

FORSYTH COUNTY WATER SEWER RENOVATION

PERMIT SET



102 Mary Alice Park Road, Suite 103
Cumming, GA 30040



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11/17/2021 4:29:33 PM C:\Users\wregan\Documents\21069 FOCO Water Sewer Renovation_ARCH - RVT 21_wregan@jericho-design.com.rvt

PROJECT DIRECTORY		ABBREVIATIONS		SYMBOLS		DRAWING INDEX			
OWNER:	FORSYTH COUNTY BOARD OF COMMISSIONERS 110 EAST MAIN STREET CUMMING, GA 30040	DAN CALLAHAN TEL: 678-965-7201 DBCALLAHAN@FORSYTHCO.COM	@ ACT A.F.F. ALUM. B/ BD. BLDG. BR BRG CFMF C.L. CLR C.J. CMU COORD. COL CONC. CONT. Ø DWG. D.S. EA ELEV. ELEC. E.S. EXP. EXT. E.W.C. F.D. FEC F.F. FL. F.O. F.O.F. F.O.M. FOIC FURNISHED BY OWNER BY CONTRACTOR F.R. FRAN. FRP	AT ACOUSTICAL CEILING TILE ABOVE FINISHED FLOOR ALUMINUM BOTTOM OF BOARD BUILDING BRICK BEARING COLF FORMED METAL FRAMING CENTER LINE CLEAR CONTROL JOINT CONCRETE MASONRY UNIT COORDINATE COLUMN CONCRETE CONTINUOUS DIAMETER DRAWING DOWN SPOUT EACH ELEVATION ELECTRIC EQUIPMENT SUPPLIER EXPANSION EXTERIOR ELECTRIC WATER COOLER FLOOR DRAIN FIRE EXTINGUISHER CABINET FINISHED FLOOR FLOOR FACE OF FACE OF FINISH FACE OF MASONRY FURNISHED BY OWNER INSTALLED BY CONTRACTOR FIRE RETARDANT FRANCHISEE FIBERGLASS REINFORCED POLYESTER	G.C. GYP. BD. H.M. HT I.B.C. JT. L.L. MFR. MAT. MAX. MECH. MIN. MTL. NC. N.I.C. N.T.E. N.T.S. O.D. OPP. PL PL WVD. PR P.T. O.C. R.D. S.B.O. SCHED. SIM. STL. STRUCT. T/ T&G TYP U.N.O. VERT. VVC W W/ WD. W.W.F.	GENERAL CONTRACTOR GYPSUM BOARD HOLLOW METAL HEIGHT INSTALLED BY CONTRACTOR JOINT LANDLORD MANUFACTURER MATERIAL MAXIMUM MECHANICAL MINIMUM METAL NON-COMBUSTIBLE NOT IN CONTRACT NOT TO EXCEED NOT TO SCALE OVERFLOW DRAIN OPPOSITE PLASTIC LAMINATE PLYWOOD PAIR PRESSURE TREATED ON CENTER ROOF DRAIN SUPPLIED BY OWNER SCHEDULE SIMILAR STEEL STRUCTURAL TOP OF TONGUE AND GROOVE TYPICAL UNLESS NOTED OTHERWISE VERTICAL VINYL WALL COVERING WIDE WITH WOOD WELDED WIRE FABRIC	1 A-3.1 SECTION MARK 'S/M' - SIMILAR 'OH' - OPPOSITE HAND ENLARGED PLAN / DETAIL MARK DOOR REFERENCE NUMBER SEE SHEET A-600 OFFICE ROOM NAME & NUMBER COLUMN AND GRID NUMBER WINDOW REFERENCE NUMBER SEE SHEET A-601 SOLID GROUT WOOD DIMENSIONAL SHEATHING PLASTER, GYPSUM WALLBOARD	BATT INSULATION EARTH GRANULAR CONCRETE BRICK STEEL, IRON WOOD MORTAR NET RIGID INSULATION	SHEET NO. SHEET NAME
ARCHITECT:	JERICO DESIGN GROUP 102 MARY ALICE PARK ROAD SUITE 103 CUMMING, GA 30040	DOUG SHAW TEL: 678-983-5992 dshaw@jericho-design.com						01 COVER CS-1.01 COVER SHEET 02 LIFE SAFETY LS-1.01 LIFE SAFETY 03 GENERAL G-1.01 ADA REGULATORY DETAILS, DIAGRAMS & PARTITION TYPES G-3.01 SPECIFICATIONS G-3.02 SPECIFICATIONS 07b ARCHITECTURAL D-1.01 DEMOLITION PLAN 07c ARCHITECTURAL A-1.01R REFERENCE & FINISH PLAN A-2.01 REFLECTED CEILING PLAN A-7.01 DOOR & WINDOW SCHEDULE/ FURNITURE AND EQUIPMENT PLAN 08 INTERIORS ID-5.01 INTERIOR SECTIONS & DETAILS 09 MECHANICAL AND PLUMBING M-0-00 LEGEND, DETAILS, & SCHEDULES - HVAC M-0-02 SPECIFICATIONS - HVAC M-2-00 FLOOR PLAN - HVAC 10 ELECTRICAL E-0-01 ELECTRICAL SYMBOLS AND NOTES E-0-02 ELECTRICAL DETAILS E-1-00 FLOOR PLAN - DEMOLITION E-2-00 FLOOR PLAN - ELECTRICAL & LIGHTING 11 PLUMBING P-0.01 SCHEDULE & FLOOR PLAN - PLUMBING	
MECHANICAL ELECTRICAL & PLUMBING:	CONWAY & OWEN 1455 BLUEGRASS LAKES PKWY ALPHARETTA, GA 30004	KEN BOVE TEL: 678.350.9000 KBOVE@CONWAY-OWEN.COM						<div data-bbox="2121 1113 2426 1257" data-label="Text"> <p>Forsyth County Fire Department Reviewed for Code Compliance By reviewing the plans for Code Compliance, the undersigned does not release the owner, design professional, contractor or their representatives from the responsibility to comply with all local, state, and national codes and standards in effect at time of permit issuance.</p> <p><i>Jody W. Yezzer</i> Dec 08 2021 Final Approval Subject to Field Inspections</p> </div> <div data-bbox="2121 1257 2426 1410" data-label="Text"> <p>If Not Already Existing Key box shall be located on the exterior of the building at an approved location.</p> <p>Forsyth County Ordinance Part II Section 38-51F www.knoxbox.com</p> </div> <div data-bbox="2121 1410 2426 1522" data-label="Text"> <p>IF APPLICABLE Fire Alarm, Sprinkler Plans, Hoods, Suppression Systems and Emergency Responder Radio must be submitted to Fire Department separately and approved prior to any installations of such systems.</p> </div>	
VICINITY MAP		GENERAL NOTES							
		<p>1. THESE DRAWINGS ARE THE PROPERTY OF JERICO DESIGN GROUP, LLC AND SHALL NOT BE REPRODUCED OR COPIED (PHYSICALLY AND/OR DIGITALLY) IN PART OF WHOLE. THEY ARE TO BE USED FOR THIS PROJECT ONLY AND ARE NOT TO BE USED ON ANY OTHER PROJECT.</p> <p>2. DRAWINGS AND SPECIFICATIONS ARE INTENDED TO AGREE AND BE MUTUALLY EXPLANATORY. THEY SHALL BE ACCEPTED/USED AS A WHOLE; NOT SEPARATELY. SHOULD ANY ITEMS BE OMITTED FROM THE DRAWINGS AND BE HEREIN SPECIFIED, OR VICE VERSA, IT SHALL BE EXECUTED THE SAME AS IF SHOWN AND COMBINED IN BOTH. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO SUPPLY ENTIRE SET TO EACH SUBCONTRACTOR.</p> <p>3. THE CONTRACTOR IS TO NOTIFY ARCHITECT OF ANY DISCREPANCIES AFTER FULL REVIEW OF CONTRACT DOCUMENTS TO INCLUDE BUT NOT LIMITED TO ERRORS, OMISSIONS, INCONSISTENCIES, DISCREPANCIES, AND CONFLICTS WITH THE DRAWINGS/SPECIFICATIONS OR AS RELATED TO FIELD CONDITIONS. CONTRACTOR TO CONTACT ARCHITECT IMMEDIATELY TO DISCUSS A RESOLUTION.</p> <p>4. DO NOT SCALE THE DRAWINGS UNDER ANY CONDITION.</p> <p>5. WORK PERFORMED SHALL BE IN ACCORDANCE TO ALL FEDERAL, STATE AND LOCAL BUILDING CODE REQUIREMENTS PER INDUSTRY STANDARDS. ALL REQUIRED PERMITS AND FEES ASSOCIATED ARE TO BE THE RESPONSIBILITY OF THE CONTRACTOR NECESSARY FOR START AND COMPLETION OF THE PROJECT. COPIES OF INSPECTIONS AND PERMITS SHALL BE FURNISHED TO OWNER AT REQUEST AND/OR AT PROJECT CLOSEOUT.</p> <p>6. CONTRACTOR TO TAKE PRECAUTIONS IN PROTECTING THE WORK DURING CONSTRUCTION. ANY DAMAGE TO BE RESTORED TO ORIGINAL CONSTRUCTION BY THE CONTRACTOR. PATCH AND REPAIR ALL ITEMS DAMAGED OR ALTERED DURING CONSTRUCTION BY THE CONTRACTOR. ALL PATCHES SHALL BLEND WITH ADJACENT MATERIAL, COLOR, FINISH, AND TEXTURE. ALL EXISTING WORK FURNISHINGS, EQUIPMENT OR MATERIAL TO REMAIN THAT ARE DAMAGED BY THE CONTRACTOR'S OPERATION SHALL BE REPAIRED BY THE CONTRACTOR AT NO ADDITIONAL COST TO THE OWNER.</p> <p>7. REQUESTS FOR SUBSTITUTIONS MUST BE SUBMITTED IN WRITING TO THE ARCHITECT FOR CONSIDERATION ONLY IF IMPACT TO SCHEDULE, COST CHANGE OR QUALITY OF PRODUCT. ACCEPTANCE BY ARCHITECT DOES NOT IDENTIFY PRODUCT TO BE OF BETTER QUALITY THAN SPECIFIED PRODUCT.</p> <p>8.</p> <p>9. FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO COMMENCEMENT OF ANY CONSTRUCTION ACTIVITIES. NOTIFY THE ARCHITECT OF ANY DISCREPANCIES BETWEEN FIELD CONDITIONS AND CONTRACT DOCUMENTS PRIOR TO ANY CONSTRUCTION ACTIVITY IN AREA OF CONCERN.</p> <p>10. THE LOCATION OF THE EXISTING UTILITIES & STRUCTURES SHOWN HEREIN ARE APPROXIMATE. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO VERIFY THE EXISTENCE & ACTUAL LOCATIONS OF ALL, SHOWN OR NOT SHOWN. ANY DAMAGES RESULTING BY CONTRACTORS' ACTIVITIES SHALL BE REPAIRED AT THE EXPENSE OF THE CONTRACTOR.</p> <p>11. THE CONTRACTOR SHALL PROVIDE ADEQUATE BRACING & SHORING FOR ALL WORK DURING THE CONSTRUCTION PERIOD.</p> <p>12. PROVIDE SEPARATION BETWEEN ALL DISSIMILAR METALS INCLUDING SCREWS, NAILS & OTHER FASTENING DEVICES TO AVOID GALVANIC CORROSION.</p> <p>13. PROVIDE EXPANSION AND CONTROL JOINTS IN ALL WORK AS PER PRODUCT MANUFACTURER'S STANDARDS, OR SPECIFICATIONS, UNLESS NOTED OTHERWISE.</p>		<p>14. ALL DIMENSIONS ARE WITNESSED TO THE OUTSIDE FACE OF MASONRY, FACE OF STUD, CENTER OF COLUMN, TOP OF STRUCTURAL CONCRETE SLAB OR ROUGH WINDOW OPENING UNLESS NOTED OTHERWISE.</p> <p>15. NOTES APPEAR ON VARIOUS SHEETS FOR DIFFERENT SYSTEMS AND MATERIALS. SHEETS ARE TO BE REVIEWED AND NOTES ON INDIVIDUAL SHEETS SHALL BE APPLIED TO RELATED DRAWINGS AND DETAILS.</p> <p>16. INTERIOR PARTITION MOVEMENT CONTROL - VERTICAL CONTROL JOINTS FOR ANY WALL LENGTH ARE TO OCCUR AT NOT MORE THAN 30'-0" O.C. IN THE HORIZONTAL DIRECTION, UNLESS NOTED OTHERWISE.</p> <p>17. THE CONTRACTOR IS RESPONSIBLE FOR THE COORDINATION OF ALL PARTS OF THE WORK SO THAT NO WORK SHALL BE LEFT IN AN UNFINISHED OR INCOMPLETE CONDITION.</p> <p>18. THE PROJECT AND ALL INTERIOR SPACES SHALL BE COMPLETELY OPERATIONAL UPON TURNOVER OF SPACE. THESE ARE TO INCLUDE SYSTEMS NOT LIMITED TO ARCHITECTURAL, INTERIORS, STRUCTURAL, CIVIL, MECHANICAL, ELECTRICAL, PLUMBING, AND FIRE PROTECTION SYSTEMS.</p> <p>19. IT IS THE CONTRACTOR'S RESPONSIBILITY TO COORDINATE LOCATIONS AND/OR ELEVATIONS OF FLOOR DRAINS, REGISTERS, GRILLES, LOUVERS, DUCTS, UNIT HEATERS, PANELS, ETC. WITH STRUCTURAL MECHANICAL AND ELECTRICAL CONTRACTORS.</p> <p>20. BOLTING OF WOOD TO STRUCTURAL MEMBERS SHALL BE WITH A MINIMUM OF 1/2" BOLTS X 4'-0" O.C. UNLESS NOTED OTHERWISE ON CONSTRUCTION DOCUMENTS AND/OR SPECIFICATIONS.</p> <p>21.</p> <p>22. CONTRACTOR SHALL COMPLY WITH STATE BUILDING CODES IN FIRESTOPPING ALL FLOOR PENETRATIONS.</p> <p>23. METAL STUDS AND HANGER WIRE ARE NOT TO BE ATTACHED DIRECTLY TO FLOOR/CEILING MTL DECKING. ATTACH TO STRUCTURAL STEEL, BAR JOIST, MISCELLANEOUS STEEL OR CONCRETE STRUCTURE ONLY. IF THE TOP TRACK OF THE METAL STUDS AND HANGER WIRE MUST BE CONNECTED TO METAL DECK, SEE STRUCTURAL NOTES FOR ATTACHMENT CRITERIA.</p> <p>24. GENERAL: ALL WOOD FRAMING/BLOCKING IN TYPE II CONSTRUCTION SHALL BE FIRE RETARDANT TREATED WOOD IN ACCORDANCE WITH 2012 IBC SECTION 603.</p> <p>25. IF EVIDENCE SUGGESTS THE PRESENCE OF MOLD ON, BEHIND OR WITHIN SURFACES OR MATERIALS (I.E., INCLUDING, BUT NOT LIMITED TO EXISTING GYPSUM BOARD, EXISTING FLOOR FINISHES AND/OR EXISTING CEILING TILE), IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY AREA, REMOVE PORTION OF MATERIAL WITH MOLD AND PATCH/REPAIR TO LIKE NEW CONDITION.</p> <p>26. ANY ALTERATION OR ANY INSTALLATION OF EQUIPMENT SHALL MEET AS NEARLY AS PRACTICABLE THE REQUIREMENTS FOR NEW CONSTRUCTION IN ACCORDANCE WITH NFPA 101: 4.6.7, 2012 EDITION.</p> <p>27. ALL DEMOLITION WORK SHALL COMPLY WITH THE REQUIREMENT OF NFPA 241, STANDARD FOR SAFEGUARDING CONSTRUCTION, ALTERATION, AND DEMOLITION OPERATIONS, 2012 EDITION.</p> <p>28. ALL ALTERATIONS OR MODIFICATIONS TO EXISTING BRANCH LINES OF THE EXISTING SPRINKLER SYSTEM SHALL BE SUBMITTED ALONG WITH HYDRAULIC CALCULATIONS TO THE STATE FIRE MARSHALL FOR APPROVAL IS WORK IS OUTSIDE THE SCOPE OF SECTIONS 4.4.1 THROUGH 4.4.4 OF THE RULES AND REGULATIONS OF THE SAFETY FIRE COMMISSIONER, CHAPTER 120-3-3, WHICH ADDS SECTION 4.4 TO NFPA 13.</p>					
KEY PLAN									

FORSYTH COUNTY WATER
SEWER
SUITE 150
FORSYTH COUNTY

110 E MAIN STREET
CUMMING, GA 30040

PRINT RECORD

No.	DATE	DESCRIPTION
	11/04/2021	Permit Drawings

Drawn By: EJ
Checked By: JDG
Date: 11/04/2020
Job No.: 20005

Sheet Title
COVER SHEET

Sheet No.
CS-1.01

NOT RELEASED FOR CONSTRUCTION

APPROVED BY
City of Cumming
Department of Utilities
Webb Hansard
12/07/2021

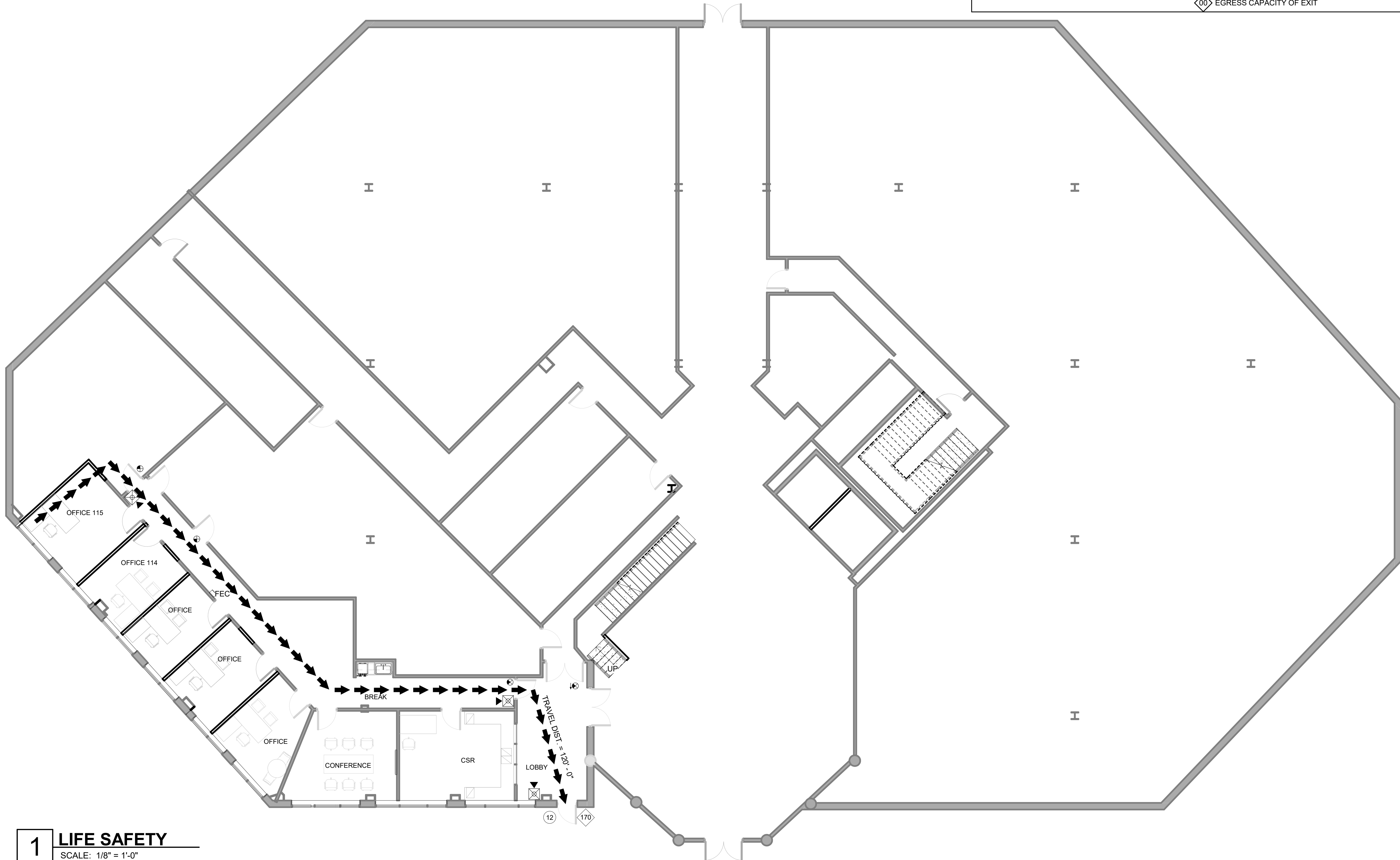
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BUILDING DATA	
OCCUPANCY CLASSIFICATION: BUSINESS (NFPA CHPT. 3) GROUP IIB (IBC CHPT 6)	INTERIOR WALL AND CEILING FINISH REQUIREMENTS (IBC TABLE 803.9): EXIT ENCLOSURES AND EXIT PASSAGEWAYS B CORRIDORS C ROOMS AND ENCLOSED SPACES C
TYPE OF CONSTRUCTION (IBC): RENOVATION, UNPROTECTED, SPRINKLERED (OFFICE BUILDING)	OCCUPANCY SEPARATIONS (IBC TABLE 508.3.3): B TO S-1 = 0 HRS B TO S-2 = 1 HRS S-2 TO S-1 = 1 HRS
BUILDING AREAS (IBC): SUITE 100 = 1,932 GSF	
BUILDING OCCUPANCY (NFPA): SUITE 100 = 12 PERSONS	

APPLICABLE CODES	
2018 INTERNATIONAL BUILDING CODE WITH GEORGIA AMENDMENTS (2020)	2015 INTERNATIONAL ENERGY CONSERVATION CODE WITH GEORGIA SUPPLEMENTS AND AMENDMENTS (2020)
2018 INTERNATIONAL FIRE CODE WITH GEORGIA AMENDMENTS (2020)	2018 NFPA 101, LIFE SAFETY CODE WITH GEORGIA AMENDMENTS (2020)
2018 INTERNATIONAL PLUMBING CODE WITH GEORGIA AMENDMENTS (2020)	2019 NFPA 72, NATIONAL FIRE ALARM & SIGNALING CODE WITH GEORGIA AMENDMENTS (2020)
2018 INTERNATIONAL MECHANICAL CODE WITH GEORGIA AMENDMENTS (2020)	2019 NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS WITH GEORGIA AMENDMENTS (2020)
2018 INTERNATIONAL FUEL GAS CODE WITH GEORGIA AMENDMENTS (2020)	2010 ADA STANDARDS, PER RULES AND REGULATIONS OF THE SAFETY FIRE COMMISSIONER 120-3-20A
2017 NATIONAL ELECTRICAL CODE (NO GEORGIA AMENDMENTS)	

