

ADDENDUM 2(AD-2)

Date: December 06, 2013

Owner: Fremont Area Medical Clinic
Project: BP-3 - Interior Fit-Up

Architect: HDR Architecture, Inc.

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Address: 8404 Indian Hills Drive; Omaha, NE 68114-4098

NOTICE:

This Addendum is issued to known individuals, firms or corporations holding Bidding Documents and Contract Documents for above listed project.

This Addendum is hereby made a portion of Bidding Documents and Contract Documents. Bidders are required to acknowledge receipt of Addendum in appropriate space on Bid Form.

INDEX:

1. Changes to Architectural Drawings.
2. Changes to Mechanical Drawings.
3. Changes to Electrical Drawings.
4. Changes to Project Manual.
5. Attachments:
 - a. Specification Changes.
 - b. Drawings.

CHANGES TO ARCHITECTURAL DRAWINGS

- A. Sheet G-101 through G-106
 - 1. Fire extinguisher cabinets located
- B. Sheet A-403 and A-404
 - 1. Ceiling lighting layout adjusted in Operating Rooms (1941 and 1942) to be centered over the operating room table.
- C. Sheet A-413
 - 1. Air and Oxygen outlets added per code requirement to room 4090 (Anesthesia Work Room).
- D. Sheet A-601
 - 1. Clarification: Sheet A-601 issued in Addendum #1 replaces original sheets A-601, A-603.1, and A603.2
 - 2. Sheet re-issued in Addendum #2 for various changes; see clouded_changes.
- E. Sheet A-602
 - 1. Clarification: Sheet A-602 issued in Addendum #1 replaces original sheets A-604.1 and A604.2.
 - 2. Sheet re-issued in Addendum #2 for various changes; see clouded_changes.
- F. Sheet A-603
 - 1. Sheet issued as new sheet in Addendum #2 and replaces original sheet A-605.
- G. Sheet A-610
 - 1. Revised door type mark at Full Glass door.
 - 2. Revised details at door type 'W'.
 - 3. Added frame type for masonry walls with 4" head, type 'xM'.

CHANGES TO MECHANICAL DRAWINGS

- A. The following drawings are reissued in their entirety:
 - 1. M-106 – SIXTH LEVEL FLOOR PLAN – HVAC
 - 2. M-305 – FIFTH LEVEL FLOOR PLAN – PLUMBING
 - 3. M-206 – SIXTH LEVEL FLOOR PLAN – PIPING
 - 4. M-602 – MECHANICAL SCHEDULES
- B. All M-201 Series Drawings
 - 1. Add Sheet Note K as follows: “K. RADIANT PANELS ARE TO BE PIPED AND CONTROLLED INDIVIDUALLY AT EACH PANEL.”
- C. Sheet M-303 – Third Floor Plan - Plumbing
 - 1. Add to Sheet Note 5 as follows: “5. DIALYSIS BOXES ARE PROVIDED WITH HEADWALL”

CHANGES TO ELECTRICAL DRAWINGS

- A. E-101A - First Floor Plan - Area A - Lighting
 - 1. Revise main stairwell circuit indication in General Note 'F' to read: "MAIN STAIRWELL - PROVIDE TWO (2) DEDICATED CIRCUITS FROM PANEL 322E TO SERVE ALL FLOORS. NORTH LIGHTING SHALL BE SERVED ON SEPARATE CIRCUIT FROM SOUTH LIGHTING."
- B. E-401 – Enlarged Lighting Plans
 - 1. Detail 3: Revise headwall light switches to be located between headwall computer and patient bed.
- C. E-601 – Electrical Schedules
 - 1. Lighting Fixture Schedule – Fixture Type “01” and Remark Note 6 to read: “WALL CONTROLLER – PROVIDE INSTALLATION AND CONNECTION OF WALL CONTROLLER FURNISHED WITH LIGHT.”
- D. The following drawings are reissued in their entirety:
 - 1. E-206 - SIXTH FLOOR PLAN - POWER
 - 2. E-402 – ENLARGED POWER PLANS
 - 3. E-601 - ELECTRICAL SCHEDULES
 - 4. E-602 – ELECTRICAL SCHEDULES
 - 5. E-616 - EQUIPMENT POWER PANEL SCHEDULES
 - 6. MES-101 – MECHANICAL AND ELECTRICAL SITE PLAN

CHANGES TO PROJECT MANUAL

1.1 GENERAL NOTE

- A. If paragraph has been changed by this addendum, entire page has been reprinted. "AD" helps indicate line changed. Contractor is responsible for review of entire page to determine all changes made within paragraph.
- B. The following Sections have changed:
 - 1. 08 06 00: Reissued.
 - 2. 08 71 00: Reissued.
 - 3. 08 88 53: Revised.
 - 4. 23 09 93: Reissued.
 - 5. Mechanical Specifications: The following manufacturers are approved to bid the project. Approval to bid does not constitute acceptance of the product for use in the building. Final approval must be obtained through the formal shop drawing submittal process. The list is presented by product application and not necessarily by specification reference.
 - a. Manual (Non-Sensored) Faucets:
 - 1) American Standard
 - 6. Section 275116 – Public Address and Mass Notification Systems
 - a. Add Article 1.2, Paragraph C as follows:

“C. Existing System Replacement: In addition to public address work illustrated on the plans, provide replacement of existing public address speakers, existing cabling, and existing amplifiers within occupied un-renovated areas outside the limits of general construction. Electronic Sound, Inc. (Omaha, NE) has previously surveyed and identified the scope of necessary replacement within those areas. Coordinate with Electronic Sound. Submit written clarification of included scope from Electronic Sound with the bid.”
 - b. Add Article 3.2, Paragraph J as follows:

“J. Nurse Station Speaker Zones: Each Nurse Station area (Communication Center) shall be zoned separately from the adjacent corridor. Nurse Station area shall include speakers located within the Communication Center and adjacent Nourishment/Dictation areas.”
 - 7. Section 281300 – Security Access
 - a. Add Article 2.7 as follows:

“2.7 CARDS

 - A. Cards: HID ISOProx II. Provide a quantity of 1500 pre-punched blank cards.
 - B. Printer: Datacard CP80 Plus. Include associated software, setup, training, card design assistance, and printer supplies sufficient for the quantity of blank cards supplied. Install one (1) additional card reader at the Owner-selected location of the printer for enrolling of new cards.”
 - 8. Section 281301 – Wander Prevention and Infant Security System
 - a. Under Article, 2.2, Paragraph D: Add Subparagraphs 16 and 17 as follows:

“16. Quantity: Provide 20 tags.”

“17. Band Removal: Tags shall alert for band removal/tamper. Provide band removal antenna coverage for all patient care areas of 3rd and 4th Floors.”
 - 9. Section 283111 – Digital, Addressable Fire-Alarm System
 - a. Add Article 1.3, Paragraph C as follows:

“C. Existing Device Replacement: In addition to fire alarm work illustrated on the plans, provide replacement of existing fire alarm bells and existing combination bell-strobes with new fire alarm horns and new combination horn-strobes within occupied un-renovated areas outside the limits of general construction. This additional scope is required to provide a uniform audible signal throughout the building. Where new devices are physically smaller than old devices, provide stainless steel trim plate to cover excess opening. Strobes shall be synchronized. Include the following quantities of existing device replacement as described above:

1. Basement - Qty 20
2. First Floor - Qty 35
3. 2nd Floor - Qty 6
4. 3rd Floor - Qty 3”

AD-2: Section 08 06 00; 12/06/2013: Reissue Section 08 06 00 in its entirety.

SECTION 08 06 00

DOOR, FRAME AND HARDWARE SCHEDULE (Reissued AD-2)

PART 1 - LEGEND

1.1 SUMMARY

- A. Furnish labor, materials, tools, equipment, and services for Door, Frame and Hardware Schedule, as indicated, in accordance with provisions of Contract Documents.
- B. Completely coordinate with work of other trades.

1.2 RELATED SECTIONS

- A. Section 08 11 13: Hollow Metal (HM) Doors and Frames.
- B. Section 08 14 16: Flush Wood Doors.
- C. Section 08 33 13: Counter Shutters (CS).
- D. Section 08 34 49: Radiation Resistant Doors.
- E. Section 08 41 13: Aluminum Storefront (for ALUM doors). **See Bid Package 2.**
- F. Section 08 42 29: Automatic Sliding Doors.
- G. Section 08 44 13: Curtainwall Systems (CWS). **See Bid Package 2.**
- H. Section 08 71 00: Hardware.
- I. Section 08 71 13: Automatic Door Equipment – Swinging Doors.
- J. Section 08 81 04: Interior Glass and Glazing.
- K. Section 08 88 53: Security Glazing.**

1.3 ABBREVIATIONS

- A. ALUM: Aluminum.
- B. ANOD: Anodized.
- C. HM: Hollow metal.
- D. SS: Stainless Steel.
- E. FRB: Fire-rated Borrowlite.
- F. HW: Hardware.
- G. LBL: Label.
- H. MATL: Material.
- I. **MH**: Magnetic Hold Open.
- J. HLDR: Mechanical Door Holder.
- K. PL, PLAM: Plastic Laminate.
- L. PNT: Paint.
- M. PR: Pair.
- N. DE: Double Egress.

- O. WD: Wood.
- P. STN: Stain.
- Q. GL: Glass.
- R. FIN: Finish.**
- S. DO: Automatic Door Operator.**
- T. AC: Access Control.**
- U. DPS: Door Position Switch.**
- V. LA: Local Alarm.**

1.4 DESIGN REQUIREMENTS

- A. Scheduled Dimensions:
 - 1. Dimensions given for swing doors refer to nominal door panel width and height; doors may be undercut a maximum dimension allowed by fire label.
 - 2. Dimensions given for package doors (i.e. automatic and manual sliders) refer to the overall package width and height, including frames, transoms, and multiple door panels. (See Door Type Elevations for additional clarity).
 - 3. Dimensions indicated as feet-inches; 3-0 = 3 feet - 0 inches.
 - 4. All doors are 1-3/4 IN thick unless otherwise noted.
- B. All door and frame assemblies are minimum minute label noted.
- C. All WD doors are factory finished (stain); see Section 08 14 16.
- D. All HM frames are painted (See Section 09 91 13 and Section 09 91 23).

1.5 DOORS

- A. As indicated in Drawings.

1.6 FRAMES

- A. As indicated in Drawings.

END OF SECTION

AD-2: Section 08 71 00; 12/06/2013: Reissue Section 08 71 00 in its entirety.

SECTION 08 71 00
DOOR HARDWARE (Reissued AD-1; AD-2)

PART 1 - GENERAL

1.1 QUALITY ASSURANCE

- A. Fire-Rated Door Assemblies:
 - 1. Provide door hardware rated for use in assemblies complying with NFPA 80.
 - 2. Include listed and labeled hardware from a qualified testing agency, for fire-protection ratings indicated,
 - 3. Comply with Positive Pressure Requirements UL 10C, Category A or NFPA 252.
- B. Smoke and Draft Control Assemblies:
 - 1. Maximum Leakage: 3 CFM per SF of door face area when tested at pressure of 0.10 IN water per UL 1784.
 - 2. Applicability:
 - a. Doors in Smoke Partitions, Smoke Barriers and Corridor walls.
 - b. Doors forming part of an Elevator Lobby enclosure.
 - 3. Provide "S-Labels" on all such openings.
- C. Finish designations and standards: Builders Hardware Manufacturers Association (BHMA) Standard 1301.

1.2 QUALIFICATIONS

- A. Installer qualifications: Supervised or inspected by certified Architectural Hardware Consultant (AHC).
- B. Hardware Supplier:
 - 1. Recognized architectural door hardware supplier, with warehousing facilities, who has been furnishing hardware in the project's vicinity for a period of not less than 2 years.
 - 2. On-staff, experienced Architectural Hardware Consultant (AHC) who is available, during the course of the Work, for consultation about project's hardware requirements.
- C. Electrified Hardware Supplier:
 - 1. Experienced door hardware supplier who has completed projects with electrified door hardware similar in material, design and extent to that indicated for this project, who has a record of successful in-service performance and is acceptable to manufacturer of materials.
 - 2. Shall prepare data for electrified door hardware based on testing and engineering analysis of manufacturer's assemblies similar to those in this project.

1.3 SUBMITTALS

- A. Shop Drawings:
 - 1. Complete Hardware Schedule by door.
 - a. Complete list of products including model numbers and cut sheets.
 - b. Hardware Schedule shall utilize Heading Numbers which are logically derived from Architect's Hardware Set numbers.
 - c. Hardware Sets shall follow the guidelines established in Door & Hardware Institute Handbook (DHI) Sequence and Format for the Hardware Schedule with index of doors and headings, indicating complete designations of every item required for each door or opening.
 - 2. Diagrammatic Elevations and Point-to-Point Wiring Diagrams of openings scheduled to receive electrified hardware and electronic access control devices.

- a. Provide detailed wiring diagrams showing terminal or pigtail connections for signaling, control and locking functions and any notes pertinent to programming, operation, etc. that are necessary to integrate the proposed hardware into electrical systems.
 - b. In addition, when door hardware sets include automatic operators and locking or latching hardware on the same doors, provide detailed wiring diagrams showing the interconnection of these components to achieve coordinated operation with access control system specified in Section 28 10 00.
 - c. Submit with Hardware Schedule.
- B. Project Information:
 - 1. Certification that items bear UL label where required.
 - 2. Meeting minutes from Pre-Installation Meeting.
- C. Contract Closeout Information:
 - 1. Schedule of all components installed as hardware sets for each opening.
 - 2. Operating and maintenance data.
 - a. Parts catalog for each product furnished.
 - b. Keying records.
 - 3. Owner instruction report.
 - 4. Letter stating extra material has been delivered.

1.4 REGULATORY REQUIREMENTS

- A. Unless scheduled otherwise, hardware shall comply with barrier free design requirements of the local jurisdiction and Americans with Disabilities Act (ADA).
- B. All hardware shall meet listing requirements of the local jurisdiction and be UL listed where applicable by type.

1.5 PRE-INSTALLATION MEETING

- A. Prior to installation of hardware, Construction Manager/Contractor conduct an on-site meeting to instruct hardware installer personnel in the proper installation of hardware and related electronics.
 - 1. Manufacturer's Reps for Locksets, Closers, Exit Devices and other major hardware devices shall be present and direct instruction of installers.
 - 2. Require attendance of affected parties, not limited to: Construction Manager/Contractor, Hardware installer, Electrical installer, door and frame installers, and security installer (where applicable). Any installer working with low voltage wiring of electromechanical hardware shall be in attendance.
 - 3. Discuss installation sequence of components, Point-to-Point wiring diagrams, and address questions raised by installers.

1.6 COORDINATION

- A. Electrical Devices: Coordinate power requirements with related sections.
- B. Coordinate with other Sections where reinforcement or other preparation of doors and frames is required.
- C. Furnish hardware templates to other Sections only after schedules have been approved.

1.7 JOB CONDITIONS

- A. Where exact types of hardware specified are not adaptable to finished shape or size of members requiring hardware, provide suitable types having as nearly as practical as the same operation and quality as type specified, subject to Architect's approval.

1.8 MAINTENANCE MATERIALS

- A. Provide special tools as supplied by hardware manufacturer, for each different or special hardware component.

1.9 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of door hardware that fail in materials or workmanship within specified warranty period.
 - 1. Failures include, but are not limited to, the following:
 - a. Structural failures including excessive deflection, cracking or breakage.
 - b. Faulty operation of operators and door hardware.
 - c. Deterioration of metals, metal finishes, and others beyond normal weathering and use.
 - 2. Warranty Period: Three years from date of Substantial Completion, except as follows:
 - a. Electrified exit devices: 12 months from the date of placing the product in operation.
 - b. Manual Closers: 10 years from date of placing the product in operation.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. Locks, Latches, and Deadbolts:
 - 1. Base:
 - a. Schlage Lock.
- B. Cylinders:
 - 1. Base:
 - a. Same manufacturer as listed for Locks, Latches and Deadbolts.
- C. Patient Latches:
 - 1. Base:
 - a. Glynn-Johnson.
 - 2. Optional:
 - a. Trimco.
 - b. Sargent Manufacturing.
- D. Pushbutton Locksets:
 - 1. Base:
 - a. Kaba Ilco (a.k.a Simplex).
 - 2. Optional:
 - a. Schlage.
- E. Anti-Ligature Locks and Trim:
 - 1. Base:
 - a. Townsteel Inc.
 - 2. Optional:
 - a. Accurate Lock and Hardware.
 - b. Schlage.
 - c. Stanley.
- F. Exit Devices:
 - 1. Base:
 - a. Von Duprin.
- G. Door Closers:
 - 1. Base:
 - a. LCN Closers.

- H. Hinges:
 - 1. Base:
 - a. Hager Hinge.
 - 2. Optional:
 - a. Stanley Hardware.
 - b. McKinney.
 - c. Ives.
- I. Continuous Geared Hinges:
 - 1. Base:
 - a. Ives.
 - 2. Optional:
 - a. Markar.
 - b. Zero.
 - c. McKinney.
- J. Invisible Hinges**
 - 1. Base:**
 - a. Soss.**
- K. Access Control Devices:
 - 1. Base:
 - a. Schlage Electronic Security (Locknetics).
- L. Door Stops:
 - 1. Base:
 - a. Ives.
 - 2. Optional:
 - a. Sargent Manufacturing.
 - b. Corbin Russwin Architectural Hardware.
 - c. Hager Hinge.
 - d. Trimco.
- M. Overhead Door Holders and Stops:
 - 1. Base:
 - a. Glynn-Johnson.
 - 2. Optional:
 - a. Sargent Manufacturing.
 - b. Rixson.
- N. Door Pulls, Pushplates, and Pushbars:
 - 1. Base:
 - a. Trimco.
 - 2. Optional:
 - a. Hager Hinge.
 - b. Burns Manufacturing.
 - c. Ives.
 - d. Rockwood Manufacturing.
- O. Kickplates and Door Edging:
 - 1. Base:
 - a. Trimco.
 - 2. Optional:
 - a. Hager Hinge.
 - b. Burns Manufacturing.
 - c. Ives.
 - d. Rockwood Manufacturing.

- P. Armorplates:
 - 1. Base:
 - a. Construction Specialties, Inc.
 - 2. Optional:
 - a. Inpro.
- Q. Flushbolts and Coordinators:
 - 1. Base:
 - a. Ives.
 - 2. Optional:
 - a. Door Controls.
 - b. Rockwood.
 - c. Hager Hinge.
- R. Thresholds, Head Drips, Weatherstripping, and Smoke Gaskets:
 - 1. Base:
 - a. Reese Enterprises.
 - 2. Optional:
 - a. National Guard Products.
 - b. Pemko Manufacturing.
 - c. Zero International.
- S. Pivots:
 - 1. Base:
 - a. Rixson Specialty Door Controls.
 - 2. Optional:
 - a. Ives.
- T. Gaskets, light and sound:
 - 1. Base:
 - a. Reese Enterprises.
 - 2. Optional:
 - a. National Guard Products.
 - b. Pemko Manufacturing.
- U. Electromagnetic Holders:
 - 1. Base:
 - a. LCN.
 - 2. Optional:
 - a. Rixson.
- V. Jamb/Door Guards:
 - 1. Base:
 - a. Life Science Products.
 - 2. Optional:
 - a. Rockwood Manufacturing.
- W. Sliding/Bifolding Hardware:
 - 1. Base:
 - a. L.E. Johnson Products, Inc.
 - 2. Optional:
 - a. Hager.
 - b. Hafele.
- X. Door Status Contacts:
 - 1. Base:
 - a. UTC/GE Security/Sentrol.
 - 2. Optional:
 - a. Securitron.

- Y. Other materials:
1. Base: As indicated.
- Z. Other manufacturers desiring approval comply with Section 00 26 00 and submit samples of both specified item and proposed item for comparison.

2.2 MATERIALS

A. General:

1. Provide hardware for fire rated openings in compliance with UL, NFPA-80 and CFR Part 36 (ADA) guidelines.
 - a. This requirement takes precedence over other requirements for such hardware.
 - b. Provide only hardware which has been tested and listed by UL for types and sizes of doors.
2. Furnish items of hardware for proper door swing.
3. Provide strikes with curved lips.
4. Provide extended lips when necessary.
5. Provide strike boxes. All strikes to be furnished with ANSI Wrought Strike Box.
6. Tactile Warning:
 - a. Definition: Etched, milled or knurled surface treatment used on Levers to warn occupants, especially vision impaired occupants, of a potentially dangerous room or condition beyond door.
 - b. Provide on corridor-side levers of doors to loading platforms, boiler and mechanical rooms, stages, utility stairs, roof access, communications and electrical closets and similar rooms.
7. On doors indicated with (LL) hardware, provide either lead lining or lead wrapping of case and thru-bolts as applicable to type of hardware to assure shielding integrity.
8. Provide dustproof strikes for doors with Flushbolts or other bolts to floor.
9. Bid and submit manufacturer's updated/improved item if scheduled item is discontinued.
10. Advise Architect of items which will not operate properly, attain the required fire label, and where components are physically/functionally incompatible.

B. Templates:

1. Provide templates to door and frame suppliers.
2. List template numbers on Hardware Schedule submittal for use by fabricators.
3. Provide copies of approved Hardware Schedule to related suppliers, fabricators, and installers.
4. Include numbered templates.
5. Advise Architect of items which will not operate properly, attain the required fire label, and where components are physically/functionally incompatible.

C. Finishes:

Hardware Finishes				
Hardware Component	Satin Chrome Series			
	Base Metal	ANSI / BHMA	Finish Description	US Equiv
Locksets and Latchsets	Brass/Bronze	626	Satin Chromium plated over nickel	US26D
Door Pulls, Pushbars, and Pushplates	Stainless Steel	630	Satin Stainless Steel	US32D
Kickplates and Armorplates	Stainless Steel	630	Satin Stainless Steel	US32D
Exit Devices	Brass/Bronze	626	Satin Chromium plated over nickel	US26D
Hinges	Stainless Steel	630	Satin Stainless Steel	US32D
	Steel	652	Satin Chromium plated over nickel	US26D
Thresholds, Weatherstripping, Head Drips	Aluminum	719	Mill finish aluminum	US27
Door stops, holders, dead locks, mortise bolts, pivots, door Edging and miscellaneous hardware	Brass/Bronze	626	Satin Chromium plated over nickel	US26D
Patient Latches	Stainless Steel	630	Satin Stainless Steel	US32D
Exposed arms and covers of closers:	Any	689	Powder Coated Aluminum Color	US20A

- D. Fasteners:
1. Manufacture hardware to conform to templates.
 2. Generally prepare for Phillips oval head machine screw installation.
 3. Exposed screws to match hardware finish or, if exposed in surfaces of other work, to match finish of other work as closely as possible.
 4. Mineral core doors:
 - a. Attachment of hinges:
 - 1) Use screws, which are fully threaded (from tip to head).
 - b. Attachment of Closers:
 - 1) Utilize through-bolts at mineral core doors.
 5. Provide concealed fasteners (unless thru bolted).
 6. Provide non-corrosive fasteners.

2.3 CYLINDERS & KEYWAYS

- A. Cylinders:
1. Comply with BHMA A156.5 Grade 1.
 2. Material: Brass or bronze, stainless steel, or nickel silver.
 3. Finish: Match lock mechanism to which cylinders are installed.
 4. **Cylinder Type: Interchangeable cores at all locks.**
 5. IC Format: Full-sized Interchangeable Cores (IC).
 6. Cylinder Mechanism:
 - a. Conventional, 6-pin tumbler.
 7. Key Control:
 - a. Open.
 8. Determine type required to suit locking mechanisms to which they will be installed. Include appropriate trim rings, cams, tail pieces, and adaptors.
 9. Patented cylinders and keys to protect against from unauthorized manufacture.
 10. Provide cylinders for all locking mechanisms scheduled.
 11. Base Product (proprietary to match existing facility):
 - a. _____ by _____; Optional Products will not be permitted.
- B. Keys:
1. Material: Nickel-silver.
 2. Stamping: Permanently inscribe each key with a control number and the following: DO NOT DUPLICATE.
 3. Quantity: In addition to one extra blank key for each lock, provide the following:
 - a. Cylinder Change Keys: 3.
 - b. Master Keys: 6.
 - c. Grand Master Keys: 6.
 - d. Great-Grand Master Keys: 6.

2.4 LOCKS & LATCHES

- A. Mortise Locks and Latches:
1. ANSI/BHMA-A156.13, Series 1000, Operational and Security Grade-1.
 2. Mortise with antifriction latchbolt with 3/4 IN throw and deadbolt with 1 IN throw.
 3. Sectional trim (A) unless otherwise specified.
 4. 2-3/4 IN backset.
 5. L Series by Schlage.
 - a. **06 design.**
 6. Functions as indicated in Hardware Sets and in accordance with ANSI/BHMA-A156.13.
- B. Cylindrical (bored) Locks and Latches:
1. ANSI/BHMA-A156.2, Series 4000, Grade-1.
 2. **Heavy duty cylindrical with latchbolt throw as follows:**
 - a. **Single doors: 1/2 IN minimum, or as otherwise required by fire label.**
 - b. **Pair doors: 3/4 IN minimum, or as otherwise required by fire label.**
 3. **2-3/4 IN backset.**

4. **Schlage.**
 - a. **Rhodes lever.**
 5. **Functions as indicated in Hardware Sets and accordance with ANSI/BHMA-A156.2.**
- C. Electrified Locksets:
1. Supplied by same manufacturer supplying conventional locks and latches
 2. Design, level of quality, styles and finishes: Matching requirements listed above for locks and latches.
 3. Operational Types (mortise):
 - a. Electric Locking (EL); Power on locks one lever; Fail Safe if power is lost; Opposing lever always free; Base Product: L9080EL-RXchlage.
 - b. RX micro-switches:
 - 1) Built-in switch to signal request-to-exit when occupant uses free lever to depart from the secured room or area.
 - 2) Security system to shunt alarm when signaled by RX switch.
 - 3) Include RX switch in all Electrified Locksets unless otherwise indicated.
 4. **Operational Types (cylindrical):**
 - a. **Electric Locking (EL); Power on locks one lever; Fail Safe if power is lost; Opposing lever always free; Base Product: ND96PDEL by Schlage.**
 - b. **Electric Unlocking (EU); Power off locks one lever; Fail Secure if power is lost; Opposing lever always free; Base Product: L96PDEU by Schlage.**
- D. Patient Latches (a.k.a. Hospital Latches):
1. Cylindrical, non-Locking Type:
 - a. Base:
 - 1) Glynn-Johnson HL-6.
 - b. Optional:
 - 1) Trimco 1500 Series.
 - c. Backset:
 - 1) 5 IN.
 - d. Paddle configuration:
 - 1) Push up/ Pull down.
 - e. Paddles engraved with PUSH and PULL.
- E. Auxiliary Deadbolts (bored-type):
1. Comply with BHMA A156.5, Grade 1.
 2. Lock Throw: 1 IN minimum, or as otherwise required by fire label.
 3. Backset: 2-3/4 IN (unless otherwise indicated).
 4. Base Product: B600/700/800 Series Commercial Grade Auxiliary Locks by Schlage.

2.5 ANTI-LIGATURE LOCKS AND TRIM

- A. **General:**
1. **Definition: Items designed and manufactured specifically impedes the occupant's ability to attach laces, cord, and line to the knob set to reduce accidents.**
 2. **Functions indicated.**
 3. **Comply with ADA Barrier-Free Accessibility.**
 4. **All exposed or accessible anchors or screws shall be Tamper Resistant Fasteners as specified in section 11 19 19.**
- B. **Anti-Ligature Mortise Locksets:**
1. **ANSI/BHMA-A156.13, Series 1000, Operational and Security Grade-1.**
 2. **Clutching mortise with antifriction latchbolt with 3/4 IN throw and deadbolt with 1 IN throw.**
 3. **Base Product (Anti-Ligature Lever): MRX-L by Townsteel.**
 4. **Base Product (Anti-Ligature Knob): MRX-K by Townsteel.**
- C. **Anti-Ligature Cylindrical Locksets (knob):**
1. **ANSI/BHMA-A156.2 - Grade-1.**

2. **Heavy duty cylindrical with latchbolt throw as follows:**
 - a. **Single doors:** 1/2 IN minimum, or as otherwise required by fire label.
 - b. **Pair doors:** 3/4 IN minimum, or as otherwise required by fire label.
3. **Backset:** 2-3/4 IN.
4. **Base Product (Anti-Ligature Knob):** CRX-K by Townsteel.

D. Anti-Ligature Security Flush Pull

1. **Base: Rockwood D89 Security Flush Pull.**
 - a. **ANSI A156.6: J403.**
 - b. **Tamper resistant fasteners.**
 - c. **Finish: US26D/626.**

2.6 EXIT DEVICES

- A. ANSI/BHMA-A156.3, Grade-1; Types and functions as scheduled by the HW-sets and as applicable for door material and other conditions indicated.
- B. Fire Rated Openings:
 1. Use Fire-rated devices.
- C. Non-rated openings:
 1. Typical: Use doggable (UL-listed for accident hazard) devices.
 - a. Exception 1: Omit dogging where (non-fire rated) openings occur in a Smoke Partitions (Fire rated devices are also acceptable).
 - b. Exception 2: Omit dogging where openings that include Cardreaders and any where that dogging could compromise ability to secure the opening (Fire rated devices are also acceptable).
- D. Where CVR (concealed vertical rod) and SVR (surface vertical rod) devices are scheduled:
 1. Include bottom rods at all exterior openings.
 2. At all interior openings: Provide LBR (Less Bottom Rod) where permitted by label. Include thermal (fire) pins and other required items to compensate.
 3. Where exposed bottom rods are required: Protect rods with rod and latch guards.
 - a. Base product: RG-27 by Von Duprin.
- E. Include cylinders at lockable devices.
- F. Electrified devices:
 1. Include Power Transfer devices; EPT-2 or EPT-10 by Von Duprin (depending on number of conductors required for device).
 2. Include Power Supply, type as required.
- G. Lever Style: Match lever style specified for Locks and Latches.
- H. Offset Pull Style: 1 IN diameter; 8190-0 by Ives/Von Duprin.
- I. Base Products:
 1. Push Pad type (grooved-case):
 - a. 99 Series by Von Duprin; Except 33 Series for narrow stile doors.
- J. Definition of Abbreviations:
 1. Device Types:
 - a. **Rim:** Rim Device.
 - b. **Mortise:** -75 Mortise Device.
 - c. **SVR:** -27 Surface Vertical Rods.
 - d. **CVR:** -47 Concealed Vertical Rod.
 2. Outside Trim Types:
 - a. **EO:** Exit Only Trim; Function 01 - No cylinders, levers, pulls or other trim.
 - b. **L:** Lever Trim; Function 08; Key locks/unlocks lever.
 - c. **NL:** Nightlatch Trim Function 03 – Key in cylinder momentarily retracts bolt.
 - d. **OP:** 1 IN diameter offset wire pull Trim; Function 02 – Pull when dogged.

- e. **OP-NL**: 1 IN diameter offset wire pull Trim; Nightlatch Function 03 – Key in cylinder momentarily retracts bolt.
- f. **VRT**: Vandal-resistant Pull Trim.
- g. **VRT-NL**: Vandal-resistant Pull Trim; Nightlatch Function 03 – Key in cylinder momentarily retracts bolt.
- h. **EL**: Electric Locking Lever Trim; aka: “Fail Safe”.
- i. **EU**: Electric Un-Locking Lever Trim; aka: “Fail Secure”.
- 3. Optional Functions:
 - a. **ELR**: Electric Latch Retraction.
 - b. **F**: Fire Rated Device.
 - c. **E**: Electric locking.
 - d. **CD**: Cylinder dogging.
 - e. **LD**: Cylinder dogging.
 - f. **LX**: Latch bolt monitoring.
 - g. **RX**: Request to exit switch.
 - h. **SS**: Signal switch.

2.7 STRIKES

A. Strikes:

- 1. Provide manufacturer's standard strike for each latching/locking mechanism.
 - a. Finish: Match latch/lock device.
- 2. Standards: Comply with the following:
 - a. Strikes for Bored Locks and Latches: BHMA A156.2.
 - b. Strikes for Mortise Locks and Latches: BHMA A156.13.
 - c. Strikes for Auxiliary Deadlocks: BHMA A156.5.
- 3. Strike Lip:
 - a. Typical: Curved lip extended to protect frame.
 - b. Locks with 3-piece antifriction latchbolts: Flat-Lip Strikes, where so recommended by manufacturer.
 - c. Locks used on frames with applied wood casing trim: Extra-Long-Lip Strikes.

B. Strike Boxes:

- 1. Provide manufacturer's standard strike box for each latching/locking mechanism.
- 2. Provide specially-fabricated Strike Boxes where set in aluminum framing.

2.8 DOOR CLOSERS (SURFACE-APPLIED)

A. Door Closers (surface-applied):

- 1. Comply with BHMA A156.4, Grade 1.
- 2. UL-listed for use on fire doors.
- 3. Base Products:
 - a. Models 4011 and 4111 by LCN.
 - b. Models 4041 and 4041XP, by LCN.
- 4. Size door closers to comply with manufacturer's recommendations for door sizes, locations, and accessibility requirements for opening force.
- 5. Closers adjustable to 3 second closing speed from 70 DEG opening to 3 IN from latch.
- 6. Supply arms, brackets, and plates, as required.
- 7. Mount closers on room side of corridor doors, unless conditions expressly prohibit such mounting.
 - a. Where proposing to locate closers on “Corridor side”: Notify Architect, in writing, and obtain approval prior to installing.
- 8. Closers with integral back checks.
- 9. Entrance and vestibule doors: Delayed action closer and overhead stop.
- 10. Other exterior out-swinging doors: Closer with limiting cushion stop.

2.9 HINGES

A. Butt Hinges:

1. Standards: Butts and Hinges: BHMA A156.1; Template Hinge Dimensions: BHMA A156.7; Self-Closing Hinges: BHMA A156.17.
2. General:
 - a. All hinges are full mortise, unless noted otherwise.
 - b. Non-rising, flat button tips.
 - c. Non-removable pins (NRP): Provide at out-swinging exterior doors and where specifically indicated.
3. Following table refers to manufacturer's numbers that are considered equal:

Definition of Hinge Types						
Type	Manufacturer				Description	
	Hager	Stanley	Ives	McKinney	ANSI	Remarks
1	BB1199	FBB199	5BB1HW	T4B3386	A5111	Stainless Steel, Heavy Weight, 5-knucke, 4 Ball Bearing, Non-ferrous for wet/exterior usage.
2	BB1168	FBB168	5BB1HW	T4B3786	A8111	Heavy Weight, 5-knucke, 4 Ball Bearing, Steel w/ Steel Pin.
3	BB1279	FBB179	5BB1	TB2714	A8112	Standard Weight, 5-knuckle, 2 Ball Bearing, Steel w/ Steel Pin
4	BB1263	FBB268/78	5BB1SCHW	T4B3795	A8121	Swing Clear Hinge, Heavy Weight, 5-knucke, 4 Ball Bearing, Steel w/ Steel Pin
5	1250	2060R	3SP1	1552	K81071F	Spring Hinge, (single-acting), Steel, Use two Type 5 (Spring Hinges) in combination with Type 2 (Heavy Weight Ball Bearing) hinges
6	--	--	--	1001	K81071F	Double-acting Spring Hinge, Steel, Full mortise, heavy duty
GENERAL NOTES: Use Type where indicated. It is possible that not all Types will be needed on subject project. On openings with unequally sized pairs: Utilize same hinge model on both leaves; Hinge type listed for the larger/heavier leaf shall govern. Use the appropriate variations of the above listed Model Numbers as necessary for actual door edge style specified (I.e. Bevel or Square Edge Doors). Where Type 4 (Swing Clear) or Type 5 (Spring) hinges are called for at Exterior or wet areas: Use the Stainless Steel variations of the above listed Model Numbers. McKinney TA series is also considered equal to its TB Series.						

4. Hinges Types according to door location and width:
 - a. Type 1 - Stainless Steel, Heavy Weight, Ball Bearing Hinge:
 - 1) Exterior out-swinging doors, with non-removable pins (NRP) option.
 - 2) Exterior in-swinging.
 - 3) Interior wet areas (doors to showers, kitchens, etc.) which are in-swinging.
 - b. Type-2 - Steel, Heavy Weight, Ball Bearing Hinge:
 - 1) Interior greater than 36 IN wide.
 - c. Type-3 - Steel, Normal Weight, Ball Bearing Hinge:
 - 1) Interior less than or equal to 36 IN.
 - d. Type-4 - Swing Clear, Steel, Heavy Weight, Ball Bearing:
 - 1) Use on openings where specifically indicated or scheduled.
 - 2) Upgrade to Stainless Steel for exterior and interior wet areas.

5. Hinge quantities per door leaf:

Hinge Quantities (based on Door Height)	
Nominal Leaf Height	Minimum Number of Hinges Required each Leaf
Up to 60 IN	2 hinges
Between 61 IN and 90 IN	3 hinges
Between 91 IN and 120 IN	4 hinges
Between 121 IN and 150 IN	5 hinges
Taller than 151 IN	Add 1 hinge for each 30 IN increase in leaf height thereafter

a. Specialty Door configurations:

- 1) Dutch doors: Refer to Table above for EACH individual leaf.
- 2) Nurse-server doors: Refer to Table above for EACH individual leaf.

6. Hinge sizes:

Guide to Minimum Sizes of Hinges			
Door Thickness	Door Width	Minimum Hinge Height	Minimum Hinge Width
1-3/8 IN	Up to 32 IN	3-1/2 IN	3-1/2 IN
	From 32 IN to 36 IN	4 IN	
	Greater than 37 IN	4-1/2 IN	
1-3/4 IN	Up to 36 IN	4-1/2 IN	4-1/2 IN
	From 37 IN to 48 IN	5 IN	
	Over 48 IN	6 IN	
2 to 2-1/2 IN	Up to 42 IN	5 IN Heavy Weight	5 IN
	Over 43 IN	6 IN Heavy Weight	

GENERAL NOTES:

1. The above is a general guide to minimum sizes. Consider the actual weight of door leaf being supported and its anticipated frequency of use when determining the actual hinge height.
2. Do not exceed parameters recommended by Hinge manufacturer.
3. Unequal Pairs: Utilize same hinge size for both leaves; Hinge height stipulated for the wider leaf shall govern.
4. Increase the hinge width as required to clear door trim where used. Ensure that door, when opened 180 Degrees will not contact the applied trim.

B. Continuous Geared Hinges:

1. General:

- a. Provide where specifically scheduled by Hardware Sets.
 - 1) Provide products which are labeled for fire ratings scheduled.
- b. Comply with BHMA A156.26.
- c. Heavy duty hinges (HD), pin-less assembly of three interlocking extrusions applied to full height of the door and frame without mortising.
- d. Mounting: Concealed (non-surface mounted) with door edge protector lip.
- e. Door leaf and jamb leaf shall be geared together for the entire length of the hinge and joined by a channel.
- f. Hinge knuckle: Monolithic appearance. Piano hinges visible knuckle separations are not considered equivalent.
- g. Designed to carry vertical door loads on minimum 3/4 IN acetal bearings through a full 180 degrees.
- h. Minimum of 32 bearings for a 7 FT length.
- i. Templated screw hole locations at door leaf and jamb leaf to simplify replacement.
- j. Base Products: 224HD by Ives.
- k. Optional Products:

- 1) FMHD by Pemko
 - 2) MCK25HD by McKinney
 - 3) 780-224HD by Hager.
2. **Anti-Ligature:**
- a. **Provide continuous geared hinge with (hospital tip) cover channel tapered at 45 degree angle at the top of the hinge.**
 - b. **Provide continuous geared hinge with hospital tip and every other bearing is supplied with a set screw to lock against the inside of the cover channel for additional security.**
- C. Continuous Pin and Barrel Type Hinges:
1. General:
 - a. Provide where specifically scheduled by Hardware Sets.
 - 1) Provide products which are labeled for fire ratings scheduled.
 - b. Comply with BHMA A156.26.
 - c. Heavy duty hinges (HD), pin and barrel assembly applied to full height of the door and frame without mortising.
 - d. Mounting: Concealed (non-surface mounted) standard, other profiles optional.
 - e. Designed to carry vertical door loads on 2 IN knuckle minimum, split nylon bearings at each separation.
 - f. Templated screw hole locations at door leaf and jamb leaf to simplify replacement.
 - g. Base Products: FM-300, US32D stainless steel by Markar.
 - h. Optional Products: McKinney; Select.
- D. Pivots:
1. General:
 - a. Comply with ANSI/BHMA-A156.4, Type CO7111.
 - b. Offset distance: 3/4 IN.
 - c. Quantity:
 - 1) For doors up to 60 IN tall: Use a minimum of one bottom pivot, one top pivot per leaf.
 - 2) Use one additional intermediate pivots for each additional 30 IN in height.
 - d. Upgrade from models listed below to those recommended by manufacturer:
 - 1) Where door weight exceeds capacity of models listed.
 - 2) Where door width exceeds capacity of models listed.
 - e. Upgrade from models listed as necessary for fire rated openings.
 2. Offset Pivots for Interior Doors:
 - a. Base Products:
 - 1) Bottom pivot: 117 by Rixon.
 - 2) Intermediate Pivot: 119 by Rixon.
 - 3) Top Pivot: 180 by Rixon.
 3. Offset Pivots for lead lined doors:
 - a. Base Products:
 - 1) Bottom pivot: L117 by Rixon.
 - 2) Intermediate Pivot: ML19 by Rixon.
 - 3) Top Pivot: L180 by Rixon.
 4. Offset Pivots for aluminum and hollow metal entrance doors:
 - a. Base Products:
 - 1) Bottom pivot: 195 by Rixon.
 - 2) Intermediate Pivot: M19 by Rixon.
 - 3) Top Pivot: 180 by Rixon.
 5. Double-acting pivots:
 - a. Type and Model indicated in HW-sets.
- E. **Invisible Hinges:**
1. **Description: Hinge completely mortised in door and jamb such that hinge is concealed when door is closed.**

2. **Construction: Constructed with interpolated, laminated links connected with non-removable, riveted pins which provide moving pivot points and allow 180 degrees opening.**
3. **Base:**
 - a. **418SS series by Soss.**
 - b. **Finish: Satin stainless steel, ANSI No. 630.**

2.10 ELECTRIC STRIKES

- A. General:
 1. BHMA A156.31 Grade 1.
 2. Provide UL-listed devices for continuous duty.
 3. Field selectable voltage (12/24 VDC).
 4. Field selectable operation; Fail Safe (FS)/Fail Secure (FSE).
 5. Latchbolt Monitor Switch where indicated.
 6. Compatible with locksets specified.
- B. Base Product:
 1. 6200 Series by Von Duprin; Coordinate model w/lock type and door/frame configurations.

2.11 ELECTROMAGNETIC LOCKS (MAGLOCKS)

- A. General Requirements:
 1. BHMA A156.23 Grade 1.
 2. Provide UL-listed devices for continuous duty.
 3. Voltage: 24 VDC.
 4. Automatic Voltage Selection (AVS).
 5. Magnetic Bond Sensor (MBS) and LED indicator.
 6. Relock Time Delay (RTD).
 7. Door Position Switch (DPS).
 8. Include brackets and adapter plates as required for conditions.
- B. MagLocks (standard type):
 1. Direct Hold electromagnet with minimum holding force: 1500 LBS per leaf.
 2. Anti-tamper switch (ATS).
 3. Base Product: M490P/492P by Schlage.
- C. MagLocks (Delayed Egress):
 1. Description: Self-continued unit designed to hold door securely until notified of request to exit.
 2. Direct Hold electromagnet with minimum holding force: 1500 LBS per leaf.
 3. Internal Plunger Switch to initiate delayed-egress cycle and auxiliary alarm.
 - a. Include auxiliary alarm described below.
 4. Base Product: M490DEP/M492DEP by Schlage.
- D. Alarm (for use with Delayed-Egress MagLocks):
 1. Adjustable Alarm tone.
 2. Adjustable Alarm volume up to 80 dB.
 3. Base Product: 1910 series by Schlage.
- E. REX Motion Sensor (by Div 08); for use with standard MagLocks (where indicated):
 1. Usage: Used in conjunction with a standard MagLock where indicated as a Request-to-Exit device used to momentarily release maglock.
 2. Passive Infrared (PIR) motion sensor.
 3. Designed to momentarily release MagLock for exiting.
 4. Adjustable re-latch time up to 60 seconds.
 5. LED status indicator.
 6. Base Product: Scan II by Schlage.

2.12 CONTROLLED ACCESS ACCESSORY ITEMS

- A. Keyswitch (KS):
 - 1. Maintained contacts unless otherwise noted; field-selectable to momentary action.
 - 2. Coordinate model variations as appropriate for application described.
 - 3. Red/green LED.
 - 4. Include Cylinder.
 - 5. Locate KS on walls where indicated.
 - 6. Base Product: 653-L2 by Schlage.
- B. Exit Button (EB):
 - 1. Definition: Wall-mounted, lock release button for emergency egress.
 - 2. Momentary contacts.
 - 3. Base Product: 623-RD-EX by Schlage.
- C. Remote Lock Release (RLR) Button - flush-mount in walls:
 - 1. Definition: Convenience releasing device, located remotely from opening, to release an electrified locking mechanism.
 - a. Where used with Automatic Doors: RLR shall also activate operator to open.
 - 2. Momentary contacts.
 - 3. Base Product: 623-GR by Schlage.
- D. Remote Lock Activation (RLA) Button - flush-mount, in-wall:
 - 1. Definition: Crisis lock activation device located remotely from opening, to activate and hold and electrified locking mechanism in the event of threat to facility or occupants.
 - a. Where used with Automatic Doors: RLA shall also disable other activation devices on the unsecured side.
 - 2. Alternate-action/Maintained contacts.
 - 3. Base Product: 623-GR-AA-DP by Schlage.
- E. Remote Lock Release (RLR) Button - Surface-mounted under or under cabinets:
 - 1. Definition: Convenience releasing device, located remotely from opening, for electrified locking mechanism.
 - a. Where used with Automatic Doors: RLR shall also activate operator to open.
 - 2. Momentary contacts.
 - 3. Base Product: 660-PB by Schlage.
- F. Remote Lock Activation (RLA) Button - Surface-mounted at or under cabinets:
 - 1. Definition: Crisis lock activation device located remotely from opening, to activate and hold and electrified locking mechanism in the event of threat to facility or occupants.
 - a. Where used with Automatic Doors: RLA shall also disable other activation devices on the unsecured side.
 - 2. Maintained contacts.
 - 3. Base Product: 660-T4 by Schlage.
- G. Card Readers (OF/CI):
 - 1. Furnished by Owner/Installed by Contractor.
- H. Door Position Switches (DPS):
 - 1. DPS provided with Security System.
- I. Request-to-Exit (REX) motion sensors by Security System:
 - 1. REX devices provided with Security System where necessary to shunt alarm.
 - 2. Provided/Installed by Security System Installer.
- J. Request-to-Exit (REX) motion sensors by Division 08:
 - 1. REX devices provided by Division 08 where used to momentarily drop a lock for free egress. (See Security System for REX Motion Sensors used to shunt alarm).
 - 2. Passive Infrared (PIR) technology, un-affected by Fire Alarm Strobes, camera flashes, ambulance lights etc.
 - 3. Adjustable latch time, up to 60 seconds.

