



State of West Virginia
 Department of Administration
 Purchasing Division
 2019 Washington Street East
 Post Office Box 50130
 Charleston, WV 25305-0130

Solicitation

NUMBER
DEFK14021

PAGE
1

ADDRESS CORRESPONDENCE TO ATTENTION OF
TARA LYLE 304-558-2544

RFQ COPY

TYPE NAME/ADDRESS HERE

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DIV ENGINEERING & FACILITIES
 JOBSITE
 SEE SPECIFICATIONS

DATE PRINTED
12/23/2013

BID OPENING DATE: 01/21/2014 BID OPENING TIME 1:30PM

LINE	QUANTITY	UOP	CAT NO	ITEM NUMBER	UNIT PRICE	AMOUNT
***** PLEASE NOTE A MANDATORY PRE-BID MEETING IS SCHEDULED FOR 01/07/2014 AT 10:00 AM AT THE CFMO CONFERENCE ROOM LOCATED AT THE WV ARMY NATIONAL GUARD 1703 COONSKIN DRIVE CHARLESTON, WV 25311. ***** PLEASE NOTE: THE DRUG-FREE WORKPLACE AFFIDAVIT AND BID BOND ARE REQUIRED WITH BID SUBMISSION. ***** CONTRACT DOCUMENTS MAY BE OBTAINED AT THE OFFICES OF MICHAEL BAKER JR., INC. 5088 WASHINGTON STREET, WEST SECOND FLOOR CHARLESTON, WV 25313 PHONE: 304-769-0821 A NON-REFUNDABLE PAYMENT OF \$175.00 IS REQUIRED FOR EACH SET OF DOCUMENTS. *****						
0001	1	JB		968-42		
GENERAL CONSTRUCTION						
THE WEST VIRGINIA PURCHASING DIVISION FOR THE AGENCY, WV NATIONAL GUARD, DIVISION OF ENGINEERING AND FACILITIES, IS SOLICITING BIDS TO CONSTRUCT A						

SIGNATURE		TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE	

WHEN RESPONDING TO SOLICITATION, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'



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ADDRESS CORRESPONDENCE TO ATTENTION OF
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SHIP TO

DIV ENGINEERING & FACILITIES
 JOBSITE
 SEE SPECIFICATIONS

DATE PRINTED
12/23/2013

BID OPENING DATE: 01/21/2014 BID OPENING TIME 1:30PM

LINE	QUANTITY	UOP	CAT NO.	ITEM NUMBER	UNIT PRICE	AMOUNT
NEW MAINTENANCE FACILITY AT THE WV NATIONAL GUARD - PROPERTY ADJACENT TO THE SOCCER COMPLEX IN COONSKIN PARK, CHARLESTON, WV, PER THE ATTACHED SPECIFICATIONS.						
ATTACHMENTS INCLUDE:						
1. INSTRUCTIONS TO VENDORS SUBMITTING BIDS						
2. GENERAL TERMS AND CONDITIONS						
3. ADDITIONAL TERMS AND CONDITIONS (CONSTRUCTION CONTRACTS ONLY)						
4. DEFK14021 SPECIFICATIONS AND DRAWINGS						
5. CERTIFICATION AND SIGNATURE PAGE						
6. PURCHASING AFFIDAVIT						
7. DRUG-FREE WORKPLACE AFFIDAVIT						
8. BID BOND INSTRUCTIONS AND FORM						
9. WV-75-CONSTRUCTION BID SUBMISSION REVIEW FORM						
***** THIS IS THE END OF RFQ DEFK14021 ***** TOTAL:						_____

SIGNATURE		TELEPHONE	DATE
TITLE	FEIN	ADDRESS CHANGES TO BE NOTED ABOVE	

WHEN RESPONDING TO SOLICITATION, INSERT NAME AND ADDRESS IN SPACE ABOVE LABELED 'VENDOR'

INSTRUCTIONS TO VENDORS SUBMITTING BIDS

1. **REVIEW DOCUMENTS THOROUGHLY:** The attached documents contain a solicitation for bids. Please read these instructions and all documents attached in their entirety. These instructions provide critical information about requirements that if overlooked could lead to disqualification of a Vendor's bid. All bids must be submitted in accordance with the provisions contained in these instructions and the Solicitation. Failure to do so may result in disqualification of Vendor's bid.
2. **MANDATORY TERMS:** The Solicitation may contain mandatory provisions identified by the use of the words "must," "will," and "shall." Failure to comply with a mandatory term in the Solicitation will result in bid disqualification.
3. **PREBID MEETING:** The item identified below shall apply to this Solicitation.

- A pre-bid meeting will not be held prior to bid opening.
- A **NON-MANDATORY PRE-BID** meeting will be held at the following place and time:

- A **MANDATORY PRE-BID** meeting will be held at the following place and time:

January 7, 2014 at 10:00 am

WVANG - CFMO Conference Room
1703 Coonskin Drive
Charleston, WV 25311

All Vendors submitting a bid must attend the mandatory pre-bid meeting. Failure to attend the mandatory pre-bid meeting shall result in disqualification of the Vendor's bid. No one person attending the pre-bid meeting may represent more than one Vendor.

An attendance sheet provided at the pre-bid meeting shall serve as the official document verifying attendance. The State will not accept any other form of proof or documentation to verify attendance. Any person attending the pre-bid meeting on behalf of a Vendor must list on the attendance sheet his or her name and the name of the Vendor he or she is representing. Additionally, the person attending the pre-bid meeting should include the Vendor's E-Mail address, phone number, and Fax number on the attendance sheet. It is the Vendor's responsibility to locate the attendance sheet and provide the required information. Failure to complete the attendance sheet as required may result in disqualification of Vendor's bid.

All Vendors should arrive prior to the starting time for the pre-bid. Vendors who arrive after the starting time but prior to the end of the pre-bid will be permitted to sign in, but are charged with knowing all matters discussed at the pre-bid.

Questions submitted at least five business days prior to a scheduled pre-bid will be discussed at the pre-bid meeting if possible. Any discussions or answers to questions at the pre-bid meeting are preliminary in nature and are non-binding. Official and binding answers to questions will be published in a written addendum to the Solicitation prior to bid opening.

4. **VENDOR QUESTION DEADLINE:** Vendors may submit questions relating to this Solicitation to the Purchasing Division. Questions must be submitted in writing. All questions must be submitted on or before the date listed below and to the address listed below in order to be considered. A written response will be published in a Solicitation addendum if a response is possible and appropriate. Non-written discussions, conversations, or questions and answers regarding this Solicitation are preliminary in nature and are non-binding.

Question Submission Deadline: January 10, 2014 at 5:00 pm

Submit Questions to: Tara Lyle, File 32

2019 Washington Street, East
Charleston, WV 25305

Fax: 304-558-4115

Email: Tara.L.Lyle@wv.gov

5. **VERBAL COMMUNICATION:** Any verbal communication between the Vendor and any State personnel is not binding, including that made at the mandatory pre-bid conference. Only information issued in writing and added to the Solicitation by an official written addendum by the Purchasing Division is binding.
6. **BID SUBMISSION:** All bids must be signed and delivered by the Vendor to the Purchasing Division at the address listed below on or before the date and time of the bid opening. Any bid received by the Purchasing Division staff is considered to be in the possession of the Purchasing Division and will not be returned for any reason. The bid delivery address is:

Department of Administration, Purchasing Division
2019 Washington Street East
Charleston, WV 25305-0130

The bid should contain the information listed below on the face of the envelope or the bid may not be considered:

SEALED BID

BUYER: _____

SOLICITATION NO.: _____

BID OPENING DATE: _____

BID OPENING TIME: _____

FAX NUMBER: _____

In the event that Vendor is responding to a request for proposal, the Vendor shall submit one original technical and one original cost proposal plus n/a convenience copies of each to the Purchasing Division at the address shown above. Additionally, the Vendor should identify the bid type as either a technical or cost proposal on the face of each bid envelope submitted in response to a request for proposal as follows:

BID TYPE: Technical
 Cost

7. **BID OPENING:** Bids submitted in response to this Solicitation will be opened at the location identified below on the date and time listed below. Delivery of a bid after the bid opening date and time will result in bid disqualification. For purposes of this Solicitation, a bid is considered delivered when time stamped by the official Purchasing Division time clock.

Bid Opening Date and Time: January 21, 2014 at 1:30 pm

Bid Opening Location: Department of Administration, Purchasing Division
 2019 Washington Street East
 Charleston, WV 25305-0130

8. **ADDENDUM ACKNOWLEDGEMENT:** Changes or revisions to this Solicitation will be made by an official written addendum issued by the Purchasing Division. Vendor should acknowledge receipt of all addenda issued with this Solicitation by completing an Addendum Acknowledgment Form, a copy of which is included herewith. Failure to acknowledge addenda may result in bid disqualification. The addendum acknowledgement should be submitted with the bid to expedite document processing.
9. **BID FORMATTING:** Vendor should type or electronically enter the information onto its bid to prevent errors in the evaluation. Failure to type or electronically enter the information may result in bid disqualification.

GENERAL TERMS AND CONDITIONS:

1. **CONTRACTUAL AGREEMENT:** Issuance of a Purchase Order signed by the Purchasing Division Director, or his designee, and approved as to form by the Attorney General's office constitutes acceptance of this Contract made by and between the State of West Virginia and the Vendor. Vendor's signature on its bid signifies Vendor's agreement to be bound by and accept the terms and conditions contained in this Contract.

2. **DEFINITIONS:** As used in this Solicitation/Contract, the following terms shall have the meanings attributed to them below. Additional definitions may be found in the specifications included with this Solicitation/Contract.
 - 2.1 **"Agency" or "Agencies"** means the agency, board, commission, or other entity of the State of West Virginia that is identified on the first page of the Solicitation or any other public entity seeking to procure goods or services under this Contract.

 - 2.2 **"Contract"** means the binding agreement that is entered into between the State and the Vendor to provide the goods and services requested in the Solicitation.

 - 2.3 **"Director"** means the Director of the West Virginia Department of Administration, Purchasing Division.

 - 2.4 **"Purchasing Division"** means the West Virginia Department of Administration, Purchasing Division.

 - 2.5 **"Purchase Order"** means the document signed by the Agency and the Purchasing Division, and approved as to form by the Attorney General, that identifies the Vendor as the successful bidder and Contract holder.

 - 2.6 **"Solicitation"** means the official solicitation published by the Purchasing Division and identified by number on the first page thereof.

 - 2.7 **"State"** means the State of West Virginia and/or any of its agencies, commissions, boards, etc. as context requires.

 - 2.8 **"Vendor" or "Vendors"** means any entity submitting a bid in response to the Solicitation, the entity that has been selected as the lowest responsible bidder, or the entity that has been awarded the Contract as context requires.

3. **CONTRACT TERM; RENEWAL; EXTENSION:** The term of this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below:

Term Contract

Initial Contract Term: This Contract becomes effective on _____
and extends for a period of _____ year(s).

Renewal Term: This Contract may be renewed upon the mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). Any request for renewal must be submitted to the Purchasing Division Director thirty (30) days prior to the expiration date of the initial contract term or appropriate renewal term. A Contract renewal shall be in accordance with the terms and conditions of the original contract. Renewal of this Contract is limited to _____ successive one (1) year periods. Automatic renewal of this Contract is prohibited. Notwithstanding the foregoing, Purchasing Division approval is not required on agency delegated or exempt purchases. Attorney General approval may be required for vendor terms and conditions.

Reasonable Time Extension: At the sole discretion of the Purchasing Division Director, and with approval from the Attorney General's office (Attorney General approval is as to form only), this Contract may be extended for a reasonable time after the initial Contract term or after any renewal term as may be necessary to obtain a new contract or renew this Contract. Any reasonable time extension shall not exceed twelve (12) months. Vendor may avoid a reasonable time extension by providing the Purchasing Division Director with written notice of Vendor's desire to terminate this Contract 30 days prior to the expiration of the then current term. During any reasonable time extension period, the Vendor may terminate this Contract for any reason upon giving the Purchasing Division Director 30 days written notice. Automatic extension of this Contract is prohibited. Notwithstanding the foregoing, Purchasing Division approval is not required on agency delegated or exempt purchases, but Attorney General approval may be required.

Release Order Limitations: In the event that this contract permits release orders, a release order may only be issued during the time this Contract is in effect. Any release order issued within one year of the expiration of this Contract shall be effective for one year from the date the release order is issued. No release order may be extended beyond one year after this Contract has expired.

Fixed Period Contract: This Contract becomes effective upon Vendor's receipt of the notice to proceed and must be completed within 120 _____ days.

- One Time Purchase:** The term of this Contract shall run from the issuance of the Purchase Order until all of the goods contracted for have been delivered, but in no event shall this Contract extend for more than one fiscal year.
- Other:** See attached.
4. **NOTICE TO PROCEED:** Vendor shall begin performance of this Contract immediately upon receiving notice to proceed unless otherwise instructed by the Agency. Unless otherwise specified, the fully executed Purchase Order will be considered notice to proceed
5. **QUANTITIES:** The quantities required under this Contract shall be determined in accordance with the category that has been identified as applicable to this Contract below.
- Open End Contract:** Quantities listed in this Solicitation are approximations only, based on estimates supplied by the Agency. It is understood and agreed that the Contract shall cover the quantities actually ordered for delivery during the term of the Contract, whether more or less than the quantities shown.
- Service:** The scope of the service to be provided will be more clearly defined in the specifications included herewith.
- Combined Service and Goods:** The scope of the service and deliverable goods to be provided will be more clearly defined in the specifications included herewith.
- One Time Purchase:** This Contract is for the purchase of a set quantity of goods that are identified in the specifications included herewith. Once those items have been delivered, no additional goods may be procured under this Contract without an appropriate change order approved by the Vendor, Agency, Purchasing Division, and Attorney General's office.
6. **PRICING:** The pricing set forth herein is firm for the life of the Contract, unless specified elsewhere within this Solicitation/Contract by the State. A Vendor's inclusion of price adjustment provisions in its bid, without an express authorization from the State in the Solicitation to do so, may result in bid disqualification.
7. **EMERGENCY PURCHASES:** The Purchasing Division Director may authorize the Agency to purchase goods or services in the open market that Vendor would otherwise provide under this Contract if those goods or services are for immediate or expedited delivery in an emergency. Emergencies shall include, but are not limited to, delays in transportation or an unanticipated increase in the volume of work. An emergency purchase in the open market, approved by the Purchasing Division Director, shall not constitute of breach of this Contract and shall not entitle the Vendor to any form of compensation or damages. This provision does not excuse the State from fulfilling its obligations under a One Time Purchase contract.
8. **REQUIRED DOCUMENTS:** All of the items checked below must be provided to the Purchasing Division by the Vendor as specified below.

BID BOND: All Vendors shall furnish a bid bond in the amount of five percent (5%) of the total amount of the bid protecting the State of West Virginia. The bid bond must be submitted with the bid.

PERFORMANCE BOND: The apparent successful Vendor shall provide a performance bond in the amount of 100% of contract value . The performance bond must be issued and received by the Purchasing Division prior to Contract award. On construction contracts, the performance bond must be 100% of the Contract value.

LABOR/MATERIAL PAYMENT BOND: The apparent successful Vendor shall provide a labor/material payment bond in the amount of 100% of the Contract value. The labor/material payment bond must be issued and delivered to the Purchasing Division prior to Contract award.

In lieu of the Bid Bond, Performance Bond, and Labor/Material Payment Bond, the Vendor may provide certified checks, cashier's checks, or irrevocable letters of credit. Any certified check, cashier's check, or irrevocable letter of credit provided in lieu of a bond must be of the same amount and delivered on the same schedule as the bond it replaces. A letter of credit submitted in lieu of a performance and labor/material payment bond will only be allowed for projects under \$100,000. Personal or business checks are not acceptable.

MAINTENANCE BOND: The apparent successful Vendor shall provide a two (2) year maintenance bond covering the roofing system. The maintenance bond must be issued and delivered to the Purchasing Division prior to Contract award.

WORKERS' COMPENSATION INSURANCE: The apparent successful Vendor shall have appropriate workers' compensation insurance and shall provide proof thereof upon request.

INSURANCE: The apparent successful Vendor shall furnish proof of the following insurance prior to Contract award and shall list the state as a certificate holder:

Commercial General Liability Insurance:
\$1,000,000.00 or more.

Builders Risk Insurance: builders risk – all risk insurance in an amount equal to 100% of the amount of the Contract.

The apparent successful Vendor shall also furnish proof of any additional insurance requirements contained in the specifications prior to Contract award regardless of whether or not that insurance requirement is listed above.

LICENSE(S) / CERTIFICATIONS / PERMITS: In addition to anything required under the Section entitled Licensing, of the General Terms and Conditions, the apparent successful Vendor shall furnish proof of the following licenses, certifications, and/or permits prior to Contract award, in a form acceptable to the Purchasing Division.

WV Contractor's License

The apparent successful Vendor shall also furnish proof of any additional licenses or certifications contained in the specifications prior to Contract award regardless of whether or not that requirement is listed above.

9. LITIGATION BOND: The Director reserves the right to require any Vendor that files a protest of an award to submit a litigation bond in the amount equal to one percent of the lowest bid submitted or \$5,000, whichever is greater. The entire amount of the bond shall be forfeited if the hearing officer determines that the protest was filed for frivolous or improper purpose, including but not limited to, the purpose of harassing, causing unnecessary delay, or needless expense for the Agency. All litigation bonds shall be made payable to the Purchasing Division. In lieu of a bond, the protester may submit a cashier's check or certified check payable to the Purchasing Division. Cashier's or certified checks will be deposited with and held by the State Treasurer's office. If it is determined that the protest has not been filed for frivolous or improper purpose, the bond or deposit shall be returned in its entirety.

10. ALTERNATES: Any model, brand, or specification listed herein establishes the acceptable level of quality only and is not intended to reflect a preference for, or in any way favor, a particular brand or vendor. Vendors may bid alternates to a listed model or brand provided that the alternate is at least equal to the model or brand and complies with the required specifications. The equality of any alternate being bid shall be determined by the State at its sole discretion. Any Vendor bidding an alternate model or brand should clearly identify the alternate items in its bid and should include manufacturer's specifications, industry literature, and/or any other relevant documentation demonstrating the equality of the alternate items. Failure to provide information for alternate items may be grounds for rejection of a Vendor's bid.

11. EXCEPTIONS AND CLARIFICATIONS: The Solicitation contains the specifications that shall form the basis of a contractual agreement. Vendor shall clearly mark any exceptions, clarifications, or

other proposed modifications in its bid. Exceptions to, clarifications of, or modifications of a requirement or term and condition of the Solicitation may result in bid disqualification.

- 12. LIQUIDATED DAMAGES:** Vendor shall pay liquidated damages in the amount
* see below for

This clause shall in no way be considered exclusive and shall not limit the State or Agency's right to pursue any other available remedy.

- 13. ACCEPTANCE/REJECTION:** The State may accept or reject any bid in whole, or in part. Vendor's signature on its bid signifies acceptance of the terms and conditions contained in the Solicitation and Vendor agrees to be bound by the terms of the Contract, as reflected in the Purchase Order, upon receipt.
- 14. REGISTRATION:** Prior to Contract award, the apparent successful Vendor must be properly registered with the West Virginia Purchasing Division and must have paid the \$125 fee if applicable.
- 15. COMMUNICATION LIMITATIONS:** In accordance with West Virginia Code of State Rules §148-1-6.6, communication with the State of West Virginia or any of its employees regarding this Solicitation during the solicitation, bid, evaluation or award periods, except through the Purchasing Division, is strictly prohibited without prior Purchasing Division approval. Purchasing Division approval for such communication is implied for all agency delegated and exempt purchases.
- 16. FUNDING:** This Contract shall continue for the term stated herein, contingent upon funds being appropriated by the Legislature or otherwise being made available. In the event funds are not appropriated or otherwise made available, this Contract becomes void and of no effect beginning on July 1 of the fiscal year for which funding has not been appropriated or otherwise made available.
- 17. PAYMENT:** Payment in advance is prohibited under this Contract. Payment may only be made after the delivery and acceptance of goods or services. The Vendor shall submit invoices, in arrears, to the Agency at the address on the face of the purchase order labeled "Invoice To."
- 18. UNIT PRICE:** Unit prices shall prevail in cases of a discrepancy in the Vendor's bid.
- 19. DELIVERY:** All quotations are considered freight on board destination ("F.O.B. destination") unless alternate shipping terms are clearly identified in the bid. Vendor's listing of shipping terms that contradict the shipping terms expressly required by this Solicitation may result in bid disqualification.
- 20. INTEREST:** Interest attributable to late payment will only be permitted if authorized by the West Virginia Code. Presently, there is no provision in the law for interest on late payments.
- 21. PREFERENCE:** Vendor Preference may only be granted upon written request and only in accordance with the West Virginia Code § 5A-3-37 and the West Virginia Code of State Rules. A Resident Vendor Certification form has been attached hereto to allow Vendor to apply for the preference. Vendor's

failure to submit the Resident Vendor Certification form with its bid will result in denial of Vendor Preference. Vendor Preference does not apply to construction projects.

- 22. SMALL, WOMEN-OWNED, OR MINORITY-OWNED BUSINESSES:** For any solicitations publicly advertised for bid on or after July 1, 2012, in accordance with West Virginia Code §5A-3-37(a)(7) and W. Va. CSR § 148-22-9, any non-resident vendor certified as a small, women-owned, or minority-owned business under W. Va. CSR § 148-22-9 shall be provided the same preference made available to any resident vendor. Any non-resident small, women-owned, or minority-owned business must identify itself as such in writing, must submit that writing to the Purchasing Division with its bid, and must be properly certified under W. Va. CSR § 148-22-9 prior to submission of its bid to receive the preferences made available to resident vendors. Preference for a non-resident small, women-owned, or minority-owned business shall be applied in accordance with W. Va. CSR § 148-22-9.
- 23. TAXES:** The Vendor shall pay any applicable sales, use, personal property or any other taxes arising out of this Contract and the transactions contemplated thereby. The State of West Virginia is exempt from federal and state taxes and will not pay or reimburse such taxes.
- 24. CANCELLATION:** The Purchasing Division Director reserves the right to cancel this Contract immediately upon written notice to the vendor if the materials or workmanship supplied do not conform to the specifications contained in the Contract. The Purchasing Division Director may cancel any purchase or Contract upon 30 days written notice to the Vendor in accordance with West Virginia Code of State Rules § 148-1-7.16.2.
- 25. WAIVER OF MINOR IRREGULARITIES:** The Director reserves the right to waive minor irregularities in bids or specifications in accordance with West Virginia Code of State Rules § 148-1-4.6.
- 26. TIME:** Time is of the essence with regard to all matters of time and performance in this Contract.
- 27. APPLICABLE LAW:** This Contract is governed by and interpreted under West Virginia law without giving effect to its choice of law principles. Any information provided in specification manuals, or any other source, verbal or written, which contradicts or violates the West Virginia Constitution, West Virginia Code or West Virginia Code of State Rules is void and of no effect.
- 28. COMPLIANCE:** Vendor shall comply with all applicable federal, state, and local laws, regulations and ordinances. By submitting a bid, Vendors acknowledge that they have reviewed, understand, and will comply with all applicable law.
- 29. PREVAILING WAGE:** On any contract for the construction of a public improvement, Vendor and any subcontractors utilized by Vendor shall pay a rate or rates of wages which shall not be less than the fair minimum rate or rates of wages (prevailing wage), as established by the West Virginia Division of Labor under West Virginia Code §§ 21-5A-1 et seq. and available at <http://www.sos.wv.gov/administrative-law/wagerates/Pages/default.aspx>. Vendor shall be responsible for ensuring compliance with prevailing wage requirements and determining when prevailing wage

requirements are applicable. The required contract provisions contained in West Virginia Code of State Rules § 42-7-3 are specifically incorporated herein by reference.

