

DIV 00 – BIDDING AND PROCUREMENT REQUIREMENTS

GENERAL CONDITIONS:

- Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specifications Sections, apply to this Document.
- The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor. The Contract Documents are complementary, and what is required by one shall be as binding as if required by all; performance by the Contractor shall be required only to the extent consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the indicated results.
- Execution of the Contract by the Contractor is a representation that the Contractor has visited the site, become generally familiar with local conditions under which the Work is to be performed and correlated personal observations with requirements of the Contract Documents.

SUPPLEMENTARY CONDITIONS:

- Unless otherwise provided in the Contract Documents, the Contractor shall provide and pay for labor, materials, equipment, tools, construction equipment and machinery, transportation, and other facilities and services necessary for proper execution and completion of the Work, whether temporary or permanent and whether or not incorporated or to be incorporated in the Work.
- Unless otherwise provided in the Contract Documents, the Contractor shall secure and pay for the building permit as well as for other permits, fees, licenses, and inspections by government agencies necessary for proper execution and completion of the Work that are customarily secured after execution of the Contract and legally required at the time negotiations are concluded.
- The Contractor shall comply with and give notices required by applicable laws, statutes, ordinances, codes, rules and regulations, and lawful orders of public authorities applicable to performance of the Work.
- If the Contractor performs Work knowing it to be contrary to applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, the Contractor shall assume appropriate responsibility for such Work and shall bear the costs attributable to correction.
- If the Contractor encounters conditions at the site that are concealed, or are unusual, and differ materially from those indicated in the Contract Documents or from those ordinarily found to exist, the Contractor shall promptly provide notice to the Owner and the Architect before conditions are disturbed.

DIVISION 01- GENERAL REQUIREMENTS

SECTION 01100 - SUMMARY

- WORK BY OWNER: Coordinate the Work of this Contract with work performed by Owner.
- WORK UNDER SEPARATE CONTRACTS: Coordinate the Work of this Contract with work performed under separate contracts. Work may include, but is not limited to:
 - Hazardous Materials Abatement.
 - IT/Audio-Video/Security.
- OWNER-FURNISHED PRODUCTS: Owner will furnish products indicated. The Work includes receiving, unloading, handling, storing, protecting, and installing Owner-furnished products and making building service connections.
- ACCESS TO SITE:
 - General: Contractor shall have limited use of Project site for construction operations as indicated on Drawings and as indicated by requirements of this Section. Limit use of Project site to work in areas indicated. Do not disturb portions of Project site beyond areas in which the Work is indicated.
 - Condition of Existing Building: Maintain portions of existing building affected by construction operations in a weatheright condition throughout construction period. Repair damage caused by construction operations.
 - Partial Owner Occupancy: Owner will occupy the premises during entire construction period, except for areas under construction. Cooperate with Owner during construction operations to minimize conflicts and facilitate Owner usage. Perform the Work so as not to interfere with Owner's operations. Maintain existing exits unless otherwise indicated.
 - Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities. Do not close or obstruct walkways, corridors, or other occupied or used facilities without written permission from Owner and authorities having jurisdiction.
 - Provide not less than 48 hours' notice to Owner of activities that will affect Owner's operations.
 - Existing Utility Interruptions: Do not interrupt utilities serving facilities occupied by Owner or others unless permitted under the following conditions:
 - Notify Owner not less than 48 hours in advance of proposed utility interruptions.
 - Obtain Owner's written permission before proceeding with utility interruptions.

SECTION 012500 – SUBSTITUTION PROCEDURES

- SUBSTITUTIONS FOR CAUSE: Submit requests for substitution immediately on discovery of need for change, but no later than 15 days prior to time required for preparation and review of related submittals.
- SUBSTITUTIONS FOR CONVENIENCE: Architect will consider requests for substitution if received within 15 working days after Notice to Proceed. Requests received after that time may be considered or rejected at discretion of architect.

SECTION 012600 – CONTRACT MODIFICATION PROCEDURES

- MINOR CHANGES IN THE WORK: Architect will issue supplemental instructions authorizing minor changes in the Work, not involving adjustment to the Contract Sum or the Contract Time.
- PROPOSAL REQUESTS: Provide a detailed description of any proposed changes in the Work that may require adjustment to the Contract Sum or the Contract Time. Proposal Requests are not instructions or authorizations either to stop work in progress or to execute the proposed change.
- CHANGE ORDERS: On Owner's approval of a Proposal Request, a Change Order for signatures of Owner and Contractor will be issued on AIA G701 or other form acceptable to the Architect.

SECTION 013100 – PROJECT MANAGEMENT AND COORDINATION

- GENERAL COORDINATION PROCEDURES:
 - Coordinate construction operations to ensure efficient and orderly installation of each part of the Work. Schedule construction operations in sequence required to obtain the best results where installation of one part of the Work depends on installation of other components, before or after its own installation.
 - Prepare memoranda for distribution to each party involved, outlining special procedures required for coordination. Include such items as required notices, reports, and list of attendees at meetings.
- REQUESTS FOR INTERPRETATION (RFI): Immediately on discovery of the need for interpretation of the Contract Documents, prepare and submit an RFI in form acceptable to the Architect. Allow five (5) working days for Architect's response for each RFI.
- PROJECT MEETINGS: Schedule and conduct meetings and conferences at Project site. Notify Owner and Architect of scheduled meeting dates and times. Prepare the meeting agenda and distribute to all invited attendees. Record significant discussions and agreements achieved and distribute the meeting minutes to all attendees, including Owner and Architect, within three (3) days of the meeting.

SECTION 013200 – CONSTRUCTION PROGRESS DOCUMENTATION

- CONTRACTOR'S CPM CONSTRUCTION SCHEDULE: Submit a comprehensive construction schedule listing all activities required to complete the Work, identifying probable critical paths.
 - Indicate estimated time duration, sequence requirements, and relationship of each activity in relation to other activities. Reflect estimated time frames for the following, including but not limited to; preparation and processing of submittals, mobilization and demobilization, purchase of materials, delivery, fabrication, utility interruptions, installation, testing.

SECTION 013300 – SUBMITTAL PROCEDURES

- SUBMITTAL SCHEDULE: Submit a schedule of submittals, arranged in chronological order by dates required by construction schedule. Include time required for review, ordering, manufacturing, fabrication, and delivery when establishing dates. Include additional time required for making corrections or revisions to submittals noted by Architect, and additional time for handling and reviewing submittals required by these corrections.

2. COORDINATION:

- Coordinate preparation and processing of submittals with performance of construction activities.
 - Coordinate transmittal of different types of submittals for related parts of the Work so processing will not be delayed because of need to review submittals concurrently for coordination. The Architect reserves the right to withhold action on a submittal requiring coordination with other submittals until related submittals are received.
- PROCESSING TIME: Allow time for submittal review, including time for resubmittals, as follows> Time for review shall commence on Architect's receipt of submittal. No extension of the Contract Time will be authorized because of failure to transmit submittals enough in advance of the Work to permit processing, including resubmittals.
 - Initial Review: Allow 15 calendar days for initial review of each submittal. Allow additional time if coordination with subsequent submittals is required. Architect will advise Contractor when a submittal being processed must be delayed for coordination.
 - Intermediate Review: If intermediate submittal is necessary, process it in same manner as initial submittal.
 - Resubmittal Review: Allow 10 working days for review of each submittal.

- ELECTRONIC SUBMITTALS: Transfer submittals electronically using the Architect's NEWFORMA project information management software with the transmittal typed directly into the NEWFORMA software, or as a PDF attachment. At the Architect's discretion, email or other electronic transfer method may be permitted.

- Assemble complete submittal package into a single PDF file incorporating submittal requirements of a single Specification Section. At the Architect's discretion, multiple PDFs in a submittal package may be permitted.
- Name file with the specification Section number, including a revision identifier (e.g. 042000 Unit Masonry-01).
- Resubmittals shall include an alphabetic suffix (e.g. 042000 Unit Masonry-01-A).
- Provide Contractor's review and approval markings on each submittal. Submittals without markings will be returned without review.

5. SUBMITTAL PROCEDURES:

- Product Data: Mark submittal to show which products and options are applicable.
- Shop Drawings: Prepare Project-specific information, drawn accurately to scale. Fully illustrate requirements in the Contract Documents, including identification of products, schedules, compliance with specified standards, notation of coordination requirements, notation of dimensions established by field measurement, relationship and attachment to adjoining construction clearly indicated, seal and signature of professional engineer if specified.
- Samples: Submit samples for review of kind, color, pattern, and texture for a check of these characteristics with other elements and for a comparison of these characteristics between submittal and actual component as delivered ans installed.
 - Samples for Initial Selection: Submit one (1) set of manufacturer's color charts or sample chains showing the full range of colors, textures, and patterns available.
 - Samples for Verification: Submit full-size units or samples of size indicated, prepared from same material to be used for the Work, cured and finished in manner specified, and physically identical with material or product proposed for use, and that show full range of color and texture variations expected.
 - Submit two (2) sets of samples. Architect will retain one Sample, and remainder will be returned.
 - Retain returned samples in a secure location during construction for on-site reference and turn over all samples to the Owner at Project completion as a project record sample.

SECTION 014000 – QUALITY REQUIREMENTS

- QUALITY CONTROL: Testing and inspecting services are required to verify compliance with requirements specified or indicated. These services do not relieve Contractor of responsibility for compliance with the Contract Document requirements.
 - Owner Responsibilities: Where quality-control services are indicated as Owner's responsibility, Owner will engage a qualified testing agency to perform these services.
 - Contractor Responsibilities: Tests and inspections not explicitly assigned to Owner are Contractor's responsibility. Perform additional quality-control activities required to verify that the Work complies with requirements, whether specified or not.

SECTION 015000 – TEMPORARY FACILITIES AND CONTROLS

- USE CHARGES: Use charges for temporary facilities shall be included in the Contract Sum unless otherwise indicated. Allow other entities to use temporary facilities and facilities and services and facilities, but not limited to, Owner's construction forces, Architect, occupants of Project, testing agencies, and authorities having jurisdiction.
- INFORMATIONAL SUBMITTALS:
 - Site Plan: Show temporary facilities, utility hookups, staging areas, and parking areas for construction personnel.
 - Fire-Safety Program: Show compliance with requirements of NFPA 241 and authorities having jurisdiction. Indicate Contractor personnel responsible for management of fire-prevention program.
 - Moisture Protection Plan: Describe procedures and controls for protecting materials and construction from water absorption and damage.
 - Dust- and HVAC-Control Plan: Submit narrative that indicates dust- and HVAC- control measures proposed for use, proposed locations, and proposed time frame for their operation. Include locations of dust-control partitions, HVAC system isolation diagram, waste handling procedures, and other dust-control measures.
- QUALITY ASSURANCE:
 - Electric Service: Comply with NECA, NEMA, and UL standards and regulations for temporary electric service. Install service to comply with NFPA 70.
 - Tests and Inspections: Arrange for authorities having jurisdiction to test and inspect each temporary utility before use. Obtain required certifications and permits.
- TEMPORARY FACILITIES:
 - Storage and Fabrication Sheds: Provide sheds sized, furnished, and equipped to accommodate materials and equipment for construction operations.
 - Store combustible materials apart from building.
- EQUIPMENT:
 - Fire Extinguishers: Portable, UL rated; with class and extinguishing agent as required by locations and classes of fire exposures.
 - Permanent HVAC System: IF Owner authorizes use of permanent HVAC system for temporary use during construction, provide filter with Merv of 3 at each return-air grille in system and remove at end of construction.
 - Air-Filtration Units: When required by Owner, provide primary and secondary HEPA-filter-equipped portable units with four-stage filtration. Provide single switch for emergency shutoff. Configure to run continuously.
- SECURITY AND PROTECTION:
 - Protection of Existing Facilities: Protect existing vegetation, equipment, structures, utilities, and other improvements at Project site and on adjacent properties, except those indicated to be removed or altered. Repair damage to existing facilities.
 - Security Enclosure and Lockup: Install temporary enclosure around partially completed areas of construction. Provide lockable entrances to prevent unauthorized entrance, vandalism, theft, and similar violations of security. Lock entrances at end of each work day.
 - Barricades, Warning Signs, and Lights: Comply with requirements of authorities having jurisdiction for erecting structurally adequate barricades, including warning signs and lighting.
 - Temporary Egress: Maintain temporary egress from existing occupied facilities as indicated and as required by authorities having jurisdiction.
 - Temporary Enclosures: Provide temporary enclosures for protection of construction, in progress and completed, from exposure, foul weather, other construction operations, and similar activities. Provide temporary weatheright enclosure for building exterior.
 - Temporary Partitions: Provide floor-to-ceiling dustproof partitions to limit dust and dirt migration and to separate areas occupied by Owner and tenants from fumes and noise.
 - Temporary Fire Protection: Install and maintain temporary fire-protection facilities of types needed to protect against reasonably predictable and controllable fire losses. Comply with NFPA 241; manage fire-prevention program.

SECTION 017300 – EXECUTION

- QUALITY ASSURANCE:
 - Cutting and Patching: Comply with requirements for and limitations on cutting and patching of construction elements.
 - Structural Elements: When cutting and patching structural elements, notify Architect of locations and details of cutting and await directions from Architect before proceeding. Shore, brace, and support structural elements during cutting and patching. Do not cut and patch structural elements in a manner that could change their load-carrying capacity or increase deflection.

- Operational Elements: Do not cut and patch operating elements and related components in a manner that results in reducing their capacity to perform as intended or that results in increased maintenance or decreased operational life or safety. Operational elements include the following:
 - Fire separation assemblies, air or smoke barriers, fire-suppression systems, mechanical systems piping and ducts, control systems, communication systems, fire-detection and -alarm systems, conveying systems, electrical wiring systems.
 - Other Construction Elements: Do not cut and patch other construction elements or components in a manner that could change their load-carrying capacity, that results in reducing their capacity to perform as intended, or that results in increased maintenance or decreased operational life or safety. Other construction elements include but are not limited to the following: water, moisture, or vapor barriers, membranes and flashings, Piping, ductwork, vessels, and equipment, noise- and vibration-control elements and systems.
- Visual Elements: Do not cut and patch construction in a manner that results in visual evidence of cutting and patching. Do not cut and patch existing construction in a manner that would, in Architect's opinion, reduce the building's aesthetic qualities. Remove and replace construction that has been cut and patched in a visually unsatisfactory manner.

- EXAMINATION AND ACCEPTANCE OF CONDITIONS: Before proceeding with each component of the Work, examine substrates, areas, and conditions, with Installer or Applicator present, for compliance with requirements for installation tolerances and other conditions affecting performance. Record observations.

- Examine mechanical and electrical rough-in to verify actual locations of connection before equipment and fixture installation.
- Examine walls, floors, and roofs for suitable conditions where products and systems are to be installed.
- Verify compatibility with and suitability of substrates, including compatibility with existing finishes or primers.

3. PREPARATION:

- Field Measurements: Take field measurements as required to fit the Work properly. Recheck measurements before installing each product. Where portions of the Work are indicated to fit to other construction, verify dimensions of other construction by field measurements before fabrication. Coordinate fabrication schedule with construction progress to avoid delaying the work.
- Space Requirements: Verify space requirements and dimensions of items shown diagrammatically on Drawings.
- Review of Contract Documents and Field Conditions: Immediately on discovery of the need for clarification of the Contract Documents caused by differing field conditions outside the control of Contractor, submit a request for interpretation (RFI) to Architect.

4. CONSTRUCTION LAYOUT:

- Verification: Before proceeding to lay out the Work, verify layout information shown on Drawings. IF discrepancies are discovered, notify Architect promptly.
 - Building Lines and Levels: Locate and lay out control lines and levels, including those required for mechanical and electrical work.
 - Use of Indelible Paints and Ink:
 - Use of indelible paint and ink for layout indicators on exposed concrete surfaces is prohibited. Use only removable marking products, if any, on exposed concrete surfaces.
5. INSTALLATION:

- General: Locate the Work and components of the Work accurately, in correct alignment and elevation, as indicated.
 - Make vertical work plumb and make horizontal work level.
 - Where space is limited, install components to maximize space available for maintenance and ease of removal for replacement.
 - Conceal pipes, ducts, and wiring in finished areas unless otherwise indicated.
 - Maintain minimum headroom clearance of 96 inches in occupied spaces and 90 in unoccupied spaces.
 - Comply with manufacturer's written instructions and recommendations for installing products in applications indicated.
 - Install products at the time and under conditions that will ensure the best possible results. Maintain conditions required for product performance until Substantial Completion.
 - Templates: Obtain and distribute to the parties involved templates for work specified to be factory prepared and field installed. Check Shop Drawings of the work to confirm that adequate provisions are made for locating and installing products to comply with indicated requirements.
 - Attachment: Provide blocking and attachment plates and anchors and fasteners of adequate size and number to securely anchor each component in place, accurately located and aligned with other portions of the Work. Where size and type of attachments are not indicated, verify size and type required for load conditions.
 - Joints: Make joints of uniform width. Where joint locations in exposed work are not indicated, arrange joints for the best visual effect. Fit exposed connections together to form hairline joints.
 - Hazardous Materials: Use products, cleaners, and installation materials that are not considered hazardous.
6. CUTTING AND PATCHING
- General: Employ skilled workers to perform cutting and patching. Proceed with cutting and patching at the earliest feasible time, and complete without delay.
 - Cut in-place construction to provide for installation of other components or performance of other construction and subsequently patch as required to restore surfaces to their original condition.
 - Existing Warranties: Remove, replace, patch, and repair materials and surfaces cut or damaged during installation or cutting and patching operations, by methods and with materials so as not to void existing warranties.
 - Temporary Support: Provide temporary support of work to be cut.
 - Protection: Protect in-place construction during cutting and patching to prevent damage. Provide protection from adverse weather conditions for portions of Project that might be exposed during cutting and patching operations.
 - Existing Utility Services and Mechanical/Electrical Systems: Where existing services/systems are required to be removed, relocated, or abandoned, bypass such services/systems before cutting to minimize interruption to occupied areas.
 - Cutting: Cut in-place construction by sawing, drilling, breaking, chipping, grinding, and similar operations, including excavation, using methods least likely to damage elements retained or adjoining construction. If possible, review proposed procedures with original Installer; comply with original Installer's written recommendations.
 - In general, use hand or small power tools designed for sawing and grinding, not hammering and chopping. Cut holes and slots neatly to minimum size required, and with minimum disturbance of adjacent surfaces. Temporarily cover openings when not in use.
 - Mechanical and Electrical Services: Cut off pipe or conduit in walls or partitions to be removed. Cap, valve, or plug and seal remaining portion of pipe or conduit to prevent entrance of moisture or other foreign matter after cutting.
 - Patching: Patch construction by filling, repairing, refinishing, closing up, and similar operations following performance of other work. Patch with durable seams that are as invisible as practicable. Provide materials and comply with installation requirements specified in other Sections, where applicable.
 - Exposed Finishes: Restore exposed finishes of patched areas and extend finish restoration into retained adjoining construction in a manner that will minimize evidence of patching and refinishing.
 - Clean piping, conduit, and similar features before applying paint or other finishing materials.
 - Restore damaged pipe covering to its original condition.
 - Floors and Walls: Where walls or partitions that are removed extend one finished area into another, patch and repair floor and wall surfaces in the new space. Provide an even surface of uniform finish, color, texture, and appearance. Remove in-place floor and wall coverings and replace with new materials, if necessary, to achieve uniform color and appearance.
 - Where patching occurs in a painted surface, prepare substrate and apply primer and intermediate paint coats appropriate for substrate over the patch, and apply final paint coat over entire unbroken surface containing the patch. Provide additional coats until patch blends with adjacent surfaces.
 - Ceilings: Patch, repair, or rehang in-place ceilings as necessary to provide an even-plane surface of uniform appearance.
 - Exterior Building Enclosure: Patch components in a manner that restores enclosure to a weathertight condition and ensures thermal and moisture integrity of building enclosure.
 - Cleaning: Clean areas and spaces where cutting and patching are performed. Remove paint, mortar, oils, putty, and similar materials from adjacent finished surfaces.

SECTION 0170700 – CLOSEOUT PROCEDURES

- FINAL CLEANING
- PROGRESS CLEANING: Clean Project site and work areas daily, including common areas. Enforce requirements strictly. Dispose of materials lawfully. Comply with requirements in NFPA 241 for removal of combustible waste materials and debris.

- General: Perform final cleaning. Conduct cleaning and waste-removal operations to comply with local laws and ordinances and Federal and local environmental and antipollution regulations.
- Cleaning: Employ experienced workers or professional cleaners for final cleaning. Clean each surface or unit to condition expected in an average commercial building cleaning and maintenance program. Comply with manufacturer's written instructions.
- Complete the following cleaning operations before requesting inspection for certification of Substantial Completion for entire Project or for a designated portion of Project:
 - Sweep paved areas broom clean. Remove petrochemical spills, stains, and other foreign deposits.
 - Remove tools, equipment, machinery, and surplus material from Project site.
 - Clean exposed exterior and interior hard-surfaced finishes to a dirt-free condition, free of stains, films, and similar foreign substances. Avoid disturbing natural weathering of exterior surfaces. Restore reflective surfaces to their original condition.
 - Remove debris and surface dust from limited access spaces, including roofs, plenums, shafts, trenches, equipment vaults, manholes, attics, and similar spaces.
 - Sweep concrete floors broom clean in unoccupied spaces.
 - Vacuum carpet and similar soft surfaces, removing debris and excess nap; clean according to manufacturer's recommendations if visible soil or stains remain.
 - Clean transparent materials, including mirrors and glass in doors and windows. Remove glazing compounds and other noticeable, vision-obscuring materials. Polish mirrors and glass, taking care not to scratch surfaces.
 - Remove labels that are not permanent.
 - Wipe surfaces of mechanical and electrical equipment, and similar equipment. Remove excess lubrication, paint and mortar droppings, and other foreign substances.
 - Clean plumbing fixtures to a sanitary condition, free of stains, including stains resulting from water exposure.
 - Replace discolored air filters and clean permanent air filters. Clean exposed surfaces of diffusers, registers, and grills.
 - Clean light fixtures, lamps, globes, and reflectors to function with full efficiency.
 - Leave Project clean and ready for occupancy.

DIVISION 02 – EXISTING CONDITIONS

SECTION 024119 – SELECTIVE DEMOLITION

- PRE-DEMOLITION CONFERENCE: Conduct conference at Project Site. Inspect and discuss condition of construction to be selectively demolished. Review areas where existing construction is to remain and requires protection.
- EXAMINATION:
 - Review record documents of existing construction provided by Owner. Owner does not guarantee that existing conditions are same as those indicated in record documents.
 - Survey existing conditions and correlate with requirements indicated to determine extent of selective demolition required.
 - When unanticipated mechanical, electrical, or structural elements that conflict with intended function or design are encountered, investigate and measure the nature and extent of conflict. Promptly submit a written report to Architect.
- SURVEY OF EXISTING CONDITIONS: Record existing conditions by use of preconstruction photographs.
- EXISTING UTILITIES AND MECHANICAL/ELECTRICAL SYSTEMS: Maintain services/systems indicated to remain and protect them against damage.
- DEMOLITION: Demolish and remove existing construction only to the extent required by new construction and as indicated. Use methods required to complete the Work within limitations of governing regulations and as follows:
 - Neatly cut openings and holes plumb, square, and true to dimensions required. Use cutting methods least likely to damage construction to remain or adjoining construction.
 - Cut or drill from the exposed or finished side into concealed spaces to avoid marring existing finished surfaces.
 - Do not use cutting torches until work area is cleared of flammable materials. At concealed spaces, such as duct and pipe interiors, verify condition and contents of hidden space before starting flame-cutting operations. Maintain portable fire-suppression devices during flame-cutting operations.
 - Existing Items to Remain: Protect construction indicated to remain against damage and soiling during selective demolition. When permitted by Architect, items may be removed to a suitable, protected storage location during selective demolition and cleaned and reinstalled in their original locations after selective demolition operations are complete.
- HAZARDOUS MATERIALS: It is not expected that hazardous materials will be encountered. If encountered, hazardous materials will be removed by Owner under a separate contract.

