

Invitation for Bids

**Leahi Hospital Young Building Sewer Line Replacement
26L-0205**

The Hawaii Health Systems Corporation (HHSC) Oahu Region is requesting bids from qualified companies for the replacement of existing sewer lines of the Young Building at Leahi Hospital located at 3675 Kilauea Ave., Honolulu, HI 96816.

The IFB may be obtained electronically from the following website:
<http://leahi.hhsc.org/procurement/notices/>

A site visit is scheduled for February 17, 2026 at 10:30 a.m. All interested companies shall meet in the Leahi Hospital Parking Lot entrance area. The deadline for submission of written/mailed questions pertaining to the IFB is February 24, 2026.

All bids must be received by HHSC by March 10, 2026, 2:00 p.m. Hawaii Standard Time. All bids shall be sent digitally to oahucip@hhsc.org. E-mail bids not received by deadline will be disqualified for consideration. No exceptions will be made even if network provider or software (e.g. MS Outlook) delays delivery. Please note that large files (>10MB) may experience network delivery issues.

Addenda to the IFB will be posted on the website listed above.

For any inquiries, please contact Michael Nakada, at (808) 733-7951 or by email at mnakada@hhsc.org.

Leahi Hospital
3675 Kilauea Ave.
Honolulu, HI 96816

TABLE OF CONTENTS

	<u>Page No.</u>
SECTION 1: ADMINISTRATION	3
SECTION 2: SCOPE OF SERVICES	7
SECTION 3: BID PROPOSAL AND GENERAL CONDITIONS.....	8
SECTION 4: BID EVALUATION AND AWARD	12
APPENDIX A: BID TRANSMITTAL COVER LETTER	
APPENDIX B: BID PROPOSAL	
APPENDIX C: SPECIFICATIONS and DRAWINGS	

SECTION 1
ADMINISTRATION

1.0 INTRODUCTION

This Invitation for Bid (hereinafter “IFB”) is issued by the Hawaii Health Systems Corporation (hereinafter “HHSC”), a public body corporate and politic and an instrumentality and agency of the State of Hawaii. All procedures and processes will be in accordance with HHSC Oahu Region policy and procedures.

In order for HHSC to accept Bidder’s response in a timely manner, please thoroughly read this IFB and follow instructions as presented.

1.1 IFB TIMETABLE AS FOLLOWS

The timetable as presented represents HHSC’s best estimated schedule. If an activity of the timetable, such as “Closing Date for Receipt of Bids” is delayed, the rest of the timetable dates may be modified. BIDDER will be advised, by addendum to the IFB, of any such modifications to the timetable. Contract start date will be subject to the issuance of a Notice to Proceed.

ACTIVITY		SCHEDULED DATES
1.	IFB Public Announcement	February 10, 2026
2.	Pre-Bid Orientation Leahi Hospital parking lot entrance 10:30 a.m.	February 17, 2026
3.	Closing Date for Receipt of Questions	February 24, 2026
4.	Closing Date for Receipt of Bids 2:00 p.m.	March 10, 2026
5.	Contractor Selection/Award Notification (on/about)	March 11, 2026
6.	Contract Start Date (on/about)	March 25, 2026

1.2 AUTHORITY

This IFB is issued following the provisions of Chapter 323F, Hawaii Revised Statutes (HRS), and its administrative rules. All BIDDERS are charged with presumptive knowledge of all requirements of the cited authorities. Submission of a valid executed bid by any BIDDER shall constitute admission of such knowledge on the part of such BIDDER.

1.2.1 IFB ORGANIZATION

This IFB is organized into four sections:

SECTION 1: ADMINISTRATIVE
Provides information regarding administrative requirements.

SECTION 2: SCOPE OF SERVICES
Provides a detailed description of goods and/or services to be provided and delineates HHSC and CONTRACTOR responsibilities.

SECTION 3: BID FORMS AND GENERAL CONDITIONS
Describes the required format and content for submission of the bid.

SECTION 4: BID EVALUATION AND AWARD
Describes how bids will be evaluation and procedures for selection and award of contract.

1.3 HEAD OF PURCHASING AGENCY (HOPA)

The HOPA for HHSC, or designee, is authorized to execute any and all Agreements (Contracts), resulting from this IFB.

The HOPA for this IFB is:

Sean Sanada
Regional Chief Executive Officer
Hawaii Health Systems Corporation

1.4 DESIGNATED OFFICIALS

The officials identified in the following paragraphs have been designated by the HOPA as HHSC's procurement officials responsible for execution of this IFB, award of Agreement and coordination of CONTRACTOR's satisfactory completion of contract requirements.

1.4.1 ISSUING OFFICER

The Issuing Officer is responsible for administrating/facilitating all requirements of the IFB solicitation process and is the **sole point of contact** for BIDDER from date of public announcement of the IFB until the selection of the successful BIDDER. The Issuing Officer will also be responsible for contractual actions throughout the term of the contract. For purposes of this IFB, the designated Issuing Officer is:

Michael Nakada
HHSC Oahu Region
e-mail: mnakada@hhsc.org
phone: (808) 733-7951

1.5.1 CHARTER

HHSC is a public body corporate and politic and an instrumentality and agency of the State of Hawaii. HHSC is administratively attached to the Department of Health, State of Hawaii and was created by the legislature with passage of Act 262, Session Laws of the State of Hawaii 1996. Act 262 affirms the State's commitment to provide quality health care for the people in the State of Hawaii, including those served by small rural facilities.

1.5.2 STRUCTURE AND SERVICES

HHSC is organized into four operational regions and provides a broad range of healthcare services including acute, long term, rural and ambulatory health care services. As the fourth largest public health system in the country, HHSC is the largest provider of healthcare in the Islands, other than on Oahu. This solicitation is for the Oahu Region.

1.5.3 MISSION

The mission of HHSC is to provide and enhance accessible, comprehensive health care services that are quality-driven, customer-focused and cost-effective.

1.6 FACILITY INFORMATION

Detailed information pertaining to HHSC facilities is located at <http://www.hhsc.org>.

1.7 SUBMISSION OF QUESTIONS

Questions must be submitted in writing via electronic mail, facsimile or post mail to the Issuing Officer no later than the “Closing Date for Receipt of Questions”, identified in paragraph 1.1 in order to generate an official answer. All written questions will receive an official written response from HHSC and become addenda to the IFB.

IMPORTANT

BIDDER may request changes and/or propose alternate language to the HHSC General and Special Terms and Conditions (<https://www.hhsc.org/procurement/>) during this phase only. All requests will be presented to the HHSC Legal Department for review. No requests to change the HHSC General or Special Terms and Conditions will be entertained after the bids have been submitted or during the contracting process. All written questions and/or approved changes will receive an official written response from HHSC and shall be recorded as addenda to the IFB.

HHSC reserves the right to reject or deny any request(s) made by BIDDER.

Responses by HHSC shall be due to the BIDDER prior to notice of award.

Impromptu, un-written questions are permitted and verbal answers will be provided during pre-bid conferences and other occasions, but are only intended as general direction and will not represent the official HHSC position. The only official position of HHSC is that which is stated in writing and issued in the IFB as addenda thereto.

No other means of communication, whether oral or written, shall be construed as a formal or official response/statement and may not be relied upon.

SEND QUESTIONS TO:

Michael Nakada, Issuing Officer
e-mail: mnakada@hhsc.org

1.8 SOLICITATION REVIEW

BIDDER should carefully review this solicitation for defects and questionable or objectionable matter. Comments concerning defects and questionable or objectionable matter, **excluding requests to revise the General or Special Conditions**, must be made in writing and should be received by the Issuing Officer, no later than the “Closing Date for Receipt of Bids” as identified in Section 1.1. This will allow issuance of any necessary amendments to the IFB. It will also assist in preventing the opening of bids upon which award may not be made due to a defective solicitation package.

1.9 IFB AMENDMENTS

HHSC reserves the right to amend the IFB any time prior to the deadline date of the IFB. IFB Amendments will be in the form of addenda.

1.10 CANCELLATION OF IFB

The IFB may be canceled when it is determined to be in the best interests of HHSC.

1.11 PROTESTS

Any protest shall be submitted in writing to the HOPA as noted below.

A protest based upon the content of the solicitation shall be submitted in writing within five (5) working days **after** the aggrieved individual/business knows or should have known of the facts giving rise thereto; provided further that the protest shall not be considered unless it is submitted in writing prior to and not later than the “Closing Date for Receipt of Bid” identified in section 1.1.

A protest of an award or proposed award shall be submitted within five (5) working days after the posting of award of the contract. The notice of award, if any, resulting from this solicitation shall be posted at the following website:
<http://leahi.hhsc.org/procurement/notices/>

Any and all protests shall be submitted in writing to the HOPA, as follows:

Sean Sanada
Hawaii Health Systems Corporation
Oahu Region
3675 Kilauea Avenue
Honolulu, Hawaii 96816

1.12 PERFORMANCE AND PAYMENT BOND

Performance and payment bonds shall be required for contracts \$25,000 and higher. At the time of the execution of the contract, the successful Bidder shall file good and sufficient performance and payment bonds, each in an amount equal to one hundred percent (100%) of the amount of the contract price unless otherwise stated in the solicitation of bids.

1.13 SPECIALTY CONTRACTOR’S LICENSE

A. Contractor shall be solely responsible to ensure that all specialty licenses required to perform the Work are covered by the Contractor and/or its subcontractor(s).

1.14 WORKING HOURS

- A. Regular working hours for this project shall take place between the hours of 8:00 AM to 4:30 PM Monday through Friday, excluding State Holidays, unless otherwise noted or restricted.
- B. The Contractor may be given approval to work beyond the regular hours including Saturdays, Sundays, State Holidays, night work, or after hours under the provisions of the GENERAL CONDITIONS.

1.15 SPECIAL PROCEDURES DURING BIDDING

- A. All bids shall be submitted to the Issuing Officer.
- B. All questions regarding the IFB shall be submitted, in writing, to the Issuing Officer, who shall review the questions and issue any responses via Addendum. Only information received by Addendum shall be binding.
- C. Any visitation to the site to examine the scope of work shall be requested through the HHSC Representative. Disruption of facility operations shall not be permitted.

SECTION 2
SCOPE OF SERVICES

2.0 INTRODUCTION

LEAHI HOSPITAL YOUNG BUILDING SEWER LINE REPLACEMENT

Work for this project shall include, but is not limited to the replacement of existing sewer lines in the Young Building at Leahi Hospital, and miscellaneous work as indicated on the drawings.

2.1 CONTRACT PERIOD

The work shall be completed within **150** consecutive calendar days from the Notice to Proceed (NTP).

2.2 SCOPE OF SERVICES

- A. The CONTRACTOR shall complete the work specified in the specifications and drawings in APPENDIX C.
- B. Qualifications. The CONTRACTOR shall have:
 - 1. A current and valid license to perform the scope of work.
 - 2. Have been in business for the past three (3) consecutive years.
 - 3. A permanent, on-island office location in conducting business which is accessible to telephone calls. An answering service is not acceptable.
- C. HOSPITAL shall provide:

Technical Representatives who shall have the authority to oversee the successful completion of contract requirements, including monitoring, coordinating and assessing CONTRACTOR performance; placing requests for services; and, approving completed work/services with verification of same for CONTRACTOR's invoices. Technical Representatives will also serve as points of contact for "technical" matters throughout the term of the contract.

SECTION 3
Bid Forms and General Conditions

General Instructions for Completing Forms

- *Bids shall be submitted in the prescribed format outlined in this IFB*
- *No supplemental literature, brochures or other unsolicited information should be included in the bid packet.*
- *A written response is required for each item unless indicated otherwise.*

3.0 Bid Form

The bid form must be completed and submitted to HHSC by the required due date and time, and in the form prescribed by the HHSC. Facsimile transmissions shall not be accepted.

Interested bidders shall submit their bid under the interested bidder's exact legal name that is registered with the Department of Commerce and Consumer Affairs and shall indicate this exact legal name in the appropriate space on page 1 of the bid form. Failure to do so may delay proper execution of the Contract.

Interested bidders shall certify its ability to provide services on March 25, 2026 or upon execution of the Contract agreement by both parties. The Hospital reserves the right to apply liquidated damages for the delay in Contract execution on the part of the Contractor.

The interested bidder's authorized signature shall certify bid documents. If the Bid Form on Appendix A is unsigned the bid shall be automatically rejected.

The option to extend the Contract shall be at the sole discretion of the Hospital and determined to be in the best interests of the State.

3.1 Bid Security

All lump sum bids of \$25,000 and higher, or lump sum base bids including alternates of \$25,000 and higher shall require a bid security.

- a. The bid security shall be in an amount equal to at least five percent (5%) of the lump sum bid or lump sum base bid including alternates or in an amount required by the terms of the federal funding, where applicable.

3.2 General Conditions

The State of Hawaii INTERIM GENERAL CONDITIONS, dated August 1999, and AMENDMENTS shall be read by the Contractor as they form a part of the Agreement to be entered into between the Contractor and HHSC. The Interim General Conditions are not physically included in these specifications, but are included by reference. Copies of the INTERIM GENERAL CONDITIONS may be obtained from the Division of Public works, Department of Accounting and General Services, State of Hawaii at the following website:
http://hawaii.gov/pwd/construction_bids/Members/qc/gen_cond_constr

The State of Hawaii General Conditions are hereby amended as follows:

- a. The following terms specified in Section 1 are hereby defined:
 - i) Bidder shall have the same definition as Contractor.
 - ii) Comptroller shall be the Chief Financial Officer at HHSC or his authorized representative.
 - iii) Department shall be HHSC or its designee.
 - iv) Engineer shall be the person so designated by HHSC.
 - v) State shall be HHSC or its designee.
- b. Section 1.20 and 1.25 replace "State of Hawaii" with "State".
- c. The last two sentences of the third paragraph of Section 2.1.1.2, in the Interim General Conditions is deleted and is replaced with the following:

" If the notice is faxed, the time of receipt by the CEO's fax machine shall be official. The submittal of intention to bid via fax is acceptable only to this office."
- d. Section 2.1.2.1: second sentence is hereby deleted in its entirety.
- e. Last sentence of paragraph 2.1.2.3 of the Interim General Conditions is amended to read as follows:

"Failure to submit either the required tax clearance certificate or Bid Form will be sufficient grounds for HHSC to refuse to receive or consider the prospective bidder's proposal."
- f. The addresses specified in Section 2.6.1 of the Interim General Conditions shall be changed to Leahi Hospital 3675 Kilauea Avenue Honolulu Hawaii 96816.
- g. Sections 2.10 through 2.11 are hereby deleted in their entirety.
- h. Paragraph 3.8.1 of the Interim General Conditions is amended to read as follows:

"The contract shall be signed and forwarded to HHSC (Contracts Office), by the successful bidder all within three (3) days of receipt of the contract. The performance and payment bonds shall be received by HHSC (Contracts Office) within ten (10) calendar days after the bidders is awarded the contract. No proposal or contract shall be considered binding until the contract has been fully and properly executed by all parties thereto."
- i. In paragraph 3.9.2 of the Interim General Conditions, "ten (10) calendar days after such award or within such further time as the Comptroller may allow" shall be replaced with, "the time allowed in the previous section."
- j. Section 4.1: the words "accepted bid" is deleted from the first sentence.
- k. Section 4.9.3: the words "submission of bids" is replaced with the words "execution of this contract".
- l. Section 5.5: the last sentence is hereby deleted in its entirety and replaced with the following:

“In the event of conflict among the Contract Documents, the order of precedence is listed in paragraph 5 of this contract and is further detailed in the following subparagraphs:”

- m. Sections 5.5.1 and 5.5.2 are hereby deleted in their entirety.
- n. Section 5.8.1: “twenty-four (24)” is hereby changed to “three (3)”.
- o. Section 5.11 is hereby deleted in its entirety.
- p. Section 5.12.4 is hereby deleted in its entirety.
- q. Section 7.3.7.4, subparagraphs a and b: Replace “If the project falls within the State University System, The University of Hawaii” with “HHSC.”
- r. Section 7.4.1 is hereby deleted in its entirety and replaced with the following:

“The Contractor shall prepare, process, obtain, and pay for all permits necessary for the proper execution of the work.”
- s. Section 7.7.2 is amended to read as follows: “The wage rate schedule is attached to this contract.”
- t. Sections 7.14.2, 7.19.2, and 7.19.4: delete “Departments and Agencies and their” and insert “directors” between “officers” and “representatives”.
- u. Section 7.14.4 is hereby added and reads as follows:

“Contractor warrants that it and none of its employees, agents or subcontractors performing services or providing goods pursuant to this Agreement are excluded from participation in federal health care programs, as defined in the Social Security Act (section 1128 and 1128A), and other federal laws and regulations relating to health care. HHSC reserves the right to verify that the above warranty is true and to immediately cancel this Agreement in the event it is violated.”
- v. Section 7.15 delete “and its Departments and Agencies”.
- w. Section 7.21.8.6 — Delete the word “bad” before the words “weather day conditions.”
- x. Section 7.35.1: the last word “earlier” is changed to “later”.

3. CORPORATE COMPLIANCE PROGRAM. A description of the Corporate Compliance Program of HHSC is posted on the HHSC Internet (www.hhsc.org). The CONTRACTOR, by signing this contract, acknowledges that it has read said description, and that the CONTRACTOR knows of the fact and substance of the Corporate Compliance Program, which governs operations at all facilities of the HHSC. The CONTRACTOR understands and agrees that employees, agents, and contractors performing any services at any of the HHSC facilities shall be fully subject to such Corporate Compliance Program, as may be amended from time to time, as well as all federal program requirements and applicable policies and procedures of HHSC and its facilities. The Corporate Compliance Program requires periodic training, including an orientation program, of all people who provide financial, business office, personnel, coding, medical records information systems and clinical services in the facility. The CONTRACTOR agrees to cause its employees, agents, and contractors who provide any services at any financial, business office, personnel, coding, medical records information systems and clinical services at any of the HHSC facilities to participate in the orientation and training programs.

4. CONFIDENTIAL INFORMATION. It is acknowledged and agreed that all of the trade secrets, business plans, marketing plans, know how, data, contracts, documents, scientific and medical concepts, billing records, personnel records, medical records of any kind, and referral resources for existing or future services, products, operations, management, business, pricing, financial status, valuations, business plans, goals, strategies, objectives and agreements of HHSC and any of its facilities, affiliates or subsidiaries, and all patient information, in any form, whether written, verbal, or electronic, are confidential (“Confidential Information”); provided, however, that Confidential Information, with the exception of patient information, shall not include information that is in the public domain.
5. CONTRACTOR EXCLUSION FROM FEDERAL PROGRAMS. CONTRACTOR warrants that it and none of its employees, agents or subcontractors performing services or providing goods pursuant to this Agreement are excluded from participation in federal health care programs, as defined in the Social Security Act (section 1128 and 1128A), and other federal laws and regulations relating to health care. HHSC reserves the right to verify that the above warranty is true and to immediately cancel this Agreement in the event it is violated.
6. CAMPAIGN CONTRIBUTIONS BY STATE AND COUNTY CONTRACTORS. CONTRACTORS are hereby notified of the applicability of Section 11-205.5, HRS, which states that campaign contributions are prohibited from specified State or county government contractors during the term of the contract if the contractors are paid with funds appropriated by a legislative body. For more information, please consult with the Campaign Spending Commission, or visit its website, www.hawaii.gov/campaign.

(END OF SECTION)

SECTION 4
BID EVALUATION AND AWARD

4.0 Bid Evaluation

Each bid offer will be reviewed for exact conformity of the requirements in the IFB, known as a responsible bid. Information provided in/with the bid offer will be used to determine whether the interested bidder has the technical and financial capacity to deliver the goods or services, known as a responsive bid.

4.1 Method of Award

- A. The contract will be awarded to the lowest responsive and responsible Bidder whose bid (including any alternates which may be selected) meets the requirements and criteria set forth in the solicitation documents.
- B. In the event the total lump sum bid of all bidders exceeds the project control budget, HHSC reserves the right to make an award to the apparent Low Bidder if additional funds are available or by reducing the scope of work through negotiation.

4.2 Contract Execution

Upon receipt of the Contract document, the CONTRACTOR shall have ten (10) business days to execute and return the Contract to the Issuing Officer. Explicit execution instructions will accompany the Contract. A copy of the fully executed Contract will be provided the CONTRACTOR within seven (7) business days of Contract execution.

Award of Contract may be withdrawn if the CONTRACTOR is unable to meet Contract execution requirements.

(END OF SECTION)

SAMPLE BID TRANSMITTAL COVER LETTER

Dear Mr. Nakada,

(Name of Business) proposes to provide any and all goods and services as set forth in the “Invitation for Bid” for Leahi Hospital Young Building Sewer Line Replacement IFB No. 26L-0205, for which fees/costs have been set. The fees/costs offered herein shall apply from XXX, 2026 to XXX, 2026.

It is understood and agreed that (Name of Business) have read HHSC’s Scope of Services described in the IFB and that this bid is made in accordance with the provisions of such Scope of Services. By signing this bid, (Name of Business) guarantee and certify that all items included in this bid meet or exceed any and all such Scope of Services. (Name of Business) agree, if awarded the contract, to provide the goods and services set forth in the IFB; and comply with all terms and conditions indicated in the IFB; and at the fees/costs set forth in this bid. The following individual(s) may be contacted regarding this bid: _____

Other information:

Address:		Federal Tax ID #:	
Phone No.:		Hawaii GET ID #:	
E-mail address:			

(Name of Business) is a: Sole Proprietor Partnership Corporation Joint Venture Other (Specify) _____

State of Incorporation is: (Specify) _____

Year of Business started: _____

The exact legal name of the business under which the contract, if awarded, shall be executed is: _____

(Authorized Bidder’s Signature, Printed Name/Title; Corporate Seal or Notarized)

IFB No. 26L-0205
Leahi Hospital Young Building Sewer Line Replacement

BID FORM

After carefully examining the bid documents, drawings and specifications identified above, the Bidder proposes to furnish at its own expense all necessary labor, materials, tools and equipment to complete the work according to the true intent and meaning of the drawings and specifications, all for the Lump Sum Base Bid of:

_____ DOLLARS (\$ _____)

(Schedule of Values must be submitted with the Bid).

Respectfully Submitted:

Signature / Printed Name

Date

Title

OTHER CONDITIONS

1. Bidder agrees to liquidated damages as specified.
2. By submitting this proposal, the Bidder is declaring that its firm has not been assisted or represented on this matter by an individual who has, in a County capacity, been involved in the subject matter of this contract in the past two years;
3. Anti-collusion certification. In accordance with HAR 3-122-192, by submitting this proposal, the Bidder is declaring that the price submitted is independently arrived at without collusion.
4. Certification for Safety and Health Program for bids in excess of \$100,000. In accordance with HRS 396-18, the Bidder certifies that its organization will have a written safety and health plan for this project that will be available and implemented by the Notice to Proceed date of this project. Details of the requirements of this plan may be obtained from the Department of Labor and Industrial Relations, Occupational Safety and Health Division (HIOSH); and
5. Upon the acceptance of the proposal by the HHSC, the Bidder must enter into and execute a contract for the same and furnish a Performance and Payment bond, as required by law.

RECEIPT OF ADDENDA

Receipt of the following addenda issued by HHSC is acknowledged by the date (s) of receipt indicated below:

Addendum No. 1 _____
Date

Addendum No. 3 _____

Addendum No. 2 _____

Addendum No. 4 _____

as required by law.

Respectfully submitted,

Name of Company, Joint Venture or Partnership

License

By _____
Signature (*4)

Title _____

Date: _____

(CORPORATE SEAL)
(*5)

NOTES:

1. Surety bond underwritten by a company licensed to issue bonds in this State;
2. Legal tender; or
3. A cashier's or a certified check accepted by, and payable on demand to the HHSC by a bank, a savings institution, or credit union insured by the Federal Deposit Insurance Corporation.
 - a. These instruments may be utilized only to a maximum of \$100,000.
 - b. If the required security or bond amount totals over \$100,000, more than one instrument not exceeding \$100,000 each and issued by different financial institutions shall be accepted.
4. Please attach to this page evidence of the authority of this officer to submit bids on behalf of the Company, and also the names and residence addresses of all officers of the Company.
5. Fill in all blank spaces with information asked for or bid may be invalidated. PROPOSAL MUST BE INTACT. MISSING PAGES MAY INVALIDATE YOUR BID.

END OF BID FORM

APPENDIX C

S P E C I F I C A T I O N S

FOR

FURNISHING LABOR AND MATERIALS

REQUIRED FOR

**LEAHI HOSPITAL
YOUNG BUILDING SEWER LINE REPLACEMENT**

3675 KILAUEA ST.
HONOLULU, OAHU, HAWAII

TMK: 3-2-031:001

FOR THE

HAWAII HEALTH SYSTEMS CORPORATION (HHSC)

STATE OF HAWAII

MECHANICAL ENGINEER: MECHANICAL ENTERPRISES, INC.
ARCHITECT: CKM ARCHITECTS, LLC

DECEMBER 2025

TABLE OF CONTENTS

TABLE OF CONTENTS 1

DIVISION 0 – BIDDING AND CONTRACT REQUIREMENTS
Section 00210 – INSTRUCTIONS TO BIDDERS 1-7
Section 00800 – SPECIAL PROVISIONS..... 1-4

DIVISION 1 - GENERAL REQUIREMENTS
Section 01019 - GENERAL PROJECT REQUIREMENTS 1-9
Section 01100 – SUMMARY 1-5
Section 01140 – WORK RESTRICTIONS 1
Section 01300 - SUBMITTALS 1-4
Section 01577 - POLLUTION CONTROL 1-2

DIVISION 2 - SITE WORK
Section 02070 – SELECTIVE DEMOLITION 1-6
Section 02075 – CONCRETE CORING..... 1

DIVISION 3 - CONCRETE (NOT USED)
DIVISION 4 - MASONRY (NOT USED)
DIVISION 5 - METAL
Section 05500 – METAL FABRICATION 1

DIVISION 6 - WOOD AND PLASTICS (NOT USED)
DIVISION 7 - THERMAL AND MOISTURE PROTECTION
Section 07900 – JOINT SEALANTS 1

DIVISION 8 - DOORS AND WINDOWS (NOT USED)
DIVISION 9 - FINISHES
Section 09250 – GYPSUM WALLBOARD 1
Section 09510 – ACOUSTICAL CEILINGS 1
Section 09900 – PAINTING 1
Section 09952 – WALL COVERING 1

DIVISION 10 - SPECIALTIES (NOT USED)
DIVISION 11 - EQUIPMENT (NOT USED)
DIVISION 12 - FURNISHINGS (NOT USED)
DIVISION 13 - SPECIAL CONSTRUCTION (NOT USED)
DIVISION 14 - CONVEYING SYSTEMS (NOT USED)

DIVISION 15 – MECHANICAL
Section 15000 - GENERAL MECHANICAL REQUIREMENTS 1-9
Section 15400 - PLUMBING 1-7

DIVISION 16 – ELECTRICAL (NOT USED)

END OF TABLE OF CONTENTS

DIVISION 0 – BIDDING AND CONTRACT REQUIREMENTS

SECTION 00210 - INSTRUCTIONS TO BIDDERS

PART 1 - GENERAL

1.01 GENERAL

- A. Only Bidders with the required contractor's license(s) are eligible to submit a Bid.
- B. Bidders (Contractors) shall be incorporated or organized under the laws of the State or be registered to do business in the State as a separate branch or division that is capable of fully performing under the contract. The following definitions are used in the solicitation documents.
 - 1. Hawaii Business §3-1222-112 HAR: A bidder who is registered and incorporated or organized under the laws of the State is a "Hawaii Business" and eligible for an award.
 - 2. Compliant non-Hawaii Business §3-122-112 HAR: A bidder not incorporated or organized under the laws of the State, but is registered to do business in the State and complies with or is exempt from the requirements of §3-122-112 HAR, is a "Compliant Non-Hawaii Business" and eligible for an award.
 - 3. Non-compliant Bidder: If a bidder is a non-Hawaii business and is not registered with the DCCA Business Registration Division (BREG) or cannot comply with §3-122-112 HAR, then the bidder is non-compliant and is ineligible for an award.
- C. Prospective Bidders shall submit their "Intention to Bid".
- D. Bidders shall submit the "Sealed Bid Form", bid bond (if required), tax clearances, Hawaii business certificates, and any other documents required by the bidding documents.
- E. The GENERAL CONDITIONS set forth additional terms and conditions for the bid and award process. The GENERAL CONDITIONS will be part of the contract documents by which Hawaii Health Systems Corporation (HHSC) and the bidder (prospective contractor) will be bound. Bidders are directed to the GENERAL CONDITIONS for contract and statutory requirements and for Bidding and Execution of the Contract Requirements. Bidders are also directed to "Section 00800 – Special Conditions" of these specifications for definitions and modifications to the GENERAL CONDITIONS.

1.02 OFFEROR(S) or BIDDER(S)

- A. The terms “Offeror” and “Bidder” are synonymous when used in this Section 00210 and other solicitation documents.

1.03 ADDENDA, CLARIFICATIONS

- A. Addenda: The HHSC may periodically issue an addendum that may increase or decrease the scope of work or contract time, provisions or conditions. HHSC will make the addenda available to the bidders at the Contracts Manager’s office. Bidders are responsible for the information contained in the addenda or bid clarification whether or not the Bidder receives the addenda or clarification.
- B. Bidders discovering an ambiguity, inconsistency or error when examining the bidding documents or the site and local conditions or bidders with questions or clarification requests shall send their written requests (email or fax notification are acceptable) to the Project Architect. Bidders shall comply with the following procedures:
 - 1. Identify each request with the Project Name.
 - 2. Indicate the appropriate section number, paragraph, drawing and detail number, schedule or other identifier.
 - 3. The request should be brief, concise, but complete enough to properly evaluate and determine the merits or non-merits of the question or request.
- C. Bidders shall make any requests for clarifications no later than fourteen (14) calendar days prior to the submission date for sealed bids. Refer to the “Notice to Bidders” for submission date.
- D. HHSC will respond to important requests or clarifications by way of addenda. HHSC may not address or respond to all bidders inquiries, if the HHSC determines the request is unimportant or not required to disseminate to all Bidders.

1.04 SEALED BID FORM (BID FORM)

- A. Bidder shall fill out the “Sealed Bid Form” completely. Write in ink or type. Besides the following paragraphs with instructions, there are supplemental Bidder’s Instructions within the text of the “Sealed Bid Form” and bidders shall comply with the instructions. Do not alter the “Sealed Bid Form”, and maintain the form intact.
- B. RECYCLED PRODUCT PREFERENCE is not applicable to this project.
- C. OTHER CONDITIONS: Bidder acknowledges and agrees to the provisions and certifications stated in this article.

- D. RECEIPT OF ADDENDA: Bidder shall fill in the appropriate dates any addenda were received.
- E. LISTING JOINT CONTRACTORS OR SUBCONTRACTORS:
1. Bidder shall complete the “Joint Contractors or Subcontractors List.” It is the sole responsibility of the bidder to review the requirements of this project and determine the appropriate specialty contractor’s licenses that are required to complete the project. Failure of the bidder to provide the correct names, license numbers, specialty class number, classification description and to indicate that the specialty contractor is required for this project, may cause the bid to be rejected.
 2. Bidder agrees the completed listing of joint contractors or subcontractors is required for the project and that the bidder, together with the listed joint contractors and subcontractors, have all the specialty contractor’s licenses to complete the work.
 3. Based on the Hawaii Supreme Court’s January 28, 2002 decision in Okada Trucking Co., Ltd. v. Board of Water Supply, et al., 97 Hawaii 450 (2002), the bidder as a general contractor (‘A’ or ‘B’ license) is prohibited from undertaking any work solely or as part of a larger project, which would require the bidder (‘A’ or ‘B’ general contractor) to act as a specialty (‘C’ license) contractor in any area in which the bidder (‘A’ or ‘B’ general contractor) has no specialty contractor’s license. Although the ‘A’ and ‘B’ contractor may still bid on and act as the “Prime Contractor” on an ‘A’ or ‘B’ project (See, *HRS §444-7 for the definitions of an “A” and “B” project*), respectively, the ‘A’ and ‘B’ contractor may only perform work in the areas in which they have the appropriate contractor’s license. The bidder (‘A’ or ‘B’ general contractor) must have the appropriate ‘C’ specialty contractor’s licenses either obtained on its own, or obtained automatically under HAR §16-77-32.
 4. General Engineering ‘A’ Contractors automatically have these ‘C’ specialty contractor’s licenses: C-3, C-9, C-10, C-17, C-24, C-31a, C-32, C-35, C-37a, C-37b, C-38, C-43, C-56, C-57a, C-57b, and C-61.
 5. General Building ‘B’ Contractors automatically have these ‘C’ specialty contractor’s licenses: C-5, C-6, C-10, C-12, C-24, C-25, C-31a, C-42a, and C-42b.
 6. The table that lists the specialty contractor’ classifications in the bid form is from the Department of Commerce and Consumer Affairs’ (DCCA) website www.state.hi.us/dcca/har/index.html. Bidders shall provide the appropriate classifications numbers and descriptions for any specialty contractors that are not included in the bid form and bidders are directed to the DCCA web site for the latest updated list.

7. Instructions to complete the Joint Contractors or Subcontractors List:
 - a. Determine the specialty contractor classification(s) required for this project and provide the complete firm name and license number of the joint contractor or subcontractor in the respective columns. If the bidder is a general contractor and providing the work of the required specialty contractor classification, fill in the bidder's (general contractor's) license number and name.
 - b. List only one joint contractor or subcontractor per required specialty contractor's classification.
 - c. For projects with alternate(s), fill out the respective "Joint Contractors or Subcontractors List for the Alternate(s)." Bidder shall determine the specialty contractor's classification and description required for the respective alternate. Bidders shall fill in the complete class number, class description, firm name and license number of the respective joint contractor or subcontractor. The bidder shall not include any joint contractor or subcontractor previously listed for the base bid.

- F. **COST AND TIME:** Bidder shall completely fill out the article and enter the cost for the Project Bid Price, and Alternates when provided. Bidder shall tabulate the Project Bid Price, and Alternates when provided, and the Bidders shall then enter the Total Lump Sum Bid Price. **BE SURE TO ENTER THE TOTAL LUMP SUM BID PRICE IN WORDS AND NUMERALS.** Refer to Bidder's Instructions located within the article.
 1. If provided, bidder shall fill in total costs for each alternate.
 2. The bidder is directed to the construction time information paragraph "B" for the list of contract times and dates which may include: contract duration, project start date, jobsite start date, jobsite completion, contract completion date and construction time for alternates. Bidder shall refer to "Section 01100" of these specifications for additional construction time information, as applicable.

- G. **SIGNATORY PAGE:** Bidder shall completely fill out article (page). Bidder shall indicate if it is a "Hawaii Business" or a "Compliant Non-Hawaii Business." Also, bidder shall refer to Bidder's Instructions located within the article.

1.05 EVALUATION CRITERIA

- A. EVALUTATING BIDS: The lowest responsive, responsible bid is determined by the following procedures:

1. The total lump sum bid price is adjusted to reflect the applicable preferences.
 - a. For projects with alternates, the total lump sum base bid price and alternates will be adjusted to reflect the applicable preferences.
2. Project control budget is established prior to the submission of bids.

1.06 METHOD OF AWARD

- A. The contract will be awarded to the lowest responsive and responsible Bidder whose bid (including any alternates which may be selected) meets the requirements and criteria set forth in the solicitation documents.
- B. In the event the total lump sum bid of all bidders exceeds the project control budget, HHSC reserves the right to make an award to the apparent Low Bidder if additional funds are available or by reducing the scope of work through negotiation.

1.07 OTHER CONDITIONS FOR AWARD

- A. The Chief Procurement Officer may reject any or all bids and waive any defects if the Chief Procurement Officer believes the rejection or waiver is in the best interest of HHSC.
- B. The Chief Procurement Officer may hold all bids up to 60 calendar days from the date bids were opened. Unless otherwise required by law, bids may not be withdrawn without penalty.
- C. The award of the contract is conditioned upon funds made available for the project (or projects if applicable).

1.08 COMPLIANCE WITH §3-122-112 HAR:

- A. As a condition for award of the contract and as proof of compliance with the requirements of 103D-310(c) HRS, the bidder shall meet the “Hawaii Business” or “Compliant non-Hawaii Business” requirements and shall provide the following documents:
 1. Department of Taxation (DOTAX) and the IRS tax clearance certificates.
 2. Department of Labor (DLIR) certificate of compliance.
 3. Department of Commerce and Consumer Affairs (DCCA), Business Registration Division (BREG) certificate of good standing.
 - a. A Hawaii business that is a sole proprietorship is not

required to register with the BREG and therefore not required to submit the DCCA, BREG "Certificate of Good Standing."

- B. The apparent three low bidders shall furnish the required documents to HHSC within seven calendar days from the bid opening date. If a valid certificate is not submitted on a timely basis for award of a contract, a bidder otherwise responsive and responsible may not receive the award. Bidder is responsible to apply for and submit the documents by the required deadlines.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.01 REQUIRED DOCUMENTATION FOR HAWAII BUSINESS OR COMPLIANT NON-HAWAII BUSINESS (§3-122-112 HAR)

- A. TAX CLEARANCE REQUIREMENTS (HRS Chapter 237): Bidder shall obtain a tax clearance certificate from the Hawaii State Department of Taxation (DOTAX) and the Internal Revenue Service (IRS). The certificate is valid for six months from the most recently approved stamp date on the certificate; the certificate must be valid on the date received by HHSC.
 - 1. DOTAX *TAX CLEARANCE APPLICATION* Form A-6 (Rev 2003) is available at DOTAX and IRS (State of Hawaii) offices or DOTAX website, and by mail or fax.
 - a. DOTAX website: <http://www.state.hi.us/tax/alphalist.html#a>
 - b. DOTAX forms by fax/mail: (808) 587-7572 or 1-800-222-7572
 - 2. Mail, fax or submit in person completed tax clearance application forms to the Department of Taxation, Taxpayer Services Branch or to the address listed on the application. Facsimile numbers are:
 - a. DOTAX: (808) 587-1488
 - b. IRS: (808) 539-1573
 - 3. DOTAX will return the form to the bidder. The bidder is reminded that it is responsible to submit the applications for the tax clearance directly to DOTAX or IRS and not to HHSC.
- B. DLIR CERTIFICATE of COMPLIANCE (HRS Chapter 383 - Unemployment Insurance, Chapter 386 - Workers' Compensation, Chapter 392 – Temporary Disability Insurance, and 393 – Prepaid Health Care): Bidder shall obtain a certificate of compliance from the Hawaii State Department of Labor and Industrial Relations (DLIR). The certificate

is valid for six months from the date of issue; certificates must be valid on the date received by HHSC.

1. *DLIR APPLICATION FOR CERTIFICATE OF COMPLIANCE WITH SECTION 3-122-112 HAR*, Form LIR#27 is available at DLIR website or at the neighbor island DLIR District Office.
 - a. DLIR website: <http://www.dlir.state.hi.us/LIR#27>
 2. Mail, fax or submit in person completed application form to the Department of Labor and Industrial Relations, Administrative Services Office at the address listed on the application.
 3. DLIR will return the form to the bidder. The bidder is reminded that it is responsible to submit the application for the certificate directly to DLIR and not to HHSC.
- C. DCCA CERTIFICATE OF GOOD STANDING: Bidder shall obtain a certificate of good standing issued by the Department of Commerce and Consumer Affairs (DCCA), Business Registration Division (BREG). The certificate of good standing is valid for six months from the date of issue; certificates must be valid on the date received by HHSC.
1. *DCCA CERTIFICATE OF GOOD STANDING* is available from the business registrations website or by telephone. Bidders are advised there are costs associated with registering and obtaining the certificate.
 - a. DCCA form website: <http://www.BusinessRegistrations.com>
 - b. DCCA telephone: (808) 586-2727, M - F 7:45 to 4:30 HST
 2. Submit the application per DCCA's requirements.
 3. DCCA will return the form to the bidder. The bidder is reminded that it is responsible to submit the application for the certificate directly to DCCA and not to HHSC.

END OF INSTRUCTIONS TO BIDDERS

SECTION 00800 - SPECIAL PROVISIONS

PART 1 - GENERAL

1.01 SUBSTITUTION REQUESTS

- A. Written substitution requests must be submitted with your Invitation for Bid (IFB) in accordance with IFG Section 3. All substitutions will be reviewed and approved in accordance with Section 6.3 Substitution of Materials and Equipment.
- B. Substitution requests by FAX are not acceptable.

1.02 PROJECT CONTACT PERSON

A. HHSC Representative

NAME: ~~Mr. Todd Nordstrom~~ Ronald Kurasaki
POSITION OR TITLE: CIP Coordinator
TELEPHONE NUMBER: ~~(808) 767-0526~~ (808) 497-9350
Email: ~~tnordstrom@hhsc.org~~ rkurasaki@hhsc.org

B. Consultant

NAME: Mr. Ross Tanaka
POSITION OR TITLE: Vice President
TELEPHONE NUMBER: (808) 275-4391
Email: RTanaka@meihawaii.com

1.03 OFFEROR'S RESPONSIBILITY FOR EXAMINING PLANS, SPECIFICATIONS AND SITE OF WORK

- A. Offerors herewith refers to sub-contractors, suppliers, manufacturer's representatives as well as contractors.

1.04 LIQUIDATED DAMAGES

- A. The time of completion for the Work shall be within 150 consecutive calendar days from the official commencement date of the Notice to Proceed (NTP).
- B. In accordance with the General Conditions, upon failure to complete Work or any portion of the Work within the time or times fixed in the contract or extension thereof, the Contractor shall pay liquidated damages to the Department in the amount of \$500.00 per calendar day of delay.
- C. In accordance with the General Conditions, PROJECT ACCEPTANCE DATE, for failure to correct punch list deficiencies, within the time or times fixed in the contract or extension thereof, the Contractor shall pay liquidated damages to HHSC, in the amount equal to ten percent (10%) of the liquidated damages per calendar day of delay.
- D. In accordance with the General Conditions FINAL SETTLEMENT OF THE CONTRACT, for failure to submit closing documents within the time or times fixed in the contract or extension thereof, it is agreed that the

Bidder shall pay liquidated damages to HHSC in the amount equal to five percent (5%) of the liquidated damages per calendar day of delay.

1.05 SPECIALTY CONTRACTOR'S LICENSE

- A. Contractor shall be solely responsible to assure that all the specialty licenses required to perform the Work are covered by the Contractor or its subcontractor(s).

1.06 WORKING HOURS

- A. The regular working hours for this project is from 8:00 AM to 4:30 PM Monday through Friday, excluding State Holidays, unless otherwise noted or restricted under "Section 01100". The Working Hours provisions of specification "Section 01100" shall govern over this article 1.06.
- B. The Contractor may be given approval to work beyond the regular hours including Saturdays, Sundays, State Holidays, night work, or after hours under the provisions of the GENERAL CONDITIONS, "Overtime And Night Work Section" and under specification "Section 01100".

