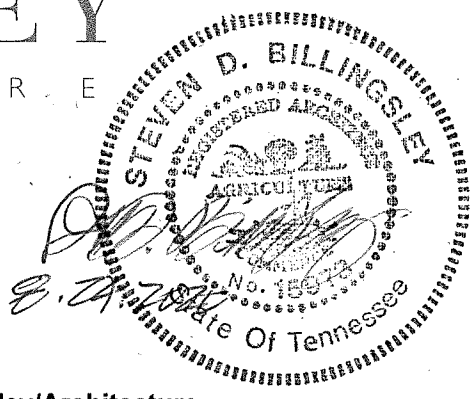
BILLINGSLEY
ARCHITECTURE



DOCUMENT 00 09 00
ADDENDUM NO. 3

Date: **August 24, 2020**

Project: **Chattanooga Police Crime Scene Unit**
Contract No. P-20-003-201
3204 Amnicola Highway
Chattanooga, Tennessee 37406

Architect: **Billingsley/Architecture**
Suite 800 Republic Centre
633 Chestnut Street
Chattanooga, Tennessee 37450
(423) 752-003

This addendum forms a part of the Contract Documents and modifies the original Documents dated August 24, 2020, as noted below. Acknowledge receipt of this Addendum No. 3 in the space provided on the Bid Form and Contracts. Failure to do so may subject the Bidder to disqualification.

This Addendum No. 3 consists of (21) twenty-one 8½" x 11" sheets and (9) nine 24" x 36" sheets.

GENERAL

1. A large portion of this addendum is simply coordinating proper room and door numbering on the drawings, schedules and specifications.
2. The contract documents have been submitted by the Architect to the City of Chattanooga's Plan Review Department for approval. The Plan Review has been paid and the General Contractor will not be responsible for this fee. The General Contractor will be responsible for all other permitting and inspection fees.

CHANGES TO THE PROJECT MANUAL

1. Finish Hardware, Section 08 71 00:
   Delete the previously issued section and substitute the attached section.

CHANGES TO THE DRAWINGS

1. Cover Sheet, Index of Drawings:
   A. Delete Sheet A5.2 in its entirety.
2. Sheet A2.2, Finish Schedule:
   A. Acoustical Ceiling requirement added to Stair 118
   B. Finish for gypsum board walls in Mezzanine M01 added.
3. Sheet A2.3, Door and Frame Schedule:
   A. Modified requirements at doors 103B and 103C.
   B. Modify Hardware requirements for doors 106, 107, 107B, and 201.
   C. Delete doors 108, 108B, 110, 115, and 122.

4. Sheet A2.4, Add Reflected Ceiling Plan for Stair 118. This requires one 2' x 4' recessed LED light fixture which does not appear on the electrical drawings. Electrical subcontractor to include the installation, wiring and 3-way switching of this fixture.

5. Sheet A4.2, Interior Elevation E: Modify requirements at the millwork for the Break Room to provide for a countertop at 34" above finished floor to comply with ADA side approach requirements. 2" offset at counter transition from high to low to be faced with plastic laminate #2.

6. Sheet A5.1,
   A. General: Corrected room numbers.
   B. Interior Elevation E: modified reference of section.
   C. Cabinet Sections 2 and 3: Modified height of section at sink base unit, modified wall cabinet requirements.

7. Sheet A7.1,
   A. General: Corrected room numbers.

8. Sheet P1.1, First Floor Plumbing Plan:
   A. Add requirements for installation of a new floor drain in Vehicle Inspection 117.

9. Sheet P1.2:
   A. Add requirements for installation of a new floor drain in Vehicle Inspection 117.
   B. Add requirements for installation of a new hose bib in Vehicle Inspection 117.

10. Sheet E2.1, 1st Floor Power Plan, Electrical Notes (Sheet not modified or published):
    A. Note #18: Clarification: The drawings do not call for a 225A main breaker to be replaced. They require a new feed thru lug kit to be added to an existing 400A MLO (Square D type NQ) panel. This new lug kit will feed a new 225A main breaker panel.

END OF DOCUMENT

SECTION 08 71 00
DOOR HARDWARE

PART 1 - GENERAL

1.01 RELATED DOCUMENTS

A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 1 Specification Sections, apply to this Section.

1.02 SUMMARY

A. This Section includes commercial door hardware for the following:
   1. Swinging doors.
   2. Sliding doors.
   3. Other doors to the extent indicated.

B. Door hardware includes, but is not necessarily limited to, the following:
   1. Mechanical door hardware.
   2. Electromechanical door hardware.
   3. Cylinders specified for doors in other sections.

C. Related Sections:
   1. Division 08 Section “Door Hardware Schedule”.
   2. Division 08 Section “Hollow Metal Doors and Frames”.
   3. Division 08 Section “Flush Wood Doors”.
   4. Division 08 Section “Access Control Hardware”.

D. Codes and References: Comply with the version year adopted by the Authority Having Jurisdiction.
   1. ANSI A117.1 - Accessible and Usable Buildings and Facilities.
   2. ICC/IBC - International Building Code.
   3. NFPA 70 - National Electrical Code.
   4. NFPA 80 - Fire Doors and Windows.
   5. NFPA 101 - Life Safety Code.
   6. NFPA 105 - Installation of Smoke Door Assemblies.
   7. State Building Codes, Local Amendments.

E. Standards: All hardware specified herein shall comply with the following industry standards:
   1. ANSI/BHMA Certified Product Standards - A156 Series
   2. UL10C – Positive Pressure Fire Tests of Door Assemblies

1.03 SUBMITTALS

A. Product Data: Manufacturer's product data sheets including installation details, material descriptions, dimensions of individual components and profiles, operational descriptions and finishes.

B. Door Hardware Schedule: Prepared by or under the supervision of supplier, detailing fabrication and assembly of door hardware, as well as procedures and diagrams. Coordinate the final Door Hardware Schedule with doors, frames, and related work to ensure proper size, thickness, hand, function, and finish of door hardware.
   1. Format: Comply with scheduling sequence and vertical format in DHI's "Sequence and Format for the Hardware Schedule."
   2. Organization: Organize the Door Hardware Schedule into door hardware sets indicating complete designations of every item required for each door or opening. Organize door hardware sets in same order as in the Door Hardware Sets at the end of Part 3. Submittals that do not follow the same format and order as the Door Hardware Sets will be rejected and subject to resubmission.
   3. Content: Include the following information:
      a. Type, style, function, size, label, hand, and finish of each door hardware item.
      b. Manufacturer of each item.
      c. Fastenings and other pertinent information.
      d. Location of door hardware set, cross-referenced to Drawings, both on floor plans and in door and frame schedule.
      e. Explanation of abbreviations, symbols, and codes contained in schedule.
      f. Mounting locations for door hardware.
      g. Door and frame sizes and materials.
      h. Warranty information for each product.
   4. Submittal Sequence: Submit the final Door Hardware Schedule at earliest possible date, particularly where approval of the Door Hardware Schedule must precede fabrication of other work that is critical in the Project construction schedule. Include Product Data, Samples, Shop Drawings of other work affected by door hardware, and other information essential to the coordinated review of the Door Hardware Schedule.

C. Shop Drawings: Details of electrified access control hardware indicating the following:
   1. Wiring Diagrams: Upon receipt of approved schedules, submit detailed system wiring diagrams for power, signaling, monitoring, communication, and control of the access control system electrified hardware. Differentiate between manufacturer-installed and field-installed wiring. Include the following:
      a. Elevation diagram of each unique access controlled opening showing location and interconnection of major system components with respect to their placement in the respective door openings.
      b. Complete (risers, point-to-point) access control system block wiring diagrams.
      c. Wiring instructions for each electronic component scheduled herein.
   2. Electrical Coordination: Coordinate with related sections the voltages and wiring details required at electrically controlled and operated hardware openings.

D. Keying Schedule: After a keying meeting with the owner has taken place prepare a separate keying schedule detailing final instructions. Submit the keying schedule in electronic format. Include keying system explanation, door numbers, key set symbols, hardware set numbers and special instructions. Owner must approve submitted keying schedule prior to the ordering of permanent cylinders/cores.

E. Informational Submittals:
   1. Product Test Reports: Indicating compliance with cycle testing requirements, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified independent testing agency.

F. Operating and Maintenance Manuals: Provide manufacturers operating and maintenance manuals for each item comprising the complete door hardware installation in quantity as required in Division 01, Closeout Submittals.

1.04 QUALITY ASSURANCE

A. Manufacturers Qualifications: Engage qualified manufacturers with a minimum 5 years of documented experience in producing hardware and equipment similar to that indicated for this Project and that have a proven record of successful in-service performance.

B. Installer Qualifications: A minimum 3 years documented experience installing both standard and electrified door hardware similar in material, design, and extent to that indicated for this Project and whose work has resulted in construction with a record of successful in-service performance.

C. Door Hardware Supplier Qualifications: Experienced commercial door hardware distributors with a minimum 5 years documented experience supplying both mechanical and electromechanical hardware installations comparable in material, design, and extent to that indicated for this Project. Supplier recognized as a factory direct distributor by the manufacturers of the primary materials with a warehousing facility in Project's vicinity. Supplier to have on staff a certified Architectural Hardware Consultant (AHC) available during the course of the Work to consult with Contractor, Architect, and Owner concerning both standard and electromechanical door hardware and keying.

D. Source Limitations: Obtain each type and variety of door hardware specified in this section from a single source unless otherwise indicated.
   1. Electrified modifications or enhancements made to a source manufacturer's product line by a secondary or third party source will not be accepted.
   2. Provide electromechanical door hardware from the same manufacturer as mechanical door hardware, unless otherwise indicated.

E. Each unit to bear third party permanent label demonstrating compliance with the referenced standards.

F. Keying Conference: Conduct conference to comply with requirements in Division 01 Section "Project Meetings." Keying conference to incorporate the following criteria into the final keying schedule document:
   1. Function of building, purpose of each area and degree of security required.
   2. Plans for existing and future key system expansion.
   3. Requirements for key control storage and software.
   4. Installation of permanent keys, cylinder cores and software.
   5. Address and requirements for delivery of keys.

1.05 DELIVERY, STORAGE, AND HANDLING

A. Inventory door hardware on receipt and provide secure lock-up and shelving for door hardware delivered to Project site. Do not store electronic access control hardware, software or accessories at Project site without prior authorization.

B. Tag each item or package separately with identification related to the final Door Hardware Schedule, and include basic installation instructions with each item or package.

C. Deliver, as applicable, permanent keys, cylinders, cores, access control credentials, software and related accessories directly to Owner via registered mail or overnight package service. Instructions for delivery to the Owner shall be established at the "Keying Conference".

1.06 COORDINATION

A. Templates: Obtain and distribute to the parties involved templates for doors, frames, and other work specified to be factory prepared for installing standard and electrified hardware. Check Shop Drawings of other work to confirm that adequate provisions are made for locating and installing hardware to comply with indicated requirements.

B. Door Hardware and Electrical Connections: Coordinate the layout and installation of scheduled electrified door hardware and related access control equipment with required connections to source power junction boxes, low voltage power supplies, detection and monitoring hardware, and fire and detection alarm systems.

C. Door and Frame Preparation: Doors and corresponding frames are to be prepared, reinforced and pre-wired (if applicable) to receive the installation of the specified electrified, monitoring, signaling and access control system hardware without additional in-field modifications.

1.07 WARRANTY

A. General Warranty: Reference Division 01, General Requirements. Special warranties specified in this Article shall not deprive Owner of other rights Owner may have under other provisions of the Contract Documents and shall be in addition to, and run concurrent with, other warranties made by Contractor under requirements of the Contract Documents.

B. Warranty Period: Written warranty, executed by manufacturer(s), agreeing to repair or replace components of standard and electrified door hardware that fails in materials or workmanship within specified warranty period after final acceptance by the Owner. Failures include, but are not limited to, the following:
   1. Structural failures including excessive deflection, cracking, or breakage.
   2. Faulty operation of the hardware.
   3. Deterioration of metals, metal finishes, and other materials beyond normal weathering.
   4. Electrical component defects and failures within the systems operation.

C. Standard Warranty Period: One year from date of Substantial Completion, unless otherwise indicated.

D. Special Warranty Periods:
   1. Seven years for heavy duty cylindrical (bored) locks and latches.
   2. Five years for exit hardware.
   3. Twenty five years for manual surface door closer bodies.
   4. Five years for motorized electric latch retraction exit devices.
   5. Two years for electromechanical door hardware.

1.08 MAINTENANCE SERVICE

A. Maintenance Tools and Instructions: Furnish a complete set of specialized tools and maintenance instructions as needed for Owner's continued adjustment, maintenance, and removal and replacement of door hardware.

PART 2 – PRODUCTS

2.01 SCHEDULED DOOR HARDWARE

A. General: Provide door hardware for each door to comply with requirements in Door Hardware Sets and each referenced section that products are to be supplied under.

B. Designations: Requirements for quantity, item, size, finish or color, grade, function, and other distinctive qualities of each type of door hardware are indicated in the Door Hardware Sets at the end of Part 3. Products are identified by using door hardware designations, as follows:

   1. Named Manufacturer's Products: Product designation and manufacturer are listed for each door hardware type required for the purpose of establishing requirements. Manufacturers' names are abbreviated in the Door Hardware Schedule.

C. Substitutions: Requests for substitution and product approval for inclusive mechanical and electromechanical door hardware in compliance with the specifications must be submitted in writing and in accordance with the procedures and time frames outlined in Division 01, Substitution Procedures. Approval of requests is at the discretion of the architect, owner, and their designated consultants.

2.02 HANGING DEVICES

A. Hinges: ANSI/BHMA A156.1 certified butt hinges with number of hinge knuckles and other options as specified in the Door Hardware Sets.
   1. Quantity: Provide the following hinge quantity:
      a. Two Hinges: For doors with heights up to 60 inches.
      b. Three Hinges: For doors with heights 61 to 90 inches.
      c. Four Hinges: For doors with heights 91 to 120 inches.
      d. For doors with heights more than 120 inches, provide 4 hinges, plus 1 hinge for every 30 inches of door height greater than 120 inches.
   2. Hinge Size: Provide the following, unless otherwise indicated, with hinge widths sized for door thickness and clearances required:
      a. Widths up to 3’0”: 4-1/2” standard or heavy weight as specified.
      b. Sizes from 3’1” to 4’0”: 5” standard or heavy weight as specified.
   3. Hinge Weight and Base Material: Unless otherwise indicated, provide the following:

a. Exterior Doors: Heavy weight, non-ferrous, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate standard weight.
b. Interior Doors: Standard weight, steel, ball bearing or oil impregnated bearing hinges unless Hardware Sets indicate heavy weight.

4. Hinge Options: Comply with the following:
   a. Non-removable Pins: Provide set screw in hinge barrel that, when tightened into a groove in hinge pin, prevents removal of pin while door is closed; for the all out-swinging lockable doors.
5. Manufacturers:
   a. Hager Companies (HA).
   b. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK).
   c. Stanley Hardware (ST).

B. Continuous Geared Hinges: ANSI/BHMA A156.26 Grade 1-600 certified continuous geared hinge with minimum 0.120-inch thick extruded 6060 T6 aluminum alloy hinge leaves and a minimum overall width of 4 inches. Hinges are non-handed, reversible and fabricated to template screw locations. Factory trim hinges to suit door height and prepare for electrical cut-outs.

1. Manufacturers:
   a. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK).
   b. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE).

2.03 POWER TRANSFER DEVICES

A. Electrified Quick Connect Transfer Hinges: Provide electrified transfer hinges with Molex™ standardized plug connectors and sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.

1. Manufacturers:
   a. Hager Companies (HA) - ETW-QC (# wires) Option.
   b. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - QC (# wires) Option.
   c. Stanley Hardware (ST) – C Option.

B. Electrified Quick Connect Continuous Geared Transfer Hinges: Provide electrified transfer continuous geared hinges with a 12" removable service panel cutout accessible without de-mounting door from the frame. Furnish with Molex™ standardized plug connectors with sufficient number of concealed wires (up to 12) to accommodate the electrified functions specified in the Door Hardware Sets.

Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Wire nut connections are not acceptable.

1. Manufacturers:
   a. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - SER-QC (# wires) Option.
   b. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE) - SER-QC (# wires) Option.

C. Electric Door Wire Harnesses: Provide electric/data transfer wiring harnesses with standardized plug connectors to accommodate up to twelve (12) wires. Connectors plug directly to through-door wiring harnesses for connection to electric locking devices and power supplies. Provide sufficient number and type of concealed wires to accommodate electric function of specified hardware. Provide a connector for through-door electronic locking devices and from hinge to junction box above the opening. Wire nut connections are not acceptable. Determine the length required for each electrified hardware component for the door type, size and construction, minimum of two per electrified opening.

1. Provide one each of the following tools as part of the base bid contract:
    a. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - Electrical Connecting Kit: QC-R001.
    b. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) - Connector Hand Tool: QC-R003.
2. Manufacturers:
    a. Hager Companies (HA) - Quick Connect.
    b. McKinney Products; ASSA ABLOY Architectural Door Accessories (MK) – QC-C Series.
    c. Stanley Hardware (ST) – WH Series.

2.04 DOOR OPERATING TRIM

A. Flush Bolts and Surface Bolts: ANSI/BHMA A156.3 and A156.16, Grade 1, certified.

1. Flush bolts to be furnished with top rod of sufficient length to allow bolt retraction device location approximately six feet from the floor.
2. Furnish dust proof strikes for bottom bolts.
3. Surface bolts to be minimum 8” in length and U.L. listed for labeled fire doors and U.L. listed for windstorm components where applicable.
4. Provide related accessories (mounting brackets, strikes, coordinators, etc.) as required for appropriate installation and operation.
5. Manufacturers:
    a. Door Controls International (DC).
    b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
    c. Trimco (TC).

2.05 CYLINDERS AND KEYING

A. General: Cylinder manufacturer to have minimum ten (10) years experience designing secured master key systems and have on record a published security keying system policy.

B. Source Limitations: Obtain each type of keyed cylinder and keys from the same source manufacturer as locksets and exit devices, unless otherwise indicated.

