



**TOWN OF JAMESTOWN  
JAMESTOWN, COLORADO**

**INVITATION TO BID  
BID NO. James.045**

**Jamestown Volunteer Fire Station  
Back-up Generator Design and Installation  
CDBG-DR Project No. INF-00064**

**Issued by: Boulder County on behalf of The  
Town of Jamestown**

**SUBMIT TO BOULDER COUNTY  
PURCHASING**

**2025 14<sup>th</sup> STREET  
BOULDER CO 80302**

**[Purchasing@bouldercounty.org](mailto:Purchasing@bouldercounty.org)**

**SUBMITTAL DUE DATE  
August 13, 2019  
10:00 a.m. MDT**

# INVITATION TO BID

## SUMMARY

The Town of Jamestown's (Town) Volunteer Fire Station (JVFS) was critically damaged during the September 2013 flood and subsequently was demolished and completely reconstructed in 2014. The Town has additional CDBG-DR funds and is using those funds to design, permit, and install a backup generator system for the JVFS. To that end, the Town is seeking bids from qualified vendors, and intends to select a Contractor who will design, permit and install a backup generator for the JVFS.

The general scope of the project includes the following components:

- Design a backup generator system
- Confirm generator sizing
- Define site location and design necessary equipment pad for the generator
- Engineer the electrical connections and transfer system
- Engineer the connection to the fuel source (liquid propane)
- All permits and permit fees (e.g. Boulder County Building Permit)
- Construct the generator system, complete and operational
- Provide written operation and maintenance manual(s) and onsite operation training

Work shall be completed in accordance with the applicable federal, state and local requirements and codes.

**Scope of work and a sample contract with HUD CDBG-DR specific addenda are attached in Attachment D. The successful bidder shall execute the attached addenda as part of any contract with the Town, comply with all requirements set forth in those addenda, and provide proof of SAM registration. All work shall be tracked and accounted for by the Consultant according to HUD CDBG-DR requirements. Consultant will be responsible for tracking each work element at a sufficient level of detail to meet HUD CDBG-DR requirements for reimbursement.**

Through an intergovernmental agreement, Jamestown is working with Boulder County on this bid process to procure the services of a qualified contractor.

### **Optional Pre-bid Conference**

Interested Contractors shall familiarize themselves with the JVFS. An optional pre-bid conference and site walk will be held at the Jamestown Town Hall at **10:00 a.m. Mountain Daylight Time, on the date listed in the project schedule below.** Interested parties will meet at the Jamestown Town Hall at 118 Main St., Jamestown, CO 80455.

### **Written Inquiries**

All inquiries regarding this ITB shall be submitted via e-mail to the Boulder County Purchasing Office at [purchasing@bouldercounty.org](mailto:purchasing@bouldercounty.org) on, or before, **2:00 p.m., on the date listed in the project schedule below.** Clearly indicate **James.045** in the subject line. A response from Boulder County Purchasing on behalf of the Town of Jamestown to all inquiries will be sent out to pre-bid conference attendees before **4:00 p.m., on the date listed in the project schedule below.**

Questions received prior to the submission deadline, will receive a response by 4:00 p.m., on the

date listed in the project schedule below.

**Submittal Instructions:**

Bids are due at the Boulder County Administrative Services Front Desk or the email box listed below (preferred), for time and date recording and verification on or before **10:00 a.m., Mountain Daylight Time, on the date listed in the project schedule below.** A bid opening will be conducted at 11:00 a.m. Mountain Time at county offices

**Your response to this ITB can be submitted in the following ways. Please note that e-mail responses to this solicitation are preferred, but are limited to a maximum of 50 MB capacity. Electronic submittals must be received in the e-mail box listed below. Submittals sent to any other box will NOT be forwarded or accepted. This e-mail box is only accessed on the due date of your questions or proposals. Please use the Delivery Receipt option to verify receipt of your email.**

**E-mail**                    **purchasing@bouldercounty.org**; identified as **Bid #James.045** in the subject line.

-OR-

**US Mail**                    **One (1)** unbound copy of your bid, including the Bid Schedule (Attachment C) and all other required documents printed double-sided, 11 point, on at least 50% post-consumer, recycled paper must be submitted in a sealed envelope, clearly marked as **Bid #James.045**, and delivered to the Administrative Services Front Desk at 2025 14th Street, Boulder, CO 80302. Please allow at least 2 days for delivery of USPS Priority and Express Mail.

All Bids must be received and time and date **recorded and verified** at the Administrative Services Front Desk by the above due date and time. Sole responsibility rests with the Offeror to see that their Bid is received on time at the stated location(s). Any Bids received after due date and time will be returned to the bidder. No exceptions will be made.

The Jamestown Town Board reserve the right to reject any and all Bids, to waive any informalities or irregularities therein, and to accept the Bid in whole, or portions of the Bid that, in the opinion of the Jamestown Board of Trustees, is in the best interest of the Town of Jamestown, State of Colorado.

**Americans with Disabilities Act (ADA):**

If you need special services provided for under the Americans with Disabilities Act, contact the ADA Coordinator or the Human Resources office at (303) 441-3525 at least 48 hours before the scheduled event.

**Prequalification:**

Notice is hereby given to all interested parties that all teams will be required to meet all minimum qualifications listed below to be considered for this project.

Respondents must be registered with the System for Award Management (SAM) and provide their Data Universal Number System (DUNS) Number as part of their submittal. DUNS numbers can be obtained through Dun and Bradstreet, Inc. (<https://fedgov.dnb.com/webform>). SAM registration can be obtained through [www.sam.gov](http://www.sam.gov). The successful proposer shall submit proof of SAM

registration with the submitted bid documents.

To be considered as qualified, interested teams shall be registered with SAM and have, as a minimum:

1. Provided Contracting services within the last five (5) years for at least five (5) similar projects.
2. Demonstrated specific experience in projects of similar scope.

Supporting documentation for the minimum qualifications shall be included in the submittal package, along with contact information for the reference projects sited for item 1 above. Any Contractor requesting an exception to the above prequalification requirements must submit a formal letter at least 72 hours before the bid opening requesting approval from the Town.

Exception letters shall include five (5) similar projects along with references. The Town shall have 48 hours to respond in writing to the request

**Procurement:**

Procurement for this project shall follow the Town of Jamestown’s procurement policy. In addition, this project is federally funded and, as such, has additional procurement and reporting processes.

Cost Plus Percentage of Cost Contracts are not allowed under CDBG-DR procurement rules.

**Project Schedule**

<b>Date</b>	<b>Description</b>
July 11, 2019	Advertisement
July 18, 2019	Optional Pre-Bid Meeting
July 26, 2019	Final Written Inquiries Due
August 2, 2019	Responses Posted to Written Inquiries
August 13, 2019	Bids Due at Boulder County Purchasing
September 2, 2019	Jamestown Board Meeting for Award
September 3, 2019	Notice of Award

**Project Plans, Specifications and Other References:**

Reference materials for this Bid included are the Scope of Work and is attached as Attachment A.

Sample contract with CDBG-DR addendum is attached as Attachments C and D.

## TERMS AND CONDITIONS

1. **Bidders are expected to examine the drawing, specifications, schedule of delivery, and all instructions. Failure to do so will be at the bidder's risk.**
2. **Each bidder shall furnish the information required in the Invitation to Bid.**
3. **The Contract/Purchase Order will be awarded to that responsible bidder whose submittal, conforming to the Invitation to Bid, will be most advantageous to the Town of Jamestown, price and other factors considered.**
4. **The Town of Jamestown reserves the right to reject any or all bids and to waive informalities and minor irregularities in bids received, and to accept any portion of or all items proposed if deemed in the best interest of the Town of Jamestown to do so.**
5. **No submittal shall be withdrawn for a period of ninety (90) calendar days subsequent to the opening of bids without the consent of the Town of Jamestown's Agent or delegated representative.**
6. **A signed purchase order or contract furnished to the successful bidder results in a binding contract without further action by either party.**
7. **Late or unsigned bids will not be accepted or considered. It is the responsibility of bidders to ensure that the bid arrives at the Administrative Services Front Desk or appropriate email box prior to the time indicated in the "Invitation to Bid."**
8. **The proposed price shall be exclusive of any Federal or State taxes from which the Town of Jamestown is exempt by law.**
9. **Any interpretation, correction or change of the bid documents will be made by Addendum. Interpretations, corrections and changes of the bid documents made in any other manner will not be binding, and bidder shall not rely upon such interpretations, corrections and changes. The County's Representative, acting on behalf of the Town of Jamestown, will not be responsible for oral clarification.**
10. **Confidential/Proprietary Information: Bids submitted in response to this "Invitation to Bid" and any resulting contract are subject to the provisions of the Colorado Public (Open) Records Act, 24-72-201 et.seq., C.R.S., as amended. Any restrictions on the use or inspection of material contained within the bid and any resulting contract shall be clearly stated in the bid itself. Confidential/proprietary information must be readily identified, marked and separated/packaged from the rest of the bid. Co-mingling of confidential/proprietary and other information is NOT acceptable. Neither a bid, in its entirety, nor bid price information will be considered confidential/proprietary. Any information that will be included in any resulting contract cannot be considered confidential.**
11. **Boulder County and the Town of Jamestown promote the purchase/leasing of energy efficient, materials efficient and reduced toxic level products where availability, quality and budget constraints allow. Bidders are expected whenever possible to provide products that earn the ENERGY STAR and meet the ENERGY STAR specifications for energy efficiency with power management features enabled. Bidders are encouraged to offer products and equipment with post-consumer recycled-content materials. Products should be packaged and delivered with a minimum amount of recycled packaging that adequately protects the product, but is not excessive.**

## SUBMITTAL SECTION

**Jamestown Volunteer Fire Station  
Back-up Generator Design and Installation  
CDBG-DR Project No. INF-00064  
BID #James.045**

1.1 BID INFORMATION

- a. Bidder:\_\_\_\_\_.
- b. Project Name: JVFS Back-up Generator Design and Installation.
- c. Project Location: Jamestown, Colorado.
- d. Owner: Town of Jamestown.
- e. Owner Project Number: James.045

1.2 CERTIFICATIONS AND BASE BID

- a. Base Bid, Single-Prime (All Trades) Contract: The undersigned Bidder, having carefully examined the Procurement and Contracting Requirements, Conditions of the Contract, Drawings, Specifications, and all subsequent Addenda, having visited the site, and being familiar with all conditions and requirements of the Work, hereby agrees to furnish all material, labor, equipment and services, including all scheduled allowances, necessary to complete the construction of the above-named project, according to the requirements of the Procurement and Contracting Documents, for the arithmetic sum for Unit Price Bid Schedule (attached to this submittal):
  - i. \_\_\_\_\_ Dollars (\$\_\_\_\_\_).

1.3 BID GUARANTEE

- a. The undersigned Bidder agrees to execute a contract for this Work in the above amount and to furnish surety as specified, if offered within 90 days after receipt of bids, and on failure to do so agrees to forfeit to Owner the attached cash, cashier's check, certified check, U.S. money order, or bid bond, as liquidated damages for such failure, in the following amount constituting five percent (5%) of the Base Bid amount above:
  - i. \_\_\_\_\_ Dollars (\$\_\_\_\_\_).
- b. In the event Owner does not offer Notice of Award within the time limits stated above, Owner will return to the undersigned the cash, cashier's check, certified check, U.S. money order, or bid bond.

1.4 ACKNOWLEDGEMENT OF ADDENDA

- a. The undersigned Bidder acknowledges receipt of and use of the following Addenda in the preparation of this Bid:
  - i. Addendum No. 1, dated \_\_\_\_\_.
  - ii. Addendum No. 2, dated \_\_\_\_\_.
  - iii. Addendum No. 3, dated \_\_\_\_\_.
  - iv. Addendum No. 4, dated \_\_\_\_\_.

1.5 SUBMISSION OF BID

- a. Respectfully submitted this \_\_ day of \_\_\_\_\_, 2019.
- b. Submitted By: \_\_\_\_\_(Name of bidding firm or corporation).
- c. Authorized Signature: \_\_\_\_\_(Handwritten signature).
- d. Signed By: \_\_\_\_\_(Type or print name).
- e. Title: \_\_\_\_\_(Owner/Partner/President/Vice President).
- f. Witness By: \_\_\_\_\_(Handwritten signature).
- g. Attest: \_\_\_\_\_(Handwritten signature).
- h. By: \_\_\_\_\_(Type or print name).
- i. Title: \_\_\_\_\_(Corporate Secretary or Assistant Secretary).
- j. Street Address: \_\_\_\_\_.
- k. City, State, Zip: \_\_\_\_\_.
- l. Phone: \_\_\_\_\_.
- m. License No.: \_\_\_\_\_.
- n. Federal ID No.: \_\_\_\_\_(Affix Corporate Seal Here).
- o. DUNS Number.: \_\_\_\_\_.

1.6 Project references:

- a. Supporting documentation for a minimum of five (5) similar projects within the last five (5)
- b. Contact information for the reference projects sited in item 1.6 a.

**SIGNATURE PAGE**

**Jamestown Volunteer Fire Station**

**Back-up Generator Design and Installation  
CDBG-DR Project No. INF-00064  
BID #James.045**

**Failure to complete, sign and return this signature page with your bid may be cause for rejection.**

<b>Contact Information</b>	<b>Response</b>
Company Name	
Name and Title of Primary Contact Person	
Company Address	
Phone Number	
Email Address	
Company Website	

**By signing below I certify that:**

I am authorized to bid on my company's behalf.

I am not currently an employee of Boulder County or the Town of Jamestown.

None of my employees or agents is currently an employee of Boulder County or the Town of Jamestown.

I am not related to any Boulder County or Town of Jamestown employee or Elected Official.

I am not a Public Employees' Retirement Association (PERA) retiree.

\_\_\_\_\_  
**Signature of Person Authorized to Bid  
on  
Company's Behalf**

\_\_\_\_\_  
**Date**

Note: If you cannot certify the above statements, please explain in the space provided



## CONTRACTOR QUALIFICATION

**Jamestown Volunteer Fire Station  
 Back-up Generator Design and Installation  
 CDBG-DR Project No. INF-00064  
 BID #James.045**

		YES	NO
1	Has the Contractor completed similar types of projects in existing neighborhoods within the last 5 year?		
2	Can the Contractor provide references for each of the projects in response to no. 1 above?		
3	Can the Contractor provide the required Insurance and Bonding Requirements listed in the General Conditions of the Contract?		
4	Can the Contractor commit the necessary manpower and equipment to provide the services within the required time frames?		

Contractor Shall Provide References Here:

R1	
R2	
R3	
R4	
R5	

## EXHIBIT A – SCOPE OF WORK

### Summary & Project Description

The Town of Jamestown (Town) is a mountain community located approximately 15 miles from Boulder up Left Hand and James Canyon roads. Jamestown's Volunteer Fire Station (JVFS) was critically damaged during the September 2013 flood and subsequently was demolished and completely reconstructed in 2014. To that end, the Town is seeking bids from qualified firms and intends to award a contract to the lowest responsive and responsible bidder providing all necessary labor, materials, equipment, and services required for the installation of a backup generator with an anticipated size of 45 kW (contractor to confirm) for the JVFS. The firm must demonstrate experience in generator installation by completing the Contractor Qualifications form included above in the ITB, provide a schedule to complete the work, and a bid of all costs. Work shall be completed in accordance with the applicable federal, state and local requirements and codes.

The JVFS Backup Generator project is a HUD Community Development Block Grant – Disaster Recovery (CDBG-DR) project, subject to all CDBG-DR requirements detailed in **Attachment D**, specifically:

- Current registration with System of Award Management ([www.sam.gov](http://www.sam.gov))
- Certificate of Good Standing with the State of Colorado Secretary of State ([www.sos.state.co.us](http://www.sos.state.co.us))
- Davis Bacon Act Requirements

Award of this project will be based on the lowest responsive bid.

### General Scope of Work

Work shall be overseen by the Town's Project Manager, Tara Schoedinger, Flood Recovery Manager, and conducted in close coordination with the Town's Assistant Project Manager Philip Strom, Boulder County Collaborative (BCC), the JVFD Operational Fire Chief, Arne Metzger and the Administrative Chief, David Mans.

- General Project Components
  - Coordinate, plan, and direct all activities for the Project including design, installation, scheduling, and personnel supervision
  - Attend project kickoff meeting.
  - Attend four (4) project coordination meetings throughout the duration of the Project in the Jamestown Town Hall with Town and BCC representatives. Coordination meetings shall be attended in person unless prior arrangements have been agreed upon.
  - Coordination with JVFD personnel as required, specifically developing stop work procedures during Fire Station use or emergencies.
  - Coordination with electrical utility and scheduling any power shut-offs required
  - Project closeout including all necessary CDBG-DR requirements and documentation
  - Work shall be completed in accordance with the applicable federal, state and local regulatory requirement and codes.
- Management
  - Project management including four (4) coordination meetings, weekly project and schedule updates, and monthly invoicing.

- Sufficient construction management (CM) and oversight to attest that the completed project is constructed in conformance with the design and all relevant codes and standards.
- Coordination with the Town's Project Management staff
- Storm water and erosion control
  - Use best management practices (BMPs) to limit construction-related disturbance, such as soil compaction, erosion, and sedimentation, and to prevent the spread of invasive weeds.
- Project closeout
  - Provide closeout support following substantial completion.
  - Prepare project records (e.g. design drawings, permits, O&M manuals, etc), and transfer (electronically) to the Town.
  - Provide other support as may be required.

## Detailed Scope of Work

The specific scope of the project includes the following components:

### 1. General Conditions

Costs associated with mobilization and jobsite management of the project, including items such as project management staff, administrative staff, temporary utilities, safety and cleaning, any indirect cost not specifically associated with the individual bid items.

### 2. Design Services

The design of the backup generator system shall be performed by Colorado licensed Professional Engineer(s) in accordance with applicable federal, state and local regulatory requirement and codes. Generator sizing shall be based on the JVFS electrical needs as provided in the JVFS electrical design plans (see Appendix A). The generator shall be able to automatically power the electrical requirements of the JVFS using liquid propane (LP) as the fuel source.

Minimum Design and Construction Requirements Jamestown Building Standards: The Town has ordinances on their website that are applicable to this project (e.g. Ordinance 2, Series 2014), and generally follows the 2009 IBC, IFC, IMC, IPC & IECC, IGCC, CCPC; 2009 Boulder County Building Code Amendments. Building permits and inspections are administered by Boulder County through an intergovernmental agreement. **Potential bidders are advised to familiarize themselves with applicable ordinances and regulations prior to submitting on this project.**

- Develop base information sufficient for design. Building and site information is available including the JVFS Design/Build Project contract documents and aerial photos (refer to Appendices A & B)
- Design and engineering of all civil, structural, electrical, mechanical, utilities infrastructure and appurtenances necessary to deliver a complete turnkey backup generator system, including, but not limited to:
  - Confirm generator sizing based on loads provided in the design plans for the reconstructed JVFS (Appendix A) and currently estimated at 45 kW
  - Confirm automatic transfer switch sizing, currently estimated at 200 amps
  - Define site location for the generator and design necessary site modifications to accommodate the generator and any required appurtenances, including concrete equipment pad, based on the design plans for the reconstructed JVFS (Appendix A)
  - Design the electrical connections, disconnect, and power transfer system including electrical wiring, panels, boxes, switches and other necessary material for connecting the generator to the existing electrical system



**Sheet Index:**

Sheet number	Sheet Title
<b>Project Information</b>	
A0.1	Title sheet/ general info
<b>Code Review Plan</b>	
A1.1	Code Review Plan
<b>Site Plans</b>	
A2.1	Site Plan
<b>Building Plans</b>	
A3.1	1st Level Floor Plan & Mechanical Mezzanine
A3.1.1	1st Level Reflected ceiling plan
A3.2	2nd Level Floor plan
A3.2.1	2nd Level Reflected ceiling plan
A3.3	Roof Plan
<b>Building Elevations</b>	
A5.1	Building Elevations
A5.2	Building Elevations
<b>Sections</b>	
A6.1	Sections
<b>Schedules</b>	
A7.1	Door & Window Schedules
<b>Details</b>	
A8.1	Details
A8.2	Details
A8.3	Details
<b>Civil Drawings</b>	
C0.1	Legend Notes & Abbreviations
C0.2	Demo Plan
CE1.0	Erosion Control Plan
C1.0	Grading and Drainage Plan
C2.0	Utility Plan
C3.0	Horizontal Control Plan
<b>Structural Drawings</b>	
S1.0	Structural General Notes
S2.1	Foundation Plan, Schedules
S2.2	2nd Floor Framing Plan
S2.3	Roof Framing Plan
S3.1	Typical Details, Foundation Section
S3.2	Details & Sections
S3.3	Sections
<b>MEP Drawings</b>	
P1.1	1st / 2nd Floor Plumbing Plan
P3.1	Plumbing Schedules
P4.1	Plumbing Specifications
M1.1	1st / 2nd Floor HVAC Plan
M3.1	Mechanical Schedules
M4.1	Mechanical Specifications
E4.1	1st + 2nd Floor Power Plan
E1.2	1st / 2nd Floor Lighting Plan
E3.1	Electrical Schedules
E3.2	Electrical Schedules
E4.1	Electrical Specifications

**Project Team:**

<b>Owner</b>	The Town of Jamestown 118 Main Street Jamestown, CO 80455 Contact: Ken Lenarcic 303-938-1486
<b>General Contractor</b>	Faurot Construction 4439 Broadway Boulder, CO 80304 Contact: Jason Goode 303-642-7212
<b>Architect</b>	WORKSHOP8 1720 15th Street Boulder, CO 80302 Contact: Joseph Vigil 303-442-3700
<b>Civil Engineer</b>	JVA, Inc. 1319 Spruce Street Boulder, CO 80302 Contact: Charlie Hagar 303-444-1951
<b>Structural Engineer</b>	JVA, Inc. 1319 Spruce Street Boulder, CO 80302 Contact: Tom Skinner 303-444-1951
<b>M.E.P. Engineer</b>	Boulder Engineering 1717 15th Street Boulder, CO 80302 Contact: Ethan Miley 303-444-6038












**Project Narrative and Scope of Work:**

1.) We propose to build a new 4 bay, two (2) story building at 66 Main Street, Jamestown, CO. The building will include approximately 4,024 square feet of storage space and 307 square feet of office space.

**General Project Notes:**

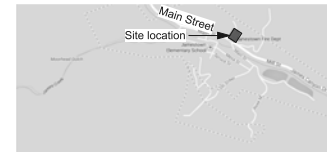
- 1.) All sub-contractors shall be responsible at all times during the construction phase of this project to build in accordance with all applicable building codes and regulations, and shall be responsible for verifying all dimensions and elevations prior to starting work. All work shall be performed in a workmanship like manner and be of the quality accepted by standard industry practice.
- 2.) All products shall be placed or installed as per manufacturer's instructions or recommendations.
- 3.) The Contractors shall protect all existing site conditions to remain and repair or replace any and all that are damaged during construction.
- 4.) Field verify all dimensions related to existing conditions before ordering materials or beginning construction. Notify WORKSHOP8 of any discrepancies in a timely manner.
- 5.) During construction, the contractor may encounter existing conditions which are not now known or are at variance with project documentation. Such conditions may interfere with new construction or require protection and/or support of existing work during construction, or may consist of damage or deterioration to materials or components which could jeopardize the integrity of the building. Notify the Owner and WORKSHOP8 in a timely manner and prior to proceeding with work related to this issue.
- 6.) All demolition work to be performed shall be done according to the Hazardous Materials report.
- 7.) Any/all references to proprietary systems may be addressed as "or approved equal".
- 8.) General Contractor to coordinate all construction job site recycling and documentation in adherence to required County code.
- 9.) All air barriers to be caulked.

**Wall Legend:**

	14" Concrete composite wall, 6" concrete, R-19 4" rigid insulation, 4" concrete.
	8" Concrete wall.
	2x6 wood studs with 1/2" sheathing, 3/4" siding on exterior, 5/8" gyp. board on interior, R-19 batt insulation.
	2x6 wood studs with 1/2" sheathing, 3/4" siding on exterior, 5/8" gyp. board on interior, R-19 batt insulation. Over-framed wall.
	2x6 wood studs with 5/8" gyp. board each side, R-19 batt insulation.
	2x4 wood studs with 5/8" gyp. board on interior side, R-19 batt insulation.
	2x4 wood studs with 1/2" sheathing each side, R-19 batt insulation.
	2x4 wood studs with 1/2" sheathing on interior side, R-19 batt insulation.
	2x4 wood studs with 5/8" gyp. board on each side.
	2x6 wood studs with 5/8" gyp. board each side.
	42" low wall with paint grade wood top cap.

**Project Notes:**

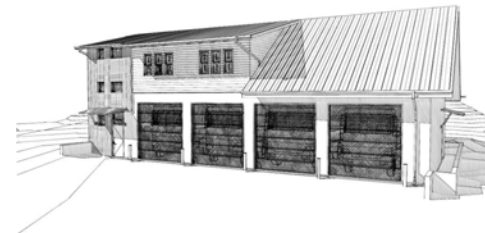
<b>Name of Project</b>	Jamestown Volunteer Fire Station 2014-009 City and County log # BP-14-1197
<b>Project Location</b>	66 Main Street Jamestown, CO 80455
<b>Zoning Requirements</b>	<b>N/A</b>
<b>Code Analysis</b>	2009 IBC, IFC, IMC, IPC & IECC, IGCC, CCPC; 2009 Boulder County Building Code Amendments
<b>Use and Occupancy</b>	Primary: S-2 (Garage bays), S-1 (Storage) Secondary: B (Entry/Office) Type V-B Construction
<b>Proposed construction type</b>	Fully Sprinklered with NFPA 13 system
<b>Fire suppression</b>	S-2 V-B = 2 stories + 1 for NFPA 13 (40'-0") maximum
<b>Allowable heights</b>	29'-9 1/2" from (6,920.10') lowest point IBC 504.2
<b>Proposed height</b>	The tabular area for S-2 Occupancy Group for Type V-B is 13,500 s.f., 2 stories, (3 stories + 13,500 s.f. per floor with sprinkler protection increase) The tabular area for S-1 Occupancy Group is 9,000 s.f., 1 story (2 stories + 9,000 s.f. per floor with sprinkler protection increase). The tabular area for B Occupancy Group for Type V-B is 9,000 s.f., 2 stories, (3 stories + 9,000 s.f. per floor with sprinkler protection increase). First floor of the building includes a garage and entry/office space.
<b>Allowable area</b>	Ground level (1st Story) S-2 = 2,065 s.f. Ground level (1st Story) B = 307 s.f. Second level (2nd story) S-1 = 1,758 s.f. Occupancy S-2 requires a 1 hour separation within a sprinklered building adjacent to S-1 occupancy. IBC Section 508.4 and Table 715.4.
<b>Required Separation (IBC table 508.4)</b>	Separation between the garage and the adjoining occupancy is 1-HR FRR fire barriers with 45 minute protected openings.
<b>Occupancy Separation</b>	
<b>Means of Egress</b>	IBC Table 1004.1.1
<b>Occupant load factors</b>	Parking Garage 1:200 SF gross (Garage Bay: 2,065/200=10.3=11) Business area 1:100 SF gross (Entry/Office: 307/100=3.07=4) Accessory Storage 1:300 SF gross (Storage: 1,758/300=5.86=6) IBC 508.2 Occupancy B does not occupy more than 10% of the building area of the story in which it is located.
<b>Accessory Occupancies</b>	IBC 1015.1 1st Floor required: 1 1st Floor provided: 2 2nd Floor required: 1 2nd Floor provided: 1 Occupant load for S Occupancy may not exceed 29. Occupant load for B Occupancy may not exceed 49.
<b>Number of exits</b>	Stairway exit capacity 0.37/person; 44" wide stairways can accommodate 146 people.
<b>Exit widths</b>	Not less than 44 inches, refer to drawings. IBC Section 1009.5 Stairway landings shall not be less than the stairway widths.
<b>Stairway width</b>	Not less than 44 inches, refer to drawings. IBC Section 1027.1
<b>Stairway landings</b>	Three exits discharge directly to outside, two directly at grade and one providing direct access to grade.
<b>Corridor width</b>	IBC Table 1016.1
<b>Exit discharge</b>	Travel distance to an exit is limited to 400 ft for S-2 occupancy with fire sprinkler system. Travel distance to an exit is limited to 250 ft for S-1 occupancy with fire sprinkler system. Travel distance to an exit is limited to 300 ft. for B occupancy with fire sprinkler system. IBC 1014.3 Common path of travel shall not exceed 75 ft for S-2 occupancy, 75 ft for S-1 occupancy and 100 ft for B occupancy with an automatic sprinkler system. IBC 1015.2.1 Exit access distance is limited to no more than 1/3 length of maximum overall diagonal dimension of area served.
<b>Travel Distance</b>	IBC Table 602: North: 94 ft to PL > 30 ft = 0 HR. South: 10ft ≤ 17 ft to Main Street PL < 30 ft = 0 HR. East: 10ft ≤ 10 ft to PL ≤ 30 ft = 0 HR. West: 32 ft to PL > 30 ft = 0 HR.
<b>Common path</b>	IBC 1014.3 Common path of travel shall not exceed 75 ft for S-2 occupancy, 75 ft for S-1 occupancy and 100 ft for B occupancy with an automatic sprinkler system. IBC 1015.2.1 Exit access distance is limited to no more than 1/3 length of maximum overall diagonal dimension of area served.
<b>Exit Access</b>	IBC Table 602: North: 94 ft to PL > 30 ft = 0 HR. South: 10ft ≤ 17 ft to Main Street PL < 30 ft = 0 HR. East: 10ft ≤ 10 ft to PL ≤ 30 ft = 0 HR. West: 32 ft to PL > 30 ft = 0 HR.
<b>Fire Separation Distances</b>	IBC 712.4 Supporting construction of horizontal assembly to be 1 hr. fire resistance rating with 45-minute fire doors. IBC 715.4
<b>Fire Resistance Rating of Building Elements, IBC Table 601</b>	Building construction type is V-B; all fire-resistant rating requirements for building elements is 0 hours.



1 Vicinity Map  
NOT TO SCALE



2 Context Map  
NOT TO SCALE

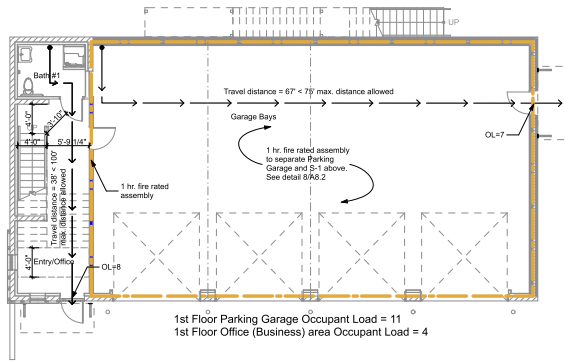


3 Perspective Looking North

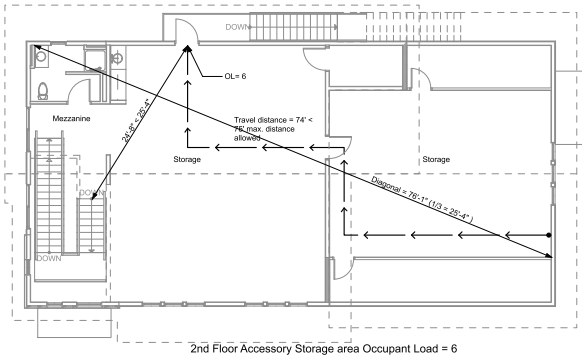


15 October 2014	Construction Set
14 August 2014	Building Permit
3 July 2014	Demo Permit
No. Date	Item

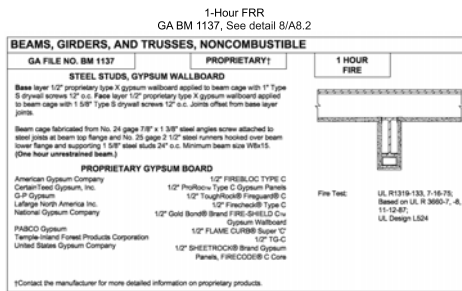
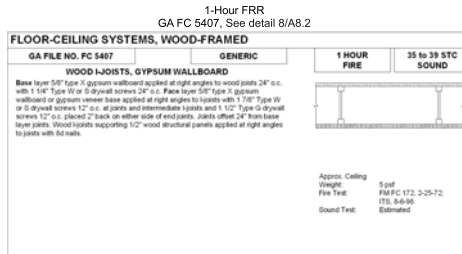
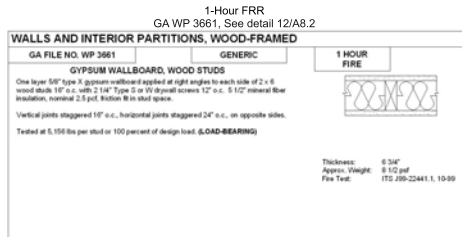
**Fire Resistance Rated General notes:**  
 1. All proprietary materials listed herein are to be utilized within the building construction.



1 1st Floor Code Review  
 SCALE: 1/8" = 1'-0"



2 2nd Floor Code Review  
 SCALE: 1/8" = 1'-0"



COMcheck Software Version 3.9.2  
**Envelope Compliance Certificate**

2012 IECC

Section 1: Project Information

Project Type: New Construction  
 Project Title: Jamestown VFS

Construction Site:  
 66 Main Street  
 Jamestown, CO 80455

Owner/Agent:  
 Ken Lewand  
 The Town of Jamestown  
 66 Main Street  
 Jamestown, CO 80455  
 303.608.1466  
 kylemest@townofjamestown.com

Designer/Contractor:  
 Joseph Vigil  
 Workshop8  
 1720 15th Street  
 Boulder, CO 80302  
 304-437309  
 joseph@workshop8.us

Section 2: General Information

Building Location for weather data: Jamestown, Colorado  
 Climate Zone: Bb  
 Building Type for Envelope Requirements: Nonresidential  
 Vertical Glazing / Wall Area Pct.: 15%

Building Type: Fire Station/Engine room  
 Common Space Types/Office - enclosed: 307  
 Common Space Types/Storage: 1999

Building Area: 2005  
 Floor Area: 307  
 1999

Section 3: Requirements Checklist

Envelope PASSES: Design 3% better than code.

Climate-Specific Requirements:

Component Name/Description	Area or Perimeter	U-Factor	Proposed U-Factor	Budget U-Factor
Insulated from Attic Floor with Wood Joists	2592	38.0	0.0	0.027
South wall: Other Exterior Wall, Heat capacity 11.5 (B)	1435	—	—	0.052
West (B): Other Window, Clear, Fixed, SHGC 0.54	14	—	—	0.300
West (B): Other Window, Clear, Fixed, SHGC 0.54	15	—	—	0.300
West (B): Other Window, Clear, Operable, SHGC 0.54, PF 0.82	54	—	—	0.300
Door (A): Glass or Glass-Block/Insulated Frame, Entrance Door, SHGC 0.55	1	—	—	0.280
Door (1): Insulated Metal, Sliding	21	—	—	0.607
East wall: Other Exterior Wall, Heat capacity 11.5 (B)	967	—	—	0.052
West (B): Other Window, Clear, Operable, SHGC 0.54	36	—	—	0.300
Door (1): Insulated Metal, Sliding	21	—	—	0.607
North wall: Other Exterior Wall, Heat capacity 11.5 (B)	1568	—	—	0.052
West (1): Other Window, Clear, Fixed, SHGC 0.54	9	—	—	0.300
Door (1): Insulated Metal, Sliding	21	—	—	0.607
West wall: Other Exterior Wall, Heat capacity 11.5 (B)	967	—	—	0.052
West (B): Other Window, Fixed, Operable, SHGC 0.54	27	—	—	0.300
West (B): Other Window, Clear, Fixed, SHGC 0.54	14	—	—	0.300
Concrete slab on grade: Slab-On-Grade/Unheated, Horizontal without vertical R.1.	2092	—	—	—

(B) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.

(\*) Other components require supporting documentation for proposed U-factors.

Air Leakage, Component Certification, and Vapor Retarder Requirements:

1. Continuous air barrier is provided throughout the building thermal envelope.
2. Air barrier joints and seams are sealed. The joints and seals are securely installed in or on the joint for its entire length.
3. Penetrations of the air barrier and joints of air leakage are caulked, gasketed or otherwise sealed in manner compatible with the construction materials and location. Joints and seals are sealed in the same manner as top or covered with a moisture vapor permeable wrapping material. The joints and seals are securely installed in or on the joint for its entire length.
4. The air barrier is continuous for all assemblies that are the thermal envelope and across the joints and assemblies.
5. Pressurized testing fixtures installed in the building envelope are Type IC rated as meeting ASTM E283, tested to >= 0.2 dm, and are sealed with gaskets or caulk.
6. Materials making up the air barrier have air permeability <= 0.04 dm/ft2 or are qualifying materials as per Section C402.4.1.2.1.
7. Air leakage of fenestration: Windows (glazing and weights) double-glazing with no leakage openings <= 0.30 dm/ft2. Skylights with leakage <= 0.30 dm/ft2. Curtain walls/curtain glazing <= 0.06 dm/ft2. Doors: glazed swinging entrance/exiting <= 1.0 dm/ft2. Doors: garage <= 0.40 dm/ft2.
  - Exemptions:
    - Field fabricated assemblies.
    - Doors and access openings from conditioned space to shafts, chutes stairways and elevator lobbies are gasketed, weatherstripped or sealed.
    - Doors:
      - Door openings required to comply with International Building Code as per Section C402.4.4.
      - Stairway and shaft vents are provided with Class I motorized dampers with a leakage rate <= 4 dm/ft2. Dampers are installed with controls so that they are capable of automatically opening upon activation of any fire alarm or the instruction of power to the damper.
      - Outdoor air supply and exhaust openings are provided with Class IA motorized dampers having a leakage rate <= 4 dm/ft2.
        - Exemptions:
          - Gravelly (nonmotorized) dampers having a leakage rate <= 20 dm/ft2 are permitted for exhaust and relief dampers for buildings less than three stories in height above grade, or where the design outdoor air intake or exhaust capacity <= 300 cfm.
          - Dampers smaller than 24 inches in either dimension are permitted to have a leakage <= 4 dm/ft2.
      - 10 Cargo doors and loading dock doors are weather sealed.
      - 12 Building entrance doors have a weather equipped with self-closing devices.
        - Exemptions:
          - Building entrances with revolving doors.
          - Doors not intended to be used as a building entrance by the public, or intended solely for employee use.
          - Doors that open directly from a space less than 3000 sq. ft. in area.
          - Doors used primarily to facilitate vehicular movement or materials handling and adjacent personnel doors.
          - Doors opening directly from a stoop/landing unit.
      - 13 Component R-values & U-factors labeled as certified.
      - 14 No roof insulation is installed on a suspended ceiling with removable ceiling panels.
      - 15 Other components have supporting documentation for proposed U-factors.
      - 16 Insulation installed according to manufacturer's instructions, in substantial contact with the surface being insulated, and in a manner that achieves the rated R-value without compressing the insulation. Except when instructed otherwise, edge joints between overlapping layers of continuous insulation are staggered.
      - 17 Rigid insulation extending away from building is covered by pavement or >= 10 inches of soil.
      - 18 Backed panels and associated components, designed for heat transfer from the panel surface to the occupants or indoor space are insulated with a minimum of R-3.5.

Minimum Skylight-Daylighting Requirements:

- 15 In enclosed spaces >= 10,000 ft2 enclosed under a roof with ceiling heights >= 15 ft, and used as an office, lobby, atrium, conference, storage, gymnasium/warehouse center, convention center, automotive service, manufacturing, non-refrigerated warehouse, retail store, distribution/office area, transportation, or other application, the following requirements apply unless exempted:
  - The daylight zone under skylights is >= half the floor area.
  - The skylight area to daylight zone is >= 3 percent with a skylight VT >= 0.45; or a minimum skylight effective aperture >= 1 percent.
- Exemptions:
  - Spaces where the proposed general lighting power densities <= 0.5 W/m2.
  - Areas with distributions that block direct beam sunlight on >= 1/2 of the roof over the enclosed area for more than 1,800 daytime hours per year between 8 am and 4 pm.
  - Spaces where the daylight zone under rooftop monitors is >= 50 percent of the enclosed space floor area.
- 20 Skylights in office, storage, automotive service, manufacturing, non-refrigerated warehouse, retail store, and distribution/office area have a measured glare value <= 90 percent unless designed to restrict direct sunlight.

Additional Efficiency Package Requirements:

1. The high efficiency HVAC option has been selected as the additional efficiency package required by this energy code. Systems that do not meet the performance requirement will be identified as the additional efficiency requirements checklist report.

Section 4: Compliance Statement

Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed envelope system has been designed to meet the 2012 IECC requirements in COMcheck Version 3.9.2 and to comply with the mandatory requirements in the Requirements Checklist.

Joseph Vigil, President

Name - Title Signature Date



Licensed Architect  
 State Registration No. 400321  
 Firm Registration No. WORKSHOP8, Inc.

**Jamestown Volunteer Fire Station**  
**FLOOD RECOVERY**  
 The Town of Jamestown  
 66 Main Street  
 Jamestown CO 80455

Revisions

No.	Date	Item
1	15 October 2014	Construction Set
2	14 August 2014	Building Permit
3	3 July 2014	Demo Permit

**A1.1**

Printed On: 10/15/14



Architect  
State Registration #400321  
Firm Registration #800321  
Joseph Vigil  
WORKSHOP8,LLC

**Jamestown Volunteer Fire Station**

**FLOOD RECOVERY**  
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66 Main Street  
Jamestown CO 80455

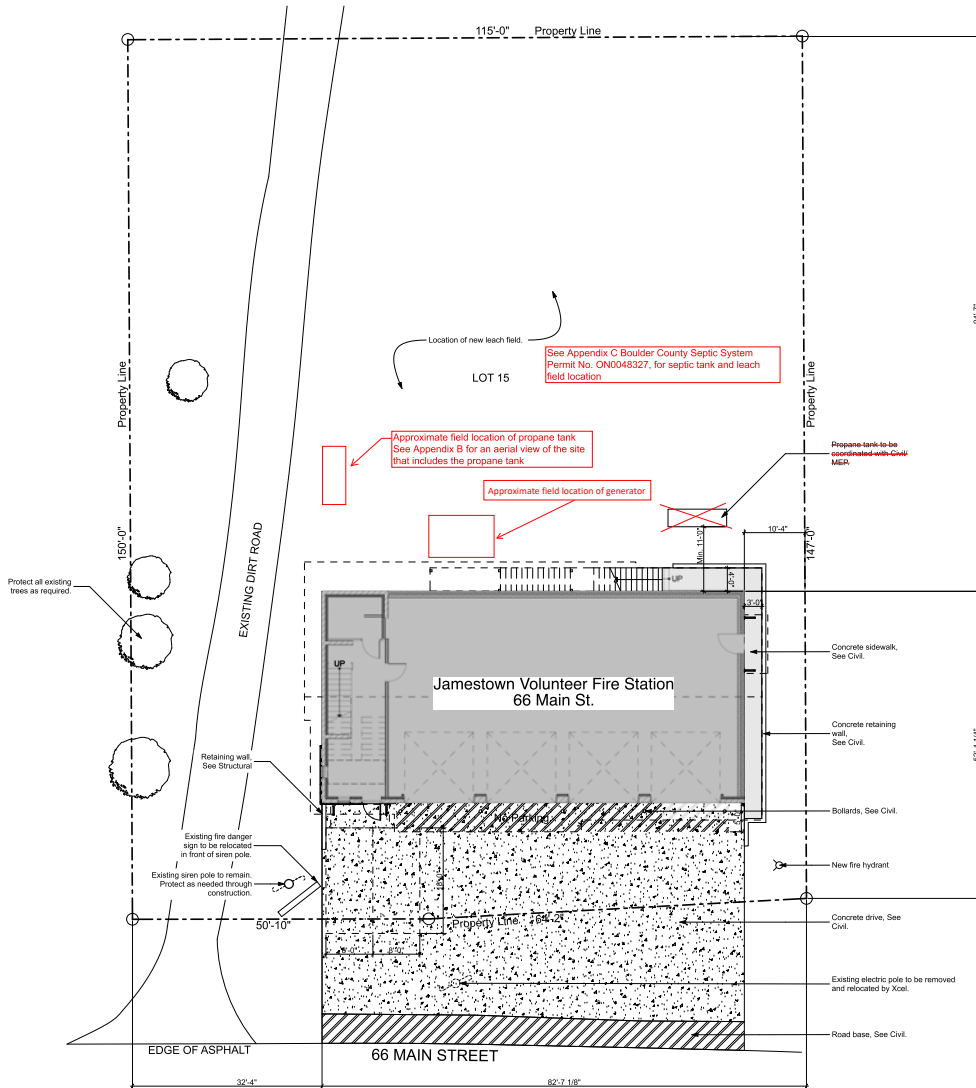
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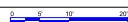
**A2.1**

Plotted On: 10/10/14

Site Plan



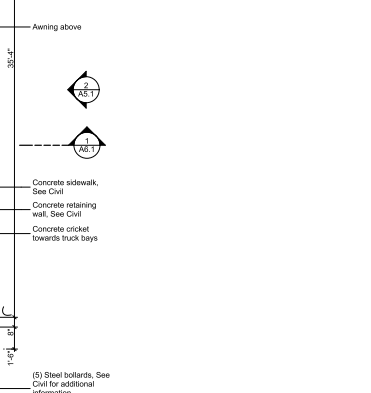
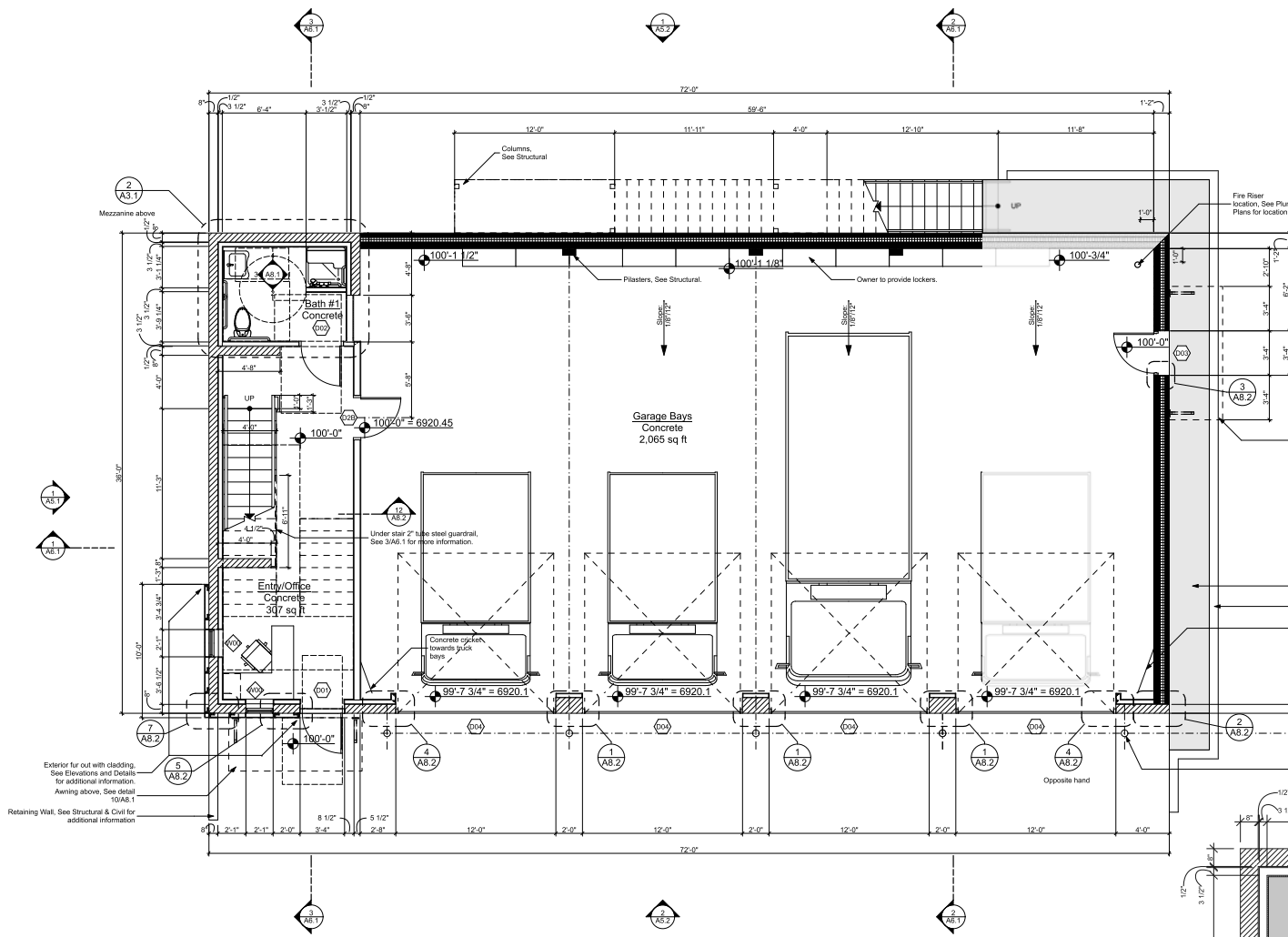
1 Site Plan  
SCALE: 1" = 10'





**Wall Legend:**

- 14" Concrete composite wall: 6" concrete, R-19 4" rigid insulation, 4" concrete.
- 8" Concrete wall.
- 2x6 wood studs with 1/2" sheathing, 3/4" siding on exterior, 5/8" gyp. board on interior, R-19 batt insulation.
- 2x6 wood studs with 5/8" sheathing, 3/4" siding on exterior, 5/8" gyp. board on interior, R-19 batt insulation. Over-framed wall.
- 2x6 wood studs with 5/8" gyp. board each side, R-19 batt insulation.
- 2x4 wood studs with 5/8" gyp. board on interior side, R-19 batt insulation.
- 2x4 wood studs with 1/2" sheathing each side, R-19 batt insulation.
- 2x4 wood studs with 1/2" sheathing on interior side, R-19 batt insulation.
- 2x4 wood studs with 5/8" gyp. board on each side.
- 2x6 wood studs with 5/8" gyp. board each side.
- 42" low wall with paint grade wood top cap.



**1 First Floor Plan**  
SCALE: 1/4" = 1'-0"

**2 Mechanical Mezzanine**  
SCALE: 1/2" = 1'-0"

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Jamestown CO 80455

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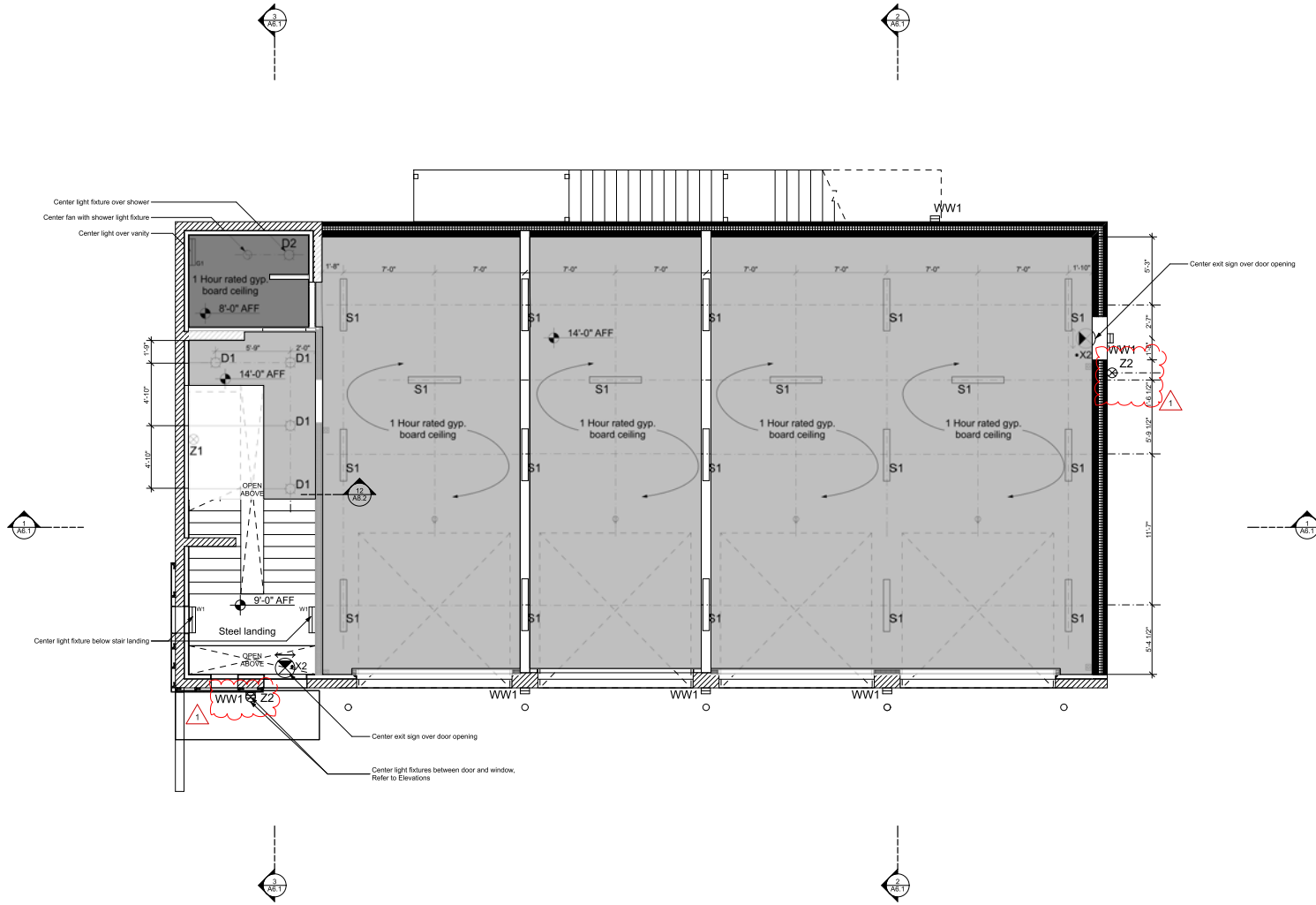
**A3.1**





**Power and lighting legend:**

- D1 6" round led downlight
- D2 11.75" round wet labeled shower light
- S1 10.5" square wet labeled shower light
- S1 2" fluorescent vanity light
- S1 4" linear fluorescent
- W1 2' fluorescent wall bracket
- C1 Double frog eye
- X1 Exit sign
- X2 Exit sign with double frog eye
- WW1 Wet location listed outdoor light
- Z2 Outdoor led emergency fixture
- E Ceiling exhaust fan
- P Push button switch
- M Motor outlet



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**A3.1.1**

Printed On: 10/15/14  
1st Floor Plan reflected ceiling plan

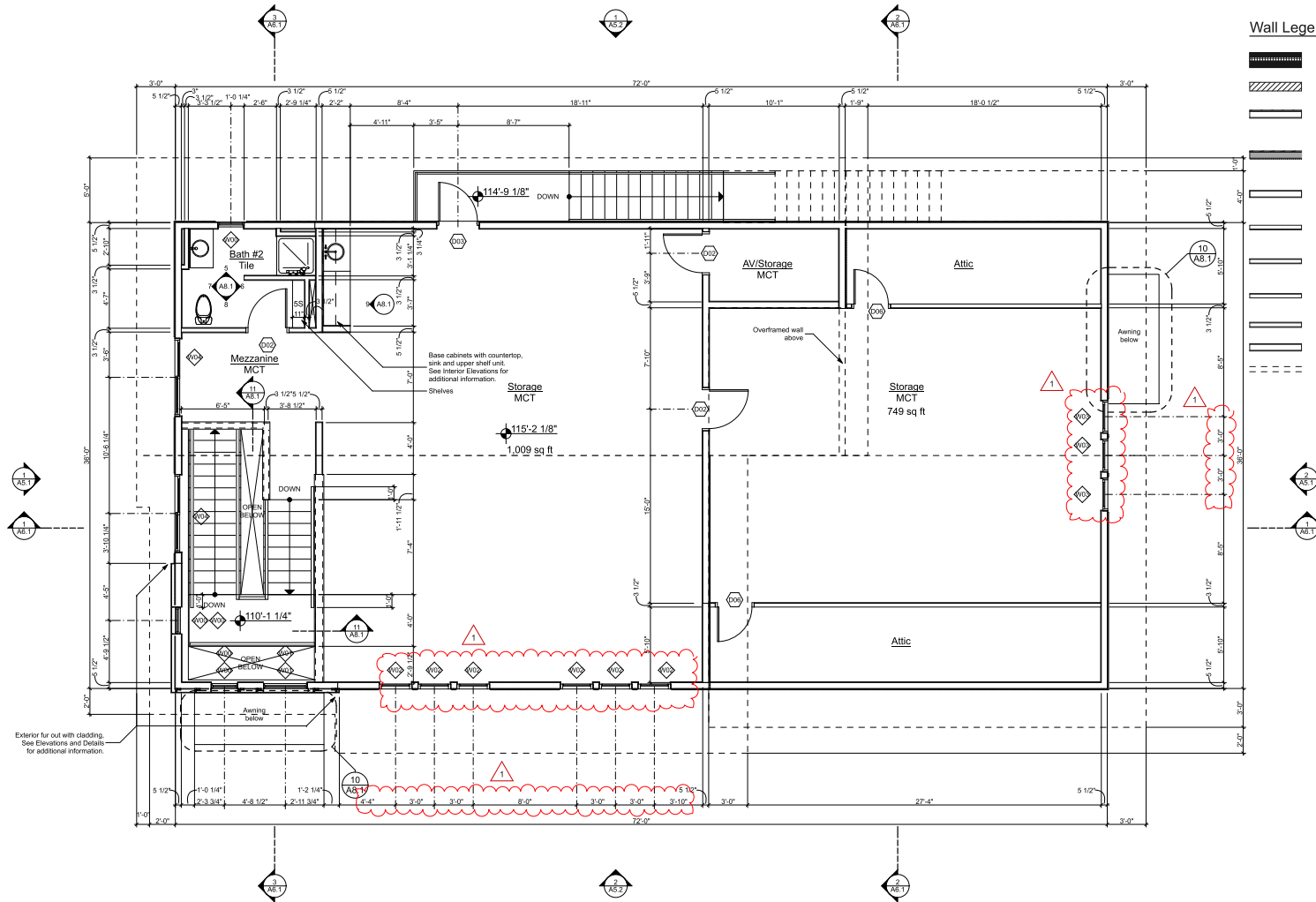
**1 First Floor Reflected Ceiling Plan**  
SCALE: 1/4" = 1'-0"





**Wall Legend:**

- 14" Concrete composite wall: 6" concrete, R-19 4" rigid insulation, 4" concrete.
- 8" Concrete wall.
- 2x6 wood studs with 1/2" sheathing, 3/4" siding on exterior, 5/8" gyp. board on interior, R-19 batt insulation.
- 2x6 wood studs with 1/2" sheathing, 3/4" siding on exterior, 5/8" gyp. board on interior, R-19 batt insulation. Over-framed wall.
- 2x6 wood studs with 5/8" gyp. board each side, R-19 batt insulation.
- 2x4 wood studs with 5/8" gyp. board on interior side, R-19 batt insulation.
- 2x4 wood studs with 1/2" sheathing each side, R-19 batt insulation.
- 2x4 wood studs with 1/2" sheathing on interior side, R-19 batt insulation.
- 2x4 wood studs with 5/8" gyp. board on each side.
- 2x6 wood studs with 5/8" gyp. board each side.
- 42" low wall with paint grade wood top cap.