DIVISION 03-CONCRETE

SECTION 033000 – CAST-IN-PLACE CONCRETE

- GENERAL: Include cast-in-place concrete, formwork, reinforcement, concrete materials, mixture design, placement procedures, and finishes.
 - The scope of work shall include all labor, materials, equipment, and services required for concrete work indicated on the drawings, or as may otherwise be required to complete the project
 - The latest ACI standards (American Concrete Institute) and building code requirements shall govern all concrete work.
 - The contractor is responsible for correction of concrete work which does not conform to the specification requirements, including strength, tolerances, configuration, and finishes
- PRODUCTS:
 - ACI PUBLICATIONS: Comply with ACI 301 and ACI 117 unless modified by requirements in the Contract Documents.
 - CONCRETE MIXTURES: Provide concrete mixtures in accordance with requirements listed on the structural drawings, but not less than as follows if not otherwise indicated:
 - Minimum Compressive Strength: 4000 psi.
 - Maximum W/C Ratio: 0.45.
 - REINFORCING STEEL: All reinforcing steel shall be in accordance with requirements listed on the structural drawings.
 - INTERIOR SLABS ON GRADE: Where interior concrete slabs-on-grade are removed and replaced, include installation of the following:
 - Sheet Vapor Retarder: ASTM E 174, Class A, minimum 15 mils thickness except with maximum water-vapor permeance of 0.01 perms. Seal to any existing vapor retarder or perimeter foundation with manufacturer's recommended adhesive or pressure-sensitive tape. Seal all seams and penetrations.
 - Reinforcing bars: ASTM A 615/A 615M, Grade 60, drilled and grouted into the existing slab at 24 inches o.c. along the entire perimeter of the patch, penetrating the existing slab not less than 6 inches and extending into the patch area.
 - Welded Wire Fabric: Also provide 6 inch x 6 inch W2.9 x W2.9 WWF for areas in excess of ten (10) square feet.

DIVISION 05 - METALS

SECTION 055000 - METAL FABRICATIONS

- SUMMARY: Provide metal fabrications indicated on the Drawings, which may include, but is not limited to the following:
 - Steel framing and supports for countertops.
 - Steel tube reinforcement for low partitions.
 - Steel framing and supports for mechanical and electrical equipment.
 - Steel framing and supports for applications where framing and supports are not specified in other sections.
 - All other miscellaneous angles, channels, tubes and plates as indicated or required.
- REFERENCES
 - Reference Standards:
 - AWS D1.1 Structural Welding – Steel.
- SUBMITTALS
 - Submit shop Drawings for all metal fabrications.
- QUALITY CONTROL
 - Welder shall be currently qualified according to AWS D1.1.
- DELIVERY, STORAGE AND HANDLING
 - General:
 - Store metals above ground on platforms, skids, or other supports. Protect steel from corrosion.

Reviewed for Code Compliance

6/19/2023

STATE OF COLORADO
ERIC P. SMITH
B-1112
JUNE 17 2022
LICENSED ARCHITECT

NOTICE/DUTY OF COOPERATION

Release of these plans contemplates further cooperation among the owner, his contractor and the architect. Design and construction are complex. Although the architect and the consultants have performed their services with due care and diligence, they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated. Any ambiguity or discrepancy discovered by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds misunderstanding and increases construction costs. A failure to cooperate by a simple notice to the architect shall relieve the architect of responsibility for all consequences arising out of such changes.

All design, documents and data prepared by Eric Smith Associates, P.C. as instruments of service shall remain property of Eric Smith Associates, P.C. and shall not be copied, changed or disclosed in any form whatsoever without first obtaining the express written consent of Eric Smith Associates, P.C.

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Job Number: 22016
Date: 6/17/22
Drawn By: Author
Checked By: Checker

Project Phase

CONSTRUCTION

Sheet Title

SPECIFICATIONS

Sheet Number

AG004

1. Color Schedule is provided on the Finish Material Schedule on the Drawings. Where use of other manufacturer's materials is permitted by the Schedule, colors must match those selected and samples will be required by the Architect.
- C. Paint and Stain Samples:
 1. Provide two (2) 12" x 12" brush out samples of each color on the schedule on the actual materials to be painted or stained to the Architect for approval prior to commencing painting or staining work.
2. PRODUCTS
 - A. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on drawings, or approved substitution from one of the following:
 1. Benjamin Moore.
 2. PPG.
 3. Sherwin Williams.
 - B. Interior Paint Schedule:
 1. Gypsum Board: Eggshell, Acrylic Enamel: 2 coats over primer.
 2. Ferrous Metal: Semi-Gloss, Acrylic Enamel: 2 coats over primer.
3. INSTALLATION
 - A. Painting Contractor shall examine surfaces scheduled to receive paint and finishes for conditions that will adversely affect execution, permanence, or quality of work and which cannot be put into an acceptable condition through normal preparatory work. The contractor shall not proceed with surface preparation or coating application until conditions are suitable. Report unsatisfactory conditions in writing to the General Contractor with copy to the Architect.
 - B. Beginning of application means acceptance of existing surfaces.
 - C. Existing Surfaces:
 1. If the surfaces are not in proper shape for painting, repair, rebuild, or refinish before proceeding with the work. Be responsible for any poor work caused by improper surfaces. The application of the first coat does not relieve the responsibility for the base. Do not apply coat on either damp or wet surfaces and in no case until the preceding coat is dry and hard.
 - D. Application: Spread all materials evenly without runs or sagging of material and thoroughly brush out. Sand work between coats.
 - E. Wood Doors: finish the upper and lower edges of wood doors the same as the face. Do this work after doors have been fitted and are ready for final hanging.
 - F. Finish coat shall be in color selected. Tint primers to match finish coat.
 - G. All paint or enamel is to be rolled on, using a fine nap roller so a nearly flat or orange-peel texture is obtained; if sprayed, surface shall be back-rolled.
 - H. At the completion of work, remove all surplus materials, staging, rubbish; clean off all paint, varnish, and stains from floors, glass, walls, hardware; and leave the premises in clean condition.
 - I. Extra paint: At the completion of paintings, deliver to the Owner one full, unopened gallon of each paint color and type used along with the color formula for each type, along with all remaining unused stock remaining from painting operations. High performance and elasticomeric coatings are not included.

DIVISION 10 – SPECIALTIES

SECTION 101423 – PANEL SIGNAGE

1. GENERAL
 - A. Work includes all labor, material, and equipment necessary to furnish and install interior graphic and directional signage at locations identified on the drawings.
 - B. Signage supplied shall comply with the requirements of ICC/ANSI A117.1, 2003 Edition.
2. PRODUCTS
 - A. Interior signage shall be acrylic plaques with room names, universal symbols, and shall have 1/32" raised graphics and grade II braille panels permanently bonded to 1/2" acrylic back plates.
 - B. Signage shall be manufacturer's standard dimensions for text and characters required and shall be fabricated with radius corners. Colors will be selected by the Architect from manufacturer's standard offering.
 - C. Signs will be installed with manufacturer's standard mechanical fastening system.
 - D. Refer to Door Hardware Schedule on the drawings for signage locations.
 1. Accessible Braille
 2. Location Text Symbol Panel
3. INSTALLATION
 - A. Install on door to each room listed in accordance with manufacturer's written instructions.

SECTION 102600 – WALL AND DOOR PROTECTION

1. GENERAL
- A. Work includes all labor, material, and equipment necessary to furnish and install wall and door protection indicated on Drawings, including:
1. Corner guards.
 2. Impact resistant wall covering.
 3. Handrails.
 4. Door protection (products other than those specified as Door Hardware).
- B. Submittals:
1. Product data, including construction details, material descriptions, impact strength, fire-test response characteristics, dimensions, components, profiles, and finishes for each type of wall/door protection.
 2. Shop Drawings: Show locations and extent. Include sections, details, and attachments to other work.
 3. Samples: For each type of exposed finish required, including examples of joinery, corners, caps, and field splices.
2. PRODUCTS:
- A. Basis-of-Design: Subject to compliance with requirements provide products indicated on Drawings, or approved substitution.

SECTION 104413 – FIRE PROTECTION CABINETS

1. GENERAL
 - A. Work includes all labor, material, and equipment and services necessary for furnishing and installing fire extinguisher cabinets at locations directed by the Architect and the Fire Department A.H.J.
 - B. Obtain fire extinguisher cabinets from a single source and from a single manufacturer.
2. PRODUCTS
 - A. Manufacturers: Subject to compliance with requirements, provide products by one of the following, or approved substitution:
 1. J.L. Industries.
 2. Larsen's Manufacturing Company.
 - B. Cabinet Types:
 1. Recessed: exposed flat trim, one-piece combination trim and perimeter door frame overlapping surrounding wall surface. Basis-of-Design: Larsen's FS 2409-R2.
 2. Semi-Recessed: One-piece combination trim and perimeter door frame overlapping surrounding wall return at outer edge (backend). Basis-of-Design: Larsen's FS 2409-R5.
 3. Surface-Mounted: Cabinet box fully exposed and mounted directly on wall with no trim. Basis-of-Design: Larsen's FS 2409-SM

SECTION 104416 - FIRE EXTINGUISHERS

- ## 1. GENERAL

- A. Work includes all labor, material, and equipment and services necessary for furnishing and installing bracket mounted fire extinguishers at locations directed by the Architect and the Fire Department AHJ.
- B. Obtain fire extinguishers and brackets from a single source and from a single manufacturer.
- C. Fire extinguishers shall be UL listed and bear the UL "Listing Mark" for type, rating, and classification of extinguisher.

2. PRODUCTS

- A. Manufacturers: Subject to compliance with requirements, provide products by one of the following, or approved substitution:
1. J.L. Industries.
 2. Larsen's Manufacturing Company.
- B. Fire Extinguisher types:
1. Portable, hand-carried, multipurpose dry-chemical type:
 - a. UL rated 2-A:10-B-C, 5 lb., nominal capacity, in enameled steel container.
 - b. UL-rated 4-A:80-B-C, 10 lb., nominal capacity, in enameled steel container.
 2. Portable, hand-carried, wet-chemical type K, UL-rated 2-A:1-B:CLK, 1.6 gal. (6-L) nominal capacity, with potassium acetate in stainless-steel container.

3. INSTALLATION

- A. Install at heights complying with applicable regulations of governing authorities.
- B. Securely fasten mounting brackets and fire extinguishers to structure, square and plumb, to comply with manufacturer's instructions.
- C. Locate as directed by the Architect and/or the Denver Fire Department.
- D. Leave fire extinguishers fully charged after installation.

SECTION 102800 – TOILET, BATH, AND LAUNDRY ACCESSORIES

1. GENERAL
 - A. Work includes all labor, material and equipment necessary for furnishing and installing accessories in toilet rooms and janitor's closets.
2. MANUFACTURERS
 - A. Basis-of-Design Products: Subject to compliance with requirements, provide products indicated on Drawings or approved substitution by one of the following:
 1. American Specialties, Inc.
 2. Bobrick Washroom Equipment, Inc.
 3. Bradley Corp.
 - B. Furnish concealed mounting devices and fasteners as recommended by manufacturer.
 - C. Furnish exposed mounting devices and fasteners finished to match the accessories
3. INSTALLATION
 - A. Fasten all accessories rigidly and securely to walls or toilet partitions using methods and materials recommended by manufacturer.
 - B. Use concealed fastenings wherever possible.
 - C. Provide anchors, bolts and other anchorages, and attach accessories securely to walls and partitions in locations as shown or directed.

DIVISION 11 – EQUIPMENT

SECTION 113100 – RESIDENTIAL APPLIANCES

1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on drawings, or approved substitution.

DIVISION 12 – FURNISHINGS

SECTION 122200 - CURTAINS AND DRAPES

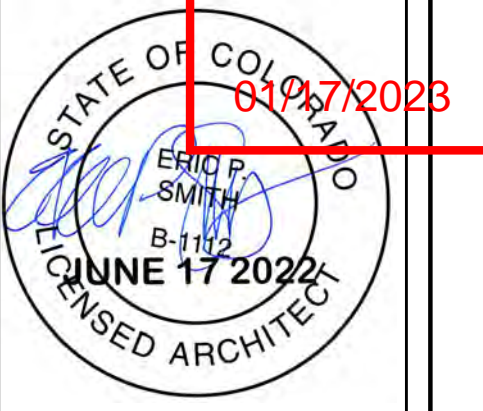
1. Basis-of-Design Product: Subject to compliance with requirements, provide product indicated on drawings, or approved substitution.

SECTION 123623.13 - PLASTIC-LAMINATE-CLAD COUNTERTOPS

1. Description: Plastic laminate over wood fiber particleboard: ANSI A208.1, Grade M-2.

SECTION 123661.16 - SOLID SURFACING COUNTERTOPS

1. Description: Homogenous-filled plastic resin with laminated edge, countertops.
2. Basis of Design: Corian.



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Eric Smith Associates, P.C.

[illegible]

YVMC Mountain Clinic
2305 Mount Werner Circle
Suite P.027
Steamboat Springs, Colorado



Job Number:	22016
Date:	6/17/22
Drawn By:	Author
Checked By:	Checker

Project Phase
CONSTRUCTION
Sheet Title
SPECIFICATIONS
Sheet Number
AG009

Door Schedule										
Door Number	Type	Door					Hardware	Frame		Comments
		Width	Height	Thickness	Material	Finish		Material	Finish	
101	3	3' - 0"	8' - 0"	0' - 1 3/4"	WD		05	HM	P5	CLASSROOM FUNCTION LOCKSET
102	1	3' - 0"	8' - 0"	0' - 0"				HM	P5	CASED OPENING
103	2	6' - 0"	8' - 0"	0' - 2"	WD		SL	GYP. BD. WRAP	P1	G.C. TO PROVIDE LAMINATE TRIM TO CONCEAL TOP TRACK OF DOOR
104	1	3' - 0"	8' - 0"	0' - 1 3/4"	WD		03	HM	P5	PRIVACY FUNCTION LOCKSET
105	2	6' - 0"	8' - 0"	0' - 2"	WD		SL	GYP. BD. WRAP	P1	G.C. TO PROVIDE LAMINATE TRIM TO CONCEAL TOP TRACK OF DOOR
106	1	3' - 0"	8' - 0"	0' - 1 3/4"	WD		06	HM	P5	STORAGE FUNCTION LOCKSET
108	3	3' - 0"	8' - 0"	0' - 1 3/4"	WD		08	HM	P5	CYPHER LOCK
109	1	3' - 0"	8' - 0"	0' - 1 3/4"	WD		07	HM	P5	CYPHER LOCK
110	1	3' - 0"	8' - 0"	0' - 1 3/4"	WD		04	HM	P5	CLASSROOM FUNCTION LOCKSET
111	1	3' - 0"	8' - 0"	0' - 1 3/4"	WD		01	HM	P5	PASSAGE FUNCTION LOCKSET
112	1	3' - 0"	8' - 0"	0' - 1 3/4"	WD		01	HM	P5	PASSAGE FUNCTION LOCKSET
113	1	3' - 0"	8' - 0"	0' - 1 3/4"	WD		01	HM	P5	PASSAGE FUNCTION LOCKSET
114	4	3' - 0"	8' - 0"	0' - 1 3/4"	WD		02	HM	P5	PASSAGE FUNCTION LOCKSET

DOOR NOTES:
1. SUPPLY AND INSTALL DOOR STOPS, SILENCERS, AND 3 HINGES AT NEW SWINGING DOORS.
2. PROVIDE LOCKSET AS NOTED IN SCHEDULE.
3. PROVIDE CLOSER ONLY WHERE NOTED IN SCHEDULE.
4. ALL DOOR FRAMES TO BE WELDED. K.D. FRAMES ARE NOT ACCEPTABLE.

PLAN NOTES:

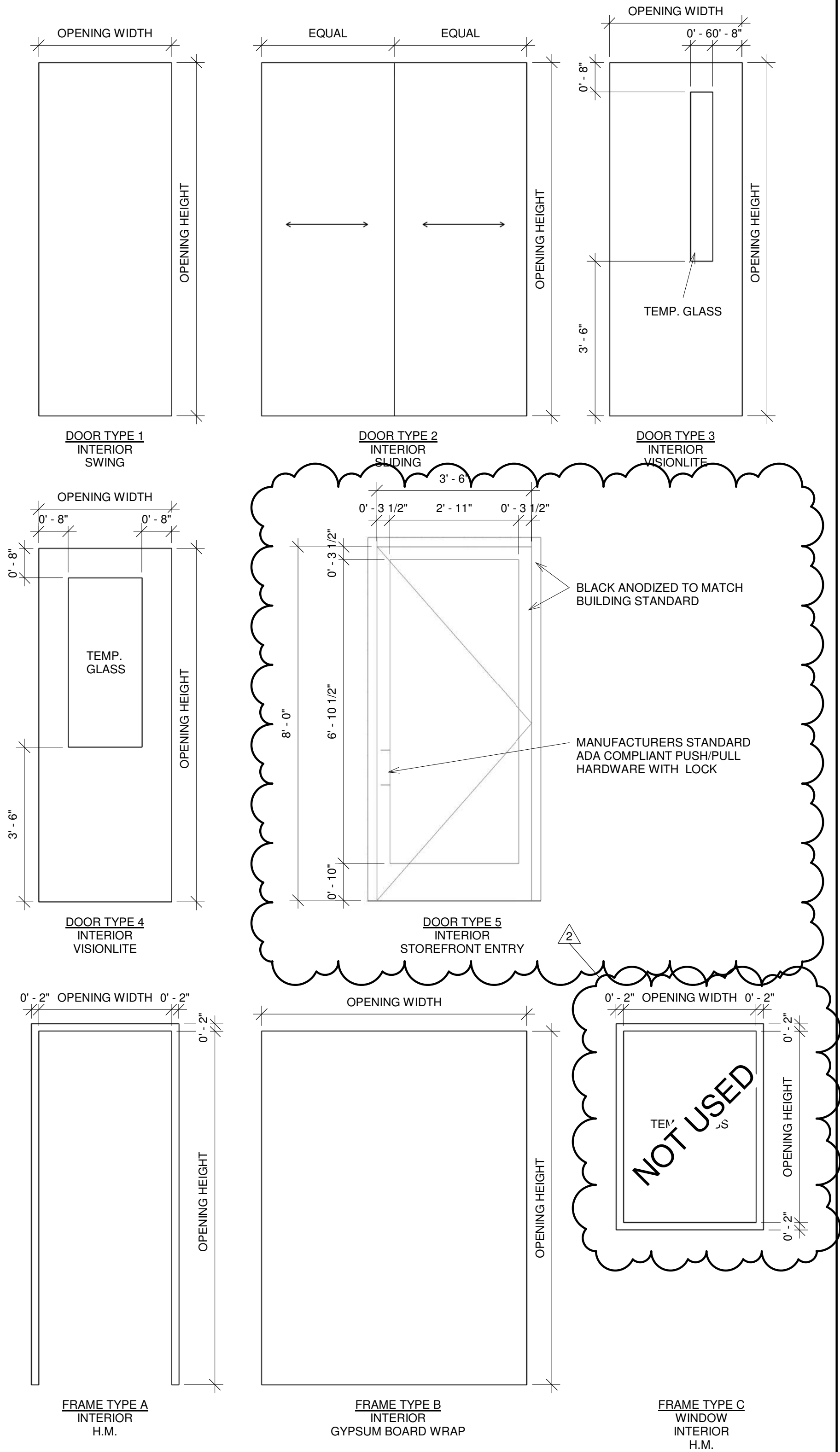
GENERAL NOTES:

PROVIDE BLOCKING AT ALL WALL MOUNTED ACCESORITES, HARDWARE AND WALL HUNG CABINETRY.
VERIFY AND COORDINATE ALL REQUIREMENTS FOR OWNER FURNISHED ITEMS PRIOR TO PERFORMING ANY WORK THAT INVOLVES THOSE ITEMS.
PROVIDE PAINTED ACCESS PANELS IN WALLS AND CEILINGS AT CONCEALED ITEMS SUCH AS VALVES, CONTROLS, SWITCHES OR ANY ITEMS THAT REQUIRE ACCESS. G.C. TO DETERMINE ACCESS PANEL LOCATIONS WITH ARCHITECT PRIOR TO INSTALLATION.
REFER TO SHEET AG003 FOR PARTIONS TYPE INFORMATION

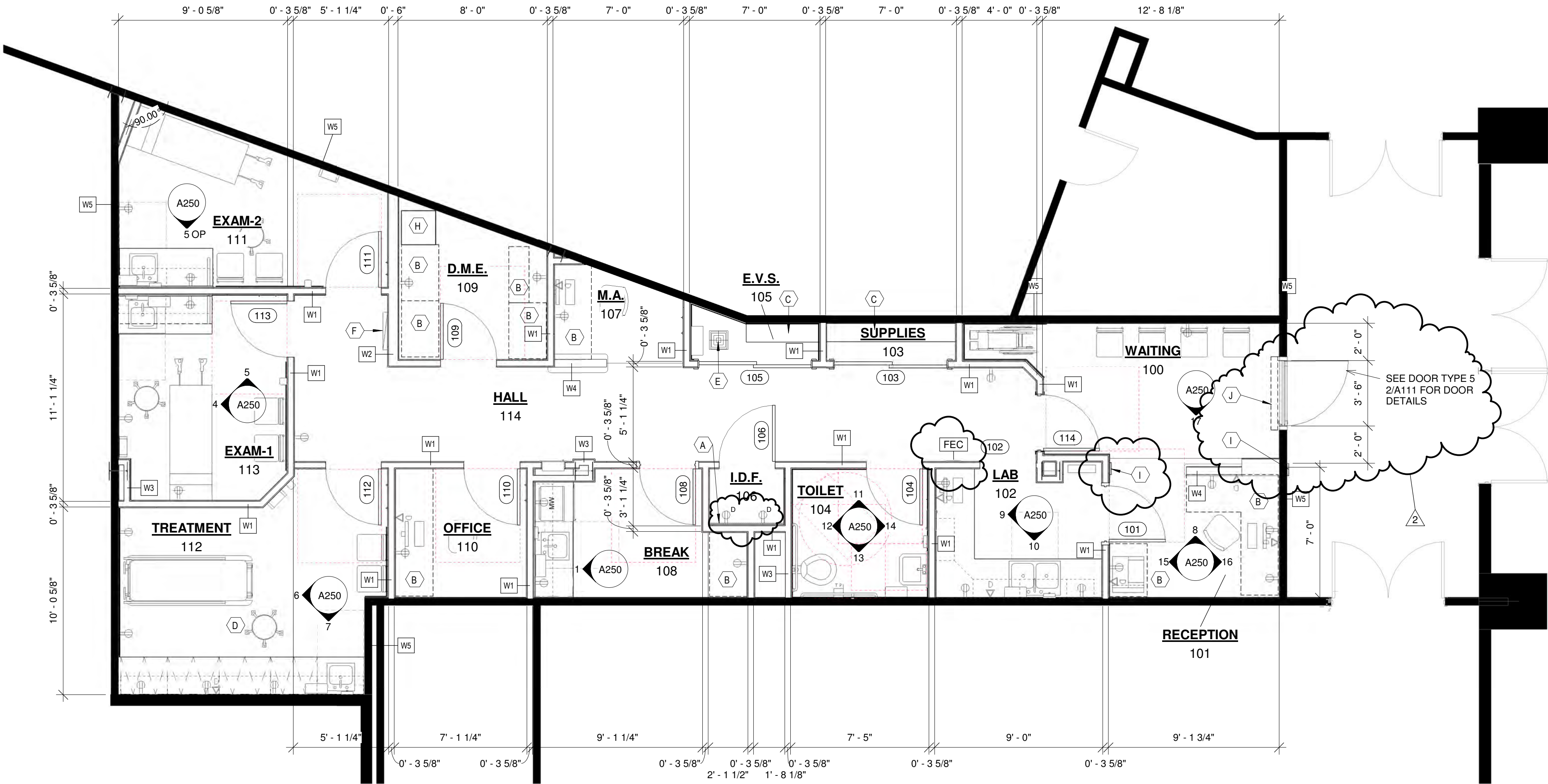
PLAN NOTES:

- A. G.C. TO SUPPLY AND INSTALL 4 X 8 SHEET FIRE REDARDANT PLYWOOD. PAINT WHITE LEAVING AT LEAST ONE LABEL EXPOSED. SET BOTTOM OF SHEET AT TOP OF BASE.
B. FURNITURE SUPPLIED AND INSTALLED BY OWNER.
C. G.C. TO SUPPLY AND INSTALL (6) 12" DEEP PLASTIC LAMINATE SHLEVES ON HEAVY DUTY STANDARDS AND BRACKETS
D. LIMITED NURSE CALL SYSTEM. G.C. TO COORDINATE WITH USERS
E. FLOOR SINK
F. SEMI-RECESSED ELECTRICAL PANEL
G. CUT OPENING IN EXISTING PARTITION FOR NEW WINDOW. SUPPLY AND INSTALL TEMPERED GLASS IN ALUMINUM STOREFRONT TO MATCH BUILDING STANDARD.

