Addendum #2

IFB SA 1701 COLCHESTER INTERCEPTOR SYSTEM IMPROVEMENTS

THIS SOLICITATION IS HEREBY AMENDED AS FOLLOWS:

1. Project Manual – Part 2 General Requirements and Attachment 1
3. Project Drawings – Attachment 3
4. Questions and Answers
5. All other solicitation terms, conditions and provisions remain unchanged and in full force and effect.

Acknowledgement: Contractors submitting for the above named project shall take note of the following changes, additions, deletions, clarification, etc., in the Contract Documents, which shall become a part of and have precedence over anything shown or described in the Contract Documents, and as such shall be taken into consideration and be included in the Contractor’s Bid Proposal. All other terms and conditions of the Invitation for Bid shall remain unchanged. Bidders must acknowledge receipt of this amendment by signing and returning this addendum with the bid response prior to the bid opening date and time and shall acknowledge the receipt of this addendum where designated on the Bid Form.

Authorized Signature

Date

Name Printed

Title

Company Name

Direct all inquiries to: Sarah Johnson, Prince William County Service Authority, T: (703)335-7922/ F: (703)335-7954, E-mail: purchasinggrouppemail@pwcsa.org
ADDENDUM NO. 2
TO THE CONTRACT DOCUMENTS
for the construction of
Colchester Interceptor System Improvements
IFB SA-1701

1. PROJECT MANUAL – PART 2 GENERAL REQUIREMENTS

   a. **New Section 01010**
      Add Section 01010 – Document Management; included in Attachment 1.

   b. **Part 1 – Agreement, Bonds and Related Documents**
      Remove Part 1 – Agreement, Bonds and Related Documents in its entirety and Replace with Attachment 2.

   c. **Section 01005**
      Page 01005/1 – Item 1.03 - Permits. Delete the 3rd paragraph “The Owner has acquired … by PWC to grant the permit” and Replace with “The Owner has acquired a letter of approval from Prince William County (PWC) for the Building Permit for Marumsco Acres Pump Station (Appendix E). The Contractor is responsible for obtaining the actual building permit from PWC, paying required fees, and meeting all requirements of the permit. PWC requires Special Inspection for this project. The Owner shall be responsible for arranging and obtaining a Third Party to perform the building code required Special Inspection and pay all costs in connection with this Special Inspection.”

   d. **Section 01025**
      Page 01025/4 – Item 2.04.A - Delete “Shall be by the hour as defined in Section 02401.2.01A6.b.” and Replace with “Measured based on the amount of Work completed that is consistent with the Contractor’s breakdown of the Work of the Microtunnel Installation on the approved Schedule of Values”

2. PROJECT MANUAL PART 3 TECHNICAL PROVISIONS/APPENDICES

   **Appendix E**
   Remove Appendix E in its entirety and Replace with Attachment 2.

3. PROJECT DRAWINGS

   Remove sheets 30, 31, 32, 39, 40, and 41; and Replace with sheets 30, 31, 32, 39, 40, and 41 included in Attachment 3.
4. QUESTIONS AND ANSWERS

Q1: Section 01025 – Measurement and Payment, Part 2 – Contract Items, 2.04 54” Sanitary Sewer (Microtunnel Installation) (Bid Item #4) A. Measurement: Shall be by the hour as defined in Section 02401.2.01A6.b. Should this read by Lump Sum? Revised. See Item I-d of this addendum.

Q2: Would BI Item #5 – Obstruction Removal time/payment start after the Section 02401.2.01A6.b? Or does this include time identified in 02401.01A6.b?
Time included in Bid Item #5 for the microtunneling obstruction removal starts after the authorization by the Engineer for the Contractor to proceed with removal of the obstruction.

Q3: Section 02710/3.B PVC Pipe states C900 and C905 PVC required... with wall thickness dimension ratio (DR) 18. PWCSA Approved Products List Note 2 – As of January 1, 2005, all PVC san. sewer mains ... shall be constructed of C-900 pipe (DR25). Please clarify which Section 02710 – Colchester or PWCSA Approved Products List takes precedence.
Products listed in the Project Manual supersedes PWCA Approved Product List.

Q4: Is Raven Lining only lining acceptable? All manholes to have Raven 405 interior coating (02730.2.01A6). Will PWCSA accept Sauerisen Sewerguard 210S, 210 RS or Versaflex 50 DM Polyurea Coating considered an acceptable equal?
Raven 405 is the only acceptable epoxy coating.