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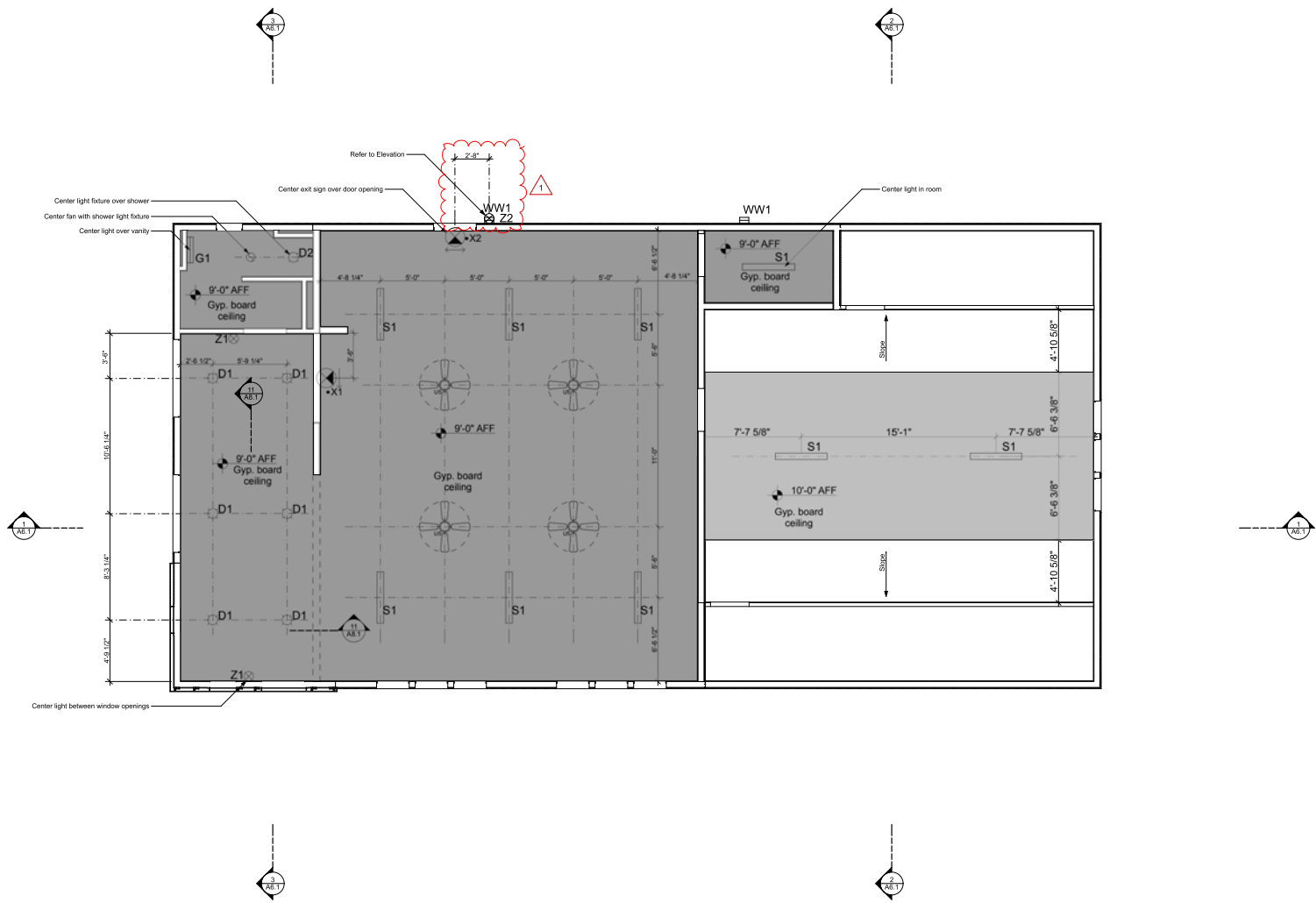
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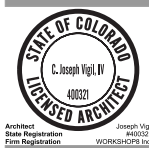
**A3.2**

**1 Second Floor Plan**  
SCALE: 1/4" = 1'-0"





- Power and lighting legend:**
- D1 6" round led downlight
  - D2 11.75" round wet labeled shower light
  - S1 10.5" square wet labeled shower light
  - S1 2" fluorescent vanity light
  - S1 4" linear fluorescent
  - M1 2" fluorescent wall bracket
  - Z1 Double frog eye
  - X1 Exit sign
  - X2 Exit sign with double frog eye
  - WW1 Wet location listed outdoor light
  - Z2 Outdoor led emergency fixture
  - ⊘ Ceiling exhaust fan
  - ⊞ Push button switch
  - ⊕ Motor outlet



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**A3.2.1**

Printed On: 10/15/14  
2nd Floor Plan reflected ceiling plan

1 Second Floor Reflected Ceiling Plan  
SCALE: 1/4" = 1'-0"





Architect  
State Registration  
Firm Registration  
Joseph Vigil  
#400321  
WORKSHOP8 LLC

**Jamestown Volunteer Fire Station**  
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The Town of Jamestown  
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Jamestown CO 80455

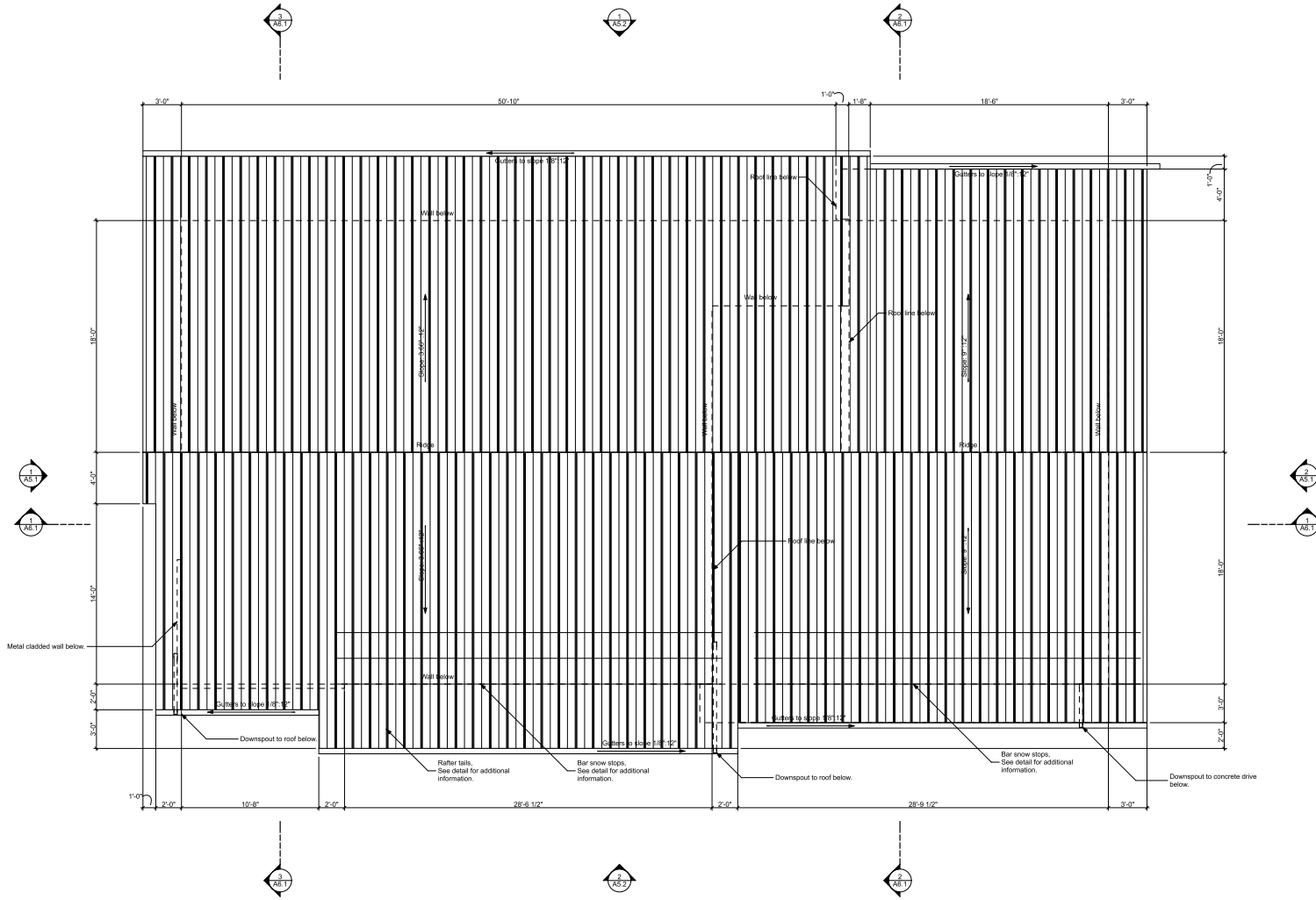
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**A3.3**

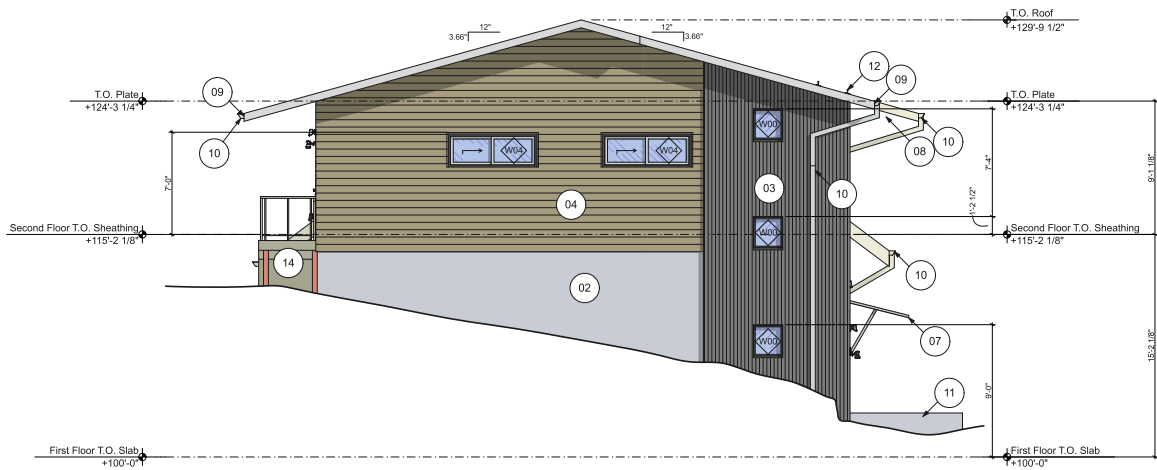
Printed On: 10/10/14

Roof Plan

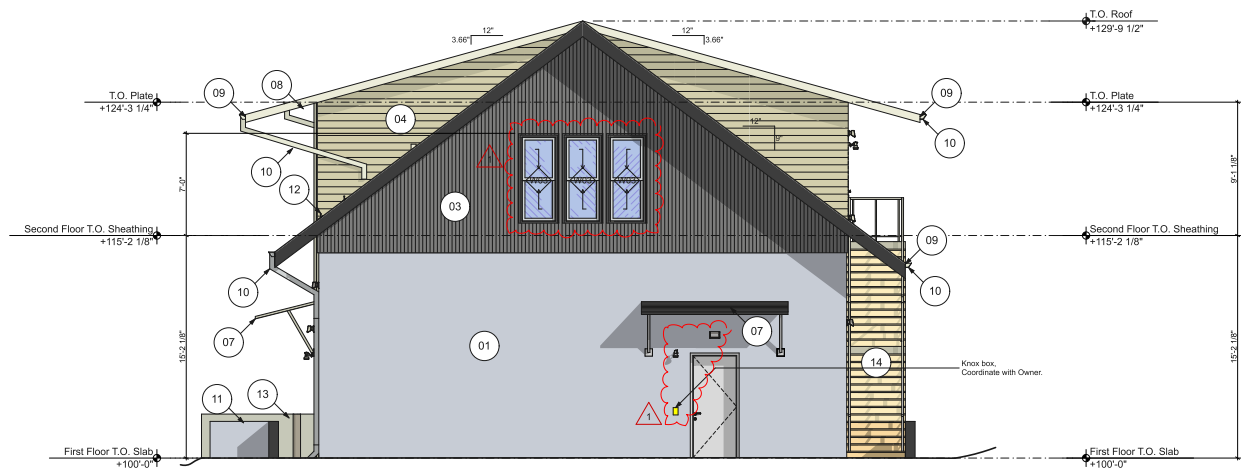


**1** Roof Plan  
SCALE: 1/4" = 1'-0"





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



2 East Elevation  
SCALE: 1/4" = 1'-0"

**Key Notes:**

- 01 Composite Concrete wall. See details for additional information.
- 02 8" Concrete wall.
- 03 Corrugated Metal Siding 1, Color TBD by Architect.
- 04 Metal Siding 2, Color TBD by Architect.
- 05 Concrete Beam/Columns. See Structural for additional information.
- 06 2" Standing Seam metal roof, Color TBD by Architect.
- 07 Awning with metal roofing. See detail for additional information.
- 08 Exposed rafter tails. See detail for additional information.
- 09 Painted fascia.
- 10 Gutter, Downspout.
- 11 Concrete retaining wall. See Civil for additional information.
- 12 Bar snow stops. See detail for additional information.
- 13 Steel bollard. Color TBD by Architect.
- 14 Steel stair. See detail for additional information.



Architect  
State Registration  
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C. Joseph Vigil, Jr.  
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Joseph Vigil  
860/0271  
WORKSHOP8, Inc.

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Jamestown CO 80455

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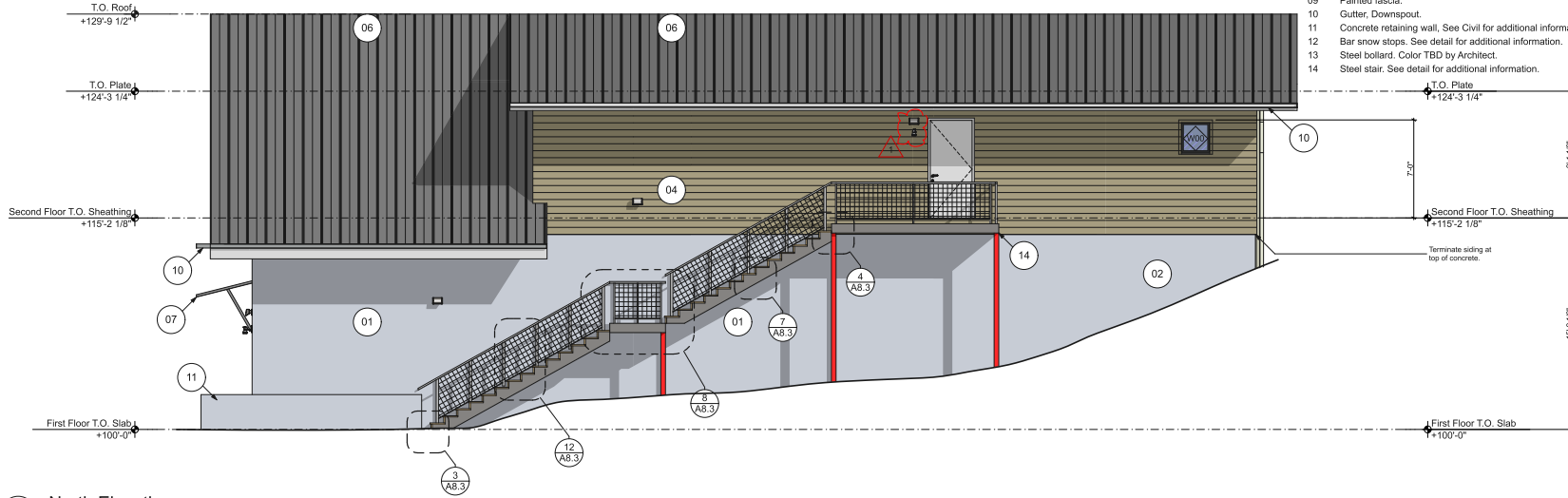
**A5.1**



Architect  
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Firm Registration  
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860/021  
WORKSHOP8 LLC

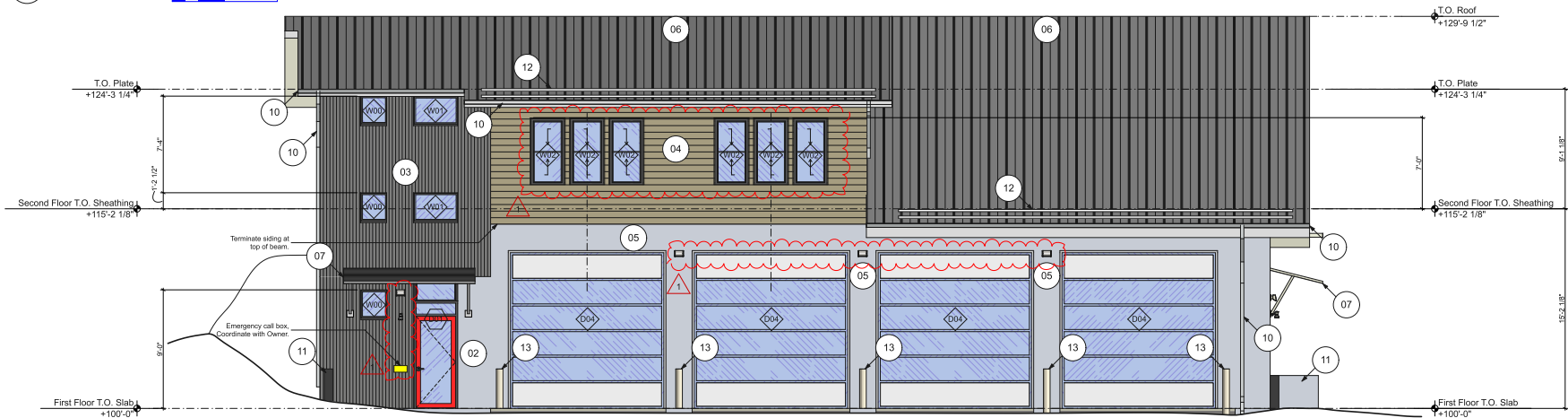
**Key Notes:**

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- 12 Bar snow stops. See detail for additional information.
- 13 Steel bollard. Color TBD by Architect.
- 14 Steel stair. See detail for additional information.



**1 North Elevation**

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



**2 South Elevation**

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



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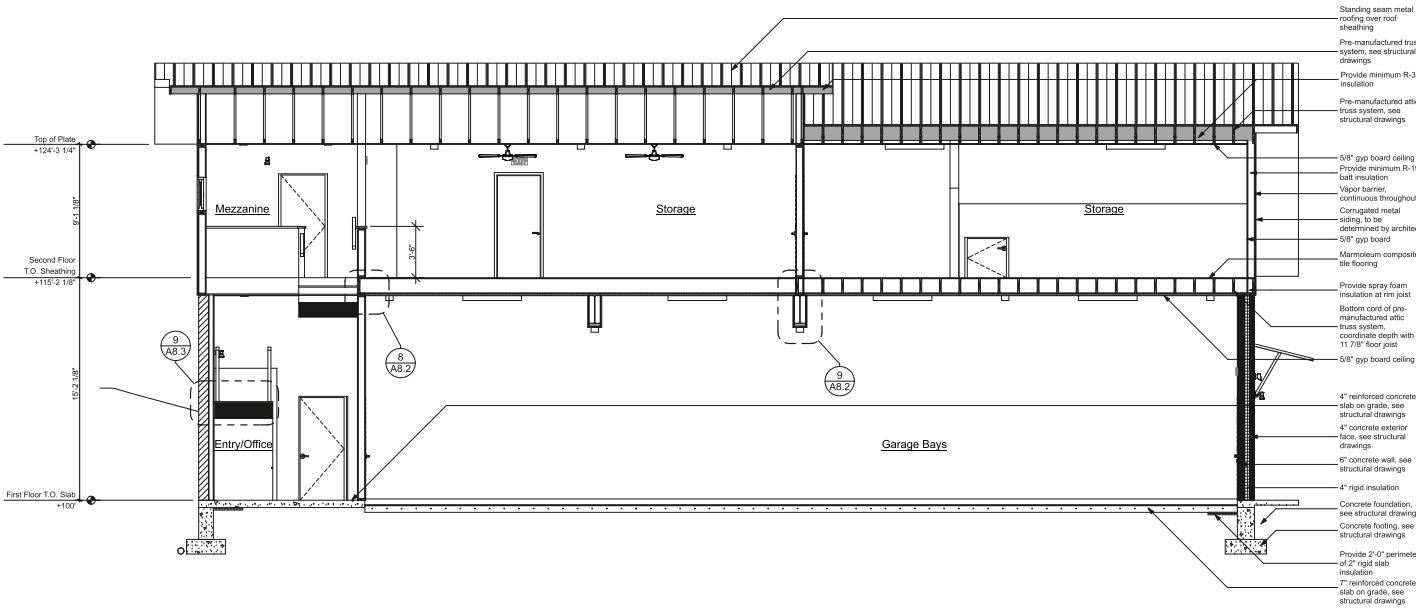
**A5.2**

Plotted On: 10/15/14

Elevations

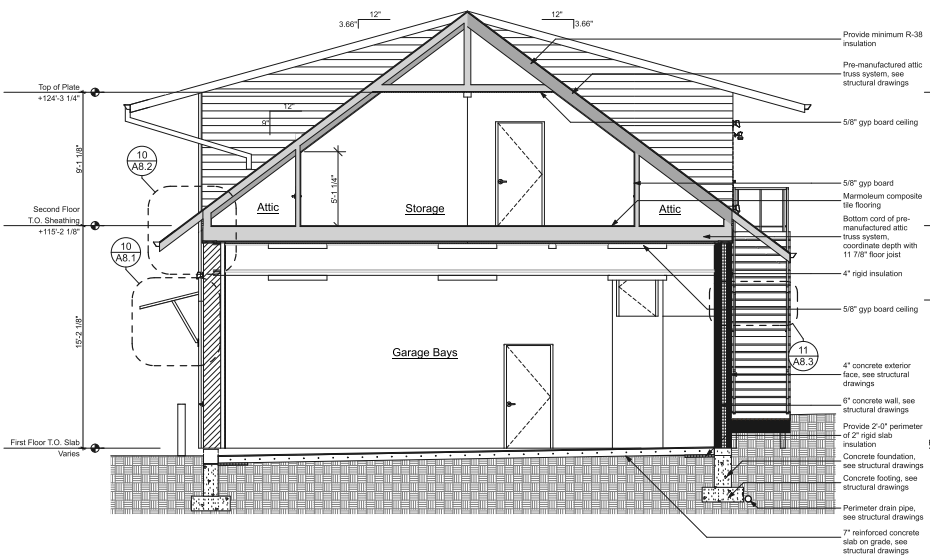


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C. Joseph Vigil, R.  
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Firm Registration  
Joseph Vigil  
R400321  
WORKSHOP8 LLC



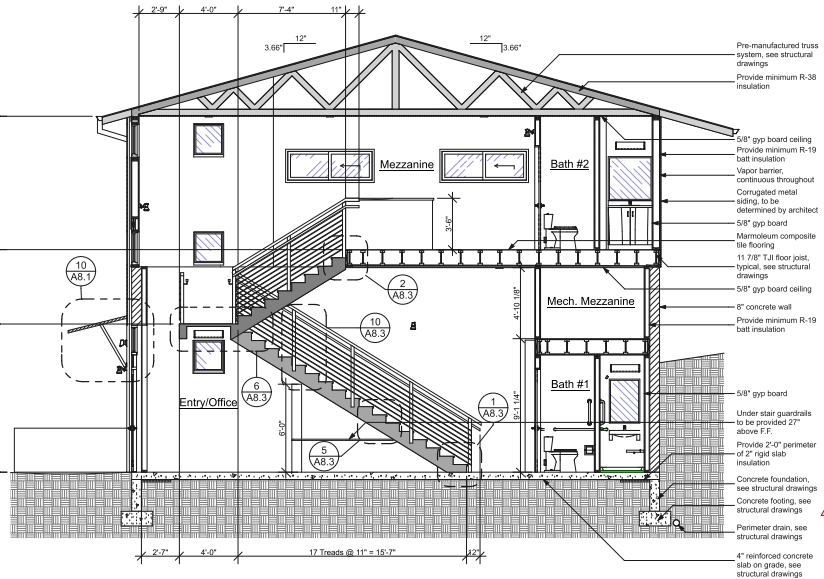
- Standing seam metal roofing over roof sheathing
- Pre-manufactured truss system, see structural drawings
- Provide minimum R-38 insulation
- Pre-manufactured attic truss system, see structural drawings
- 5/8" gypsum board ceiling
- Provide minimum R-19 batt insulation
- Vapor barrier, continuous throughout
- Corrugated metal siding, to be determined by architect
- 5/8" gypsum board
- Marmoleum composite tile flooring
- Provide spray foam insulation at rim joist
- Bottom cord of pre-manufactured attic truss system, coordinate depth with 11 7/8" floor joist
- 5/8" gypsum board ceiling
- 4" reinforced concrete slab on grade, see structural drawings
- 4" concrete exterior face, see structural drawings
- 6" concrete wall, see structural drawings
- 4" rigid insulation
- Concrete foundation, see structural drawings
- Concrete footing, see structural drawings
- Provide 2" rigid slab insulation
- 7" reinforced concrete slab on grade, see structural drawings

**1** Building Section (Looking North)  
SCALE: 1/4" = 1'-0"



- Provide minimum R-38 insulation
- Pre-manufactured attic truss system, see structural drawings
- 5/8" gypsum board ceiling
- 5/8" gypsum board
- Marmoleum composite tile flooring
- Bottom cord of pre-manufactured attic truss system, coordinate depth with 11 7/8" floor joist
- 4" rigid insulation
- 5/8" gypsum board ceiling
- 4" concrete exterior face, see structural drawings
- 6" concrete wall, see structural drawings
- Provide 2" rigid slab insulation
- Concrete foundation, see structural drawings
- Concrete footing, see structural drawings
- Perimeter drain pipe, see structural drawings
- 7" reinforced concrete slab on grade, see structural drawings

**2** Building Section (Looking West)  
SCALE: 1/4" = 1'-0"



- Pre-manufactured truss system, see structural drawings
- Provide minimum R-38 insulation
- 5/8" gypsum board ceiling
- Provide minimum R-19 batt insulation
- Vapor barrier, continuous throughout
- Corrugated metal siding, to be determined by architect
- Marmoleum composite tile flooring
- 11 7/8" floor joist, typical, see structural drawings
- 5/8" gypsum board ceiling
- 6" concrete wall
- 5/8" gypsum board
- Under stair guardrails to be provided 27" above F.F.
- Provide 2" rigid slab insulation
- Concrete foundation, see structural drawings
- Concrete footing, see structural drawings
- Perimeter drain, see structural drawings
- 4" reinforced concrete slab on grade, see structural drawings

**3** Building Section (Looking West)  
SCALE: 1/4" = 1'-0"

**Jamestown Volunteer Fire Station**  
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**A6.1**

Mark	Size		Quantity	Hardware	Closer	Type	Fire Rating	Notes
	W	HT						
D01	3'-0"	7'-0"	1	Lever with lockset		Insulated hollow metal with glass		
D2B	3'-0"	7'-0"	1	Lever	X	Solid core flush panel	45 Min.	
D02	3'-0"	7'-0"	4	Lever		Solid core flush panel		
D03	3'-0"	7'-0"	2	Lever with lockset	X	Insulated hollow metal	45 Min.	Provide door sweep and weather stopping.
D04	12'-0"	12'-0"	4				45 Min.	
D05	2'-6"	4'-0"	1	Lever		Solid core flush panel; Mechanical Door		Mechanical access door
D06	2'-8"	2'-8"	2	Lever		Solid core flush panel; Attic access panel.		Attic access doors

### 1 Door Schedule

#### Door General Notes

1. Ensure overhead doors meet UL 325.

ID	D01	D2B	D02	D03	D04	D05	D06
Nominal W x H Size	3'-0"x7'-0"	3'-0"x7'-0"	3'-0"x7'-0"	3'-0"x7'-0"	12'-0"x12'-0"	2'-6"x4'-0"	2'-8"x2'-8"
FRONT ELEVATION							
Quantity	1	1	4	2	4	1	2

### 2 Door Elevations

ID	W00	W01	W02	W03	W04
Nominal W x H Size	2'-0"x2'-3"	3'-4"x2'-3"	2'-6"x5'-0"	2'-6"x6'-0"	6'-0"x2'-3"
Elevation					
Quantity	7	2	6	3	2

### 3 Window elevations

Mark	Size		Head height	Operation type	Color	Quantity	Notes
	Width	Height					
W00	2'-0"	2'-3"	Refer Elevation	Awning	Black	7	Aluminum
W01	3'-4"	2'-3"	Refer Elevation	Awning	Black	2	Aluminum
W02	2'-6"	5'-0"	Refer Elevation	Single Hung	Black	6	Aluminum
W03	2'-6"	6'-0"	Refer Elevation	Single Hung	Black	3	Aluminum
W04	6'-0"	2'-3"	Refer Elevation	Slider	Black	2	Aluminum

### 4 Window Schedule

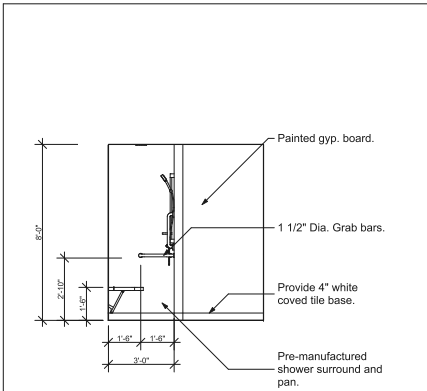
#### Window General Notes

1. All windows to be Integrity by Marvin.  
2. Window provider to verify tempered glazing requirements.

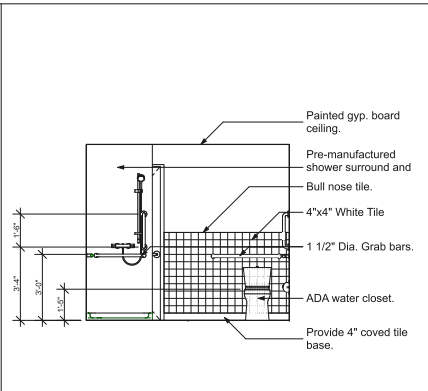


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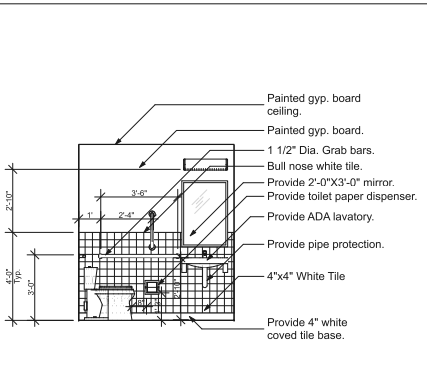




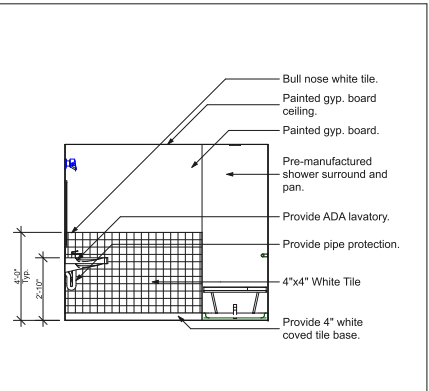
**1** Interior elevation  
SCALE: 3/8" = 1'-0"



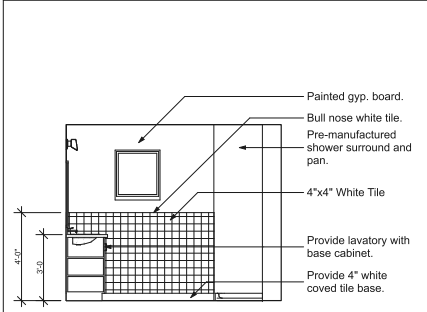
**2** Interior elevation  
SCALE: 3/8" = 1'-0"



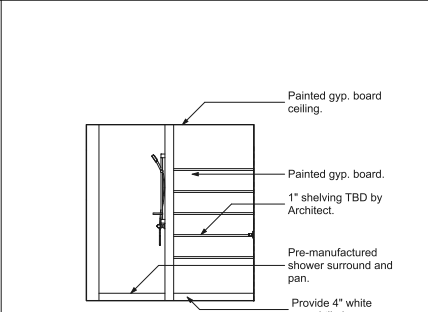
**3** Interior elevation  
SCALE: 3/8" = 1'-0"



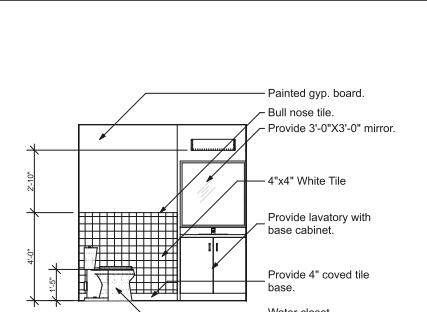
**4** Interior elevation  
SCALE: 3/8" = 1'-0"



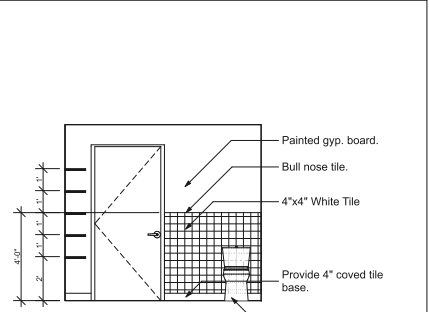
**5** Interior elevation  
SCALE: 3/8" = 1'-0"



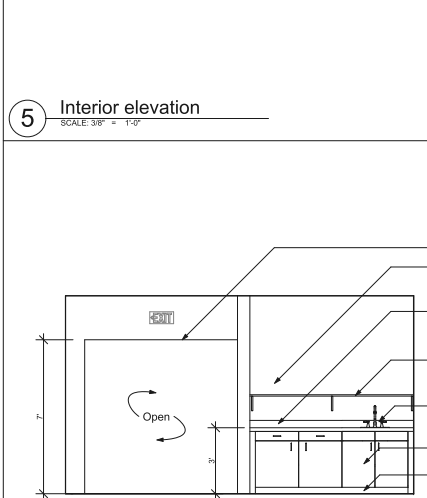
**6** Interior elevation  
SCALE: 3/8" = 1'-0"



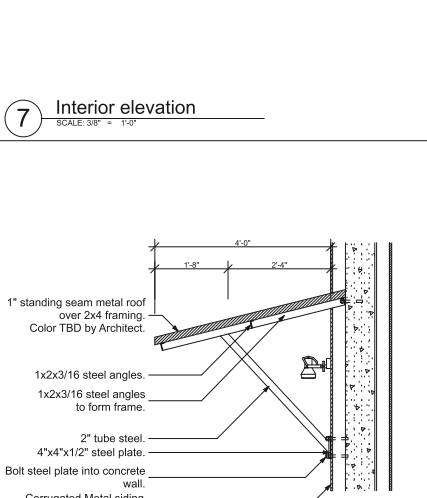
**7** Interior elevation  
SCALE: 3/8" = 1'-0"



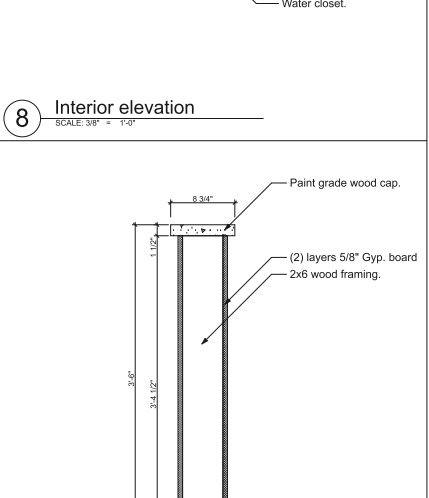
**8** Interior elevation  
SCALE: 3/8" = 1'-0"



**9** Interior elevation  
SCALE: 3/8" = 1'-0"



**10** Awning Section  
SCALE: 3/4" = 1'-0"



**11** Section  
SCALE: 1/16" = 1'-0"

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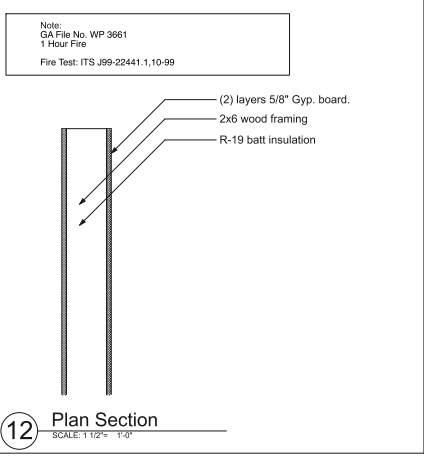
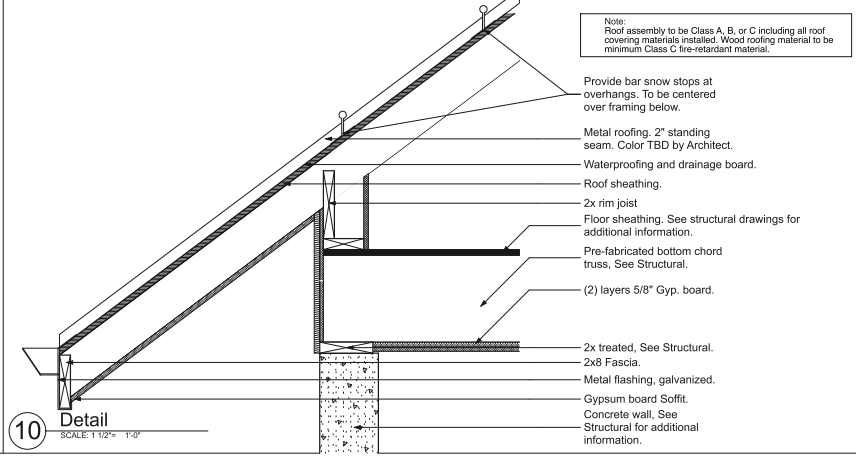
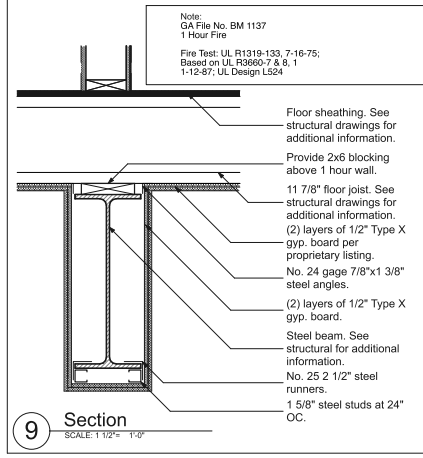
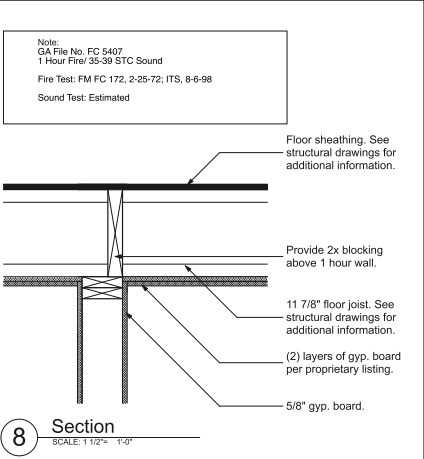
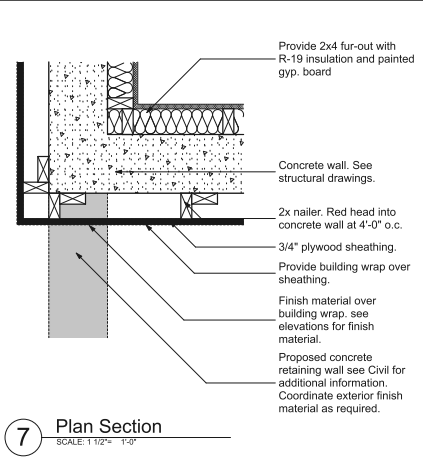
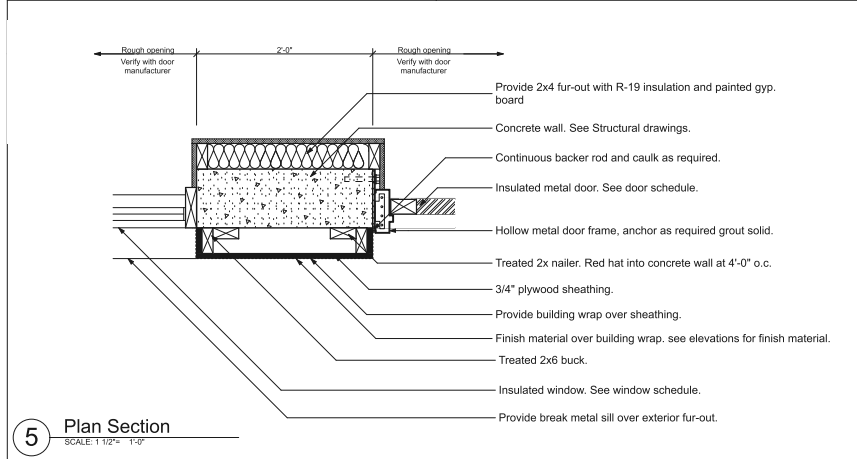
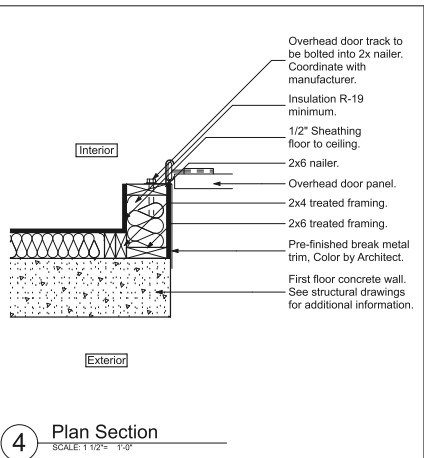
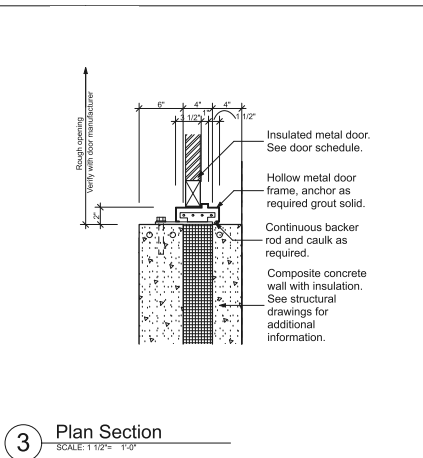
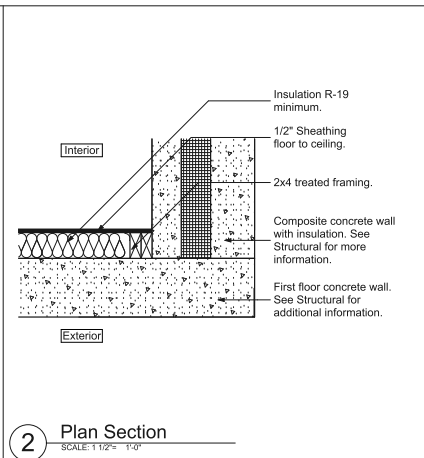
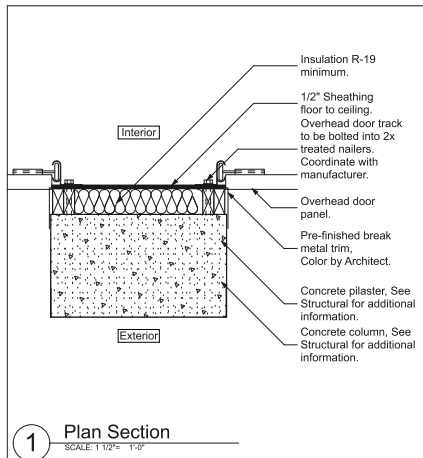
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**A8.1**



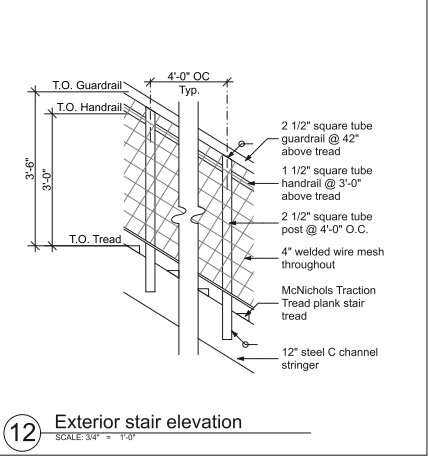
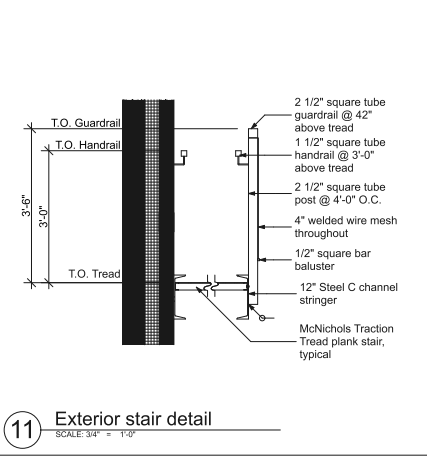
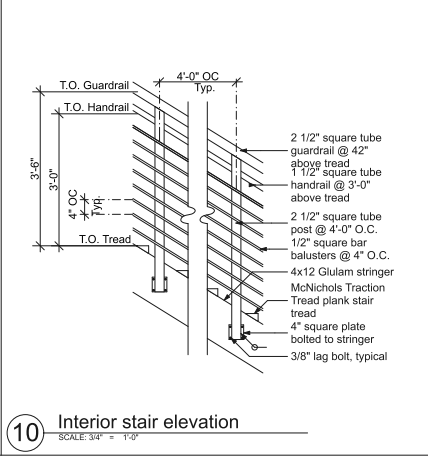
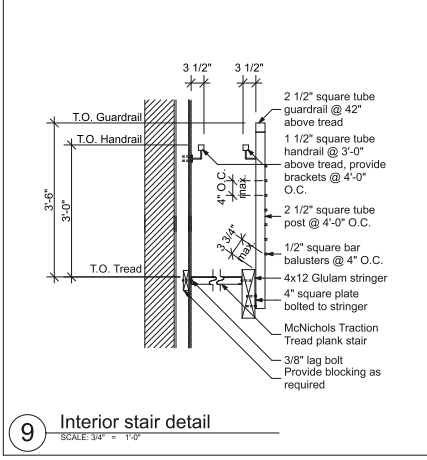
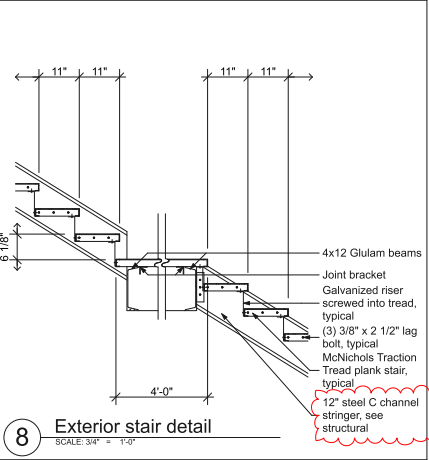
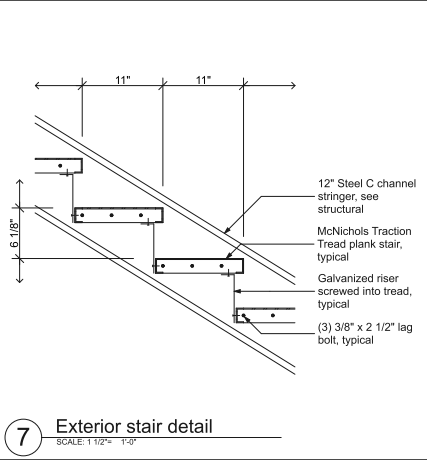
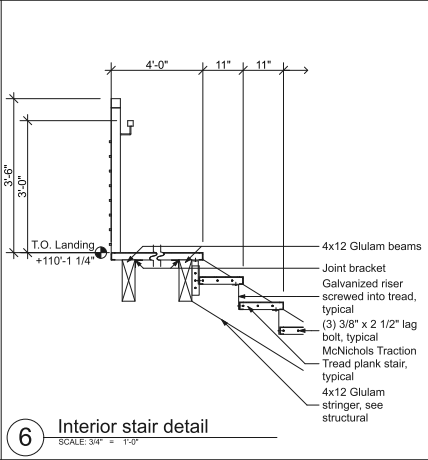
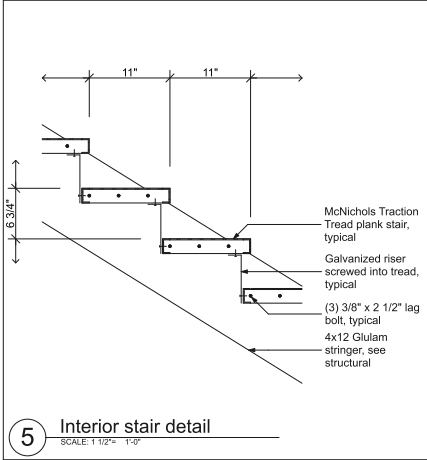
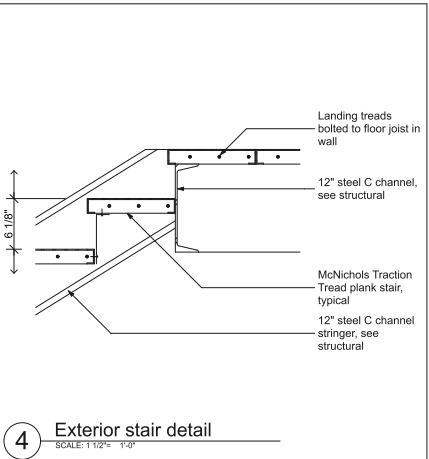
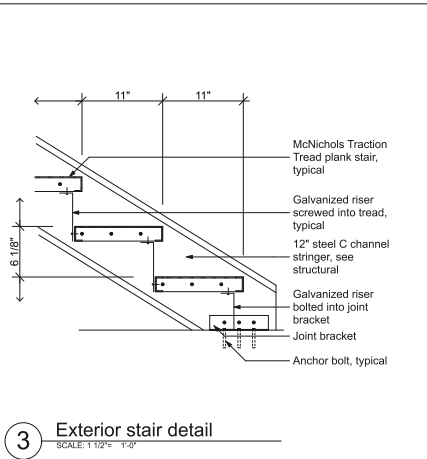
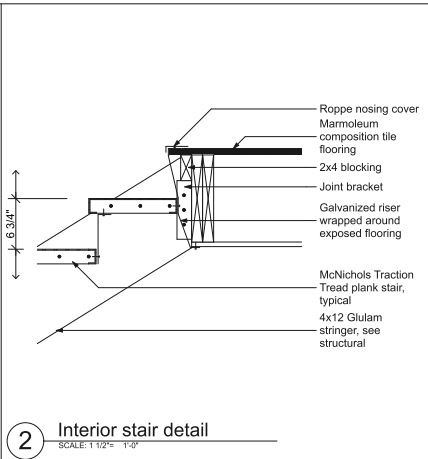
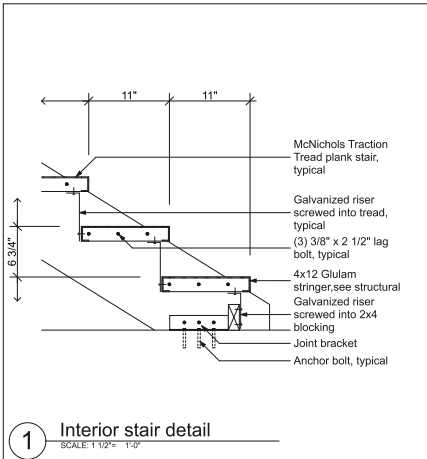
**Jamestown Volunteer Fire Station**  
**FLOOD RECOVERY**  
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Jamestown CO 80455

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**A8.2**

Printed On: 10/15/14  
Details



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**A8.3**

Printed On: 10/15/14  
Details



Revisions table with columns for Date, Description, and Item. Includes entries for July 2014 FDN Permit, July 2014 Demo Permit, and a blank entry for Date and Item.

1-800-922-1987  
CALL 2-BUSINESS DAYS IN ADVANCE  
FOR ALL PERMITS, PERMITS TO CONSTRUCT, AND UNDERGROUND MEMBER UTILITIES.