30. **ARBITRATION:** Any references made to arbitration contained in this Contract, Vendor's bid, or in any American Institute of Architects documents pertaining to this Contract are hereby deleted, void, and of no effect.
31. **MODIFICATIONS:** This writing is the parties' final expression of intent. Notwithstanding anything contained in this Contract to the contrary, no modification of this Contract shall be binding without mutual written consent of the Agency, and the Vendor, with approval of the Purchasing Division and the Attorney General's office (Attorney General approval is as to form only). **No Change shall be implemented by the Vendor until such time as the Vendor receives an approved written change order from the Purchasing Division.**
32. **WAIVER:** The failure of either party to insist upon a strict performance of any of the terms or provision of this Contract, or to exercise any option, right, or remedy herein contained, shall not be construed as a waiver or a relinquishment for the future of such term, provision, option, right, or remedy, but the same shall continue in full force and effect. Any waiver must be expressly stated in writing and signed by the waiving party.
33. **SUBSEQUENT FORMS:** The terms and conditions contained in this Contract shall supersede any and all subsequent terms and conditions which may appear on any form documents submitted by Vendor to the Agency or Purchasing Division such as price lists, order forms, invoices, sales agreements, or maintenance agreements, and includes internet websites or other electronic documents. Acceptance or use of Vendor's forms does not constitute acceptance of the terms and conditions contained thereon.
34. **ASSIGNMENT:** Neither this Contract nor any monies due, or to become due hereunder, may be assigned by the Vendor without the express written consent of the Agency, the Purchasing Division, the Attorney General's office (as to form only), and any other government agency or office that may be required to approve such assignments. Notwithstanding the foregoing, Purchasing Division approval may or may not be required on certain agency delegated or exempt purchases.
35. **WARRANTY:** The Vendor expressly warrants that the goods and/or services covered by this Contract will: (a) conform to the specifications, drawings, samples, or other description furnished or specified by the Agency; (b) be merchantable and fit for the purpose intended; and (c) be free from defect in material and workmanship.
36. **STATE EMPLOYEES:** State employees are not permitted to utilize this Contract for personal use and the Vendor is prohibited from permitting or facilitating the same.
37. **BANKRUPTCY:** In the event the Vendor files for bankruptcy protection, the State of West Virginia may deem this Contract null and void, and terminate this Contract without notice.

- 39. CONFIDENTIALITY:** The Vendor agrees that it will not disclose to anyone, directly or indirectly, any such personally identifiable information or other confidential information gained from the Agency, unless the individual who is the subject of the information consents to the disclosure in writing or the disclosure is made pursuant to the Agency's policies, procedures, and rules. Vendor further agrees to comply with the Confidentiality Policies and Information Security Accountability Requirements, set forth in <http://www.state.wv.us/admin/purchase/privacy/default.html>.
- 40. DISCLOSURE:** Vendor's response to the Solicitation and the resulting Contract are considered public documents and will be disclosed to the public in accordance with the laws, rules, and policies governing the West Virginia Purchasing Division. Those laws include, but are not limited to, the Freedom of Information Act found in West Virginia Code § 29B-1-1 et seq.

If a Vendor considers any part of its bid to be exempt from public disclosure, Vendor must so indicate by specifically identifying the exempt information, identifying the exemption that applies, providing a detailed justification for the exemption, segregating the exempt information from the general bid information, and submitting the exempt information as part of its bid but in a segregated and clearly identifiable format. Failure to comply with the foregoing requirements will result in public disclosure of the Vendor's bid without further notice. A Vendor's act of marking all or nearly all of its bid as exempt is not sufficient to avoid disclosure and WILL NOT BE HONORED. Vendor's act of marking a bid or any part thereof as "confidential" or "proprietary" is not sufficient to avoid disclosure and WILL NOT BE HONORED. In addition, a legend or other statement indicating that all or substantially all of the bid is exempt from disclosure is not sufficient to avoid disclosure and WILL NOT BE HONORED. Vendor will be required to defend any claimed exemption for nondisclosure in the event of an administrative or judicial challenge to the State's nondisclosure. Vendor must indemnify the State for any costs incurred related to any exemptions claimed by Vendor. Any questions regarding the applicability of the various public records laws should be addressed to your own legal counsel prior to bid submission.

- 41. LICENSING:** In accordance with West Virginia Code of State Rules §148-1-6.1.7, Vendor must be licensed and in good standing in accordance with any and all state and local laws and requirements by any state or local agency of West Virginia, including, but not limited to, the West Virginia Secretary of State's Office, the West Virginia Tax Department, West Virginia Insurance Commission, or any other state agency or political subdivision. Upon request, the Vendor must provide all necessary releases to obtain information to enable the Purchasing Division Director or the Agency to verify that the Vendor is licensed and in good standing with the above entities.
- 42. ANTITRUST:** In submitting a bid to, signing a contract with, or accepting a Purchase Order from any agency of the State of West Virginia, the Vendor agrees to convey, sell, assign, or transfer to the State of West Virginia all rights, title, and interest in and to all causes of action it may now or hereafter acquire under the antitrust laws of the United States and the State of West Virginia for price fixing and/or unreasonable restraints of trade relating to the particular commodities or services purchased or acquired

by the State of West Virginia. Such assignment shall be made and become effective at the time the purchasing agency tenders the initial payment to Vendor.

- 43. VENDOR CERTIFICATIONS:** By signing its bid or entering into this Contract, Vendor certifies (1) that its bid was made without prior understanding, agreement, or connection with any corporation, firm, limited liability company, partnership, person or entity submitting a bid for the same material, supplies, equipment or services; (2) that its bid is in all respects fair and without collusion or fraud; (3) that this Contract is accepted or entered into without any prior understanding, agreement, or connection to any other entity that could be considered a violation of law; and (4) that it has reviewed this RFQ in its entirety; understands the requirements, terms and conditions, and other information contained herein. Vendor's signature on its bid also affirms that neither it nor its representatives have any interest, nor shall acquire any interest, direct or indirect, which would compromise the performance of its services hereunder. Any such interests shall be promptly presented in detail to the Agency.

The individual signing this bid on behalf of Vendor certifies that he or she is authorized by the Vendor to execute this bid or any documents related thereto on Vendor's behalf; that he or she is authorized to bind the Vendor in a contractual relationship; and that, to the best of his or her knowledge, the Vendor has properly registered with any State agency that may require registration.

- 44. PURCHASING CARD ACCEPTANCE:** The State of West Virginia currently utilizes a Purchasing Card program, administered under contract by a banking institution, to process payment for goods and services. The Vendor must accept the State of West Virginia's Purchasing Card for payment of all orders under this Contract unless the box below is checked.

Vendor is not required to accept the State of West Virginia's Purchasing Card as payment for all goods and services.

- 45. VENDOR RELATIONSHIP:** The relationship of the Vendor to the State shall be that of an independent contractor and no principal-agent relationship or employer-employee relationship is contemplated or created by this Contract. The Vendor as an independent contractor is solely liable for the acts and omissions of its employees and agents. Vendor shall be responsible for selecting, supervising, and compensating any and all individuals employed pursuant to the terms of this Solicitation and resulting contract. Neither the Vendor, nor any employees or subcontractors of the Vendor, shall be deemed to be employees of the State for any purpose whatsoever. Vendor shall be exclusively responsible for payment of employees and contractors for all wages and salaries, taxes, withholding payments, penalties, fees, fringe benefits, professional liability insurance premiums, contributions to insurance and pension, or other deferred compensation plans, including but not limited to, Workers' Compensation and Social Security obligations, licensing fees, *etc.* and the filing of all necessary documents, forms and returns pertinent to all of the foregoing. Vendor shall hold harmless the State, and shall provide the State and Agency with a defense against any and all claims including, but not limited to, the foregoing payments, withholdings, contributions, taxes, Social Security taxes, and employer income tax returns.

- 46. INDEMNIFICATION:** The Vendor agrees to indemnify, defend, and hold harmless the State and the Agency, their officers, and employees from and against: (1) Any claims or losses for services rendered

by any subcontractor, person, or firm performing or supplying services, materials, or supplies in connection with the performance of the Contract; (2) Any claims or losses resulting to any person or entity injured or damaged by the Vendor, its officers, employees, or subcontractors by the publication, translation, reproduction, delivery, performance, use, or disposition of any data used under the Contract in a manner not authorized by the Contract, or by Federal or State statutes or regulations; and (3) Any failure of the Vendor, its officers, employees, or subcontractors to observe State and Federal laws including, but not limited to, labor and wage and hour laws.

- 47. PURCHASING AFFIDAVIT:** In accordance with West Virginia Code § 5A-3-10a, all Vendors are required to sign, notarize, and submit the Purchasing Affidavit stating that neither the Vendor nor a related party owe a debt to the State in excess of \$1,000. The affidavit must be submitted prior to award, but should be submitted with the Vendor's bid. A copy of the Purchasing Affidavit is included herewith.
- 48. ADDITIONAL AGENCY AND LOCAL GOVERNMENT USE:** This Contract may be utilized by and extends to other agencies, spending units, and political subdivisions of the State of West Virginia; county, municipal, and other local government bodies; and school districts ("Other Government Entities"). This Contract shall be extended to the aforementioned Other Government Entities on the same prices, terms, and conditions as those offered and agreed to in this Contract. If the Vendor does not wish to extend the prices, terms, and conditions of its bid and subsequent contract to the Other Government Entities, the Vendor must clearly indicate such refusal in its bid. A refusal to extend this Contract to the Other Government Entities shall not impact or influence the award of this Contract in any manner.
- 49. CONFLICT OF INTEREST:** Vendor, its officers or members or employees, shall not presently have or acquire any interest, direct or indirect, which would conflict with or compromise the performance of its obligations hereunder. Vendor shall periodically inquire of its officers, members and employees to ensure that a conflict of interest does not arise. Any conflict of interest discovered shall be promptly presented in detail to the Agency.
- 50. REPORTS:** Vendor shall provide the Agency and/or the Purchasing Division with the following reports identified by a checked box below:
- Such reports as the Agency and/or the Purchasing Division may request. Requested reports may include, but are not limited to, quantities purchased, agencies utilizing the contract, total contract expenditures by agency, etc.
 - Quarterly reports detailing the total quantity of purchases in units and dollars, along with a listing of purchases by agency. Quarterly reports should be delivered to the Purchasing Division via email at purchasing.requisitions@wv.gov.
- 51. BACKGROUND CHECK:** In accordance with W. Va. Code § 15-2D-3, the Director of the Division of Protective Services shall require any service provider whose employees are regularly employed on the grounds or in the buildings of the Capitol complex or who have access to sensitive or critical information

to submit to a fingerprint-based state and federal background inquiry through the state repository. The service provider is responsible for any costs associated with the fingerprint-based state and federal background inquiry.

After the contract for such services has been approved, but before any such employees are permitted to be on the grounds or in the buildings of the Capitol complex or have access to sensitive or critical information, the service provider shall submit a list of all persons who will be physically present and working at the Capitol complex to the Director of the Division of Protective Services for purposes of verifying compliance with this provision.

The State reserves the right to prohibit a service provider's employees from accessing sensitive or critical information or to be present at the Capitol complex based upon results addressed from a criminal background check.

Service providers should contact the West Virginia Division of Protective Services by phone at (304)558-9911 for more information.

52. PREFERENCE FOR USE OF DOMESTIC STEEL PRODUCTS: Except when authorized by the Director of the Purchasing Division pursuant to W. Va. Code § 5A-3-56, no contractor may use or supply steel products for a State Contract Project other than those steel products made in the United States. A contractor who uses steel products in violation of this section may be subject to civil penalties pursuant to W. Va. Code § 5A-3-56. As used in this section:

- a. "State Contract Project" means any erection or construction of, or any addition to, alteration of or other improvement to any building or structure, including, but not limited to, roads or highways, or the installation of any heating or cooling or ventilating plants or other equipment, or the supply of and materials for such projects, pursuant to a contract with the State of West Virginia for which bids were solicited on or after June 6, 2001.
- b. "Steel Products" means products rolled, formed, shaped, drawn, extruded, forged, cast, fabricated or otherwise similarly processed, or processed by a combination of two or more or such operations, from steel made by the open heath, basic oxygen, electric furnace, Bessemer or other steel making process.

The Purchasing Division Director may, in writing, authorize the use of foreign steel products if:

- a. The cost for each contract item used does not exceed one tenth of one percent (.1%) of the total contract cost or two thousand five hundred dollars (\$2,500.00), whichever is greater. For the purposes of this section, the cost is the value of the steel product as delivered to the project; or
- b. The Director of the Purchasing Division determines that specified steel materials are not produced in the United States in sufficient quantity or otherwise are not reasonably available to meet contract requirements.

53. PREFERENCE FOR USE OF DOMESTIC ALUMINUM, GLASS, AND STEEL: In Accordance with W. Va. Code § 5-19-1 et seq., and W. Va. CSR § 148-10-1 et seq., for every contract or subcontract, subject to the limitations contained herein, for the construction, reconstruction, alteration, repair, improvement or maintenance of public works or for the purchase of any item of machinery or equipment to be used at sites of public works, only domestic aluminum, glass or steel products shall be supplied unless the spending officer determines, in writing, after the receipt of offers or bids, (1) that the cost of domestic aluminum, glass or steel products is unreasonable or inconsistent with the public interest of the State of West Virginia, (2) that domestic aluminum, glass or steel products are not produced in sufficient quantities to meet the contract requirements, or (3) the available domestic aluminum, glass, or steel do not meet the contract specifications. This provision only applies to public works contracts awarded in an amount more than fifty thousand dollars (\$50,000) or public works contracts that require more than ten thousand pounds of steel products.

The cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than twenty percent (20%) of the bid or offered price for foreign made aluminum, glass, or steel products. If the domestic aluminum, glass or steel products to be supplied or produced in a “substantial labor surplus area”, as defined by the United States Department of Labor, the cost of domestic aluminum, glass, or steel products may be unreasonable if the cost is more than thirty percent (30%) of the bid or offered price for foreign made aluminum, glass, or steel products.

This preference shall be applied to an item of machinery or equipment, as indicated above, when the item is a single unit of equipment or machinery manufactured primarily of aluminum, glass or steel, is part of a public works contract and has the sole purpose or of being a permanent part of a single public works project. This provision does not apply to equipment or machinery purchased by a spending unit for use by that spending unit and not as part of a single public works project.

All bids and offers including domestic aluminum, glass or steel products that exceed bid or offer prices including foreign aluminum, glass or steel products after application of the preferences provided in this provision may be reduced to a price equal to or lower than the lowest bid or offer price for foreign aluminum, glass or steel products plus the applicable preference. If the reduced bid or offer prices are made in writing and supersede the prior bid or offer prices, all bids or offers, including the reduced bid or offer prices, will be reevaluated in accordance with this rule.

ADDITIONAL TERMS AND CONDITIONS (Construction Contracts Only)

1. **CONTRACTOR'S LICENSE:** West Virginia Code § 21-11-2 requires that all persons desiring to perform contracting work in this state be licensed. The West Virginia Contractors Licensing Board is empowered to issue the contractor's license. Applications for a contractor's license may be made by contacting the West Virginia Division of Labor.

West Virginia Code § 21-11-11 requires any prospective Vendor to include the contractor's license number on its bid. Failure to include a contractor's license number on the bid shall result in Vendor's bid being disqualified. Vendors should include a contractor's license number in the space provided below.

Contractor's Name: _____

Contractor's License No. _____

The apparent successful Vendor must furnish a copy of its contractor's license prior to the issuance of a purchase order/contract.

2. **DRUG-FREE WORKPLACE AFFIDAVIT:** W. Va. Code § 21-1D-5 provides that any solicitation for a public improvement contract requires each Vendor that submits a bid for the work to submit at the same time an affidavit that the Vendor has a written plan for a drug-free workplace policy. To comply with this law, Vendor must either complete the enclosed drug-free workplace affidavit and submit the same with its bid or complete a similar affidavit that fulfills all of the requirements of the applicable code. Failure to submit the signed and notarized drug-free workplace affidavit or a similar affidavit that fully complies with the requirements of the applicable code, with the bid shall result in disqualification of Vendor's bid.

2.1 DRUG-FREE WORKPLACE POLICY: Pursuant to W. Va. Code § 21-1D-4, Vendor and its subcontractors must implement and maintain a written drug-free workplace policy that complies with said article.

The awarding public authority may cancel this contract if: (1) Vendor fails to implement and maintain a written drug-free workplace policy described in the preceding paragraph, (2) Vendor fails to provide information regarding implementation of its drug-free workplace policy at the request of the public authority; or (3) Vendor provides to the public authority false information regarding the contractor's drug-free workplace policy.

3. **DRUG FREE WORKPLACE REPORT:** Pursuant to W. Va. Code § 21-1D-7b, no less than once per year, or upon completion of the project, every contractor shall provide a certified report to the public authority which let the contract. For contracts over \$25,000, the public authority shall be the West Virginia Purchasing Division. For contracts of \$25,000 or less, the public authority shall be the agency issuing the contract. The report shall include:

- (1) Information to show that the education and training service to the requirements of West Virginia Code § 21-1D-5 was provided;
- (2) The name of the laboratory certified by the United States Department of Health and Human Services or its successor that performs the drug tests;
- (3) The average number of employees in connection with the construction on the public improvement;
- (4) Drug test results for the following categories including the number of positive tests and the number of negative tests: (A) Pre-employment and new hires; (B) Reasonable suspicion; (C) Post-accident; and (D) Random.

Vendor should utilize the attached Certified Drug Free Workplace Report Coversheet when submitting the report required hereunder.

4. **AIA DOCUMENTS:** All construction contracts that will be completed in conjunction with architectural services procured under Chapter 5G of the West Virginia Code will be governed by the AIA A101-2007 and A201-2007 or the A107-2007 documents, as amended by the Supplementary Conditions for the State of West Virginia, in addition to the terms and conditions contained herein.
5. **SUBCONTRACTOR LIST SUBMISSION:** In accordance with W. Va. Code § 5-22-1, The apparent low bidder on a contract for the construction, alteration, decoration, painting or improvement of a new or existing building or structure valued at more than \$250,000.00 shall submit a list of all subcontractors who will perform more than \$25,000.00 of work on the project including labor and materials. This provision shall not apply to any other construction projects, such as highway, mine reclamation, water or sewer projects. Additionally, if no subcontractors who will perform more than \$25,000.00 of work are to be used to complete the project, it will be noted on the subcontractor list.
 - a. **Required Information.** The subcontractor list shall contain the following information:
 - i. Bidder's name
 - ii. Name of each subcontractor
 - iii. License numbers as required by W. Va. Code § 21-11-1 et. seq.
 - iv. Notation that no subcontractor will be used to perform more than \$25,000.00 of work, when applicable
 - b. **Submission.** The completed subcontractor list shall be provided to the Purchasing Division within one business day of the opening of bids for review. Failure to submit the subcontractor list within one business day after the deadline for submitting bids shall result in disqualification of the bid.
 - c. **Substitution of Subcontractor.** Written approval must be obtained from the State Spending Unit before any subcontractor substitution is permitted. Substitutions are not permitted unless:

- i. The subcontractor listed in the original bid has filed for bankruptcy;
 - ii. The subcontractor in the original bid has been debarred or suspended; or
 - iii. The contractor certifies in writing that the subcontractor listed in the original bill fails, is unable, or refuses to perform his subcontract.
6. **GREEN BUILDINGS MINIMUM ENERGY STANDARDS:** In accordance with § 22-29-4, all new building construction projects of public agencies that have not entered the schematic design phase prior to July 1, 2012, or any building construction project receiving state grant funds and appropriations, including public schools, that have not entered the schematic design phase prior to July 1, 2012, shall be designed and constructed complying with the ICC International Energy Conservation Code, adopted by the State Fire Commission, and the ANSI/ASHRAE/IESNA Standard 90.1-2007: *Provided*, That if any construction project has a commitment of federal funds to pay for a portion of such project, this provision shall only apply to the extent such standards are consistent with the federal standards.

SPECIFICATIONS

- 1. PURPOSE AND SCOPE:** The West Virginia Purchasing Division is soliciting bids on behalf of the West Virginia Army National Guard's Division of Engineering and Facilities to establish a contract for the one time purchase of labor, materials, and all associated costs to construct a new one-story pre-manufactured metal building storage/maintenance area of approximately 6,000 square feet.

The project includes but is not limited to the construction of up to a 6,000 square feet pre-engineered metal facility, sited on the available property adjacent to the Soccer Complex in Coonskin Park, Kanawha County, WV, per the drawings and specifications.

- 2. DEFINITIONS:** The terms listed below shall have the meanings assigned to them below. Additional definitions can be found in section 2 of the General Terms and Conditions.

2.1 "Contract Item" means the provision of all labor, materials and associated costs to construct the maintenance building at Coonskin Part in Charleston, WV, per the scope of work and the specifications and drawings.

2.2 "Pricing Page" means the pages upon which Vendor should list its proposed price for the Contract Items in the manner requested. The Pricing Page is either included on the last page of this RFQ or attached hereto as Exhibit A.

2.3 "RFQ" means the official request for quotation published by the Purchasing Division and identified as **DEFK14021**.

- 3. GENERAL REQUIREMENTS:**

3.1 Mandatory Contract Item Requirements: Contract Item must meet or exceed the mandatory requirements listed below.

3.1.1 Labor, materials, and all associated costs to construct a new pre-engineered metal storage/maintenance facility and associated building systems in Charleston, WV.

3.1.1.1 Contractor must provide all materials and equipment and perform all labor required to properly prepare the

building site for excavation, backfill, and foundation work as indicated on the drawings, as specified and as required by code.

3.1.1.2 Contractor must provide all materials and equipment and perform all labor to install appropriate concrete, reinforcement, structural steel, and shear walls as indicated on the drawings, as specified and as required by code.

3.1.1.3 Contractor must provide all materials and equipment and perform all labor to install complete for an operable plumbing, mechanical, electrical, and fire alarm systems as indicated on the drawings, as specified and a required by code.

4. CONTRACT AWARD:

4.1 Contract Award: The Contract is intended to provide Agencies with a purchase price for the Contract Items. The Contract shall be awarded to the Vendor that provides the Contract Items meeting the required specifications for the lowest total project cost as shown on the Pricing Pages.

4.2 Pricing Page: Vendor should complete the Pricing Page by completing the attached bid form. Vendor is to submit a lump sum price inclusive of all labor, materials, and associated costs to complete the project as designed and specified. Vendor should complete the Pricing Page in full as failure to complete the Pricing Page in its entirety may result in Vendor's bid being disqualified.

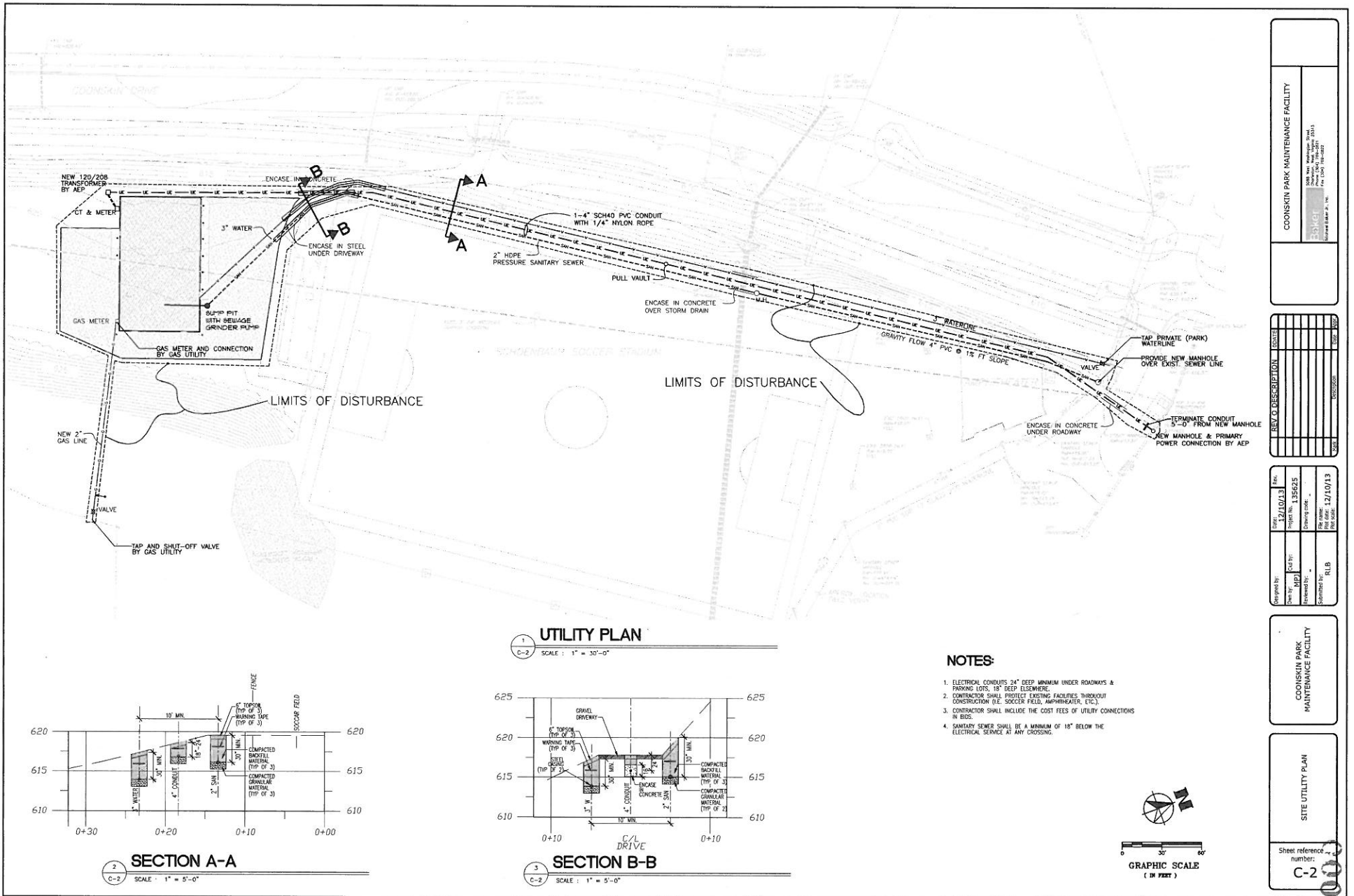
Notwithstanding the foregoing, the Purchasing Division may correct errors as it deems appropriate. Vendor should type or electronically enter the information into the Pricing Page to prevent errors in the evaluation.