C. Cylinders: Original manufacturer cylinders complying with the following:

1. Mortise Type: Threaded cylinders with rings and cams to suit hardware application.
2. Rim Type: Cylinders with back plate, flat-type vertical or horizontal tailpiece, and raised trim ring.
3. Bored-Lock Type: Cylinders with tailpieces to suit locks.

4. Mortise and rim cylinder collars to be solid and recessed to allow the cylinder face to be flush and be free spinning with matching finishes.
5. Keyway: **Match Facility Standard**.

D. Keying System: Each type of lock and cylinders to be factory keyed.
1. Conduct specified "Keying Conference" to define and document keying system instructions and requirements.
2. Furnish factory cut, nickel-silver large bow permanently inscribed with a visual key control number as directed by Owner.
3. **Existing System: Key locks to Owner's existing system**.

E. Key Quantity: Provide the following minimum number of keys:
1. Change Keys per Cylinder: Two (2)
2. Master Keys (per Master Key Level/Group): Five (5).
3. Construction Keys (where required): Ten (10).

F. Construction Keying: Provide construction master keyed cylinders.

G. Key Registration List (Bitting List):
1. Provide keying transcript list to Owner's representative in the proper format for importing into key control software.
2. Provide transcript list in writing or electronic file as directed by the Owner.

2.06 MECHANICAL LOCKS AND LATCHING DEVICES

A. Cylindrical Locksets, Grade 1 (Heavy Duty): ANSI/BHMA A156.2, Series 4000, Grade 1 certified.
1. Furnish with solid cast levers, standard 2 3/4” backset, and 1/2" (3/4" at rated paired openings) throw brass or stainless steel latchbolt.
2. Locks are to be non-handed and fully field reversible.
3. Extended cycle test: Locks to have been cycle tested in ordinance with ANSI/BHMA 156.2 requirements to 2 million cycles.
4. Manufacturers:
    a. Schlage
    b. Sargent Manufacturing (SA) – 10 Line.

2.07 ELECTROMECHANICAL LOCKING DEVICES

A. Electromechanical Mortise Locksets, Grade 1 (Heavy Duty): Subject to same compliance standards and requirements as mechanical mortise locksets, electrified locksets to be of type and design as specified below.
1. Electrified Lock Options: Where indicated in the Hardware Sets, provide electrified options including: outside door lock/unlock trim control, latchbolt and lock/unlock status monitoring, deadbolt monitoring, and request-to-exit signaling. Support end-of-line resistors contained within the lock case. Unless otherwise indicated, provide electrified locksets standard as fail secure.
2. Energy Efficient Design: Provide lock bodies which have a holding current draw of 15mA maximum, and can operate on either 12 or 24 volts. Locks are to be field configurable for fail safe or fail secure operation.
3. High Security Monitoring: Provide lock bodies which have built-in request to exit monitoring and are provided with accompanying door position switches. Provide

a resistor configuration which is compatible with the access control system.

4. Manufacturers:
    a. Corbin Russwin Hardware (RU) - ML20900 Series.
    b. Sargent Manufacturing (SA) - 8200 Series.
    c. Yale Locks and Hardware (YA) – 8800FL Series.

B. Electromechanical Cylindrical Locksets, Grade 1 (Heavy Duty): Subject to same compliance standards and requirements as mechanical cylindrical locksets, electrified locksets to be of type and design as specified below.

1. Electrified Lock Options: Where indicated in the Hardware Sets, provide electrified options including: outside door lock/unlock trim control, latch bolt and lock/unlock status monitoring, and request-to-exit signaling. Unless otherwise indicated, provide electrified locksets standard as fail secure.
2. Manufacturers:
    a. Corbin Russwin Hardware (RU) - CL33900 Series.
    b. Sargent Manufacturing (SA) - 10G70/71 Series.
    c. Yale Locks and Hardware (YA) - 5480/5490LN Series.

2.08 LOCK AND LATCH STRIKES

A. Strikes: Provide manufacturer's standard strike with strike box for each latch or lock bolt, with curved lip extended to protect frame, finished to match door hardware set, unless otherwise indicated, and as follows:

1. Flat-Lip Strikes: For locks with three-piece antifriction latch bolts, as recommended by manufacturer.
2. Extra-Long-Lip Strikes: For locks used on frames with applied wood casing trim.
3. Aluminum-Frame Strike Box: Provide manufacturer's special strike box fabricated for aluminum framing.
4. Double-lipped strikes: For locks at double acting doors. Furnish with retractable stop for rescue hardware applications.

B. Standards: Comply with the following:

1. Strikes for Mortise Locks and Latches: BHMA A156.13.
2. Strikes for Bored Locks and Latches: BHMA A156.2.
3. Strikes for Auxiliary Deadlocks: BHMA A156.36.
4. Dustproof Strikes: BHMA A156.16.

2.09 CONVENTIONAL EXIT DEVICES

A. General Requirements: All exit devices specified herein shall meet or exceed the following criteria:

1. At doors not requiring a fire rating, provide devices complying with NFPA 101 and listed and labeled for "Panic Hardware" according to UL305. Provide proper fasteners as required by manufacturer including sex nuts and bolts at openings specified in the Hardware Sets.
2. Where exit devices are required on fire rated doors, provide devices complying with NFPA 80 and with UL labeling indicating "Fire Exit Hardware". Provide devices with the proper fasteners for installation as tested and listed by UL. Consult manufacturer’s catalog and template book for specific requirements.
3. Except on fire rated doors, provide exit devices with hex key dogging device to hold the push bar and latch in a retracted position. Provide optional keyed cylinder dogging on devices where specified in Hardware Sets.

4. Devices must fit flat against the door face with no gap that permits unauthorized dogging of the push bar. The addition of filler strips is required in any case where the door light extends behind the device as in a full glass configuration.
5. Electromechanical Options: Subject to same compliance standards and requirements as mechanical exit devices, electrified devices to be of type and design as specified in hardware sets. Include any specific controllers when conventional power supplies are not sufficient to provide the proper inrush current.
6. Lever Operating Trim: Where exit devices require lever trim, furnish manufacturer's heavy duty escutcheon trim with threaded studs for thru-bolts.
    a. Lock Trim Design: As indicated in Hardware Sets, provide finishes and designs to match that of the specified locksets.
    b. Where function of exit device requires a cylinder, provide a cylinder (Rim or Mortise) as specified in Hardware Sets.
7. Vertical Rod Exit Devices: Where surface or concealed vertical rod exit devices are used at interior openings, provide as less bottom rod (LBR) unless otherwise indicated. Provide dust proof strikes where thermal pins are required to project into the floor.
8. Narrow Stile Applications: At doors constructed with narrow stiles, or as specified in Hardware Sets, provide devices designed for maximum 2” wide stiles.
9. Dummy Push Bar: Nonfunctioning push bar matching functional push bar.
10. Rail Sizing: Provide exit device rails factory sized for proper door width application.
11. Through Bolt Installation: For exit devices and trim as indicated in Door Hardware Sets.

B. Conventional Push Rail Exit Devices (Heavy Duty): ANSI/BHMA A156.3, Grade 1 certified panic and fire exit hardware devices furnished in the functions specified in the Hardware Sets. Exit device latch to be stainless steel, pullman type, with deadlock feature.
    1. Manufacturers:
        a. Von Duprin – Series 98.
        b. Sargent Manufacturing (SA) - 80 Series.

2.10 DOOR CLOSERS

A. All door closers specified herein shall meet or exceed the following criteria:
    1. General: Door closers to be from one manufacturer, matching in design and style, with the same type door preparations and templates regardless of application or spring size. Closers to be non-handed with full sized covers including installation and adjusting information on inside of cover.
    2. Standards: Closers to comply with UL-10C for Positive Pressure Fire Test and be U.L. listed for use of fire rated doors.
    3. Cycle Testing: Provide closers which have surpassed 15 million cycles in a test witnessed and verified by UL.
    4. Size of Units: Comply with manufacturer's written recommendations for sizing of door closers depending on size of door, exposure to weather, and anticipated frequency of use. Where closers are indicated for doors required to be accessible to the physically handicapped, provide units complying with ANSI ICC/A117.1.
    5. Closer Arms: Provide heavy duty, forged steel closer arms unless otherwise

indicated in Hardware Sets.

6. Closers shall not be installed on exterior or corridor side of doors; where possible install closers on door for optimum aesthetics.
7. Closer Accessories: Provide door closer accessories including custom templates, special mounting brackets, spacers and drop plates as required for proper installation. Provide through-bolt and security type fasteners as specified in the hardware sets.

B. Door Closers, Surface Mounted (Heavy Duty): ANSI/BHMA A156.4, Grade 1 surface mounted, heavy duty door closers with complete spring power adjustment, sizes 1 thru 6; and fully operational adjustable according to door size, frequency of use, and opening force. Closers to be rack and pinion type, one piece cast iron or aluminum alloy body construction, with adjustable backcheck and separate non-critical valves for closing sweep and latch speed control. Provide non-handed units standard.

1. Manufacturers:
    a. LCN – 4210 series.
    b. Sargent Manufacturing (SA) - 351 Series.
    c. Norton Door Controls (NO) - 7500 Series.
    d. Yale Locks and Hardware (YA) - 4400 Series.

2.11 ARCHITECTURAL TRIM

A. Door Protective Trim

1. General: Door protective trim units to be of type and design as specified below or in the Hardware Sets.
2. Size: Fabricate protection plates (kick, armor, or mop) not more than 2" less than door width (LDW) on stop side of single doors and 1” LDW on stop side of pairs of doors, and not more than 1" less than door width on pull side. Coordinate and provide proper width and height as required where conflicting hardware dictates. Height to be as specified in the Hardware Sets.
3. Where plates are applied to fire rated doors with the top of the plate more than 16” above the bottom of the door, provide plates complying with NFPA 80. Consult manufacturer’s catalog and template book for specific requirements for size and applications.
4. Protection Plates: ANSI/BHMA A156.6 certified protection plates (kick, armor, or mop), fabricated from the following:
    a. Stainless Steel: 300 grade, 050-inch thick.
5. Options and fasteners: Provide manufacturer's designated fastener type as specified in the Hardware Sets. Provide countersunk screw holes.
6. Manufacturers:
    a. Hiawatha, Inc. (HI).
    b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
    c. Ives.
    d. Glynn Johnson (GJ).

2.12 DOOR STOPS AND HOLDERS

A. General: Door stops and holders to be of type and design as specified below or in the Hardware Sets.

B. Door Stops and Bumpers: ANSI/BHMA A156.16, Grade 1 certified door stops and wall bumpers. Provide wall bumpers, either convex or concave types with anchorage as

indicated, unless floor or other types of door stops are specified in Hardware Sets. Do not mount floor stops where they will impede traffic. Where floor or wall bumpers are not appropriate, provide overhead type stops and holders.

1. Manufacturers:
    a. Hiawatha, Inc. (HI).
    b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
    c. Ives.

C. Overhead Door Stops and Holders: ANSI/BHMA A156.6, Grade 1 certified overhead stops and holders to be surface or concealed types as indicated in Hardware Sets. Track, slide, arm and jamb bracket to be constructed of extruded bronze and shock absorber spring of heavy tempered steel. Provide non-handed design with mounting brackets as required for proper operation and function.

1. Manufacturers:
    a. Rixson Door Controls (RF).
    b. Rockwood Products; ASSA ABLOY Architectural Door Accessories (RO).
    c. Sargent Manufacturing (SA).

2.13 ARCHITECTURAL SEALS

A. General: Thresholds, weatherstripping, and gasket seals to be of type and design as specified below or in the Hardware Sets. Provide continuous weatherstrip gasketing on exterior doors and provide smoke, light, or sound gasketing on interior doors where indicated. At exterior applications provide non-corrosive fasteners and elsewhere where indicated.

B. Smoke Labeled Gasketing: Assemblies complying with NFPA 105 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for smoke control ratings indicated, based on testing according to UL 1784.

1. Provide smoke labeled perimeter gasketing at all smoke labeled openings.

C. Fire Labeled Gasketing: Assemblies complying with NFPA 80 that are listed and labeled by a testing and inspecting agency acceptable to authorities having jurisdiction, for fire ratings indicated, based on testing according to UL-10C.

1. Provide intumescent seals as indicated to meet UL10C Standard for Positive Pressure Fire Tests of Door Assemblies, and NPFA 252, Standard Methods of Fire Tests of Door Assemblies.

D. Sound-Rated Gasketing: Assemblies that are listed and labeled by a testing and inspecting agency, for sound ratings indicated.

E. Replaceable Seal Strips: Provide only those units where resilient or flexible seal strips are easily replaceable and readily available from stocks maintained by manufacturer.

F. Manufacturers:

1. National Guard Products (NG).
2. Pemko Products; ASSA ABLOY Architectural Door Accessories (PE).
3. Reese Enterprises, Inc. (RE).

2.14 ELECTRONIC ACCESSORIES

A. Power Supplies: Provide Nationally Recognized Testing Laboratory Listed 12VDC or 24VDC (field selectable) filtered and regulated power supplies. Include battery backup option with integral battery charging capability in addition to operating the DC load in event of line voltage failure. Provide the least number of units, at the appropriate amperage level, sufficient to exceed the required total draw for the specified electrified hardware and access control equipment.
   1. Manufacturers:
      a. Security Door Controls (SD) - 630 Series.
      b. Securitron (SU) - BPS Series.

2.15 FABRICATION

A. Fasteners: Provide door hardware manufactured to comply with published templates generally prepared for machine, wood, and sheet metal screws. Provide screws according to manufacturers recognized installation standards for application intended.

2.16 FINISHES

A. Standard: Designations used in the Hardware Sets and elsewhere indicate hardware finishes complying with ANSI/BHMA A156.18, including coordination with traditional
U.S. finishes indicated by certain manufacturers for their products.

B. Provide quality of finish, including thickness of plating or coating (if any), composition, hardness, and other qualities complying with manufacturer's standards, but in no case less than specified by referenced standards for the applicable units of hardware

C. Protect mechanical finishes on exposed surfaces from damage by applying a strippable, temporary protective covering before shipping.

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine scheduled openings, with Installer present, for compliance with requirements for installation tolerances, labeled fire door assembly construction, wall and floor construction, and other conditions affecting performance.

B. Notify architect of any discrepancies or conflicts between the door schedule, door types, drawings and scheduled hardware. Proceed only after such discrepancies or conflicts have been resolved in writing.

3.02 PREPARATION

A. Hollow Metal Doors and Frames: Comply with ANSI/DHI A115 series.

B. Wood Doors: Comply with ANSI/DHI A115-W series.

3.03 INSTALLATION

A. Install each item of mechanical and electromechanical hardware and access control equipment to comply with manufacturer's written instructions and according to specifications.
   1. Installers are to be trained and certified by the manufacturer on the proper installation and adjustment of fire, life safety, and security products including: hanging devices; locking devices; closing devices; and seals.

B. Mounting Heights: Mount door hardware units at heights indicated in following applicable publications, unless specifically indicated or required to comply with governing regulations:

   1. Standard Steel Doors and Frames: DHI's "Recommended Locations for Architectural Hardware for Standard Steel Doors and Frames."
   2. Wood Doors: DHI WDHS.3, "Recommended Locations for Architectural Hardware for Wood Flush Doors."
   3. Where indicated to comply with accessibility requirements, comply with ANSI A117.1 "Accessibility Guidelines for Buildings and Facilities."
   4. Provide blocking in drywall partitions where wall stops or other wall mounted hardware is located.

C. Retrofitting: Install door hardware to comply with manufacturer's published templates and written instructions. Where cutting and fitting are required to install door hardware onto or into surfaces that are later to be painted or finished in another way, coordinate removal, storage, and reinstallation of surface protective trim units with finishing work specified in Division 9 Sections. Do not install surface-mounted items until finishes have been completed on substrates involved.

D. Thresholds: Set thresholds for exterior and acoustical doors in full bed of sealant complying with requirements specified in Division 7 Section "Joint Sealants."

E. Storage: Provide a secure lock up for hardware delivered to the project but not yet installed. Control the handling and installation of hardware items so that the completion of the work will not be delayed by hardware losses before and after installation.

3.04 FIELD QUALITY CONTROL

A. Field Inspection: Supplier will perform a final inspection of installed door hardware and state in report whether work complies with or deviates from requirements, including whether door hardware is properly installed, operating and adjusted.

3.05 ADJUSTING

A. Initial Adjustment: Adjust and check each operating item of door hardware and each door to ensure proper operation or function of every unit. Replace units that cannot be adjusted to operate as intended. Adjust door control devices to compensate for final operation of heating and ventilating equipment and to comply with referenced accessibility requirements.

3.06 CLEANING AND PROTECTION

A. Protect all hardware stored on construction site in a covered and dry place. Protect exposed hardware installed on doors during the construction phase. Install any and all hardware at the latest possible time frame.

B. Clean adjacent surfaces soiled by door hardware installation.

C. Clean operating items as necessary to restore proper finish. Provide final protection and maintain conditions that ensure door hardware is without damage or deterioration at time of owner occupancy.

3.07 DEMONSTRATION

A. Instruct Owner's maintenance personnel to adjust, operate, and maintain mechanical and electromechanical door hardware.

3.08 DOOR HARDWARE SETS

A. The hardware sets represent the design intent and direction of the owner and architect. They are a guideline only and should not be considered a detailed hardware schedule. Discrepancies, conflicting hardware and missing items should be brought to the attention of the architect with corrections made prior to the bidding process. Omitted items not included in a hardware set should be scheduled with the appropriate additional hardware required for proper application and functionality.

B. The supplier is responsible for handing and sizing all products as listed in the door hardware sets. Quantities listed are for each pair of doors, or for each single door.

