Invitation to Bid (ITB) D00107

DISTRICT 4 – SHOSHONE TRUCK WASH

IDAHO TRANSPORTATION DEPARTMENT

<u>A PUBLIC WORKS LICENSE IS REQUIRED</u>

Date of Issuance: 9/7/2016

TABLE OF CONTENTS

ADMINISTRATIVE INFORMATION **4**
1 PURPOSE **5**
2 GENERAL INFORMATION, SOLICITATION INSTRUCTIONS AND STANDARD TERMS AND CONDITIONS **5**
3 INQUIRIES **5**
4 SUBMISSION REQUIREMENTS **6**
4.1 REQUIRED BID SUBMISSION ITEMS 6
4.2 BID SUBMISSION METHODS 6
5 AWARD **6**
6 BASIS OF PAYMENT **6**
7 POINT(S) OF CONTACT **6**
8 PRE-BID CONFERENCE **7**
9 SCOPE OF WORK **7**
9.1 WORKSITE CLEANUP 7
9.2 WORK NOT NOTED, DETAILED, OR SPECIFIED 7
10 SPECIAL PROVISIONS **7**
10.1 CONSTRUCTION REQUIREMENTS 7
10.2 GENERAL 8
10.3 GUARANTEE 8
10.4 WARRANTIES, GUARANTEES AND INSTRUCTION SHEETS 8
10.5 PERMITS 8
10.6 CODES 8
10.7 WORK NOT NOTED, DETAILED OR SPECIFIED 8
10.8 TEMPORARY UTILITIES 8
10.9 PROTECTION 9
10.10 AS BUILT DRAWINGS 9
10.11 DIMENSIONS AND MEASUREMENTS 9
10.12 COORDINATION AND CONTROL 9
10.13 SUPERINTENDENT 9
10.14 CHANGE ORDERS 9
11 LOCATION **9**
12 COST **9**
13 PAYMENT & BILLING **9**
14 CONTRACT MONITORING **10**
15 LIQUIDATED DAMAGES **10**
16 BID GUARANTY (FIVE PERCENT BID BOND **10**
17 RETURN OF BID GUARANTY (FIVE PERCENT BID BOND) **10**
18 SURETY BOND REQUIREMENTS (PERFORMANCE AND PAYMENT BOND) **11**
19 DRUG-FREE WORKPLACE PROGRAM **11**
20 LICENSING OF CONTRACTORS **11**
21 COMPLIANCE WITH **11**
21.1 2012 ITD STANDARD SPECIFICATIONS FOR HIGHWAY CONSTRUCTION 11
21.2 ITD POLICY COMPLIANCE 11
22 SUBCONTRACTORS **12**
23 RECORDS MAINTENANCE **12**
24 AUDIT RIGHTS **12**
25 INSURANCE REQUIREMENTS **12**
ATTACHMENT A- BID SCHEDULE **15**
ATTACHMENT B- AFFIDAVIT: DRUG FREE WORKPLACE PROGRAM **16**

ATTACHMENT C- SUBCONTRACTOR LICENSING **17**
ATTACHMENT D- SIGNATURE PAGE **18**
APPENDIX 1 - ARCHITECTURAL SPECIFICATIONS **19**
APPENDIX 2 – ARCHITECTURAL DRAWINGS **26**

ADMINISTRATIVE INFORMATION

ITB Title:	District 4 – Shoshone Truck Wash
ITB Project Description:	The construction of a rigid-frame, open-ended, metal truck wash structure.
ITB Lead:	Lori Royal, Buyer Idaho Transportation Department 63 W. Hwy 26, Shoshone ID 83352 Lori.royal@itd.idaho.gov 208-886-7891
Submit sealed bid: BIDS MUST BE RECEIVED AT THE PHYSICAL ADDRESS DESIGNATED FOR COURIER SERVICE AND TIME/DATE STAMPED BY ITD PRIOR TO THE CLOSING DATE AND TIME.	Address for Courier/US Mail: Lori Royal, Buyer Idaho Transportation Department 63 W. Hwy 26 Shoshone, ID 83352
Pre-Bid Conference: Pre-Bid Conference Location:	10:30 a.m. Mountain Time on September 21, 2016 Idaho Transportation Department 63 W. Hwy 26, Shoshone ID 83352
Deadline To Receive Questions:	5:00 p.m. Mountain Time on September 28, 2016
ITB Closing Date:	5:00 p.m. Mountain Time on October 17, 2016
ITB Opening Date:	10:30 a.m. Mountain Time on October 18, 2016
Service Completion:	The service performed under the contract will begin upon ITD's written notice to proceed and must be complete within 60 calendar days.

1 PURPOSE

The Idaho Transportation Department (ITD) is requesting bids from qualified bidders for the construction of a rigid-frame; open-ended, metal building with sidewalls in accordance with the specifications contained herein.

2 GENERAL INFORMATION, SOLICITATION INSTRUCTIONS AND STANDARD TERMS AND CONDITIONS

This solicitation is issued by the Idaho Transportation Department via: (http://itd.idaho.gov/AdminServices/NonHwyConstructionProjects/bidding_info.htm). The Idaho Transportation Department is the only contact for this solicitation. All correspondence regarding this ITB must be in writing. In the event that it becomes necessary to revise any part of this ITB, addendums will be posted at the website provide above. It is the responsibility of the bidder to monitor this website for any updates or addendums. Any oral interpretations or clarifications of this ITB will not be relied upon. All changes to this ITB must be in writing and posted at to the website to be valid. Alternate bids are not allowed.

The current version of the Idaho Transportation Department, Business & Support Management Solicitation Terms and Conditions are incorporated by reference into this solicitation, and any resulting contract, as if set forth in their entirety. This document can be downloaded at http://itd.idaho.gov/AdminServices/NonHwyConstructionProjects/PDFS/ITD%20BSM%20Solicitation%20Terms%20and%20Conditions%20July%202015.pdf; or copies obtained by contacting the solicitation's lead (see **Section 3**, Inquiries). Failure by any submitting bidder to obtain a copy of these documents will in no way constitute or be deemed a waiver by ITD of any term, condition, or requirement contained in the referenced documents; and no liability will be assumed by ITD for a submitting bidder's failure to consider the Idaho Transportation Department, Business & Support Management Solicitation Terms and Conditions in preparing its response to the solicitation.

3 INQUIRIES

Questions or other correspondence must be submitted in writing to the ITD contact listed below. **QUESTIONS MUST BE RECEIVED BY 5:00 PM Mountain Time (MT) ON THE DATE LISTED IN THE ADMINISTRATIVE INFORMATION PAGE.** Timely received written questions will be answered via an addendum which will be posted to http://itd.idaho.gov/AdminServices/NonHwyConstructionProjects/bidding_info.htm.

ITBLead: Lori Royal, Buyer
Phone: 208-886-7891
E-mail: lori.royal@itd.idaho.gov

Any questions regarding the Idaho Transportation Department, Business & Support Management Solicitation Terms and Conditions must also be submitted in writing, by the deadline identified in this subsection. ITD will not consider proposed modifications to these requirements after the date and time set for receiving questions. Questions regarding these requirements must contain the following:

1. The rationale for the specific requirement being unacceptable to the party submitting the question (define the deficiency);
2. Recommended verbiage for ITD's consideration that is consistent in content, context, and form with ITD's requirement that is being questioned;
3. Explanation of how ITD's acceptance of the recommended verbiage is fair and equitable to both ITD and to the party submitting the question.

Bids which condition the bid based upon ITD accepting other terms and conditions not found in the ITB, or which take exception to ITD's terms and conditions, will be found non-responsive, and no further consideration of the bid will be given.

4 SUBMISSION REQUIREMENTS

4.1 Required Bid Submission Items

Your bid submission must consist of the following:

4.1.1 Bid Schedule (Attachment A)
4.1.2 Affidavit: Drug Free Workplace Program (Attachment B)
4.1.3 Subcontractor Licensing – if applicable (Attachment C)
4.1.4 Signature Page (Attachment D)

4.2 Bid Submission Methods

Bids must be submitted manually (via U.S. Mail, courier/hand-delivery) in a sealed envelope/package. Do not fax or e-mail your bid. Your bid must be received at the location and by the date and time specified on the ITB Administrative Information Page. The official time, for bid closing purposes, is ITD's time clock. Alternate bids will not be allowed.

4.2.1 Submission Method Requirements

Seal all required bid submission items in a single envelope or package (be certain to include an original hand-written signature in ink OR an electronic digital I.D. on the Signature Page) and label the outside of the package as follows:

Attn: Lori Royal, Idaho Transportation Department
Bidder Name: (Company Name)
ITB Number:
ITB Title:
ITB Closing Date:

Bidders must provide one (1) original copy of their bid.

5 AWARD

Award will be made, all or none, to the responsive, responsible bidder with the lowest Total Cost, as provided on **Attachment A**, Bid Schedule.

6 BASIS OF PAYMENT

ITD will pay the Contractor for accepted contract pay items based on the amount bid on the Bid Schedule **Attachment A**.

7 POINT(S) OF CONTACT

Administrator for this solicitation and it's resulting contract is:

Lori Royal
Idaho Transportation Department
E-Mail lori.royal@itd.idaho.gov
Phone 208 886 7891

Contract information for ITD's Project Manager(s) will be provided to the Contractor(s) following award of the contract. The Project Manager will be the Contractor's point of contact for the project specific coordination requirements.

8 PRE-BID CONFERENCE

All interested parties may attend the optional pre-bid conference, at their expense. Parties interested in attending this conference should notify (in writing) the ITB Lead no later than one (1) business day prior to the date of the pre-bid conference. The written request should specify the name and title of each person who will be attending. A maximum of three (3) persons for each party interested will be allowed to attend in-person.

Interested parties may also attend the pre-bid conference via teleconference by obtaining conference call-in details from the ITB Lead.

Failure to attend the optional pre-bid conference will not relieve the bidder of meeting the requirements of this ITB.

9 SCOPE OF WORK

The scope of work includes but is not limited to providing all required materials, tools, equipment, labor and supervision for the construction of one (1) concrete and rigid frame, metal, open-ended building with sidewalls. The contractor will also provide one (1) concrete masonry unit structure including all mechanical, electrical and yard improvements as shown on the plans and described in **Appendix 1,** Architectural Specifications.
The Architectural drawings listed below are attached to the solicitation and can be downloaded at http://itd.idaho.gov/AdminServices/NonHwyConstructionProjects/bidding_info.htm.

Dimensions specified are nominal and minor changes necessary to accommodate suppliers' modular designs may be accepted by the Project Manager.

The Contractor must furnish and install all necessary parts and accessories required for complete installation and other items essential for the complete project.

Note: Contractor will be responsible for building permit from Division of Building Safety (DBS) and uploading foundation design, building design and structural calculations for DBS approval as noted on plans.

9.1 Worksite Cleanup

The Contractor must keep work areas free of waste materials. Upon completion of work, all waste, tools, supplies, and materials must be removed from ITD's premises. Any tools and supplies left onsite after work completion will be considered property of ITD.

9.2 Work not noted, detailed, or specified

All work required for complete installation or assembly must be included in the bid. Where minor portions of required work are not noted, detailed, or specified, such work must be done in accordance with proven construction practice or accepted industry standards at no additional cost to ITD. The Contractor will be held responsible for verification of existing job conditions prior to bid; no additional cost will be awarded to the Contractor for failure to verify existing field conditions. Discrepancies or questions arising between actual field conditions and contract documents must be submitted in accordance with **Section 3**, Inquiries.

10 SPECIAL PROVISIONS

10.1 Construction Requirements

Design parameters in **Appendix 1,** Architectural Specifications and Drawings apply to the respective location. The successful bidder will be required to show certified engineering proof, stamped by a professional civil engineer licensed in the State of Idaho, documenting that the structure will support the specific snow load, wind design and seismic design.

All finish grading and site finish work 10'-0" outside of the roof line will be accomplished by State Forces. The Contractor will be responsible for trenching, backfill, grading and cleanup of all disturbed areas regardless of location. The Contractor will be responsible for the finish grading from the building foundation 10'-0" outside the roof line.

The basic design is for a building of open-ended metal construction consisting of a rigid frame with sidewalls. The truck wash contains a concrete wash pad, collection pit, settling tanks and CMU structure with wash equipment as shown on the plans and specifications.

Structural design and foundation design requires certification by a registered professional engineer licensed in the State of Idaho.

10.2 General

Materials incorporated into this project will be new and free from defects and of the best commercial quality for the purpose specified.

10.3 Guarantee

Excepting where certain portions of the work call for a longer period, all work will be guaranteed for a minimum period of one (1) year after the date of final acceptance; during the guarantee period, any repairs or replacements required because of defective workmanship or material will be at the contractor's expense.

10.4 Warranties, Guarantees and Instruction Sheets

Two (2) copies of the manufacturer's warranties, guarantees, instruction sheets, and parts lists for all Contractors' furnished materials must be turned over to ITD upon completion of the project.

10.5 Permits

Pursuant to Section 39-4103 Idaho Code, the Division of Building Safety is responsible for the issuance of building permits and building inspections for construction projects owned by the State of Idaho. This is separate from any required state electrical, plumbing, and mechanical or elevator permits. The Contractor will obtain and pay for all licenses and permits and will pay fees and charges for connection to outside services to include water, sewer and electricity and the use of private or public property for storage of materials, etc. The Contractor will comply, without additional expense to ITD, with all State, County and Municipal building ordinances and regulations insofar as the same are binding upon the State. ITD will reimburse the Contractor for utility hookup fees at invoice costs.

10.6 Codes

The Contractor, including subcontractors, will submit their bid in accordance with plans and specifications. If plans and specifications do not comply with any codes having jurisdiction in that particular place or construction, the Contractor must notify ITD prior to bidding in writing and faxed to the number stated in the bid document. If prior notification is not given, it will be assumed that the Contractor's base bid includes, to the best of their knowledge and experience, all work necessary to comply with such codes.

10.7 Work Not Noted, Detailed or Specified

All work required for complete installation or assembly will be included in the Contractor's bid. Where minor portions of required work are not noted, detailed, or specified, such work will be done in accordance with proven construction practice or accepted industry standards at no additional cost to the owner. The Contractor will be held responsible for verification of existing job conditions prior to bid. No additional cost will be awarded to the successful contractor (or their subcontractors) after bids have been submitted and contracts awarded for failure to verify existing field conditions. Discrepancies or questions arising between actual field conditions and contract documents will be made in writing.

10.8 Temporary Utilities

The Contractor may use existing utilities as directed.

10.9 Protection

The Contractor will, at all times, protect the project from damage; remove and replace with new work any work damaged by failure to provide protections. Replacement of damaged work will be at no additional cost to ITD.

10.10 As Built Drawings

The Contractor will provide the Facilities Manager with two (2) complete sets of as-built drawings. As-built drawings must provide detailed and accurate sizes, dimensions and locations of all work items covered under this contract. The Contractor will instruct the separate trades to keep accurate measurements and records of their installation, as the work proceeds. No measurement or payment will be made for as-built drawings, but the cost thereof will be considered incidental to the items of work under this contract.

10.11 Dimensions and Measurements

The Contractor must field verify all dimensions pertaining to the work and will be responsible for the determination of all quantities of materials required for the work and for the accuracy of all dimensions of materials and items fabricated for this project. The Contractor must not rely on the scale drawings in the project drawings for the determination of exact quantities or dimensions.

10.12 Coordination and Control

This work will proceed in an effective sequence so as to eliminate unnecessary work stoppages at the project site.

10.13 Superintendent

The Contractor will employ a competent Foreman and necessary assistants who will be in attendance at the project site during the progress of work. The Foreman must be satisfactory to the Facilities Manager, and will not be changed except with the consent of the Facilities Manager unless the Foreman proves to be unsatisfactory to the Contractor and ceases to be in their employ. Under this circumstance, the new Foreman will also be satisfactory to the Facilities Manager. The Foreman will represent the Contractor and all communications given to the Foreman will be as binding as if given to the Contractor. Important communications will be confirmed in writing.

10.14 Change Orders

The Contractor agrees that the amount allowed for overhead and profit on any Change Order is limited to the amounts indication below.

1. For total changes of $10,000 or less in direct cost, the amount allowed for overhead, profit, bonds and insurance for the Contractor and all subcontractors of any tier combined will not exceed twenty percent (20%) of direct costs;
2. For total changes exceeding $10,000 in direct cost, the amount allowed for overhead, profit, bonds and insurance for the Contractor and all subcontractors of any tier combined will not exceed fifteen percent (15%) of direct costs; or
3. The Contractor will determine the amount of overhead and profit to be apportioned between the Contractor and its subcontractor of allowable amounts of overhead, profit, bonds and insurance.

11 LOCATION

The building will be located at 63 W. Hwy 26, Shoshone ID as shown on **Appendix 2, Drawings,** Site Plan A-0.1**.**

12 COST

Provide your fully burdened Total Cost on **Attachment A**, Bid Schedule.

13 PAYMENT & BILLING

The Contractor must submit invoices to the ITD billing location provided below. ITD will render payment for a properly executed invoice NET thirty (30) days from the date of the invoice, for pay items accepted by ITD.

Invoices must include the following information:

- Contract Number (and name of project/product, if appropriate)
- Identification of Billing Period.
- Total amount billed for the billing period.
- Detailed description of services/products provided and associated # of hours/$ amounts, as appropriate.
- Name of authorized individual/contact information for Contractor

Invoices must be submitted to:

Idaho Transportation Department
Attn: Accounts Payable
216 S. Date St
Shoshone, ID 83352
Electronic: D4AP@itd.idaho.gov

14 CONTRACT MONITORING

If a formal and written complaint is registered with the Contractor in respect to unsatisfactory work performance, the Contractor will have seventy-two (72) hours in which to respond in person to the complaint, to remedy the problem(s). Failure to respond in the prescribed time to the complaint or to remedy the problem may result in termination of the contract as provided in the Idaho Transportation Department, Business & Support Management Solicitation Terms and Conditions.

If ITD is not satisfied with the results and remediation of the complaint, periodic and joint inspections with the Contractor may be required to discuss and point out Contractors violations. Failure of the Contractor to attend these inspections may result in termination of the contract.

15 LIQUIDATED DAMAGES

The amount for Liquidated Damages for failure to complete the work within 60 calendar days from Notice to Proceed will be $200.00 per day.

16 BID GUARANTY (FIVE PERCENT BID BOND

No Bid shall be considered unless accompanied by a 5% Bid Bond of the character and in an amount not less than the amount indicated on the Bid, to be forfeited if the Bidder, upon acceptance of Bid, fails or refuses to enter into a contract within fifteen (15) days after the presentation of the contract by ITD for execution and to furnish the required bond.
Bid Bonds shall be submitted on the most current version of The American Institute of Architects (AIA) Document 310, signed by the Bidder and their surety company. Power of Attorney for the person who executes the bond on behalf of the surety as Attorney-In-Fact must accompany the Bid bond.

Guarantees submitted via any other obligation shall NOT be considered and the Bid shall be rejected.

Please note: Bonding Surety must be registered and licensed with the Idaho Department of Insurance at the time of Bid closing. Bid Guaranty shall not be accepted if Surety is not registered and licensed in Idaho, and Bid shall be deemed non-responsive and rejected.

17 RETURN OF BID GUARANTY (FIVE PERCENT BID BOND)

Bid guaranties, except those of the two lowest responsive, responsible Bidders, shall be returned immediately following the opening and checking of the Bids. The retained Bid guaranty of the unsuccessful of the two lowest responsive, responsible Bidders shall be returned within 10 days following the award of contract and that of the successful Bidder shall be returned after satisfactory Surety bonds have been furnished and the contract has been executed.

18 SURETY BOND REQUIREMENTS (PERFORMANCE AND PAYMENT BOND)

The apparent successful bidder must furnish a performance bond and a payment bond each in the amount of the contract, within fifteen (15) calendar days upon receipt of the contract from ITD.

Performance and Payment Bonds must be submitted on the most current version of The American Institute of Architects (AIA) Document 312, signed by the bidder and their surety company. Power of Attorney for the person who executes the bond on behalf of the surety as Attorney-In-Fact must accompany the bonds. Guarantees submitted via any other obligation will NOT be accepted.

The Bonding Surety must be registered and licensed with the Idaho Department of Insurance. Performance and Payment bonds will not be accepted if the Surety is not registered and licensed in Idaho, and the contract will not be executed by ITD.

19 DRUG-FREE WORKPLACE PROGRAM

Bidders must submit an affidavit (see **Attachment B**), certifying compliance with Section 72-1717, Idaho Code, requiring the Contractor and its subcontractors at the time of bid to provide a drug-free workplace program and to maintain such program throughout the duration of the Contract.

20 LICENSING OF CONTRACTORS

The Contractor, and any subcontractors, must possess the appropriate public works contractor license in accordance with Title 54, Chapter 19, Idaho Code, as amended.

The Contractor, and any subcontractors required to be listed in the bid proposal must possess the license by the date and time of bid submission.

21 COMPLIANCE WITH

21.1 2012 ITD Standard Specifications for Highway Construction

The 2012 ITD Standard Specification for Highway Construction and the most current Quality Assurance Manual are incorporated by reference where applicable to this solicitation.

The 2012 ITD Standard Specification for Highway Construction is available for $30.00 plus tax. Contact ITD at 334-8430 to purchase, or visit: http://itd.idaho.gov/manuals/ManualsOnline.htm, to download both the 2012 ITD Standard Specification for Highway Construction and the Quality Assurance Manual.

21.2 ITD POLICY COMPLIANCE

The following ITD policies apply to this contract when the Contractor is performing work at an ITD facility or when using ITD equipment or other property. These policies will remain in force for the duration of the contract:

5055	Harassment in the Workplace policy
5523	Alcohol and Drug-free Workplace policy
5510	Computer, E-Mail, and Internet Usage policy
5033	Workplace Violence Policy

These policies are provided at: http://itd.idaho.gov/AdminServices/NonHwyConstructionProjects/PDFS/ITD%20Policy%20Compliance%20Dec%202015.pdf,and incorporated in this agreement. It is the Contractor's responsibility to read, understand and comply with these policies; one hundred percent (100%) compliance is mandatory. Furthermore, Contractor is responsible for ensuring that all their employees and subcontractors adhere to these policies. ITD reserves the right to remove from its premises, at any time, any Contractor or his/her employee or subcontractor that fails to follow these

policies. ITD also reserves the right to remove its property, at any time, from any Contractor or his/her employee or subcontractor that fails to follow these policies.

All Contractor's employees and subcontractors are required to wear identification badges at all times while on the ITD's premises. The Contractor and its employees or subcontractors are not employees of ITD, but ITD retains the right to control its own work place and the use of its property.

22 SUBCONTRACTORS

The Contractor cannot sublet, sell, transfer, assign, or otherwise dispose of the contract or any portion of the contract, or the right, title, or interest in the contract without the ITD's written consent. If ITD consents to subletting a portion of the work, the Contractor must use its own organization to perform work amounting to at least thirty percent (30%) of the original contract amount.

If subcontracting is proposed, the bidder must complete **Attachment C**, Subcontractor Licensing, giving the name, address, and Public Works Contractors License Number for any and all companies who will, in the event the bidder secures the contract, complete the plumbing, electrical, or HVAC work under the contract in accordance with Section 67-2310, Idaho Code.

Companies must possess an appropriate Idaho Public Works Contractors License issued by the State of Idaho Public Works Contractors State License Board covering the contract work classification in which they are named.

Note: Section 67-2310, Idaho Code, also states "No general contractor shall name any subcontractor in his bid unless the general contractor has received communication from the subcontractor."

23 RECORDS MAINTENANCE

The Contractor must maintain or supervise the maintenance of all records necessary to properly account for all payments made to the Contractor pursuant to the Contract. These records must be retained by the Contractor for at least three (3) years after the Contract terminates, or until all audits initiated within the three (3) years have been completed, whichever is later.

24 AUDIT RIGHTS

The Contractor agrees to allow State and Federal auditors and ITD purchasing staff access to all the records relating to this Contract, for audit, inspection, and monitoring of services or performance. Such access will be during normal business hours or by appointment.

25 INSURANCE REQUIREMENTS

Within fifteen (15) calendar days of notification of award (or such other time as designated by the Purchasing Activity), the apparent successful bidder must provide certificates of insurance required herein and must maintain the insurance during the life of the Contract. There are no provisions for exceptions to this requirement. Failure to provide the certificates of insurance within the fifteen (15) calendar day period may be cause for your bid to be declared non-responsive or for your contract to be cancelled.

The Contractor must carry liability and property damage insurance that will protect it and the State of Idaho from claims for damages for bodily injury, including accidental death, as well as for claims for property damages, which may arise from operations under the Contract whether such operations be by themselves or by anyone directly or indirectly employed by either of them.

The Contractor cannot commence work under the Contract until it obtains all insurance required under this provision and furnishes a certificate or other form showing proof of current coverage to the State. All insurance policies and certificates must be signed copies. After work commences, the Contractor must keep in force all required insurance until the contract is terminated.

1.1 Commercial General and Umbrella Liability Insurance. Contractor must maintain Commercial General Liability (CGL) and, if necessary, Commercial Umbrella insurance with a limit of not less than $1,000,000 each occurrence. If such CGL insurance contains a general aggregate limit, it must apply separately to this Contract.

1.1.1 CGL insurance must be written on ISO occurrence form CG 00 01 (or a substitute form providing equivalent coverage) and must cover liability arising from premises, operations, independent contractors, products-completed operations, personal and advertising injury, and liability assumed under an insured contract (including the tort liability of another assumed in a business contract).

1.2 Commercial Automobile and Commercial Umbrella Liability Insurance. The Contractor must maintain Commercial Automobile Liability and, if necessary, Commercial Umbrella Liability insurance with a limit of not less than $1,000,000 each accident. Such insurance must cover liability arising out of any auto (including owned, hired, and non-owned autos).

1.2.1 Bidders may request a waiver from providing Commercial Automobile and Commercial Umbrella Liability Insurance in its bid if the bidder will not use any owned, hired or non-owned vehicles to conduct business under the contract, if it is awarded the contract, and the State of Idaho will consider the request. If the bidder submits a request to waive the provision of Commercial Automobile and Commercial Umbrella Liability Insurance after the due date and time for receipt of bids or proposals, the State of Idaho may not consider the request.

1.3 Workers Compensation Insurance and Employer's Liability. The Contractor must maintain workers compensation and employer's liability. The employer's liability must have limits not less than $500,000 each accident for bodily insurance by accident or $500,000 each employee for bodily injury by disease.

1.3.1 The Contractor must provide either a certificate of workers compensation insurance issued by a surety licensed to write workers compensation insurance in the State of Idaho, as evidence that the Contractor has in effect a current Idaho workers compensation insurance policy, or an extraterritorial certificate approved by the Idaho Industrial Commission from a state that has a current reciprocity agreement with the Idaho Industrial Commission.

1.4 State of Idaho as Additional Insured: The liability insurance coverage required for performance of the Contract must include the State of Idaho, the (agency) and its divisions, officers and employees as additional insured, but only with respect to the Contractor’s activities to be performed under this Contract.

1.4.1 The Contractor must provide proof of the State of Idaho, the (agency) and its divisions, officers and employees being additional insured by providing endorsements to the liability insurance policies showing the State of Idaho, the (agency) and its divisions, officers and employees as additional insured. The endorsements must also show the policy numbers and the policy effective dates.

1.4.2 If a liability insurance policy provides for automatically endorsing additional insured when required by contract, then, in that case, the Contractor must provide proof of the State of Idaho, the (agency) and its divisions, officers and employees being additional insured by providing copies of the policy pages that clearly identify the blanket endorsement.

1.5 Notice of Cancellation or Change: The Contractor must ensure that should any of the above described policies be cancelled before the expiration date thereof, or if there is a material change, potential exhaustion of aggregate limits or intent not to renew insurance coverage(s), that written notice will be delivered to the ITD in accordance with the policy provisions.

1.6 The Contractor must further ensure that all policies of insurance are endorsed to read that any failure to comply with the reporting provisions of this insurance, except for the potential exhaustion of aggregate limits, will not affect the coverage(s) provided to the State of Idaho, and its divisions, officers and employees.

1.7 Acceptable Insurers and Deductibles: Insurance coverage required under the Contract must be obtained from insurers rated A-VII or better in the latest Bests Rating Guide and in good standing and authorized to transact business in Idaho. The Contractor must be financially responsible for all deductibles, self-insured retention's and/or self-insurance included hereunder. The coverage provided by such policy will be primary to any coverage of the State on or related to the contract and must provide that the insurance afforded applies separately to each insured against whom a claim is made, except with respect to the limitation of liability.

Waiver of Subrogation: All policies must contain waivers of subrogation. The Contractor waives all rights against the State and its officers, employees, and agents for recovery of damages to the extent these damages are covered by the required policies. Policies may contain deductibles but such deductibles will not be deducted from any damages due to the State.

ATTACHMENT A- BID SCHEDULE

ITB Number D00107 District 4 – Shoshone Truck Wash

Company Name of Bidder: _____

Contact Name/Phone: _____

Contact E-mail: _____

The bid item must be filled in completely by the bidder in the bid schedule, by indicating total dollars and cents under the Total Amount Bid. All costs, including hourly rates will be included here and will be fully burdened to include; but not limited to, wages transportation, lodging, overhead, and per-diem.