5. PAYMENT:

5.1 Payment: Vendor shall accept payment in accordance with the payment procedures of the State of West Virginia.

Vendor may invoice monthly in arrears throughout the life of the contract. A 10% retainage will be paid upon owner acceptance of the completed construction project.

The project is to be completed in 120 calendar days after issuance of notice to proceed.



COONSKIN PARK MAINTENANCE FACILITY	
<small> 5000 Main, Suite 100 Denver, CO 80202 Phone: 303.733.1111 Fax: 303.733.1107 www.3dmc.com </small>	

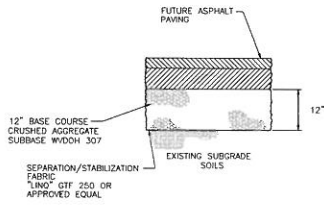
REV.	DESCRIPTION	DATE

Designed by:	12/10/13	Rev.	
Drawn by:	ADP	Project No.:	135625
Reviewed by:		Drawing date:	
Submitted by:		File name:	
		File size:	12/10/13
		File code:	

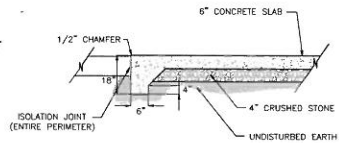
COONSKIN PARK MAINTENANCE FACILITY

SITE UTILITY PLAN
Sheet reference number: C-2

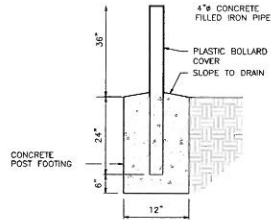
0028



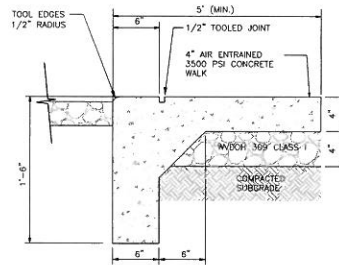
1 PAVEMENT DETAIL
C-3 SCALE: NONE



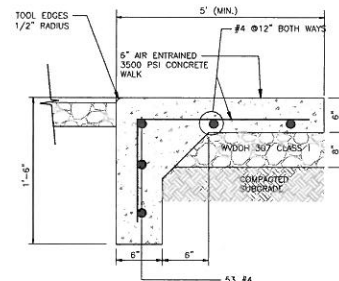
2 CONCRETE UTILITY PAD
C-3 SCALE: NONE



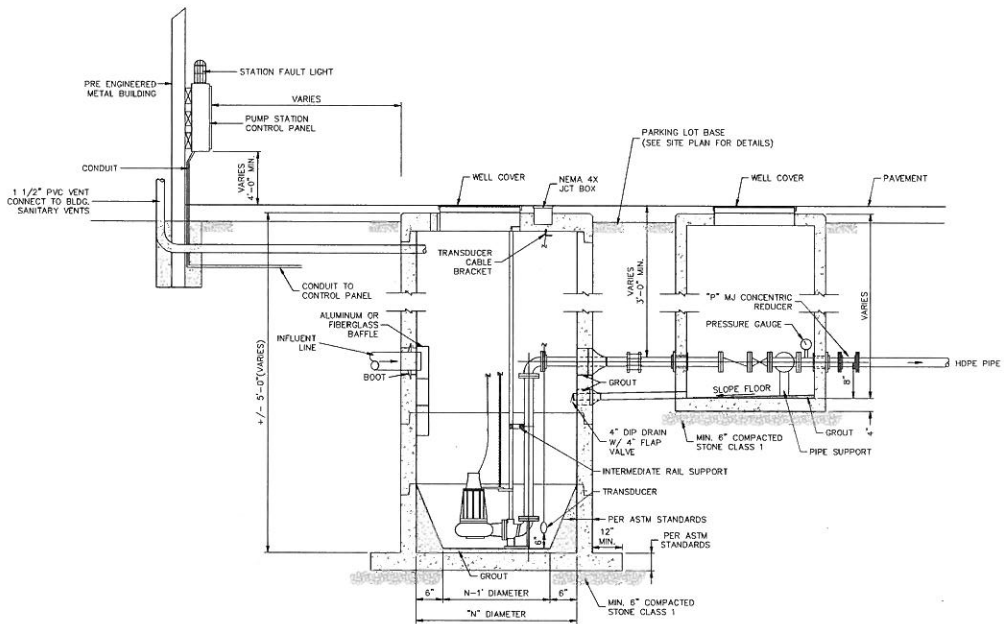
3 TYPICAL BOLLARD
C-3 SCALE: NONE



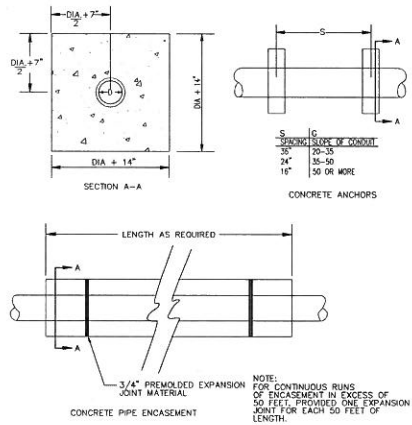
4A CONCRETE APRON
C-3 SCALE: NONE



4B RETAINING WALL
C-3 SCALE: NONE



5 PUMP STATION and VALVE PIT SECTION
C-3 SCALE: NONE



6 CONCRETE ANCHORS and PIPE ENCASEMENT
C-3 SCALE: NONE

COONSKIP PARK MAINTENANCE FACILITY
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 BULKI
 2008 0000 0000 0000
 2008 0000 0000 0000

REV	DESCRIPTION	DATE	BY	CHECKED

DATE:	12/10/13	REV:	
PROJECT NO.:	135625	DATE:	
DESIGNER:	MP	DRAWING NO.:	
REVIEWER:		DATE:	
DATE:	12/10/13	REV:	
PROJECT NO.:	135625	DATE:	
DESIGNER:	MP	DRAWING NO.:	
REVIEWER:		DATE:	

COONSKIP PARK MAINTENANCE FACILITY

SITE DETAILS

Sheet reference number:

0029

ABBREVIATIONS

ACP	ACOUSTIC CEILING PANEL	FE	FIRE EXTINGUISHER	MSC	MISCELLANEOUS	STR	STRUCTURE
ATF	ABOVE FINISH FLOOR	FEC	FIRE EXTINGUISHER CABINET	MO	MASONRY OPENING	STO	STORAGE
ALUM	ALUMINUM	FL	FLOOR	MR	MOISTURE RESISTANT	SPEC	SPECIFICATION
AUTO	AUTOMATIC	FD	FLOOR DRAIN	MS	METAL STUD	SS	STAINLESS STEEL
ABV	ABOVE	FTG	FOOTING	MTL	METAL	STN	STAIN
BC	BOTTOM OF CURB	GA	GAUGE	NA	NOT APPLICABLE	STD	STANDARD
BLO	BLOCK	CALV	CALVANIZED	NO	NUMBER	SUSP	SUSPENDED
BLK	BLOCK	GC	GENERAL CONTRACTOR	NO	NOMINAL	TC	TOP OF CURB
BRG	BEARING	GL	GLASS	NTS	NOT TO SCALE	TH	THICK
BLKG	BLOCKING	GOVT	GOVERNMENT	NIC	NOT IN CONTRACT	TYP	TYPICAL
BD	BOARD	GYP	GYP/SUM	OPG	OPENING	TR	TREAD
BLDG	BUILDING	GWB	GYP/SUM WALLBOARD	OC	ON CENTER	T.O.	TOP OF
CLG	CEILING	HT	HEIGHT	OH	OVERHEAD	TELE	TELEPHONE
CONC	CONCRETE	HC	HANDICAPPED	OPP	OPPOSITE	TEMP	TEMPERED/TEMPORARY
CONTR	CONTRACTOR	HOW	HARDWARE	PL	PLATE	UNF	UNFINISHED
CONTR	CONTRACTOR	HTG	HEATING	PLAM	PLASTIC LAMINATE	UNO	UNLESS NOTED OTHERWISE
CMU	CONCRETE MASONRY UNIT	HVAC	HEATING/VENTILATING/	PLYWD	PLYWOOD	USAR	UNITED STATES ARMY RESERVE
CT	CERAMIC TILE	AC	AIR CONDITIONING	PNL	PANEL	VERT	VERTICAL
C.J.	CONTROL JOINT	HM	HOLLOW METAL	PREF	PREFABRICATED	VF	VERIFY IN FIELD
CRS	COURSE	INSL	INSULATION	PERF	PERFORATED	WD	WOOD
DIAM	DIAMETER	INT	INTERIOR	PR	PAIR	WH	WATER HEATER
DN	DOWN	JT	JOINT	PT	PAINT	WWF	WELDED WIRE FABRIC
DTL	DETAIL	JAN	JANITOR	QT	QUARRY TILE	W/O	WITHOUT
DWG	DRAWING	LAM	LAMINATE	R	RISER		
EA	EACH	LAV	LAVATORY	RD	RADIUS		
EFS	EXTERIOR INSULATION AND FINISH SYSTEM	LH	LEFT HAND	RD	ROOF DRAIN		
EW	ELECTRIC WATER COOLER	LT	LIGHT	REF	REFERENCE		
EXP	EXPANSION	RFN	REFINISHED	RH	RIGHT HAND		
EXT	EXTERIOR	MAS	MASONRY	ROW	RIGHT OF WAY		
EQUIP	EQUIPMENT	MAX	MAXIMUM	RM	ROOM		
ELEC	ELECTRIC	MECH	MECHANICAL	RO	ROUGH OPENING		
EL	ELEVATION	MFR	MANUFACTURER	RWC	RAINWATER CONDUCTOR		
EMER	EMERGENCY	MIN	MINIMUM	SM	SIMILAR		
F/	FACE OF	MIR	MIRROR	STL	STEEL		
EO	EQUAL						

GENERAL NOTES

- STANDARDS AND REGULATIONS:
- CONTRACTOR SHALL PERFORM ALL WORK IN CONFORMANCE WITH APPLICABLE BUILDING CODES, REGULATIONS, ORDINANCES, UTILITY PROVIDER REQUIREMENTS, AND SIMILAR STANDARDS.
 - CONTRACTOR SHALL OBTAIN ALL REQUIRED INSPECTIONS OF THE WORK. CONTRACTOR SHALL REGULARLY UPDATE OWNER AND ARCHITECT REGARDING THE STATUS OF INSPECTIONS.
 - CONTRACTOR SHALL COORDINATE WORK WITH APPLICABLE UTILITY PROVIDERS.
 - CONTRACTOR SHALL BE FAMILIAR WITH REQUIREMENTS AND CONSTRUCTION SHALL BE IN COMPLIANCE WITH REFERENCED FIRE-RATED ASSEMBLY TESTS AND STANDARDS.
- ADMINISTRATION OF THE WORK:
- CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE MEANS, METHODS, AND SEQUENCES OF CONSTRUCTION AND DIMENSIONS.
 - CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR THE SAFETY OF ALL CONSTRUCTION PERSONNEL AND AUTHORIZED VISITORS AT THE SITE.
 - CONTRACTOR SHALL BECOME FULLY ACQUAINTED WITH CONDITIONS RELATED TO THE WORK. ANY KNOWN DISCREPANCIES BETWEEN THE DOCUMENTS AND THE ACTUAL CONDITIONS SHALL BE REPORTED TO THE OWNER FOR RESOLUTION PRIOR TO PROCEEDING WITH WORK RELATED TO THE DISCREPANCY.
 - CONTRACTOR SHALL REMOVE AND PROPERLY DISPOSE OF ALL CONSTRUCTION AND DEMOLITION DEBRIS. CONTRACTOR SHALL OBTAIN APPROVAL OF OWNER FOR DETAILS RELATING TO THE REMOVAL OF TRASH, INCLUDING SUCH ISSUES AS PATH OF TRAVEL, REMOVAL OF WINDOWS, LOCATION OF CHUTES AND DUMPSTERS, ETC., PRIOR TO REMOVAL OF DEBRIS. CONTRACTOR SHALL CLEAN AND REPAIR ANY DAMAGES TO EXISTING ITEMS SOLED OR DAMAGED BY THE DEBRIS REMOVAL PROCESS. IF CLEANING AND/OR REPAIR DOES NOT RETURN ITEMS TO ORIGINAL CONDITION CONTRACTOR SHALL INSTALL NEW ITEMS.
 - CONTRACTOR SHALL BECOME FAMILIAR WITH AND COMPLY WITH OWNER'S PROCEDURES FOR MAINTAINING A SECURE SITE AND BUILDING.
 - EACH INSTALLER SHALL EXAMINE ALL SUBSTRATE CONDITIONS AND/OR SITE CONDITIONS WHICH AFFECT THE QUALITY OF EACH PRODUCT TO BE INSTALLED. IF ANY CONDITIONS EXIST WHICH WILL HAVE A DETRIMENTAL EFFECT ON THE QUALITY OF THE INSTALLATION, THE INSTALLER SHALL IMMEDIATELY NOTIFY THE CONTRACTOR. INSTALLATION SHALL NOT PROCEED UNTIL THE UNSATISFACTORY CONDITIONS ARE CORRECTED. INSTALLATION SHALL SIGNIFY ACCEPTANCE OF THE CONDITIONS.
 - CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS ON THE SITE AT ALL TIMES.
 - CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING COORDINATION EFFORTS OF ALL SUBCONTRACTORS.
 - CONTRACTOR SHALL LAY OUT ALL WORK AS SOON AS POSSIBLE. ANY DISCREPANCIES SHALL BE REPORTED TO THE OWNER FOR RESOLUTION PRIOR TO PROCEEDING WITH THE WORK IN QUESTION. USE OF CONSTRUCTION DOCUMENTS.
- DO NOT SCALE DRAWINGS. ONLY WRITTEN DIMENSIONS OR KEYED NOTES SHALL BE USED. CONTACT ARCHITECT IF CLARIFICATION OR ADDITIONAL INFORMATION IS REQUIRED.
 - THE DRAWINGS ARE SCHEMATIC IN NATURE. MODIFICATIONS IN DUCTS, PIPING, CONDUIT AND WIRING MAY BE REQUIRED TO ACCOMMODATE ACTUAL FIELD CONDITIONS.
 - DRAWINGS SHALL NOT BE REPRODUCED FOR SUBMITTALS.
 - DIMENSIONS ARE AS FOLLOWS UNLESS NOTED OTHERWISE:
 - CENTERLINE OF GYPSUM WALLS.
 - CENTERLINE OF COLUMNS.
 - TO TOP OF FLOOR SLAB.
 - TO BOTTOM OF FINISHED CEILING.
 - TO FACE OF MASONRY OR CONCRETE.
 - VERIFY IN FIELD DIMENSIONS OF ALL DOOR, WINDOW AND LOUVER OPENINGS.
- DEFINITIONS:
- "ALIGN" AS USED IN THESE DOCUMENTS SHALL MEAN TO ACCURATELY LOCATE FINISH FACES IN THE SAME PLANE AND/OR TO INSTALL NEW CONSTRUCTION ADJACENT TO EXISTING CONSTRUCTION WITHOUT ANY VISIBLE JOINTS OR SURFACE IRREGULARITIES.
 - "CLEAR" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS NOT ADJUSTABLE WITHOUT APPROVAL OF THE ARCHITECT. CLEAR DIMENSIONS ARE TYPICALLY TO FINISH FACE.
 - "MAXIMUM" OR "MAX" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS SLIGHTLY ADJUSTABLE BUT MAY NOT VARY TO A DIMENSION OR QUANTITY GREATER THAN THAT SHOWN WITHOUT APPROVAL OF THE ARCHITECT.
 - "MINIMUM" OR "MIN" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION IS SLIGHTLY ADJUSTABLE BUT MAY NOT VARY TO A DIMENSION OR QUANTITY LESS THAN THAT SHOWN WITHOUT APPROVAL OF THE ARCHITECT.
 - "TYPICAL" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE CONDITION OR DIMENSION IS THE SAME OR REPRESENTATIVE FOR SIMILAR CONDITIONS THROUGHOUT.
 - "*" AS USED IN THESE DOCUMENTS SHALL MEAN THAT THE DIMENSION OR QUALITY IS SLIGHTLY ADJUSTABLE TO ACCOMMODATE ACTUAL CONDITIONS, FIELD VARIATION AND COORDINATION WITH OTHER ELEMENTS MIGHT BE NECESSARY.

SYMBOLS LEGEND

ROOM NAME XXXX	ROOM NAME ROOM NUMBER
	PARTITION TYPE
	DOOR NUMBER
	SECTION CALL-OUT
	DETAIL CALL-OUT
	INTERIOR ELEVATION CALL-OUT
10.01	KEYNOTE
	WINDOW TYPE
	TOILET ACCESSORY
	ELEVATION CALL-OUT
	DETAIL REFERENCE NUMBER SHEET NUMBER DETAIL IS DRAWN ON
	ELEVATION MARK
	METAL STUD AND GWB PARTITION
	CONCRETE
	BRICK
	CONCRETE BLOCK
	FIBERGLASS BATT INSULATION
	RIGID BOARD INSULATION
	CONCRETE OR GROUT (DRAWN IN SECTION)
	CONCRETE PAVING (DRAWN IN PLAN)

COONSKIN PARK MAINTENANCE FACILITY

Baker

REVISION	DATE	DESCRIPTION	BY	CHKD

Drawn by: DJP
Checked by: DJP
Designed by: DJP
Reviewed by: DJP

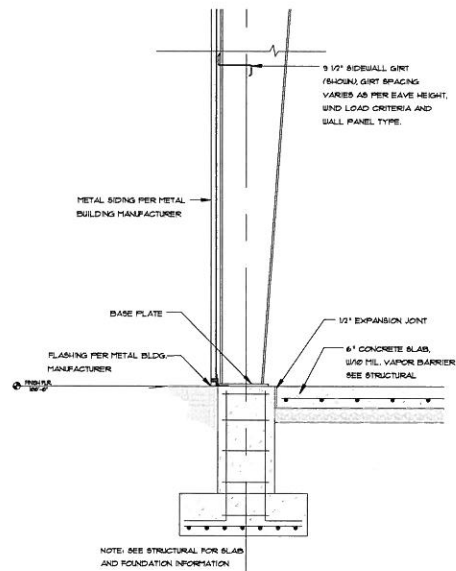
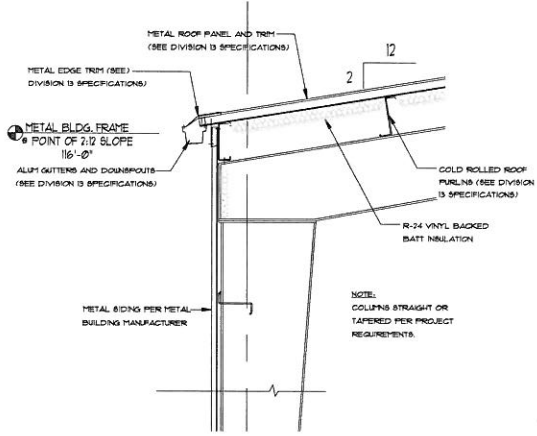
Date: 12/10/13
Project No.: 135625
Drawing title:
File name: 12/10/13
File code: RLB

COONSKIN PARK MAINTENANCE FACILITY

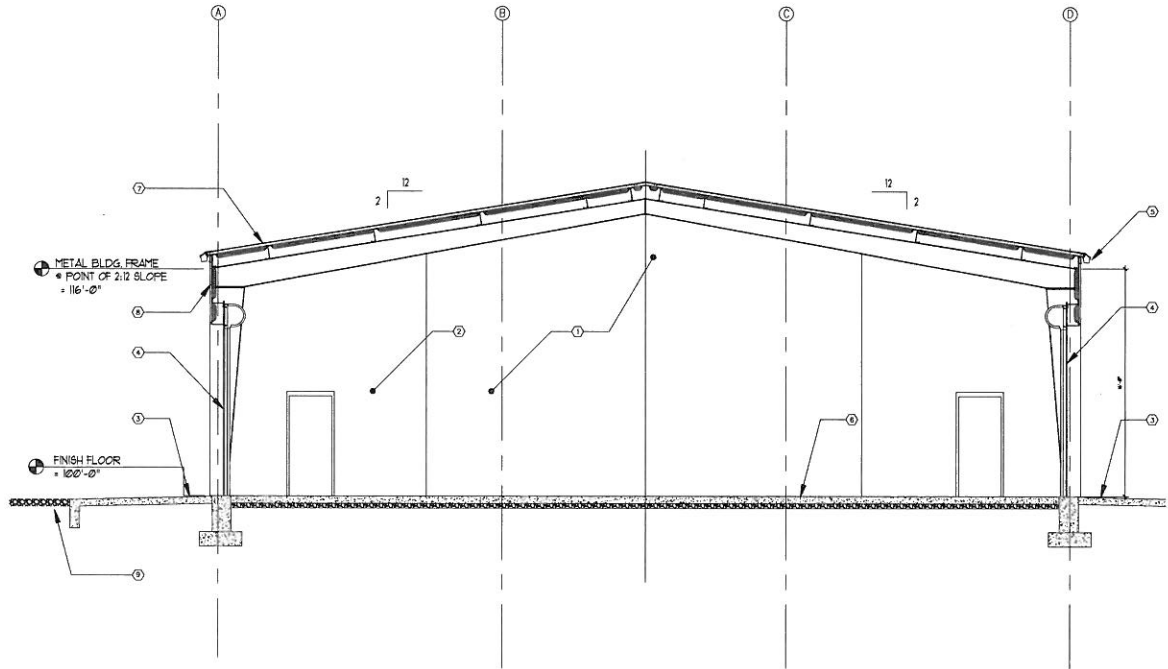
ABBREVIATIONS, SYMBOLS LEGEND, AND GENERAL NOTES

Sheet reference number: A-0.1

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2 WALL SECTION
SCALE: 3/4" = 1'-0"



1 BUILDING SECTION
SCALE: 3/4" = 1'-0"

KETED NOTES:

- ① FUTURE CMU WALL
- ② FIRE RATED CMU WALL
- ③ CONCRETE APRON - SEE CHL
- ④ COLLING OVERHEAD DOOR
- ⑤ GUTTER
- ⑥ 4" CONCRETE SLAB - SEE STRUCTURAL
- ⑦ PRE-ENGINEERED BUILDING ROOFING SYSTEM
- ⑧ PRE-ENGINEERED BUILDING WALL SYSTEM
- ⑨ GRAVEL DRIVE- RAMP UP AT APRONS

COONSKIP PARK MAINTENANCE FACILITY

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REV.	DESCRIPTION	DATE

Designed by: RLB
Date: 12/10/13
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COONSKIP PARK
MAINTENANCE FACILITY

SCHMATIC
BUILDING SECTION

Sheet reference number:
A-3

000034

GENERAL
 THESE NOTES ARE FOR GENERAL INFORMATION. SEE SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.

THE CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, DIMENSIONS, AND ELEVATIONS BEFORE PROCEEDING WITH THE WORK, AND DISCREPANCIES BETWEEN THE CONTRACT DOCUMENTS AND THE ACTUAL FIELD CONDITIONS MUST BE REPORTED IMMEDIATELY TO THE ENGINEER/ARCHITECT.

