

1 The Contractors Shall Be Responsible For Obtaining All Required Permits to the Portion Of Their work Prior To Construction.

2 The Contract Documents Consist Of Drawings Listed On Sheet A0 And The Project Manual.

3 The Contract Documents Are Instruments Of Service And Shall Remain The Property Of RM Sovich Architecture (The Architect) Whether The Project For Which They Are Prepared Is Executed Or Not. The Contract Documents Shall Not Be Used By Client/Owner Or Tenant For Other Projects Or Extensions To The Project Nor Are They To Be Modified In Any Manner Whosoever Except By Agreement In Writing With The Appropriate Compensation To The Architect.

4 The Work Will Conform With The Requirements Of All Agencies Having Jurisdiction.

5 "Owner" Means As Per Title Block Or Representative.

6 "Furnish" Means Supply Only. Installation Is Not Part Of This Contract.

7 "Provide" Means Furnish And Install, Complete And In Place.

8 "Similar" Means Comparable Characteristics For Conditions Noted. Contractor To Verify Dimensions.

9 "Typical" Means Identical For Conditions Noted.

10 Do Not Scale Drawings. Dimensions Govern. Verify Dimension With Field Conditions. If Discrepancies Are Discovered Between Field Conditions And Drawings Or Between Drawings, Contact The Architect For Resolution Before Proceeding.

11 Horizontal Dimensions Indicated Are To/From Finish Face Of Construction, Unless Otherwise Noted.

12 Vertical Dimensions Are From Top Of Floor Slab, Except Where Noted To Be From Above The Finish Of Floor (A.F.F.)

13 Dimensions Are Not Adjustable Without Approval Of The Architect Unless Noted (+/-).

14 All Work Shall Be Erected And Installed Plumb, Level Space And True, And In Proper Alignment.

15 Cut And Fit Components For Alterations Of Existing Work And Installation Of New Work. Patch Disturbed Areas To Match Adjacent Materials And Finishes.

16 Patch And Repair All Fireproofing Damaged Or Removed During Performance Of The Work.

17 Co-ordinate And Provide Blocking/Backing In Partitions Behind All Wall Mounted Millwork, Shelving, And Standards. All Concealed Wood To Be Fire Rated.

18 Contractor Shall Be Responsible To Coordinate And Incorporate Owner Furnished Items Including Recognition Of Lead Times And Proper Scheduling. Contractor Shall Provide Necessary Protection Of Owner Items. If Instructed To Do So Contractor Shall Coordinate Directly With The Owner Sub-Contractors.

19 Contractor Shall Be Responsible For Checking Contract Documents, Field Conditions And Dimensions For Accuracy And Confirming That Work Is Buildable As Shown Before Proceeding With Construction. Clarifications Regarding Any Conflicts Shall Be Approved Prior To Related Work Being Started. The Contractor Shall Notify The Owner In Writing Of Any Deficiencies In Base Building Work Prior To The Commencement Of This Work. Any Unreported Deficiencies Will Become The Responsibility Of The Contractor To Correct.

20 Contractor Shall Verify That No Conflicts Exist In Locations Of Any And All Mechanical, Telephone, Electrical, Plumbing And Sprinkler Equipment (To Include All Piping, Ductwork And Conduit) And That All Required Clearances For Installation And Maintenance Of The Above Equipment Are Provided. Elements To Be Exposed Or Concealed Shall Be Determined And Reviewed By The Architect Prior To Proceeding With Construction.

21 Contractor Is Responsible For And Shall Provide Protection For Any Existing Finishes Including Elevators, Lobbies And Corridors Of The Base Building. Any Repair To Existing Areas Are Not Part Of This Project Or Contract Unless Noted.

22 Mechanical, Electrical, Plumbing & Fire Protection Systems, Shop Drawings And Layouts Shall Be Submitted As Soon As Possible After Award Of Contract To Design Build Team Allowing 5 Working Days For Review. No Construction Shall Proceed Until Approval Of These Drawings Has Been Received By Contractor. Construction That Precedes Approval Of These Drawings Is Done So At The Risk Of The Contractor.

23 Contractor Shall Provide Manufacturer's Specifications Installation Instruction, Shop Drawings & Samples For Review And Approval Of All Materials And Methods To Be Used Prior To Ordering Or Proceeding With The Work.

24 Contractor Shall Follow Manufacturer's Recommended Specifications And Installation Procedures. If These Are Contrary To The Contract Documents, Contractor Shall Notify Design Build Team, In Writing Immediately To Resolve Discrepancies Prior To Proceeding.

25 Exercise Extreme Care And Precaution During Construction Of The Work To Minimize Disturbances To Adjacent Tenants And Their Occupants, Property, Public Thoroughfares, Etc. Contractor Shall Take Precautions And Be Responsible For The Safety Of All Building Occupants From Construction Procedures.

26 Within five days of the contract date the Contractor shall re-submit to Design/Build Team the negotiated and agreed-upon schedule with detailed activities and any Owner related items which may affect the schedule.

27 Abbreviations Used In Referring To Standards That Apply To The Work Include, But Are Not Necessarily Limited To The Following:

- A. American Society Of Testing Materials (ATM)
- B. American Institute Of Steel Construction (AISC)
- C. American Welding Society (AWS)
- D. American Concrete Institute (ACI)
- E. American National Standards Institute (ANSI)
- F. Architectural Aluminum Manufacturer's Association (AAAMA)
- G. Aluminum Association, Inc. (AA)
- H. Concrete Reinforcing Steel Institute (CRSI)
- I. National Association Of Architectural Metal Manufacturer's (NAAMM)
- J. National Fire Protection Association (NFPA)
- K. National Woodwork Manufacturer's Association (NWMA)
- L. Woodwork Institute Of America (WIA)
- M. Architectural Woodwork Institute (AWI)

28 NOT USED

29 The Finished Work Shall Be Firm Well Anchored, In True Alignment, Plumb, Level, With Smooth, Clean, Uniform Appearance Without Waves, Distortions, Holes, Marks, Cracks, Stains, Or Discoloration. Joints Shall Be Close Fitting, Neat And Well Scribed. The Finish Shall Not Present Hazardous, Unsafe Corners, All Work Shall Have The Provision For Expansion, Contraction, And Shrinkage As Necessary To Prevent Crack, Buckling And Warping Due To Temperature And Humidity Conditions.

30 Attachments, Connections, Or Fastenings Of Any Nature Are To Be Properly And Permanently Secured In Conformance With Standards Established By, But Not Limited To, Those Referenced In General Note 27. Contractor Is Responsible For Improving Them Accordingly. The Drawings Show Only Special Conditions To Assist The Contractor, They Do Not Illustrate Every Such Detail.

31 NOT USED

32 The Contractor Shall Co-ordinate Architectural And Structural Clearances For Accessibility Of Millwork, Equipment And Mechanical And Electrical Systems. No Allowance Of Any Kind Will Be Made For The Contractor's Negligence To Foresee Means Of Installing Equipment Into Position Inside Structures.

33 No Work Defective In Construction Or Quality Or Deficient In Any Requirements Of Drawings And/Or Specifications Will Be Acceptable In Consequence Of Owner's Or Architect's Failure To Discover Or To Point Out Defects Or Deficiencies During Construction. Defective Work Revealed Within Required Time Guarantees Shall Be Replaced By Work Conforming With Intent Of Contract. No Payment Whether Partial Or Final, Shall Be Construed As An Acceptance Of Defective Work Or Improper Materials.

34 Materials And Workmanship Specified By The Reference To Number Symbol, To Title Of A Specification Such As Commercial Standards, Federal Specification, Trade Association Standard, Or Other Similar Standard, Shall Comply With Requirements In Latest Edition Or Revision Thereof And With Any Amendment Or Supplement Thereto In Effect On Date Of Origin Of This Project's Contract Documents, Such Standard, Except As Modified Herein, Shall Have Full Force And Effects As Though Printed In Contract Documents.

35 Contractor Shall Waive "Common Practice" And Common Usage" As Construction Criteria Wherever Details And Contract Documents Of Governing Codes, Ordinances, Etc. Require Greater Quantity Or Better Quality Than Common Practice Or Common Usage Would Require.

36 Contractor Shall Order And Schedule Delivery Of Materials In Ample Time To Avoid Delays In Construction. If An Item Is Found To Be Unavailable, Contractor Shall Notify The Design Build Immediately To Allow The Architect A Reasonable Amount Of Time To Select A Suitable Substitute. Contractor To Notify With In Ten Business Days Of Contract Awarded.

37 If At Any Time Before Commencement Of Work, Or During Progress Thereof, Contractor's Methods, Equipment Or Appliances Are Inefficient Or Inappropriate For Securing Quality Of Work, Or Rate Of Progress Intended By Contract Documents, Owner Or Design Builder May Order Contractor To Improve Their Quality Or Increase Their Efficiency. This Will Not Relieve Contractor Of His Sureties From Their Obligations To Secure Quality Work And Rate Of Progress Specified In Contract.

38 With Reference To Ceilings, Contractor Shall Co-ordinate With All Trades Involved And Prepare Composite Shop Drawings To Insure Clearances For Fixtures, Ducts, Ceilings, Etc., Necessary To Maintain The Specified Finish Ceiling Height Above The Finish Floor As Noted On The Drawings. Clarify Conflicts With The Architect.

39 Design Builder, Acting As The Owner's Designated Agent For Designing This Project, Will Exercise Sole Authority For Determining Conformance Of Materials, Equipment And Systems With The Intent Of The Design. Review And Acceptance Of All Items Proposed By Contractor For Incorporation Into This Work Will Be Completed By The Design Builder. This Function Of The Design Builder Will Apply Both To Contract As Initially Signed, And To The Changes To Contract By Modification During Progress Of Work.

40 Reference To Makes, Brands, Models, Etc. Is To Establish Type And Quality Desired. Substitution Of Acceptable Equals Will Not Be Permitted Unless Specifically Noted. Substitutions Must Be Submitted To Owner And Architect For Approval.

41 With Regard To Core Drilled Slab Openings, Contractor Shall Submit A Drawing Showing The Location And Size Of All Openings To The Building Owner's Representative For Review By The Owner's Structural Engineer. The Following Procedure Shall Be Effected:

- A. Review core drilled locations with Structural Engineer prior to drilling.
- B. Not Used
- C. Openings Shall Not Be Permitted Either Horizontally Or Vertically Through Beams.
- D. Openings Shall Not Be Cored Until It Is Determined That The Reinforcing Or Tendons Will Not Be Damaged.
- E. Openings And/Or Damaged Areas Shall Then Be Patched With Non-shrink Grout. In Areas Subject To Moisture Such As Restrooms, Pantries, Janitor Closets, Garages, Etc. The Non Shrink Grout Shall Be Placed At The Lower Half Of The Opening And The Upper Half Of The Opening Then Filled Joint Sealer As Used In Base Building Construction. Be Coordinated With The Owner.

42 The Contractor Shall Take All Reasonable Control And Precaution To Eliminate Dust, Noise, Odor Nuisance And The Like To The Premises And The Occupants. In Addition, The Contractor Shall Establish Clean And Effective Means Of Trash And Waste Removal. A Plan For The Location Of Any Dumpsters, Trash Chutes, Material Lifts, Or Staging Areas (complete With Fencing Diagrams) Shall Be Submitted Prior To The Commencement Of Construction.

43 Sound Caulk All Acoustical Walls- Top And Bottom Joints With Approved Acoustical Caulking.

44 In The Event That Asbestos Or Other Environmental Hazard Is Found In Walls, Ceilings, Etc., Then Its Removal Or Encapsulation Shall Be Coordinated With The Owner.

45 Contractor Shall Coordinate Location And Priority Of Fire Extinguishers And Cabinets Indicated on drawings with Inspector prior to installation.

46 Contractor To Be Responsible For The Disposal Or Relocation Of The Existing Building And Maintenance Materials Located Within The Space.

47 Contractor To Ensure That All Gas Lines Are Turned Off Before Removing, Cutting Or Capping Existing Piping.

48 Contractor To Determine Adequacy Of The Existing Hvac Units. Upon Completion Of Construction, G.C. To Rebalance Entire Space If Applicable.

49 Contractor Shall Provide Maintenance Spec For All Finishes. In Addition, The Contractor Shall Provide O&M Manuals For All Mechanical, Electrical, Plumbing, Sprinkler, And Other Equipment.

50 Contractor Shall Provide A Minimum One Year Warranty On All Work. Contractor Shall Assisted The Owner In Enforcing All Warranties In Excess Of One Year

51 Contractor Shall Submit To Design Builder All Equipment Cut Sheets, Custom Millwork Shop Drawings, Design Build And Ordinances And Shall Receive Verification Of Inspection, Approval Drawings, And Hardware, Etc To Be Used On This Project For Approval.

52 If Applicable, Contractor To Ensure That Fire Suppression System Shall Comply With All Applicable Codes And Ordinances And Shall Receive Verification Of Inspection And Approval. In Addition, The Contractor Shall Ensure That The Fire Suppression System Will Remain Active And Code Compliant During The Construction Period.

53 Contractor Is Responsible For The Safety, Actions And Conduct Of His Employees And His Subcontractors' Employees While In The Project Area, Adjacent Areas And In The Building And Its Vicinity. The Design Builder Will Employ Or Subcontract A Safety Manager To Make Weekly Site Visits, And Hold Weekly Safety Meetings As Required By OSHA And MOSH.

54 Requests To Substitute Any Product, Technique, Or Material Shall Be Submitted In Writing To Design Builder For Approval. Samples, Product Information, And Drawings Shall Be Required Prior To Substitution Approval. Proposed Substitution Shall Be Of Equal Quality And Performance Specification To That Originally Specified.

55 All Workmanship, Material, And Equipment Shall Be Guaranteed For One Year From Date Of Owner Acceptance. Any Failure Or Deterioration Within This Period Shall Be Corrected By The Contractor At The Contractor's Expense.

56 The Contractor Shall Supply Attic Stock Of All Finish Materials Equal To 5% Of The Material Supplied "rounded Up" To The Nearest Whole Gallon, Bucket, Box, Or Other Typical Manufacturer's Container.

57 Any Discrepancies, Verifications Of Alterations To The Plan That The Contractor Become Aware Of Must Be Present, Tracked, And Approved Via The RFI Process.

Mechanical/Electrical/Telephone And Plumbing General Notes:

- 1 All Work To Be Completed By Licensed Electrician Or Plumber And Comply With All Electrical, Plumbing, And Fire Codes And Regulations.
- 2 All Electrical Outlets To Be Mounted Per Contract Document. Contractor Shall Submit To Architect Color Samples For Receptacles And Coverplates For Approval.
- 3 Outlets Above Millwork Backsplash Shall Be Installed Horizontally
- 4 All Devices, Switches, And Outlets Shall Be Level And Flush.
- 5 All Lower And Vents That Occurs On The Facade Of The Building Shall Be Aligned From Floor To Floor.

General Reflected Ceiling Notes:

- 1 It Is The Responsibility Of The Contractor To Review The General Notes.
- 2 All Rooms To Be Switched Individually. Install Light Switch At 3'-6" A.F.F. And Within 8" Of DOORFrame, Unless Otherwise Noted.
- 3 Switches Located In The Same Area To Be Ganged On Same Plate, If Applicable. Plates In Same Area To Be Adjacent To Each Other And Are To Align. Contractor Shall Submit Color Samples For Switch And Cover Plates, To Architect For Approval.

Millwork General Notes:

- 1 Contractor To Provide Grommets At Countertops, Coordinate With Telephone & Electrical And Owner. Exact Location And Color Shall Be Coordinated On Shop Drawings.
- 2 Contractor To Review Millwork Drawings And Assure That Outlets Clear Millwork.
- 3 Contractor To Submit Samples Of Millwork And Surface Material To Architect And Client For Approval.

4 Contractor Shall Install Fire Treated Blocking In New Partitions To Receive New Millwork To Ensure Sturdy Installation.

The following general notes shall be adhered to during construction:

- 1 Guards for stairs, landings, balconies, corridors, passageways, floor or roof openings, ramps, aisles, porches or mezzanines that are more than 30 inches above grade shall be provided with guardrails which are at least 42 inches high as per section 7-2.2.4.5.2, NFPA 101.
- 2 Guards for the landing higher than 30 inches above the floor shall conform to 42 inch minimum height so that a 4 inch diameter sphere cannot pass per section 7-2.2.4.5.2, NFPA 101.
- 3 Ramp(s) shall conform to the slope, integrity and handrail requirements of section 7-2.5, NFPA 101.
- 4 HVAC systems greater than 2000 CFM and 25,000 cubic feet in volume shall comply with the duct detector provisions of section 4-4 of NFPA 90A. Installing contractor shall provide all necessary equipment/materials necessary for final acceptance testing.
- 5 Every bathroom door lock shall be designed to permit opening of the locked door from the outside in an emergency. The opening device shall be readily accessible to the staff.
- 6 Minimum clear width of corridors and passageways shall be 72 inches.
- 7 Provide portable fire extinguishers as per NFPA 10.
- 8 Stairs shall conform to the requirements of section 7-2.2, NFPA 101 which include, but are not limited to the following:
 - A. Riser height - 7 inch maximum
 - B. Tread Depth - 11 inch minimum (clear of nosing)
 - C. Head Room - 6 feet 8 inch minimum.
 - D. Handrails - 34 inches to 38 inches above tread surface.
 - E. Width - 44 inches minimum.
 - F. Guardrails - 42 inches high.
- 9 Exit door locks, if provided, shall not require the use of a key, tool, special knowledge or effort for operation within a building, per section 7-2.1.5.2, NFPA 101.
- 10 A separate permit is required for any alterations to the sprinkler system. Four (4) sets of shop drawings of the proposed automatic sprinkler system or alterations shall be submitted to and approved by this office prior to installation per section 1-7.1, NFPA 72.
- 11 Provide OSHA And MOSH Compliant Cleated Floor Protection With Painted Edge For Any Floor Opening

General Notes to Contractor:

1. Correlation and Intent of the Contract Documents
1.2 The intent of the Contract Documents is to include all items necessary for the proper execution and completion of the Work by the Contractor. The Contract Documents are complementary, and what is required by one shall be as binding as if required by all; performance by the Contractor shall be required only to the extent consistent with the Contract Documents and reasonably inferable from them as being necessary to produce the indicated results.

GC is responsible to distribute and coordinate all drawings with the sub contractor. Deficiency of any kind shall be presented in writing before contract is signed.

1.2. Because the Contract Documents are complementary, the Contractor shall, before starting each portion of the Work, carefully study and compare the various Contract Documents relative to that portion of the Work, as well as the information furnished by the Owner, shall take field measurements of any existing conditions related to that portion of the Work, and shall observe any conditions at the site affecting it. These obligations are for the purpose of facilitating coordination and construction by the Contractor and are not for the purpose of discovering errors, omissions, or inconsistencies in the Contract Documents; however, the Contractor shall promptly report to the Architect any errors, inconsistencies or omissions discovered by or made known to the Contractor as a request for information in such form as the Architect may require. It is recognized that the Contractor's review is made in the Contractor's capacity as a contractor and not as a licensed design professional, unless otherwise specifically provided in the Contract Documents.

1.3 The Contractor is not required to ascertain that the Contract Documents are in accordance with applicable laws, statutes, ordinances, codes, rules and regulations, or lawful orders of public authorities, but the Contractor shall promptly report to the Architect any nonconformity discovered by or made known to the Contractor as a request for information in such form as the Architect may require.



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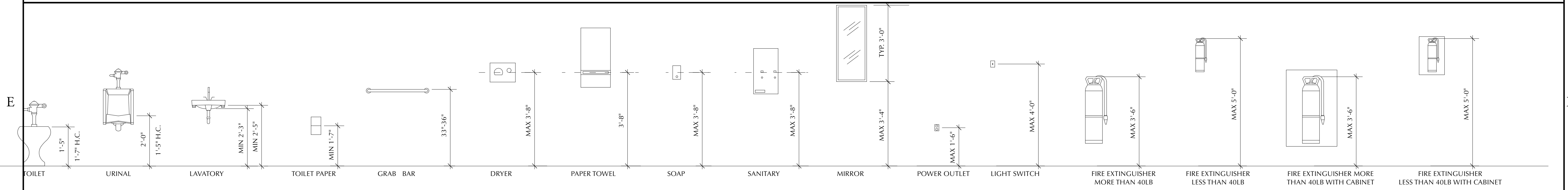
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GENERAL NOTES

PROJECT # 23010
 GENERAL NOTES



MOUNTING HEIGHTS OF FIXTURES
 SCALE: 1/2" = 1'-0"

NOTE:
 DO NOT SCALE DRAWINGS. CONTRACTORS SHALL VERIFY ALL DIMENSIONS BEFORE INSTALLATION.
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 CONTRACT SET 04/18/2024



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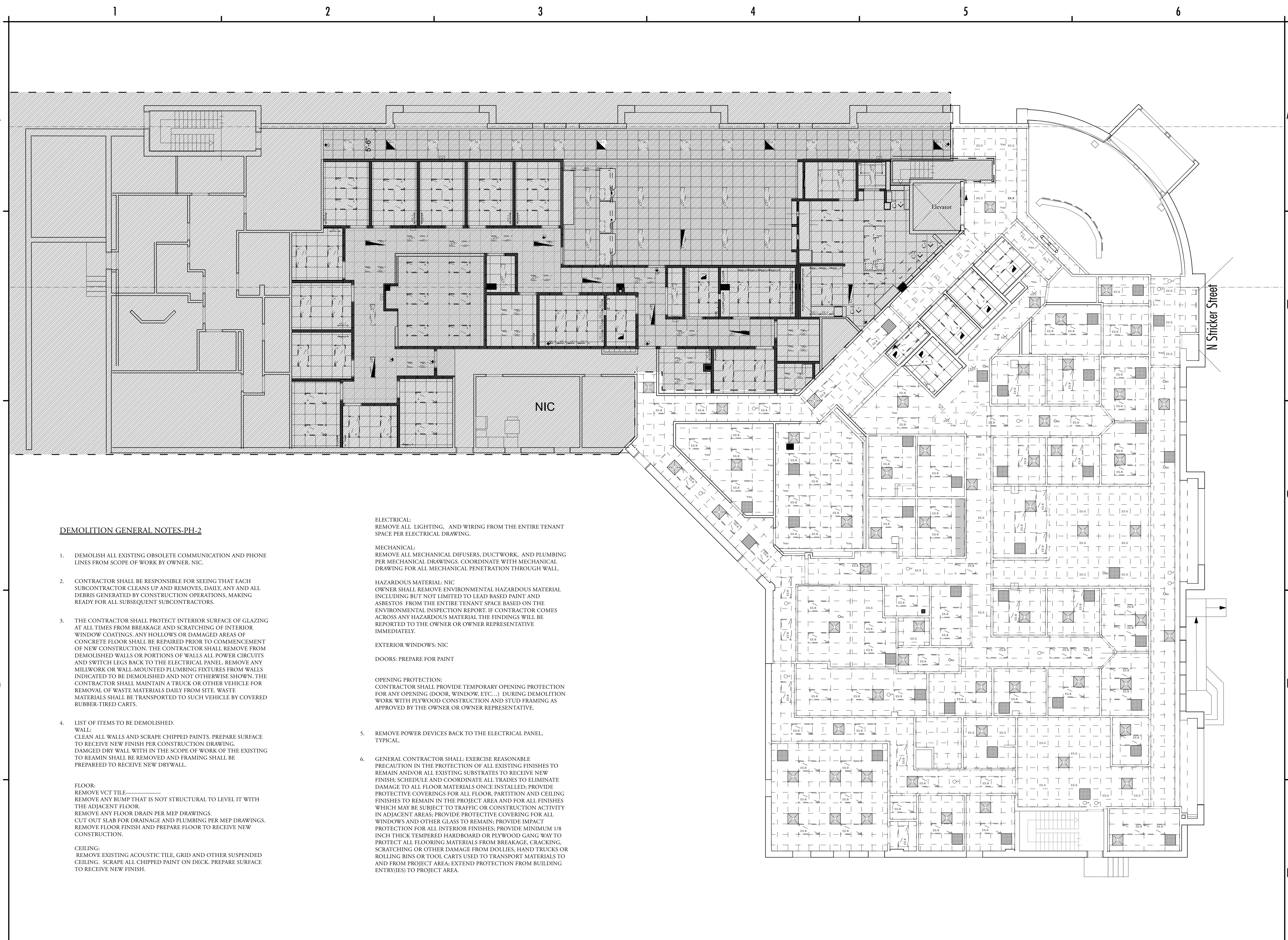
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CONTRACT SET 04/18/2024



DEMOLITION GENERAL NOTES-PH-2

- DEMOLISH ALL EXISTING OBSOLETE COMMUNICATION AND PHONE LINES FROM SCOPE OF WORK BY OWNER, NIC.
- CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT EACH SUBCONTRACTOR CLEANS UP AND REMOVES, DAILY, ANY AND ALL DEBRIS GENERATED BY CONSTRUCTION OPERATIONS, MAKING READY FOR ALL SUBSEQUENT SUBCONTRACTORS.
- THE CONTRACTOR SHALL PROTECT INTERIOR SURFACE OF GLAZING AT ALL TIMES FROM BREAKAGE AND SCRATCHING OF INTERIOR WINDOW COATINGS. ANY HOLLOW OR DAMAGED AREAS OF CONCRETE FLOOR SHALL BE REPAIRED PRIOR TO COMMENCEMENT OF NEW CONSTRUCTION. THE CONTRACTOR SHALL REMOVE FROM DEMOLISHED WALLS OR PORTIONS OF WALLS ALL POWER CIRCUITS AND SWITCH LEGS BACK TO THE ELECTRICAL PANEL. REMOVE ANY MILLWORK OR WALL-MOUNTED PLUMBING FIXTURES FROM WALLS INDICATED TO BE DEMOLISHED AND NOT OTHERWISE SHOWN. THE CONTRACTOR SHALL MAINTAIN A TRUCK OR OTHER VEHICLE FOR REMOVAL OF WASTE MATERIALS DAILY FROM SITE. WASTE MATERIALS SHALL BE TRANSPORTED TO SUCH VEHICLE BY COVERED RUBBER-TIRED CARTS.
- LIST OF ITEMS TO BE DEMOLISHED.
 WALL:
 CLEAN ALL WALLS AND SCRAPE CHIPPED PAINTS. PREPARE SURFACE TO RECEIVE NEW FINISH PER CONSTRUCTION DRAWING. DAMAGED DRY WALL WITH IN THE SCOPE OF WORK OF THE EXISTING TO REMAIN SHALL BE REMOVED AND FRAMING SHALL BE PREPARED TO RECEIVE NEW DRYWALL.

FLOOR:
 REMOVE VCT TILE
 REMOVE ANY BUMP THAT IS NOT STRUCTURAL TO LEVEL IT WITH THE ADJACENT FLOOR.
 REMOVE ANY FLOOR DRAIN PER MEP DRAWINGS.
 CUT OUT SLAB FOR DRAINAGE AND PLUMBING PER MEP DRAWINGS.
 REMOVE FLOOR FINISH AND PREPARE FLOOR TO RECEIVE NEW CONSTRUCTION.

CEILING:
 REMOVE EXISTING ACOUSTIC TILE, GRID AND OTHER SUSPENDED CEILING. SCRAPE ALL CHIPPED PAINT ON DECK. PREPARE SURFACE TO RECEIVE NEW FINISH.

ELECTRICAL:
 REMOVE ALL LIGHTING, AND WIRING FROM THE ENTIRE TENANT SPACE PER ELECTRICAL DRAWING.

MECHANICAL:
 REMOVE ALL MECHANICAL DIFUSERS, DUCTWORK, AND PLUMBING PER MECHANICAL DRAWINGS. COORDINATE WITH MECHANICAL DRAWING FOR ALL MECHANICAL PENETRATION THROUGH WALL.

HAZARDOUS MATERIAL: NIC
 OWNER SHALL REMOVE ENVIRONMENTAL HAZARDOUS MATERIAL INCLUDING BUT NOT LIMITED TO LEAD BASED PAINT AND ASBESTOS FROM THE ENTIRE TENANT SPACE BASED ON THE ENVIRONMENTAL INSPECTION REPORT. IF CONTRACTOR COMES ACROSS ANY HAZARDOUS MATERIAL THE FINDINGS WILL BE REPORTED TO THE OWNER OR OWNER REPRESENTATIVE IMMEDIATELY.

EXTERIOR WINDOWS: NIC

DOORS: PREPARE FOR PAINT

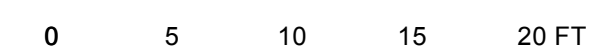
OPENING PROTECTION:
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5. REMOVE POWER DEVICES BACK TO THE ELECTRICAL PANEL, TYPICAL.