All of the items shown or noted on the plans or in these specifications, which are not specifically a bid item, are considered incidental items. The cost of furnishing and installing all incidental items will not be paid for separately, but must be included in the contract under Total Amount Bid, unless otherwise noted.

All figures should be written in ink or typed. Penciled entries will not be accepted; bids will be considered irregular and rejected.

ITEM	DESCRIPTION	UNIT	TOTAL AMOUNT BID
1	ITD DISTRCT 4 - SHOSHONE TRUCK WASH 63 W, HWY 26 Shoshone, ID	LUMP SUM	$_____

THIS ATTACHMENT MUST BE COMPLETED AND RETURNED WITH RESPONSE

ATTACHMENT B- AFFIDAVIT: DRUG FREE WORKPLACE PROGRAM

ITB Number D00107 District 4 – Shoshone Truck Wash

STATE OF _____

COUNTY OF _____

The undersigned being duly sworn upon oath deposes and says that _____
(Contractor Name)

complies with the provisions of Section 72-1717 Idaho Code (Drug Free Workplace program); that

_____provides a drug-free workplace program that complies with the
(Contractor Name)

provisions of Idaho Code, Title 72, Chapter 17 and will maintain such program throughout the life this contract

and that _____ will subcontract work only to
(Contractor Name)

subcontractors meeting the requirements of Idaho Code, section 72-1717(1)(a).

_____
Name of Contractor

_____
Address

_____
City and State

By: _____
(Signature)

Subscribed and sworn to before me this _____ day of _____, in the year _____.
Commission expires: _____

_____
NOTARY PUBLIC, residing at

_____

_____

<u>THIS ATTACHMENT MUST BE COMPLETED AND RETURNED WITH RESPONSE</u>

ATTACHMENT C- SUBCONTRACTOR LICENSING

ITB Number D00107 District 4 – Shoshone Truck Wash

Provide the names, addresses, public works contractor license numbers, and contract amounts of the Contractor or Subcontractor(s) who will do the plumbing, electrical, or HVAC work under the contract.

A. ***Plumbing work by****:* _____ *residing at:*

_____*, whose Idaho Public Works Contractors License No. is:* _____*,*

whose State Plumbing Bureau License No. is: _____*. Amount: $*_____

B. ***Electrical work by****:* _____ *residing at:*

_____*, whose Idaho Public Works Contractors License No. is:* _____*,*

whose State Electrical Bureau License No. is: _____*. Amount: $*_____

C. ***HVAC work by****:* _____ *residing at:*

_____*, whose Idaho Public Works Contractors License No. is:* _____*,*

whose HVAC License No. is: _____*. Amount: $*_____

THIS ATTACHMENT MUST BE COMPLETED AND RETURNED WITH RESPONSE *IF* SUBCONTRACTING

ATTACHMENT D- SIGNATURE PAGE

Idaho Transportation Department
District 4
63 W. Hwy 26
Shoshone, ID 83352

SIGNATURE PAGE for Use with a Submitted ITB Response

Bids and pricing information must be typewritten or handwritten in ink. Originals and copies of the bid must be submitted in accordance with the solicitation documents. Submitted bids must include this signature page with the ORIGINAL signature (ink or electronic digital I.D.) of an individual authorized to bind of the submitting bidder.

NO LIABILITY WILL BE ASSUMED BY THE IDAHO TRANSPORTATION DEPARTMENT FOR A BIDDER'S FAILURE TO OBTAIN THE TERMS AND CONDITIONS AND ANY PROPERLY ISSUED SOLICITATION ADDENDUMS IN A TIMELY MANNER FOR USE IN THE BIDDER'S RESPONSE TO THIS SOLICITATION OR ANY OTHER FAILURE BY THE BIDDER TO CONSIDER THE TERMS, CONDITIONS, AND ANY ADDENDUMS IN THE BIDDER'S RESPONSE TO THE SOLICITATION.

Send your sealed bid package to:

Idaho Transportation Department
ATTN: Lori Royal, Buyer
63 W. Hwy 26
Shoshone, ID 83352

OR

FedEx, UPS, or other Couriers:

Idaho Transportation Department
ATTN: Lori Royal, Buyer
63 W. Hwy 26
Shoshone, ID 83352

This ITB or IBR response is submitted in accordance with all documents and provisions of the specified Bid Number and Title detailed below. By my signature below I accept the terms, conditions, and requirements contained in the solicitation in effect at the time this ITB or IBR was issued, as incorporated by reference into this solicitation. As the undersigned I certify I am authorized to sign and submit this response for the named bidder. I further acknowledge I am responsible for reviewing and acknowledging any addendums that have been issued for this solicitation.

Bid Number: ITB Number D00107 Bid Title: District 4 – Shoshone Truck Wash

Bidder (Company Name): _____

ADDRESS: _____

CITY, ST, ZIP: _____

PHONE: _____ FAX: _____ EMAIL: _____

PUBLIC WORKS LICENSE NO:_____ FEIN:_____

THIS SIGNATURE PAGE MUST BE SIGNED WITH AN ORIGINAL HANDWRITTEN SIGNATURE (PREFERABLY IN BLUE INK) OR AN ELECTRONIC DIGITAL I.D., AND RETURNED WITH YOUR BID FOR YOUR BID TO BE CONSIDERED.

_____ _____
Original Signature (in ink or electronic digital I.D.) Date

_____ _____
Printed Name Title

Idaho Transportation Department

Shoshone Truck Wash Rack

216 Date Street
Shoshone, ID 83352

May 6, 2016

Shawn Webb, Facilities Manager
Idaho Transportation Department
216 Date Street
Shoshone, ID 83352
T: (208) 886-7808
Shawn.webb@itd.idaho.gov

Peter Rockwell, Architect
Glancey Rockwell & Associates
595 S. Americana Blvd.
Boise, ID 83702
T: (208) 345-1718
prockwell@grboise.com

DOCUMENTS 0 -- INTRODUCTORY INFORMATION
00010 - TABLE OF CONTENTS
DIVISION 1 -- GENERAL REQUIREMENTS
01300 - ADMINISTRATIVE REQUIREMENTS
01400 - QUALITY REQUIREMENTS
01780 - CLOSEOUT SUBMITTALS
DIVISION 2 -- SITE CONSTRUCTION - NOT USED
DIVISION 3 -- CONCRETE
03300 - CAST-IN-PLACE CONCRETE
DIVISION 4 -- MASONRY
04200 - UNIT MASONRY ASSEMBLIES
DIVISION 5 -- METALS
05500 - METAL FABRICATIONS
05 5305 - GRATINGS AND STAIR TREADS
DIVISION 6 -- WOOD AND PLASTICS - NOT USED
DIVISION 7 -- THERMAL AND MOISTURE PROTECTION - NOT USED
072100 - BOARD AND BATT INSULATION
DIVISION 8 -- DOORS AND WINDOWS
08 8113 - DOOR, FRAME & HARDWARE
DIVISION 9 -- FINISHES
09 9000 - PAINT
DIVISION 10 -- SPECIALTIES - NOT USED
DIVISION 11 -- EQUIPMENT
11 5300 - EQUIPMENT
DIVISION 12 -- FURNISHINGS - NOT USED
DIVISION 13 -- SPECIAL CONSTRUCTION
133121- PRE-ENGINEERED BUILDINGS
DIVISION 14 -- CONVEYING SYSTEMS - NOT USED
DIVISION 15 -- MECHANICAL - NOT USED
DIVISION 16 -- ELECTRICAL
16010 - ELECTRICAL GENERAL PROVISIONS
16050 - BASIC ELECTRICAL MATERIALS AND METHODS
16060 - GROUNDING AND BONDING
16072 - ELECTRICAL SUPPORTS AND SEISMIC RESTRAINTS
16075 - ELECTRICAL IDENTIFICATION
16120 - CONDUCTORS AND CABLES
16130 - RACEWAYS AND BOXES
16140 - WIRING DEVICES
16410 - ENCLOSED SWITCHES AND CIRCUIT BREAKERS
16442- PANELBOARDS
16511 - INTERIOR LIGHTING
16521 - EXTERIOR LIGHTING

END OF SECTION

SECTION 01 3000
ADMINISTRATIVE REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Preconstruction meeting.

B. Progress meetings.

C. Construction progress schedule.

D. Submittals for review, information, and project closeout.

E. Submittal procedures.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 PRECONSTRUCTION MEETING

A. Owner will schedule a meeting after Notice of Award.

B. Attendance Required:
   1. Owner.
   2. Architect.
   3. Contractor.

C. Agenda:
   1. Execution of Owner- Contractor Agreement.
   2. Designation of personnel representing the parties to Contract. ,
   3. Procedures and processing of field decisions, submittals, substitutions, applications for payments, proposal request, Change Orders, and Contract closeout procedures.
   4. Scheduling.

D. Record minutes and distribute copies within two days after meeting to participants, with copies to Architect, Owner, participants, and those affected by decisions made.

3.02 PROGRESS MEETINGS

A. Attendance Required:
   1. Contractor.
   2. Owner.
   3. Architect.
   4. Contractor's Superintendent.
   5. Major Subcontractors.

B. Agenda:
   1. Review minutes of previous meetings.
   2. Review of Work progress.
   3. Field observations, problems, and decisions.
   4. Identification of problems that impede, or will impede, planned progress.
   5. Review of submittals schedule and status of submittals.
   6. Maintenance of progress schedule.
   7. Corrective measures to regain projected schedules.
   8. Planned progress during succeeding work period.
   9. Maintenance of quality and work standards.
   10. Effect of proposed changes on progress schedule and coordination.
   11. Other business relating to Work.

C. Record minutes and distribute copies within two days after meeting to participants, with copies to Architect, Owner, participants, and those affected by decisions made.

3.03 CONSTRUCTION PROGRESS SCHEDULE

A. Within 10 days after date of the Agreement, submit preliminary schedule .

B. Submit updated schedule with each Application for Payment.

3.04 SUBMITTALS FOR REVIEW

A. When the following are specified in individual sections, submit them for review:
   1. Product data.
   2. Shop drawings.
   3. Samples for selection.

B. Submit to Architect for review for the limited purpose of checking for conformance with information given and the design concept expressed in the contract documents.

C. Samples will be reviewed only for aesthetic, color, or finish selection.

D. After review, provide copies and distribute in accordance with SUBMITTAL PROCEDURES article below and for record documents purposes described in Section 01 7800 - Closeout Submittals.

3.05 SUBMITTALS FOR PROJECT CLOSEOUT

A. Submit Correction Punch List for Substantial Completion.

B. Submit Final Correction Punch List for Substantial Completion.

C. When the following are specified in individual sections, submit them at project closeout:
   1. Project record documents.
   2. Operation and maintenance data.
   3. Warranties.
   4. Bonds.
   5. Other types as indicated.

3.06 NUMBER OF COPIES OF SUBMITTALS

A. Documents for Review:
   1. Small Size Sheets, Not Larger Than 8-1/2 x 11 inches: Submit the number of copies that Contractor requires, plus two copies that will be retained by Architect.
   2. Larger Sheets, Not Larger Than 36 x 48 inches: Submit the number of opaque reproductions that Contractor requires, plus two copies that will be retained by Architect.

B. Samples: Submit the number specified in individual specification sections; one of which will be retained by Architect.
   1. After review, produce duplicates.
   2. Retained samples will not be returned to Contractor unless specifically so stated.

3.07 SUBMITTAL PROCEDURES

A. Shop Drawing Procedures:
   1. Prepare accurate, drawn-to-scale, original shop drawing documentation by interpreting the Contract Documents and coordinating related Work.
   2. Generic, non-project specific information submitted as shop drawings do not meet the requirements for shop drawings.

B. Transmit each submittal with a copy of approved submittal form.

C. Transmit each submittal with approved form.

D. Identify Project, Contractor, Subcontractor or supplier; pertinent drawing and detail number, and specification section number, as appropriate on each copy.

E. Apply Contractor's stamp, signed or initialed certifying that review, approval, verification of Products required, field dimensions, adjacent construction Work, and coordination of information is in accordance with the requirements of the Work and Contract Documents.

F. Schedule submittals to expedite the Project, and coordinate submission of related items.

G. For each submittal for review, allow 15 days excluding delivery time to and from the Contractor.

H. Identify variations from Contract Documents and Product or system limitations that may be detrimental to successful performance of the completed Work.

I. Provide space for Contractor and Architect review stamps.

J. When revised for resubmission, identify all changes made since previous submission.

K. Distribute reviewed submittals as appropriate. Instruct parties to promptly report any inability to comply with requirements.

L. Submittals not requested will not be recognized or processed.

END OF SECTION

SECTION 01 4000

QUALITY REQUIREMENTS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Control of installation.

B. Testing and inspection agencies and services.

C. Control of installation.

D. Defect Assessment.

1.02 TESTING AND INSPECTION AGENCIES AND SERVICES

A. Owner will employ services of an independent testing agency to perform certain specified testing.

B. Employment of agency in no way relieves Contractor of obligation to perform Work in accordance with requirements of Contract Documents.

PART 2 PRODUCTS - NOT USED

PART 3 EXECUTION

3.01 CONTROL OF INSTALLATION

A. Monitor quality control over suppliers, manufacturers, products, services, site conditions, and workmanship, to produce Work of specified quality.

B. Comply with manufacturers' instructions, including each step in sequence.

C. Should manufacturers' instructions conflict with Contract Documents, request clarification from Architect before proceeding.

D. Comply with specified standards as minimum quality for the Work except where more stringent tolerances, codes, or specified requirements indicate higher standards or more precise workmanship.

E. Have Work performed by persons qualified to produce required and specified quality.

F. Verify that field measurements are as indicated on shop drawings or as instructed by the manufacturer.

G. Secure products in place with positive anchorage devices designed and sized to withstand stresses, vibration, physical distortion, and disfigurement.

3.02 TESTING AND INSPECTION

A. Testing Agency Duties:
   1. Provide qualified personnel at site. Cooperate with Architect and Contractor in performance of services.
   2. Perform specified sampling and testing of products in accordance with specified standards.
   3. Ascertain compliance of materials and mixes with requirements of Contract Documents.
   4. Promptly notify Architect and Contractor of observed irregularities or non-conformance of Work or products.
   5. Perform additional tests and inspections required by Architect.
   6. Submit reports of all tests/inspections specified.

B. Limits on Testing/Inspection Agency Authority:
   1. Agency may not release, revoke, alter, or enlarge on requirements of Contract Documents.
   2. Agency may not approve or accept any portion of the Work.
   3. Agency may not assume any duties of Contractor.
   4. Agency has no authority to stop the Work.

C. Contractor Responsibilities:
   1. Deliver to agency at designated location, adequate samples of materials proposed to be used that require testing, along with proposed mix designs.
   2. Cooperate with laboratory personnel, and provide access to the Work and to manufacturers' facilities.

3. Provide incidental labor and facilities:
    a. To provide access to Work to be tested/inspected.
    b. To obtain and handle samples at the site or at source of Products to be tested/inspected.
    c. To facilitate tests/inspections.
    d. To provide storage and curing of test samples.

D. Re-testing required because of non-conformance to specified requirements shall be performed by the same agency on instructions by Architect.

E. Re-testing required because of non-conformance to specified requirements shall be paid for by Contractor.

3.03 DEFECT ASSESSMENT

A. Replace Work or portions of the Work not conforming to specified requirements.

END OF SECTION

SECTION 01 7800

CLOSEOUT SUBMITTALS

PART 1 GENERAL

1.01 SECTION INCLUDES

A. Project Record Documents.

B. Operation and Maintenance Data.

C. Warranties and bonds.

PART 3 EXECUTION

2.01 PROJECT RECORD DOCUMENTS

A. Maintain on site one set of the following record documents; record actual revisions to the Work:
    1. Drawings.
    2. Addenda.
    3. Change Orders and other modifications to the Contract.

B. Ensure entries are complete and accurate, enabling future reference by Owner.

C. Store record documents separate from documents used for construction.

D. Record information concurrent with construction progress.

E. Record Drawings : Legibly mark each item to record actual construction including:
    1. Measured horizontal and vertical locations of underground utilities and appurtenances, referenced to permanent surface improvements.
    2. Field changes of dimension and detail.
    3. Details not on original Contract drawings.

2.02 OPERATION AND MAINTENANCE DATA

A. Source Data: For each product or system, list names, addresses and telephone numbers of Subcontractors and suppliers, including local source of supplies and replacement parts.

B. Product Data: Mark each sheet to clearly identify specific products and component parts, and data applicable to installation. Delete inapplicable information.

C. Drawings: Supplement product data to illustrate relations of component parts of equipment and systems, to show control and flow diagrams. Do not use Project Record Documents as maintenance drawings.

2.03 OPERATION AND MAINTENANCE DATA FOR EQUIPMENT AND SYSTEMS

A. For Each Item of Equipment and Each System:
    1. Description of unit or system, and component parts.
    2. Identify function, normal operating characteristics, and limiting conditions.
    3. Include performance curves, with engineering data and tests.
    4. Complete nomenclature and model number of replaceable parts.

B. Where additional instructions are required, beyond the manufacturer's standard printed instructions, have instructions prepared by personnel experienced in the operation and maintenance of the specific products.

C. Operating Procedures: Include start-up, break-in, and routine normal operating instructions and sequences. Include regulation, control, stopping, shut-down, and emergency instructions. Include summer, winter, and any special operating instructions.

D. Maintenance Requirements: Include routine procedures and guide for preventative maintenance and troubleshooting; disassembly, repair, and reassembly instructions; and alignment, adjusting, balancing, and checking instructions.

E. Include manufacturer's printed operation and maintenance instructions.

F. Include sequence of operation by controls manufacturer.

G. Provide original manufacturer's parts list, illustrations, assembly drawings, and diagrams required for maintenance.

H. Additional Requirements: As specified in individual product specification sections.

2.04 ASSEMBLY OF OPERATION AND MAINTENANCE MANUALS

A. Assemble operation and maintenance data into durable manuals for Owner's personnel use, with data arranged in the same sequence as, and identified by, the specification sections.

B. Where systems involve more than one specification section, provide separate tabbed divider for each system.

C. Prepare instructions and data by personnel experienced in maintenance and operation of described products.

D. Prepare data in the form of an instructional manual.

E. Binders: Commercial quality, 8-1/2 by 11 inch three D side ring binders with durable plastic covers; 2 inch maximum ring size. When multiple binders are used, correlate data into related consistent groupings.

F. Cover: Identify each binder with typed or printed title OPERATION AND MAINTENANCE INSTRUCTIONS; identify title of Project; identify subject matter of contents.

G. Project Directory: Title and address of Project; names, addresses, and telephone numbers of Architect , Consultants, Contractor and subcontractors, with names of responsible parties.

H. Tables of Contents: List every item separated by a divider, using the same identification as on the divider tab; where multiple volumes are required, include all volumes Tables of Contents in each volume, with the current volume clearly identified.

I. Dividers: Provide tabbed dividers for each separate product and system; identify the contents on the divider tab; immediately following the divider tab include a description of product and major component parts of equipment.

J. Text: Manufacturer's printed data, or typewritten data on 24 pound paper.

K. Drawings: Provide with reinforced punched binder tab. Bind in with text; fold larger drawings to size of text pages.

2.05 WARRANTIES AND BONDS

A. Obtain warranties and bonds, executed in duplicate by responsible Subcontractors, suppliers, and manufacturers, within 10 days after completion of the applicable item of work. Except for items put into use with Owner's permission, leave date of beginning of time of warranty until Date of Substantial completion is determined.

B. Verify that documents are in proper form, contain full information, and are notarized.

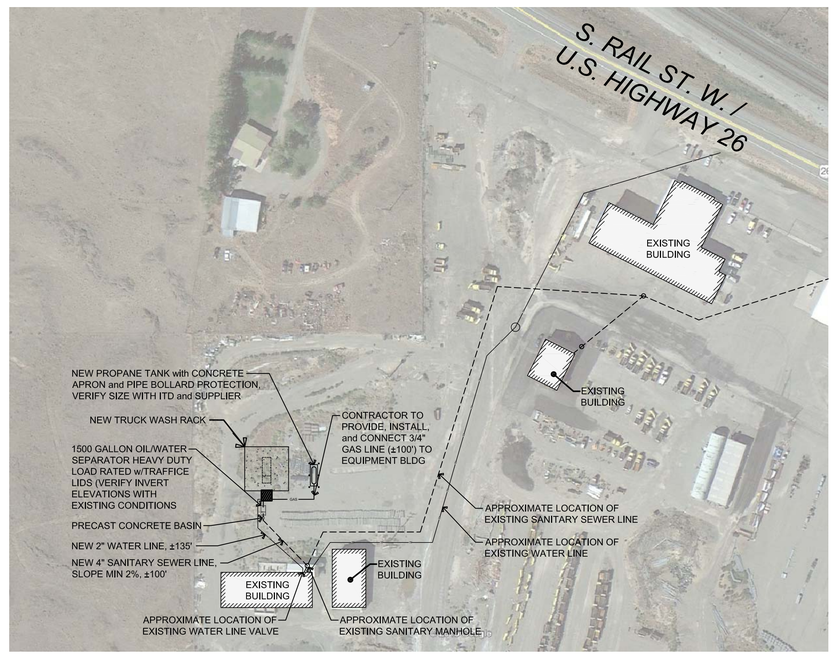
C. Co-execute submittals when required.

D. Retain warranties and bonds until time specified for submittal.

END OF SECTION

IDAHO DEPARTMENT OF TRANSPORTATION
SHOSHONE - TRUCK WASH RACK
U.S. HIGHWAY 26 (SOUTH RAIL STREET WEST)
SHOSHONE, IDAHO 83352
JANUARY 29, 2016

Glancey ◆ Rockwell & Associates
Architecture • Planning
595 S Americana Boulevard Boise, Idaho 83702
(208) 345-0566 (208) 345-1718 Fax (208) 387-0889
office@grboise.com



NORTH

ARCHITECTURAL SITE PLAN
SCALE N.T.S.

GENERAL NOTES:

1. ELEVATIONS GIVEN ARE RELATIVE, BASED ON ESTABLISHING THE BENCHMARK ELEVATION ON SITE. ELEVATION 100'-0" IS 8" ABOVE BUILT-UP COMPACT PAD PROVIDED BY ITD.
2. WASH PAD AND BUILDING LOCATION IS APPROXIMATE. CORNERS WILL BE LOCATED AND STAKED BY ITD PRIOR TO CONSTRUCTION.
3. ITD WILL PROVIDE COMPACT STRUCTURAL GRAVEL PAD FOR CONTRACTORS USE. ITD WILL BUILD AND COMPLETE FINAL GRADE OF COMPACT GRAVEL AROUND THE WASH RACK PROJECT.
4. CONTRACTOR IS TO PROVIDE ALL TRENCHING, BEDDING, AND BACKFILL. IN ADDITION TO REPAIR OF PAVING WHERE CROSSED BY ANY UTILITY TRENCHING.
5. COORDINATE STAGING AND ACCESS TO SITE WITH ITD DISTRICT AND ITD PROJECT MANAGER.

UTILITY NOTES:

SANITARY SEWER:

1. ALL CONSTRUCTION, MATERIALS, APPURTENANCES, AND TESTING SHALL COMPLY WITH THE REQUIREMENTS OF THE 2007 EDITION OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPWC), UNLESS SPECIFICALLY MODIFIED BY THESE CONSTRUCTION DOUCMENTS.
2. ALL SEWER PIPE AND FITTINGS WITH COVER GREATER THAN 3 FEET, SHALL BE POLYVINYL CHLORIDE (PVC) CONFORMING TO THE REQUIREMENTS OF ASTM D-3034, SDR-35 FOR SIZES 4-INCH THROUGH 15-INCH.

WATER SYSTEM:

1. ALL CONSTRUCTION, MATERIALS, APPURTENANCES AND TESTING SHALL COMPLY WITH THE REQUIREMENTS OF THE 2007 EDITION OF THE IDAHO STANDARDS FOR PUBLIC WORKS CONSTRUCTION (ISPWC), UNLESS SPECIFICALLY MODIFIED BY THESE CONSTRUCTION DOCUMENTS.
2. INDIVIDUAL WATER SERVICE CONNECTIONS SHALL BE POLYETHYLENE PIPE CONFORMING TO AWWA C-901, CLASS 200, SDR-7.3. SERVICES SHALL BE CONSTRUCTED CONFORMING TO ISPWC DRAWINGS SD-401 OR SD-402, EXCEPT THAT THE LID SHALL CONTAIN A "TOUCH READ" HOLE.

BEDDING AND BACKFILLING:

1. ALL SEWER AND WATER SERVICES SHALL BE BEDDED PER THE REQUIREMENTS OF TYPE 1 BEDDING, EXCEPT THAT BEDDING MATERIAL SHALL BE SELECT 3/4-INCH MAXIMUM CRUSHED GRAVEL CHIPS.
2. ALL BEDDING SHALL BE THOROUGHLY SHOVEL-SLICED UNDER THE PIPE, WITH A MINIMUM BEDDING DEPTH OF 6" UNDER THE PIPE AND A MINIMUM COVER OF 12" OF CHIPS OVER THE TOP OF THE PIPE.
3. COMPACTION OF BEDDING AND BACKFILL SHALL COMPLY WITH ISPWC SPECIFICATIONS.

