



MANATEE COUNTY FLORIDA

August 3, 2009

TO: All Interested Bidders

SUBJECT: **Invitation for Bid # 09-2569-DS**
Canal Road Stormwater Piping from 24th Street East to 29th Street East
(Project No. 6067300 6.2)

ADDENDUM # 1

Bidders are hereby notified that this Addendum shall be acknowledged on pages 00300-1 of the Bid Form and made a part of the above named bidding and contract documents.

The following items are issued to add to, modify, and clarify the bid and contract documents. These items shall have the same force and effect as the original bidding and contract documents, and cost involved shall be included in the bid prices. Bids to be submitted on the specified bid date, shall conform to the additions and revisions listed herein.

The deadline for clarification of questions is **August 10, 2009 at 2:00 PM.** This deadline has been established to maintain fair treatment of all potential bidders, while maintaining the expedited nature of the Economic Stimulus that the contracting of this work may achieve.

The followings answers to the questions have been provided by Mr. David Theung and Mr. Mike Reineke, Project Engineers of Wade Trim Inc. and Mr. Jeff Streitmatter, Project Manager, Manatee County Government, Project Management Division.

- 1. A public records request was made for the engineer's estimate for this project. Attached is a copy of the engineer's estimate letter dated June 23, 2009. It is important to note that Manatee County Government is currently receiving competitive bids which are up to 50% lower than engineers' estimates**
- 2. Attachment: Wade Trim Inc., Document, Special Provisions Addendum # 1 (19) nineteen pages.
Subject of Attachment: Responses to Submitted Questions.**
- 3. Attachment: Wade Trim Inc., Letter dated August 3, 2009, (5) five pages.
Subject of Letter: Responses to Submitted Questions.**

Finance Management Department
Mailing Address: Purchasing Division: 1112 Manatee Avenue West, Suite 803, Bradenton, FL 34205
PHONE: 941-708-7528 * FAX: 941-708-7544
www.mymanatee.org

Page 2
August 3, 2009
IFB# 09-2569-DS
ADDENDUM # 1

4. **Attachment: Manatee County Government, Memo dated July 22, 2009 (1) one page.
Subject of Letter: Response to Submitted Question.**
5. **Attachment: Wade Trim Inc., Drawings (3) three pages.
Subject of Drawings: Responses to Submitted Questions.**

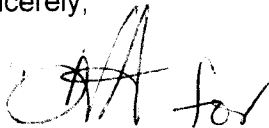
Bidders: The Bid Forms attached to this Addendum # 1, Pages 00300-1 thru 00300-4, (Bid "A" and Bid "B") supersede all other Bid Forms issued for this solicitation and must be used in submission of your bid in response to this Invitation for Bid. (4) four pages.

If you have submitted a bid prior to receiving this addendum, you may request in writing that your original, sealed bid be returned to your firm. All sealed bids received will be opened on the date stated.

END OF ADDENDUM # 1

The deadline for submitting sealed Bids at the Manatee County Purchasing Division, 1112 Manatee Avenue West, Suite 803, Bradenton, Florida 34205 is until 3:30 P.M. on August 13, 2009.

Sincerely,



R. C. "Rob" Cuthbert, CPM, CPPO
Purchasing Division Manager

/ds

Attachments

Finance Management Department
Mailing Address: Purchasing Division: 1112 Manatee Avenue West, Suite 803, Bradenton, FL 34205
PHONE: 941-708-7528 * FAX: 941-708-7544
www.mymanatee.org



WADE TRIM

June 23, 2009

To All Bidders

Re Construction Cost Estimate for Canal Road Piping
Manatee County Project Number 6067300

The construction cost estimate for the Canal Road Piping project is \$770,000 (seven hundred and seventy thousand dollars)

This original construction cost estimate was determined as of June 19, 2009, based on the original specifications and drawings issued for the Canal Road Piping Project. Changes to the bid documents subsequent to the original documents may not be accounted for in the original construction cost estimate.

Sincerely,

WADE TRIM, INC.

David O. Theung, PE
Engineer of Record

DOT:MR:jjc

MTE2107.01M

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cc Jeff Streitmatter, Manatee County, Director, Project Management Department
Sue Sandhoff, Manatee County, Fiscal Services Manager

Wade Trim, Inc.
8045 Henderson Road, Suite 210
Lutz, FL 33556

Phone: 813-947-1100
Fax: 813-947-1101
www.watrim.com



**SPECIAL PROVISIONS
Table of Contents
(ADDENDUM #1)**

SECTION	PAGE
GENERAL	2
STANDARD SPECIFICATIONS	2
NO SEPARATE PAYMENT FOR SPECIAL PROVISIONS	2
MATERIALS	2
LABORATORY TESTING	3
MEASUREMENT AND PAYMENT	3
RESTORATION	5
COOPERATION WITH OTHERS	5
PRIORITY	6
SITE INVESTIGATION	6
PROJECT IDENTIFICATION SIGNS	6
SPECIAL TERMS AND CONDITIONS	7
DEWATERING, SHEETING AND BRACING	8
MAINTENANCE OF TRAFFIC	8
SIDEWALKS TO REMAIN OPEN	8
EXISTING SIDEWALK	9
PEDESTRIAN ACCESS	9
MAINTENANCE OF STORM DRAINAGE SYSTEM	9
DUST CONTROL	9
UNDERGROUND UTILITY LOCATIONS	9
UTILITY COORDINATION	10
UTILITY CONFLICTS	10
DAILY CLEAN-UP REQUIREMENTS	10
MAINTENANCE AND RESTORATION OF JOB SITE	11
NOTICE AND SERVICE THEREOF	11
REQUIREMENTS FOR CONTROL OF THE WORK	12
PROJECT SCHEDULE	12
USE OF PRIVATE PROPERTY	13
CONSTRUCTION PHOTOGRAPHY	13
POST-CONSTRUCTION STORM PIPE TESTING	14
CONTRACTOR TO EXECUTE NPDES "NOTICE OF INTENT"	15
WORKSITE TRAFFIC SUPERVISOR	15
CONTRACTOR'S SUPERVISION	15
LIST OF EMERGENCY CONTACT NUMBERS & UTILITY SERVICE MAINTENANCE	16
RECORD DRAWINGS AND PROJECT CERTIFICATION	16
COMPLIANCE WITH THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWMD) STORMWATER MANAGEMENT AND DISCHARGE PERMIT REQUIREMENTS AND/OR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) DREDGE AND FILL PERMIT REQUIREMENTS	18
MATERIAL TESTING TABLE	19

SPECIAL PROVISIONS

GENERAL

This Section amends enhances or otherwise revises the Technical Specifications.

STANDARD SPECIFICATIONS

The standard Specifications to be used for this work shall be Division II and III the Florida Department of Transportation (FDOT) *Standard Specifications for Road and Bridge Construction*, 2007 Edition and all Supplemental Specifications thereto, hereinafter referred to as the *Standard Specifications*, for roadway construction, except as amended under this Contract.

The Contractor's work shall follow the Manatee County Public Works Utility Standards and Specifications (dated March 2009) for the water main, reclaimed water main, sanitary sewer and force main work.

These specifications cover the usual construction requirements for work specified by the County Transportation Department; however, in the event it is determined that the specific work to be done is of such a nature that the method of construction, type and/or kind of material is not defined by the *Standard Specifications*, such work shall be performed in accordance with the Special Provisions.

The apparent silence of the Specifications as to any detail or the apparent omission from them of a detailed description concerning any work to be done and materials to be furnished shall be regarded as meaning that only the best general practice is to prevail and that only material and workmanship of the best quality is to be used. Interpretation of these specifications shall be made upon that basis.

NO SEPARATE PAYMENT FOR SPECIAL PROVISIONS

No separate payment will be made for the Contractor to execute Special Provisions. All expenses borne by the Contractor shall be included in the individual unit prices for the particular pay item.

MATERIALS

- a. **Delivery Tickets:** It will be necessary to submit a copy of all delivery tickets for materials used on the project, regardless of the basis of payment.

- b. **Job Mix Formula for Asphaltic Concrete:** Attention is directed to the requirement that job mix formulas for asphaltic concrete, of the type specified, be submitted at least 14 days before plant operations begin. The submitted formula should be derived, or approved, by the laboratory approved by the Owner to make test on the Project. Costs for such job mix formulation will be paid by the Contractor directly to the assigned laboratory.

- c. **Job Mix Formula for Portland Cement Concrete:** Attention is directed to the requirement that job mix design formulas for all Portland Cement Concrete, of the type specified, be submitted at least 14 days prior to use on the project. The submitted formulas shall be derived or approved by the Owner and/or its agents. All concrete mix designs shall meet FDOT Concrete Class mix guidelines, except as follows: when approved, in writing by the Engineer, an Alternate Class I Concrete mix design formula, for concrete curb and gutter to be placed by automated curb machines, may show, as a substitution for #57 aggregate, an amount of #89 aggregate not to exceed 33 percent, by weight, of the #57 aggregate.

LABORATORY TESTING

Testing for the Work shall be performed at no expense to the Contractor. However, any test that fails or is not performed, as a result of the Contractor's action will, in turn, be back-charged to the Contractor, including the cost of all re-testing due to defective materials or construction. The testing laboratory shall be approved by the Owner.

The samples and tests used for determining the quality and acceptability of the materials and workmanship, which have been or are to be incorporated in the Work, shall conform to the requirements of the State of Florida Department of Transportation Materials Sampling, Testing and Reporting Guide, latest edition. Testing shall also be in accordance with the applicable portions of Section 6 of the *Standard Specifications* and these specifications.

MEASUREMENT AND PAYMENT

- a. All work completed under the terms of this contract shall be measured according to United States Standard Measures.
- b. All measurements shall be taken horizontally or vertically unless specifically provided otherwise.
- c. No payment will be made for construction over a greater area than authorized, nor for material moved from outside of stakes and data shown on the plans, except when such work is performed upon instructions of the Engineer.
- d. The Contractor shall accept compensation provided under the terms of this contract as full payment for furnishing all materials and for performing all work contemplated and embraced under this contract. Such compensation shall also be for any and all loss or damage arising out of the nature of the work or from the action of the elements, or from any unforeseen difficulties or obstructions encountered during the contract period until final acceptance by the Owner.