1.07 SPECIAL PROCEDURES DURING BIDDING

- A. Bid documents will be available online and from the HHSC Representative's office, at Leahi Hospital, 3675 Kilauea St., Honolulu, HI, 96816.
- B. All bids shall be submitted to the HHSC Representative.
- C. All questions regarding the plans and specifications shall be submitted, in writing, to the HHSC Representative and Consultant. The HHSC Representative and Consultant will review the questions and issue any responses via Addendum. Only information received by Addendum shall be binding.
- D. All questions regarding the proposal or contractual requirements shall be submitted, in writing to the HHSC Representative. The HHSC Representative will review the questions and issue any responses via Addendum. Only information received by Addendum shall be binding.
- E. Any visitation to the site to examine the scope of work shall be requested through the HHSC Representative. Disruption of facility operations shall not be permitted.

1.08 PROCEDURES DURING CONSTRUCTION

- A. Upon issuance of the Notice to Proceed, the Contractor shall submit a work schedule for review and discussion. The work schedule shall be updated on a weekly or bi-weekly basis as directed by the HHSC Representative.
- B. On a weekly or bi-weekly basis, the Contractor shall conduct a progress meeting with the HHSC Representative. The meeting will discuss the

progress of the construction, discussion of problems, and review of outstanding issues. The Contractor shall conduct the meeting and prepare the meeting notes and minutes and distribute to all parties.

- C. During the construction, submittals and RFIs shall be submitted to the HHSC Representative with copy to the Consultant for review and action. To expedite the review, the Contractor may make submittals via email.
- D. Periodic requests for payment shall be submitted to the HHSC Representative for review and confirmation. Upon approved by the HHSC Representative, the request for payment will be forwarded to the appropriate HHSC Contracting Office for processing.
- E. Upon substantial completion of the project, the Contractor shall submit in writing to the HHSC Representative a request for a pre-final inspection. The Contractor shall have completed their own inspection and completed all noted discrepancies. Include with the request for the pre-final inspection a list of all outstanding work not completed or corrected.
- F. Upon conducting a pre-final inspection, the Consultant shall prepare a punchlist of noted discrepancies for the Contractor's remedial action. Additional items observed and noted by the HHSC Representative during the inspection shall also be included in the punchlist. A final inspection will be performed upon completion of all punchlist items.

1.09 PROJECT RESTRICTIONS

- A. The Contractor is informed that the facilities will be fully occupied and work shall be performed in close coordination with the HHSC Representative. Work shall be phased and may be limited to one sanitary riser or area at a time. Work will require the relocation of clients from the work area. Time shall be allocated for HHSC to conduct this relocation. Scheduling of the work shall be closely monitored and work performed to minimize the disruption to the remaining areas of the facility. All work schedules shall be approved by the HHSC Representative prior to starting.
- B. Staging and storage of materials on-site is limited and shall be coordinated with the HHSC Representative. Contractor may be required to store materials off-site at his own expense.
- C. Parking on-site is limited and may be restricted to only active delivery of materials and equipment. Coordinate with the HHSC Representative. If on-site parking not be available, the Contractor shall park off-site.
- D. The above restrictions shall be considered in the work of this project and shall be included in the Contractor's cost. No additional compensation shall be made for not considering these restrictions.

PART 2 - MATERIALS (Not Used)

PART 3 - EXECUTION

3.01 FINAL PAYMENT REQUIREMENTS

- A. In addition to the requirements in the GENERAL CONDITIONS "Final Payment" section, the contractor shall submit"
1. Tax clearance certificate from DOTAX and IRS, current within two months of the issuance date; and
 2. An originally signed Certificate of Compliance for Final Payment (SPO Form - 22, modified), affirming that the contractor remained in compliance with all laws as required by (§3-122-112 HAR). A contractor making a false affirmation shall be suspended and may be debarred pursuant to section 103D-702 HRS.

END OF SPECIAL PROVISIONS

DIVISION 1 – GENERAL REQUIREMENTS

SECTION 01019 - GENERAL PROJECT REQUIREMENTS

PART 1 - GENERAL

1.01 SUMMARY OF WORK

- A. Perform operations and furnish equipment, tools, materials, related items and labor necessary to execute, complete and deliver the Work as required by the Contract Documents.

1.02 DIVISION OF WORK

- A. The Division and Sections into which these specifications are divided shall not be considered an accurate or complete segregation of work by trades. This also applies to work specified within each section.
- B. Where devices, or items, or parts thereof are referred to in the singular, it is intended that such reference shall apply to as many such devices, items or parts as are required to properly complete the Work.
- C. Specifications and Drawings are prepared in abbreviated form and include incomplete sentences. Omission of words or phrases such as “the Contractor shall”, “as shown on the drawings”, “a”, “an”, and “the” are intentional. Omitted words and phrases shall be provided by inference to form complete sentences
- D. Specifying of interface and coordination in the various Specification Sections is provided for information and convenience only. Such requirements in the various Sections shall complement the requirements of this Section.

1.03 NOTIFICATION

- A. Contact the HHSC Representative at least five (5) working days prior to starting any onsite work.

1.04 SAFETY REQUIREMENTS

- A. The Hawaii Occupational Safety and Health Law, Chapter 396, Hawaii Revised Statutes, effective May 16, 1972, as amended, is applicable and made a part of the Contract. Carefully read and strictly comply with its requirements.
- B. Protect the facility personnel, students, and the public whenever power driven equipment is used. Ensure adequate safety precautions are used when operating any power-driven equipment.

1.05 PERFORMANCE AND COORDINATION

- A. Contractor shall be in charge of the Work and the Project Contract Limits, as well as the directing and scheduling of all work. Contractor shall include general supervision, management and control of the Work of this project, and in addition to other areas more specifically noted throughout the Specifications. Final responsibility for performance, interface, and completion of the Work and the Project shall be the Contractor's.
- B. Jobsite Administration shall be the responsibility of the Contractor. Provide a competent superintendent on the job and provide an adequate staff to execute the Work. In addition, all workers shall dress neatly and conduct themselves properly at all times. Loud abusive behavior, sexual harassment and misconduct will not be tolerated. Workers found in violation of the above shall be removed from the job site as directed by the HHSC Representative.
- C. HHSC will hold the Contractor liable for all the acts of Subcontractors and shall deal only with the Prime Contractor in matters pertaining to other trades employed on the job.
- D. Coordination: Provide project interface and coordination to properly and accurately bring together the several parts, components, systems, and assemblies as required to complete the Work.
 - 1. Provide interface and coordination of all trades, crafts and subcontracts. Ensure and make correct and accurate connections of abutting, adjoining, overlapping, and related work. Provide anchors, fasteners, accessories, appurtenances, and incidental items needed to complete the Work, fully, and correctly in accordance with the Contract Documents.
 - 2. Provide additional structural components, bracing, blocking, miscellaneous metal, backing, anchors, fasteners, and installation accessories required to properly anchor, fasten, or attach material, equipment, hardware, systems and assemblies to the structure.
 - 3. Provide caulking, sealing, and flashing as required to waterproof the building complete and as required to insulate the building thermally and acoustically. Include sealing, flashing, and related work as required to prevent moisture intrusion, air infiltration, and light leakage.
 - 4. Materials, equipment, component parts, accessories, incidental items, connections, and services required to complete the Work which is not provided by subcontractors shall be provided by the Contractor.

1.06 COOPERATION WITH OTHER CONTRACTORS

- A. HHSC reserves the right at any time to contract for or otherwise perform other or additional work within the Project Contract Limits. The Contractor of this project shall to the extent ordered by the HHSC Representative, conduct its work so as not to interfere with or hinder the progress or completion of the work performed by the HHSC or other contractors.

1.07 SUBMITTALS

- A. Furnish required submittals specified in this Section and in the Technical Sections. Submittals include one or more of the following: shop drawings, color samples, material samples, technical data, material safety data information, schedules of materials, schedules of operations, guarantees, certifications, operating and maintenance manuals, and field posted as-built drawings.

- B. Record Drawings: Field Posted As-Built Drawings, the intent of which is to record the actual in-place construction so that any future renovations or tie-ins can be anticipated accurately, shall be prepared and submitted by the Contractor. To accomplish this, the following procedure shall be followed by the Contractor:

1. A full-size set of field posted as-built drawings shall be maintained at the job site. All deviations from alignments, elevations and dimensions which are stipulated on the drawings and authorizations given by the HHSC Representative to deviate from the drawings shall be clearly and accurately recorded by the Contractor on this set of record drawings.
2. Changes shall be recorded immediately after they are constructed in place to assure they are not forgotten. Record the changes in red pencil and where applicable, refer to the authorizing document or Change Order. The field posted as-built drawings shall be made available to the Consultant and HHSC Representative at any time so that its clarity and accuracy can be monitored.
3. The words "FIELD POSTED AS-BUILT" shall be labeled on the title sheet and certified by the Contractor as to accuracy and completeness as shown below:

FIELD POSTED AS-BUILT

Certified By: _____ Date:
Contractor (Include name and company)

4. The words "FIELD POSTED AS-BUILT" shall be labeled on all sheets in the margin space to the right of the sheet number written from the bottom upward.

5. The Index to Drawings shall be revised with the label "FIELD POSTED AS-BUILT" for each sheet. The index shall conclude with the following note: "A COMPLETE SET CONTAINS _____ SHEETS" with the total number of sheets comprising the set to be placed in the blank.
6. Any "FIELD POSTED AS-BUILT" drawing which the HHSC Representative and/or Consultant determines does not accurately record the deviation may be corrected by the Consultant and the Contractor shall be charged for the services.
7. Submit the set of "FIELD POSTED AS-BUILT" drawings to the Consultant and notify the HHSC Representative no later than five (5) calendar days prior to the date of final inspection.
8. "AS-BUILT" drawings will be prepared by the design consultant using the "FIELD POSTED AS-BUILT". Both sets of drawings will be sent to the Contractor for review and approval. The Contractor shall retain the "FIELD POSTED AS-BUILT" drawings for records, sign the "AS-BUILT" set of drawings, indicating approval, and return the drawings in a timely manner to the Consultant and notify the HHSC Representative.

1.08 CONSTRUCTION SCHEDULE:

- A. The Construction Schedule completion date will be approved prior to award. The daily activities of the Construction Schedule will be reviewed within fifteen (15) calendar days after the Notice to Proceed or upon earlier written instruction by HHSC.
- B. The schedule shall be related to the entire project to the extent required by the Contract Documents, and shall provide for expeditious and practicable execution of the work. If requested by the HHSC Representative, the Contractor shall participate in a preliminary meeting to discuss the proposed schedule and requirements prior to submission of the schedule.
- C. Contractor shall prosecute the work according to the Schedule. The HHSC Representative shall rely on the reviewed Contractor's Schedule and regular updates for planning and coordination. The HHSC Representative's review of the Contractor's Construction Schedule does not relieve the Contractor of its obligation to complete the work within the allotted contract time. Nor does the review grant, reject or in any other way act on the Contractor's request for adjustment(s) to complete remaining contract work, or for claims of additional compensation. Such requests shall be processed in accordance with other relevant provisions of the contract.
- D. If the HHSC Representative issues a Field Order or Change Order or requires Force Account Work that affects the sequence or duration of work activities noted on the construction progress schedule, the

Contractor shall promptly update the schedule. This shall be accomplished by adding, deleting or revising the work activities noted, or changing the logic in the schedule to show the Contractor's plan for incorporating the change into the flow of work. All Change Orders and Time Extension requests that affect the construction schedule shall be evaluated based on their impact on the approved Construction Schedule.

1.09 MEETINGS

- A. Contractor shall meet with the HHSC Representative, weekly or other interval as determined, to discuss the progress of the Work.
- B. For each meeting, Contractor shall take meeting minutes and provide a list stating all items, work or material, which may cause a delay or have an impact on the project's contractual dates. The list shall be inclusive of items requiring action from all responsible parties such as outstanding submittal status, request for information (clarification), force account work, change order, and change proposals. The format of this list shall be at the Contractor's discretion, subject to the HHSC Representative's approval. Submit the list to all parties for discussions as a meeting agenda. Contractor shall provide a plan of corrective action for any item, which is delayed or expected to be delayed, where that item impacts the contractual dates.

1.10 PROJECT AND SITE CONDITIONS

- A. Project Contract Limits (Contract Zone Limits) shown on the drawings indicate only in general the limits of the work involved. Perform necessary and incidental work, which may fall outside of these demarcation lines. Confine construction activities within the Project Contract Limits and do not spread equipment and materials indiscriminately about the area.

1.11 SANITARY FACILITIES

- A. The Contractor shall be allowed to utilize on-site restrooms as directed by the HHSC Representative. The Contractor shall maintain the facility in clean and sanitary condition at all time. Failure to do so, may require the Contractor to provide portable temporary toilet facilities for the contractor's use.

1.12 CONSTRUCTION AIDS

- A. Provide construction aids and equipment required by construction personnel and to facilitate execution of the Work including: scaffolds, ladders, ramps, platforms, railings, and other such facilities and equipment.

PART 2 - PRODUCTS

2.01 QUALITY

- A. Materials, items, equipment and fixtures specified in the various Divisions and Sections shall be new unless otherwise specified.

2.02 STORAGE AND HANDLING

- A. Contractor shall supervise jobsite delivery and handling, and assign storage space for materials, items, equipment and fixtures of all trades. Contractor and installer are responsible for delivery, unloading, unpacking, handling, storage, distribution, installation and protection of its materials at the jobsite.
- B. Except as otherwise required by these specifications or by HHSC, determine and comply with manufacturer(s) recommendation(s) on product handling, storage and protection.
- C. Deliver products to the jobsite in manufacturer's original containers, with labels intact and legible. Maintain packaged material with seals unbroken and labels intact until time of use. Promptly remove damaged materials and unusable items from the jobsite, and promptly replace with material meeting the specified requirements, at no additional cost to the HHSC.
- D. The Consultant may reject as non-complying such material and products that do not bear identification satisfactory to the Consultant as to manufacturer, grade, quality, and other pertinent information.

PART 3 - EXECUTION

3.01 EXAMINING THE SITE

- A. Contractor and Subcontractors are expected to visit the site and make due allowances for difficulties and contingencies to be encountered. Compare contract documents with work in place. Become familiar, with existing conditions, the conditions to be encountered in performing the Work, and the requirements of the drawings and specifications.
- B. Verify construction dimensions and elevations indicated on the drawings before any construction begins. Any discrepancy shall be immediately brought to the attention of the Consultant, and any change shall be made in accordance with the Consultant's instruction. Contractor shall not be entitled to extra payment if it fails to report the discrepancies before proceeding with any work whether within the area affected or not.
- C. Obtain all field measurements required for the accurate fabrication and installation of the Work included in this Contract. Exact measurements are the Contractor's responsibility.

- D. Furnish or obtain templates, patterns, and setting instructions as required for the installation of all Work. All dimensions shall be verified in the field.
- E. The Contractor shall accept the site in the condition which exists at the time access is granted to begin the Work.
 - 1. Verify existing conditions and dimensions shown and other dimensions not indicated but necessary to accomplish the Work.
 - 2. Locate general reference points and take action to prevent their destruction. Lay out work and be responsible for lines, elevations and measurements and the work executed. Exercise precautions to verify figures and conditions shown on drawings before layout of work.
 - 3. Before starting the Work, the Contractor and each Subcontractor, shall verify governing dimensions and shall examine adjoining work on which the Contractor's work is in any way dependent. No additional compensation will be allowed on account of differences between actual measurements and dimensions shown. Submit differences discovered during the verification work to the Consultant for interpretations before proceeding with the associated work.

3.02 UTILITY SERVICE

- A. Electricity - Make arrangements with the facilities for temporary use of electricity for construction use.
- B. Telephone - Make arrangements with the utility companies for temporary telephone service for construction use or utilize cellular phone service.
- C. Water - Make arrangements for temporary water use with the facilities.

3.03 ENVIRONMENTAL

- A. General Contractor shall oversee that proper environmental conditions are met regarding temperature, humidity, lighting and ventilation.

3.04 PREPARATION AND PROTECTION

- A. Protection of Property: Continually maintain adequate protection of the Work from damage and protect all property, including but not limited to buildings, interior or exterior finishes, equipment, furniture, grounds, vegetation, material, utility systems located at and adjoining the job site. Repair, replace or pay the expense to repair damages resulting from Contractor's work, fault or negligence.
- B. Before starting work to be applied to previously erected constructions, make a thorough and complete investigation of such recipient surfaces and determine their suitability to receive required additional construction

and finishes. Contractor, at its expense, shall make whatever repairs and conditioning required to properly prepare such surfaces. Contractor shall coordinate the work to provide a suitable surface to receive following work.

- C. Commencement of work by any trade will be construed as acceptance of existing conditions and surfaces as being satisfactory for application of subsequent work, and full responsibility for finished results and assumption of warranty obligations under the Contract.
- D. Protect existing work in a manner to prevent damage including interior work from damage by vandals or the elements. Provide temporary protection. Use curtains, barricades, or other appropriate methods. Take positive measures to prevent breakage of glass and damage to plastic, aluminum and other finishes.
- E. Repairs and Replacements: In event of damage, promptly make replacements and repairs to the approval of the Consultant and/or HHSC Representative and at no additional cost to the Hospital. Additional time required to secure replacements and to make repairs will not be considered to justify an extension in the Contract Time or completion.

3.05 BARRICADE

- A. Erect temporary construction barricade(s) to prevent unauthorized persons from entering the project area and to the extent required by the HHSC Representative.
- B. Maintain temporary construction barricade(s) throughout the duration of the Work. During the course of the project, the HHSC Representative may require additional barricades be provided for the safety of the public. Contractor shall erect the additional barricade(s) at its own expense.

3.06 INSTALLATION

- A. Materials, items, fixtures required by the various Divisions and Sections of the Specifications shall be installed in accordance with Contract Documents, by workers specially trained and skilled in performance of the particular type of work, to meet guarantee and regulatory agency requirements. Should the drawings or specifications be void of installation requirements, install the materials, items, fixtures in accordance with the manufacturer's current specifications, recommendations, instructions, and directions, and/or best construction industry standards.

3.07 PATCHING

- A. General Contractor shall oversee cutting and patching of concrete, masonry, structural members and other materials where indicated on drawings and as job conditions require. Unless noted elsewhere in the Drawings and Specifications, no cutting or patching of existing or new

structural members will be permitted without previously notifying the HHSC Representative and Consultant.

- B. Patching materials and workmanship shall be of equal quality to that indicated on the drawings, specified for new work, and/or to match the construction of item to be patched.

3.08 CLEAN-UP

- A. Rubbish and debris resulting from work of the various Divisions and Sections of the specifications shall be collected and disposed of by the Contractor at legal disposal areas away from the project site. Clean up and remove from premises all debris accumulated from operations from time to time and as directed by the HHSC Representative. Permission to provide on-site trash containers shall be granted by HHSC and shall be placed where directed by the HHSC Representative.

END OF GENERAL PROJECT REQUIREMENTS

SECTION 01100 - SUMMARY

PART 1 - GENERAL

1.01 WORK COVERED BY CONTRACT DOCUMENTS

- A. Project Identification: The work shall generally consist of replacement of sanitary risers and horizontal branch piping with new sanitary piping, and miscellaneous work as indicated on the drawings and specified herein.
 - 1. Project Location: Leahi Hospital, 3675 Kilauea St., Honolulu, Hawaii.
- B. Perform operations and furnish equipment, tools, materials, related items and labor necessary to execute, complete and deliver the Work as required by the Contract Documents.
- C. The Division and Sections into which these specifications are divided shall not be considered an accurate or complete segregation of work by trades. This also applies to work specified within each section
- D. Contractor shall not alter the Drawings and Specification. If an error or discrepancy is found, notify the Consultant.
- E. Specifying of interface and coordination in the various specification sections is provided for information and convenience only. These requirements in the various sections shall complement the requirements of this Section.

1.02 SPECIFICATION FORMATS AND CONVENTIONS

- A. Specification Content: The Specifications use certain conventions for the style of language and the intended meaning of certain terms, words, and phrases when used in particular situations. These conventions are as follows:
 - 1. Abbreviated Language: Language used in the Specifications and other Contract Documents is abbreviated and include incomplete sentences. Omission of words or phrases such as “the Contractor shall”, “as shown on the drawings”, “a”, “an”, and “the” are intentional. Omitted words and phrases shall be provided by inference to form complete sentences. Words and meanings shall be interpreted as appropriate. Words implied, but not stated, shall be inferred, as the sense requires. Singular words shall be interpreted as plural, and plural words shall be interpreted as singular where applicable as the context of the Contract Documents indicates. Where devices, or items, or parts thereof are referred to in the singular, it is intended that such reference shall apply to as many such devices, items or parts as are required to properly complete the Work.

2. Imperative mood and streamlined language are generally used in the Specifications. Requirements expressed in the imperative mood are to be performed by Contractor. Occasionally, the indicative or subjunctive mood may be used in the Section Text for clarity to describe responsibilities that must be fulfilled indirectly by Contractor or by others when so noted.
 - a. The words “shall,” “shall be,” or “shall comply with,” depending on the context, are implied where a colon (:) is used within a sentence or phrase.
3. Abbreviations and Acronyms for Industry Organizations: Where abbreviations and acronyms are used in Specifications or other Contract Documents, they shall mean the recognized name of the entities indicated in Gale Research’s “Encyclopedia of Associations” or in Columbia Books’ “National Trade & Professional Associations of the U.S.”

B. Definitions

1. Directed: Terms such as “directed,” “requested,” “authorized,” “selected,” “approved,” “required,” and “permitted” mean directed by Contracting Officer, requested by Contracting Officer, and similar phrases.
2. Indicated: The term “indicated” refers to graphic representations, notes, or schedules on drawings or to other paragraphs or schedules in specifications and similar requirements in the Contract Documents. Terms such as “shown,” “noted,” “scheduled,” and “specified” are used to help the user locate the reference.
3. Furnish: The term “furnish” means to supply and deliver to project site, ready for unloading, unpacking, assembly, installation, and similar operations.
4. Install: The term “install” describes operations at project site including unloading, temporarily storing, unpacking, assembling, erecting, placing, anchoring, applying, working to dimension, finishing, curing, protecting, cleaning, and similar operations.
5. Provide: The terms “provide” or “provides” means to furnish and install, complete and ready for the intended use.
6. Installer: An installer is the contractor or another entity engaged by contractor as an employee, subcontractor, or sub-subcontractor, to perform a particular construction operation, including installation, erection, application, and similar operations.

7. Submit: Terms such as “submit,” “furnish,” “provide,” and “prepare” and similar phrases in the context of a submittal, means to submit to the Contracting Officer.

C. Industry Standards

1. Applicability of Standards: Unless the Contract Documents include more stringent requirements, applicable construction industry standards have the same force and effect as if bound or copied directly into the Contract Documents to the extent referenced. Such standards are made a part of the Contract Documents by reference.
2. Publication Dates: Comply with standards in effect as of date of the Contract Documents, unless otherwise indicated.
3. Conflicting Requirements: If compliance with two or more standards is specified and the standards establish different or conflicting requirements for minimum quantities or quality levels, comply with the most stringent requirement. Refer uncertainties and requirements that are different, but apparently equal, to HHSC Representative and Consultant for a decision before proceeding.

1.04 WORK SEQUENCE

- A. The Work will be conducted in a single construction phase.

1.05 USE OF PREMISES AND WORK RESTRICTIONS

- A. General: Contractor shall have full use of construction zone for construction operations, including restricted use of project site, during construction period. Contractor’s use of premises is limited only by State’s right to perform work or to retain other contractors on portions of the project site.

- B. Contractor’s use of premises is restricted as follows:

1. Construction Times and Schedule:

- a. The Contractor shall coordinate the work schedule with the HHSC Representative. An advanced notice of 15 calendar days shall be provided prior to the start of work. Work can be scheduled for weekdays (8:00 AM to 4:30 PM) with advanced notice by the Contractor.
- b. The normal operational hours are 8:00 AM to 4:30 PM, Monday through Friday.
- c. Unless restricted elsewhere in these specifications, the Contractor may not perform work outside of normal daily

operation hours. Weekend or holiday work may be permitted with the approval of the HHSC Representative. Any weekend or holiday work shall require a 15 calendar day advanced notice.

- d. Work performed during normal operating hours shall not impede public traffic or office personnel. An alternate route around the work areas may be required.

2. Site Access and Parking:

- a. Arrange all on-site parking and access with the HHSC Representative.
- b. Permanent use of the loading area is prohibited.
- c. Subject to availability, the HHSC Representative will designate other on-site areas that may be used by the Contractor other than assigned stalls. Restore any property damaged by construction activities at the completion of the project.

3. Sanitation and Utilities:

- a. Contractor may use designated restrooms, however, shall maintain the facilities in clean condition at all times. Coordinate with the HHSC Representative.
- b. Arrange all temporary electricity and water service with the HHSC Representative. There will be no charges for reasonable electricity and water service.
- c. Should interruption of any utility services be required, outages shall be coordinated with the HHSC Representative. A minimum five (5) working days notice shall be provided. Contractor is forewarned that the HHSC Representative may require outages to be done at specific times to minimize disruptions to the facility operations.

4. Other Conditions:

- a. Noise and other disrupting activities normally resulting from construction operations are detrimental to the conduct of normal activities in adjacent locations surrounding the project area. Accordingly, exercise every precaution to keep noise levels to a minimum. Internal combustion engines and compressors shall be equipped with mufflers to reduce noise to a minimum.
- b. Use or application of materials with offensive odors should be avoided and may be restricted from use on this project.

1.06 WORK UNDER OTHER CONTRACTS

- A. Separate Contract: The HHSC may execute a separate contract for certain construction at the facility that was not known at the time Offers were submitted.
- B. Cooperate fully with separate contractors so work on those contracts may be carried out smoothly, without interfering with or delaying work under this Contract.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION (Not Used)

END OF SUMMARY

SECTION 01140 - WORK RESTRICTIONS

PART 1 - GENERAL

1.01 SUMMARY

A. This section includes work restrictions on the Contractor's operations, and construction as required to maintain the facility's operation during the construction period.

B. CONSTRUCTION PROVISIONS

1. Rules and Regulations: Consult with the HHSC Representative at the pre-construction conference and become familiar with the rules and regulations of the facility.
2. Contractor's Operations: Confine all construction operations to the immediate vicinity of the construction activity. Store building materials, equipment, tools and incidentals in an enclosed area as directed by the HHSC Representative. Take precautions and prevent access to power equipment, tools, etc., by other than authorized construction personnel. Perform operations to ensure the safety of the occupants of the buildings at all times.
3. Perform operations to minimize inconvenience or disturbance upon the personnel and residents.
4. Protection of occupants: Special consideration must be made by the Contractor at all times to safely protect the occupants and facility personnel from any and all injuries that may be caused as a result of the work performed under this contract.
5. Caution: The Contractor shall caution his personnel on the job that any association with the occupants be avoided as much as possible, that when spoken to by occupants, normal courtesy shall be maintained at all times.
7. None of the foregoing regulations shall be construed as a restriction on the legal prosecution of the work.

1.02 SEQUENCING OF WORK

A. The Contractor shall schedule his work in general consideration for the on-going operation of the hospital. All work shall be coordinated with the HHSC Representative. Contractor shall consider in his proposal interruptions or delays to his schedule of work due to special requirements of HHSC.

END OF WORK RESTRICTIONS

SECTION 01300 - SUBMITTALS

PART 1 - GENERAL

1.01 GENERAL REQUIREMENTS

Where indicated in these specifications, provide submittals to the HHSC Representative and Consultant for review.

1.02 PROCEDURES

- A. Unless otherwise specified, deliver submittals to the HHSC Representative with copy to the Consultant.
- B. Transmit all items using form which identifies Project, Contractor, Subcontractor, and major supplier. Identify pertinent drawing sheet, detail number, and specification section number, as appropriate. Identify deviations from Contract Documents. Provide space for the Consultant's review stamp.
- C. Upon completion of review by the Consultant and HHSC Representative, the HHSC Representative will return submittals to the Contractor with copy to the Consultant.

1.03 SCHEDULE OF WORK

- A. Coordinate Schedule with Work Sequence specified in Section 01140.

1.04 SHOP DRAWINGS AND SAMPLE SUBMITTALS

- A. All submittals shall be made in accordance with the following unless otherwise specified. Minimum sheet size is 8-1/2" x 11". Maximum sheet size is same size as the Contract Drawings. Drawings shall be presented in a clear and thorough manner. Details shall be identified by reference to sheet, schedule, and detail shown on Contract Drawings.
- B. Mark each copy to identify applicable products, and other data. Supplement manufacturer's standard data to provide information unique to the work. Include manufacturer's installation instructions when required by the specification.
 - 1. The Contractor shall review, stamp with his approval and submit with reasonable promptness and in orderly sequence so as to cause no delay in work of any other Subcontractor, all shop drawings, and product data required by these specifications.
 - 2. Properly identify shop drawings and samples as specified. At the time of submission, the Contractor shall inform the Consultant in writing of any deviation in the shop drawings or submittals from requirements of the Contract Documents.

3. By approving and submitting the shop drawings and submittals the Contractor thereby represents that he has determined and verified all field measurements, field criteria, materials, catalog numbers and similar data, or will do so, and that he has checked and coordinated each shop drawing and sample with the requirements of these specifications.
 4. Six (6) copies of the Shop Drawings and submittals shall be submitted for review. Upon review, the Consultant will retain three (3) copies and return the balance to the Contractor.
 5. The Consultant will review the shop drawings and submittals with reasonable promptness so as to cause no delay but only for conformance with the design concept of the Project and with the information given in the Contract Documents. The Consultant's review of a separate item shall not indicate approval of an assembly in which the item functions.
 6. The Contractor shall make any corrections required by the Consultant and shall resubmit the required number of corrected copies of shop drawings or submittals for review. The Contractor shall direct specific attention in writing or on resubmitted shop drawings to revisions other than the corrections requested by the Consultant on previous submissions.
 7. The Consultant's review of shop drawings or submittals shall not relieve the Contractor of responsibilities for any deviation from the requirements of the Contract Documents unless the Contractor has informed HHSC in writing of such deviation, at time of submission, and the HHSC Representative and/or Consultant has given written approval to the specific deviation; nor shall the Consultant's review relieve the Contractor from responsibility for errors or omissions in the shop drawings or samples.
 8. No portion of the work requiring a shop drawing or sample submission shall be commenced until the submission has been reviewed by the Consultant and HHSC Representative. All such portions of the work shall be in accordance with reviewed shop drawings and samples.
- C. Samples: Submit full range of manufacturer's standard textures, colors, and patterns for HHSC's selection. Submit samples as specified in the respective Specification sections and as noted above. Samples shall illustrate functional characteristics of the Product, with integral parts and attachment devices. Coordinate submittal of different categories for interfacing work. Include identification on each sample, giving full information.

1.05 BIDDER'S SPECIAL RESPONSIBILITY FOR COORDINATING CONTRACTURAL WORK AND SUBMITTALS:

- A. The General Contractor shall be responsible for the coordination of all contractual work and submittals.

- B. The General Contractor shall have a rubber stamp made up in the following format:

Contractor's Name

PROJECT: _____

PROJECT NO.: _____

THIS SUBMITTAL HAS BEEN CHECKED BY THIS GENERAL CONTRACTOR. IT IS CERTIFIED CORRECT, COMPLETE, AND IN COMPLIANCE WITH CONTRACT DRAWINGS AND SPECIFICATIONS. ALL AFFECTED CONTRACTORS AND SUPPLIERS ARE AWARE OF, AND WILL INTEGRATE THIS SUBMITTAL INTO THEIR OWN WORK.

DATE RECEIVED _____

SPECIFICATION SECTION # _____

SPECIFICATION PARAGRAPH # _____

DRAWING _____

SUBCONTRACTOR _____

SUPPLIER _____

MANUFACTURER _____

CERTIFIED BY: _____

- C. This stamp, "filled-in", should appear on the title sheet of each shop drawing, on a cover sheet of submittals in an 8-1/2" x 11" format, or on one face of a cardstock tag (min. 3" x 6") tied to each sample. The tag on the samples should state what the sample is, so that if the tag is accidentally separated from the sample, they can be matched up again. The back of this tag will be used by the Engineer for his receipt, review, and log stamp and for any comments that relate to the sample.
- D. All submittals for material and shop drawings listed in the contract documents, shall be required and shall be first reviewed and certified by the General Contractor, then reviewed and approved by the Engineer prior to any ordering of materials and equipment. Submittals that have not been reviewed by the General Contractor shall be returned for review.

1.06 MANUFACTURER'S CERTIFICATES

Submit certificates, warranties, operating and maintenance instructions in accordance with requirements of each specification section. Submit in triplicate.

1.07 MSDS

MSDS shall be submitted prior to the pre-construction meeting. The Contractor shall submit MSDS log and reference each MSDS to its specification Section number and product system.

PART 2 – PRODUCTS (Not used)

PART 3 – EXECUTION (Not used)

END OF SUBMITTALS

SECTION 01577 - POLLUTION CONTROL

PART 1 - GENERAL

1.01 SUMMARY

- A. Includes site and environmental control requirements.

1.02 TRASH, REFUSE DISPOSAL

- A. Assume all ballast or lamps from removed light fixtures contain mercury and are pcb contaminated. Dispose fixtures properly in accordance with federal, state, and local requirements
- B. Burning of debris and/or waste materials on the project site is prohibited.
- C. Do not bury debris and/or waste material on the project site, unless specifically allowed elsewhere in these specifications as backfill material.
- D. Haul unusable debris and waste material to an appropriate off-site dump area. During loading operations, water down or provide other measures to prevent dust or other airborne contaminants.
- E. Vacuum, wet mop, or damp sweep when cleaning rubbish and fines which can become airborne from floors or other paved areas. Do not dry sweep.
- F. Use enclosed chutes and/or containers to conveying debris from above the ground floor level.
- G. Clean-up shall include the collection of all waste paper and wrapping materials, cans, bottles, construction waste materials and other objectionable materials, and removal as required. Frequency of clean-up shall coincide with rubbish producing events. The Contractor shall be responsible for all clean-up cost.

1.03 DUST

- A. Prevent dust from becoming airborne at all times including non-working hours, weekends and holidays in conformance with the State Department of Health, Administrative Rules, Title 11, Chapter 60 - Air Pollution Control.
- B. Contractor is responsible for and shall determine the method of dust control. Subject to the Contractor's choice, the use of water or "environmentally friendly chemicals" may be used over surfaces which create airborne dust.
- C. Construct or erect dust control barriers as required to retain dust within the project site area.

- D. Contractor is responsible for all damage claims resulting from failure to control airborne dust during all times that the site is under the Contractor's control.

1.04 NOISE

- A. Keep noise within acceptable levels at all times in conformance with the State Department of Health, Administrative Rules, Title 11, Chapter 46 - Community Noise Control. Contractor shall obtain and pay for the Community Noise Permit from the State Department of Health when the construction equipment or other devices emit noise at levels exceeding the allowable limits.
- B. To reduce loud disruptive noise levels, ensure mufflers and other devices are provided on equipment, internal combustion engines and compressors. Maintain equipment to reduce noise to acceptable levels.
- C. Starting-up of construction equipment meeting allowable noise limits shall not be done prior to 8:00 a.m. without prior approval of the HHSC Representative. Equipment exceeding allowable noise levels shall not be started-up prior to 8:00 a.m.

1.05 SUSPENSION OF WORK

- A. Violations of any of the above requirements or any other pollution control requirements which may be specified in the Specifications shall be cause for suspension of the work creating such violation.
- B. Reference the General Conditions Construction, dated 3/17/06 for the suspension procedures.
- C. The HHSC Representative may also suspend any operations which creates a pollution problems even if the problem does not violate the provisions of this Section. In this instance, the work is considered a Change and subject to the provisions of the contract.

PART 2 - PRODUCTS (Not used)

PART 3 - EXECUTION (Not used)

END OF POLLUTION CONTROL

DIVISION 2 – SITE CONSTRUCTION

SECTION 02070 - SELECTIVE DEMOLITION

PART 1 - GENERAL

1.01 SUMMARY

- A. Extent of selective demolition work is indicated on drawings. Selective demolition work includes, but is not limited to, removal and subsequent disposal of all materials indicated or required to be removed.
- B. All materials resulting from demolition work, except as indicated or specified otherwise, shall become the property of the Contractor at the time of demolition and shall be removed from the limits of the school property and disposed of at an approved facility in accordance with City and County, State, and Federal regulations. Remove rubbish and debris from the job site daily, unless otherwise directed by the HHSC Representative.
- C. It shall be the responsibility of the Contractor to examine the project site and determine the existing conditions.
- D. Execute all work in an orderly and careful manner with due consideration for all items of work to remain.
- E. Obvious conditions which exist at the site shall be accepted as part of the work, even though they may not be clearly indicated on the Drawings and/or described herein, or may vary therefrom.
- F. All debris of any kind accumulated from the work of this Section shall be disposed off the site in a State Department of Health (DOH) approved waste, recycle, or asbestos-containing material landfill as applicable.
- G. Burning of any debris on-site will not be permitted.
- H. Permits, Notice, Etc.:
 - 1. The Contractor shall procure and pay for all necessary permits, certificates, or approvals that may be required in connection with this work.
 - 2. The Contractor shall serve proper notice and consult with the HHSC Representative regarding any temporary barricades and disconnections of electrical or other utility lines in the area which may interfere with the removal work, and all such lines where necessary shall be properly disconnected or relocated before commencing with the work.

1.02 SUBMITTALS

- A. Submit in accordance with Section 01300 – Submittals.
- B. Schedule: Submit 2 copies of schedule indicating proposed methods and sequence of operations for selective demolition work to the HHSC Representative for review prior to commencement of work. Include coordination for temporary shut-off and continuation of utility services as required, together with details for weather protection, dust and noise control protection.
- C. Landfill Disposal or Recycling Site: Submit the name of the approved DOH and Federal disposal facility to be used for this project.
- D. Plans and Procedures: Submit a plan and list of procedures for performing the demolition and removal work.

1.03 JOB CONDITIONS

- A. Condition of Structure: The HHSC assumes no responsibility for actual condition of items or portions of structure to be demolished.
- B. Conditions existing at time of commencement of contract will be maintained by the HHSC insofar as practicable.
- C. Do not interfere with use of adjacent occupied spaces or buildings. Maintain free and safe passage to and from occupied spaces or other occupied buildings.
- D. Partial Demolition and Removal: Items indicated to be removed but of salvageable value to Contractor, may be removed as work progresses. Transport salvaged items from site as they are removed. Storage or sale of removed items on site will not be permitted.
- E. Protections: Provide temporary barricades and other forms of protection as required to protect the general public, school, staff, and students from injury due to selective demolition work.
 - 1. Provide shoring, bracing, or support to prevent movement, settlement, or collapse of structure or elements to be demolished, and adjacent facilities or work to remain.
 - 2. Protect from damage existing finish work that is to remain in place and becomes exposed during demolition operations.
 - 3. Life safety procedures and provisions shall be in conformance with all applicable Federal, State, and City and County regulations, including HIOSH.
 - 4. Provide accessibility around temporary structures conforming to

Americans with Disabilities Act Accessibility Guidelines (ADAAG)
Section 201.3 and Section 206.1.

5. Remove protections, obstructions, and barricades at completion of work.
 6. Where barriers are erected or placed to facilitate the work, barriers shall not affect or impact the facility's fire exiting route or alarm systems.
- F. Damages: Promptly repair damages caused to adjacent facilities by demolition work at no cost to the HHSC.
- G. Traffic: Conduct selective demolition operations and debris removal in a manner to ensure minimum interference with roads, streets, walks, and other adjacent occupied or used facilities. Do not close, block or otherwise obstruct streets, walks or other occupied or used facilities without written permission from the HHSC Representative. Provide alternate routes around closed or obstructed traffic ways if required by governing regulations, as directed by the HHSC Representative.
- H. Dust Control:
1. Keep dust within acceptable levels at all times, including non-working hours, weekends, and holidays, in conformance with State Department of Health, Title 11, Administrative Rules, Chapter 60.1 - Air Pollution Control, latest edition.
 2. Only wet grinding or cutting of concrete will be allowed on exterior surfaces.
 3. Mechanical dry sweeping not permitted. Vacuuming, wet mopping, approved limited dry hand, wet or damp sweeping is acceptable.
 4. During loading operations, water down debris and waste materials to allay dust.
 5. The method of dust control and all costs incurred thereof shall be the responsibility of the Contractor.
 6. Enclosed chutes shall be used for removing debris from above the ground floor level.
- I. Noise Control:
1. Noise shall be kept within acceptable levels at all times in conformance with State Department of Health, Title 11, Administrative Rules, Chapter 46 - Community Noise Control, latest edition. The Contractor shall obtain and pay for community

noise permit from the State Department of Health when the construction equipment or other devices emit noise at level exceeding the allowable limits.

2. All internal combustion engine powered equipment shall have mufflers to minimize noise and shall be properly maintained to reduce noise to acceptable levels.
 3. Starting up of on-site vehicular equipment meeting allowable noise limits shall not be done prior to 6:45 AM without prior acceptance of the HHSC Representative. Equipment exceeding allowable noise limits shall not be started prior to 7:00 AM.
- J. Fire Safety: Fire safety during demolition shall comply with NFPA 241, "Standard for Safeguarding Construction, Alteration, and Demolition Operations", and 2021 NFPA 1, "Fire Code", as amended.
- K. Demolition Work: Conform to State of Hawaii, Occupational Safety and Health Standards; Subtitle 8, Division of Occupational Safety and Health; Part 3, Construction Standards; Chapter 131.1, Demolition.
- L. Other Controls:
1. Wherever trucks and/or vehicles leave the site and enter surrounding paved streets, the Contractor shall prevent any material from being spilled onto the pavement. Waste water shall not be discharged into existing streams, waterways, or drainage systems such as gutter and catch basins unless treated to comply with Department of Health pollution regulations.
 2. Trucks hauling materials shall be covered as required by PUC regulation. Trucks hauling fine materials shall be covered.

PART 2 - PRODUCTS (Not Used)

PART 3 - EXECUTION

3.01 INSPECTION

- A. Contractor Prior to commencement of selective demolition work, inspect areas in which work will be performed. Inventory existing conditions of structure surfaces, equipment or surrounding properties which could be misconstrued as damage resulting from selective demolition work; photograph, video or otherwise document and file with the HHSC Representative prior to starting work.

3.02 PREPARATION

- A. Provide temporary weatherproof covering for exterior openings resulting from demolition work.