SHEET INDEX

ARCHITECTURAL:
- A-0.1 ARCHITECTURAL SITE PLAN
- A-1.1 WASH RACK PLANS
- A-1.2 WASH RACK ROOF PLAN & SCHEDULES
- A-2.1 EXTERIOR ELEVATIONS
- A-3.1 BUILDING SECTIONS
- A-3.2 DETAILS

STRUCTURAL:
- S-0.1 STRUCTURAL GENERAL NOTES
- S-0.2 STRUCTURAL DETAILS

MECHANICAL:
- M-1.1 WASH RACK MECHANICAL PLANS and SCHEDULES

ELECTRICAL:
- E-0.0 ELECTRICAL COVER SHEET
- E-1.0 ELECTRICAL SITE PLAN
- E-2.0LP ELECTRICAL LIGHTING and POWER PLANS
- E-3.0 ELECTRICAL DETAILS
- E-3.1 ELECTRICAL SCHEDULES
- E-3.2 ENERGY COMPLIANCE REPORT

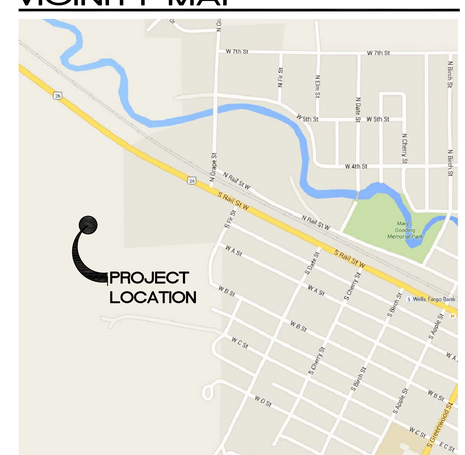
DESIGN TEAM

ARCHITECT:
GLANCEY ROCKWELL & ASSOCIATES
595 SOUTH AMERICANA BOULEVARD
BOISE, IDAHO 83702
PHONE: 208.345.0566
ATTN.: PETER ROCKWELL - prockwell@grboise.com

STRUCTURAL ENGINEER:
STAPLEY ENGINEERING
8701 WEST HACKAMORE DRIVE
BOISE, ID 83709
PHONE: 208.375.8240
ATTN.: JAN WELCH - janw@stapley.net

ELECTRICAL ENGINEER:
ELECTRICAL ENGINEERING CONSULTANTS, INC.
800 SOUTH INDUSTRY WAY, SUITE 305
MERIDIAN, IDAHO 83642
PHONE: 208.378.4450
ATTN.: KEITH ADAMS - kadams@e2co.com

VICINITY MAP



REVISIONS

DESCRIPTION	DATE

OWNER

Idaho Department of Transportation
Shoshone - Truck Wash
U.S. Highway 26 (South Rail Street West)
Shoshone, Lincoln County, Idaho 83352

COPYRIGHT 2016

Glancey ◆ Rockwell & Associates
Architecture • Planning
595 S Americana Boulevard Boise, Idaho 83702
(208) 345-0566 (208) 345-1718 Fax (208) 387-0889
office@grboise.com

Licensed Architect AR-1684
5-17-2016
Peter M. Rockwell
State of Idaho

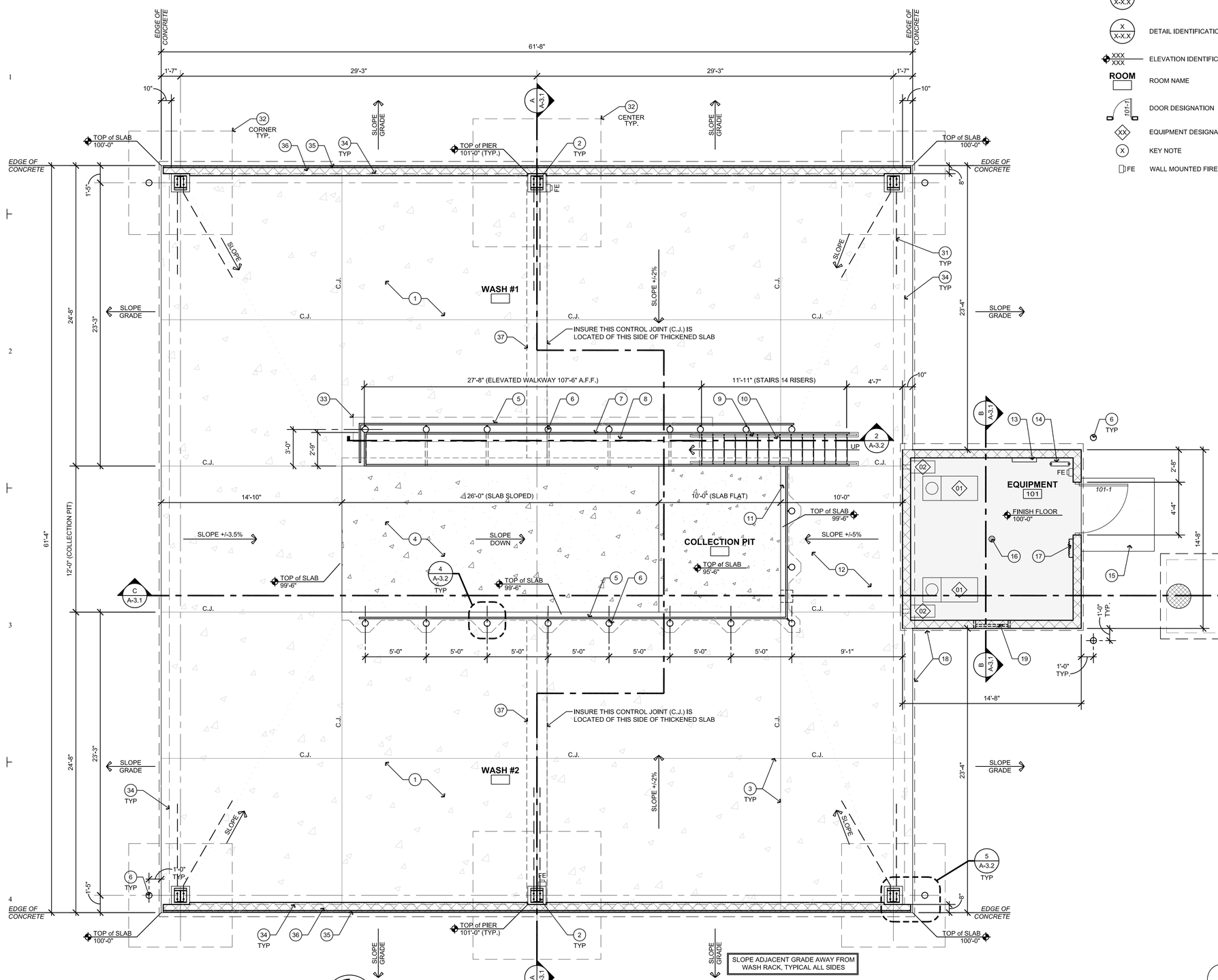
SHEET DATA

DRAWN BY:	BE
CHECKED BY:	PR
SCALE:	AS NOTED
DATE:	05.17.16
PROJECT #:	15039

SHEET NUMBER

A-0.1

SCALES ARE ACCURATE FOR 24x36 PRINTED SHEETS



WASH PAD PLAN

SCALE 1/4" = 1'-0"

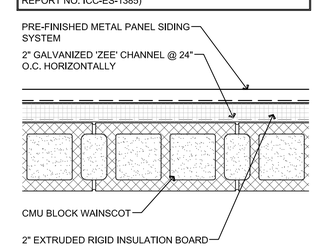
SYMBOL LEGEND

- BUILDING SECTION (X / X-X.X)
- DETAIL IDENTIFICATION (X / X-X.X)
- ELEVATION IDENTIFICATION (XXX / XXX)
- ROOM NAME (ROOM)
- DOOR DESIGNATION (101-1)
- EQUIPMENT DESIGNATION, SEE SHEET A-1.2 (XX)
- KEY NOTE (X)
- WALL MOUNTED FIRE EXTINGUISHER (FE)

KEY NOTES

1. CONCRETE SLAB w/BROOM FINISH, SLOPE AS NOTED (SEE DETAILS FOR REINFORCING)
2. PRE-ENGINEERED BUILDING STRUCTURE on CONCRETE PIER, SEE PIER DETAIL 5/A-3.2
3. SAWCUT or FORMED CONTROL JOINTS (TYPICAL), 1/3 SLAB THICKNESS, FILL w/CONCRETE SLAB JOINT SEALER, SEALANT TO BE RATED FOR EXTERIOR WET CONDITIONS and RESISTANT TO ROAD BASED CHEMICALS (GAS, OIL, DIESEL, GREASE, SALT, ETC.)
4. ISOLATED SLOPED SLAB FROM COLLECTION PIT and FOUNDATION WALLS
5. GALVANIZED STEEL PIPE GUARDRAIL ANCHOR TO BOLLARDS (SEE DETAILS)
6. GALVANIZED 6" STEEL PIPE BOLLARD, SEE DETAIL 1/A-1.1
7. GALVANIZED STEEL PIPE GUARDRAIL (SEE DETAILS)
8. GALVANIZED ELEVATED WALKWAY with 'BAR GRATING' PLANKING
9. GALVANIZED STEEL PIPE HANDRAIL (SEE DETAILS)
10. GALVANIZED STEEL STAIR STRUCTURE with 'BAR GRATING' STAIR TREADS
11. COLLECTION PIT OUTLET (SEE DETAILS)
12. PROVIDE HEAVY BROOM FINISH @ THIS SLAB LOCATION ONLY
13. ELECTRICAL PANEL, SEE ELECTRICAL
14. MAIN WATER SUPPLY RISER, SEE PLUMBING
15. 6'x6'x4" THICK CONCRETE APRON w/BROOM FINISH
16. FLOOR DRAIN, SEE PLUMBING
17. ELECTRIC WALL HEATER, SEE MECHANICAL
18. LINE OF ROOF ABOVE
19. WALL LOUVER, SEE MECHANICAL
20. 1500 GALLON PRECAST CONCRETE SAND/OIL SEPARATOR w/TRAFFIC RATED MANHOLE LIDS and LEVELING RINGS, SEE SITE PLAN
21. PRECAST CONCRETE BASIN w/TRAFFIC RATED MANHOLE LIDS and LEVELING RINGS, SEE SITE PLAN
22. METAL PANEL ROOFING SYSTEM
23. METAL RIDGE CAP
24. LINE OF COLLECTION PIT BELOW
25. LINE OF STRUCTURE BELOW
26. METAL BOX GUTTER
27. METAL SQUARE DOWNSPOUT
28. PRESSURE WASHER FLUE w/METAL PIPE BOOT
29. PLUMBING VENT w/PIPE BOOT
30. METAL RAKE FLASHING
31. HAIRPIN @ EACH COLUMN, SEE DETAIL 6/A-3.2
32. CONCRETE FOOTING, SEE DETAIL 5/A-3.2, 8'-6"x8'-6"x1'-0" THICK @ CORNERS, 10'-6"x10'-6"x1'-4" THICK @ CENTER
33. 2'-0" WIDE x 4'-0" DEEP x 30'-0" LONG CONTINUOUS CONCRETE FOOTING
34. PERIMETER GRADE BEAM, SEE SHEET A-3.1
35. 2" EXTRUDED RIGID INSULATION (R-5.6 MIN.) ADHERE TO EXTERIOR FACE OF CMU WAINSCOT
36. CMU WAINSCOT (7'-4" A.F.F.), NOTCH AROUND PRE-ENGINEERED BUILDING STRUCTURE PIER SYSTEM, AS NEEDED
37. 1'-8"x 1'-0" THICKENED SLAB FOR TIE BARS

METAL PANEL and 'ZEE' CHANNEL ANCHORING:
METAL PANEL - ATTACHED w/#12 'TEK' SCREWS @ 12" O.C. AT ALL 'ZEE' CHANNELS
'ZEE' CHANNEL - INSTALL w/'HILTI' KWIK-BOLTS 1/2" DIAMETER EXPANSION ANCHOR @ 16" O.C. with 2-1/4" EMBED (ICC REPORT NO. ICC-ES-1385)



1 WALL ASSEMBLY DETAIL

SCALE N.T.S.

REVISIONS

DESCRIPTION	DATE

OWNER

Idaho Department of Transportation

Shoshone - Truck Wash
U.S. Highway 26 (South Rail Street West)
Shoshone, Lincoln County, Idaho 83352

COPYRIGHT 2016

Glancey Rockwell & Associates
Architecture • Planning
595 S Americana Boulevard Boise, Idaho 83702
(208) 345-0566 (208) 345-1718 Fax (208) 387-0889
office@grboise.com

Licensed Architect 2-4684
5-17-2016
Peter H. Rockwell
State of Idaho

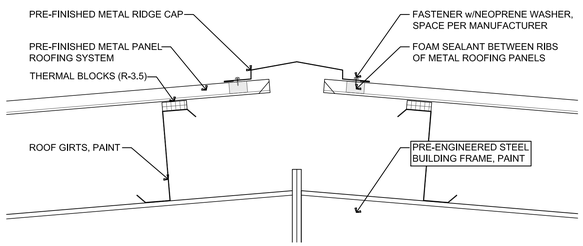
SHEET DATA

DRAWN BY:	BE
CHECKED BY:	PR
SCALE:	AS NOTED
DATE:	05.17.16
PROJECT #:	15039

SHEET NUMBER

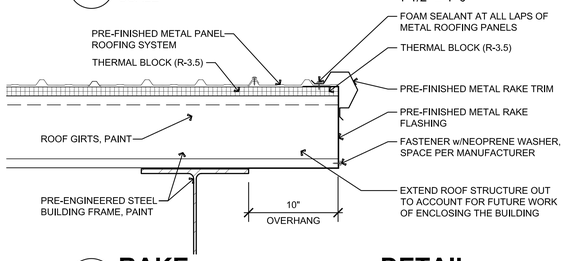
A-1.1

SCALES ARE ACCURATE FOR 24x36 PRINTED SHEETS



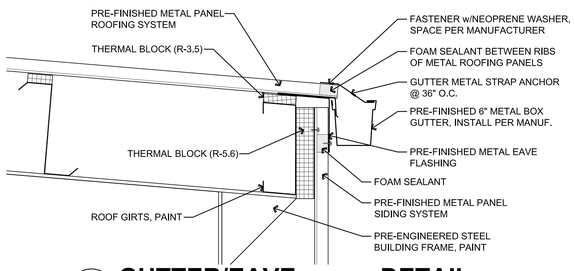
1 RIDGE FLASHING DETAIL

SCALE 1-1/2" = 1'-0"



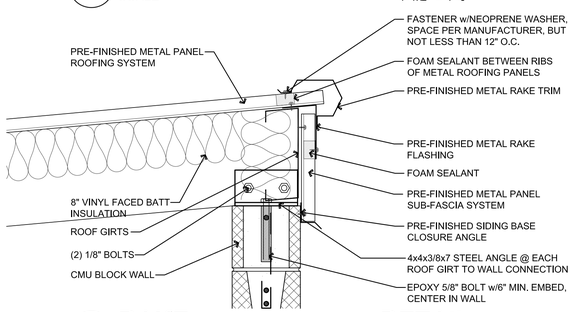
2 RAKE DETAIL

SCALE 1-1/2" = 1'-0"



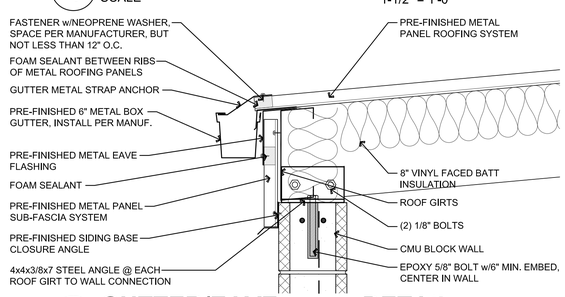
3 GUTTER/EAVE DETAIL

SCALE 1-1/2" = 1'-0"



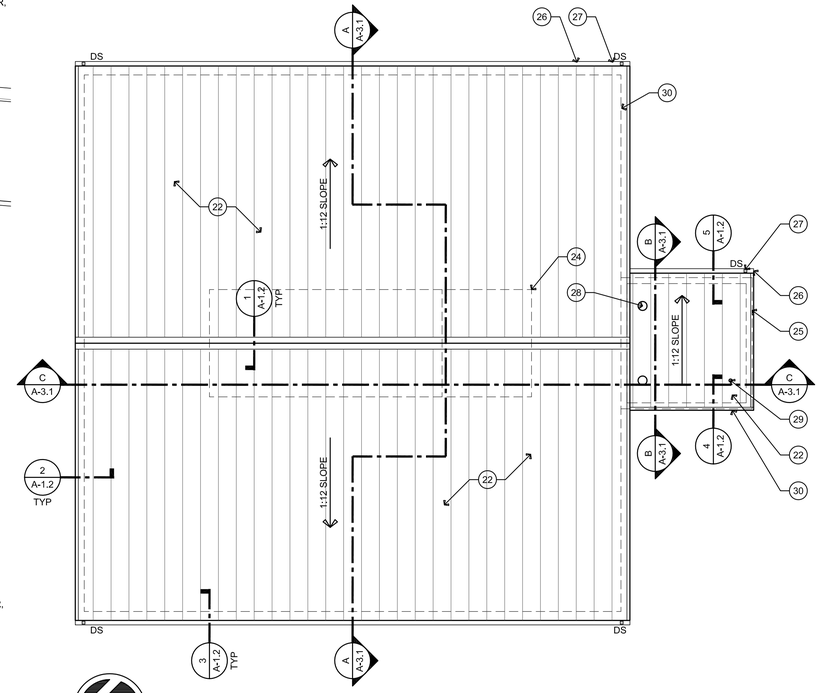
4 RAKE DETAIL

SCALE 1-1/2" = 1'-0"



5 GUTTER/EAVE DETAIL

SCALE 1-1/2" = 1'-0"



NORTH

WASH PAD ROOF PLAN

SCALE 1/4" = 1'-0"

SYMBOL LEGEND

X / X-X.X	BUILDING SECTION
X / X-X.X	DETAIL IDENTIFICATION
XXX / XXX	ELEVATION IDENTIFICATION
ROOM	ROOM NAME
101-1	DOOR DESIGNATION
XX	EQUIPMENT DESIGNATION, SEE SHEET A-1.2
X	KEY NOTE
FE	WALL MOUNTED FIRE EXTINGUISHER

KEY NOTES

#	
1	CONCRETE SLAB w/BROOM FINISH, SLOPE AS NOTED (SEE DETAILS FOR REINFORCING)
2	PRE-ENGINEERED BUILDING STRUCTURE on CONCRETE PIER, SEE PIER DETAIL 5/A-3.2
3	SAWCUT or FORMED CONTROL JOINTS (TYPICAL), 1/3 SLAB THICKNESS, FILL w/CONCRETE SLAB JOINT SEALER, SEALANT TO BE RATED FOR EXTERIOR WET CONDITIONS and RESISTANT TO ROAD BASED CHEMICALS (GAS, OIL, DIESEL, GREASE, SALT, ETC.)
4	ISOLATED SLOPED SLAB FROM COLLECTION PIT and FOUNDATION WALLS
5	GALVANIZED STEEL PIPE GUARDRAIL ANCHOR TO BOLLARDS (SEE DETAILS)
6	GALVANIZED 6" STEEL PIPE BOLLARD. SEE DETAIL 1/A-1.1
7	GALVANIZED STEEL PIPE GUARDRAIL (SEE DETAILS)
8	GALVANIZED ELEVATED WALKWAY with 'BAR GRATING' PLANKING
9	GALVANIZED STEEL PIPE HANDRAIL (SEE DETAILS)
10	GALVANIZED STEEL STAIR STRUCTURE with 'BAR GRATING' STAIR TREADS
11	COLLECTION PIT OUTLET (SEE DETAILS)
12	PROVIDE HEAVY BROOM FINISH @ THIS SLAB LOCATION ONLY
13	ELECTRICAL PANEL, SEE ELECTRICAL
14	MAIN WATER SUPPLY RISER, SEE PLUMBING
15	6'x6'x4" THICK CONCRETE APRON w/BROOM FINISH
16	FLOOR DRAIN, SEE PLUMBING
17	ELECTRIC WALL HEATER, SEE MECHANICAL
18	LINE OF ROOF ABOVE
19	WALL LOUVER, SEE MECHANICAL
20	1500 GALLON PRECAST CONCRETE SAND/OIL SEPARATOR w/TRAFFIC RATED MANHOLE LIDS and LEVELING RINGS, SEE SITE PLAN
21	PRECAST CONCRETE BASIN w/TRAFFIC RATED MANHOLE LIDS and LEVELING RINGS, SEE SITE PLAN
22	METAL PANEL ROOFING SYSTEM
23	METAL RIDGE CAP
24	LINE OF COLLECTION PIT BELOW
25	LINE OF STRUCTURE BELOW
26	METAL BOX GUTTER
27	METAL SQUARE DOWNSPOUT
28	PRESSURE WASHER FLUE w/METAL PIPE BOOT
29	PLUMBING VENT w/PIPE BOOT
30	METAL RAKE FLASHING
31	HAIRPIN @ EACH COLUMN, SEE DETAIL 6/A-3.2
32	CONCRETE FOOTING, SEE DETAIL 5/A-3.2, 8'-6"x8'-6"x1'-0" THICK @ CORNERS, 10'-6"x10'-6"x1'-4" THICK @ CENTER
33	2'-0" WIDE x 4'-0" DEEP x 30'-0" LONG CONTINUOUS CONCRETE FOOTING
34	PERIMETER GRADE BEAM, SEE SHEET A-3.1
35	2" EXTRUDED RIGID INSULATION (R-5.6 MIN.) ADHERE TO EXTERIOR FACE OF CMU WAINSCOT
36	CMU WAINSCOT (7'-4" A.F.F.), NOTCH AROUND PRE-ENGINEERED BUILDING STRUCTURE PIER SYSTEM, AS NEEDED
37	1'-8"x 1'-0" THICKENED SLAB FOR TIE BARS

DOOR SCHEDULE

DOOR NUMBER	ROOM NAME	SIZE	DOOR TYPE	DOOR MATERIAL	DOOR FINISH	FRAME MATERIAL	FRAME FINISH	FRAME DETAILS HEAD/JAMB	FRAME DETAILS SILL	RATING	HARDWARE GROUP	NOTES
101-1	EQUIPMENT ROOM	1-3/4"x4'-0"x7'-0"	--	IM	P	HM	P	--	--	--	001	4" MASONRY HEAD
* DOOR SCHEDULE ABBREVIATION LEGEND												
HM = HOLLOW METAL DOOR or FRAME			P = PAINT									

DOOR HARDWARE SCHEDULE

QTY.	DESCRIPTION
HARDWARE GROUP #001	
4 EACH	HINGES, NRP
1 EACH	LEVER LOCKSET ENTRY F82
1 EACH	CLOSER w/INTEGRAL STOP & HOLD OPEN
1 SET	WEATHER STRIPS

EQUIPMENT SCHEDULE

IDENTIFICATION	DESCRIPTION	MANUFACTURER	MODEL	WATER	GAS	ELECTRICAL VOLTS	ELECTRICAL AMPS	ELECTRICAL PHASE	DIMENSIONS W	DIMENSIONS D	DIMENSIONS H	FEATURES	NOTES
01	GAS FIRED HOT WATER PRESSURE WASHER	HOTSY	1812SS	FRESH	NAT.	230	42	1	31"	51"	53.5"	STAINLESS STEEL CONSTRUCTION, FLOW CAPACITY 6.0 GPM, PRESSURE 2,500 PSI, POWER/ENGINE 10HP BELT DRIVEN, ADJUSTABLE TEMPERATURE CONTROL, FULL PRESSURE INLET DETERGENT/CHEMICAL INJECTION with STAINLESS METERING VALVE & SOAP SOLENOID, 3/8"x100' 5800 PSI 250 DEGREE RATED HOSE, INSULATED TRIGGER GUN and WAND, QUICK DISCONNECT STAINLESS STEEL NOZZLES, BURNER INPUT 720,450 BTU/HR, EXTERIOR GRADE REMOTE CONTROL BOX	COORDINATED ALL UTILITY LOCATIONS and TYPES WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN
02	MEDIUM PRESSURE STAINLESS STEEL SPRING DRIVEN HOSE REEL	REELCRAFT	D9200 OMS-S	----	--	--	--	--	--	--	--	STAINLESS STEEL CONSTRUCTION, PRESSURE 3,000 PSI, HOSE LENGTH 100', WALL MOUNTED INSTALLATION, STAINLESS LATCH PARTS, MULTI-POSITION GUIDE ARM, PERMANENTLY FACTORY LUBRICATED, VIBRATION-PROOF SELF LOCKING FASTENERS, (2) REELCRAFT REEL HOSE GUIDE ASSEMBLIES (INTERIOR & EXTERIOR LOCATIONS)	VERIFY INTERIOR REEL LOCATIONS WITH WASH EQUIPMENT LOCATION, CONFIRM HOSE DIAMETER and LENGTH
* WITH PRIOR REVIEW AND APPROVAL FROM THE ARCHITECT and OWNER EQUIVALENT EQUIPMENT IS ACCEPTABLE													

SCALES ARE ACCURATE FOR 24x36 PRINTED SHEETS

REVISIONS

DESCRIPTION	DATE

OWNER

Idaho Department of Transportation
Shoshone - Truck Wash
U.S. Highway 26 (South Rail Street West)
Shoshone, Lincoln County, Idaho 83352

COPYRIGHT 2016

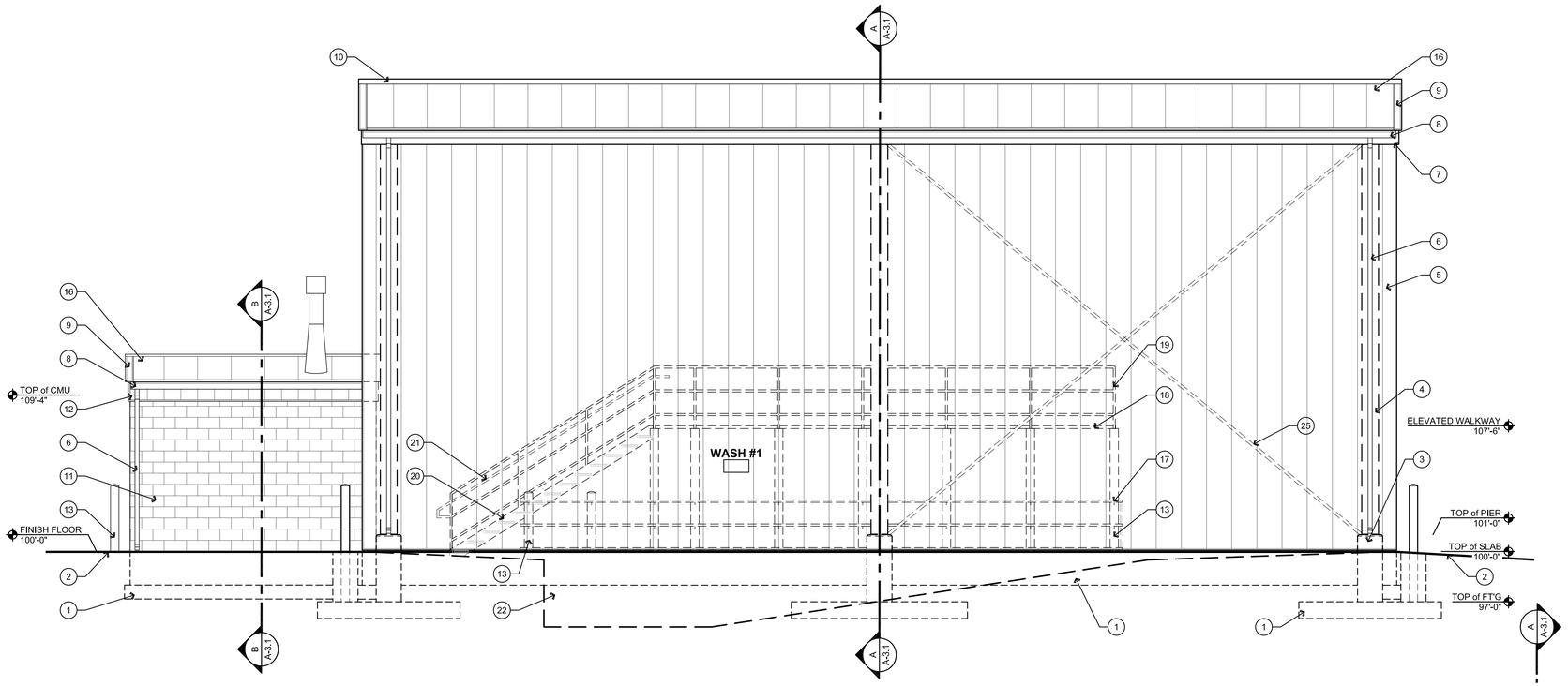
Glancey◆ Rockwell & Associates
Architecture • Planning
595 S Americana Boulevard Boise, Idaho 83702
(208) 345-0566 (208) 345-1718 Fax (208) 387-0889
office@grboise.com

SHEET DATA

DRAWN BY:	BE
CHECKED BY:	PR
SCALE:	AS NOTED
DATE:	05.17.16
PROJECT #:	15039

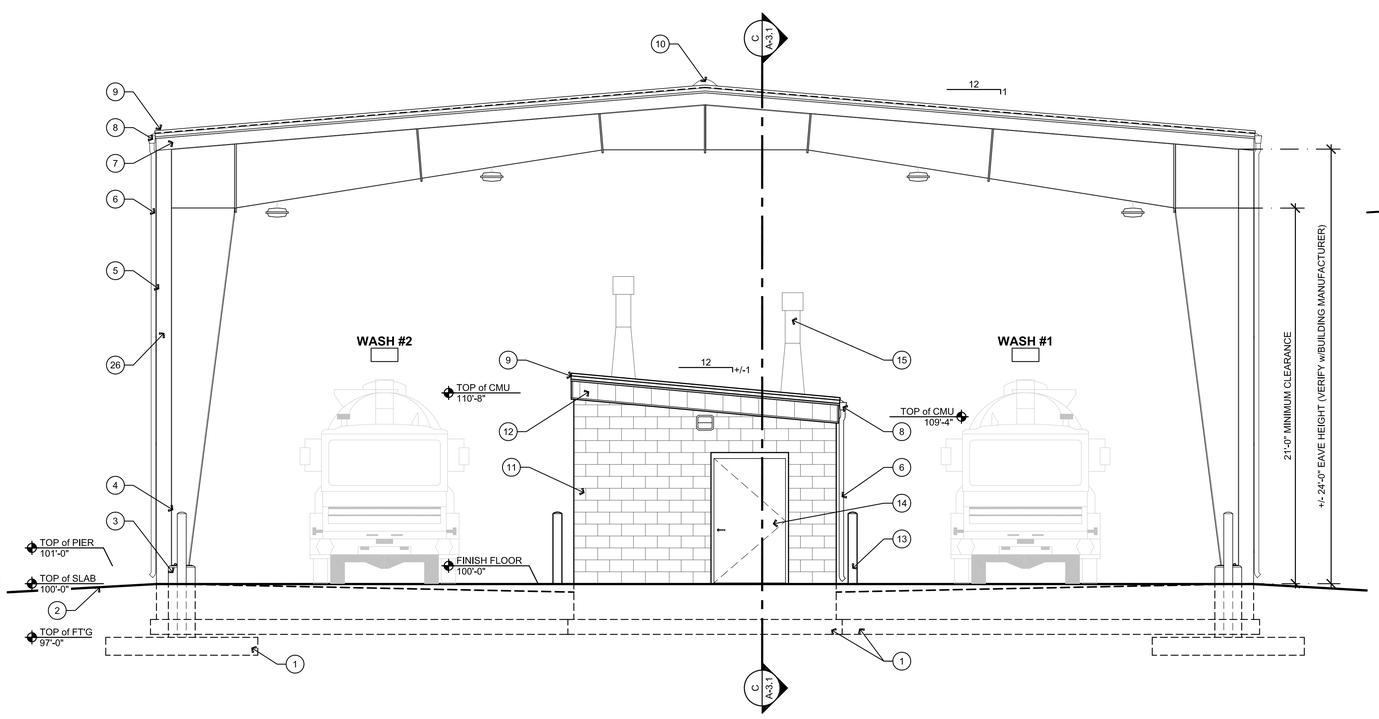
SHEET NUMBER

A-1.2



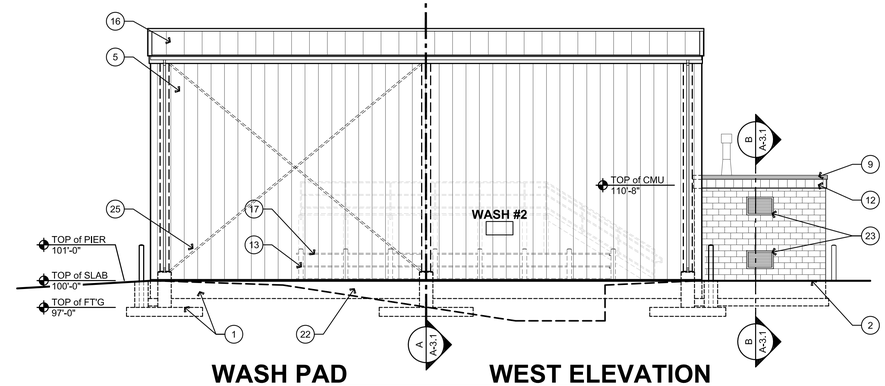
WASH PAD EAST ELEVATION

SCALE 1/4" = 1'-0"