Q5: 02510(Force Main).2.02.D & F Products – Manufacturers and 02710 Gravity Sewer .2.01.C acceptable products does not correspond with PWCSA Approved Products List e.g. Hobas FRP – disapproved; Flowtite – not listed as approved; Air Release Vale by H-Tec – not listed; Val-matic plug valve – pending; Millikin valves – disapproved. Please confirm Products listed in Colchester Interceptor will be acceptable and supersedes PWCSA Approved Product List.
Products listed in the Project Manual supersedes PWCSA Approved Product List

Q6: VDOT permit states work hours 9 AM to 3 PM. The MTBM microtunnel operation normally is a 24-hour operation to completion once begun. Will VDOT allow/grant an exception/waiver for the tunnel operation under Featherstone Road?
Contractor is required to comply with VDOT Land Use Permit. A request for the exception should be discussed with VDOT. Suggested locations for the access pits area outside VDOT right of way.

Q7: General Conditions 28 of 89, 6.05 A. Builder’s Risk Insurance. Is this required for the pipeline portion as well as the pump station portion?
Yes
Q8: 02220 10 B Trench Backfill. Specs allow use of suitable excavated material for trench backfill. If insufficient, use Select Backfill (VDOT Type 1 select) if excavated material amount is insufficient, will Contractor be paid for Select Backfill as change order or must contractor make an assumption/allowance for select backfill quantities, if needed.
Contracts will not be paid for Select Backfill if excavated material is insufficient or unsuitable.

Q9: Section 02742 Television Inspection: TV inspection required for gravity sanitary ... and sanitary force main? Contractor to provide and perform TV inspection? Is this TV inspection different from the CCTV performed by PWCSA in Section 02602 3.03 A?
CCTV inspection under Section 02602.3.03.A will be completed by PWCSA for the purposes of testing and accepting gravity piping. All other CCTV inspections shall be completed by the Contractor.

Q10: Supplemental Cond. – property GPIN 8391-94-4514: To clarify, Work hours start 7 PM on Sat. thru Thurs (to 6AM). Friday and Saturday restricted to 1AM – 6AM. Time allowed on Friday is duplicated? Saturday has work hours 1AM to 6 AM, then 7 PM until 6 AM on Sunday? Is this PWCSA intent?
Supplementary Conditions – Item 1.2.B.2 is revised. See Attachment 2 this Addendum.

Q11: Please provide detail information necessary to acquire Railroad Liability Insurance such as number of trains per day, etc. per the CSX Agreement No. RFP0C1937002. It is not clear the $5 million occurrence clause is satisfactory information for obtaining R/R liability insurance. Is PWCSA the named agreement holder for CSX agreement no. RFP0C1937002? Answers to Questions such as: Number and speed of passenger trains; number and speed of freight trains; number and speed of switching trains during 24 hour period, during working hours are needed to acquire Railroad liability insurance. Can we assume the work shown is more than 50 feet away from the track even on plan sheets where right-of-way is shown but no track.? Is the spurline shown in plan sheet 10 still an active CSX ROW, to be held within limits of a R/R liability insurance
CSX Railroad Information included in Appendix C is for informational purposes. There is no actual CSX agreement held by PWCSA. If the Contractor deems it necessary to work within CSX right of way, the Contractor must obtain all required CSX permits.
The rail track shown on sheets 10 and 11 are not active and no CSX permitting is required for this area.

Q12: Milestone 1 – Pump station completion 300 days with exception Remove temp plug & divert flow, Connect 6” FM to 36” FM, and abandon 12” VCP. Any other work
other than exceptions not allowed after 300 days? E.g. continued work of 36” force main and bypass?

Work on the site (and only the site) of the pump station is limited to the 300 days; with the exceptions included in Supplementary Conditions – Item 1.4.

Q13: Plans call for PVC Force Main with exception of small designated length of DIP. Does contractor have option to use C905 PVC or DIP where PVC is specified? No. Use PVC and DIP as indicated on the drawings.

Q14: Much of the pipeline may be located in areas of marine clay. If the foundation is inadequate to support the pipe or prevent basal heave during trench excavation, will the county pay for additional measures such as pile bents or permanent steel shoring to stabilize the pipe system under a change order? How comfortable is PWCSA of the design within the known borings that the undercut item will be sufficient? The Bid Form includes Item 29 – Undercut Excavation and backfill. Additional measures for support and backfill will be evaluated on a case by case basis. PWCSA approval is required to proceed with the additional support measures and backfill.