6. GENERAL CONTRACTOR SHALL: EXERCISE REASONABLE PRECAUTION IN THE PROTECTION OF ALL EXISTING FINISHES TO REMAIN AND/OR ALL EXISTING SUBSTRATES TO RECEIVE NEW FINISH. SCHEDULE AND COORDINATE ALL TRADES TO ELIMINATE DAMAGE TO ALL FLOOR MATERIALS ONCE INSTALLED; PROVIDE PROTECTIVE COVERINGS FOR ALL FLOOR, PARTITION AND CEILING FINISHES TO REMAIN IN THE PROJECT AREA AND FOR ALL FINISHES WHICH MAY BE SUBJECT TO TRAFFIC OR CONSTRUCTION ACTIVITY IN ADJACENT AREAS; PROVIDE PROTECTIVE COVERING FOR ALL WINDOWS AND OTHER GLASS TO REMAIN; PROVIDE IMPACT PROTECTION FOR ALL INTERIOR FINISHES; PROVIDE MINIMUM 1/8 INCH THICK TEMPERED HARDBOARD OR PLYWOOD GANG WAY TO PROTECT ALL FLOORING MATERIALS FROM BREAKAGE, CRACKING, SCRATCHING OR OTHER DAMAGE FROM DOLLIES, HAND TRUCKS OR ROLLING BINS OR TOOL CARTS USED TO TRANSPORT MATERIALS TO AND FROM PROJECT AREA; EXTEND PROTECTION FROM BUILDING ENTRY(IES) TO PROJECT AREA.

1ST FLOOR REFLECTED CEILING DEMO PLAN

Scale: 1/8" = 1'-0"





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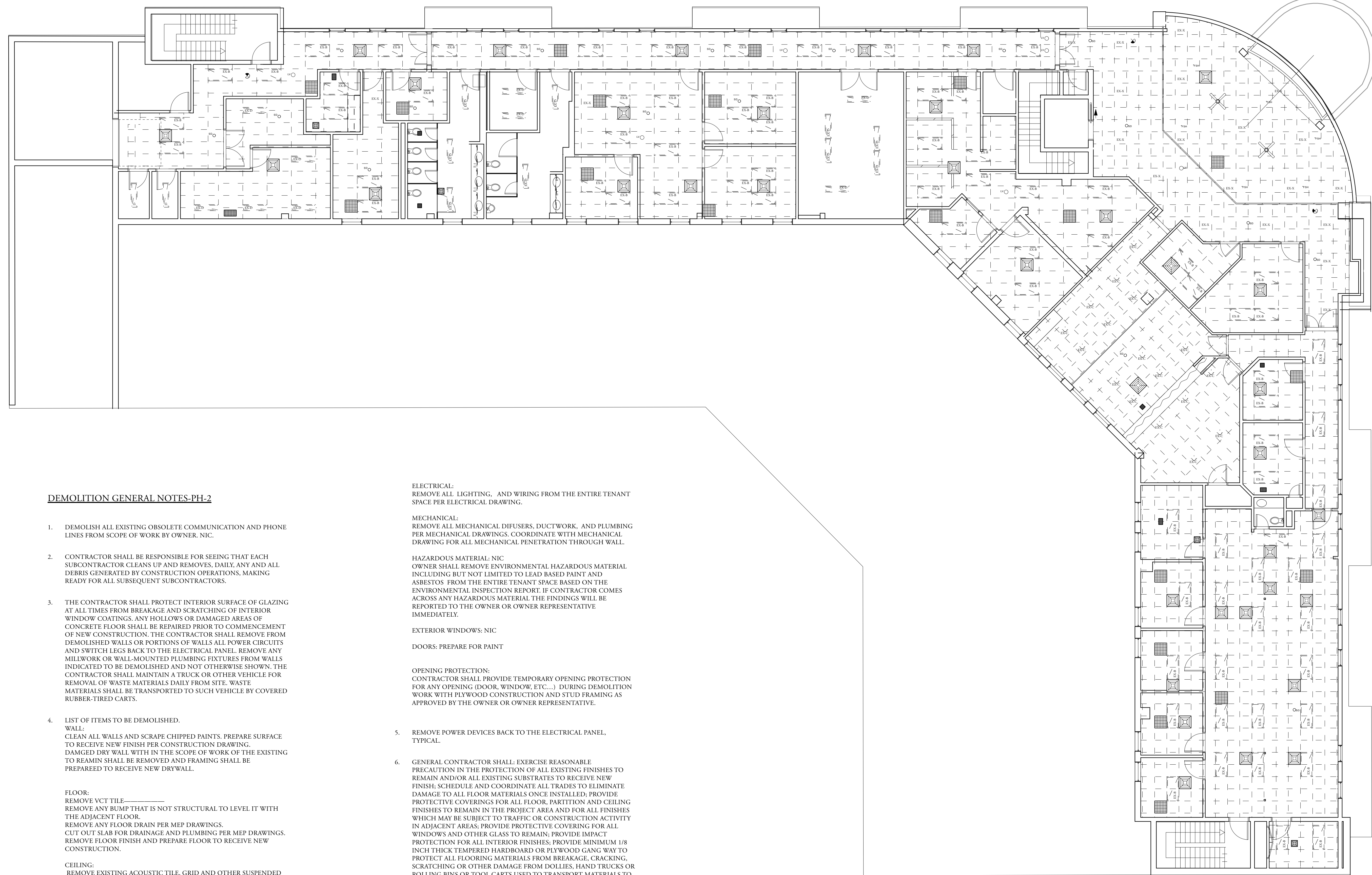
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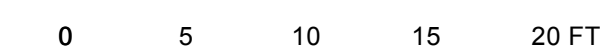
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 CONTRACTOR SHALL PROVIDE TEMPORARY OPENING PROTECTION FOR ANY OPENING (DOOR, WINDOW, ETC...) DURING DEMOLITION WORK WITH PLYWOOD CONSTRUCTION AND STUD FRAMING AS APPROVED BY THE OWNER OR OWNER REPRESENTATIVE.

5. REMOVE POWER DEVICES BACK TO THE ELECTRICAL PANEL, TYPICAL.

6. GENERAL CONTRACTOR SHALL: EXERCISE REASONABLE PRECAUTION IN THE PROTECTION OF ALL EXISTING FINISHES TO REMAIN AND/OR ALL EXISTING SUBSTRATES TO RECEIVE NEW FINISH. SCHEDULE AND COORDINATE ALL TRADES TO ELIMINATE DAMAGE TO ALL FLOOR MATERIALS ONCE INSTALLED; PROVIDE PROTECTIVE COVERINGS FOR ALL FLOOR, PARTITION AND CEILING FINISHES TO REMAIN IN THE PROJECT AREA AND FOR ALL FINISHES WHICH MAY BE SUBJECT TO TRAFFIC OR CONSTRUCTION ACTIVITY IN ADJACENT AREAS; PROVIDE PROTECTIVE COVERING FOR ALL WINDOWS AND OTHER GLASS TO REMAIN; PROVIDE IMPACT PROTECTION FOR ALL INTERIOR FINISHES; PROVIDE MINIMUM 1/8 INCH THICK TEMPERED HARDBOARD OR PLYWOOD GANG WAY TO PROTECT ALL FLOORING MATERIALS FROM BREAKAGE, CRACKING, SCRATCHING OR OTHER DAMAGE FROM DOLLIES, HAND TRUCKS OR ROLLING BINS OR TOOL CARTS USED TO TRANSPORT MATERIALS TO AND FROM PROJECT AREA; EXTEND PROTECTION FROM BUILDING ENTRY(IES) TO PROJECT AREA.

2nd FLOOR REFLECTED CEILING DEMO PLAN

Scale: 1/8" = 1'-0"



E6

AD402

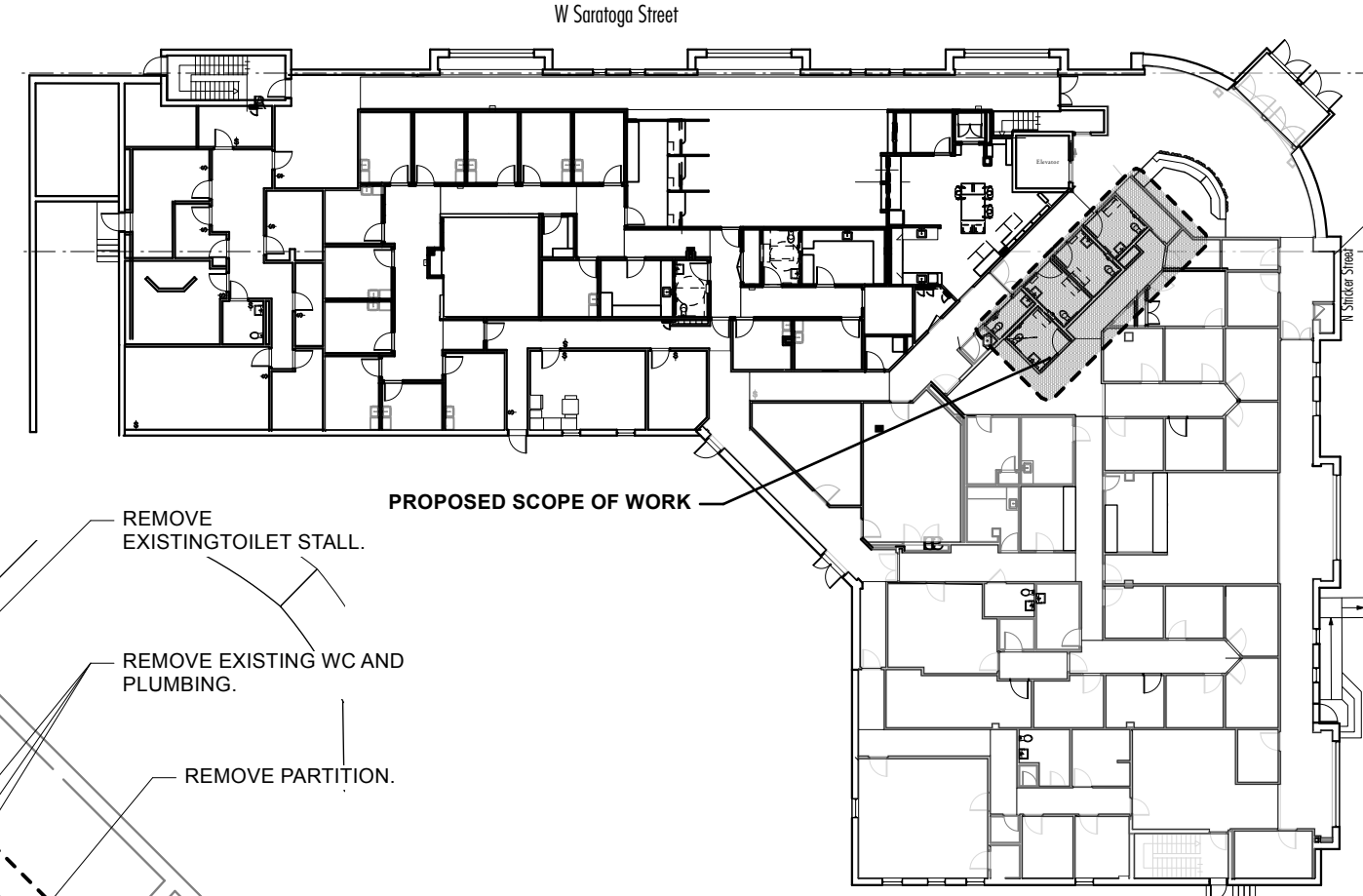
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Material Finish							
A1-2	Ceiling	Anastasiou Ceiling Tile	Rockfon	Hygenic Plus	2x2 Forma	Tile products shall bear the UL Certification Mark for indications employing the UL.	
B1	Wall Base	Johnsmanite wall base	Johnsmanite	262	4" Continuous Cove	Refer to Finish Plan For Finishes	
P1	Wall Paint	Typ Paint	Sherrin Williams	SW6385	Dover White	Refer to Finish Plan For Finishes	
P2	Accent paint					Refer to Finish Plan For Finishes	
P3	Accent paint					Refer to Finish Plan For Finishes	
P4	Paint on Trim					Refer to Finish Plan For Finishes	
RF1	Flooring	VT of DEPTS	Karndean	Opus	Weathered Elm Wp511	Bill Rains, BILL.RAINS@SHERWIN.COM	

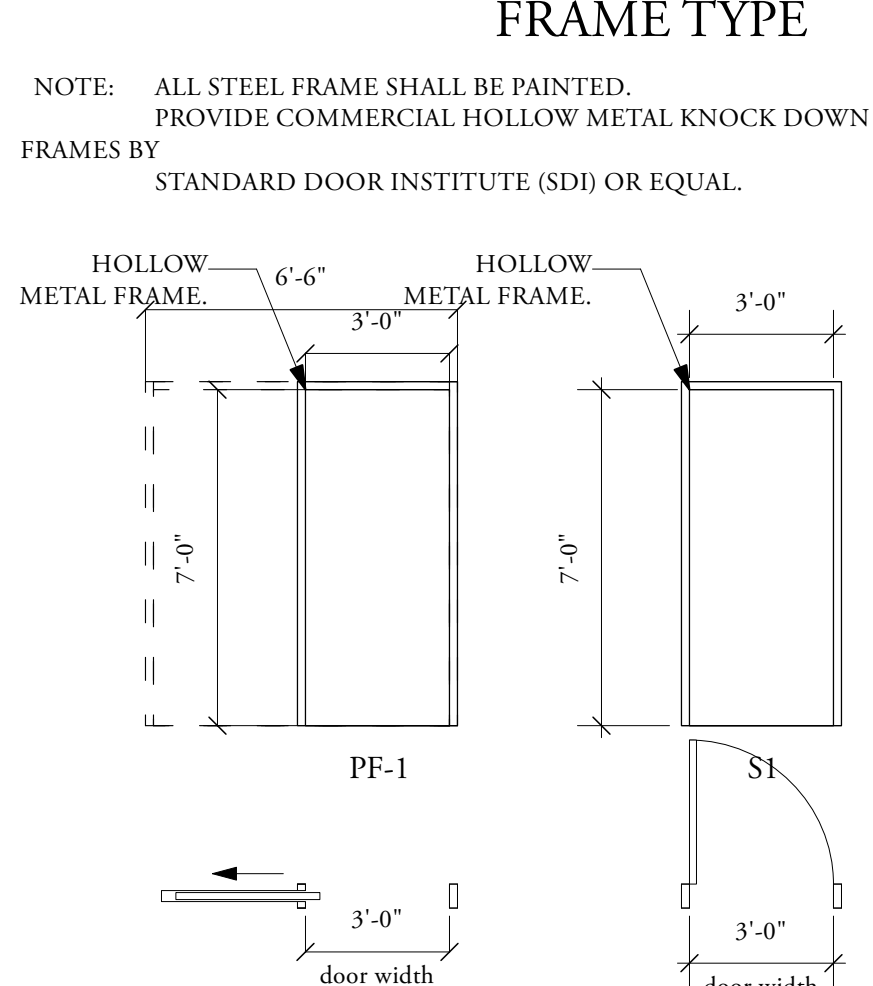
MATERIAL FINISH

B3



KEY PLAN

B3

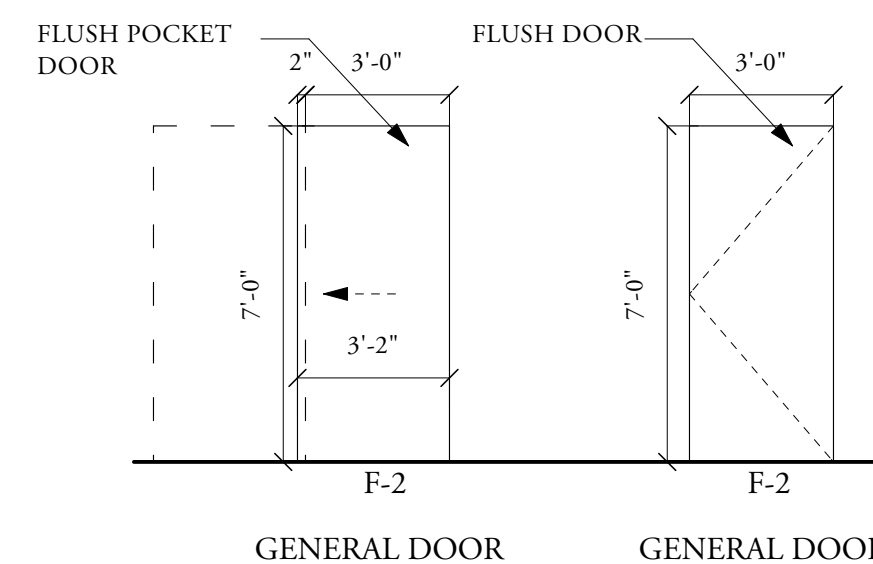


DOOR FRAME TYPE

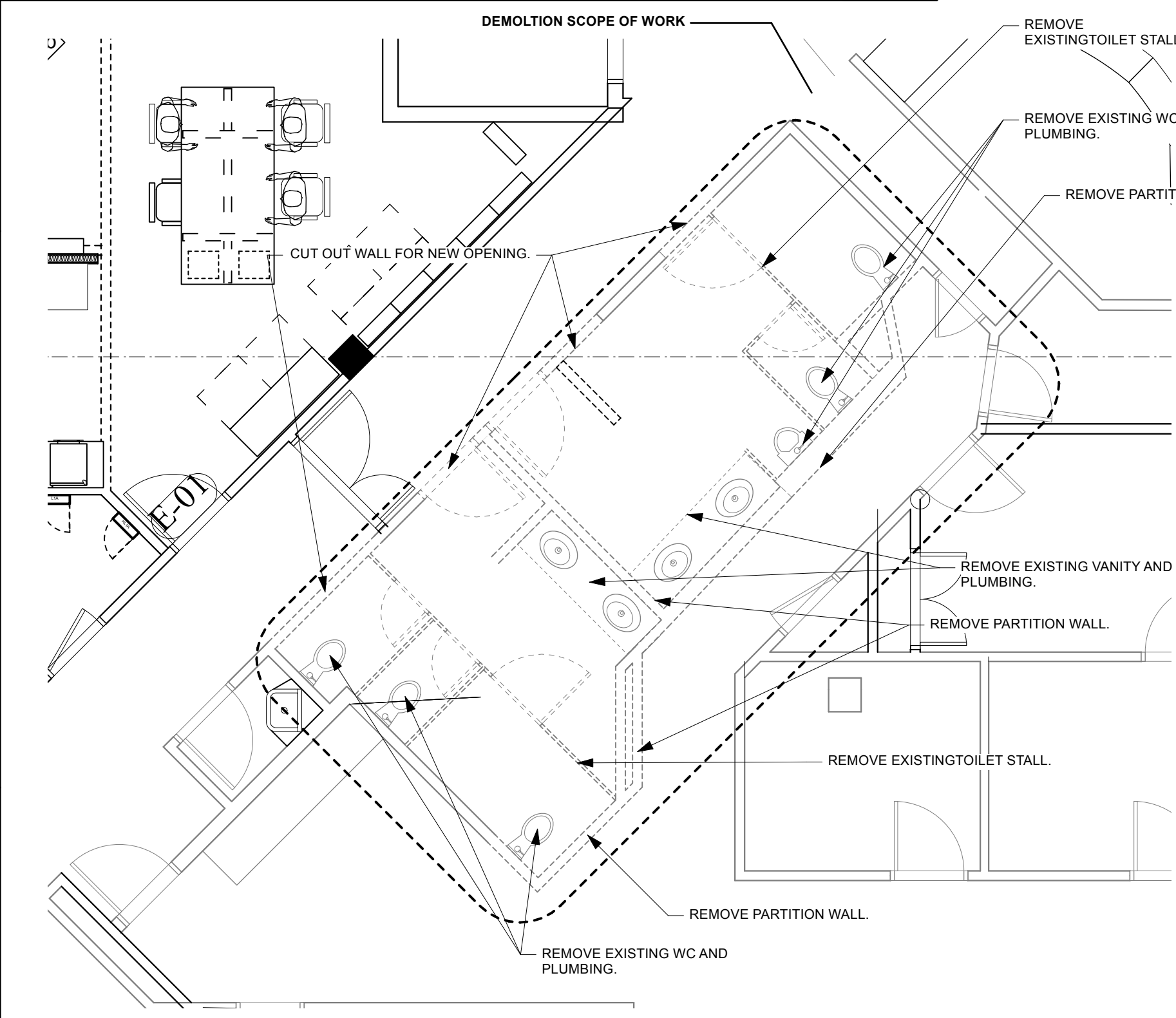
NOTE: ALL STEEL FRAME SHALL BE PAINTED. PROVIDE COMMERCIAL HOLLOW METAL KNOCK DOWN FRAMES BY STANDARD DOOR INSTITUTE (SDI) OR EQUAL.

NOTE: ALL PAINTED DOORS: COLOR TBD. ALL METAL DOORS SHALL BE PAINTED: COLOR TBD.

CONTRACTOR SHALL SUBMIT DOOR, FRAME AND HARDWARE SHOP DRAWING AND SAMPLE FOR REVIEW AND APPROVAL.



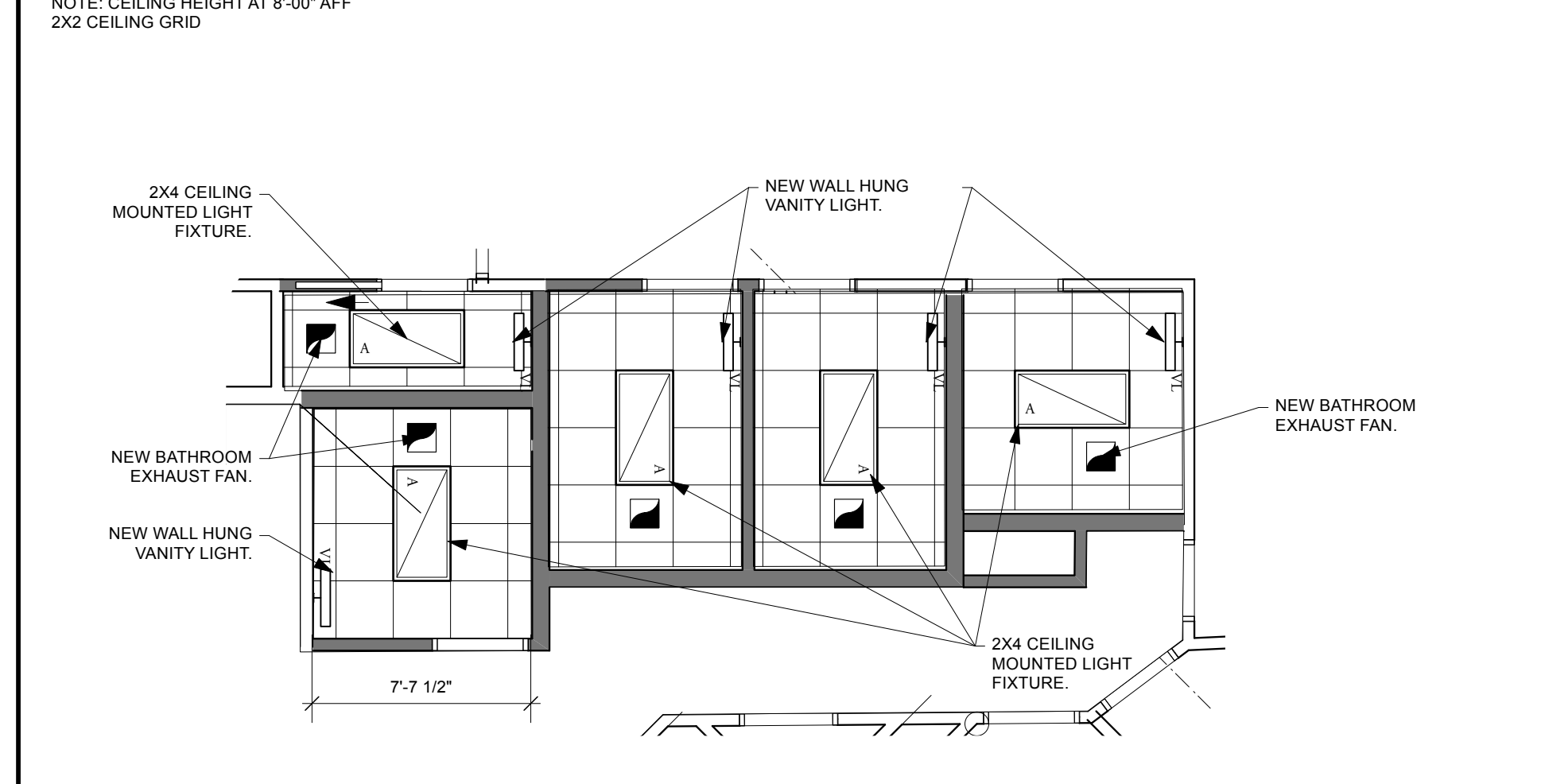
DOOR TYPE



DEMOLITION PLAN

DOOR HARDWARE TYPE

C3



BATHROOM REFLECTED CEILING PLAN

Scale: 3/16" = 1'-0"

TYPE	TOILET ACCESSORIES	MODEL # & MANUFACTURER	FINISH	LOCATION	COMMENT
A	18" GRAB BAR	BOBRICK B-5806 X 36	SATIN FINISH	ADA BATHROOM	
B	24" GRAB BAR	BOBRICK B-5806 X 30	SATIN FINISH	ADA BATHROOM	
C	36" GRAB BAR	BOBRICK B-5806 X 36	SATIN FINISH	ADA BATHROOM	
D	42" GRAB BAR	BOBRICK B-5806 X 42	SATIN FINISH	ADA BATHROOM	
E	48" GRAB BAR	BOBRICK B-5806 X 48	SATIN FINISH	ADA BATHROOM	
G	MIRROR WITH STAINLESS STEEL FRAME	BOBRICK B-165	SATIN FINISH	BATHROOM	
H	SURFACE MOUNTED SOAP DISPENSER	BOBRICK B-5050	HIGH-GLOSS	BATHROOM	
I	TOILET TISSUE PAPER DISPENSER	BOBRICK B-2892	SATIN FINISH	BATHROOM	
J	WALL MOUNTED LAVATORY FIXTURE	Model SS-3006-STG	WHITE	BATHROOM	
K	TOILET FIXTURE WC	A.S. 3461.528	WHITE	BATHROOM	
L	BABY CHANGING STATION	KB110-SSRE	STAINLESS STEEL	ADA BATHROOM	MADERA™ FloWise FIXTURE & FLUSHOMETER
M	TOILET SEAT COVER PAPER DISPENSER	BOBRICK B-3013	SATIN FINISH	BATHROOM	KOALA KARE PRODUCTS KB110-SSRE HORIZONTAL RECESSED MOUNTED
N	PAPER TOWEL DISPENSER AND WEST RECEPTACLE	BOBRICK B-3944	SATIN FINISH	BATHROOM	
O	HOOK	BOBRICK B-6717	SATIN FINISH	BATHROOM	
Q	Triton® Bowe™ Monoblock Mixing Lavatory Faucet	KOHLER (K-100170-5AKL)	STAINLESS STEEL	BATHROOM	COORDINATE FOR A SINGLE HALL SINK
R	Triton® Bowe™ Monoblock Mixing Lavatory Faucet	KOHLER (K-100170-5AKL)	STAINLESS STEEL	EXAM ROOM	COORDINATE FOR A SINGLE HALL SINK

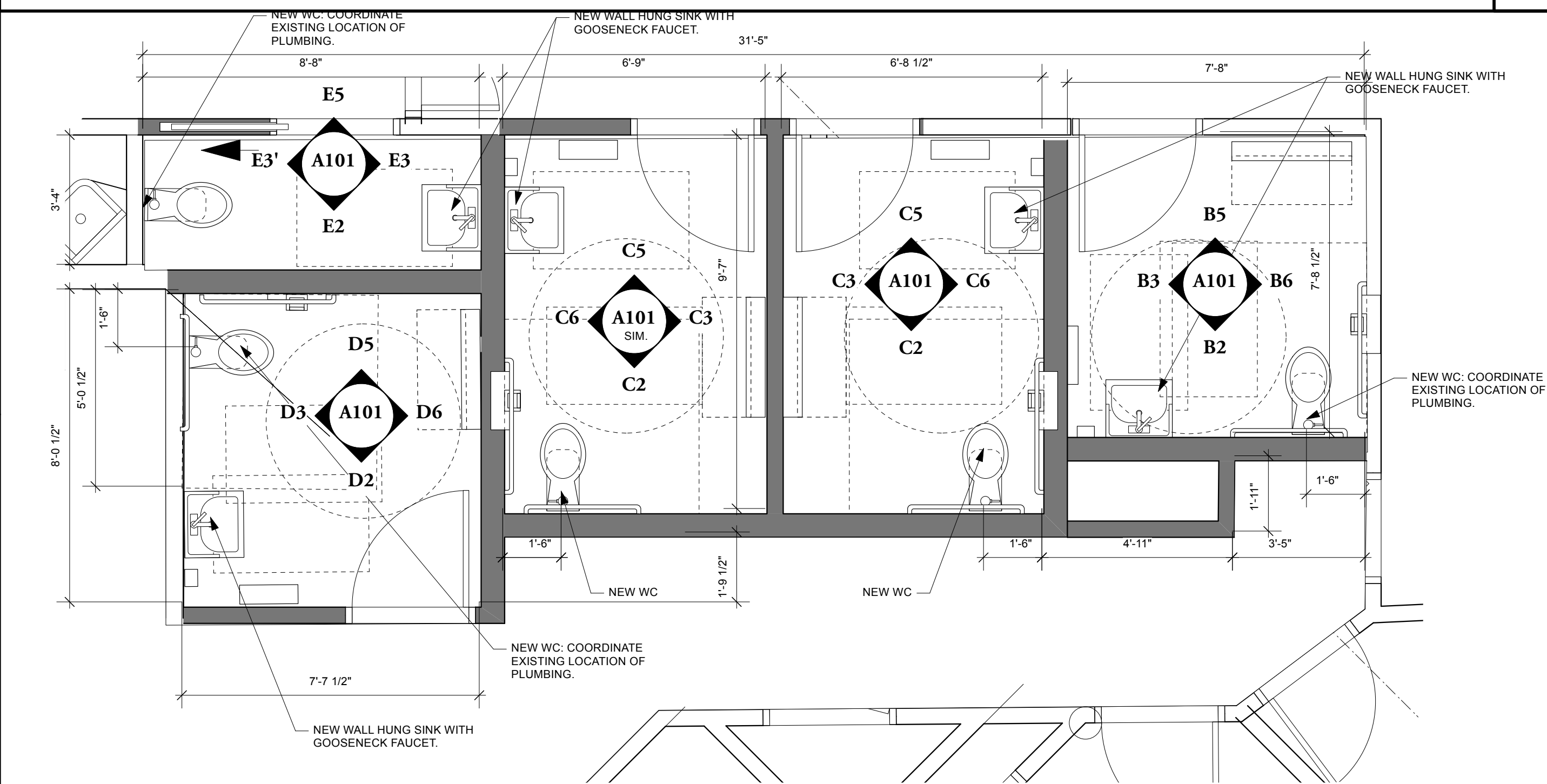
TOILET ACCESSORIES

C3

Room #	Room Name	Floor	Matl	Base	North	Wall	East	South	West	Ceiling	Remarks
SA-100	Toilet	RF-1	B1	P1	P1	P1	P1	P1	P1	ACT-1	New Resilant Flooring
SA-101	Toilet	RF-1	B1	P1	P1	P1	P1	P1	P1	ACT-1	New Resilant Flooring
SA-102	Toilet	RF-1	B1	P1	P1	P1	P1	P1	P1	ACT-1	New Resilant Flooring
SA-103	Toilet	RF-1	B1	P1	P1	P1	P1	P1	P1	ACT-1	New Resilant Flooring
SA-104	Toilet	RF-1	B1	P1	P1	P1	P1	P1	P1	ACT-1	New Resilant Flooring
SA-105	Closet	VT-E	B1	P1	P1	P1	P1	P1	P1	GB-1	Vinyl Tile to remain. Replace damaged area with matching tile.