3.03 BARRICADES AND ENCLOSURES

- A. Erect temporary barricades as required to prevent people from entering into project area to extent accepted by the HHSC Representative. The extent of barricade may be adjusted as necessary with acceptance of the HHSC Representative. This work shall be accomplished at no extra cost to the HHSC.
- B. When necessary, the Contractor shall provide, erect, and maintain lights, barriers, etc., as required by traffic and safety regulations with special attention to protection of life.

3.04 SELECTIVE DEMOLITION

- A. Protection of Property Perform selective demolition work, including all exterior improvements indicated on the drawings, in a systematic manner. Use such methods as required to complete work indicated on drawings in accordance with demolition schedule and governing regulations.
 - 1. Demolish concrete in small sections. Cut concrete at junctures with construction to remain using power-driven masonry saw or hand tools; do not use power-driven impact tools.
 - 2. Provide services for effective air and water pollution controls as required by local authorities having jurisdiction. All dust shall be suppressed by a fog spray or other approved method.
 - 3. Water and sewer facilities shall be available for the remainder of the building and in operating condition at all times.
 - 4. Extent of demolition and removal as shown are minimum requirements. Contractor shall be responsible for the extent of work required to properly accommodate the methods of construction required for the new work. Additional work required to accommodate construction shall be considered incidental to the new work and shall be done at no additional cost to the HHSC.
- B. If unanticipated mechanical, electrical or structural elements which conflict with intended function or design are encountered, investigate and measure both nature and extent of the conflict. Submit report to the Consultant and HHSC Representative in written, accurate detail. Pending receipt of directive from the Consultant rearrange selective demolition schedule as necessary to continue overall job progress without delay.

3.05 DISPOSAL OF DEMOLISHED MATERIALS

- A. Erect Remove debris, rubbish, and other materials resulting from demolition operations from building site daily. Transport and legally dispose of materials off site.

1. If hazardous materials are encountered during demolition operations, comply with applicable regulations, laws, and ordinances concerning removal, handling, and protection against exposure or environmental pollution.
 2. Burning of removed materials is not permitted on project site.
- B. Disposition of Materials: All waste materials shall be disposed of outside the limits of HHSC controlled land at the Contractor's expense to an approved solid waste or recycle disposal site. The Contractor shall provide to the HHSC Representative certified disposal manifests for all materials disposed of off-site. Comply with Federal, State, and local hauling and disposal regulations. The Contractor is encouraged to recycle materials to maximum extent possible to avoid disposal at a landfill.

3.06 CLEAN-UP AND REPAIR

- A. Upon completion of demolition work, remove tools, equipment, and demolished materials from site. Remove protections and leave areas broom clean.
- B. Repair demolition performed in excess of that required. Return structures and surfaces to remain to condition existing prior to commencement of selective demolition work. Repair adjacent construction or surfaces soiled or damaged by selective demolition work.
- C. Any existing work which is to remain and which is damaged as a result of demolition work shall be restored to its original condition or as otherwise directed by the HHSC Representative at no cost to HHSC.
- D. All existing grass areas disturbed or damaged due to construction or ingress or egress to the site shall be repaired to original conditions. Grass areas shall be recultivated, topsoiled, and then grassed with the same kind and type of material as existing, in a manner accepted by and to the satisfaction of the HHSC Representative.

END OF SELECTIVE DEMOLITION

SECTION 02075 - CONCRETE CORING

PART 1 - GENERAL

1.01 GENERAL CONDITIONS

- A. As specified in Section 01019.

1.02 DESCRIPTION OF WORK

- A. Existing coring through floor shall be used unless it is determined that a new location will be to be cored or adjusted.

1.02 SUBMITTALS

- A. Meet the applicable requirements of Section 01300.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Manufacturer
 - 1. None provided.

PART 3 - EXECUTION

3.01 PREPARATION

- A. As needed, if required.

3.02 APPLICATION

- A. Coring prepared by quality workers.

END OF CONCRETE CORING

DIVISION 5 – METAL FABRICATION

SECTION 05500 - METAL FABRICATION

PART 1 - GENERAL

1.01 GENERAL CONDITIONS

- A. As specified in Section 01019.

1.02 DESCRIPTION OF WORK

- A. Removing existing drywall and metal studs in order to place new sewer piping. After completion of piping work, metal studs shall be put back or placed at end of gypboard, and drywall put back.

2.03 SUBMITTALS

- A. Meet the applicable requirements of Section 01300.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Galvanized Steel Wall Studs – 3 5/8" x 1 5/8".

2.02 GALVANIZING

- A. Hot-dip galvanize ferrous metals, unless indicated otherwise.

2.03 FABRICATION

- A. No fabrication should be required.

PART 3 - EXECUTION

3.01 INSPECTION

- A. Examine existing conditions to place metal studs to support new drywall.

3.02 INSTALLATION

- A. Install new metal studs to match existing and facilitate installation of new gypboard.

END OF METAL FABRICATION

DIVISION 7 – THERMAL AND MOISTURE PROTECTION

SECTION 07900 - JOINT SEALANTS

PART 1 - GENERAL

1.01 GENERAL CONDITIONS

- A. As specified in Section 01019.
- B. DESCRIPTION OF WORK
- C. Provide two-hour fire stop at all pipe penetrations through concrete floors.

1.03 SUBMITTALS

- A. Meet the applicable requirements of Section 01300.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Manufacturers
- B. 3M Fire Barrier Products, DAP Fire Barrier Products, SIKA Corp or equal.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Inspection: Verify that new pipe is secured before two-hour fire stop is added around pipe to fill void to concrete.

END OF THERMAL AND MOISTURE PROTECTION

DIVISION 9 – FINISHES

SECTION 09250 – GYPSUM WALLBOARD

PART 1 - GENERAL

1.01 GENERAL CONDITIONS

- A. As specified in Section 01019.

1.02 DESCRIPTION OF WORK

- A. Replace gypsum board taken out to place new sewer pipes. Note: All corridor walls shall use Type "X" gypsum board. Other areas regular gypsum board.

1.03 SUBMITTALS

- A. Meet the applicable requirements of Section 01300.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Manufacturer: U.S. Gypsum or equal, and recommendations of GA 216. Thickness to match existing.

PART 3 - EXECUTION

3.01 INSPECTION

- A. Examine the substrates and conditions under which work of this section will be performed. Do not proceed until unsatisfactory conditions detrimental to timely and proper completion of the work have been corrected.

END OF GYPSUM WALLBOARD

SECTION 09510 – ACOUSTICAL CEILING

PART 1 - GENERAL

1.01 GENERAL CONDITIONS

- A. As specified in Section 01019.

1.02 DESCRIPTION OF WORK

- A. Remove and reinstall existing Acoustical ceiling tiles as necessary to replace sewer line and remove gypsum wallboard.

1.03 SUBMITTALS

- A. Meet the applicable requirements of Section 01300.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Use Acoustical Tiles, if required to replace, as provided by Maintenance Department.

PART 3 - EXECUTION

3.01 INSPECTION

- A. Examine the substrates and conditions under which work of this section will be performed. Do not proceed until unsatisfactory conditions detrimental to timely and proper completion of the work has been corrected.

END OF ACOUSTICAL CEILING

SECTION 09900 - PAINTING

PART 1 - GENERAL

1.01 GENERAL CONDITIONS

- A. As specified in Section 01019.

1.02 DESCRIPTION OF WORK

- A. Paint all new drywalls.

1.03 SUBMITTALS

- A. Paint new drywalls to match existing wall color.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Manufacturer: Benjamin Moore, Sherwin Williams, Sinclair, Ameritone, Glidden, or equal.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Verify that all surfaces are properly prepared, dry and clean before starting work.
- B. Proceeding with this work will indicate acceptance of surface as being suitable.

3.02 APPLICATION

- A. Performed by skilled craftsmen.
- B. Interior Painting
 - 1. Gypsum Board: Low sheen
 - 1st Coat: 890 Pigmented Primer
 - 2nd Coat: 1790 Aqua Coater
 - 3rd Coat: 3000 Aqua Suede Finish

END OF PAINTING

SECTION 09952 – WALL COVERING

PART 1 - GENERAL

1.01 GENERAL CONDITIONS

- A. As specified in Section 01019.

1.02 DESCRIPTION OF WORK

- A. Existing corridor walls are all covered by wallpaper and this wallpaper needs to be replaced once the drywall is in place. New wallpaper will need to be added.

PART 2 - PRODUCTS

2.01 MATERIALS

- A. Manufacturer: Wall covering Division, Diversi Tech General, or equal.

PART 3 - EXECUTION

3.01 INSPECTION

- A. Examine the substrates and conditions under which work of this section will be performed. Do not proceed until unsatisfactory conditions detrimental to timely and proper completion of the work has been corrected.

END OF WALL COVERING

DIVISION 15 - MECHANICAL

SECTION 15000 - MECHANICAL GENERAL REQUIREMENTS

PART 1 - GENERAL

1.01 SUMMARY

- A. This Section shall apply to all phases of work indicated in contract drawings, or required to provide for a complete installation of mechanical systems included in this project. Refer to the drawings for the project phasing procedure.

1.02 GENERAL DESCRIPTION

- A. This section applies to all Sections of Division 15 - Mechanical, of this project specification, unless specified otherwise in the individual sections.
- B. Electrical Requirements: Provide electrical components of mechanical equipment and systems such as motors, controllers, contactors, starters, and disconnects under Division 15 - Mechanical, as specified herein, and as necessary for complete and operable systems. Provide interconnecting wiring for components of packaged equipment as an integral part of the equipment. Interconnecting power wiring and conduit for field erected equipment shall be as specified in DIVISION 16 - Electrical. Control wiring rated at 120 volts or less and conduit shall be as specified in Division 15 - Mechanical. Extended voltage range motors will not be permitted. Motor control equipment forming part of motor control centers, assemblies, or other power sources to mechanical equipment shall conform to Division 16 - Electrical.

1.03 GENERAL REQUIREMENTS

- A. Provide all work described by the drawings and specifications, including work specified and not indicated, and work indicated and not specified.
- B. Completely examine the drawings and specifications and report to the Contracting Officer any error, inconsistency, omission, or error in the work of others affecting the mechanical work. If the Contractor proceeds with the work affected without instructions from the Contracting Officer, he shall correct or pay for any resultant damage or defect.
- C. Provide all supplementary or miscellaneous items, details, appurtenances and devices incidental to or necessary for a complete operating system where work required is not specifically indicated or specified.
- D. Maintain at the job site one copy of all drawings, specifications, addenda, approved shop drawings, change orders, and other modification, in good order and marked to record all changes made during construction. These documents shall be made available to the Contracting Officer.

- E. The Contractor shall schedule a date and time with the Contracting Officer, a minimum of 7 days in advance, for all testing.
- F. Reference to standards and publications are intended to be the latest revision of the standard or publication. In each of the publications referred to herein, consider the advisory provisions to be mandatory, as though the word, "shall" had been substituted for "should" wherever it appears. Interpret references in these publications to the "authority having jurisdiction" or words of similar meaning, to mean the Contracting Officer.
- G. The words "or approved equal", or other words of similar intent or meaning, means that the equipment or material to be substituted is subject to review by the Contracting Officer and must be acceptable to the Contracting Officer.

1.04 QUALITY ASSURANCE

- A. County, City, State, Federal and Industry Regulations: Comply with the City & County of Honolulu building, fire and plumbing codes; State of Hawaii Department of Health and Department of Labor and Industrial Relations Regulations; U.S. Occupational Safety and Health Act; U.S. Environmental Protections Agency Regulations; National Fire Protection Association Codes; and other laws, codes and regulations, and ordinances and manufacturer's recommendations and requirements, when applicable and as referenced in these specifications. The Contractor shall schedule and pay for all inspections required by any government agency.
- B. Permits: Obtain all permits and pay all fees required by the applicable government agencies.
- C. Warranty: Warrant all equipment and material furnished, and workmanship of the mechanical systems for a period of one year starting only after 30 consecutive days of trouble free operation after system acceptance. Submit the manufacturer's warranty documents for all equipment furnished to the State. The warranty shall cover all labor and material required to correct, replace, or repair any defective item at no cost to the State.
- D. Material and Equipment Qualifications: Provide materials and equipment that are standard products of manufacturers regularly engaged in the manufacture of such products, which are of a similar material, design and workmanship. Standard products shall have been in satisfactory commercial or industrial use for 2 years prior to award of this contract. The 2-year use shall include applications of equipment and materials under similar circumstances and of similar size. The product shall have been for sale on the commercial market through advertisements, manufacturer's catalogs, or brochures during the 2-year period. Air conditioning equipment to be considered for bid purposes must be a manufacturer that has locally stocked spare parts, representative, and support of a service organization reasonably convenient to the site of

installation which has serviced manufacturer's unit of comparable type, size and capacity installed and operating satisfactorily in the State of Hawaii for a minimum of two years prior to bid opening. The Contractor shall provide a list of locations in Hawaii with addresses and telephone number when requested by the Contracting Officer. All equipment with local manufacturer's representation shall be purchased thru the local factory authorized distributor. Preference should be given to products made or manufactured in the United States of America.

- E. Alternative Qualifications: Products having less than a two-year field service record will be acceptable if a certified record of satisfactory field operation for not less than 6000 hours, exclusive of the manufacturer's factory or laboratory tests, can be shown.
- F. Service Support: The equipment items shall be supported by service organizations. Submit a certified list of qualified permanent service organizations for support of the equipment which includes their addresses and qualifications. These service organizations shall be reasonably convenient to the equipment installation and able to render satisfactory service to the equipment on a regular and emergency basis during the warranty period of the contract.
- G. Manufacturer's Nameplate: Each item of equipment shall have a nameplate bearing the manufacturer's name, address, model number, and serial number securely affixed in a conspicuous place; the nameplate of distributing agent will not be acceptable.

1.05 SUBMITTALS

- A. Submit in accordance with Section 01300 – Submittal Procedures.
 - 1. Submit 6 copies of each required submittal to the Contracting Officer. Submittals shall include the manufacturer's name, trade name, place of manufacture, catalog model or number, nameplate data, size, layout dimensions, capacity, project specification and paragraph reference, applicable industry, and technical society reference standards, years of satisfactory service, and other information necessary to establish contract compliance of each item the Contractor proposes to be provided. Photographs of existing installations and date submitted in lieu of catalog data are not acceptable and will be returned without review. Partial submittals are not acceptable and will be returned without review.
 - 2. At the time the submittals are submitted, the Contractor shall inform the Contracting Officer, in writing, of any deviation in the shop drawings and other submittals from the requirements of the contract documents.
 - 3. Manufacturer's Catalog Data: Submittals for each manufactured item shall be current manufacturer's descriptive literature of cataloged products, equipment drawings, diagrams, performance

and characteristic curves and catalog cuts.

4. Shop Drawings:
 - a. Submit drawings a minimum 24 by 36 inches in size, using a minimum scale of 1/8 inch per foot. Include floor plans, section views, wiring diagrams, and installation details of equipment; and equipment spaces identifying and indicating proposed location, layout and arrangement of items of equipment, control panels, accessories, piping, ductwork, and other items that must be shown to ensure a coordinated installation. Indicate locations of items requiring maintenance or inspection. Wiring diagrams shall identify circuit terminals, and indicate the internal wiring for each item of equipment and the interconnection between each item of equipment. Drawings shall indicate adequate clearance for operation, maintenance, and replacement of equipment devices.
 - b. Provide a written certification with the shop drawing submittal stating that the Contractor has determined and verified all field measurements, sizes and obstructions, and that he has coordinated the shop drawings with the field conditions and the work of other trades.
5. Manufacturer's Instructions: Where installation procedures or part of installation procedures are required to be in accordance with the manufacturer's instructions, submit printed copies of those instructions prior to installation. Installation of the item shall not proceed until the manufacturer's instructions are received. Failure to submit can be cause for rejection of the equipment or material.
6. Certificates of Compliance: Submit a certificate of compliance from the manufacturer for approval for products, finishes, and equipment as specified in the technical sections whose compliance with organizational standards or specifications is not regulated by an organization using its own listing or label as proof of compliance. The certificate shall identify the manufacturer, the products, equipment, or materials and the referenced standard and shall simply state that the manufacturer certifies that the product conforms to the requirements specified.
7. Reference Standards Compliance: Where equipment or materials are specified to conform to industry and technical society reference standards of organizations such as the American National Standards Institute (ANSI), American Society for Testing and Materials (ASTM), National Electrical Manufacturers Association (NEMA), American Society of Mechanical Engineers (ASME), American Gas Association (AGA), American Refrigeration Institute (ARI), and Underwriters Laboratories (UL), submit proof of such conformance. If an organization uses a label

or listing to indicate compliance with a particular reference standard, the label or listing will be acceptable evidence, unless otherwise specified in the individual sections.

8. Independent Testing Organization Certificate: In lieu of the label or listing, submit a certificate from an independent testing organization, competent to perform testing and approved by the Contracting Officer. The certificate shall state that the item has been tested in accordance with the specified organization's test methods and that the item complies with the specified organization's reference standard.
9. Operation and Maintenance Manuals: Submit operation and maintenance manuals (5 sets) for each system and principal item of equipment.
10. Operating Instructions: Submit text of posted operating instructions for each system and principal item of equipment as specified in the technical sections.
11. Submit as-built drawings to the Contracting Officer prior to final inspection.

1.06 DELIVERY, STORAGE AND HANDLING

- A. Handle, store, and protect equipment and materials to prevent damage before and during installation in accordance with the manufacturer's recommendations, and as approved by the Contracting Officer. Replace damaged or defective items.

1.07 POSTED OPERATING INSTRUCTIONS

- A. Provide for each system and principal item of equipment as specified in the technical sections for the use of the operation and maintenance personnel. Include the following in the operating instructions.
- B. System Descriptive Information: Wiring diagrams, control diagrams, piping diagrams, control sequence and operating points for each principal system and item of equipment. Post instructions where indicated.
- C. Equipment Instructions: Attach to or post adjacent to each principal item of equipment and include directions under glass.
- D. Start up, proper adjustment, operating, lubrication and shutdown procedures.
- E. Safety precautions, procedure in the event of equipment failure.
- F. Other areas as recommended by the manufacturer of each system of item of equipment.
- G. Print or engrave, and frame under glass or in an approved laminated

plastic. Operating instructions exposed to weather shall be made of weatherproof materials or provided with a weatherproof enclosure. Operating instructions shall not fade when exposed to sunlight and shall be secured to prevent easy removal.

1.08 SAFETY REQUIREMENTS

- A. Equipment Safety: Fully enclose or properly guard, in accordance with DOSH regulations, belts, pulleys, chains, gears, couplings, projecting setscrews, keys, rotating parts, and other power transmission apparatus, located where persons can come in close proximity thereto. Points of operation, in going nip points, and machinery producing flying chips and sparks shall be guarded in accordance with the applicable portions of DOSH regulations. Provide positive means of locking out equipment so that the equipment cannot be accidentally started during maintenance procedures. High-temperature equipment and piping so located as to endanger personnel or create a fire hazard shall be properly guarded or covered with insulation of the type specified. Ensure that access openings leading to equipment are large enough to carry through routine maintenance items such as filters and tools.
- B. Warning Sign: Provide a permanent placard or sign at the entrance to confined spaces contained in the equipment. The sign shall warn personnel not to enter the space until the atmosphere inside has been tested and systems have been de-energized.

1.08 INSTRUCTIONS TO PERSONNEL

- A. Furnish the services of competent instructors to give full instruction to the designated personnel in the adjustment, operation, and maintenance, including pertinent safety requirements, of each specified equipment or system. Instructors shall be thoroughly familiar with all parts of the installation and shall be trained in operating theory as well as practical operation and maintenance work. Instruction shall be given during the first regular work week after the equipment or system has been accepted and turned over to the State for regular operation. The number of man days (8 hours per day) of instruction furnished shall be as specified in the individual sections. When more than 4 man days of instruction are specified, use approximately half of the time for classroom instruction. Use other time for instruction with the equipment or system. When significant changes or modifications in the equipment or system are made under the terms of the contract, provide additional instruction to acquaint the operating personnel with the changes or modifications.

PART 2 - PRODUCTS

2.01 MATERIALS AND EQUIPMENT

- A. All materials and equipment shall be new and free from defects. Unless otherwise specified, each equipment or material of its kind shall be the standard product of a single manufacturer. All mechanical equipment,

fans, pumps and compressor motors shall be sized to not overload anywhere on the operating curve. Safety factor shall be a minimum of 1.15.

- B. All materials and equipment shall be selected and installed so that adequate clearance for maintenance and servicing is provided. Installation and clearance requirements shall meet manufacturer's recommendations.

PART 3 - EXECUTION

3.01 FACTORY PAINTING OF EQUIPMENT

- A. Factory applied painting of equipment shall be as specified herein, and provided under each section. Manufacturer's standard factory painted systems may be provided subject to certification that the factory painting system applied will withstand 125 hours in a salt spray fog test, except that equipment located outdoors shall withstand 500 hours in a salt spray fog test. Salt spray fog test shall be in accordance with ASTM B117. Immediately after completion of the test, the paint shall show no signs of blistering, wrinkling or cracking; no loss of adhesion; and the specimen shall show no signs of rust creepage beyond 0.125 inch on either side of the scratch mark. The film thickness of the factory painted system applied to the equipment shall be not less than the film thickness used on the test specimen. If manufacturer's standard factory painting system is being proposed for use in lieu of the shop painting systems, submit certifications that the manufacturer's standard factory painting system conforms to the heat resistance requirement in addition to other certifications.

3.02 FIELD PAINTING

- A. Conform to Section 09913 - Exterior Painting and Section 09923 - Interior Painting. Provide labels/signs for all piping including refrigerant piping, chilled water, condenser water, condensate drain lines.
- B. The following items furnished under this section are to be painted and identified under Section 09913 - Exterior Painting and Section 09923 - Interior Painting. Do not paint over name plates or other identifying labels.
 - 1. Paint exposed black iron work including pipe, fittings, iron body valves, pipe hangers, etc., with two coats of zinc rich paint.
 - 2. Stencil all exposed piping with painted black letters indicating the service and with an arrow indicating the direction of flow. Stencil where pipes enter and leave each area and at not over 30 ft. intervals within an area. Paint color band at stencils; yellow for fuel and green for water systems. Width of color band, size of legend letters, and position of legend shall conform to the requirements of ANSI A13.1, Scheme for the Identification of Piping Systems.

3.03 MANUFACTURER'S RECOMMENDATIONS

- A. Equipment installed under this Division of the Specifications shall be installed according to the manufacturer's recommendations, unless otherwise indicated or specified otherwise.

3.04 OPENINGS, CUTTING AND PATCHING

- A. The Contractor shall be responsible for the cutting, drilling and patching of walls, partitions, floors, roofs, ceilings and other building structures, required for the installation of piping, ductwork, conduits and other material equipment. This work may be subcontracted to other Contractors, or arranged to be performed by the General Contractor.
- B. Holes through existing concrete and existing masonry shall be sawcut or core drilled. Holes through new concrete and masonry shall be provided with sleeves. Holes through other building materials shall be sawcut or core drilled and provided with sleeves.

3.05 PIPING INSTALLATION

- A. Conform to the requirements of the Uniform Plumbing Code and all manufacturer's recommendations. Inspect all pipes inside and outside. Remove interior obstructions and ream out pipe ends. Tool markings on polished fittings are not acceptable. Cut pipe accurately so that it can be worked into place without springing or forcing. Install pipes parallel to the wall of the structure and plumb. Make changes in direction with fittings. Bushings are not permitted. Pull-tees are not permitted. Install valves with stems above horizontal. Provide proper support and adequate provisions for expansion, contraction, slope and anchorage. Provide dielectric unions or separation at all dissimilar metals. Wrap pipe or tubing with 1/4-inch thick felt, secured with tape, where they contact other materials. Have piping treated, inspected and approved before it is furred in, buried or otherwise hidden. Provide standard weight galvanized steel pipe sleeves for all pipes passing through structure, sufficiently large to provide 1/4-inch clearance around pipe. Caulk watertight around pipes passing through sleeves. Wrap pipe with polyethylene tape where it passes through sleeve and when it contacts concrete or masonry. Grout with fire proof material around all pipe penetrations through slabs and walls full length of penetrations. Provide chrome plated brass escutcheons, set tight on the pipe and to the wall where pipes are exposed in finished areas. Provide clamping collar or membrane flange where pipe or drains penetrate waterproof membrane. Perform all welding using qualified welders in accordance with American National Standards Institutes Code B31.1 and American Welding Society Standard B3.0. Soil for bedding and backfill shall be tested for soil resistivity. If soil resistivity is less than 20,000 ohms-cm, provide cathodic protection of underground steel (including gas) and copper lines. Coordinate all pipe openings in prestressed tri-tee concrete flooring. Trenching/backfilling in accordance with the Plumbing Code. Support underground piping on firm soil along its

entire length. Where rocks are encountered, have trench excavated to a minimum overdepth of four inches and backfilled with granular moist earth, thoroughly tamped. Materials used for backfilling over piping shall be granular earth, free from debris and stones. The Contracting Officer may reject any materials which he considers unsuitable for fill. Clay and adobe type soil is not allowed. Provide a minimum of two feet of cover for all pipes. Where sewer and water lines are laid in the same trench, place water line on solid shelf with bottom of water line twelve inches above top of sewer. Where sewer and water lines cross, encase sewer in four inch thick concrete envelope.

3.06 FIELD TESTS

- A. The Contractor shall provide all labor, material, equipment, and instruments needed for the tests. During pressure test, all items in the system to be tested, which are not designed for the test pressure shall be removed or isolated from the system, and shall be reconnected or unblocked after the tests are completed. If operating tests require the supervision of the manufacturer's representative, the Contractor shall assist the representative by providing any labor, material, or equipment needed by the representative.

3.07 CLEANUP AND CLEANING

- A. The Contractor shall keep the premises free from accumulation of waste materials or rubbish caused by his operations. At the completion of the work, he shall remove all his waste materials, and rubbish from the project site as well as his tools, construction equipment, and surplus materials. Clean all new equipment and materials prior to final inspection.

END OF MECHANICAL GENERAL REQUIREMENTS

SECTION 15400 - PLUMBING

PART 1 - GENERAL

1.01 SUMMARY

- A. Plumbing work to replace of existing sanitary line with new lines (including associated supports, accessories, etc.) as indicated in plans and specifications.

1.02 SUBMITTALS

- A. Submit in accordance with Section 01300 - Submittal Procedures.
- B. Equipment Submittal: Before beginning work, submit for review certified literature showing dimensions of equipment, a list indicating manufacturer and model of fixtures and trim, and a list indicating all materials and items that are of a different manufacturer or model than those specified.
- C. Shop Drawings: After review of equipment, submit for review dimensioned installation shop drawings to scale showing details where space requirements present problems, proposed departures from the Contract Documents due to field conditions, and requirements for the concrete work, access panels, inserts in slabs, and openings in structure.
- D. As-Built Drawings: Record changes from the contract drawings of all concealed piping. Indicate location of isolating valves and items requiring maintenance or inspection. Dimension underground piping from a visible point on structure. Indicate invert and slope of drainage piping at sufficient location so that the invert can be calculated for any point in the system. Submit field posted as-built drawings for review as required by Section 01770 - Closeout Procedures.
- E. Certificates: The Contracting Officer shall have the right to require a written certificate, dated and signed by a responsible employee of this Contractor, evidencing the performance of any portion of the work, or any testing; as a condition precedent to the acceptance of any work or the result of any test. Whenever a regulatory agency performs inspections or tests of any portion of the work, a certificate shall be furnished by the Contractor that the inspection or test was satisfactorily passed.
- F. Warranty: Submit warranty as noted under item entitled "WARRANTY" below.

1.03 QUALITY ASSURANCE

- A. Comply with all the requirements of the City and County of Honolulu, State of Hawaii.
- B. Obtain and pay for all fees, permits, licenses, assessments, connection charges and inspections required for this work.
- C. Products of the following manufacturers are acceptable.

D. Comply with the recommendations and requirements of the Codes and Standards listed hereinafter in addition to detailed requirements of this specification. In the event of conflicting requirements, this specification shall prevail.

1. American Society for Testing and Materials (ASTM) Publications:

A74	Cast Iron Soil Pipe and Fittings
B53	Pipe, Steel, Black and Hot-Dipped Zinc Coated Welded and Seamless
C564	Rubber Gaskets for Cast Iron Soil Pipe and Fittings

2. American National Standards Institute Publications (ANSI):

C1	National Electrical Code
C2	National Electrical Safety Code

3. Cast-Iron Soil Pipe Institute Publication (CISPI):

Standard No. 301	Hubless Cast Iron Soil Pipe and Fittings for Sanitary and Storm Drain, Waste, and Vent Piping Applications
Standard No. 310	Couplings Joint for Use in Connection with Hubless Cast Iron Soil Pipe and Fitting
Pamphlet	Installation Suggestions for "No Hub" Pipe 100 Fittings

1.04 PRODUCT DELIVERY, STORAGE AND HANDLING

A. Furnish new equipment, fixtures, materials and accessories bearing the manufacturer's identification. Coordinate deliveries to avoid interference or construction delays. Protect products during delivery, storage, installation, and the remainder of the construction period after installation.

1.05 WARRANTY

A. All work in this Section shall be guaranteed by the Contractor for a period of one year from the date of project acceptance as a whole. Should any fixture or material fail within this period, this Contractor shall be responsible for all damage to any part of the premises caused by the failure and shall repair or replace the defects at no cost to the Hospital.

PART 2 - PRODUCTS

2.01 PIPE AND FITTINGS

- A. Sanitary Waste and Vent Pipes, Above Grade: Above grade cast iron soil, waste and vent piping in enclosed pipe shafts, concealed ceiling spaces, or enclosed under floor spaces may be No-Hub systems, Tyler No-Hub pipe and fittings or equal, conform to Cast Iron Soil Pipe Institute Standard 301-82 with Cast Iron Soil Pipe Institute Standard 310 coupling joint.

2.02 PLUMBING SYSTEM SPECIALTIES

- A. All drains and floor cleanouts with flashing flange and strainers maximum 1/4" openings, tops shall be matching nickel/bronze cleanout covers.
- B. Wall Cleanout: Watts CO- 460-RD on hubless cast iron pipe at walls in finished spaces.

PART 3 - EXECUTION

3.01 PREPARATION

- A. Visit the worksite and become fully aware of all existing conditions. Investigate the Contract Documents and make proper provisions to avoid interference or construction delays. Determine the exact route of each pipe. Make offsets and changes in direction required to maintain proper head room and pitch or to accommodate the structure and the work of other trades. Furnish other trades with information to properly locate and size openings in the structure required for this work. Furnish anchor bolts, sleeves, inserts, and supports required for this work.

3.02 INSTALLATION AND REQUIREMENTS

- A. Perform work using personnel skilled in the trade involved. Provide competent supervision. Furnish new equipment, fixtures, materials, and accessories bearing the manufacturer's identification and conforming to recognized commercial standards. Provide all extra materials and labor for a complete operable system at no extra cost to the Hospital. Installation shall be in accordance with manufacturer's recommendations.

3.03 PIPING INSTALLATION

- A. Conform to the requirements of the Uniform Plumbing code. Inspect all piping inside and outside. Remove interior obstructions and ream out pipe ends. Tool markings on polished fittings are not acceptable. Cut pipe accurately so that it can be worked into place without springing or forcing. Install pipes parallel to the wall of the structure and plumb. Make changes in direction with fittings. Bushings are not permitted. Install valves with stems above horizontal. Provide proper support and adequate provisions for expansion, contraction, slope, and anchorage. Provide dielectric unions where copper tubing connects to steel pipe. Wrap pipe or tubing with 1/4-inch thick felt and secure with tape where it contacts other materials. Have piping tested, inspected, and approved before it is furred in, buried, or otherwise hidden. Provide standard weight galvanized steel pipe

sleeves where water pipes pass through structure, sufficiently large to provide 1/4-inch clearance around pipe. Caulk watertight around pipes passing through sleeves. Wrap pipe with polyethylene tape where it passes through sleeve and where it contacts concrete or masonry. Grout with fireproof material around all pipe penetrations through slabs and walls for full length of penetrations. Provide chrome-plate brass escutcheons, set tight on the pipe and to the wall where pipes are exposed in finished areas. Provide clamping collar to membrane flange where pipe or drains penetrate waterproof membrane. Perform all welding using qualified welders in accordance with American National Standards Institute's Code B31.1 and American Welding Society Standard B3.0.

3.04 PIPING SYSTEM SUPPORTS

- A. Pipe Supports: Support underground piping on firm soil along its entire length. Where rocks are encountered, have trench excavated to minimum overdepth of 4-inches and backfilled with granular moist earth, thoroughly tamped. Materials used for backfilling over piping shall be granular earth, free from debris and stones. The Contracting Officer's representative may reject any materials which he considers unsuitable for fill. Provide a minimum of one foot of cover for all pipes. Support steel and copper pipe at maximum spacing of 6-feet for pipes 1-1/2-inches and smaller, 10-feet for pipes 2-inches through 4-inches.
- B. Pipe Hangers: Steel clevis hanger with adjustable hanger rod; 3/8" for pipe 2" and smaller, 1/2" for pipe 2-1/2" through 3-1/2" and 5/8" for pipe 4" and larger. Groups of lines may be supported from steel channel pipe clamp.

3.05 DRAINAGE, WASTE AND PIPE SYSTEMS

- A. Slope drain lines at 1/4-inches per foot unless otherwise indicated. On roof vents and where other drains occur above the ground floor, provide clamping device with drain. Provide a 4-pound lead flashing sheet extending 8-inches out around drain body and secure with clamp device. On vents through roof, extend vent flashing 8-inches out all around base of vent, extend collar up vent and turn in at top. Install hubless cast-iron and neoprene gasketed no-hub coupling below grade. MG stainless steel clamps and cast-iron no-hub couplings shall be installed in accordance with manufacturer's written instructions. Cleanout to grade shall be encased in concrete, flush with finished grade.

3.06 STANDARDIZED PIPE IDENTIFICATION SYSTEM

- A. Use an arrow marker with each pipe content marker, the arrow shall always point away from the pipe marker and in the direction of the flow.
- B. If flow can be in both directions, use a double headed arrow marker.
- C. Apply pipe marker and arrow marker at every point of pipe entry or exit where line goes through wall.
- D. Apply pipe marker and arrow marker on each riser and "T" joint.

- E. Apply pipe marker and arrow marker every 20-feet on long continuous lines.
- F. Apply markers on the 2 lower quarters of the pipe and where view is unobstructed.
- G. Arrow markers shall be 4-inches long minimum, and pipe content marker lettering shall be block-style lettering, all caps, with size minimum 1-1/2-inches in height. All identifications shall be contrasting color against the background, i.e. black lettering against white pipe insulation.

3.07 TESTING AND ADJUSTING

- A. All work shall be completely installed and tested as required by this Section and the applicable plumbing ordinances, and proven leak tight before inspection is required. Providing all required equipment and labor to make the test and repeating the tests to the satisfaction of those making the inspection is within the scope of this Section of the specifications. Any work concealed without the required test and approval shall be uncovered and tested at the Contractor's expense.
- B. Procedure:
 - 1. Soil, Waste and Vent Piping: Filled with water to the highest point in each system, and left filled for 8 hours with no noticeable change in water level; after approval, remove the test plugs and flush the line.

3.08 FIELD QUALITY CONTROL

- A. Test plumbing systems in accordance with the Uniform Plumbing Code. Perform tests in the presence of, and to the satisfaction of inspectors having jurisdiction over the work. Ask for final inspection by the Engineer after tests, adjustments and balancing has been performed.
 - 1. Test drainage systems in accordance with Section 318 of the Plumbing Code.
 - 2. Hydrostatically test the domestic water piping system at 100 psi for 2 hours. Inspect the entire system while under pressure and correct all deficiencies.
 - 3. Test equipment to demonstrate its operation and compliance with the specification.

3.09 SPARE-PARTS

- A. After approval of materials and equipment and 2 months prior to the project acceptance date, the Contractor shall furnish a complete list of parts and supplies with current source of supply.

3.10 TESTING AND INSPECTION

- A. Contractor shall furnish all equipment for tests and any required retests and pay for all cost of repairing any damage resulting from such tests. Contractor shall adjust systems until they are approved. Tests shall be performed in the presence of, and to the satisfaction of, an inspector of the official agency involved.
- B. Sanitary piping shall be tested in accordance with the Plumbing Code. Sanitary drains shall be tested with a minimum of 10 feet of water for 15 minutes. Water piping shall be tested. Valves shall be rated for at least 200 psi working pressure.
- C. Defective Work: If inspection of tests show defects, such defective work or material shall be replaced and inspection and tests repeated. Repairs to piping shall be made with new material. No caulking of screwed joints or holes will be accepted. Installation shall be repaired by skilled mechanics of the trade involved at no extra expense to the Hospital.
- D. Protection to Fixtures, Materials and Equipment: Pipe openings shall be closed with caps or plugs during installation. Fixtures and equipment shall be tightly covered and protected against dirt, water and chemical or mechanical injury. Upon completion of all work, the fixtures, materials and equipment shall be thoroughly cleaned, repainted, adjusted and operated.
- E. Chlorination: Domestic water lines shall be sterilized with chlorine before acceptance of work. Sterilize water system for 24 hours with 100 ppm chlorine introduced into the lines in an approved manner. Dosage of chlorine shall not be less than 50 ppm. After a contact period of not less than eight (8) hours, the system shall be flushed with clean water until the residual chlorine content is not greater than 0.2 ppm. All valves in the lines being sterilized shall be opened and closed several times during the contact period. A certificate shall be furnished to the Engineer evidencing proper performance of sterilizations.

3.11 PIPE PENETRATION

- A. Where pipes penetrate fire rated walls and floors, the space between the pipe and pipe sleeve shall be sealed with fireproof sealant.
- B. Installation shall be in accordance with manufacturers' instructions.

3.12 CLEANING AND ADJUSTING

- A. At the completion of the work, all parts of the installation shall be thoroughly cleaned. Equipment, fixtures, pipe valves, and fittings shall be cleaned of grease and metal cuttings, and sludge that may have accumulated by operation of the system for testing. Any stoppage or discoloration or other damage to parts of the building, its finish, or furnishing, due to the Contractors failure to properly clean the piping system shall be repaired by the Contractor without cost to the Hospital. Touch up with matching paint all damaged factory finishes.

END OF PLUMBING

LEAHI HOSPITAL - YOUNG BUILDING SEWER LINE REPLACEMENT

3675 KILAUEA AVENUE,
HONOLULU, HI 96816
T.M.K.: 3-2-031:001



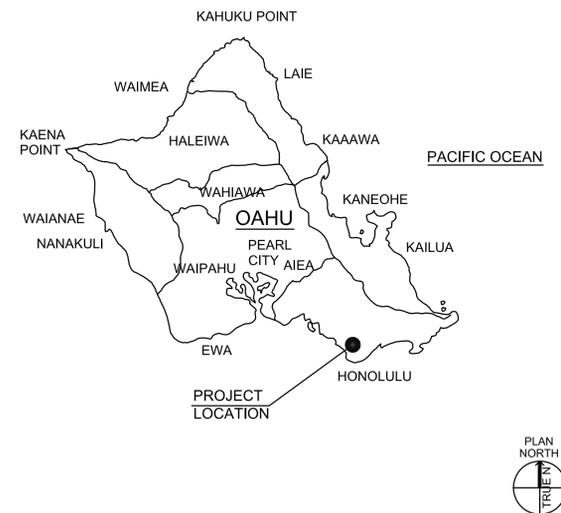
Mechanical Enterprises, Inc.
Mechanical & Fire Protection Engineers
501 Sumner Street, Ste. 503, Honolulu, Hawaii 96817 Phone: (808) 591-9038 Fax: (808) 596-7356

ROSS R. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 9301-M
HAWAII, U.S.A.

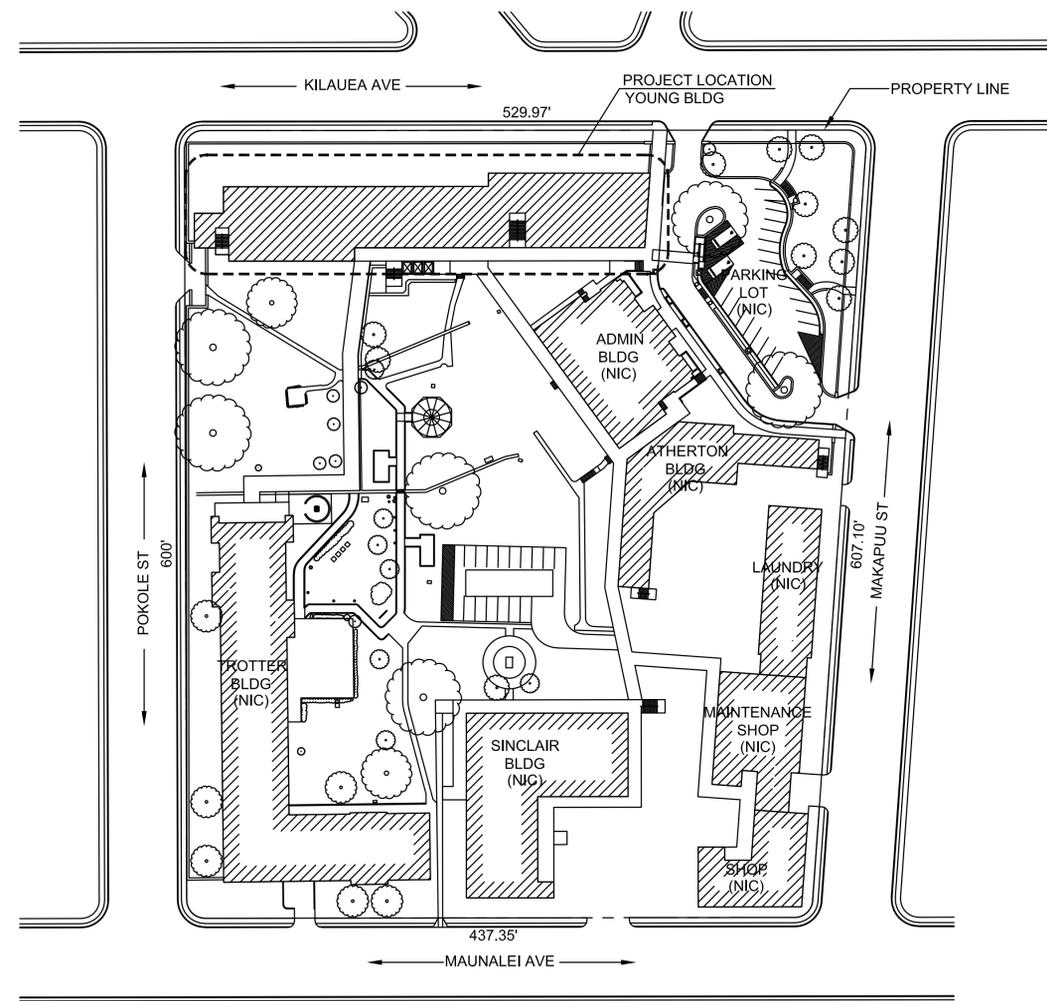
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ISLAND MAP (NTS)



VICINITY MAP (NTS)

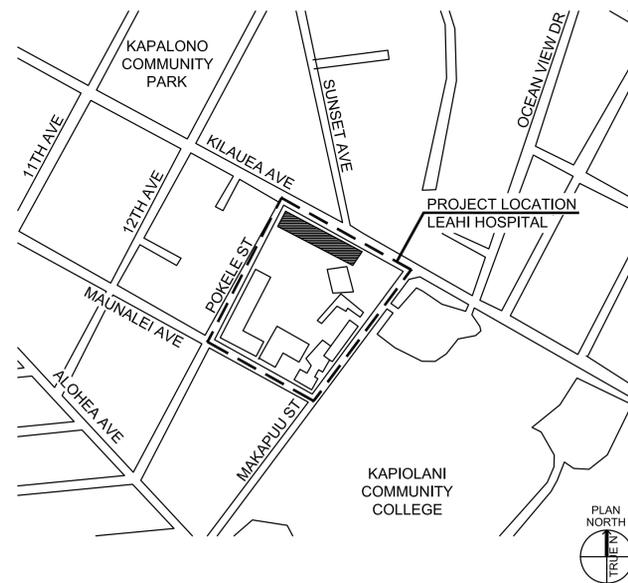


DESIGN TEAM

MECHANICAL:
MECHANICAL ENTERPRISES, INC
501 Sumner St #503
Honolulu, HI 96817

ARCHITECT:
CKM ARCHITECTS, LLC
98-829 Leialii Street
Aiea, HI 96701

LOCATION MAP (NTS)



PROJECT DESCRIPTION

THE WORK SHALL GENERALLY CONSIST OF PERFORMING A ONE FOR ONE REPLACEMENT OF THE EXISTING SANITARY HORIZONTAL LINE AND VERTICAL RISER AT CERTAIN PORTION OF YOUNG BUILDING.