- H. TRANSFORMER, RE: ELECTRICAL
I. PUSH PLATE FOR ENTRY DOOR OPERATOR
J. HORTON EASY ACCESS S7100 MEDIUM DUTY LOW ENERGY DOOR OPERATOR WITH PUSH PLATE ACTIVATION



2 DOOR/WINDOW AND FRAME TYPES
1/2" = 1'-0"



SEE FINISH PLAN FOR ACCESSORIES AND EQUIPMENT INFORMATION



LOWER LEVEL
1" = 100'-0"

Reviewed for Code Compliance

07/28/2023

STATE OF COLORADO

ERIC P. SMITH

B-1112

OCT. 28 2022

REGISTERED ARCHITECT

NOTICE: DUTY OF COOPERATION

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Eric Smith Associates, P.C.

REVISIONS

No.	Description	Date
2	OWNER REVISION	10/28/22

YVMC Mountain Clinic

2305 Mount Werner Circle

Suite P.027

Steamboat Springs, Colorado

ES

ERIC SMITH ASSOCIATES, P.C.

1919 SEVENTH STREET

BOULDER, COLORADO, 80302

(303) 442-5458, (303) 442-4745 FAX

Job Number: 22016

Date: 10/28/22

Drawn By: JP

Checked By: Checker

Project Phase

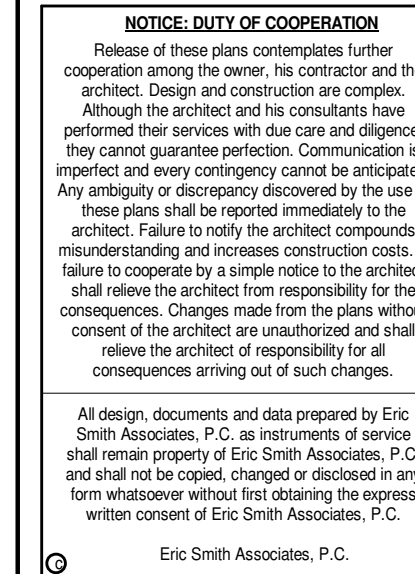
OWNER REVISIONS

Sheet Title

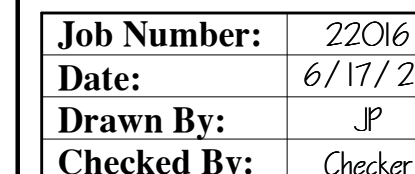
CONSTRUCTION PLAN

Sheet Number

A111

[illegible]

VMC Mountain Clinic
2305 Mount Werner Circle
Suite P.027
Steamboat Springs, Colorado



Sheet Title
REFLECTED CEILING- FINISH PLANS

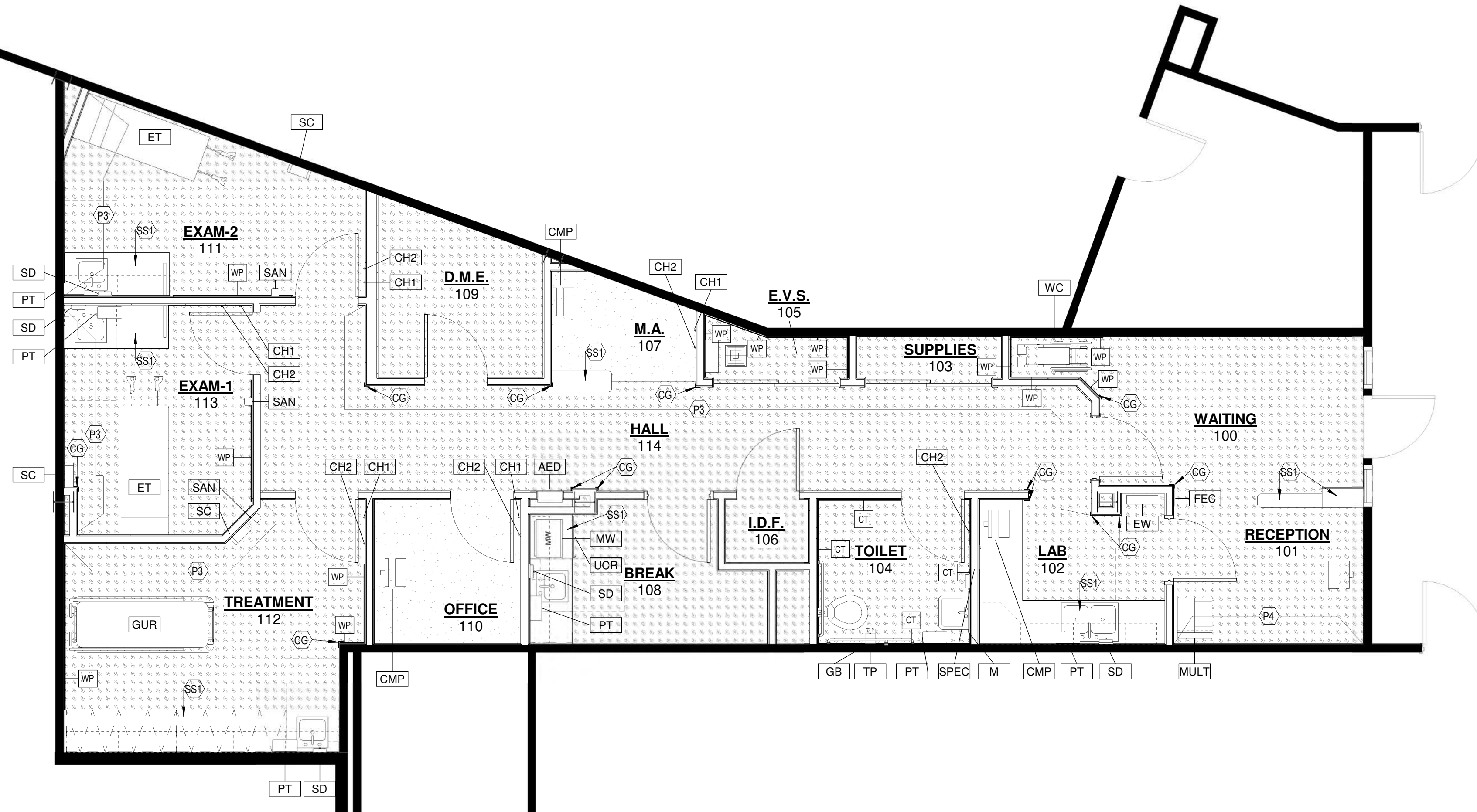
A192

- ☐ LUXURY VINYL TILE
- ☐ CARPET TILE

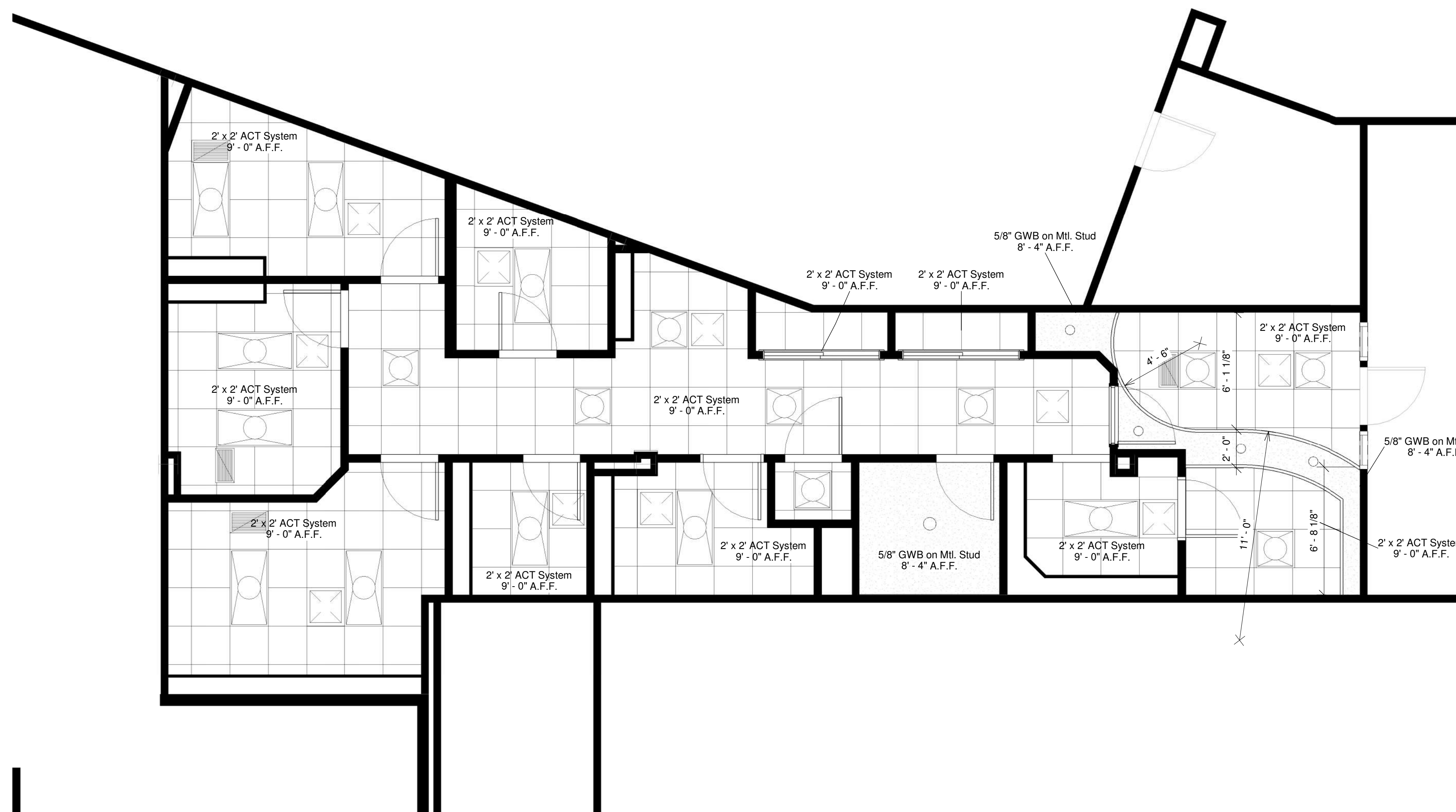
CORNER GU

Room Schedule						
Room Number	Room Name	Floor Finish	Base Finish	Wall Finish	Ceiling Finish	Comments
100	WAITING	SV	RCB	P1/WP	ACT/GYP	ENPRO WALL PROTECTION WHERE NOTED
101	RECEPTION	CPT	RCB	P1	ACT/GYP	
102	LAB	SV	RCB	P1	ACT	
103	SUPPLIES	SV	RCB	P1	ACT	
104	TOILET	SV	CT	CT/P2	GYP	
105	E.V.S.	SV	RCB	P1/WP	ACT	ENPRO WALL PROTECTION WHERE NOTED
106	I.D.F.	SDT	RCB	P1	ACT	
107	M.A.	CPT	RCB	P1	ACT	
108	BREAK	SV	RCB	P1	ACT	
109	D.M.E.	SV	RCB	P1	ACT	
110	OFFICE	CPT	RCB	P1	ACT	
111	EXAM-2	SV	RCB	P1/WP	ACT	ENPRO WALL PROTECTION WHERE NOTED
112	TREATMENT	SV	RCB	P1/WP	ACT	ENPRO WALL PROTECTION WHERE NOTED
113	EXAM-1	SV	RCB	P1/WP	ACT	ENPRO WALL PROTECTION WHERE NOTED
114	HALL	SV	RCB	P1/WP	ACT	

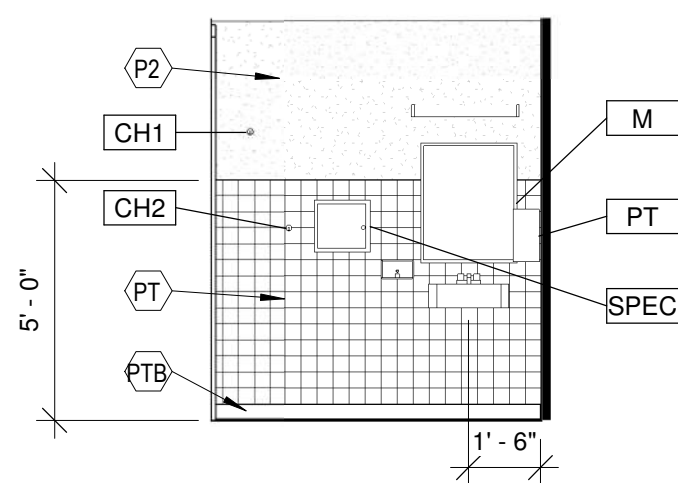
Accessories Schedule			
Type Mark	Description	Manufacturer	Comments
AED	Recessed Wall Mounted AED	Activar Construction Products Group	
CH1	Coat Hook		O.F.C.I.
CH2	Coat Hook Accessible		O.F.C.I.
CMP	Desk top computer.		O.F.O.I.
DISP	Chemical Dispenser	Quattro Select	O.F.C.I.
ET	Ritter 203 Treatment Table	Midmark	O.F.O.I.
EW	Wall Mounted Eye wash		O.F.C.I.
FEC	Fire Extinguisher Cabinet		C.F.C.I.
GB	Grab Bars		C.F.C.I.
GUR	Strecher	Hill-Rom Co.	O.F.O.I.
M	Mirror	Bradley Corporation	C.F.C.I.
MULT	Desk top copier.		O.F.O.I.
MW	Microwave		O.F.O.I.
PT	Paper Towel Dispenser	GP PRO Georgia-Pacific LLC	O.F.C.I.
SAN	Hand Sanitizer		O.F.C.I.
SC	Sharps Container		O.F.C.I.
SD	Surface Mounted Soap Dispenser	Bobrick Washroom Equipment, Inc.	O.F.C.I.
SPEC	Pass-through specimen cabinet	Bobrick Washroom Equipment, Inc.	C.F.C.I.
TP	Toilet Paper Holder		O.F.C.I.
UCR	Under Counter Refrigerator		O.F.O.I.
WC	Folding patient wheelchair.		O.F.O.I.



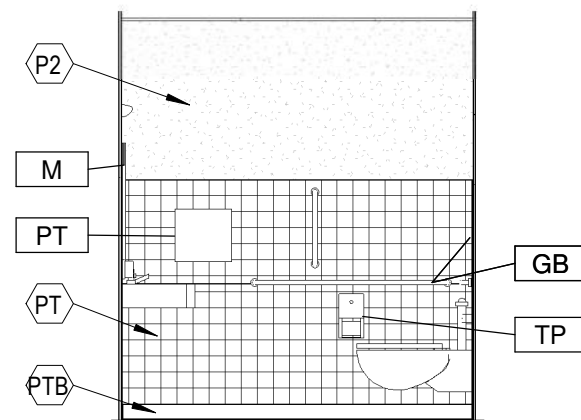
2 FINISH PLAN
A192 1/4" = 1'-0"



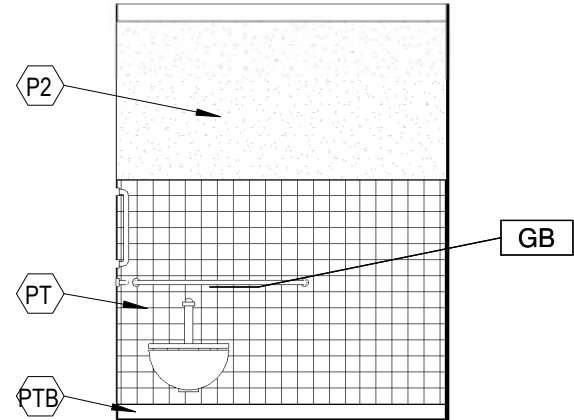
1 REFLECTED CEILING PLAN
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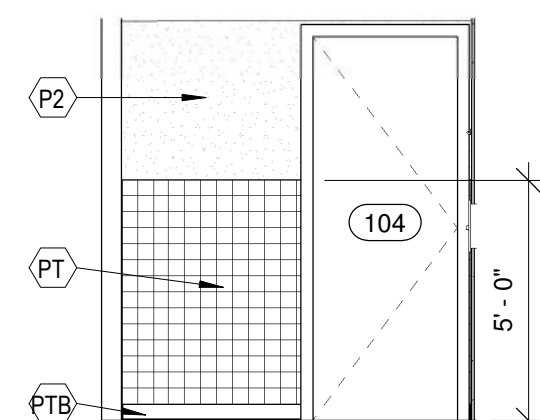
14 TOILET - A
A250 1/4" = 1'-0"



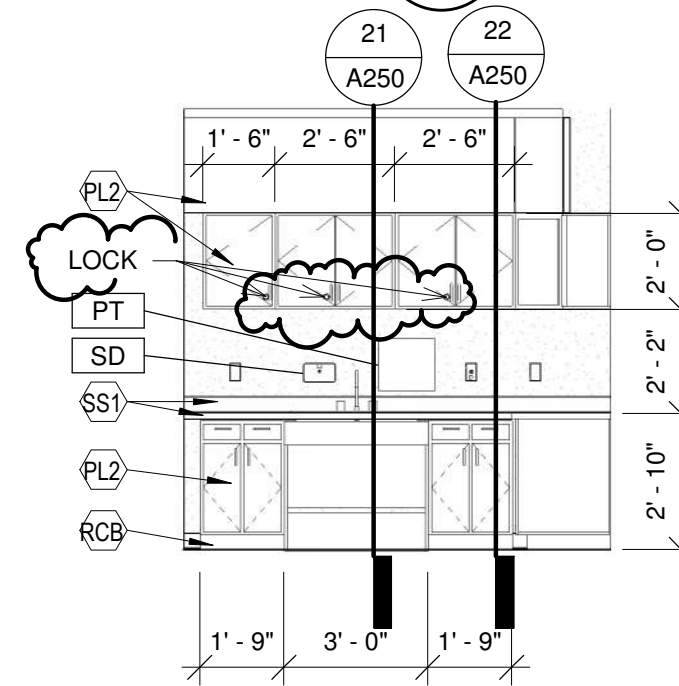
13 TOILET - B
A250 1/4" = 1'-0"



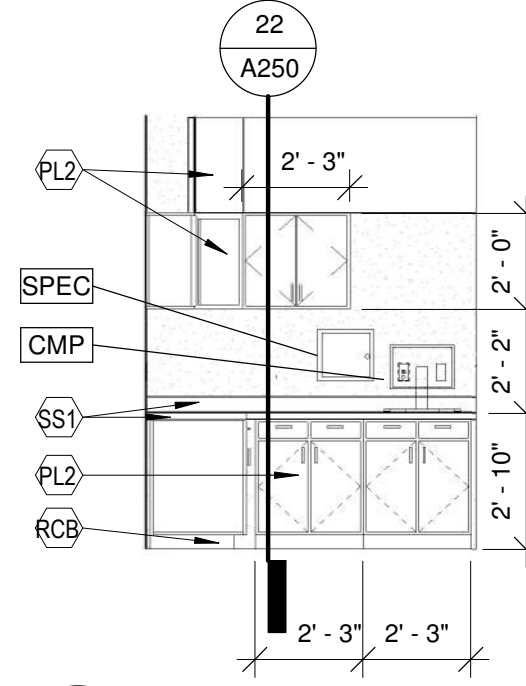
12 TOILET - C
A250 1/4" = 1'-0"



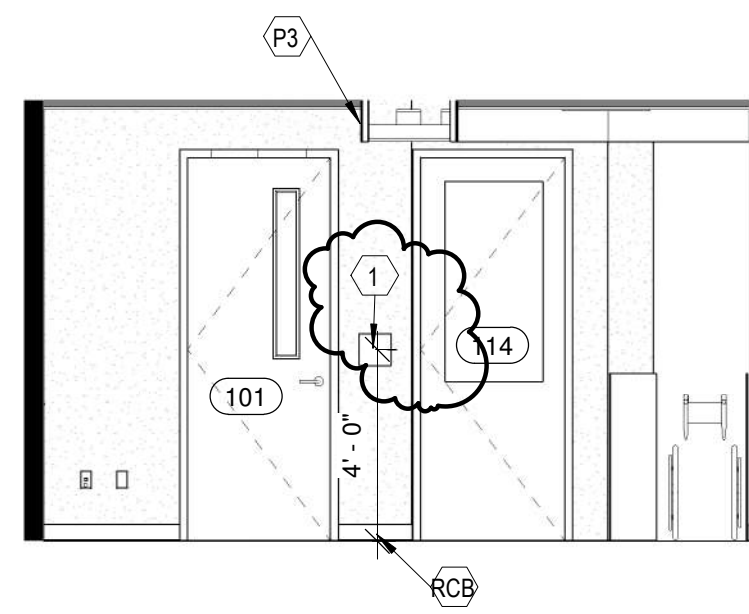
11 TOILET - D
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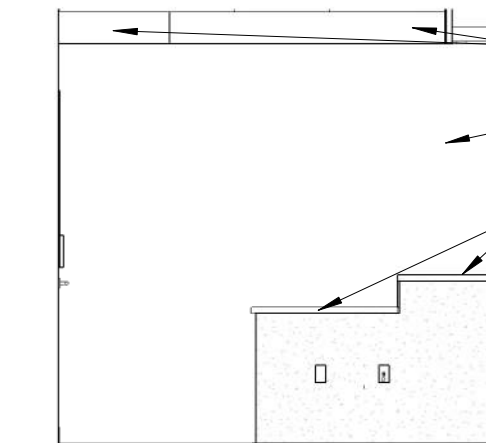
10 LAB - A
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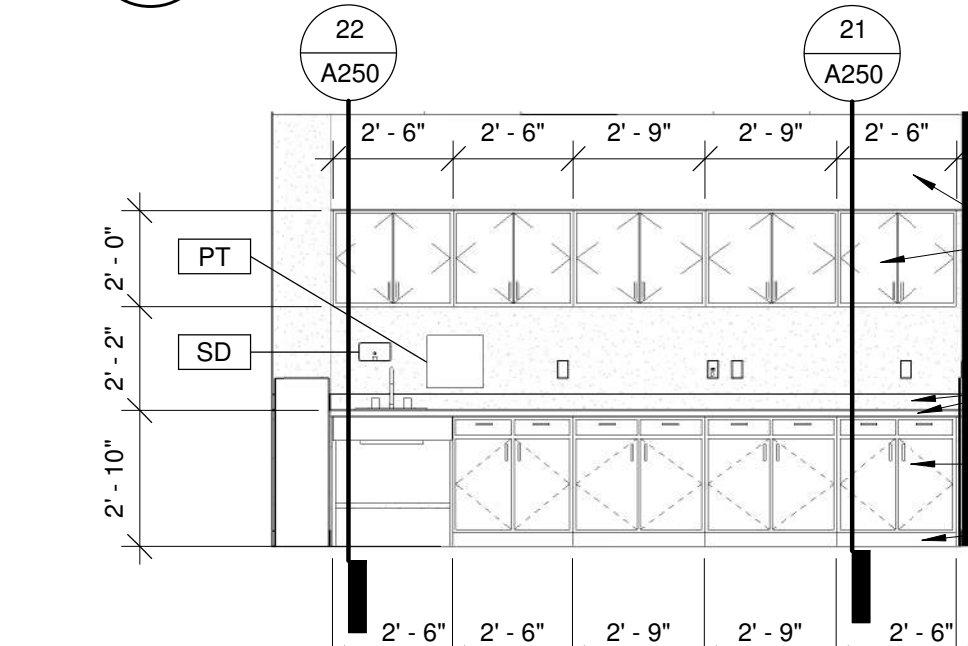
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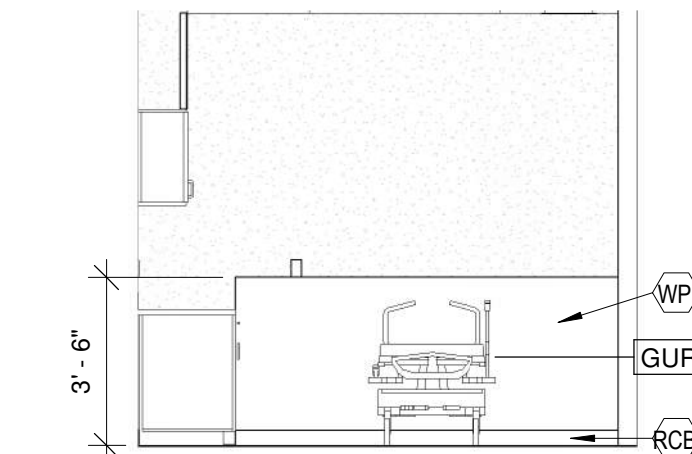
15 RECEPTION - C
A250 1/4" = 1'-0"



