

# Sparks Maintenance Administration Toilet Room Renovation

215 S 21st Street  
Sparks, Nevada 89431

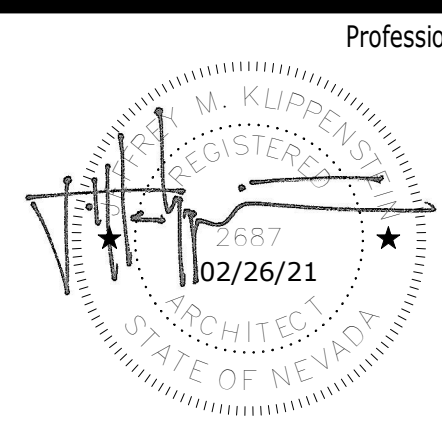
City of Sparks  
431 Prater Way  
Sparks, Nevada 89432

February 26, 2021

Building Permit/Construction Documents

BIN 3607/2022 Sparks Maintenance Admin Toilet Room Reno/2022 Sparks Maintenance Toilet Room Addition AR.rvt

3/5/2021 11:34:47 AM



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**Sparks Maintenance Administration  
Toilet Room Renovation**

215 S 21st Street  
Sparks, Nevada 89431

Title Sheet

February 26, 2021  
H+K Project No: 2022

**G100**



BDN 3667/2022 Sparks Maintenance Admin Toilet Room Reno/2022 Sparks Maintenance Toilet Room Addition AR.nc 3/5/2021 11:30:01 AM

### Abbreviations

& @ (#) #	And Existing Perpendicular Pound or Number	<b>E</b> Ea. Etc. E.W.C. Elec. Elev. Emer. Encl. Eq. Equip. Exh. Exp. E.J. Ext.	Each Etcetera Electric Water Cooler Electrical Elevation Emergency Enclosure Equal Equipment Exhaust Expansion Expansion Joint Exterior	<b>J</b> Jt. Joint		<b>S</b> Sched. Sect. Sht. Sim. S.C. Spec. Sq. SF St. Stl. Std. Stl. Stl. Stg. Struct. Susp. Sym.	Schedule Section Sheet Similar Solid Core Specification Square Square foot Stainless Steel Standard Steel Storage Structural Suspended Symmetrical
<b>A</b> Adj. Aggr. Alt. Alum. Approx. Arch. A.C.	Adjustable Aggregate Alternate Aluminum Approximately Architectural/Architect Asphalt Concrete	<b>F</b> F.O. Fin. F.C. F.E. F.E.C. Fpr. Fit. Flash. Fl. F.D. F.L. Fl. Ftg. Fdn. FBO Furr. Fut.	Face of Finish Finish Grade Fire Extinguisher Fire Extinguisher Cabinet Fireproofing Fixture Flashing Floor Floor Drain Flow Line Foot Footing Foundation Furnished by Others Furring Future	<b>L</b> Lab Lav. Lt. Laboratory Lavatory Light		<b>T</b> Tel. T.V. T.&G. T.C. T.O.	Telephone Television Tongue and Groove Top of Curb (or Concrete) Top of
<b>B</b> Bm. Blk. Blkg. Bd. B.O. Bldg. B.U.R.	Beam Block Blocking Bottom Bottom of Building Built up Roofing	<b>G</b> Galv. G.I. Gal. Gen. Gl. GLB Gyp.	Galvanized Galvanized Iron General Glass Glue-Laminated Beam Gypsum	<b>M</b> Mfr. M.O. Max. Mech. Membr. Met. Min. Misc. MPH Mid.	Manufacturer Masonry Opening Maximum Mechanical Membrane Metal Minimum Miscellaneous Miles per hour Mounted	<b>U</b> U.N.O.	Unless Noted Otherwise
<b>C</b> C.I. C.B. Clg. Clr. C.L. Cer. C.O. C.W. Col. Conc. Conn. Const. C.J. Contin. Contr. Cu. Ft.	Cast Iron Catch Basin Ceiling Center Center Line Ceramic Cleanout Cold Water Column Concrete Connection Construction Construction Joint Continuous Contractor Cubic Foot	<b>H</b> Ht. H.C. H.M. Horiz. H.B. H.W. Hr.	Height Hollow Core Hollow Metal Horizontal Hose Bibb Hot Water Hour	<b>N</b> Nom. N.I.C. N.T.S. No.	Nominal Not in Contract Not to Scale Number	<b>V</b> Vert. V.C.T.	Vertical Vinyl Composition Tile
<b>D</b> D.G. Dept. Det. Dia. Diff. Dim. Dbl. DN D.S. Dwg. D.F.	Decomposed Granite Department Detail Diameter Diffuser Dimension Double Down Downspout Drawing Drinking Fountain	<b>I</b> In. I.D. Insul. Int.	Inch(es) Inside Diameter Insulation Interior	<b>O</b> O.C. O.D. O.H.	On Center Outside Diameter Opposite Hand	<b>W</b> W.C. Wt. W.F. Wdw. W/ W/O Wd. W.J.	Water Closet Weight Wide Flange Window With Without Wood Weakened Plane Joint
<b>P</b> Pr. P. Lam. Pl. Plywd. Pt. Prfab. Prop. PSF PSI	Pair Plastic Laminate Plate Plywood Point Prefabricated Property Pounds per square foot Pounds per square inch	<b>R</b> Rad. Ref. Reinf. Req. R.A. Rev. R.O.W. R.D. Rm. R.O.	Radius Reference Reinforced Required Return Air Revision Right of Way Roof Drain Room Rough Opening	<b>Y</b> Yd.	Yard		

### General Notes

- These general notes pertain to work described on all contract documents.
- The contract documents consist of the owner-contractor agreement, the conditions of the contract (general, supplementary and other conditions), the drawings, the specifications, and all addenda issued prior to and all modifications issued after execution of the contract.
- The work comprises the completed construction required by the contract documents and includes all labor necessary to produce such construction, and all materials and equipment incorporated or to be incorporated in such construction.
- Shop drawings, product data and samples are not a part of the contract documents. The Architect will review them, but only for conformance with the design concept of the work and with the information given in the contract documents. The Contractor shall not be relieved of responsibility for any deviation from the requirements of the contract documents by the Architect's review of shop drawings, product data or samples.
- The Contractor shall carefully study and compare the contract documents and shall at once report to the Architect any error, inconsistency or omission he may discover. The Contractor shall perform no portion of the work at any time without contract documents or, where required, approved shop drawings, product data or samples for such portion of the work.
- All work is to conform with the contract documents. Drawings are NOT to be scaled for information. If unable to locate dimensions for any item of work, consult with the Architect before proceeding with construction.
- In the event certain features of the construction are not fully shown on the contract documents, then their construction shall be of the same character as for similar conditions that are shown or called for and shall be reviewed by the Architect.
- All work shall be performed within strict conformance to the minimum standards of the current edition of the adopted building codes of the authority having jurisdiction and all applicable national, state, and local laws, regulations, and ordinances.
- The Contractor shall be responsible for the general safety during construction, and all work shall conform to pertinent safety regulations.
- The Contractor shall coordinate locations of any and all mechanical, telephone, electrical, lighting and plumbing including all piping, ductwork and conduit. Coordinate all required clearances for installation and maintenance of the above equipment.
- The Contractor shall supervise and direct the work, using his best skill and attention. He shall be solely responsible for all construction means, methods, techniques, sequences and procedures and for coordinating all portions of the work under the contract.
- The Contractor shall be responsible for the acts and omissions of his employees, subcontractors, and their agents and employees, and other persons performing any work under a contract with the Contractor.
- The Contractor shall pursue work in a continuous and diligent manner to ensure a timely completion of the project.
- The Contractor at all times shall keep the premises free from accumulation of waste materials or rubbish caused by his operations. At the completion of the work he shall remove all his waste materials and rubbish from and about the project as well as all his tools, construction equipment, machinery, and surplus materials.
- The Contractor shall be responsible for the location and/or protection of all existing and proposed piping, utilities, structures, adjacent streets and improvements during the period of construction.
- Unless otherwise provided in the contract documents, the Contractor shall provide and pay for all labor, materials, equipment, tools, construction equipment and machinery, water, heat, utilities, transportation, and other facilities and services necessary for the proper execution and completion of the work.
- Where conflicts occur, coordinate the layout and exact location of all partitions, doors, telephones, and electrical/communication outlets and switches with Architect in the field before proceeding with construction.
- Where conflict is encountered between the contract documents that will materially affect the quality or extent of the work, such conflict shall be resolved to the satisfaction of the Architect before the affected items and/or material are purchased, fabricated and/or installed.
- Where pre-manufactured or prefabricated items and/or materials are to be installed - the Contractor shall verify rough or finished dimensions in the field prior to purchase or fabrication.
- The Contractor shall guarantee all work and materials to be free from defects for a minimum of one year from date of final acceptance, and promptly remedy such defects and any subsequent damage caused by the defects or repair thereof, at no expense to the owner. Guarantee periods of greater than one year may be required and contained within the contract documents.
- Where any item and/or material is indicated in the contract documents, and not necessarily detailed in each specific case, but is required for a complete and professional installation - such item and/or material shall be provided as if shown and detailed in full. Provide means to furnish and install.
- Contractor is requested to visit the site as part of the pre-bid site visit to compare the drawings and specifications with any work in place, and inform himself of all conditions, including the work, if any, being performed. Failure to visit the site will in no way relieve the Contractor from necessity of furnishing any materials or performing any work in accordance with the drawings and specifications that may be required to complete the work without additional cost to the owner.
- Existing conditions including material sizes, configurations, and locations as shown on the drawings may not be an exact illustration of existing as-built conditions. The Contractor shall include in his bid the cost of furnishing, installing, modifying, existing and/or new materials (minor in nature) required for a complete and professional installation that may be required by minor variations between existing conditions as shown, and actual as-built conditions.

### Project Team

**Owner:**  
City of Sparks  
PO Box 857  
Sparks, Nevada 89432  
(775) 353-1528  
Contact: Brandon Miles

**Electrical Engineer:**  
PK Electrical, Inc.  
681 Sierra Rose Dr Suite B  
Reno, Nevada 89511  
826-9010  
Contact: Matthew Stuart

**Architect:**  
H+K Architects  
5485 Reno Corporate Drive, Suite 100  
Reno, Nevada 89511  
(775) 332-6640  
(775) 332-6642 (Fax)  
Contact: Alexander Villa

### Mechanical Engineer:

Ainsworth Associates Mechanical Engineers  
1420 Holcomb Avenue, Suite 201  
Reno, Nevada 89502  
329-9100  
Contact: Cruz Kenver

### Sheet Index

General	Title Sheet
G100	Project Data
G301	Accessibility Diagrams
G401	Typical Metal Stud Framing Details
Architectural	Site/Floor Plan
A100	Ceiling and Floor Plans
A101	Specifications
A102	Interior Restroom Elevations, Details and Accessories Schedule
A701	
Mechanical	Mechanical Legends, Schedules, and Notes
M001	Specifications
M101	Mechanical Overall Plan
M102	Mechanical Enlarged Floor Plans
Plumbing	Plumbing Legends, Schedules, and Notes
P001	Specifications
P101	Plumbing Overall Plan
P102	Plumbing Enlarged Floor Plans
Electrical	Electrical Legend and Drawing Schedule
E001	Electrical Specifications
E002	Lighting Plans
E301	Power Plans

### Design Criteria

Applicable Codes:  
 Building Code: 2018 International Building Codes (IBC)  
 Mechanical Code: 2018 Uniform Mechanical Code (UMC)  
 Plumbing Code: 2018 Uniform Plumbing Code (UPC)  
 Electrical Code: 2017 National Electrical Code (NEC)  
 Fire Code: 2018 International Fire Code, Vol. 1 (IFC)

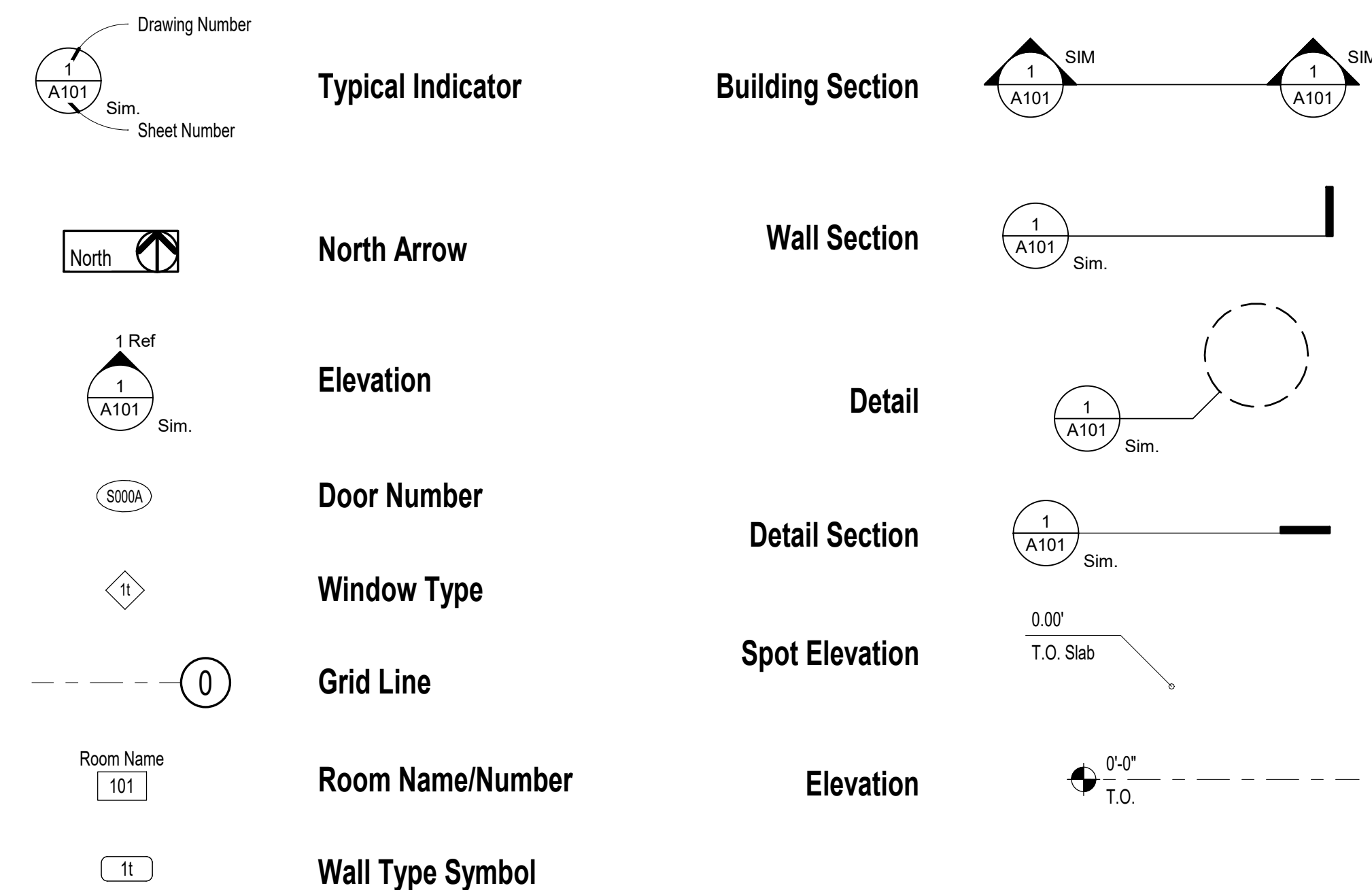
Regulations  
 Accessibility Codes: 2010 Americans with Disabilities Act, Accessibility Guidelines and 2009 ICC/ANSI 117.1  
 Energy Code: 2018 International Energy Conservation Code

Floor Area:  
 First Floor: 5,763 SF  
 Total: 5,763 SF

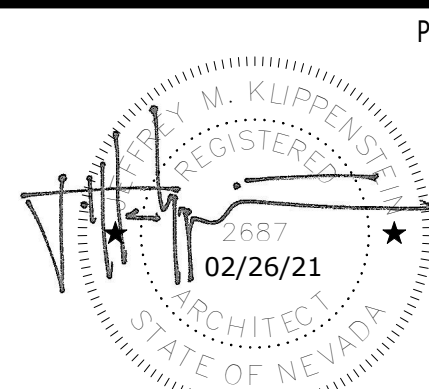
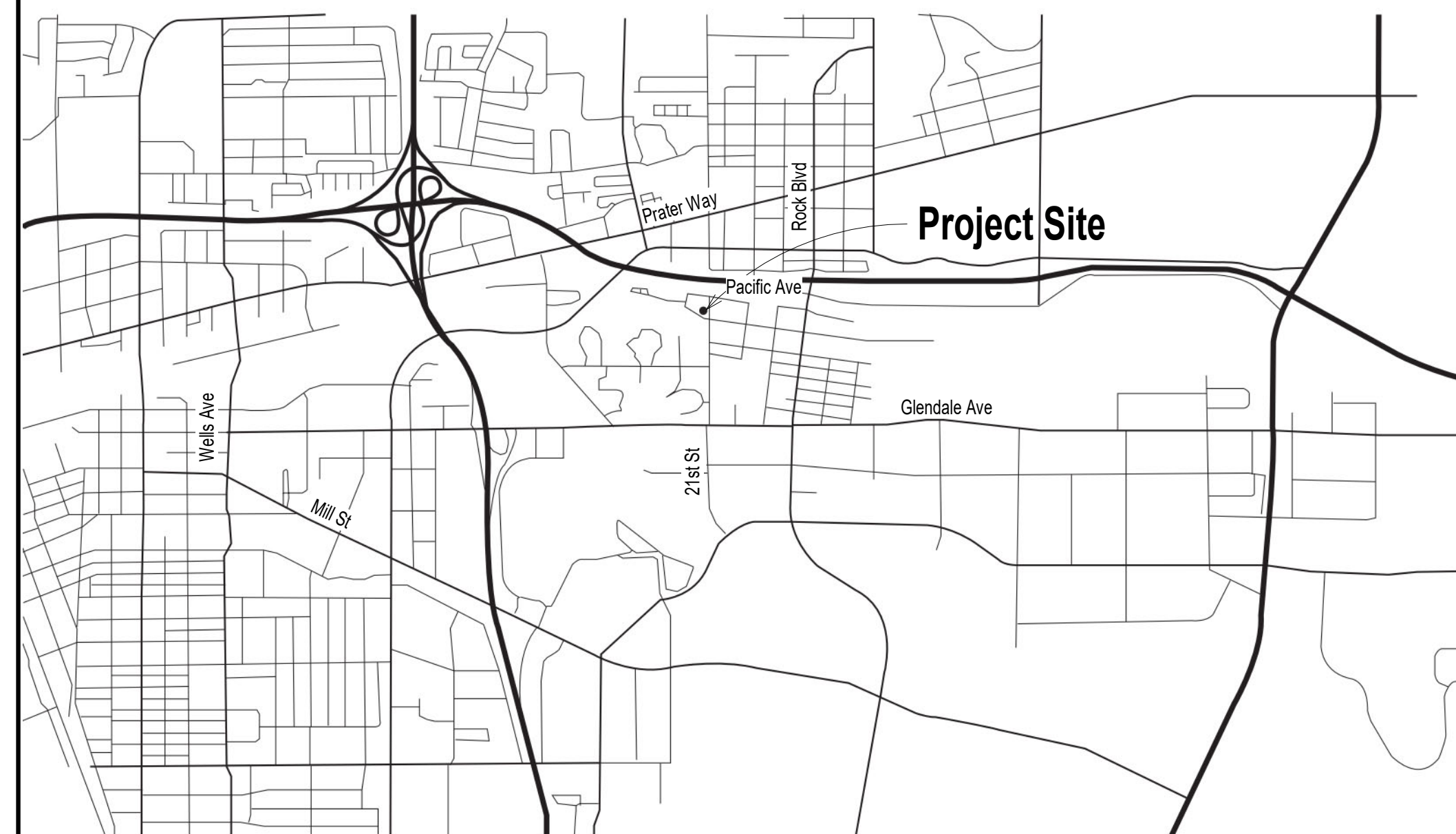
Occupancy Group: B

Type of Construction: Type V-A

### Symbols



### Vicinity Map



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## Sparks Maintenance Administration Toilet Room Renovation

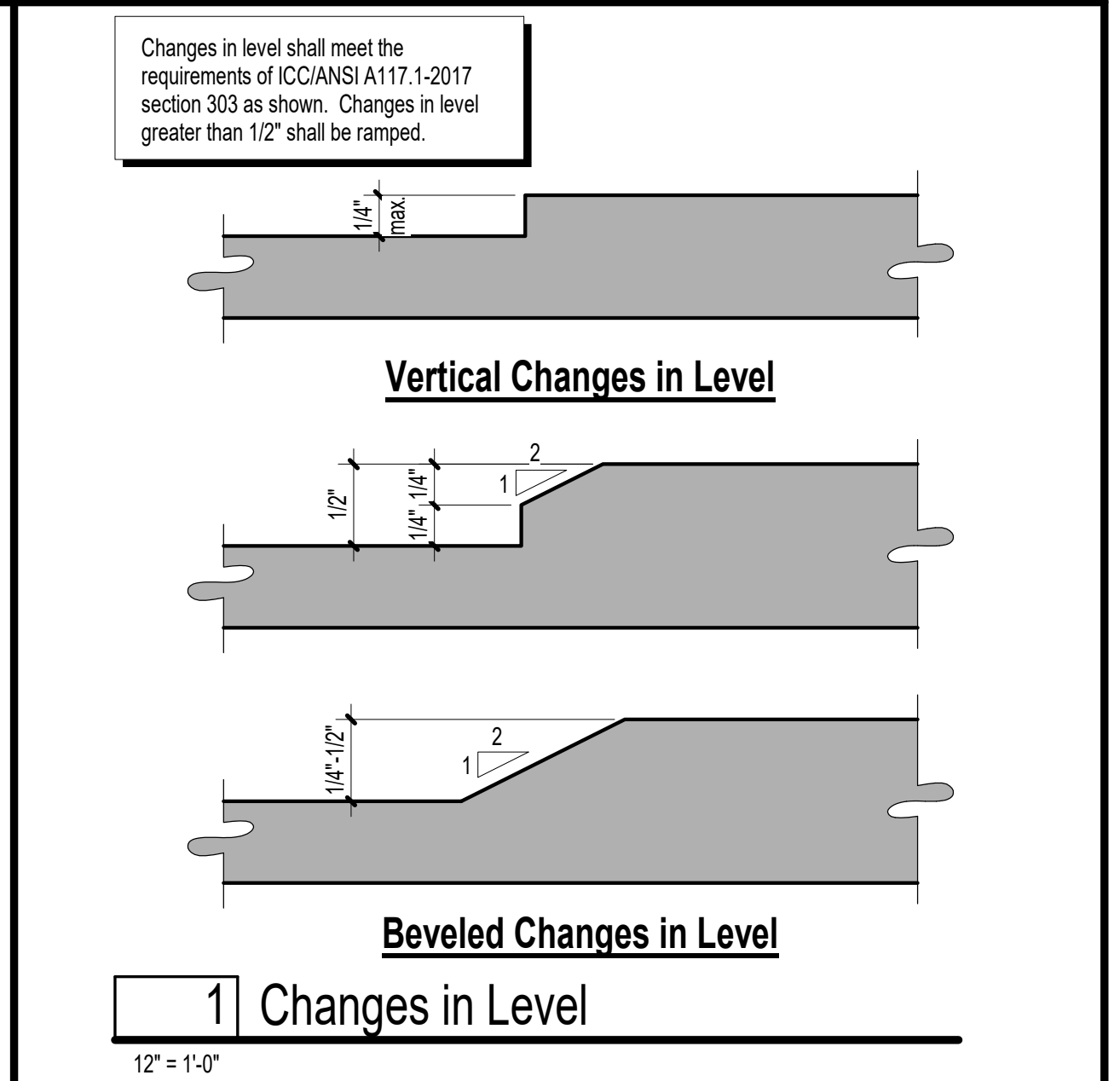
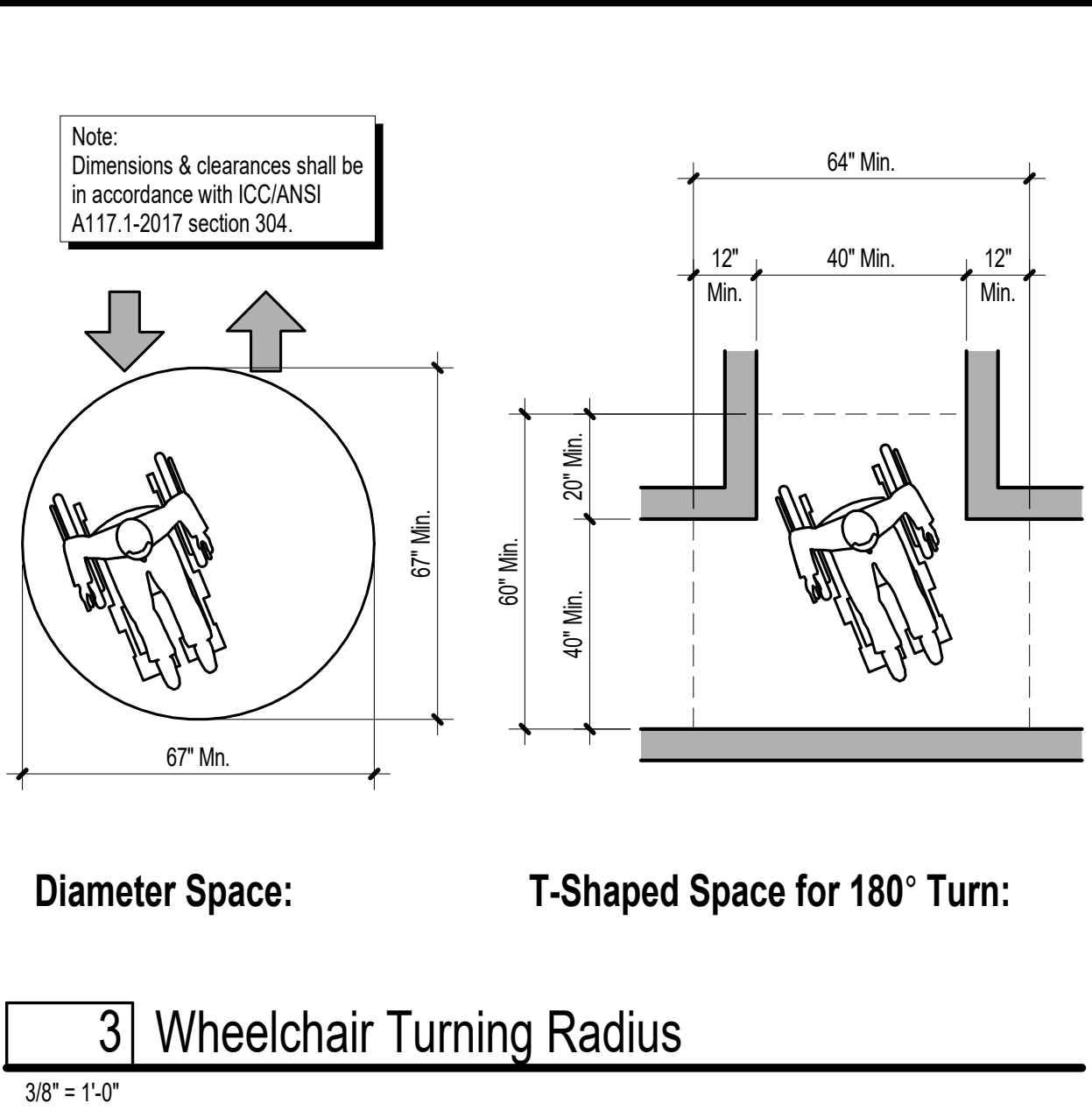
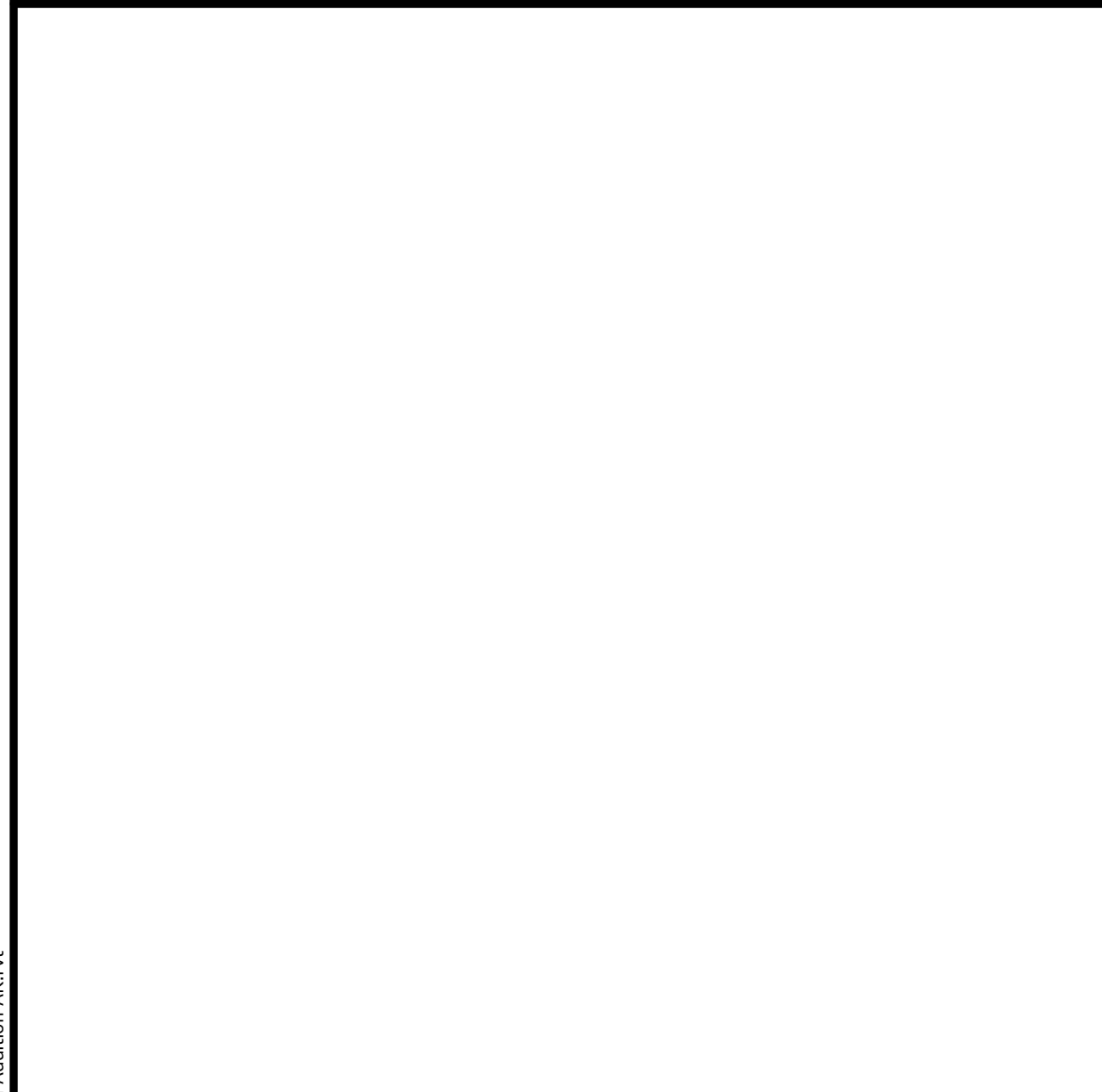
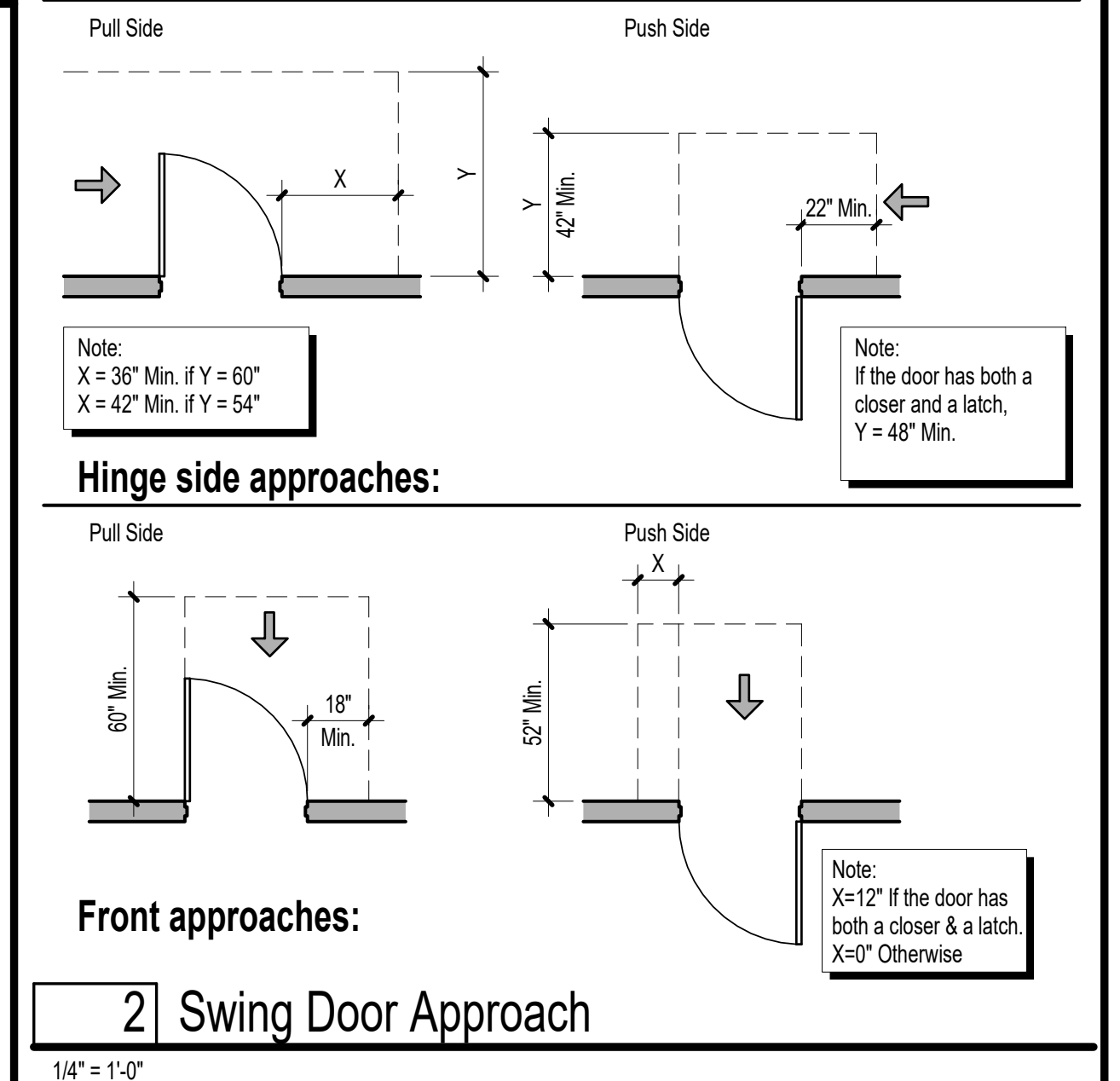
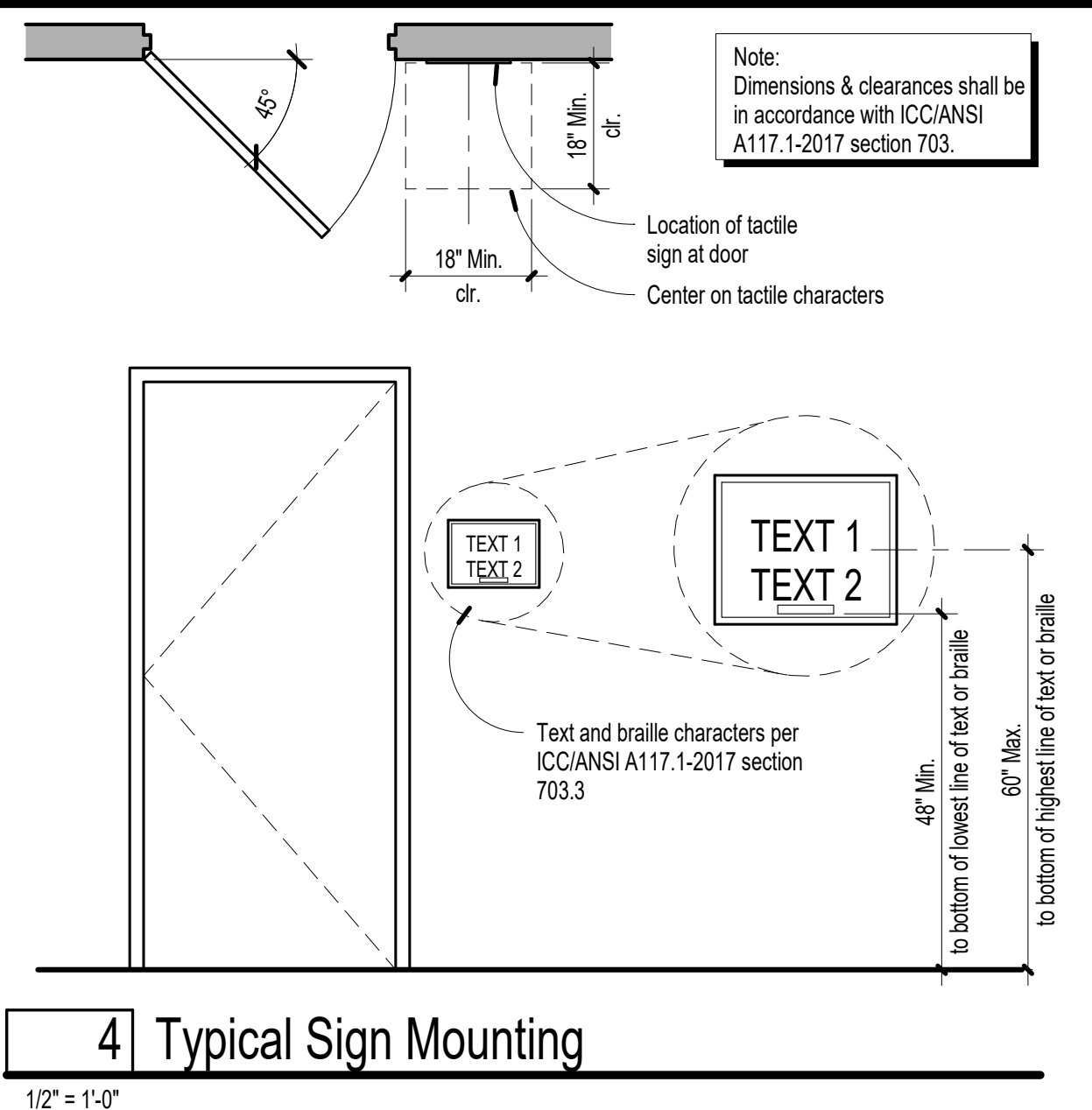
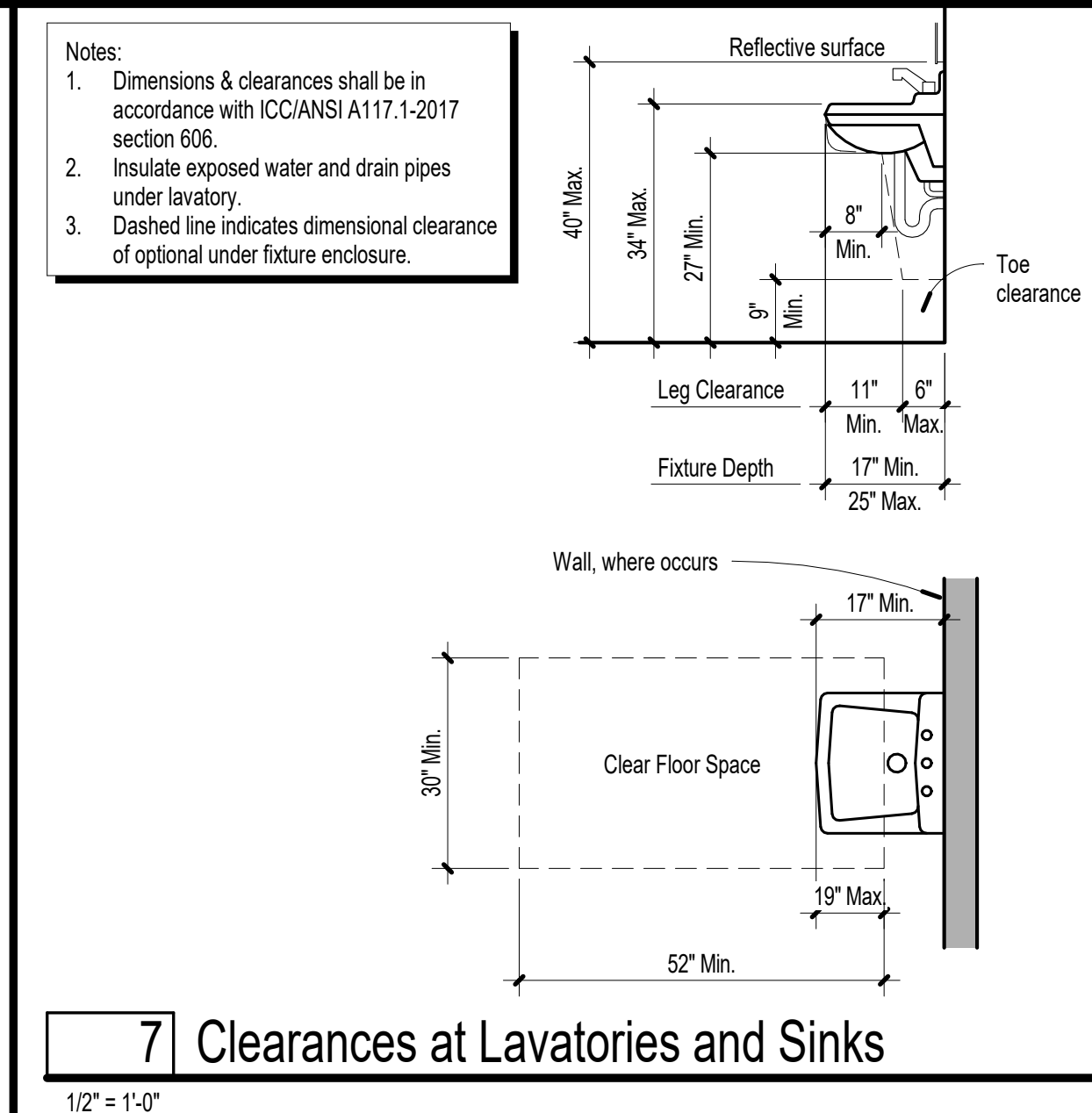
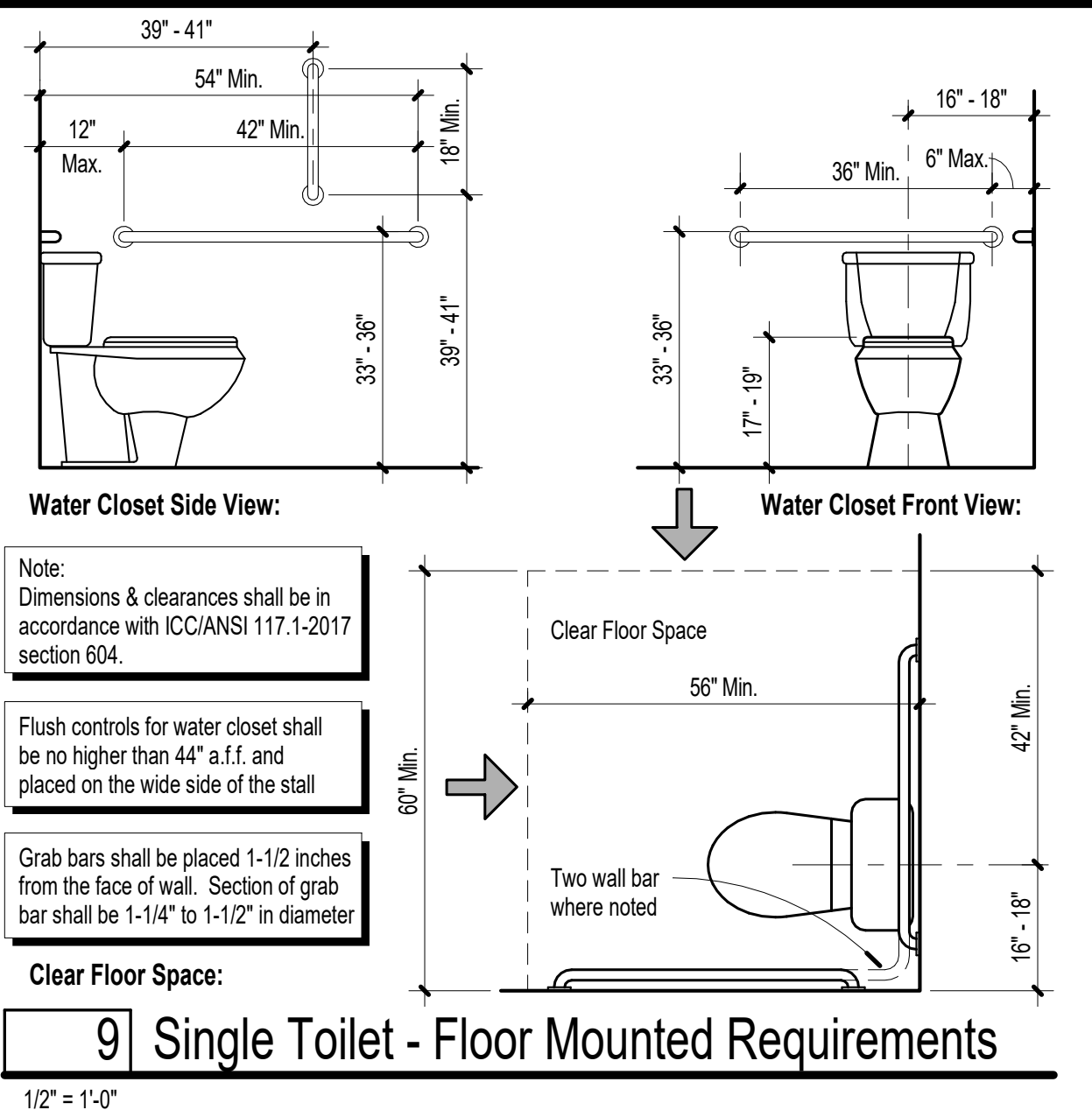
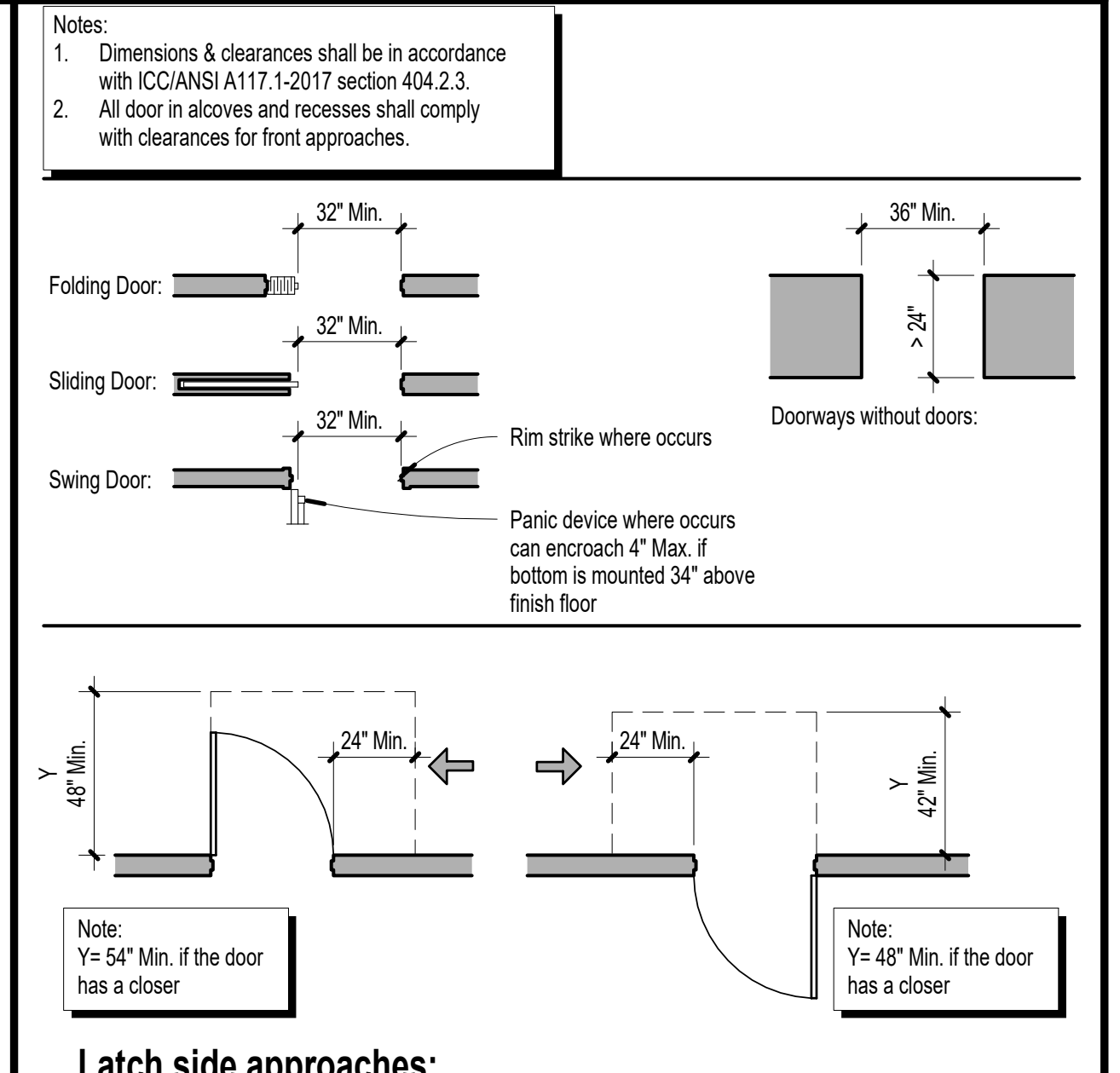
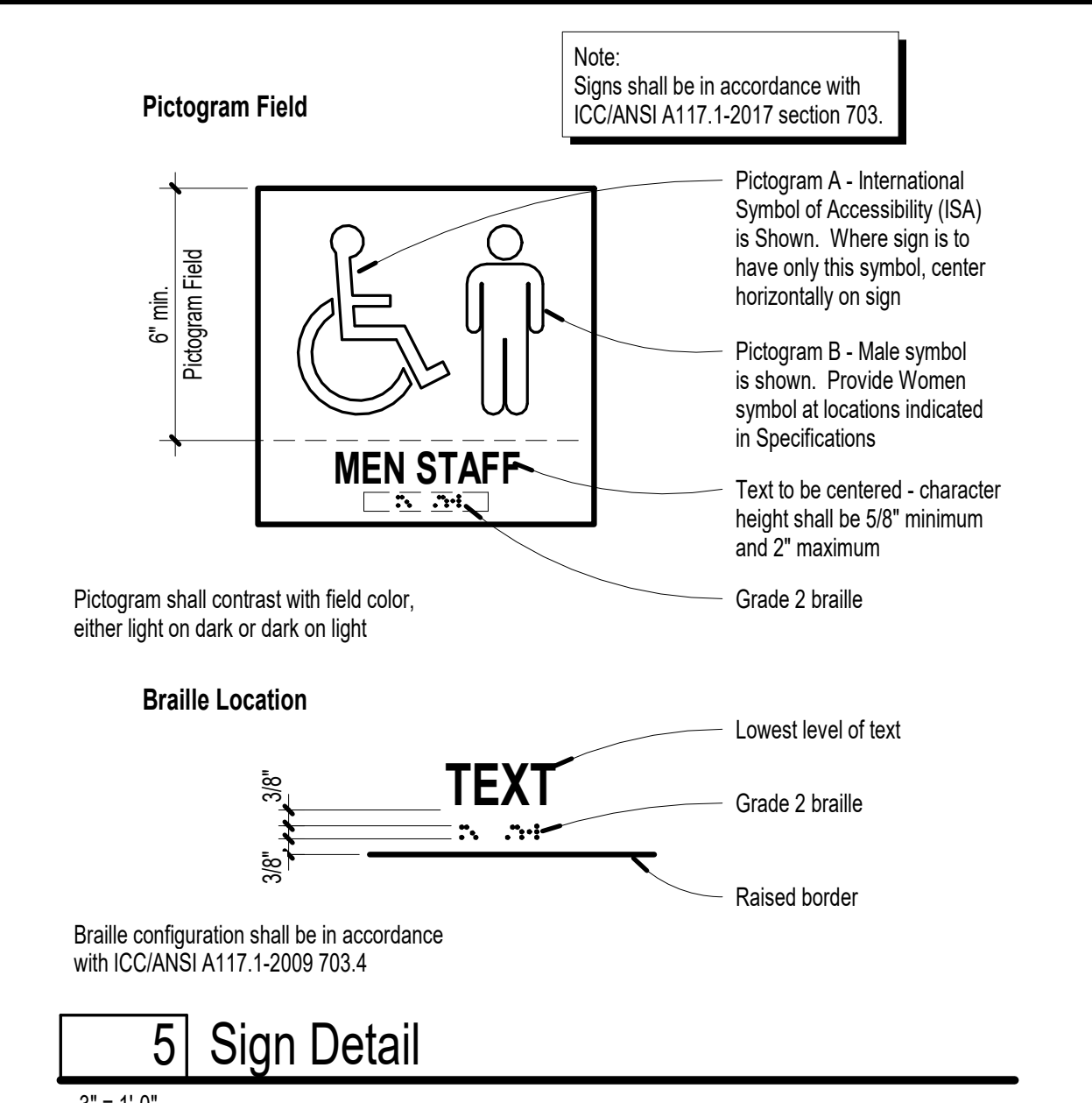
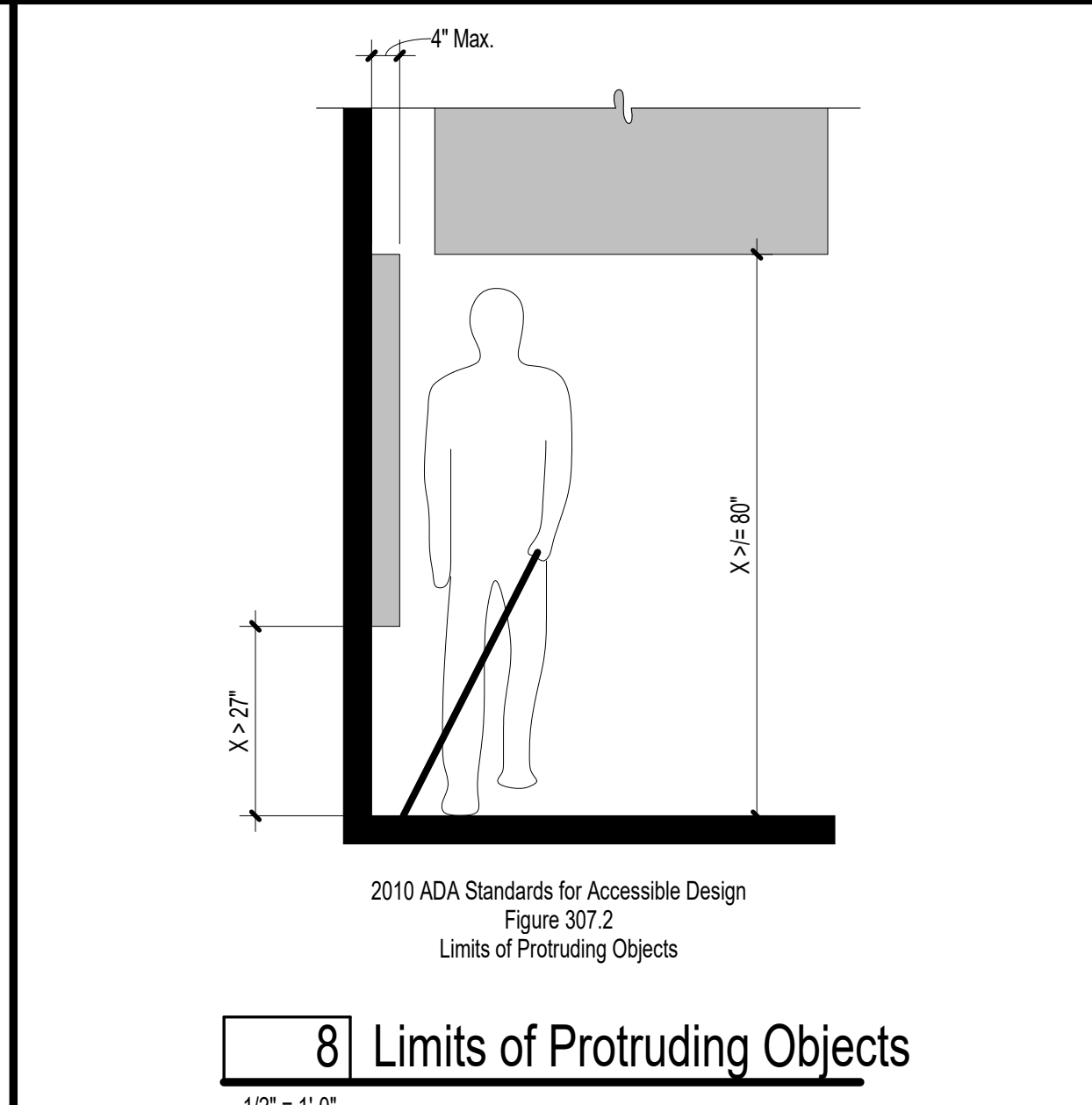
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Project Data