LIFE SAFETY PLAN LEGEND	
SEPARATION PER IBC CHAPTER 5 --- EXISTING 1-HOUR RATED PARTITION --- NON-RATED PARTITION	OCCUPANCY PER LSC 7.3.1.2 PER GEORGIA AMENDMENTS TO THE IBC AREA SF / OCCUPANT LOAD FACTOR = OCCUPANCY COUNT (REFER TO PLANS FOR ROOM OCCUPANCY CALCULATIONS)
EXTINGUISHER LOCATION PER NFPA 10 FEC FIRE EXTINGUISHER IN RECESSED CABINET	EXIT SIGNS PER IBC 1011 EXIT SIGNAGE (SHADING INDICATES FACE OF SIGN; ARROW SHOWN INDICATES DIRECTION)
CAPACITY PER LSC 7.3.3.1 STAIRS = 0.3*/PERSON DOORS = 0.2*/PERSON 32"W DOOR = 30" CLR. = 150 CAPACITY 36"W DOOR = 34" CLR. = 170 CAPACITY 42"W DOOR = 40" CLR. = 200 CAPACITY 48"W DOOR = 46" CLR. = 230 CAPACITY 68"W DOOR = 64" CLR. = 320 CAPACITY 72"W DOOR = 68" CLR. = 340 CAPACITY 96"W DOOR = 92" CLR. = 460 CAPACITY	ALLOWABLE DISTANCE PER LSC 12.2.6 TRAVEL DISTANCE LIMIT - MAX. 300 FT. SPRINKLERED COMMON PATH LIMIT - MAX. 100 FT. SPRINKLERED DEAD END LIMIT - MAX. 50 FT. SPRINKLERED PATH OF EGRESS WITHIN BUILDING TRAVEL DISTANCE & COMMON PATH (SEE NOTES ON PLANS)
DOORS PER IBC 715.4	NUMBER OF EXITS PER IBC 1015 & LSC 7.4.1.2 00 ACTUAL EGRESS COUNT 00 EGRESS CAPACITY OF STAIR 00 EGRESS CAPACITY OF EXIT



1 LIFE SAFETY
SCALE: 1/8" = 1'-0"



102 Mary Alice Park Road, Suite 103
Cumming, GA 30040



FORSYTH COUNTY WATER SEWER
FORSYTH COUNTY
110 E MAIN STREET
CUMMING, GA 30040

PRINT RECORD

No.	DATE	DESCRIPTION
		Permit Drawings

Drawn By EJ
Checked By JDG
Date 10/12/2020
Job No. 20005

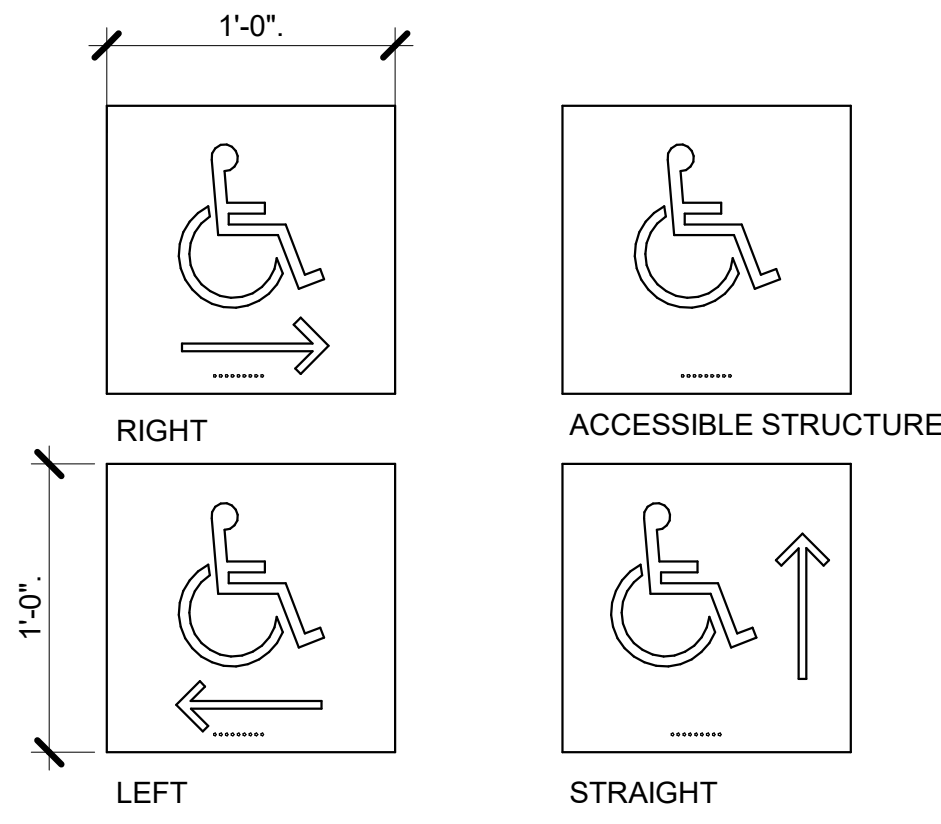
Sheet Title
LIFE SAFETY

Sheet No.
LS-1.01

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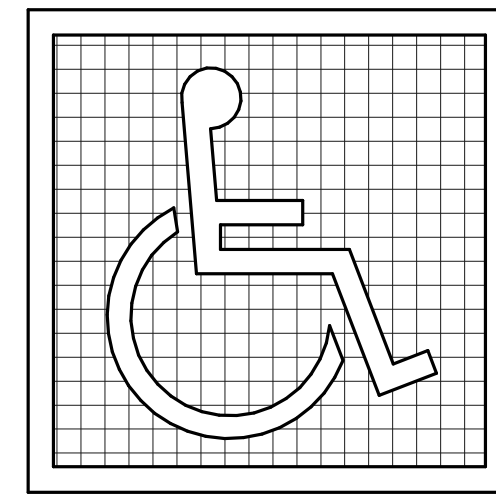
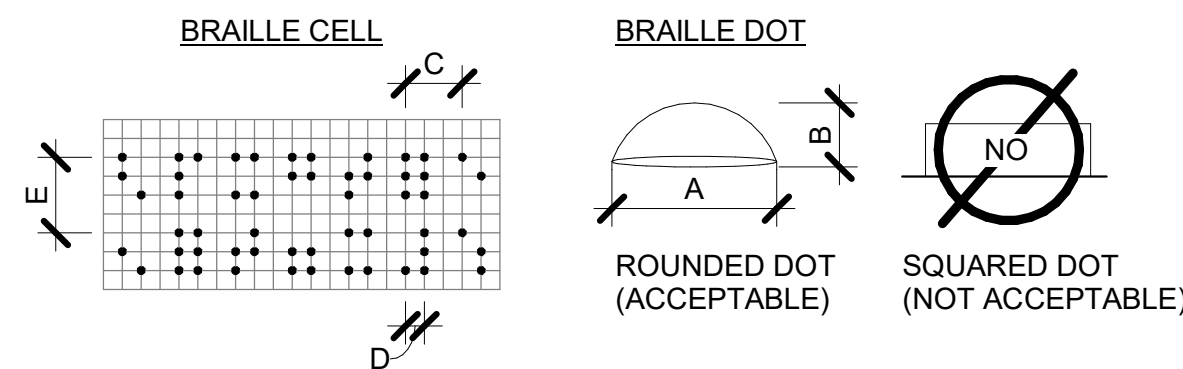
D1 DIRECTIONAL WALL SYMBOLS
NOT TO SCALE

- CHARACTER TYPE: CHARACTERS ON SIGNS SHALL BE RAISED 1/32" MINIMUM AND SHALL BE SANS SERIF UPPERCASE CHARACTERS ACCOMPANIED BY GRADE II BRAILLE.
- CHARACTER SIZE: RAISED CHARACTERS SHALL BE A MINIMUM OF 5/8" (15.9mm) AND A MAXIMUM OF 2" (51mm) HIGH.
- FINISH AND CONTRAST: CONTRAST BETWEEN CHARACTERS, SYMBOLS AND THEIR BACKGROUND MUST BE 70% MINIMUM AND HAVE A NON-GLARE FINISH.
- PROPORTIONS: CHARACTERS ON SIGNS SHALL HAVE A WIDTH-TO-HEIGHT RATIO OF BETWEEN 3.5 AND 1:1 AND A STROKE WIDTH-TO-HEIGHT RATIO OF BETWEEN 1.5 AND 1:10.

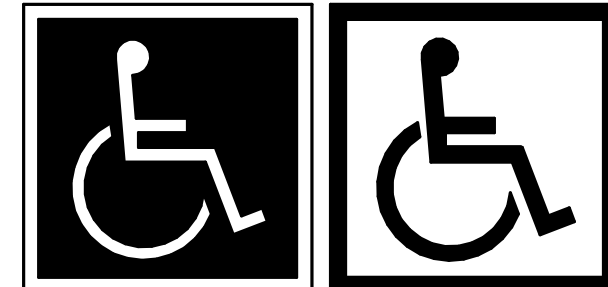
ALL LETTERS MEASURED MUST BE UPPERCASE. AFTER CHOOSING A TYPESTYLE TO TEST, BEGIN BY PRINTING THE LETTERS I, X AND O AT 1 INCH HIGH. PLACE THE TEMPLATE'S 1:1 SQUARE OVER THE X OR O, WHICHEVER IS NARROWER. IF THE CHARACTER IS NOT SMALLER THAN 1 INCH, NOR NARROWER THAN THE 3:5 RECTANGLE TO DETERMINE IF THE STROKE OF THE I IS TOO BROAD, AND THE 1:10 RECTANGLE TO SEE IF IT IS TOO NARROW. IF ALL THE TESTS ARE PASSED, THE TYPESTYLE IS COMPLIANT WITH PROPORTION CODE.

- BRAILLE: GRADE II BRAILLE SHALL BE USED WHENEVER BRAILLE IS REQUIRED IN OTHER PORTIONS OF THESE STANDARDS. SEE CHART FOR DIMENSIONS.

B1 BRAILLE REQUIREMENTS
SCALE: 12" = 1'-0"



A. SYMBOL PROPORTIONS



B. DISPLAY CONDITIONS

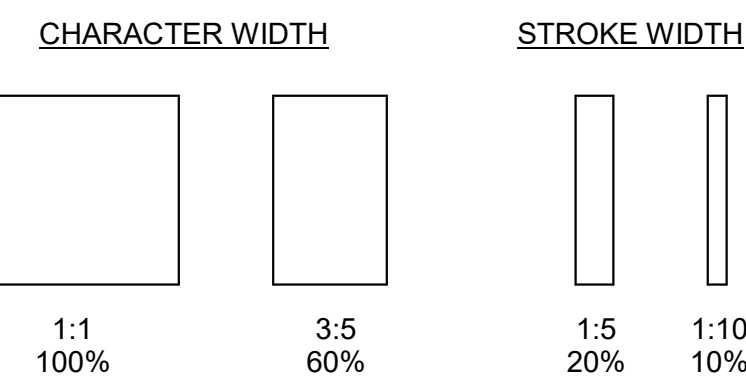
NOTE:

SYMBOL SIZE SHALL BE AS SCHEDULED IN SIGN LAYOUT DIAGRAMS. STROKE WIDTH TO HEIGHT RATIO SHALL BE BETWEEN 1.5 & 1:10.

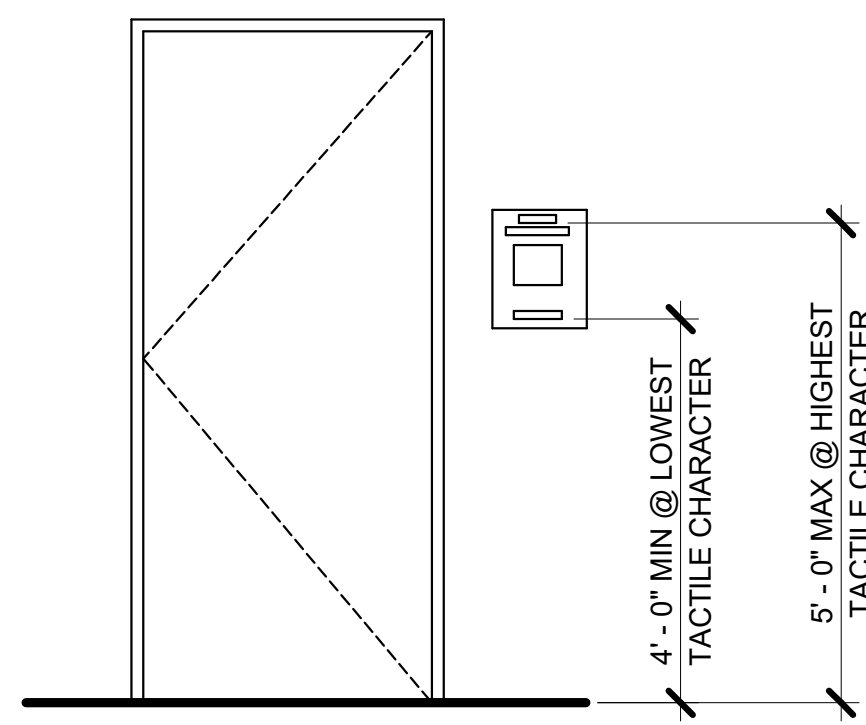
SIGN LETTERS/ NUMBERS WIDTH TO HEIGHT RATIO SHALL BE BETWEEN 1.5 & 1:10.

D2 INTERNATIONAL ACCESSIBILITY SYMBOL
SCALE: 12" = 1'-0"

TEMPLATE FOR CHECKING CHARACTER AND STROKE WIDTH TO HEIGHT PROPORTIONS

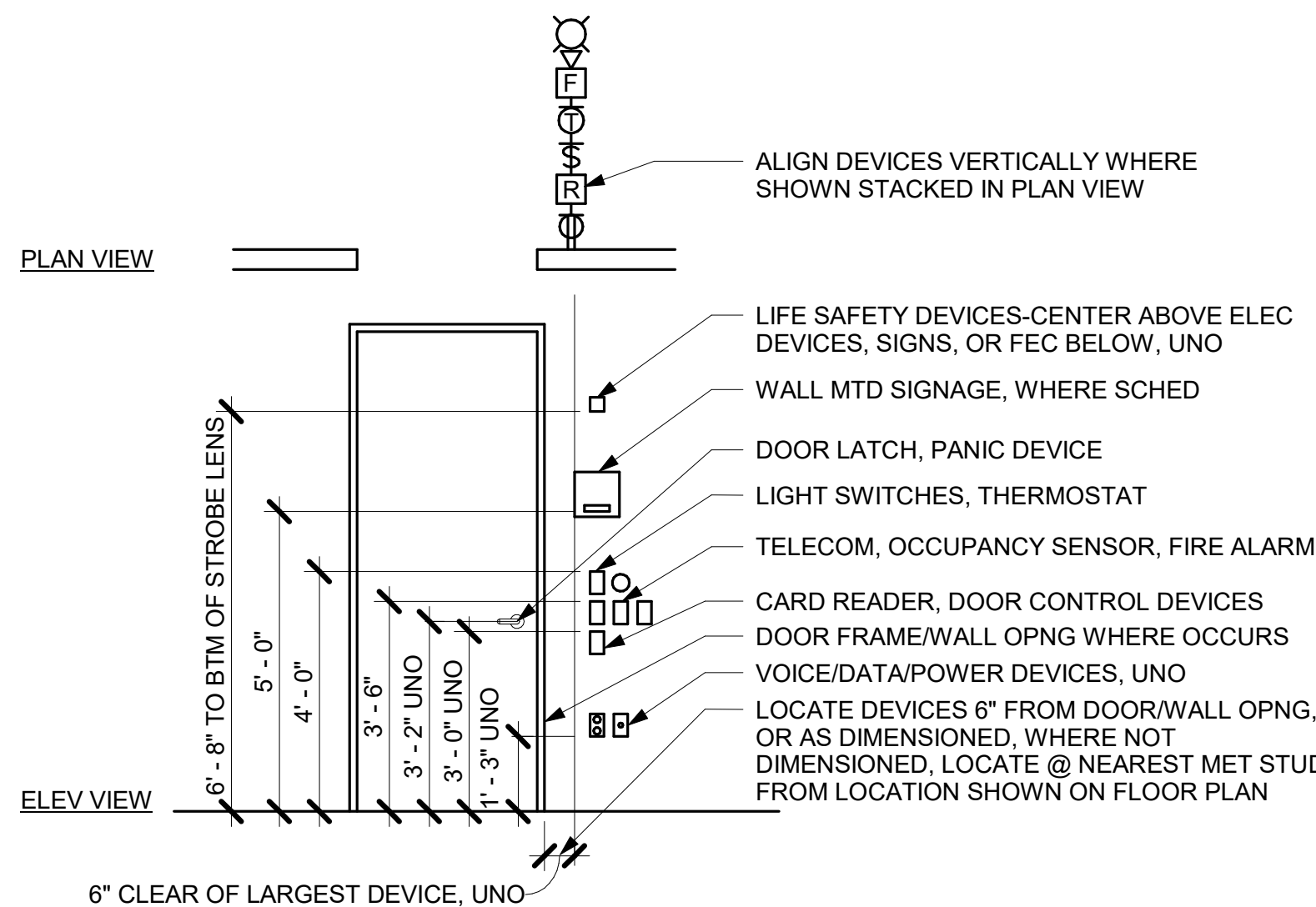


MEASUREMENT RANGE	MIN - MAX
A: DOT BASE DIAMETER	0.059" - 0.063"
B: DOT HEIGHT	0.025" - 0.037"
C: DISTANCE BETWEEN CORRESPONDING DOTS IN ADJACENT CELLS	0.241" - 0.300"
D: DISTANCE BETWEEN DOTS IN THE SAME CELL	0.090" - 0.100"
E: DISTANCE BETWEEN CORRESPONDING DOTS FROM ONE CELL DIRECTLY BELOW	0.395" - 0.400"

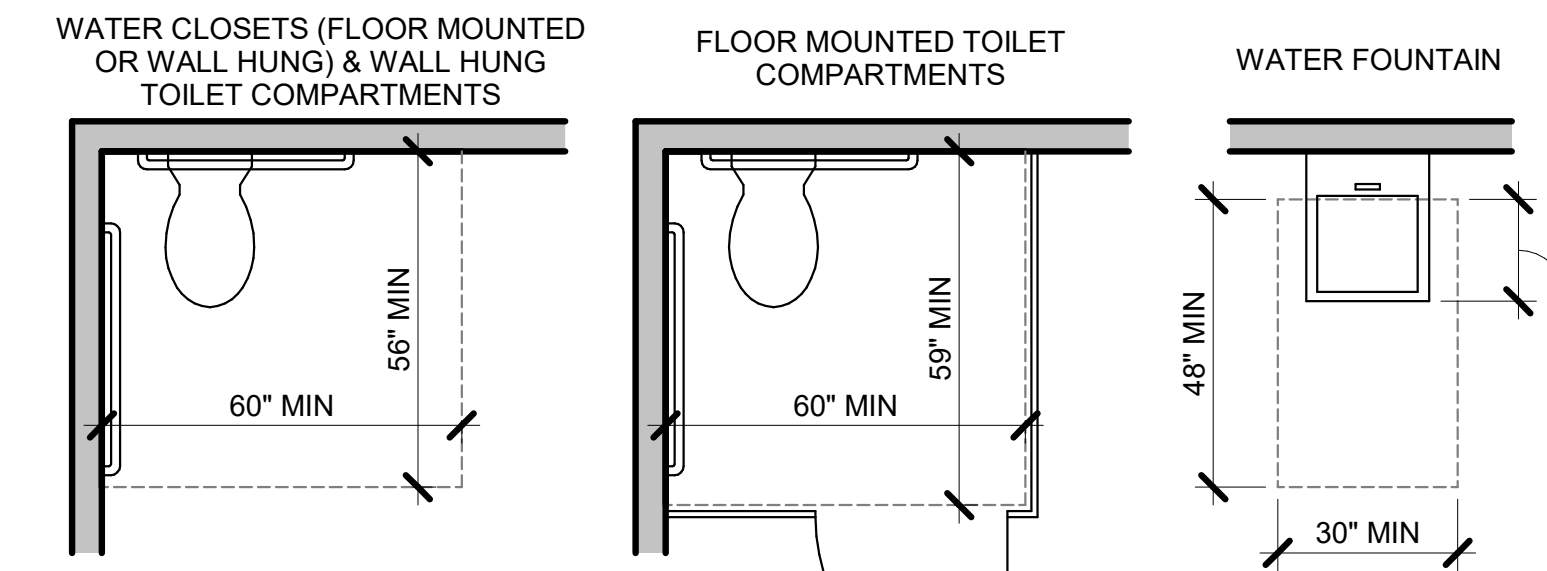


D3 SIGNAGE MOUNTING REQMTS
SCALE: 1/2" = 1'-0"