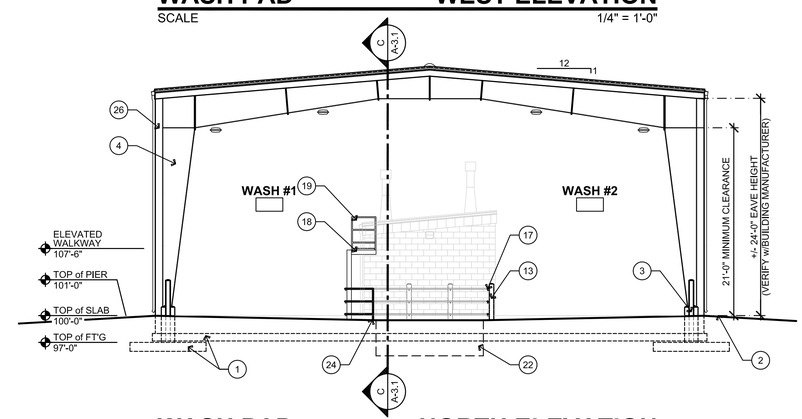
WASH PAD SOUTH ELEVATION

SCALE 1/4" = 1'-0"



WASH PAD WEST ELEVATION

SCALE 1/4" = 1'-0"



WASH PAD NORTH ELEVATION

SCALE 1/4" = 1'-0"

SCALES ARE ACCURATE FOR 24x36 PRINTED SHEETS

KEY NOTES

#	
1	FOUNDATION SYSTEM, SEE DETAILS
2	FINISH GRADE, SLOPE PER SHEET A-0.1
3	CONCRETE PIER with 1" CHAMFER, SACK FINISH
4	PRE-ENGINEERED METAL BUILDING STRUCTURE, PAINT MAIN FRAME and GIRTS
5	PRE-FINISHED METAL PANEL SIDING SYSTEM w/ALL ASSOCIATED BASE FLASHING, TRIM, etc.
6	PRE-FINISHED 4"x4" SQUARE METAL DOWNSPOUT
7	PRE-FINISHED METAL EAVE FLASHING
8	PRE-FINISHED 6" METAL BOX GUTTER
9	PRE-FINISHED METAL RAKE FLASHING
10	PRE-FINISHED METAL RIGID CAP
11	STANDARD CMU BLOCK, PAINT, FINISH WITH (2) COATS MASONRY SEALER
12	PRE-FINISHED METAL PANEL SUB-FASCIA SYSTEM w/ALL ASSOCIATED BASE FLASHING, TRIM, etc.
13	6" PIPE BOLLARD (GALVANIZED) , SEE DETAIL 1/A-1.1
14	DOOR and FRAME, SEE DOOR SCHEDULE
15	PRESSURE WASHER FLUE w/METAL PIPE BOOT
16	PRE-FINISHED METAL PANEL ROOFING SYSTEM
17	GALVANIZED STEEL PIPE GUARDRAIL ANCHOR TO BOLLARDS
18	GALVANIZED ELEVATED WALKWAY with BAR-GRATING
19	GALVANIZED STEEL PIPE GUARDRAIL
20	GALVANIZED STEEL STAIR STRUCTURE with BAR-GRATING STAIR TREADS
21	GALVANIZED STEEL PIPE HANDRAIL
22	COLLECTION PIT BEYOND
23	PRE-FINISHED WALL LOUVER
24	GUARDRAIL PIPE SLEEVE IN SLAB @ THIS LOCATION ONLY
25	CROSS BRACING PER BUILDING MANUFACTURER, PAINT
26	PROVIDE PRE-FINISHED CORNER TRIM TO COVER GIRT ENDS

NOTE: PAINT ALL EXPOSED METAL, UNLESS SPECIFIED TO BE PRE-FINISHED or GALVANIZED, OWNER TO SELECT ALL PRE-FINISHED and PAINT COLORS

REVISIONS

DESCRIPTION	DATE

OWNER

Idaho Department of Transportation
Shoshone - Truck Wash
U.S. Highway 26 (South Rail Street West)
Shoshone, Lincoln County, Idaho 83352

COPYRIGHT 2016

Glancey Rockwell & Associates
Architecture • Planning
595 S Americana Boulevard Boise, Idaho 83702
(208) 345-0566 (208) 345-1718 Fax (208) 387-0889
office@grboise.com

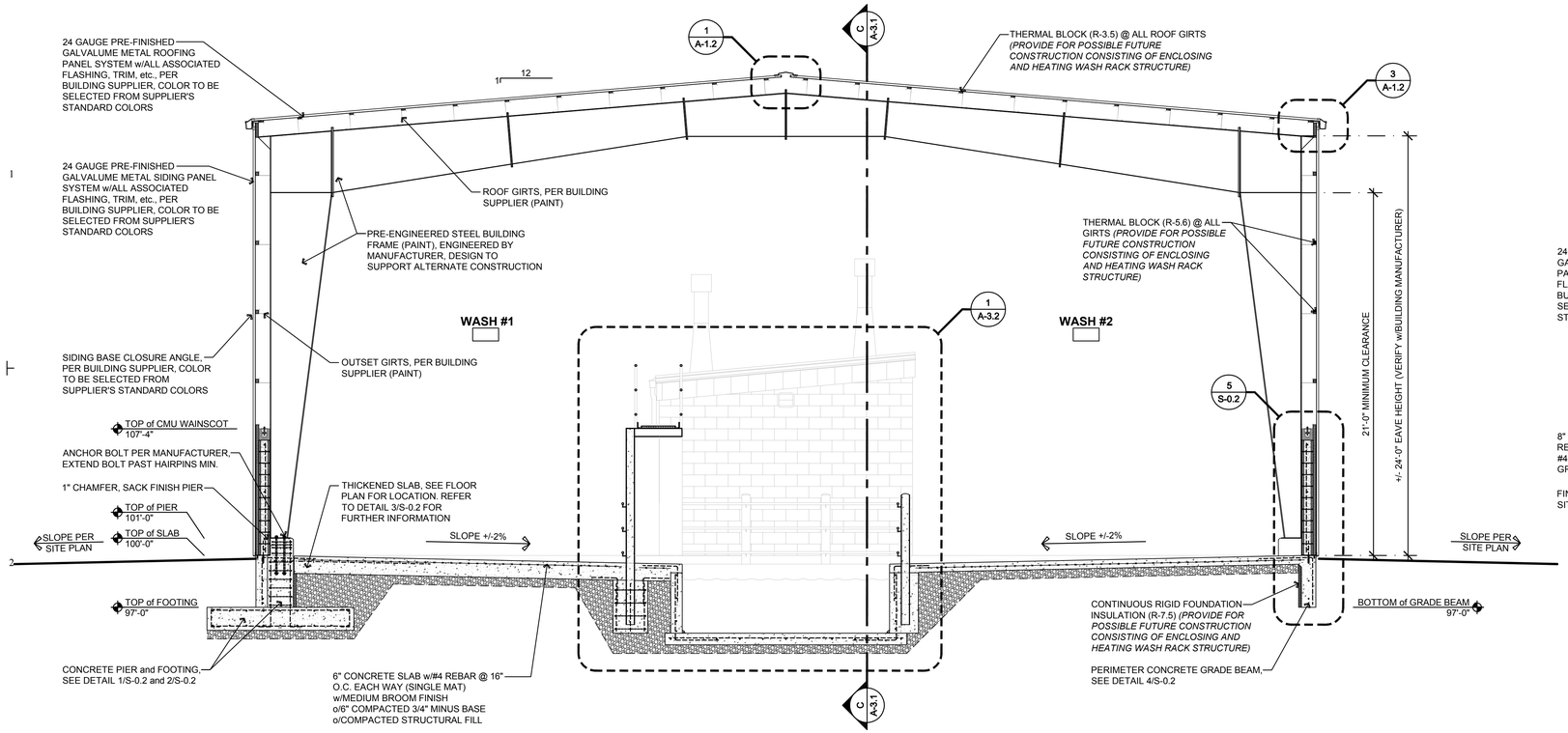
Licensed Architect
Idaho
Peter H. Rockwell
State of Idaho
5-17-2016

SHEET DATA

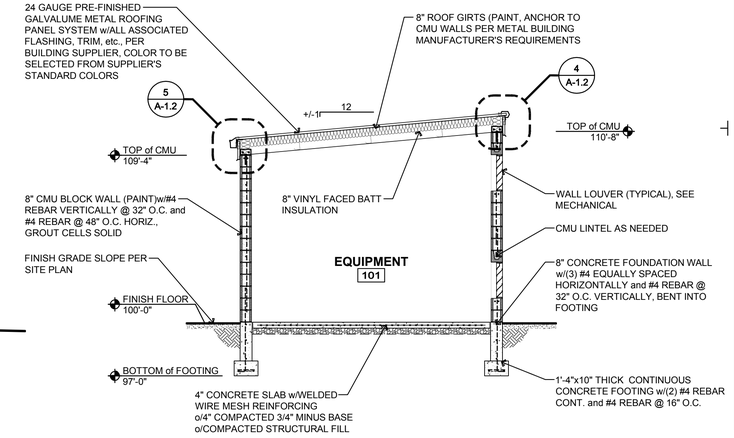
DRAWN BY:	BE
CHECKED BY:	PR
SCALE:	AS NOTED
DATE:	05.17.16
PROJECT #:	15039

SHEET NUMBER

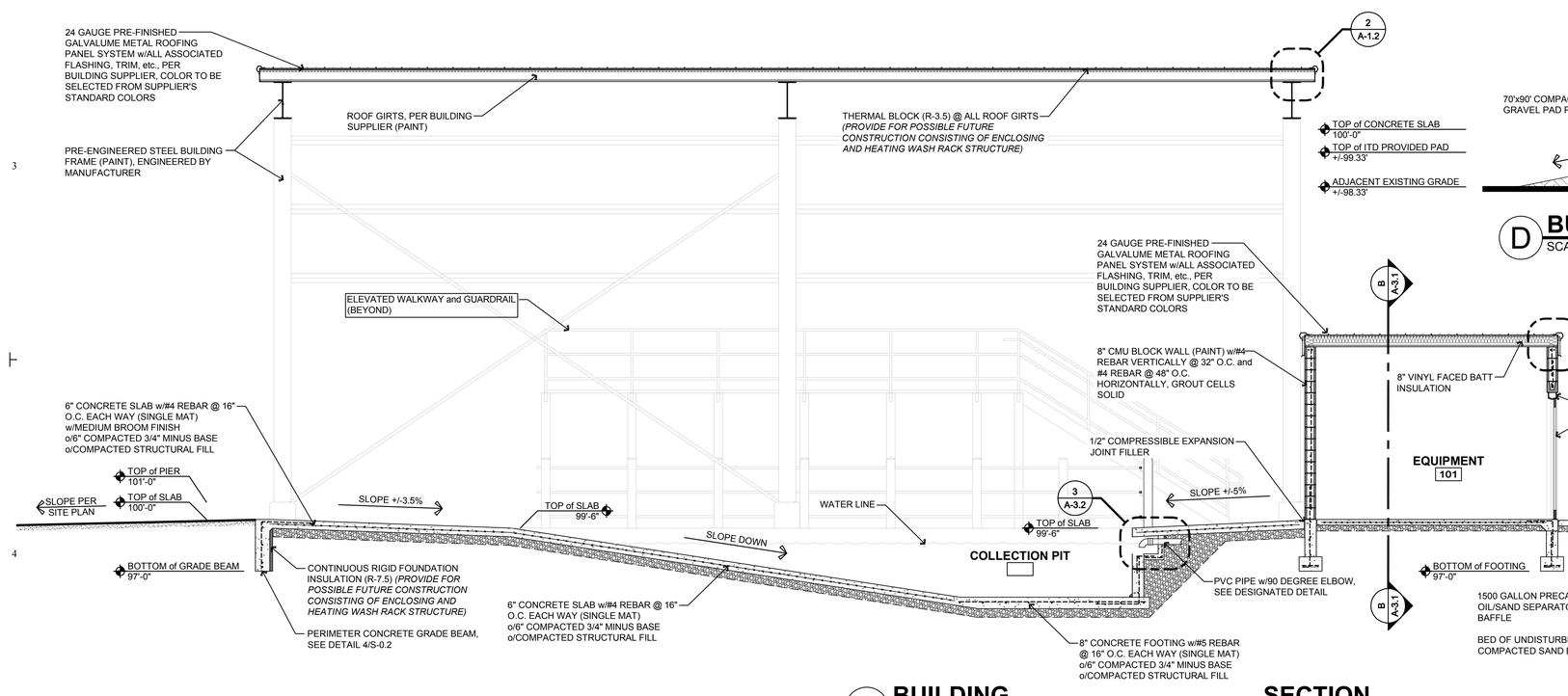
A-2.1



A BUILDING SECTION
SCALE 1/4" = 1'-0"

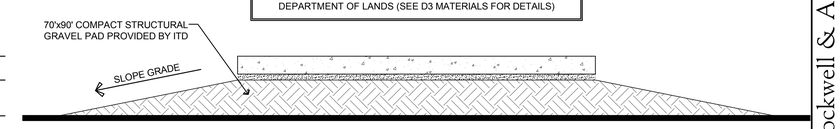


B BUILDING SECTION
SCALE 1/4" = 1'-0"



C BUILDING SECTION
SCALE 1/4" = 1'-0"

CONCRETE SLABS SHALL BE OVER EXCAVATED BY AN ADDITIONAL 1 FOOT THEN BACKFILLED WITH 1 FOOT OF 1-1/2" AGGREGATE BASES. THE BACKFILL MATERIAL SHALL BE EXTENDED TO AT LEAST 1 FOOT OUTSIDE OF THE FOOTING AREA AND IS AVAILABLE AT Ad-53 FOR A ROYALTY OF $0.52/TON OR $0.80/CY, PAYABLE TO THE IDAHO DEPARTMENT OF LANDS (SEE D3 MATERIALS FOR DETAILS)



D BUILDING PAD SECTION
SCALE N.T.S.

REVISIONS

DESCRIPTION	DATE

OWNER

Idaho Department of Transportation
Shoshone - Truck Wash
U.S. Highway 26 (South Rail Street West)
Shoshone, Lincoln County, Idaho 83352

COPYRIGHT 2016

Glancey Rockwell & Associates
Architecture • Planning
595 S Americana Boulevard Boise, Idaho 83702
(208) 345-0566 (208) 345-1718 Fax (208) 387-0889
office@grboise.com

Licensed Architect PR-1684 Peter H. Rockwell State of Idaho 5-17-2016

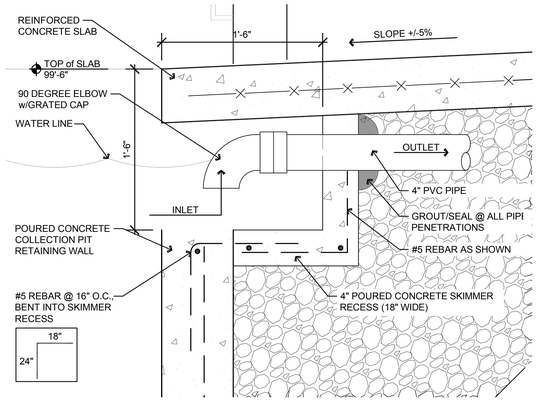
SHEET DATA

DRAWN BY:	BE
CHECKED BY:	PR
SCALE:	AS NOTED
DATE:	05.17.16
PROJECT #:	15039

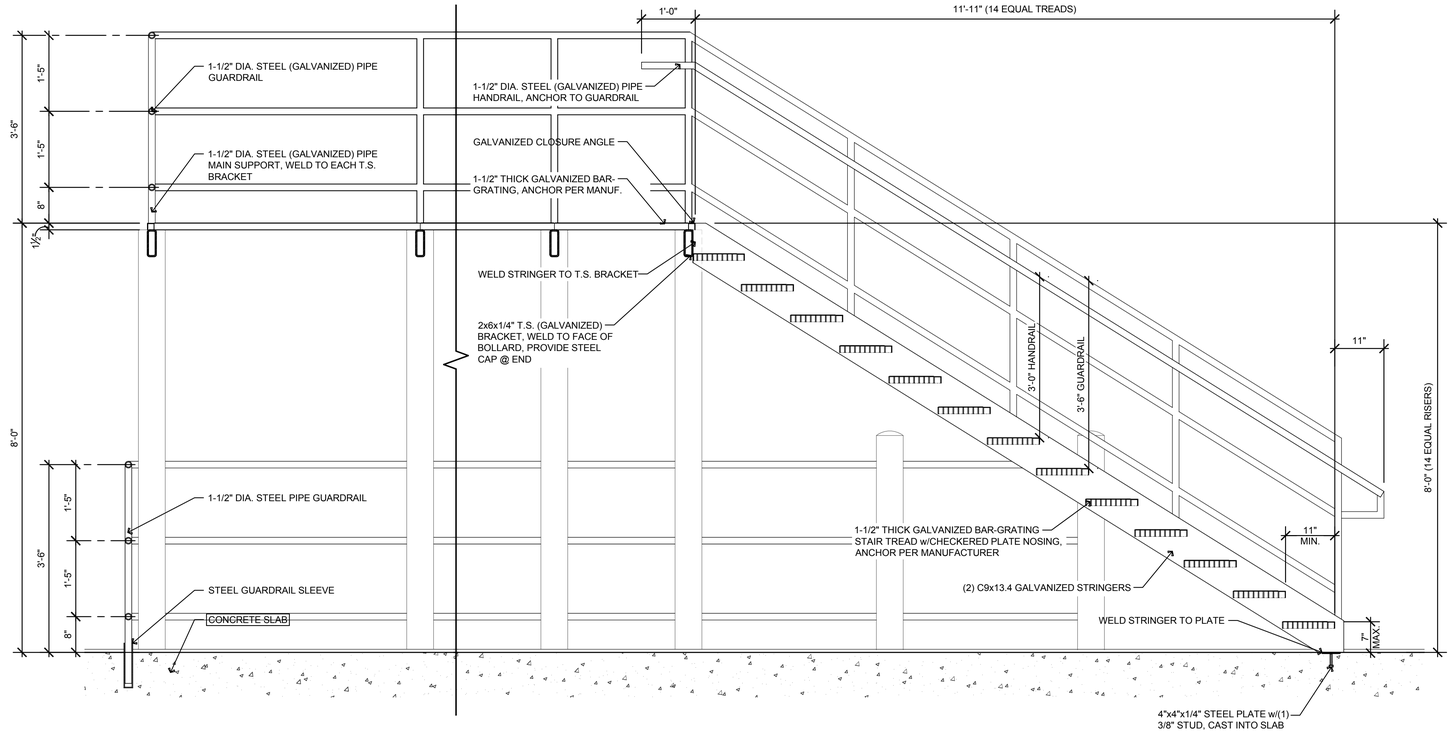
SHEET NUMBER

A-3.1

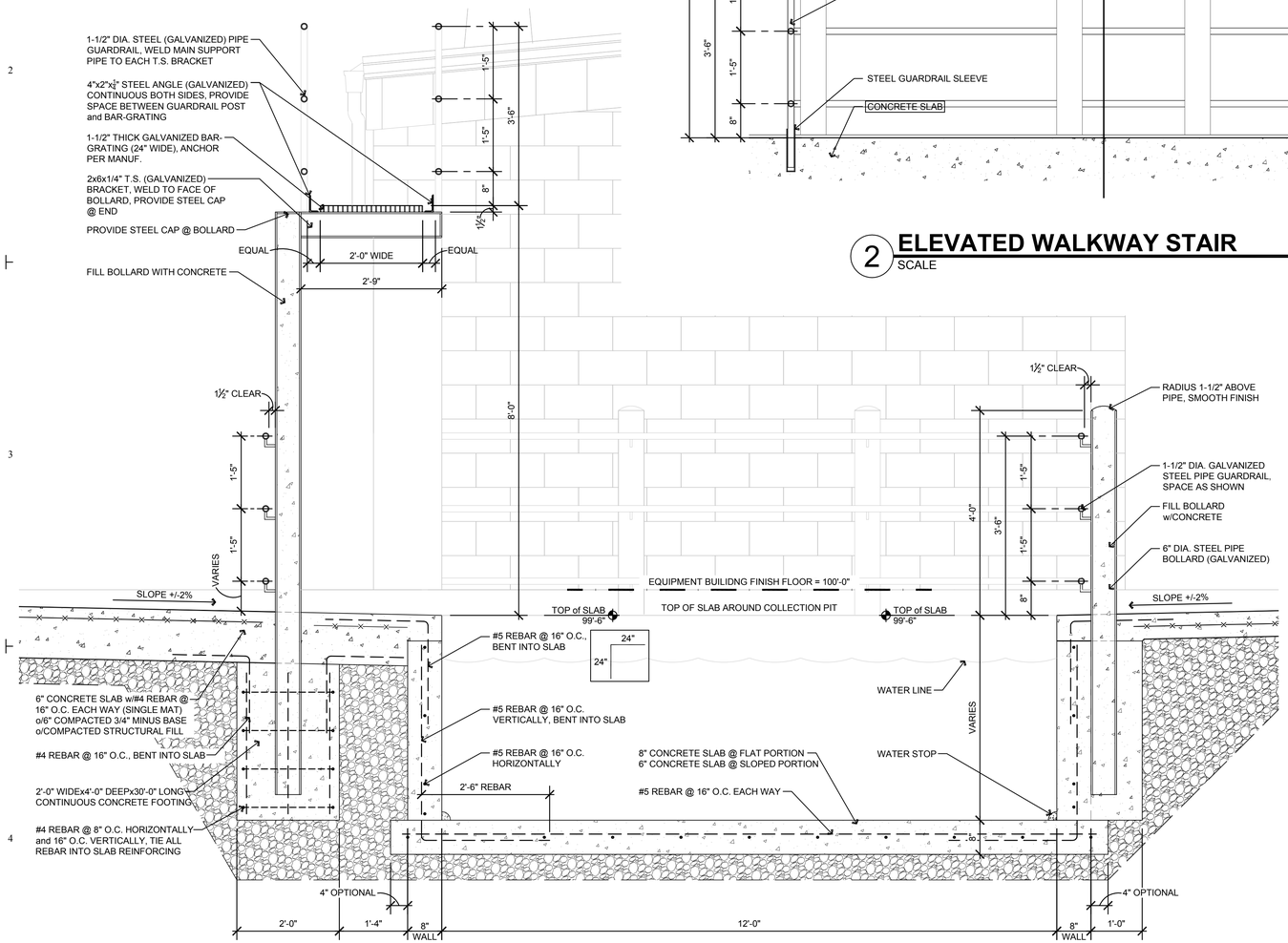
SCALES ARE ACCURATE FOR 24x36 PRINTED SHEETS



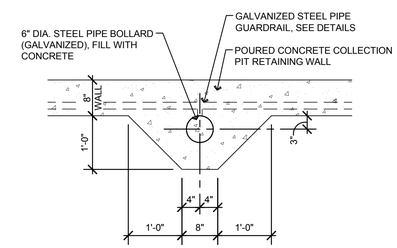
3 OUTLET DETAIL
SCALE 1-1/2" = 1'-0"



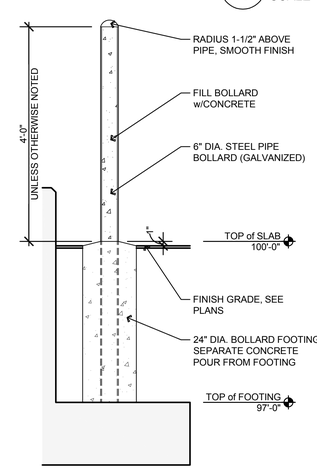
2 ELEVATED WALKWAY STAIR DETAIL
SCALE 3/4" = 1'-0"



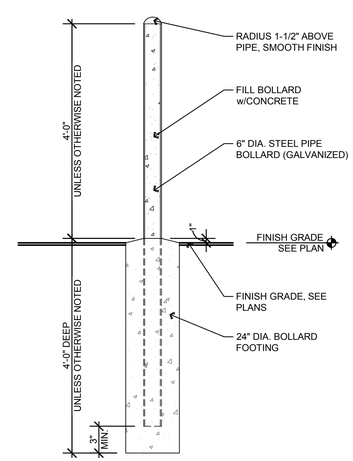
1 ELEVATED WALKWAY/PIT DETAIL
SCALE 3/4" = 1'-0"



4 BOLLARD PLAN
SCALE 3/4" = 1'-0"



5 BOLLARD DETAIL
SCALE 3/4" = 1'-0"



6 BOLLARD DETAIL
SCALE 3/4" = 1'-0"

SCALES ARE ACCURATE FOR 24x36 PRINTED SHEETS

REVISIONS

DESCRIPTION	DATE

OWNER

Idaho Department of Transportation
Shoshone - Truck Wash
U.S. Highway 26 (South Rail Street West)
Shoshone, Lincoln County, Idaho 83352

COPYRIGHT 2016

Glancey Rockwell & Associates
Architecture • Planning
595 S Americana Boulevard Boise, Idaho 83702
(208) 345-0566 (208) 345-1718 Fax (208) 387-0889
office@grboise.com

Licensed Architect PR-1684
5-17-2016
Peter M. Rockwell
State of Idaho

SHEET DATA

DRAWN BY:	BE
CHECKED BY:	PR
SCALE:	AS NOTED
DATE:	05.17.16
PROJECT #:	15039

SHEET NUMBER

A-3.2

GENERAL REQUIREMENTS

GOVERNING CODE : THE "INTERNATIONAL BUILDING CODE (IBC)", 2012 EDITION, AS ADOPTED AND MODIFIED BY THE STATE OF IDAHO, SHALL GOVERN DESIGN AND CONSTRUCTION.

REFERENCE STANDARDS : REFERENCE TO A SPECIFIC SECTION IN A CODE DOES NOT RELIEVE THE CONTRACTOR FROM COMPLIANCE WITH THE ENTIRE STANDARD. THE LATEST EDITION OF THE STANDARD SHALL BE USED UNLESS A SPECIFIC DATE IS INDICATED.

DEFINITIONS : THE FOLLOWING DEFINITIONS COVER THE MEANINGS OF CERTAIN TERMS USED IN THESE NOTES:

* "ARCHITECT/ENGINEER"- THE ARCHITECT AND THE STRUCTURAL ENGINEER OF RECORD (SER).
* "STRUCTURAL ENGINEER OF RECORD" (SER)- THE STRUCTURAL ENGINEER WHO IS LEGALLY ELIGIBLE TO STAMP & SIGN THE STRUCTURAL DOCUMENTS FOR A BUILDING PROJECT. THE SER IS RESPONSIBLE FOR THE DESIGN OF THE PRIMARY STRUCTURAL SYSTEM.
* "SPECIALTY STRUCTURAL ENGINEER"(SSE)- A LICENSED PROFESSIONAL ENGINEER, NOT THE SER, WHO PERFORMS SPECIALTY STRUCTURAL ENGINEERING SERVICES NECESSARY FOR THE STRUCTURE TO BE COMPLETED AND WHO HAS SHOWN EXPERIENCE AND TRAINING IN THE SPECIFIC SPECIALTY.
* "SUBMIT FOR REVIEW"- SUBMIT TO THE ARCHITECT/ENGINEER FOR REVIEW PRIOR TO FABRICATION OR CONSTRUCTION.
* "PER PLAN"- INDICATES REFERENCES TO THE STRUCTURAL PLANS, ELEVATIONS AND STRUCTURAL GENERAL NOTES.

NOTE PRIORITIES : NOTES ON THE INDIVIDUAL DRAWINGS GOVERN OVER THESE GENERAL NOTES.

SPECIFICATIONS : REFER TO THE CONTRACT SPECIFICATIONS FOR INFORMATION IN ADDITION TO THAT CONTAINED IN THESE NOTES AND THE STRUCTURAL DRAWINGS.

DETAILS : THE DRAWINGS ARE INTENDED TO SHOW THE GENERAL CHARACTER AND EXTENT OF THE PROJECT AND ARE NOT INTENDED TO SHOW ALL DETAILS OF THE WORK.

COORDINATION : THE CONTRACTOR IS RESPONSIBLE FOR COORDINATING DETAILS AND ACCURACY OF THE WORK; FOR CONFIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; FOR SELECTING FABRICATION PROCESSES; FOR TECHNIQUES OF ASSEMBLY; AND PERFORMING WORK IN A SAFE AND SECURE MANNER.