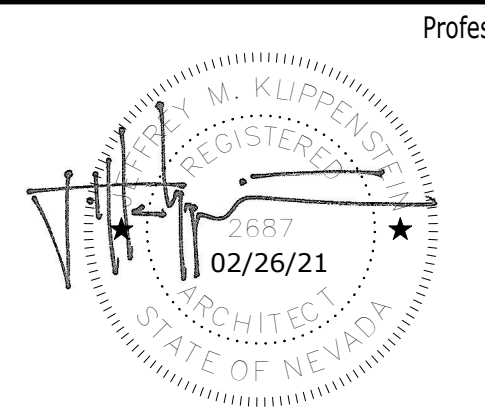
February 26, 2021  
H+K Project No: 2022

**G101**





BDW 3/6/2022 Sparks Maintenance Admin Toilet Room Reno/2022 Sparks Maintenance Toilet Room Addition ALR.vct



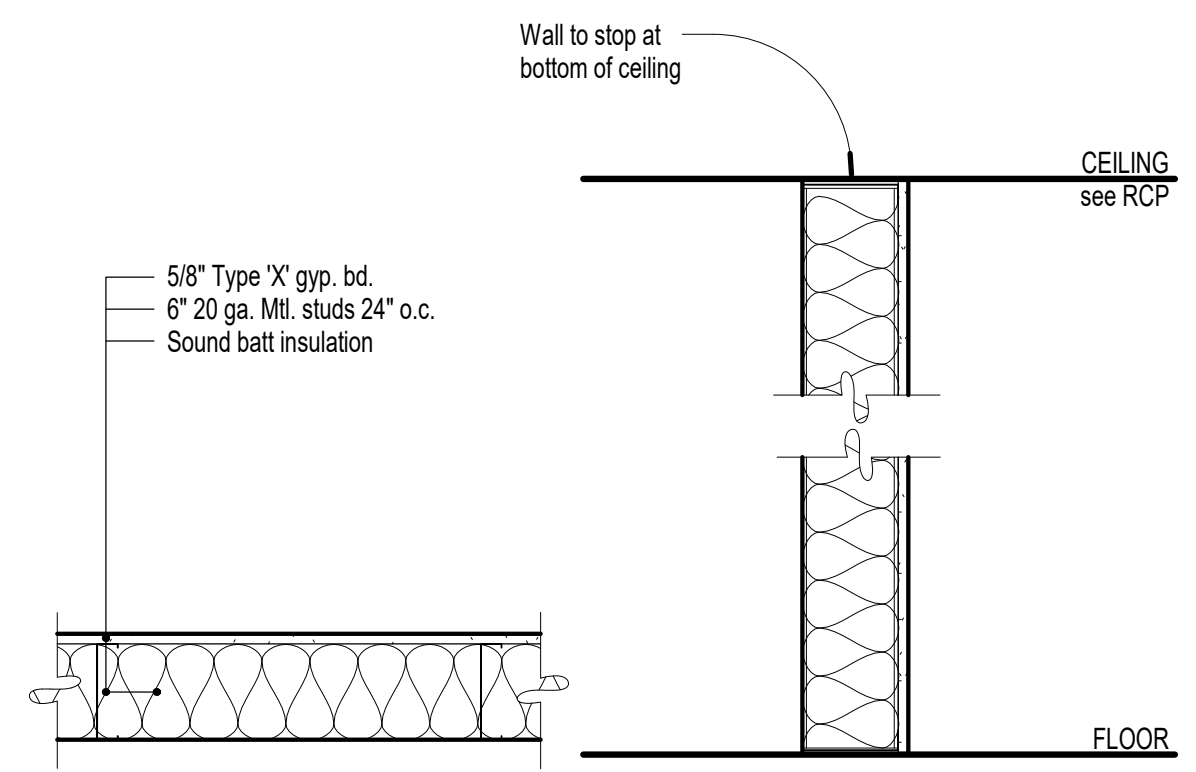
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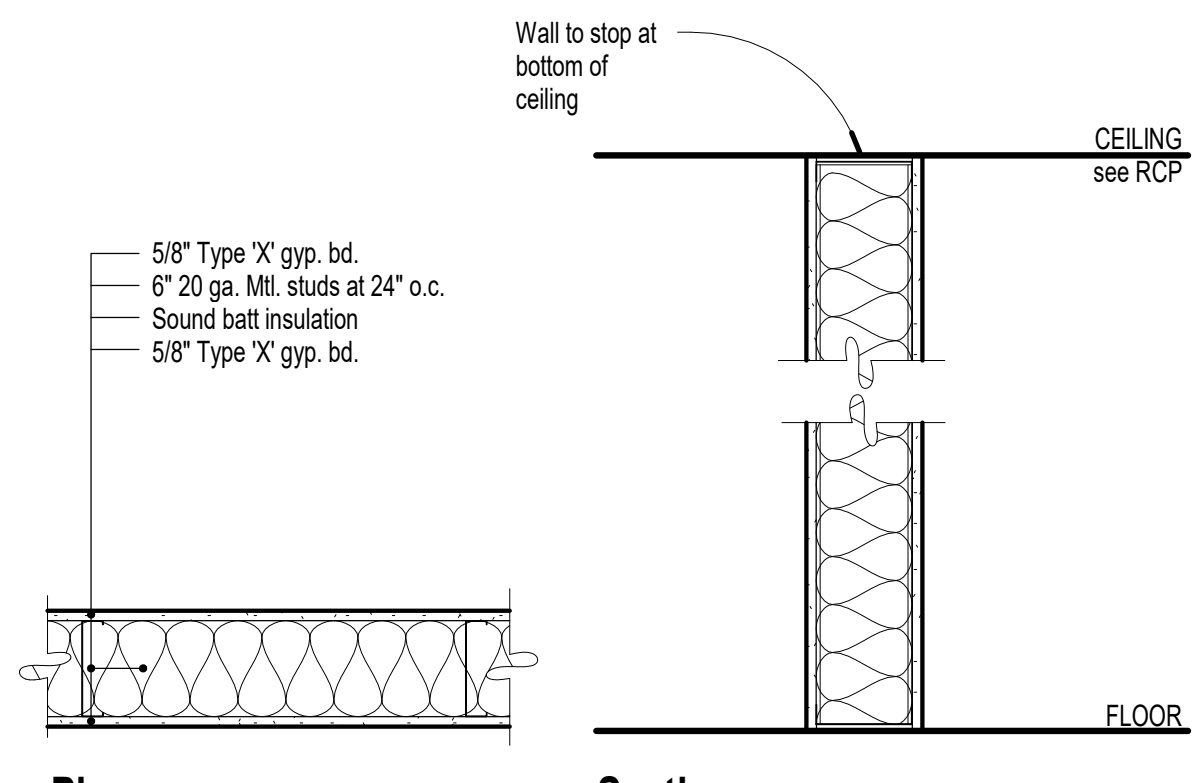
Accessibility Diagrams  
February 26, 2021  
H+K Project No: 2022  
**G301**

Notes:  
 • Fire Rating: Non-rated  
 • Top of wall: 16/A701  
 • Bottom of wall: 2/G401



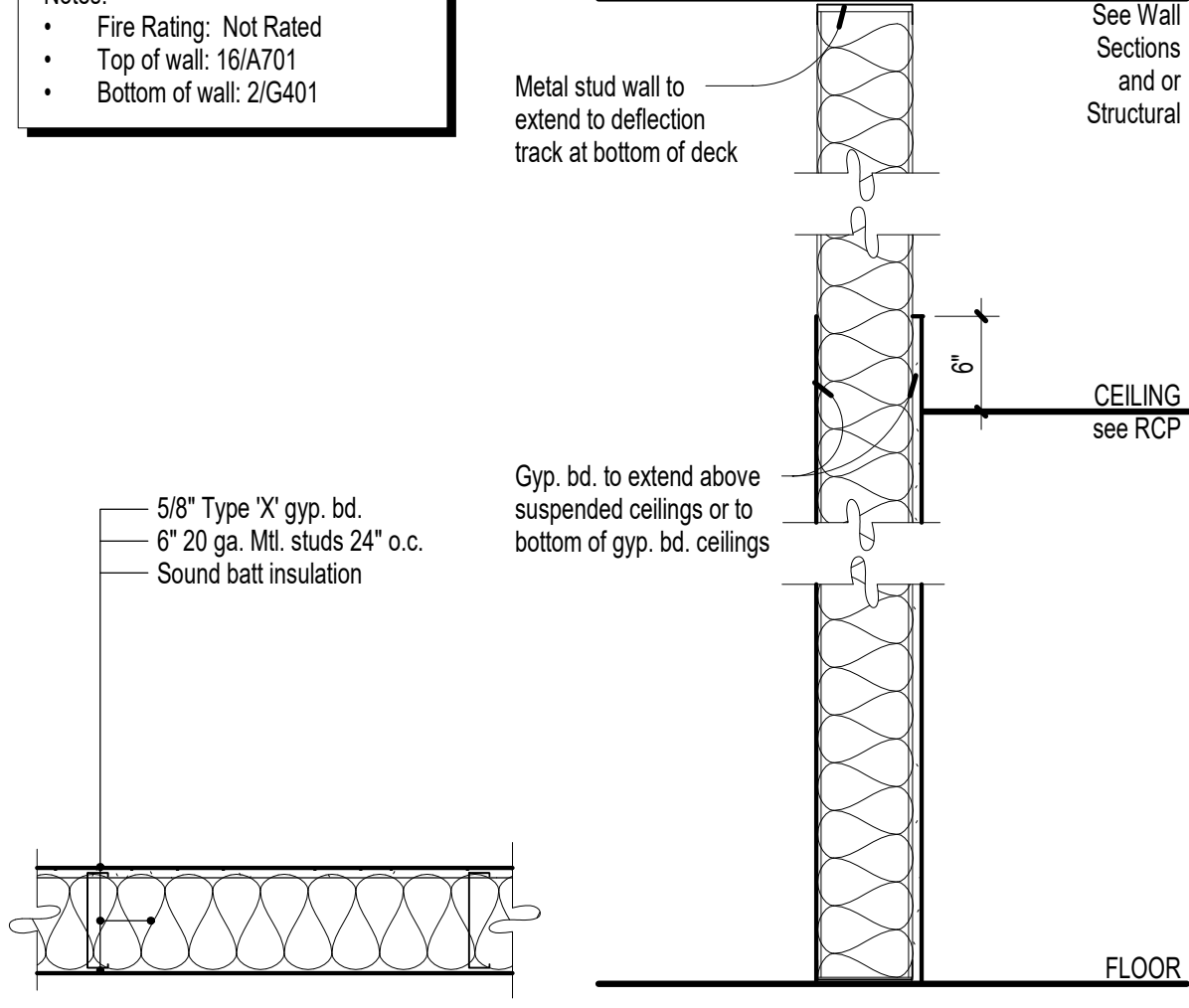
**962C** Interior Metal Stud Wall-Finish One Side  
 1' = 1'-0"

Notes:  
 • Fire Rating: Non-rated  
 • Top of wall: 16/A701  
 • Bottom of wall: 2/G401

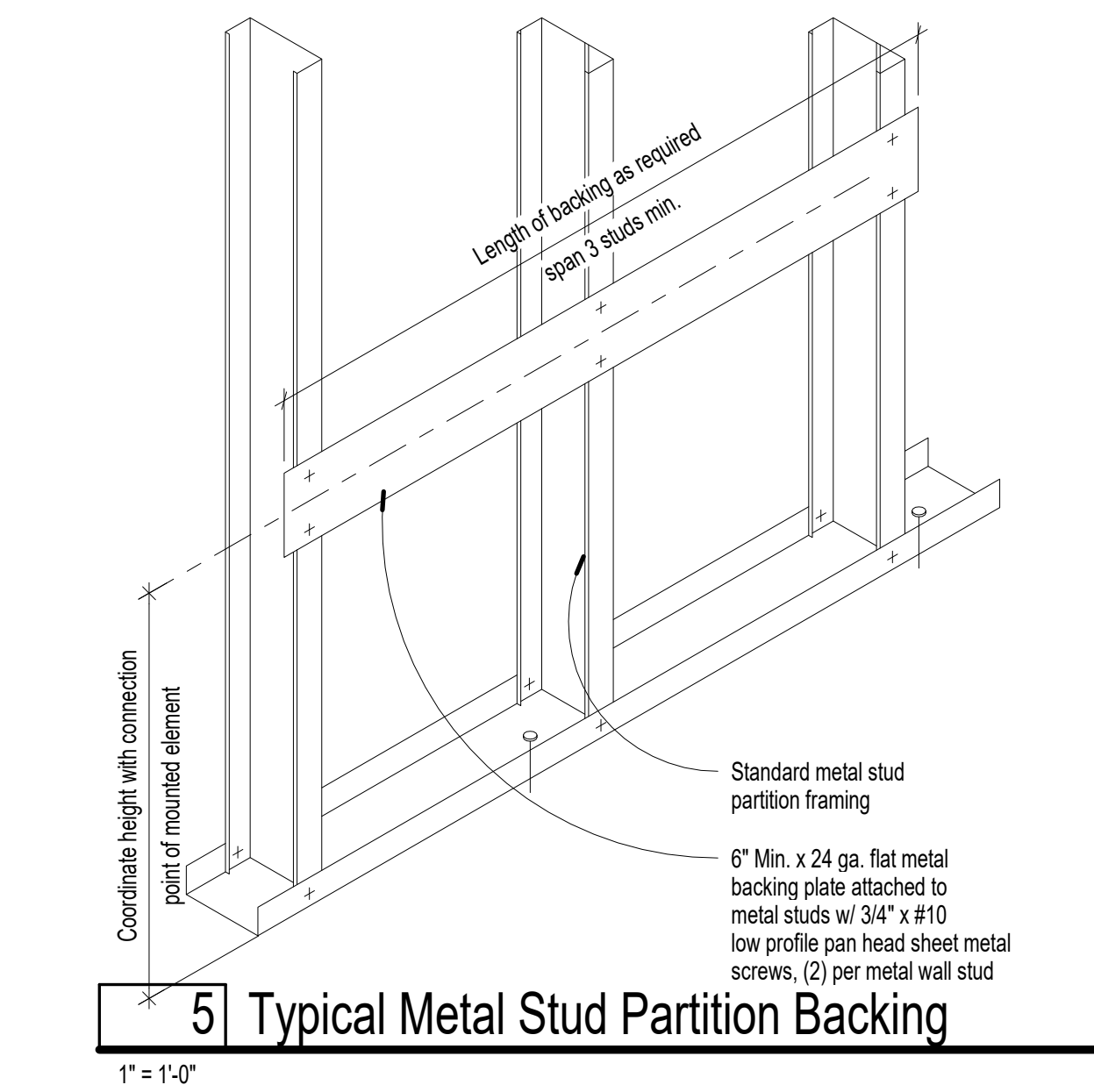


**961C** Interior Metal Stud Wall  
 1' = 1'-0"

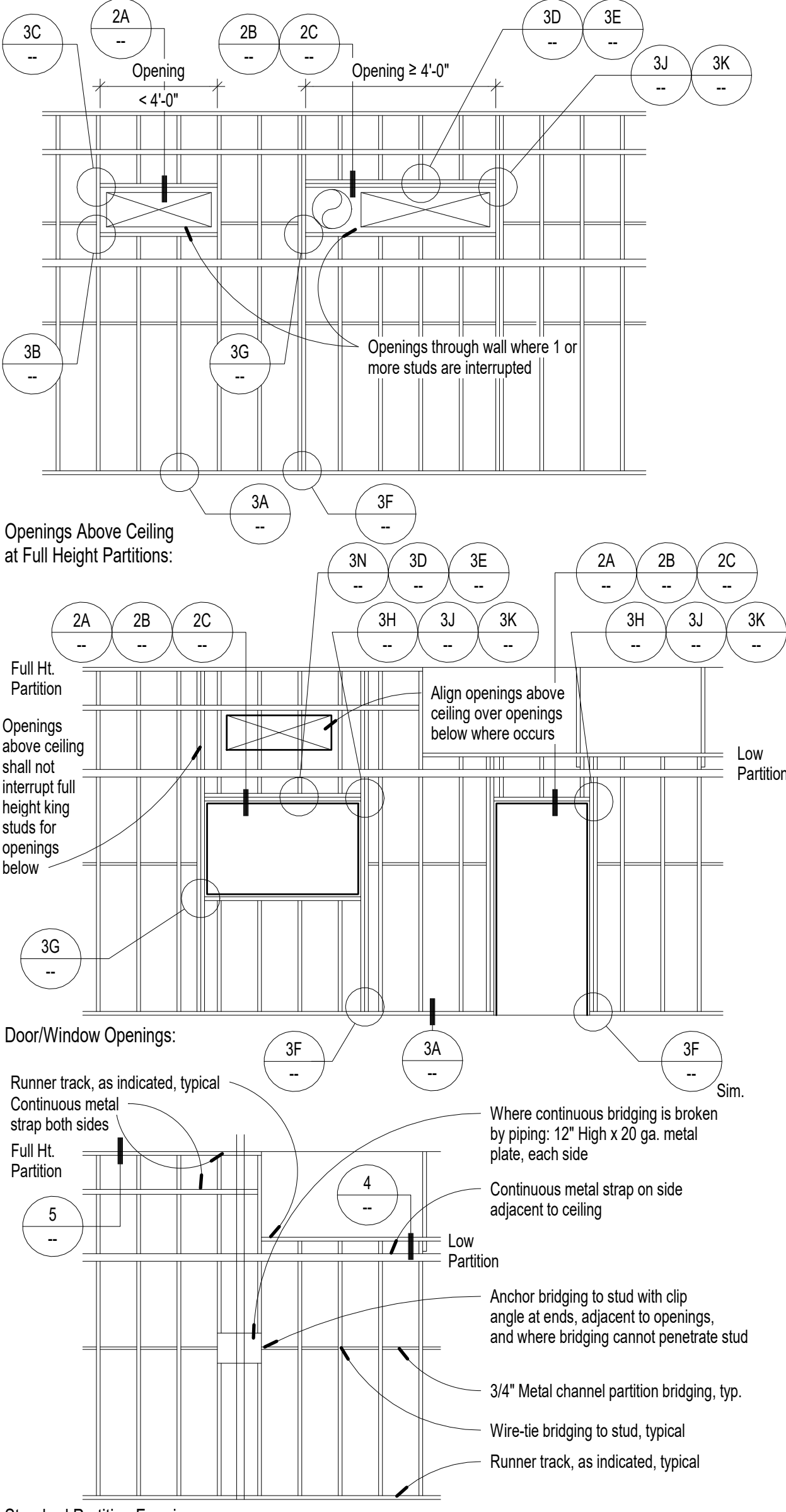
Notes:  
 • Fire Rating: Not Rated  
 • Top of wall: 16/A701  
 • Bottom of wall: 2/G401



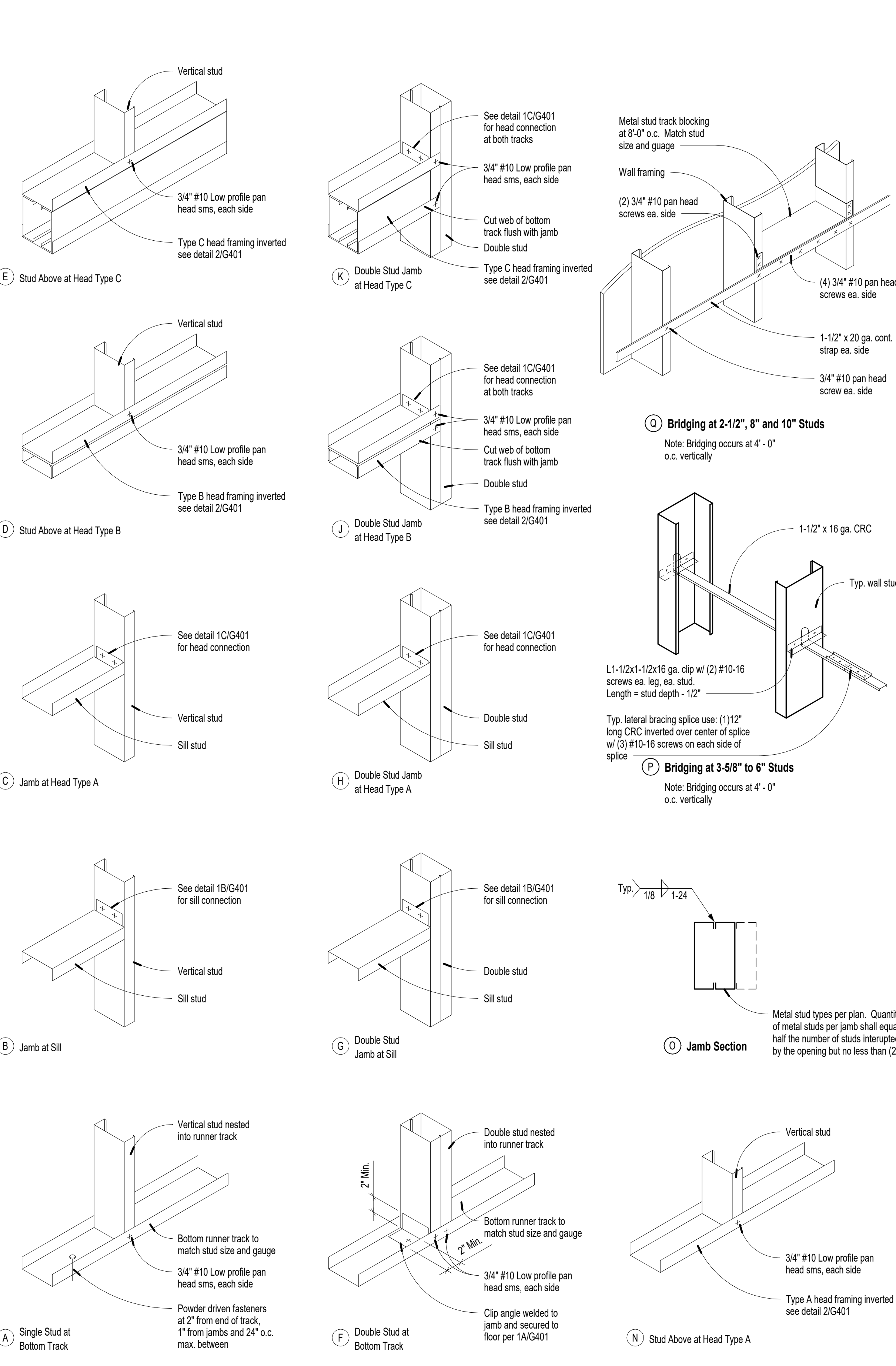
**961BN** Interior Metal Stud Wall  
 1' = 1'-0"



**5** Typical Metal Stud Partition Backing  
 1' = 1'-0"



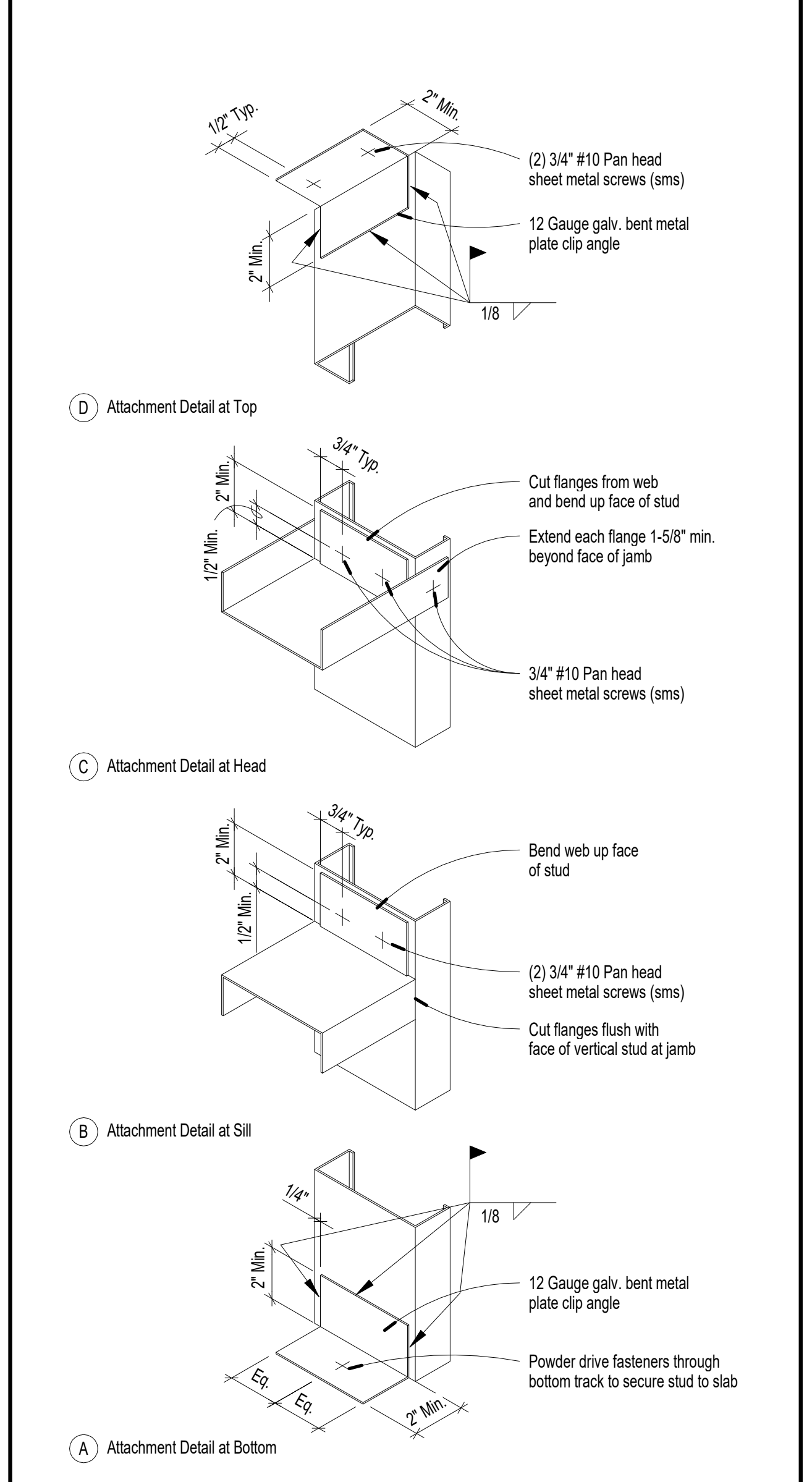
**3** Typical Framing Elevations  
 1/4" = 1'-0"



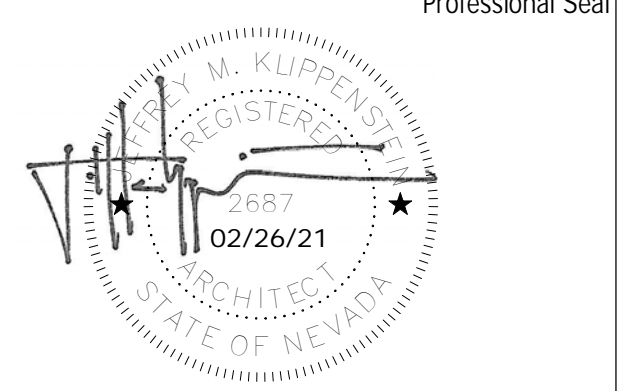
**2** Typical Metal Stud Partition Framing  
 1' = 1'-0"

### Metal Stud Framing Notes

- The purpose of this sheet is to describe typical metal stud framing connections, but is not intended to show specific detail conditions. Other drawings in the Construction Document set show specific conditions and may have additional requirements to those outlined on this sheet. Details on this sheet are shown to illustrate typical conditions and may thus not all occur within the set. This information should be applied to all applicable locations throughout the entire set of Construction Documents.
- See Wall Types for metal stud type used, and Floor Plans for locations of these wall types.
- Type of runner track utilized shall match type of stud size and gauge as indicated for each Wall Type.
- See detail 2/G401 for typical blocking, bridging, and reinforcement requirements. Supplementary framing, additional blocking, additional bridging, partition stiffeners, horizontal bracing, and channel reinforcement not indicated here may also be necessary and shall be provided as required, refer to the specifications.
- For all metal stud framing, isolate framing from transfer of structural loading to framing, both horizontal and vertical, see indicated details.
- Suspended metal stud framing occurs where:
  - Framing at head of opening cannot span between floor supported studs at each end due to interruption by structural member.
  - At locations isolated within ceilings where no adjacent floor supported framing occurs (see Reflected Ceiling Plans).
  - Length of span of head of opening is greater than 12'-0".
- Use of powder driven fasteners:
  - For applications shown on this sheet, powder driven fasteners shall be 0.145" min. shank diameter by 1-1/4" min. length with 5/16" min. steel washer unless larger fastener is noted.
  - For applications shown by the details on this sheet, powder driven fasteners shall only be utilized for attachment to concrete.
  - Powder driven fasteners may only be used where the depth of concrete exceeds three times the penetration depth of the fastener and there is at least 1-1/2" of concrete cover measured laterally in all directions from fastener. Where adequate concrete does not occur, use #10 sheet metal screws to attach to metal decking.
- Interior stud framing shall be installed per ASTM C754-11.
- Metal stud shop drawings shall include allowable span ratings for the framing sizes used with 5 psf load and L240 maximum deflection.