Room Finish Schedule

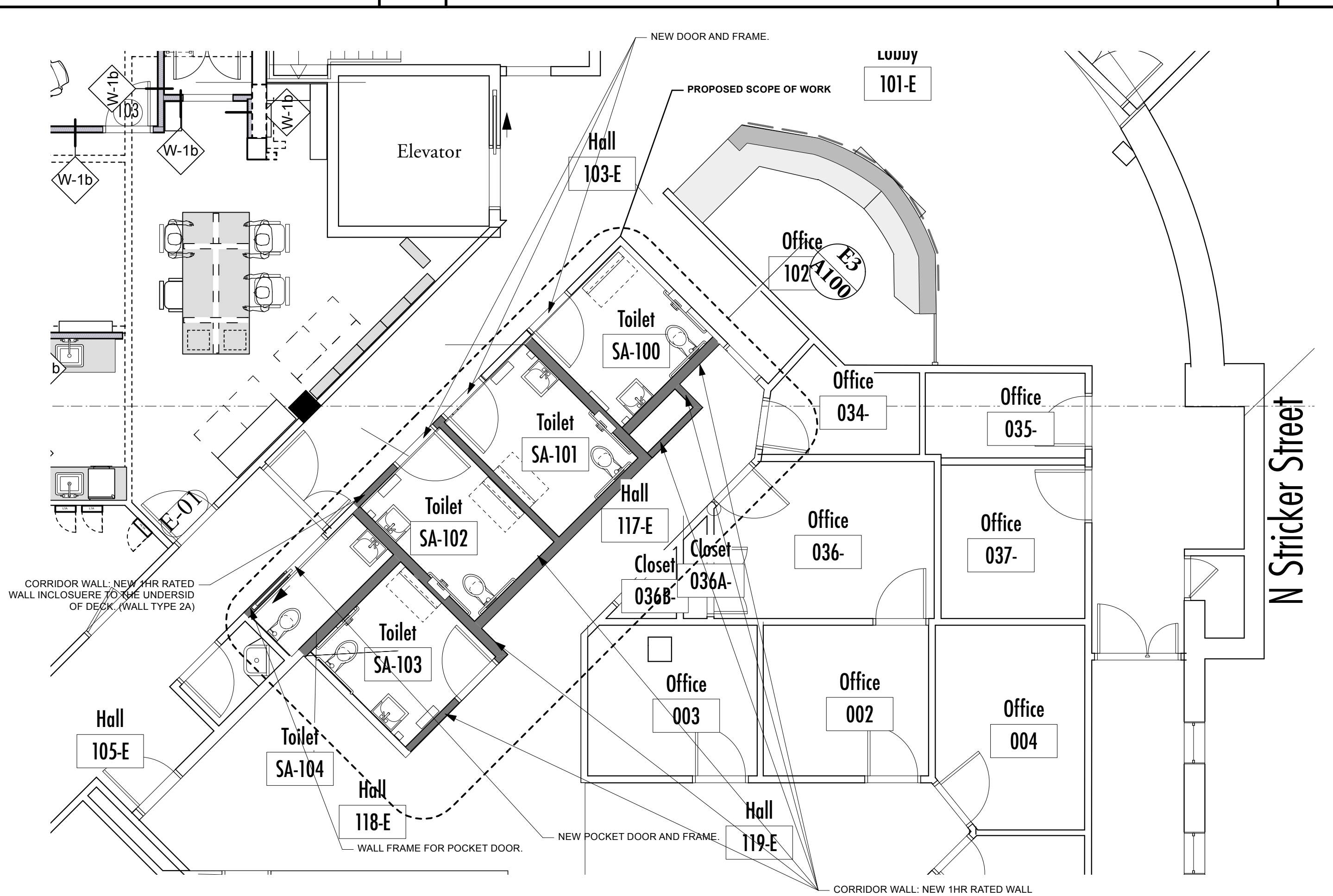
D3



ENLARGED BATH ROOM PLAN

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

E3



CONSTRUCTION PLAN

Scale: 3/16" = 1'-0"

E6



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TOTAL HEALTH
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 Baltimore, MD 21223

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PROJECT # 23010
 BATHROOM FLOOR PLANS

A100

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A	1	2	3	4	5	6
	ELEVATION AT ROOM-AS100 Scale: 1/2" = 1'-0"	ELEVATION AT ROOM-AS100 Scale: 1/2" = 1'-0"	ELEVATION AT ROOM-AS100 Scale: 1/2" = 1'-0"	ELEVATION AT ROOM-AS100 Scale: 1/2" = 1'-0"	ELEVATION AT ROOM-AS100 Scale: 1/2" = 1'-0"	ELEVATION AT ROOM-AS100 Scale: 1/2" = 1'-0"
B	B2	B3	B5	B6		
	ELEVATION AT ROOM-AS101 Scale: 1/2" = 1'-0"	ELEVATION AT ROOM-AS101 Scale: 1/2" = 1'-0"	ELEVATION AT ROOM-AS101 Scale: 1/2" = 1'-0"	ELEVATION AT ROOM-AS101 Scale: 1/2" = 1'-0"		
C	C2	C3	C5	C6		
	ELEVATION AT ROOM-AS101 Scale: 1/2" = 1'-0"	ELEVATION AT ROOM-AS101 Scale: 1/2" = 1'-0"	ELEVATION AT ROOM-AS101 Scale: 1/2" = 1'-0"	ELEVATION AT ROOM-AS101 Scale: 1/2" = 1'-0"	<p>UL U419 Interior Partition - Steel Stud (Non-Load-Bearing) Fire Rating: 1 hours System Thickness: 4.875 in. STC: 48 Assembly Details: Gypsum Board: 1 layer 5/8" Thick Gypsum Board (UL Type UL1X) Steel Studs: 1 layer 3-5/8" [92 mm] steel studs, EQ25 (0.015"), 24" [610 mm] O.C. Insulation: 1 layer 3-1/2" [89 mm] Fiberglass insulation Gypsum Board: 1 layer 5/8" Thick Gypsum Board (UL Type UL1X)</p>	
D	D2	D3	D5	D6	1hr Rated Corridor wall Description	
	ELEVATION AT ROOM-AS103 Scale: 1/2" = 1'-0"	ELEVATION AT ROOM-AS103 Scale: 1/2" = 1'-0"	ELEVATION AT ROOM-AS103 Scale: 1/2" = 1'-0"	ELEVATION AT ROOM-AS103 Scale: 1/2" = 1'-0"	<p>Note: Where required provide Steel Studs: 1 layer -6" metal studs.</p> <p>DECK: METAL STUD TOP TRACK, UNDERSIDE OF DECK ABOVE CEILING: 5/8" TYPE X GYP. BD. ON BOTH SIDE OF METAL STUD, 18 GAGE 3 5/8" METAL STUD, 7/8" RESILIENT CHANNEL, ADD 3.5" THICK MINERAL WOOL INSULATION FLOOR: METAL STUD BOTTOM TRACK</p> <p>NOTE: SMOKE BARRIER PARTITION. EXTEND PARTITION TO THE UNDERSIDE OF DECK. PARTITION SHALL BE SEALED AND CAULKED FOR FULL HEIGHT, TAPE & FINISH ALL GYP. BD. JOINTS & FASTENERS. CAULK AT PERIMETER AND AT ALL PENETRATIONS.</p>	
E	E2	E3'	E3	E5	WALL TYPE W-2a UL U419: 1 hr rated corridor wall.	
	ELEVATION AT ROOM-AS104 Scale: 1/2" = 1'-0"	ELEV @ ROOM AS104 Scale: 1/2" = 1'-0"	ELEV @ ROOM AS104 Scale: 1/2" = 1'-0"	ELEVATION AT ROOM-AS104 Scale: 1/2" = 1'-0"		
	1	2	3	4	5	6

PROJECT # 23010

BATHROOM ELEVATIONS

A101

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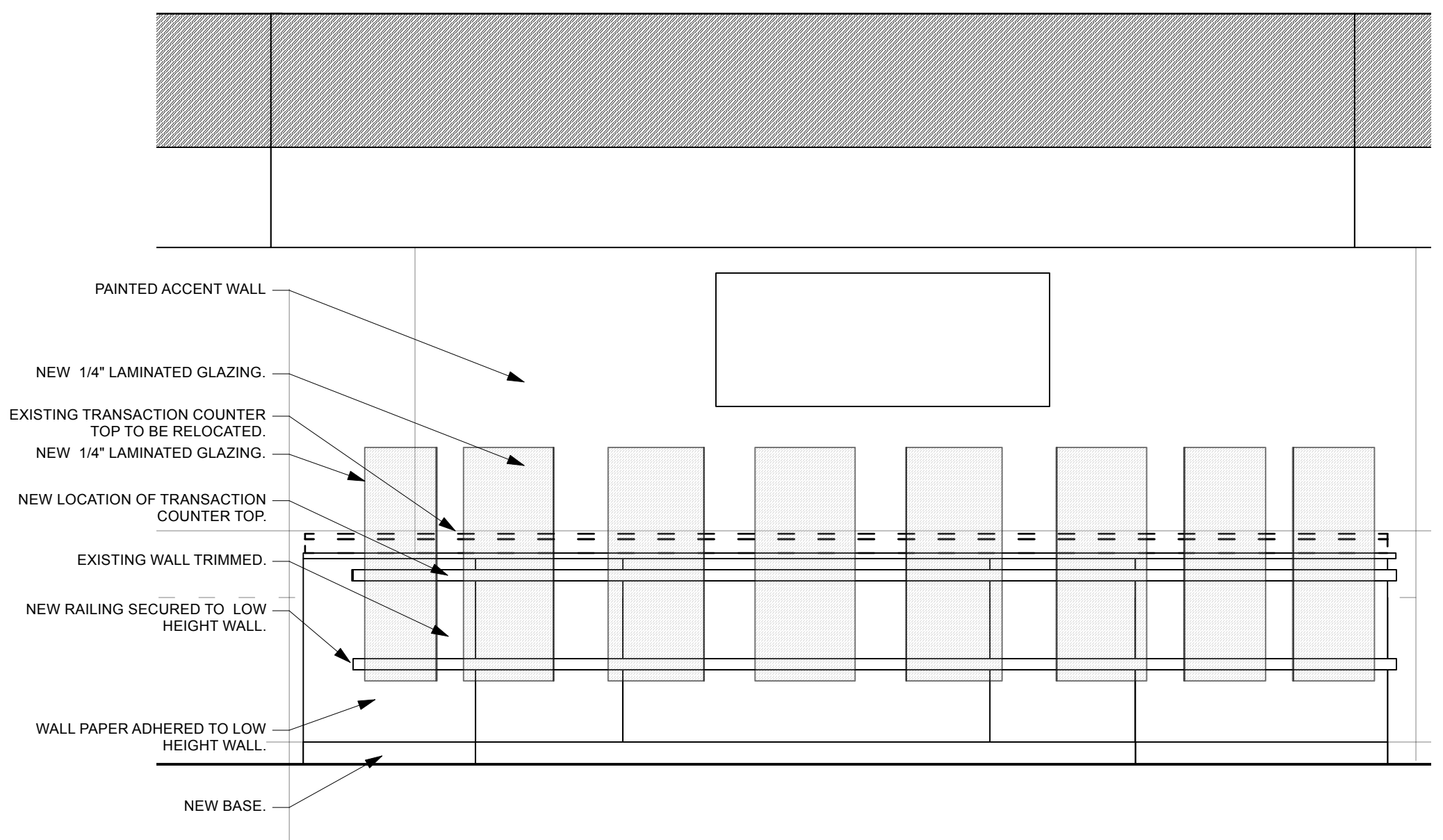
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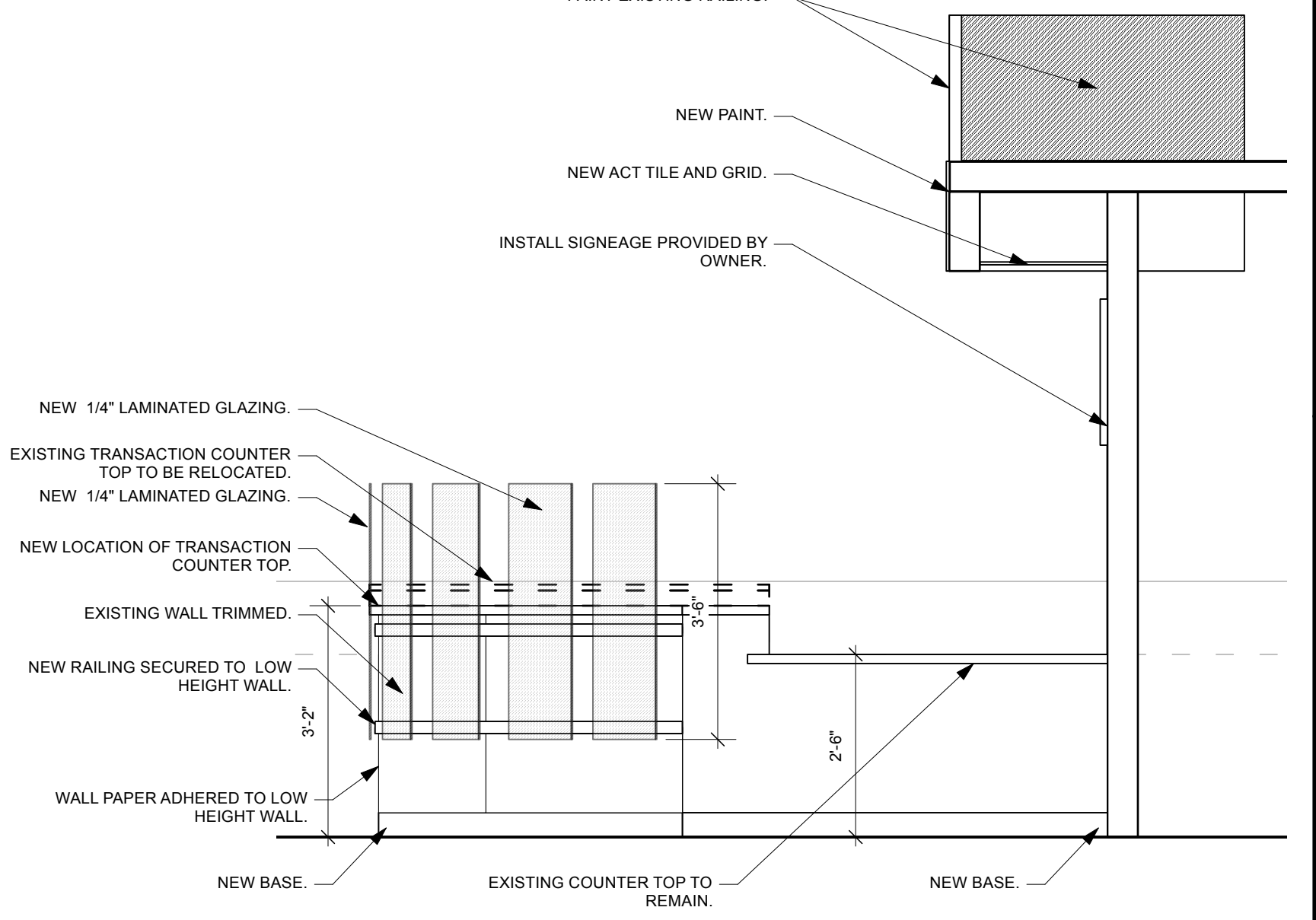
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C5

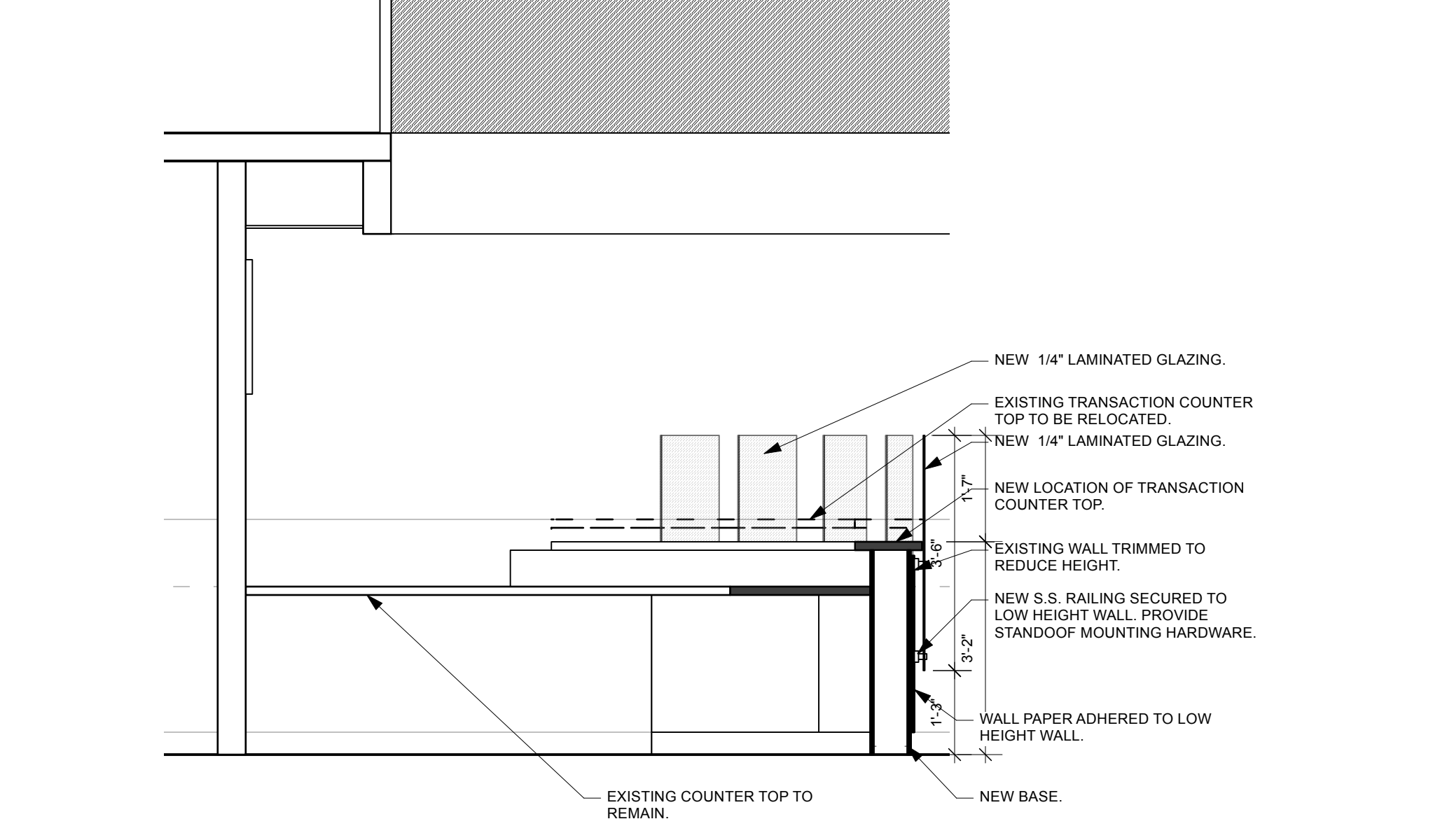
ELEVATION @ RECEPTION DESK
 Scale: 1/2" = 1'-0"

C5



C6

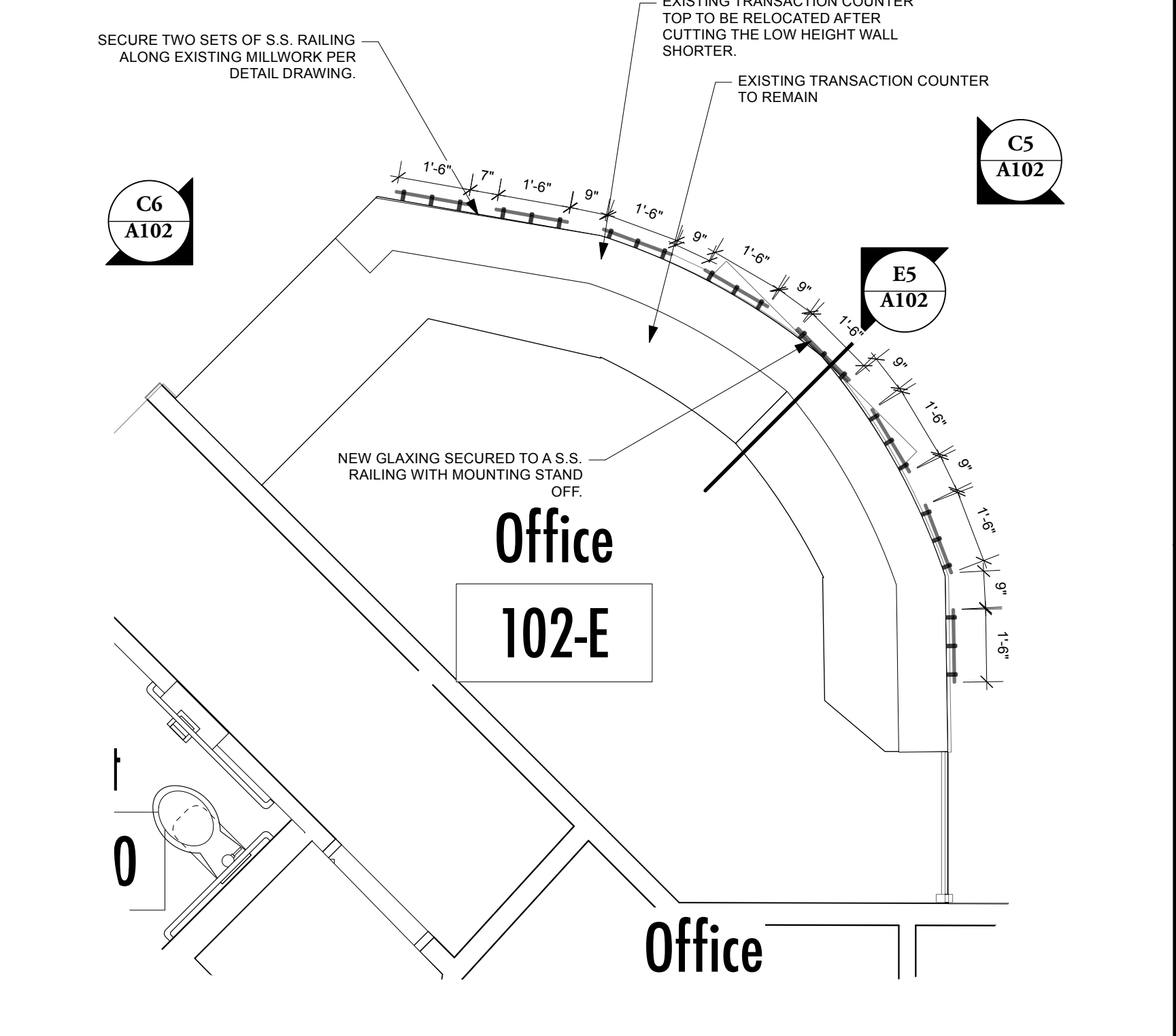
ELEVATION @ RECEPTION DESK
 Scale: 1/2" = 1'-0"



E5

SECTION @ RECEPTION DESK
 Scale: 1/2" = 1'-0"

E5



E6

ENLARGED RECEPTION DESK PLAN.
 Scale: 3/8" = 1'-0"

PROJECT # 23010

ENLARGED PLAN AND DETAILS

A102

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1st Floor RCP

A401

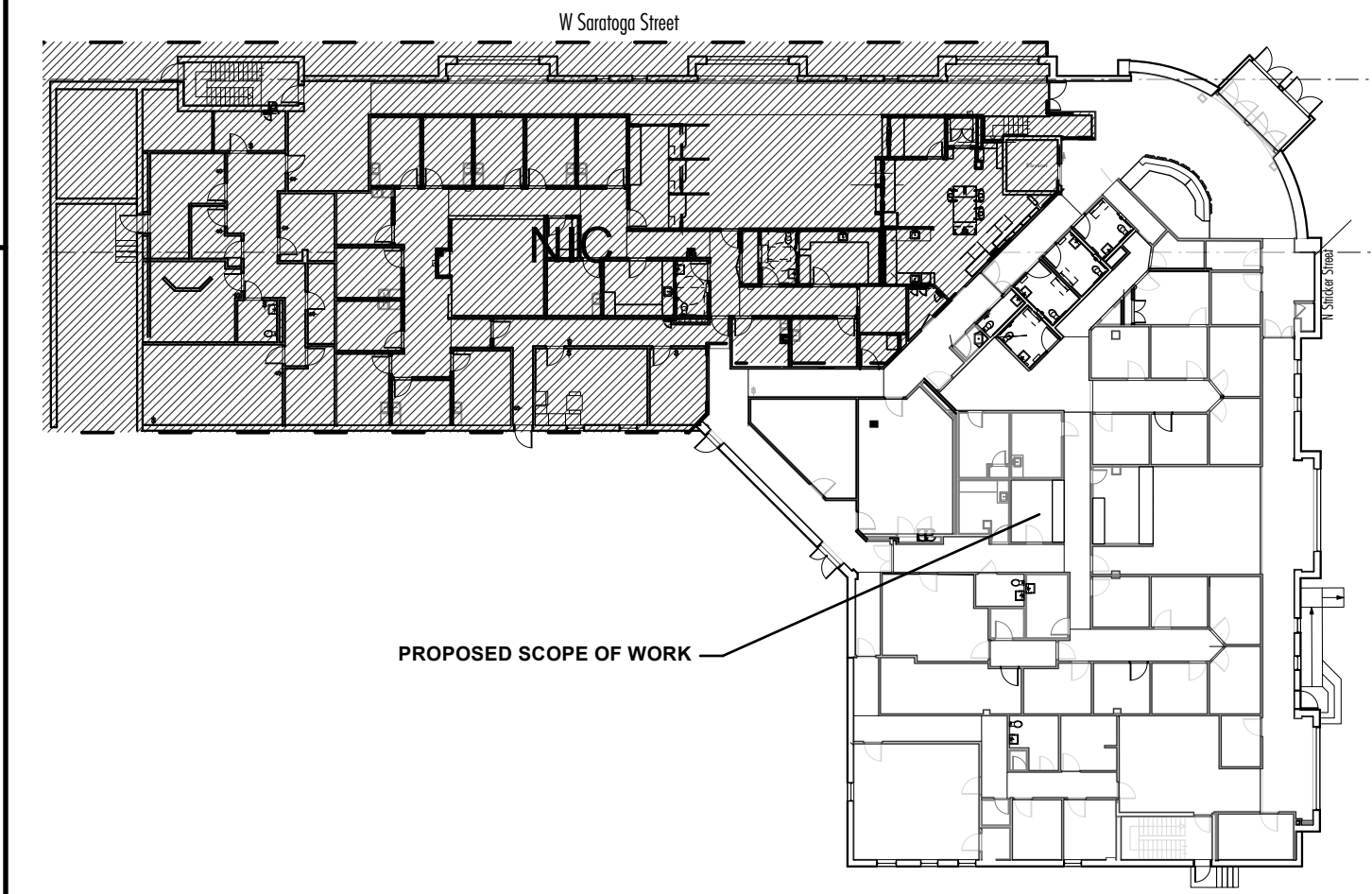
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- EXISTING 24X24 LIGHT
- EXISTING 24X48 LIGHT
- EXISTING 12X48 LIGHT
- EXISTING RECESSED LIGHT
- PROPOSED 24X24 LIGHT
- PROPOSED 24X48 LIGHT
- PROPOSED 12X48 LIGHT
- PROPOSED RECESSED LIGHT
- EXIT LIGHT
- SMOKE DETECTOR
- FIRE SPRINKLER HEAD
- LOW VOLTAGE: CAMERA/DATA BOX
- 24X24 HVAC AIR SUPPLY DIFFUSER
- 12X12 HVAC AIR SUPPLY DIFFUSER
- 24X24 HVAC AIR RETURN DIFFUSER
- 12X24 HVAC AIR RETURN DIFFUSER
- 12X8 HVAC AIR RETURN DIFFUSER
- 8X8 EXHAUST FAN



