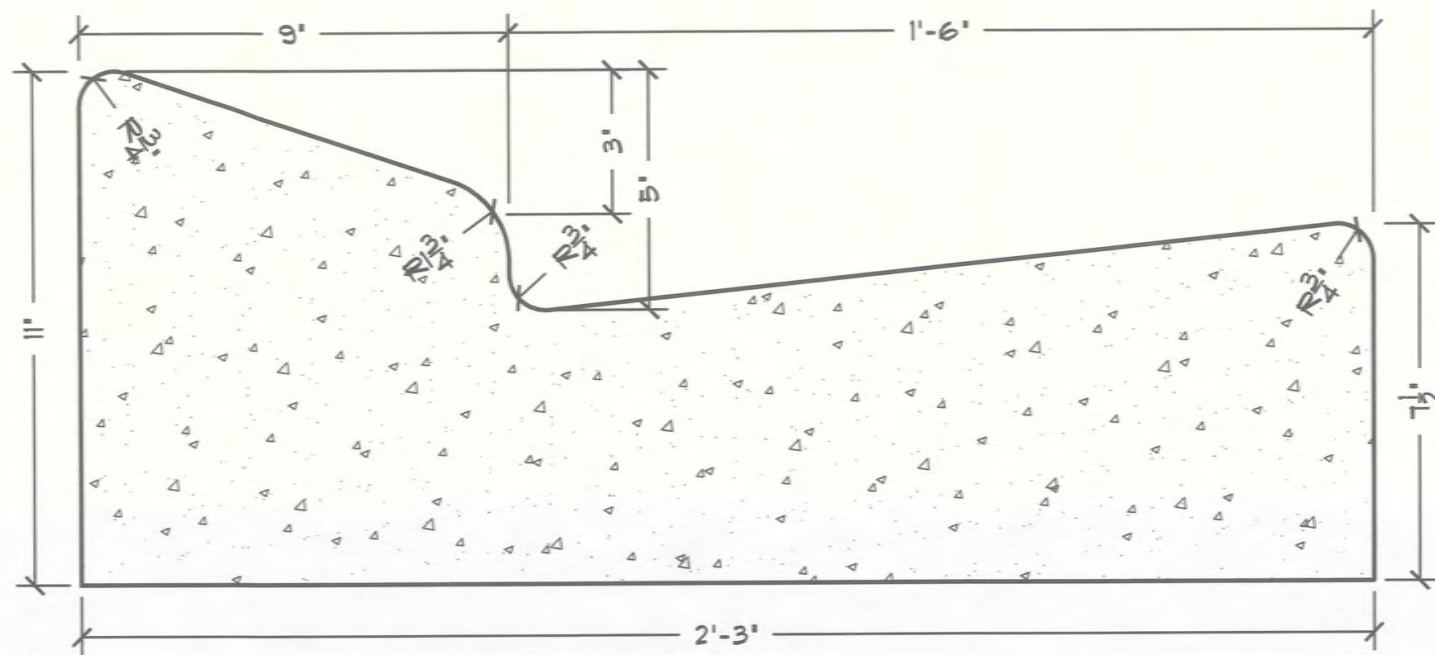
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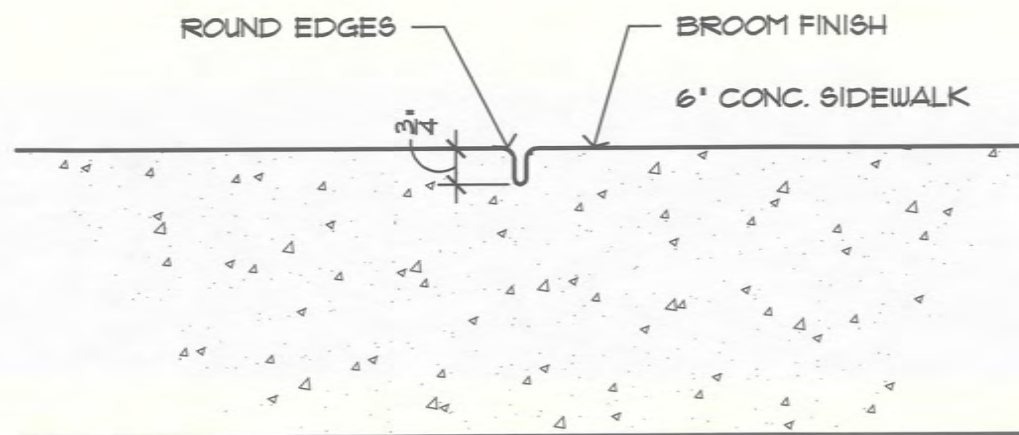
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May 16, 2013