**1** Metal Stud Jamb Connection at Openings  
 1' = 1'-0"



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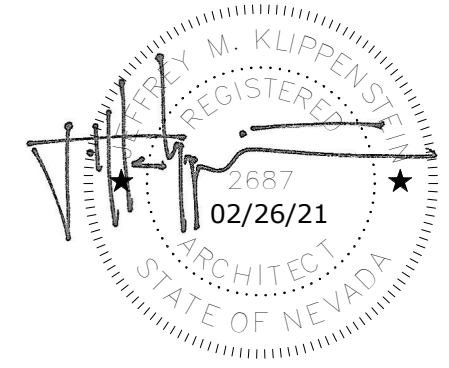
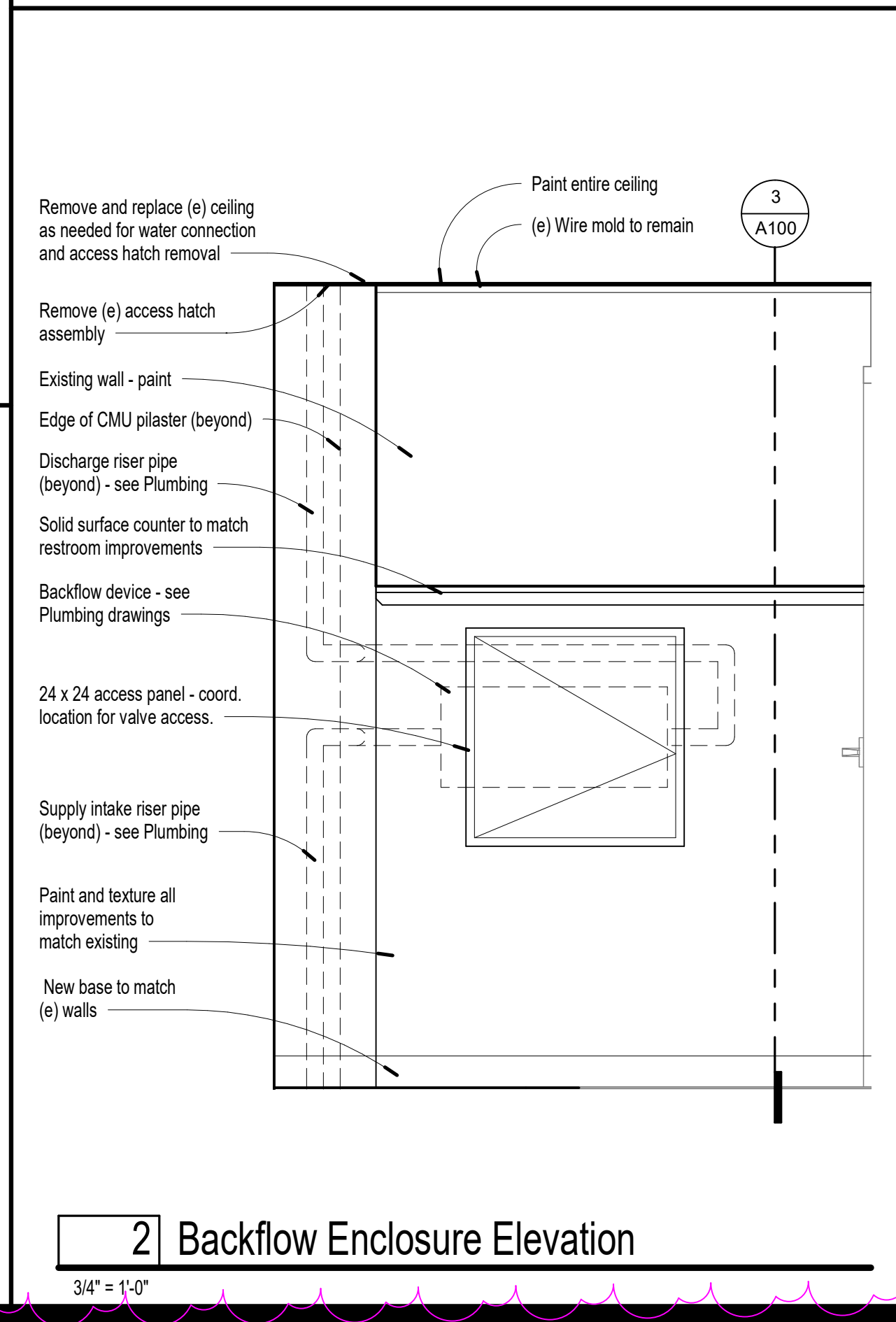
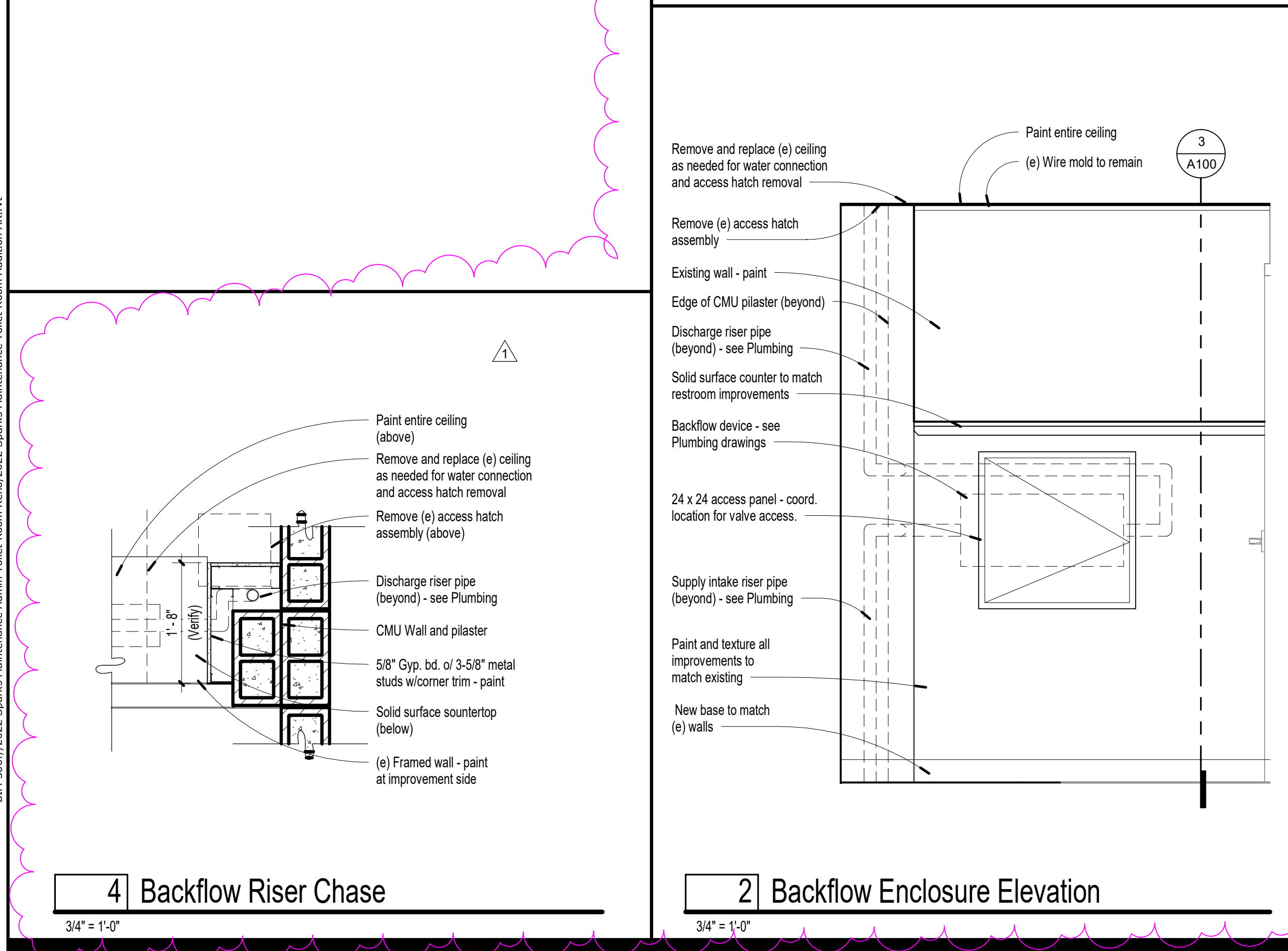
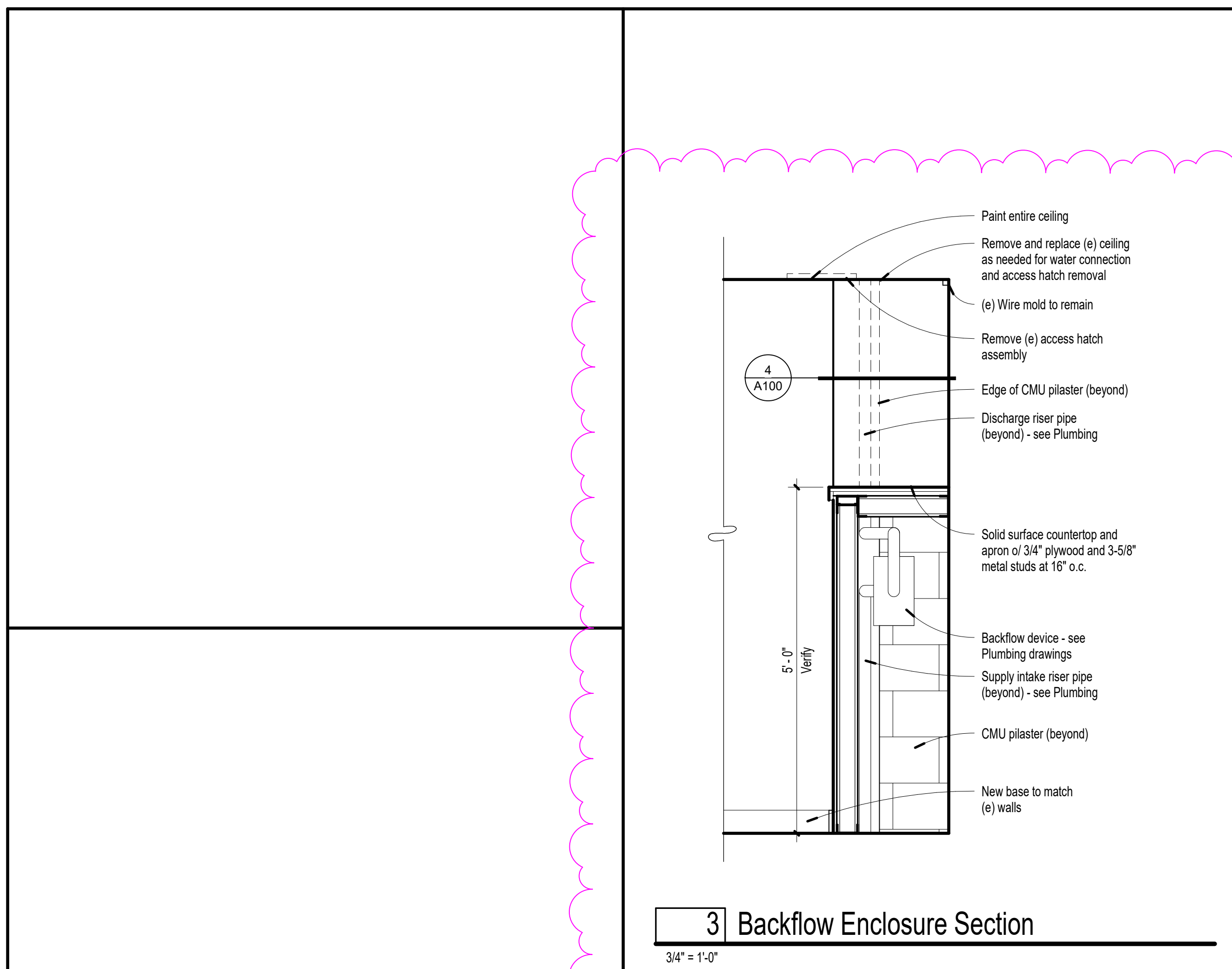
Typical Metal Stud Framing Details  
 February 26, 2021  
 H+K Project No: 2022  
**G401**



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**Sparks Maintenance Administration Toilet Room Renovation**  
 215 S 21st Street  
 Sparks, Nevada 89431

Site/Floor Plan  
 February 26, 2021  
 H+K Project No: 2022  
**A100**

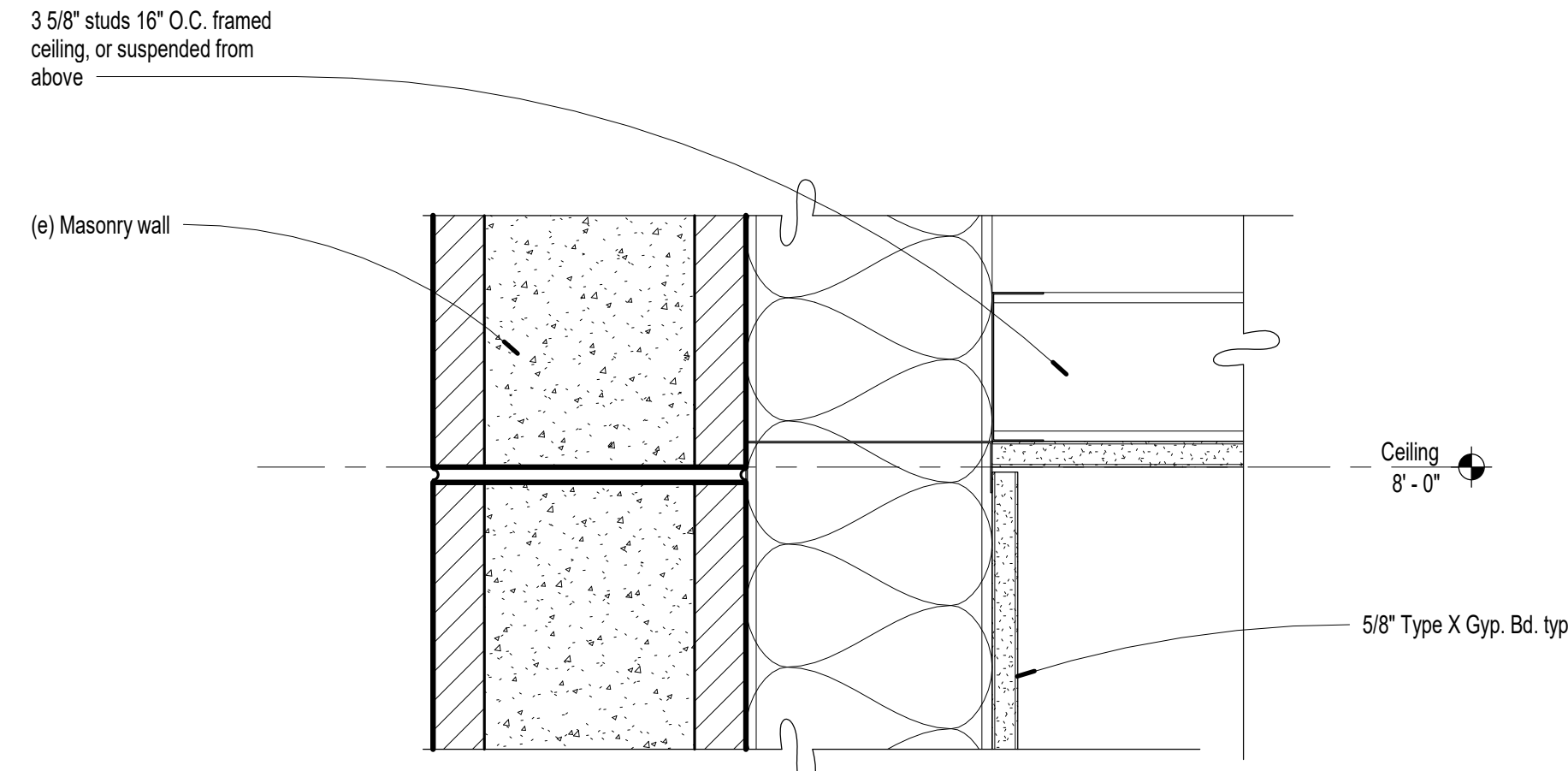
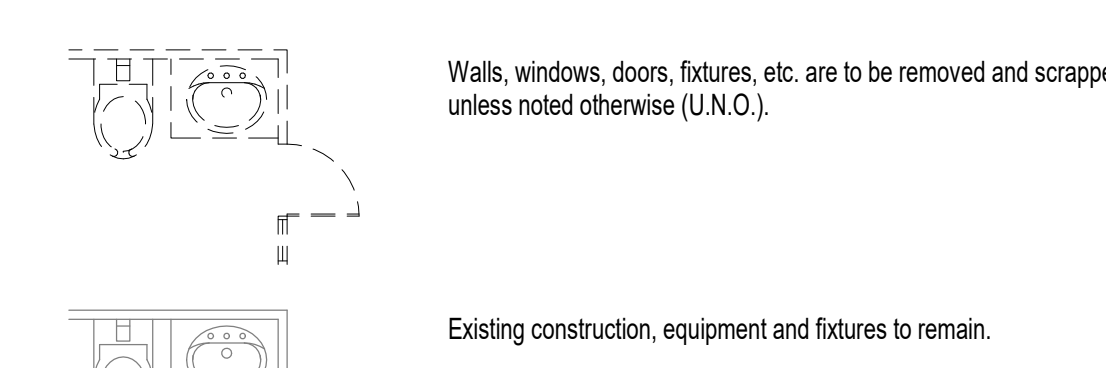
### Sheet Notes

- All door locations in gypsum board partitions not dimensioned will be 3" from the studs of perpendicular wall to edge of rough opening (U.N.O.).
- All dimensions are from face-of-stud, face of CMU, or center of framed opening, unless noted otherwise.
- Provide 6" wide, 24 gage flat strap backing behind all fixtures and wall mounted accessories. This includes cabinets and any other items that are wall mounted. Blocking shall span a minimum of three studs and be connected to each stud with a minimum of two screws.
- Refer to Mechanical and Electrical plans for equipment related to those disciplines. All required equipment not necessarily noted on this sheet.
- Room Signage:  
Provide signs adjacent to doors where indicated on plan. Signs will be ADA compliant and the text will be that indicated on the Room Signage Schedule. All room signage shall coordinate with facility's existing signage system.
- Openings, pockets, etc. shall not be placed in slabs, beams, columns, walls, etc., unless specifically detailed on the drawings.
- Provide a rubber-vinyl reducer or transition trim at all intersections of carpet and resilient tile, carpet and vinyl sheet goods, or at all edges of carpet that abut a raised or lowered surface of dissimilar material. Note: Provide replacement transitions or reducers only where removal of existing flooring is not required for transition of reducer trim replacement.
- There should be no surface mounted conduit. All conduit to be concealed.
- Where new gypsum board walls abut existing CMU scribe to fit tightly and caulk. Rated walls shall receive fire rated sealant where required to maintain rating.
- Repair and repaint the entire wall where alteration work is performed, U.N.O. Paint color to match (e) walls and areas adjacent.
- All touch up and new painting will be as follows:  
Bottom coat: Latex primer  
Intermediate coat and top coat: Acrylic Latex Enamel
- Sheen shall match existing adjacent surfaces. Contractor to coordinate paint manufacturer with Owner to match (e) maintenance paint stock.
- Texture all existing gypsum board walls to match texture of new walls where noted.

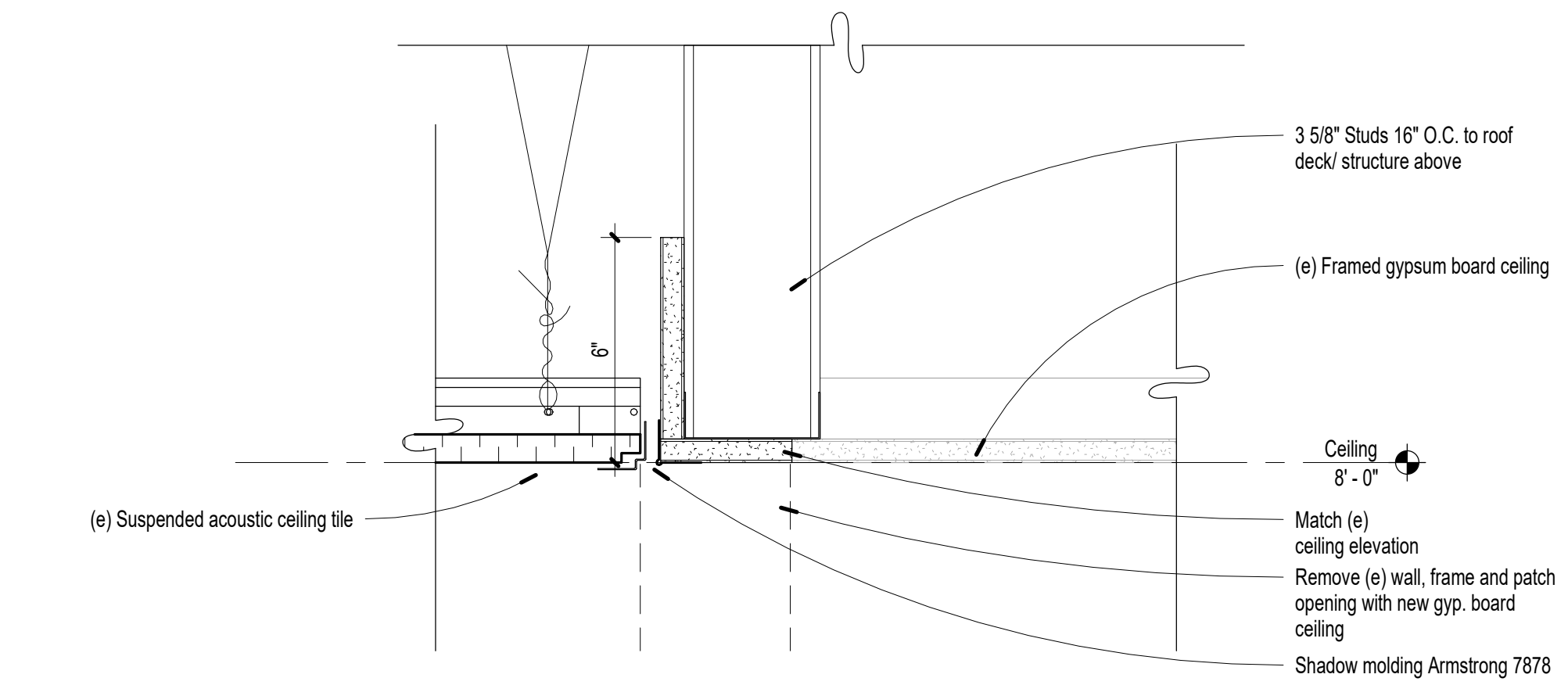
### Demolition Notes

- For the purpose of Architectural work, all items not shown to be removed or altered on this sheet shall remain in their existing condition. This pertains to all equipment and other consultant's work. See other disciplines for additional demolition and alterations to utilities. Notify the Architect of any components which vary from those shown on the drawings.
  - In the event that demolition work creates a condition where existing spaces are open to the weather, the Contractor shall protect the building from the effects of exposure from exterior conditions. These conditions shall be weather-tight at the conclusion of his work each night. At the conclusion of his work in that area the Contractor is to replace all removed components to a weather-tight condition to match adjacent finishes.
  - There will be selective demolition for Structural, Electrical and Mechanical components. This demolition is to facilitate the replacement and/or new installation of Structural, Electrical and Mechanical components. Although this demolition may not appear specifically on this sheet, the Contractor shall include in his bid all demolition work for the removal of required building materials necessary for the installation of these components.
  - See Selective Demolition, Cutting and Patching sections in Project Manual for additional demolition requirements.
  - Protect adjacent surfaces to remain from damage. Contractor is to repair or replace all finishes that are damaged or removed due to the installation or removal of any materials, fixtures, accessories or construction noted on these drawings. Repaired or replaced finishes shall match adjacent existing surfaces.
  - Refer to Ceiling Demolition Plan for extent of ceiling demolition.
  - All dimensions are taken from Record Drawings. Dimensions must be field verified prior to the start of work.
  - Hazardous Material: Refer to specifications for additional information. It is unknown whether hazardous materials will be encountered in the Work.
- Definitions:  
Remove: Detach items from existing construction and legally dispose of them off-site, unless indicated to be removed and salvaged or removed and reinstalled.  
Remove and salvage: Carefully detach from existing construction, in a manner to prevent damage and deliver to Owner for reuse.  
Remove and reinstall: Detach items from existing construction, prepare for reuse, and reinstall them where indicated.  
Existing to remain: Existing items of construction that are not to be permanently removed and that are not otherwise indicated to be removed, removed and salvaged, or removed and reinstalled.

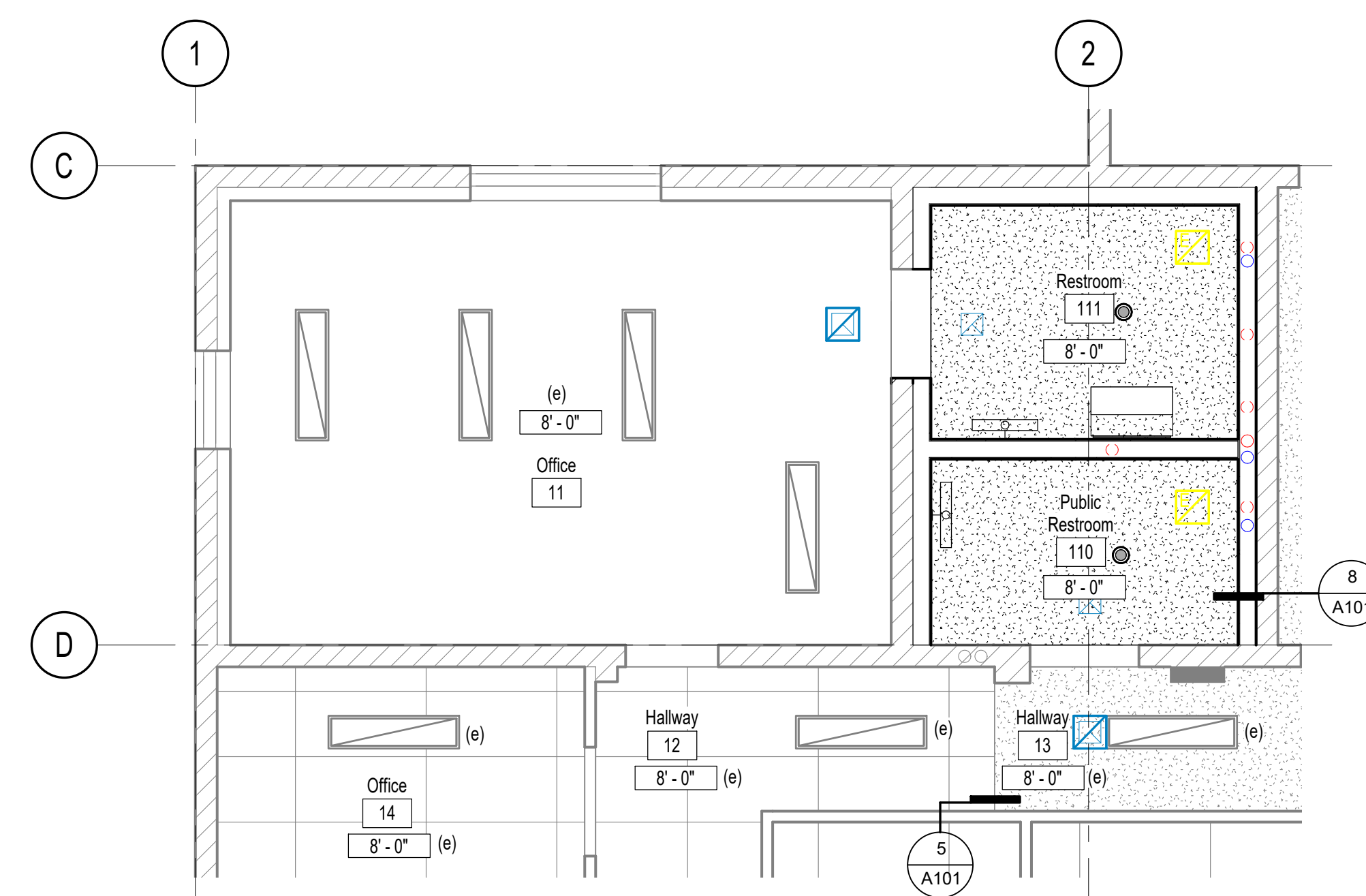
### Demolition Legend



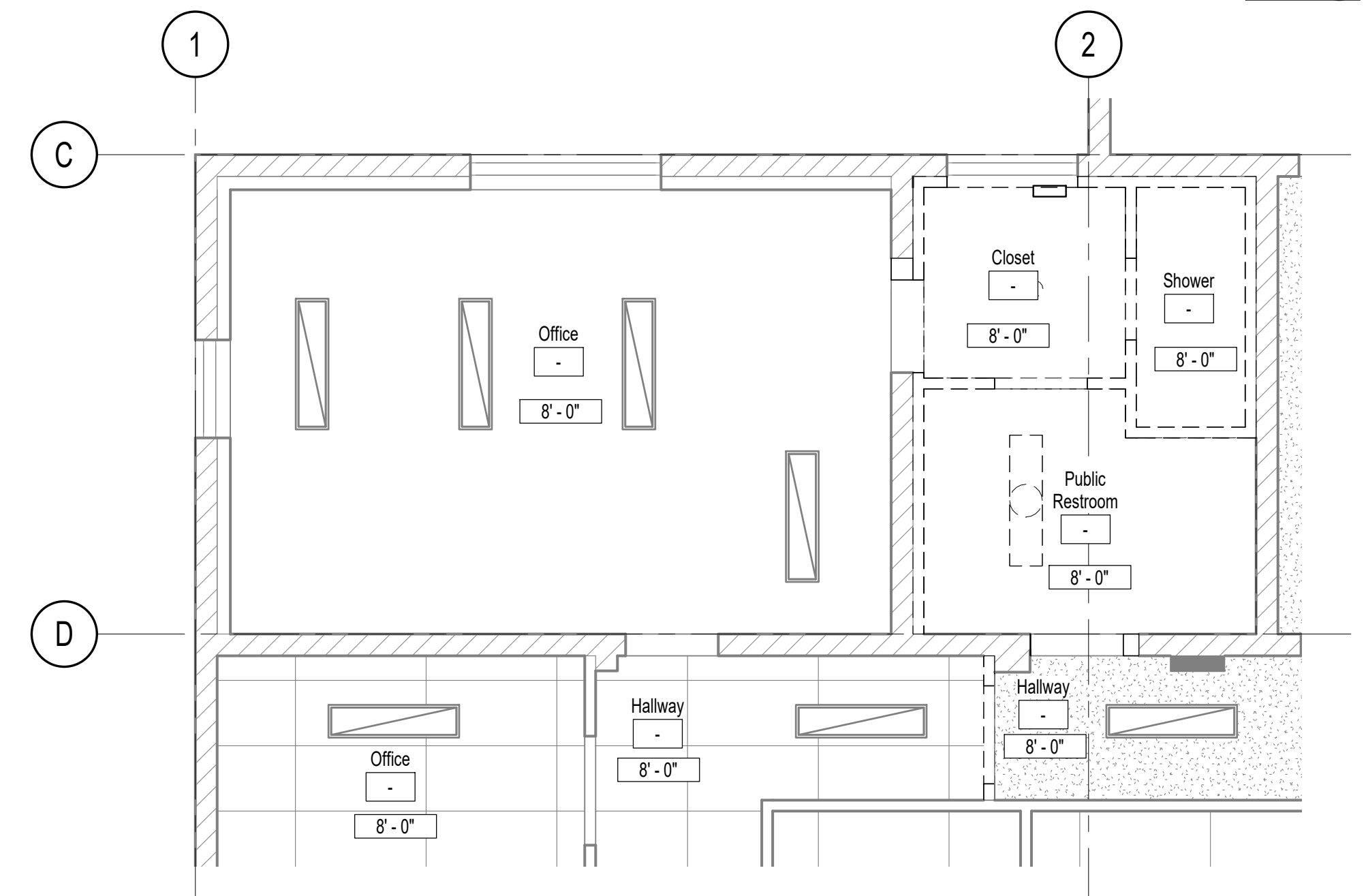
**8** Gypsum Board Ceiling at Masonry Wall  
3" = 1'-0"



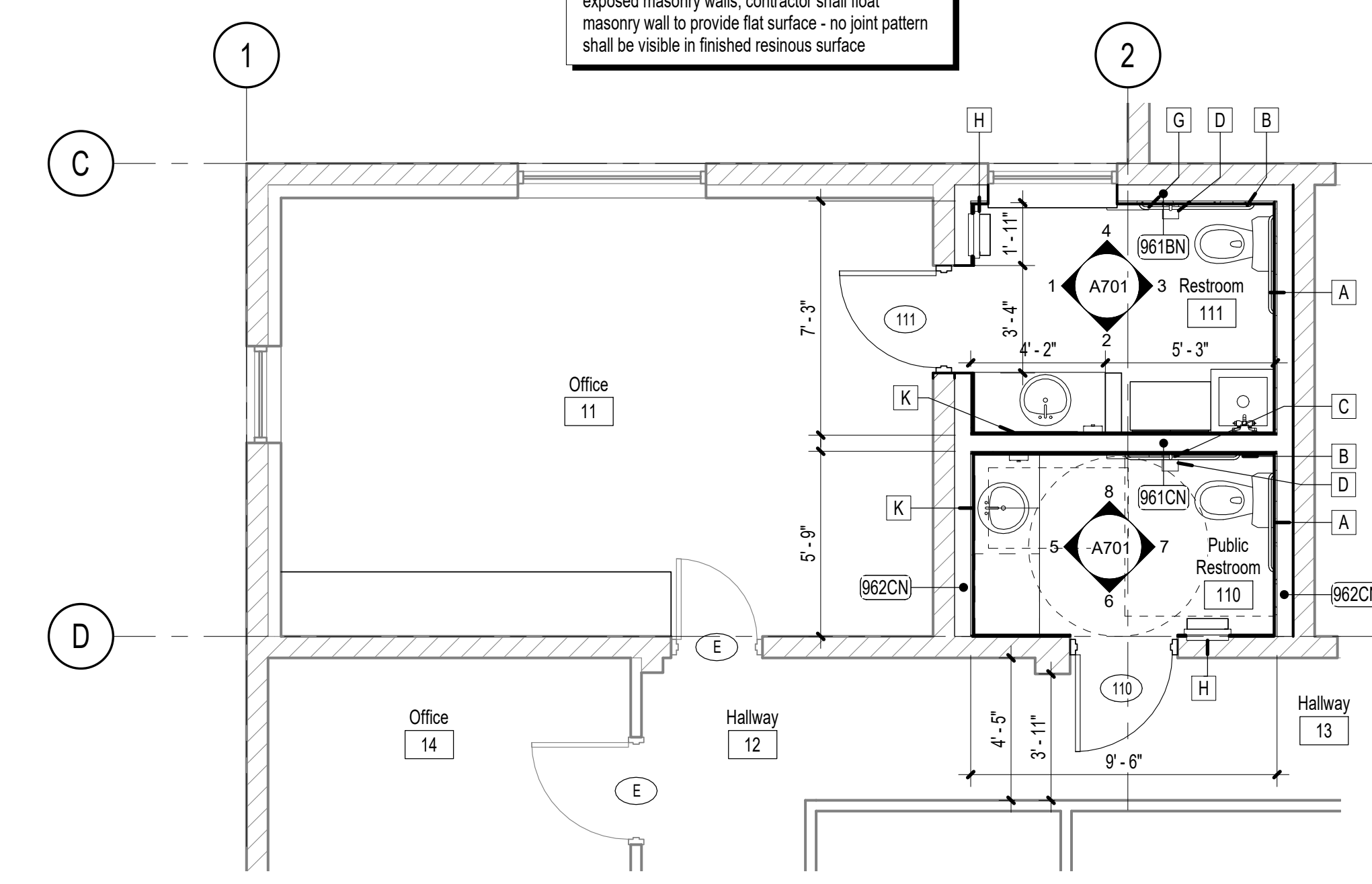
**5** Ceiling Tile Transition to Gyp Board Ceiling  
3" = 1'-0"



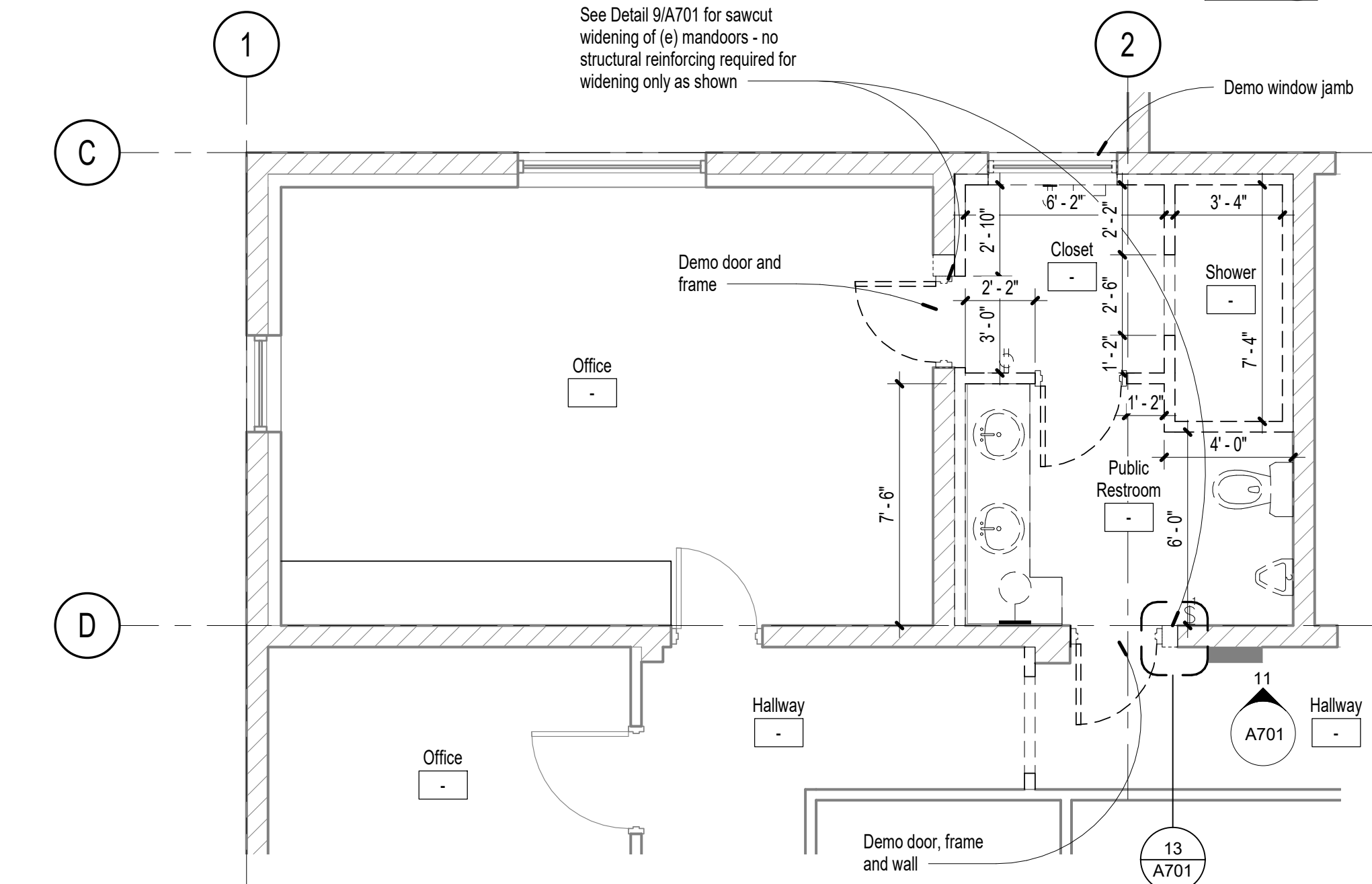
**4** Reflected Ceiling Plan - Restroom  
1/4" = 1'-0" North



**3** Reflected Ceiling Plan - Demo Plan  
1/4" = 1'-0" North



**2** Enlarged Floor Plan - Restroom  
1/4" = 1'-0" North

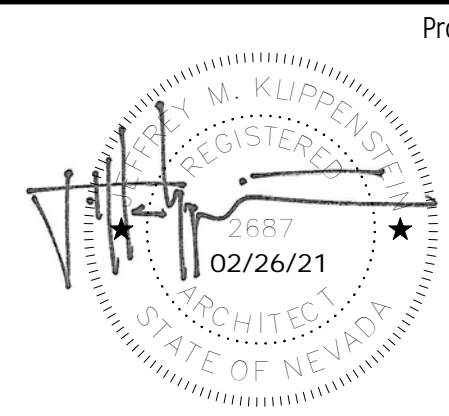


**1** Enlarged Floor Plan - Demo Plan  
1/4" = 1'-0" North

Note:  
Where resinous wall covering is to be applied to exposed masonry walls, contractor shall float masonry wall to provide flat surface - no joint pattern shall be visible in finished resinous surface

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**Sparks Maintenance Administration  
Toilet Room Renovation**  
215 S 21st Street  
Sparks, Nevada 89431

Ceiling and Floor Plans

February 26, 2021  
H+K Project No: 2022

**A101**



# Specifications

**DIVISION 2 – EXISTING CONDITIONS**

**024110 Cutting and Patching**

1. Cutting refers to the removal of in-place construction necessary to permit installation or performance of other work.
2. Patching refers to the fitting and repair work required to restore surfaces to original conditions after installation of other work.
3. Do not cut and patch structural elements in a manner that could change their load-carrying capacity or load-deflection ratio.

**024119 Selective Structure Demolition**

1. Removing refers to detaching items from existing conditions and legally disposing of them off-site, unless indicated to be removed and salvaged or removed and reinstalled.
2. Reinstalled items must be cleaned, prepared for service and installed in the same location unless otherwise indicated. Salvaged items must be carefully removed, cleaned and packed or crated to protect against damage, identify contents of containers and deliver to locations indicated. Scrap refers to the removal and disposal of items indicated.
3. Existing to remain refers to existing items of construction that are not to be removed and that are not otherwise indicated to be removed, reinstalled or salvaged.
4. Required demolition is noted on the drawings. Contractor is responsible for all required demolition and debris removal.
5. Should unforeseen condition be encountered which affects the design or function of project, investigate fully and notify Owner. While awaiting Owner's response, reschedule operations if necessary, to avoid delay of overall project.

**DIVISION 3 - CONCRETE**

**031000 Concrete Formwork**

1. Provide formwork in accordance with provisions of this Section for cast-in-place concrete shown on the Drawings or required by other Sections of these Specifications. Comply with the pertinent provisions of ACI 347.

**033300 Cast-in-Place Concrete**

1. Provide cast-in-place concrete, including formwork and reinforcement, as required to complete the construction shown on the Drawings and as specified herein.
2. Comply with ACI 301, "Specifications for Structural Concrete for Buildings", and with ACI 318. Concrete for interior walls and slabs shall be at least 3500 psi.

**033500 Concrete Finishing**

1. Provide finishes on cast-in-place concrete as called for on the Drawings, specified herein, and as needed for a complete and proper installation. All floor slabs placed on grade shall receive a troweled finish with  $F_r = 35$ , and  $F_t = 35$ , flatness and levelness requirements. Raised floor slabs placed on metal deck shall receive a troweled finish.

**DIVISION 6 – WOOD AND PLASTICS**

**061000 Rough Carpentry**

1. All framing lumber shall conform to PS-20 and shall be new, S4S sound and thoroughly seasoned, with a moisture content not exceeding 19% at the time of installation. All grades shall be free of spiral or diagonal grain with slope of grain not over 1 inch in 10 inches.

**064114 Plastic-Laminate Faced Architectural Cabinets**

1. Premium Grade, Frameless Construction, 1/2" Reveal,
2. High Pressure Decorative laminate: NEMA LD 3, grades as indicated
3. Acceptable Manufacturers: Formica Corporation or approved equal.
4. Melamine allowed only on non-visible surfaces.
5. Unless otherwise indicated, comply with the "Architectural Woodwork Standards" for grades of architectural plastic-laminate cabinets indicate for construction, finished, installation, and other requirements.

**066100 Solid Surface Countertops**

1. Homogenous solid sheets of filled plastic resin complying with ANSI SS1. Provide Standard type or Veneer Type made from material complying with requirements for Standard Type, as indicated.
2. Adhesives shall not contain urea formaldehyde.
3. Acceptable manufacturers: Avonite Surfaces or approved equal.

**DIVISION 7 – THERMAL AND MOISTURE PROTECTION**

**072100 Thermal Insulation**

1. Sound Attenuation: Sound Attenuation Batts, 3 1/2" thick.
2. Exterior Walls: FSK-faced R-11 batt insulation between metal studs.
3. Accepted manufacturers: Johns Manville; a Berkshire Hathaway company or approved equal.

**072616 Below-Grade Vapor Retarders**

1. Vapor barrier with seam tape, pipe boots, detail strip for installation under concrete slabs.
2. 15 mil minimum thickness in conformance with ASTM E 154, with minimum .01 permeance and Class A vapor retarder.

**079200 Joint Sealants**

1. Single-component, Nonsag, Neutral-Curing Silicone Joint Sealant: ASTM C 920, Type S, Grade NS, Class 25, for use NT.
2. Provide joint sealants, backings, and other related materials that are compatible with one another and with joint substrates under conditions of service and application, as demonstrated by joint-sealant manufacturer, based on testing and field experience.
3. Acceptable Materials: Dow Corning Corporation, 799 or approved equal.

**DIVISION 8 – DOORS AND WINDOWS**

**081113 Hollow Metal Doors and Frames**

1. Hollow Metal Frames: Grade III, Level A – Extra Heavy-Duty Doors and frames, Full profile welded, Frames: seamless door edges.
2. Acceptable manufacturer: Ceco Door; ASSA ABLOY or approved equal.

**083113 Access Doors and Frames**

1. Concealed Flange flush access doors for walls and ceiling. Uncoated steel sheet, factory primed for field painting.
2. Self-latching bolt, 14-gauge steel door, 16-gauge steel frame with 1" flange.
3. Provided fire-rated doors in rated construction to match fire-rating of included assembly.
4. Acceptable manufacturer: Access Panel Solutions or approved equal.

**087100 Door Hardware**

1. Provide template-produced hinges for hinges installed on hollow-metal doors and hollow-metal frames.
2. Acceptable manufacturers: Hager Companies or approved equal.
3. Provide manufacturer's standard strike for each lock bolt or latch bolt complying with requirement indicated for applicable lock or latch and with strike box and curved lip extended to protect frame; to match lock or latch.
4. Acceptable manufacturer: Schlage Commercial Lock Division or approved equal.
5. All lock cylinders are owner furnished/contractor installed (OF/CI) Cylinders are tumbler type, constructed from brass or bronze, stainless steel, or nickel silver.
6. All keying will be by owner.
7. Surface closers: BHMA A156.4; rack and pinion hydraulic type with adjustable sweep and latch speeds controlled by key-operated valves and forged-steel main arm.
8. Acceptable manufacturer: LCN Closers or approved equal.
9. Wall and Floor-mounted stops: CHMA A156.16; polished cast brass, bronze, or aluminum base metal.
10. Acceptable manufacturer: IVES Hardware or approved equal.
11. Door Gasketing: CHMA A156.22; air leakage not to exceed of crack length for gasketing other than for smoke control.
12. Acceptable manufacturer: Pemko Manufacturing Co. or approved equal.
13. Thresholds shall be fabricated to full width of opening indicated.

**DIVISION 9 – FINISHES**

**092216 Non-Structural Metal Framing**

1. Steel framing for interior gypsum board assemblies.
2. Suspension systems for interior gypsum board ceilings, soffits and grid systems.

**092900 Gypsum Board**

1. All gypsum board systems shall be 5/8" Type X, mold and mildew resistant, taped and textured.
2. Typical interior applications to include with Level IV finish with very fine orange peel texture.
3. Glass-mat, water resistant backing board shall be used at resinous wainscot.
4. Accepted manufacturer: American Gypsum or approved equal.