- e. Whenever any change, or combination of changes, on the plans results in an increase or decrease in the original contract quantities, and the work added or decreased/eliminated is of the same general character as that called for on the plans, the Contractor shall accept payment in full at the original contract unit prices for the actual quantity of work performed, with no allowance for any loss of anticipated profits.
- f. It is the Contractor's responsibility to perform a detailed quantity take-off from the plans to determine actual quantities for ordering and delivery purposes. The Owner will not be responsible for quantities ordered in excess of those installed and constructed. The Contractor should be aware that some of the pay items may have contingency quantities. Payment shall be made only for final in-place quantities. No payment shall be made for contingency quantities or additional work unless otherwise directed and approved in writing by the Engineer.
- g. Bid Schedule Completion - the blank spaces in the bid schedule shall be filled in correctly where indicated for each and every item for which a description is given, as the bidder must state the unit prices for which he proposes to do each part of the work contemplated, and the total price for all the parts included in any or all of the combinations of the work. In case of a discrepancy, the written words for "unit price", where stated, shall be considered as being the unit price. If the bid schedule does not use the written words for the unit price, then the numerically correct "total price", shall be considered as being the total price.
- h. The Discretionary Work (Contingency) -- Payment for this item shall cover the cost for various contingencies and contract amendments authorized by the Owner. Any amount of extra work and/or alterations to the proposed Work charged to the allowance shall be fully documented and authorized by the Engineer before the start of the work. No payment shall be made for work completed without written authorization from the Owner or Engineer.
- i. Miscellaneous Work and Cleanup - Payment for all work included under this Bid Item shall be made at the Contract lump sum price bid listed in the Bid Form and shall represent full compensation for all labor, materials and equipment required to perform all the work as shown on the Contract Drawings and specified herein and any other miscellaneous work not specifically included for payment under other Bid Items obviously necessary to complete the Contract. Partial payments will be based on the breakdown of the Bid Item in accordance with the Schedule of Values submitted by the Contractor and approved by the Engineer. Payment shall also include full compensation for project photographs, as-built record drawings, project signs, traffic control, rubbish and spoil removal, repair, replacement or relocation of all signs, walls, private irrigation systems and related items and any and all other items required to complete the project in accordance with Contract Documents.

- j. Steel Casing – Payment for all work included in this Bid item shall be made at the applicable Contract unit price bid per linear foot. Any related work not specifically listed, but required for satisfactory completion of work shall be considered to be included under this pay item. Payment shall include full compensation for all labor, materials, equipment, excavation (including rock), bedding, backfill, compaction, bolts, gaskets, nuts and washers required to complete this item. Payment will also include full compensation for any excavation below the bottom of casing, for rock removal or bedding and backfill material, or for repair of any trench settlement.

- k. 6-inch Ductile Iron Restrained Joint Water Main – Payment for all work included in this Bid item shall be made at the applicable Contract unit price bid per linear foot. Any related work not specifically listed, but required for satisfactory completion of work shall be considered to be included under this pay item. Payment shall include full compensation for all labor, materials, equipment, excavation (including rock), thrust blocks and or restrained joints, bedding, backfill, compaction, testing and disinfection, bolts, gaskets, nuts and washers required to complete this item. Payment will also include full compensation for any excavation below the bottom of pipe, for rock removal or bedding and backfill material, or for repair of any trench settlement.

- l. 6-inch, 45-degree Bends - Payment for all work included in this Bid item shall be made at the applicable Contract unit price bid per unit. Any related work not specifically listed, but required for satisfactory completion of work shall be considered to be included under this pay item. Payment shall include full compensation for all labor, materials, equipment, excavation (including rock), thrust blocks, bedding, backfill, compaction, testing and disinfection, bolts, gaskets, nuts and washers required to complete this item. Payment will also include full compensation for any excavation below the bottom of pipe fitting, for rock removal or bedding and backfill material, or for repair of any trench settlement.

RESTORATION

Payment for restoration shall be covered under the applicable restoration Pay Items as specified in the proposal. If a specific restoration Pay Item is not listed in the proposal, the cost of such work shall be included in the applicable Pay Item unless otherwise provided under separate restoration section or pay quantity of these Specifications.

COOPERATION WITH OTHERS

The Contractor shall cooperate with the owners of any underground or overhead utility lines in their removal and rearrangement operations, in order that these operations may progress in a reasonable manner and that service rendered by these parties will not be interrupted. The Owner shall not be responsible for costs associated with delays, disruptions and remobilizations attributed to utility agency scheduling.

PRIORITY

In any instance where there is an apparent conflict between these technical specifications special provisions and the corresponding terms of the "Standard Specifications", these special provisions followed by these technical specifications shall be controlling.

SITE INVESTIGATION

The Contractor acknowledges that he has satisfied himself as to the nature and location of the work; the general and local conditions, including but not restricted to those bearing upon transportation, disposal, handling and storage of materials; availability of labor, water, electric power, roads; and uncertainties of weather, water stages, tides or similar physical conditions at the site; the conformation and conditions of the ground; the character of equipment and facilities needed preliminary to and during execution of the work.

The Contractor further acknowledges that he has satisfied himself as to the character, quality and quantity of surface and subsurface materials or obstacles to be encountered, insofar as this information presented by the drawings and Specifications made a part of this contract.

The Contractor shall carefully review and adhere to conditions and recommendations made in the project geotechnical report. Any failure by the Contractor to acquaint himself with the available information will not relieve him from responsibility for estimating properly the difficulty or cost of successfully performing the work.

The Owner assumes no responsibility for any conclusions or interpretations made by the Contractor on the basis of the information made available by the Owner. The Owner also assumes no responsibility for any understanding or representations made by its officers or agents during or prior to the execution of this Contract, unless (1) such understanding or interpretations are made in writing by the Engineer or are expressly stated in the Contract and (2) the Contract expressly provides that the responsibility therefore is assumed by the Owner.

PROJECT IDENTIFICATION SIGNS

The Contractor shall be responsible for furnishing, installing and maintaining four (4) County project identification signs and removal of same upon completion of the construction. Project identification sign shall be constructed and maintained at the project site as directed by the Owner. The Contractor shall erect, maintain and relocate the sign as directed for the duration of the Project.

The Contractor shall mount the sign using 4-inch pressure treated lumber or as approved by the Engineer, and other supports as required, at a location mutually agreed by the Engineer and the Contractor. The identification signs shall not be less than 32 square feet in area. The Contractor shall coordinate with the Owner for the sign verbiage before fabrication. The signs shall be painted with graphic content to include:

- Title of Project
- Name of Owner
- Names and Titles of authorities, as directed by Owner
- Prime Contractor
- Construction Cost

The signs shall be erected prior to commencement of work at a lighted location of high public visibility, adjacent to the main entrance at each end of the project, as approved by the Engineer and Owner. The signs shall be a minimum of 8 feet wide and 4 feet high. The signs shall be constructed of high density 3/4-inch exterior plywood without waves or buckles, mounted and braced with pressure treated lumber as necessary and maintained in a presentable condition for the duration of the project. Hardware shall be galvanized. The surface of the sign shall be of exterior softwood plywood with medium density overlay. Painting shall be constructed with materials to resist weathering and fading during the construction period. Experienced professionals shall perform painting. Graphic design and style shall be in accordance with the following:

- The signs will be placed in accordance with Manatee County Development Code, Ordinance 90-01, Section 724, Signs and Section 713, Visibility Triangles.

Payment for installing and maintaining the project identification signs shall be included as part of the lump sum quantity under the Pay Item for Mobilization. The sign will remain the property of the Owner upon completion of the Project unless otherwise directed.

SPECIAL TERMS AND CONDITIONS

Soil Erosion and Siltation

The Contractor shall plan and control the Work to minimize all soil erosion and the siltation of drains and canals resulting from such erosion. At the pre-construction meeting, the Contractor shall present his proposed plan and schedule, which shall specifically indicate the proposed used of temporary erosion control features. The plan shall include:

- **Synthetic Bales** designed, furnished and installed by the Contractor in accordance with the plans, FDOT Section 104-6-4, and FDOT Design Standard Index No. 102.
- **Floating turbidity barriers** furnished and installed by the Contractor as shown on the plans and/or required by conditions of the permits and as outlined in FDOT Section 104-6.4.11.

Shop Drawings

The Contractor shall submit to the Engineer for approval, all working drawings and shop drawings with descriptive specifications and engineering calculations necessary for the successful completion of the Work. The working and shop drawings shall be certified by a Florida licensed Professional Engineer and state that the design is sufficient for the successful completion of the Work. The working drawings and shop drawings shall include, but not be limited to:

- Erosion Control Plan
- Shop Drawings as required by FDOT Standard Specifications
-

Temporary Pavement

Temporary pavement shall consist of a minimum of 6" limerock compacted 98% mod. Proctor density or 6" soil cement or approved equal with 1" Type Superpave Asphaltic Conc, Traffic A, SP-9.5, structural course over a firm, unyielding, well-compacted subgrade. The Contractor shall immediately repair all potholes that develop within the project limits and shall maintain a supply of cold mix on the project site to expedite these repairs. Payment for the temporary pavement and maintenance of this pavement shall be at the contractor's expense.

DEWATERING, SHEETING AND BRACING

Payment for dewatering, sheeting and bracing shall be included in the applicable pay items unless separate pay items are specified.

Approval of Dewatering Plan:

At least 10 days prior to the commencement of any dewatering activity, the Contractor shall submit to the Project Manager for record purposes only, a detailed description of the proposed dewatering system. This plan shall include design computations, layout, type, and spacing of dewatering devices, number and size of pumps and other equipment, with a description of the installation and operating procedures.

MAINTENANCE OF TRAFFIC

The Contractor shall provide access to businesses and local residents at all times. Business Entrance signs per FDOT Index 17355 (FTP-59) shall be placed at all business entrance points and maintained during all phases of construction. Payment for these items shall be included under the pay item for Maintenance of Traffic.

SIDEWALKS TO REMAIN OPEN

Existing sidewalks and proposed sidewalks completed during construction shall remain open at all times unless approved otherwise by the Engineer. Temporary sidewalk shall be constructed as shown in the plans or as required to maintain pedestrian movement. Payment for these items shall be included under the lump sum pay item for Maintenance of Traffic.

EXISTING SIDEWALK

If the Contractor, in the process of performing his contract operations, breaks any of the existing sidewalk that is to remain in place, replacement of this sidewalk will be at the Contractor's expense.

PEDESTRIAN ACCESS

The Contractor shall provide access and make provisions to maintain school zones during construction. The Contractor is to facilitate pedestrian traffic whether for school or public transportation.

MAINTENANCE OF STORM DRAINAGE SYSTEM

The Contractor shall be responsible at all times to maintain the operation of existing stormwater facilities, or, when existing stormwater facilities are removed, to provide equivalent capacity alternate forms of stormwater removal adequate to prevent upstream flooding in excess of existing conditions. This responsibility shall include the installation of temporary connections, bypass pumping, or other temporary means necessary until the new drainage system is fully operational. Payment for these items shall be included under the applicable pay item.

DUST CONTROL

The Contractor shall control dust resulting from construction operations at all times. The locations and frequencies of applications shall be as directed by the Engineer. Dust control is required to be in accordance with the FDOT *Standard Specifications* Section 102-5. Payment for Dust Control shall be made under Mobilization unless separate pay item for Dust Control is specified.

UNDERGROUND UTILITY LOCATIONS

The Contractor shall field verify by means of subsurface locating or other approved method all existing utilities to remain and conditions as may be required for the work area. This shall include all areas of potential conflicts with proposed storm, sanitary, force main and water main. The Contractor shall locate all existing utilities to remain at potential conflict locations prior to construction activities and before ordering any proposed structures. The Contractor shall contact and coordinate with Sunshine One Call as well the individual utilities prior to and during construction for utility locations, relocation and assistance while installing in potential conflict areas. All utility coordination and relocations shall be factored into the Contractor's construction schedule at no additional cost to the Owner. The cost of all labor, materials and incidentals required for the performance of any survey and utility location work shall be included under the pay item for Mobilization. A Florida registered land surveyor shall perform all survey work.

