

Sparks Public Works Bullpen Toilet Room Renovation

215 S 21st St
Sparks, NV 89431

City of Sparks
431 Prater Way
Sparks, Nevada 89432

May 28, 2021

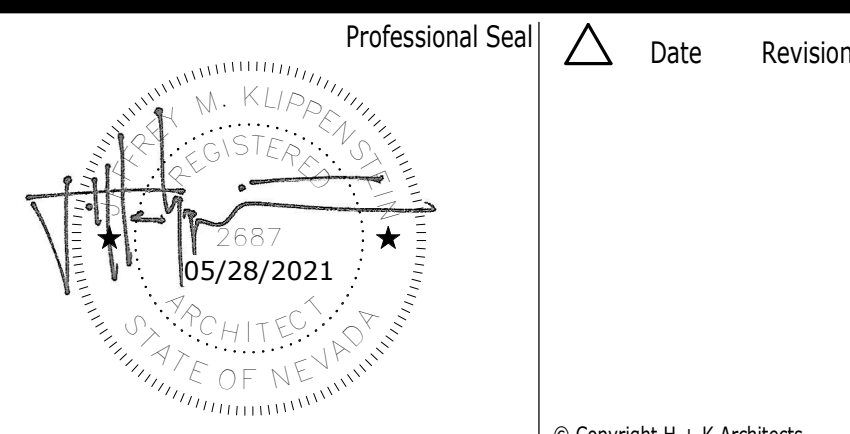
Jon R. Ericson, P.E., P.T.O.E.
City Engineer

Date

Permit Set

B:\11\2101 Sparks Public Works Bullpen\2101 Sparks Public Works Bullpen -R-.rvt

6/1/2021 8:06:42 AM



Consultant

H+K ARCHITECTS

5485 Reno Corporate Drive, Suite 100
Reno, Nevada 89511-2262

P 775+332+6640
F 775+332+6642

hkarchitects.com

**Sparks Public Works Bullpen
Toilet Room Renovation**

215 S 21st St
Sparks, NV 89431

Title Sheet

May 28, 2021
H+K Project No: 2101

G100

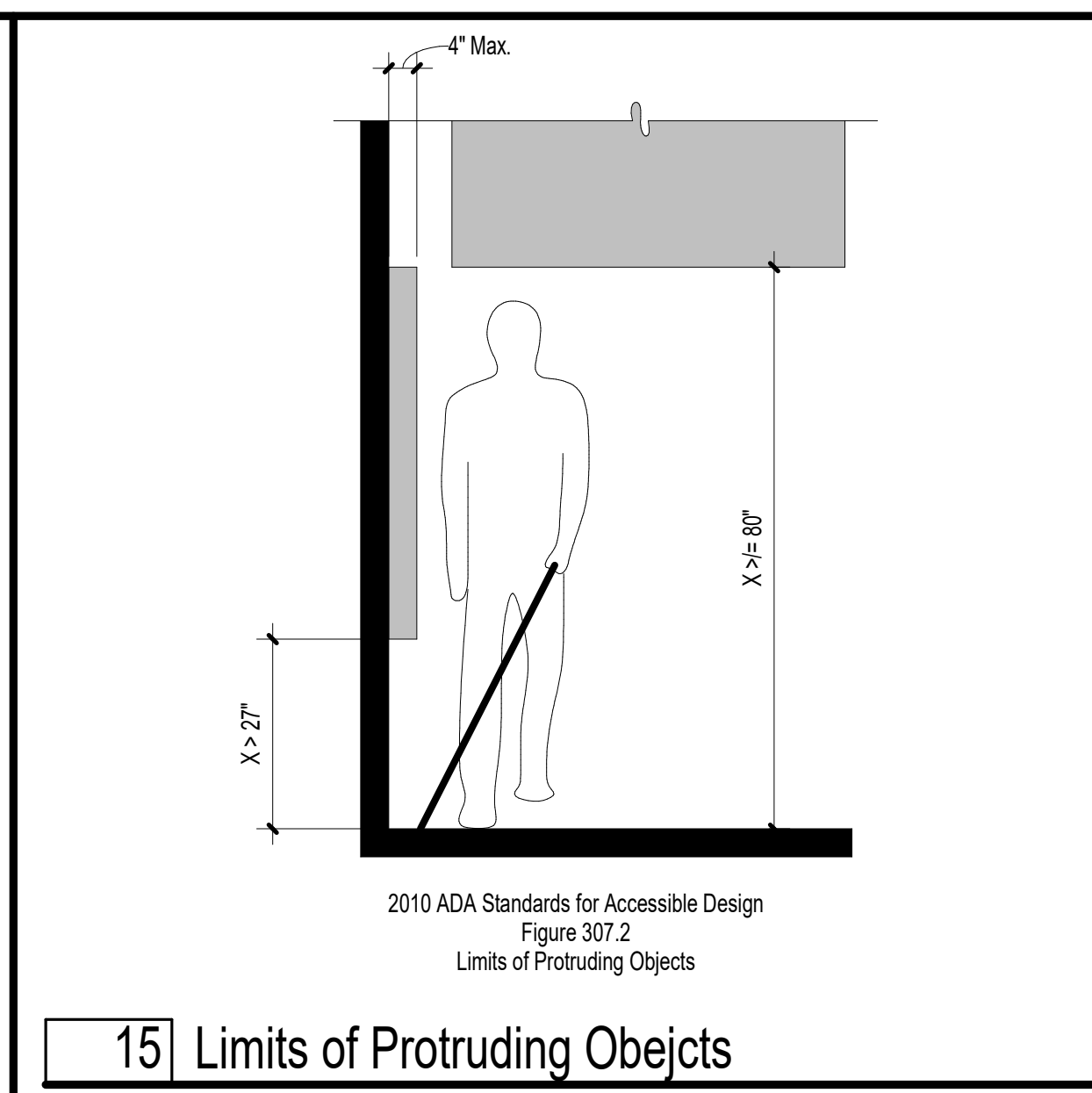


Abbreviations		General Notes		Project Team		Sheet Index	
<p>& And @ At (e) Existing ⊥ Perpendicular # Pound or Number</p> <p>A Adj. Adjustable Aggr. Aggregate Alt. Alternate Alum. Aluminum Approx. Approximately Arch. Architectural/Architect A.C. Asphalt Concrete</p> <p>B Bm. Beam Blk. Block Blkg. Blocking Bd. Board B.O. Bottom of Building B.U.R. Built up Roofing</p> <p>C C.I. Cast Iron C.B. Catch Basin Clg. Ceiling Cir. Center C.L. Center Line Cer. Ceramic C.O. Cleanout C.W. Cold Water Col. Column Conc. Concrete Conn. Connection Const. Construction C.J. Construction Joint Contn. Continuous Contr. Contractor Cu. Ft. Cubic Foot</p> <p>D D.G. Decomposed Granite Dept. Department Det. Detail Dia. Diameter Diff. Diffuser Dim. Dimension Dbl. Double DN. Down D.S. Downspout Dwg. Drawing D.F. Drinking Fountain</p>	<p>E Ea. Each Etc. Etcetera E.W.C. Electric Water Cooler Elec. Electrical Elev. Elevation Emer. Emergency Encl. Enclosure Eq. Equal Equip. Equipment Exh. Exhaust Exp. Expansion E.J. Expansion Joint Ext. Exterior</p> <p>F F.O. Face of Fin. Finish F.G. Finish Grade F.E. Fire Extinguisher F.E.C. Fire Extinguisher Cabinet Fpr. Fireproofing Fxt. Fixture Flash. Flashing Flr. Floor F.D. Floor Drain F.L. Flow Line Fl. Foot Ftg. Footing Fdn. Foundation FBO. Furnished by Others Furr. Furring Fut. Future</p> <p>G Galv. Galvanized G.I. Galvanized Iron Gage. Gage Gen. General Gl. Glass GLB. Glue-Laminated Beam Gyp. Gypsum</p> <p>H Ht. Height H.C. Hollow Core H.M. Hollow Metal Horiz. Horizontal H.B. Hose Bibb H.W. Hot Water Hr. Hour</p> <p>I In. Inch(es) I.D. Inside Diameter Insul. Insulation Int. Interior</p>	<p>J Jt. Joint</p> <p>L Lab. Laboratory Lav. Lavatory Lt. Light</p> <p>M Mfr. Manufacturer M.O. Masonry Opening Max. Maximum Mech. Mechanical Membr. Membrane Met. Metal Min. Minimum Misc. Miscellaneous MPH. Miles per hour Mtd. Mounted</p> <p>N Nom. Nominal N.I.C. Not in Contract N.T.S. Not to Scale No. Number</p> <p>O O.C. On Center O.D. Outside Diameter O.H. Opposite Hand</p> <p>P Pr. Pair P. Lam. Plastic Laminate Pl. Plate Plywd. Plywood Pl. Point P.G. Glass P.SF. Pounds per square foot PSI. Pounds per square inch</p> <p>R Rad. Radius Ref. Reference Rein. Reinforced Req. Required Ret. Return Air Rev. Revision R.O.W. Right of Way R.D. Roof Drain Rm. Room R.O. Rough Opening</p>	<p>S Sched. Schedule Sect. Section Sht. Sheet Sim. Similar S.C. Solid Core Spec. Specification Sq. Square SF. Square foot Std. Standard Stl. Steel Stg. Storage Struct. Structural Susp. Suspended Sym. Symmetrical</p> <p>T Tel. Telephone T.V. Television T.&G. Tongue and Groove T.C. Top of Curb (or Concrete) Top of</p> <p>U U.N.O. Unless Noted Otherwise</p> <p>V Vert. Vertical V.C.T. Vinyl Composition Tile</p> <p>W W.C. Water Closet Wt. Weight W.F. Wide Flange Wdw. Window W. With W/O. Without Wd. Wood W.J. Weakened Plane Joint</p> <p>Y Yd. Yard</p>	<p>1. These general notes pertain to work described on all contract documents.</p> <p>2. 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.</p> <p>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.</p> <p>3. 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.</p> <p>4. 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.</p> <p>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.</p> <p>5. 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.</p> <p>6. 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.</p> <p>7. The Contractor shall be responsible for the general safety during construction, and all work shall conform to pertinent safety regulations.</p> <p>8. 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.</p> <p>9. 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.</p> <p>10. 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.</p> <p>11. The Contractor shall pursue work in a continuous and diligent manner to ensure a timely completion of the project.</p> <p>12.</p> <p>13.</p> <p>14. 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.</p> <p>15. 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.</p> <p>16. 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.</p> <p>17. 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.</p> <p>18. 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.</p> <p>19. 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.</p> <p>20. 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.</p> <p>21. 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.</p> <p>22. 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.</p> <p>23. 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.</p>	<p>Owner: City of Sparks Public Works PO Box 857 Sparks, Nevada 89432 353-7864 Contact: Ron Korman</p> <p>Using Agency: City of Sparks Public Works Administration 215 21st Street Sparks, NV 89431</p> <p>Architect: H+K Architects 5485 Reno Corporate Drive, Suite 100 Reno, Nevada 89511 332-6640 332-6642 (Fax) Contact: Alexander Villa</p> <p>Mechanical Engineer: Ainsworth Associates Mechanical Engineers 1420 Holcomb Avenue, Suite 201 Reno, Nevada 89502 329-9100 Contact: Cruz Kenver</p> <p>Structural Engineer: CFBR Structural Group 5425 Louie Lane Reno, Nevada 89511 525-1113 Contact: Chris Roper</p> <p>Electrical Engineer: PK Electrical, Inc. 681 Sierra Rose Dr Suite B Reno, Nevada 89511 826-9010 Contact: Matthew Stuart</p> <p>Civil Engineer: Odyssey Engineering 681 Sierra Rose Dr Suite B Reno, Nevada 89511 826-9010 Contact: Frank Bidart</p>	<p>G100 Title Sheet</p> <p>General G101 Project Data G301 Accessibility Diagrams G401 Product Specifications + Wall Types</p> <p>Civil C100 Civil Site Plan</p> <p>Architectural A101 Ceiling and Floor Plans A701 Interior Restroom Elevations, Details and Accessories Schedule</p> <p>Structural S001 Structural General Notes S101 Structural Plan and Details</p> <p>Mechanical M001 Mechanical, Legends, Schedules and Notes M002 Mechanical Specifications M101 Mechanical Floor Plans</p> <p>Plumbing P001 Plumbing, Legends, Schedules and Notes P002 Plumbing Specifications P101 Plumbing Floor Plans</p> <p>Electrical E001 Electrical Legend, Drawing and Lighting Schedule E002 Electrical Specifications E102 Demolition & New Lighting Plan E201 Demolition & New Power Plans and Panel Schedule</p>	

Symbols		Vicinity Map	
<p>Drawing Number A101 Sim. Sheet Number</p> <p>Typical Indicator</p> <p>North Arrow</p> <p>Elevation</p> <p>Door Number</p> <p>Window Type</p> <p>Grid Line</p> <p>Room Name/Number</p> <p>Wall Type Symbol</p>	<p>Building Section</p> <p>Wall Section</p> <p>Detail</p> <p>Detail Section</p> <p>Spot Elevation</p> <p>Elevation</p>		<p>Project Site</p>

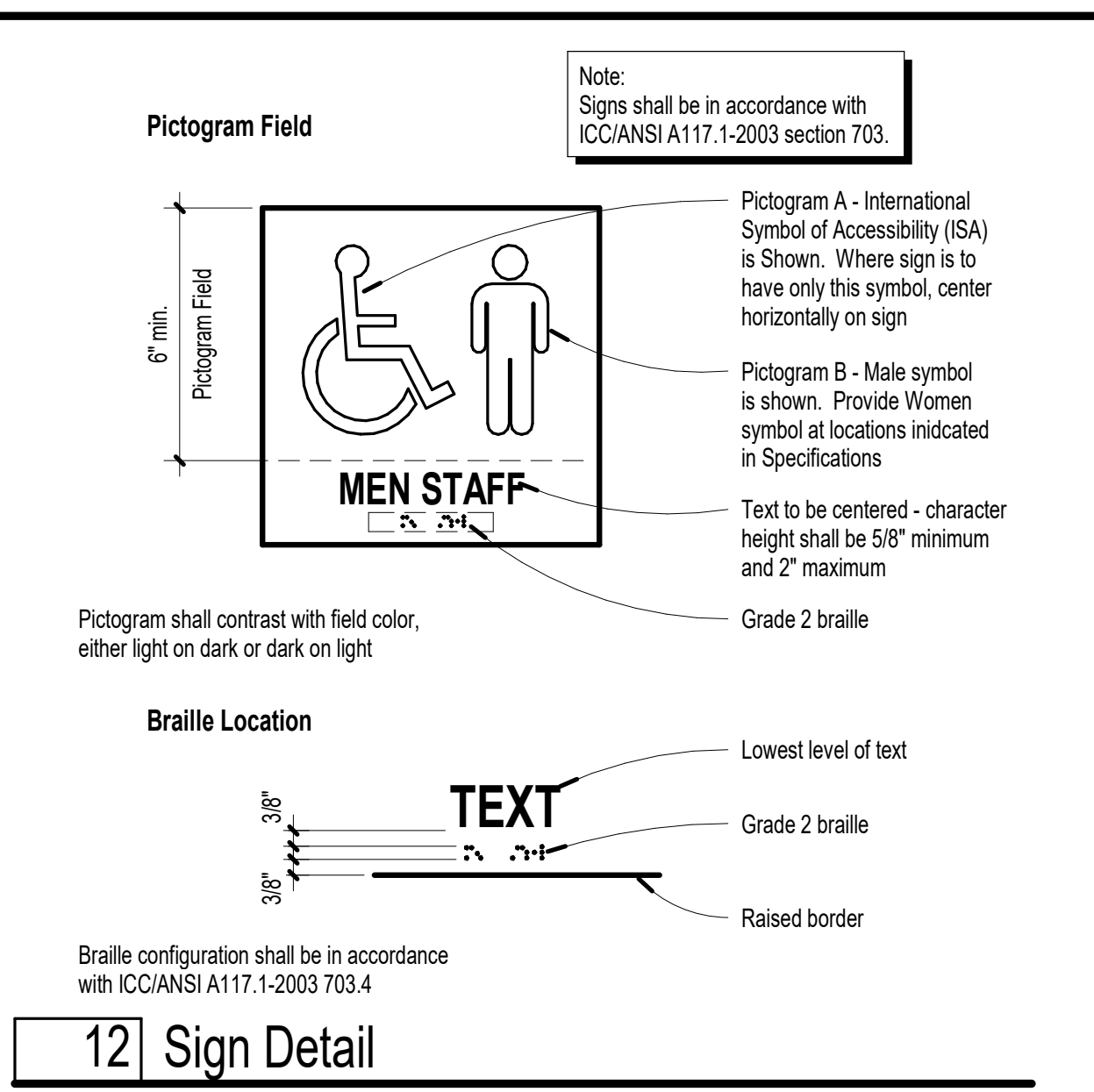
<p>Professional Seal</p>	<p>Date</p> <p>Revision</p>	<p>Consultant</p> <p>H+K ARCHITECTS 5485 Reno Corporate Drive, Suite 100 Reno, Nevada 89511-2262 P 775-332-6640 F 775-332-6642 hkarchitects.com</p>	<p>Sparks Public Works Bullpen Toilet Room Renovation</p> <p>215 S 21st St Sparks, NV 89431</p>	<p>Project Data</p> <p>May 28, 2021 H+K Project No: 2101</p> <p>G101</p>
--------------------------	-----------------------------	--	--	---

BIM 360://2101 Sparks Public Works Bullpen/2101 Sparks Public Works Bullpen.rvt
 6/1/2021 10:06:43 AM



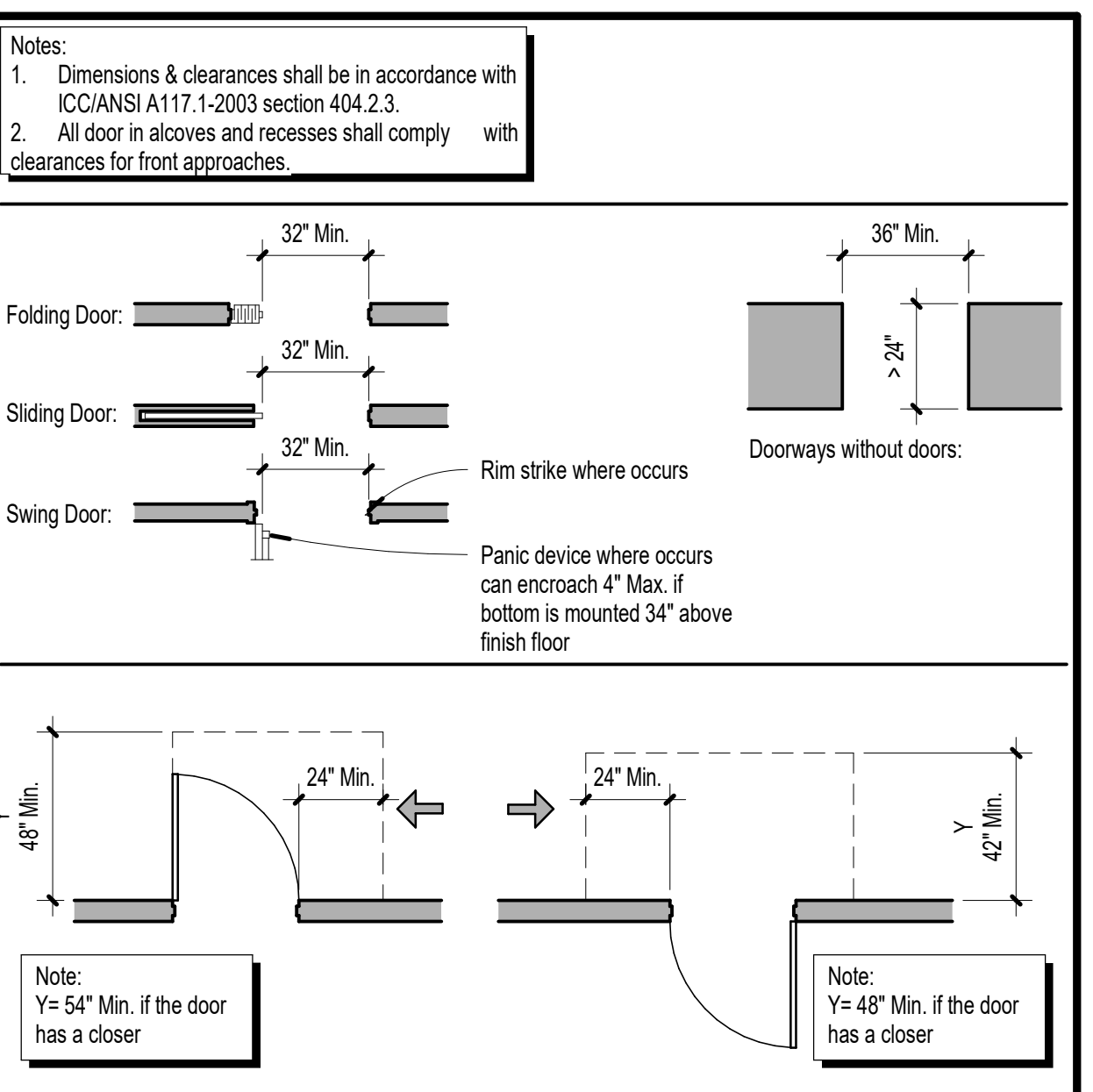
15 Limits of Protruding Objects

1/2" = 1'-0"



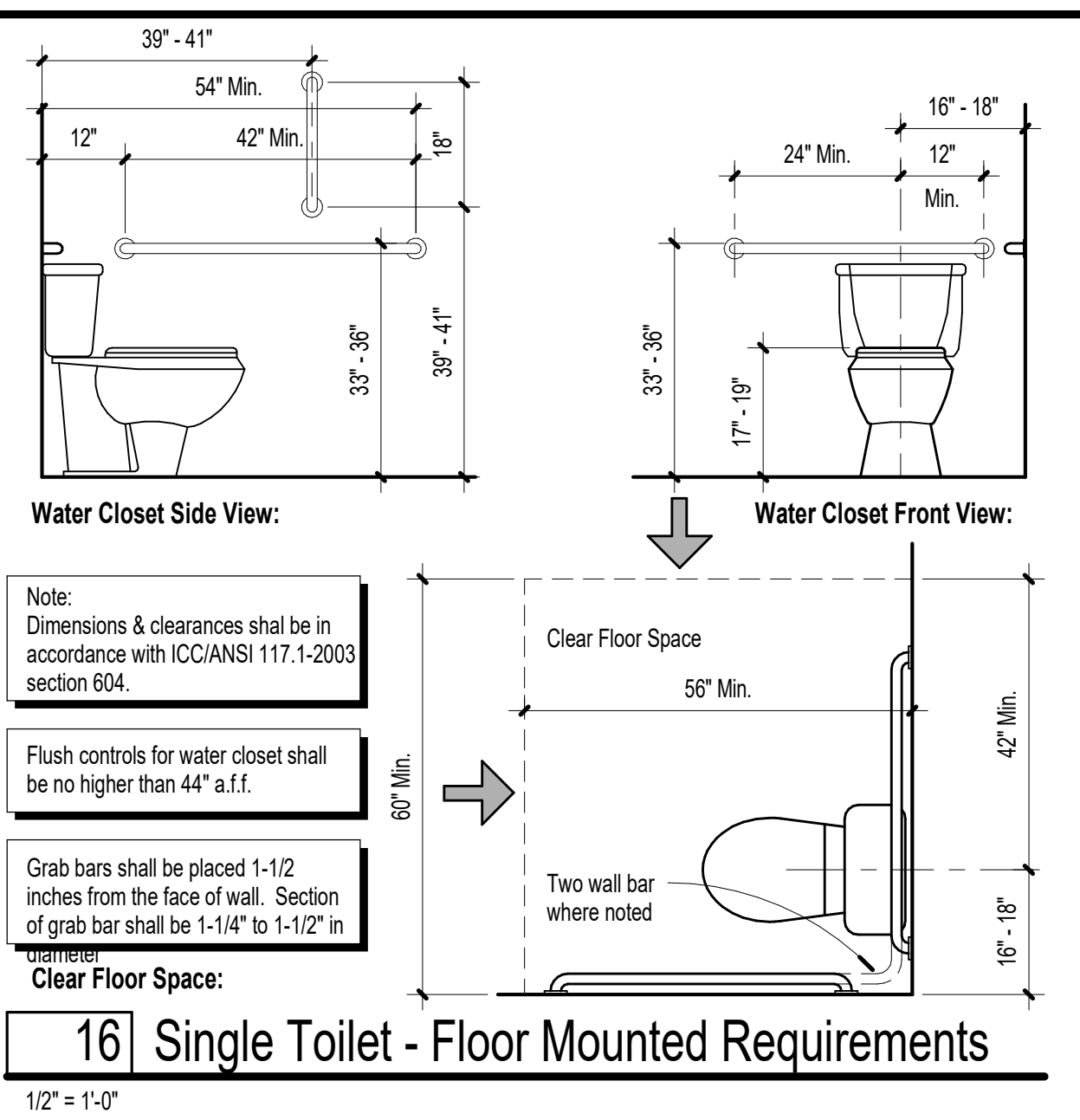
12 Sign Detail

3" = 1'-0"



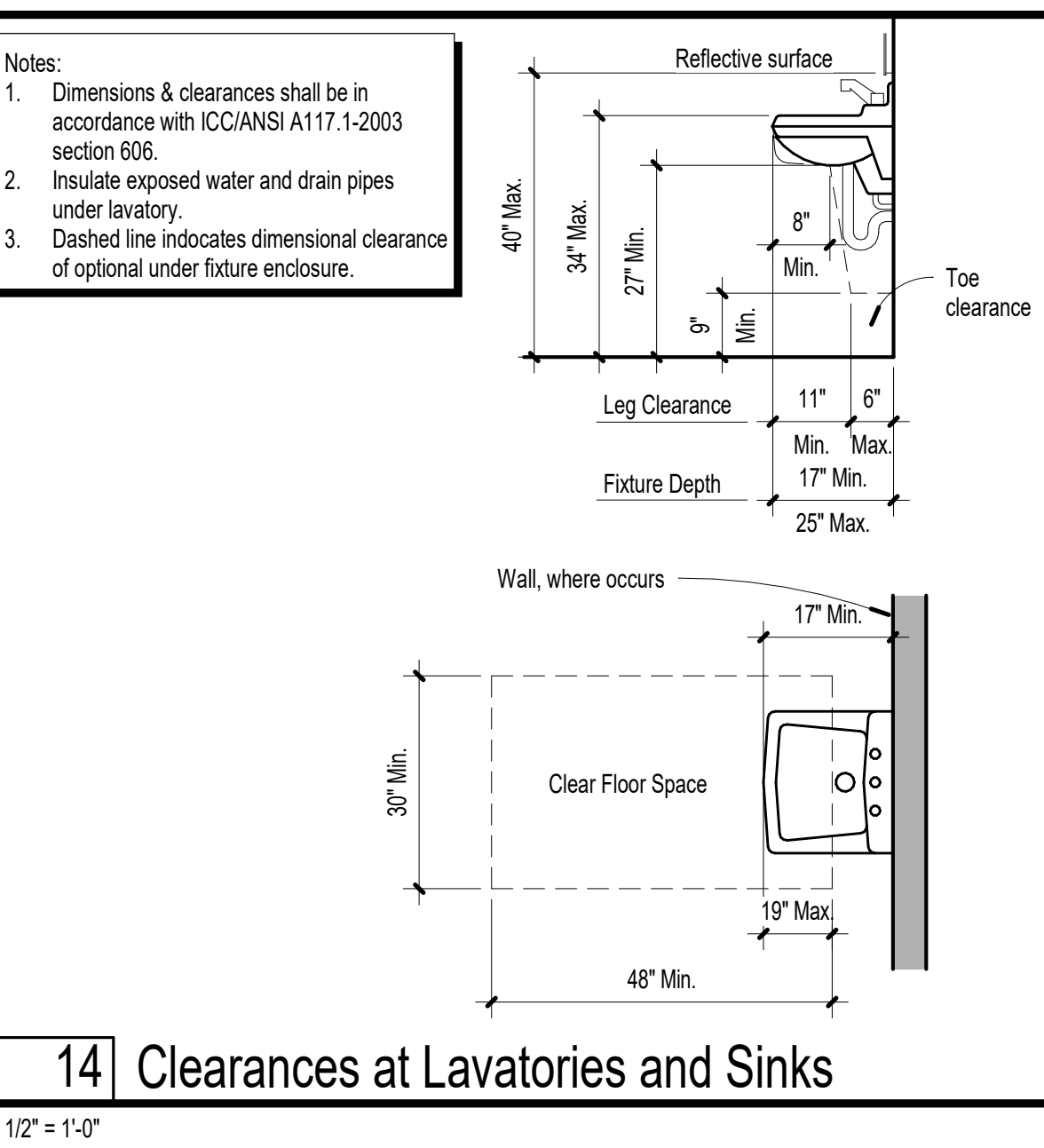
5 Swing Door Approach

1/4" = 1'-0"



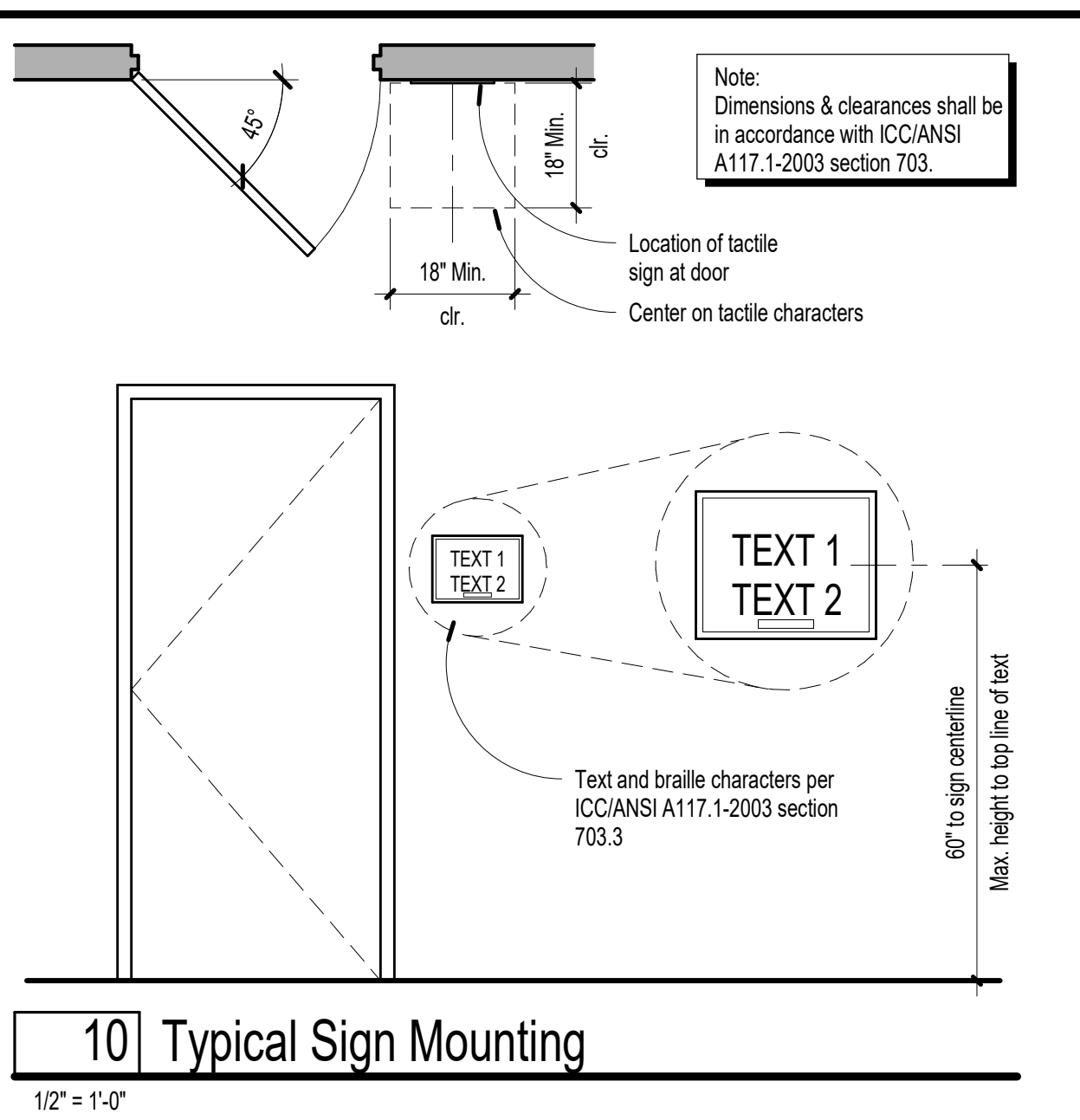
16 Single Toilet - Floor Mounted Requirements