**096723 Resinous Flooring and Wainscot**

1. Urethane concrete resinous flooring, integral cove base and wainscot.
2. Self-leveling Full Flake floor and wall topping shall be 1/8" thick with appropriate Primer and Topcoat.
3. Finished floor and wall coating system shall be uniform in color, texture and appearance. All edges that terminate at walls, floor discontinuities and other embedded items shall be sharp, uniform and cosmetically acceptable with no thick or ragged edge.
4. Accepted manufacturer: Key Resin or approved equal.

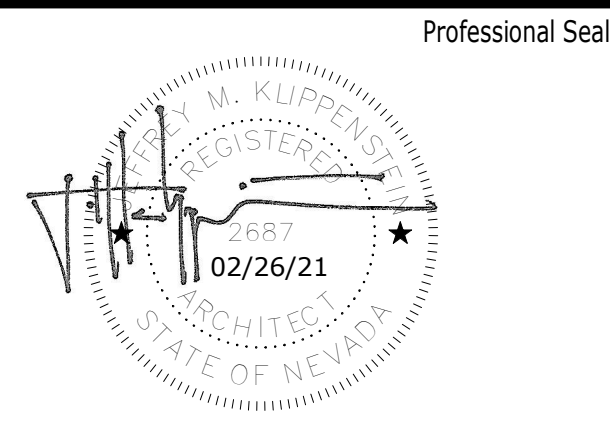
**099600 High-Performance Coatings**

1. Epoxy-Modified Latex System: Gloss Level 5, 35 to 70 units at 60 degrees according to ATSM D 523
2. Clean substrates of substances that could impair bond of coatings, including dust, dirt, oil, grease and incompatible paints and encapsulants.
3. Accepted manufacturer: Benjamin Moore & Co. or approved equal.

**DIVISION 10 – SPECIALTIES**

**102800 Toilet Accessories**

1. Reference Toilet Accessories schedule for specific products.
2. Accepted manufacturer: Bobrick or approved equal.



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**Sparks Maintenance Administration  
Toilet Room Renovation**

215 S 21st Street  
Sparks, Nevada 89431

Specifications

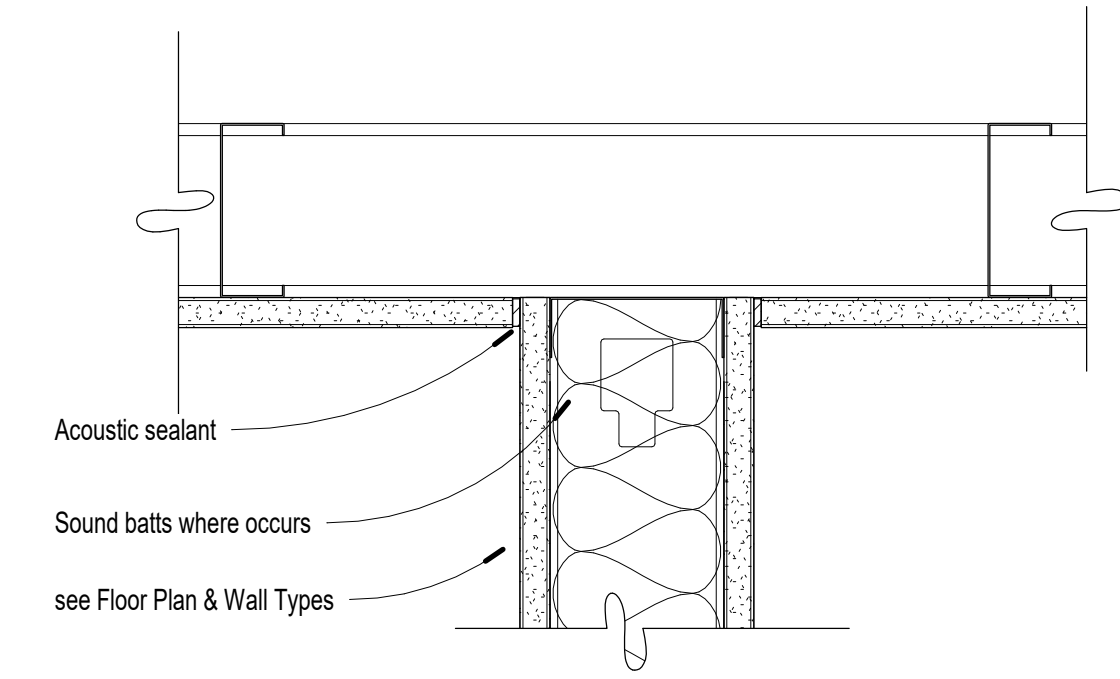
February 26, 2021  
H+K Project No: 2022

**A102**



**16 Top of Partition**

3" = 1'-0"



Door Schedule																	
Door Number	DOORS						FRAME			DETAILS				Hardware Group	Comments		
	Width	Height	Pair	Material	Type	Glass	Door Rating	Material	Frame Rating	Elev.	Glass	Head	Strike			Hinge	Sill
110	3'-0"	7'-0"		WV	F	-	-	HM	-	A	-	14/A701	13/A701	13/A701	12/A701	H1	
111	3'-0"	7'-0"		WV	F	-	-	HM	-	A	-	14/A701	13/A701	13/A701	12/A701	H1	

Material Legend										Door and Frame Types			
<b>Floor:</b> F1 Resinous Flooring F2 Carpet					<b>Base:</b> B1 4" Rubber Base B2 Resinous Wainscot								
<b>Walls:</b> W1 Gypsum Board - Painted W2 Masonry - Painted w/ Resinous Wainscot W3 Gypsum Board - Painted w/ Resinous Wainscot					<b>Ceiling:</b> C1 Gypsum Board - Painted C2 Acoustic Ceiling Panels					Frame Type: Hollow Metal Frame Size: 0" - 4 1/2"			

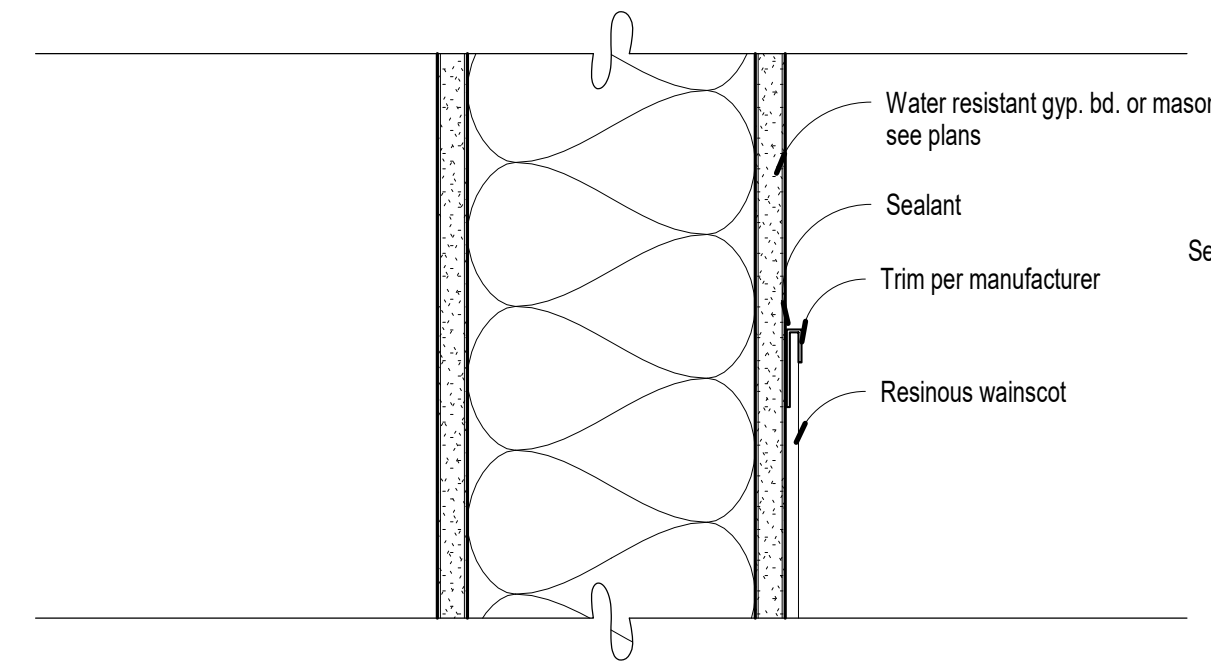
Toilet Accessories Schedule			
Mark	Description	Model	Manufacturer
A	Rear Horizontal Grab Bar (36")	B-6806 x 36	Bobrick
B	Side Horizontal Grab Bar (42")	B-6806 x 42	Bobrick
C	24" Long Security Grab Bar	B-813660 x 24	Bobrick
D	Toilet Paper Dispenser	B-4288	Bobrick
F	Soap Dispenser	B-4112	Bobrick
G	Toilet Seat Cover Dispenser	B-4221	Bobrick
H	Semi-Recessed Convertible Combination Towel and Waste Unit	B-3942	Bobrick
I	Mop Rack B223	B-223 x 36	Bobrick
K	Mirror with Stainless Steel Channel Frame	B-290 2444	Bobrick

Finish Schedule									
Number	Room Name	Floor Finish	Base Finish	Walls				Ceiling Finish	Remarks
				North	East	South	West		
11	Office	F2	B1	W1	W1	W1	W1	C1	
12	Hallway	F2	B1	W1	W1	W1	W1	C2	
13	Hallway	F2	B1	W1	W1	W1	W1	C2	
14	Office	F2	B1	W1	W1	W1	W1	C2	
110	Public Restroom	F1	B2	W3	W3	W2	W3	C1	
111	Restroom	F1	B2	W3	W3	W3	W3	C1	

Door Hardware Group H1				
Qty.	Item	Description	Finish	Manufacturer
6	Hinges	BB1168 4.5x4.5	652	Hager
2	Entry Lock	D53PD	626	Schlage
2	Cylinder	Keymark	626	Medeco
2	Closer	4040XP	689	LCN
2	Wall Stop	1270WVCP	619	Trimco
6	Silencers	GJ64		Glynn-Johnson
2	Threshold	426	628	NGP

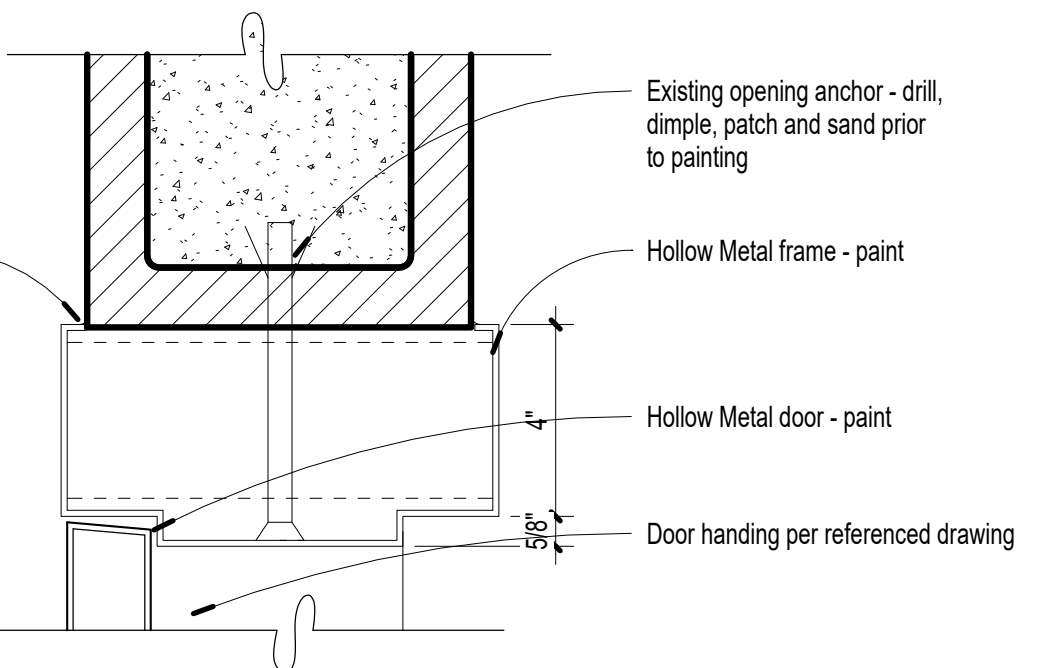
**15 Trim Detail**

3" = 1'-0"



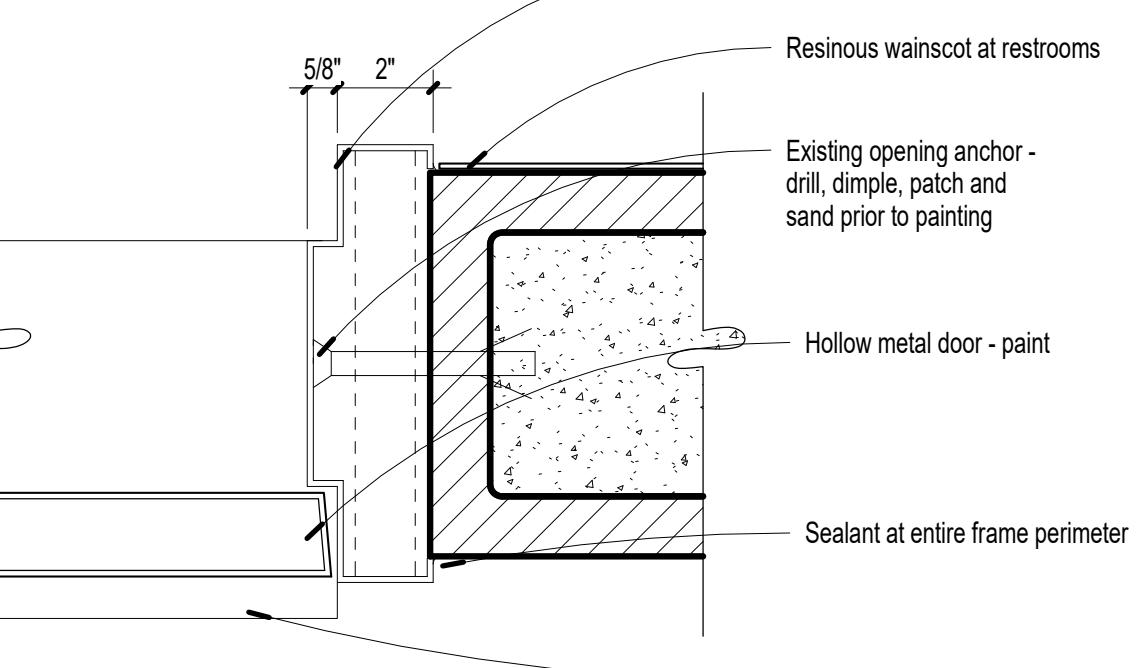
**14 HM Head at CMU Wall**

3" = 1'-0"



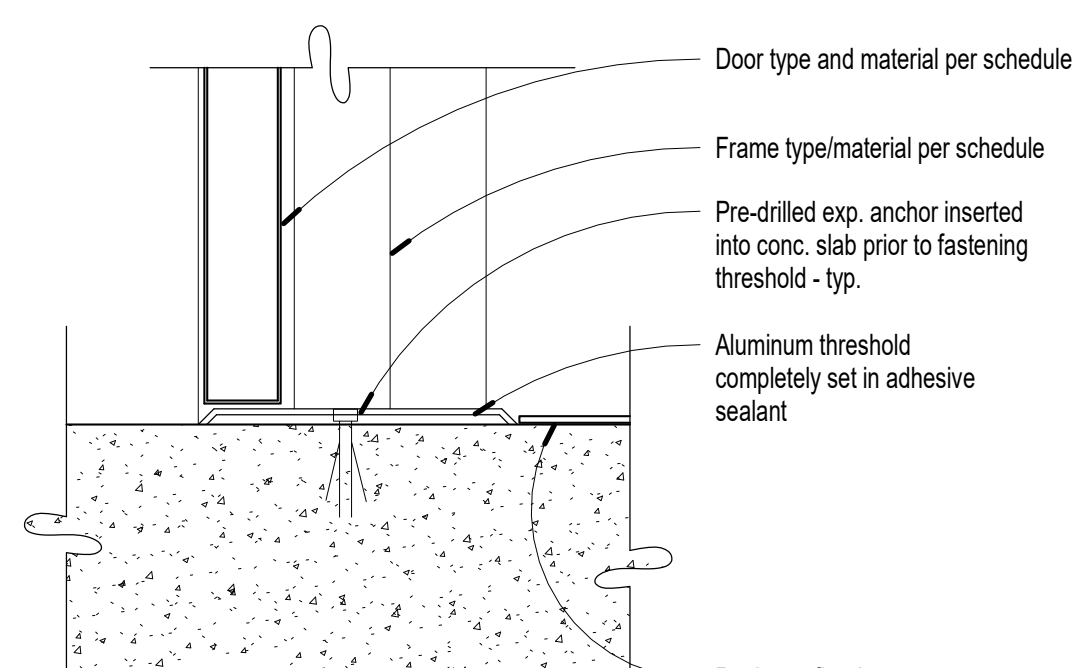
**13 HM Jamb at CMU Wall**

3" = 1'-0"



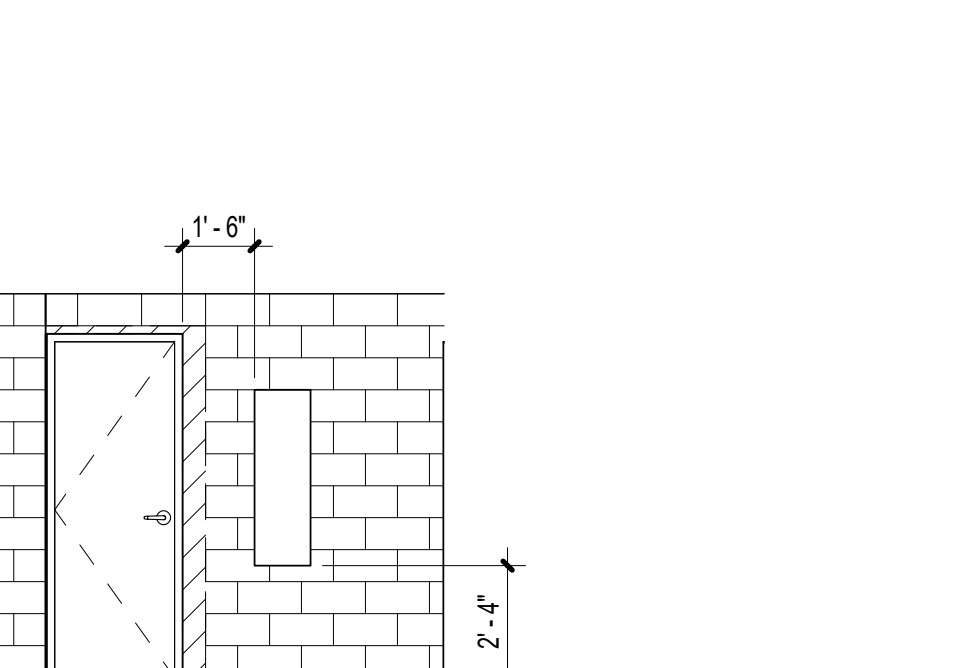
**12 Threshold at Interior Door**

3" = 1'-0"



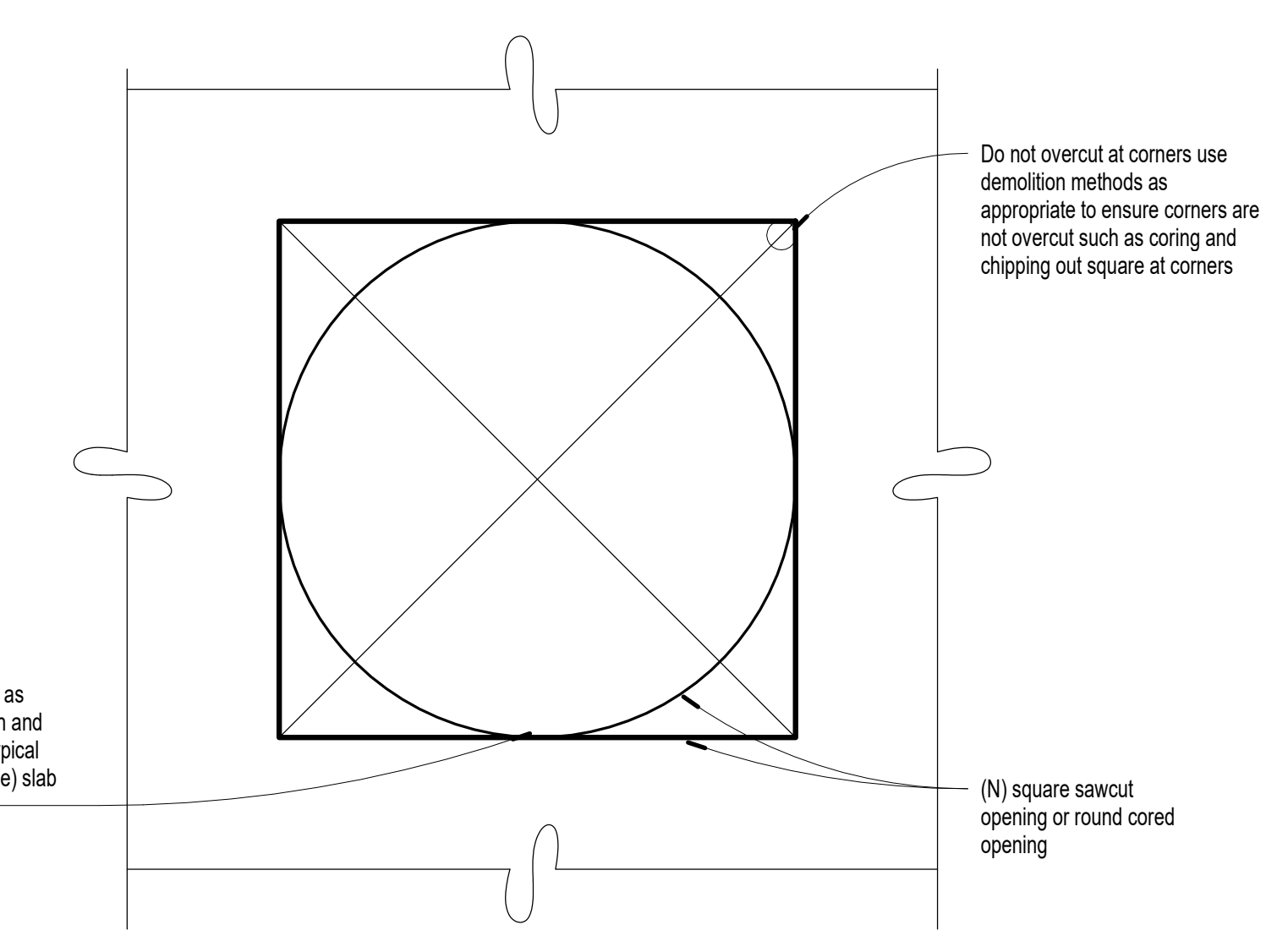
**11 Public Restroom - Demo Elevation**

1/4" = 1'-0"



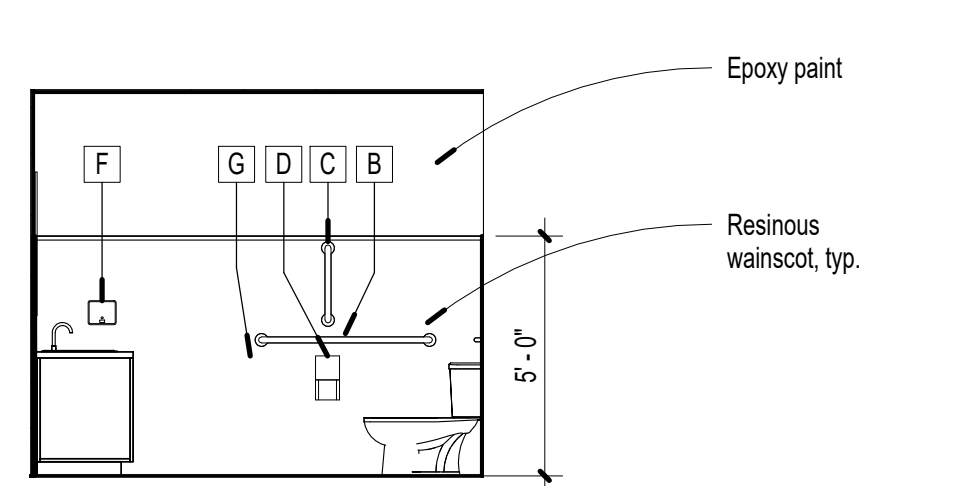
**9 Typ. Sawcut Opening**

3/4" = 1'-0"



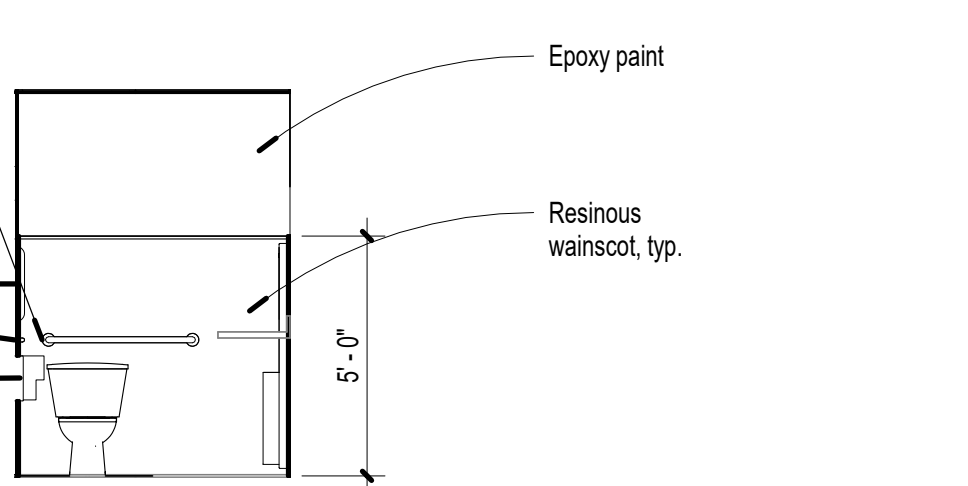
**8 Public Restroom - North Elevation**

1/4" = 1'-0"



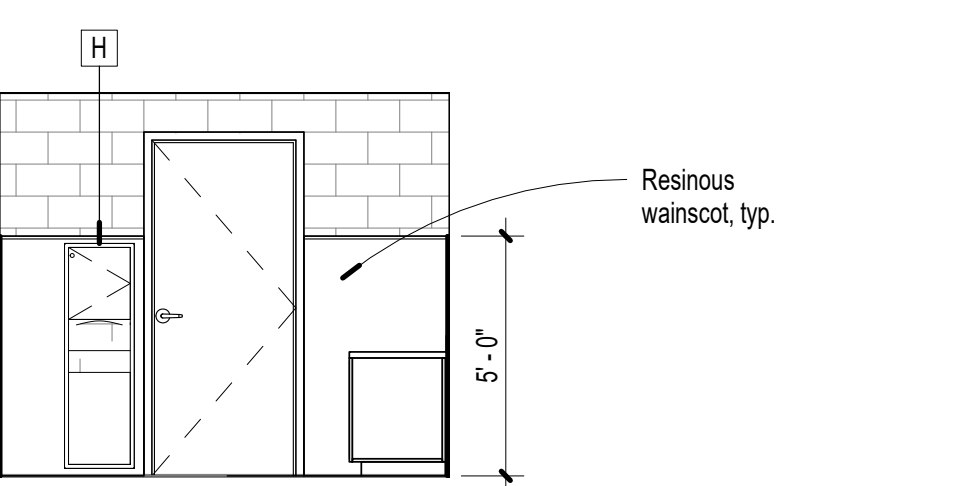
**7 Public Restroom - East Elevation**

1/4" = 1'-0"



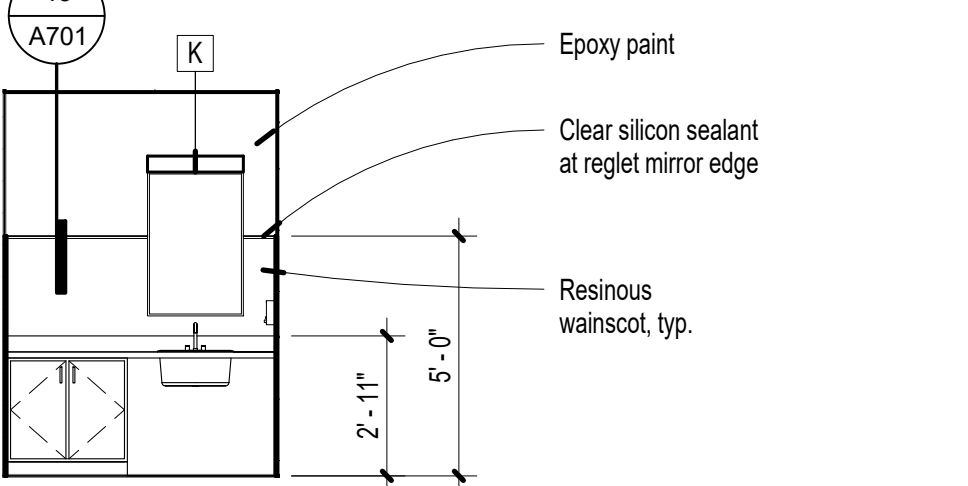
**6 Public Restroom - South Elevation**

1/4" = 1'-0"



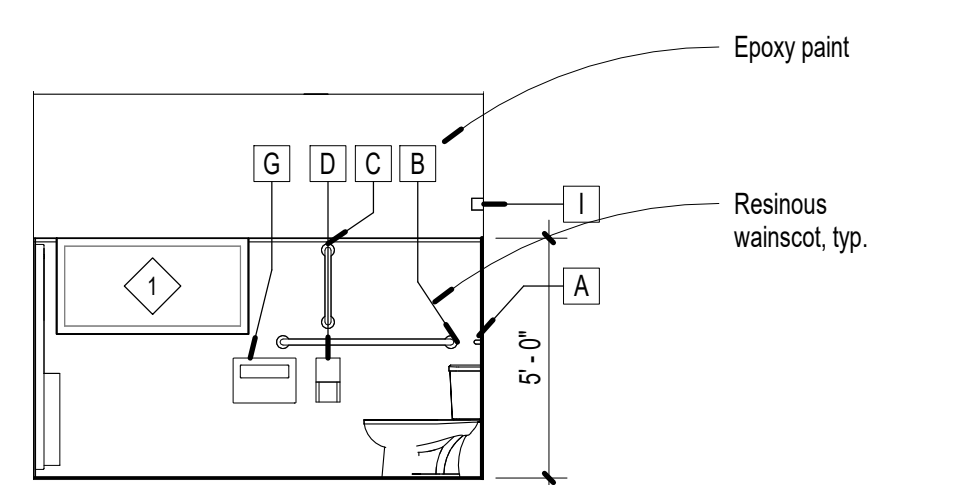
**5 Public Restroom - West Elevation**

1/4" = 1'-0"



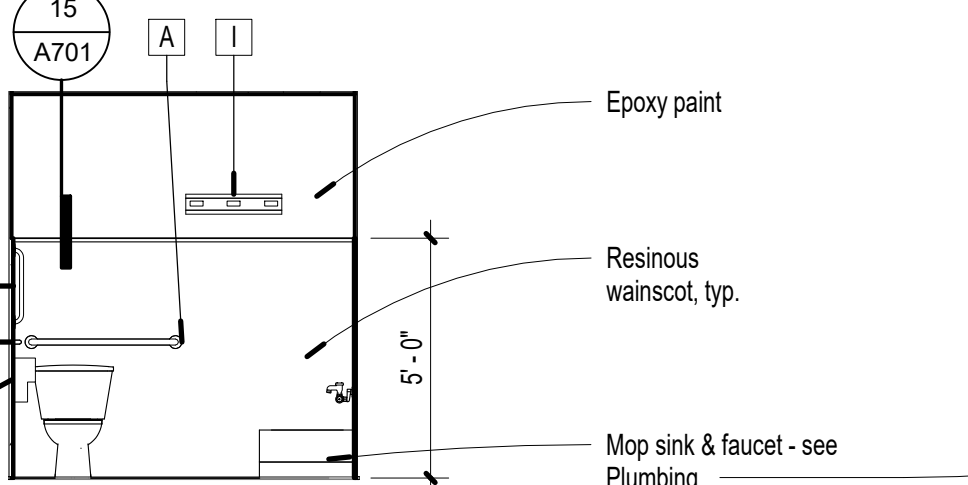
**4 Office Restroom - North Elevation**

1/4" = 1'-0"



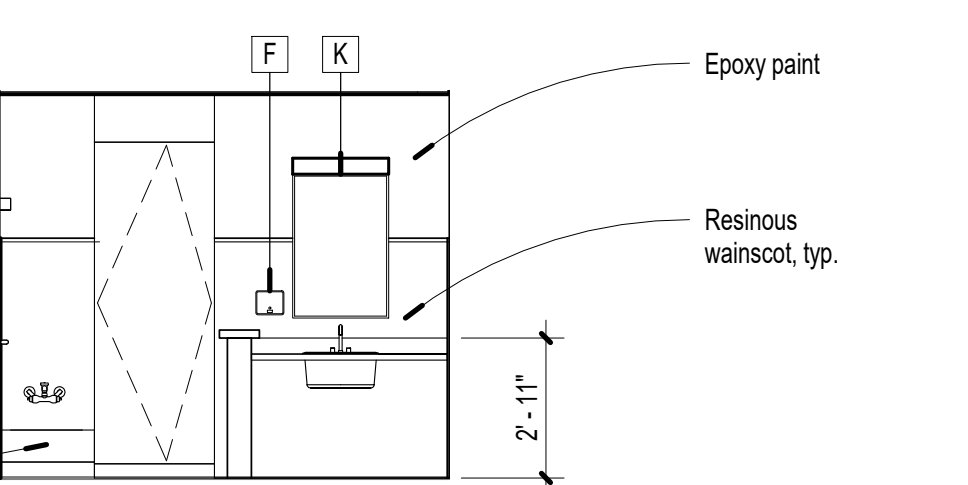
**3 Office Restroom - East Elevation**

1/4" = 1'-0"



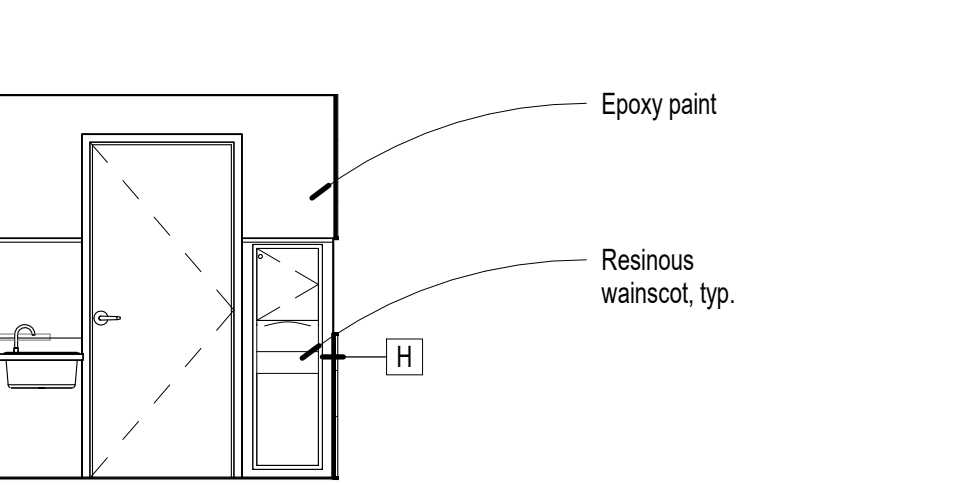
**2 Office Restroom - South Elevation**

1/4" = 1'-0"



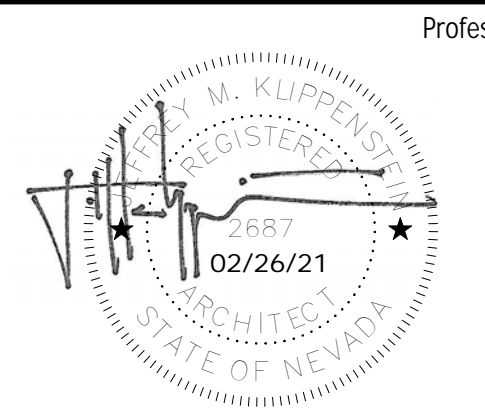
**1 Office Restroom - West Elevation**

1/4" = 1'-0"



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**Sparks Maintenance Administration  
 Toilet Room Renovation**  
 215 S 21st Street  
 Sparks, Nevada 89431

Interior Restroom Elevations, Details and Accessories Schedule  
 February 26, 2021  
 H+K Project No: 2022

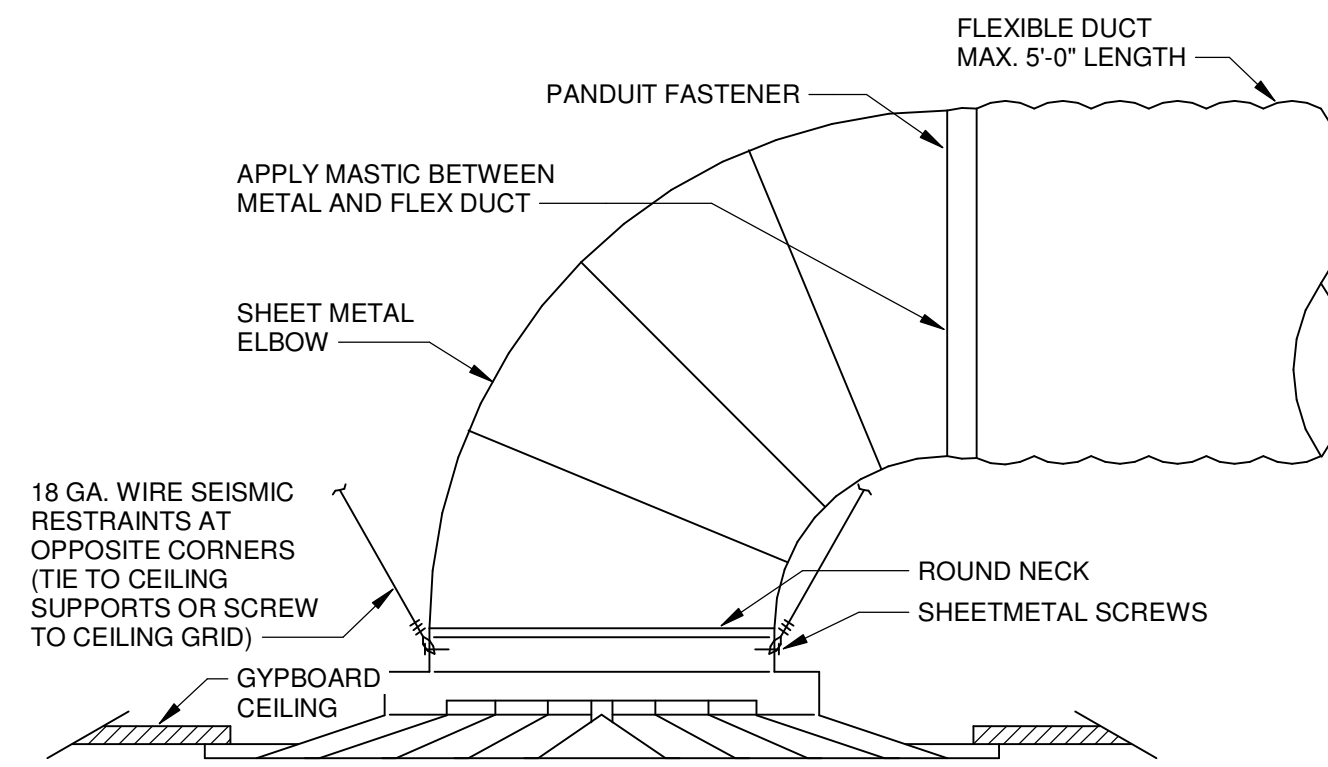
**A701**





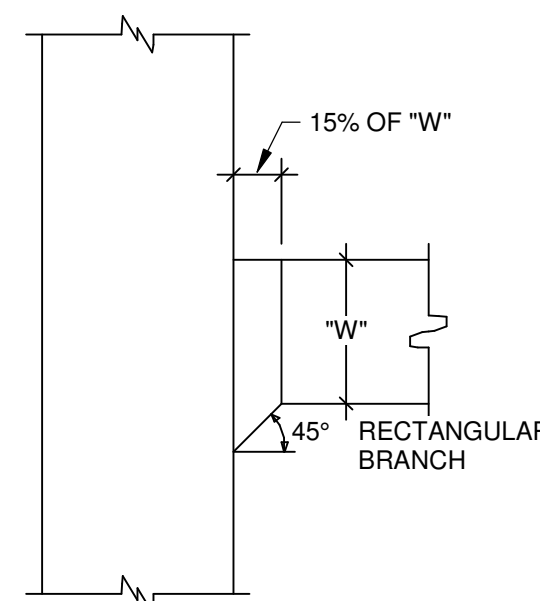
INLET/OUTLET SCHEDULE						
SYMBOL	SERVICE	BORDER	CFM RANGE	NECK SIZE	DESCRIPTION	BASIS OF DESIGN
A	EXHAUST	GYP BOARD	0-125	8x8	SQUARE EGGCRATE GRILLE WITH WHITE FINISH	PRICE MODEL #80, BORDER TYPE F FRAME
			130-180	10x10		
			185-270	12x12		
			275-375	14x14		
			380-480	16x16		
			485-700	18x18		
			705-1100	20x20		

NOTES:  
 1. PROVIDE INLET AND OUTLET SIZES ABOVE UNLESS SIZES ARE SPECIFICALLY NOTED ON PLANS.  
 2. ALL AIR DISTRIBUTION SHALL BE FACTORY WHITE FINISH, UNLESS NOTED OTHERWISE.