CONTRACTOR RESPONSIBILITIES : THE CONTRACTOR IS RESPONSIBLE FOR THE MEANS AND METHODS OF CONSTRUCTION AND ALL JOB RELATED SAFETY STANDARDS SUCH AS OSHA AND DOSH (DEPARTMENT OF OCCUPATIONAL SAFETY AND HEALTH) INCLUDING THOSE STEEL ERECTION ITEMS SPECIFICALLY ADDRESSED IN THE LATEST OSHA REGULATIONS. THE CONTRACTOR IS RESPONSIBLE FOR THE STRENGTH AND STABILITY IF THE STRUCTURE DURING CONSTRUCTION AND SHALL PROVIDE TEMPORARY SHORING, BRACING AND OTHER ELEMENTS REQUIRED TO MAINTAIN STABILITY UNTIL THE STRUCTURE IS COMPLETE. IT IS THE CONTRACTOR'S RESPONSIBILITY TO BE FAMILIAR WITH THE WORK REQUIRED IN THE CONSTRUCTION DOCUMENTS AND THE REQUIREMENTS FOR EXECUTING IT PROPERLY. THE CONTRACTOR SHALL AT HIS DISCRETION EMPLOY AN IDAHO STATE REGISTERED PE FOR DESIGN OF THE TEMPORARY BRACING AND SHORING. BOLTING AND FIELD WELDING AT ALL MEMBER CONNECTIONS IS TO BE COMPLETED PRIOR TO THE RELEASE OF THE MEMBER FROM THE HOISTING MECHANISM UNLESS REVIEWED AND APPROVED BY THE GENERAL CONTRACTOR'S TEMPORARY BRACING AND SHORING DESIGN ENGINEER. SUBMIT CONSTRUCTION SEQUENCE TO ARCHITECT/ENGINEER FOR REVIEW.

DISCREPANCIES : IN CASE OF DISCREPANCIES BETWEEN THE GENERAL NOTES, CONTRACT SPECIFICATIONS AND REFERENCE STANDARDS, THE ARCHITECT/ENGINEER SHALL DETERMINE WHICH SHALL GOVERN. DISCREPANCIES SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK. SHOULD ANY DISCREPANCY BE FOUND IN THE CONTRACT DRAWINGS, THE CONTRACTOR WILL BE DEEMED TO HAVE INCLUDED IN THE PRICE THE MOST EXPENSIVE WAY OF COMPLETING THE WORK, UNLESS PRIOR TO SUBMISSION OF THE PRICE, THE CONTRACTOR ASKS FOR A DECISION FROM THE ARCHITECT/ENGINEER AS TO WHICH SHALL GOVERN. ACCORDINGLY, ANY CONFLICT IN OR BETWEEN THE CONTRACT DOCUMENTS SHALL NOT BE A BASIS FOR ADJUSTMENT IN THE CONTRACT PRICE.

SITE VERIFICATION : THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AT THE SITE. CONFLICTS BETWEEN THE DRAWINGS AND ACTUAL SITE CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER BEFORE PROCEEDING WITH THE WORK.

CONSTRUCTION LOADS : LOADS ON THE STRUCTURE DURING CONSTRUCTION SHALL NOTE EXCEED THE DESIGN LOADS AS NOTED IN DESIGN LOADS BELOW OR THE CAPACITY OF PARTIALLY COMPLETED CONSTRUCTION.

ADJACENT UTILITIES : THE CONTRACTOR SHALL DETERMINE THE LOCATION OF ALL ADJACENT UNDERGROUND UTILITIES PRIOR TO EARTHWORK, FOUNDATIONS, SHORING AND EXCAVATION. ANY UTILITY INFORMATION SHOWN ON THE DRAWINGS AND DETAILS IS APPROXIMATE AND NOT NECESSARILY COMPLETE.

DESIGN LOADS

WIND DESIGN: BASIC WIND SPEED 115 MPH, EXPOSURE C, BUILDING CATEGORY I1 (ASCE 7-10)

SEISMIC DESIGN:
SEISMIC IMPORTANCE FACTOR, IE = 1.00
SEISMIC USE GROUP = II
SPECTRAL RESPONSE ACCELERATION SS = .220
SPECTRAL RESPONSE ACCELERATION S1 = .086
SITE CLASS = D
SPECTRAL RESPONSE COEFFICIENT SDS = .235
SPECTRAL RESPONSE COEFFICIENT SD1 = .138
SEISMIC DESIGN CATEGORY = C
RESPONSE MODIFICATION FACTOR(S): R1 = 3.5
ORDINARY STEEL MOMENT FRAME) 1 = 3.0

DESIGN LIVE LOADS

AREA	LIVE LOADS	ADD COLATERAL LOAD
ROOF (SNOW)	37 PSF (1)	5 PSF

(1) DESIGNED FOR DRIFTING SNOW IN ACCORDANCE WITH IBC SEC. 1608. REFER TO DRAWINGS FOR LOADS FROM DRIFTING SNOW.

SNOW DRIFT PROFILE

SNOW DRIFT #1

DEFERRED SUBMITTAL LOADS (DESIGN-BY-OTHERS) : ALL PRE-ENGINEERED, PREFABRICATED, MANUFACTURED, OR OTHER PRODUCTS DESIGNED BY OTHERS SHALL BE DESIGNED FOR THE TRIBUTARY DEAD AND LIVE LOADS PLUS WIND AND EARTHQUAKE LOADS AND DEFLECTIONS WHEN APPLICABLE. TOTAL DESIGN DEAD LOADS ARE SHOWN BELOW. DESIGN SHALL CONFORM TO THE SPECIFICATIONS, REFERENCE STANDARDS AND GOVERNING CODE.

SUBMITTALS

SUBMITTALS : SUBMITTALS FOR SHOP DRAWINGS, MILL TESTS AND PRODUCT DATA FOR ITEMS, DESIGNED BY THE SSE, SHALL BE MADE TO THE ARCHITECT/ENGINEER. THE CONTRACTOR SHALL REVIEW AND STAMP THE SUBMITTAL BEFORE FORWARDING TO THE ARCHITECT/ENGINEER. ONCE THE CONTRACTOR HAS COMPLETED HIS REVIEW, THE SER WILL REVIEW THE SUBMITTAL FOR GENERAL CONFORMANCE WITH THE DESIGN OF THE STRUCTURE AND WILL STAMP IT ACCORDINGLY.

SHOP DRAWING REVIEW : REVIEW BY THE ARCHITECT/ENGINEER IS FOR GENERAL COMPLIANCE WITH THE DESIGN CONCEPT AND THE CONTRACT DOCUMENTS. DIMENSIONS AND QUANTITIES ARE NOT REVIEWED BY THE SER, AND THEREFORE MUST BE REVIEWED BY THE GENERAL CONTRACTOR. MARKINGS OR COMMENTS SHALL NOT BE CONSTRUED AS RELIEVING THE CONTRACTOR FROM COMPLIANCE WITH THE PROJECT PLANS AND SPECIFICATIONS, NOT DEPARTURES THERE FROM. THE

CONTRACTOR REMAINS RESPONSIBLE FOR DETAILS AND ACCURACY; FOR FIRMING AND CORRELATING ALL QUANTITIES AND DIMENSIONS; FOR SELECTING FABRICATION PROCESSES; FOR TECHNIQUES OF ASSEMBLY; AND FOR PERFORMING WORK IN A SECURE MANNER. WHEN SHOP DRAWINGS (COMPONENT DESIGN DRAWINGS) DIFFER FROM OR ADD TO THE REQUIREMENTS OF THE STRUCTURAL DRAWINGS THEY SHALL BE DESIGNED AND STAMPED BY THE RESPONSIBLE SSE.

DEFERRED SUBMITTALS : ITEMS DESIGNED BY OTHERS SHALL INCLUDE CALCULATIONS, CODE CONFORMANCE, SHOP DRAWINGS (COMPONENT DESIGN DRAWINGS) AND PRODUCT DATA. DESIGN SHALL BE PREPARED BY THE SSE AND SUBMITTED TO THE ARCHITECT AND SER FOR REVIEW PRIOR TO SUBMISSION TO THE COUNTY FOR APPROVAL. THE SSE SHALL SUBMIT TO THE ARCHITECT/ENGINEER FOR REVIEW CALCULATIONS AND SHOP DRAWINGS THAT ARE STAMPED AND SIGNED BY THE SSE. ONCE THE CONTRACTOR HAS COMPLETED HIS REVIEW OF THE SE COMPONENT DRAWINGS, THE SER WILL REVIEW THE SUBMITTAL FOR GENERAL CONFORMANCE WITH THE DESIGN OF THE STRUCTURE AND WILL STAMP THE SUBMITTAL ACCORDINGLY. REVIEW OF THE SSE'S SHOP DRAWINGS IS FOR COMPLIANCE WITH THE DESIGN CRITERIA AND COMPATIBILITY WITH THE DESIGN OF THE PRIMARY STRUCTURE AND DOES NOT RELIEVE THE SSE OF RESPONSIBILITY FOR THAT DESIGN.
ALL NECESSARY BRACING, TIES, ANCHORAGE, PROPRIETARY PRODUCTS SHALL BE FURNISHED AND INSTALLED PER MANUFACTURE'S INSTRUCTIONS OR THE SSE'S DESIGN DRAWINGS AND CALCULATIONS. THESE ELEMENTS INCLUDE BUT ARE NOT LIMITED TO:

* PRE-ENGINEERED METAL BUILDING

TESTS AND INSPECTIONS

INSPECTIONS: ALL CONSTRUCTION IS SUBJECT TO INSPECTION BY THE BUILDING OFFICIAL IN ACCORDANCE WITH IBC SEC. 109. THE CONTRACTOR SHALL COORDINATE ALL REQUIRED INSPECTIONS WITH THE BUILDING OFFICIAL.

SPECIAL INSPECTIONS : SPECIAL INSPECTORS SUBMIT THEIR CREDENTIALS FOR REVIEW BY THE G.C. AND DESIGN TEAM. IN ADDITION TO INSPECTIONS REQUIRED BY THE LOCAL JURISDICTION PER IBC SEC. 109, SPECIAL INSPECTORS SHALL, IN ACCORDANCE WITH CHAPTER 17, INSPECT THE FOLLOWING STRUCTURAL WORK:

CONSTRUCTION OBSERVATIONS: THE S.E.R. WILL PERFORM MONTHLY SITE VISITS TO OBSERVE THE WORK IN PROGRESS AND SHALL PROVIDE A WRITTEN STATEMENT TO THE BUILDING OFFICIAL THAT SITE VISITS HAVE BEEN MADE AND INCLUDE ANY DEFICIENCIES WHICH TO THE KNOWLEDGE OF THE S.E.R. HAVE NOT BEEN RESOLVED.

CONCRETE
* PERIODIC VERIFICATION OF THE USE OF THE APPROVED MIX DESIGN
* PROVIDE SAMPLING AND TESTING
* PERIODIC INSPECTION OF REINFORCING STEEL
* PERIODIC INSPECTION DURING THE PLACEMENT OF REINFORCING STEEL
* PERIODIC INSPECTION DURING THE PLACING OF REINFORCED CONCRETE.
* PERIODIC INSPECTION FOR MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES

STRUCTURAL MASONRY

LEVEL 2 SPECIAL INSPECTION
* PERIODIC INSPECTION OF PROPORTIONS OF SITE-MIXED MORTAR
* PERIODIC INSPECTION OF CONSTRUCTION OF MORTAR JOINTS
* PERIODIC INSPECTION OF SIZE AND LOCATION OF STRUCTURAL ELEMENTS
* PERIODIC INSPECTION OF TYPE, SIZE AND LOCATION OF ANCHORS INCLUDING ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES AND OTHER CONSTRUCTION
* PERIODIC INSPECTION OF SPECIFIED SIZE, GRADE AND TYPE OF REINFORCEMENT
* PERIODIC INSPECTION OF THE PROTECTION OF MASONRY DURING COLD WEATHER (TEMP. BELOW 40° F) OR HOT WEATHER (TEMP. ABOVE 90° F)
* CONTINUOUS INSPECTION TO ENSURE THAT GROUT SPACE IS CLEAN
* CONTINUOUS INSPECTION OF GROUT PLACEMENT AND COMPLIANCE WITH CODE AND CONSTRUCTION DOCUMENTS
* CONTINUOUS INSPECTION AND OBSERVATION OF ANY REQUIRED GROUT SPECIMENS, MORTAR SPECIMENS AND/OR PRISMS
* PERIODIC INSPECTION OF COMPLIANCE WITH REQUIRED INSPECTION PROVISIONS OF THE CONSTRUCTION DOCUMENTS AND THE APPROVED SUBMITTALS

SOILS & FOUNDATIONS
* PERIODIC INSPECTION TO VERIFY MATERIALS BELOW FOOTINGS ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY.
* PERIODIC INSPECTION TO VERIFY THAT EXCAVATIONS ARE EXTENDED TO THE PROPER DEPTH AND HAVE REACHED THE PROPER MATERIAL
* PERIODIC INSPECTION TO OBSERVE SUBGRADE AND VERIFY THAT NATIVE MATERIALS HAVE BEEN PROPERLY PREPARED TO RECEIVE FILL MATERIALS.
* PERIODIC INSPECTION TO VERIFY PROPER USE OF BACKFILL MATERIALS, LIFT THICKNESSES AND COMPACTION OF CONTROLLED FILL MATERIALS.

SPECIAL CASES
* CONTINUOUS INSPECTION DURING THE PREPARATION AND GROUTING OF ADHESIVE ANCHORS AND POST INSTALLED REINFORCING BARS

INSPECTION SUBMITTALS : SPECIAL INSPECTION REPORTS SHALL BE PROVIDED ON A WEEKLY BASIS. FINAL SPECIAL INSPECTION REPORTS WILL BE REQUIRED BY EACH SPECIAL INSPECTION FIRM PER IBC SEC. 1704.1.2. SUBMIT COPIES OF ALL INSPECTION REPORTS TO THE ARCHITECT/ENGINEER AND THE LOCAL BUILDING OFFICIAL FOR REVIEW.

PREFABRICATED CONSTRUCTION : ALL PREFABRICATED CONSTRUCTION SHALL CONFORM TO IBC SEC. 1703.

SOILS AND FOUNDATIONS

REFERENCE STANDARDS : CONFORM TO IBC CHAPTER 18 "FOUNDATIONS & RETAINING WALLS"

CONTRACTOR RESPONSIBILITIES : CONTRACTOR SHALL BE RESPONSIBLE TO REVIEW THE GEOTECHNICAL REPORT AND SHALL FOLLOW THE RECOMMENDATIONS SPECIFIED THEREIN INCLUDING, BUT NOT LIMITED TO SUB GRADE PREPARATIONS, GROUND WATER MANAGEMENT AND STEEP SLOPE BEST MANAGEMENT PRACTICES.

DESIGN SOILS VALUES :
TYPICAL SAFETY FACTOR : 1.5
ALLOWABLE FOUNDATION PRESSURE: 1500 PSF

FOUNDATIONS : ALL FOUNDATION SHALL BEAR ON COMPACTED STRUCTURAL FILL OR ON PROPERLY PREPARED COMPETENT NATIVE MATERIAL, ANY UNSUITABLE MATERIAL SHALL BE REMOVED FROM BELOW FOUNDATIONS. PERIMETER FOOTINGS SHALL BEAR NOT LESS THAN 30 INCHES BELOW FINISHED GRADE.

FOOTING DEPTH : TOPS OF FOOTINGS SHALL BE AS SHOWN ON PLANS WITH VERTICAL CHANGES AS INDICATED WITH STEPS IN THE FOOTINGS; LOCATION OF STEPS SHOWN ARE APPROXIMATE AND SHALL BE COORDINATED WITH THE CIVIL GRADING PLANS TO ENSURE THAT THE EXTERIOR PERIMETER FOOTINGS BEAR NO LESS THAN 30 INCHES BELOW FINISH GRADE, OR AS OTHERWISE INDICATED BY THE GEOTECHNICAL ENGINEER OF BUILDING OFFICIAL.

CAST-IN-PLACE CONCRETE

REFERENCE STANDARDS: CONFORM TO:
(1) ACI 301-08 "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE"
(2) ACI 318-08/318R-02
(3) IBC CHAPTER 19- CONCRETE

FIELD REFERENCE : THE CONTRACTOR SHALL KEEP A COPY OF ACI FIELD REFERENCE MANUAL, SP-15, "STANDARD SPECIFICATIONS FOR STRUCTURAL CONCRETE (ACI 301) WITH SELECTED ACI AND ASTM REFERENCES."

CONCRETE MIXTURES : CONFORM TO ACI 301 SEC. 4 "CONCRETE MIXTURES."

MATERIALS : CONFORM TO ACI 301 SEC. 4.2.1 "MATERIALS" FOR REQUIREMENTS FOR CEMENTIOUS MATERIALS, AGGREGATES, MIXING WATER AND ADMIXTURES.

SUBMITTALS : PROVIDE ALL SUBMITTALS REQUIRED BY ACI 301 SEC. 4.1.2. SUBMIT MIX DESIGNS FOR EACH MIX IN THE TABLE BELOW.

TABLE OF MIX DESIGN REQUIREMENTS

MEMBER TYPE/LOCATION	STRENGTH (psi)	TEST AGE (days)	MINIMUM CEMENT TYPE V	MAXIMUM AGGREGATE	MAXIMUM W/C RATIO	AIR CONTENT
FOUNDATIONS						
FOOTINGS	4000	28	564#	3/4"	.50	
STEM WALLS	4000	28	564#	3/4"	.50	6%
SLABS-ON-GRADE INTERIOR	4000	28	564#	3/4"	.45	6%

MIX DESIGN NOTES:
(1) W/C RATIO: WATER-CEMENTIOUS MATERIAL RATIOS SHALL BE BASED ON THE TOTAL WEIGHT OF CEMENTIOUS MATERIALS. RATIOS NOT SHOWN IN THE TABLE ABOVE ARE CONTROLLED BY STRENGTH REQUIREMENTS.
(2) CEMENTIOUS CONTENT:
(a) THE USE OF FLY ASH, OTHER POZZOLANS, SILICA FUME, OR SLAG SHALL CONFORM TO ACI 301 SEC. 4.2.2.8.B. MAXIMUM AMOUNT OF FLY ASH SHALL BE 15% OF TOTAL CEMENTIOUS CONTENT UNLESS REVIEWED AND APPROVED OTHERWISE BY THE SER. USE OF FLYASH SHALL NOT BE PERMITTED FOR SLABS ON GRADE.
(3) AIR CONTENT: CONFORM TO ACI 301 SEC. 4.2.2.3. HORIZONTAL EXTERIOR SURFACES IN CONTACT WITH THE SOIL REQUIRE ENTRAINED AIR. TOLERANCE IS ± 1 ½%. AIR CONTENT SHALL BE MEASURED AT POINT OF PLACEMENT.
(4) SLUMP: CONFORM TO ACI 301 SEC. 4.2.2.2. SLUMP SHALL BE DETERMINES AT POINT OF PLACEMENT.
(5) CHLORIDE CONTENT: CONFORM TO ACI 301 SEC. 4.2.2.6 AND TABLE 4.2.2.6 FOR "OTHER REINFORCED CONCRETE CONSTRUCTION."
(6) NON-CHLORIDE ACCELERATOR: NON-CHLORIDE ACCELERATING ADMIXTURE MAY BE USED IN CONCRETE SLABS

FORMWORK: CONFORM TO ACI 301 SEC. 2 "FORMWORK AND FOR ACCESSORIES." REMOVAL OF FORMS SHALL CONFORM TO SEC. 2.3.2 EXCEPT STRENGTH INDICATED IN SEC. 2.3.2.5 SHALL BE 0.75 F'C.

MEASURING, MIXING & DELIVERY : CONFORM TO ACI 301 SEC. 4.3.

HANDLING, PLACING, CONSTRUCTING AND CURING : CONFORM TO ACI 301 SEC. 5.

CONCRETE SEALER : CONCRETE SALINE SEALER CONTAINING 40% SOLIDS SHALL BE APPLIED TO ALL EXPOSED SLAB SURFACES. PLACED AT AMBIENT TEMPERATURES BELOW 50° F AT THE CONTRACTOR'S OPTION.

CONSTRUCTION JOINTS : CONFORM TO ACI 301 SECS. 2.2.2.5, 5.2.1.3A, 5.2.2.1 AND 5.3.2.6. CONSTRUCTION JOINTS SHALL BE LOCATED AND DETAILED AS ON THE CONSTRUCTION DRAWINGS. USE OF AND ACCEPTABLE ADHESIVE, SURFACE RETARDER, PORTLAND CEMENT GROUT OR ROUGHENING THE SURFACE IS NOT REQUIRED UNLESS SPECIFICALLY NOTED ON THE PLANS.

EMBEDDED ITEMS : POSITION AND SECURE IN PLACE EXPANSION JOINT MATERIAL, ANCHORS AND OTHER STRUCTURAL AND NON-STRUCTURAL EMBEDDED ITEMS BEFORE PLACING CONCRETE. CONTRACTOR SHALL REFER TO MECHANICAL, ELECTRICAL, PLUMBING AND ARCHITECTURAL DRAWINGS AND COORDINATE OTHER EMBEDDED ITEMS.

REINFORCED MASONRY UNITS

REFERENCE STANDARDS: CONFORM TO:
(1) IBC CHAPTER 21 - MASONRY
(2) ACI 530-08/ASCE 5-08/TMS 402-08 "BUILDING CODE REQUIREMENTS FOR MASONRY STRUCTURES"
(3) ACI 530.1-08/ASCE 6-08/TMS 602-08 "SPECIFICATION FOR MASONRY STRUCTURES"
(4) ACI SP-66 "ACI DETAILING MANUAL" INCLUDING ACI 315 "DETAILS OF DETAILING OF CONCRETE REINFORCEMENT"
(5) ANSI/AWS D1.4 "STRUCTURAL WELDING CODE- REINFORCING STEEL"

SUBMITTALS: CONFORM TO MSJC SEC. 1.5 . SUBMIT SHOP DRAWINGS FOR REVIEW INCLUDING:
(1) MASONRY REINFORCEMENT, SIZE, LAYOUT AND GRADE IN ACCORDANCE WITH PLANS
(2) MATERIAL CERTIFICATES FOR ALL STEEL REINFORCING, ANCHORS, TIES AND METAL ACCESSORIES CERTIFYING COMPLIANCE WITH REQUIRED STRENGTH, GRADE AND ASTM STANDARDS
(3) MIX DESIGNS FOR EACH GROUT MIX INDICATING TYPE AND PROPORTIONS OF INGREDIENTS IN COMPLIANCE OF PROPORTIONS SPECIFICATION
(4) LOCATION OF EXPANSION AND CONTROL JOINTS
(5) PRODUCT INFORMATION, ICC REPORTS AND MATERIAL CERTIFICATIONS CERTIFYING COMPLIANCE FOR NON-PRE- APPROVED POST-INSTALLED ANCHORS

STRENGTH: THE ASSUMED STRENGTH OF THE MASONRY ASSEMBLAGE, F'M, IS 1500 PSI BASED ON IBC SEC. 2105.2.2.1.2 FOR CONCRETE MASONRY.

MATERIALS
(1) CONCRETE MASONRY UNITS : CONFORM TO ASTM C90, GRADE N-1, MEDIUM OR LIGHT WEIGHT. PROVIDE 1900 PSI COMPRESSION STRENGTH TO ACHIEVE MASONRY ASSEMBLY STRENGTH INDICATED ABOVE UNDER STRENGTH.
(2) MORTAR : CONFORM TO ASTM C270, TYPE S, AND IBC SEC. 2103.8 "MORTAR." PROPORTIONS SHALL BE BASED ON IBC TABLE 2103.8(1).
(3) GROUT: CONFORM TO ASTM C476 AND IBC SEC. 2103.12. PROPORTIONS SHALL BE BASED ON IBC TABLE 2103.12. USE FINE GROUT EXCEPT COURSE GROUT MAY BE USED WHERE PERMITTED BY ACI 530-02 TABLE 1.15.1.
(4) REINFORCING BARS: CONFORM TO ASTM A615, GRADE 60, DEFORMED BARS UNLESS OTHERWISE NOTED. LAP BARS AS NOTED ON PLANS. PLACE IN ACCORDANCE WITH ACI 530-02 SEC. 1.12.
(5) JOINT REINFORCEMENT: CONFORM TO ASTM A951 AND IBC SEC. 2103.13.2.
(6) ANCHORS, TIES & ACCESSORIES: CONFORM TO IBC SEC. 2103.13.5 AND MSJC 1 SEC. 2.4
(7) WATER: SHALL BE CLEAN AND POTABLE.
(8) ADMIXTURES: ADMIXTURES SHALL NOT BE USED UNLESS APPROVED BY SER.
(9) POST-INSTALLED ADHESIVE ANCHORS IN MASONRY: HILTI HY 70 W/ ASTM A36 RODS PER ICC ESR 1976.
(10) SECOND-HAND UNITS: SHALL NOT BE USED.

DELIVERY, STORAGE & HANDLING : DELIVERY, STORAGE AND HANDLING OF MATERIALS USED FOR MASONRY CONSTRUCTION SHALL BE PER MSJC 1 SEC. 1.7.

SPECIAL INSPECTION SPECIAL INSPECTIONS SHALL BE PERFORMED PER TESTS AND INSPECTIONS SECTION OF THE STRUCTURAL GENERAL NOTES. TEST FREQUENCY IS DESCRIBED IN THE PROJECT AND SPECIFICATIONS.

QUALITY ASSURANCE: CONFORM TO IBC SEC. 2105 "QUALITY ASSURANCE."
(1) MASONRY UNITS : LETTER OF CERTIFICATION FROM THE MANUFACTURER OF THE UNITS SHALL BE PROVIDED TO THE SER AT THE TIME OF , OR PRIOR TO, THE DELIVERY OF THE UNITS TO THE JOBSITE TO ENSURE THE UNITS HAVE BEEN TESTED ACCORDING TO ASTM C140 AND COMPLY WITH THE COMPRESSIVE STRENGTH SPECIFIED ABOVE AND ASTM C90.
(2) MORTAR: PROVIDE MORTAR MIX DESIGNS FOR SER APPROVAL PRIOR TO START OF MASONRY CONSTRUCTION. NO MORTAR TESTING IS REQUIRED.
(3) GROUT: GROUT MIX DESIGN PREPARED BY THE SUPPLIER OF THE GROUT SHALL BE PROVIDED TO THE SER PRIOR TO, START OF MASONRY CONSTRUCTION FOR APPROVAL TO ENSURE THAT THE GROUT COMPLIES WITH ASTM C476 AND PROPORTIONS PER IBC TABLE 2103.12.

ANCHOR , TIES & ACCESSORIES: MASONRY ANCHORS, TIES AND CONNECTORS SHALL BE AS SPECIFIED ON STRUCTURAL DRAWINGS CONSULT ARCHITECTURAL DRAWINGS FOR MASONRY ANCHOR TIES NOT INCLUDED ON THE STRUCTURAL DRAWINGS.

CONSTRUCTION: MASONRY SHALL BE CONSTRUCTED IN ACCORDANCE WITH IBC SE. 2104 "CONSTRUCTION" AND ACI 530.1, PART 3 -"EXECUTION."

BLOCK PATTERN: USE RUNNING BOND UNLESS OTHERWISE NOTED. (FOR STACK BOND, FOLLOW CRITERIA IN ACI 530-02 SEC. 1.11.)

MASONRY REINFORCING STEEL: REINFORCING STEEL SHALL CONFORM TO IBC SECTION 2103.13. DEFORMED BARS SHALL BE GRADE 60, UNLESS OTHERWISE NOTED AND SHALL BE SECURELY PLACED IN ACCORDANCE WITH IBC SECTIONS (2104.1.1, 2106 AND 2107.)

BOND BEAMS WITH A MINIMUM OF (1) #5 ON ALL SIDES OF AND ADJACENT TO, EVERY OPENING WHICH IS LESS THAN 48" IN BOTH DIRECTIONS. WHERE THE OPENING IS 48" IN EITHER DIRECTION, A MINIMUM OF (2) #5 BARS SHALL BE USED, ONE BAR BAR IN EACH OF THE FIRST TWO CELLS. IN EITHER CASE SUCH BARS SHALL EXTEND NOT LESS THAN 24" BEYOND THE CORNER OF THE OPENING. EXTEND NOT LESS THAN 24" BEYOND THE CORNER OF THE OPENING.

TYPICAL VERTICAL AND HORIZONTAL MASONRY REINFORCING AT CORNERS, INTERSECTIONS AND WALL ENDS SHALL BE AS SHOWN AND REFERENCED IN THE PLANS. LINTEL AND JAMB REINFORCING SHALL ALSO BE AS SHOWN AND REFERENCED IN THE PLANS.

VERTICAL REINFORCING:
TYPICAL MASONRY WALLS SHALL HAVE VERTICAL REINFORCING OF #4 BARS AT 32" O.C.