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A10 - 002

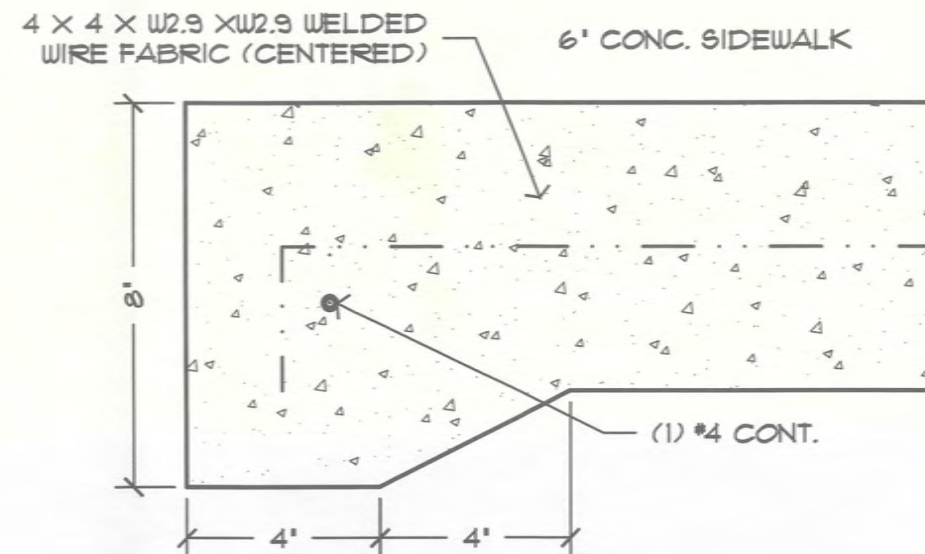
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BG13-07



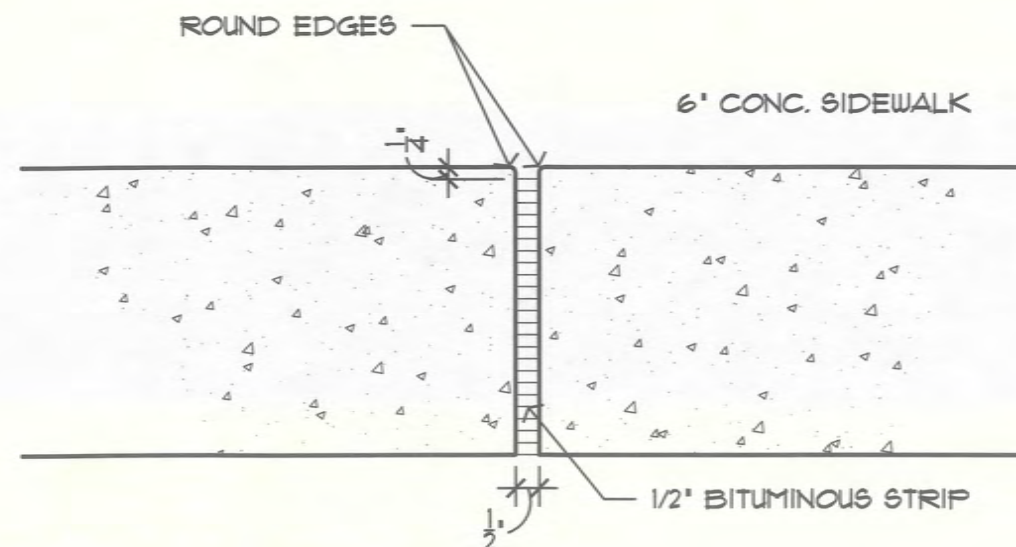
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SCALE: 3"=1'-0"



2 TYP. CONSTRUCTION JOINT
SCALE: 3"=1'-0"



3 TYP. TURNDOWN SLAB
SCALE: 3"=1'-0"



1 TYP. EXPANSION JOINT
SCALE: 3"=1'-0"



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5/2/13

RICHARD S. BACON, AIA
AR #0011946

STANDARD DETAILS
ADA BOARDING PAD PROJECT
MANATEE COUNTY GOVERNMENT PUBLIC WORKS DEPARTMENT
1108 26th AVENUE EAST
BRADENTON, FLORIDA 34208

REVISIONS

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3

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