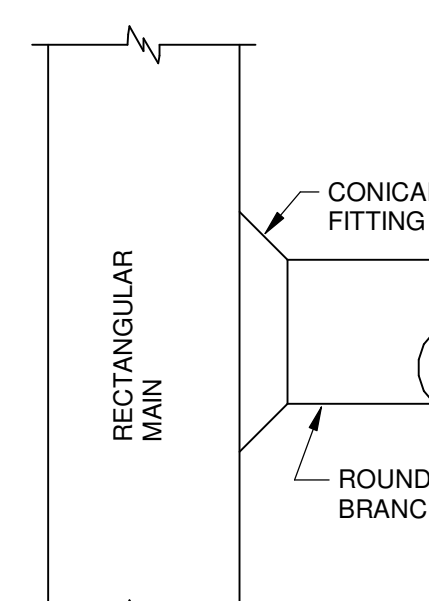


NOTE:  
RETURN AND EXHAUST GRILLES SIMILAR

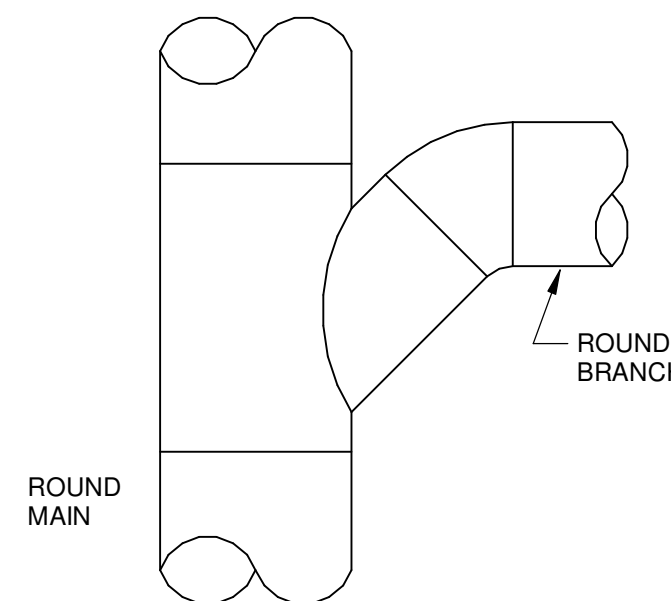
**HARD LID CEILING DIFFUSER** 1  
SCALE: NONE M001



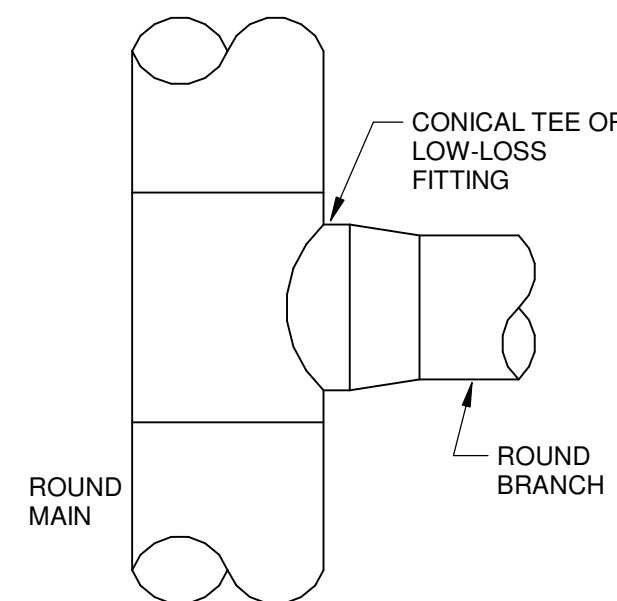
RECTANGULAR / RECTANGULAR



RECTANGULAR / ROUND

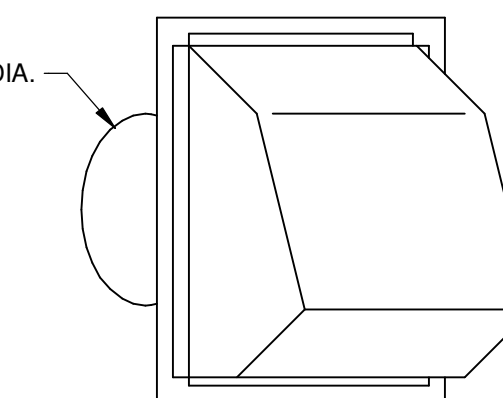


STRAIGHT LATERAL W/ 45°



CONICAL TEE

**TYPICAL BRANCH DUCTS** 2  
SCALE: NONE M001



**WALL CAP** 3  
SCALE: NONE M001

- ### GENERAL NOTES
- ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES, AND INDUSTRY STANDARDS.
  - PIPING SHALL NOT OBSTRUCT ACCESS OR REMOVAL OF MECHANICAL OR ELECTRICAL EQUIPMENT.
  - ALL MATERIALS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.
  - ALL EQUIPMENT, PIPING, DUCTWORK, ETC., SHALL BE SUPPORTED AS REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.
  - COORDINATE EXACT LOCATION OF EQUIPMENT AND ALL PENETRATIONS THROUGH ROOF, FLOORS, AND WALLS WITH STRUCTURAL DRAWINGS PRIOR TO SHOP DRAWING SUBMITTAL.
  - COORDINATE THE ROUTING OF DUCTWORK WITH PLUMBING AND ELECTRICAL SECTIONS PRIOR TO SHOP DRAWING SUBMITTAL.
  - PROVIDE MANUAL VOLUME DAMPER AT EACH RETURN OR EXHAUST BRANCH AND DOWN STREAM TERMINAL UNIT BRANCH SUPPLY DUCT TAKEOFF. FLEXIBLE DUCT LENGTH SHALL NOT EXCEED 5'-0". MVD SHALL BE AS FAR AWAY FROM THE DIFFUSER/GRILLE AS POSSIBLE.
  - SLOPE ALL CONDENSATE DRAINS 1" PER 8'-0".
  - PROVIDE A MINIMUM OF 12" CLEAR BELOW DUCTWORK TO CEILING FOR LIGHT REMOVAL.
  - COORDINATE EXACT SIZE AND LOCATION OF DUCTWORK WITH ALL OTHER TRADES.
  - VERIFY FINAL THERMOSTAT LOCATIONS WITH BUILT-IN CABINETS, DOOR SWINGS, ETC.
  - DO NOT ROUTE ANY PIPING DIRECTLY ABOVE ELECTRICAL EQUIPMENT, SWITCH BOARDS, DISTRIBUTION PANELS, MCC'S, ETC. AS PROHIBITED BY THE NEC.
  - PLANS ARE SCHEMATIC AND ARE INTENDED TO SHOW THE GENERAL NATURE OF THE WORK. IT IS THE CONTRACTOR'S RESPONSIBILITY TO FIELD VERIFY ALL MEASUREMENTS AND CONDITIONS. CONTRACTOR IS RESPONSIBLE FOR COORDINATION WITH OTHER TRADES TO ACCOMPLISH THE INTENT OF THE PROJECT IN A FIRST CLASS MANNER. NOT ALL OFFSETS IN DUCTWORK AND PIPING ARE SHOWN.
  - DO NOT FABRICATE FROM THE DRAWINGS. SPACE ALLOCATION SHALL BE DETERMINED IN THE FIELD AND COORDINATED WITH OTHER TRADES PRIOR TO FABRICATION.
  - DUCT DIMENSIONS SHOWN ON PLANS ARE NET INSIDE DIMENSIONS.

### EXHAUST FAN SCHEDULE

EQUIPMENT HERE-IN CORRECTED FOR 4,500 FOOT ELEVATION

SYMBOL	MFR AND MODEL NO.	CFM	S.P.	V / HZ / PHASE	POWER (HP)	WGT. (LBS)	ACCESSORIES
EF 1	GREENHECK SQ-70-D	150	0.259	115V/60HZ/1φ	1/30	50	1,2,3,4,5,6,7,8

ACCESSORIES:  
 1. CORROSION RESISTANT GALVANIZED STEEL HOUSING  
 2. UL/CUL 705 LISTED  
 3. JUNCTION BOX MOUNTED AND WIRED  
 4. NEMA-1 TOGGLE SWITCH  
 5. ALUMINUM WHEEL  
 6. MOTOR COVER  
 7. 2 INCH HANGING SPRING ISOLATORS AND BRACKETS  
 8. ADJUSTABLE MOUNTING BRACKETS

NOTE:  
OCCUPANCY SENSOR WITHIN EACH RESTROOM STARTS/STOPS EXHAUST FAN. SEE ELECTRICAL SHEETS FOR MORE INFORMATION.

### MECHANICAL LEGEND

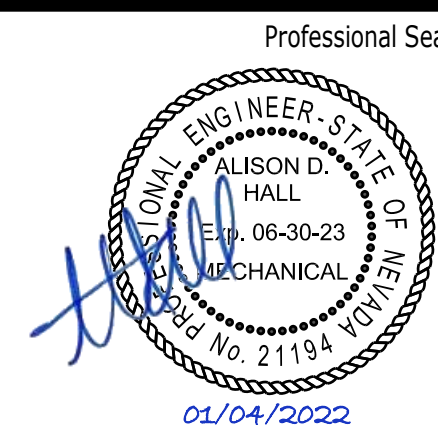
	AIR IN (OUTSIDE AIR OR RETURN AIR, RESPECTIVELY)
	EXHAUST AIR DUCT SECTION
	TRANSFER AIR DUCT SECTION
	DUCT (FIRST FIGURE SIDE SHOWN SECOND FIGURE SIDE NOT SHOWN) TURNING VANES
	MANUAL DAMPER
	ROOM TEMPERATURE SENSOR
	DIAMETER
	ROOM NAME AND NUMBER
AC	AIR CONDITIONING
AD, AP	ACCESS DOOR, ACCESS PANEL
CC	CENTER TO CENTER
CFM, f	CUBIC FEET OF AIR PER MINUTE
ACH	AIR CHANGES PER HOUR
EF	EXHAUST FAN
°F	DEGREES FAHRENHEIT
FA, TB	FROM ABOVE, TO BELOW
FB, TA	FROM BELOW, TO ABOVE
GA	GAUGE
GALV.	GALVANIZED
AAV. / MAV.	AUTOMATIC / MANUAL AIR VENT
MAX., MIN.	MAXIMUM, MINIMUM
M.D.	MANUAL DAMPER
P.D.	PITCH DOWN IN DIRECTION OF ARROW
RA, EA	RETURN AIR, EXHAUST AIR
SA, OSA	SUPPLY AIR, OUTSIDE AIR
TCV	TEMPERATURE CONTROL VALVE
TCP	TEMPERATURE CONTROL PANEL
TYP	TYPICAL
	DUCT STATIC PRESSURE SENSOR
	FLOOR STATIC PRESSURE SENSOR
VCD	VOLUME CONTROL DAMPER
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
N.C.	NORMALLY CLOSED
N.O.	NORMALLY OPEN

### DRAWING SHEET INDEX

M001	MECHANICAL LEGENDS, SCHEDULES, AND NOTES
M010	SPECIFICATIONS
M101	MECHANICAL OVERALL PLAN
M102	MECHANICAL ENLARGED FLOOR PLANS

BIM 3601/2022 Sparks Maintenance Admin Toilet Room Reno/2020-060 Sparks Maintenance Toilet Rooms Renovation - V21.rvt

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MECHANICAL LEGENDS,  
 SCHEDULES, AND  
 NOTES  
 February 26, 2021  
 H+K Project No: 2022  
**M001**



- GENERAL:**
- A. GENERAL CONDITIONS:**
1. THE GENERAL AND SPECIAL CONDITIONS OF THE SPECIFICATIONS APPLY TO ALL WORK OF THIS SECTION. CONSULT THEM IN DETAIL AND ASSUME ALL OBLIGATIONS OR CONDITIONS THEREIN WHICH AFFECT THIS WORK.
- B. SCOPE:**
1. THE WORK INCLUDES LABOR, MATERIALS, TOOLS, EQUIPMENT, AND TRANSPORTATION REQUIRED TO FURNISH AND PROPERLY INSTALL ALL WORK SHOWN ON THE DRAWINGS AND AS HEREINAFTER DESCRIBED, READY FOR SERVICE TO THE ENTIRE SATISFACTION OF THE ARCHITECT/ENGINEER.
- C. CODE RULES AND SAFETY ORDERS FOR MECHANICAL AND ELECTRICAL WORK:**
1. ALL WORK AND MATERIALS SHALL BE IN FULL ACCORDANCE WITH THE LATEST RULES AND REGULATIONS OF THE UPC, UMC, IBC, NEC, THE NEVADA STATE FIRE MARSHAL, THE NATIONAL FIRE PROTECTION ASSOCIATION, AND OTHER APPLICABLE STATE AND/OR LOCAL LAWS AND REGULATIONS. NOTHING IN THESE PLANS OR SPECIFICATIONS SHALL BE CONSTRUED TO PERMIT WORK NOT CONFORMING TO THESE CODES.
  2. WHEN THE CONTRACT DOCUMENTS DIFFER FROM GOVERNING CODES, FURNISH AND INSTALL THE LARGER SIZE, GREATER QUANTITY, OR HIGHER STANDARDS THAN CALLED FOR WITHOUT EXTRA CHARGE.
- D. QUALITY ASSURANCE:**
1. COMPLY WITH APPLICABLE PORTIONS OF THE SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION (SMACNA) GUIDELINES FOR ALL WORK IN THIS SECTION.
  2. COMPLY WITH AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS (ASHRAE) RECOMMENDATIONS, LATEST EDITION, FOR ALL WORK IN THIS SECTION.
  3. COMPLY WITH ANSINFPFA 90A, STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS; AND ANSENFPA 90B, STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS FOR ALL WORK IN THIS SECTION.
- E. DRAWINGS AND COORDINATION:**
1. THE GENERAL ARRANGEMENT AND LOCATION OF PIPING, DUCTWORK, EQUIPMENT, ETC. ARE SHOWN ON THE DRAWINGS OR ARE HEREIN SPECIFIED. INSTALL WORK IN ACCORDANCE THEREWITH, EXCEPT FOR MINOR CHANGES THAT MAY BE NECESSARY ON ACCOUNT OF OTHER WORK. CAREFULLY EXAMINE OTHER WORK THAT MAY CONFLICT WITH THIS WORK. INSTALL THIS WORK IN HARMONY WITH OTHER CRAFTS AND EXISTING WORK. ALL CHANGES SHALL HAVE THE PRIOR APPROVAL OF THE ARCHITECT/ENGINEER.
- F. FEES AND PERMITS:**
1. ARRANGE FOR REQUIRED INSPECTIONS AND PERMITS REQUIRED FOR INSTALLATION OF THE WORK.
  2. COSTS FOR PERMITS REQUIRED WILL BE PAID BY THE OWNER.
- G. MATERIALS:**
1. PROVIDE EACH ITEM LISTED HEREIN AND/OR SHOWN ON THE DRAWINGS OF THE QUALITY NOTED, OR APPROVED EQUAL. ALL MATERIAL SHALL BE NEW, FULL WEIGHT, STANDARD IN ALL RESPECTS, AND IN FIRST CLASS CONDITION, INSOFAR AS POSSIBLE, ALL MATERIALS USED SHALL BE OF THE SAME BRAND OR MANUFACTURER THROUGHOUT FOR EACH CLASS OF MATERIAL OR EQUIPMENT. MATERIALS SHALL BE OF DOMESTIC MANUFACTURE AND SHALL BE TESTED WITHIN THE CONTINENTAL UNITED STATES.
  2. THE GRADE OR QUALITY OF MATERIALS DESIRED IS INDICATED BY THE TRADE NAMES OR CATALOG NUMBERS STATED HEREIN.
  3. DIMENSIONS, SIZES, AND CAPACITIES SHOWN ARE A MINIMUM AND SHALL NOT BE CHANGED WITHOUT THE PERMISSION OF THE ARCHITECT/ENGINEER.
  4. NO MATERIAL INSTALLED AS PART OF THIS WORK SHALL CONTAIN ASBESTOS IN ANY FORM.
- H. MATERIAL LIST AND SUBSTITUTIONS:**
1. EQUIPMENT OR MATERIAL DAMAGED DURING TRANSPORTATION, INSTALLATION, OR OPERATION IS CONSIDERED AS TOTALLY DAMAGED. REPLACE WITH NEW EQUIPMENT. VARIANCE FROM THIS REQUIREMENT WILL BE PERMITTED ONLY WITH WRITTEN CONSENT OF THE ARCHITECT/ENGINEER.
- I. PLACEMENT OF EQUIPMENT AND WORK:**
1. THE PLACEMENT OF EQUIPMENT AND MECHANICAL WORK IN THE LOCATIONS AND SPACES SHOWN ON THE DRAWINGS IS THE CONTRACTOR'S RESPONSIBILITY.
  2. MOVE EQUIPMENT AND/OR WORK INTO SPACES THROUGH OPENINGS PROVIDED OR LOCATED IN THE SPACES DURING CONSTRUCTION, AS REQUIRED.
- J. OPERATING AND MAINTENANCE INSTRUCTIONS:**
1. FURNISH TWO COMPLETE SETS OF OPERATING AND MAINTENANCE INSTRUCTIONS, DESCRIPTIVE LITERATURE, CATALOG CUTS, AND DIAGRAMS COVERING ALL ITEMS OF OPERATION AND MAINTENANCE FOR EACH AND EVERY MECHANICAL SYSTEM AND PIECE OF EQUIPMENT FURNISHED UNDER THESE SPECIFICATIONS. INCLUDE IN EACH SET A COPY OF THE AIR BALANCE TEST REPORT SPECIFIED HEREIN.
  2. BIND AND INDEX EACH SET IN A DURABLE, HARDBOARD BINDER. FINAL OBSERVATION WILL NOT BE MADE UNTIL THE OPERATING AND MAINTENANCE BOOKLETS ARE SUBMITTED AND HAVE BEEN REVIEWED AND APPROVED BY THE ARCHITECT/ENGINEER.
  3. PROVIDE COMPLETE OPERATING MANUALS FOR ALL EQUIPMENT LISTED IN INDIVIDUAL SECTIONS OF THE SPECIFICATIONS.
  4. INCORPORATE COMPLETE OPERATING INSTRUCTIONS INCLUDING STARTING, STOPPING, AND DESCRIPTION OF EMERGENCY MANUAL OPERATION METHODS FOR THE FOLLOWING:
    - A. AIR CONDITIONING AND HEATING SYSTEMS
    - B. TEMPERATURE CONTROL SYSTEMS
    - C. WATER HEATING SYSTEMS
    - D. TESTING AND BALANCING REPORTS
  5. PROVIDE MAINTENANCE INSTRUCTIONS FOR EACH ITEM OF INDIVIDUAL EQUIPMENT COVERING PERTINENT MAINTENANCE DATA, SUCH AS LUBRICANTS TO BE USED, FREQUENCY OF LUBRICATION, INSPECTIONS REQUIRED, ADJUSTMENTS, ETC.
  6. PROVIDE PARTS BULLETINS CONTAINING MANUFACTURER'S BULLETINS WITH PART NUMBERS, INSTRUCTIONS, ETC. FOR EACH ITEM OF EQUIPMENT. STRIP BULLETINS SO THAT USELESS BULK IS AVOIDED.
- K. GUARANTEE:**
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WORK DONE AND MATERIALS INSTALLED UNDER THESE PLANS AND SPECIFICATIONS. REPAIR OR REPLACE, AS MAY BE NECESSARY, ANY DEFECTIVE WORK, MATERIALS, OR PARTS WHICH ARE IDENTIFIED AS DEFECTIVE WITHIN ONE YEAR OF THE DATE OF FILING OF THE NOTICE OF SUBSTANTIAL COMPLETION AND BE RESPONSIBLE FOR DAMAGE TO OTHER MATERIALS, FURNISHINGS, EQUIPMENT OR PREMISES CAUSED BY SUCH DEFECTS DURING THIS PERIOD, IF IN THE OPINION OF THE ENGINEER SAID DEFECT IS DUE TO IMPERFECTION OF MATERIAL OR WORKMANSHIP.
  2. REPAIRS OR REPLACEMENT OF DEFECTIVE WORK SHALL BE PROMPTLY COMPLETED UPON NOTIFICATION BY THE OWNER.
- L. CARE AND CLEANING:**
1. REPAIR OR REPLACE BROKEN, DAMAGED, OR OTHERWISE DEFECTIVE PARTS, MATERIALS, AND WORK. LEAVE THE ENTIRE WORK IN A CONDITION SATISFACTORY TO THE ARCHITECT/ENGINEER. AT COMPLETION, CAREFULLY CLEAN AND ADJUST ALL EQUIPMENT AND TRIM WHICH ARE INSTALLED AS PART OF THIS WORK. LEAVE SYSTEMS AND EQUIPMENT IN A SATISFACTORY OPERATING CONDITION.
  2. CLEAN OUT AND REMOVE SURPLUS MATERIALS AND DEBRIS RESULTING FROM THE WORK.
- M. DRAWINGS AND COORDINATION**
1. EXECUTE ANY WORK OR APPARATUS SHOWN ON THE DRAWINGS AND NOT MENTIONED IN THE SPECIFICATIONS, OR VICE VERSA, THE SAME AS IF SPECIFICALLY MENTIONED BY BOTH. OMISSION FROM DRAWINGS OR SPECIFICATIONS OF ANY MINOR DETAILS OF CONSTRUCTION, INSTALLATION, MATERIALS, OR ESSENTIAL SPECIALTIES DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING SAME IN PLACE COMPLETE.
  2. FURNISH AND INSTALL ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED WHICH CAN REASONABLY BE INFERRED AS PART OF THE WORK AND NECESSARY TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- N. FORMING, CUTTING AND PATCHING**
1. COORDINATE WITH OTHER CONTRACTORS AS NECESSARY TO PROVIDE ANY SPECIAL FORMING, RECESSES, CHASES, ETC. PROVIDE WOOD BLOCKING AND BACKING AS NECESSARY FOR PROPER INSTALLATION OF ALL MECHANICAL WORK.
  2. IF THIS CONTRACTOR FAILS TO COORDINATE WITH OTHER CONTRACTORS AT THE PROPER TIME OR FAILS TO LOCATE ITEMS PROPERLY, RESULTING IN EXTRA WORK, THEN THE CONTRACTOR IS RESPONSIBLE.
- P. OPERATING AND MAINTENANCE INSTRUCTIONS**
1. FURNISH COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS, DESCRIPTIVE LITERATURE, CATALOG CUTS, AND DIAGRAMS COVERING ALL ITEMS OF OPERATION AND MAINTENANCE FOR EACH AND EVERY MECHANICAL SYSTEM AND PIECE OF EQUIPMENT FURNISHED UNDER THESE SPECIFICATIONS. INCLUDE IN EACH SET A COPY OF THE TEST AND BALANCE REPORT SPECIFIED HEREIN.

- HVAC:**
- A. DUCTWORK**
1. RECTANGULAR AND ROUND DUCTWORK SHALL BE GALVANIZED STEEL CONFORMING TO ASTM A03-55T WITH CLASS 'D' COATING, DUCT GAUGES, CONSTRUCTION, AND INSTALLATION SHALL CONFORM WITH THE RECOMMENDATIONS OF THE LATEST SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARDS. ALL INTERIOR EXPOSED DUCTWORK SHALL BE ETCHED FOR PAINTING.
  2. DUCT FITTINGS AND CIRCUMFERENTIAL JOINTS SHALL BE SEALED WITH WATER BASED VINYL ACRYLIC DUCT SEALER EQUAL TO DESIGN POLYMERICS DP1010.
  3. DUCT WRAP: ALL CONCEALED METAL SUPPLY AIR DUCT AND FITTINGS SHALL BE WRAPPED WITH FOIL FACED (FSK) 2" THICK, 3/4 LB DENSITY FIBERGLASS INSULATION. END JOINTS AND LONGITUDINAL JOINTS SHALL BE OVERLAPPED A MINIMUM OF 2 INCHES AND SECURELY STAPLED.
  4. DUCT LINER: SUPPLY AND RETURN AIR DUCTWORK AND WHERE SHOWN ON THE DRAWINGS SHALL BE INTERNALLY LINED WITH FIBERGLASS DUCT LINER HAVING AN EROSION-RESISTANT AND FLAME-RETARDANT NEOPRENE COATING, AND HAVING A MINIMUM THERMAL RESISTANCE OF 0.23 AT 75°F MEAN TEMPERATURE, WITH MINIMUM SOUND ABSORPTION COEFFICIENT OF 0.63 AT 500 CPS BASED ON TEST METHOD ASTM C42366. MINIMUM OF 1/2 INCH THICK, OWENS CORNING DUCT LINER, OR APPROVED EQUAL BY JOHNS MANVILLE. DUCT SIZES ON THE DRAWING ARE NET. INSULATION SHALL COMPLY WITH THE REQUIREMENTS LISTED IN 2018 INTERNATIONAL ENERGY CONSERVATION CODE SECTION C403.11.
  6. SUPPORT INTERIOR DUCTWORK IN ACCORDANCE WITH THE CURRENT SMACNA GUIDELINES.
  7. FLEXIBLE DUCTWORK SHALL BE THERMAFLEX MAKE OR APPROVED EQUAL, CONFORMING TO UL181 CLASS 1 REQUIREMENTS. SECURE WITH PANDUIT FASTENERS.
- B. AIR BALANCE**
1. THE AIR BALANCE SCOPE OF WORK SHALL BE PERFORMED BY AN ABC CERTIFIED AIR BALANCE CONTRACTOR: RAGLEN SYSTEM BALANCE OR RS ANALYSIS, NO EXCEPTIONS.
  2. SET ALL VOLUME DAMPERS AND BALANCE SYSTEMS SUCH THAT THE VOLUME INDICATED ON THE DRAWINGS IS BEING DELIVERED. A WRITTEN REPORT SHOWING 'KA' FACTORS, FPM, AND CFM FOR EACH GRILLE, REGISTER, CEILING DIFFUSER, AND THE TOTAL AIR VOLUME, EXTERNAL STATIC PRESSURE, RPM, AND BHP FOR EACH AIR HANDLING UNIT IS TO BE PREPARED AND SUBMITTED TO THE ENGINEER FOR REVIEW AND APPROVAL UPON COMPLETION OF THE TESTING AND BALANCING.
  3. INSTALL ANY DAMPERS, BAFFLES, AND SHEAVES NECESSARY TO AS NECESSARY.



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JOB: 2020-060

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## Sparks Maintenance Administration Toilet Room Renovation

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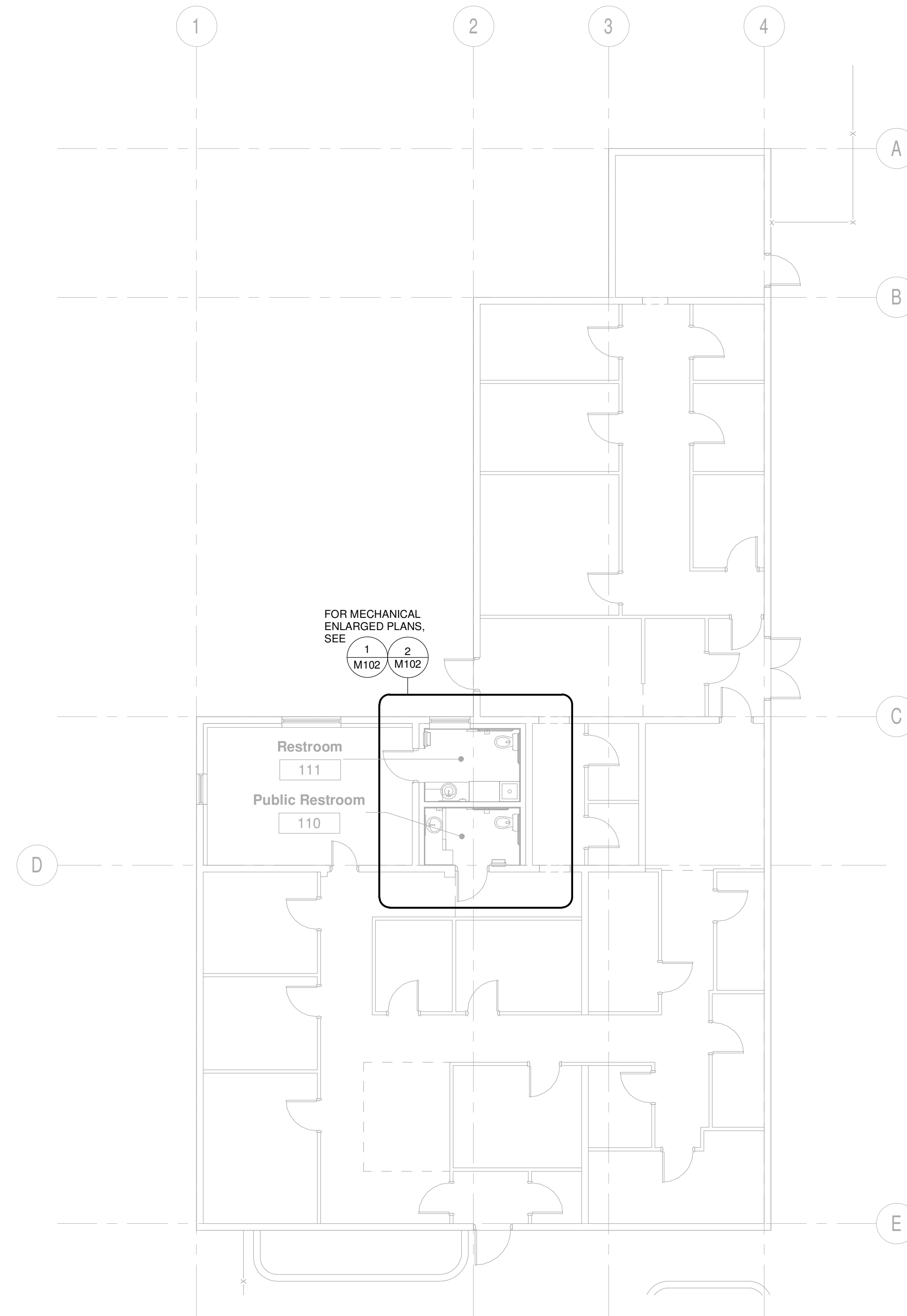
SPECIFICATIONS

February 26, 2021  
H+K Project No: 2022

# M010



BIM 360/2022 Sparks Maintenance Admin Toilet Room Reno/2020-060 Sparks Maintenance Toilet Rooms Renovation - V21.rvt



**MECHANICAL OVERALL PLAN** 1  
 SCALE: 1/8" = 1'-0" M101 N

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 Toilet Room Renovation**

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MECHANICAL OVERALL PLAN

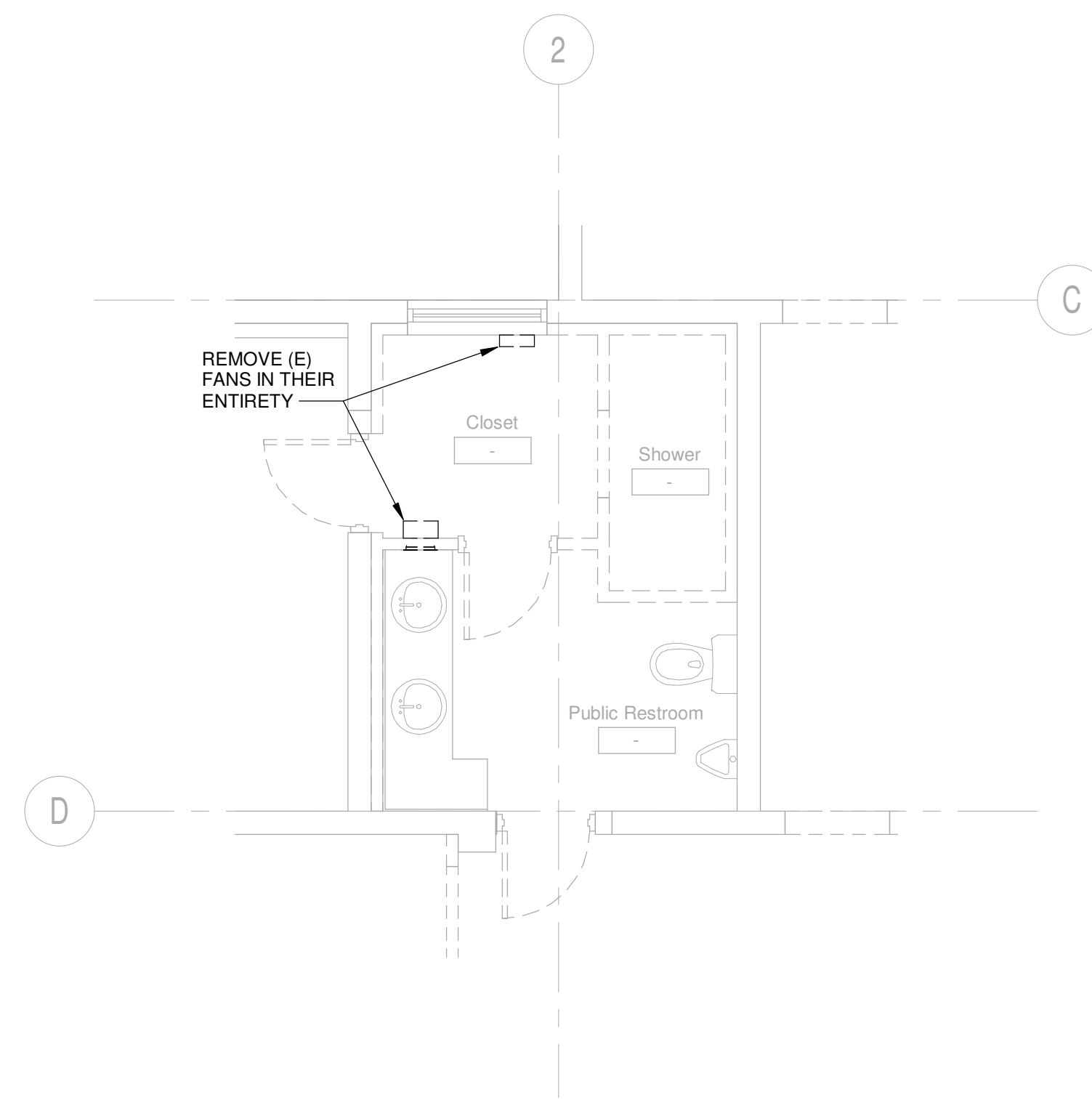
February 26, 2021  
 H+K Project No: 2022

**M101**

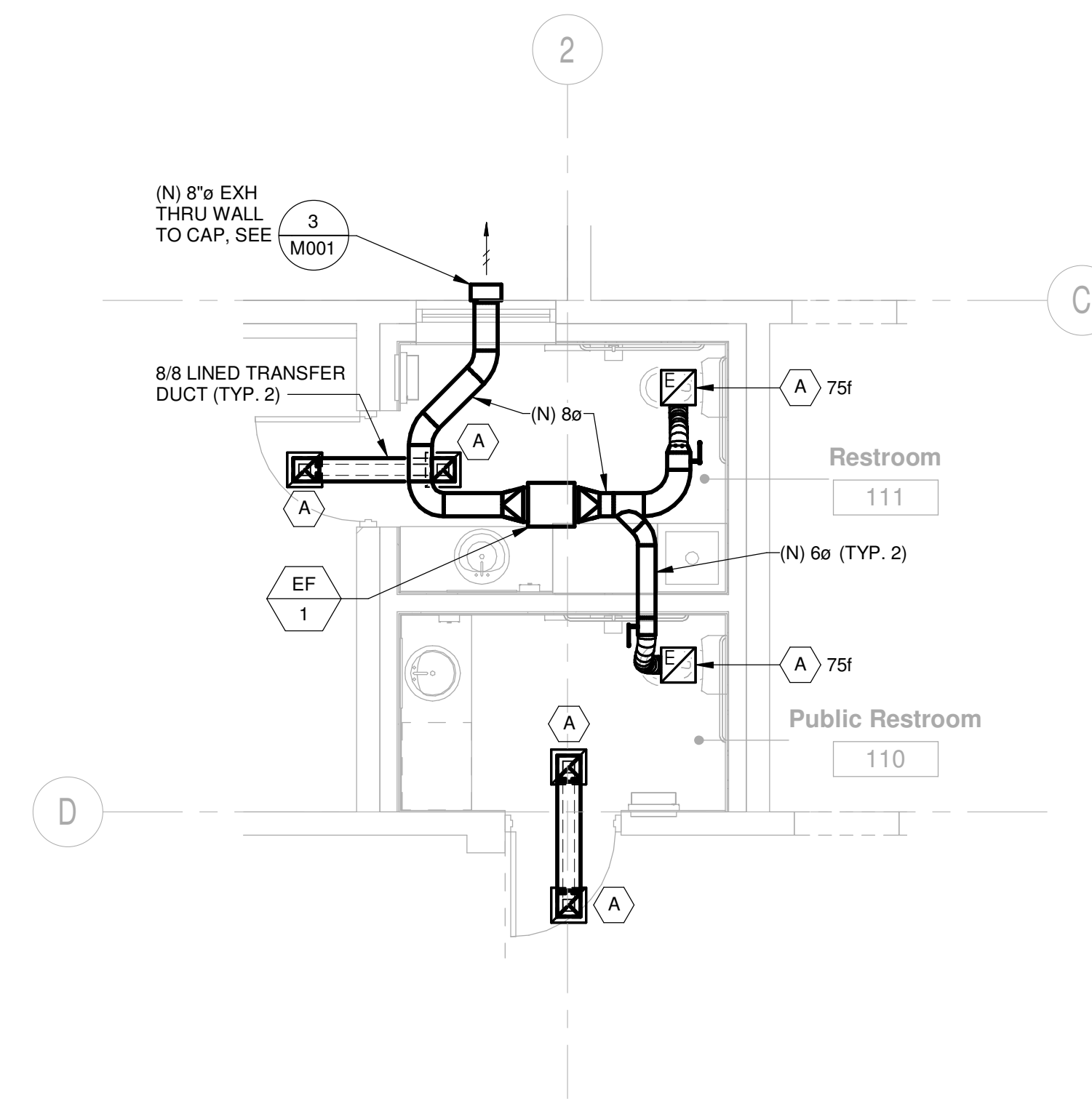


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**MECHANICAL DEMO FLOOR PLAN** 1  
 SCALE: 1/4" = 1'-0" M102 N



**MECHANICAL NEW FLOOR PLAN** 2  
 SCALE: 1/4" = 1'-0" M102 N

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MECHANICAL  
ENLARGED FLOOR  
PLANS

February 26, 2021  
H+K Project No: 2022

**M102**



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### GENERAL NOTES

- ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES, AND INDUSTRY STANDARDS.
- ALL PIPING SHALL NOT OBSTRUCT ACCESS OR REMOVAL OF MECHANICAL EQUIPMENT.
- ALL WATER PIPING IN EXTERIOR WALLS SHALL BE INSULATED AND INSTALLED INSIDE THE BUILDING INSULATION.
- ALL EQUIPMENT, PIPING, DUCTWORK, ETC., SHALL BE SUPPORTED AS REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.
- SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES TO MEET ADA REQUIREMENTS.
- ADA WATER CLOSETS SHALL HAVE WATER ROUGH-IN LOCATED TO PROVIDE FLUSH VALVE HANDLE FACING WIDE SIDE OF ENCLOSURE.
- ALL SEWER AND WASTE SHALL BE SLOPED AT 1/4" = 1'-0".
- PROVIDE WALL CLEANOUTS FOR ALL SINKS AND URINALS.
- COORDINATE EXACT LOCATION OF EQUIPMENT AND PENETRATIONS THROUGH ROOF, FLOORS AND WALLS WITH STRUCTURAL DRAWINGS PRIOR TO ANY ROUGH-IN.
- COORDINATE THE ROUTING OF DUCTWORK WITH PLUMBING AND ELECTRICAL SECTIONS PRIOR TO BEGINNING WORK.
- ALL ROOF PENETRATIONS SHALL BE FLASHED AND COUNTER FLASHED WATER TIGHT.
- ALL MATERIALS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
- PROVIDE ALL PLUMBING FIXTURES AND EQUIPMENT WITH ACCESSIBLE STOPS.
- COORDINATE CLEANOUT LOCATIONS WITH ALL TRADES. PROVIDE SIZES AND TYPE TO SUIT FLOORING AS SPECIFIED.
- ALL FLOOR DRAIN LOCATIONS SHALL BE AS PER DIMENSIONED ARCHITECTURAL DRAWINGS.

### PLUMBING FIXTURE SCHEDULE

SYMBOL	DESCRIPTION
WC-1	WATER CLOSET "AMERICAN STANDARD" MODEL 3517A, 101 FLOOR MOUNTED RIGHT HEIGHT VITREOUS CHINA FLUSH TANK TOILET WITH ELONGATED BOWL. FURNISH WITH CENTOCO SEAT #500.
L-1	LAVATORY AMERICAN STANDARD MODEL #0491.019 "RONDALYN" VITREOUS CHINA COUNTERTOP LAVATORY. FURNISH WITH CHICAGO FAUCETS MODEL #802-E70XKABCP MANUAL FAUCET WITH 0.5 GPM FLOW, GRID STRAINER, 17 GAUGE CHROME PLATED P-TRAP, AND McQUIRE ANGLE STOPS. INSULATE HOT AND COLD WATER PIPING AND WASTE PIPING BELOW FIXTURE WITH "TRUE-BRO" LAV GUARD PROTECTIVE MOLDED CLOSED CELL VINYL PIPE COVERS.
SS-1	SERVICE SINK CECO MODEL #871 CORNER SERVICE SINK 28"x28" ENAMELED CAST IRON WITH CHROME FLAT STRAINER AND RIM GUARDS. FURNISH WITH CHICAGO MODEL 897-CP FAUCET WITH VACUUM BREAKER AND WALL SUPPORT.
TG-1	TRAP GUARD ZURN MODEL #Z1072-4 ZSHIELD BARRIER TRAP SEAL DEVICE. IAPMO AND ASSE LISTED. SEE DRAWINGS FOR SIZES
FD-1	FLOOR DRAIN ZURN MODEL #Z415 WITH TYPE "B" NICKEL BRONZE STRAINER AND BOTTOM OUTLET. FURNISH WITH CAST TRAP AND TRAP PRIMER CONNECTION WHERE SHOWN. SIZE AS SHOWN ON DRAWINGS.

### PLUMBING FIXTURE CONNECTION SCHEDULE

FIXTURE	SYMBOL	WASTE		VENT	COLD WATER		HOT WATER	
		BRANCH	OUTLET		BRANCH	OUTLET	BRANCH	OUTLET
WATER CLOSET	WC	4"	4"	2"	1"	1/2"	-	-
LAVATORY	L	2"	1 1/2"	1 1/2"	1/2"	1/2"	1/2"	1/2"
SERVICE SINK	SS	3"	3"	2"	1/2"	1/2"	1/2"	1/2"
FLOOR DRAIN	FD	2"	2"	2"	-	-	-	-

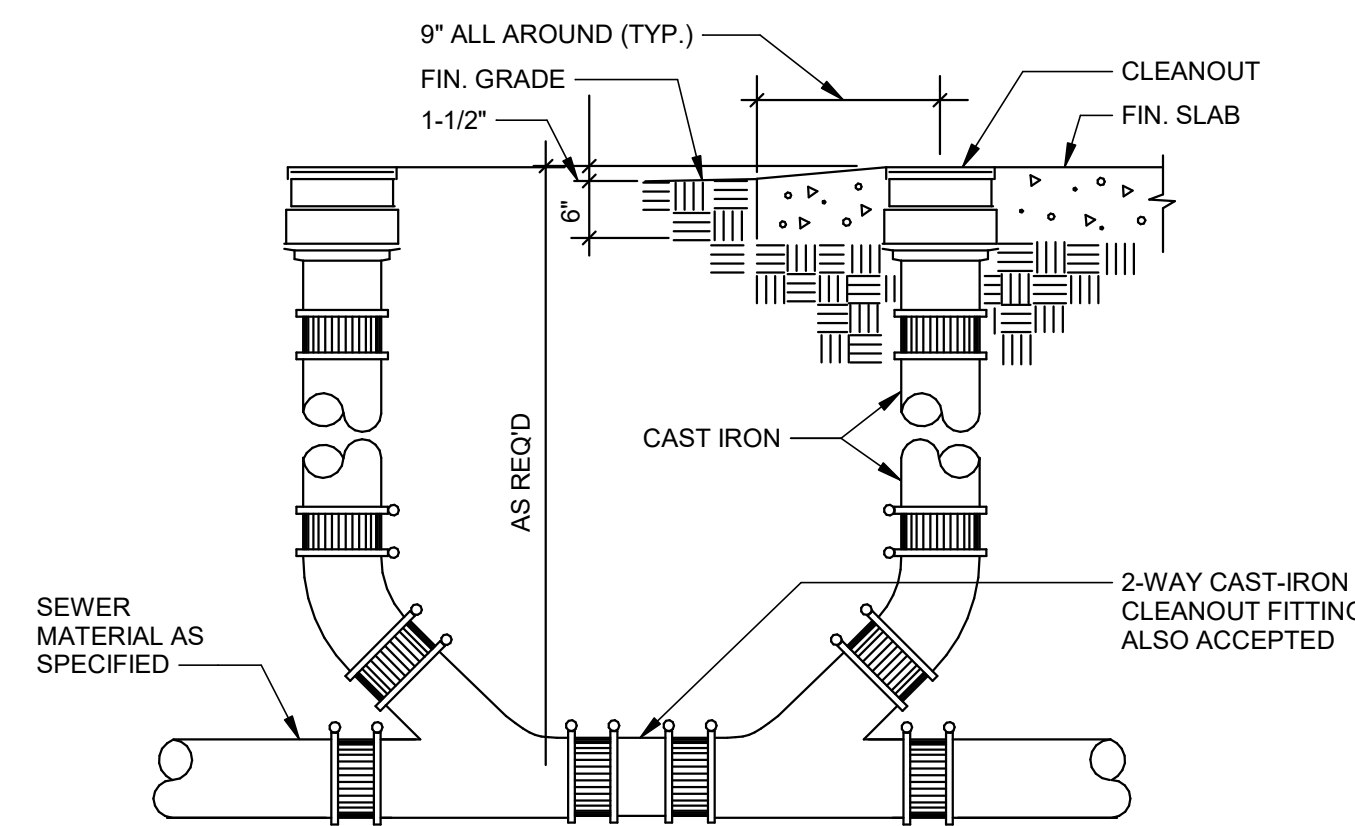
NOTES 1. WATER BRANCH LINES WHERE LESS THAN 10'-0" LONG MAY BE SAME SIZE AS OUTLETS SCHEDULED ABOVE.