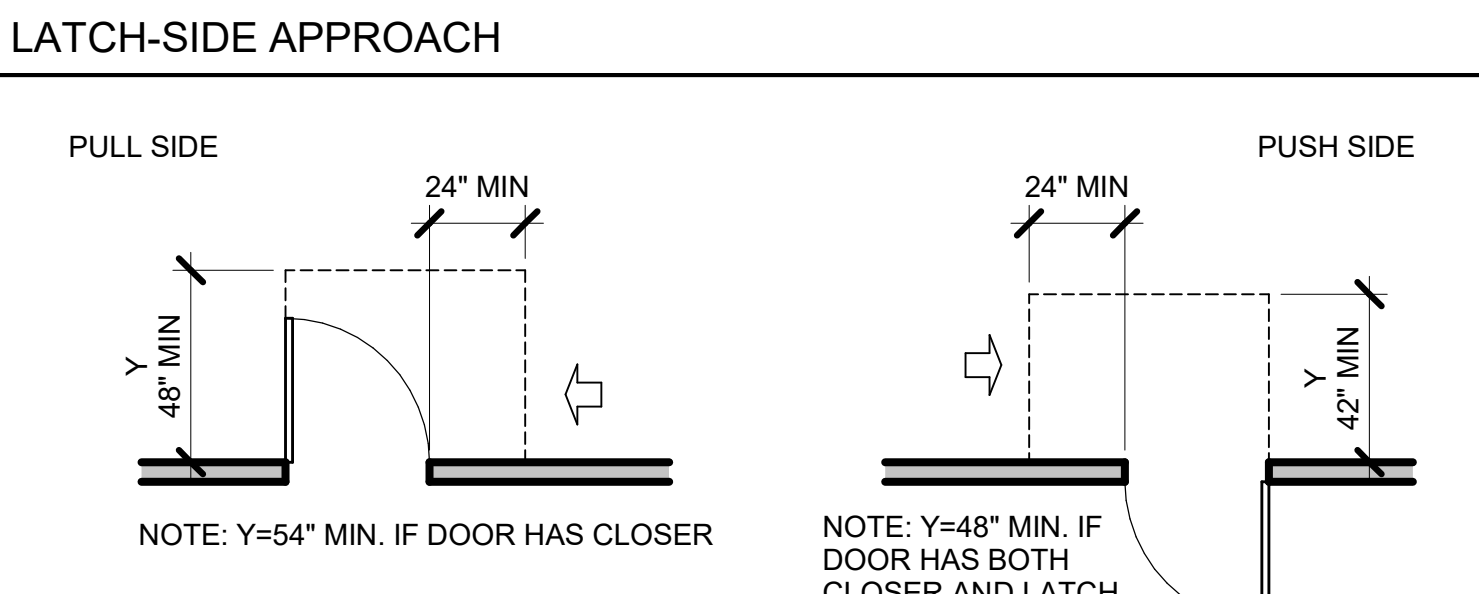
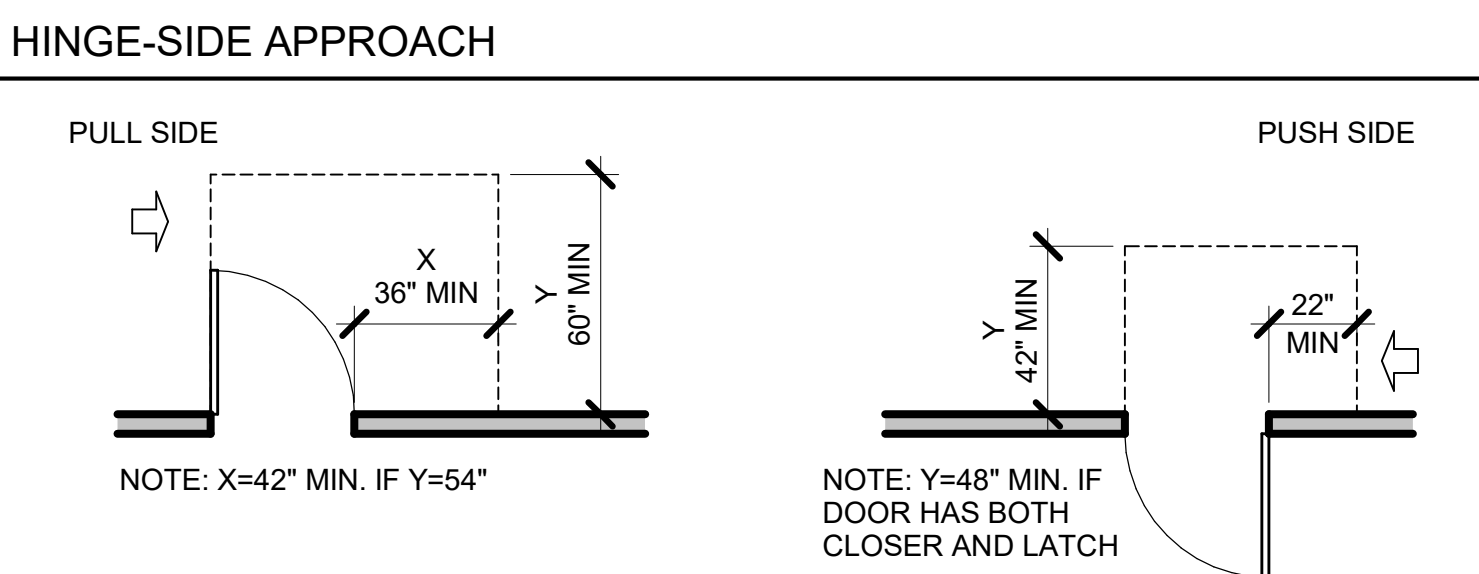
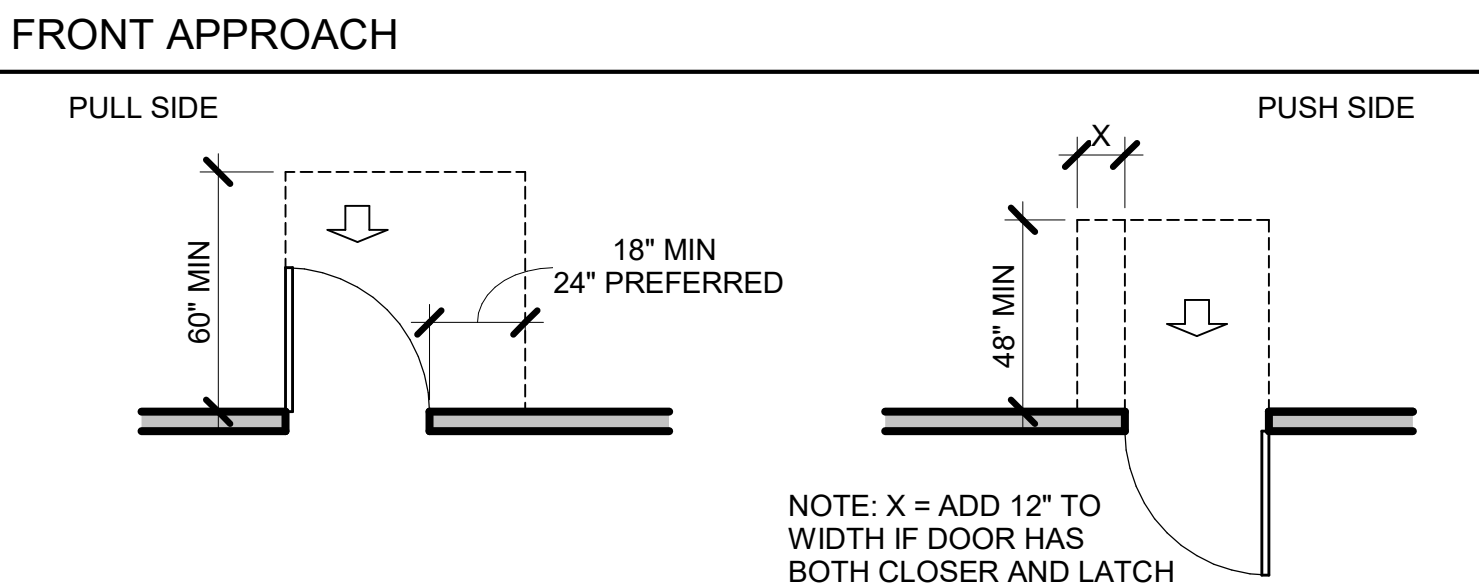
NOTE: LOCATE SIGN ALONGSIDE THE DOOR AT THE LATCH SIDE, WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH ONE ACTIVE LEAF, THE SIGN SHALL BE LOCATED ON THE INACTIVE LEAF. WHERE A TACTILE SIGN IS PROVIDED AT DOUBLE DOORS WITH TWO ACTIVE LEAFS, THE SIGN SHALL BE LOCATED TO THE RIGHT OF THE RIGHT HAND DOOR, WHERE THERE IS NO WALL SPACE AT THE LATCH SIDE OF A SINGLE DOOR OR AT THE RIGHT SIDE OF DOUBLE DOORS, SIGNS SHALL BE LOCATED ON THE NEAREST ADJACENT WALLS. CONTAINING TACTILE CHARACTERS SHALL BE LOCATED SO THAT A CLEAR FLOOR SPACE OF 18"x18" MIN, CENTERED ON THE TACTILE CHARACTERS, IS PROVIDED BEYOND THE ARC OF ANY DOOR SWING BETWEEN THE CLOSED POSITION AND 45 DEGREE OPEN POSITION. WHEN MOUNTED, RAISED CHARACTER BASE LINES MUST FALL BETWEEN 48" AND 60" AFF.



B3 DEVICE ALIGNMENT DIAGRAM
SCALE: 3/8" = 1'-0"



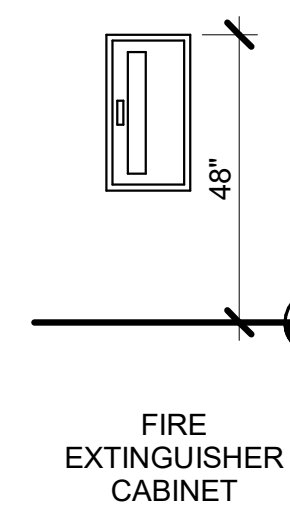
E5 ADA CLEARANCES
SCALE: 3/8" = 1'-0"



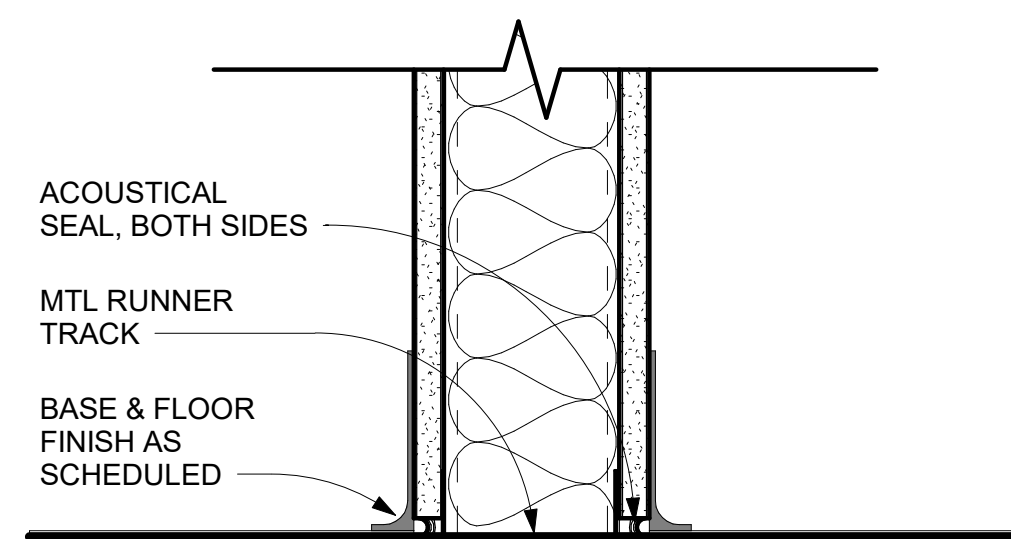
B5 DOOR CLEARANCES
SCALE: 1/4" = 1'-0"

GENERAL PARTITION NOTES

- STUD DESIGN CRITERIA: ALL INTERIOR, NON-LOAD BEARING METAL STUDS SHALL BE 20 GAUGE (MIN.) UNLESS OTHERWISE NOTED. PROVIDE 5 PSF MIN. APPLIED LATERAL LOAD, L/240 MAX. DEFLECTION.
- ALL FIRE RATED PARTITIONS MUST EXTEND AND SEAL TO STRUCTURE ABOVE.
- INSTALLATION OF GYPSUM BOARD, BACKER BOARD AND BASE BOARD SHALL CONFORM TO REQUIREMENTS FOR FIRE RATINGS AND ACOUSTICAL RATINGS.
- PROVIDE WATER RESISTANT TYPE GYPSUM BOARD AT AREAS THAT ARE NOTED IN ROOM FINISH SCHEDULE TO RECEIVE CERAMIC OR PORCELAIN TILE FINISH INCLUDING RESTROOMS.
- PROVIDE 5/8" GYPSUM BOARD UNLESS OTHERWISE NOTED.
- PROVIDE 5/8" TYPE X GYPSUM BOARD AT FIRE RATED PARTITIONS.
- METAL STUD GAUGE (IF NOTED) AND UL TEST NUMBERS WILL VARY DEPENDING ON THE MANUFACTURER OF COMPONENTS ACTUALLY USED.
- PENETRATIONS IN RATED PARTITIONS AND CONNECTIONS OF THE PARTITIONS TO OTHER PORTIONS OF THE WORK SHALL BE IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDED DETAILS AND IN COMPLIANCE WITH APPLICABLE TESTING AGENCY REQUIREMENTS.
- INSTALL BLOCKING OR BACKER MATERIAL FOR ATTACHMENT / MOUNTING OF WALL HUNG ITEMS, ACCESSORIES, FIXTURES, FURNITURE OR EQUIPMENT DESCRIBED IN THE DOCUMENTS. PROVIDE BLOCKING TO MATCH THE OVERALL HEIGHT AND WIDTH OF ALL WALL MOUNTED MONITORS AND TVS.
- WHEN INSTALLING GYPSUM BOARD, CONTRACTOR SHALL COMPLY WITH REQUIREMENTS OF THE MOST CURRENT EDITION OF THE GYPSUM ASSOCIATION "GA-600" FIRE RESISTANCE DESIGN MANUAL AND THE MOST CURRENT EDITION OF THE UL FIRE RESISTANCE DIRECTORY.
- PARTITIONS THAT ARE REQUIRED TO EXTEND TO THE DECK ABOVE SHALL HAVE THE GYPSUM BOARD CUT TO FIT WITHIN A 1/4" MAXIMUM TOLERANCE TO THE SHAPE OF THE DECK ABOVE. GYPSUM BOARD SHALL BE CONTINUOUSLY SEALED FOR THE FULL DEPTH OF THE GYPSUM BOARD WITH FLEXIBLE SEALANT.
- GYPSUM BOARD SHALL BE CUT SO THAT THE CLEARANCE BETWEEN METALLIC ELECTRICAL OUTLET BOXES AND THE GYPSUM BOARD DOES NOT EXCEED 1/8".
- THE BOTTOM OF THE GYPSUM BOARD AT INTERIOR PARTITIONS SHALL BE 1/4" MINIMUM AND 1/2" MAXIMUM ABOVE THE CONCRETE FLOOR SLAB AND SHALL BE SEALED FOR THE FULL DEPTH OF THE GYPSUM BOARD WITH FLEXIBLE SEALANT.
- REFER TO THE LIFE SAFETY FLOOR PLANS FOR EXTENT OF FIRE WALL RATINGS.
- ALL ELEMENTS OF ACOUSTIC RATED PARTITIONS SHALL EXTEND TO ROOF STRUCTURE OR FLOOR DECK ABOVE.
- PARTITION TYPES DESCRIBE GENERAL REQUIREMENTS FOR PARTITIONS. REFER TO THE MANUFACTURER'S SPECIFICATIONS AND REQUIREMENTS OF APPLICABLE TESTING AGENCIES FOR SPECIFICS OF PARTITION CONSTRUCTION.
- WHERE A CLEAR DIMENSION OR OPENING IS REQUIRED OR NOTED, MEASURE DIMENSION TO FACE OF PARTITION FINISH.
- REFER TO INTERIOR FINISH SCHEDULE FOR ALL WALL FINISHES.
- ALL FIRE AND/OR SMOKE BARRIERS OR WALLS SHALL BE EFFECTIVELY AND PERMANENTLY IDENTIFIED WITH SIGNS OR STENCILING ABOVE A DECORATIVE CEILING AND OR IN CONCEALED SPACES WITH LETTERS A MINIMUM OF TWO (2) INCHES HIGH ON A CONTRASTING BACKGROUND SPACED A MAXIMUM OF TWELVE (12) FEET ON CENTER WITH A MINIMUM OF ONE PER WALL OR BARRIER IN ACCORDANCE WITH MODIFICATIONS OF THE 2006 STANDARD FIRE PREVENTION CODE, 120-3-3, CHAPTER 5 OF THE RULES AND REGULATIONS OF THE FIRE SAFETY COMMISSIONER. THE HOURLY RATING SHALL BE INCLUDED ON ALL RATED BARRIERS AND WALLS. SUGGESTED WORDING ("-) HOUR FIRE AND SMOKE BARRIER - PROTECT ALL OPENINGS.



A1 MOUNTING HEIGHTS
SCALE: 3/8" = 1'-0"



A3 BOTTOM OF WALL DETAIL
SCALE: 3" = 1'-0"



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Cumming, GA 30040



**FORSYTH COUNTY WATER
SEWER
SUITE 150
FORSYTH COUNTY**
110 E MAIN STREET
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PRINT RECORD

No.	DATE	DESCRIPTION
1	11/04/2021	Permit Drawings

Drawn By EJ
Checked By JDG

Date 11/04/2020
Job No. 20005

Sheet Title
**ADA REGULATORY
DETAILS, DIAGRAMS
& PARTITION TYPES**

Sheet No.

G-1.01

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PROJECT SPECIFICATIONS

PROJECT SPECIFICATIONS

00 50 00 GENERAL CONDITIONS

"The General Conditions of the Contract for Construction", AIA Document A201, 2007 edition, of the American Institute of Architects, is made a part of these Contract Documents in its entirety.

01 20 00 PRICE AND PAYMENT PROCEDURES

A. Applications for Payment shall utilize AIA G702, "Application and Certificate for Payment" including required continuation sheets. Approved Schedule of Values shall be used in the same format and values.

B. Submit three copies of each application.

C. When Architect or Owner's Representative requests substantiating information, submit data justifying dollar amounts in question.

D. Submit to the Architect or Owner's Representative for review and approval a Schedule of Values, at least ten consecutive business days prior to submitting first Application for Payment, utilizing AIA Document G703, "Continuation Sheet".

E. Use Project Specification headings as basis for format for listing costs of work under Divisions 02 - 49. Additional breakdown of work in certain sections may also be provided or required if needed or requested by the Architect or Owner's Representative.

01 30 00 ADMINISTRATIVE REQUIREMENTS

A. Contractor shall schedule and administer pre-construction meeting, periodic progress meetings, and specially called meetings throughout the work progress.

B. In order to provide for a regular review and evaluation of the Work and a systematic discussion of problems, the Owner's representative, Architect (if included in CA scope) and General Contractor shall meet at a mutually agreed schedule during the construction period. Representatives of contractor, subcontractors, and suppliers shall attend on an as needed basis. Contractor shall prepare agenda for meetings, make physical arrangements, preside, record minutes, and distribute copies of minutes within three days to those in attendance, those affected by decisions, the Owner's Representative, and the Architect, if he is involved during the construction.

C. Owner and Architect may attend meetings to ascertain work is expedited consistent with Contract Documents and construction schedules.

D. The Contractor's relations with his subcontractors and materials suppliers and discussions relative thereto, are the Contractor's responsibility and will not be part of the project meeting content.

E. To the maximum extent practicable, meetings will be held at the job site.

F. Contractor shall apply Contractor's stamp, signed or initialed in blue ink, certifying that review, approval, verification of products required, field dimensions, adjacent construction work, and coordination of information is in accordance with the requirements of the work and contract documents.

G. Submit sufficient quantities of project data and shop drawings for Architect or Owner's Representative to retain two copies and for one copy to be retained by Contractor and turned over to the Owner at the completion of the Project.

H. Submit sufficient quantities of samples for Architect or Owner's Representative to retain one copy. Review of submittals is only for conformance with design concept of Project and information in Contract Documents.

I. Maintain an orderly file of submittals bearing the Architect's or Owner's Representative's review stamp for the Project duration at Project site and deliver to Owner as part of Project closeout documents.

J. Maintain at the site for the Owner, one record copy of drawings and specifications, addenda, change orders, construction change directives, approved shop drawings, product data, and samples, field test reports, and RFI documents.

K. Store in Contractor's field office in file cabinets or racks for storage of documents. Using record documents for construction purposes is prohibited. Label each document "PROJECT RECORD" in large printed and legible letters.

L. If applicable, on drawings legibly mark to record actual construction including depth of foundations, vertical and horizontal locations of underground utilities, field changes of dimension or detail, and any other changes including change orders.

M. It is the responsibility of the General Contractor to maintain the "as built" set of contract documents. These will serve as the as-built record recording all field built conditions and made part of the closeout package.

01 32 16 CONSTRUCTION PROGRESS SCHEDULE

A. Promptly after award of Contract, Contractor shall prepare and submit to Architect or Owner's Representative estimated construction progress schedules for construction activities.

B. A formal "Notice to Proceed" will be issued to mark commencement of project.

C. Progress schedules shall include complete sequence of activity, dates for beginning and completion of each element; show accumulated percentage of each item's completion and total percentage of work completed.

D. Submit initial schedule with 15 days of Contract award. Submit revisions as needed to show major changes in scope or other identifiable changes.

E. Contractor shall submit samples, shop drawings, and product data to Architect or Owner's Representative as required by the specification sections below.

01 40 00 TESTING LABORATORY SERVICES

A. If required for the project, the Owner shall employ and pay for services of independent testing laboratory acceptable to Architect or Owner's Representative to perform specified services and testing.

01 43 30 SPECIAL INSPECTIONS

A. If required for the project, the Owner will retain the services of a qualified licensed Architect or Engineer to serve as "Special Inspector(s)" to perform inspections pursuant to the Statement of Special Inspections scheduled on the drawings. Approved Special Inspector(s) shall provide testing and verification reports to Owner, architect, building official, and structural engineer of record which indicate the inspected work was done in conformance with approved construction documents.

01 50 00 TEMPORARY FACILITIES, CONTROLS, AND UTILITIES

A. Temporary construction office - provide all temporary facilities as required to build this project with sufficient space for Contractor's personnel, telephone/fax, and office space complete with desk and layout board.

B. Temporary storage facilities - if required, provide with weathertight, secure storage sheds or trailers, type and size required for storage. Locate where directed by Owner. Owner is not responsible for securing the temporary storage facility and any theft or loss that may occur.

C. Electrical service - Terms to be discussed prior to execution of contact between Owner and General Contractor. Electrical for construction purposes may be obtained from Owner's present facility, coordinate with Owner's Representative. Provide temporary lighting for construction purposes as required by OSHA or local code.

D. Telephone/Wi-Fi/Fax - provide telephone, telephone message service, Wi-Fi and fax service to the temporary construction office.

E. Temporary heat and ventilation - Maintain spaces in range of 60o F to 80o F, unless product manufacturer for a particular product calls for more stringent requirements. Interior renovation within an existing building, maintain spaces in range of 60o F to 80o F, unless product manufacturer for a particular product calls for more stringent requirements.

F. Water service - Terms to be discussed prior to execution of contact between Owner and General Contractor. Water for construction purposes may be obtained from Owner's present facility, coordinate with Owner's Representative.

G. Sanitary toilet facilities - Provide and maintain temporary toilet facilities and enclosures for construction personnel. Using permanent new or existing facilities in the building is prohibited by construction personnel.

H. Project sign - order and erect or position sign as requested by Owner's Representative, or as indicated in the Construction Documents. Coordinate location with Owner's Representative.

01 60 00 PRODUCT REQUIREMENTS

A. Provide new products unless specifically required or permitted by Contract Documents.

01 70 00 EXECUTION AND CLOSEOUT REQUIREMENTS

A. Clean-up during construction - execute cleaning procedures to ensure building interior, project site, and adjacent properties are maintained free from construction debris and rubbish. Maintain site, both exterior and interior, in clean and orderly condition. Provide covered, on-site containers for waste collection.