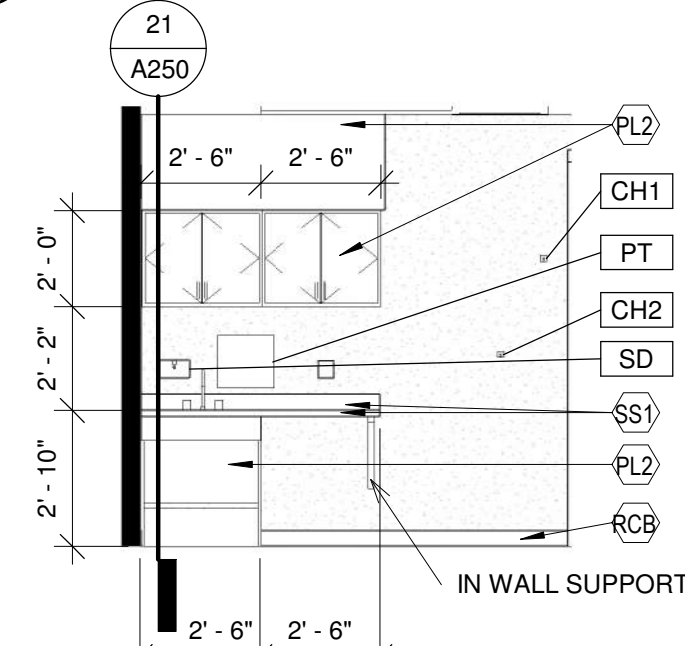
8 RECEPTION - A
A250 1/4" = 1'-0"



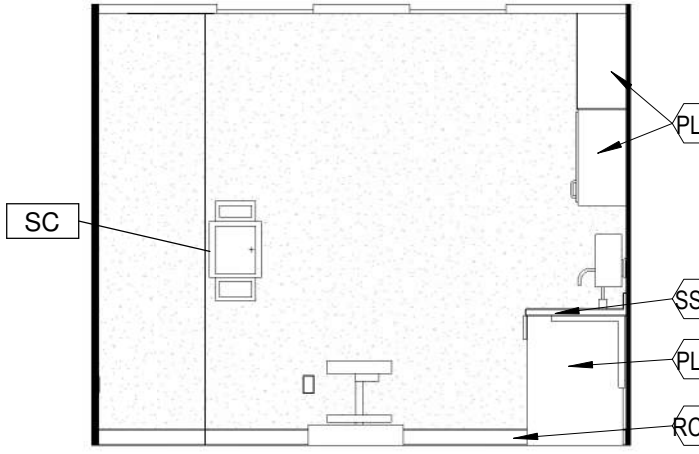
7 TREATMENT - A
A250 1/4" = 1'-0"



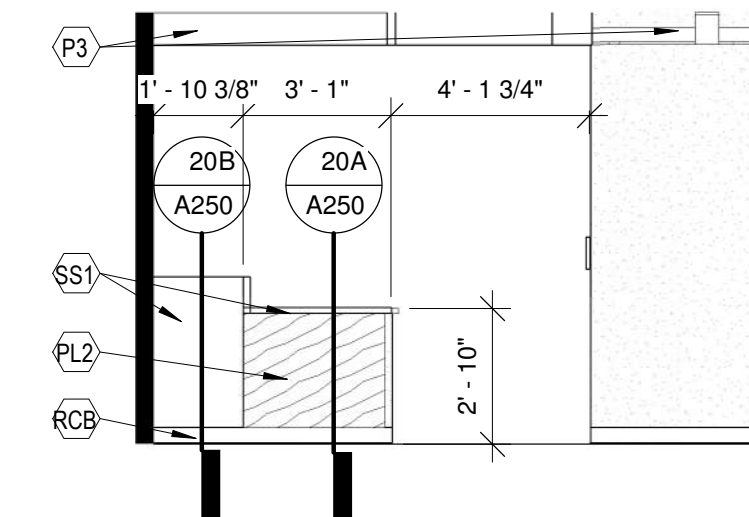
6 TREATMENT - B
A250 1/4" = 1'-0"



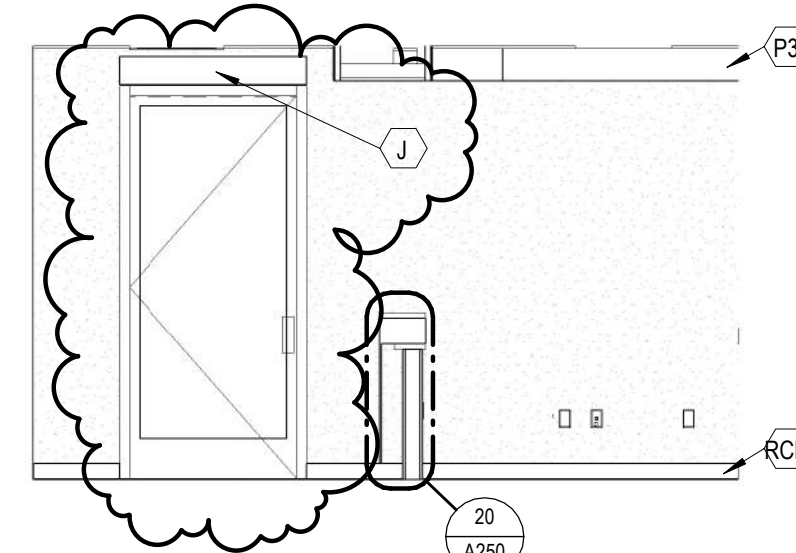
5 EXAM - A
A250 1/4" = 1'-0"



4 EXAM - B
A250 1/4" = 1'-0"



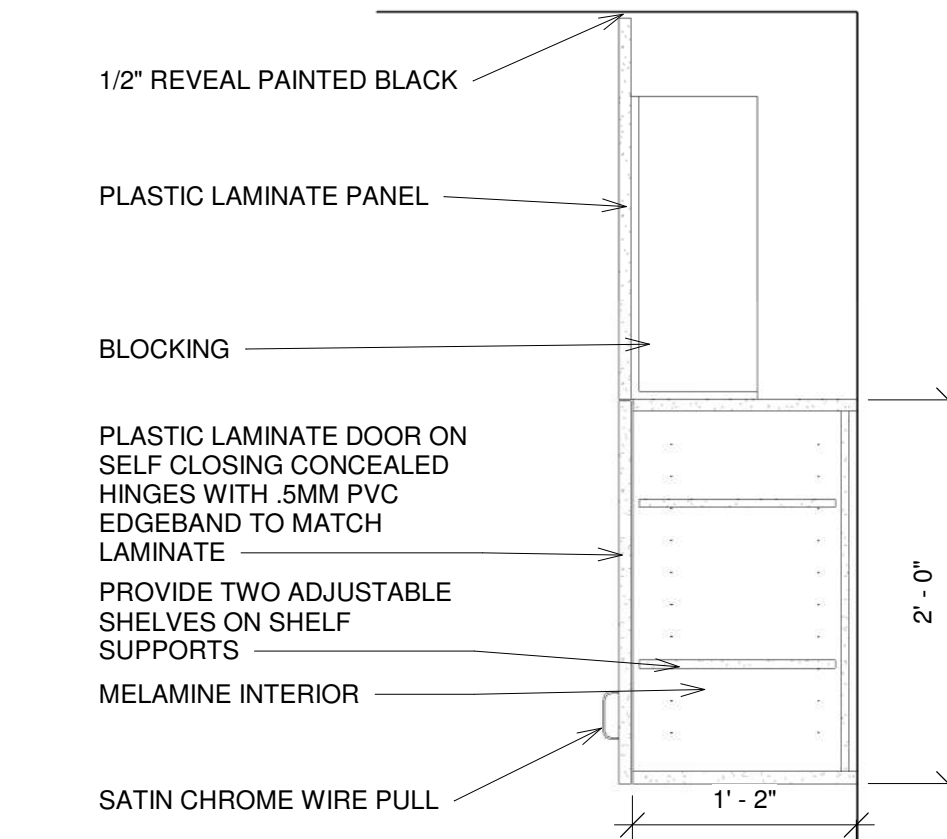
17 RECEPTION - D
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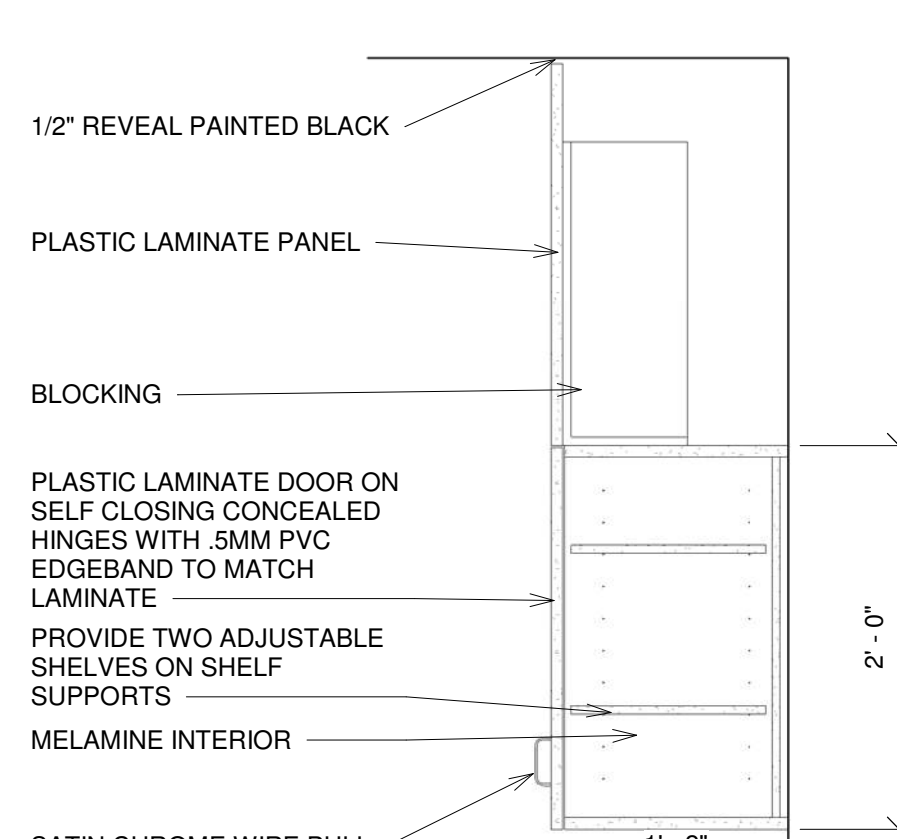
16 RECEPTION - B
A250 1/4" = 1'-0"

NOT USED

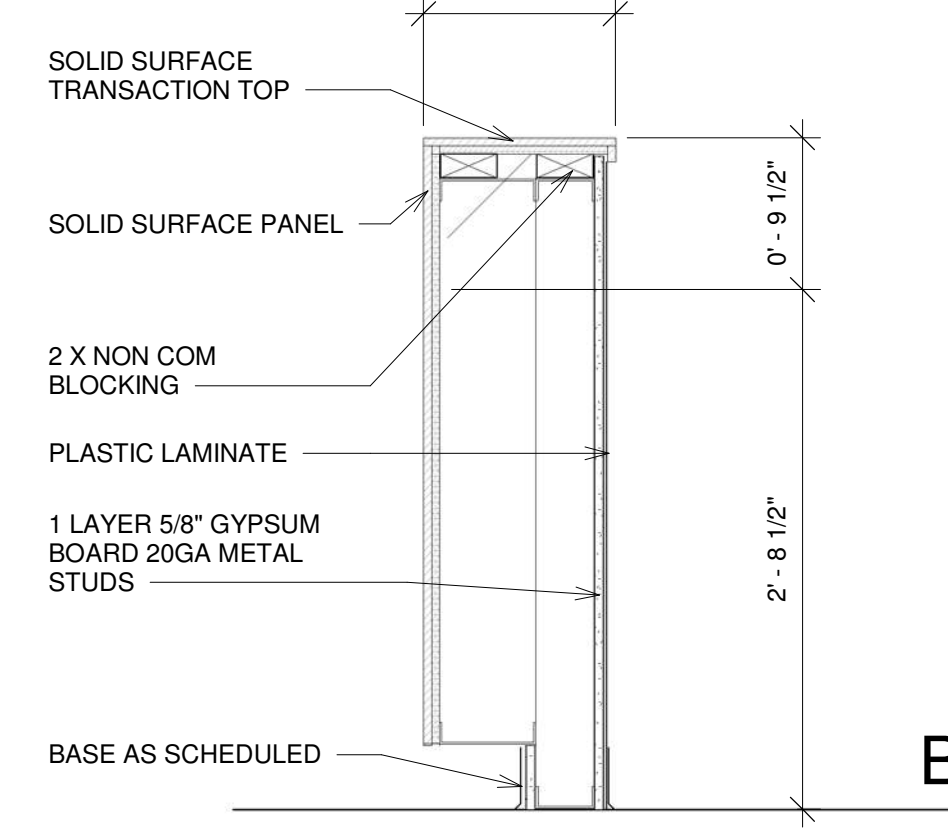
NOT USED



22 SECTION AT TREATMENT AND LAB
A250 1" = 1'-0"



21 SECTION AT ADA SINK
A250 1" = 1'-0"



20 SECTION AT RECEPTION DESK
A250 1" = 1'-0"

Reviewed for
Code Compliance
07/28/2023

STATE OF COLORADO
ERIC B. SMITH
B-1112
OCT. 28 2022
LICENSED ARCHITECT

NOTICE: DUTY OF COOPERATION

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Eric Smith Associates, P.C.

No.	REVISIONS Description	Date
1	CITY COMMENTS	10/17/22

uhealth

YVMC Mountain Clinic

2305 Mount Werner Circle
Suite P.027
Steamboat Springs, Colorado

ES

ERIC SMITH ASSOCIATES, P.C.
1919 SEVENTH STREET
BOULDER, COLORADO, 80302
(303) 442-5458, (303) 442-4745 FAX

Job Number:

22016

Date:

10/28/22

Drawn By:

JP

Checked By:

Checker

Project Phase

OWNER REVISIONS

Sheet Title

INTERIOR ELEVATIONS

Sheet Number

A250

PART 1 - GENERAL
1.1 GENERAL INTENT

- A. THE INTENTION OF THE CONTRACT DOCUMENTS IS TO INCLUDE ALL LABOR AND MATERIALS, AND EQUIPMENT, NECESSARY, OR REASONABLY REASONABLE AS BEING NECESSARY, FOR FURNISHING, INSTALLATION AND TESTING, COMPLETE AND READY FOR SAFE OPERATION OF SYSTEM DESCRIBED HEREIN.
- B. SUBMISSION OF A PROPOSAL, SHALL BE CONSTRUED AS EVIDENCE THAT THE CONTRACTOR HAS MADE A THOROUGH EXAMINATION OF THE SITE, AND ALL EXISTING CONDITIONS AND LIMITATIONS WHICH AFFECT THIS WORK. LATENT CLAIMS SHALL NOT BE MADE FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED, WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION.
- C. THE DRAWINGS INCLUDE DIAGRAMMATICALLY THE EXTENT, GENERAL CHARACTER, AND LOCATION OF THE WORK TO BE PERFORMED, WITH NECESSARY ADJUSTMENTS OF THE WORK ARE NECESSARY FOR PURPOSES OF THE PROPER INSTALLATION OF THE SYSTEM. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY ADJUSTMENTS WITH NO ADDED COMPENSATION, WHERE SUCH ADJUSTMENTS AFFECT FUNCTIONAL OR AESTHETIC DESIGN OF THE WORK. THEY SHALL FIRST BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL.
- D. THE WORK OF THE CONTRACTOR SHALL BE TO PROVIDE ALL MATERIALS, INCLUDING MATERIALS AND SERVICE, COORDINATE WORK WITH THE SITE UTILITIES CONTRACTOR TO ENSURE PROPER INSTALLATION, PIPE SLOPE, GRADE, PIPE SIZE AND SEPARATION WITHIN TRENCH WORK, NOTIFY ARCHITECT OR ENGINEER OF ANY DISCREPANCY BETWEEN DRAWINGS AND FIELD CONDITIONS.
- E. CONSIDER ALL LOCAL AND STATE SEISMIC REQUIREMENTS. THE CONTRACTOR SHALL MEET ALL SEISMIC REQUIREMENTS ARE SHOWN ON THESE DRAWINGS. CONTRACTOR SHALL MEET THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION SEISMIC SUBPORTITONALISATION OF HIS WORK.

[illegible]

A. DELIVER PRODUCTS TO THE PROJECT PROPERLY IDENTIFIED WITH NAMES, MODEL NUMBERS, TYPES, GRADES, COMPLIANCE LABELS, AND OTHER INFORMATION NEEDED FOR IDENTIFICATION.

B. ALL MECHANICAL EQUIPMENT AND MATERIAL ITEMS SHALL BE PROTECTED FROM WEATHER AND VANDALISM PRIOR TO ACTUAL INSTALLATION. FAN WHEELS, PUMPS AND OTHER ROTATING MACHINERY SHALL BE PERIODICALLY ROTATED DURING STORAGE. ANY FACTORY PAINTED EQUIPMENT SCRATCHED OR HARMED DURING SHIPMENT OR CONSTRUCTION SHALL BE RESTORED TO ORIGINAL "NEW" CONDITION. THIS INCLUDES COMPLETE REPAINTING OF THE EQUIPMENT IF NECESSARY TO PROVIDE EXACT MATCH.

C. CONTRACTOR IS RESPONSIBLE FOR RECEIVING AND OFFLOADING EQUIPMENT OF HIS SCOPE. IMMEDIATELY UPON RECEIPT, CONTRACTOR SHALL INSPECT ALL EQUIPMENT AND MATERIAL FOR SHIPPING DAMAGE AND REPLACE ANY DEFECTIVE ITEMS AT NO INCREASE TO CONTRACT AMOUNT.

A. COORDINATE MECHANICAL EQUIPMENT INSTALLATION WITH OTHER BUILDING COMPONENTS PRIOR TO ORDERING OR FABRICATION OF ADJOINING WORK.

B. COORDINATE THE INSTALLATION OF REQUIRED SUPPORTING DEVICES AND SEE SLATES IN POURED-CONCRETE FLOORS AND OTHER BUILDING COMPONENTS AS THEY ARE CONSTRUCTED. ARRANGE FOR CHANGES, SLOTS, AND OPENINGS IN BUILDING STRUCTURE DURING PROGRESS OF CONSTRUCTION TO ALLOW FOR MECHANICAL INSTALLATIONS.

C. COORDINATE WITH OTHER TRADES AND SUPPLIERS OF MECHANICAL MATERIALS AND EQUIPMENT TO DETERMINE THE LOCATION, SIZE, AND WEIGHT OF MECHANICAL MATERIALS EQUIPMENT FOR EFFICIENT FLOW OF WORK. COORDINATE INSTALLATION OF LARGE EQUIPMENT REQUIRING POSITIONING PRIOR TO CLOSING IN THE BUILDING.

D. COORDINATION CONNECTION OF MECHANICAL SYSTEMS WITH EXTERIOR UNDERGROUND AND OVERHEAD UTILITIES SERVICES, CABLES AND PIPING. OBTAIN PERMITS OF COVERING REGULATIONS, FRANCHISED SERVICE COMPANIES, AND COORDINATING AGENCIES. COORDINATE CONNECTION OF ELECTRICAL SERVICES.

E. PROVIDE IDENTIFICATION OF ALL EQUIPMENT. COORDINATE INSTALLATION OF IDENTIFYING DEVICES AS THEY ARE BEING COVERED AND PAINTING WHERE DEVICES ARE APPLIED TO SURFACES. INSTALL IDENTIFYING DEVICES PRIOR TO INSTALLING ACoustICAL CEILINGS AND SIMILAR CELEMENTS.

A. CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR ANY DEFECTS IN WORKMAN SHIP OR EQUIPMENT, WHICH DEVELOP WITHIN ONE YEAR FROM ACCEPTANCE BY THE OWNER.

B. CONTRACTOR SHALL MAINTAIN A REDLINE SET OF CONSTRUCTION DRAWINGS SHOWING DEVIATION FROM THE DRAWINGS AND INSTALLED CONDITIONS. THESE SHALL BE PROVIDED OVER TO THE OWNER AT ACCEPTANCE OF THE WORK.

C. PROVIDE THREE (3) COMPLETE SETS OF OPERATION AND MAINTENANCE MANUALS. THESE ARE TO INCLUDE: CONTRACTOR CUT SHEET, MANUFACTURERS RECOMMEND MAINTENANCE PROCEDURES, MANUFACTURERS WARRANTY INFORMATION, AND CONTRACTORS WARRANTY LETTER AND CONTACT INFORMATION.

D. PROVIDE THREE (3) REVIEWED BALANCE REPORTS OF WATER AND AIR SYSTEMS AS APPLICABLE.

E. CONTRACTOR SHALL INSTRUCT THE OWNER ON THE OPERATION AND MAINTENANCE OF ALL SYSTEMS PROVIDE UNDER THIS CONTRACT.

2.1 GENERAL

- A. DUCT DIMENSIONS SHOWN ON PLANS ARE NET FREE AREA.
- B. ROUND ELBOWS MUST HAVE A CENTERLINE RADIUS OF NO LESS THAN 1.5 TIMES THE DIAMETER OF THE ELBOW. SQUARE ELBOWS SHALL HAVE TURNING VANES.
- C. ALL DUCTWORK EXPOSED TO VIEW SHALL BE ROUND OR OVAL SPIRAL.

A. COMPLY WITH SMAGNA'S HVAC DUCT CONSTRUCTION STANDARDS—METAL AND FLEXIBLE* FOR ACCEPTABLE MATERIALS, MATERIAL THICKNESS, AND DUCT CONSTRUCTIONS METHODS, UNLESS OTHERWISE INDICATED. SHEET METAL MATERIALS SHALL BE FREE OF PITTING, SEAM MARKS, ROLLER MARKS, STAINS, DISCOLORATIONS, AND OTHER IMPERFECTIONS, UNLESS STATED OTHERWISE. ALL DUCTWORK TO BE 26 GAUGE MINIMUM.

B. GALVANIZED SHEET STEEL: LOCK-FORMING QUALITY; COMPLYING WITH ASTM A 653/A 653M AND HAVING G90 (Z75) COATING DESIGNATION; DUCTS SHALL HAVE MILL-PHOSPHATIZED FINISH FOR SURFACES EXPOSED TO VIEW.

A. GENERAL:

1. FIRE-HAZARD CLASSIFICATION: MAXIMUM FLAME-SPREAD INDEX OF 25 AND SMOKE-DEVELOPED INDEX OF 50 WHEN TESTED ACCORDING TO ASTM E 84.
2. INSULATION SCHEDULE:
 - a. OUTSIDE THE BUILDING THERMAL ENVELOPE
 - 1) INSULATE ALL SUPPLY AND RETURN DUCTS TO R-8
 - 2) INSULATE THE BUILDING THERMAL ENVELOPE
 - 3) INSULATE SUPPLY AIR DUCTS TO R-6
 - 4) INSULATE RETURN AIR DUCTS TO R-6
 - 5) INSULATE OUTSIDE AIR DUCTS TO R-8 WITH CLOSED CELL INSULATION TO PREVENT CONDENSATION
 - b. DUCT INSULATION: MINERAL OR GLASS FIBERS BONDED WITH A THERMOSETTING RESIN, COMPLY WITH ASTM C 553, TYPE I AND ASTM C 1290, TYPE II WITH FACTORY-APPLIED FSK JACKET.
3. FIBROUS-GLASS LINER: COMPLY WITH NFPA 90A OR NFPA 90B AND WITH NFPA AHJ24.
 1. MATERIALS: ASTM C 1071; SURFACES EXPOSED TO AIRSTREAM SHALL BE COATED TO PREVENT EROSION OF GLASS FIBERS.
 - a. THICKNESS: 1"
 - b. LINER ADHESIVE: COMPLY WITH NFPA 90A OR NFPA 90B AND WITH ASTM C 916.
 - c. MECHANICAL FASTENERS: GALVANIZED STEEL, SUITABLE FOR ADHESIVE ATTACHMENT, MECHANICAL ATTACHMENT, OR WELDING ATTACHMENT TO DUCT WITHOUT DAMAGING LINER WHEN AS RECOMMENDED BY MANUFACTURER AND WITHOUT CAUSING LEAKAGE IN DUCT.
4. FIRE-RATED INSULATION SYSTEM: HIGH-TEMPERATURE, FLEXIBLE, BLANK INSULATION WITH FSK JACKET THAT IS UL TESTED AND CERTIFIED TO PROVIDE REQUIRED FIRE-RATING.
5. REFRIGERANT PIPING INSULATION - FLEXIBLE ELASTOMERIC, MIN. 1" THICK R-6.