### PLUMBING LEGEND

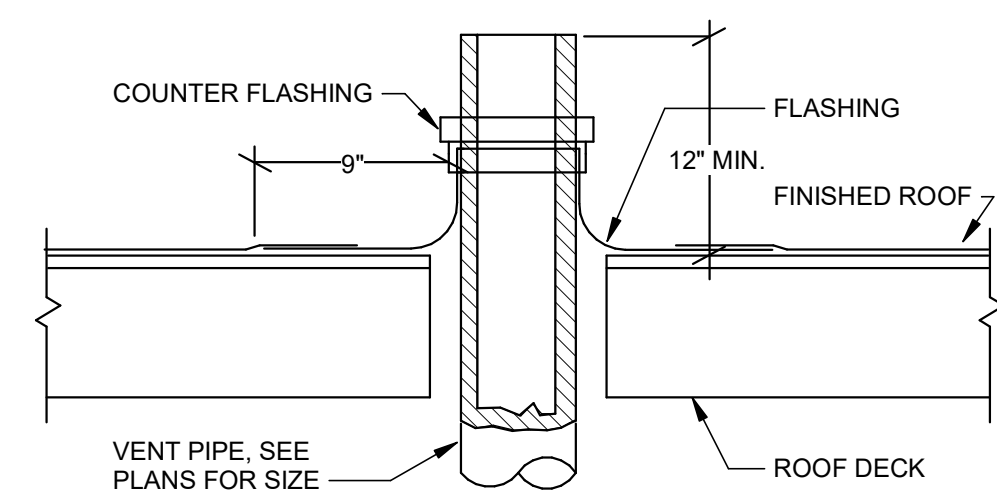
	SOIL OR WASTE LINE BELOW GRADE
	SOIL OR WASTE LINE ABOVE GRADE
	COLD WATER LINE
	HOT WATER LINE
	VENT LINE
	BALL VALVE
	BALANCE VALVE
	CHECK VALVE
	LEVER HANDLE GAS COCK
	THERMOMETER
	UNION
	TEMPERATURE AND PRESSURE RELIEF LINE
	ABOVE CEILING
	UNDER FLOOR
	UNDER COUNTER
	CLEANOUT TO FLOOR
	CLEANOUT TO GRADE
	CLEANOUT, WALL CLEANOUT, FLOOR CLEANOUT
	COLD WATER (DROP) (RISER)
	HOT WATER (DROP) (RISER)
	WASTE, WASTE DROP
	FROM ABOVE, TO BELOW
	FROM BELOW, TO ABOVE
	INVERT ELEVATION
	VENT, VENT RISER, VENT THRU ROOF
	DIAMETER
	TYPICAL
	REFERENCE
	FLOOR DRAIN
	DEMAND
	FIXTURE UNITS
	GALLONS PER MINUTE
	ROUGH IN ONLY
	UNLESS NOTED OTHERWISE
	NORMALLY CLOSED
	ON CENTER
	ABOVE FINISH FLOOR
	ABOVE FINISHED GRADE
	ROOM NAME AND NUMBER
	LINEAR FEET
	ABOVE
	DOWN

### DRAWING SHEET INDEX

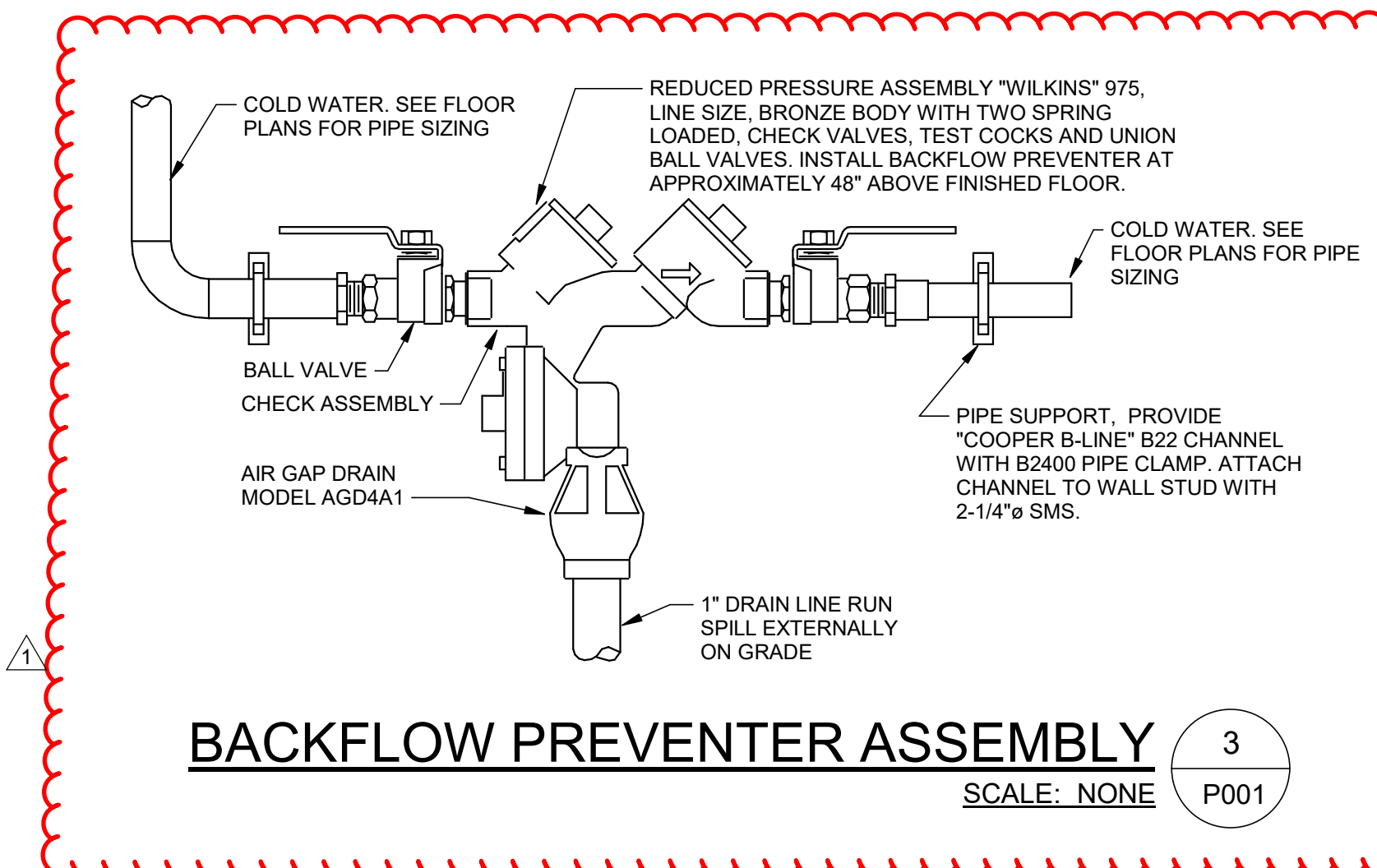
P001	PLUMBING LEGENDS, SCHEDULES, AND NOTES
P002	SPECIFICATIONS
P101	PLUMBING OVERALL PLAN
P102	PLUMBING ENLARGED FLOOR PLANS



**2-WAY CLEANOUT AT GRADE** 1  
SCALE: NONE P001



**VENT THRU ROOF DETAIL** 2  
SCALE: NONE P001



**BACKFLOW PREVENTER ASSEMBLY** 3  
SCALE: NONE P001



Date	Revision
1/27/22	Plan Review #1



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PLUMBING LEGENDS,  
SCHEDULES, AND  
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**P001**



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  2. WHEN THE CONTRACT DOCUMENTS DIFFER FROM GOVERNING CODES, FURNISH AND INSTALL THE LARGER SIZE, GREATER QUANTITY, OR HIGHER STANDARDS THAN CALLED FOR WITHOUT EXTRA CHARGE.
- D. QUALITY ASSURANCE:**
1. COMPLY WITH APPLICABLE PORTIONS OF THE SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION (SMACNA) GUIDELINES FOR ALL WORK IN THIS SECTION.
  2. COMPLY WITH AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS (ASHRAE) RECOMMENDATIONS, LATEST EDITION, FOR ALL WORK IN THIS SECTION.
  3. COMPLY WITH ANSINFPA 90A, STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS; AND ANSENFPA 90B, STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS FOR ALL WORK IN THIS SECTION.
- E. DRAWINGS AND COORDINATION:**
1. THE GENERAL ARRANGEMENT AND LOCATION OF PIPING, DUCTWORK, EQUIPMENT, ETC. ARE SHOWN ON THE DRAWINGS OR ARE HEREIN SPECIFIED. INSTALL WORK IN ACCORDANCE THEREWITH, EXCEPT FOR MINOR CHANGES THAT MAY BE NECESSARY ON ACCOUNT OF OTHER WORK. CAREFULLY EXAMINE OTHER WORK THAT MAY CONFLICT WITH THIS WORK. INSTALL THIS WORK IN HARMONY WITH OTHER CRAFTS AND EXISTING WORK. ALL CHANGES SHALL HAVE THE PRIOR APPROVAL OF THE ARCHITECT/ENGINEER.
- F. FEES AND PERMITS:**
1. ARRANGE FOR REQUIRED INSPECTIONS AND PERMITS REQUIRED FOR INSTALLATION OF THE WORK.
  2. COSTS FOR PERMITS REQUIRED WILL BE PAID BY THE OWNER.
- G. MATERIALS:**
1. PROVIDE EACH ITEM LISTED HEREIN AND/OR SHOWN ON THE DRAWINGS OF THE QUALITY NOTED, OR APPROVED EQUAL. ALL MATERIAL SHALL BE NEW, FULL WEIGHT, STANDARD IN ALL RESPECTS, AND IN FIRST CLASS CONDITION, INSOFAR AS POSSIBLE. ALL MATERIALS USED SHALL BE OF THE SAME BRAND OR MANUFACTURER THROUGHOUT FOR EACH CLASS OF MATERIAL OR EQUIPMENT. MATERIALS SHALL BE OF DOMESTIC MANUFACTURE AND SHALL BE TESTED WITHIN THE CONTINENTAL UNITED STATES.
  2. THE GRADE OR QUALITY OF MATERIALS DESIRED IS INDICATED BY THE TRADE NAMES OR CATALOG NUMBERS STATED HEREIN.
  3. DIMENSIONS, SIZES, AND CAPACITIES SHOWN ARE A MINIMUM AND SHALL NOT BE CHANGED WITHOUT THE PERMISSION OF THE ARCHITECT/ENGINEER.
  4. NO MATERIAL INSTALLED AS PART OF THIS WORK SHALL CONTAIN ASBESTOS IN ANY FORM.
- H. MATERIAL LIST AND SUBSTITUTIONS:**
1. EQUIPMENT OR MATERIAL DAMAGED DURING TRANSPORTATION, INSTALLATION, OR OPERATION IS CONSIDERED AS TOTALLY DAMAGED. REPLACE WITH NEW EQUIPMENT. VARIANCE FROM THIS REQUIREMENT WILL BE PERMITTED ONLY WITH WRITTEN CONSENT OF THE ARCHITECT/ENGINEER.
- I. PLACEMENT OF EQUIPMENT AND WORK:**
1. THE PLACEMENT OF EQUIPMENT AND MECHANICAL WORK IN THE LOCATIONS AND SPACES SHOWN ON THE DRAWINGS IS THE CONTRACTOR'S RESPONSIBILITY.
  2. MOVE EQUIPMENT AND/OR WORK INTO SPACES THROUGH OPENINGS PROVIDED OR LOCATED IN THE SPACES DURING CONSTRUCTION, AS REQUIRED.
- K. GUARANTEE:**
1. THE CONTRACTOR SHALL BE RESPONSIBLE FOR WORK DONE AND MATERIALS INSTALLED UNDER THESE PLANS AND SPECIFICATIONS. REPAIR OR REPLACE, AS MAY BE NECESSARY, ANY DEFECTIVE WORK, MATERIALS, OR PARTS WHICH ARE IDENTIFIED AS DEFECTIVE WITHIN ONE YEAR OF THE DATE OF FILING OF THE NOTICE OF SUBSTANTIAL COMPLETION AND BE RESPONSIBLE FOR DAMAGE TO OTHER MATERIALS, FURNISHINGS, EQUIPMENT OR PREMISES CAUSED BY SUCH DEFECTS DURING THIS PERIOD, IF IN THE OPINION OF THE ENGINEER SAID DEFECT IS DUE TO IMPERFECTION OF MATERIAL OR WORKMANSHIP.
  2. REPAIRS OR REPLACEMENT OF DEFECTIVE WORK SHALL BE PROMPTLY COMPLETED UPON NOTIFICATION BY THE OWNER.
- L. CARE AND CLEANING:**
1. REPAIR OR REPLACE BROKEN, DAMAGED, OR OTHERWISE DEFECTIVE PARTS, MATERIALS, AND WORK. LEAVE THE ENTIRE WORK IN A CONDITION SATISFACTORY TO THE ARCHITECT/ENGINEER. AT COMPLETION, CAREFULLY CLEAN AND ADJUST ALL EQUIPMENT AND TRIM WHICH ARE INSTALLED AS PART OF THIS WORK. LEAVE SYSTEMS AND EQUIPMENT IN A SATISFACTORY OPERATING CONDITION.
  2. CLEAN OUT AND REMOVE SURPLUS MATERIALS AND DEBRIS RESULTING FROM THE WORK.
- M. DRAWINGS AND COORDINATION**
1. EXECUTE ANY WORK OR APPARATUS SHOWN ON THE DRAWINGS AND NOT MENTIONED IN THE SPECIFICATIONS, OR VICE VERSA, THE SAME AS IF SPECIFICALLY MENTIONED BY BOTH. OMISSION FROM DRAWINGS OR SPECIFICATIONS OF ANY MINOR DETAILS OF CONSTRUCTION, INSTALLATION, MATERIALS, OR ESSENTIAL SPECIALTIES DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING SAME IN PLACE COMPLETE.
  2. FURNISH AND INSTALL ANY INCIDENTAL WORK NOT SHOWN OR SPECIFIED WHICH CAN REASONABLY BE INFERRED AS PART OF THE WORK AND NECESSARY TO PROVIDE A COMPLETE AND OPERATIONAL SYSTEM.
- N. FORMING, CUTTING AND PATCHING**
1. COORDINATE WITH OTHER CONTRACTORS AS NECESSARY TO PROVIDE ANY SPECIAL FORMING, RECESSES, CHASES, ETC. PROVIDE WOOD BLOCKING AND BACKING AS NECESSARY FOR PROPER INSTALLATION OF ALL MECHANICAL WORK.
  2. IF THIS CONTRACTOR FAILS TO COORDINATE WITH OTHER CONTRACTORS AT THE PROPER TIME OR FAILS TO LOCATE ITEMS PROPERLY, RESULTING IN EXTRA WORK, THEN THE CONTRACTOR IS RESPONSIBLE.
- P. OPERATING AND MAINTENANCE INSTRUCTIONS**
1. FURNISH COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS, DESCRIPTIVE LITERATURE, CATALOG CUTS, AND DIAGRAMS COVERING ALL ITEMS OF OPERATION AND MAINTENANCE FOR EACH AND EVERY MECHANICAL SYSTEM AND PIECE OF EQUIPMENT FURNISHED UNDER THESE SPECIFICATIONS. INCLUDE IN EACH SET A COPY OF THE TEST AND BALANCE REPORT SPECIFIED HEREIN.

- PLUMBING:**
- A. PIPING:**
1. WASTE AND VENT PIPING AND RAINWATER LEADERS SHALL BE STANDARD WEIGHT CAST IRON WITH NO-HUB STAINLESS STEEL BANDS AND NEOPRENE COLLARS CONFORMING TO CISPI 301 AND 310.
  2. WATER PIPING INSIDE THE BUILDING SHALL BE TYPE L' HARD DRAWN COPPER TUBING WITH WROUGHT COPPER FITTINGS. SOLDER TO BE 95.5 TIN-ANTIMONY.
  3. SEWER ON SITE TO A POINT WITHIN 5 FEET OF THE BUILDING SHALL BE JOHNS MANVILLE SDR35 PVC SEWER PIPE AND FITTINGS.
  4. JM RING-TITE PVC PIPE CONFORMING ASTM D2241. PIPE RATING SDR21 (200PSI) RUBBER SEALING RINGS CONFORMING TO ASTM D1869 AND F477.
- B. VALVES:**
1. BALL VALVES: THREE PIECE, FULL PORT, BRONZE BODY, BLOW-OUT PROOF STEM, SCREWED OR SOLDERED JOINT, LEAD-FREE.
- C. CLEANOUTS:**
1. PROVIDE AND INSTALL CLEANOUTS WHERE REQUIRED AND AT ALL BENDS, ANGLES AND UPPER TERMINALS. ALL CLEANOUTS SHALL BE ACCESSIBLE, AND SHALL BE THE SAME SIZE AS PIPE SERVED.
  2. ALL CLEANOUTS SHALL BE CAST IRON CLEANOUT TEE WITH CAST BRONZE COUNTER SINK PLUG COMPLETE WITH A ROUND, STAINLESS STEEL ACCESS COVER WITH SECURING SCREW. APPROVED TYPES ARE: ZURN Z-1440-1 OR Z-1460-1, WADE Z-8550-S OR W-69470-R, AND SMITH 4402 OR 4477.
  3. INTERIOR CLEANOUTS IN FINISHED FLOORS SHALL BE ADJUSTABLE TO FLOOR LEVEL AFTER THE SLAB HAS BEEN POURED AND SET WITH SQUARE SCORAIATED TOP OF NICKEL BRONZE, VANDAL-PROOF SCREWS, CAST BRASS CLEANOUT PLUG. APPROVED TYPES ARE ZURN 1400-2, WADE W-7000, AND SMITH 4020.
- D. TEST:**
1. TEST PIPING AT COMPLETION OF ROUGH-IN, IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:
- | UTILITY     | PRESSURE         | TEST MEDIUM | DURATION |
|-------------|------------------|-------------|----------|
| WASTE, VENT | HIGHEST VENT PT. | WATER       | 8 HOURS  |
| WATER       | 125 PSI          | WATER       | 8 HOURS  |
- E. PIPE INSULATION:**
1. INSULATION SHALL BE FURNISHED AND INSTALLED BY A FIRM WITH AT LEAST 5 YEARS SUCCESSFUL INSTALLATION EXPERIENCE AND IN STRICT ACCORDANCE WITH BEST TRADE PRACTICES. WHERE INSPECTION OF WORK INDICATES THAT THE SPECIFICATION IS NOT BEING COMPLIED WITH, THE ENTIRE SECTION SHALL BE REMOVED AND REINSTALLED AS SPECIFIED.
  2. INSULATION SHALL COMPLY WITH THE REQUIREMENTS LISTED IN 2018 INTERNATIONAL ENERGY CONSERVATION CODE TABLE C403.11.3.
  3. INSULATION SHALL BE APPLIED TO CLEAN, DRY SURFACES ONLY, AND AFTER TESTING TO ENSURE TIGHTNESS.
  4. INSULATE HOT WATER WITH 1/2 INCH THICK FIBERGLASS INSULATION OWENS CORNING FIBERGLASS 25 ASJSSL OR APPROVED EQUAL BY JOHNS MANVILLE. FINISHED WITH FACTORY-APPLIED FIRE RETARDANT VAPOR BARRIER JACKET STAPLED IN PLACE PER THE MANUFACTURER'S RECOMMENDATIONS. FITTINGS SHALL BE INSULATED WITH 3/4 LB FIBERGLASS AND ZESTON PRE-MOLDED INSULATED COVERING SECURED WITH STANDARD FASTENERS. INSTALL A SEGMENT OF RIGID INSULATION AT EACH PIPE HANGER.
- F. PIPE INSTALLATION:**
1. UNIONS ARE TO BE PROVIDED WHERE NECESSARY FOR PROPER SERVICING OF VALVES, PIPING, AND EQUIPMENT.
  2. DIELECTRIC PIPE UNIONS SHALL BE UTILIZED IN CONNECTIONS BETWEEN DISSIMILAR METAL PIPING.
  3. PIPING SUBJECT TO EXPANSION AND/OR CONTRACTION SHALL BE ANCHORED IN A MANNER PERMITTING THE STRAINS TO BE EVENLY DISTRIBUTED AND ALLEVIATED BY SWING JOINTS OR EXPANSION LOOPS.
  4. HANGERS AND SUPPORTS SHALL BE DESIGNED TO SUPPORT THE COMBINED WEIGHT OF THE PIPE, THE FLUID, AND INSULATION. HANGERS AND SUPPORTS SHALL HAVE A MINIMUM FACTOR OF SAFETY OF FIVE BASED ON THE ULTIMATE TENSILE STRENGTH OF THE MATERIAL USED.
  5. EACH PIPING SYSTEM FURNISHED AND INSTALLED UNDER THIS WORK SHALL BE IDENTIFIED AND THE DIRECTION OF FLOW INDICATED BY MEANS OF PREFABRICATED COILED PLASTIC LABELS. LABELS SHALL COMPLY WITH ASME A13.1 WITH REGARD TO COLOR, LETTER HEIGHT, AND MARKER SIZE. LABELS SHALL HAVE BLACK OR WHITE LETTERING AND FLOW ARROWS ON COLORED BACKGROUNDS AND SHALL NOT REQUIRE ADHESIVE.
- G. STERILIZATION OF WATER LINES:**
1. ALL DOMESTIC COLD AND HOT WATER PIPING SHALL BE FLUSHED CLEAN BEFORE INSTALLATION AND THOROUGHLY FLUSHED AND DRAINED AFTER INSTALLATION. ACCOMPLISH STERILIZATION BY OPENING TAPS AT ENDS OF ALL BRANCHES AND INJECTING A SOLUTION OF LIQUID CHLORINE OR SODIUM HYPOCHLORITE AND WATER CONTAINING NOT LESS THAN 50 PPM OF FREE CHLORINE INTO THE SYSTEM NEAR THE SOURCE MAIN. DURING THIS PROCEDURE, OPERATE ALL VALVES AND OUTLETS AND TEST FOR RESIDUAL CHLORINE. LET STAND FOR 24 HOURS MINIMUM, THEN DRAIN AND THOROUGHLY FLUSH UNTIL ALL TRACES OF CHLORINE HAVE BEEN REMOVED (LESS THAN 0.2 PPM) IN ACCORDANCE WITH SECTION 3 OF THE STATE OF NEVADA DIVISION OF HEALTH, WATER SUPPLY REGULATIONS. APPROVAL OF THE STATE HEALTH DIVISION SHALL BE OBTAINED PRIOR TO PLACING THE SYSTEM IN SERVICE.



△	Date	Revision

Consultant



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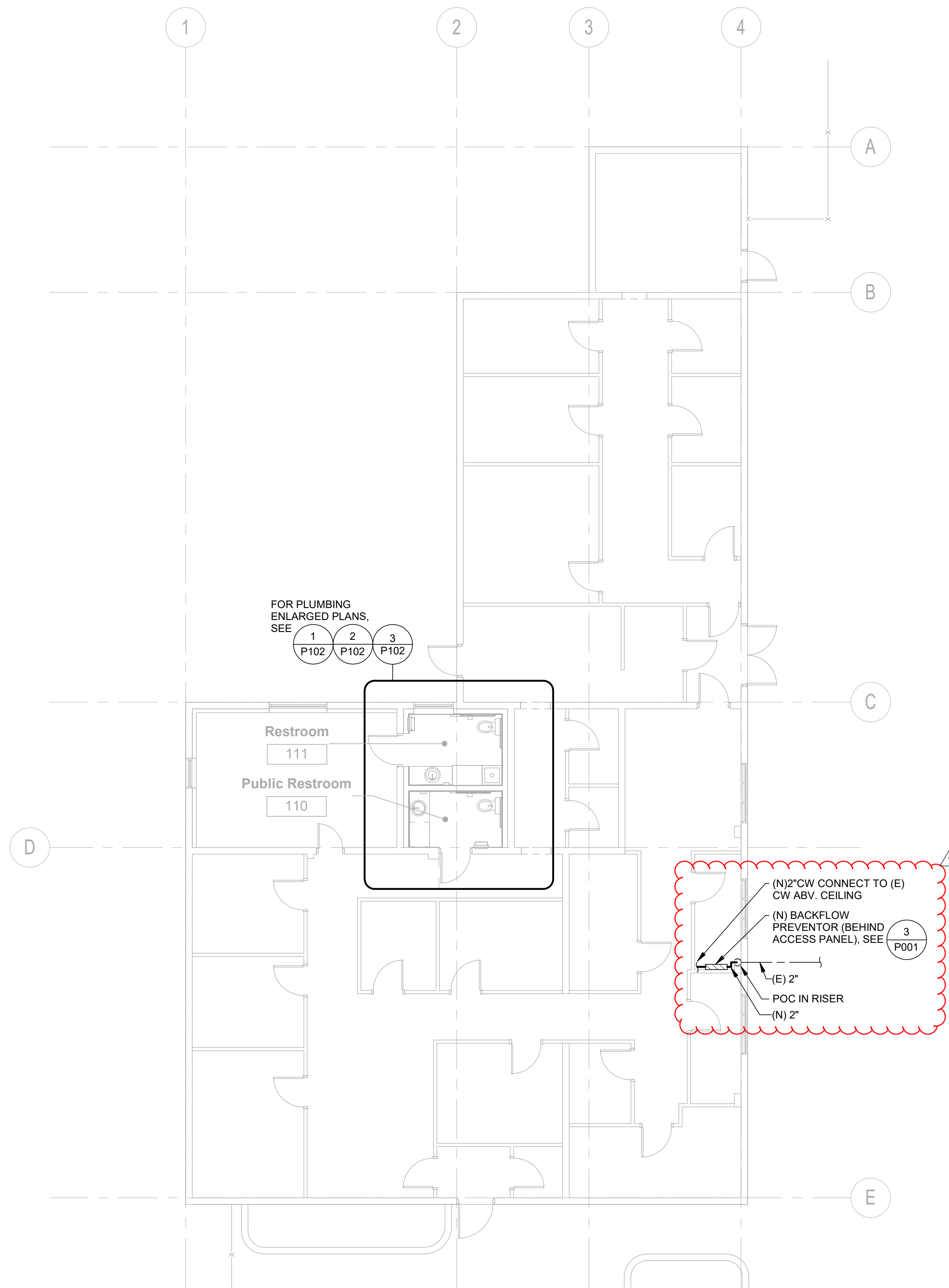
SPECIFICATIONS

February 26, 2021  
 H+K Project No: 2022

**P002**



BIN 3601/2022 Sparks Maintenance Admin Toilet Room Reno/2020-060 Sparks Maintenance Toilet Rooms Renovation - V21.rvt



**PLUMBING OVERALL PLAN** 1 P101  
 SCALE: 1/8" = 1'-0" N

1/17/2022 7:12:15 AM



Professional Seal	Date	Revision
	1 1/27/22	Plan Review #1

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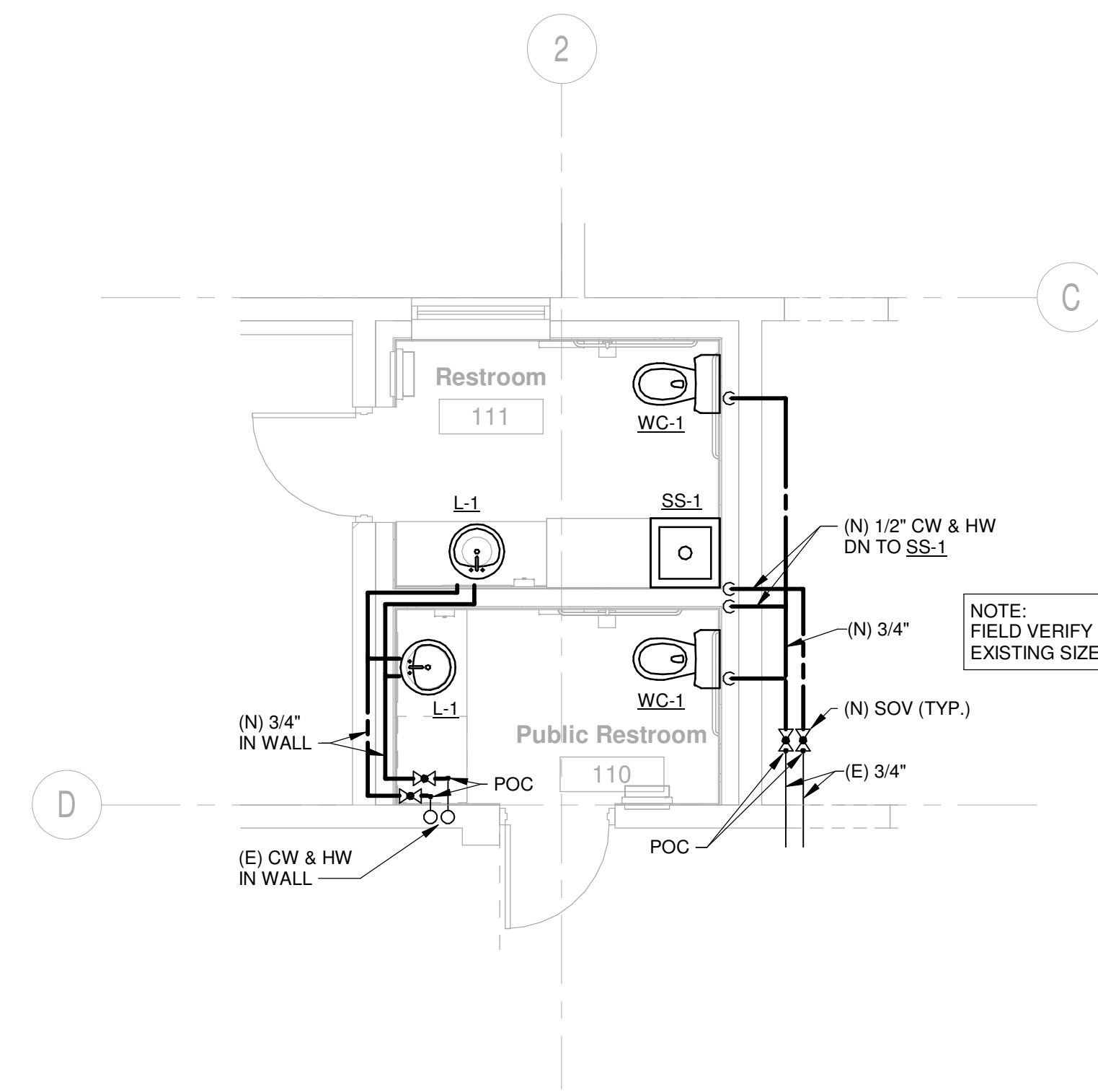
PLUMBING OVERALL PLAN

February 26, 2021  
 H+K Project No: 2022

**P101**

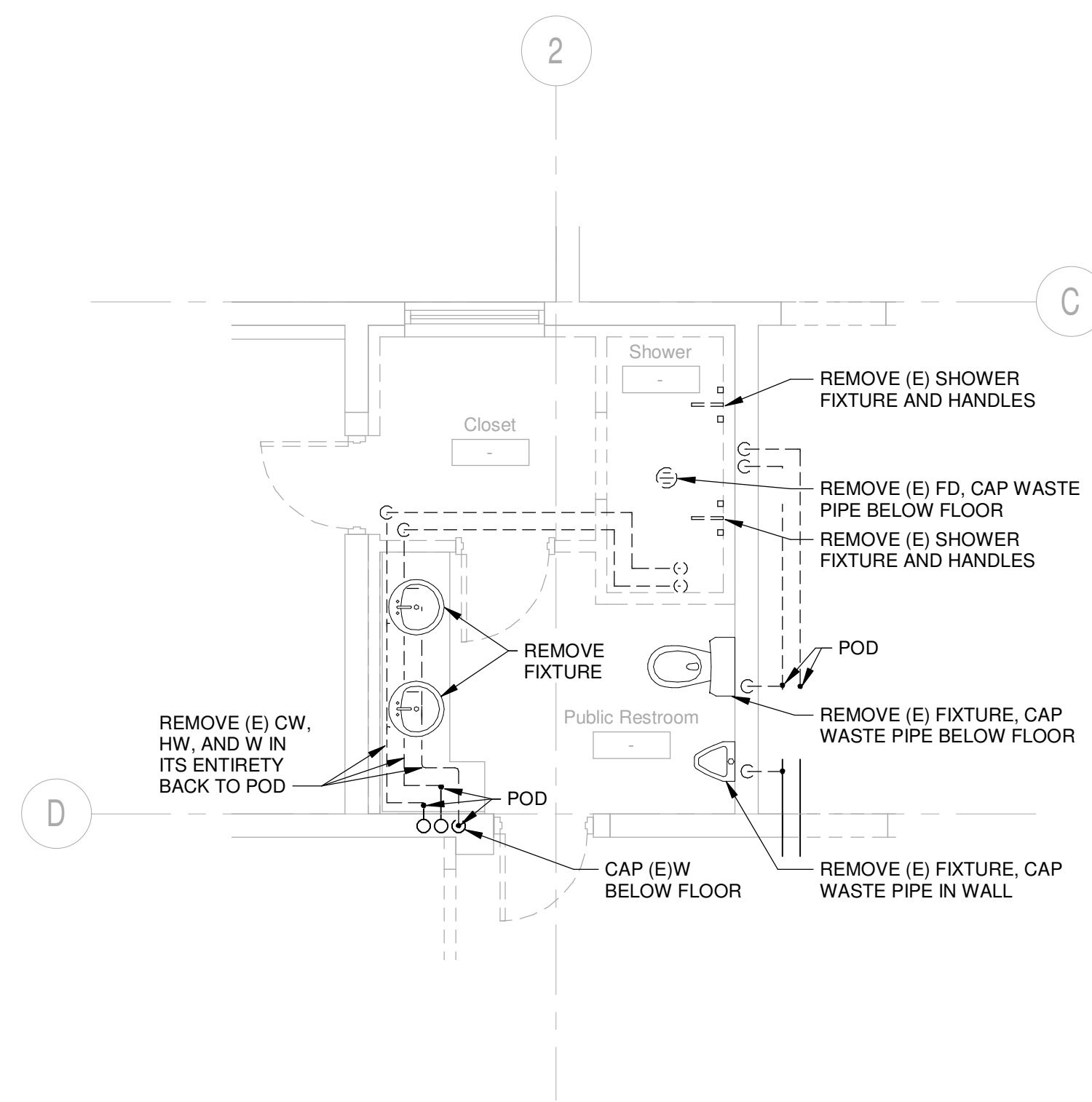


BIM 360/2022 Sparks Maintenance Admin Toilet Room Reno/2020-060 Sparks Maintenance Toilet Rooms Renovation - V21.rvt



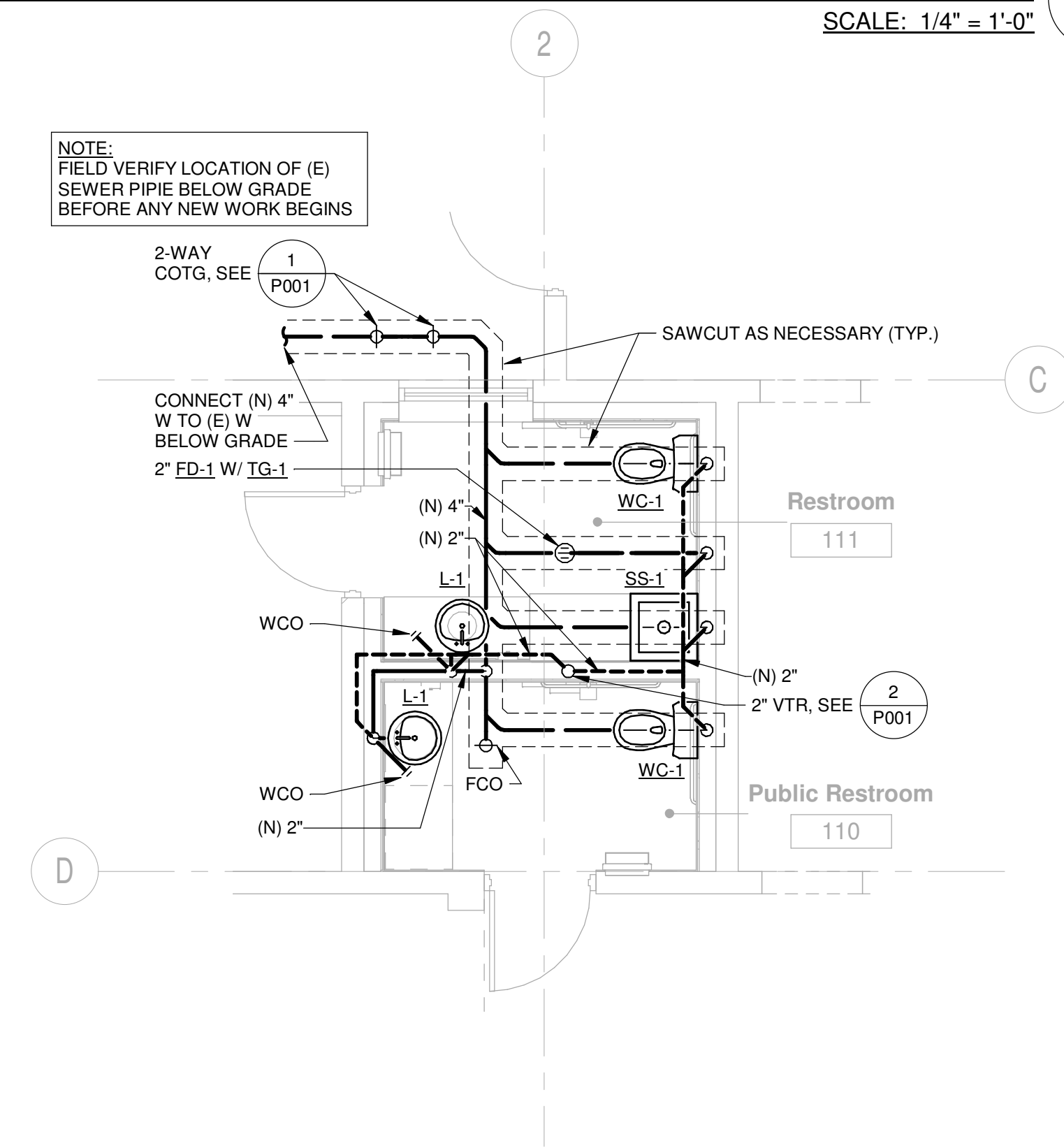
**PLUMBING NEW FLOOR PLAN - DOMESTIC WATER**  
SCALE: 1/4" = 1'-0"

2  
P102



**PLUMBING DEMO FLOOR PLAN**  
SCALE: 1/4" = 1'-0"

1  
P102



**PLUMBING NEW FLOOR PLAN - WASTE & VENT**  
SCALE: 1/4" = 1'-0"

3  
P102



Date	Revision



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PLUMBING ENLARGED  
FLOOR PLANS

February 26, 2021  
H+K Project No: 2022

**P102**



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**COMcheck Software Version 4.1.4.0**  
**Interior Lighting Compliance Certificate**

**Project Information**  
 Energy Code: 2018 IECC  
 Project Title:  
 Project Type: New Construction

Construction Site: Owner/Agent: Designer/Contractor:

**Additional Efficiency Package(s)**  
 Enhanced Interior Lighting Controls

**Allowed Interior Lighting Power**

A Area Category	B Floor Area (ft <sup>2</sup> )	C Allowed Watts / ft <sup>2</sup>	D Allowed Watts (B X C)
1-Admin Office (Office)	126	0.79	100
Total Allowed Watts =			100

**Proposed Interior Lighting Power**

A Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps/ Fixture	C # of Fixtures	D Watt. (C X D)	E (C X D)
1-Admin Office (Office)				
LED 1: L1: S17: Other:	1	2	18	37
LED 2: L2X: Z4RDL: Other:	1	2	21	42
Total Proposed Watts =			79	

**Interior Lighting PASSES: Design 21% 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 2018 IECC requirements in COMcheck Version 4.1.4.0 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

**LIGHTING FIXTURE SCHEDULE**

LIGHTING FIXTURE CATALOG NUMBERS ARE SERIES TYPE ONLY. PROVIDE TRIMS, BALLASTS, MOUNTING EQUIPMENT, FITTINGS AND LAMPS AS REQUIRED BY THE SPECIFICATIONS AND PROJECT CONDITIONS FOR A COMPLETE INSTALLATION. THIS IS NOT A STANDALONE SCHEDULE AND FIXTURES MUST INCORPORATE ALL WORK INDICATED OR IMPLIED THROUGHOUT THE DRAWINGS AND SPECIFICATIONS.

LIGHTING SYSTEM FOOTCANDLE LEVELS ARE BASED ON THE UTILIZATION OF STANDARD REFLECTANCES OF 80-50-20 (CEILING-WALL-FLOOR) PER I.E.S. (ILLUMINATED ENGINEERING SOCIETY). THE ROOM SURFACES ARE USED AS AN INTEGRAL COMPONENT OF THE LIGHTING SYSTEMS. THE REFLECTANCE OF THE SURFACE PAINT COLOR, MATERIAL, AND OTHER ROOM SURFACES DIRECTLY AFFECTS THE DELIVERY OF LIGHT TO THE WORK PLANE. A SIGNIFICANT DROP IN OVERALL LIGHTING LEVELS WILL OCCUR IF REFLECTANCES ARE LOWERED. THE ARCHITECT/TOWNER SHALL NOTIFY THE ENGINEER IMMEDIATELY IF FINISHES DO NOT FALL IN LINE WITH THE REFLECTANCES MENTIONED ABOVE.

SUBSTITUTION: DEFINITIONS  
 OR EQUAL = EQUAL OR SUPERIOR TO SPECIFIED IN ALL RESPECTS WILL BE ALLOWED. ENGINEER'S PRE-BID APPROVAL IS NOT REQUIRED. PROPOSED EQUAL FIXTURES ARE SUBJECT TO REVIEW DURING THE STANDARD SUBMITTAL PROCESS.  
 NO EQUAL = PROVIDE SPECIFIED FIXTURE. SUBSTITUTIONS ARE NOT ALLOWED.  
 SUBJECT TO REVIEW = EQUAL OR SUPERIOR TO SPECIFIED IN ALL RESPECTS MAY BE ALLOWED ONLY WITH ENGINEER'S APPROVAL. ALL SUBSTITUTIONS MUST BE SUBMITTED AS REQUIRED BY SPECIFICATIONS AND ACCOMPANIED WITH POINT BY POINT LIGHTING CALCULATIONS. DETERMINATION OF EQUAL IS ENGINEER'S SOLE DISCRETION.