C. Manufacturer’s Abbreviations:

1. MK - McKinney
2. RO - Rockwood
3. SA - Sargent
4. RF - Rixson
5. PE - Pemko
6. HD - HID
7. RU - Corbin Russwin
8. SU - Securitron
9. CO – Competitors
10. SC – Schlage
11. VD – Von Duprin
12. IV – Ives
13. GJ – Glynn Johnson

HARDWARE SETS

Set: 1
Door: 100
Description: Exterior from Entry

3 Hinges (heavy weight)	T4A3786 NRP 4-1/2” x 4-1/2”	US26D MK
1 Storeroom Lock	8204LNL	US26D
1 Cylinder	By Owner	
1 Electric Strike	8500	HES
1 Closer	7500 P/A	689
1 Gasketing	S88D	
1 Threshold	2005T,	US32D LAR
1 Door Stop	481H	US26D

Set: 2
Doors: 101
Description: Entry/ Security Area/ Lab/ IDF

3 Hinge	TA2714	US26D	MK
1 Storeroom Lock	8204 LNL	US26D	SA
1 Cylinder	as required to match existing key system		OT
1 Surface Closer	7500 (Reg or P/A)	689	NO
1 Kick Plate	K1050 10" high CSK	US32D	RO
1 Wall Stop	403	US26D	RO
3 Silencer	608		RO

Set: 3
Doors: 102
Description: New Public Restroom

3 Hinge	TA2714	US26D	MK
1 Privacy Lock	49 8265 LNL	US26D	SA
1 Kick Plate	K1050 10" high CSK	US32D	RO
1 Wall Stop	403	US26D	RO
3 Silencer	608		RO
1 Coat Hook	RM801	US26D	RO

Set: 4
Door: 103A, 103B, 103C, 104, 128
Description: Security Area/Hall/Building Lobby

3 Hinges (heavy weight)	T4A3786	US26D 4-1/2”x4-1/2”
1 Storeroom Lock	8204 LNL	US26D
1 Cylinder	By Owner	
1 Electric Strike	8500	HES
1 Closer	7500 P/A	689
1 Kick Plate	K1050, 10” x 2” LDW	US32D
1 Wall Stop	403	US26D
3 Silencers	608	

Set: 5
Door: 105,
Description: Elevator Mechanical Room,

Existing – no work

Set: 6
Doors: 7
Description: Break Room

3	Hinge	TA2714	US26D	MK
1	Push Plate	81	US32D	RO
1	Pull Plate	110x81	US32D	RO
1	Surface Closer	7500 (Reg or P/A)	689	NO
1	Kick Plate	K1050 10" high CSK	US32D	RO
1	Wall Stop	403	US26D	RO
3	Silencer	608		RO

Set: 7
Doors: 111
Description: Sergeant Office

3	Hinge	TA2714	US26D	MK
1	Office Lock	705L	US26D	SA
1	Cylinder	as required to match existing key system		OT
1	Wall Stop	403	US26D	RO
3	Silencer	608		RO

Set: 8.
Doors: 114, 117A, 119, 125, 126
Description: Blood Room, Vehicle Inspection Bay, New Corridor

3	Hinge	TA2714	US32D	MK
1	Office Lock	705 L	US26D	SA
1	Cylinder	as required to match existing key system		OT
1	Surface Closer	7500 P/A	689	RF
1	Kick Plate	K1050 10" high CSK	US32D	RO
3	Silencer	608		RO

Set: 9
Door: 111B
Description: Office to Closet

3 Hinges	TA2714, 4-1/2” x 4-1/2”	US26 DMK
1 Office Lock	705L	US26D SA
3 Silencers	608	

Set: 10
Doors: 116, 201
Description: Evidence Vault/ New Corridor

3 Hinge	TA2714	US26D	MK
1 Storeroom Lock	704L	US26D	SA
1 Cylinder	as required to match existing key system		OT
1 Surface Closer	7500 (Reg or P/A)	689	NO
1 Kick Plate	K1050 10" high CSK	US32D	RO
3 Silencers			RO

Set: 11
Doors: 117B
Description: Vehicle Insp. Bay Overhead Door

1 Cylinder	as required to match existing key system	OT
1 Hardware	balance of hardware by door manufacturer	OT

Set: 12
Doors: 106, 121,
Description: Photo Lab/ Dark Room

3 Hinge	TA2714	US26D	MK
1 Office Lock	705L	US26D	SA
1 Cylinder	as required to match existing key system		OT
1 Wall Stop	403	US26D	RO
3 Silencer (Door 121)	608		RO
1 Gasketing (Door 122)	S88D (Head & Jambs)		PE

Set: 13
Doors: 113, 123
Description: Janitor Closet / Storage Closet

3 Hinge	TA2714	US26D	MK
1 Storeroom Lock	715L	US26D	SA
1 Wall Stop	403	US26D	RO
3 Silencer	608		RO

Set: 14
Doors: 125B
Description: Chemical Storage

6 Hinge	TA2314	US32D	MK
1 Dust Proof Strike	570	US26D	RO
2 Flush Bolt	555 / 557 (As Required)	US26D	RO
1 Office Lock	705L	US26D	SA
1 Cylinder	as required to match existing key system		OT
1 Surface Closer	CPS7500	689	NO
1 Wall Stop	403 (or) 441CU (As Required)	US26D	RO
2 Silencer	608		RO

Set: 15
Doors: 127
Description: Aluminum Entrance

1	Continuous Hinge	CFM_SLF-HD1 x Length Required	US32D	PE
1	Exit Device (storeroom)	16 43 AD8504 862	US32D	SA
1	Cylinder	as required to match existing key system,	US26D	OT
1	Surface Closer	CPS7500	689	NO
1	Threshold	271A x Length Required x MSES25SS		PE
1	Gasketing	provided by door/frame manufacturer		OT
1	Sweep	3452CNB x Length Required		PE
1	Magnetic Lock	M62BD		SU
1	Motion Sensor	XMS		SU
1	Push Button	PB	630	SU
1	Card Reader	By Security Vendor		

Notes:
-Coordinate all hardware with the aluminum storefront manufacturer/supplier.
-Provide necessary drop plates and fillers for proper installation of door closers.
-Provide blocking rings in thickness as required to fill gap, if any, between cylinder head and face of door.

Set: 16
Door 107B
Existing Doors and Frame

Add:

1 Office Lockset	705L	US26D	SA
1 Surface Bolt	580	US26D	RO

END OF SECTION

CHATTANOOGA POLICE CRIME SCENE UNIT
RENOVATION P-20-003-201

ANNEX FACILITY
3204 AMNICOLA HIGHWAY
CHATTANOOGA, TENNESSEE

GRAPHIC SYMBOLS:

- DETAIL NO. / SHEET NO. (A / A-1) — SECTION
- DETAIL NO. (A5.1 / A-1) — SHEET NO.
- NEW ELEVATION
- EXISTING ELEVATION
- (A / A-1) — DETAIL INDICATOR
- (1) — REVISION NUMBER
- (A) — WINDOW TYPE
- (1) — DOOR NO.

CITY OF CHATTANOOGA

MAYOR:
ANDY BERKE

CITY COUNCIL
DISTRICT 1 – CHIP HENDERSON, CHAIR
DISTRICT 2 – JERRY MITCHELL
DISTRICT 3 – KEN SMITH, VICE CHAIR
DISTRICT 4 – DARRIN LEDFORD
DISTRICT 5 – RUSSELL GILBERT, SR.
DISTRICT 6 – CAROL B. BERZ
DISTRICT 7 – ERSKINE OGLESBY, JR.
DISTRICT 8 – ANTHONY BYRD
DISTRICT 9 – DEMETRUS COONROD

DEPARTMENT OF PUBLIC WORKS
ADMINISTRATOR:
JUSTIN C. HOLLAND

APPROVED FOR RELEASE

_____
WILLIAM C. PAYNE, P.E.
CITY ENGINEER

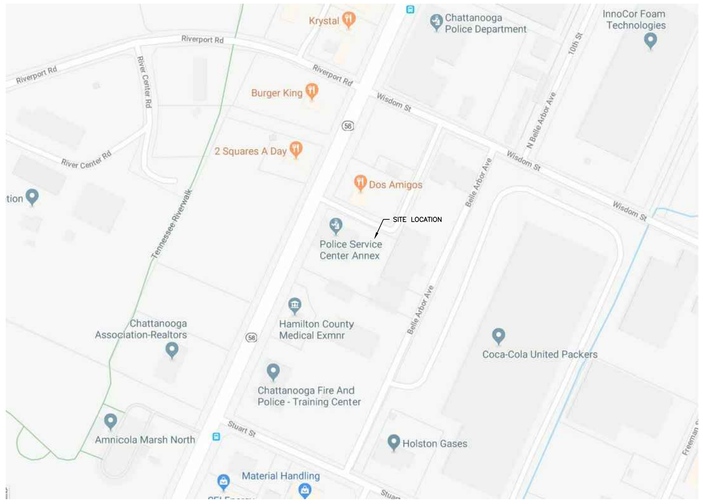
_____
DATE

STEVEN D. BILLINGSLEY — REGISTERED ARCHITECT — No. 19911 — State of Tennessee

PROJECT #20-15
JUNE 22, 2020

BILLINGSLEY
ARCHITECTURE
Planning / Architecture / Interiors

Republic Centre . Suite 800 . 633 Chestnut Street . Chattanooga, Tennessee . 37450
(423) 752-0030 . billarch.com



VICINITY MAP

MATERIALS:

- EARTH
- POROUS FILL
- BRICK
- CONCRETE MASONRY UNIT
- PLYWOOD
- CONTINUOUS WOOD FAMING
- WOOD BLOCKING
- FINISHED WOOD
- INSULATION –BATT
- INSULATION – RIGID
- METAL
- CONCRETE

STANDARD ABBREVIATIONS:

A.F.F. – ABOVE FINISHED FLOOR
CPT. – CARPET
CMU – CONCRETE MASONRY UNIT
COL. – COLUMN
CONT. – CONTINUOUS
DWG. – DRAWING
E.W.C. – ELECTRIC WATER COOLER
F.O.S. – FACE OF STUD
F.F.E. – FINISH FLOOR ELEVATION
F.E. – FIRE EXTINGUISHER
F.E.C. – FIRE EXTINGUISHER CABINET
F.D. – FLOOR DRAIN
FTG. – FOOTING
GA. – GAUGE
G.B. OR GYP. BD. – GYPSUM WALLBOARD
HD'WE – HARDWARE
H.M. – HOLLOW METAL
M.O. – MASONRY OPENING
MTL. – METAL
N.I.C. – NOT IN CONTRACT
N.T.S. – NOT TO SCALE
OPN'G. – OPENING
PT'D. – PAINTED
R. – RADIUS
R.D. – ROOF DRAIN
RM. – ROOM
SPECS. – SPECIFICATIONS
S.S. – STAINLESS STEEL
T. & G. – TONGUE AND GROOVE
TYP. – TYPICAL
V.C.T. – VINYL COMPOSITION TILE
V.W.C. – VINYL WALL COVERING
W.W.F. – WELDED WIRE FABRIC
WD. – WOOD

LIST OF DESIGNERS:

ARCHITECTURAL

BILLINGSLEY/ARCHITECTURE
REPUBLIC CENTRE, SUITE 800
633 CHESTNUT STREET
CHATTANOOGA, TENNESSEE 37450
(423)752-0030

STRUCTURAL

BACE ENGINEERING
655 WALNUT STREET
CHATTANOOGA, TENNESSEE
37402
(423)771-4430

MEP

SMITH ENGINEERING
103 JORDAN DRIVE, SUITE 1
CHATTANOOGA, TENNESSEE
37421
(423)499-9532

PROJECT INFORMATION:

2012 INTERNATIONAL BUILDING CODE
2012 INTERNATIONAL PLUMBING CODE
2012 INTERNATIONAL FUEL GAS CODE
2012 INTERNATIONAL MECHANICAL CODE
2012 INTERNATIONAL FIRE CODE
2017 NATIONAL ELECTRICAL CODE
2012 INTERNATIONAL ENERGY CONSERVATION CODE
2009 ANSI A–117.1 HANDICAP CODE

1. OCCUPANCY: BUSINESS (IBC 304.1) – GROUP B – LIMITED REMODEL
2. TYPE OF BUILDING CONSTRUCTION: EXISTING – TYPE IIIB UNSPRINKLERED
3. NUMBER OF STORIES: 2
4. NUMBER OF STORIES AFFECTED: 1
5. NUMBER OF STORIES ALLOWED (IBC TABLE 503): 3
6. TOTAL AREA OF EXISTING BUILDING: 15,465 S.F.
7. ALLOWABLE BUILDING AREA (IBC TABLE 503): 19,000
8. AREA OF WORK: 10,066 S.F.
9. OCCUPANT LOAD (IBC TABLE 1004.1.2): 10,066 S.F./100 = 101 PEOPLE
10. EGRESS WIDTH REQUIRED: (IBC 1005.3.2): (101 PEOPLE) x (0.2") = 20.2"
11. EGRESS WIDTH PROVIDED: 108"
12. NUMBER OF EXITS REQUIRED (IBC 1015.1): 2
13. NUMBER OF EXITS PROVIDED: 3
14. FIRE DISTRICT: YES
15. RESPONDING FIRE DEPT.: CITY OF CHATTANOOGA FIRE DEPT.
16. SPECIAL REQUIREMENTS PER IBC CHAPTER 4: NONE

NOTE:
PARKING, STORM WATER & LANDSCAPING SHOULD NOT BE AFFECTED BY THIS PROJECT.

INDEX OF DRAWINGS:

FINISH MATERIALS & LEGEND

KEY	DESCRIPTION	MANUFACTURER	PRODUCT INFORMATION	SIZE/FINISH	NOTES
	WALLS				
P-1	CEILING PAINT	SHERWIN-WILLIAMS	COLOR - SW7007 CEILING BRITE WHITE FLAT	FLAT	-
P-2	WALL PAINT	SHERWIN-WILLIAMS	COLOR - SW7652 ICE CUBE	SATIN	
P-3	WALL PAINT	SHERWIN-WILLIAMS	COLOR - SW6521 NOTABLE HUE	SATIN	
P-4	WALL PAINT	SHERWIN-WILLIAMS	COLOR - SW7036 ACCES GRAY	SATIN	
P-5	WALL PAINT	SHERWIN-WILLIAMS	COLOR - SW7086 GRAY MATTERS	GLOSS	
RB-1	RUBBER BASE	FLEXCO	#25 LIGHT GRAY	4"	
MT-1	MEDICAL FLOORING	ARMSTRONG	MEDINTECH #86419 SILVER GRAY	SHEET	-
LVT-1	LUXURY VINYL TILE	ADORE/NATURELLE	WIDE PLANKS #DVN-1402 FADED BARNSIDE	7.2" X 37.4"	1/3 STAGGERED INSTALL
VCT-1	VINYL COMPISITION TILE	AZROCK	V-210 OATS	12" X 12"	CHECKERBOARD 24" X 24" CENTERED
T-1	PORCELAIN FLOOR TILE	PORTOBELLO AMERICA	TRILLO OLIVE 12X24 NAT BOLD #718525ET	12" X 24"	
WT-1	WALL TILE	PORTOBELLO AMERICA	KREA VANILLA 4X16 GLOSSY BOLD #249855E	4" X 16"	SCHLUTER TRANSITION AT FLR & WALL
G-1	GROUT	TEC	#125 SABLE	1/8" GROUT JOINT	
RST	RUBBER STAIR TREAD	FLEXCO	#25 LIGHT GRAY, SERIES 120		
FRP	FIBERGLASS REINFORCED PANEL	NUDO	NU-FIBER SKIN #LP-F3, COLOR: KAHAKI #203	PEBBLED	
PL-1	PLASTIC LAMINATE (DOORS & DRAWERS)	WILSONART	#1854-38 NATURAL RIFT		
PL-2	PLASTIC LAMINATE (BREAK RM COUNTER)	WILSONART	#4814-60 TUNGSTEN EV	-	
PL-3	PLASTIC LAMINATE (CAB. INTERIORS)	WILSONART	#421-60 LINEN	-	
SS-1	SOLID SURFACE	SAMSUNG	STARON, #SC475, SANDED CLAY	-	

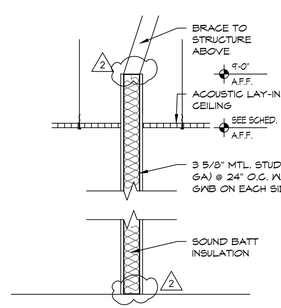
NOTE: AT PORCELAIN TILE INSTALLATION INSTALL SCHLUTER: FLOOR TO WALL- DILEX - AHK-DB, WALL OUTSITED CORNERS - RONDEC - DB

FINISH SCHEDULE

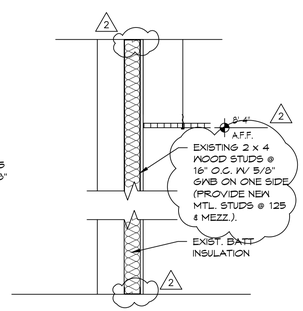
SPACE NO.	SPACE NAME	FLOOR MATERIAL	BASE MATERIAL	WALLS NORTH MAT'L.	WALLS SOUTH MAT'L.	WALLS EAST MAT'L.	WALLS WEST MAT'L.	CEILING HT.	CEILING MAT'L.	REMARKS
100	ENTRY	LVT-1	RB-1	P-2	P-2	P-2	P-3	8'-4"	A.C.T.	-
101	SECURITY AREA	LVT-1	RB-1	P-3	P-2	P-2	P-2	8'-4"	A.C.T.	-
102	PUBLIC RESTROOM	T-1	TB-1	WT-1	P-2	WT-1	P-2	8'-0"	A.C.T.	-
103	HALL	LVT-1	RB-1	P-2	P-2	P-2	P-3	8'-4"	A.C.T.	-
104	OFFICE AREA	LVT-1	RB-1	P-2	P-3	P-2	P-2	8' - 0"	A.C.T.	-
105	ELEVATOR MECH.	-	-	-	-	-	-	-	-	NO WORK
106	DARK ROOM	LVT-1	RB-1	P-2	P-2	P-2	P-2	8'-4"	A.C.T.	-
107	BREAK ROOM	LVT-1	RB-1	P-2	P-2	P-4	P-2	OPEN	-	NO WORK
108	PHOTO LAB	RELOCATED	RB-1	P-3	P-2	P-2	P-2	8'-4"	A.C.T.	-
109	LEICA ROOM	RELOCATED	RB-1	P-2	P-2	-	P-2	8'-0"	A.C.T.	-
110	OFFICE AREA	LVT-1	RB-1	P-2	P-2	P-3	P-2	8'-8"	A.C.T.	-
111	SARGEANT OFFICE	LVT-1	RB-1	P-2	P-2	P-4	P-2	8'-4"	A.C.T.	-
112	PACKAGING ROOM	LVT-1	RB-1	P-2	P-2	P-4	P-3	8' - 8"	ACT	
113	STORAGE CLOSET	LVT-1	RB-1	P-2	P-2	P-2	P-2	OPEN	P-1	-
114	BLOOD ROOM	MT-1	RB-1	P-2	P-2	P-2	P-2	8'-4"	ACT	-
115	STAIR	RT-1	RB-1	P-2	P-2	P-2	P-2	OPEN	-	-
116	EVIDENCE VAULT	LVT-1	RB-1	P-2	P-2	P-2	P-2	8'-0"	A.C.T.	-
117	VEHICLE/GP BAY	CONCRETE	RB-1	P-2	P-2	P-2	P-2	OPEN TO ROOF DECK	P-1	-
120	LEICA ROOM	LVT-1	RB-1	P-2	P-2	-	P-2	8'-8"	A.C.T.	-
121	PHOTO LAB	LVT-1	RB-1	P-3	P-2	P-2	P-2	8'-4"	A.C.T.	-
122	JANITOR CLOSET	CONCRETE	-	P-2	P-2	P-2	P-2	-	A.C.T.	MATCH EXIST. CEILING HEIGHT
124	CHEMICAL STORAGE	LVT-1	RB-1	P-2	P-2	P-2	P-2	8'-4"	A.C.T.	MAX. CLG. HEIGHT POSSIBLE
125	LAB	LVT-1	RB-1	P-2	P-2	P-2	P-3	8'-4"	A.C.T.	MAX. CLG. HEIGHT POSSIBLE
126	EXIST. CORR.	LVT-1	RB-1	P-2	P-2	P-2	P-2	-	-	NEW LVT OVER EXIST. PNT, WALLS & TRIM
127	NEW CORRIDOR	LVT-1	RB-1	P-2	P-2	P-2	P-2	8'-4"	A.C.T.	MAX. CEILING HEIGHT POSSIBLE
128	IDF ROOM	CONCRETE	RB-1	P-2	P-2	P-2	P-2	OPEN	-	-
M01	MEZZ.	EXST. PLYWD.	GYP. BD.	GYPD. BD.	GYPD. BD.	GYPD. BD.	GYPD. BD.	OPEN	-	SEE NOTE 5.