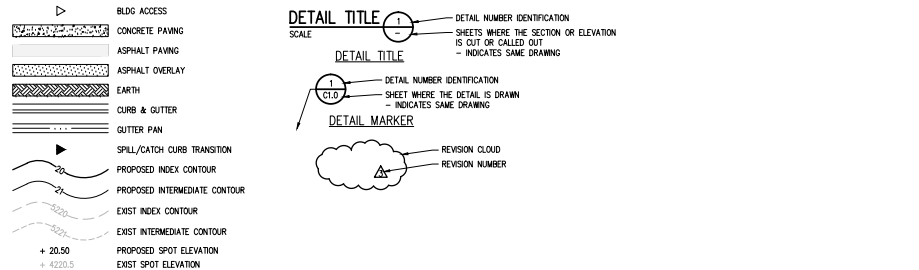
GENERAL NOTES:

- 1. ALL MATERIALS AND WORKMANSHIP SHALL BE IN CONFORMANCE WITH THE LATEST STANDARDS AND SPECIFICATIONS OF THE TOWN OF JAMESTOWN, BOULDER COUNTY, COLORADO DEPARTMENT OF TRANSPORTATION, JURISDICTIONAL FIRE PROTECTION REQUIREMENTS, AND APPLICABLE STATE AND LOCAL STANDARDS AND SPECIFICATIONS. THE CONTRACTOR SHALL HAVE IN POSSESSION AT THE JOB SITE AT ALL TIMES ONE (1) SIGNED COPY OF APPROVED STANDARDS AND SPECIFICATIONS. CONTRACTOR SHALL CONSTRUCT AND MAINTAIN EMERGENCY ACCESS ROUTES TO THE SITE AND CONSTRUCT AT ALL TIMES PER THE APPLICABLE FIRE PROTECTION DISTRICT REQUIREMENTS. THE CONTRACTOR SHALL OBTAIN WRITTEN APPROVAL FROM THE TOWN OF JAMESTOWN FOR ANY VARIANCE TO THE ABOVE DOCUMENTS. NOTIFY ENGINEER OF ANY CONFLICTING STANDARDS OR SPECIFICATIONS. IN THE EVENT OF ANY SUCH CONFLICT, STANDARD OR SPECIFICATION, THE MORE STRINGENT OR HIGHER QUALITY STANDARD, DETAIL OR SPECIFICATION SHALL APPLY.
- 2. THE CONTRACTOR SHALL OBTAIN, AT HIS OWN EXPENSE, ALL APPLICABLE CODES, LICENSES, STANDARDS, SPECIFICATIONS, PERMITS, BONDS, ETC., WHICH ARE NECESSARY TO PERFORM THE WORK, INCLUDING, BUT NOT LIMITED TO A LOCAL AND STATE GROUNDWATER DISCHARGE AND COLORADO DEPARTMENT OF HEALTH AND ENVIRONMENT (COPED) STORMWATER DISCHARGE PERMIT ASSOCIATED WITH CONSTRUCTION ACTIVITY.
- 3. THE CONTRACTOR SHALL BE RESPONSIBLE FOR NOTIFYING THE REQUIRED PARTY (OWNER, OWNER'S REPRESENTATIVE, MUNICIPAL/DISTRICT INSPECTOR, GEOTECHNICAL ENGINEER, ENGINEER AND/OR UTILITY OWNER) AT LEAST 48 HOURS PRIOR TO START OF ANY CONSTRUCTION. PRIOR TO BACKFILLING, AND AS REQUIRED BY JURISDICTIONAL AUTHORITY AND/OR PROJECT SPECIFICATIONS. THE CONTRACTOR SHALL CONTINUE WITH NOTIFICATIONS THROUGHOUT THE PROJECT AS REQUIRED BY THE STANDARDS AND SPECIFICATIONS.
- 4. THE LOCATIONS OF EXISTING UTILITIES ARE SHOWN IN THE APPROXIMATE LOCATION BASED ON INFORMATION BY OTHERS. NOT ALL UTILITIES MAY BE SHOWN. THE CONTRACTOR SHALL DETERMINE THE EXACT SIZE, LOCATION AND TYPE OF ALL EXISTING UTILITIES WHETHER SHOWN OR NOT BEFORE COMMENCING WORK. THE CONTRACTOR SHALL BE FULLY AND SOLELY RESPONSIBLE FOR ANY AND ALL DAMAGES AND COSTS WHICH MIGHT OCCUR BY THE CONTRACTOR'S FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES. THE CONTRACTOR SHALL NOTIFY ALL PUBLIC AND PRIVATE UTILITY COMPANIES AND DETERMINE THE LOCATION OF ALL EXISTING UTILITIES PRIOR TO PROCEEDING WITH GRADING AND CONSTRUCTION. ALL WORK PERFORMED IN THE AREA OF UTILITIES SHALL BE PERFORMED AND INSPECTED ACCORDING TO THE REQUIREMENTS OF THE UTILITY OWNER. LICENSEE, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND MARKING ANY EXISTING UTILITY (INCLUDING DEPTH) WHICH MAY CONFLICT WITH THE PROPOSED CONSTRUCTION, AND FOR RELOCATING ENCOUNTERED UTILITIES AS DIRECTED BY THE ENGINEER. CONTRACTOR SHALL CONTACT AND RECEIVE APPROVAL FROM THE TOWN OF JAMESTOWN, BOULDER COUNTY, AND THE ENGINEER BEFORE RELOCATING ANY ENCOUNTERED UTILITIES. CONTRACTOR IS RESPONSIBLE FOR SERVICE CONNECTIONS, AND RELOCATING AND RECONNECTING AFFECTED UTILITIES AS COORDINATED WITH UTILITY OWNER AND/OR ENGINEER, INCLUDING NON-MUNICIPAL UTILITIES (TELEPHONE, GAS, CABLE, ETC., WHICH SHALL BE COORDINATED WITH THE UTILITY OWNER). THE CONTRACTOR SHALL IMMEDIATELY CONTACT ENGINEER UPON DISCOVERY OF A UTILITY DISCREPANCY OR CONFLICT. AT LEAST 48 HOURS PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY CENTER OF COLORADO (1-800-922-1987, WWW.CO2.CORO).
- 5. THE CONTRACTOR SHALL BE SOLELY AND COMPLETELY RESPONSIBLE FOR CONDITIONS AT AND ADJACENT TO THE JOB SITE, INCLUDING SAFETY OF ALL STATIONS AND PROPERTY DURING THE WORK. THE CONTRACTOR SHALL PREPARE A TRAFFIC CONTROL PLAN FOR PUBLIC SAFETY, CITY AND/OR COUNTY APPROVAL AND PROVIDE ALL LIGHTS, SIGNS, BARRICADES, FENCING, FLAGMEN OR OTHER DEVICES NECESSARY TO PROVIDE FOR PUBLIC SAFETY. THIS REQUIREMENT SHALL APPLY CONTINUOUSLY AND NOT BE LIMITED TO NORMAL WORKING HOURS. THE CONTRACTOR AGREES TO COMPLY WITH THE PROVISIONS OF THE TRAFFIC CONTROL PLAN AND THE LATEST EDITION OF THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", PART V, FOR CONSTRUCTION SIGNS AND TRAFFIC CONTROL. ALL TEMPORARY AND PERMANENT TRAFFIC SIGNS SHALL COMPLY TO THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD) WITH REGARD TO SIGN SHAPE, COLOR, SIZE, LETTERING, ETC. UNLESS OTHERWISE SPECIFIED. IF APPLICABLE, PART NUMBERS ON SIGNAGE DETAILS REFER TO MUTCD SIGN NUMBERS.
- 6. THE CONTRACTOR SHALL BE RESPONSIBLE FOR REMOVING ANY GROUNDWATER ENCOUNTERED DURING THE CONSTRUCTION OF ANY PORTION OF THIS PROJECT. GROUNDWATER SHALL BE PUMPED, PIPED, REMOVED AND DISPOSED OF IN A MANNER WHICH DOES NOT CAUSE FLOODING OF EXISTING STRINGS NOR EROSION ON ADJUTING PROPERTIES IN ORDER TO RESTORE THE IMPROVEMENTS SHOWN ON THESE PLANS.
- 7. RIM AND GRATE ELEVATIONS SHOWN ON PLANS ARE APPROXIMATE ONLY AND ARE NOT TO BE TAKEN AS FINAL ELEVATIONS. THE CONTRACTOR SHALL ADJUST RIMS AND OTHER IMPROVEMENTS TO MATCH FINAL PAVEMENT AND FINISHED GRADE ELEVATIONS.
- 8. THE EXISTING AND PROPOSED ELEVATIONS OF FLOWWORK, SEWERLINES, CURBS, PAVING, ETC. AS SHOWN HEREIN ARE BASED ON EXTRAPOLATION OF FIELD SURVEY DATA AND EXISTING CONDITIONS. AT CRITICAL AREAS, THE CONTRACTOR SHALL HAVE FORMWORK INSPECTED AND APPROVED BY OWNER, ENGINEER'S REPRESENTATIVE, OR ENGINEER PRIOR TO PLACING CONCRETE. MINOR ADJUSTMENTS, AS APPROVED, TO PROPOSED GRATES, INVERTS, ETC. MAY BE REQUIRED TO PREVENT PONING OR SLOPE NOT IN CONFORMANCE WITH MUNICIPAL STANDARDS. ALL FLOWWORK MUST PREVENT PONING AND PROVIDE POSITIVE DRAINAGE AWAY FROM EXISTING AND PROPOSED BUILDINGS, WALLS, ROOF DRAIN OUTFALLS, ACROSS DRIVES AND WALKS, ETC., TOWARDS THE PROPOSED INTENDED DRAINAGE FEATURES AND CONVEYANCES.
- 9. FINAL LIMITS OF REQUIRED ASPHALT SAWCUTTING AND PATCHING MAY VARY FROM LIMITS SHOWN ON PLANS. CONTRACTOR TO PROVIDE SAWCUT AND PATCH WORK TO ACHIEVE POSITIVE DRAINAGE AND A SMOOTH TRANSITION TO EXISTING ASPHALT WITHIN SLOPES ACCEPTABLE TO THE ENGINEER AND WITHIN MUNICIPAL STANDARDS. CONTRACTOR SHALL PROVIDE ADDITIONAL SAWCUTTING AND PATCHING AT UTILITY WORK CONNECTION POINTS TO EXISTING PAVEMENT AND FEATURES, ETC. THAT MAY NOT BE DELINEATED ON PLANS.
- 10. ANY EXISTING MONITORING WELLS, CLEANOUTS, VALVE BOXES, ETC. TO BE PROTECTED AND TO REMAIN IN SERVICE. IF FEATURES EXIST, EXTEND OR LOWER TO FINAL SURFACE WITH LINE KIND CAP WITH STANDARD CAST ACCESS LID WITH SAME MARKINGS. IN LANDSCAPED AREAS PROVIDE A CONCRETE COLLAR (MINIMUM 3" THICK) AT ALL EXISTING AND PROPOSED MONITORING WELLS, CLEANOUTS, VALVE BOXES, ETC.
- 11. OWNER TO APPROVE ALL CONCRETE FINISHING, JOINT PATTERNS AND COLORING REQUIREMENTS PRIOR TO CONSTRUCTION. SUBMIT JOINT PATTERN PLAN TO OWNER FOR APPROVAL PRIOR TO CONSTRUCTION.
- 12. PIPE LENGTHS AND HORIZONTAL CONTROL POINTS SHOWN ARE FROM CENTER OF STRUCTURES, END OF FLARED END SECTIONS, ETC. SEE STRUCTURE DETAILS FOR EXACT HORIZONTAL CONTROL LOCATION. CONTRACTOR IS RESPONSIBLE FOR ADJUSTING ACTUAL PIPE LENGTHS TO ACCOUNT FOR STRUCTURES AND LENGTH OF FLARED END SECTIONS.
- 13. ALL SURPLUS MATERIALS, TOOLS, AND TEMPORARY STRUCTURES, FURNISHED BY THE CONTRACTOR, SHALL BE REMOVED FROM THE PROJECT SITE BY THE CONTRACTOR. ALL DEBRIS AND BARRIERS CAUSED BY THE OPERATIONS OF THE CONTRACTOR SHALL BE REMOVED AND THE AREA OF CONSTRUCTION ACTIVITIES SHALL BE RESTORED TO ITS ORIGINAL CONDITION, WITHIN 48 HOURS OF PROJECT COMPLETION, UNLESS OTHERWISE DIRECTED BY THE MUNICIPALITY OR OWNER'S REPRESENTATIVE.
- 14. THE CONTRACTOR IS REQUIRED TO PROVIDE AND MAINTAIN EROSION AND SEDIMENT CONTROL MEASURES IN ACCORDANCE WITH THE LOCAL JURISDICTION, THE STATE OF COLORADO, URBAN DRAINAGE AND FLOOD CONTROL DISTRICT URBAN STORM DRAINAGE CRITERIA MANUAL, VOLUME 37, THE 48-STANDARD PLANS OF THE COLORADO DEPARTMENT OF TRANSPORTATION, AND THE APPROVED EROSION CONTROL PLAN. JURISDICTIONAL AUTHORITY MAY REQUIRE THE CONTRACTOR TO PROVIDE ADDITIONAL EROSION CONTROL MEASURES AT THE CONTRACTOR'S EXPENSE DUE TO UNFORESEEN EROSION PROBLEMS OR IF THE PLANS DO NOT FUNCTION AS INTENDED. THE CONTRACTOR IS RESPONSIBLE FOR PROHIBITING SLEET AND DEBRIS LAIDEN RUNOFF FROM LEAVING THE SITE, AND FOR KEEPING ALL PUBLIC AREAS FREE OF MUD AND DEBRIS. THE CONTRACTOR IS RESPONSIBLE FOR RE-ESTABLISHING FINAL GRADES AND FOR REMOVING ACCUMULATED SEDIMENTATION FROM ALL AREAS INCLUDING SWALES AND DETENTION/WATER QUALITY AREAS. CONTRACTOR SHALL REMOVE TEMPORARY EROSION CONTROL MEASURES AND REPAIR AREAS AS REQUIRED AFTER VEGETATION IS ESTABLISHED AND ACCEPTED BY OWNER AND MUNICIPALITY.
- 15. ADA COMPLIANCE: THE CROSS-SLOPE OF ALL WALKS MUST BE 2.0% MAX. PERPENDICULAR TO DIRECTION OF TRAVEL. MAXIMUM GRADE OF HANDICAPPED ACCESSIBLE WALKS MUST BE 5.0% MAX. IN DIRECTION OF TRAVEL. MAXIMUM GRADE OF ALL HANDICAP RAMPS IS 8.3% OVER A MAXIMUM 6" RISE. MAXIMUM GRADE AT HANDICAP RAMPS IS TYPICALLY 2.0% IN ALL DIRECTIONS. CONTRACTOR TO NOTIFY ENGINEER PRIOR TO PLACEMENT OF FLOWWORK OF SITE CONDITIONS OR DISCREPANCIES WHICH PREVENT TYPICAL REQUIRED GRADES FROM BEING ACHIEVED. ALL RAMPS, STAIRS AND RAMMING SHALL BE CONSTRUCTED IN ACCORDANCE WITH CURRENT ADA STANDARDS. HANDICAP RAMPS SHALL CONFORM TO CDDOT M-STANDARDS (SEE DETAIL M-608-1, ETC.)
- 16. BENCHMARK INFORMATION: TOPOGRAPHIC INFORMATION WAS PROVIDED BY FLATRONS SURVEYING. SEE "TOPOGRAPHIC EXHIBIT DATED 7-21-2014". A GPS DERIVED ELEVATION WAS ESTABLISHED AT AN ON-SITE BENCHMARK AT THE WESTERN PORTION OF LOT 15, BEING A SET SPIKE WITH AN ELEVATION OF 6935.12'. A CHECK SHOT WAS TAKEN ON NOS POINT STOKES, BEING A HORIZONTAL CONTROL, DISC LOCATED 2.5 MILES FROM THE SITE WITH A PUBLISHED ELEVATION OF 7900' (NA888). COORDINATE AND VERIFY ALL VERTICAL AND HORIZONTAL DATA SHOWN IN SURVEY AND REPORT ANY IRREGULARITIES OR DISCREPANCIES TO ENGINEER PRIOR TO CONSTRUCTION.
- 17. LEGAL DESCRIPTION: LOT 15 AND PART OF LOT 16, BLOCK 10, JAMESTOWN, LOCATED IN THE SOUTHEAST QUARTER OF SECTION 19, TOWNSHIP 2 NORTH, RANGE 71 WEST OF THE 6TH P.M., JAMESTOWN, COUNTY OF BOULDER, STATE OF COLORADO
- 18. PROTECT ALL TREES AND VEGETATION. PLACE CONSTRUCTION FENCING AT DRIP LINE OF TREES AND PLANTS NEAR THE WORK ZONE. DEEP WATER TREES WEEKLY. HAND EXCAVATION REQUIRED AT ROOT ZONES WHERE PROPOSED PAVING OR UTILITY WORK IS WITHIN DRIPLINE OF TREES.
- 19. THE CONTRACTOR SHALL FURNISH THE ENGINEER OF RECORD A COMPLETE SET OF CONSTRUCTION RECORD DRAWINGS ("AS-BUILTS") FOR THE CONSTRUCTED IMPROVEMENTS. THE PLANS SHALL SHOW SUFFICIENT DIMENSION TIES TO PERMANENT SURFACE FEATURES FOR ALL BURRED FACILITIES TO ALLOW FOR FUTURE LOCATING. THE PLANS SHALL SHOW FINAL PAVEMENT, FLOW LINE ELEVATIONS, CONTROLS AT FLOW/DRAINAGE FEATURES (AS SURVEYED AND CERTIFIED BY A COLORADO P.L.S.), MANHOLE, PIPE, AND INLET LOCATIONS, INVERTS, GRATE ELEVATIONS, SIZES OF ALL UTILITIES, AND ANY VARIATIONS FROM THE APPROVED PLAN. ENGINEER WILL PROVIDE FINAL RECORD DRAWINGS.
- 20. LOCATIONS OF CLEANOUTS, LIGHTS, SIGNAGE, ANCHOR BOXES, AND OTHER SIGNIFICANT SITE FEATURES TO BE STAMED FOR ENGINEER AND OWNER APPROVAL PRIOR TO WORK. LOCATIONS OF CLEANOUT BOXES, AND ADJACENT GRADES TO BE RAISED ONE-HALF INCH AT ASPHALT/CONCRETE (OR 1" AT LANDSCAPING) TO PROVIDE POSITIVE DRAINAGE AWAY FROM FEATURES.

ABBREVIATIONS:

Table listing abbreviations for construction elements like END VERTICAL CURVE STATION, EXIST, FOUNDATION, FINISHED GRADE, FIRE HYDRANT, etc.

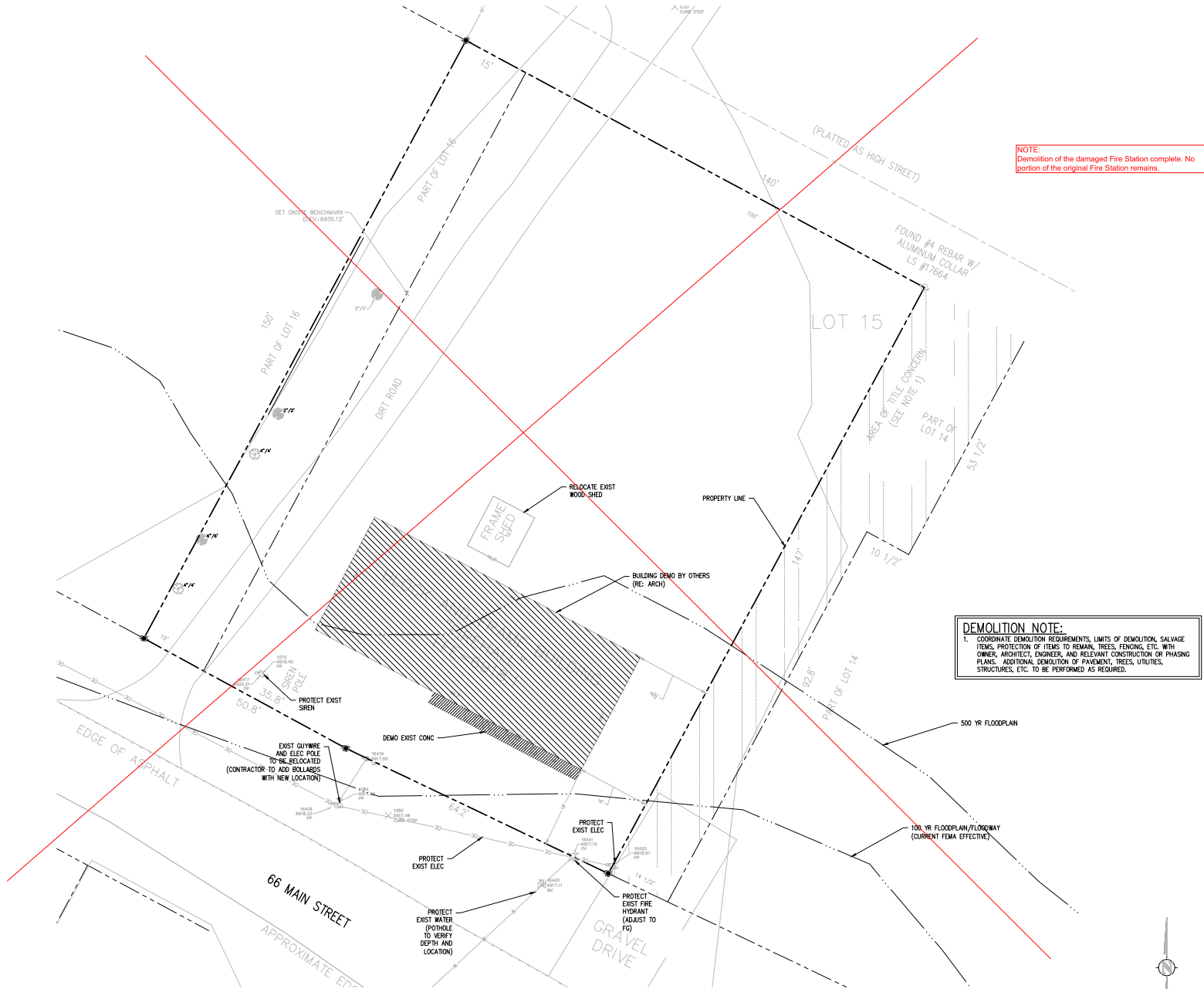
SYMBOLS



LEGEND

Legend table mapping symbols to their meanings: SURVEY CONTROL POINT, BENCHMARK, PROPOSED MANHOLE, EXISTING MANHOLE, 15' AREA DRAIN, 12' AREA DRAIN, COMBINATION INLET, TYPE R INLET, TYPE 13 FIELD INLET, FLARED END SECTION, RIRPAP, THRUST BLOCK, TEE W/ THRUST BLOCK, BEND W/ THRUST BLOCK, END CAP W/ THRUST BLOCK, GATE VALVE, REDUCER/INCREASER, WATER METER, FIRE HYDRANT, LIGHT POLE, SIGN, STORM DRAIN, ROOF DRAIN, SANITARY SEWER, IRRIGATION, UNDERDRAIN, TRENCH DRAIN, FLOOR DRAIN / FOUNDATION DRAIN, CURTAIN DRAIN, TELEPHONE, ELECTRIC, OVERHEAD ELECTRIC, UNDERGROUND ELECTRIC, CABLE TV, FIBER OPTIC, FORCE MAIN, INFLUENT, EFFLUENT, WASTE ACTIVATED SLUDGE, RETURN ACTIVATED SLUDGE, AIR LINE, FLOW LINE, FENCE, ABANDON UTILITY, DEMO UTILITY / STRUCTURE, DEMO TREE, LIMITS OF SANKUT, PROPERTY LINE / ROW, EASEMENT LINE, LIMITS OF WORK, MATSHINE, PROPOSED BUILDING, EXIST BUILDING, BLDG ACCESS, CONCRETE PAVING, ASPHALT PAVING, ASPHALT OVERLAY, EARTH, CURB & GUTTER, GUTTER PAN, SPILL/CATCH CURB TRANSITION, PROPOSED INDEX CONTOUR, PROPOSED INTERMEDIATE CONTOUR, EXIST INDEX CONTOUR, EXIST INTERMEDIATE CONTOUR, PROPOSED SPOT ELEVATION, EXIST SPOT ELEVATION.

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**NOTE:**  
Demolition of the damaged Fire Station complete. No portion of the original Fire Station remains.

**DEMOLITION NOTE:**  
1. COORDINATE DEMOLITION REQUIREMENTS, LIMITS OF DEMOLITION, SALVAGE ITEMS, PROTECTION OF ITEMS TO REMAIN, TREES, FENCING, ETC. WITH OWNER, ARCHITECT, ENGINEER, AND RELEVANT CONSTRUCTION OR PHASING PLANS. ADDITIONAL DEMOLITION OF PAVEMENT, TREES, UTILITIES, STRUCTURES, ETC. TO BE PERFORMED AS REQUIRED.

**Jamestown Volunteer Fire Station**  
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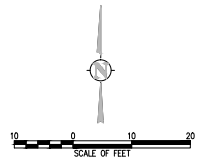
Revisions

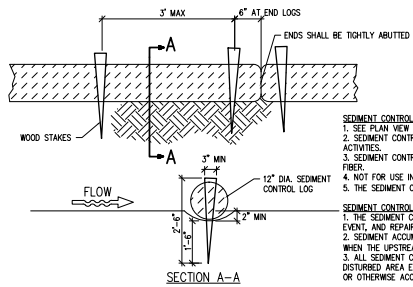
-30 July 2014	FDN Permit
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**C0.2**

Plotted On: 7/29/14

DEMOL PLAN

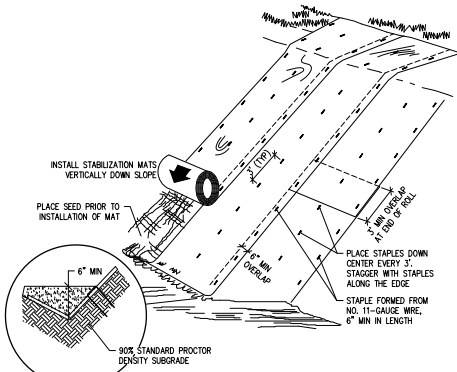




- SEDIMENT CONTROL LOG INSTALLATION NOTES:**
1. SEE PLAN VIEW FOR LOCATION AND EXTENT OF SEDIMENT CONTROL LOGS.
  2. SEDIMENT CONTROL LOGS SHALL BE INSTALLED PRIOR TO ANY LAND DISTURBING ACTIVITIES.
  3. SEDIMENT CONTROL LOGS SHALL CONSIST OF STRAW, COMPOST, EXCELISOR, OR COCONUT FIBER.
  4. NOT FOR USE IN CONCENTRATED FLOW AREAS.
  5. THE SEDIMENT CONTROL LOG SHALL BE TRENCHED INTO THE GROUND A MINIMUM OF 2".

- SEDIMENT CONTROL LOG MAINTENANCE:**
1. THE SEDIMENT CONTROL LOGS SHALL BE INSPECTED DAILY, DURING AND AFTER ANY STORM EVENT, AND REPAIRED OR HAVE ANY UPSTREAM SEDIMENT REMOVED.
  2. SEDIMENT ACCUMULATED UPSTREAM OF SEDIMENT CONTROL LOGS SHALL BE REMOVED WHEN THE UPSTREAM SEDIMENT DEPTH IS WITHIN 1/2 THE HEIGHT OF THE CREST OF LOG.
  3. ALL SEDIMENT CONTROL LOGS SHALL BE REMOVED AT THE END OF CONSTRUCTION IF ANY DISTURBED AREA EXISTS AFTER REMOVAL, IT SHALL BE DRILL SEEDED AND CRIMP MULCHED OR OTHERWISE ACCEPTABLY STABILIZED.

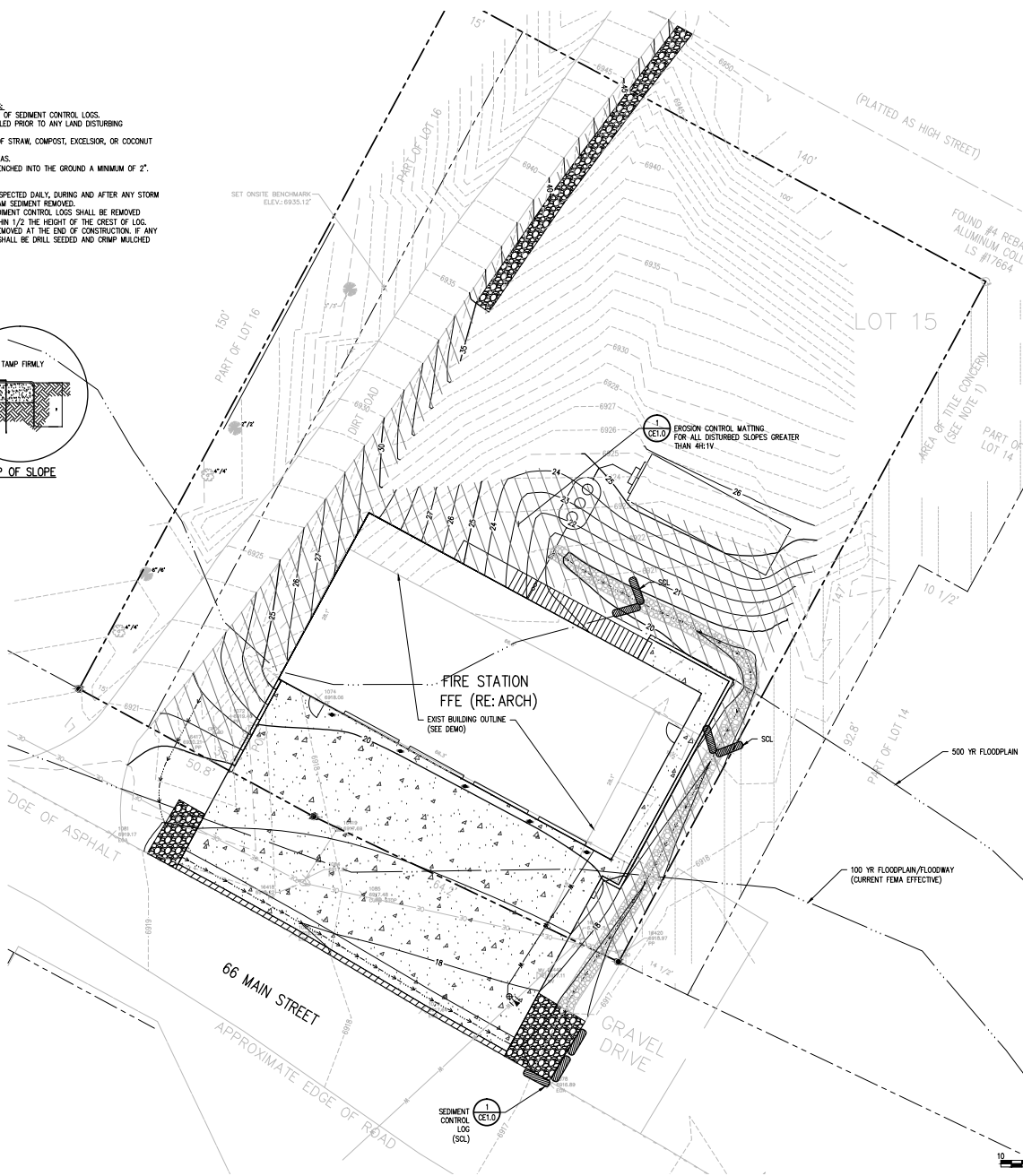
**SECTION A-A**  
**SEDIMENT CONTROL LOG** (1) (CE1.0)  
NTS



**SLOPE PROTECTION DETAIL** (1) (CE1.0)  
NTS

**LEGEND**

- PROPOSED INDEX CONTOUR
- PROPOSED INTERMEDIATE CONTOUR
- EXIST INDEX CONTOUR
- EXIST INTERMEDIATE CONTOUR
- PROPOSED SPOT ELEVATION
- EXIST SPOT ELEVATION
- INLET PROTECTION
- STRAW BALE EROSION BARRIER
- VEHICLE TRACKING CONTROL
- SILT FENCE
- PIPE OUTLET PROTECTION
- TEMPORARY DIVERSION DIKE
- SLOPE ROUGHENING
- ROCK CHECK DAM
- EROSION CONTROL MATTING
- SEDIMENT BASIN
- CONCRETE WASHOUT
- ROUGH CUT STREET CONTROL
- SEDIMENT CONTROL LOG
- CONSTRUCTION FENCE



**SEDIMENT CONTROL LOG (SCL)** (1) (CE1.0)



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**CE1.0**

Printed On: 7/29/14

EROSION CONTROL PLAN



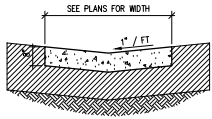
**Jamestown Volunteer Fire Station**  
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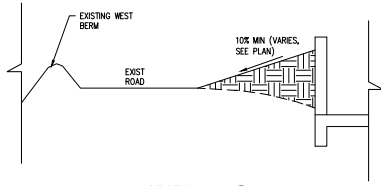
**C1.0**  
Plotted On: 7/26/14

GRADING & DRAINAGE PLAN

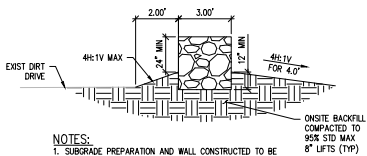


- NOTES:**  
1. SEE C3.0 FOR CONTRACTION AND EXPANSION JOINT DETAILS.  
3. COMPACT SUBGRADE PER SPECIFICATIONS.

**DRAINAGE PAN DETAIL**  
NTS

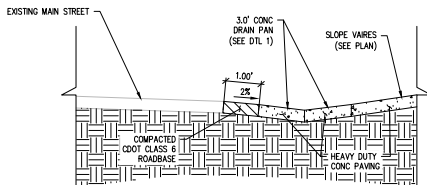


**SECTION A**  
C1.0

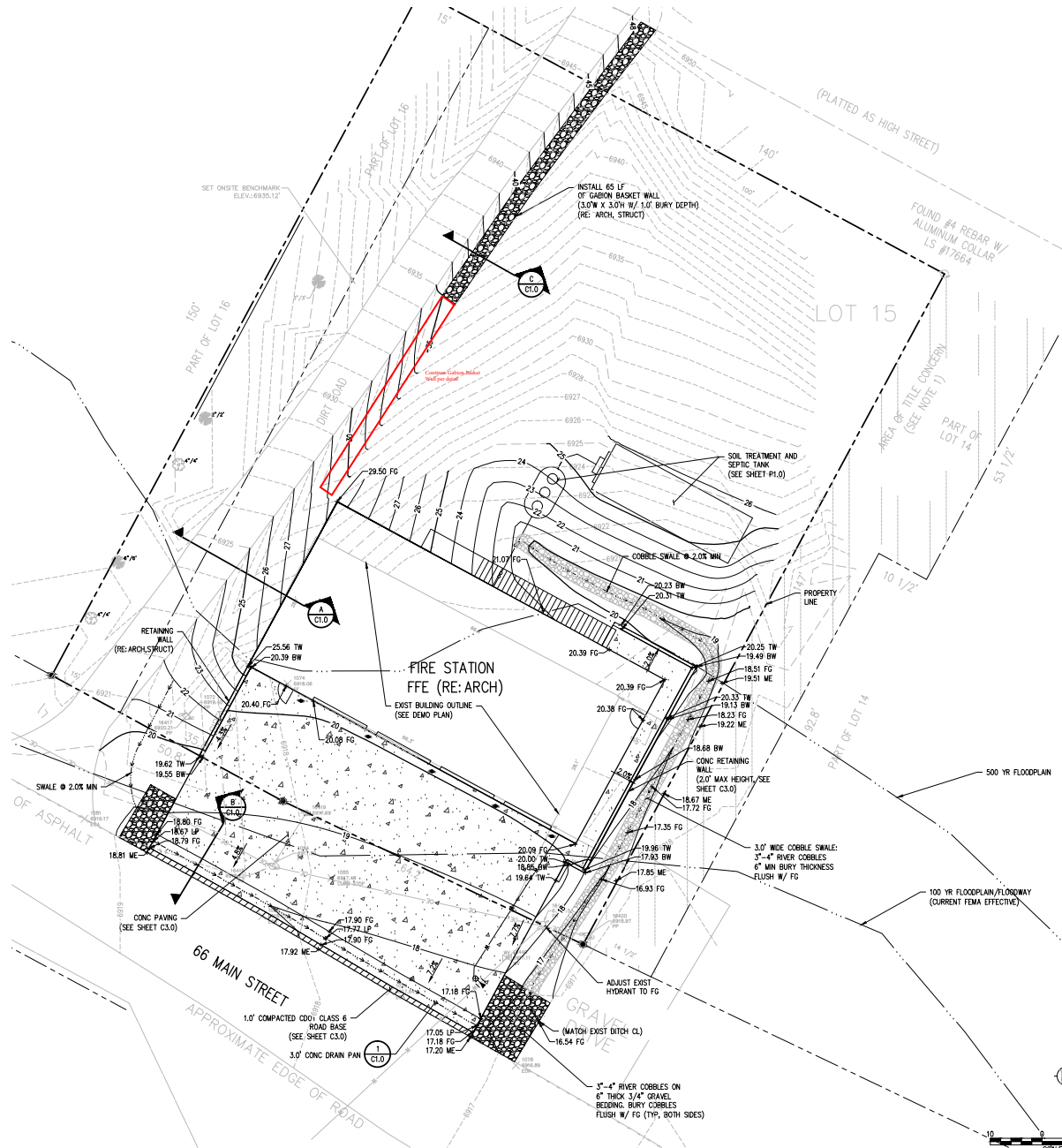


- NOTES:**  
1. SUBGRADE PREPARATION AND WALL CONSTRUCTED TO BE TESTED AND HONORED BY GEOTECHNICAL ENGINEER  
2. GABIONS TO BE 11GA PVC COATED AFTER GALVANIZING. USE 4" TO 8" DIA ON SITE STONE FILL

**GABION WALL DETAIL**  
NTS



**SECTION B**  
C1.0





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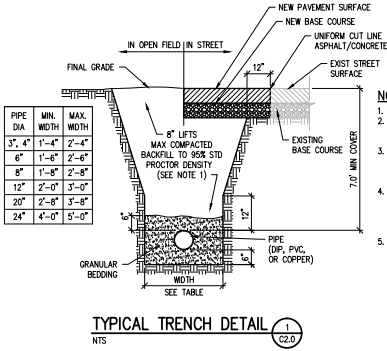
Revisions

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**C2.0**

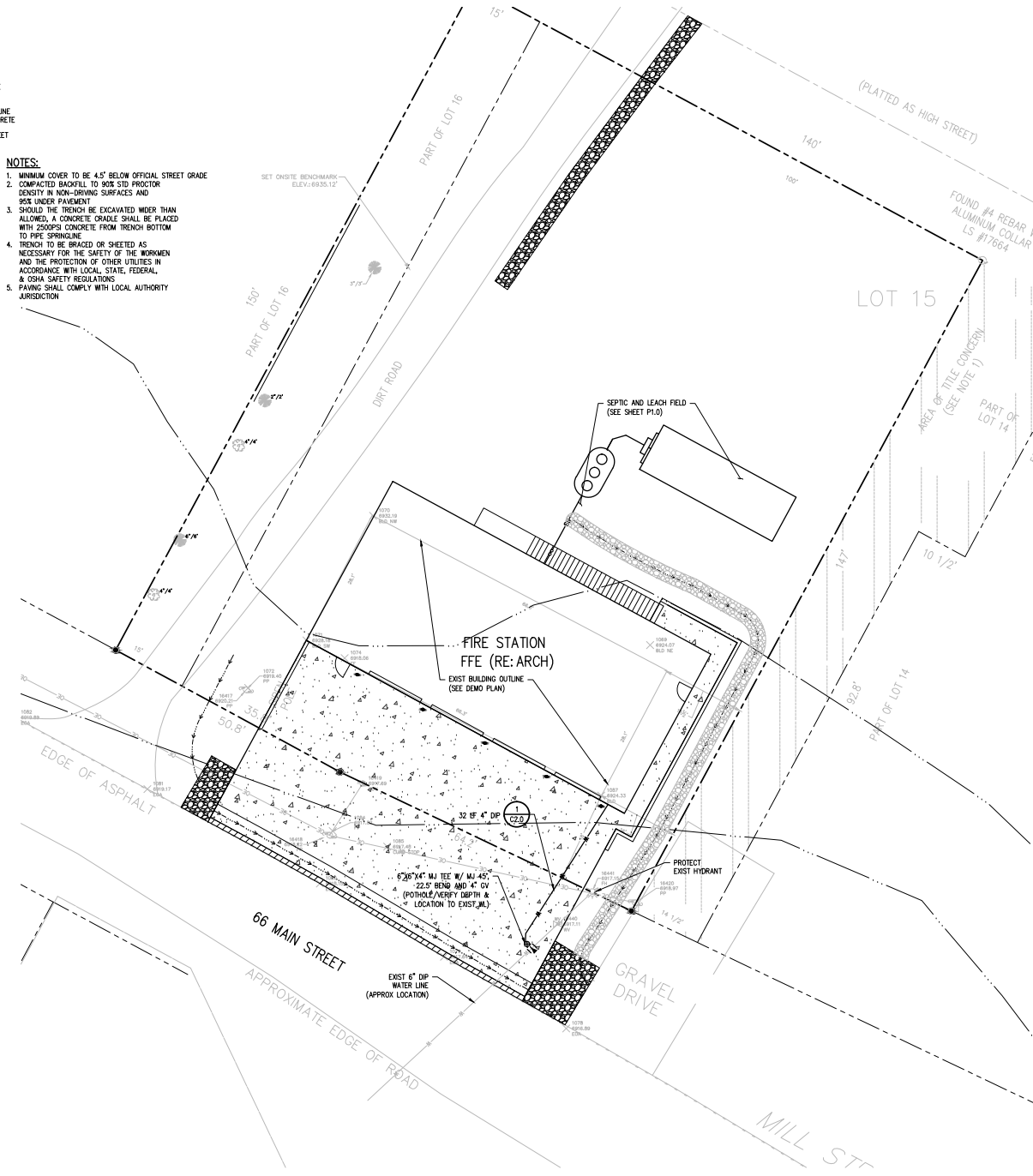
Plotted On: 7/29/14

UTILITY PLAN



**NOTES:**

1. MINIMUM COVER TO BE 4.5' BELOW OFFICIAL STREET GRADE
2. COMPACTED BACKFILL TO 90% STD PROCTOR DENSITY IN NON-DRIVING SURFACES AND 90% UNDER PAVEMENT
3. SHOULD THE TRENCH BE EXCAVATED WIDER THAN ALLOWED, A CONCRETE CRADLE SHALL BE PLACED WITH 250PSI CONCRETE FROM TRENCH BOTTOM TO PIPE SPRINGLINE
4. TRENCH TO BE BRACED OR SHEETED AS NECESSARY FOR THE SAFETY OF THE WORKMEN AND THE PROTECTION OF OTHER UTILITIES IN ACCORDANCE WITH LOCAL, STATE, FEDERAL, & OSHA SAFETY REGULATIONS
5. PAVING SHALL COMPLY WITH LOCAL AUTHORITY JURISDICTION







# Jamestown Volunteer Fire Station

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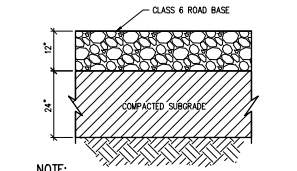
Revisions

-30 July 2014	FDN Permit
-3 July 2014	Demo Permit
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**C3.0**

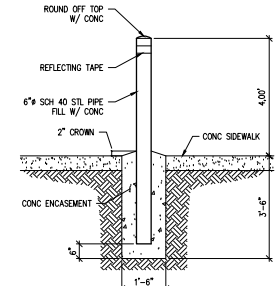
Plotted On: 7/29/14

HORIZONTAL CONTROL PLAN

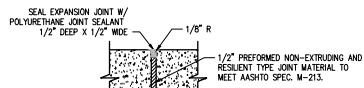


**NOTE:**  
 1. REFER TO SPECIFICATIONS FOR SUBGRADE PREPARATION

**GRANULAR DRIVE SECTION DETAIL (1)**  
 NTS

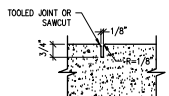


**BOLLARD DETAIL (2)**  
 NTS



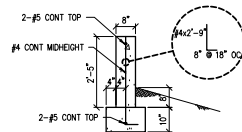
**NOTE:**  
 EXPANSION JOINTS EVERY 100' MAX AND WHEREVER SIDEWALK ABUTS EXISTING & PROPOSED CONCRETE STRUCTURES (TYP) - SEE PLAN

**EXPANSION JOINT DETAIL (3)**  
 NTS



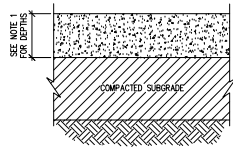
**NOTE:**  
 CONTRACTION JOINTS AT INTERVAL TO MATCH WIDTH OF SIDEWALK (TYP)(10.0' MAX)

**CONTRACTION JOINT DETAIL (4)**  
 NTS



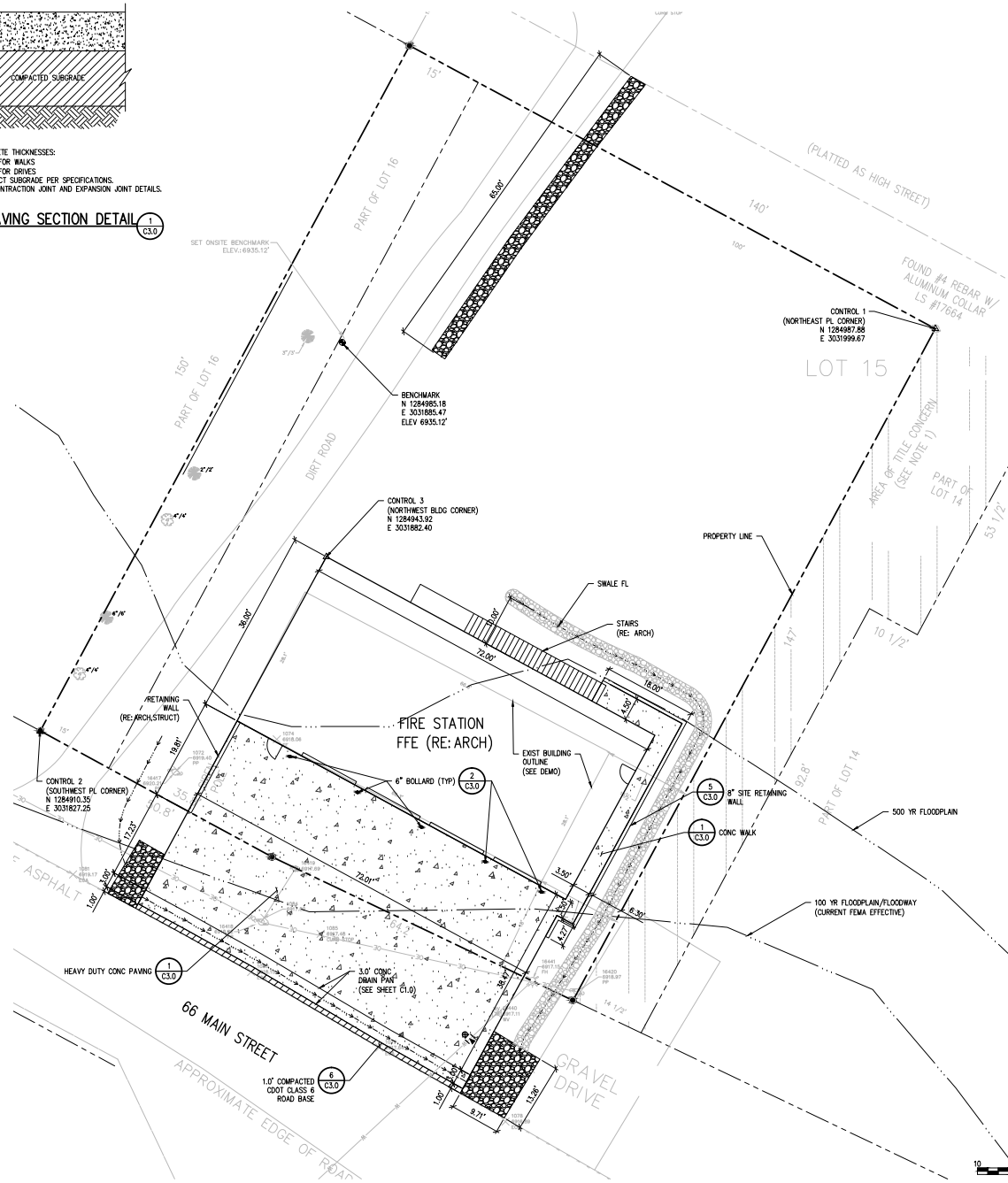
**NOTES:**  
 1. CONCRETE SHALL BE 3000 PSI MIN CONFORMING AND CONFORMING TO ASTM C-94-94  
 2. 3/4 CHAMFER ON ALL EXPOSED CORNERS  
 3. ALL REINF SHALL BE GRADE 60 STEEL CONFORMING TO ASTM 615

**RETAINING WALL DETAIL (5)**  
 NTS



**NOTES:**  
 1. CONCRETE THICKNESSES:  
 6" FOR WALKS  
 8" FOR DRIVES  
 2. COMPACT SUBGRADE PER SPECIFICATIONS.  
 3. SEE CONTRACTION JOINT AND EXPANSION JOINT DETAILS.

**CONCRETE PAVING SECTION DETAIL (1)**  
 NTS



LEGEND	
---	STORY - ABOVE FLOOR
---	STORY - BELOW FLOOR
---	BANITARY - ABOVE FLOOR
---	BANITARY - BELOW FLOOR
---	BANITARY - TO GREASE
---	CRUICT VENT
---	COMBINATION WASTE AND VENT
---	WET VENT
---	BANITARY VENT
---	DOMESTIC COLD WATER
---	DOMESTIC HOT WATER
---	DOM. HOT WATER, REGULATING
---	GAS
---	FIRE SPRINKLER
---	HOT WATER SUPPLY
---	HOT WATER RETURN
---	CHILLED WATER SUPPLY
---	CHILLED WATER RETURN
---	CONDENSATE
---	STEAM
---	RISER UP
---	RISER DOWN
---	BALL VALVE
---	BUTTERFLY VALVE
---	GATE VALVE
---	GAS COOK (GAS ONLY)
---	BALANCING COCK
---	CRUICT SETTER
---	CHECK VALVE
---	PRESSURE REDUCING VALVE
---	HOSE BIBB-BULL COCK
---	FLOOR DRAIN
---	FLOOR SINK
---	ROOF DRAIN
---	LINEN
---	FLEXIBLE CONNECTOR
---	THERMOMETER
---	PRESSURE GAUGE
---	STRAINER
---	FIRE DEPARTMENT CONNECTION
---	WATER METER
---	GAS METER
---	MECHANICAL EQUIPMENT
---	DETAIL NOTE
---	KITCHEN / MEDICAL EQUIPMENT
---	COMPRESSED AIR
---	VACUUM
---	OXYGEN
---	NITROGEN OXIDE
---	ENDING TO BE REPAIR
---	ENDING TO BE REPLACED
---	ENDING TO BE DEMOLISHED
---	NORMALLY CLOSED



COMcheck Software Version 3.9.4  
**Mechanical Compliance Certificate**

2012 IECC

Section 1: Project Information

Project Type: New Construction  
 Project Title: Jamestown Fire Station  
 Contribution File: 66 Main Street  
 Owner Agent: [Signature]  
 Designer/Contractor: Kevin O'Brien, Boulder Engineering, 1717 15th Street, Boulder, CO 80302, 303.444.6038

Additional Efficiency Package: Unspecified

Section 2: General Information

Building Location (by weather data): Boulder, Colorado  
 Climate Zone: 5b

Section 3: Mechanical Systems List

Quantity: System, Type & Description  
 1 Water Heater 1 Electric Storage Water Heater, Capacity: 40 gallons, Proposed Efficiency: 0.88 EF, Required Efficiency: 0.88 EF

Section 5: Compliance Statement

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed mechanical design has been designed to meet the 2012 IECC requirements in COMcheck Version 3.9.4 and to comply with the minimum energy code of the jurisdiction.

Gerald Novotny, P.E. [Signature] 7/25/14  
 Name Title Signature Date

Section 6: Post Construction Compliance Statement

- HVAC record drawings of the actual installation and performance data for each equipment provided to the owner within 90 days after system acceptance.
- HVAC O&M documents for all mechanical equipment and system provided to the owner within 90 days after system acceptance.
- Written HVAC balancing report provided to the owner.

The above post construction requirements have been completed.

Principal Mechanical Designer Name Signature Date

Project Title: Jamestown Fire Station Report date: 07/28/14  
 Date Name: 1717 15th Street Jamestown Fire Station IECC 4088L\_Pump\_01k Page 1 of 1

PLUMBING FIXTURE SCHEDULE			
KEY	DESCRIPTION	FITINGS/ACCESSORIES	MANUFACTURER/CATALOG #
HWC	ADA FLOOR MOUNTED TOILET, 1/8 GPF, VITREOUS CHINA, ELONGATED BOWL.	PROVIDE #832110 ELONGATED SEAT AND SUPPLY STOP	AMERICAN STANDARD CADET PRO 258A.024
LAV	ADA WALL MOUNTED SINK, VITREOUS CHINA, 4" OC HOLES FOR PLACE	INSULATED TAIL PIECE	AMERICAN STANDARD DELCYN DELTA 252B-HDP
SH	28"X20" STAINLESS STEEL SINK, SINGLE BOWL.	INSULATED TAIL PIECE	ROBERTS-HAMILTON CO. 18-0520 DELTA 442 D8T
SH	ADA 36"X36" 25 DVT, 125# SHOWER ENCLOSURE	DELTA RIGIDLIN SHOWER VALVE	LAECO 3463-876 DELTA 876320
EWH	ELECTRIC WATER HEATER, 30W, 40 GAL CAPACITY, 12 GPH @ 120F, R20H1 INSULATION, 27T/1	RET RELIEF, PC TO PROVIDE 27TY TO 24DY CONVERSION KIT # 8202871026, GC TO PROVIDE WATER HEATER	AO SMITH DEL-40
WU	WASHING MACHINE UNIT, 20 GA BOX, 1/8 GA PLATE	2" DRAIN ONLY	GUY GRAY 8202
PHB	FREEZE PROOF HOSE BIBB, METAL HANDLE	VACUUM BREAKER	WOODFORD MODEL 25
RPZ-1	REDUCED PRESSURE BACKFLOW PREVENTER	STRAINER, SHUTOFF VALVES, AIR GAP	WATTS CO8276, 8084G

NOTES: PC IS RESPONSIBLE FOR ALL ANCLLARY EQUIPMENT AND FITINGS (STOPS, FLEXIBLE TUBING, ESCU-CHEENS, ETC) NEEDED TO CONNECT FIXTURES

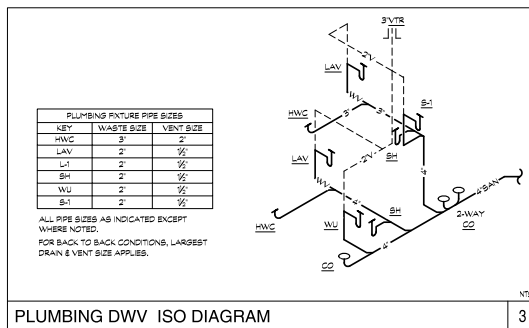
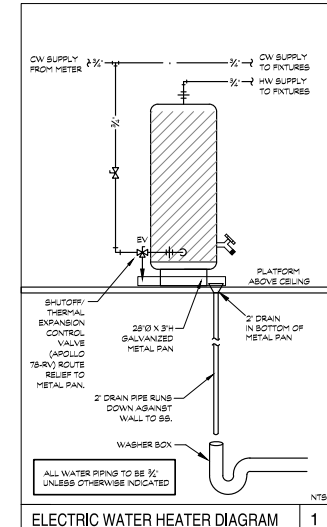
**WORKSHOP8**  
 architecture | planning | design

1720 15TH STREET  
 BOULDER CO 80302  
 WORKSHOP8.us 303 442 3700

Architect: Joseph Vigil  
 State Registration: 840723  
 Firm Registration: WORKSHOP8 INC.

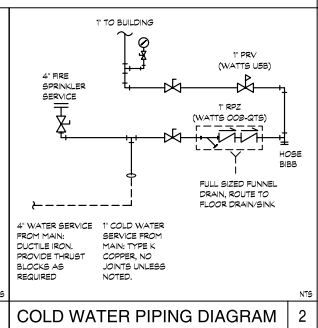
**boulder engineering**

plumbing, mechanical and electrical  
 1717 15th Street  
 Boulder, CO 80302  
 303.444.6038 phone  
 303.442.1172 fax  
 staff@boulderengineering.com



PLUMBING FIXTURE PIPE SIZES		
KEY	WASTE SIZE	VENT SIZE
HWC	3"	3"
LAV	2"	1 1/2"
L-1	2"	1 1/2"
SH	2"	1 1/2"
WU	2"	1 1/2"
SH	2"	1 1/2"

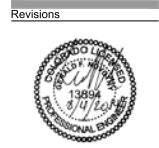
ALL PIPE SIZES AS INDICATED EXCEPT WHERE NOTED.  
 FOR BACK TO BACK CONDITIONS, LARGEST DRAIN & VENT SIZE APPLIES.