UTILITY COORDINATION

The Contractor shall clear and grub and stake the right-of-way clearly and give the utility owners two weeks notice prior to completion of this work.

The Contractor shall be responsible for coordination of the work with all affected utility owners. The Contractor must take into consideration the required utility adjustments and relocations in development of his schedule for completing the work including construction of temporary work to allow phased construction of the permanent facilities.

The Contractor shall coordinate and schedule utility relocations and/or adjustments with the utility owners along the project in order to avoid delays. The work includes remobilization if required after utility relocation is complete. For the purpose of this bid, 20 demobilizations and 20 remobilizations will be included in the lump sum bid for Mobilization. The intent is to coordinate utility construction activities so the project construction continues and is not stopped or delayed at any time due to utility work being done. Once Notice to Proceed is issued, the Contractor shall contact the affected utilities to discuss the Contractor's anticipated means and methods so temporary and permanent relocation plans can be implemented as needed to meet OSHA safety requirements.

The Contractor shall hold a utility owners meeting every two weeks at 1022 26th Avenue East. The meeting shall review current and upcoming activities for the project. Written meeting minutes will be prepared by the Contractor and distributed to the meeting participants within 7 calendar days of the meeting.

Payment for Utility Coordination shall be included under the lump sum Bid Item for Mobilization.

UTILITY CONFLICTS

It shall be the Contractor's responsibility to avoid conflicts with other utilities. The Owner will not be responsible for additional costs incurred by the Contractor for incorrect installations, relocations and breaks due to service conflicts.

DAILY CLEAN-UP REQUIREMENTS

The Contractor shall clean up the job site at the end of each workday. Clean up will include the elimination of rubble and waste material on public and private property. Driveways shall remain accessible by residents. Each Friday, the Contractor shall prepare the road surface and barricades in an acceptable manner for weekend traffic use.

MAINTENANCE AND RESTORATION OF JOB SITE

The Contractor shall conduct his operations in such a manner as will result in a minimum of inconvenience to occupants of adjacent homes and business establishments and shall provide temporary access as directed or as may be required by the Project Manager. All final restoration must be performed to an equal or better condition than that which existed prior to construction.

Good housekeeping on this project is extremely important and the Contractor will be responsible for keeping the construction site neat and clean, with debris being removed daily as the work progresses or as otherwise directed by the Project Manager. Good housekeeping at the job site shall include: Removing all tools and temporary structures, dirt, rubbish, etc.; hauling all excess dirt, rock, etc., from excavations to a dump provided by the Contractor; and all clean up shall be accomplished to the satisfaction of the Project Manager. Dust will be controlled daily as may be required. Immediately after construction completion in an area or part thereof (including restoration), barricades, construction equipment and surplus and discarded materials shall be removed by the Contractor.

In the event that the timely clean up and restoration of the job site is not accomplished to the satisfaction of the Project Manager, the Project Manager shall make arrangements to affect the necessary clean up by others. The Contractor shall be charged for these costs through deductions in payment due the contractor. If such action becomes necessary on the part of and in the opinion of the Project Manager, the Owner shall not be responsible for the inadvertent removal from the work site of materials which the Contractor would not normally have disposed of had he affected the required clean up.

NOTICE AND SERVICE THEREOF

All notices, which shall include demands, instructions, requests, approvals, and claims shall be in writing. Any notice to or demand upon the Contractor shall be sufficiently given if delivered to the office of the Contractor specified in the bid (or to such other office as the Contractor may, from time to time, designate to the Owner in writing), or if deposited in the United States mail in a sealed, postage prepaid envelope, or delivered, with charges prepaid, sent via fax transmission, or to any telegraph company for transmission, in each case addressed to such office.

All notices required to be hand delivered to the Owner, unless otherwise specified in writing to the Contractor, shall be delivered to the Project Manager, and any notice to or demand upon the Owner shall be sufficiently given as delivered to the office of the Project Manager, or if deposited in the United States mail in a sealed, postage prepaid envelope, sent via fax transmission, or delivered with charges prepaid to any telegraph company for transmission, in each case addressed to said Project Manager or to such

other representative of the Owner or to such other address as the Owner may subsequently specify in writing to the Contractor for such purposes.

Any such notice or demand shall be deemed to have been given or made as of the time of actual delivery or (in the case of mailing) when the same should have been received in due course of post or in the case of a fax transmission or telegram at the time of actual receipt, as the case may be.

REQUIREMENTS FOR CONTROL OF THE WORK

Prior to the start of the Work described in this contract, a pre-construction conference will be held by the Project Manager to be attended by the Contractor and representatives of the various utilities and others as required, for the purpose of establishing a schedule of operations which will coordinate the work to be done under this contract with all related work to be done by others within the limits of the project.

All items of work in this contract shall be coordinated so that progress of each related item will be continuous from week to week. The progress of the work will be reviewed by the Project Manager at the end of each week, and if the progress of any item of work during that week is found to be unsatisfactory, the Contractor shall be required to adjust the rate of progress on that item or other items as directed by the Project Manager without additional compensation. The Contractor will continuously control the work until completed.

PROJECT SCHEDULE

The Contractor shall submit a detailed construction bar chart schedule within 15 days of the notification of award or its intent for the County to review. The submittal shall meet the following requirements:

- Schedule will be submitted on 11-inch by 17-inch paper.
- The time scale (horizontal) shall be in weeks. The activities shall be listed on the left hand side (vertical).
- Activities shall show most Work activities. The listing from top to bottom shall be in a logical sequence of how the Work will be accomplished. Space shall be provided between activities or within bars to allow for marking of actual progress.

A copy of the schedule, clearly showing progress made, shall be submitted on a monthly basis during the progress of the work. Review or acceptance will neither impose on the County responsibility for the progress or scheduling of the Work, nor relieve the Contractor from full responsibility therefore.

The Contractor shall provide a revised Work schedule if, at any time, the County considers the completion date to be in jeopardy because of "activities behind schedule". An activity that cannot be completed by its original or latest completion date shall be deemed to be behind schedule. The revised Work schedule is designed to show how the Contractor intends to accomplish the Work to meet the contractual completion date. The form and

method employed by the Contractor shall be the same as for the original Work schedule. The cost to prepare and revise the schedule is considered incidental to the Work.

USE OF PRIVATE PROPERTY

All construction activities required to complete this project in accordance with the Contract Documents shall be confined to public right-of-way, easements of record or temporary construction easements, unless the Contractor makes specific arrangements with private property owners for his use of their property. Written authorization from the granting property owner shall be placed on file with the Project Manager prior to utilization of said private properties. The Owner assumes no responsibility for damage to private property in such instances. The Contractor is responsible for protection of private property abutting all work areas on this project. Adequate equipment storage and material storage shall also be accomplished outside the Owner's right-of-way. Pipe and other materials shall not be strung out along the right-of-way, but will be delivered in quantities adequate for one day's installation. The Owner will coordinate with the Contractor to identify possible storage sites.

CONSTRUCTION PHOTOGRAPHY

General

The Contractor shall employ a competent photographer to take construction record photographs and perform videotaping including providing all labor, materials, equipment and incidentals necessary to obtain photographs and/or videotapes of all areas specified in the Contract specifications. The word "Photograph" includes standard photographic methods involving negatives, prints and slides and it also includes digital photographic methods involving computer technology items such as diskettes and CD-ROMs.

Qualifications

A competent camera operator who is fully experienced and qualified with the specified equipment shall do all photography. For the videotape recording, the audio portion should be done by a person qualified and knowledgeable in the specifics of the Contract, who shall speak with clarity and diction so as to be easily understood.

Project Photographs

Provide photographs of the entire work area prior to any construction for the purpose of records of conditions prior to construction. Photographs should be spaced at approximately 100-foot intervals. In addition, all special features shall be photographed prior to construction.

Provide three prints of each standard photograph to the Owner. In addition to the CD-ROM media, provide one print of each digital/digitized photograph to the Owner.

The Contractor shall pay all costs associated with the required photography and prints. Any parties requiring additional photography or prints will pay the photographer directly.

All project photographs shall be a single weight, color image. All finishes shall be smooth surface and glossy, and all prints shall be 8 inches by 10 inches.

Each print shall have clearly marked on the back the name of the project, the orientation of view, the date and time of exposure, name and address of photographer and the photographers numbered identification of exposure.

All project photographs shall be taken from locations to adequately illustrate conditions prior to construction, or conditions of construction and state of progress. The Contractor shall consult with the Owner at each period of photography for instructions concerning views required. The Contractor shall deliver prints in conformance with the above requirements to the Owner. No construction shall begin until pre-construction photographs are completed and submitted to the Owner.

Negatives

The Contractor shall require that photographer maintain negatives for a period of two years from date of Substantial Completion of the Project. Negatives shall be conveyed to Owner at the end of the two-year period. Photographer shall agree to furnish additional prints to Owner at commercial rates applicable at the time of purchase. Photographer shall also agree to participate as required in any litigation requiring the photographer as expert witness.

Videotape Recording

Videotaping may be used in lieu of construction photographs. Videotaping shall be accomplished along all routes that are scheduled for construction. The taping shall, when viewed, depict an image with $\frac{1}{4}$ of the image being the roadway fronting of property and $\frac{3}{4}$ of the image being of the property. The taping shall be done so as to show the roadway and property in an oblique view (30 degrees). A complete view, in sufficient detail, of all driveways, with audio description of the exact location shall be provided.

The Engineering plans shall be used as a reference for stationing in the audio portion of the tapes for easy location identifications. If visible, house numbers shall be mentioned on the audio.

Two complete sets of videotapes shall be delivered to the Owner for the permanent and exclusive use of the Owner prior to the start of any construction on the project. All videotapes shall contain the name of the project, the date and time of the videotaping, the name and address of the photographer and any other identifying information required.

Payment for this item shall be included under the pay item for Mobilization.

POST-CONSTRUCTION STORM PIPE TESTING

The Contractor shall inspect and televise all newly constructed storm pipes on the project. The purpose is to assure the pipes are properly constructed and do not leak at the joints. Payment for this item shall be included under the pay item for Pipe Culvert, Round and Elliptical, various sizes.

CONTRACTOR TO EXECUTE NPDES "NOTICE OF INTENT"

Prior to proceeding with construction, the Contractor shall prepare and submit a "Notice of Intent to Use Generic Permit for Stormwater Discharge from Construction Activities that Disturb One or More Acres of Land" to the Florida Department of Environmental Protection (FDEP). The Contractor shall monitor the site at all times and take appropriate action to prevent erosion including the use of BMPs. No pumping of ground or surface water shall be performed without approval from the Water Management District. Following completion of construction, Contractor shall prepare and submit a "Notice of Termination of Generic Permit Coverage" to FDEP. Payment for this item shall be included under the pay item for Mobilization.