NOTES:

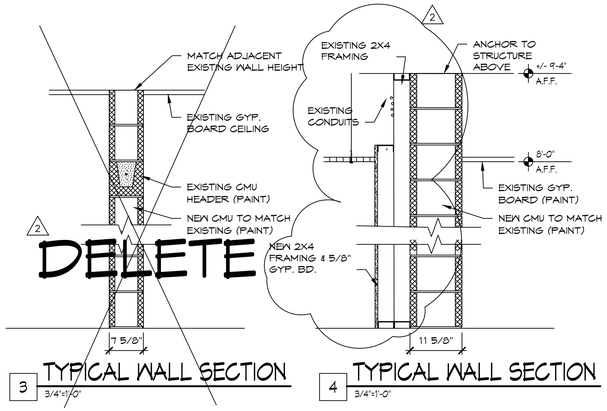
1. SEE FLOOR PLAN TO DIFFERENTIATE EXISTING WALL MATERIALS FROM NEW.
2. EXISTING WALL MATERIALS TO RECEIVE A NEW FINISH SHALL BE PROPERLY REPAIRED, PATCHED, MADE SMOOTH OR READY TO RECEIVE THE NEW FINISH PRIOR TO ITS APPLICATION.
3. NEW LVT & VCT MAY BE APPLIED OVER THE EXISTING FLOORING, PROVIDED THE EXISTING FLOOR IS SMOOTH AND PROPERLY BONDED TO THE SUBSTRATE.
4. WHEN INSTALLING NEW A.C.T. WHERE A.C.T PREVIOUSLY EXISTED, INSTALL NEW AT SAME HEIGHT A.F.F. AS PREVIOUS. WHEN INSTALLING NEW A.C.T. AT LOCATION THAT HAS NOT HAD A CEILING, INSTALL AS HIGH AS POSSIBLE.
5. GYBD. BOARD WALLS OF THE MEZZANINE SHALL BE TAPED & MUDDED, SANDED & PREPARED FOR PAINTED FINISH. WALLS TO RECEIVE ONE COAT OF PAINT PRIMER.



1 TYPICAL WALL SECTION
3/4"=1'-0"

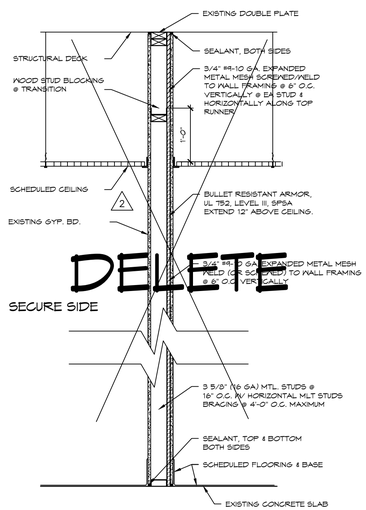


2 TYPICAL WALL SECTION
3/4"=1'-0"



3 TYPICAL WALL SECTION
3/4"=1'-0"

4 TYPICAL WALL SECTION
3/4"=1'-0"



5 TYPICAL WALL SECTION
1"=1'-0"

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CHATTANOOGA POLICE CRIME SCENE UNIT
RENOVATION P-20-003-201
ANNEX FACILITY
3204 AMNICOLA HIGHWAY
CHATTANOOGA, TENNESSEE

STEVEN D. BILLINGSLEY
REGISTERED ARCHITECT
No. 15911
State of Tennessee
6/22/2020

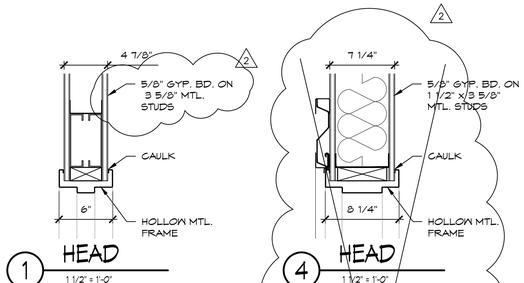
FINISH SCHED. AND WALL SECTIONS

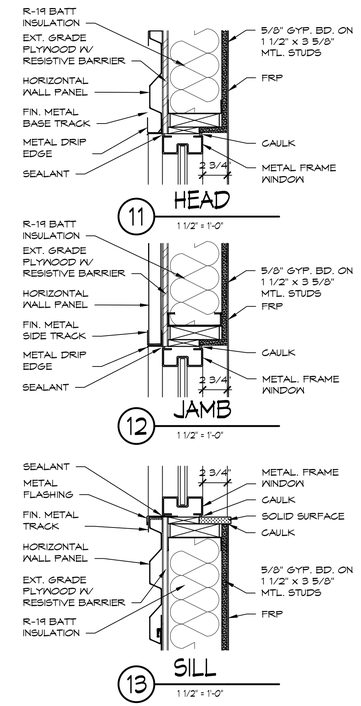
06/22/2020

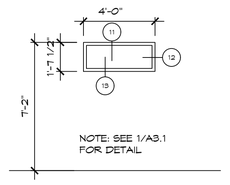
20-15

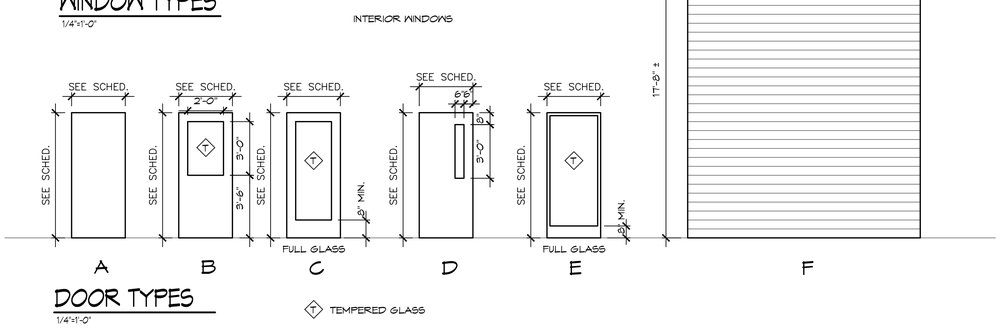
LJM, JCT

A2.2









DOOR AND FRAME SCHEDULE

	DOOR					FRAME								
NUMBER	SIZE	THICKNESS	MATERIAL	TYPE	OPNG. SIZE	MATL.	TYPE	HEAD	JAMB	SILL	RATING	HDWE SET	REMARKS
100	3'-0" x 7'-0"	1 3/4"	H.M./GL.	B	3'-0" x 7'-0"	EXIST.	EXIST.	-	-	-	-	1	EXISTING METAL FRAME TO BE PAINTED. BONDO EXISTING FRAME AS REQUIRED. NEW DOOR & HRDWE.
101	3'-0" x 7'-0"	1 3/4"	WD./GL.	D	3'-0" x 7'-0"	H.M.	A	1	2	3	-	2	
102	3'-0" x 7'-0"	1 3/4"	S.C. WD.	A	3'-0" x 7'-0"	H.M.	A	1	2	3	-	3	-
103A	3'-0" x 7'-0"	1 3/4"	WD./GL.	D	3'-0" x 7'-0"	H.M.	A		2	3	-	4	-
103B,C	3'-0" x 7'-0"	1 3/4"	H.M.	D	3'-7"	H.M.	A	-	-	-	-	4	~~PAINT EXISTING DOOR & FRAME~~
104	3'-0" x 7'-0"	1 3/4"	S.C. WD./GL.	D	3'-0" x 7'-0"	H.M.	A	1	2	3	-	4	-
105	EXISTING	-	-	-	EXISTING	-	-	-	-	-	-	5	PAINT EXISTING DOOR FRAME
106	3'-0" x 7'-0"	1 3/4"	WD./S.C.	A	3'-0" x 7'-0"	H.M.	A	1	2	3	-	12	-
107	3'-0" x 7'-0"	1 3/4"	S.C. WD./GL.	D	3'-0" x 7'-0"	H.M.	A	1	2	3	-	6	-
107B	EXISTING	-	-	-	-	-	-	-	-	-	-	-	-
108	~~DELETE~~ 3'-0" x 7'-0"	1 3/4"	WD./GL.	B	3'-0" x 7'-0"	H.M.	A	1	2	3	-	7	-
108B	~~DELETE~~ 5'-0" x 7'-0"	1 3/4"	S.C. WD.	A	5'-0" x 7'-0"	H.M.	A	1	2	3	-	14	-
110	~~DELETE~~ 3'-0" x 7'-0"	1 3/4"	WD./GL.	D	3'-0" x 7'-0"	H.M.	A	1	2	3	-	10	-
111	3'-0" x 7'-0"	1 3/4"	WD./GL.	D	3'-0" x 7'-0"	H.M.	A	1	2	3	-	7	-
111B	3'-0" x 7'-0"	1 3/4"	S.C. WD.	D	3'-6" x 7'-0"	H.M.	A	1	2	3	-	9	-
113	3'-0" x 7'-0"	1 3/4"	H.M.	A	3'-0" x 7'-0" EXIST.	H.M.	A	7	8	9	-	13	VERIFY THE SIZE OF EXISTING OPENING
114	3'-0" x 7'-0"	1 3/4"	S.C. WD.	A	3'-0" x 7'-0" EXIST.		-	-	-	-	-	8	-
115	~~DELETE~~ 3'-0" x 7'-0"	1 3/4"	WD./GL.	C	3'-0" x 7'-0"	H.M.	A	1	2	3	-	2	-
116	3'-0" x 7'-0"	1 3/4"	H.M.	A	3'-0" x 7'-0"	H.M.	A	1	2	3	-	10	-
117A	3'-0" x 7'-0"	1 3/4"	S.C. WD.	D	3'-0" x 7'-0"	H.M.	A	7	8	9	-	8	-
117B	14'-3" x 11'-8", VERIFY	24 GA.	MTL.	F	14'-3" x 11'-8", VERIFY	-	-	-	10	-	-	11	NEW INSULATED ROLL-UP DOOR
119	3'-0" x 7'-0"	1 3/4"	WD./GL.	D	3'-0" x 7'-0"	H.M.	A	1	2	3	-	8	-
121	3'-0" x 7'-0"	1 3/4"	S.C. WD.	A	3'-0" x 7'-0"	H.M.	A	1	2	3	-	12	-
122	~~DELETE~~ 3'-0" x 7'-0"	1 3/4"	S.C. WD.	A	3'-0" x 7'-0"	H.M.	A	1	2	3	-	12	-
123	2'-6" x 7'-0" VERIFY	1 3/4"	S.C. WD.	A	EXISTING	H.M.	A	1	2	3	-	13	NEW DOOR & HRDWE. IN EXIST. FRAME
125	3'-0" x 7'-0"	1 3/4"	WD./GL.	B	3'-0" x 7'-0"	H.M.	A	1	2	3	-	8	-
125B	(2) 2'-6" x 7'-0"	1 3/4"	S.C. WD.	A	5'-0" X 7'-0"	H.M.	A	1	2	3	-	14	-
126	3'-0" x 7'-0"	1 3/4"	WD./GL.	D	3'-0" x 7'-0"	H.M.	A	1	2	3	-	8	-
127	3'-0" x 7'-0"	1 3/4"	AL./GL.	E	3'-0" x 7'-0"	ALUM.	A	11	12	13	-	15	-
128	3'-0" x 7'-0"	1 3/4"	H.M./GL.	B	3'-0" x 7'-0"	H.M.	A	1	2	3	-	6	-
201	3'-0" x 7'-0"	1 3/4"	H.M./GL.	B	3'-0" x 7'-0"	H.M.	A	1	2	3	-	10	-

REVISION
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ARCHITECTURE
No. 15911
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6/22/2020

SCHEDULES & DETAILS

06/22/2020

20-15

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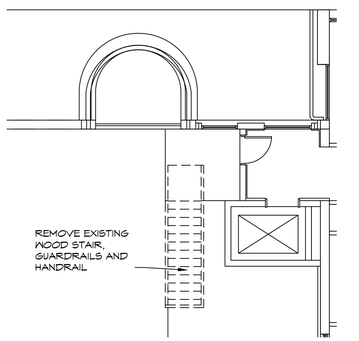
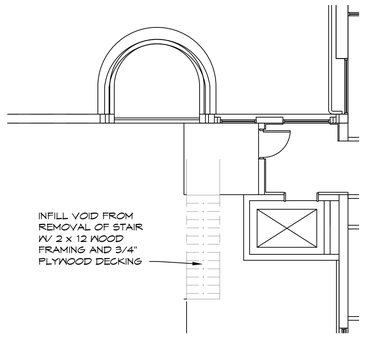
A2.3



NORTH STAIR DEMOLITION PLAN

1/8"=1'-0"

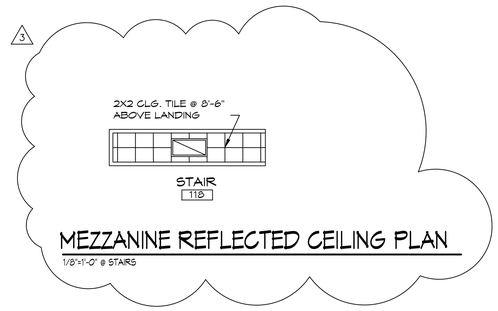
NORTH



NORTH SIDE FRAMING PLAN

1/8"=1'-0"

NORTH



MEZZANINE REFLECTED CEILING PLAN

1/8"=1'-0" @ STAIRS

WALL LEGEND

EXISTING STRUCTURE TO BE REMOVED

EXISTING STRUCTURE TO REMAIN

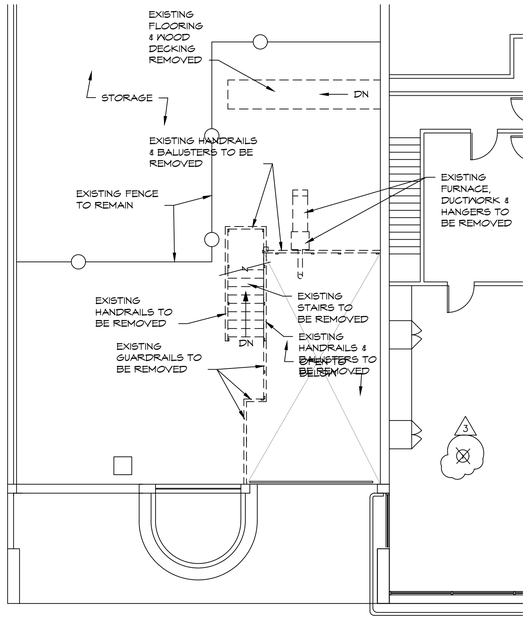
NEW WALL - 5/8" GYP. BOARD EA. SIDE 2 x 4 WOOD STUDS @ 16" O.C. W/ R-11 BATT INSULATION IN STUD VOIDS. SEAL TIGHT TO BOTTOM OF ROOF DECK.

FRAMING LEGEND

NEW 2x JOIST

EXISTING JOIST

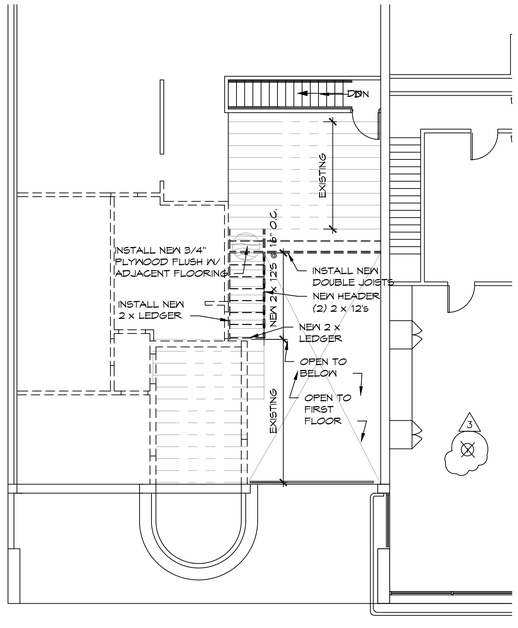
NOTE:
1. ACCESS TO AREA INSIDE THE EXISTING CHAIN LINK FENCING WILL BE VERY LIMITED AND WILL BE MONITORED. COORDINATION WITH OWNER IS REQUIRED. EXISTING FENCE IS CONNECTED TO SECURITY SYSTEM.