DEMOLITION WORK SHALL INCLUDE BUT IS NOT LIMITED TO DEMOLITION OF PART OF THE HALLWAY WALL, FLOOR, WALL PAPER, CEILING, HANDRAIL, AND SANITARY LINE.

NEW WORK SHALL INCLUDE BUT NOT LIMITED TO INSTALLATION OF HANDRAIL, CEILING, WALL, FLOOR, WALL PAPER, SANITARY LINE, AND MISCELLANEOUS RELATED WORK.

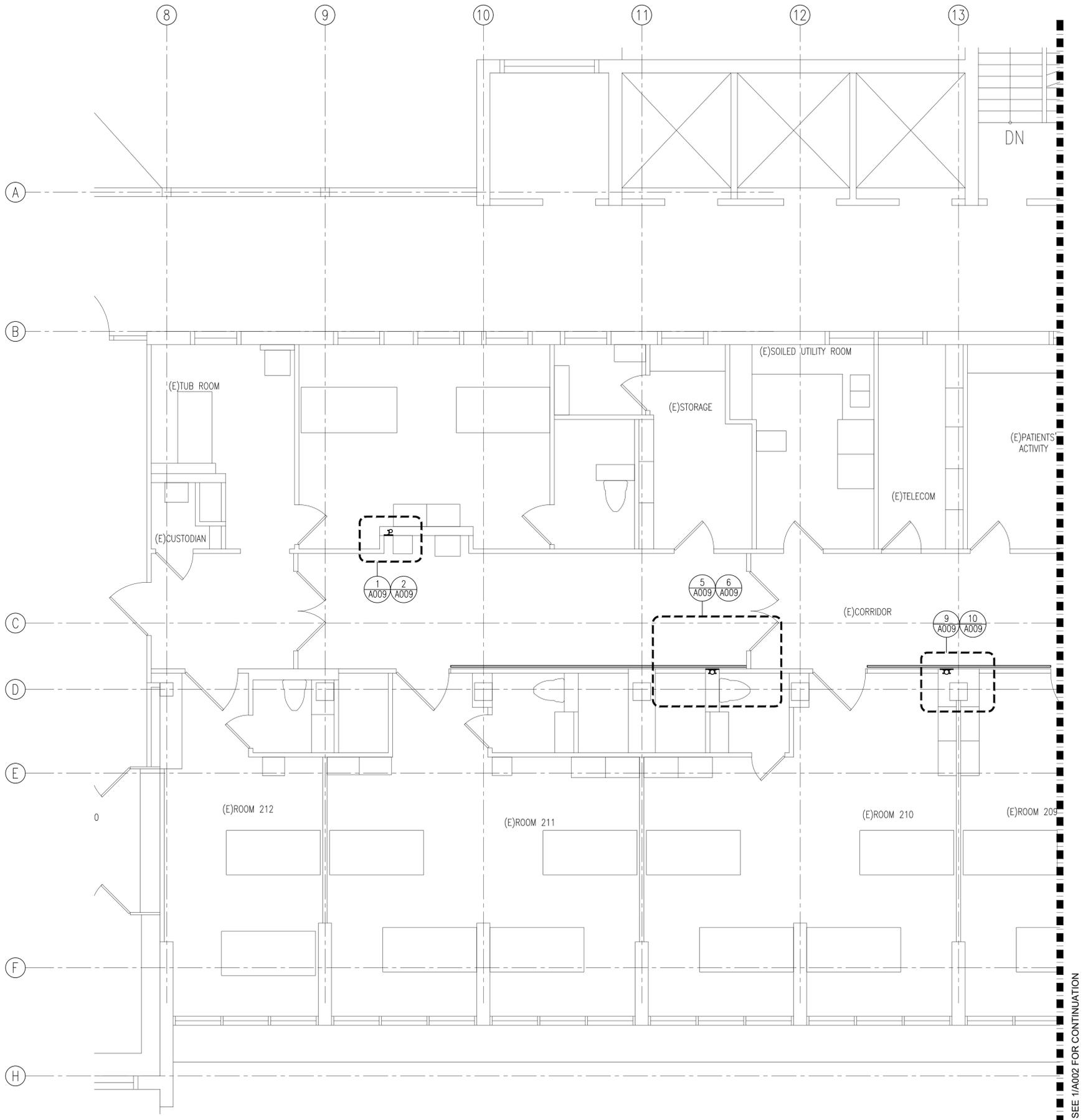
PROJECT SUBMITTAL

BID SET
DECEMBER 2025

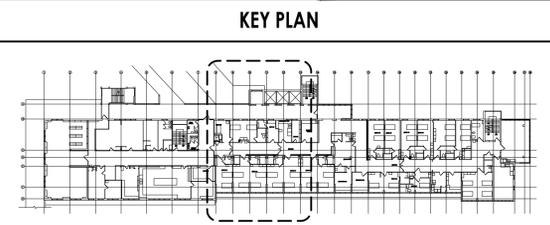
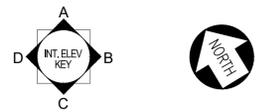
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LEAHI HOSPITAL YOUNG BUILDING SEWER LINE REPLACEMENT
3675 KILAUEA AVENUE, HONOLULU, HI 96816
TMK: 3-2-031:001
TITLE SHEET

Project Number 2025.035	Date 12/2025
Drawn MEI	Checked RRT
Designed MEI	
Drawing Number T001	
Sheet No. 1 of 34	



1 PARTIAL DEMOLITION AND NEW FLOOR PLAN – SECOND FLOOR
 A001 SCALE: 1/4" = 1'-0"



KEY PLAN

MEI
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 Mechanical & Fire Protection Engineers
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CURTIS K. MIYAMURA
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 No. 6268
 HAWAII, U. S. A.

Curtis K. Miyamura
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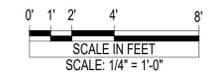
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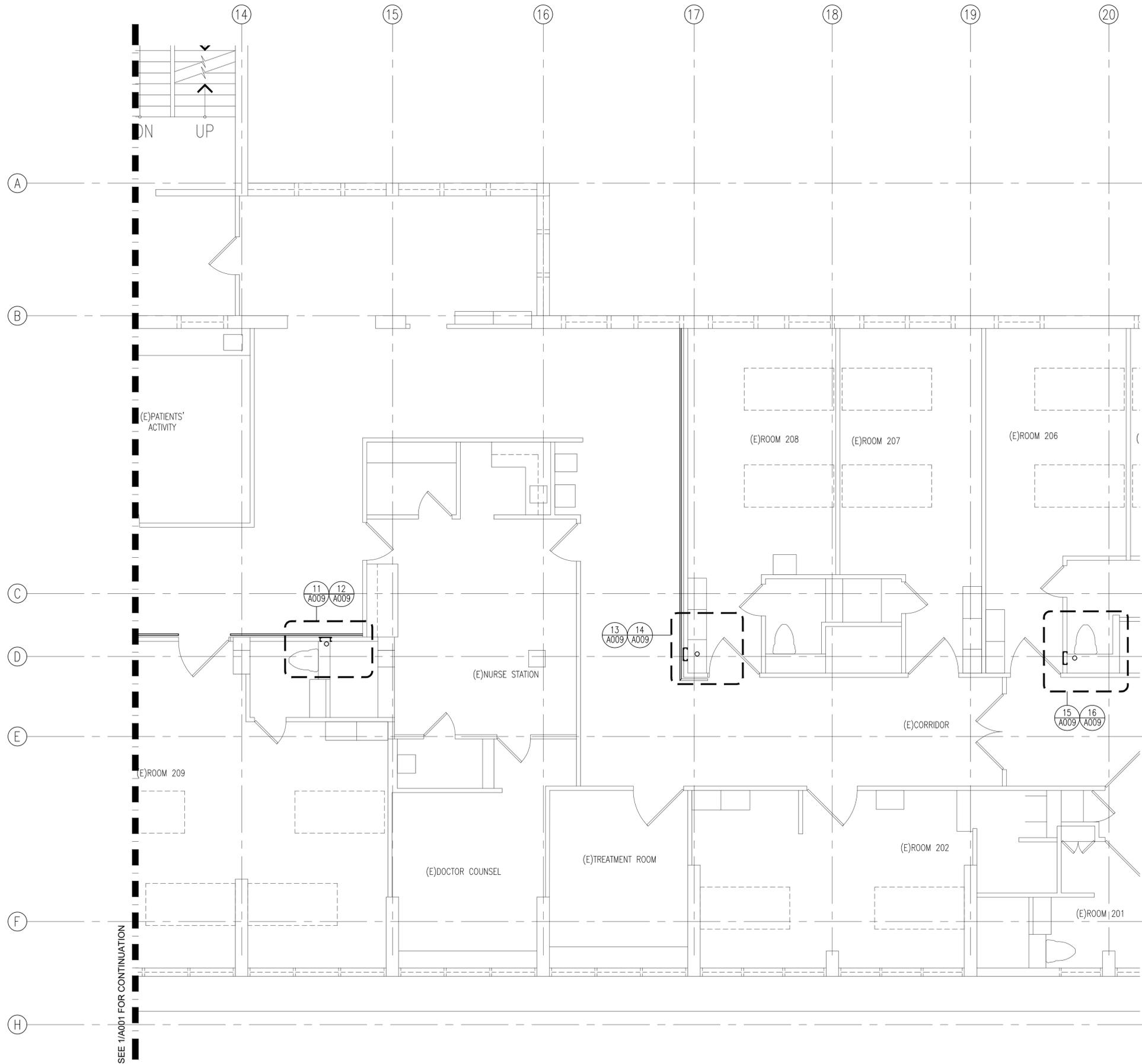
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 3675 KILAUEA AVENUE, HONOLULU, HI 96816
 TMK: 3-2-031001

PARTIAL DEMOLITION AND NEW FLOOR PLAN – SECOND FLOOR

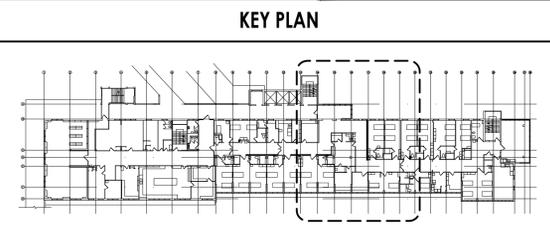
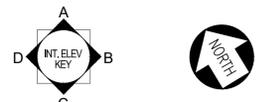
Project Number 2025.035	Date 12/2025
Drawn DM	Checked CM
	Designed CM

Drawing Number
A001
 Sheet No. 3 of 34





1 PARTIAL DEMOLITION AND NEW FLOOR PLAN – SECOND FLOOR
 A002 SCALE: 1/4" = 1'-0"



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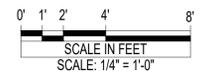
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Curtis K. Miyamura
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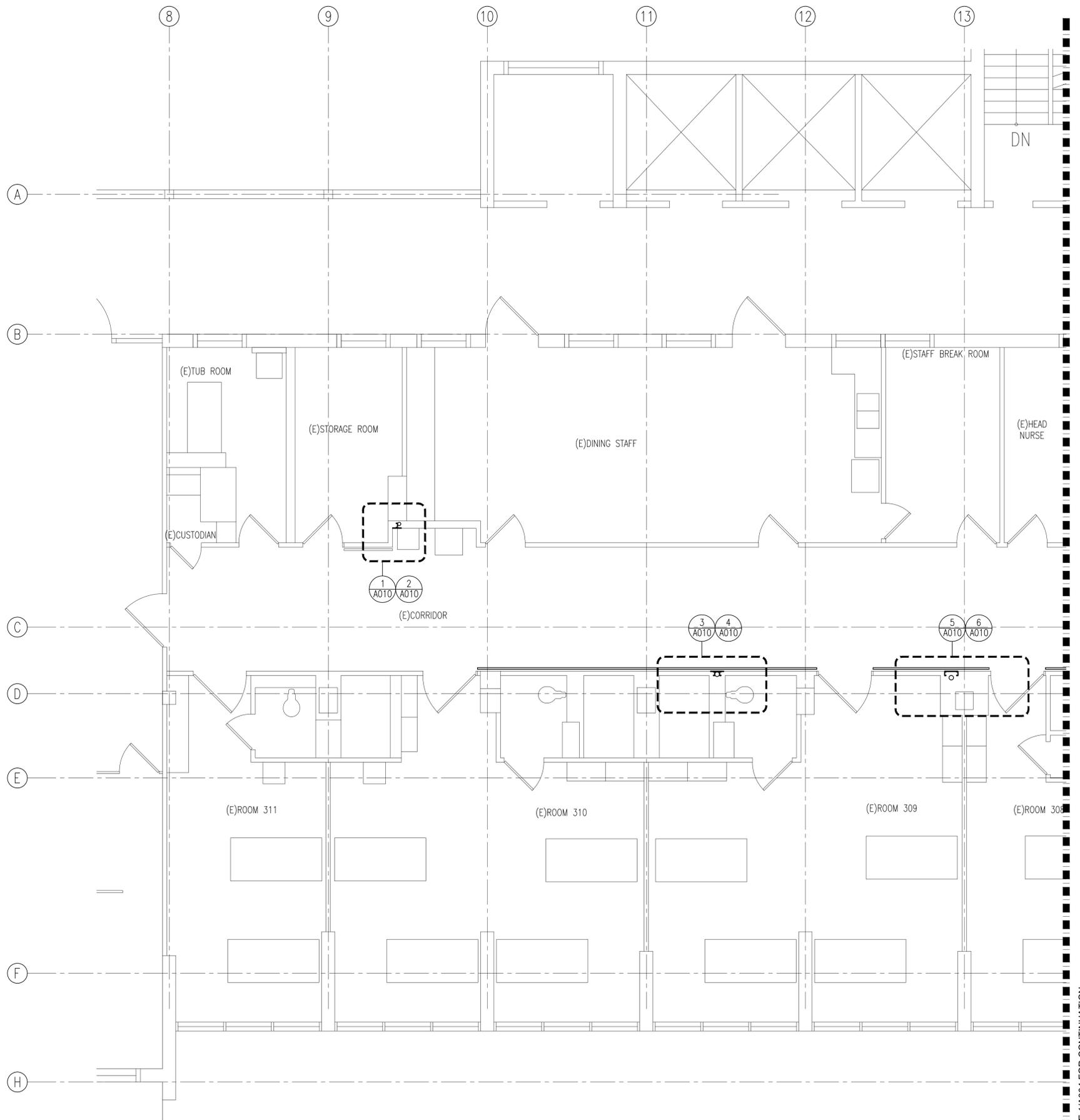
REVISIONS	
NO	DESCRIPTION

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 3675 KILAUEA AVENUE, HONOLULU, HI 96816
 TMK: 3-2-031001
 PARTIAL DEMOLITION AND NEW FLOOR PLAN – SECOND FLOOR

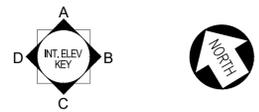
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Drawn DM	Checked CM
	Designed CM

Drawing Number
A002
 Sheet No. 4 of 34



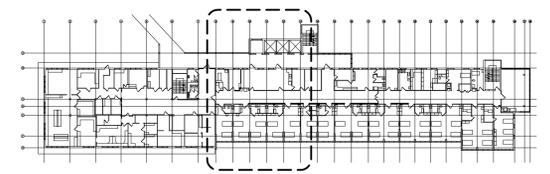


1 PARTIAL DEMOLITION AND NEW FLOOR PLAN – THIRD FLOOR
 A003 SCALE: 1/4" = 1'-0"



SEE 1/A004 FOR CONTINUATION

KEY PLAN



501 Summer Street, Ste. 503, Honolulu, Hawaii 96817
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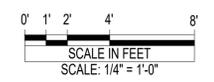
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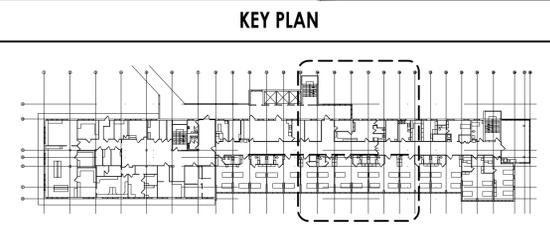
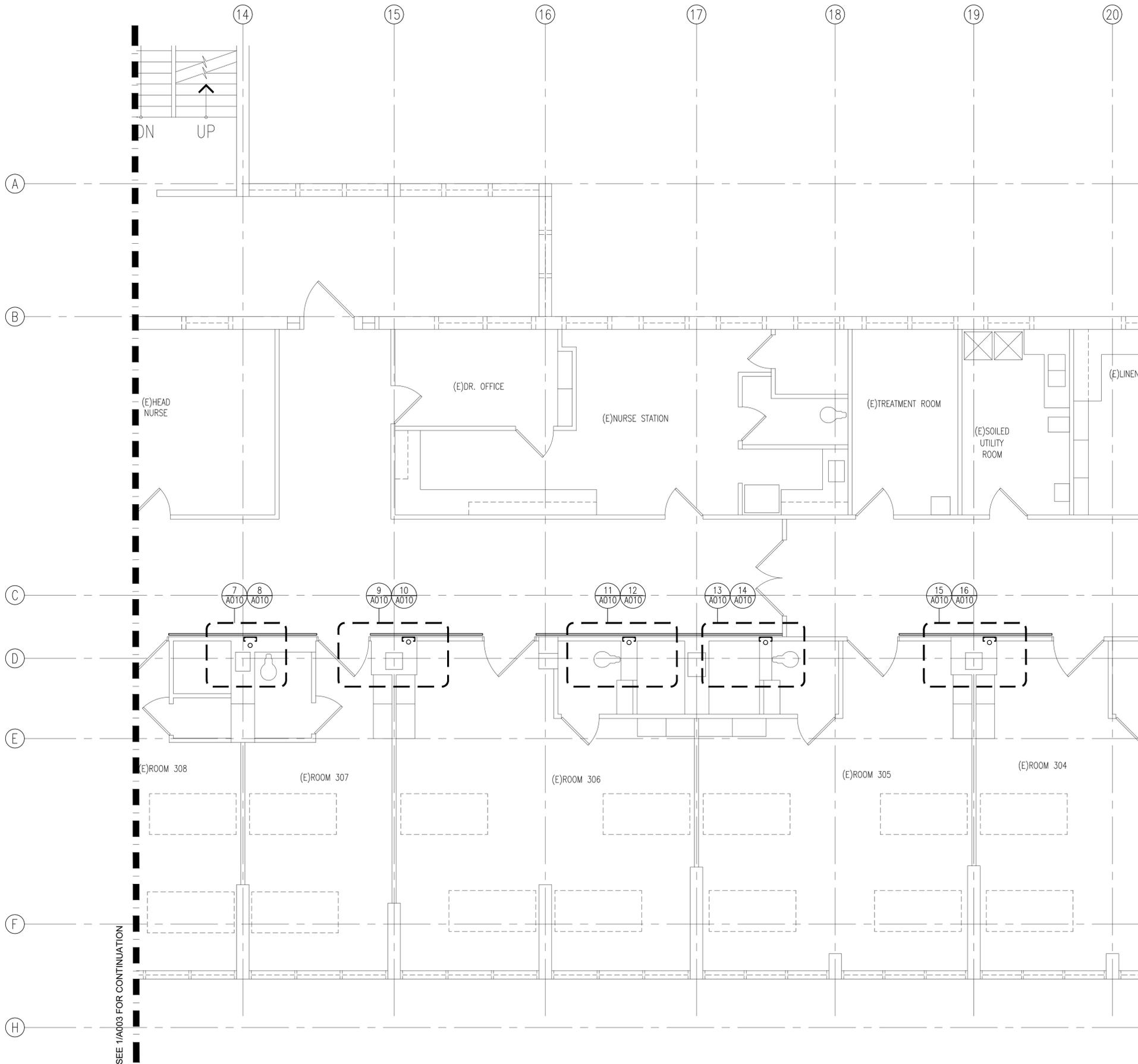
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		DESCRIPTION	

LEAHI HOSPITAL YOUNG BUILDING SEWER LINE REPLACEMENT
 3675 KILAUEA AVENUE, HONOLULU, HI 96816
 TMK: 3-2-031001
 PARTIAL DEMOLITION AND NEW FLOOR PLAN – THIRD FLOOR

Project Number: 2025.035
 Date: 12/2025
 Drawn: DM
 Checked: CM
 Designed: CM

Drawing Number: **A003**
 Sheet No. 5 of 34





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NO	DESCRIPTION

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3675 KILAUEA AVENUE, HONOLULU, HI 96816
TMK: 3-2-031001

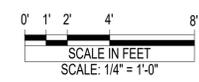
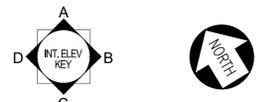
PARTIAL DEMOLITION AND NEW FLOOR PLAN - THIRD FLOOR

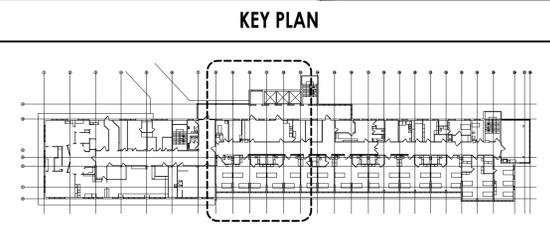
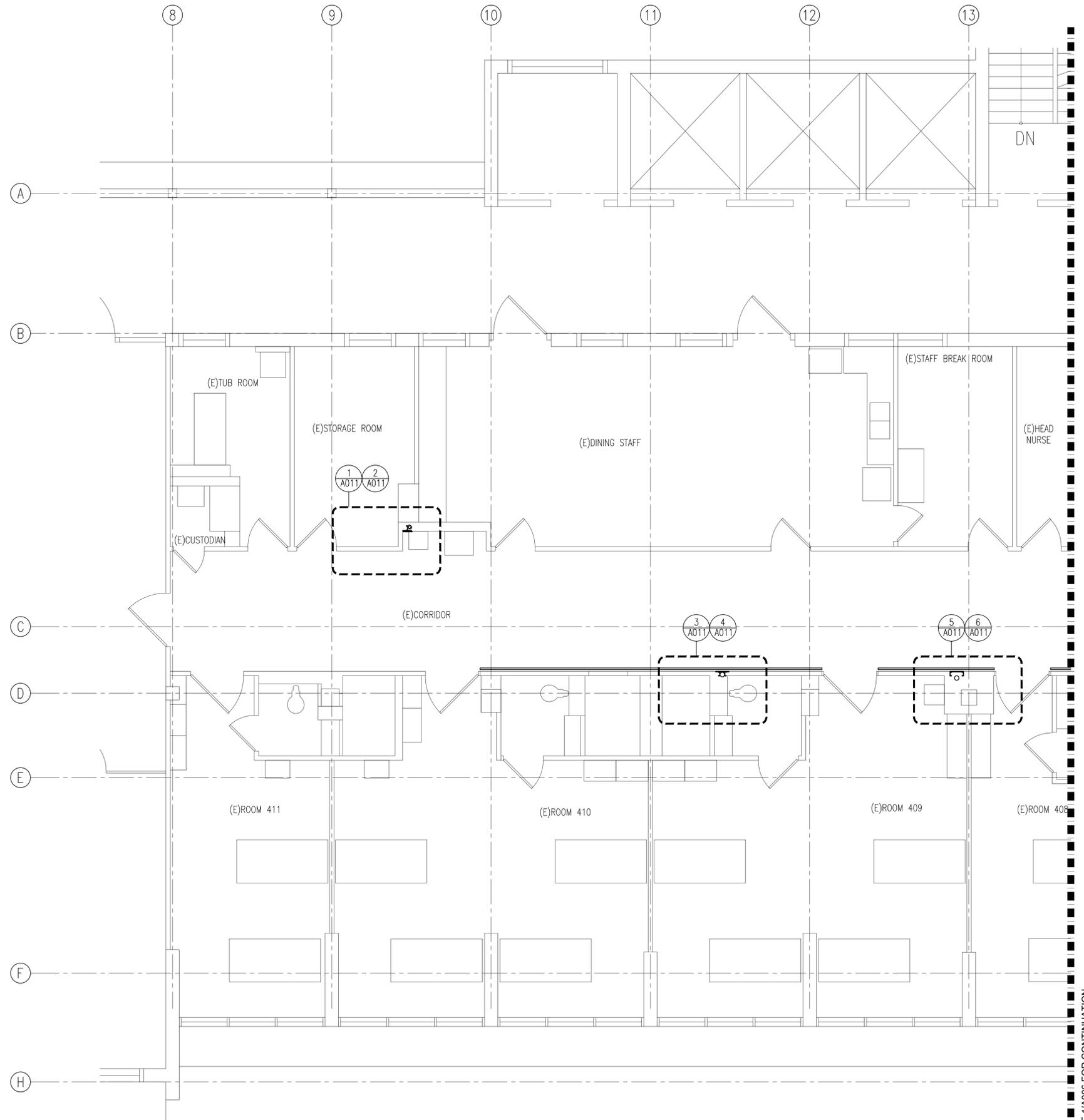
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Drawn DM	Checked CM
	Designed CM

Drawing Number
A004

Sheet No. **6** of **34**

1 PARTIAL DEMOLITION AND NEW FLOOR PLAN - THIRD FLOOR
A004 SCALE: 1/4" = 1'-0"





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NO	DESCRIPTION

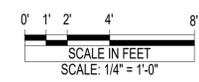
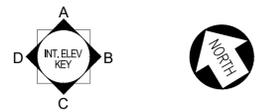
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 TMK: 3-2-031001

PARTIAL DEMOLITION AND NEW FLOOR PLAN - FOURTH FLOOR

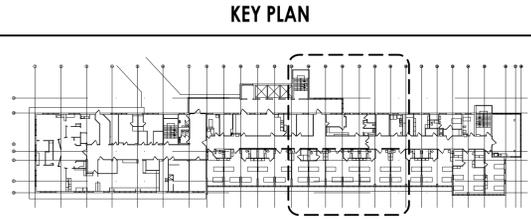
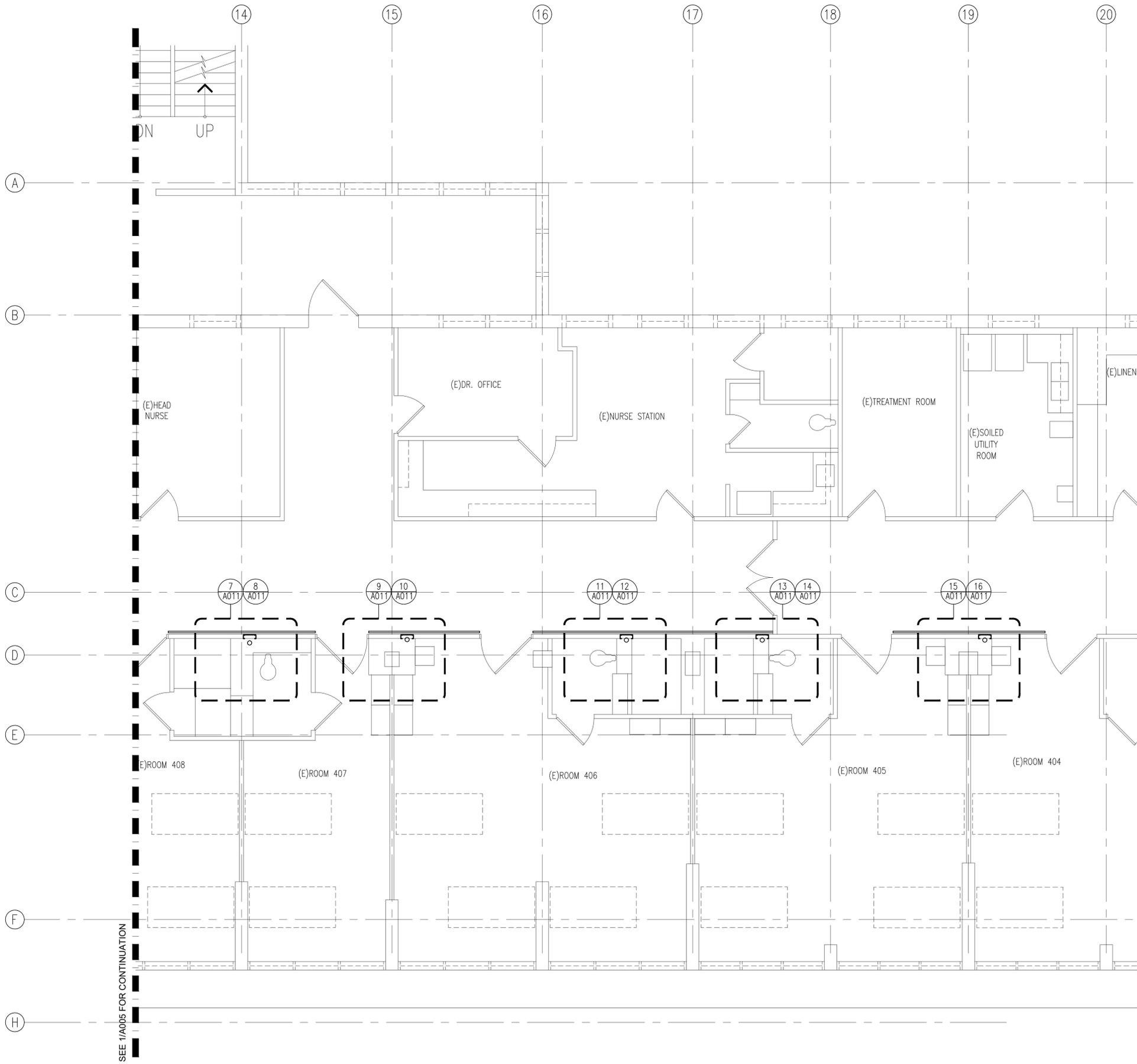
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Drawn DM	Checked CM
	Designed CM

Drawing Number
A005
 Sheet No. 7 of 34

1
 A005
PARTIAL DEMOLITION AND NEW FLOOR PLAN - FOURTH FLOOR
 SCALE: 1/4" = 1'-0"



SEE 1/A006 FOR CONTINUATION



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Expiration Date: 4-30-26

REVISIONS		NO	DATE	DESCRIPTION

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3675 KILAUEA AVENUE, HONOLULU, HI 96816
TMK: 3-2-031001

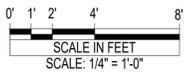
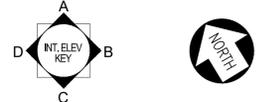
PARTIAL DEMOLITION AND NEW FLOOR PLAN - FOURTH FLOOR

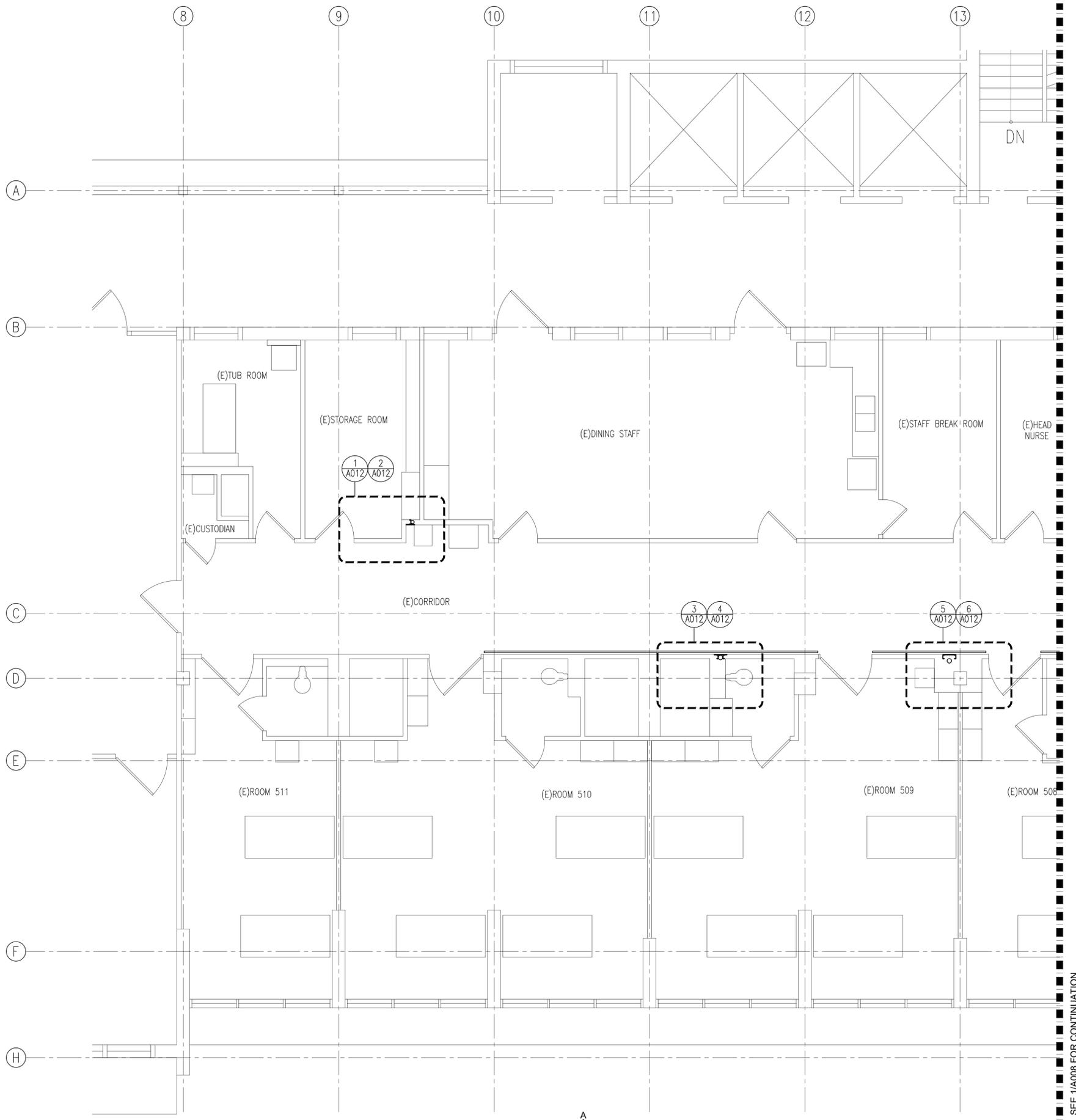
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Drawn DM	Checked CM	Designed CM

Drawing Number
A006

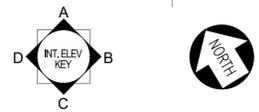
Sheet No. **8** of **34**

1 PARTIAL DEMOLITION AND NEW FLOOR PLAN - FOURTH FLOOR
A006 SCALE: 1/4" = 1'-0"



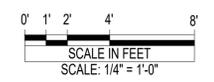
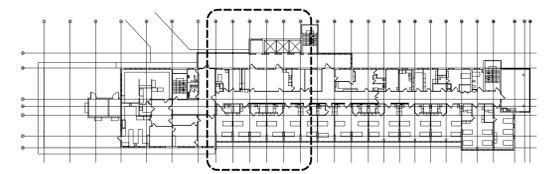


1 PARTIAL DEMOLITION AND NEW FLOOR PLAN – FIFTH FLOOR
 A007 SCALE: 1/4" = 1'-0"



SEE 1/A008 FOR CONTINUATION

KEY PLAN



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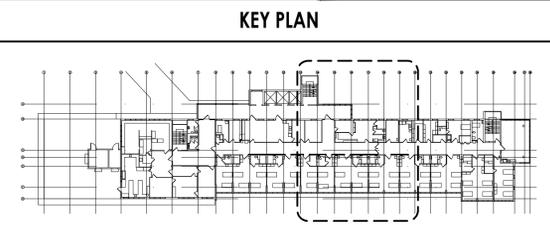
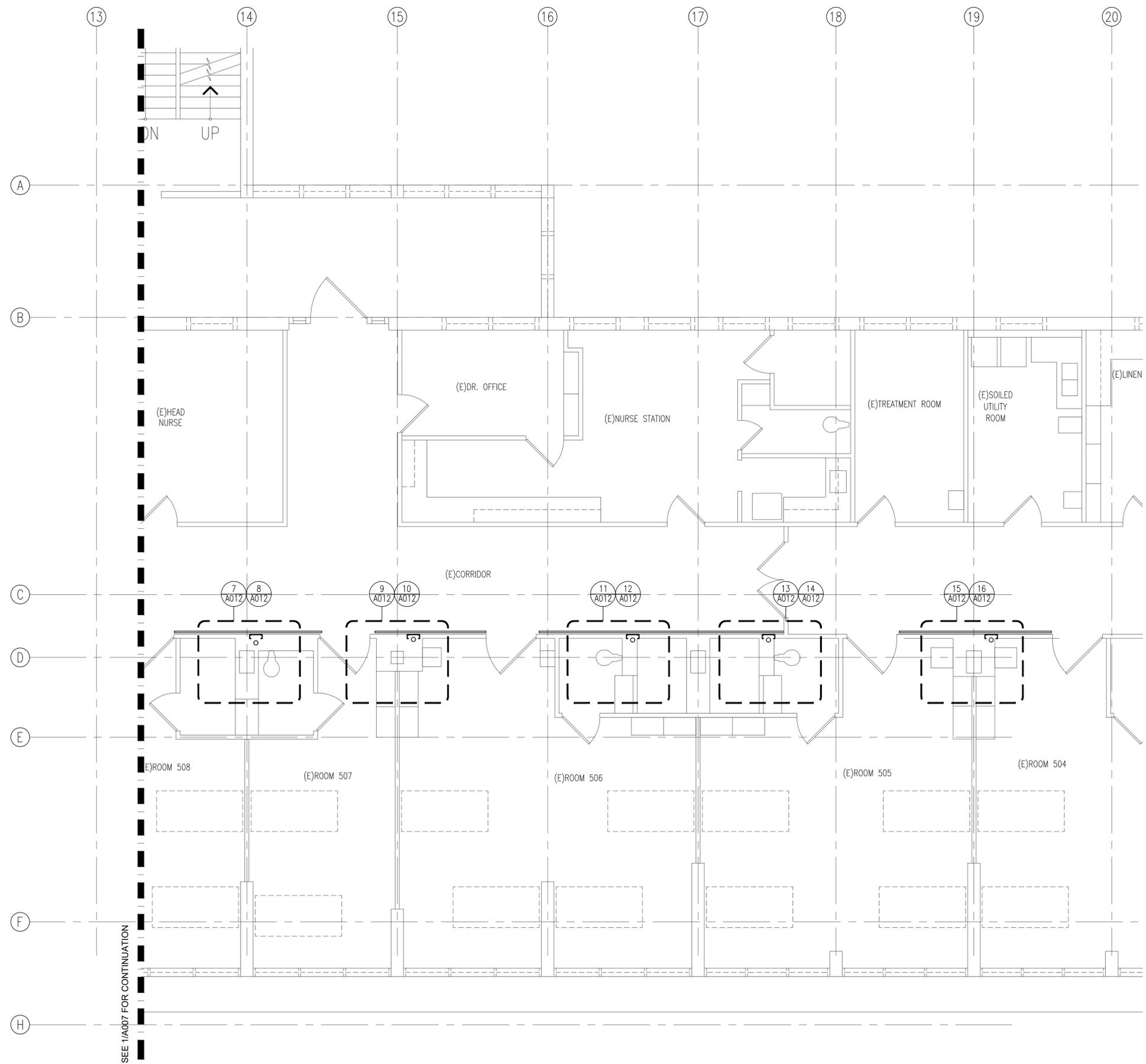
REVISIONS	
NO	DESCRIPTION

LEAHI HOSPITAL YOUNG BUILDING SEWER LINE REPLACEMENT
 3675 KILAUEA AVENUE, HONOLULU, HI 96816
 TMK: 3-2-031001

PARTIAL DEMOLITION AND NEW FLOOR PLAN – FIFTH FLOOR

Project Number 2025.035	Date 12/2025
Drawn DM	Checked CM
	Designed CM

Drawing Number
A007
 Sheet No. 9 of 34



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REVISIONS	
NO	DESCRIPTION

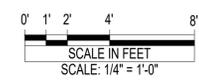
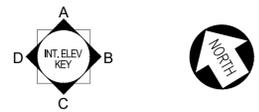
LEAHI HOSPITAL YOUNG BUILDING SEWER LINE REPLACEMENT
 3675 KILAUEA AVENUE, HONOLULU, HI 96816
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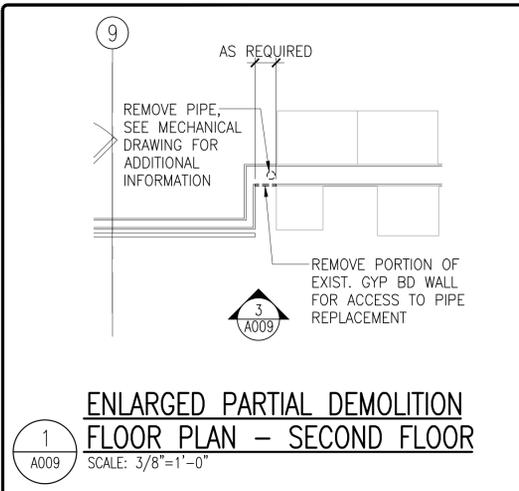
PARTIAL DEMOLITION AND NEW FLOOR PLAN - FIFTH FLOOR