KEY PLAN
 Scale: 1/32" = 1'-0"
 0 10 20 30 40 FT

B3

1ST FLOOR REFLECTED CEILING PLAN
 Scale: 1/8" = 1'-0"
 0 5 10 15 20 FT

E6



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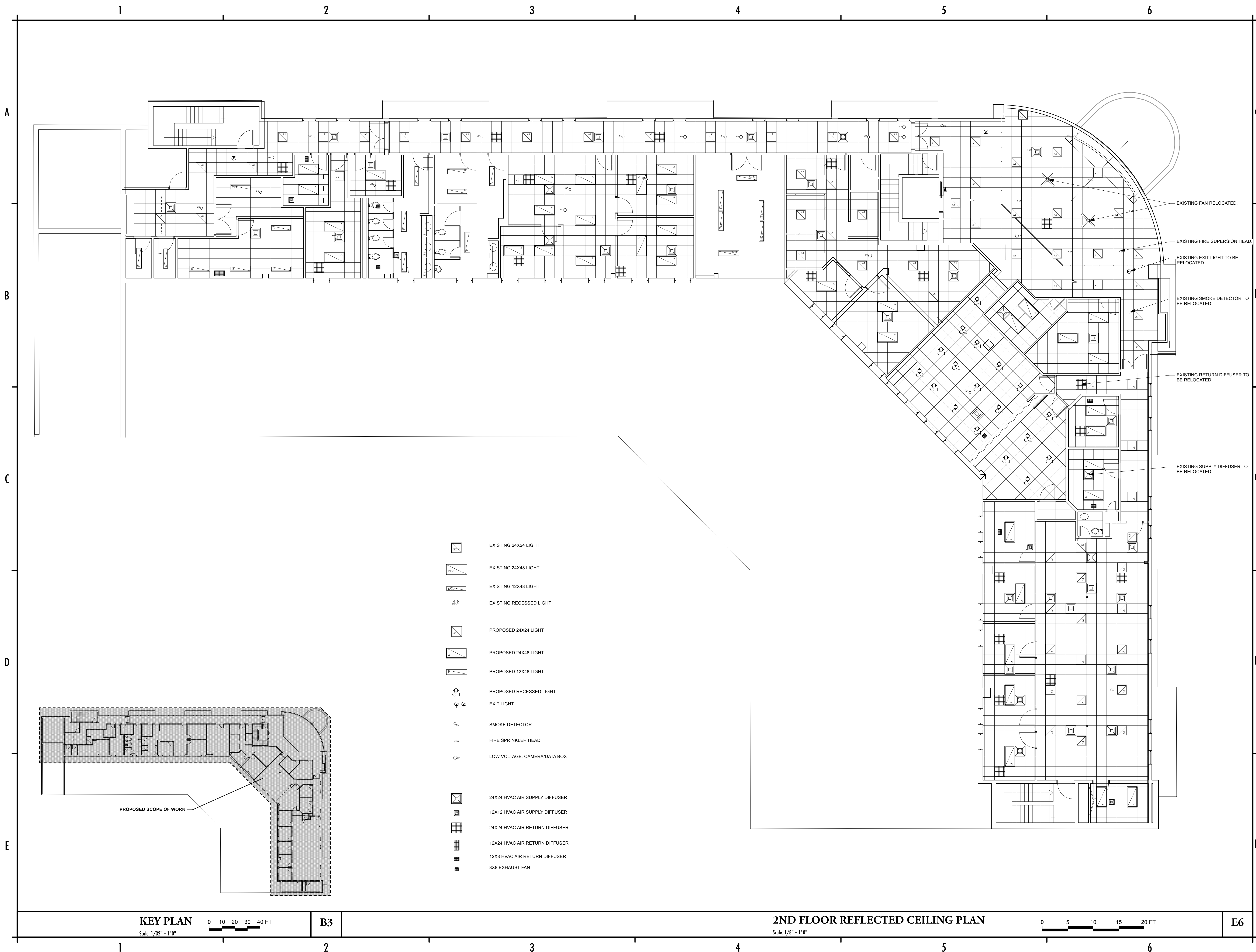
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2nd Floor RCP

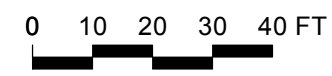
A402

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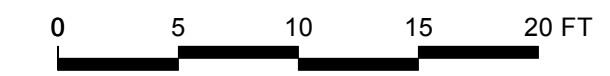


KEY PLAN
 Scale: 1/32" = 1'-0"



B3

2ND FLOOR REFLECTED CEILING PLAN
 Scale: 1/8" = 1'-0"



E6



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**TOTAL HEALTH
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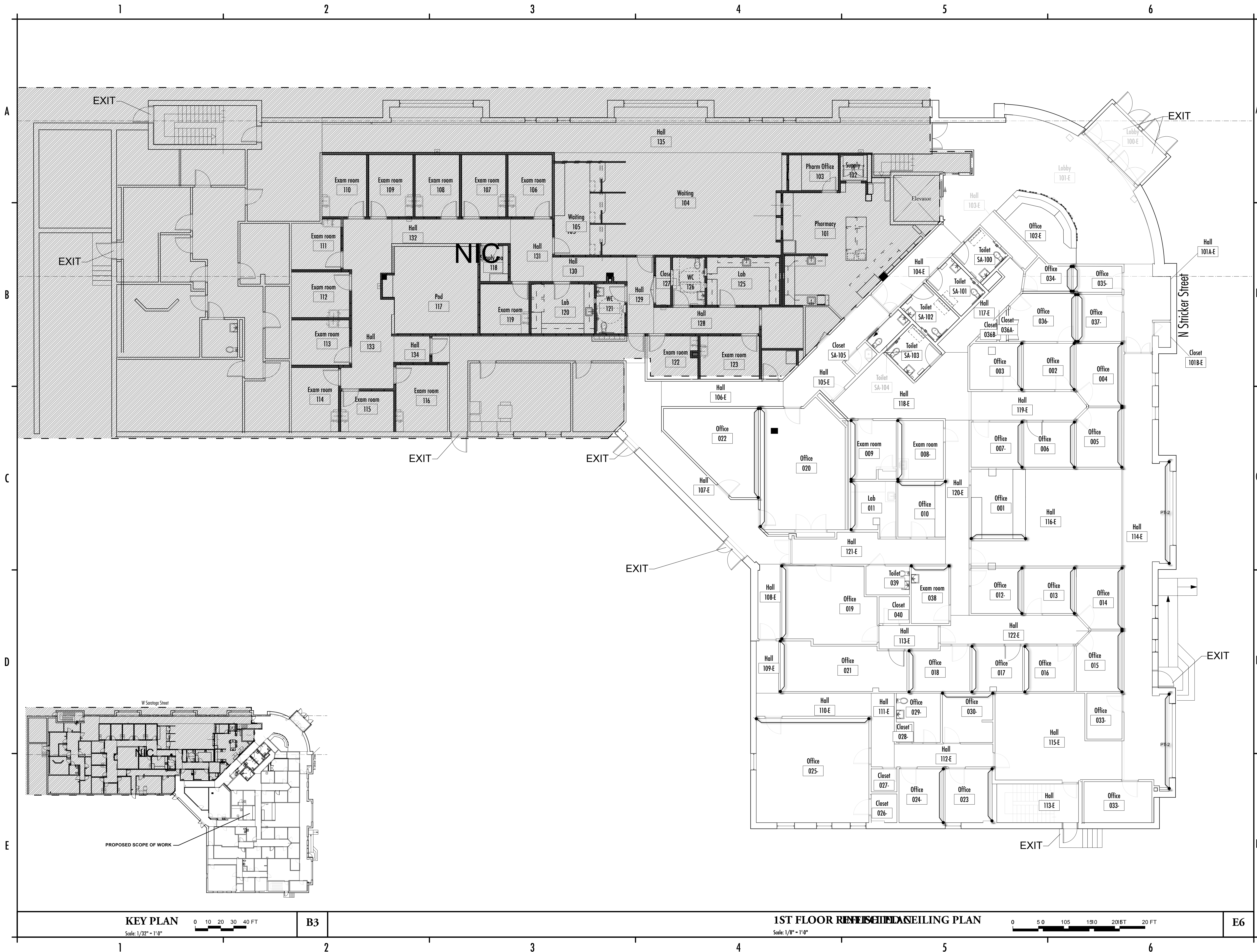
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1st Floor Finish Plan

A701

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KEY PLAN
 Scale: 1/32" = 1'-0"

B3

1ST FLOOR RENOVATION/RESEALING PLAN
 Scale: 1/8" = 1'-0"

0 5 10 15 20 25 30 40 FT

E6



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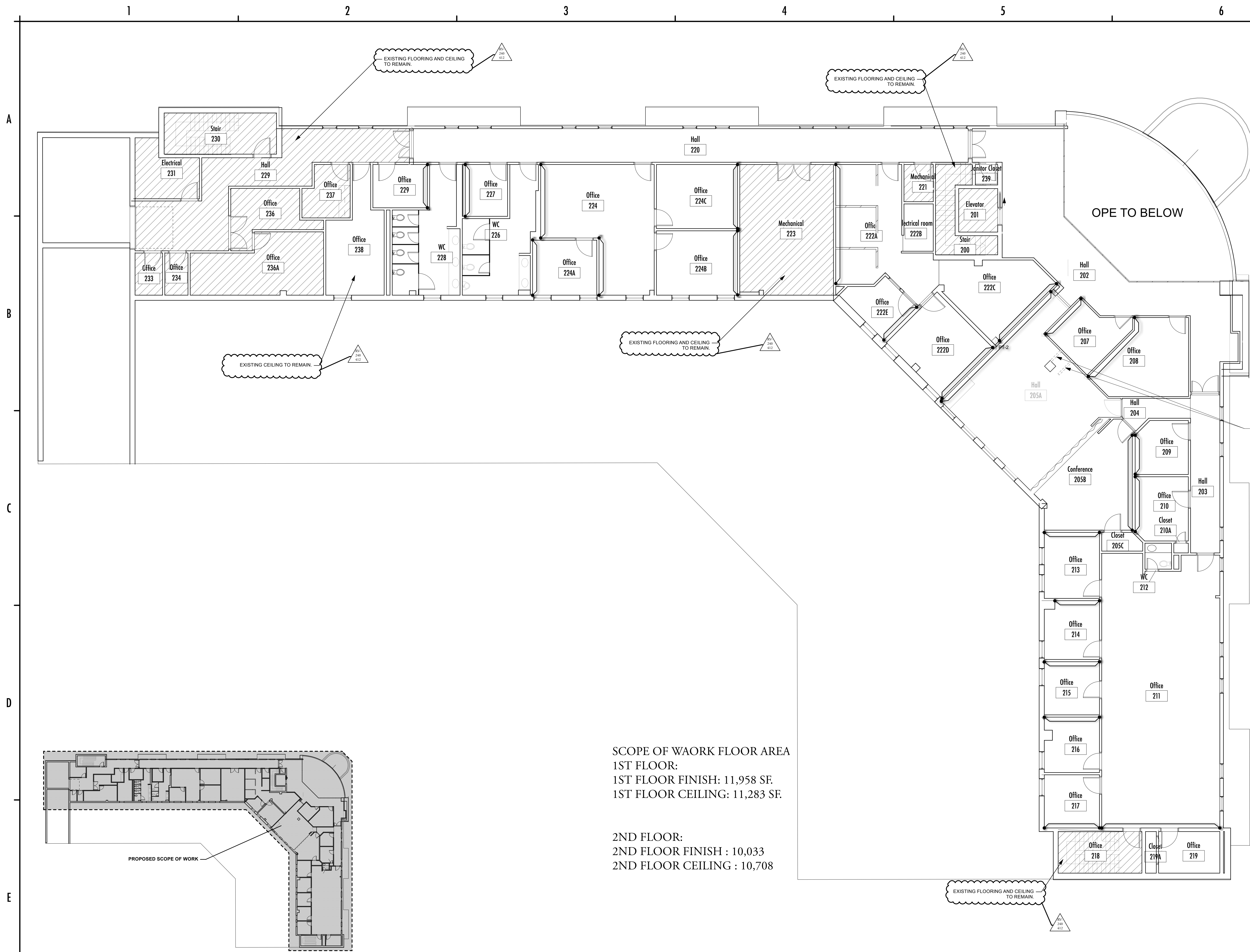
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2nd Floor Finish Plan

A702

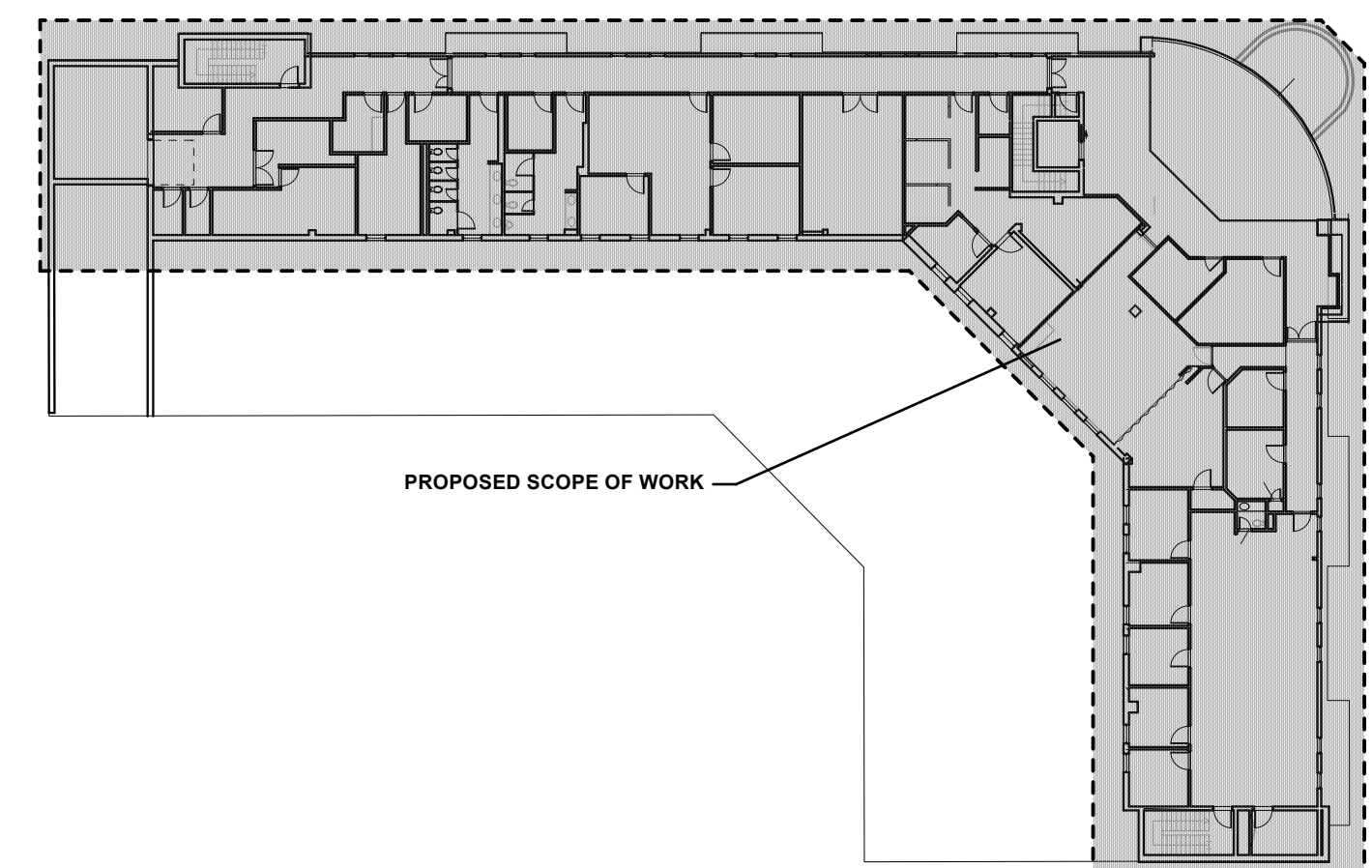
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SCOPE OF WAORK FLOOR AREA
 1ST FLOOR:
 1ST FLOOR FINISH: 11,958 SF
 1ST FLOOR CEILING: 11,283 SF

 2ND FLOOR:
 2ND FLOOR FINISH : 10,033
 2ND FLOOR CEILING : 10,708



KEY PLAN
 Scale: 1/32" = 1'-0"

B3

2ND FLOOR FINISH PLAN
 Scale: 1/8" = 1'-0"

0 5 10 15 20 FT

E6

MECHANICAL GENERAL SPECIFICATION:

1. **INSTALLATION:** INSTALLATION OF DUCTWORK, PIPING, EQUIPMENT, FIXTURES, WIRING, ETC., SHALL BE DONE IN NEAT AND WORKMANLIKE MANNER, AND SHALL CONFORM TO THE LATEST TRADE PRACTICES.
2. **DUCTWORK:** CONSTRUCTION SHALL BE GALVANIZED STEEL AND SHALL BE IN ACCORDANCE WITH THE LATEST ISSUE OF "SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION" (SMACNA) RECOMMENDATIONS. ALL NEW DUCTWORK SHALL BE INSTALLED AS HIGH AS POSSIBLE. DUCTWORK DIMENSIONS ARE CLEAR INSIDE DIMENSIONS. ALL NEW AND EXISTING DUCTWORK SHALL BE SEALED PER SMACNA. ENSURE PROPER ACCESS TO FIRE DAMPERS, AND DEVICES REQUIRING SERVICE. INSTALLATION PER SMACNA RECOMMENDATIONS. DUCTS SHALL NOT LAY ACROSS LIGHT FIXTURES OR ANY OTHER SURFACES. DUCT SIZES SHOWN ARE INSIDE DIMENSIONS REQUIRED, DUCTWORK SIZES MUST BE ADJUSTED FOR THICKNESS OF THE INSULATION AND SOUND LINING. DUCT FLEXIBLE CONNECTOR SHALL BE PROVIDED BETWEEN DUCTWORK AND EQUIPMENT SUCH AS FCU, AHU, RTU, & FAN.
3. **INSULATION:**
 - INSULATE SUPPLY, OUTSIDE, & RETURN AIR DUCTWORK:
 - INDOOR: NOT REQUIRED FOR EXPOSED DUCTWORK IN CONDITIONED SPACES. MINIMUM R-6 INSTALL VALVE FOR CONCEALED DUCT WITH WORK/FIBER GLASS DUCT WRAP WITH FOIL REINFORCED KRAFT FACING.
 - OUTDOOR: MINIMUM R-8 BOARD INSULATION WITH WEATHER RESISTANT WATERPROOF JACKET.
4. **SEALING:** ALL DUCTS, AIR HANDLERS, AND FILTER BOXES SHALL BE SEALED. JOINTS AND SEAMS SHALL COMPLY WITH IMC CODE. TAPE AND MASTIC USED TO SEAL METALLIC AND FLEXIBLE AIR DUCTS AND FLEXIBLE AIR CONNECTORS SHALL COMPLY WITH UL 181B AND SHALL BE MARKED "181 B-FX" FOR PRESSURE SENSITIVE TAPE OR "181 BM" FOR MASTIC.

BASIC MECHANICAL REQUIREMENTS:

- A. THE WORK OF EACH OF THE MECHANICAL SECTIONS INCLUDES FURNISHING AND INSTALLING THE MATERIAL, EQUIPMENT, AND SYSTEMS COMPLETE AS SPECIFIED AND/OR INDICATED ON THE DRAWINGS. THE MECHANICAL INSTALLATIONS, WHEN FINISHED, SHALL BE COMPLETE AND COORDINATED, READY FOR SATISFACTORY SERVICE. THE TERM MECHANICAL USED IN THIS SECTION SHALL INCLUDE THE WORK OF PLUMBING, AS WELL AS HEATING, AIR CONDITIONING AND VENTILATION CONTRACTORS.
- B. CODE COMPLIANCE: ALL WORK UNDER THIS CONTRACT SHALL BE DONE IN STRICT ACCORDANCE WITH ALL APPLICABLE MUNICIPAL, STATE, COUNTY, NFPA, IBC, IMC, & IECC CODES THAT GOVERN EACH PARTICULAR TRADE.
- C. PERMIT FEES: THE CONTRACTOR SHALL MAKE APPLICATIONS AND PAY ALL CHARGES FOR ALL NECESSARY PERMITS, LICENSES AND INSPECTIONS AS REQUIRED UNDER THE ABOVE CODES. UPON COMPLETION OF THE WORK, THE CUSTOMARY CERTIFICATIONS OF APPROVAL SHALL BE FURNISHED.
- D. MATERIAL APPROVALS: NO MATERIALS OR EQUIPMENT SHALL BE USED IN THE WORK UNTIL APPROVED. BEFORE SUBMISSION OF THE SHOP DRAWINGS, AND NOT MORE THAN THIRTY (30) DAYS AFTER AWARD OF THE CONTRACT, THE CONTRACTOR SHALL SUBMIT FOR APPROVAL A COMPLETE LIST OF MATERIALS AND EQUIPMENT WHICH HE INTENDS TO FURNISH, GIVING MANUFACTURER AND CATALOG NUMBERS.
- E. DOCUMENT EXAMINATIONS: THE CONTRACTOR SHALL EXAMINE ALL DRAWINGS AND SPECIFICATIONS FOR CORRECTNESS AND CODE COMPLIANCE. FAILURE TO COMPLY WITH THIS REQUIREMENT WILL NOT RELIEVE THE CONTRACTOR OF RESPONSIBILITY FOR COMPLYING WITH THE INTENT OF THE CONTRACT DOCUMENTS.
- F. DOCUMENT INTENTIONS: THE DRAWINGS INDICATE THE GENERAL ARRANGEMENT OF THE MECHANICAL INSTALLATIONS. DETAILS OF PROPOSED DEPARTURES DUE TO ACTUAL FIELD CONDITIONS OR OTHER CAUSES SHALL BE SUBMITTED FOR APPROVAL PRIOR TO INSTALLATION. REWORKING OF COMPLETED ITEMS DUE TO IMPROPER FIELD COORDINATION SHALL BE AT THE CONTRACTOR'S EXPENSE.
- G. ACCESS AND CLEARANCES: PROVIDE SUFFICIENT ACCESS AND CLEARANCE FOR ALL ITEMS OF EQUIPMENT REQUIRING SERVICING AND MAINTENANCE, SUCH AS VALVES, DAMPERS, CONTROLS, DRIVES, DRAINS, VENTS, SWITCHES, FILTERS, TRAPS, AND MAJOR ITEMS OF EQUIPMENT.
- H. CUTTING AND PATCHING: THE CONTRACTOR SHALL PERFORM ALL NECESSARY CUTTING AND PATCHING AS REQUIRED TO COMPLETE THE INSTALLATION OF THE MECHANICAL WORK. PATCHING OF WALLS, FLOORS, CEILINGS, ROOF, ETC. SHALL MATCH THE ADJACENT SURFACES. CUTTING OF WALLS AND FLOORS SHALL BE COORDINATED WITH THE STRUCTURAL ENGINEER TO AVOID CUTTING OF REBARS, CONDUIT, ETC. EMBEDDED IN WALLS AND FLOORS.
- I. INFORMATION BOOKS: AS BUILT: THE CONTRACTOR SHALL PREPARE THREE (3) COPIES OF A RECORD (AS BUILT) AND INFORMATION BOOKLET. THE BOOKLET SHALL BE BOUND IN A THREE-RING LOOSE-LEAF BINDER. PROVIDE THE FOLLOWING DATA IN THE BOOKLET:
 - CATALOG DATA ON EACH PIECE OF EQUIPMENT FURNISHED.
 - APPROVED SHOP DRAWINGS ON EACH PIECE OF EQUIPMENT FURNISHED.
 - MAINTENANCE, OPERATION AND LUBRICATION INSTRUCTION ON EACH PIECE OF EQUIPMENT FURNISHED.
 - MANUFACTURER'S AND CONTRACTOR'S WARRANTIES.
 - TESTING AIR BALANCING (TAB) REPORTS.
- J. BASIC WARRANTY: ALL NEW MECHANICAL INSTALLATIONS, INCLUDING ALL MATERIALS AND LABOR, SHALL BE GUARANTEED FOR A PERIOD OF ONE (1) YEAR FROM DATE OF OWNER ACCEPTANCE. THE ABOVE SHALL NOT IN ANY WAY VOID OR ABROGATE EQUIPMENT MANUFACTURER'S WARRANTY OR WARRANTY. CERTIFICATES OF WARRANTY SHALL BE DELIVERED TO THE OWNER.

GENERAL NOTES

1. THE PLANS DO NOT NECESSARILY INDICATE EVERY FITTINGS ELBOWS OFFSETS, VALVES, ETC. WHICH IS REQUIRED TO ACCOMPLISH THE NEW EQUIPMENT INSTALLATION. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE MATERIALS AND WORK TO ACCOMMODATE THE NEW INSTALLATION, FINISHED, TESTED AND READY.
2. CONTRACTOR SHALL CONSIDER THE DRAWINGS AS BEING DIAGRAMMATIC AND THESE DRAWINGS SHALL NOT BE USED AS ERECTION DRAWINGS.
3. ALL MECHANICAL PLANS ARE DIAGRAMMATIC IN FORM. THE MECHANICAL CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF ALL MECHANICAL SYSTEMS FOR APPROVAL BEFORE INSTALLATION.
4. DUCT SIZES SHOWN ARE INSIDE DIMENSIONS REQUIRED, DUCTWORK SIZES MUST BE ADJUSTED FOR THICKNESS OF THE INSULATION AND SOUND LINING.
5. ALL NEW EQUIPMENT, ASSOCIATED CONTROLS, AND ACCESSORIES SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
6. ALL WORK IS NEW AND SHALL UTILIZE NEW PRODUCTS, UNLESS NOTED OTHERWISE.
7. UNLESS AS NOTED OTHERWISE, NO FLEX DUCT SHALL BE USED ON THIS PROJECT.
8. NO PIPING SHALL BE PLACED IN OUTSIDE WALLS. ALL HVAC PIPING SHALL BE PLACED IN INSIDE PARTITIONS.
9. ALL WALL PENETRATIONS MUST BE THOROUGHLY SEALED AGAINST AIR INFILTRATION.