4. Tilt adjustable.
 5. Selectable Voltage: 12-24 VDC.
 6. Base Product: Scan II by Schlage.
 7. Optional Product: XMS by Securitron; DS150i by Bosch.
- K. Miscellaneous Dry-Contact Relays:
1. SPDT, dry-contact relay (1 Form C) or similar variations as required for conditions.
 2. Typical voltage rating and type: 24 VDC or other voltage combinations for the circuits being interconnected.
- L. Fire Alarm Relays:
1. Specified with Fire Alarm System in Section 28 31 00.
- M. Low Voltage Power (centrally supplied by Security System):
1. Unless otherwise noted, Owner's Security System will provide low voltage power required to power items with current draw less than 2 AMP (24 VDC) including the following:
 - a. MagLocks.
 - b. Electric Strikes.
 - c. Electro-Mechanical Mortise Locksets.
 - d. Electro-Mechanical Cylindrical Locksets.
- N. Power Supplies (PS) – Division 08 devices installed local to opening:
1. General:
 - a. Capable of providing filtered, regulated power.
 - b. Include relay modules that interface with Fire Alarm System.
 2. Select power supply units that are:
 - a. Same brand as primary devices being powered.
 - b. Capable of receiving Fire Alarm Inputs.
 - c. Capable interfacing scheduled hardware with automatic operators.
 - d. Include time delay modules where required for described function.
 3. Base Product: Electrified Exit Devices.
 - a. Base Model: PS914 by Von Duprin.
 - b. Include options that interface with Fire Alarm and Automatic Operators.
 - c. Provide UL-listed power supply units where ever electrified Exit Devices are scheduled, including those with: Electric Latch Retraction, Electric Dogging, Electro-mechanical Trim, Alarmed Exiting and Delayed Egress.
- O. Power Transfer:
1. UL listed.
 2. Base Product: EPT-2 and EPT-10 by Von Duprin.
 3. Determine number of conductors as required by application.

2.13 OPERATING TRIM AND PROTECTIVES

- A. Kickplates and Armorplates:
1. General: Kickplates: ANSI/BHMA-A156.6, Type J100.
 2. Material: Stainless Steel; 0.050 IN thick.
 3. Heights:
 - a. Kickplates: 8 IN high.
 - b. Armorplates: 34IN high.
 4. Widths:
 - a. Single Doors: 2 IN less door width (LDW).
 - b. Pair Doors: 1 IN less door width (LDW).
 5. Bevel 3 edges of plates.
 6. Coordinate installation of plates with locks and other hardware items; Cut-out where necessary.
- B. Door Edging:
1. Material: Stainless Steel.
 2. Minimum Thickness: 0.032 IN thick.

3. Provide where indicated in HW-sets.
 4. Quantities:
 - a. Where Door Edging is indicated in HW-sets: Provide 1 at hinge edge and 1 at latch edge of door.
 - b. Exception: Omit from hinge edge where continuous geared hinges are scheduled.
 5. Base Product: KE31-1 by Trimco.
 6. Height: 34 IN.
 7. Provide cut-outs for hinges and similar items.
 8. Install with supplied screws.
- C. Door pulls, Pushplates and Pushbars:
1. General: ANSI/BHMA-A156.6.
 2. Door Pull (offset):
 - a. Tubular metal; 1 IN Diameter.
 - b. Size: 10 IN (CTC).
 - c. Base Product: Trimco 1191-3.
 - d. Optional Product: Ives 8190-0.
 3. Door Pull (straight):
 - a. Tubular metal; 1 IN Diameter.
 - b. Size: 10 IN (CTC).
 - c. Base Product: Trimco 1195-2.
 - d. Optional Product: Ives 8103-0.
 4. Pushplate:
 - a. Flat metal plate; 1/16 IN thick.
 - b. Size: 3-1/2 X 15 IN.
 - c. Base Product: Trimco 1001-2.
 - d. Optional Product: Ives 8200.
 - e. Provide cutouts as required for cylinders, deadbolts, etc.
 5. **Pushplate (half-circular):**
 - a. **Flat metal plate; 1/16 IN thick.**
 - b. **Size: 8 X 16 IN.**
 - c. **Base Product: Trimco 1041-4.**
 6. Pushbar:
 - a. Tubular metal; 1 IN Diameter.
 - b. Size: Length as required by door width.
 - c. Base Product: Trimco 1741.
 - d. Optional Product: Ives 9100.
 7. Pushbar & Offset Pull Set:
 - a. Tubular metal; 1 IN Diameter.
 - b. Pullbar Size: 10 IN (CTC).
 - c. Pushbar Size: Length as required by door width.
 - d. Base Product: Trimco 1737.
 - e. Optional Product: Ives 9190.
 8. Heavy-Duty Pushbar:
 - a. Plate metal; 3/8 IN thick; 2-1/2 IN high.
 - b. Projection: 3-1/8 IN.
 - c. Length (center-to-center): Door width less 6 IN.
 - d. Base Product: Trimco 1633.

2.14 FLUSHBOLTS

A. General:

1. Include Flushbolts of type indicated in hardware sets.
2. The following models are considered equivalent:

Flushbolts						
MFR	Manual Flushbolts		Constant-Latching Flushbolts		Automatic Flushbolts	
	Wood Doors	Metal Doors	Wood Doors	Metal Doors	Wood Doors	Metal Doors
Ives	FB358	FB458	FB61P	FB51P	FB41P	FB31P
Door Controls	790F	780F	945	845	942	842
Rockwood	557	550	1945	1845	1942	1842

B. Automatic Flushbolts (AFB):

1. Rub/Strike Plate: Provide on active door leaf for each Automatic Flushbolt.
2. Include Dustproof Strikes.

C. Constant-latching Flushbolts (CLFB):

1. Rub/Strike Plate: Provide on active door leaf for each Automatic Flushbolt.
2. Include Dustproof Strikes.

D. Manual Flushbolts (MFB):

1. Include Dustproof Strikes.

E. Dustproof Strikes:

1. Base: Ives DP2.
2. Include for all Flushbolts.

2.15 DOOR CONTROL DEVICES

A. Door Stops:

1. All door leaves shall have a Door Stop.
2. Use type as indicated in Hardware Set; however, where not specifically indicated in Hardware set provide following types:
 - a. Wall-mounted Door Stops:
 - 1) Provide where door swings more than 110 degrees, and encounters a wall.
 - 2) Exceptions:
 - a) Where door has pushbutton lockset, provide overhead type.
 - b) Where double-acting door will not accommodate wall stop on each side of door, provide overhead type.
 - 3) Base Manufacturer: Ives.
 - a) Wood Screw, plastic anchor: WS406CCV.
 - b) Screw, drywall anchor: WS407CCV.
 - b. Overhead Door Stops:
 - 1) Provide where door swings more than 110 degrees without encountering a wall:
 - a) Doors up to 45 IN wide: Overhead stop Glynn-Johnson 450 Series.
 - b) Doors over 45 IN wide: Overhead stop Glynn-Johnson 90 Series.
 - 2) Where exterior door does not have a closer, or does not swing against a wall: Overhead stop provide Glynn Johnson 90 series.
 - 3) Where exterior door has a closer and does not swing against a wall provide Glynn-Johnson 100 Series concealed overhead door stop.
 - 4) At Lead-lined doors provide Glynn-Johnson 90 series overhead door stop.
 - 5) Where double-acting door has no wall adjacent: Glynn-Johnson 100 Series concealed overhead door stop.

- B. Door Coordinators:
 - 1. Base: Ives, COR Series.
 - 2. Optional: Door Controls, 600 Series.
 - 3. General:
 - a. Provide where indicated.
 - b. Provide where Astragals are used.
 - 1) Exceptions:
 - a) Coordinators are not required at double egress pairs.
 - b) Coordinators are not required where manual Flushbolts are used.
 - c. Provide where Automatic and Constant-latching Flushbolts are used.
 - 4. If coordinator is provided for door which has stop which lacks enough surface area to allow proper mounting; provide shims, bars, etc., as required.
 - 5. Provide solid shim or other fascia piece that will result in surface being flush with edge of coordinator.
 - 6. Provide filler sections as required to finish opening.
- C. Kick-down Holder:
 - 1. Description: Units provide simple hold and release, activated with a touch of the foot.
 - 2. Material: Cast brass or aluminum construction with Stainless steel spring.
 - 3. Replaceable non-marring rubber shoes.
 - 4. Size for actual floor to door distance.
 - 5. Base Product: FS452 by Ives.

2.16 THRESHOLDS & WEATHERSTRIPPING

- A. General:
 - 1. Provide threshold and weatherstripping items as listed in Hardware Sets.
 - 2. Where doors/frame is extruded aluminum: Refer to Aluminum Door/Frame specifications of description of Perimeter Gasket products.
 - 3. BHMA A156.22; air leakage not to exceed 0.50 CFM/FT of crack when tested to ASTM E 283; with resilient or flexible seal strips that are easily replaceable and readily available from stocks maintained by manufacturer.
- B. Thresholds:
 - 1. ANSI/BHMA-A156.6.
 - 2. Material: Aluminum.
 - 3. UL and ADA compliant.
 - 4. Size for frame depth.
 - 5. Provide required bolt cutouts.
 - 6. Base Product:
 - a. Panic Threshold: S248 w/Pile Insert by Reese.
 - b. Saddle Thresholds with Thermal-break: S282, S471or S473 by Reese.
 - c. Bumper Seal Thresholds with Thermal-break: S281 w/Pile Insert by Reese.
 - d. Carpet-to-carpet conditions: S565 by Reece.
 - 7. The above items are meant to describe design intent. Contractor to verify that models indicated are appropriate for sill conditions and finishes.
 - a. Choose from above models wherever possible.
 - b. Reselect similar items where appropriate.
 - c. Include elevators and other miscellaneous adaptors where required.
- C. Weatherstripping:
 - 1. Use following items where doors/frames occur on the exterior envelope of the building:
 - a. Exception: Where exterior doors/frames are scheduled as ALUM, use weatherstripping provided by maker of aluminum door.
 - 2. Head and Jamb Stops:
 - a. Surface mounted, adjustable, screwed to frame stops.
 - b. Base Product: 775 by Reese.
 - 3. Sweeps:

- a. Base Product: 810 by Reese.
- 4. Meeting stiles of door pairs:
 - a. Base Product: M35 by Reese.
- D. Head Drip:
 - 1. Provide on exterior doors other than main entrance doors.
 - 2. Bed flange in sealant and screw to head of frame using non-corrosive fasteners.
 - 3. Base Product: R201 by Reese.
 - 4. Finish as scheduled.

2.17 FIRE AND SMOKE SEALS

- A. General:
 - 1. Provide at fire-rated, fire and smoke-rated, and smoke and draft control openings.
 - 2. Provide approved seals as necessary to achieve the fire/smoke labels indicated.
 - a. Fire and smoke seals are not specifically listed in Hardware sets but are nevertheless required as necessary to comply with applicable Building Codes and Fire Codes.
 - b. Refer to Doors Schedule and Floor Plans for indication of Fire Walls, Fire Barriers, Fire Partitions, Smoke Barriers, and Smoke Partitions. These terms are defined by applicable Building Codes and Fire Codes.
- B. Performance:
 - 1. Fire Door Assemblies (other than openings also requiring smoke control):
 - a. Maximum Air Leakage: Not to exceed 0.50 CFM/FT of crack length as tested according to ASTM E 283.
 - 2. Smoke- and Draft-Control Door Assemblies:
 - a. Where smoke- and draft-control door assemblies are required, provide seals that meet requirements of assemblies tested according to UL 1784 and installed in compliance with NFPA 105.
 - b. Air Leakage Rate: Maximum air leakage of 3 CFM/FT² at the tested pressure differential of 0.1 IN of water.
- C. Perimeter Gaskets:
 - 1. BHMA A156.22; UL-approved for conditions.
 - 2. Base Product – Frame perimeter seals at jambs and heads:
 - a. 797 by Reese; S88 by Pemko.
 - 3. Base Product - Meeting Stiles:
 - a. 93 by Reese; S305 by Pemko.
- D. Astragal:
 - 1. General:
 - a. Provide where indicated.
 - b. Where not indicated:
 - 1) Provide as necessary to obtain fire label.
 - 2) Provide on pair doors located on exterior wall.
 - 3) Provide on pair doors located on lead lined walls.
 - 2. Fire-rated Openings:
 - a. Flat steel:
 - b. UL listed for labeled doors.
 - 3. Exterior Openings:
 - a. Aluminum with weatherstripping gaskets.

2.18 SILENCERS

- A. General:
 - 1. Silencers are not specifically listed in Hardware sets but are nevertheless required as described in this Article.
 - 2. Provide Silencers at all openings except those receiving perimeter gasketing such as weather, fire, fire/smoke, and sound gaskets.

- B. Silencers:
 - 1. Diameter: 1/2 IN.
 - 2. Projection: 1/8 IN.
 - 3. Tamper-proof.
 - 4. Base Product – Steel Frames: SR64 by Ives.

2.19 MISCELLANEOUS HARDWARE ITEMS

- A. Hardware, miscellaneous:
 - 1. Standard items by Emhart, Ives, or Sargent.
- B. Key cabinet: Size to permit minimum 100% expansion of system.

2.20 ELECTROMAGNETIC DOOR HOLDERS (SPECIFIED ELSEWHERE)

- A. Magnetic Door Hold-open devices (MHO):
 - 1. Specified with Fire Alarm System in Section 28 31 00.
 - 2. MHO are indicated in HW-sets for coordination purposes.

2.21 AUTOMATIC DOORS

- A. Automatic Swinging Doors:
 - 1. Automatic Operators, Motion Sensors, Wall Switches, Presence Sensors for Automatic Swinging Doors: Specified in Section 08 71 13.
 - 2. Balance of Hardware specified herein.
 - 3. Frames and Door Leaves: Specified in sections for door and frame materials indicated (i.e. alum, wood, hollow metal etc.)
- B. Automatic Sliding Doors:
 - 1. Aluminum Frames, Door Panels, Tracks, Operators, Motion Sensors, Wall Switches, Presence Sensors, Electric Locking Mechanisms, Exit Devices and other elements of automatic sliding door package units: Specified in Section 08 42 29.
 - 2. Balance of Hardware specified herein.

2.22 EXTRA MATERIAL AND TOOLS

- A. General:
 - 1. Deliver to Owner extra materials from same production run as products installed.
 - 2. Package products with protective covering and identify with descriptive labels.
- B. Interchangeable cores:
 - 1. Provide 10 extra for each Master-keyed group.
- C. General Hardware Items:
 - 1. For the following items, provide a quantity of units equal to 1% of amount installed for each function and type; with a minimum of 1 unit each required:
 - a. Latchsets and Locksets.
 - b. Closers.
- D. Special Tools:
 - 1. Provide special wrenches and tools applicable to each different or special hardware component.
 - 2. Minimum Quantity: 6 sets of lock tools.
- E. Maintenance Tools:
 - 1. Provide maintenance tools and accessories supplied by hardware component manufacturer.
- F. Extra Keys:
 - 1. As specified in Article entitled: Operation – Keying

2.23 OPERATION - KEYING

- A. Establish keying system with Owner:

- B. Provide and set up complete visible card indexed system with key tags and control slips.
- C. Tag and identify keys and install in key cabinet.
- D. Provide 3 keys for each lock mechanism.
- E. Master key and key in groups as directed.
 - 1. Provide 6 master keys for each group.
- F. Grand Master key and key in as directed.
 - 1. Provide 6 copies of grand master keys.
- G. Great Grand Master key and key in as directed.
 - 1. Provide 6 copies of grand master keys.
- H. Key to existing master key system.
- I. Construction Keying:
 - 1. Provide cylinders with feature that permits voiding of construction keys without cylinder removal.
 - a. Provide 10 construction master keys.
 - 2. Provide construction keying for exterior doors and primary entrances to construction areas.
 - a. Construction Manager/General Contractor shall determine which openings will require construction keying based on sequence of construction activities.

2.24 HARDWARE SETS – SINGLE, INTERIOR DOORS

- A. **HW-01:**
 - 1. **Hinges**
 - 2. **Cylindrical Lockset, office F82**
 - 3. **Stop**
- B. **HW-02:**
 - 1. Hinges
 - 2. **Cylindrical Lockset, office F82**
 - 3. Stop
 - 4. Closer
 - 5. Door Position Switch (At doors 1017 & 1019A).
- C. **HW-03:**
 - 1. Hinges
 - 2. **Cylindrical Lockset, storeroom F86**
 - 3. Stop
- D. **HW-04:**
 - 1. Hinges
 - 2. **Cylindrical Lockset, storeroom F86**
 - 3. Stop
 - 4. Closer
 - 5. Kickplate
- E. **HW-05:**
 - 1. Hinges
 - 2. **Cylindrical Lockset, privacy F76**
 - 3. Stop
- F. **HW-06:**
 - 1. Hinges
 - 2. **Cylindrical Lockset, privacy F76**
 - 3. Stop
 - 4. Closer
 - 5. Kickplate

- G. HW-07:**
1. **Hinges**
 2. **Cylindrical Lockset, classroom F84**
 3. **Stop**
- H. HW-08:
1. Hinges
 2. **Cylindrical Lockset, classroom F84**
 3. Stop
 4. Closer
 5. Kickplate
- I. HW-09:
1. Hinges
 2. **Cylindrical Latchset, passage F75**
 3. Stop
 4. Kickplate
- J. HW-10S:
1. Hinges
 2. **Cylindrical Latchset, passage F75**
 3. Closer With Integral Stop
 4. Kickplate
- K. HW-12:
1. Hinges
 2. **Cylindrical Lockset, privacy F93 (lever)**
 - a. **5 IN Backset.**
 3. Stop
 4. Closer
 5. Sound Gasket
 6. Automatic door bottom Zero 361
- L. HW-13:
1. Hinges
 2. Closer
 3. Pushplate
 4. Pull
 5. Stop
 6. Kickplate
- M. HW-14:
1. Hinges
 2. Closer
 3. Pushplate
 4. Pull
 5. Stop
 6. Kickplate
 7. Deadbolt, Schlage B-663P.
 8. Cylinder
- N. HW-16:
1. Hinges
 2. Cylindrical Patient Latch (non-locking)
 3. Stop
 4. Kickplate
- O. HW-21A:**
1. **Continuous geared hinge**
 - a. **Anti-ligature**

- b. Hospital top and security set screws
- 2. **Anti-ligature Mortise Lockset:**
 - a. Classroom Function
- 3. **Stop**
- 4. **Wicket inset door:**
 - a. Invisible Hinge
 - 1) 3 hinges per door
 - b. Auxiliary Deadbolts (bored-type)
 - 1) Schlage B661P
 - 2) Key on outside
 - 3) Blank plate with exposed tamperproof screws inside.
 - c. 12 gauge welded flat plate astragal with rounded edges.
 - 1) Around entire wicket inset door.
 - 2) Paint to blend color with door finish.
 - 3) Tamper resistant fasteners.
 - d. Anti-Ligature Heavy Duty Security Flush Pull: Rockwood D89
- P. **HW-22:**
 - 1. Continuous geared hinge
 - a. Anti-ligature
 - b. Hospital top and security set screws
 - 2. Anti-Ligature Heavy Duty Security Flush Pull: Rockwood D89
 - 3. Half-circular Pushplate:
 - a. Base Product: Trimco 1041-4
 - 4. Anti-Ligature Deadbolt:
 - a. Key on inside Seclusion Room, Thumbturn on outside
 - 5. Stop
- Q. **HW-23A:**
 - 1. Continuous geared hinge
 - a. Anti-ligature
 - b. Hospital top and security set screws
 - 2. Anti-ligature Mortise Lockset:
 - a. Classroom Function
 - 3. Stop
- R. **HW-26:**
 - 1. Hinges
 - 2. Exit Device
 - a. Rim type
 - b. Fire Rated
 - c. Lever Trim
 - 3. Closer
 - 4. Stop
 - 5. Kickplate
 - 6. Cylinder
- S. **HW-30A:**
 - 1. Hinges.
 - 2. Closer
 - 3. Exist Device
 - a. Exit Device shall have Signal Switch to alarm.
 - b. Provide push pad with: “EMERGENCY EXIT ONLY – PUSH TO OPEN AND SOUND ALARM”
 - c. Mortise type
 - d. Fire Rated
 - e. Exit Only Trim
 - f. Provide with key switch to shunt alarm.

4. Kickplate
5. Weatherstripping
6. Threshold
7. Head Drip
8. Overhead Stop
9. DPS provided with Security System.
 - a. Low Voltage Power (centrally supplied by Security System)

T. HW-30D:

1. Hinges
2. Closer
3. Exit Device
 - a. Mortise type
 - b. Fire Rated
 - c. Lever Trim
4. Kickplate
5. Weatherstripping
6. Threshold
7. Head Drip
8. Overhead Stop
9. REX and DPS provided with Security System.
 - a. Low Voltage Power (centrally supplied by Security System)

U. HW-33:

1. Hinges
2. Continuous Geared Hinge
3. Cylindrical Lockset, storeroom F86
 - a. Lever to Roof always fixed, Entry to Roof with key only.
 - b. Entry back into building with lever, always unlocked.
4. Latch Guard
5. Delayed-Action Closer
6. Weatherstripping & Sweep
7. Threshold
8. Head Drip
9. Stop
10. Overhead Stop

2.25 HARDWARE SETS – DOUBLE EGRESS (INTERIOR)

A. HW-38M:

1. Hinges
2. 2 Closers
3. 2 CVR Exit Devices
 - a. Exit Only Trim
 - b. Fire Rated
 - c. Less Bottom Rod
4. 2 Kickplates
5. Stops
6. Astragal if required by label
7. 2 Magnetic holds (by Section 28 31 00)

2.26 HARDWARE SETS – PAIR DOORS (SWINGING SAME DIRECTION)

A. HW-40:

1. Hinges
2. 2 Closers
3. Constant Latching Flushbolts (inactive leaf)
4. Automatic Flushbolts (inactive leaf)
5. Mortise Lockset, storeroom F07

6. 2 Kickplates
 7. 2 Stops
 8. Astragal if required by label
 - a. Include Coordinator (or Open Back strike as permitted by label).
 9. Dustproof strike
- B. HW-43P:
1. Hinges
 2. 2 Closers, Delayed Action Type
 3. Manual Flushbolts (inactive leaf)
 4. Dustproof strike
 5. Mortise Patient Latchset, (Locking Type)
 - a. Mortise Lockbody w/Patient Paddles
 - b. Base Product: HL6-9070 (Classroom Function) by Glynn Johnson
 6. Astragal if required by label
 - a. Provide Coordinator.
 7. 2 Stops
 8. 2 Door Edging (strike sides)
 9. 2 Kickplates
- C. HW-45M:
1. Hinges
 2. 2 Closers
 3. 2 CVR Exit Devices
 - a. Fire Rated.
 - b. Less Bottom Rod
 - c. One with Lever Trim; one with Exit Only Trim.
 4. 2 Stops
 5. 2 Kickplates
 6. Astragal if required by label
 - a. Include Coordinator.
 7. 2 Magnetic holds (by Section 28 31 00)

2.27 HARDWARE SETS – CLOSETS AND MISCELLANEOUS

- A. HW-73:
1. Bypass Sliding Door Hardware Set: L. E. Johnson Products Model 200WF with Fascia.
 - a. 200 Series Track with Mounting Brackets.
 - b. Clear Satin Anodized Fascia.
 - c. Set of 2020 4-Wheel Ball Bearing Door Hangers and Brackets.
 - d. Wall Mounted Door guide at Door Bottom.
 - e. Track Stops at Each End of Track.
 - f. Provide Owner with Dedicated Tools as Needed.
 2. 2 Pulls.
 - a. Hager 27N (ADA Compliant).

2.28 HARDWARE SETS – RADIATION RESISTANT DOORS

- A. HW-81:
1. Pivots
 2. Mortise Patient Latch (locking type):
 - a. Mortise Lockbody w/Patient paddles.
 - b. Base Product: HL6-9070 (classroom function) by Glynn Johnson.
 - c. Lead Lined.
 3. Closer
 4. Stop
 5. Kickplate (adhesive applied)

2.29 HARDWARE FOR AUTOMATIC SWINGING DOORS

- A. General:
 - 1. Operators, Wall Switches (WS), Touch-less Wall Switches (TWS), Motion Sensors (MS) etc. are specified in Section 08 71 13.
 - 2. Provide additional components as required to comply with Functional Descriptions indicated.
 - 3. Provide additional items as required to comply with Fire Label.
 - 4. Provide additional items as required to comply with applicable ANSI/BHMA standards.
- B. AU-21:
 - 1. 2 SDO Operators (ANSI/BHMA 156.10).
 - a. Safety Sensors as required by ANSI/BHMA 156.10.
 - 2. Continuous Geared Hinges.
 - 3. 2 Pushplates.
 - 4. 2 Pulls.
 - 5. 2 Kickplates.
 - 6. 2 Armorplates
 - 7. Door Edging
 - 8. Activation Devices:
 - a. Ingress: Wallswitch (WS).
 - b. Egress: Wallswitch (WS).
 - 9. FUNCTIONAL DESCRIPTION:
 - a. Ingress: Free auto ingress by TWS, or manually by Pull.
 - b. Egress: Free auto egress by TWS, or manually by Pushplate.
 - c. Loss of Power/Fire Alarm: No latching required.
- C. AU-22:
 - 1. 2 FDO Operators (ANSI/BHMA 156.10).
 - a. Safety Sensors as required by ANSI/BHMA 156.10.
 - 2. Continuous Geared Hinges.
 - a. Cut-out for Power Transfer.
 - 3. 2 CVR Exit Devices:
 - a. Electric Latch Retraction.
 - b. Fire Rated.
 - c. Lever Trim.
 - d. Cylinders.
 - e. Less Bottom Rod.
 - 4. 2 Power Transfers.
 - 5. Power Supply
 - a. For electrified Exit Devices.
 - b. Include AO card
 - 6. Activation Devices:
 - a. Ingress: Cardreader (by Security System Installer).
 - b. Egress: Touch-less Wall Switch (TWS).
 - 7. 2 Kickplates
 - 8. Stops.
 - 9. REX and DPS by Security Provider.
 - 10. FUNCTIONAL DESCRIPTION:
 - a. Ingress: Auto ingress by Reader; Manual ingress by key-in-trim (trim normally locked).
 - b. Egress: Free auto egress by TWS; Free manual egress by panic bars.
 - c. Loss of Power: Both doors to remain positively latched.
- D. AU-24:
 - 1. 2 FDO Operators (ANSI/BHMA 156.10).
 - a. Safety Sensors as required by ANSI/BHMA 156.10.
 - 2. Continuous Geared Hinges.

- a. **Cut-out for Power Transfers.**
 - 3. **2 CVR Exit Devices:**
 - a. **Electric Latch Retraction.**
 - b. **Fire Rated.**
 - c. **Lever Trim.**
 - d. **Cylinders.**
 - e. **Less Bottom Rod.**
 - 4. **2 Power Transfers.**
 - 5. **Power Supply**
 - a. **For electrified Exit Devices.**
 - b. **Include AO card**
 - 6. **2 Delayed-Egress MagLocks:**
 - a. **Includes on-board sensor that initiates delay-egress cycle**
 - 7. **Alarm.**
 - 8. **Power Supply for MagLocks (combined w/Power Supply for Exit Devices if possible)**
 - 9. **Activation Devices:**
 - a. **Ingress: Touch-less Wall Switch (TWS).**
 - b. **Egress: Cardreader (by Security System Installer).**
 - 10. **Keyswitch:**
 - a. **Used to control MagLock (ON/OFF)**
 - 11. **2 Kickplates**
 - 12. **Stops.**
 - 13. **DPS by Security Provider.**
 - 14. **FUNCTIONAL DESCRIPTION:**
 - a. **Ingress: Free auto ingress by TWS; Free Manual ingress by trim (trim normally not locked).**
 - b. **Egress: Auto egress by Reader; Manual egress allowed by panic bars after short delay but alarm to sound.**
 - c. **Loss of Power: Both doors to remain positively latched.**
 - d. **Fire Alarm: Release MagLocks, Exit Device to remain latched.**
- E. **AU-30:**
- 1. **2 FDO Operators (ANSI/BHMA 156.10).**
 - a. **Safety Sensors as required by ANSI/BHMA 156.10.**
 - 2. **Continuous Geared Hinges.**
 - a. **Cut-out for Power Transfer**
 - 3. **2 CVR Exit Devices**
 - a. **Electric Latch Retraction.**
 - b. **Fire Rated.**
 - c. **Less Bottom Rod**
 - 4. **2 Power Transfers.**
 - 5. **Power Supply**
 - a. **For electrified Exit Devices.**
 - 6. **Activation Devices:**
 - a. **Ingress: Wallswitch (WS).**
 - b. **Egress: Wallswitch (WS).**
 - 7. **2 Kickplates**
 - 8. **2 Armorplates**
 - 9. **Door Edging**
 - 10. **Stops.**
 - 11. **Astragal, if required for Fire Label.**
 - 12. **FUNCTIONAL DESCRIPTION:**
 - a. **Ingress: Free auto ingress by WS, or manually by panic bar.**
 - b. **Egress: Free auto egress by WS, or manually by panic bar.**
 - c. **Loss of Power: Panic devices to remain latched.**
 - d. **Fire Alarm: Panic devices to remain latched.**

F. AU-34:

1. 2 FDO Operators (ANSI/BHMA 156.10).
 - a. Safety Sensors as required by ANSI/BHMA 156.10.
2. Continuous Geared Hinges.
 - a. Cut-out for Power Transfer
3. 2 CVR Exit Devices:
 - a. Electric Latch Retraction.
 - b. Fire Rated.
 - c. Less Bottom Rod
4. 2 Power Transfers.
5. For electrified Exit Devices.
6. 2 Delayed-Egress MagLocks:
 - a. Includes on-board sensor that initiates delay-egress cycle
7. 2 Alarms.
8. Power Supply for MagLocks (combined w/Power booster if possible)
9. Activation Devices:
 - a. Ingress: Cardreader (by Security System Installer).
 - b. Egress: Cardreader (by Security System Installer).
10. 2 Keyswitches:
 - a. Each used to control 1 MagLock (ON/OFF)
11. 2 Kickplates
12. Stops.
13. Astragal, if required for Fire Label.
14. DPS by Security Provider.
15. FUNCTIONAL DESCRIPTION:
 - a. Ingress: Auto ingress by Reader #1. Manual ingress permitted in emergency, Delayed Egress MagLock #1 to release after short delay period (but alarm to sound). Staff may also ingress manually by disarming Maglock #1 with keyswitch #1.
 - b. Egress: Auto ingress by Reader #2. Manual ingress permitted in emergency, Delayed Egress MagLock #2 to release after short delay period (but alarm to sound). Staff may also ingress manually by disarming Maglock #2 with keyswitch #2.
 - c. Loss of Power: MagLocks to release for free manual use of both leaves.
 - d. Fire Alarm signal to release MagLocks. Exit Devices to remain positively latched.

G. AU-34M:

1. **2 FDO Operators (ANSI/BHMA 156.10).**
 - a. **Safety Sensors as required by ANSI/BHMA 156.10.**
2. **Continuous Geared Hinges.**
 - a. **Cut-out for Power Transfer**
3. **2 SVR Exit Devices**
 - a. **Electric Latch Retraction.**
 - b. **Fire Rated.**
 - c. **Exit Only Trim**
 - d. **Less Bottom Rod**
4. **2 Power Transfers.**
5. **For electrified Exit Devices.**
6. **2 Delayed-Egress MagLocks:**
 - a. **Includes on-board sensor that initiates delay-egress cycle**
7. **2 Alarms.**
8. **Power Supply for MagLocks (combined w/Power booster if possible)**
9. **Activation Devices:**
 - a. **Ingress: Cardreader (by Security System Installer).**
 - b. **Egress: Cardreader (by Security System Installer).**
10. **2 Keyswitches:**
 - a. **Each used to control 1 MagLock (ON/OFF)**
11. **2 Magnetic Door Hold-open devices (MHO)**

- a. MHO to be used only when doors are not locked and alarmed.
- 12. 2 Kickplates
- 13. Stops.
- 14. Astragal
- 15. DPS by Security Provider.
- 16. FUNCTIONAL DESCRIPTION:
 - a. Ingress: Auto ingress by Reader #1. Manual ingress permitted in emergency, Delayed Egress MagLock #1 to release after short delay period (but alarm to sound). Staff may also ingress manually by disarming Maglock #1 with cardreader #1 or manual keyswitch shunting alarm.
 - b. Egress: Auto ingress by Reader #2. Manual ingress permitted in emergency, Delayed Egress MagLock #2 to release after short delay period (but alarm to sound). Staff may also ingress manually by disarming Maglock #2 with cardreader #2 or manual keyswitch shunting alarm.
 - c. Alarms may be disarmed by staff manually with key switch.
 - d. Loss of Power: MagLocks to release for free manual use of both leaves.
 - e. Fire Alarm signal to release MagLocks. Exit Devices to remain positively latched.

2.30 CONTROLLED ACCESS (CA) HARDWARE SETS

A. CA-03:

- 1. Hinges.
- 2. Mortise Lockset, storeroom F07
- 3. Stop
- 4. Closer
- 5. Kickplate
- 6. Electric Strike:
 - a. Fail Secure (FSE).
 - b. Power Supply as required.
 - c. Latchbolt Monitor Switch (wired as request-to-exit switch to shunt alarm).
- 7. Cardreader (by Security System Installer).
- 8. Door Position Switch (by Security System Installer).
- 9. FUNCTIONAL DESCRIPTION:
 - a. In by Cardreader or override by key
 - b. Free egress by inside trim; LBM to shunt alarm.

B. CA-03B:

- 1. Continuous geared hinge.
 - a. Anti-Ligature
 - b. Hospital to and security set screws
- 2. Electrified Lockset;
 - a. Electric Locking (EL); Fail Safe.
 - b. RX micro-switch.
- 3. Low voltage Power supplied by Security System.
- 4. Stop
- 5. Closure
- 6. Kickplate
- 7. 2 Cardreaders (by Security System Installer).
- 8. Door Position Switch (by Security System Installer)
- 9. FUNCTION DESCRIPTION:
 - a. Ingress by Cardreader or override by key
 - b. Egress by Cardreader or override by key
 - c. Loss of Power (EL): Release lever (unlock).
 - d. Fire Alarm (EU): Maintain fixed lever (maintain lock).

C. CA-04:

- 1. Hinges.
- 2. Closer

3. Delayed Egress Exit Device:
 - a. Mortise type
 - b. Rim type
 - c. Fire Rated.
 - d. Lever Trim.
 - e. On-board Alarm
 - f. Cylinder(s)
 4. Local Power Supply (Div 08)
 5. Power Transfer
 6. Delayed-Egress MagLock:
 - a. Includes on-board sensor that initiates delay-egress cycle.
 7. Alarm.
 8. Power Supply for MagLock (combined w/Power Supply for Exit Device if possible)
 9. Keyswitch:
 - a. Used as a master control for MagLock (ON/OFF)
 10. Stop
 11. Kickplate.
 1. 2 Cardreaders (by Security System Installer).
 2. Door Position Switch (by Security System Installer).
 3. FUNCTIONAL DESCRIPTION:
 - a. Normal condition:
 - 1) Ingress or Egress by cardreaders. Cardreader activation temporally shunts alarm.
 - 2) Key override for Ingress or Egress. Key access temporally shunts alarm
 - b. Egress by panic bar but only after alarm and 15-second delay.
 - c. Loss of Power: Release MagLock; Free ingress/egress.
 - d. Fire Alarm: Release MagLock; Free ingress/egress.
- D. CA-05A:
1. Hinges.
 2. Electrified Lockset:
 - a. Electric Unlocking (EU); Fail Secure.
 - b. RX micro-switch.
 3. Low voltage Power supplied by Security System.
 4. Stop
 5. Closer
 6. Kickplate
 7. Cardreader (by Security System Installer).
 8. Door Position Switch (by Security System Installer).
 9. FUNCTIONAL DESCRIPTION:
 - a. In by Cardreader or override by key
 - b. Free egress by inside trim; RX-switch in lever to shunt alarm.
 - c. Loss of Power (EU): Maintain fixed lever (maintain lock).
 - d. Fire Alarm (EU): Maintain fixed lever (maintain lock).
- E. CA-06:
1. Hinges.
 2. Closer
 3. Mortise Latchset, Passage F01
 4. MagLock.
 5. Local Power Supply (by Div 08)
 6. Keyswitch:
 - a. Master control of MagLock (ON/OFF).
 7. Access Device (momentary override of magnet for ingress):
 - a. Cardreader (by Security System Installer).
 8. Exit Button:
 - a. Redundant release mechanism for MagLock

9. Door Position Switch (by Security System Installer).

10. Stop

11. Kickplate.

12. FUNCTIONAL DESCRIPTION:

a. Ingress by Cardreader

b. Egress by Cardreader.

F. CA-10:

1. Hinges.
2. 2 Closers:
 - a. Delayed-Action type.
3. 2 CVR Exit Devices:
 - a. Fire-rated.
 - b. Non-Fire Rated (doggable)
 - c. One device w/Lever trim and Electric Latch Retraction (ELR)
 - d. One device w/Exit Only Trim (no ELR)
 - e. Less Bottom Rod.
 - f. Cylinder(s)
 - g. Rx-switch in panic bar
4. Local Power Supply (by Div 08)
5. 2 Power Transfers.
6. 2 Stops.
7. 2 Kickplates
8. Access Device:
 - a. Cardreader (by Security System Installer).
9. 2 Door Position Switch (by Security System Installer).
10. REX Motion Sensor (by Security System Installer).
11. FUNCTIONAL DESCRIPTION:
 - a. Manual ingress by Reader plus panic device .
 - b. Free manual Egress (both leaves); Rx-switch to shunt alarm.
 - c. Loss of Power: Release MagLock; Free ingress/egress.
 - d. Fire Alarm: Release MagLock; Free ingress/egress.

G. CA-14:

1. **Continuous Geared Hinges.**
 - a. **Cut-out for Power Transfer**
2. **2 Closers**
3. **2 Delayed Egress Exit Devices:**
 - a. **Concealed Vertical Rod type**
 - b. **Less bottom rod**
 - c. **Fire Rated.**
 - d. **Exit-Only Trim.**
 - e. **Signal Switch**
 - f. **On-board Alarm**
 - g. **Cylinder**
4. **2 Power Transfers.**
5. **Local Power Supply (Div 08)**
6. **2 Kickplates**
7. **Stops.**
8. **Astragal**
9. **Related items by Security System:**
 - a. **2 Cardreaders**
 - b. **2 Door Position Switches**
10. **FUNCTIONAL DESCRIPTION:**
 - a. **Ingress:**
 - 1) **Authorized ingress by Reader #1.**
 - 2) **Emergency ingress by panic bar #1 after alarm and 15-second delay.**

- b. Egress:
 - 1) Authorized egress by Reader #2.
 - 2) Emergency egress by panic bar #2 after alarm and 15-second delay.
- c. Loss of Power: Allow free and immediate egress/ingress. Maintain positive latching.
- d. Fire Alarm: Allow free and immediate egress/ingress. Maintain positive latching.

H.CA-16:

- 1. Continuous Geared hinge
- 2. Electrified Lockset:
 - a. Electric Locking (EL); Fail Safe.
 - b. RX micro-switch.
- 3. Low voltage Power supplied by Security System.
- 4. Stop
- 5. Closer
- 6. Kickplate
- 7. Weatherstripping, Threshold and Sweep.
- 8. Head Drip
- 9. 2 Cardreaders (by Security System Installer).
- 10. Door Position Switch (by Security System Installer).
- 11. FUNCTIONAL DESCRIPTION:
 - a. To Roof Courtyard by Cardreader or override by key
 - b. Egress from Roof Courtyard by Cardreader or override by key
 - c. Loss of Power (EL): Release lever (unlock).
 - d. Fire Alarm (EL): Release lever (unlock).

PART 3 - EXECUTION

3.1 INSPECTION

- A. Verify suitability of substrate to accept installation.
- B. Installation constitutes responsibility for performance.
- C. Verify that power supply is available to electrically operated devices.

3.2 INSTALLATION

- A. Install in accordance with manufacturer's installation instructions, supervised or inspected by an AHC.
- B. Fit hardware before final door finishing.
- C. Permanently install hardware after finishing operations are complete.
- D. Protect finishes by temporary coverings as required.

E. Mounting Heights:

Mounting Heights of Hardware	
Item	Height ^{1,2} (to Item Centerline)
Mortise Locksets	40-5/16 IN AFF to Centerline of Strike ³
Cylindrical Locksets	
Patient Latches	
Exit Devices	
Door Pulls	42 IN AFF to Centerline of Pull
Pushplates	45 IN AFF to Centerline of Plate
Auxiliary Deadbolts	48 IN AFF to Centerline of Strike
Butt Hinges (and Pivots)	Top Hinge: Not more than 11-3/4 IN down from frame
	Bottom Hinge: Not more than 13 IN above floor
	Equally spaced between Top and Bottom Hinges. Refer to Part 2 for quantity required.
Other Items	Comply with SDI and DHI Recommendations

Footnotes/Additional Requirements:

1. Mounting Heights shall also comply with ADA and ICC/ANSI 117.1
2. Mounting Heights shall also comply with prevailing Building Code and Fire Codes.
3. Deviation of from listed height will be allowed up to + 1-1/2 IN provided this does not cause a conflict of between the lock and lite cutouts.

F. Install hardware with fasteners concealed where not required by code to be exposed.

G. Coordinate installation of electric access control hardware.

1. Hardware installer to be responsible for coordination with electrical installer for low voltage installations.

H. Door Position Switches (DPS):

1. Coordinate door and frame preparations with door and frame suppliers, and Security System installer as appropriate.
2. Locate in frame head approximately 4 IN from latching door edge, unless otherwise instructed.

3.3 ADJUST AND CLEAN

A. Adjust and check each operating item of hardware to ensure proper operation or function.

1. Lubricate moving parts with lubricant recommended by manufacturer.
2. Replace units which cannot be adjusted and lubricated to operate smoothly.

B. Conversion of Construction Keying to Permanent (by Contractor):

1. Convert cylinders from Construction to Permanent configuration at time of Substantial Completion.
2. Demonstrate conversion method to Owner's facility personnel, making certain Owner's team understands methodology.

C. Approximately six months after substantial completion, check and readjust to assure proper function of doors and hardware.

1. Clean and lubricate operational items.
2. Replace items which have deteriorated or failed.
3. Prepare a written report of current and predictable problems in operation of hardware.
4. Report visit and furnish copy of report to Owner with copy to Architect.

D. When hardware is installed more than one month prior to final acceptance or occupancy, during week prior to acceptance or occupancy, make a final check and adjustment of hardware items.

1. Remove temporary coverings.
 2. Clean and lubricate as necessary to assure proper function and finish.
 3. Adjust door control devices to compensate for operation of heating and ventilating equipment.
- E. Instruct Owner's personnel:
1. Operating and maintenance procedures.
 2. Key control system.
 3. Methodology used to re-key cylinders from Construction to Permanent configuration.
- F. Prior to substantial completion instruct Owner's personnel in systems operation.
1. Standard system operation and maintenance.
 2. Modification of codes.
 3. Acquisition, monitoring and scheduling of ID cards.
 4. Instruction in software applications.

END OF SECTION

SECTION 08 88 53
SECURITY GLAZING (Revised AD-2)

PART 1 - GENERAL

1.1 SUMMARY

- A. Furnish labor, materials, tools, equipment, and services for Security Glazing in accordance with provisions of Contract Documents.
- B. Completely coordinate with work of other trades.

1.2 QUALITY ASSURANCE

- A. Glass Standards:
 - 1. Flat glass ASTM-C1036.
 - 2. Flat glass, heat treated ASTM-C1048.
 - 3. NFPA-80 Standard for Fire Doors and Windows.
 - 4. Test Method for Strength of Glass by Flexure, ASTM-C158.
 - 5. Standard for Flat Glass-Clad Polycarbonate, ASTM-C1349.
- B. Glazing Standards:
 - 1. Glass Association of North America, "Glazing Manual" and "Sealant Manual".
 - 2. SIGMA "Glazing Recommendations for Sealed Insulating Glass Units".
- C. Meet or exceed following:
 - 1. American National Standards Institute Z97.1-1984 performance specifications and methods of test for safety.
- D. Experience criteria:
 - 1. Manufacturers:
 - a. Minimum 5 years experience manufacturing specified item.
 - b. Minimum 5 year successful installation on correctional facility of like size.
 - 2. Installers:
 - a. Approved by manufacturer for installation of specified items.
 - b. Minimum 3 years experience installing specified items.
 - 3. If items 1 or 2 are not complied with, Architect reserves right to require:
 - a. Minimum 3 year extension of base warranty.
 - 4. When required by Architect, provide list of institutions where product has been used successfully.

1.3 SUBMITTALS

- A. Shop Drawings:
 - 1. Indicating glass type intended for use in each opening.
- B. Samples:
 - 1. 12 x 12 IN square of each type, glass and thickness.
- C. Project Information:
 - 1. Test reports certifying that materials meet requirements and tests specified herein.
 - 2. Letter from manufacturer certifying installer is qualified for installation of specified products.
- D. Contract Closeout Information:
 - 1. Warranty.
 - 2. Provide cleaning and maintenance instructions.

1.4 EXTRA MATERIAL

- A. When quantity of any individual size and type is 20 or more, provide 5% extra stock for replacement use.

1.5 WARRANTY

- A. Single-ply polycarbonate:
 - 1. Provide 10 year written warranty:
 - a. Against units becoming opaque or yellowing under normal wear and tear.
 - b. Against coating failure by delamination or flaking of coating from substrate.
- B. Glass-clad Polycarbonate:
 - 1. Provide 5 year written warranty:
 - a. Against delamination.
 - b. Against units becoming opaque under normal wear and tear.
- C. Laminated polycarbonate:
 - 1. Provide 5 year written warranty:
 - a. Against delamination.
 - 2. Provide 10 year written warranty:
 - a. Against units becoming opaque or yellowing under normal wear and tear.
 - b. Against coating failure by delamination or flaking from substrate.
- D. Warranty to include removal of failed units, furnishing and installation of replacement units.
 - 1. Be willing and able to provide replacement units within one month.
- E. Warranty to be signed by installer to cover weather tightness of installation including air and water integrity. Warranty to be signed by manufacturer/ fabricator against failure.

PART 2 - PRODUCTS

2.1 ACCEPTABLE MANUFACTURERS

- A. Base:
 - 1. As indicated for individual products.

2.2 MATERIALS

- A. Setting Blocks:
 - 1. Shore A hardness of 85 (+/-5).
 - 2. Verify compatibility with glazing materials and frame.
 - 3. Base: Santoprene by Monsanto
- B. Glazing Tape:
 - 1. Preshimmed.
 - 2. Verify compatibility with glazing materials and frame.
 - 3. Base: Tremco Polyshim II.
- C. Sealant:
 - 1. Silicone, non-sag.
 - 2. Comply with FS TT-S-001543A.
 - 3. Verify compatibility with glazing materials and frame.
 - 4. Base: Silpruf by General Electric Co.
 - 5. Optional: Construction 1200 by General Electric Co. 999 by Dow Corning, Spectrem II by Tremco.
- D. Other manufacturers desiring approval comply with Section 00 26 00.

2.3 GLASS TYPES SCHEDULE

- A. Glass Type S-3:
 - 1. Single-ply polycarbonate, clear.
 - 2. 1/2 IN thickness.
 - 3. Mar-resistant outer coating.
 - a. Comply with ASTM-D1044, Z-261 Taber Abrasion Resistance Test.
 - b. 8% Haze per 100 cycles.
 - 4. Acceptable Manufacturers:
 - a. Base: "Lexan MR10" by Sabic Innovative Plastics
 - b. Optional: "Makrolon AR2" by Sheffield Plastics; "Tuffak CM2" by Atohaas.
 - 5. Exterior applications (Alternate 4):
 - a. Acceptable Manufacturers:
 - 1) Base: "Lexan XL10" by Sabic Innovative Plastics
 - 2) Optional: "Makrolon SL" by Sheffield Plastics; "Tuffak XL" by Atohaas.