1/2" = 1'-0"



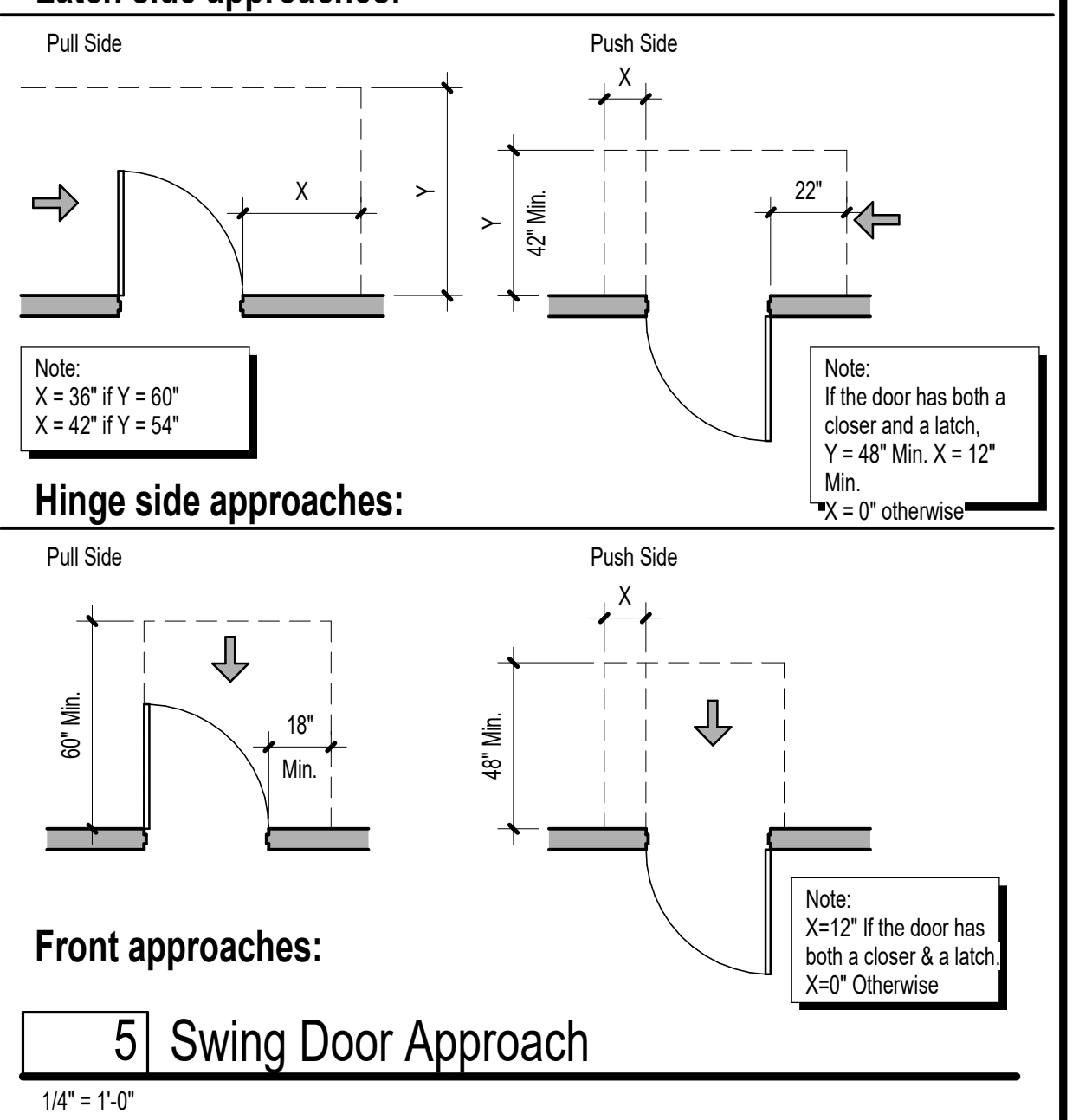
14 Clearances at Lavatories and Sinks

1/2" = 1'-0"



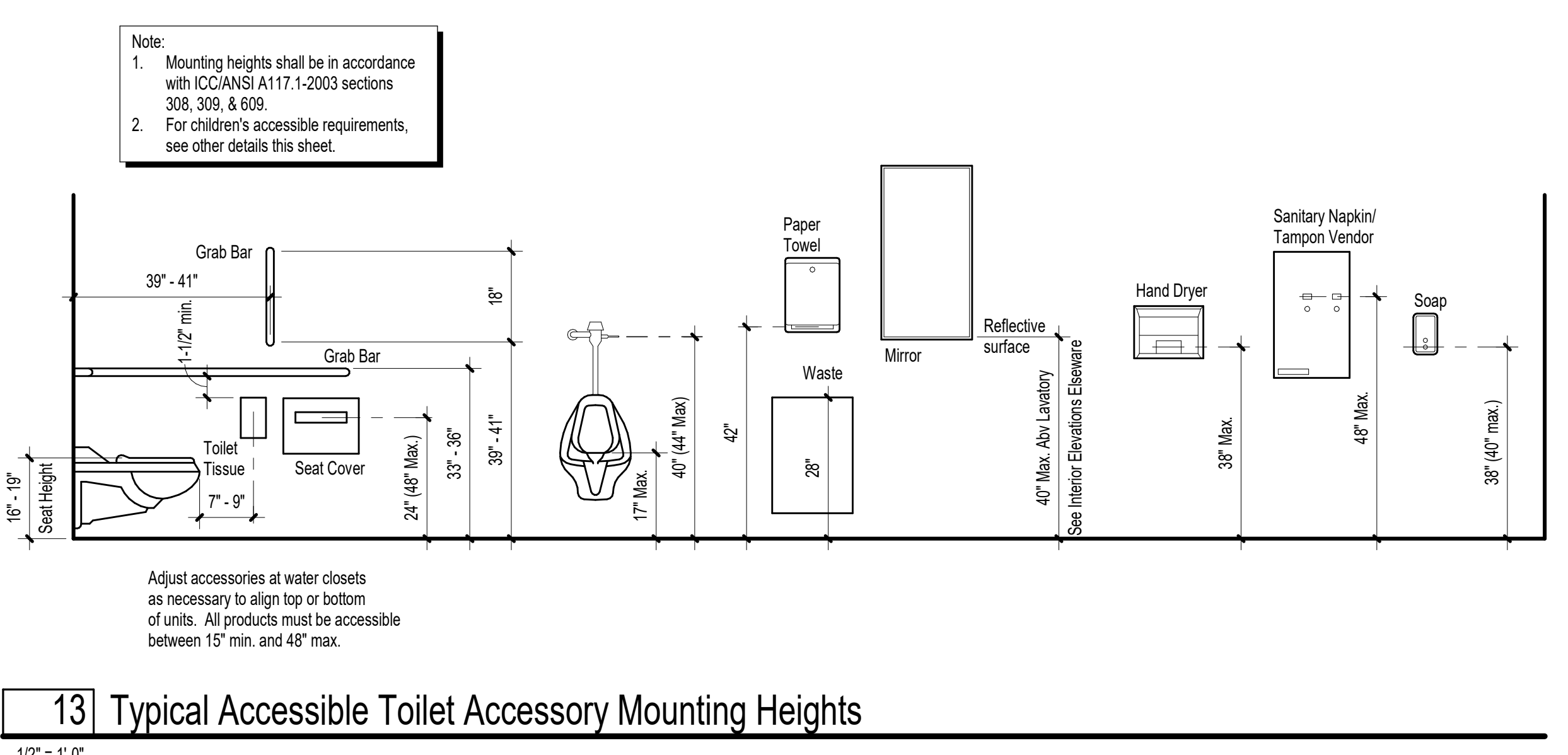
10 Typical Sign Mounting

1/2" = 1'-0"



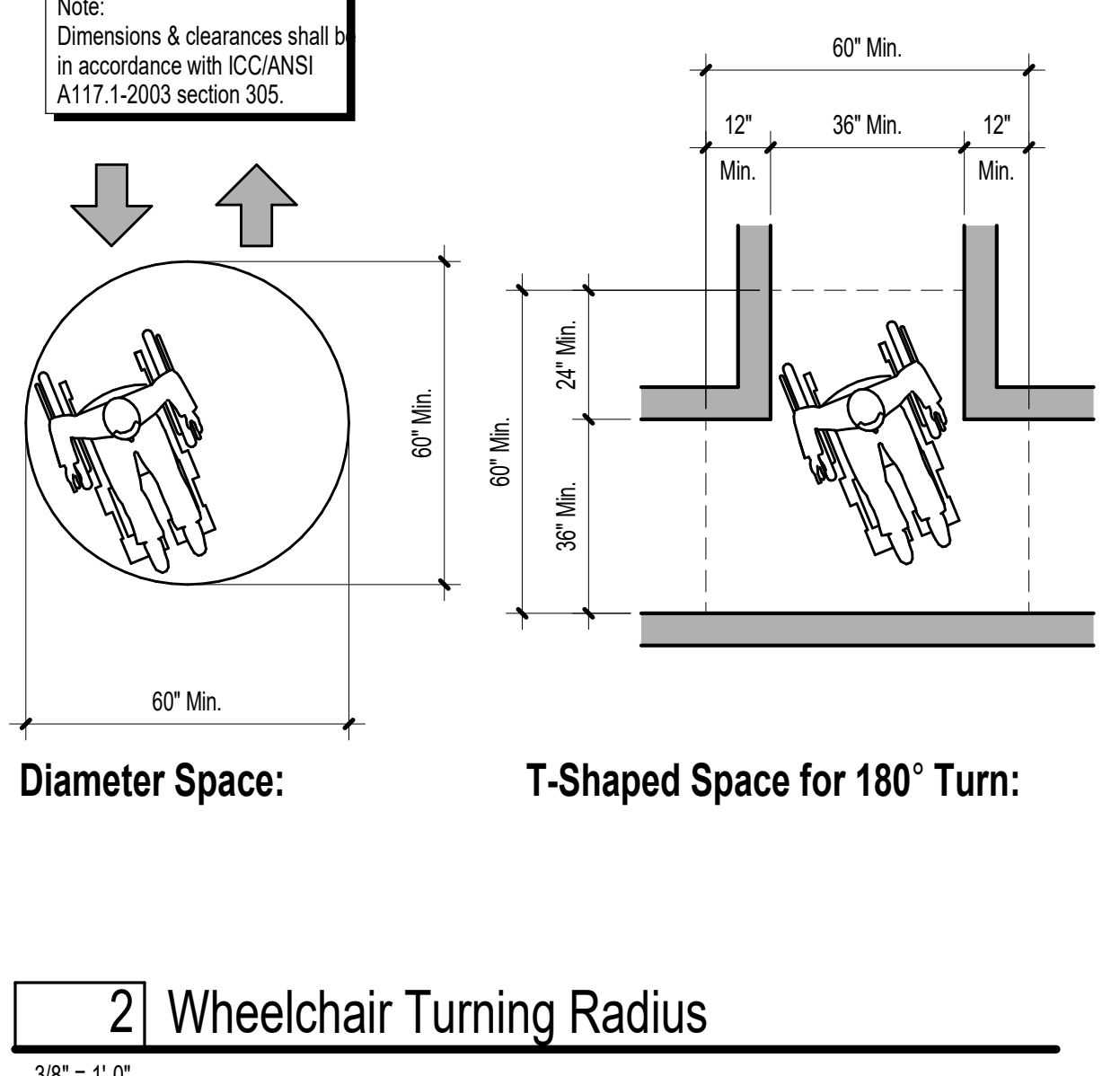
1 Changes in Level

1/2" = 1'-0"



13 Typical Accessible Toilet Accessory Mounting Heights

1/2" = 1'-0"



2 Wheelchair Turning Radius

3/8" = 1'-0"

B:\06\2101 Sparks Public Works Bullpen\2101 Sparks Public Works Bullpen AR.rvt

6/1/2021 10:06:44 AM



Professional Seal Date Revision

Consultant

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

**Sparks Public Works Bullpen
Toilet Room Renovation**
215 S 21st St
Sparks, NV 89431

Accessibility Diagrams

May 28, 2021
H+K Project No: 2101

G301



DIVISION 2 – EXISTING CONDITIONS

024110 Cutting and Patching

- Cutting refers to the removal of in-place construction necessary to permit installation or performance of other Work.
- Patching refers to the fitting and repair work required to restore surfaces to original conditions after installation of other work.
- 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

- 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 salvaged.
- 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.
- 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.
- Required demolition is noted on the drawings. Contractor is responsible for all required demolition and debris removal.
- 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

- 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

- Provide cast-in-place concrete, including formwork and reinforcement, as required to complete the construction shown on the Drawings and as specified herein.
- 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

- 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 $F_L = 35$, flatness and levelness requirements. Raised floor slabs placed on metal deck shall receive a troweled finish.

DIVISION 6 – WOOD AND PLASTICS

061000 Rough Carpentry

- 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

- Premium Grade, Frameless Construction, 1/2" Reveal.
- High Pressure Decorative laminate: NEMA LD 3, grades as indicated.
- Acceptable Manufacturers: Formica Corporation or approved equal.
- Melamine allowed only on non-visible surfaces.
- 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

- Homogenous solid sheets of filled plastic resin complying with ANSI S51. Provide Standard type or Veneer Type made from material complying with requirements for Standard Type, as indicated.
- Adhesives shall not contain urea formaldehyde.
- Acceptable manufacturers: Avonite Surfaces or approved equal.

066400 Plastic Paneling

- Gelcoat-finished, glass-fiber reinforced plastic panels complying with ATM D 5319
- Full height FRP Panels with brick running bond pattern.
- Acceptable manufacturers: Marfile or approved equal.
- Surface Finish: As selected by Architect from manufacturer's full range.
- Color: As selected by Architect from manufacturer's full range.
- Trim Accessories: Manufacturer's standard one piece vinyl extrusions designed to retain and cover edge of panels. Color to match panels.

DIVISION 7 – THERMAL AND MOISTURE PROTECTION

072100 Thermal Insulation

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

072616 Below-Grade Vapor Retarders

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

079200 Joint Sealants

- Single-component, Nonsag, Neutral-Curing Silicone Joint Sealant: ASTM C 920, Type S, Grade NS, Class 25, for use NT.
- 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.
- Acceptable Materials: Dow Corning Corporation, 789 or approved equal.

DIVISION 8 – DOORS AND WINDOWS

081113 Hollow Metal Doors and Frames

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

083113 Access Doors and Frames

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

087100 Door Hardware

- Hinges: See Door Hardware Group Schedules for individual hinge, 652 Finish, by Hager or approved equal
- Entry Lock: Rhodes with 626 finish by Schlage or approved equal.
- Deadbolt: Occupancy Deadbolt B571 with 626 finish by Schlage or approved equal.
- Cylinder: Keymark with 626 finish by Medeco or approved equal
- Closer: 404DX with 689 finish by LCN or approved equal.

DIVISION 9 – FINISHES

092900 Gypsum Board

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

096723 Resinous Flooring

- Urethane concrete resinous flooring, and integral cove base.
- Self-leveling Full Flake floor and wall topping shall be 1/8" thick with appropriate Primer and Topcoat.
- 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.

099600 High-Performance Coatings

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

DIVISION 10 – SPECIALTIES

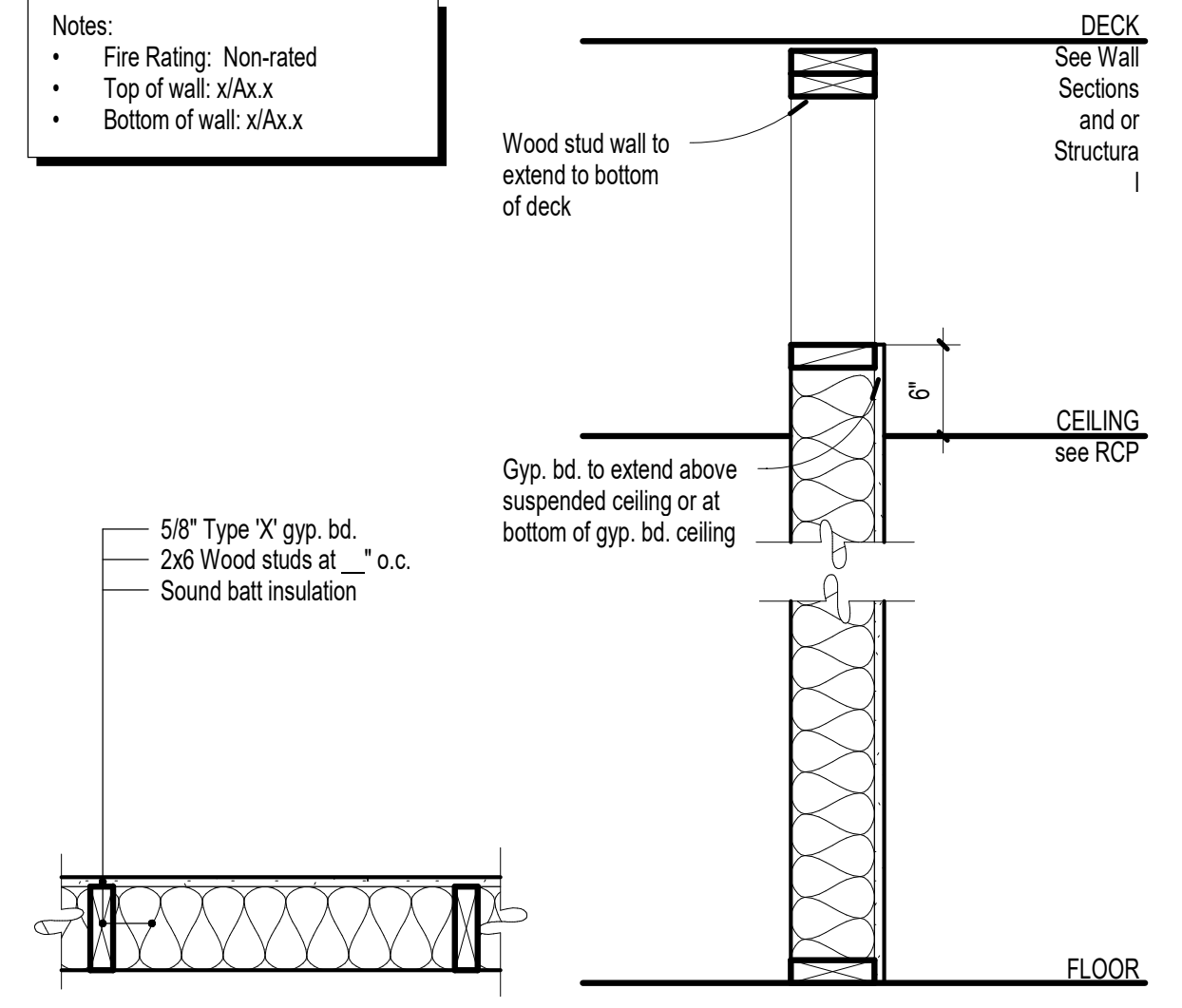
101423 Panel Signage

- Accessibility Standard: Comply with applicable provisions in U.S. Architectural & Transportation Barriers Compliance Board's ADA-ABA Accessibility Guidelines for Buildings and Facilities and ICC A117.1 for signs.
- Room-Identification Sign: Sign with smooth, uniform surfaces; with message and characters having uniform faces, sharp corners, and precisely formed lines and profiles.
- Text and Typeface: Finish raised characters to contrast with background color, and finish Braille to match background color.
- Pictograms: 6" x 9" pictograms with International Symbols for restrooms.

102800 Toilet Accessories

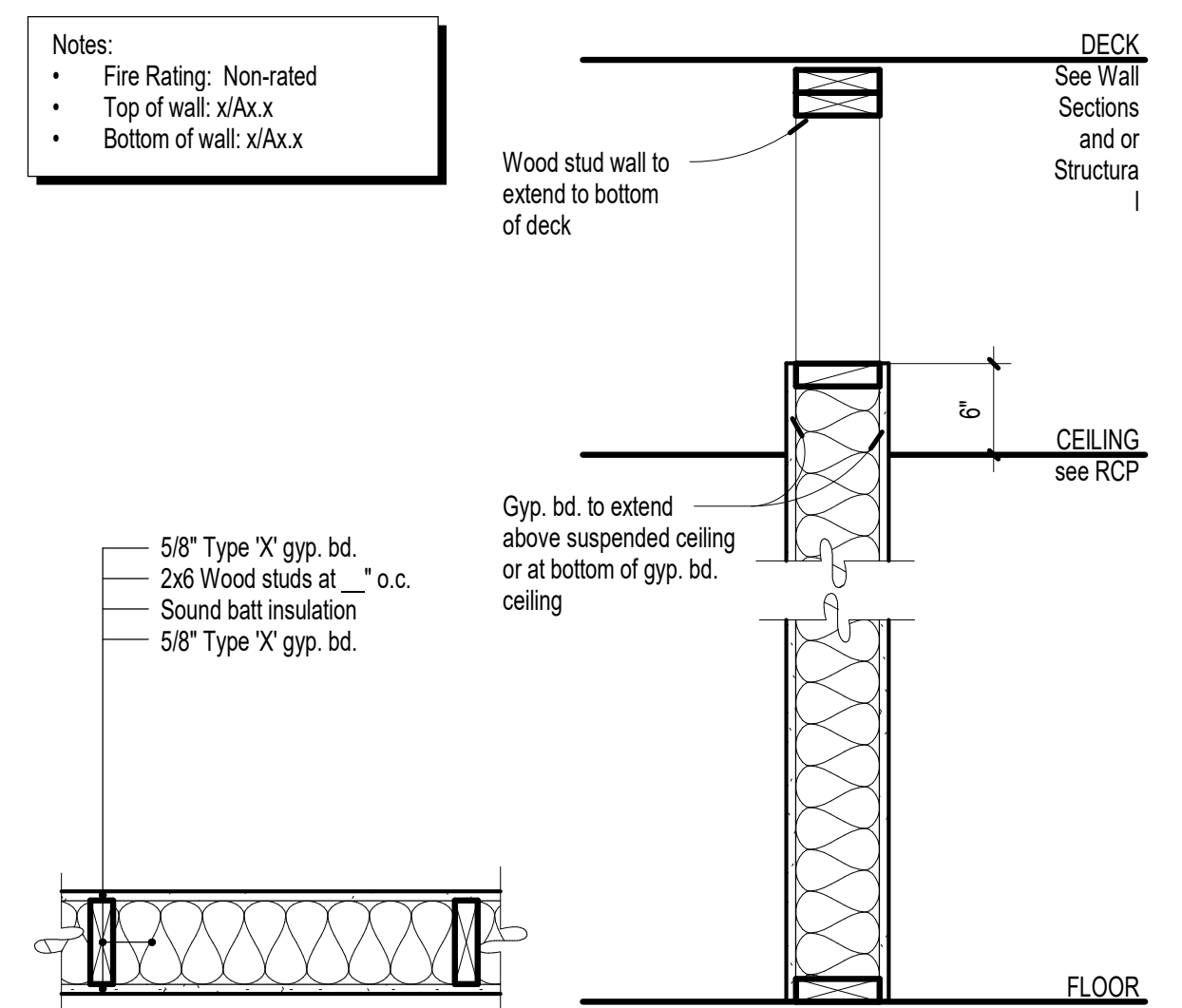
- Reference Toilet Accessories schedule for specific products.
- Accepted manufacturer: Bobrick or approved equal.

Notes:
 • Fire Rating: Non-rated
 • Top of wall: x/Ax.x
 • Bottom of wall: x/Ax.x



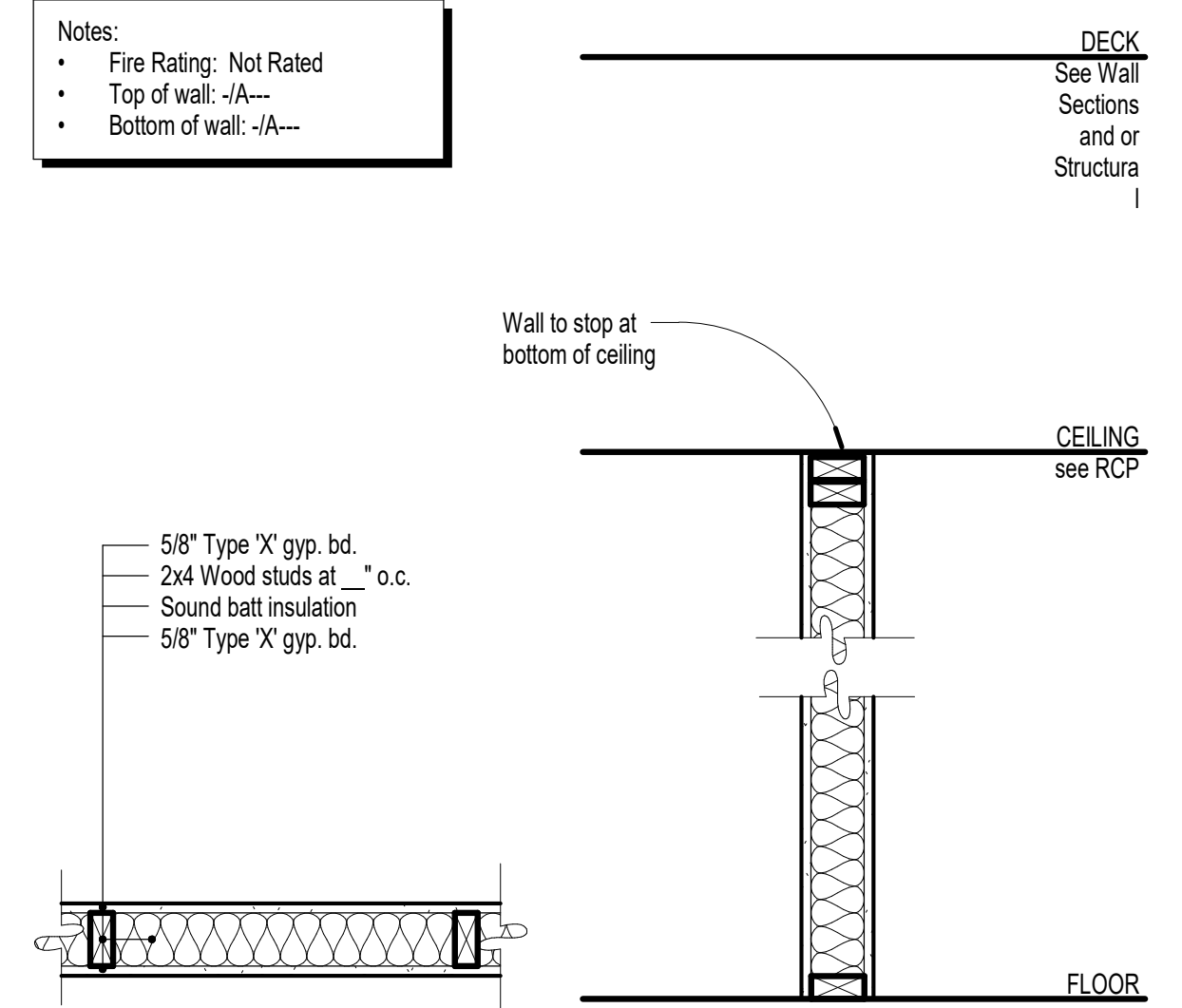
662BN Interior Wood Stud Wall-Finish One Side

Notes:
 • Fire Rating: Non-rated
 • Top of wall: x/Ax.x
 • Bottom of wall: x/Ax.x



661BN Interior Wood Stud Wall

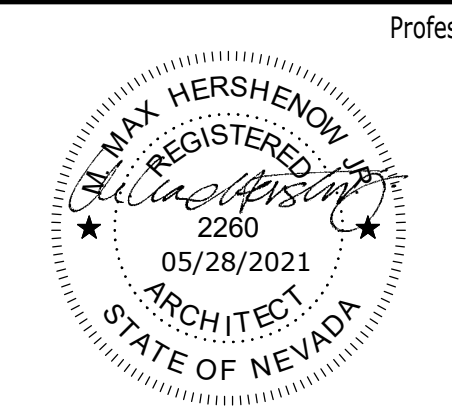
Notes:
 • Fire Rating: Not Rated
 • Top of wall: -/A-
 • Bottom of wall: -/A-
 •