B. Final cleaning - clean finish surfaces in accord with manufacturer's product data and requirements specified in sections not more than 48 hours prior to Date of Substantial Completion. Remove dust, debris, oils, stains, fingerprints, manufacturer's product labels and temporary labels from exposed interior and exterior finish surfaces, include washing and polishing interior and exterior glazing materials, vacuum carpeted and soft surfaces. Broom clean paved surfaces. Protect, maintain and clean inside of all HVAC supply and return ductwork free from dust and debris, and install new clean set of HVAC system filters not more than 48 hours prior to Date of Substantial Completion. Clean plumbing fixtures. Replace spent lamps and bulbs and clean lighting fixtures to "like-new" condition.

C. Submit operation and maintenance manuals - submit at issuance of Date of Substantial Completion or 15 days prior to final inspection whichever date is earlier. Submit in duplicate, in 8 1/2" x 11-inch format in D size ring binders with plastic covers including an electronic version of all documents in PDF format on a CD. Internally divide with permanent page dividers logically organized. Include:

1. Part 1 - Directory: list names, addresses, telephone numbers of Architect, Contractor, subcontractors, major equipment suppliers, and local service for major equipment.

2. Part 2 - Operation and Maintenance Instructions: arrange by system further subdivided by specification section and include significant design criteria, equipment list, component parts list, operating instructions and maintenance instructions.

3. Part 3 - Project Documents and Certificates: include shop drawings and product data, air balance reports, certificates, and photocopies of warranties and bonds.

D. Certificates from governing code authorities/AHJ indicating construction has been inspected as required by laws or ordinances and building is approved for occupancy.

E. Warranties - Provide executed warranty in writing, indicate Date of Substantial Completion and warranty expiration date. Warranty period begins on Date of Substantial Completion and continues for one year unless otherwise indicated in individual specification sections or otherwise provided by individual manufacturers' warranties.

F. Record Documents - Provide set of Record Documents with final Application for Payment. This includes a scanned copy of the as-built set of contract documents identifying, including but not limited to, all Bulletins, RFIs's Change Orders and field conditions.

G. Tools, equipment, spare parts, extra material, attic stock and related items as required in specification sections at final Application for Payment.

H. Fire extinguishers - Verify extinguishers are charged and ready for use, provide attached tag indicating date tested and by whom.

I. Keys - Construction keying shall be voided or change out cylinders that utilize construction keying. Deliver at Date of Substantial Completion to Owner's Representative keys with each tag indicating lock which key operates. The Owner shall provide the General Contractor with Keying schedule unless directed otherwise by the Owner.

J. Maintenance training - provide a training class for each of the primary systems. Training class shall include Owner and/or Owner's designated representative. General Contractor shall video tape training class for archiving and reference by the Owner and/or Owner's designated representative.

FOR THE FOLLOWING MATERIAL SPECIFICATIONS, REFERENCE AND COMPLY WITH THE MANUFACTURER'S PRODUCT LITERATURE, SPECIFICATIONS, AND WRITTEN INSTRUCTIONS ON INSTALLATION UNLESS OTHERWISE NOTED.

02 41 00 BUILDING DEMOLITION

A. Comply with the most recent applicable codes for demolition of structures, safety of adjacent structures, noise control, and dust control. Obtain required permits, notify affected utility companies and comply with their requirements, conform to regulatory procedures when hazardous or contaminated materials are discovered, and do not close or obstruct roadways without permits.

B. Suspend operations immediately if hazardous or contaminated materials such as asbestos or polychlorinated biphenyl, not previously rendered harmless, are encountered, contact Architect and Owner in writing. Do not resume operations until directed, hazardous or contaminated materials have been rendered harmless, and conditions are agreed to by Owner and Contractor in writing.

C. Provide and maintain temporary barriers and security procedures as required to protect property and people and to meet the requirements of the General Conditions. Protect existing landscaping, appurtenances and structures that are not to be demolished. Prevent movement or settlement of adjacent structures. Provide bracing and shoring. Mark location of all utilities prior to proceeding with scope of work.

D. Minimize interference with adjacent structures and public or private access. Maintain protected egress and access at all times. Obtain written permission from adjacent property Owners when demolition equipment will traverse or infringe upon their property. Suspend operations immediately if adjacent structures appear to be in danger, contact Architect and authority having jurisdiction, do not resume operations until directed. Provide hoses and water connection to sprinkle demolition area with water to minimize dust. It is the sole responsibility of the General Contractor to confine dust and odors to construction area and quickly remediate any breeches in containment.

06 10 00 ROUGH CARPENTRY

A. Lumber shall be #2 Southern Pine or Western Lumber. Miscellaneous furring and nailers shall be utility grade Southern Pine. Nailers and blocking associated with roofing and flashing systems shall be preservative and fire-retardant treated. Exterior plywood shall be CC-EXT-APA, Group I. Interior plywood shall be A-D, INT-APA, Group 1. Fire-retardant-treated wood.

B. Provide concealed blocking, nailers, and supports for securing applied fixtures and fittings; specific items to be indicated on the drawings.

C. Provide concealed blocking, nailers, and supports for securing base cabinets and wall mounted cabinets to partitions. Reference drawings for locations of base and wall mounted cabinets.

D. Provide concealed blocking, nailers, and supports for securing video/t.v./monitors to partitions. Reference drawings for locations of wall mounted video/t.v./monitor locations.

E. Backboards at phone equipment shall be 3/4" fire treated plywood, painted face and all exposed edges. Sand, prime and ease all edges prior to painting.

F. Nailing schedule shall be in accord with current edition of International Building Code.

G. Install rough carpentry work cut square on bearings, closely fitted, accurately set to required lines and levels and secured in place. Brush apply preservative treatment to cut ends of treated lumber. Coordinate location of blocking and nailers with locations of finishing materials, fixtures, specialty items and trim. Install plywood with face grain perpendicular to supports. Terminate panels over supports, allowing 1/8" between end joints and 1/4" between edge joints for expansion and contraction.

06 20 00 FINISH CARPENTRY

A. Coordinate and install millwork provided by Tenant, and as indicated on drawings.

B. Installer must have a minimum of five years' experience in the same field and be able to demonstrate successful projects that meet the specified AWI grade.

C. Source Quality Control: Obtain materials for each type, including veneer doors, from a single manufacturer or source so as to ensure matching of quality, color, grain, and finish.

D. Quality standards for the following types of architectural woodwork, "Premium Grade" except as modified, as follows:

1. Standing trim, running trim, and rails: AWI Section 300, Custom Grade.
2. Architectural cabinets, laminate clad: AWI Sections 400 for Flush Overlay and 400B, Premium Grade.
3. Architectural cabinet tops: AWI Sections 400 for High Pressure Decorative Laminate tops and 400C, Custom Grade.
4. Shelving: AWI Section 600, Custom Grade.
5. Paneling: AWI Section 700.
6. Miscellaneous ornamental items: AWI Section 700.
7. Stile and rail doors: AWI Section 1400.
8. Factory Finishing: AWI Section 1500.

E. Wood Treatment: Where fire-retardant treated woodwork is indicated, use approved fire-retardant treatment that will not adversely affect the desired finish and appearance.

F. Project Conditions: Stabilize humidity and temperature at normal operating Conditions at least seven (7) calendar days prior to installation and thereafter.

G. Installation: Meet AWI standards for quality standards and premium construction for tolerances. Scribe and cut work to fit adjoining work, refinish cut surfaces and repair damaged finish at cuts. Anchor casework to anchors or blocking built-in or directly attached to substrate. Secure to grounds, stripping, and blocking with countersunk concealed fasteners and blind nailing as required for a complete installation.

H. Lumber (Verify all species selections with drawings):

1. Exposed and semi-exposed painted millwork and trim: Custom Grade Poplar or Custom Grade White Pine, kiln dried.

2. Interior standing and running trim: Custom Grade Poplar or Custom Grade White Pine, kiln dried. Install in single, unjointed lengths for openings and runs less than 16'-0". Stagger joints in adjacent members. Cope at returns, miter at corners.

I. Hardware

1. Door and drawer pulls to be 4" matt nickel stainless steel.
2. Concealed hinges to be Grade 2 (Institutional duty), 170 degrees opening
3. Door and drawer locks: provide elbow catches on un-keyed leaf of pair of doors. If electronic push button, provide battery operated with low battery indicator.
4. Drawer Slides to be full extensions slides; 100lb per slide per standard drawer, 150lb per slide per standard file drawer and 250lb per lateral file drawer.
5. Shelf standards to be same color as cabinet interior.

J. Countertops shall have 1-1/2" radiused corners as indicated on drawings, U.N.O.

07 21 00 THERMAL INSULATION

A. Batt insulation shall be fiberglass batts width equal to framing spacing, kraft face, ASTM C665, Type II, Class C, 1.0 perm rating, R-13 in walls.

B. Rigid extruded polystyrene insulation shall be extruded, closed cell, CFC-12 free, polystyrene boards meeting ASTM C578, Type IV for use in perimeter and other applications, thickness 2" or as scheduled on drawings.

C. Safing Insulation - shall be unfaced, semi-rigid, 4 pcf minimum. Install in cavities of all floor-to-floor penetrations; include spaces around piping and duct penetrations. Foam safing may be used in lieu of safing insulation.

D. Sound insulation - refer to Section 09 21 16 Gypsum Board Assemblies.

E. Provide continuous 1/4" foam tape filler where walls meet window mullions. Provide double foam tape fill at demising wall between tenants, intersecting partitions and demising walls.

07 84 00 FIRE STOPPING

Fire stopping shall be single component self-adhering, flexible, water-tight, non-sag, elastomeric silicon or endothermic latex compound. Provide firestopping as required to maintain ratings at all penetrations through rated walls, partitions, floors and floor-ceiling assemblies. Fire-stopping to comply with Underwriters Lavatory testing numbers where apply.

07 90 05 SEALANTS AND CAULKS

Exterior joints and all other openings in the building shall be caulked, gasketed, weather-stripped, or sealed in an approved manner (ref. Georgia State Energy Code, Section 502.4). Seal all sound partitions with acoustical sealant at base, head, perimeter and all openings.

A. Silicone sanitary sealant, SSS-1, one-part silicone rubber, mildew and stain resistant, ASTM C920, Type S, Grade NS, Class 25. Use at plumbing fixture perimeters mounted on walls and top and edges of backsplashes at countertops.

B. Two-part non-sag polyurethane sealant, PSV2-1, two-part polyurethane based sealant with separate prepackaged color agent to achieve colors, ASTM C920, Type M, Grade NS, Class 25. Use at exterior and interior door and window frames perimeter.

C. Caulking compound for setting thresholds and for other interior caulking shall be an oleo-resinous, gun grade, non-staining plastic compound meeting Federal Specification TT-T-598. Material shall have shrinkage factor not exceeding 15%.

D. Acrylic-latex caulk, ALC-1, flexible paintable, non-staining, non-bleeding acrylic emulsion, ASTM C834. Use at interior non-working cosmetic joints between similar and dissimilar adjacent materials.

E. Butyl caulk, BC-1, one part butyl rubber caulk, ASTM C1085, black. Use continuous double bead at sill or threshold of exterior swinging doors.

F. Backer rod, compressible rod stock closed cell foam, open cell foam, soft cell foam, or neoprene foam, type recommended by sealant manufacturer for material compatibility and conditions encountered.

08 11 00 STEEL DOORS AND FRAMES

A. Exterior steel doors and frames to be Building Standard.

B. Materials include steel, ASTM A366, cold rolled steel sheet free of scale, pitting, or surface defects; exterior frames and doors, ASTM A525, zinc coated, coating designation G60; and primer, one coat manufacturer's standard baked-on enamel rust-inhibitive primer to pin hole free.

C. Frame construction shall be factory primed, pressed steel, frames for doors and other indicated openings. Exterior door frames shall be 16-gauge, face welded, seamless with joints filled and weather-stripping per Section 08710. Interior frames shall be knock down "KD" type frames, and 16-gauge. All frames shall have labels for labeled openings as required, with standard rubber, neoprene, or silicone silencers.

D. Provide manufacturer's standard frame anchors for attachment to studs at 20" o.c. max or fraction thereof on each jamb.

E. Door construction for exterior units shall be Grade II, Heavy Duty, seamless composite construction, 16-gauge material, with 20 PSI compressive strength foamed-in-place polyurethane core.

F. Submit manufacturer's product data and shop drawings indicating door and frame elevations, sections, materials, gauges, finishes, fabrication and erection details, location of finish hardware by dimension, and details of openings and louvers.

G. Provide metal drip at exterior door frames which have no alternative cover.

08 14 16 FLUSH WOOD DOORS

A. Industry standards are those of the National Wood Window and Door Association (NWWDA) and the Architectural Woodwork Institute (AWI). Fire-rated wood doors shall bear label of testing and approval by independent testing agency, having been tested in accord with UBC 7-2-1997 or UL 10-C for ratings indicated.

B. Wood doors shall be solid, particle board core, 1-3/4" thickness, meeting NWMA I.S.-1, minimum five-ply, 1-3/4" thickness. Core shall have min. 28 pcf density. Premium Grade, with "Plain-Sawn" White Oak" face veneers and edges; veneers book matched across door face; full length. Plastic laminate veneer doors shall consist of .050" high pressure decorative laminate. Conform to NEMA Standard LD-3-1980, Grade GP 50. Fire rated doors shall be rated as shown on the drawings, with factory installed labels. Fire rated doors shall have reinforced edges to accept full mortise hinges.

C. Execution: install doors in respective frames using specified hardware. Doors shall operate without binding or sticking at frames or floor. Maintain NWWDA and NFPA No. 80 standard tolerances.

D. Submit shop drawings indicating door species, finish, sizes, construction, and hardware locations.



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**FORSYTH COUNTY WATER
SEWER
SUITE 150
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110 E MAIN STREET
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PRINT RECORD

No.	DATE	DESCRIPTION
	11/04/2021	Permit Drawings

Drawn By Author	Checked By Checker
Date 11/04/2020	Job No. 20005

Sheet Title
SPECIFICATIONS

Sheet No.

G-3.01

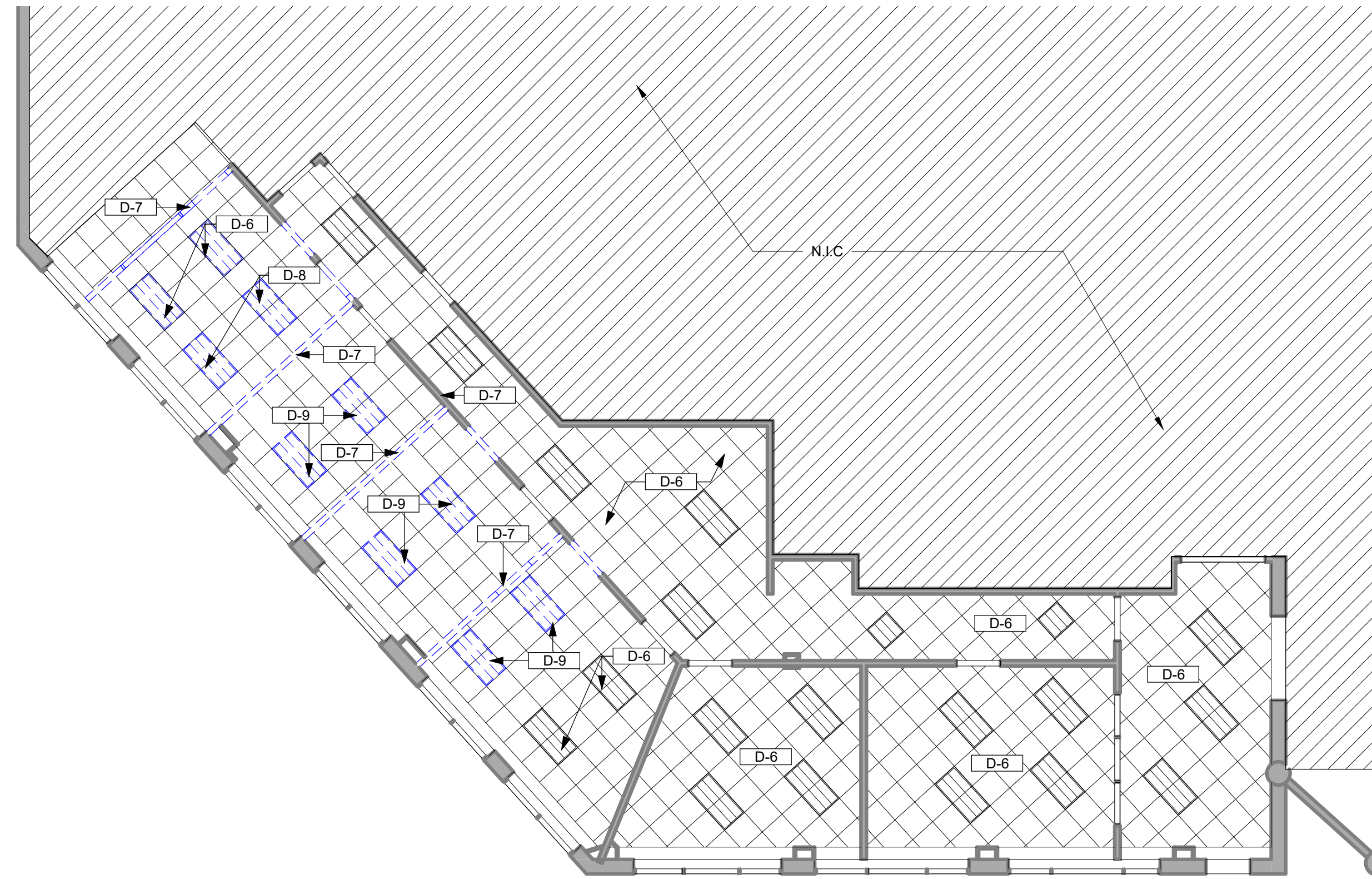
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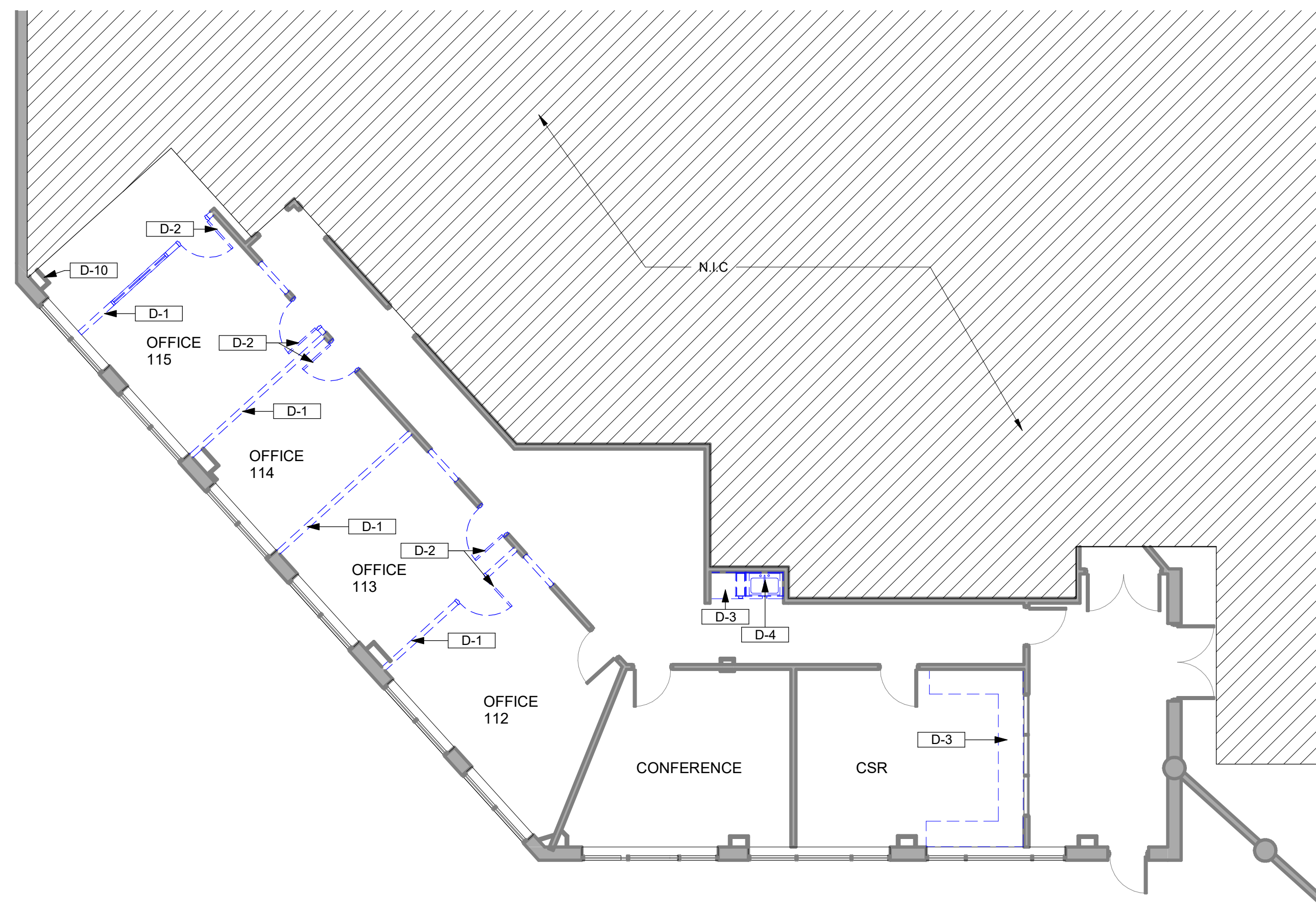
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2 DEMOLITION REFLECTED CEILING PLAN

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



1 DEMOLITION PLAN

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

KEY NOTES - DEMO	
KEY NOTE #	DESCRIPTION
D-1	DEMOLISH EXISTING PARTITIONS IN THEIR ENTIRETY TO EXTENTS INDICATED IN PREPARATION FOR NEW CONSTRUCTION. COORD. W/ ARCH, MECH, ELECTRICAL & PLUMBING DRAWINGS AND SPECIFICATIONS.
D-2	REMOVE EXISTING DOOR, FRAME & HARDWARE IN ITS ENTIRETY. STORE & PROTECT FOR RE-INSTALLATION AS NOTED ON PLANS AND DOOR SCHEDULE.
D-3	DEMOLISH EXISTING MILLWORK IN ITS ENTIRETY. EXISTING SECURITY GLASS AND TRANSACTION TO REMAIN. PREP AREA TO RECEIVE NEW.
D-4	DEMOLISH EXISTING PLUMBING. REFER TO MEP DRAWINGS FOR SPECIFICATIONS.
D-5	DEMOLISH PORTION OF WALL FOR NEW OPENING; PREP AREA FOR NEW WORK.
D-6	EXISTING CEILING SYSTEM, LIGHTING AND DEVICES TO REMAIN IN ITS ENTIRETY.
D-7	CONTRACTOR TO REPAIR EXISTING CEILING TILE OR REPLACE WITH NEW WHERE PARTITION WAS REMOVED. EXISTING LIGHTING AND DEVICES TO REMAIN.
D-8	DEMOLISH EXISTING LIGHTING IN ITS ENTIRETY. GC TO PROVIDE NEW CEILING TILE TO MATCH EXISTING.
D-9	REMOVE EXISTING LIGHTING IN ITS ENTIRETY. STORE & PROTECT FOR RE-INSTALLATION AS NOTED ON MEP DRAWINGS.
D-10	USER TO RELOCATE EXISTING TV MONITOR.