COORDINATE WITH THE ARCHITECTURAL DRAWINGS FOR LIMITS, SHELF ANGLES, SIZE AND LOCATION OF FLOOR SLABS, DEPRESSURE AREAS, FINISH FLOORS, CHIMNEYS, GROOVES, ROOF EDGES, INSERTS, ETC.

COORDINATE WITH MECHANICAL AND ELECTRICAL DRAWINGS FOR PIPE SLEEVES, FLOOR DRAINS, ROOF DRAINS, INSERTS, HANGERS, TRENCHES, PITS, WALL AND SLAB OPENINGS, CONDUIT RUNS IN WALLS AND SLABS, SIZE AND LOCATION OF MACHINE OR EQUIPMENT SUPPORTS, BASE AND ANCHOR BOLTS, ETC.

COORDINATE WITH SITE, ARCHITECTURAL, ELECTRICAL, MECHANICAL, AND CIVIL DRAWINGS FOR RETAINING WALLS, PADS, PAVEMENT AND OTHER EXTERIOR STRUCTURES.

SHOW DRAWINGS PREPARED BY SUPPLIERS AND SUBCONTRACTORS SHALL BE REVIEWED AND APPROVED BY THE GENERAL CONTRACTOR PRIOR TO SUBMISSION TO THE ENGINEER/ARCHITECT.

THE STRUCTURE IS DESIGNED TO BE STABLE AND SELF-SUPPORTING AT THE COMPLETION OF CONSTRUCTION. IT IS THE CONTRACTOR'S SOLE RESPONSIBILITY TO DETERMINE THE ERECTION SEQUENCE AND SEQUENCE TO ENSURE THE STABILITY AND SAFETY OF THE BUILDING AND ITS COMPONENT PARTS, AND THE ADEQUACY OF TEMPORARY OR INCOMPLETE CONNECTIONS DURING CONSTRUCTION. THIS INCLUDES, BUT IS NOT LIMITED TO, THE ADDITION OF WHATEVER TEMPORARY BRACING, SHORING OR TIE-DOWNS THAT MAY BE NECESSARY.

DESIGN LOADS

DEAD LOADS: SELF-WEIGHT

LIVE LOADS:
 FIRST FLOOR 100 PSF
 ROOF 20 PSF

ROOF SNOW LOADS:
 GROUND SNOW LOAD, P_g 30 PSF
 ROOF SNOW LOAD 23 PSF
 EXPOSURE FACTOR, C_e 1.0
 THERMAL FACTOR, C_t 1.0
 SLIDING SNOW SURCHARGE 0 PSF
 RAIN-ON-SNOW SURCHARGE 5 PSF

WIND DESIGN DATA:
 BASIC WIND SPEED (3-SECOND DUST) 90 MPH
 WIND IMPORTANCE FACTOR, I_w 1.0
 BUILDING CATEGORY II
 WIND EXPOSURE C

POSITIVE ROOF PRESSURE, COMPONENTS AND CLADDING 11 PSF
NEGATIVE ROOF PRESSURE, COMPONENTS AND CLADDING 44 PSF
POSITIVE WALL PRESSURE, COMPONENTS AND CLADDING 19 PSF
NEGATIVE WALL PRESSURE, COMPONENTS AND CLADDING 25 PSF

EARTHQUAKE DESIGN DATA:
 SEISMIC IMPORTANCE FACTOR, I_e 1.0
 SEISMIC USE GROUP 1
 SITE CLASS C
 MAXIMUM SPECTRAL RESPONSE ACCELERATIONS, S_s AND S₁ 21.5% and 8.7%
 SPECTRAL RESPONSE COEFFICIENTS, S_{DS} AND S_{1S} 22.8% and 13.8%
 SEISMIC DESIGN CATEGORY C

BASIC SEISMIC-FORCE-RESISTING SYSTEM BEARING WALL SYSTEM
 LIGHT FRAMES WALL SYSTEM
 USING FLAT STRAP BRACING

SEISMIC RESPONSE COEFFICIENT, C_s 5.7%
 RESPONSE MODIFICATION FACTOR, R 4.0
 ANALYSIS PROCEDURE USED EQUIVALENT LATERAL FORCE

CODES AND SPECIFICATIONS

- INTERNATIONAL BUILDING CODE - 2006 EDITION
- AMERICAN CONCRETE INSTITUTE:
 - ACI 301 - SPECIFICATIONS FOR STRUCTURAL CONCRETE
 - ACI 302.1R - GUIDE FOR CONCRETE FLOOR AND SLAB CONSTRUCTION
 - ACI 304R - GUIDE FOR MEASURING, MIXING, TRANSPORTING AND PLACING CONCRETE
 - ACI 311.1R - ACI MANUAL OF CONCRETE INSPECTION (SP-27)
 - ACI 315 - DETAILS AND DETAILING OF CONCRETE REINFORCEMENT
 - ACI 318 - BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE
 - ACI 347R - GUIDE TO FORMWORK FOR CONCRETE
 - ACI 309 - STEEL REINFORCEMENT MANUAL
 - ACI 530 - BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES
- AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC) - MANUAL OF STEEL CONSTRUCTION - ALLOWABLE STRESS DESIGN, 13TH EDITION
- SDI-01 - "SPECIFICATIONS AND COMMENTARIES FOR NONCOMPOSITE STEEL DECK" - "SPECIFICATIONS AND COMMENTARY FOR STEEL ROOF DECK"

- ABBREVIATIONS**
- AB = ANCHOR BOLT
 - C/C = CENTER TO CENTER
 - CONT = CONTINUOUS
 - EF = EACH FACE
 - EL = ELEVATION
 - EW = EACH WAY
 - FD = FLOOR DRAIN
 - I = ISOLATION JOINT
 - O.C. = ON CENTER
 - SP = SPACE
 - TAB = TOP AND BOTTOM
 - TOP = TOP
 - U.N.O. = UNLESS NOTED OTHERWISE
 - WWR = WELDED WIRE REINFORCEMENT

CONCRETE AND REINFORCEMENT

CONCRETE WORK SHALL CONFORM TO ALL REQUIREMENTS OF ACI 301, SPECIFICATIONS FOR STRUCTURAL CONCRETE FOR BUILDINGS.

ALL CONCRETE WORK SHALL BE IN ACCORDANCE WITH THE BUILDING CODE REQUIREMENTS FOR STRUCTURAL CONCRETE ACI 318.

ALL REINFORCING DETAILS SHALL CONFORM TO DETAILS AND DETAILING OF REINFORCEMENT ACI 315, UNLESS DETAILED OTHERWISE ON THE STRUCTURAL DRAWINGS.

VERIFY LOCATIONS OF ALL OPENINGS, SLEEVES, ANCHOR BOLTS, INSERTS, ETC., AS REQUIRED BY OTHER TRADES BEFORE CONCRETE IS PLACED. NO SLEEVES, OPENING, ANCHOR BOLT, OR INSERT, SHALL BE CAST INTO CONCRETE UNLESS SHOWN ON SHOP DRAWINGS WHICH HAVE BEEN REVIEWED BY THE ENGINEER.

PROVIDE ADEQUATE BOLTS, BRACKETS, SUPPORT BARS, ETC., TO MAINTAIN SPECIFIED CLEARANCES FOR THE ENTIRE LENGTH OF ALL REINFORCING BARS. CONTRACTOR SHALL SUBMIT PROPOSED CONSTRUCTION JOINT LOCATIONS AND DETAILS TO THE ENGINEER FOR REVIEW.

PROVIDE 1/4-INCH CHAMFER ON ALL EXPOSED CORNERS OF COLUMNS, BEAMS AND WALLS UNLESS OTHERWISE INDICATED ON THE ARCHITECTURAL DRAWINGS.

ALL REINFORCING DETAILS SHALL CONFORM TO DETAILS AND DETAILING OF REINFORCEMENT ACI 315, UNLESS DETAILED OTHERWISE ON THE STRUCTURAL DRAWINGS.

DO NOT PLACE REINFORCING STEEL OR CONCRETE FOR FOOTINGS AND SLABS ON GRADE UNTIL THE BEARING SURFACE HAS BEEN APPROVED BY THE ENGINEER.

DO NOT PLACE CONCRETE IN DIGGATIONS CONTAINING WATER OR FROZEN SOIL.

VERIFY LOCATIONS OF ALL OPENINGS, SLEEVES, ANCHOR BOLTS, INSERTS, ETC., AS REQUIRED BY OTHER TRADES BEFORE CONCRETE IS PLACED, NO SLEEVES, OPENING, ANCHOR BOLT, OR INSERT, SHALL BE CAST INTO CONCRETE UNLESS SHOWN ON SHOP DRAWINGS WHICH HAVE BEEN REVIEWED BY THE ENGINEER.

IN CONSTRUCTION JOINTS IN BEAMS, SUPPORTED SLABS AND WALL FOOTINGS, PROVIDE HORIZONTAL KEYSWAY AT MEMBER CENTERLINE WITH A DEPTH OF 1 1/2 INCH AND HEIGHT EQUAL TO ONE-THIRD OF THE MEMBERS DEPTH.

ALL SLAB ON GRADE CONSTRUCTION JOINTS TO BE TOOLED (1/8" X 2" DEEP) AND FILLED WITH SEALANT U.N.O.

FINISH CONCRETE SLABS TO FLOOR DRAINS SHOWN ON MECHANICAL AND ARCHITECTURAL DRAWINGS.

IN CONSTRUCTION JOINTS IN SLABS, WALL FOOTINGS PROVIDE HORIZONTAL KEYSWAY AT MEMBER CENTERLINE WITH A DEPTH OF 1 1/2 INCH AND HEIGHT EQUAL TO ONE-THIRD OF THE MEMBERS DEPTH. CONTINUE REINFORCING THROUGH JOINT. SUBMIT LOCATION OF JOINTS FOR APPROVAL.

SEE ARCHITECTURAL DRAWINGS FOR FINISH MATERIAL APPLIED TO CONCRETE SURFACES. COORDINATE CONCRETE DIMENSIONS, LEVELS, ETC. WITH ARCHITECTURAL DETAILS.

ALLOW 12 HOURS TO ELAPSE BETWEEN ADJACENT CONCRETE PLACES.

ALL WELDED WIRE FABRIC SHALL BE SUPPLIED IN MATS (NOT ROLLS).

ALL ALUMINUM IN CONTACT WITH CONCRETE SHALL BE COATED WITH TWO COATS OF MASTIC.

LAP SPlice WELDED WIRE FABRIC ONE SPACE PLUS 2 INCHES AT EDGES AND ENDS AND PROVIDE ADDITIONAL REINFORCING WHERE SHOWN ON DRAWINGS. PLACE MESH 2 INCHES FROM TOP OF SLAB FOR SLABS ON GROUND AND 1 INCH FROM TOP OF SUPPORTED SLABS U.N.O.

NO HORIZONTAL ELECTRICAL CONDUIT SHALL BE PLACED IN SLABS.

MAXIMUM SPACING OF CONTROL JOINTS IN SLABS ON GRADE SHALL BE 12' FOR 4" SLABS, 12' FOR 5" SLABS, 15' FOR 6" SLABS, 18' FOR 7" SLABS, 20' FOR 8" SLABS. LENGTH TO WIDTH RATIO NOT TO EXCEED 1.25.

NEW CONCRETE SHALL BE BONDED TO THE EXISTING CONCRETE WITH A STRUCTURAL ADHESIVE BONDING AGENT PER SPECIFICATIONS OR APPROVED EQUAL BY ENGINEER. THE SELECTION OF THE SPECIFIC BONDING AGENT AS WELL AS THE PLACEMENT OF THE BONDING AGENT SHALL BE AS PER THE MANUFACTURER'S RECOMMENDATIONS.

PROVIDE A VAPOR BARRIER UNDER ALL INTERIOR SLABS ON GRADE PER SPECIFICATIONS.

STRUCTURAL GENERAL NOTES

CONCRETE PROTECTION (COVER) FOR REINFORCEMENT BARS SHALL BE AS FOLLOWS:

CAST-IN-PLACE CONCRETE CONCRETE CAST AGAINST AND PERMANENTLY EXPOSED TO EARTH	3 IN.
CONCRETE EXPOSED TO WEATHER OR THROUGH #18 BARS #5 BAR, W31 OR D31 WIRE AND SMALLER	2 IN. 1 1/2 IN.
CONCRETE NOT EXPOSED TO WEATHER OR IN CONTACT WITH GROUND SLABS, WALL JOISTS #11 BAR AND SMALLER	N/A

ALL REINFORCING STEEL LAP SPLICES SHALL CONFORM TO THE MINIMUM LAP SPLICE AND ANCHORAGE DIMENSION TABLE UNLESS SHOWN OR NOTE OTHERWISE. ANCHORAGE DIMENSION SHALL BE AS SHOWN OR NOTED.

MINIMUM LAP SPLICE AND ANCHORAGE DIMENSION TABLE (4,000 PSI CONCRETE)					
TOP BARS			OTHER BARS		
BAR SIZE	SPLICE ANCHORAGE	BAR SIZE	SPLICE ANCHORAGE	BAR SIZE	SPLICE ANCHORAGE
#3	16" 12"	#3	16" 12"	#3	16" 12"
#4	20" 15"	#4	16" 12"	#4	16" 12"
#5	24" 19"	#5	19" 15"	#5	19" 15"
#6	29" 23"	#6	23" 17"	#6	23" 17"
#7	42" 33"	#7	33" 25"	#7	33" 25"
#8	49" 37"	#8	37" 29"	#8	37" 29"

NOTES:

1. WHEN LAPPING TWO DIFFERENT SIZE BARS, USE THE SPLICE DIMENSION OF THE SMALLER BAR OR THE ANCHORAGE DIMENSION OF THE LARGER BAR. USE WHICHEVER DIMENSION IS LARGER.
2. TOP BARS SHALL BE BEAM AND SLAB HORIZONTAL REINFORCEMENT SO PLACED THAT MORE THAN 12 INCHES OF FRESH CONCRETE IS CAST IN THE MEMBER BELOW THE TOP REINFORCEMENT.
3. ALL STANDARD HOOKS PER ACI-318.
4. THIS TABLE SHALL NOT BE USED WHERE CLEAR COVER IS LESS THAN 2" OR WHERE CENTER TO CENTER BAR SPACING IS LESS THAN 6".

ALL CONTINUOUS VERTICAL OR HORIZONTAL BARS IN FOOTINGS, FOUNDATION WALLS, SLABS, PIER, AND OTHER CONCRETE SHALL BE LAP-SPLICED BY WRING TOGETHER IN CONTACT, U.N.O.

ALLOW 12 HOURS TO ELAPSE BETWEEN ADJACENT CONCRETE PLACES.

ALL WELDED WIRE FABRIC SHALL BE SUPPLIED IN MATS (NOT ROLLS).

ALL ALUMINUM IN CONTACT WITH CONCRETE SHALL BE COATED WITH TWO COATS OF MASTIC.

LAP SPlice WELDED WIRE FABRIC ONE SPACE PLUS 2 INCHES AT EDGES AND ENDS AND PROVIDE ADDITIONAL REINFORCING WHERE SHOWN ON DRAWINGS. PLACE MESH 2 INCHES FROM TOP OF SLAB FOR SLABS ON GROUND AND 1 INCH FROM TOP OF SUPPORTED SLABS U.N.O.

NO HORIZONTAL ELECTRICAL CONDUIT SHALL BE PLACED IN SLABS.

MAXIMUM SPACING OF CONTROL JOINTS IN SLABS ON GRADE SHALL BE 12' FOR 4" SLABS, 12' FOR 5" SLABS, 15' FOR 6" SLABS, 18' FOR 7" SLABS, 20' FOR 8" SLABS. LENGTH TO WIDTH RATIO NOT TO EXCEED 1.25.

NEW CONCRETE SHALL BE BONDED TO THE EXISTING CONCRETE WITH A STRUCTURAL ADHESIVE BONDING AGENT PER SPECIFICATIONS OR APPROVED EQUAL BY ENGINEER. THE SELECTION OF THE SPECIFIC BONDING AGENT AS WELL AS THE PLACEMENT OF THE BONDING AGENT SHALL BE AS PER THE MANUFACTURER'S RECOMMENDATIONS.

PROVIDE A VAPOR BARRIER UNDER ALL INTERIOR SLABS ON GRADE PER SPECIFICATIONS.

STRUCTURAL STEEL

STRUCTURAL STEEL SHALL CONFORM TO THE AISC SPECIFICATIONS FOR THE DESIGN, FABRICATION, AND ERECTION OF STRUCTURAL STEEL FOR BUILDINGS, ALLOWABLE STRESS DESIGN.

WELDED CONNECTIONS SHALL CONFORM TO THE LATEST REVISED CODE OF THE AMERICAN WELDING SOCIETY, AND D1.1.

UNLESS SPECIFIC REACTIONS, MOMENTS, SHEARS AND AXIAL FORCES ARE INDICATED, PROVIDE BEAM CONNECTIONS DESIGNED FOR THE REACTION DUE TO MAXIMUM UNIFORM LOAD WHICH BEAM CAN SUPPORT AT ITS SPAN SHOWN IN AISC MANUAL OF STEEL CONSTRUCTION, ALLOWABLE STRESS DESIGN ON THE ALLOWABLE LOADS ON BEAM TABLES.

FRAMED BEAM CONNECTIONS SHALL BE USED WHERE POSSIBLE FOR CONNECTION OF ALL BEAMS, PURLINS, AND GIRDS UNLESS OTHERWISE SHOWN ON THE DRAWINGS.

CONNECTION PLATES SUCH AS COLUMN CAP PLATES, COLUMN BASE PLATES, AND OTHER SIMILAR CONNECTION PLATES SHALL BE SHOP WELDED TO STRUCTURAL STEEL MEMBERS WITH FULL-LENGTH, CONTINUOUS FILLET WELDS ON EACH SIDE OF PLATE UNLESS SHOWN OTHERWISE.

STEEL SHALL CONFORM TO THE FOLLOWING UNLESS OTHERWISE NOTED:

- STRUCTURAL WIDE FLANGES, ASTM A992, GRADE 50 KSI
- STRUCTURAL PLATES AND ANGLES, ASTM A572
- STRUCTURAL STEEL PIPE, ASTM A53, TYPE E OR S, GRADE B
- STRUCTURAL TUBING, ASTM A500, GRADE B, Fy - 48 KSI
- WELDING ELECTRODES SHALL BE E70XX LOW HYDROGEN SERIES.
- ANCHOR RODS SHALL CONFORM TO THE REQUIREMENTS OF ASTM 1554, GRADE 36.

ALL STRUCTURAL STEEL SHALL BE NEW AND UNLAPED, U.N.O.

SPLICING OF STRUCTURAL STEEL IS PROHIBITED EXCEPT AS DETAILED.

ALL BOLTED CONNECTIONS, U.N.O., SHALL BE MADE USING A325 HIGH STRENGTH BOLTS (U.N.O.).

EXCAVATION BACKFILL AND FOUNDATIONS

1.) REMOVE ALL UNSUITABLE FILLS AND ORGANIC SOILS ENCOUNTERED WITHIN AND BELOW THE AREA TO BE OCCUPIED BY SLABS ON GROUND AND FOUNDATIONS. THIS MATERIAL SHALL NOT BE USED FOR FILL WITHIN OR ADJACENT TO THE BUILDING.

2.) OVER EXCAVATE TO APPROXIMATELY 6" BELOW EXISTING GRADE AT ALL SPREAD FOOTING LOCATIONS AND PERIMETER FLOOR TO REMOVE THE EXISTING, PARTIALLY CONSOLIDATED FILL.

REPLACE UNDERLAY MATERIAL TO BOTTOM OF PROPOSED FOUNDATION ELEVATION AS FOLLOWS:

- A. ENGINEER-APPROVED STRUCTURAL FILL - BIKOPILL PLACED BELOW FOOTINGS SHALL BE COMPACTED TO NOT LESS THAN 98 PERCENT OF THE MAXIMUM DRY DENSITY AND THE MOISTURE CONTENT SHALL BE WITHIN 2 TO 3% OF OPTIMUM MOISTURE AS DETERMINED BY THE STANDARD PROCTOR METHOD, ASTM D-698.
- B. LEAN CONCRETE FILL -

REFER TO THE WDOT/DOT STANDARD SPECIFICATIONS FOR ROADS AND BRIDGES, LATEST EDITION, FOR MIXING, DELIVERY, PLACEMENT AND TESTING OF CLASS D CONCRETE.

3.) NOTIFY ENGINEER IF FOUNDATION CONDITIONS ENCOUNTERED DIFFER FROM SOILS EXPLORATION INFORMATION MADE AVAILABLE TO THE CONTRACTOR.

BELONGING SURFACES FOR FOUNDATIONS AND SLABS ON GRADE SHALL BE APPROVED PRIOR TO PLACING REINFORCING STEEL AND PRIOR TO PLACING CONCRETE.

FILL PLACED BELOW SLABS SHALL BE COMPACTED TO NOT LESS THAN 98 PERCENT OF THE MAXIMUM DRY DENSITY AND THE MOISTURE CONTENT SHALL BE WITHIN 2 TO 3% OF OPTIMUM MOISTURE AS DETERMINED BY THE STANDARD PROCTOR METHOD, ASTM D-698. BACKFILL TO BE PLACED IN LIFTS NOT TO EXCEED 8 INCHES.

FILL SHALL BE PLACED EVENLY ON BOTH SIDES OF FOUNDATION WALLS.

CENTER FOOTINGS UNDER COLUMNS OR WALLS UNLESS NOTED.

SOIL UNDER FOOTING SHALL BE PROTECTED AGAINST FREEZING.

DEWATER NEW EXCAVATION AS REQUIRED.

SHEAR WALLS (X-BRACED WALL)

PROVIDE METAL STRAPS AS REQUIRED IN AN X-BRACE ON EACH SIDE OF WALL AT LOCATIONS NOTED ON DRAWING. STRAP SHALL FIT IN SPACE WHERE SHOWN WITHOUT INTERFERING WITH OPENING AND FRAMING.

DESIGN LOAD FOR STRAP IS 45 LBS PER HORIZONTAL FOOT OF X-BRACED WALL.

PROVIDE DOUBLE WIDE FLANGE STUDS AT EACH END OF X BRACE AND SECURE STRAPS WITH WELD OR SCORDS FOR CALCULATED AXIAL FORCE ON STRAP.

BASE TRACK SHALL BE SECURED TO FLOOR SLAB WITH SUITABLE FASTENERS AT 12 INCHES MAX SPACING TO DECREASE SHEAR LOAD TO SLAB.

PRETENSION STRAPS AND SECURE TO ENDPOST STUDS AND ALL INTERMEDIATE STUDS.

ENDPOSTS FOR SHEARWALL SHALL BE DOUBLE STUDS WITH GUSSET PLATES (IF REQUIRED) FOR DRAGGING STRAPS AND HOLDDOWN ANCHOR RATED FOR A NOMINAL TENSION LOAD >>24,000 LBS (SMPSON MODEL SHOPS OR EQUAL). USE MINIMUM 1/2 INCH DIAMETER EPOXY OR EXPANDED BOLT INTO CONCRETE. SEE SPECIAL DETAIL FOR WELDED STUD HOLDDOWN ANCHORS AT EDGE OF SLAB. USE ANCHORS AS REQUIRED.