641CN Interior Wood Stud Wall

BIN 3667/2101 Sparks Public Works Bullpen2101 Sparks Public Works Bullpen AR.rvt

6/1/2021 10:06:45 AM



Professional Seal Date Revision

Consultant

H+K ARCHITECTS

5485 Reno Corporate Drive, Suite 100
 Reno, Nevada 89511-2262

P 775+332+6640
 F 775+332+6642

hkarchitects.com

**Sparks Public Works Bullpen
 Toilet Room Renovation**

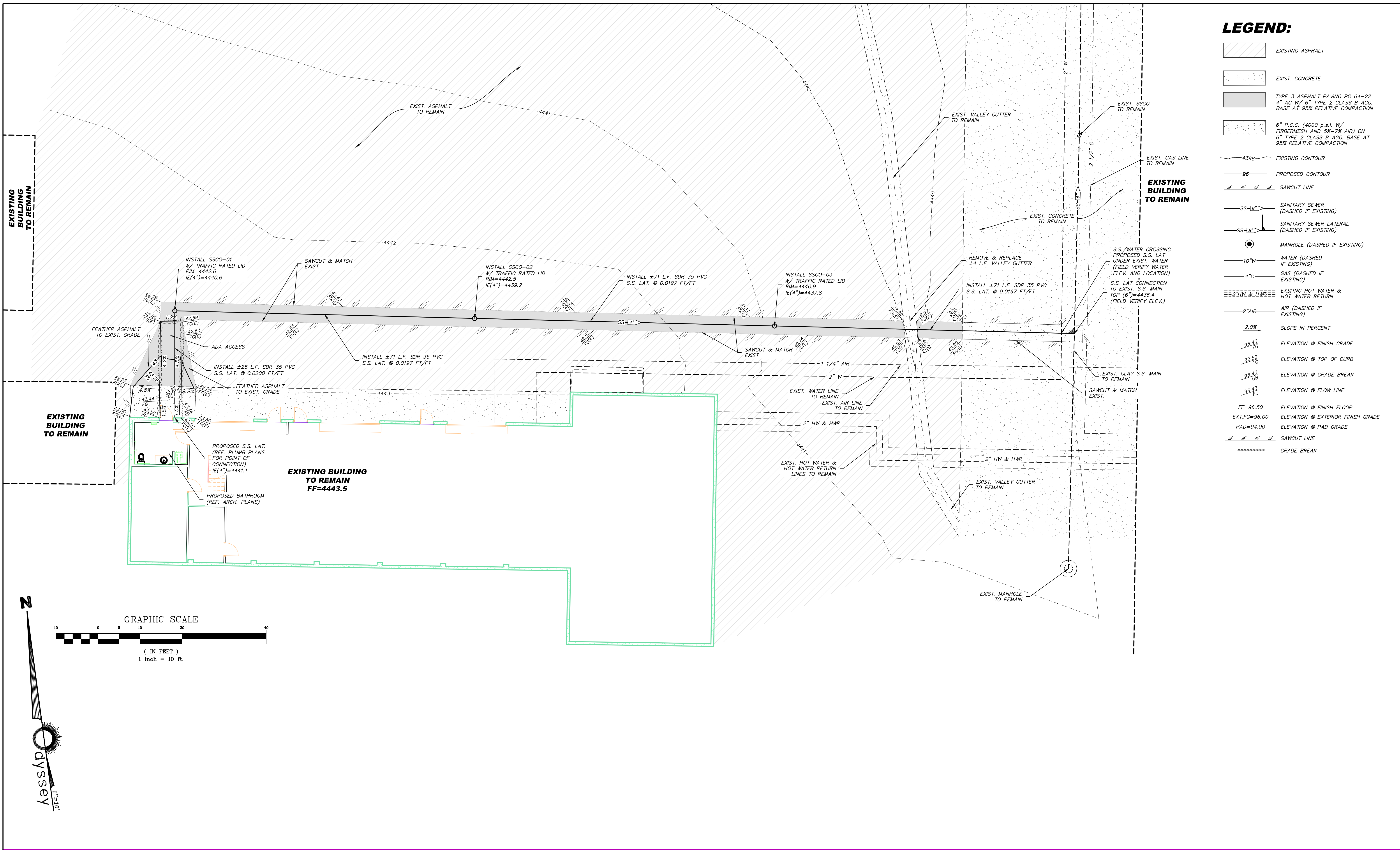
215 S 21st St
 Sparks, NV 89431

Product Specifications +
 Wall Types

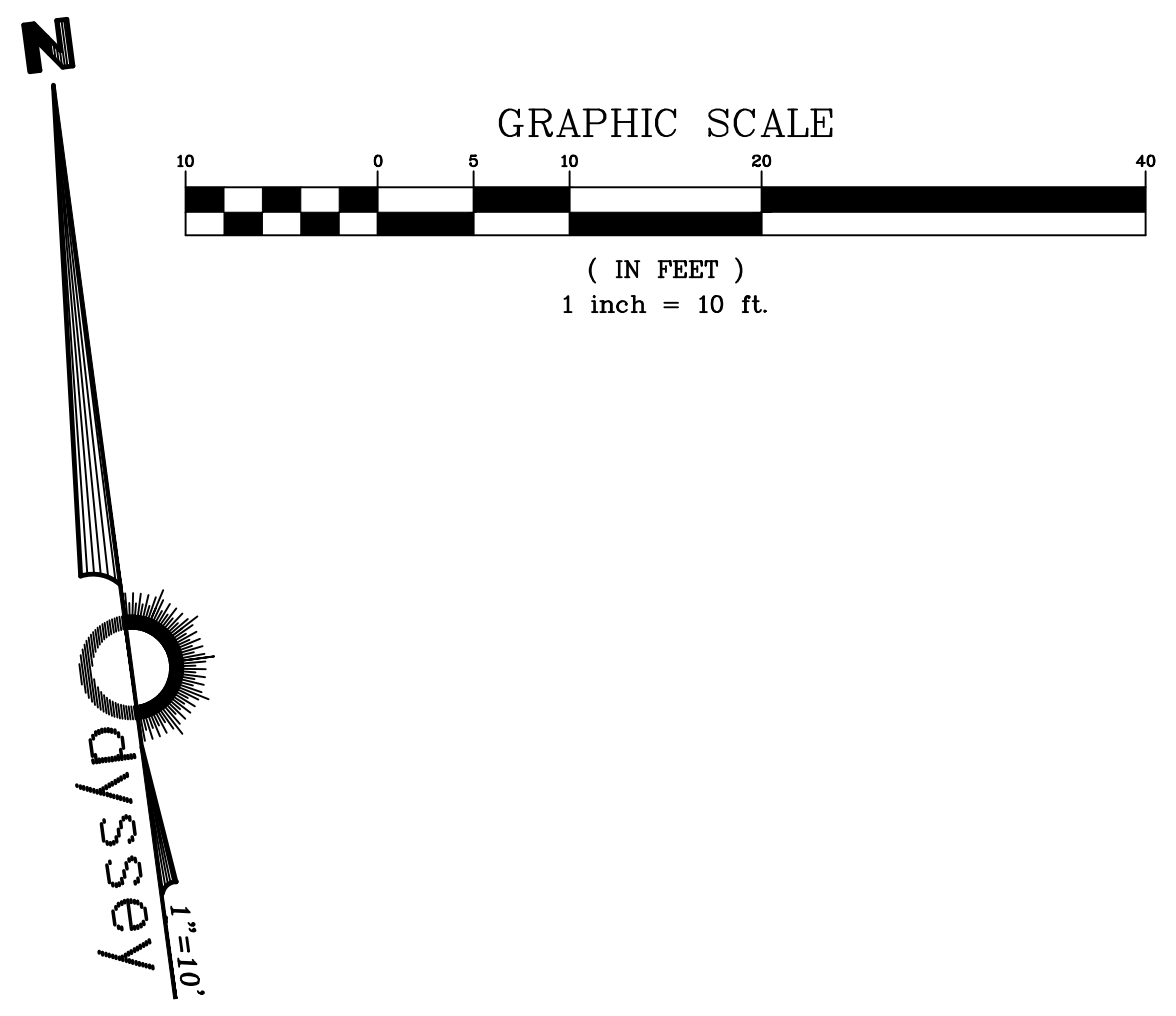
May 28, 2021
 H+K Project No: 2101

G401

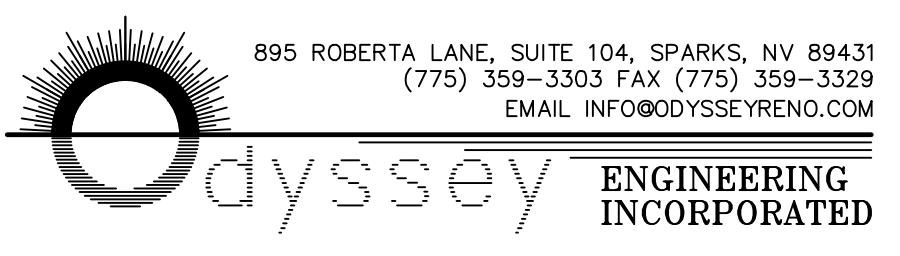




- LEGEND:**
- EXISTING ASPHALT
 - EXIST. CONCRETE
 - TYPE 3 ASPHALT PAVING PG 64-22
4" AC W/ 6" TYPE 2 CLASS B AGG.
BASE AT 95% RELATIVE COMPACTION
 - 6" P.C.C. (4000 p.s.i. W/
FIBERMESH AND 5%-7% AIR) ON
6" TYPE 2 CLASS B AGG. BASE AT
95% RELATIVE COMPACTION
 - 4396 EXISTING CONTOUR
 - 96 PROPOSED CONTOUR
 - SAWCUT LINE
 - SANITARY SEWER (DASHED IF EXISTING)
 - SANITARY SEWER LATERAL (DASHED IF EXISTING)
 - MANHOLE (DASHED IF EXISTING)
 - 10" W WATER (DASHED IF EXISTING)
 - 4" G GAS (DASHED IF EXISTING)
 - EXISTING HOT WATER & HOT WATER RETURN (DASHED IF EXISTING)
 - 2" AIR AIR (DASHED IF EXISTING)
 - 2.0% SLOPE IN PERCENT
 - 96.43 PG ELEVATION @ FINISH GRADE
 - 82.50 TC ELEVATION @ TOP OF CURB
 - 96.43 GB ELEVATION @ GRADE BREAK
 - 96.43 FL ELEVATION @ FLOW LINE
 - FF=96.50 ELEVATION @ FINISH FLOOR
 - EXT.FG=96.00 ELEVATION @ EXTERIOR FINISH GRADE
 - PAD=94.00 ELEVATION @ PAD GRADE
 - SAWCUT LINE
 - GRADE BREAK



Date	Revision



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

**Sparks Public Works Bullpen
 Toilet Room Renovation**
 215 S 21st St
 Sparks, NV 89431

Civil Site Plan
 May 28, 2021
 H+K Project No: 2101
C100

Sheet Notes

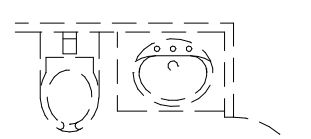
- Overall and major dimensions are shown on this plan. For dimensions of masonry walls and rough openings, see the Structural drawings. Where the plans reference enlarged plans, see the enlarged plans for specific dimensions in those areas.
- All door locations in gypsum board partitions not dimensioned will be 4" from the studs of perpendicular wall to door edge (U.N.O.).
- All dimensions are from face-of-stud, face-of-CMU, or center of framed opening, unless noted otherwise.

Demolition Notes

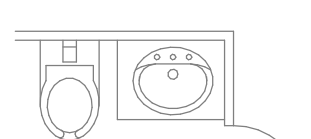
- For the purpose of Architectural work, all items not shown to be removed or altered on this sheet shall remain in their existing condition. This pertains to all equipment and other consultant's work. See other disciplines for additional demolition and alterations to utilities. Notify the Architect 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 Materials: 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.

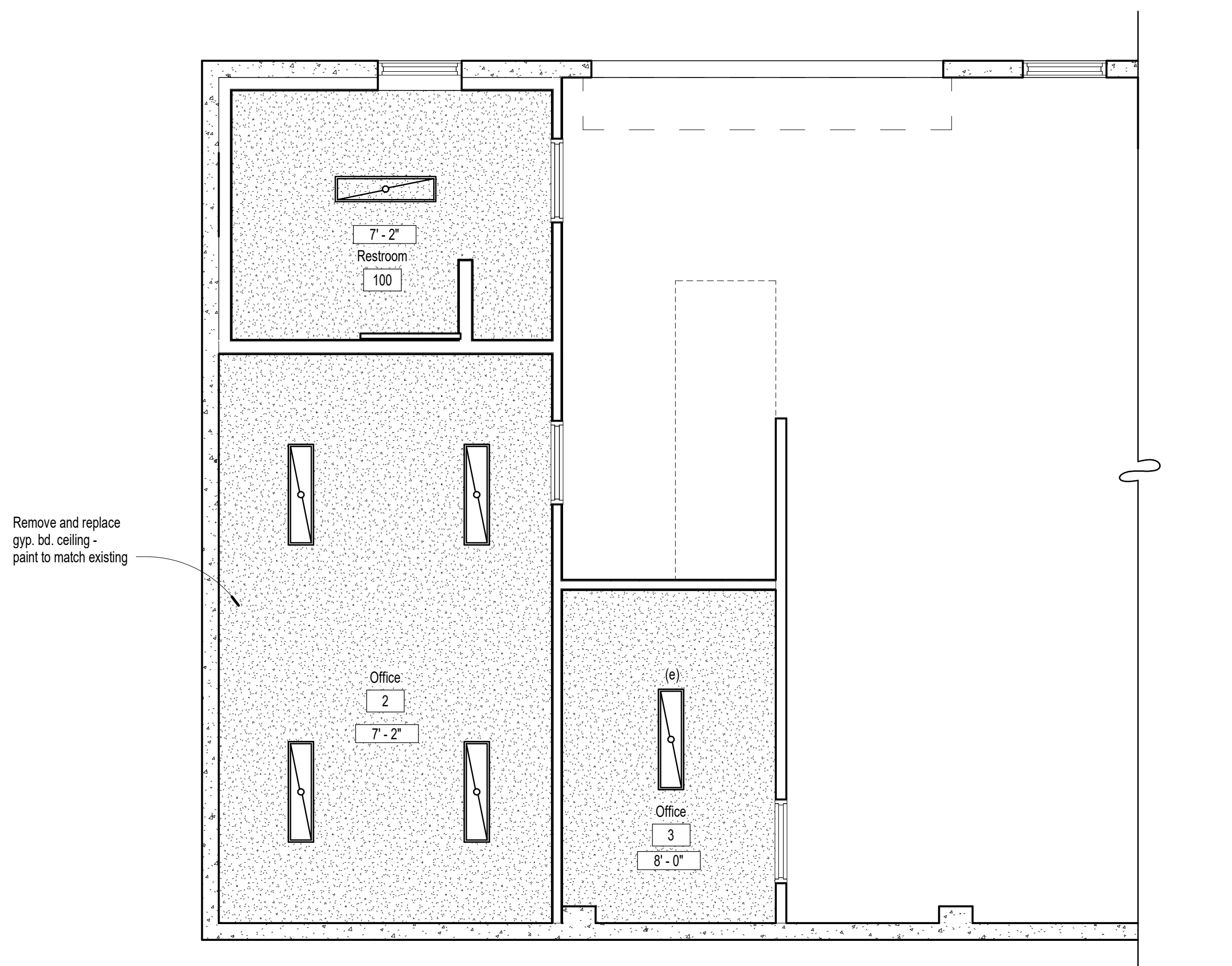
Demolition Legend



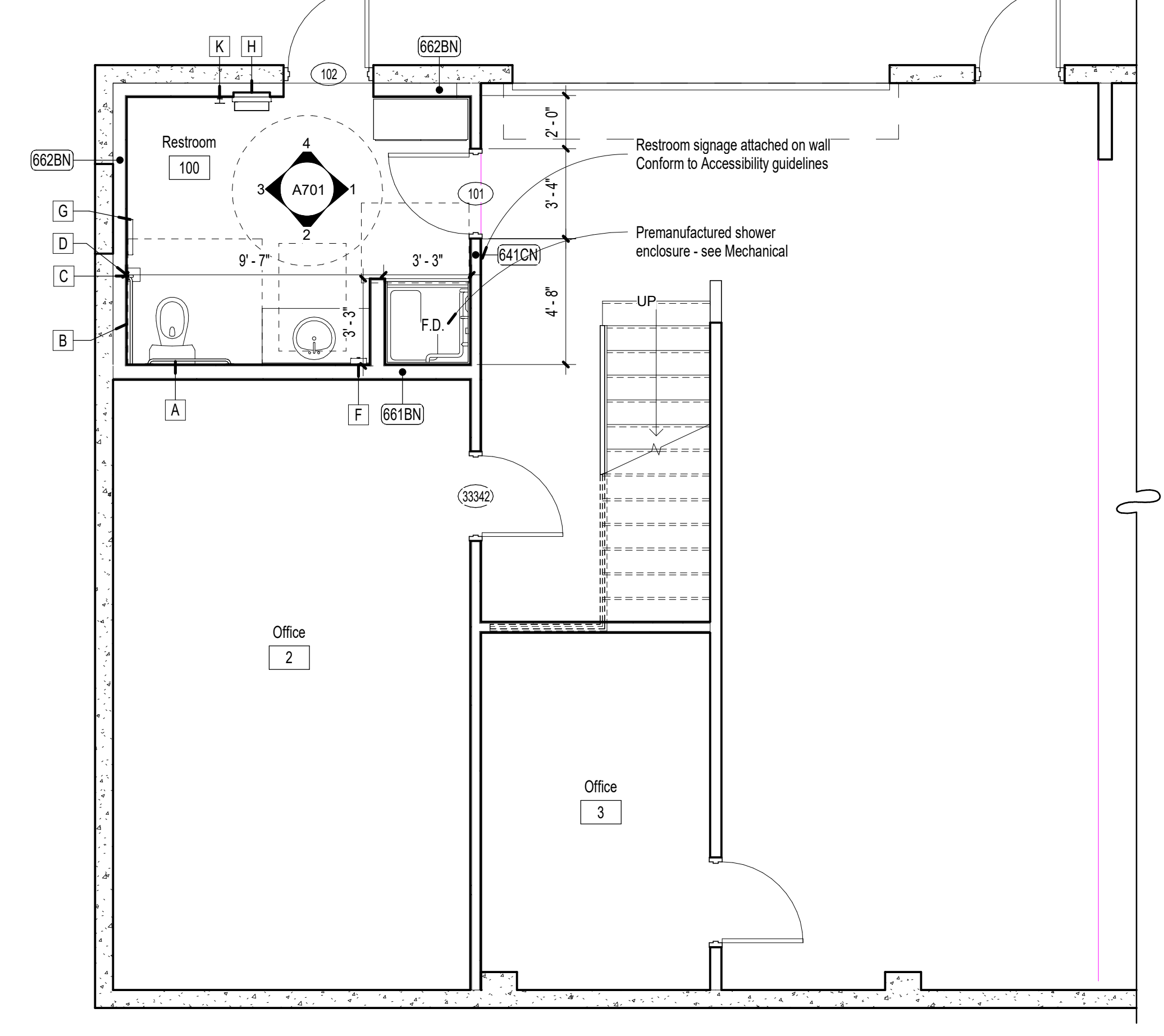
Walls, windows, doors, fixtures, etc. are to be removed and scrapped unless noted otherwise (U.N.O.).



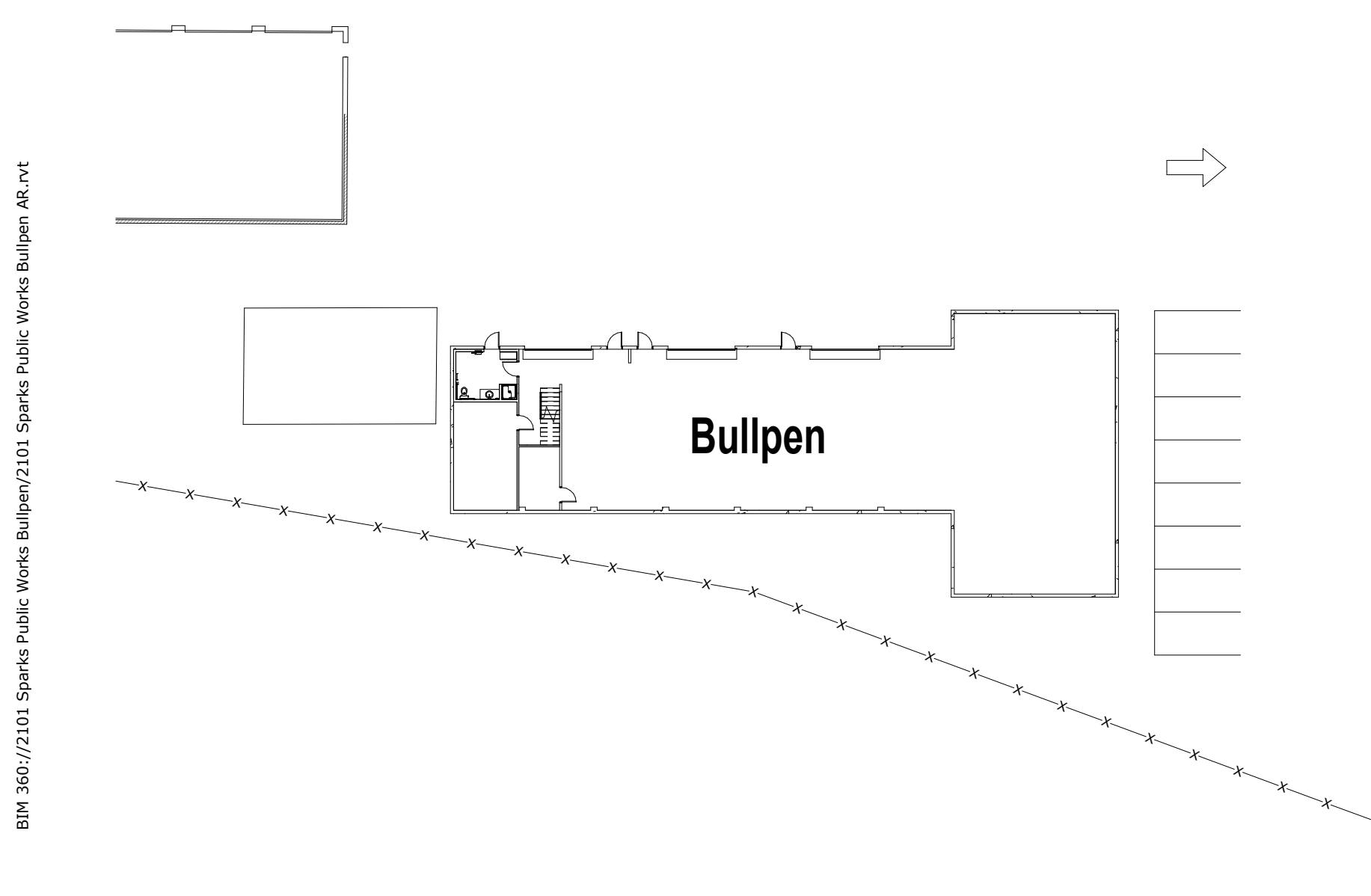
Existing construction, equipment and fixtures to remain.



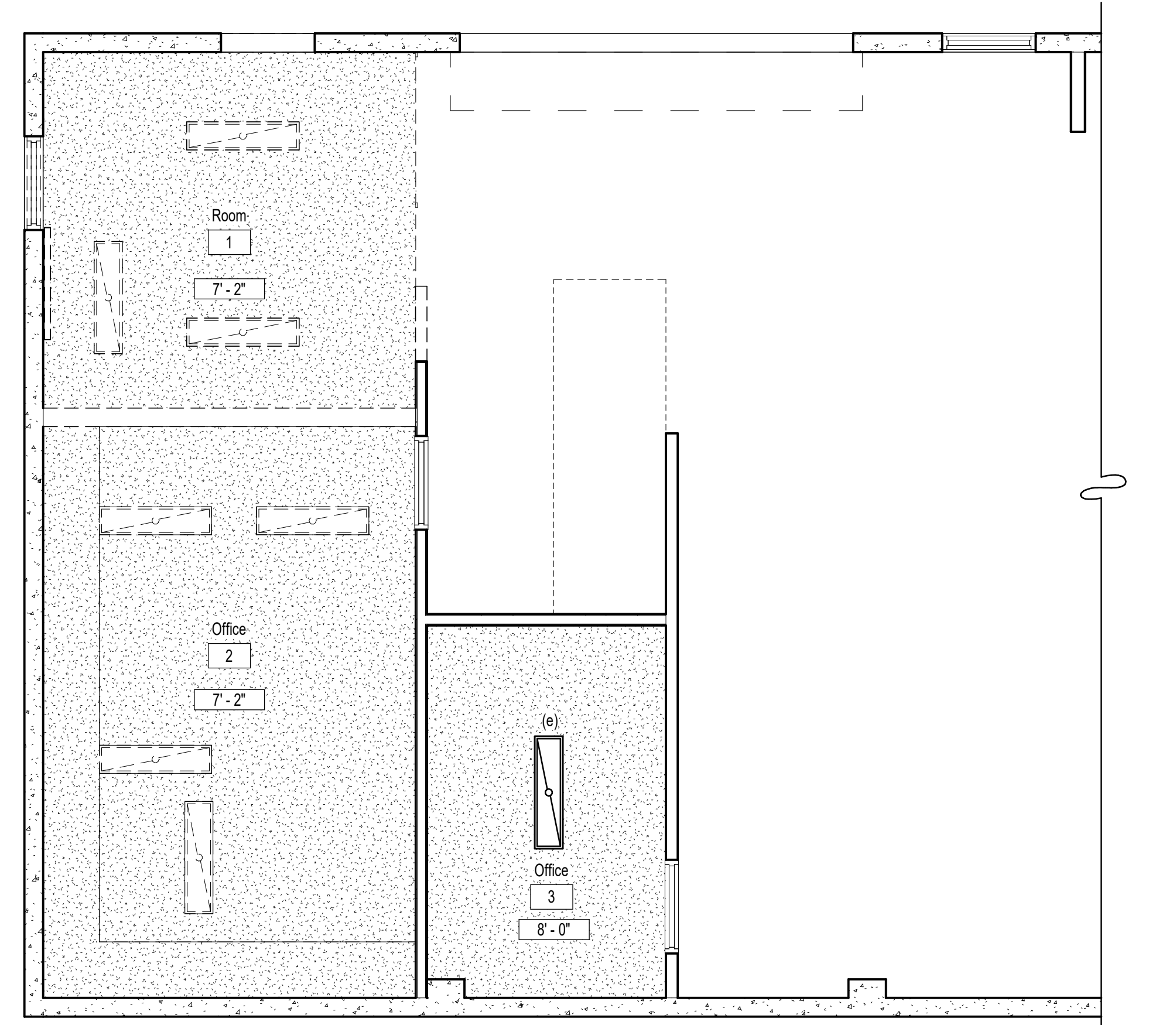
4 Reflected Ceiling Plan
1/4" = 1'-0" North



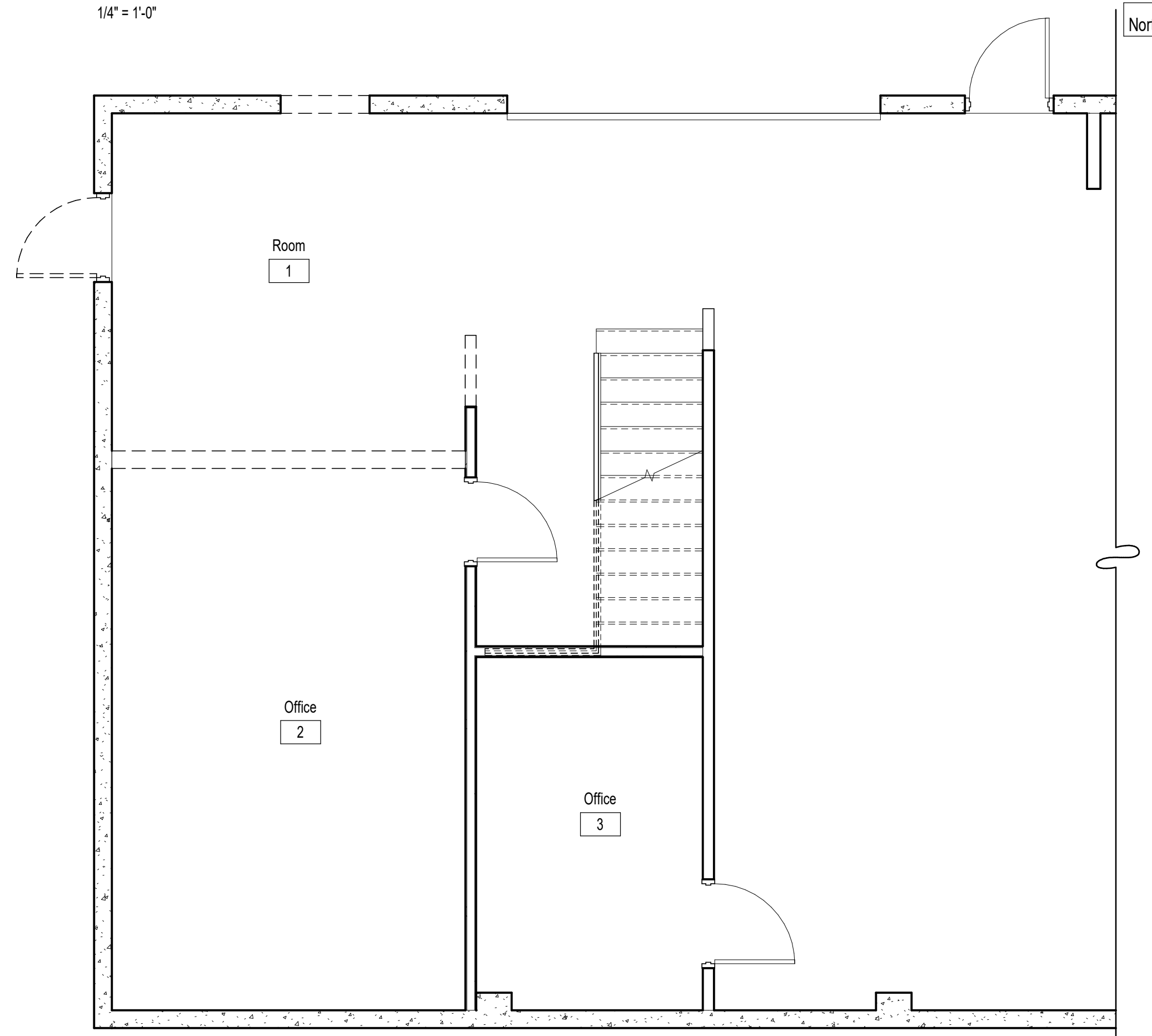
2 Enlarged Floor Plan - Restroom
1/4" = 1'-0" North



5 Site Plan
1" = 30'-0" North



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



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

Professional Seal Date Revision



© Copyright H + K Architects

Consultant

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

**Sparks Public Works Bullpen
Toilet Room Renovation**

215 S 21st St
 Sparks, NV 89431

Ceiling and Floor Plans

May 28, 2021
 H+K Project No: 2101

A101



BIN 3607/2101 Sparks Public Works Bullpen/2101 Sparks Public Works Bullpen AR.rvt

6/1/2021 10:06:40 AM

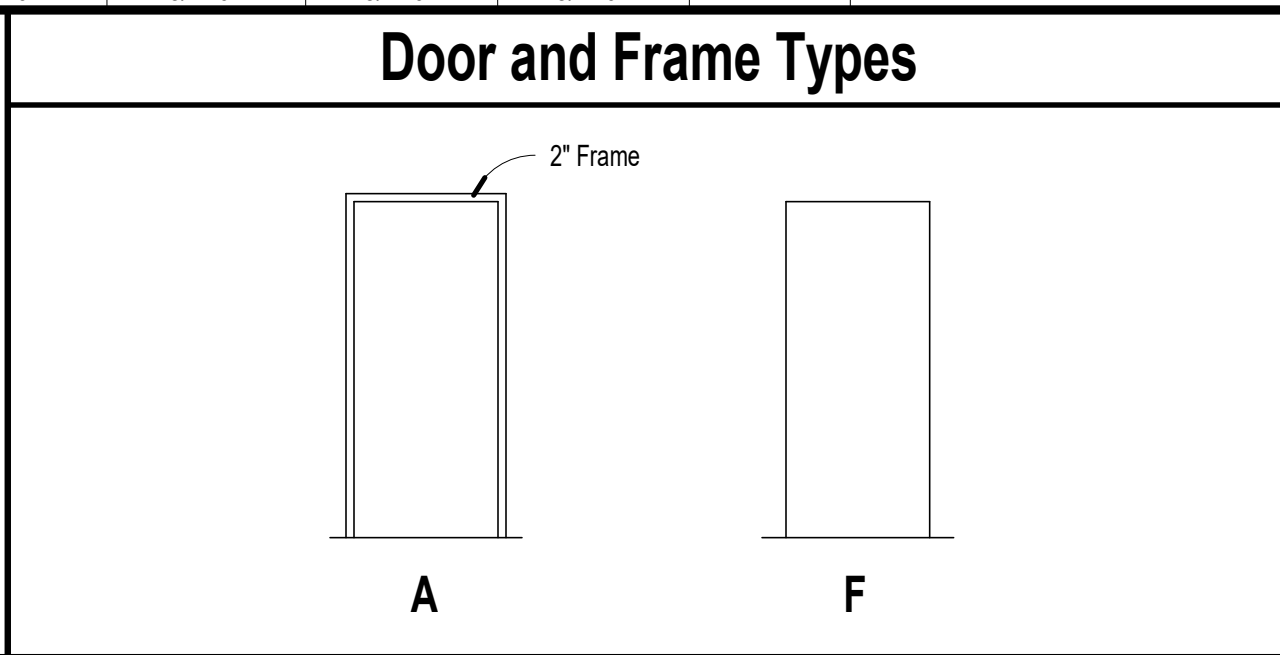
Door Hardware Group H1				
Qty.	Item	Description	Finish	Manufacturer
3	Hinges	BB1168 4.5x4.5	652	Hager
1	Entry Lock	Rhodes	626	Schlage
1	Deadbolt	B571	626	Schlage
1	Cylinder	Keymark	626	Medeco
1	Closer	4040XP	689	LCN
1	Wall Stop	1270WVCP	619	Trimco
1	Perimeter Gasket	S88	GR	Pemko
1	Threshold	426	628	NGP

Door Hardware Group H2				
Qty.	Item	Description	Finish	Manufacturer
3	Hinges	BB1194 4.5x4.5	652	Hager
1	Entry Lock	Rhodes	626	Schlage
1	Deadbolt	B571	626	Schlage
1	Cylinder	Keymark	626	Medeco
1	Closer	4040XP	689	LCN
1	Wall Stop	1270WVCP	619	Trimco
1	Perimeter Gasket	S88	GR	Pemko
1	Threshold	426	628	NGP