Project Number 2025.035	Date 12/2025
Drawn DM	Checked CM
	Designed CM

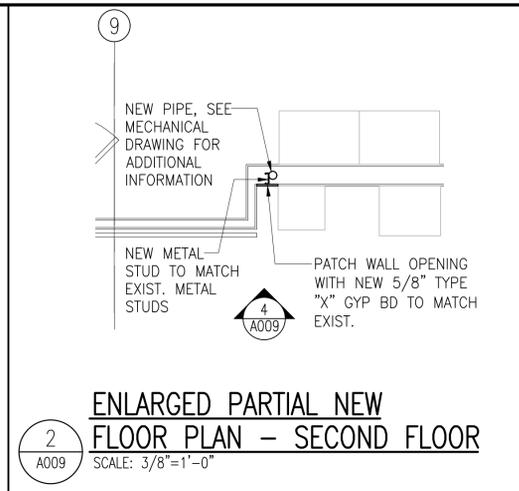
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A008
 Sheet No. 10 of 34

1 PARTIAL DEMOLITION AND NEW FLOOR PLAN - FIFTH FLOOR
 A008 SCALE: 1/4" = 1'-0"

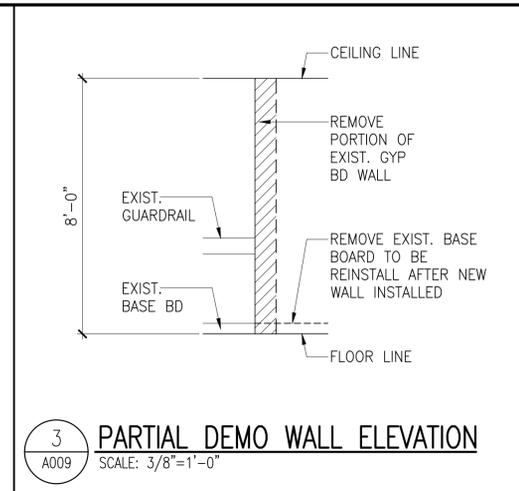




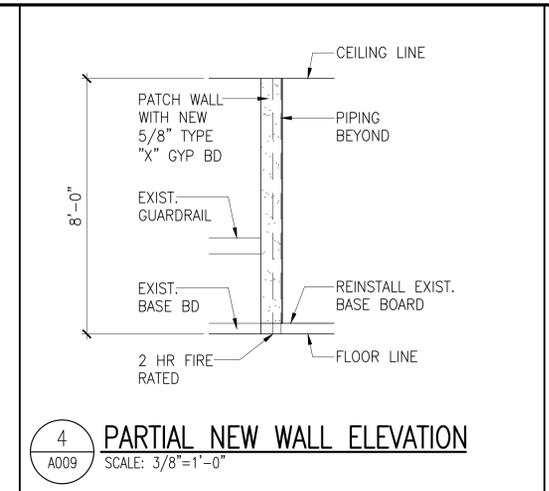
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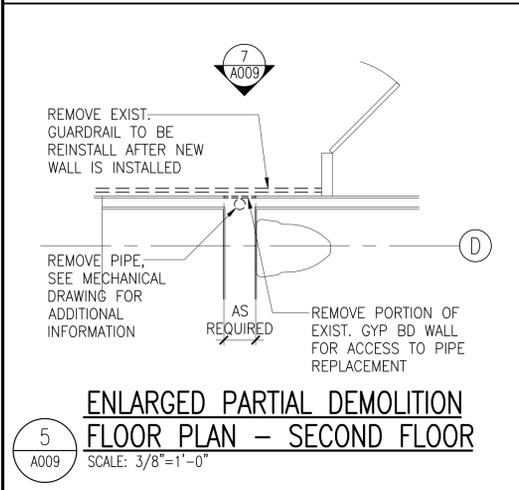
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SCALE: 3/8"=1'-0"



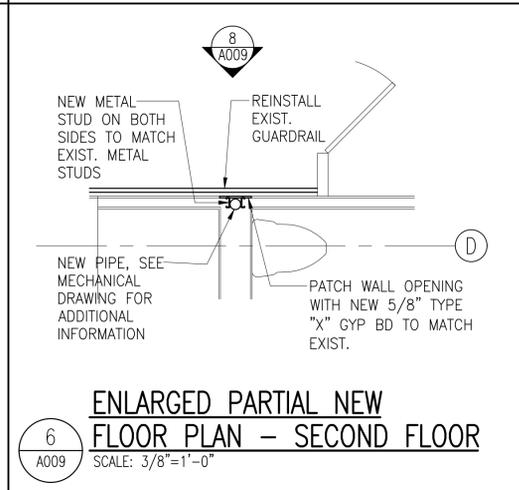
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SCALE: 3/8"=1'-0"



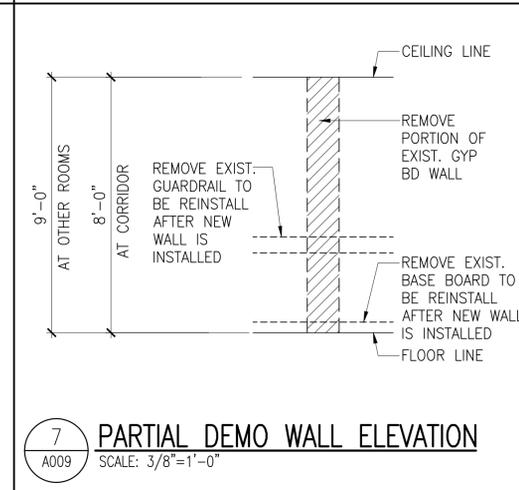
4 PARTIAL NEW WALL ELEVATION
SCALE: 3/8"=1'-0"



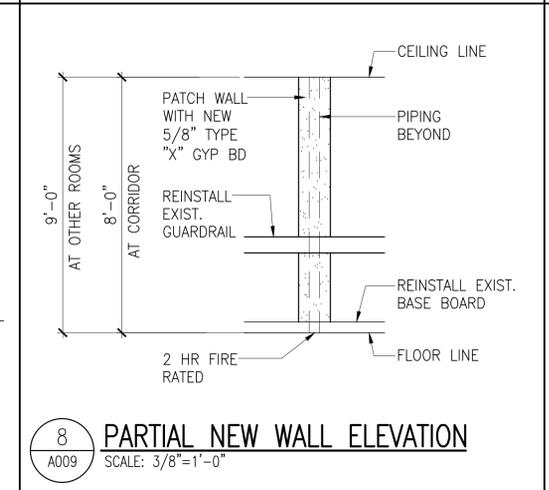
5 ENLARGED PARTIAL DEMOLITION FLOOR PLAN - SECOND FLOOR
SCALE: 3/8"=1'-0"



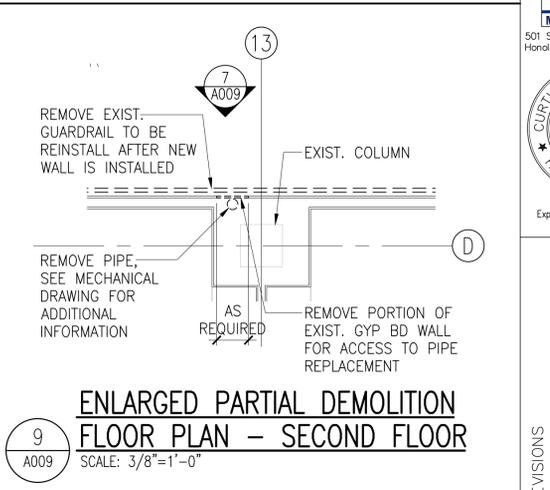
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SCALE: 3/8"=1'-0"



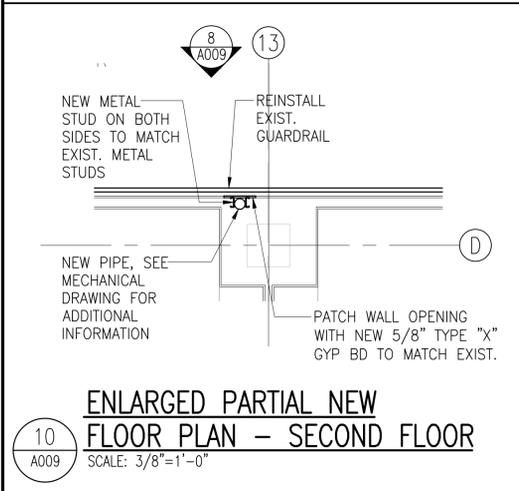
7 PARTIAL DEMO WALL ELEVATION
SCALE: 3/8"=1'-0"



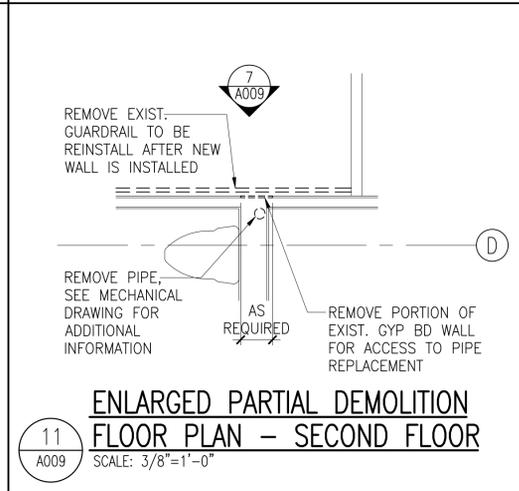
8 PARTIAL NEW WALL ELEVATION
SCALE: 3/8"=1'-0"



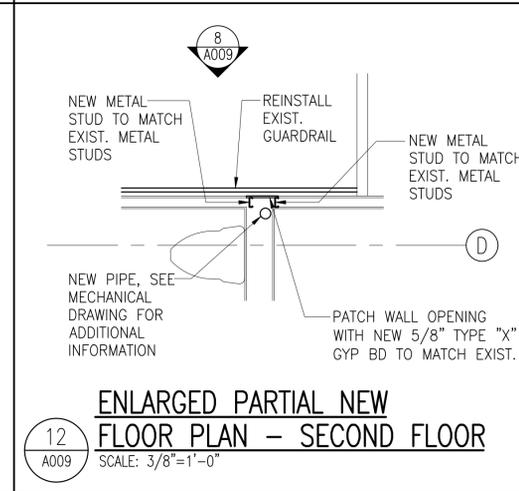
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SCALE: 3/8"=1'-0"



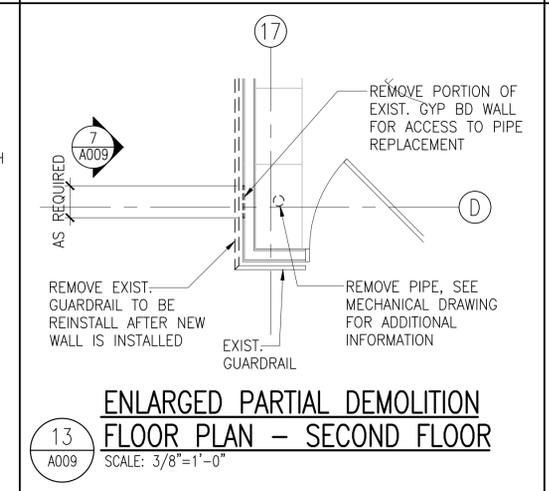
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SCALE: 3/8"=1'-0"



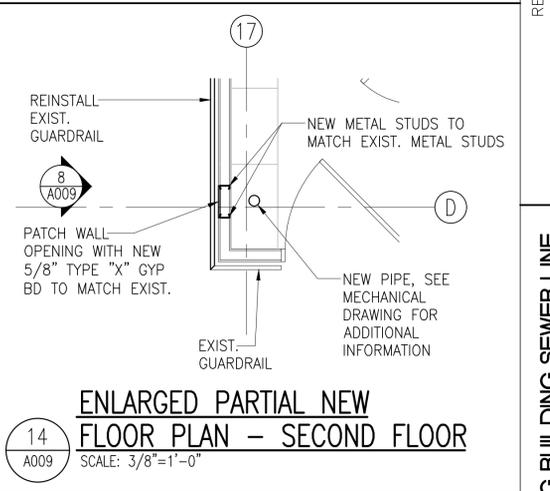
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SCALE: 3/8"=1'-0"



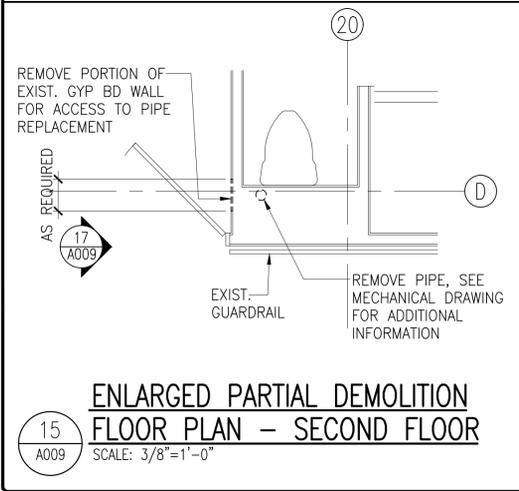
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SCALE: 3/8"=1'-0"



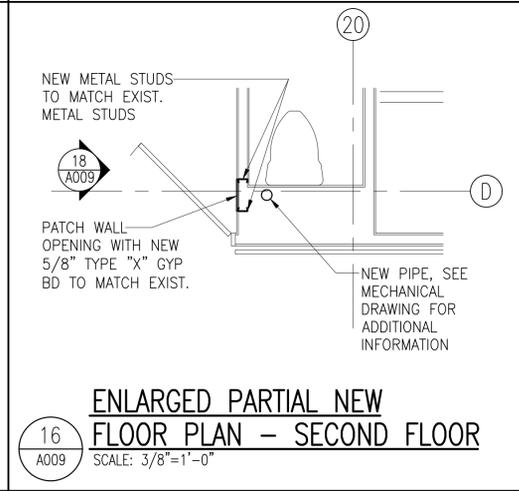
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SCALE: 3/8"=1'-0"



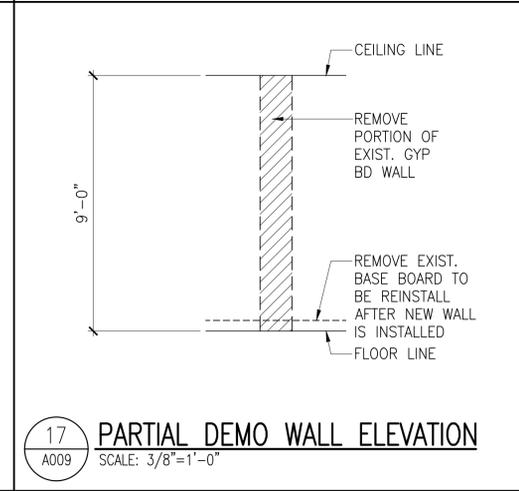
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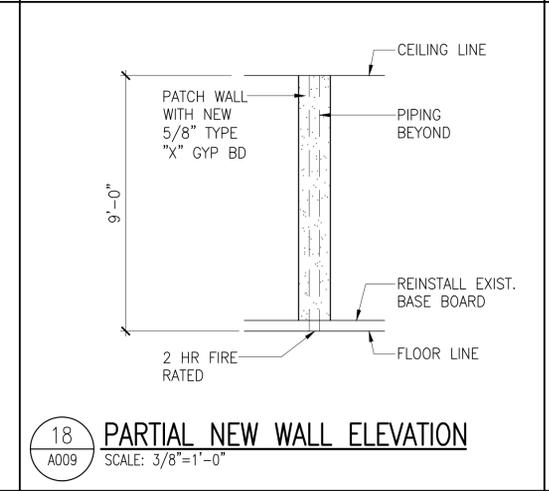
15 ENLARGED PARTIAL DEMOLITION FLOOR PLAN - SECOND FLOOR
SCALE: 3/8"=1'-0"



16 ENLARGED PARTIAL NEW FLOOR PLAN - SECOND FLOOR
SCALE: 3/8"=1'-0"



17 PARTIAL DEMO WALL ELEVATION
SCALE: 3/8"=1'-0"



18 PARTIAL NEW WALL ELEVATION
SCALE: 3/8"=1'-0"

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CURTIS K. MIYANAGA
LICENSED PROFESSIONAL ARCHITECT
No. 6268
HAWAII, U.S.A.

This work was prepared by me or under my supervision and construction of this project will be under my observation.

Expiration Date: 4-30-26

NO	DATE	DESCRIPTION

LEAHI HOSPITAL YOUNG BUILDING SEWER LINE REPLACEMENT

3675 KILAUEA AVENUE, HONOLULU, HI 96816

TMK: 3-2-031001

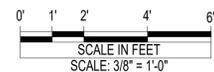
DETAIL PLANS AND ELEVATIONS

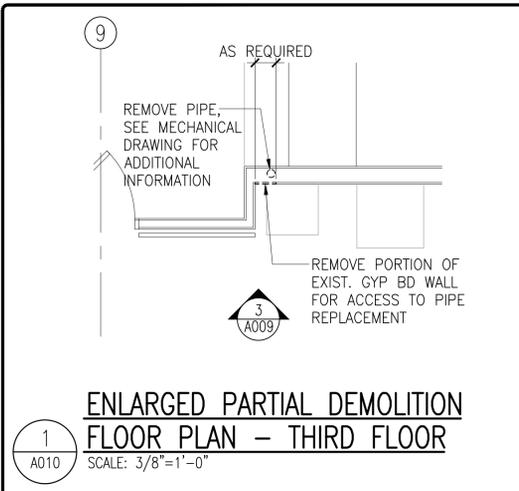
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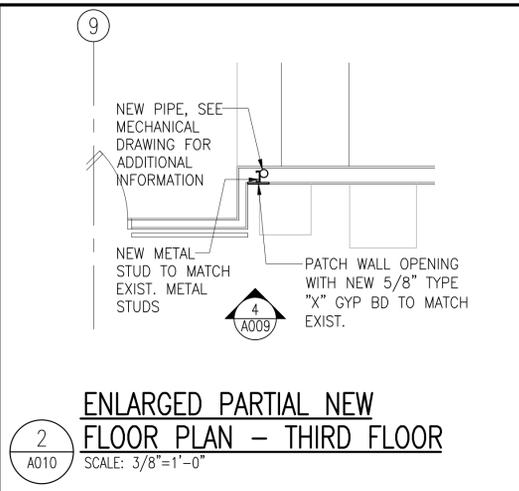
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Sheet No. 11 of 34

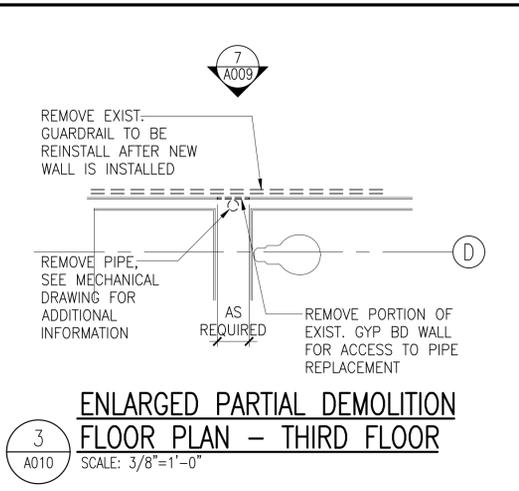




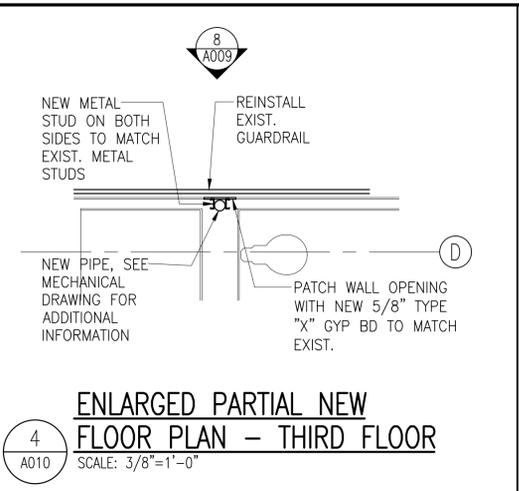
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SCALE: 3/8"=1'-0"



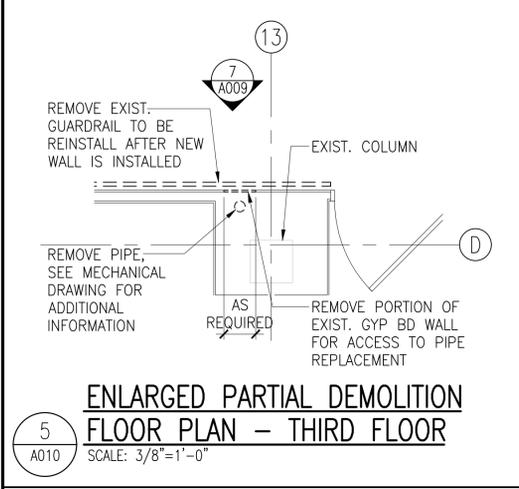
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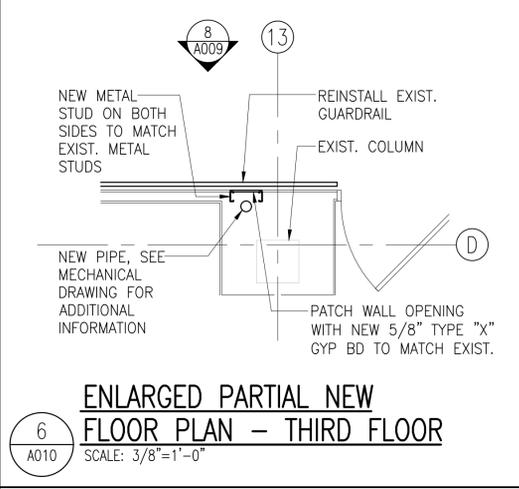
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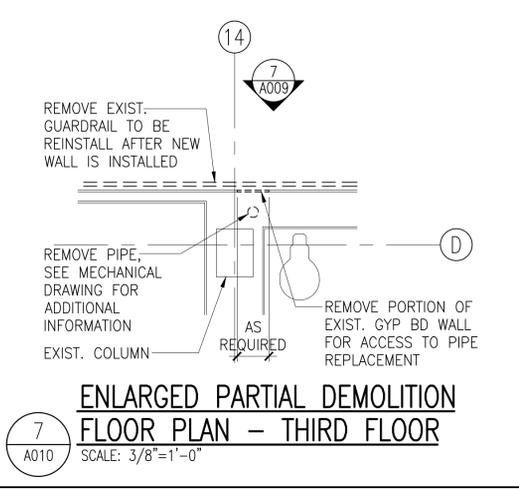
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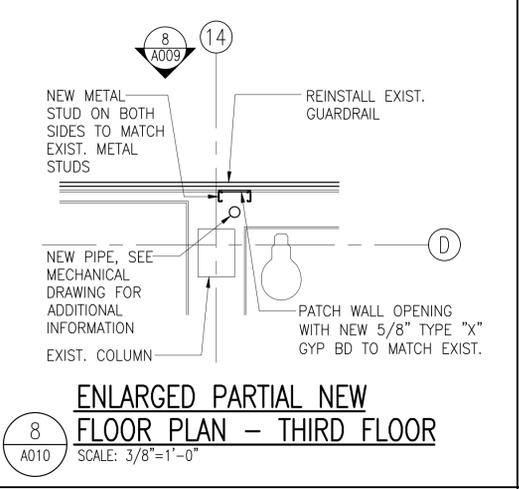
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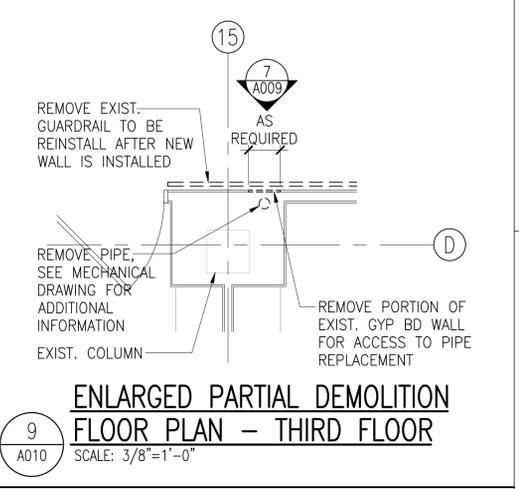
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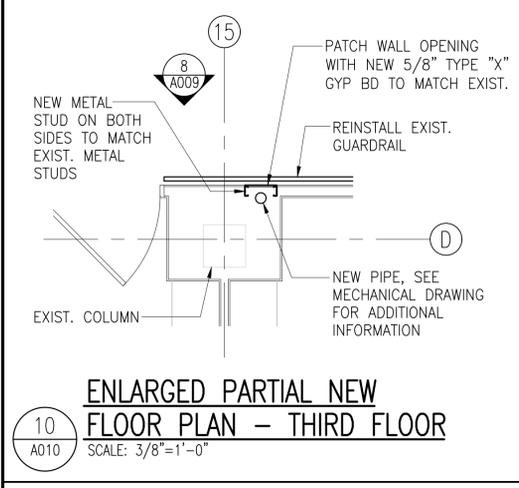
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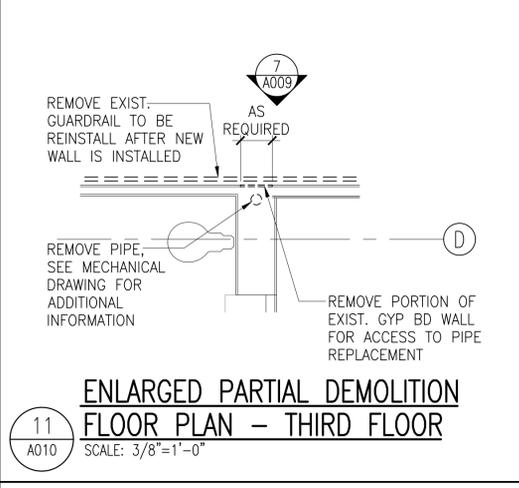
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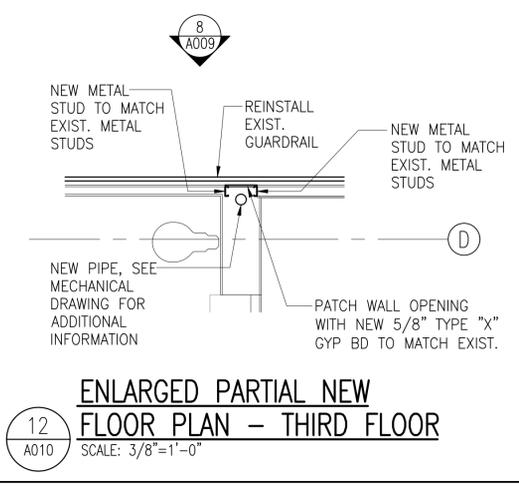
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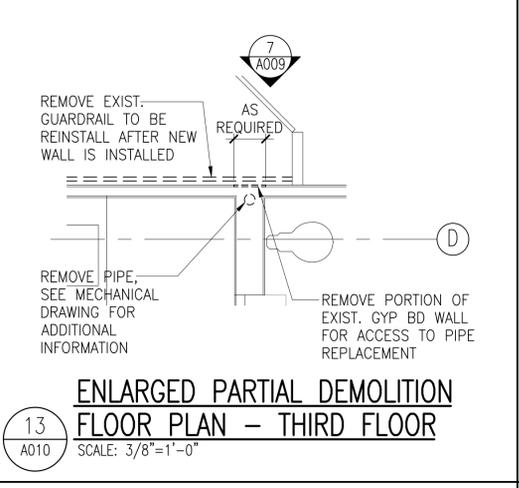
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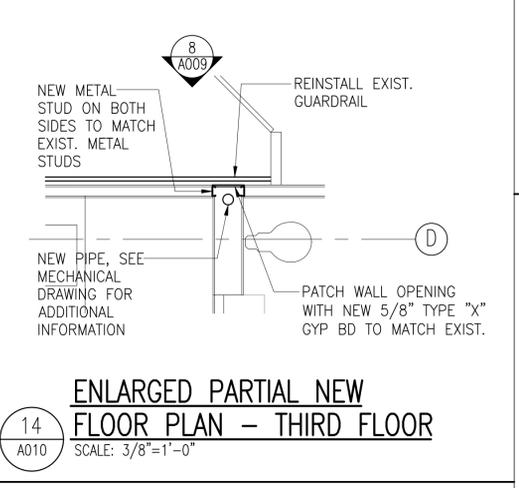
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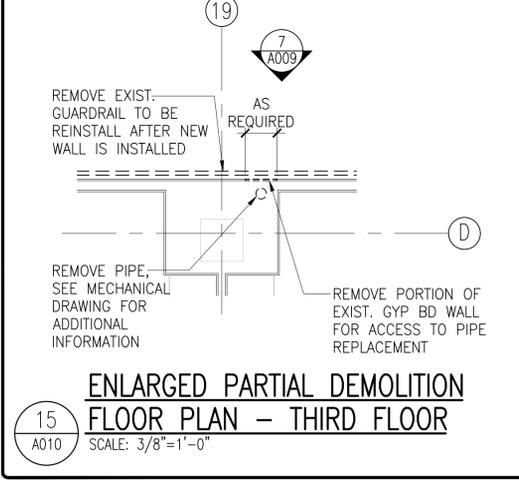
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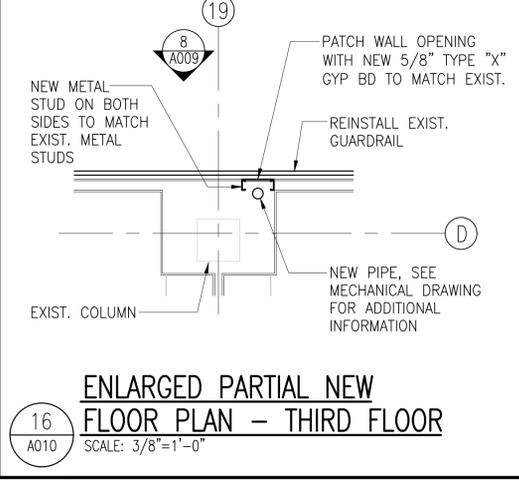
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SCALE: 3/8"=1'-0"



14
A010
ENLARGED PARTIAL NEW FLOOR PLAN - THIRD FLOOR
SCALE: 3/8"=1'-0"



15
A010
ENLARGED PARTIAL DEMOLITION FLOOR PLAN - THIRD FLOOR
SCALE: 3/8"=1'-0"



16
A010
ENLARGED PARTIAL NEW FLOOR PLAN - THIRD FLOOR
SCALE: 3/8"=1'-0"

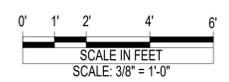
MEI
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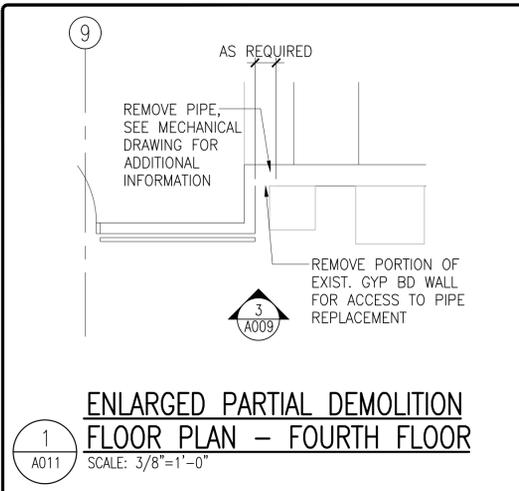
CURTIS K. MIYANAGA
LICENSED PROFESSIONAL ARCHITECT
No. 6268
HAWAII, U.S.A.
Curtis K. Miyama
This work was prepared by me or under my supervision and construction of this project will be under my observation.
Expiration Date: 4-30-26

NO	DATE	REVISIONS DESCRIPTION

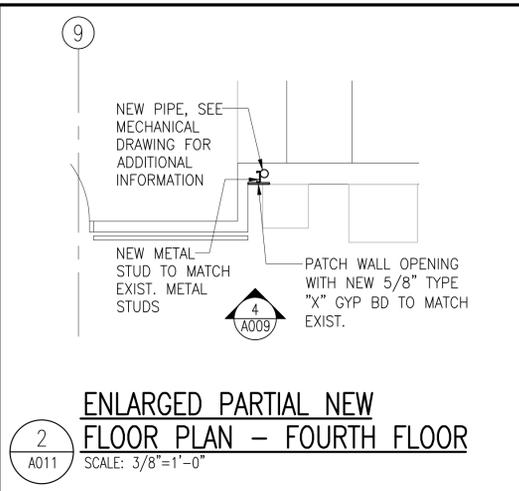
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DETAIL PLANS AND ELEVATIONS

Project Number: 2025.035 Date: 12/2025
Drawn: DM Checked: CM Designed: CM
Drawing Number: **A010**
Sheet No. **12** of 34

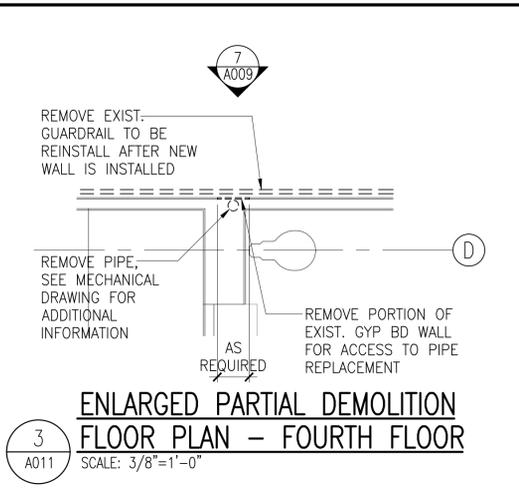




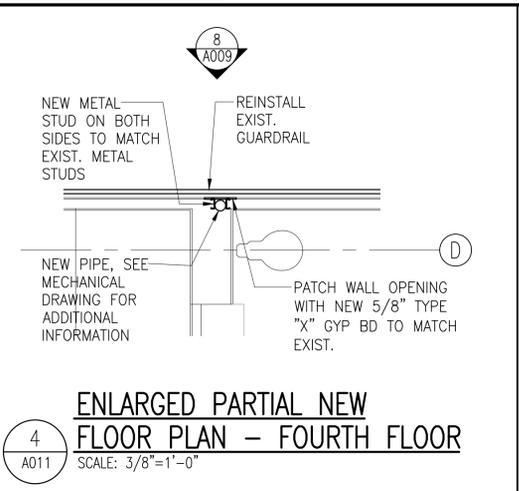
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SCALE: 3/8"=1'-0"



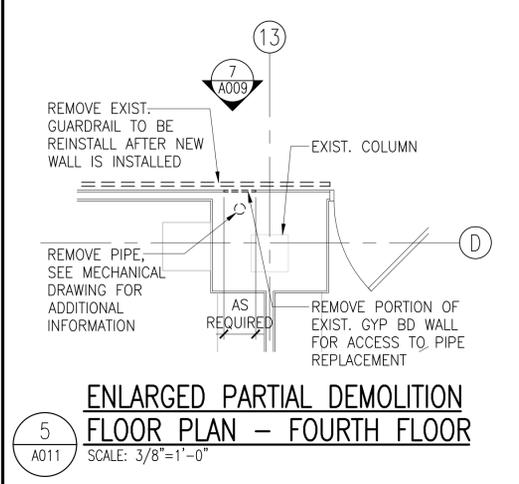
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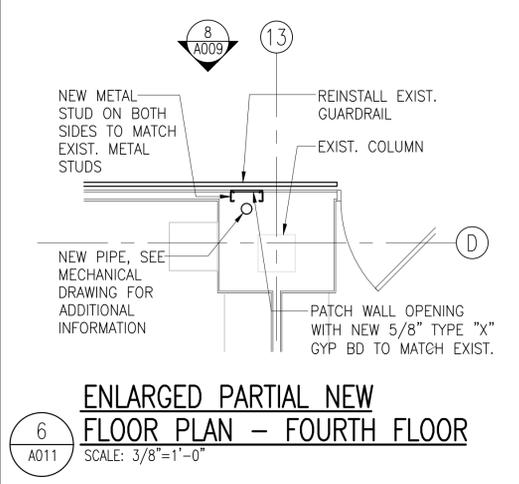
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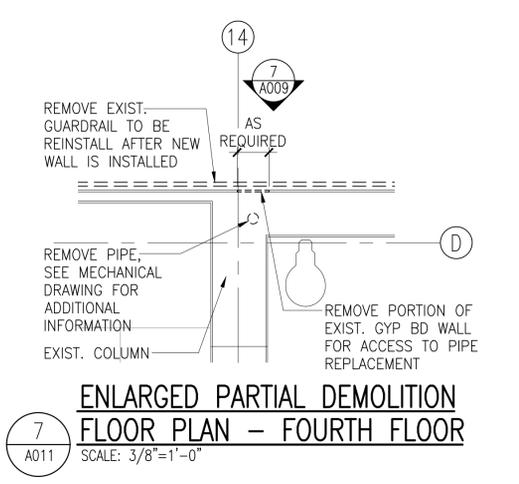
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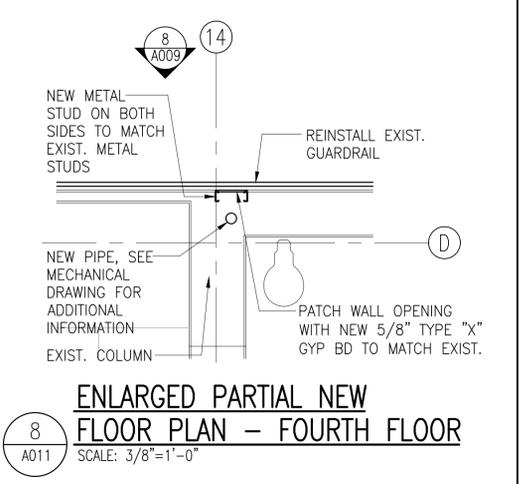
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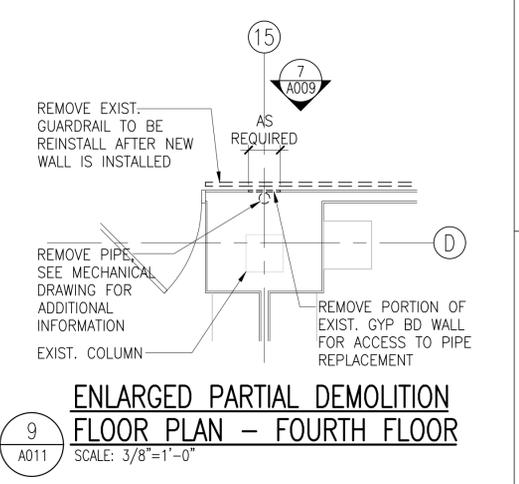
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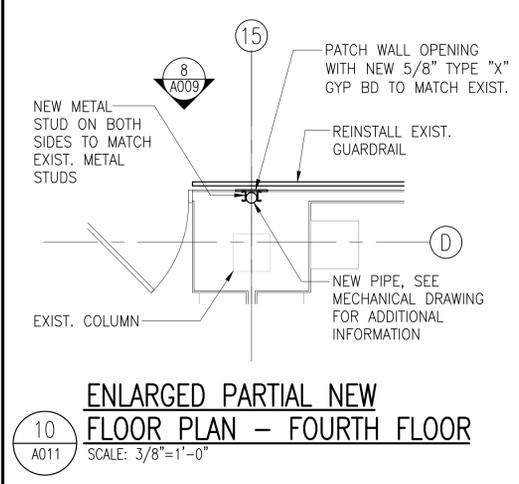
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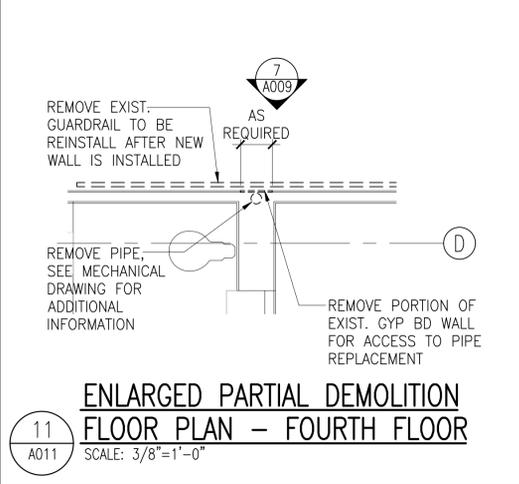
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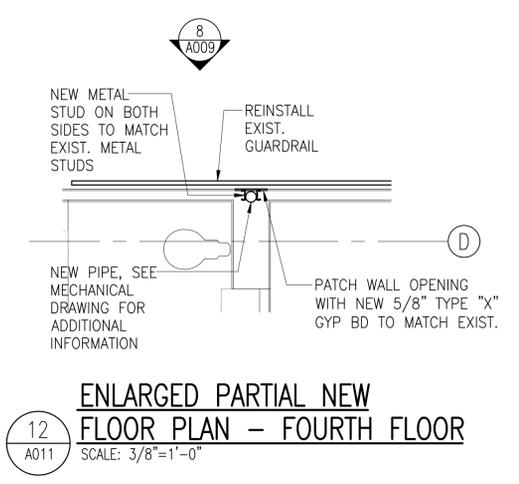
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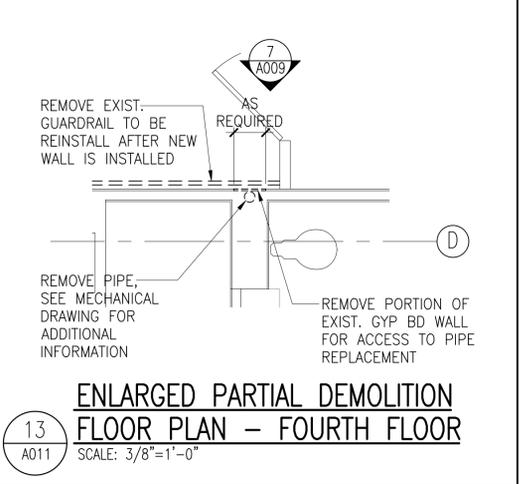
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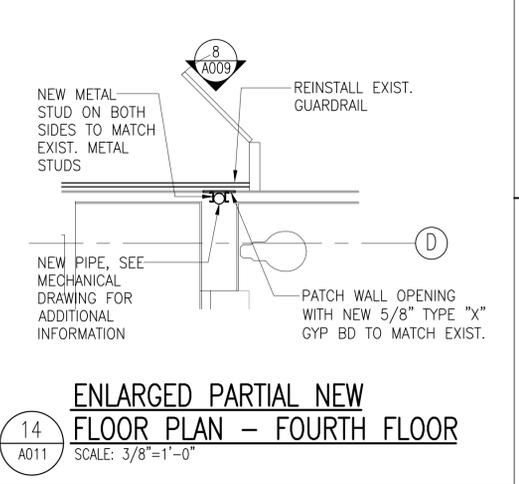
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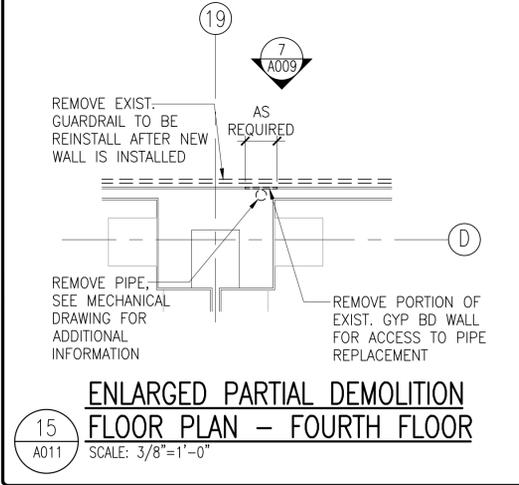
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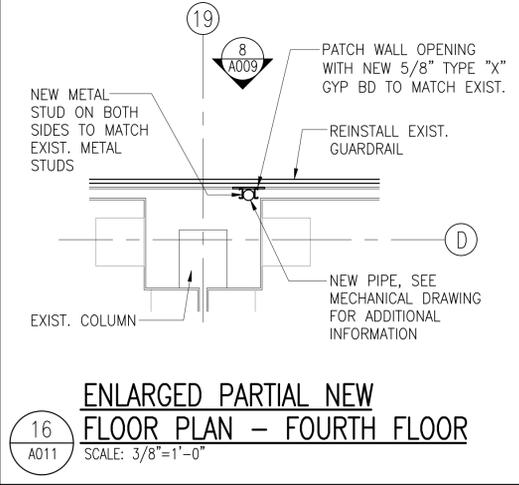
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SCALE: 3/8"=1'-0"