CONOSKIN PARK MAINTENANCE FACILITY

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 PROJECT NO: 135625
 DRAWING NO: 135625-01
 SHEET NO: 01

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CONOSKIN PARK MAINTENANCE FACILITY

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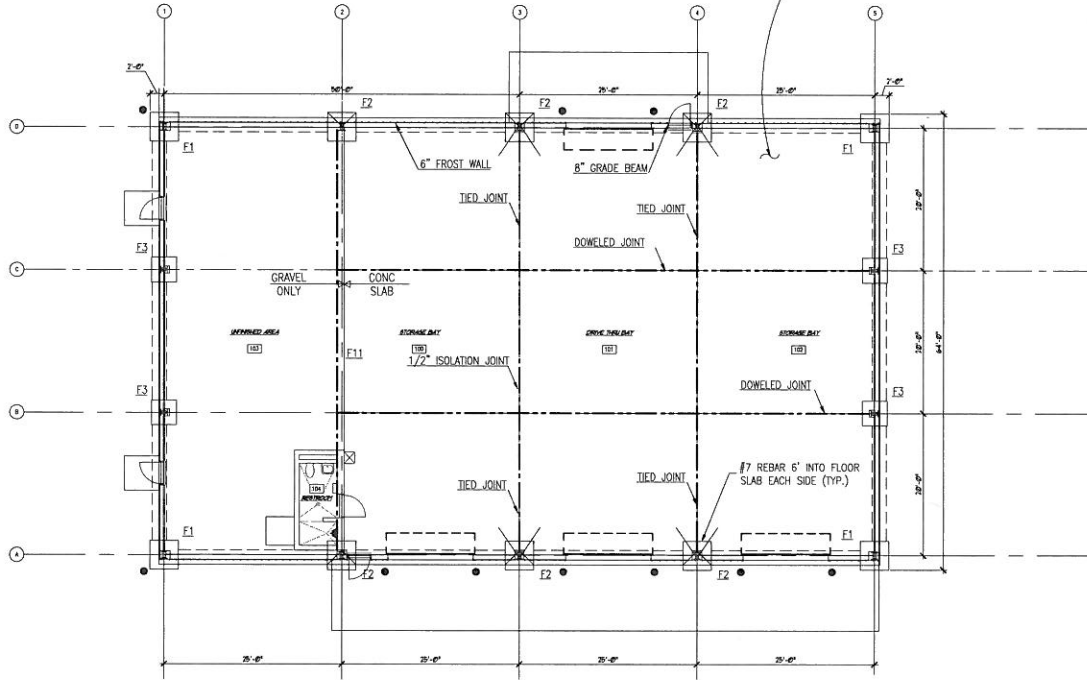
STRUCTURAL GENERAL NOTES

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GENERAL NOTES:

6" PCC FLOOR SLAB, WITH SMOOTH STEEL TROWEL FINISH AND COATED WITH CURING/HARDENING COMPOUND. SEE SITE WORK SPEC. NOTES FOR ALL OTHER CONCRETE REQUIREMENTS.



FOUNDATION PLAN
 1/8" = 1'-0"

FLOOR SLAB LEGEND

- TIED CONSTRUCTION JOINT
- 1' x 1/2" SAWCUT JOINT
- - - BUTT JOINT
- - - DOWELED CONSTRUCTION JOINT
- 1" ISOLATION JOINT
- ✓ - #7 HARPIN EMBED 6" ONTO FLOOR SLAB

COONSKIN PARK MAINTENANCE FACILITY

DATE: 12/10/13
 PROJECT: 135625
 DRAWING CODE: 135625-01
 SHEET NO: 1 OF 13

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Designed by: PWF
 Drawn by: MJD
 Checked by: RLB

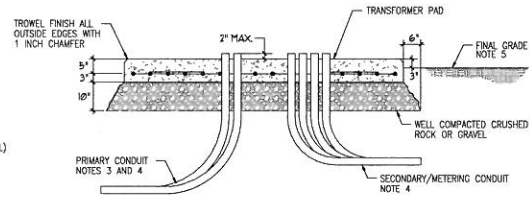
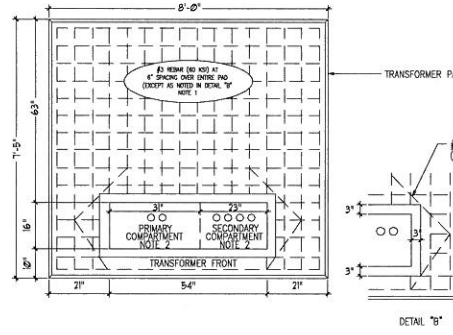
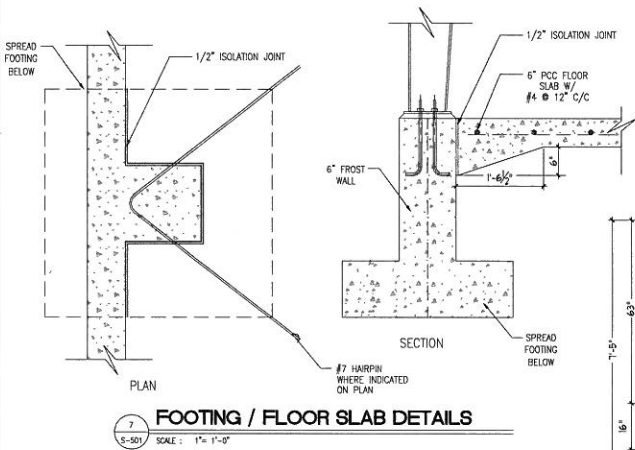
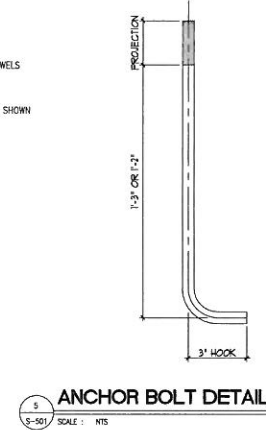
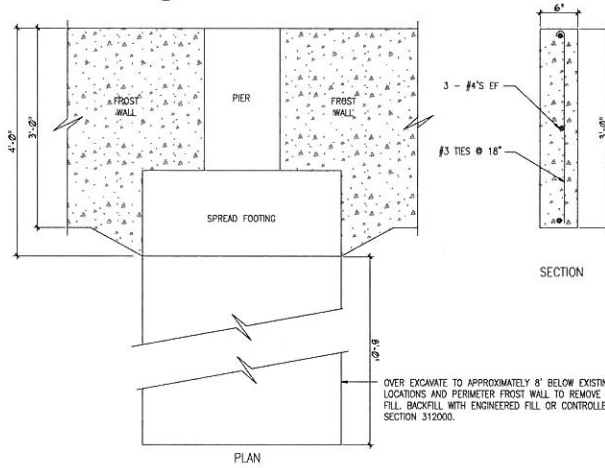
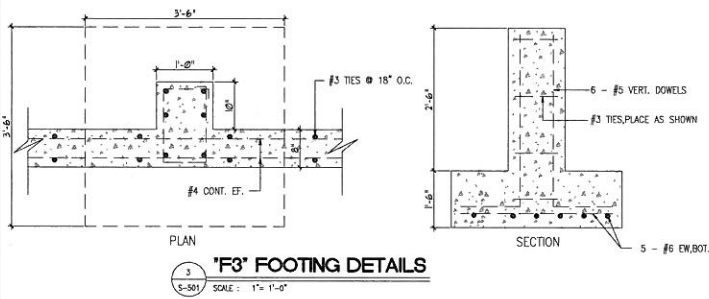
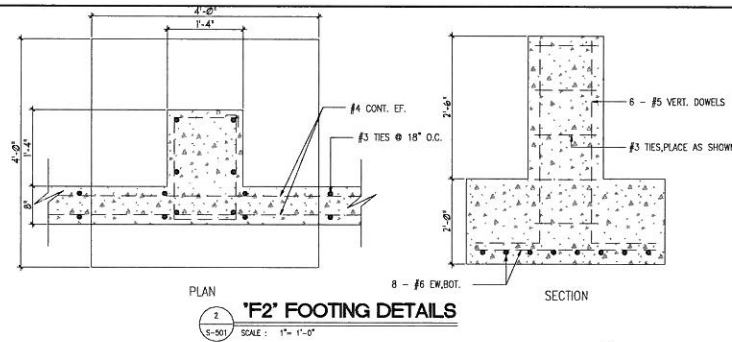
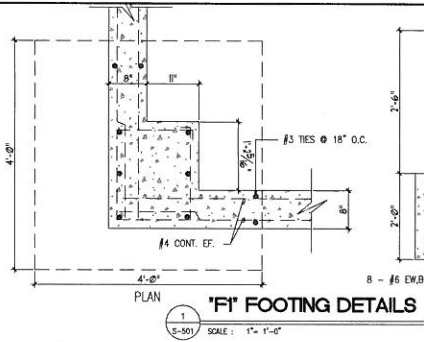
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COONSKIN PARK MAINTENANCE FACILITY

FOUNDATION PLAN



Sheet Reference
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 1




- NOTES:
1. PROVIDE 3,500 PSI CONCRETE WITH A MINIMUM 3 INCH COVER OVER ALL REBAR. WIRE MESH WITH A MINIMUM CROSS SECTIONAL AREA OF 0.178 SQUARE INCHES PER FOOT OF PAD WIDTH MAY BE USED IN PLACE OF REBAR.
 2. THE NUMBER AND PLACEMENT OF CONDUITS TO BE DETERMINED BY ENGINEERING. SECONDARY CONDUIT MAY EXTEND IN ANY DIRECTION AS REQUIRED BY THE CONSULTANT.
 3. PRIMARY CONDUIT NUMBER, SIZE, LOCATION AND DIRECTION TO BE SPECIFIED BY ENGINEERING. CONDUIT CAN BE FLEXIBLE, TYPE FIB OR 90 PNC CONDUIT WITH 90° 36 INCH RADIUS BENDS TO AVOID OBSTRUCTING THE GROUND UNDER THE REAR OF THE PAD AND TO MINIMIZE SETTLING. BRING CONDUITS TO THE FRONT OR SIDES WHICHEVER POSSIBLE AND MARK CONDUIT END LOCATIONS.
 4. BURIAL DEPTH IS DEFINED AS THE DISTANCE BETWEEN FINAL GRADE AND THE TOP OF THE BURIED CABLE OR CONDUIT. PRIMARY CABLES SHALL BE INSTALLED AT A BURIAL DEPTH OF NOT LESS THAN 2'-4". IF IT IS RECOMMENDED THAT PRIMARY CABLES AND SECONDARY CABLES HANGERS BURIAL DEPTHS OF 2'-4" AND 2'-0" RESPECTIVELY. THE INITIAL 3'-0" AND 2'-8" BURIAL DEPTHS ARE TO ALLOW FOR CHANGES IN SURFACE CONDITIONS.
 5. FINAL GRADE SHALL BE ESTABLISHED BEFORE INSTALLATION OF PAD.

REV.	DESCRIPTION	DATE	BY	CHKD

Drawn by: PWF	Scale:	Date: 12/10/13	Proj. No.: 135425
Checked by: RLB	Company Code:	Drawn by: RLB	Project Name: Coonskin Park
Reviewed by: RLB	Customer Code:	Project Manager: RLB	Project No.: 12/10/13

23000

PLUMBING SYMBOLS AND LEGEND

SYMBOL	ABREVEY	DESCRIPTION	SYMBOL	ABREVEY	DESCRIPTION	SYMBOL	ABREVEY	DESCRIPTION	SYMBOL	ABREVEY	DESCRIPTION	SYMBOL	ABREVEY	DESCRIPTION
	ABV	ABOVE	DFU	DRAINAGE FIXTURE UNIT	DNH	GAS WATER HEATER	P&T	PRESSURE & TEMPERATURE		VALVE IN RISE				
	AC	AIR COMPRESSOR	DIR	DIRECTION OF FLOW	DAV	DATE VALVE	PSI	PRESSURE PER SQUARE INCH	V	VENT PIPING				
	AD	AREA DRAIN	DN	DOWN	CD	CARBIDE DISPOSAL		PRESSURE REGULATOR WITH PRESSURE GAUGE	VTR	VENT THRU ROOF				
	AFF	ABOVE FINISHED FLOOR	DWG	DRAWING	CC	GENERAL CONTRACTOR		QUICK DISCONNECT	VU	VENT UP				
	AFR	ABOVE FINISHED ROOF	DV	DRAIN VALVE	CO	CLEAR OIL		RECIRCULATING PUMP	W-EC	WASTE ENGINE COOLANT				
	AFC	ABOVE FINISHED GRADE	ED	ENGINE OIL	GO	GENERAL CONTRACTOR		RELATIVE HUMIDITY	W-EO	WASTE ENGINE OIL				
	AP	ACCESS PANEL	EL	ELEVATION	GO	GENERAL CONTRACTOR		RAINWATER CONDUCTOR	WH	WALL HYDRANT				
	AO	AIR OUTLET	ELUP	ELEV UP	HB	HOSE BOB		SAFETY RELIEF VALVE	WC	WATER CLOSET				
	ATF	AUTOMATIC TRANSMISSION FLUID	EC	ENGINE COOLANT	HB	HOSE BOB & QUICK COUPLERS		SINK	WC	WATER COLUMN				
	AG	ANGLE GATE - ELEV.	EC	ELECTRICAL CONTRACTOR	H OR HW	HOT WATER PIPING		SHOCK ABSORBER W/POH AS INDICATED	WF	WASH FOUNTAIN				
	AG	ANGLE GATE - PLAN	EW	ELECTRIC WATER COOLER	HFR	HYDRULIC FLUID		SANITARY PIPING	W	WASTE				
	AHJ	AIR HANDLING UNIT	EWH	ELECTRIC WATER HEATER	HMR	HOT WATER RETURN		SHOWER	W/	WITH				
	AST	AIR BEING GROUND STORAGE TANK	ELEV	ELEVATION	HW	HOT WATER		SUPPLY FIXTURE UNIT	W/D	WITHOUT				
	BSF	BOTTOM OF ROOFING	EW	EMERGENCY EYE WASH	HV	HEATING AND VENTILATION		SQUARE FEET						
	BP (ASSE 1015)	BACKFLOW PREVENTER WITH TEST VALVES	ESDW	EMERGENCY SHOWER & EYE WASH	IRH	INFRARED RADIANT HEATER		STRAINER						
	BV	BALL VALVE	ET	EXPANSION TANK	IE	INSERT ELEVATION		TRENCH DRAIN						
	BW	BELOW	F	FIRE SUPPRESSION SUPPLY LINE	L OR LAV	LAVATORY		TE	TOP ELEVATION					
		BRANCH - BOTTOM CONNECTION	FN	FINISHED	LUB	LUBRICATOR		TEE OUTLET UP						
		BRANCH - TOP CONNECTION	FR	FILTER	M	METER		TEE OUTLET DOWN						
	BTUW	BRITISH THERMAL UNITS	F/R/L	FILTER/REGULATOR/ LUBRICATOR	MAX	MAXIMUM		TERM	TERMOMETER W/PET COCK					
	CAP	CAP	F/R	FILTER/REGULATOR	MC	MECHANICAL CONTRACTOR		TOP OF FOOTING						
	CB	CATCH BASIN	F/R	FILTER/REGULATOR	MIN	MINIMUM		TOP OF PIPE						
	CA	COMPRESSED AIR PIPE	FC	FIRE PROTECTION CONTRACTOR	MW	MWING VALVE		TRAP - PLAN						
	CH	CUBIC FEET PER HOUR	FD	FLOOR DRAIN W/TRAP	NC	NORMALLY CLOSED		TRAP PRIMER						
	CG	CHASSIS GREASE	FS	FLOOR SINK W/ GRATE SPECIFIED	NO	NORMALLY OPEN		TYP	TYPICAL					
		CHECK VALVE	FP	FLEXIBLE PIPING CONNECTION	OB	OUTLET BOX		TW	TEMPERED WATER					
	CO	CLEAN-OUT IN VERTICAL	FPE	FINISHED FLOOR ELEVATION	OW	OIL WASTE LINE		UNION						
	CO	CLEAN-OUT	FLR	FLOOR	OWS	OIL WATER SEPARATOR		URNAL						
	CO	CLEAN-OUT IN HORIZONTAL	FM	FORCE MAIN	PC	PLUMBING CONTRACTOR								
	OW	COLD WATER PIPING	FT	FOOT DR FEET	PCI	PLUMBING & DRAINAGE INSTITUTE								
	CONC	CONCRETE	FTG	FOOTING	PV	PLUG VALVE								
	CONN	CONNECTION	G	GAS - (PRESSURE)	POL	PETROLEUM OIL LUBRICANT								
	COND	CONDENSATION	GR	GAS REGULATOR	PRV	PRESSURE REDUCING VALVE								
	CONT	CONTINUATION	GL	GREASE LINE	PRV	PRESSURE REDUCING VALVE								
					PRV	PRESSURE REDUCING VALVE								

GENERAL NOTES:

- PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED, TO INSTALL COMPLETE FOR AN OPERABLE PLUMBING SYSTEM AS INDICATED ON THE DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY CODE.
- CONTRACT DOCUMENT DRAWINGS FOR PLUMBING WORK ARE DIMENSIONAL AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
- INSTALL ALL PLUMBING EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS, AND APPLICABLE CODES AND REGULATIONS.
- COORDINATE CONSTRUCTION OF ALL PLUMBING WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, SOILS, MECHANICAL, ELECTRICAL, ETC., AS SHOWN IN OTHER CONTRACT DOCUMENTS.
- ALL TESTS SHALL BE COMPLETED BEFORE ANY EQUIPMENT OR PIPING INSULATION IS APPLIED.
- LOCATE ALL TEMPERATURE, PRESSURE AND FLOW MEASURING DEVICES IN ACCESSIBLE LOCATIONS WITH A STRAIGHT SECTION OF PIPE UPSTREAM AND DOWNSTREAM, AS RECOMMENDED BY THE DEVICE MANUFACTURER FOR ACCURACY.
- WHERE TWO OR MORE PRODUCTS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCTS OF A SINGLE MANUFACTURER SHALL BE USED.
- COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL PIPING DIMENSIONS BEFORE FABRICATION.
- THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DRAWING DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATION NECESSARY TO ACHIEVE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS. DO NOT SCALE DRAWINGS.
- PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE VALVES AND OTHER CONCEALED PLUMBING EQUIPMENT, DEVICES, ETC. ACCESS PANELS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR FOR INSTALLATION.
- LOCATIONS AND SIZES OF ALL FLOOR, WALL AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
- ALL OPENINGS IN FIRE RESISTANCE RATED WALLS DUE TO DUCTWORK, PIPING, CONDUIT, ETC., SHALL BE FIRE STOPPED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM E 814 & UL 1479. SIMILARLY, SEAL/FIRESTOP AS REQUIRED AT SMOKE RATED SURFACES AS WELL.
- CERTAIN ITEMS SUCH AS RISERS AND DROPS IN PIPING, ACCESS DOORS, ETC., ARE INDICATED ON THE CONTRACT DOCUMENT DRAWINGS FOR CLARITY FOR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE TYPES OF ITEMS.
- LOCATE ALL PLUMBING EQUIPMENT FOR UNOBSTRUCTED ACCESS TO UNIT ACCESS PANELS, CONTROLS, VALVING, ETC.
- PROVIDE FLEXIBLE CONNECTIONS IN ALL PIPING CONNECTED TO UNIT HEATERS AND OTHER EQUIPMENT WHICH REQUIRES VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE INDICATED.
- INSTALL PIPING SO THAT ALL VALVES, STRAINERS, UNIONS, TRAPS, FLANGES AND OTHER APPURTENANCES REQUIRING ACCESS ARE EASILY ACCESSIBLE. ALL VALVES SHALL BE INSTALLED SO THAT THE VALVE REMAINS IN SERVICE WHEN EQUIPMENT OR PIPING ON EQUIPMENT SIDE OF VALVE IS REMOVED. ALL BALANCING VALVES AND BUTTERFLY VALVES SHALL BE PROVIDED WITH POSITION INDICATORS AND MAXIMUM ADJUSTABLE STOPS (AKA MEMORY STOPS). ALL VALVES (EXCEPT CONTROL VALVES) AND STRAINERS SHALL BE FULL SIZE OF PIPE BEFORE REDUCING SIZE TO MAKE CONNECTIONS TO EQUIPMENT AND CONTROLS.
- UNIONS AND/OR FLANGES SHALL BE INSTALLED AT EACH PIECE OF EQUIPMENT AND IN BY-PASSES TO PERMIT DISASSEMBLY FOR ALTERATION AND REPAIRS. INSTALL ALL PIPING WITHOUT FORCING OR SPRINGING.
- ALL PIPING SHALL BE COORDINATED WITH ALL TRADES INVOLVED. PROPERLY CONSTRUCTED OFFSETS IN PIPING AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST.
- PROVIDE FLEXIBLE CONNECTIONS IN ALL PIPING SYSTEMS CONNECTED TO PUMPS AND OTHER MOTORIZED OR PNEUMATICALLY DRIVEN EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AS CLOSE AS POSSIBLE OR AS INDICATED ON THE DRAWINGS. DRAIN PIPING FROM MECHANICAL EQUIPMENT SHALL BE ROUTED SO AS NOT TO CREATE TRIPPING HAZARDS.
- ADDED TO ALLOW THE UNDERFLOOR PLUMBING PIPING SYSTEMS TO FUNCTION WITH THE PROJECT EXPANSIVE SOILS. COORDINATION WITH ACTUAL FIELD CONDITIONS WILL BE REQUIRED AT TIME OF INSTALLATION TO ACCOUNT FOR ACTUAL SOIL CONDITIONS AT THAT TIME, ACTUAL COMPONENT AND PIPING SYSTEM INSTALLATION DIMENSIONS, ETC. INSTALLING CONTRACTOR TO VERIFY ALL CONDITIONS AND INSTALL/ADJUST INSTALLATION ACCORDINGLY TO SUIT CONDITIONS AT TIME OF INSTALLATION.
- PROVIDE HIGH POINT VENTS AND LOW POINT DRAINS.
- PROVIDE BELLICING CONNECTIONS BETWEEN DISSIMILAR MATERIALS.
- VENT FROM NATURAL GAS EQUIPMENT UNITS TO BUILDING EXTERIOR. PIPE SHALL BE SAME SIZE AS VENT OPENING ON UH6.

COONSUIN PARK MAINTENANCE FACILITY

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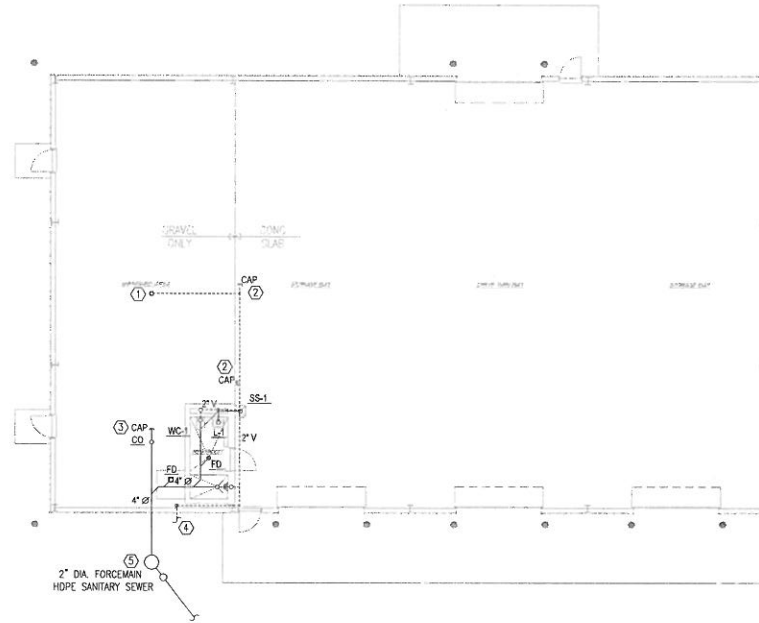
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GENERAL NOTES:

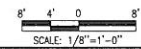
- 1.) SLOPE SANITARY PIPE AT A MINIMUM OF 1/8" PER FT.
- 2.) SEE STRUCTURAL DWG FOR ADDITIONAL FOUNDATION INFORMATION.
- 3.) PLUMBING CONTRACTOR TO VERIFY ALL WORK, CONDITIONS, INVERTS, ETC., IN FIELD.
- 4.) COORDINATE WORK WITH ALL OTHER TRADES.
- 5.) CLOSELY COORDINATE ALL BURIED PLUMBING COMPONENTS IF INTERFERENCES AT FOOTERS, BOLLARDS, ETC., OCCUR. SHIFT PIPING/SPECIALTIES AS REQUIRED FIRST, AND IF REQUIRED, COORDINATE NOTCHING OF FOOTERS, ETC., AS REQUIRED.
- 6.) ALL EXPANSION JOINTS, SLIP JOINTS, AND OTHER POSSIBLE DESIGN/INSTALLATION FEATURES WHICH ARE REQUIRED TO HANDLE SOIL CONDITIONS MAY NOT BE SHOWN. INSTALL ALL REQUIRED FEATURES TO SUIT ACTUAL INSTALLATIONS CONDITIONS.



1 PLUMBING PLAN (PLUMBING/SEWERS)
P-1 SCALE: 1/8" = 1'-0"

SANITARY PLUMBING PLAN CODED NOTES

- ① 3" VENT UP THROUGH ROOF, TERMINATE 18" ABOVE ROOF, FLASH PER METAL BUILDING MANUFACTURERS RECOMMENDATIONS.
- ② CAP 2" VENT FOR FUTURE CONNECTION.
- ③ CAP 4" SANITARY SEWER FOR FUTURE CONNECTION.
- ④ 1 1/2" PVC VENT, CONNECT TO SEWAGE PUMP WELL. (SEE SITE UTILITY PLAN)
- ⑤ SEWAGE PUMP WELL (SEE SITE UTILITY PLAN).