AD-2: Section 08 88 53; 12/06/2013: Add Paragraph 2.3, B. (S-1).

- B. Glass Type S-1:
 - 1. Single-ply polycarbonate, clear.
 - 2. 1/4 IN thickness.
 - 3. Mar-resistant outer coating.
 - a. Comply with ASTM-D1044, Z-261 Taber Abrasion Resistance Test.
 - b. 8% Haze per 100 cycles.
 - 4. Acceptable Manufacturers:
 - a. Base: "Lexan MR10" by Sabic Innovative Plastics
 - b. Optional: "Makrolon AR2" by Sheffield Plastics; "Tuffak CM2" by Atohaas.

PART 3 - EXECUTION

3.1 INSPECTION

- A. Examine framing or glazing surfaces, backing, stop design, and conditions under which glazing is to be installed.

3.2 INSTALLATION

- A. Do not install glass with edge damage.
- B. Contractor is responsible for correct glass size for each opening, within tolerances and dimensions established.
 - 1. Comply with manufacturers recommendations for edge clearance and minimum bite.
- C. Comply with recommendations of manufacturers, except where more stringent requirements are indicated.
 - 1. As a minimum comply with GANA Glazing and Sealant Manuals and SIGMA Glazing recommendations.
- D. Setting Blocks:
 - 1. Install at quarter points in sealant or adhesive bed.
 - 2. Size to provide 0.1 IN of length per square foot of glass area, but not less than 4 IN.
 - 3. Blocks shall be 1/16 IN less than full channel width.
 - 4. Height should provide the recommended nominal bite and minimum edge clearance.
- E. Glazing Tape:
 - 1. Install continuous glazing tape both sides of glazing of recommended size and thickness.
- F. Silicone Cap Bead:
 - 1. Install continuous bead both sides of glass.

2. Force sealant into channel to eliminate air pockets and voids and to ensure complete bond of sealant to glazing and substrate.
 3. Tool exposed surfaces to provide substantial "wash" away from glass.
 4. Color: Black.
- G. Immediately after installation, attach crossed streamers to framing, held away from glass.
- H. Do not apply anything to surfaces of glass.
- I. Remove and replace damaged glass.

3.3 CLEANING

- A. Maintain glass reasonably clean during construction, so that it will not be damaged by corrosive action and will not contribute to the deterioration of other materials.
- B. Wash and polish glass on both faces not more than 7 days prior to Substantial Completion of project.
1. Comply with glass manufacturers recommendations.

END OF SECTION

SECTION 23 09 93

SEQUENCE OF OPERATIONS

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes control sequences for HVAC systems, subsystems, and equipment.
- B. See Division 23 Section "HVAC Instrumentation and Controls" for control equipment and devices and for submittal requirements.

1.2 WORK INCLUDED

- A. Sequence of operation is hereby defined as the manner and method by which controls function. Requirements for each type of control system operation are specified in this section.

1.3 CONTROL SEQUENCES

- A. Central Station Air Handling Units.
- B. Humidifiers.
- C. Four-Pipe Fan Coil Units.
- D. Variable Air Volume Terminal Boxes.
- E. Radiant Heating Panels.
- F. Fans.
- G. Packaged Heat Exchanger Systems.
- H. Heating Hot Water Pumps.
- I. Glycol Feeder System.
- J. Medical Air Compressors.
- K. Medical Vacuum Units.
- L. Steam Inline Vortex Meter.
- M. Storm Drain Piping Heat Trace System.
- N. Submersible Sewage Pump System.

1.4 SUBMITTALS

- A. Shop Drawings: Submit Shop Drawings for each system automatically controlled, containing the following information:
 - 1. Schematic flow diagram of system showing fans, pumps, coils, dampers, valves and control devices.
 - 2. Label each control device with setting or adjustable range of control.
 - 3. Indicate factory and field wiring.
 - 4. Indicate each control panel required, with internal and external wiring clearly indicated. Provide detail of panel face, including controls, instruments and labeling. Include verbal description of sequence of operation.
- B. Maintenance Data: Include copy of Shop Drawings in each Maintenance Manual.

PART 2 - PRODUCTS

2.1 GENERAL

- A. Building Management System equipment shall be as specified in Division 23 Section "HVAC Instrumentation and Controls".

PART 3 - EXECUTION

3.1 GENERAL

- A. Provide dynamic color graphics for all systems including but not limited to those identified in sequence of operation. Refer to Drawings for Building Management System graphics display and screen representation.

3.2 CONTROL SEQUENCES

- A. Central Station Air Handling Units.
 - 1. Supply Fans and Return Fans: Fans shall be enabled through the BMS. Air handling unit shall operate in 100% return air mode at start-up for five minutes, or until mixed air temperature is above adjustable 40 deg F.
 - a. Duct mounted averaging thermostat shall notify BMS of mixed air temperature. Alarm system when air temperature falls below 40 deg F.
 - b. Smoke detector in supply and return fan sections shall shut down fans and alarm system in the event of smoke.
 - c. Supply fan variable frequency drive shall modulate fan to maintain an adjustable 0.5" WC in duct at most remote terminal unit.
 - d. Return fan variable frequency drive shall modulate fan to maintain +0.05" WC differential pressure between building interior and exterior.
 - e. Supply duct static pressure sensor shall disable fan if adjustable maximum pressure setpoint is exceeded.
 - 2. Ventilation: Modulate relief damper and outside air damper to maintain minimum ventilation rate, refer to Air Handling Unit Schedule.
 - a. Provide low-leakage dampers on outside air and exhaust air duct connections to louvers.
 - b. Dampers shall modulate to operate in economizer mode for outside air temperature greater than adjustable 40 deg F and less than adjustable 65 deg F.
 - 3. Hydronic Heating Coils: Modulate two-way hot water control valve to maintain supply air temperature at adjustable 55 deg F.
 - 4. Hydronic Cooling Coils: Modulate pressure independent chilled water control valve to maintain supply air temperature at adjustable 55 deg F.
 - 5. Humidifier: Duct mounted return air humidistat shall enable humidifier to maintain minimum 30% relative humidity.
 - 6. Filters: Differential air pressure sensor shall notify BMS of pressure drop across pre-filters and final filters.
 - 7. Coordination of Air-Handling Unit Sequences: Ensure that preheat, mixed-air, heating-coil, and cooling-coil controls have common inputs and do not overlap in function.
 - 8. Display: Provide the following function on the BMS workstation:
 - a. BMS system graphic.
 - b. BMS system on-off indication.
 - c. BMS system occupied/unoccupied mode.
 - d. Outdoor-air-temperature indication.
 - e. Supply-fan on-off indication.
 - f. Supply-fan-discharge static-pressure indication.
 - g. Supply-fan-discharge static-pressure set point.
 - h. Supply-fan airflow rate.
 - i. Supply-fan VFD setting.

- j. Return-fan on-off indication.
 - k. Return-air static-pressure indication.
 - l. Return-air static-pressure set point.
 - m. Return-fan airflow rate.
 - n. Return-fan VFD setting.
 - o. Building static-pressure indication.
 - p. Building static-pressure set point.
 - q. Mixed-air-temperature indication.
 - r. Mixed-air-temperature set point.
 - s. Mixed-air damper position.
 - t. Outside-air damper position.
 - u. Exhaust-air damper position.
 - v. Supply fan air-temperature indication.
 - w. Supply fan air-temperature set point.
 - x. Heating-coil air-temperature indication.
 - y. Heating-coil air-temperature set point.
 - z. Heating-coil control-valve position.
 - aa. Cooling-coil air-temperature indication.
 - bb. Cooling-coil air-temperature set point.
 - cc. Cooling-coil control-valve position.
 - dd. Relative humidity set point.
 - ee. Relative humidity indication.
 - ff. Filter air-pressure-drop indication.
 - gg. Filter low-air-pressure set point.
 - hh. Filter high-air-pressure set point.
- B. Humidifiers:
- 1. General: Relative humidity sensor in return air section shall modulate steam valve in steam-to-steam humidifier to maintain adjustable 30% relative humidity.
 - 2. Display:
 - a. Humidifier steam valve position.
- C. Four-Pipe, Hydronic Fan Coil Unit:
- 1. General: Fan coil units shall operate based room temperature sensor with DDC system override capability. Two-way control valves shall modulate chilled water or heating hot water coils to maintain room temperature setpoint. Supply fan shall operate in on-off-auto mode based on room thermostat setting.
 - 2. Occupied Time Schedule:
 - a. Input Device: DDC system time schedule.
 - b. Output Device: Digital output.
 - c. Action: Start and stop fan, and enable control.
 - 3. Room Temperature:
 - a. Input Device: Electronic temperature sensor.
 - b. Output Device: Electronic control-valve operators.
 - c. Action: Modulate control valves to maintain temperature.
 - 4. Display:
 - a. Room temperature indication.
 - b. Room temperature set point.
 - c. Fan operation.
 - d. Control valve position.
- D. Variable Air Volume Terminal Boxes.
- 1. General: Room occupancy sensor shall enable VAV terminal unit to occupied airflow setting during occupied mode and setback to minimum airflow when unoccupied. Terminal unit shall operate in occupied airflow mode for an adjustable one hour after occupancy sensor indicates room is unoccupied.

2. Isolation Exhaust Terminal Unit: Isolation room occupancy sensor shall modulate exhaust duct to fully open position during occupied mode and closed for unoccupied mode. Room occupancy shall be determined as nurse station.
 3. Room Temperature Sensor: Reheat coil shall enable to maintain adjustable room temperature setpoint. Provide thermostat with adjustable ± 3 deg F setting in all rooms except behavioral health. In behavioral health rooms, provide flush-plate sensors non-adjustable by occupant.
 - a. Occupied Mode: 72 deg F.
 - b. Unoccupied Heating Mode: 65 deg F.
 - c. Unoccupied Cooling Mode: 78 deg F.
 4. Display:
 - a. Room/area served.
 - b. Room occupied/unoccupied.
 - c. Room temperature indication.
 - d. Room temperature set point.
 - e. Room temperature set point, occupied.
 - f. Room temperature set point, unoccupied.
 - g. Air-damper position as percent open.
 - h. Control-valve position as percent open.
- E. Radiant Heating Panels.
1. General: Radiant heating panel shall be enabled when outside air temperature is below adjustable 55 deg F. Panel shall operate in occupied mode for an adjustable one hour after occupancy sensor indicates room is unoccupied.
 2. Display:
 - a. Room/area served.
 - b. Room occupied/unoccupied.
- F. Fans.
1. General Exhaust: Exhaust fan shall operate continually.
 2. Isolation Room Exhaust: Exhaust fan shall operate if any isolation rooms are occupied. Fan shall modulate from minimum position to maximum based on number of rooms occupied. Minimum outside air control damper shall open if fan runs to minimum position without sufficient isolation rooms in occupied mode.
 3. Display:
 - c. Fan status.
 - d. Isolation fan VFD setting.
- G. Packaged Heat Exchanger Systems.
1. General: A factory-furnished control panel with the packaged heat exchanger systems shall operate the heat exchangers, heating hot water pumps, condensate return system and glycol feed system. The BMS shall integrate with all functions of the packaged heat exchanger system.
 2. The controller shall modulate the steam supply valve as required by system demand. Heating hot water pumps shall be enabled prior to heat exchanger operation.
 3. Hot Water Reset Schedule: The steam supply valve shall modulate to maintain 120°F leaving water temperature when outside air temperature is at adjustable 60°F. Reset leaving water temperature linearly to increase as outside air temperature decreases. When outside air temperature fall below adjustable 0°F, maintain leaving water temperature at 180°F.
 4. Display:
 - a. Outdoor air temperature.
 - b. Leaving water temperature.
 - c. Steam control valve position.
 - d. Pump status.
- H. Heating Hot Water Pump.
1. General: The packaged heat exchanger system controller shall start and stop the pumps and modulate speed as required by system demand. The controller shall enable the hot water pumps in a lead-lag operation to permit automatic periodic or manual change-over of the lead pump. In the

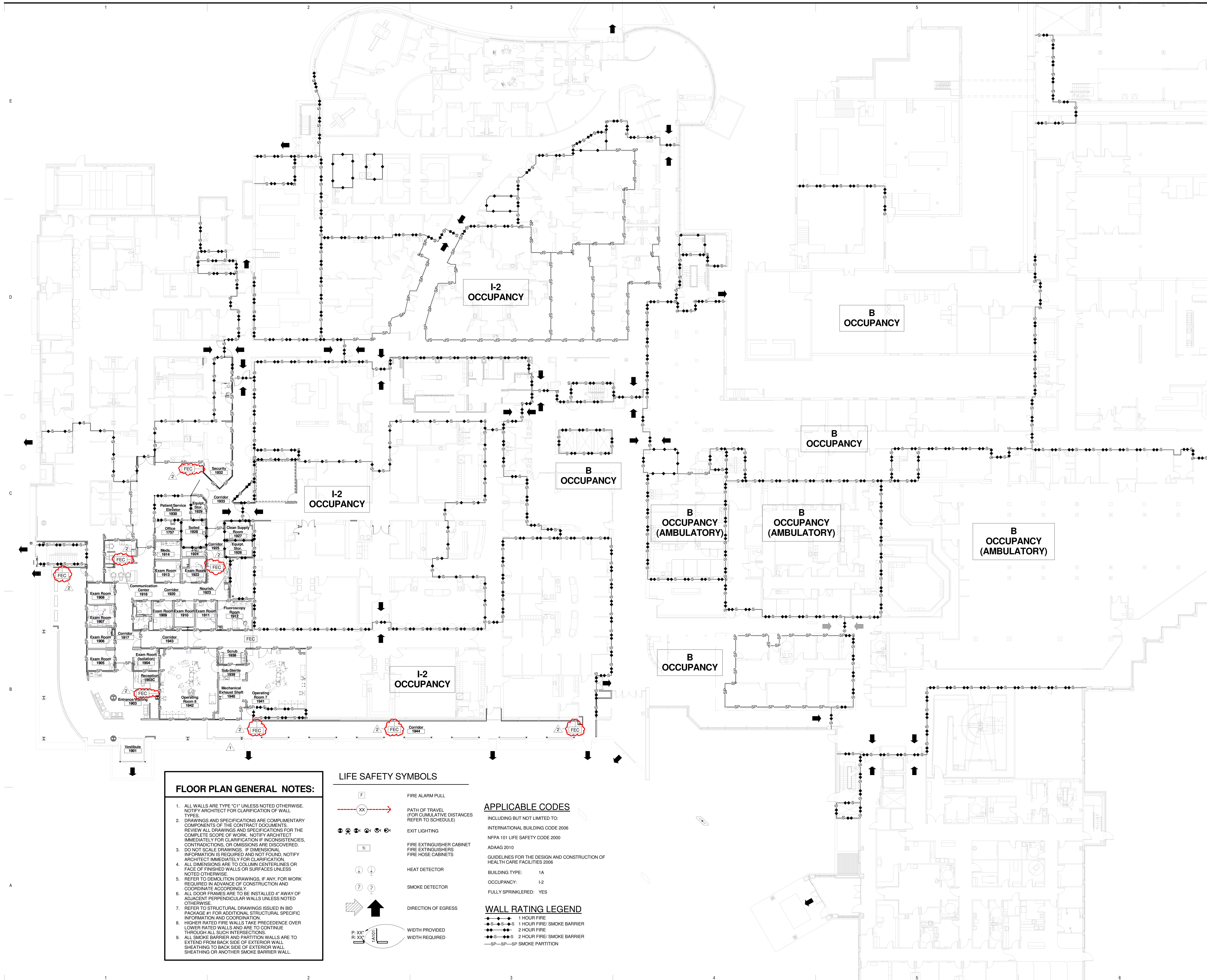
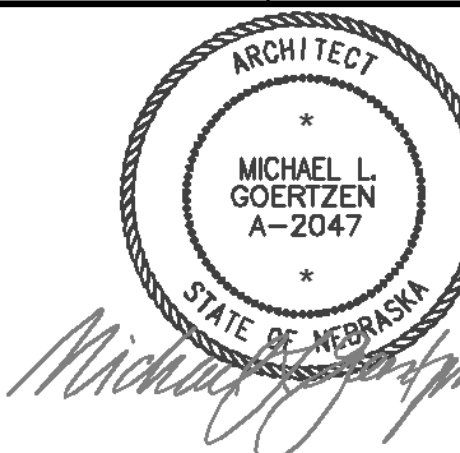
- event of failure of the operating pump, the second pump shall be enabled and the BMS system shall be notified of an alarm condition with the pump system.
2. Safety: The controller shall prove flow through the heat exchanger system prior to system enable.
 3. Pump Modulation: The controller shall modulate the hot water pump variable frequency drive to maintain 20 ft. TDH adjustable differential pressure set point in the hot water system when all air handling unit heating coils and VAV terminal unit hot water coils are open.
 4. Minimum Pump Speed: Minimum operating speed of heat pump loop pump VFD shall be set to 18 Hz (30% of full operation).
 5. Display:
 - a. Pump status.
 - b. VFD status.
 - c. Pump speed.
 - d. Differential pressure setpoint.
 - e. Alarm.
- I. Glycol Feeder System.
1. General: The BMS shall be notified of glycol feeder pump operations and high/low level condition in the glycol feeder system.
 2. Basic Operation: A pressure switch in the heating hot water system shall enable the glycol feeder pump when system pressure falls below adjustable 15 PSIG and operate until system pressure exceeds 35 PSIG.
 3. Display:
 - a. Pump status alarm.
 - b. High/low level alarm.
- J. Medical Air Compressors.
1. General: The BMS shall be notified of medical air compressor operations.
 2. Display:
 - a. Air compressor status alarm.
 - b. Air compressor pressure setpoint.
 - c. Air compressor pressure.
- K. Medical Vacuum Units.
1. General: The BMS shall be notified of medical vacuum operations.
 2. Display:
 - a. Vacuum status alarm.
 - b. Vacuum setpoint.
 - c. Vacuum.
- L. Steam Inline Vortex Meter.
1. General: The BMS shall be notified of steam consumption rate and total consumption through a serial communication interface. Coordinate protocol interface requirements with vortex meter manufacturer.
 2. Display:
 - a. Mass Flow Rate.
 - b. Total Mass.
- M. Storm Drain Piping Heat Trace System.
1. General: The DDC system shall be notified of storm drain piping heat trace operations.
 2. Basic Operation: Heat trace shall enable on a signal from the manufacturer-furnished snow and ice sensor/controller. The DDC shall be notified of an alarm if conditions warrant heat trace operations without a signal from the storm drain piping system enabling.
 3. Display:
 - a. Snow and ice sensor enable.
 - b. System alarm.
- N. Submersible Sewage Pump System.
1. General: The factory-assembled sewage pump system controller shall start and stop the pumps as required by system demand. The controller shall enable the pumps in a lead-lag operation to permit

automatic periodic or manual change-over of the lead pump. In the event of failure of the operating pump, the second pump shall be enabled and the BMS system shall be notified of an alarm condition with the pump system.

2. Display:
 - a. Pump status.
 - b. Lead/lag status.
 - c. High water.
 - d. Alarm.

END OF SECTION 23 09 93

2	12-05-13	BP3-ADDENDUM #2
1	11-26-13	BP3-ADDENDUM #1
MARK	DATE	DESCRIPTION
PROJECT NUMBER		000000000197728
ORIGINAL ISSUE		11/05/13 -
	PROJECT MANAGER	Mike Goertzen
	PROJECT DESIGNER	Brian Zablutski
	PROJECT ARCHITECT	Jeff Bahr
	LANDSCAPE ARCHITECT	Brad Swerczek
	CIVIL ENGINEER	-
	STRUCTURAL ENGINEER	Doug Sholl
	MECHANICAL ENGINEER	Todd Kubcek
	ELECTRICAL ENGINEER	Kris Burnham
	INTERIOR DESIGNER	Jill McFee
	EQUIPMENT PLANNER	Greg Olsen
DRAWN BY		Author

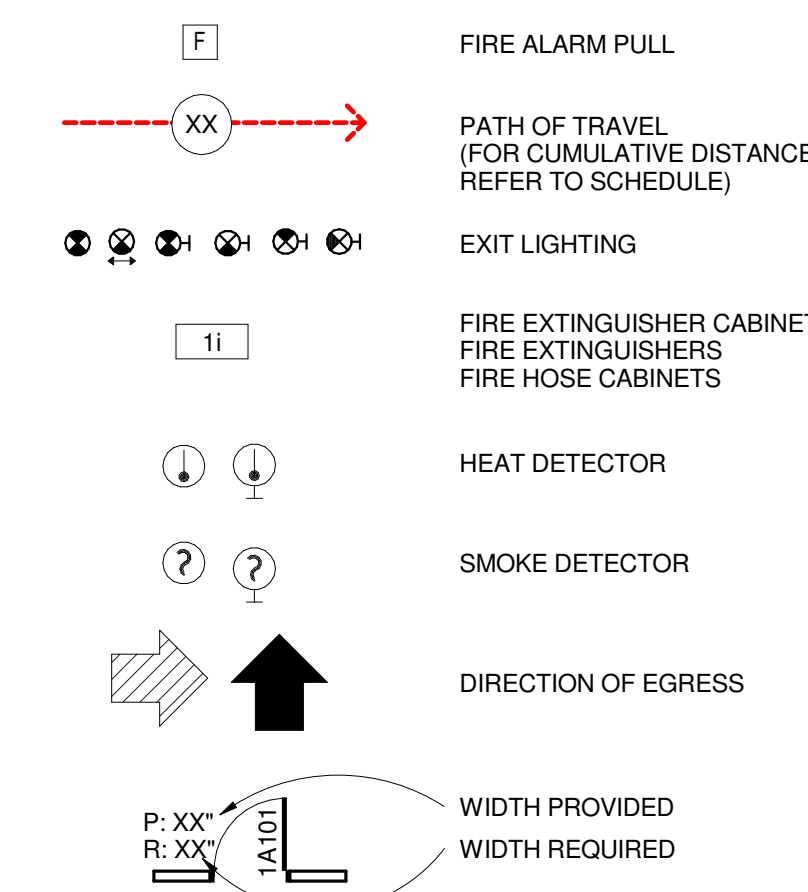




1. ALL WALLS ARE TYPE "C" UNLESS NOTED OTHERWISE. NOTIFY ARCHITECT FOR CLARIFICATION OF WALL TYPES.
2. DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY COMPONENTS OF THE CONTRACT DOCUMENTS.
3. REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR THE PROJECT. SCOPE OF WORK MAY VARY. NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION IF INCONSISTENCIES OR OMISSIONS, CONFLICTS, OR AMBIGUITIES ARE DISCOVERED.
4. DO NOT SCALE DRAWINGS. IF DIMENSIONAL INFORMATION IS REQUIRED AND NOT FOUND, NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION.
5. ALL DIMENSIONS ARE TO COLUMN CENTLINES OR FACE OF FINISHED WALLS OR SURFACES UNLESS NOTED OTHERWISE.
6. REFER TO DEMOLITION DRAWINGS, IF ANY, FOR WORK TO BE REMOVED TO ADVANCE CONSTRUCTION AND COORDINATE ACCORDINGLY.
7. ALL DOOR FRAMES ARE TO BE INSTALLED 4" AWAY FROM EXISTING PERIMETER OF WALLS UNLESS NOTED OTHERWISE.
8. REFER TO STRUCTURAL DRAWINGS ISSUED IN BID DOCUMENTS FOR ADDITIONAL STRUCTURAL SPECIFIC INFORMATION AND COORDINATION.
9. HOUSEHOLD BARRIER WALLS SHALL BE CONSTRUCTED ON LOWER RATED WALLS AND ARE TO BE CONTINUE THROUGH ALL SUCH INTERSECTIONS.
10. HOUSEHOLD BARRIER WALLS SHALL BE ALLOWED TO EXTEND FROM BACK SIDE OF EXTERIOR WALL SHEATHING TO BACK SIDE OF EXTERIOR WALL SHEATHING OR ANCHOR TO EXTERIOR WALL SHEATHING.

INCLUDING BUT NOT LIMITED TO:

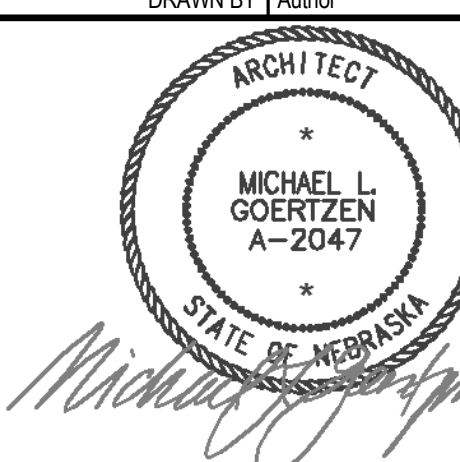
INCLUDING BUT NOT LIMITED TO:
INTERNATIONAL BUILDING CODE 2006
NFPA 101 LIFE SAFETY CODE 2000
ADAAG 2010



◆◆◆ 1 HOUR FIRE
◆S◆S◆S 1 HOUR FIRE/ SMOKE BARRIER
◆◆◆◆ 2 HOUR FIRE
◆◆S◆◆S 2 HOUR FIRE/ SMOKE BARRIER
—SP—SP—SP SMOKE PARTITION

[illegible]

1	12-06-13	BP3-ADDENDUM #2
2	11-26-13	BP3-ADDENDUM #1
MARK	DATE	DESCRIPTION
	PROJECT NUMBER	00000000019729
	ORIGINAL ISSUE	11/05/13
	PROJECT MANAGER	Mike Goertzen
	PROJECT DESIGNER	Brian Zahradski
	PROJECT ARCHITECT	Jeff Sahr
B	LANDSCAPE ARCHITECT	Brad Swerczek
	CIVIL ENGINEER	
	STRUCTURAL ENGINEER	Doug Sholl
	MECHANICAL ENGINEER	Todd Kuback
	ELECTRICAL ENGINEER	Kris Burnham
	INTERIOR DESIGNER	Jill McFee
	EQUIPMENT PLANNER	Greg Olsen
	OWNER	Author

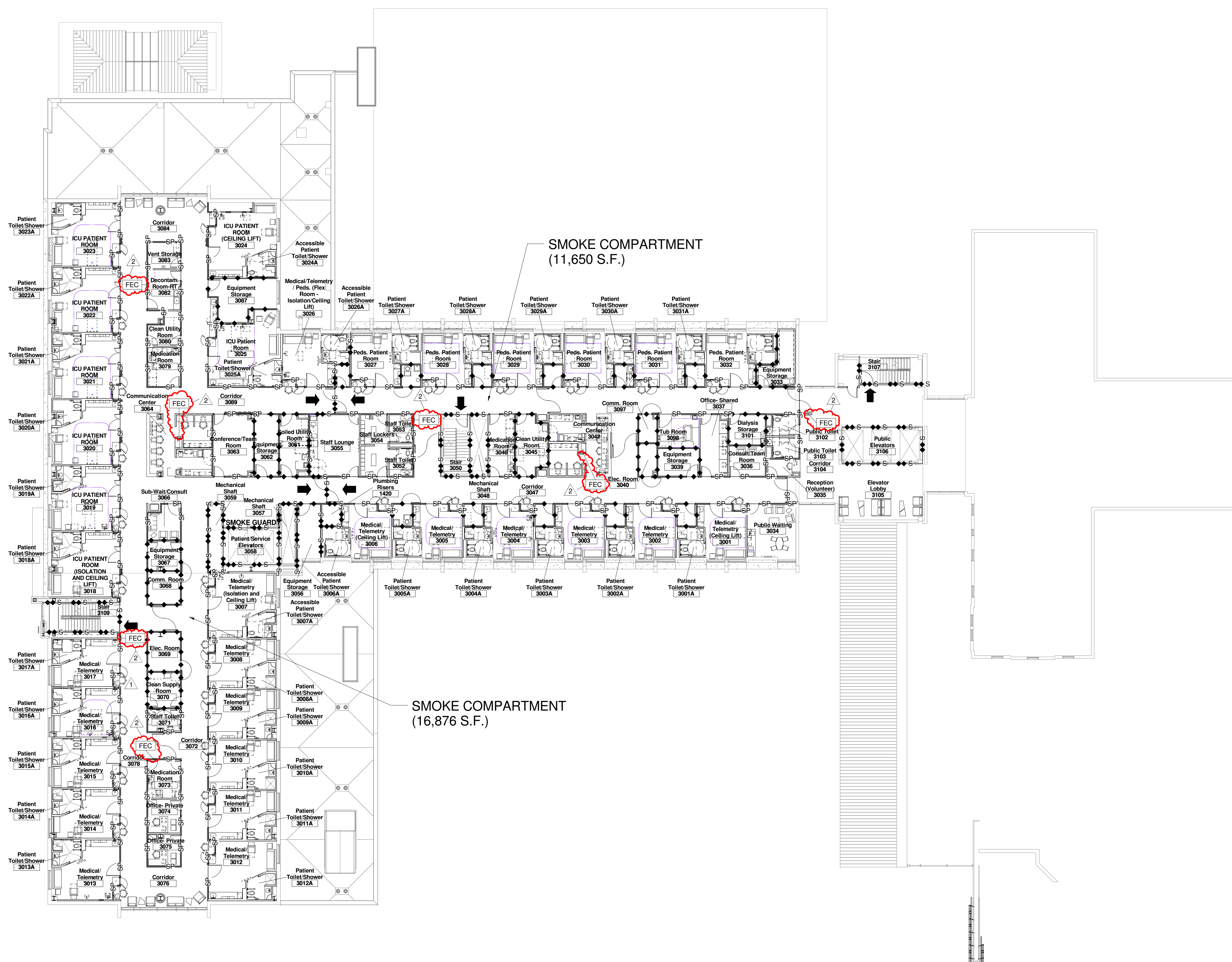


THIRD FLOOR LIFE SAFETY PLAN

SCALE	As indicated
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G-103

CONSTRUCTION DOCUMENTS



FLOOR PLAN GENERAL NOTES:

1. ALL WALLS ARE TYPE "C1" UNLESS NOTED OTHERWISE. NOTIFY ARCHITECT FOR CLARIFICATION OF WALL TYPES.
2. DRAWINGS AND SPECIFICATIONS ARE COMPLEMENTARY COMPONENTS OF THE CONTRACT DOCUMENTS. REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR THE COMPLETE SCOPE OF WORK. NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION IF INCONSISTENCIES, CONTRADICTIONS, OR OMISSIONS ARE DISCOVERED.
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7. REFER TO STRUCTURAL DRAWINGS ISSUED IN BID PACKAGE #1 FOR ADDITIONAL STRUCTURAL SPECIFIC INFORMATION AND COORDINATION.
8. HIGHER RATED FIRE WALLS TAKE PRECEDENCE OVER LOWER RATED WALLS AND ARE TO CONTINUE THROUGH ALL SUCH INTERSECTIONS.
9. ALL SMOKE BARRIER AND PARTITION WALLS ARE TO EXTEND FROM BACK SIDE OF EXTERIOR WALL SHEATHING TO BACK SIDE OF EXTERIOR WALL SHEATHING OR ANOTHER SMOKE BARRIER WALL.

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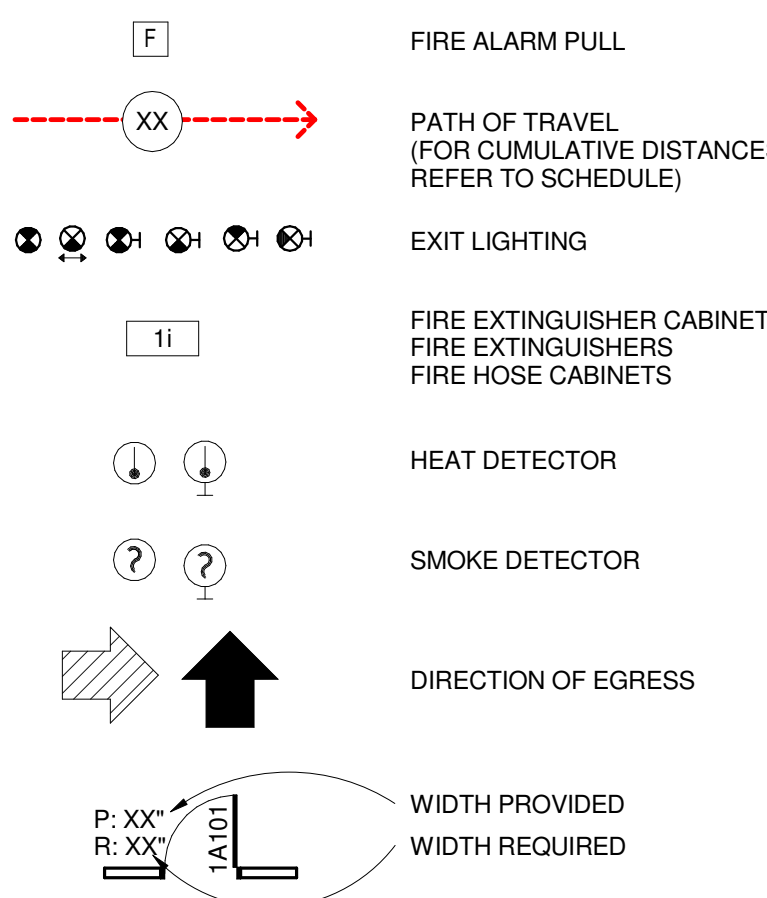
10360 Ellison Circle
Omaha, NE 68134
Phone: 402.991.5520
www.specializedeng.com

Sampson
Construction

APPLICABLE CODES

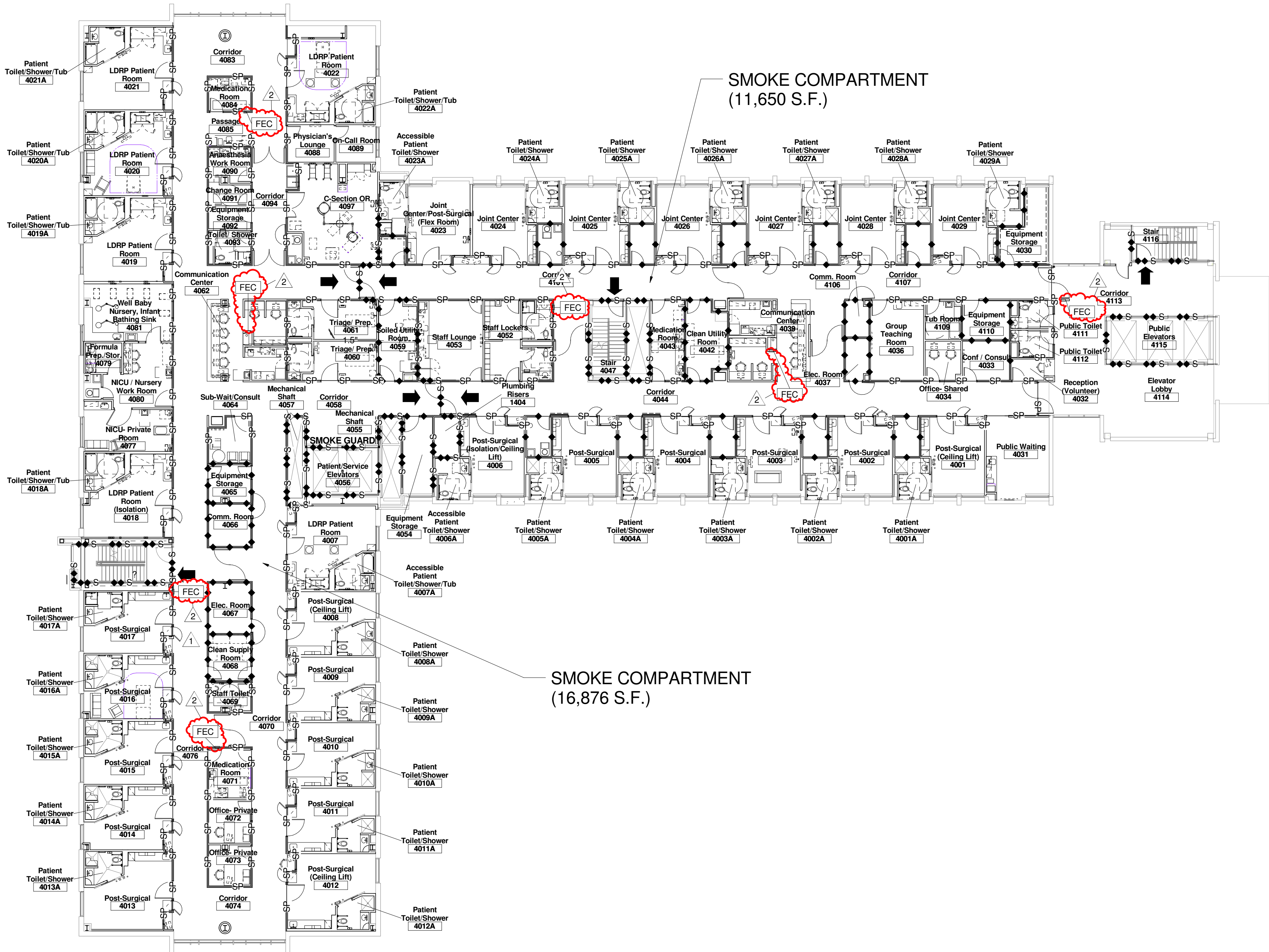
INCLUDING BUT NOT LIMITED TO:
INTERNATIONAL BUILDING CODE 2006
NFPA 101 LIFE SAFETY CODE 2000
ADAG 2010
GUIDELINES FOR THE DESIGN AND CONSTRUCTION OF HEALTH CARE FACILITIES 2006

LIFE SAFETY SYMBOLS



WALL RATING LEGEND

- ◆◆◆◆ 1 HOUR FIRE
- ◆◆◆◆◆ 1 HOUR FIRE SMOKE BARRIER
- ◆◆◆◆◆ 2 HOUR FIRE
- ◆◆◆◆◆ 2 HOUR FIRE SMOKE BARRIER
- SP—SP SMOKE PARTITION



PROJECT FOR

FAMC
Fremont Area Medical Center

Fremont Area
Medical Center

MASTER PLAN
IMPLEMENTATION
PROJECT
450 EAST 23rd STREET
FREMONT, NE

BID PACKAGE #3

MARK	DATE	DESCRIPTION
2	12-06-13	BP3-ADDENDUM #2
1	11-26-13	BP3-ADDENDUM #1

PROJECT NUMBER	0000000019729
ORIGINAL ISSUE	11/05/13
PROJECT MANAGER	Mike Goertzen
PROJECT DESIGNER	Brian Zabloudil
PROJECT ARCHITECT	Jeff Bahr
LANDSCAPE ARCHITECT	Brad Swerczek
CIVIL ENGINEER	
STRUCTURAL ENGINEER	Doug Sholl
MECHANICAL ENGINEER	Todd Kuback
ELECTRICAL ENGINEER	Kris Burnham
INTERIOR DESIGNER	Jill McFee
EQUIPMENT PLANNER	Greg Olsen
DRAWN BY	Author



FOURTH FLOOR LIFE
SAFETY PLAN

SCALE: As indicated

G-104

CONSTRUCTION DOCUMENTS

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APPLICABLE CODES

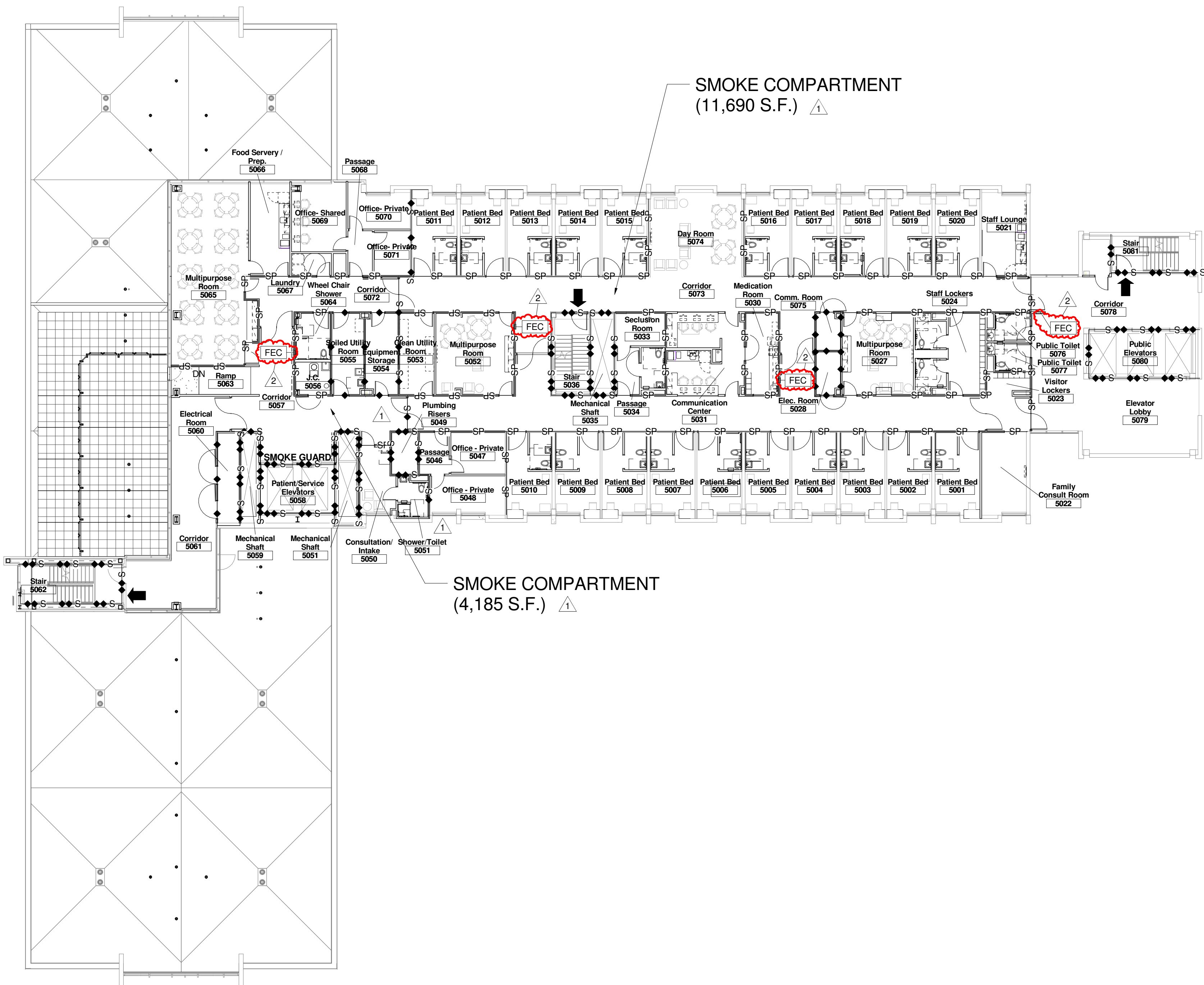
- INCLUDING BUT NOT LIMITED TO:
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 - NFPA 101 LIFE SAFETY CODE 2000
 - ADAAG 2010
 - GUIDELINES FOR THE DESIGN AND CONSTRUCTION OF HEALTH CARE FACILITIES 2006

LIFE SAFETY SYMBOLS

- F** FIRE ALARM PULL
- XX** PATH OF TRAVEL
(FOR CUMULATIVE DISTANCES
REFER TO SCHEDULE)
- EXIT** EXIT LIGHTING
- 11** FIRE EXTINGUISHER CABINET
FIRE EXTINGUISHERS
FIRE HOSE CABINETS
- 11** HEAT DETECTOR
- ?** SMOKE DETECTOR
- ↑** DIRECTION OF EGRESS
- P-XX** WIDTH PROVIDED
R-XX WIDTH REQUIRED

WALL RATING LEGEND

- ◆◆◆◆ 1 HOUR FIRE
- ◆◆◆◆◆ 1 HOUR FIRE/ SMOKE BARRIER
- ◆◆◆◆◆◆ 2 HOUR FIRE
- ◆◆◆◆◆◆◆ 2 HOUR FIRE/ SMOKE BARRIER
- SP—SP—SP SMOKE PARTITION



PROJECT FOR



Fremont Area
Medical Center

MASTER PLAN
IMPLEMENTATION
PROJECT
450 EAST 23rd STREET
FREMONT, NE

BID PACKAGE #3

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PROJECT NUMBER 0000000019729		
ORIGINAL ISSUE 110513 -		
PROJECT MANAGER Mike Goertzen		
PROJECT DESIGNER Brian Zabloudil		
PROJECT ARCHITECT Jeff Bahr		
LANDSCAPE ARCHITECT Brad Swerczek		
CIVIL ENGINEER		
STRUCTURAL ENGINEER Doug Sholl		
MECHANICAL ENGINEER Todd Kubicek		
ELECTRICAL ENGINEER Kris Burnham		
INTERIOR DESIGNER Jill McFee		
EQUIPMENT PLANNER Greg Olsen		
DRAWN BY Author		



FIFTH FLOOR LIFE
SAFETY PLAN

SCALE As indicated

G-105

CONSTRUCTION DOCUMENTS

C:\n\97720A-CENTRAL_basabou.rvt
12/6/2013 12:34:26 PM

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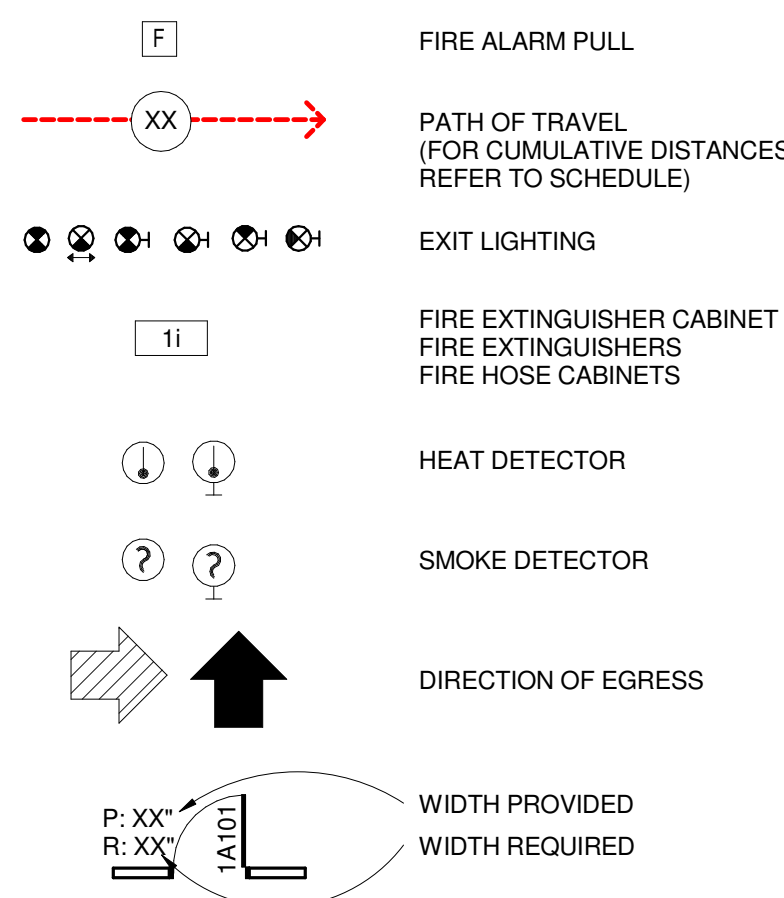
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APPLICABLE CODES