MEZZANINE DEMOLITION PLAN

1/8"=1'-0"

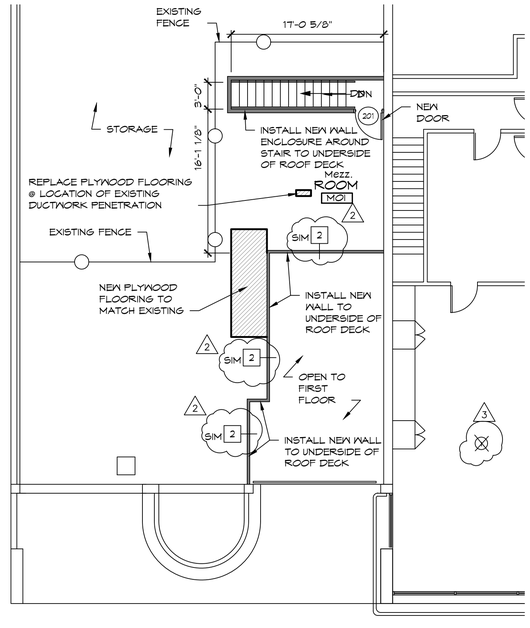
NORTH



MEZZANINE FRAMING PLAN

1/8"=1'-0"

NORTH



MEZZANINE FLOOR PLAN

1/8"=1'-0"

NORTH

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MEZZANINE PLANS

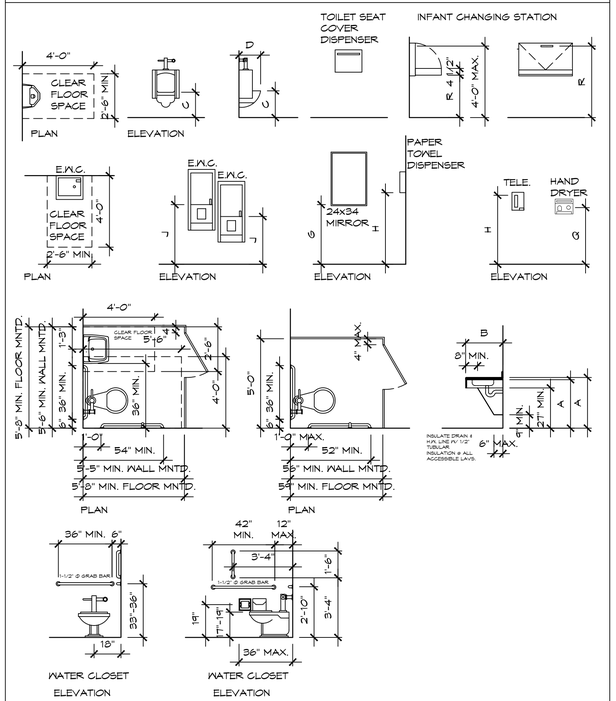
06/22/2020

20-15

LJM

A2.4

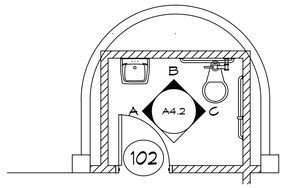
PLUMBING FIXTURES AND ACCESSORIES MOUNTING SCHEDULE ACCESSIBILITY CODE



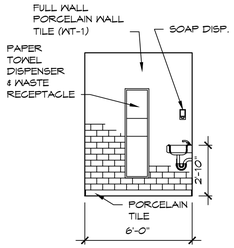
GENERAL NOTES: RESTROOMS

1. GRAB BARS AND HANDRAILS ARE 1-1/4" TO 1-1/2" DIAMETER, 1-1/2" FROM WALL. REFER TO FLOOR PLAN FOR LOCATION GRAB BARS. REF. DIAGRAM ABOVE FOR GRAB BAR DIMENSIONS.
2. ALL TOILETS STALLS TO HAVE ONE TOILET PAPER DISPENSER W/ BLOCKING IN WALL AS REQUIRED FOR INSTALLATION.
3. VERIFY THAT WOMENS TOILET STALLS HAVE ONE FEMININE NAPKIN DISPOSAL UNIT. MOUNT IN FRONT OF TOILET PAPER DISPENSER IF NOT PRESENT. PROVIDE BLOCKING AS REQ'D (SHOULD NOT INTERFERE WITH GRAB BARS.)
4. WHERE ONLY ONE DISPENSER OF ANY TYPE IS PROVIDED MOUNT AT ACCESSIBLE HEIGHT.
5. ALL CONSTRUCTION AND MOUNTING HEIGHTS SHALL COMPLY WITH ALL APPLICABLE CITY AND STATE ACCESSIBILITY REGULATIONS AS WELL AS THE FEDERAL ADA REGULATIONS, REFER QUESTIONABLE MOUNTING HEIGHTS TO THE ARCHITECT FOR FINAL DECISIONS.
6. NOT ALL ACCESSORIES MAY BE USED, REFER TO TOILET ACCESSORIES SCHEDULE AND TOILET ROOM PLANS.

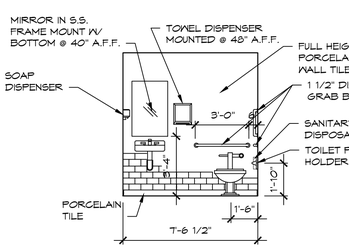
	FIXTURES/ACCESSORIES	HANDICAP MOUNTING HEIGHTS	STANDARD MOUNTING HEIGHTS	KIDS MOUNTING HEIGHTS
A	LAVATORIES - HEIGHTS TO BOTTOM OF APRON HEIGHT TO TOP OF RIM	29" MIN. 34" MAX.	32" 36"	26" 30"
B	LAVATORIES DEPTH FROM FINISHED WALL	17" MIN.	24"	17" MIN.
C	URINAL HEIGHT TO TOP OF RIM	17" MAX.	24"	----
D	URINAL - DEPTH FROM FINISHED WALL TO OUTER EDGE OF ELONGATED RIM	14" MIN.	19"	----
E	GRAB BARS HEIGHT TO TOP OF BAR	33"-36"	NO GRAB BARS	28"-30"
F	*WATER CLOSET, HT. OF BAR TO TOP OF SEAT	17"-19"	15"	14"-15"
G	MIRRORS, HEIGHT MAXIMUM TO BOTTOM EDGE OF REFLECTING SURFACE	40" MAX.	ALIGN W/ HC.	34"
H	CONTROLS & DISPENSERS, MAXIMUM TO CENTER LINE OF CONTROL DEVICE (TELEPHONES INCLUDED) FRONT APPROACH SIDE APPROACH	 48" MAX. 54" MAX.	 54" 54"	 42" 48"
J	DRINKING FOUNTAINS, MAXIMUM HEIGHT TO TOP OF SPOUT	36" MAX.	40"	32"
K	STAIR & RAMP HANDRAILS, TO TOPOF GRIPPING SURFACE ABOVE STAIR NOSINGS	34"-36"	30"-34"	----
L	FLUSH CONTROLS FOR WATER CLOSETS	44" MAX.	28"-34"	42" MAX.
M	TOILET PAPER DISPENSERS	19" MIN.	19"	14" MIN.
N	SANITARY NAPKIN DISPOSALS SHALL BE WITHIN REACH OF WATER CLOSET, BUT NOT TO INTERFERE WITH THE USE OF GRAB BARS.	19" MIN. 21" MAX.	19"	----
P	TOILET SEAT COVER DISPENSER TO TOP OF UNIT	50"	54"	44"
Q	HAND DRYER	38"	44"-46"	32"
R	INFANT CHANGING STATION HT. TO LATCH HEIGHT TO BOTTOM OF TABLE	48" MAX. 24" MIN.	50" 32"	----



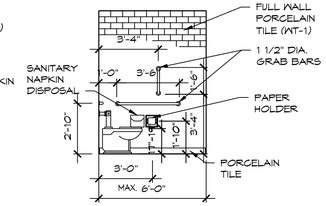
1 ENLARGED PLAN @ RESTROOM 102
1/4"=1'-0"



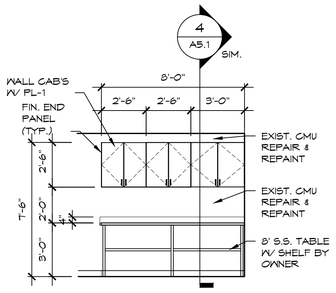
A INTERIOR ELEVATION
1/4"=1'-0"



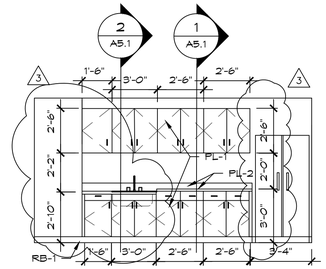
B INTERIOR ELEVATION
1/4"=1'-0"



C INTERIOR ELEVATION
1/4"=1'-0"



D INTERIOR ELEVATION
1/4"=1'-0"



E INTERIOR ELEVATION
1/4"=1'-0"

NOTES:

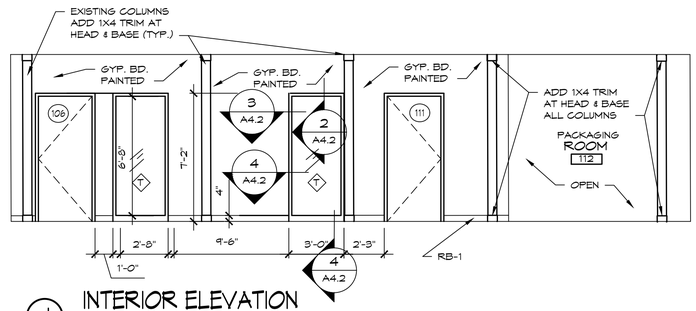
1). PROVIDE WOOD BLOCKING BETWEEN STUDS @ ALL TOILET ACCESSORIES & CABINETS.
2). HANDICAP GRAB BARS TO BE DESIGNED & INSTALLED TO SUPPORT 250 LB.
3). INSULATE WASTE LINE & WATER SUPPLY LINES.

TOILET ACCESSORIES:

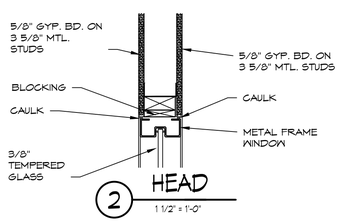
TA-8 DOOR HOOK
TA-9 SIGNAGE
#B-7671
PROVIDE A.D.A. DOOR SIGNS @ BOTH TOILET ROOMS. WALL MOUNT.

REFER TO SPECIFICATIONS FOR TOILET ACCESSORIES, SECTION 10 28 00.

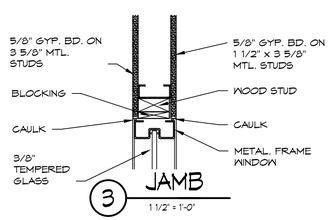
2



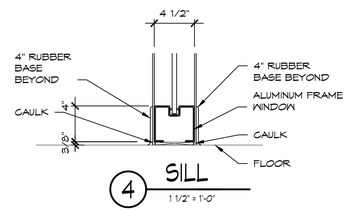
J INTERIOR ELEVATION
1/4"=1'-0"



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



3 JAMB
1 1/2" = 1'-0"



4 SILL
1 1/2" = 1'-0"

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ENLARGED PLANS & INT. ELEVATIONS

06/22/2020

20-15

SDB, IJM, JCT

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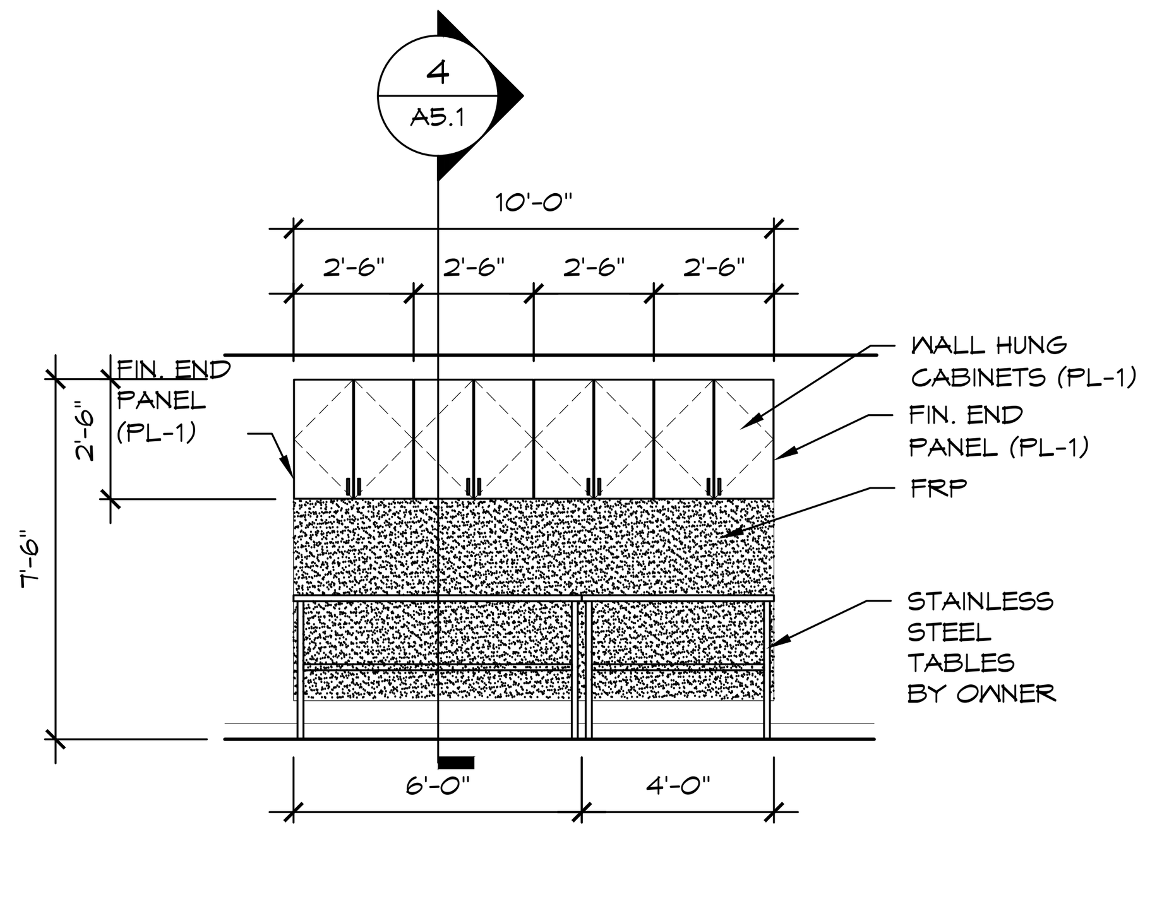
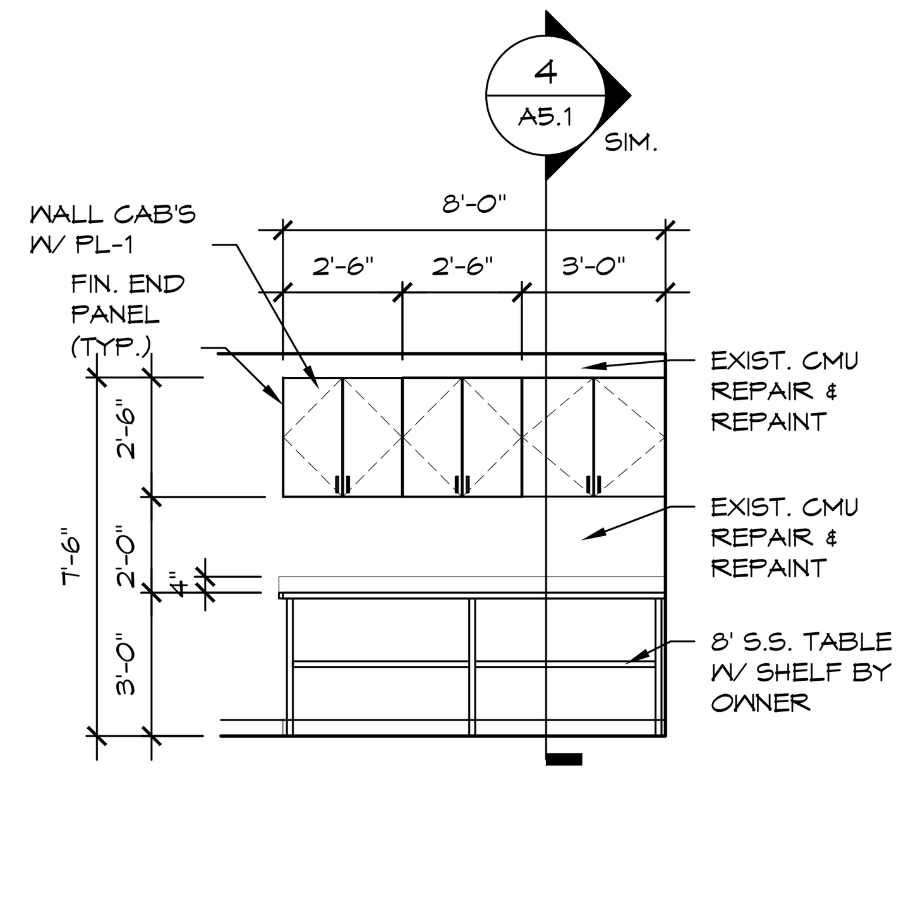
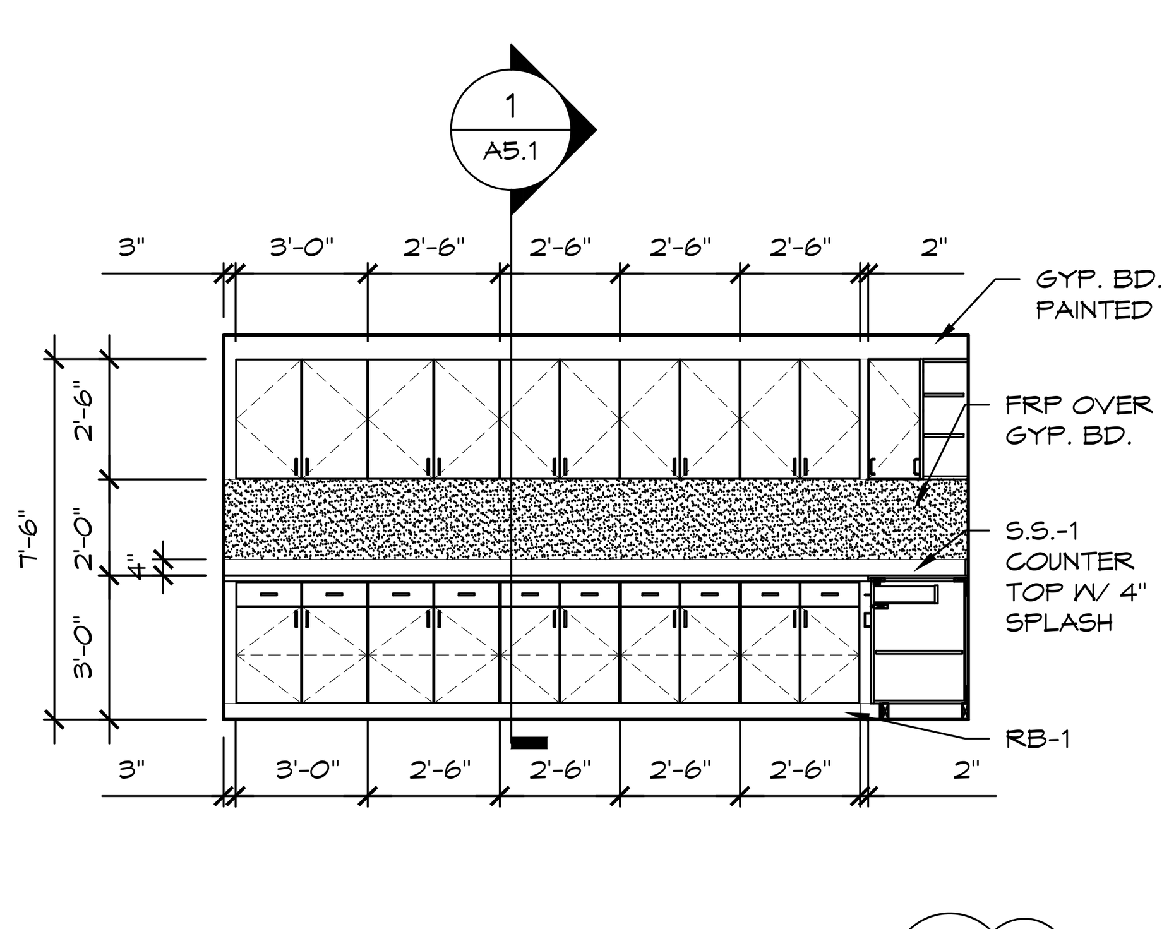
REVISION
3 8-24-2020 PRE-BID QUESTIONS