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 Jamestown CO 80455

Revisions  
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 -30 July 2014 FDN Permit  
 -3 July 2014 Demo Permit  
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**P3.1**  
 Printed On: 7/28/14  
 Plumbing Schedules



4. Return air plenums, or other areas designed as air handling plenums, shall be installed to a flame rating of 25/30 according to ASTM E84, evaluated by spicing, insulation or other approved method.  
a. Telling shall be as manufactured by Wirsbo or equivalent.

**2.00 SLOPE AND WASTE PIPING**  
A. Sewer, vents, and vent piping shall be schedule 40-CPVC with solvent joints, except as noted below. Solvent shall be of contrasting color.  
1. Sewer vents, clean roof with stainless steel 40-CPVC connectors shall be used in return air plenums and other areas designed as air handling plenums, and where specifically required by local code.  
B. Soil and waste piping below grade shall be cast iron ductile iron pipe with PVC SDR 35, installed in conformance with ASTM 3034 and utilizing push-on joints.

**2.01 PLUMBING FIXTURES AND EQUIPMENT**  
A. Provide plumbing fixtures as specified on the plans. Provide carriers, trim, tubs, carts, and accessories to the manufacturer's instructions and as required for complete installation. All fittings and connections (piping, connections, etc.) shall be brass, chrome-plated brass, viton, or other.  
B. Provide carriers for wall hung or recessed fixtures with pipe closets, closets, vents, sinks, etc. The carriers shall be designed to fit in the wall without interference, and shall transmit the load to the floor. Fixtures will not be supported by the wall structure unless specifically indicated.

**2.02 CAPPING**  
A. Above grade in accessible locations, gas piping shall be schedule 40, black iron pipe with threaded fittings. Fittings shall be made of malleable iron. Gas piping run in return plenums, when allowed by local code, shall have welded joints.  
B. Regulations shall be observed, or equivalent, of size and capacity as required.

**2.03 GAS WATER HEATERS (FIELD CONNECTIONS)**  
A. Water heaters shall be specified on the plans. Heaters shall be approved and listed by the American Gas Association as wall-mounted, vented water heaters. The tank shall be labeled with safety, vented, gas-fired, from installation to conform to ANSI/RAE 90.1-1993. The heater shall be rated for 150 PSI and shall have a five-year warranty. The power burner shall be sealed combustion, vented with rigid metal duct. The controls shall be electronic microprocessor based with digital display and shall include high-limit control and safety shut-off. The heater shall include two (2) temperature modes and a pressure and temperature relief valve. The heater will be furnished with integral vent pipes. Where required by local code, provide ASME certification.  
B. The water heaters shall be manufactured by A.O. Smith, State, Paloma, Road, or Bradford-White.

**2.04 INSTANTANEOUS GAS WATER HEATER**  
A. Instant water heater per manufacturer's instructions.  
B. Route the PT relief valve field to approved receptor and discharge per code.  
C. Install the condensate drain per manufacturer's instructions, route full sized discharge to receptacle.  
D. The gas and combustion air ducts shall be provided by the mechanical contractor, unless otherwise noted. Where not shown, combustion water heater shall be provided by the Mechanical Contractor to install Category III (Heat Exchanger) vent to the duct and combustion air piping. This piping will be the size of the ductwork recommended by the manufacturer, and use factory recommended discharge/trapping fittings as shown on the plans.

**2.05 ELECTRIC WATER HEATER**  
A. Water heaters shall be specified on the plans. Heaters shall be U.L. listed. The tank shall be a vented, electric, welded steel, gas-fired, installed to conform to ANSI/RAE 90.1-1993. The heater shall be rated for 150 PSI and shall have a five-year warranty. The heater shall use two immersion heating elements. The controls shall be completely factory assembled and shall include immersion thermostat and high-temperature shut-off. The heater shall include two (2) temperature modes and a pressure and temperature relief valve. The heater will be furnished with integral vent pipes. Where required by local code, provide ASME certification.  
B. The water heaters shall be manufactured by Brand, Ranco, A.O. Smith, Jackson, or American Appliance.

**2.06 DOMESTIC WATER SYSTEMS**  
A. Domestic DW cold water to the entire system may be drained. Provide manual air vents at high points in the system where air may be trapped. Provide traps for all fixtures and equipment. Provide a full size ball valve on each branch serving a hose bib.  
B. Provide vent or raised joints on connections as required to prevent noise or vibration of the piping. Provide floor traps at all fixtures, hose bibbs, wall valves, and domestic water-terminated fixtures. Run all piping on a war-slope of building insulation. Pipe insulation not considered fire protection. Provide water hammer arrestors where required. Location shall be accessible or provide access panel.

**2.07 SOIL AND WASTE PIPING**  
A. Lay piping to a minimum 1/8" per grade and shall cover will have smooth and uniform invert throughout its length.  
1. Verify elevations of existing sewer before starting work.  
B. Install a clean-out at the base of each stack, at the base of each interior water service conductor, at each change in direction, at intervals not over 50 feet between buildings, and every 100 feet exterior to building and wherever shown on the drawings or required by code. Make clean-outs same size as pipe service, except they need be larger than 4". Set clean-outs and vent stacks flush with floors and walls. Wall covers shall be round polished stainless steel with corrosion resistant securing screw (SOS) and 5/8" flange. Floor covers shall be flush, cast iron, ABS plug with Nibbeloy cover/boom 50600. Provide floor clamp at each floor in multi-story apartment stacks.  
C. The entire drain, vent and sewer, and sewer system shall be watertight and sloped, including sealing of floor drains and sinks, closet traps, etc.

**2.08 WASTE HEATER INSTALLATION**  
A. Install water heater per manufacturer's instructions. Provide 24 gauge, galvanized steel drain pan, piped with minimum 1/2" drain, piped to an approved receptor with indirect water connection per code.  
B. Route the PT relief valve field to approved receptor and discharge per code. Provide expansion device, min. or valve, as required by code, and allowed by the local jurisdiction.  
C. The gas and combustion air ducts shall be provided by the mechanical contractor, unless otherwise noted. Where solid combustion water heaters are used, the Plumbing Contractor shall install PVC, flue and combustion air ducts to the exterior of the building. Provide PVC drain from water heater and a minimum 1/2" drain, piped to an approved receptor with indirect water connection per code. Verify installation with manufacturer.  
**2.09 PLUMBING FIXTURES AND REMOVAL**  
A. Furnish and install a vacuum breaker at each hot and cold water service outlet to which a hose can be attached, including janitor's fixtures.  
B. Provide chrome-plated grid or flexible supports for toilets with stops, reducers, and escutcheons. Installate stops attached to handraked sinks with Tru-Seal guard or equivalent. Bag pipe covers are not allowed.  
C. Provide chrome-plated brass P-trap with slip fittings for all exposed drains. Install P-traps at handraked sinks with Tru-Seal guard or equivalent. Bag pipe covers are not allowed.  
D. Flush water handles, and flush tank handles, on handraked water closets shall be located on the wide side of the hull for convenient access and as required by code.  
E. Provide a flexible aluminum sheet for flushing around all shower drains, floor drains, floor drains, floor drains, etc. except for floor drains. The membrane shall be a minimum 4.00 inch thick, made of chlorinated polyethylene, installed per manufacturer's instructions. The flashing membrane for roof drains, floor drains, etc. shall be minimum 2.52". The flashing membrane for shower pans service shall have "tigs" (no" flange) on the corners, extending the membrane up to 3/4" above the drain. The membrane shall be manufactured by Chlorobutyl or equivalent.  
F. Mount fixtures at the following heights above finished floor:  
1. Handraked: 14" to 15" top of bowl rim.  
Handraked: 18" to top of bowl rim.  
2. Lavatory: 31" to top of basin rim.  
3. Floor drain: 1" to top of drain rim.  
4. Floor drain: 1" to top of drain rim.  
5. Floor drain: 1" to top of drain rim.  
6. Wash Man: 12" to top of 1/2" x 1/2"

**2.10 GAS PIPING**  
A. Gas distribution system is based on both 2 PSI and 6" W.C. natural gas pressure except where noted on plans. Provide all gas-fired piping with gas pressure regulator or shut-off valves as required to operate at 900 ft. elevation. Provide a gas check and drip leg at each meter.  
B. Gas piping and roof shall be secured to a resistant polyethylene foam "Eco-Flex" Pipe-Trap.  
C. Piping exposed outside shall be painted with an exterior type latex paint which matches the adjacent roof or trim.

**2.11 APPLIANCE CONNECTION PIPING TO BE PERFORMED BY OWNER'S TRADES PERSONS**  
A. Appliance connection piping to be performed with one pipe access line, whichever is larger. Transition dimensions of all ducts and registers as close to appliance as possible where pipe cut for larger than

**2.00 STARTUP PROCEDURES**  
A. Follow manufacturer's recommended procedures in starting up the equipment; damage caused during start-up shall be repaired at an expense to the owner.

**2.01 INSTALLATION PROCEDURES**  
A. Install piping and equipment, drain, vent, parallel with walls and partitions. Connect piping with structure wherever practical. Provide drain valves at all low points, vents at all high points, to allow complete drainage.  
B. Material and methods per ASME, ASTM, ASA, AWS, and National Plumbing Code Handbook.  
C. Provide systems in finished areas with a test device, or test of equipment. Install each union or flange in place for the removal of parts and equipment for inspection or cleaning, without disconnecting piping, except unions and valves.  
D. Piping on the roof will be supported above the roof on roof pads. The pads shall be approximately "Wide by 4" high by the length as required. They shall be made of recycled timber, rated for 3000' loading each. The pads will have galvanized steel "C" channel attached to the tops, which can accommodate pipe clamps to secure the piping. This configuration of shall hold piping pads to be required to include roof loading supports a frame to allow the removal of parts and equipment for inspection or cleaning, without disconnecting piping, except unions and valves. The pads are C-series manufactured by Cooper Tube, Etnco, or approved equivalent.  
E. Support piping and equipment from the structure to prevent sagging, pooling, swaying, and vibrations, and arranged to provide for expansion and contraction. Brackets, clamps, and hangers shall be tested, except copper hangers will be used with copper piping. Hangers supporting shoring equipment shall be provided with spring unions. Chain, perforated iron or wire hangers are not permitted. Hangers will be of type acceptable to the Engineer, and shall have a capacity and spacing as required by code.

**2.11 HANGERS AND SUPPORTS**  
A. Support piping and equipment from the structure to prevent sagging, pooling, swaying, and vibrations, and arranged to provide for expansion and contraction. Brackets, clamps, and hangers shall be tested, except copper hangers will be used with copper piping. Hangers supporting shoring equipment shall be provided with spring unions. Chain, perforated iron or wire hangers are not permitted. Hangers will be of type acceptable to the Engineer, and shall have a capacity and spacing as required by code.

**2.12 SLEEVES AND FLANGES**  
A. Provide sleeves and flanges for all mechanical piping. The contractor shall be responsible for the cost of cutting and providing rigging for piping where sleeves and inserts were not installed or where incorrectly located. Sleeves/sleeve compound may be used to seal openings in non-rated construction to be continuous throughout the length.  
B. Drill holes as required for the installation of hangers required for the mechanical work.  
C. Where sleeves are placed in exterior walls below grade, the space between the pipe or conduit and the sleeves shall be made completely water-tight.  
D. Seal all piping passing through fire-rated construction with approved material to maintain and/or fire-rated integrity with a U.L. listed assembly comparable with the seal or floor assembly being penetrated.

**2.13 PIPING TESTS**  
A. All piping systems shall be tested and witnessed by the Owner prior to commencement. Proper protection and safety shall be provided for all piping systems. The piping shall be tested with water under test conditions lasting for 24 hours. Domestic water and hydronic piping shall be tested at 150 PSIG, natural gas piping tested at 100 PSIG, and DW piping tested at 150 PSIG. The test shall be held for one hour without loss of pressure.  
**2.14 CLEANING AND SANITIZATION**  
A. After testing, water piping systems shall be filled, operated for a sufficient length of time to completely remove all sediment and debris.  
B. Sanitize the domestic hot and cold water piping in accordance with the local health authority standards. Flush the systems with clean water for the following time:  
1. Operating manual and hand pumps for each piece of equipment.  
2. Preventive maintenance schedule for lubricating and checking each piece of equipment.  
3. Insulation on who shall be for test service during the warranty period.

**2.15 PERMITS**  
A. The contractor shall pay for all fees, taxes, secure permits, notices, and inspections required by the project.

**1.11 TRADES SERVICES**  
A. Provide temporary water service for construction, as required by the General Contractor.

**1.12 COORDINATION**  
A. Coordinate service and equipment locations with the Architectural Plans and work of other trades. Locate on horizontal and vertical lines to avoid interference and provide function use of other trades.  
B. Electrical work performed by the contractor will conform to the standards of Division 26.28. Mechanical equipment systems and controls shall be furnished, not to exceed Division 26.28. Mechanical equipment systems shall be furnished, not to exceed Division 21.23 EC – Division 36.28

**1.13 PROJECT SITE CONDITIONS**  
A. Coordinate service and equipment locations with the Architectural Plans and work of other trades. Locate on horizontal and vertical lines to avoid interference and provide function use of other trades.  
B. Electrical work performed by the contractor will conform to the standards of Division 26.28. Mechanical equipment systems and controls shall be furnished, not to exceed Division 21.23 EC – Division 36.28

**1.14 ASBESTOS ABATEMENT**  
A. Verify asbestos testing and abatement procedures with the Architectural Plans and work of other trades. Locate on horizontal and vertical lines to avoid interference and provide function use of other trades.  
B. Electrical work performed by the contractor will conform to the standards of Division 26.28. Mechanical equipment systems and controls shall be furnished, not to exceed Division 21.23 EC – Division 36.28

**1.15 DELIVERY, STORAGE, HANDLING**  
A. Provide necessary handling and stacking equipment. Protect the materials of this Division before, during, and after installation.

**1.16 ASBESTOS ABATEMENT**  
A. Verify asbestos testing and abatement procedures with the Architectural Plans and work of other trades. Locate on horizontal and vertical lines to avoid interference and provide function use of other trades.  
B. Electrical work performed by the contractor will conform to the standards of Division 26.28. Mechanical equipment systems and controls shall be furnished, not to exceed Division 21.23 EC – Division 36.28

**1.17 PRODUCT HANDLING AND CLEAN UP**  
A. Equipment shall be left clean and undamaged, to the satisfaction of the Owner. The General Conditions take precedence.

**1.18 TESTING AND REPAIRING**  
A. The contractor shall be responsible for all testing, drilling, welding, and repair required for the portion of the work to be installed by the contractor. The General Conditions take precedence.

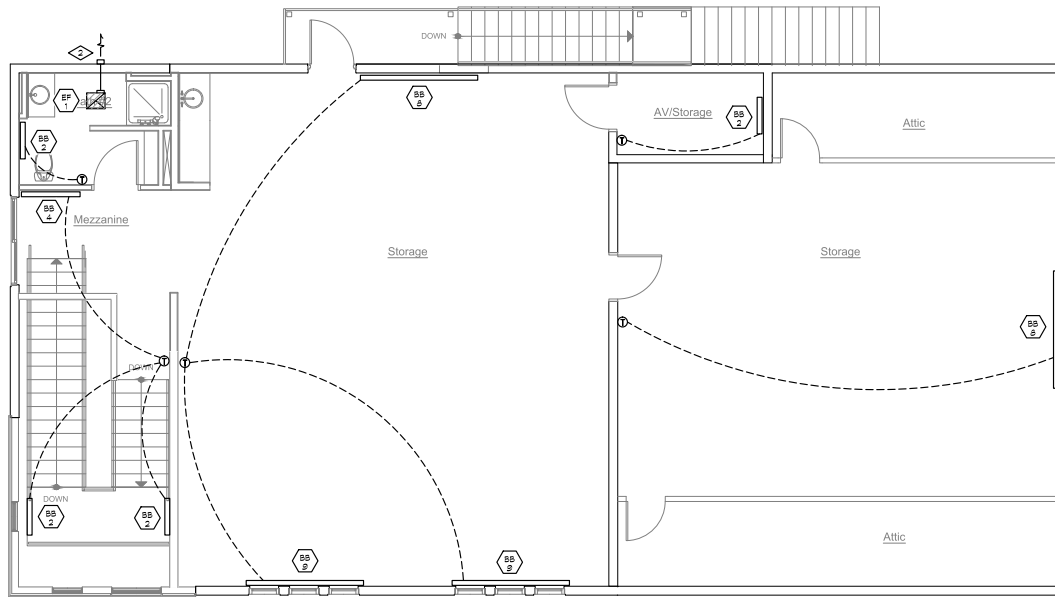
**1.19 OPERATING AND MAINTENANCE DATA**  
A. Provide operating and maintenance instructions (four copies) required for the portion of all mechanical systems. Bind the entire instructions in a notebook. The General Conditions take precedence. This includes:  
1. Operating manual and hand pumps for each piece of equipment.  
2. Preventive maintenance schedule for lubricating and checking each piece of equipment.  
3. Insulation on who shall be for test service during the warranty period.

**SECTION 22 04 00 - PLUMBING INSULATION**  
1.01 QUALITY ASSURANCE  
A. All insulation shall have a composite rating (insulation, jacket and adhesive) not exceeding flame spread 25 and smoke developed 10.  
2.01 PIPE INSULATION PIPING ABOVE GRADE  
A. Piping shall be insulated with rigid fiberglass insulation. The insulation shall be covered with all purpose jacket, solid with pressure sensitive paper. Insulation shall have a factor of 24 to 25 7/8" minimum thickness as follows:  
Pipes:  
Drain, cold piping 1 1/2" - 1 1/2" - 1 1/2"  
Hot, hot water piping 1 1/2" - 1 1/2" - 1 1/2"  
C. Fittings shall be insulated using a one-piece PVC fitting cover; except for exterior air terminals where they will be aluminum. Insulation used with fittings shall be thickness of adjacent pipe diameter.  
D. Insulation shall be Johns-Manville "Moldex-LA-1" with "Zenair" fittings or equivalent by Owens-Corning, Armstrong, Celanese or Beal.  
E. Exterior piping insulation will be covered with aluminum jacket, including all fittings, valves, etc. Jacket and insulation will be sealed weather-tight and installed per manufacturer's instructions. Where exposed to physical damage, exterior piping insulation will be covered with aluminum jacket, including all fittings, valves, etc. Jacket and insulation will be sealed weather-tight and installed per manufacturer's instructions.  
2.02 PIPE INSULATION PIPING BELOW GRADE  
A. Insulation shall be closed-cell, chloroprene pipe insulation having a conductivity of 0.27 in./ft. means, with thickness as follows:  
Pipes:  
Drain, cold piping 1 1/2" - 1 1/2" - 1 1/2"  
Hot, hot water piping 1 1/2" - 1 1/2" - 1 1/2"  
B. Insulation shall be Armaflex "Armaflex", or equivalent by Johns-Manville, Owens-Corning.  
C. Exterior piping insulation will be painted with a white solvent based alkali/fly/Armaflex. All air equipment, including all fittings, valves, etc. Jacket and insulation will be sealed weather-tight and installed per manufacturer's instructions. Where exposed to physical damage, exterior piping insulation will be covered with aluminum jacket, including all fittings, valves, etc. Jacket and insulation will be sealed weather-tight and installed per manufacturer's instructions.  
3.01 PERMIT REQUIREMENTS  
A. Insulation shall be tested upon installation per code. Joint parts shall be sealed with manufacturer's adhesive. Where fill items must be installed, seal the joints with manufacturer's adhesive. Fittings shall be insulated with exterior pipe or insulation according to manufacturer's instructions, or insulated with manufacturer's instructions.  
B. Provide wood blocks and metal hanger blocks at support structures on horizontal pipe runs. Insulation will not be interrupted by supports, etc.

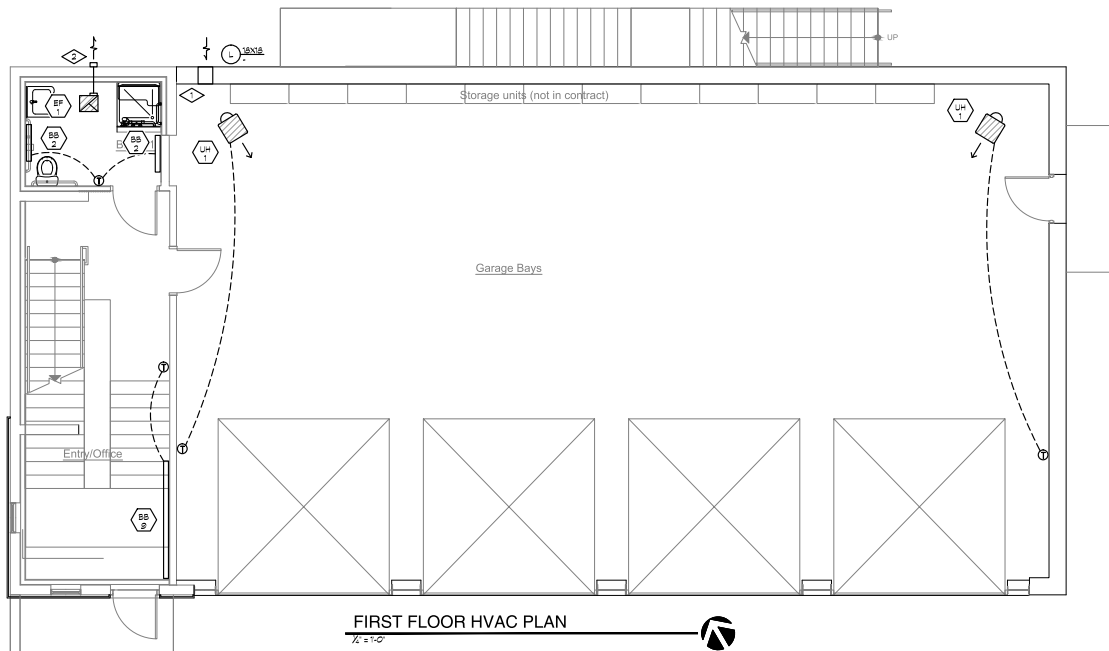
**SECTION 22 10 00 - PLUMBING**  
1.01 WASTE SERVICE  
A. Connect with local authorities to provide waste service. Provide metal trim, meter valves, vents, RPZ valves, PRV valves, etc. as provided by manufacturer. Connect to a point 5' from building. Coordinate exact point of connection with contractor before bidding.  
1.02 SANITARY SEWER CONNECTION  
A. Connect with local authorities to connect to sewer main as required. Connect to a point 5' from building. Coordinate exact point of connection with contractor before bidding.  
1.03 DOMESTIC WATER SYSTEM PIPING  
A. Domestic cold, hot, and recirculating hot water piping may be either copper, CPVC or PEK, as noted below:  
1. Copper piping  
a. Above grade piping shall be Type L, hard-drawn copper tubing with wrought copper fittings. Solder shall be lead-free.  
b. Below grade piping shall be Type K, soft-drawn copper tubing with fittings only where specifically indicated by the architect. Where not specifically indicated, the fittings shall be wrought copper. Solder shall be 95% tin/antimony, except underground, where it will be silver solder.  
2. CPVC piping  
a. Above grade piping shall be schedule 40-CPVC with solvent joints and shall be manufactured according to ASTM D 1784 and ASTM 2846. Solder shall be of contrasting color.  
b. Solder to be the proper size and amount of valves. Solder to be properly secured to wall.  
3. PEK tubing  
a. Tubing shall be cross-linked polyethylene using the Engel method of cross-linking. The tubing shall be rated for 80PSI @ 200' and shall be manufactured according to ASTM F 876 and ASTM F 877. b. Connections shall be made with solvent adhesive, "Weld-on" or equivalent. Manifolds may be copper, brass, or plastic, with bonding compound.  
c. Solder to be the proper size and amount of valves. Solder to be properly secured to wall.

local inspection authority. The Contractor to verify the governance of the following Codes, including any local amendments and equipment codes used, the following: National Fire Protection Association:  
1. Building Code: 2009 International Building Code  
2. Plumbing Code: 2009 International Plumbing Code  
3. Mechanical Code: 2009 International Mechanical Code  
4. Fire Code: 2009 International Fire Code  
5. Gas Code: 2009 International Gas Code  
6. Energy Code: 2009 International Energy Code  
7. Electrical Code: 2011 National Electrical Code  
**1.03 EQUIPMENT AND MATERIALS LIST**  
A. Equipment and materials shall be new, U.L. listed for the use intended, and free from damage or defect. They shall comply with the latest industry standards.  
**1.04 CONTRACT DRAWINGS**  
A. Illustrate the general design and system of performance required. All dimensions and locations shall be taken from the Architectural Drawings. Consult with Architectural plans and locate all existing equipment where indicated on reflected ceiling plans.  
**1.05 SHOP DRAWINGS**  
A. Submit product data and shop drawings as required by the Architect for the following:  
1. Insulation  
2. Valves  
3. Plumbing fixtures and appurtenances  
B. Quality of specific equipment is established by manufacturer's catalog number. Alterations caused by any substitutions shall be accomplished at an additional expense to the Owner.  
C. Manufacturers not listed may submit for acceptance as "approved equivalent." Request for an "equivalent" means "approved equivalent." Four copies of each submittal must be received by the Engineer seven (7) working days prior to bid date.  
**1.06 WARRANTY**  
A. The Contractor shall be responsible for the successful operation of mechanical systems, equipment, and materials installed under this Contract for a period of one year from the date of final acceptance. Defective equipment or materials shall be replaced or repaired at an expense to the Owner. Provide four complete sets of test and maintenance calls special at equal intervals during the warranty period.  
**1.07 PRODUCT HANDLING AND CLEAN UP**  
A. Equipment shall be left clean and undamaged, to the satisfaction of the Owner. The General Conditions take precedence.  
**1.08 TESTING AND REPAIRING**  
A. The contractor shall be responsible for all testing, drilling, welding, and repair required for the portion of the work to be installed by the contractor. The General Conditions take precedence.  
**1.09 OPERATING AND MAINTENANCE DATA**  
A. Provide operating and maintenance instructions (four copies) required for the portion of all mechanical systems. Bind the entire instructions in a notebook. The General Conditions take precedence. This includes:  
1. Operating manual and hand pumps for each piece of equipment.  
2. Preventive maintenance schedule for lubricating and checking each piece of equipment.  
3. Insulation on who shall be for test service during the warranty period.  
**1.10 PERMITS**  
A. The contractor shall pay for all fees, taxes, secure permits, notices, and inspections required by the project.  
**1.11 TRADE SERVICES**  
A. Provide temporary water service for construction, as required by the General Contractor.  
**1.12 COORDINATION**  
A. Coordinate service and equipment locations with the Architectural Plans and work of other trades. Locate on horizontal and vertical lines to avoid interference and provide function use of other trades.  
B. Electrical work performed by the contractor will conform to the standards of Division 26.28. Mechanical equipment systems and controls shall be furnished, not to exceed Division 21.23 EC – Division 36.28  
**1.13 PROJECT SITE CONDITIONS**  
A. Coordinate service and equipment locations with the Architectural Plans and work of other trades. Locate on horizontal and vertical lines to avoid interference and provide function use of other trades.  
B. Electrical work performed by the contractor will conform to the standards of Division 26.28. Mechanical equipment systems and controls shall be furnished, not to exceed Division 21.23 EC – Division 36.28  
**1.14 ASBESTOS ABATEMENT**  
A. Verify asbestos testing and abatement procedures with the Architectural Plans and work of other trades. Locate on horizontal and vertical lines to avoid interference and provide function use of other trades.  
B. Electrical work performed by the contractor will conform to the standards of Division 26.28. Mechanical equipment systems and controls shall be furnished, not to exceed Division 21.23 EC – Division 36.28  
**1.15 DELIVERY, STORAGE, HANDLING**  
A. Provide necessary handling and stacking equipment. Protect the materials of this Division before, during, and after installation.  
**1.16 ASBESTOS ABATEMENT**  
A. Verify asbestos testing and abatement procedures with the Architectural Plans and work of other trades. Locate on horizontal and vertical lines to avoid interference and provide function use of other trades.  
B. Electrical work performed by the contractor will conform to the standards of Division 26.28. Mechanical equipment systems and controls shall be furnished, not to exceed Division 21.23 EC – Division 36.28  
**1.17 PRODUCT HANDLING AND CLEAN UP**  
A. Equipment shall be left clean and undamaged, to the satisfaction of the Owner. The General Conditions take precedence.  
**1.18 TESTING AND REPAIRING**  
A. The contractor shall be responsible for all testing, drilling, welding, and repair required for the portion of the work to be installed by the contractor. The General Conditions take precedence.  
**1.19 OPERATING AND MAINTENANCE DATA**  
A. Provide operating and maintenance instructions (four copies) required for the portion of all mechanical systems. Bind the entire instructions in a notebook. The General Conditions take precedence. This includes:  
1. Operating manual and hand pumps for each piece of equipment.  
2. Preventive maintenance schedule for lubricating and checking each piece of equipment.  
3. Insulation on who shall be for test service during the warranty period.  
**1.20 SUBMITTALS**  
A. Submit shop drawings showing proposed layout of Fire Protection System, showing actual equipment to be used, complete with such dimensions as are required to accurately install the system, draw to a minimum scale of 1/8" equals 1". Drawings shall be approved by Underwriters and local authority before submission to the Architect and Engineer for review.  
B. Shop drawings shall show all proposed routing of piping. Piping shall be installed to clear all other items of equipment and Architectural and mechanical components within the building. Show all details required to make a complete installation from the top drawings. After approval of drawings has been obtained, install the piping exactly as shown. Obtain approval from Architect/Engineer to make any changes from shop drawings.  
C. Shop drawings shall clearly show any piping that will not be considered in the building structure or approved substitution.  
**2.01 ACCEPTABLE MANUFACTURERS**  
A. Equipment shall be by General, Viking, Star, Reliance, Gable, Crocker-Standards, Central, Potter-Boomer, or approved substitution.  
**2.02 INTERIOR FIRE SERVICE PIPING**  
A. Fire pipe shall be schedule 80, black, seamless steel, ASTM A106, ASTM 53. Pipe 1/2" to 1 1/2" larger to meet the Architect and Engineer for review.  
B. Fire pipe shall be installed in a manner to make it possible to test and empty entire system, and as close to walls and ceilings as is consistent with good workmanship.  
C. Install piping conduct to low points in a manner to make it possible to test and empty entire system.  
D. Pipe and fittings shall be inspected for cleanliness and cleaned of all dirt and other foreign matter prior to being installed. All damaged pipe and fittings shall be replaced. Heads shall be cleaned, and system shall be ready for piping.  
E. Protect open pipe ends whenever work is suspended during construction, to prevent foreign bodies entering and lodging therein. Use one iron or malleable iron cap, or other methods as approved by the Architect.  
**2.03 VALVE IDENTIFICATION**  
A. Drain valves, test valves, and control valves shall be identified with a stamped metal tag indicating their use.  
**2.04 TESTING**  
A. A "Inspector's Test Certificate" shall be installed at the farthest and most remote location in the system with discharge piping to the exterior of the building.  
B. All piping and equipment shall be tested and proved tight under a hydrostatic pressure of 150% of the main pressure or 200 PSI, whichever is larger. The test shall be conducted for a six-hour continuous period, with not more than 1" drop of pressure below the test period in any part of the system. Any leaks found shall be repaired and the pressure test repeated.  
C. All tests shall be performed in the presence of the Architect or authorized representative of the Owner.  
**2.05 SPECIAL NOTES**  
A. A Plumbing system through with clear water to an automatic sprinkler system in operation.  
**2.06 SINKS AND CUPBOARDS**  
A. Provide a reversible cabinet with six upper, upper heads of each type and wall, cabinets shall be equipped with two upper, upper heads of each type. Cabinet shall be fabricated with galvanized steel and enamel on the top and right-hand and locked door. Two keys shall be provided.  
**SECTION 22 04 00 - PLUMBING**  
**SECTION 22 04 00 - PLUMBING WORK RESULTS FOR FIRE SUPPRESSION**  
**1.01 WORK INCLUDED**  
A. The work included in this division of the specifications includes furnishing all labor, materials, equipment, and services, including minor items, essential to complete and install the complete systems described by the Contract Documents and specified below. "Contract" refers to the Fire Sprinkler Contract. The general conditions of the specifications apply and are included in this part of this section.  
1. Fire sprinkler system  
**1.02 SEE SECTION 22 04 00 FOR BASIC MATERIALS AND METHODS**  
**SECTION 22 10 00 - FIRE SUPPRESSION SPINKLER SYSTEM**  
**1.01 WORK INCLUDED**  
A. Provide complete automatic fire protection systems, including but not limited to local piping, sprinkler heads, valves, hangers and supports, devices, for the department connections and accessories, the fire cabinets, valves. Entire installation shall be as required by the local authorities. Consult with local authorities to determine all local requirements before submitting a bid.  
1. The sprinkler systems shall be as follows: Wet system throughout.  
B. Secure and pay for all necessary permits and certificates of inspection, and present to Owner with the signed certificate of final inspection.  
C. Coordinate this work with all other trades so as to have a minimum of interference. INSTALLATION SHALL NOT BEGIN UNTIL ALL WORK IS INSTALLED OR WRITTEN AUTHORIZATION IS MADE BY THE OWNER.  
D. Acceptance of necessary cutting and patching for installation of piping, trenches and loads, and provide all cutting as directed by Architect. Where necessary to cut chases in walls, trenches walls as directed. After work is installed, patch holes to match original finish.  
E. The system design including pipe routing and location, configuration of branches and load connections, shall accommodate the installation of pipe racks in all areas which may or may not have a dropped ceiling.  
F. RELATED WORK: Basic materials and methods. Section 22.04.00  
**1.02 QUALITY ASSURANCE**  
A. Sprinkle equipment and installation to be approved by local authority.  
B. Provide a complete automatic fire protection system required. System shall be complete in all respects including but not limited to approvals, codes, ordinances, International Building Code, and NFA Volumes 2, Section 11 and NFPA Volumes 2, Section 11.  
C. The system shall be installed by one qualified and experienced design and installation of automatic sprinkler system in accordance with the requirements of the National Code of Fire Underwriters. Architects must require evidence to support the above qualifications and any design any proposed installer who cannot show such evidence.  
D. All materials and equipment used in the installation of the sprinkler system shall be as approved and in the Underwriters' Laboratories list of approved equipment and materials in the Factory Mutual Laboratories' list of approved equipment and the protection devices involving fire, hazard, and shall be the latest product of the manufacturer.  
**1.03 SUBMITTALS**  
A. Submit shop drawings showing proposed layout of Fire Protection System, showing actual equipment to be used, complete with such dimensions as are required to accurately install the system, draw to a minimum scale of 1/8" equals 1". Drawings shall be approved by Underwriters and local authority before submission to the Architect and Engineer for review.  
B. Shop drawings shall show all proposed routing of piping. Piping shall be installed to clear all other items of equipment and Architectural and mechanical components within the building. Show all details required to make a complete installation from the top drawings. After approval of drawings has been obtained, install the piping exactly as shown. Obtain approval from Architect/Engineer to make any changes from shop drawings.  
C. Shop drawings shall clearly show any piping that will not be considered in the building structure or approved substitution.  
**2.01 ACCEPTABLE MANUFACTURERS**  
A. Equipment shall be by General, Viking, Star, Reliance, Gable, Crocker-Standards, Central, Potter-Boomer, or approved substitution.  
**2.02 INTERIOR FIRE SERVICE PIPING**  
A. Fire pipe shall be schedule 80, black, seamless steel, ASTM A106, ASTM 53. Pipe 1/2" to 1 1/2" larger to meet the Architect and Engineer for review.  
B. Fire pipe shall be installed in a manner to make it possible to test and empty entire system, and as close to walls and ceilings as is consistent with good workmanship.  
C. Install piping conduct to low points in a manner to make it possible to test and empty entire system.  
D. Pipe and fittings shall be inspected for cleanliness and cleaned of all dirt and other foreign matter prior to being installed. All damaged pipe and fittings shall be replaced. Heads shall be cleaned, and system shall be ready for piping.  
E. Protect open pipe ends whenever work is suspended during construction, to prevent foreign bodies entering and lodging therein. Use one iron or malleable iron cap, or other methods as approved by the Architect.  
**2.03 VALVE IDENTIFICATION**  
A. Drain valves, test valves, and control valves shall be identified with a stamped metal tag indicating their use.  
**2.04 TESTING**  
A. A "Inspector's Test Certificate" shall be installed at the farthest and most remote location in the system with discharge piping to the exterior of the building.  
B. All piping and equipment shall be tested and proved tight under a hydrostatic pressure of 150% of the main pressure or 200 PSI, whichever is larger. The test shall be conducted for a six-hour continuous period, with not more than 1" drop of pressure below the test period in any part of the system. Any leaks found shall be repaired and the pressure test repeated.  
C. All tests shall be performed in the presence of the Architect or authorized representative of the Owner.  
**2.05 SPECIAL NOTES**  
A. A Plumbing system through with clear water to a piping machine automatic sprinkler system in operation.  
**2.06 SINKS AND CUPBOARDS**  
A. Provide a reversible cabinet with six upper, upper heads of each type and wall, cabinets shall be equipped with two upper, upper heads of each type. Cabinet shall be fabricated with galvanized steel and enamel on the top and right-hand and locked door. Two keys shall be provided.  
**SECTION 22 04 00 - PLUMBING WORK RESULTS FOR FIRE SUPPRESSION**  
**1.01 WORK INCLUDED**  
A. The work included in this division of the specifications includes furnishing all labor, materials, equipment, and services, including minor items, essential to complete and install the complete systems described by the Contract Documents and specified below. "Contract" refers to the Mechanical Contract. The general conditions of the specifications apply and are included in this part of this section.  
1. Gas piping system  
2. Domestic hot and cold water systems  
3. Interior sanitary sewer systems  
**1.02 CODES AND REGULATIONS**  
A. Comply with one and local codes, and utility company regulations. Final interpretations will be made by the

underground utilities. Restore existing paving, curbs, sod, bushes, etc. to match surroundings.  
**2.01 STARTUP PROCEDURES**  
A. Follow manufacturer's recommended procedures in starting up the equipment; damage caused during start-up shall be repaired at an expense to the owner.  
**2.01 INSTALLATION PROCEDURES**  
A. Install piping and equipment, drain, vent, parallel with walls and partitions. Connect piping with structure wherever practical. Provide drain valves at all low points, vents at all high points, to allow complete drainage.  
B. Material and methods per ASME, ASTM, ASA, AWS, and National Plumbing Code Handbook.  
C. Provide systems in finished areas with a test device, or test of equipment. Install each union or flange in place for the removal of parts and equipment for inspection or cleaning, without disconnecting piping, except unions and valves.  
D. Piping on the roof will be supported above the roof on roof pads. The pads shall be approximately "Wide by 4" high by the length as required. They shall be made of recycled timber, rated for 3000' loading each. The pads will have galvanized steel "C" channel attached to the tops, which can accommodate pipe clamps to secure the piping. This configuration of shall hold piping pads to be required to include roof loading supports a frame to allow the removal of parts and equipment for inspection or cleaning, without disconnecting piping, except unions and valves. The pads are C-series manufactured by Cooper Tube, Etnco, or approved equivalent.  
E. Support piping and equipment from the structure to prevent sagging, pooling, swaying, and vibrations, and arranged to provide for expansion and contraction. Brackets, clamps, and hangers shall be tested, except copper hangers will be used with copper piping. Hangers supporting shoring equipment shall be provided with spring unions. Chain, perforated iron or wire hangers are not permitted. Hangers will be of type acceptable to the Engineer, and shall have a capacity and spacing as required by code.  
**2.11 HANGERS AND SUPPORTS**  
A. Support piping and equipment from the structure to prevent sagging, pooling, swaying, and vibrations, and arranged to provide for expansion and contraction. Brackets, clamps, and hangers shall be tested, except copper hangers will be used with copper piping. Hangers supporting shoring equipment shall be provided with spring unions. Chain, perforated iron or wire hangers are not permitted. Hangers will be of type acceptable to the Engineer, and shall have a capacity and spacing as required by code.  
**2.12 SLEEVES AND FLANGES**  
A. Provide sleeves and flanges for all mechanical piping. The contractor shall be responsible for the cost of cutting and providing rigging for piping where sleeves and inserts were not installed or where incorrectly located. Sleeves/sleeve compound may be used to seal openings in non-rated construction to be continuous throughout the length.  
B. Drill holes as required for the installation of hangers required for the mechanical work.  
C. Where sleeves are placed in exterior walls below grade, the space between the pipe or conduit and the sleeves shall be made completely water-tight.  
D. Seal all piping passing through fire-rated construction with approved material to maintain and/or fire-rated integrity with a U.L. listed assembly comparable with the seal or floor assembly being penetrated.  
**2.13 PIPING TESTS**  
A. All piping systems shall be tested and witnessed by the Owner prior to commencement. Proper protection and safety shall be provided for all piping systems. The piping shall be tested with water under test conditions lasting for 24 hours. Domestic water and hydronic piping shall be tested at 150 PSIG, natural gas piping tested at 100 PSIG, and DW piping tested at 150 PSIG. The test shall be held for one hour without loss of pressure.  
**2.14 CLEANING AND SANITIZATION**  
A. After testing, water piping systems shall be filled, operated for a sufficient length of time to completely remove all sediment and debris.  
B. Sanitize the domestic hot and cold water piping in accordance with the local health authority standards. Flush the systems with clean water for the following time:  
1. Operating manual and hand pumps for each piece of equipment.  
2. Preventive maintenance schedule for lubricating and checking each piece of equipment.  
3. Insulation on who shall be for test service during the warranty period.  
**2.15 PERMITS**  
A. The contractor shall pay for all fees, taxes, secure permits, notices, and inspections required by the project.  
**1.11 TRADE SERVICES**  
A. Provide temporary water service for construction, as required by the General Contractor.  
**1.12 COORDINATION**  
A. Coordinate service and equipment locations with the Architectural Plans and work of other trades. Locate on horizontal and vertical lines to avoid interference and provide function use of other trades.  
B. Electrical work performed by the contractor will conform to the standards of Division 26.28. Mechanical equipment systems and controls shall be furnished, not to exceed Division 21.23 EC – Division 36.28  
**1.13 PROJECT SITE CONDITIONS**  
A. Coordinate service and equipment locations with the Architectural Plans and work of other trades. Locate on horizontal and vertical lines to avoid interference and provide function use of other trades.  
B. Electrical work performed by the contractor will conform to the standards of Division 26.28. Mechanical equipment systems and controls shall be furnished, not to exceed Division 21.23 EC – Division 36.28  
**1.14 ASBESTOS ABATEMENT**  
A. Verify asbestos testing and abatement procedures with the Architectural Plans and work of other trades. Locate on horizontal and vertical lines to avoid interference and provide function use of other trades.  
B. Electrical work performed by the contractor will conform to the standards of Division 26.28. Mechanical equipment systems and controls shall be furnished, not to exceed Division 21.23 EC – Division 36.28  
**1.15 DELIVERY, STORAGE, HANDLING**  
A. Provide necessary handling and stacking equipment. Protect the materials of this Division before, during, and after installation.  
**1.16 ASBESTOS ABATEMENT**  
A. Verify asbestos testing and abatement procedures with the Architectural Plans and work of other trades. Locate on horizontal and vertical lines to avoid interference and provide function use of other trades.  
B. Electrical work performed by the contractor will conform to the standards of Division 26.28. Mechanical equipment systems and controls shall be furnished, not to exceed Division 21.23 EC – Division 36.28  
**1.17 PRODUCT HANDLING AND CLEAN UP**  
A. Equipment shall be left clean and undamaged, to the satisfaction of the Owner. The General Conditions take precedence.  
**1.18 TESTING AND REPAIRING**  
A. The contractor shall be responsible for all testing, drilling, welding, and repair required for the portion of the work to be installed by the contractor. The General Conditions take precedence.  
**1.19 OPERATING AND MAINTENANCE DATA**  
A. Provide operating and maintenance instructions (four copies) required for the portion of all mechanical systems. Bind the entire instructions in a notebook. The General Conditions take precedence. This includes:  
1. Operating manual and hand pumps for each piece of equipment.  
2. Preventive maintenance schedule for lubricating and checking each piece of equipment.  
3. Insulation on who shall be for test service during the warranty period.  
**1.20 SUBMITTALS**  
A. Submit shop drawings showing proposed layout of Fire Protection System, showing actual equipment to be used, complete with such dimensions as are required to accurately install the system, draw to a minimum scale of 1/8" equals 1". Drawings shall be approved by Underwriters and local authority before submission to the Architect and Engineer for review.  
B. Shop drawings shall show all proposed routing of piping. Piping shall be installed to clear all other items of equipment and Architectural and mechanical components within the building. Show all details required to make a complete installation from the top drawings. After approval of drawings has been obtained, install the piping exactly as shown. Obtain approval from Architect/Engineer to make any changes from shop drawings.  
C. Shop drawings shall clearly show any piping that will not be considered in the building structure or approved substitution.  
**2.01 ACCEPTABLE MANUFACTURERS**  
A. Equipment shall be by General, Viking, Star, Reliance, Gable, Crocker-Standards, Central, Potter-Boomer, or approved substitution.  
**2.02 INTERIOR FIRE SERVICE PIPING**  
A. Fire pipe shall be schedule 80, black, seamless steel, ASTM A106, ASTM 53. Pipe 1/2" to 1 1/2" larger to meet the Architect and Engineer for review.  
B. Fire pipe shall be installed in a manner to make it possible to test and empty entire system, and as close to walls and ceilings as is consistent with good workmanship.  
C. Install piping conduct to low points in a manner to make it possible to test and empty entire system.  
D. Pipe and fittings shall be inspected for cleanliness and cleaned of all dirt and other foreign matter prior to being installed. All damaged pipe and fittings shall be replaced. Heads shall be cleaned, and system shall be ready for piping.  
E. Protect open pipe ends whenever work is suspended during construction, to prevent foreign bodies entering and lodging therein. Use one iron or malleable iron cap, or other methods as approved by the Architect.  
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A. Drain valves, test valves, and control valves shall be identified with a stamped metal tag indicating their use.  
**2.04 TESTING**  
A. A "Inspector's Test Certificate" shall be installed at the farthest and most remote location in the system with discharge piping to the exterior of the building.  
B. All piping and equipment shall be tested and proved tight under a hydrostatic pressure of 150% of the main pressure or 200 PSI, whichever is larger. The test shall be conducted for a six-hour continuous period, with not more than 1" drop of pressure below the test period in any part of the system. Any leaks found shall be repaired and the pressure test repeated.  
C. All tests shall be performed in the presence of the Architect or authorized representative of the Owner.  
**2.05 SPECIAL NOTES**  
A. A Plumbing system through with clear water to a piping machine automatic sprinkler



SECOND FLOOR HVAC PLAN  
1/2" = 1'-0"



FIRST FLOOR HVAC PLAN  
1/2" = 1'-0"

**GENERAL NOTES**

- A. VENTILATION IS ACHIEVED USING NATURAL VENTILATION (4% OF FLOOR AREA FOR OPERABLE DOORS AND WINDOWS)
  - STORAGE: 173 SQ FT; OPER. DOOR/ WIN AREA IS 69 SQ FT.
  - ENTRY: 551 SQ FT; OPER DOOR/ WIN AREA IS 22 SQ FT.
  - GARAGE: 2028 SQ FT; OPER DOOR/ WIN AREA IS 81 SQ FT.

**DETAIL NOTES THIS SHEET**

1. PROVIDE 18"X6 WALL LOUVER FOR VEHICLE EXHAUST SYSTEM BY OTHERS.
2. 6" EXHAUST DUCT: ROUTE TO WALL AND TERMINATE IN WALL CAP.

**WORKSHOP8**  
architecture | planning | design

1720 15TH STREET  
BOULDER CO 80302  
WORKSHOP8.us 303 442 3700

Architect Joseph Vigil  
State Registration #46702  
Firm Registration WORKSHOP8, Inc.

**boulder engineering**

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and electrical  
1717 15th Street  
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**Jamestown Volunteer Fire Station**

The Town of Jamestown  
66 Main Street  
Jamestown CO 80455

Revisions



No.	Date	Item
-04	August 2014	Permit
-30	July 2014	FDN Permit
-3	July 2014	Demo Permit

**M1.1**

Printed On: 7/29/14  
1st / 2nd Floor HVAC Plan

LEGEND	
	DUCT (INSIDE DIM. SIDE SHOWN INSIDE DIM. SIDE NOT SHOWN)
	SUPPLY DUCT (SECTION)
	RETURN DUCT (SECTION)
	EXHAUST DUCT (SECTION)
	ROUND DUCT, RIGID
	FLEXIBLE DUCT
	FLEXIBLE CONNECTOR
	TURNING VANES
	SUPPLY DIFFUSER (ARROWS INDICATE DISTRIBUTION)
	RETURN REGISTER - GRILLS
	FIRE DAMPER
	SMOKE AND FIRE DAMPER
	THERMOSTAT
	MANUAL BALANCING DAMPER
	MOTORIZED BALANCING DAMPER
	HWS - HOT WATER SUPPLY
	HWR - HOT WATER RETURN
	CWS - CHILLED WATER SUPPLY
	CWR - CHILLED WATER RETURN
	C - CONDENSATE
	S - STEAM
	GRILLE / REGISTER / DIFFUSER
	MECHANICAL EQUIPMENT
	DETAIL NOTE
	KITCHEN / MEDICAL EQUIPMENT
	SA - SUPPLY AIR
	OA - OUTSIDE AIR
	MA - MIXED AIR
	RA - RETURN AIR
	EA - EXHAUST AIR
	AD - ACCESS DOOR
	OBD - OPPOSED BLADE DAMPER
	RJS - ROUTE IN JOIST SPACE
	(E) - EXISTING TO REMAIN
	(ER) - EXISTING TO BE REPLACED
	(ED) - EXISTING TO BE DEMOLISHED
	DD - DUCT DETECTOR
	REL - REMOTE INDICATING LIGHT



**2012 IECC**

**Section 1: Project Information**

Project Type: New Construction  
 Project Title: Jamestown Fire Station  
 Construction Date: \_\_\_\_\_ Owner/Agent: \_\_\_\_\_ Designer/Contractor: Raven Olsen  
 66 Main Street, Jamestown, CO 80302 1717 15th Street, Boulder, CO 80302 303-444-6038

Additional Efficiency Package: Unspecified

**Section 2: General Information**

Building Location (for weather data): Boulder, Colorado  
 Climate Zone: 0b

**Section 3: Mechanical Systems List**

- Quantity System Type & Description
- 1 HVAC System 1 (Unzoned)  
 Heating: 2 each - Unit Heater (UH-1), Propane, Capacity = 88 kBtu/h  
 Proposed Efficiency = 82.00% EUI, Proposed Efficiency = 80.00% EUI  
 Fan System: Unit Heater Fan (Unzoned) - Compliance Status: unmet (HP method): Passes  
 Fan: FAN 1 Supply, Constant Volume, 1200 CFM, 0.1 motor horsepower hp
  - 1 HVAC System 2 (Single Zone)  
 Heating: 6 each - Radiant Heater (RH-2), Electric, Capacity = 2 kBtu/h  
 No minimum efficiency requirement applies  
 Fan System: None
  - 1 HVAC System 4 (Single Zone)  
 Heating: 3 each - Radiant Heater (RH-4), Electric, Capacity = 9 kBtu/h  
 No minimum efficiency requirement applies  
 Fan System: None
  - 1 HVAC System 5 (Single Zone)  
 Heating: 2 each - Radiant Heater (RH-5), Electric, Capacity = 7 kBtu/h  
 No minimum efficiency requirement applies  
 Fan System: None
  - 1 HVAC System 6 (Single Zone)  
 Heating: 1 each - Radiant Heater (RH-6), Electric, Capacity = 9 kBtu/h  
 No minimum efficiency requirement applies  
 Fan System: None

**Section 5: Compliance Statement**

Compliance Statement: The proposed mechanical design represented in this document is consistent with the building plans, specifications and other calculations submitted with this permit application. The proposed mechanical systems have been designed to meet the 2012 IECC requirements in COMcheck Version 3.9.4 and to comply with the applicable code requirements checked.

Gerald Novotny, P.E. *Gerald Novotny* 7/25/14  
 Project Title: Jamestown Fire Station Report Date: 08/01/14  
 Data Filename: 1717-15th-Jamestown-FireStationIECC-1408\_Mech\_03b Page 1 of 2

HVAC SCHEDULE										
KEY	UNIT TYPE	DESCRIPTION	HEATS	COOLS	FLOW	PRES.	WEIGHT	PWR	VOLT	MANUFACTURER/CAT. #
UH-1	UNIT HEATER	PROPANE-FIRED CEILING-HUNG UNIT HEATER, BUILT-IN REMOTE T-STAT	88 MBH		1000 CFM			3.9 A	120V	REYNOLDS LGAS 100
BB-2	ELECTRIC BASEBOARD	2'-0" STEEL BASEBOARD HEATER, WHITE	500 W				7.1 LB	4.2 A	120V	GMARD GMCK-2B2BW
BB-4	ELECTRIC BASEBOARD	4'-0" STEEL BASEBOARD HEATER, WHITE	1000 W				10 LB	8.3 A	120V	GMARD GMCK-2B4BW
BB-8	ELECTRIC BASEBOARD	8'-0" STEEL BASEBOARD HEATER, WHITE	2 KW				18 LB	8.3 A	240V	GMARD GMCK-2B8BW
BB-9	ELECTRIC BASEBOARD	8'-0" STEEL BASEBOARD HEATER, WHITE	2.5 KW				18 LB	10.4 A	240V	GMARD GMCK-2B8BW
EF-1	CEILING EXHAUST FAN	BACK DRAFT DAMPER, 100 SRH			75 CFM	0.25"		50 W	120V	GREENHECK SF-500 (RESTRIC)

NOTES: IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE ELECTRICAL CHANGES DUE TO EQUIPMENT SUBSTITUTIONS WITH EC.

GRILLE REGISTER DIFFUSER SCHEDULE				
KEY	DESCRIPTION	CEILING	ACCESSORIES	MANUFACTURER/CAT. #
L	WALL LOUVER, GALV STEEL 45 DEG STRAIGHT BLADE		1/2" BRDSCREEN	LOUVERS & DAMPERS P-21

NOTES: COORDINATE DIFFUSER LOCATIONS WITH LIGHTS AND OTHER CEILING ELEMENTS

**WORKSHOP8**  
 architecture | planning | design

1720 15TH STREET  
 BOULDER CO 80302  
 WORKSHOP8.us 303 442 3700

Architect: Joseph Vigil 940723  
 Site Registration: bouldereng.com  
 Firm Registration: WORKSHOP8 Inc.



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**Jamestown Volunteer Fire Station**

The Town of Jamestown  
 66 Main Street  
 Jamestown CO 80455

Revisions

No.	Date	Item
-04	August 2014	Permit
-30	July 2014	FDN Permit
-3	July 2014	Demo Permit



Permit No. \_\_\_\_\_  
 Date \_\_\_\_\_

**M3.1**  
 Printed On: 7/29/14  
 Mechanical Schedules

**DIVISION 23- HEATING, VENTILATING, AND AIR-CONDITIONING**

**SECTION 23 05 00 - COMMON WORK RESULTS FOR HVAC**

1.01 **WORK INCLUDED**  
A. The work included by this division of the specifications includes furnishing all labor, materials, equipment, and services, including minor items omitted but necessary to construct and install the complete systems described by the Contract Documents and specified below. "Contractor" refers to the Mechanical Contractor. The general conditions of the specifications apply and are included in this part of this section.

1. Heating, ventilating and air conditioning systems
2. Temperature control system
3. Kitchen supply and exhaust

1.02 **CODES AND REGULATIONS**  
A. Comply with state and local codes, and utility company regulations. Final interpretations will be made by the local inspection authority. The Contractor to verify the governance of the following Codes, including any local amendments and supplementary codes such as the Codes of the National Fire Protection Association:

1. Building Code: 2009 International Building Code
2. Plumbing Code: 2009 International Plumbing Code
3. Mechanical Code: 2009 International Mechanical Code
4. Fire Code: 2009 International Fire Code
5. Gas Code: 2009 International Fuel Gas Code
6. Energy Code: 2009 International Energy Code
7. Electrical Code: 2011 National Electrical Code

1.03 **EQUIPMENT AND MATERIALS STANDARDS**  
A. Equipment and materials shall be new, UL-listed for the use intended, and free from damage or defect. They shall comply with the latest industry standards.