HORIZONTAL REINFORCING:
BOND BEAMS WITH A MINIMUM OF (2) #4 SHALL BE PROVIDED AT ROOF AND/OR TOP OF WALL ELEVATIONS.
TYPICAL BOND BEAM REINFORCING WITH A MINIMUM OF (1) #4 SHALL BE PROVIDED AT NOT GREATER THAN 4'-0" O.C.
PROVIDE HORIZONTAL JOINT REINFORCING (LADDER W/.148 DIAM RODS) AT 16" O.C.
BOND BEAMS AT OPENINGS SHALL HAVE A MINIMUM OF (1) #4 ON ALL SIDES OF AND ADJACENT TO, EVERY OPENING WHICH IS LESS THAN 48" IN BOTH DIRECTIONS. WHERE THE OPENING IS 48" IN EITHER DIRECTION, A MINIMUM OF (2) #4 BARS SHALL BE USED, ONE BAR IN EACH OF THE FIRST TWO CELLS, IN EITHER CASE SUCH BARS SHALL EXTEND NOT LESS THAN 24" BEYOND THE CORNER OF THE OPENING.

LINTELS: REINFORCED MASONRY LINTELS TO BE INSTALLED OVER ALL OPENINGS UNLESS OTHERWISE INDICATED ON DRAWINGS, DO NOT SPLICE REINFORCING BARS WITHIN LINTELS AND MAINTAIN 8 INCH BEARING MINIMUM ON EACH SIDE. UNLESS OTHERWISE NOTED ON THE PLANS, THE MINIMUM REINFORCING FOR LINTELS IN 8 INCH MASONRY SHALL BE AS SPECIFIED IN THE LINTEL SCHEDULE ON THE STRUCTURAL DRAWINGS.

GROUTED CELLS: FILL THOSE CELLS WHICH CONTAIN REINFORCING STEEL WITH GROUT UNLESS NOTED OTHERWISE ON PLANS. MINIMUM GROUTING SPACES AND CONSTRUCTION SHALL BE IN ACCORDANCE WITH MSJC 1 SEC. 1.16 AND SEC. 3.5.

GROUT POUR HEIGHT : GROUT POUR HEIGHT SHALL NOTE EXCEED HEIGHT SPECIFIED IN MSJC SEC. 3.5C.

GROUT LIFTS: UNLESS OTHERWISE NOTED, GROUT LIFTS AND POUR HEIGHT SHALL NOT EXCEED 5 FEET. GROUT LIFTS EXCEEDING 5' FEET SHALL BE APPROVED BY SER.

PREFABRICATED METAL BUILDING STRUCTURE

REFERENCE STANDARDS
(1) AISC “SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS”
(2) AWS D1.1 “STRUCTURAL WELDING CODE- STEEL”

SUBMITTALS SUBMIT STRUCTURAL CALCULATIONS AND SHOP DRAWINGS (COMPONENT DESIGN DRAWINGS) STAMPED BY A SSE. SUBMITTALS SHALL INCLUDE FOUNDATION REACTIONS FOR GOVERNING LOAD COMBINATIONS FOR AISC “SPECIFICATION FOR STRUCTURAL STEEL BUILDINGS” AND IBC CHAPTER 16. REFERENCE DEFERRED SUBMITTALS ABOVE FOR ADDITIONAL INFORMATION.

STRUCTURAL REQUIREMENTS
(1) METAL BUILDING FRAMING, INCLUDING RIGID FRAMES, RAFTER BEAMS, COLUMNS, PURLINS, LATERAL BRACING AND METAL ROOFING AND SIDING SHALL BE DESIGNED BY THE METAL BUILDING MANUFACTURER FOR THE STRUCTURE DEAD LOAD, COLLATERAL LOAD, LIVE OR SNOW LOAD AND LATERAL LOADS INDICATED IN THE STRUCTURAL NOTES AND PLANS. ALL DESIGNS SHALL BE COMPLETED IN ACCORDANCE WITH THE 2012 IBC BY A PROFESSIONAL ENGINEER REGISTERED IN THE STATE OF IDAHO. PROVIDE STRUCTURAL MEMBERS AS REQUIRED BY DESIGN AND CONSISTENT WITH LOCATIONS SHOWN ON THESE DRAWINGS. MODIFICATION OB BUILDING CONFIGURATION WILL BE PERMITTED ONLY WITH WRITTEN APPROVAL OF THE ENGINEER OF RECORD. SUBMIT DESIGN CALCULATIONS AND FRAMING/ERECTION PLANS FOR THE EOR TO REVIEW PRIOR TO FABRICATION. AS A MINIMUM, THE SUBMITTAL SHALL INCLUDE FOUNDATION REACTIONS, ANCHOR BOLT PLACEMENT AND SIZES, COLUMN BEARING AREA REQUIREMENTS, MEMBER SIZING AND SPACING AND CONNECTION DETAILS. REDESIGN OF THE FOUNDATION COMPONENTS MAY BE REQUIRED IF THE MAXIMUM REACTIONS OR COLUMN LAYOUT DIFFER SUBSTANTIALLY FROM THE DESIGN ASSUMPTIONS STATED ON THESE DRAWINGS.
(2) VERIFY SPECIAL INSPECTION REQUIREMENTS WITH THE METAL BUILDING SUPPLIER TO MEET THE REQUIREMENTS OF IBC SECTION 1704.3. THE GENERAL CONTRACTOR SHALL PROVIDE A MINIMUM OF 48 HOURS NOTICE TO THE SPECIAL INSPECTOR PRIOR TO ANY FIELD WELDING OPERATIONS OR INSTALLATION OF HIGH STRENGTH BOLTS.

STAPLEY ENGINEERING
STRUCTURAL ENGINEERS

REVISIONS

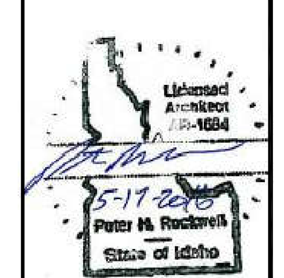
DESCRIPTION	DATE

OWNER

Idaho Department of Transportation
Shoshone - Truck Wash
U.S. Highway 26 (South Rail Street West)
Shoshone, Lincoln County, Idaho 83352

COPYRIGHT
2016

Glancey◆ Rockwell & Associates
Architecture • Planning
595 S Americana Boulevard Boise, Idaho 83702
(208) 345-0566 (208) 345-1718 Fax (208) 387-0889
office@grboise.com



SHEET DATA

DRAWN BY:	BE
CHECKED BY:	PR
SCALE:	AS NOTED
DATE:	05.17.16
PROJECT #:	15039

SHEET NUMBER

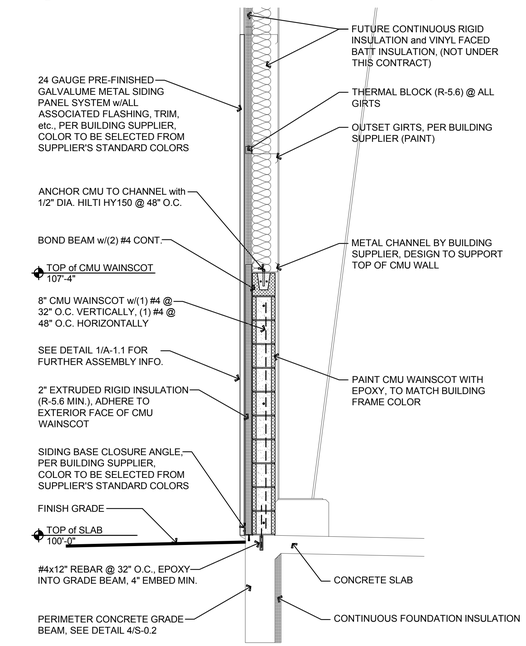
S-0.1

SPECIAL INSPECTION SCHEDULE [1,2]

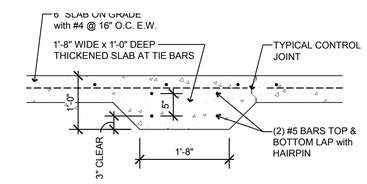
ESTABLISHED PER 2009 IBC SECTION 110 AND CHAPTER 17

ITEM	CONTINUOUS [3]	PERIODIC [3]	REFERENCE	COMMENTS
PRE-FAB CONSTRUCTION (IBC 1704.2)			REFERENCE NOTES P1 AND P2	P1 - SPECIAL INSPECTION IS NOT REQUIRED WHERE THE WORK IS DONE ON THE PREMISES OF A FABRICATOR REGISTERED AND APPROVED TO PERFORM SUCH WORK WITHOUT SPECIAL INSPECTION PROVIDED THE FABRICATOR COMPLIES WITH THE IBC. P2 - INSPECTION FOR PREFABRICATED CONSTRUCTION SHALL BE THE SAME AS IF THE MATERIAL USED IN THE CONSTRUCTION TOOK PLACE ON SITE. SPECIAL INSPECTION WILL NOT BE REQUIRED DURING PREFABRICATION, IF THE APPROVED AGENCY CERTIFIES THE CONSTRUCTION AND FURNISHES EVIDENCE OF COMPLIANCE (SEE NOTE 2).
CONCRETE CONSTRUCTION (IBC 1704.4)			SEE IBC TABLE 1704.4 - REF. NOTE C1	C1 - SPECIAL INSPECTION IS NOT REQUIRED FOR CONCRETE ISOLATED SPREAD FOOTINGS, CONTINUOUS FOOTINGS, NON-STRUCTURAL SLABS, FOUNDATION WALLS, PATIOS, DRIVEWAYS AND SIDEWALKS PROVIDED THE REQUIREMENTS OF IBC 1704.4 ARE MET. C2 - PERIODIC SPECIAL INSPECTION IS ALLOWED FOR VERIFICATION OF THE WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706 IN ACCORDANCE WITH ANSI/AWS D1.4. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, BOUNDARY ELEMENTS OF SPECIAL REINFORCED CONCRETE SHEAR WALLS AND SHEAR REINFORCEMENT. PERIODIC SPECIAL INSPECTION IS ALLOWED FOR WELDING OF OTHER ASTM A706 REINFORCING STEEL NOT INCLUDE IN THE CONTINUOUS SPECIAL INSPECTION REQUIREMENTS NOTED ABOVE. C3 - PERFORM SIR, SLUMP AND TEMPERATURE TESTS WHEN CONCRETE SAMPLES ARE CAST. C4 - PERIODIC SPECIAL INSPECTION IS REQUIRED FOR VERIFICATION OF IN-SITU CONCRETE STRENGTH FOR POST-TENSIONED CONCRETE PRIOR TO TENSIONING OR REMOVING SHORING OR FORMS. C5 - EPOXY AND EXPANSION ANCHORS INTO MASONRY OR CONCRETE MAY BE USED ONLY WHEN APPROVED BY THE ARCHITECT AND/OR ENGINEER USING AN APPROVED PRODUCT WITH CURRENT PUBLISHED ICC RESEARCH REPORT NUMBERS.
REINFORCING STEEL PLACEMENT		●		
WELDING OF REINFORCING STEEL	●	●	REFERENCE NOTE C2	
EMBEDDED BOLTS AND PLATES	●			
VERIFYING REQUIRED DESIGN MIX		●		
CONCRETE PLACEMENT/SAMPLING	●		REFERENCE NOTE C3	
CURING TEMPERATURE/TECHNIQUES		●		
EPOXY/EXPANSION ANCHOR PLACEMENT	●		REFERENCE NOTE C5	
MASONRY CONSTRUCTION (IBC 1704.5)			SEE IBC TABLE 1704.5.1	M1 - PERIODIC SPECIAL INSPECTION IS ALLOWED FOR VERIFICATION OF THE WELDABILITY OF REINFORCING STEEL OTHER THAN ASTM A706 IN ACCORDANCE WITH ANSI/AWS D1.4. CONTINUOUS SPECIAL INSPECTION IS REQUIRED FOR REINFORCING STEEL RESISTING FLEXURAL AND AXIAL FORCES IN INTERMEDIATE AND SPECIAL MOMENT FRAMES, BOUNDARY ELEMENTS OF SPECIAL REINFORCED MASONRY SHEAR WALLS AND SHEAR REINFORCEMENT. PERIODIC SPECIAL INSPECTION IS ALLOWED FOR WELDING OF OTHER ASTM A706 REINFORCING STEEL NOT INCLUDED IN THE CONTINUOUS SPECIAL INSPECTION REQUIREMENTS NOTED ABOVE. M2 - EPOXY AND EXPANSION ANCHORS INTO MASONRY OR CONCRETE MAY BE USED ONLY WHEN APPROVED BY THE ARCHITECT AND/OR ENGINEER USING AN APPROVED PRODUCT WITH CURRENT PUBLISHED ICC RESEARCH REPORT NUMBERS.
AS MASONRY CONSTRUCTION BEGINS, VERIFY:				
SITE PREPARED MORTAR		●		
MORTAR JOINTS		●		
REINFORCEMENT/CONNECTORS		●		
INSPECTION SHALL VERIFY:				
SIZE AND LOCATION OF STRUCTURAL ELEMENTS		●		
TYPE, SIZE AND LOCATION OF ANCHORS	●			
SIZE, GRADE AND TYPE OF REINFORCEMENT		●		
WELDING OF REINFORCING BARS	●		REFERENCE NOTE M1	
HOT AND COLD WEATHER PROTECTION		●		
PRIOR TO GROUTING, VERIFY:				
CLEAN GROUT SPACE	●			
PLACEMENT OF REINFORCEMENT CONNECTORS, TENDONS AND ANCHORS		●		
PROPORTIONS OF SITE PREPARED GROUT		●		
CONSTRUCTION OF MORTAR JOINTS		●		
GROUT PLACEMENT	●			
PREPARATION OF TEST SPECIMENS/PRISMS	●			
COMPLIANCE WITH CONST. DOCUMENTS/SUBMITTALS		●		
EPOXY/EXPANSION ANCHOR PLACEMENT	●		REFERENCE NOTE M2	
VERIFICATION OF f'm PRIOR TO CONSTRUCTION AND EVERY 5000 SQ. FT. DURING CONSTRUCTION		●		
VERIFICATION OF PROPORTIONS OF MATERIALS IN MORTAR AND GROUT AS DELIVERED TO SITE				

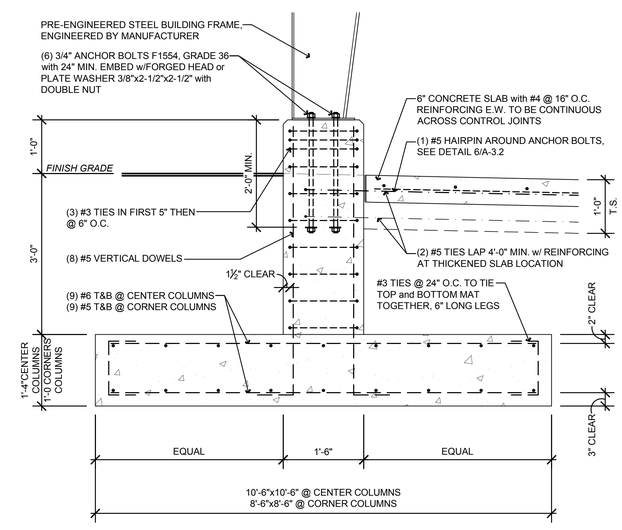
STAPLEY ENGINEERING
STRUCTURAL ENGINEERS



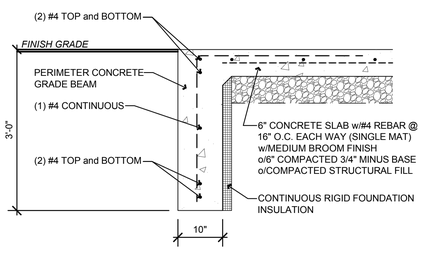
5 **CMU WALL DETAIL**
SCALE 1/2" = 1'-0"



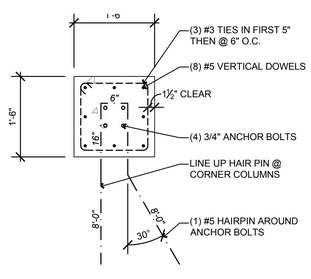
3 **THICKENED SLAB DETAIL**
SCALE 3/4" = 1'-0"



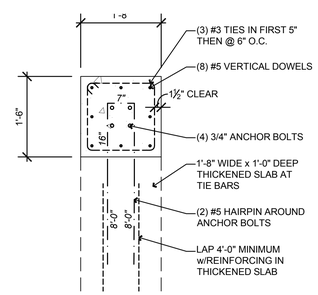
1 **CONCRETE PIER DETAIL**
SCALE 3/4" = 1'-0"



4 **GRADE BEAM DETAIL**
SCALE 3/4" = 1'-0"



CORNER COLUMNS



CENTER COLUMNS

2 **CONCRETE PIER PLANS**
SCALE 3/4" = 1'-0"

SCALES ARE ACCURATE FOR 24x36 PRINTED SHEETS

REVISIONS

DESCRIPTION	DATE

OWNER

Idaho Department of Transportation
Shoshone - Truck Wash
U.S. Highway 26 (South Rail Street West)
Shoshone, Lincoln County, Idaho 83352

COPYRIGHT 2016

Glancey◆ Rockwell & Associates
Architecture• Planning
595 S Americana Boulevard Boise, Idaho 83702
(208) 345-0566 (208) 345-1718 Fax (208) 387-0889
office@grboise.com

Licensed Architect 5-17-2016 Peter H. Rockwell State of Idaho

SHEET DATA

DRAWN BY:	BE
CHECKED BY:	PR
SCALE:	AS NOTED
DATE:	05.17.16
PROJECT #:	15039

SHEET NUMBER

S-0.2

PLUMBING FIXTURE SCHEDULE

IDENTIFICATION	DESCRIPTION	MANUFACTURER	MODEL	CONNECTION SIZES					FEATURES	NOTES
				WASTE	VENT	TRAP	COLD WATER	HOT WATER		
HB-1	HOSE BIBB, EXTERIOR, NON-FREEZE	WOODFORD	MODEL 65	--	--	--	3/4"	--	EXPOSED STYLE, WITH ANTI-SIPHON VACUUM BREAKER, 3/4" INLET, CHROME PLATED, PROVIDE WITH TEE KEY	INSTALL AT 18" ABOVE FINISH GRADE
FD-1	FLOOR DRAIN, CONCRETE FLOOR	JAY R SMITH	FIGURE #: 2005Y-A06NB	3"	1-1/2"	3"	--	--	NO-HUB OUTLET, 6" ROUND, NICKEL BRONZE FINISH, WITH ADJUSTABLE STRAINER	INSTALL TOP OF DRAIN 1/8" BELOW FINISH FLOOR and CAULK EDGE
GCO	GROUND CLEANOUT, PAVED AREAS	JAY R SMITH	4250 SERIES	SEE PLANS	--	--	--	--	ROUND FLANGE HOUSING WITH HEAVY DUTY CAST IRON COVER, FURNISH WITH ABS PLUG, COVER TO BE INSCRIBED "SAN"	
SO-1	SAND/OIL INTERCEPTOR, 1500 GALLONS	----	----	4"	3"	--	--	--	PRECAST CONCRETE, 1500 GALLON CAPACITY, SAND/OIL INTERCEPTOR	SEE BUILDING SECTIONS FOR GENERAL INFORMATION
SP-1	HEAVY DUTY 1/2HP SUBMERSIBLE PUMP	DAYTON	MODEL 3BB83	2"	--	--	--	--	CAST IRON HOUSING, DISCHARGE NPT 2", AUTOMATIC OPERATION WITH TETHER SWITCH, INTERMITTENT DUTY, ELECTRICAL: VOLT 120, 11.9 AMPS. 1 PHASE	
RPBP-1	REDUCED PRESSURE BACKFLOW PREVENTER	WATTS	SERIES 009	--	--	--	2"	--	REDUCED PRESSURE ZONE ASSEMBLY, WITH QUARTER TURN BALL VALVES, BRONZE STRAINER, AND AIR GAP, BRONZE BODY CONSTRUCTION	

* WITH PRIOR REVIEW AND APPROVAL FROM THE ARCHITECT and OWNER EQUIVALENT FIXTURES ARE ACCEPTABLE

ELECTRIC WALL HEATER SCHEDULE

IDENTIFICATION	DESCRIPTION	MANUFACTURER	MODEL	DIMENSION		ELECTRICAL				FEATURES
				CFM	BTUH	KW	VOLTS	AMPS	PHASE	
EH-1	SURFACE MOUNTED ELECTRIC WALL HEATER	KING	KB2005-1	400	17	5/3.3	208	24	1	PROVIDE WITH WALL MOUNTING BRACKET, PROVIDE WITH BUILT-IN TAMPER-PROOF THERMOSTAT, PROVIDE FOR 45 F MIN. SETPOINT ADJUSTMENT, FIELD WIRE PER MANUFACTURE INSTRUCTIONS, INSTALLATION OF HEATERS, POWER WIRING, and DISCONNECTS BE ELECTRICAL CONTRACTOR

* WITH PRIOR REVIEW AND APPROVAL FROM THE ARCHITECT and OWNER EQUIVALENT HEATERS ARE ACCEPTABLE

LOUVER SCHEDULE

IDENTIFICATION	DESCRIPTION	MANUFACTURER	MODEL	DIMENSION		FEATURES
				WIDTH	HEIGHT	
LV-1	STATIONARY LOUVER with LOW LEAKAGE DAMPER	GREENHECK	FSJ-402	36	24	FURNISH WITH FLANGED FRAME, INSECT SCREEN, LOW LEAKAGE CONTROL DAMPER; GREENHECK VCD-23 WITH 2 POSITION 115 VAC ACTUATOR SPRING RETURN. INTERLOCK WITH GAS APPLIANCE CONTROLS AS NOTED ON PLAN

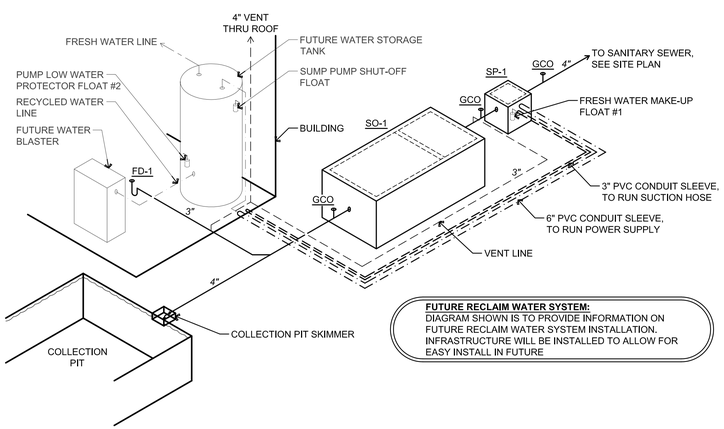
* WITH PRIOR REVIEW AND APPROVAL FROM THE ARCHITECT and OWNER EQUIVALENT LOUVERS ARE ACCEPTABLE

KEY NOTES

1. COMBUSTION AIR LOUVERS HIGH and LOW, SEE ELEVATIONS FOR MOUNTING HEIGHTS, PROVIDE WALL SWITCH TO ELECTRICALLY INTERLOCK DAMPERS TO FULL OPEN BEFORE GAS EQUIPMENT OPERATION
2. WALL MOUNTED ELECTRIC WALL HEATER, COORDINATE LOCATION WITH OTHER TRADES TO PROVIDE NECESSARY CLEARANCES
3. 10" B-VENT WASH EQUIPMENT FLUE with REQUIRED PIPE BOOT, VERIFY SIZE WITH EQUIPMENT SPECIFICATIONS
4. 2 PSI GAS SERVICE RISER and REGULATOR (1.5 MIL BTU SERVICE VERIFY)
5. SEE SITE PLAN FOR CONTINUATION
6. COORDINATE ALL PIPING ROUTING WITH OTHER TRADES and EQUIPMENT REQUIREMENTS
7. 2" WATER SUPPLY RISER TO RPBP
8. WASH RACK EQUIPMENT, COORDINATE GAS and WATER PIPING SIZE WITH EQUIPMENT REQUIREMENTS
9. 4" VENT THRU ROOF, PROVIDE PIPE BOOT AS NEEDED
10. SAND/OIL INTERCEPTOR, SEE PLUMBING SCHEDULE
11. PRECAST CONCRETE BASIN w/INFRASTRUCTURE IN PLACE FOR FUTURE SUMP PUMP INSTALLATION
12. 3" PVC CONDUIT SLEEVE WITH 90 DEGREE SWEEP ELBOW TO BE STUB INTO WASH RACK EQUIPMENT ROOM & SUMP PUMP BASIN. THIS SLEEVE SO TO ALLOW THE WASHER SUPPLIER TO RUN THEIR POWER SUPPLY FOR THE FUTURE INSTALLATION OF A SUMP PUMP WITHIN THE BASIN.
13. SLEEVE SANITARY PIPE UNDER FOUNDATION AS NEEDED
14. PIT OVERFLOW, PVC PIPE WITH 90 DEGREE ELBOW, PROVIDE GRATED CAP
15. COLLECTION PIT
16. 6" PVC CONDUIT SLEEVE WITH 90 DEGREE SWEEP ELBOW TO BE STUB INTO WASH RACK EQUIPMENT ROOM & SUMP PUMP BASIN. THIS SLEEVE SO TO ALLOW FOR WASHER SUPPLIER TO RUN THEIR SUCTION HOSE FOR THE FUTURE INSTALLATION OF THE WATER RECLAIM SYSTEM.

LINE TYPE LEGEND

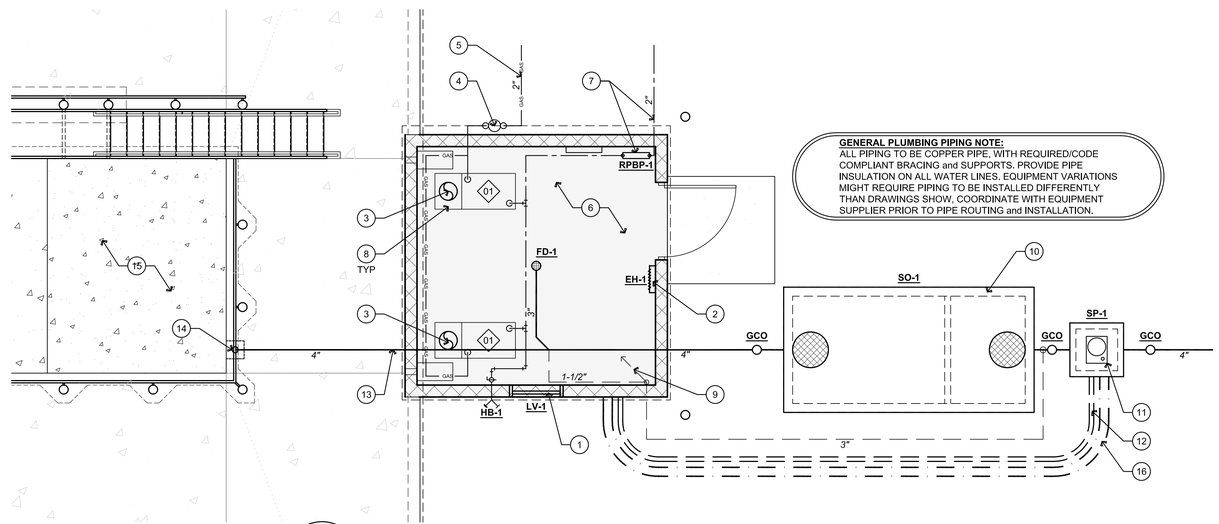
- SANITARY
- 6" PVC CONDUIT SLEEVE, TO RUN POWER SUPPLY
- 3" PVC CONDUIT SLEEVE, TO RUN SUCTION HOSE
- VENT
- FRESH WATER
- GAS



FUTURE RECLAIM WATER SYSTEM:
DIAGRAM SHOWN IS TO PROVIDE INFORMATION ON FUTURE RECLAIM WATER SYSTEM INSTALLATION. INFRASTRUCTURE WILL BE INSTALLED TO ALLOW FOR EASY INSTALL IN FUTURE

RECYCLED WATER ISOMETRIC

SCALE (FOR INFORMATION ONLY) N.T.S.



GENERAL PLUMBING PIPING NOTE:
ALL PIPING TO BE COPPER PIPE, WITH REQUIRED/CODE COMPLIANT BRACING and SUPPORTS. PROVIDE PIPE INSULATION ON ALL WATER LINES. EQUIPMENT VARIATIONS MIGHT REQUIRE PIPING TO BE INSTALLED DIFFERENTLY THAN DRAWINGS SHOW. COORDINATE WITH EQUIPMENT SUPPLIER PRIOR TO PIPE ROUTING and INSTALLATION.