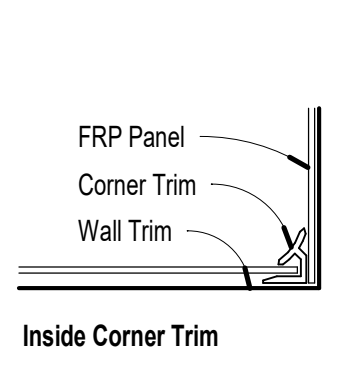
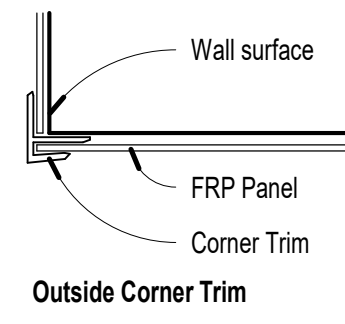
Door Schedule																	
Door Number	DOOR							FRAME				DETAILS				Hardware Group	Comments
	Width	Height	Pair	Material	Type	Glass	Door Rating	Material	Frame Depth	Frame Rating	Elev.	Glass	Head	Strike	Hinge		
101	3'-0"	7'-0"	-	WV	F	-	-	HM	5 3/4"	-	A	-	7/A701	6/A701	6/A701	5/A701	H1
102	3'-0"	7'-0"	-	WV	F	-	-	HM	5 3/4"	-	A	-	9/A701	8/A701	8/A701	5/A701	H2

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	Owner Supplied	
G	Toilet Seat Cover Dispenser	B-4221	Bobrick
H	Semi-Recessed Convertible Combination Towel and Waste Unit	B-3942	Bobrick
K	Bobrick B-6727 Surface Mounted Double Robe Hook	B-6727	Bobrick

Material Legend			
Floor:	F1 Resinous Flooring	Base:	B1 4" Rubber Base
	F2 Polished Concrete		B2 Resinous Wainscot
Walls:	W1 Gypsum Board - Painted	Ceiling:	C1 Gypsum Board - Painted
	W2 FRP Panel - Running Bond Brick Pattern		C2 Acoustic Ceiling Panels

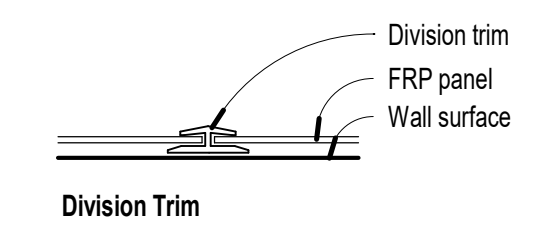
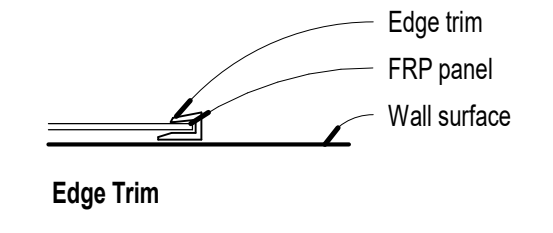


Finish Schedule									
Number	Room Name	Floor Finish	Base Finish	Walls				Ceiling Finish	Remarks
				North	East	South	West		
2	Office	F2	-	W1	W1	W1	W1	C1	
3	Office	F2	-	W1	W1	W1	W1	C1	
100	Restroom	F1	B2	W2	W2	W2	W2	C1	



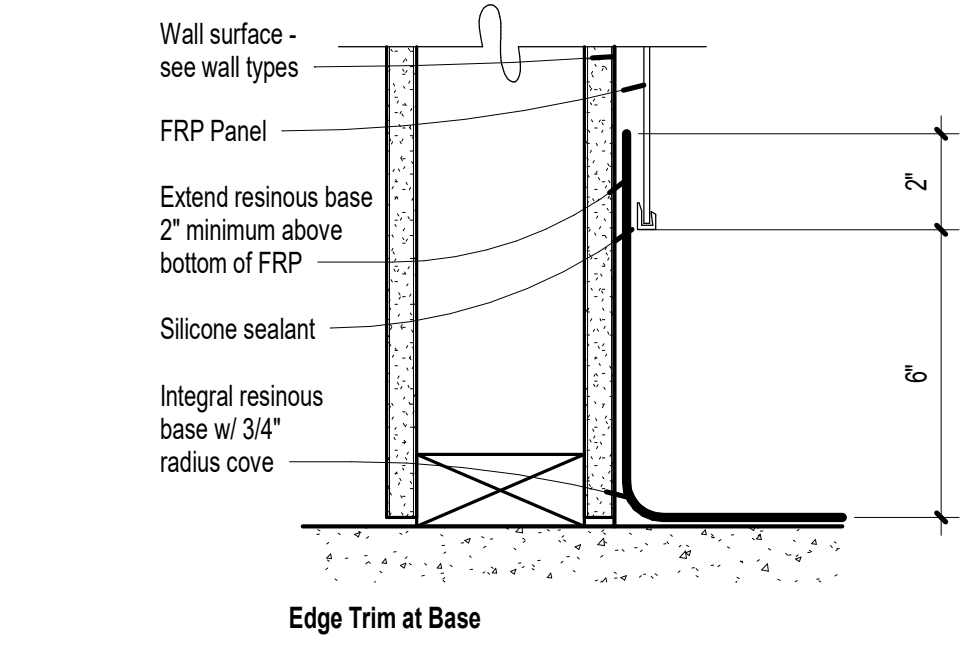
12 FRP Trim Details

3" = 1'-0"



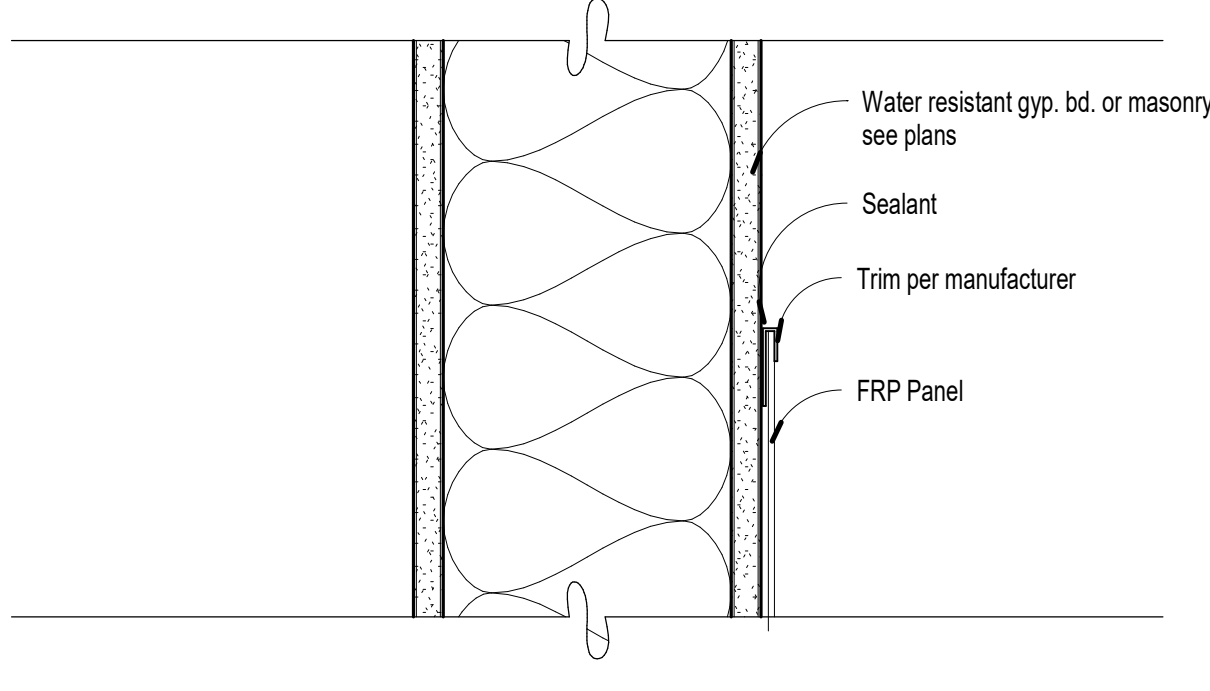
11 FRP at Resinous Base

3" = 1'-0"



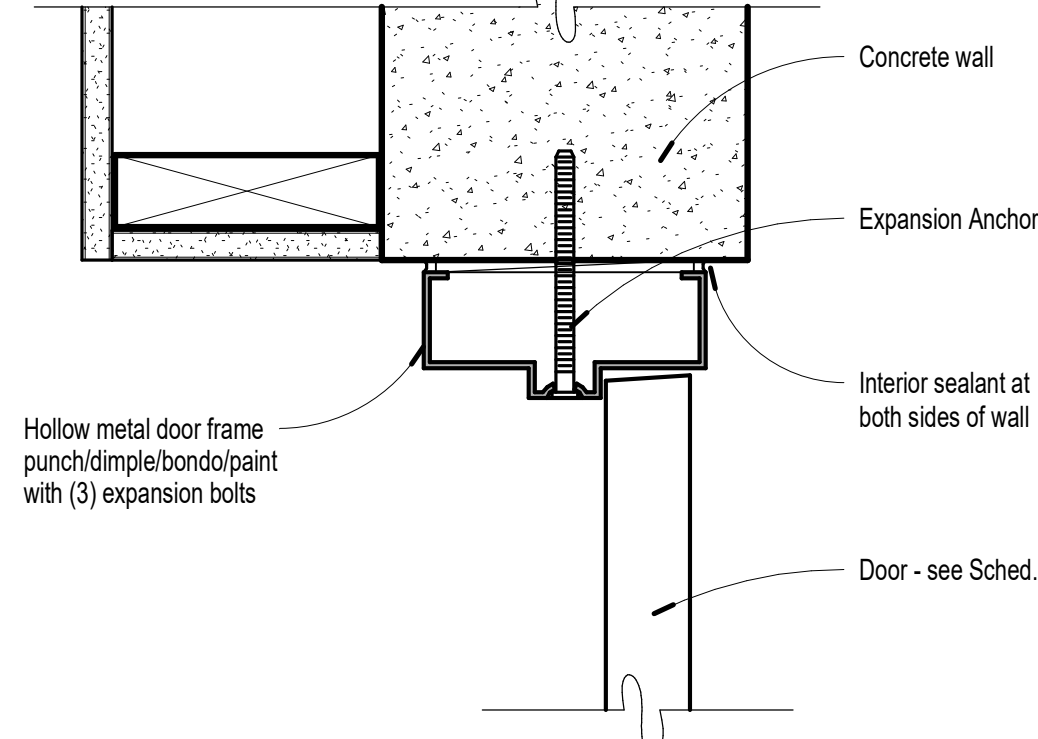
10 FRP Trim Detail

3" = 1'-0"



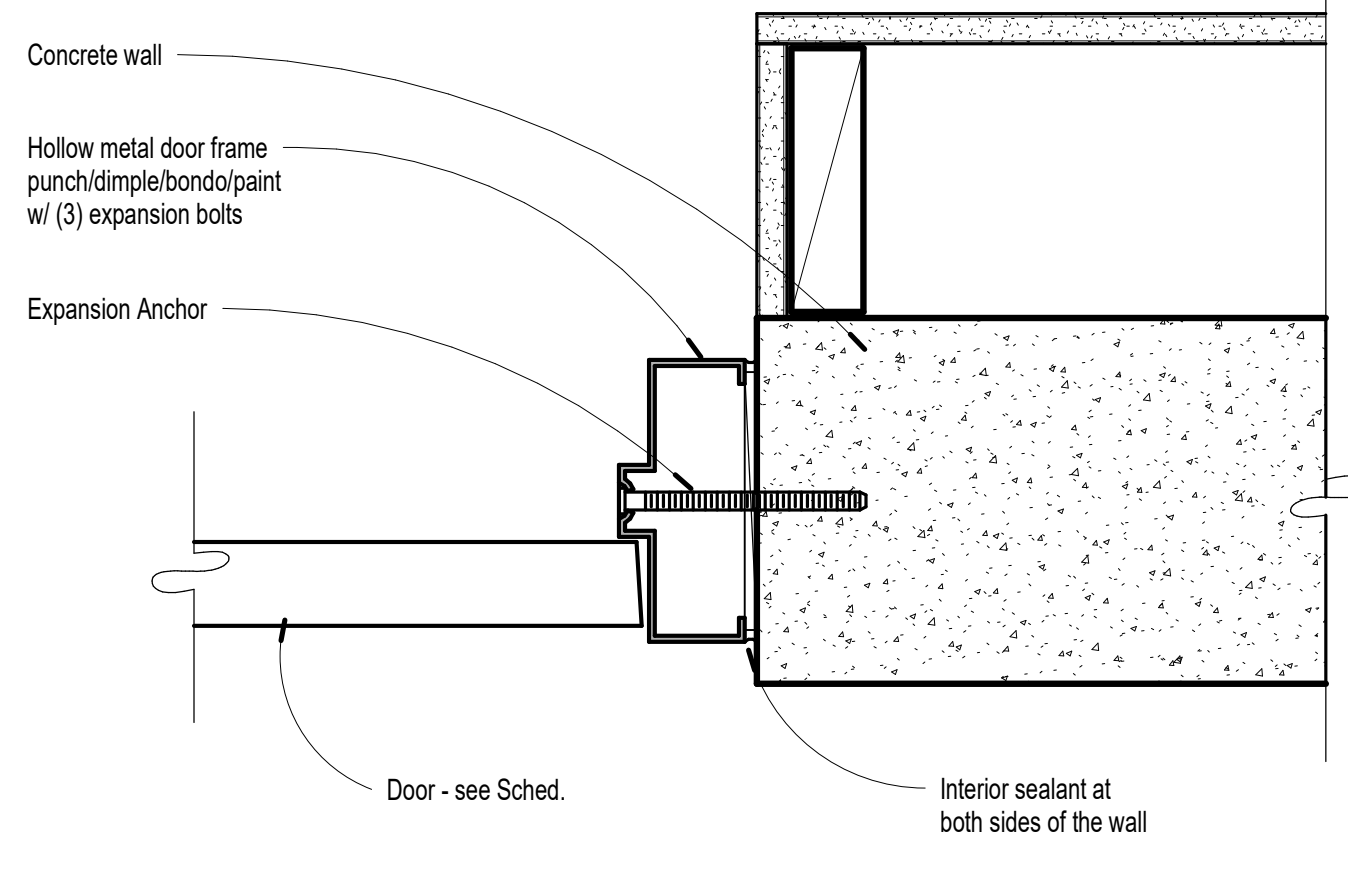
9 HM Door Head at Concrete Wall

3" = 1'-0"



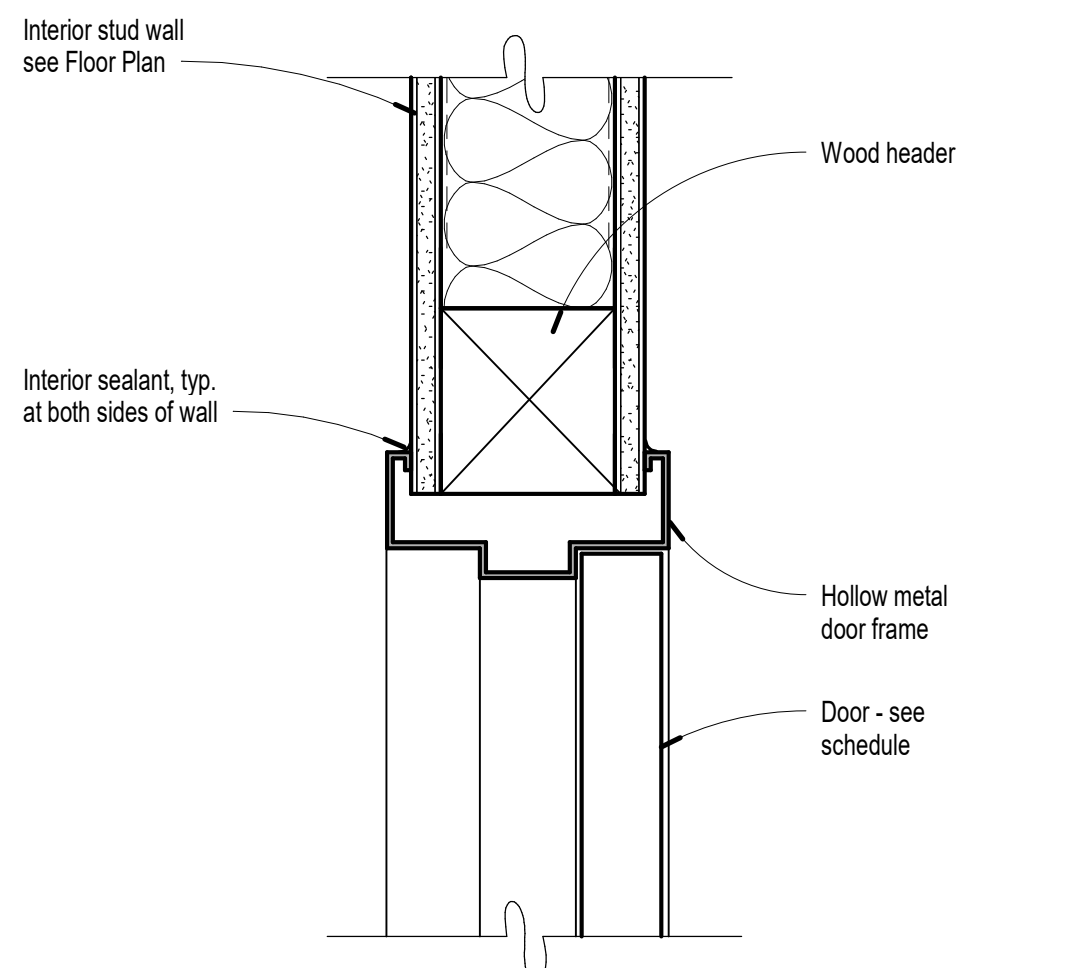
8 HM Door Jamb at Concrete Wall

3" = 1'-0"



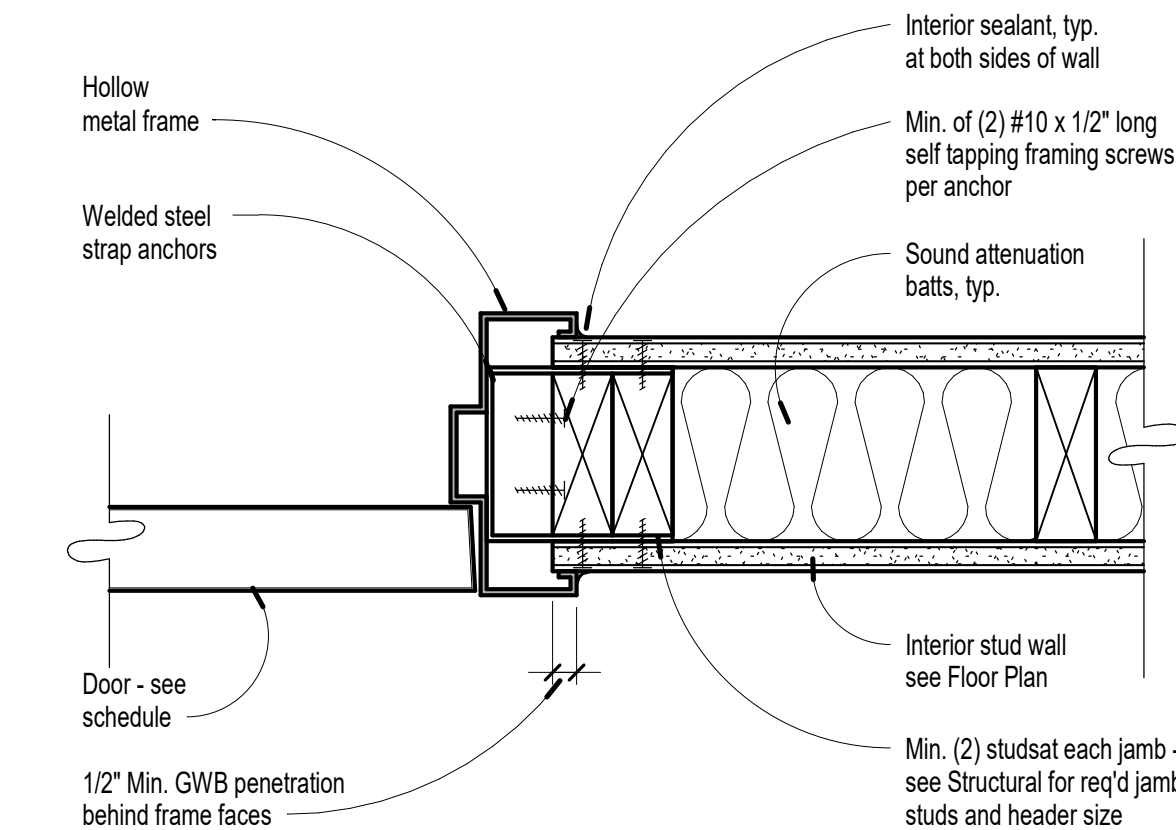
7 HM Door Head at Framed Wall

3" = 1'-0"



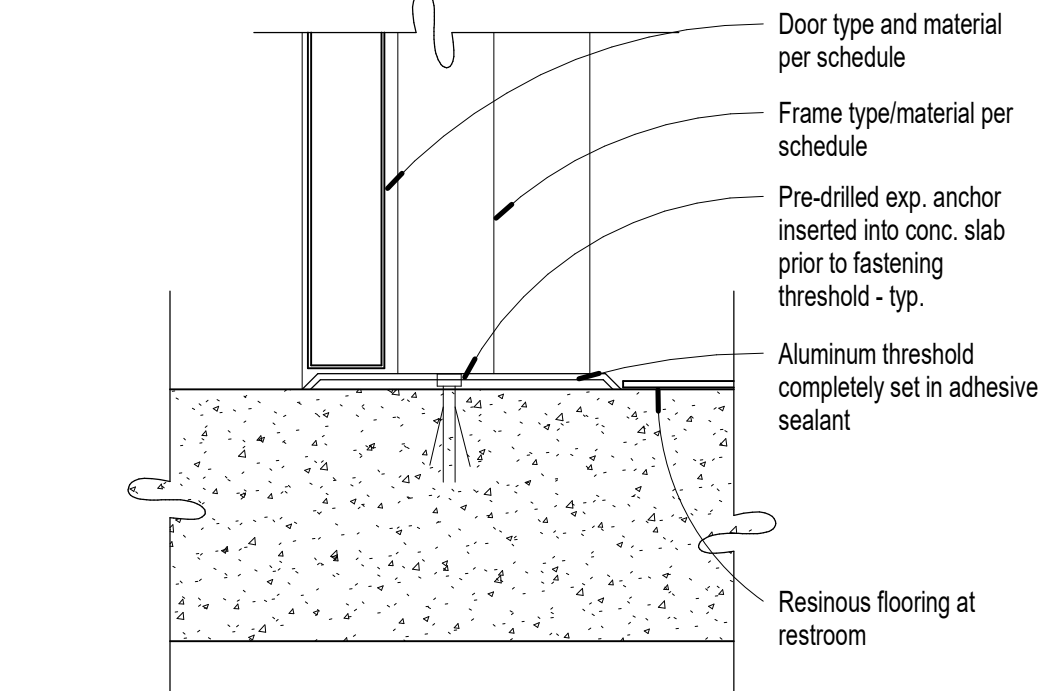
6 HM Door Jamb at Framed Wall

3" = 1'-0"



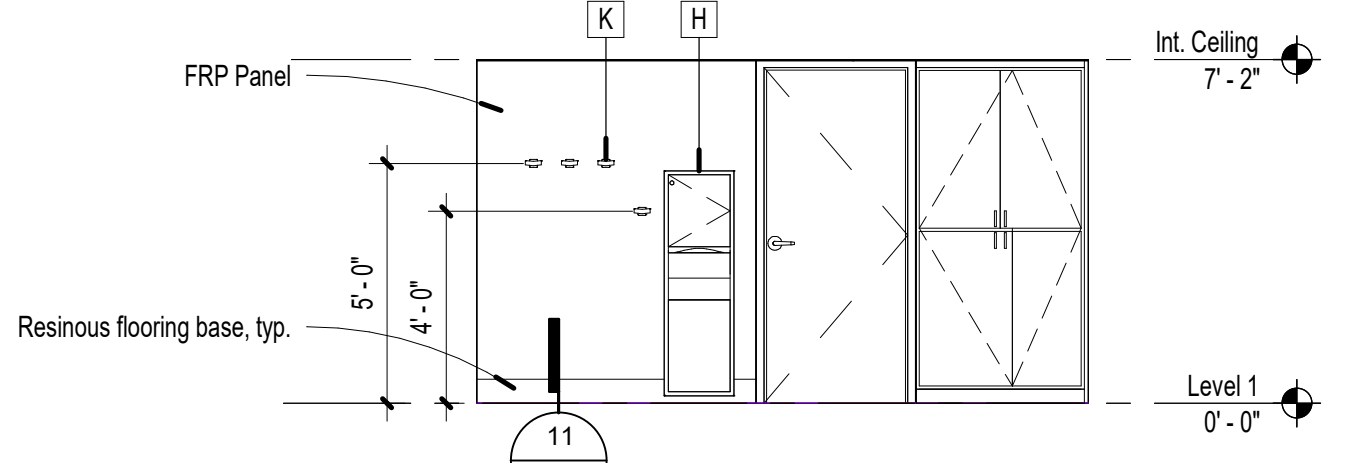
5 Threshold at Door

3" = 1'-0"



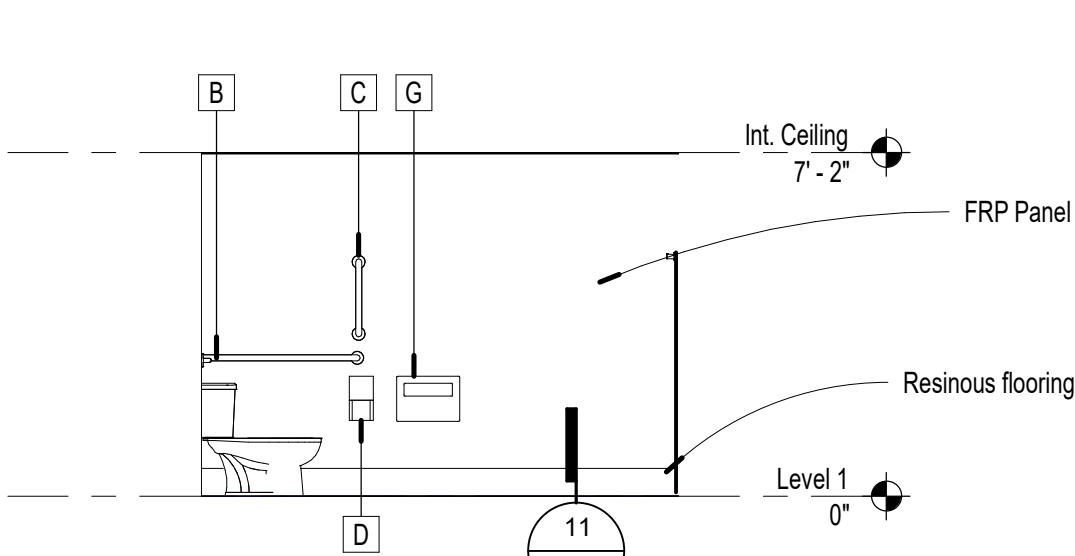
4 Restroom Elevation - North

1/4" = 1'-0"



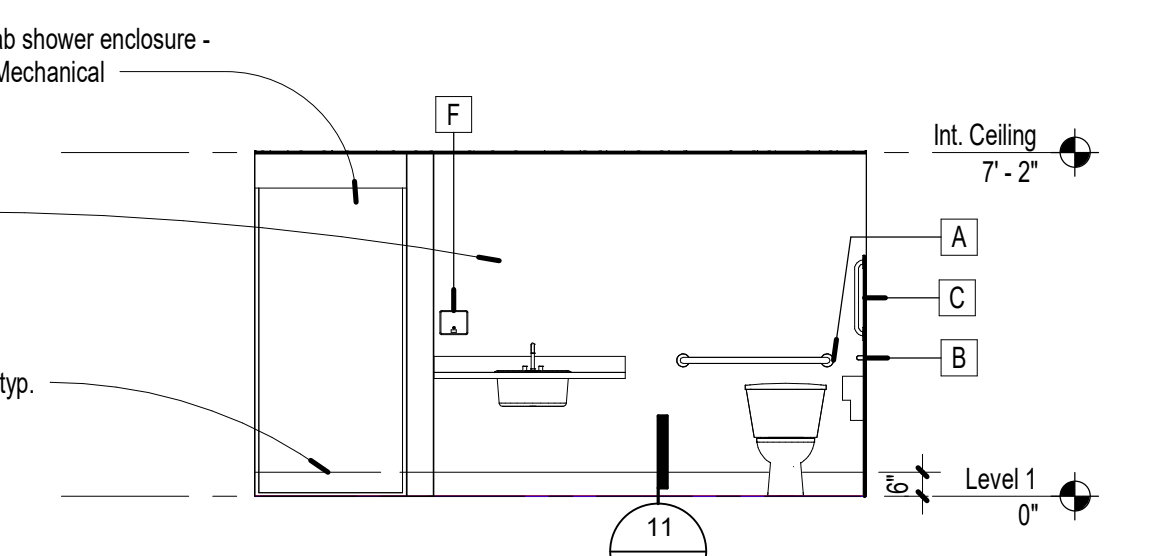
3 Restroom Elevation - West

1/4" = 1'-0"



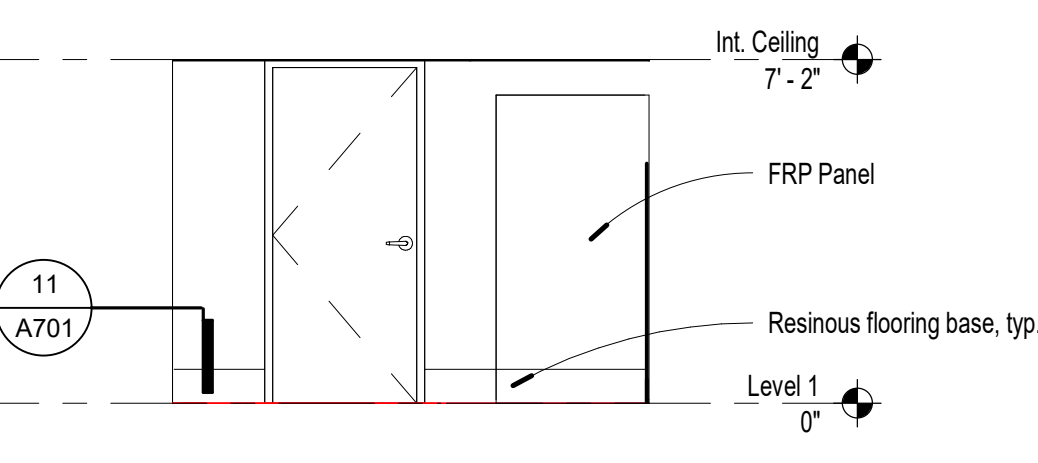
2 Restroom Elevation - South

1/4" = 1'-0"



1 Restroom Elevation - East

1/4" = 1'-0"



1 Restroom Elevation - East

1/4" = 1'-0"

BIN 360/2101 Sparks Public Works Bullpen/2101 Sparks Public Works Bullpen - AR.rvt

6/1/2021 10:06:41 AM



Professional Seal Date Revision

© Copyright H + K Architects

Consultant

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

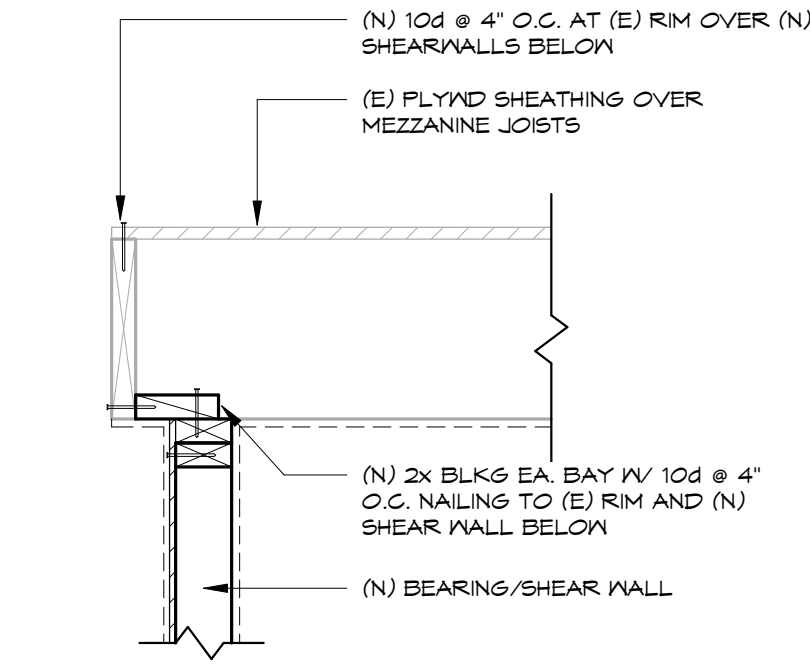
**Sparks Public Works Bullpen
 Toilet Room Renovation**
 215 S 21st St
 Sparks, NV 89431