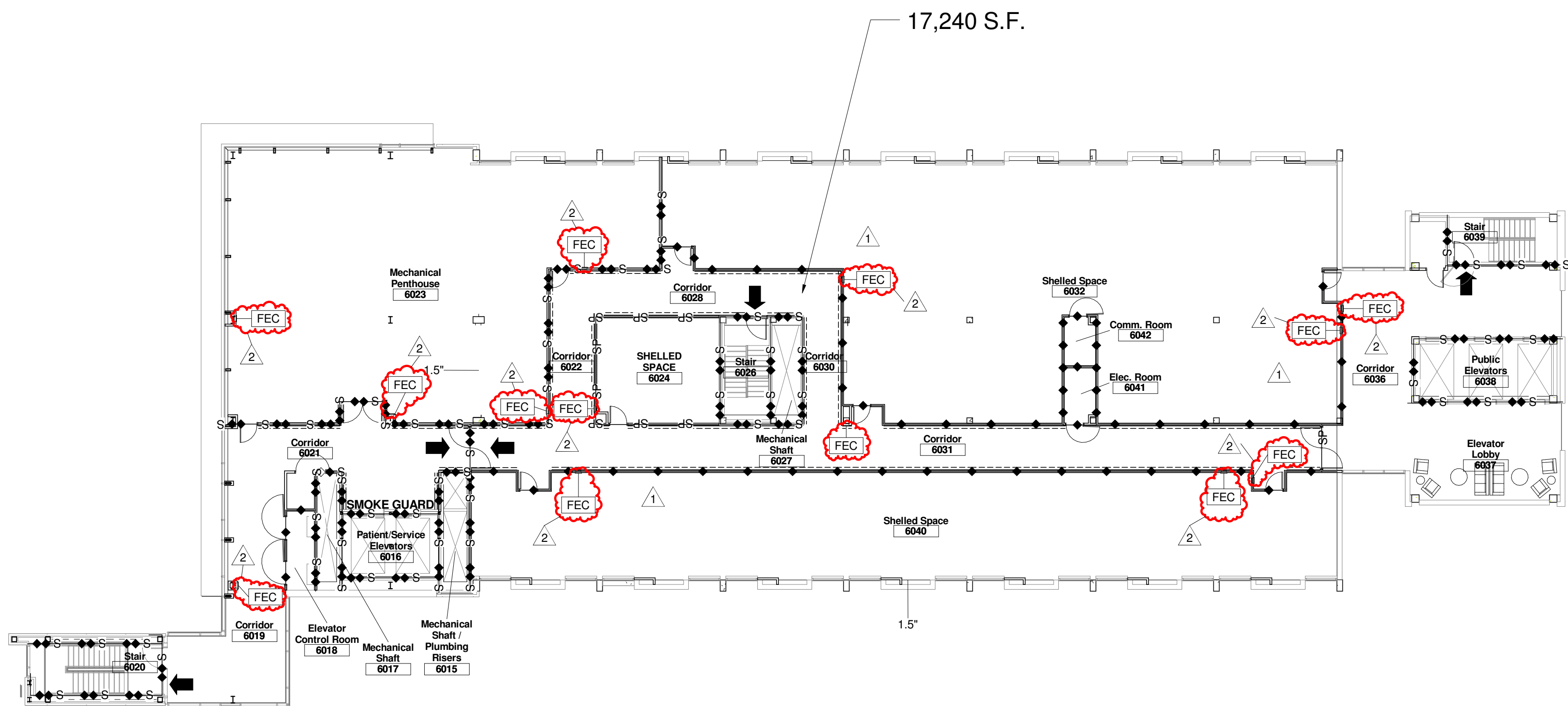
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- SP—SP—SP SMOKE PARTITION



PROJECT FOR



Fremont Area
Medical Center

MASTER PLAN
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MECHANICAL ENGINEER	Todd Kubicek
ELECTRICAL ENGINEER	Kris Burnham
INTERIOR DESIGNER	Jill McFee
EQUIPMENT PLANNER	Greg Olsen
DRAWN BY	Author

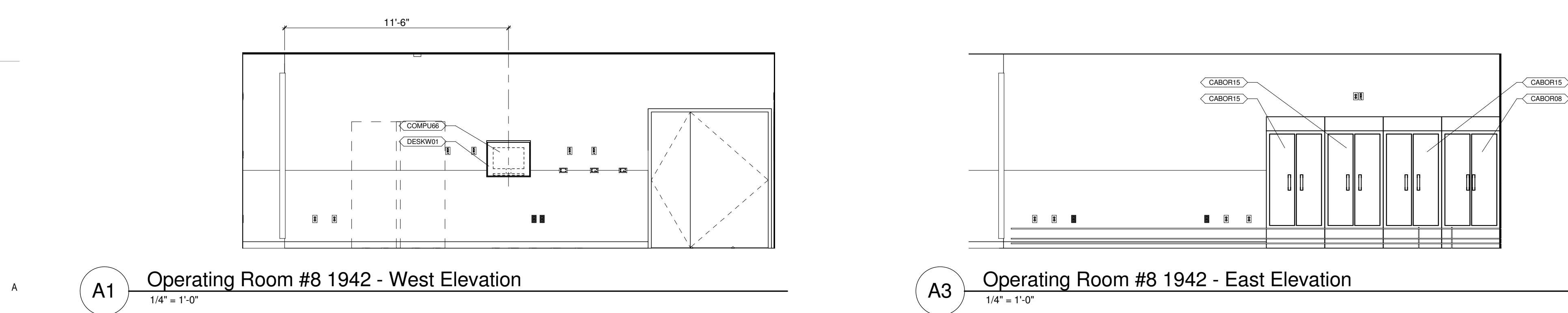
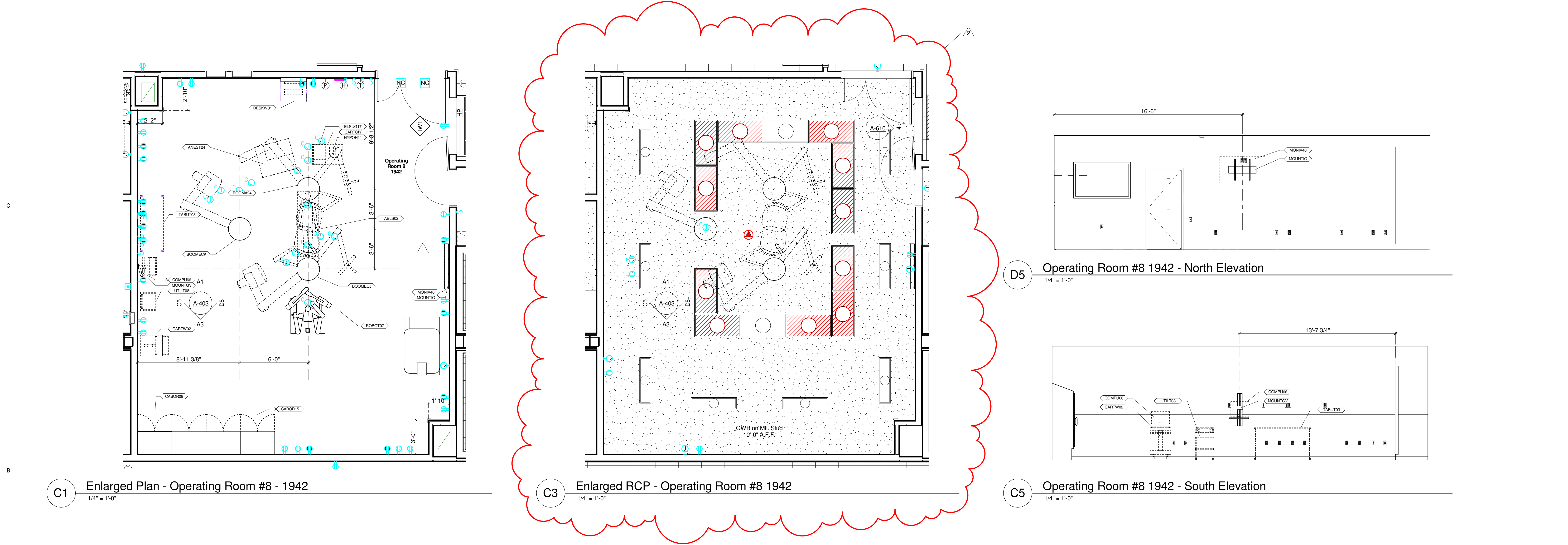
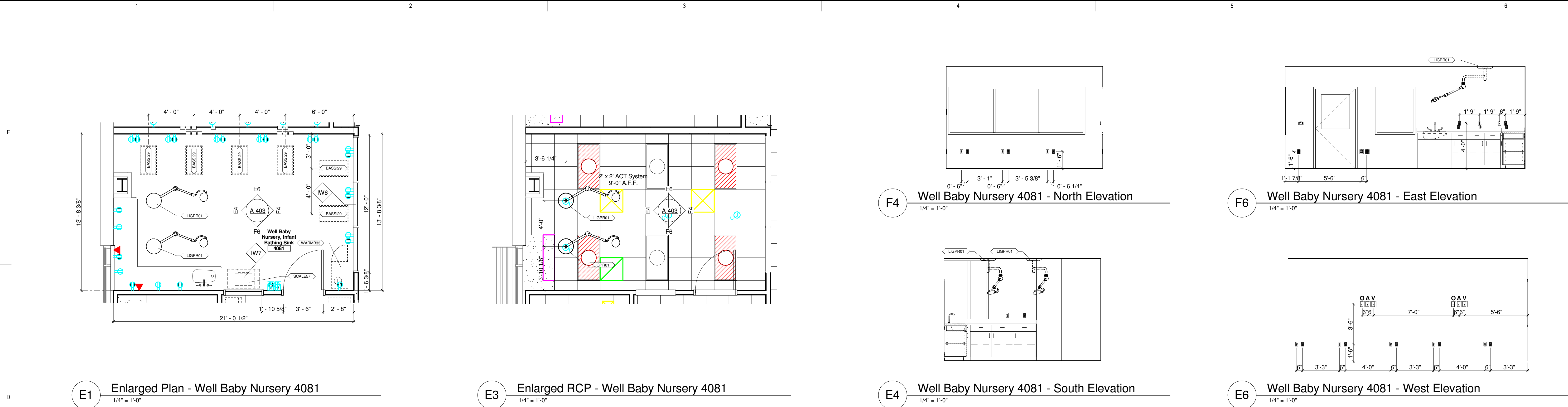


SIXTH FLOOR LIFE
SAFETY PLAN

SCALE: As indicated

G-106

CONSTRUCTION DOCUMENTS



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PROJECT FOR

FAMC

Fremont Area Medical Center

Fremont Area
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MASTER PLAN
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PROJECT NUMBER

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ORIGINAL ISSUE

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PROJECT MANAGER

Mike Goertzen

PROJECT DESIGNER

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Jeff Bahr

LANDSCAPE ARCHITECT

Brad Swenczek

CIVIL ENGINEER

STRUCTURAL ENGINEER

Doug Sholl

MECHANICAL ENGINEER

Todd Kubicek

ELECTRICAL ENGINEER

Kris Burnham

INTERIOR DESIGNER

Jill McFee

EQUIPMENT PLANNER

Greg Olsen

DRAWN BY

Author

ARCHITECT

MICHAEL L. GOERTZEN
A-2047

STATE OF NEBRASKA

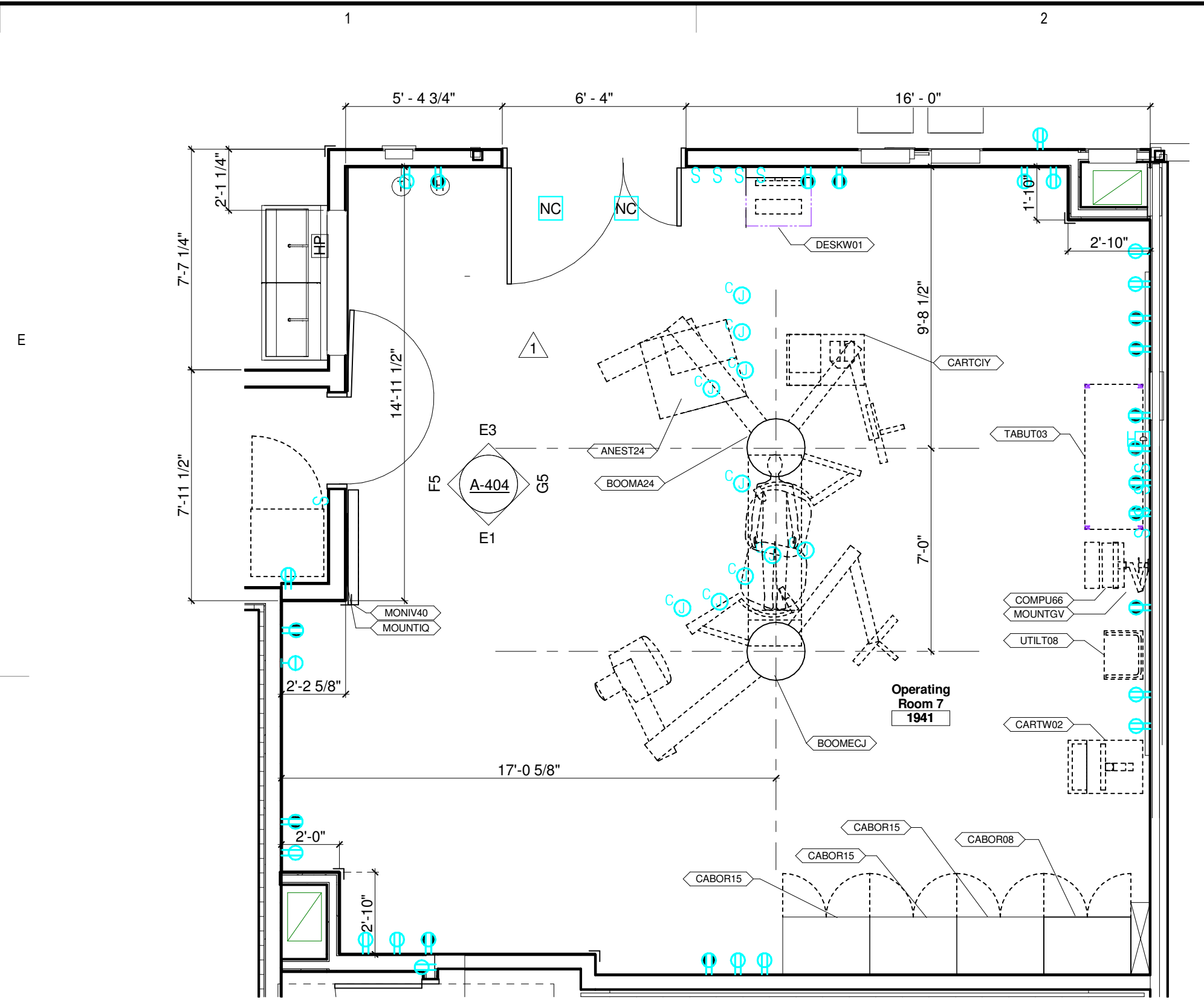
Michael L. Goertzen

ENLARGED PLANS
AND INTERIOR
ELEVATIONS

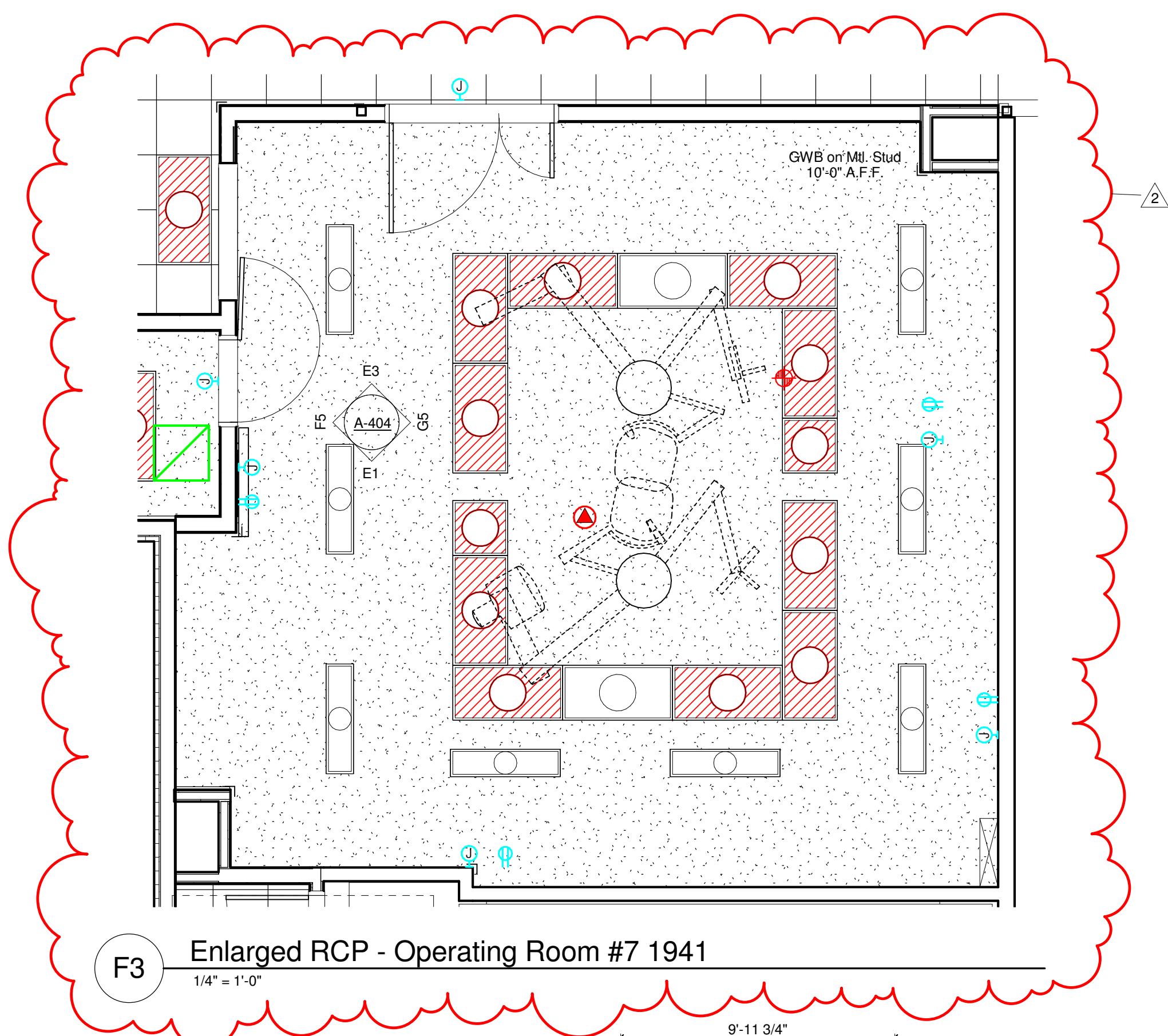
SCALE 1/4" = 1'-0"

A-403

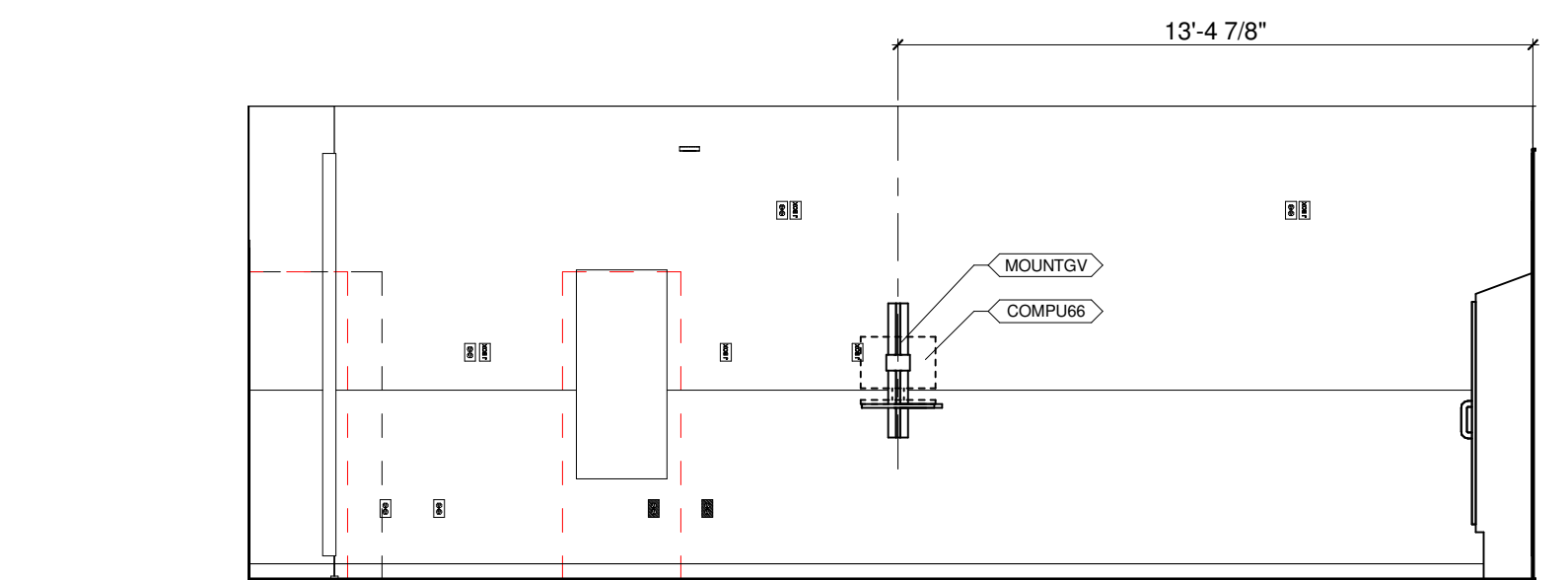
CONSTRUCTION DOCUMENTS



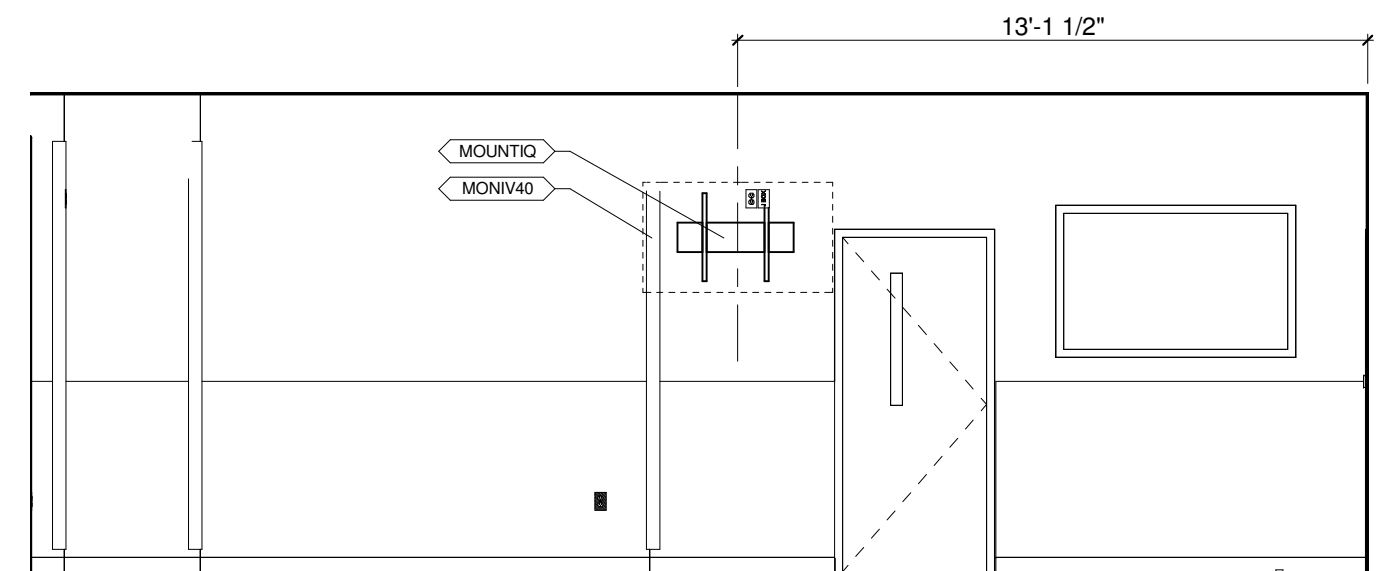
F1 Enlarged Plan - Operating Room #7 1941
1/4" = 1'-0"



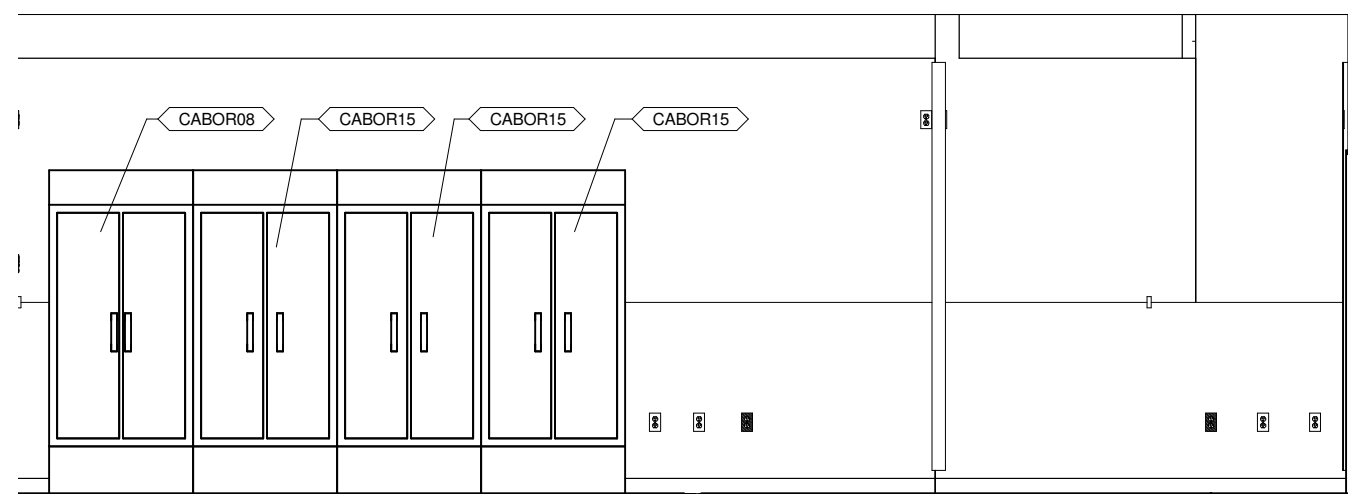
F3 Enlarged RCP - Operating Room #7 1941
1/4" = 1'-0"



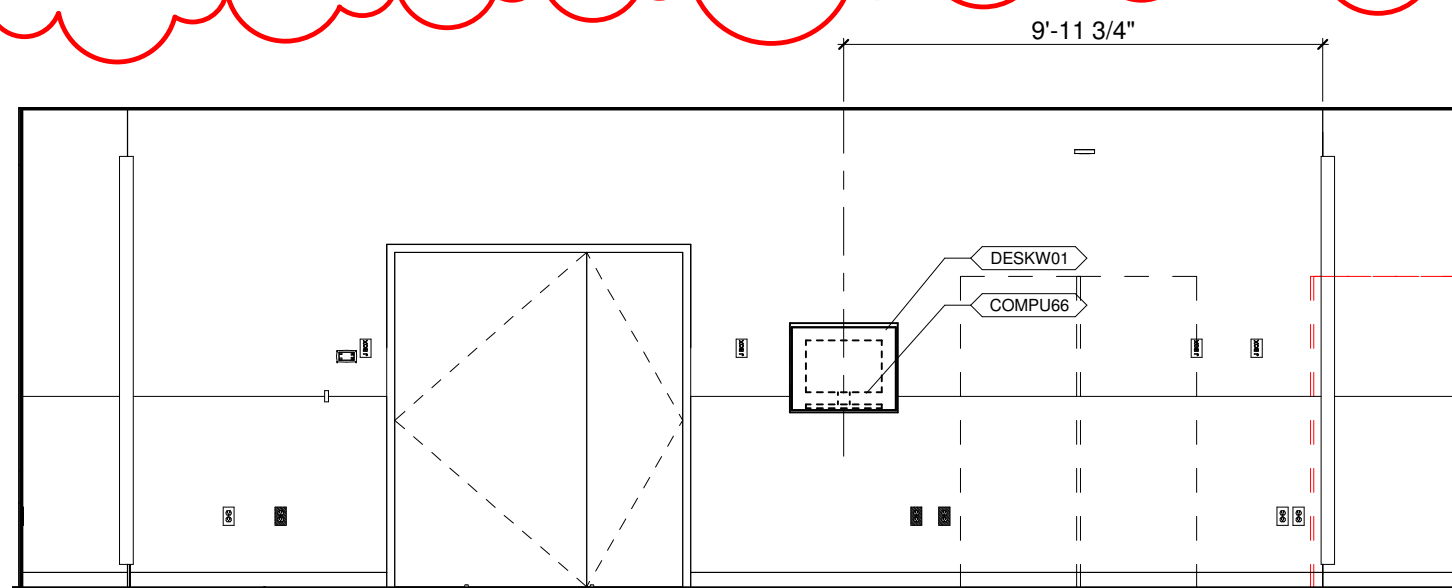
G5 Operating Room #7 1941 - North Elevation
1/4" = 1'-0"



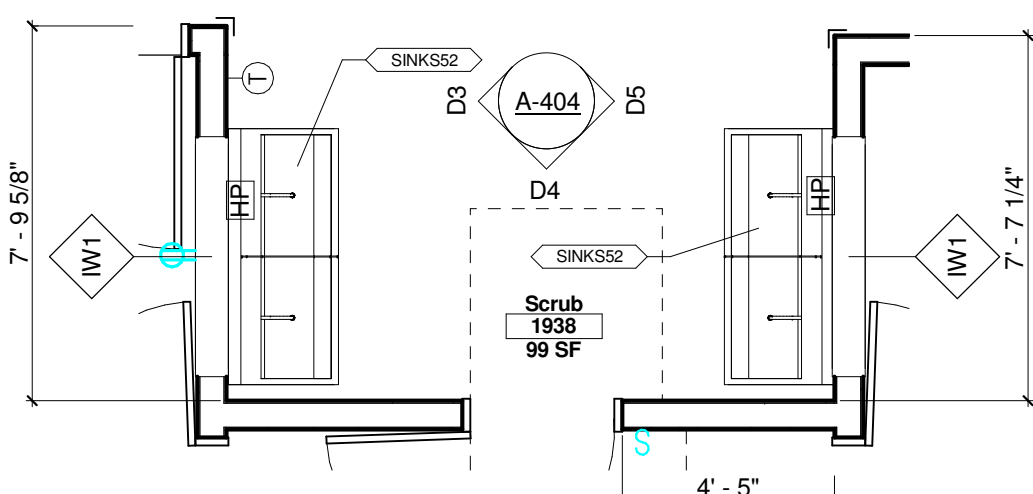
F5 Operating Room #7 1941 - South Elevation
1/4" = 1'-0"



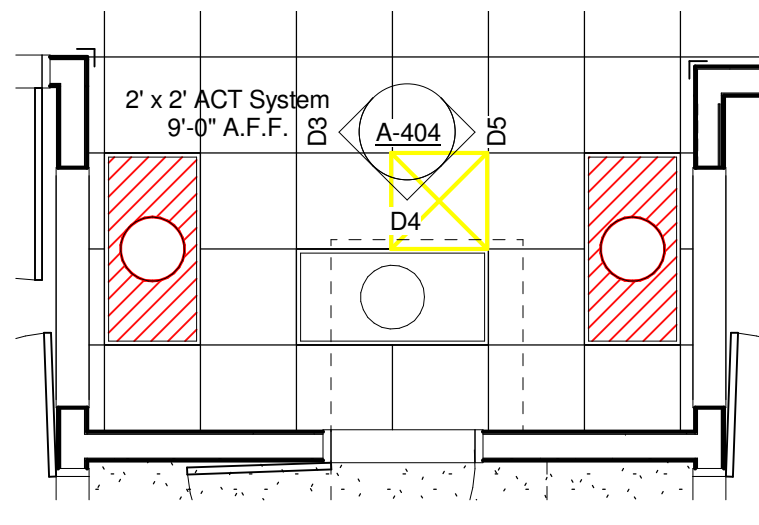
E1 Operating Room #7 1941 - East Elevation
1/4" = 1'-0"



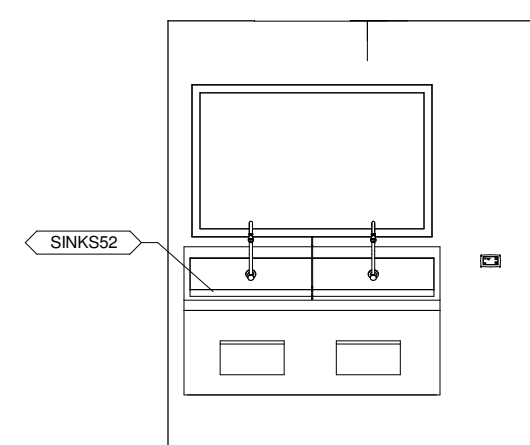
E3 Operating Room #7 1941 - West Elevation
1/4" = 1'-0"



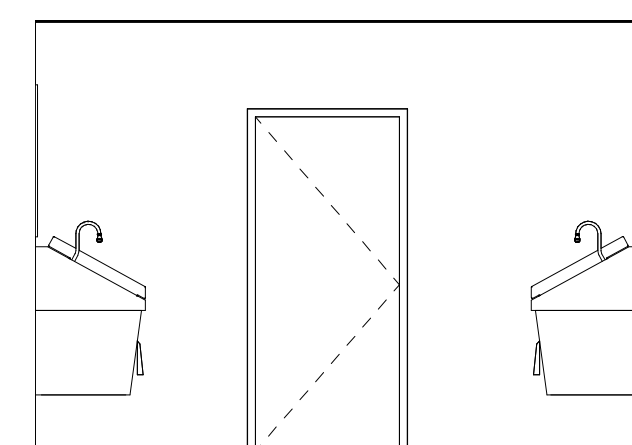
D1 Enlarged Plan - Scrub 1938
1/4" = 1'-0"



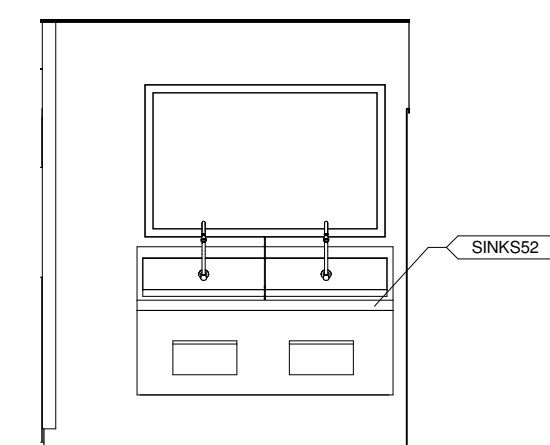
D2 Enlarged RCP - Scrub 1938
1/4" = 1'-0"



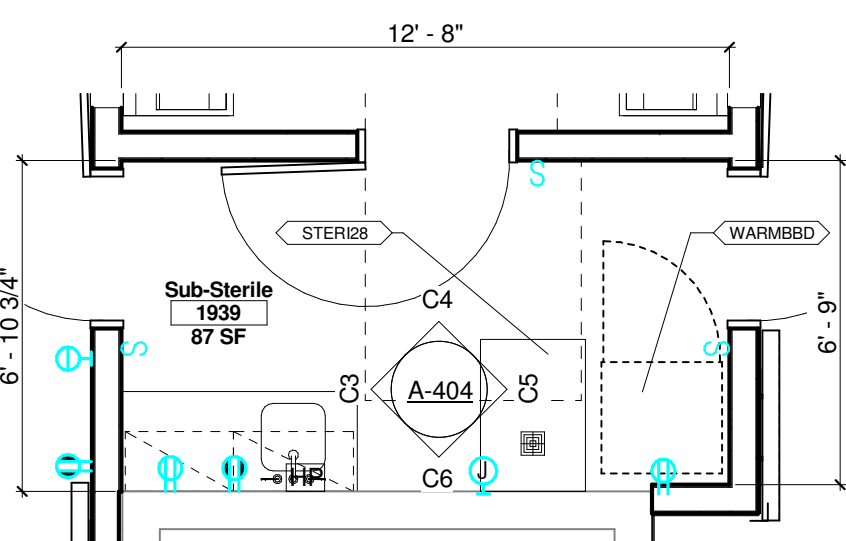
D3 Scrub 1938 - South Elevation
1/4" = 1'-0"



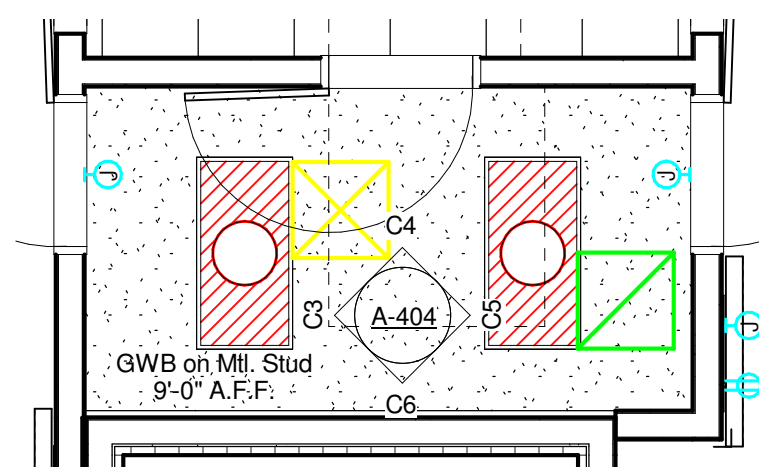
D4 Scrub 1938 - East Elevation
1/4" = 1'-0"



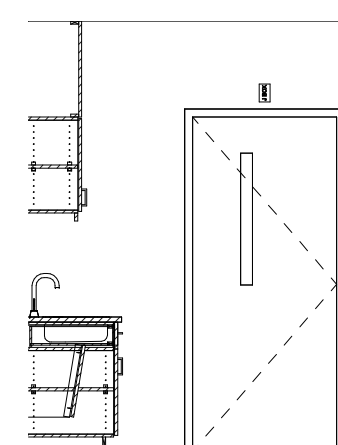
D5 Scrub 1938 - North Elevation
1/4" = 1'-0"



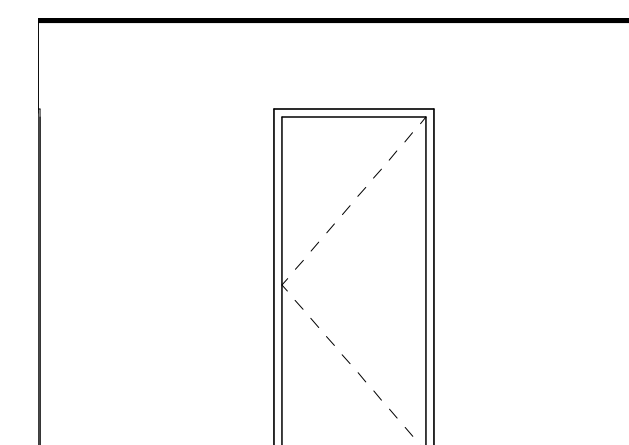
C1 Enlarged Plan - Sub-Sterile 1939
1/4" = 1'-0"



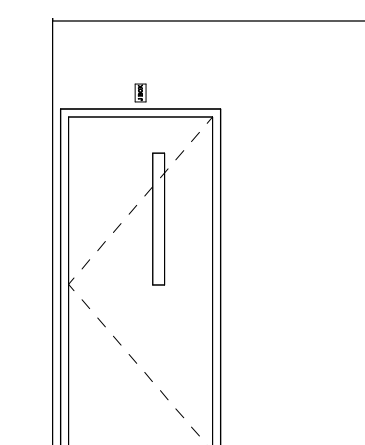
C2 Enlarged RCP - Sub-Sterile 1939
1/4" = 1'-0"



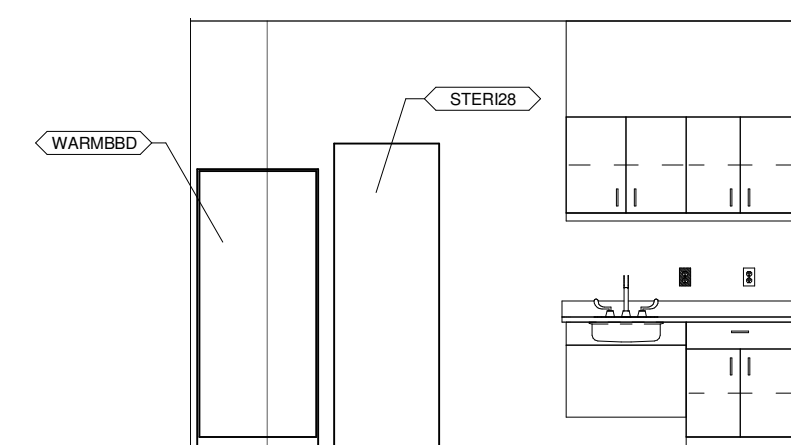
C3 Sub-Sterile 1939 - South Elevation
1/4" = 1'-0"



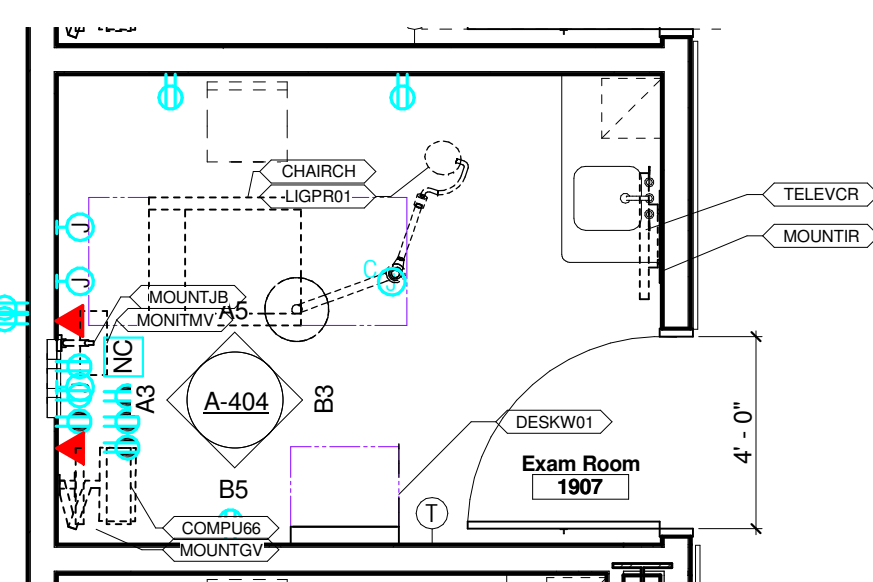
C4 Sub-Sterile 1939 - West Elevation
1/4" = 1'-0"



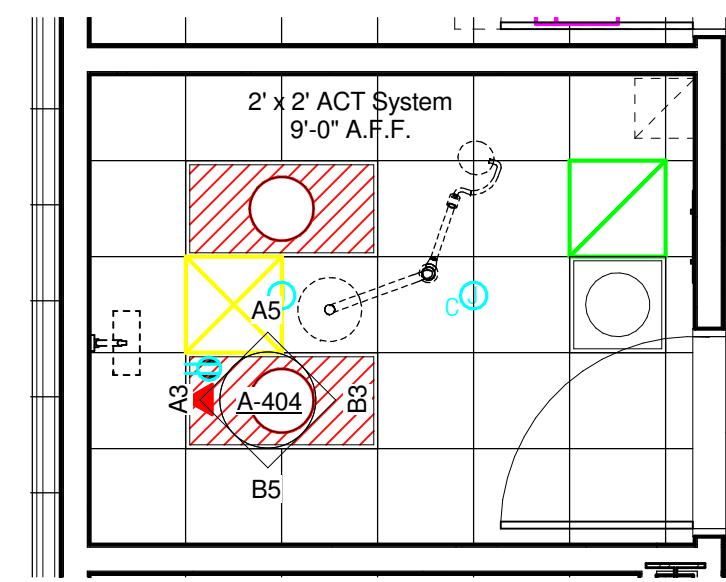
C5 Sub-Sterile 1939 - North Elevation
1/4" = 1'-0"



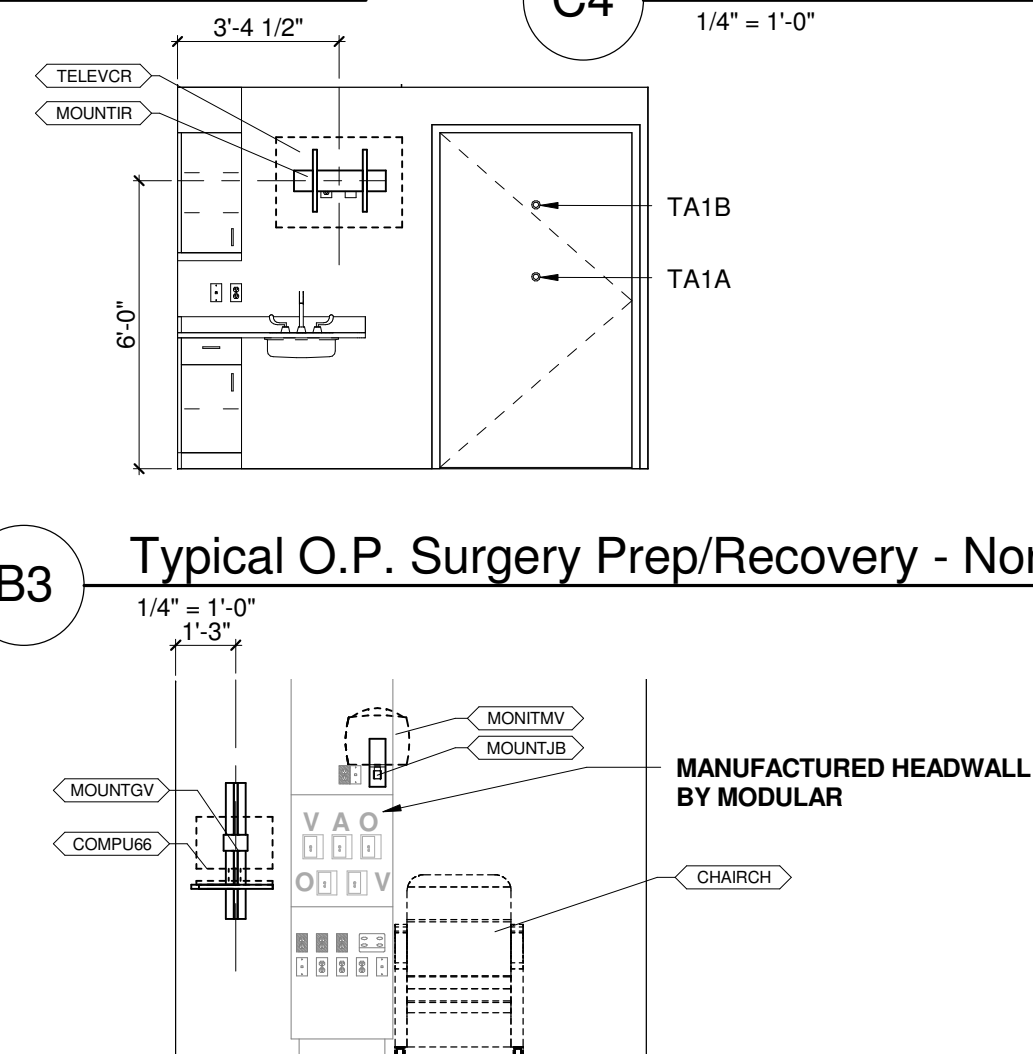
C6 Sub-Sterile 1939 - East Elevation
1/4" = 1'-0"



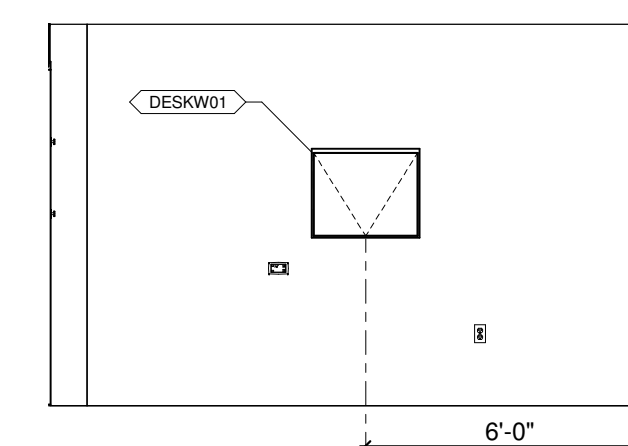
A1 Enlarged Plan - Typical O.P. Surgery/Pre. Recovery
1/4" = 1'-0"



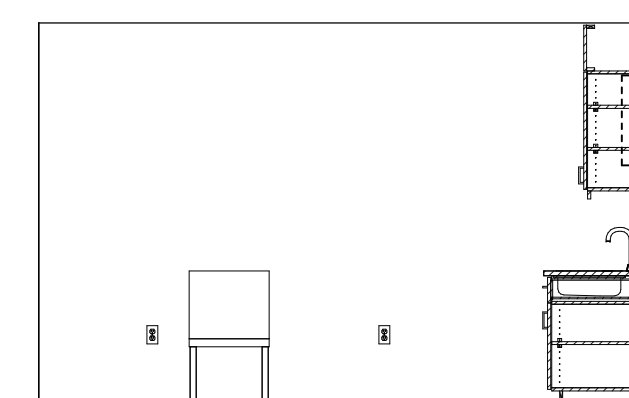
A2 Enlarged RCP - Typical O.P. Surgery Prep/Recovery
1/4" = 1'-0"



A3 Typical O.P. Surgery Prep/Recovery - South Elevation
1/4" = 1'-0"



B5 Typical O.P. Surgery Prep/Recovery - East Elevation
1/4" = 1'-0"



A5 Typical O.P. Surgery Prep/Recovery - West Elevation
1/4" = 1'-0"

Note: Typical of Exam Room 1904, 1905, 1906, 1907, 1908, 1913, and 1914.