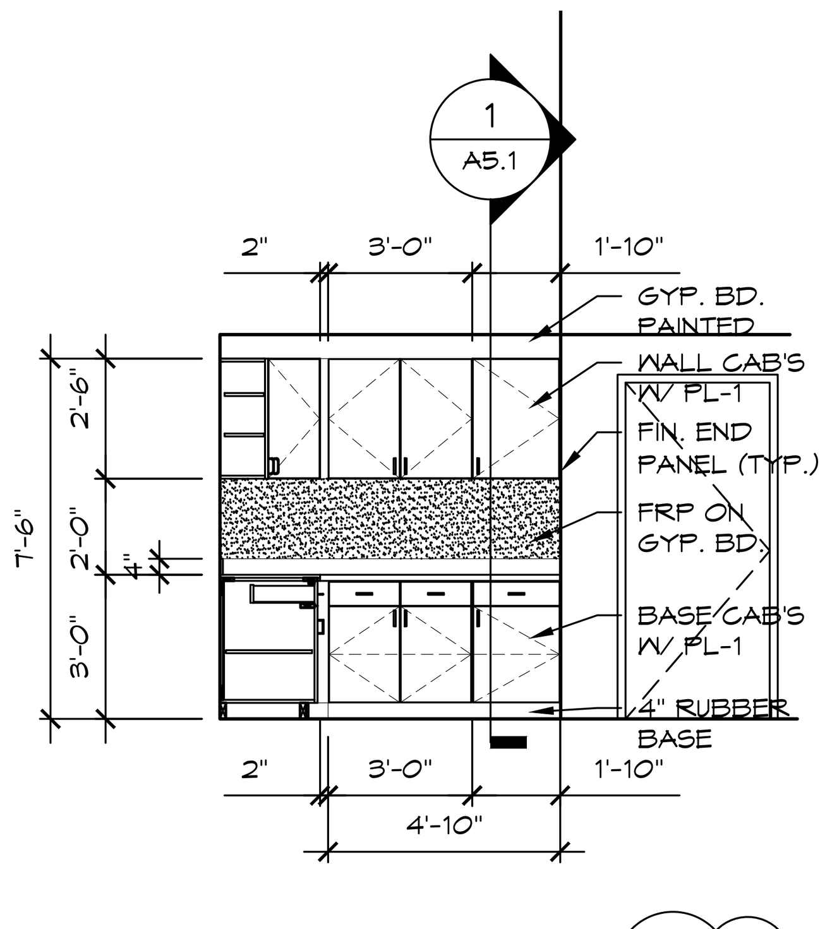
A INTERIOR ELEVATION @117
1/4"=1'-0"



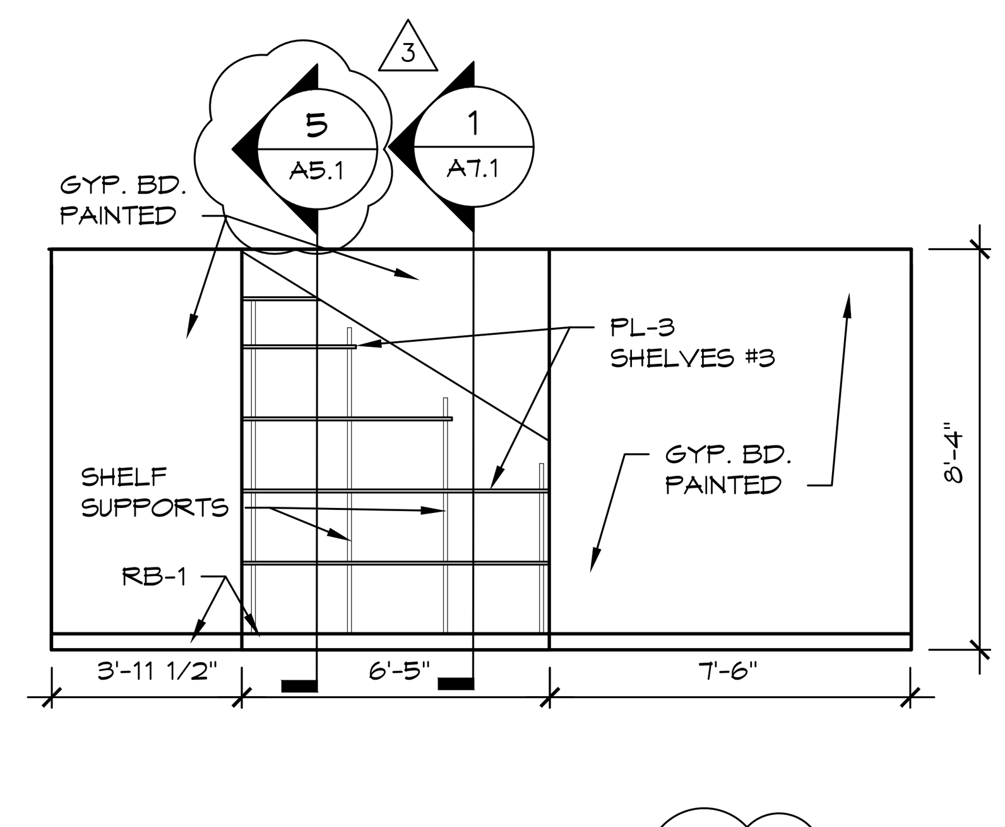
B INTERIOR ELEVATION @114
1/4"=1'-0"



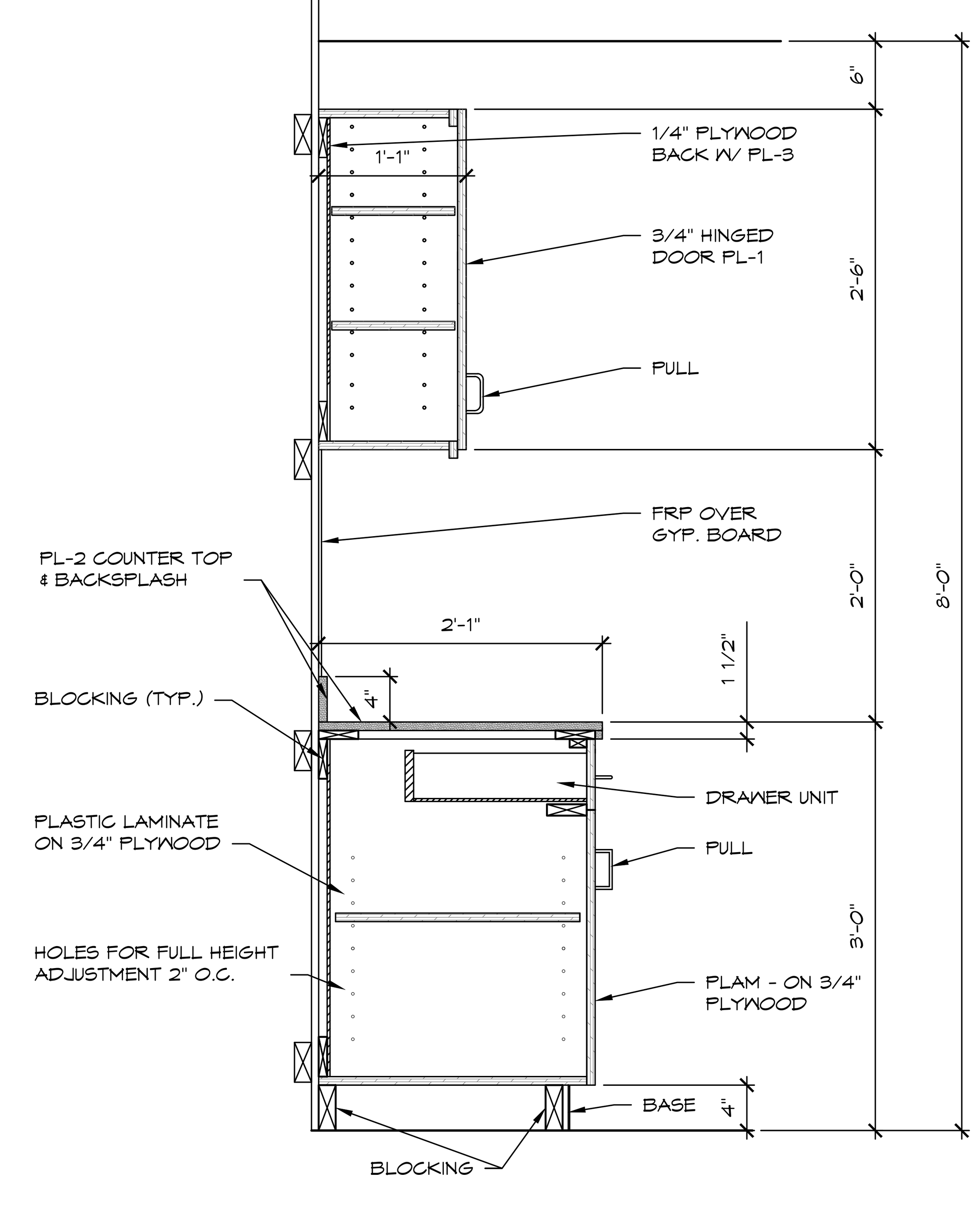
C INTERIOR ELEVATION @109 3
1/4"=1'-0"



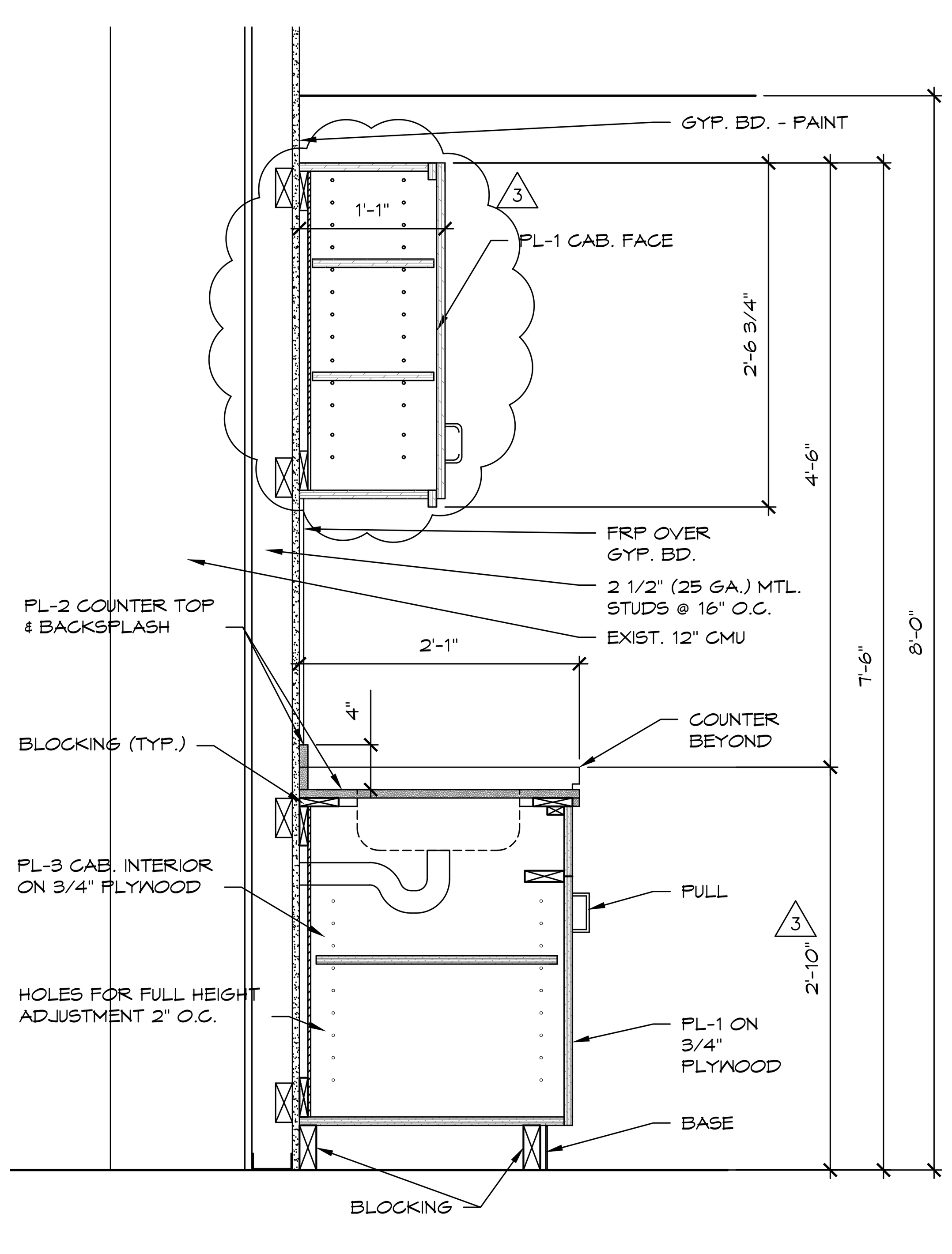
D INTERIOR ELEVATION @109 3
1/4"=1'-0"



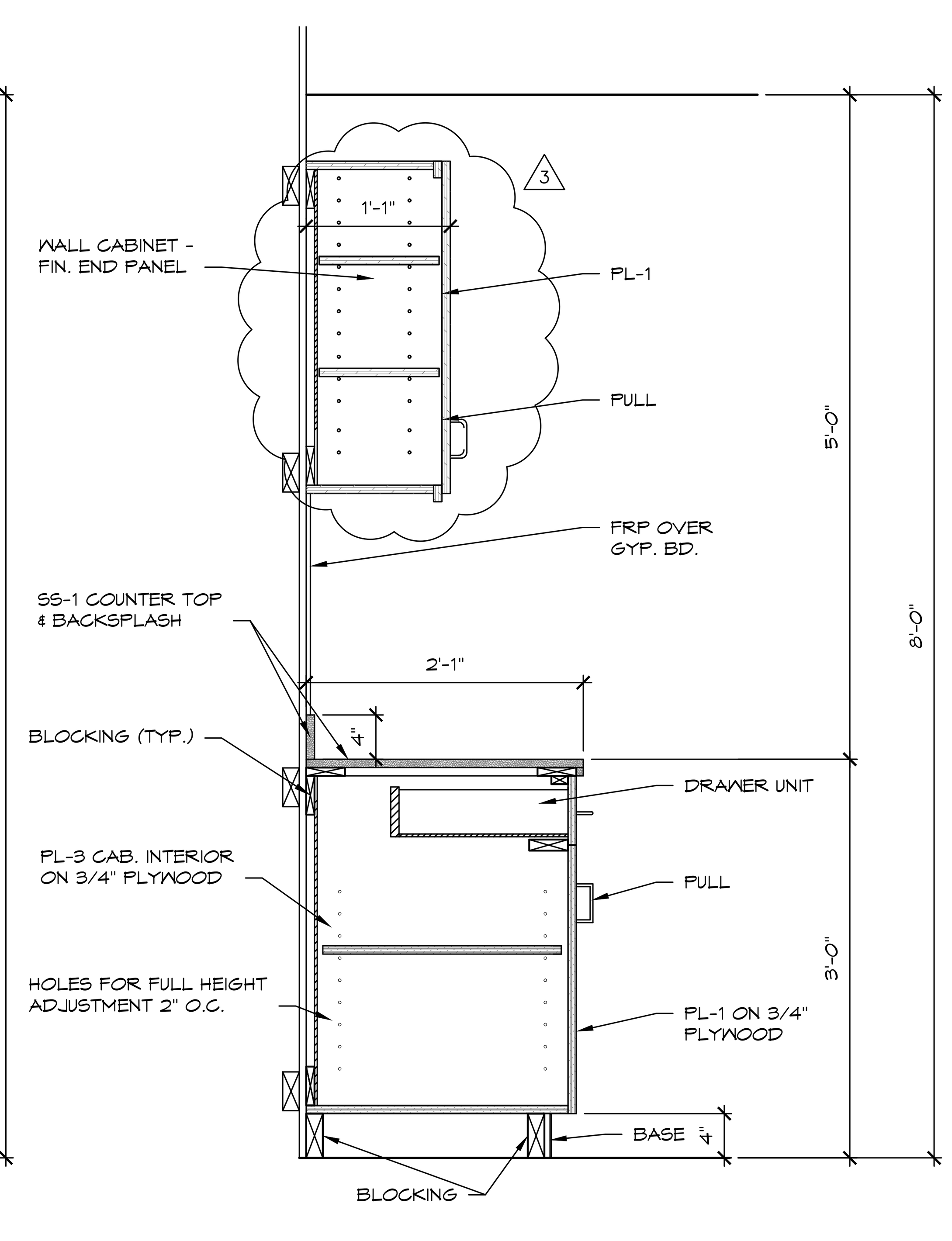
E INTERIOR ELEVATION @109 3
1/4"=1'-0"