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SCALE: 3/8"=1'-0"



15
A011
ENLARGED PARTIAL DEMOLITION FLOOR PLAN - FOURTH FLOOR
SCALE: 3/8"=1'-0"



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ENLARGED PARTIAL NEW FLOOR PLAN - FOURTH FLOOR
SCALE: 3/8"=1'-0"

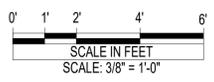
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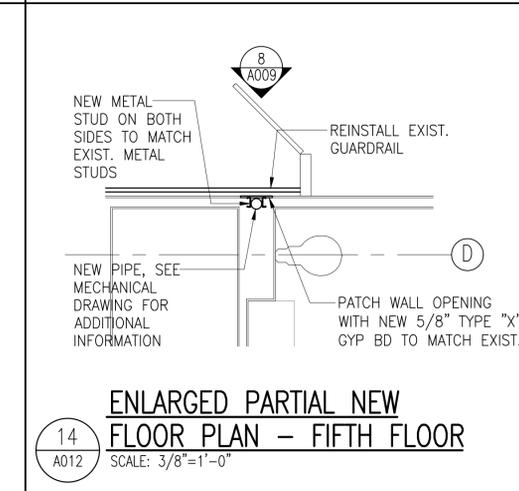
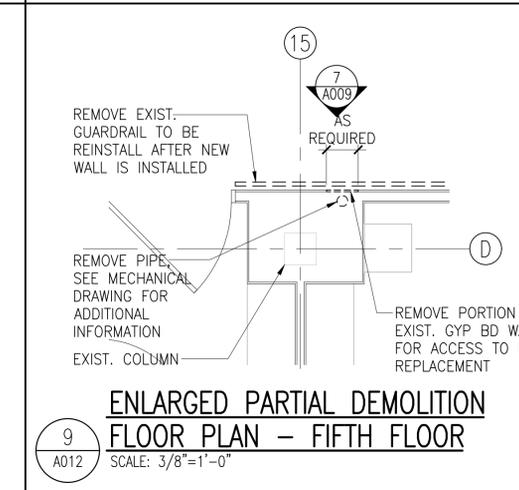
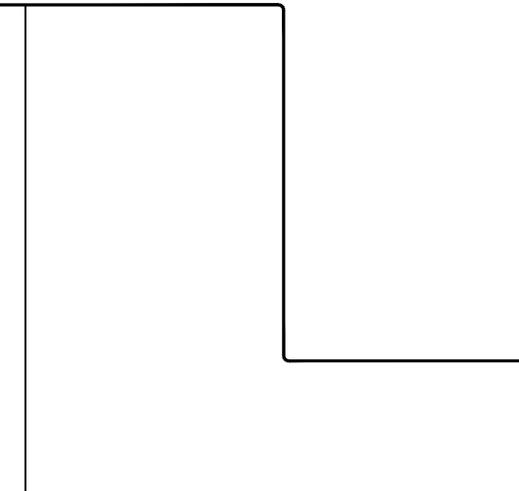
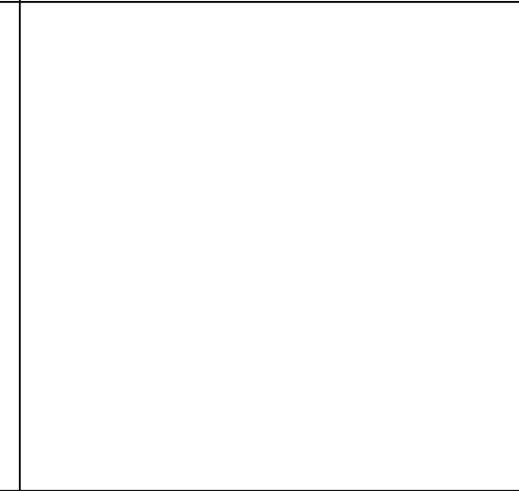
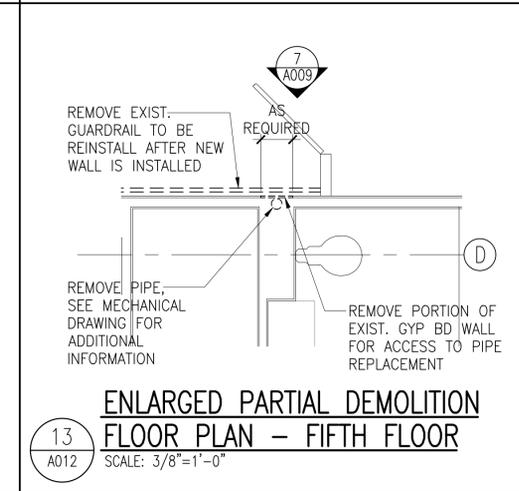
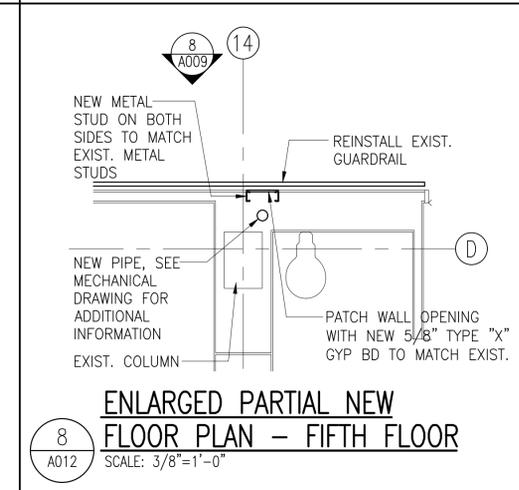
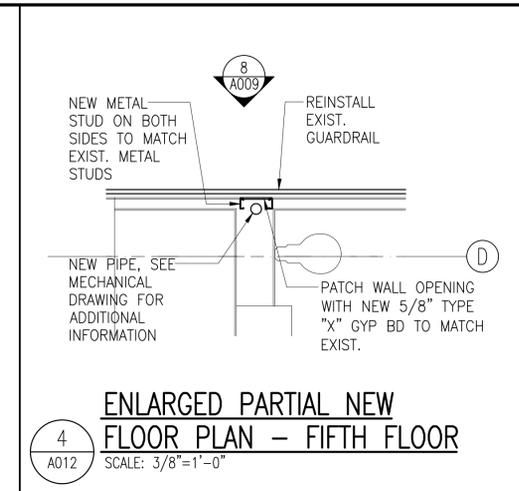
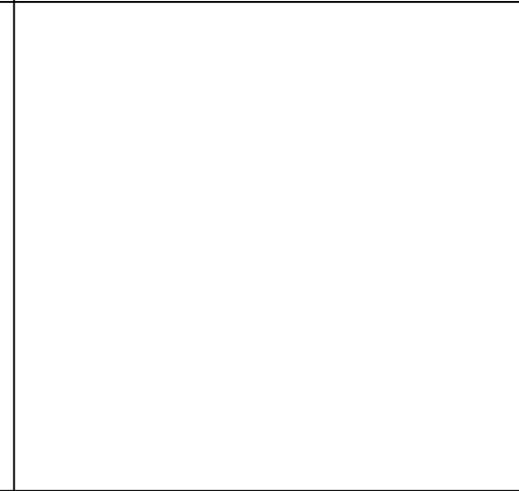
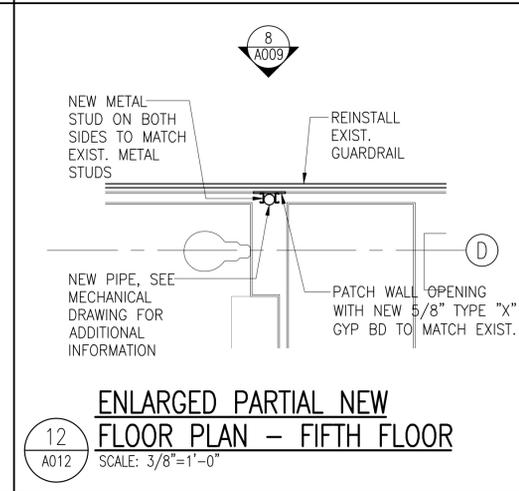
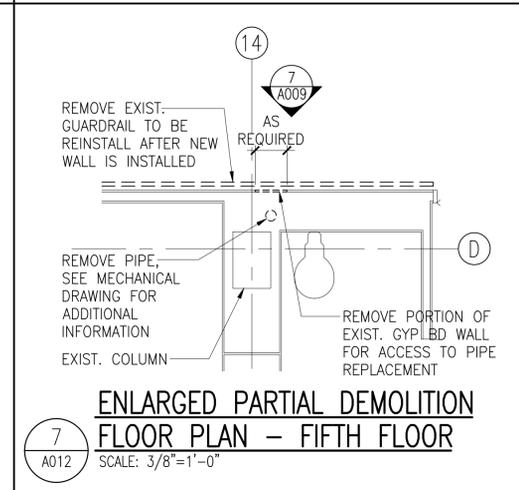
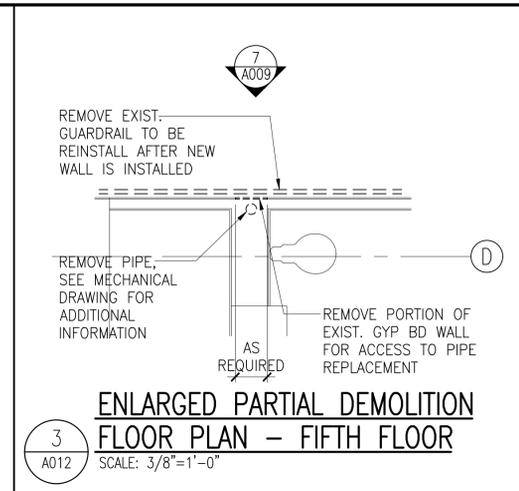
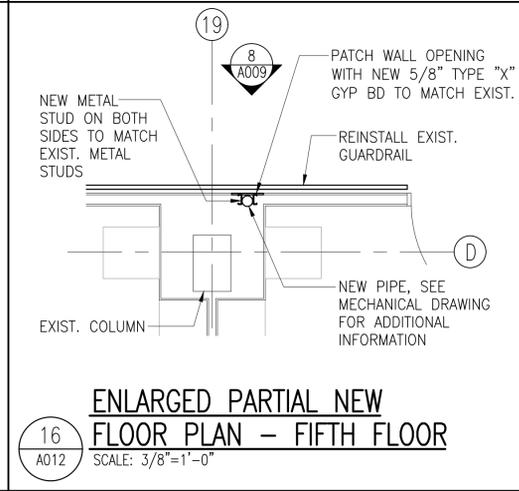
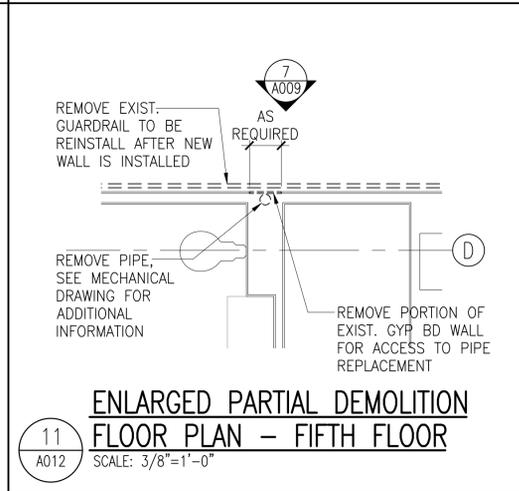
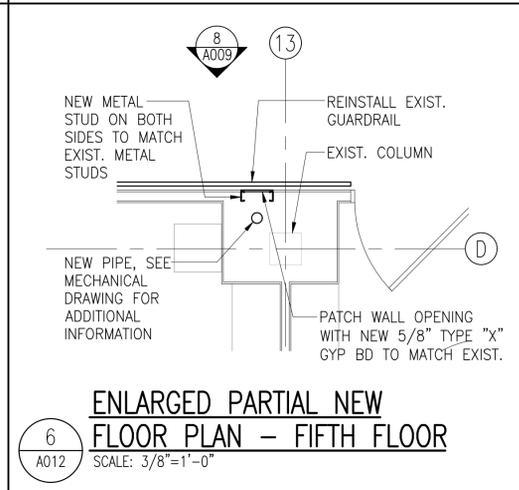
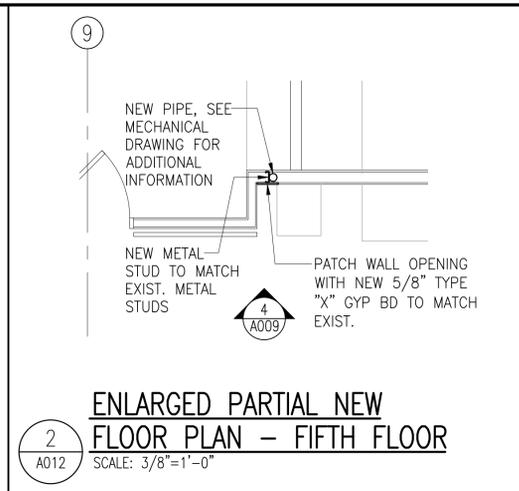
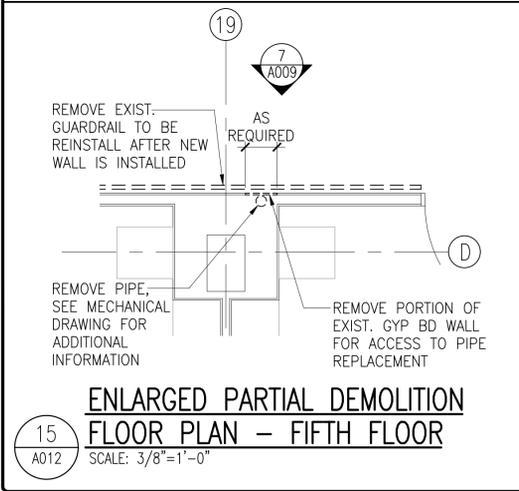
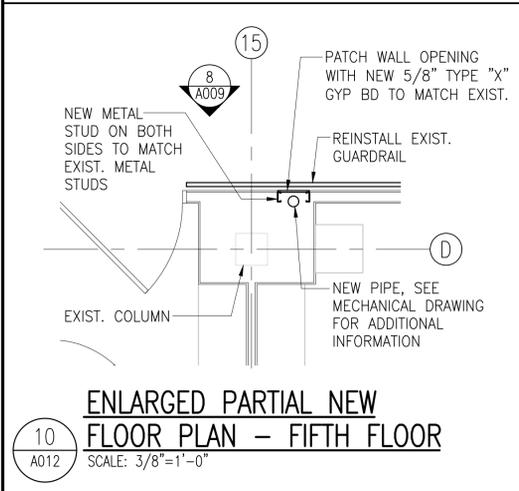
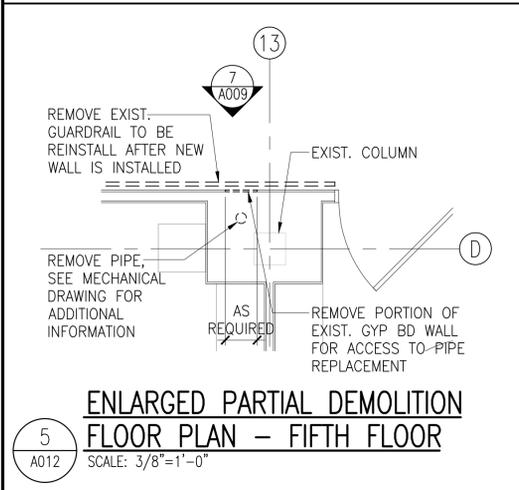
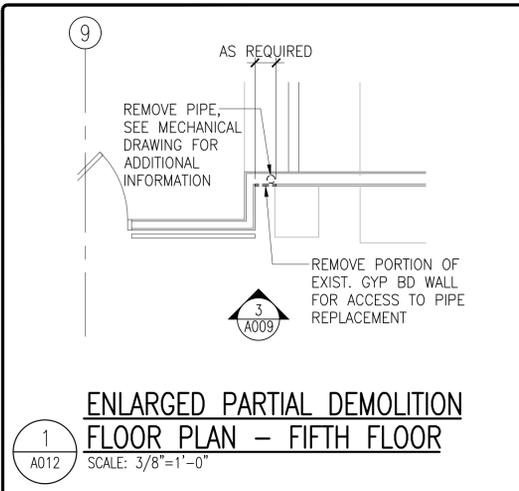
CURTIS K. MIYANAGA
LICENSED PROFESSIONAL ARCHITECT
No. 6268
HAWAII, U.S.A.
Curtis K. Miyama
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Expiration Date: 4-30-26

NO	DATE	REVISIONS DESCRIPTION

LEAHI HOSPITAL YOUNG BUILDING SEWER LINE REPLACEMENT
3675 KILAUEA AVENUE, HONOLULU, HI 96816
TMK: 3-2-031001
DETAIL PLANS AND ELEVATIONS

Project Number: 2025.035 Date: 12/2025
Drawn: DM Checked: CM Designed: CM
Drawing Number: **A011**
Sheet No. 13 of 34





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Mechanical & Fire Protection Engineers

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LEAHI HOSPITAL YOUNG BUILDING SEWER LINE REPLACEMENT

3675 KILAUEA AVENUE, HONOLULU, HI 96816
TMK: 3-2-031001

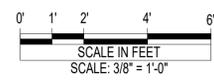
DETAIL PLANS AND ELEVATIONS

Project Number: 2025.035 Date: 12/2025

Drawn: DM Checked: CM Designed: CM

Drawing Number: **A012**

Sheet No. 14 of 34



GENERAL NOTES:

- CONFORM TO ALL REQUIREMENTS OF THE 2018 IBC AND 2021 UPC CODES OF THE CITY AND COUNTY OF HONOLULU, STATE OF HAWAII HEALTH REGULATIONS, FIRE DEPARTMENT REGULATIONS, MANUFACTURER'S RECOMMENDATIONS AND OTHER APPLICABLE REGULATIONS.
- EXAMINE ALL PROJECT PLANS AND BECOME FAMILIAR WITH ALL EXISTING CONDITIONS AND THE EXTENT OF REMOVAL PRIOR TO BIDDING. NOTIFY AND COORDINATE WITH THE ENGINEER FOR ANY MAJOR DEVIATIONS OR DISCREPANCIES DISCOVERED IN THE PLANS AND SPECIFICATIONS DUE TO UNFORESEEN OR VARYING FIELD CONDITIONS.
- CONTRACTOR SHALL VERIFY ALL FIELD CONDITIONS PRIOR TO BID AND CONSTRUCTION
- CONTRACTOR SHALL FIELD VERIFY ALL EXISTING LINE SIZES, CONDITIONS, AND INVERTS PRIOR TO BID AND CONSTRUCTION.
- THE DRAWINGS AND SPECIFICATIONS ARE INTENDED TO COVER THE COMPLETE INSTALLATION OF SYSTEMS TO FUNCTION AS DESCRIBED AND SPECIFIED. THE OMISSION OF REFERENCE TO ANY NECESSARY ITEM OF LABOR OR MATERIAL SHALL NOT RELIEVE THE CONTRACTOR FROM PROVIDING SUCH LABOR AND MATERIAL AT NO ADDITIONAL COST TO THE OWNER.
- PAY FOR ALL PERMITS AND APPLICATIONS.
- PREPARE SIX (6) SETS OF SHOP DRAWINGS SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO THE START OF WORK. NO REPRODUCTIONS OF ANY KIND OF THE CONTRACT DOCUMENTS SHALL BE ACCEPTABLE AS SHOP DRAWINGS. PROVIDE ONE SET OF REPRODUCIBLE AS-BUILT DRAWINGS SHOWING THE ACTUAL INSTALLED CONDITIONS AND SUBMIT TO THE OWNERS UPON COMPLETION OF WORK.
- CAULK ALL PENETRATIONS WATERTIGHT. PROVIDE ALL CUTTING, PATCHING, AND RESTORING OF EXISTING SURFACES TO MATCH ORIGINAL SURFACE FINISHES. SPOT PAINT TO MATCH EXISTING SURFACES/COLOR.
- LOCATE ALL UTILITY LINES OR OTHER INTERFERENCES IN AREAS OF PROPOSED WORK PRIOR TO START OF WORK. REPAIR OR PAY FOR ALL DAMAGES TO EXISTING UTILITIES.
- SHOULD PROJECT CONDITIONS REQUIRE REARRANGEMENT OF WORK, MARK SUCH CHANGES ON THE AS-BUILT DRAWINGS. IF THESE CHANGES REQUIRE ALTERNATE METHODS TO THOSE APPROVED BY THE CONTRACT DOCUMENTS, SUBMIT SHOP DRAWINGS SHOWING THE PROPOSED ALTERNATE METHODS TO THE ARCHITECT/ENGINEER FOR REVIEW/APPROVAL PRIOR TO PROCEEDING WITH WORK.
- COORDINATE ALL WORK WHICH WILL AFFECT AREAS WITH BUILDING SUPERVISOR. SCHEDULE OFF-HOUR WORK WHEN REQUIRED TO MINIMIZE DISRUPTIONS.
- DRAWING FILES WILL NOT BE AVAILABLE TO CONTRACTORS FOR SHOP DRAWINGS OR ANY OTHER PURPOSE.
- COORDINATE ALL WORK WITH OTHER TRADES TO AVOID INTERFERENCES AND DELAYS.

PLUMBING LEGEND

SYMBOL	ABBREV.	DESCRIPTION
GENERAL		
	ABV	ABOVE
	DEMO	DEMOLITION
∅	DIA	DIAMETER
	DN	DOWN
(E)	EXIST'G	EXISTING
	POC	POINT OF CONNECTION
	POR	POINT OF REMOVAL
(R)		REMOVE
	(TYP)	TYPICAL
	W/	WITH
PLUMBING		
⊥	CO	CLEAN OUT
	DF	DRINKING FOUNTAIN
⊖	FCO	FLOOR CLEAN OUT
⊗	FD	FLOOR DRAIN
	LAV	LAVATORY
—	S	SANITARY
	SS	SERVICE SINK
	SH	SHOWER
	SK	SINK
---	V	VENT
⊥	WCO	WALL CLEAN OUT
	WM	WASHING MACHINE
	WC	WATER CLOSET

SUGGESTED SEQUENCE OF CONSTRUCTION

THE PHASING OF THE WORK SHALL BE DONE TO MINIMIZE THE DISRUPTION TO THE BUILDING OPERATIONS. THIS PHASING SCHEME IS ONLY A SUGGESTION AND DOES NOT INCLUDE ALL PHASES OR DETAILS OF THE CONSTRUCTION WORK REQUIRED. THE CONTRACTOR IS ENCOURAGED TO IMPROVE UPON THIS SCHEDULE IF IT WILL FURTHER MINIMIZE THE DISRUPTIONS AND DOWN TIME OF THE SANITARY SYSTEM. CHANGES TO THE SCHEDULE SHALL BE SUBMITTED TO THE HHSC REPRESENTATIVE AND CONSULTANTS TO DISCUSS THE PHASING PLAN TO ENSURE THAT THE PLAN IS WORKABLE. IT IS THE INTENT OF THE MEETING TO PREPARE A CONSTRUCTION PLAN SO THAT ALL PARTIES KNOW WHAT IS BEING PLANNED. THE CONTRACTOR SHALL PRESENT THEIR PHASING PLAN AND CONSTRUCTION SCHEDULE TO HHSC REPRESENTATIVE FOR EVALUATION.

A. PHASING NOTE

- THE CONTRACTOR MUST DEVELOP A SCHEDULE FOR REVIEW BY HHSC REPRESENTATIVE. THE SEQUENCE OF WORK BELOW IS A SUGGESTION FOR CONTRACTOR'S USE FOR BIDDING.
- ALL WORK AND ACCESSORIES MUST BE INCLUDED BY ALL ASSOCIATED TRADES, EVEN IF NOT DESCRIBED, TO PROVIDE A COMPLETE SYSTEM AS INDICATED ON THE CONTRACT DRAWINGS.
- THE CONTRACTOR MUST COORDINATE ANY SHUTDOWN OF THE BUILDING UTILITIES WITH HHSC REPRESENTATIVE AND MAINTENANCE PERSONNEL.
- THE CONTRACTOR MUST TAKE INTO ACCOUNT ANY REQUIRED OFF-HOUR WORK REQUIREMENTS.
- IT WILL BE THE CONTRACTOR'S RESPONSIBILITY TO ENSURE THAT ALL MATERIALS, EQUIPMENT AND MANPOWER IS ON THE ISLAND READY FOR INSTALLATION AT THE TIME SHUTDOWN OF BUILDING SANITARY SYSTEM TO COMPLETE THE PARTICULAR AREA OF CONSTRUCTION WITHIN THE SPECIFIED TIME FRAME. HHSC REPRESENTATIVE MUST HAVE THE OPTION TO REQUEST A LETTER FROM THE CONTRACTOR ATTESTING TO THIS REQUIREMENT. THIS MAY INCLUDE A SITE VISIT TO VIEW ANY OF THE MATERIAL BY THE HHSC REPRESENTATIVE TO VERIFY THE LETTER.
- THE CONTRACTOR MUST INCLUDE ALL OVERTIME COSTS IN THEIR BID.

B. SUGGESTED SEQUENCE OF WORK

THE FOLLOWING IS A SUGGESTED SEQUENCE OF WORK.

PHASE 1: DEMOLITION AND NEW WORK WITHIN PHASE 1 AREA AS SHOWN IN ARCHITECT PLAN(PHASE 2-6 SIMILAR)

- CONTRACTOR SHALL FIELD VERIFY THE EXISTING SANITARY SYSTEM.
- CONTRACTOR SHALL CONFIRM THAT DEMOLITION OR NEW WORK WILL NOT INTERFERE WITH EXISTING SYSTEMS SERVING OTHER PHASES OF THE PROJECT.
- REMOVE SANITARY LINE AND ASSOCIATED ACCESSORIES AS NOTED IN THE PHASE 1 DEMOLITION DRAWINGS.
- INSTALL NEW SANITARY LINE AND ASSOCIATED ACCESSORIES.
- NEW SANITARY SYSTEM SERVING PHASE 1 SHALL BE FULLY FUNCTIONAL WITHOUT ANY SIGNS OF LEAKAGE PRIOR TO THE START OF PHASE 2.
- PATCH/REPAIR TO MATCH EXISTING/ADJACENT SURFACE.

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Expiration Date: 4-30-26

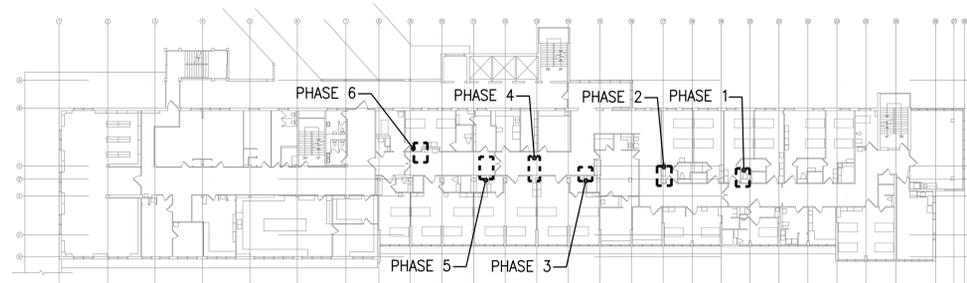
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		DESCRIPTION	

LEAHI HOSPITAL YOUNG BUILDING SEWER LINE REPLACEMENT
3675 KILAUEA AVENUE, HONOLULU, HI 96816
TMK: 3-2-031001

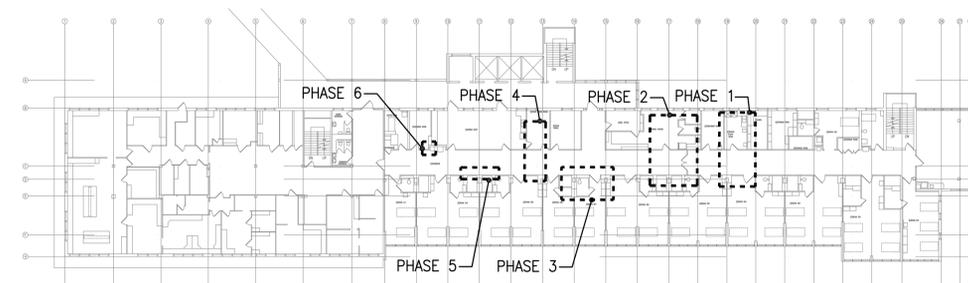
GENERAL NOTES AND PLUMBING LEGEND

Project Number 2025.035	Date 12/2025
Drawn MEI	Checked RRT
Designed MEI	

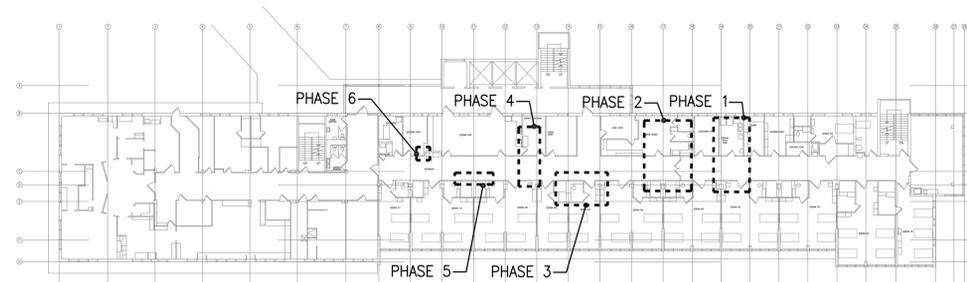
Drawing Number
M000
Sheet No. 15 of 34



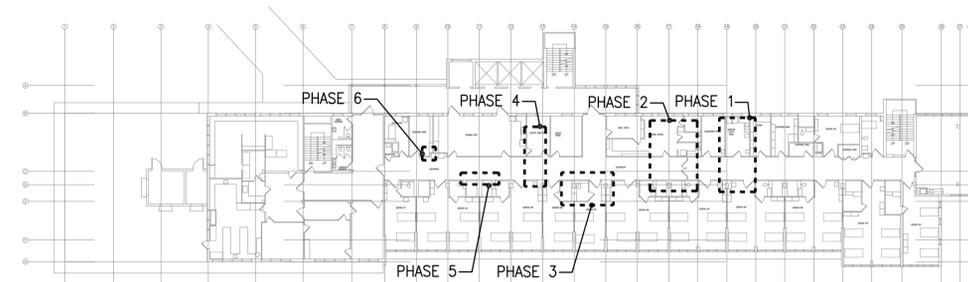
1 OVERALL PLUMBING PHASING PLAN - SECOND FLOOR
M000 SCALE: NOT TO SCALE



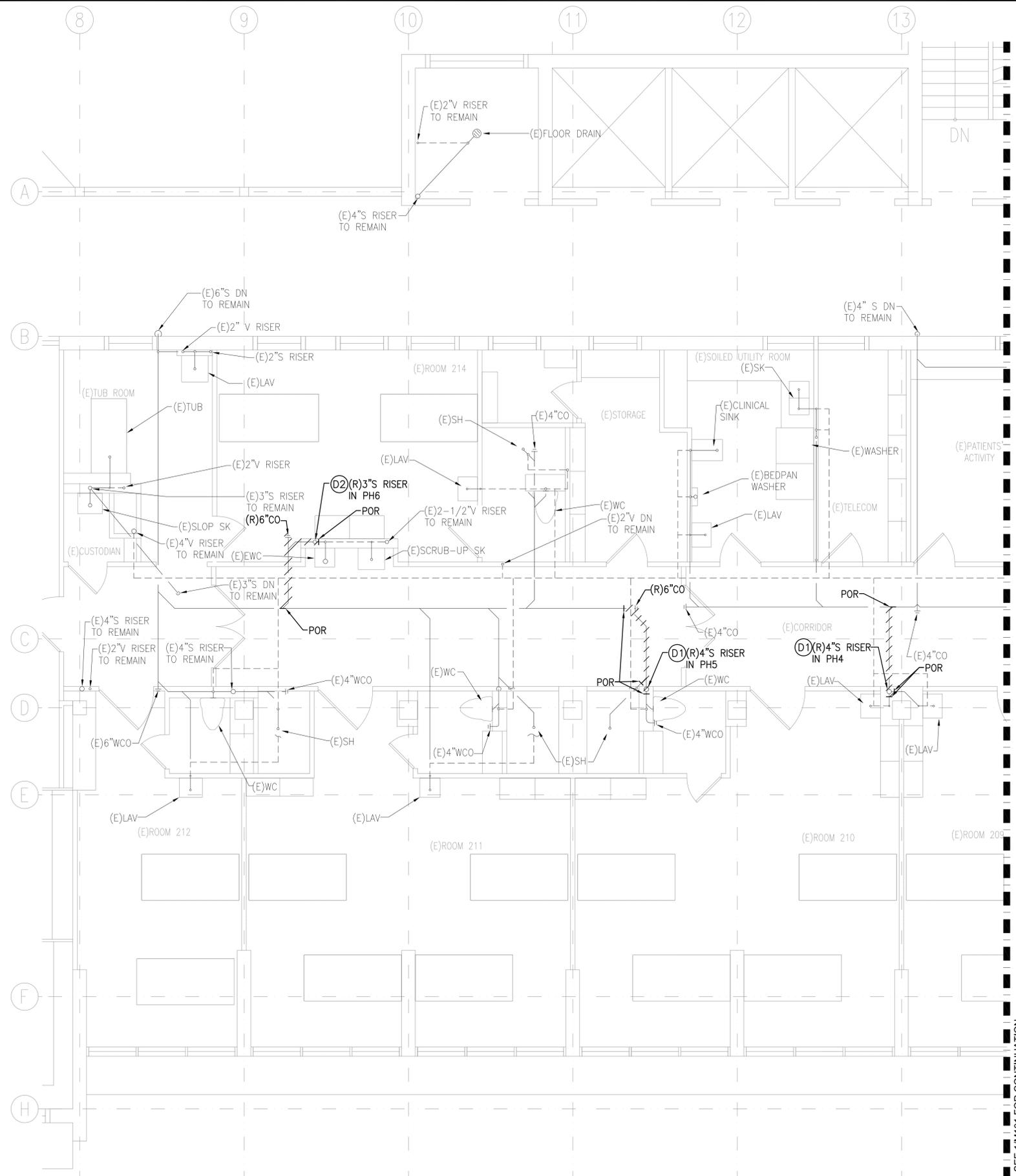
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M000 SCALE: NOT TO SCALE



3 OVERALL PLUMBING PHASING PLAN - FOURTH FLOOR
M000 SCALE: NOT TO SCALE



4 OVERALL PLUMBING PHASING PLAN - FIFTH FLOOR
M000 SCALE: NOT TO SCALE



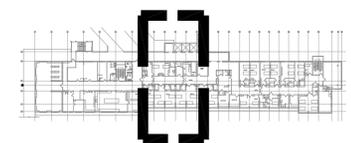
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M100 SCALE: 1/4" = 1'-0"

PLUMBING GENERAL NOTES:

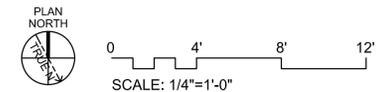
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5. PLUMBING WORK ON ASSOCIATED SANITARY LATERAL WITH THE CORRESPONDING SANITARY RISER IS INCLUDED AS PART OF THAT RESPECTIVE PHASE AS SHOWN.