Interior Restroom Elevations, Details and Accessories Schedule

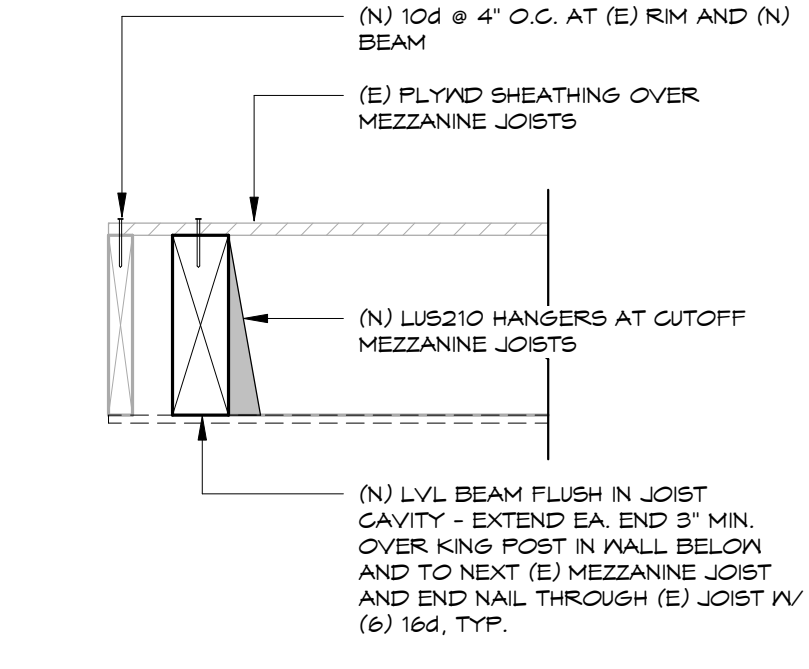
May 28, 2021
 H+K Project No: 2101

A701

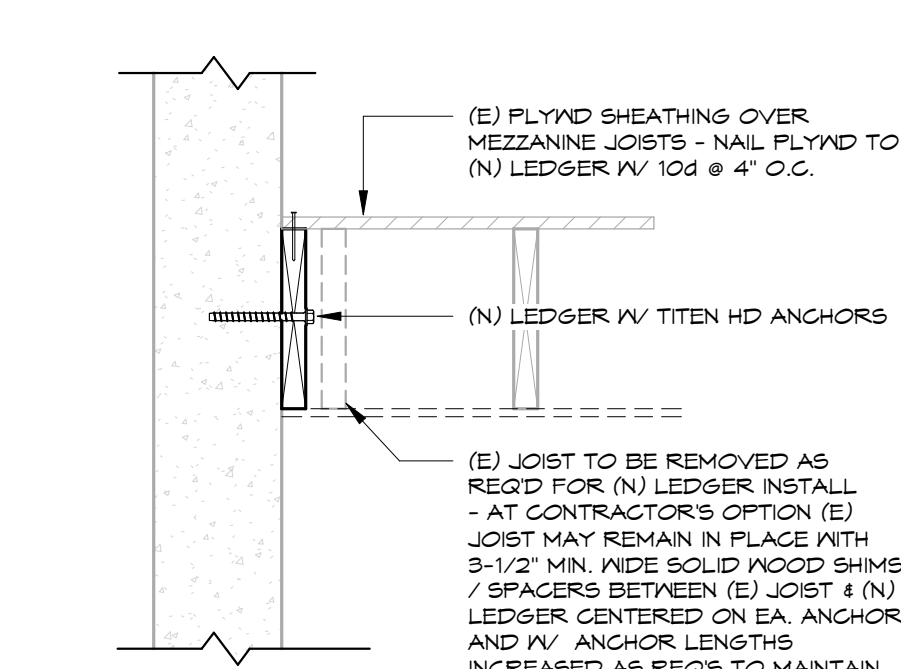




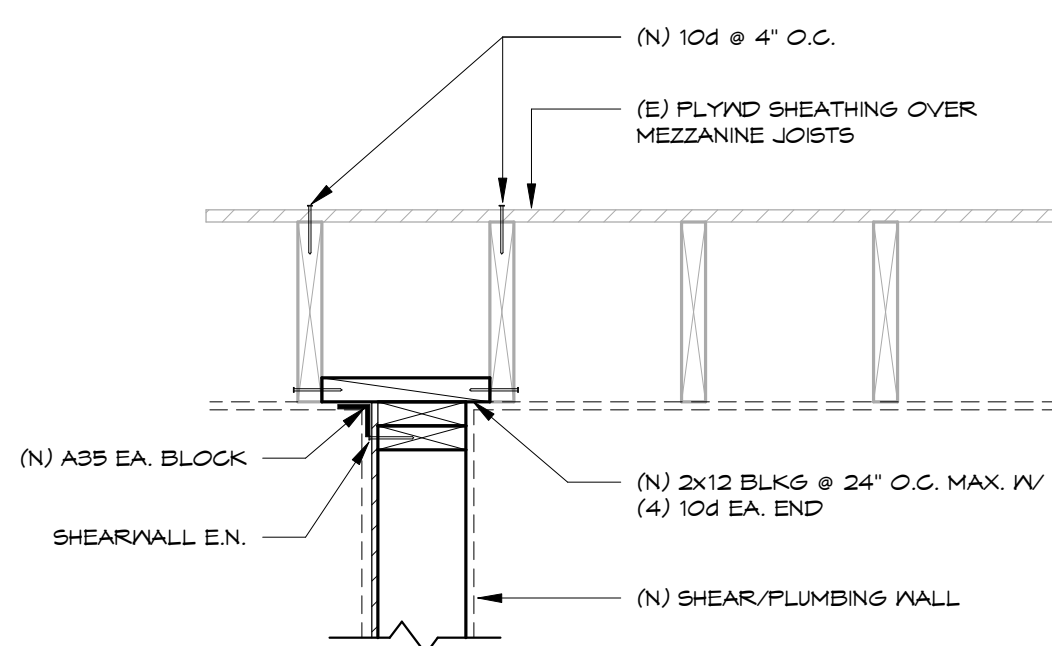
10 Mezzanine Section
1" = 1'-0"



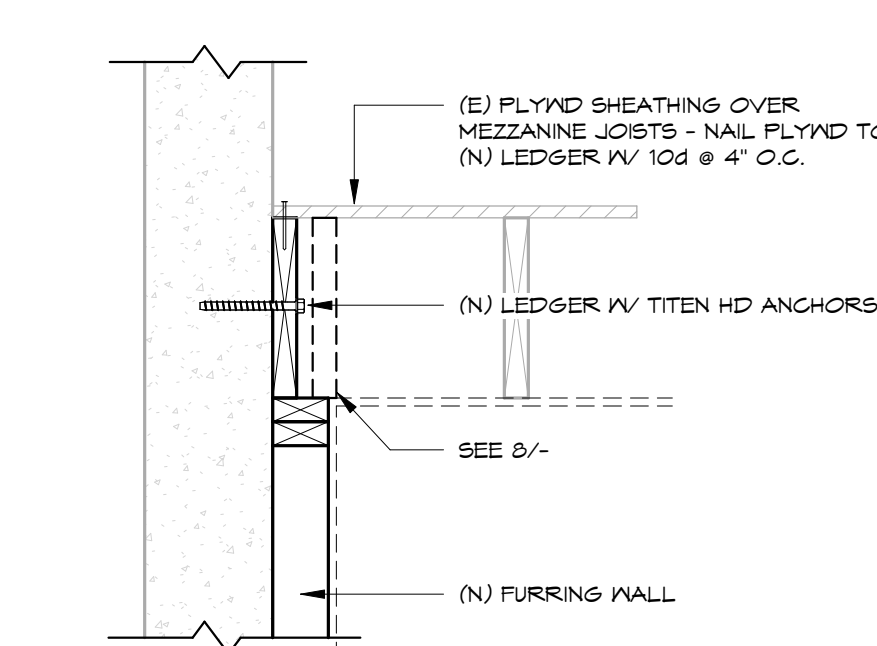
9 Mezzanine Section
1" = 1'-0"



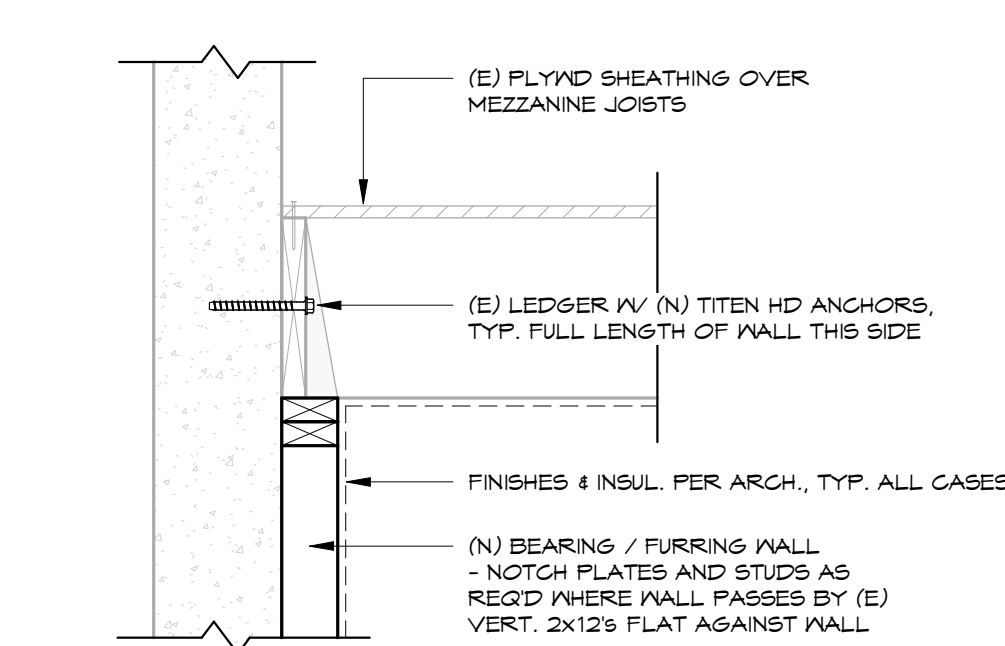
8 Mezzanine Section
1" = 1'-0"



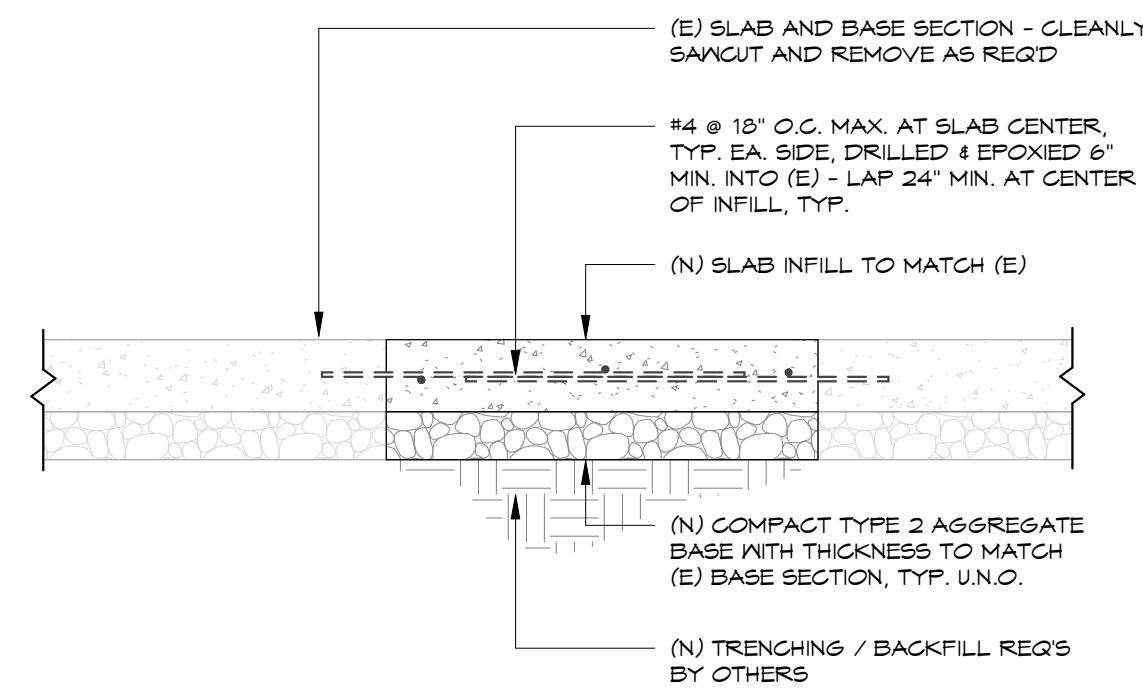
7 Mezzanine Section
1" = 1'-0"



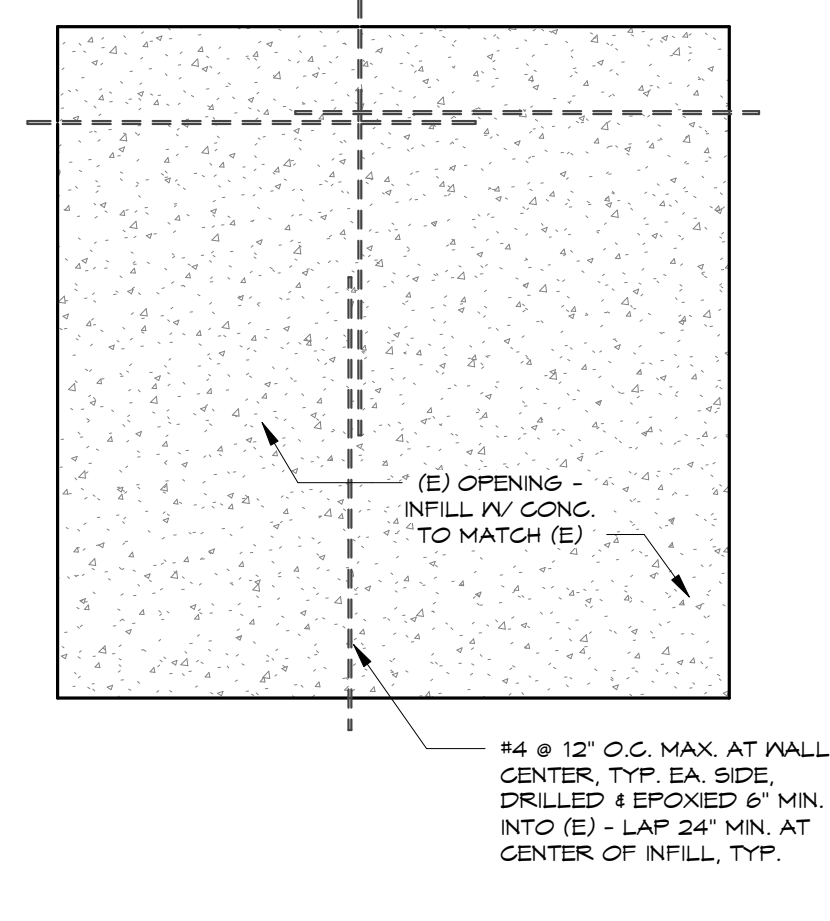
6 Mezzanine Section
1" = 1'-0"



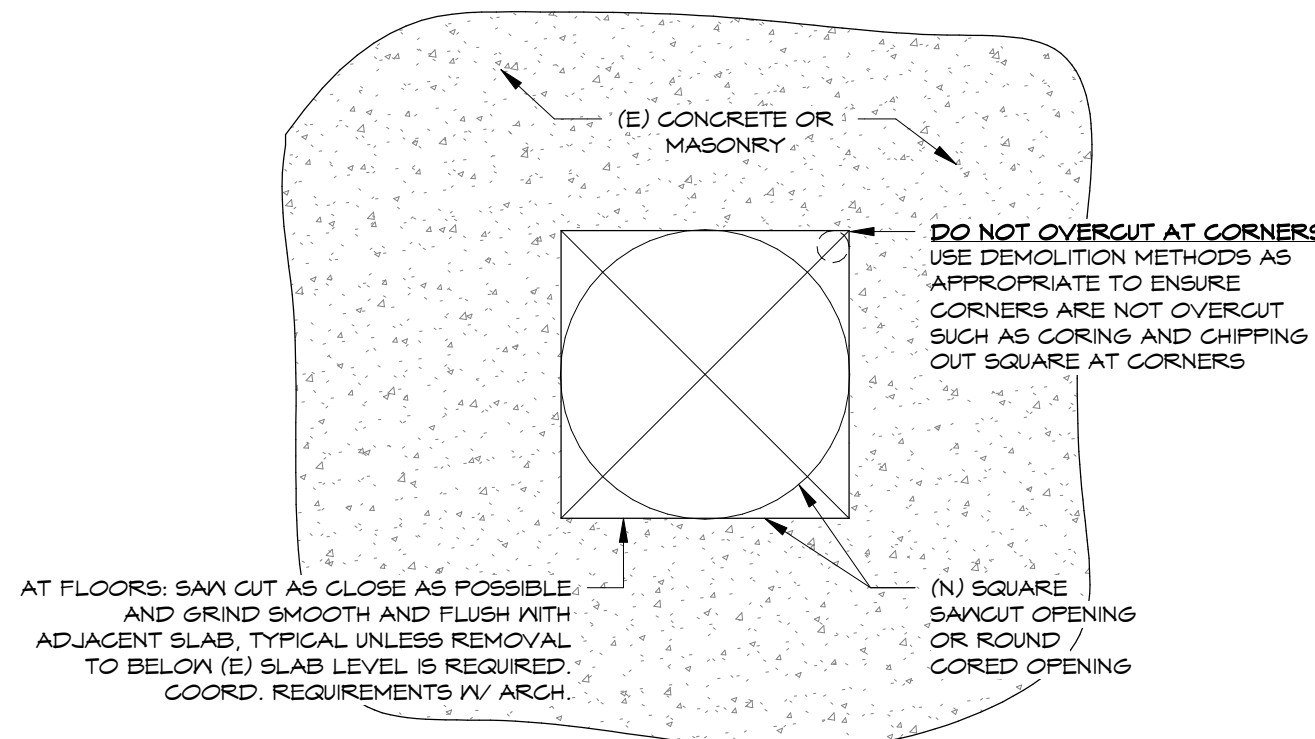
5 Mezzanine Section
1" = 1'-0"



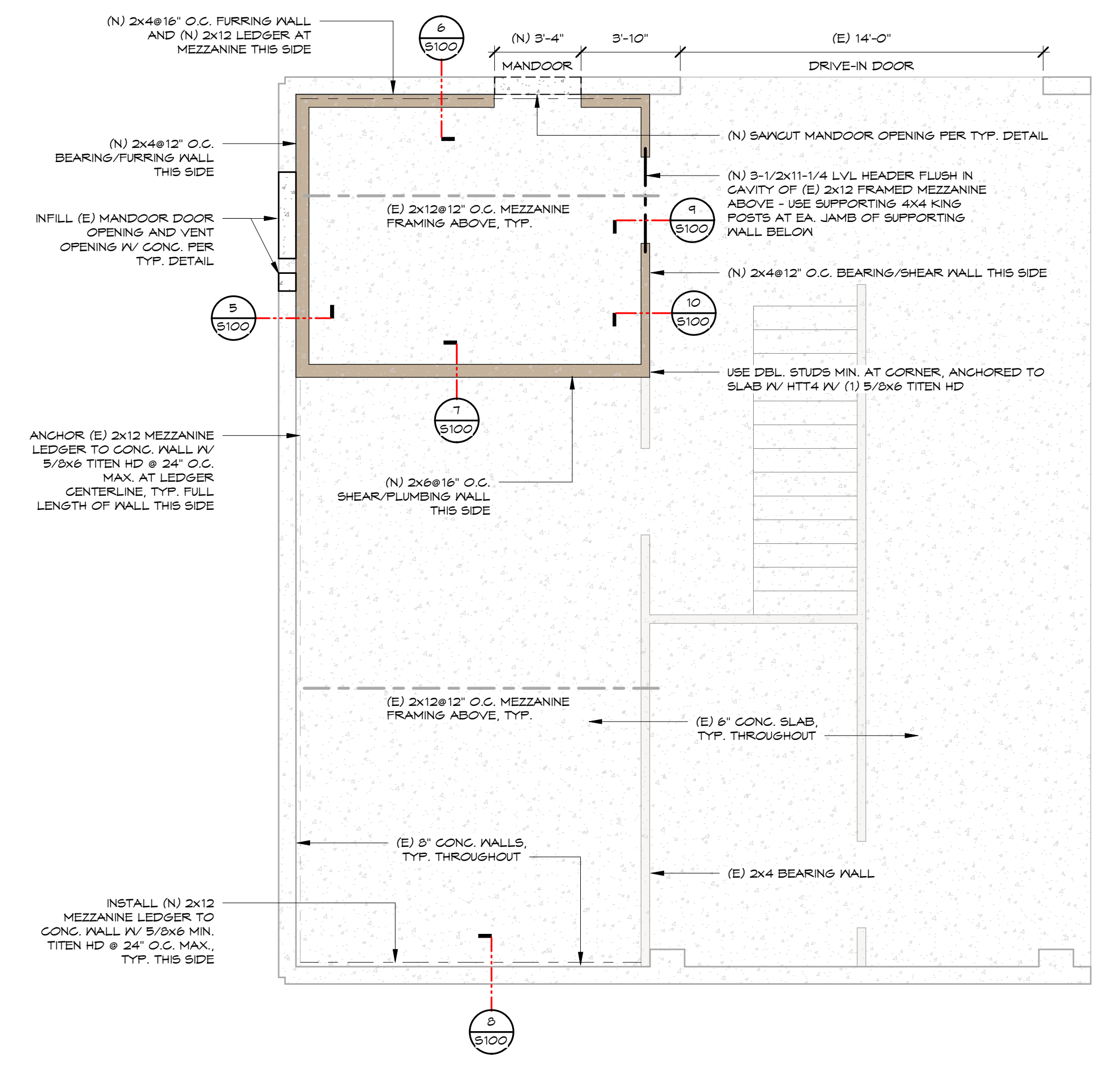
4 Typ. Slab Infill
3/4" = 1'-0"



3 Typ. Concrete Opening Infill
1/2" = 1'-0"



2 Typ. Sawcut Opening
1/2" = 1'-0"



1 Floor Plan
1/4" = 1'-0"

TYP. DIMENSIONS, ELEVATIONS, ETC.

- COORDINATE AND VERIFY ALL LAYOUT DIMENSIONS, ELEVATIONS, ETC. IV ARCH.

SLAB-ON-GRADE

- COORDINATE EXTENTS OF SLAB REMOVAL FOR UNDERSLAB IMPROVEMENTS IV ARCH., CIVIL AND MEP DRAWINGS. NEW SLAB REPLACEMENT SHALL BE 6" MIN. CONCRETE WITH REINFORCING DRILLED & EPOXIED INTO ADJACENT EXISTING CONCRETE PER THE TYP. DETAIL PROVIDED.

WOOD WALLS

- USE 2x4 FT SOLE PLATES ANCHORED TO SLAB BELOW IV 5/8x6 TITEN HD ANCHORS @ 32" O.C. MAX. IV 1/4" x 3" 5/8 HDG PLATE WASHERS. USE (2) ANCHORS MIN. PER PLATE AND WITH ANCHORS INSTALLED 8" MAX. FROM PLATE ENDS.
- AT SHEAR WALLS USE 3/8" MIN. APA RATED SHEATHING NAILED TO STUDS IV 8d COMMON @ 4" O.C. AT ALL EDGES AND 12" O.C. MAX. IN FIELD. BLOCK ALL HORIZONTAL EDGES WITH 2x BLOCKING TO MATCH STUDS. ANCHOR STUD AT WALL ENDS ABUTTING CONCRETE WALLS TO THE CONCRETE WALL IV (4) 5/8x6 TITEN HD ANCHORS EQUALLY SPACED. COORDINATE ALL REQUIREMENTS FOR SUBSEQUENT FINISH (I.E. SHEETROCK, ETC.) IV ARCH.
- USE DOUBLE TOP PLATES AT ALL WALLS AND ALIGN STUDS AT BEARING WALLS BELOW MEZZANINE JOISTS ABOVE.
- INSTALL SOLID WOOD BLOCKING IN RESTROOM WALLS AS REQD FOR INSTALLATION OF WALL MOUNTED ITEMS AND FIXTURES. COORDINATE ITEMS AND REQUIREMENTS IV ARCH.



Professional Seal
Date
Revision
5/28/2021
© Copyright H + K Architects

CFBR STRUCTURAL GROUP, LLC

5425 LOUIE LANE, RENO, NV 89511
P: 775.525.1113
MATTHEW FETTIG, PE NV LIC. #20004 CA LIC. #74178
CHRIS ROPER, PE/SE NV LIC. #15032 CA LIC. #4734
TYSON COLOVICH, PE NV LIC. #19370 CA LIC. #76006

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

**Sparks Public Works Bullpen
Toilet Room Renovation**
215 S 21st St
Sparks, NV 89431

STRUCTURAL PLAN & DETAILS

May 28, 2021
CFBR Project No: 21_010

S100



5/19/2021 11:30:16 AM

GENERAL NOTES

- ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES, AND INDUSTRY STANDARDS.
- ALL MATERIALS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S PRINTED INSTRUCTIONS.
- ALL EQUIPMENT, 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 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.
- COORDINATE EXACT SIZE AND LOCATION OF DUCTWORK WITH ALL OTHER TRADES.
- 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	WGT. (LBS)	ACCESSORIES
EF 1	GREENHECK SP-B110	100	0.235	115/60/1	80 WATTS	12	1,2,3,4,5,6,7,8,9

- ACCESSORIES:
- CORROSION RESISTANT GALVANIZED STEEL HOUSING
 - WHITE DESIGNER NON-YELLOWING GRILLE
 - INTEGRAL BACKDRAFT DAMPER
 - PLUG TYPE DISCONNECT
 - UL/CUL 507 LISTED
 - POLYPROPYLENE WHEEL
 - ADJUSTABLE MOUNTING BRACKET
 - ROUND HOODED WALL CAP
 - ROUND DUCT CONNECTION

MECHANICAL EQUIPMENT SCHEDULE

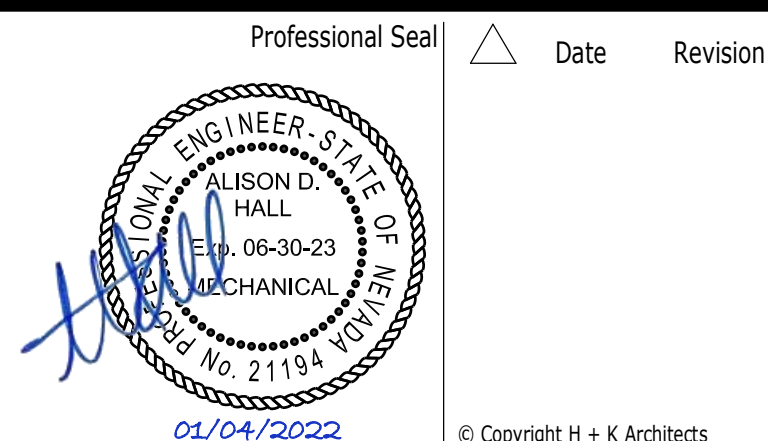
WH 1	WALL HEATER QMARK MODEL #CWH1201DSF FORCED FAN WALL HEATER, 1800W, 120V. FURNISH WITH RECESSED MOUNTING FRAME.
---------	---

MECHANICAL LEGEND

	AIR IN (OUTSIDE AIR OR RETURN AIR, RESPECTIVELY)
	EXHAUST AIR DUCT SECTION
	SUPPLY 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
	AIR CONDITIONING
	ACCESS DOOR, ACCESS PANEL
	CUBIC FEET OF AIR PER MINUTE
	AIR CHANGES PER HOUR
	EXHAUST FAN
	DEGREES FAHRENHEIT
	FROM ABOVE, TO BELOW
	FROM BELOW, TO ABOVE
	GAUGE
	GALVANIZED
	AUTOMATIC / MANUAL AIR VENT
	MAXIMUM, MINIMUM
	MANUAL DAMPER
	PITCH DOWN IN DIRECTION OF ARROW
	RETURN AIR, EXHAUST AIR
	SUPPLY AIR, OUTSIDE AIR
	TYPICAL
	ABOVE FINISHED FLOOR
	ABOVE FINISHED GRADE
	NORMALLY CLOSED
	NORMALLY OPEN

DRAWING SHEET INDEX

M001	MECHANICAL LEGENDS, SCHEDULES, AND NOTES
M002	MECHANICAL SPECIFICATIONS
M101	MECHANICAL FLOOR PLANS



H+K ARCHITECTS

5485 Reno Corporate Drive, Suite 100
Reno, Nevada 89511-2262

P 775+332+6640
F 775+332+6642

hkarchitects.com

Sparks Public Works Bullpen Toilet Room Renovation

215 S 21st St.
Sparks, NV 89431

MECHANICAL LEGENDS,
SCHEDULES, AND
NOTES

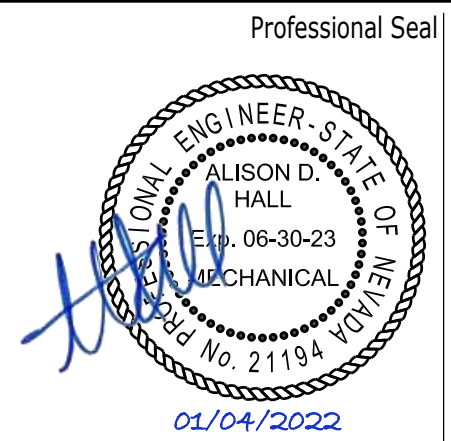
May 28, 2021
H+K Project No: 2101

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 ANSE/NFPA 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. COMPLY WITH APPLICABLE PORTIONS OF 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 ANSE/NFPA 90B, 'STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS' FOR ALL WORK IN THIS SECTION.
 4. RECTANGULAR AND ROUND DUCTWORK SHALL BE GALVANIZED STEEL. DUCT GAUGES, CONSTRUCTION, AND INSTALLATION SHALL CONFORM TO THE RECOMMENDATIONS OF THE LATEST SMACNA LOW PRESSURE DUCT CONSTRUCTION STANDARDS. ALL INTERIOR EXPOSED DUCTWORK SHALL BE ETCHED FOR PAINTING.
 5. DUCT FITTINGS AND CIRCUMFERENTIAL JOINTS SHALL BE SEALED WITH WATER BASED VINYL ACRYLIC DUCT SEALER, DESIGN POLYMERICS DP1010, OR APPROVED EQUAL.
 6. DUCT INSULATION SHALL COMPLY WITH THE REQUIREMENTS LISTED IN 2018 INTERNATIONAL ENERGY CONSERVATION CODE SECTION C403.11.
 7. DUCT WRAP: ALL CONCEALED METAL SUPPLY, RETURN, AND EXHAUST AIR DUCTWORK AND FITTINGS SHALL BE WRAPPED WITH 2-1/5" THICK FIBERGLASS INSULATION, 3/4 LB DENSITY, WITH REINFORCED FOIL FACING, AND AN R-VALUE OF 6.0. END SEAMS SHALL BE SEALED WITH PRESSURE-SENSITIVE TAPE. LONGITUDINAL SEAMS SHALL BE OVERLAPPED A MINIMUM OF 4 INCHES AND SECURED WITH BOTH STAPLES AND PRESSURE-SENSITIVE TAPE.
 8. SUPPORT ALL INTERIOR DUCTWORK IN ACCORDANCE WITH THE CURRENT SMACNA GUIDELINES.
 9. FLEXIBLE DUCTWORK SHALL BE THERMAFLEX M-KE OR APPROVED EQUAL, CONFORMING TO UL181 CLASS 1 REQUIREMENTS. SECURE WITH PANDUIT FASTENERS.
- B. TEST AND BALANCE**
1. THE AIR AND WATER SYSTEMS TEST AND BALANCE SCOPE OF WORK SHALL BE PERFORMED BY AN AABC CERTIFIED AIR BALANCE CONTRACTOR; RAGLEN SYSTEM BALANCE OR RS ANALYSIS, NO EXCEPTIONS.
 2. ALL AIR AND WATER SYSTEMS AND DEVICES SHALL BE BALANCED TO WITHIN +0% TO +10% OF DESIGN.
 3. 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 IS TO BE PREPARED.
 4. INSTALL ANY DAMPERS, BAFFLES, AND SHEAVES NECESSARY TO ACCOMPLISH THE DESIRED RESULTS.
 5. A FINAL 'COMFORT BALANCE' SHALL BE PERFORMED AS NECESSARY.