[illegible]

A. DUCT MOUNTED ACCESS DOORS: DOUBLE WALL, DUCT MOUNTING AND RECTANGULAR; FABRICATED OF GALVANIZED SHEET METAL WITH INSULATION FILL AND THICKNESS AS INDICATED FOR DUCT PRESSURE CLASS.

1. FRAME: GALVANIZED SHEET STEEL, WITH BEND-OVER TABS AND FOAM GASKETS.
2. PROVIDE NUMBER OF HINGES AND LOCKS AS FOLLOWS:
 - a. LESS THAN 12 INCHES SQUARE: SECURE WITH TWO SASH LOCKS.
 - b. UP TO 18 INCHES SQUARE: TWO HINGES AND TWO SASH LOCKS.
 - c. UP TO 24 BY 48 INCHES: THREE HINGES AND TWO COMPRESSION LATCHES.

A. ROOF MOUNTED EQUIPMENT: PROVIDE FACTORY CURB TO MATCH EQUIPMENT PROVIDED. CURB TO MATCH ROOF SLOPE, TYPE, AND INSULATION DEPTHS FOR PROPER EQUIPMENT MOUNTING (ACCOUNT FOR APPLICABLE ACCESSORIES SUCH AS ECONOMIZERS AND ERVS).

B. GROUND/FLOOR MOUNTED EQUIPMENT: PROVIDE CONCRETE HOUSE-KEEPING PAD AT LEAST 4" THICK AND AT LEAST 6" LARGER THAN THE EQUIPMENT BEING SUPPORTED.

3.1 EXAMINATION

A. VERIFY FINAL LOCATIONS FOR ROUGHINGS WITH FIELD MEASUREMENTS AND WITH THE REQUIREMENTS OF THE ACTUAL EQUIPMENT TO BE CONNECTED.

B. LOCATION OF EQUIPMENT AND DEVICES AS SHOWN ON THE DRAWINGS ARE APPROXIMATE UNLESS OTHERWISE NOTED. LOCATIONS OF EQUIPMENT AND DEVICES SHALL BE DETERMINED BY THE ARCHITECT'S REPRESENTATIVE AND/OR DETERMINED FROM SPECIAL DETAIL AND DRAWINGS. VERIFY THE PHYSICAL DIMENSIONS OF EACH ITEM OF MECHANICAL EQUIPMENT TO FIT THE AVAILABLE SPACE AND PROMPTLY NOTIFY THE ARCHITECT PRIOR TO ROUGHING-IN IF CONFLICTS ARISE.

C. COORDINATION OF DIVISION 5 EQUIPMENT AND SYSTEMS TO THE AVAILABLE WIRING, EQUIPMENT, AND PIPING, ETC., SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. THE INSTALLATION SHALL BE CONCEALED WITHIN BUILDING CONSTRUCTION, OR EXPOSED IN MECHANICAL ROOMS, UNLESS OTHERWISE NOTED.

PROVIDE ALL VALVES, DAMPERS AND CONTROL DEVICES REQUIRED TO COMPLETE BALANCING OF THE SYSTEM. PROVIDE ALL VALVES, DAMPERS AND CONTROL DEVICES REQUIRED TO ASSIST IN THE INSTALLATION WHERE SPECIFICALLY CALLED FOR ON THE DRAWINGS, DETAILS OR SPECIFICATIONS OR NOT. IT SHALL BE UNDERSTOOD, UNLESS SPECIFICALLY STATED OTHERWISE, THAT ALL SYSTEMS SHALL BE INSTALLED TO COMPLY WITH THE FOLLOWING REQUIREMENTS:

B. COORDINATE MECHANICAL SYSTEMS, EQUIPMENT AND MATERIALS INSTALLATION WITH OTHER BUILDING COMPONENTS: SEQUENCE, COORDINATE AND INTEGRATE INSTALLATIONS OF MECHANICAL MATERIALS AND EQUIPMENT WITH OTHER BUILDING COMPONENTS AND TRADES TO AVOID CONFLICTS AND REQUIRE POSITIONING PRIOR TO CLOSING IN THE BUILDING. GIVE RIGHT-OF-WAY PRIORITY TO SYSTEMS REQUIRED TO BE INSTALLED AT A SPECIFIED SCOPE.

C. PROVIDE HIGH-LEVEL PROTECTION OF ALL EXPOSED MECHANICAL SYSTEMS, MATERIALS, AND EQUIPMENT TO PROVIDE THE MAXIMUM HEADROOM POSSIBLE.

D. INSTALL SYSTEMS, MATERIALS AND EQUIPMENT LEVEL AND PLUMB, PARALLEL, AND PERPENDICULAR TO THE BUILDING SYSTEMS AND MATERIALS. EXPOSED EXPOSED IN FINISHED SPACES.

E. INSTALL MECHANICAL EQUIPMENT TO FACILITATE SERVICING, MAINTENANCE, AND REPAIR OR REPLACEMENT OF EQUIPMENT COMPONENTS, AS MUCH AS PRACTICAL. CONNECT EQUIPMENT FOR EASE OF ACCESS TO ALL COMPONENTS. PROVIDE ACCESS TO ALL COMPONENTS. PROVIDE ACCESS TO ALL FITTINGS TO AN ACCESSIBLE LOCATION.

1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY PROTECTING ANY PENETRATION OF A FIRE RATED ASSEMBLY, FIRE SEAL, CAULKING, AND APPURTENANCES SHALL BE UL LISTED FOR THE ASSEMBLY. RATING IT IS APPLIED TO AND SHALL BE INSTALLED PER THE MANUFACTURERS WRITTEN INSTRUCTIONS. ALL SUCH MATERIALS SHALL MEET STATE, LOCAL, AND AUTHORITIES CODES AND STANDARDS.
2. PENETRATIONS ARE PROHIBITED IN ANY STRUCTURAL MEMBERS (EXCEPT WHERE NOTED IN DRAWING) AND IN THE IMMEDIATE VICINITY OF THE ARCHITECT, ENGINEER, OR CSP OR OTHER OPENINGS WHICH MAY BE REQUIRED IN ADDITION TO THOSE SHOWN ON DRAWINGS. PAY ALL COSTS FOR ADDITIONAL CUTTING OF HOLES AS THE RESULT OF INCORRECT LOCATION OF SLEEVES OR FURNISHING INCORRECT INFORMATION AS TO THE REQUIREMENTS OF FRAMED OPENINGS.
3. FIRE RATED ASSEMBLY, FIRE SEAL, CAULKING, AND APPURTENANCES SHALL BE:
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROPERLY PROTECTING ANY PENETRATION OF A FIRE RATED ASSEMBLY, FIRE SEAL, CAULKING, AND APPURTENANCES SHALL BE UL LISTED FOR THE ASSEMBLY. RATING IT IS APPLIED TO AND SHALL BE INSTALLED PER THE MANUFACTURERS WRITTEN INSTRUCTIONS. ALL SUCH MATERIALS SHALL MEET STATE, LOCAL, AND AUTHORITIES CODES AND STANDARDS.
2. REFERENCE TO ARCHITECTURAL DRAWINGS FOR ALL FIRE RATED ASSEMBLY LOCATIONS AND RATINGS SHALL BE FORTHCOMING.
3. THE CONTRACTOR SHALL PROVIDE PROPER MECHANICAL SEISMIC RESTRAINTS FOR ALL INSTALLED ITEMS INCLUDING, BUT NOT LIMITED TO, DUCTS, PIPING, EQUIPMENTS AND ACCESSORIES. THE CONTRACTOR SHALL PROTECT ALL INSTALLED ITEMS FROM DAMAGE BY THE CODES USED BY THE AHJ OR AS SHOWN ON THE DRAWINGS (WHICHEVER IS MORE STRINGENT).

- A. CONSTRUCT AND INSTALL DUCTS ACCORDING TO SMACNA'S "HVAC DUCT CONSTRUCTION STANDARDS-METAL AND FLEXIBLE."
- B. INSTALL DUCTS WITH FEWEST POSSIBLE JOINTS. INSTALL FABRICATED FITTINGS FOR CHANGES IN DIRECTIONS, SIZE, AND SHAPE AND FOR CONNECTIONS.
- C. COORDINATE DUCT WITH SUSPENDING CEILING, FIRE- AND SMOKE-CONTROL DAMPERS, LIGHTING, A/C UNITS, AND SIMILAR FINISHED ELEMENTS.
- D. SEAL ALL JOINTS WITH UNITED STATES GELING. FIRE-RESISTANT TO MALE END CONNECTORS BEFORE INSERTION, AND AFTERWARD TO COVER ENTIRE JOINT AND SHEET METAL SCREWS.
- E. NON-FIRE-RATED PARTITION PENETRATION WHERE DUCTS PASS THROUGH INTERIOR PARTITIONS AND EXTERIOR WALLS, AND ARE EXPOSED TO VIEW, CONCEAL SPACES BETWEEN CONSTRUCTION OPENINGS AND DUCTS OR DUCT INSULATION WITH SHEET METAL FLANGES OF SAME METAL THICKNESS AS DUCTS, OVERLAP OPENINGS ON 4 SIDES BY AT LEAST 1-1/2 INCHES.
- F. PAINT INTERIORS OF METAL DUCTS, THAT DO NOT HAVE DUCT LINER, FOR 24 HOURS UPSTREAM OF REGISTERS AND GRILLS. APPLY ONE OF FLAT, BLACK, LATEX FINISH COAT OVER A COMPATIBLE POLYURETHANE PRIMER.
- G. PROVIDE BALANCING DAMPERS AT POINT ON SUPPLY, RETURN, AND EXHAUST SYSTEM WHERE BRANCHES LEAD FROM LARGER DUCTS AS REQUIRED FOR AIR BALANCING. INSTALL AT A MINIMUM OF TWO DUCT WIDTHS FROM BRANCH TAKEOFF.
- H. INSTALL EXHAUST CONNECTING DUCTS AS CLOSE TO EQUIPMENT AS PRACTICABLE TO EQUIPMENT WITH FANS AND MOTORIZED EQUIPMENT SUPPORTED BY VIBRATION ISOLATORS.
- I. CONNECT DIFFUSERS GRILLS TO LOW PRESSURE DUCTS WITH MAXIMUM 72-INCH LENGTH OF FLEXIBLE DUCT CLAMPED OR STRAPPED IN PLACE. CONNECT FLEXIBLE DUCTS TO METAL DUCTS WITH HANDOUT STRAPS.
- J. INSTALL DUCTWORK DAMPERS ON EXHAUST FANS OR EXHAUST DUCTS NEAREST TO OUTSIDE AND WHERE INDICATED.

- A. SUPPORT HORIZONTAL DUCTS WITHIN 24 INCHES OF EACH ELBOW AND WITHIN 48 INCHES OF EACH BRANCH INTERSECTION.
- B. SUPPORT VERTICAL DUCTS AT MAXIMUM INTERVALS OF 16 FEET AND AT EACH FLOOR.
- C. SUPPORT ALL DUCTWORK, PIPING, AND EQUIPMENT AS REQUIRED BY THE LOCAL CODES, MANUFACTURES RECOMMENDATIONS, AND STANDARD INDUSTRY PRACTICE.
- D. USE MATERIALS COMPATIBLE WITH ITEMS BEING SUPPORTED TO AVOID ELECTROLYTIC ACTION, AND CONFORM TO SMACNA, ANSI/ASME B31, NFPA, MSS SP-58, 69, 89.

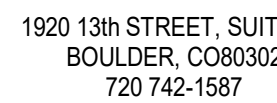
EQUIPMENT			
	FLEXIBLE DUCTWORK		SUPPLY DIFFUSER
	LINED DUCTWORK		RETURN GRILLE
	DEMO		EXHAUST GRILLE
	THERMOSTAT		ROUND DUCTWORK BREAK
	TEMPERATURE SENSOR		DUCTWORK BREAK
	SMOKE DETECTOR		DUCTWORK RISE
	CO2 SENSOR		
	MOTORIZED DAMPER		DUCTWORK DROP
	BAROMETRIC DAMPER		
	MANUAL VOLUME DAMPER		SPIN-IN SUPPLY (WITH VOLUME DAMPER)
	COMBINATION SMOKE/FIRE DAMPER		SPIN-IN RETURN/EXHAUST (WITH VOLUME DAMPER)
	FIRE DAMPER		45° SQUARE DUCT TAKE-OFF FROM SQUARE DUCT
	EQUIPMENT CALLOUT		45° ROUND DUCT TAKE-OFF FROM SQUARE DUCT
	DETAIL CALLOUT		45° ROUND DUCT TAKE-OFF FROM ROUND DUCT
	TEMPERATURE GAUGE		TURNING VANE
	POINT OF CONNECTION		MITERED CORNER
	INTAKE OR EXHAUST		RADIUS ELBOW
	DIRECTION OF AIRFLOW		

CF	CAP FOR FUTURE
CFM	CUBIC FEET PER MINUTE
EER	ENERGY EFFICIENCY RATIO
ESP	EXTERNAL STATIC PRESSURE
EWI	ENTERING WATER TEMPERATURE
FCO	FLOOR CLEANOUT
HP	HORSEPOWER
IECC	INTERNATIONAL ENERGY CONSERVATION CODE
HVAC	HEATING, VENTILATING, AIR CONDITIONING
MCA	MINIMUM CIRCUIT AMPS
MOPC	MAXIMUM OVERCURRENT PROTECTION
OSA	OUTSIDE AIR
PH	PHASE
RA	RETURN AIR
RTU	ROOFTOP UNIT
SA	SUPPLY AIR
SEER	SEASONAL ENERGY EFFICIENCY RATIO
VTR	VENT THROUGH ROOF
V	VOLTS
WB	WET BULB
WI	WITH

- M0.1 - MECHANICAL SPECIFICATIONS
- M1.1 - MECHANICAL FLOOR PLAN
- M3.1 - MECHANICAL ISOMETRIC VIEW
- M5.1 - MECHANICAL DETAILS
- M6.1 - MECHANICAL SCHEDULE



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 ERIC SMITH ASSOCIATES, P.C. 1919 SEVENTH STREET BOULDER, COLORADO, 80302 (303) 442-5458, (303) 442-4745 FAX		
Job Number:	-	
Date:	6 / 20 / 22	
Drawn By:	RM	
Checked By:	DW	
Project Phase Project Status		
Sheet Title SPECIFICATIONS GENERAL NOTES & LEGEND		
Sheet Number M0.1		



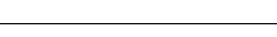
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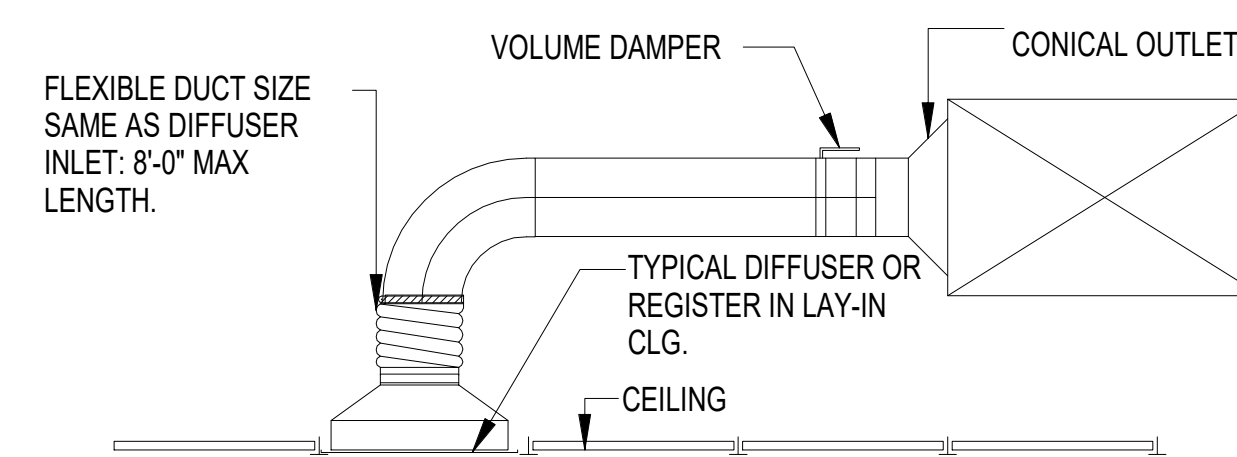
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Project Status

MECHANICAL PLAN

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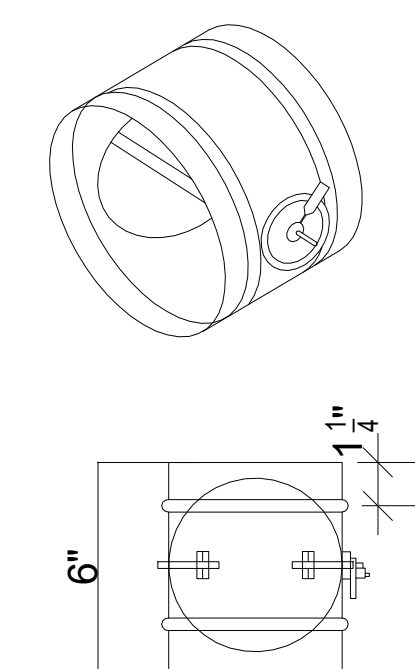
TABLE 403.3.1.1 IMC 2018	TOTAL OSA REQUIRED	156
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1) N.T.S



2 — CII
N.T.S



- NOTE:
1. 22 GAUGE GALVANIZED STEEL FRAME,
6" LONG STANDARD.DOUBLE BEADED FOR STRENGTH.
2. 22 GAUGE GALVANIZED STEEL BLADE
WITH CENTER "V" BREAK FOR ADDED STRENGTH.
3. 3/8" SQUARE ZINC PLATED STEEL BLADE SHAFTS
WITH TIGHT SEALING NYLON BUSHINGS.
4. ALL STEEL PARTS WITH GALVANIZED
FINISH OR ZINC PLATING.
5. MAXIMUM OPERATING TEMPERATURE IS 250° F.
6. MANUAL LOCKING QUADRANT SUPPLIED FACTORY
MOUNTED TO DAMPER SLEEVE.
7. MAXIMUM DIAMETER 24", MINIMUM DIAMETER 4".
8. DAMPERS ARE SUPPLIED APPROXIMATELY $\frac{1}{8}$ "
UNDER NOMINAL DIAMETER.

4

[illegible]

YVMC MOUNTAIN CLINIC
2305 MOUNT WERNER CIRCLE'
SUITE P.027
STEAMBOAT SPRINGS, COLORADO

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Project Phase
Project Status
Sheet Title
MECHANICAL DETAILS
Sheet Number
M5.1

PLUMBING SPECIFICATIONS

PART 1 - GENERAL

1.1 GENERAL INTENT

- A. THE INTENTION OF THE CONTRACT DOCUMENTS IS TO INCLUDE ALL LABOR AND MATERIALS, AND EQUIPMENT, NECESSARY, OR REASONABLY INFERRABLE AS BEING NECESSARY, FOR FURNISHING, INSTALLATION AND TESTING, COMPLETE AND READY FOR SAFE OPERATION OF THE SYSTEMS DESCRIBED HEREIN.
- B. SUBMISSION OF A PROPOSAL, SHALL BE CONSIDERED AS EVIDENCE THAT THE CONTRACTOR HAS MADE A THOROUGH EXAMINATION OF THE SITE, AND ALL EXISTING CONDITION AND LIMITATIONS WHICH AFFECT THIS WORK. LATER CLAIMS SHALL NOT BE MADE FOR LABOR, EQUIPMENT OR MATERIALS REQUIRED BECAUSE OF DIFFICULTIES ENCOUNTERED, WHICH COULD HAVE BEEN FORESEEN DURING SUCH AN EXAMINATION.
- C. THE DRAWINGS INDICATE DIAGRAMMATICALLY THE EXTENT, GENERAL CHARACTER, AND LOCATION OF THE WORK. THEY SHALL FIRST BE SUBMITTED TO THE ARCHITECT FOR REVIEW AND APPROVAL.
- D. SITE UTILITIES, THE MECHANICAL DOCUMENTS INDICATE CONNECTION LOCATION OF VARIOUS BUILDING SERVICES COORDINATE WORK WITH THE SITE UTILITIES CONTRACTOR TO ENSURE PROPER INVERT ELEVATION, PIPE SLOPE GRADIENT, PIPE SIZE AND SEPARATION WITHIN TRENCH WORK. NOTIFY ARCHITECT OR ENGINEER OF ANY DISCREPANCY BETWEEN DRAWINGS AND FIELD CONDITIONS.
- E. COMPLY WITH ALL LOCAL AND STATE CODES REGARDING SEISMIC SUPPORT AND ISOLATION. NOT ALL SEISMIC REQUIREMENTS ARE SHOWN ON THESE DRAWING. CONTRACTOR SHALL MEET THE REQUIREMENTS OF THE AUTHORITY HAVING JURISDICTION FOR SEISMIC SUPPORT/ISOLATION OF HIS WORK.