1.04 **CONTRACT DRAWINGS**  
A. Illustrate the general design and extent of performance required. All dimensions and locations shall be taken from the Architectural drawings. Consult with Architectural plans and locate all ceiling equipment where indicated on reflected ceiling plans

1.05 **SHOP DRAWINGS**  
A. Submit product data and/or shop drawings as required by the Architect for the following:

1. Insulation
  2. Air handling equipment
  3. Grilles, registers, diffusers, louvers
  4. Temperature controls, systems, and components
- B. Quality of specific equipment is established by manufacturer's catalog number. Alterations caused by any substitution shall be acceptable at no additional expense to the Owner.
- C. Manufacturers not listed may submit for acceptance as an "approved equivalent." Requests for an "equivalent" means "approved equivalent." Four copies of such submittal must be received by the Engineer seven (7) working days prior to bid date.

1.06 **WARRANTY**  
A. The Contractor shall be responsible for the successful operation of mechanical systems, equipment, and materials installed under this Contract for a period of one year from the date of final acceptance. Defective equipment or materials shall be repaired or replaced at no expense to the Owner. Provide four complete service and maintenance calls spaced at equal intervals during the warranty period.

1.07 **PRODUCT HANDLING AND CLEAN UP**  
A. Equipment shall be kept clean and undamaged, to the satisfaction of the Owner. The General Conditions take precedence.

B. HVAC equipment shall not be used during construction as a means to heat or cool the space, unless specific approval is given by the owner. If such equipment is used, it must be completely cleaned and repaired as necessary. Cleaning involves replacing all filters, cleaning all coils and heat exchangers, inspecting fans, plenums, and ductwork and cleaning as directed by the owner.

1.08 **CUTTING AND REPAIRING**  
A. The contractor shall be responsible for all cutting, drilling, welding, and repair required for his portion of the work. Coordinate with the Architect. The General Conditions take precedence.

1.09 **OPERATING AND MAINTENANCE DATA**  
A. Provide the Owner with operating and maintenance instructions (four copies) required for operation of all mechanical systems. Bind the written instructions in a notebook. The General Conditions take precedence. The manuals shall include the following items:

1. Operating manual and spare parts list for each piece of equipment.
2. Preventive maintenance schedule for lubricating and checking each piece of equipment.
3. Instructions on who to call for service during the warranty period.

1.10 **PERMITS**  
A. The contractor shall pay for all fees, taxes, secure permits, licenses, and inspections required for the project.

1.11 **TEMPORARY SERVICES**  
A. Provide temporary water service for construction, as required by the General Contractor.

1.12 **COORDINATION**  
A. Coordinate outlet device and equipment locations with the Architectural Plans and work of other trades. Locate on horizontal and vertical lines to avoid interference and to provide functional use of all equipment. Verify electrical power characteristics before ordering equipment.  
B. Electrical work performed by this contractor will conform to the standards of Division 26-28. Mechanical equipment motors and controls shall be furnished, set in place, and wired according with the following schedule unless otherwise noted or specified. MC = Division 21-23 EC = Division 26-28

	Fan	Set	Power	Control
Item	By	By	By	By
Combustion starters	MC	EC	EC	MC
Equipment motors	MC	MC	EC	--
Motor starters & O.L. relays	MC	EC	EC	MC
Disconnect switches	EC	EC	EC	MC
Thermal overload heaters (1)	EC	EC	EC	MC
Variable Speed Drives	MC	EC	EC	MC
Control relays/transformers	MC	MC	EC	MC
Temperature control panels	MC	MC	EC	MC
Temp. Control conduct/wiring	MC	MC	--	MC
Actuator and solenoid wiring	MC	MC	--	MC
Fusiblelinks & pilot lights	MC	MC	--	MC
Rover thermostats	MC	MC	--	MC
Thermostats line voltage	EC	EC	EC	--

C. The general guideline for the division between control (by MC) wiring and power wiring (by EC) is that power wiring carries the current which energizes a motor, control wiring does not. Control wiring may be 120V, which would be the responsibility of the MC. Control motors are wired by the MC.  
D. Examine the site and become aware of existing conditions, utilities, and other issues affecting the satisfactory completion of the project.

1.13 **DELIVERY, STORAGE, HANDLING**  
A. Provide necessary handling and hoisting equipment. Protect the materials of this Division before, during, and after installation.

1.14 **AS-BUILT DRAWINGS**  
A. Keep a current set of "as-built" drawings on site. Upon completion of the work, furnish engineer with a reproducible prints showing the "as-built" installation.

1.15 **PROJECT/SITE CONDITIONS**  
A. Visit the site to become familiar with location and the various conditions affecting the work, including existing utilities.

1.16 **PLAN VERIFICATION**  
A. After completion of the bidding and selection process, prior to awarding the contract, the contractor must review and verify the contract documents in their entirety, including those of other trades. At this time, discrepancies, conflicts, omissions, etc in the contract documents must be documented. Alterations to the contract will be made at that time to include such items, as well other modifications which might be made by the Owner. After award of the contract, change orders caused by discrepancies, conflicts, omissions in the contract documents will not be allowed.

2.01 **EXPANSION JOINTS, GUIDES, AND ANCHORS**  
A. Provide expansion joints or loops, guides, and anchors in piping to allow for expansion and contractions. Expansion joints shall be bellows type.

2.02 **ELECTRICAL**  
A. Lugs: Lugs for wiring connections shall be rated for copper and aluminum, and shall have a minimum rating of 75C.

B. Electric motors shall be rated for the appropriate application: wet location (TEFC), submersible; explosion proof, VFDs, etc.

2.03 **ACCESS PANELS**  
A. The Mechanical Contractor shall furnish and General Contractor shall install access panels where required for access to equipment. The Mechanical Contractor shall include the cost of installation in his bid. Access panels shall be adequately sized, of a type approved by the Architect and shall be fire or smoke-rated as required.

3.01 **START-UP PROCEDURES**  
A. Follow manufacturer's recommended procedures in starting up the equipment; damage caused during start-up shall be replaced at no expense to the owner.

3.02 **HANGERS AND SUPPORTS**  
A. Support piping and equipment from the structure to prevent sagging, pecking, swaying, and vibrations, and arranged to provide for expansion and contraction. Brackets, clamps, and hangers shall be steel, except copper hangers will be used with copper piping. Hangers supporting vibrating equipment shall be provided with spring isolators. Chains, perforated iron or wire hangers are not permitted. Hangers will be of a type acceptable to the Engineer, and shall have a capacity and spacing as required by code.

3.03 **LOW EMITTING MATERIALS**  
A. All sealants & adhesives required for the installation of mechanical & plumbing system within the building envelope shall meet the requirements for low emitting materials as set for in the South Coast Air Quality Management District (SCAQMD) Rule #1168 (or LEED new construction requirements), which includes but is not limited to:  
1. Metal to Metal adhesive: VOC limit of 30g/L.  
2. Fiberglass adhesive: VOC limit of 80g/L.  
3. Multipurpose construction adhesive: VOC limit of 70 g/L.

**SECTION 23 09 00 - AUTOMATIC TEMPERATURE CONTROLS**

1.01 **SCOPE**  
A. Furnish, install, and place in operation a complete system of automatic temperature controls. The temperature control contractor may be the mechanical contractor or approved sub-contractor.  
B. Acceptable automatic temperature control equipment manufacturer's shall be Honeywell, Johnson Controls, or controls furnished by the specific equipment manufacturer.

C. The control system shall include all components and appurtenances necessary to provide a complete system. All wiring for automatic temperature controls, regardless of voltage shall be the responsibility of the ATC Contractor. 120V AC work shall be installed in conformance with requirements of Division 16. The Temperature Control Contractor shall coordinate all electrical work associated with his installation with the Electrical Contractor. Power wiring for all equipment, shall be the responsibility of the Electrical Contractor.

1.02 **QUALITY ASSURANCE**  
A. Upon completion of the work, instruct the building operating personnel and provide two (2) complete sets of operating and maintenance instruction booklets.  
B. Submit copies of complete temperature control diagrams with written "sequence of control" and factory-printed specification data sheets covering each control device proposed to be used, prior to installation of any equipment or part of system.

1.03 **SERVICE AND GUARANTEE**  
A. The Contractor shall guarantee the control system installed under this section of the specification to be free from defects in workmanship and material under normal use, and agrees to provide service for one (1) year after acceptance by the Engineer or of beneficial occupancy of the building. Any defects in workmanship or material during this time shall be corrected at no charge to the Owner.

2.01 **THERMOSTATS**  
A. HVAC unit thermostats shall be low-voltage, programmable, heating type. Units shall be Honeywell HVAC505 or equivalent. Built-in remote thermostats shall be utilized for propane unit heaters.

3.01 **SEQUENCE OF OPERATION**  
A. HVAC units shall each be controlled by a heating thermostat.  
B. Toilet exhaust fans shall be controlled manually.

**SECTION 23 30 00 - HVAC AIR DISTRIBUTION SYSTEMS**

1.01 **EXHAUST FAN CEILING**  
A. The ceiling exhaust fan shall have a steel housing with a galvanized or baked enamel finish. An automatic back-draft damper shall be located within the duct connector and have cushioned stops. The fan wheels shall be balanced centrifugal and shall operate at less than 1200 rpm. Fans shall bear the AMCA certified rating seal and the U.L.L. label. The entire fan, motor, and wheel assembly shall be removable without disturbing the housing. Fan motors shall be grounded and mounted on vibration isolators. Fans shall be Penn Zephyr, Greenbeck, Cook Gemini, or approved equivalent.

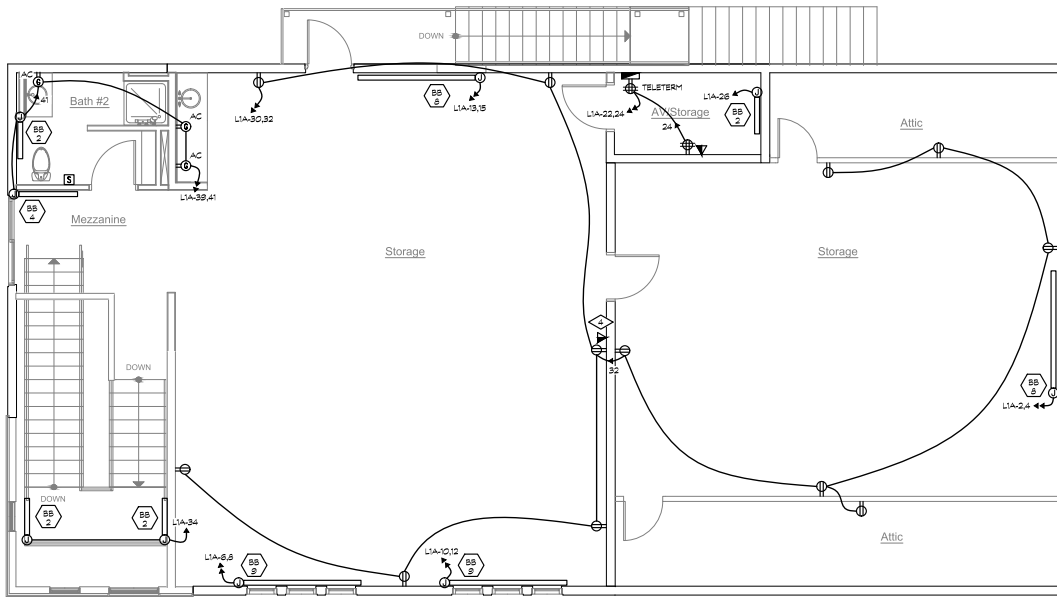
1.02 **AIR INTAKE AND DISCHARGE LOUVERS**  
A. Exterior stationary louvers shall be anodized aluminum galvanized steel 4" blades on 2-7/8" centers at 30 deg with return blinds. Louvers shall be weatherproof. Set in frame, secure, and sink into opening. Provide galvanized steel 1/2", 19-gauge wire mesh behind louver. Size per the plans.  
B. Approved manufacturer's shall be Louvers and Dampers, Aristem, Dowco, Ruskin, or Tins.

**Revisions**



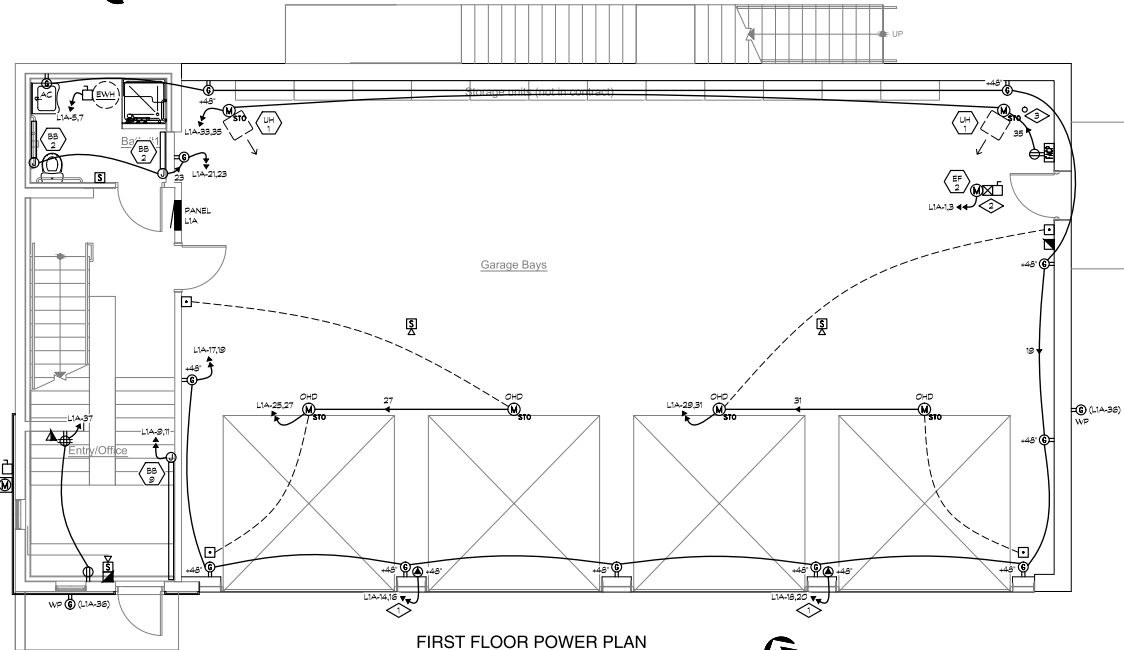
No.	Date	Item	Permit
-04	August 2014		Permit
-30	July 2014		FDN Permit
-3	July 2014		Demo Permit

**M4.1**  
Printed On: 7/29/14



SECOND FLOOR POWER PLAN

1/2" = 1'-0"



FIRST FLOOR POWER PLAN

1/2" = 1'-0"



DETAIL NOTES THIS SHEET

1. PROVIDE 240V RECEIPT FOR SHOP EQUIPMENT.
2. TALLPIPE EXHAUST FAN, E.G. TO COORDINATE EXACT LOCATION WITH DESIGN BUILD VENDOR.
3. PROVIDE TEMPERATURE SENSOR ADJACENT TO FIRE RISER. INTERLOCK WITH FACP AND TRIGGER AN ALARM STATE IF TEMPERATURE DROPS BELOW 35°F (ADJUSTABLE).
4. PROVIDE DATA BOX FOR TV. VERIFY WITH OWNER PRIOR TO ROUGH-IN.

**WORKSHOP8**  
architecture | planning | design

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WORKSHOP8.us 303 442 3700

Architect Joseph Vigil  
Site Registration #401021  
Firm Registration WORKSHOP8, Inc.

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**Jamestown Volunteer Fire Station**

The Town of Jamestown  
66 Main Street  
Jamestown CO 80445

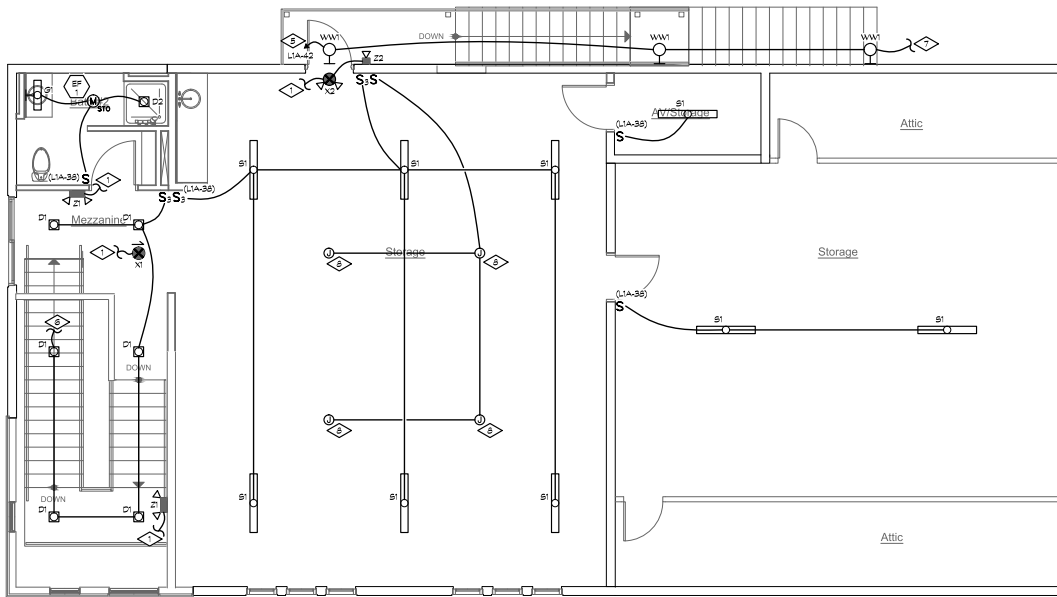
Revisions

No.	Date	Item
-04	August 2014	Permit
-30	July 2014	FDN Permit
-3	July 2014	Demo Permit

**E1.1**

Printed On: 7/28/14

1st & 2nd Floor Power Plan



SECOND FLOOR LIGHTING PLAN  
K=1'-0"

**LIGHTING CONTROL LEGEND**

⊕ EXTENDED RANGE (360°, 28 RADIUS) CEILING MOUNTED, LOW VOLTAGE, DUAL TECHNOLOGY, OCCUPANCY SENSOR, SENSOR SWITCH CH-PT1006 (OR EQUAL), W/ PFD-20 SINGLE POLE POWER PACK

Ⓢ ROOM OVERRIDE IN ROOMS W/ OCCUPANCY SENSORS

**OCCUPANCY SENSOR NOTES**

A. ALL LIGHTING CIRCUITS ARE TO BE WIRED VIA A MANUAL OVERRIDE TOGGLE SWITCH.

B. THE E.C. SHALL FIELD VERIFY AND COORDINATE ROUGH-IN LOCATIONS, MOUNTING HEIGHTS AND WIRING / CONNECTION REQUIREMENTS WITHIN EACH SPACE.

C. ALL OCCUPANCY SENSOR(S) SHALL BE EQUIPPED WITH ADJUSTABLE SENSITIVITY AND TIME-OUT SETTINGS.

D. MULTIPLE OCCUPANCY SENSORS IN ONE CONTROLLED SPACE OR ON ONE SWITCH LEG ARE WIRED IN PARALLEL WITH OTHER SENSORS AND / OR SWITCHES UNLESS NOTED OTHERWISE.

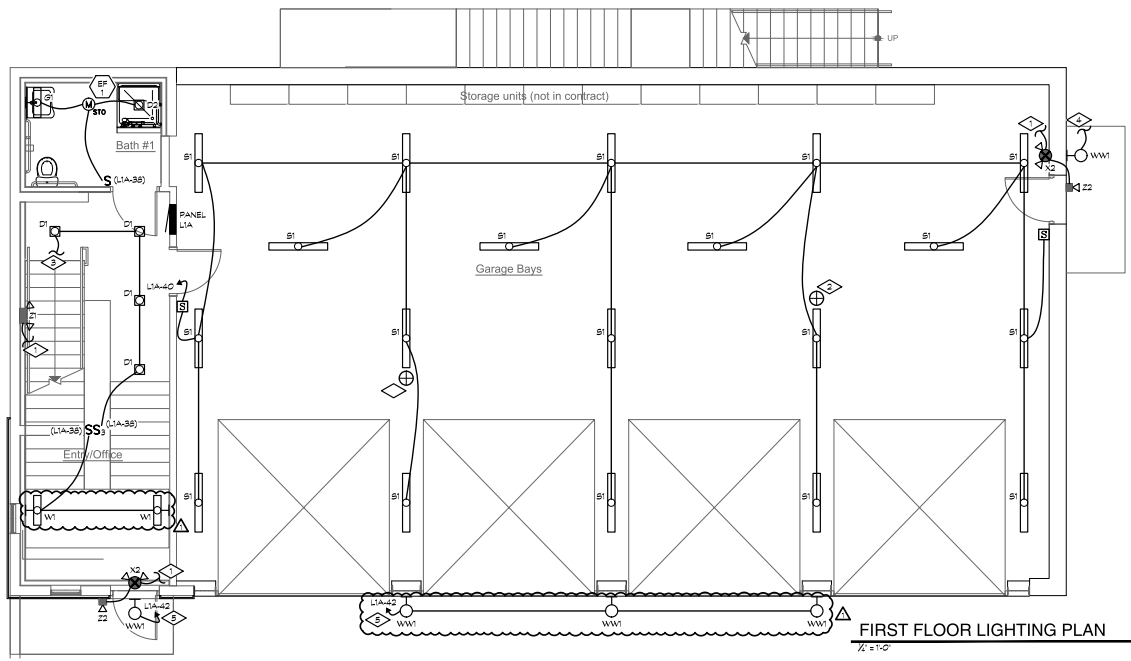
E. THE E.C. SHALL PROVIDE POST-INSTALLATION OCCUPANCY SENSOR ADJUSTMENT, SENSITIVITY AND TIME-OUT SETTING ADJUSTMENT AND CALIBRATION AS REQUIRED.

F. REFER TO THE TENANT'S SPECIAL REQUIREMENTS FOR ADDITIONAL DETAILS AND REQUIREMENTS FOR AREAS SUCH AS WIRING, GROUNDINGS, DEVICES AND DEVICE CONFIGURATION, TAGGING, COLOR CODING, ETC.

G. UPON DISCOVERY OF ANY DISCREPANCIES THE E.C. SHALL NOTIFY THE ENGINEER PRIOR TO CONTINUING.

**DETAIL NOTES THIS SHEET**

1. ENT LIGHTING EXTEND TO AN UNSWITCHED LIGHTING CIRCUIT SERVING THIS AREA.
2. CEILING MOUNTED OCCUPANCY SENSOR CONTROLS ALL FIXTURES IN ROOM. SEE LIGHTING CONTROL LEGEND ON THIS SHEET AND DETAIL ON SHEET E31.
3. EXTEND LIGHTING CIRCUIT TO STARWAY LIGHTING. SEE SECOND FLOOR LIGHTING PLAN THIS SHEET.
4. EXTEND LIGHTING CIRCUIT TO EXTERIOR STARWAY WALLPACKS. SEE SECOND FLOOR LIGHTING PLAN THIS SHEET.
5. EXTERIOR LIGHTING VIA TC/ PC.
6. EXTEND LIGHTING CIRCUIT TO FIRST FLOOR HALLWAY LIGHTING. SEE FIRST FLOOR LIGHTING PLAN THIS SHEET.
7. EXTEND LIGHTING CIRCUIT TO LIGHT OVER VEHICLE BAY ENTRANCE DOOR. SEE FIRST FLOOR LIGHTING PLAN THIS SHEET.
8. PROVIDE FAN-RATED J-BOX.



FIRST FLOOR LIGHTING PLAN  
K=1'-0"

Revisions

No.	Date	Item
△	-28 September 2014	Construction Set
-	-14 August 2014	Building Permit
-	-3 July 2014	Demo Permit

**E1.2**

Printed On: 9/28/14



### LEGEND

- MAIN DISTRIBUTION CENTER
- PANELBOARD
- ELECTRIC SERVICE METER
- CURRENT TRANSFORMER
- TRANSFORMER
- CONCEALED CIRCUIT
- UNDERFLOOR / UNDERGROUND CIRCUIT
- EXPOSED CIRCUIT
- WIRE-MOLD (SURFACE WIREWAY)
- FLUSH-RING
- FM
- HUB-RING TO PANELBOARD (ONE ARROW / OUT, TWO FOR IN)
- HUB-RING TO BUS (ONE ARROW / OUT, TWO FOR IN)
- CIRCUIT NUMBERED FOR SPECIFIED PANEL
- CONDUIT TURNS UP
- CONDUIT TURNS DOWN
- JUNCTION BOX
- RECESSED LAMP HOLDER (NO PULL-DOWN)
- LIGHT FIXTURE (SURFACE MOUNTED)
- RECESSED LIGHT FIXTURE
- WALL MOUNTED LIGHT FIXTURE
- EXIT LIGHT (DIRECTIONAL ARROW)
- BATTERY PACK
- SURFACE FLUORESCENT FIXTURE
- RECESSED FLUORESCENT FIXTURE
- SINGLE OUTLET (CLOCKWISE)
- DUPLEX RECEPTACLE
- ISOLATED GROUND DUPLEX RECEPTACLE - SPD
- SPLIT WIRE DUPLEX
- QUADRUPLEX (DOUBLE DUPLEX)
- COMB. SWITCH / RECEPTACLE
- FLOOR MOUNTED RECEPTACLE
- SPECIAL PURPOSE (AS NOTED)
- TELEVISION OUTLET
- MOTOR OUTLET (BY MANUFACTURER'S NAME)
- TELEPHONE TERMINAL
- TELEPHONE OUTLET
- FLOOR MT'D. TELEPHONE OUTLET
- COMPUTER OUTLET
- COMB. TELE-COMPUTER OUTLET
- TOGGLE SWITCH
- PUSH-BUTTON
- THE SWITCH
- PHOTOCELL
- PUSH-BUTTON STATION
- SAFETY SWITCH
- MOTOR STARTER
- LIGHTING CONTACTOR
- COMBINATION MOTOR STARTER
- RELAY
- FIRE ALARM CONTROL PANEL
- ANNUNCIATOR
- PULL STATION
- HORN
- HORN / LIGHT COMBINATION
- HORN / STROBE
- STROBES
- BELL
- 8" E VALVE
- FLOW SWITCH
- ROOM DETECTOR (SMOKE)
- ROOM DETECTOR (THERMAL)
- DUCT DETECTOR
- RECEPTACLE INDICATING LIGHT TEST SWITCH
- DOOR HOLDER
- CHIME
- FLASHED SWITCH
- CIRCUIT BREAKER
- GROUND CONNECTOR
- MECHANICAL EQUIPMENT
- DETAIL NOTE
- KITCHEN / MEDICAL EQUIPMENT
- (R) EXISTING TO REMAIN
- (R) EXISTING TO BE REPLACED
- (R) EXISTING TO BE DEMOLISHED

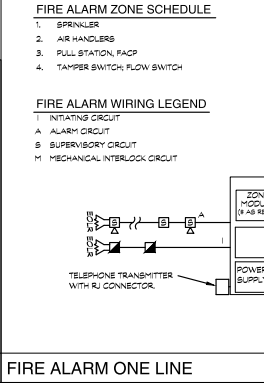
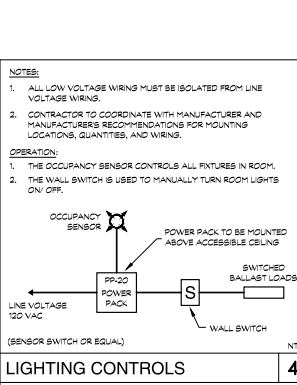
### MECHANICAL EQUIPMENT

KEY	DESCRIPTION	LOAD	VOLT.	CIRCUIT	CONNECTION	REMARKS
LH 1	ELECTRIC UNIT HEATER	3.8 A	120V	(2-#12,#25) 1/2" C	THERMAL O.L.	
BB 2	2-#1" ELECTRIC BASEBOARD HEATER	500 W	120V	(2-#12,#25) 1/2" C	J-BOX	
BB 4	4-#1" ELECTRIC BASEBOARD HEATER	1 KW	120V	(2-#12,#25) 1/2" C	J-BOX	
BB 6	6-#1" ELECTRIC BASEBOARD HEATER	2 KW	240V	(2-#12,#25) 1/2" C	J-BOX	
BB 8	8-#1" ELECTRIC BASEBOARD HEATER	2.8 KW	240V	(2-#12,#25) 1/2" C	J-BOX	
EP 1	CEILING EXHAUST FAN	50 W	120V	(2-#12,#25) 1/2" C	THERMAL O.L.	
EP 2	GARAGE EXHAUST FAN	5 HP	240V	(2-#4,#10) 3/4" C	802 NF	
BWH	ELECTRIC WATER HEATER	3 KW	240V	(2-#12,#25) 1/2" C	302 NF	

NOTES: TEMPERATURE RATINGS OF ALL DEVICES COULD NOT BE VERIFIED, THEREFORE WIRE IS SIZED BASED ON 80C PER NEC TO 140°F(110) °C COORDINATE ALL ROUGH-IN HEIGHTS AND LOCATIONS WITH KITCHEN VENDOR AND/OR OWNER.

### PANEL L1A (FLUSH)

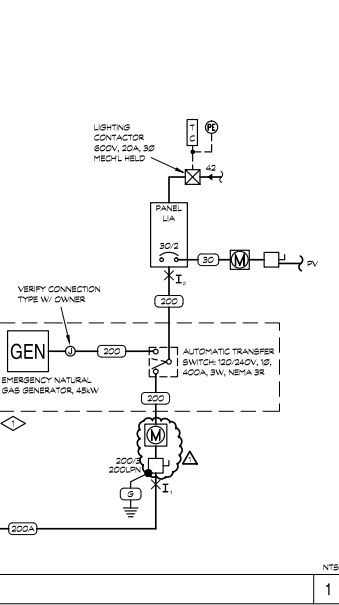
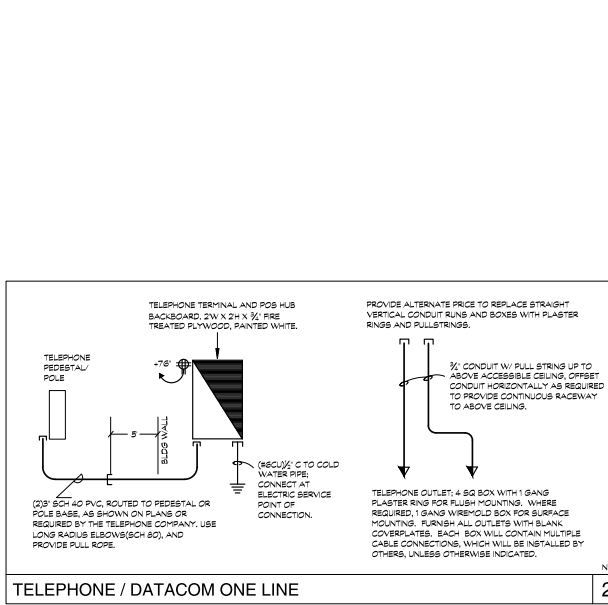
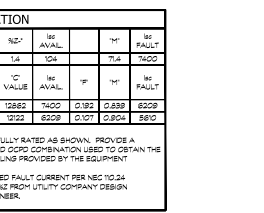
DESCRIPTION	LT	LOAD	BRKR	BT	PHASE	BT	BRKR	LOAD	LT	DESCRIPTION
LIGHTING #125W	3.4 kVA	18 250V, 16, 3W, 222 MLO								RECEPT - L SHUNT TRIP - BT
RECEPTACLE 15' 10kW	7.3 kVA	NT, CAP, 10,000 ALC								RECEPT - R SHP - B
REMANDEUR # 30N	0.0 kVA									MOTOR - M HANDLE BLOC - H
MOTOR LARGEST #125W	8.4 kVA									MOTOR - M HANDLE TIE - T
REMANDEUR # 300N	4.0 kVA	CONN LOAD								KITCHEN - K AMP - A
KITCHEN #100N	0.0 kVA	22.5 kVA @ A								OTHER - O STANDARD - B
OTHER # 100N	19.4 kVA	18.5 kVA @ B								SUB-FEED - S LOADOUT - L
TOTALS (DEMAND)	42.8 kVA	(CONN) 40.8 kVA								MULTI-WIRE CIRCUITS W/ HANDLE TIE PER NEC 220.61
	185 AMP									



### SHORT CIRCUIT CALCULATION

LOCATION	SECONDARY VOLTAGE	Φ	kVA	NE-1	NE-AVAL	NE-104	NE-104	NE-104	NE-104	NE-104			
TRANS	11	240	1	25	1/4	1/4	1/4	1/4	1/4	1/4			
LOCATION	WIRE TYPE	CONDUIT TYPE	WIRE SIZE	DEPTH	LENGTH	VAL	AVAIL	F	HT	NE-104			
METER	11	240	1	AL	NON	250	1	40	12882	1400	0.182	0.283	6523
CLA	11	240	1	AL	TRF	250	1	25	1922	6523	0.107	0.264	5810

NOTES: SWITCHBOARDS, PANELBOARDS AND LOAD CENTERS ARE TO BE FULLY RATED AS SHOWN. PROVIDE A SHORT PRICE TO USE SERIES RATED EQUIPMENT AND PROVIDE THE TESTED GOOD COMBINATION USED TO OBTAIN THE SERIES RATINGS. ALL EQUIPMENT TO HAVE PERMANENTLY ATTACHED LABELING PROVIDED BY THE EQUIPMENT MANUFACTURER AND INSTALLER PER NEC 100.102 AND 100.105 (B). PROVIDE MARKING ON ALL SERVICE EQUIPMENT WITH MAXIMUM CALCULATED FAULT CURRENT PER NEC 10.24 AVAILABLE FAULT CURRENT AT TRANSFORMER CALCULATED BASED ON NE FROM UTILITY COMPANY DESIGN STANDARDS. IF TRANSFORMER SIZE IS OTHER THAN SHOWN, NOTIFY ENGINEER.



**WORKSHOP8**  
architecture | planning | design

1720 15TH STREET  
BOULDER CO 80302

WORKSHOP8.us 303 442 3700

Architect: Joseph Vigil  
Site Registration: BOULDER  
Firm Registration: WORKSHOP8 INC.

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staff@boulderengineering.com

# Jamestown Volunteer Fire Station

The Town of Jamestown  
66 Main Street  
Jamestown CO 80455

Revisions

△ -28 September 2014 Construction Set  
-14 August 2014 Building Permit  
-3 July 2014 Demo Permit

No. Date Item

# E3.1

Printed On: 9/26/14

Electrical Schedules

LUMINAIRE SCHEDULE					
KEY	LAMP	DESCRIPTION	CELLS (DEPTH)	MANUFACTURER#	VOLT
D1	(0)35-W LED	6" ROUND LED DOWNLIGHT, WHITE REFLECTOR, FLAT CLEAR LENS	(9)P (9-3/4)	LITHONIA D016 LED 600L 35W 120 DULB	120
D2	(0)3W GE	SHOWER LIGHT W/ WHITE DIFFUSER & BLACK TRIM, WET LABELED	SURFACE	TRON PR313G-120S-8K	120
G1	(2)17-75 3000K	2 L FLUORESCENT VANTY LIGHT, WALL MOUNT, ELECTRONIC BALLAST	WALL (ABSOL 116520)	LITHONIA 16559E	120
B1	(2)17-75 3000K	4 L LINEAR FLUORESCENT, IMPACT RESISTANT POLYCARBONATE DIFFUSER	SURFACE	BE9H-BLJ B810278-AHT-232V-120V	120
W1	(2)17-75 3000K	2 L WALL BRACKET FLUORESCENT, ACRYLIC DIFFUSER	WALL MOUNT	LITHONIA W81207-AVLT-08B109	120
WW1	(2)2W TRT CFL	WALL PACK, WET LOCATION LISTED, POLYCARBONATE LENS, ALUMINUM HOUSING, ELECTRONIC BALLAST	WALL MOUNT	LITHONIA VR28-3TRT-120	120
X1	FURN	GREEN LED STENCIL FACE EXT SIGN, UNIVERSAL MOUNT, 50 W/WHITE BATTERY PACK	UNIVERSAL	DUAL LITE L1UGW6	120
X2	FURN	GREEN LED STENCIL FACE EXT SIGN, DOUBLE FACE, ALL WHITE HOUSING W/ DOUBLE PROG BYE, BATTERY PACK	UNIVERSAL	DUAL LITE L1UGW6	120
Z1	FURN	DOUBLE PROG BYE, BATTERY PACK, WHITE THERMOPLASTIC HOUSING	WALL	DUAL LITE L22	120
Z2	FURN	OUTDOOR LED EMERGENCY FIXTURE, DIE CAST ALUMINUM, LOW TEMPERATURE BATTERY PACK W/ HEATER (22°F TO 32°F), WET LOCATION LABEL	WALL	DUAL LITE PEA-HTR (N/A FINISH SELECTED BY OWNER)	120

NOTES:  
 \*NOTIFY ENGINEER OF ANY DISCREPANCIES BETWEEN MODEL NUMBERS AND DESCRIPTIONS PRIOR TO ORDERING  
 \*VERIFY CEILING INSULATION W/ GC AND NOTIFY ENGINEER OF ANY C/R RATINGS CONFLICTS PRIOR TO ORDERING

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 1720 15TH STREET  
 BOULDER CO 80502  
 WORKSHOP8.us 303 442 3700

Architect: Joseph Vigil  
 State Registration: 860703  
 Firm Registration: WORKSHOP8 INC.

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**COMcheck Software Version 3.9.4**  
**Interior Lighting Compliance Certificate**

**2009 IECC**

**Section 1: Project Information**  
 Project Type: New Construction  
 Project Title: Jamestown Volunteer Fire Station  
 Construction Site: 66 Main Street, Jamestown, CO 80405  
 Owner/Agent: Designer/Contractor

**Section 2: Interior Lighting and Power Calculation**

A	B	C	D
Area Category	Floor Area (SF)	Allowed Watts / ft <sup>2</sup>	Allowed Watts (B x C)
Police/Fire Station	4449	1	4449
Total Allowed Watts =			4449

**Section 3: Interior Lighting Fixture Schedule**

A	B	C	D	E
Fixture ID / Description / Lamp / Wattage Per Lamp / Ballast	Lamps/ Fixture	# of Fixtures	Fixture Watt	(C x E)
Police/Fire Station (4449 sq ft)				
0" Round LED Downlight D1: LED PAR 19W:	1	10	10	100
Showet Light D2: Two Tube 120W Electronic:	1	2	13	26
2 L Vanity Light G1: 24" TR 17W Electronic:	2	2	34	68
4 L Linear Fluorescent B1: 48" TR 32W Electronic:	2	20	64	1760
2 L Wall Fluorescent W1: 24" TR 17W Electronic:	2	2	34	68
Total Proposed Watts =			2114	

**Section 4: Requirements Checklist**

Interior Lighting PASSES: Check 1's, 2's, 3's, 4's, 5's, 6's, 7's, 8's, 9's, 10's, 11's, 12's, 13's, 14's, 15's, 16's, 17's, 18's, 19's, 20's, 21's, 22's, 23's, 24's, 25's, 26's, 27's, 28's, 29's, 30's, 31's, 32's, 33's, 34's, 35's, 36's, 37's, 38's, 39's, 40's, 41's, 42's, 43's, 44's, 45's, 46's, 47's, 48's, 49's, 50's, 51's, 52's, 53's, 54's, 55's, 56's, 57's, 58's, 59's, 60's, 61's, 62's, 63's, 64's, 65's, 66's, 67's, 68's, 69's, 70's, 71's, 72's, 73's, 74's, 75's, 76's, 77's, 78's, 79's, 80's, 81's, 82's, 83's, 84's, 85's, 86's, 87's, 88's, 89's, 90's, 91's, 92's, 93's, 94's, 95's, 96's, 97's, 98's, 99's, 100's.

**COMcheck Software Version 3.9.4**  
**Exterior Lighting Compliance Certificate**

**2009 IECC**

**Section 1: Project Information**  
 Project Type: New Construction  
 Project Title: Jamestown Volunteer Fire Station  
 Exterior Lighting Zone: 2 (Residential mixed use area)  
 Construction Site: 66 Main Street, Jamestown, CO 80405  
 Owner/Agent: Designer/Contractor

**Section 2: Exterior Lighting Area/Surface Power Calculation**

A	B	C	D	E	F	G
Exterior Area/Surface	Quantity	Allowed Watts / Fixture	Tradeable Wattage (B x C)	Allowed Watts (B x G)	Proposed Watts	Compliance
Main entry	3 ft of door width	20	Yes	60	32	
Other door (not main entry)	6 ft of door width	20	Yes	120	64	
Showery	150 SF	1	Yes	150	64	
Illuminated length of facade wall or surface	54 ft	2.5	No	135	96	
Total Tradeable Watts =			200	160		
Total Allowed Watts =			415			
Total Supplemental Watts =			600			

\* Wattage tradeoffs are only allowed between tradeable areas/surfaces.  
 \*\* A supplemental allowance equal to 600 watts may be applied toward compliance of both non-tradeable and tradeable areas/surfaces.

**Section 3: Exterior Lighting Fixture Schedule**

A	B	C	D	E
Fixture ID / Description / Lamp / Wattage Per Lamp / Ballast	Lamps/ Fixture	# of Fixtures	Fixture Watt	(C x E)
Police/Fire Station (4449 sq ft)				
Main entry (3 ft of door width): Tradeable Wattage				
Wall Pack WW1: Triple 4 pin 32W Electronic:	1	1	32	32
Other door (not main entry) (6 ft of door width): Tradeable Wattage				
Wall Pack WW1: Triple 4 pin 32W Electronic:	1	2	32	64
Showery (150 SF): Tradeable Wattage				
Wall Pack WW1: Triple 4 pin 32W Electronic:	1	2	32	64
Illuminated length of facade wall or surface (54 ft): Non-tradeable Wattage				
Wall Pack WW1: Triple 4 pin 32W Electronic:	1	3	32	96
Total Tradeable Proposed Watts =			160	

**Section 4: Requirements Checklist**

**Lighting Wattage:**  
 1. Total proposed watts must be less than or equal to total allowed watts.  
 Allowed Watts: 4449, Proposed Watts: 2114, Complies: YES

**Controls, Switching, and Wiring:**  
 2. Daylight zones under skylights more than 15 feet from the perimeter have lighting controls separate from daylight zones adjacent to vertical fenestration.  
 3. Daylight zones have individual lighting controls independent from that of the general area lighting.  
 4. Independent controls for each space (switch/coincidence sensor).  
 5. Areas designated as security or emergency areas that must be continuously illuminated.  
 6. Lighting in stairways or corridors that are extensions of the means of egress.  
 7. Motion sensor at entry to residential guest room.  
 8. Individual dwelling units separately metered.  
 9. Medium task lighting or auxiliary display lighting claimed to be exempt from compliance has a control device independent of the control of the nonexempt lighting.  
 10. Each space required to have a manual control also allows for reducing the connected lighting load by at least 50 percent by either controlling all luminaires, dual tasking of alternate rows of luminaires, alternate luminaires, or alternate lamps, switching the middle lamp luminaires independently of other lamps, or switching each luminaire or each lamp.  
 11. Tension-wired one-lamp and three-lamp ballasted luminaires (one single lamp ballast).  
 12. Electronic high-frequency ballasts, luminaires or emergency circuits or with no available part.

**Section 5: 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 lighting system has been designed to meet the 2009 IECC requirements in COMcheck Version 3.9.4 and to comply with the International Energy Conservation Code (IECC) Checklist.  
 Gerald Novotny, P.E. 8/1/14  
 Name - Title Signature Date

**Jamestown Volunteer Fire Station**  
 The Town of Jamestown  
 66 Main Street  
 Jamestown CO 80455

Revisions

No.	Date	Item
-28	September 2014	Construction Set
-14	August 2014	Building Permit
-3	July 2014	Demo Permit

**E3.2**  
 Printed On: 8/26/14  
 Electrical Schedules

**DIVISION 26 - ELECTRICAL**

**SECTION 26 01 00 - GENERAL PROVISIONS**

**1. WORK INCLUDED**

- A. The work included by this division of the specifications includes furnishing all labor, materials, equipment, and services, including minor items omitted but necessary to construct and install the complete systems described by the Contract Documents and specified herein. "Contract" refers to the Contract Documents. The general conditions of the specifications apply and are included in this part of this section.
- B. Power Distribution System
- C. Interior and Exterior Lighting System
- D. Telephone Recovery System
- E. Data Recovery System
- F. Fire Alarm System
- G. Emergency Lighting System
- H. Electric Heating System

**2. CODES AND REGULATIONS**

- A. Comply with state and local codes, and utility company regulations. Final inspections will be made by the local inspection authority. The Contractor to verify the compliance of the following Codes, including any local amendments and supplementary codes such as the Codes of the National Fire Protection Association:
  - 1. Building Code: 2009 International Building Code
  - 2. Plumbing Code: 2009 International Plumbing Code
  - 3. Mechanical Code: 2009 International Mechanical Code
  - 4. Fire Code: 2009 International Fire Code
  - 5. Gas Code: 2009 International Fuel Gas Code
  - 6. Energy Code: 2009 International Energy Code
  - 7. Electrical Code: 2011 National Electrical Code

**EQUIPMENT AND MATERIALS STANDARDS**

- A. Equipment and materials shall be new, UL-listed for the use intended, and free from damage or defect. They shall comply with the latest industry standards.
- B. CONTRACT DRAWINGS:
  - 1. Illustrate the general design and extent of performance required. All dimensions and locations shall be taken from the Architectural drawings. Consult with Architectural Shop drawings and location of ceiling equipment where indicated on reflected ceiling plans.

**3. SHOP DRAWINGS**

- A. Submit product data and/or shop drawings as required by the Architect for the following:
  - 1. Switches, dimmers, receptacles, and outlets
  - 2. Switchboards, Panelboards, Load Centers
  - 3. Disconnect switches
  - 4. Fuses
  - 5. Light fixtures
  - 6. Fire alarm system equipment
- B. Quality of equipment is established by manufacturer's catalog number. Alterations caused by any Substitution shall be accomplished at an additional expense to be provided by the Contractor.
- C. Manufacturer's listing may be sufficient for acceptance as an "approved equivalent." Request for an "equivalent" means "approved equivalent." Four copies of such substitution must be received by the Engineer seven (7) working days prior to bid date.

**4. WARRANTIES**

- A. The contractor shall be responsible for the successful operation of electrical systems, equipment, and materials installed under this Contract for a period of one year from the date of final acceptance. Defective system or materials shall be repaired or replaced at no cost to the Owner.

**5. PRODUCT HANDLING AND CLEANUP**

- A. Equipment shall be well stored and safeguarded, to the satisfaction of the Owner. The General Conditions take precedence.
- B. CUTTING AND REPAIRING:
  - 1. The contractor shall be responsible for all cutting, drilling, welding, and repair required by his portion of the work. Coordinate with the written instructions in the trade book. The General Conditions take precedence.

**6. OPERATING AND MAINTENANCE DATA**

- A. Provide the Owner with operating and maintenance instructions for copies required for operation of all electrical systems. Bind the written instructions in a trade book. The General Conditions take precedence.

**7. PERMITS**

- A. The contractor shall apply for all fees, taxes, record permits, licenses, and inspections required by the project.
- B. TEMPORARY SERVICES:
  - 1. Provide temporary power and lighting as required by the General Contractor, in accordance with OSHA and N.E.C. standards.

**8. COORDINATION**

- A. Coordinate with design and equipment locations with the Architectural Plans and work of other trades. Locate on horizontal and vertical lines to avoid interference and to provide functional use of all equipment. Verify electrical power characteristics before installation.
- B. Mechanical work performed by the contractor will conform to the standards of Division 21-23. Mechanical equipment rooms and controls shall be finished at the place and level agreed according to the following schedule unless otherwise noted or specified. MC - Division 21-23 EC - Division 26-28

**9. DELIVERY, STORAGE, AND HANDLING**

- A. Provide necessary handling and housing equipment. Protect the materials of this division before, during, and after installation.
- B. ASSEMBLY DRAWINGS:
  - 1. Keep a current set of "as-built" drawings on site. Upon completion of the work, furnish owner with reproducible prints showing the "as-built" installation.

**10. PROTECTIVE CONDITIONS**

- A. Visit the site to become familiar with location and the various conditions affecting the work, including existing utilities.
- B. ACCESS PANELS:
  - 1. The electrical Contractor shall furnish and General Contractor shall install access panels where required for access to equipment. The electrical Contractor shall include the cost of installation in his bid. Access panels shall be adequately sized, of a type approved by the Architect and shall be fire or smoke-rated as required.

**11. PROTECTION AND PROTECTIVE WORK**

- A. Verify the location of underground utilities before excavation; the contractor is responsible for any damage to underground utilities. Provide excavating and backfilling for electrical work. Backfill in 12" lifts, mechanically tamp to 95% proctor standard. Protect according to OSHA standards. The General Conditions take precedence.
- B. Provide marker tape 12" above exterior underground service conductors (power, telephone, television).

**12. START-UP PROCEDURES**

- A. Follow manufacturer's recommended procedures in starting up the equipment; damage caused during start-up shall be replaced at an expense to the owner.
- B. HANGERS AND SUPPORTS:
  - 1. Support conductors and equipment from the structure to prevent sagging, pecking, swaying, and vibrations, and arranged to provide for expansion and contraction. Buckets, clamps, and hangers shall be steel or copper of a type acceptable to the Engineer. Chain, preferred over wire hangers are not permitted.
  - 2. Conduct on the roof will be supported above the roof on roof pads. The pads shall be approximately 6" wide by 6" high to the length as required. They shall be made of recycled rubber, rated for 5000-lb loading each. The pads will have galvanized steel "C" channel attached to the top, which can accommodate pipe clamps to secure the conductors. This configuration of individual piping pads may be expanded to include two pads supporting a single pipe where multiple conductors are racked together. The pads are Castes manufactured by Cooper B-Line or approved equivalent.

**13. SLEEVES AND PLATES**

- A. Provide sleeves and plates for all conductors. The contractor shall be responsible for the cost of cutting and packing required for piping where sleeves and inserts were not installed or where inappropriately located. Sheetrock joint compound may be used to seal openings in non-rated walls (installation is not to compromise through walls).
- B. Drill holes as required for the installation of hangers required for the mechanical work.
- C. Where pipes are placed in exterior walls below grade, the space between the pipe and the concrete shall be filled with a completely non-fire rating.
- D. All holes being finished through fire-rated construction with approved material to maintain air-tight, fire-resist integrity, with a U.L. listed assembly compatible with the wall or floor assembly being penetrated.

**SECTION 26 05 00 - COMMON WORK RESULTS FOR ELECTRICAL**

**1. GENERAL**

- A. Provide complete systems of conductors and necessary wiring and cable assemblies appropriate to the function and location, and specifically approved in chapter three of the N.E.C..

**2. CONDUIT**

- A. The following raceways are approved for use on this project, where approved by the N.E.C.:
  - 1. EMT: Electrical metallic tubing, galvanized steel
  - 2. GRC: Rigid steel conduit, galvanized

**3. PVC: Poly(vinyl chloride) conduit, schedule 40**

**4. IMC: Intermediate metal conduit, galvanized**

**2. CABLE ASSEMBLIES**

- A. The following cable assemblies may be used in the power distribution system in concealed locations, where approved by the N.E.C.:
  - 1. MC: Metal clad cable

**3. BUSES**

- A. Provide galvanized steel outlet and junction boxes, except where otherwise indicated. Boxes shall be a minimum 4" square or equivalent, depending on the application. Provide weather-proof type cast boxes with gasket and cast coverplate for exterior outlets or wet locations. Outlet boxes shall be of the proper type and design for the fixture or device to be installed. Though the wall boxes are not permitted. Provide plaster or rim rings for all flush outlet installations where required. Boxes shall be manufactured by Raex, Steel City, National or equivalent.
- B. Interior floor boxes shall be non-metallic or cast steel in concrete or slab on grade installations, and shall be rated for the floor.
- C. Where above grade shall be non-metallic or stamped steel, rated for the use. Multi-gang boxes shall be made where specified. Covers shall be polished brass or cast iron for receptacles and outlets. Provide carrier flanges where appropriate.

**4. CONNECTIONS**

- A. Provide a complete set of power conductors, rated 600 volts, of the quantity, size and type required for the size load.
  - 1. Conductors shall be copper, except where specifically noted. Conductors shall be solid for sizes No. 10 AWG and smaller, stranded for No. 8 AWG and larger.
  - 2. Aluminum conductors will be accepted only where specifically indicated by the Contract Documents. Aluminum conductors must be terminated according to the manufacturer's instructions, including use of proper joint compound, and with aluminum nut caps, and proper sequencing of the tags.

**5. INSULATION**

- A. Provide wire with the following minimum insulation standards:
  - 1. Branch circuits, panelboard feeders, service entrance conductors: THWN-2, 200% (90°C).
- B. Conductors shall be applied using the 75C rating:
  - 1. Branch circuits, panelboard feeders, service entrance conductors: THWN-2, 200% (90°C).
  - 2. Connections to fixture ballasts, and wiring runs in or through fixture wiring channels: Insulations listed in table 802 of the N.E.C., except for wiring made with asbestos.
  - 3. Cord connections: Cord listed in table 404 of the N.E.C., except for wiring made with asbestos.

**6. FUSES**

- A. Fuses for all equipment will be rated for the use. Loads will be rated for the use. Loads will be rated for the use. Loads will be rated for the use.
  - 1. Branch circuits, panelboard feeders, service entrance conductors: THWN-2, 200% (90°C).

**7. DIMMERS**

- A. Fluorescent dimmers shall be the linear slide-type with aluminum fins. Dimmers shall be Lutron Nova series or equivalent.
  - 1. Fluorescent dimmers shall be the linear slide-type with aluminum fins. The dimmers shall be closely coordinated with the ballast type of the specific fixture, fixture wiring controlled and lead be field coordinated between dimmers. Shall be Lutron Nova series or equivalent.
  - 2. LED dimmers must be selected by, or specifically approved by, the specific fixture manufacturer or supplier. Slide type dimmers are preferred where available.
- B. When switches and dimmers are located side by side, switches shall have identical appearance as dimmers. Dimmers shall in no case have bare live terminals or modified.
- C. Dimmers shall be manufactured by Lutron, Planer, Resistor, or equivalent.

**8. SWITCHES**

- A. The drawings are schematic in nature; alternative wiring paths, different conduit fill, etc. shall be in accordance with the N.E.C. as allowed. Conductors must be derated per code.
  - 1. Branch circuits shall use minimum No. 12 AWG wiring for branch circuits, protected by 20 ampere circuit breakers. Control wiring may be No. 18 minimum. Distance from panel to first outlet is 7'10" or greater (for 20-circuit or 150 for 40-circuit or greater (for 27-circuit or less), No. 10 AWG).
  - 2. Use PVC in earth in cable in contact with earth. Outside the building, install a minimum of 10' above finished grade.
- B. Where mechanical damage occur, use galvanized rigid steel or intermediate metal conduit.
- C. Electric metallic wiring may be used in inaccessible locations, where approved by the Architect.
- D. Do not install exposed conduit in areas open to the public. Exposed conduit may be installed in surface-mounted equipment and other locations acceptable to the Architect. Run exposed conduit parallel to, and at right angles with, the building lines.
- E. Direct burial wiring shall not be used.
- F. Use flexible metallic conduit for connections to motors, fixtures, or other equipment where vibration is encountered. Provide suitable flexible metallic conduit in wet areas such as showers, equipment rooms, or outdoors.
- G. Provide a ground wire in non-metallic conduit and flexible conduit. Ground wires shall be increased in size where circuit wiring is necessary for voltage drops.
- H. Circuits fed through AFCI breakers shall have separate neutral wires. No cross or ground connections, wiring shall be installed per the breaker manufacturer's instructions.
- I. Multi-wire branch circuits shall utilize hand ties on breakers, or other grouped disconnecting means per NEC 210.4(B).