Professional Seal	Date	Revision

Consultant

AINSWORTH ASSOCIATES
 MECHANICAL ENGINEERS
 1420 HOLCOMB AVE., SUITE 201 4557 GREENVIEW DR.
 RENO, NV 89502 EL DORADO HILLS, CA 95762
 TEL: 775-329-9100 TEL: 916-737-6014
 www.aa-me.com

JOB: 2021-002

© Copyright H + K Architects

H+K ARCHITECTS
 5485 Reno Corporate Drive, Suite 100
 Reno, Nevada 89511-2262

P 775-332-6640
 F 775-332-6642

hkarchitects.com

**Sparks Public Works Bullpen
 Toilet Room Renovation**

215 S 21st St.
 Sparks, NV 89431

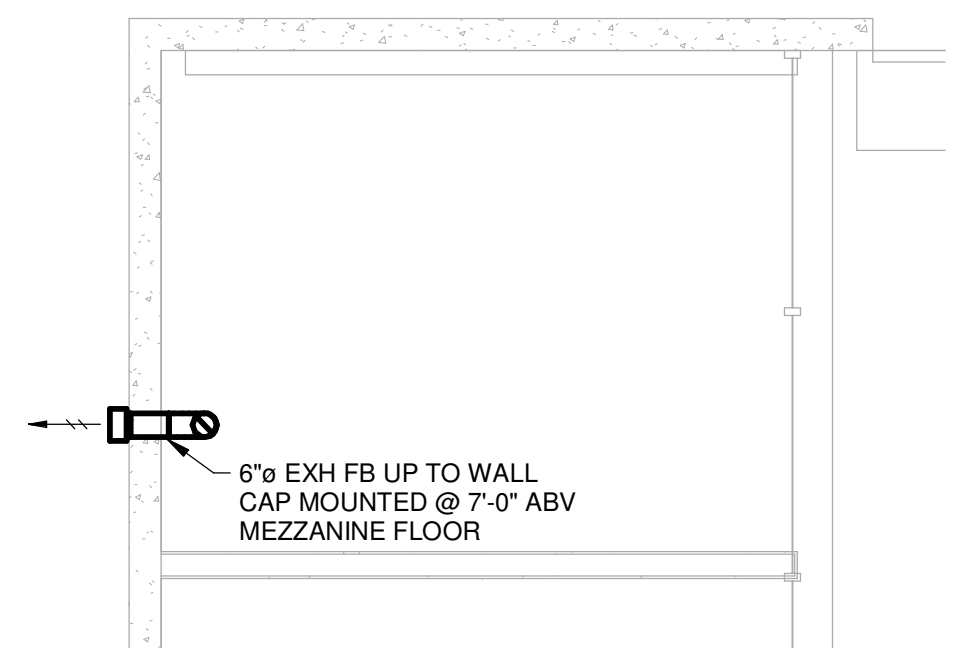
MECHANICAL SPECIFICATIONS

May 28, 2021
 H+K Project No: 2101

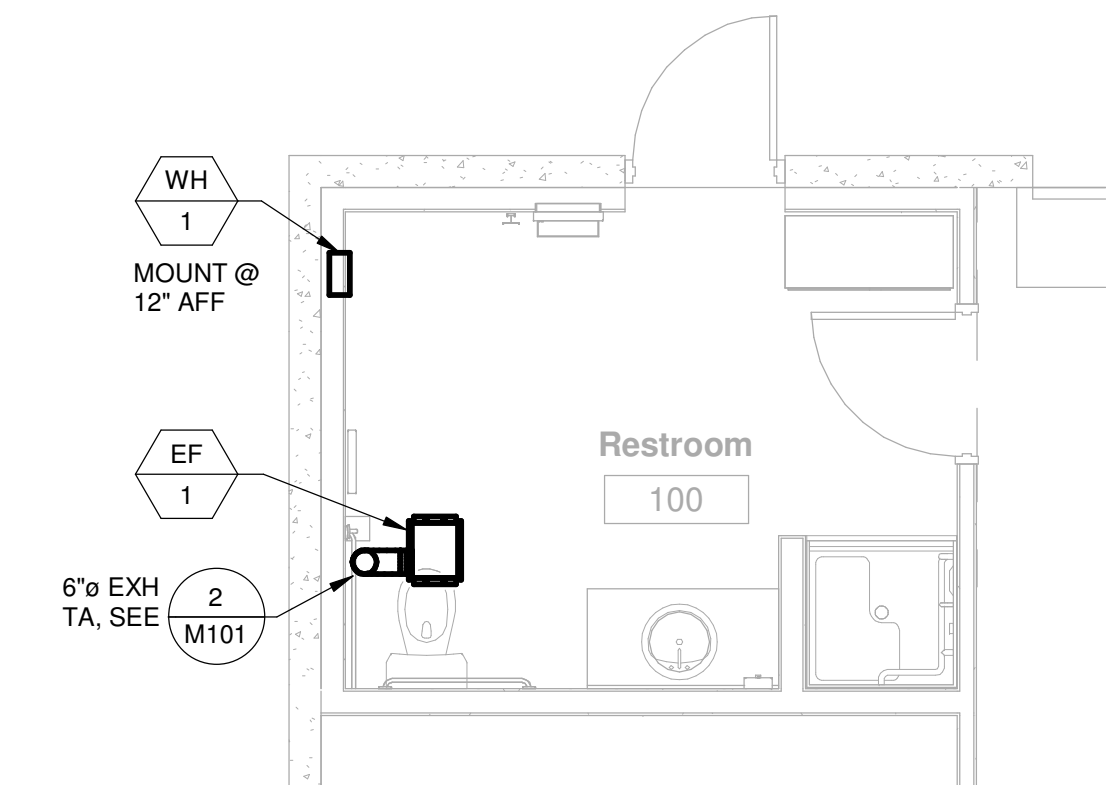
M002



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



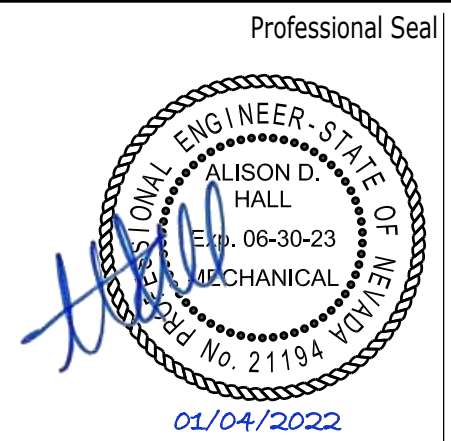
MECHANICAL NEW MEZZANINE PLAN 2
 SCALE: 1/4" = 1'-0" M101 N



MECHANICAL ENLARGED PLAN 3
 SCALE: 1/4" = 1'-0" M101 N

BIM 3607/2101 Sparks Public Works Bullpen/2021-002 Sparks Crew Building Restroom Renovation.rvt

1/4/2022 1:37:31 PM



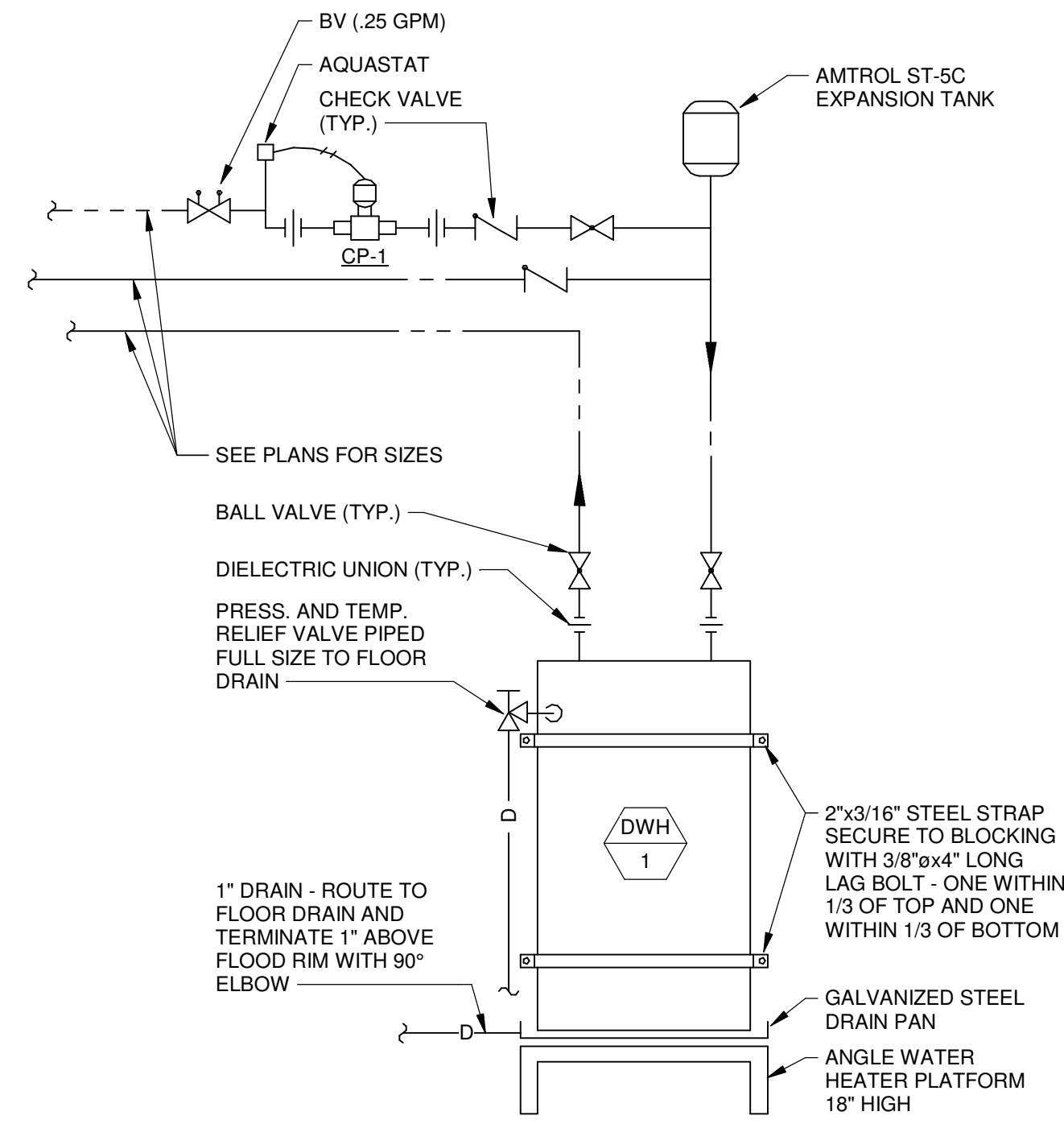
Professional Seal	Date	Revision

AINSWORTH ASSOCIATES
 MECHANICAL ENGINEERS
 1420 HOLCOMB AVE., SUITE 201 RENO, NV 89502
 4557 GREENVIEW DR. EL DORADO HILLS, CA 95762
 TEL: 775-329-9100 TEL: 916-737-6014
 www.aa-me.com
 JOB: 2021-002

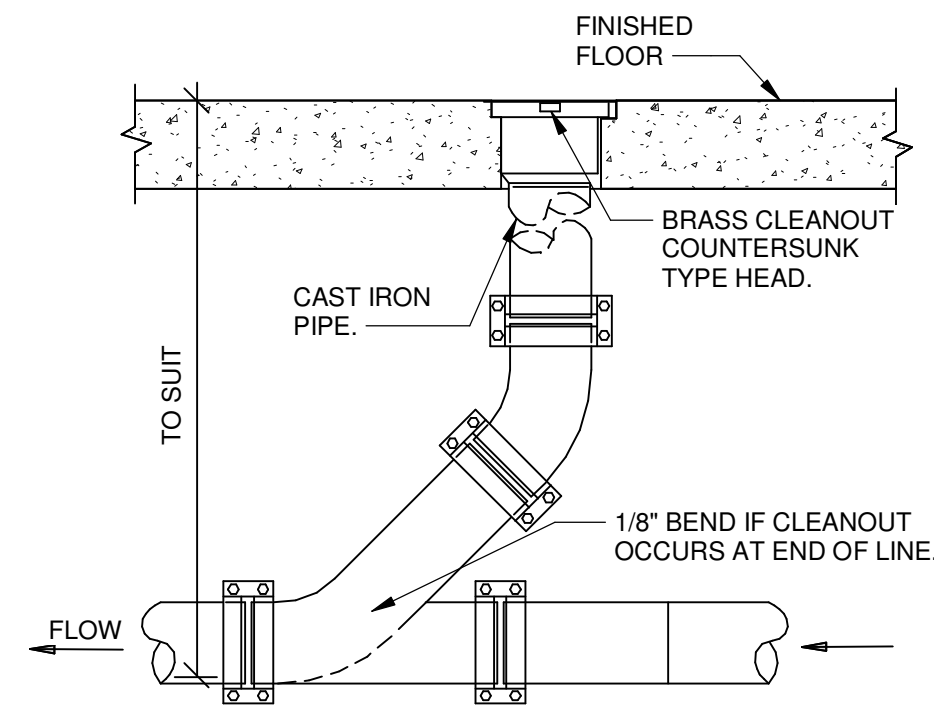
H+K ARCHITECTS
 5485 Reno Corporate Drive, Suite 100
 Reno, Nevada 89511-2262
 P 775+332+6640
 F 775+332+6642
 hkarchitects.com

**Sparks Public Works Bullpen
 Toilet Room Renovation**
 215 S 21st St.
 Sparks, NV 89431

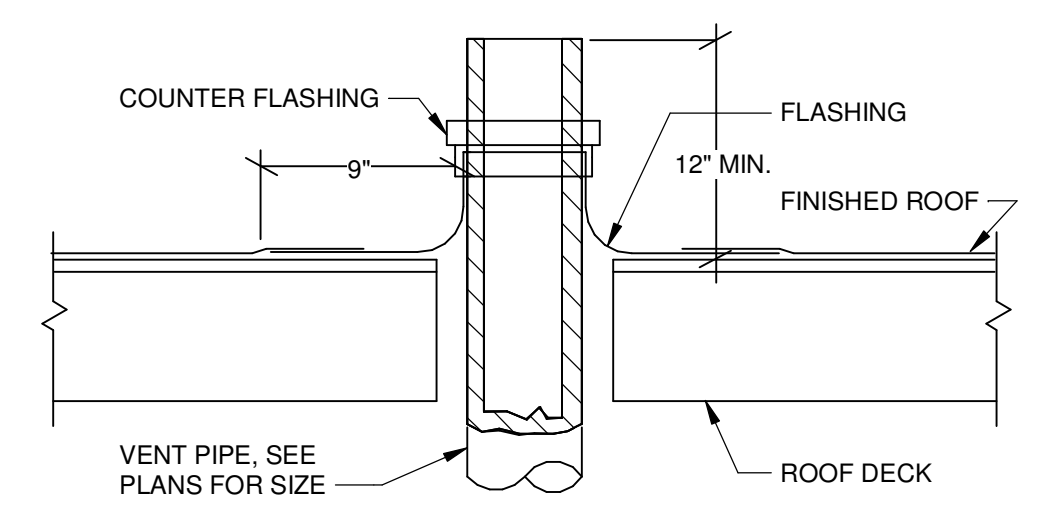
MECHANICAL FLOOR PLANS
 May 28, 2021
 H+K Project No: 2101
M101



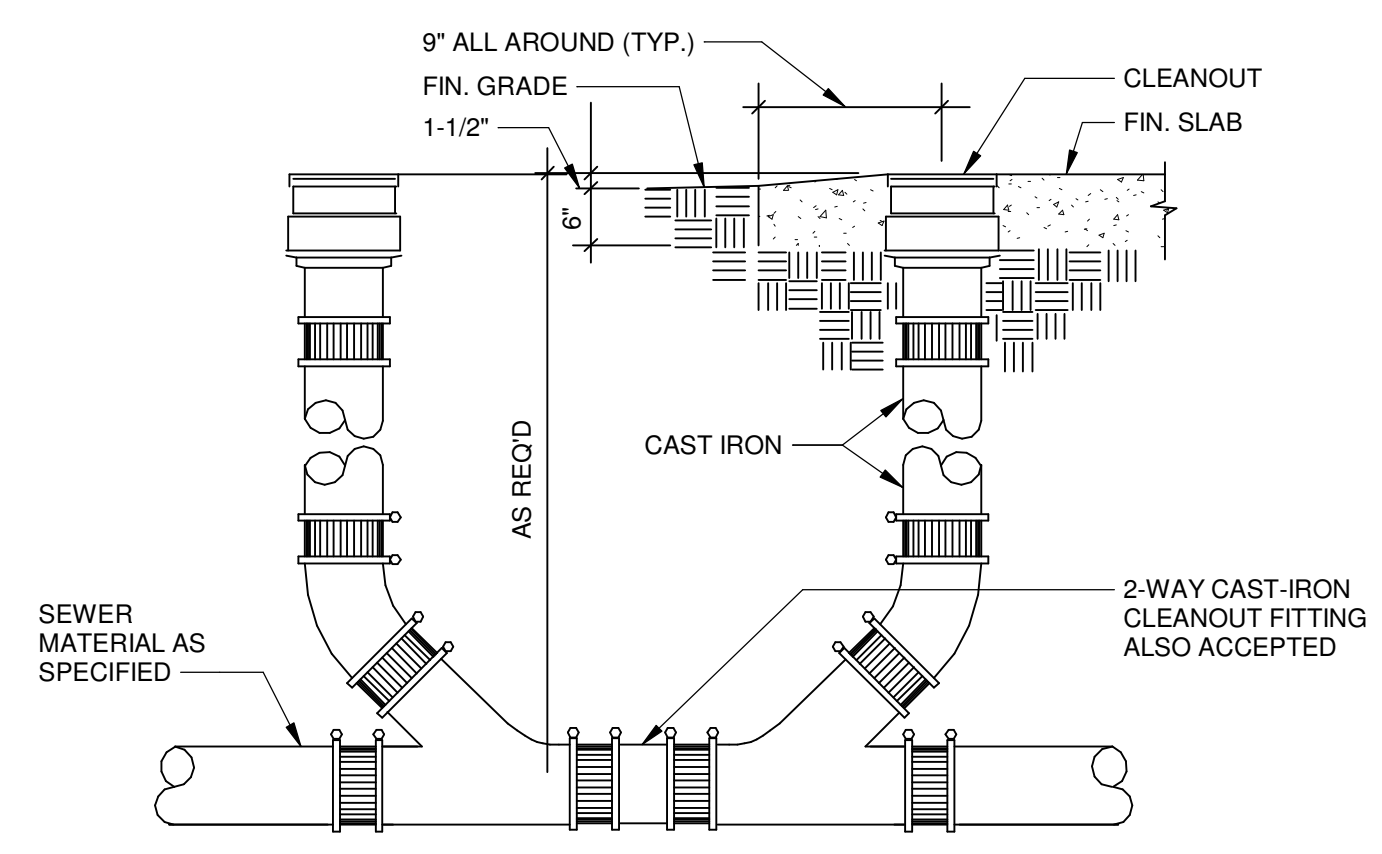
DOMESTIC WATER HEATER PIPING 1
SCALE: NONE P001



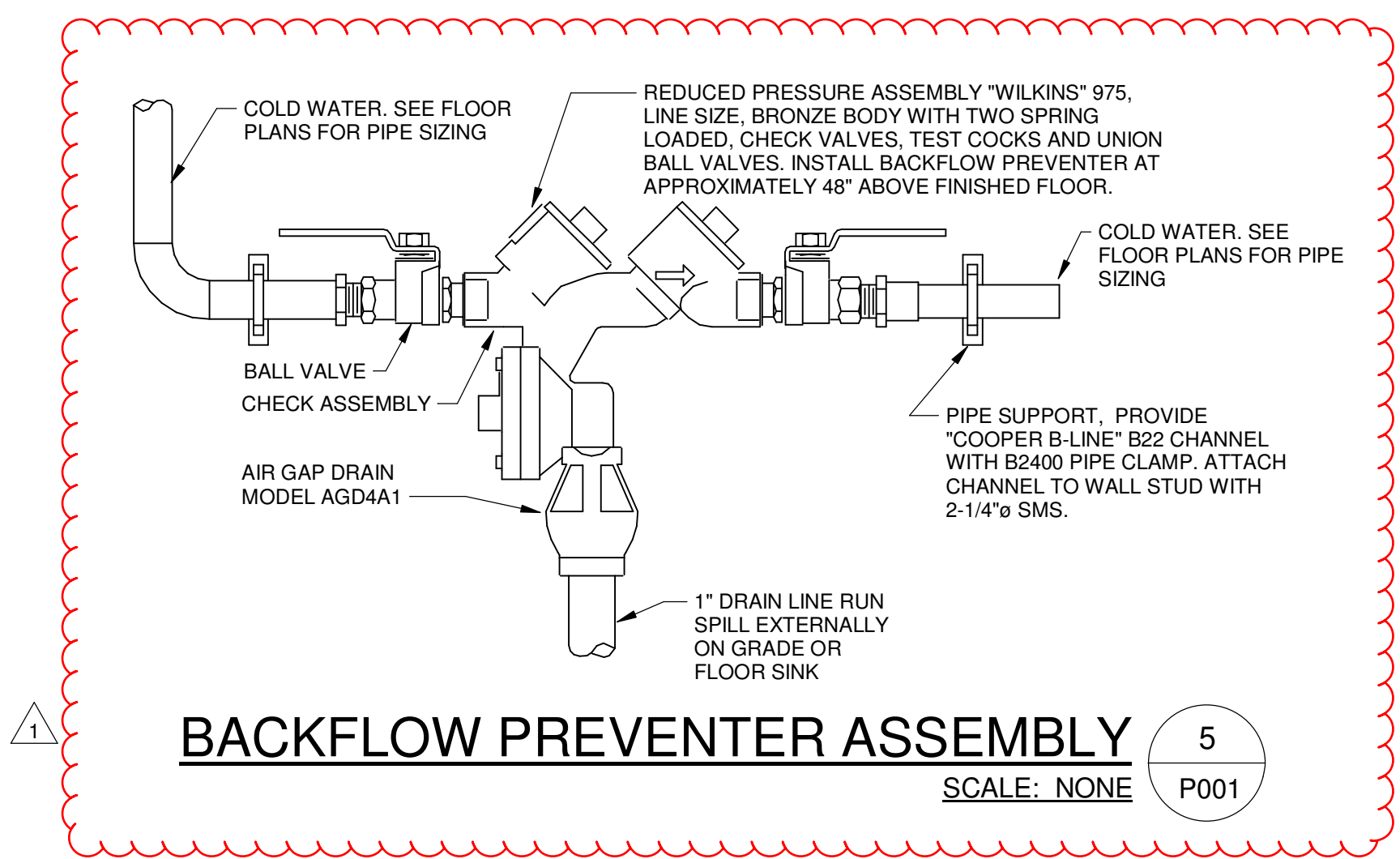
CLEANOUT TO FLOOR 2
SCALE: NONE P001



VENT THRU ROOF 3
SCALE: NONE P001



2-WAY CLEANOUT AT GRADE 4
SCALE: NONE P001



BACKFLOW PREVENTER ASSEMBLY 5
SCALE: NONE P001

GENERAL NOTES

1. ALL WORK SHALL COMPLY WITH ALL APPLICABLE CODES, SPECIFICATIONS, LOCAL ORDINANCES, AND INDUSTRY STANDARDS.
2. ALL PIPING SHALL NOT OBSTRUCT ACCESS OR REMOVAL OF MECHANICAL EQUIPMENT.
3. ALL WATER PIPING IN EXTERIOR WALLS SHALL BE INSULATED AND INSTALLED INSIDE THE BUILDING INSULATION.
4. ALL EQUIPMENT, PIPING, DUCTWORK, ETC., SHALL BE SUPPORTED AS REQUIRED TO PROVIDE A VIBRATION FREE INSTALLATION.
5. SEE ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS AND MOUNTING HEIGHTS OF PLUMBING FIXTURES TO MEET ADA REQUIREMENTS.
6. ADA WATER CLOSETS SHALL HAVE WATER ROUGH-IN LOCATED TO PROVIDE FLUSH VALVE HANDLE FACING WIDE SIDE OF ENCLOSURE.
7. ALL SEWER AND WASTE SHALL BE SLOPED AT 1/4" = 1'-0".
8. COORDINATE THE ROUTING OF DUCTWORK WITH PLUMBING AND ELECTRICAL SECTIONS PRIOR TO BEGINNING WORK.
9. ALL ROOF PENETRATIONS SHALL BE FLASHED AND COUNTER FLASHED WATER TIGHT.
10. ALL MATERIALS TO BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S WRITTEN INSTRUCTIONS.
11. PROVIDE ALL PLUMBING FIXTURES AND EQUIPMENT WITH ACCESSIBLE STOPS.
12. COORDINATE CLEANOUT LOCATIONS WITH ALL TRADES. PROVIDE SIZES AND TYPE TO SUIT FLOORING AS SPECIFIED.
13. BALANCED VALVES IN DOMESTIC HOT WATER RECIRCULATING PIPING SHALL BE AUTOMATIC PRESSURE COMPENSATING TYPE.

PLUMBING FIXTURE SCHEDULE

WC-1	WATER CLOSET "AMERICAN STANDARD" MODEL 3517A 101 FLOOR MOUNTED RIGHT HEIGHT FLUSH TANK VITREOUS CHINA TOILET WITH ELONGATED BOWL. FURNISH WITH CERAMIC 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.
SH-1	SHOWER AQUATIC MODEL 13638FS ADA COMPLIANT GELCOAT SHOWER WITH 1-3/4" SKIRT HEIGHT AND 1/2" INTERIOR THRESHOLD. FULLY EQUIPPED FOR ADA. FURNISHED WITH L-SHAPED GRAB BAR, L-SHAPED FOLD-UP SEAT, PRESSURE BALANCING MIXING VALVE, AND HAND HELD SHOWER ASSEMBLY PER ADA GUIDELINES. FURNISH WITH CURTAIN ROD.
FD-1	FLOOR DRAIN ZURN MODEL #Z-415 WITH TYPE "B" NICKEL BRONZE STRAINER AND BOTTOM OUTLET. FURNISH WITH CAST TRAP. SIZE AS SHOWN ON DRAWINGS.
FD-2	FLOOR DRAIN ZURN MODEL #Z-415 WITH TYPE "E" NICKEL BRONZE STRAINER AND BOTTOM OUTLET. FURNISH WITH CAST TRAP. SIZE AS SHOWN ON DRAWINGS.
TG-1	TRAP GUARD ZURN MODEL #Z1072-4 ZSHIELD BARRIER TRAP SEAL DEVICE, IAPMO AND ASSE LISTED. SEE DRAWINGS FOR SIZES
CP-1	CIRCULATION PUMP GRUNDFOS MODEL UP15-18-B5, 0.25 GPM AT 10 FEET. 85 WATTS AT 120 V/1PH WITH AQUASTAT.

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"	2"	1/2"	1/2"	1/2"	1/2"
SHOWER	SH	-	-	-	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 EQUIPMENT SCHEDULE

DWH 1	DOMESTIC WATER HEATER BRADFORD WHITE MODEL #BW20-L "LOWBOY" 19 GALLON ELECTRIC WATER HEATER, 120V, 2000W
-------	---

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
ABC	ABOVE CEILING
UF	UNDER FLOOR
COTF	CLEANOUT TO FLOOR
COTG	CLEANOUT TO GRADE
CO, WCO, FCO	CLEANOUT, WALL CLEANOUT, FLOOR CLEANOUT
CW (D)(R)	COLD WATER (DROP) (RISER)
HW (D)(R)	HOT WATER (DROP) (RISER)
W, WD	WASTE, WASTE DROP
FA, TB	FROM ABOVE, TO BELOW
FB, TA	FROM BELOW, TO ABOVE
IE	INVERT ELEVATION
V, VR, VTR	VENT, VENT RISER, VENT THRU ROOF
HB	HOSE BIB
Ø	DIAMETER
TYP.	TYPICAL
REF.	REFERENCE
FD	FLOOR DRAIN
DEM	DEMAND
FU	FIXTURE UNITS
GPM	GALLONS PER MINUTE
R.I.O.	ROUGH IN ONLY
UNO	UNLESS NOTED OTHERWISE
N.C.	NORMALLY CLOSED
O.C.	ON CENTER
AFF	ABOVE FINISH FLOOR
AFG	ABOVE FINISHED GRADE
ROOMNAME	ROOM NAME AND NUMBER
--	
LF	LINEAR FEET
ABV	ABOVE
DN	DOWN

DRAWING SHEET INDEX

P001	PLUMBING LEGENDS, SCHEDULES, AND NOTES
P002	PLUMBING SPECIFICATIONS
P003	PLUMBING SITE PLAN
P101	PLUMBING FLOOR PLANS

BIM 3607/2101 Sparks Public Works Bullpen/2021-002 Sparks Crew Building Restroom Renovation.rvt

1/21/2022, 5:00:38 PM



Date	Revision
1 1/31/22	Plan Review #1

AINSWORTH ASSOCIATES
MECHANICAL ENGINEERS
1420 HOLCOMB AVE., SUITE 201 4557 GREENVIEW DR.
RENO, NV 89502 EL DORADO HILLS, CA 95762
TEL: 775-329-9100 TEL: 916-737-6014
www.aa-me.com

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

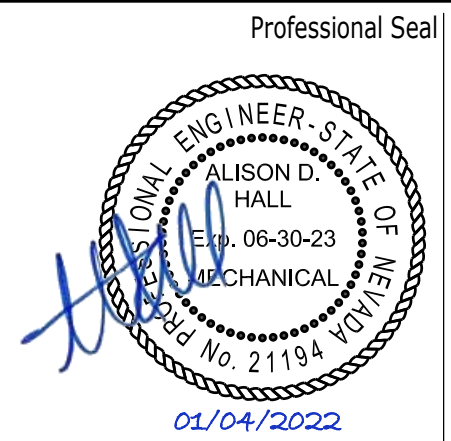
**Sparks Public Works Bullpen
Toilet Room Renovation**
215 S 21st St.
Sparks, NV 89431

PLUMBING LEGENDS,
SCHEDULES, AND
NOTES
May 28, 2021
H+K Project No: 2101
P001

- GENERAL:**
- A. GENERAL CONDITIONS:**
- 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:**
- 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:**
- 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.
 - 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:**
- COMPLY WITH APPLICABLE PORTIONS OF THE SHEET METAL AND AIR CONDITIONING CONTRACTOR'S NATIONAL ASSOCIATION (SMACNA) GUIDELINES FOR ALL WORK IN THIS SECTION.
 - COMPLY WITH AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS (ASHRAE) RECOMMENDATIONS, LATEST EDITION, FOR ALL WORK IN THIS SECTION.
 - COMPLY WITH ANSIN/FPA 90A, STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS; AND ANSE/NFPA 90B, STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR CONDITIONING SYSTEMS FOR ALL WORK IN THIS SECTION.
- E. DRAWINGS AND COORDINATION:**
- 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:**
- ARRANGE FOR REQUIRED INSPECTIONS AND PERMITS REQUIRED FOR INSTALLATION OF THE WORK.
 - COSTS FOR PERMITS REQUIRED WILL BE PAID BY THE OWNER.
- G. MATERIALS:**
- 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.
 - THE GRADE OR QUALITY OF MATERIALS DESIRED IS INDICATED BY THE TRADE NAMES OR CATALOG NUMBERS STATED HEREIN.
 - DIMENSIONS, SIZES, AND CAPACITIES SHOWN ARE A MINIMUM AND SHALL NOT BE CHANGED WITHOUT THE PERMISSION OF THE ARCHITECT/ENGINEER.
 - NO MATERIAL INSTALLED AS PART OF THIS WORK SHALL CONTAIN ASBESTOS IN ANY FORM.
- H. MATERIAL LIST AND SUBSTITUTIONS:**
- 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:**
- THE PLACEMENT OF EQUIPMENT AND PLUMBING WORK IN THE LOCATIONS AND SPACES SHOWN ON THE DRAWINGS IS THE CONTRACTOR'S RESPONSIBILITY.
 - MOVE EQUIPMENT AND/OR WORK INTO SPACES THROUGH OPENINGS PROVIDED OR LOCATED IN THE SPACES DURING CONSTRUCTION, AS REQUIRED.
- K. GUARANTEE:**
- 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.
 - REPAIRS OR REPLACEMENT OF DEFECTIVE WORK SHALL BE PROMPTLY COMPLETED UPON NOTIFICATION BY THE OWNER.
- L. CARE AND CLEANING:**
- 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.
 - CLEAN OUT AND REMOVE SURPLUS MATERIALS AND DEBRIS RESULTING FROM THE WORK.
- M. DRAWINGS AND COORDINATION:**
- 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.
 - 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:**
- 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.
 - 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:**
- FURNISH COMPLETE OPERATING AND MAINTENANCE INSTRUCTIONS, DESCRIPTIVE LITERATURE, CATALOG CUTS, AND DIAGRAMS COVERING ALL ITEMS OF OPERATION AND MAINTENANCE FOR EACH PIECE OF EQUIPMENT FURNISHED UNDER THESE SPECIFICATIONS. INCLUDE IN EACH SET A COPY OF THE TEST AND BALANCE REPORT SPECIFIED HEREIN.