1.2 GENERAL COORDINATION

- A. THE CONTRACTOR IS RESPONSIBLE FOR INSTALLATION OF A SATISFACTORY, COMPLETE, FULLY OPERATIONAL PIECE OF WORK IN ACCORDANCE WITH TRUE INTENT OF THE DRAWINGS AND SPECIFICATIONS.
- B. CONTRACTOR SHALL CONSULT ALL DRAWINGS FOR THE PROJECT TO DETERMINE THAT THE WORK AND EQUIPMENT WILL FIT AS PLANNED.
- C. THE LOCATION OF PIPING, DUCTS, EQUIPMENTS, ETC. SHALL BE CHECKED TO EN CLEARANCE FROM OPENINGS, STRUCTURAL MEMBERS, CABINETS, LIGHTS, OUTLETS AND EQUIPMENT HAVING FIXED LOCATIONS. THIS SHALL BE ACCOMPLISHED PRIOR TO FABRICATION OF PIPE OR DUCTS.
- D. IF, AT ANY TIME, AND IN ANY CASE, CHANGES IN LOCATION OF PIPING, DUCTS, EQUIPMENT, ETC., BECOMES NECESSARY DUE TO EXISTING OBSTACLES OR INSTALLATION OF OTHER TRADES SHOWN ON ANY OF THE PROJECT DRAWINGS AND SPECIFICATIONS HAVE BEEN AVOIDED BY PROPER COORDINATION BETWEEN TRADES OR PROPER PRE-PLANNING OF WORK, SUCH REQUIRED CHANGES SHALL BE MADE BY THE CONTRACTOR AT NO EXTRA COST. THESE CHANGES ARE TO BE RECORDED ON THE RECORD DRAWINGS.
- E. THIS CONTRACTOR IS RESPONSIBLE TO PROVIDE ALL INCIDENTAL ELECTRICAL INTERCONNECTIONS, CONTROL WIRING, ETC., WHICH ARE NECESSARY FOR SYSTEM COMPLETION AND WHICH ARE NOT SPECIFICALLY SHOWN OR OTHERWISE INDICATED ON THE ELECTRICAL DRAWINGS OR SPECIFICATIONS IN DIVISION 26.
- F. ALL ELECTRICAL WORK INCIDENTAL TO OR ACCOMPLISHED UNDER THIS DIVISION SHALL COMPLY WITH ALL REQUIREMENTS OF THE ELECTRICAL CODE.
- G. PLANS ARE DIAGRAMMATIC IN NATURE. CONTRACTOR IS RESPONSIBLE FOR REFERRING TO THE DIVISION DOCUMENTS FOR ALL OTHER DISCIPLINES FOR PROJECT CONSTRUCTION AND OTHER DETAILS WHICH AFFECT THE MECHANICAL INSTALLATION. CONTRACTOR SHALL COORDINATE WITH ALL OTHER TRADES FOR FINISHING ADJACENT TO ITS WORK AND ARRANGE TO HAVE VISIBLE PORTIONS OF THIS WORK (SUCH AS ACCESS DOORS, VALVES, SPRINKLER HEADS, ESCUTCHEONS, ETC.) MERGE WITH THE FINISH IN A MANNER SATISFACTORY TO THE ARCHITECT.
- H. CONTRACTOR SHALL IDENTIFY ALL SERVICEABLE ITEMS (VALVES, CLEANOUTS, COILS, ETC.) SO THAT THE CEILING SUBCONTRACTOR MAY KNOW WHERE TO INSTALL ACCESS-TYPE PANELS SHOULD A LIFT-UP TYPE CEILING NOT BE INSTALLED. THIS CONTRACTOR SHALL PROVIDE ACCESS PANELS FOR HIS WORK UNLESS SPECIFICALLY NOTED ON THE DRAWINGS. ARCHITECT SHALL APPROVE LOCATIONS OF ACCESS PANELS PRIOR TO INSTALLATION.
- I. CEILING HEIGHTS: ARCHITECTURAL DRAWINGS SHALL BE CHECKED FOR CEILING HEIGHTS, WALLS, AND CABINETS THAT ARE INTENDED TO CONCEAL WORK OF THIS SECTION WHERE CONFLICTS OCCUR. THE ARCHITECT SHALL BE NOTIFIED PRIOR TO INSTALL OF THE WORK. LOCATION OF EXPOSED WORK SUCH AS PIPING, VALVES, SPEAKERS, SPRINKLER HEADS TAKE PRECEDENCE OVER CONCEALED WORK.
- J. CONTRACTOR SHALL EXERCISE CARE TO MINIMIZE ANY DISTURBANCE TO ADJACENT AREA OF THE BUILDING WHICH ARE TO REMAIN IN OPERATION. ISOLATE WORK AREAS BY TEMPORARY PARTITIONS, TARPS, ETC., TO KEEP DUST AND DEBRIS OUT OF THE WORK AREA.
- K. PROVIDE ALL NECESSARY FLASHING, SEALING, ETC., TO MAINTAIN THE WATERPROOF INTEGRITY OF THE BUILDING AS REQUIRED BY THE INSTALLATION OF ITEMS AS REQUIRED BY THIS SCOPE OF WORK.
- L. INSTALL ALL WORK OF THIS SCOPE TO BE READILY ACCESSIBLE FOR OPERATION, MAINTENANCE, AND REPAIR. MINOR DEVIATION FROM THE DRAWING MAY BE MADE TO ACCOMPLISH THIS, BUT CHANGES INVOLVING OTHER TRADES MAY NOT BE MADE WITHOUT PRIOR APPROVAL.
- M. ALL PENETRATIONS MADE THROUGH RATED ASSEMBLIES TO ACCOMMODATE WORK OF THIS SECTION, MUST BE SEALED TO MAINTAIN THE RATING OF SUCH ASSEMBLY BY A U.L. RECOGNIZED SEALING METHOD.
- N. PROVIDE ALL CUTTING AND PATCHING REQUIRED FOR INSTALLATION OF THIS WORK. COORDINATE ALL BLOCKING, SUPPORT, ETC., NECESSARY FOR THE INSTALLATION OF THIS WORK WITH THE GENERAL CONTRACTOR.

1.3 CODES, STANDARDS, PERMITS, AND FEES

- A. ALL APPLICABLE CODES LAWS AND REGULATIONS GOVERNING OR RELATING TO ANY PORTION OF THIS WORK ARE HEREBY INCORPORATED INTO AND MADE A PART OF THESE SPECIFICATIONS. THEIR PROVISIONS SHALL BE CARRIED OUT BY THE CONTRACTOR, WHO SHALL INFORM THE ARCHITECT IN WRITING PRIOR TO SUBMITTING A BID, OF ANY WORK OR MATERIALS WHICH VIOLATE ANY OF THE ENFORCED LAW, ORDINANCES, RULES AND REGULATIONS. HE SHALL ASSUME FULL RESPONSIBILITY, AND SHALL BEAR ALL COSTS ASSOCIATED WITH BRINGING WORK INTO COMPLIANCE.
- B. WHERE DRAWINGS AND SPECIFICATIONS CALL FOR MATERIAL OR CONSTRUCTION OF A BETTER QUALITY OR HIGHER CAPACITY THAN REQUIRED BY THE ABOVE-MENTIONED CODES AND STANDARDS, THE PROVISIONS OF THE DRAWINGS OR SPECIFICATIONS SHALL TAKE PRECEDENCE OVER THE CODES AND STANDARDS.
- C. THE RESPECTIVE SUB-CONTRACTOR, AT HIS EXPENSE, SHALL OBTAIN ALL PERMITS AND FEES REQUIRED FOR THIS SCOPE OF WORK ON THIS PROJECT. THE SUB-CONTRACTORS SHALL ALSO SCHEDULE ALL REQUIRED INSPECTIONS AND OBTAIN CERTIFICATES FOR HIS WORK, AT HIS EXPENSE.

1.4 SUBMITTALS AND SUBSTITUTIONS

- A. SUBMITTAL MATERIALS SHALL BE COMPLETE IN EVERY RESPECT AND SHALL CLEARLY INDICATE EQUIPMENT FEATURES, DIMENSIONS, WEIGHTS, PERFORMANCE CHARACTERISTICS, AND CAPACITIES. CAPACITY AND PERFORMANCE CALCULATION SHALL BE ADJUSTED TO INDICATE ACTUAL EQUIPMENT PERFORMANCE AT THE PROJECT ELEVATION. LITERATURE OR DRAWINGS THAT DESCRIBE MORE THAN ONE MODEL OR SIZE OF EQUIPMENT SHALL BE MARKED WITH ARROWS OR OTHERS CLEARLY INSCRIBED TO IDENTIFY THE ACTUAL EQUIPMENT THAT WILL BE FURNISHED. ALL OPTIONS AND SPECIAL PARTS SHALL BE CLEARLY IDENTIFIED. ALL SUBMITTED MATERIALS MUST BE CLEAR, COMPLETE, AND LEGIBLE. ALL SUBMITTALS OF THIS SCOPE MUST BE SUBMITTED AT ONE TIME. MULTIPLE AND VARIED SUBMITTALS WILL BE REJECTED.
- B. SUBMITTALS FOR ALL EQUIPMENT SHALL BE ROUTED THROUGH AND REVIEWED BY THE CONTRACTOR. THE CONTRACTOR SHALL CHECK ALL SUBMITTALS FOR ADEQUATE IDENTIFICATION, CORRECTNESS, AND COMPLIANCE WITH CONTRACT DRAWINGS AND SPECIFICATIONS AND APPLY A STAMP OF APPROVAL. FOR SUBMITTALS THAT ARE REQUIRED TO BE REVIEWED BY THE ENGINEER, A DIGITAL COPY SHALL BE FORWARDED FOR REVIEW AFTER REVIEW AND APPROVAL BY THE CONTRACTOR. THESE SHALL BE RETURNED AND SHALL BE REVISED AND RESUBMITTED UNTIL ACCEPTED BY THE ENGINEER. PROVIDE PRODUCT DATA FOR EACH PIECE OF EQUIPMENT/COMPONENT LISTED BELOW.
1. FLOOR AND ROOF DRAINS, FLOOR SINKS, CLEANOUTS.
2. ALL PLUMBING FIXTURES AND ACCESSORIES.
3. PUMPS.
4. WATER HEATERS.
5. VALVES AND PIPE ACCESSORIES.
6. PIPE INSULATION AND LOCATIONS.
- C. APPROVED MANUFACTURERS: ANY SUBMITTAL EQUIPMENT, PRODUCT TO THOSE SPECIFIED, ARE LISTED IN THE EQUIPMENT SCHEDULES. ANY SUBMITTAL FOR CONSIDERATION AS AN EQUAL TO THAT SCHEDULED MUST CONTAIN ALL INFORMATION REQUIRED TO EVALUATE THIS CLAIM. MANUFACTURERS NOT LISTED AS EQUAL MUST SUBMIT IN WRITING FOR REVIEW FIVE DAYS PRIOR TO BID CLOSURE. CONTRACT IS RESPONSIBLE TO ASSURE ANY SUBMITTED ITEM MEETS ALL PHYSICAL AND PERFORMANCE REQUIREMENTS AS INTENDED IN THE DESIGN DOCUMENTS.
- D. APPROVAL OF SUBMITTALS BY THE ENGINEER SHALL NOT RELIEVE THE CONTRACTOR FROM RESPONSIBILITY FOR ERRORS IN SHOP DRAWINGS OR OTHER SUBMITTAL LITERATURE.
- E. CONTRACTOR HAS THE SOLE RESPONSIBILITY TO COORDINATE ANY SUBSTITUTIONS WITH ALL OTHER DISCIPLINES. EQUIPMENT OF GREATER POWER, DIMENSIONS, CAPACITIES, AND RATINGS MAY BE FURNISHED PROVIDED SUCH PROPOSED EQUIPMENT IS APPROVED IN WRITING AND CONNECTING MECHANICAL AND ELECTRICAL SERVICES, CIRCUIT BREAKERS, CONDUITS, MOTORS, BASES, AND EQUIPMENT SPACES ARE INCREASED. NO ADDITIONAL COSTS WILL BE ACCEPTED FOR THESE INCREASES. IF LARGER EQUIPMENT IS PROVIDED, IF MINIMUM ENERGY RATINGS OR EFFICIENCIES OF THE EQUIPMENT ARE SPECIFIED, THE EQUIPMENT MUST MEET THE DESIGN REQUIREMENTS AND COMMISSIONING REQUIREMENTS.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. DELIVER PRODUCTS TO THE PROJECT PROPERLY IDENTIFIED WITH NAMES, MODEL NUMBERS, TYPES, GRADES, COMPLIANCE LABELS, AND OTHER INFORMATION NEEDED FOR IDENTIFICATION.
- B. ALL MECHANICAL EQUIPMENT AND MATERIAL ITEMS SHALL BE PROTECTED FROM WEATHER AND VANDALISM PRIOR TO ACTUAL INSTALLATION. FAN WHEELS, PUMPS AND OTHER ROTATING MACHINERY SHALL BE PERIODICALLY ROTATED DURING STORAGE. ANY FACTORY PAINTED EQUIPMENT SCRATCHED OR MARRED DURING SHIPMENT OR CONSTRUCTION SHALL BE RESTORED TO ORIGINAL "NEW" CONDITION. THIS INCLUDES COMPLETE REPAINTING OF THE EQUIPMENT IF NECESSARY TO PROVIDE EXACT PAINT MATCH.
- C. CONTRACTOR IS RESPONSIBLE FOR RECEIVING AND OFFLOADING EQUIPMENT OF HIS SCOPE. IMMEDIATELY UPON RECEIPT, CONTRACTOR SHALL INSPECT ALL EQUIPMENT AND MATERIAL FOR SHIPPING DAMAGE AND REPLACE ANY DEFECTIVE ITEMS AT NO INCREASE TO CONTRACT AMOUNT.

1.6 SEQUENCING AND SCHEDULING

- A. COORDINATE PLUMBING EQUIPMENT INSTALLATION WITH OTHER BUILDING COMPONENTS PRIOR TO ORDERING OR FABRICATION OF ADJOINING WORK.
- B. COORDINATE THE INSTALLATION OF REQUIRED SUPPORTING DEVICES AND SET SLEEVES IN POURED-IN-PLACE CONCRETE AND OTHER STRUCTURAL COMPONENTS AS THEY ARE CONSTRUCTED. ARRANGE FOR CHASES, SLOTS, AND OPENINGS IN BUILDING STRUCTURE DURING PROGRESS OF CONSTRUCTION TO ALLOW FOR MECHANICAL INSTALLATIONS.
- C. SEQUENCE, COORDINATE, AND INTEGRATE INSTALLATIONS OF MECHANICAL MATERIALS AND EQUIPMENT FOR EFFICIENT FLOW OF THE WORK. COORDINATE LARGE EQUIPMENT REQUIRING DISMANTLING OR POSITIONING PRIOR TO CLOSING IN THE BUILDING.
- D. COORDINATE CONNECTION OF MECHANICAL SYSTEMS WITH EXTERIOR UNDERGROUND AND OVERHEAD UTILITIES AND SERVICES. COMPLY WITH REQUIREMENTS OF GOVERNING REGULATIONS, FRANCHISE SERVICE COMPANIES, AND CONTROLLING AGENCIES. COORDINATE CONNECTION OF ELECTRICAL SERVICES.
- E. PROVIDE IDENTIFICATION OF ALL EQUIPMENT. COORDINATE INSTALLATION OF IDENTIFYING DEVICES AFTER COMPLETING COVERAGE AND PAINTING WHERE DEVICES ARE APPLIED TO SURFACES. INSTALL IDENTIFYING DEVICES PRIOR TO INSTALLING ACOUSTICAL CEILINGS AND SIMILAR CONCEALMENT.

1.7 PROJECT CLOSE-OUT

- A. CONTRACTOR SHALL FURNISH A WRITTEN GUARANTEE TO REPLACE OR REPAIR ANY DEFECTS IN WORKMANSHIP OR EQUIPMENT, WHICH DEVELOP WITHIN ONE YEAR FROM ACCEPTANCE BY THE OWNER. CONTRACTOR MUST ASSUME RESPONSIBILITY FOR ALL EXPENSES INCURRED TO REPAIR OR REPLACE HIS WORK AS WELL AS WORK OF OTHER TRADES THAT MAY BE AFFECTED BY THIS REPLACEMENT.
- B. CONTRACTOR SHALL MAINTAIN A REDLINED SET OF CONSTRUCTION DRAWINGS SHOWING DEVIATIONS BETWEEN THE DRAWINGS AND INSTALLED CONDITIONS. THESE SHALL BE TURNED OVER TO THE OWNER AT ACCEPTANCE OF THE WORK.
- C. PROVIDE THREE (3) COMPLETE SETS OF OPERATION AND MAINTENANCE MANUALS. THESE ARE TO INCLUDE ALL EQUIPMENT CUT SHEETS, MANUFACTURERS WARRANTY INFORMATION, AND CONTRACTORS WARRANTY LETTER AND CONTACT INFORMATION.
- D. PROVIDE THREE (3) REVIEWED BALANCE REPORTS OF WATER AND AIR SYSTEMS AS APPLICABLE.

PART 2 - PRODUCTS

2.1 GENERAL PIPE MATERIALS AND FITTINGS

- A. ABOVE GRADE DOMESTIC WATER PIPING SHALL BE ANY OF THE FOLLOWING:-

1. ALL SIZES: HARD COPPER TUBE CONFORMING TO ASTM B-88, TYPE-L; COPPER PRESSURE FITTINGS PER ASTM B16.18, AND ALLOY 506S SOLDER WITH WATER SOLUBLE FLUX.
2. NPS 1 AND SMALLER: PEK PER ASTM F877, SDR 9 TUBING, DISTRIBUTION MANIFOLD, INSERT FITTINGS, AND CRIMPED JOINTS.

- B. BELOW GRADE DOMESTIC WATER PIPING SHALL BE ANY OF THE FOLLOWING:-

1. SOFT COPPER TUBE, TYPE K OR L CONFORMING TO ASTM B-88; COPPER PRESSURE FITTINGS AND SOLDERED JOINTS.
2. WRAP BURIED METALLIC PIPE PER ASTM A 874 OR AWWA C105; HDPE, CROSS LAMINATED PE FILM OF 0.04 INCH (0.04MM) OR 0.04MM THICKNESS.
3. HDPE (HIGH DENSITY POLYETHYLENE) PLASTIC PIPE AND FITTING FOR WATER SERVICE ENTRY PIPING.
- a. PIPE CONFORMING TO ASTM D 2329, ASTM D 2337, AWWA C901, MINIMUM 160 PSI PRESSURE CLASS, SDR EQUAL TO 9.
- b. FITTINGS CONFORMING TO ASTM D 2009, METAL INSERT FITTING AND TWO STAINLESS STEEL CLAMPS; FOR OVER 1-1/2 INCH SPECIAL, HEAVY DUTY TIGHTENING CLAMPS.

- C. ABOVE GRADE SANITARY WASTE & VENT SHALL BE ANY OF THE FOLLOWING:

1. PVC SOIL PIPE AND FITTINGS, STANDARD AND HEAVY-DUTY SHIELDED, STAINLESS STEEL COUPLINGS; AND AND HUBLESS COUPLING JOINTS.
2. ROR
3. ROR
4. MU
5. NPW
6. V
7. DIS
8. DIR
9. SAN
10. GW
11. GV
12. RD
13. ORD
14. LRG
15. G
16. NGM
17. NGH
18. IRR
19. SCW
20. SHW
21. TWR
22. TW
23. PD
24. ICW
25. IHW
26. IHW
27. INW
28. IA
29. IW
30. LA

- D. BELOW GRADE SANITARY WASTE AND VENT SHALL BE ANY OF THE FOLLOWING:
1. PVC SOIL PIPE AND FITTINGS PER CISP 301; HEAVY DUTY SHIELDED, STAINLESS STEEL COUPLINGS; AND HUBLESS COUPLING JOINTS.
 2. SOLID WALL ABS PIPE PER ASTM D 2661, SCHEDULE 40, ABS SOCKET FITTINGS, AND SOLVENT-CEMENTED JOINTS.
 3. SOLID WALL PVC PIPE PER ASTM D2665, SCHEDULE 40 DRAIN, WASTE & VENT, PVC SOCKET FITTINGS, AND SOLVENT-CEMENTED JOINTS.
 4. CELLULAR-CORE ABS PIPE PER ASTM F 628, SCHEDULE 40.
 5. CELLULAR-CORE PVC PIPE PER ASTM F 891, SCHEDULE 40.

- E. STORM DRAINAGE PIPING SHALL BE ANY OF THE FOLLOWING:

1. PVC SOIL PIPE AND FITTINGS PER CISP 301; HEAVY-DUTY SHIELDED, STAINLESS STEEL COUPLINGS; AND HUBLESS COUPLING JOINTS.
2. SOLID WALL ABS PIPE PER ASTM D 2661, SCHEDULE 40, ABS SOCKET FITTINGS, AND SOLVENT-CEMENTED JOINTS.
3. SOLID WALL PVC PIPE PER ASTM D2665, SCHEDULE 40 DRAIN, WASTE & VENT, PVC SOCKET FITTINGS, AND SOLVENT-CEMENTED JOINTS.
4. CELLULAR-CORE ABS PIPE PER ASTM F 628, SCHEDULE 40.
5. CELLULAR-CORE PVC PIPE PER ASTM F 891, SCHEDULE 40.

- F. FUEL GAS PIPING SHALL BE ANY OF THE FOLLOWING:

1. ALL SIZES: STEEL PIPE PER ASTM A53A 53M, TYPE E OR S, GRADE B; BLACK, WALL THICKNESS OF WROUGHT-STEEL PIPE SHALL COMPLY WITH ASME B31.10.
2. MALLEABLE-IRON THREADED FITTINGS: ASME B16.3, CLASS 150.
3. STANDARD PATTERNS WITH THREADED ENDS ACCORDING TO ASME B1.20.1.
4. STEEL WELDING FITTINGS: ASME B16.3, WROUGHT STEEL OR ASME B16.11, FORGED STEEL.
5. UNIONS, ASME B16.3, CLASS 150, MALLEABLE IRON WITH BRASS-TO-IRON SEAT GROUND JOINT, AND THREADED ENDS ACCORDING TO ASME B1.20.1.
6. JOINT COMPOUND AND TAPE: SUITABLE FOR NATURAL GAS.
7. STEEL FLANGES AND FLANGED FITTINGS: ASME B16.5.

2. NPS 1 AND SMALLER MAY BE CORRUGATED STAINLESS STEEL TUBING SYSTEMS. a. DESCRIPTION: COMPLY WITH AGA LC 1 AND INCLUDE THE FOLLOWING:
- 1) TUBING: CORRUGATED STAINLESS STEEL WITH PLASTIC JACKET OR COATING.
 - 2) FITTINGS: COPPER ALLOY WITH ENDS MADE TO FIT CORRUGATED TUBING. INCLUDE ENDS WITH THREADS ACCORDING TO ASME B1.20.1.
 - 3) STRIKER PLATES: STEEL, DESIGNED TO PROTECT TUBING FROM PENETRATIONS.
 - 4) MANIFOLDS: MALLEABLE IRON OR STEEL WITH PROTECTIVE COATING. INCLUDE THREADED CONNECTIONS ACCORDING TO ASME B1.20.1 FOR PIPE INLET AND CORRUGATED TUBING OUTLETS.
 5. ACCEPTABLE MANUFACTURERS: OMEGARLEX, INC., TITLEFLEX XORP, TRU-FLEX METAL HOSE CORP., WARD INDUSTRIES, INC.

- G. INDIRECT WASTE PIPING SHALL BE ANY OF THE FOLLOWING:
1. SOLID WALL PVC PIPE PER ASTM D 2665, SCHEDULE 40 DRAIN, WASTE AND VENT, PVC SOCKET FITTINGS, AND SOLVENT-CEMENTED JOINTS.
 2. HARD COPPER TUBE CONFORMING TO ASTM B-88, TYPE L WATER TUBE, DRAIN AND TEMPER, COPPER PRESSURE FITTINGS PER ASME B16.18; AND ALLOY 506S SOLDER WITH WATER SOLUBLE FLUX.

- H. VALVES AND PLUMBING SPECIALTIES:

1. ACCEPTABLE MANUFACTURERS: WATTS, APOLLO, RED & WHITE, NBCCO, MILWAUKEE, ARMSTRONG.
2. GENERAL USE VALVES:
 - a. BALL VALVE/ALL PORT THRU 3"- WATTS FV5V-1 SERIES
 - b. GATE VALVE/THRU 4"- WATTS WG-1 SERIES
 - c. GATE/THRU 1 1/2"- WATTS GBV SERIES
 - d. GLOBE/THRU 2 1/2"- WATTS GLV SERIES
 - e. CHECK/THRU 3"- WATTS WCV-2 SERIES
 - f. STRAINER (THRU 1 1/2"- WATTS S777S SERIES)
 - g. BALANCE (THRU 3 1/2"- WATTS CBM-1/4M SERIES)
 - h. BUTTERFLY (3" AND LARGER).
3. WATER HAMMER ARRESTERS (SIOUX CHIEF, PPP, SMITH) METAL BELLOW OR COPPER TUBE WITH PISTON PER ASSE 1010 OR PDH-WH 201. PROVIDE ACCESS PANELS AS REQUIRED.

- I. DIELECTRIC FITTINGS:
1. COMBINATION FITTING OF COPPER ALLOY AND FERROUS MATERIALS WITH THREADED, SOLDER-JOINT, FLARE, OR WELD-NECK ENDS THAT MATCH PIPING SYSTEM MATERIALS.
 2. DIELECTRIC UNIONS: FACTORY-FABRICATED, UNION ASSEMBLY, FOR 3/8" MINIMUM WORKING PRESSURE AT THE DEGREE.
 3. DIELECTRIC COUPLINGS: GALVANIZED STEEL COUPLING WITH INERT AND NON-CORROSIVE, THERMOPLASTIC LINING, THREADED ENDS, AND 300-PSI MINIMUM WORKING PRESSURE AT 225 DEG F.

2.2 PIPE JOINT CONSTRUCTION

- A. SOLDERED JOINTS: USE ASTM B813, WATER-FLUSHABLE, EAD-FREE FLUX, ASTM B82C, LEAD-FREE ALLOY SOLDER, AND ASTM B88 PROCEDURE, UNLESS OTHERWISE INDICATED.
- B. BRASS JOINTS: IF TALS AVALS & BCUF SERIES COPPER-PHOSPHORUS ALLOYS FOR GENERAL UTILITY BRAZING, UNLESS OTHERWISE INDICATED; AND AWS 5.8, B8G1 SILVER ALLOY FOR REFRIGERANT PIPING, UNLESS OTHERWISE INDICATED.
- C. EXTRUDED-TEE CONNECTIONS: FORM TEE IN COPPER TUBE ACCORDING TO ASTM F 2014. USE TOOL DESIGNED FOR COPPER TUBE. DRILL PILOT HOLE, FORM COLLAR FOR OUTLET, DUMPLE TUBE TO FORM SEATING STOP, AND BRAZE BRANCH TUBE INTO COLLAR.
- D. SOLVENT CEMENTS FOR JOINING PLASTIC PIPING:
1. ABS PIPING: ASTM D 2235.
 2. CPVC PIPING: ASTM F 489.
 3. PVC PIPING: ASTM D 2665. INCLUDE PRIMER ACCORDING TO ASTM F 666.
 4. PVC TO ABS PIPING TRANSITION: ASTM D 3138.