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Sampson
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PROJECT FOR

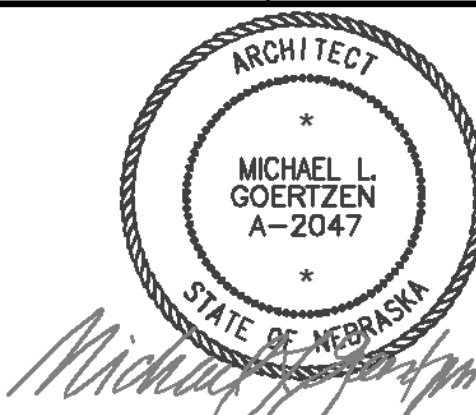
FAMC
Fremont Area Medical Center

Fremont Area
Medical Center

MASTER PLAN
IMPLEMENTATION
PROJECT
450 EAST 23rd STREET
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BID PACKAGE #3

MARK	DATE	DESCRIPTION
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PROJECT NUMBER 0000000197729		
ORIGINAL ISSUE 11/05/13		
PROJECT MANAGER	Mike Goertzen	
PROJECT DESIGNER	Brian Zabloudil	
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EQUIPMENT PLANNER	Greg Olsen	
DRAWN BY	Author	

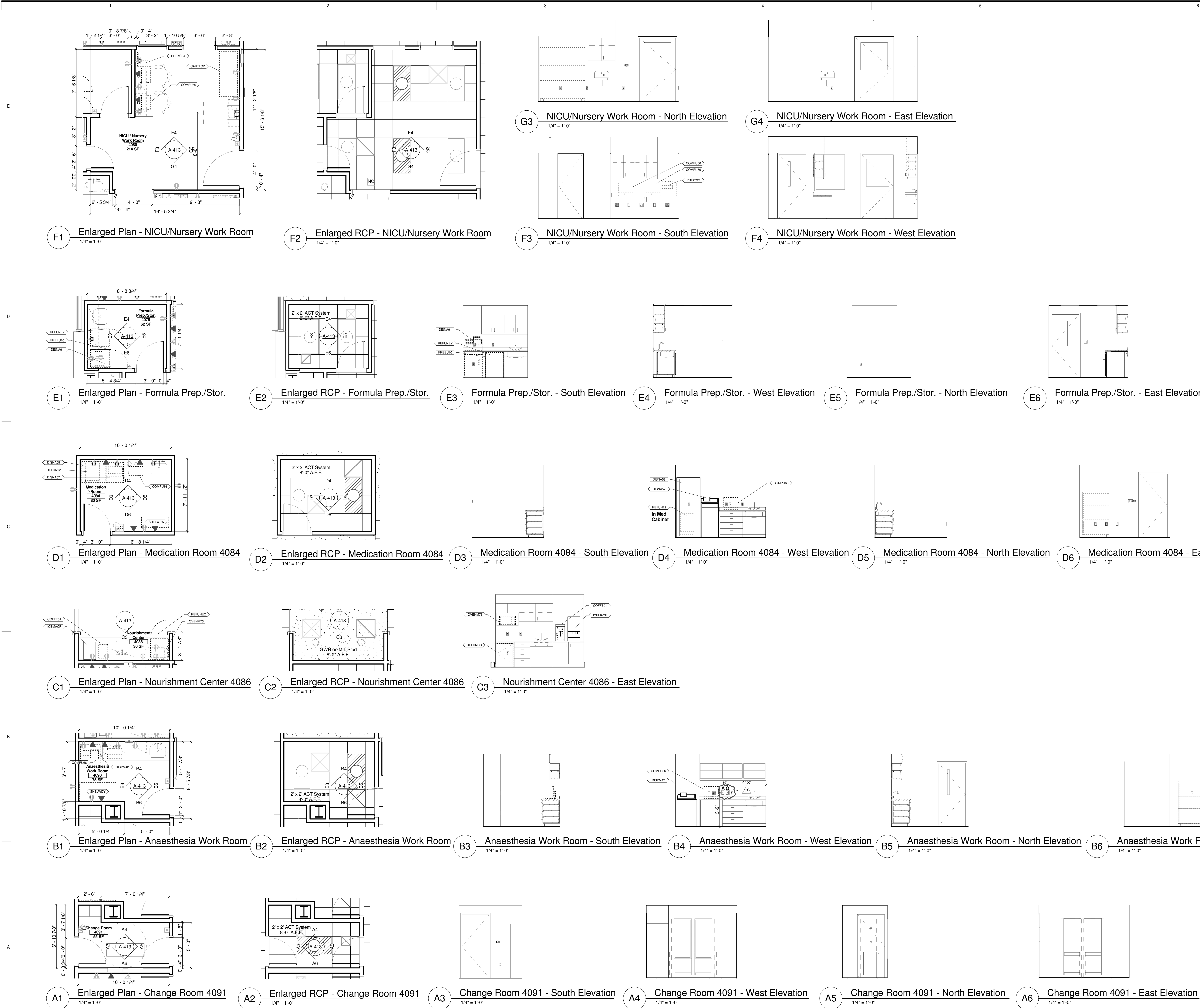


ENLARGED PLANS
AND INTERIOR
ELEVATIONS

SCALE 1/4" = 1'-0"

A-404

CONSTRUCTION DOCUMENTS



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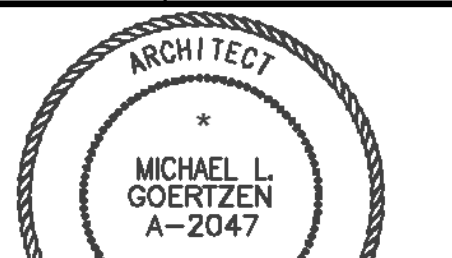


**Fremont Area
Medical Center**

**MASTER PLAN
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450 EAST 23rd STREET
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ELECTRICAL ENGINEER Jill McFee		
INTERIOR DESIGNER Greg Olsen		
EQUIPMENT PLANNER Author		



**ENLARGED PLANS
AND INTERIOR
ELEVATIONS**

SCALE 1/4" = 1'-0"

A-413

CONSTRUCTION DOCUMENTS

DOOR AND FRAME SCHEDULE - LEVEL 1																
IDENTIFICATION			DIMENSIONS				PANEL				FRAME			HARDWARE		
ROOM NO.	ROOM NAME	DOOR NO.	WIDTH			H	TYPE	MAT'L	FIN.	GLASS TYPE	TYPE	MAT'L	FIN.	FIRE RATING	GROUP	NOTES
			W1	W2	TOTAL											
1005	Family Waiting	1005	3'-0"	3'-0"	6'-0"	7'-0"	N/N	WD	STN	-	1	HM	PNT	HW-45M	AC	
1017	Communications Room	1017	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	HW-02	AC	
1019	Employee Health Exam	1019A	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			
1019	Employee Health Exam	1019B	3'-0"			7'-0"	-				3	HM	PNT	N/A		
1026	Corridor	1026	3'-8"	3'-8"	7'-4"	7'-0"	N/N	WD	STN	C8	2	HM	PNT	90 MIN	HW-38M	MH
1029	Physician Sleep Room	1029	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	20 MIN	CA-03	AC
1031	Manager Office	1031	3'-0"			7'-0"	N	WD	STN	-	1	HM	PNT	20 MIN	HW-02	AC
1217	Lobby	1217	3'-0"	3'-0"	6'-0"	7'-0"	N/N	WD	STN	C8	1	HM	PNT	90 MIN	HW-38M	MH
1757	Office	1757	3'-0"			7'-0"	F	WD	STN	-	4	HM	PNT	HW-02		
1853	JC	1853	2'-4"			7'-0"	F	WD	STN	-	1	HM	PNT	HW-04	DO	
1867	Operating Room #2	1867	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	AU-21	DO	
1869	Corridor	1869	3'-0"	3'-0"	6'-0"	7'-0"	N/N	WD	STN	-	1	HM	PNT	AU-21	DO	
1873	Work Station	1873	3'-8"	3'-8"	7'-4"	7'-0"	N/N	WD	STN	T	1	HM	PNT	CA-10	AC	
1903	Entrance/Waiting	1903	3'-8"	3'-8"	7'-4"	7'-0"	N/N	WD	STN	T	1	HM	PNT	HW-09		
1904	Exam Room (Isolation)	1904	3'-6"			7'-0"	F	WD	STN	-	1	HM	PNT	HW-09		
1906	Exam Room	1905	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	HW-09		
1906	Exam Room	1906	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	HW-09		
1907	Exam Room	1907	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	HW-09		
1908	Exam Room	1908	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	HW-09		
1909	Exam Room	1909	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	HW-09		
1910	Exam Room	1910	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	HW-09		
1911	Exam Room	1911	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	HW-09		
1912	Fluoroscapy Room	1912	4'-0"			7'-0"	R	WD	STN	-	1R	HM	PNT	HW-81		
1913	Exam Room	1913	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	HW-09		
1914	Med.	1914	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	CA-03	AC	
1915	Patient Toilet	1915	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	HW-05		
1916	Patient Toilet	1916	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	HW-05		
1917	Corridor	1917	3'-8"	3'-8"	7'-4"	7'-0"	N/N	WD	STN	T	1	HM	PNT	AU-34	DO, AC	
1919	Exam Room	1919	3'-8"	3'-8"	7'-4"	7'-0"	N/N	WD	STN	T	2	HM	PNT	AU-34	DO, AC	
1922	Exam Room	1922	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	HW-09		
1922	J.C.	1924	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	HW-04		
1926	Equip. Stor.	1926	3'-0"			7'-0"	N	WD	STN	C8	1	HM	PNT	CA-03	AC	
1927	Clean Supply Room	1927	3'-6"			7'-0"	F	WD	STN	-	1	HM	PNT	45 MIN	CA-03	AC
1928	Equip. Stor.	1928	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	45 MIN	CA-03	AC
1929	Equip. Stor.	1929	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	CA-03	AC	
1931	Renovated for Elevator Lobby	1931	3'-8"	3'-8"	7'-4"	7'-0"	N/N	WD	STN	C8	1	HM	PNT	20 MIN	AU-34	DO, AC
1932	Security	1932	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	CA-03	AC	
1933	Corridor	1933A	3'-8"	3'-8"	7'-4"	7'-0"	N/N	WD	STN	T	2	HM	PNT	HW-38M	MH	
1933	Corridor	1933B	3'-8"	3'-8"	7'-4"	7'-0"	N/N	WD	STN	C8	2	HM	PNT	90 MIN	AU-34	DO, AC
1933	Corridor	1933C	3'-8"	3'-8"	7'-4"	7'-0"	N/N	WD	STN	C8	2	HM	PNT	90 MIN	AU-34	DO, AC
1933	Corridor	1933D	3'-8"	3'-8"	7'-4"	7'-0"	N/N	WD	STN	T	1	HM	PNT	AU-21	DO	
1939	Sub-Sterile	1939A	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	HW-13		
1939B	Sub-Sterile	1939B	3'-0"			7'-0"	N	WD	STN	-	1	HM	PNT	HW-13		
1941	Operating Room 7	1941	4'-0"	2'-0"	6'-0"	7'-0"	F/F	WD	STN	T	1	HM	PNT	AU-21	DO	
1942	Operating Room 8	1942A	4'-0"	2'-0"	6'-0"	7'-0"	F/F	WD	STN	T	1	HM	PNT	AU-21	DO	
1942	Operating Room 8	1942B	3'-6"	3'-6"	7'-0"	7'-0"	N	WD	STN	T	1	HM	PNT	HW-13		
1943	Corridor	1943	3'-6"	3'-6"	7'-0"	7'-0"	N/N	WD	STN	T	1	HM	PNT	AU-34	DO, AC	
1944	Corridor	1944A	3'-8"			7'-0"	F	HM	PNT	-	1M	HM	PNT	HW-30D	DPS	
1944	Corridor	1944B	3'-8"			7'-0"	F	HM	PNT	-	1M	HM	PNT	HW-30D	DPS	
1944	Corridor	1944C	3'-8"			7'-0"	F	HM	PNT	-	1M	HM	PNT	HW-30D	DPS	
1944	Corridor	1944D	3'-0"			7'-0"	F	HM	PNT	-	1	HM	PNT	HW-26		
1946	Corridor	1946A	3'-0"	3'-0"	6'-0"	7'-0"	N/N	WD	STN	T	1	HM	PNT	HW-30M		
1946	Corridor	1946B	3'-8"			7'-0"	F	HM	PNT	-	1M	HM	PNT	HW-30A	LA, DPS	
1950	Stair	1950A	3'-8"			7'-0"	F	WD	STN	-	1	HM	PNT	CA-04	AC	
1950	Stair	1950B	3'-8"			7'-0"	FG	ALUM	ANOD	T	-	ALUM	ANOD	90 MIN	HW-30A	LA, DPS

DOOR AND FRAME SCHEDULE - LEVEL 3																	
IDENTIFICATION			PANEL							FRAME				HARDWARE			
ROOM NO.	ROOM NAME	DOOR NO.	DIMENSIONS			H	TYPE	MAT'L	FIN.	GLASS TYPE	TYPE	MAT'L	FIN.	FIRE RATING	GROUP	ELECTRICAL	NOTES
			W1	W2	TOTAL												
3001	Medical/ Telemetry (Ceiling Lift)	3001	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-16		
3001	Medical/ Telemetry (Ceiling Lift)	3001A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		SLIDING
3001	Medical/ Telemetry (Ceiling Lift)	3001B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-10S		
3002	Medical/ Telemetry	3002	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-16		
3002	Medical/ Telemetry	3002A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		SLIDING
3002	Medical/ Telemetry	3002B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-10S		
3003	Medical/ Telemetry	3003	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-16		
3003	Medical/ Telemetry	3003A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		SLIDING
3003	Medical/ Telemetry	3003B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-10S		
3004	Medical/ Telemetry	3004	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-16		
3004	Medical/ Telemetry	3004A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		SLIDING
3004	Medical/ Telemetry	3004B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-10S		
3005	Medical/ Telemetry	3005	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-16		
3005	Medical/ Telemetry	3005A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		SLIDING
3005	Medical/ Telemetry	3005B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-10S		
3006	Medical/ Telemetry (Ceiling Lift)	3006	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-16		
3006	Medical/ Telemetry (Ceiling Lift)	3006A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		SLIDING
3006	Medical/ Telemetry (Ceiling Lift)	3006B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-10S		
3007	Medical/ Telemetry (Isolation and Ceiling Lift)	3007	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-16		
3007	Medical/ Telemetry (Isolation and Ceiling Lift)	3007A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		SLIDING
3007	Medical/ Telemetry (Isolation and Ceiling Lift)	3007B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-10S		
3008	Medical/ Telemetry	3008	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-16		
3008	Medical/ Telemetry	3008A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		SLIDING
3008	Medical/ Telemetry	3008B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-10S		
3009	Medical/ Telemetry	3009	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-16		
3009	Medical/ Telemetry	3009A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		SLIDING
3009	Medical/ Telemetry	3009B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-10S		
3010	Medical/ Telemetry	3010	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-16		
3010	Medical/ Telemetry	3010A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		SLIDING
3010	Medical/ Telemetry	3010B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-10S		
3011	Medical/ Telemetry	3011	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-16		
3011	Medical/ Telemetry	3011A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		SLIDING
3011	Medical/ Telemetry	3011B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-10S		
3012	Medical/ Telemetry	3012	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-16		
3012	Medical/ Telemetry	3012A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		SLIDING
3012	Medical/ Telemetry	3012B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-10S		
3013	Medical/ Telemetry	3013	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-16		
3013	Medical/ Telemetry	3013A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		SLIDING
3013	Medical/ Telemetry	3013B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-10S		
3014	Medical/ Telemetry	3014	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-16		
3014	Medical/ Telemetry	3014A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		SLIDING
3014	Medical/ Telemetry	3014B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-10S		
3015	Medical/ Telemetry	3015	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-16		
3015	Medical/ Telemetry	3015A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		SLIDING
3015	Medical/ Telemetry	3015B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-10S		
3016	Medical/ Telemetry	3016	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-16		
3016	Medical/ Telemetry	3016A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		SLIDING
3016	Medical/ Telemetry	3016B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-10S		
3017	Medical/ Telemetry	3017	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-16		
3017	Medical/ Telemetry	3017A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		SLIDING
3017	Medical/ Telemetry	3017B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-10S		
3018	ICU PATIENT ROOM (ISOLATION AND CEILING LIFT)	3018	3'-6"	1'-6"	5'-0"	7'-0"	F/F	WD	STN	-	1	HM	PNT		HW-43P		

DOOR AND FRAME SCHEDULE - LEVEL 4																	
IDENTIFICATION			DIMENSIONS			PANEL				FRAME				HARDWARE			
ROOM NO.	ROOM NAME	DOOR NO.	WIDTH			H	TYPE	MAT'L	FIN.	GLASS TYPE	TYPE	MAT'L	FIN.	FIRE RATING	GROUP	ELECTRICAL	NOTES
			W1	W2	TOTAL												
4001	Post-Surgical (Ceiling Lift)	4001	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		N/A	HW-16	SLIDING
4001	Post-Surgical (Ceiling Lift)	4001A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		
4001	Post-Surgical (Ceiling Lift)	4001B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		N/A	HW-10S	
4002	Post-Surgical	4002	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-73	SLIDING
4002	Post-Surgical	4002A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		
4002	Post-Surgical	4002B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-10S	
4003	Post-Surgical	4003	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-16	SLIDING
4003	Post-Surgical	4003A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		
4003	Post-Surgical	4003B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-10S	
4004	Post-Surgical	4004	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-73	SLIDING
4004	Post-Surgical	4004A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		
4004	Post-Surgical	4004B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-10S	
4005	Post-Surgical	4005	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-73	SLIDING
4005	Post-Surgical	4005A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		
4005	Post-Surgical	4005B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-10S	
4006	Post-Surgical (Isolation/Ceiling Lift)	4006	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-16	SLIDING
4006	Post-Surgical (Isolation/Ceiling Lift)	4006A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		
4006	Post-Surgical (Isolation/Ceiling Lift)	4006B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-10S	
4007	LRDP Patient Room	4007	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-16	SLIDING
4007	LRDP Patient Room	4007A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		
4007	LRDP Patient Room	4007B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-10S	
4008	Post-Surgical (Ceiling Lift)	4008	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-73	SLIDING
4008	Post-Surgical (Ceiling Lift)	4008A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		
4008	Post-Surgical (Ceiling Lift)	4008B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-10S	
4009	Post-Surgical	4009	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-16	SLIDING
4009	Post-Surgical	4009A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		
4009	Post-Surgical	4009B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-10S	
4010	Post-Surgical	4010	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-16	SLIDING
4010	Post-Surgical	4010A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		
4010	Post-Surgical	4010B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-10S	
4011	Post-Surgical	4011	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-16	SLIDING
4011	Post-Surgical	4011A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		
4011	Post-Surgical	4011B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-10S	
4012	Post-Surgical (Ceiling Lift)	4012	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-16	SLIDING
4012	Post-Surgical (Ceiling Lift)	4012A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		
4012	Post-Surgical (Ceiling Lift)	4012B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-10S	
4013	Post-Surgical	4013	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-16	SLIDING
4013	Post-Surgical	4013A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		
4013	Post-Surgical	4013B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-10S	
4014	Post-Surgical	4014	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-16	SLIDING
4014	Post-Surgical	4014A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		
4014	Post-Surgical	4014B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-10S	
4015	Post-Surgical	4015	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-16	SLIDING
4015	Post-Surgical	4015A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		
4015	Post-Surgical	4015B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-10S	
4016	Post-Surgical	4016	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-16	SLIDING
4016	Post-Surgical	4016A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		
4016	Post-Surgical	4016B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-10S	
4017	Post-Surgical	4017	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-16	SLIDING
4017	Post-Surgical	4017A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		
4017	Post-Surgical	4017B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-10S	
4018	LRDP Patient Room (Isolation)	4018	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-16	SLIDING
4018	LRDP Patient Room (Isolation)	4018A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		
4018	LRDP Patient Room (Isolation)	4018B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-10S	
4019	LRDP Patient Room	4019	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-73	SLIDING
4019	LRDP Patient Room	4019A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		
4019	LRDP Patient Room	4019B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-10S	
4020	LRDP Patient Room	4020	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-16	SLIDING
4020	LRDP Patient Room	4020A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		
4020	LRDP Patient Room	4020B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-10S	
4021	LRDP Patient Room	4021	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-16	SLIDING
4021	LRDP Patient Room	4021A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		
4021	LRDP Patient Room	4021B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-10S	
4022	LRDP Patient Room	4022	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-73	SLIDING
4022	LRDP Patient Room	4022A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		
4022	LRDP Patient Room	4022B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-10S	
4023	Joint Center/Post-Surgical (Flex Room)	4023	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-16	SLIDING
4023	Joint Center/Post-Surgical (Flex Room)	4023A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		
4023	Joint Center/Post-Surgical (Flex Room)	4023B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-10S	
4024	Joint Center	4024	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-16	SLIDING
4024	Joint Center	4024A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		
4024	Joint Center	4024B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-10S	
4025	Joint Center	4025	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-16	SLIDING
4025	Joint Center	4025A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		
4025	Joint Center	4025B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-10S	
4026	Joint Center	4026	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-16	SLIDING
4026	Joint Center	4026A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		
4026	Joint Center	4026B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-10S	
4027	Joint Center	4027	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-16	SLIDING
4027	Joint Center	4027A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		
4027	Joint Center	4027B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-10S	
4028	Joint Center	4028	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-16	SLIDING
4028	Joint Center	4028A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		
4028	Joint Center	4028B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-10S	

DOOR AND FRAME SCHEDULE - LEVEL 4																			
IDENTIFICATION			DIMENSIONS				PANEL				FRAME				HARDWARE				NOTES
ROOM NO.	ROOM NAME	DOOR NO.	W1	W2	TOTAL	H	TYPE	MAT'L	FIN.	GLASS TYPE	TYPE	MAT'L	FIN.	FIRE RATING	GROUP	ELECTRICAL			
4029	Joint Center	4029	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT		N/A	HW-16		SLIDING	
4029	Joint Center	4029A	3'-6"			7'-0"	-	WD	STN	-	-	-	-			HW-73			
4029	Joint Center	4029B	2'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-109			
4030	Equipment Storage	4030	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	45 MIN	HW-09	CA-03	AC		
4031	Public Waiting	4031	3'-0"			7'-0"	F	WD	STN	-	4	HM	PNT			HW-08			
4032	Reception (Volunteer)	4032	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-05			
4033	Conf / Consult	4033	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-02			
4034	Office-Shared	4034	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			CA-03			
4035	Equipment Storage	4035	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	45 MIN	HW-02	CA-03	AC		
4036	Group Teaching Room	4036	3'-6"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-02			
4037	Elec. Room	4037	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	45 MIN	HW-04	CA-03	AC		
4038	Equipment Storage	4038	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	45 MIN	CA-03	AC			
4040	Equipment Storage	4040	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	45 MIN	CA-03	AC			
4042	Clean Utility Room	4042A	3'-0"			7'-0"	N	WD	STN	C8	1	HM	PNT	45 MIN	CA-03	AC			
4042	Clean Utility Room	4042B	3'-0"			7'-0"	N	WD	STN	C8	1	HM	PNT	45 MIN	CA-03	AC			
4043	Medication Room	4043A	3'-0"			7'-0"	N	WD	STN	T	1	HM	PNT			CA-03	AC		
4043	Medication Room	4043B	3'-0"			7'-0"	N	WD	STN	T	1	HM	PNT			CA-03	AC		
4044	Corridor	4044	3'-8"	3'-8"	7'-4"	7'-0"	NN	WD	STN	T	2	HM	PNT			AU-34M DO, AC, WP, MH			
4046	Equipment Storage	4046	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	45 MIN	CA-03				
4047	Stair	4047	3'-8"			7'-0"	F	WD	STN	-	1	HM	PNT	90 MIN	CA-06	AC, WP			
4048	J.C.	4048	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	45 MIN	HW-04				
4050	Staff Toilet	4050	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-05			
4051	Staff Toilet/Shower	4051	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-05			
4052	Staff Lockers	4052A	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			CA-03	AC		
4052	Staff Lockers	4052B	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			CA-03	AC		
4053	Staff Lounge	4053A	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			CA-03	AC		
4053	Staff Lounge	4053B	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			CA-03	AC		
4054	Equipment Storage	4054	3'-6"			7'-0"	F	WD	STN	-	1	HM	PNT	45 MIN	CA-03				
4058	Corridor	4058	3'-8"	3'-8"	7'-4"	7'-0"	NN	WD	STN	C8	2	HM	PNT	90 MIN	AU-30	AC, MH			
4059	Soiled Utility Room	4059A	3'-6"			7'-0"	F	WD	STN	-	1	HM	PNT	45 MIN	CA-03				
4059	Soiled Utility Room	4059B	3'-6"			7'-0"	F	WD	STN	-	1	HM	PNT	45 MIN	CA-03				
4060	Triage/ Prep.	4060	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-09			
4060	Triage/ Prep.	4060A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		SLIDING		
4061	Triage/ Prep.	4061	4'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-09			
4061A	Patient Toilet	4061A	3'-6"			7'-0"	-	WD	STN	-	-	-	-	N/A	HW-73		SLIDING		
4064	Sub-Wait/Consult	4064	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-05			
4065	Equipment Storage	4065A	3'-0"			7'-0"	N	WD	STN	C8	1	HM	PNT	45 MIN	CA-03	AC			
4065	Equipment Storage	4065B	3'-0"			7'-0"	N	WD	STN	C8	1	HM	PNT	45 MIN	CA-03	AC			
4066	Comm. Room	4066	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	45 MIN	CA-03	AC			
4067	Elec. Room	4067	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	45 MIN	HW-04				
4068	Clean Supply Room	4068A	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	45 MIN	CA-03				
4068	Clean Supply Room	4068B	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	45 MIN	CA-03	AC			
4069	Staff Toilet	4069	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-05			
4070	Corridor	4070A	3'-8"	3'-8"	7'-4"	7'-0"	NN	WD	STN	T	2	HM	PNT			HW-38M MH			
4070	Corridor	4070B	3'-8"	3'-8"	7'-4"	7'-0"	NN	WD	STN	T	2	HM	PNT			HW-38M MH			
4071	Medication Room	4071A	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			CA-03	AC		
4071	Medication Room	4071B	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			CA-03	AC		
4072	Office-Private	4072	3'-0"			7'-0"	F	WD	STN	-	4	HM	PNT			HW-02			
4073	Office-Private	4073	3'-0"			7'-0"	F	WD	STN	-	4	HM	PNT			HW-02			
4077	NICU-Private Room	4077	3'-0"			7'-0"	G	WD	STN	T	1	HM	PNT			HW-13			
4078	J.C.	4078	2'-6"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-04			
4079	Formula Prep./Stor.	4079	3'-0"			7'-0"	N	WD	STN	T	1	HM	PNT			HW-14			
4080	NICU / Nursery Work Room	4080	4'-0"			7'-0"	G	WD	STN	T	1	HM	PNT			CA-03	AC		
4081	Well Baby Nursery, Infant Bathing Sink	4081	3'-6"			7'-0"	G	WD	STN	T	1	HM	PNT			HW-13			
4084	Medication Room	4084	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			CA-03	AC		
4088	Physician's Lounge	4088	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			CA-03	AC		
4089	On-Call Room	4089	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-12			
4090	Anaesthesia Work Room	4090	3'-0"			7'-0"	N	WD	STN	T	1	HM	PNT			CA-03	AC		
4091	Change Room	4091A	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			CA-03	AC		
4091	Change Room	4091B	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			CA-03	AC		
4092	Equipment Storage	4092	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			CA-03	AC		
4093	Toilet/Shower	4093	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-06			
4094	Corridor	4094A	3'-8"	3'-8"	7'-4"	7'-0"	NN	WD	STN	T	1	HM	PNT			AU-24 DO, AC			
4094	Corridor	4094B	3'-8"	3'-8"	7'-4"	7'-0"	NN	WD	STN	T	1	HM	PNT			AU-22 DO, AC			
4096	J.C.	4096	2'-6"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-04			
4097	C-Section OR	4097	4'-0"	2'-0"	6'-0"	7'-0"	FF	WD	STN	T	1	HM	PNT			AU-21			
4098	Equipment Storage	4098	3'-8"	3'-8"	7'-4"	7'-0"	NN	WD	STN	C8	2	HM	PNT	90 MIN	CA-03	AC, MH			
4099	Equipment Storage	4099	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	45 MIN	CA-03				
4100	J.C.	4100	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	45 MIN	HW-04				
4101	Corridor	4101A	3'-8"	3'-8"	7'-4"	7'-0"	NN	WD	STN	T	2	HM	PNT			AU-34M DO, AC, MH			
4101	Corridor	4101B	3'-8"	3'-8"	7'-4"	7'-0"	NN	WD	STN	T	2	HM	PNT			AU-34M DO, AC, MH			
4102	Equipment Storage	4102	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	45 MIN	CA-03	AC			
4104	Equipment Storage	4104	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	45 MIN	CA-03	AC			
4105	Equipment Storage	4105	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	45 MIN	CA-03	AC			
4106	Comm. Room	4106	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	45 MIN	CA-03	AC			
4107	Corridor	4107A	3'-8"	3'-8"	7'-4"	7'-0"	NN	WD	STN	T	2	HM	PNT			AU-34M DO, AC, WP, MH			
4107	Corridor	4107B	3'-8"	3'-8"	7'-4"	7'-0"	NN	WD	STN	T	2	HM	PNT			AU-34M DO, AC, MH			
4108	Equipment Storage	4108	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT	45 MIN	CA-03				
4109	Tub Room	4109	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-05			
4110	Equipment Storage	4110	3'-6"			7'-0"	F	WD	STN	-	1	HM	PNT	45 MIN	CA-03	AC			
4111	Public Toilet	4111	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-06			
4112	Public Toilet	4112	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-06			
4116	Stair	4116	3'-8"			7'-0"	F	WD	STN	-	1	HM	PNT	90 MIN	HW-26				
4117	Storage	4117	3'-0"			7'-0"	F	WD	STN	-	1	HM	PNT			HW-04			
4123	Stair	4123	3'-8"			7'-0"	F	WD	STN	-	1	HM	PNT	90 MIN	CA-06	AC, WP			

E

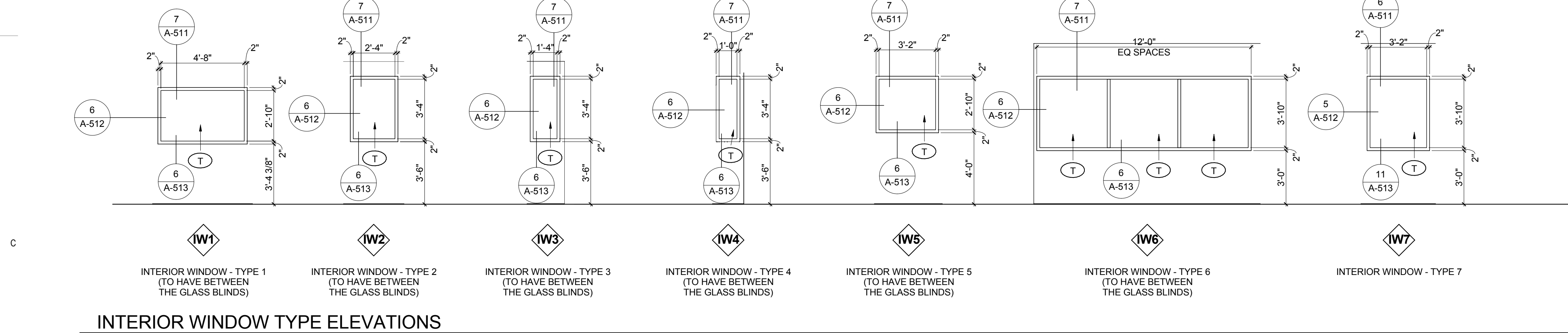
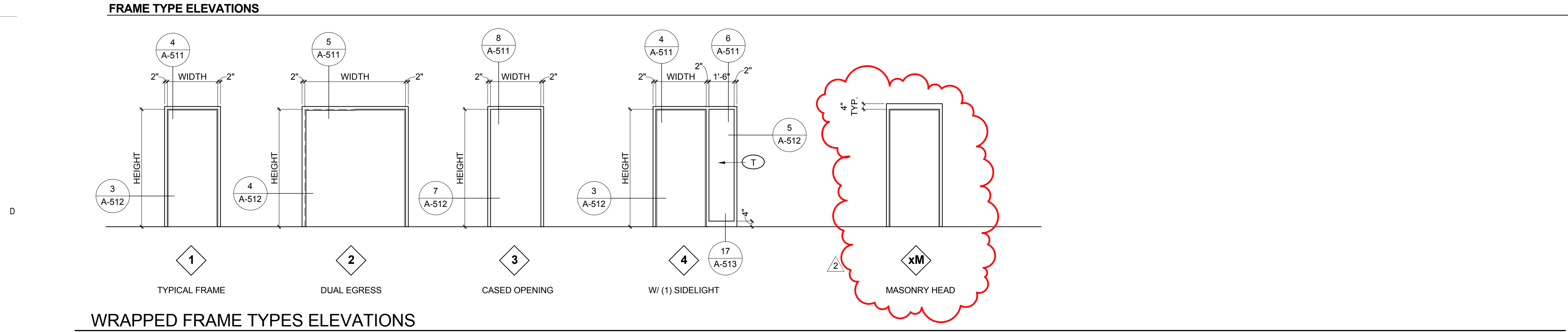
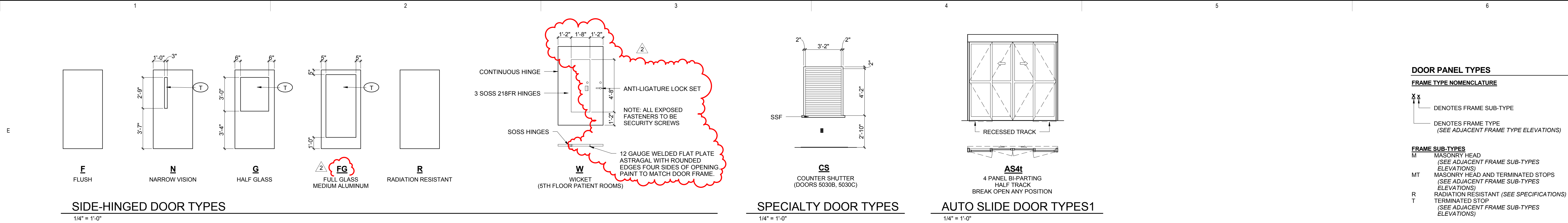
D

C

B

A

DOOR AND FRAME SCHEDULE - LEVEL 5																	
IDENTIFICATION			DIMENSIONS				PANEL				FRAME				HARDWARE		
ROOM NO.	ROOM NAME	DOOR NO.	WIDTH			H	TYPE	MAT'L	FIN.	GLASS TYPE	TYPE	MAT'L	FIN.	FIRE RATING	GROUP	ELECTRICAL	NOTES
			W1	W2	TOTAL												
5001	Patient Bed	5001	4'- 0"			7'-0"	W	WD	STN	-	1	HM	PNT		HW-21A		
5001A	Patient Toilet/Shower	5001A	3'- 0"			7'-0"	-	-	-	-	3	HM	PNT	N/A	HW-21A		
5002	Patient Bed	5002	4'- 0"			7'-0"	W	WD	STN	-	1	HM	PNT		HW-21A		
5002A	Patient Toilet/Shower	5002A	3'- 0"			7'-0"	-	-	-	-	3	HM	PNT	N/A	HW-21A		
5003	Patient Bed	5003	4'- 0"			7'-0"	W	WD	STN	-	1	HM	PNT		HW-21A		
5003A	Patient Toilet/Shower	5003A	3'- 0"			7'-0"	-	-	-	-	3	HM	PNT	N/A	HW-21A		
5004	Patient Bed	5004	4'- 0"			7'-0"	W	WD	STN	-	1	HM	PNT		HW-21A		
5004A	Patient Toilet/Shower	5004A	3'- 0"			7'-0"	-	-	-	-	3	HM	PNT	N/A	HW-21A		
5005	Patient Bed	5005	4'- 0"			7'-0"	W	WD	STN	-	1	HM	PNT		HW-21A		
5005A	Patient Toilet/Shower	5005A	3'- 0"			7'-0"	-	-	-	-	3	HM	PNT	N/A	HW-21A		
5006	Patient Bed	5006	4'- 0"			7'-0"	W	WD	STN	-	1	HM	PNT		HW-21A		
5006A	Patient Toilet/Shower	5006A	3'- 0"			7'-0"	-	-	-	-	3	HM	PNT	N/A	HW-21A		
5007	Patient Bed	5007	4'- 0"			7'-0"	W	WD	STN	-	1	HM	PNT		HW-21A		
5007A	Patient Toilet/Shower	5007A	3'- 0"			7'-0"	-	-	-	-	3	HM	PNT	N/A	HW-21A		
5008	Patient Bed	5008	4'- 0"			7'-0"	W	WD	STN	-	1	HM	PNT		HW-21A		
5008A	Patient Toilet/Shower	5008A	3'- 0"			7'-0"	-	-	-	-	3	HM	PNT	N/A	HW-21A		
5009	Patient Bed	5009	4'- 0"			7'-0"	W	WD	STN	-	1	HM	PNT		HW-21A		
5009A	Patient Toilet/Shower	5009A	3'- 0"			7'-0"	-	-	-	-	3	HM	PNT	N/A	HW-21A		
5010	Patient Bed	5010	4'- 0"			7'-0"	W	WD	STN	-	1	HM	PNT		HW-21A		
5010A	Patient Toilet/Shower	5010A	3'- 0"			7'-0"	-	-	-	-	3	HM	PNT	N/A	HW-21A		
5011	Patient Bed	5011	4'- 0"			7'-0"	W	WD	STN	-	1	HM	PNT		HW-21A		
5011A	Patient Toilet/Shower	5011A	3'- 0"			7'-0"	-	-	-	-	3	HM	PNT	N/A	HW-21A		
5012	Patient Bed	5012	4'- 0"			7'-0"	W	WD	STN	-	1	HM	PNT		HW-21A		
5012A	Patient Toilet/Shower	5012A	3'- 0"			7'-0"	-	-	-	-	3	HM	PNT	N/A	HW-21A		
5013	Patient Bed	5013	4'- 0"			7'-0"	W	WD	STN	-	1	HM	PNT		HW-21A		
5013A	Patient Toilet/Shower	5013A	3'- 0"			7'-0"	-	-	-	-	3	HM	PNT	N/A	HW-21A		
5014	Patient Bed	5014	4'- 0"			7'-0"	W	WD	STN	-	1	HM	PNT		HW-21A		
5014A	Patient Toilet/Shower	5014A	3'- 0"			7'-0"	-	-	-	-	3	HM	PNT	N/A	HW-21A		
5015	Patient Bed	5015	4'- 0"			7'-0"	W	WD	STN	-	1	HM	PNT		HW-21A		
5015A	Patient Toilet/Shower	5015A	3'- 0"			7'-0"	-	-	-	-	3	HM	PNT	N/A	HW-21A		
5016	Patient Bed	5016	4'- 0"			7'-0"	W	WD	STN	-	1	HM	PNT		HW-21A		
5016A	Patient Toilet/Shower	5016A	3'- 0"			7'-0"	-	-	-	-	3	HM	PNT	N/A	HW-21A		
5017	Patient Bed	5017	4'- 0"			7'-0"	W	WD	STN	-	1	HM	PNT		HW-21A		
5017A	Patient Toilet/Shower	5017A	3'- 0"			7'-0"	-	-	-	-	3	HM	PNT	N/A	HW-21A		
5018	Patient Bed	5018	4'- 0"			7'-0"	W	WD	STN	-	1	HM	PNT		HW-21A		
5018A	Patient Toilet/Shower	5018A	3'- 0"			7'-0"	-	-	-	-	3	HM	PNT	N/A	HW-21A		
5019	Patient Bed	5019	4'- 0"			7'-0"	W	WD	STN	-	1	HM	PNT		HW-21A		
5019A	Patient Toilet/Shower	5019A	3'- 0"			7'-0"	-	-	-	-	3	HM	PNT	N/A	HW-21A		
5020	Patient Bed	5020	4'- 0"			7'-0"	W	WD	STN	-	1	HM	PNT		HW-21A		
5020A	Patient Toilet/Shower	5020A	3'- 0"			7'-0"	-	-	-	-	3	HM	PNT	N/A	HW-21A		
5021	Staff Lounge	5021	3'- 0"			7'-0"	F	WD	STN	-	1	HM	PNT		CA-05A	AC	
5024	Staff Lockers	5024A	3'- 0"			7'-0"	F	WD	STN	-	1	HM	PNT		CA-05A	AC	
5024	Staff Lockers	5024B	3'- 0"			7'-0"	F	WD	STN	-	1	HM	PNT		CA-05A	AC	
5025	Staff Toilet	5025	3'- 0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-06		
5026	Staff Toilet	5026	3'- 0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-06		
5027	Multipurpose Room	5027A	3'- 0"			7'-0"	N	WD	STN	S-1	1	HM	PNT		CA-05A	AC	
5027	Multipurpose Room	5027B	3'- 0"			7'-0"	N	WD	STN	S-1	1	HM	PNT		CA-05A	AC	
5028	Elec. Room	5028	3'- 0"			7'-0"	F	WD	STN	-	1	HM	PNT	45 MIN	HW-04		
5029	Corridor	5029	3'- 8"	3'- 8"	7'- 4"	7'-0"	NN	WD	STN	S-1	2	HM	PNT		CA-14	AC, WP	
5030	Medication Room	5030A	3'- 0"			7'-0"	G	WD	STN	S-1	1	HM	PNT		CA-05A	AC	
5030	Medication Room	5030B	3'- 2"			4'- 2"	CS	SS	SEE SPEC	-	11	HM	PNT		CA-05A	AC	
5030	Medication Room	5030C	3'- 2"			4'- 2"	CS	SS	SEE SPEC	-	11	HM	PNT		CA-05A	AC	
5031	Communication Center	5031A	3'- 0"			7'-0"	N	WD	STN	S-1	1	HM	PNT		CA-03	AC	
5031	Communication Center	5031B	3'- 0"			7'-0"	N	WD	STN	S-1	1	HM	PNT		CA-03	AC	
5032	Toilet	5032	3'- 0"			7'-0"	F	HM	STN	-	1	HM	PNT		HW-22		
5033	Seclusion Room	5033	3'- 0"			7'-0"	N	HM	STN	S-1	1	HM	PNT		HW-22		
5034	Passage	5034	3'- 0"			7'-0"	N	WD	STN	S-1	1	HM	PNT		CA-03B	AC	
5036	Stair	5036	3'- 8"			7'-0"	F	WD	STN	-	1	HM	PNT	90 MIN	CA-06	AC, WP	SIZE TO MATCH EXISTING DOOR
5046	Passage	5046	3'- 0"			7'-0"	N	WD	STN	S-1	1	HM	PNT		CA-05A	AC	
5047	Office - Private	5047	3'- 0"			7'-0"	N	WD	STN	-	1	HM	PNT		HW-01		
5048	Office - Private	5048	3'- 0"			7'-0"	N	WD	STN	S-1	1	HM	PNT		HW-01		
5050	Consultation/ Intake	5050	3'- 0"			7'-0"	F	WD	STN	-	1	HM	PNT		CA-03	AC	
5051	Shower/Toilet	5051	3'- 0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-23A		
5052	Multipurpose Room	5052A	3'- 0"			7'-0"	N	WD	STN	S-1	1	HM	PNT		CA-05A	AC	
5052	Multipurpose Room	5052B	3'- 0"			7'-0"	N	WD	STN	S-1	1	HM	PNT		CA-05A	AC	
5053	Clean Utility Room	5053A	3'- 0"			7'-0"	F	WD	STN	-	1	HM	PNT		CA-05A	AC	
5053	Clean Utility Room	5053B	3'- 0"			7'-0"	F	WD	STN	-	1	HM	PNT		CA-05A	AC	
5054	Equipment Storage	5054A	3'- 0"			7'-0"	F	WD	STN	-	1	HM	PNT	45 MIN	CA-05A	AC	
5054	Equipment Storage	5054B	3'- 0"			7'-0"	F	WD	STN	-	1	HM	PNT	45 MIN	CA-05A	AC	
5055	Soiled Utility Room	5055A	3'- 6"			7'-0"	F	WD	STN	-	1	HM	PNT	45 MIN	CA-05A	AC	
5055	Soiled Utility Room	5055B	3'- 6"			7'-0"	F	WD	STN	-	1	HM	PNT	45 MIN	CA-05A	AC	
5056	J.C.	5056	3'- 0"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-04		
5057	Corridor	5057	3'- 8"	3'- 8"	7'- 4"	7'-0"	NN	WD	STN	C8	2	HM	PNT	20 MIN	CA-14	AC, WP	
5060	Electrical Room	5060A	4'- 0"			7'-0"	F	HM	PNT	-	1	HM	PNT	45 MIN	HW-04		
5060	Electrical Room	5060B	4'- 0"			7'-0"	F	HM	PNT	-	1	HM	PNT	45 MIN	HW-04		
5061	Corridor	5061A	3'- 8"	3'- 8"	7'- 4"	7'-0"	NN	WD	STN	S-1	2	HM	PNT		CA-14	AC	
5061	Corridor	5061B	3'- 4"			7'-0"	FG	ALUM	ANOD	S-1	-	ALUM	ANOD		HW-33		DOOR PROVIDED IN BID PACK 2
5062	Stair	5062	3'- 8"			7'-0"	F	WD	STN	-	1	HM	PNT	90 MIN	CA-04	AC, WP	DOOR PROVIDED IN BID PACK 2
5063	Ramp	5063	3'- 0"			7'-0"	FG	ALUM	ANOD	S-1	-	ALUM	ANOD		HW-33/ CA-16 ALT. 4	AC, WP ALT. 4	
5064	Wheel Chair Shower	5064	3'- 6"			7'-0"	F	WD	STN	-	1	HM	PNT		HW-04		
5065	Multipurpose Room	5065A	3'- 0"			7'-0"	G	WD	STN	S-1	1	HM	PNT		CA-05A	AC	
5065	Multipurpose Room	5065B	3'- 0"			7'-0"	G	WD	STN	S-1	1	HM	PNT		CA-05A	AC	
5066	Food Servery / Prep.	5066A	3'- 0"			7'-0"	G	WD	STN	S-1	1	HM	PNT		CA-05A	AC	
5066	Food Servery / Prep.	5066B	3'- 0"			7'-0"	G	WD	STN	S-1	1	HM	PNT		CA-05A	AC	
5067	Laundry	5067	3'- 0"			7'-0"	G	WD	STN	S-1	1	HM	PNT		CA-03	AC	
5068	Passage	5068	3'- 0"			7'-0"	N	WD	STN	S-1	1	HM	PNT		CA-05A	AC	
5069	Office- Shared	5069	3'- 0"			7'-0"	N	WD	STN	S-1	1	HM	PNT		HW-07		
5070	Office- Private	5070	3'- 0"			7'-0"	N	WD	STN	S-1	1	HM	PNT		HW-01		
5071	Office- Private	5071	3'- 0"			7'-0"	N	WD	STN	S-1	1	HM	PNT		HW-01		
5072	Corridor	5072A	3'- 8"	3'- 8"	7'- 4"	7'-0"	NN	WD	STN	C8	2	HM	PNT	20 MIN	CA-14	AC, WP	
5072	Corridor	5072B	3'- 8"	3'- 8"	7'- 4"	7'-0"	NN										