DEMOLITION PLUMBING WORK NOTES:

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2 KEY PLAN
M100 SCALE: NTS



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Expiration Date: 4-30-26

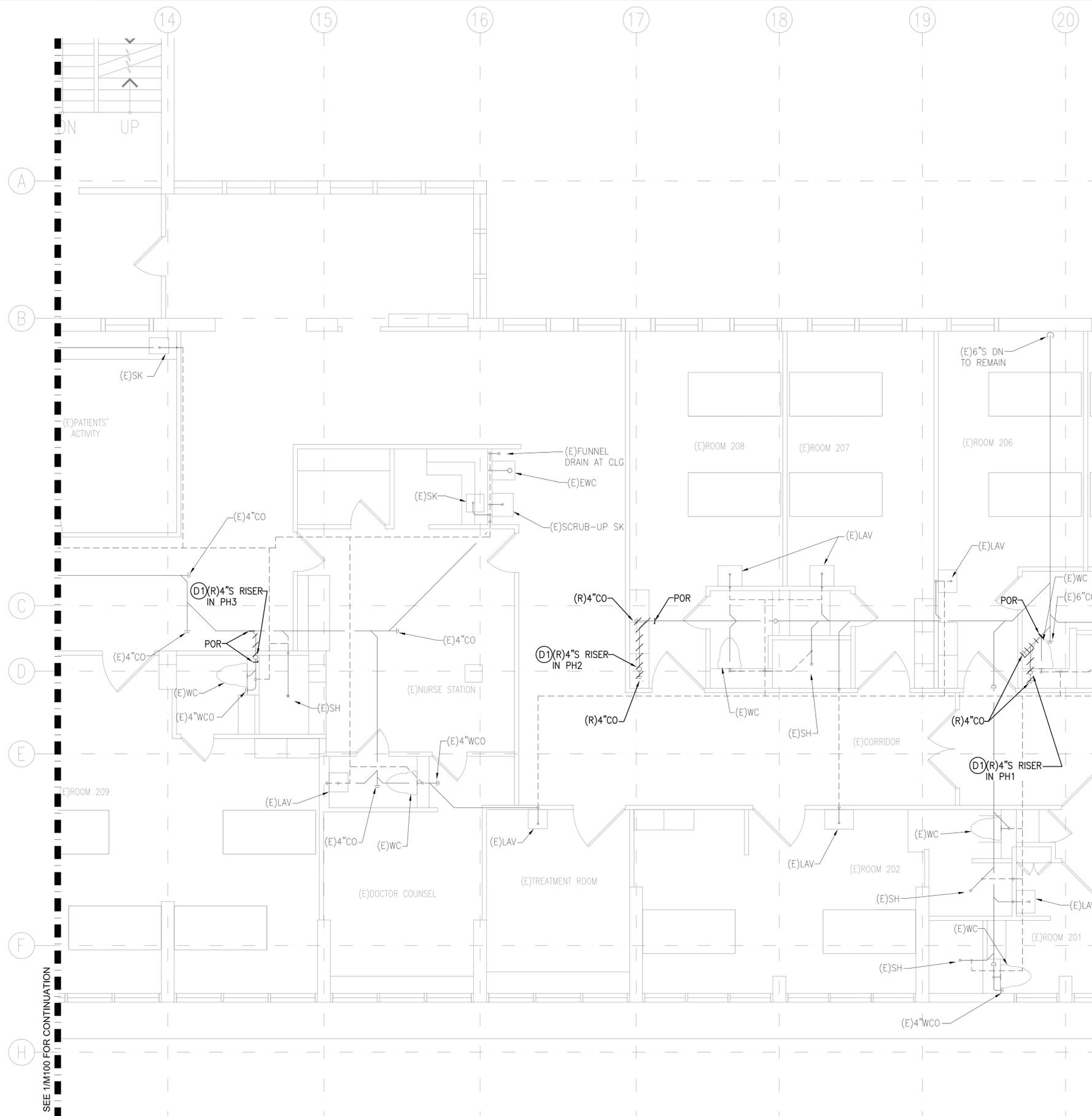
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LEAHI HOSPITAL YOUNG BUILDING SEWER LINE REPLACEMENT
3675 KILAUEA AVENUE, HONOLULU, HI 96816
TMK: 3-2-031001

PARTIAL PLUMBING DEMOLITION PLAN - SECOND FLOOR

Project Number 2025.035	Date 12/2025
Drawn MEI	Checked RRT
Designed MEI	

Drawing Number
M100



PLUMBING GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE WITH BUILDING MANAGER THAT ALL EXISTING SANITARY RISERS SERVING UPPER AND LOWER FLOOR DOES NOT INTERFERE HOSPITAL HOURS AND OPERATIONS. CONTRACTOR TO FIELD VERIFY.
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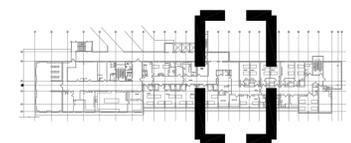
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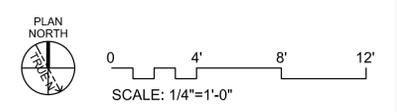
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		DESCRIPTION	

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PARTIAL PLUMBING DEMOLITION PLAN - SECOND FLOOR



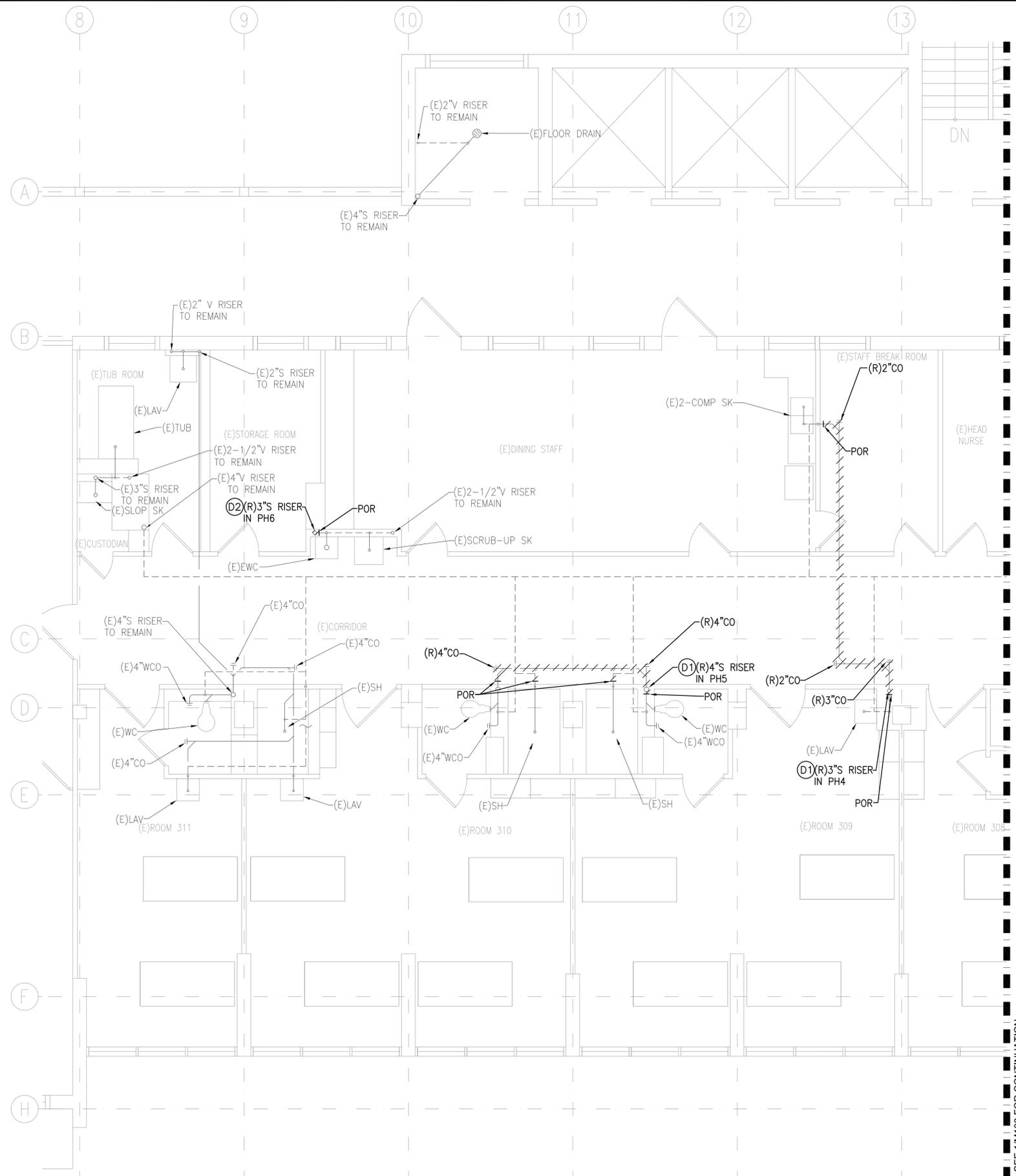
2 KEY PLAN
M101 SCALE: NTS



1 PARTIAL PLUMBING DEMOLITION PLAN - SECOND FLOOR
M101 SCALE: 1/4" = 1'-0"

Project Number 2025.035	Date 12/2025
Drawn MEI	Checked RRT
Designed MEI	Drawing Number M101

Sheet No 17 of 34



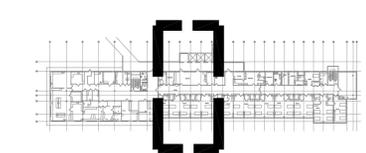
1 PARTIAL PLUMBING DEMOLITION PLAN - THIRD FLOOR
 M102 SCALE: 1/4" = 1'-0"

PLUMBING GENERAL NOTES:

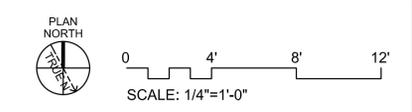
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2 KEY PLAN
 M102 SCALE: NTS



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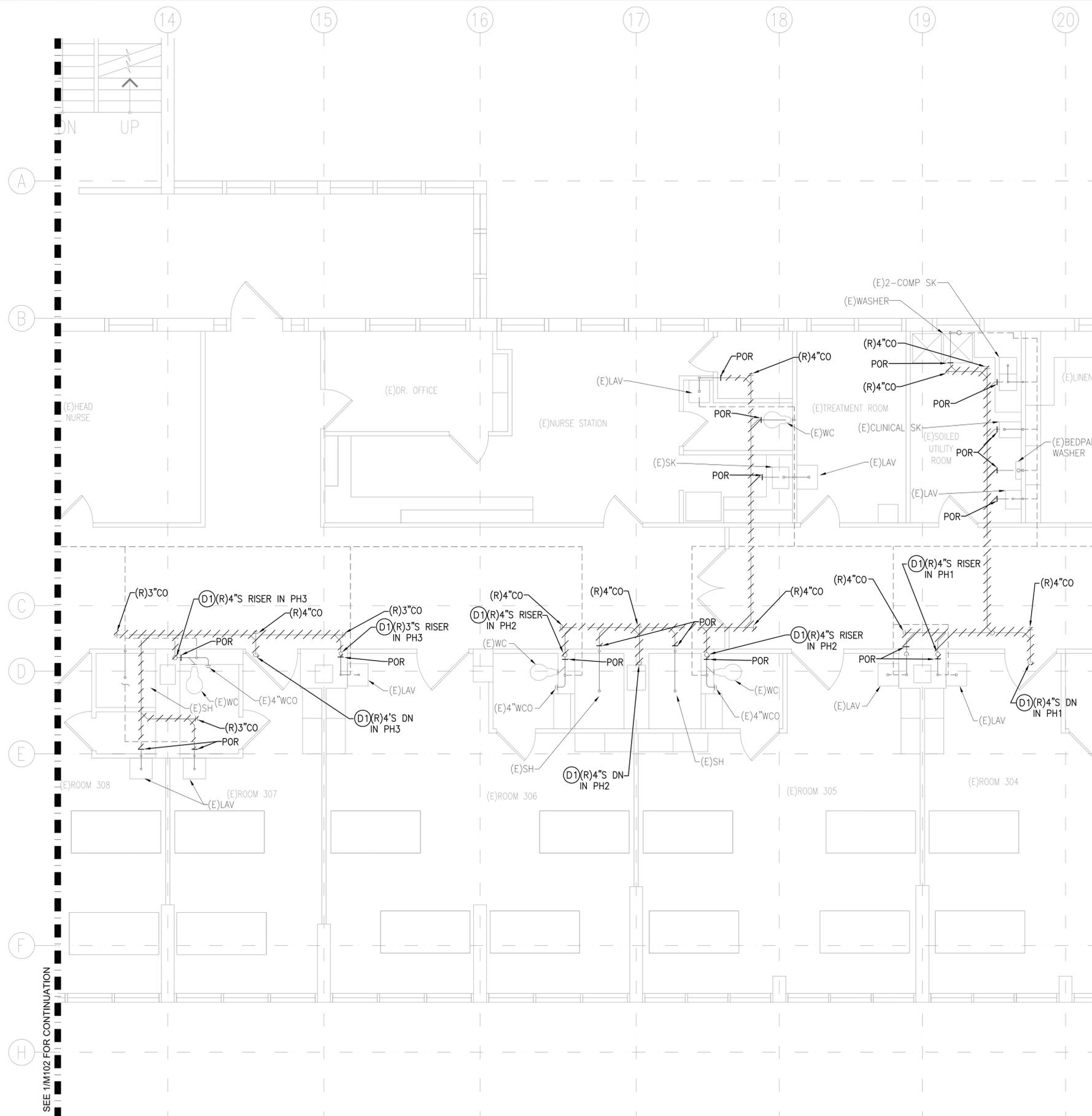
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NO	REVISIONS	
	DATE	DESCRIPTION

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PARTIAL PLUMBING DEMOLITION PLAN - THIRD FLOOR

Project Number 2025.035	Date 12/2025
Drawn MEI	Checked RRT
Designed MEI	
Drawing Number M102	
Sheet No. 18 of 34	



PLUMBING GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE WITH BUILDING MANAGER THAT ALL EXISTING SANITARY RISERS SERVING UPPER AND LOWER FLOOR DOES NOT INTERFERE HOSPITAL HOURS AND OPERATIONS. CONTRACTOR TO FIELD VERIFY.
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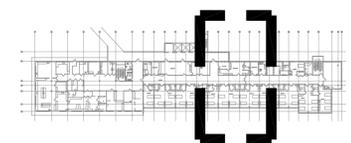
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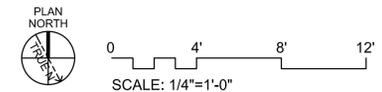
NO	DATE	REVISIONS	
		DESCRIPTION	

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PARTIAL PLUMBING DEMOLITION PLAN - THIRD FLOOR

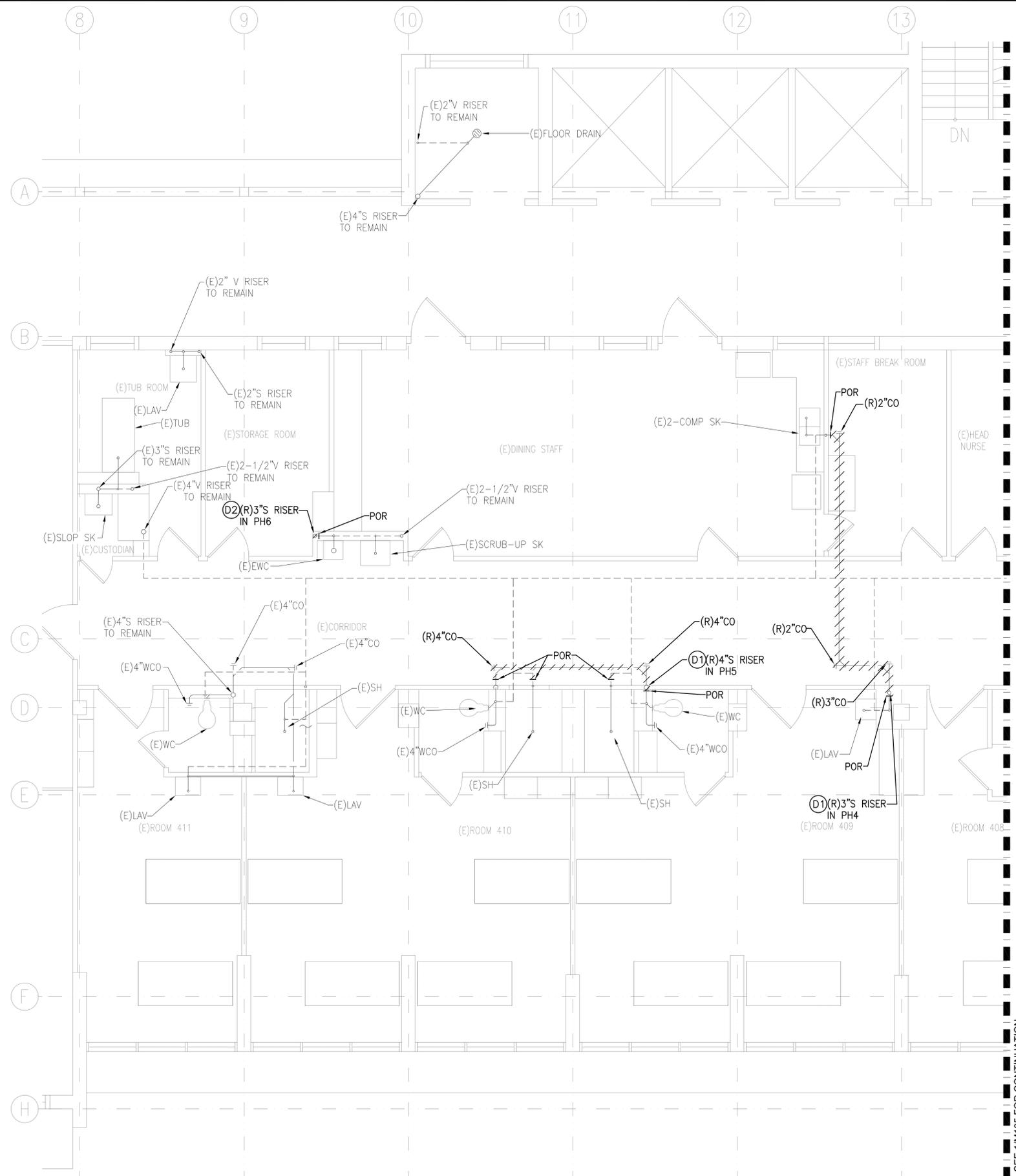


2
M103 KEY PLAN
SCALE: NTS



1
M103 PARTIAL PLUMBING DEMOLITION PLAN - THIRD FLOOR
SCALE: 1/4" = 1'-0"

Project Number 2025.035	Date 12/2025
Drawn MEI	Checked RRT
Designed MEI	
Drawing Number M103	
Sheet No. 19 of 34	



PLUMBING GENERAL NOTES:

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5. PLUMBING WORK ON ASSOCIATED SANITARY LATERAL WITH THE CORRESPONDING SANITARY RISER IS INCLUDED AS PART OF THAT RESPECTIVE PHASE AS SHOWN.

DEMOLITION PLUMBING WORK NOTES:

- (D1) REMOVE EXISTING SANITARY LINES FROM RISER/SANITARY MAIN TO POR AS REQUIRED. CUT/CAP EXISTING PLUMBING LINES AS REQUIRED. CONTRACTOR SHALL ACCESS SANITARY RISER ON THE CORRIDOR SIDE TO REDUCE SANITARY RISER REPLACEMENT DOWN TIME AS REQUIRED. SEE NEW PLUMBING WORK NOTES. CONTRACTOR TO FIELD VERIFY. PATCH/REPAIR TO MATCH EXISTING.
- (D2) REMOVE EXISTING SANITARY LINES FROM RISER TO POR AS REQUIRED. CUT/CAP EXISTING PLUMBING LINES AS REQUIRED. CONTRACTOR SHALL ACCESS SANITARY RISER ON THE CORRIDOR SIDE OR THE STORAGE ROOM SIDE TO REDUCE SANITARY RISER REPLACEMENT DOWN TIME AS REQUIRED. EXISTING EWC SHALL REMAIN AS REQUIRED. SEE NEW PLUMBING WORK NOTES. CONTRACTOR TO FIELD VERIFY. PATCH/REPAIR TO MATCH EXISTING.

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Fax: (808) 596-7356

ROSS R. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 9301-M
HAWAII, U.S.A.

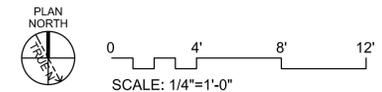
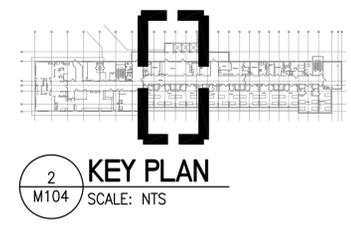
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Expiration Date: 4-30-26

NO	DATE	REVISIONS	
		DESCRIPTION	

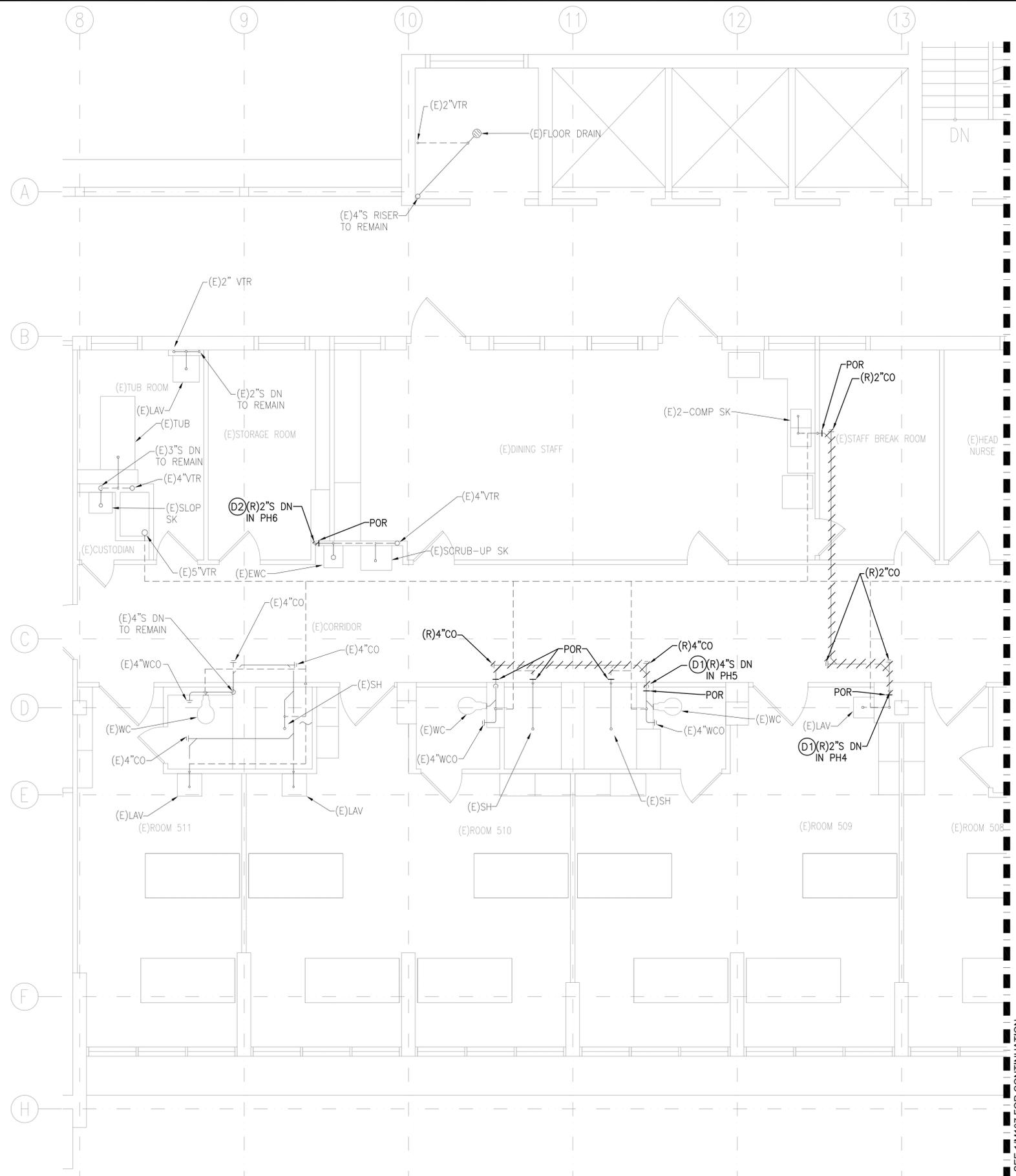
LEAHI HOSPITAL YOUNG BUILDING SEWER LINE REPLACEMENT
3675 KILAUEA AVENUE, HONOLULU, HI 96816
TMK: 3-2-031001

PARTIAL PLUMBING DEMOLITION PLAN - FOURTH FLOOR



1 PARTIAL PLUMBING DEMOLITION PLAN - FOURTH FLOOR
M104 SCALE: 1/4" = 1'-0"

Project Number 2025.035	Date 12/2025
Drawn MEI	Checked RRT
Designed MEI	
Drawing Number M104	
Sheet No <u>20</u> of <u>34</u>	



PLUMBING GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE WITH BUILDING MANAGER THAT ALL EXISTING SANITARY RISERS SERVING UPPER AND LOWER FLOOR DOES NOT INTERFERE HOSPITAL HOURS AND OPERATIONS. CONTRACTOR TO FIELD VERIFY.
2. CONTRACTOR SHALL ACCESS THE SANITARY LATERAL AND HORIZONTAL MAIN THROUGH THE EXISTING ACOUSTICAL CEILING TILE AT THE FLOOR BELOW.
3. CONTRACTOR SHALL NOT REMOVE OR INTERFERE WITH EXISTING PLUMBING FIXTURES WHEN REPLACING EXISTING SANITARY RISER AND LATERAL AS REQUIRED.
4. CONTRACTOR SHALL NOT PERFORM ANY WORK IN PATIENT BATHROOM WALL TO MINIMIZE THE HOSPITAL SANITARY SYSTEM DOWNTIME AS REQUIRED.
5. PLUMBING WORK ON ASSOCIATED SANITARY LATERAL WITH THE CORRESPONDING SANITARY RISER IS INCLUDED AS PART OF THAT RESPECTIVE PHASE AS SHOWN.

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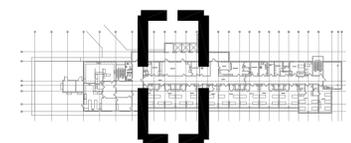
MEI
Mechanical Enterprises, Inc.
Mechanical & Fire Protection Engineers
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ROSS R. TANAKA
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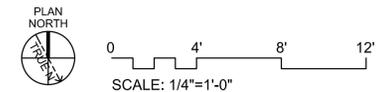
REVISIONS		DESCRIPTION
NO	DATE	

LEAHI HOSPITAL YOUNG BUILDING SEWER LINE REPLACEMENT
3675 KILAUEA AVENUE, HONOLULU, HI 96816
TMK: 3-2-031001

PARTIAL PLUMBING DEMOLITION PLAN - FIFTH FLOOR

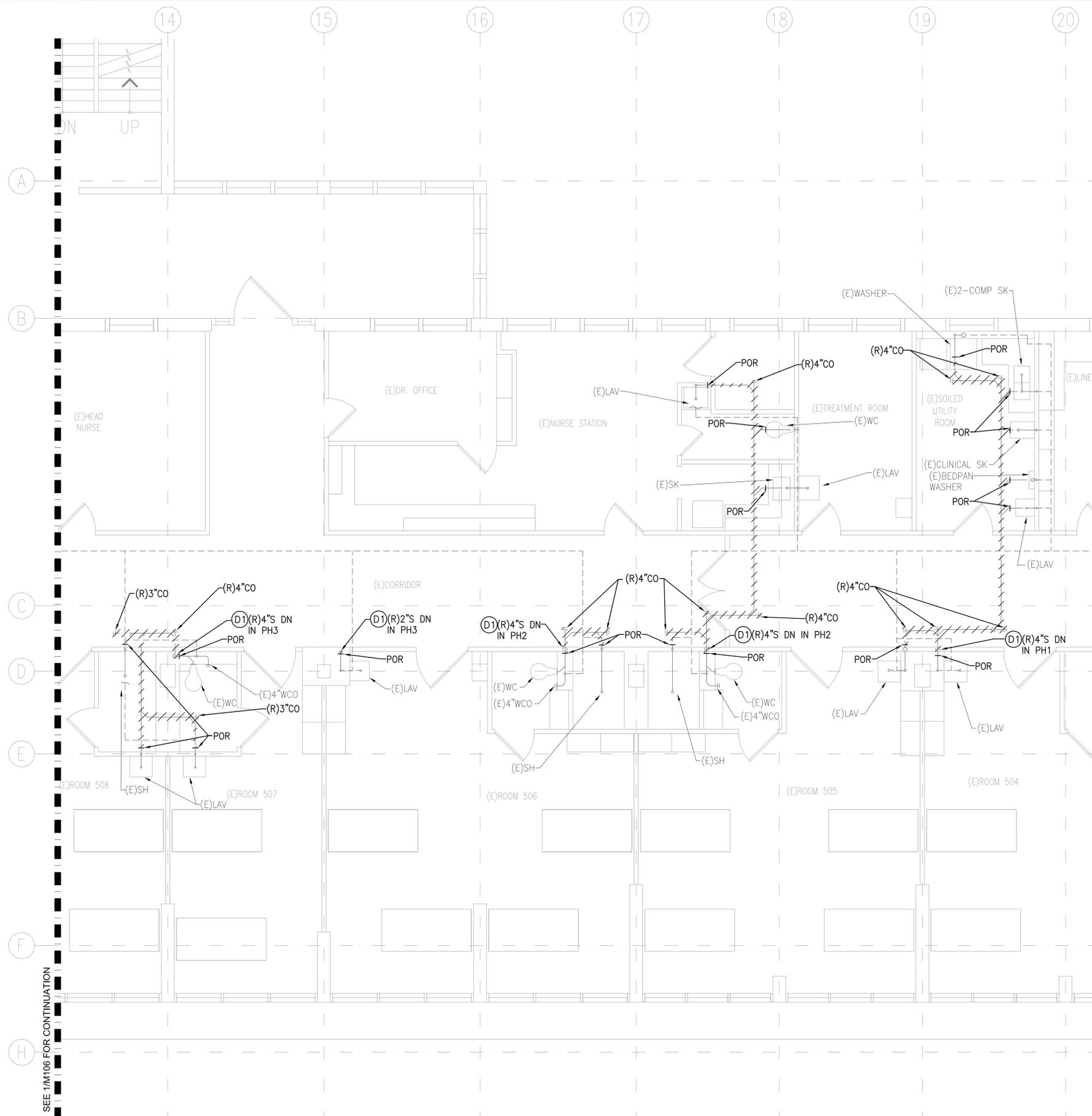


2 KEY PLAN
M106 SCALE: NTS



1 PARTIAL PLUMBING DEMOLITION PLAN - FIFTH FLOOR
M106 SCALE: 1/4" = 1'-0"

Project Number 2025.035	Date 12/2025
Drawn MEI	Checked RRT
Designed MEI	
Drawing Number M106	
Sheet No <u>22</u> of <u>34</u>	



PLUMBING GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE WITH BUILDING MANAGER THAT ALL EXISTING SANITARY RISERS SERVING UPPER AND LOWER FLOOR DOES NOT INTERFERE HOSPITAL HOURS AND OPERATIONS. CONTRACTOR TO FIELD VERIFY.
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DEMOLITION PLUMBING WORK NOTES:

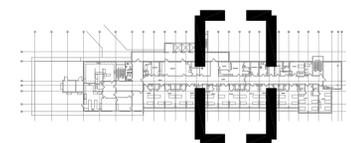
- (D1) REMOVE EXISTING SANITARY LINES FROM RISER/SANITARY MAIN TO POR AS REQUIRED. CUT/CAP EXISTING PLUMBING LINES AS REQUIRED. CONTRACTOR SHALL ACCESS SANITARY RISER ON THE CORRIDOR SIDE TO REDUCE SANITARY RISER REPLACEMENT DOWN TIME AS REQUIRED. SEE NEW PLUMBING WORK NOTES. CONTRACTOR TO FIELD VERIFY. PATCH/REPAIR TO MATCH EXISTING.

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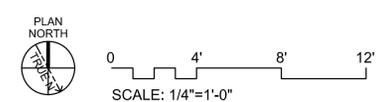
ROSS R. TANAKA
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NO	DATE	DESCRIPTION

LEAHI HOSPITAL YOUNG BUILDING SEWER LINE REPLACEMENT
3675 KILAUEA AVENUE, HONOLULU, HI 96816
TMK: 3-2-031001
PARTIAL PLUMBING DEMOLITION PLAN - FIFTH FLOOR

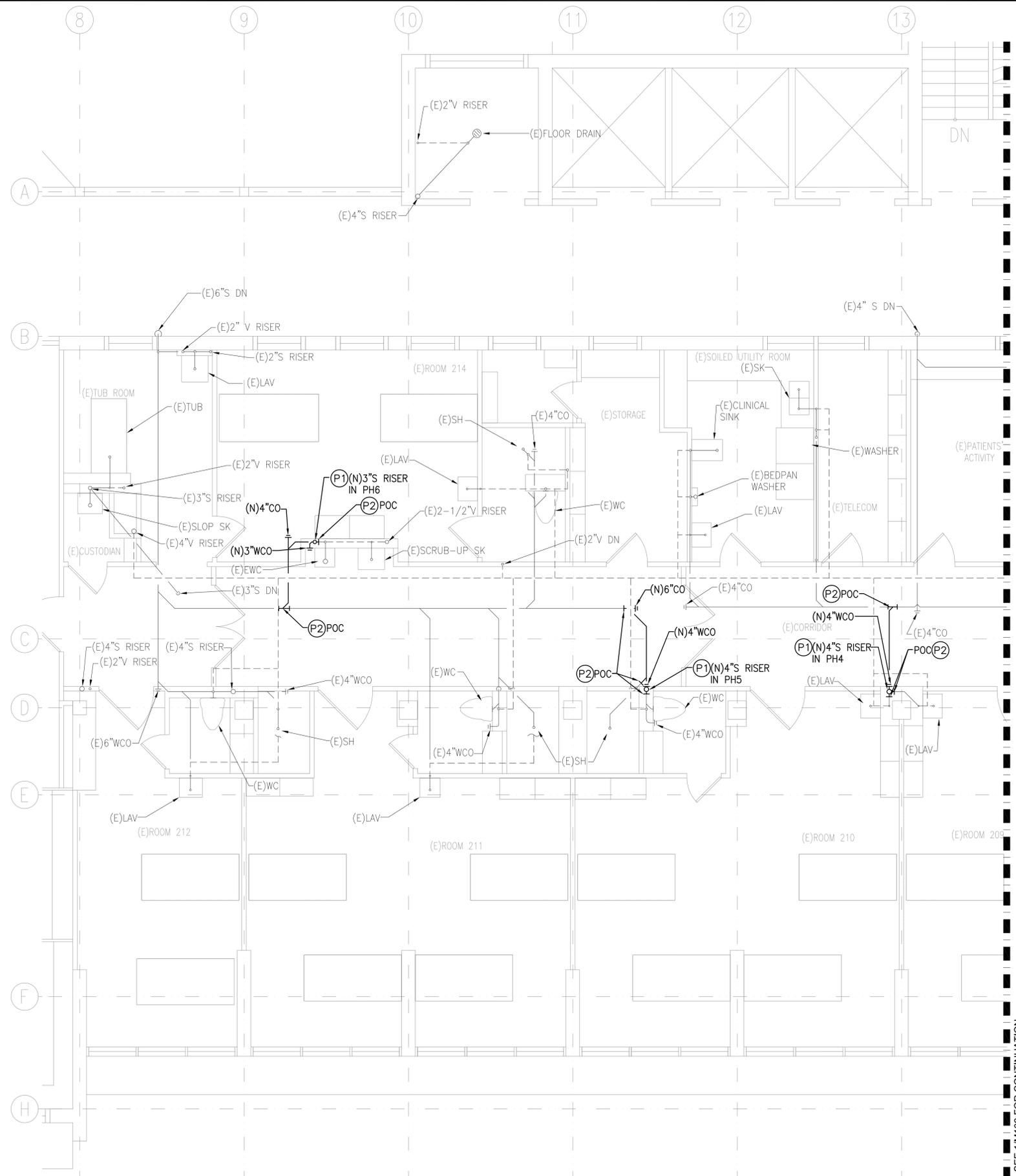


2
M107
KEY PLAN
SCALE: NTS



1
M107
PARTIAL PLUMBING DEMOLITION PLAN - FIFTH FLOOR
SCALE: 1/4" = 1'-0"

Project Number 2025.035	Date 12/2025	
Drawn MEI	Checked RRT	Designed MEI
Drawing Number M107		
Sheet No <u>23</u> of <u>34</u>		



PLUMBING GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE WITH BUILDING MANAGER THAT ALL EXISTING SANITARY RISERS SERVING UPPER AND LOWER FLOOR DOES NOT INTERFERE HOSPITAL HOURS AND OPERATIONS. CONTRACTOR TO FIELD VERIFY.
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5. PLUMBING WORK ON ASSOCIATED SANITARY LATERAL WITH THE CORRESPONDING SANITARY RISER IS INCLUDED AS PART OF THAT RESPECTIVE PHASE AS SHOWN.

PLUMBING NEW WORK NOTES:

- (P1) PROVIDE AND INSTALL NEW SANITARY RISER INCLUDING ASSOCIATED HANGERS, PIPING, AND ACCESSORIES AS REQUIRED. INSTALL SANITARY PIPING FROM RISER TO POC AS SHOWN. CONTRACTOR TO FIELD VERIFY. PATCH/REPAIR TO MATCH EXISTING.
- (P2) CUT/CONNECT NEW SANITARY PIPING TO EXISTING SANITARY PIPING AS INDICATED. MODIFIED EXISTING SANITARY PIPING AS REQUIRED. CONTRACTOR TO FIELD VERIFY. PATCH/REPAIR TO MATCH EXISTING.

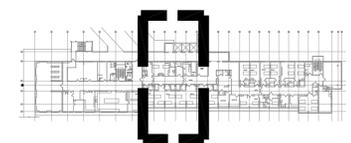
MEI
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ROSS R. TANAKA
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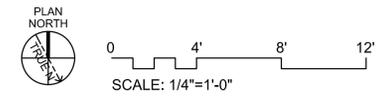
NO	REVISIONS	
	DATE	DESCRIPTION

LEAHI HOSPITAL YOUNG BUILDING SEWER LINE REPLACEMENT
3675 KILAUEA AVENUE, HONOLULU, HI 96816
TMK: 3-2-031001

PARTIAL NEW PLUMBING PLAN - SECOND FLOOR

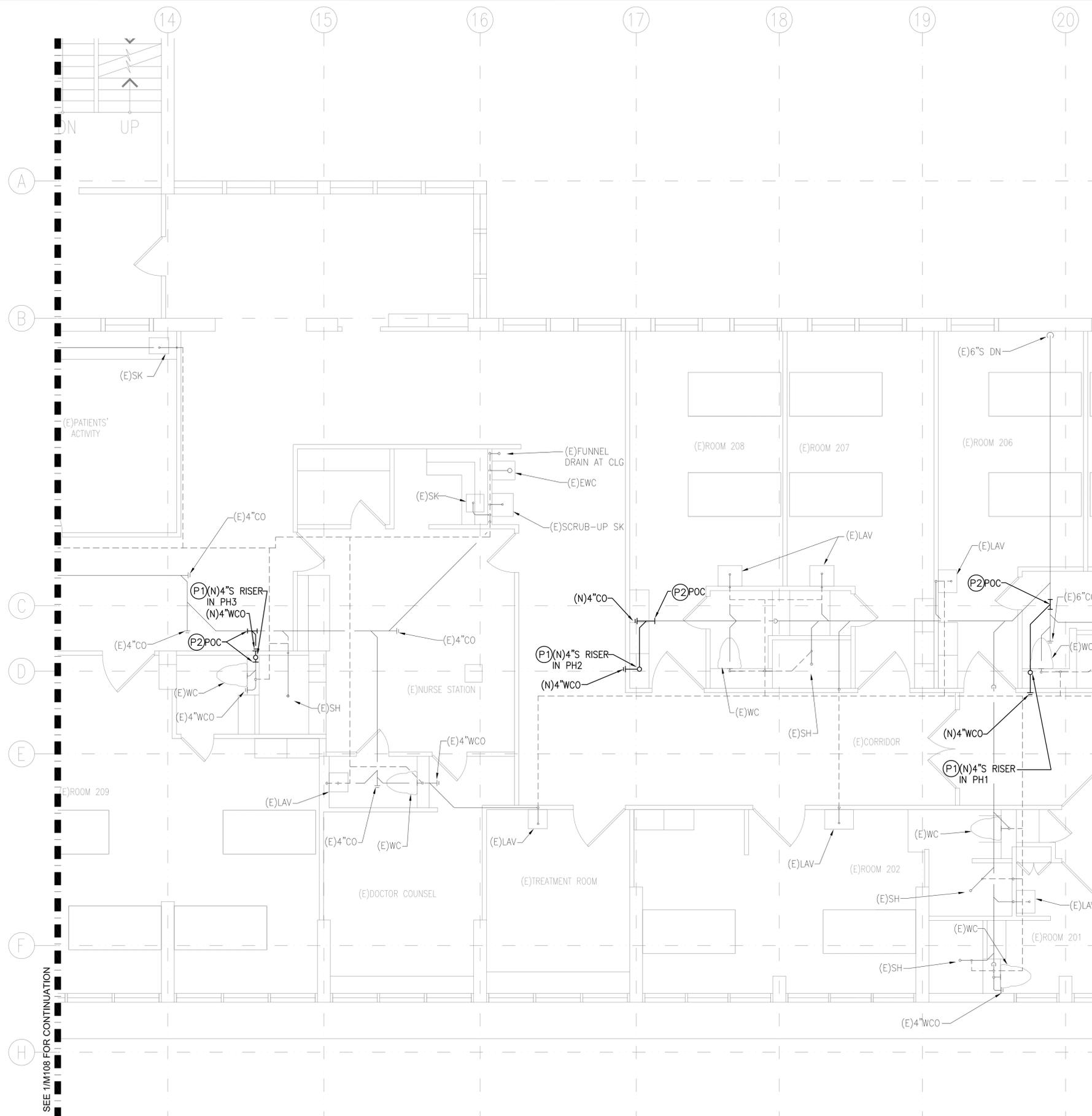


2
M108
KEY PLAN
SCALE: NTS



1
M108
PARTIAL NEW PLUMBING PLAN - SECOND FLOOR
SCALE: 1/4" = 1'-0"

Project Number 2025.035	Date 12/2025
Drawn MEI	Checked RRT
Designed MEI	
Drawing Number M108	
Sheet No 24 of 34	



PLUMBING GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE WITH BUILDING MANAGER THAT ALL EXISTING SANITARY RISERS SERVING UPPER AND LOWER FLOOR DOES NOT INTERFERE HOSPITAL HOURS AND OPERATIONS. CONTRACTOR TO FIELD VERIFY.
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5. PLUMBING WORK ON ASSOCIATED SANITARY LATERAL WITH THE CORRESPONDING SANITARY RISER IS INCLUDED AS PART OF THAT RESPECTIVE PHASE AS SHOWN.

PLUMBING NEW WORK NOTES:

- (P1) PROVIDE AND INSTALL NEW SANITARY RISER INCLUDING ASSOCIATED HANGERS, PIPING, AND ACCESSORIES AS REQUIRED. INSTALL SANITARY PIPING FROM RISER TO POC AS SHOWN. CONTRACTOR TO FIELD VERIFY. PATCH/REPAIR TO MATCH EXISTING.
- (P2) CUT/CONNECT NEW SANITARY PIPING TO EXISTING SANITARY PIPING AS INDICATED. MODIFIED EXISTING SANITARY PIPING AS REQUIRED. CONTRACTOR TO FIELD VERIFY. PATCH/REPAIR TO MATCH EXISTING.

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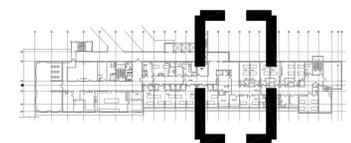
ROSS R. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 9301-M
HAWAII, U.S.A.

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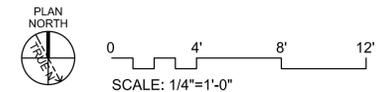
NO	DATE	DESCRIPTION

LEAHI HOSPITAL YOUNG BUILDING SEWER LINE REPLACEMENT
3675 KILAUEA AVENUE, HONOLULU, HI 96816
TMK: 3-2-031001

PARTIAL NEW PLUMBING PLAN - SECOND FLOOR

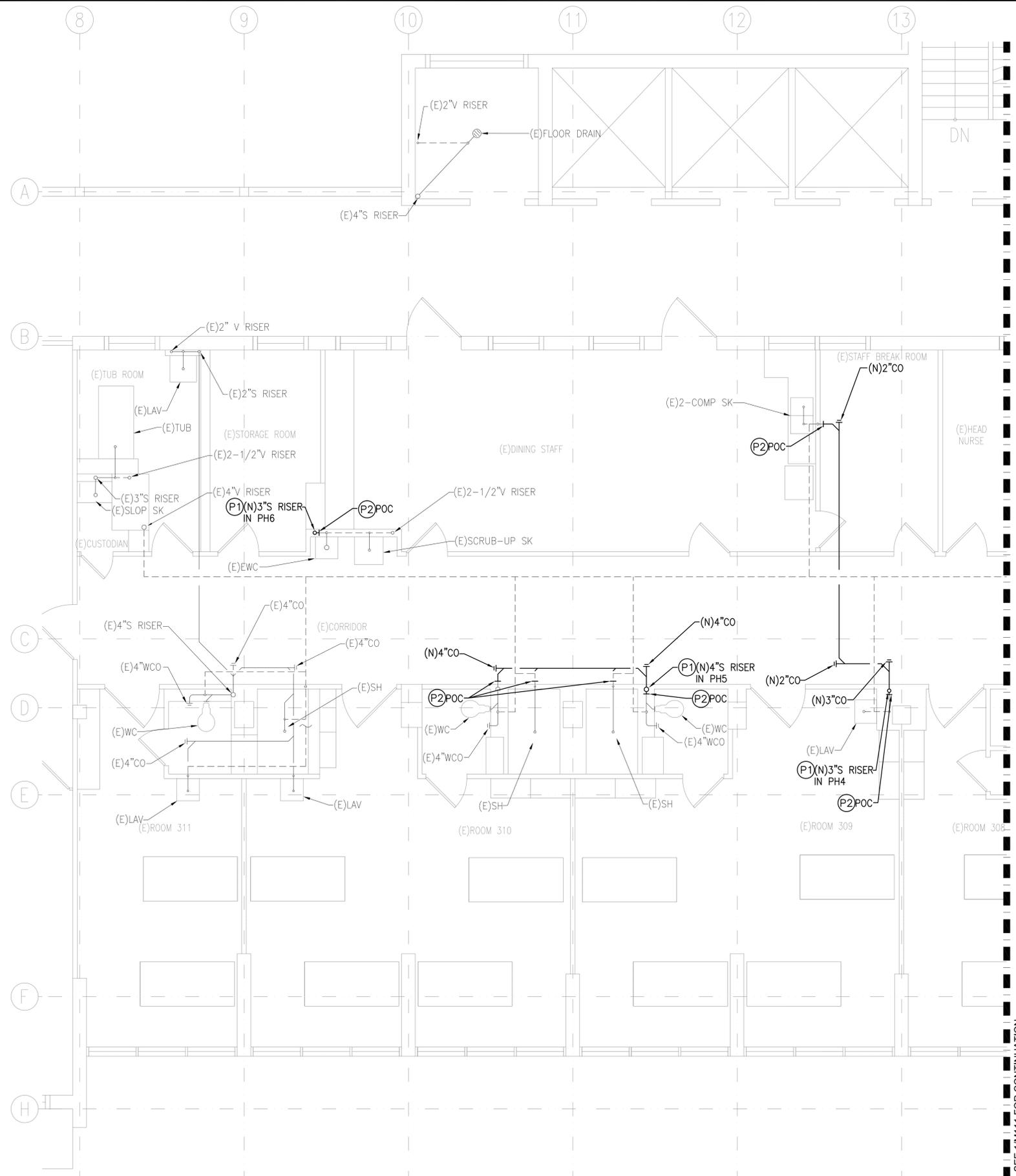


2 KEY PLAN
M109 SCALE: NTS



1 PARTIAL NEW PLUMBING PLAN - SECOND FLOOR
M109 SCALE: 1/4" = 1'-0"

Project Number 2025.035	Date 12/2025
Drawn MEI	Checked RRT
Designed MEI	
Drawing Number M109	
Sheet No <u>25</u> of <u>34</u>	



PLUMBING GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE WITH BUILDING MANAGER THAT ALL EXISTING SANITARY RISERS SERVING UPPER AND LOWER FLOOR DOES NOT INTERFERE HOSPITAL HOURS AND OPERATIONS. CONTRACTOR TO FIELD VERIFY.
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No. 9301-M
HAWAII, U.S.A.