WORKSITE TRAFFIC SUPERVISOR

- a. The Contractor shall have a Worksite Traffic Supervisor who will be responsible for initiating, installing and maintaining all traffic control devices as described in Section 102 of the FDOT *Standard Specifications for Road and Bridge Construction* and in the Plans. The Worksite Traffic Supervisor shall have at least one year of experience directly related to work site traffic control in a supervisory or responsible capacity and shall be certified by the American Traffic Safety Services Association Worksite Traffic Supervisor Certification Program or an equal approved by FDOT. Approved alternate Worksite Traffic Supervisors may be used when necessary.
- b. The Worksite Traffic Supervisor shall be available on a 24-hour per day basis and shall review the project on a day-to-day basis as well as being involved in all changes to traffic control. The Worksite Traffic Supervisor shall have access to all equipment and materials needed to maintain traffic control and handle traffic related situations. The Worksite Traffic Supervisor shall ensure that routine deficiencies are corrected within a 24-hour period.
- c. The Worksite Traffic Supervisor shall be available on the site within 45 minutes after notification of an emergency situation, prepared to positively respond to repair the work zone traffic control or to provide alternate traffic arrangements.
- d. Failure of the Worksite Traffic Supervisor to comply with the provisions of the Sub-article may be grounds for decertification or removal from the project or both. Failure to maintain a designated Worksite Traffic Supervisor or failure to comply with these provisions will result in temporary suspension of all activities except traffic and erosion control and such other activities deemed to be necessary for project maintenance.
- e. Payment for Worksite Traffic Supervisor shall be included under the pay item for Maintenance of Traffic.

CONTRACTOR'S SUPERVISION

- a. Execution of Work: The Contractor shall give the work the constant attention necessary to assure the scheduled progress. He shall cooperate fully with the Engineer and with other Contractors at work in the vicinity.
- b. Contractor's Superintendent: The Contractor shall at all times have on the work site as his agent, a competent superintendent capable of thoroughly interpreting the plans and specifications and thoroughly experienced in the type of work being performed, who shall

receive the instructions from the Engineer or his authorized representatives. The superintendent shall have full authority to execute the orders or directions of the Engineer and to supply promptly any materials, tools, equipment, labor and incidentals that may be required. Such superintendence shall be furnished regardless of the amount of work sublet.

- c. The Contractor's superintendent shall speak and understand English, and at least one responsible person who speaks and understands English shall be on the project during all working hours.
- d. Supervision for Emergencies: The Contractor shall have a responsible person available at or reasonably near the work site on a 24-hour basis, 7 days a week, in order that he may be contacted for emergencies and in cases where immediate action must be taken to maintain traffic or to handle any other problem that may arise. The Contractor's responsible person for supervision for emergencies shall speak and understand English. The Contractor shall submit, by certified mail, phone numbers and names of personnel designated to be contacted in cases of emergencies along with a description of the project location to the Florida Highway Patrol and all other local law enforcement agencies.

LIST OF EMERGENCY CONTACT NUMBERS & UTILITY SERVICE MAINTENANCE

The Contractor shall obtain and maintain a list of emergency contact phone numbers for all utilities during the course of the project. The Contractor shall maintain utility service during the project except for interruptions authorized by the utility owner. If interruptions are required, the Contractor shall notify the Owner 48 hours in advance.

RECORD DRAWINGS AND PROJECT CERTIFICATION

This section and number of copies applies to roadway, drainage and utility record drawings.

The Owner and/or Engineer will furnish the Contractor copies of the bid plans to be used for the record drawings. A Florida Registered Surveyor shall perform a field survey and any differences between the plan elevations or dimensions shall be marked through and the as-built elevation or dimension legibly entered. All elevations and dimensions that are correct shall have a check mark placed beside it.

The Contractor shall keep a complete set of surveyed "As-built" records. These records shall show all items of Work and existing features of utilities revealed by excavation work. The records shall be kept in a professional manner, in a form that shall be approved by the County prior to the Work. These results shall be available at all times during construction for reference by the Engineer and shall be delivered to the Engineer upon completion of the Work. All completed "As-builts" must be certified by a Florida Licensed Surveyor or Engineer per Chapter 61 G 17-6, Florida Administrative Code, pursuant to Sec. 47207, Florida Statutes. At a minimum all Utility Record Drawings shall be in accordance with Manatee County Standards.

The following information is required on the "Record Drawings":

- A. Roadway centerline profile [100-foot maximum interval].
- B. Roadway cross sections [100-foot maximum interval].
- C. All underground piping with elevations and dimensions, changes to piping locations, horizontal and vertical locations of underground utilities and appurtenances referenced to permanent surface improvements. Actual installed pipe material, class, etc. Dimensions at these locations shall indicate distance from the centerline of construction.
- D. Elevations on all drainage control structures, verifying all plan dimensions.
- E. Stormwater ponds with cross sections [25-foot maximum interval] (sufficient to calculate volumes).
- F. Flow line elevations on all ditch breaks (vertical and horizontal).
- G. Field changes of dimensions and details.
- H. Details not on original contract drawings.
- I. Equipment and piping relocations.
- J. The locations of all headwalls, pipes and any other structures shall be located by station and offset.
- K. Benchmarks and elevation datum shall be indicated.
- L. Additional elevations or dimensions as required by the Engineer

Following completion of construction and prior to final payment, the Contractor shall submit a Certification by the Contractor and Manufacturer including test data that the materials (filter fabric, filter media, etc.) installed meet plan specifications and regulatory requirements.

Upon completion of the work, four (4) sets of draft "Record Drawings" shall be submitted to the Owner for review. Such drawings shall accurately show all approved field changes to the original Construction Drawings, including actual locations, dimensions and elevations and shall be subject to a field review in the presence of the Engineer or his designated representative. The drawings are to be prepared by competent personnel, neatly drafted and certified, signed and sealed by a Florida Registered Surveyor.

The Contractor shall incorporate any comments from the Owner and/or Engineer and shall submit two write-only CD-ROMs, one set of 24-inch by 36-inch mylar record drawings and four sets of 24-inch by 36-inch certified prints with the Surveyor's certification.

All Digital Drawings shall be identical to those submitted as hard copy. The Digital Drawing files shall be AutoCAD format (Release 2004 or later) and shall include all external reference drawings, text fonts, shape files and all other files necessary to make use of the drawings.

Three separate as-built drawing submittals will be required. The Storm Water as-built is required immediately upon completion of the storm sewer systems and storm water ponds on the project. The as-built drawing will be forwarded to the Southwest Florida

Water Management District for approval after they have been reviewed and accepted by the Project Manager. The Utility as-built is required immediately upon completion of the water main, sanitary sewer and force main work on the project. The as-built drawing will be forwarded to the Florida Department of Environmental Protection for approval after they have been reviewed and accepted by the Project Manager.

COMPLIANCE WITH THE SOUTHWEST FLORIDA WATER MANAGEMENT DISTRICT (SWFWMD) STORMWATER MANAGEMENT AND DISCHARGE PERMIT REQUIREMENTS AND/OR THE DEPARTMENT OF ENVIRONMENTAL PROTECTION (DEP) DREDGE AND FILL PERMIT REQUIREMENTS

Southwest Florida Water Management District Stormwater Management and Discharge permits or exemptions, if any, and/or a Department of Environmental Protection Dredge and Fill permit, if any, required for this project have been obtained by the Owner. The Contractor shall comply with the stipulations of the Permits or Exemptions as stated herein.

The Contractor shall allow periodic inspection of the work by authorized representatives of the Department of Environmental Protection, the Southwest Florida Water Management District, as well as other duly authorized law enforcement officers of the State.

MATERIAL TESTING TABLE

ITEM	TEST	TEST IDENTIFICATION	TEST REQUIREMENTS VERTICAL	TEST FREQUENCY HORIZONTAL
UTILITY TRENCH BACKFILL	MAXIMUM DENSITY OPTIMUM MOISTURE	AASHTO T-180	N/A	PER SOIL CLASSIFICATION/ PER LABORATORY ONE PER 200 LF
	FIELD DENSITY	AASHTO T-180	PER PLANS	
SUBGRADE UNCLEAR NEW CURB	MAXIMUM DENSITY OPTIMUM MOISTURE	AASHTO T-180	N/A	PER SOIL CLASSIFICATION/ PER LABORATORY ONE PER 200 LF
	FIELD DENSITY	AASHTO T-180	PER PLANS	
LIMEROCK/ SHELL BASE	MAXIMUM DENSITY OPTIMUM MOISTURE	AASHTO T-180	N/A	PER SOIL CLASSIFICATION/ PER LABORATORY ONE PER 200 LF
	FIELD DENSITY	AASHTO T-180	PER PLANS	
SOIL CEMENT BASE	SOIL CEMENT PLACEMENT/ MONITORING DENSITIES THICKNESS DETERMINATIONS	AASHTO T-134 AND AASHTO T-135	PER PLANS	ONE PER 200 LF
CONCRETE	COMPRESSIVE STRENGTH (THREE CYLINDERS/TEST)	AASHTO T-23 AND AASHTO T-119	PER SPECS	Per Specs/Min. of One Set/Day FOR POURS BETWEEN 10 & 50 CY ADDITIONAL SET FOR EACH 50 CY DAILY OR 1 PER 50 CY MAX
	SLUMP, AIR CONTENT	AASHTO T-22 AND AASHTO T-180	PER SPECS	
ASPHALT	MATERIAL QUALITY GRADATION, STABILITY BITUMEN CONTENT	FLORIDA D.O.T.	PER SPECS	PER SPECS DAILY OR 1 PER 50 CY MAX
RECYCLED CONCRETE BASE	GRADATION DENSITIES THICKNESS DETERMINATIONS	AASHTO T-180	PER SPECS	PER SOIL CLASSIFICATION/ PER LABORATORY ONE PER 200 LF



WADE TRIM

August 3, 2009

Ms. Donna M. Stevens
 Manatee County Government
 Construction Buyer
 1022 26th Avenue East
 Bradenton, FL 34208

Re: Canal Road Piping
 Manatee County Project Number: 6067300
 Addendum No. 1 Responses

Dear Ms. Stevens:

Per your request, please find our response to the following questions received for the above referenced project:

COMMENT RESPONSES:

Comment 1: Will optional pipe be allowed for this project?

Response 1: Only RCP will be allowed for the storm drainage pipe. See attached revised Bid Form, Section 00300.

Comment 2: Who is contracting with a geotechnical engineering firm for testing services during construction?

Response 2: The County will contract with a geotechnical firm for testing services during construction. Please note this is specified in the Special Provisions under the section on "LABORATORY TESTING". This section also describes the responsibility of the Contractor for the cost of testing due to failed tests, etc.

In addition, the County requires that the contractor notify the testing firm at least 48 hours in advance to schedule required tests.

Comment 3: Will the County allow an alternate to crushed concrete base for the open cut across 28th Street Court East?

Response 3: Yes, full depth ABC asphalt will be allowed as an alternative to County detail 403.2, Utility Road Cut Replacement.

Comment 4: Is there a railroad crossing associated with the project?