COONSKIN PARK MAINTENANCE FACILITY

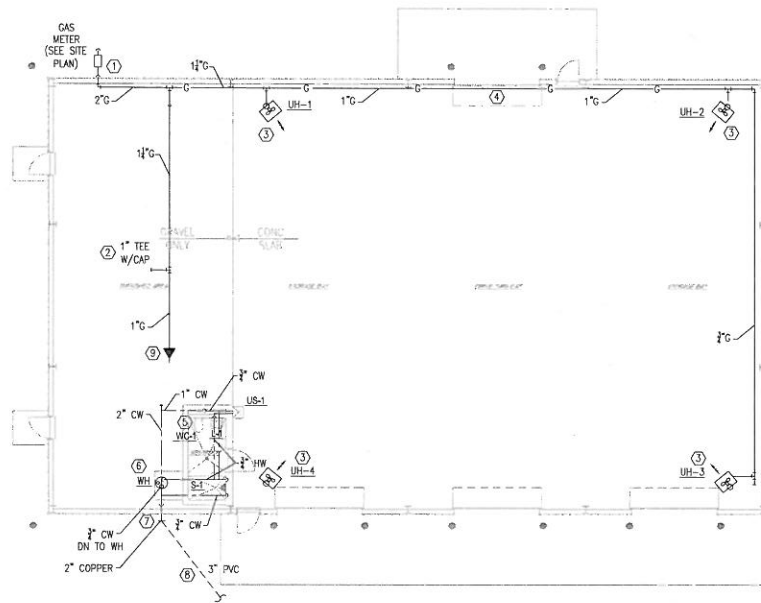
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Approved by: RLB	Drawn by: RLB	Rev. date: 12/10/13	Rev. date: 12/10/13

COONSKIN PARK MAINTENANCE FACILITY

PLUMBING PLAN
Sheet reference number: **P-1**





2 PLUMBING PIPING PLAN
 P-2 SCALE: 1/8" = 1'-0"

PLUMBING PIPING PLAN CODED NOTES

- ① RUN GAS PIPING DOWN ALONG INTERIOR WALL. PROVIDE WALL PENETRATION, EXCLUSION AND CONNECTION TO UTILITY PROVIDED METER.
- ② CAP 1" GAS LINE FOR FUTURE CONNECTION.
- ③ CONNECT GAS UH PER DETAIL 5/PS.
- ④ COORDINATE HORIZONTAL PIPE RUN WITH ROLL UP GARAGE DOOR. NO OFFSETS IN LINE.
- ⑤ CONNECT COLD WATER TO WC-1.
- ⑥ MOUNT HOT WATER TANK ON PAD EXACT LOCATION WITH FLOOR DRAIN AND WATER SERVICE CLEARANCE.
- ⑦ PROVIDE WATER SERVICE ENTRANCE AND SHUT OFF VALVES AS REQUIRED.
- ⑧ 3" UNDERGROUND WATER SERVICE. (SEE SITE UTILITY PLANS). TRANSITION TO 2" BY BUILDING.
- ⑨ CONNECT 3/4" GAS TO WATER HEATER (WH) AND 3/4" GAS TO UNIT HEATER (UH-4).

GENERAL NOTES:

- 1.) SHUT-OFF VALVE SHALL BE INSTALLED ON COLD AND HOT WATER SUPPLY TO EACH PLUMBING FIXTURE.
- 2.) CONNECTION TO EACH GAS FIRED EQUIPMENT REQUIRES SHUT-OFF VALVE, UNION AND DIRT LEG.
- 3.) ALL DOMESTIC PIPING INSIDE BUILDING AND 5'-0" OUTSIDE OF BUILDING IS TO BE COPPER PER PLUMBING SPECS.
- 4.) SEE DRAWING P-3 FOR PLUMBING & PIPING DETAILS.

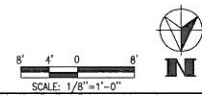
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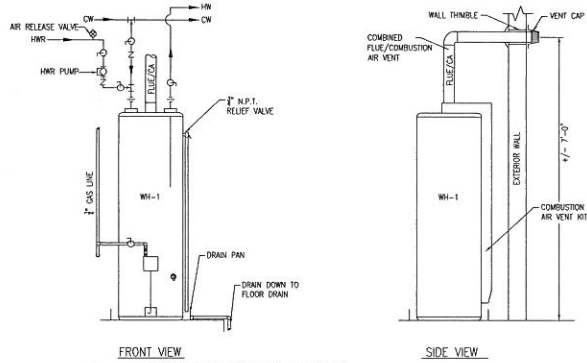
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Client:		Checked by:	
Revised by:		Issue Date:	12/10/13
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PLUMBING PIPING PLAN
 Sheet reference number: P-2



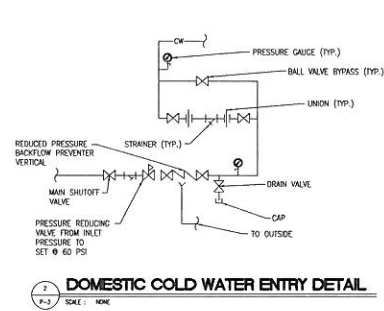
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FRONT VIEW
GAS WATER HEATER WH-1

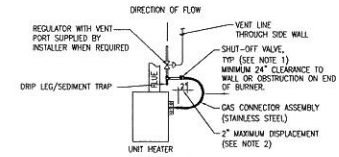
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P-3 SCALE: NONE

SIDE VIEW



DOMESTIC COLD WATER ENTRY DETAIL

1
P-3 SCALE: NONE



- NOTES:
1. SHUT-OFF VALVE MUST BE PARALLEL TO ONE HALF INCH BURNER INLET PIPE.
 2. THE 2" DISPLACEMENT AS SHOWN IS FOR THE COLD CONDITION. THIS DISPLACEMENT WILL BE REDUCED AS THE SYSTEM IS FIRED.
 3. ALLOW SUFFICIENT CLEARANCES FOR BURNER REMOVAL SERVICE.
 4. ALL GAS PIPING AND FINAL CONNECTIONS SHOWN IS BY PLUMBING CONTRACTOR.

UNIT HEATER GAS PIPING DETAIL

2
P-3 SCALE: NONE

PLUMBING FIXTURES & FAUCETS SCHEDULE

2009 INTERNATIONAL PLUMBING CODE

ITEM	FIXTURE	MANUFACTURER / MODEL NO.	DESCRIPTION	SAN	VENT	CW	HW	DFU	SFU		TOTAL SFU	NOTES
									HW	CW		
WC-1	WATER CLOSET	CRANE 38355	ELONGATED FRONT, RELAXED HEIGHT, FLOOR MOUNT, DUAL FLUSH	4"	2"	1/2"	-	1.1 / 1.6 GPF	-	1.6	1.6	WITH TANK
L-1	LAVATORY	CRANE 11560	WALL MOUNTED, WIRELESS CHINA, WHEELCHAIR LAVATORY	1 1/2"	1 1/2"	1/2"	1/2"	0.5 GPM	0.5	0.5	0.7	
US-1	UTILITY SINK	E. L. MUSELLE 14 97L4508	FLOOR MOUNTED, 20 GAL., ONE PIECE MOLDED RESIN	3"	2"	1/2"	1/2"	-	2.25	2.25	3.0	
S-1	SHOWER	STERLING 62016100	38" SHOWER BASE & WALL SURROUND	3"	1 1/2"	1/2"	1/2"	2"	3.0	3.0	4.0	WHITE
HB	HOSE BIBB	-	SEE SPECS	-	-	1/2"	-	-	-	-	-	
FD	FLOOR DRAIN	-	SEE SPECS	3"	-	-	-	-	-	-	-	WITH TRAP PRIMER
WHYD-1	WALL HYDRANT	-	SEE SPECS	-	-	3/4"	-	-	-	-	-	
F-1	LAV. FAUCETS	DELTA 27C4845	4" DECK FAUCET TWO HANDLE MOUNT	-	-	1/2"	1/2"	-	-	-	-	① ②
F-2	UTILITY SINK	DELTA 27C4845	TWO HANDLE	-	-	1/2"	1/2"	-	-	-	-	
F-3	SHOWER	DELTA 174238	ONE HANDLE	-	-	1/2"	1/2"	-	-	-	-	

CODED NOTE:

- ① PROVIDE FLOW CONTROL NON AERATING SPRAY OUTLET
- ② ADA- MIST BLADE HANDLE

GAS WATER HEATER SCHEDULE

TAG	LOCATION	MANUFACTURER	MODEL NUMBER	TYPE	STORAGE GALLONS	INPUT MBH	RECOVERY RATE GAL/HR	PHYSICAL SIZE HT. x DIA.	FLUE SIZE	NOTES
WH-1	MECHANICAL ROOM 112	BRADFORD WHITE WATER HEATING	DS1-40567BN	DIRECT VENT / TANK	40	38	41	49-3/4"x20"	4"	① ② ③

KEYNOTES:

- ① PROVIDE COMBINATION FLUE / COMBUSTION VENT KIT PER MANUFACTURERS RECOMMENDATIONS.
- ② PROVIDE 3/4" HP HOT WATER CIRCULATION PUMP, GRUNDOS MODEL UP15-1887 OR EQUAL.
- ③ PROVIDE TEMPERATURE AQUASTAT CONTROL OF PUMP.

COONSKIN PARK MAINTENANCE FACILITY

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DATE: 12/10/13

REV	DESCRIPTION	DATE	BY

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DATE: 12/10/13

COONSKIN PARK MAINTENANCE FACILITY

PLUMBING DETAILS / SCHEDULES

Sheet reference number: P-3

000042

HVAC ABBREVIATIONS AND SYMBOL LEGEND

SYMBOL	ABBREV	DESCRIPTION	SYMBOL	ABBREV	DESCRIPTION	SYMBOL	ABBREV	DESCRIPTION	SYMBOL	ABBREV	DESCRIPTION	SYMBOL	ABBREV	DESCRIPTION
	ACCU	AIR COOLED CONDENSING UNIT		CIE	CONNECT TO EXISTING		FDI	FIRE DAMPER		LFS	POUNDS		RL	REFRIGERANT LIQUID
	AD	ACCESS DOOR		CWP	CHILLED WATER PUMP		FDB	DEGREES FAHRENHEIT DRY BULB		LD	LINEAR DIFFUSER		RS	REFRIGERANT SUCION
	AFT	ABOVE FINISHED FLOOR		CW	COLD WATER		FTH FLR	FINISHED FLOOR		LPC	LOW PRESSURE CONDENSATE		RHG	REFRIGERANT HOT GAS
	AHU	AIR HANDLING UNIT		DB	DRY BULB		FLEX	FLEXIBLE FLOOR		LPS	LOW PRESSURE STEAM		RM	ROOM
	AFS	AIRFLOW STATION		DDC	DIRECT DIGITAL CONTROL		FLD	FLEXIBLE CONNECTION		LWT	LEAVING WATER TEMPERATURE		RPM	REVOLUTIONS PER MINUTE
	APD	AIR PRESSURE DROP		DDCCP	DIRECT DIGITAL CONTROL PANEL		FLDX	FLEXIBLE DUCT		MAX	MAXIMUM		RTU	ROOFTOP UNIT
	APPROX	APPROXIMATE		DEG	DEGREES		FMD	FLOW METER (ORIFICE)		RISE	RISE IN DUCTWORK		RX	REMOVE EXISTING TO
	ARCH	ARCHITECT		DIA	DIAMETER		FMV	FLOW METER (VENTURI)		SA	SUPPLY AIR		SAR	SUPPLY AIR REGISTER
	ATC	AUTOMATIC TEMPERATURE CONTROL		DISC	DISCONNECT		FSN	FLOW SWITCH		MECH	MECHANICAL EQUIPMENT ROOM		SMOKE DAMPER	SMOKE DAMPER
	AS	AIR SEPARATOR		DOOR LAMEN	DOOR UNDERCUT		FPM	FEET PER MINUTE		MFR	MANUFACTURER		SP	STATIC PRESSURE (HOLES OF WATER)
	ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS		DN	DOWN		FPN	FAN-POWERED VAV BOX		MISC	MISCELLANEOUS		SPEC	SPECIFICATIONS
	AV	AIR VENT (AUTOMATIC)		DSD	DRAFT SMOKE DETECTOR		FT	FOOT OR FEET		MOD	MOTOR OPERATED DAMPER		SPUTTER DAMPER	SPUTTER DAMPER
	MV	AIR VENT (MANUAL)		DWC	DRAINING		FT	FINNED TUBE RADIATION		MU	MOTOR OPERATED DAMPER		SO	SQUARE
	ANGLE VALVE	ANGLE VALVE		DWD	DRAINING		FWB	FAN-POWERED WET BULB		MUA	MAKE-UP WATER		STAIR TRAP	STAIR TRAP
	BALL VALVE	BALL VALVE		DWD	DRAINING		GA	GALVE		N/C	NORMALLY CLOSED		STRUC	STRUCTURAL
	B	BOLTER		DWD	DRAINING		CC	GENERAL CONTRACTOR		NO	NUMBER		SV	SOLENOID VALVE
	BCD	BACK-DRAFT DAMPER		DWD	DRAINING		CV	CONTROL VALVE		N/O	NORMALLY OPEN		SW	SWITCH
	BSV	BUTTERFLY VALVE		DWD	DRAINING		GHR	GLYCOL HEATING RETURN		NTS	NOT TO SCALE		SAD	SUPPLY AIR DIFFUSER
	BHP	BRAKE HORSEPOWER		DWD	DRAINING		GHS	GLYCOL HEATING SUPPLY		OA	OUTSIDE AIR		TA	TRANSFER AIR
	BLDG	BUILDING		DWD	DRAINING		GPM	GALLONS PER MINUTE		OD	OUTSIDE DIAMETER		TEE	TEE UP (PIPE OR SINGLE LINE ROUND DUCT)
	BLOT	BLOT		DWD	DRAINING		H	HIGH		P	PUMP		TEE	TEE DOWN (PIPE OR SINGLE LINE ROUND DUCT)
	BTU	BRITISH THERMAL UNIT		DWD	DRAINING		HE	HEAT EXCHANGER		PC	PLUMBING CONTRACTOR		TEMP	TEMPERATURE
	BTUH	BRITISH THERMAL UNIT PER HOUR		EA	EXHAUST AIR		HCR	DUAL TEMPERATURE RETURN		PD	PRESSURE DROP		THERM	TEMPERATURE
	CONTROL VALVE, 3 WAY	CONTROL VALVE, 3 WAY		EAT	ENTERING AIR TEMPERATURE		HCS	DUAL TEMPERATURE SUPPLY		PFCV	PRESS COMPENSATING FLOW CONTROL VALVE (CFM)		THERM	TEMPERATURE
	CONTROL VALVE, 2 WAY	CONTROL VALVE, 2 WAY		EC	ELECTRICAL CONTRACTOR		HCS	DUAL TEMPERATURE SUPPLY		PH	PHASE		T'STAT	THERMOSTAT (MAY HAVE ARROW POINTING TO CONTROLLED DEVICE)
	PIPE CAP, OR SINGLE LINE DUCT CAP	PIPE CAP, OR SINGLE LINE DUCT CAP		EF	EXHAUST FAN		HCS	DUAL TEMPERATURE SUPPLY		PIP ANCHOR	PIPE ANCHOR		TURNING VANES	TURNING VANES
	CAI	COMBUSTION AIR INTAKE		ECU	ELECTRIC CUPBOARD HEATER		HCS	DUAL TEMPERATURE SUPPLY		PITCH DOWN	PITCH DOWN		TYP	TYPICAL
	CHECK VALVE (DRINK GATE)	CHECK VALVE (DRINK GATE)		ECU	ELECTRIC CUPBOARD HEATER		HPC	HIGH PRESSURE CONDENSATE		PLUG VALVE	PLUG VALVE		UH	UNIT HEATER (GAS OR ELECTRIC)
	CHECK VALVE (SPRING)	CHECK VALVE (SPRING)		ERV/ERU	ENERGY RECOVERY VENTILATOR/ENERGY RECOVERY UNIT		HPS	HIGH PRESSURE STEAM		PRESS	PRESSURE		UV	UNIT VENTILATOR
	CD	CONDENSATE DRAIN		ELEC	ELECTRIC (AL)		HPS	HIGH PRESSURE STEAM		PRESSURE GAGE W/FEET COCK	PRESSURE GAGE W/FEET COCK		VAV	VARIABLE AIR VOLUME BOX
	CFM	CUBIC FEET/MINUTE		ELEC	ELECTRIC (AL)		HPS	HIGH PRESSURE STEAM		PRESSURE RELIEF VALVE	PRESSURE RELIEF VALVE		VO	VOLUME DAMPER
	CFSD	COMBINATION FIRE/SMOKE DAMPER		ERV/ERU	ENERGY RECOVERY VENTILATOR/ENERGY RECOVERY UNIT		HRV/HRU	HEAT RECOVERY VENTILATOR/HEAT RECOVERY UNIT		PSI	POUNDS PER SQUARE INCH		VEL	VELOCITY
	CWR	CHILLED WATER RETURN		ELEC	ELECTRIC (AL)		HTR	HEATING		PSIG	PSI (GAUGE)		VENT	VENTILATION OR VENTILATOR
	CWS	CHILLED WATER SUPPLY		ERV/ERU	ENERGY RECOVERY VENTILATOR/ENERGY RECOVERY UNIT		HTR	HEATING		PTAC	PACKAGED TERMINAL AIR CONDITIONER		VERT	VERTICAL
	CLG	CEILING		ERV/ERU	ENERGY RECOVERY VENTILATOR/ENERGY RECOVERY UNIT		HTWR	HIGH TEMP. WATER RETURN		RA	RETURN AIR		VFD	VARIABLE FREQUENCY DRIVE
	CO2	CARBON DIOXIDE SENSOR		ERV/ERU	ENERGY RECOVERY VENTILATOR/ENERGY RECOVERY UNIT		HTWS	HIGH TEMP. WATER SUPPLY		RAD	RADIATOR		VOL	VOLUME
	CONC	CONCRETE		ERV/ERU	ENERGY RECOVERY VENTILATOR/ENERGY RECOVERY UNIT		HVAC	HEATING VENTILATION/ AIR CONDITIONING		RAR	RETURN AIR REGISTER		W	WIDE
	CONN	CONNECTION		ERV/ERU	ENERGY RECOVERY VENTILATOR/ENERGY RECOVERY UNIT		HWP	HOT WATER PUMP		RELF	RELIEF		WB	WET BULB
	CIRCUIT SETTER BALANCE VALVE	CIRCUIT SETTER BALANCE VALVE		ERV/ERU	ENERGY RECOVERY VENTILATOR/ENERGY RECOVERY UNIT		HWR	HOT WATER RETURN		REQURED	REQUIRED		WC	WATER GAUGE
	CONT	CONTINUATION		ERV/ERU	ENERGY RECOVERY VENTILATOR/ENERGY RECOVERY UNIT		HWS	HOT WATER SUPPLY		REDUCER	REDUCER		W/D	WITHOUT
	CONTR	CONTRACTOR		ERV/ERU	ENERGY RECOVERY VENTILATOR/ENERGY RECOVERY UNIT		ID	INSIDE DIAMETER		RH	RELATIVE HUMIDITY		TC	TEMPERATURE CONTROL
	CONY	CONNECTOR		ERV/ERU	ENERGY RECOVERY VENTILATOR/ENERGY RECOVERY UNIT		IFT	INTEGRAL FACE-AND-BYPASS		RHC	REFRESH COOL			
	CORR	CORROSION		ERV/ERU	ENERGY RECOVERY VENTILATOR/ENERGY RECOVERY UNIT		IN	INCH, INCHES						
	CU FT	CUBIC FEET		ERV/ERU	ENERGY RECOVERY VENTILATOR/ENERGY RECOVERY UNIT		INSUL	INSULATED, INSULATION						
	CUH	CABINET UNIT HEATER		ERV/ERU	ENERGY RECOVERY VENTILATOR/ENERGY RECOVERY UNIT		ISP	INTERNAL STATIC PRESSURE						
	CR	CONDENSER WATER RETURN		ERV/ERU	ENERGY RECOVERY VENTILATOR/ENERGY RECOVERY UNIT		KWH	KILOWATTS						
	C	CONDENSER WATER SUPPLY		ERV/ERU	ENERGY RECOVERY VENTILATOR/ENERGY RECOVERY UNIT		L	LONG						
	C	CONDENSER WATER SUPPLY		ERV/ERU	ENERGY RECOVERY VENTILATOR/ENERGY RECOVERY UNIT		LAT	LEAVING AIR TEMPERATURE						

GENERAL HVAC NOTES:

- PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED, TO INSTALL COMPLETE AND OPERABLE MECHANICAL SYSTEMS AS INDICATED ON THE DRAWINGS, AS SPECIFIED, AND AS REQUIRED BY CODE.
- CONTRACT DOCUMENT DRAWINGS FOR MECHANICAL WORK (HVAC, PLUMBING, FIRE PROTECTION) ARE DIAGNOSTIC AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY.
- INSTALL ALL MECHANICAL EQUIPMENT AND APPURTENANCES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS, CONTRACT DOCUMENTS AND APPLICABLE CODES AND REGULATIONS.
- COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC. AS SHOWN ON/IN OTHER CONTRACT DOCUMENTS.
- MAINTAIN A MINIMUM OF 6"-8" CLEARANCE TO UNDERSIDE OF PIPES, DUCTS, CONDUITS, SUSPENDED EQUIPMENT, ETC., THROUGHOUT ACCESS ROUTES IN MECHANICAL ROOMS.
- ALL TESTS SHALL BE COMPLETED BEFORE ANY MECHANICAL EQUIPMENT OR PIPING INSULATION IS APPLIED.
- WHERE TWO OR MORE PRODUCTS OF THE SAME TYPE OF EQUIPMENT ARE REQUIRED, THE PRODUCTS OF A SINGLE MANUFACTURER SHALL BE USED.
- COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL PIPING DIMENSIONS BEFORE FABRICATION.
- THE LOCATIONS OF ALL ITEMS SHOWN ON THE DRAWINGS OR CALLED FOR IN THE SPECIFICATIONS THAT ARE NOT DEFINITELY FIXED BY DRAWING DIMENSIONS ARE APPROXIMATE ONLY. THE EXACT LOCATION NECESSARY TO ACHIEVE THE BEST CONDITIONS AND RESULTS MUST BE DETERMINED BY THE PROJECT SITE CONDITIONS AND SHALL HAVE THE APPROVAL OF THE CONTRACTING OFFICER BEFORE BEING FIELD INSTALLED. DO NOT SCALE DRAWINGS.
- PROVIDE ACCESS PANELS FOR INSTALLATION IN WALLS AND CEILINGS, WHERE REQUIRED, TO SERVICE DAMPERS, VALVES, SMOKE DETECTORS AND OTHER CONCEALED MECHANICAL EQUIPMENT, DEVICES, VALVES, ETC. ACCESS PANELS SHALL BE TURNED OVER TO THE GENERAL CONTRACTOR FOR INSTALLATION.
- LOCATIONS AND SIZES OF ALL FLOOR, WALL AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.
- ALL OPENINGS IN FIRE RESISTANCE RATED WALLS DUE TO DUCTWORK, PIPING, CONDUIT, ETC., SHALL BE FIRE STOPPED IN ACCORDANCE WITH THE REQUIREMENTS OF ASTM E 814 & UL 1479. SIMILARLY, SEAL/FIRESTOP AS REQUIRED AT SMOKE RATED SURFACES AS WELL.
- CERTAIN ITEMS SUCH AS REES AND DROPS IN PIPING, ACCESS DOORS, VOLUME DAMPERS, ETC., ARE INDICATED ON THE CONTRACT DOCUMENT DRAWINGS FOR CLARITY FOR A SPECIFIC LOCATION REQUIREMENT AND SHALL NOT BE INTERPRETED AS THE EXTENT OF THE REQUIREMENTS FOR THESE TYPES OF ITEMS.
- UNLESS OTHERWISE SHOWN, LOCATE ALL ROOM THERMOSTATS 5'-0" (CENTER LINE) ABOVE FINISHED FLOOR.
- LOCATE ALL MECHANICAL EQUIPMENT FOR UNOBSTRUCTED ACCESS TO UNIT ACCESS PANELS, CONTROLS, VALVING, ETC.
- PROVIDE FLEXIBLE CONNECTIONS IN ALL DUCTWORK SYSTEMS (SUPPLY, RETURN AND EXHAUST) CONNECTED TO AIR HANDLING UNITS AND OTHER EQUIPMENT WHICH REQUIRES VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AT THE POINT OF CONNECTION TO THE EQUIPMENT UNLESS OTHERWISE INDICATED.
- EXTERIOR LOUVERS IN THE FACADE OF THE BUILDING SHALL BE COORDINATED BETWEEN THE GENERAL CONTRACTOR AND THE STRUCTURAL AND MECHANICAL CONTRACTORS.
- ALL PIPING AND DUCTWORK SHALL BE COORDINATED WITH ALL TRADES INVOLVED. PROPERLY CONSTRUCTED OFFSETS IN PIPING AND DUCTWORK AROUND OBSTRUCTIONS SHALL BE PROVIDED AT NO ADDITIONAL COST.
- PROVIDE FLEXIBLE CONNECTIONS IN ALL PIPING SYSTEMS CONNECTED TO PUMPS AND OTHER MOTORIZED DRIVEN EQUIPMENT WHICH REQUIRE VIBRATION ISOLATION. FLEXIBLE CONNECTIONS SHALL BE PROVIDED AS CLOSE AS POSSIBLE OR AS INDICATED ON THE DRAWINGS.