NOTE: REFERENCE MECHANICAL, ELECTRICAL & PLUMBING DRAWINGS & SPECS FOR ADDITIONAL DEMOLITION NOTES.



102 Mary Alice Park Road, Suite 103
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**FORSYTH COUNTY WATER
SEWER
SUITE 150
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 110 E MAIN STREET
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PRINT RECORD

No.	DATE	DESCRIPTION
11/04/2021	11/04/2021	Permit Drawings

Drawn By: EJ
Checked By: JDG

Date: 11/04/2020
Job No.: 20005

Sheet Title
DEMOLITION PLAN

Sheet No.

D-1.01

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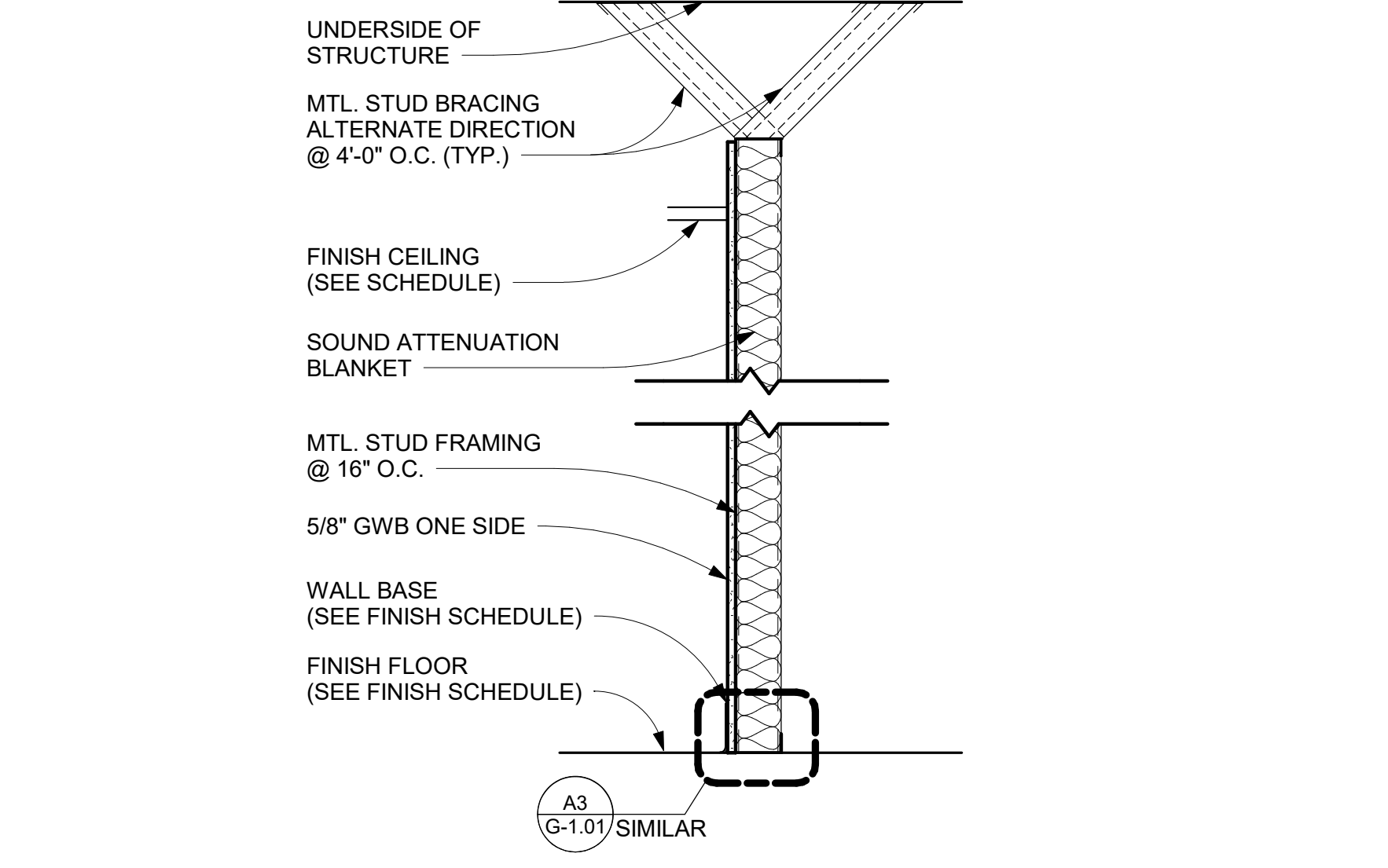
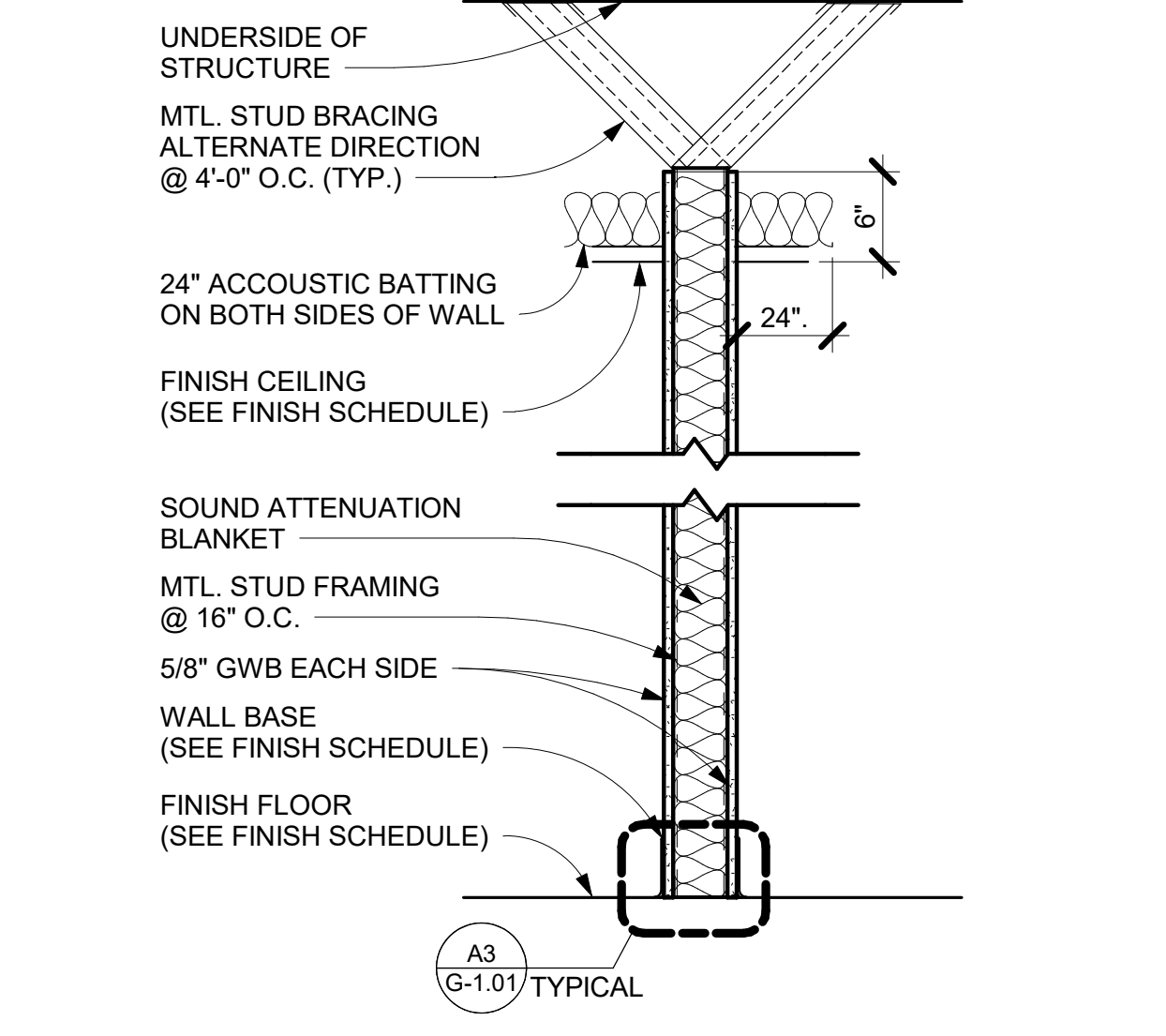
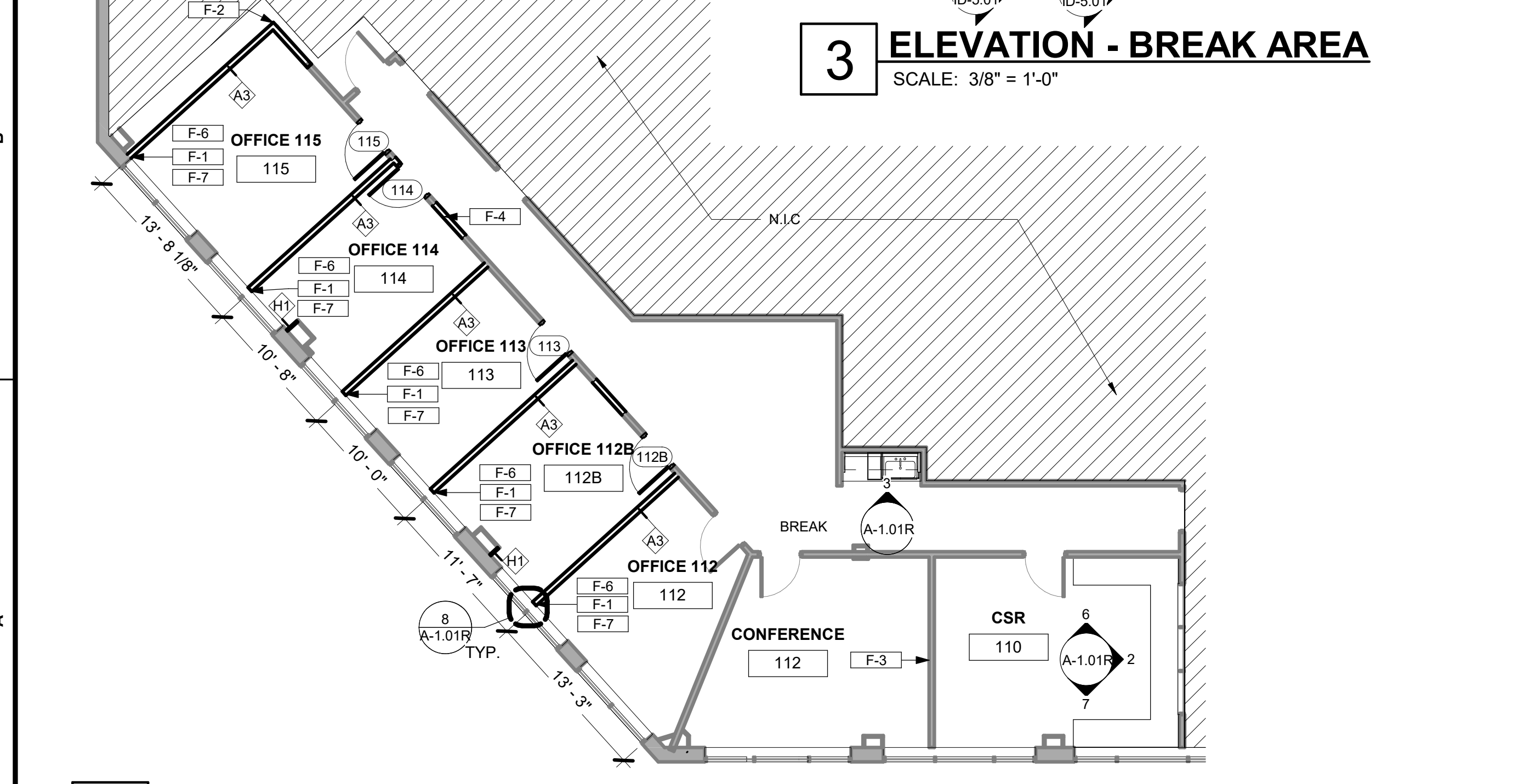
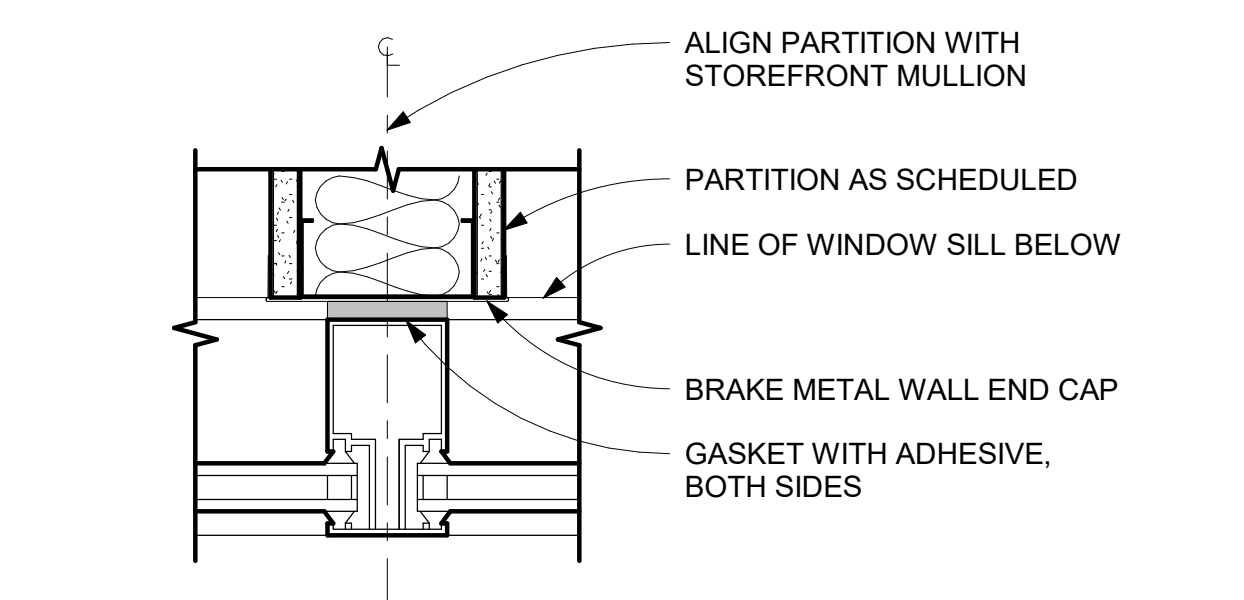
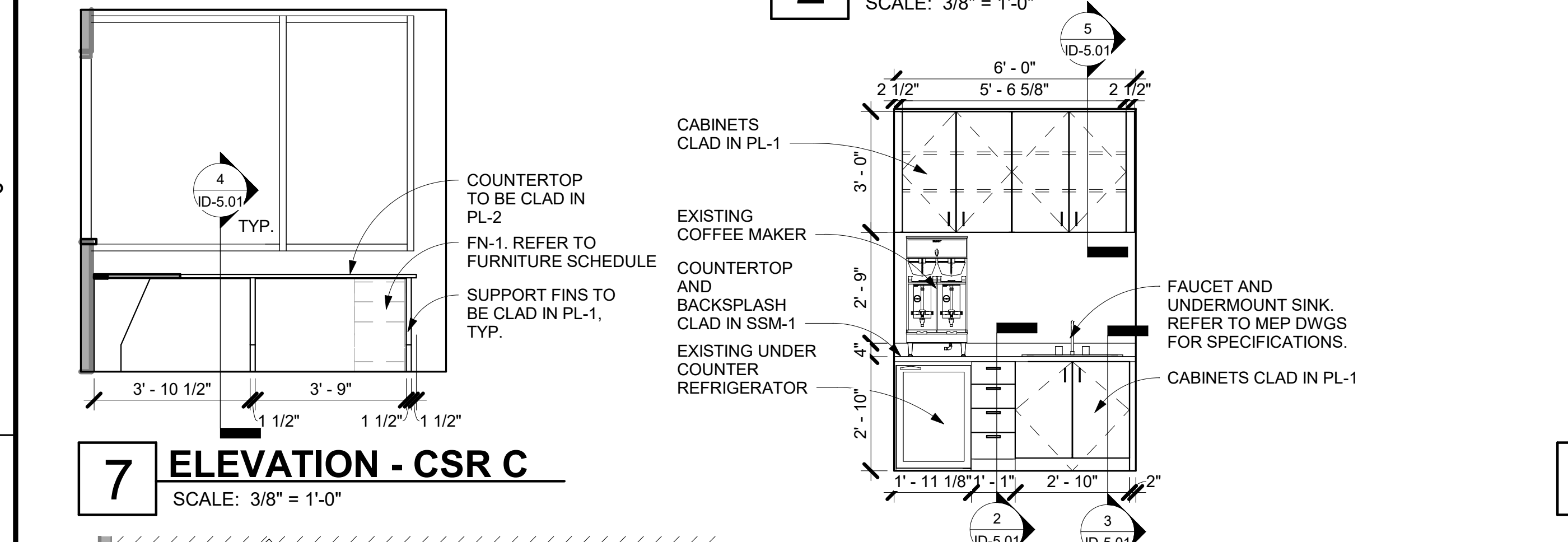
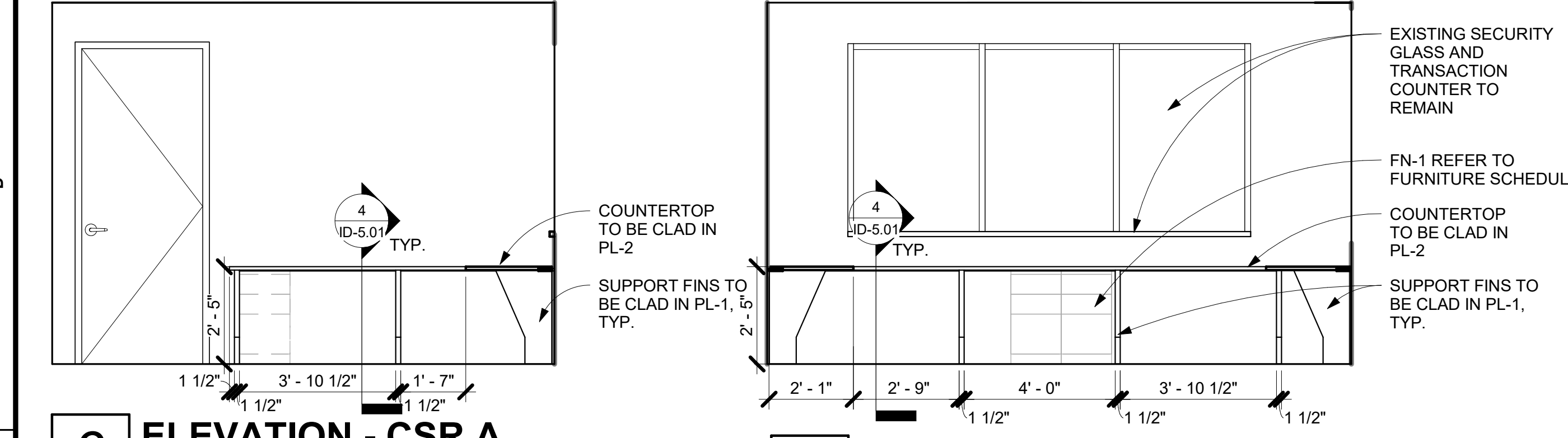
FINISH LEGEND		
FLOORING	WALLS	PLASTIC LAMINATE AND COUNTERTOPS
CPT-1: CARPET TILE, FIELD MFR: TANDUS CENTIVA COLLECTION: FREELANCE 11024 COLOR: 23801 SALT LAKE SIZE: 24" X 24" INSTALL: ASHLAR CONTACT:	P-1: GENERAL PAINT MFR: SHERWIN WILLIAMS, BASIS OF DESIGN COLOR: MATCH EXISTING FINISH: TWO (2) COATS LATEX P-2: TRIM PAINT MFR: SHERWIN WILLIAMS, BASIS OF DESIGN COLOR: MATCH EXISTING FINISH: TWO (2) COATS LATEX; TYPICAL FOR ALL INTERIOR DOOR FRAMES & MISC. TRIM	PL-1: PLASTIC LAMINATE MFR: PIONITE COLOR: SLATE SG228-SD FINISH: FINE INSTALL: CABINETS VERTICAL EDGES TO BE PVC EDGEBANDING TO MATCH PLASTIC LAMINATE; BY CHARTER INDUSTRIES, BASIS OF DESIGN PL-2: PLASTIC LAMINATE MFR: ARBORITE COLOR: WILLOW GREY, S-431 CA FINISH: MATTE FINISH INSTALL: COUNTERTOP & BACKSPLASH EDGES TO BE PVC EDGEBANDING TO MATCH PLASTIC LAMINATE; BY CHARTER INDUSTRIES, BASIS OF DESIGN SSM-1: SOLID SURFACE MFR: CAESARSTONE COLOR: COASTAL GREY #6003 FINISH: FINE INSTALL: COUNTERTOP & BACKSPLASH
BASE	WALL PROTECTION	
RB-1: RUBBER WALL BASE MFR: JOHNSONITE STYLE: 4" COVE COLOR: MATCH BUILDING STANDARD (EXISTING IN SPACE) LOCATION: AS SPECIFIED	WP-1: WALL PROTECTION CORNER GUARDS MFR: KOROGUARD, G100 BASIS OF DESIGN COLOR: TBD SIZE: 2" X 48" H	