**9. OUTLET BOXES, RECESSED HANGINGS**

- A. Install receptacle and telephone outlets at 48" in center-line above floor in general locations; install at switch height where shown in combination; install 42" AFT in mechanical equipment rooms.
  - 1. Install receptacles vertically, ground pole down.
  - 2. Install outlets within 42" above floor on back side of door. Verify door swing prior to installation. Use girth hangers for multiple-device installations as required.
  - 3. Install outlets within 42" above floor on back side of door. Verify door swing prior to installation. Use girth hangers for multiple-device installations as required.
- B. Install outlets shown on the drawings "back-to-back" with a minimum of 6" lateral separation between them.

**SECTION 26 06 00 - SERVICE AND DISTRIBUTION**

**1. SERVICE ENTRANCE**

- A. Power shall be available from the secondary side of a transformer(s) provided by the utility company. This service shall be 120/208 V, 3 phase, 4 wire, 60 Hz AC, for normal power and lighting requirements. General arrangement of the service equipment is shown on the drawings. Load balance the entire system within 1% per phase.

**2. GROUNDING**

- A. Provide a complete grounding system in accordance with Section 250 of the N.E.C.

**3. PANEL BOARD**

- A. Provide steel breaker-type panelboards as detailed on the drawings. Provide separate ground bus. Provide fronts with door and lock with keys keyed alike. Install panels 60" above finished floor to top of trim. Where panels are mounted side by side, align top of panels. Mount a rigid divider, identify each circuit in a directory fixture. Provide type source label and identifying source of power for each panel. Install trim and doors with primer coats in finished areas. Provide one spare 1/4" conduit for each 1 mixed panel in finished-mounted panelboard, extend from an accessible point above a hung ceiling and identify.
- B. Breakers shall be full volt, thermal magnetic, bolt-on type. Provide multi-pole breakers with common trip and single opening handle handle ties are acceptable for multi-line breakers circuits.
- C. Breakers serving sensitive loads, such as, or where required by code, shall be GFCI breakers. GFCI receptacles may be used only where the receptacles are not located behind equipment.
- D. HACR breakers shall be used for HVAC equipment in accordance with the equipment manufacturer.
- E. HID breakers shall be used where HID or fluorescent fixtures are normally panel switched.
- F. Panelboards 200V AC shall be Square D type NQDD or equivalent by I.L.E., G.E., Cutler Hammer, or equivalent.

**4. SAFETY SWITCHES**

- A. Provide non-current interrupting, lockable, fire and non-fire-rated switches as indicated on the plans. All has shall be rated 75C or 66C, copper or aluminum wiring. Provide enclosures suitable for the surrounding area and conditions. Label switches for feeder or control as required. The switches shall be manufactured by Square D, I.L.E., G.E., Cutler Hammer, or equivalent.

**5. FUSES**

- A. Provide power fuses of the time-delay type unless otherwise indicated. Fuses shall be manufactured by Buszom, Gould Shuntner, or equivalent. Provide use (1) container set of fused fuse for face-holding devices, used according to the motor and conductor to be protected. Provide a time-lag cube for cabinet for spare fuses; fuses shall be fused.

**6. WIRING FOR EQUIPMENT**

- A. Provide branch circuits, feeders, branch circuits, disconnect switches, etc. as required for a complete system; make proper connections to motors and controls for heating, ventilating, air conditioning, plenum furnished and the protection equipment as required.
- B. Kitchen equipment. Refer to the Kitchen Equipment Contractor's drawing for final sizing, locations, and rough-in heights. The Electrical Contractor shall provide final circuits and connections to kitchen electrical equipment. Suitable conduit and fittings shall be used in runs inside refrigerated cases and in dish racks.
- C. Provide connections to hood fire suppression systems. The electrical contractor is responsible for wiring the interlock controls for hood installed air handling equipment, including low voltage interlocks, and interlocks within building HVAC equipment where required.

**SECTION 26 08 00 - LIGHTING**

**1. RECESSED INCANDESCENT**

- A. Recessed incandescent luminaires shall be pre-wired. Openings shall be neatly made as they are completely concealed after the unit is installed. Luminaires installed in a grid ceiling shall be supported by the framing system, not by ceiling panels. Install metal plaster frames in plaster ceilings. Fixtures shall have thermal protection where required by the I.L.E., and local codes.

**2. RECESSED FLUORESCENT**

- A. Recessed fluorescent luminaires shall be of the proper type for the ceiling. No disjunction or field modifications of the fixtures or ceiling are allowed. Luminaires shall be ready for installation individually or in continuous runs with interlocks.

**3. EXTERIOR LIGHTING FIXTURES**

- A. Provide weather-proof luminaires for mounting as shown. Provide lamps of size and wattage as indicated on the drawings. Provide the weather-proof wiring to exterior lighting fixtures as shown on the drawings.

**4. EXTERIOR LIGHTING FIXTURES**

- A. Provide weather-proof luminaires for mounting as shown. Provide lamps of size and wattage as indicated on the drawings. Provide the weather-proof wiring to exterior lighting fixtures as shown on the drawings.

**5. EXTERIOR LIGHTING FIXTURES**

- A. Provide weather-proof luminaires for mounting as shown. Provide lamps of size and wattage as indicated on the drawings. Provide the weather-proof wiring to exterior lighting fixtures as shown on the drawings.

**6. EXTERIOR LIGHTING FIXTURES**

- A. Provide weather-proof luminaires for mounting as shown. Provide lamps of size and wattage as indicated on the drawings. Provide the weather-proof wiring to exterior lighting fixtures as shown on the drawings.

**2. EXTERIOR LIGHTING FIXTURES**

- A. Exterior lighting fixtures, recesses, equipment, etc. shall be weather proof and suitable for temperatures down to -20F.
  - 1. Ballast type: lamp wattage, and mounting voltage shall be as indicated on the plans. Each ballast shall be of the separate-component type capable of reliable lamp starting down to -20F, and shall have a minimum power factor of 90.

**3. LAMPS**

- A. Incandescent lamps shall be rated at 130V, I.L.D. and fluorescent lamps shall be as specified on plans with ballasts as specified in the following specifications. Lamp codes listed are ANSI. All lamps shall be Type A, General Electric, or approved equivalent.
  - 1. In protection for the fixtures, provide medium base, self-ballasted, A-line tube, fluorescent lamps, GE HLI 5/2A21 or equivalent.

**4. BALLASTS**

- A. Conduct ballasts shall be U.L. listed and comply with all applicable state and federal efficiency standards. Ballasts shall be manufactured in the U.S. Ballast end temperatures shall not exceed 90F.
  - 1. Fluorescent ballasts:
    - 1. Ballasts shall be high frequency electronic type, operating lamps at a frequency of 20 KHZ or higher with no AC flicker.
    - 2. Where required by code, the ballast shall have an integral minimum discharge device, in accordance with NEC 410.130.
    - 3. Where electronic ballasts are not available for a particular fixture or lamp configuration, electronic-type electronic-type ballasts may be used. Other requirements of this section shall apply.
    - 4. Ballasts shall be equipped with UL component, recognized, non-PCH protected components, Class P protection, and class A sound rating.
  - 2. Ballasts shall meet all applicable ANSI and IEEE standards regarding harmonic distortion and surge protection.
  - 3. Ballasts shall have power factor above 90% and a lamp start factor less than 1.6.
  - 4. Energy ballasts shall be fuse-mounted, self-contained type including ballast, auto start, heater, inverter and sensing circuitry, all mounted in a red steel enclosure. The units shall be rated for 90 minute operation, and shall provide at least 1,000 lumens for single or pin-fixture lamps, and 970 lumens for compact fluorescent lamps. Ballasts shall be U.L. listed and shall be manufactured by Ballast, or equivalent.
  - 5. Ballasts shall have a three year warranty, including labor allowance.
  - 6. Ballasts shall be Magneq's "Tri-Ad" type for larger lamps, "Universal" type for compact lamps. Approved equivalent are General Electric, Adcon or Universal.

**5. HIGH VOLTAGE DISCHARGE**

- A. High Voltage Discharge: High-voltage discharge ballasts shall be high power factor, constant wattage, autotransformer type. Ballasts shall be manufactured by Magneq, Universal, General Electric, or Adcon.

**6. OUTDOOR LIGHTING FIXTURES**

- A. Provide combination photo-cell time switch, lighting control system as shown on drawings. Include contactors, photo-cell, time switches, transformers, solenoids, switches, relays, wiring, etc. as required.
  - 1. Most photo-electric cell facing north or east in a protected area, shielded so artificial light does not affect proper operation. Set photo-cell to close during daylight hours, and open during dusk.
  - 2. Set time clocks to operate contacts as scheduled hours by Oyster.
  - 3. Time clock shall be seven day type with spring carry over. Provide 200VAC contacts. Time clock shall be readily adjustable.

**DIVISION 27 - COMMUNICATIONS**

**SECTION 27 00 00 - COMPUTER SYSTEM**

**1. DESCRIPTION**

- A. Provide a complete system of raceways, pull boxes, outlet boxes, and terminals. Raceways shall form a complete path up walls and across accessible ceilings. Computer wiring shall be run wild above accessible ceiling.

**2. CONDUIT**

- A. Conduit in the building shall be galvanized EMT, with plastic hangers on ends which are not terminated in a box. Exterior underground conduit shall be schedule 40 PVC with solvent joints.

**3. WALL OUTLETS**

- A. Provide 4 square pressed steel boxes, with single gang plaster ring. Connectors and coverslips are to be provided by the computer system installer.
  - 1. Provide an alternate place for plaster rings at outlet location, and pullboxes in wall up to accessible ceiling, in lieu of conduit and coverslips.

**4. TERMINALS**

- A. Wiring shall be provided by the computer system installer. Wiring run wild in air plenums shall be teflon coated or similarly rated for the application.

**5. EXCUTION**

- A. Provide pull strips in conduit.
  - 1. Exterior underground conduit shall use long radii, sweep only. These elbows shall be schedule 80 PVC, or PVC coated GRC conduit.

**6. TERMINALS**

- A. Field wiring of telephone outlet locations. Final locations and heights shall be as designated by the Architect or Owner's representative.

**7. TERMINALS**

- A. Telephone terminals shall be constructed of 17" thick, fire resistant, interior finish plywood, painted white, sized as shown or required. Provide power and ground connections as required or shown on the plans.

**8. WALL OUTLETS**

- A. Wall outlets shall be 4" square pressed steel boxes, with single gang plaster ring. Connectors and coverslips are to be provided by the video system installer.
  - 1. Provide an alternate place for plaster rings at outlet location, and pullboxes in wall up to accessible ceiling, in lieu of conduit and coverslips.

**9. WALL OUTLETS**

- A. Wall outlets shall be 4" square pressed steel boxes, with single gang plaster ring. Connectors and coverslips are to be provided by the video system installer. Wiring run wild in air plenums shall be teflon coated or similarly rated for the application.

**10. WALL OUTLETS**

- A. Wall outlets shall be 4" square pressed steel boxes, with single gang plaster ring. Connectors and coverslips are to be provided by the video system installer. Wiring run wild in air plenums shall be teflon coated or similarly rated for the application.

**11. WALL OUTLETS**

- A. Wall outlets shall be 4" square pressed steel boxes, with single gang plaster ring. Connectors and coverslips are to be provided by the video system installer. Wiring run wild in air plenums shall be teflon coated or similarly rated for the application.

**12. WALL OUTLETS**

- A. Wall outlets shall be 4" square pressed steel boxes, with single gang plaster ring. Connectors and coverslips are to be provided by the video system installer. Wiring run wild in air plenums shall be teflon coated or similarly rated for the application.

**13. WALL OUTLETS**

- A. Wall outlets shall be 4" square pressed steel boxes, with single gang plaster ring. Connectors and coverslips are to be provided by the video system installer. Wiring run wild in air plenums shall be teflon coated or similarly rated for the application.

**14. WALL OUTLETS**

- A. Wall outlets shall be 4" square pressed steel boxes, with single gang plaster ring. Connectors and coverslips are to be provided by the video system installer. Wiring run wild in air plenums shall be teflon coated or similarly rated for the application.

**15. WALL OUTLETS**

- A. Wall outlets shall be 4" square pressed steel boxes, with single gang plaster ring. Connectors and coverslips are to be provided by the video system installer. Wiring run wild in air plenums shall be teflon coated or similarly rated for the application.

**16. WALL OUTLETS**

- A. Wall outlets shall be 4" square pressed steel boxes, with single gang plaster ring. Connectors and coverslips are to be provided by the video system installer. Wiring run wild in air plenums shall be teflon coated or similarly rated for the application.

**17. WALL OUTLETS**

- A. Wall outlets shall be 4" square pressed steel boxes, with single gang plaster ring. Connectors and coverslips are to be provided by the video system installer. Wiring run wild in air plenums shall be teflon coated or similarly rated for the application.

**18. WALL OUTLETS**

- A. Wall outlets shall be 4" square pressed steel boxes, with single gang plaster ring. Connectors and coverslips are to be provided by the video system installer. Wiring run wild in air plenums shall be teflon coated or similarly rated for the application.

**19. WALL OUTLETS**

- A. Wall outlets shall be 4" square pressed steel boxes, with single gang plaster ring. Connectors and coverslips are to be provided by the video system installer. Wiring run wild in air plenums shall be teflon coated or similarly rated for the application.

**20. WALL OUTLETS**

- A. Wall outlets shall be 4" square pressed steel boxes, with single gang plaster ring. Connectors and coverslips are to be provided by the video system installer. Wiring run wild in air plenums shall be teflon coated or similarly rated for the application.

**21. WALL OUTLETS**

- A. Wall outlets shall be 4" square pressed steel boxes, with single gang plaster ring. Connectors and coverslips are to be provided by the video system installer. Wiring run wild in air plenums shall be teflon coated or similarly rated for the application.

**22. WALL OUTLETS**

- A. Wall outlets shall be 4" square pressed steel boxes, with single gang plaster ring. Connectors and coverslips are to be provided by the video system installer. Wiring run wild in air plenums shall be teflon coated or similarly rated for the application.

**23. WALL OUTLETS**

- A. Wall outlets shall be 4" square pressed steel boxes, with single gang plaster ring. Connectors and coverslips are to be provided by the video system installer. Wiring run wild in air plenums shall be teflon coated or similarly rated for the application.

**24. WALL OUTLETS**

- A. Wall outlets shall be 4" square pressed steel boxes, with single gang plaster ring. Connectors and coverslips are to be provided by the video system installer. Wiring run wild in air plenums shall be teflon coated or similarly rated for the application.

**25. WALL OUTLETS**

- A. Wall outlets shall be 4" square pressed steel boxes, with single gang plaster ring. Connectors and coverslips are to be provided by the video system installer. Wiring run wild in air plenums shall be teflon coated or similarly rated for the application.

**26. WALL OUTLETS**

- A. Wall outlets shall be 4" square pressed steel boxes, with single gang plaster ring. Connectors and coverslips are to be provided by the video system installer. Wiring run wild in air plenums shall be teflon coated or similarly rated for the application.

**27. WALL OUTLETS**

- A. Wall outlets shall be 4" square pressed steel boxes, with single gang plaster ring.

# JVFS Aerial

Appendix B

Legend



Google Earth

100 ft













**Attachment B**  
**Fire Station Back-up Generator Installation CDBG-DR INF-00064**

<b>Item #</b>	<b>Description</b>	<b>Quantity</b>	<b>Unit</b>	<b>Unit Price</b>		<b>Total</b>
1	General Conditions	1	LS	\$	-	\$ -
2	Design Services	1	LS	\$	-	\$ -
3	Erosion control	1	LS	\$	-	\$ -
4	Permitting	1	LS	\$	-	\$ -
5	Concrete Pad Installation	1	LS	\$	-	\$ -
6	LP Plumbing	1	LS	\$	-	\$ -
7	Electrical Connections	1	LS	\$	-	\$ -
8	Equipment	1	EA	\$	-	\$ -
9	Furnish & Install Gabion Basket Wall (3'x3')	50	FT	\$	-	\$ -
10	Generator Start-up & Testing	1	LS	\$	-	\$ -
11	Site Restoration	1	LS	\$	-	\$ -
12	Minor Contract Revisions (10% of of total costs)	10	%	\$	-	\$ -
				<b>Total:</b>	\$	-

**SAMPLE**

**JAMESTOWN CONTRACT**  
**[Project Name]**  
**[Project Number]**

---

THIS CONTRACT ("Contract") is entered into between the Town of Jamestown, State of Colorado, acting by and through its Town Board of Trustees ("Town") and \_\_\_\_\_ ("Contractor").

In consideration of the rights and obligations specified below, the Town and the Contractor agree as follows:

1. Incorporation into Contract: *The Invitation to Bid and Bid Specifications of Jamestown Bid No. ITB James.045*, together with any alterations and/or modifications to these Specifications (the "Bid Documents"), are expressly incorporated into this Contract by this reference.

2. Work to be Performed: The Contractor will, in a good and workmanlike manner and at its own cost and expense, furnish all labor and equipment and do all work necessary and incidental to performing Jamestown Andersen Hill Bridge and Walls as specified in the Bid Documents and this Contract (the "Work"). The Contractor shall perform the Work in strict accordance with the Bid Documents and this Contract.

3. Term of Contract; Time of Commencement and Completion; Liquidated Damages:

a. This Contract shall begin and become effective on the date of execution by the parties, which date is the date specified on the signature page of this Contract. Under this Contract, Notice to Proceed will be given on \_\_\_\_\_ and the Contractor work shall proceed based on the schedule shown in Exhibit A of this document. All work shall be complete in a manner acceptable to the Town, and in compliance with this Contract on or before \_\_\_\_\_.

b. Prompt completion of the Work is essential to the Town, and time is of the essence in all respects regarding this Contract and the Work. The Town shall determine whether the work has been substantially completed, using such factors as are deemed appropriate by the Town, including but not limited to the definition of "substantial completion" provided in C.R.S. § 24-91-102(5).

4. Payment for Work Performed: In consideration of the Work to be performed by the Contractor, the Town shall pay to the Contractor, in accordance with the Bid Documents, an amount not to exceed \_\_\_\_\_. Unit prices and unit costs for the Work shall not exceed those shown in the Bid Documents. Contractor shall furnish, except as may otherwise be provided in writing, all labor, services, materials, tools, and equipment for the completion of the Work.

5. Scope of Payment: The Contractor shall accept the compensation, as herein provided, in full payment for furnishing all materials, equipment, labor, tools, and incidentals necessary to complete the work and for performing all work contemplated and embraced under this Contract. Except where

attributable to the gross negligence or intentional act of the Town, compensation shall also include loss or damage caused by the nature of the work, the action of the elements, or any unforeseen difficulties which may be encountered during the prosecution of the work, for all expenses incurred in consequence of the suspension or discontinuance of the work as herein specified, and for any infringement of patent, trademark, or copyright. Compensation shall be for completing the work according to this Contract. Neither the payment of any estimate or progress payment nor the payment of any retained percentage shall relieve the Contractor of any obligations to correct any defective work or material. No funds, payable under this Contract or any part thereof, shall become due and payable, if the Town so elects, until the Contractor shall satisfy the Town that it has fully settled or paid for all materials and equipment used in or upon the work and labor done in connection therewith. The Town may pay any or all such claims or bills, wholly or in part, and deduct the amount or amounts so paid from any funds due Contractor. In the event the surety on any contract, performance bond, payment bond, or warranty bond given by the Contractor becomes insolvent, or is placed in the hands of a receiver, or has its right to do business in the state revoked, the Town may withhold payment of funds due Contractor until the Contractor has provided a bond or other security to the satisfaction of the Town in lieu of the bond so executed by such surety.

6. Application for Progress Payment:

- a. By the tenth of each month, Contractor shall submit to the Town for review and approval, an application for payment fully completed and signed by Contractor covering the work completed through the last day of the billing period and accompanied by such supporting documentation as is required by this Contract.
- b. The Town shall consider the application for payment and if all requirements met shall remit payment to the Contractor within thirty (60) days following approval.
- c. Each subsequent application for payment shall include an affidavit of Contractor providing that all previous progress payments received on account of the work have been applied to discharge in full all of Contractor's obligations reflected in prior applications for payment. Notwithstanding the progress payments, it is the intent and purpose of the Town to withhold ten percent (10%) of payments to Contractor as retainage until the work under this Contract is completed satisfactorily and the work is finally accepted by the Town.

7. Project Manager: The Town's Project Manager, for the purposes of this Contract is the following: Tara Schoedinger, Jamestown Flood Recovery Manager or such other person as the Town may designate in writing.

8. Compliance and Licensing:

- a. Contractor shall be responsible for providing any measures necessary for insuring the safety of the public during the performance of the work, such as barricading and traffic control, in accordance with the requirements of the Town.

- b. Contractor shall be responsible for obtaining and complying with all necessary permits, ordinances, and laws, including but not limited to grading permits and laws concerning the control of fugitive dust.
9. Contractor's Representations: In order to induce the Town to enter into this Contract, the Contractor makes the following representations:
- a. The Contractor has familiarized itself with the nature and the extent of this Contract and the work, locality, all physical characteristics of the area, including without limitation, improvements, soil conditions, drainage, topography, and all other features of the terrain, and with the local conditions and federal, state, and local laws, ordinances, rules, and regulations that in any manner may affect cost, progress, or performance of the work, or apply in any manner whatsoever to the work.
  - b. Contractor has carefully considered all physical conditions at the site and existing facilities affecting cost, progress, or performance of the work.
10. Extension of Contract Term:
- a. The Town, in its sole discretion, may elect to extend the term of this Contract. In the event the Town elects to exercise this right, it shall send written notice to Contractor, pursuant to paragraph 27, of its intent to extend the term of the Contract. The notice shall set forth the length of the extension.
  - b. All of the provisions of this Contract shall remain in full force and effect during any extension except that the scope of services and compensation to be paid to Contractor during any extension shall be mutually agreed upon prior to the commencement of any extension or renewed term. The agreed upon scope of services and compensation shall be reduced to writing, signed by both parties, and attached to this Contract.
  - c. **TEN CALENDAR DAYS BEFORE THE COMMENCEMENT OF ANY EXTENDED TERM THE CONTRACTOR SHALL SUBMIT TO THE TOWN PROOF OF INSURANCE AS REQUIRED IN PARAGRAPH 17.**
  - d. Should the parties fail to agree upon the scope of services or compensation to be paid to Contractor for any extension, or should Contractor fail to submit the required documents within the time period specified in paragraph 17(d), then this Contract shall terminate at the end of the then current term and no extension of the term of the Contract shall occur.
11. Quality of Performance: The Contractor shall perform the Contract in a manner satisfactory and acceptable to the Town. The Town shall be the sole judge of the quality of performance. Contractor agrees to furnish efficient superintendence and to use its best efforts to furnish at all times an adequate supply of workers and materials, and to perform the Work in the best way and in the most expeditious and economical manner consistent with the interests of the Town.

12. Schedule of Work: The Contractor shall perform the Work during the hours designated by the Town so as to avoid inconvenience to the Town and its personnel and interference with the Town's operations.
13. Observation of All Laws. It is assumed that Contractor is familiar with all laws, codes, ordinances, and regulations which in any manner affect those engaged or employed in the Work or the material or equipment used in or upon the site, or in any way affect the Work. No pleas or claims of misunderstanding or ignorance by Contractor shall in any way serve to modify the provisions of the Contract. Contractor shall at all times observe and comply with all federal, state, county, local, and municipal laws, codes, ordinances, and regulations in any manner affecting the conduct of the Work.
14. Contractor's Responsibility for Work. Until the final acceptance of the Work by the Town in writing, Contractor shall have the charge and care thereof, and shall take every necessary precaution against injury or damage to any part thereof by the effects of the elements or from any other cause. Contractor, at its own expense, shall rebuild, repair, restore, and correct all injuries or damages to any portion of the Work occasioned by any causes before its completion and acceptance. In case of suspension of Work from any cause whatsoever, Contractor shall be responsible for all materials and shall properly store same, if necessary, and shall provide suitable drainage, barricades, and warning signs where necessary. Contractor shall correct or replace, at its own expense and as required by Town, any material which may be destroyed, lost, damaged, or in any way made useless for the purpose and use intended prior to final acceptance of the Work, or portions thereof. Contractor shall be relieved of the responsibilities provided in this paragraph upon final acceptance of the Work by Town, except no such relief shall apply to damages or injuries caused by or related to actions of Contractor or its subcontractors.
15. Termination of Contractor's Responsibility. The Work will be considered complete when all Work has been finished, the final inspection made, and the Work accepted by Town in writing, and all claims for payment of labor, materials, or services of any kind used in connection with the Work thereof have been paid or settled by Contractor or its surety. Contractor will then be released from further obligation except as set forth in any surety bond, and except as required in this Contract regarding the Contractor's guaranty of work.
16. Indemnity: The Contractor shall be liable and responsible for any and all damages to persons or property caused by or arising out of the actions, obligations, or omissions of the Contractor, its employees, agents, representatives or other persons acting under the Contractor's direction or control in performing or failing to perform the Work under this Contract. The Contractor will indemnify and hold harmless the Town, its elected and appointed officials, and its employees, agents and representatives (the "indemnified parties"), from any and all liability, claims, demands, actions, damages, losses, judgments, costs or expenses, including but not limited to attorneys' fees, which may be made or brought or which may result against any of the indemnified parties as a result or on account of the actions or omissions of the Contractor, its

employees, agents or representatives, or other persons acting under the Contractor's direction or control.

17. Insurance and Bonds

a. The Contractor shall not begin the Work until it has obtained all insurance required by this Section and such insurance has been approved by Town. The Contractor shall not allow any subcontractor to begin any efforts on the Work until all similar insurance required of the subcontractor has been obtained and approved. For the duration of this Contract, the Contractor must maintain the insurance coverage required in this Section. The Contractor agrees to procure and maintain, at its own cost, the following policy or policies of insurance. The Contractor shall not be relieved of any liability, claims, demands, or other obligations assumed pursuant to this Contract by reason of its failure to procure or maintain insurance, or by reason of its failure to procure or maintain insurance in sufficient amounts, durations, or types. Contractor shall procure and maintain, and shall cause each subcontractor of the Contractor to procure and maintain (or shall insure the activity of Contractor's subcontractors in Contractor's own policy with respect to), the minimum insurance coverages listed below. Such coverages shall be procured and maintained with forms and insurers acceptable to the Town. In the case of any claims-made policy, the necessary retroactive dates and extended reporting periods shall be procured to maintain such continuous coverage.

- (1) Workers' Compensation insurance to cover obligations imposed by the Workers' Compensation Act of Colorado and any other applicable laws for any employee engaged in the performance of Work under this contract.
- (2) Comprehensive General Liability insurance with minimum combined single limits of TWO MILLION DOLLARS (\$2,000,000) each occurrence and TWO MILLION DOLLARS (\$2,000,000) aggregate. The policy shall be applicable to all premises and operations. The policy shall include coverage for bodily injury, broad form property damage (including completed operations), personal injury (including coverage for contractual and employee acts), blanket contractual, independent contractors, products, and completed operations. The policy shall contain a severability of interests provision.
- (3) Comprehensive Automobile Liability insurance with minimum combined single limits for bodily injury and property damage of not less than THREE HUNDRED THOUSAND DOLLARS (\$300,000) each occurrence and NINE HUNDRED AND NINETY THOUSAND DOLLARS (\$990,000) aggregate with respect to each of Contractor's owned, hired and/or non-owned vehicles assigned to or used in performance of the Work. The policy shall contain a severability of interests provision.
- (4) Builder's Risk insurance with minimum limits of not less than the

insurable value of the Work to be performed under this contract at completion less the value of the materials and equipment insured under installation floater insurance. The policy shall be written in completed value form and shall protect the Contractor and the Town against risks of damage to buildings, structures, and materials and equipment not otherwise covered under Installation Floater insurance, from the perils of fire and lightning, the perils included in the standard coverage endorsement, and the perils of vandalism and malicious mischief. Equipment such as pumps, engine-generators, compressors, motors, switch-gear, transformers, panelboards, control equipment, and other similar equipment shall be insured under Installation Floater insurance when the aggregate value of the equipment exceeds \$10,000. The policy shall provide for losses to be payable to the Contractor and the Town as their interests may appear. The policy shall contain a provision that in the event of payment for any loss under the coverage provided, the insurance company shall have no rights of recovery against the Contractor or the Town.

(5) Installation Floater with minimum limits of not less than the insurable value of the Work to be performed under this contract at completion, less the value of the materials and equipment insured under Builder's Risk insurance. The value shall include the aggregate value of any Town-furnished equipment and materials to be erected or installed by the Contractor not otherwise insured under Builder's Risk insurance. The policy shall protect the Contractor and the Town from all insurable risks of physical loss or damage to materials and equipment not otherwise covered under Builder's Risk insurance, while in warehouses or storage areas, during installation, during testing, and after the work under this contract is completed. The policy shall be of the "all risks" type, with coverages designed for the circumstances which may occur in the particular work to be performed under this contract. The policy shall provide for losses to be payable to the Contractor and the Town as their interests may appear. The policy shall contain a provision that in the event of payment for any loss under the coverage provided, the insurance company shall have no rights of recovery against the Contractor or the Town.

b. The policies required above, except for the Workers' Compensation insurance, shall be endorsed to include the Town, and its officers and employees, as additional insureds. Every policy required above shall be primary insurance, and any insurance carried by the Town, its officers, or its employees, shall be excess and not contributory insurance to that provided by Contractor. The additional insured endorsement for the Comprehensive General Liability insurance required above shall not contain any exclusion for bodily injury or property damage arising from completed operations. The Contractor shall be solely responsible for any deductible losses under each of the policies required above.

c. Certificates of insurance shall be completed by the Contractor's insurance agent



as evidence that policies providing the required coverages, conditions, and minimum limits are in full force and effect, and shall be subject to review and approval by the Town. Each certificate shall identify the Work and shall provide that the coverages afforded under the policies shall not be cancelled, terminated or materially changed until at least 30 days prior written notice has been given to the Town. If the words "endeavor to" appear in the portion of the certificate addressing cancellation, those words shall be stricken from the certificate by the agent(s) completing the certificate. The Town reserves the right to request and receive a certified copy of any policy. Failure on the part of the Contractor to procure or maintain policies providing the required coverages, conditions, and minimum limits shall constitute a material breach of contract upon which the Town may immediately terminate the contract, or at its discretion may procure or renew any such policy or any extended reporting period thereto and may pay any and all premiums in connection therewith, and all monies so paid by the Town shall be repaid by Contractor to the Town upon demand, or the Town may offset the cost of the premiums against monies due to Contractor.

- d. The parties hereto understand and agree that the Town is relying on, and does not waive or intend to waive by any provision of this contract, the monetary limitations, or any other rights, immunities, and protections provided by the Colorado Governmental Immunity Act, § 24-10-101 et seq., 10 C.R.S., as from time to time amended, or otherwise available to the Town, its officers, or its employees.
  - e. Contractor shall furnish a performance bond, payment bond, and warranty bond in an amount equal to one hundred percent (100%) of the contract price, as security for the faithful performance and payment of all Contractor's obligations hereunder, including but not limited to the guaranty period provided in Section 20. These bonds shall remain in effect at least until one year after the date of final payment. All bonds shall be in forms acceptable to the Town and executed by such sureties licensed to conduct business in Colorado that are acceptable to the Town.
18. Evidence of Satisfaction of Liens. Contractor shall provide Town with written evidence that all persons who have done and portion of the Work or have furnished material under this Contract and are entitled to liens therefor under any laws of the State of Colorado have been fully paid or are not entitled to such liens. Final payment shall not be made to Contractor until the Town is reasonably satisfied that all claims or liens have been satisfied by Contractor or have been secured against as provided in C.R.S. section 38-26-101 et seq.
19. Acceptance of Work: No act of the Town, or of any representative thereof, either in superintending or directing the Work, or any extension of time for the completion of the Work, shall be regarded as an acceptance of such Work or any part thereof, or of materials used therein, either wholly or in part. Acceptance shall be evidenced only by the final certificate of Town. Before any final certificate shall be issued, Contractor shall execute an affidavit on the certificate that it accepts the same in full payment and settlement of all claims on account of Work done and materials furnished under this contract, and that all claims for materials provided or labor

performed have been paid or set aside in full. No waiver of any breach of this contract by Town or anyone acting on their behalf shall be held as a waiver of any other subsequent breach thereof. Any remedies provided herein shall be cumulative.

20. Guaranty of Work: Contractor agrees to guarantee all Work under this Contract for a period of two years from the date of final acceptance by the Town. If any unsatisfactory condition or damage develops within the time of this guaranty due to materials or workmanship that are defective, inferior, or not in accordance with the Contract, as reasonably determined by Town, then the Contractor shall, when notified by Town, immediately place such guaranteed Work in a condition satisfactory to Town. The Town shall have all available remedies to enforce such guaranty, except that Town shall not have any work performed independently to fulfill such guaranty and require Contractor to pay Town such sums as were expended by the Town for such work, unless the Town has first given notice to the Contractor of the deficiency and given the Contractor a reasonable opportunity to cure the same.
21. Timing of Change Orders: The Town shall use reasonable efforts to grant or deny change orders requested by the Contractor in as timely a manner as the Town Board schedule permits. Subject to the Resolution of the Jamestown Town Board of Trustees, the Project Manager is authorized to approve change orders of the Work as provided in Section 3. Contractor shall provide all supporting documentation for any requested change order prior to Town action thereon.
22. Nondiscrimination: The Contractor agrees to comply with the letter and spirit of the Colorado Anti-Discrimination Act, C.R.S. § 24-34-401, et seq., as amended, and all applicable local, state and federal laws respecting discrimination and unfair employment practices.
23. Nondiscrimination Provisions Binding on Subcontractors: In all solicitations by the Contractor for any Work related to this Contract to be performed under a subcontract, either by competitive bidding or negotiation, the Contractor shall notify each potential subcontractor of the Contractor's obligations under this Contract, and of all pertinent regulations relative to nondiscrimination and unfair employment practices.
24. Information and Reports: The Contractor will provide to authorized governmental representatives, including those of the Town, State and Federal Government, all information and reports which they may require for any purpose authorized by law. The Contractor will permit such authorized governmental representatives access to the Contractor's facilities, books, records, accounts, and any other relevant sources of information. Where any information required by any such authorized government representative is in the exclusive possession of a person other than the Contractor, then such Contractor shall so certify to the Town, and shall explain what efforts it has made to obtain the information.
25. Independent Contractor: The Parties recognize and agree that the Contractor is an

independent contractor for all purposes, both legal and practical, in performing services under this Contract, and that the Contractor and its agents and employees are not agents or employees of Jamestown for any purpose. As an independent contractor, the Contractor shall be responsible for employing and directing such personnel and agents as it requires to perform the services purchased under this Contract, shall exercise complete authority over its personnel and agents, and shall be fully responsible for their actions.

**Contractor acknowledges that it is not entitled to unemployment insurance benefits or workers' compensation benefits from Jamestown, its elected officials, agents, or any program administered or funded by Jamestown. Contractor shall be entitled to unemployment insurance or workers' compensation insurance only if unemployment compensation coverage or workers' compensation coverage is provided by Contractor, or some other entity that is not a party to this Contract. Contractor is obligated to pay federal and state income tax on any monies earned pursuant to this Contract.**

26. Notices: For purposes of the notices required to be provided under this Contract, all such notices shall be in writing, and shall be either sent by Certified U.S. Mail - Return Receipt Requested, or hand-delivered to the following representatives of the parties at the following addresses:

For the Town: Tara Schoedinger, Flood Recovery Manager  
Town of Jamestown  
P.O. Box 298  
Jamestown, CO 80455

For the Contractor:

In the event a notice is mailed pursuant to the provisions of this paragraph, the time periods shall commence to run on the day after the postmarked date of mailing.

27. Statutory Requirements: This Contract is subject to all statutory requirements that are or may become applicable to counties or political subdivisions of the State of Colorado generally. Without limiting the scope of this provision, the Contract is specifically subject to the following statutory requirement:

Contract payments may be withheld pursuant to C.R.S. § 38-26-107 if the Town receives a verified statement that the Contractor has not paid amounts due to any person who has supplied labor or materials for the project.

28. Amendments: This Contract may be altered, amended or repealed only on the mutual agreement of the Town and the Contractor by a duly executed written instrument.
29. Assignment: This Contract shall not be assigned or subcontracted by the Contractor

without the prior written consent of the Town, except as specifically identified in the bid submitted by the Contractor and accepted by the Town.

30. Benefit to Successors and Assigns: This Contract shall be binding upon the successors and assigns of the parties.
31. Governing Law: The laws of the State of Colorado shall govern the interpretation and enforcement of this Contract. Any litigation that may arise between the parties involving the interpretation or enforcement of the terms of this Contract shall be initiated and pursued by the parties in the Courts of the 20<sup>th</sup> Judicial District of the State of Colorado and the applicable Colorado Appellate Courts.
32. Breach: Any waiver of a breach of this Contract shall not be held to be a waiver of any other or subsequent breach of this Contract. All remedies afforded in this Contract shall be taken and construed as cumulative, that is, in addition to every other remedy provided herein or by law.
33. Termination of Prior Agreements: This Contract cancels and terminates, as of its effective date, all prior agreements between the parties relating to the services covered by this Contract, whether written or oral or partly written and partly oral.
34. Severability: If any provision of this Contract is found to be invalid, illegal or unenforceable, the validity and enforceability of the remaining provisions shall not in any way be affected or impaired thereby.
35. Third Party Beneficiary: The enforcement of the terms and conditions of this Contract and all rights of action relating to such enforcement shall be strictly reserved to the Town and the Contractor, and nothing contained in this Contract shall give or allow any claim or right of action whatsoever by any other or third person. It is the express intent of the parties to this Contract that any person receiving services or benefits under this Contract shall be deemed an incidental beneficiary only.
36. Governmental Immunity: Nothing in this agreement shall be construed in any way to be a waiver of the Town's immunity protection under the Colorado Governmental Immunity Act, C.R.S. § 24-10-101, et seq., as amended.
37. FEMA Addendum: Not used
38. CDBG-DR Addendum: Contractor shall comply with the provisions of the Colorado Development Block Grant – Disaster Recovery Grant Program Requirements for Procurement Contracts, attached hereto and incorporated herein by reference.
39. SAM Registration: Contractor shall submit evidence of current SAM registration.

40. Execution by Counterparts; Electronic Signatures: This Contract may be executed in two or more counterparts, each of which shall be deemed an original, but all of which shall constitute one and the same instrument. The Parties approve the use of electronic signatures for execution of this Contract. Only the following two forms of electronic signatures shall be permitted to bind the Parties to this Contract: (1) Electronic or facsimile delivery of a fully executed copy of a signature page; (2) The image of the signature of an authorized signer inserted onto PDF format documents. All use of electronic signatures shall be governed by the Uniform Electronic Transactions Act, C.R.S. §§ 24-71.3-101 to 121.

**IN WITNESS WHEREOF**, the parties hereto have set their hands and seals on (date)\_\_\_\_\_.

**TOWN OF JAMESTOWN  
STATE OF COLORADO**

**ATTEST:** \_\_\_\_\_

Town Clerk

(seal)

By: \_\_\_\_\_

Mayor, Town Board

**CONTRACTOR:**

**ATTEST:** \_\_\_\_\_

By: \_\_\_\_\_

Title: \_\_\_\_\_

By: \_\_\_\_\_

Title: \_\_\_\_\_

(If this Contract is executed on behalf of a corporation, it must be signed by an agent duly authorized by the corporation to execute such Contract, and if specified by the corporate by-laws, the corporate seal must be affixed to the Contract by the Secretary of the corporation or other authorized keeper of the corporate seal.)

**EXHIBIT A**

Project schedule provided by \_\_\_\_\_ at kick-off meeting in Jamestown

**Pre-Contract Certification in Compliance with C.R.S. Section 8-17.5-102(1)**

The undersigned hereby certifies as follows:

That at the time of providing this certification, the undersigned does not knowingly employ or contract with an illegal alien; and that the undersigned will participate in the E-Verify program or the Department program, as defined in C.R.S. § § 8-17.5-101(3.3) and 8-17.5-101(3.7), respectively, in order to confirm the employment eligibility of all employees who are newly hired for employment to perform under the public contract for services.

Proposer: \_\_\_\_\_

By: \_\_\_\_\_

Title: \_\_\_\_\_

Date: \_\_\_\_\_

Note: Registration for the E-Verify Program can be completed at:

<https://e-verify.uscis.gov/enroll/>

**JVFS Back-up Generator Design and Installation CDBG-DR INF-00064  
Bid No. James.045 - Bid Schedule**



# ADDENDUM TO CONTRACT



## CDBG-DR PUBLIC INFRASTRUCTURE PROGRAM REQUIRED PROCUREMENT AND CONTRACT DOCUMENTS

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### INSTRUCTION TO BCC PARTNERS AND SPECIAL DISTRICTS

This packet contains general conditions for use with procurement contract and subrecipient agreements that are funded in whole or in part by the U.S. Department of Housing and Urban Development (“HUD”) under Title I of the Housing and Community Development Act of 1974 (Pub. L. 93-383) as amended. This Boulder County Collaborative (BCC) Community Development Block Grant – Disaster Recovery (CDBG-DR) required bid and contract documents **must** be included as an attachment, expressly made a part of, and incorporated by reference.

This is a federally funded project. The contractor and subcontractors must comply with the Uniform Administrative Requirements, Cost Principles, and Audit Requirements for Federal Awards contained at 2 CFR Part 200. However, Federal Emergency Management Agency (FEMA) Match projects are required to comply with 44 CFR Part 13.36 instead of 2 CFR Part 200.

Minority and Women Owned Business Enterprises, Labor Surplus Area Firms, and Section 3 Business Concerns seeking bid opportunities under this project are encouraged to respond.

The Provision of this Agreement shall apply to subcontractors and their officers, agents and employees in all respects as if they were employees of the contractor. The contractor shall not be discharged from its obligations and liabilities, but shall be liable for all acts and negligence of subcontractors, and their officers, agents and employees, as if they were employees of the contractor.

#### FEDERAL REGISTER NOTICES

##### DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT

Federal Register Notices applicable to the use of CDBG-DR Funds are available on the HUD Web site at <https://www.hudexchange.info/cdbg-dr/cdbg-dr-laws-regulations-and-federal-register-notices>.

#### SECTION 3 NOTICE

HUD recently issued proposed amendments to the Section 3 regulations in 24 CFR Part 135. If HUD finalizes and promulgates the amendments to 24 CFR Part 135 during the term of this Agreement, the Contractor or Subrecipient will be required to adhere to the amended 24 CFR Part 135.

Boulder County Collaborative Community Development Block Grant Disaster Recovery (CDBG-DR) is an Equal Opportunity Employer and no otherwise qualified individual shall be subjected to discrimination on the basis of race, color, religion or religious affiliation, sex, familial status, age, genetics, disability, or national origin in any phase of employment.

**Enclosed is a set of documents related to compliance with Federal and local requirements concerning public infrastructure and facilities improvement projects under Boulder County Collaborative CDBG-DR.**

*Note: This document is to be used as a guide for contractors and subcontractors working on Boulder County Collaborative Community Development Block Grant Disaster Recovery projects. It is not verified to be all inclusive and the contractor is fully responsible for complying with all federal regulations applicable to the CDBG program.*

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## I. STANDARD CDBG CONTRACT PROVISIONS SUMMARY

1. Contracts other than small purchases shall contain administrative, contractual or legal remedies in instances where contractors violate or breach contract terms, and provide for such sanctions and penalties as may be appropriate.
2. All contracts in excess of \$10,000 shall contain suitable provision for termination for cause and for convenience by the grantee, including the manner by which it will be effected and the basis for settlement.
3. All construction contracts awarded in excess of \$10,000 by grantees and their contractors or subgrantees shall contain a provision requiring compliance with Executive Order 11246, entitled "Equal Employment Opportunity," as amended by Executive Order 11375, and as supplemented in Department of Labor regulations (41 CFR Part 60).
4. All contracts and subgrants for construction or repair shall include a provision for compliance with the Copeland "Anti-Kickback" Act (18 USC 874) as supplemented in Department of Labor regulations (29 CFR, Part 3).
5. All construction contracts in excess of \$2,000 must include a provision for compliance with the Davis-Bacon Act (40 USC 276a to a-7) as supplemented by Department of Labor regulations (29 CFR, Part 5).
6. Where applicable, all contracts awarded by grantees and subgrantees in excess of \$2,000 for construction contracts and in excess of \$2,500 for other contracts which involve the employment of mechanics or laborers shall include a provision for compliance with Section 103 and 107 of the Contract Work Hours and Safety Standards Act (40 USC 327-330) as supplemented by the Department of Labor regulations (29 CFR, Part 5).
7. The contract shall include notice of requirements and regulations pertaining to reporting and patent rights respect to any discovery or invention which arises or is developed in the course of or under such contract, and of grantor agency requirements and regulations pertaining to copyrights and rights in data.
8. All negotiated contracts awarded by grantees shall include a provision to the effect the grantee, subgrantee, the Comptroller General of the United States, or any of their duly authorized representatives, shall have access to any books, documents, papers, and records of the contractor which are directly pertinent to that specific contract, for the purpose of making audit, examination, excerpts, and transcriptions.
9. Grantees shall require contractors to maintain all required records for three years after grantees make final payments and all other pending matters are closed.
10. Contracts, subcontracts, and subgrants of amounts in excess of \$150,000 shall contain a provision which requires compliance with all applicable standards, orders, or requirements issued under Section 306 of the Clean Air Act (42 USC 1857(h)), Section 508 of the Clean Water Act (33 USC 1368), Executive Order 11738, and Environmental Protection Agency regulations (40 CFR, Part 15), which prohibit the use of non-exempt Federal contracts, grants, or loans of facilities included on the EPA List of Violating Facilities. The provision shall require reporting of violations to the grant agency and to the USEPA Assistance Administrator for Enforcement (EN-329).
11. Contracts shall recognize mandatory standards and policies relating to energy efficiency which are contained in the State energy conservation plan issued in compliance with the Energy Policy and Conservation Act (P.L. 94-163).

## II. APPLICABLE PROVISIONS CHECKLIST

Check all boxes that apply for this procurement/contract, then refer to applicable sections throughout this document.

### Type of Contract:

- Professional Services  Construction

### Solicitation Type:

- Small Purchase (under \$150,000 for CDBG-DR projects and \$100,000 for FEMA Match projects or more stringent local requirement)  
 Request for Proposals or Requests for Qualifications above the small purchase limit  
 Invitation for Bid above the small purchase limit

### Applicable Provisions:

- Administrative, Contract, or Legal Remedies (all contracts in excess of \$150,000)  
 Termination Clause (all contracts in excess of \$10,000)  
 Equal Employment Opportunity (all construction contracts in excess of \$10,000)  
 Davis Bacon Act (all construction contracts in excess of \$2,000 except for new construction, rehabilitation, demolition, or elevation of non-contiguous housing units or 8 or less contiguous housing units)  
 Contract Work Hours and Safety Standards Act (all contracts in excess of \$100,000 that employ mechanics or laborers)  
 Copeland Anti-Kickback Act (if Davis Bacon applies)  
 Rights to Inventions Clause (all contracts)  
 Clean Air Act and the Federal Water Pollution Control Act (all contracts in excess of \$150,000)  
 Debarment and Suspension (all contracts)  
 Byrd Anti-Lobbying Amendment (all contracts in excess of \$100,000)  
 Procurement of Recovered Materials (all contracts that procure in excess of \$10,000 of materials)  
 Section 3 Clause (all contracts in excess of \$100,000)  
 Energy Efficiency Clause (all contracts)

### Applicable Forms:

#### Forms to be Submitted WITH Contractor's Bid/Proposal

- MBE/WBE and Labor Surplus Area Procurement Clause  
 Form of Statement of Bidder's Qualifications (all bids/proposals)  
 Wage/Fringe Benefit Certification Form (only if Davis Bacon applies)  
 Report of Additional Classification and Rate (HUD 4230-A form) (only if Davis Bacon applies)  
 Bid Bond Certification (5% bond for construction bids over \$100,000)  
 Certificate of Corporate Principal (all bids/proposals)  
 Certification of Bidder Regarding Equal Employment Opportunity (construction bids over \$10,000)  
 Certification of Bidder Regarding Federal Labor Standards and Davis-Bacon Act (only if Davis Bacon applies)  
 Certification of Contractor/Subcontractor Regarding Section 3 and Segregated Facilities (only if Section 3 applies)  
 Certifications of Bidder Regarding Civil Rights (all bids/proposals)  
 Non-Collusion Affidavit of Prime Bidder (all bids/proposals)  
 Contractor/Subcontractor's Section 3 Plan (only if Section 3 applies)  
 Contractor/Subcontractor's Section 3 Tables A & B (only if Section 3 applies)

**Forms to be Submitted PRIOR TO Contract Award**

- Certification of Bidder Regarding Section 3 (only if Section 3 applies)
- Section 3 Certification for Business (only if Section 3 applies)
- Performance Bond (100% of contract award for all construction contracts over \$100,000)
- Payment Bond (100% of contract award for all construction contracts over \$100,000)

**Additional Forms for Use DURING Contract Term**

- Certified Payroll Form (only if Davis Bacon applies)
- Payroll Deduction Authorization Form (only if Davis Bacon applies)
- Other Deductions on Certified Payroll (only if Davis Bacon applies)
- Section 3 Monthly Compliance Form (only if Section 3 applies)
- Employee Data and Certification Form (only if Section 3 applies)
- Section 3 Posted Notice to Project Residents (only if Section 3 applies)
- Required Jobsite Posters
  - Applicable Wage Determination (only if Davis Bacon applies)
  - Equal Employment Opportunity (construction contracts over \$10,000)
  - Employee Rights Under the Davis-Bacon Act (only if Davis-Bacon applies)

### III. FEDERAL CONTRACT PROVISIONS

#### SECTION 1 – GENERAL INFORMATION

##### CONFLICT OF INTEREST

*2 CFR 200.318 & 24 CFR 570.611*

In the procurement of supplies, equipment, construction and or services by recipients and subrecipients, any conflict of interest is prohibited. No persons who exercise or have exercised any functions or responsibilities with respect to CDBG activities assisted under this part or who are in a position to participate in a decision making process or gain inside information with regard to such activities, may obtain a financial interest or benefit from a CDBG-assisted activity, or have a financial interest in any contract, subcontract, or agreement with respect to a CDBG-assisted activity, or with respect to the proceeds of the CDBG-assisted activity, either for themselves or those with whom they have business or immediate family ties, during their tenure or for one year thereafter.

##### CODE OF CONDUCT

*2 CFR 200.317 & 2 CFR 200.318*

The recipient of CDBG grant funds shall maintain written standards of conduct governing the performance of employees engaged in the award and administration of contracts stating that no employee, officer, or agent shall participate in the selection, award, or administration of a contract supported by Federal funds if a real or apparent conflict of interest would be involved.

##### RECORD RETENTION

*2 CFR 200.333 & 24 CFR 570.506*

Financial records, supporting documents, statistical records and all other records pertinent to a grant shall be retained for a period of five years. If any litigation, claim, negotiation, audit or other action is started before the expiration of the five-year period, the records shall be retained until all litigations, claims or audit findings involving the records have been resolved. The retention period starts from the date of the submission of the final expenditure report or, from the date of the submission of the annual financial status report covering the last expenditure of grant funds for that year.

##### ACCESS TO RECORDS

*2 CFR 200.336*

The awarding agency and the Comptroller General of the United States, or any of their authorized representatives, shall have the right of access to any pertinent books, documents, papers or other records which are pertinent to the grant in order to make audits, examinations, excerpts and transcripts. The right of access in this section must not be limited to the required retention period but shall last as long as the records are retained.

##### CERTIFICATION REGARDING USE OF CONTRACT FUNDS FOR LOBBYING

(2 CFR 200.326. Applicable to all Federal-aid construction contracts and to all related subcontracts which exceed \$100,000 – 49 CFR 20)

The prospective participant certifies, by signing and submitting this bid or proposal, to the best of his or her knowledge and belief that:

No Federal appropriated funds have been paid or will be paid, by or on behalf of the undersigned, to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any Federal agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with this Federal contract, grant, loan, or cooperative agreement, the undersigned shall complete and submit Standard Form–LLL, “Disclosure Form to Report Lobbying”, in accordance with its instructions.

This certification is a material representation of fact upon which reliance was placed with this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by 311352. Any person who fails to file the required certification shall be subject to a civil penalty of not less than \$10,000 and not more than \$100,000 for each such failure.



The prospective participant also agrees by submitting his or her bid or proposal that he or she shall require that the language of this certification be included in all lower tier subcontracts, which exceed \$100,000, and that all such recipients shall certify and disclose accordingly.

## RIGHTS TO INVENTIONS MADE BY NONPROFIT ORGANIZATIONS AND SMALL BUSINESS FIRMS UNDER GOVERNMENT GRANTS, CONTRACTS, AND COOPERATIVE AGREEMENTS

*2 CFR 200.326 & 37 CFR 401*

For any funding agreement (contract, grant, or cooperative agreement entered into between any Federal agency, other than the Tennessee Valley Authority) awarded to a small business firm (defined at 15 U.S.C. 632 and 13 CFR 121.5) or nonprofit organization (except those subject to 35 U.S.C. 212) for the performance of experimental, developmental, or research work funded in whole or in part by the Federal government, the standard clause at 37 CFR 401.14 or the alternative provisions at 37 CFR 401.03 apply.

## CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION PRIMARY COVERED TRANSACTIONS

*(2 CFR 200.213 & 2 CFR 200.326. Applicable to all Federal-aid contracts 49 CFR 29)*

By signing and submitting this proposal, the prospective primary participant is providing the certification set out below. The inability of a person to provide the certification set out below will not necessarily result in denial of participation in this covered transaction. The prospective participant shall submit an explanation of why it cannot provide the certification set out below. The certification or explanation will be considered in connection with the department or agency's determination whether to enter into this transaction. However, failure of the prospective primary participant to furnish a certification or an explanation shall disqualify such a person from participation in this transaction.

The certification in this clause is a material representation of fact upon which reliance was placed when the department or agency determined to enter into this transaction. If it is later determined that the prospective primary participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

The prospective primary participant shall provide immediate written notice to the department or agency to which this proposal is submitted if any time the prospective primary participant learns that its certification was erroneous when submitted or has become erroneous by reason of changed circumstances.

The terms "covered transaction", "debarred", "suspended", "ineligible", "lower tier covered transaction", "participant", "person", "primary covered transaction," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the department or agency to which this proposal is submitted for assistance in obtaining a copy of those regulations.

The prospective primary participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency entering into this transaction.

The prospective primary participant further agrees by submitting this proposal that it will include the clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," provided by the department or agency entering into this covered transaction, without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the non-procurement portion of the "Lists of Parties Excluded from Federal Procurement or Non-procurement Programs" (Non-procurement List) which is compiled by the General Services Administration.

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

If a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency may terminate this transaction for cause or default.

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

Are not presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from covered transactions by any Federal department or agency;

Have not within a 3-year period preceding this proposal been convicted of or had a civil judgment rendered against them for commission of fraud or a criminal offense in connection with obtaining, attempting to obtain, or performing a public (Federal, State or local) transaction or contract under a public transaction; violation of Federal or State antitrust statutes or commission of embezzlement, theft, forgery, bribery, falsification or destruction of records, making false statement, or receiving stolen property.

Are not presently indicted for or otherwise criminally or civilly charged by a governmental entity (Federal, State or local) with commission of any of the offenses enumerated in this certification; and have not within a 3-year period preceding this application proposal had one or more public transactions (Federal, State or local) terminated for cause or default.

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

#### CERTIFICATION REGARDING DEBARMENT, SUSPENSION, INELIGIBILITY AND VOLUNTARY EXCLUSION APPLICABLE TO ALL SUBCONTRACTS, PURCHASE ORDERS AND OTHER LOWER TIER TRANSACTIONS OF \$25,000 OR MORE

*2 CFR 200.213 & 2 CFR 200.326*

By signing and submitting this proposal, the prospective lower tier is providing the certification set out below.

The certification in this clause is a material representation of fact upon which reliance was placed when this transaction was entered into. If it is later determined that the prospective lower tier participant knowingly rendered an erroneous certification, in addition to other remedies available to the Federal Government, the department, or agency with which this transaction originated may pursue available remedies, including suspension and or debarment.

The prospective lower tier participant shall provide immediate written notice to the person to which this proposal is submitted if at any time the prospective lower tier participant learns that its certification was erroneous by reason of changed circumstances.