Q15: I’m writing to inquire about the inclusion of J-M on the approved-for-use list of PVC pressure pipe (spec section 02510, page 4). It is our understanding that, due to previous and ongoing litigation surrounding J-M and their violation of the False Claims Act — and with the Commonwealth of Virginia being party to that lawsuit — J-M is not to be included for use on projects in the Commonwealth. Please confirm that J-M is able to be included on the approved-for-use list for this project.

PWCSA is unaware of any directive orders to prohibit using J-M pipe in Virginia.

Q16: Are the property owners responsible for clearing storage racks/building materials/vehicles out if the easement limits? Yes. The Contractor must give sufficient notice in advance to the land owners before starting construction on respective properties.

Q17: Please provide history of the existing gravity sewer. For example, how many pipe breaks or failures have occurred in the RCP or PVC sections? Has the RCP pipe shown corrosion along top half that would leave the pipe vulnerable to collapse if construction traffic is placed on top? What is the age of the RCP and/or PVC pipe? History of breaks of the existing pipe is not available. Contractor is responsible for protecting the existing facilities in accordance with General Conditions – Item 5.05(Page 19 of 89). Contractor must avoid heavy construction traffic over the pipeline until the bypass system is installed and fully operational, and the flow has been transferred off the existing system.
Q18: What is the area and depth of Marumsco Lake? Can the lake be pumped down during construction of the force main?
PWCSA has no information regarding the area and depth of Marumsco Lake. Contractor must seek PWC Parks and Recreation Department for approval of pumping down the lake.

Q19: Does PWCSA have a list of acceptable Grasscrete applicators acceptable from previous contracts? Specs call for a licensed contractor. Bomanite lists closest licensed contractor is in East Tennessee. Can PWCSA provide previous acceptable work and/or contractors?
PWCSA does not have a list of Grasscrete applicators. However, the list below has been provided by Bomanite as approved applicators. PWCSA does not recommend any applicator included (or not included) in the list. The Contractor will be required to provide a written letter of certification or approval by Bomanite.

<table>
<thead>
<tr>
<th>Bright Masonry, Inc</th>
<th>Blake Landscapes, Inc.</th>
<th>Commercial Concrete, Inc</th>
</tr>
</thead>
<tbody>
<tr>
<td>540.841.5010</td>
<td>703.777.5596</td>
<td>(703) 957-4913</td>
</tr>
<tr>
<td>Falls Church VA</td>
<td>Leesburg VA</td>
<td>Chantilly VA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Henley Construction Company, Inc.</td>
<td>Live Green Landscape Associates</td>
<td>Louis Smith Construction</td>
</tr>
<tr>
<td>301-417-1006</td>
<td>410.833.9640</td>
<td>804.794.0544</td>
</tr>
<tr>
<td>Gaithersburg MD</td>
<td>Owings Mills MD</td>
<td>Midlothian VA</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Millennium Construction</td>
<td>Pro-Pave, Inc.</td>
<td></td>
</tr>
<tr>
<td>703.635.8259</td>
<td>(703) 433-9500</td>
<td></td>
</tr>
<tr>
<td>Springfield VA</td>
<td>Sterling VA</td>
<td></td>
</tr>
</tbody>
</table>

End of Addendum No. 2
ATTACHMENT 1

SECTION 01010
DOCUMENTS MANAGEMENT
1.01 SUMMARY

A. The Owner, Engineer, Project Representative and the Contractor will utilize Oracle Primavera Contract Manager® for electronic submittals of all data and documents required by the Contract Documents (unless specified otherwise by the Owner). The Oracle Primavera Contract Manager® software licenses are owned, maintained, and operated by Arcadis as the Project Representative referenced in this specification section. The use of this application by the project team, as referenced, is to store project documents, electronically exchange project information and to expedite review of submitted project related documents.

B. Hard copies of all documents will be provided in accordance with the Contract Documents. Oracle Primavera Contract Manager® shall be used to track and expedite processing of these items. Acceptance of documents submitted via Oracle Primavera Contract Manager® shall not relieve the Contractor from responsibility for any variation from the requirements of the Contract Documents. In the event of a discrepancy between the electronic version and paper documents, the paper documents will govern.