- PLUMBING**
- A. PIPING**
- WASTE AND VENT PIPING SHALL BE STANDARD WEIGHT CAST IRON WITH NO-HUB STAINLESS STEEL BANDS AND NEOPRENE COLLARS CONFORMING TO CISPI 301 AND 310.
 - WATER PIPING INSIDE THE BUILDING SHALL BE TYPE L' HARD DRAWN COPPER TUBING WITH WROUGHT COPPER FITTINGS. SOLDER SHALL BE 95.5 TIN-ANTIMONY.
- B. VALVES**
- BALL VALVES: THREE PIECE, FULL PORT, BRONZE BODY, BLOW-OUT PROOF STEM, SCREWED OR SOLDERED JOINT, LEAD-FREE.
- C. CLEANOUTS**
- 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.
 - 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 2-8550-S OR W-89470-R, AND SMITH 4402 OR 4477.
 - INTERIOR CLEANOUTS IN FINISHED FLOORS SHALL BE ADJUSTABLE TO FLOOR LEVEL AFTER THE SLAB HAS BEEN POURED AND SET WITH A SQUARE SCORRIATED TOP OF NICKEL BRONZE, VANDAL-PROOF SCREWS, CAST BRASS CLEANOUT PLUG. APPROVED TYPES ARE ZURN 1400, WADE W-7000, AND SMITH 4020.
- D. TESTING**
- TEST PIPING AT COMPLETION OF ROUGH-IN, IN ACCORDANCE WITH THE FOLLOWING SCHEDULE:

UTILITY	PRESSURE	TEST MEDIUM	DURATION
WASTE & VENT	HIGHEST VENT	WATER	8 HOURS
WATER	125 PSI	WATER	8 HOURS
- E. PIPE INSULATION**
- 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.
 - PIPE INSULATION SHALL COMPLY WITH THE REQUIREMENTS LISTED IN 2018 INTERNATIONAL ENERGY CONSERVATION CODE TABLE C403.11.3.
 - INSULATION SHALL BE APPLIED TO CLEAN, DRY SURFACES ONLY, AND AFTER TESTING TO ENSURE TIGHTNESS.
 - INSULATE HOT WATER WITH FIBERGLASS INSULATION, JOHNS MANVILLE MICROLOK HP, OR APPROVED EQUAL, FINISHED WITH FACTORY APPLIED FIRE RETARDANT VAPOR BARRIER JACKET STAPLED IN PLACE PER MANUFACTURER'S RECOMMENDATIONS. INSULATION ON PIPES 1" AND SMALLER SHALL BE 1" THICK, AND INSULATION ON PIPES 1-1/4" AND LARGER SHALL BE 1-1/2" THICK. FITTINGS SHALL BE INSULATED WITH FIBERGLASS INSULATION AND ZESTON PRE-MOLDED INSULATED COVERINGS SECURED WITH STANDARD FASTENERS. INSTALL A SEGMENT OF RIGID INSULATION AT EACH PIPE HANGER.
- F. INSTALLATION OF PIPING**
- UNIONS ARE TO BE PROVIDED WHERE NECESSARY FOR PROPER SERVICING OF VALVES, PIPING, AND EQUIPMENT.
 - DIELECTRIC PIPE UNIONS SHALL BE UTILIZED AT CONNECTIONS BETWEEN DISSIMILAR METAL PIPING.
 - PIPING SUBJECT TO EXPANSION AND/OR CONTRACTION SHALL BE ANCHORED IN A MANNER PERMITTING THE STRAINS TO BE EVENLY DISTRIBUTED, AND ALLEVIATED USING SWING JOINTS OR EXPANSION LOOPS.
 - 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.
 - 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**
- 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 THE 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



AINSWORTH ASSOCIATES
 MECHANICAL ENGINEERS
 1420 HOLCOMB AVE., SUITE 201 RENO, NV 89502
 TEL: 775-329-9100

4557 GREENVIEW DR. EL DORADO HILLS, CA 95762
 TEL: 916-737-6014

www.aa-me.com

JOB: 2021-002

© Copyright H + K Architects

H+K ARCHITECTS

5485 Reno Corporate Drive, Suite 100
 Reno, Nevada 89511-2262

P 775-332-6640
 F 775-332-6642

hkarchitects.com

Sparks Public Works Bullpen Toilet Room Renovation

215 S 21st St.
 Sparks, NV 89431

PLUMBING SPECIFICATIONS

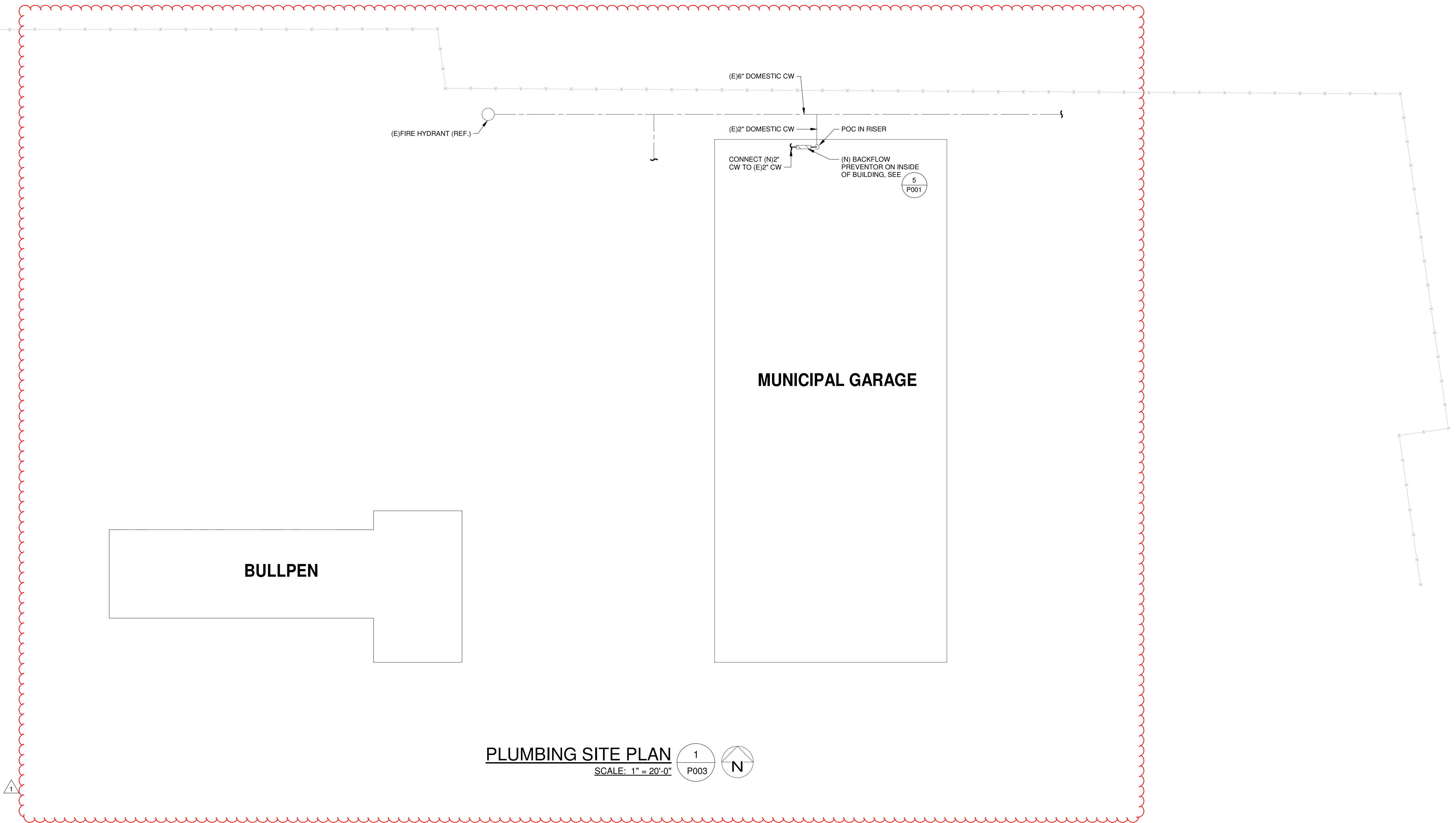
May 28, 2021
 H+K Project No: 2101

P002



BM 3607/2101 Sparks Public Works Bullpen/2021-002 Sparks Crew Building Restroom Renovation.rvt

1/21/2022 5:00:38 PM



PLUMBING SITE PLAN
 SCALE: 1" = 20'-0" 1 P003 N

Professional Seal

ALISON D. HALL
 06-30-23
 MECHANICAL
 No. 21194
 01/31/2022

Date	Revision
1 1/31/22	Plan Review #1

© Copyright H + K Architects

Consultant

AINSWORTH ASSOCIATES
 MECHANICAL ENGINEERS
 1420 HOLGOMB AVE., SUITE 201 RENO, NV 89502
 TEL: 775-329-9100
 www.aa-me.com

4557 GREENVIEW DR. EL DORADO HILLS, CA 95762
 TEL: 916-737-6014

JOB: 2021-002

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

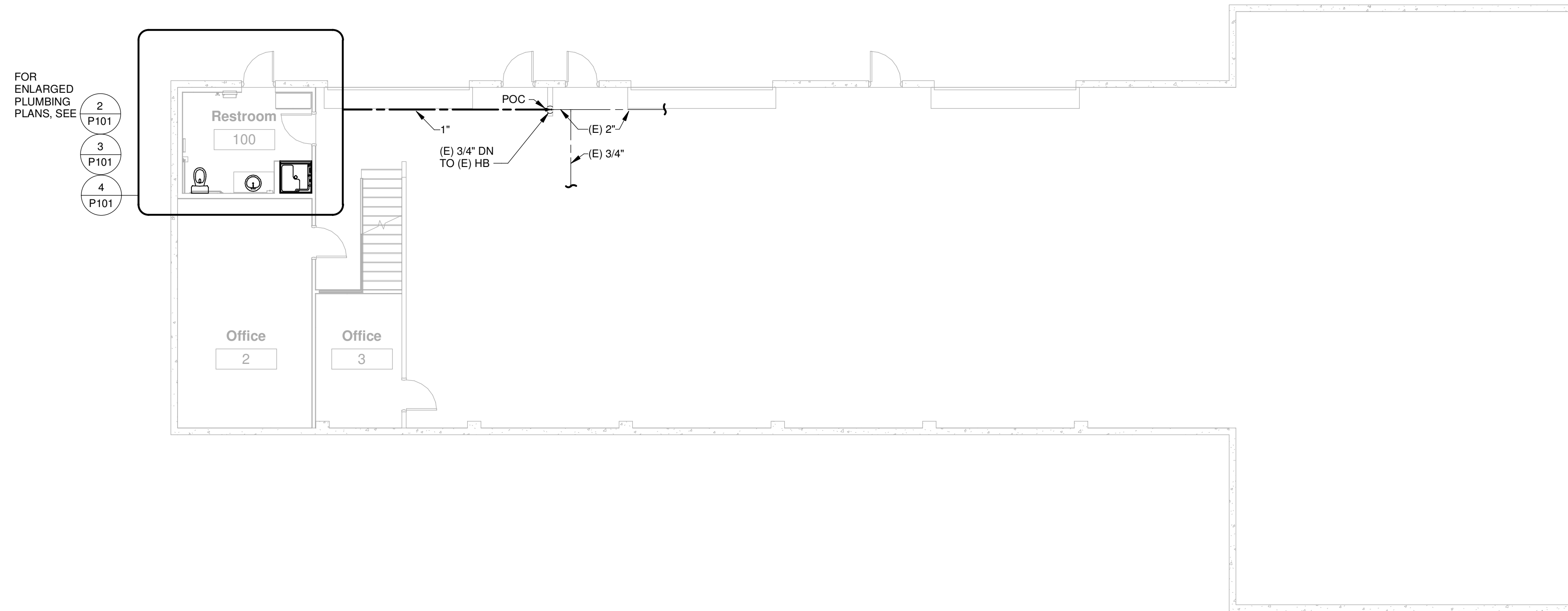
**Sparks Public Works Bullpen
 Toilet Room Renovation**

215 S 21st St.
 Sparks, NV 89431

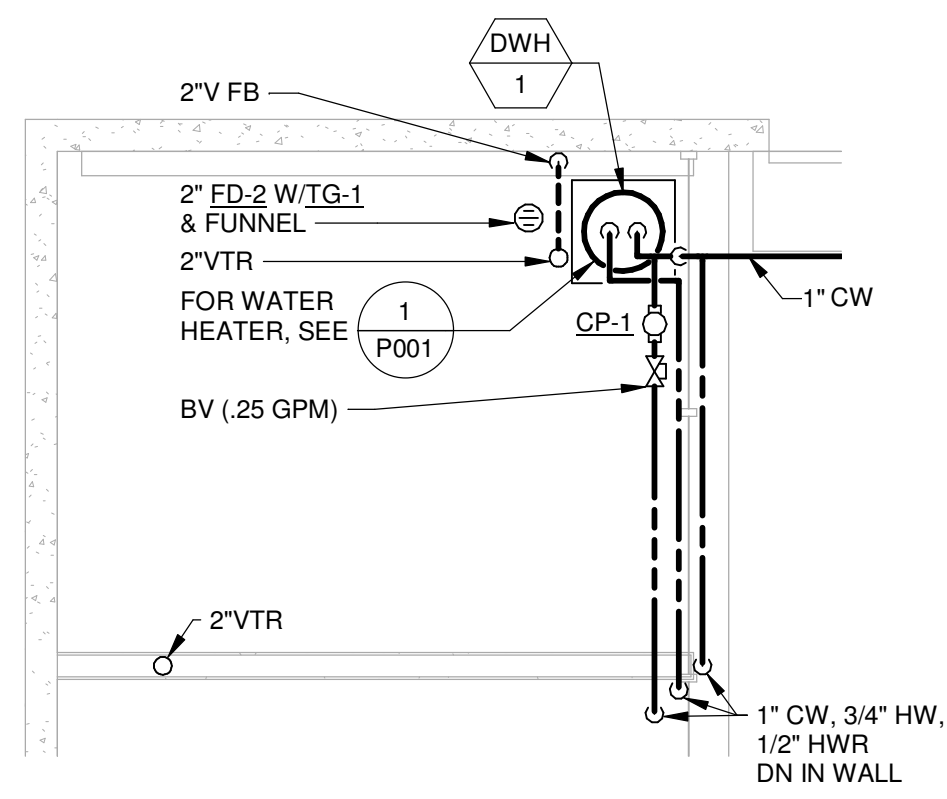
PLUMBING SITE PLAN

May 28, 2021
 H+K Project No: 2101

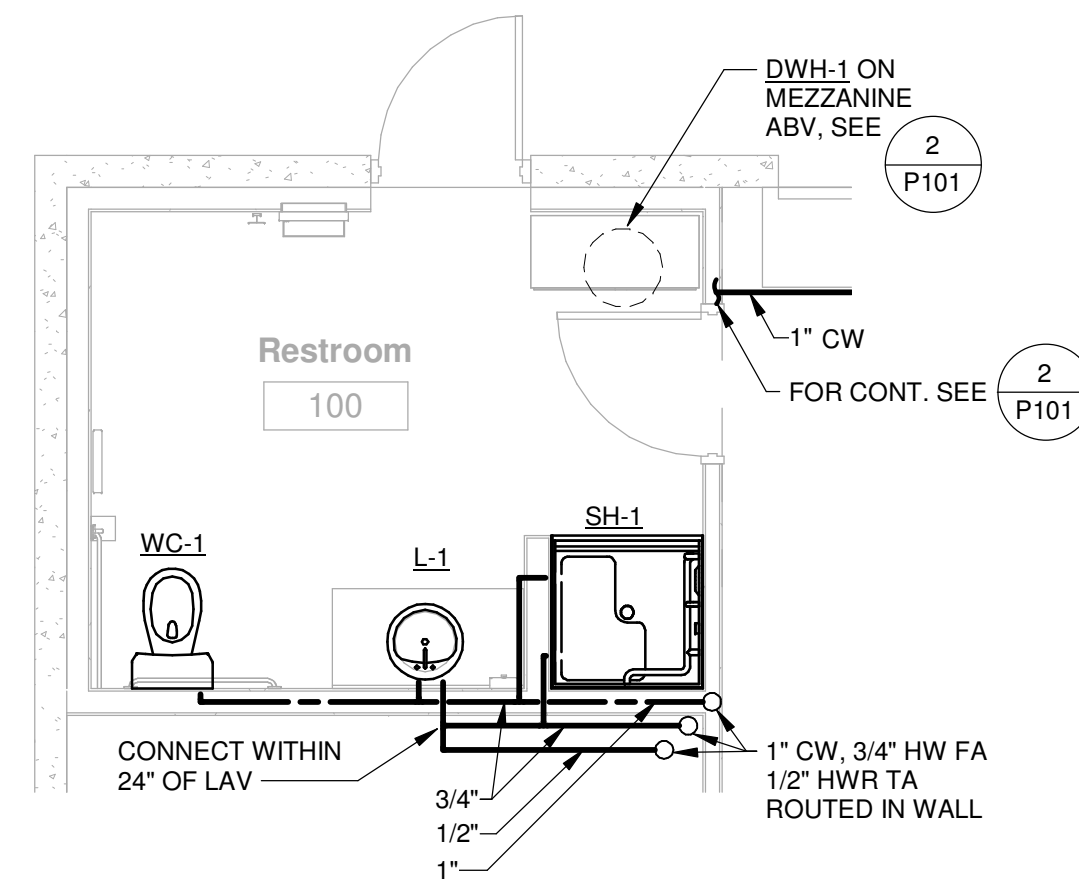
P003



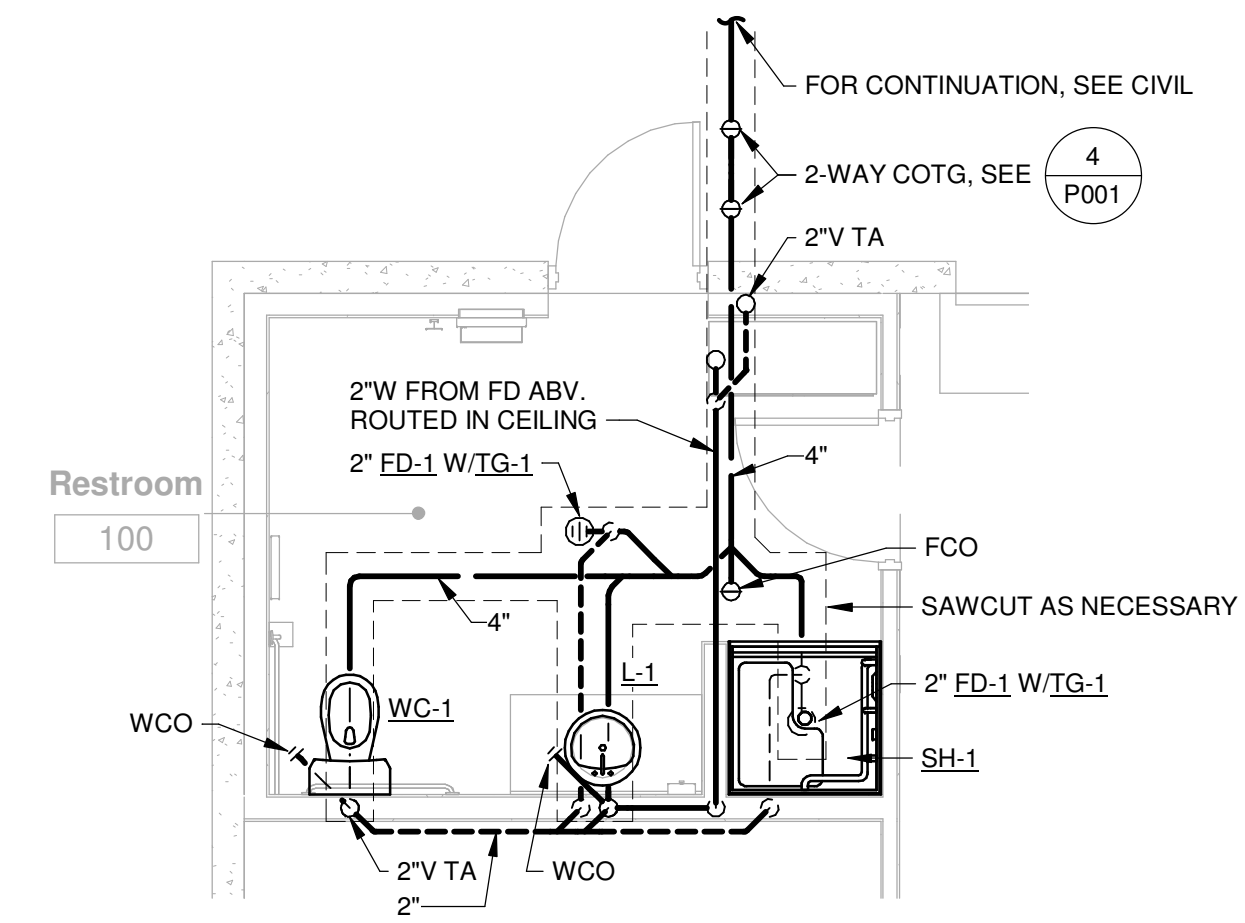
PLUMBING OVERALL PLAN 1
 SCALE: 1/8" = 1'-0" P101 N



PLUMBING NEW MEZZANINE PLAN 2
 SCALE: 1/4" = 1'-0" P101 N



PLUMBING ENLARGED PLAN - DOMESTIC WATER 3
 SCALE: 1/4" = 1'-0" P101 N



PLUMBING ENLARGED PLAN - WASTE/VENT 4
 SCALE: 1/4" = 1'-0" P101 N

BIM 360/2101 Sparks Public Works Bullpen/2021-002 Sparks Crew Building Restroom Renovation.rvt

1/4/2022 1:37:34 PM



Professional Seal	Date	Revision



AINSWORTH ASSOCIATES
 MECHANICAL ENGINEERS
 1420 HOLGOMB AVE., SUITE 201 RENO, NV 89502
 TEL: 775-329-9100
 4557 GREENVIEW DR. EL DORADO HILLS, CA 95762
 TEL: 916-737-6014
 www.aa-me.com

JOB: 2021-002

Consultant

H+K ARCHITECTS

5485 Reno Corporate Drive, Suite 100
 Reno, Nevada 89511-2262

P 775+332+6640
 F 775+332+6642

hkarchitects.com

**Sparks Public Works Bullpen
 Toilet Room Renovation**

215 S 21st St.
 Sparks, NV 89431

PLUMBING FLOOR
 PLANS


May 28, 2021
 H+K Project No: 2101

P101



© Copyright H + K Architects

LIGHTING FIXTURE SCHEDULE	
<p>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.</p> <p>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/OWNER SHALL NOTIFY THE ENGINEER IMMEDIATELY IF FINISHES DO NOT FALL IN LINE WITH THE REFLECTANCES MENTIONED ABOVE.</p>	
<p>SUBSTITUTION: DEFINITIONS</p> <p>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.</p> <p>NO EQUAL = PROVIDE SPECIFIED FIXTURE. SUBSTITUTIONS ARE NOT ALLOWED.</p> <p>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.</p>	
L1	<p>2' LED WALL MOUNT VANITY, PERFORATED VERTICAL FASCIA WITH ACRYLIC LENSED DIFFUSER, TOP AND BOTTOM FROSTED ACRYLIC DIFFUSERS, WHITE FINISH, DIMMING DRIVER TO BE WIRED FOR NON-DIMMING CONTROL.</p> <p>SOURCE: LED, 1711 LUMENS, 4000K VOLTAGE: 120 V MANUFACTURER: FINELITE #S174-LED-VCF-PF-2-B-840-120-SC SUBSTITUTIONS: ○ OR EQUAL ● SUBJECT TO REVIEW ○ NO EQUAL</p>
10 VA	<p>4" ROUND LED DOWNLIGHT OPEN MATTE WHITE REFLECTOR, WHITE FLANGE, CONNECT TO ITS OWN 0-10V DIMMER.</p> <p>SOURCE: LED, 1237 LUMENS, 4000K VOLTAGE: 120 V MANUFACTURER: LIGHTOLIER #4-R-N-ZARDL-10-840-W-O-WH-Z10-U SUBSTITUTIONS: ○ OR EQUAL ● SUBJECT TO REVIEW ○ NO EQUAL</p>
11 VA	<p>1x4' LED EDGE-LIT FLAT PANEL, RECESSED WITH DRYWALL FRAME-IN KIT, WHITE FINISH, 0-10V DIMMING DRIVER.</p> <p>SOURCE: LED, 4029 LUMENS, 4000K VOLTAGE: 120 V MANUFACTURER: H.E. WILLIAMS #LP-14-L40/840-DFK-1248W-DIM-UNV SUBSTITUTIONS: ○ OR EQUAL ● SUBJECT TO REVIEW ○ NO EQUAL</p>
40 VA	<p>SAME AS L3 EXCEPT WITH 10 WATT EMERGENCY BATTERY PACK.</p>
L3X	<p>SOURCE: LED, 4029 LUMENS, 4000K VOLTAGE: 120 V MANUFACTURER: H.E. WILLIAMS #LP-14-L40/840-DFK-1248W-EM/10WRM-DIM-UNV SUBSTITUTIONS: ○ OR EQUAL ● SUBJECT TO REVIEW ○ NO EQUAL</p>
40 VA	



COMcheck Software Version 4.1.4.0

Interior Lighting Compliance Certificate

Project Information

Energy Code: 2018 IECC
Project Title: Sparkes Maintenance Yard Restroom Renovation Addition, E21, LV1
Project Type: New Construction

Construction Site: _____ Owner/Agent: _____ Designer/Contractor: _____

Additional Efficiency Package(s)
Enhanced Interior Lighting Controls

Allowed Interior Lighting Power

Area Category	Floor Area (ft ²)	Allowed Watts / ft ²	Allowed Watts (B X C)
1-Admin Office (Office)	476	0.79	376
		Total Allowed Watts =	376

Proposed Interior Lighting Power

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps / Fixture	C # of Fixtures	D Fixture Watt.	E (C X D)
1-Admin Office (Office)				
LED 1: L1: S17: Other	1	1	10	10
LED 2: L2: ZARDL: Other	1	1	11	11
LED 3: L3L3X: LP LED: Other	1	5	40	200
				Total Proposed Watts = 221

Interior Lighting PASSES: Design 41% 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.