QTY	SYMBOL	DESCRIPTION
18 VA	L1	2 LED WALL MOUNT VANITY, PERFORATED VERTICAL FASCIA WITH ACRILIC LENSED DIFUSER, TOP AND BOTTOM FROSTED ACRILIC DIFUSERS, WHITE FINISH, DIMMING RIVER TO BE WIRED FOR NON-DIMMING CONTROL. SOURCE: LED, 1600 LUMENS, 4000K VOLTAGE: 120 V MANUFACTURER: FINELITE #S17-LED-VCF-PF-2-B-840-120-SC SUBSTITUTIONS: ○ OR EQUAL ● SUBJECT TO REVIEW ○ NO EQUAL
21 VA	L2X	4" ROUND LED DOWNLIGHT OPEN MATTE WHITE REFLECTOR, WHITE FLANGE, DIMMING DRIVER TO BE WIRED FOR NON-DIMMING CONTROL, AND EMERGENCY BATTERY PACK WITH REFLECTOR MOUNTED TEST SWITCH SOURCE: LED, 2000 LUMENS, 4000K VOLTAGE: 120 V MANUFACTURER: LIGHTOLIER #4RNM-Z4RDL20840WOWH-Z10U SUBSTITUTIONS: ○ OR EQUAL ● SUBJECT TO REVIEW ○ NO EQUAL

**ELECTRICAL LEGEND**

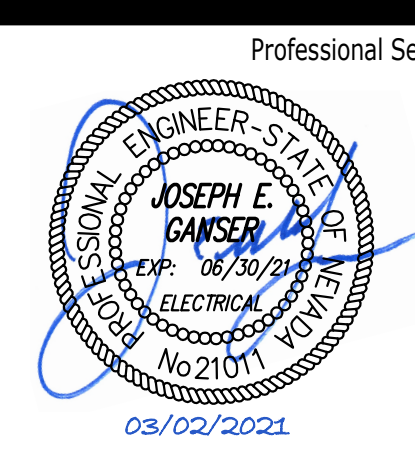
<ul style="list-style-type: none"> <li>PANELBOARD: SURFACE MOUNTED</li> <li>PANELBOARD: FLUSH MOUNTED</li> <li>SWITCHBOARD OR DISTRIBUTION PANEL</li> <li>TRANSFORMER</li> <li>PULLBOX / VAULT</li> <li>MOTOR STARTER</li> <li>COMBINATION MOTOR STARTER</li> <li>COMBINATION MOTOR STARTER PROVIDED BY OTHERS</li> <li>DISCONNECT SWITCH - FUSIBLE (FUSED PER EQUIP. NAMEPLATE)</li> <li>DISCONNECT SWITCH - NON-FUSIBLE</li> <li>DISCONNECT SWITCH PROVIDED BY OTHERS</li> <li>VARIABLE FREQUENCY DRIVE</li> <li>VARIABLE FREQUENCY DRIVE PROVIDED BY OTHERS</li> <li>ENCLOSED CIRCUIT BREAKER</li> <li>GROUND ROD</li> <li>SHUNT TRIP STATION OR EMERGENCY PUSHBUTTON</li> <li>REMOTE METER</li> </ul>	<ul style="list-style-type: none"> <li>SINGLE RECEPTACLE: 20A, 125V, NEMA 5-20, +18" AFF (UNO)</li> <li>DUPLEX RECEPTACLE: 20A, 125V, NEMA 5-20, +18" AFF (UNO)</li> <li>DUPLEX RECEPTACLE: HALF SWITCHED</li> <li>DUPLEX RECEPTACLE: FLOOR MOUNTED</li> <li>QUAD RECEPTACLE: 20A, 125V, NEMA 5-20, +18" AFF (UNO)</li> <li>QUAD RECEPTACLE: FLOOR MOUNTED</li> <li>ISOLATED GROUND TYPE RECEPTACLE (ORANGE TRIANGLE) - 20A, 125V, NEMA 5-20IG, +18" AFF (UNO)</li> <li>DUPLEX RECEPTACLE GFI TYPE - 20A, 125V, NEMA 5-20 GFI +18" AFF (UNO)</li> <li>DUPLEX RECEPTACLE: ABOVE COUNTER (VERIFY HEIGHT)</li> <li>SPECIAL PURPOSE RECEPT. - SEE DWGS FOR NEMA CONFIG.</li> <li>DUPLEX RECEPTACLE: CEILING MOUNTED</li> <li>MULTI-OUTLET ASSEMBLY: SPACING PER DWGS</li> </ul>	<ul style="list-style-type: none"> <li>GROUND FAULT INTERRUPTER DEVICE</li> <li>METERING DEVICE</li> <li>REMOTE METER</li> <li>SHUNT TRIP DEVICE</li> <li>TRANSFORMER</li> <li>CURRENT TRANSFORMER</li> <li>GENERATOR</li> <li>MOTOR - # INDICATES HP</li> <li>INTERRUPTER SWITCH</li> <li>GROUND FAULT RELAY W/ CT OR SENSOR</li> <li>FUSE</li> <li>CIRCUIT BREAKER</li> <li>DRAWOUT CIRCUIT BREAKER</li> <li>TRANSFER SWITCH (A=AUTOMATIC, M=MANUAL) # FOR POLES 2, 3 OR 4</li> <li>SURGE PROTECTION DEVICE</li> </ul>	<ul style="list-style-type: none"> <li>A AMPS</li> <li>ADA AMERICANS WITH DISABILITIES ACT</li> <li>AFC ABOVE FINISHED CEILING</li> <li>AFCI ARC-FAULT CIRCUIT INTERRUPTER</li> <li>AFF ABOVE FINISHED FLOOR</li> <li>AFG ABOVE FINISHED GRADE</li> <li>AHU AUTHORITY HAVING JURISDICTION</li> <li>AIC AMP INTERRUPTING CAPACITY</li> <li>AL ALUMINUM</li> <li>ATS AUTOMATIC TRANSFER SWITCH</li> <li>AWG AMERICAN WIRE GAUGE</li> <li>BC BARE COPPER</li> <li>BKR BREAKER</li> <li>C CONDUIT/RACEWAY</li> <li>CEC CALIFORNIA ENERGY COMMISSION</li> <li>CKT CIRCUIT</li> <li>CLG CEILING</li> <li>CO CONDUIT/RACEWAY ONLY</li> <li>CT CURRENT TRANSFORMER</li> <li>CU COPPER</li> <li>DB DISTRIBUTION BOARD</li> <li>DDC DIRECT DIGITAL CONTROLLER</li> <li>DPDT DOUBLE-POLE, DOUBLE-THROW</li> <li>DPST DOUBLE-POLE, SINGLE-THROW</li> <li>DWG DRAWING</li> <li>(E) EXISTING TO REMAIN</li> <li>ELEC ELECTRICAL</li> <li>EM EMERGENCY</li> <li>EMT ELECTRICAL METALLIC TUBING</li> <li>FUTURE</li> <li>FLA FULL LOAD AMPS</li> <li>FMC FLEXIBLE METAL CONDUIT (STEEL)</li> <li>FPE FUSE PER EQUIP. NAMEPLATE</li> <li>GFI GROUND FAULT INTERRUPT</li> <li>GFR GROUND FAULT RELAY</li> <li>GND GROUND</li> <li>HID HIGH INTENSITY DISCHARGE</li> <li>HOA HAND-OFF-AUTO SWITCH</li> <li>HP HORSEPOWER</li> <li>HSPK HOUSEKEEPING</li> <li>IMC INTERMEDIATE METAL CONDUIT</li> <li>J-BOX JUNCTION BOX</li> <li>K kcmil (300k = 300 kcmil)</li> <li>KVA KILOVOLT AMPS</li> <li>KW KILOWATT</li> <li>LTG LIGHTING</li> <li>IG ISOLATED GROUND</li> <li>MCB MAIN CIRCUIT BREAKER</li> <li>MCM THOUSAND CIRCULAR MILS</li> <li>MFG MANUFACTURER</li> <li>MLO MAIN LUGS ONLY</li> <li>MS MOTOR STARTER</li> <li>MSB MAIN SWITCHBOARD</li> <li>MTS MANUAL TRANSFER SWITCH</li> <li>NC NORMALLY CLOSED</li> <li>NEC NATIONAL ELECTRICAL CODE</li> <li>NEMA NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION</li> <li>NOT IN CONTRACT</li> <li>NIC NOT IN CONTRACT</li> <li>NL NIGHTLIGHT</li> <li>NO NORMALLY OPEN</li> <li>NTS NOT TO SCALE</li> <li>NVE NV ENERGY</li> <li>P POLE</li> <li>PH/P PHOTOVOLTAIC</li> <li>PV PANEL</li> <li>PNL PV USA TEST CONDITIONS</li> <li>PTC POWER</li> <li>PWR RELOCATED</li> <li>(R) RIGID ALUMINUM CONDUIT</li> <li>RAC RIGID ALUMINUM CONDUIT</li> <li>RFC RIGID FIBERGLASS CONDUIT</li> <li>RSC RIGID STEEL CONDUIT</li> <li>SE SERVICE ENTRANCE</li> <li>SPD SURGE PROTECTION DEVICE</li> <li>SPDT SINGLE-POLE, DOUBLE-THROW</li> <li>SPST SINGLE-POLE, SINGLE-THROW</li> <li>STC STANDARD TEST CONDITIONS</li> <li>SW SWITCH</li> <li>TE TELECOM</li> <li>TB TELEPHONE TERMINATION BOARD</li> <li>TYP TYPICAL</li> <li>UL UNDERWRITER'S LABORATORY</li> <li>UNO UNLESS NOTED OTHERWISE</li> <li>UNSW UNSWITCHED</li> <li>UPS UNINTERRUPTED POWER SUPPLY</li> <li>V VOLTS</li> <li>VA VOLT AMPS</li> <li>VFD VARIABLE FREQUENCY DRIVE</li> <li>W WATTS</li> <li>WP WEATHER PROOF</li> <li>(X) EXISTING TO BE REMOVED</li> <li>XFMR OR XF- TRANSFORMER</li> </ul>
<ul style="list-style-type: none"> <li>S SINGLE POLE SWITCH 48" AFF (UNO)</li> <li>S<sub>3</sub> THREE WAY SWITCH 48" AFF (UNO)</li> <li>S<sub>4</sub> FOUR WAY SWITCH 48" AFF (UNO)</li> <li>S<sub>X</sub> KEY OPERATED SWITCH 48" AFF (UNO)</li> <li>S<sub>L</sub> SWITCH WITH LIGHTED HANDLE</li> <li>S<sub>M</sub> MANUAL MOTOR STARTER</li> <li>S<sub>P</sub> SWITCH WITH PILOT LIGHT 48" AFF (UNO)</li> <li>S<sub>T</sub> TIME WALL SWITCH 48" AFF (UNO)</li> <li>D DIMMER OPERATED SWITCH 48" AFF (UNO)</li> <li>OC OCCUPANCY SENSOR - WALL MOUNTED 48" AFF (UNO)</li> <li>OD 0-10V DIMMING OCCUPANCY SENSOR - WALL MOUNTED 48" AFF (UNO) EQUAL TO SENSOR SWITCH WXS-D</li> <li>OS = 360° OCCUPANCY SENSOR - CEILING MOUNTED. ARROWS INDICATE COVERAGE, DIRECTION &amp; PATTERN. PROVIDE WITH POWER PACK PER MFG REQUIREMENTS.</li> <li>OS = 180°</li> <li>OS = 90°</li> <li>CS CONTROL STATION</li> <li>CONTACTOR OR RELAY</li> <li>PC PHOTOELECTRIC CELL (ON ROOF FACING NORTH UNO)</li> <li>TC TIMELOCK</li> </ul>	<ul style="list-style-type: none"> <li>DATA / VOICE OUTLET: 18" AFF (UNO) - 1 VOICE, 1 DATA JACK, 2 BLANKS</li> <li>DATA / VOICE OUTLET: FLOOR MOUNTED</li> <li>DATA / VOICE OUTLET: ABOVE COUNTER (VERIFY HEIGHT)</li> <li>MULTI-OUTLET ASSEMBLY: SPACING PER DWGS</li> <li>TELEPHONE OUTLET: 18" AFF (UNO)</li> <li>DATA OUTLET: 18" AFF (UNO)</li> <li>SPEAKER</li> <li>TELEVISION OUTLET: 18" AFF (UNO)</li> <li>TELEPHONE TERMINAL BOARD (TTB)</li> <li>VOLUME CONTROL</li> <li>GROUNDING BAR</li> </ul>	<ul style="list-style-type: none"> <li>NORMALLY OPEN (NO) CONTACT</li> <li>NORMALLY CLOSED (NC) CONTACT</li> <li>COIL - VOLTAGE PER CONTROL DIAGRAMS</li> <li>PILOT LIGHT (LED) PUSH-TO-TEST. LETTER INDICATES COLOR (R=RED, G=GREEN, A=AMBER, Y=YELLOW)</li> <li>PILOT LIGHT (LED) NON PUSH-TO-TEST</li> <li>THERMAL OVERLOAD</li> <li>MAGNETIC OVERLOAD</li> <li>PUSH BUTTON NORMALLY OPEN (NO)</li> <li>PUSH BUTTON NORMALLY CLOSED (NC)</li> <li>HAND-OFF-AUTO (HOA) SELECTOR SWITCH</li> <li>LIMIT SWITCH NORMALLY OPEN (NO)</li> <li>LIMIT SWITCH NORMALLY CLOSED (NC)</li> <li>PUSH BUTTON ILLUMINATED (LED)</li> </ul>	<ul style="list-style-type: none"> <li>TICS = NO. OF #12 WIRES (UNO) IF MORE THAN TWO WITHIN RACEWAY. GROUNDING CONDUCTOR (NOT SHOWN) ALWAYS REQUIRED.</li> <li>ISOLATED GROUNDING CONDUCTOR - NEUTRAL CONDUCTOR(S)</li> <li>BRANCH CIRCUIT (WHEN TIC MARKS ARE NOT SHOWN) = (1) PHASE, (1) NEUTRAL AND (1) GROUNDING CONDUCTOR</li> <li>HOMERUN TO PANELBOARD OR DEVICE</li> <li>HOMERUN CIRCUIT DESIGNATION</li> <li>GROUNDING CONDUCTOR - NEUTRAL CONDUCTOR (N=1, 2N=2 NEUTRALS, 3N=3 NEUTRALS)</li> <li>PHASE CONDUCTOR(S) - PANELBOARD DESIGNATION</li> <li>HOMERUN CIRCUIT DESIGNATION (3 PHASE CIRCUIT SHOWN)</li> <li>GROUNDING CONDUCTOR - PHASE CONDUCTOR(S) - PANELBOARD DESIGNATION</li> </ul>
<ul style="list-style-type: none"> <li>CONDUIT/RACEWAY IN WALL OR ABOVE CEILING</li> <li>CONDUIT/RACEWAY BELOW GRADE OR BELOW FLOOR</li> <li>CONDUIT/RACEWAY UP</li> <li>CONDUIT/RACEWAY DOWN</li> <li>BREAK OR RUN CONTINUES</li> <li>OVERHEAD SERVICE</li> <li>PRIMARY</li> <li>SECONDARY</li> <li>COMMUNICATIONS OR SIGNAL</li> <li>TELEPHONE</li> <li>TELEVISION</li> <li>LOW VOLTAGE AND/OR CONTROL WIRING</li> <li>EMERGENCY CIRCUIT</li> <li>CONDUIT/RACEWAY STUB OUT: MARK AND CAP (SITE)</li> <li>CONDUIT/RACEWAY SLEEVE</li> </ul>	<ul style="list-style-type: none"> <li>LIGHTING FIXTURE - LOWERCASE LETTER DENOTES SWITCHING (a = CENTER LAMP, b = OUTER LAMPS)</li> <li>WALL MOUNTED FIXTURE</li> <li>RECESSED DOWNLIGHT</li> <li>SURFACE LUMINAIRE</li> <li>POLE MOUNTED LIGHT (# OF HEADS INDICATED ON DRAWING)</li> <li>FLUORESCENT STRIP FIXTURE</li> <li>BOLLARD</li> <li>RECESSED DOWNLIGHT (WALL WASH)</li> <li>TRACK LIGHTING</li> <li>EMERGENCY LIGHTING UNIT</li> <li>EXIT SIGN FIXTURE - SHADED AREA DENOTES LIGHTED FACE - ARROWS DENOTE DIRECTION</li> <li>EMERGENCY FIXTURE</li> </ul>	<ul style="list-style-type: none"> <li>THERMOSTAT (PROVIDED BY MECH. CONTRACTOR UNO)</li> <li>JUNCTION BOX (SIZE AS REQUIRED UNO)</li> <li>SHEET NOTE DESIGNATION</li> <li>FIXTURE DESIGNATION: F1-TYPE (SEE FIXTURE SCH.)</li> <li>REVISION DELTA: NUMBER REPRESENTS REVISION</li> <li>FEEDER DESIGNATION</li> <li>EQUIPMENT CONNECTION</li> </ul>	<ul style="list-style-type: none"> <li>20 SINGLE POLE CIRCUIT BREAKER</li> <li>202 TWO POLE CIRCUIT BREAKER</li> <li>20/3 THREE POLE CIRCUIT BREAKER</li> <li>20A ARC FAULT CIRCUIT BREAKER</li> <li>20C CONTROLLABLE CIRCUIT BREAKER</li> <li>20G GFI CIRCUIT BREAKER</li> </ul>
		<ul style="list-style-type: none"> <li>L = LIGHTING</li> <li>R = RECEPTACLES</li> <li>E = EQUIPMENT</li> <li>M = MOTOR</li> <li>M1 = LARGEST MOTOR</li> <li>K = KITCHEN EQUIP</li> <li>H = ELECTRIC HEAT</li> </ul>	

NOTE: THIS IS A MASTER SYMBOL LIST. IT MAY BE THAT NOT ALL SYMBOLS SHOWN ARE USED WITHIN THIS SET OF PLANS. HEIGHTS GIVEN ARE TO CENTER LINE OF DEVICE.

**DRAWING SCHEDULE**

SHEET	DESCRIPTION	100% CD
E001	Electrical Legend, Drawing and Lighting Schedule	●
E002	Electrical Specifications	●
E201	Lighting Plans	●
E301	Power Plans	●
TOTAL SHEETS IN ISSUE:		4

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Date	Revision

**PK Electrical, Inc.**  
 Engineering Design Consulting  
 681 Sierra Rose Drive, Suite B | Reno, NV 89511 | 775.826.9010  
 4601 DTC Boulevard, Suite 740 | Denver, CO 80237 | 720.481.3290  
 pkelectrical.com 21008

**H+K ARCHITECTS**  
 5485 Reno Corporate Drive, Suite 100  
 Reno, Nevada 89511-2262  
 P 775+332+6640  
 F 775+332+6642  
 hkarchitects.com

**Sparks Maintenance Administration**  
**Toilet Room Renovation**  
 215 S 21st Street  
 Sparks, Nevada 89431

Electrical Legend,  
 Drawing and Lighting  
 Schedule

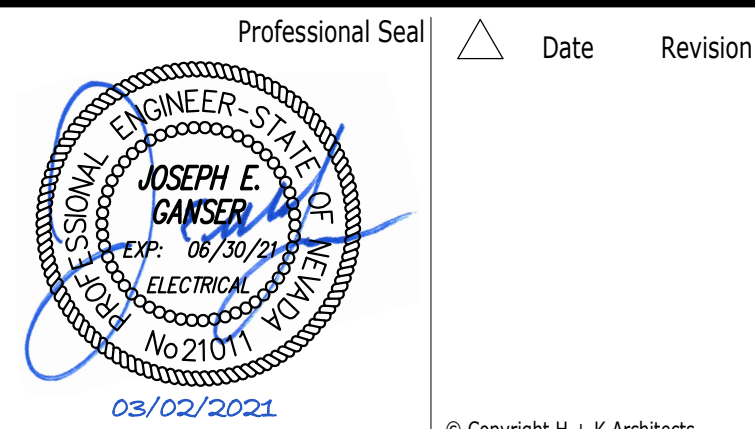
February 26, 2021  
 H+K Project No: 2022

**E001**

SECTION 260000 ELECTRICAL SPECIFICATIONS

ITEM	DESCRIPTION	ITEM	DESCRIPTION	ITEM	DESCRIPTION	ITEM	DESCRIPTION
1.1	<p><b>PART 1 - GENERAL SUMMARY</b></p> <ul style="list-style-type: none"> <li>THE WORK UNDER THIS DIVISION SHALL CONSIST OF ALL LABOR, MATERIALS, EQUIPMENT, SERVICES AND RELATED ACCESSORIES, ETC. NECESSARY AND REQUIRED TO COMPLETE ALL WORK AS SHOWN OR REFERRED ON THE DRAWINGS AND IN THE SPECIFICATIONS (CONTRACT DOCUMENTS).</li> <li>PROVIDE FIXED ELECTRICAL EQUIPMENT, EXCEPT WHERE SPECIFICALLY NOTED OTHERWISE.</li> <li>PROVIDE EQUIPMENT AND/OR WIRING NORMALLY FURNISHED OR REQUIRED FOR COMPLETE ELECTRICAL SYSTEMS BUT NOT SPECIFICALLY SPECIFIED ON THE DRAWINGS AND/OR SPECIFICATIONS, AS THOUGH SPECIFIED BY BOTH.</li> <li>ALL EQUIPMENT AND WIRING SHALL BE NEW, EXCEPT WHERE SPECIFICALLY SHOWN OR SPECIFIED OTHERWISE.</li> </ul>	1.8	<p><b>SUBMITTALS</b></p> <p>BEFORE ORDERING ANY EQUIPMENT, CONTRACTOR SHALL SUBMIT SIX COPIES OF FACTORY SHOP DRAWINGS FOR ALL LIGHTING FIXTURES, LIGHTING CONTROLS, SWITCHGEAR, PANELS, CIRCUIT BREAKERS, MOTOR CONTROLLERS, DISCONNECTS WIRING DEVICES, PLATES, RACEWAYS AND FITTINGS, ETC. PROPOSED FOR THIS PROJECT.</p>	2.5	<p><b>FIRE ALARM</b></p> <p>EXISTING FIRE ALARM SYSTEM TO REMAIN. MAINTAIN IN CONSTANT OPERATION DURING THIS PROJECT. NEW COMPONENTS AND CIRCUITING SHALL BE FACTORY-CERTIFIED AS BEING PROJECT-SPECIFIC COMPATIBLE WITH EXISTING SYSTEM. ALL CONNECTIONS TO EXISTING SYSTEM SHALL BE PERFORMED BY FACTORY-CERTIFIED TECHNICIAN AND SHALL BE ACCEPTED BY OWNER'S SYSTEM MONITORING AGENCY. PLANS DO NOT INDICATE ALL DEVICES, CONNECTIONS OR CIRCUITING REQUIRED FOR A COMPLETE SYSTEM. SUBMIT PROPOSED DESIGN TO THE FIRE MARSHAL AND RECEIVE APPROVAL PRIOR TO ROUGH-IN.</p>	3.11	<p><b>ANCHORS</b></p> <ul style="list-style-type: none"> <li>PROVIDE ANCHORS FOR ALL EQUIPMENT, RACEWAYS, HANGERS, ETC. TO SAFELY SUPPORT WEIGHT OF ITEM INVOLVED PLUS 100% FOR DEAD LOADS. LIVE LOADS SHALL BE CONSIDERED IN ADDITION TO DEAD LOADS.</li> <li>ANCHORS TO CONSIST OF EXPANSION TYPE DEVICES SIMILAR TO "REDHEAD" OR LEAD EXPANSION ANCHORS. PLASTIC ANCHORS ARE NOT ACCEPTABLE.</li> <li>USE PRESET ANCHOR STEEL INSERTS IN CONCRETE SLABS. PROVIDE PRESET ANCHOR SIZE AND TYPE FOR ANTICIPATED OR SPECIFIED ROD/BOLT SIZE AND LIVE/DEAD LOAD.</li> </ul>
1.2	<p><b>RELATED WORK SPECIFIED ELSEWHERE</b></p> <p>COORDINATION: THE CIVIL, ARCHITECTURAL, MECHANICAL, KITCHEN AND INTERIOR DRAWINGS CONTAIN DETAIL DESCRIPTIONS, CIRCUITING AND CONNECTION REQUIREMENTS WHICH ARE PART OF DIVISION 16 RESPONSIBILITIES. ELECTRICAL CONTRACTOR SHOULD NOT SUBMIT BIDS ON THIS PROJECT BEFORE REVIEWING ALL PROJECT DRAWINGS, SPECIFICATIONS AND ADDENDA.</p>	1.9	<p><b>SUBSTITUTIONS</b></p> <p>PROPOSED SUBSTITUTIONS SHALL BE EQUAL OR SUPERIOR TO SPECIFIED ITEMS IN ALL RESPECTS. DETERMINATION OF EQUALITY RESTS SOLELY WITH ENGINEER. SUBSTITUTIONS MUST BE SUBMITTED A MINIMUM OF 10 WORKING DAYS PRIOR TO BID FOR CONSIDERATION. PROPOSED SUBSTITUTIONS PROVIDED LATER WILL NOT BE REVIEWED OR ALLOWED. BID SUBSTITUTED MATERIAL WILL ONLY BE ALLOWED IF ACCEPTED IN WRITING BY ENGINEER.</p>	3.1	<p><b>PART 3 - EXECUTION VISIT TO SITE</b></p> <p>VISIT SITE, AND SURVEY EXISTING CONDITIONS AFFECTING WORK PRIOR TO BID. INCLUDE NECESSARY MATERIALS AND LABOR TO ACCOMPLISH THE ELECTRICAL WORK, INCLUDING RELOCATION OF EXISTING SERVICES AND UTILITIES ON BUILDING SITE IN BID. NO CONSIDERATION SHALL BE GIVEN TO FUTURE CLAIMS DUE TO EXISTING CONDITIONS. ANY DISCREPANCIES OR INTERFERENCES SHALL BE REPORTED IMMEDIATELY TO THE ENGINEER.</p>	3.12	<p><b>CLEANING AND PAINTING</b></p> <ul style="list-style-type: none"> <li>CLEAN EQUIPMENT FURNISHED IN THIS DIVISION AFTER COMPLETION OF WORK. CLEAN WIPE THE INTERIOR OF ALL CONDUIT, PULLBOXES, JUNCTION BOXES, OUTLET BOXES, AND PANELBOARD BACKBOXES SOILED WITH DIRT AND DEBRIS PRIOR TO INSTALLATION OF WIRING.</li> <li>TOUCH-UP OR RE-PAINT DAMAGED PAINTED FINISHES AS DETERMINED BY THE ENGINEER.</li> </ul>
1.3	<p><b>ADOPTED CODES</b></p> <ul style="list-style-type: none"> <li>INTERNATIONAL BUILDING CODE (IBC) PUBLISHED BY THE INTERNATIONAL CODE COUNCIL (ICC).</li> <li>NATIONAL ELECTRICAL CODE (NEC) PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA).</li> <li>INTERNATIONAL FIRE CODE (IFC) PUBLISHED BY THE INTERNATIONAL CODE COUNCIL.</li> <li>NATIONAL FIRE CODES (NFPA STANDARDS) PUBLISHED BY THE NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) AS REFERENCED IN THE 2018 INTERNATIONAL FIRE CODE.</li> <li>INTERNATIONAL ENERGY CONSERVATION CODE (IECC) PUBLISHED BY THE INTERNATIONAL CODE COUNCIL.</li> <li>ASHRAE /IESNA STANDARD 90.1-2019 IS INCORPORATED BY REFERENCE.</li> <li>ADMINISTRATIVE CODE (NRS) AND THE NEVADA ADMINISTRATIVE CODE (NAC), INCLUDING THOSE LISTED BELOW.</li> <li>THE MOST CURRENT REGULATIONS OF THE STATE FIRE MARSHAL, NEVADA DEPARTMENT OF PUBLIC SAFETY, CARSON CITY, NEVADA (NAC CHAPTER 477, STATE FIRE MARSHAL).</li> <li>THE MOST CURRENT EDITION OF THE AMERICANS WITH DISABILITIES ACT (ADA) PUBLISHED BY THE UNITED STATES DEPARTMENT OF JUSTICE INCLUDING THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES (ADAAG).</li> </ul>	1.10	<p><b>EXAMINATION OF SITE AND EXISTING CONDITIONS</b></p> <p>BEFORE SUBMITTING A PROPOSAL, CONTRACTOR SHALL EXAMINE THE SITE AND FAMILIARIZE HIMSELF WITH EXISTING CONDITIONS AND LIMITATIONS. NO EXTRAS WILL BE ALLOWED BECAUSE OF THE CONTRACTOR'S MISUNDERSTANDING OF THE AMOUNT OF WORK INVOLVED OR HIS LACK OF KNOWLEDGE OF ANY SITE CONDITIONS WHICH MAY AFFECT HIS WORK. ANY APPARENT VARIANCE OF THE DRAWINGS OR SPECIFICATIONS FROM THE EXISTING CONDITIONS AT THE SITE SHALL BE CALLED TO ATTENTION OF THE ENGINEER BEFORE SUBMITTING A PROPOSAL.</p>	3.2	<p><b>WORKMANSHIP</b></p> <ul style="list-style-type: none"> <li>ALL WORK PERFORMED SHALL BE FIRST CLASS WORK IN EVERY ASPECT. THE WORK SHALL BE PERFORMED BY MECHANICS SKILLED IN THEIR RESPECTIVE TRADES, WHO SHALL AT ALL TIMES BE UNDER THE SUPERVISION OF COMPETENT PERSONS. ALL WORK SHALL BE INSTALLED TO COMPLY WITH NECA'S "STANDARD OF INSTALLATION".</li> <li>IN ADDITION TO THE MATERIALS SPECIFIED ELSEWHERE, FURNISH AND INSTALL ALL OTHER MISCCELLANEOUS ITEMS NECESSARY FOR THE COMPLETION OF THE WORK TO THE EXTENT THAT ALL SYSTEMS ARE COMPLETE AND OPERATIVE.</li> <li>ALL WORK UNDER THIS SECTION SHALL BE PERFORMED IN COOPERATION WITH THE WORK PERFORMED UNDER ALL OTHER SECTIONS OF THE SPECIFICATIONS FOR THE PROJECT IN ORDER TO AVOID INTERFERENCE WITH OTHER WORK AND TO SECURE THE PROPER INSTALLATION OF ALL WORK. REFER TO THE DRAWINGS AND SPECIFICATIONS COVERING THE WORK TO BE PERFORMED UNDER ALL SECTIONS, SO THAT THE RELATION AND EXTENT OF THE WORK OF THIS SECTION WITH RESPECT TO THE WORK OF ALL OTHER SECTIONS IS UNDERSTOOD. GIVE RIGHT OF WAY TO RACEWAYS AND PIPING SYSTEMS INSTALLED AT A REARER DATE.</li> <li>CONDUIT SYSTEMS MUST BE COMPLETE PRIOR TO INSTALLATION OF WIRING.</li> </ul>	3.13	<p><b>RECORD DRAWINGS</b></p> <ul style="list-style-type: none"> <li>CONTRACTOR SHALL PROVIDE, PRIOR TO FINAL ACCEPTANCE AND OBSERVATION, ONE SET OF REVISED RECORD ELECTRICAL CONSTRUCTION DOCUMENTS ON REPRODUCIBLE MEDIUM. ALSO INCLUDE THE FOLLOWING INFORMATION: <ul style="list-style-type: none"> <li>EXACT ROUTING OF ALL CONDUITS LARGER THAN ONE INCH.</li> <li>EXACT LOCATION OF ALL SERVICE GROUNDING/BONDING CONNECTIONS.</li> <li>CONTRACTORS NAME, ADDRESS, AND TELEPHONE NUMBER.</li> </ul> </li> <li>RECORD NOTATIONS SHALL BE CLEARLY DRAWN AT A DRAFTING APPEARANCE EQUAL TO THE ORIGINAL DRAWINGS. CONTRACTOR SHALL ALSO PROVIDE ALL OPERATING AND MAINTENANCE MANUALS PRIOR TO FINAL PAYMENT.</li> </ul>
1.4	<p><b>DEFINITIONS</b></p> <ul style="list-style-type: none"> <li>PROVIDE: FURNISH, INSTALL, CONNECT AND TEST UNTIL COMPLETE.</li> <li>WIRE: FURNISH ALL NECESSARY WIRING, CONNECT AND TEST UNTIL COMPLETE.</li> <li>INSTALL: FURNISH, SET IN PLACE, WIRE AND TEST UNTIL COMPLETE.</li> <li>WORK: MATERIALS COMPLETELY INSTALLED, CONNECTED, AND TEST UNTIL COMPLETE.</li> <li>EQUAL: ACCEPTABLE EQUAL AS DETERMINED BY THE ENGINEER.</li> </ul>	1.11	<p><b>EXISTING OUTLETS</b></p> <p>EXISTING OUTLETS AND CIRCUITING NOT IN CONFLICT WITH NEW CONDITIONS SHALL REMAIN. EXTEND OUTLETS TO NEW SURFACES, CAULK AND PROVIDE. JUMBO PLATES AS REQUIRED TO PRESENT A SERVICEABLE AND FINISHED APPEARANCE.</p>	3.3	<p><b>CHANGE ORDERS</b></p> <ul style="list-style-type: none"> <li>ADDITIONAL WORK MAY BE REQUIRED ON THE PROJECT WHICH IS OUTSIDE THE SCOPE OF THE CONTRACT. SUCH ADDITIONAL WORK WILL BE DESCRIBED IN SUPPLEMENTAL INSTRUCTIONS AND/OR CLARIFICATIONS, TO BE ESTIMATED AND PRICED BY THE CONTRACTOR, AND ACCEPTED BY THE OWNER, PRIOR TO COMMENCING WORK. PROPOSALS SHALL INCLUDE A LIST OF QUANTITIES OF ALL MATERIAL BEING USED WITH UNIT COSTS BROKEN DOWN INTO MATERIAL AND LABOR COSTS PER UNIT. CONTRACTOR SHALL PROVIDE ACTUAL EQUIPMENT QUOTES WHEN REQUESTED BY ENGINEER.</li> <li>MATERIAL COSTS AND LABOR UNITS SHALL NOT EXCEED THE LATEST EDITION OF RS MEANS ELECTRICAL COST DATA.</li> </ul>	3.14	<p><b>TESTING</b></p> <ul style="list-style-type: none"> <li>PRIOR TO PLACING IN SERVICES, ALL ELECTRICAL SYSTEMS SHALL BE TESTED FOR OPENS, GROUNDS, AND PHASE ROTATION. THE MAIN SERVICE GROUND AND ALL LOCAL TRANSFORMER MADE GROUNDS SHALL BE MEGGER-TESTED. PROVIDE GFI TESTING FOR SERVICE SWITCHBOARD.</li> </ul>
1.5	<p><b>REQUIREMENTS OF REGULATORY AGENCIES</b></p> <ul style="list-style-type: none"> <li>OBTAIN AND PAY FOR ALL PERMITS AND INSPECTIONS REQUIRED FOR THE WORK. COMPLY WITH ALL ORDINANCES PERTAINING TO WORK DESCRIBED HEREIN. PAY ALL EXPENSES ARISING FROM THE PROCUREMENT OF THESE CERTIFICATES AND INCLUDE IN THE BASE CONTRACT PRICE.</li> <li>INSTALL WORK UNDER THIS DIVISION PER DRAWINGS, SPECIFICATIONS, LATEST ADOPTED EDITION OF THE NATIONAL ELECTRICAL CODE, (NFPA-70) INCLUDING LOCAL AMENDMENTS AND INTERPRETATIONS, LOCAL ADOPTED BUILDING CODES, AND ANY SPECIAL CODES HAVING JURISDICTION OVER SPECIFIC PORTIONS OF WORK WITHIN COMPLETE INSTALLATION. IN EVENT OF CONFLICT, INSTALL WORK PER MOST STRINGENT REQUIREMENT AS DETERMINED BY ENGINEER. THIS DOES NOT RELIEVE THE CONTRACTOR FROM FURNISHING AND INSTALLING WORK SHOWN OR SPECIFIED WHICH MAY EXCEED THE REQUIREMENTS OF SUCH ORDINANCES, LAWS, REGULATIONS AND CODES.</li> <li>ALL MATERIALS, PRODUCTS, DEVICES, FIXTURES, FORMS OR TYPES OF CONSTRUCTION INCLUDED IN THIS PROJECT SHALL MEET OR EXCEED THE PUBLISHED REQUIREMENTS OF NATIONAL ELECTRICAL CODE (NEC), AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI), INSTITUTE OF ELECTRICAL AND ELECTRONICS ENGINEERS (IEEE) AND NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATIONS (NEMA). ALL EQUIPMENT SHALL BEAR THE UNDERWRITER'S LABORATORIES (UL) LABEL OR EQUIVALENT FROM APPROVED INDEPENDENT TESTING LABORATORY.</li> <li>ARRANGE, PAY FEES FOR AND COMPLETE WORK TO PASS REQUIRED TESTS BY AGENCIES HAVING AUTHORITY OVER WORK. DELIVER TO ENGINEER COPIES OF THE CERTIFICATES OF INSPECTION AND APPROVAL ISSUED BY AUC OR AUTHORITIES AND ORIGINAL COPY OF EACH CERTIFICATE TO OWNER.</li> <li>WHEN REQUIRED BY LAW OR REGULATIONS, THE GOVERNMENTAL AGENCY HAVING JURISDICTION FOR INSPECTIONS SHALL BE GIVEN REASONABLE NOTICE AND OPPORTUNITY TO INSPECT THE WORK. ANY WORK THAT IS ENCLOSED OR COVERED UP BEFORE SUCH INSPECTION AND TEST SHALL BE UNCOVERED AT THE CONTRACTOR'S EXPENSE. AFTER IT HAS BEEN INSPECTED, THE CONTRACTOR SHALL RESTORE THE WORK TO ITS ORIGINAL CONDITION AT HIS OWN EXPENSE.</li> </ul>	1.12	<p><b>EXISTING SWITCHGEAR</b></p> <p>REUSE EXISTING SWITCHGEAR AND PANELS IN PLACE WHERE SO INDICATED. MODIFY AS REQUIRED TO ACCOMMODATE NEW WORK. PROVIDE NEW CIRCUIT BREAKERS AND/OR FUSES AS REQUIRED. MATCH AIC RATINGS. REARRANGE EXISTING CIRCUITS WITHIN PANELS TO AGREE WITH NEW PANEL SCHEDULES. TRACE AND IDENTIFY ALL EXISTING CIRCUITS ON NEW RECORD PANEL SCHEDULES.</p>	3.4	<p><b>GUARANTEES</b></p> <ul style="list-style-type: none"> <li>FURNISH THE OWNER A WRITTEN GUARANTEE, STATING THAT IF THE WORKMANSHIP AND/OR MATERIAL EXECUTED UNDER THIS DIVISION IS PROVEN DEFECTIVE WITHIN (1) YEAR AFTER THE FINAL ACCEPTANCE BY THE OWNER, SUCH DEFECTS AND OTHER WORK DAMAGED WILL BE REPAIRED AND/OR REPLACED. SUBMIT WITH OPERATION AND MAINTENANCE MANUALS.</li> <li>WHENEVER THE CONTRACTOR HAS MANUFACTURER'S OR VENDORS GUARANTEES OR WARRANTIES FOR THEIR PARTICULAR EQUIPMENT OR COMPONENTS, AND DELIVER THEM TO THE OWNER. ALL GUARANTEES AND WARRANTIES PROVIDED SHALL BE REFERENCED TO THIS PROJECT.</li> <li>IN EVENT THAT SYSTEMS ARE PLACED IN OPERATION IN SEVERAL PHASES AT THE OWNER'S REQUEST, GUARANTEE WILL BEGIN ON DATE EACH SYSTEM OR ITEM OF EQUIPMENT IS ACCEPTED FOR SERVICE BY THE OWNER. PROVIDE O&amp;M MANUALS FOR ALL EQUIPMENT WHEN EQUIPMENT IS ACCEPTED FOR SERVICE BY THE OWNER.</li> <li>ALL GUARANTEES AND WARRANTIES SHALL INCLUDE LABOR AND MATERIAL AT THE SITE OF INSTALLATION FOR THE DURATION OF THE GUARANTEE PERIOD.</li> </ul>	3.15	<p><b>IDENTIFICATION</b></p> <ul style="list-style-type: none"> <li>PROVIDE ENGRAVED NAMEPLATES FOR ALL SWITCHBOARDS, PANELS, TRANSFORMERS, DISCONNECTS, MOTOR STARTERS, CONTACTORS, TIME SWITCHES AND CABINETS. NAMEPLATES SHALL BE WHITE LETTERS ON BLACK FOR NORMAL EQUIPMENT AND WHITE LETTERS ON RED FOR EMERGENCY EQUIPMENT. NAMEPLATES SHALL INCLUDE THE FOLLOWING INFORMATION AS APPLICABLE: <ul style="list-style-type: none"> <li>DESIGNATION (I.E. PANEL A); FUNCTION (I.E. AIR HANDLER AH-1); VOLTAGE, PHASE, WIRE (I.E. 480 VOLT, 3 PHASE, 4W); FEEDER SIZE (I.E. 4-#410 THWN CU #2 C); SOURCE (I.E. SWITCHBOARDS MSB).</li> </ul> </li> <li>JUNCTION, PULL AND CONNECTION BOXES: IDENTIFICATION OF SYSTEMS AND CIRCUITS SHALL INDICATE SYSTEM VOLTAGE AND CONTAINED CIRCUITS ON OUTSIDE OF BOX COVER. USE SELF-ADHESIVE MARKING TAPE LABELS AT EXPOSED LOCATIONS AND INDELEBIL BLACK MARKER ON CONCEALED BOXES. ALL FIRE ALARM BOXES SHALL HAVE COVERS PAINTED RED. ALL TEMPERATURE CONTROL BOXES SHALL HAVE COVERS PAINTED BLUE.</li> <li>BRANCH CIRCUIT CONDUCTORS SHALL BE IDENTIFIED IN EACH JUNCTION BOX AND PULL BOX WITH WIRE MARKERS AS MANUFACTURED BY T&amp;B, PANDUIT, 3M, OR IDEAL TO INDICATE PANEL/CIRCUIT NUMBER.</li> <li>JUNCTION BOX COVERS IN BRANCH CIRCUIT WIRING SHALL BE LABELED WITH PANEL AND CIRCUIT NUMBERS. JUNCTION BOX COVERS FOR SPECIAL SYSTEMS SHALL BE LABELED WITH SYSTEM NAME AND OTHER IDENTIFICATION AS DIRECTED. FOR EXAMPLE, "FIRE ALARM-ZONE 1". WHERE BOXES ARE INSTALLED FLUSH MOUNTED IN FINISHED AREAS OR SURFACE MOUNTED IN FINISHED AREAS, LABELING SHALL BE WITH ENGRAVED PLASTIC NAMEPLATE AS SPECIFIED HEREIN. WHERE BOXES ARE INSTALLED ABOVE ACCESSIBLE CEILINGS, LABELING MAY BE NEAT HAND WRITTEN LETTERING WITH INDELEBIL MARKER.</li> <li>DEVICE PLATES - SWITCHES AND RECEPTACLES: IDENTIFY THE PANELBOARD AND BRANCH CIRCUIT NUMBER FROM WHICH SERVED ON THE FRONT OF THE DEVICE PLATE WITH PERMANENT POLYESTER TAPE. LOCATED ALL LABELS AT THE BOTTOM OF THE PLATE IN THE SAME LOCATION THROUGHOUT.</li> </ul>
1.6	<p><b>DRAWINGS AND SPECIFICATIONS</b></p> <ul style="list-style-type: none"> <li>DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY. WORK CALLED FOR BY ONE IS BINDING AS IF CALLED FOR BY BOTH. ANY DISCREPANCIES BETWEEN DRAWINGS AND SPECIFICATIONS SHALL BE INSTALLED AS SHOWN ON THE DRAWINGS OR AS SPECIFIED IN THE SPECIFICATIONS UNLESS OTHERWISE ALLOWANCE SHALL SUBSEQUENTLY BE MADE TO THE CONTRACTOR BY REASON OF HIS FAILURE TO HAVE BROUGHT SAID DISCREPANCIES TO THE ATTENTION OF THE CONSULTANT DURING THE BIDDING PERIOD OR BY REASON OF ANY ERROR ON THE CONTRACTOR'S PART.</li> <li>DRAWINGS ARE SCHEMATIC AND DIAGRAMMATIC IN NATURE. DRAWINGS SHOW GENERAL RUN OF CIRCUITS AND LOCATIONS OF MATERIALS. THE CONTRACTOR SHALL REVIEW DRAWINGS AND SPECIFICATIONS PRIOR TO PLACEMENT OF WORK. RIGHT IS RESERVED TO CHANGE LOCATION OF EQUIPMENT AND DEVICES, AND ROUTING OF CONDUIT WITHIN 10 FEET, WITHOUT EXTRA COST TO OWNER (PRIOR TO ROUGH-IN).</li> <li>USE DIMENSIONS IN FIGURES, SHOP DRAWINGS, ETC. AND ACTUAL SITE MEASUREMENTS IN PREFERENCE TO SCALED DIMENSIONS. DO NOT SCALE DRAWINGS FOR EXACT SIZES OR LOCATIONS - USE DIMENSIONED DETAILS OR ACTUAL FIELD CONDITIONS. VERIFY ITEM MOUNTING HEIGHTS AS REQUIRED BY PROJECT CONDITIONS PRIOR TO ROUGH-IN.</li> <li>THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS IN MATTERS OF DIMENSIONS. DISCREPANCIES BETWEEN DIFFERENT DRAWINGS OR BETWEEN DRAWINGS AND SPECIFICATIONS, OR REGULATIONS AND CODES GOVERNING THE INSTALLATION SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER IN WRITING FOR DETERMINATION.</li> <li>LAYOUT EQUIPMENT AS SHOWN ON DRAWINGS AS CLOSE AS POSSIBLE. VERIFY ACCESS REQUIREMENTS FOR EQUIPMENT ACTUALLY FURNISHED AND ADJUST LAYOUT TO COMPLY WITH NEC 110. RIGHT IS RESERVED TO CHANGE LAYOUT WITHIN 10 FEET WITHOUT ADDITIONAL COST (PRIOR TO ROUGH-IN).</li> <li>ALL DEVICES, LIGHT FIXTURES, ETC. LOCATED IN CEILING TILES SHALL BE LOCATED IN THE CENTER OF THE CEILING TILE UNLESS OTHERWISE NOTED OR APPROVED TO DO OTHERWISE.</li> <li>THE CONTRACTOR IS RESPONSIBLE TO FIELD MEASURE AND CONFIRM THE MOUNTING HEIGHTS AND LOCATION OF ELECTRICAL EQUIPMENT WITH RESPECT TO COUNTERS, DOORWAYS, AND OTHER ARCHITECTURAL, MECHANICAL OR STRUCTURAL WORK. DO NOT SCALE DISTANCES OFF THE ELECTRICAL DRAWINGS. USE ACTUAL BUILDING DIMENSIONS.</li> <li>SPECIAL NOTICE: THERE IS EVIDENCE THAT CONTRACTOR HAS EXAMINED ALL EXISTING CONDITIONS, DRAWINGS AND SPECIFICATIONS RELATED TO WORK, AND IS INFORMED AS TO EXTENT AND CHARACTER OF WORK. LATER CLAIMS FOR LABOR AND MATERIALS REQUIRED DUE TO DIFFICULTIES ENCOUNTERED, WHICH COULD HAVE BEEN FORESEEN HAD EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED.</li> <li>ALL WORK CALLED FOR IN THIS SECTION OF THE PLANS AND SPECIFICATIONS SHALL BE PERFORMED UNDER THIS SECTION, REGARDLESS OF WHETHER SUCH WORK MAY ALSO HAVE BEEN CALLED FOR IN OTHER SECTION(S). DISCREPANCIES IN OR CONFLICTS AMONG THE VARIOUS PARTS OF THE CONTRACT DRAWINGS SHALL NOT RELIEVE CONTRACTOR OF HIS OBLIGATION TO PERFORM.</li> <li>NO ATTEMPT HAS BEEN MADE TO ESTABLISH THE REQUIRED SECTIONS OR SPLITS OF EQUIPMENT RELATIVE TO THE SIZE OF ACCESS INTO THE SPACE, BUILDING, ETC. CONTRACTOR SHALL ESTABLISH ALL SAID SPLITS, SECTIONS, ETC. NECESSARY TO INSTALL ELECTRICAL EQUIPMENT COMPLETE WITHOUT UNDUE DISASSEMBLY OF EQUIPMENT OR DEMOLITION OF BUILDING PARTS AT SITE OF WORK.</li> <li>CHARGES FOR EXTRA WORK ARE NOT ALLOWED UNLESS WORK IS AUTHORIZED BY WRITTEN ORDER FROM THE OWNER'S REPRESENTATIVE APPROVING CHARGES FOR WORK.</li> <li>CHECK ALL DOOR SWINGS SO LIGHTING CONTROL DEVICES ARE NOT LOCATED BEHIND DOORS. RELOCATE DEVICES AS REQUIRED WITH THE CONSULTANT'S REVIEW.</li> </ul>	1.13	<p><b>EXISTING PANELBOARDS</b></p> <ul style="list-style-type: none"> <li>RING OUT CIRCUITS IN EXISTING PANELS, WHERE ADDITIONAL CIRCUITS ARE NEEDED REUSE CIRCUITS AVAILABLE TO REUSE. INSTALL NEW BREAKERS AS INDICATED ON DRAWINGS. MATCH AIC RATINGS.</li> <li>TAG UNUSED CIRCUITS AS SPARE.</li> <li>WHERE EXISTING CIRCUITS ARE INDICATED TO BE REUSED, USE SENSING MEASURING DEVICES TO VERIFY THAT CIRCUITS FEEDING PROJECT AREA ARE NOT IN USE OR OVERLOADED.</li> <li>REMOVE EXISTING WIRE NO LONGER IN USE FROM PANEL TO EQUIPMENT.</li> <li>PROVIDE NEW UPDATED TYPED DIRECTORIES.</li> </ul>	3.5	<p><b>OBSERVATIONS OF WORK AND DEMONSTRATION OF OPERATION (ACCEPTANCE)</b></p> <ul style="list-style-type: none"> <li>AT ALL OBSERVATIONS OF WORK, OPEN PANEL COVERS, JUNCTION BOX COVERS, PULL BOX COVERS, DEVICE COVERS, AND OTHER EQUIPMENT WITH REMOVABLE PLATES FOR OBSERVATION AS REQUESTED BY AHJ OR ENGINEER. PROVIDE SUFFICIENT PERSONNEL TO EXPEDITE COVER REMOVAL AND REPLACEMENT.</li> <li>CONTRACTOR TO DEMONSTRATE OPERATION OF NEW EQUIPMENT AND/OR SYSTEMS TO SATISFACTION OF OWNERS/ENGINEER. CONTRACTOR TO HAVE MANUFACTURER AVAILABLE FOR DEMONSTRATION OF EQUIPMENT AND/OR SYSTEMS WHERE REQUESTED BY OWNER/ENGINEER. FURNISH AFFIDAVIT SIGNED BY OWNER'S REPRESENTATIVE INDICATING THAT DEMONSTRATION OF OPERATION HAS BEEN PERFORMED.</li> </ul>	3.16	<p><b>SUSPENDED CEILING SYSTEMS</b></p> <p>ALL LAY-IN FIXTURES SHALL BE INDEPENDENTLY SUPPORTED BY TWO #12 SLACK WIRES ATTACHED TO TWO OPPOSITE CORNERS OF THE FIXTURE PER IBC &amp; NEC REQUIREMENTS. THESE WIRES SHALL BE SECURED TO THE STRUCTURAL FRAMING SUCH THAT FAILURE OF THE SUSPENDED CEILING SHALL NOT ALLOW THE FIXTURE TO DROP.</p>
1.7	<p><b>COPYRIGHT</b></p> <p>THESE PLANS, SPECIFICATIONS, AND ALL RELATED ADDENDA AND DOCUMENTS CONSTITUTE COPYRIGHT MATERIALS OF PK ELECTRICAL. ALL RIGHTS CONFERRED BY THE COPYRIGHT AND SIMILAR LAWS ARE RESERVED TO PK ELECTRICAL. THESE MATERIALS SHALL REMAIN THE SOLE PROPERTY OF PK ELECTRICAL AND MAY NOT BE REPRODUCED, DISTRIBUTED, TO OTHERS OR USED FOR ANY PURPOSE WHATSOEVER WITHOUT THE PRIOR WRITTEN CONSENT OF PK ELECTRICAL.</p>	2.1	<p><b>PART 2 - PRODUCTS MATERIALS</b></p> <ul style="list-style-type: none"> <li>ALL MATERIAL SHALL BE NEW, AND HAVE A UL LABEL WHERE AVAILABLE. IF UL LABEL IS NOT AVAILABLE, MATERIAL SHALL BE MANUFACTURED IN ACCORDANCE WITH APPLICABLE NEMA, IEEE AND FEDERAL STANDARDS. USE UL LABELED COMPONENTS IN ASSEMBLIES THAT DO NOT HAVE A LABEL. ALL EQUIPMENT SHALL COMPLY WITH THE TERMS "LISTED AND LABELED" AS DEFINED IN THE NEC 70, ARTICLE 100. SUBMIT LETTER STATING COMPLIANCE WITH THESE REQUIREMENTS.</li> <li>UTILIZE ONE OF THE MANUFACTURER'S LISTED TO FURNISH ALL OF THE MAJOR EQUIPMENT (I.E. PANELS, TRANSFORMERS, BUS DUCT, SWITCHGEAR, CIRCUIT BREAKERS, ETC.) REQUIRED FOR THIS PROJECT.</li> <li>ALL MATERIAL AND EQUIPMENT SHALL BE NEW AND OF THE HIGHEST QUALITY AVAILABLE ("SPECIFICATION GRADE"). SERVICE EQUIPMENT SHALL BE FACTORY-ASSEMBLED COMMERCIAL-GRADE, CONFIGURED PER SERVING UTILITY STANDARDS. WIRING DEVICES SHALL BE SPECIFICATION GRADE WITH NYLON PLATES. WHITE UNLESS OTHERWISE NOTED, RAISED STEEL BOX COVERS MAY BE USED IN UTILITY AREAS.</li> <li>ALL EQUIPMENT AND CIRCUITING ACCESSIBLE BY THE PUBLIC SHALL BE TAMPER-PROOF AND VANDAL RESISTANT. OPENABLE DEVICES AND EQUIPMENT SHALL BE PADLOCKABLE.</li> </ul>	3.6	<p><b>COOPERATION</b></p> <ul style="list-style-type: none"> <li>CAREFULLY COORDINATE WORK WITH OTHER CONTRACTORS AND SUBCONTRACTORS. REFER CONFLICTS BETWEEN TRADES TO ENGINEER FOR RESOLUTION. PROVIDE NEW INFORMATION TO OTHERS AS SUCH COORDINATION. SUCH INFORMATION SHALL INCLUDE SHOP DRAWINGS, PRODUCT DATA AND ALL OTHER REQUIRED DATA. PROVIDE A SYSTEM ERECTION/COORDINATION DRAWING SHOWING ELECTRICAL, HVAC, PLUMBING AND ARCHITECTURAL FOR INSTALLATION IN CONGESTED AREAS, WHEN REQUESTED.</li> <li>WHENEVER SUCH INFORMATION IS NOT PROVIDED IN A TIMELY MANNER OR WHENEVER SUCH INFORMATION IS INCORRECT, THIS CONTRACTOR SHALL BEAR ALL COSTS FOR PROVIDING OR CORRECTING AFFECTED WORK OR RELATED TRADES WITH NO CHANGE TO THE CONTRACT PRICE OR CONSTRUCTION SCHEDULE.</li> <li>WORK TO BE INSTALLED AS PROGRESS OF PROJECT WILL ALLOW. SCHEDULE OF WORK DETERMINED BY GENERAL CONTRACTOR, OWNER, AND/OR ARCHITECT/ENGINEER.</li> </ul>	3.17	<p><b>ONGOING OPERATION</b></p> <p>CONDUCT WORK TO MINIMIZE DISRUPTION OF OWNER'S ONGOING OPERATIONS. PROVIDE BARRICADES, NOISE ABATEMENT AND DUST CONTAINMENT MEASURES TO ENSURE THE SAFETY AND COMFORT OF PATRONS, STAFF, AND WORKERS. INTERRUPTIONS OF EXISTING POWER, COMMUNICATIONS OR FIRE ALARM SYSTEMS SHALL BE PERFORMED ONLY AT SUCH TIMES AS DIRECTED BY GENERAL CONTRACTOR / OWNER. OUTAGES SHALL BE MOMENTARY IN NATURE. EACH SUCH OUTAGE (OR OPERATION WHICH MAY POSE RISK OF AN ACCIDENTAL OUTAGE) SHALL BE SCHEDULED 48 HOURS IN ADVANCE.</p>
		2.2	<p><b>CIRCUITING</b></p> <p>ALL WIRING SHALL BE CONDUIT, CONCEALED EXCEPT WHERE NOTED. EMT WITH STEEL SET SCREW INSULATED-THROAT FITTINGS SHALL BE USED IN DRY, PROTECTED INTERIOR LOCATIONS. PVC SCHEDULE 40 SHALL BE USED BELOW GRADE AT MINIMUM 24" WRAPPED RIGID ELBOWS AND RISERS SHALL BE USED FOR ALL THROUGH-GRADE AND CONCRETE SLAB TRANSITIONS AND STUB UPS. RGS OR IMC CONDUIT WITH THREADED FITTINGS SHALL BE USED IN ALL LOCATIONS WHERE EXPOSED TO THE ELEMENTS OR SUBJECT TO PHYSICAL DAMAGE. FMC MAY BE USED FOR FINAL CONNECTION TO LIGHTING FIXTURE FROM J-BOX. FIXTURE WHIPS MAY NOT EXCEED 6' IN LENGTH. METAL CLAD CABLE (TYPE MC) WILL BE ACCEPTABLE FOR SINGLE CIRCUIT BRANCH CIRCUITING, FLEXIBLE WHIPS FROM JUNCTION BOXES TO LIGHTING FIXTURES AND WITHIN CASEWORK. TYPE MC CABLE MAY NOT BE USED FOR HOMERUNS. ENT IS NOT ALLOWED. CONNECT RECESSED AND SUSPENDED LIGHTING FIXTURES, MOTORIZED AND VIBRATING EQUIPMENT WITH STEEL FLEX. ALL CONDUIT SHALL HAVE A PULL CORD IF OTHERWISE EMPTY. CONNECT PUMP MOTORS WITH LIQUID TIGHT FLEXIBLE METAL CONDUIT.</p>	3.7	<p><b>COORDINATION OF UTILITY SERVICES</b></p> <ul style="list-style-type: none"> <li>DRAWINGS INDICATE PROPOSED SERVICE LAYOUTS. THE CONTRACTOR SHALL PROVIDE ALL CONCRETE STRUCTURES, PULLBOXES, VAULTS, TRENCHING, RACEWAYS, PROTECTIVE BOLLARDS, ETC., AS REQUIRED PER UV ENERGY STANDARDS (ELECTRICAL UTILITY), AT&amp;T (TELEPHONE COMPANY) AND CHARTER (CATV UTILITY) STANDARDS.</li> <li>CONTRACTOR IS RESPONSIBLE FOR SUBMITTING PROJECT DRAWINGS, APPLICATION, AND EQUIPMENT SHOP DRAWINGS TO THE UTILITY. UTILITY FEES TO BE PAID BY PROJECT OWNER.</li> </ul>	3.18	<p><b>FLEXIBLE CONNECTIONS</b></p> <p>PROVIDE FLEXIBLE ELECTRICAL CONDUIT AND CONDUCTORS HAVING A SLACK, 90-DEGREE BEND OR LOOP IN ANY PLACE BETWEEN CONNECTIONS AT ALL VIBRATION ISOLATED EQUIPMENT AND THE FIRST ATTACHMENT TO BUILDING STRUCTURE OR CABINETS, PANELS OR BOXES MOUNTED THERON.</p>
		2.3	<p><b>WIRING</b></p> <ul style="list-style-type: none"> <li>WIRE SHALL BE COPPER UNLESS OTHERWISE INDICATED. MINIMUM WIRE SIZE SHALL BE #12 AWG, WHERE ALUMINUM IS ALLOWED. WIRE SHALL BE TERMINATED IN AN INSULATED CU/AL RATED COMPRESSION TERMINAL FITTING (MAC-ADAPT OR EQUAL). INSULATION SHALL BE THW, THWN OR THHN.</li> <li>UNLESS OTHERWISE REQUIRED BY LOCAL ORDINANCES, GROUND WIRES SHALL BE GREEN, NEUTRAL WIRES SHALL BE WHITE (120V) OR GREY (277V) AND PHASE WIRES SHALL BE BLACK (PHASE A), RED (PHASE B), AND BLUE (PHASE C) FOR A 120/208 VOLT SYSTEM AND BROWN (PHASE A), ORANGE (PHASE B), AND YELLOW (PHASE C) FOR A 277/480 VOLT SYSTEM.</li> </ul>	3.8	<p><b>HVAC CONTROL WIRING</b></p> <ul style="list-style-type: none"> <li>CONTROL WIRING INCLUDING LOW VOLTAGE AND LINE VOLTAGE INTERLOCK WIRING WILL BE FURNISHED AND INSTALLED UNDER DIVISION 23, EXCEPT WHERE SPECIFICALLY SHOWN OTHERWISE. CAREFULLY COORDINATE POWER AND CONTROL WIRING INTERFACE.</li> <li>THIS CONTRACTOR SHALL OBTAIN FROM DIVISION 23 ALL WIRING DIAGRAMS ASSOCIATED WITH THE HVAC WORK AND FURNISH ALL POWER AND 120V CONTROL WIRING, DISCONNECTS AND STARTERS FOR EQUIPMENT NOT ALREADY PACKAGED WITH THESE ITEMS. THE CONTRACTOR SHALL INCLUDE IN HIS BID CONNECTIONS, DISCONNECTS AND CIRCUITING FOR ALL ADDED AND RELOCATED EQUIPMENT AS DIRECTED BY THE TEMPERATURE CONTROLS CONTRACTOR EVEN IF IT IS NOT SHOWN ON THE BID DRAWINGS. ALL WIRING ASSOCIATED WITH THE HVAC TEMPERATURE CONTROL SYSTEM IS INCLUDED UNDER DIVISION 23. WIRING AND CONDUIT SHALL COMPLY WITH DIVISION 26. ALL ELECTRICAL WORK ASSOCIATED WITH THE HVAC SYSTEM SHALL BE DONE UNDER THE SUPERVISION OF DIVISION 23.</li> </ul>	3.19	<p><b>DISPOSAL PROCEDURES (FLUORESCENT BULBS, BALLASTS, AND LIGHT FIXTURES)</b></p> <ul style="list-style-type: none"> <li>THESE MATERIALS DO NOT REQUIRE SPECIAL TRAINING TO REMOVE OR PACKAGE.</li> <li>THE CONTRACTOR SHALL CONTRACT WITH WASTE MANAGEMENT LAMPTRACKER OR SIMILAR RECYCLING COMPANY TO RECYCLE THE LAMPS (FLUORESCENT BULBS) AND BALLASTS REMOVED DURING THE PROJECT. THE COSTS TO RECYCLE THESE MATERIALS IS THE RESPONSIBILITY OF THE CONTRACTOR. THE DISPOSAL AND COSTS OF NON-REGULATED MATERIALS (LIGHT FIXTURES) IS THE RESPONSIBILITY OF THE CONTRACTOR. THE CONTRACTOR IS REQUIRED TO RECYCLE AS MUCH MATERIAL AS POSSIBLE.</li> </ul>
		2.4	<p><b>WIRING DEVICES</b></p> <p>WIRING DEVICES SHALL BE AS FOLLOWS:</p> <ul style="list-style-type: none"> <li>RECEPTACLES - 120V, 20A, NEMA 5-20R, SPECIFICATION GRADE, SIDE AND BACK WIRED WITH CLAMP TYPE TERMINALS. NYLON, WHITE, 2 POLE, 3 WIRE GROUNDING.</li> <li>SWITCHES - 120V/277V, 20A, WHITE, HEAVY DUTY, SILENT TYPE SPECIFICATIONS GRADE.</li> <li>DEVICE PLATE SHALL BE NYLON, WHITE COLOR WITH MATCHING SCREWS.</li> <li>RECEPTACLES IN WET LOCATIONS SHALL BE INSTALLED WITH A HINGED OUTLET COVER/ENCLOSURE CLEARLY MARKED SUITABLE FOR WET LOCATIONS WHILE IN USE AND UL LISTED EQUAL TO TAY MAC SPECIFICATIONS GRADE.</li> </ul>	3.9	<p><b>STARTERS</b></p> <p>SEPARATELY MOUNTED STARTERS ARE FURNISHED AND INSTALLED UNDER DIVISION 26 UNLESS SPECIFICALLY SHOWN OTHERWISE. ALL POWER WIRING, FUSES, THERMAL OVERLOADS, AND DISCONNECT SWITCHES AND CONNECTION OF ALL MOTORS IS UNDER THIS DIVISION. PROVIDE THE PROPER FUSING AND THERMAL OVERLOADS AS RECOMMENDED BY THE MANUFACTURER OF THE EQUIPMENT.</p>	3.20	<p><b>SALVAGE</b></p> <p>ALL EXISTING EQUIPMENT REMOVED DURING THE COURSE OF THIS PROJECT SHALL BE OFFERED TO OWNER FOR SALVAGE. ANY EQUIPMENT SELECTED BY OWNER SHALL BE DELIVERED TO OWNER ON SITE. ALL REMAINING EQUIPMENT BECOMES THE PROPERTY OF THIS CONTRACTOR AND SHALL BE REMOVED FROM THE SITE.</p>
		2.5	<p><b>DELIVERY, STORAGE AND HANDLING</b></p> <p>DELIVER EQUIPMENT AND MATERIALS TO JOB SITE IN ORIGINAL, UNOPENED, LABELED CONTAINER. PRODUCTS SHALL BE PROPERLY IDENTIFIED WITH NAMES, MODEL NUMBERS, TYPES, GRADES, COMPLIANCE LABELS AND OTHER INFORMATION NEEDED FOR IDENTIFICATION. STORE TO PREVENT DAMAGE AND INJURY. STORE MATERIALS TO PREVENT CORRODING. STORE FINISHED MATERIALS AND EQUIPMENT TO PREVENT STAINING AND DISCOLORING. STORE MATERIALS AFFECTED BY CONDENSATION IN WARM DRY AREAS. PROVIDE HEATERS, CONTRACTOR SHALL VERIFY THE AVAILABILITY OF ON SITE STORAGE SPACE. IF NO ON SITE STORAGE IS AVAILABLE, THE CONTRACTOR SHALL COVER THE COST FOR OFF SITE STORAGE. MATERIALS STORED AT THE PROJECT SITE THAT BECOMES SOILED WITH CONSTRUCTION DIRT, CONCRETE, OR MOISTURE SHALL BE REMOVED FROM THE SITE AND REPLACE WITH NEW. DO NOT INSTALL SOILED MATERIAL.</p>	3.10	<p><b>SEISMIC PROTECTION</b></p> <ul style="list-style-type: none"> <li>THIS PROJECT IS SUBJECT TO THE SEISMIC BRACING REQUIREMENT OF THE INTERNATIONAL BUILDING CODE, 2018 EDITION. THE FOLLOWING CRITERIA ARE APPLICABLE TO THIS PROJECT: <ul style="list-style-type: none"> <li>SEISMIC USE GROUP: II</li> <li>SEISMIC CLASS CATEGORY: D</li> <li>SEISMIC DESIGN CATEGORY: D</li> </ul> </li> <li>IT IS RECOMMENDED THAT THE CONTRACTOR ENLIST THE SERVICES OF A QUALIFIED SEISMIC BRACING VENDOR/SUPPLIER. PROVIDE BRACING FOR IDENTIFIED EQUIPMENT AND SYSTEM.</li> <li>ELECTRICAL EQUIPMENT: ELECTRICAL EQUIPMENT SHALL INCLUDE THE FOLLOWING ITEMS TO THE EXTENT REQUIRED ON THE DRAWINGS OR IN OTHER SECTIONS OF THESE SPECIFICATIONS TO BE SEISMICALLY PROTECTED: <ul style="list-style-type: none"> <li>LIGHT FIXTURES, TRANSFORMERS, SWITCHBOARDS, PANELBOARDS.</li> </ul> </li> <li>ELECTRICAL SYSTEMS: THE FOLLOWING ELECTRICAL SYSTEMS SHALL BE SEISMICALLY PROTECTED IN ACCORDANCE WITH THIS SPECIFICATION: <ul style="list-style-type: none"> <li>LIGHTING, POWER, SECURITY, COMMUNICATIONS AND FIRE ALARM.</li> </ul> </li> <li>CONDUITS REQUIRING NO SPECIAL SEISMIC RESTRAINTS: SEISMIC RESTRAINTS MAY BE OMITTED FROM ELECTRICAL CONDUIT LESS THAN 2-1/2 INCHES TRADE SIZE. ALL OTHER INTERIOR CONDUIT SHALL BE SEISMICALLY PROTECTED AS SPECIFIED.</li> </ul>	3.21	<p>END OF SECTION 260000</p>