2.3 PIPE INSULATION

- A. ALL INSULATION SHALL MEET FLAME/SMOKE SPREAD RATING OF $\frac{1}{2}$ ACCORDING TO ASTM E84 AND NFPA 90A.
- B. INSULATION TYPES:

1. FLEXIBLE ELASTOMERIC, CLOSED-CELL, SPONGE-OR EXPANDED-RUBBER MATERIALS, COMPLY WITH ASTM C-534, TYPE I FOR TUBULAR MATERIALS AND TYPE I FOR SHEET MATERIALS.
2. GLASS-FIBER, PIPE INSULATION: GLASS FIBERS BONDED WITH A THERMOSETTING RESIN, SEMI RIGID BOARD MATERIAL, WITH FACTORY-APPLIED ADH JACKET COMPLYING WITH ASTM C-1583, TYPE II OR TYPE IIIA CATEGORY C, OR WITH PROPERTIES SIMILAR TO ASTM C 612, TYPE IB. NOMINAL DENSITY IS 2.5 LB/CU. FT. OR MORE. THERMAL CONDUCTIVITY (K-VALUE) IS 0.029 TO 0.032 IN H X 0.50 FT. X 0.063 G OR LESS.

3. JACKETS:
- a. PROVIDE ALUMINUM JACKET TO COMPLY WITH ASTM B 209, ALLOY 3003, 3005, 3105 OR 5005, TEMPER H-14, ON ALL EXTERIOR PIPING WITH INSULATION. PROVIDE 3-MIL VAPOR BARRIER.

- C. INSULATION SCHEDULE:
1. DOMESTIC COLD WATER:
 - a. ALL SIZES: INSULATION SHALL BE ONE OF THE FOLLOWING:
 - 1) FLEXIBLE ELASTOMERIC, MIN. 1" THICK R-6.
 2. DOMESTIC HOT WATER:
 - a. ALL SIZES: INSULATION SHALL BE ONE OF THE FOLLOWING:
 - 1) FLEXIBLE ELASTOMERIC, MIN. 1" THICK R-6.
 3. DOMESTIC RE-CIRCULATED HOT WATER:
 - a. NPS 1-1/2 AND SMALLER: INSULATION SHALL BE ONE OF THE FOLLOWING:
 - 1) FLEXIBLE ELASTOMERIC, MIN. 1" THICK R-6.

- b. NPS 2 AND LARGER: INSULATION SHALL BE ONE OF THE FOLLOWING:
 - 1) FLEXIBLE ELASTOMERIC, MIN. 1" THICK R-6.

4. STORM DRAINAGE PIPING:
- a. DRAIN BODIES AND HORIZONTAL PIPING: INSULATION SHALL BE ONE OF THE FOLLOWING:
 - 1) GLASS-FIBER PIPE INSULATION, TYPE I, 1/2 INCHES THICK. 2 1/4" BATT INSULATION MAY BE USED FOR DRAIN BODIES.

5. ACCEPTABLE MANUFACTURERS: ARMSTRONGS, CERTAINEED, OWENS-CORNING, JOHNS MANVILLE, ARMACELL.

- E. PIPE INSULATION R VALUES SHALL MEET OR EXCEED IECC 403.5.3.

PLUMBING LEGEND

PIPING SYMBOLS

SYMBOL	ABBREVIATION	DESCRIPTION
---	AV	ACID VENT
---	AW	ACID WASTE
---	CA	COMPRESSED AIR
---	CD	CONDENSATE DRAIN
---	DCW	DOMESTIC COLD WATER
---	DHW	DOMESTIC HOT WATER
---	DHWR	DOMESTIC HOT WATER RETURN
---	DHW 140°F	140° DOMESTIC HOT WATER
---	DHWR 140°F	140° DOMESTIC HOT WATER RETURN
---	ROS	REVERSE OSMOSIS SUPPLY
---	ROR	REVERSE OSMOSIS RETURN
---	MU	MAKE-UP WATER
---	NPW	NON-POTABLE WATER
---	V	VENT
---	DIS	DEIONIZED WATER SUPPLY
---	DIR	DEIONIZED WATER RETURN
---	SAN	SANITARY SEWER
---	GW	GREASE WASTE
---	GV	GREASE VENT
---	RD	STORM/ROOF DRAIN
---	ORD	OVERFLOW ROOF DRAIN
---	LRG	LIQUIFIED PETROLEUM GAS
---	G	NATURAL GAS-LOW PRESSURE
---	NGM	NATURAL GAS-MEDIUM PRESSURE
---	NGH	NATURAL GAS-HIGH PRESSURE
---	IRR	IRRIGATION
---	SCW	SOFT COLD WATER
---	SHW	SOFT HOT WATER
---	TWR	TEMPERED WATER RETURN (TEMP °F)
---	TW	TEMPERED WATER (TEMP °F)
---	PD	PUMPED DISCHARGE LINE
---	ICW	INDUSTRIAL COLD WATER
---	IHW	INDUSTRIAL HOT WATER
---	IHW	INDUSTRIAL HOT WATER RETURN
---	INW	INDUSTRIAL WASTE
---	IA	INSTRUMENT COMPRESSED AIR
---	IW	INDIRECT WASTE
---	LA	LAB COMPRESSED AIR

VALVE SYMBOLS

SYMBOL	DESCRIPTION
	GATE VALVE
	GLOBE VALVE
	SOLENOID VALVE
	OS&Y VALVE
	BUTTERFLY VALVE
	BALL VALVE
	CHECK VALVE
	PLUG VALVE
	BALANCING VALVE/CIRCUIT SETTER MEASURING DEVICE
	WATER PRESSURE REDUCING VALVE
	2-WAY CONTROL VALVE
	3-WAY MODULATING CONTROL VALVE
	FUEL GAS PRESSURE REGULATOR
	PRESSURE RELIEF VALVE
	TEMPERATURE AND PRESSURE RELIEF VALVE
	DRAIN VALVE
	VALVE IN VERTICAL
	FLOW SWITCH
	DIAPHRAGM (PROCESS SYSTEMS)
	REDUCED PRESSURE BACKFLOW PREVENTER (RPBP)

SECTION SYMBOL

	SECTION LETTER
	DRAWING NUMBER WHERE DETAILED

DETAIL SYMBOL

	DETAIL NUMBER
	DRAWING NUMBER WHERE DETAILED

FIXTURE & EQUIPMENT SYMBOL

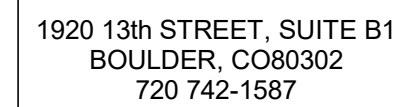
	LETTER REFER TO EQUIPMENT TYPE
	NUMBER REFERS TO SPECIFIC EQUIPMENT
	SYMBOL INDICATES FIXTURE/EQUIPMENT IDENTIFIED IN EQUIPMENT SCHEDULE

SCHEMATIC SYMBOLS

SYMBOL	DESCRIPTION	SYMBOL	DESCRIPTION
	KEYED NOTE		THERMOMETER
	EXISTING PIPE TO BE REMOVED		PRESSURE GAUGE AND GAUGE COCK
	NEW PIPING		AQUATSTAT
	EXISTING PIPING TO REMAIN		WATER HAMMER ARRESTOR
	NEW PIPE CONNECTION TO EXISTING PIPING		TEST PLUG (PRESS/TEMP)
	SLOPE OF PIPE		PENETRATION
	DIRECTION OF FLOW		MANUAL AIR VENT (MAV)
	DROP IN PIPE		AUTOMATIC AIR VENT (AAV)
	RISE IN PIPE		FLOOR SINK, FLOOR DRAIN, AREA DRAIN
	TOP CONNECTION, 45° OR 90°		FLOOR CLEANOUT/CLEANOUT TO GRADE
	BOTTOM CONNECTION, 45° OR 90°		TWO WAY OR DOUBLE CLEANOUT TO GRADE
	CAPPED OUTLET		ROOF DRAIN/OVERFLOW DRAIN/DECK DRAIN
	SIDE CONNECTION		
	UNION		
	FLANGED UNION		TRAP PRIMER WITH ACCESS PANEL
	ORIFICE UNION		
	REDUCER OR INCREASER		VENT THROUGH ROOF
	ECCENTRIC REDUCER		AIR GAP FITTING
	PIPE GUIDE		WALL HYDRANT, HOSE BIBB
	FLEXIBLE CONNECTION		
	UNIVERSAL TEMPERATURE-PRESSURE FITTING (PETE'S PLUG)		
	STRAINER WITH BLOWDOWN VALVE & HOSE BIBB		

ABBREVIATIONS

AFB	ABOVE FINISHED FLOOR	FOV	FUEL OIL VENT
AFG	ABOVE FINISHED GRADE	FV	FLUSH VALVE
ANT	ACID NEUTRALIZING TANK	GD	GUTTER DRAIN
AVTR	ACID RESISTANT VENT THROUGH ROOF	GI	GREASE INTERCEPTOR
B.C	BALANCING COCK	GPH	GALLONS PER HOUR
BOP	BOTTOM OF PIPE	GPM	GALLONS PER MINUTE
BTU	BRITISH THERMAL UNIT	GW	GAS WATER HEATER
BTUH	BTU PER HOUR	HB	HOSE BIBB
CWB	CLOTHES WASHER BOX	HD	HEAD
CFH	CUBIC FEET PER HOUR	HP	HORSEPOWER
CO	CLEANOUT	IN	INCHES
COTG	CLEANOUT TO GRADE	INV	INVERT
CP	CIRCULATION PUMP	kW	KILOWATT
CVW	COMBINATION WASTE AND VENT	Mbh	1,000 BTUH
DCO	DOUBLE CLEANOUT	MV	MIXING VALVE
DCOTG	DOUBLE CLEANOUT TO GRADE	NA	NOT APPLICABLE
DF	DRINKING FOUNTAIN	NIC	NOT IN CONTRACT
DN	DOWN	No. #	NUMBER
DS	DOWNSPOUT	N.C.	NORMALLY CLOSED
DSN	DOWNSPOUT NOZZLE	N.O.	NORMALLY OPEN
ELH	ELEVATION	OS&Y	OUTSIDE SCREW AND YOKE
EWH	ELECTRIC WATER HEATER	PH	PHASE
EWIC	ELECTRIC WATER CLOUTER	PH	POWER OF HARDNESS
EWV	EMERGENCY EYEWASH	PSIG	POUNDS PER SQUARE INCH GAUGE
ES	EMERGENCY SHOWER	SP	STATIC PRESSURE
ESEW	EMERGENCY SHOWER EYE WASH	TD	TRENCH DRAIN
°F	DEGREES FAHRENHEIT	TYP	TYPICAL
FCO	FLOOR CLEANOUT	YB	YARD BOX
FEE	FINISHED FLOOR ELEVATION	YH	YARD HYDRANT
FEET	FEET	WCO	WALL CLEANOUT
FOS	FUEL OIL SUPPLY	WC	WATER CLOSET
FOR	FUEL OIL RETURN		



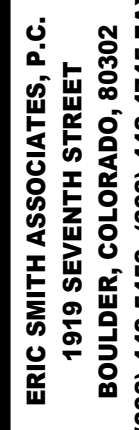
NOTICE: DUTY OF COOPERATION

Release of these plans contemplates further cooperation among the owner, his architect and the architect. Design and construction are complex. Although the architect and his consultants have performed their services with due care and diligence they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated. Any delay or disruption of the project by the use of these plans shall be reported immediately to the architect. Failure to notify the architect compounds misunderstanding and increases construction costs, failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the changes. Changes made without the written consent of the architect are unauthorized and shall relieve the architect of responsibility for all consequences arising out of such changes.

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YVMC MOUNTAIN CLINIC
2305 MOUNTER WERNER CIRCLE'
SUITE P.027
STEAMBOAT SPRINGS, COLORADO

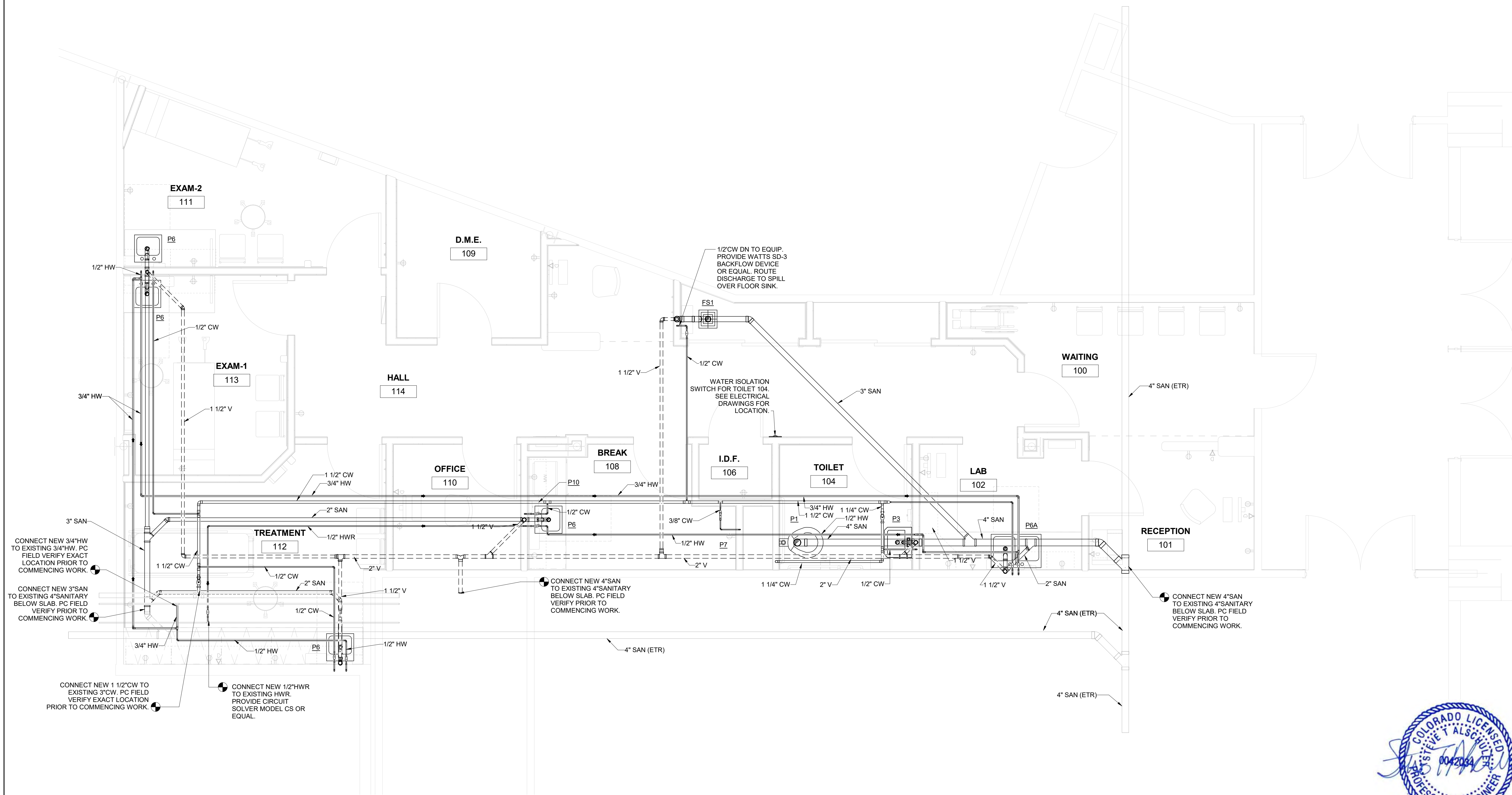


Job Number:	
Date:	06/20/
Drawn By:	AS
Checked By:	JF

Project Phase
Sheet Title
PLUMBING FLOOR PLAN

Sheet Number

P1.1



1 PLUMBING FLOOR PLAN
3/8" = 1'-0"





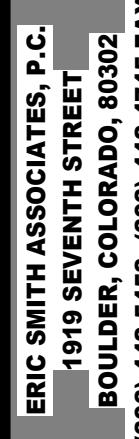
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Release of these plans contemplates further cooperation among the owners. Its contract is with the architect. Design and construction are complex. Although the architect and his consultants have performed their services with due care and diligence they cannot guarantee perfection. Communication is imperfect and every contingency cannot be anticipated. Any architect who disavows his duty to cooperate in these plans shall be notified immediately to the architect. Failure to notify the architect compounds misunderstanding and increases construction costs. Failure to cooperate by a simple notice to the architect shall relieve the architect from responsibility for the consequences. Changes made without the written consent of the architect are unauthorized and shall relieve the architect of responsibility for all consequences arising out of such changes.

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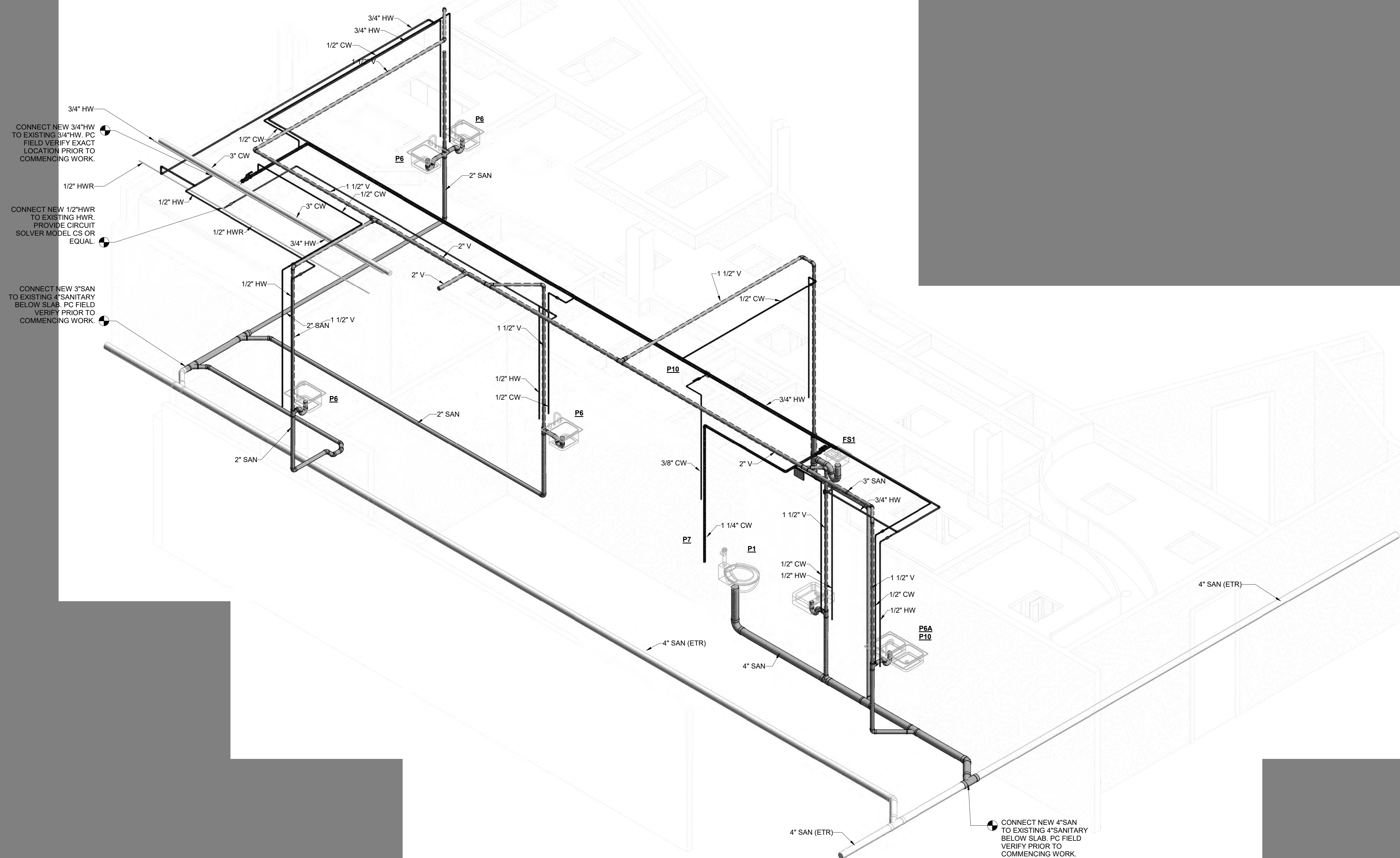
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Project Phase

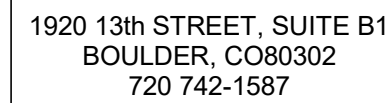
Sheet Title
PLUMBING ISOMETRIC VIEW

Sheet Number

P3.1



1 PLUMBING ISOMETRIC VIEW



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YVMC MOUNTAIN CLINIC
2305 MOUNTER WERNER CIRCLE'
SUITE P.027
STEAMBOAT SPRINGS, COLORADO

Job Number:	
Date:	06/20/11
Drawn By:	AS
Checked By:	JF

Project Phase
Sheet Title
PLUMBING DETAILS
Sheet Number
P5.1

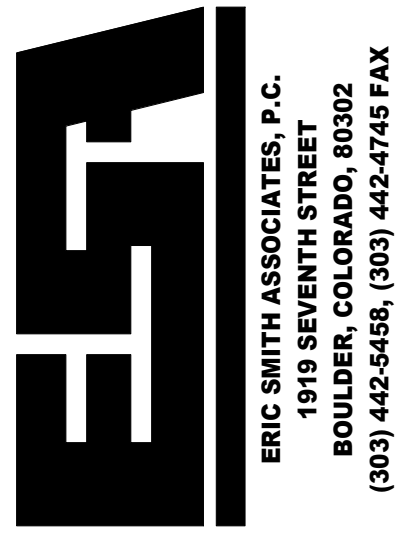


PLUMBING FIXTURE SCHEDULE							
DESIGNATION	MANUFACTURER	MODEL #	FIXTURE DESCRIPTION	CONNECTION SCHEDULE			
				WASTE	VENT	CW	HW
<u>P1</u>	KOHLER	ULTRA K-96053	17" HIGH VITREOUS CHINA WATER CLOSET W/ ELONGATED BOWL (ADA) FLUSH VALVE - KOHLER K-76321-CP SEAT - (NO LID) - CHURCH MODEL 9500-SSC LOW WATER CONSUMPTION (1.6 GALLONS PER FLUSH) LOCATE FLUSH CONTROL ON WIDE SIDE OF STALL	3"	2"	1"	--
<u>P3</u>	KOHLER	CHESAPEAKE K-1728-0	VITREOUS CHINA WALL-HUNG LAVATORY (ADA) FAUCET - CHICAGO 8595-317E2805 TRAP - 1 1/4" CAST BRASS WITH C.O. PLUG SUPPLY - 3/8" ANGLE-TYPE WITH STOPS PROVIDE OFFSET TAILPIECE INSULATE TRAP OUTLET & HW SUPPLY TO MEET A.D.A.	2"	1 1/4"	1/2"	1/2"
<u>P6</u>	ELKAY	ELUHAD121245	SINGLE-COMPARTMENT, STAINLESS STEEL SINK (ADA) FAUCET - CHICAGO 8595-317E2805 CUP STRAINER - ELKAY LK-35 SUPPLY - 3/8" ANGLE-TYPE WITH STOPS TRAP - 1 1/2" CAST BRASS WITH C.O. PLUG	2"	1 1/2"	1/2"	1/2"
<u>P6A</u>	ELKAY	ULHAD2133	DOUBLE-COMPARTMENT, STAINLESS STEEL SINK (ADA) FAUCET - CHICAGO 786-GN8AFCABCP CUP STRAINERS - (2) ELKAY LK-35 SUPPLY - 3/8" ANGLE-TYPE WITH STOPS TRAP - 1 1/2" CAST BRASS WITH C.O. PLUG	2"	1 1/2"	1/2"	1/2"
<u>FS1</u>	ZURN	Z-1750	STAINLESS STEEL FLOOR SINK, 12"x12"x6", PROVIDE FULL SIZE SS GRATE SEE FLOOR PLANS FOR DRAIN SIZES.	--	--	--	--
SA	ZURN	Z-1700 SERIES	WATER HAMMER ARRESTOR. SIZE PER P.D.I. WH-201 VERIFY THAT COMPONENT IS ACCESSIBLE.	--	--	--	--



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YVMC MOUNTAIN CLINIC
2305 MOUNTER WERNER CIRCLE'
SUITE P.027
STEAMBOAT SPRINGS, COLORADO



Project Phase
Sheet Title PLUMBING LEGEND & SCHEDULE
Sheet Number P6.1

ALL DISTANCES ARE TO CENTER OF DEVICE OR EQUIPMENT UNLESS OTHERWISE NOTED. DEVICES INDICATED AT 48" MAY NOT BE INSTALLED WITH ANY OPERABLE PART HIGHER THAN 48". DEVICES MAY NOT BE INSTALLED IN CONCRETE MASONRY UNITS WITH THE TOP OF THE DEVICE AT 48".