Wade Trim, Inc.
 Renaissance 5
 8745 Henderson Road, Suite 220
 Tampa, FL 33634

813.882.8366
 888.499.9624
 813.884.5990 fax
 www.wadetrim.com



- Response 4:** No, therefore the items in the Special Provisions listed under the section titled "COORDINATION WITH CSX", are not required.
- Comment 5: Where were the soil borings shown on the plans taken from and is the soil sufficient to use as backfill over the proposed pipes?
- Response 5:** It is the Contractor's responsibility to conduct any site investigation necessary to determine the suitability of the soil for backfill. Soil data reflected on bid plans was a composite of previous roadway construction projects and was added for informational purposes only.
- Comment 6: Who will do the construction stakeout and as-builts?
- Response 6:** The contractor will be responsible for construction stake out and signed and sealed as-builts as specified in the Special Provisions, RECORD DRAWINGS AND PROJECT CERTIFICATION.
- Comment 7: Who will do the utility coordination?
- Response 7:** The contractor will be responsible for utility coordination.
- Comment 8: Paragraph one of the Project Schedule in the Special Provisions requires a preliminary schedule with the bid, is this required?
- Response 8:** A preliminary schedule will not be required to be submitted with the bid.
- Comment 9: Bid item no. 26, Steel Casing, F&I, 14", the bid quantity is inadequate for this item. Plans show 2 (two) locations for installing steel casing. Please review and clarify.
- Response 9:** Bid item no. 26 should read 20-feet of 14-inch split steel casing. 14-inch split steel casing shall be installed as shown on sheet 7. The note stating "14-inch steel casing to extend 10-feet on either side of proposed storm pipe" shall not apply to this location. Additional casing will be required for the 10-inch water main at station 228+20. See revised Bid Form.
- Comment 10: The 10-inch water main we may have to install a steel casing around, what size casing, will a bid item be added, will casing spacers be require? Please clarify.
- Response 10:** 35-feet of 20-inch split steel casing will be required to protect the 10-inch water main crossing the pipe at approximately station

228+20. Casing spacers will be required and the cost should be included in the 20" steel casing pay item. See revised Bid Form.

Comment 11: With regard to the water main work, more specifically the 14-inch steel casing, are we to include the costs for casing spacers with this bid item?

Response 11: Yes, add spacer cost.

Comment 12: Is there a railroad crossing associated with the project?

Response 12: No, see revised Special Provisions; reference to railroad crossings has been removed.

Comment 13: Plan sheet 6, storm structure no. 7, this structure exceeds F.D.O.T. size parameters for precast and will have to be formed and poured in place in the field. The County needs to have their design consultant prepare a structural drawing and include in the bid documents for us to bid this structure by.

Response 13: Structural Details sheets S-1 and S-2 have been added to the plan set for clarification.

Comment 14: Special Provisions of the specifications, page 7, ALTERNATIVE TRAFFIC CONTROL PLAN, there is no Traffic Control Plan in the Contract Documents as this paragraph indicates. Please clarify.

Response 14: There is no Alternative Traffic Control Plan required at this time. This item has been removed from the revised Special Provisions. Contractor is required to prepare and submit a Maintenance of Traffic Plan to the County.

Comment 15: We are an Engineering firm with a General Contractors License, Would we still need to have a Underground License for bidding Canal Road IFB 09-2569-DS?

Response 15: A General Contractors License is sufficient qualifications to act as prime for this project.

Comment 16: It has just come to my attention that the bid quantity for bid item no. 14, Manhole J-7, <10', Modified, does not agree with what the plans are showing to be constructed. Please ask the project manager to look into this and clarify.

Response 16: Please see revised Bid Form.

Comment 17: On plan sheet 7, there is a note that reads "CONTRACTOR TO HOLD & STABILIZE CONCRETE SIGNAL POLE DURING CONSTRUCTION AND INSURE EARTHEN STABILITY AND COMPACTION AROUND POLE AFTER PIPE INSTALLATION". The pole this note is referring to currently does not exist at the site. Will this signal pole be installed prior to this pipeline being constructed or will installation of this signal pole come later?

Response 17: **The pole should be in place prior to construction. The Bidder is advised that the location of this pole will vary and could be located to the east of the proposed stormwater pipe system.**

Comment 18: Where are the soil boring data for the project? Will the subsurface soil exploration report be available?

Response 18: **No geotechnical exploration was performed for this design. Geotechnical data reflected on the plans is for reference only and was originally gathered from previous work performed on Canal Road.**

PLAN REVISIONS and UPDATE:

Item 1: Please be aware that an abandoned 10-inch ductile iron water main crosses the proposed stormwater pipe system at approximately 227+40 and then runs parallel to the project for the entire length of the project.

Item 2: Plan Sheet 2, Summary of Pay Items has been revised to reflect quantity updates.

Item 3: Sheets S-1 and S-2 have been added to the plans to provide details for structure S-7.

Item 4: The Special Provisions have been updated to incorporate the comments and revisions referenced above. The following items have updated or added:

a. The sections, "Discretionary Work" and "Miscellaneous Work and Cleanup" have been moved to the "Measurements and Payments" section as subtasks:

h. "Discretionary Work"

i. "Miscellaneous Work and Cleanup"

b. The following subtasks have been added to the Measurement and Payment section:

j. "Steel Casing"

Ms. Donna M. Stevens
August 3, 2009
Page 5

- k. "6-inch Ductile Iron Pipe Water Main"
- l. "6-inch, 45-degree Bends"
- c. The subtask "Floating turbidity barriers and staked turbidity barriers" under section "Soil Erosion and Siltation" has been changed to "Floating turbidity barriers".
- d. The section "Temporary Pavement" has been updated.
- e. The section "Alternate Traffic Control Plan" has been removed.
- f. The section "Coordination with CSX" has been removed.
- g. The section "Record Drawing and Project Certification" has been modified.
- h. The section "Post-Construction Storm Pipe Testing" has been modified.

If you have any questions or require additional information, please do not hesitate to contact us.

Sincerely,

WADE TRIM, INC.



Michael Reineke
Project Manager

MR:sog:jjc
MTE2107.01M (330)
P:\Mte2107\01m\Admin-support\Correspondence\Addendum080309.docx

Attachment

cc: Jeff Streitmatter, Manatee County



MANATEE COUNTY
FLORIDA

Canal Road Stormwater Piping

The following clarification is being provided as the result of questions asked at the information conference held on July 16 2009 at 3:30 pm.

Question: Will it be allowed to close 28th Street?

Response: The Contractor will be allowed to close 28th Street Court East during installation of the storm pipe and subsequent restoration. All requirements for road closures and Maintenance of Traffic (MOT) shall be in force.

7/22/09

Jeff Streitmatter
Project Management

Public Works Department - Project Management Division
Mailing Address: P.O. BOX 1000, Bradenton, FL 34206-1000 * Street Address: 1022 26th Avenue East, Bradenton, FL 34208
PHONE: 941.708.7450 * FAX: 941.708.7549
www.myanatee.org

LARRY BUSTLE * DR GWENDOLYN Y. BROWN * JOHN R. CHAPPIE * RON GETMAN * DONNA G. HAYES * CAROL WHITMORE * JOE MCCLASH
District 1 District 2 District 3 District 4 District 5 District 6 District 7

PAY ITEM QUANTITIES:

ITEM	PAY ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
1	101-1	Mobilization	LS	1
2	102-1	Maintenance of Traffic	LS	1
3	104-10-2	Synthetic Bases	LF	20
4	104-11	Floating Turbidity Barrier	LF	45
5	110-1-1	Cleaning & Gubbing	LS	1
6	120-1	Regular Excavation	CY	3219
7	120-5	Embankment (inc. final grading work)	CY	4097
8	285-705	Optional Base, Group 5	SY	70
9	327-70-1	Milling Existing Asphalt Pavement, 1"	SY	94
10	334-1-1	Suppave Asphalt Conc. Traffic A, SP-9.5	TN	11.6
11	400-1-2	Concrete Class I, Endwalls	CY	11.6
12	400-1-15	Concrete Class I, Miscellaneous	CY	0.2
13	425-1-583	DBI Type H, J Bol, <10', Mod	EA	7
14	425-2-71	MH, J,7, <10', Mod	EA	3
15	430-175-101	Pipe Culvert, RCP, 0-24'S/CD	LF	16
16	430-175-202	Pipe Culvert, ERCP, 25-36'S/CD	LF	34
17	430-175-203	Pipe Culvert, ERCP, 37-48'S/CD	LF	2590
18	520-1-10	Concrete Curb and Gutter, Type F	LF	35
19	536-73	Guardrail Removal	LF	1198
20	570-1-2	Performance Turf, Sod	SY	6394
21	630-1-12	Signals-Conduit, F&I, Underground	LF	15
22	635-1-11	Pull & Junction Boxes, F&I, Pull Box	EA	1
23	660-2-106	Loop Detector, Inductive, F&I, Type F	EA	2
24	700-20-40	Single Post Sign (Rectoate)	AS	1
25		Miscellaneous Work and Cleanup	LS	1
26		Discretionary Work (Roadway)		
26		Steel Casing, 14"	LF	20
27		Steel Casing, 20"	LF	35
28		6" DIP Class 50 Waterman (RJ)	LF	35
29		6" 45° Bend	EA	4
29		Discretionary Work (Utilities)		

PAY ITEM NOTES:

120-1 CONTRACTOR IS ADVISED OF THE POTENTIAL OF SHALLOW UNDERGROUND UTILITIES IN THE PROJECT AREA. ROCK EXCAVATION SHALL BE NECESSARY TO RELOCATE AND PROTECT ALL UTILITIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS. PAYMENT WILL BE MADE FOR ROCK EXCAVATION.

DESIGNED BY	WR	DATE	06/01/09	REVISION DESCRIPTION & DATE	BR NO.	
CHECKED BY	JF	DATE	06/01/09	REVISED PER ACADEMIC: J/25/09	BR 1	
DRAWN BY	BG	DATE	06/01/09			
CHECKED BY	LS	DATE	06/01/09			
SUPERVISED BY	DAVID O THELME, PE #47266					



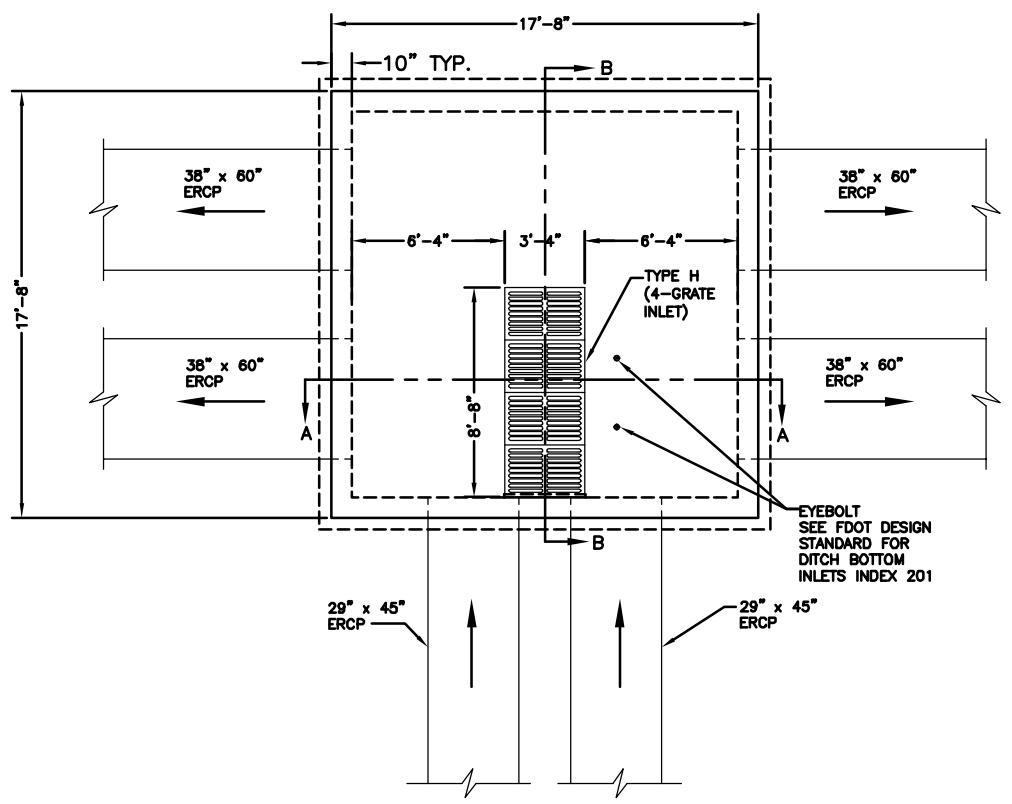
CANAL ROAD PIPING
FINAL DESIGN
FROM 24TH STREET EAST TO 29TH STREET EAST
MANATEE COUNTY, FLORIDA