SYMBOLS

- NOTE: NOT ALL SYMBOLS APPLY TO THIS PROJECT
- EXISTING WORK TO REMAIN
 - CONNECT NEW TO EXISTING
 - INDICATES EXTENT OF DEMOLITION
 - SINGLE LINE SUPPLY DUCTWORK
 - SINGLE LINE RETURN DUCTWORK
 - SINGLE LINE OUTSIDE AIR DUCTWORK
 - SINGLE LINE EXHAUST DUCTWORK
 - DUCT TRANSITION FITTING
 - SUPPLY/MAKE-UP DUCT TURNING DOWN
 - SUPPLY/MAKE-UP DUCT TURNING UP
 - RETURN DUCT TURNING UP
 - RETURN DUCT TURNING DOWN
 - EXHAUST DUCT TURNING UP
 - EXHAUST DUCT TURNING DOWN
 - DUCT SIZE SECOND NUMBER INDICATES DEPTH
 - DIAMETER
 - THERMOSTAT
 - THERMOSTAT/SENSOR FOR TERMINAL BOX #2
 - VOLUME DAMPER
 - FIRE DAMPER
 - SUPPLY AIR
 - RETURN OR EXHAUST AIR
 - OUTSIDE AIR
 - INDICATES PLAN NOTE NUMBER 1
 - MOTORIZED DAMPER
 - FLEXIBLE DUCT CONNECTOR

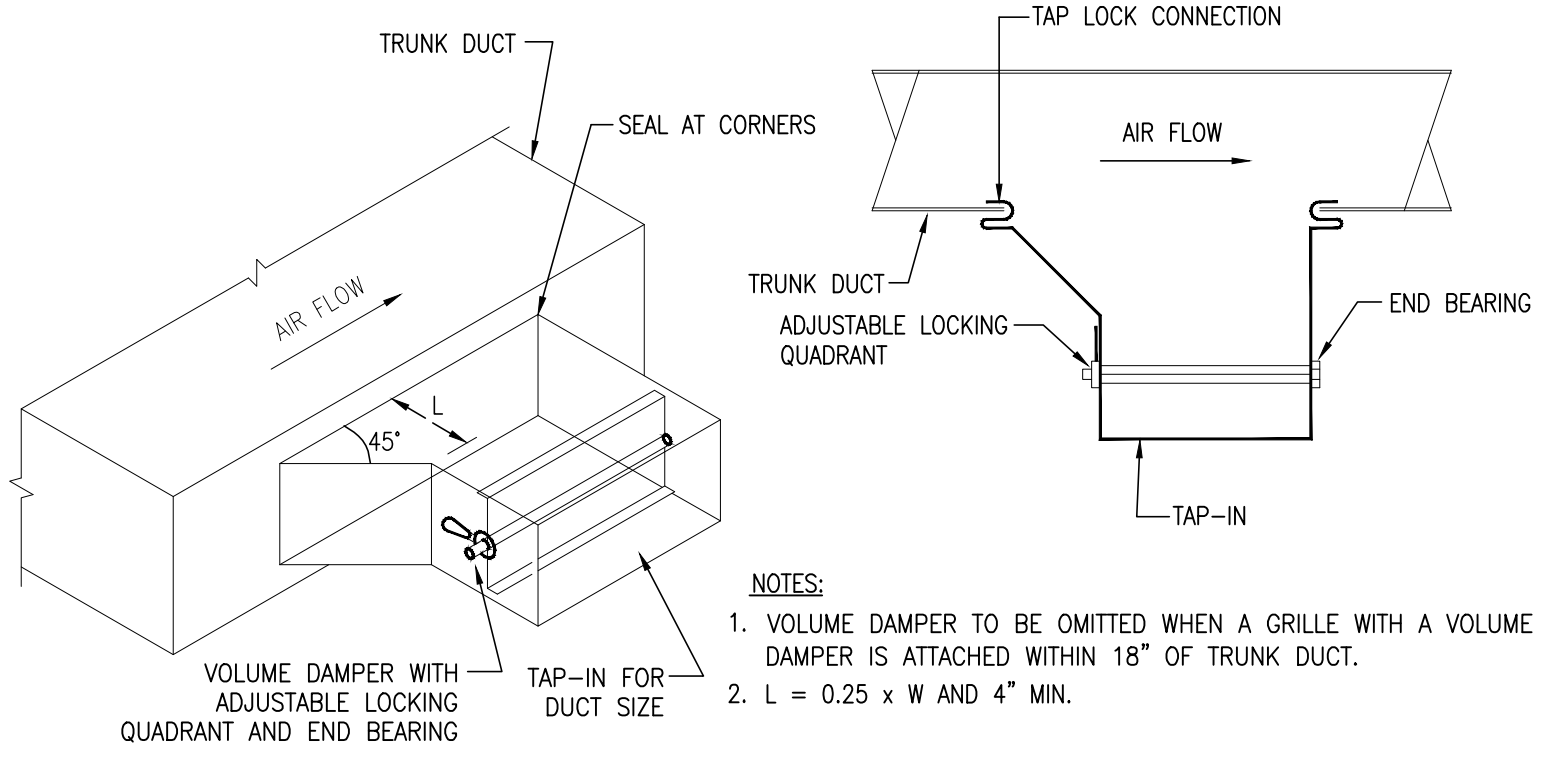
ABBREVIATIONS

- NOTE: NOT ALL SYMBOLS AND ABBREV. APPLY TO THIS PROJECT.
- AFF ABOVE FINISHED FLOOR
 - AMPS AMPERES
 - BDD BACKDRAFT DAMPER
 - BS BIRD SCREEN
 - BTU/HR BRITISH THERMAL UNIT PER HOUR
 - CD CONDENSATE DRAIN
 - CFM CUBIC FEET PER MINUTE
 - CEG CEILING EXHAUST GRILLE
 - CRG CEILING RETURN GRILLE
 - CSR CEILING SUPPLY REGISTER
 - CS CEILING SUPPLY
 - DB DRY BULB
 - DEMO DEMOLITION
 - DIA DIAMETER
 - DN DOWN
 - DWG DRAWING
 - (E) EXISTING
 - EA EXHAUST AIR
 - EAD EXHAUST AIR DUCT
 - EF EXHAUST FAN
 - ETR EXISTING TO REMAIN
 - ESP EXTERNAL STATIC PRESSURE
 - F DEGREE FAHRENHEIT
 - F/A FROM ABOVE
 - F/B FROM BELOW
 - FCU FAN COIL UNIT
 - FPM FEET PER MINUTE
 - H HEIGHT
 - HP HORSE POWER OR HEAT PUMP
 - HZ HERTZ
 - HVAC HEATING, VENTILATING, & AIR-CONDITIONING
 - ID INDOOR
 - KS KILL SWITCH (WATER FLOAT SWITCH)
 - LBS POUNDS
 - MBH BTU/HR X 1,000
 - MCA MIN CIRCUIT AMPACITY
 - MFA MAX FUSE AMP
 - MOCPP MAX OVERCURRENT PROTECTION
 - NIC NOT IN CONTRACT
 - OA OUTSIDE AIR
 - OAF OUTSIDE FAN
 - OC ON CENTER
 - OD OUTDOOR
 - OED OPEN END DUCT
 - PH PHASE
 - PPM PART PER MILLION
 - RA RETURN AIR
 - RAD RETURN AIR DUCT
 - RG RETURN GRILLE
 - RLA RATED LOAD AMPERES
 - RPM REVOLUTION PER MINUTES
 - RR RETURN REGISTER
 - SA SUPPLY AIR
 - SAD SUPPLY AIR DUCT
 - SP STATIC PRESSURE
 - SR SUPPLY REGISTER
 - S&R SALVAGED AND RELOCATED
 - STR SALVAGE TO RELOCATE
 - TEL TOTAL EQUIVALENT LENGTH
 - TYP TYPICAL
 - UC UNDERCUT
 - V VOLTS
 - VCD VOLUME CONTROL DAMPER
 - VTR VENT THRU ROOF
 - WB WET BULB
 - WC WATER COLUMN
 - W/ WITH

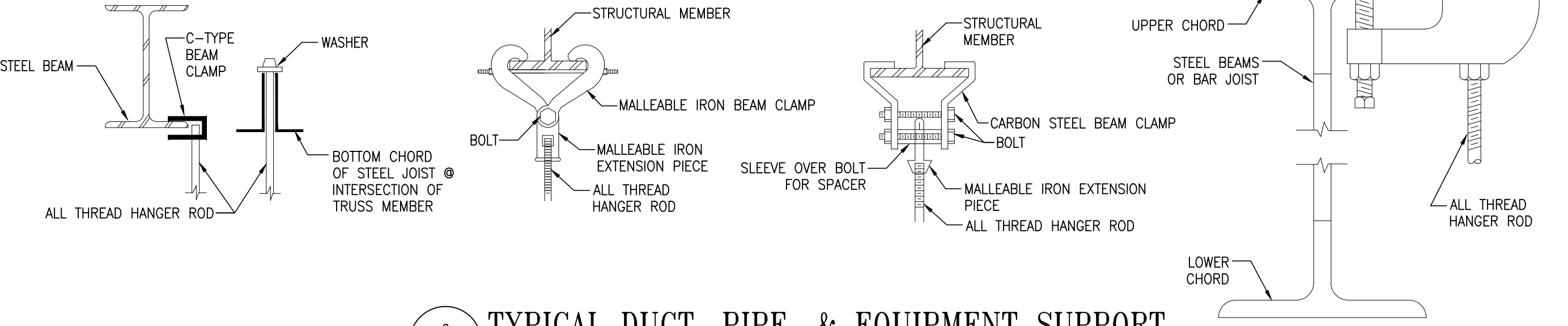
AIR DEVICES SCHEDULE
BASIS OF DESIGN: "TITUS"

TAG	FACE SIZE (IN)	NECK SIZE (IN)	FUNCTION	CFM RANGE	MAX VELOCITY (FPM)	MAX PRESSURE LOSS (IN WC)	THROW (FT)	MAX NC (dB)	"TITUS" MODEL	REMARKS
ER-1	8x6	6x4	EXHAUST	50 ≤	425	0.02	-	-	350ZFL	1

REMARKS:
1. ALUMINUM, 0.75" SPACING, 0" FIXED DEFLECTION, BLADES PARALLEL TO LONG DIMENSION. OPPOSED BLADE DAMPER.



1 TYPICAL BRANCH TAKE-OFF DETAIL
SCALE: NO SCALE



2 TYPICAL DUCT, PIPE, & EQUIPMENT SUPPORT
SCALE: NO SCALE

INTERNATIONAL GREEN CONSTRUCTION CODE (IGCC)

- INDOOR ENVIRONMENTAL QUALITY AND COMFORT REQUIREMENTS:
- SECTION 803 HVAC SYSTEMS
- 803.1 CONSTRUCTION PHASE REQUIREMENTS
- THE VENTILATION OF BUILDINGS DURING THE CONSTRUCTION PHASE SHALL BE IN ACCORDANCE WITH SECTIONS 803.1.1 THROUGH 803.1.3.
- 803.1.1 DUCT OPENINGS
- DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR SHALL BE CLOSED BY AN APPROVED METHOD TO REDUCE THE AMOUNT OF DUST AND DEBRIS THAT COLLECTS IN THE SYSTEM FROM THE TIME OF ROUGH-IN INSTALLATION AND UNTIL STARTUP OF THE HEATING AND COOLING EQUIPMENT. DUST AND DEBRIS SHALL BE CLEANED FROM DUCT OPENINGS PRIOR TO SYSTEM FLUSH OUT AND BUILDING OCCUPANCY.
- 803.1.2 INDOOR AIR QUALITY DURING CONSTRUCTION
- TEMPORARY VENTILATION DURING CONSTRUCTION SHALL BE PROVIDED IN ACCORDANCE WITH SECTIONS 803.1.2.1 THROUGH 803.1.2.3.
- 803.1.2.1 VENTILATION
- VENTILATION DURING CONSTRUCTION SHALL BE ACHIEVED THROUGH OPENINGS IN THE BUILDING ENVELOPE USING ONE OR MORE OF THE FOLLOWING METHODS: NATURAL VENTILATION IN ACCORDANCE WITH THE PROVISIONS OF THE INTERNATIONAL BUILDING CODE OR THE INTERNATIONAL MECHANICAL CODE. FANS THAT PRODUCE A MINIMUM OF THREE AIR CHANGES PER HOUR. EXHAUST IN THE WORK AREA AT A RATE OF NOT LESS THAN 0.05 CFM/FT² (0.24 L/S/M²) AND NOT LESS THAN 10 PERCENT GREATER THAN THE SUPPLY AIR RATE SO AS TO MAINTAIN NEGATIVE PRESSURIZATION OF THE SPACE.
- 803.1.2.2 PROTECTION OF HVAC SYSTEM OPENINGS
- HVAC SUPPLY AND RETURN DUCT AND EQUIPMENT OPENINGS SHALL BE PROTECTED DURING DUST-PRODUCING OPERATIONS.
- 803.1.2.3 RETURN AIR FILTERS
- WHERE A FORCED AIR HVAC SYSTEM IS USED DURING CONSTRUCTION, NEW RETURN AIR FILTERS SHALL BE INSTALLED PRIOR TO SYSTEM FLUSH OUT AND BUILDING OCCUPANCY.
- 803.1.3 CONSTRUCTION PHASE DUCTLESS SYSTEM OR FILTER
- WHERE SPACES ARE CONDITIONED DURING THE CONSTRUCTION PHASE, SPACE CONDITIONING SYSTEMS SHALL BE OF THE DUCTLESS VARIETY, OR FILTERS FOR DUCTED SYSTEMS SHALL BE RATED AT MERV 8 OR HIGHER IN ACCORDANCE WITH ASHRAE 52.2. AND SYSTEM EQUIPMENT SHALL BE DESIGNED TO BE COMPATIBLE. DUCT SYSTEM DESIGN SHALL ACCOUNT FOR PRESSURE DROP ACROSS THE FILTER.



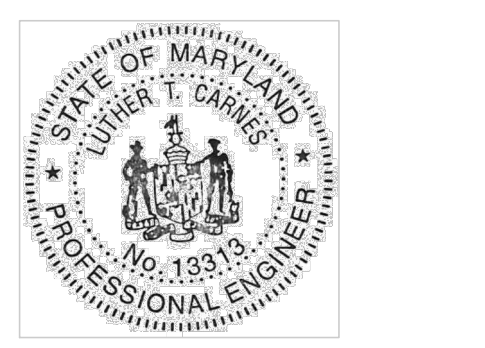
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No.	Date	Appr	Revision	Notes
1	10/26/2022			CONSTRUCTION SET
				Issue Notes

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Checked By: L.T. CARNES Date: 03/02/2024

PROJECT # 21006

COVER SHEET
HVAC

M1

M SHEET 1 OF 3

NOTE:
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CONTRACT SET 04/18/2024



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No.	Date	Issue Notes

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CERTIFY THAT THESE DOCUMENTS WERE
 PREPARED OR APPROVED BY ME, AND THAT
 I AM A DULY LICENSED PROFESSIONAL
 ENGINEER UNDER THE LAWS OF THE
 STATE OF MARYLAND
 LICENSE No. 13313
 EXPIRATION DATE: 02/01/2025.

Drawn By: TN
 Checked By: L.T. CARNES Date: 03/02/2024

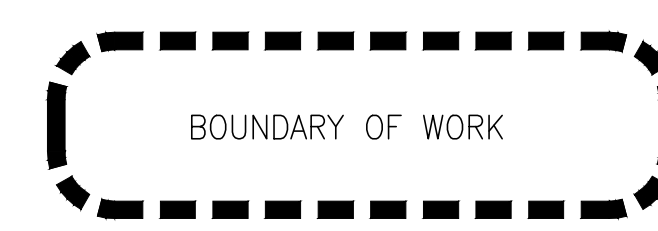
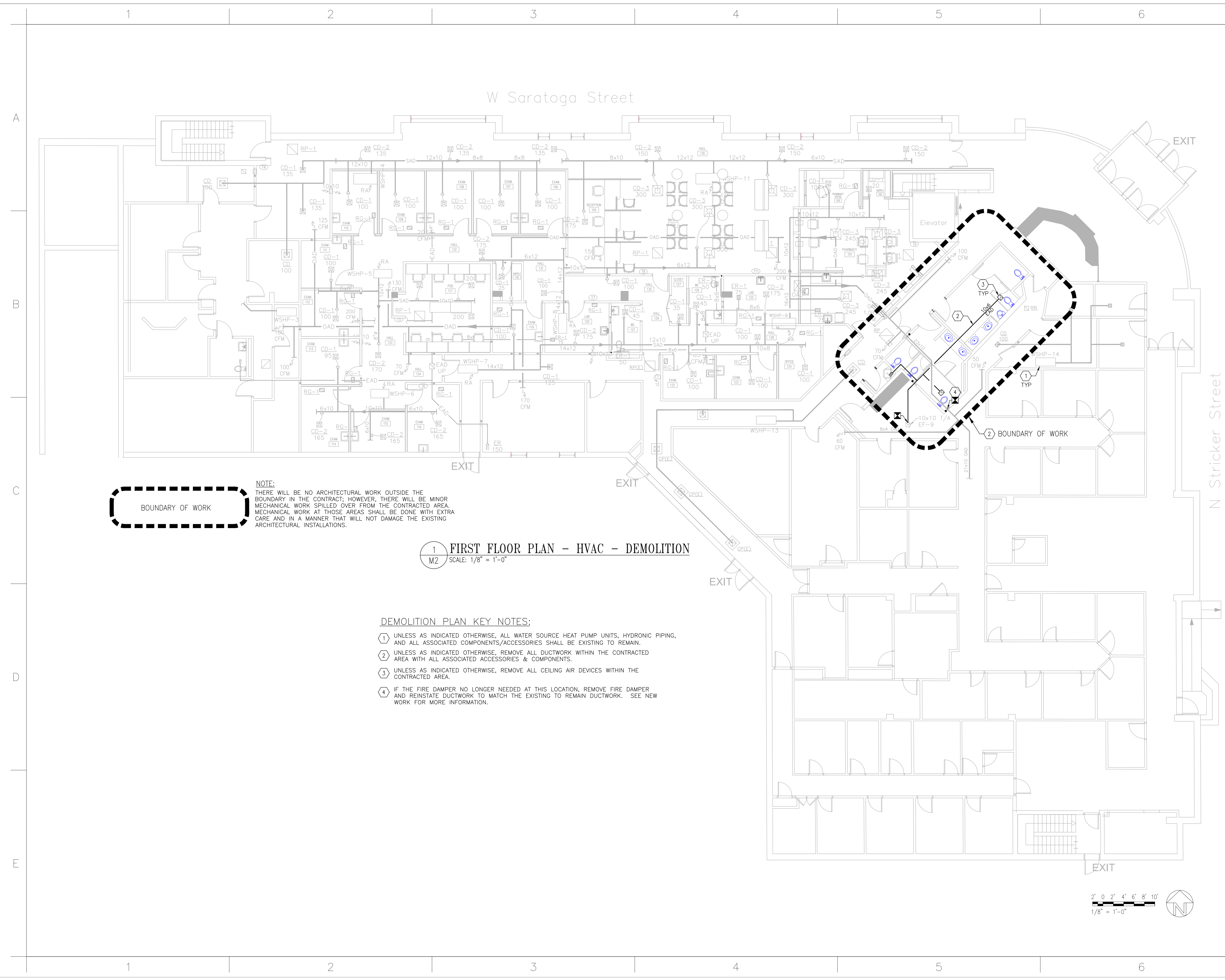
PROJECT # 21006

FIRST FLOOR PLAN
 HVAC - DEMOLITION

M2

M SHEET 2 OF 3

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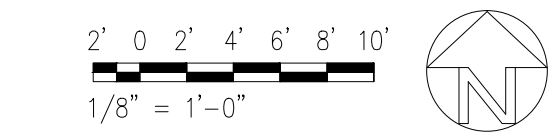


NOTE:
 THERE WILL BE NO ARCHITECTURAL WORK OUTSIDE THE
 BOUNDARY IN THE CONTRACT; HOWEVER, THERE WILL BE MINOR
 MECHANICAL WORK SPILLED OVER FROM THE CONTRACTED AREA.
 MECHANICAL WORK AT THOSE AREAS SHALL BE DONE WITH EXTRA
 CARE AND IN A MANNER THAT WILL NOT DAMAGE THE EXISTING
 ARCHITECTURAL INSTALLATIONS.

1 FIRST FLOOR PLAN - HVAC - DEMOLITION
 M2 SCALE: 1/8" = 1'-0"

DEMOLITION PLAN KEY NOTES:

- 1 UNLESS AS INDICATED OTHERWISE, ALL WATER SOURCE HEAT PUMP UNITS, HYDRONIC PIPING, AND ALL ASSOCIATED COMPONENTS/ACCESSORIES SHALL BE EXISTING TO REMAIN.
- 2 UNLESS AS INDICATED OTHERWISE, REMOVE ALL DUCTWORK WITHIN THE CONTRACTED AREA WITH ALL ASSOCIATED ACCESSORIES & COMPONENTS.
- 3 UNLESS AS INDICATED OTHERWISE, REMOVE ALL CEILING AIR DEVICES WITHIN THE CONTRACTED AREA.
- 4 IF THE FIRE DAMPER NO LONGER NEEDED AT THIS LOCATION, REMOVE FIRE DAMPER AND REINSTATE DUCTWORK TO MATCH THE EXISTING TO REMAIN DUCTWORK. SEE NEW WORK FOR MORE INFORMATION.



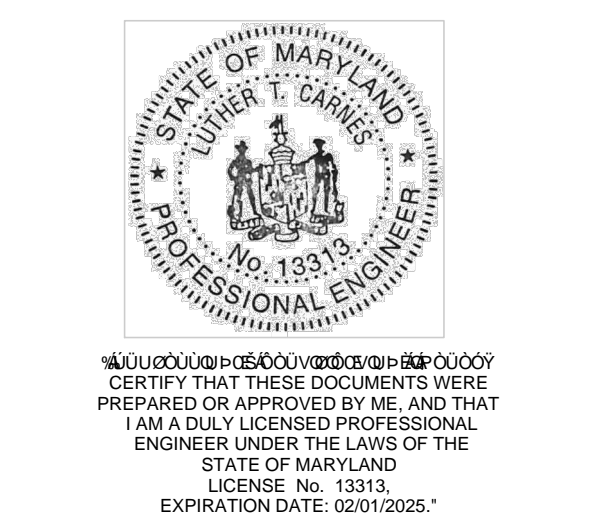


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No.	Date	Appr	Revision	Notes
3	01/09/2023		RELOCATE AIR TRANSFER	
2	11/07/2022		FIRE RATING REVISION	
1	10/26/2022		CONSTRUCTION SET	
No.	Date		Issue	Notes

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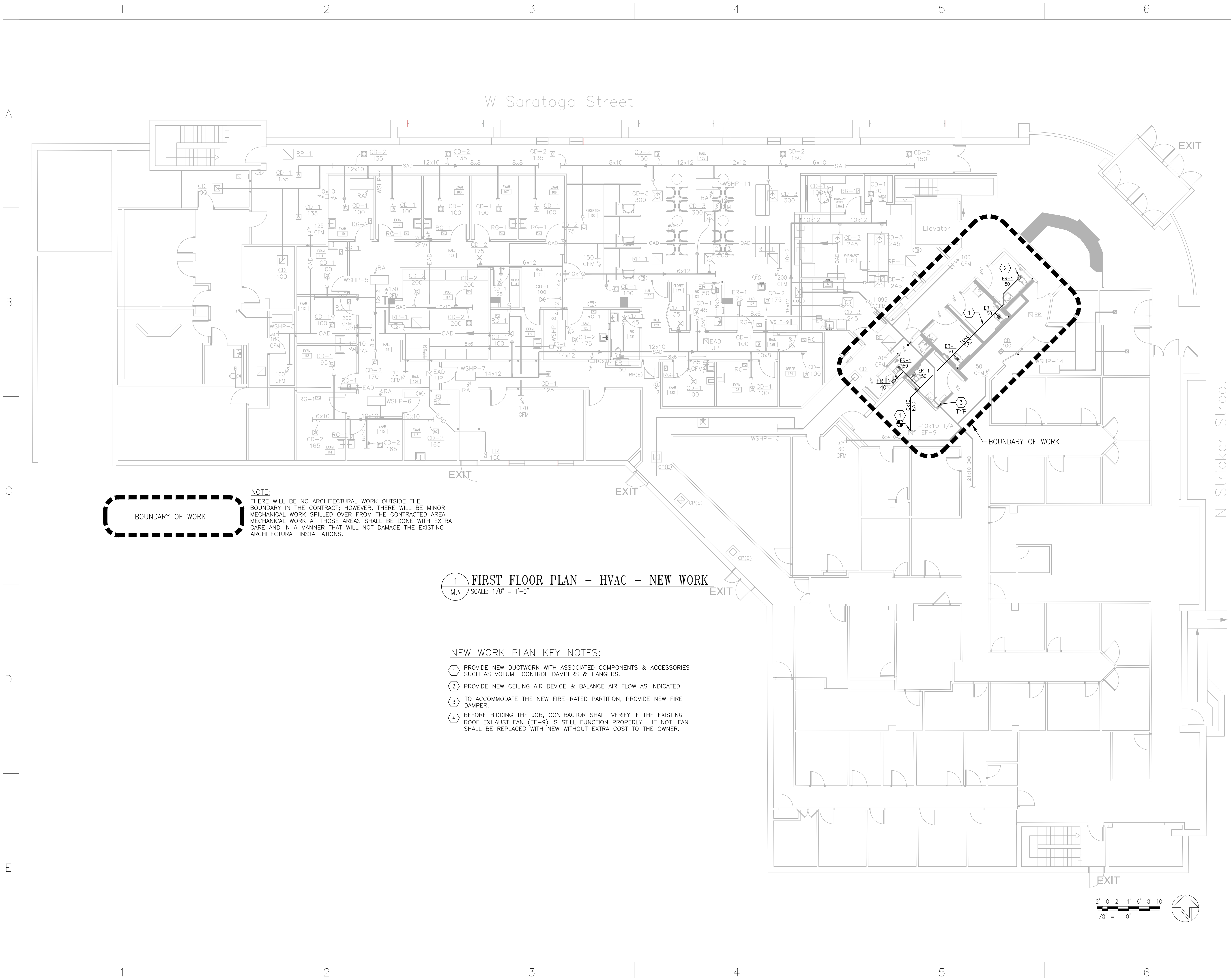
PROJECT # 21006

FIRST FLOOR PLAN
 HVAC - NEW WPRK

M3

M SHEET 3 OF 3

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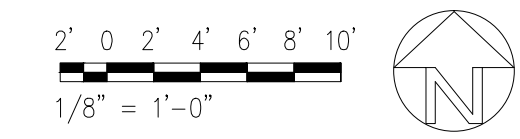


BOUNDARY OF WORK

NOTE:
 THERE WILL BE NO ARCHITECTURAL WORK OUTSIDE THE BOUNDARY IN THE CONTRACT; HOWEVER, THERE WILL BE MINOR MECHANICAL WORK SPILLED OVER FROM THE CONTRACTED AREA. MECHANICAL WORK AT THOSE AREAS SHALL BE DONE WITH EXTRA CARE AND IN A MANNER THAT WILL NOT DAMAGE THE EXISTING ARCHITECTURAL INSTALLATIONS.

1 FIRST FLOOR PLAN - HVAC - NEW WORK
 M3 SCALE: 1/8" = 1'-0"

- NEW WORK PLAN KEY NOTES:
- 1 PROVIDE NEW DUCTWORK WITH ASSOCIATED COMPONENTS & ACCESSORIES SUCH AS VOLUME CONTROL DAMPERS & HANGERS.
 - 2 PROVIDE NEW CEILING AIR DEVICE & BALANCE AIR FLOW AS INDICATED.
 - 3 TO ACCOMMODATE THE NEW FIRE-RATED PARTITION, PROVIDE NEW FIRE DAMPER.
 - 4 BEFORE BIDDING THE JOB, CONTRACTOR SHALL VERIFY IF THE EXISTING ROOF EXHAUST FAN (EF-9) IS STILL FUNCTION PROPERLY. IF NOT, FAN SHALL BE REPLACED WITH NEW WITHOUT EXTRA COST TO THE OWNER.