- ### MILLWORK GENERAL NOTES
- REFER TO INTERIOR ELEVATIONS, WHICH IDENTIFY THE ROOM AND WALL (NORTH, SOUTH, EAST OR WEST) ON WHICH THE CABINETS IS LOCATED. COORDINATE ALSO WITH FLOOR PLANS.
 - SPECIALIZED CABINET SECTIONS ONLY ARE KEYPED OR NOTED ON CABINET ELEVATIONS. OTHER CABINET SECTIONS ILLUSTRATE TYPICAL CONSTRUCTION & NOT EVERY DOOR AND/OR DRAWER VARIATION IS SHOWN.
 - ALL WORKSURFACES & COUNTERTOPS ARE PL-2 U.N.O.
 - PROVIDE FINISHED END PANELS AND/OR END RETURNS AT OPEN ENDED CABINETS (INCLUDING KNEE SPACES).
 - PROVIDE PLAM CLAD TRIM AND FILLER PANELS WHERE EQUIPMENT IS LOCATED WITHIN CABINET UNITS.
 - PROVIDE SIDE SPLASHES WHERE COUNTERTOPS ABUT WALLS AT SIDES - U.N.O.
 - PROVIDE COUNTERTOP BRACE SUPPORTS AT 48" O.C. MAX. @ KNEE SPACES & LAVATORY COUNTERS, U.N.O.
 - PROVIDE 3" DIA. GROMMETS AT BACK OF COUNTERTOPS EXACT LOCATION TO BE COORDINATED WITH THE OWNER IN THE FIELD AT THE TIME OF INSTALLATION.
 - PROVIDE BLOCKING WITHIN PARTITION FOR ALL CABINETS ATTACHED TO WALLS. SEE DETAILS FOR ATTACHMENT DETAILS.
 - PROVIDE ALL STRAIGHT RUN COUNTERTOPS THAT HAVE SINKS, WITH SEPARATE BACKSPLASH TO COUNTERTOP.
 - FILE DRAWERS ARE NOTED ON ELEVATIONS. PROVIDE MINIMUM INSIDE CLEAR DIMENSIONS OF 13.5" WIDE BY 10.5" HIGH BY 20.5" DEEP.
 - CABINET UNIT DEPTH IS AS SHOWN ON SECTION, U.N.O. ON ELEVATION(S).
 - PROVIDE BOTTOM CLOSURE FOR FILLER PANELS AT TOE SPACES AND AT BOTTOM OF UPPER WALL CABINETS TO CLOSE OFF AND SEAL TIGHT ALL CONCEALED OPENINGS.
 - ALL MILLWORK/CASEWORK TO BE PL-1 U.N.O.
 - CABINET HARDWARE:
 - DOOR HINGES TO BE BLUM 71T5580 CHROMED, CONCEALED, SELF-CLOSING.
 - DRAWER SLIDES TO BE HEAVY DUTY ACCURIDE HAFELE #4034.
 - DRAWER PULLS TO BE MOCKETT DP55A STAINLESS STEEL OR APPROVED EQUALS

- ### FINISH PLAN GENERAL NOTES
- ALL INTERIOR FINISH SPECIFICATIONS ARE INCLUDED HEREIN OR IN THE ATTACHED SPECIFICATIONS IF APPLICABLE. DISCREPANCIES, OMISSIONS AND DISCONTINUATION OR DELAYED MATERIALS ARE TO BE REPORTED TO THE DESIGN PROFESSIONAL IMMEDIATELY FOR RESOLUTION PRIOR TO PROCEEDING. THE DESIGN PROFESSIONAL IS NOT RESPONSIBLE FOR DISCREPANCIES OR OMISSIONS THAT ARISE DUE TO CHANGES BY ANOTHER PARTY AFTER INITIAL DRAWING ISSUANCE DATE UNLESS RECORDED AS A REVISION BY ARCHITECT.
 - SUBSTITUTIONS OF FINISH MATERIALS MUST BE SUBMITTED IN WRITTEN FORM AND ACTUAL SAMPLES PROVIDED FOR REVIEW BY THE DESIGN PROFESSIONAL AND USER GROUP. CONSTRUCTION PROFESSIONAL MUST PROVIDE APPROVAL SIGNATURE BEFORE PROCEEDING. REVIEW OF SUBSTITUTIONS DUE TO A CHANGE IN THE ORIGINAL SCHEDULE OR BUDGET MAY BE CONSIDERED ADDITIONAL SERVICES.
 - INSTALL ALL FINISH MATERIALS ACCORDING TO MANUFACTURER'S INSTRUCTIONS. REMEDIATION OF MOISTURE IN THE CONCRETE, AS IT RELATES TO THE FLOORING MATERIAL AND ITS INSTALLATION MUST BE STRICTLY ADHERED TO IN ORDER TO AVOID RISK OF VOIDING WARRANTY.
 - ONLY ONE DYE-LOT OF EACH STYLE AND COLOR SPECIFIED IN THE FINISH SCHEDULE SHALL BE USED.
 - REMOVE FINISH MATERIALS FROM PACKING AND ALLOW TO ACCLIMATE TO AREA OF INSTALLATION ACCORDING TO MANUFACTURER'S SPECIFICATIONS.
 - ALL SURFACES WHICH ARE TO RECEIVE A FINISH APPLICATION SHALL BE COMPLETELY SMOOTH FOR SCHEDULE FINISH MATERIAL.
 - ALL MISCELLANEOUS GRILLES, PLATES, ETC. OCCURRING ON WALLS OR CEILINGS ARE TO BE FINISHED TO MATCH WALL OR CEILING ON WHICH THEY OCCUR. CONSULT DESIGN PROFESSIONAL ON FINAL FINISH.
 - ALL PAINTED SURFACES ARE TO RECEIVE ONE PRIME COAT AND A MINIMUM OF TWO FINISH COATS. APPLY ADDITIONAL COATS OF PRIME AND FINISH PAINT AS REQUIRED UNTIL EXISTING UNDERCOAT OR OTHER CONDITIONS ARE FULLY CONCEALED AND PAINT FILM IS OF A UNIFORM FINISH, COLOR AND APPEARANCE. REFER TO SPECIFICATION SECTION 095123 INTERIOR PAINTING FOR CLARIFICATION.
 - PAINT FOR DOOR FRAMES AND DOORS WHEN APPLICABLE, WILL BE SHERWIN WILLIAMS PRO-CLASSIC WATERBORNE ACRYLIC SEMI-GLOSS B-31 SERIES, BASIS OF DESIGN.
 - PRIOR TO FLOORING INSTALLATIONS, PERFORM A CALCIUM CHLORIDE MOISTURE TEST TO ENSURE MOISTURE CONTENT MEETS MANUFACTURER'S ACCEPTABLE LEVELS. CONSTRUCTION PROFESSIONAL TO DOCUMENT AND MAINTAIN RECORDS.
 - INSTALL CARPET USING PRESSURE SENSITIVE ADHESIVE
 - FLOORING TRANSITIONS WILL OCCUR UNDER CENTERLINE OF DOOR IN CLOSED POSITION., U.N.O.
 - WHERE FLOORING MATERIALS OF DIFFERING THICKNESSES MEET, LEVEL AS REQUIRED TO MEET ADA GUIDELINES AND SMOOTH AS REQUIRED.
 - INSTALL REDUCER STRIPS WHERE CARPET TRANSITIONS TO HARD FLOORING, U.N.O., INSTALL VINYL REDUCER STRIP TO MATCH SCHEDULED BASE.
 - PAINT FIRE EXTINGUISHER CABINETS SEMI-GLOSS TO MATCH WALL ON WHICH IT OCCURS.
 - BASE CABINET PLASTIC LAMINATE TOE KICKS TO MATCH CORRESPONDING BASE CABINET PLASTIC LAMINATE SPECIFICATION, U.N.O.
 - ALL AREAS TO RECEIVE CARPET, RUBBER BASE, EGGSHELL WALL PAINT AND SEMI-GLOSS DOOR FRAME, U.N.O.
 - SUBMIT SAMPLES OF ALL FINISH MATERIALS TO THE DESIGN PROFESSIONAL FOR APPROVAL PRIOR TO ORDERING MATERIALS AND COMMENCING WORK. SUBMIT ACTUAL COLOR AND FINISH OF PAINT ON 8-1/2" X 11" SAMPLES. WALLCOVERING SAMPLES MUST BE CUT FROM ACTUAL ROLL TO BE USED FOR INSTALLATION. SAMPLES OF NATURAL STONE OR OTHER MATERIAL WITH WIDE VARIATIONS SHALL COME FROM ACTUAL MATERIAL TO BE USED.
 - PREPARE SURFACES FOR ACCEPTING OF FINISHES PER MANUFACTURER'S RECOMMENDATIONS.
 - WHEN BASE IS CONTINUOUS OR TRANSITIONED ON AN OUTSIDE CORNER WHERE FLOOR MATERIALS OF DIFFERENT THICKNESSES OCCUR, SET BASE ON TOP OF LOWER FLOORING MATERIAL AND TRIM THE BOTTOM OF BASE AT THE HIGHER FLOORING SUCH THAT IT IS BOTH TIGHT TO THE FLOORING AND ALIGNS WITH THE BASE AT THE LOWER FLOORING AT THE TOP EDGE. NOTE: WOOD BASE TO BE INSTALLED AFTER FLOORING IS INSTALLED.
 - PROVIDE BLOCKING IN AREAS DESIGNED TO RECEIVE OVERHEAD CABINETS, TV/ DISPLAY SCREENS AND MARKERBOARDS.
 - IF DESIGN PROFESSIONAL'S WRITTEN DESCRIPTION OF COLOR NAME, NUMBER AND MANUFACTURER'S INFORMATION ARE IN CONFLICT, CONTACT DESIGN PROFESSIONAL FOR CLARIFICATION BEFORE ORDERING MATERIALS.
 - ALL CASEWORK TO RECEIVE TOPS FABRICATED IN PLASTIC LAMINATE, U.N.O. REFER TO INTERIOR ELEVATIONS FOR CLARIFICATION.
 - PROVIDE BLOCKING IN AREAS DESIGNATED TO RECEIVE OVERHEADS IN ALL OFFICES. TYPICAL CONDITION TO OCCUR AT WALL PARALLEL TO RETURN; REFER TO FINISH NOTE F-3 IN PLAN.
 - COVERPLATES ON DEVICES TO BE STAINLESS STEEL WITH GRAY OR BLACK RECEPTACLES.

FINISH SYMBOL LEGEND

P-1	WALL FINISH	F-#	FLOOR TRANSITION
CPT-4	FLOOR FINISH	F-#	FINISH PLAN KEY NOTES
P-4	ACCENT WALL FINISH	→	FLOOR FINISH DIRECTION
			AREA NOT IN SCOPE



MTL. STUD PARTITION TO 6" ABOVE CEILING				
WALL TYPE	DESCRIPTION	FIRE RATING	U.L. #	STC
A3	3 5/8" MTL. STUD	N/A	N/A	48-55

MTL. STUD PARTITION TO 6" ABOVE CEILING				
WALL TYPE	DESCRIPTION	FIRE RATING	U.L. #	STC
H1	7/8" HAT CHANNELS (NO ACOUSTIC BATTING)	N/A	N/A	N/A

- ### FLOOR PLAN GENERAL NOTES
- ALL DOOR FRAMES IN METAL STUD WALLS SHALL BE SET 4" FROM PERPENDICULAR WALLS ADJACENT TO DOOR HINGE SIDE, U.N.O.
 - LOCATE CORNER GUARDS WP-1 AS SHOWN ON THE PLANS.
 - THE FINISH ELEVATIONS OF EXIT LANDINGS SHALL NOT EXCEED A MAXIMUM OF 1/2" BELOW THRESHOLDS.

KEY NOTES - FINISH PLAN

KEY NOTE #	DESCRIPTION
F-1	ALIGN WALL CENTERLINE WITH MULLION
F-2	PROVIDE WP-1 AT CORNERS
F-3	PROVIDE BLOCKING IN WALL FOR DIGITAL SCREEN
F-4	PATCH EXISTING OPENING TO MATCH ADJACENT CONSTRUCTION MATERIALS. FACE OF PARTITION TO BE FLUSH W/EXISTING PARTITION TO LIKE NEW CONDITION.
F-5	RE-INSTALL FIRE EXTINGUISHER CABINET.
F-6	CONTRACTOR TO PATCH OR REPLACE CARPET TILE (CPT-1) TO LOOK LIKE NEW WHERE DEMOLISHED PARTITIONS OCCURRED.
F-7	CONTRACTOR TO PROVIDE RB-1 AT NEW PARTITIONS.



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FORSYTH COUNTY WATER SEWER SUITE 150
 FORSYTH COUNTY
 110 E MAIN STREET
 CUMMING, GA 30040

PRINT RECORD

No.	DATE	DESCRIPTION
	11/04/2021	Permit Drawings

Drawn By: EJ
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 Date: 11/04/2020
 Job No.: 20005

Sheet Title:
REFERENCE & FINISH PLAN
 Sheet No.:
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11/17/2021 4:29:25 PM C:\Users\wregan\Documents\21069 FOCO Water Sewer Renovation_ARCH - RVT 21_wregan@jericho-design.com.rvt



1 REFLECTED CEILING PLAN
SCALE: 1/8" = 1'-0"

RCP LEGEND	
	RELOCATED EXISTING 2X4 LAY-IN LIGHT
	SUPPLY
	CEILING TAG
	LAY-IN CEILING GRID
	GYP SUM BD. CEILING

EXIT SIGNAGE (SHADING INDICATES FACE OF SIGN; ARROW SHOWN INDICATES DIRECTION)

ACT-1: ACOUSTICAL CEILING TILE
MFR: MATCH EXISTING
STYLE: MATCH EXISTING
MODEL NO: MATCH EXISTING
EDGE: MATCH EXISTING
SIZE: 2' X 2' X 3/4"
COLOR: WHITE
GRID: MATCH EXISTING
COLOR: WHITE

RCP GENERAL NOTES

- CONSTRUCTION PROFESSIONAL SHALL FIELD VERIFY ALL FIXTURE LOCATIONS. ANY CONFLICT WITH FIELD CONDITIONS, DRAWINGS AND/OR OTHER TRADES SHALL BE REPORTED TO THE ARCHITECT IMMEDIATELY UPON DISCOVERY FOR CLARIFICATION PRIOR TO PROCEEDING WITH ASSOCIATED WORK.
- PROVIDE AND INSTALL CEILING TILE, MAIN TEES, CROSS TEES, WALL MOULDINGS AND OTHER ACCESSORIES NECESSARY TO COMPLETE THE SCOPE OF WORK.
- ALL ADJACENT LIGHT SWITCHES SHALL BE GANGED WITH A SINGLE FACE PLATE.
- UNLESS APPROVED BY THE ARCHITECT, ALL THERMOSTATS SHALL BE LOCATED DIRECTLY ADJACENT TO THE LIGHT SWITCH IN THE ROOM IN WHICH IT OCCURS.
- CENTER ALL SPRINKLER HEADS IN CEILING TILES WHERE POSSIBLE. ALL SPRINKLER HEADS IN GYP SUM BOARD TO BE RECESSED & CONCEALED.
- CENTER ALL LIGHT FIXTURES IN SPACE, U.N.O. ALL RECESSED LIGHT FIXTURES SHALL BE CENTERED IN CEILING TILES WHERE POSSIBLE, U.N.O.
- CONSTRUCTION PROFESSIONAL WILL ENSURE THAT LENSES IN LIGHTING FIXTURES ARE CLEAN AND FREE OF DUST, DIRT AND SMUDGES. PLASTIC AND LABELS SHALL BE REMOVED FROM ALL LIGHT FIXTURES AT PROJECT COMPLETION.
- NO SUBSTITUTES WILL BE ACCEPTED FOR ANY LIGHT FIXTURES UNLESS APPROVED BY ARCHITECT IN WRITING.



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**FORSYTH COUNTY WATER
SEWER
SUITE 150
FORSYTH COUNTY**
110 E MAIN STREET
CUMMING, GA 30040

PRINT RECORD

No.	DATE	DESCRIPTION
11/04/2021	11/04/2021	Permit Drawings

Drawn By EJ
Checked By JGD
Date 11/04/2020
Job No. 20005

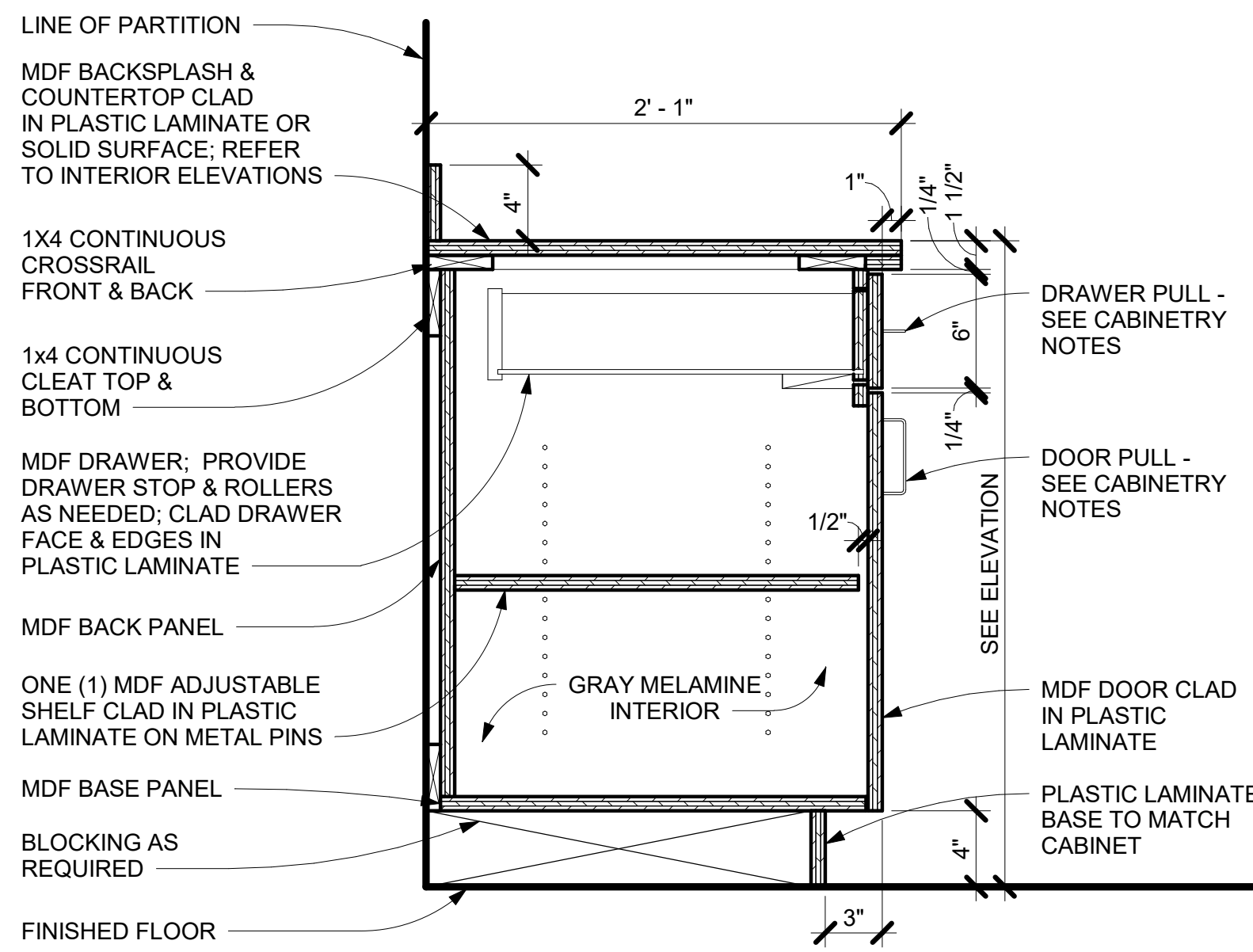
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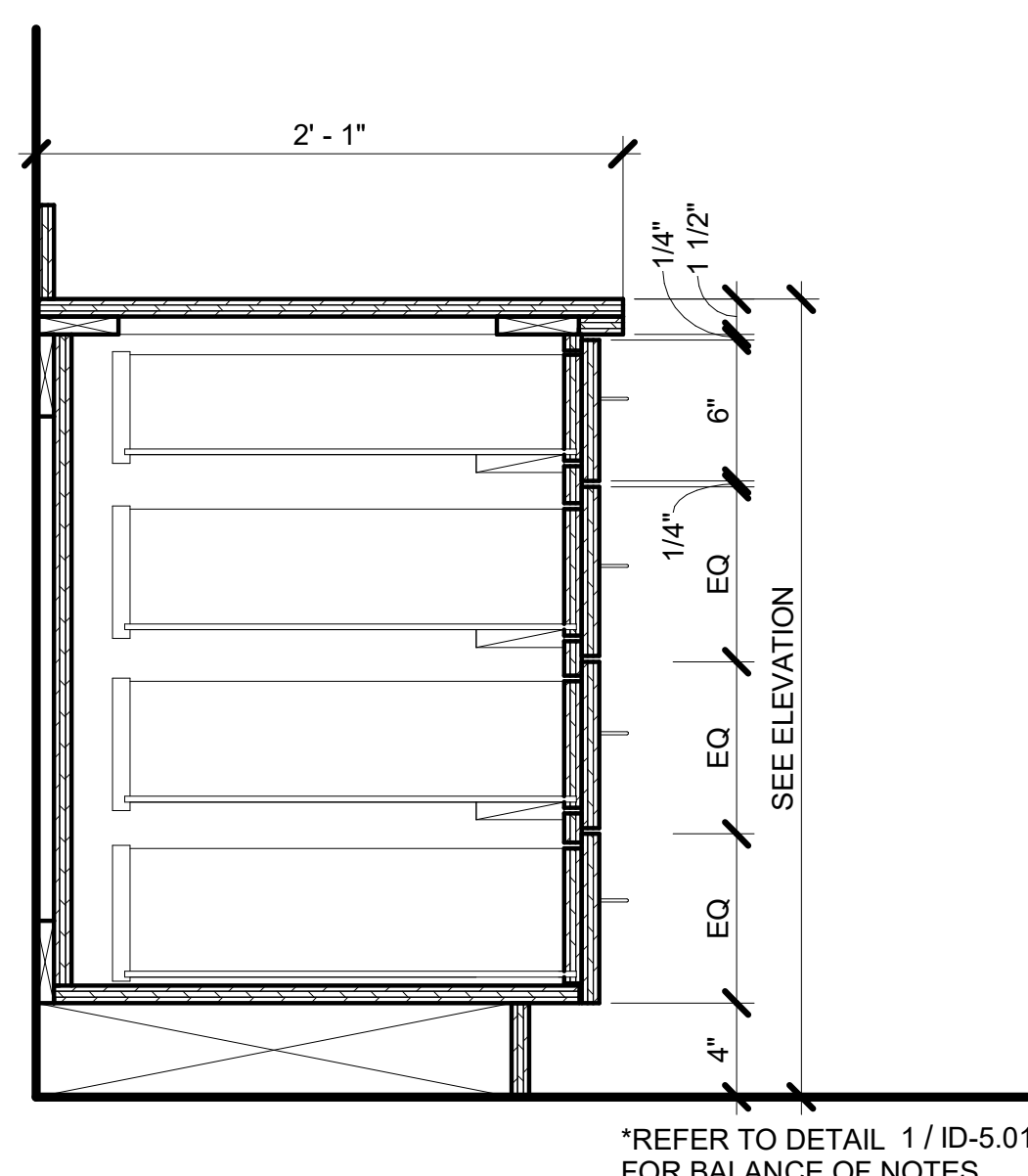
RCP SHOWN ON THIS DOCUMENT IS FOR GRAPHIC ILLUSTRATION ONLY AND SHALL NOT BE USED AS AN ACCURATE REPRESENTATION OF MECHANICAL, ELECTRICAL AND PLUMBING SCOPE OF WORK. REFERENCE MECHANICAL, ELECTRICAL AND PLUMBING DRAWINGS AND SPECIFICATIONS FOR SCOPE OF WORK.