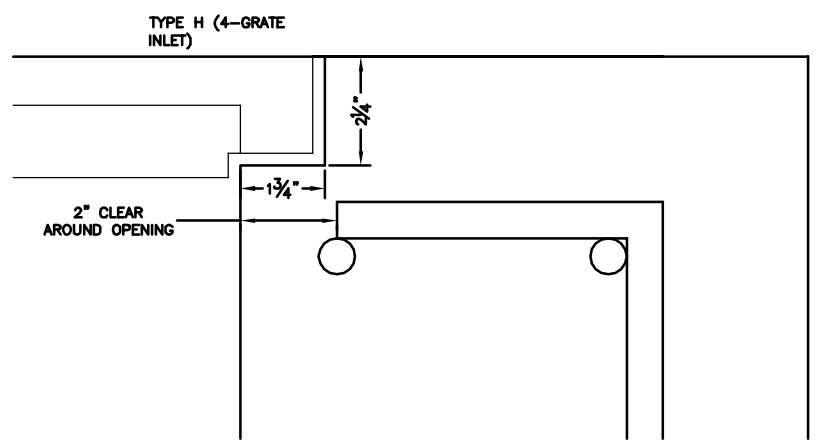
ENGINEER

Proj No. 6067300
Orig Date 06/01/09

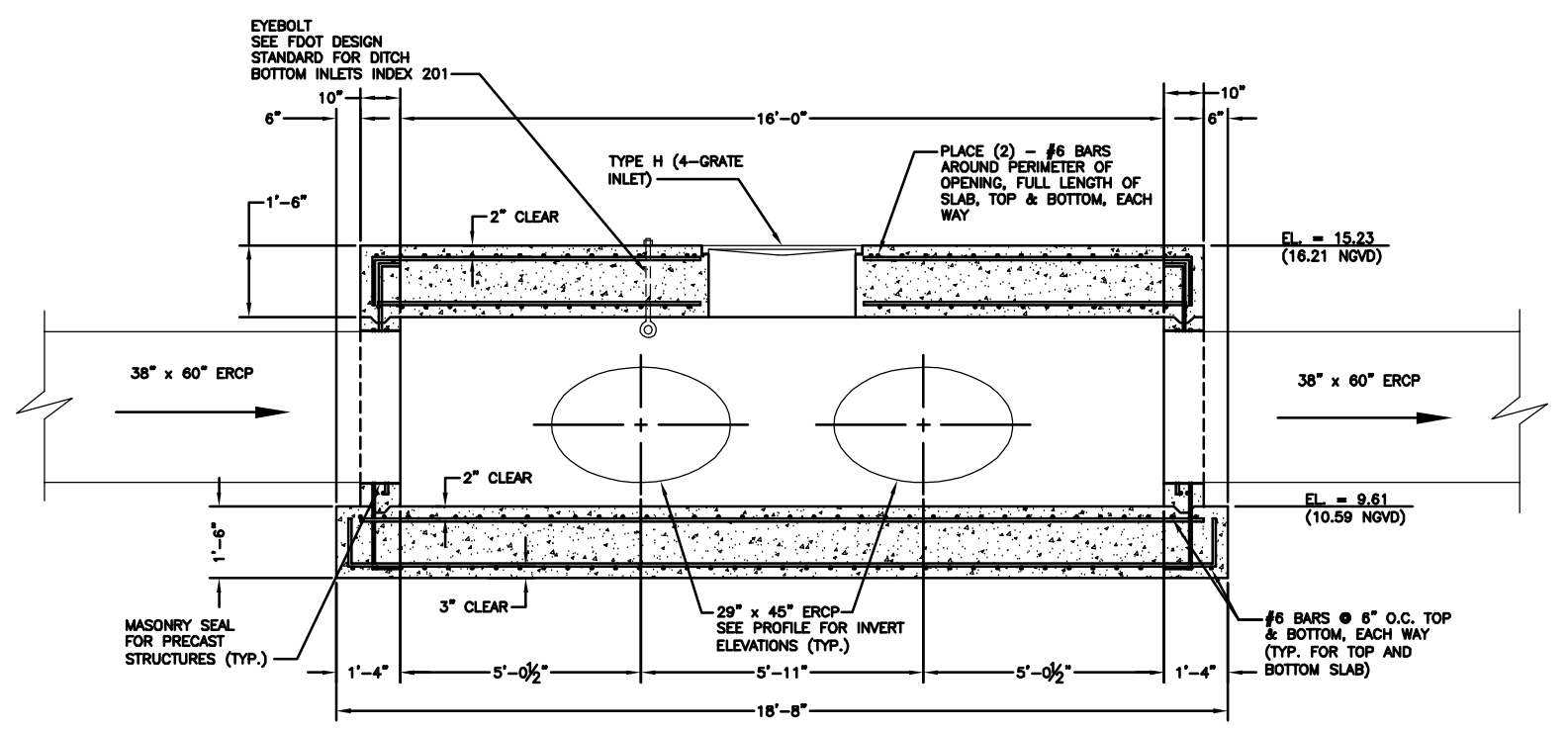
SUMMARY OF PAY ITEMS



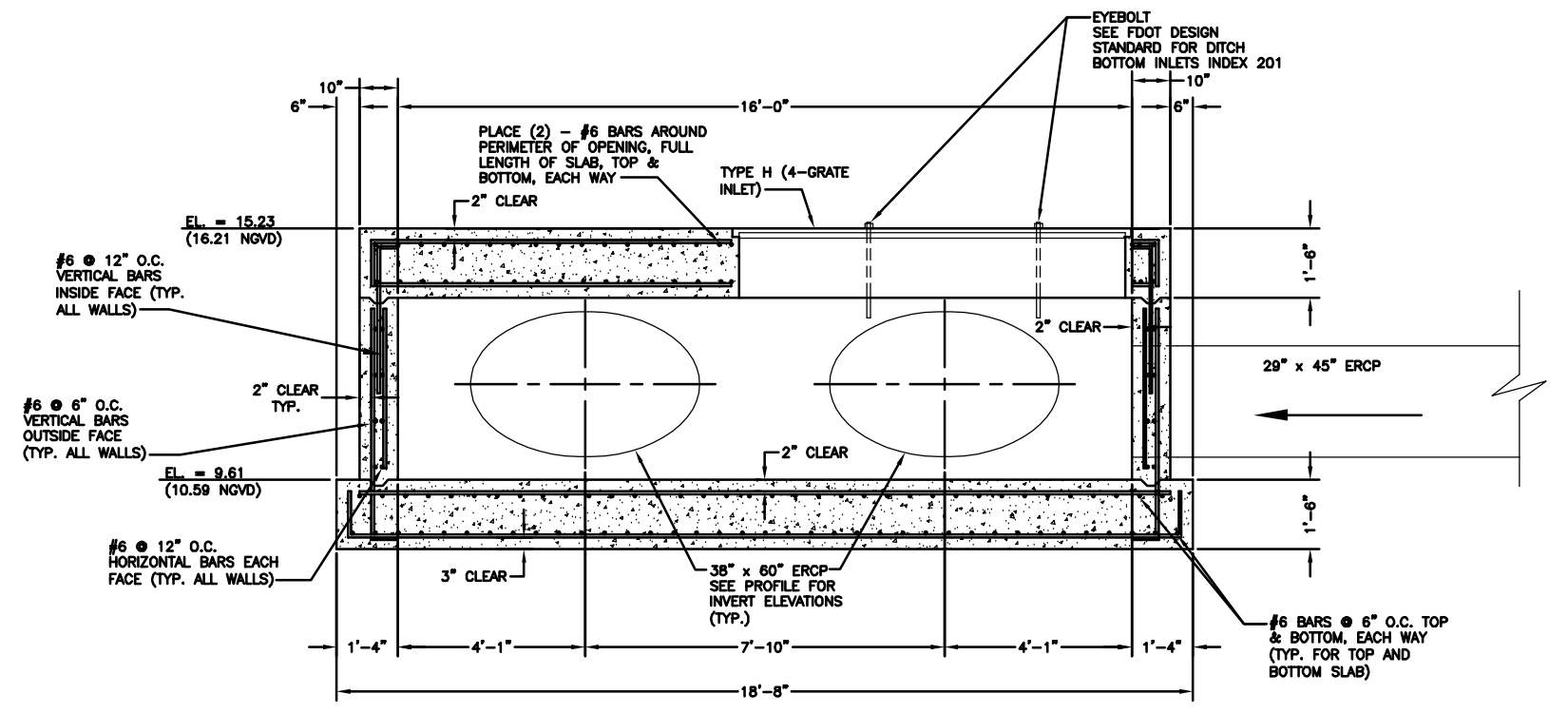
STRUCTURE S-7 PLAN VIEW
SCALE: 1/4" = 1'-0"



GRATING LEDGE (TYP.)
SCALE: 6" = 1'-0"



SECTION A-A
SCALE: 1/2" = 1'-0"



SECTION B-B
SCALE: 1/2" = 1'-0"

NOTE:
THIS SECTION REPRESENTS THE NORTH SIDE OF THE STRUCTURE. THE SOUTH SIDE IS THE MIRROR IMAGE OF THE NORTH SIDE.

NOTE:
SCALES ON THIS DRAWING IS BASED ON PRINTING THIS SHEET AS A 11x17 SIZED SHEET OF PAPER.