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1	10/26/2022			CONSTRUCTION SET
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PROJECT # 21006

COVER SHEET
 PLUMBING

P1

P SHEET 1 OF 4

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 CONTRACT SET 04/18/2024

PLUMBING FIXTURE SCHEDULE						NOTE: FOR REFERENCE. SEE ARCHITECTURAL DRAWING FOR FINAL SELECTION
TAG	DESCRIPTION	WASTE	VENT	CW	HW	REMARKS
WC1	WATER CLOSET	4"	2"	1"	-	"AMERICAN STANDARD - MADERA" BOWL: • FLOOR MOUNT ELONGATED FLUSHOMETER VALVE TOILET • VITREOUS CHINA • HIGH EFFICIENCY. OPERATES IN THE RANGE OF 1.1 GPF TO 1.6 GPF • 16-1/2" RIM HEIGHT FOR ACCESSIBLE APPLICATION • DIRECT-FED SIPHON JET ACTION • 1-1/2" INLET SPUD • LESS TOILET SEAT • MODEL 2857.111 MANUAL FLUSH VALVE: • CAN BE INSTALLED LEFT OR RIGHT HANDED • MODEL 6047.111 SEAT: • CONTOURED, EXTRA HEAVY SOLID PLASTIC WITH OPEN FRONT LESS COVER • INCLUDE STAINLESS STEEL SELF SUSTAINING CHECK HINGE FEATURE INSTALLATION: • SHALL BE ADA COMPLIANT AS SHOWN IN ARCHITECTURAL DRAWINGS.
LAV1	LAVATORY	1-1/2"	1-1/2"	1/2"	1/2"	"AMERICAN STANDARD DECORUM" • VITREOUS CHINA, WALL-HUNG • 20" (LENGTH) x 18-1/4" (WIDTH) x 5" (DEPTH), RECTANGULAR • MODEL 9024.004EC "AMERICAN STANDARD MONTERREY" FAUCET • VANDAL-RESISTANT 6" WRIST BLADE HANDLES • GOOSENECK SWING/RIGID SPOUT • 1.5 GPM PRESSURE COMPENSATING AERATOR • MODEL 7500.160

PLUMBING GENERAL NOTES

- ALL WORK SHALL BE PERFORMED IN ACCORDANCE WITH THE LATEST EDITION OF THE INTERNATIONAL PLUMBING CODE, ALL APPLICABLE STATE CODES, LOCAL CODES, REGULATIONS, AND ORDINANCES. IN CASE OF DIFFERENCES, THE MOST STRINGENT SHALL GOVERN.
- THE PLUMBING CONTRACTOR SHALL OBTAIN A FULL SET OF PLANS AND SPECIFICATIONS FOR THIS PROJECT AND SHALL BE AWARE OF THE WORK OF ALL OTHER TRADES WHICH MAY REQUIRE COORDINATION.
- ALL PLUMBING PLANS ARE DIAGRAMMATIC IN FORM. THE CONTRACTOR SHALL FABRICATE PIPING SYSTEM BASED ON FIELD MEASUREMENTS TO ENSURE THE PROPER ROUTING AND FIT.
- UNLESS OTHERWISE NOTED ON PLANS, ALL PIPING SHALL BE INSTALLED AS HIGH AS POSSIBLE, ABOVE CEILING OR TO THE UNDERSIDE OF THE STRUCTURE.
- DO NOT PLACE WATER PIPING IN WALL CAVITIES SUBJECT TO FREEZING.
- VERIFY SIZES, LOCATIONS, AVAILABLE INVERTS, AND ELEVATIONS PRIOR TO RUNNING ANY PIPING.
- A DIELECTRIC UNION SHALL BE USED TO JOIN ANY DISSIMILAR MATERIALS.
- PROVIDE ALL OPEN SITE DRAINS AND FLOOR DRAINS WITH TRAP PRIMERS UNLESS INDICATED OTHERWISE.
- CONTRACTOR SHALL PROVIDE: FAUCETS, STOPS, GATE VALVES, WATER HAMMER ARRESTORS, CLEANOUT COVERS AND INDIRECT WASTE TO AN APPROVED RECEPTOR AND ALL NECESSARY TRIM FOR A COMPLETELY CONNECTED PLUMBING SYSTEM.
- IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES AND SHALL PROVIDE ALL REQUIRED OFFSETS IN PIPING TO ACCOMPLISH THE WORK AT NO ADDITIONAL COST TO THE OWNER.
- PROVIDE OPENINGS IN BUILDING CONSTRUCTION FOR PASSAGE OF PIPING. DO NOT CUT BEAMS AND STUDS WITHOUT WRITTEN APPROVAL OF THE APPROVED AND ALLOWED METHODS PROVIDED IN WRITING BY THE PROJECT STRUCTURAL ENGINEER.
- ALL PIPING ABOVE GRADE SHALL BE PROPERLY SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING TILES OR CEILING STRUCTURE.
- PROVIDE VENTS AT HIGH POINTS IN PIPING SYSTEM AND DRAIN VALVES AT LOW POINTS.
- SLOPE ALL STORM AND SANITARY PIPING 3" & LARGER AT A MINIMUM SLOPE OF 1%, ALL SANITARY PIPING 2-1/2" & SMALLER SHALL BE SLOPED AT A MINIMUM OF 2% UNLESS NOTED OTHERWISE.
- MAKE PROPER WASTE, VENT, HOT WATER, AND COLD WATER CONNECTIONS TO ALL FIXTURES AND EQUIPMENT, EVEN THOUGH ALL BRANCH MAINS, ELBOWS, AND CONNECTIONS ARE NOT SHOWN.
- ALL PIPE PENETRATIONS AND HOLES THROUGH RATED FLOOR SHALL BE SEALED BOTH FOR FIRE AND WATER LEAKAGE.
- IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE ACCESS DOORS AND ACCESS CLEARANCE FOR EASILY ACCESSING ALL EQUIPMENT AND ACCESSORIES SUCH AS VALVES, WHICH REQUIRES INSPECTION, ADJUSTMENT, AND MAINTENANCE. COORDINATE WITH ARCHITECTURAL CONTRACTOR FOR SIZE AND APPROPRIATE LOCATION OF ACCESS PANELS AT NONREMOVABLE CEILING.
- ALL SANITARY, VENT, & WATER PIPING SHALL BE TESTED BEFORE BEING CONCEALED IN ANYWAY. ALL JOINTS SHALL BE MADE DRIP TIGHT BEFORE BEING CONCEALED.
- ALL NEW EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH UNIT MANUFACTURER'S RECOMMENDATIONS.
- NO WORK SHALL BE INSTALLED IN VIOLATION OF ANY GOVERNING CODES. ANY WORK SHOWN ON THE DRAWINGS WHICH IS IN VIOLATION OF SUCH CODES SHALL BE BROUGHT TO THE ATTENTION OF THE CONSTRUCTION MANAGER AND THE OWNER'S REPRESENTATIVE AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK INVOLVED.
- GUARANTEE ALL PARTS & LABOR FOR ONE YEAR FROM DATE OF FINAL ACCEPTANCE.
- CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS AND PAY ALL FEES RELATIVE TO THE INSTALLATION OF HIS WORK. CONTRACTOR SHALL ARRANGE FOR ALL REQUIRED INSPECTIONS BY THE APPROPRIATE AUTHORITIES.
- ALL PLUMBING EQUIPMENT, PIPING, INSULATION, ETC. INSTALLED IN HVAC PLENUM SPACES SHALL MEET CODE REQUIREMENTS FOR SMOKE AND COMBUSTIBILITY.
- DURING THE PROGRESS OF THE WORK, MAINTAIN AN ACCURATE RECORD OF ALL CHANGES MADE IN THE PLUMBING SYSTEMS. THE RECORD DRAWING SHALL SHOW CHANGES IN MANUFACTURER (WITH NUMBERS AND NAMES), MATERIALS, SIZES, LOCATING AND HOOK-UP POINTS AS-BUILT SHALL BE GIVEN TO OWNER'S CONSTRUCTION MANAGER AT COMPLETION OF JOB.
- UPON COMPLETION OF JOB, THIS CONTRACTOR SHALL INSPECT ALL EXPOSED PORTIONS OF THE PLUMBING INSTALLATION AND COMPLETELY REMOVE ALL EXPOSED LABELS, SOIL, MARKING AND FOREIGN MATERIAL EXCEPT PRODUCT LABELS AND THOSE REQUIRED BY LAW.
- TESTING OF WATER PIPING SYSTEM: THE ENTIRE SYSTEM SHALL BE TESTED HYDROSTATICALLY NOT LESS THAN THE WORKING PRESSURE OF THE SYSTEM.
- ALL DWV (DRAINAGE, WASTE, & VENT) PIPING SHALL BE TESTED BY THE CONTRACTOR. THE ENTIRE NEW DRAINAGE SYSTEM AND VENTING SYSTEMS SHALL HAVE ALL NECESSARY OPENINGS PLUGGED AND FILLED WITH WATER TO THE LEVEL OF 10 FEET ABOVE THE MAIN OR BRANCH BEING TESTED. THE SYSTEM SHALL HOLD THIS WATER FOR AT LEAST 15 MINUTES.
- BEFORE ANY USE OF NEW SYSTEMS, IT SHALL BE STERILIZED BY SLOWLY FILLING WITH WATER TO WHICH A STERILIZING AGENT HAS BEEN APPLIED, AT A RATE GIVING 50 PPM OF CHLORINE, AS DETERMINED BY RESIDUAL CHLORINE TEST AT EXTREMITIES OF THE LINE. AFTER LINES HAVE BEEN FILLED FOR A PERIOD OF THREE (3) HOURS, TESTS FOR RESIDUAL CHLORINE SHALL SHOW NOT LESS THAN 50 PPM. IF LESS THAN 50 PPM IS INDICATED, DRAIN OR FLUSH OUT THE LINE AND REPEAT STERILIZING TREATMENT UNTIL TESTS INDICATE AT LEAST 50 PPM OF RESIDUAL CHLORINE AFTER THREE (3) HOURS. THE LINES SHALL BE FLUSHED UNTIL ALL TRACES OF CHEMICAL HAVE BEEN REMOVED.
- INSULATE ALL HOT, COLD, HOT WATER RE-CIRCULATING, ROOF DRAIN, & STORM DRAIN PIPING WITH R-4 (0.27 CONDUCTIVITY) MINERAL OR GLASS FIBER PREFORMED PIPE INSULATION WITH VAPOR BARRIER AND ASJ (ALL SERVICE JACKET). ALTERNATE METHOD MAY SUBSTITUTE MINIMUM R-3 FLEXIBLE ELASTOMERIC CLOSED-CELL PIPE INSULATION WITH SELF SEALING LAP.
- PIPING MATERIALS:
 - ABOVEGROUND, DRAINAGE, WASTE & VENT PIPING USE HUBLESS CAST IRON WITH HEAVY-DUTY STAINLESS COUPLINGS.
 - UNDERGROUND, SOIL, WASTE, & VENT USE HUBLESS CAST IRON WITH HEAVY-DUTY STAINLESS COUPLINGS FOR 1.5" PIPING. USE SERVICE CLASS CAST IRON, GASKETS, AND GASKETED JOINTS FOR 2" TO 6" PIPING.
 - DOMESTIC WATER PIPING FOR ALL SIZES USE HARD COPPER TUBE, TYPE L, COPPER PRESSURE FITTINGS AND SOLDERED JOINTS.

ABBREVIATIONS

- ⊙ AUTOMATIC AIR VENT
- AAV ABOVE
- AC ABOVE CEILING
- A/C AIR CONDITIONING
- AD AREA DRAIN
- ADA AMERICANS WITH DISABILITIES ACT
- AF ABOVE FINISHED FLOOR
- AG ABOVE GROUND
- AP ACCESS PANEL
- CFH CUBIC FEET PER HOUR
- CFM CUBIC FEET PER MINUTE
- CO CLEAN OUT
- CP CIRCULATOR PUMP
- C OR CW COLD WATER
- D DRAIN / DEPTH
- DEMO DEMOLITION
- DFU DRAINAGE FIXTURE UNIT
- DIA DIAMETER
- DM DIMENSION
- DWG DRAWING
- DN DOWN
- F FAHRENHEIT
- F/ FROM
- F/A FROM ABOVE
- F/B FROM BELOW
- FD FLOOR DRAIN
- FT FOOT OR FEET
- GAL GALLON
- GPH GALLONS PER HOUR
- GPM GALLONS PER MINUTE
- H HEIGHT OR HOT WATER
- HP HORSE POWER
- HR HOUR
- HWR HOT WATER RECIRCULATION
- HW HOT WATER
- IBJ IN-BETWEEN JOISTS
- IE INVERT ELEVATION
- IN INCHES
- LAV LAVATORY
- LBS POUNDS
- MAX MAXIMUM
- MIN MINIMUM
- MS MOP SINK
- N/A NOT APPLICABLE
- NIC NOT IN CONTRACT
- PD PRESSURE DROP
- PDI PLUMBING & DRAINAGE INSTITUTE
- PH PHASE
- PRESS PRESSURE
- PRV PRESSURE REDUCING VALVE
- PSI POUNDS PER SQUARE INCH
- PSIG POUNDS PER SQUARE INCH GAUGE
- QTY QUANTITY
- RD ROOF DRAIN
- SK SINK
- SP SLUMP PUMP OR SPRINKLER PIPE
- SQ FT SQUARE FEET
- TEMP TEMPERATURE
- TP TYPICAL
- TP TRAP PRIMER
- VTR VENT THROUGH ROOF
- V VOLT / VENT
- W WATTS/WIDTH
- W/ WITH
- WC WATER GAGE / WATER CLOSET
- WT WEIGHT

PLUMBING SYMBOLS

- ⊙ CONNECT NEW TO EXISTING
- ⊗ INDICATES EXTENT OF DEMOLITION
- NEW WORK TO BE PERFORMED
- DEMOLITION WORK TO BE PERFORMED
- EXISTING TO REMAIN OR WORK BY OTHER TRADE
- CAPPED PIPE END
- PIPING TURNING UP
- ⤴ PIPING TURNING DOWN
- CHECK VALVE
- BALL VALVE
- CIRCUIT SETTER
- ISOLATION OR SHUT-OFF VALVE
USE BALL VALVE FOR 2" & SMALLER
USE GATE VALVE LARGER THAN 2"
- STRAINER W/ HOSE END CONNECTION
& CAP BLOWDOWN VALVE
- DOUBLE CHECK VALVE
BACKFLOW PREVENTER
- SERVICE GATE VALVE
- "P" TRAP
- DIRECTION OF FLOW
- PIPE WITH 1% SLOPE
IN THE DIRECTION OF FLOW
- SAN SANITARY SEWER
- SAN SANITARY SEWER (UNDERGROUND)
- V ----- VENT
- CW ----- DOMESTIC COLD WATER
- HW ----- DOMESTIC HOT WATER
- HWR ----- DOMESTIC HOT WATER RECIRCULATING
- ST — SPRINKLER PIPE
- PRESSURE RELIEF VALVE
- ⊗ FD FLOOR DRAIN
- ⊗ AD AREA DRAIN

WATER HAMMER ARRESTOR SCHEDULE		
PIPE SIZE (IN)	FIXTURE UNITS	CROSS REFERENCE PDI
1/2	1 - 11	"A"
3/4	12 - 32	"B"
1	33 - 60	"C"

REMARKS:
 1. PROVIDE WATER HAMMER ARRESTOR (ASSE 1010) AT WASHING MACHINE AND OTHER FAST CLOSING FIXTURES.
 2. PROVIDE ADEQUATELY SIZED & ACCESSIBLE PANEL FOR THE WATER HAMMER ARRESTOR OR INSTALL IN A EASILY ACCESSED SPACE.



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 LICENSE No. 13313
 EXPIRATION DATE: 02/01/2025

Drawn By: TN
 Checked By: L.T. CARNES Date: 03/02/2024

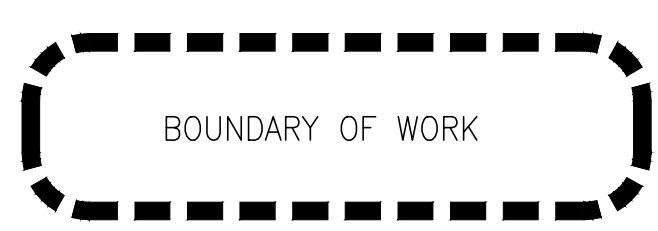
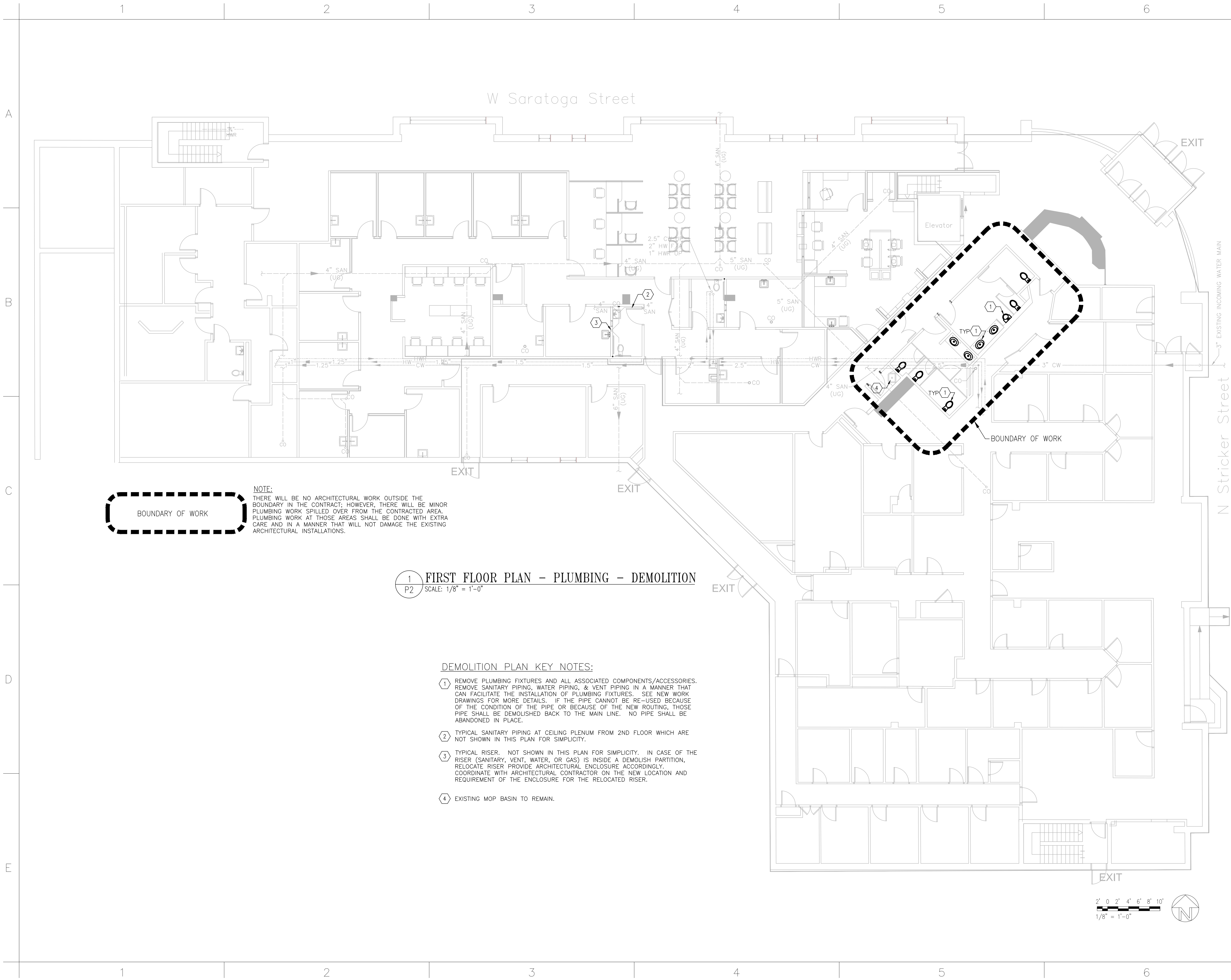
PROJECT # 21006

FIRST FLOOR PLAN
 PLUMBING - DEMOLITION

P2

P SHEET 2 OF 4

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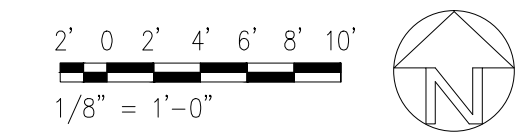


NOTE:
 THERE WILL BE NO ARCHITECTURAL WORK OUTSIDE THE BOUNDARY IN THE CONTRACT; HOWEVER, THERE WILL BE MINOR PLUMBING WORK SPILLED OVER FROM THE CONTRACTED AREA. PLUMBING WORK AT THOSE AREAS SHALL BE DONE WITH EXTRA CARE AND IN A MANNER THAT WILL NOT DAMAGE THE EXISTING ARCHITECTURAL INSTALLATIONS.

1 FIRST FLOOR PLAN - PLUMBING - DEMOLITION
 P2 SCALE: 1/8" = 1'-0"

DEMOLITION PLAN KEY NOTES:

- 1 REMOVE PLUMBING FIXTURES AND ALL ASSOCIATED COMPONENTS/ACCESSORIES. REMOVE SANITARY PIPING, WATER PIPING, & VENT PIPING IN A MANNER THAT CAN FACILITATE THE INSTALLATION OF PLUMBING FIXTURES. SEE NEW WORK DRAWINGS FOR MORE DETAILS. IF THE PIPE CANNOT BE RE-USED BECAUSE OF THE CONDITION OF THE PIPE OR BECAUSE OF THE NEW ROUTING, THOSE PIPE SHALL BE DEMOLISHED BACK TO THE MAIN LINE. NO PIPE SHALL BE ABANDONED IN PLACE.
- 2 TYPICAL SANITARY PIPING AT CEILING PLENUM FROM 2ND FLOOR WHICH ARE NOT SHOWN IN THIS PLAN FOR SIMPLICITY.
- 3 TYPICAL RISER. NOT SHOWN IN THIS PLAN FOR SIMPLICITY. IN CASE OF THE RISER (SANITARY, VENT, WATER, OR GAS) IS INSIDE A DEMOLISH PARTITION, RELOCATE RISER PROVIDE ARCHITECTURAL ENCLOSURE ACCORDINGLY. COORDINATE WITH ARCHITECTURAL CONTRACTOR ON THE NEW LOCATION AND REQUIREMENT OF THE ENCLOSURE FOR THE RELOCATED RISER.
- 4 EXISTING MOP BASIN TO REMAIN.



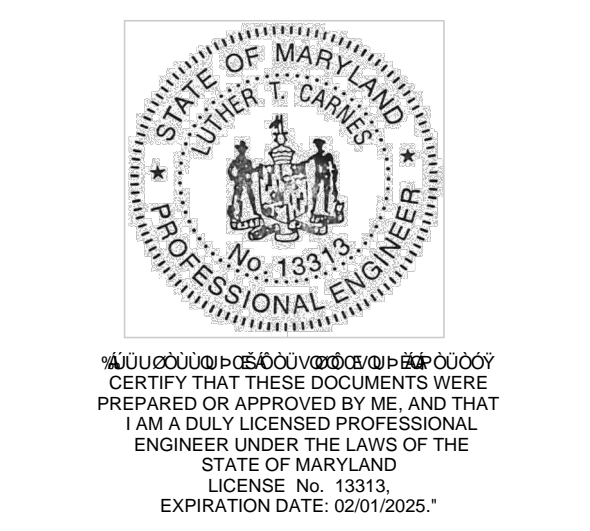


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PROJECT # 21006

FIRST FLOOR PLAN
 PLUMBING - NEW WORK

P3

P SHEET 3 OF 4

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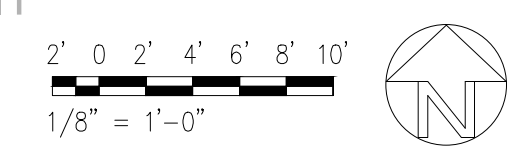
REMARKS:
 1. 6" (ETR) SANITARY MAIN BELOW SLAB SERVES 1ST FLOOR.
 2. RISERS DIAGRAMS ARE NOT PROVIDED SINCE THERE WILL BE NO INCREASE IN DFUs (DRAINAGE FIXTURE UNITS) THIS RENOVATION.
 3. TOTAL DFUs IS WAY BELOW THE MAX ALLOWABLE PER IPC TABLE 710.1(1): 700 DFUs

NOTE:
 THERE WILL BE NO ARCHITECTURAL WORK OUTSIDE THE BOUNDARY OF WORK IN THE CONTRACT; HOWEVER, THERE WILL BE MINOR PLUMBING WORK SPILLED OVER FROM THE CONTRACTED AREA. PLUMBING WORK AT THOSE AREAS SHALL BE DONE WITH EXTRA CARE AND IN A MANNER THAT WILL NOT DAMAGE THE EXISTING ARCHITECTURAL INSTALLATIONS.

1 FIRST FLOOR PLAN - PLUMBING - NEW WORK
 P3 SCALE: 1/8" = 1'-0"

NEW WORK PLAN KEY NOTES:

- SANITARY PIPING, VENT PIPING, & WATER PIPING ARE ALREADY EXISTING AT THE VICINITY. MODIFY EXISTING SANITARY PIPING, VENT PIPING, & WATER PIPING TO ACCOMMODATE THE NEW WATER CLOSETS & LAVATORIES. ALL ASSOCIATED COMPONENTS & ACCESSORIES SHALL BE NEW SUCH AS WATER HAMMER ARRESTORS & SHUT-OFF VALVES, ETC.
- SANITARY PIPING, VENT PIPING, & WATER PIPING ARE ALREADY EXISTING AT THE VICINITY. MODIFY EXISTING SANITARY PIPING, VENT PIPING, & WATER PIPING TO ACCOMMODATE THE NEW LAVATORY. ALL ASSOCIATED COMPONENTS & ACCESSORIES SHALL BE NEW SUCH AS PIPING & SHUT-OFF VALVES, ETC. WATER SUPPLY & DRAIN PIPES UNDER LAVATORY SHALL BE ENCLOSED WITH "LAV SHIELD" AS SHOWN IN ARCHITECTURAL DRAWING TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER LAVATORIES.
- TYPICAL SANITARY PIPING AT CEILING PLENUM FROM 2ND FLOOR WHICH ARE NOT SHOWN IN THIS PLAN FOR SIMPLICITY.
- TYPICAL RISER. NOT SHOWN IN THIS PLAN FOR SIMPLICITY. IN CASE OF THE RISER (SANITARY, VENT, WATER, OR GAS) IS INSIDE A DEMOLISH PARTITION, RELOCATE RISER OR PROVIDE ARCHITECTURAL ENCLOSURE ACCORDINGLY. COORDINATE WITH ARCHITECTURAL CONTRACTOR ON THE NEW LOCATION AND REQUIREMENT OF THE ENCLOSURE FOR THE RELOCATED RISER.
- IN THE PROCESS OF MODIFYING THE EXISTING SANITARY PIPING LAYOUT TO ACCOMMODATE THE NEW PLUMBING FIXTURES, EXISTING CLEANOUTS WILL BE REMOVED OR MAY NEED TO BE RELOCATED. CONTRACTOR SHALL PROVIDE SUFFICIENT NEW CLEANOUTS TO RUN DRAIN AUGER OR SNAKE INTO THE HARD-TO-REACH PLACES IN THE PLUMBING SYSTEM TO CLEAR CLOGS.





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DETAILS
 PLUMBING

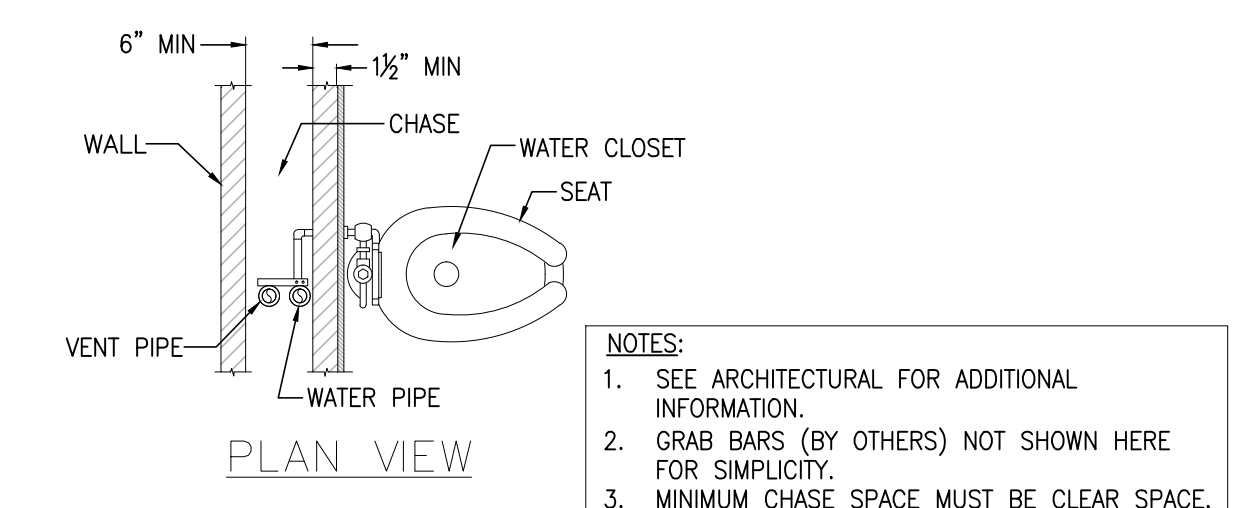
P4

P SHEET 4 OF 4

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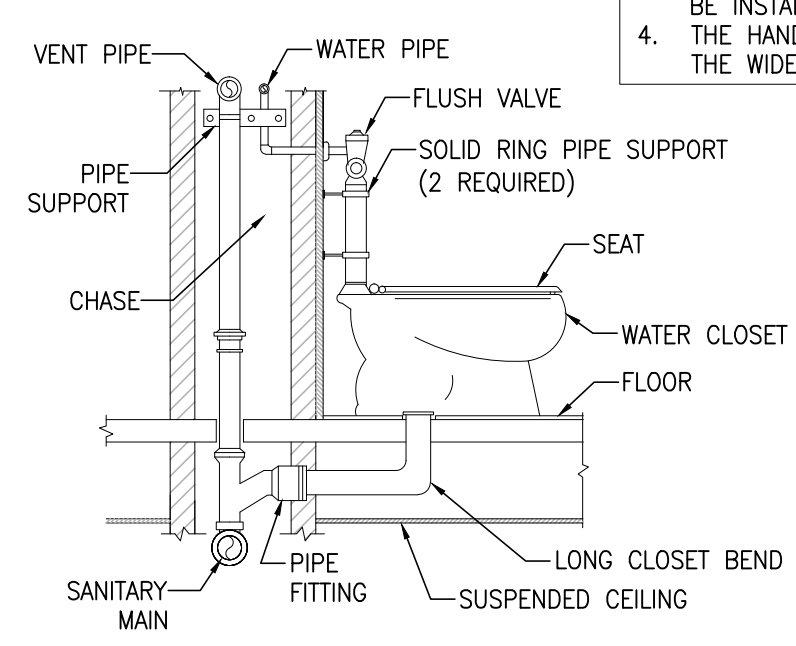
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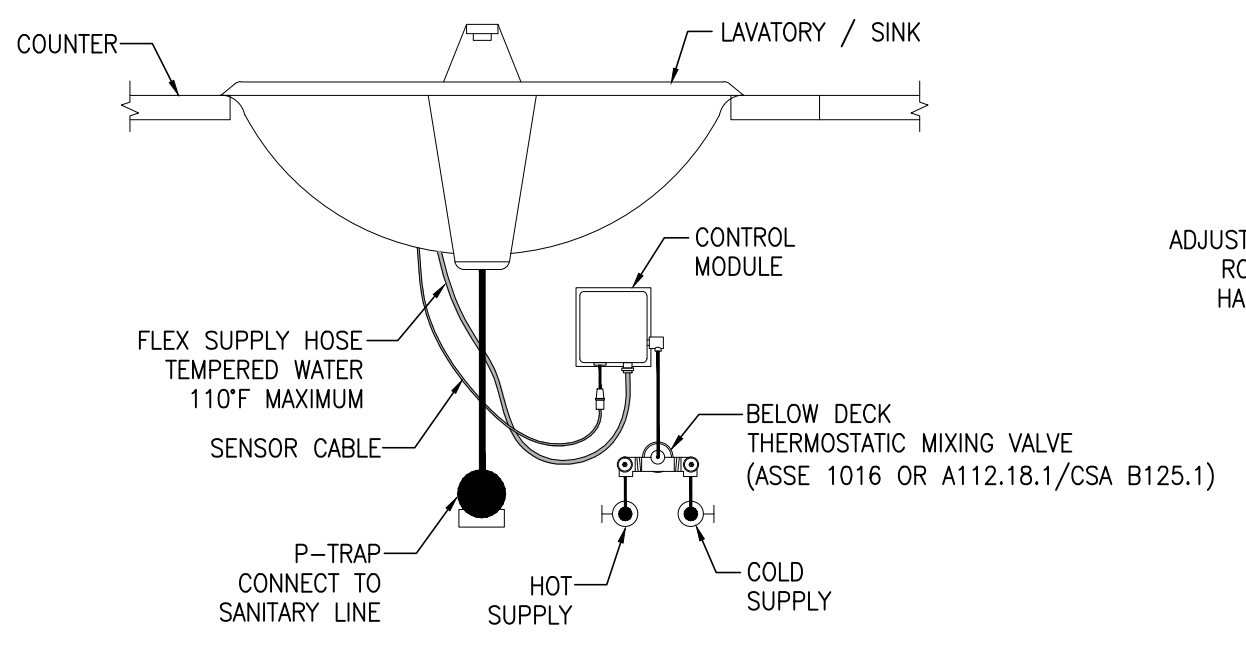
PLAN VIEW

- NOTES:
 1. SEE ARCHITECTURAL FOR ADDITIONAL INFORMATION.
 2. GRAB BARS (BY OTHERS) NOT SHOWN HERE FOR SIMPLICITY.
 3. MINIMUM CHASE SPACE MUST BE CLEAR SPACE. NO STEEL STUDS OR OTHER IMPEDIMENTS CAN BE INSTALLED IN THIS SPACE.
 4. THE HANDLE OF THE FLUSH VALVE SHALL FACE THE WIDE SIDE OF THE STALL.