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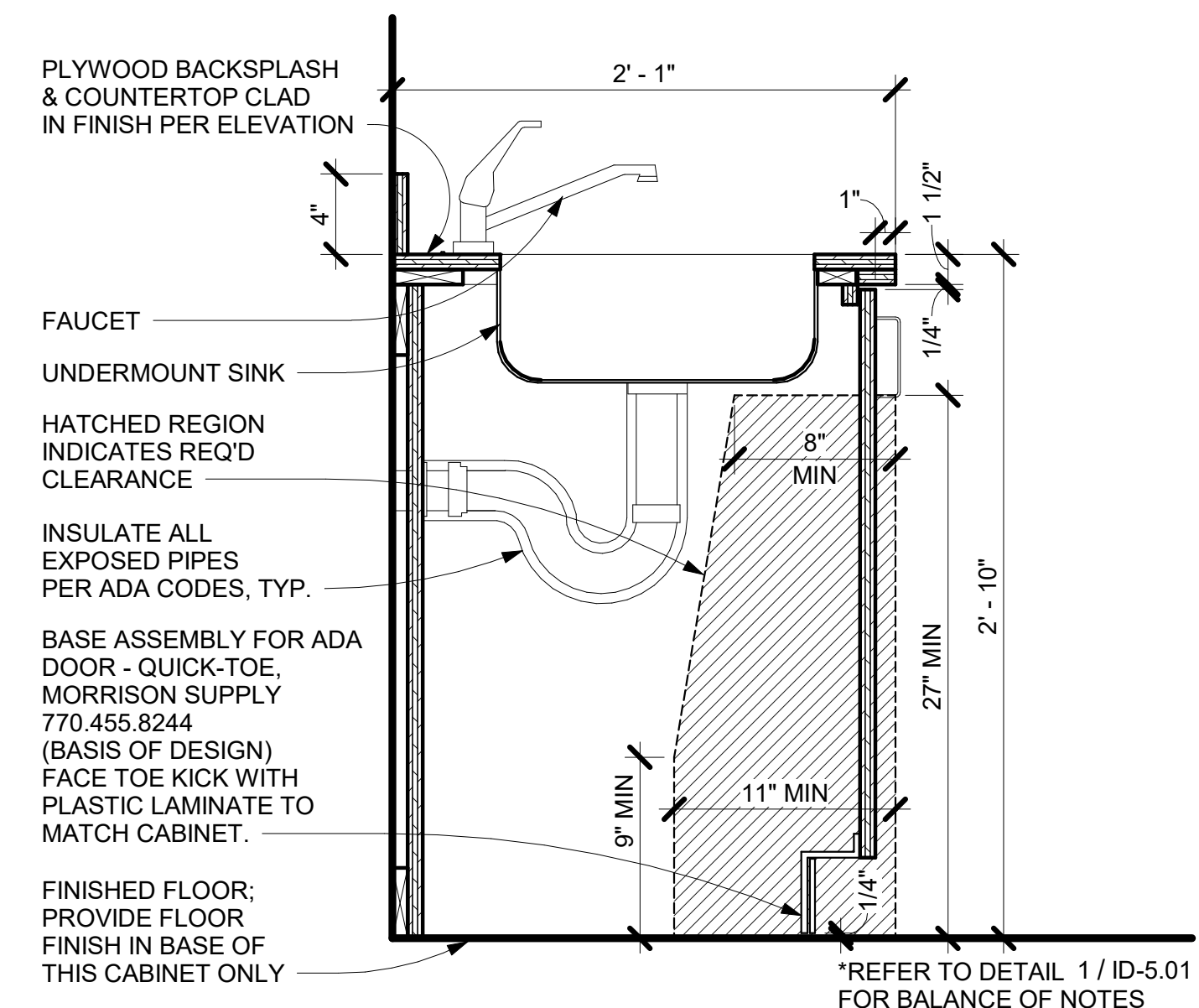
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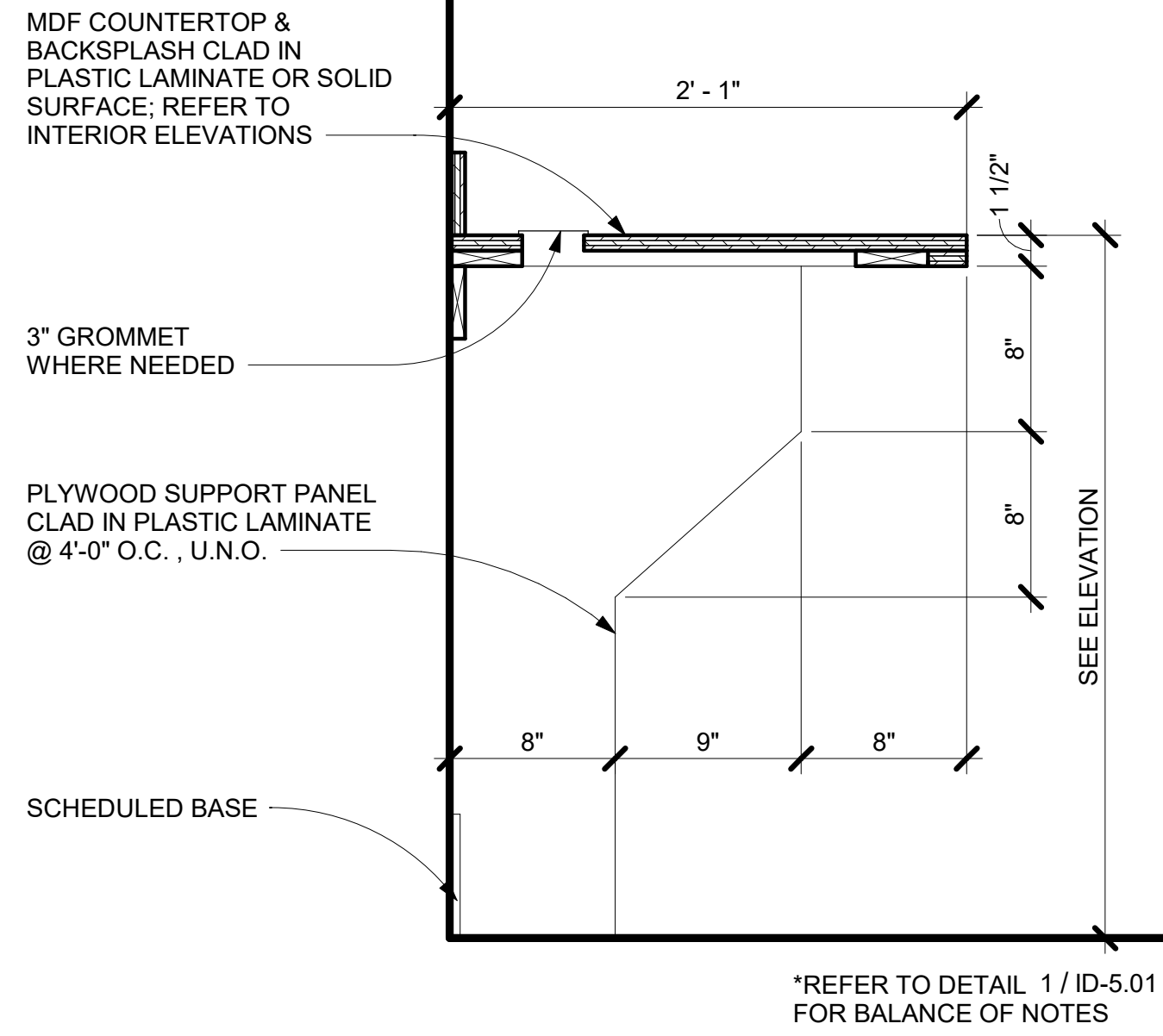
1 BASE CABINET - 1 DRAWER & DOORS
SCALE: 1 1/2" = 1'-0"



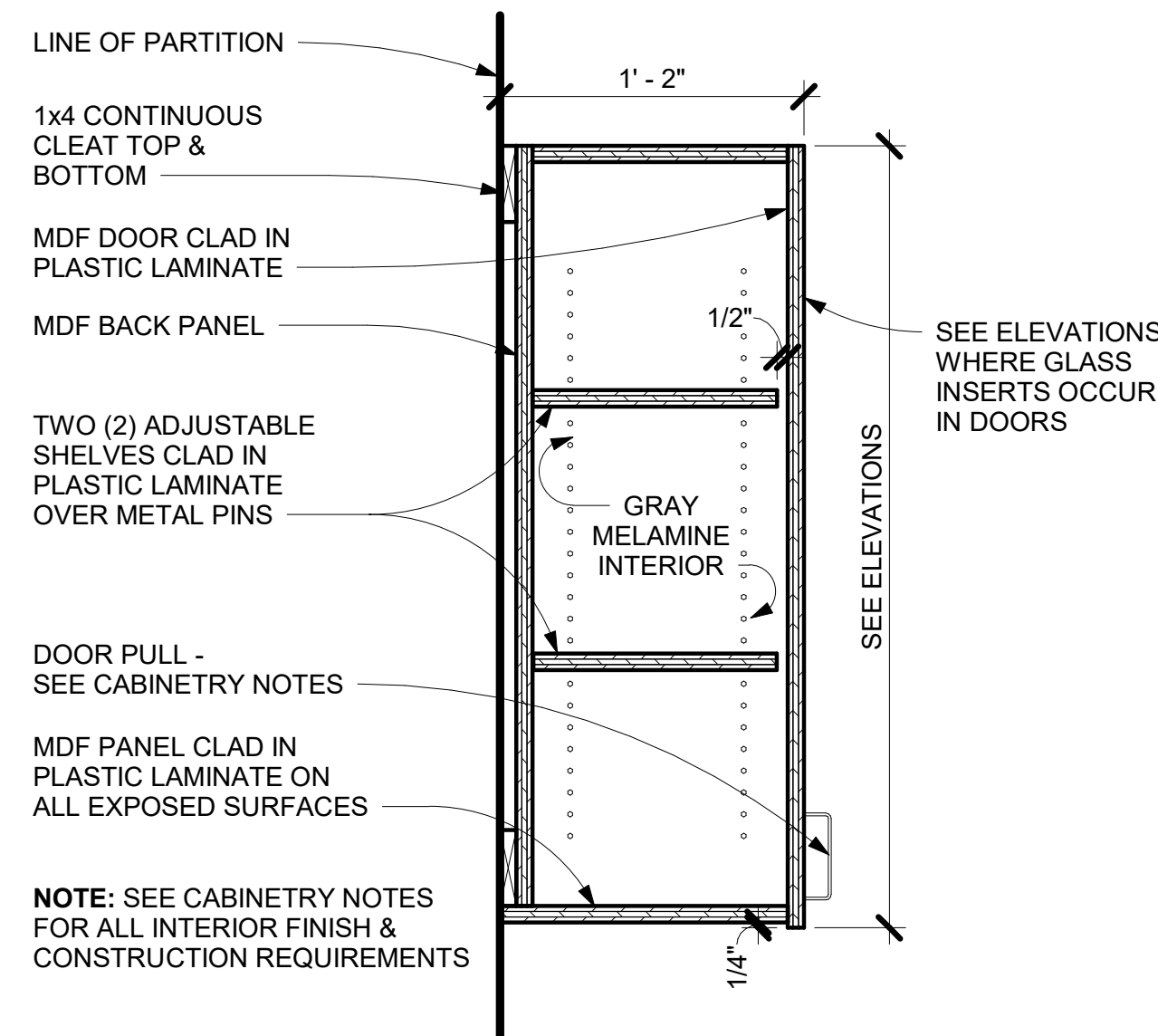
2 BASE CABINET - 4 DRAWERS
SCALE: 1 1/2" = 1'-0"



3 BASE CABINET - ACCESSIBLE SINK
SCALE: 1 1/2" = 1'-0"



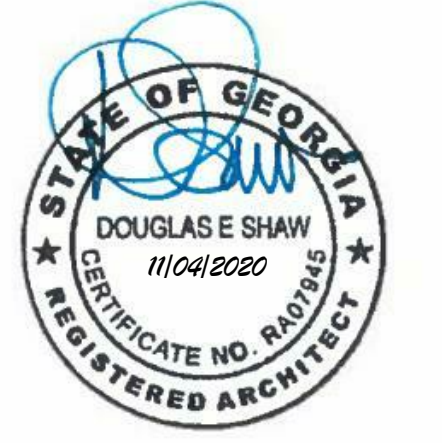
4 COUNTERTOP - WORKSURFACE
SCALE: 1 1/2" = 1'-0"



5 UPPER CABINET - DOOR
SCALE: 1 1/2" = 1'-0"



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**FORSYTH COUNTY WATER
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No.	DATE	DESCRIPTION
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Sheet Title:
**INTERIOR SECTIONS
& DETAILS**

Sheet No.:
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MECHANICAL AND PLUMBING GENERAL NOTES

- 1. ALL WORK SHALL COMPLY WITH ALL LOCAL BUILDING CODES, LAWS, REGULATIONS, ORDINANCES, SMACNA STANDARDS, AND ASHRAE GUIDELINES.
2. THE WORK SHALL CONSIST OF ALL LABOR AND MATERIAL TO COMPLETELY INSTALL ALL WORKS AS SHOWN ON THESE DRAWINGS.
3. COORDINATE LOCATION OF PIPE ROUTING, DUCTWORK AND DIFFUSERS WITH LIGHT FIXTURES WITH ELECTRICAL CONTRACTOR. RELOCATE PIPING FOR DUCTWORK, IF NECESSARY, AS DIRECTED BY THE ARCHITECT/ENGINEER.
4. ALL WORK ASSOCIATED WITH THE SCOPE OF THIS PROJECT INCLUDING EQUIPMENT, ACCESSORIES, DEVICES, SYSTEMS, ETC. SHALL BE COVERED BY A ONE YEAR GUARANTEE WHICH SHALL START AT THE TIME OF FINAL ACCEPTANCE BY THE OWNER. ANY DEFECTS IN PRODUCTS, INSTALLATION, WORKMANSHIP SHALL BE CORRECTED AT NO ADDITIONAL CHARGE AND SHALL INCLUDE ANY NECESSARY REPAIRS TO WALLS, FLOORS, MILLWORK, ETC. WHICH SHALL BE REPAIRED BACK TO NEW AND FINISHED CONDITION.
5. THE CONTRACTOR SHALL KEEP A RECORD OF THE CHANGES WHICH ARE IN CONFLICT WITH THESE DRAWINGS AND SPECIFICATIONS. AT THE COMPLETION OF THIS WORK THE CONTRACTOR SHALL SUBMIT 'AS BUILT' PRINTS TO THE OWNER.
6. THE DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY SHOW THE EXACT ROUTING OR DETAILED FITTINGS. ALL WORK SHALL BE INSTALLED AS A COMPLETE SYSTEM WITH NECESSARY COMPONENTS, FITTINGS, STRAPS, ETC. ALL DAMPERS AND VALVES SHALL BE INSTALLED SO THAT THEY ARE ACCESSIBLE.
7. REFER TO THE ENTIRE CONTRACT DRAWING SET AND SPECIFICATIONS FOR GUIDANCE ON DIMENSIONS, CEILING HEIGHTS, DOOR SWEEPS, ROOM FINISHES, STRUCTURAL DETAILS, LOCATIONS OF DUCTWORK, PIPING AND STRUCTURAL MEMBERS. INSTALL THE MECHANICAL SYSTEMS SO AS NOT TO INTERFERE WITH THE INSTALLATION OR FUNCTION OF ANOTHER DISCIPLINE WORK.
8. ALL DUCT AND PIPING MUST BE CONCEALED ABOVE THE CEILING OR IN THE WALLS UNLESS OTHERWISE NOTED.
9. COORDINATE DIFFUSER LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN TO VERIFY FRAME TYPES BASED ON CEILING TYPE.
10. COORDINATE VALVE LOCATIONS WITH ARCHITECTURAL REFLECTED CEILING PLAN TO MAKE CERTAIN NONE ARE INSTALLED OVER GYPSUM BOARD CEILINGS.
11. THE CONTRACTOR SHALL INSTALL ALL WORK IN A NEAT AND WORKMANLIKE MANNER AND ACCORDING TO GENERALLY ACCEPTED PRACTICES OF FIRST CLASS WORKMANSHIP.
12. THERMOSTATS SHALL BE LOCATED IN EACH ZONE AS INDICATED ON PLAN. THE EXACT LOCATION ON THE WALL SHALL BE AS DIRECTED BY THE ARCHITECT.
13. CONTRACTOR SHALL PROVIDE (2) SETS OF FILTERS FOR EACH FAN ONE DURING CONSTRUCTION AND ONE SET AT COMPLETION OF CONSTRUCTION. FILTERS SHALL BE 1" THICK PLEATED, MINIMUM 30% EFFICIENT (MERV RATING OF 1).
14. ALL DIMENSIONS OF EXISTING CONSTRUCTION ARE APPROXIMATE. THE CONTRACTORS SHALL MAKE ALL NECESSARY FIELD MEASUREMENTS OF EXISTING STRUCTURES, AND EQUIPMENT TO VERIFY DIMENSIONS SHOWN ON THE DRAWINGS. PROVIDE PROPER DIMENSIONS NOT SHOWN PRIOR TO EQUIPMENT FABRICATION. ALL COST FOR MODIFICATIONS TO EXISTING CONSTRUCTION DUE TO LACK OF CORROBORATION OF DIMENSIONS BY FIELD MEASUREMENT SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
15. ALL PIPING, DUCTWORK, INSULATION, CONSTRUCTION STANDARDS, ETC. MUST BE EQUAL TO OR GREATER THAN EXISTING BUILDING STANDARDS. THE USE OF RIGID FIBER DUCT BOARD AND PVC IS NOT PERMITTED.
16. LANDLORD SHALL HAVE FIRST REFUSAL FOR EXISTING EQUIPMENT AND MATERIALS SHOWN OR LISTED TO BE REMOVED FROM THE PROPERTY. EQUIPMENT AND MATERIALS SHALL BECOME PROPERTY OF THE CONTRACTOR AND REMOVED FROM THE SITE IF NOT ACCEPTED BY THE LANDLORD.
17. CONTRACTOR SHALL PROVIDE MANUAL VOLUME DAMPER AT SUPPLY AND/OR RETURN AIR TAKE-OFFS IF NONE EXIST TO PROPERLY BALANCE SYSTEMS WITHIN THE SCOPE OF WORK.
18. CONTRACTOR SHALL CLEAN AND/OR PAINT EXISTING AIR DISTRIBUTION DEVICES TO REMAIN.

FIRE PROTECTION NOTES

- 1. CONTRACTOR SHALL PROVIDE STAMPED SPRINKLER DRAWINGS IN COMPLIANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL CODES, AND IN ACCORDANCE WITH NFPA. CONTRACTOR SHALL PROVIDE GUARANTEE COVERING ALL WORK AND MATERIALS FOR ONE YEAR.
2. CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING FLOW TEST DATA AND PREPARING HYDRAULIC CALCULATIONS IF REQUIRED BY AUTHORITY HAVING JURISDICTION.
3. CONTRACTOR TO CONFIRM STRUCTURAL AND SUPPLY HYDRAULIC INFORMATION PRIOR TO SYSTEM MODIFICATION AND INSTALLATION.
4. CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION OF ALL HEADS TO INSURE WORK WILL NOT CONFLICT WITH CEILING GRID AND LIGHTS. COORDINATE WITH ALL OTHER TRADES.
5. RELOCATE/PROVIDE NEW (MATCH EXISTING TYPE) SPRINKLER HEADS AND COORDINATE WITH LIGHTS, GRILLES, & DIFFUSERS WITHIN THE REQUIREMENTS OF NFPA 13.
6. REVISED SPRINKLER LAYOUT SHALL COMPLY WITH NFPA 13.
7. SPRINKLER PIPING SHALL BE ASTM A135, SCHEDULE 40 BLACK STEEL FOR 2" AND SMALLER PIPE SCHEDULE 10 BLACK STEEL MAY BE USED FOR 2-1/2" AND LARGER PIPE.

MECHANICAL (HVAC & PLUMBING) SPECIFICATIONS

- A. GENERAL CONDITIONS OTHER CONTRACT DOCUMENTS
1. THE GENERAL CONDITIONS AND OTHER CONTRACT DOCUMENTS AS SET FORTH HEREBY ARE TO BE INCORPORATED INTO AND BECOME A PART OF THE SPECIFICATIONS FOR THE WORK UNDER THIS DIVISION.
B. CODES AND PERMITS
1. COMPLY WITH ALL RULES, REGULATIONS OF STATE, COUNTY, AND CITY AUTHORITIES HAVING JURISDICTION OVER THE PREMISES INCLUDING SAFETY REQUIREMENTS OF OSHA. DO NOT CONSTRUCT THIS AS RELIEVING CONTRACTOR FROM COMPLYING WITH SPECIFICATIONS WHICH EXCEED CODE REQUIREMENTS AND NOT IN CONFLICT THEREWITH.
2. SECURE AND PAY FOR ALL PERMITS AND CERTIFICATES OF INSPECTION REQUIRED.
C. LOCAL CONDITIONS
1. THE CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID AND BE FAMILIAR WITH ALL EXISTING CONDITIONS. SPECIAL ATTENTION SHALL BE GIVEN TO WORK TO BE PERFORMED ABOVE AN EXISTING CEILING. NO ALLOWANCE WILL BE MADE FOR LACK OF KNOWLEDGE OF EXISTING CONDITIONS.
2. THIS CONTRACTOR SHALL BE HELD TO HAVE EXAMINED THE PREMISES AND SITE SO AS TO COMPARE THEM WITH THE DRAWINGS AND SPECIFICATIONS. NO ALLOWANCE SHALL BE MADE TO THE CONTRACTOR BY REASON OF HIS FAILURE TO HAVE MADE SUCH EXAMINATION OR OF ANY ERROR ON HIS PART.
3. WHERE EXISTING SLABS ARE TO BE CUT OR CORE DRILLED, THE CONTRACTOR SHALL X-RAY THE EXISTING SLABS TO AVOID CUTTING OR DISRUPTING EXISTING CONDUITS, CABLES, PLUMBING OR STRUCTURAL MEMBERS.
4. HVAC SYSTEMS, PLUMBING SYSTEMS, AND ELECTRICAL SERVICE TO THE BUILDING SHALL NOT BE INTERRUPTED WITHOUT WRITTEN CONSENT OF THE BUILDING OWNER.
5. AT THE COMPLETION OF THE PROJECT, ALL WORK UNDER THIS DIVISION SHALL BE COMPLETELY INTEGRATED WITH THE EXISTING SYSTEMS AND LEFT IN PERFECT OPERATING CONDITION.
6. PRIOR TO ANY DEMOLITION OR CONSTRUCTION THE CONTRACTOR SHALL HAVE THE EXISTING CONDITIONS INSPECTED BY AN EPA OSHA CERTIFIED ASBESTOS ABATEMENT AGENCY TO IDENTIFY THE PRESENCE OF ASBESTOS. SHOULD ANY ASBESTOS BE FOUND IT SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE ARCHITECT AND OWNER AND SPECIFICALLY IDENTIFIED IN WRITING.