DESIGNED BY	MMD	DATE	07/30/09	REVISION DESCRIPTION & DATE	BY	NO.
CHECKED BY	SEW	DATE	07/30/09
DRAWN BY	JRC	DATE	07/30/09			
CHECKED BY	SEW	DATE	07/30/09			
SUPERVISED BY	DAVID O. THEUNG, PE		44786			



**CANAL ROAD PIPING
FINAL DESIGN**
FROM 24TH STREET EAST TO 29TH STREET EAST
MANATEE COUNTY, FLORIDA

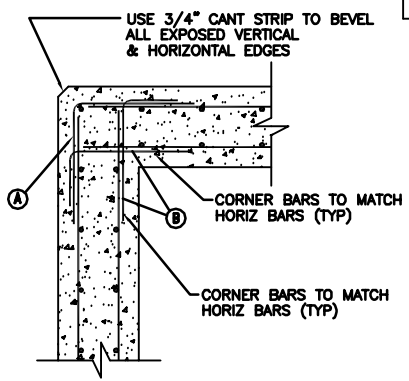


ENGINEER	Proj. No. 6067300
	Dwg. Date 07/30/09

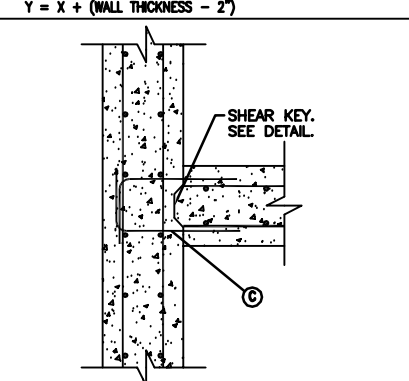
PLAN & PROFILE

CORNER BAR SCHEDULE					
BAR SIZE	X	Z	BAR SIZE	X	Z
#4	2'-1"	10"	#8	5'-2"	1'-7"
#5	2'-7"	1'-0"	#9	5'-10"	2'-0"
#6	3'-1"	1'-3"	#10	6'-6"	2'-3"
#7	4'-6"	1'-5"	#11	7'-1"	2'-1"

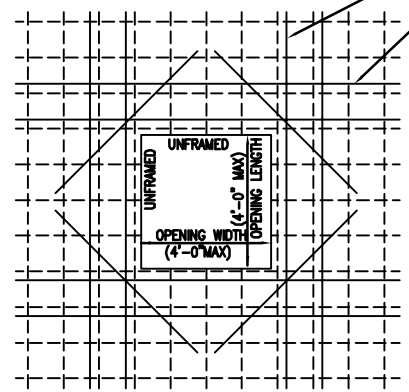
Y = X + (WALL THICKNESS - 2")



TYPICAL CORNER DETAIL
NO SCALE

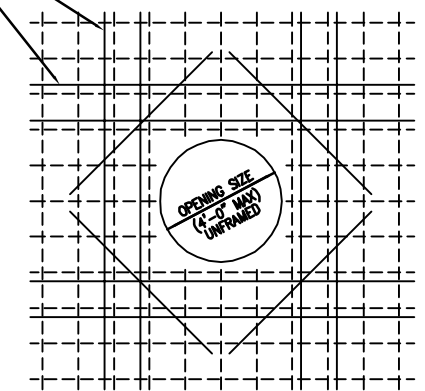


TYPICAL WALL INTERSECTION
NO SCALE



**UNFRAMED OPENING DETAIL
PLAN-RECTANGULAR SLAB OPENING
ELEV.-RECTANGULAR WALL OPENING**
NO SCALE

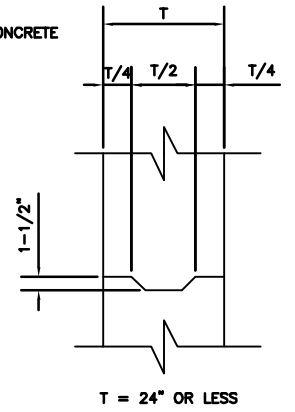
DIAGONAL BARS & ALL OPENINGS				
SLAB OR WALL THICKNESS		DIAG. BARS - (4) SIDES OF OPENING; EQUAL SPACING		
FROM	TO & INCLUDING	NO.	BAR SIZE	LENGTH
0	8"	1	#4	3'-0"
8"	16"	2	#5	4'-0"
16"	24"	2	#6	5'-0"
24"	32"	3	#6	5'-0"
32"	40"	3	#7	6'-0"



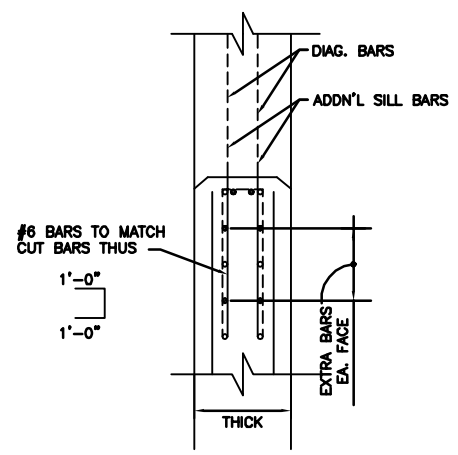
**UNFRAMED OPENING DETAIL
PLAN-CIRCULAR SLAB OPENING
ELEV.-CIRCULAR WALL OPENING**
NO SCALE

NORMAL WEIGHT CONCRETE REBAR LAP LENGTH SCHEDULE				
BAR SIZE	STANDARD CLASS A SPLICE	TOP BAR CLASS A SPLICE	STANDARD CLASS B SPLICE	TOP BAR CLASS B SPLICE
#3	1'-3"	1'-7"	1'-7"	2'-0"
#4	1'-7"	2'-1"	2'-1"	2'-8"
#5	2'-0"	2'-7"	2'-7"	3'-4"
#6	2'-5"	3'-1"	3'-1"	4'-1"
#7	3'-6"	4'-6"	4'-6"	5'-11"
#8	4'-0"	5'-2"	5'-2"	6'-9"
#9	4'-6"	5'-10"	5'-10"	7'-7"
#10	5'-0"	6'-8"	6'-8"	8'-5"
#11	5'-6"	7'-1"	7'-1"	9'-3"

WIRE MESH OVERLAP BETWEEN LAST CROSS WIRE OF EACH FABRIC = WIRE SPACING + 2" -> MIN 8" LAP
BASED OFF OF ACI 318-99, F'c = 4,000 psi



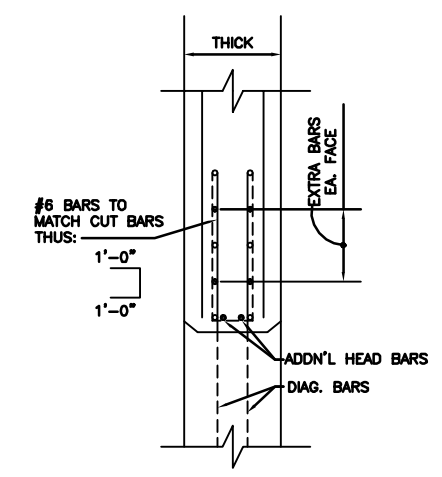
TYPICAL SHEAR KEYS
NO SCALE



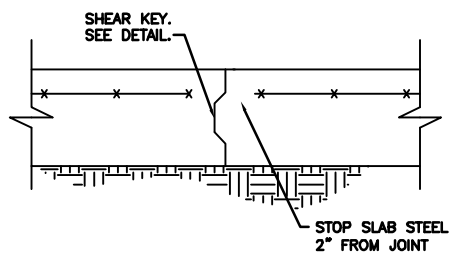
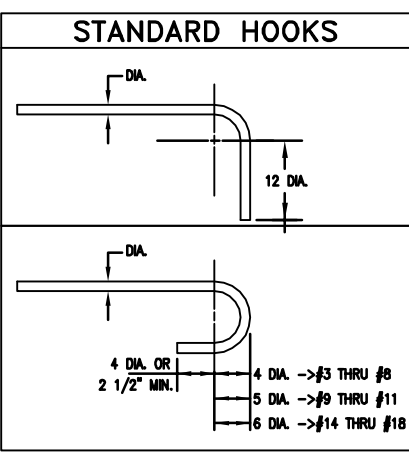
WALL-SILL DETAIL
NO SCALE

OPENING REINFORCEMENT SCHEDULE				
TYPE OF OPENING	THICKNESS	REINFORCEMENT REQUIRED		
		EXTRA	DIAGONAL	[- BARS
UNFRAMED	16" OR LESS	YES	YES	NO
	16" - 4'-0"	YES	YES	YES
FRAMED (BEAMS)	ALL	NO	YES	NO