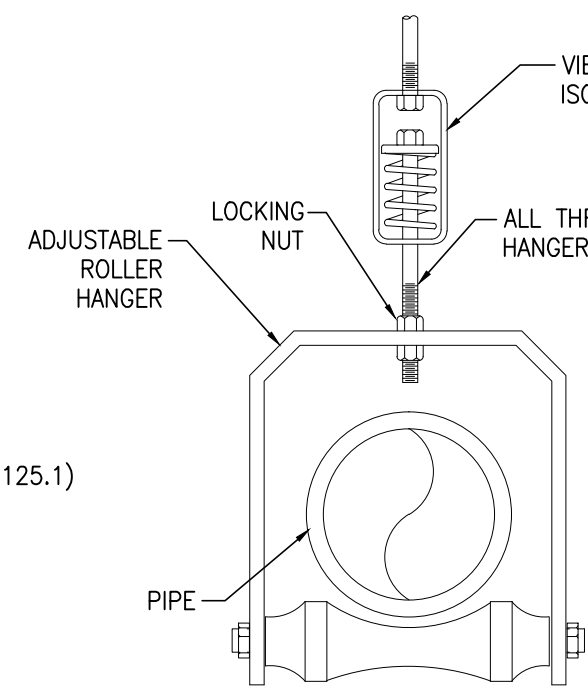
ELEVATION

1 SINGLE FLOOR MOUNTED WATER CLOSET DETAIL
 P4 SCALE: NO SCALE

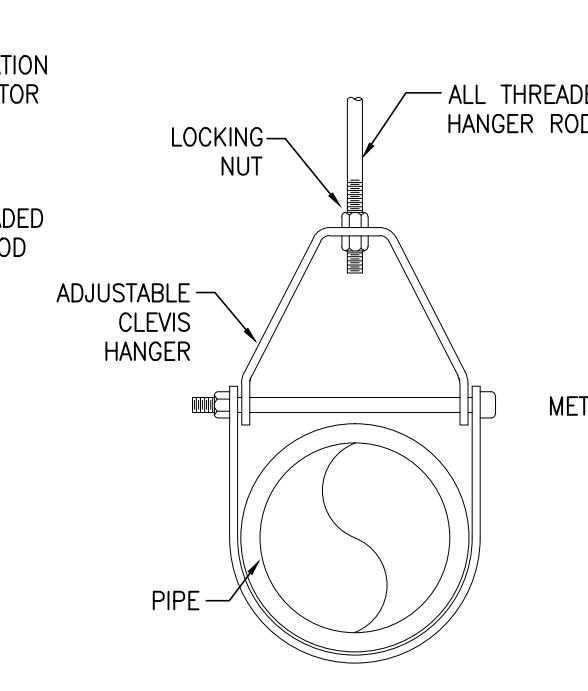


- NOTES:
 1. SEE MANUFACTURER'S WRITTEN INSTALLATION MANUAL FOR ADDITIONAL INFORMATION.

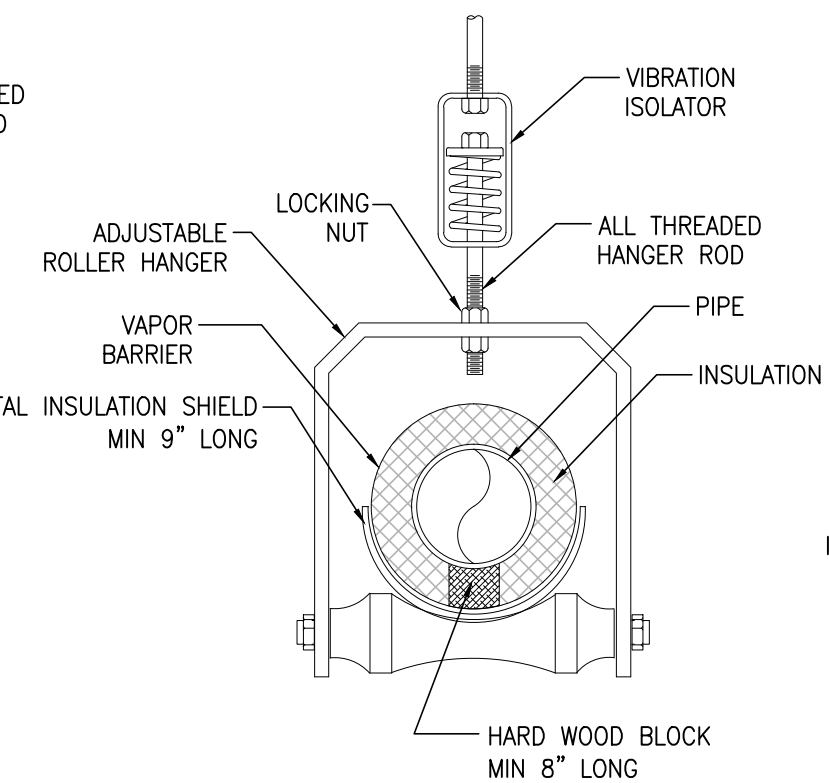
2 LOCAL MIXING VALVE DETAIL
 P4 SCALE: NO SCALE



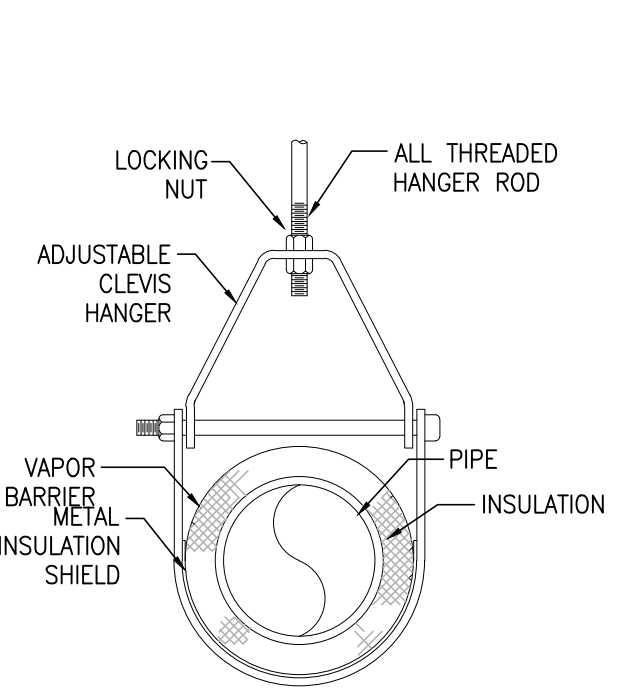
FOR BARE PIPE
 2" & LARGER



FOR BARE PIPE
 LESS THAN 2"

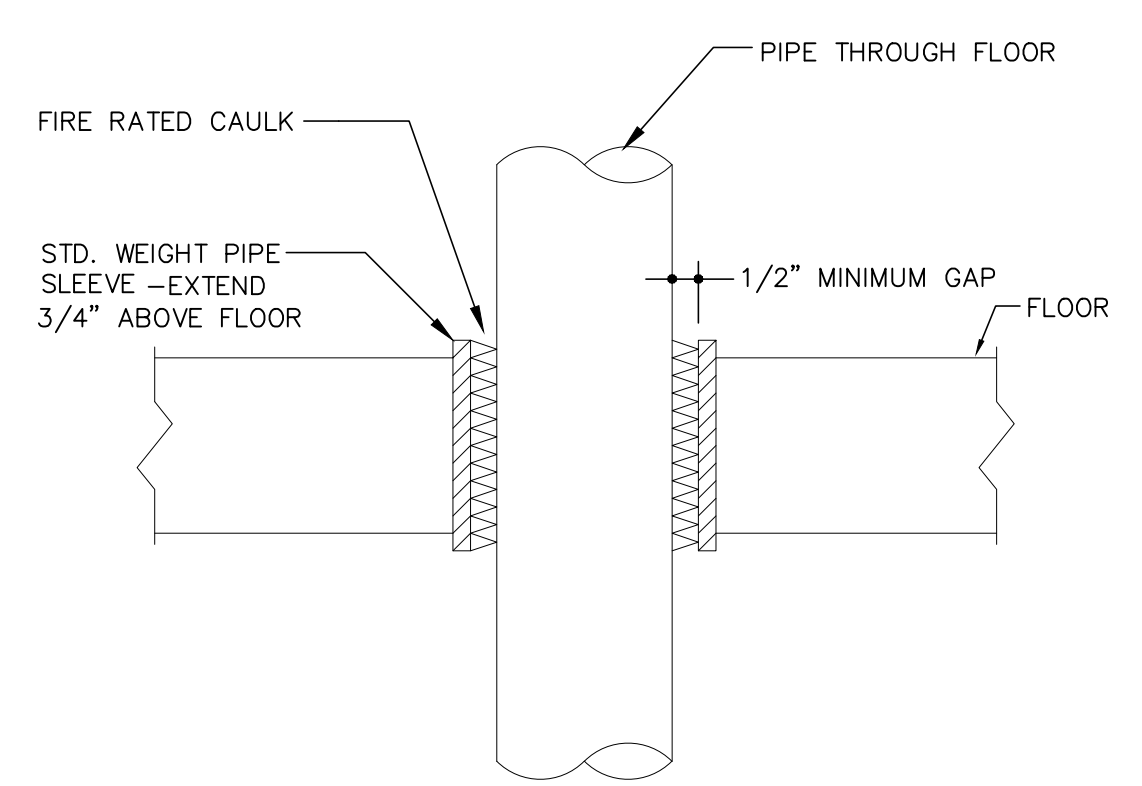


FOR INSULATED PIPE
 2" & LARGER

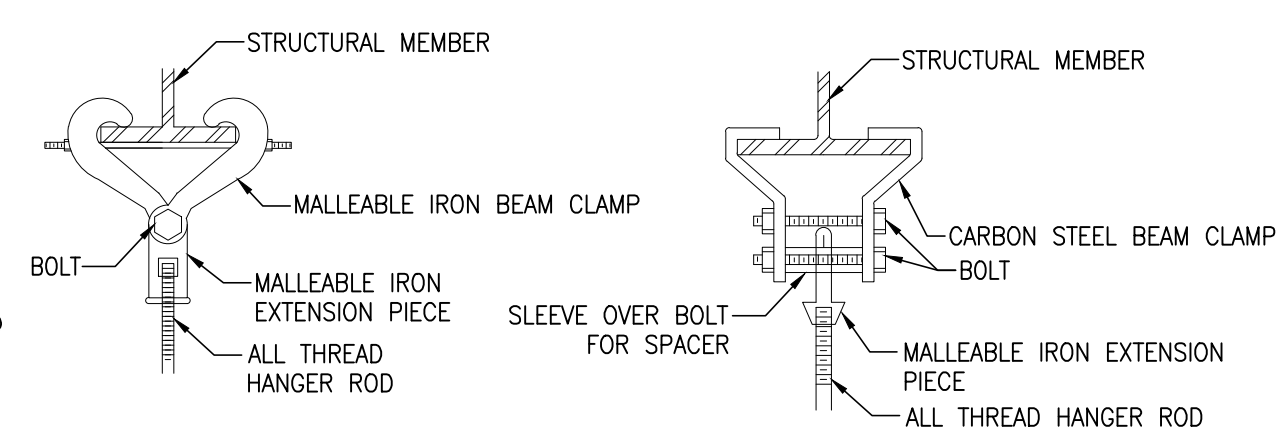
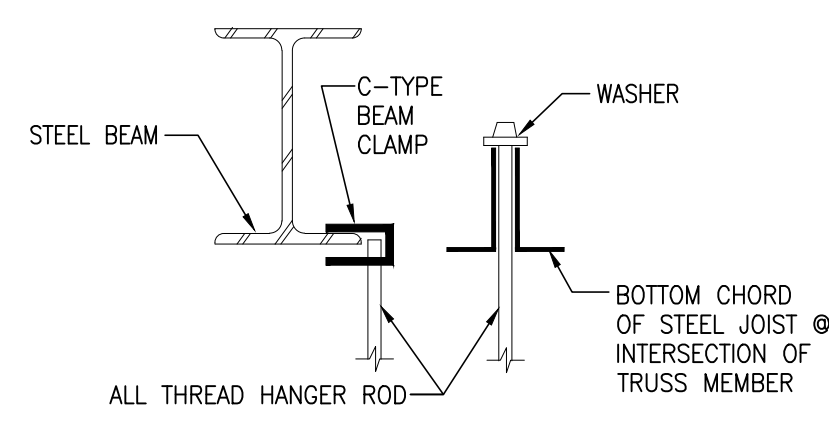


FOR INSULATED PIPE
 LESS THAN 2"

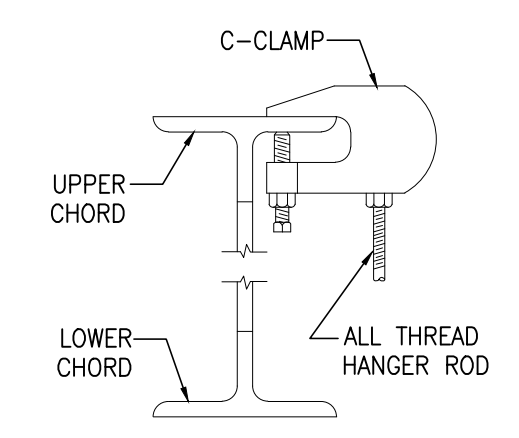
3 TYPICAL PIPE HANGER DETAIL
 P4 SCALE: NO SCALE



4 TYPICAL PIPE SLEEVE THRU FLOOR DETAIL
 P4 SCALE: NO SCALE



5 TYPICAL PIPE SUPPORT
 P4 SCALE: NO SCALE



C

D

E

1 2 3 4 5 6

ELECTRICAL SPECIFICATIONS

1. GENERAL
A. THESE DRAWINGS ARE SCHEMATIC AND INTENDED TO DEPICT THE GENERAL LOCATION OF ELECTRICAL SYSTEM COMPONENTS. CONSULT ARCHITECTURAL PLANS FOR FINAL DIMENSIONS AND LOCATION OF FIXTURES, DEVICES AND EQUIPMENT.

B. THE INSTALLATION OF ALL ELECTRICAL WORK SHALL BE IN ACCORDANCE WITH ALL CODES AND AUTHORITIES HAVING JURISDICTION INCLUDING, BUT NOT LIMITED TO, THE FOLLOWING:

- 1) THE LATEST VERSION OF N.E.C., AND LOCAL N.E.C. AMENDMENTS.
2) ALL LOCAL CODES.
3) NFPA 72E AND
4) THE LATEST VERSION OF THE LOCALLY RECOGNIZED BUILDING CODE.
5) THE AMERICANS WITH DISABILITIES ACT (ADA).

C. ADVANCE NOTICE SHALL BE GIVEN TO OWNER BEFORE COMMENCEMENT OF WORK ON ANY ELECTRICAL CIRCUITRY, WHETHER OR NOT AN OUTAGE IS REQUIRED.

D. UNLESS SPECIFICALLY NOTED ON THE PLANS, ALL CIRCUITRY, EQUIPMENT, DEVICES, ETC., NOT NOTED AS EXISTING TO REMAIN OR TO BE RELOCATED, SHALL BE NEW. THE CONTRACTOR MAY REUSE ALL EXISTING CONDUCTORS, EMT, POWER/LIGHTING CIRCUITRY, GRID, ETC., AS FIELD CONDITIONS PERMIT. ALL CIRCUITS THAT ARE TO REMAIN IN SERVICE UPON COMPLETION OF THIS PROJECT MUST BE CONTINUED IN SERVICE. OUTAGES ON EXISTING CIRCUITS TO REMAIN SHALL BE COORDINATED WITH THE OWNER.

E. THE CONTRACTOR SHALL REMOVE ALL ABANDONED OR UNUSED POWER, LIGHTING, CLASS I, II & III CABLING, FIRE ALARM, COMMUNICATIONS, RADIO, TV & CATV CABLING ALONG WITH ALL ASSOCIATED RACEWAYS, HANGERS, CABLE TRAYS AND APPURTENANCES WITHIN THE LIMIT OF THE AREA OF WORK IN ACCORDANCE WITH N.E.C. SYSTEM-RELATED REFERENCES.

F. ALL EQUIPMENT AND DEVICES OUTSIDE SHALL BE LOCKABLE NEMA 3R TYPE.

G. CONTRACTOR SHALL SUBMIT SHOP DRAWINGS FOR ALL EQUIPMENT DEVICES AND OTHER ASSOCIATED APPURTENANCES TO BE PROVIDED FOR THIS PROJECT INCLUDED BUT NOT LIMITED TO:

- 1) LIGHT FIXTURES
2) SWITCHES, PLUGS AND RECEPTACLES
3) PANEL BOARDS
4) LAYOUT DRAWINGS
5) DEVICE PLATES
6) DISCONNECT SWITCHES

2. RACEWAY, BOXES AND CONDUIT

A. OUTDOOR WIRING - USE THE FOLLOWING WIRING METHODS:

- 1) RIGID ALUMINUM METAL CONDUIT WITH WATERPROOF COMPRESSION COUPLING WITH INSULATED THROAT
2) ALUMINUM BOXES AND ENCLOSURES: NEMA TYPE 3R
3) CONNECTION TO VIBRATING EQUIPMENT: LIQUID TIGHT FLEXIBLE METAL CONDUIT.

B. UNDERGROUND DUCTBANK - SHALL CONFORM TO THE APPROPRIATE DESIGN AND INSTALLATION STANDARDS OF THE UTILITY COMPANY.

C. INDOOR WIRING - USE THE FOLLOWING WIRING METHODS:

- 1) ELECTRICAL METALLIC TUBING WITH COMPRESSION COUPLING WITH INSULATED THROAT, UNLESS SPECIFICALLY NOTED OTHERWISE.
2) CONNECTION TO VIBRATING EQUIPMENT: FLEXIBLE METAL CONDUIT
3) BOXES AND ENCLOSURES: NEMA TYPE 1
4) FIRE ALARM CONDUIT AND BOXES SHALL BE PAINTED RED.

C. ALL CIRCUITRY SHALL BE RUN CONCEALED IN FINISHED AREAS.

1. EMT CONDUCTORS AND COUPLINGS SHALL BE OF THE ALL-STEEL, COMPRESSION OR SET SCREW TYPE WITH INSULATED THROAT.

D. ALL CIRCUITRY RUNS INDICATED ARE DIAGRAMMATIC. THE CONTRACTOR SHALL DETERMINE IN THE FIELD THE MOST SUITABLE ROUTES. THE CONTRACTOR SHALL PROVIDE "AS-BUILT" DOCUMENTATION OF ALL CIRCUITRY RUNS.

E. LOW VOLTAGE WIRING SHALL BE INSTALLED IN RACEWAY, UNLESS OTHERWISE NOTED.

F. OUTLET BOXES SHALL BE A MINIMUM OF 4" SQUARE WITH THE APPROPRIATE PLASTER RING OR TILE COVER.

G. ALL EMPTY RACEWAYS SHALL CONTAIN A DRAG WIRE.

H. MINIMUM SIZE EMT SHALL BE 3/4".

3. WIRE AND CABLE

A. ALL CONDUCTORS SHALL BE COPPER, MINIMUM #12 WITH 600 VOLT TYPE "THHN-THWN" INSULATION ROUTED IN CONDUIT. CONDUCTORS #10 AND LARGER SHALL BE STRANDED.

B. EMT SHALL BE USED IN THE CEILING PLENUM SPACES. METAL-CLAD (MC) MAY BE USED FOR INTERIOR BRANCH CONVENIENCE CIRCUITS WHERE CONCEALED IN THE WALLS. AC OR HCF CABLE SHALL NOT BE USED IN MECHANICAL ROOMS, ELECTRICAL ROOMS, TELEPHONE ROOMS AND OTHER SERVICE AREAS OR WHERE VISIBLE.

C. HOMERUNS WITHOUT BRANCH CIRCUIT BREAKER INFORMATION SHALL BE CONNECTED TO A NEW 1P/20 AMP CIRCUIT BREAKER. WHERE CONDUIT SIZE AND NUMBER WIRES AND THEIR SIZE IS NOT GIVEN, THE FOLLOWING SHALL APPLY:

- 1) LIGHTING CIRCUITS:
a) ONE BRANCH CIRCUIT - (1) #12 & 1#12 NEUTRAL IN 3/4" CONDUIT

- b) TWO BRANCH CIRCUITS - (2) #12 & 1#12 NEUTRAL IN 3/4" CONDUIT
c) THREE BRANCH CIRCUIT - (3) #12 & 1#12 NEUTRAL IN 3/4" CONDUIT

- 2) POWER CIRCUITS:
a) ONE BRANCH CIRCUIT - (1) #12 & (1) #12 NEUTRAL & (1) #12 GROUND IN 3/4" CONDUIT
b) TWO BRANCH CIRCUITS - (2) #12 & (1) #10 NEUTRAL & (1) #12 GROUND IN 3/4" CONDUIT
c) THREE BRANCH CIRCUIT - (3) #12 & (1) #10 NEUTRAL & (1) #12 GROUND IN 3/4" CONDUIT

D. PROVIDE ALL ADDITIONAL WIRES REQUIRED FOR SWITCHING AND CONTROL FUNCTION INDICATED. REFER TO SWITCHING INDICATED ON ARCHITECTURAL DRAWINGS.

E. ALL 120 VOLT CIRCUIT HOMERUNS WHICH ARE OVER 75 LINEAR FEET SHALL BE #10 CONDUCTORS MINIMUM. CONTRACTOR SHALL INCREASE WIRE SIZE AS REQUIRED TO MAINTAIN A MAXIMUM VOLTAGE DROP OF 3%.

F. RUN MULTIPLE HOMERUNS TO ALTERNATELY NUMBERED PANEL BOARD CIRCUITS (i.e. - 1, 3, 5).

G. THE CIRCUIT NUMBERS ARE FOR IDENTIFICATION PURPOSES ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CORRECTLY PHASING/BALANCING THE CIRCUITS IN THE PANELS ON MONTH AFTER OCCUPANCY. A MAXIMUM OF THREE SINGLE PHASE CIRCUITS SHALL BE INSTALLED IN ANY CONDUIT. ON COMPLETION OF THE INSTALLATION, THE CONTRACTOR SHALL BALANCE ALL PANEL PHASES SO THAT THE MAXIMUM IMBALANCE OF PHASE LOADS IS NO MORE THAN 10% AND PROVIDE AN UPDATED PANEL SCHEDULE.

H. ALL PLENUM WIRING SHALL COMPLY WITH N.E.C. SECTION 300.22.

4. SWITCHES, RECEPTACLES & COMMUNICATIONS OUTLETS

A. THE LOCATIONS OF ALL TELEPHONE AND POWER RECEPTACLE SHALL BE VERIFIED, BEFORE INSTALLATION, BY THE ARCHITECT. THE ARCHITECT MAY, AT HIS OPTION, RELOCATE ANY DEVICE 5 FEET AT NO CHARGE TO THE OWNER.

B. WHERE TWO OR MORE DEVICES ARE SHOWN TOGETHER ON THE PLANS, A GANGED PLATE SHALL BE USED. DEVICES OF DIFFERENT VOLTAGES SHALL BE SEPARATED BY A BARRIER.

C. ALL RECEPTACLES SHOWN ON A WALL BACK TO BACK SHALL BE OFFSET A MINIMUM OF 6" HORIZONTALLY.

D. WALL PLATES SHALL BE OF A FINISH AS SELECTED BY THE ARCHITECT.

E. COORDINATE LIGHT SWITCHES SHOWN ON DRAWINGS WITH DOOR SWINGS. LOCATE LIGHT SWITCHES ON LOCK SIDE OF DOOR, UNLESS NOTED OTHERWISE ON THE ARCHITECTURAL DOCUMENTS.

F. MOUNTING HEIGHT FOR RECEPTACLES AND COMMUNICATIONS (TELEPHONE & DATA) OUTLETS SHALL BE 18", UNLESS SPECIFICALLY NOTED OTHERWISE ON THE ARCHITECTURAL DOCUMENTS.

G. MOUNTING HEIGHT FOR LIGHTING SWITCHES SHALL BE 48", UNLESS SPECIFICALLY NOTED OTHERWISE ON THE ARCHITECTURAL DOCUMENTS.

H. COORDINATE INSTALLATION AND LOCATION OF WALL MOUNTED TELEPHONE AND DATA OUTLETS ALONG WITH ASSOCIATED WIRING WITH THE COMMUNICATIONS CONTRACTOR. TELEPHONE AND DATA CONDUCTORS SHALL BE INSTALLED BY THE COMMUNICATIONS CONTRACTOR. ALL CABLING IN THE RETURN AIR PLENUM SHALL BE IN ACCORDANCE WITH N.E.C. 605.

I. THE CONTRACTOR SHALL REMOVE AND REINSTALL AND REPLACE CEILING TILES AS REQUIRED FOR THE INSTALLATION OF TELEPHONE AND DATA WIRING BY THE OWNERS CONTRACTOR/VENDORS.

J. ALL EXTERIOR RECEPTACLES SHALL BE GFCI RATED AND INSTALLED IN NEMA 3R OR BETTER ENCLOSURES.

5. LIGHTING FIXTURES

A. PROVIDE NEW FIXTURES AS SPECIFIED ON THE DRAWINGS.

B. PROVIDE EMERGENCY WHITE LIGHTS AND EXIT SIGNAGE AS REQUIRE TO MAINTAIN EGRESS LIGHTING REQUIRED BY THE N.E.C.. NEW FIXTURES SHALL BE AS SPECIFIED

C. SUPPORT ALL FIXTURES ACCORDING TO N.E.C. 410-16 AND ALL LOCAL REQUIREMENTS.

D. ALL LIGHTING FIXTURES SHALL BE INSTALLED AS COMPLETE UNITS WITH LAMPS.

E. CONTRACTOR SHALL CLEAN AND ALL FIXTURES IN THE AREA OF WORK UPON COMPLETED INSTALLATION.

6. PANELBOARDS/STARTERS/DISCONNECTS

A. ALL PANELBOARDS SHALL BE AS INDICATED IN THE PANEL SCHEDULES IN THESE DRAWINGS.

B. ALL PANEL BOARDS SHALL BE EQUIPPED WITH FULL COPPER BUSSING, 100% NEUTRAL, REMOVABLE COVER AND NAMEPLATE.

C. BEFORE ORDERING PANELBOARDS, STARTERS AND DISCONNECTS, COORDINATE ALL MOTOR CIRCUIT BREAKER SIZE AND TYPE WITH MECHANICAL AND OTHER TRADES AS TO COMPLY WITH THE EQUIPMENT MANUFACTURER'S REQUIREMENTS FOR INSTALLED EQUIPMENT.

D. ALL PANELBOARDS SHALL HAVE COMMON KEYED LOCKS. PROVIDE A MINIMUM OF TWO KEYS PER PANEL.

E. ALL PANELBOARDS, STARTERS AND DISCONNECTS SHALL BE COMPLETE WITH COVER, TRIM, BACKBOX, COPPER BUSS FOR ALL PHASES, NEUTRAL, GROUND AND CIRCUIT BREAKERS.

F. PANELBOARDS, STARTERS AND DISCONNECTS SHALL BE OF SAME MANUFACTURE AND TYPE AS EXISTING DEVICES UNLESS SPECIFICALLY APPROVED BY THE OWNER.

G. SURFACE MOUNTED PANELBOARDS, STARTERS AND DISCONNECTS SHALL BE MOUNTED ON AN APPROVED STEEL FRAMEWORK TO DISTRIBUTE THE WEIGHT EVENLY AND TO PROVIDE A 1" AIR SPACE BETWEEN THE WALL AND DEVICE.