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Sampson Construction

PROJECT FOR

Fremont Area Medical Center

Fremont Area Medical Center

MASTER PLAN IMPLEMENTATION PROJECT

450 EAST 23rd STREET
FREMONT, NE

BID PACKAGE #3

MARK	DATE	DESCRIPTION
2	12-06-13	BP3-ADDENDUM #2
1	11-26-13	BP3-ADDENDUM #1

PROJECT NUMBER	00000000197729
ORIGINAL ISSUE	11/05/13 -
PROJECT MANAGER	Mike Goertzen
PROJECT DESIGNER	Brian Zabloudil
PROJECT ARCHITECT	Jeff Bahr
LANDSCAPE ARCHITECT	Brad Swerzek
CIVIL ENGINEER	-
STRUCTURAL ENGINEER	Doug Sholl
MECHANICAL ENGINEER	Todd Kubicek
ELECTRICAL ENGINEER	Kris Burnham
INTERIOR DESIGNER	Jill McFee
EQUIPMENT PLANNER	Greg Olsen
DRAWN BY	Author

Michael L. Goertzen

DOOR AND FRAME TYPES

SCALE: As indicated

A-610

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PROJECT FOR



Fremont Area
Medical Center

MASTER PLAN IMPLEMENTATION PROJECT

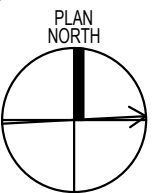
450 EAST 23rd STREET
FREMONT, NE

BID PACKAGE #3

3	2013-12-05	Addendum #2		
1	2013-11-27	Addendum #1		
	2013-09-08	Pharmacy - ESI.pdf		
MARK	DATE	DESCRIPTION		
PROJECT NUMBER		06000000019729		
ORIGINAL ISSUE		11/05/2013		
PROJECT MANAGER		Mike Goertzen		
PROJECT DESIGNER		Brian Ziboudil		
PROJECT ARCHITECT		Jeff Bahr		
LANDSCAPE ARCHITECT		Dan Swieczek		
CIVIL ENGINEER				
STRUCTURAL ENGINEER		Doug Sholl		
MECHANICAL ENGINEER		Todd Kubicek		
ELECTRICAL ENGINEER		Kris Burnham		
INTERIOR DESIGNER		Jill McFee		
EQUIPMENT PLANNER		Greg Olsen		
DRAWN BY		Jeff Holve		



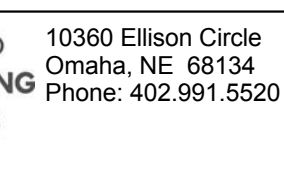
KEY PLAN



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SES PROJECT # 12140

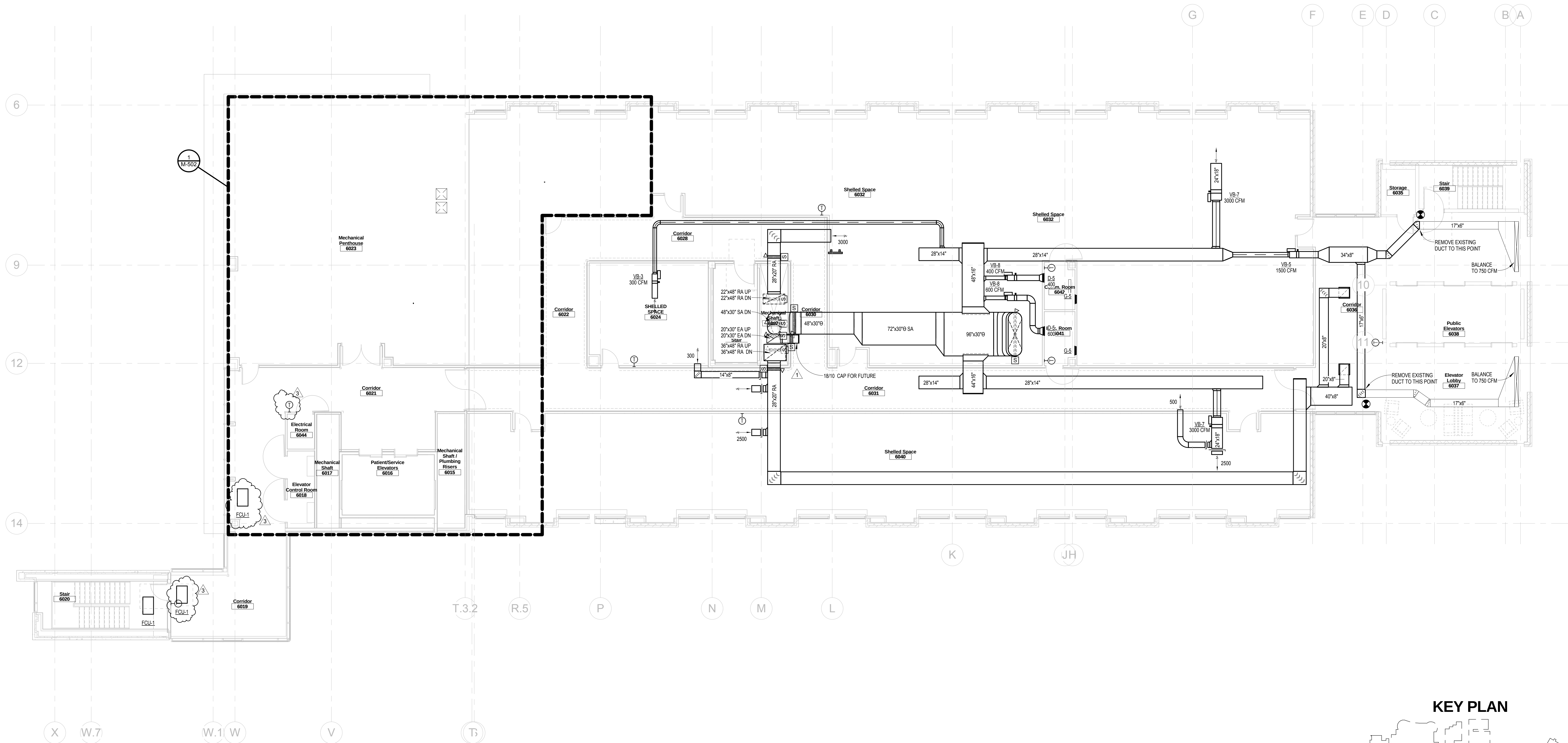
SCALE	$1/8" = 1'-0"$
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M-106

CONSTRUCTION DOCUMENTS

GENERAL NOTES

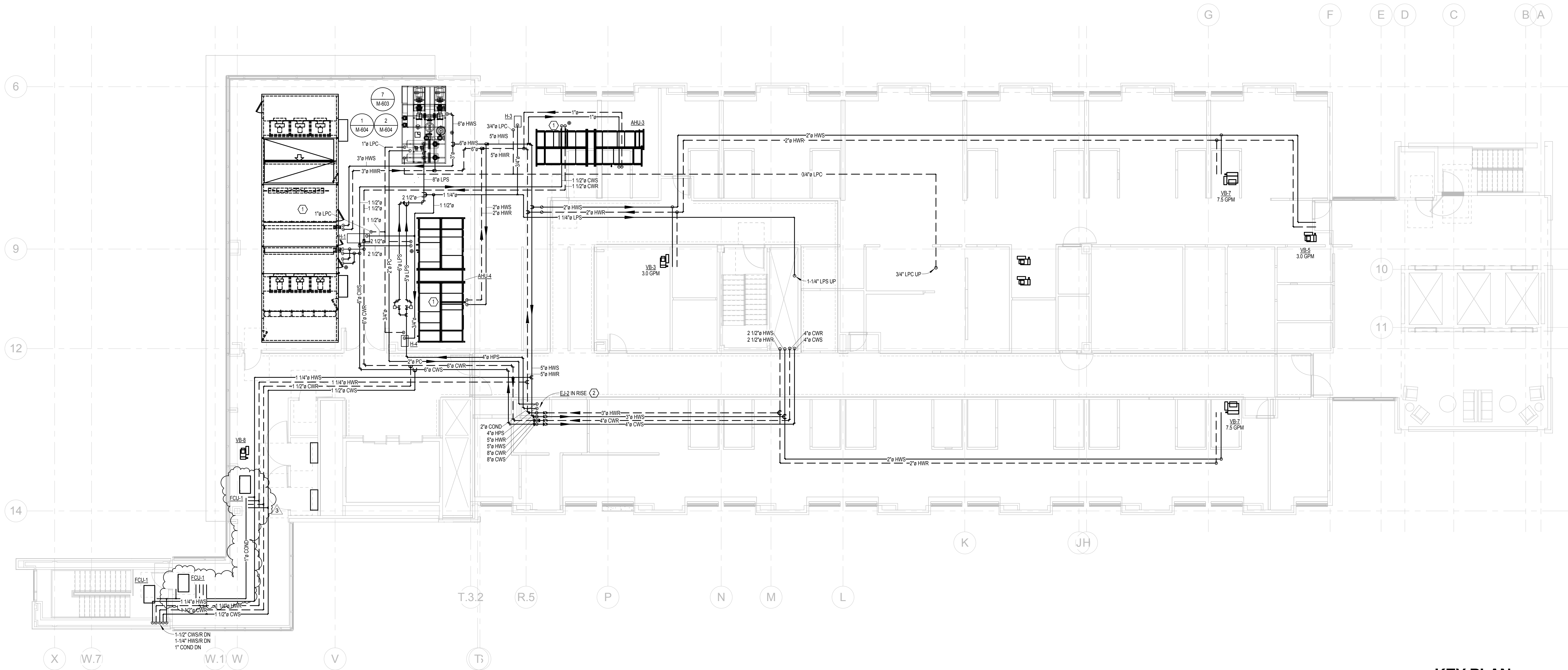
- A. ITEMS SHOWN IN DARK ARE NEW. ITEMS SHOWN IN HALF TONE ARE EXISTING TO REMAIN.
- B. EXISTING WORKMAN WAS OBTAINED USING EXISTING DOCUMENTS AND FIELD OBSERVATION. NOT ALL EQUIPMENT AND DISTRIBUTION SYSTEMS MAY BE SHOWN. CONTRACTOR TO VERIFY ALL SYSTEMS AND EQUIPMENT ARE IN PLACE AND OPERATING BETWEEN EXISTING CONDITIONS AND NEW WORK IS FOUND. CONTRACTOR TO NOTIFY ENGINEER.
- C. CONTRACTOR SHALL PERFORM SYSTEM SHUT DOWNS AND TIE INS IF NECESSARY IN OTHER AREAS OF THE BUILDING AS OUP HOURLS WORK.
- D. MECHANICAL CONTRACTOR SHALL REPLACE ALL FILTERS ON AHU SERVING AREA AT CLOSE OF CONSTRUCTION.
- E. REPAIR INSULATION ON DUCTWORK AS NEEDED.
- F. PROVIDE MANUAL BALANCE DAMPERS AT ALL FINAL DUCT TAKEOFFS TO DISPERSE AIR REGION ALL THE WAY TO THE END OF THE AIR ACCESSIBLE LOCATION WITHIN 10' OF TAKEOFF FROM MAIN. BALANCE DAMPERS NOT SHOWN ON DRAWINGS.
- G. ROOMS LABELED AS CONTAINING CEILING LISTS OPERATING ROOMS, LABS AND CLINIC ROOMS. CONTRACTOR TO VERIFY LOCATION OF STRUCTURE ABOVE CEILING. COORDINATE DUCT ROUTING WITH REINFORCEMENT AND ALL OTHER TRADES.
- H. SEE SHEET 1-101A FOR FINAL DUCT RUNOUT SIZING SCHEDULE TO DIFFERS, REGRINDERS AND EXHAUSTS.
- I. SPACE ABOVE CEILING IS LIMITED WITH LOW CEILING TO FLOOR ABOVE HEIGHTS. COORDINATE ROUTING WITH STRUCTURE AND ALL OTHER TRADES. CONTRACTOR TO VERIFY LOCATION OF STRUCTURE ABOVE CEILING. COORDINATE DUCT ROUTING WITH REINFORCEMENT AND ALL OTHER TRADES. SEISMIC BRACING AND DESIGN REQUIREMENTS. REFERENCE SPECIFICATIONS FOR COORDINATION DRAWING REQUIREMENTS. DO NOT REMOVE OR ABANDON ANY EXISTING STRUCTURE. COORDINATION DRAWINGS HAVE BEEN COMPLETED BETWEEN ALL TRADES.



1 SIXTH FLOOR PLAN - HVAC

$1/8" = 1'-0"$

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1 SIXTH FLOOR PLAN - PIPING
1/8" = 1'-0"

- GENERAL NOTES**
- A. EXISTING WORK SHOWN WAS OBTAINED USING EXISTING DOCUMENTS AND FIELD OBSERVATION. NOT ALL EQUIPMENT AND DISTRIBUTION SYSTEMS MAY BE SHOWN. CONTRACTOR TO VERIFY ALL SYSTEMS PRIOR TO COMMENCING WORK. IF DEVIATION BETWEEN EXISTING CONDITIONS AND NEW WORK IS FOUND, CONTRACTOR TO NOTIFY ENGINEER.
- B. CONTRACTOR SHALL PERFORM SYSTEM SHUT DOWNS AND TIE-INS EFFECTING OTHER AREAS OF THE BUILDING AS OFF-HOURS WORK.
- C. ITEMS IN DARK ARE NEW, ITEMS SHOWN IN HALF-TONE ARE EXISTING TO REMAIN.
- D. PIPING BRANCHES TO INDIVIDUAL VOLUME BOXES TO BE 3/4" UNLESS OTHERWISE NOTED.
- E. REFER TO HVAC PLAN FOR VOLUME BOX INFORMATION.
- F. REPAIR INSULATION ON PIPING AS NEEDED.
- G. PROVIDE ISOLATION VALVES AT ALL FINAL BRANCH PIPING TAKEOFFS FROM MAINS. ISOLATION VALVES NOT SHOWN ON DRAWINGS, PROVIDE IN AN ACCESSIBLE LOCATION WITHIN 18" FROM MAIN.
- H. SPACE ABOVE CEILING IS LIMITED WITH LOW CEILING TO FLOOR ABOVE HEIGHTS. COORDINATE ROUTING WITH STRUCTURE AND ALL OTHER TRADES. REFERENCE SPECIFICATIONS FOR ADDITIONAL SEISMIC BRACING AND DESIGN REQUIREMENTS. REFERENCE SPECIFICATIONS FOR COORDINATION DRAWING REQUIREMENTS. DO NOT ORDER OR PRE-FABRICATE MATERIALS UNTIL COORDINATION DRAWINGS HAVE BEEN COMPLETED BETWEEN ALL TRADES.
- I. ALL PIPING IN CHASES IS TO BE WELDED.
- J. PROVIDE 3-WAY VALVES AT ALL FINAL VOLUME BOXES OR RADIANT PANELS OF EACH MAIN.
- K. RADIANT PANELS ARE TO BE PIPED AND CONTROLLED INDIVIDUALLY AT EACH PANEL.

- SHEET NOTES**
1. INSTALL PRESSURE-INDEPENDENT CONTROL VALVE ON CHILLED WATER SUPPLY TO AIR HANDLING UNIT CHILLED WATER COIL. REFER TO SPECIFICATION SECTION 23 09 93.
2. INSTALL ANCHORS AND GUIDES TO 4 INCH HPS MAIN ACCORDING TO EXPANSION JOINT MANUFACTURER'S RECOMMENDATIONS.

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PROJECT FOR

FAMC
Fremont Area Medical Center

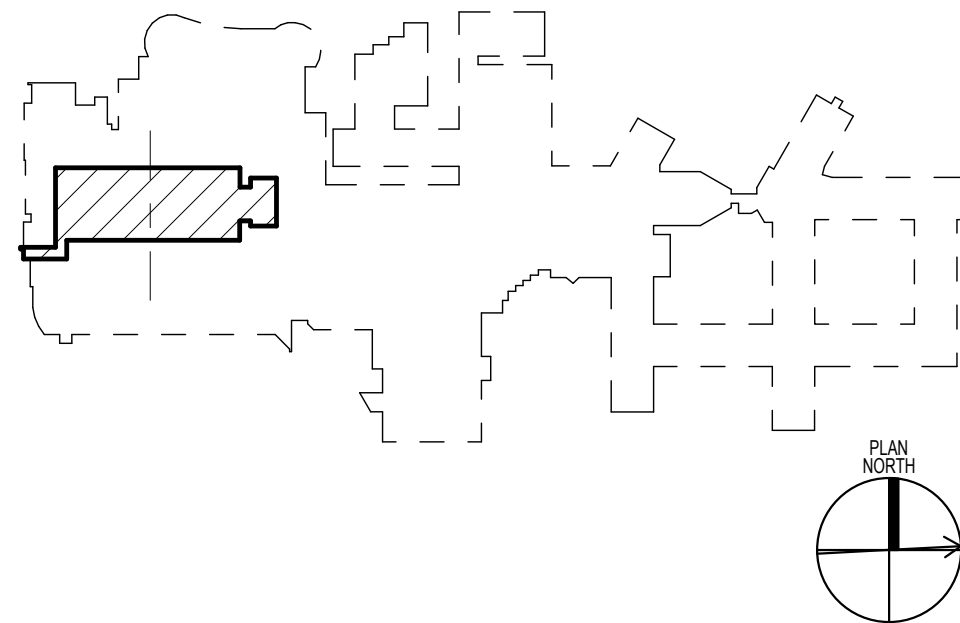
Fremont Area
Medical Center

**MASTER PLAN
IMPLEMENTATION
PROJECT**
450 EAST 23rd STREET
FREMONT, NE

BID PACKAGE #3

MARK	DATE	DESCRIPTION
3	2013.12.05	Addendum #2
PROJECT NUMBER 00000000197729		
ORIGINAL ISSUE 11/05/2013		
PROJECT MANAGER Mike Goertzen		
PROJECT DESIGNER Brian Zabloudil		
PROJECT ARCHITECT Jeff Bahr		
LANDSCAPE ARCHITECT Brad Swenczek		
CIVIL ENGINEER		
STRUCTURAL ENGINEER Doug Sholl		
MECHANICAL ENGINEER Todd Kubick		
ELECTRICAL ENGINEER Kris Burnham		
INTERIOR DESIGNER Jill McFee		
EQUIPMENT PLANNER Greg Olsen		
DRAWN BY Jeff Holte		

KEY PLAN



**SIXTH FLOOR PLAN -
PIPING**

SCALE 1/8" = 1'-0"

M-206

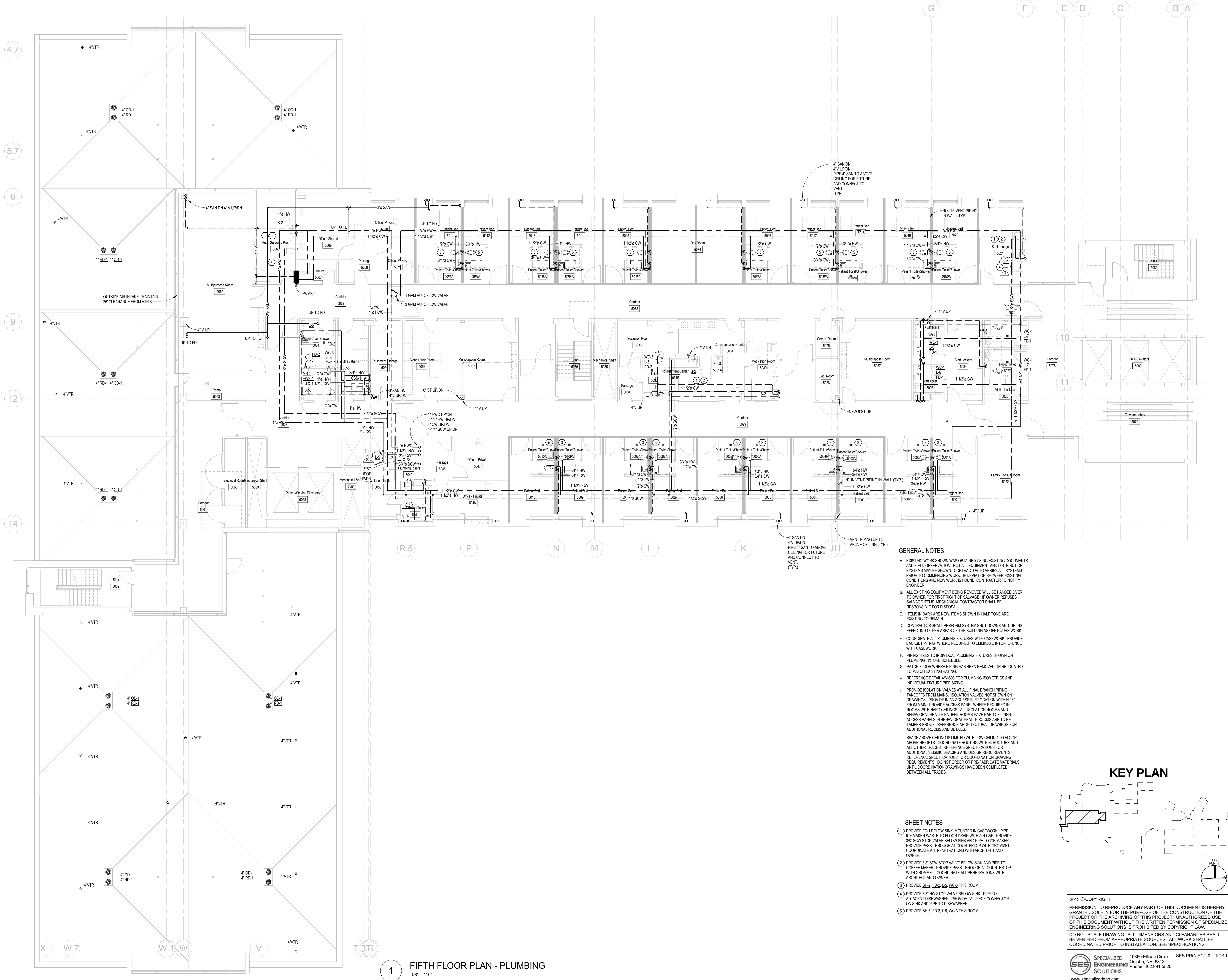
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SES PROJECT # 12140

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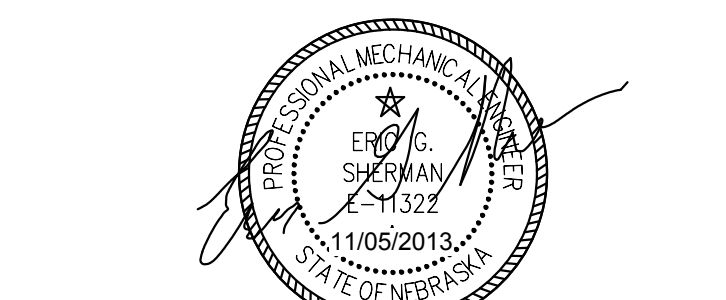
PROJECT FOR

FAMC
Fremont Area Medical Center

Fremont Area
Medical Center
**MASTER PLAN
IMPLEMENTATION
PROJECT**
450 EAST 23rd STREET
FREMONT, NE

BID PACKAGE #3

MARK	DATE	DESCRIPTION
3	2013-12-05	Addendum #2
1	2013-11-27	Addendum #1
PROJECT NUMBER 00000000197729		
ORIGINAL ISSUE		11/05/2013
PROJECT MANAGER		Mike Goetzten
PROJECT DESIGNER		Brian Zahradski
PROJECT ARCHITECT		Jeff Bahr
LANDSCAPE ARCHITECT		Brad Swerczek
CIVIL ENGINEER		
STRUCTURAL ENGINEER		Doug Sholl
MECHANICAL ENGINEER		Todd Kuback
ELECTRICAL ENGINEER		Kris Burnham
INTERIOR DESIGNER		Jill McFee
EQUIPMENT PLANNER		Greg Olsen
DRAWN BY		Jeff Holte



**FIFTH FLOOR PLAN -
PLUMBING**

SCALE 1/8" = 1'-0"

M-305

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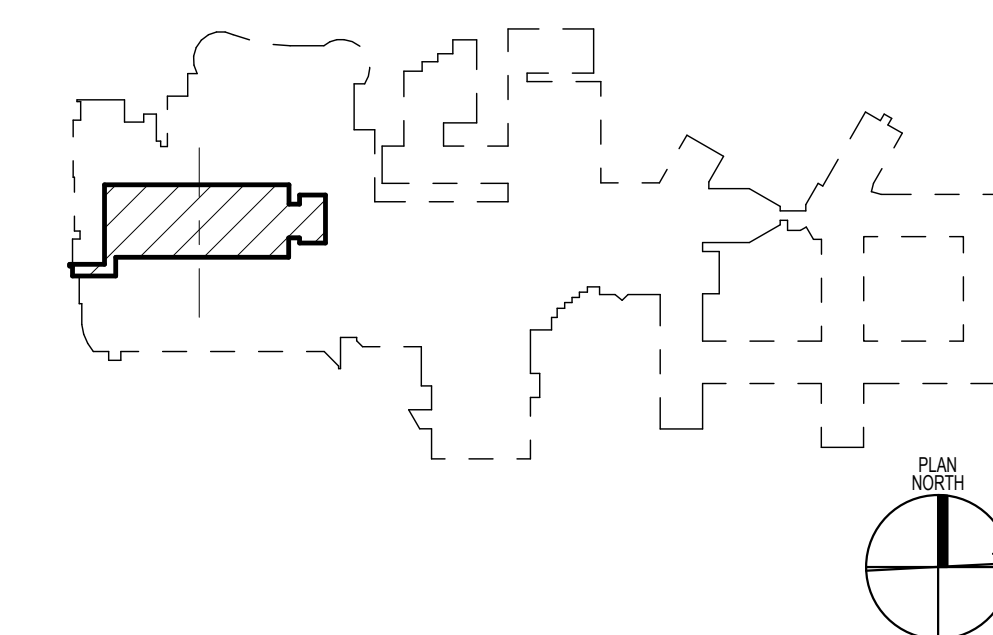
GENERAL NOTES

- EXISTING WORK SHOWN WAS OBTAINED USING EXISTING DOCUMENTS AND FIELD OBSERVATION. NOT ALL EQUIPMENT AND DISTRIBUTION SYSTEMS MAY BE SHOWN. CONTRACTOR TO VERIFY ALL SYSTEMS PRIOR TO COMMENCING WORK. IF DISCREPANCY BETWEEN EXISTING CONDITIONS AND NEW WORK IS FOUND, CONTRACTOR TO NOTIFY ENGINEER.
- ALL EXISTING EQUIPMENT BEING REMOVED WILL BE HANDLED OVER TO OWNER FOR FIRST RIGHT OF SALVAGE. IF OWNER REFUSES SALVAGE ITEMS, MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR DISPOSAL.
- ITEMS IN DARK ARE NEW, ITEMS SHOWN IN HALF TONE ARE EXISTING TO REMAIN.
- CONTRACTOR SHALL PERFORM SYSTEM SHUT DOWNS AND TIE-INS EFFECTING OTHER AREAS OF THE BUILDING AS OFF-HOURS WORK.
- COORDINATE ALL PLUMBING FIXTURES WITH CASEWORK. PROVIDE BACKSET P-TRAP WHERE REQUIRED TO ELIMINATE INTERFERENCE WITH CASEWORK.
- PIPE SIZES TO INDIVIDUAL PLUMBING FIXTURES SHOWN ON PLUMBING FIXTURE SCHEDULE.
- PATCH FLOOR WHERE PIPING HAS BEEN REMOVED OR RELOCATED TO MATCH EXISTING RATING.
- REFERENCE DETAIL 414-603 FOR PLUMBING ISOMETRICS AND INDIVIDUAL FIXTURE PIPE SIZING.
- PROVIDE ISOLATION VALVES AT ALL FINAL BRANCH PIPING TAKEOFFS FROM MAINS. ISOLATION VALVES NOT SHOWN ON DRAWINGS. PROVIDE IN AN ACCESSIBLE LOCATION WITHIN 18" FROM MAIN. PROVIDE ACCESS PANEL WHERE REQUIRED IN ROOMS WITH HARD CEILINGS. ALL ISOLATION ROOMS AND BEHAVIORAL HEALTH PATIENT ROOMS HAVE HARD CEILINGS. ACCESS PANELS IN BEHAVIORAL HEALTH ROOMS ARE TO BE TAMPER-PROOF. REFERENCE ARCHITECTURAL DRAWINGS FOR ADDITIONAL ROOMS AND DETAILS.
- SPACE ABOVE CEILING IS LIMITED WITH LOW CEILING TO FLOOR ABOVE HEIGHTS. COORDINATE ROUTING WITH STRUCTURE AND ALL OTHER TRADES. REFERENCE SPECIFICATIONS FOR ADDITIONAL SEISMIC BRACING AND DESIGN REQUIREMENTS. REFERENCE SPECIFICATIONS FOR COORDINATION DRAWING REQUIREMENTS. DO NOT ORDER OR PRE-FABRICATE MATERIALS UNTIL COORDINATION DRAWINGS HAVE BEEN COMPLETED BETWEEN ALL TRADES.

SHEET NOTES

- PROVIDE FD-1 BELOW SINK MOUNTED IN CASEWORK. PIPE ICE MAKER WASTE TO FLOOR DRAIN WITH AIR GAP. PROVIDE 3/8" SOW STOP VALVE BELOW SINK AND PIPE TO ICE MAKER. PROVIDE PASS-THROUGH AT COUNTERTOP WITH GROMMET. COORDINATE ALL PENETRATIONS WITH ARCHITECT AND OWNER.
- PROVIDE 3/8" SOW STOP VALVE BELOW SINK AND PIPE TO COFFEE MAKER. PROVIDE PASS-THROUGH AT COUNTERTOP WITH GROMMET. COORDINATE ALL PENETRATIONS WITH ARCHITECT AND OWNER.
- PROVIDE SH-2, FD-2, L-5, WC-3 THIS ROOM.
- PROVIDE 3/8" HW STOP VALVE BELOW SINK. PIPE TO ADJACENT DISHWASHER. PROVIDE TAILPIECE CONNECTOR ON SINK AND PIPE TO DISHWASHER.
- PROVIDE SH-3, FD-2, L-5, WC-3 THIS ROOM.

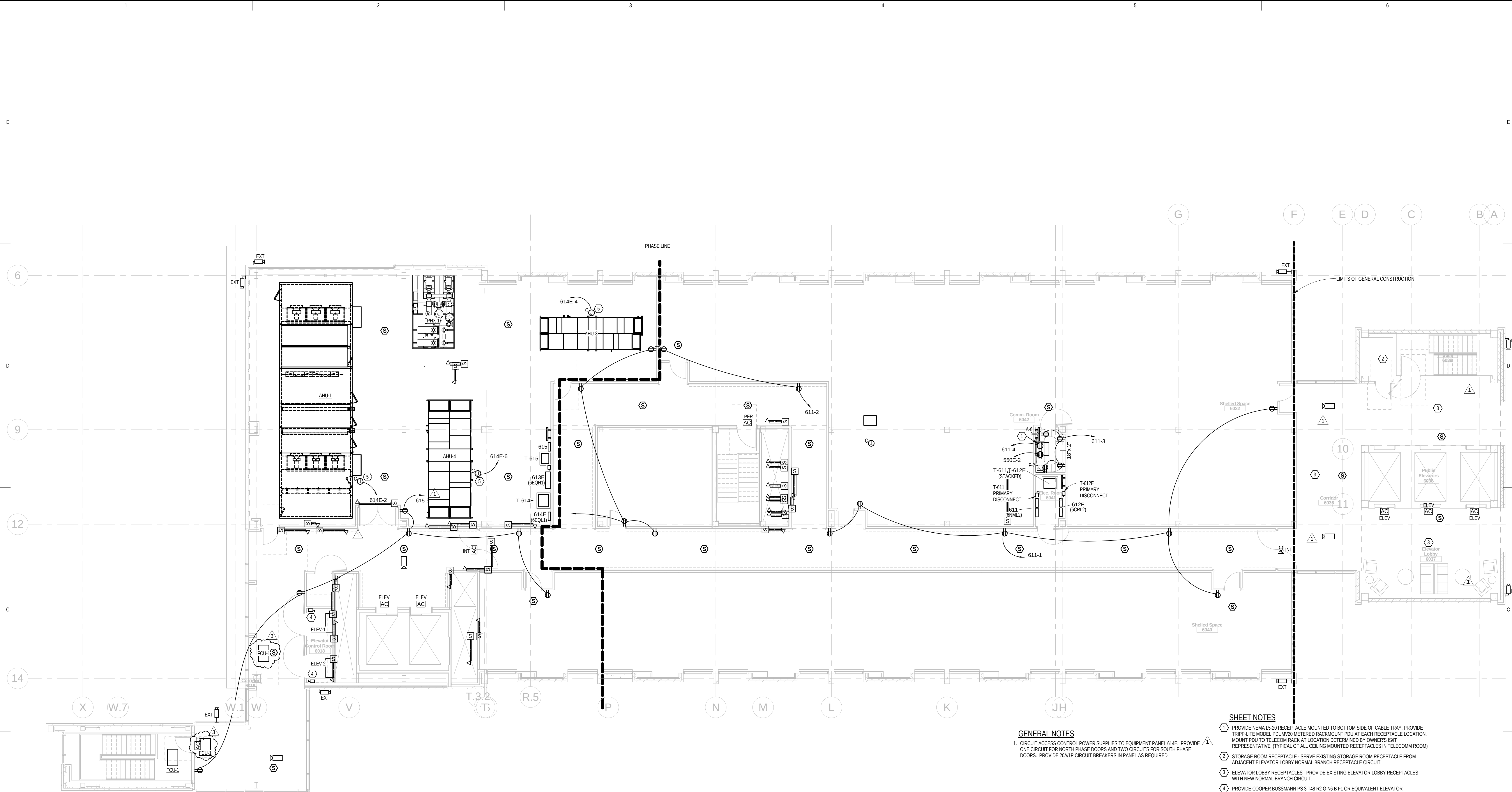
KEY PLAN



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SES PROJECT # 12140

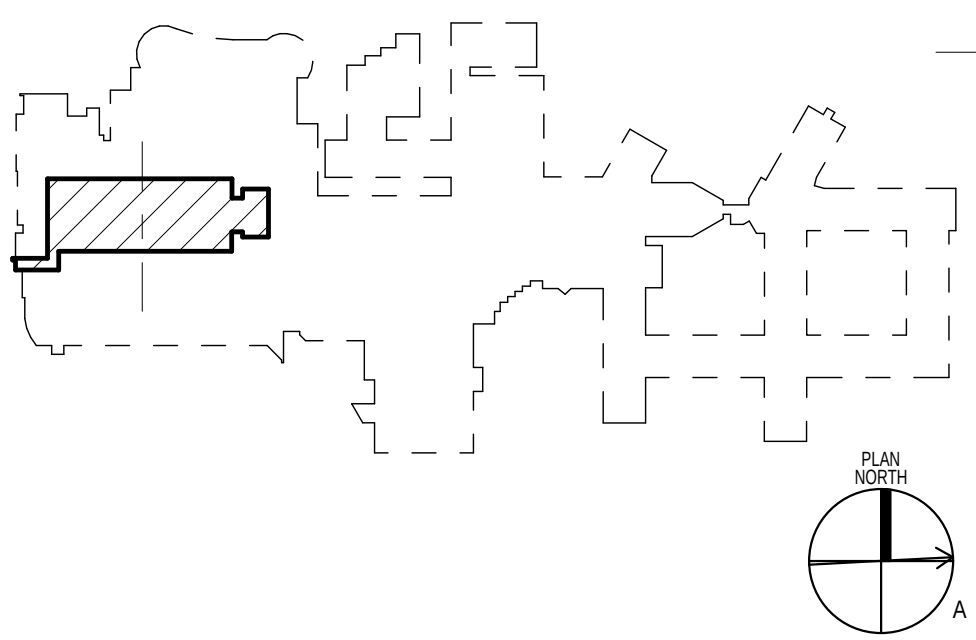


1 SIXTH FLOOR PLAN - POWER
1/8" = 1'-0"

- SHEET NOTES**
1. PROVIDE NEMA LS-20 RECEPTACLE MOUNTED TO BOTTOM SIDE OF CABLE TRAY. PROVIDE TRIPP-LITE MODEL, PDUW20 METERED RACKMOUNT PDU AT EACH RECEPTACLE LOCATION. MOUNT PDU TO TELECOM RACK AT LOCATION DETERMINED BY OWNER'S ISIT REPRESENTATIVE. (TYPICAL OF ALL CEILING MOUNTED RECEPTACLES IN TELECOMM ROOM)
 2. STORAGE ROOM RECEPTACLE - SERVE EXISTING STORAGE ROOM RECEPTACLE FROM ADJACENT ELEVATOR LOBBY NORMAL BRANCH RECEPTACLE CIRCUIT.
 3. ELEVATOR LOBBY RECEPTACLES - PROVIDE EXISTING ELEVATOR LOBBY RECEPTACLES WITH NEW NORMAL BRANCH CIRCUIT.
 4. PROVIDE COOPER BUSSMANN PS 3 T4B R2 G N6 B F1 OR EQUIVALENT ELEVATOR DISCONNECT SWITCH.
 5. PROVIDE POWER CONNECTION TO AIR HANDLING UNIT LIGHTS AND RECEPTACLES.

- GENERAL NOTES**
1. CIRCUIT ACCESS CONTROL. POWER SUPPLIES TO EQUIPMENT PANEL 614E. PROVIDE ONE CIRCUIT FOR NORTH PHASE DOORS AND TWO CIRCUITS FOR SOUTH PHASE DOORS. PROVIDE 20A/1P CIRCUIT BREAKERS IN PANEL AS REQUIRED.

KEY PLAN



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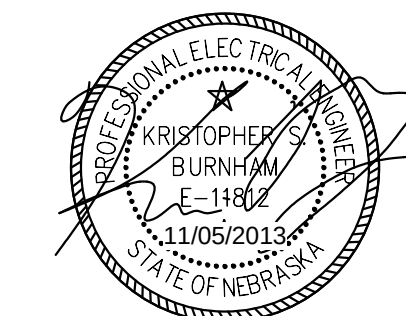
Sampson Construction

PROJECT FOR
FAMC
Fremont Area Medical Center

Fremont Area Medical Center
MASTER PLAN IMPLEMENTATION PROJECT
450 EAST 23rd STREET
FREMONT, NE

BID PACKAGE #3

CONSTRUCTION DOCUMENTS		
3	2013-12-05	Addendum #2
1	2013-11-27	Addendum #1
MARK	DATE	DESCRIPTION
PROJECT NUMBER 00000000197729		
ORIGINAL ISSUE 11/05/2013		
PROJECT MANAGER Mike Goertzen		
PROJECT DESIGNER Brian Zabloudil		
PROJECT ARCHITECT Jeff Bahr		
LANDSCAPE ARCHITECT Brad Swerczek		
CIVIL ENGINEER		
STRUCTURAL ENGINEER Doug Sholl		
MECHANICAL ENGINEER Todd Kubick		
ELECTRICAL ENGINEER Kris Burnham		
INTERIOR DESIGNER Jill McFee		
EQUIPMENT PLANNER Greg Olsen		
DRAWN BY Author		