COONSKIN PARK MAINTENANCE FACILITY

REVISIONS

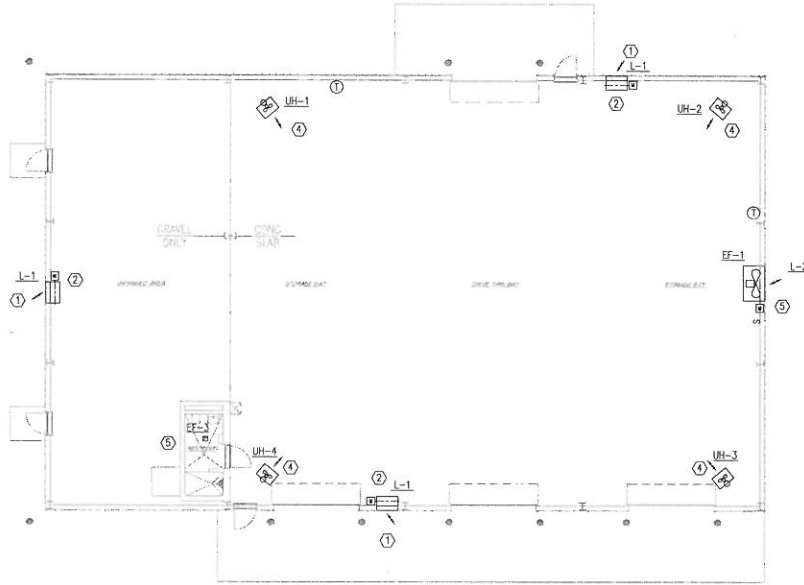
NO.	DATE	DESCRIPTION	BY	CHKD.

Date: 12/10/13 Rev: 1
 Project No: 151625
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ABBREVIATIONS, SYMBOLS LEGEND, AND GENERAL NOTES

Sheet reference number: **M-0**

000043



1 MECHANICAL PLAN HVAC
 M-1 SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. VERIFY THE EXACT LOCATION OF T-STATS WITH OWNER BEFORE INSTALLATION.
2. COORDINATE ALL MECHANICAL WORK LOCATIONS WITH LIGHTING AND OTHER ELECTRICAL, PLUMBING AND ARCHITECTURAL COMPONENTS.
3. PROVIDE TRANSITIONS AT AIR DEVICES/RUNOUTS AS REQUIRED.
4. SEE M-2 FOR DETAILS.

CODED NOTES:

- ① MOUNT BOTTOM OF LOUVER AT +/- 13'-0" AFF. COORDINATE LOCATION WITH BUILDING STRUCTURE ELEMENTS. FINISH OPENING PER METAL BUILDING MANUFACTURERS RECOMMENDATIONS.
- ② NORMALLY CLOSED MOD WILL OPEN WHEN EF-1 IS ENERGIZED.
- ③ MOUNT EXHAUST FAN BOTTOM AT +/- 15'-0" COORDINATE EXACT LOCATION WITH BUILDING STRUCTURE. FINISH OPENING PER METAL BUILDING MANUFACTURERS RECOMMENDATIONS.
- ④ PROVIDE 4" FLUE UP THRU ROOF. TERMINATE ABOVE ROOF WITH VENT CAP AND FLASH PER MANUFACTURERS RECOMMENDATIONS.
- ⑤ PROVIDE HEAT/LIGHT/FAN, RUN 3" EXHAUST PIPE OUT BUILDING SIDE WALL. TERMINATE WITH VENT CAP.

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 12/10/13

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 DATE: _____

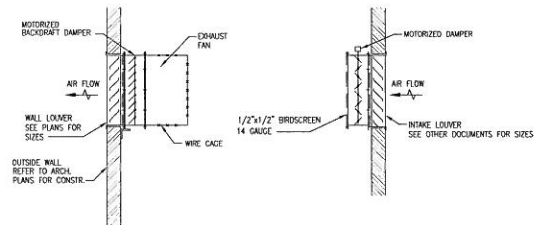
COONSKIN PARK MAINTENANCE FACILITY

MECHANICAL PLAN HVAC

Sheet reference number: M-1



000044



1 ROOM VENTILATION DETAIL
SCALE: NONE

UNIT HEATER SCHEDULE (GAS)													
TAG	SERVES	TYPE	MANUFACTURER	MODEL	INPUT (KBH)	OUTPUT (KBH)	% EFF	AIR TEMP RISE °F	FAN CFM	MOTOR	VOLTS/PHASE/HERTZ	FLA	REMARKS
UH-1	WAREHOUSE	HIGH EFFICIENCY	STERLING	QVF	100	80	80	50	1480	1/30	120/1/60	2.6	(1)
UH-2	WAREHOUSE	HIGH EFFICIENCY	STERLING	QVF	100	80	80	50	1480	1/30	120/1/60	2.6	(1)
UH-3	WAREHOUSE	HIGH EFFICIENCY	STERLING	QVF	100	80	80	50	1480	1/30	120/1/60	2.6	(1)
UH-4	WAREHOUSE	HIGH EFFICIENCY	STERLING	QVF	100	80	80	50	1480	1/30	120/1/60	2.6	(1)

NOTES:
 (1) PROVIDE/INSTALL WITH VIBRATION ISOLATORS

LOUVER SCHEDULE										
TAG	SERVES	MANUFACTURER	MODEL	SIZE	DEPTH	CFM	APPROXIMATE % FREE AREA (SF)	MAX W (IN W.C.)	NOTES	
L-1	WAREHOUSE	GREENHECK	ESP-403	36/24	4"	1200	2.78	0.03	(1)	(2)
L-2	EF-1	GREENHECK	ESP-403	48/48	4"	3600	6.72	0.19	(1)	(2)

NOTES:
 (1) DRAINABLE BLADES
 (2) COLOR BY ARCHITECT

FAN SCHEDULE												
TAG	SERVES	TYPE	MANUFACTURER	MODEL	DRIVE TYPE	CFM MAX/MIN	S.P. IN W.C.	POWER	SONE	VOLTS/PHASE/HERTZ	FAN WT. (LBS.)	NOTES
EF-1	WAREHOUSE GENERAL EXHAUST	WALL FAN	COOK	24XMM	BELT	3600/1800	0.25	1/2 HP	25	208/1/60	100	(1) (2) (3) (4)
EF-2	REST ROOM	CABINET/HEAT/LIGHT/FAN	BROAN	100HFL	DIRECT	100/100	0.1	14 AMP	2.0	120/1/60	9	(3)

KEYNOTES:
 (1) PROVIDED WITH FAN TWO SPEED MOTOR
 (2) PROVIDE WIRE SAFETY CAGE
 (3) ALL WIRING BY E.C.
 (4) SPARK RESISTANT AIRWAY

GENERAL NOTES:
 1. SOUND POWER LEVELS PRESENTED AT HIGH SPEED

COONSKIN PARK MAINTENANCE FACILITY

DATE: 12/10/13
 PROJECT NO.: 135625
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 SHEET NO.: 000045
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COONSKIN PARK MAINTENANCE FACILITY

MECHANICAL DETAILS

Sheet reference number: M-2

000045

ELECTRICAL SYMBOLS

POWER SYMBOLS

- HOME RUN TO PANELBOARD LETTERS AND NUMBERS DESIGNATE PANEL AND CIRCUITS. CIRCUITS SHALL INCLUDE ALL CONDUCTORS (PHASE, NEUTRAL & GROUND).
- CONDUIT RUN EXPOSED.
- CONDUIT RUN CONCEALED IN OR UNDER FLOOR SLAB.
- CONDUIT RUN UNDERGROUND.
- DENOTES ELECTRICAL.
- DENOTES TELECOMMUNICATIONS.
- CONDUIT TURNS UP.
- CONDUIT TURNS DOWN.
- GROUND ROD.
- EPOXY/WAX WELD.
- BARE COPPER GROUNDING CONDUCTOR.
- LIGHTNING PROTECTION DOWN CONDUCTOR.
- GROUND ROD TRIP. RODS SHALL BE SPACED A MINIMUM OF 10 FT. IN APART.
- SINGLE POLE FUSE SWITCH, 20 AMPERE, 120/277V, MOUNTED 44 IN. ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED. "C" REPRESENTS SUBSCRIPT.
- 3 DENOTES THREE WAY FUSE SWITCH.
4 DENOTES FOUR WAY FUSE SWITCH.
TS DENOTES TIME SWITCH.
D DENOTES LOCAL WALL DIMMER. EXP. DENOTES EXPLOSION PROOF.
IC DENOTES ISOLATED GROUNDING.
SP DENOTES SURGE SUPPRESSION.
- GROUND FAULT CIRCUIT INTERRUPTER DUPLEX RECEPTACLE, 20 AMPERE, 125 VOLT, 2 POLE, 3 WIRE NEMA 5-20R, MOUNTED 15 IN. ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
- DUPLEX RECEPTACLE, 20 AMPERE, 125 VOLT, 2 POLE, 3 WIRE NEMA 5-20R, MOUNTED 15 IN. ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
- SINGLE RECEPTACLE, 20 AMPERE, 125 VOLT, 2 POLE, 3 WIRE NEMA 5-20R, COORDINATE MOUNTING HEIGHT WITH EQUIPMENT INSTALLER.
IC DENOTES ISOLATED GROUNDING.
SP DENOTES SURGE SUPPRESSION.
EMC DENOTES ELECTRIC WATER COOLER.
- SPECIAL PURPOSE RECEPTACLE, SIZE AND TYPE AS SHOWN ON THE DRAWING, MOUNTED 15 IN. ABOVE FINISHED FLOOR, UNLESS OTHERWISE NOTED.
- QUAD RECEPTACLE, 20 AMPERE, 125 VOLT, 2 POLE, 3 WIRE NEMA 5-20R, MOUNTED 15 IN. ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED.
- DUPLEX RECEPTACLE, 20 AMPERE, 125 VOLT, 2 POLE, 3 WIRE NEMA 5-20R, MOUNTED FLUSH WITH CEILING.
- DUPLEX RECEPTACLE, 20 AMPERE, 125 VOLT, 2 POLE, 3 WIRE NEMA 5-20R, FLUSH FLOOR MOUNTED, UNLESS OTHERWISE NOTED.
- QUAD RECEPTACLE, 20 AMPERE, 125 VOLT, 2 POLE, 3 WIRE NEMA 5-20R, FLUSH FLOOR MOUNTED, UNLESS OTHERWISE NOTED.
- CORD REEL.
- JUNCTION BOX ABOVE CEILING, SIZE PER NEC UNLESS OTHERWISE NOTED.
- JUNCTION BOX, WALL MOUNTED.
- EQUIPMENT CONNECTION POINT.
- TRANSFORMER. PROVIDE FLOTTANFORMER MOUNTED WITH 4" CONCRETE EQUIPMENT PADS AND 45 DEG CHAMFERED EDGES.
- PULLBOX SIZE PER NEC UNLESS OTHERWISE NOTED.
- MULTI-SERVICE FLOOR BOX (FIRST FLOOR) OR FIRE RATED PINE THROUGH (SECOND FLOOR).
- PANEL BOARD ON EMERGENCY SYSTEM, MOUNTED 78 IN. ABOVE FINISHED FLOOR TO TOP OF CABINET UNLESS OTHERWISE NOTED. SEE "PANELBOARD SCHEDULE" FOR NUMBER AND SIZE OF OVER CURRENT DEVICES.
- PANELBOARD, MOUNTED 78 IN. ABOVE FINISHED FLOOR TO TOP OF CABINET UNLESS OTHERWISE NOTED. SEE "PANELBOARD SCHEDULE" FOR NUMBER AND SIZE OF OVERCURRENT DEVICES.
- VARIABLE FREQUENCY DRIVE FOR MOTOR, MOUNTED 54 IN. ABOVE FINISHED FLOOR. (MC) INDICATES FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- MOTOR, NUMBER INDICATES HP RATING.
- SINGLE POLE MANUAL MOTOR STARTER, WITH THERMAL OVERLOAD PROTECTION, CIRCUIT NUMBER AS SHOWN ON THE DRAWINGS, INDIVIDUALLY MOUNTED 54 IN. ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. (MC) INDICATES FURNISHED BY MECH. CONTRACTOR & INSTALLED BY ELEC. CONTRACTOR. WIRE SHOWN WITHOUT (MC) INDICATES FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. (NOTATION TYPICAL).
- NON-FUSIBLE DISCONNECT SWITCH, SIZE AS SHOWN ON THE DRAWINGS, INDIVIDUALLY MOUNTED 54 IN. ABOVE FINISHED FLOOR. "100/3" DENOTES 100 AMPERE, 3 POLE. "3R" DENOTES NEMA 3R ENCLOSURE. (MC) INDICATES FURNISHED BY MECHANICAL CONTRACTOR & INSTALLED BY ELECTRICAL CONTRACTOR. WIRE SHOWN WITHOUT (MC) INDICATES FURNISHED AND INSTALLED BY THE ELECTRICAL CONTRACTOR. (NOTATION TYPICAL).
- FUSIBLE DISCONNECT SWITCH, SIZE AS SHOWN ON THE DRAWINGS, INDIVIDUALLY MOUNTED 54 IN. ABOVE FINISHED FLOOR. "200/3/150" DENOTES 200 AMPERE, 3 POLE, WITH 150 AMPERE FUSES. "3R" DENOTES NEMA 3R ENCLOSURE. (NOTATION TYPICAL).
- THERMAL MAGNETIC CIRCUIT BREAKER, SIZE AND NUMBER AS SHOWN ON THE DRAWINGS, INDIVIDUALLY MOUNTED 54 IN. ABOVE FINISHED FLOOR. "100/3" DENOTES 100 AMPERE, 3 POLE (NOTATION TYPICAL).
- MAGNETIC MOTOR STARTER, CIRCUIT NUMBER AS SHOWN ON THE DRAWINGS, INDIVIDUALLY MOUNTED 54 IN. ABOVE FINISHED FLOOR, FURNISHED BY OTHERS AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- FUSIBLE DISCONNECT SWITCH, TYPE COMBINATION MAGNETIC MOTOR STARTER, CIRCUIT NUMBER AS SHOWN ON THE DRAWINGS, INDIVIDUALLY MOUNTED 54 IN. ABOVE FINISHED FLOOR, FURNISHED BY OTHERS AND INSTALLED BY ELECTRICAL CONTRACTOR.

- MOTOR CIRCUIT PROTECTOR TYPE COMBINATION MAGNETIC MOTOR STARTER, CIRCUIT NUMBERS AS SHOWN ON THE DRAWINGS, INDIVIDUALLY MOUNTED 54 IN. ABOVE FINISHED FLOOR, FURNISHED BY OTHERS AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
- LIGHTING CONTRACTOR, MOUNTED 78 IN. ABOVE FINISHED FLOOR TO TOP, UNLESS OTHERWISE NOTED.
- TELE-POWER POLE, DUPLEX RECEPTABLES.
- SURFACE METAL RACK, COORDINATE SIZE WITH SPECIFICATION, MOUNTED ABOVE COUNTER TOP, UNLESS OTHERWISE NOTED.
- EQUIPMENT NUMBER 1 - SEE EQUIPMENT SCHEDULE IN DIVISION 11 OF SPECIFICATION FOR ELECTRICAL CHARACTERISTICS.
- KEYWORD NUMBER REFERENCE, DENOTES "SEE NOTE 2 THIS DRAWING".
- SYMBOL INDICATES WIRE AND CONDUIT AS PER STANDARD WIRING SCHEDULE.

- ### TELECOMMUNICATIONS SYMBOLS
- TELECOMMUNICATIONS OUTLET, 8 PIN, RJ45 TYPE, VOICE. (M) INDICATES WALL MOUNTED.
 - DUPLEX TELECOMMUNICATIONS OUTLET, 8 PIN, RJ45 TYPE, ONE (1) VOICE AND ONE (1) DATA.
 - TELECOMMUNICATIONS OUTLET, 8 PIN, RJ45 TYPE, ONE (1) VOICE AND TWO (2) DATA [ONE (1) IS/ASG AND ONE (1) C/POG] + INDICATES AFT HEIGHT.
 - TELECOMMUNICATIONS OUTLET, 8 PIN, RJ45 TYPE, DATA.
 - WEATHERPROOF TELECOMMUNICATIONS OUTLET, 8 PIN, RJ45 TYPE, VOICE, WALL MOUNTED 54" AFT.
 - CABLE TRAY.
 - DUPLEX TELECOMMUNICATIONS OUTLET, 8 PIN, RJ45, ONE (1) VOICE, ONE (1) DATA, MOUNTED IN CEILING.
 - TELECOMMUNICATIONS OUTLET, 8 PIN, RJ45, ONE (1) DATA, FLUSH FLOOR MOUNTED, UNLESS OTHERWISE NOTED. 4 INDICATES QUAD OUTLET.
 - DUPLEX TELECOMMUNICATIONS OUTLET, 8 PIN, RJ45, ONE (1) VOICE, ONE (1) DATA, FLUSH FLOOR MOUNTED, UNLESS OTHERWISE NOTED.

- ### LIGHTING SYMBOLS
- STRIP LIGHTING FIXTURE, SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
 - LIGHTING FIXTURE, TYPE LETTER AND CIRCUIT NUMBER SHOWN. "LPT" DENOTES PANELBOARD, "2" DENOTES CIRCUIT NUMBER, "N" DENOTES SWITCH LETTER, "A" DENOTES FEATURE TYPE LETTER (NOTATIONS TYPICAL). SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
 - LIGHTING FIXTURE, TYPE LETTER AND CIRCUIT NUMBER SHOWN. "LPT" DENOTES PANELBOARD, "2" DENOTES CIRCUIT NUMBER, "N" DENOTES SWITCH LETTER, "A" DENOTES FEATURE TYPE LETTER (NOTATIONS TYPICAL). SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS. SHADING DENOTES FIXTURE IS CONNECTED TO EMERGENCY BATTERY (BATT).
 - LIGHTING FIXTURE, TYPE LETTER, PANELBOARD, AND CIRCUIT NUMBER SHOWN. "LPT" DENOTES PANELBOARD, "4" DENOTES CIRCUIT NUMBER, AND "X" DENOTES FEATURE TYPE LETTER FROM LIGHT FIXTURE SCHEDULE (NOTATIONS TYPICAL). SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS. FULL SHADING DENOTES FIXTURE IS UNWIRING AND PROVIDED WITH EMERGENCY (BATT).
 - WEATHER PROOF ENCLOSURE.
 - PHOTOCELL.
 - EXIT SIGN, WITH DIRECTIONAL ARROWS AS SHOWN ON THE DRAWINGS. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
 - EMERGENCY LIGHTING MASTER UNIT, BATTERY POWERED. SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
 - LP1 DENOTES PANELBOARD.
 - 12 DENOTES CIRCUIT NUMBER.
 - ED DENOTES FEATURE TYPE LETTER.
 - LP1-12
 - CEILING MOUNTED LIGHTING FIXTURE, SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
 - WALL MOUNTED LIGHTING FIXTURE, SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
 - CEILING MOUNTED LIGHTING FIXTURE ON EMERGENCY SYSTEM, SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
 - ER DENOTES EMERGENCY REMOTE HEAD.
 - B DENOTES CONTROLLING MASTER UNIT.
 - WALL MOUNTED LIGHTING FIXTURE ON EMERGENCY SYSTEM, SEE LIGHTING FIXTURE SCHEDULE FOR DETAILS.
 - ER DENOTES EMERGENCY REMOTE HEAD.
 - B DENOTES CONTROLLING MASTER UNIT.

- ### SITE LIGHTING SYMBOLS
- LIGHTING CONTROL PANEL.
 - SITE LIGHTING ASSEMBLY WITH I.E.S. TYPE N, 400 WATT METAL HALIDE CLYDOR LUMINAIRE AT 30'-0" MOUNTING HEIGHT (POLE MOUNTED).
 - SITE LIGHTING ASSEMBLY WITH I.E.S. TYPE R, 100 WATT METAL HALIDE CLYDOR LUMINAIRE AT 15'-0" MOUNTING HEIGHT (POLE MOUNTED).
 - SITE LIGHTING ASSEMBLY WITH I.E.S. TYPE N, 400 WATT METAL HALIDE CLYDOR LUMINAIRE AT 25'-0" MOUNTING HEIGHT (WALL MOUNTED).
 - EXTERIOR ALUMINUM ARCHITECTURAL FLOODLIGHT WITH 100 WATT CERAMIC METAL HALIDE LUMINAIRE, WIRE FLOOD PATTERN (GROUND MOUNTED).

- ### LIGHTING CONTROL DEVICES (WATTSTOPPER BASIS OF DESIGN)
- DIGITAL TIME SWITCH, 120/277V, 0-1200W WATTSTOPPER 15-400.
 - PRR WALL SWITCH SENSOR, 120/277V, 0-1200W WATTSTOPPER PW-100.
 - PRR R-LEVEL WALL SWITCH SENSOR, 120/277V, 0-1200W WATTSTOPPER PW-200.
 - ULTRASONIC CEILING SENSOR, 240VC, 360 DEGREES TWO-SIDED, 1100 FT COVERAGE WATTSTOPPER WT-1100.
 - ULTRASONIC CEILING SENSOR, 240VC, 360 DEGREES TWO-SIDED, 1100 FT COVERAGE, ISOLATED RELAY FOR HAZ. WATTSTOPPER WT-1100.
 - ULTRASONIC CEILING SENSOR, 240VC, 360 DEGREES TWO-SIDED, 2200 FT COVERAGE WATTSTOPPER WT-2200.
 - ULTRASONIC CEILING SENSOR, 240VC, 360 DEGREES TWO-SIDED, 2200 FT COVERAGE, ISOLATED RELAY FOR HAZ. WATTSTOPPER WT-2200.
 - ULTRASONIC CEILING SENSOR, 240VC, TWO-SIDED, 90 LINEAR FT COVERAGE WATTSTOPPER WT-2255.
 - POWER PACK, 120/277V, 20A BALLAST LOAD, 240VC, 150VA OUTPUT WATTSTOPPER BE-100.
 - POWER SUPPLY, 277V, 800MA OF 240VC, WATTSTOPPER AT-277.

- ### SINGLE-LINE SYMBOLS
- SINGLE LINE DIAGRAM THERMAL-MAGNETIC CIRCUIT BREAKER.
 - SINGLE LINE DIAGRAM COMBINATION MOTOR STARTER WITH MOTOR CIRCUIT PROTECTOR (MCP), CONDUCTOR (NEMA SIZE) AND THERMAL OVERLOAD (TO).
 - SINGLE LINE DIAGRAM NON-FUSED DISCONNECT SWITCH.
 - SINGLE LINE DIAGRAM FUSED DISCONNECT SWITCH.