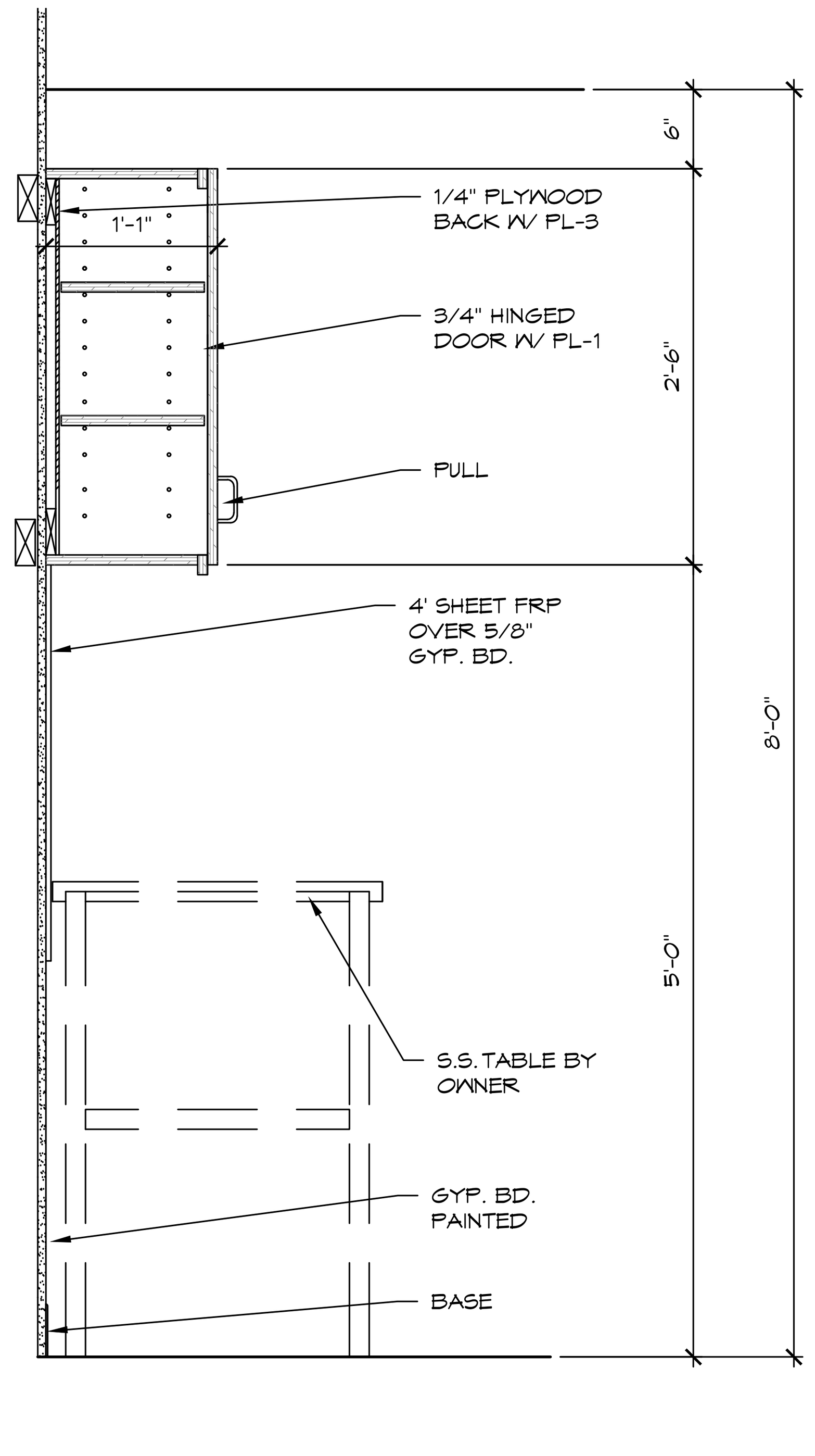
1 CABINET SECTION
1"=1'-0"



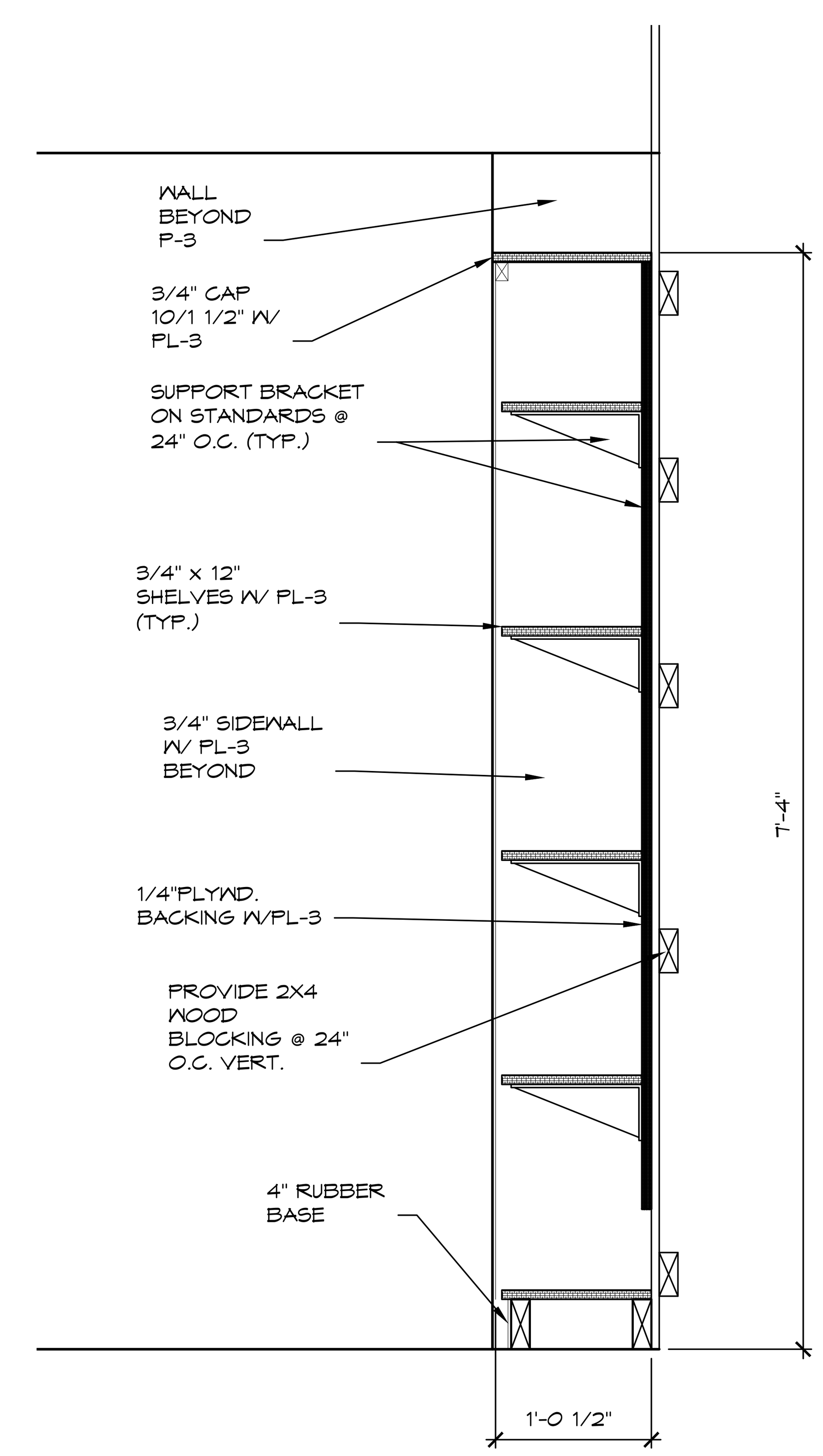
2 CABINET SECTION
1"=1'-0"



3 CABINET SECTION
1"=1'-0"



4 CABINET SECTION
1"=1'-0"



5 CABINET SECTION
1"=1'-0"

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CHATTANOOGA POLICE CRIME SCENE UNIT RENOVATION P-20-003-201
ANNEX FACILITY
3204 AMNICOLA HIGHWAY
CHATTANOOGA, TENNESSEE

STEVEN D. BILLINGSLEY
6-22-2020

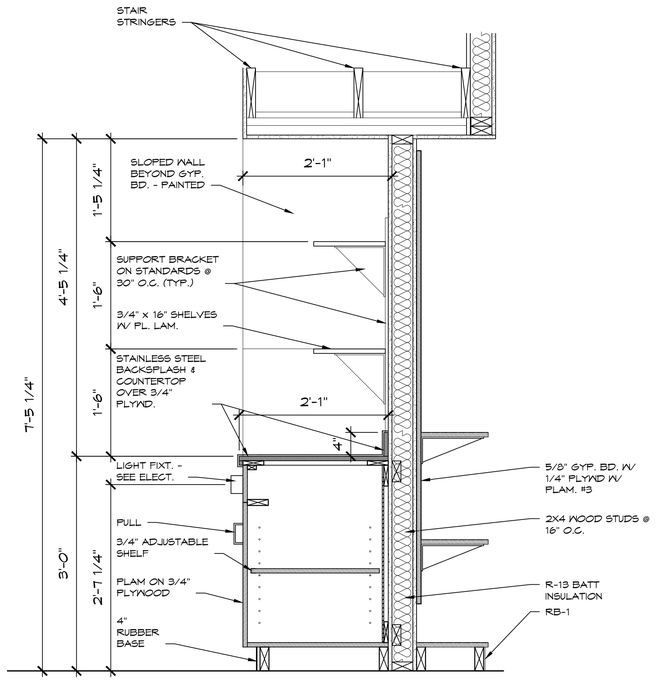
INTERIOR ELEVATIONS & MILWRK. SEC.

06/22/2020

20-15

IJM/JCT

A5.1

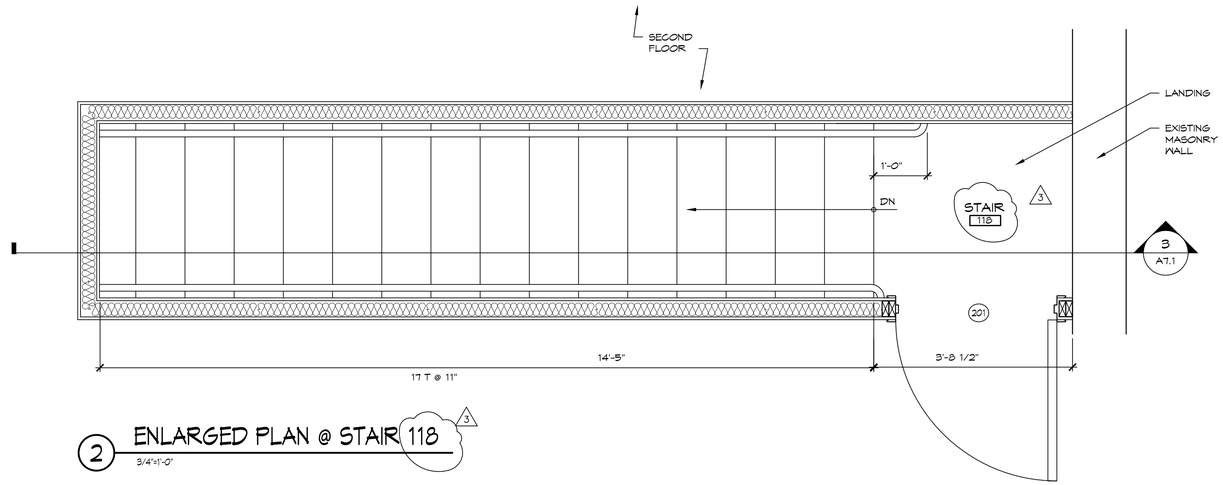


1 MILLWORK SECTION

3/4"=1'-0"

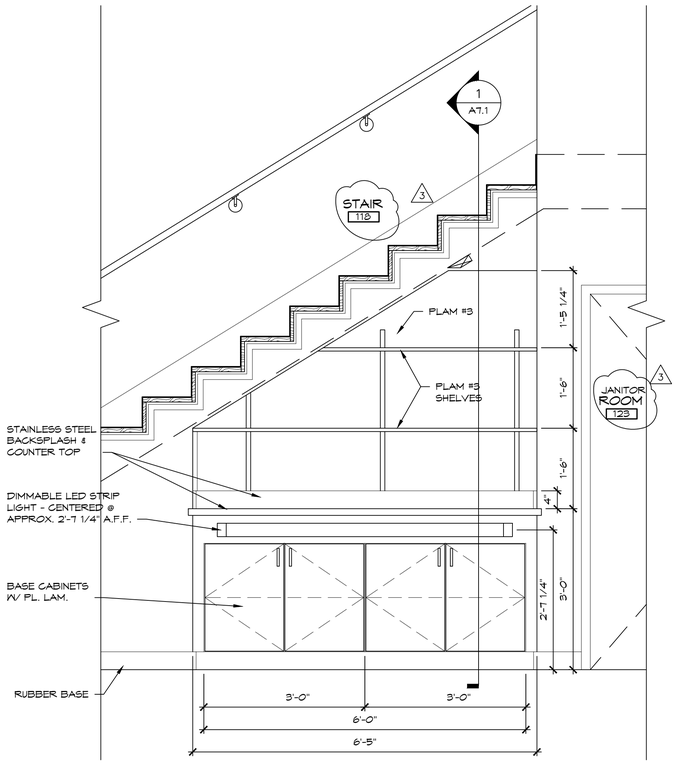
NOTES:

1. SEE 3/A7.1 FOR STAIR NOTES AND DIMENSIONS.
2. INTERIOR OF THIS UNIT TO BE MELAMINE OVER HIGH DENSITY MDF



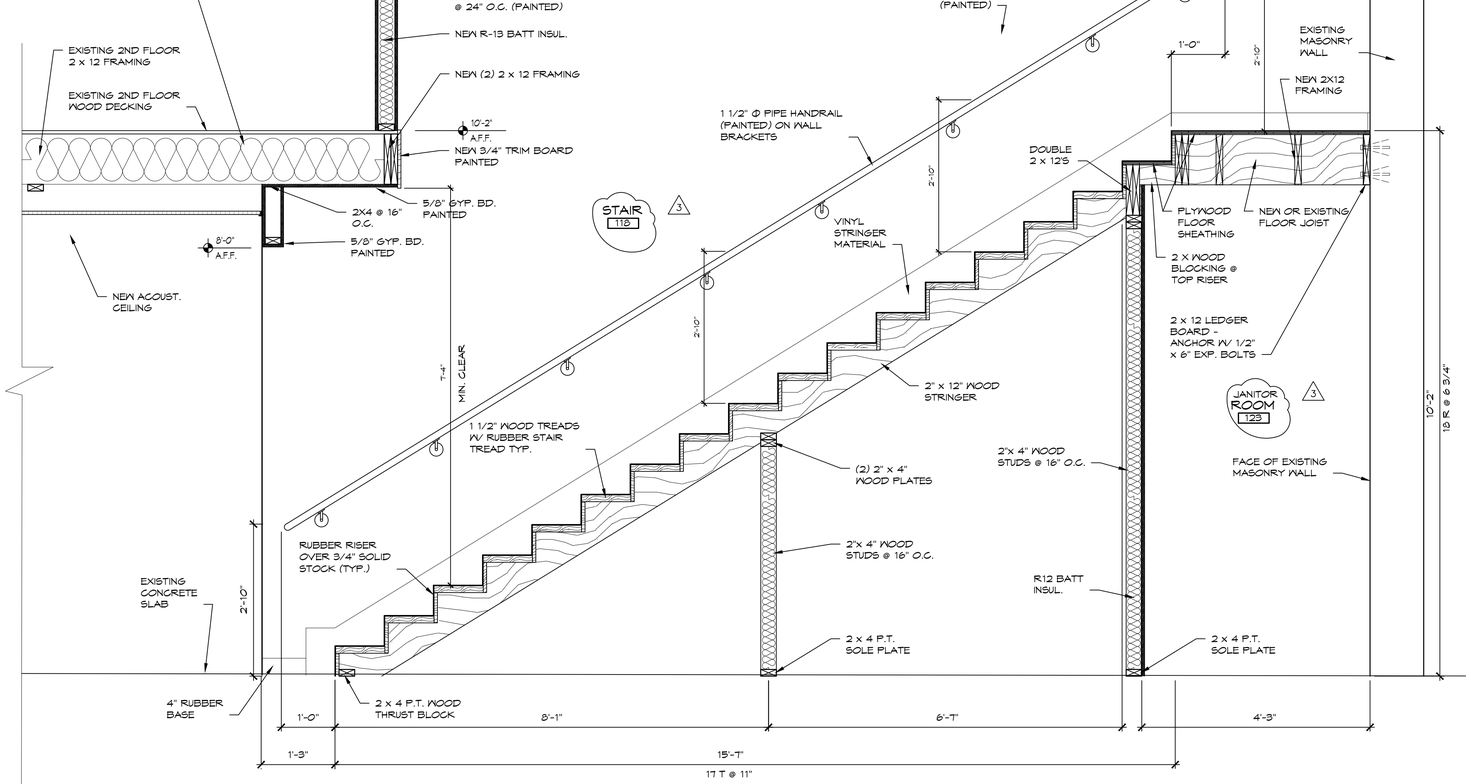
2 ENLARGED PLAN @ STAIR 118

3/4"=1'-0"