* DISTANCE ABOVE TOP OF DOOR FRAME	**** DISTANCE BELOW CEILING
** DISTANCE TO TOP OF EQUIPMENT OR DEVICE	***** DISTANCE TO BOTTOM OF DEVICE
*** DISTANCE TO HIGHEST OPERABLE PART OF EQUIPMENT	

<p>THE LIGHTING FIXTURE TYPE IS INDICATED BY AN UPPER CASE LETTER.</p> <p>THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER.</p> <p>THE SWITCH DESIGNATION IS INDICATED BY A LOWER CASE LETTER.</p>	<p>7.9</p>	<p>ELECTRIC HEATER CONNECTIONS. THE HEATER TYPE IS INDICATED BY A NUMBER FOLLOWING THE UPPER CASE LETTER "H". SEE THE HEATER SCHEDULE FOR ELECTRICAL REQUIREMENTS. THE CIRCUIT DESIGNATION IS INDICATED BY A</p>
--	------------	--

ELECTRIC HEATER CONNECTIONS. THE HEATER TYPE IS INDICATED BY A NUMBER FOLLOWING THE UPPER CASE LETTER "H". SEE THE HEATER SCHEDULE FOR ELECTRICAL REQUIREMENTS. THE CIRCUIT DESIGNATION IS INDICATED BY A NUMBER(S) ADJACENT TO THE HEATER. EXAMPLE: ELECTRIC BASEBOARD HEATER TYPE "H1" CONNECTED TO CIRCUITS 7, 9.

7,9
H1

T1

LPN-102

—

CONDUIT SHOWN WITHOUT SLASH MARKS SHALL CONTAIN 2 # 12 CONDUCTORS IN 3/4" CONDUIT UNLESS SPECIFIC EQUIPMENT REQUIRES A DIFFERENT SIZE.

#10

LPN-102
1,3,5

1P	1 POLE (2P, 3P, 4P, ETC.)	CR T	CATHODE-RAY TUBE CURRENT TRANSFORMER	GRS	GALVANIZED RIGID STEEL (CONDUIT)	N.C.	NORMALLY CLOSED	TEL	TELEPHONE
A	AMPERE	CU	CENTER	GYP BD	GYPSUM BOARD	NEMA	NATIONAL ELECTRICAL CODE TERMINAL	TEL DATA	TELEPHONE/ DATA
AC	ABOVE COUNTER OR AIR CONDITIONER	CU	COPPER	HOA	HANDS-OF-AUTOMATIC SWITCH	NFC	NATIONAL ELECTRICAL CODE MANUFACTURERS	TERM	TERMINAL
ACLG	ABOVE CULING	DCP	DOMESTIC WATER CIRCULATING PUMP	HORIZ	HORIZONTAL	NFCS	ASSOCIATION	TR	TRAVEL LOCK
AF	AMP FRAME	DEPT	DEPARTMENT	HP	HORSEPOWER	NFCS	NON-FUSED SAFETY	TR	TAMPER RESISTANT
AFB	ABOVE FINISHED FLOOR	DET	DETAIL	HPF	HIGH POWER FACTOR	NFCS	NIGHT LIGHT	T-STAT	THERMOSTAT
AFG	ABOVE FINISHED GRADE	DIA	DIAMETER	HT	HEIGHT	NFCS	NORMALLY OPEN	TTC	TELEPHONE TERMINAL
AFI	ARC FAULT CIRCUIT INTERRUPTER	DISC	DISCONNECT	HTR	HEATING	NFCS	NIGHT LIGHT	TV	TELEVISION
AHU	AIR HANDLING UNIT	DIST	DISTRIBUTION	HV	HIGH-VOLTAGE	NFCS	NORMALLY OPEN	TVTC	TELEVISION TERMINAL
AL	ALUMINUM	DN	DOWN	HVAC	HEATING, VENTILATING AND AIR CONDITIONING	NTS	NOT TO SCALE	TYP	TYPICAL
ALT	ALTERNATE	DPR	DAMPER	HWP	HYDRONIC WATER PUMP	OL	OVERHEAD OVERLOADS	UC	UNDER COUNTER
AMP	AMPERE	DS	DOUBLE DISCONNECT SWITCH	IC	INTERRUPTING CAPACITY	PA	PUBLIC ADDRESS	UE	UNDERGROUND ELECTRICAL
AMPL	AMPLIFIER	DS	DOUBLE THROW	IG	ISOLATED GROUND	PB	PULL BOX OR PUSHBUTTON	UG	UNDERGROUND
ANNU	ANNUNCIATOR	DWG	DRAWING	INC	INTERMEDIATE METAL CONDUIT	PE	PNEUMATIC ELECTRIC	UH	UNDER HEATER
ANNU	ANNUNCIATOR	DWG	DRAWING	INCAND	INCANDESCENT	PF	POWER FACTOR	UL	UNDERGROUND TELEPHONE
APPROX	APPROXIMATELY	E	ELECTRICAL CATALOG	IR	INFRARED	PED	PEDAL	UTIL	UTILITY
AQ-STAR	AQUASTAT	ELEC	ELECTRICAL, ELECTRICAL	IW	INTERLOCK WITH	PH	PHASE	ULV	UNDER VOLTAGE
ARCH	ARCHITECT, ARCHITECTURAL	ELEV	ELEVATOR	J-BOX	JUNCTION BOX	PV	POST INDICATING VALVE	V	VOLT
AS	AMP SWITCH	EMS	EMERGENCY	KV	KILOVOLT	PNL	PANEL	VA	VOLT-AMPERES
AT	AMP TRIP	EMS	ENERGY MANAGEMENT SYSTEM	KVA	KILOVOLT-AMPERE	PR	POWER POLE	VDT	VIDEO DISPLAY TERMINAL
ATS	AUTOMATIC TRANSFER SWITCH	EMT	ELECTRICAL METALLIC TUBING	KVAR	KILOVOLT-AMPERE REACTIVE	PR	POTENTIAL	VERT	VERTICAL
AUTO	AUTOMATIC	EQ	ELECTRIC PNEUMATIC	KWH	KILOWATT HOUR	PRJ	PROJECTION	VFD	VARIABLE FREQUENCY DRIVE
AUX	AUXILIARY	EIP	EQUIPMENT	LOC	LOCATE OR LOCATION	PRV	POWER ROOF VENTILATOR	VOL	VOLUME
AV	AUDIO VISUAL	EW	ELECTRIC WATER COOLER	L	LIGHT	PVC	POLYVINYL CHLORIDE (CONDUIT)	W	WATT
AWG	AMERICAN WIRE GAUGE	EXIST	EXISTING	LGT	LIGHTING	PWR	POWER	WG	WIRE GUARD
BATT	BATTERY	EXP	EXPLOSION PROOF	LING	LIGHTING	QUAN	QUANTITY	WH	WATER HEATER
BD	BOARD	EXP	EXPLOSION PROOF	LV	LOW VOLTAGE	RPT	RECEPTACLE	WO	WITHOUT
BLDG	BUILDING	FA	FIRE ALARM	MAX	MAXIMUM	REC	RECEIPT	WPR	WEATHERPROOF
BMS	BUILDING MANAGEMENT SYSTEM	FAB	FIRE ALARM BOOSTER POWER SUPPLY PANEL	MAG-S	MAGNETIC STARTER	REO	REQUIRED	XFR	TRANSFER
C	CONDUIT	FACP	FIRE ALARM CONTROL PANEL	MC	MOMENTARY CONTACT	RSC	RIGID STEEL CONDUIT	XFR	TRANSFER
CAB	CABINET	FCU	FAN COIL UNIT	MC	MECHANICAL CONTRACT	RTU	ROOF TOP UNIT		
CAT	CATALOG	FIX	FIXTURE	MCC	MAIN CIRCUIT BREAKER	SC	SURFACE CONDUIT		
CAV	CABLE TELEVISION	FLO	FLOOR	MCC	MOTOR CONTROL CENTER	SEC	SECONDARY		
CB	CIRCUIT BREAKER	FLUOR	FLUORESCENT	MDC	MAIN DISTRIBUTION CENTER	SHT	SHEET		
CCTV	CLOSED CIRCUIT TELEVISION	FU	FUSE	MDF	MAIN DISTRIBUTION PANEL	SM	SIMILAR	@	ANGLE
CKT	CIRCUIT	FUDS	FUSED SAFETY DISCONNECT SWITCH	MFR	MANUFACTURER	SN	SOLID NEUTRAL	'	DELTA
CLG	CEILING			MFS	MAIN FUSED DISCONNECT SWITCH	SPEC	SPECIFICATION	'	FEET
COMB	COMBINATION	GA	GAUGE	MH	MANHOLE	SPKR	SPEAKER	'	INCHES
CMR	COMPRESSOR	GAL	GALLON	MC	MICROPHONE	SR	SPARE	#	NUMBER
CON	CONNECTION	GA	GAUGE	MN	MINIMUM	SS	SURFACE	Ø	PHASE
CONSTR	CONSTRUCTION	GALV	GALVANIZED	MISC	MISCELLANEOUS	SSW	SELECTOR SWITCH	C	CENTER LINE
CONT	CONTINUOUS OR CONTINUOUS	GEN	GENERATOR	MLO	MAIN LUGS ONLY	S/S	STOP/START PUSHBUTTONS	PL	PLATE
CONTR	CONTRACTOR	GC	GENERAL CONTRACTOR	MMS	MANUAL MOTOR STARTER	STD	STANDARD		
CONV	CONVECTOR	GFI	GROUND FAULT CIRCUIT INTERRUPTER	MSP	MANUAL MOTOR STARTER	SURF	SURFACE MOUNTED		
CP	CIRCULATING PUMP	GFP	GROUND FAULT PROTECTOR	MSBD	MAIN SWITCHBOARD	SW	SWITCH		
		GND	GROUND	MTC	EMPTY CONTAINER	SWBD	SWITCHBOARD		
				MTR	MOTOR, MOTORIZED	SYM	SYMMETRICAL		
						SYS	SYSTEM		

FIRE PROTECTION REQUIREMENTS

A. PENETRATIONS IN WALLS REQUIRING PROTECTED OPENINGS MUST BE FIRESTOPPED WITH AN APPROVED MATERIAL.


3. OUTLET BOXES ON OPPOSITE SIDES OF WALLS OR PARTITIONS MUST BE SEPARATED BY A HORIZONTAL DISTANCE OF 24 INCHES.
- B. LIGHT FIXTURES AND OTHER APPARATUS SUPPORTED BY THE ACOUSTICAL CEILING GRID MUST MEET THE REQUIREMENTS OF NEC SECTION 410.16, MEANS OF SUPPORT.

- | | | |
|---|-------------|---|
| ⊙ | ANGLE | ∠ |
| ' | AT | |
| * | DELTA | Δ |
| # | FEET | |
| Ø | INCHES | |
| C | NUMBER | |
| P | PHASE | |
| | CENTER LINE | — |
| | PLATE | L |

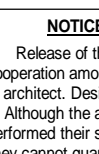
A. ALL RECEPTACLES SHALL BE TAMPER RESISTANT TYPE RECEPTACLES
B. FIRE ALARM SYSTEM TO BE DESIGN-BUILD BY THE ELECTRICAL CONTRACTOR.
C. THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXISTING ELECTRICAL DEVICES AS REQUIRED FOR REMODELING. NO ATTEMPT HAS BEEN MADE TO VERIFY ELECTRICAL DEVICES THAT HAVE TO BE REMOVED. ELECTRICAL CONTRACTOR TO FIELD VERIFY ALL EXISTING CONDITIONS/ELECTRICAL ITEMS TO BE REMOVED.

Sheet Number	Sheet Name
E-0.00	ABBREVIATIONS, SYMBOLS & NOTES
E-2.01	ELECTRICAL LIGHTING PLAN
E-3.01	ELECTRICAL POWER PLAN
E-4.01	ELECTRICAL SCHEDULES & DETAILS
E-4.02	ELECTRICAL 1-LINE DIAGRAM
E-5.01	ELECTRICAL SPECIFICATIONS

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USA
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Eric Smith Associates, P.C.

No.	Description	Date
1	REVISIONS	

YVMC MOUNTAIN CLINIC
2305 MOUNTER WERNER CIRCLE
SUITE P.0217
STEAMBOAT SPRINGS, CO

ESF

ERIC SMITH ASSOCIATES, P.C.
1919 SEVENTH STREET
BOULDER, COLORADO, 80302
(303) 442-5458, (303) 442-4745 FAX

Job Number:	60531
Date:	JUNE 17, 2022
Drawn By:	DAE
Checked By:	DAE

Project Phase
CONSTRUCTION DOCUMENTS
Sheet Title
ABBREVIATIONS, SYMBOLS & NOTES
Sheet Number
E-0.00



ELECTRICAL KEYED NOTES

-  **COMcheck Software Version 4.1.5.3**
Interior Lighting Compliance Certificate

Project Information

Energy Code:	2012 IECC
Project Title:	YVMC Mountain Clinic
Project Type:	New Construction

Construction Site: 2305 Mounter Werner Circle, Ste P.0217 Steamboat Springs, CO	Owner/Agent:	Designer/Contractor:
--	--------------	----------------------

Additional Efficiency Package(s)

Credits: 1.0 Required 0.0 Proposed

Allowed Interior Lighting Power

A Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts (B X C)
1-Exam/Office (Health care clinic)	1225	100	1225
		Total Allowed Watts =	1225

Proposed Interior Lighting Power

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
<u>1.Farm Office (Health care clinic)</u>				
LED 1: LED Linear 33W:	1	10	44	440
LED 2: LED Linear 33W:	1	9	31	278
LED 3: LED PAR 11W:	1	5	11	55
Total Proposed Watts =				774

Interior Lighting PASSES: Design 37% better than code

Interior Lighting Compliance Statement

Compliance Statement: The proposed interior lighting design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.1.5.3 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Name - Title

Signature

Date



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uhealth

YVMC MOUNTAIN CLINIC
2305 MOUNT WERNER CIRCLE
SUITE P.0217
STEAMBOAT SPRINGS, CO



Job Number:	60531
Date:	JUNE 17, 202
Drawn By:	DAE
Checked By:	DAE

Project Phase
CONSTRUCTION DOCUMENTS

Sheet Title
ELECTRICAL LIGHTING PLAN

Sheet Number

E-2.01

1. PROVIDE 4'X4'X3/4" PLYWOOD ON BACK WALL AT CEILING
2. CIRCUIT WITH LIGHTS. CIRCUIT TO LINE VOLTAGE THERMOSTAT PROVIDED BY MECHANICAL. COORDINATE WITH MECHANICAL FOR LOCATION.
3. CIRCUIT TRANSFORMER TO MSB LOCATED IN ELECTRICAL ROOM. TRANSFORMER TO BE MOUNTED FROM CEILING STRUCTURE IN CEILING CAVITY ABOVE RM 109. PROVIDE ACCESS.
4. INSTALL ABOVE CEILING AT DOOR FOR DOOR CONTROLLER. COORDINATE WITH DOOR AND ACCESS CONTRACTORS FOR SPECIFIC REQUIREMENTS.

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YVMC MOUNTAIN CLINIC
2305 MOUNTER WERNER CIRCLE
SUITE P.0217
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Job Number:	60531
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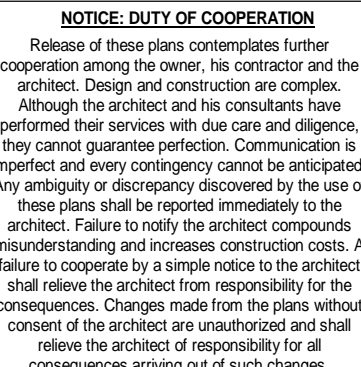
Project Phase
CONSTRUCTION DOCUMENTS

Sheet Title
ELECTRICAL POWER PLAN

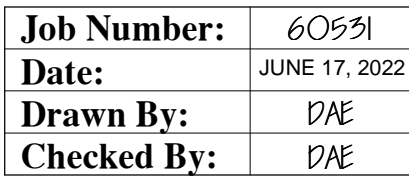
Sheet Number
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E-3.01



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YVMC MOUNTAIN CLINIC
2305 MOUNTER WERNER CIRCLE
SUITE P.0217
STEAMBOAT SPRINGS, CO



Sheet Title
ELECTRICAL SCHEDULES & DETAILS

Sheet Number
E-4.01

Branch Panel: L

Location: HALL 114

Supply From: T1

Mounting: Recessed

Enclosure: Type 1

Volts: 120/208 Wye

Phases: 3

Wires: 4

A.I.C. Rating: 10KAIC

Mains Type: MCB

Mains Rating: 100 A

MCB Rating: 100 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
1	ME-Lighting LAB 102	20 A	1	451 VA	431 VA					1	20 A	ME-Lighting HALL 114	2
3	Receptacle EXAM-1 113	20 A	1			360 VA	720 VA			1	20 A	Receptacle EXAM-1 113	4
5	Receptacle TREATMENT 112	20 A	1					180 VA	180 VA	1	20 A	Receptacle TREATMENT 112	6
7	Receptacle TREATMENT 112	20 A	1	180 VA	720 VA					1	20 A	Receptacle TREATMENT 112	8
9	Receptacle BREAK 108	20 A	1			360 VA	180 VA			1	20 A	Receptacle LAB 102	10
11	Receptacle LAB 102	20 A	1					360 VA	900 VA	1	20 A	Receptacle RECEPTION 101	12
13	Receptacle TOILET 104	20 A	1	180 VA	180 VA					1	20 A	Receptacle BREAK 108	14
15	Receptacle BREAK 108	20 A	1			360 VA	180 VA			1	20 A	Receptacle HALL 114	16
17	Receptacle M.A. 107	20 A	1					540 VA	720 VA	1	20 A	Receptacle M.A. 107	18
19	Receptacle EXAM-2 111	20 A	1	360 VA	360 VA					1	20 A	Receptacle BREAK 108	20
21	Receptacle OFFICE 110	20 A	1			540 VA	180 VA			1	20 A	Receptacle I.D.F. 106	22
23	Receptacle IDF 106	20 A	1					360 VA	180 VA	1	20 A	Receptacle I.D.F. 106	24
25	Receptacle Ceiling WAITING 100	20 A	1	240 VA	360 VA					1	20 A	Receptacle EXAM-2 111	26
27	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	28
29	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	30
31	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	32
33	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	34
35	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	36
37	Spare	20 A	1	0 VA	0 VA					1	20 A	Spare	38
39	Spare	20 A	1			0 VA	0 VA			1	20 A	Spare	40
41	Spare	20 A	1					0 VA	0 VA	1	20 A	Spare	42
Total Load:				3437 VA		2880 VA		3420 VA					
Total Amps:				29 A		24 A		29 A					

Legend:

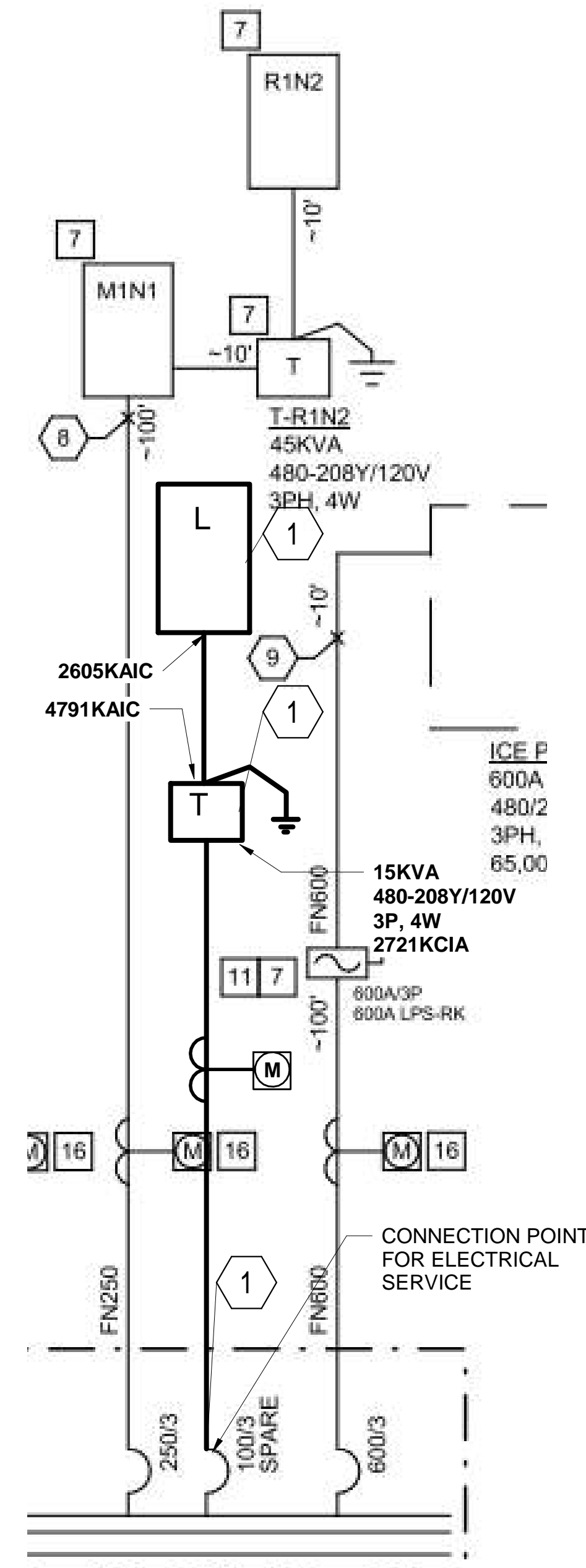
Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals
Other	0 VA	0.00%	0 VA	
Receptacle	8857 VA	100.00%	8857 VA	Total Conn. Load: 9734 VA
Lighting	61 VA	100.00%	61 VA	Total Est. Demand: 9938 VA
MTR	120 VA	125.00%	150 VA	Total Conn.: 27 A
ME-Lighting	719 VA	125.00%	899 VA	Total Est. Demand: 28 A

Notes:





1. CONTRACTOR TO PROVIDE 45A/3P BREAKER IN MSB IN OPEN SPACE OR REPLACE EXISTING 100A BREAKER. CIRCUIT TO T1 WITH 1"CU,(4) #6THHN CU + #10 CU GND. PROVIDE E-GAUGE PRO SERIES METERING FOR PANEL FEEDER. METERING POINT CAN SHARE A COMMON METER PROVIDED ALL LOAD IS MONITORED ON EACH PANEL. CIRCUIT TRANSFORMER "T" TO PANEL "L" WITH 1 1/2"CU,(4)#3 THHN CU + #8 CU GND



YVMC MOUNTAIN CLINIC
2305 MOUNTER WERNER CIRCLE
SUITE P.0217
STEAMBOAT SPRINGS, CO

ESF

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Job Number:	60531
Date:	JUNE 17, 202
Drawn By:	Author
Checked By:	Checker

Project Phase
CONSTRUCTION DOCUMENTS

Sheet Title
ELECTRICAL I-LINE DIAGRAM

Sheet Number

E-4.02

2 EXISTING 1-LINE DIAGRAM AS-BUILT
E-4.02 $3/16" = 1'-0"$

1 EXISTING 1-LINE DIAGRAM AS-BUILT Copy 1
E-4.02 1/4" = 1'-0"

A circular professional engineer seal for the State of Colorado. The outer ring contains the text "COLORADO LICENSED" at the top and "PROFESSIONAL ENGINEER" at the bottom. Inside the ring, the name "DAVID A. ECH" is partially visible at the top, the license number "55707" is in the center, and the expiration date "JUNE 17, 2022" is at the bottom. A handwritten signature, "David A. Echeverria", is written across the bottom of the seal.