- ### GENERAL WIRING NOTES:
1. REFER TO DIVISIONS 26, 27, 28 AND 33 SPECIFICATIONS FOR ADDITIONAL ELECTRICAL ITEMS.
 2. MOUNTING HEIGHTS, UNLESS OTHERWISE NOTED, ARE TO CENTER LINE OF EQUIPMENT, EXCEPT MOUNTING HEIGHTS OF LIGHTING WHICH IS TO BOTTOM OF FIXTURE.
 - 54 IN. AFT (TYP.)
 - 15 IN. AFT (TYP.)
 3. PROVIDE GROUND CONDUCTOR FOR ALL BRANCH, FEEDER AND EQUIPMENT CIRCUITS SIZED PER NEC UNLESS OTHERWISE INDICATED.
 4. THE CONTRACTOR SHALL DETERMINE THE EXACT NUMBER OF CONDUCTORS AS WELL AS THE ROUTING AND SIZE OF THE RACKWAY WHERE THE NUMBER OF CURRENT-CARRYING CONDUCTORS IN A RACKWAY EXCEEDS 4, THE WIRE AMPACITIES SHALL BE DERATED IN ACCORDANCE WITH THE NATIONAL ELECTRIC CODE.
 5. CONTRACTOR TO COORDINATE ALL CONDUIT PENETRATIONS, AND PROVIDE CONDUIT SEALS IN HAZARDOUS LOCATIONS IF APPLICABLE.
 6. ALL NEUTRAL WIRES SHALL BE FULL SIZE.
 7. ALL WIRING SHALL BE 80% COPPER IN MATERIAL.
 8. ALL WIRING FOR LIGHTING AND POWER CIRCUITS SHALL BE NO. 12 AWG MINIMUM.
 9. ALL WIRING FOR CONTROL SHALL BE NO. 14 AWG MINIMUM.
 10. ALL CONDUIT SHALL BE 1/2" IN. MINIMUM FOR POWER, 1" IN. FOR DATA/COMM.
 11. THE WIRE SIZE FROM A 20 AMPERE, SINGLE POLE, 277 VOLT CIRCUIT BREAKER MOUNTED IN A LIGHTING PANELBOARD TO THE LOAD SHALL BE AS FOLLOWS:
 - NO. 12 AWG. WIRE UP TO 100 FEET RUN.
 - NO. 10 AWG. WIRE UP TO 101 FEET RUN - 200 FEET RUN.
 - NO. 8 AWG. WIRE UP TO 201 FEET RUN - 300 FEET RUN.

COONSKIN PARK MAINTENANCE FACILITY

5000 Ave. North, Suite 100
 10000 North Central Expressway, Suite 100
 Dallas, Texas 75243
 Tel: (972) 412-1234
 Fax: (972) 412-1235

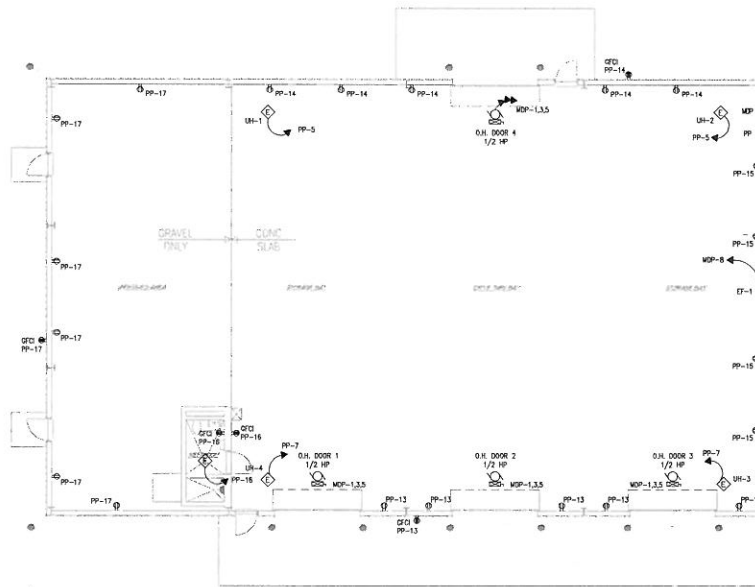
REV. NO.	DESCRIPTION	DATE	BY	CHKD.

Drawn by:	12/10/13
Project No.:	135625
Drawn by:	
Checked by:	
Reviewed by:	
Scale:	1:1
Date:	12/10/13

COONSKIN PARK MAINTENANCE FACILITY

ABBREVIATIONS, SYMBOLS LEGEND, AND GENERAL NOTES

Sheet reference number: E-0



2 POWER PLAN
E-2 SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. FIXTURES WITH SHADING SHALL BE PROVIDED WITH EMERGENCY BATTERY PACKS AND CONTAIN A BODINE EMERGENCY BATTERY PACK.
2. CONNECT EMERGENCY BATTERY PACK FIXTURES TO "ALWAYS HOT" LINE SIDE OF SWITCHING DEVICE.
3. COORDINATE ALL FIXTURE LOCATIONS WITH MECHANICAL EQUIPMENT.
4. FOR PANEL SCHEDULE and SINGLE LINE DIAGRAM SEE SHEET E-4.
5. INSTALL ALL RECEPTACLES IN GARAGE AREA AT 45" A.F.F., UNLESS NOTED OTHERWISE.
6. COORDINATE LOCATION OF RECEPTACLES WITH EQUIPMENT BY OWNER.
7. CONTRACTOR SHALL COORDINATE ALL ELECTRICAL ITEMS SHOWN ON THIS DRAWING WITH THE MECHANICAL DRAWINGS AND THE MECHANICAL EQUIPMENT SCHEDULES PRIOR TO INSTALLATION OF ELECTRICAL COMPONENTS.
8. CIRCUITS IDENTIFIED AS "MOP" REFER TO MAIN DISTRIBUTION PANEL. SEE SINGLE LINE DIAGRAM FOR WIRE AND CONDUIT SIZE.
9. MOUNT AND WIRE ALL OVERHEAD DOOR CONTROL DEVICES IN ACCORDANCE WITH OVERHEAD DOOR MANUFACTURER'S INSTRUCTIONS.

COONSKIN PARK MAINTENANCE FACILITY

DATE: 12/10/13
 DRAWN BY: MJD
 CHECKED BY: RLB
 PROJECT NO: 135625
 SHEET NO: E-2

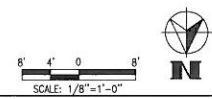
REV.	DESCRIPTION	DATE	BY	CHK.

DATE:	12/10/13	REV:	
PROJECT NO:	135625	DRAWN BY:	MJD
DRAWING CODE:		CHECKED BY:	RLB
DATE:	12/10/13	DATE:	

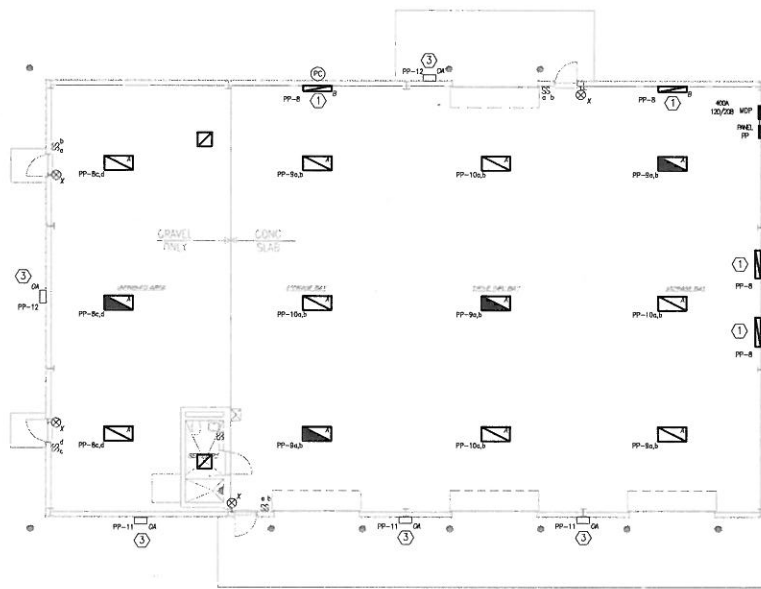
COONSKIN PARK MAINTENANCE FACILITY

POWER PLAN

Sheet reference number: E-1



000047



2 LIGHTING PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. FIXTURES WITH SHADING SHALL BE PROVIDED WITH EMERGENCY BATTERY PACKS AND CONTAIN A BOONE EMERGENCY BATTERY PACK.
2. CONNECT EMERGENCY BATTERY PACK FIXTURES TO "ALWAYS HOT" LINE SIDE OF SWITCHING DEVICE.
3. COORDINATE ALL FIXTURE LOCATIONS WITH MECHANICAL EQUIPMENT.

KEYNOTES:

- ① VERIFY EXACT LOCATION WITH OWNER (PULL CHAIN SWITCH REQUIRED).
- ② CEILING MOUNTED HEAT/LIGHT/FAN (SEE M-2 FOR DETAILS).
- ③ OUTDOOR LIGHTS ON PHOTOCELL, PROVIDE CONNECTION TO TWO CIRCUITS.

COOSKIN PARK MAINTENANCE FACILITY

DATE: 12/10/13
PROJECT: 135625
DRAWING NO.: E-2

REV	DESCRIPTION	DATE

DATE: 12/10/13
PROJECT: 135625
DRAWING NO.: E-2

DESIGNED BY: RLB
CHECKED BY: RLB
DATE: 12/10/13

COOSKIN PARK MAINTENANCE FACILITY

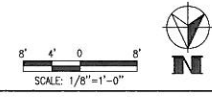
LIGHTING PLAN

Sheet reference number: E-2

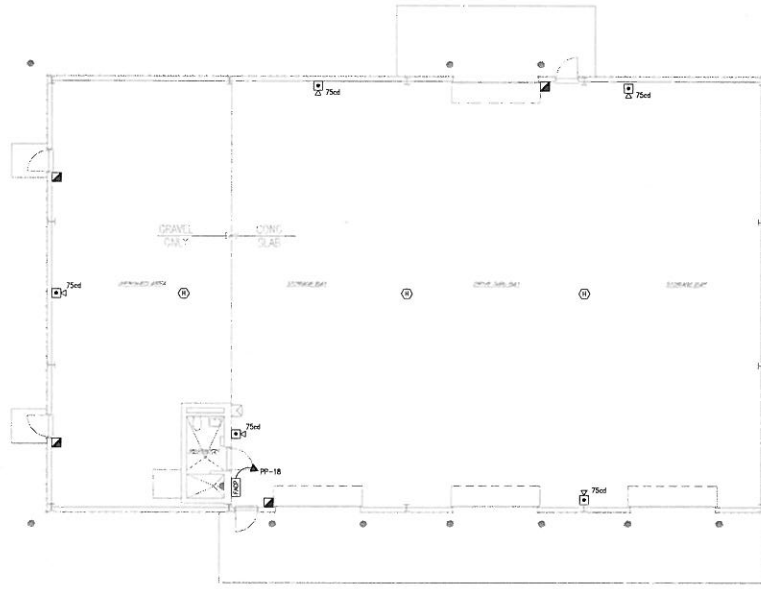
LIGHTING FIXTURE SCHEDULE										
TYPE	DESCRIPTION	MANUFACTURER	CATALOG No.	LAMP	MTG. HT	LUMENS	INPUT WATTS	VOLTS	REMARKS	
A	2'X4' 18"-DAY LUMINAIRE, WHITE PAINTED REFLECTOR, W/ UPLIGHT SLOTS CHANNEL	LITHONIA	7GB 654TSHD NIX20U NLWG MVOLT 2/3 ACRB LP835	6-54TSHD	16'-0"	4400	364	120	(2) 3 LAMP BALLASTS	
B	SURFACE MOUNT LOW PROFILE WRAPAROUND TB, 10"X4", 2-LAMP FIXTURE	LITHONIA	LB 2 28T5 MVOLT GER10P2	2-32W/848	8'-0"	---	64	120	ELECTRONIC BALLAST	
X	LED EXIT SIGN, RED LED WITH NICKEL - CADMIUM BATTERY	LITHONIA	LHDM S W R HGRD	LED	ABOVE DOOR	---	0.6	120	NO HEADS	
DA	OUTDOOR AREA / WALL MOUNTED LIGHT, DARK BRONZE	LITHONIA	WFL3 400M RM 120 SCWA	1-400 MH	14'-0"	---	465	120	1 NIGHTTIME FRIENDLY	

SCHEDULE NOTES:

1. FOR AREAS WITH LOW CEILINGS THE TYPE - "1" DESIGNATION IS FOR SURFACE MOUNT FIXTURES, OTHERS WITHIN THE GRID CEILING ARE LAY IN.



000048



1
E-3 FIRE ALARM PLAN
SCALE: 1/8" = 1'-0"

GENERAL NOTES:

1. INSTALL FIRE ALARM SYSTEM IN ACCORDANCE WITH NFPA 701.

FIRE ALARM SYMBOLS:

- ⊙ SMOKE DETECTOR
- ⊙ HEAT DETECTOR
- ⊠ PULL STATION
- ⊠ MONITOR MODULE
- ⊠ CARBON MONOXIDE DETECTOR
- ⊠ DUCT SMOKE DETECTOR
- ⊠_{15cd} HORN / STROBE COMBINATION DEVICE
cd - INDICATES CANDELA RATING
- ⊠_{15cd} STROBE
cd - INDICATES CANDELA RATING
- ⊠_{FACP} FIRE ALARM CONTROL PANEL
- WP INDICATES WEATHERPROOF

COONSKIN PARK MAINTENANCE FACILITY

1000 West Washington Street
Chicago, IL 60606
Phone: (773) 335-3313
Fax: (773) 335-3313
www.cityofchicago.org

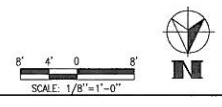
REV.	DESCRIPTION	DATE	BY

DATE: 12/10/13	REV:
PROJECT NO.: 135625	
DRAWING NO.:	
DESIGNED BY:	
CHECKED BY:	
SCALE: 1/8" = 1'-0"	
DATE: 12/10/13	

COONSKIN PARK
MAINTENANCE FACILITY

FIRE ALARM PLAN

Sheet reference
number:
E-3



000049

CERTIFICATION AND SIGNATURE PAGE

By signing below, I certify that I have reviewed this Solicitation in its entirety; understand the requirements, terms and conditions, and other information contained herein; that I am submitting this bid or proposal for review and consideration; that I am authorized by the bidder to execute this bid or any documents related thereto on bidder's behalf; that I am authorized to bind the bidder in a contractual relationship; and that to the best of my knowledge, the bidder has properly registered with any State agency that may require registration.

(Company)

(Authorized Signature)

(Representative Name, Title)

(Phone Number)

(Fax Number)

(Date)

RFQ No. _____

STATE OF WEST VIRGINIA
Purchasing Division

PURCHASING AFFIDAVIT

MANDATE: Under W. Va. Code §5A-3-10a, no contract or renewal of any contract may be awarded by the state or any of its political subdivisions to any vendor or prospective vendor when the vendor or prospective vendor or a related party to the vendor or prospective vendor is a debtor and: (1) the debt owed is an amount greater than one thousand dollars in the aggregate; or (2) the debtor is in employer default.

EXCEPTION: The prohibition listed above does not apply where a vendor has contested any tax administered pursuant to chapter eleven of the W. Va. Code, workers' compensation premium, permit fee or environmental fee or assessment and the matter has not become final or where the vendor has entered into a payment plan or agreement and the vendor is not in default of any of the provisions of such plan or agreement.

DEFINITIONS:

"Debt" means any assessment, premium, penalty, fine, tax or other amount of money owed to the state or any of its political subdivisions because of a judgment, fine, permit violation, license assessment, defaulted workers' compensation premium, penalty or other assessment presently delinquent or due and required to be paid to the state or any of its political subdivisions, including any interest or additional penalties accrued thereon.

"Employer default" means having an outstanding balance or liability to the old fund or to the uninsured employers' fund or being in policy default, as defined in W. Va. Code § 23-2c-2, failure to maintain mandatory workers' compensation coverage, or failure to fully meet its obligations as a workers' compensation self-insured employer. An employer is not in employer default if it has entered into a repayment agreement with the Insurance Commissioner and remains in compliance with the obligations under the repayment agreement.

"Related party" means a party, whether an individual, corporation, partnership, association, limited liability company or any other form or business association or other entity whatsoever, related to any vendor by blood, marriage, ownership or contract through which the party has a relationship of ownership or other interest with the vendor so that the party will actually or by effect receive or control a portion of the benefit, profit or other consideration from performance of a vendor contract with the party receiving an amount that meets or exceed five percent of the total contract amount.

AFFIRMATION: By signing this form, the vendor's authorized signer affirms and acknowledges under penalty of law for false swearing (*W. Va. Code §61-5-3*) that neither vendor nor any related party owe a debt as defined above and that neither vendor nor any related party are in employer default as defined above, unless the debt or employer default is permitted under the exception above.

WITNESS THE FOLLOWING SIGNATURE:

Vendor's Name: _____

Authorized Signature: _____ Date: _____

State of _____

County of _____, to-wit:

Taken, subscribed, and sworn to before me this ____ day of _____, 20__.

My Commission expires _____, 20__.

AFFIX SEAL HERE

NOTARY PUBLIC _____



**State of West Virginia
DRUG FREE WORKPLACE CONFORMANCE AFFIDAVIT
West Virginia Code §21-1D-5**

STATE OF WEST VIRGINIA,

COUNTY OF _____, TO-WIT:

I, _____, after being first duly sworn, depose and state as follows:

1. I am an employee of _____; and,
(Company Name)
2. I do hereby attest that _____
(Company Name)

maintains a valid written drug free workplace policy and that such policy is in compliance with **West Virginia Code** §21-1D.

The above statements are sworn to under the penalty of perjury.

By: _____

Title: _____

Company Name: _____

Date: _____

Taken, subscribed and sworn to before me this _____ day of _____, _____.

By Commission expires _____

(Seal)

(Notary Public)

THIS AFFIDAVIT MUST BE SUBMITTED WITH THE BID IN ORDER TO COMPLY WITH WV CODE PROVISIONS. FAILURE TO INCLUDE THE AFFIDAVIT WITH THE BID SHALL RESULT IN DISQUALIFICATION OF THE BID.

BID BOND PREPARATION INSTRUCTIONS

AGENCY (A) _____
RFQ/RFP# (B) _____

- (A) WV State Agency (Stated on Page 1 "Spending Unit")
(B) Request for Quotation Number (upper right corner of page #1)
(C) Your Business Entity Name (or Individual Name if Sole Proprietor)
(D) City, Location of your Company
(E) State, Location of your Company
(F) Surety Corporate Name
(G) City, Location of Surety
(H) State, Location of Surety
(I) State of Surety Incorporation
(J) City of Surety's Principal Office
(K) Minimum amount of acceptable bid bond is 5% of total bid. You may state "5% of bid" or a specific amount on this line in words.
(L) Amount of bond in numbers
(M) Brief Description of scope of work
(N) Day of the month
(O) Month
(P) Year
(Q) Name of Business Entity (or Individual Name if Sole Proprietor)
(R) Seal of Principal
(S) Signature of President, Vice President, or Authorized Agent
(T) Title of Person Signing for Principal
(U) Seal of Surety
(V) Name of Surety
(W) Signature of Attorney in Fact of the Surety

Bid Bond
KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned,
(C) of (D) (E),
as Principal, and (F) of (G),
(H), a corporation organized and existing under the laws
of the State of (I) with its principal office in the City of
(J), as Surety, are held and firmly bound unto The State
of West Virginia, as Obligee, in the penal sum of (K)
(\$ (L)) for the payment of which, well and truly to be made,
we jointly and severally bind ourselves, our heirs, administrators, executors,
successors and assigns.

The Condition of the above obligation is such that whereas the Principal has submitted to the Purchasing Section of the Department of Administration a certain bid or proposal, attached hereto and made a part hereof to enter into a contract in writing for
(M)

NOW THEREFORE

(a) If said bid shall be rejected, or
(b) If said bid shall be accepted and the Principal shall enter into a contract in accordance with the bid or proposal attached hereto and shall furnish any other bonds and insurance required by the bid or proposal, and shall in all other respects perform the agreement created by the acceptance of said bid then this obligation shall be null and void, otherwise this obligation shall remain in full force and effect. It is expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no event, exceed the penal amount of this obligation as herein stated

The Surety for value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no way impaired or affected by any extension of time within which the Obligee may accept such bid: and said Surety does hereby waive notice of any such extension.

WITNESS, the following signatures and seals of Principal and Surety, executed and sealed by a proper officer of Principal and Surety, or by Principal individually if Principal is an individual, the (N) day of (O), 20 (P).

Principal Seal (R) (Q) (Name of Principal)
By (S) (Must be President, Vice President, or Duly Authorized Agent)
(T) Title
Surety Seal (U) (V) (Name of Surety)
(W) Attorney-in-Fact

NOTE 1: Dated Power of Attorney with Surety Seal must accompany this bid bond.

IMPORTANT - Surety executing bonds must be licensed in West Virginia to transact surety insurance, must affix its seal, and must attach a power of attorney with its seal affixed.

Agency _____
REQ.P.O# _____

BID BOND

KNOW ALL MEN BY THESE PRESENTS, That we, the undersigned, _____
of _____, _____, as Principal, and _____
of _____, _____, a corporation organized and existing under the laws of the State of _____
with its principal office in the City of _____, as Surety, are held and firmly bound unto the State
of West Virginia, as Obligee, in the penal sum of _____ (\$ _____) for the payment of which,
well and truly to be made, we jointly and severally bind ourselves, our heirs, administrators, executors, successors and assigns.

The Condition of the above obligation is such that whereas the Principal has submitted to the Purchasing Section of the
Department of Administration a certain bid or proposal, attached hereto and made a part hereof, to enter into a contract in writing for

NOW THEREFORE,

- (a) If said bid shall be rejected, or
- (b) If said bid shall be accepted and the Principal shall enter into a contract in accordance with the bid or proposal
attached hereto and shall furnish any other bonds and insurance required by the bid or proposal, and shall in all other respects perform
the agreement created by the acceptance of said bid, then this obligation shall be null and void, otherwise this obligation shall remain in
full force and effect. It is expressly understood and agreed that the liability of the Surety for any and all claims hereunder shall, in no
event, exceed the penal amount of this obligation as herein stated.

The Surety, for the value received, hereby stipulates and agrees that the obligations of said Surety and its bond shall be in no
way impaired or affected by any extension of the time within which the Obligee may accept such bid, and said Surety does hereby
waive notice of any such extension.

WITNESS, the following signatures and seals of Principal and Surety, executed and sealed by a proper officer of Principal and
Surety, or by Principal individually if Principal is an individual, this _____ day of _____, 20_____.

Principal Seal

(Name of Principal)

By _____
(Must be President, Vice President, or
Duly Authorized Agent)

(Title)

Surety Seal

(Name of Surety)

Attorney-in-Fact

**IMPORTANT – Surety executing bonds must be licensed in West Virginia to transact surety insurance, must affix its seal, and
must attach a power of attorney with its seal affixed.**



State of West Virginia

PURCHASING DIVISION

Construction Bid Submission Review Form

This list has been provided for informational purposes only and is not to be construed as a complete list of request for quotation or bidding requirements for any individual construction project. This list does not and cannot include every item, mistake or oversight that could cause a contractor's bid to be disqualified. Rather, this list is intended to draw attention to some of the most common problems that the Purchasing Division encounters in the bidding process for construction projects. All potential bidders must read the request for quotation, all additional documents, and all instructions relating thereto ("Bid Documents") in their entirety to identify the actual request for quotation and bidding requirements. Failure to read the Bid Documents in their entirety and comply with the stated requirements contained therein may result in bid disqualification.

Errors That Shall Be Reason for Immediate Bid Disqualification

1. Failure to attend a mandatory pre-bid meeting
2. Failure to sign the bid
3. Failure to supply West Virginia contractor's license # on bid
4. Failure to supply a signed drug free workplace affidavit with the bid
5. Failure to supply a valid bid bond or other surety approved by the State of West Virginia
6. Failure to meet any mandatory requirement of the RFQ
7. Failure to acknowledge receipt of Addenda (only if stipulated as mandatory)
8. Failure to submit bid prior to the bid opening date and time
9. Federal debarment
10. State of West Virginia debarment or suspension

Errors that May Be Reason for Bid Disqualification Before Contract Award

1. Uncontested debt to the State exceeding \$1,000.00 (must be cured prior to award)
2. Workers' Compensation or Unemployment Compensation delinquency (must be cured prior to award)
3. Not registered as a vendor with the State (must be cured prior to award)
4. Failure to obtain required bonds and/or insurance
5. Failure to provide the sub-contractor listing within 1 business day of bid opening.
6. Failure to use the provided RFQ form (only if stipulated as mandatory).