H. ALL PANEL BOARDS, DISCONNECTS AND STARTERS SHALL BE INSTALLED AS TO MAINTAIN THE CLEARANCES REQUIRED BY NEC. THIS CONTRACTOR SHALL SUBMIT DETAILED DRAWINGS SHOWING THE EXACT LOCATION OF DEVICES AND CLEARANCES BASED ON SUBMITTED EQUIPMENT AND ACTUAL FIELD CONDITIONS PRIOR TO ORDERING EQUIPMENT.

I. TANDEM BREAKERS SHALL NOT BE USED.

J. PLUG-ON BREAKERS SHALL NOT BE USED.

K. PROVIDE STARTERS / DISCONNECTS FOR ALL NEW EQUIPMENT. REFER TO MECHANICAL AND PLUMBING DRAWINGS.

L. SINGLE POLE DEVICES SHALL BE PROVIDED WITH MOTOR RATED SNAP SWITCHES WITH PILOT LIGHT.

M. THREE POLE DEVICES SHALL BE PROVIDED WITH MANUAL STARTERS COMPLETE WITH 2 SETS OF NORMALLY OPEN (NO) AND 2 SETS OF NORMALLY CLOSED (NC) AUXILIARY CONTACTS, RED AND GREEN INDICATOR LIGHTS AND HAND OF AUTOMATIC (HOA) SWITCH.

8. EQUIPMENT CONNECTIONS

A. EXTEND WIRING TO ALL EQUIPMENT REQUIRING ELECTRICAL CONNECTIONS AND MAKE FINAL AND COMPLETE CONNECTIONS - CONNECTIONS. BEFORE ROUGHING-IN, THE LOCATION AND TYPE OF EQUIPMENT SHALL BE VERIFIED WITH THE SHOP DRAWINGS OF THE EQUIPMENT. STARTERS, DISCONNECTS AND OTHER ELECTRICAL CIRCUITRY AND DEVICES SHALL BE LOCATED TO ALLOW FOR ACCESS TO THE DEVICES AND NOT INTERFERE WITH THE OPERATION OF THE DEVICE.

B. COORDINATE THE EXACT LOCATION OF ALL MECHANICAL EQUIPMENT WITH THE MECHANICAL CONTRACTOR AND DRAWINGS AS TO PROVIDE CONNECTION AND CLEARANCE AS REQUIRED BY THE NEC.

C. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL CONTROL CIRCUITRY WITH THE MECHANICAL CONTRACTOR. COORDINATE INSTALLATION OF ALL DEVICES AND CONTROL CIRCUITRY AS TO NOT BLOCK EQUIPMENT ACCESS.

D. COORDINATE THE REQUIRED CONDUCTOR AND OVER CURRENT PROTECTION DEVICE SIZE WITH ACTUAL MOTOR S AND OTHER MECHANICAL EQUIPMENT FURNISHED, PER THE MECHANICAL SHOP DRAWINGS, BEFORE INSTALLING THE CIRCUITRY AND OVER CURRENT PROTECTION DEVICES. PROVIDE WIRING AN OVER CURRENT DEVICES AS REQUIRED BY ACTUAL EQUIPMENT INSTALLED.

9. GROUNDING

A. GROUND ELECTRICAL SYSTEMS AND EQUIPMENT IN ACCORDANCE WITH N.E.C. EXCEPT WHERE GROUNDING IN EXCESS OF N.E.C. REQUIREMENTS IS INDICATED.

B. ALL GROUNDING PATHS SHALL BE TESTED, VERIFIED AND SUBMITTED.

10. SUPPORTING DEVICES

A. PROVIDE SUPPORTING DEVICES TO FASTEN ELECTRICAL COMPONENTS SECURELY AND PERMANENTLY IN ACCORDANCE WITH N.E.C. AND LOCAL JURISDICTION REQUIREMENTS.

B. ALL DEVICES SHALL BE INSTALLED AS TO MEET NEC AND MANUFACTURERS PUBLISHED INSTRUCTIONS.

11. ELECTRICAL IDENTIFICATION

A. CONDUCTOR COLOR CODING: PROVIDE COLOR CODING OF FEEDERS AND BRANCH CIRCUITS TO MATCH BUILDING STANDARD OR AS APPROVED BY THE OWNER AS FOLLOWS:

Table with 3 columns: 120/208 VOLTS, PHASE, 120/240 VOLTS. Rows include BLACK, RED, BLUE, WHITE, GREEN and their corresponding phases A, B, C, N, G.

B. PROVIDE FRAMED, TYPED PANEL DIRECTORIES WITH EXPLICIT DESCRIPTION AND IDENTIFICATION OF ITEMS CONTROLLED BY EACH INDIVIDUAL CIRCUIT BREAKER IN EACH NEW AND EXISTING PANEL BOARD WHICH CONNECTIONS ARE MADE OR REMOVED UNDER THIS CONTRACT.

12. FIRE ALARM - REFER TO DWG. E3.0 FOR DIRECTIVES

ELECTRICAL SYMBOLS

Table with 3 columns: SYMBOL, DESCRIPTION, MTG HEIGHT TO C.A.F.F. U.O.N. Includes symbols for lighting fixtures, occupancy sensors, receptacles, homeruns, and equipment removal.

ABBREVIATIONS

Table with 4 columns: ABBREVIATION, DESCRIPTION, ABBREVIATION, DESCRIPTION. Includes terms like AFF, A, AIC, C, CM, EX, E.C., E.G., EM, EN, ERR, FACP, FAAP, G, GFI, HP, MCB, MLO, N, P, PNL, R, U.O.N., V, W, WP, ø.



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Revision table with columns: No., Date, Appr, Revision, Notes. Includes entry for 3/1/24 Issue For Permit.



STATE OF MARYLAND PROFESSIONAL ENGINEER No. 13313
PROFESSIONAL CERTIFICATION. I HEREBY CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME, AND THAT I AM A DULY LICENSED PROFESSIONAL ENGINEER UNDER LAWS OF THE STATE OF MARYLAND. LICENSE NO. 13313 EXPIRATION DATE: 02-01-2025

PROJECT #21006
ELECTRICAL SYMBOLS, NOTES AND ABBREVIATIONS

E.O. 1

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COMcheck Software Version COMcheckWeb
Interior Lighting Compliance Certificate

Project Information
 Energy Code: 2018 IECC
 Project Title: Total Health Restrooms
 Project Type: Alteration
 Construction Site: 1501 West Saratoga Street, Baltimore, Maryland 21223
 Owner/Agent: Waka Mbal
 Designer/Contractor: Waka Mbal, CECA LLC, 9901 Business Pkwy, Lanham 20706, 3019671739, wmbal@ceca.com

Allowed Interior Lighting Power

Area Category	B Floor Area (ft ²)	C Allowed Watts / ft ²	D Allowed Watts
1-Restroom Area (Common Space Types: Restrooms)	350	0.85	298
Total Allowed Watts =			298

Proposed Interior Lighting Power

Fixture ID : Description / Lamp / Wattage Per Lamp / Ballast	B Lamps	C # of Fixture	D Watt. (C X D)	E
Restroom Area (Common Space Types: Restrooms, 350 sq.ft.) LED: A: 2x4 LED LINEAR LIGHT FIXTURE, Other:	1	5	37	185
LED: V: VANITY LIGHT, Other:	1	5	5	25
Total Proposed Watts =			210	

Interior Lighting COMPLIANCE
Statement
 Compliance Statement: The proposed interior lighting alteration project represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed interior lighting systems have been designed to meet the 2018 IECC requirements in COMcheck Version COMcheckWeb and to comply with any applicable mandatory requirements listed in the Inspection Checklist.
 Waka - Electrical Engineer Waka Mbal 03/01/2024
 Name - Title Signature Date

Project Title: Total Health Restrooms Report date: 03/01/24
 Data filename: Page 1 of 5

COMcheck Software Version COMcheckWeb
Inspection Checklist
 Energy Code: 2018 IECC

Requirements: 100.0% were addressed directly in the COMcheck software
 Text in the "Comments/Assumptions" column is provided by the user in the COMcheck Requirements screen. For each requirement, the user certifies that a code requirement will be met and how that is documented, or that an exception is being claimed. Where compliance is itemized in a separate table, a reference to that table is provided.

Section # & Req. ID	Plan Review	Complies?	Comments/Assumptions
C103.2 (P104)	Plans, specifications, and/or calculations provide all information with which compliance can be determined for the interior lighting and electrical systems and equipment and document where exceptions to the standard are claimed. Information provided should include interior lighting power calculations, wattage of bulbs and ballasts, transformers and control devices.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)
 Project Title: Total Health Restrooms Report date: 03/01/24
 Data filename: Page 2 of 5

Section # & Req. ID **Rough-In Electrical Inspection** **Complies?** **Comments/Assumptions**

C405.2.2.2 (EL22)	Spaces required to have light-reduction controls have a manual control that allows the occupant to reduce the corrected lighting level in a reasonably uniform illumination pattern >= 50 percent.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.1 (EL18)	Occupancy sensors installed in classroom/meeting/training rooms, conference/meeting/multipurpose rooms, copy/print rooms, lounges/breakrooms, enclosed offices, open plan office areas, restrooms, storage rooms, locker rooms, warehouse storage areas, and other spaces <= 300 sq ft that are enclosed by floor-to-ceiling height partitions. Reference section language C405.2.1.2 for control function in warehouses and section C405.2.1.3 for open plan office spaces.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.1 (EL19)	Occupancy sensors control function in warehouses, the lighting in aiseways and open areas is controlled with occupant sensors that automatically reduce lighting power by 50% or more when the areas are unoccupied. The occupant sensors control lighting in each aiseway independently and do not control lighting beyond the aiseway being controlled by the sensor.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.1 (EL20)	Occupant sensor control function in open plan office areas. Occupant sensor controls in open office spaces >= 300 sq ft. have controls 1) configured so that general lighting can be controlled separately in control zones with floor areas <= 500 sq ft. within the space, 2) automatically turn off general lighting in all control zones within 20 minutes after all occupants have left the space, 3) are configured so that general lighting power in each control zone is reduced by >= 50% of the full zone general lighting power within 20 minutes of all occupants leaving that control zone, and 4) are configured such that any daylight-responsive control will activate space general lighting or control zone general lighting only when occupancy for the same area is detected.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.2 (EL21)	Each area not served by occupancy sensors (per C405.2.1) have time-switch controls and functions detailed in sections C405.2.2.1 and C405.2.2.2.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Lighting controlled by occupancy sensors.

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)
 Project Title: Total Health Restrooms Report date: 03/01/24
 Data filename: Page 3 of 5

Section # & Req. ID **Rough-In Electrical Inspection** **Complies?** **Comments/Assumptions**

C405.2.3 (EL23)	Daylight zones provided with individual controls that control the lights independent of general area lighting. See code section C405.2.3.2 (EL23) for applicable exceptions.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.2.4 (EL24)	Separate lighting control devices for specific uses installed per approved lighting plans.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.2.4 (EL27)	Additional interior lighting power allowed for special functions per the approved lighting plans and is automatically controlled and separated from general lighting.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.3 (EL4)	Exit signs do not exceed 5 watts per foot.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.6 (EL26)	Low-voltage dry-type distribution electric transformers meet the minimum efficiency requirements of Table C405.6.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.7 (EL27)	Electric motors meet the minimum efficiency requirements of Tables C405.7(1) through C405.7(4). Efficiency verified through certification under an approved certification program or the equipment efficiency ratings shall be provided by motor manufacturer (where certification programs do not exist).	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.8.2 (EL28)	Escalators and moving walks comply with ASME A17.1/CSA B44 and have automatic controls configured to reduce speed to the minimum permitted speed in accordance with ASME A17.1/CSA B44 or applicable local code when not conveying passengers.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Exception: Requirement does not apply.
C405.9 (EL29)	Total voltage drop across the combination of feeders and branch circuits <= 5%.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)
 Project Title: Total Health Restrooms Report date: 03/01/24
 Data filename: Page 4 of 5

Section # & Req. ID	Final Inspection	Complies?	Comments/Assumptions
C408.2.5 (F117)	Furnished OEM instructions for systems and equipment to the building owner or designated representative.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C405.4.1 (F118)	Interior installed lamp and fixture lighting power is consistent with what is shown on the approved lighting plans, demonstrating proposed watts are less than or equal to allowed watts.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	See the interior lighting fixture schedule for values.
C408.1.1 (F137)	Building operations and maintenance documents will be provided to the owner. Documents will cover manufacturers' information, specifications, programming procedures and means of illustrating to owner how building, equipment and systems are intended to be installed, maintained, and operated.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.2.5 (F116)	Furnished as-built drawings for electric power systems within 90 days of system acceptance.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.
C408.3 (F133)	Lighting systems have been tested to ensure proper calibration, adjustment, programming, and operation.	<input type="checkbox"/> Complies <input type="checkbox"/> Does Not <input type="checkbox"/> Not Observable <input type="checkbox"/> Not Applicable	Requirement will be met.

Additional Comments/Assumptions:

1 High Impact (Tier 1) 2 Medium Impact (Tier 2) 3 Low Impact (Tier 3)
 Project Title: Total Health Restrooms Report date: 03/01/24
 Data filename: Page 5 of 5

LIGHTING FIXTURE SCHEDULE

TYPE	MANUFACTURER	CATALOG NUMBER	DESCRIPTION	LAMP	VOLTS	WATTAGE	DIMMING
A	DAY-BRITE CFI	2X4 LED LINEAR LIGHT	2X4 LED FIXTURE	LED	120	37.0	1%(0-10 VOLT DIMMING)
VL	PURE EDGE LIGHTING	TXW2A-5W-4SQ-22-27K-S-CH	VANITY LIGHT	LED	120	5.0	



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No.	Date	Appr	Revision	Notes
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				Issue Notes
				PRINT DATE, TIME & FILE NAME.



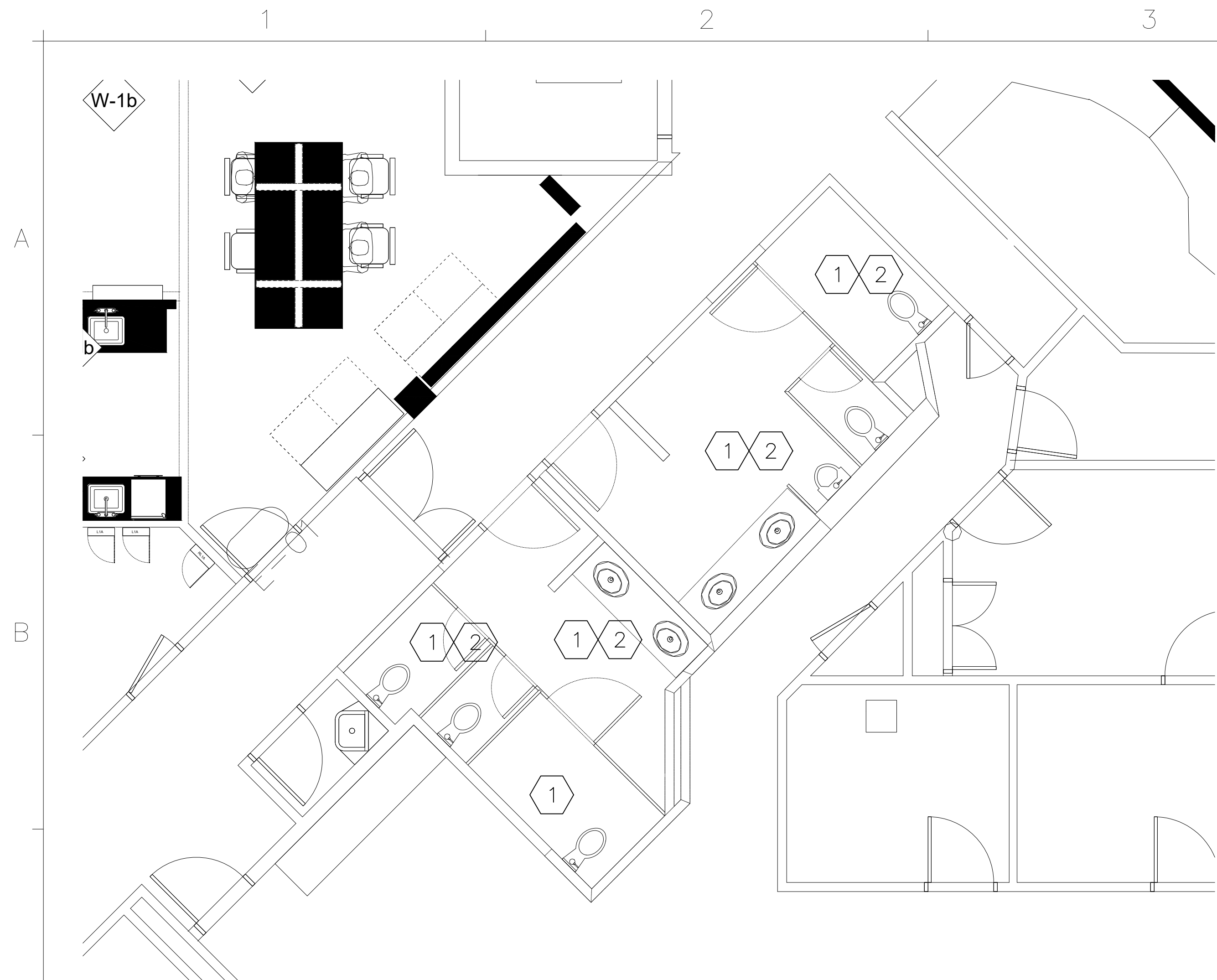
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PROJECT #21006
 ELECTRICAL COMCHECK AND
 LIGHTING FIXTURE SCHEDULE

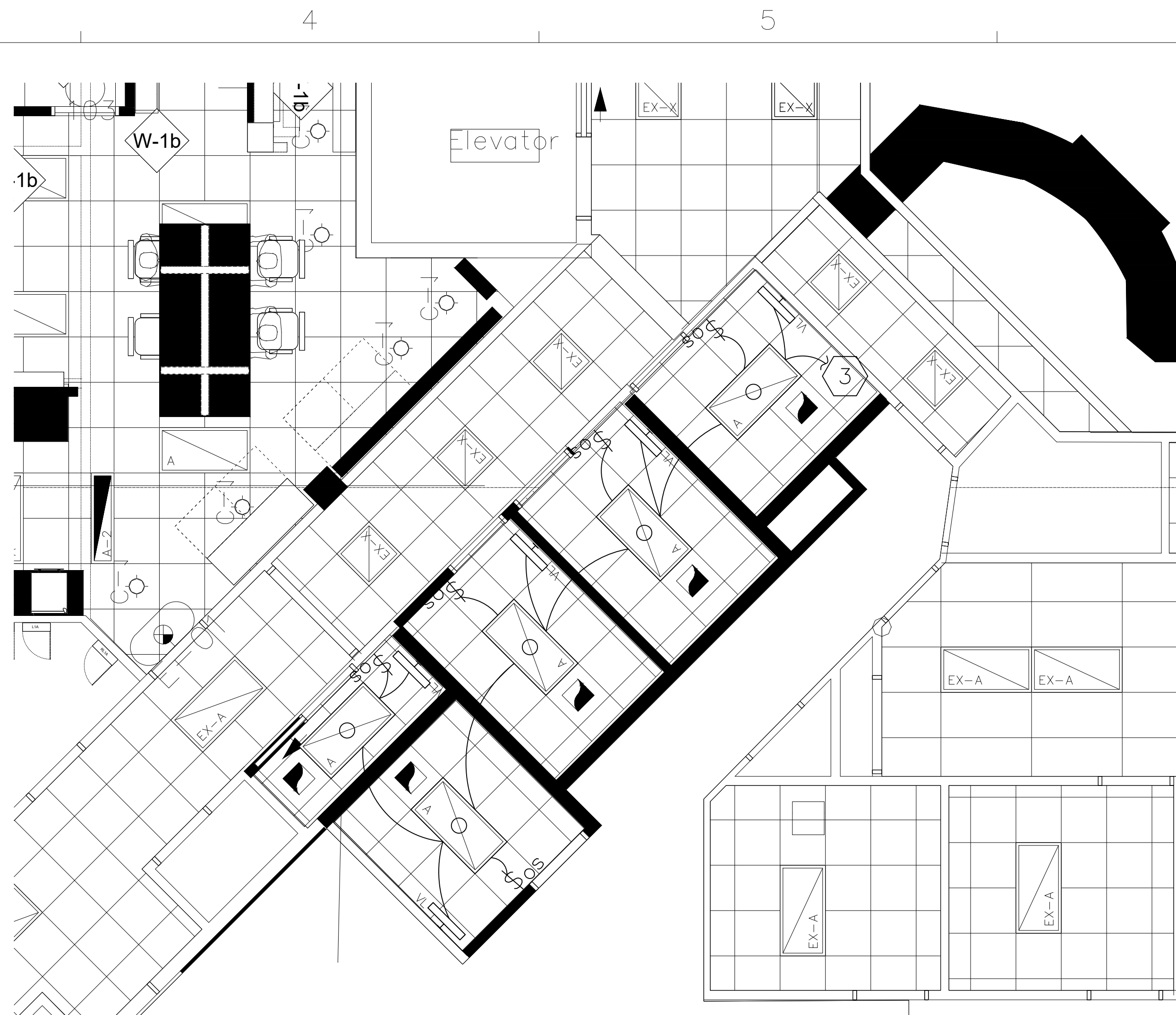
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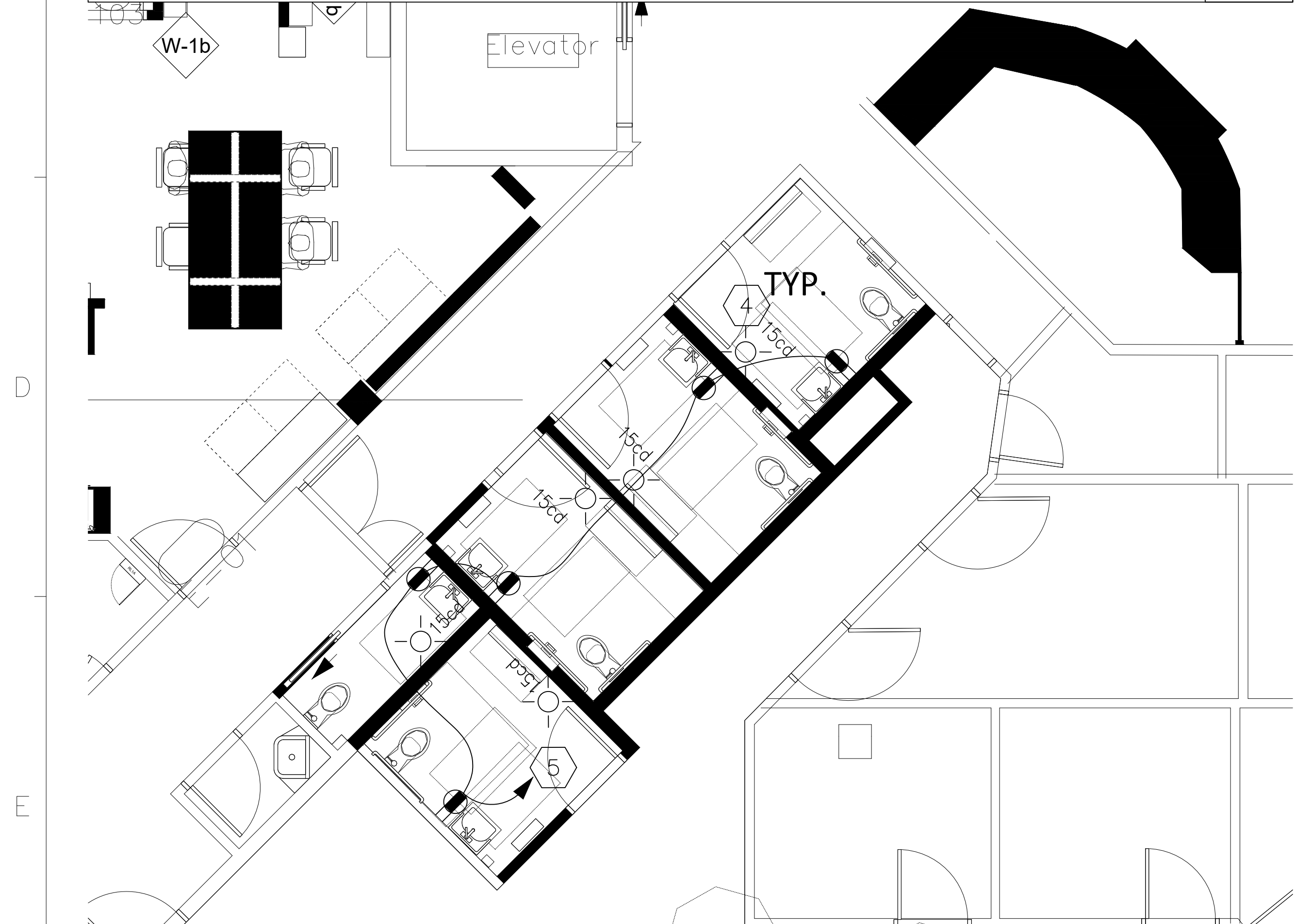
PERMIT SET 03/01/2024



DEMOLITION PLAN
SCALE 1/4" = 1'-0"
C3



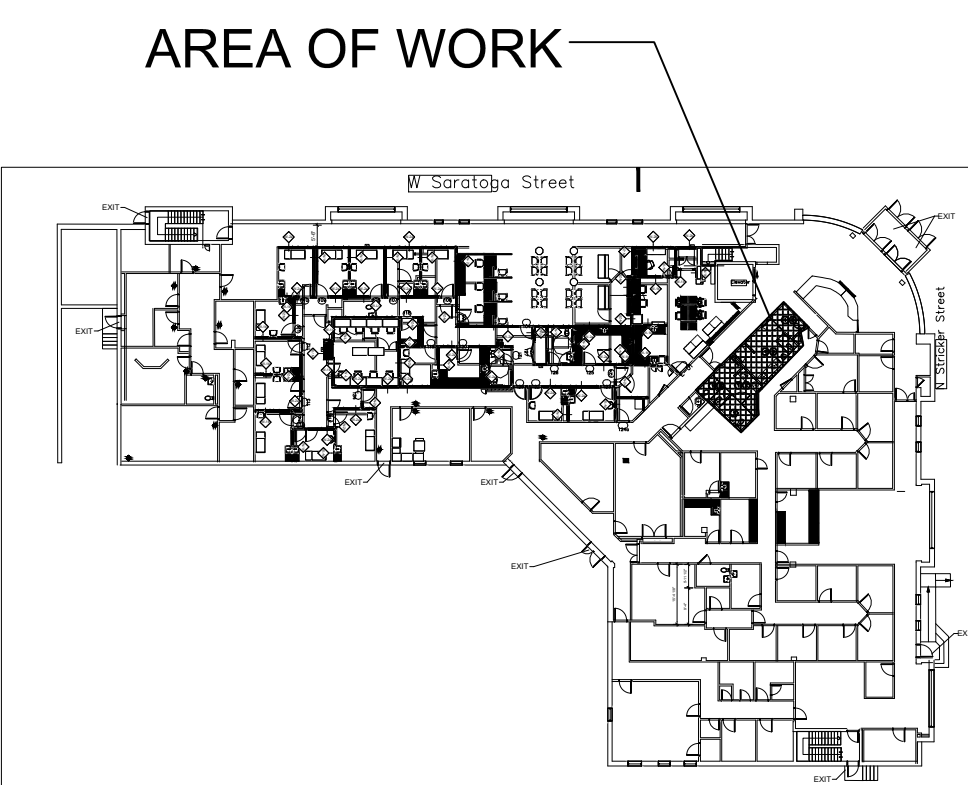
NEW WORK LIGHTING PLAN
SCALE 1/4" = 1'-0"
C6



NEW WORK POWER AND FIRE ALARM PLAN
SCALE 1/4" = 1'-0"
E3

PLAN KEY NOTES

1	ALL EXISTING FIRE ALARM DEVICES, EMERGENCY LIGHTING, LIGHTING FIXTURES AND CONTROLS SHALL BE DISCONNECTED AND REMOVED. ALL ASSOCIATED BRANCH CIRCUIT WIRING, INCLUDING CONDUIT WITHIN DEMOLITION AREA SHALL BE KEPT AND REUSED FOR NEW SCOPE. ELECTRICAL CONTRACTOR SHALL CONTACT BUILDING MANAGER AND TENANT TO DETERMINE IF ANY REMOVED LIGHTING FIXTURES OR EQUIPMENT IS DESIRED FOR STOCK PRIOR TO DISPOSAL.
2	ALL EXISTING RECEPTACLES IN THIS AREA ARE TO BE REMOVED. ALL BRANCH CIRCUIT WIRING TO BE KEPT AND CAPPED FOR REUSE OF NEW SCOPE.
3	CONNECT NEW LIGHTS TO EXISTING LIGHTING CIRCUIT PREVIOUSLY SERVING THIS AREA. CIRCUIT NOT TO EXCEED 4400W.
4	CONNECT NEW FIRE ALARM DEVICES TO EXISTING FIRE ALARM CIRCUIT PREVIOUSLY SERVING AREA.
5	CONNECT NEW GFCI RECEPTACLE TO EXISTING RECEPTACLE CIRCUIT PREVIOUSLY SERVING AREA.



KEY PLAN
E6



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PROJECT #21006
ELECTRICAL DEMOLITION AND NEW WORK PLANS

E4.1

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