The terms "covered transaction," "debarred," "suspended," "ineligible," "primary covered transaction," "participant," "person," "principal," "proposal," and "voluntarily excluded," as used in this clause, have the meanings set out in the Definitions and Coverage sections of rules implementing Executive Order 12549. You may contact the person to which this proposal is submitted for assistance in obtaining a copy of those regulations. The prospective lower tier participant agrees by submitting this proposal that, should the proposed covered transaction be entered into, it shall not knowingly enter into any lower tier covered transaction with a person who is debarred, suspended, declared ineligible, or voluntarily excluded from participation in this covered transaction, unless authorized by the department or agency with which this transaction originated.

The prospective lower tier participant further agrees by submitting this proposal that it will include this clause titled "Certification Regarding Debarment, Suspension, Ineligibility and Voluntary Exclusion-Lower Tier Covered Transaction," without modification, in all lower tier covered transactions and in all solicitations for lower tier covered transactions.

A participant in a covered transaction may rely upon a certification of a prospective participant in a lower tier covered transaction that is not debarred, suspended, ineligible, or voluntarily excluded from the covered transaction, unless it knows that the certification is erroneous. A participant may decide the method and frequency by which it determines the eligibility of its principals. Each participant may, but is not required to, check the Non procurement List.

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

If a participant in a covered transaction knowingly enters into a lower tier covered transaction with a person who is suspended, debarred, ineligible, or voluntarily excluded from participation in this transaction, in addition to other remedies available to the Federal Government, the department or agency with which this transaction originated may pursue available remedies, including suspension and or debarment.

The prospective lower tier participant certifies, by submission of this proposal, that neither it nor its principals is presently debarred, suspended, proposed for debarment, declared ineligible, or voluntarily excluded from participation in this transaction by any Federal department or agency.

Where the prospective lower tier participant is unable to certify to any of the statements in this certification, such prospective participant shall attach an explanation to this proposal.

## OTHER PROVISIONS

Any and all contractors, subcontractors, independent contractors, suppliers, facilitators or any person participating in any program or activity receiving federal financial assistance shall:

- a. Prohibit discrimination based on race, color or national origin under Title VI of the Civil Rights Act of 1964;
- b. Prohibit discrimination on the basis of sex under Title VII of the Civil Rights Act of 1964 and amended by the Equal Employment Opportunity Act of 1972;
- c. Prohibit discrimination on the basis of age under the Age Discrimination Act of 1975;
- d. Prohibit discrimination on the basis of disability under Section 504 of the Rehabilitation Act of 1973;
- e. Take affirmative action to employ and advance qualified disabled people under Section 503 of the Rehabilitation Act of 1973
- f. Promote and insure equal opportunity for all persons, without regard to race, color, religion, sex, or national origin under Executive Order 11246 as Amended;
- g. Display posters which summarize the Federal laws prohibiting job discrimination based on race, color, sex, national origin, religion, age, equal pay and disability;
- h. Prohibit discrimination based on disability under the Americans with Disabilities Act of 1990;
- i. Assure that all buildings assigned for public use be designed, constructed and altered so as to be accessible to and usable by persons with physical disabilities under the Architectural Barriers Act of 1968; and
- j. Avoid maintaining or providing any segregated facilities.

Any and all contractors, subcontractors, independent contractors, suppliers, facilitators or any person participating in any program or activity receiving federal financial assistance shall:

- a) Comply with the provisions for the elimination of Lead- Based paint hazards under 24 CFR Part 35;
- b) Take all necessary precautions to guard against damages to property and injury to persons.

## SECTION 2 – EQUAL EMPLOYMENT OPPORTUNITY PROVISIONS

### NONDISCRIMINATION

(Applicable to all Federal–aid construction contracts and to all related subcontracts of \$10,000 or more)

Equal employment opportunity (EEO) requirements not to discriminate and to take affirmative action to assure equal opportunity as set forth under laws, executive orders, rules, regulations (28 CFR 35, 29 CFR 1630 and 41 CFR 60) and orders of the Secretary of Labor as modified by the provisions prescribed herein, and imposed pursuant to 23 U.S.C. 140 shall constitute the EEO and specific affirmative action standards for the contractor’s project activities under this contract.

The Equal Opportunity Construction Contractor Specifications set forth under 41 CFR 60–4.3 and the provisions of the American Disabilities Act of 1990 (42 U.S.D. 12101 et seq.) set forth under 28 CFR 35 and 29 CFR 1630 are incorporated by reference in this contract. In the execution of this contract, the contractor agrees to comply with the following minimum specific requirement activities of EEO.

The contractor will work with the awarding agency and the Federal Government in carrying out EEO obligations and in their review of his or her activities under the contract.

The contractor will accept as his operating policy the following statement:

“It is the policy of this Company to assure that applicants are employed, and that employees are treated during employment, without regard to their race, religion, sex, color, national origin, age or disability. Such action shall include: employment, upgrading, demotion, or transfer, recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship, pre–apprenticeship, and for on–the–job training.”

### EEO OFFICER

The contractor will designate and make known to the awarding agency an EEO Officer who will have the responsibility for and must be capable of effectively administering and promoting an active contractor program of EEO and who must be assigned adequate authority and responsibility to do so.

### DISSEMINATION OF POLICY

All members of the contractor’s staff who are authorized to hire, supervise, promote, and discharge employees, or who recommend such action, or who are substantially involved in such action, will be made fully cognizant of, and will implement, the contractor’s EEO policy and contractual responsibilities to provide EEO in each grade and classification of employment. To ensure that the above agreement will be met, the following actions will be taken as a minimum:

- a) Periodic meetings of supervisory and personnel office employees will be conducted before the start of work and then not less often than once every six months, at which time the contractor’s EEO policy and its implementation will be reviewed and explained. The meetings will be conducted by the EEO officer.
- b) All new supervisory or personnel office employees will be given a thorough indoctrination by the EEO Officer, covering all major aspects of the contractor’s EEO obligations within thirty days following their reporting for duty with the contractor.
- c) All personnel who are engaged in direct recruitment for the project will be instructed by the EEO Officer in the contractor’s procedures for locating and hiring minority employees.

Notices and posters identifying the contractor’s EEO policy will be placed in areas readily accessible to employees, applicants for employment and potential employees.

The contractor’s EEO policy and the procedures to implement such policy will be brought to the attention of employees by means of meetings, employee handbooks, or other appropriate means.

### RECRUITMENT OF EMPLOYEES

When advertising for employees, the contractor will include in all advertisements for employees the notation: “An Equal Opportunity Employer.” All such advertisements will be placed in publications having a large circulation among minority groups in the area from which the project work force would normally be derived.

The contractor will, unless precluded by a valid bargaining agreement, conduct systematic and direct recruitment through public and private employee referral sources likely to yield qualified minority group applicants. To meet this requirement, the contractor

will identify sources of potential minority group employees, and establish with such identified sources procedures whereby minority group applicants may be referred to the contractor for employment consideration.

In the event the contractor has a valid bargaining agreement providing for exclusive hall referrals, he is expected to observe the provisions of that agreement to the extent that the system permits the contractor's compliance with EEO contract provisions. (The DOL has held that where implementations of such agreements have the effect of discriminating against minorities or women, or obligates the contractor to do the same, such implementation violates Executive Order 11246, as amended.)

The contractor will encourage his present employees to refer minority group applicants for employment. Information and procedures with regard to referring minority group applicants will be discussed with employees.

## SELECTION OF SUBCONTRACTORS, PROCUREMENT OF MATERIALS AND LEASING OF EQUIPMENT

The contractor shall not discriminate on the grounds of race, color, religion, sex, national origin, age or disability in the selection and retention of subcontractors, including procurement of materials and leases of equipment.

The contractor shall notify all potential subcontractors and suppliers of his or her EEO obligations under this contract.

Disadvantaged business enterprises (DBE) as defined in 49 CFR 23, shall have equal opportunity to compete for and perform subcontracts which the contractor enters into pursuant to this contract. The contractor will use his best efforts to solicit bids from and to utilize DBE subcontractors or subcontractors with meaningful minority group and female representation among their employees.

The contractor will use his best efforts to ensure subcontractor compliance with their EEO obligations.

## EEO RECORDS AND REPORTS

The contractor shall keep such records as necessary to document compliance with the EEO requirements. Such records shall be retained for a period of three years following completion of the contract work and shall be available at reasonable times and places for inspection by authorized representatives. The records kept by the contractor shall document the following:

- a) The number of minority and non-minority group members and women employed in each work classification on the project; The progress and efforts being made in cooperation with unions, when applicable, to increase employment opportunities for minorities and women;
- b) The progress and efforts being made in locating, hiring, training, qualifying, and upgrading minority and female employees; and
- c) The progress and efforts being made in securing the services of DBE subcontractors or subcontractors with meaningful minority and female representation among their employees.

## NONSEGREGATED FACILITIES

Applicable to all Federal-aid construction contracts and to all related subcontracts of \$10,000 or more.

By the execution of this contract or subcontract, or the consummation of this material supply agreement or purchase order, all parties certify that the firm does not maintain or provide for its employees any segregated facilities at any of its establishments, and that the firm does not permit its employees to perform their services at any location under its control, where segregated facilities are maintained. The contractor agrees that a breach of this certification is a violation of the EEO provisions of this contract. The contractor further certifies that no employee will be denied access to adequate facilities on the basis of sex or disability.

As used in this certification, the term "segregated facilities" refers to facilities provided for employees which are segregated by explicit directive, or on the basis of race, color, religion, national origin, age or disability, because of habit, local custom, or otherwise. The only exception will be for the disabled when the demands for accessibility override, (e.g. disabled parking).

The contractor agrees that it has obtained or will obtain identical certification from proposed subcontractors or material suppliers prior to award of subcontracts or consummation of material supply agreements of \$10,000 or more and that it will retain such certifications in its files.

## FALSIFICATION OF DOCUMENTS

The falsification of any of the above certifications may subject the contractor to civil or criminal prosecution under 18 U.S.C. 1001 and 31 U.S.C. 231.

The contractor or subcontractor shall make the records required available for inspection, copying, or transcription by authorized representatives of the awarding agency or the DOL, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, the awarding agency, HUD or DOL, or all may, after written notice to the contractor, sponsor, applicant, or owner, take such actions as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds of debarment action pursuant to 29 CRF5.12.

### SECTION 3

The purpose of Section 3 requires that recipients of HUD funds and their contractors and subcontractors provide jobs and other economic opportunities to low-income persons. The CDBG project service area for Section 3 compliance will be the nonmetropolitan county.

Contractors and subcontractors participating in federally-assisted projects are required to track and report their activity relative to the hiring and training of low and moderate income persons and the use of local businesses owned by low-income persons. This information must be reported by all contractors and subcontractors prior to project completion utilizing the "Section 3: Economic Opportunities for Low and Very Low Income Persons" form.

All Section 3 covered contracts shall include the following Section 3 clause:

"The work to be performed under this contract is subject to the requirements of Section 3 of the Housing and Urban Development Act of 1968, as amended, 12 U.S.C. 1701u (Section 3). The parties to this contract agree to comply with this Section and certify that they are under no contractual or other impediment that would prevent them from complying with these regulations. The contractor agrees to notify each labor organization or representative workers with which the contractor has a collective bargaining agreement of the contractor's commitments under this Section 3 clause and include this clause in every subcontract subject to compliance with the Section 3 regulations. The contractor will certify that any vacant employment positions, including training positions, that are filled after the contractor is selected but before the contract is executed with persons other than those to whom the regulations of 24 CFR Part 135 require employment opportunities to be directed, were not filled to circumvent the contractor's obligations under this section of the Code of Federal Regulations. Noncompliance with HUD's regulations in this Part may result in sanctions, termination of this contract for default, and debarment or suspension from future HUD assisted contracts."

### OFFICE OF FEDERAL CONTRACT COMPLIANCE (OFCCP)

For federally assisted construction contracts, the OFCCP administers and enforces Executive Order 11246, as amended. This Order prohibits discrimination and requires affirmative action to ensure equal employment opportunity without regard to race, color, sex, religion and/or national origin; and the implementing regulations at 41 CFR Parts 60-1 through 60-50. Generally, all contractors and subcontractors holding non-exempt federally assisted construction contracts and subcontracts exceeding \$10,000 must comply with Executive Order 11246.

A "Notice of Requirement for Affirmative Action to Ensure Equal Employment Opportunity" (Executive Order 11246) is to be included in the bid solicitations for all federally assisted construction contracts and subcontracts in excess of \$10,000. The Notice, which is published at 41 CFR 60-4.2, informs the contractor bidder of the affirmative action requirements imposed under Executive Order 11246, including the specified goals for minority and female participation.

Covered federally assisted construction contracts and subcontracts must incorporate the equal opportunity clause found at 41 CFR 60-1.4 (b).

The equal opportunity clause may be expressly included in each contract or subcontract or incorporated by reference. Importantly, the equal opportunity clauses are deemed to be a part of every covered construction contract and subcontract even if they are not physically incorporated in the contract documents.

In addition to the equal opportunity clauses, federally assisted construction contracts and subcontracts in excess of \$10,000 must include the "Standard Federal Equal Employment Opportunity Construction Contract Specifications" which are found at 41 CFR 60-4.3. The specifications describe the affirmative action obligations and set forth the specific affirmative action steps the construction contractor must implement in order to make a good faith effort to achieve the goals for minority and female participation that were listed in the bid solicitation.

Additional information regarding OFCCP Compliance may be found at [www.dol.gov/esa/OFCCP](http://www.dol.gov/esa/OFCCP) or, at 1-800-397-6251. The Indiana office is located at 46 East Ohio Street, Suite 419, Indianapolis, IN 46204 and phone number is 317-226-5860.

## SECTION 3 – ENVIRONMENT

### CLEAN AIR ACT AND FEDERAL WATER POLLUTION CONTROL ACT

(2 CFR 200.326. Applicable to all Federally assisted construction contracts and to all related subcontracts of \$150,000 or more.)

By submission of this bid or the execution of this contract, or subcontract, as appropriate, the bidder, Federal-aid construction contractor, or subcontractor, as appropriate, will be deemed to have stipulated as follows:

That any facility that is or will be utilized in the performance of this contract, unless such contract is exempt under the Clean Air Act, as amended (42 U.S.C. 1857 et seq., as amended by Pub.L. 91-604), and under the Federal Water Pollution Control Act, as amended (33 U.S.C. 1251 et seq., as amended by Pub.L. 92-500), Executive Order 11738, and regulations in implementation thereof (40 CFR 15) is not listed, on the date of contract award, on the U.S. Environmental Protection Agency (EPA) List of Violating Facilities pursuant to 40 CFR 15.20.

That the firm agrees to comply and remain in compliance with all the requirements of Section 114 of the Clean Air Act and Section 308 of the Federal Water Pollution Control Act and all regulations and guidelines listed thereunder.

That the firm shall promptly notify the awarding agency of the receipt of any communication from the Director, Office of Federal Activities, EPA, indicating that a facility that is or will be utilized for the contract is under consideration to be listed on the EPA List of Violating Facilities.

That the firm agrees to include or cause to be included the requirements of this Section in every nonexempt subcontract, and further agrees to take such action as the government may direct as a means of enforcing such requirements.

### PROCUREMENT OF RECOVERED MATERIALS

2 CFR 200.322. State agencies and agencies of a political subdivision of a state that are using assistance under a Program NOFA for procurement, and any person contracting with such an agency with respect to work performed under an assisted contract, must comply with the requirements of Section 6002 of the Solid Waste Disposal Act. In accordance with Section 6002, these agencies and persons must procure items designated in guidelines of the Environmental Protection Agency (EPA) at 40 CFR part 247 that contain the highest percentage of recovered materials practicable, consistent with maintaining a satisfactory level of competition, where the purchase price of the item exceeds \$10,000 or the value of the quantity acquired in the preceding fiscal year exceeded \$10,000; must procure solid waste management services in a manner that maximizes energy and resource recovery; and must have established an affirmative procurement program for procurement of recovered materials identified in the EPA guidelines. Please refer to [www.epa.gov/osw/conserva/tools/cpg/pdf/rcra-6002.pdf](http://www.epa.gov/osw/conserva/tools/cpg/pdf/rcra-6002.pdf) for complete text and requirements of Section 6002.

### ENERGY EFFICIENCY

The Contractor agrees to comply with mandatory standards and policies relating to energy efficiency which are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (P.L. 94-163).

The Contractor agrees to include the above paragraph in each third party subcontract financed in whole or in part with Federal assistance. It is further agreed that the clause shall not be modified, except to identify the subcontractor who will be subject to its provisions.

## SECTION 4 – FEDERAL LABOR STANDARDS PROVISIONS (HUD FORM 4010)

### APPLICABILITY

The Project or Program to which the construction work covered by this contract pertains is being assisted by the United States of America and the following Federal Labor Standards Provisions are included in this Contract pursuant to the provisions applicable to such Federal assistance.

### PROVISIONS

## MINIMUM WAGES

**A. 1. (i) Minimum Wages.** All laborers and mechanics employed or working upon the site of the work, will be paid unconditionally and not less often than once a week, and without subsequent deduction or rebate on any account (except such payroll deductions as are permitted by regulations issued by the Secretary of Labor under the Copeland Act (29 CFR Part 3), the full amount of wages and bona fide fringe benefits (or cash equivalents thereof) due at time of payment computed at rates not less than those contained in the wage determination of the Secretary of Labor which is attached hereto and made a part hereof, regardless of any contractual relationship which may be alleged to exist between the contractor and such laborers and mechanics. Contributions made or costs reasonably anticipated for bona fide fringe benefits under Section I(b)(2) of the Davis-Bacon Act on behalf of laborers or mechanics are considered wages paid to such laborers or mechanics, subject to the provisions of 29 CFR 5.5(a)(1)(iv); also, regular contributions made or costs incurred for more than a weekly period (but not less often than quarterly) under plans, funds, or programs, which cover the particular weekly period, are deemed to be constructively made or incurred during such weekly period.

Such laborers and mechanics shall be paid the appropriate wage rate and fringe benefits on the wage determination for the classification of work actually performed, without regard to skill, except as provided in 29 CFR 5.5(a)(4). Laborers or mechanics performing work in more than one classification may be compensated at the rate specified for each classification for the time actually worked therein: Provided, that the employer's payroll records accurately set forth the time spent in each classification in which work is performed. The wage determination (including any additional classification and wage rates conformed under 29 CFR 5.5(a)(1)(ii) and the Davis-Bacon poster (WH-1321) shall be posted at all times by the contractor and its subcontractors at the site of the work in a prominent and accessible, place where it can be easily seen by the workers.

**(ii) (a)** Any class of laborers or mechanics which is not listed in the wage determination and which is to be employed under the contract shall be classified in conformance with the wage determination. HUD shall approve an additional classification and wage rate and fringe benefits therefor only when the following criteria have been met:

- (1)** The work to be performed by the classification requested is not performed by a classification in the wage determination; and
- (2)** The classification is utilized in the area by the construction industry; and
- (3)** The proposed wage rate, including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage determination.

**(b)** If the contractor and the laborers and mechanics to be employed in the classification (if known), or their representatives, and HUD or its designee agree on the classification and wage rate (including the amount designated for fringe benefits where appropriate), a report of the action taken shall be sent by HUD or its designee to the Administrator of the Wage and Hour Division, Employment Standards Administration, U.S. Department of Labor, Washington, D.C. 20210. The Administrator, or an authorized representative, will approve, modify, or disapprove every additional classification action within 30 days of receipt and so advise HUD or its designee or will notify HUD or its designee within the 30-day period that additional time is necessary. (Approved by the Office of Management and Budget under OMB control number 1215-0140.)

**(c)** In the event the contractor, the laborers or mechanics to be employed in the classification or their representatives, and HUD or its designee do not agree on the proposed classification and wage rate (including the amount designated for fringe benefits, where appropriate), HUD or its designee shall refer the questions, including the views of all interested parties and the recommendation of HUD or its designee, to the Administrator for determination. The Administrator, or an authorized representative, will issue a determination within 30 days of receipt and so advise HUD or its designee or will notify HUD or its designee within the 30-day period that additional time is necessary. (Approved by the Office of Management and Budget under OMB Control Number 1215-0140.)

**(d)** The wage rate (including fringe benefits where appropriate) determined pursuant to subparagraphs (1)(ii)(b) or (c) of this paragraph, shall be paid to all workers performing work in the classification under this contract from the first day on which work is performed in the classification.

**(iii)** Whenever the minimum wage rate prescribed in the contract for a class of laborers or mechanics includes a fringe benefit which is not expressed as an hourly rate, the contractor shall either pay the benefit as stated in the wage determination or shall pay another bona fide fringe benefit or an hourly cash equivalent thereof.

**(iv)** If the contractor does not make payments to a trustee or other third person, the contractor may consider as part of the wages of any laborer or mechanic the amount of any costs reasonably anticipated in providing bona fide fringe benefits under a plan or program, Provided, That the Secretary of Labor has found, upon the written request of the contractor, that the applicable standards of the Davis-Bacon Act have been met. The Secretary of Labor may require the contractor to set aside in a separate account assets for the meeting of obligations under the plan or program. (Approved by the Office of Management and Budget under OMB Control Number 1215-0140.)



## WITHHOLDING

**2. Withholding.** HUD or its designee shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld from the contractor under this contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to Davis-Bacon prevailing wage requirements, which is held by the same prime contractor so much of the accrued payments or advances as may be considered necessary to pay laborers and mechanics, including apprentices, trainees and helpers, employed by the contractor or any subcontractor the full amount of wages required by the contract. In the event of failure to pay any laborer or mechanic, including any apprentice, trainee or helper, employed or working on the site of the work, all or part of the wages required by the contract, HUD or its designee may, after written notice to the contractor, sponsor, applicant, or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds until such violations have ceased. HUD or its designee may, after written notice to the contractor, disburse such amounts withheld for and on account of the contractor or subcontractor to the respective employees to whom they are due. The Comptroller General shall make such disbursements in the case of direct Davis-Bacon Act contracts.

## PAYROLLS AND BASIC RECORDS

**3. (i) Payrolls and basic records.** Payrolls and basic records relating thereto shall be maintained by the contractor during the course of the work preserved for a period of three years thereafter for all laborers and mechanics working at the site of the work. Such records shall contain the name, address, and social security number of each such worker, his or her correct classification, hourly rates of wages paid (including rates of contributions or costs anticipated for bona fide fringe benefits or cash equivalents thereof of the types described in Section I(b)(2)(B) of the Davis-bacon Act), daily and weekly number of hours worked, deductions made and actual wages paid. Whenever the Secretary of Labor has found under 29 CFR 5.5 (a)(1)(iv) that the wages of any laborer or mechanic include the amount of any costs reasonably anticipated in providing benefits under a plan or program described in Section I(b)(2)(B) of the Davis-Bacon Act, the contractor shall maintain records which show that the commitment to provide such benefits is enforceable, that the plan or program is financially responsible, and that the plan or program has been communicated in writing to the laborers or mechanics affected, and records which show the costs anticipated or the actual cost incurred in providing such benefits. Contractors employing apprentices or trainees under approved programs shall maintain written evidence of the registration of apprenticeship programs and certification of trainee programs, the registration of the apprentices and trainees, and the ratios and wage rates prescribed in the applicable programs. (Approved by the Office of Management and Budget under OMB Control Numbers 1215-0140 and 1215-0017.)

**(ii) (a)** The contractor shall submit weekly for each week in which any contract work is performed a copy of all payrolls to HUD or its designee if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit the payrolls to the applicant sponsor, or owner, as the case may be, for transmission to HUD or its designee. The payrolls submitted shall set out accurately and completely all of the information required to be maintained under 29 CFR 5.5(a)(3)(i) except that full social security numbers and home addresses shall not be included on weekly transmittals. Instead the payrolls shall only need to include an individually identifying number for each employee (e.g., the last four digits of the employee's social security number). The required weekly payroll information may be submitted in any form desired. Optional Form WH-347 is available for this purpose from the Wage and Hour Division Web site at <http://www.dol.gov/esa/whd/forms/wh347instr.htm> or its successor site. The prime contractor is responsible for the submission of copies of payrolls by all subcontractors. Contractors and subcontractors shall maintain the full social security number and current address of each covered worker, and shall provide them upon request to HUD or its designee if the agency is a party to the contract, but if the agency is not such a party, the contractor will submit the payrolls to the applicant sponsor, or owner, as the case may be, for transmission to HUD or its designee, the contractor, or the Wage and Hour Division of the Department of Labor for purposes of an investigation or audit of compliance with prevailing wage requirements. It is not a violation of this subparagraph for a prime contractor to require a subcontractor to provide addresses and social security numbers to the prime contractor for its own records, without weekly submission to HUD or its designee. (Approved by the Office of Management and Budget under OMB Control Number 1215-0149.)

**(b)** Each payroll submitted shall be accompanied by a "Statement of Compliance," signed by the contractor or subcontractor or his or her agent who pays or supervises the payment of the persons employed under the contract and shall certify the following:

- (1)** That the payroll for the payroll period contains the information required to be provided under 29 CFR 5.5 (a)(3)(ii), the appropriate information is being maintained under 29 CFR 5.5(a)(3)(i), and that such information is correct and complete;
- (2)** That each laborer or mechanic (including each helper, apprentice, and trainee) employed on the contract during the payroll period has been paid the full weekly wages earned, without rebate, either directly or indirectly, and that no deductions have been made either directly or indirectly from the full wages earned, other than permissible deductions as set forth in 29 CFR Part 3;
- (3)** That each laborer or mechanic has been paid not less than the applicable wage rates and fringe benefits or cash equivalents for the classification of work performed, as specified in the applicable wage determination incorporated into the contract.

(c) The weekly submission of a properly executed certification set forth on the reverse side of Optional Form WH-347 shall satisfy the requirement for submission of the "Statement of Compliance" required by subparagraph A.3.(ii)(b).

(d) The falsification of any of the above certifications may subject the contractor or subcontractor to civil or criminal prosecution under Section 1001 of Title 18 and Section 231 of Title 31 of the United States Code.

(iii) The contractor or subcontractor shall make the records required under subparagraph A.3.(i) available for inspection, copying, or transcription by authorized representatives of HUD or its designee or the Department of Labor, and shall permit such representatives to interview employees during working hours on the job. If the contractor or subcontractor fails to submit the required records or to make them available, HUD or its designee may, after written notice to the contractor, sponsor, applicant or owner, take such action as may be necessary to cause the suspension of any further payment, advance, or guarantee of funds. Furthermore, failure to submit the required records upon request or to make such records available may be grounds for debarment action pursuant to 29 CFR 5.12.

## APPRENTICES AND TRAINEES

### 4. Apprentices and Trainees.

(i) **Apprentices.** Apprentices will be permitted to work at less than the predetermined rate for the work they performed when they are employed pursuant to and individually registered in a bona fide apprenticeship program registered with the U.S. Department of Labor, Employment and Training Administration, Office of Apprenticeship Training, Employer and Labor Services, or with a State Apprenticeship Agency recognized by the Office, or if a person is employed in his or her first 90 days of probationary employment as an apprentice in such an apprenticeship program, who is not individually registered in the program, but who has been certified by the Office of Apprenticeship Training, Employer and Labor Services or a State Apprenticeship Agency (where appropriate) to be eligible for probationary employment as an apprentice. The allowable ratio of apprentices to journeymen on the job site in any craft classification shall not be greater than the ratio permitted to the contractor as to the entire work force under the registered program. Any worker listed on a payroll at an apprentice wage rate, who is not registered or otherwise employed as stated above, shall be paid not less than the applicable wage rate on the wage determination for the classification of work actually performed. In addition, any apprentice performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. Where a contractor is performing construction on a project in a locality other than that in which its program is registered, the ratios and wage rates (expressed in percentages of the journeyman's hourly rate) specified in the contractor's or subcontractor's registered program shall be observed. Every apprentice must be paid at not less than the rate specified in the registered program for the apprentice's level of progress, expressed as a percentage of the journeymen hourly rate specified in the applicable wage determination. Apprentices shall be paid fringe benefits in accordance with the provisions of the apprenticeship program. If the apprenticeship program does not specify fringe benefits, apprentices must be paid the full amount of fringe benefits listed on the wage determination for the applicable classification. If the Administrator determines that a different practice prevails for the applicable apprentice classification, fringes shall be paid in accordance with that determination. In the event the Office of Apprenticeship Training, Employer and Labor Services, or a State Apprenticeship Agency recognized by the Office, withdraws approval of an apprenticeship program, the contractor will no longer be permitted to utilize apprentices at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(ii) **Trainees.** Except as provided in 29 CFR 5.16, trainees will not be permitted to work at less than the predetermined rate for the work performed unless they are employed pursuant to and individually registered in a program which has received prior approval, evidenced by formal certification by the U.S. Department of Labor, Employment and Training Administration. The ratio of trainees to journeymen on the job site shall not be greater than permitted under the plan approved by the Employment and Training Administration. Every trainee must be paid at not less than the rate specified in the approved program for the trainee's level of progress, expressed as a percentage of the journeyman hourly rate specified in the applicable wage determination. Trainees shall be paid fringe benefits in accordance with the provisions of the trainee program. If the trainee program does not mention fringe benefits, trainees shall be paid the full amount of fringe benefits listed on the wage determination unless the Administrator of the Wage and Hour Division determines that there is an apprenticeship program associated with the corresponding journeyman wage rate on the wage determination which provides for less than full fringe benefits for apprentices. Any employee listed on the payroll at a trainee rate who is not registered and participating in a training plan approved by the Employment and Training Administration shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In addition, any trainee performing work on the job site in excess of the ratio permitted under the registered program shall be paid not less than the applicable wage rate on the wage determination for the work actually performed. In the event the Employment and Training Administration withdraws approval of a training program, the contractor will no longer be permitted to utilize trainees at less than the applicable predetermined rate for the work performed until an acceptable program is approved.

(iii) **Equal employment opportunity.** The utilization of apprentices, trainees and journeymen under 29 CFR Part 5 shall be in conformity with the equal employment opportunity requirements of Executive Order 11246, as amended, and 29 CFR Part 30.

#### *COPELAND ANTI-KICKBACK ACT*

2 CFR 200.326

**5. Compliance with Copeland Act requirements.** The contractor shall comply with the requirements of 29 CFR Part 3 which are incorporated by reference in this contract

#### *SUBCONTRACTS*

**6. Subcontracts.** The contractor or subcontractor will insert in any subcontracts the clauses contained in subparagraphs 1 through 11 in this paragraph A and such other clauses as HUD or its designee may by appropriate instructions require, and a copy of the applicable prevailing wage decision, and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for the compliance by any subcontractor or lower tier subcontractor with all the contract clauses in this paragraph.

#### *CONTRACT TERMINATION; DEBARMENT*

2 CFR 200.213 & 2 CFR 200.326

**7. Contract termination; debarment.** A breach of the contract clauses in 29 CFR 5.5 may be grounds for termination of the contract and for debarment as a contractor and a subcontractor as provided in 29 CFR 5.12.

#### *COMPLIANCE WITH DAVIS BACON ACT AND RELATED ACT REQUIREMENTS*

**8. Compliance with Davis-Bacon and Related Act Requirements.** All rulings and interpretations of the Davis-Bacon and Related Acts contained in 29 CFR Parts 1, 3, and 5 are herein incorporated by reference in this contract.

#### *DISPUTES CONCERNING LABOR STANDARDS*

**9. Disputes concerning labor standards.** Disputes arising out of the labor standards provisions of this contract shall not be subject to the general disputes clause of this contract. Such disputes shall be resolved in accordance with the procedures of the Department of Labor set forth in 29 CFR Parts 5, 6, and 7. Disputes within the meaning of this clause include disputes between the contractor (or any of its subcontractors) and HUD or its designee, the U.S. Department of Labor, or the employees or their representatives.

#### *CERTIFICATION OF ELIGIBILITY*

**10. (i) Certification of Eligibility.** By entering into this contract the contractor certifies that neither it (nor he or she) nor any person or firm who has an interest in the contractor's firm is a person or firm ineligible to be awarded Government contracts by virtue of Section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1) or to be awarded HUD contracts or participate in HUD programs pursuant to 24 CFR Part 24.

(ii) No part of this contract shall be subcontracted to any person or firm ineligible for award of a Government contract by virtue of Section 3(a) of the Davis-Bacon Act or 29 CFR 5.12(a)(1) or to be awarded HUD contracts or participate in HUD programs pursuant to 24 CFR Part 24.

(iii) The penalty for making false statements is prescribed in the U.S. Criminal Code, 18 U.S.C. 1001. Additionally, U.S. Criminal Code, Section 1010, Title 18, U.S.C., "Federal Housing Administration transactions", provides in part: "Whoever, for the purpose of . . . influencing in any way the action of such Administration..... makes, utters or publishes any statement knowing the same to be false..... shall be fined not more than \$5,000 or imprisoned not more than two years, or both."

#### *COMPLAINTS, PROCEEDINGS, OR TESTIMONY BY EMPLOYEES*

**11. Complaints, Proceedings, or Testimony by Employees.** No laborer or mechanic to whom the wage, salary, or other labor standards provisions of this Contract are applicable shall be discharged or in any other manner discriminated against by the Contractor or any subcontractor because such employee has filed any complaint or instituted or caused to be instituted any proceeding or has testified or is about to testify in any proceeding under or relating to the labor standards applicable under this Contract to his employer.

#### *CONTRACT WORK HOURS AND SAFETY STANDARDS ACT*

2 CFR 200.326

**B. Contract Work Hours and Safety Standards Act.** The provisions of this paragraph B are applicable where the amount of the prime contract exceeds \$100,000. As used in this paragraph, the terms "laborers" and "mechanics" include watchmen and guards.

**(1) Overtime requirements.** No contractor or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic in any workweek in which the individual is employed on such work to work in excess of 40 hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and one-half times the basic rate of pay for all hours worked in excess of 40 hours in such workweek.

**(2) Violation; liability for unpaid wages; liquidated damages.** In the event of any violation of the clause set forth in subparagraph (1) of this paragraph, the contractor and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such contractor and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in subparagraph (1) of this paragraph, in the sum of \$10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of 40 hours without payment of the overtime wages required by the clause set forth in sub paragraph (1) of this paragraph.

**(3) Withholding for unpaid wages and liquidated damages.** HUD or its designee shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any moneys payable on account of work performed by the contractor or subcontractor under any such contract or any other Federal contract with the same prime contract, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act which is held by the same prime contractor such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in subparagraph (2) of this paragraph.

**(4) Subcontracts.** The contractor or subcontractor shall insert in any subcontracts the clauses set forth in subparagraph (1) through (4) of this paragraph and also a clause requiring the subcontractors to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in subparagraphs (1) through (4) of this paragraph.

## HEALTH AND SAFETY

**C. Health and Safety.** The provisions of this paragraph C are applicable where the amount of the prime contract exceeds \$100,000.

**(1)** No laborer or mechanic shall be required to work in surroundings or under working conditions which are unsanitary, hazardous, or dangerous to his health and safety as determined under construction safety and health standards promulgated by the Secretary of Labor by regulation.

**(2)** The Contractor shall comply with all regulations issued by the Secretary of Labor pursuant to Title 29 Part 1926 and failure to comply may result in imposition of sanctions pursuant to the Contract Work Hours and Safety Standards Act, (Public Law 91-54, 83 Stat 96). 40 USC 3701 et seq.

**(3)** The contractor shall include the provisions of this paragraph in every subcontract so that such provisions will be binding on each subcontractor. The contractor shall take such action with respect to any subcontractor as the Secretary of Housing and Urban Development or the Secretary of Labor shall direct as a means of enforcing such provisions.

## IV. SOLICITATION DOCUMENTS

The following sections contain documents to be included in the bid or proposal solicitation.

### DAVIS BACON ACT

#### **The Davis Bacon Act**

In Construction contracts involving an excess of \$2000, unless exclusively in connection with the demolition or rehabilitation of residential property containing fewer than 8 units, the Contractor shall pay and the Subrecipient shall cause its contractor to pay all laborers and mechanics at a rate not less than those determined by the Secretary of Labor to be prevailing for Boulder County, which rates are to be provided by the Agency. These wage rates are a federally mandated minimum only, and will be superseded by any State or County requirement mandating higher wage rates. The contractor also agrees to comply with Department of Labor Regulations pursuant to the Davis-Bacon Act found in 29 CFR Parts 1, 3, 5 and 7, which enforce statutory labor standards provisions.

#### **Project Wage Decision**

Davis-Bacon wage decisions are established by the DOL for various types of construction (e.g. heavy, highway) and apply specifically to Boulder County areas. The wage decisions are modified from time to time. For the latest wage decision rates, go to the US DOL wage decision website:

[\*Davis-Bacon Labor Standards Guide – \(Click to follow the link\)\*](#)

It is the responsibility of the sub-grantee to provide the proper wage decision and the administration and enforcement of the Federal labor standards provisions on contracts covered by Davis-Bacon requirements.

It is the responsibility of the contractor (prime or general contractor) to ensure full compliance of all employers (the contractor, subcontractors and any lower tier subcontractors) with the labor standards provisions applicable to the project.

If additional wage classifications are needed for this job and are not shown on the applicable wage decision, call the contract administrator for help with requesting an additional classification to be added/ approved.

### **ATTACH WAGE DECISION TO THE END OF THIS CONTRACT ADDENDUM**

NOTE: Sub-grantee or their engineers should monitor <http://wdol.gov> while the bid remains open to ensure that the wage determination hasn't changed. If the wage determination changes more than **10 days before** the bid opening date, the solicitation will need to be modified to reflect the new wage rate. The wage determination is valid for 90 days after bid opening. If the contract is not awarded within 90 days, the wage determination must be updated with any changes that have occurred during that period. If the contract is awarded within 90 days, the original wage determination becomes fixed for the life of the contract.

## SECTION 3 CLAUSE

### SECTION 3 CLAUSE (24 CFR Part 135.38)

***All section 3 covered contracts and subcontracts shall include the following clause (referred to as the Section 3 clause):***

A. The work to be performed under this contract is subject to the requirements of section 3 of the Housing and Urban Development Act of 1968, as amended, 12 U.S.C. 1701u (section 3). The purpose of section 3 is to ensure that employment and other economic opportunities generated by HUD assistance or HUD-assisted projects covered by section 3, shall, to the greatest extent feasible, be directed to low-and very low-income persons, particularly persons who are recipients of HUD assistance for housing.

B. The parties to this contract agree to comply with HUD's regulations in 24 CFR part 135, which implement section 3. As evidenced by their execution of this contract, the parties to this contract certify that they are under no contractual or other impediment that would prevent them from complying with the part 135 regulations.

C. The contractor agrees to send to each labor organization or representative of workers with which the contractor has a collective bargaining agreement or other understanding, if any, a notice advising the labor organization or workers' representative of the contractor's commitments under this section 3 clause, and will post copies of the notice in conspicuous places at the work site where both employees and applicants for training and employment positions can see the notice. The notice shall describe the section 3 preference, shall set forth minimum number and job titles subject to hire, availability of apprenticeship and training positions, the qualifications for each; and the name and location of the person(s) taking applications for each of the positions; and the anticipated date the work shall begin.

D. The contractor agrees to include this section 3 clause in every subcontract subject to compliance with regulations in 24 CFR part 135, and agrees to take appropriate action, as provided in an applicable provision of the subcontract or in this section 3 clause, upon a finding that the subcontractor is in violation of the regulations in 24 CFR part 135. The contractor will not subcontract with any subcontractor where the contractor has notice or knowledge that the subcontractor has been found in violation of the regulations in 24 CFR part 135.

E. The contractor will certify that any vacant employment positions, including training positions, that are filled (1) after the contractor is selected but before the contract is executed, and (2) with persons other than those to whom the regulations of 24 CFR part 135 require employment opportunities to be directed, were not filled to circumvent the contractor's obligations under 24 CFR part 135.

F. Noncompliance with HUD's regulations in 24 CFR part 135 may result in sanctions, termination of this contract for default, and debarment or suspension from future HUD assisted contracts.

G. With respect to work performed in connection with section 3 covered Indian housing assistance, section 7(b) of the Indian Self-Determination and Education Assistance Act (25 U.S.C. 450e) also applies to the work to be performed under this contract. Section 7(b) requires that to the greatest extent feasible (i) preference and opportunities for training and employment shall be given to Indians, and (ii) preference in the award of contracts and subcontracts shall be given to Indian organizations and Indian-owned Economic Enterprises. Parties to this contract that are subject to the provisions of section 3 and section 7(b) agree to comply with section 3 to the maximum extent feasible, but not in derogation of compliance with section.

The contractor agrees to submit, and shall cause its subcontractors to submit, monthly reports detailing the number or new employees hired, the number of new Section 3 employees hired, and any affirmative efforts made to direct hiring efforts to low and very-low income persons, particularly person who are recipients of HUD assistance for housing.

## SECTION 3 DEFINITIONS

### **“SECTION 3 RESIDENT” MEANS:**

1. A public housing resident who resides in the metropolitan area or non-metropolitan county in which the Section 3 covered assistance is expended and who is considered to be a low-to very low-income person; or
2. An individual who resides in the metropolitan area or Non-metropolitan County in which the Section 3 covered assistance is expended and who is considered to be a low-to very low-income person.

### **“NEW HIRE” MEANS:**

A person who is not on the contractor’s payroll at the time of selection for the Section 3 award.

### **SECTION 3 BUSINESS DEFINED**

A Section 3 Business concern is a business:

1. That is 51 % or more owned by a Section 3 Boulder County resident(s); or
2. Whose permanent, full-time employees include persons, at least 30 % of whom are currently Section 3 residents or within three years of the date of first employment with the business concern were Section 3 Boulder County residents; or
3. That provide evidence of a commitment to subcontract in excess of 25 % of the total dollar award of all subcontracts to be awarded to business concerns that meet the qualifications set forth in (1) or (2) above.

*A person seeking the training or employment preference; or a business seeking the preference provided by Section 3 bears the responsibility of providing evidence (if requested) that the person is eligible for that preference.*

## V. REQUIRED BID/PROPOSAL FORMS

***The following sections contain forms the Contractor must complete and submit with the bid or proposal.***



## PRIME CONTRACTOR'S MBE/WBE & LABOR SURPLUS AREA OUTREACH FORM

NOTICE: Must be completed and submitted WITH the bid or proposal

**The prime contractor, if subcontracts are to be let, is required to take the following affirmative steps to ensure that, whenever possible, subcontracts are awarded to small business firms, minority business firms, women's business enterprises, and labor surplus area firms. 2 CFR 200.321**

- (1) Place qualified small and minority businesses and women's business enterprises on solicitation lists;
- (2) Assure that small and minority businesses, and women's business enterprises are solicited whenever they are potential sources;
- (3) Divide total requirements, when economically feasible, into small tasks or quantities to permit maximum participation by small and minority business and women's business enterprises;
- (4) Establish delivery schedules when the requirements of the work permit, which will encourage participation by small and minority-owned businesses and women-owned business enterprises;
- (5) Use the services and assistance of the Small Business Administration and the Minority Business Development Agency Department of Commerce; and
- (6) Require the subcontractor, if further subcontracts are to be let, to take the affirmative steps in paragraphs (1) through (5).

Contractor should clearly document the communication and outreach to the certified business. Documentation may include mail logs, phone logs, or similar records documenting the use of the above identified sources of information about MBE/WBE firms, the efforts to contact them, and other efforts to meet the above requirements.

Firm	Date	Notes

The links below are to be used to solicit qualified small and minority business and women's business enterprises in the state of Colorado:

- [Diverse Business Directory](#) (Click to follow the link)
- [Colorado Unified Certification Program \(UCP\) Directory](#) (Click to follow the link)
- Request Colorado Office of Economic Development and International Trade (OEDIT) to post the solicitation: [oesedit.info@state.or.us](mailto:oesedit.info@state.or.us)

The U.S. Department of Labor maintains a current list of Labor Surplus Areas. *The 2017 Labor Surplus Areas (LSA) list produced by the U.S. Department of Labor does not include any LSAs within or near Boulder County, the nearest Colorado LSA is approximately 190 miles away. LSAs in Colorado include: Costilla County, Fremont County, Huerfano County, Rio Grande County, Saguache County, and City of Pueblo. (effective date of LSA list: 10/1/2016 – 9/30/2017). The best resource for outreach to these LSAs is through OEDIT since this organization maintains region-specific business resources.*

**NOTE:** The above links are not meant to be comprehensive. Contractors are encourage to use other available sources.



**FORM OF STATEMENT OF BIDDER'S QUALIFICATIONS**  
*NOTICE: Must be completed and submitted **WITH** the bid or proposal*

11. Remarks:

\_\_\_\_\_

13. The undersigned hereby authorizes and requests any person to furnish any information requested by \_\_\_\_\_ in verification of the recitals comprising this Statement of Bidder's Qualifications.

Date at \_\_\_\_\_ this \_\_\_\_\_ day of \_\_\_\_\_ 20 \_\_\_\_\_.

\_\_\_\_\_  
(Name of Bidder)

By: \_\_\_\_\_

STATE OF \_\_\_\_\_ )

COUNTY OF \_\_\_\_\_ )

\_\_\_\_\_, being duly sworn, deposes and says that they

are \_\_\_\_\_ of \_\_\_\_\_ and their answers to the

foregoing questions and all statements therein contained are true and correct.

\_\_\_\_\_  
(Name of Bidder)

Sworn to before me this: \_\_\_\_\_

Day of \_\_\_\_\_, 20 \_\_\_\_\_

\_\_\_\_\_  
NOTARY PUBLIC

My commission expires: \_\_\_\_\_

Title: \_\_\_\_\_

## WAGE/FRINGE BENEFIT CERTIFICATION FORM

NOTICE: Must be completed and submitted WITH the construction bid proposal (over \$2,000)

**Labor Standards Section**

**Form 6**

### Wage/Fringe Benefit Certification

(To be completed by contractor/subcontractors prior to contract award.)

GRANTEE:  GRANT:  PROJECT:

This is to certify that  plans to use the following classifications of workers on the above referenced project:

Classification	From Applicable Wage Decision			Base Wage to be paid by Contractor	Fringe Benefits to be provided by Contractor		Total Package to be paid by Contractor
	Base Wage Due	Fringe Benefits Due	Total Package Due		Benefit	Hourly Amount	

Certified by:  Title:  Date:

(Must be certified by Owner or Chief Financial Officer)

HUD FORM 4230A – REPORT OF ADDITIONAL CLASSIFICATION AND RATE  
 NOTICE: Due by Contractor **PRIOR TO** Contract Execution (applicable to Davis Bacon only)  
 Contractor to complete Sections 8-10.

<b>U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT REPORT OF ADDITIONAL CLASSIFICATION AND RATE</b>		<b>HUD FORM 4230A</b> OMB Approval Number 2501-0011 (Exp. 01/31/2010)
1. FROM (name and address of requesting agency) Colorado Department of Local Affairs	2. PROJECT NAME AND NUMBER  3. LOCATION OF PROJECT (City, County and State)	
4. BRIEF DESCRIPTION OF PROJECT	5. CHARACTER OF CONSTRUCTION <input type="checkbox"/> Building <input type="checkbox"/> Residential <input type="checkbox"/> Heavy <input type="checkbox"/> Other (specify) <input type="checkbox"/> Highway	
6. WAGE DECISION NO. (include modification number, if any)  <input type="checkbox"/> COPY ATTACHED		7. WAGE DECISION EFFECTIVE DATE
8. WORK CLASSIFICATION(S)	HOURLY WAGE RATES	
	BASIC WAGE	FRINGE BENEFIT(S) (if any)
9. PRIME CONTRACTOR (name, address)	10. SUBCONTRACTOR/EMPLOYER, IF APPLICABLE (name, address)	
<b>Check All That Apply:</b> <input type="checkbox"/> The work to be performed by the additional classification(s) is not performed by a classification in the applicable wage decision. <input type="checkbox"/> The proposed classification is utilized in the area by the construction industry. <input type="checkbox"/> The proposed wage rate(s), including any bona fide fringe benefits, bears a reasonable relationship to the wage rates contained in the wage decision. <input type="checkbox"/> The interested parties, including the employees or their authorized representatives, agree on the classification(s) and wage rate(s). <input type="checkbox"/> Supporting documentation attached, including applicable wage decision.		
<b>Check One:</b> <input type="checkbox"/> Approved, meets all criteria. DOL confirmation requested. <input type="checkbox"/> One or more classifications fail to meet all criteria as explained in agency referral. DOL decision requested.		
Agency Representative _____ Date _____ (Typed name and signature)  Phone Number _____		FOR HUD USE ONLY LR2000:  Log in:  Log Out:

## Report of Additional Classification and Wage Rate

U.S. Department of Housing and Urban Development Office of Labor Relations  
(Exp. 09/30/2006)

OMB Approval No. 2501-0011

Public reporting burden for this collection of information is estimated to average 1 hour per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining data needed, and completing and reviewing the collection of information. The information is considered non-sensitive and does not require special protection. This information is required to obtain benefits. This agency may not collect this information, and you are not required to complete this form, unless it displays a currently valid OMB control number.

Employers engaged on HUD-assisted construction projects subject to Davis-Bacon wage requirements must pay no less than the wages determined to be prevailing by the Secretary of Labor to all laborers and mechanics engaged on the construction work. On occasion, the applicable Davis-Bacon wage decision does not contain all of the work classifications and wage rates needed to complete the construction work. This information collection facilitates the addition of needed work classifications and wage rates for the construction work involved. This form is used by HUD and local agencies administering HUD programs to report employer request(s) for additional classification and wage rates so that an appropriate wage rate can be approved by the Department of Labor for the construction work. This information collection is required by Department of Labor regulations at 29 CFR 5.5. While no assurances of confidentiality are pledged to respondents, HUD generally discloses these data only in response to a Freedom of Information request.

Instructions:

### General:

Contractors/Employers: Do not need to complete this form. Submit a written, signed request to the responsible contracting agency naming the work classifications and the wage rates, including any fringe benefits that are proposed.

Local Agency Staff: Complete items 2 through 10. Submit one copy of this form to the DOLA CDBG Program Coordinator with a copy of the applicable Davis-Bacon wage decision and the written request from the employer naming the work classifications and wage rates that are proposed. (The employer's request must be made in writing and must be signed.)

1. For HUD or State CDBG Office use. Enter the name and address of HUD Office (or State CDBG office) submitting the report and to which the DOL reply should be sent.
2. Enter the name and number of the project or contract involved.
3. Enter the location of the project involved: city, county and state.
4. Describe the construction involved, e.g., new construction or rehabilitation, number and type of buildings, number of stories, number of units (as applicable). For example, New construction: 3 – 4-story buildings; 120 units.
5. Enter the character of construction as defined by DOL for Davis-Bacon prevailing wage rate purposes.
6. Enter the number of the Davis-Bacon wage decision applicable to the construction work. Include the number of wage decision modifications (if any) applicable to the work.
7. Enter the effective date of the wage decision for the project. (See DOL regulations at 29 CFR 1.6.)
8. Enter the work classifications and corresponding hourly basic wage rates and fringe benefit rates (if any) requested.
9. Self-explanatory.
10. If the requesting employer is not the prime contractor, enter the name and address of the subcontractor/employer making the request.

Remainder of Form: HUD Labor Relations/State CDBG use.

HUD Labor Relations/State CDBG Staff: Evaluate the employer's request against the criteria for approval (see DOL Regulations, 29 CFR Part 5, and related contract labor standards provisions). The criteria are reflected in "checklist" form to ensure that each factor is considered and to ensure that supporting documentation, including a copy of the applicable wage decision, is attached. Check the box next to each criterion that is met; do not check the box next to any criterion that is not met.

If the request meets all criteria, check the appropriate box, enter the name and telephone number of the HUD/State CDBG agency representative, and sign and date the form. Submit one copy of the completed form to the DOL with a copy of the applicable Davis-Bacon wage decision and the written request from the employer involved.

If the request fails to pass all criteria, check the appropriate box, enter agency contact information, and sign and date the form. Submit one copy of the completed form to the DOL with a copy of the applicable Davis-Bacon wage decision, the written request from the employer involved, and a cover letter explaining how the employer's request failed to meet one or more of the criteria.

### Submission of Report

Completed forms shall be sent to: Branch of Construction

**BID BOND CERTIFICATION**

NOTICE: Must be completed and submitted **WITH** the construction bid proposal  
(over \$100,000)

**KNOW ALL MEN BY THESE PRESENTS**, that we the undersigned, \_\_\_\_\_ as PRINCIPAL,  
AND \_\_\_\_\_, as SURETY are held and firmly bound unto  
\_\_\_\_\_ hereinafter called the Grantee/Local Public Agency in the penal  
sum of \_\_\_\_\_ Dollars, (\$ \_\_\_\_\_), lawful money of the United States, for the payment  
of which sum well and truly to be made, we bind ourselves, our heirs, executors, administrators, successors,  
and assigns, jointly and severally, firmly by these presents.

**THE CONDITION OF THIS OBLIGATION IS SUCH**, that whereas the PRINCIPAL has submitted the  
Accompanying Bid, dated \_\_\_\_\_, \_\_\_\_\_, for \_\_\_\_\_.

**NOW, THEREFORE**, if the PRINCIPAL shall not withdraw said Bid within the period specified therein after the  
opening of the same, or, if no period be specified, within thirty (30) days after the said opening, and shall  
within the period specified therefore, or if no period specified, within ten (10) days after the prescribed  
forms are presented to him for signature, enter into a written Contract with the Grantee/Local Public Agency  
in accordance with the Bid as accepted, and give bond with good and sufficient surety or sureties, as may  
be required, for the faithful performance and proper fulfillment of such contract; or in the event of the  
withdrawal of said Bid within the period specified, or the failure to enter into such Contract and give such  
bond within the time specified, if the Principal shall pay the Grantee/Local Public Agency the difference  
between the amount specified in said Bid and the amount for which the Grantee/Local Public Agency may  
procure the required work or supplies or both, if the latter be in excess of the former, then the above  
obligation shall be void and of no effect, otherwise to remain in full force and virtue.

**IN WITNESS WHEREOF**, the above-bounded parties have executed this instrument under their several seals  
this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, the name and corporate seal of each corporate  
party being hereto affixed and these present signed by its undersigned representative, pursuant to authority  
of its governing body.

1. Forms of Bid Bonds prepared to meet the requirements of local or State laws or the needs of the  
Grantee/Local Public Agency should be substituted for this form where necessary.

\_\_\_\_\_(SEAL)

\_\_\_\_\_(SEAL)

By: \_\_\_\_\_

CERTIFICATE OF CORPORATE PRINCIPAL

NOTICE: Must be completed and submitted **WITH** the bid or proposal

I, \_\_\_\_\_, certify that I am the \_\_\_\_\_ of the corporation named as Contractor herein; that \_\_\_\_\_ who signed this Agreement on behalf of the Contractor, was then \_\_\_\_\_ of said corporation; that said Agreement was duly signed for and in behalf of said corporation by authority of its governing body, and is within the scope of its corporate powers.

Corporate  
Seal

\_\_\_\_\_  
(Corporate Secretary)



**CERTIFICATION OF BIDDER REGARDING EQUAL EMPLOYMENT OPPORTUNITY**

**U.S. DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT**

*NOTICE: Must be completed and submitted **WITH** the bid or proposal*

**INSTRUCTIONS**

This certification is required pursuant to Executive Order 11246 (30 F.R. 12319-25). The implementing rules and regulations provide that any bidder or prospective contractor, or any of their proposed subcontractors, shall state as an initial part of the bid or negotiations of the contract whether it has participated in any previous contract or subcontract subject to the equal opportunity clause; and, if so, whether it has filed all compliance reports due under applicable instructions.

Where the certification indicates that the bidder has not filed a compliance report due under applicable instructions, such bidder shall be required to submit a compliance report within seven (7) days after bid opening. No contract shall be awarded unless such report is submitted.

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**CERTIFICATION BY BIDDER**

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NAME AND ADDRESS OF BIDDER (Include ZIP Code)

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1. Bidder has participated in a previous contract or subcontract subject to the Equal Opportunity Clause.

Yes                      No

---

2. Compliance reports were required to be filed in connection with such contract or subcontract.

Yes                      No

---

3. Bidder has filed all compliance reports due under applicable instructions.

Yes                      No                      None Required

---

4. Have you ever been or are you being considered for sanction due to violation of Executive Order 11246, as amended?

Yes                      No

---

Name and Title of Signer (Please type)

---

Signature

---

Date

CERTIFICATION OF BIDDER REGARDING FEDERAL LABOR STANDARDS AND DAVIS-BACON ACT

NOTICE: Must be completed and submitted WITH the construction bid or proposal

\_\_\_\_\_  
Name of Prime Contractor

\_\_\_\_\_  
Project Name and Number

**Bidder:**

This certification is required to insure that the proposed Bidder understands that the Project or program to which the construction work covered by any construction greater than \$2,000, is being assigned by the United States of America and that the various Federal Labor Standards Provisions, summarized in the Form HUD-4010, "Federal Labor Standards Provisions" are included in any such contract, pursuant to the provisions applicable to such Federal assistance. Nothing, however, shall prohibit the payment of more than the prevailing wage rate to any construction worker employed on the construction project.