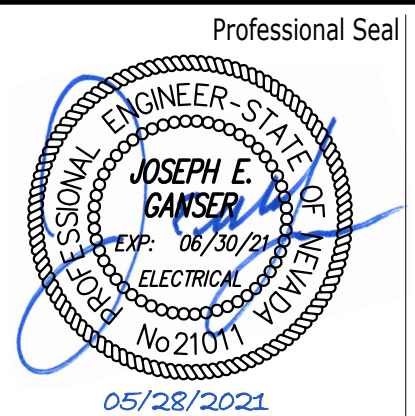
ELECTRICAL LEGEND			
<ul style="list-style-type: none"> PANELBOARD: SURFACE MOUNTED PANELBOARD: FLUSH MOUNTED SWITCHBOARD OR DISTRIBUTION PANEL TRANSFORMER PULLBOX / VAULT MOTOR STARTER COMBINATION MOTOR STARTER COMBINATION MOTOR STARTER PROVIDED BY OTHERS DISCONNECT SWITCH - FUSIBLE (FUSED PER EQUIP. NAMEPLATE) DISCONNECT SWITCH - NON-FUSIBLE DISCONNECT SWITCH PROVIDED BY OTHERS VARIABLE FREQUENCY DRIVE VARIABLE FREQUENCY DRIVE PROVIDED BY OTHERS ENCLOSED CIRCUIT BREAKER GROUND ROD SHUNT TRIP STATION OR EMERGENCY PUSHBUTTON REMOTE METER 	<ul style="list-style-type: none"> SINGLE RECEPTACLE: 20A, 125V, NEMA 5-20, +18" AFF (UNO) DUPLEX RECEPTACLE: 20A, 125V, NEMA 5-20, +18" AFF (UNO) DUPLEX RECEPTACLE: HALF SWITCHED DUPLEX RECEPTACLE: FLOOR MOUNTED QUAD RECEPTACLE: 20A, 125V, NEMA 5-20, +18" AFF (UNO) QUAD RECEPTACLE: FLOOR MOUNTED ISOLATED GROUND TYPE RECEPTACLE (ORANGE TRIANGLE) - 20A, 125V, NEMA 5-20G, +18" AFF (UNO) DUPLEX RECEPTACLE GFI TYPE - 20A, 125V, NEMA 5-20 GFI +18" AFF (UNO) DUPLEX RECEPTACLE: ABOVE COUNTER (VERIFY HEIGHT) SPECIAL PURPOSE RECEPT.: SEE DWGS FOR NEMA CONFIG. DUPLEX RECEPTACLE: CEILING MOUNTED MULTI-OUTLET ASSEMBLY: SPACING PER DWGS DATA / VOICE OUTLET: 18" AFF (UNO) - 1 VOICE, 1 DATA JACK, 2 BLANKS DATA / VOICE OUTLET: FLOOR MOUNTED DATA / VOICE OUTLET: ABOVE COUNTER (VERIFY HEIGHT) MULTI-OUTLET ASSEMBLY: SPACING PER DWGS TELEPHONE OUTLET: 18" AFF (UNO) DATA OUTLET: 18" AFF (UNO) SPEAKER TELEVISION OUTLET: 18" AFF (UNO) TELEPHONE TERMINAL BOARD (TTB) VOLUME CONTROL GROUNDING BAR 	<ul style="list-style-type: none"> GROUND FAULT INTERRUPTER DEVICE METERING DEVICE REMOTE METER SHUNT TRIP DEVICE TRANSFORMER CURRENT TRANSFORMER GENERATOR MOTOR - # INDICATES HP INTERRUPTER SWITCH GROUND FAULT RELAY W/ CT OR SENSOR FUSE CIRCUIT BREAKER DRAWOUT CIRCUIT BREAKER TRANSFER SWITCH (A=AUTOMATIC, M=MANUAL, # FOR POLES 2, 3 OR 4 SURGE PROTECTION DEVICE) NORMALLY OPEN (NO) CONTACT NORMALLY CLOSED (NC) CONTACT COIL - VOLTAGE PER CONTROL DIAGRAMS PILOT LIGHT (LED) PUSH-TO-TEST. LETTER INDICATES COLOR (R=RED, G=GREEN, A=AMBER, Y=YELLOW) PILOT LIGHT (LED) NON PUSH-TO-TEST THERMAL OVERLOAD MAGNETIC OVERLOAD PUSH BUTTON NORMALLY OPEN (NO) PUSH BUTTON NORMALLY CLOSED (NC) HAND-OFF-AUTO (HOA) SELECTOR SWITCH LIMIT SWITCH NORMALLY OPEN (NO) LIMIT SWITCH NORMALLY CLOSED (NC) PUSH BUTTON ILLUMINATED (LED) TICS = NO. OF #12 WIRES (UNO) IF MORE THAN TWO WITHIN RACEWAY. GROUNDING CONDUCTOR (NOT ALWAYS INDICATED) BRANCH CIRCUIT (WHEN TIC MARKS ARE NOT SHOWN) = (1) PHASE, (1) NEUTRAL AND (1) GROUNDING CONDUCTOR HOMERUN TO PANELBOARD OR DEVICE HOMERUN CIRCUIT DESIGNATION *(E) INDICATES EXISTING PANEL, NOT EXISTING HOMERUN GROUNDING CONDUCTOR - NEUTRAL CONDUCTOR (N=1, 2N=2 NEUTRALS, 3N=3 NEUTRALS) PHASE CONDUCTOR(S) PANELBOARD DESIGNATION HOMERUN CIRCUIT DESIGNATION (3 PHASE CIRCUIT SHOWN) *(E) INDICATES EXISTING PANEL, NOT EXISTING HOMERUN 	<ul style="list-style-type: none"> AMPS AMERICANS WITH DISABILITIES ACT ABOVE FINISHED CEILING ARC-FAULT CIRCUIT INTERRUPTER ABOVE FINISHED FLOOR ABOVE FINISHED GRADE AUTHORITY HAVING JURISDICTION AIRC INTERRUPTING CAPACITY ALUMINUM AUTOMATIC TRANSFER SWITCH AMERICAN WIRE GAUGE BARE COPPER BREAKER CONDUIT/RACEWAY CALIFORNIA ENERGY COMMISSION CIRCUIT CEILING CONDUIT/RACEWAY ONLY CURRENT TRANSFORMER COPPER DISTRIBUTION BOARD DIRECT DIGITAL CONTROLLER DOUBLE-POLE, DOUBLE-THROW DOUBLE-POLE, SINGLE-THROW DRAWING EXISTING TO REMAIN ELECTRICAL EMERGENCY ELECTRICAL METALLIC TUBING FUTURE FULL LOAD AMPS FLEXIBLE METAL CONDUIT (STEEL) FUSE PER EQUIP. NAMEPLATE GROUND FAULT INTERRUPT GROUND FAULT RELAY GROUND HIGH INTENSITY DISCHARGE HAND-OFF-AUTO SWITCH HORSEPOWER HOUSEKEEPING INTERMEDIATE METAL CONDUIT JUNCTION BOX kcmil (300K = 300 kcmil) KILOVOLT AMPS KILOWATT LIGHTING ISOLATED GROUND MAIN CIRCUIT BREAKER THOUSAND CIRCULAR MILS MANUFACTURER MAIN LUGS ONLY MOTOR STARTER MAIN SWITCHBOARD MANUAL TRANSFER SWITCH NORMALLY CLOSED NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NOT IN CONTRACT NIGHTLIGHT NORMALLY OPEN NOT TO SCALE NEUTRAL ENERGY PHASE PHOTOVOLTAIC PANEL PV USA TEST CONDITIONS POWER RELOCATED RIGID ALUMINUM CONDUIT RIGID FIBERGLASS CONDUIT RIGID STEEL CONDUIT SERVICE ENTRANCE SURGE PROTECTION DEVICE SINGLE-POLE, DOUBLE-THROW SINGLE-POLE, SINGLE-THROW STANDARD TEST CONDITIONS SWITCH TELECOM TELEPHONE TERMINATION BOARD TYPICAL UNDERWRITER'S LABORATORY UNLESS NOTED OTHERWISE UNSWITCHED UNINTERRUPTED POWER SUPPLY VOLTS VOLT AMPS VARIABLE FREQUENCY DRIVE WATTS WEATHER PROOF EXISTING TO BE REMOVED XFMR OR XF - TRANSFORMER
<ul style="list-style-type: none"> SINGLE POLE SWITCH 48" AFF (UNO) THREE WAY SWITCH 48" AFF (UNO) FOUR WAY SWITCH 48" AFF (UNO) KEY OPERATED SWITCH 48" AFF (UNO) SWITCH WITH LIGHTED HANDLE MANUAL MOTOR STARTER SWITCH WITH PILOT LIGHT 48" AFF (UNO) TIME WALL SWITCH 48" AFF (UNO) DIMMER OPERATED SWITCH 48" AFF (UNO) OCCUPANCY SENSOR - WALL MOUNTED 48" AFF (UNO) 0-10V DIMMING OCCUPANCY SENSOR - WALL MOUNTED 48" AFF (UNO) EQUAL TO SENSOR SWITCH WSX-D OCCUPANCY SENSOR - CEILING MOUNTED. ARROWS INDICATE COVERAGE, DIRECTION & PATTERN. PROVIDE WITH POWER PACK PER MFG REQUIREMENTS. CONTROL STATION CONTACTOR OR RELAY PHOTOELECTRIC CELL (ON ROOF FACING NORTH UNO) TIMECLOCK 	<ul style="list-style-type: none"> LIGHTING FIXTURE - LOWERCASE LETTER DENOTES SWITCHING (a = CENTER LAMP, b = OUTER LAMPS) WALL MOUNTED FIXTURE RECESSED DOWNLIGHT SURFACE LUMINAIRE POLE MOUNTED LIGHT (# OF HEADS INDICATED ON DRAWING) FLUORESCENT STRIP FIXTURE BOLLARD RECESSED DOWNLIGHT (WALL WASH) TRACK LIGHTING EMERGENCY LIGHTING UNIT EXIT SIGN FIXTURE - SHADED AREA DENOTES LIGHTED FACE - ARROWS DENOTE DIRECTION EMERGENCY FIXTURE THERMOSTAT (PROVIDED BY MECH. CONTRACTOR UNO) JUNCTION BOX (SIZE AS REQUIRED UNO) SHEET NOTE DESIGNATION FIXTURE DESIGNATION: F1-TYPE (SEE FIXTURE SCH.) REVISION DELTA: NUMBER REPRESENTS REVISION FEEDER DESIGNATION EQUIPMENT CONNECTION 	<ul style="list-style-type: none"> 20 SINGLE POLE CIRCUIT BREAKER 202 TWO POLE CIRCUIT BREAKER 203 THREE POLE CIRCUIT BREAKER 20A ARC FAULT CIRCUIT BREAKER 20C CONTROLLABLE CIRCUIT BREAKER 20G GFI CIRCUIT BREAKER L = LIGHTING R = RECEPTACLES E = EQUIPMENT M = MOTOR M1 = LARGEST MOTOR K = KITCHEN EQUIP H = ELECTRIC HEAT 	

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% Permit Set 28 May 2021
E001	Electrical Legend, Drawing and Lighting Schedule, and IECC Calculations	●
E002	Electrical Specifications	●
E102	Demolition & New Lighting Plans	●
E201	Demolition & New Power Plans and Panel Schedule	●
TOTAL SHEETS IN ISSUE:		4

BM 3607/2100 Sparks Public Works Bullpen/21007 - Sparks Maintenance Yard Restroom Renovation Addition, E21, LV1

5/28/2021, 1:59:53 PM



Professional Seal Date Revision Consultant



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
pklectrical.com 21007

H+K ARCHITECTS

5485 Reno Corporate Drive, Suite 100
Reno, Nevada 89511-2262

P 775+332+6640
F 775+332+6642

hkarchitects.com

Sparks Public Works Bullpen Toilet Room Renovation

215 S 21st St
Sparks, NV 89431

Electrical Legend,
Drawing and Lighting
Schedule, and IECC
Calculations
May 28, 2021
H+K Project No: 2101



E001

LIGHTING GENERAL NOTES

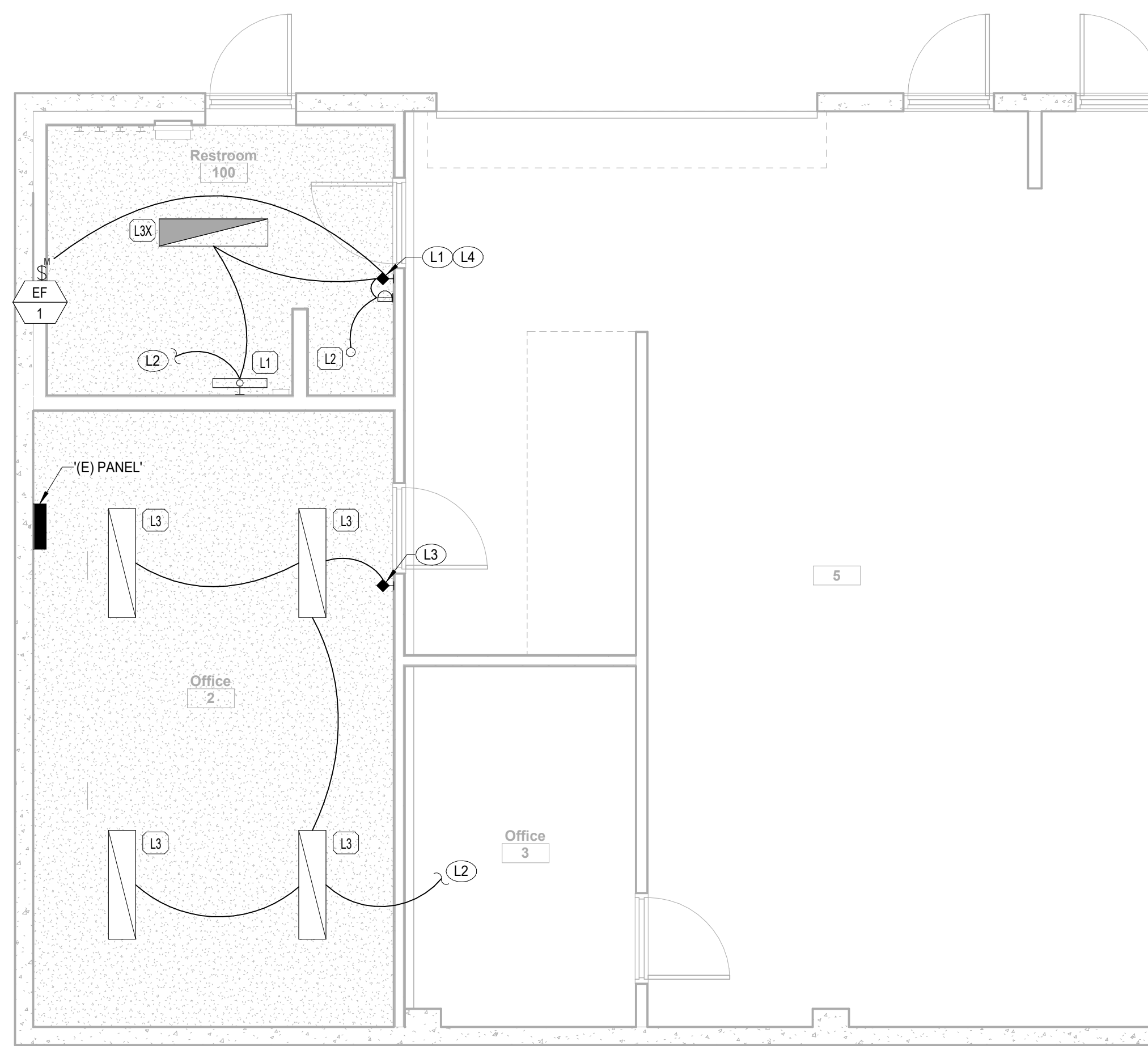
- (E) AND/OR SOLID HALFTONE LINES INDICATE EXISTING EQUIPMENT, (R) AND/OR DASHED LINES INDICATE RELOCATED EQUIPMENT, (N) AND/OR SOLID LINES INDICATE NEW EQUIPMENT UNLESS NOTED OTHERWISE.
- LIGHTING FIXTURES DESIGNATED AS 'EMERGENCY' SHALL BE WIRED TO OPERATE WITH LOCAL SWITCHING UNDER NORMAL POWER CONDITIONS AND SHALL OPERATE VIA EMERGENCY BATTERY PACK OR INVERTER UPON LOSS OF BUILDING UTILITY POWER ONLY, UNLESS NOTED OTHERWISE.
- ELECTRICAL CONDUITS SHALL BE RUN CONCEALED WHERE BUILDING CONSTRUCTION ALLOWS. ANY EXPOSED CONDUIT SHALL BE APPROVED BY THE ARCHITECT PRIOR TO INSTALLATION. ANY EXPOSED CONDUIT, FITTING, SUPPORTS, ETC SHALL BE PAINTED TO MATCH THE SURFACE ON WHICH THEY ARE INSTALLED.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLANS, SECTIONS, ELEVATIONS, ETC. FOR EXACT LOCATION OF LIGHTING FIXTURES.
- CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING FINAL FIXTURE LOCATIONS, ABOVE-CEILING HOUSING CLEARANCES, ETC. WITH MECHANICAL, PLUMBING, SPRINKLER CONTRACTOR AND OTHER TRADES PRIOR TO ROUGH-IN.

SHEET NOTES

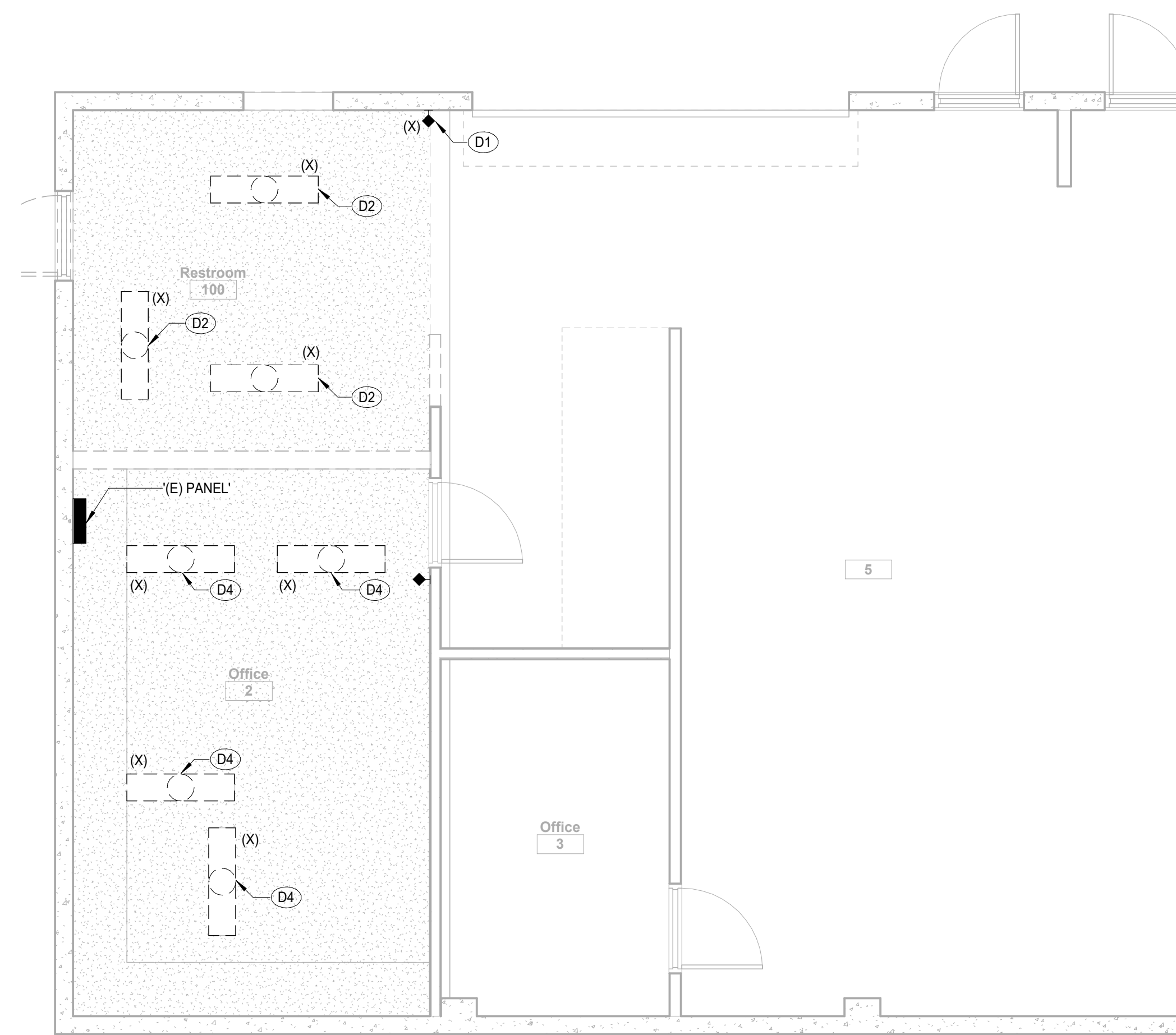
- D1 EXISTING DEVICE SHALL BE DISCONNECTED AND REMOVED. REMOVE ALL CONDUIT AND WIRE BACK TO TERMINATION POINT. REMOVE ALL ABANDONED, EXPOSED CONDUIT AND RACEWAY.
- D2 DEMOLISH LIGHT FIXTURE. REMOVE ALL ABANDONED, EXPOSED CONDUIT AND RACEWAY.
- D4 DEMOLISH LIGHT FIXTURE. MAINTAIN INTEGRITY OF EXISTING CIRCUITING FOR CONNECTION TO NEW FIXTURE. SEE NEW WORK PLAN.
- L1 CONNECT EXHAUST FAN CONTROL TO OCCUPANCY SENSOR.
- L2 CONNECT TO EXISTING CIRCUIT MADE AVAILABLE DURING DEMOLITION.
- L3 CONNECT EXISTING DEVICE TO NEW LIGHTING FIXTURES.
- L4 PROVIDE ULTRASONIC DUAL RELAY WALL SWITCH OCCUPANCY SENSOR. SENSOR SWITCH #UW-200-W OR APPROVED EQUAL.

DEMOLITION GENERAL NOTES

- (X) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT TO BE REMOVED, (E) AND/OR SOLID HALFTONE LINES INDICATE EXISTING EQUIPMENT TO REMAIN UNLESS NOTED OTHERWISE. For Shp
- SALVAGEABLE ITEMS REMOVED DURING DEMOLITION SHALL BE OFFERED TO OWNER PRIOR TO DISPOSAL OR REMOVAL FROM SITE.
- 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.
- 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.
- 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.



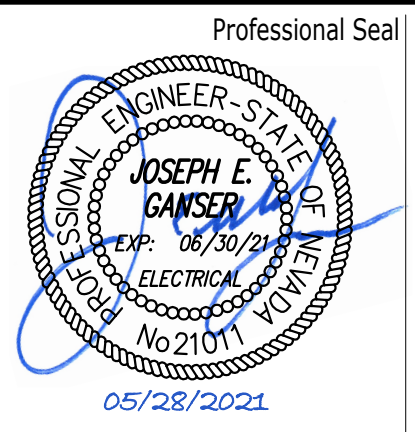
2 ENLARGED RESTROOM NEW LIGHTING PLAN
 Scale: 1/4" = 1'-0"
 E102



1 ENLARGED RESTROOM DEMOLITION LIGHTING PLAN
 Scale: 1/4" = 1'-0"
 E102

BIM 360://2101 Sparks Public Works Bullpen/21007 - Sparks Maintenance Yard Restroom Renovation Addition_E21.rvt

5/28/2021 1:59:56 PM



Professional Seal	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
 pklectrical.com 21007

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

Sparks Public Works Bullpen Toilet Room Renovation
 215 S 21st St
 Sparks, NV 89431

Demolition & New Lighting Plans
 May 28, 2021
 H+K Project No: 2101
E102

Panel: (E) PANEL										Location: Office 2		
Type	Description	Trip	Poles	#	A	B	C	#	Poles	Trip	Description	Type
M	[1]JWH-1	20	1	1	1800	--		2	1	--	Space	--
M	[1]DWH-1	30	1	3		2000	--	4	1	--	Space	--
R	[1]RESTROOM 100...	20	1	5				180	--	6	Space	--
--	OFFICE LIGHTS	20	1	7	1000	4300				8		
--	OFFICE RECEPTACLES (W+N)	20	1	9		1000	4300			10	METAL SHEAR	--
--	OFFICE RECEPTACLES	20	1	11			540	4300		12		
--	SIGN MACHINE	20	1	13	1000	533				14		
--	OH DOOR (220)	50	2	15		3120	533			16	AIR COMPRESSOR	--
				17				3120	533	18		
Total Load:					8633 VA	10953 VA		8673 VA				
Total Amps:					72 A	91 A		72 A				
Load Classification	NEC Reference	Connected Load	Demand Factor	Est. Demand	Load Totals							
L Lighting	NEC 220.42				Total Connected Load: 28259 VA							
R Receptacle	NEC 220.44	180 VA	100.00%	180 VA	Total Demand Load: 28759 VA							
E Equipment												
M Motor	NEC 430.24	3800 VA	113.16%	4300 VA	120/208 Wye System Current							
K Kitchen	NEC 220.56				Connected Amps: 78 A							
H Heating	NEC 220.51				Demand Amps: 89 A							
Copper Bus Size	125	Ground	Standard	Notes:								
Voltage	120/208 Wye	Mounting	Surface	BOLD INDICATES NEW OR MODIFIED LOAD.								
Phase	3	Enclosure	NEMA 1	[1] - PROVIDE NEW BREAKER TO MATCH EXISTING MANUFACTURE AND AIC RATING.								
Wire	4	# of 1-Pole Circuits	18									
Lugs	MLO	Neutral	100.00%									
Breaker AIC Rating	EXISTING	Feeder OCPD Size	100									

DEMOLITION GENERAL NOTES

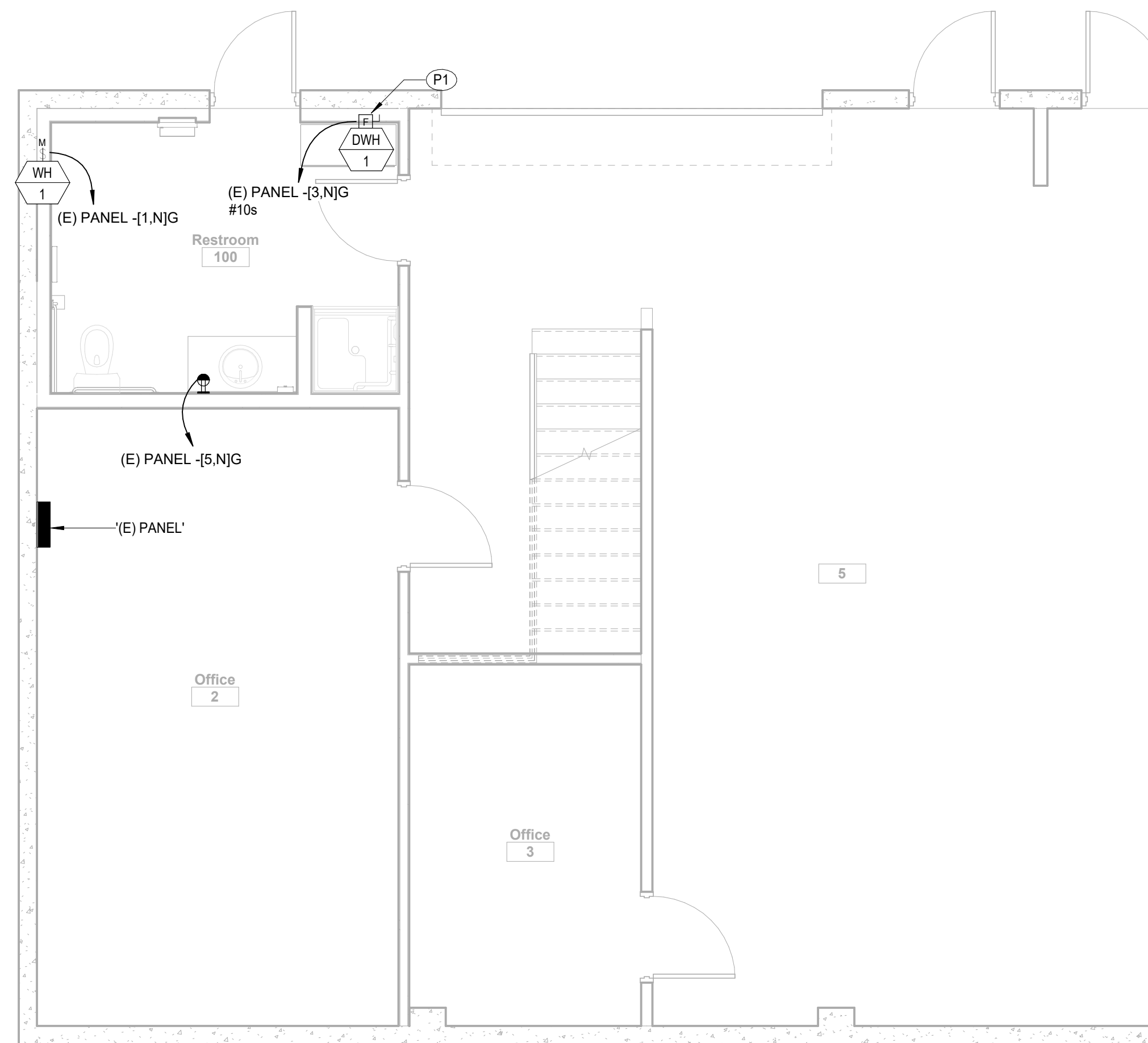
- (X) AND/OR DASHED LINES INDICATE EXISTING EQUIPMENT TO BE REMOVED, (E) AND/OR SOLID HALFTONE LINES INDICATE EXISTING EQUIPMENT TO REMAIN UNLESS NOTED OTHERWISE. F0 Sh0
- SALVAGEABLE ITEMS REMOVED DURING DEMOLITION SHALL BE OFFERED TO OWNER PRIOR TO DISPOSAL OR REMOVAL FROM SITE.
- EXISTING CIRCUITS 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.
- 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.
- 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.

POWER GENERAL NOTES

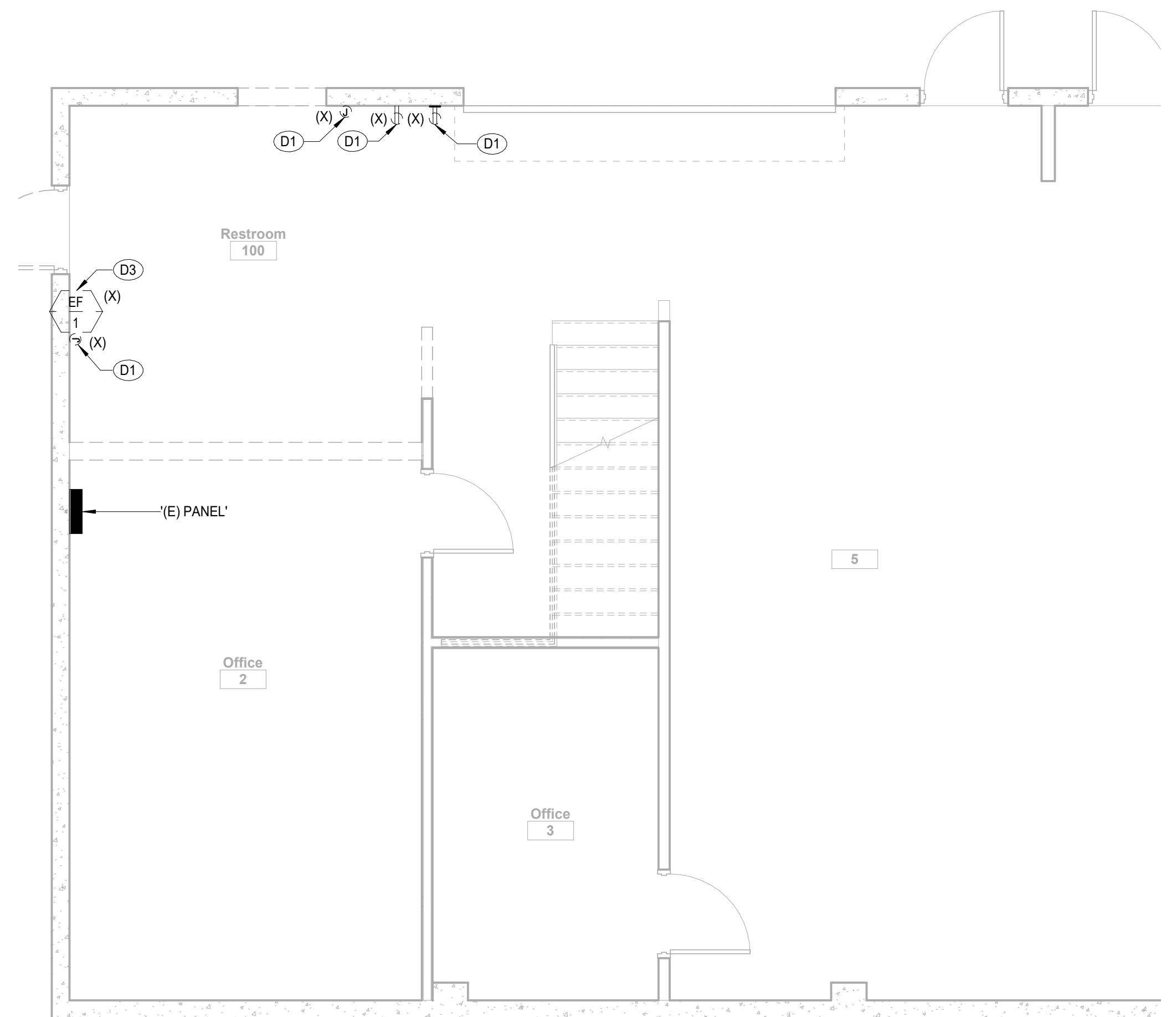
- (E) AND/OR SOLID HALFTONE LINES INDICATE EXISTING EQUIPMENT, (R) AND/OR DASHED LINES INDICATE RELOCATED EQUIPMENT, (N) AND/OR SOLID LINES INDICATE NEW EQUIPMENT UNLESS NOTED OTHERWISE.
- COORDINATE EXACT MOUNTING HEIGHTS AND LOCATIONS OF GENERAL RECEPTACLES, SPECIAL OUTLETS AND DISCONNECT SWITCHES IN SHOP AREAS WITH OWNER AND EQUIPMENT SUPPLIERS PRIOR TO ROUGH-IN.
- VERIFY EXACT ELECTRICAL REQUIREMENTS, PLUG CONFIGURATIONS, ETC., AND FINAL LOCATIONS OF OWNER-PROVIDED EQUIPMENT WITH OWNER'S REPRESENTATIVE PRIOR TO ORDERING OF MATERIALS AND ROUGH-IN.

SHEET NOTES

- D1 EXISTING DEVICE SHALL BE DISCONNECTED AND REMOVED. REMOVE ALL CONDUIT AND WIRE BACK TO TERMINATION POINT. 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 30A/1P/FUSED DISCONNECT SWITCH, NEMA 1 CONSTRUCTION, 120V RATED.



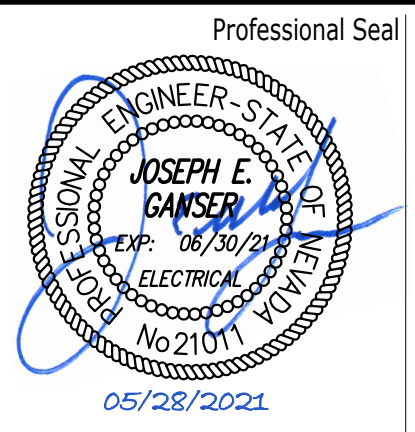
2 ENLARGED RESTROOM NEW POWER
 E201 Scale: 1/4" = 1'-0"



1 ENLARGED RESTROOM DEMOLITION POWER
 E201 Scale: 1/4" = 1'-0"

BIN 360/2101 Sparks Public Works Bullpen/21007 - Sparks Maintenance Yard Restroom Renovation Addition_E21.rvt

5/28/2021 1:59:27 PM



Professional Seal	Date	Revision	Consultant

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 21007

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

**Sparks Public Works Bullpen
 Toilet Room Renovation**
 215 S 21st St
 Sparks, NV 89431

Demolition & New
 Power Plans and Panel
 Schedule
 May 28, 2021
 H+K Project No: 2101
E201