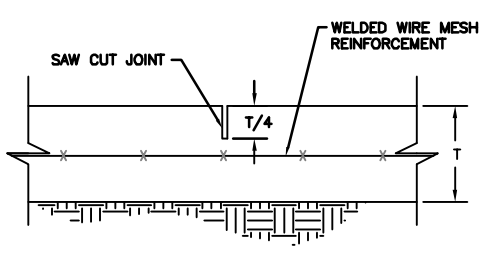
ALL OPENINGS LESS THAN 6" SPREAD REINFORCEMENT TO CLEAR; NO DIAGONALS REQUIRED



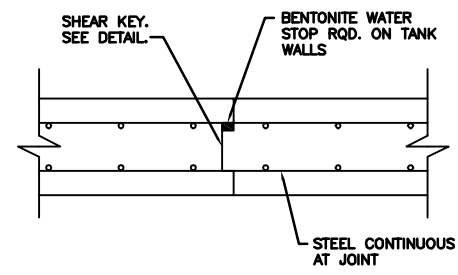
WALL-HEAD DETAIL
NO SCALE



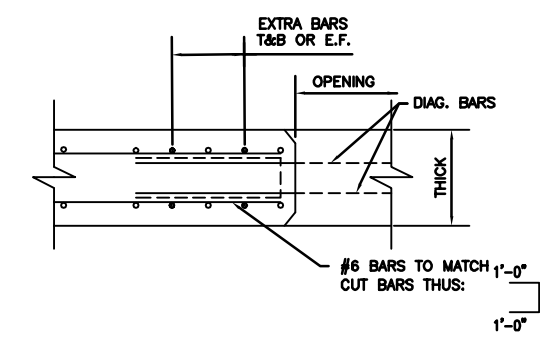
SLAB ON GRADE JOINTS
NO SCALE



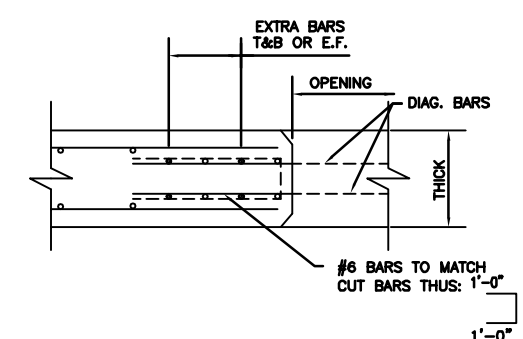
SAW CUT JOINTS
NO SCALE



WALL CONSTRUCTION JOINTS
NO SCALE



SLAB OPENING DETAIL OR WALL JAMB PLAN
NO SCALE



SLAB OPENING DETAIL OR WALL JAMB PLAN
NO SCALE

- CAST IN PLACE CONCRETE NOTES**
- ALL CONCRETE WORK SHALL BE DONE IN ACCORDANCE WITH THE LATEST ACI 318 CODE REQUIREMENTS AND STANDARDS.
 - CONCRETE SHALL BE A MINIMUM OF F'c = 4,000 psi AT 28 DAYS U.N.O. CONCRETE FOR TOWER WALLS/SLABS SHALL BE PER THE SPECIFICATIONS.
 - ALL REBAR SHALL BE HIGH STRENGTH NEW BILLET STEEL CONFORMING TO ASTM A615 GRADE 60. ALL DETAILS AND ACCESSORIES SHALL CONFORM TO THE LATEST ACI 315 STANDARD DETAILING MANUAL.
 - ALL WELDED WIRE FABRIC SHALL CONFORM TO ASTM A185.
 - ALL WELD PLATES AND MISCELLANEOUS STEEL SHALL BE Fy = 36 ksi.
 - WELDED CONNECTIONS SHALL CONFORM TO THE AWS STRUCTURAL WELDING CODE AND USE 70 ksi ELECTRODES.
 - REINFORCEMENT PROTECTION SHALL BE AS FOLLOWS U.N.O. CONCRETE POURED AGAINST EARTH
3" ALL OTHER CONCRETE
2"
 - ALL EMBEDDED ITEMS SHALL BE PLACED IN THE FORM WORK PRIOR TO PLACING CONCRETE. DRILLING AND GROUTING IS ACCEPTABLE SUBJECT TO ENGINEER APPROVAL.
 - ALL BOLTS, NUTS, WASHERS, PLATES, AND ANCHOR BOLTS IN DIRECT OR INTERMITTENT CONTACT WITH WATER SHALL BE HOT DIPPED GALVANIZED PER LATEST ASTM STANDARDS (U.O.N.).
 - BACKFILL SHALL BE PLACED UNIFORMLY ON BOTH SIDES OF TANK WALLS. SEE SOIL BORING REPORT FOR FURTHER BACKFILLING RECOMMENDATIONS.
 - ALL FOOTINGS AND SLABS SHALL BEAR ON SAND COMPACTED TO 98% MAXIMUM DENSITY AS DETERMINED BY THE MODIFIED PROCTOR METHOD.
 - ALL SLABS ON GRADE SHALL BE PLACED OVER A MINIMUM OF 4" OF COMPACTED SAND FILL. PITCH ALL SLABS TO DRAIN WHERE INDICATED WITHOUT REDUCING THE THICKNESS OF THE SLAB.
 - FIELD WELDING OF REINFORCEMENT IS NOT PERMITTED WITHOUT WRITTEN CONSENT OF THE ENGINEER.
 - FIELD BEND BARS COLD. DO NOT FIELD BEND BARS WITH EAT OR BARS PARTIALLY EMBEDDED IN CONCRETE.
 - ALL EXTERIOR CONCRETE INCLUDING WALLS SHALL BE AIR-ENTRAINED.
 - CONTRACTOR SHALL SUBMIT CONCRETE MIX DESIGNS INCLUDING AGGREGATE GRADATIONS, WATER/CEMENT RATIOS, THEORETICAL YIELD, CEMENT DATA, ADMIXTURE DATA AND CYLINDER TEST RESULTS.

DESIGNED BY	MMD	DATE	07/30/09
CHECKED BY	SEW	DATE	07/30/09
DRAWN BY	JRC	DATE	07/30/09
CHECKED BY	MMD	DATE	07/30/09
SUPERVISED BY	DAVID O. THEUNG, PE 44786		

REVISION	DESCRIPTION & DATE	BY	NO.
...



**CANAL ROAD PIPING
FINAL DESIGN**
FROM 24TH STREET EAST TO 29TH STREET EAST
MANATEE COUNTY, FLORIDA



ENGINEER	Proj. No. 6067300
	Dwg. Date 07/30/09
PLAN & PROFILE	

**BID FORM
SECTION 00300**

(Submit in Triplicate)

IFB# 09-2569-DS

(Page 1 of 2)

(ADDENDUM #1)

(Bid "A" - Based on Completion Time of 220 Calendar Days)

PROJECT NAME:		Canal Road Stormwater Piping from 24 th St. East to 29 th St. East				
PROJECT NUMBER		6067300				
Item No.	FDOT ITEM	DESCRIPTION	U/M	QTY.	BID PRICE PER UNIT	TOTAL BID PRICE
1	101-1	Mobilization	LS	1	\$	\$
2	102-1	Maintenance of Traffic	LS	1	\$	\$
3	104-10-2	Synthetic Bales	LF	20	\$	\$
4	104-11	Floating Turbidity Barrier	LF	45	\$	\$
5	110-1-1	Clearing & Grubbing	LS	1	\$	\$
6	120-1	Regular Excavation (Addendum #1)	CY	3219	\$	\$
7	120-6	Embankment (Inc. final grading work) (Addendum #1)	CY	4097	\$	\$
8	285-705	Optional Base, Group 5 (Addendum #1)	SY	70	\$	\$
9	327-70-1	Milling Existing Asphalt Pavement, 1" (Addendum #1)	SY	94	\$	\$
10	334-1-11	Superpave Asphaltic Conc, Traffic A, SP-9.5 (Addendum #1)	TN	11.6	\$	\$
11	400-1-2	Concrete Class I, Endwalls	CY	11.6	\$	\$
12	400-1-15	Concrete Class I, Miscellaneous	CY	0.2	\$	\$
13	425-1-583	DBI Type H, J. Bot. <10'. Mod	EA	7	\$	\$
14	425-2-71	MH, J-7, <10', Mod (Addendum #1)	EA	3	\$	\$
15	430-175-101	Pipe Culvert, RCP, 0-24"S/CD (Addendum #1)	LF	16	\$	\$
16	430-175-202	Pipe Culvert, ERCP, 25-36"S/CD (Addendum #1)	LF	34	\$	\$
17	430-175-203	Pipe Culvert, ERCP, 37-48"S/CD (Addendum #1)	LF	2590	\$	\$

BIDDER _____

DATE _____

**BID FORM
SECTION 00300**

(Submit in Triplicate)

IFB# 09-2569-DS

(Page 2 of 2)

(ADDENDUM # 1)

(Bid "A" - Based on Completion Time of 220 Calendar Days)

PROJECT NAME:		Canal Road Stormwater Piping from 24 th St. East to 29 th St. East				
PROJECT NUMBER		6067300				
Item No.	FDOT ITEM	DESCRIPTION	U/M	QTY.	BID PRICE PER UNIT	TOTAL BID PRICE
18	520-1-10	Concrete Curb and Gutter, Type F	LF	35	\$	\$
19	536-73	Guardrail Removal	LF	1196	\$	\$
20	570-1-2	Performance Turf, Sod	SY	6584	\$	\$
21	630-1-12	Signals-Conduit, F & I Underground	LF	15	\$	\$
22	635-1-11	Pull & Junction Boxes, F & I, Pull Box	EA	1	\$	\$
23	660-2-106	Loop Detector, Inductive, F & I Type F	EA	2	\$	\$
24	700-20-40	Single Post Sign (Relocate)	AS	1	\$	\$
25		MISCELLANEOUS WORK AND CLEANUP	LS	1	\$	\$
		DISCRETIONARY WORK (ROADWAY)				\$52,500.00
		SUBTOTAL ROADWAY				\$
26		Steel Casing, 14" (Addendum #1)	LF	20	\$	\$
27		Steel Casing, 20" (Addendum #1)	LF	35	\$	\$
28		6" DIP Class 50 Watermain (RJ)	LF	35	\$	\$
29		6" 45 ° (degree) Bend	EA	4	\$	\$
		DISCRETIONARY WORK (UTILITIES)				\$2,000.00
		SUBTOTAL UTILITIES				\$
		TOTAL BID PRICE				\$

BIDDER _____

DATE _____

**BID FORM
SECTION 00300**

(Submit in Triplicate)

IFB# 09-2569-DS

(Page 1 of 2)

(ADDENDUM #1)

(Bid "B" - Based on Completion Time of 160 Calendar Days)

PROJECT NAME: Canal Road Stormwater Piping from 24th St. East to 29th St. East PROJECT NUMBER 6067300						
Item No.	FDOT ITEM	DESCRIPTION	U/M	QTY.	BID PRICE PER UNIT	TOTAL BID PRICE
1	101-1	Mobilization	LS	1	\$	\$
2	102-1	Maintenance of Traffic	LS	1	\$	\$
3	104-10-2	Synthetic Bales	LF	20	\$	\$
4	104-11	Floating Turbidity Barrier	LF	45	\$	\$
5	110-1-1	Clearing & Grubbing	LS	1	\$	\$
6	120-1	Regular Excavation (Addendum #1)	CY	3219	\$	\$
7	120-6	Embankment (Inc. final grading work) (Addendum #1)	CY	4097	\$	\$
8	285-705	Optional Base, Group 5 (Addendum #1)	SY	70	\$	\$
9	327-70-1	Milling Existing Asphalt Pavement, 1" (Addendum #1)	SY	94	\$	\$
10	334-1-11	Superpave Asphaltic Conc, Traffic A, SP-9.5 (Addendum #1)	TN	11.6	\$	\$
11	400-1-2	Concrete Class I, Endwalls	CY	11.6	\$	\$
12	400-1-15	Concrete Class I, Miscellaneous	CY	0.2	\$	\$
13	425-1-583	DBI Type H, J. Bot. <10', Mod	EA	7	\$	\$
14	425-2-71	MH, J-7, <10', Mod (Addendum #1)	EA	3	\$	\$
15	430-175-101	Pipe Culvert, RCP , 0-24"S/CD (Addendum #1)	LF	16	\$	\$
16	430-175-202	Pipe Culvert, ERCP , 25-36"S/CD (Addendum #1)	LF	34	\$	\$
17	430-175-203	Pipe Culvert, ERCP , 37-48"S/CD (Addendum #1)	LF	2590	\$	\$

BIDDER _____

DATE _____

**BID FORM
SECTION 00300**

(Submit in Triplicate)

IFB# 09-2569-DS

(Page 2 of 2)

(ADDENDUM #1)

(Bid "B" - Based on Completion Time of 160 Calendar Days)

PROJECT NAME:		Canal Road Stormwater Piping from 24 th St. East to 29 th St. East				
PROJECT NUMBER		6067300				
Item No.	FDOT ITEM	DESCRIPTION	U/M	QTY.	BID PRICE PER UNIT	TOTAL BID PRICE
18	520-1-10	Concrete Curb and Gutter, Type F	LF	35	\$	\$
19	536-73	Guardrail Removal	LF	1196	\$	\$
20	570-1-2	Performance Turf, Sod	SY	6584	\$	\$
21	630-1-12	Signals-Conduit, F & I Underground	LF	15	\$	\$
22	635-1-11	Pull & Junction Boxes, F & I, Pull Box	EA	1	\$	\$
23	660-2-106	Loop Detector, Inductive, F & I Type F	EA	2	\$	\$
24	700-20-40	Single Post Sign (Relocate)	AS	1	\$	\$
25		MISCELLANEOUS WORK AND CLEANUP	LS	1	\$	\$
		DISCRETIONARY WORK (ROADWAY)				\$52,500.00
		SUBTOTAL ROADWAY				\$
26		Steel Casing, 14" (Addendum #1)	LF	20	\$	\$
27		Steel Casing, 20" (Addendum #1)	LF	35	\$	\$
28		6" DIP Class 50 Watermain (RJ)	LF	35	\$	\$
29		6" 45 ° (degree) Bend	EA	4	\$	\$
		DISCRETIONARY WORK (UTILITIES)				\$2,000.00
		SUBTOTAL UTILITIES				\$
		TOTAL BID PRICE				\$

BIDDER: _____ DATE _____