1.02 RELATED DOCUMENTS and SECTIONS

Sections specified elsewhere may include but are not limited to:

Section 01300 – SUBMITTALS

1.03 PROJECT USERS and SOFTWARE ACCESS

A. The Project Representative will provide for Oracle Primavera Contract Manager® licenses and access for users as follows: PWCSA with three (3) licenses, the Engineer with two (2) licenses and two (2) licenses for the contractor’s project staff for processing submittals and RFI’s. If additional licenses are requested, the cost of each license per user is $582.00 each.

B. User access and access rights to the Oracle Primavera Contract Manager® site will be established, assigned and managed by the Project Representative for the Contractor.

C. The Project Representative will provide the Contractor access to Oracle Primavera Contract Manager® to allow submittal of documents including but not limited to: letters, Requests for Information (RFI’s), shop drawings, submittals, meeting minutes, daily reports, drawings, specifications, memorandums, payment requisitions, change order requests, testing reports, warranties and guarantees, and correspondence. RFI’s will be directly entered into Oracle Primavera Contract Manager®, and generated by Contract Manager, unless specified otherwise.
D. Sub-Contractors and suppliers will not have direct access to Oracle Primavera Contract Manager®. Entry of information exchanged and transferred between the Contractor and sub-contractors and suppliers will be the responsibility of the Contractor.

E. With prior written approval of the Owner and Project Representative, exceptions may be made to allow specific items to be transmitted, submitted, responded to, or distributed in paper copy only. In these instances, Oracle Primavera Contract Manager® shall be used to track and expedite processing these items.

F. Access to modules is managed by permission levels configured by the Project Representative. Request to change permission levels must be submitted to the Project Representative.

1.04 OWNERSHIP OF DATA

A. All Data entered into Oracle Primavera Contract Manager® will be the sole property of the Owner.

1.05 COMPUTER REQUIREMENTS

A. Oracle Primavera Contract Manager® is accessed via the internet through a web browser using Java run-time plug-in technologies. The Contractor will use computer hardware and software that meets the requirements of Oracle Primavera Contract Manager® system. The Project Representative will not operate, install, or troubleshoot any of the Contractor’s hardware or software. The Contractor is solely responsible for the functionality of their systems.

B. The Owner or Project Representative will accept no liabilities arising from the Contractor use of Oracle Primavera Contract Manager®.

1.06 CONTRACTOR’S RESPONSIBILITY

A. The Contractor will be responsible for the validity of the information placed in Oracle Primavera Contract Manager® as well as the abilities of their personnel to use the application.

B. The Project Representative will provide an overview of the setup and submittal processes associated with Oracle Primavera Contract Manager® which will be presented to the Contractor, Owner, and Engineer. The Contractor is responsible for training their personnel in the use of Oracle Primavera Contract Manager®. All costs associated with the use of this system will be evenly distributed in the project overheads and spread across the duration of the contract; a separate added cost will not be allowed.

C. The Project Representative will schedule a meeting with the Contractor, Owner and Engineer within twenty-one (21) calendar days after the Contract is awarded to discuss
the use of Oracle Primavera Contract Manager® and information needed from the Owner, Engineer, and Contractor.

C. The Contractor will protect the security of the Oracle Primavera Contract Manager® system by limiting access to authorized users only and not allowing ‘sharing’ of usernames.

D. The Contractor will comply with applicable laws and regulations regarding electronic transmission of documents requiring professional architects', engineers', geologists', and surveyors' stamps or signatures, including provision of hard copies of such documents as appropriate.

E. The Contractor nor his representatives, users, sub-consultants and subcontractors will not enter, attach or store sensitive personal information such as Social Security numbers in Oracle Primavera Contract Manager®.

F. Project Communications that require the signature of authorized persons will use either:

   1. An approved “image” of the official signature affixed to the document. Also provide the Project Representative with the original signed hard copy/paper document.

   2. An electronic copy or electronic image of a fully executed document containing the required signatures. Also provide the Project Representative with the original signed hard copy/paper document.

1.07 INTERNET CONNECTIVITY

A. Oracle Primavera Contract Manager® is a web-based environment and therefore subject to the inherent speed and connectivity issues of the Contractor's internet service provider. The Contractor is responsible for his own connectivity to the internet. Oracle Primavera Contract Manager® response time is dependent on user’s equipment, including processor speed, network interface equipment, internet service provider access speed, etc. and current traffic on the internet.