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Electrical Specifications

February 26, 2021  
 H+K Project No: 2022

**E002**

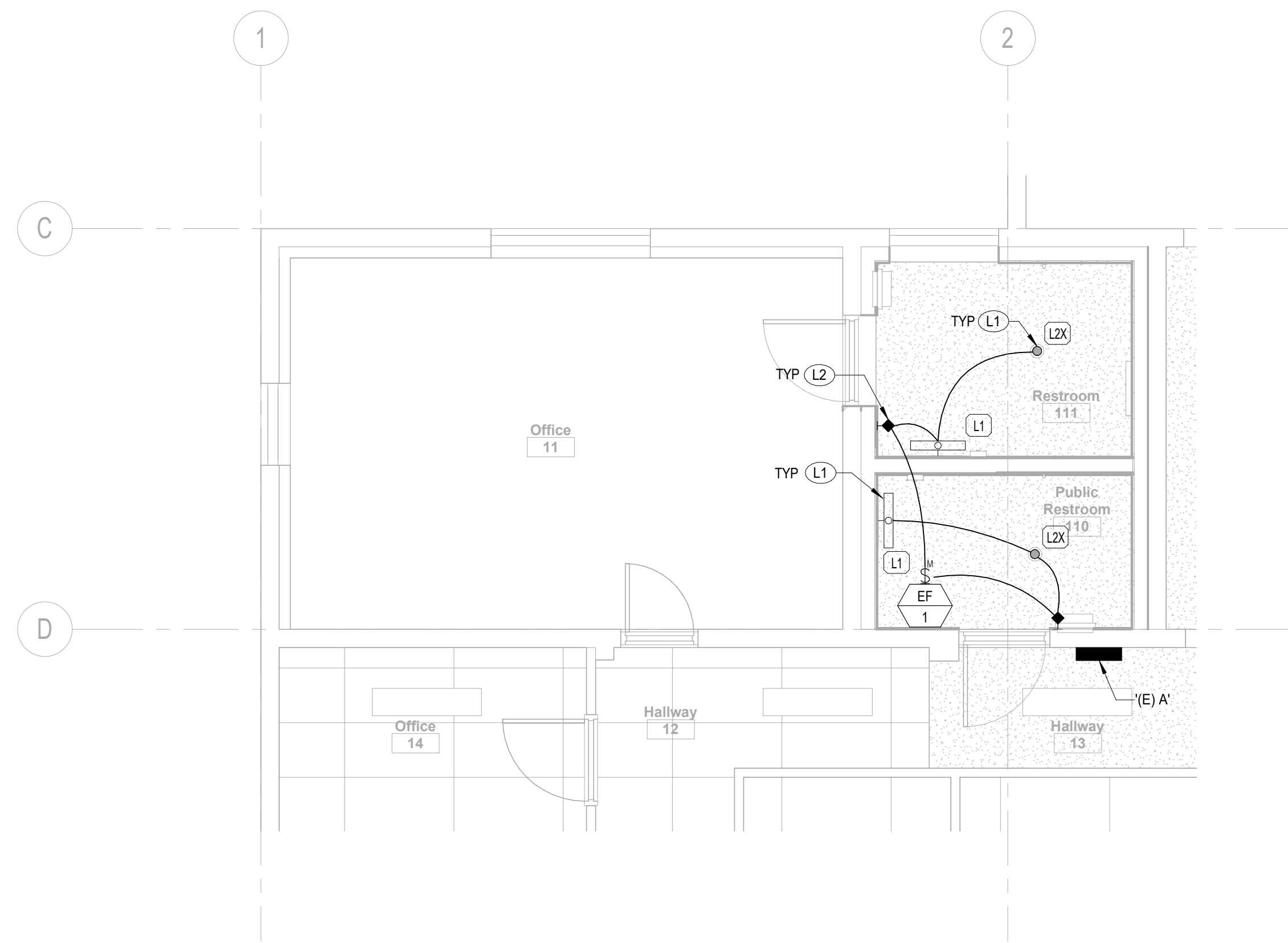


### SHEET NOTES

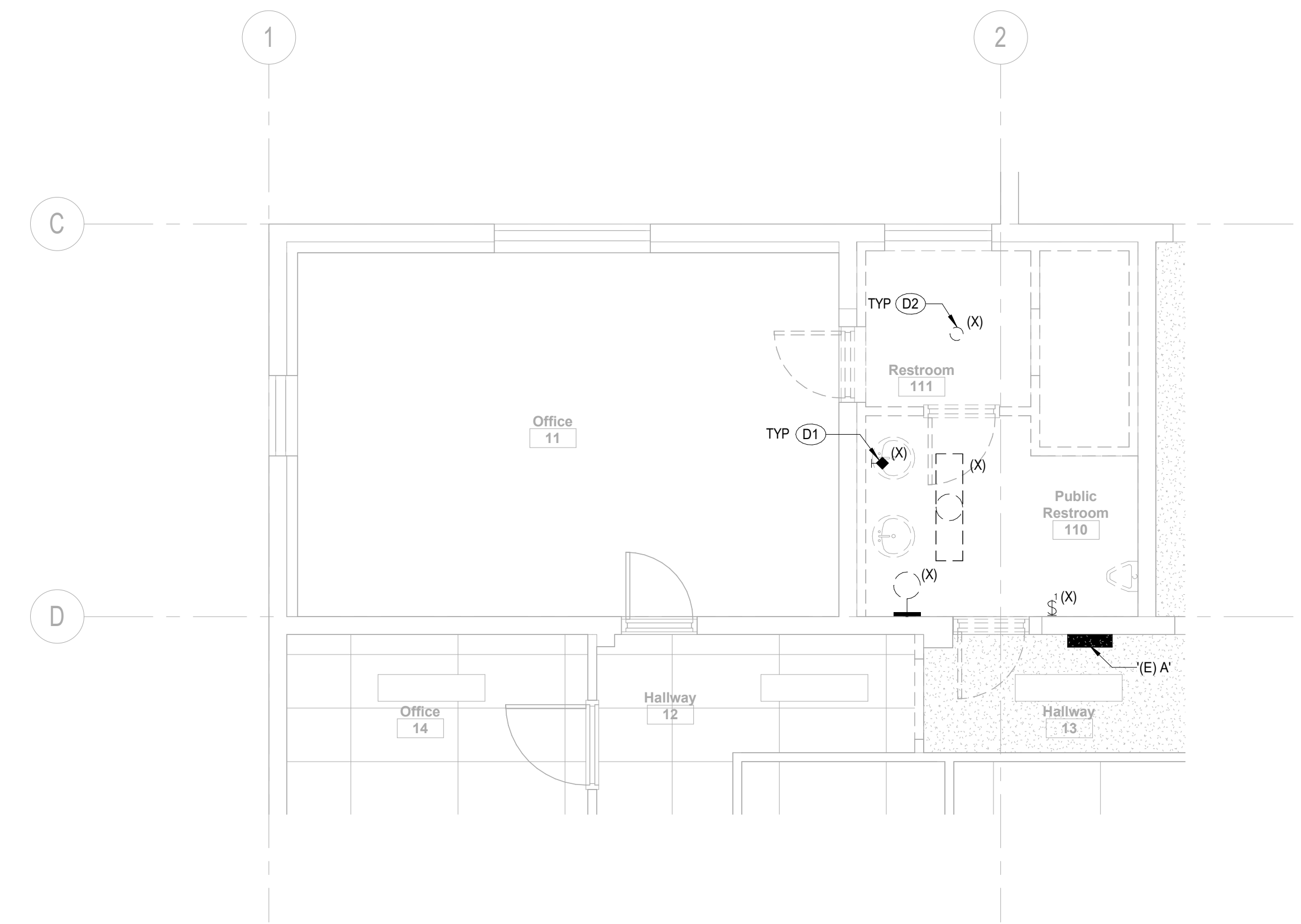
- D1 EXISTING DEVICE SHALL BE DISCONNECTED AND REMOVED. REMOVE ALL CONDUIT AND WIRE BACK TO TERMINATION POINT. MAINTAIN CIRCUIT INTEGRITY FOR ANY DEVICES THAT SHARE THE SAME CIRCUIT AND ARE EXISTING TO REMAIN. REMOVE ALL ABANDONED, EXPOSED CONDUIT AND RACEWAY.
- D2 DEMOLISH LIGHT FIXTURE. MAINTAIN INTEGRITY OF EXISTING CIRCUITING FOR CONNECTION TO NEW FIXTURE. SEE NEW WORK PLAN
- L1 CONNECT TO EXISTING CIRCUIT MADE AVAILABLE DURING DEMOLITION.
- L2 CONNECT EXHAUST FAN CONTROL TO OCCUPANCY SENSOR.

GENERAL NOTES

1. (E) AND/OR SOLID HALF ONE LINES INDICATE EXISTING EQUIPMENT, (R) AND/OR DASHED LINES INDICATE RELOCATED EQUIPMENT, (N) AND/OR SOLID LINES INDICATE NEW EQUIPMENT UNLESS NOTED OTHERWISE.
2. SALVAGEABLE ITEMS REMOVED DURING DEMOLITION SHALL BE OFFERED TO OWNER PRIOR TO DISPOSAL OR REMOVAL FROM SITE.
3. EXISTING CIRCUITS AS INDICATED ARE BASED ON CASUAL FIELD OBSERVATION AND INFORMATION PER RECORD DRAWINGS AND SHALL BE FIELD VERIFIED BY ELECTRICAL CONTRACTOR PRIOR TO START OF DEMOLITION WORK.
4. THE CONTRACTOR MAY SALVAGE AND REUSE EXISTING BOXES AND CONDUIT WHERE POSSIBLE. DAMAGED CONDUIT, FITTINGS BOXES, ETC. MAY NOT BE RE-USED. NEW CIRCUITING AS INDICATED ON THE DRAWINGS IS SHOWN FOR INTENT ONLY AND MAY VARY BASED ON ACTUAL FIELD CONDITIONS (NEW CIRCUITING SHALL MATCH EXISTING WHERE POSSIBLE TO UTILIZE EXISTING HOME-RUN CONDUITS, ETC.). KEEP AS-BUILT DRAWINGS CURRENT WITH ANY DEVIATION IN CIRCUITING FROM WHAT IS INDICATED WITHIN THESE PLANS.
5. THE CONTRACTOR SHALL REMOVE FROM THE JOB SITE ALL DISCARDED AND ABANDONED MATERIALS LEFT OVER FROM DEMOLITION AND INSTALLATION. THIS INCLUDES, BUT IS NOT LIMITED TO, CONDUIT, FASTENERS AND BOXES. MATERIALS EMBEDDED IN GRADE AND / OR CONCRETE MAY BE ABANDONED IN PLACE. ALL ABANDONED CONDUIT SHALL BE CAPPED.
6. REFER TO ARCHITECTURAL REFLECTED CEILING PLANS, SECTIONS, ELEVATIONS, ETC. FOR EXACT LOCATION OF LIGHT FIXTURES.
7. CONTRACTOR SHALL BE RESPONSIBLE FOR RECONNECTING EXISTING LIGHT FIXTURES DISCONNECTED DURING DEMOLITION PHASE. ALL EXISTING SYSTEMS SHALL BE IN WORKING CONDITION UPON COMPLETION OF CONSTRUCTION.
8. CONTRACTOR SHALL REPLACE BROKEN DEVIES, COVER PLATES, ETC. WHERE NECESSARY WITHIN AREA OF SCOPE.
9. REUSE EXISTING CONDUIT SYSTEMS FOR NEW WORK TO EXTENT POSSIBLE WHERE EXISTING LIGHT FIXTURES, DEVICES, ETC. ARE REMOVED DRING DEMOLITION PHASE.
10. CONTRACTOR SHALL ARRANGE FOR WALL OPENINGS LEFT OVER FROM DEMOLITION OF DEVICES TO BE PATCHED. BLANK COVER PLATES ARE NOT PERMITTED.

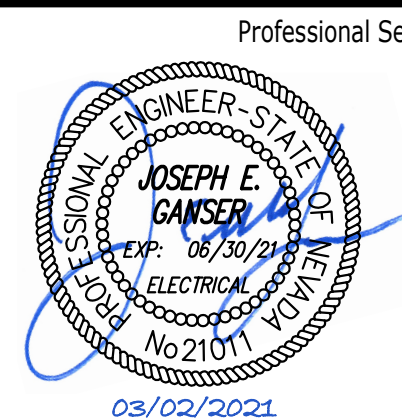


2 Lighting Plan  
E201 Scale: 1/4" = 1'-0"

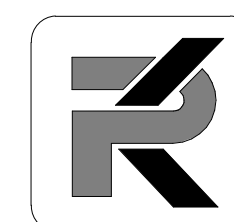


1 Demolition Lighting Plan  
E201 Scale: 1/4" = 1'-0"

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Lighting Plans

February 26, 2021  
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**E201**

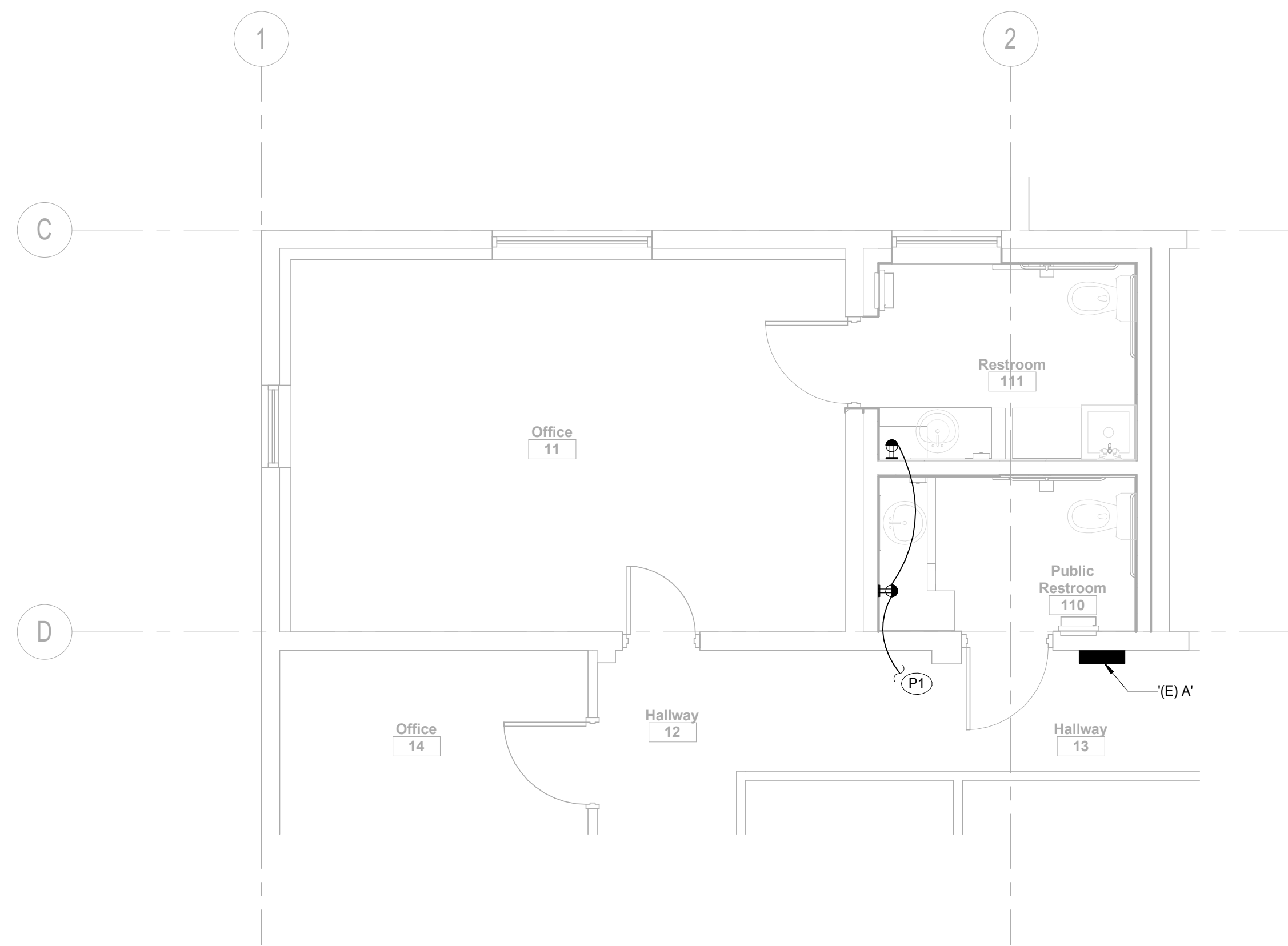


### SHEET NOTES

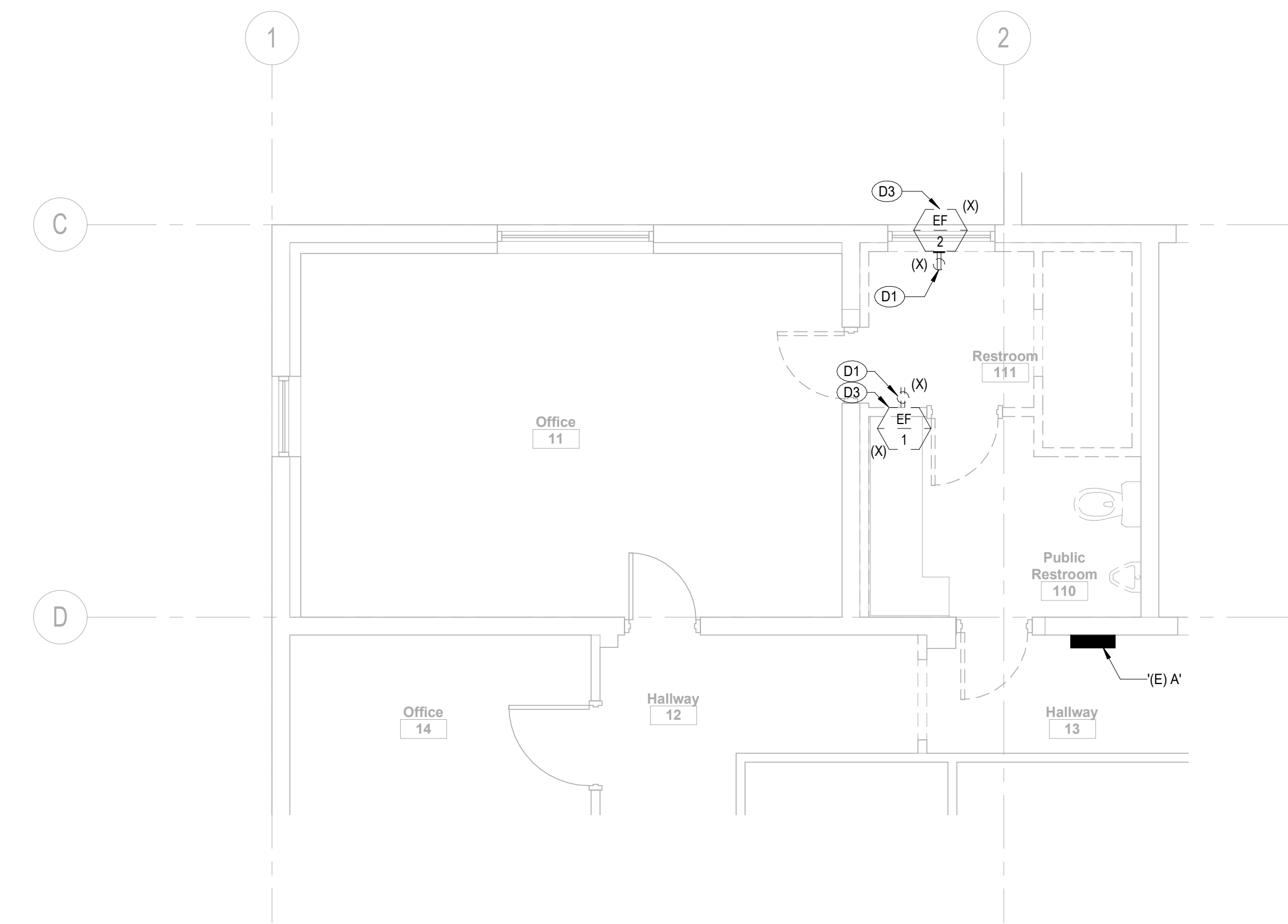
- D1 EXISTING DEVICE SHALL BE DISCONNECTED AND REMOVED. REMOVE ALL CONDUIT AND WIRE BACK TO TERMINATION POINT. MAINTAIN CIRCUIT INTEGRITY FOR ANY DEVICES THAT SHARE THE SAME CIRCUIT AND ARE EXISTING TO REMAIN. REMOVE ALL ABANDONED, EXPOSED CONDUIT AND RACEWAY.
- D3 EQUIPMENT TO BE DISCONNECTED BY ELECTRICAL CONTRACTOR AND REMOVED BY OTHERS. REMOVE DISCONNECT, CONDUIT, AND WIRE BACK TO POINT OF TERMINATION AND ALL OTHER ASSOCIATED ELECTRICAL COMPONENTS.
- P1 CONNECT TO EXISTING CIRCUIT MADE AVAILABLE DURING DEMOLITION.

GENERAL NOTES

1. (E) AND/OR SOLID HALFTONE LINES INDICATE EXISTING EQUIPMENT, (R) AND/OR DASHED LINES INDICATE RELOCATED EQUIPMENT, (N) AND/OR SOLID LINES INDICATE NEW EQUIPMENT UNLESS NOTED OTHERWISE.
2. SALVAGEABLE ITEMS REMOVED DURING DEMOLITION SHALL BE OFFERED TO OWNER PRIOR TO DISPOSAL OR REMOVAL FROM SITE.
3. EXISTING CIRCUITS AS INDICATED ARE BASED ON CASUAL FIELD OBSERVATION AND INFORMATION PER RECORD DRAWINGS AND SHALL BE FIELD VERIFIED BY ELECTRICAL CONTRACTOR PRIOR TO START OF DEMOLITION WORK.
4. THE CONTRACTOR MAY SALVAGE AND REUSE EXISTING BOXES AND CONDUIT WHERE POSSIBLE. DAMAGED CONDUIT, FITTINGS BOXES, ETC. MAY NOT BE RE-USED. NEW CIRCUITING AS INDICATED ON THE DRAWINGS IS SHOWN FOR INTENT ONLY AND MAY VARY BASED ON ACTUAL FIELD CONDITIONS (NEW CIRCUITING SHALL MATCH EXISTING WHERE POSSIBLE TO UTILIZE EXISTING HOME-RUN CONDUITS, ETC.). KEEP AS-BUILT DRAWINGS CURRENT WITH ANY DEVIATION IN CIRCUITING FROM WHAT IS INDICATED WITHIN THESE PLANS.
5. THE CONTRACTOR SHALL REMOVE FROM THE JOB SITE ALL DISCARDED AND ABANDONED MATERIALS LEFT OVER FROM DEMOLITION AND INSTALLATION. THIS INCLUDES, BUT IS NOT LIMITED TO, CONDUIT, FASTENERS AND BOXES. MATERIALS EMBEDDED IN GRADE AND / OR CONCRETE MAY BE ABANDONED IN PLACE. ALL ABANDONED CONDUIT SHALL BE CAPPED.
6. CONTRACTOR SHALL REPLACE BROKEN DEVICES, COVER PLATES, ETC. WHERE NECESSARY WITHIN AREA OF SCOPE.
7. REUSE EXISTING CONDUIT SYSTEMS FOR NEW WORK TO EXTENT POSSIBLE WHERE EXISTING LIGHT FIXTURES, DEVICES, ETC. ARE REMOVED DURING DEMOLITION PHASE.
8. CONTRACTOR SHALL ARRANGE FOR WALL OPENINGS LEFT OVER FROM DEMOLITION OF DEVICES TO BE PATCHED. BLANK COVER PLATES ARE NOT PERMITTED.
9. ALL EXISTING CABLING, CONDUIT AND BOXES WITHIN IMMEDIATE AREA OF SCOPE NOT SUPPORTED IN ACCORDANCE WITH NEC AND NFPA SHALL BE RE-SUPPORTED AS REQUIRED. PROVIDE NEW COVERS FOR AN OPEN JUNCTION OR PULL BOXES WITHIN IMMEDIATE AREA OF SCOPE. INSTALLATIONS OR CONDITIONS FOUND TO VIOLATE BUILDING CODE SHALL BE BROUGHT TO THE ENGINEER'S ATTENTION IMMEDIATELY FOR ENGINEER'S RECOMMENDATION.
10. DEVICE PLATES FOR NEW DEVICES SHALL MATCH EXISTING COLOR/FINISH AND MATERIAL.

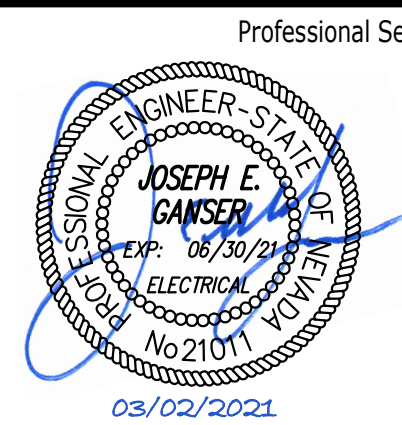


2 Power Plan  
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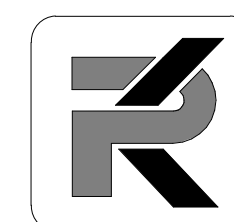
1 Demolition Power Plan  
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Power Plans

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**E301**