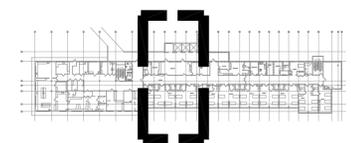
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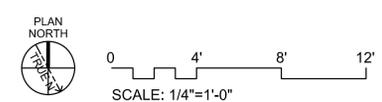
NO	DATE	REVISIONS	
		DESCRIPTION	

LEAHI HOSPITAL YOUNG BUILDING SEWER LINE REPLACEMENT
3675 KILAUEA AVENUE, HONOLULU, HI 96816
TMK: 3-2-031001

PARTIAL NEW PLUMBING PLAN - THIRD FLOOR

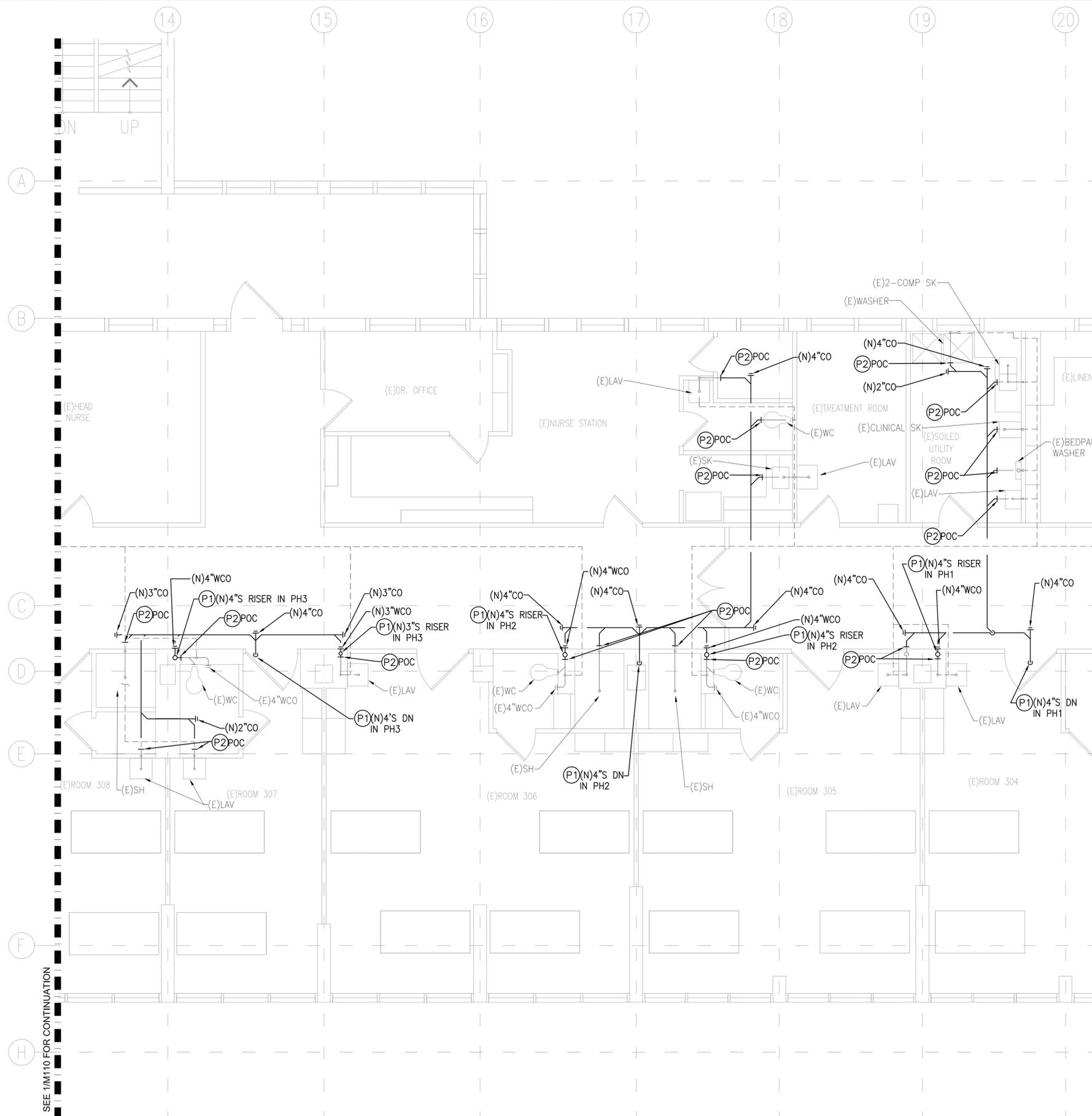


2
M110
KEY PLAN
SCALE: NTS



1
M110
PARTIAL NEW PLUMBING PLAN - THIRD FLOOR
SCALE: 1/4" = 1'-0"

Project Number 2025.035	Date 12/2025
Drawn MEI	Checked RRT
Designed MEI	
Drawing Number M110	
Sheet No. 26 of 34	



PLUMBING GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE WITH BUILDING MANAGER THAT ALL EXISTING SANITARY RISERS SERVING UPPER AND LOWER FLOOR DOES NOT INTERFERE HOSPITAL HOURS AND OPERATIONS. CONTRACTOR TO FIELD VERIFY.
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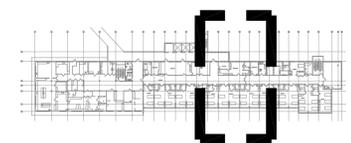
ROSS R. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 9301-M
HAWAII, U.S.A.

Expiration Date: 4-30-26

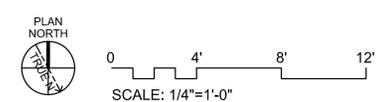
NO	REVISIONS	
	DATE	DESCRIPTION

LEAHI HOSPITAL YOUNG BUILDING SEWER LINE REPLACEMENT
3675 KILAUEA AVENUE, HONOLULU, HI 96816
TMK: 3-2-031001

PARTIAL NEW PLUMBING PLAN - THIRD FLOOR

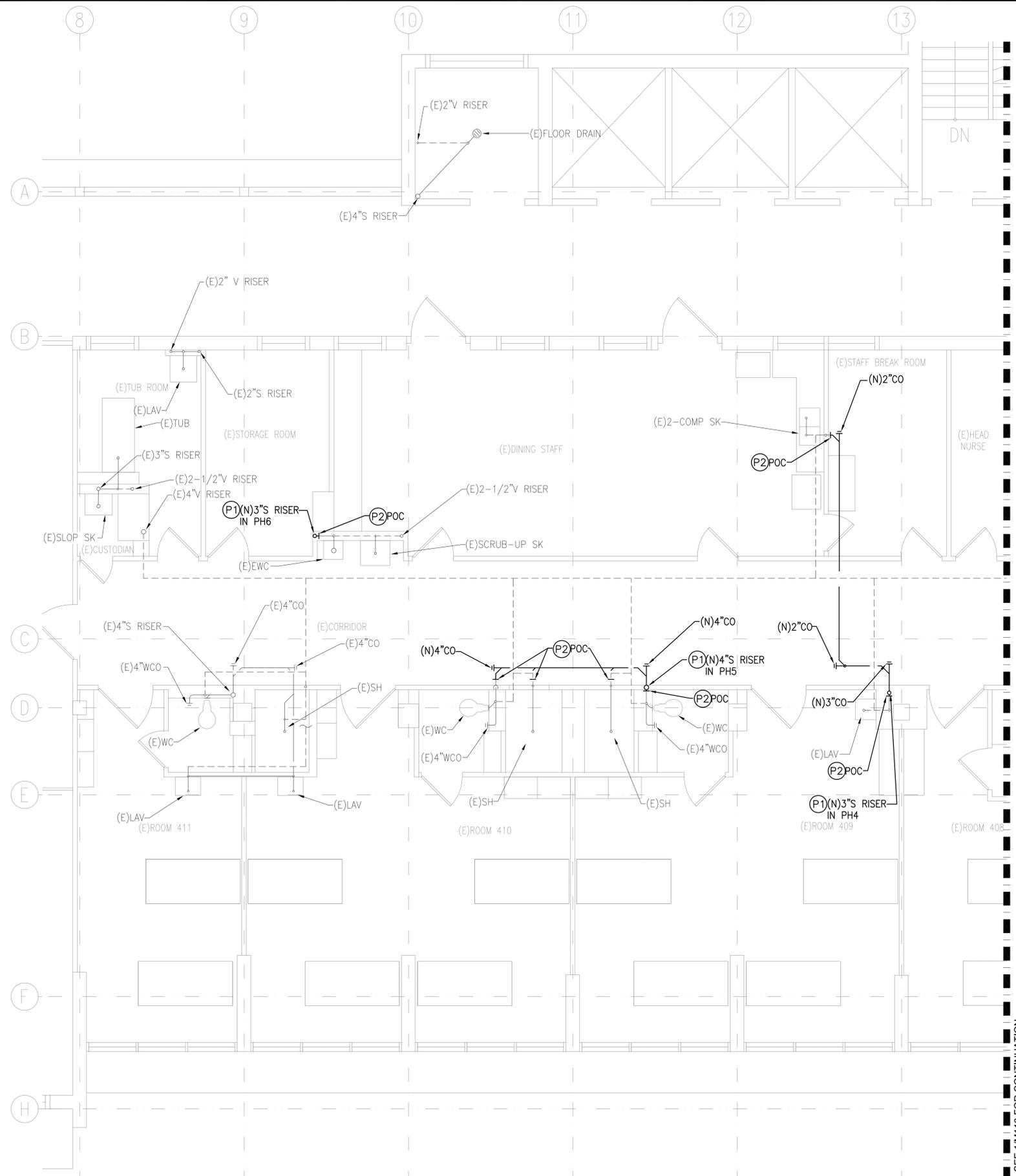


2 KEY PLAN
M111 SCALE: NTS



1 PARTIAL NEW PLUMBING PLAN - THIRD FLOOR
M111 SCALE: 1/4" = 1'-0"

Project Number 2025.035	Date 12/2025
Drawn MEI	Checked RRT
Designed MEI	
Drawing Number M111	
Sheet No <u>27</u> of <u>34</u>	



PLUMBING GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE WITH BUILDING MANAGER THAT ALL EXISTING SANITARY RISERS SERVING UPPER AND LOWER FLOOR DOES NOT INTERFERE HOSPITAL HOURS AND OPERATIONS. CONTRACTOR TO FIELD VERIFY.
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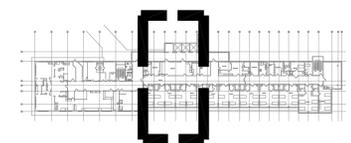
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HAWAII, U.S.A.

Expiration Date: 4-30-26

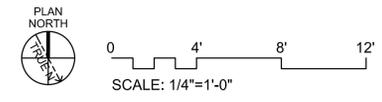
NO	DATE	DESCRIPTION

LEAHI HOSPITAL YOUNG BUILDING SEWER LINE REPLACEMENT
3675 KILAUEA AVENUE, HONOLULU, HI 96816
TMK: 3-2-031001

PARTIAL NEW PLUMBING PLAN - FOURTH FLOOR



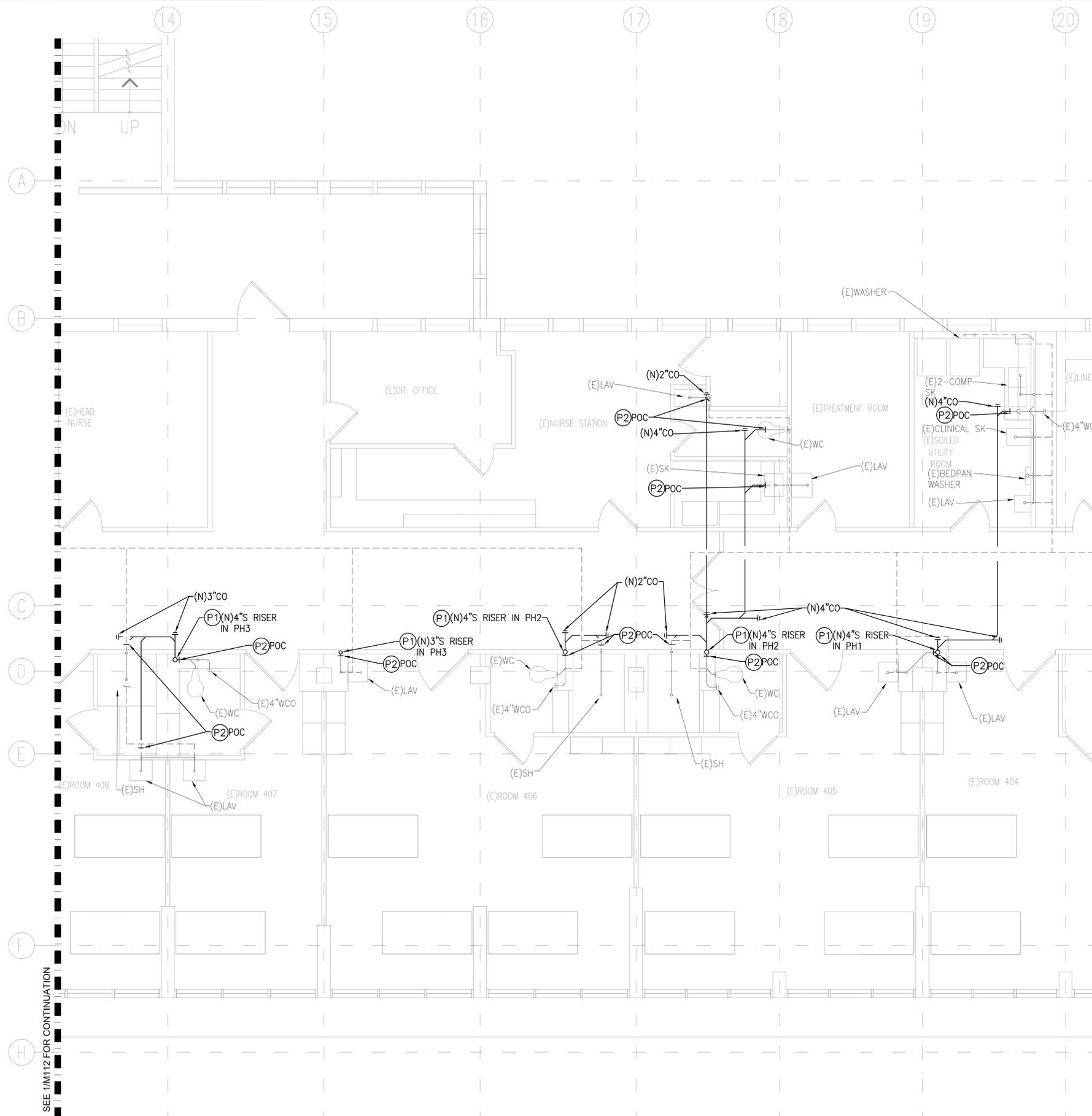
2 KEY PLAN
M112 SCALE: NTS



1 PARTIAL NEW PLUMBING PLAN - FOURTH FLOOR
M112 SCALE: 1/4" = 1'-0"

Project Number 2025.035	Date 12/2025
Drawn MEI	Checked RRT
Designed MEI	
Drawing Number M112	
Sheet No 28 of 34	

SEE 1/M113 FOR CONTINUATION



PLUMBING GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE WITH BUILDING MANAGER THAT ALL EXISTING SANITARY RISERS SERVING UPPER AND LOWER FLOOR DOES NOT INTERFERE HOSPITAL HOURS AND OPERATIONS. CONTRACTOR TO FIELD VERIFY.
2. CONTRACTOR SHALL ACCESS THE SANITARY LATERAL AND HORIZONTAL MAIN THROUGH THE EXISTING ACOUSTICAL CEILING TILE AT THE FLOOR BELOW.
3. CONTRACTOR SHALL NOT REMOVE OR INTERFERE WITH EXISTING PLUMBING FIXTURES WHEN REPLACING EXISTING SANITARY RISER AND LATERAL AS REQUIRED.
4. CONTRACTOR SHALL NOT PERFORM ANY WORK IN PATIENT BATHROOM WALL TO MINIMIZE THE HOSPITAL SANITARY SYSTEM DOWNTIME AS REQUIRED.
5. PLUMBING WORK ON ASSOCIATED SANITARY LATERAL WITH THE CORRESPONDING SANITARY RISER IS INCLUDED AS PART OF THAT RESPECTIVE PHASE AS SHOWN.

PLUMBING NEW WORK NOTES:

- (P1) PROVIDE AND INSTALL NEW SANITARY RISER INCLUDING ASSOCIATED HANGERS, PIPING, AND ACCESSORIES AS REQUIRED. INSTALL SANITARY PIPING FROM RISER TO POC AS SHOWN. CONTRACTOR TO FIELD VERIFY. PATCH/REPAIR TO MATCH EXISTING.
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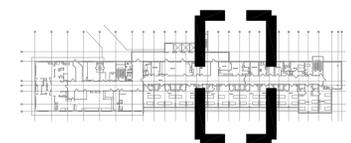
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ROSS R. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 9301-M
HAWAII, U.S.A.
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Expiration Date: 4-30-26

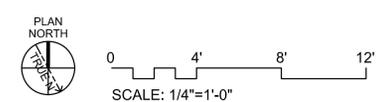
NO	REVISIONS	
	DATE	DESCRIPTION

LEAHI HOSPITAL YOUNG BUILDING SEWER LINE REPLACEMENT
3675 KILAUEA AVENUE, HONOLULU, HI 96816
TMK: 3-2-031001

PARTIAL NEW PLUMBING PLAN - FOURTH FLOOR

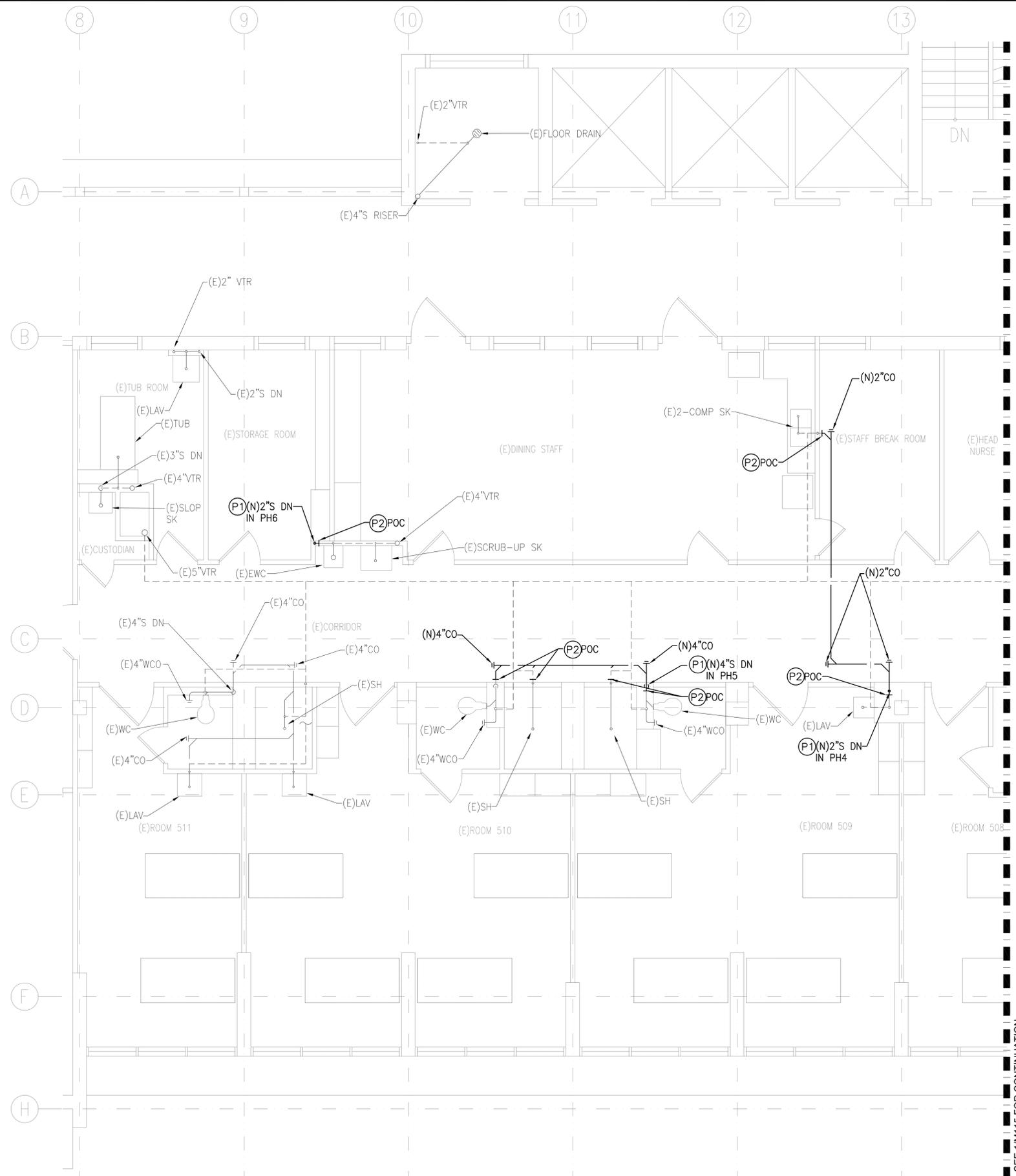


2
M113 KEY PLAN
SCALE: NTS



1
M113 PARTIAL NEW PLUMBING PLAN - FOURTH FLOOR
SCALE: 1/4" = 1'-0"

Project Number 2025.035	Date 12/2025
Drawn MEI	Checked RRT
Designed MEI	
Drawing Number M113	
Sheet No <u>29</u> of <u>34</u>	



PLUMBING GENERAL NOTES:

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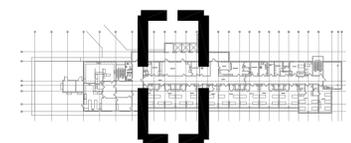
ROSS R. TANAKA
LICENSED PROFESSIONAL ENGINEER
No. 9301-M
HAWAII, U.S.A.

Expiration Date: 4-30-26

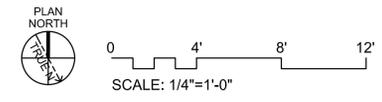
NO	REVISIONS	
	DATE	DESCRIPTION

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3675 KILAUEA AVENUE, HONOLULU, HI 96816
TMK: 3-2-031001

PARTIAL NEW PLUMBING PLAN - FIFTH FLOOR

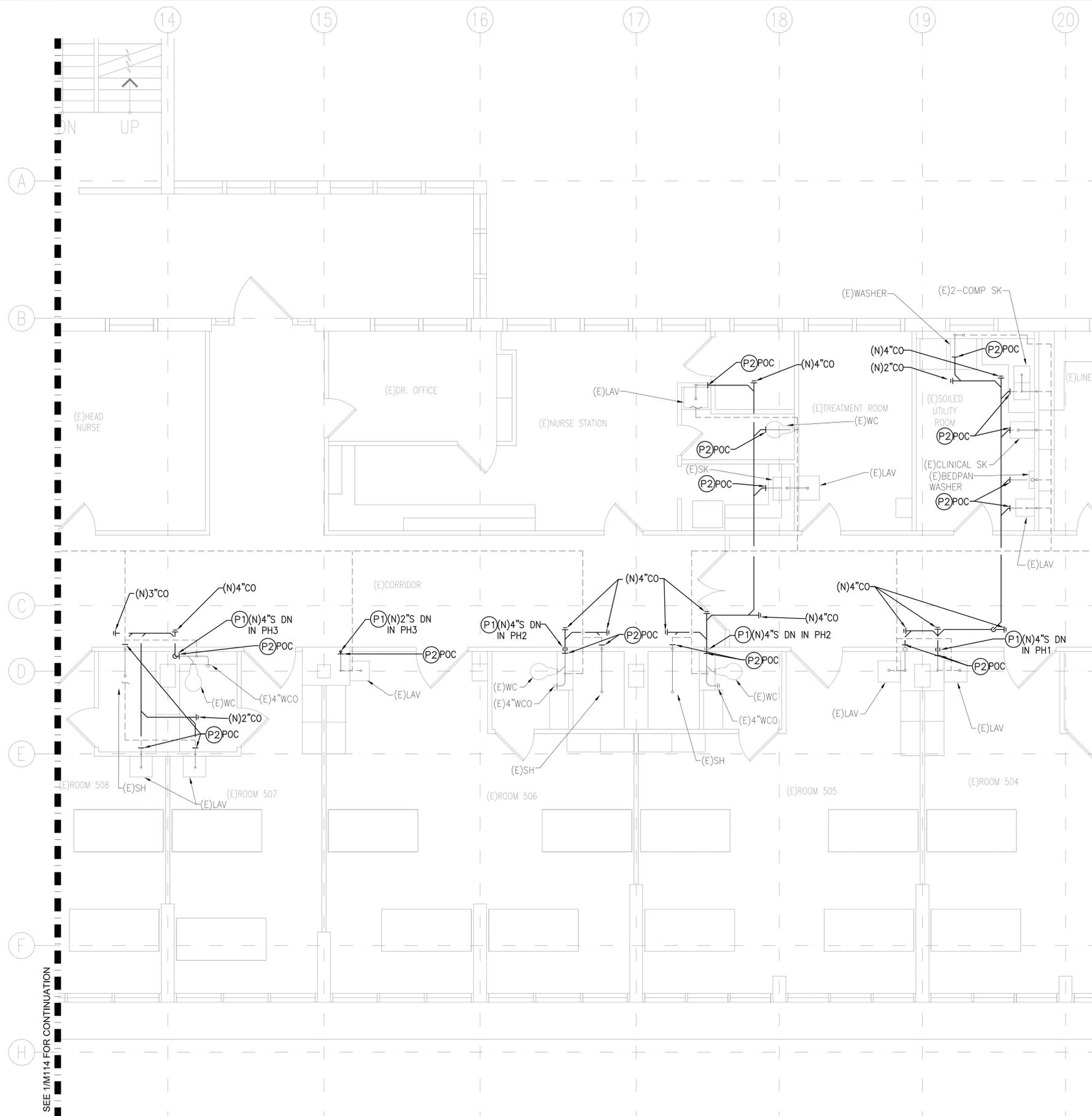


2 KEY PLAN
M114 SCALE: NTS



1 PARTIAL NEW PLUMBING PLAN - FIFTH FLOOR
M114 SCALE: 1/4" = 1'-0"

Project Number 2025.035	Date 12/2025
Drawn MEI	Checked RRT
Designed MEI	
Drawing Number M114	
Sheet No. 30 of 34	



PLUMBING GENERAL NOTES:

1. CONTRACTOR SHALL COORDINATE WITH BUILDING MANAGER THAT ALL EXISTING SANITARY RISERS SERVING UPPER AND LOWER FLOOR DOES NOT INTERFERE HOSPITAL HOURS AND OPERATIONS. CONTRACTOR TO FIELD VERIFY.
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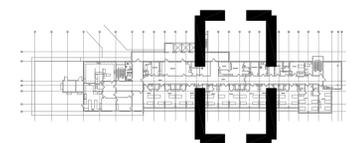
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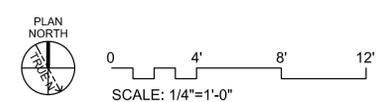
NO	DATE	REVISIONS	
		DESCRIPTION	

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TMK: 3-2-031001

PARTIAL NEW PLUMBING PLAN - FIFTH FLOOR

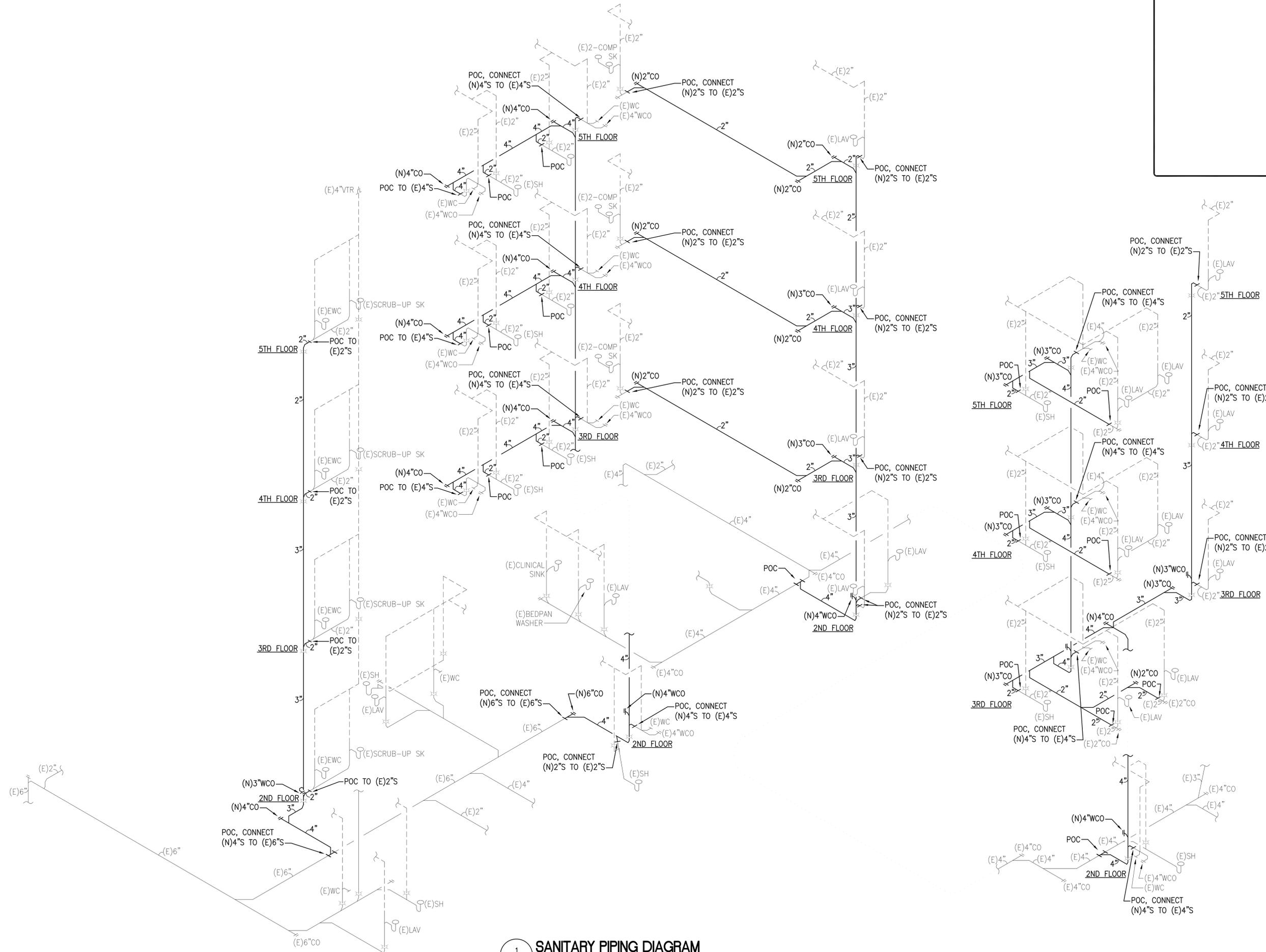


2 KEY PLAN
M115 SCALE: NTS



1 PARTIAL NEW PLUMBING PLAN - FIFTH FLOOR
M115 SCALE: 1/4" = 1'-0"

Project Number 2025.035	Date 12/2025
Drawn MEI	Checked RRT
Designed MEI	Drawing Number M115
Sheet No. 31 of 34	



1 SANITARY PIPING DIAGRAM
M116 SCALE: NOT TO SCALE

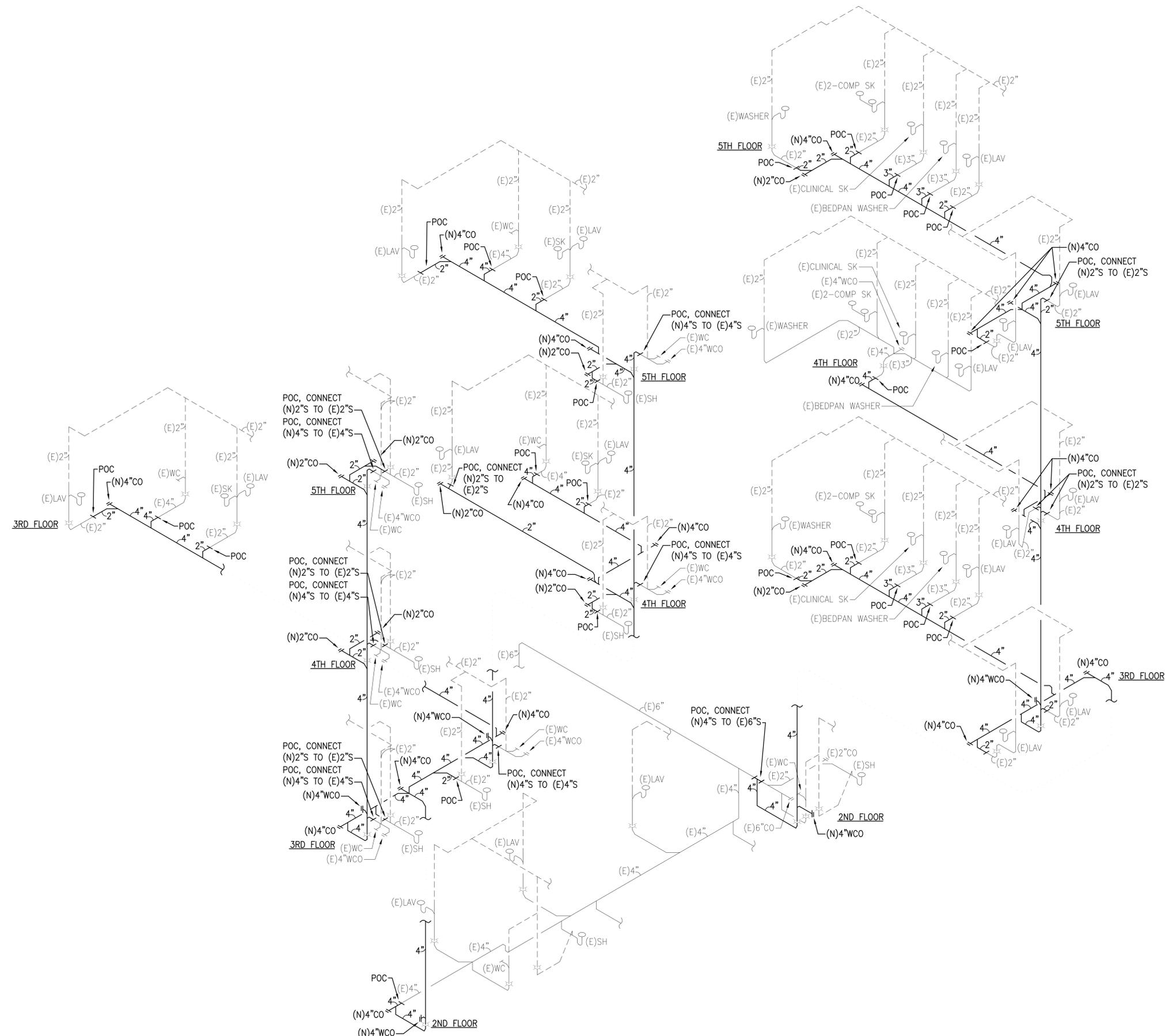
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3675 KILAUEA AVENUE, HONOLULU, HI 96816
TMK: 3-2-031001
SANITARY PIPING DIAGRAM

Project Number 2025.035	Date 12/2025
Drawn MEI	Checked RRT
Designed MEI	
Drawing Number M116	
Sheet No. 32 of 34	



2 SANITARY PIPING DIAGRAM
M117 SCALE: NOT TO SCALE

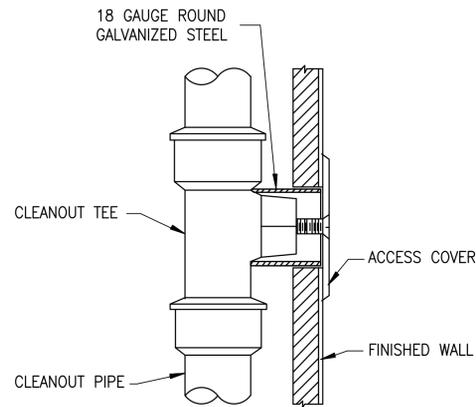
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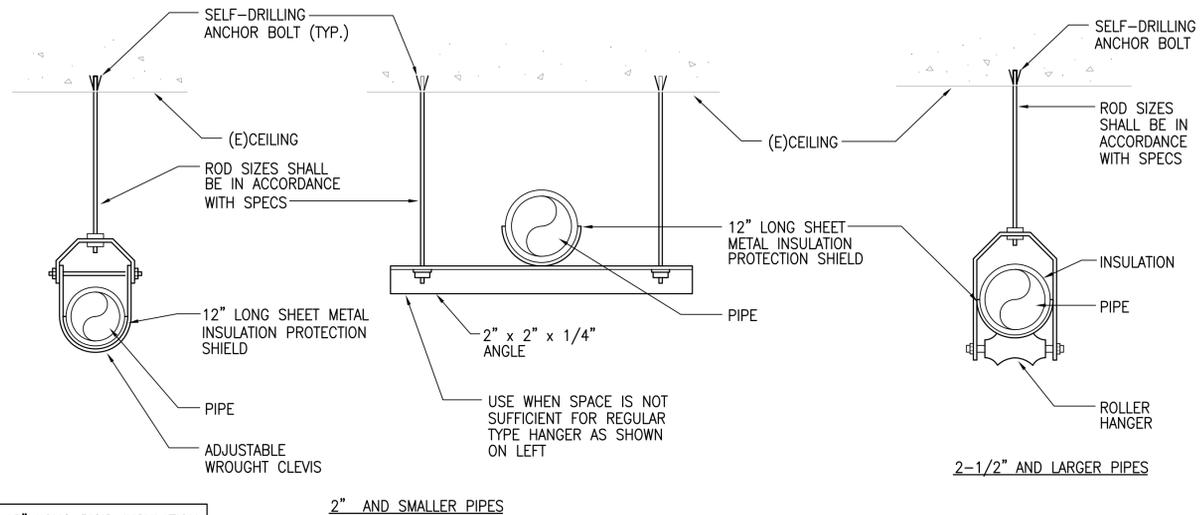
NO	DATE	REVISIONS	
		DESCRIPTION	

LEAHI HOSPITAL YOUNG BUILDING SEWER LINE REPLACEMENT
3675 KILAUEA AVENUE, HONOLULU, HI 96816
TMK: 3-2-031001
SANITARY PIPING DIAGRAM

Project Number 2025.035	Date 12/2025
Drawn MEI	Checked RRT
Designed MEI	
Drawing Number M117	
Sheet No. 33 of 34	



1 WALL CLEANOUT DETAIL
M118 SCALE: NOT TO SCALE

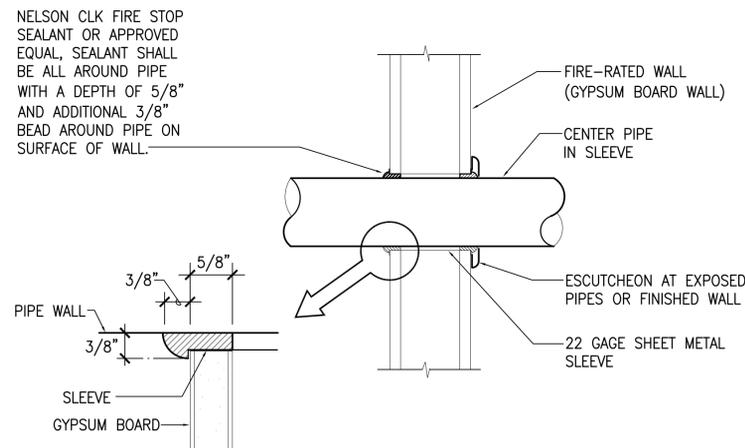


NOTE: 18" LONG RIGID INSULATION SHALL BE USED AT HANGERS

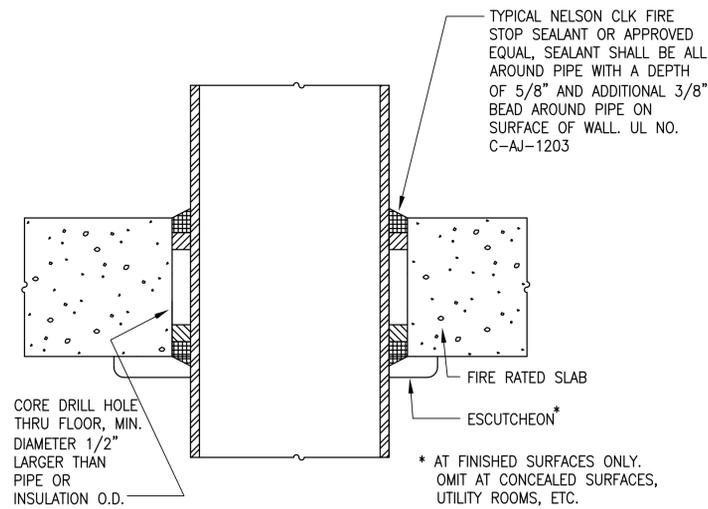
2" AND SMALLER PIPES

2-1/2" AND LARGER PIPES

2 PIPE HANGER DETAIL
M118 SCALE: NOT TO SCALE



3 PIPE THRU FIRE RATED WALL DETAIL
M118 SCALE: NOT TO SCALE



4 PIPE THRU FIRE RATED SLAB DETAIL
M118 SCALE: NOT TO SCALE

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DETAILED DRAWING

Project Number 2025.035	Date 12/2025
Drawn MEI	Checked RRT
Designed MEI	
Drawing Number M118	
Sheet No. 34 of 34	