B. The Project Representative or Owner will not be liable for any delays associated from the use of Oracle Primavera Contract Manager® including, but not limited to: slow response time, down time periods, connectivity problems, or loss of information on the Contractor’s equipment.

C. Under no circumstances will the usage of the Oracle Primavera Contract Manager® be grounds for a time extension or cost adjustment to the contract.

D. Access to Oracle Primavera Contract Manager® will be operational upon receipt of the Notice of Award.
1.08 CONTRACT MANAGER DOWNTIME

A. In the event the Oracle Primavera Contract Manager® system is temporarily unavailable, the Contractor will continue with Project Communications utilizing alternate secure means (e-mail) or hard copies to transmit and receive Project Communications.

B. Maintain records of all Project Communications during the Oracle Primavera Contract Manager® downtime and upload the records when it is operational.

C. Notify the Project Representative by telephone and/or email when Contract Manager is not functional.

PART 2 PRODUCTS

2.01 PRIMAVERA CONTRACT MANAGER® v. 14

A. Web-based electronic information management application as owned and operated by Arcadis (Project Representative).

PART 3 EXECUTION

3.01 ORACLE PRIMAVERA CONTRACT MANAGER® OVERVIEW AND TRAINING

A. Prior to providing access to Oracle Primavera Contract Manager® an overview for the Contractor will be held at the site. The Project Representative will conduct this overview. The overview will include:

1. Oracle Primavera Contract Manager® site location (URL) and log on process
2. Navigation through Oracle Primavera Contract Manager®
3. Uploading documents; including but not limited to RFI’s, Submittals and other documents
4. Submittal Review process
5. RFI Review process
6. Correspondence requirements
7. Submittal of Payment Requisitions.
8. Close-out Documents Submittals
9. User Access Requirements

B. The Contractor will provide the Project Representative with completed account forms for all its intended Oracle Primavera Contract Manager® users, and information on contacts such as key personnel, sub-consultants, sub-contractors, vendors, etc. as required by the Contract.

C. The Project Representative will setup the Contract in Contract Manager.
3.02 COMMUNICATIONS

A. All official documents attached to Oracle Primavera Contract Manager® will be in one complete Portable Document Format (PDF) electronic file. These official PDF document files will include duly executed signatures as required by the Contract. Supporting source document files (MS Word, Spreadsheets, photos, P6, etc.) may also be attached when so required.

B. Date that the Contractor enters a document into Oracle Primavera Contract Manager® will be recorded as the date received by the Project Representative with the following exceptions:

1. All Project Communications submitted to the Project Representative through Oracle Primavera Contract Manager® after 3:00 p.m., Eastern Time, Monday through Friday, will be acknowledged no earlier than the following regular business day.
2. For Project Communication purposes, business days and hours are defined as Monday through Friday, 8:00 a.m. to 3:00 p.m., Eastern Time, excluding PWCSA holidays.

PART 4 MEASUREMENT AND PAYMENT

4.01 MEASUREMENT

Work for Document Management will not be measured separately for payment. No separate payment will be made for work under this Section. Payment for document management shall be considered incidental and included in the payment of the work. All costs associated with the use of this system will be evenly distributed in the project overhead and spread across the duration of the contract.
ATTACHMENT 2

APPENDIX E

PWC BUILDING PERMIT
SPECIAL INSPECTION REQUIREMENTS
The above case / plan has been approved and is ready for pickup. Below is a list of items that you will need to bring with you in order to pick up your plans and permit.

- Contractor’s License (PWC Business License and VA Contractor’s License)
- Site Plan Release Letter 703-792-6830
- Special Inspections Approval (Please contact 703-792-6112 prior to picking up your plans to coordinate approval.)
- Remaining Fees: $9,087.10

* All forms can be found at www.pwcgov.org/BDFoms

In accordance with VUSBC, Section 108.8 Time Limitation of Application, the permit application and the approved plans shall be deemed to have been abandoned six months after the date of filing unless such application has been pursued in good faith or a permit has been issued.

If you have any questions, you may call the Building Permitting Services Section at 703-792-6924.

Sarah Hawkins
Permits Technician
The above case / plan has been approved and is ready for pickup. Below is a list of items that you will need to bring with you in order to pick up your plans and permit.

- Contractor’s License (PWC Business License and VA Contractor’s License)
- Site Plan Release Letter 703-792-6830
- Remaining Fees: $520.00

* All forms can be found at www.pwcgov.org/BDFoms

In accordance with VUSBC, Section 108.8 Time Limitation of Application, the permit application and the approved plans shall be deemed to have been abandoned six months after the date of filing unless such application has been pursued in good faith or a permit has been issued.