**Wage Determination:**

Federal prevailing wage rates for construction labor can be obtained from the Wage Determination Online system:

<http://www.wdol.gov/>

**Wage Determination Posting:**

Contractors and sub-contractors shall post the prevailing wage rates for each craft and classification in a prominent and easily place at the site of the work, or at such places as are used by them to pay workers.

The undersigned is required to ensure that all specifications and/or contracts include all applicable Federal wage rate determination and the required labor standards provisions summarized by Form HUD-4010, "Federal Labor Standards Provisions."

**Weekly Certified Payrolls:**

It is the responsibility of each contractor and sub-contractor to submit weekly certified payrolls for project work (<http://www.dol.gov/whd/forms/wh347.pdf>)

\_\_\_\_\_  
Name and Address of Bidder (include ZIP code):

\_\_\_\_\_  
Name and Title of Signer (Print or Type)

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

**CERTIFICATION OF CONTRACTOR/SUBCONTRACTOR REGARDING SECTION 3 AND SEGREGATED FACILITIES**

*NOTICE: Must be completed and submitted **WITH** the bid or proposal (over \$100,000)*

\_\_\_\_\_  
Name of Contractor or Sub-Contractor

\_\_\_\_\_  
Project Name and IFB Number

The undersigned hereby certifies that:

- (a) Section 3 provisions are included in the Contract if this is a Section 3 project.
- (b) The above state company is a signatory to the Contractor's Section 3 Plan.
- (c) No segregated facilities will be maintained as required by Title VI of the Civil Rights Act of 1964.

\_\_\_\_\_  
Name and Title of Signer (Type of Print)

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

**CERTIFICATIONS OF BIDDER REGARDING CIVIL RIGHTS**  
*NOTICE: Must be completed and submitted WITH the bid or proposal*

The undersigned is fully aware that this contract is wholly or partially federally funded, and further, agrees to abide by the:

**Civil Rights Act of 1964, Title VI**, as amended, that provides no person on the basis of Race, Color, or National Origin shall be excluded from participation, denied program benefits, or subjected to discrimination.

**And, Civil Rights Act of 1968, Title VIII**, as amended, will not discriminate in housing on the basis of Race, Color, Religion, Sex, or National Origin.

**And, Rehabilitation Act of 1973, Section 504**, as amended, that no otherwise qualified individual shall solely by reason of his or her handicap be excluded from participation and/or employment, denied program benefits, subjected to discrimination under any program receiving federal funds;

**And, Housing and Community Development Act of 1974, Section 109**, as amended, that no person shall be excluded from participation (including employment), denied program benefits, or subjected to discrimination on the basis of Race, Color, National Origin, Sex, Age, and Handicap under any program or activity funded in whole or part under Title I (CDBG) of the Act. And, Age Discrimination Act of 1975, as amended, that no person shall be excluded from participation, denied program benefits, or subjected to discrimination on the basis of age under any program or activity receiving federal funds.

**And, Americans with Disabilities Act of 1990**, as amended, that there shall be no employment discrimination against "qualified individuals with disabilities."

**And, Executive Order 11063**, that no person shall, on the basis of race, color, religion, sex, or national origin, be discriminated against in housing and related facilities provided with federal assistance, or lending practices with respect to residential property when such practices are connected with loans insured or guaranteed by the federal government.

**And, Executive Order 11246**, as amended, that no person shall be discriminated against, on the basis of race, color, religion, sex, or national origin, in any phase of employment during the performance of federal or federally assisted construction contracts in excess of \$10,000.

***EQUAL EMPLOYMENT OPPORTUNITY***

During the performance of the contract, the CONTRACTOR agrees as follows:

1. The CONTRACTOR will not discriminate against any employee or applicant for employment because of race, creed, sex, color, national origin, familial status, religious affiliation or handicap. The CONTRACTOR will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, creed, sex, color, national origin, familial status, religious affiliation or handicap. Such action shall include, but not be limited to, the following: employment, upgrading, demotion or transfer; recruitment or recruitment advertising; layoff or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The CONTRACTOR agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided by the GRANTEE setting forth the provisions of this non-discrimination clause.
2. The CONTRACTOR will, in all solicitation or advertisements for employees placed by or on behalf of the CONTRACTOR for the GRANTEE, state that all qualified applicants will receive consideration for employment without regard to race, creed, sex, color, national origin, familial status, religious affiliation or handicap. 3. The CONTRACTOR will cause the foregoing provisions to be inserted in all subcontracts for any work covered by this contract so that such provisions will be binding upon each subcontractor, provided that the foregoing provisions shall not apply to contracts or subcontracts for standard commercial supplies or raw materials.
3. The CONTRACTOR will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by the rules, regulations and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his/her books, records, and accounts by the GRANTEE's Department of Housing and/or Community Development and the Secretary of Labor

for purposes of investigation to ascertain compliance with such rules, regulations and orders.

4. In the event of the CONTRACTOR's non-compliance with any provision of this contract or with any of such rules, regulations or orders, this Agreement may be canceled, terminated, or suspended in whole or in part and the CONTRACTOR may be declared ineligible for further Government contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.
5. The CONTRACTOR will include the provisions of the subparagraphs 12 (a) through (f) in every subcontract or purchase order unless exempted by rules, regulations or orders of the Secretary of Labor issued pursuant to Section 204 of Executive Order 11246 of September 24, 1965, so that such provision will be binding upon each subcontractor or vendor. The CONTRACTOR will take such action with respect to any subcontract or purchase order as the GRANTEE's Department of Housing and/or Community Development may direct as a means of enforcing such provisions including sanctions for non-compliance: Provided, however, that in the event the CONTRACTOR becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the GRANTEE's Department of Housing and/or Community Development, the CONTRACTOR may request the United States to enter into such litigation to protect the interests of the United States.

**AFFIRMATIVE ACTION FOR HANDICAPPED WORKERS – SECTION 503**

(IF CONTRACT IS \$25,000 OR OVER)

1. The CONTRACTOR will not discriminate against any employee or applicant for employment because of physical or mental handicap in regard to any position for which the employee or applicant for employment is qualified. The CONTRACTOR agrees to take affirmative action to employ, advance in employment and otherwise treat qualified handicapped individuals without discrimination based upon their physical or mental handicap in all employment practices such as the following: employment, upgrading, demotion or transfer, recruitment, advertising, layoff or termination, rates of pay or other forms of compensation, and selection for training, including apprenticeship.
2. The CONTRACTOR agrees to comply with the rules, regulations, and relevant orders of the Secretary of Labor issued pursuant to the Act. 3. In the event of the CONTRACTOR's non-compliance with the requirements of this clause, actions for non-compliance may be taken in accordance with the rules, regulations, and relevant orders of the Secretary of Labor issued pursuant to the Act.
4. The CONTRACTOR agrees to post in conspicuous places, available to employees and applicants for employment, notices in a form to be prescribed by the Director, provided by or through the contracting officer. Such notices shall state the CONTRACTOR's obligation under the law to take affirmative action to employ and advance in employment qualified handicapped employees and applicants for employment, and the rights of applicants and employees.
5. The CONTRACTOR will notify each labor union or representative of workers with which it has a collective bargaining agreement or other contract understanding, that the CONTRACTOR is bound by the terms of Section 503 of Rehabilitation Act of 1973, and is committed to take affirmative action to employ and advance in employment physically and mentally handicapped individuals.
6. The CONTRACTOR will include the provisions of this clause in every subcontract or purchase order of \$2,500 or more unless exempted by rules, regulations, or orders of the Secretary issued pursuant to Section 503 of the Act, so that such provisions will be binding upon each subcontractor with respect to any subcontract or purchase order as the Director of the Office of Federal contract Compliance Programs may direct to enforce such provisions, including action for non-compliance.

**ACCESS TO RECORDS AND RECORDS RETENTION**

The undersigned certifies, to the best of his or her knowledge and belief that:

1. The individual, sole proprietor, partnership, corporation, and/or association agrees to permit Boulder County Collaborative, State of Colorado, U. S. Department of Housing and Urban Development (HUD), and the Office of the Inspector General and/or their designated representatives to have access to all records for review, monitoring, and audit during normal

working hours.

2. The individual, sole proprietor, partnership, corporation, and/or association agrees to retain all records for at least five years following the closeout date or the resolution of all audit findings, whichever is later.

**CONFLICT OF INTEREST**

The undersigned is fully aware that this contract is wholly or partially federally funded, and further, by submission of the bid or proposal that the individual or firm, certifies that:

1. There is no substantial interest, as defined by Colorado Statutes, with any public official, employee, agency, commission, or committee with the Boulder County Collaborative.
2. Any substantial interest, as defined by Colorado Statutes, with any public official, employee, agency, commission, or committee (including members of their immediate family) with Boulder County Collaborative that develops at any time during this contract will be immediately disclosed to Boulder County Collaborative.

**ANTI-LOBBYING CERTIFICATION**

The undersigned certifies, to the best of his or her knowledge and belief that:

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

**CERTIFICATIONS SIGNATURE FORM**

*Return this form with proposal.*

These Certifications (Civil Rights, Equal Employment Opportunity, Affirmative Action for Handicapped Workers – Section 503, Access to Records and Records Retention, Conflict of Interest, Lobbying) are a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of these Certifications is a prerequisite for making or entering into this transaction imposed by Section 1352, Title 31, U.S. Code.

---

(Typed name of official)

(Signature of Official)

---

(Typed name of entity)

(Date)

**NON-COLLUSION AFFIDAVIT OF PRIME BIDDER**

NOTICE: *Must be completed and submitted **WITH** the bid or proposal*

State of \_\_\_\_\_)

County of \_\_\_\_\_) ss.

\_\_\_\_\_, being first duly sworn, deposes and says that:

1. He/She is \_\_\_\_\_ of \_\_\_\_\_, the Bidder that has submitted the attached Bid;
  
2. He/She is fully informed respecting the preparation and contents of the attached Bid and of all pertinent circumstances respecting such Bid;
  
3. Such Bid is genuine and is not a collusive or sham Bid;
  
4. Neither the said Bidder nor any of its officers, partners, owners, agents, representatives, employees or parties in interest, including this affiant, has in any way colluded, conspired, connived or agreed, directly or indirectly with any other Bidder, firm or person to submit a collusive or sham Bid in connection with the Contract for which the attached Bid has been submitted or to refrain from bidding in connection with such Contract, or has in any manner, directly or indirectly, sought by agreement or collusion or communication or conference with any other Bidder, firm or person to fix the price or prices in the attached Bid or of any other Bidder, or to fix any overhead, profit or cost element of the Bid price or the Bid price of any other Bidder, or to secure through any collusion, conspiracy, connivance or unlawful agreement any advantage against the *(Grantee/Local Public Agency)* or any person interested in the proposed Contract; and
  
5. The price or prices quoted in the attached Bid are fair and proper and are not tainted by any collusion, conspiracy, connivance or unlawful agreement on the part of the Bidder or any of its agents, representatives, owners, employees, or parties in interest, including this affiant.

\_\_\_\_\_  
(Signed)

\_\_\_\_\_  
(Name & Title)

Subscribed and sworn to before me  
this \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
(Notary Public)

My commission expires \_\_\_\_\_.

## SECTION 3 REQUIREMENTS

*NOTICE: Must be completed and submitted **WITH** the bid or proposal (over \$100,000)*

**Boulder County Collaborative is committed to comply with Section 3 of the Housing and Urban Development Act of 1968. This Act encourages the use of Section 3 businesses and the hiring of low income residents of the community for projects or programs using or assisted with HUD funding, as applicable.**

HUD Funded Contracts in excess of \$100,000

All applicable bid proposals and contracts shall include the following Section 3 language.

- a. The work to be performed under this contract is on a project assisted under a program providing direct federal financial assistance from the Department of Housing and Urban Development and is subject to the requirements of Section 3 of the Housing and Urban Development Act of 1968, as amended, 12U.S.C. 1701u. Section 3 requires that the greatest extent feasible, opportunities for training and employment be given lower income residents of the project areas, and contracts for work in connection with the project be awarded to business concerns residing in the project area.
- b. The parties to this contract will comply with the provision of said Section 3 and the regulations issued pursuant thereto by the Secretary of Housing and Urban Development set forth in 24 CFR and all applicable rules and orders of the Department issued thereunder prior to the execution of this contract. The parties to this contract certify and agree that they are under no contractual or other disability which would prevent them from complying with these requirements.
- c. The contractor will send to each labor organization or representative of workers with which he has a collective bargaining agreement or other contract or understanding, if any, a notice advising the said labor organization or workers' representative of his commitments under the Section 3 clause, and shall post copies of the notice in conspicuous places available to employees and applicants for employment or training.
- d. The contractor will include this Section 3 clause in every subcontract for work in connection with the project and will, at the direction of the applicant for, or recipient of federal financial assistance, take appropriate action pursuant to the subcontract upon a finding that the subcontractor is in violation of regulations issued by the Secretary of Housing and Urban Development, 24 CFR 135. The contractor will not subcontract with any subcontractor where it has notice or knowledge that the latter has been found in violation of regulations under 24 CFR 135, and will not let any subcontract unless the subcontractor has first provided it with the requirements of these regulations.
- e. Compliance with the provisions of Section 3, the regulations set forth in 24 CFR 135, and all applicable rules and orders of the Department, issued thereunder prior to the execution of the contract, shall be a condition of the federal financial assistance provided to the project, binding upon the applicant or recipient for such assistance, its successors and assigns. Failure to fulfill these requirements shall subject the applicant or recipient, its contractors and subcontractors, its successors and assigns to those sanctions specified by the grant or loan agreement or contract through which federal assistance is provided, and to such sanctions as are specified by 24 CFR 135.

Boulder County Collaborative shall require each contractor on all HUD funded public or residential construction jobs exceeding \$100,000, to prepare a written Section 3 plan as a part of their bids. All Section 3 plans shall be reviewed and approved by Boulder County Collaborative and retained according to the Records Retention Plan.



**CONTRACTOR/SUBCONTRACTOR'S SECTION 3 PLAN**

**(Required if contract exceeds \$100,000)**

*NOTICE: Must be completed and submitted WITH the bid or proposal*

\_\_\_\_\_ agrees to implement the following specific affirmative action steps

(Name of contractor/Subcontractor)

directed at increasing the utilization of lower income residents and businesses within the City/Town of \_\_\_\_\_.

- A. The boundaries of the Section 3 covered project area is Boulder County, Colorado and where advantageous, seek the assistance of local officials in preparing and implementing the affirmative action plan.
- B. To attempt to recruit from within the County the necessary number of lower income residents through: local advertising media, signs placed at the proposed site for the project, and community organizations and public or private institutions operating within or serving the project area such as State Employment Service and or Workforce Boulder County.
- C. To maintain a list of all lower income residents who have applied either on their own or on referral from any source, and to employ such persons, if otherwise eligible and if a vacancy exists.
- D. To insert this Section 3 Plan in all bid documents, and to require all bidders on subcontracts to submit a Section 3 Plan including utilization goals and the specific steps planned to accomplish these goals.
- E. To ensure that subcontracts, which are typically let on a negotiated rather than a bid basis, in areas other than Section 3 covered project areas, are also let on a negotiated basis whenever feasible, if let in a Section 3 covered project area.
- F. To formally contact unions, subcontractors, and trade associations to secure their cooperation for this program.
- G. To ensure that all appropriate project area business concerns are notified of pending subcontractual opportunities.
- H. To maintain records, including copies of correspondence, memoranda, etc. which document that all of the above affirmative action steps have been taken.
- I. To appoint or recruit an executive official of the company or agency as Equal Opportunity Officer to coordinate the implementation of this Section 3 Plan.
- J. To list on Table A information related to subcontracts to be awarded.
- K. To list on Table B all projected workforce needs for all phases of this project by occupation, trade, skill level, and number of positions.

As officers and representatives of \_\_\_\_\_, we the undersigned have read  
(Name of Contractor/Subcontractor)  
and fully agree to this Section 3 Plan, and become a party to the full implementation of this program.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

\_\_\_\_\_  
Date

**CONTRACTOR/SUBCONTRACTOR'S SECTION 3 TABLES A & B**

**TABLE A**

**PROPOSED SUBCONTRACTS BREAKDOWN**

NOTICE: Must be completed and submitted **WITH** the bid or proposal (over \$100,000)

FOR THE PERIOD COVERING \_\_\_\_\_ 20\_\_\_\_ THROUGH \_\_\_\_\_, 20\_\_\_\_

(Duration of the CDBG-DR-Assisted Project)

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5
Type Of Contract (Business or Profession)	Total Number of Contracts	Total Approximate Dollar Amount	Estimated Number Of Contracts to Project Area Businesses*	Estimated Dollar Amount to Project Area Businesses*

\*The Project Area is coextensive with the City/Town of: \_\_\_\_\_ boundaries.

\_\_\_\_\_  
Company

\_\_\_\_\_  
Project Name

\_\_\_\_\_  
Project/IFB Number

\_\_\_\_\_  
EEO Officer (Signature)

\_\_\_\_\_  
Date

**TABLE B**

**ESTIMATED PROJECT WORKFORCE BREAKDOWN**

NOTICE: Must be completed and submitted WITH the bid or proposal (over \$100,000)

COLUMN 1	COLUMN 2	COLUMN 3	COLUMN 4	COLUMN 5
<b>Job Category</b>	<b>Total Estimated Positions</b>	<b>No. Positions Currently Occupied By Permanent Employees</b>	<b>No. Positions Not Currently Occupied</b>	<b>No. Positions To Be Filled w/LIPAR*</b>
Officers/Supervisors				
Professionals				
Technicians				
Housing Sales/Rental/Mgmt.				
Office Clerical				
Service Workers				
Others				

**TRADE:**

Journeyman				
Apprentices				
Maximum No. Trainees				
Others				

**TRADE:**

Journeyman				
Apprentices				
Maximum No. Trainees				
Others				

\*Lower Income Project Area Residents. A Section 3 qualifying person is one whose household resides in Boulder County and whose income does not exceed the income limit for the size of household as per the Section 8 Income Limits for Boulder County.

---

Company

## VI. REQUIRED CONTRACT FORMS

***The following sections contain documents the Contractor must complete and submit prior to contract execution.***

**CERTIFICATION OF BIDDER REGARDING SECTION 3**  
*NOTICE: Due by Contractor **PRIOR TO** Contract Execution (over \$100,000)*

\_\_\_\_\_  
Name of Prime Contractor

\_\_\_\_\_  
Project Name and Number

The undersigned hereby certifies that:

A. The positions listed under Part B that have been filled by \_\_\_\_\_  
(Name of Prime Contractor)

were not filled to circumvent the contractor's obligation to provide employment opportunities, including training positions, for Section 3 residents, as required by Section 3 of the Housing and Urban Development Act of 1968 and the implementing regulations, 24 CFR Part 135.

B. Employment positions filled since \_\_\_\_\_.  
(Date of Selection)

Employment Positions Filled:

_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____
_____	_____

C. No employment positions have been filled since \_\_\_\_\_.  
(Date of Selection)

\_\_\_\_\_  
Name and Title of Signer

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Date

### SECTION 3 CERTIFICATION FOR BUSINESS

*NOTICE: Due by Contractor **PRIOR TO** Contract Execution (over \$100,000)*

Project Name: \_\_\_\_\_ Contract Number: \_\_\_\_\_

Contractor Name: \_\_\_\_\_

It is the policy of the Congress and the purpose of the federal Section 3 policy to ensure that the employment and other economic opportunities generated by federal financial assistance for housing, economic and community development programs shall, to the greatest extent feasible, be directed toward low and very low income persons, particularly those who are the recipients of government assistance for housing.

**Does your business qualify as a Section 3 business?**      \_\_\_\_\_ **Yes**      \_\_\_\_\_ **No**

To qualify as a Section 3 business, you must meet one or more of the following three criteria (please check all that apply as per 24 CFR, Subchapter B, Part 135.5):

\_\_\_\_\_ Is owned (51% or more) by Section 3 residents (defined below\*)

\_\_\_\_\_ Employs in permanent, full-time positions, at least 30% persons whom are currently Section 3 residents OR whom were Section 3 residents within three years of the date of first employment with the business

\_\_\_\_\_ Provides evidence of a commitment to subcontract in excess of 25% of the dollar award of all subcontracts to be awarded to businesses that meet one of the above definitions.

\* Section 3 residents are persons who either live in public housing or are at or below the following income qualifications:

[https://www.hudexchange.info/resource/reportmanagement/published/HOME\\_IncomeLmts\\_State\\_CO\\_2015.pdf](https://www.hudexchange.info/resource/reportmanagement/published/HOME_IncomeLmts_State_CO_2015.pdf)

COUNTY	Type of Household	1 Person	2 Person	3 Person	4 Person	5 Person	6 Person	7 Person	8 Person
BOULDER	Low Income	\$46,100	\$52,650	\$59,250	\$65,800	\$71,100	\$76,350	\$81,600	\$86,900

I certify that the above information is accurate, and agree to provide records upon request for verification of my eligibility as a Section 3 business.

\_\_\_\_\_  
Signature

\_\_\_\_\_  
Title

\_\_\_\_\_  
Name (printed)

\_\_\_\_\_  
Date

## PERFORMANCE AND PAYMENT BONDING REQUIREMENTS

*NOTICE: Due by Contractor **PRIOR TO** Contract Execution (over \$100,000)*

State of Colorado regulations require a Grantee and/or its contractor (or subcontractors) performing the work to secure the following:

**PAYMENT BOND.** A "payment bond" is one executed in connection with a contractor to assure payment, as required by law, of all persons supplying labor and material in the execution of the work provided for in the contract. A Payment Bond is required on the part of the contractor for one-hundred percent (100%) of the contract price. The bond shall be obtained from a company holding a certificate of authority as an acceptable surety. A certified or cashier's check or a bank money order may be accepted in lieu of a bond.

**PERFORMANCE BOND.** A "performance bond" is one executed in connection with a contract to secure fulfillment of all the contractor's obligations under such contract. A Performance Bond is required on the part of the contractor for one-hundred percent (100%) of the contract price. The bond shall be obtained from a company holding a certificate of authority as an acceptable surety. A certified or cashier's check or a bank money order may be accepted in lieu of a bond.

PERFORMANCE BOND

NOTICE: Due by Contractor **PRIOR TO** Contract Execution (over \$100,000)

We, \_\_\_\_\_,
(Name of Contractor or Company)
contractor under \_\_\_\_\_ contract # \_\_\_\_\_
(Name of OWNER) (Contract Number)
(hereafter "THE CONTRACT") as PRINCIPAL and \_\_\_\_\_, as Surety, a
(Name of Surety)
corporation organized under the laws of the State of \_\_\_\_\_ and authorized to
(State)
transact business in the State of Colorado, with an office at \_\_\_\_\_,
(Address)
hereby bind ourselves, our heirs, successors, executors, administrators, and assigns, jointly and severally,
to the \_\_\_\_\_, Colorado, (OWNER) as Obligee, in the amount of \_\_\_\_\_
(OWNER) (Contract Amount)
DOLLARS, in United States currency, for the performance of THE CONTRACT.

WHEREAS, the PRINCIPAL (Contractor) entered into THE CONTRACT with the \_\_\_\_\_
(OWNER)
dated \_\_\_\_\_, 20\_\_\_\_\_, for \_\_\_\_\_
(Project Name and Location)
according to the plans and specifications contained in THE CONTRACT, a copy of which is made a part
hereof;

The conditions of this Performance Bond are that, if the PRINCIPAL (Contractor) fully and faithfully:

- a) completes the work strictly according to the terms of the CONTRACT, and;
b) for a period of one year after the issuance of the Notice of Project Construction Acceptance or until all warranty work is completed, repairs or replaces where required (or pays the cost thereof) all work performed under the terms of the CONTRACT;

then this bond is null and void. Otherwise, upon written notification from the OWNER, the Surety shall take one of the following actions at the Surety's expense:

- 1. Arrange for the PRINCIPAL (Contractor), with consent of the OWNER, to perform and complete THE CONTRACT; or
2. Undertake to perform and complete THE CONTRACT itself, through its agents or through independent contractors. (The Surety is then bound by all of the provisions of THE CONTRACT); or



3. Obtain bids or negotiated proposals from qualified contractors acceptable to the OWNER for a contract for performance and completion of THE CONTRACT, arrange for a contract to be prepared for execution by the OWNER and the contractor selected with the OWNER's concurrence, to be secured with a performance bond and a labor and material bond executed by qualified sureties equivalent to the bonds issued on THE CONTRACT, and pay to the OWNER the amount of all damages incurred by the OWNER due to the default of PRINCIPAL (Contractor) including correction of defective work (if any), additional legal, design professional and delay costs, and the cost of completion of THE CONTRACT subject to the amount of this bond. In addition to these conditions, this bond includes, by reference, all applicable provisions stated in § 38-26-106, C.R.S, as amended.

If the Surety does not commence performance of the Work or cause commencement of performance of the work within ten days from the date of the written notification from the OWNER, the OWNER may take over the CONTRACT and, without prejudice to any other remedies, complete the CONTRACT and the PRINCIPAL and Surety are liable to the OWNER for all damages incurred by OWNER due to the default of PRINCIPAL (Contractor) including correction of defective work (if any), additional legal, design professional and delay costs, and the cost of completion of THE CONTRACT subject to the amount of this bond.

THE SURETY, for value received, agrees that no extension of time, change in, addition to, or other modification of the terms of THE CONTRACT or Work to be performed shall in any way affect its obligation on this bond and the Surety hereby waives notice of any such extension of time, change, addition or modifications.

The OWNER shall bring any action against the Surety on this bond no later than two years from the published date of Final Settlement.

Executed this \_\_\_\_\_ day of \_\_\_\_\_, 2017.

WITNESS

\_\_\_\_\_

PRINCIPAL

\_\_\_\_\_

By its President

WITNESS

\_\_\_\_\_

SURETY

\_\_\_\_\_ TITLE

BY: \_\_\_\_\_

Its Attorney-in-fact

**NOTE:** Date of BOND must not be prior to date of Contract. If the Contractor is Partnership, all partners should execute BOND.

**IMPORTANT:** Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State where the Project is located.

**PAYMENT BOND**

*NOTICE: Due by Contractor **PRIOR TO** Contract Execution (over \$100,000)*

Know all people by these presents that:

\_\_\_\_\_

(Name of Contractor or Company)

\_\_\_\_\_

(Address)

A \_\_\_\_\_ hereinafter called PRINCIPAL, and \_\_\_\_\_

(Corporation/Partnership)

(Name of Surety Company)

\_\_\_\_\_

(Address)

hereinafter called SURETY, are held and firmly bound unto

\_\_\_\_\_

(Name of OWNER)

\_\_\_\_\_

(OWNER's Address)

hereinafter called OWNER, in the penal sum of \$ \_\_\_\_\_ Dollars in lawful money of the United States, for the payment of which sum well and truly to be made we bind ourselves, successors, and assigns, jointly and severally, firmly in these presents.

THE CONDITION OF THIS OBLIGATION is such that whereas, the PRINCIPAL entered into a certain CONTRACT with the OWNER dated the \_\_\_\_\_ day of \_\_\_\_\_, 20\_\_\_\_\_, a copy of which is hereto attached and made a part hereof for the construction of:

PROJECT NAME: \_\_\_\_\_

NOW THEREFORE, if the PRINCIPAL shall promptly make payment to all persons, firms, SUB-CONTRACTORS, and corporations furnishing materials for or performing labor in the prosecution of the WORK provided for in such CONTRACT, and any authorized extension or modification thereof, including all amounts due for materials, lubricants, oil, gasoline, coal and coke, repairs on machinery, equipment and tools, consumed or used in connection with the construction of such WORK, and all insurance premiums on said WORK whether by SUB-CONTRACTOR or otherwise, then this obligation shall be void; otherwise to remain in full force and effect.

PROVIDED FURTHER, that the said Surety, for value received hereby stipulates and agrees that no change, extension of time, alteration or addition to the terms of the CONTRACT or to WORK to be performed thereunder or the SPECIFICATIONS accompanying the same shall in any way affect its obligation on this BOND, and it does hereby waive notice of any such change, extension of time, alteration or addition to the terms of the CONTRACT or to the WORK or to the SPECIFICATIONS.

PROVIDED, FURTHER, that no final settlement between the OWNER and the PRINCIPAL shall abridge the right of any beneficiary hereunder, whose claim may be unsatisfied.

IN WITNESS WHEREOF, this instrument is executed in \_\_\_\_\_ counterparts, each one of which shall be deemed an original, and this the \_\_\_\_\_ day of \_\_\_\_\_ 20 \_\_\_\_\_.

PRINCIPAL:

\_\_\_\_\_  
(By its President)

\_\_\_\_\_  
Witness as to Principal

SURETY:

\_\_\_\_\_  
Title

By \_\_\_\_\_  
(Its Attorney-in-fact)

\_\_\_\_\_  
Witness as to Surety

**NOTE:** Date of BOND must not be prior to date of CONTRACT. If CONTRACTOR is Partnership, all partners should execute BOND.

**IMPORTANT:** Surety companies executing BONDS must appear on the Treasury Department's most current list (Circular 570 as amended) and be authorized to transact business in the State where the Project is located.

## VII. ADDITIONAL FORMS/DOCUMENTS FOR USE DURING CONTRACT TERM

***The following sections contain documents the Contractor must complete and submit periodically for the life of the Contract.***

### **SUMMARY OF CONTENTS AND SUBMITTAL REQUIREMENTS:**

**1. Certified Payroll Form (WH 347)**

To be turned in for each week of job from each contractor/subcontractor with each pay request. Can use your own payroll documents as long as all information required on this form is included on your own payroll forms. You are required to include page 2 certification statement. If you are using your own payroll format you may attach the certification form the back of the WH-347.

If additional wage classifications are needed for this job and are not shown on the applicable wage decision, call the contract administrator for help with requesting an additional classification to be added/approved.

**2. Payroll Deduction Authorization for “other deductions” on Certified Payroll (Only if applicable)**

**3. Section 3 Monthly Report for Contractor and Subcontractor**

- Contractor and subcontractor are required to submit a Monthly Compliance Form and an Employee Data and Certification form for all new hires.
- Contractor and Subcontractor are required to submit a Notice of termination and job problems related to Section 3 eligible workers.
- Contractor payment requests may be held until all reporting requirements have been met.

**4. Section 3 Employee Data Certification**

**5. Section 3 Posted Notice to Project Residents**



Date \_\_\_\_\_

I, \_\_\_\_\_ (Name of Signatory Party) \_\_\_\_\_ (Title)

do hereby state:

(1) That I pay or supervise the payment of the persons employed by

\_\_\_\_\_ on the  
(Contractor or Subcontractor)

\_\_\_\_\_ ; that during the payroll period commencing on the  
(Building or Work)

\_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_, and ending the \_\_\_\_\_ day of \_\_\_\_\_, \_\_\_\_\_,

all persons employed on said project have been paid the full weekly wages earned, that no rebates have been or will be made either directly or indirectly to or on behalf of said

\_\_\_\_\_ from the full  
(Contractor or Subcontractor)

weekly wages earned by any person and that no deductions have been made either directly or indirectly from the full wages earned by any person, other than permissible deductions as defined in Regulations, Part 3 (29 C.F.R. Subtitle A), issued by the Secretary of Labor under the Copeland Act, as amended (48 Stat. 948, 63 Stat. 108, 72 Stat. 967; 76 Stat. 357; 40 U.S.C. § 3145), and described below:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

(2) That any payrolls otherwise under this contract required to be submitted for the above period are correct and complete; that the wage rates for laborers or mechanics contained therein are not less than the applicable wage rates contained in any wage determination incorporated into the contract; that the classifications set forth therein for each laborer or mechanic conform with the work he performed.

(3) That any apprentices employed in the above period are duly registered in a bona fide apprenticeship program registered with a State apprenticeship agency recognized by the Bureau of Apprenticeship and Training, United States Department of Labor, or if no such recognized agency exists in a State, are registered with the Bureau of Apprenticeship and Training, United States Department of Labor.

(4) That:

(a) WHERE FRINGE BENEFITS ARE PAID TO APPROVED PLANS, FUNDS, OR PROGRAMS

- in addition to the basic hourly wage rates paid to each laborer or mechanic listed in the above referenced payroll, payments of fringe benefits as listed in the contract have been or will be made to appropriate programs for the benefit of such employees, except as noted in section 4(c) below.

(b) WHERE FRINGE BENEFITS ARE PAID IN CASH

- Each laborer or mechanic listed in the above referenced payroll has been paid, as indicated on the payroll, an amount not less than the sum of the applicable basic hourly wage rate plus the amount of the required fringe benefits as listed in the contract, except as noted in section 4(c) below.

(c) EXCEPTIONS

EXCEPTION (CRAFT)	EXPLANATION

REMARKS:

NAME AND TITLE

SIGNATURE

THE WILLFUL FALSIFICATION OF ANY OF THE ABOVE STATEMENTS MAY SUBJECT THE CONTRACTOR OR SUBCONTRACTOR TO CIVIL OR CRIMINAL PROSECUTION. SEE SECTION 1001 OF TITLE 18 AND SECTION 2311 OF TITLE 31 OF THE UNITED STATES CODE.

**PAYROLL DEDUCTION AUTHORIZATION FORM**  
**"OTHER DEDUCTIONS" ON CERTIFIED PAYROLL**  
*NOTICE: For Davis Bacon Act-Applicable Projects Only*  
*Contractors place this form on Company Letterhead*

Project Name: \_\_\_\_\_

Employee's Name: \_\_\_\_\_

I, \_\_\_\_\_, hereby authorize \_\_\_\_\_ to  
(Employee Name) (Name of Employer/Company)

deduct \$ \_\_\_\_\_ from my paycheck.

This deduction is for:

\_\_\_\_\_ Loan Repayment      \_\_\_\_\_ Retirement      \_\_\_\_\_ Profit Sharing  
\_\_\_\_\_ Advance                      \_\_\_\_\_ Charitable Donations  
\_\_\_\_\_ Savings Bonds              \_\_\_\_\_ Insurance Premiums  
\_\_\_\_\_ Other: \_\_\_\_\_

This deduction is to be made:

\_\_\_\_\_ One time only    \_\_\_\_\_ Weekly    \_\_\_\_\_ Monthly    \_\_\_\_\_ times over \_\_\_\_\_ weeks  
\_\_\_\_\_ Other: \_\_\_\_\_

Employee's Signature: \_\_\_\_\_ Date: \_\_\_\_\_

You may make payroll deductions as permitted by DOL regulations 29 CFR Part 3. These regulations prohibit the employer from requiring employees to "kick-back" (i.e. give up or return to the employer) any of their earnings other than those identified.

You need to submit this documentation only one time per employee, unless changes in deductions or durations take place.

**\*If deductions are being made for child support, a copy of the court ordered withholding must be included.**

## SECTION 3 MONTHLY COMPLIANCE REPORT

*NOTICE: For Contracts over \$100,000*

Project Name: \_\_\_\_\_ Contract Number: \_\_\_\_\_

Contractor Name: \_\_\_\_\_ For the Month of: \_\_\_\_\_

### A. Hiring - Select one:

- I have not hired any new employees during the month specified.
- I have hired \_\_\_ Section 3 employees, and/or \_\_\_\_\_ non-Section 3 employees during the month.

### B. Recruitment

- I have taken one or more of the following recruitment steps to hire a Section 3 resident with the highest training and employment priority ranking: (check all that apply)
- I have made the Regional Workforce Solutions Center, and/or the Regional Workforce website the initial contact for all new hires.
- I have advertised to fill vacancy (ies) at the site(s), where work is taking place, in connection with this project. Below, I have checked the steps I have taken to find Section 3 low-income residents, from the targeted groups and neighborhoods, to fill any vacancies.
- Placed signs or posters in prominent places at project site(s).
- Taken photographs of the above item to document that the above step was carried out.
- Distributed employment flyers to the administrative office of the local Public Housing Authority.
- Contacted employment referrals or Youthbuild Program referrals.
- Kept a log of all applicants and indicated the reasons why Section 3 residents who applied were not hired.
- Retained copies of any employment applications completed by Public Housing Authority, Section 8 certificate or voucher holders or other Section 3 residents.
- Sent a notice about Section 3 training and employment requirements and opportunities to labor organizations or to worker representatives with whom our firm has a collective bargaining or other agreement.

### C. Verification

- I have attached proof of all checked items.
- I hereby certify that the above information is a true and correct.

\_\_\_\_\_  
Signature of Authorized Representative of Contractor/Subcontractor

\_\_\_\_\_  
Title

\_\_\_\_\_  
Name

\_\_\_\_\_  
Date





**SECTION 3 POSTED NOTICE TO PROJECT RESIDENTS**

*NOTICE: For Contracts over \$100,000*

The project \_\_\_\_\_ is being funded by the U.S. Department of Housing and Urban Development under the - Disaster Recovery Funding Program. This notice complies with the Boulder County Collaborative Section 3 Plan and is intended to inform the public, in particular project residents, of the economic opportunities (jobs) created through the use of the federal award.

Contractor/subcontractor intends to hire for the following positions:

Number of jobs	Title	Description of Qualifications/Licensure /Certification

**Section 3 preferences:**

- 1. Persons residing in the project area and who are of low- to very-low-income
- 2. Participants in HUD Youthbuild
- 3. Homeless Persons
- 4. Residents of the local Public Housing Authority
- 5. Residents of the local Section 8 Housing Assistance Program units

For more information including job applications, apprenticeships, training positions, and qualifications, contact:

Name of Contractor: \_\_\_\_\_

Contact Person: \_\_\_\_\_

Address: \_\_\_\_\_

City, State, Zip: Phone: \_\_\_\_\_

Estimated construction start date: \_\_\_\_\_

REQUIRED JOBSITE POSTERS  
*See proceeding pages*

# Equal Employment Opportunity is THE LAW

## Private Employers, State and Local Governments, Educational Institutions, Employment Agencies and Labor Organizations

Applicants to and employees of most private employers, state and local governments, educational institutions, employment agencies and labor organizations are protected under Federal law from discrimination on the following bases:

### **RACE, COLOR, RELIGION, SEX, NATIONAL ORIGIN**

Title VII of the Civil Rights Act of 1964, as amended, protects applicants and employees from discrimination in hiring, promotion, discharge, pay, fringe benefits, job training, classification, referral, and other aspects of employment, on the basis of race, color, religion, sex (including pregnancy), or national origin. Religious discrimination includes failing to reasonably accommodate an employee's religious practices where the accommodation does not impose undue hardship.

### **DISABILITY**

Title I and Title V of the Americans with Disabilities Act of 1990, as amended, protect qualified individuals from discrimination on the basis of disability in hiring, promotion, discharge, pay, fringe benefits, job training, classification, referral, and other aspects of employment. Disability discrimination includes not making reasonable accommodation to the known physical or mental limitations of an otherwise qualified individual with a disability who is an applicant or employee, barring undue hardship.

### **AGE**

The Age Discrimination in Employment Act of 1967, as amended, protects applicants and employees 40 years of age or older from discrimination based on age in hiring, promotion, discharge, pay, fringe benefits, job training, classification, referral, and other aspects of employment.

### **SEX (WAGES)**

In addition to sex discrimination prohibited by Title VII of the Civil Rights Act, as amended, the Equal Pay Act of 1963, as amended, prohibits sex discrimination in the payment of wages to women and men performing substantially equal work, in jobs that require equal skill, effort, and responsibility, under similar working conditions, in the same establishment.

### **GENETICS**

Title II of the Genetic Information Nondiscrimination Act of 2008 protects applicants and employees from discrimination based on genetic information in hiring, promotion, discharge, pay, fringe benefits, job training, classification, referral, and other aspects of employment. GINA also restricts employers' acquisition of genetic information and strictly limits disclosure of genetic information. Genetic information includes information about genetic tests of applicants, employees, or their family members; the manifestation of diseases or disorders in family members (family medical history); and requests for or receipt of genetic services by applicants, employees, or their family members.

### **RETALIATION**

All of these Federal laws prohibit covered entities from retaliating against a person who files a charge of discrimination, participates in a discrimination proceeding, or otherwise opposes an unlawful employment practice.

### **WHAT TO DO IF YOU BELIEVE DISCRIMINATION HAS OCCURRED**

There are strict time limits for filing charges of employment discrimination. To preserve the ability of EEOC to act on your behalf and to protect your right to file a private lawsuit, should you ultimately need to, you should contact EEOC promptly when discrimination is suspected:

The U.S. Equal Employment Opportunity Commission (EEOC), 1-800-669-4000 (toll-free) or 1-800-669-6820 (toll-free TTY number for individuals with hearing impairments). EEOC field office information is available at [www.eeoc.gov](http://www.eeoc.gov) or in most telephone directories in the U.S. Government or Federal Government section. Additional information about EEOC, including information about charge filing, is available at [www.eeoc.gov](http://www.eeoc.gov).

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## Employers Holding Federal Contracts or Subcontracts

Applicants to and employees of companies with a Federal government contract or subcontract are protected under Federal law from discrimination on the following bases:

### **RACE, COLOR, RELIGION, SEX, NATIONAL ORIGIN**

Executive Order 11246, as amended, prohibits job discrimination on the basis of race, color, religion, sex or national origin, and requires affirmative action to ensure equality of opportunity in all aspects of employment.

### **INDIVIDUALS WITH DISABILITIES**

Section 503 of the Rehabilitation Act of 1973, as amended, protects qualified individuals from discrimination on the basis of disability in hiring, promotion, discharge, pay, fringe benefits, job training, classification, referral, and other aspects of employment. Disability discrimination includes not making reasonable accommodation to the known physical or mental limitations of an otherwise qualified individual with a disability who is an applicant or employee, barring undue hardship. Section 503 also requires that Federal contractors take affirmative action to employ and advance in employment qualified individuals with disabilities at all levels of employment, including the executive level.

### **DISABLED, RECENTLY SEPARATED, OTHER PROTECTED, AND ARMED FORCES SERVICE MEDAL VETERANS**

The Vietnam Era Veterans' Readjustment Assistance Act of 1974, as amended, 38 U.S.C. 4212, prohibits job discrimination and requires affirmative action to employ and advance in employment disabled veterans, recently separated veterans (within

three years of discharge or release from active duty), other protected veterans (veterans who served during a war or in a campaign or expedition for which a campaign badge has been authorized), and Armed Forces service medal veterans (veterans who, while on active duty, participated in a U.S. military operation for which an Armed Forces service medal was awarded).

### **RETALIATION**

Retaliation is prohibited against a person who files a complaint of discrimination, participates in an OFCCP proceeding, or otherwise opposes discrimination under these Federal laws.

Any person who believes a contractor has violated its nondiscrimination or affirmative action obligations under the authorities above should contact immediately:

The Office of Federal Contract Compliance Programs (OFCCP), U.S. Department of Labor, 200 Constitution Avenue, N.W., Washington, D.C. 20210, 1-800-397-6251 (toll-free) or (202) 693-1337 (TTY). OFCCP may also be contacted by e-mail at [OFCCP-Public@dol.gov](mailto:OFCCP-Public@dol.gov), or by calling an OFCCP regional or district office, listed in most telephone directories under U.S. Government, Department of Labor.

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## Programs or Activities Receiving Federal Financial Assistance

### **RACE, COLOR, NATIONAL ORIGIN, SEX**

In addition to the protections of Title VII of the Civil Rights Act of 1964, as amended, Title VI of the Civil Rights Act of 1964, as amended, prohibits discrimination on the basis of race, color or national origin in programs or receiving Federal financial assistance. Employment discrimination is covered by Title VI if the primary objective of the financial assistance is provision of employment, or where employment discrimination causes or may cause discrimination in providing services under such programs. Title IX of the Education Amendments of 1972 prohibits employment discrimination on the basis of sex in Educational programs or activities which receive Federal financial assistance.

### **INDIVIDUALS WITH DISABILITIES**

Section 504 of the Rehabilitation Act of 1973, as amended, prohibits employment discrimination on the basis of disability in any program or activity which receives Federal financial assistance. Discrimination is prohibited in all aspects of activities employment against persons with disabilities who, with or without reasonable accommodation, can perform the essential functions of the job.

If you believe you have been discriminated against in a program of any institution which receives Federal financial assistance, you should immediately contact the Federal agency providing such assistance.

# EMPLOYEE RIGHTS UNDER THE DAVIS-BACON ACT

## FOR LABORERS AND MECHANICS EMPLOYED ON FEDERAL OR FEDERALLY ASSISTED CONSTRUCTION PROJECTS

THE UNITED STATES DEPARTMENT OF LABOR WAGE AND HOUR DIVISION

<b>PREVAILING WAGES</b>	You must be paid not less than the wage rate listed in the Davis-Bacon Wage Decision posted with this Notice for the work you perform.
<b>OVERTIME</b>	You must be paid not less than one and one-half times your basic rate of pay for all hours worked over 40 in a work week. There are few exceptions.
<b>ENFORCEMENT</b>	Contract payments can be withheld to ensure workers receive wages and overtime pay due, and liquidated damages may apply if overtime pay requirements are not met. Davis-Bacon contract clauses allow contract termination and debarment of contractors from future federal contracts for up to three years. A contractor who falsifies certified payroll records or induces wage kickbacks may be subject to civil or criminal prosecution, fines and/or imprisonment.
<b>APPRENTICES</b>	Apprentice rates apply only to apprentices properly registered under approved Federal or State apprenticeship programs.
<b>PROPER PAY</b>	If you do not receive proper pay, or require further information on the applicable wages, contact the Contracting Officer listed below:

or contact the U.S. Department of Labor's Wage and Hour Division.



For additional information:  
**1-866-4-USWAGE**  
(1-866-487-9243) TTY: 1-877-889-5627



**WWW.WAGEHOUR.DOL.GOV**

U.S. Department of Labor | Employment Standards Administration | Wage and Hour Division

WH 1321 (Revised April 2009)

"General Decision Number: C020190017 05/10/2019

Superseded General Decision Number: C020180027

State: Colorado

Construction Type: Building

County: Boulder County in Colorado.

BUILDING CONSTRUCTION PROJECTS (does not include single family homes or apartments up to and including 4 stories).

Note: Under Executive Order (EO) 13658, an hourly minimum wage of \$10.60 for calendar year 2019 applies to all contracts subject to the Davis-Bacon Act for which the contract is awarded (and any solicitation was issued) on or after January 1, 2015. If this contract is covered by the EO, the contractor must pay all workers in any classification listed on this wage determination at least \$10.60 per hour (or the applicable wage rate listed on this wage determination, if it is higher) for all hours spent performing on the contract in calendar year 2019. If this contract is covered by the EO and a classification considered necessary for performance of work on the contract does not appear on this wage determination, the contractor must pay workers in that classification at least the wage rate determined through the conformance process set forth in 29 CFR 5.5(a)(1)(ii) (or the EO minimum wage rate, if it is higher than the conformed wage rate). The EO minimum wage rate will be adjusted annually. Please note that this EO applies to the above-mentioned types of contracts entered into by the federal government that are subject to the Davis-Bacon Act itself, but it does not apply to contracts subject only to the Davis-Bacon Related Acts, including those set forth at 29 CFR 5.1(a)(2)-(60). Additional information on contractor requirements and worker protections under the EO is available at [www.dol.gov/whd/govcontracts](http://www.dol.gov/whd/govcontracts).

Modification Number	Publication Date
0	01/04/2019
1	02/01/2019
2	02/22/2019
3	05/10/2019

ASBE0028-002 07/01/2018

	Rates	Fringes
ASBESTOS WORKER/HEAT & FROST INSULATOR - MECHANICAL (Duct, Pipe & Mechanical System Insulation).....	\$ 31.73	14.23

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CARP1607-001 06/01/2018

	Rates	Fringes
MILLWRIGHT.....	\$ 32.99	14.02

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ELEC0068-018 06/01/2018

	Rates	Fringes
ELECTRICIAN.....	\$ 35.80	15.45

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ELEV0025-001 01/01/2019

	Rates	Fringes
ELEVATOR MECHANIC.....	\$ 45.05	34.125

FOOTNOTE:

- a. Vacation: 6%/under 5 years based on regular hourly rate for all hours worked. 8%/over 5 years based on regular hourly rate for all hours worked.
- b. PAID HOLIDAYS: New Year's Day; Memorial Day; Independence Day; Labor Day; Veterans' Day; Thanksgiving Day; the Friday after Thanksgiving Day; and Christmas Day.



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\* ENGI0009-017 05/01/2018

	Rates	Fringes
POWER EQUIPMENT OPERATOR (Crane)		
141 tons and over.....	\$ 31.07	10.70
50 tons and under.....	\$ 28.40	10.70
51 to 90 tons.....	\$ 28.57	10.70
91 to 140 tons.....	\$ 29.55	10.70

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IRON0024-009 01/01/2019

	Rates	Fringes
IRONWORKER, ORNAMENTAL.....	\$ 29.85	11.42

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IRON0024-010 01/01/2019

	Rates	Fringes
IRONWORKER, STRUCTURAL.....	\$ 29.85	11.42

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PAIN0079-006 08/01/2017

	Rates	Fringes
PAINTER (Brush, Roller and Spray; Excludes Drywall Finishing/Taping).....	\$ 20.50	8.41

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PAIN0419-001 07/01/2016

	Rates	Fringes
SOFT FLOOR LAYER (Vinyl and Carpet).....	\$ 20.00	10.83

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PLUM0003-009 06/01/2018

	Rates	Fringes
PLUMBER (Excludes HVAC Duct, Pipe and Unit Installation).....	\$ 35.48	15.94

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 PLUM0208-010 06/01/2018

	Rates	Fringes
PIPEFITTER (Includes HVAC Pipe Installation; Excludes HVAC Duct and Unit Installation).....	\$ 37.55	14.95

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 SFC00669-002 04/01/2017

	Rates	Fringes
SPRINKLER FITTER (Fire Sprinklers).....	\$ 36.73	20.47

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 SHEE0009-004 07/01/2018

	Rates	Fringes
SHEET METAL WORKER (Includes HVAC Duct Installation; Excludes HVAC Pipe and Unit Installation).....	\$ 34.02	17.49

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 SUC02013-003 07/31/2015

	Rates	Fringes
BRICKLAYER.....	\$ 21.96	0.00
CARPENTER, Excludes Drywall Hanging.....	\$ 22.66	6.79
CEMENT MASON/CONCRETE FINISHER...	\$ 20.31	6.76

DRYWALL FINISHER/TAPER.....	\$ 20.82	6.37
DRYWALL HANGER.....	\$ 19.24	6.30
HVAC MECHANIC: HVAC Unit Installation, Excludes Pipe and Duct Installation.....	\$ 25.23	9.36
LABORER: Common or General.....	\$ 11.76	0.00
LABORER: Mason Tender - Brick...	\$ 15.99	0.00
LABORER: Mason Tender - Cement/Concrete.....	\$ 16.00	0.00
LABORER: Pipelayer.....	\$ 16.96	3.68
OPERATOR: Backhoe/Excavator/Trackhoe.....	\$ 20.78	5.78
OPERATOR: Bobcat/Skid Steer/Skid Loader.....	\$ 18.58	2.42
OPERATOR: Grader/Blade.....	\$ 21.50	0.00
ROOFER.....	\$ 17.14	0.00
TRUCK DRIVER: Dump Truck.....	\$ 17.34	0.00

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WELDERS - Receive rate prescribed for craft performing  
operation to which welding is incidental.

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Note: Executive Order (EO) 13706, Establishing Paid Sick Leave  
for Federal Contractors applies to all contracts subject to the  
Davis-Bacon Act for which the contract is awarded (and any  
solicitation was issued) on or after January 1, 2017. If this  
contract is covered by the EO, the contractor must provide

employees with 1 hour of paid sick leave for every 30 hours they work, up to 56 hours of paid sick leave each year. Employees must be permitted to use paid sick leave for their own illness, injury or other health-related needs, including preventive care; to assist a family member (or person who is like family to the employee) who is ill, injured, or has other health-related needs, including preventive care; or for reasons resulting from, or to assist a family member (or person who is like family to the employee) who is a victim of, domestic violence, sexual assault, or stalking. Additional information on contractor requirements and worker protections under the EO is available at [www.dol.gov/whd/govcontracts](http://www.dol.gov/whd/govcontracts).

Unlisted classifications needed for work not included within the scope of the classifications listed may be added after award only as provided in the labor standards contract clauses (29CFR 5.5 (a) (1) (ii)).

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The body of each wage determination lists the classification and wage rates that have been found to be prevailing for the cited type(s) of construction in the area covered by the wage determination. The classifications are listed in alphabetical order of ""identifiers"" that indicate whether the particular rate is a union rate (current union negotiated rate for local), a survey rate (weighted average rate) or a union average rate (weighted union average rate).

#### Union Rate Identifiers

A four letter classification abbreviation identifier enclosed in dotted lines beginning with characters other than ""SU"" or ""UAVG"" denotes that the union classification and rate were prevailing for that classification in the survey. Example: PLUM0198-005 07/01/2014. PLUM is an abbreviation identifier of the union which prevailed in the survey for this classification, which in this example would be Plumbers. 0198 indicates the local union number or district council number

where applicable, i.e., Plumbers Local 0198. The next number, 005 in the example, is an internal number used in processing the wage determination. 07/01/2014 is the effective date of the most current negotiated rate, which in this example is July 1, 2014.

Union prevailing wage rates are updated to reflect all rate changes in the collective bargaining agreement (CBA) governing this classification and rate.

#### Survey Rate Identifiers

Classifications listed under the "SU" identifier indicate that no one rate prevailed for this classification in the survey and the published rate is derived by computing a weighted average rate based on all the rates reported in the survey for that classification. As this weighted average rate includes all rates reported in the survey, it may include both union and non-union rates. Example: SULA2012-007 5/13/2014. SU indicates the rates are survey rates based on a weighted average calculation of rates and are not majority rates. LA indicates the State of Louisiana. 2012 is the year of survey on which these classifications and rates are based. The next number, 007 in the example, is an internal number used in producing the wage determination. 5/13/2014 indicates the survey completion date for the classifications and rates under that identifier.

Survey wage rates are not updated and remain in effect until a new survey is conducted.

#### Union Average Rate Identifiers

Classification(s) listed under the UAVG identifier indicate that no single majority rate prevailed for those classifications; however, 100% of the data reported for the classifications was union data. EXAMPLE: UAVG-OH-0010 08/29/2014. UAVG indicates that the rate is a weighted union average rate. OH indicates the state. The next number, 0010 in the example, is an internal number used in producing the wage determination. 08/29/2014 indicates the survey completion date for the classifications and rates under that identifier.

A UAVG rate will be updated once a year, usually in January of each year, to reflect a weighted average of the current negotiated/CBA rate of the union locals from which the rate is based.

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WAGE DETERMINATION APPEALS PROCESS

1.) Has there been an initial decision in the matter? This can be:

- \* an existing published wage determination
- \* a survey underlying a wage determination
- \* a Wage and Hour Division letter setting forth a position on a wage determination matter
- \* a conformance (additional classification and rate) ruling

On survey related matters, initial contact, including requests for summaries of surveys, should be with the Wage and Hour Regional Office for the area in which the survey was conducted because those Regional Offices have responsibility for the Davis-Bacon survey program. If the response from this initial contact is not satisfactory, then the process described in 2.) and 3.) should be followed.

With regard to any other matter not yet ripe for the formal process described here, initial contact should be with the Branch of Construction Wage Determinations. Write to:

Branch of Construction Wage Determinations  
Wage and Hour Division  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

2.) If the answer to the question in 1.) is yes, then an interested party (those affected by the action) can request

review and reconsideration from the Wage and Hour Administrator  
(See 29 CFR Part 1.8 and 29 CFR Part 7). Write to:

Wage and Hour Administrator  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

The request should be accompanied by a full statement of the interested party's position and by any information (wage payment data, project description, area practice material, etc.) that the requestor considers relevant to the issue.

3.) If the decision of the Administrator is not favorable, an interested party may appeal directly to the Administrative Review Board (formerly the Wage Appeals Board). Write to:

Administrative Review Board  
U.S. Department of Labor  
200 Constitution Avenue, N.W.  
Washington, DC 20210

4.) All decisions by the Administrative Review Board are final.

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END OF GENERAL DECISION"