NORTH

MECHANICAL/PLUMBING PLAN

SCALE 1/4" = 1'-0"

REVISIONS

DESCRIPTION	DATE

OWNER

Idaho Department of Transportation
Shoshone - Truck Wash
U.S. Highway 26 (South Rail Street West)
Shoshone, Lincoln County, Idaho 83352

COPYRIGHT 2016

Glancey◆ Rockwell & Associates
Architecture • Planning
595 S Americana Boulevard Boise, Idaho 83702
(208) 345-0566 (208) 345-1718 Fax (208) 387-0889
office@grboise.com

Licensed Architect AR-1684
5-17-2016
Peter H. Rockwell
State of Idaho

SHEET DATA

DRAWN BY:	BE
CHECKED BY:	PR
SCALE:	AS NOTED
DATE:	05.17.16
PROJECT #:	15039

SHEET NUMBER

M-1.1

SCALES ARE ACCURATE FOR 24x36 PRINTED SHEETS

ELECTRICAL ABBREVIATIONS

A	AMPERES
AC	6" ABOVE BACKSPLASH
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AF	AMP FRAME
AIC	AMPS INTERRUPTING CAPACITY
AT	AMP TRIP
ATS	AUTOMATIC TRANSFER SWITCH
AWG	AMERICAN WIRE GAUGE
C	CONDUIT
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CO	CONDUIT ONLY, PROVIDE PULL-LINE
CT	CURRENT TRANSFORMER
CTL	CONTROL
DC	DIRECT CURRENT
DEMO	DEMOLITION
DET	DETAIL
E	EMPTY/EMERGENCY
(E)	EXISTING
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
EL	EMERGENCY LIGHT
EWC	ELECTRIC WATER COOLER
EWH	ELECTRIC WATER HEATER
EXG	EXISTING
F	FUSE
FVNR	FULL VOLTAGE NON-REVERSING
FYR	FULL VOLTAGE REVERSING
G/GND	GROUND
GFI	GROUND FAULT INTERRUPTION
HH	HANDHOLE
HID	HIGH INTENSITY DISCHARGE
HOA	HAND-OFF-AUTO
HPS	HIGH PRESSURE SODIUM
HT	HEIGHT
HVAC	HEATING, VENTILATING, & AIR CONDITIONING
IC	INTERRUPTING CAPACITY
IG	ISOLATED GROUND
IPCO	IDAHO POWER COMPANY
JJB	JUNCTION BOX
KA	KILOAMP
KW	KILOWATT
KWH	KILOWATT HOUR
M	MAGNETIC CONTACTOR COIL
MB	MAIN BREAKER
MC	MECHANICAL CONTRACTOR
MCB	MAIN CIRCUIT BREAKER
MCC	MOTOR CONTROL CENTER
MLO	MAIN LUGS ONLY
MS	MOTOR STARTER
MH	MANHOLE
MH	METAL HALIDE
MTG	MOUNTING
N	NEUTRAL
NC	NORMALLY CLOSED
NEC	NATIONAL ELECTRICAL CODE
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OH	OVERHEAD
OL	OVERLOAD
OS	OCCUPANCY SENSOR
OFCI	OWNER FURNISHED CONTRACTOR INSTALLED
PC	PHOTOCELL
PNL	PANEL
PT	POTENTIAL TRANSFORMER
PVC	POLYVINYL CHLORIDE
PWR	POWER
REC	RECEPTACLE
(R)	RELOCATED
SF	SQUARE FEET
T	TELEPHONE
TB	TERMINAL BOARD
TBD	TO BE DETERMINED
TC	TIME CLOCK
TDR	TIME DELAY RELAY
TJB	TERMINAL JUNCTION BOX
TSP	TWISTED SHIELDED PAIR
TTB	TELEPHONE TERMINAL BOARD
TYP	TYPICAL
UG	UNDERGROUND
UH	UNIT HEATER
UNO	UNLESS NOTED OTHERWISE
V	VOLT
VA	VOLT-AMPERE
WP	WEATHER PROOF/NEMA 3R
XFMR	TRANSFORMER
X	EXPLOSION PROOF
XFR	TRANSFER

LIGHTING SYMBOLS
see luminaire schedule for mounting and fixture type

- 2'x4' ARCHITECTURAL LUMINAIRE
- 2'x4' PARABOLIC LUMINAIRE
- 2'x4' LUMINAIRE
- 2'x4' LUMINAIRE WITH EMERGENCY POWER SOURCE AS NOTED
- 1'x4' LUMINAIRE
- 1'x4' LUMINAIRE WITH EMERGENCY POWER SOURCE AS NOTED
- 2'x2' PARABOLIC LUMINAIRE
- 2'x2' LUMINAIRE
- 2'x2' LUMINAIRE WITH EMERGENCY POWER SOURCE AS NOTED
- SURFACE CABLE DOWN LUMINAIRE
- SURFACE CABLE DOWN LUMINAIRE
- SURFACE PENDANT LUMINAIRE
- SURFACE UPLIGHT LUMINAIRE
- STEP LUMINAIRE
- RECESSED WALLWASH LUMINAIRE
- RECESSED SLOPED CEILING LUMINAIRE
- RECESSED ACCENT LUMINAIRE
- RECESSED LUMINAIRE
- RECESSED LUMINAIRE WITH EMERGENCY POWER SOURCE AS NOTED
- INDIRECT LUMINAIRE (LENGTH AS INDICATED ON DWGS) GRID CEILINGS: PROVIDE WITH UL LISTED GRID JUNCTION BOX. EXCESS AIRCRAFT CABLE TO BE COILED AND CONCEALED IN FIXTURE. **DO NOT CUT OFF EXCESS AIRCRAFT CABLE**; VERIFY FINAL MOUNTING HEIGHT WITH OWNER; SEE DETAIL ON DETAIL SHEET(S)
- INDIRECT LUMINARIES WITH EMERGENCY POWER SOURCE AS NOTED (LENGTH AS INDICATED ON DWGS) GRID CEILINGS: PROVIDE WITH UL LISTED GRID JUNCTION BOX. EXCESS AIRCRAFT CABLE TO BE COILED AND CONCEALED IN FIXTURE. **DO NOT CUT OFF EXCESS AIRCRAFT CABLE**; VERIFY FINAL MOUNTING HEIGHT WITH OWNER; SEE DETAIL ON DETAIL SHEET(S)
- 4' WALL FIXTURE
- 4' WALL FIXTURE WITH EMERGENCY POWER SOURCE AS NOTED
- 2' WALL FIXTURE
- 2' WALL FIXTURE WITH EMERGENCY POWER SOURCE AS NOTED
- 3' WALL FIXTURE
- EMERGENCY LUMINAIRE
- SURFACE/WALL MOUNTED FLOOD LIGHT
- TRACK LUMINAIRE HEAD MOUNTED AS INDICATED
- ROUND LUMINAIRE
- WALL MOUNTED LUMINAIRE
- TC — TIMECLOCK
- P — PHOTOCELL
- OC — OCCUPANCY SENSOR- FOR 1-POLE LINE VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR, SENSOR SWITCH NO, CMR-PDT OR PRE-BID APPROVED EQUAL. OCCUPANCY SENSOR TO BE INSTALLED NO LESS THAN 3FT FROM ANY HVAC DIFFUSERS. FOR 2-POLE LINE VOLTAGE CEILING MOUNTED OCCUPANCY SENSOR, SENSOR SWITCH NO, CMR-PDT-2P OR PRE-BID APPROVED EQUAL. OCCUPANCY SENSOR TO BE INSTALLED NO LESS THAN 3FT FROM ANY HVAC DIFFUSERS.
- POLE LIGHT WITH ONE HEAD ARM MOUNTED
- POLE LIGHT WITH TWO HEADS ARM MOUNTED
- WALLPACK LUMINAIRE
- WALLPACK LUMINAIRE WITH EMERGENCY POWER SOURCE AS NOTED
- LIGHTING CONTACTOR TO BE NEMA 1 UNLESS OTHERWISE NOTED. SIZE, POLES, AND TYPE AS INDICATED ON DRAWING
- CEILING MOUNTED EXIT SIGN, DOUBLE FACE
- WALL MOUNTED EXIT SIGN, DOUBLE FACE
- CEILING MOUNTED EXIT SIGN, SINGLE FACE
- WALL MOUNTED EXIT SIGN, SINGLE FACE
- WALL MOUNTED EXIT SIGN/ EMERGENCY LIGHT COMBO UNIT, SINGLE FACE
- ARROW INDICATES DIRECTION TO BE SHOWN ON SIGN
- MOUNTING TYPE — ALL / X XX / UNO — LAMP TYPE AND NUMBER TO DIFFERENTIATE LUMINAIRE E-DESIGNATES FIXTURE WITH EMERGENCY BALLAST

FLUORESCENT FIXTURES WITH AN 'E' DESIGNATION ARE TO BE SUPPLIED WITH BODINE 90 MINUTE EMERGENCY BATTERY PACK (OR EQUAL) SUITABLE FOR THAT FIXTURES LAMP TYPE AND TO PRODUCE 50% OF THE ORIGINAL LIGHT OUTPUT.

METAL HALIDE OR HIGH PRESSURE SODIUM FIXTURES WITH AN 'E' DESIGNATION ARE TO BE SUPPLIED WITH A LOW VOLTAGE LAMP AND CIRCUIT. A BATTERY PACK WHICH IS RATED FOR 50W OUTPUT AND 90 MINUTES IS ALSO TO BE SUPPLIED. THE BATTERY PACK IS TO BE MOUNTED INSIDE THE BUILDING ENVELOP IN THE CEILING SPACE.

ELECTRICAL DEVICE SYMBOLS
see electrical specifications for further information

- $S — DUAL LEVEL SWITCHING, INSIDE AND OUTSIDE LAMPS OF FIXTURE TO BE SWITCHED SEPARATELY.
- SINGLE RECEPTACLE. MOUNT AT +18" AFF UNLESS OTHERWISE NOTED.
- SINGLE RECEPTACLE. MOUNTED IN FLOOR, TYPE OF BOX AS INDICATED.
- DUPLEX RECEPTACLE. MOUNT AT +18" AFF UNLESS OTHERWISE NOTED.
- C — CEILING MOUNTED
- DUPLEX RECEPTACLE, HALF OF RECEPTACLE SHALL BE SWITCHED. MOUNT AT +18" AFF UNLESS NOTED OTHERWISE.
- DUPLEX RECEPTACLE. MOUNTED IN FLOOR. TYPE OF BOX AS INDICATED.
- FOURPLEX RECEPTACLE. MOUNT AT +18" AFF UNLESS OTHERWISE NOTED.
- FOURPLEX RECEPTACLE. MOUNTED IN FLOOR. TYPE OF BOX AS INDICATED.
- $ — SWITCH SUBSCRIPT INDICATES TYPE OF SWITCH. MOUNT AT +46" AFF UNLESS NOTED OTHERWISE
  - D DIMMER
  - K KEYED
  - LV LOW VOLTAGE
  - M MOMENTARY CONTACT
  - OV OVERRIDE
  - OC OCCUPANCY SENSOR; SEE DRAWINGS FOR ADDITIONAL INFORMATION. FOR 2-POLE, LINE VOLTAGE OCCUPANCY SENSOR, FURNISH AND INSTALL DUAL LEVEL SWITCHING. SENSORS EQUAL IN WATTSTOPPER AND SENSOR SWITCH.
  - P PILOT LIGHT
  - TO THERMAL OVERLOAD (THE NUMBER OF POLES TO MATCH CIRCUIT REQUIREMENTS AND BE SIZED FOR ASSOCIATED MOTOR LOAD.)
  - 2 DOUBLE POLE
  - 3 THREE WAY
  - 4 FOUR WAY
  - a SUPERSCRIPT INDICATES LIGHTS TO BE SWITCHED
- MOTOR STARTER/CONTACTOR TO BE NEMA 1 UNLESS NOTED OTHERWISE. SIZE AND TYPE AS INDICATED ON DRAWING.
- COMBINATION MOTOR STARTER AND DISCONNECT TO BE NEMA 1 UNLESS NOTED OTHERWISE. SIZE AND TYPE AS INDICATED ON DRAWING.
- FUSED DISCONNECT SWITCH TO BE NEMA 1 UNLESS NOTED OTHERWISE. SIZE AND POLES AS INDICATED.
- NON-FUSED DISCONNECT SWITCH TO BE NEMA 1 UNLESS NOTED OTHERWISE. SIZE AND POLES AS INDICATED.
- T — THERMOSTAT MOUNTED AT +48" AFF UNLESS NOTED OTHERWISE. MECHANICAL UNIT TO BE CONTROLLED AS INDICATED
- A — AQUASTAT
- EQUIPMENT CONNECTION POINT. VERIFY TYPE OF CONNECTION WITH EQUIPMENT SUPPLIER. DIVISION 16 TO SUPPLY ALL RACEWAY AND CONDUCTORS UNLESS NOTED OTHERWISE
- EQUIPMENT CONNECTION POINT MOUNTED IN FLOOR. TYPE OF BOX AS INDICATED. VERIFY TYPE OF CONNECTION WITH EQUIPMENT SUPPLIER. DIVISION 16 TO SUPPLY ALL RACEWAY AND CONDUCTORS UNLESS NOTED OTHERWISE
- GROUND ROD; 5/8" BY 10' MINIMUM, COPPER-CLAD
- J — JUNCTION BOX
- WALL MOUNTED PUSHBUTTON. MOUNT AT +46" AFF UNLESS NOTED OTHERWISE
- 3 BUTTON DOOR CONTROLLER
- 2 BUTTON DOOR CONTROLLER
- T# / T or T# — TRANSFORMER. SIZE AND TYPE AS INDICATED # = TRANSFORMER DESIGNATION
- $TO / M — MOTOR WITH THERMAL OVERLOAD
- M — MOTOR
- ## or ## — PANELBOARD. SEE ELECTRICAL SCHEDULES FOR TYPE, SIZE AND MOUNTING # = PANELBOARD DESIGNATION
- EQUIPMENT CABINET, SURFACE MOUNTED
- EQUIPMENT CABINET, FLUSH MOUNTED
- WALL MOUNTED CIRCUIT BREAKER. TYPE AND SIZE AS INDICATED
- WM / PM — RACEWAY MOUNT RECEPTACLES AS SHOWN. MOUNTING OF RACEWAY AS INDICATED
- # / # — MECHANICAL EQUIPMENT CALL OUT

ONE LINE SYMBOLS
see electrical specifications for further information

- ATS #A #P — AUTOMATIC TRANSFER SWITCH, SIZE AND POLES AS INDICATED ON DRAWING
- #A #P — CIRCUIT BREAKER; SIZE AND POLES AS INDICATED ON DRAWING
- PANEL — PANELBOARD; NAME, SIZE, TYPE AS INDICATED ON DRAWINGS
- PAD MOUNTED TRANSFORMER BY LOCAL UTILITY
- M — METER
- GROUND BAR
- S — SECTOR SWITCH

CIRCUITING SYMBOLS
see electrical specifications for further information

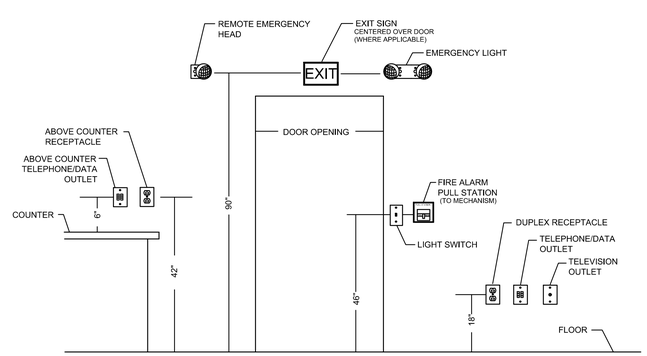
- NEUTRAL
- ISOLATED GROUND
- GROUNDING CONDUCTOR
- CURRENT CARRYING CONDUCTORS
- A-2,4,6 3/4" MIN. PANEL HOMERUN
- EM — EMERGENCY POWER SOURCE
- CIRCUIT CONCEALED IN WALL OR CEILING TYPICALLY TO BE 3#12-1#12G,3/4"C (UNO)
- CONDUIT SIZE
- QUANTITY AND SIZE OF CONDUCTORS
- QUANTITY AND SIZE OF GROUNDING CONDUCTOR
- 2 — BEGINNING OF CIRCUIT AND NUMBER OF CIRCUIT
- CONDUIT UP
- CONDUIT DOWN
- UNDERGROUND OR CONCEALED CONDUIT
- EXISTING CONDUIT
- CONDUIT STUBBED, CAPPED, MARKED, AND PROVIDED WITH PULLSTRING
- FUTURE CONDUIT

LINE TYPES

- EXISTING
- DEMOLITION
- FUTURE
- NEW

ELECTRICAL DRAWING SHEET INDEX

E0.0	ELECTRICAL SYMBOLS AND SHEET INDEX
E1.0	ELECTRICAL SITE PLAN
E2.0LP	LIGHTING AND POWER PLANS
E3.0	ONE LINE DIAGRAM AND ELECTRICAL DETAILS
E3.1	ELECTRICAL SCHEDULES
E3.2	ENERGY COMPLIANCE FORMS



MOUNTING HEIGHT DETAIL
UNLESS NOTED OTHERWISE

ELECTRICAL SYMBOLS LIST AND SHEET INDEX
SCALE: NTS

PROFESSIONAL ENGINEER LICENSED 16238 4/1/16 STATE OF IDAHO KEITH W. ADAMS

e2co electricalengineeringcompany
engineering 4 tomorrow
world wide web: e2co.com
800 s. industry way, suite 350
meridian, idaho 83642
phone: 208.378.4450
fax: 208.378.4451
e2co project #: 16001

SCALES ARE ACCURATE FOR 24x36 PRINTED SHEETS

REVISIONS

DESCRIPTION	DATE

OWNER

Idaho Department of Transportation
Shoshone - Truck Wash
U.S. Highway 26 (South Rail Street West)
Shoshone, Lincoln County, Idaho 83352

COPYRIGHT 2016

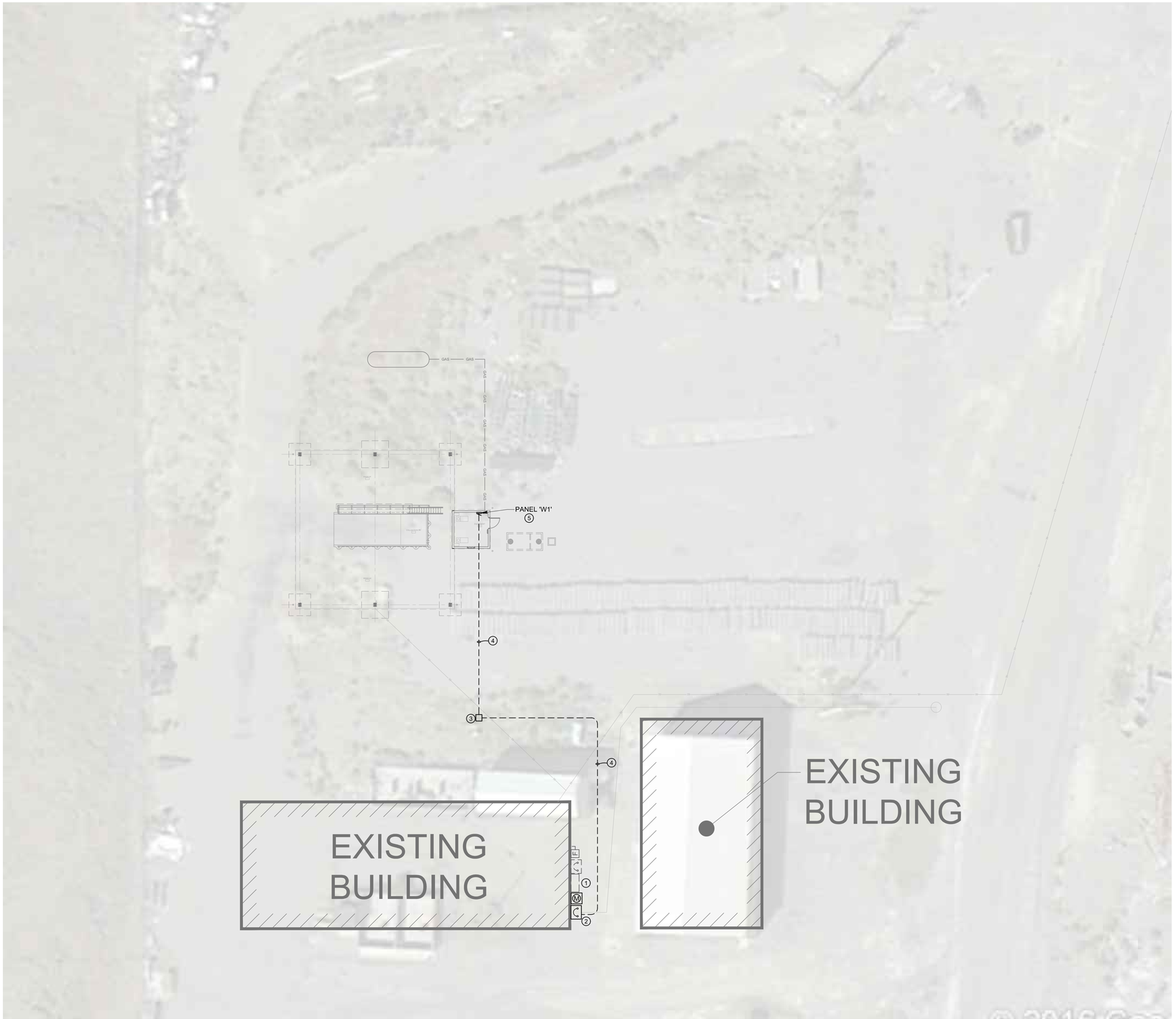
Glancey Rockwell & Associates
Architecture Planning
595 S Americana Boulevard Boise, Idaho 83702
(208) 345-0566 (208) 345-1718 Fax (208) 387-0889
office@grboise.com

SHEET DATA

DRAWN BY:	KWA
CHECKED BY:	JVS
SCALE:	AS NOTED
DATE:	04.12.16
PROJECT #:	15039

SHEET NUMBER

E0.0



ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"

GENERAL NOTES:

1 COORDINATE ALL UNDERGROUND SITE WORK WITH OTHER DISCIPLINES TO AVOID REWORK.

2 ALL PENETRATIONS THROUGH SLAB ARE TO BE PVC COATED RIGID CONDUIT, SCOTCH WRAP IS NOT PERMITTED.

3 ALL UNDERGROUND CONDUIT SHALL BE 1" SCHEDULE 40 PVC; UNLESS NOTED OTHERWISE.

4 SEE TRENCH DETAIL ON DETAIL SHEET(S) FOR INSTALLATION OF ALL UNDERGROUND CONDUITS.

KEYED NOTES:

1 EXISTING SERVICE ENTRANCE EQUIPMENT LOCATED ON EXISITNG MAINTENANCE BUILDING. SEE ONE-LINE DIAGRAM FOR ADDITIONAL INFORMATION. EXISTING SERVICE IS RATED AT 240/120 1-PHASE, 400A.

2 TAP IN EXISTING CT ENCLOSURE AND FEED NEW 200A ENCLOSED CIRCUIT BREAKER TO FEED NEW TRUCK WASH. SEE ONE-LINE DIAGRAM ON SHEET E3.0 FOR ADDITIONAL INFORMATION.

3 FURNISH AND INSTALL 24"X24"X24" CONCRETE PULL VAULT WITH OPEN BOTTOM. CORE DRILL VAULT AS REQUIRED FOR CONDUIT PENETRATIONS. PROVIDE 12" GRAVEL BASE FOR DRAINAGE BENEATH VAULT.

4 FURNISH AND INSTALL NEW UNDERGROUND CONDUIT AND CONDUCTORS FROM ENCLOSED BREAKER TO NEW PANEL 'W1' AT NEW TRUCK WASH BUILDING AS INDCATED. SEE ONE LINE DIAGRAM ON SHEET E3.0 FOR ADDITIONAL INFORMATION.

5 LOCATION OF NEW PANEL 'W1', SHOWN FOR REFERENCE ONLY. FIELD COORDINATE EXACT LOCATION, SEE PLAN VIEW SHEETS FOR ADDITIONAL INFORMATION.

REVISIONS

DESCRIPTION	DATE

OWNER

Idaho Department of Transportation
Shoshone - Truck Wash
U.S. Highway 26 (South Rail Street West)
Shoshone, Lincoln County, Idaho 83352

COPYRIGHT
2016

Glancey Rockwell & Associates
Architecture Planning
595 S Americana Boulevard Boise, Idaho 83702
(208) 345-0566 (208) 345-1718 Fax (208) 387-0889
office@grboise.com

PROFESSIONAL ENGINEER LICENSED 16238 4/12/16 STATE OF IDAHO KEITH W. ADAMS

SHEET DATA

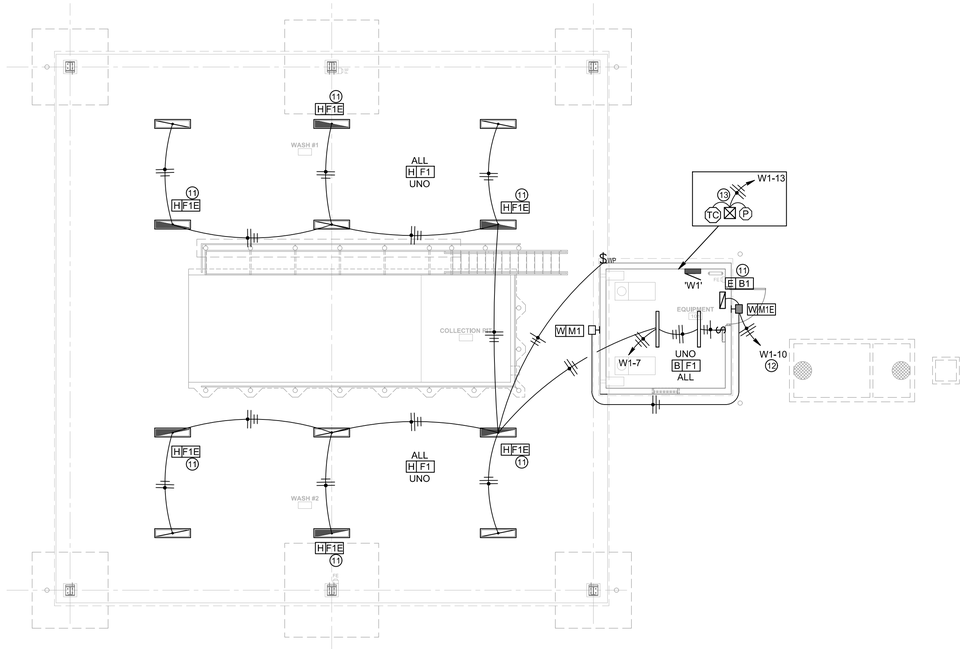
DRAWN BY:	KWA
CHECKED BY:	JVS
SCALE:	AS NOTED
DATE:	04.12.16
PROJECT #:	15039

SHEET NUMBER

E1.0

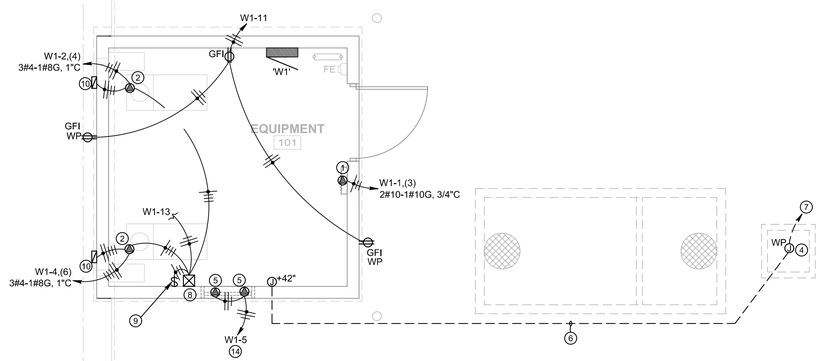
e2co electricalengineeringcompany
engineering 4 tomorrow
world wide web: e2co.com
800 s. industry way, suite 350
meridian, idaho 83642
phone: 208.378.4450
fax: 208.378.4451
e2co project #: 16001

SCALES ARE ACCURATE FOR 24x36 PRINTED SHEETS



LIGHTING PLAN

SCALE: 1/8" = 1'-0"



POWER PLAN

SCALE: 1/4" = 1'-0"

GENERAL NOTES:

1 ALL EMERGENCY FIXTURES SHALL BE PROVIDED WITH AN EMERGENCY BATTERY PACK AS SPECIFIED ON THE FIXTURE SCHEDULE AND THE EMERGENCY FIXTURE SHALL BE PROVIDED WITH AND UNSWITCHED LEG THAT SHALL BE CONNECTED TO THE EMERGENCY BATTERY PACK.

2 ALL EXTERIOR FLUORESCENT LIGHT FIXTURES ARE TO BE PROVIDED WITH COLD WEATHER BALLASTS.

KEYED NOTES:

1 CONNECTION TO ELECTRIC HEATER. COORDINATE CONNECTION TYPE AND LOCATION WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

2 CONNECTION TO HOTSY PRESSURE WASHER. COORDINATE CONNECTION TYPE AND LOCATION WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

3 NOT USED.

4 JUNCTION BOX FOR FUTURE CONNECTION TO SUMP PUMP.

5 CONNECTION TO MOTORIZED WALL LOUVERS. PROVIDE CONNECTION FOR (2) WALL LOUVERS, (1) HIGH AND (1) LOW; SEE ARCHITECTURAL PLANS FOR ELEVATIONS. COORDINATE CONNECTION TYPE AND LOCATION WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

6 FURNISH AND INSTALL (1) 1" EMPTY CONDUIT WITH PULL STRING TO BUILDING FOR FUTURE WATER TANK FLOAT CONTROL. COORDINATE CONNECTION.