If you have any questions, you may call the Building Permitting Services Section at 703-792-6924.

Sarah Hawkins
Permits Technician
Appendix II - Attachment E:
Letter of Engagement of SIER to perform Third Party Inspections

Note: Please reproduce on your letterhead and submit to PWCSIS the text below the line as it applies to your project by filling the blanks and without making changes. If you are not using a letterhead, please provide your contact information

Date: ________________

Special Inspections Section
Prince William County
Building Development Division
5 County Complex Court, Suite 120
Prince William, VA 22192

Project Name:
Project Address:
Building Permit #: BLD __________

Dear Sir/Madam:

Subject: Letter of Engagement to Perform Third Party Inspections

This is to confirm that [Name of Company], have been hired by the Owner, on the above referenced project to perform inspections and testing. [Name of County approved Third Party Inspections Engineer], P.E., will be the Special Inspections Engineer of Record (SIER) for the project and will be certifying the project upon completion. The detailed scope of work, resumes and certifications of technicians and the laboratory accreditation certificate of the testing agency are attached herewith.

Respectfully,

Dated Seal and Signature of SIER

Attachments:

cc: The Owner
PRINCE WILLIAM COUNTY
Department of Development Services – Building Development Division

Requirements for
Mandatory Third Party Inspections
Managed by the Special Inspections Section

Version 2012-01-15

Please refer to Policy 1.18 Third Party Inspection Certification Program for Minor Critical Projects for complete inspections requirements for the Mandatory Third Party Inspections managed by the Special Inspections Section. Relevant permitting requirements of the Policy are reproduced below for expediency.

Relevant Permitting Requirements
A Special Inspections preconstruction meeting is not required for this permit. Please submit the following documents to the Special Inspections Section as a prerequisite for the issuance of the building permit.

1. An approved Third Party Engineer shall submit a letter that they have been hired by the Owner or the Owner’s authorized agent, to perform inspections (sample form letter is in Appendix II Attachment E of the Prince William County Special Inspections Manual).

2. The Third Party Engineer shall review plans and submit a detailed scope of work, supported by resumes and certifications of technicians and the laboratory accreditation certificate of the testing laboratory that will be used to provide material testing services.

3. Where applicable, a Building Pad Certification shall be submitted; refer to Policy 1.4 Building Pad Certification.

Other Requirements:
Prior to erection of structural steel members, submit two (2) original sets of structural steel shop drawings, reviewed and approved by the design engineer, to the Special Inspections Section for approval.

Please submit the documents to:

Special Inspections Section
Building Construction Review Branch
Building Development Division
5 County Complex Court, Suite 120
Prince William, VA 22192

Tel: 703-792-6112 or 703-792-6930
Fax: 703-792-7054

The project will be assigned to one of the Special Inspections Section staff, who will remain your point of contact during construction of the special inspection items.
ATTACHMENT 3

REVISED DRAWINGS
SHEETS 30, 31, 32, 39, 40, & 41
PLAN NOTES:
A. Refer to Sheet 3B for structural notes, plan legends, and abbreviations.
B. Refer to wall drawings for exterior concrete slab and framing.
C. Finished floor elevation is 16.7'.
D. 1/8" plywood reinforced concrete slab, toping to 3/4" exterior edges of framing, refer to "Plan Reinforcement Plan" on the sheet for reinforcement details and placement.
E. Place reinforcing bars as required to close small slab penetrations.
F. Reinforce masonry walls with 2-3/8" round at each corner and at 30" OC. Provide 2-3/8" each and 1-1/2" centered in each (2/12).
G. 2/4 wood panels spaced at 1/4" OC.
H. 3/4" tongue and groove plywood sheathing.
I. Refer to wall drawings for exact sizes and locations of openings. Refer to typical slab opening detail on Sheet 38 for additional information.
J. Refer to wall piercing detail on Sheet 42 for dimensional required around the opening.
K. Provide hurricane ties at each joint to top plate connection. Ties shall be type 1-1/4" manufactured by Simpson Strong Tie or approved equal.

FOUNDATION PLAN - CONTROL BUILDING

SLAB REINFORCING PLAN

CEILING JOIST FRAMING PLAN - CONTROL BUILDING

ROOF FRAMING PLAN - CONTROL BUILDING