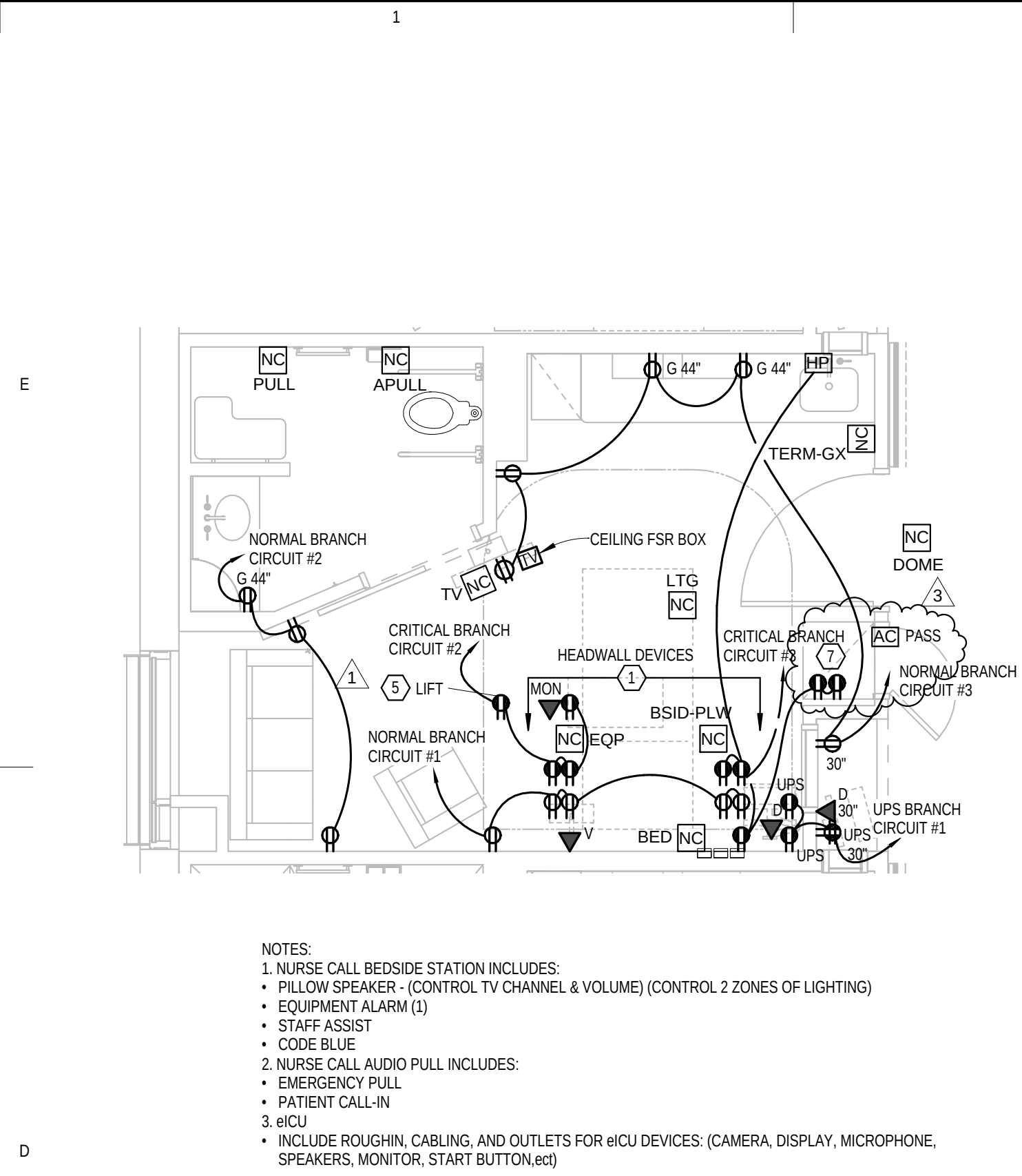


SIXTH FLOOR PLAN - POWER

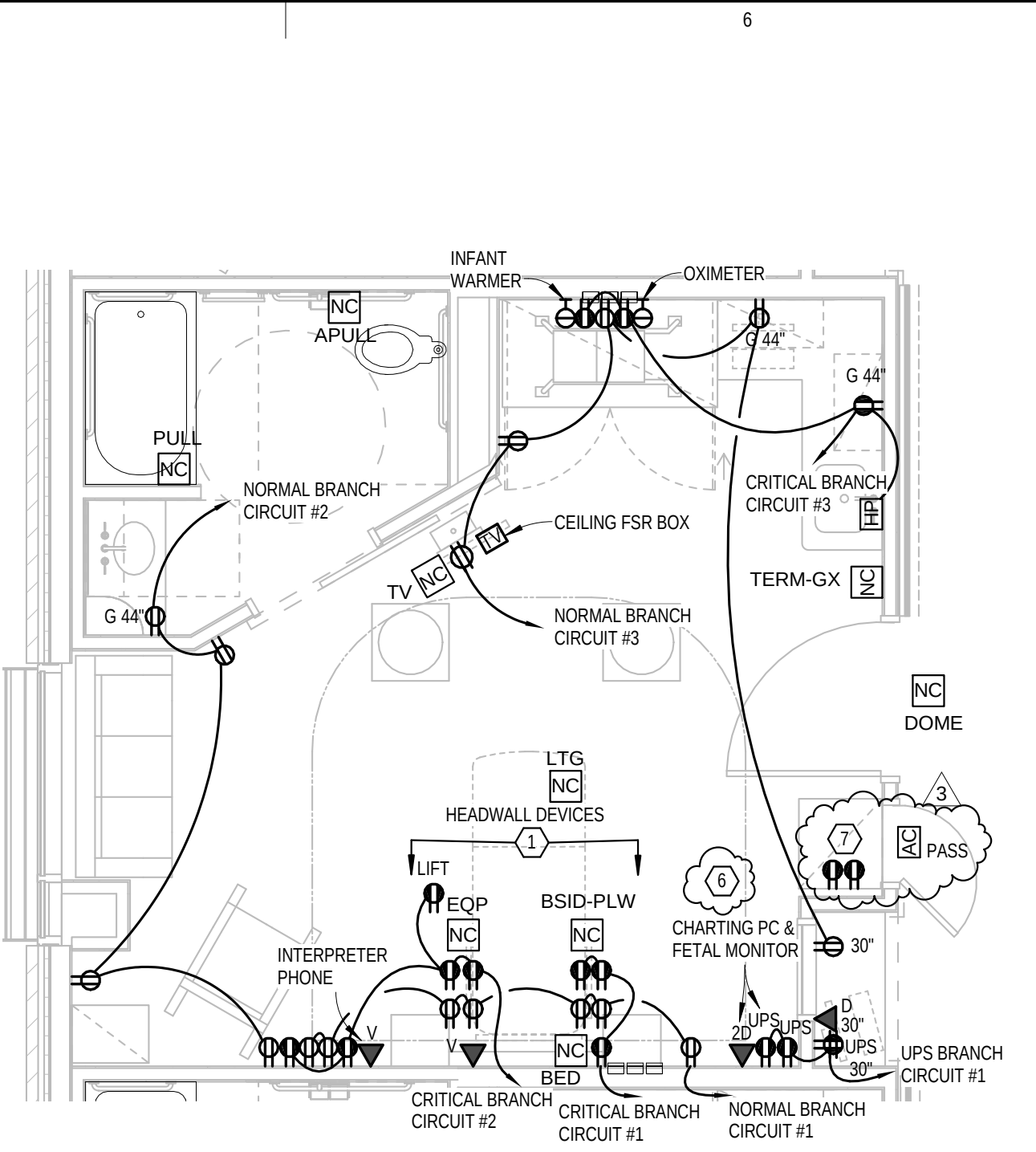
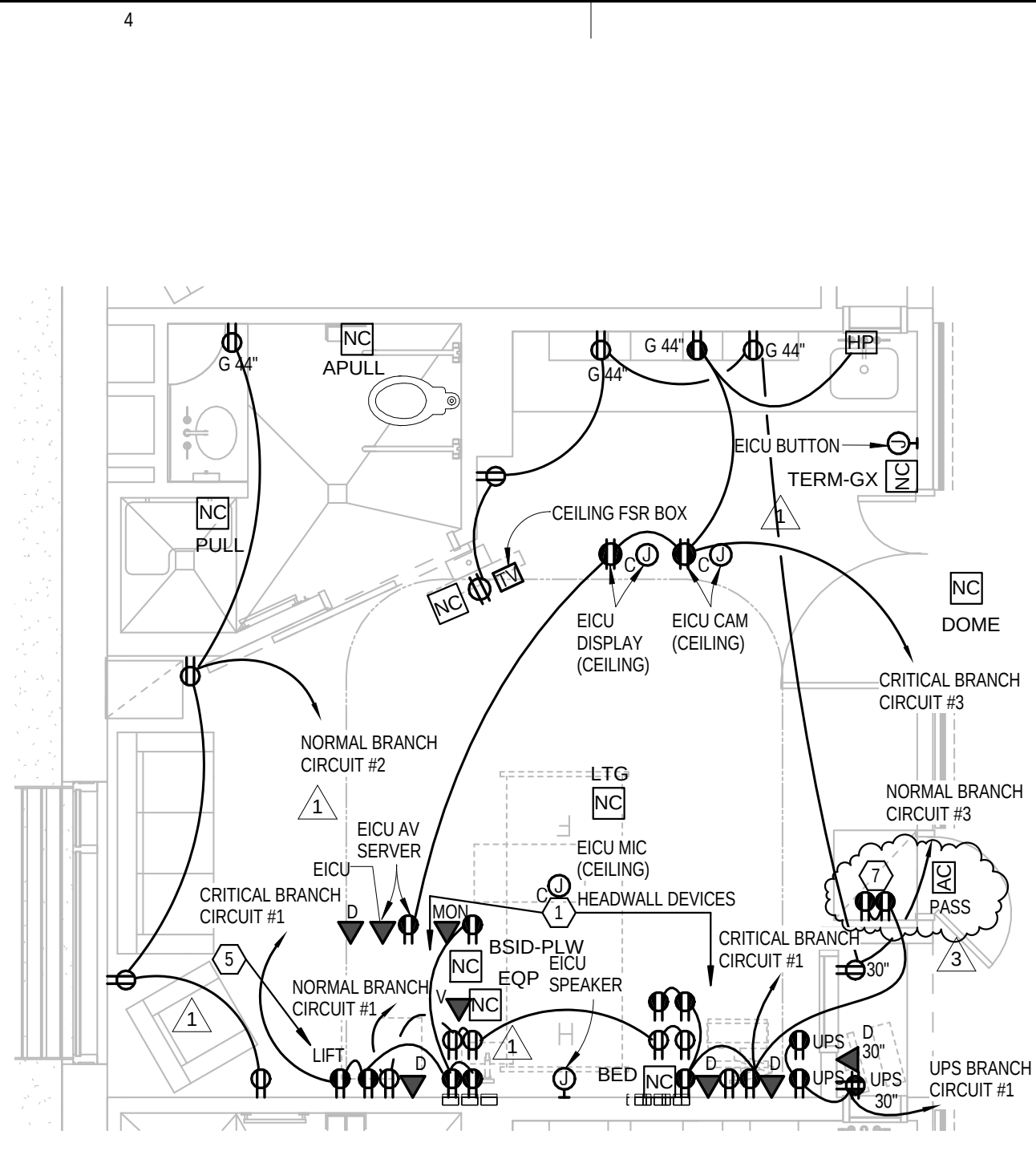
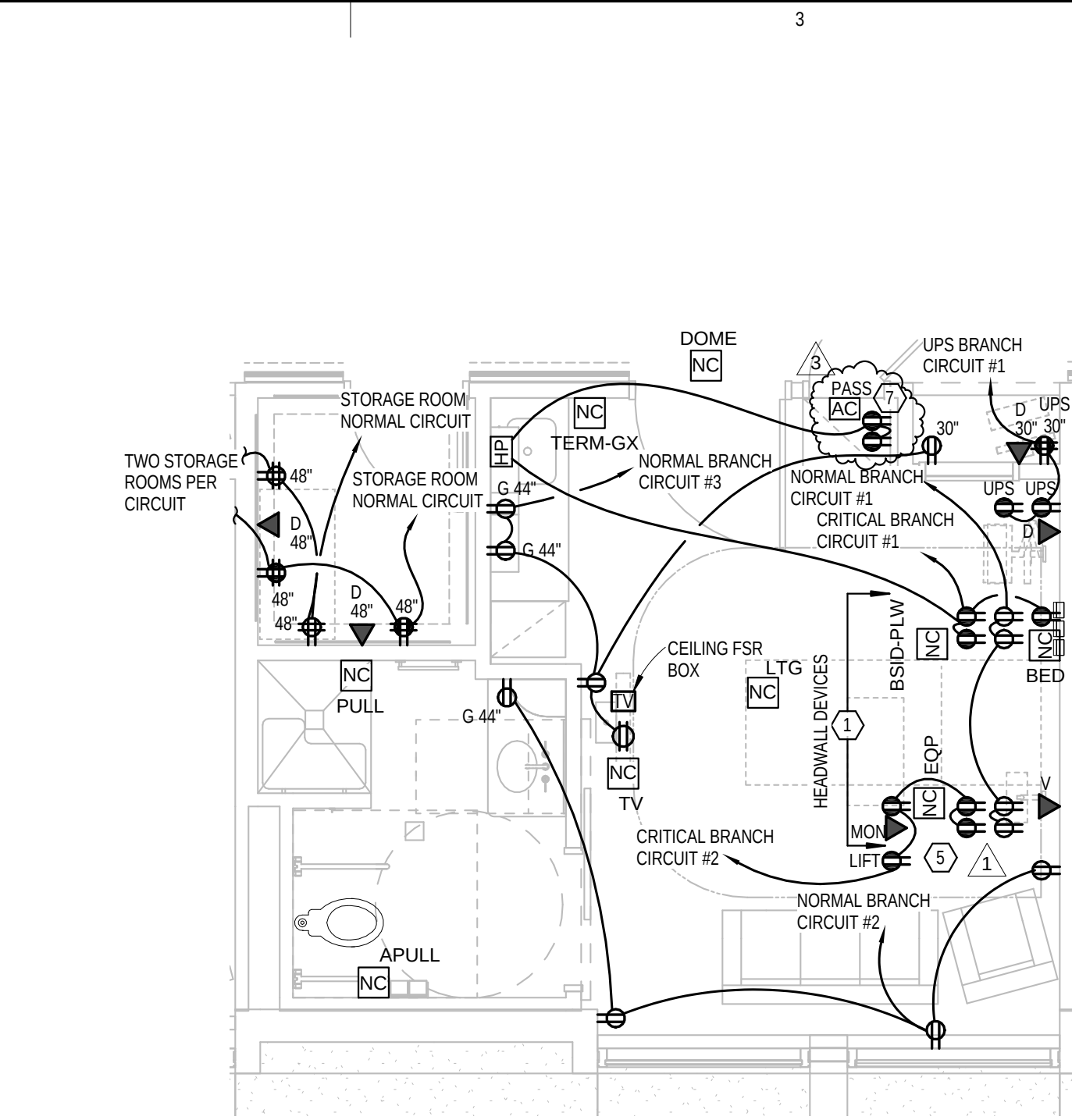
SCALE 1/8" = 1'-0"

E-206

CONSTRUCTION DOCUMENTS



- NOTES:
1. NURSE CALL BEDSIDE STATION INCLUDES:
 - PILLOW SPEAKER (CONTROL TV CHANNEL & VOLUME) (CONTROL 2 ZONES OF LIGHTING)
 - EQUIPMENT ALARM (1)
 - STAFF ASSIST
 - CODE BLUE
 2. NURSE CALL AUDIO PULL INCLUDES:
 - EMERGENCY PULL
 - PATIENT CALL-IN
 3. eICU
 - INCLUDE ROUGHIN, CABLING, AND OUTLETS FOR eICU DEVICES (CAMERA, DISPLAY, MICROPHONE, SPEAKERS, MONITOR, START BUTTONS)



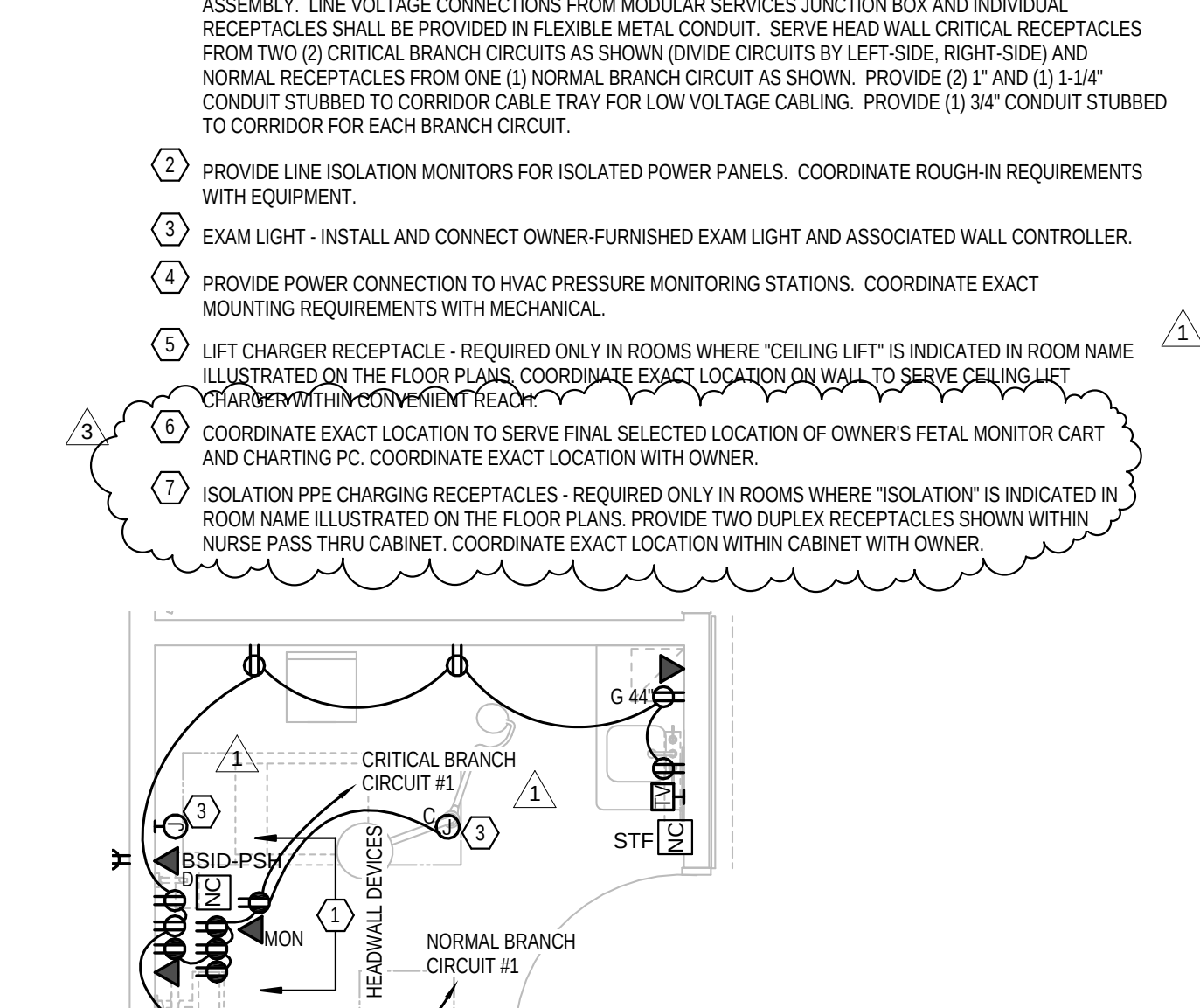
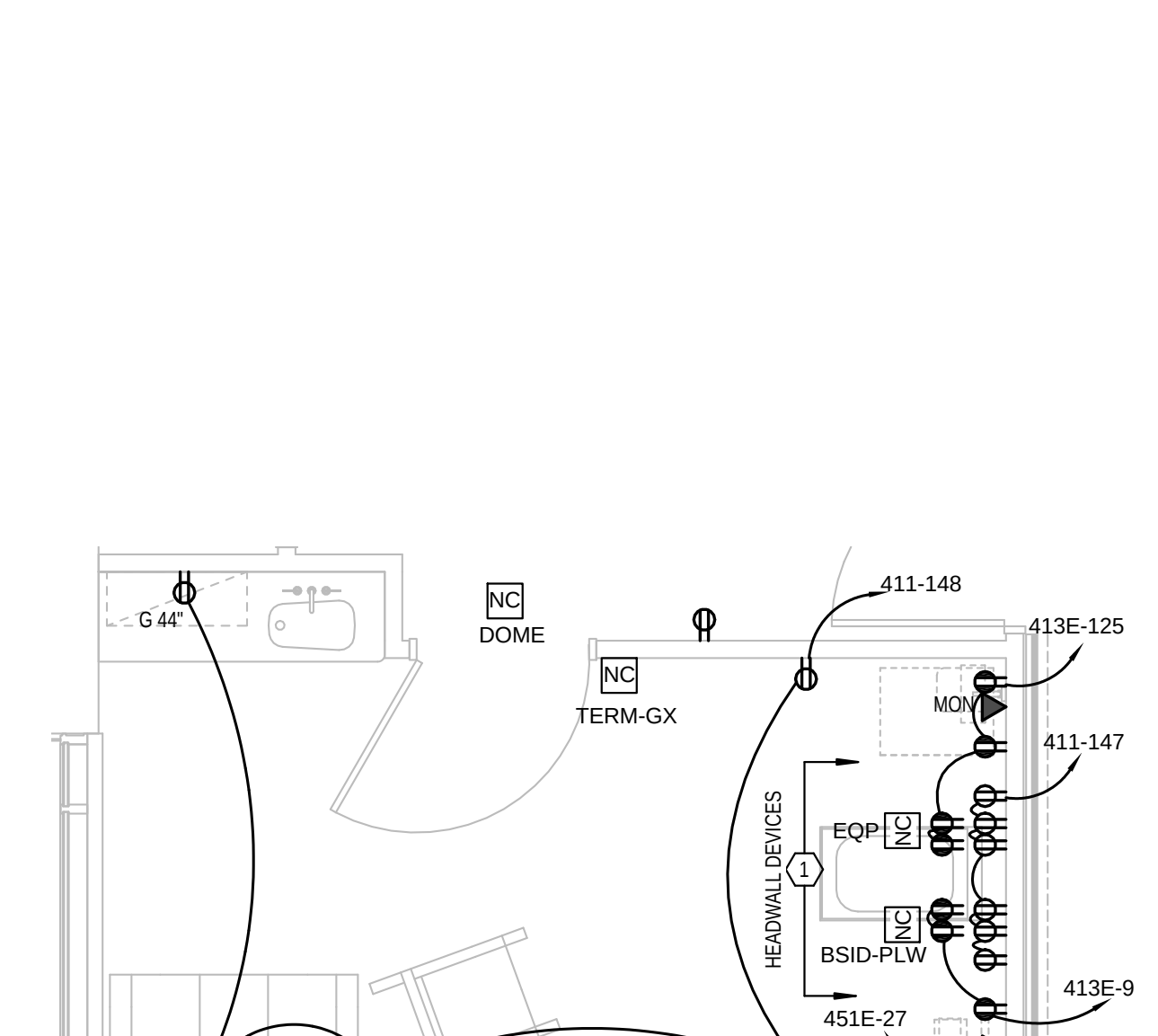
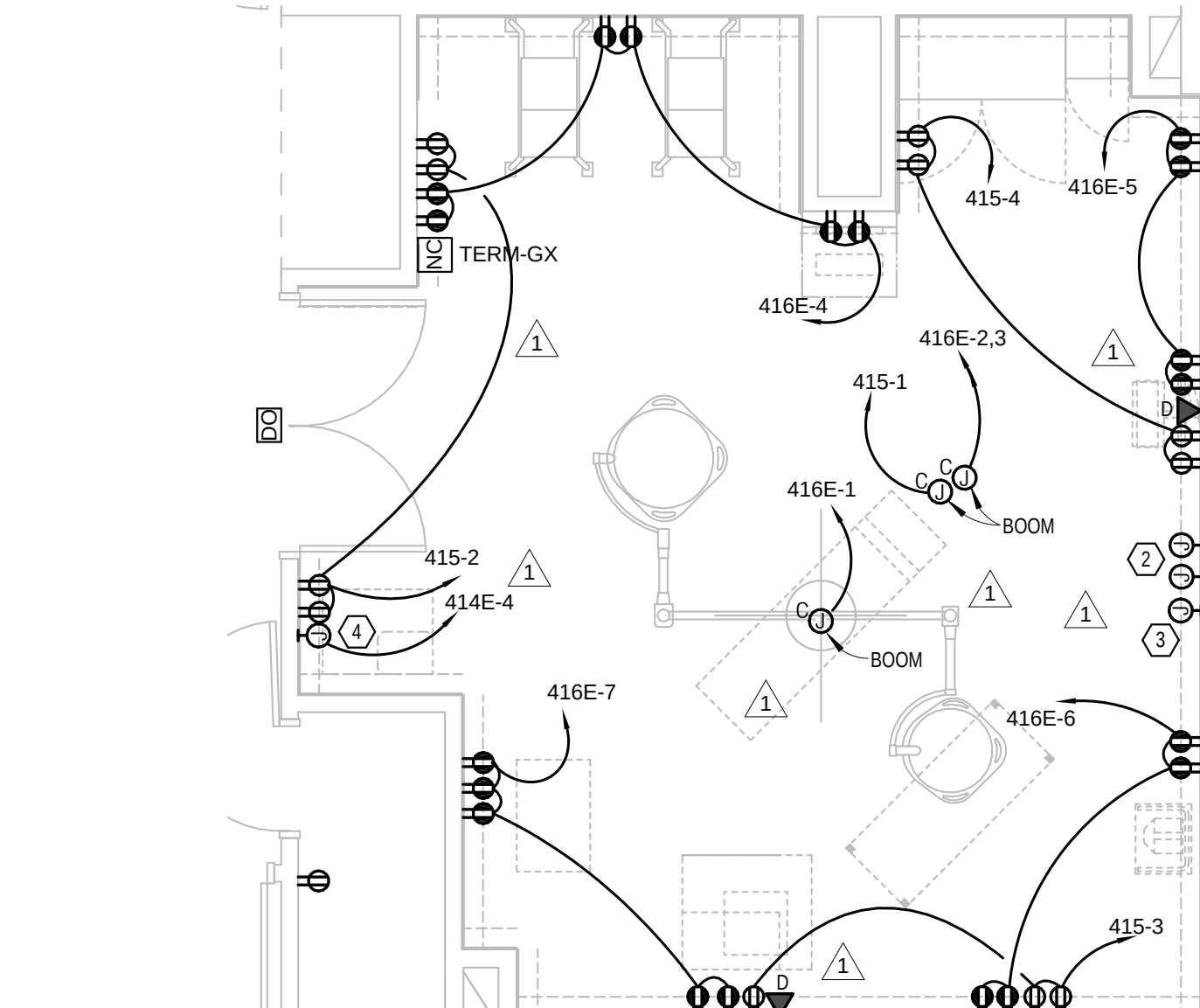
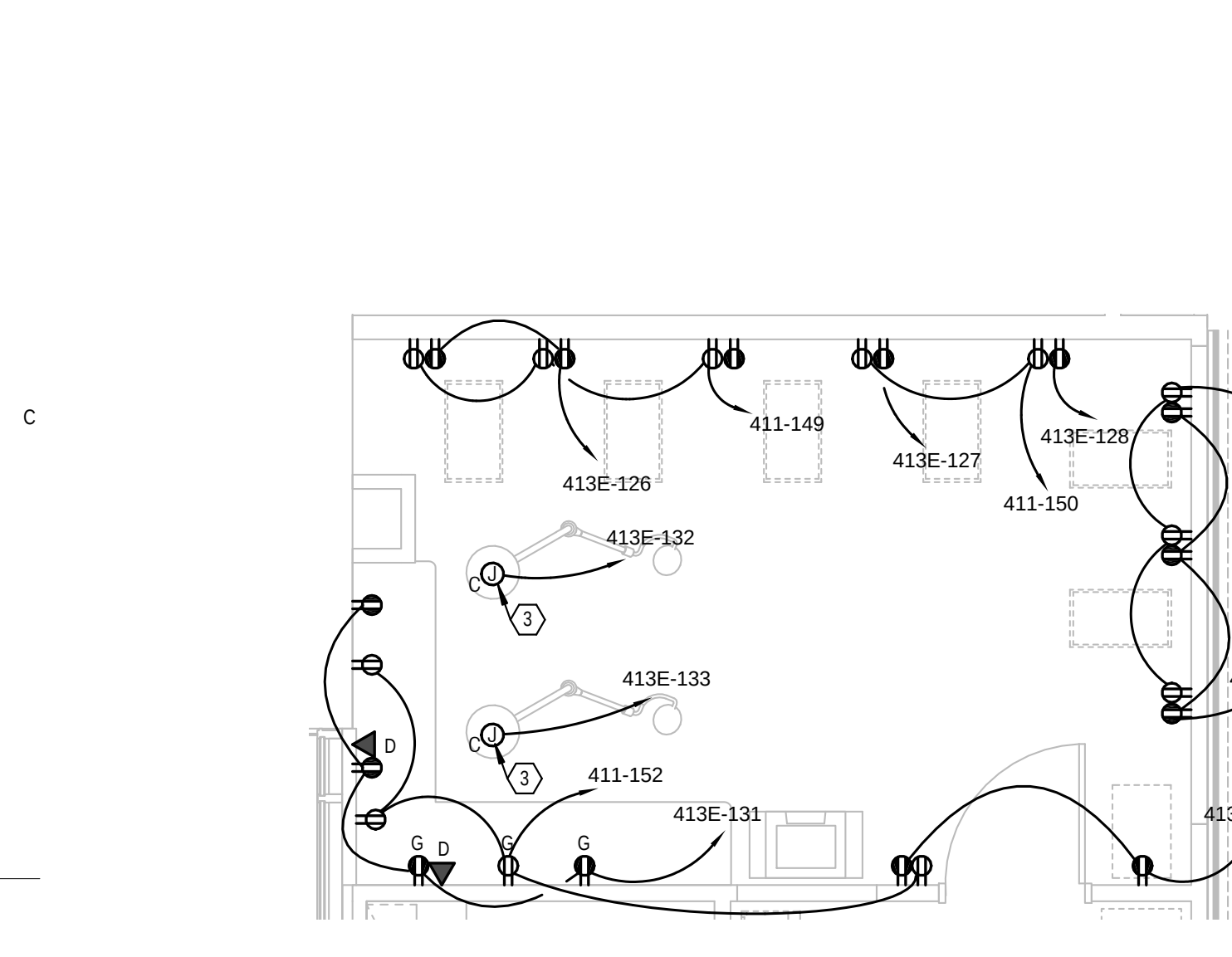
1 Enlarged Power Plan - Typical Medical / Telemetry Patient Room (New)
1/4" = 1'-0"

2 Enlarged Power Plan - Typical Medical / Telemetry Patient Room (Renovated)
1/4" = 1'-0"

3 Enlarged Power Plan - Typical ICU Patient Room
1/4" = 1'-0"

4 Enlarged Power Plan - Typical LDRP Patient Room
1/4" = 1'-0"
SHEET NOTES

1. HEADWALL DEVICES - DEVICES SHOWN AT HEADWALL SHALL BE MOUNTED IN HEADWALL SYSTEM FURNISHED BY MODULAR SERVICES COMPANY. MODULAR SERVICES WILL FURNISH ELECTRICAL DUPLEX AND SIMPLEX RECEPTACLES SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR BRANCH CIRCUIT CONNECTIONS/INTERCONNECTION TO THESE RECEPTACLES WITHIN THE HEADWALL SYSTEM AND ASSOCIATED BRANCH CIRCUIT HOMERUNS. NURSE CALL DEVICES WILL BE BY OTHERS. CONTRACTOR SHALL BE RESPONSIBLE FOR CONDUIT TO BOX LOCATIONS. ALL OTHER DEVICES SHALL BE PROVIDED IN THEIR ENTIRETY BY THE CONTRACTOR. MODULAR SERVICES WILL FURNISH MAIN ELECTRICAL JUNCTION BOX WITHIN THE HEADWALL FOR CRITICAL BRANCH, NORMAL BRANCH, AND LOW VOLTAGE TERMINATIONS/ROUTING. CONTRACTOR SHALL PROVIDE HOMERUN CONNECTIONS TO THIS BOX AND ASSOCIATED BRANCH DEVICES CONNECTIONS FROM THIS BOX TO THE INDIVIDUAL DEVICES. LOW VOLTAGE CABLES MAY BE ROUTED WITHOUT CONDUIT WITHIN THE HEADWALL ASSEMBLY. LINE VOLTAGE CONNECTIONS FROM MODULAR SERVICES JUNCTION BOX AND INDIVIDUAL RECEPTACLES SHALL BE PROVIDED IN FLEXIBLE METAL CONDUIT. SERVE HEAD WALL CRITICAL RECEPTACLES FROM TWO (2) CRITICAL BRANCH CIRCUITS AS SHOWN (DIVIDE CIRCUITS BY LEFT-SIDE, RIGHT-SIDE) AND NORMAL RECEPTACLES FROM ONE (1) NORMAL BRANCH CIRCUIT AS SHOWN. PROVIDE (2) 1" AND (1) 1-1/4" CONDUIT STUBBED TO CORRIDOR CABLE TRAY FOR LOW VOLTAGE CABLING. PROVIDE (1) 3/4" CONDUIT STUBBED TO CORRIDOR FOR EACH BRANCH CIRCUIT.
2. PROVIDE LINE ISOLATION MONITORS FOR ISOLATED POWER PANELS. COORDINATE ROUGH-IN REQUIREMENTS WITH EQUIPMENT.
3. EXAM LIGHT - INSTALL AND CONNECT OWNER-FURNISHED EXAM LIGHT AND ASSOCIATED WALL CONTROLLER.
4. PROVIDE POWER CONNECTION TO HVAC PRESSURE MONITORING STATIONS. COORDINATE EXACT MOUNTING REQUIREMENTS WITH MECHANICAL.
5. LIFT CHARGER RECEPTACLE - REQUIRED ONLY IN ROOMS WHERE "CEILING LIFT" IS INDICATED IN ROOM NAME ILLUSTRATED ON THE FLOOR PLANS. COORDINATE EXACT LOCATION ON WALL TO SERVE "CEILING LIFT CHARGER WITHIN OWNER'S CABINET".
6. COORDINATE EXACT LOCATION TO SERVE FINAL SELECTED LOCATION OF OWNER'S FETAL MONITOR CART AND CHARTING PC. COORDINATE EXACT LOCATION WITH OWNER.
7. ISOLATION PRE CHARGING RECEPTACLES - REQUIRED ONLY IN ROOMS WHERE "ISOLATION" IS INDICATED IN ROOM NAME ILLUSTRATED ON THE FLOOR PLANS. PROVIDE TWO DUPLEX RECEPTACLES SHOWN WITHIN NURSE PASS THRU CABINET. COORDINATE EXACT LOCATION WITHIN CABINET WITH OWNER.

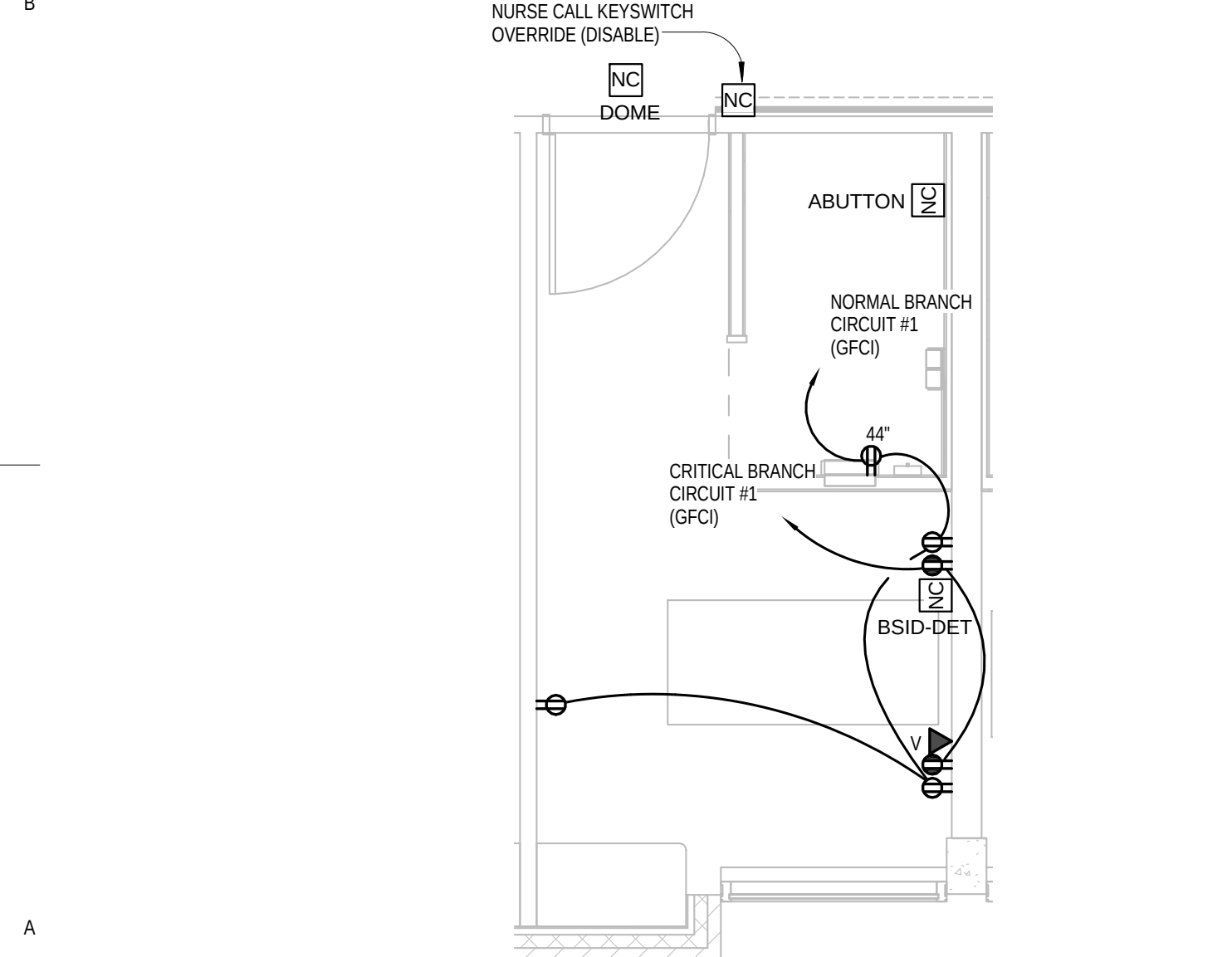


5 Enlarged Power Plan - Well Baby Nursery
1/4" = 1'-0"

6 Enlarged Power Plan - C-Section Room
1/4" = 1'-0"

7 Enlarged Power Plan - NICU Patient Room
1/4" = 1'-0"

8 Enlarged Power Plan - O.P. Surgery/Prep. Recovery
1/4" = 1'-0"



9 Enlarged Power Plan - Typical behavioral Patient Room (Renovated)
1/4" = 1'-0"

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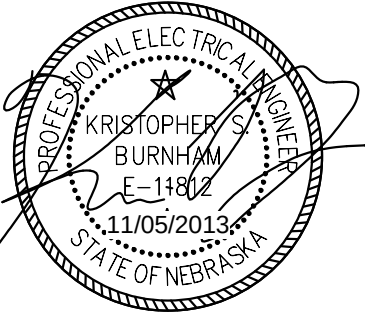
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MECHANICAL ENGINEER		Todd Kubick	
ELECTRICAL ENGINEER		Kris Burnham	
INTERIOR DESIGNER		Jill McFee	
EQUIPMENT PLANNER		Greg Olsen	
DRAWN BY		Author	



ENLARGED POWER PLANS

SCALE 1/4" = 1'-0"

E-402

CONSTRUCTION DOCUMENTS

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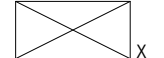
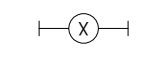
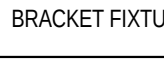
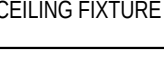
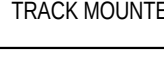
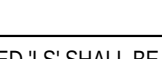
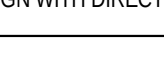
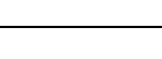
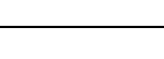
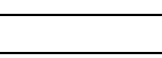
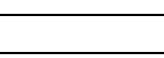
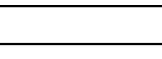
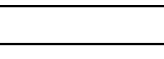
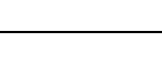
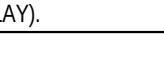
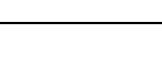
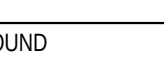
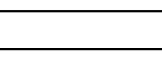
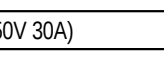
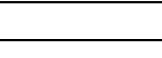
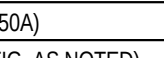
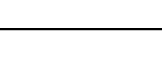
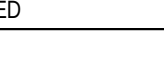
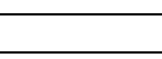
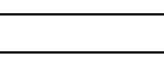
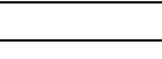
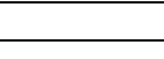
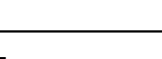
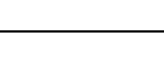
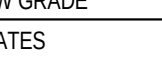
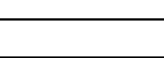
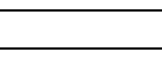
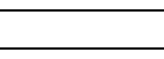
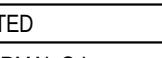
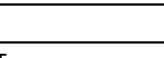
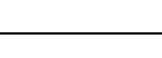
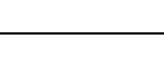
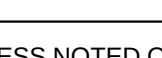
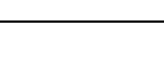
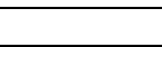
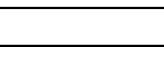
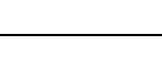
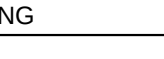
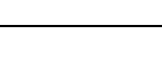
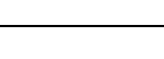
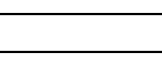
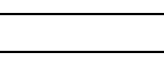
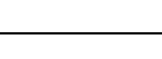
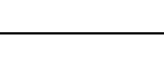
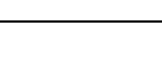
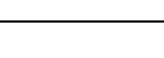
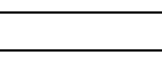
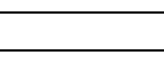
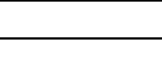
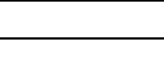
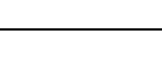
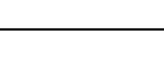
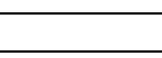
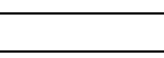
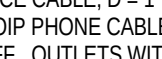
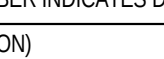
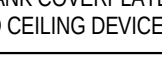
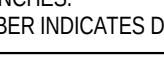
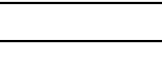
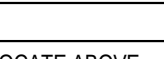
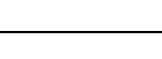
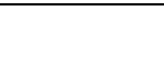
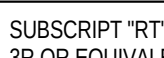
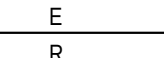
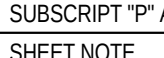
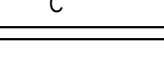
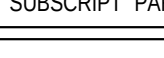
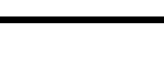
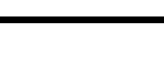
INSTALL GREEN INSULATED GROUND WIRE WITH LIGHTING, RECEPTACLE AND EQUIPMENT BRANCH CIRCUITS.

INSTALL INDIVIDUAL (DEDICATED) NEUTRAL CONDUCTORS FOR EACH 120V OR 277V PHASE CONDUCTOR SERVED FROM A SINGLE POLE CIRCUIT BREAKER.

SES SPECIALIZED ENGINEERING SOLUTIONS
10360 Ellison Circle Omaha, NE 68134 Phone: 402.991.5520 www.specializedeng.com

SES PROJECT # 12140

ELECTRICAL SYMBOLS

LIGHTING AND POWER				"X" INDICATES FIXTURE NUMBER IN SCHEDULE			
	FLUORESCENT FIXTURE		FLUORESCENT STRIP LIGHT		BRACKET FLUORESCENT FIXTURE		BRACKET FIXTURE
	CEILING FIXTURE		TRACK MOUNTED FIXTURE		POLE LUMINAIRE		WALL MOUNTED EXIT SIGN WITH DIRECTIONAL ARROW
	LIGHT FIXTURES INDICATED 'LS' SHALL BE ON AN EMERGENCY CIRCUIT		CEILING MOUNTED EXIT SIGN WITH DIRECTIONAL ARROW		SWITCH - SINGLE POLE		SWITCH - DOUBLE POLE
	SWITCH - 3-WAY		SWITCH - 4-WAY		SWITCH - MOMENTARY CONTACT		CEILING OCCUPANCY SENSOR (LOCAL RELAY)
	SWITCH - DOOR		CEILING OCCUPANCY SENSOR (LOCAL RELAY)		MANUAL DIMMER OR FAN SPEED CONTROL		CEILING OCCUPANCY SENSOR (REMOTE RELAY)
	PUSH BUTTON		WALL SWITCH OCCUPANCY SENSOR (LOCAL RELAY)		RECEPTACLE - DUPLEX		RECEPTACLE - SINGLE
	RECEPTACLE - DUPLEX		RECEPTACLE - DOUBLE DUPLEX		RECEPTACLE - DUPLEX - ISOLATED GROUND		RECEPTACLE - DOUBLE DUPLEX - ISOLATED GROUND
	RECEPTACLE - DUPLEX - EXTRA HEAVY DUTY		RECEPTACLE - DOUBLE DUPLEX - RED TYPE		RECEPTACLE - DUPLEX - RED TYPE		RECEPTACLE - RANGE TYPE - NEMA 14-30 (125/250V) 30A
	RECEPTACLE - DUPLEX - RED TYPE		RECEPTACLE - RANGE TYPE - NEMA 14-60 (125/250V) 60A		RECEPTACLE - DUPLEX - SPLIT WIRED		RECEPTACLE - WILDER TYPE - NEMA 5-50 (250V) 50A
	RECEPTACLE - DUPLEX - SPLIT WIRED		RECEPTACLE - SPECIAL PURPOSE - (NEMA CONFIG AS NOTED)		RECEPTACLE - DUPLEX - CEILING MOUNTED		RECEPTACLE - DUPLEX - FLOOR
	RECEPTACLE - DUPLEX - CEILING MOUNTED		RECEPTACLE - DUPLEX - HORIZONTAL MOUNTED		LIGHTING PANEL		DISTRIBUTION PANEL, SWITCHBOARD OR MOTOR CONTROL CENTER
	DISTRIBUTION PANEL, SWITCHBOARD OR MOTOR CONTROL CENTER		WALL MOUNTED JUNCTION BOX		JUNCTION BOX ("C" INDICATES FLOOR, "X" INDICATES CEILING)		PHOTOCELL
	BRANCH CIRCUIT - EXPOSED		CONDUIT SEAL		BRANCH CIRCUIT CONCEALED IN CEILING OR WALL		CONDUIT DOWN
	BRANCH CIRCUIT CONCEALED IN FLOOR OR BELOW GRADE		CONDUIT STUB OUT		HOME RUN TO PANEL, NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS		CIRCUIT BREAK
	SPECIAL PURPOSE HOME RUN AS INDICATED		SINGLE PHASE MAGNETIC MOTOR STARTER		SAFETY SWITCH - FUSED UNLESS OTHERWISE NOTED		THREE PHASE MAGNETIC MOTOR STARTER
	SAFETY SWITCH - FUSED UNLESS OTHERWISE NOTED		COMBINATION MAGNETIC STARTER/DISCONNECT		SINGLE POLE MANUAL MOTOR STARTER WITH THERMAL O.L. AND PILOT LIGHT		MOTOR CONTROL PUSHBUTTON STATION
	SINGLE POLE MANUAL MOTOR STARTER WITH THERMAL O.L. AND PILOT LIGHT		RELAY		SWITCH & FUSE		EQUIPMENT CONTROL PANEL
	SWITCH & FUSE		EQUIPMENT CONTROL PANEL	FIRE ALARM SYSTEM "W" INDICATES WALL MOUNTED UNLESS NOTED OTHERWISE			
	AUTOMATIC SMOKE DETECTOR - CEILING		STROBE - CEILING		AUTOMATIC HEAT DETECTOR - CEILING		HORN - CEILING
	SAMPLING TUBE TYPE SMOKE DETECTOR		HORN & STROBE COMBINATION - CEILING		COMBINATION FIRE/SMOKE DAMPER		MANUAL STATION
	SMOKE DAMPER		CONTROL MODULE		MAGNETIC DOOR HOLDER		MONITORING MODULE
	MAGNETIC DOOR HOLDER		FIRE SPRINKLER VALVE TAMPER SWITCH		CONTROL PANEL		FIRE SPRINKLER FLOW SWITCH
	CONTROL PANEL		FIRE SPRINKLER FLOW SWITCH	NURSE CALL SYSTEM			
	4-BUTTON STATION		FEATURE BED RECEPTACLE		FULL CORD		FULL CORD
	ALARM STATION		FULL CORD		REMOTELY PIPED SPEAKER RECEPTACLE		STAFF ASSIST CODE BLUE
	BEDROOM STATION		REMOTELY PIPED SPEAKER RECEPTACLE		COUNT DOWN CLOCK		STAFF STATION
	CONSOLE		COUNT DOWN CLOCK		DOMELIGHT		STAFF STATION
	COUNT DOWN CLOCK		DOMELIGHT		DOMELESS CONTROLLER		STAFF TERMINAL
	DOMELESS CONTROLLER		STAFF TERMINAL		DUTY STATION		CONTROL PANEL
	DUTY STATION		CONTROL PANEL		MASTER STATION		MASTER STATION
	MASTER STATION		MASTER STATION	SOUND			
	CEILING SPEAKER		CEILING SPEAKER	TELECOMMUNICATIONS			
	COMMUNICATIONS OUTLET, OUTLET TYPE INDICATED PER PLAN, PROVIDE CABLEING AS FOLLOWS: V = 1 DIGITAL VOICE CABLE, D = 1 DATA CABLE, A = 1 ANALOG VOICE CABLE, W = 1 VOIP PHONE CABLE WITH PHONE MOUNTING BRACKET PLATE AT 48" AFF. OUTLETS WITH NO CABLEING DESIGNATION SHALL BE EMPTY WITH BLANK COVERPLATE. CABLEING DESIGNATIONS TYPICAL FOR FLOOR AND CEILING DEVICES.		VERTICAL CABLE MANAGEMENT - DIMENSIONS ARE IN INCHES. FIRST NUMBER INDICATES WIDTH, SECOND NUMBER INDICATES DEPTH.		CABLE TRAY (TYPE INDICATED PER SPECIFICATION)		CABLE TRAY DIMENSIONS - DIMENSIONS ARE IN INCHES. FIRST NUMBER INDICATES WIDTH, SECOND NUMBER INDICATES DEPTH.
	COMBINATIONS FLOOR OUTLET-POWER & COMMUNICATIONS		4 WIDE X 8 TALL PLYWOOD BACKING, SEE SPECIFICATION.		CONDUIT SLEEVE WITH BUSHINGS		CONDUIT SLEEVE WITH BUSHINGS
	FLOOR COMMUNICATIONS OUTLET		CONDUIT SLEEVE WITH BUSHINGS		CEILING COMMUNICATIONS OUTLET		CEILING COMMUNICATIONS OUTLET
	CEILING COMMUNICATIONS OUTLET		CEILING COMMUNICATIONS OUTLET		TELEVISION OUTLET		TELEVISION OUTLET
	TELEVISION OUTLET		TELEVISION OUTLET	SECURITY SYSTEMS			
	VIDEO CAMERA ("W" INDICATES WALL MOUNTED)		VIDEO CAMERA ("W" INDICATES WALL MOUNTED)	MISCELLANEOUS			
	SUBSCRIPT "WP" APPLIED TO ANY SYMBOL INDICATES WEATHERPROOF NEMA TYPE 4 OR EQUIVALENT		SUBSCRIPT "RT" APPLIED TO ANY SYMBOL INDICATES RAINIGHT NEMA 3R OR EQUIVALENT		SUBSCRIPT "E" ADDED TO ANY SYMBOL INDICATES EXISTING		SUBSCRIPT "PL" ADDED TO ANY SYMBOL INDICATES PILOT LIGHT
	SUBSCRIPT "E" ADDED TO ANY SYMBOL INDICATES EXISTING		SUBSCRIPT "PL" ADDED TO ANY SYMBOL INDICATES PILOT LIGHT		SUBSCRIPT "R" ADDED TO ANY SYMBOL INDICATES REUSED		SHEET NOTE
	SUBSCRIPT "R" ADDED TO ANY SYMBOL INDICATES REUSED		SHEET NOTE		SUBSCRIPT "C" ADDED TO ANY SYMBOL INDICATES CEILING		SUBSCRIPT "PART" ADDED TO ANY SYMBOL INDICATES PARTIAL
	SUBSCRIPT "C" ADDED TO ANY SYMBOL INDICATES CEILING		SUBSCRIPT "PART" ADDED TO ANY SYMBOL INDICATES PARTIAL				