7 STUB (1) 3/4" EMPTY CONDUIT WITH PULL STRING FROM JUNCTION BOX TO PANEL 'W1' FOR FUTURE POWER.

8 CONTRACTOR TO FURNISH AND INSTALL CONTACTOR/RELAY ASSEMBLY TO INTERCONNECT MOTORIZED LOUVERS WITH HOTSY CONTROL PANELS. LOUVERS SHALL OPEN WHEN EITHER HOTSY IS 'ON'. ROUTE CONDUIT AND CONDUCTORS TO EACH HOTSY CONTROL PANEL FOR SIGNAL CIRCUIT. COORDINATE INTERCONNECTION WITH EQUIPMENT SUPPLIER PRIOR TO ROUGH-IN.

9 FURNISH AND INSTALL OVERRIDE SWITCH FOR MANUAL CONTROL OF LOUVERS.

10 LOCATION OF HOTSY CONTROL PANEL. PROVIDE CONDUIT AND CONDUCTORS AS REQUIRED PER MANUFACTURES RECOMMENDATIONS.

11 CONNECT BATTERY PACK TO UNSWITCHED LEG OF LIGHTING CIRCUIT. CARRY UNSWITCHED LEG THROUGH RACEWAY SYSTEM TO BATTERY PACK.

12 ROUTE CIRCUIT THROUGH EXTERIOR LIGHTING CONTACTOR CONTROLLED BY PHOTOCELL AND TIMECLOCK, SEE EXTERIOR LIGHTING CONTACTOR DETAIL ON SHEET E3.1.

13 EXTERIOR LIGHTING CONTACTOR, TIMECLOCK AND PHOTOCELL. PHOTOCELL MOUNTED 12" ABOVE ROOF FACING NORTH. SEE EXTERIOR LIGHTING CONTACTOR DETAIL ON SHEET E3.1.

14 ROUTE CIRCUIT THROUGH CONTACTOR CONTROLLED BY HOTSY CONTROL PANEL, SEE CONTACTOR DETAIL ON SHEET E3.1.

REVISIONS

DESCRIPTION	DATE

OWNER

Idaho Department of Transportation
Shoshone - Truck Wash
U.S. Highway 26 (South Rail Street West)
Shoshone, Lincoln County, Idaho 83352

COPYRIGHT
2016

Glancey Rockwell & Associates
Architecture Planning
595 S Americana Boulevard Boise, Idaho 83702
(208) 345-0566 (208) 345-1718 Fax (208) 387-0889
office@grboise.com

PROFESSIONAL ENGINEER LICENSED 16238 4/12/16 STATE OF IDAHO KEITH W. ADAMS

SHEET DATA

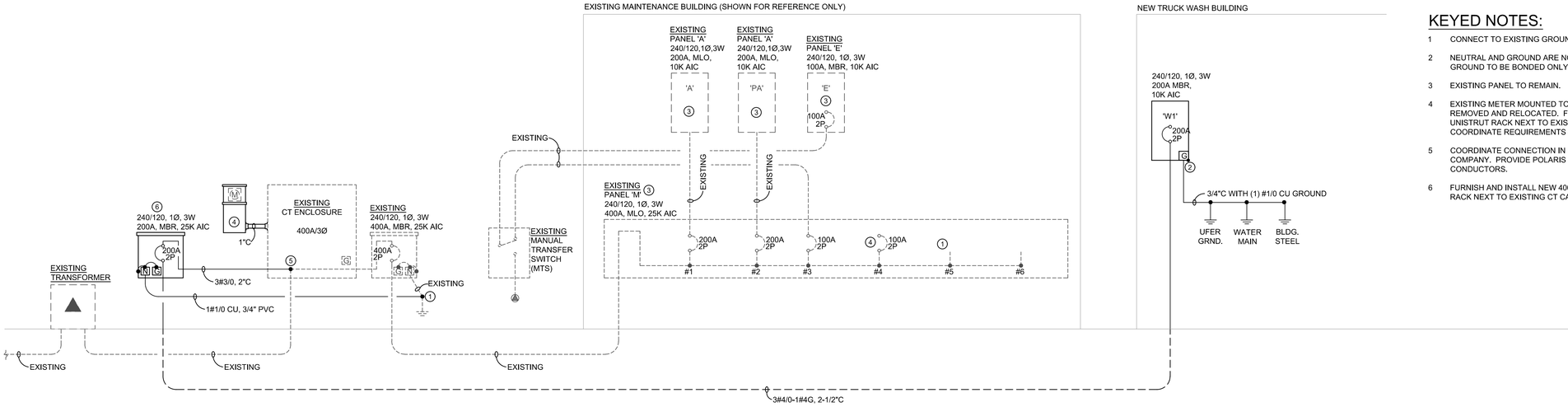
DRAWN BY:	KWA
CHECKED BY:	JVS
SCALE:	AS NOTED
DATE:	04.12.16
PROJECT #:	15039

SHEET NUMBER

E2.0LP

e2co electricalengineeringcompany
engineering 4 tomorrow
world wide web: e2co.com
800 s. industry way, suite 350
meridian, idaho 83642
phone: 208.378.4450
fax: 208.378.4451
e2co project #: 16001

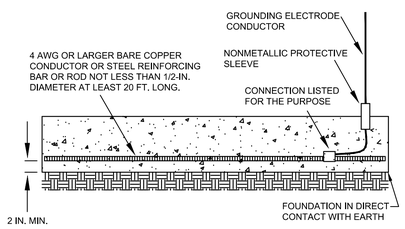
SCALES ARE ACCURATE FOR 24x36 PRINTED SHEETS



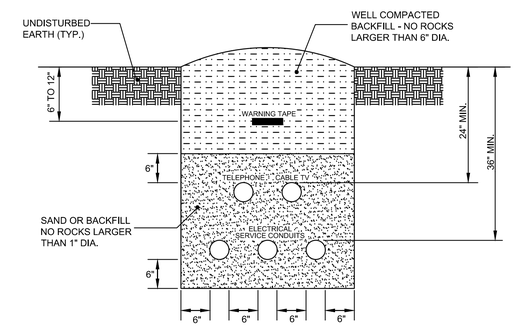
ONE-LINE DIAGRAM

KEYED NOTES:

1. CONNECT TO EXISTING GROUNDING ELECTRODE SYSTEM AS REQUIRED.
2. NEUTRAL AND GROUND ARE NOT TO BE BONDED IN THIS PANEL. NEUTRAL AND GROUND TO BE BONDED ONLY AT THE MAIN SERVICE ENTRANCE DISCONNECT.
3. EXISTING PANEL TO REMAIN.
4. EXISTING METER MOUNTED TO THE SIDE OF THE EXISTING CT CABINET IS TO BE REMOVED AND RELOCATED. FURNISH AND INSTALL NEW METER BASE ON UNISTRUT RACK NEXT TO EXISTING CT CABINET WITH 1" CONDUIT TO CT CABINET. COORDINATE REQUIREMENTS WITH IDAHO POWER COMPANY.
5. COORDINATE CONNECTION IN EXISTING CT CABINET WITH IDAHO POWER COMPANY. PROVIDE POLARIS TYPE TAPS AS REQUIRED TO TAP EXISTING CONDUCTORS.
6. FURNISH AND INSTALL NEW 400A/2P ENCLOSED CIRCUIT BREAKER ON UNISTRUT RACK NEXT TO EXISTING CT CABINET.



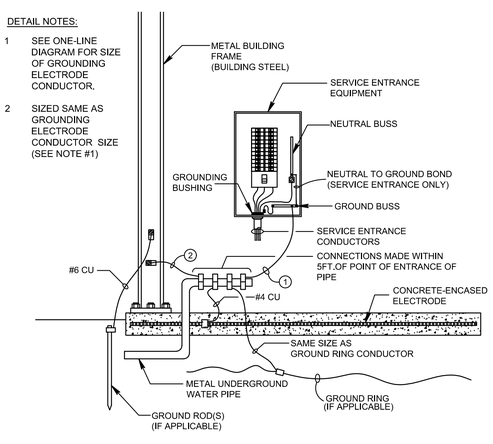
CONCRETE ENCASED ELECTRODE DETAIL



UNDERGROUND CONDUIT TRENCH DETAIL

DETAIL NOTES:

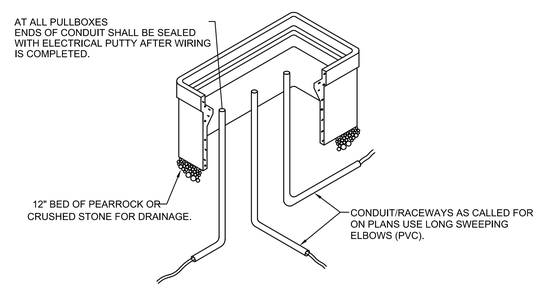
1. SEE ONE-LINE DIAGRAM FOR SIZE OF GROUNDING ELECTRODE CONDUCTOR.
2. SIZED SAME AS GROUNDING ELECTRODE CONDUCTOR SIZE (SEE NOTE #1)



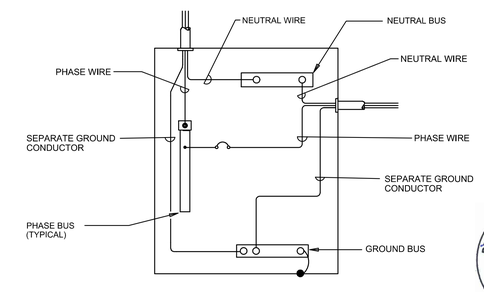
GROUNDING ELECTRODE SYSTEM DETAIL

NOTES:

1) CONDUITS NOT TERMINATING IN OR AT PULLBOXES NEED NOT RUN THROUGH PULLBOXES UNLESS RQUIRED FOR PULLING NEC.
2) DIMENSIONS AS INDICATED ON DRAWINGS
3) COVER TO BE PROVIDED (LABEL ELECTRICAL): TRAFFIC RATED
4) PROVIDE EXTENSIONS AS REQUIRED.
5) PULLBOX TO BE: PRECAST; AMCOR OR EQUAL



ELECTRICAL PULLBOX DETAIL



TYPICAL ELECTRICAL PANEL DETAIL

PROFESSIONAL ENGINEER LICENSED 16238 4/8/16 STATE OF IDAHO KEITH W. ADAMS

ONE LINE DIAGRAM AND ELECTRICAL DETAILS

SCALE: NTS

SCALES ARE ACCURATE FOR 24x36 PRINTED SHEETS

REVISIONS

DESCRIPTION	DATE

OWNER

Idaho Department of Transportation
Shoshone - Truck Wash
U.S. Highway 26 (South Rail Street West)
Shoshone, Lincoln County, Idaho 83352

COPYRIGHT 2016

Glancey Rockwell & Associates
Architecture Planning
595 S Americana Boulevard Boise, Idaho 83702
(208) 345-0566 (208) 345-1718 Fax (208) 387-0889
office@grboise.com

SHEET DATA

DRAWN BY:	KWA
CHECKED BY:	JVS
SCALE:	AS NOTED
DATE:	04.12.16
PROJECT #:	15039

SHEET NUMBER

E3.0

e2co electricalengineeringcompany
engineering 4 tomorrow
world wide web: e2co.com
800 s. industry way, suite 350
meridian, idaho 83642
phone: 208.378.4450
fax: 208.378.4451
e2co project #: 16001

LIGHTING FIXTURE SCHEDULE - ITD Truck Wash

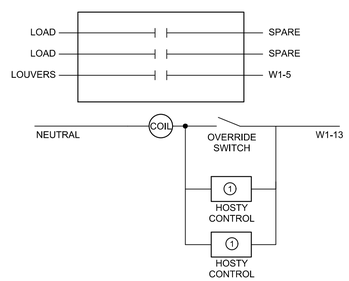
TYPE	DESCRIPTION	MANUFACTURER	CATALOG NUMBER	MOUNTING	LAMPS	VOLTAGE	REMARKS
EB1	EMERGENCY BATTERY PACK MAINTENANCE FREE NI-CAD BATTERY	LIGHTGUARD LIGHTOLIER NO.	V12N50W E4250NW	ABOVE ACCESSIBLE CEILING	NONE	120/277	2
BF1	BARE FLUORESCENT STRIP, 4'FT WIRE GUARD, CHAIN HANGERS	HEW LIGHTOLIER NO.	76-4-232-WG7614-VBY3-EB2-UNV SW4S232HPF UNV HI/AH5CSP/AWG3WCSP	CHAIN HUNG	(2) 32W T8 3500K	120/277	2
HF1	HIGH BAY FLOURESCENT, 1'X4' 4-LAMP HIGH-PRESSURE HOSE-DOWN AIR CRAFT CABLE HUNG, W/ COLD WEATHER BALLAST	HEW LDPI	EGL4-4-32-HIA-3WC6-EB4(CW)-UNV-SSMB 379-T8-4L-4-UNV1-A-HB-CM-W/12' CORD	CEILING PENDANT	(4) 32W T8 3500K	120/277	1,2
HF1E	HIGH BAY FLOURESCENT, 1'X4' 4-LAMP HIGH-PRESSURE HOSE-DOWN AIR CRAFT CABLE HUNG, W/ COLD WEATHER BALLAST & BATTERY	HEW LDPI	EGL4-4-32-HIA-4WC6-EB4(CW)-UNV-SSMB-EM (CW) 379-T8-4L-4-UNV1-A-HB-CM-W/12' CORD-EM	CEILING PENDANT	(4) 32W T8 3500K	120/277	1,2,4
WM1	WALL PACK, METAL HALIDE DIE-CAST ALUMINUM HOUSING CLEAR POLYCARBONATE, CUTOFF REFRACTOR	JLG-ACCULITE EXCELINE NO.	DT-70PS-QT-FT-L 613 70 PMA L 8	WALL BUILDING 9'-0" AFG	WITH FIXTURE	MULTI	2
WM1E	WALL PACK, METAL HALIDE DIE-CAST ALUMINUM HOUSING CLEAR POLYCARBONATE, CUTOFF REFRACTOR EMERGENCY CIRCUIT	JLG-ACCULITE EXCELINE NO.	DT-70PS-QT-FT-L-DC12 613 70 PMA L 8 EM	WALL BUILDING 9'-0" AFG	WITH FIXTURE	MULTI	2,3

REMARKS

1. PROVIDE DUAL BALLASTS FOR DUAL LEVEL SWITCHING
2. OR PRE-BID APPROVED EQUAL
3. PROVIDE WITH 35W QUARTZ BAYONETTE STYLE LAMP FOR EMERGENCY LIGHTING
4. PROVIDE WITH BODINE EMERGENCY BATTERY PACK SUITABLE FOR LAMP TYPE AND HALF THE LAMP LUMEN OUTPUT, PROVIDE WITH SELF TEST LIGHT AND PUSHBUTTON.
5. SEE LIGHTING DRAWINGS AND LIGHITNG CONTROL PANEL SCHEDULES FOR ADDITIONAL INFORMATION INCLUDING NUMBER AND TYPE OF RELAYS. CONTRACTOR SHALL INCLUDE FACTORY START-UP AND PROGRAMMING OF THE LIGHTING CONTOL SYSTEM

NOTE TO BIDDERS:

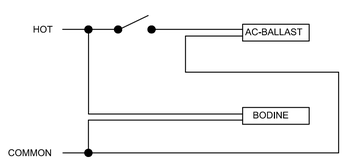
1. BID ONLY PRODUCTS THAT ARE SPECIFIED OR APPORVED VIA ADDENDUM. SUBMITTED ITEMS NOR APPROVED VIA ADDENDUM WILL BE REJECTED
2. PACKAGING OF LIGHT FIXTURES WITH OTHER SYSTEMS IS NOT ALLOWED
3. WHEN ONLY ONE PRODUCT IS APPROVED FOR BIDDING, THE PRICE FOR THAT ITEM SHALL BE BROKEN OUT SEPERATELY WHEN SUBMITTING PRICING TO THE VARIOUS DISTRIBUTORS AND/OR CONTRACTORS AS REQUESTED.
4. OSRAM, ADVANCED, UNIVERSAL, LUTRON BALLASTS ARE APPROVED. OTHER MUST BE PRE-BID APPROVED.
5. SYLVANIA, GE, PHILLIPS, USHIO AND VENTURE LAMPS ARE APPROVED. ALL OTHERS MUST BE PRE-BID APPROVED.



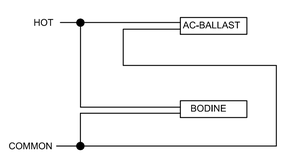
CONTACTOR DETAIL KEYED NOTES:

1. VERIFY WITH MANUFACTURE FOR EXACT REQUIREMENTS.

HOTSY/LOUVER INTERLOCK DETAIL

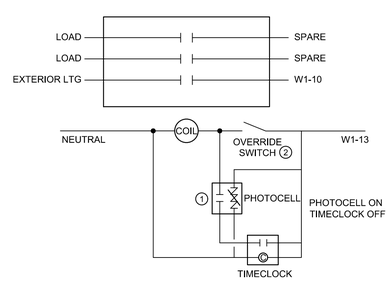


SWITCHED FIXTURE



UNSWITCHED FIXTURE

WIRING DIAGRAM FOR LIGHTING AND BODINE EMERGENCY FIXTURE BALLASTS



CONTACTOR DETAIL KEYED NOTES:

1 MOUNT PHOTOCELL 12" ABOVE ROOF FACING NORTH.

2 MOUNT OVERRIDE SWITCH ON WALL NEXT TO CONTACTOR

EXTERIOR LIGHTING CONTACTOR DETAIL

PANEL: W1 | PROJECT: ITD TRUCK WASH SHOSHONE | ENCLOSURE TYPE: NEMA 1, LOCKABLE
VOLTAGE: 240/120 | PHASE: 1 | WIRE: 3 | AMPERE RATING: 200 AMPS | SC RATING: 10000 AIC
ENTRY: TOP/BOTTOM | TYPE: MBR | MOUNTING: SURFACE
REMARKS: IF CONTRACTOR UTILIZES MULTIWIRE BRANCH CIRCUITS THEN CONTRACTOR SHALL PROVIDE BREAKER TIES SO THAT ALL UNGROUNDED CONDUCTORS ARE SIMULTANEOUSLY DISCONNECTED PER SECTION 210.4(B) OF THE NEC

CKT NO.	DESCRIPTION	AMPS/ POLES		LOAD W	LOAD AMPS	WIRE SIZE	PHASE (W) A	PHASE (W) C	WIRE SIZE	LOAD AMPS	LOAD W	AMPS/ POLES		DESCRIPTION	CKT NO.
1	ELECTRIC HEATER	30	2	2000	16.7	10	7040		6	42.0	5040	60	2	HOTSY #1	2
3		30		2000	16.7	10		7040	6	42.0	5040	60			4
5	MOTORIZED LOUVER	20	1	200	1.7	12	5240		6	42.0	5040	60	2	HOTSY #2	6
7	LTG - WASH BAY/EQUIPMENT RM.	20	1	1684	13.9	12		6704	6	42.0	5040	60			8
9	FUTURE SUMP PUMP	20	1		0.0	12	200		12	1.7	200	20	1	LTG - BUILDING	10
11	REC - EQUIPMENT RM. & EXTERIOR	20	1	360	3.0	12		360	12	0.0		20	1	SPARE	12
13	TIME CLOCK	20	1	360	3.0	12	360		12	0.0		20	1	SPARE	14
15	SPARE	20	1		0.0	12		0	12	0.0		20	1	SPARE	16
17	SPARE	20	1		0.0	12	0		12	0.0		20	1	SPARE	18
19	SPARE	20	1		0.0	12		0	12	0.0		20	1	SPARE	20
21	SPARE	20	1		0.0	12	0		12	0.0		20	1	SPARE	22
23	SPARE	20	1		0.0	12		0	12	0.0		20	1	SPARE	24
25	BLANK				0.0	#N/A	0		#N/A	0.0				BLANK	26
27	BLANK				0.0	#N/A		0	#N/A	0.0				BLANK	28
29	BLANK				0.0	#N/A	0		#N/A	0.0				BLANK	30
	CONNECTED LOAD - TOTAL KW			27	KW		12840	14104							
	CONNECTED LOAD - TOTAL AMPS			112	AMPS		107	118							
	DEMAND LOAD - TOTAL KW			28	KW										
	DEMAND LOAD - TOTAL AMPS			115	AMPS										

ELECTRICAL LOAD SUMMARY - EXISTING MAINTENENACE BUILDING SERVICE
ITD TRUCK WASH SHOSHONE

PANEL AND/OR EQUIPMENT	VOLTAGE	ELECTRICAL LOAD (KVA)								CONNECTED LOAD		DEMAND LOAD	
		LIGHTING	REC.	MOTORS	KITCHEN	HVAC	MISC.	ELEC. HEAT	WATER HEAT	KVA	AMPS	KVA	AMPS
W1	240/120	2	0	2	0	0	20	4	0	28	118	29	121
TOTAL (NEW):		2	0	2	0	0	20	4	0	28	118	29	121
EXISTING DEMAND KW:	14												
EXISTING DEMAND X 125%:										18	73	18	73
TOTAL (NEW + EXISTING):										46	118	46	193

MAIN SERVICE DISCONNECT/EQUIPMENT RATING: 400 AMPS

ELECTRICAL SCHEDULES

SCALE: NTS

REVISIONS

DESCRIPTION	DATE

OWNER

Idaho Department of Transportation
Shoshone - Truck Wash
U.S. Highway 26 (South Rail Street West)
Shoshone, Lincoln County, Idaho 83352

COPYRIGHT 2016

Glancey Rockwell & Associates
Architecture Planning
595 S Americana Boulevard Boise, Idaho 83702
(208) 345-0566 (208) 345-1718 Fax (208) 387-0889
office@grboise.com

PROFESSIONAL ENGINEER LICENSED 16238 4/1/16 STATE OF IDAHO KEITH W. ADAMS

SHEET DATA

DRAWN BY:	KWA
CHECKED BY:	JVS
SCALE:	AS NOTED
DATE:	04.12.16
PROJECT #:	15039

SHEET NUMBER

E3.1

e2co electricalengineeringcompany
engineering 4 tomorrow
world wide web: e2co.com
800 s. industry way, suite 350
meridian, idaho 83642
phone: 208.378.4450
fax: 208.378.4451
e2co project #: 16001

SCALES ARE ACCURATE FOR 24x36 PRINTED SHEETS

COM*check* Software Version 4.0.2.3

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2012 IECC
Project Title: ITD Truck Wash
Project Type: New Construction

Construction Site:
SHOSHONE, ID

Owner/Agent:

Designer/Contractor:
Keith Adams
e2co
800 S. Industry Way
Suite 350
Meridian, ID 83642
(208) 378-4450
kadams@e2co.com

Additional Efficiency Package

Reduced interior lighting power. Requirements are implicitly enforced within interior lighting allowance calculations.

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft2)	C Allowed Watts / ft2	D Allowed Watts (B X C)
1-Transportation	3614	0.77	2783
		Total Allowed Watts =	2783

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Transportation				
Linear Fluorescent 1: BF1: BARE STRIP: 48" T8 32W: Electronic:	2	2	64	128
Linear Fluorescent 2: HF1/HF1E: HIGH BAY: 48" T8 32W: Electronic:	4	12	128	1536
			Total Proposed Watts =	1664

Interior Lighting PASSES: Design 40% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2012 IECC requirements in COM*check* Version 4.0.2.3 and to comply with the mandatory requirements listed in the Inspection Checklist.

KEITH ADAMS, PE — Name - Title
Signature
4/10/2016 — Date

COM*check* Software Version 4.0.2.3

Exterior Lighting Compliance Certificate

Project Information

Energy Code: 2012 IECC
Project Title: ITD Truck Wash
Project Type: New Construction
Exterior Lighting Zone 3 (Other)

Construction Site:
SHOSHONE, ID

Owner/Agent:

Designer/Contractor:
Keith Adams
e2co
800 S. Industry Way
Suite 350
Meridian, ID 83642
(208) 378-4450
kadams@e2co.com

Allowed Exterior Lighting Power

A Area/Surface Category	B Quantity	C Allowed Watts / Unit	D Tradable Wattage	E Allowed Watts (B X C)
Illuminated length of facade wall or surface	16 ft	3.75	No	60
Main entry	3 ft of door	30	Yes	90
			Total Tradable Watts (a) =	90
			Total Allowed Watts =	150
			Total Allowed Supplemental Watts (b) =	750

(a) Wattage tradeoffs are only allowed between tradable areas/surfaces.
(b) A supplemental allowance equal to 750 watts may be applied toward compliance of both non-tradable and tradable areas/surfaces.

Proposed Exterior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
Illuminated length of facade wall or surface (16 ft): Non-tradable Wattage				
HID: WM1: WALL PACK: Metal Halide: Standard:	1	1	95	95
Main entry (3 ft of door width): Tradable Wattage				
HID: WM1: WALL PACK: Metal Halide: Standard:	1	1	95	95
			Total Tradable Proposed Watts =	95

Exterior Lighting PASSES: Design 88% better than code

Exterior Lighting Compliance Statement

Compliance Statement: The proposed exterior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed exterior lighting systems have been designed to meet the 2012 IECC requirements in COM*check* Version 4.0.2.3 and to comply with the mandatory requirements listed in the Inspection Checklist.

KEITH ADAMS, PE — Name - Title
Signature
4/10/2016 — Date

COM*check* Software Version 4.0.2.3

Inspection Checklist

Energy Code: 2012 IECC

Requirements: 0.0% were addressed directly in the COM*check* software

Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req.ID	Plan Review	Complies?	Comments/Assumptions
C103.2 [PR4][1]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C103.2 [PR8][3]	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the exterior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include exterior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.2.2.1 [EL22][2]	Automatic controls to shut off all building lighting installed in all buildings.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1.1 [EL23][2]	Independent lighting controls installed per approved lighting plans and all manual controls readily accessible and visible to occupants.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.1.2 [EL15][1]	Lighting controls installed to uniformly reduce the lighting load by at least 50%.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.2.3 [EL16][2]	Daylight zones provided with individual controls that control the lights independent of general area lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.3 [EL17][3]	Sleeping units have at least one master switch at the main entry door that controls wired luminaires and switched receptacles.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.2.2 [EL18][1]	Occupancy sensors installed in required spaces.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.2.3 [EL20][1]	Primary sidelighted areas are equipped with required lighting controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.2.3 [EL21][1]	Enclosed spaces with daylight area under skylights and rooftop monitors are equipped with required lighting controls.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.4 [EL25][2]	Automatic lighting controls for exterior lighting installed.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.3 [EL4][1]	Separate lighting control devices for specific uses installed per approved lighting plans.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.3 [EL19][3]	Fluorescent luminaires with odd numbered lamp configurations that are within 10 feet center to center (if recess mounted) or are within 1 foot edge to edge (if pendant or surface mounted) shall be tandem wired.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.4 [EL6][1]	Exit signs do not exceed 5 watts per face.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Rough-In Electrical Inspection	Complies?	Comments/Assumptions
C405.6 [EL24][1]	Exterior grounds lighting over 100 W provides >60 lm/W unless on motion sensor or fixture is exempt from scope of code or from external LPD.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.2.3 [EL8][1]	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

Section # & Req.ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.5.1 [FI16][3]	Furnished as-built drawings for electric power systems within 30 days of system acceptance.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C303.3, C408.2.5.2 [FI17][3]	Furnished O&M instructions for systems and equipment to the building owner or designated representative.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C405.5.2 [FI18][1]	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Interior Lighting fixture schedule for values.*
C405.6.2 [FI19][1]	Exterior lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	*See the Interior Lighting fixture schedule for values.*
C408.3 [FI33][1]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	
C408.3 [FI48][1]	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	☐Complies ☐Does Not ☐Not Observable ☐Not Applicable	

Additional Comments/Assumptions:

1 High Impact (Tier 1) | 2 Medium Impact (Tier 2) | 3 Low Impact (Tier 3)

PROFESSIONAL ENGINEER LICENSED 16238 4/11/16 STATE OF IDAHO KEITH W. ADAMS

ENERGY COMPLIANCE FORMS

SCALE: NTS

e2co electricalengineeringcompany
engineering 4 tomorrow
world wide web: e2co.com
800 s. industry way, suite 350
meridian, idaho 83642
phone: 208.378.4450
fax: 208.378.4451
e2co project #: 16001

SCALES ARE ACCURATE FOR 24x36 PRINTED SHEETS

REVISIONS

DESCRIPTION	DATE

OWNER

Idaho Department of Transportation
Shoshone - Truck Wash
U.S. Highway 26 (South Rail Street West)
Shoshone, Lincoln County, Idaho 83352

COPYRIGHT 2016

Glancey Rockwell & Associates
Architecture Planning
595 S Americana Boulevard Boise, Idaho 83702
(208) 345-0566 (208) 345-1718 Fax (208) 387-0889
office@grboise.com

SHEET DATA
DRAWN BY: KWA
CHECKED BY: JVS
SCALE: AS NOTED
DATE: 04.12.16
PROJECT #: 15039

SHEET NUMBER
E3.2