A INTERIOR ELEVATION @ STAIR 115

3/4"=1'-0"



3 SECTION @ STAIR 115

3/4"=1'-0"

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3 8-24-2020 PRE-BID QUESTIONS

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REGISTERED ARCHITECT
STATE OF TENNESSEE
No. 102731

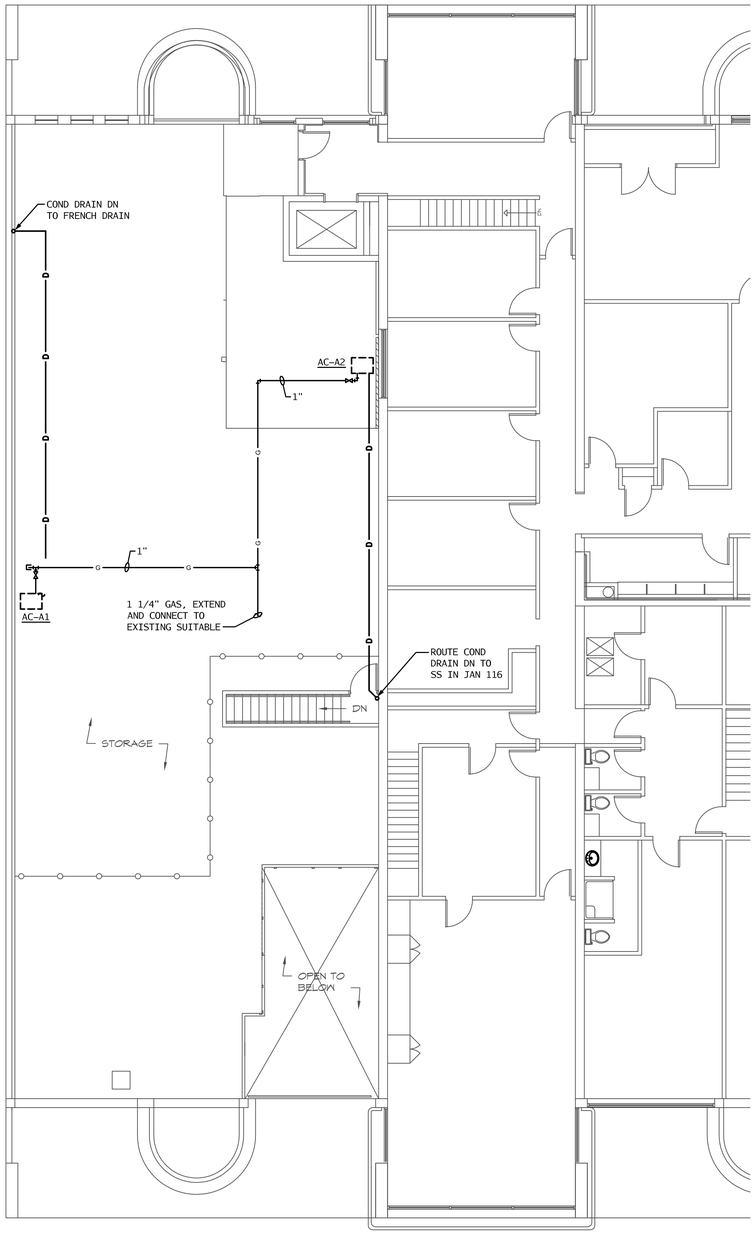
STAIR DETAILS

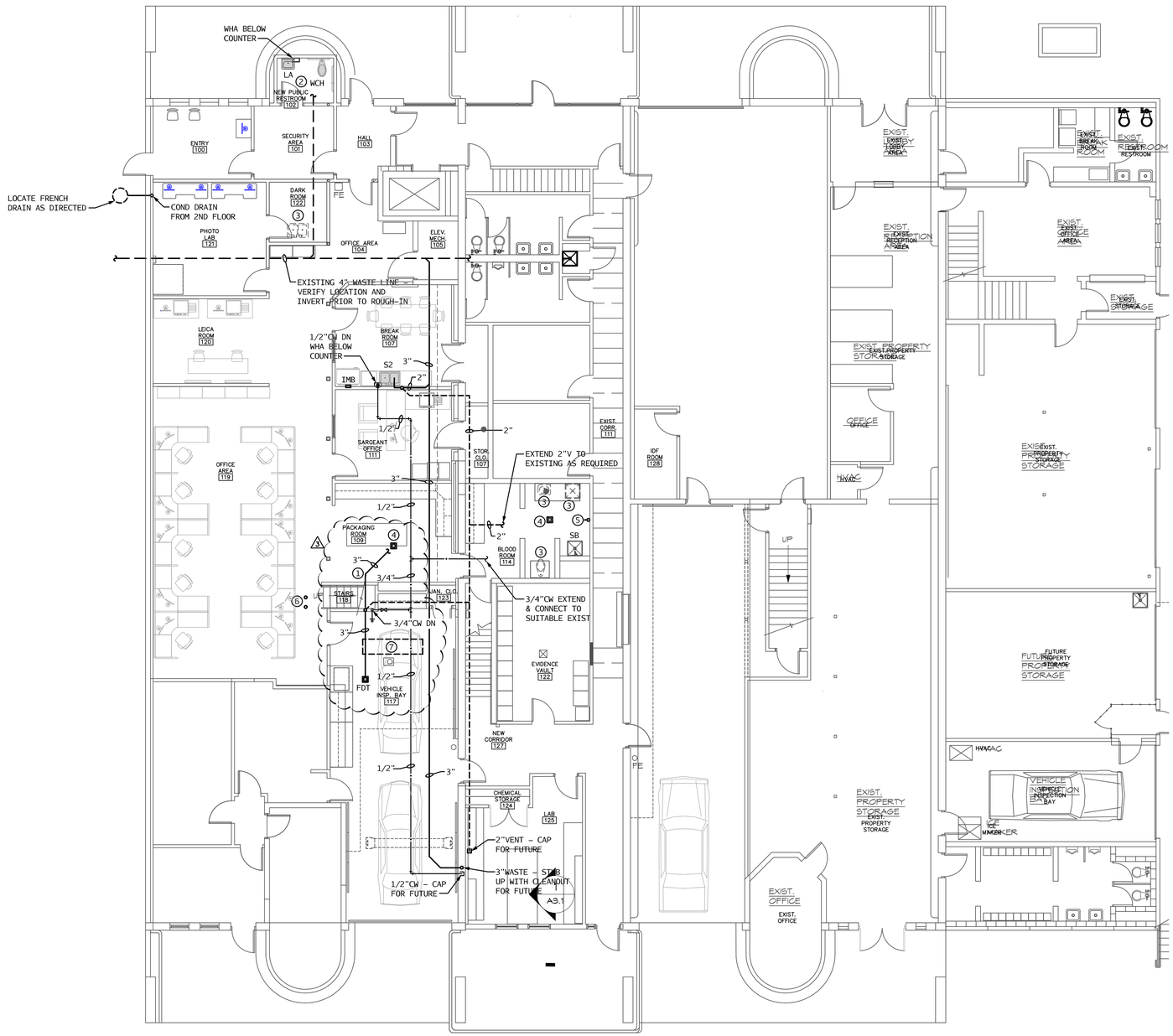
06/22/2020

20-15

IJM/JCT

A7.1





SECOND FLOOR PLUMBING PLAN

8 0 4 8 16 32

GRAPHIC SCALE (IN FEET) SCALE: 1/8" = 1'-0"

FIRST FLOOR PLUMBING PLAN

8 0 4 8 16 32

GRAPHIC SCALE (IN FEET) SCALE: 1/8" = 1'-0"

REVISION

3 - 08-21-2020

BILLINGSLEY ARCHITECTURE

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CHATTANOOGA POLICE CRIME SCENE UNIT RENOVATION P-20-003-201

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PLUMBING PLANS

6/22/2020

20-15

JCP

P1.1

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Project #: A2026

PLUMBING SYMBOLS

———	SANITARY WASTE
- - - - -	SANITARY VENT
—— ——	DOMESTIC COLD WATER
—— · ——	DOMESTIC HOT WATER
—— G ——	GAS (NATURAL OR LPG)
—▷◁—	SHUTOFF VALVE (OR COCK)
—∿—	CHECK VALVE
—▷◁—	BALANCING VALVE
—‖—	UNION OR FLANGED CONNECTION
—□ SA	SHOCK ARRESTOR (FOR DOMESTIC WATER)
VTR	VENT THROUGH ROOF
CO	CLEANOUT
WCO	WALL CLEANOUT
HD	HUB DRAIN
PRV	PRESSURE REDUCING VALVE
BFP	BACKFLOW PREVENTER
BV	BLENDING VALVE
CW	COLD WATER
HW	HOT WATER
FD	FLOOR DRAIN (REFER TO PLBG. FIXT. SCHED.)
FS	FLOOR SINK (REFER TO PLBG. FIXT. SCHED.)
WF	WALL FAUCET (REFER TO PLBG. FIXT. SCHED.)
HB	HOSE BIBB (REFER TO PLBG. FIXT. SCHED.)
AFF	ABOVE FINISHED FLOOR
	CONNECT NEW TO EXISTING CONNECTION POINT

PLUMBING FIXTURE SCHEDULE

TYPE	DESCRIPTION	MANUFACTURER AND CATALOG NO.	ACCESSORIES AND REMARKS	CONNECTION SIZES
WCH	WATER CLOSET FLUSH VALVE FLOOR MOUNT ADA COMPLIANT	KOHLER "HIGHLINE" K-4405 NOTE T	VALVE: ZURN Z-6000AV-HET, SEAT: CHURCH 295C VITREOUS CHINA, SIPHON-JET, ELONGATED BOWL, OPEN FRONT, WHITE SEAT, 1.28 GPF, 17" RIM	CW: 1" WD: 3"
LA	LAVATORY WALL HUNG ADA COMPLIANT	KOHLER "CHESAPEAKE" K-1729 W/ "BVA" NOTE H,FC	TRIM: SYMMONS S-20-O DRAIN/TRAP: K-9000/K-7715 SUPPLIES: K-7607 CARRIER: ZURN Z-1231 20"X18" VITREOUS CHINA, FIXED DRAIN, SINGLE HANDLE TRIM, WASHERLESS	CW: 1/2" HW: 1/2" WD: 1 1/4"
SB	UTILITY SINK 1-COMPARTMENT S.S. WITH LEGS	ELKAY B1C118X18	TRIM: ZURN Z-841F1 FAUCET, MCGUIRE 151 DRAIN TRAP: MCGUIRE 8912, SUPPLIES: MCGUIRE 165 21"X 21" STAINLESS STEEL	CW: 1/2" HW: 1/2" WD: 1 1/2"
SB (ALT)	SINGLE SCRUB SINK KNEE ACTION VALVE WALL MOUNT	ELKAY EWS2520KC	TRIM: LK397C, LK395A, AE19A, LK18B TRAP: MCQUIRE 8912, CP BRASS STOPS 25"X22", TYPE 304 S.S., 14 GAUGE	CW: 1/2" HW: 1/2" WD: 1 1/2"
S2	COUNTER SINK 2-COMPARTMENT DISPOSAL	ELKAY PSR-3322 IN-SINK-ERATOR "BADGER 5"	TRIM: LK410O, (2) LK35 C.P.B. P-TRAP, ANGLE STOPS 33"X22", TYPE 302 S.S., 20 GAUGE 3-HOLE DRILLING	CW: 1/2" HW: 1/2" WD: 1 1/2"
WHA	WATER HEATER ELECTRIC INSTANTANEOUS	EEMAX SPEX3512T	3500W, 120V, 1.0 GPM FLOW RESTRICTOR MOUNT ON WALL BELOW FIXTURE, PROVIDE FITTINGS AS REQUIRED, THERMOSTAT CONTROL	CW: 3/8" HW: 3/8"
BVA	BLENDING VALVE THERMOSTATIC SINGLE FIXTURE	SYMMONS 7-210-CK	SERVICE VALVES, UNION/COUPLINGS AT ALL CONNECTIONS, 3 GPM @ 20 PSI DROP	CW: 3/8" HW: 3/8" BW: 3/8"
IMB	ICE MAKER BOX METAL BOX	OATEY 38688	1/4 TURN VALVE W/ WATTS 8AC VACUUM BREAKER, METAL BOX, FLUSH MOUNT, BTM SUPPLY, WATER HAMMER ARRESTOR	CW: 1/2"
FDT	FLOOR DRAIN TRAFFIC AREA	ZURN Z-511 W/ 9" SLOTTED GRATE NOTE TP	TRAP: Z-1000-P C.I., ZURN Z-1022 TRAP PRIMER, CAST IRON BODY, DUCTILE CAST IRON GRATE	WD: 3" UNO CW: 1/2"
HB	HOSE BIBB ATTACHED HANDLE	WOODFORD 24P ZURN NPE-180A	VACUUM BREAKER, ATTACHED WHEEL HANDLE, 3/4" SIZE, CHROME PLATED BRASS	CW: 3/4"

NOTES, GENERAL:
1. LISTED MANUFACTURERS AND MODEL NUMBERS ARE TO INDICATE QUALITY STANDARDS. EQUAL PRODUCTS BY OTHER MANUFACTURERS ARE ACCEPTABLE.
2. IN JURISDICTIONS WITH STANDARDS/CODES FOR HIGH EFFICIENCY PLUMBING FIXTURES, COMPONENTS SHALL COMPLY WITH APPLICABLE LIMITATIONS FOR GALLONS PER FLUSH (GPF) AND FLOW RATES (GPM).
3. FIXTURES USED FOR PUBLIC HAND WASHING TO HAVE THERMOSTATIC BLENDING VALVE, EQUAL TO SYMMONS 5-210-CK OR LAWLER TMM-1070. MOUNT VALVE ABOVE HANDICAPPED ZONE SO DEVICE IS NOT REQUIRED TO BE INSULATED. SET TEMPERATURE AT 110 DEG OR AS DIRECTED.

NOTES, REFERENCED:
H. PROVIDE PROTECTIVE INSULATING COVERS FOR WATER AND DRAIN PIPING, AND OFFSET TAILPIECE, AT HANDICAPPED FIXTURES PER ADA. INSULATING COVERS FOR PIPING MAY BE OMITTED WHERE PIPING IS PROTECTED BY MILLWORK.
FC. IN LIEU OF CARRIER, WALL PLATE FURNISHED WITH FIXTURE MAY BE USED. PROVIDE 2X10 WOOD BLOCKING BETWEEN WALL STUDS.
T. FLUSH ACTUATOR TO BE LOCATED ON WIDE SIDE OF TOILET ENCLOSURE NO MORE THAN 44" AFF PER ADA.

TP. WHERE ACCEPTABLE TO LOCAL AHJ, "TRAP-GUARD" BY PRO-SET, "MI-GARD" BY MIFAB, OR "SURE-SEAL" BY RECTORSEAL MAY BE USED IN LIEU OF TRAP PRIMERS.

PLUMBING NOTES:

REFERENCED NOTES

3
1. ROUTE WASTE FROM NEW FLOOR DRAIN TO EXISTING FLOOR DRAIN BEING REMOVED AND CONNECT TO EXISTING FLOOR DRAIN WASTE PIPING.
2. NEW PLUMBING FIXTURE AT NEW/REVISED LOCATION. PROVIDE MODIFICATIONS TO MOUNTING ACCESSORIES, WASTE, VENT, AND WATER PIPING AS REQUIRED. CONCEAL PIPING BEHIND ROOM FINISHES.
3. EXISTING PLUMBING FIXTURE TO BE REMOVED. CAP WASTE, VENT, AND WATER LINES CONCEALED BEHIND ROOM FINISHES. RETAIN SEWER CLEANOUT PROVISIONS AS REQUIRED.
4. EXISTING FLOOR DRAIN TO BE REMOVED. TERMINATE/CAP WASTE PIPING CONCEALED BEHIND ROOM FINISHES. RETAIN SEWER CLEANOUT PROVISIONS AS REQUIRED.
5. EXISTING CONDENSATE DRAIN. REROUTE TO SERVICE SINK IN JAN 116.
6. EXISTING PIPING STUB UP IN OLD VEHICLE INSPECTION AREA. DEACTIVATE SYSTEM IF PRESENTLY ACTIVE, AND TERMINATE/CAP PIPING CONCEALED BEHIND ROOM FINISHES.
7. EXISTING FLOOR PIT TO BE REMOVED. TERMINATE/CAP WASTE PIPING CONCEALED BEHIND ROOM FINISHES. RETAIN SEWER CLEANOUT PROVISIONS AS REQUIRED.
8. NOT USED

UNREFERENCED NOTES

A CUT AND PATCH EXISTING CONSTRUCTION AS REQUIRED TO INSTALL NEW PLUMBING FIXTURES AND PIPING. ADJUST LOCATIONS TO ACCOMMODATE EXISTING CONDITIONS.

B AT FIXTURE REPLACEMENT AT EXISTING LOCATION, MODIFY MOUNTING ACCESSORIES, WASTE, VENT, AND WATER PIPING IF REQUIRED. CONCEAL PIPING BEHIND ROOM FINISHES. REPLACE ALL ACCESSIBLE BRANCH PIPING (BETWEEN FIXTURE AND PIPE HEADER OR MAIN). REPLACE OR RECONFIGURE CARRIERS AND SUPPORTS AS REQUIRED TO PROVIDE A NEAT AND SECURE INSTALLATION.

C REMOVE ALL ACCESSIBLE DWV AND DOMESTIC WATER PIPING NO LONGER IN SERVICE, WITH ASSOCIATED SUPPORTS AND ACCESSORIES. CAP PIPING BEHIND ROOM FINISHES. RETAIN SEWER CLEANOUT PROVISIONS AS REQUIRED.

REVISION
3 – 08-21-2020

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PLUMBING SCHEDULE & NOTES

6/22/2020

20-15

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