LIGHTING FIXTURE SCHEDULE

FIXTURE	MANUFACTURER	SUBS	CATALOG NO. (NOTE A)	LAMP	VOLTS	INPUT WATTS	MOUNTING	DESCRIPTION	REMARKS
A1	LITHONIA		2VT12 24L ADP D24 LP840 NX	LED	24 W	24 W	RECESSED	2x4 VOLUMETRIC - 2400 LUMEN	
A2	LITHONIA		2VT12 48L ADP D47 LP840 NX	LED	47 W	47 W	RECESSED	2x4 VOLUMETRIC - 4800 LUMEN	
A3	LITHONIA	P	2VT14 72L ADP D75 LP840 NX	LED	75 W	75 W	RECESSED	2x4 VOLUMETRIC - 7200 LUMEN	
A4	LITHONIA	P	2VT12 36L ADP D36 LP840 NX	LED	36 W	36 W	RECESSED	2x2 VOLUMETRIC - 3600 LUMEN	
A5	FOCAL POINT	P	FAVBL SR LL2 L40 1C 120 G1 WH	LED	31 W	31 W	RECESSED	6" x 4" LINEAR	
A6	FOCAL POINT	P	FTRL AC LL1 L40 1C 120 LD1 G SSB WH XX	LED	130 W	130 W	RECESSED	CORRIDOR PERIMETER	NOTE 1
A7	KENALL	P	ME22 G 50L40K DCC 1 120 FA	LED	36 W	36 W	RECESSED	2x2 INDIRECT - BEHAVIORAL	
A8	KENALL		ME22 G 50L40K DCC 1 120 FA	LED	66 W	66 W	RECESSED	2x4 INDIRECT - BEHAVIORAL	
B1	POINT LIGHTING	P	PHB-37001-R-1	LED	71 W	71 W	SURFACE	HELICOPTER BEACON	
C1	ALW	P	LPRIWT DRY 2' LEDSCW-4000 LED-DIM 120 AL	LED	120 V	12 W	RECESSED	2'-0" PATIENT ENTRY	
C2	ALW	P	LPRIWT DRY 1'-4" LEDSCW-4000 LED-DIM 120 AL	LED	120 V	9 W	RECESSED	1'-4" PATIENT ENTRY	
C3	ALW	P	LPRIWT DRY 10' HP10-4000 LED-DIM 120 AL	LED	120 V	130 W	RECESSED	10' CORRIDOR GRAZE	
C4	LUMENPULSE	P	LCS RO 120 ** 40K FR ** ** WH DIM	LED	120 V	144 W	COVE	ELEVATOR COVE	NOTE 2
D5	LUMENPULSE	P	LOG RO 120 ** 40K 10x10 UMP BK DIM **	LED	120 V	170 W	COVE	EXTERIOR GRAZE	NOTE 2
D1	EXISTING				120 V	0 W			
D2	GOTHAM		EVO 41/14 6AR MVOLT	LED	25 W	25 W	RECESSED	6" OPEN DOWNLIGHT	
D3	GOTHAM		EVO 41/10 4AR MVOLT	LED	21 W	21 W	RECESSED	4" OPEN DOWNLIGHT	
D2	GOTHAM		EVO 41/14 6DFFR MVOLT	LED	25 W	25 W	RECESSED	6" SHOWER DOWNLIGHT	
D4	GOTHAM	P	EVO 41/14 6AR DLR MVOLT	LED	0 V	25 W	RECESSED	6" DECO RING DOWNLIGHT	
D5	KENALL		ME22 G 50L40K DCC 1 120 FA	LED	30 W	30 W	RECESSED	6" DOWNLIGHT - BEHAVIORAL	
H1	VISA		CM1912-CLW2200-TW9016-MWAC	LED	0 V	100 W	RECESSED	PATIENT EXAM/READING/AMBIENT	
H2	HEALTHCARE	P	HSTLED 22 G 120 LEDA40 2C	LED	120 V	128 W	RECESSED	2x2 SURGICAL TROFFER	
H3	HEALTHCARE	P	HSTLED 24 G 120 LEDA40 2C	LED	120 V	266 W	RECESSED	2x4 SURGICAL TROFFER	
H3B	HEALTHCARE	P	HSTLED 24 G 120 LEDA40 2C EM2-120	LED	120 V	256 W	RECESSED	2x4 SURGICAL TROFFER - BATTERY	
H4	KENALL		MMEC22 F 2' 0 3 408 120 W	LED	120 W	120 W	RECESSED	2' EXAM - BEHAVIORAL	
L1	LITHONIA		2T12 33L FW A12 D38 LP840 NX	LED	38 W	38 W	RECESSED	2x2 ACRYLIC - 3300 LUMEN	
L2	LITHONIA		2T14 46L FW SWL D50 LP840 NX	LED	50 W	50 W	RECESSED	2x4 ACRYLIC - 4600 LUMEN	
L3	LITHONIA	P	T14 43L FW A12 D48 LP840 NX	LED	120 V	46 W	RECESSED	1x4 ACRYLIC - 4300 LUMEN	
N1	HEALTHCARE	P	NHL610 MVOLT LEDA40 PC	LED	0 W	5 W	RECESSED	PATIENT NIGHTLIGHT	
O1	OWNER FURNISHED				0 V	0 W	RECESSED	LABOR DELIVERY LIGHT	
P1	TREND	P	BT7156	1 - 50W INC	120 V	50 W	SUSPENDED	DECORATIVE PENDANT	NOTE 3
P2	ARTEMIDE	N	MOUETTE ASY FLU GS75 HE 2x24W+2x54W	2 - 24W + 2 - 54W TSHO	120 V	156 W	SUSPENDED	LINEAR PENDANT	NOTE 3
P3	ARTEMIDE	N	M240100 - TWIST	8 - 54W TSHO	120 V	432 W	SUSPENDED	TWIST PENDANT	NOTE 3
S1	LITHONIA	P	Z1 L46 4600L LP840	LED	15 W	15 W	CHAM HUNG	INDUSTRIAL	
W1	TECH	P	700BCLYNN Y S LED	LED	20 W	20 W	SURFACE	STAFF VANITY	NOTE 4
W2	TECH	P	700BCSIB R S CF	2 - 39W TSHO	80 W	80 W	WALL RECESSED	PATIENT VANITY	NOTE 4
W3	ARTEMIDE	P	USC-M185308500RE	1 - 14W T5	120 V	0 W	WALL RECESSED	PUBLIC VANITY	NOTE 4
W4	TECH	P	700BCLYNN Y S LED	LED	120 V	20 W	SURFACE	STAFF VANITY	NOTE 4
W5	LITHONIA	P	WL4 41L D43 LP840 N80 NES7ADCX DIM10	LED	120 V	43 W	SURFACE	EGRESS STAIR	
W6	TREND	P	TW7583	1 - 60W INC	120 V	60 W	SURFACE	CORRIDOR SCNCE	NOTE 4
W7	FOCAL POINT	P	FSM4L FL LL1 L40 1C 120 XF1 EC WH 4'	LED	0 V	39 W	WALL RECESSED	4' STAIR LINEAR	NOTE 4
W8	FOCAL POINT	P	FSM4L FL LL1 L40 1C 120 XF1 EC WH 74'	LED	0 V	740 W	WALL RECESSED	74' STAIR LINEAR	NOTE 4
W9	VISA		CM2206-CLW2200-35-NONE-XX	LED	120 V	60 W	SURFACE	EXTERIOR WALL GRAZE	NOTE 4
X1	LITHONIA		LQM S 3 R 120V277	LED	0 V	0 W	UNIVERSAL	EXIT	

KEY NOTES

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ELECTRICAL SUPPLEMENTAL SYMBOL LEGEND									
PLAN SYMBOL	DEVICE	DEVICE MODEL NO.	ELEVATION	ROUGH-IN GANG QTY	BOX TYPE	BOX DEPTH	CONDUIT SIZE	CONDUIT STUB LOCATION	REMARKS (NOTE 1)
	DOMELIGHT	352000	CEILING	1	RACO 695	3-1/2"	1"	CABLE TRAY	NOTE 1
-PROVIDE ROUGH-IN WITH PULL STRING									
	CONSOLE	351200	18"	1	RACO 695	3-1/2"	1"	CABLE TRAY	NOTE 1
-PROVIDE ROUGH-IN WITH PULL STRING									
	DUTY STATION	353100	48"	3	RACO 697	3-1/2"	1"	CABLE TRAY	NOTE 1
-PROVIDE ROUGH-IN WITH PULL STRING									
	EQUIPMENT ALARM STATION	354018	NOTE 4	1	RACO 695	3-1/2"	1"	DOMELIGHT	NOTE 1
-PROVIDE ROUGH-IN WITH PULL STRING									
	ZONE LIGHT	352000	CEILING	1	RACO 695	3-1/2"	1"	CABLE TRAY	NOTE 1
-PROVIDE ROUGH-IN WITH PULL STRING									
	STAFF STATION	353101	48"	3	RACO 697	3-1/2"	1"	DOMELIGHT	NOTE 1
-PROVIDE ROUGH-IN WITH PULL STRING									
	PULL CORD	354001	NOTE 2	1	RACO 695	3-1/2"	1"	DOMELIGHT	NOTE 1
-PROVIDE ROUGH-IN WITH PULL STRING									
	PULL CORD - WITH AUDIO	354000	NOTE 2	1	RACO 695	3-1/2"	1"	DOMELIGHT	NOTE 1
-PROVIDE ROUGH-IN WITH PULL STRING									
	EMERGENCY BATH - DETENTION GRADE	HSS433	NOTE 2	1	RACO 674	PER MFG	1"	DOMELIGHT	--
-PROVIDE ROUGH-IN WITH PULL STRING									
	EMERGENCY BATH W/ AUDIO - DETENTION	HSS400	NOTE 2	3	RACO 697	3-1/2"	1"	DOMELIGHT	--
-PROVIDE ROUGH-IN WITH PULL STRING									
	STAFF TERMINAL - GRAPHIC DISPLAY	351300	48"	3	RACO 697	3-1/2"	1"	DOMELIGHT	--
-PROVIDE ROUGH-IN WITH PULL STRING									
	BED INTERFACE PLUG	NCBED5	NOTE 4	1	PER MFG	PER MFG	1"	DOMELIGHT	--
-PROVIDE ROUGH-IN WITH PULL STRING									
	BEDSIDE STATION - PILLOW SPEAKER	353001	NOTE 4	3	RACO 697	3-1/2"	1"	DOMELIGHT	--
-PROVIDE ROUGH-IN WITH PULL STRING									
	NURSE CALL - LIGHTING INTERFACE	NCLV120	--	1	PER MFG	PER MFG	PER MFG	DOMELIGHT	--
-PROVIDE BOX MOUNTED ABOVE CEILING WITH CONNECTION TO LIGHT FIXTURES PER MANUFACTURER.									
	NURSE CALL - TV INTERFACE	--	VARIES	1	PER MFG	PER MFG	1"	DOMELIGHT	--
-PROVIDE ROUGH-IN WITH PULL STRING									
	BEDSIDE STATION - DETENTION GRADE	HSS400	NOTE 4	3	RACO 697	3-1/2"	1"	DOMELIGHT	--
-PROVIDE ROUGH-IN WITH PULL STRING									
	WALL PHONE	--	48"	1	4" SQ	2-1/8"	1"	ACCESSIBLE CEILING	SEE DETAIL 5 ON SHEET E-606
-PROVIDE VOIP DATA CABLE/JACK AND WALL PHONE DEVICE PLATE									
	AUDIO/VISUAL - "ACTIVITY" - INPUT JACK	--	18"	PER MFG	PER MFG	PER MFG	PER MFG	PER MFG	--
-PROVIDE AUDIO INPUT WALL JACK PER SPECIFICATION.									
	AUDIO/VISUAL - "ACTIVITY" - CONTROL STATION	--	48"	PER MFG	PER MFG	PER MFG	PER MFG	PER MFG	--
-PROVIDE AUDIO CONTROL WALL STATION PER SPECIFICATION.									
	AUDIO/VISUAL - "CHAPEL" - INPUT JACK	--	18"	PER MFG	PER MFG	PER MFG	PER MFG	PER MFG	--
-PROVIDE AUDIO INPUT WALL JACK PER SPECIFICATION.									
	AUDIO/VISUAL - "CHAPEL" - CONTROL STATION	--	48"	PER MFG	PER MFG	PER MFG	PER MFG	PER MFG	--
-PROVIDE AUDIO CONTROL WALL STATION.									
	TELEVISION	--	VARIES	1	4" SQ	2-1/8"	1"	ACCESSIBLE CEILING	SEE DETAIL 8 ON SHEET E-603
-PROVIDE CATV CABLE.									
	TELEVISION - WITH AV CONNECTIVITY	--	VARIES	1	4" SQ	2-1/8"	1"	ACCESSIBLE CEILING	SEE DETAIL 7 ON SHEET E-603
-PROVIDE CATV CABLE.									
	SPEAKER - "GENERAL"	--	--	--	--	--	--	--	--
-PUBLIC ADDRESS SPEAKER PER SPECIFICATION.									
	VOICEDATA OUTLET	--	VARIES	1	4" SQ	2-1/8"	1"	ACCESSIBLE CEILING	SEE DETAIL 5 ON SHEET E-606
-PROVIDE VOICE AND DATA CABLES. QUANTITY AS INDICATED ON PLANS.									
	WIRELESS ACCESS POINT	--	--	--	--	--	--	--	--
-PROVIDE DATA CABLE AND CABLE-END CONNECTOR WITH 15' SLACK ABOVE CEILING AT THIS LOCATION. COORDINATE EXACT CABLE-END CONNECTOR WITH OWNER. OWNER WILL PROVIDE WIRELESS ACCESS POINT.									
	WIRELESS ACCESS POINT - REF MONITOR	--	--	--	--	--	--	--	--
-PROVIDE DATA CABLE AND CABLE-END CONNECTOR WITH 15' SLACK ABOVE CEILING AT THIS LOCATION. COORDINATE EXACT CABLE-END CONNECTOR WITH OWNER. OWNER WILL PROVIDE WIRELESS ACCESS POINT.									
	FIRE SMOKE DAMPER	--	--	--	--	--	--	--	SEE DETAIL 3 ON SHEET E-603
-CIRCUIT FIRE SMOKE DAMPERS TO 20A 120V LIFE SAFETY BRANCH CIRCUITS IN LOCAL LIFE SAFETY BRANCH PANEL OF THE ASSOCIATED CONSTRUCTION PHASE. PROVIDE INDIVIDUAL CIRCUITS FOR EACH HANDLING UNIT ZONES. REFER TO MECHANICAL PLANS FOR ASSOCIATED ZONES.									
	SMOKE CURTAIN	--	--	--	--	--	--	--	--
-CIRCUIT SMOKE CURTAINS TO 20A 120V LIFE SAFETY BRANCH CIRCUITS IN LOCAL LIFE SAFETY BRANCH PANEL OF THE ASSOCIATED CONSTRUCTION PHASE. TWO SMOKE CURTAINS MAY SHARE A SINGLE CIRCUIT. PROVIDE FIRE ALARM CONTROL MODULE TO OPERATE SMOKE CURTAIN UPON DETECTION OF SMOKE. INSTALL AND CONNECT SMOKE CURTAIN CONTROL ACCESSORIES FURNISHED WITH THE SYSTEM. COORDINATE WITH MANUFACTURER'S REQUIREMENTS.									

ELECTRICAL SUPPLEMENTAL SYMBOL LEGEND									
PLAN SYMBOL	DEVICE	DEVICE MODEL NO.	ELEVATION	ROUGH-IN GANG QTY	BOX TYPE	BOX DEPTH	CONDUIT SIZE	CONDUIT STUB LOCATION	REMARKS (NOTE 1)
	DOOR OPENER	--	--	PER MFG	PER MFG	PER MFG	PER MFG	PER MFG	--
-PROVIDE 120V CONNECTION INDICATED AND INSTALL ASSOCIATED PUSH PLATES FURNISHED WITH OPERATOR. COORDINATE EXACT LOCATION OF PUSH PLATES WITH ARCHITECT AND INTERLOCK TO OPERATE ASSOCIATED DOOR OPERATOR. INCLUDE INTERLOCKS WITH OTHER DOOR CONTROL COMPONENTS INCLUDING BUT NOT LIMITED TO ELECTRONIC STRIKES, MOTION SAFETY CONTROLS, CARD ACCESS CONTROL, KEY SWITCH, AND POWER SUPPLY. PUSH PLATES MAY REQUIRE LOCATIONS REMOTE FROM THE DOOR TO ALLOW FOR OPERATION WHILE SIMULTANEOUSLY TRANSPORTING A PATIENT BED. MULTIPLE PUSH PLATES WILL BE REQUIRED WHERE APPROACH TO SAME SIDE OF DOOR IS FROM MULTIPLE DIRECTIONS. WHERE DOOR IS ALSO SPECIFIED SHOWN TO UTILIZE ACCESS CONTROL. PROVIDE INTERLOCK TO ALLOW AUTOMATIC DOOR OPENING FROM THE ACCESS CONTROL SYSTEM UPON SUCCESSFUL CARD READ.									
	PERIMETER ACCESS CONTROLLED DOOR	--	--	PER MFG	PER MFG	PER MFG	PER MFG	PER MFG	--
-PROVIDE CARD READER AT EACH SIDE OF DOOR OPENING (CARD READ IN, CARD READ OUT). COORDINATE EXACT LOCATION OF CARD READER WITH ARCHITECT. COORDINATE LOCATION WITH OTHER CONTROLS ASSOCIATED WITH THE SAME DOOR (DOOR OPERATOR PLATES, WANDER PREVENTION SYSTEM KEYPAD, NURSE CALL CANCEL STATION, ETC). INTEGRATE ACCESS CONTROL SYSTEM WITH DOOR HARDWARE. REFER TO ACCESS CONTROL AND ARCHITECTURAL DOOR HARDWARE SPECIFICATIONS FOR COORDINATION OF FEATURES, DEVICES, AND CONNECTIONS REQUIRED. POWER DOOR CONTROLLER FROM 120V EQUIPMENT BRANCH CIRCUIT INDICATED. PROVIDE ADDRESSABLE FIRE ALARM SYSTEM CONNECTION FOR DOOR RELEASE UPON ALARM.									
	INTERIOR ACCESS CONTROLLED DOOR	--	--	PER MFG	PER MFG	PER MFG	PER MFG	PER MFG	--
-PROVIDE CARD READER AT CORRIDOR SIDE OF DOOR OPENING (CARD READ FROM CORRIDOR TO SPACE, FREE EGRESS FROM SPACE TO CORRIDOR). COORDINATE EXACT LOCATION OF CARD READER WITH ARCHITECT. COORDINATE LOCATION WITH OTHER CONTROLS ASSOCIATED WITH THE SAME DOOR (DOOR OPERATOR PLATES, ETC). INTEGRATE ACCESS CONTROL SYSTEM WITH DOOR HARDWARE. REFER TO ACCESS CONTROL AND ARCHITECTURAL DOOR HARDWARE SPECIFICATIONS FOR COORDINATION OF FEATURES, DEVICES, AND CONNECTIONS REQUIRED. POWER DOOR CONTROLLER FROM 120V EQUIPMENT BRANCH CIRCUIT INDICATED.									
	POSITION ONLY ACCESS CONTROLLED DOOR	--	--	PER MFG	PER MFG	PER MFG	PER MFG	PER MFG	--
-NO CARD READER. POSITION SWITCH MONITORED FROM ACCESS CONTROL SYSTEM. INTEGRATE ACCESS CONTROL SYSTEM WITH DOOR HARDWARE. REFER TO ACCESS CONTROL AND ARCHITECTURAL DOOR HARDWARE SPECIFICATIONS FOR COORDINATION OF FEATURES, DEVICES, AND CONNECTIONS REQUIRED. POWER DOOR CONTROLLER FROM 120V EQUIPMENT BRANCH CIRCUIT INDICATED.									
	ELEVATOR ACCESS CONTROL	--	--	PER MFG	PER MFG	PER MFG	PER MFG	PER MFG	--
-PROVIDE CARD READER AT LOBBY AND WITHIN EACH ELEVATOR CAB. COORDINATE INSTALLATION AND CABLING REQUIREMENTS (INCLUDING TRAVELING CABLE) WITH NEW AND EXISTING ELEVATOR MANUFACTURERS. COORDINATE PROGRAMMING SEQUENCE WITH OWNER AND ELEVATOR MANUFACTURE AND CONNECT TO ACTIVATE ACCESS TO DESIGNATED FLOORS. COORDINATE EXACT LOCATION OF CARD READER WITH ARCHITECT. COORDINATE LOCATION WITH THE ELEVATOR CONTROL STATIONS, ETC). INTEGRATE ACCESS CONTROL SYSTEM WITH ELEVATOR CONTROLS. REFER TO ACCESS CONTROL AND ARCHITECTURAL ELEVATOR SPECIFICATIONS FOR COORDINATION OF FEATURES, DEVICES, AND CONNECTIONS REQUIRED. POWER DOOR CONTROLLER FROM 120V EQUIPMENT BRANCH CIRCUIT INDICATED.									
	DELAY ONLY ACCESS CONTROL DOOR	--	--	PER MFG	PER MFG	PER MFG	PER MFG	PER MFG	--
-NO CARD READER. DELAYED EGRESS ONLY. INTEGRATE ACCESS CONTROL SYSTEM WITH DOOR HARDWARE. REFER TO ACCESS CONTROL AND ARCHITECTURAL DOOR HARDWARE SPECIFICATIONS FOR COORDINATION OF FEATURES, DEVICES, AND CONNECTIONS REQUIRED. POWER DOOR CONTROLLER FROM 120V EQUIPMENT BRANCH CIRCUIT INDICATED. PROVIDE ADDRESSABLE FIRE ALARM SYSTEM CONNECTION FOR DOOR RELEASE UPON ALARM.									
	WANDER PREVENTION CONSOL	--	--	PER MFG	PER MFG	PER MFG	PER MFG	PER MFG	--
-PROVIDE WANDER MANAGEMENT / INFANT SECURITY CONSOLE.									
	ELEVATOR WANDER PREVENTION	--	--	PER MFG	PER MFG	PER MFG	PER MFG	PER MFG	--
-PROVIDE WANDER PREVENTION SENSING AND CONTROL OF ELEVATOR CAB. INCLUDE WALL MOUNTED ANTENNAS WITHIN CAB AND KEYPAD WITH INTEGRAL ANNUNCIATOR AND OTHER DEVICES REQUIRED PER SPECIFICATION. COORDINATE EXACT LOCATION OF DEVICES WITH ELEVATOR. INTEGRATE WANDER PREVENTION WITH ELEVATOR CONTROLS. REFER TO WANDER PREVENTION SPECIFICATIONS FOR COORDINATION OF FEATURES, DEVICES, AND CONNECTIONS REQUIRED. POWER DEVICES WITH LOW VOLTAGE SOURCE FROM WANDER PREVENTION CONTROLLERS LOCATED IN ASSOCIATED ELECTRICAL ROOM.									
	PERIMETER WANDER PREVENTION DOOR	--	--	PER MFG	PER MFG	PER MFG	PER MFG	PER MFG	--
-PROVIDE WANDER PREVENTION SENSING AND CONTROL OF DOOR. INCLUDE WALL MOUNTED ANTENNAS AT BOTH SIDES OF DOOR. KEYPAD WITH INTEGRAL ALARM ANNUNCIATOR. DOOR POSITION SWITCH, MAG LOCK, AND OTHER DEVICES AS REQUIRED PER SPECIFICATION. COORDINATE EXACT LOCATION OF SENSORS AND KEYPAD WITH ARCHITECT. COORDINATE LOCATION WITH OTHER CONTROLS ASSOCIATED WITH THE SAME DOOR (DOOR OPERATOR PLATES, CARD READER, NURSE CALL CANCEL STATION, ETC). INTEGRATE WANDER PREVENTION WITH DOOR HARDWARE. REFER TO WANDER PREVENTION ACCESS CONTROL AND ARCHITECTURAL DOOR HARDWARE SPECIFICATIONS FOR COORDINATION OF FEATURES, DEVICES, AND CONNECTIONS REQUIRED. POWER DOOR DEVICES WITH LOW VOLTAGE SOURCE FROM WANDER PREVENTION CONTROLLERS LOCATED IN ASSOCIATED ELECTRICAL ROOM. INCLUDE ROUGH-IN FOR NURSE CALL CANCEL STATION. NURSE CALL CANCEL STATION PROVIDED BY ELECTRONIC SOUND UNDER SEPARATE DIRECT CONTRACT WITH THE OWNER. INTERLOCK WITH NURSE CALL SYSTEM TO PROVIDE NURSE CALL ALERT UPON ALARM.									
	NURSE PASS-THRU MEDICATION DRAWER ACCESS CONTROL	--	--	PER MFG	PER MFG	PER MFG	PER MFG	PER MFG	--
-PROVIDE CARD READER AT EACH SIDE OF NURSE PASS-THRU CABINET MEDICATION DRAWER (CARD READ FROM CORRIDOR-SIDE, CARD READ FROM PATIENT-SIDE). COORDINATE EXACT LOCATION OF CARD READER WITH ARCHITECT. INTEGRATE ACCESS CONTROL SYSTEM WITH DRAWER HARDWARE. REFER TO ACCESS CONTROL AND ARCHITECTURAL DRAWER HARDWARE SPECIFICATIONS FOR COORDINATION OF FEATURES, DEVICES, AND CONNECTIONS REQUIRED. POWER CONTROLLER FROM 120V EQUIPMENT BRANCH CIRCUIT INDICATED.									
	DOOR RELEASE PUSH BUTTON	--	--	PER MFG	PER MFG	PER MFG	PER MFG	PER MFG	--
-PROVIDE DOOR RELEASE PUSH BUTTON LOCATED UNDER DESK. CONNECT TO ACCESS CONTROL SYSTEM TO PROVIDE DOOR RELEASE UPON ACTIVATION OF BUTTON.									
	VIDEO INTERCOM STATION	APHONE JK-5VF	48"	PER MFG	PER MFG	PER MFG	PER MFG	PER MFG	--
-PROVIDE VIDEO INTERCOM WALL STATION. APHONE MODEL AS INDICATED. INCLUDE CABLING AND 120V BRANCH CIRCUIT CONNECTIONS PER MANUFACTURER. SUBMIT SHOP DRAWINGS FOR APPROVAL. COORDINATE EXACT LOCATION OF STATION WITH ARCHITECT. COORDINATE LOCATION WITH OTHER CONTROLS ASSOCIATED WITH THE SAME DOOR (DOOR OPERATOR PLATES, CARD READER, ETC). INTEGRATE DOOR RELEASE WITH DOOR HARDWARE. REFER TO ACCESS CONTROL AND ARCHITECTURAL DOOR HARDWARE SPECIFICATIONS FOR COORDINATION OF FEATURES, DEVICES, AND CONNECTIONS REQUIRED.									
	VIDEO INTERCOM CONSOL	APHONE JK-1MED	18"	PER MFG	PER MFG	PER MFG	PER MFG	PER MFG	--
-PROVIDE VIDEO INTERCOM DESK CONSOLE. APHONE MODEL AS INDICATED. INCLUDE CABLING AND 120V BRANCH CIRCUIT CONNECTIONS PER MANUFACTURER. SUBMIT SHOP DRAWINGS FOR APPROVAL. INTEGRATE DOOR RELEASE WITH DOOR HARDWARE. REFER TO ACCESS CONTROL AND ARCHITECTURAL DOOR HARDWARE SPECIFICATIONS FOR COORDINATION OF FEATURES, DEVICES, AND CONNECTIONS REQUIRED.									
	SURVEILLANCE CAMERA	--	--	--	--	--	--	--	--
-PROVIDE DATA CABLE AND CABLE-END CONNECTOR WITH 15' SLACK ABOVE CEILING AT THIS LOCATION. COORDINATE EXACT CABLE-END CONNECTOR WITH OWNER. INTEGRATED SYSTEMS GROUP WILL PROVIDE CAMERAS UNDER SEPARATE DIRECT CONTRACT WITH OWNER.									
	SURVEILLANCE CAMERA (EXTERIOR)	--	--	--	--	--	--	--	--
-PROVIDE DATA CABLE AND CABLE-END CONNECTOR WITH 15' SLACK ABOVE CEILING AT THIS LOCATION. COORDINATE EXACT CABLE-END CONNECTOR WITH OWNER. INTEGRATED SYSTEMS GROUP WILL PROVIDE CAMERAS UNDER SEPARATE DIRECT CONTRACT WITH OWNER.									
	SECURITY ALARM - PANIC BUTTON	--	18"	1	4" SQ	2-1/8"	3/4"	ACCESSIBLE CEILING	--
-PROVIDE PLUNGER STYLE PUSH BUTTON (MODEL: AMSECO HUSK-20). LOCATE IN CONCEALED ACCESSIBLE LOCATION BELOW DESK FOR PANIC USE. ROUTE CABLE TO DEVICE BOX AND USE GROMMETED BLANK DEVICE PLATE. CABLE SHALL ROUTE TO HOSPITAL PANIC ALARM INTERFACE LOCATED IN EMERGENCY DEPARTMENT DATA ROOM 1079. REFER TO SHEET E-201AB FOR LOCATION. CABLE SHALL BE PLENUM RATED SINGLE PAIR #18 AWG. COORDINATE CABLE COLOR CODE - AVOID DUPLICATION OF OTHER SYSTEM CABLE COLORS.									
	WIRELESS ACCESS POINT-PHILIPS TELEMETRY	--	--	--	--	--	--	--	--
-PROVIDE ORANGE, PLENUM RATED, CATEGORY 6A CABLE FROM LOCATION INDICATED ON PLANS TO NEAREST PHILIPS TELEMETRY RACK LOCATED IN ELECTRICAL ROOMS 3069 AND 4067. PROVIDE CABLE-END CONNECTOR WITH 15' SLACK ABOVE CEILING AT THIS LOCATION. QUANTITY AS INDICATED ON PLANS. COORDINATE EXACT CABLE-END CONNECTOR WITH OWNER. OWNER WILL PROVIDE WIRELESS ACCESS POINT.									
	MONITOR OUTLET, PHILIPS TELEMETRY	--	VARIES	1	4" SQ	2-1/8"	1"	ACCESSIBLE CEILING	SEE DETAIL 5 ON SHEET E-606
-PROVIDE ORANGE, PLENUM RATED, CATEGORY 6A CABLE FROM LOCATION INDICATED ON PLANS TO NEAREST PHILIPS TELEMETRY RACK LOCATED IN ELECTRICAL ROOMS 3069 AND 4067. QUANTITY AS INDICATED ON PLANS.									
	DISPLAY OUTLET, PHILIPS TELEMETRY	--	VARIES	1	4" SQ	2-1/8"	1"	ACCESSIBLE CEILING	SEE DETAIL 5 ON SHEET E-606
-PROVIDE ORANGE, PLENUM RATED, CATEGORY 6A CABLE FROM LOCATION INDICATED ON PLANS TO NEAREST PHILIPS TELEMETRY RACK LOCATED IN ELECTRICAL ROOMS 3069 AND 4067. QUANTITY AS INDICATED ON PLANS.									
	HARD WIRED PLUMBING	--	COORD	PER MFG	PER MFG	PER MFG	PER MFG	PER MFG	--
-COORDINATE DEVICE LOCATION AND RATING WITH PLUMBING FIXTURES BEING POWERED. REFER TO DETAIL 6 ON SHEET E-603.									
	EICU AV SERVER	--	NOTE 4	1	4" SQ	2-1/8"	(2) 1"	ACCESSIBLE CEILING	--
-IN ADDITION TO DATA OUTLET AND POWER RECEPTACLE SHOWN, PROVIDE EICU CABLE OUTLET FOR CABLING FROM EICU AV SERVER AT THIS LOCATION TO INDIVIDUAL EICU COMPONENTS SHOWN THROUGHOUT THE ROOM. PROVIDE CABLE AS INDICATED AND JACK WITHIN OUTLET AT BOTH ENDS. EICU EQUIPMENT AND ASSOCIATED PATCH CABLES AT EQUIPMENT ARE PROVIDED BY OWNER. REFER TO INDIVIDUAL EICU COMPONENT CABLEING REQUIREMENTS FOR COMBINED REQUIREMENTS AT EICU AV SERVER LOCATION. OUTLET AT THIS LOCATION WILL REQUIRE FIVE (5) JACKS TO ACCOMMODATE EICU COMPONENT CABLES.									
	EICU DISPLAY	--	CEILING	1	4" SQ	2-1/8"	1"	ACCESSIBLE CEILING	--
-IN ADDITION TO POWER RECEPTACLE SHOWN, PROVIDE EICU CABLE OUTLET. AT OUTLET, PROVIDE ONE (1) CAT6A DATA CABLE FROM THE EICU DISPLAY TO THE EICU AV SERVER.									
	EICU CAM	--	CEILING	1	4" SQ	2-1/8"	1"	ACCESSIBLE CEILING	--
-IN ADDITION TO POWER RECEPTACLE SHOWN, PROVIDE EICU CABLEING OUTLET. AT OUTLET, PROVIDE ONE (1) CAT6A DATA CABLE FROM THE EICU CAMERA TO THE EICU AV SERVER.									
	EICU BUTTON	--	COORD	1	4" SQ	2-1/8"	1"	ACCESSIBLE CEILING	--
-PROVIDE EICU CABLEING OUTLET. AT OUTLET, PROVIDE ONE (1) CAT6A DATA CABLE FROM THE EICU BUTTON TO THE EICU AV SERVER. OWNER WILL PROVIDE WALL DEVICE AT THIS LOCATION.									
	EICU MICROPHONE	--	--	--	--	--	--	--	--
-PROVIDE EICU CABLEING OUTLET. LOCATE OUTLET ABOVE CEILING. AT OUTLET, PROVIDE ONE (1) CAT6A DATA CABLE FROM THE EICU MICROPHONE TO THE EICU AV SERVER.									
	EICU SPEAKER	--	COORD	1	4" SQ	2-1/8"	1"	ACCESSIBLE CEILING	--
-PROVIDE EICU CABLEING OUTLET. AT OUTLET, PROVIDE ONE (1) CAT6A DATA CABLE FROM THE EICU BUTTON TO THE EICU AV SERVER. OWNER WILL PROVIDE WALL DEVICE AT THIS LOCATION. OWNER WILL PROVIDE WALL DEVICE AT THIS LOCATION.									

[illegible][illegible]

61	Space for Integral SPD	--	--	--	0 VA	0 VA			--	--	Space for Integral SPD	62
63	Space for Integral SPD	--	--	--			0 VA	0 VA	--	--	Space for Integral SPD	64
65	Space for Integral SPD	--	--	--					0 VA	0 VA	Space for Integral SPD	66
67	Space for Integral SPD	--	--	--	0 VA	0 VA			--	--	Space for Integral SPD	68
69	Space for Integral SPD	--	--	--			0 VA	0 VA	--	--	Space for Integral SPD	70
71	Space for Integral SPD	--	--	--					0 VA	0 VA	Space for Integral SPD	72
73	Space for Integral SPD	--	--	--	0 VA	0 VA			--	--	Space for Integral SPD	74
75	Space for Integral SPD	--	--	--			0 VA	0 VA	--	--	Space for Integral SPD	76
77	Space for Integral SPD	--	--	--					0 VA	0 VA	Space for Integral SPD	78
79	Space for Integral SPD	--	--	--	0 VA	0 VA			--	--	Space for Integral SPD	80
81	Space for Integral SPD	--	--	--			0 VA	0 VA	--	--	Space for Integral SPD	82
83	Space for Integral SPD	--	--	--					0 VA	0 VA	Space for Integral SPD	84

1. Spare Circuit Breakers: Provide the following spare branch circuit breakers in addition to circuit breakers listed above. Spares: (24) 20/1

General Lighting Panel Notes:

1. Panel AIC (Interrupting) Rating shall be minimum 120% of the available SCC (Short Circuit Current).

2. Circuit Breaker Options Suffix: 'S' or 'ST' - Provide Shunt Trip Circuit Breaker / 'G' or 'GFCI' - Provide GFCI Circuit Breaker / 'GFP' - Provide GFP Circuit Breaker.

[illegible][illegible]

63	Space for Integral SPD	--	--	--	0 VA	0 VA			--	--	Space for Integral SPD	62
61	Space for Integral SPD	--	--	--			0 VA	0 VA	--	--	Space for Integral SPD	64
65	Space for Integral SPD	--	--	--				0 VA	0 VA	--	Space for Integral SPD	66
67	Space for Integral SPD	--	--	--	0 VA	0 VA			--	--	Space for Integral SPD	68
69	Space for Integral SPD	--	--	--			0 VA	0 VA	--	--	Space for Integral SPD	70
71	Space for Integral SPD	--	--	--				0 VA	0 VA	--	Space for Integral SPD	72
73	Space for Integral SPD	--	--	--	0 VA	0 VA			--	--	Space for Integral SPD	74
75	Space for Integral SPD	--	--	--		0 VA	0 VA		--	--	Space for Integral SPD	76
77	Space for Integral SPD	--	--	--				0 VA	0 VA	--	Space for Integral SPD	78
79	Space for Integral SPD	--	--	--	0 VA	0 VA			--	--	Space for Integral SPD	80
81	Space for Integral SPD	--	--	--		0 VA	0 VA		--	--	Space for Integral SPD	82
83	Space for Integral SPD	--	--	--				0 VA	0 VA	--	Space for Integral SPD	84

1. Spare Circuit Breakers: Provide the following spare branch circuit breakers in addition to circuit breakers listed above. Spares: (12) 20/1

General Lighting Panel Notes:

1. Panel AIC (Interrupting) Rating shall be minimum 120% of the available SCC (Short Circuit Current).

2. Circuit Breaker Options Suffix: 'S' or 'ST' - Provide Shunt Trip Circuit Breaker / 'G' or 'GFCI' - Provide GFCI Circuit Breaker / 'GFP' - Provide GFP Circuit Breaker.

47	Space for Integral SPD	--	--	--				0 VA	0 VA	--	--	--	Space for Integral SPD	48
48	Space for Integral SPD	--	--	--	0 VA	0 VA				--	--	--	Space for Integral SPD	50
51	Space for Integral SPD	--	--	--			0 VA	0 VA		--	--	--	Space for Integral SPD	52
53	Space for Integral SPD	--	--	--					0 VA	0 VA	--	--	Space for Integral SPD	54
55	Space for Integral SPD	--	--	--	0 VA	0 VA				--	--	--	Space for Integral SPD	56

Location:	Elec. Room 4037	Volts:	120/208 Wye	Rating:	100 A
Supply From:	72E	Phases:	3	Mains Type:	MLO
Branch:	Equipment	Wires:	4	Panel Poles:	66
Mounting:	Surface	Available SCC (kA):	<10	Sections:	1

1. Spare Circuit Breakers: Provide the following spare branch circuit breakers in addition to circuit breakers listed above. Spares: (24) 20/1

General Lighting Panel Notes:

1. Panel AIC (Interrupting) Rating shall be minimum 120% of the available SCC (Short Circuit Current).

2. Circuit Breaker Options Suffix: 'S' or 'ST' - Provide Shunt Trip Circuit Breaker / 'G' or 'GFCI' - Provide GFCI Circuit Breaker / 'GFP' - Provide GFP Circuit Breaker.

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	5		www.pptonline.org	6
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8404 Indian Hills Drive | Omaha, NE 68114 | 402.399.1100



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Phone: 402.991.5520
www.specializedeng.com



PROJECT FOR



Fremont Area
Medical Center

MASTER PLAN
IMPLEMENTATION
PROJECT
450 EAST 23rd STREET
FREMONT, NE

BID PACKAGE #3

CONSTRUCTION DOCUMENTS

CONSTRUCTION DOCUMENTS

3	2013-12-05	Addendum #2
1	2013-11-27	Addendum #1

MARK	DATE	DESCRIPTION
PROJECT NUMBER		000000000197729

ORIGINAL ISSUE	11/05/2013
PROJECT MANAGER	Mike Goertzen

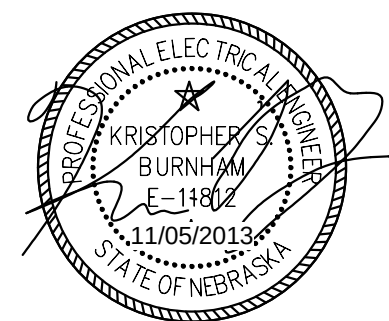
PROJECT DESIGNER	Brian Zabloudil
PROJECT ARCHITECT	Jeff Bahr

LANDSCAPE ARCHITECT	Brad Swerczek
CIVIL ENGINEER	-

STRUCTURAL ENGINEER	Doug Sholl
MECHANICAL ENGINEER	Todd Kubicek

ELECTRICAL ENGINEER	Kris Burnham
INTERIOR DESIGNER	Jill McFee

EQUIPMENT PLANNER	Greg Olsen
DRAWN BY	Author



EQUIPMENT POWER PANEL SCHEDULES

E-616

CONSTRUCTION DOCUMENTS



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PROJECT FOR

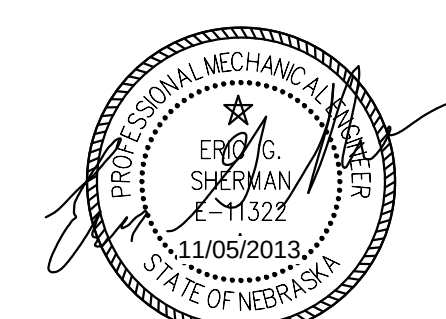


Fremont Area
Medical Center

MASTER PLAN
IMPLEMENTATION
PROJECT
450 EAST 23rd STREET
FREMONT, NE

BID PACKAGE #3

3	2013-12-05	Addendum #2
MARK	DATE	DESCRIPTION
	PROJECT NUMBER	000000000197729
	ORIGINAL ISSUE	11/05/2013
	PROJECT MANAGER	Mike Gierzen
	PROJECT DESIGNER	Brian Zahlofouli
	PROJECT ARCHITECT	Jeff Bahr
	LANDSCAPE ARCHITECT	Brad Swerczek
	CIVIL ENGINEER	
	STRUCTURAL ENGINEER	Doug Sholl
	MECHANICAL ENGINEER	Todd Kulick
	ELECTRICAL ENGINEER	Kris Burnham
	INTERIOR DESIGNER	Jill McFee
	EQUIPMENT PLANNER	Greg Olsen
	DRAWN BY	Author

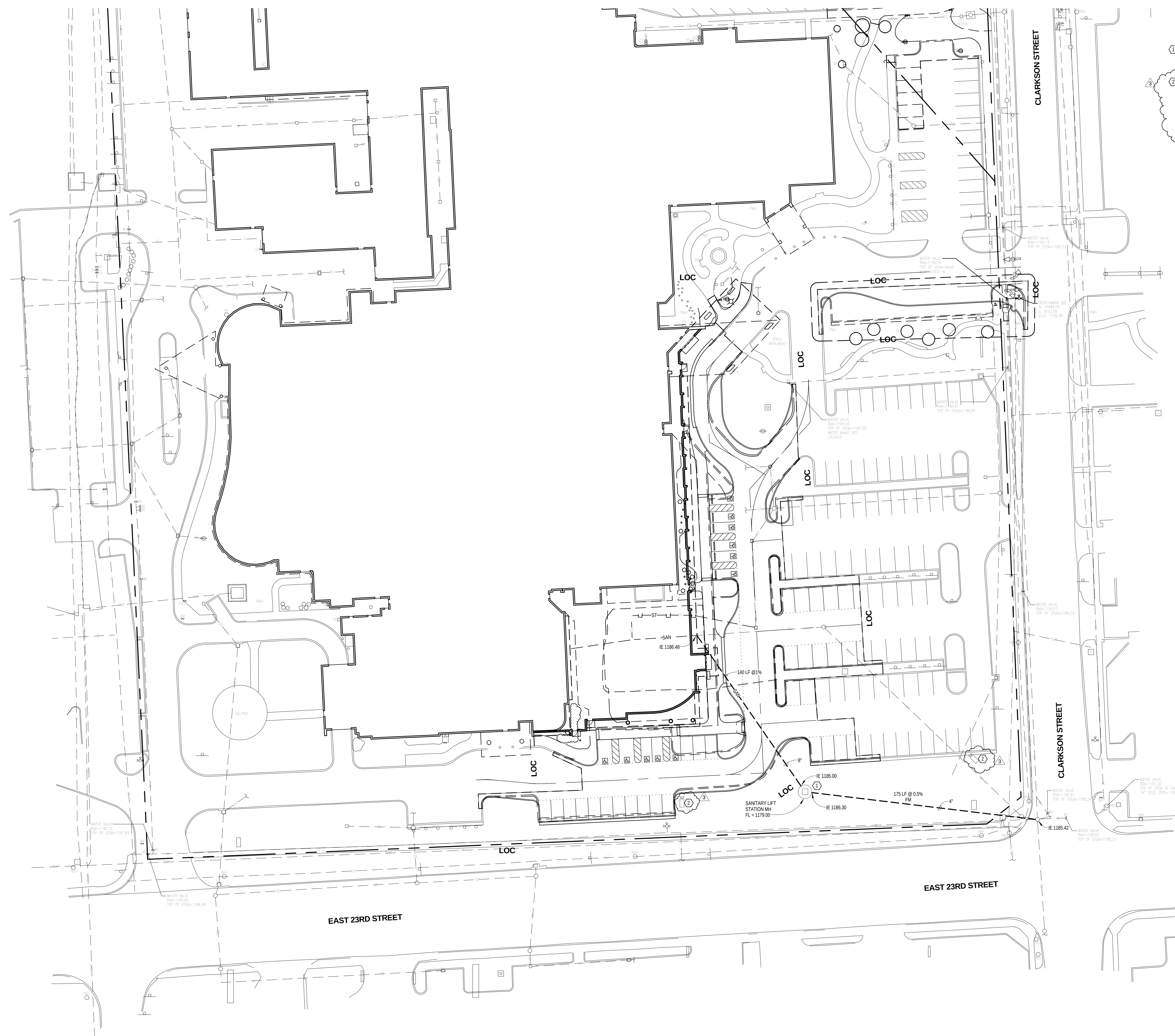


MECHANICAL AND ELECTRICAL SITE PLAN

SCALE 1" = 30'-0"

MES-101

CONSTRUCTION DOCUMENTS



SHEET NOTES

- ① PROVIDE POWER CONNECTION TO SEWAGE PUMPS. REFER TO EQUIPMENT CONNECTION SCHEDULE ON SHEET E-01. CIRCUIT TO MOTOR CONTROL CENTER BASE IN BASEMENT FILE STORAGE ROOM 0020. PROVIDE GFCI RECEPTACLE MOUNTED ON SAME PANEL AS CONTROL BOX. PROVIDE 120V, 20 AMP BREAKER FOR EACH OF THE TWO SEWAGE PUMP AND RECEIPTERS SUPPLYING TO THE BACT-BIOREACTOR SYSTEMS FROM ROOM 0020.
- ② PROVIDE DATA CABLE AND CABLE END CONNECTOR WITH 45 SLACK WITH HANDLE AT EACH END OF EXISTING POLE AND WIRE RACEWAY TO BE USED BY THE CONTRACTOR TO RUN CABLE WITH OWNER. INTEGRATED SYSTEMS GROUP WILL PROVIDE CAMERA UNDER SEPARATE DIRECT CONTACT WITH OWNER. POLE IS EXISTING CONDUIT PATHWAY BACK TO THE BUILDING INTERIOR IS PROVIDED. SEE DRAWING FOR LOCATION OF POLE AND THE PACKAGE (REFER TO THAT BID PACKAGE FOR CLARIFICATION). PROVIDE SURFACE MOUNTED CONDUIT PATHWAY FROM EXISTING POLE HANDLE TO INGROUPL FLOOR BOX. INGROUPL FLOOR BOX IS PROVIDED AND SHALL BE INSTALLED IN THE BUILDING INTERIOR. THE BUILDING IS WITHIN THE BASEMENT AND WILL REQUIRE THE USE OF J-HOOKS FOR CABLE PROTECTION TO THE MECHANICAL ROOM.

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