D. DRAWINGS

- 1. DRAWINGS AND SPECIFICATIONS ARE TO BE CONSIDERED AS SUPPLEMENTING EACH OTHER WORK SPECIFIED SHALL BE PERFORMED OR FURNISHED AS THOUGH MENTIONED IN BOTH SPECIFICATIONS AND DRAWINGS.
2. THE DRAWINGS ARE SCHEMATIC ONLY AND ARE INTENDED TO SHOW APPROXIMATE LOCATIONS. DO NOT SCALE.

E. SHOP DRAWINGS/SUBMITTALS

- 1. THIS CONTRACTOR SHALL SUBMIT SHOP DRAWINGS ON THE ITEMS OF EQUIPMENT AND SYSTEMS AS NECESSARY TO CLEARLY SHOW EQUIPMENT AND CONSTRUCTION.
2. THE GENERAL CONTRACTOR SHALL REVIEW, COMMENT AND STAMP THE SHOP DRAWINGS/SUBMITTALS PRIOR TO THE ENGINEER REVIEW.

F. SUPERVISION

- 1. THIS CONTRACTOR SHALL HAVE IN CHARGE OF THE WORK, A COMPETENT SUPERINTENDENT WITH EXPERIENCE IN THE WORK TO BE INSTALLED UNDER THIS CONTRACT.

G. COORDINATION

- 1. THIS CONTRACTOR SHALL COORDINATE HIS WORK AND COOPERATE WITH THE OTHER CONTRACTORS. HE SHALL ARRANGE HIS WORK WITH THEIRS SO THAT THERE WILL BE NO DELAY IN THE PROPER INSTALLATION.
2. EXAMINE WORK OF OTHER TRADES WHICH COMES IN CONTACT WITH OR IS COVERED BY THIS WORK. DO NOT ATTACH TO, COVER OR FINISH AGAINST ANY DEFECTIVE WORK, OR INSTALL WORK OF THIS DIVISION IN A MANNER WHICH WILL PREVENT OTHER TRADES FROM PROPERLY INSTALLING THEIR WORK. CONSULT ALL DRAWINGS, SPECIFICATIONS AND DETAILS OF OTHER DIVISIONS OF THE WORK.

H. CUTTING AND PATCHING

- 1. ALL CUTTING AND PATCHING WORK RELATED TO THIS CONTRACT WILL BE THE RESPONSIBILITY OF THIS CONTRACTOR. REPAIRS SHALL MATCH NEW AND/OR EXISTING CONDITIONS.

I. GUARANTEE AND WARRANTIES

- 1. CONTRACTOR SHALL WARRANT THAT EQUIPMENT AND ALL WORK IS INSTALLED IN ACCORDANCE WITH GOOD ENGINEERING PRACTICE AND THAT ALL EQUIPMENT WILL MEET REQUIREMENTS SPECIFIED. ANY EQUIPMENT FAILING TO PERFORM OR FUNCTION AS SPECIFIED SHALL BE REPLACED WITH COMPLYING EQUIPMENT, WITHOUT COST TO THE OWNER.
2. GUARANTEE AGAINST DEFECTS IN WORKMANSHIP AND MATERIALS. MAKE GOOD REPAIR OR REPLACE ANY DEFECTIVE WORK, MATERIAL OR EQUIPMENT WITHIN (1) ONE YEAR FROM DATE OF ACCEPTANCE.

J. INSTALLATION REQUIREMENTS

- 1. LOCATIONS OF PIPING, EQUIPMENT, DUCTS, ETC., ON THE DRAWINGS IS DIAGRAMMATIC. INDICATED POSITIONS SHALL BE FOLLOWED AS CLOSELY AS POSSIBLE. EXACT LOCATIONS SHALL BE SUBJECT TO BUILDING CONSTRUCTION AND INTERFERENCES WITH OTHER WORK. ARCHITECT RESERVES THE RIGHT TO MAKE MINOR CHANGES IN LOCATION OF ANY PART OF THE WORK UP TO THE TIME OF ROUGHING-IN WITHOUT ADDITIONAL COST.

K. TEST AND ADJUSTMENTS

- 1. OBTAIN ALL INSPECTIONS REQUIRED BY LAW, ORDINANCES, RULES, REGULATIONS OF AUTHORITIES HAVING JURISDICTION, FURNISH CERTIFICATES OF SUCH INSPECTIONS. PAY ALL FEES AND PROVIDE ALL EQUIPMENT, POWER AND LABOR NECESSARY FOR INSPECTIONS AND TEST.
2. PRESSURE TESTS
A. ALL PIPING SHALL BE GIVEN THE FOLLOWING PRESSURE TEST WITHOUT APPRECIABLE PRESSURE DROP. EQUIPMENT WHICH WOULD BE DAMAGED BY THE REQUIRED TEST PRESSURE SHALL BE ISOLATED FROM THE SYSTEM DURING TESTING.
SERVICE MEDIUM (Psi) HRS.
DOMESTIC WATER WATER 125 6
B. SANITARY SEWERS PER STATE PLUMBING CODE AND LOCAL AUTHORITY.

L. HVAC SYSTEMS ADJUSTMENTS AND BALANCE

- 1. PROVIDE A COMPLETE TEST AND BALANCE OF THE SYSTEMS THAT SERVE THIS SPACE. PLACE ALL HEATING, VENTILATING, AND AIR CONDITIONING SYSTEMS AND EQUIPMENT INTO FULL OPERATION AND CONTINUE OPERATION OF SAME DURING EACH WORKING DAY OF TESTING AND BALANCING. EVERY SUPPLY OUTLET SHALL BE TESTED AND BALANCED TO WITHIN 10% OF AIR QUANTITIES SHOWN OUTSIDE AIR AND EXHAUST AIR SHALL BE BALANCED TO WITHIN 5% OF AIR QUANTITIES SHOWN CFM OFFSETS WHERE CALLED OUT SHALL BE MET WITHIN 5% OF CFM LISTED.
2. THE TEST AND BALANCE SHALL BE PERFORMED BY AN AABC OR NEBB CERTIFIED TEST AND BALANCE CONTRACTOR THAT MUST BE A DIFFERENT COMPANY THAN THE MECHANICAL CONTRACTOR.
3. SUBMIT A CERTIFIED TEST AND BALANCE REPORT TO THE ENGINEER FOR APPROVAL. REPORT SHALL INCLUDE (AT A MINIMUM) THE FOLLOWING:
A. NAMEPLATE DATA FOR ALL POWERED DEVICES.
B. DIFFUSER LAYOUT (DRAWING) DEPICTING ALL DIFFUSERS AND EQUIPMENT. DIFFUSER TAGS SHALL SHOW THE INITIAL AND FINAL READINGS OF ALL DIFFUSERS AND GRILLES.
C. AIRFLOW AT UNIT SUPPLY, RETURN, AND OUTSIDE AIR (IF APPLICABLE) CONNECTIONS.
D. AIRFLOW AT ALL SUPPLY AIR DIFFUSERS.
E. AIRFLOW AT ALL EXHAUST GRILLES.
F. AIRFLOW AT OUTSIDE AIR CONNECTIONS.
G. AIR TEMPERATURE INLET AND OUTLET AT EACH NEW HEATING OR COOLING COIL. DISCHARGE MAY BE RECORDED AT A DIFFUSER OUTLET.
4. FINAL DIFFUSER READINGS THAT DIFFER FROM THE DRAWINGS BY MORE THAN THE LIMITS ABOVE SHALL BE NOTED IN THE REPORT.
5. EXISTING EQUIPMENT TO REMAIN. THE MECHANICAL CONTRACTOR SHALL THOROUGHLY INSPECT AND TEST THE OPERATION OF THE EACH EXISTING HEATING/COOLING SYSTEM (PRIOR TO TEST & BALANCE) AND SUBMIT ANY REPAIR/REPLACEMENT RECOMMENDATIONS TO THE ENGINEER. TEST AND BALANCE REPORT SHALL INCLUDE EXISTING DIFFUSERS WITH TAGS SHOWING EXISTING AIRFLOW READINGS.

M. INSULATION

- 1. ALL INSULATION SHALL BE INSTALLED OVER CLEAN DRY SURFACES. INSULATION MUST BE DRY AND IN GOOD CONDITION. WET OR DAMAGED INSULATION WILL NOT BE ACCEPTABLE. NO INSULATION SHALL BE APPLIED PRIOR TO PRESSURE TEST. COMPLETION OF THE RESPECTIVE PIPING SYSTEMS. INSTALLATION SHALL BE CONTINUOUS.
2. FIBERGLASS PIPE INSULATION SHALL BE INSTALLED WITH JOINTS BUTTED FIRMLY TOGETHER. JACKET TAPOS TO BE SEALED WITH FACTORY APPLIED ADHESIVE BUTT JOINTS TO BE SEALED WITH BUTT STRIPS, HAVING FACTORY APPLIED ADHESIVE VALVES AND FITTINGS SHALL BE INSULATED USING FILTERED SECTIONS OF INSULATION. INSULATION CEMENT OR PRE-MOLDED FITTING INSULATION. THE INSULATION APPLIED TO THE VALVES, FITTINGS AND THROUGH HANGERS SHALL BE COVERED WITH THE SAME TYPE OF COVERING AS USED ON THE PIPE INSULATION. PIPE SHIELDS TO BE PROVIDED AT ALL SUPPORTS.
3. PROVIDE THE FOLLOWING INSULATION PRODUCTS AS MANUFACTURED BY OWENS-CORNING. INSULATION PRODUCTS AS MANUFACTURED BY ARMOSTRONG, CERTAINTED OR KNAUF ARE ACCEPTABLE. ADHESIVE SHALL BE BENJAMIN FOSTER OR EQUAL.
4. SUPPLY AND OUTSIDE AIR DUCT SHALL BE MINIMUM R10.0 OR R19.0 WHEN INSTALLED IN UNCONDITIONED SPACE. RETURN AIR SHALL BE INSULATED WHEN INSTALLED IN UNCONDITIONED SPACES, OR AS NOTED. EXHAUST DUCT SHALL BE INSULATED WHERE NOTED.
5. MATERIALS
5.1. DOMESTIC HOT WATER: 1" THICK AS/J99L FIBERGLASS FOR PIPE SIZES 1-1/4" OR SMALLER, 1-1/2" THICK AS/J99L FIBERGLASS FOR PIPE SIZES 1-1/2" & GREATER.
5.2. DOMESTIC COLD WATER: 1" THICK AS/J99L FIBERGLASS.
5.3. SUPPLY DUCT: 2" MINIMUM THICK DUCT WRAP.
5.4. REFRIGERANT PIPING: 1" THICK AS/J99L FIBERGLASS.
5.5. ALL INSULATION SHALL MEET 25/50 FLAME AND SMOKE SPREAD RATING FOR FLENUM APPLICATIONS.
6. EXISTING & NEW PVC OR NON-COMPLIANT PLENUM RATED MATERIALS SHALL BE WRAPPED WITH 3M FIRE BARRIER OR EQUIVALENT PRODUCT OR CONSTRUCTED WITH PLENUM COMPLIANT MATERIALS.

N. DUCTWORK

- 1. ALL DUCTWORK SHALL BE CONSTRUCTED AND INSTALLED IN COMPLIANCE WITH SMACNA HVAC DUCT CONSTRUCTION STANDARDS 0009 ED. OR LATER.
2. NEW DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL AND INSTALLED AS SHOWN ON THE DRAWINGS. ALL SHEETMETAL DUCT JOINTS & SEAMS (MINIMUM SEAL CLASS B) SHALL BE SEALED WITH TAPES AND MASTICS AS LISTED IN UL STANDARDS 181A AND 181B.
3. DUCT SIZES INDICATED ON PLANS ARE FREE INSIDE CLEAR DIMENSIONS UNLESS OTHERWISE NOTED.
4. LEAKAGE RATE ALLOWANCE SHALL BE THE LESSER OF SMACNA CLASS B LEAKAGE CALCULATION OR 5% OF SYSTEM CFM.
5. LOW PRESSURE FLEXIBLE DUCTWORK SHALL BE LIMITED TO 6' IN LENGTH. FLEXIBLE DUCTS SHALL BE INSTALLED IN A FULLY EXTENDED CONDITION FREE OF SAGS AND KINKS, USING ONLY THE MINIMUM LENGTH REQUIRED TO MAKE THE CONNECTION. FLEXIBLE DUCT SHALL BE LISTED AS A CLASS 1 AIR DUCT AND SHALL COMPLY WITH UL STANDARD 181, NFPA 90A & B. DUCT SHALL HAVE A MAXIMUM FLAME SPREAD RATING OF 25, A MAXIMUM SMOKE RATING OF 50, SHALL BE RATED FOR POSITIVE PRESSURE OF 10" W.G. AND NEGATIVE PRESSURE OF 1/2" W.G. INSULATION SHALL BE A MINIMUM OF 2" THICK 3/4" PCF DENSITY FIBERGLASS WITH A MINIMUM VALUE OF R16.0. FLEXIBLE DUCT SHALL BE THERMAFLEX TYPE M-KE, FLEMASTER TYPE BM, OR EQUAL.
6. EXISTING FLEXIBLE DUCT: REPAIR TORN OR DAMAGED VAPOR BARRIER/JACKET WITH DUCT TAPES LISTED AND LABELED TO UL 181B. IF INTERNAL CORE IS PENETRATED, REPLACE FLEXIBLE DUCT OR TREAT AS A SPLICE.
7. ELBOWS 45 DEGREES & GREATER IN ALL DUCT SYSTEMS MUST BE EITHER FULL-RADIUS OR MITERED WITH TURNING VANES.
11. INSTALL TURNING VANES FOR ALL RECTANGULAR MITERED ELBOWS.
12. FOR DUCTS WITH VELOCITIES LESS THAN 2,000 FPM PROVIDE SINGLE WALL TYPE.
13. FOR DUCTS WITH VELOCITIES GREATER THAN 2,000 FPM PROVIDE DOUBLE WALL TYPE.
8. FIRE DAMPERS IN DUCTWORK SHALL BE TYPE 'B' STYLE WITH SHUTTER OUTSIDE OF AIRSTREAM.

O. MATERIALS

- 1. PIPE AND FITTINGS DOMESTIC WATER - TYPE "L" HARD COPPER.
2. WASTE & VENT PIPING (ABOVE GROUND INTERIOR) NO-HUB CAST IRON. BUILDING SEWERS & DRAINS (UNDERGROUND) SANITARY SEWERS SHALL BE SERVICE WEIGHT CAST IRON, BELL & SPIGOT, 50L PIPE WITH TYLER "TY-SEAL" NEOPRENE PIPE GASKETS.

P. WASTE SYSTEMS

- 1. RUN ALL DRAINAGE PIPING AS DIRECT AS POSSIBLE. ACTUAL LOCATION OF DRAINS AND WASTE PIPING SHALL MEET THE VARIOUS BUILDING CONDITIONS. DO ANY WORK NECESSARY TO CONCEAL PIPING OR CLEAR PIPING OF OTHER TRADES.
2. HUB DRAINS SHALL BE PROVIDED WITH TRAP PRIMER.
3. WASTE PIPING SHALL BE SLOPED AT A MINIMUM OF 1/4" PER FOOT FOR PIPE SIZES 2-1/2" OR LESS, 1/8" PER FOOT FOR PIPE SIZES 3" TO 6" AND 1/16" PER FOOT FOR PIPE SIZES 6" OR GREATER.

Q. PIPING HANGER SPACING

- 1. INSTALL HANGERS AND SUPPORTS IN PIPING SYSTEMS TO REMOVE STRESS FROM SYSTEM. SPACE HANGERS AND SUPPORTS PER THE FOLLOWING TABLES:
1.1. COPPER PIPE 1-1/4" OR SMALLER - 6' MAXIMUM SPACING & 1-1/2" OR LARGER - 10' MAXIMUM SPACING.
1.2. CAST IRON PIPE ALL SIZES - 5' MAXIMUM SPACING (SPACING OF 10' MAY BE USED WHEN 10' PIPE LENGTH ARE UTILIZED).
1.3. PVC PIPE ALL SIZES - 4' MAXIMUM SPACING.
1.4. CPVC PIPE 1" OR SMALLER - 3' MAXIMUM SPACING & 1-1/4" OR LARGER - 4' MAXIMUM SPACING.

R. VALVES

- 1. VALVES IN WATER PIPING: BALL VALVES WITH SCREWED ENDS, MIN 150 LBS., SUP. VALVES USED FOR SHUT-OFF AND BALANCING SHALL BE EQUIPPED WITH MEMORY STOP.

S. WIRING

- 1. ALL WIRING INCIDENTAL TO THIS TEMPERATURE CONTROL SYSTEM SHALL BE PROVIDED BY THE MECHANICAL CONTRACTOR.
2. THE TERM "WIRING" SHALL BE CONSTRUED TO INCLUDE FURNISHING OF WIRE, CONDUIT, MISCELLANEOUS MATERIALS AND LABOR AS REQUIRED FOR MOUNTING AND CONNECTING ELECTRICAL CONTROL DEVICES, AND CONNECTING ELECTRICAL DEVICES, AND PROVIDING ELECTRICAL INTERLOCKS BETWEEN EQUIPMENT.

T. EQUIPMENT

- 1. SEE SCHEDULES ON DRAWING.
2. THE BASIS OF DESIGN INDICATED ON ALL SCHEDULES CONTAINED ON THESE DRAWINGS INDICATES MINIMUM QUALITY AND CONSTRUCTION STANDARDS. ALTERNATE MANUFACTURERS EQUIPMENT MAY BE USED SO LONG AS THE EQUIPMENT / DEVICE MEETS OR EXCEEDS THE QUALITY OF THE BASIS OF DESIGN CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING SPACE REQUIREMENTS FOR ALTERNATE EQUIPMENT.
3. WHERE A PRODUCT IS SUBSTITUTED FOR A "BASIS OF DESIGN" PRODUCT, THE CONTRACTOR SHALL NOTIFY THE DESIGN TEAM THAT CHANGES IN PROJECT MAY BE MANDATORY IN ORDER TO PERMIT THE USE AND THE INSTALLATION OF THE SUBSTITUTED PRODUCT. SHOP DRAWING SUBMITTALS FOR A SUBSTITUTE PRODUCT SHALL INCLUDE A COMPLETE SCHEDULE OF CHANGES IN PROJECT DESIGN, IF ANY, WHICH MUST BE MADE IN ORDER TO PERMIT USE AND INSTALLATION OF THE SUBSTITUTED PRODUCT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE COORDINATION OF ALL TRADES FOR USE OF THE SUBSTITUTED PRODUCT. THE CONTRACTOR SHALL BEAR ALL EXPENSES RELATED TO THE USE OF A SUBSTITUTE PRODUCT.

U. CONTROLS

- 1. PROVIDE CONTROLS COMPATIBLE WITH EXISTING BUILDING SYSTEM.
2. UPDATE THE GRAPHICS FOR FRONT END OF THE BUILDING AUTOMATION SYSTEM.
3. THERMOSTATS TO BE RELOCATED AS INDICATED ON PLANS.



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PRINT RECORD

Table with columns: No., DATE, DESCRIPTION. Row 1: 11/04/2021 Permit Drawings

Drawn By CG Checked By KB

Date 11/04/2021 Job No. 20005

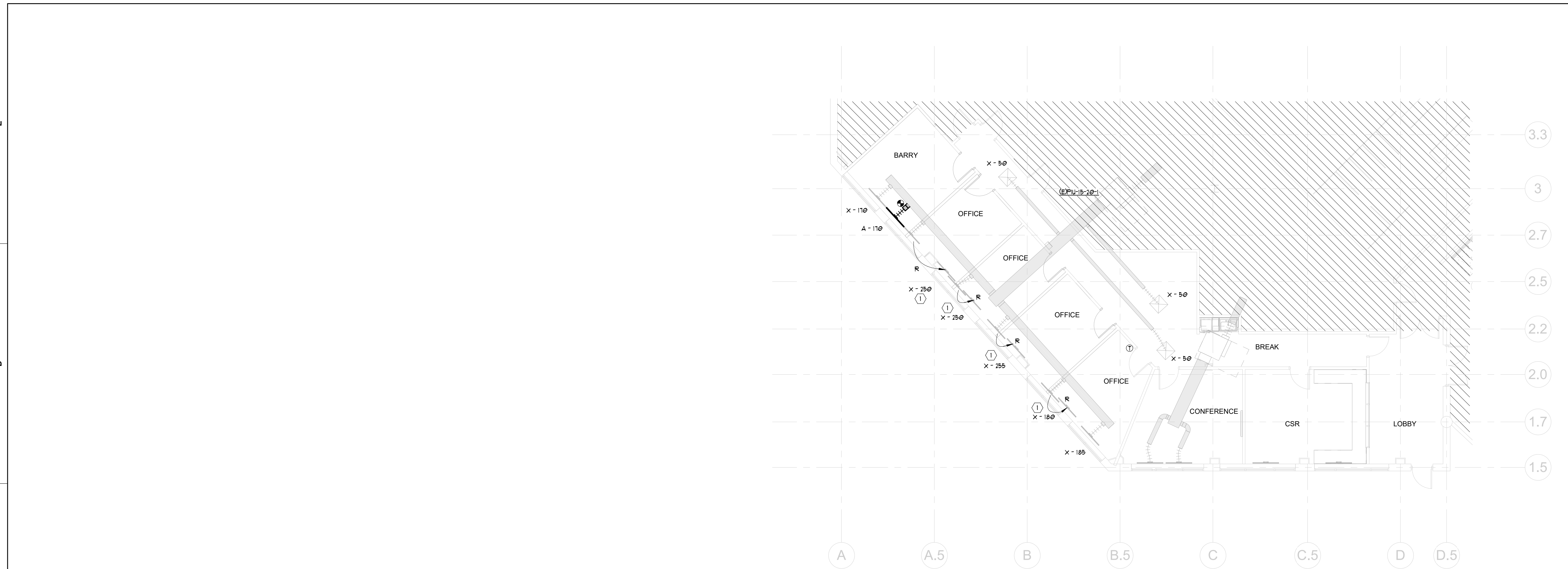
SPECIFICATIONS - MECHANICAL

Sheet No. M-0.02

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FLOOR PLAN - HVAC
 1/8" = 1'-0"
 NORTH
 [Hatched Box] ITEMS UNDERNEATH HATCHING ARE NOT WITHIN THE SCOPE OF WORK.
KEY NOTES:
 [Relocate Symbol] RELOCATE SLOT DIFFUSERS TO FIT NEW ARCHITECTURAL RCP.



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 Cumming, GA 30040



**FORSYTH COUNTY WATER
 SEWER
 SUITE 150
 FORSYTH COUNTY**
 110 E MAIN STREET
 CUMMING, GA 30040

PRINT RECORD

No.	DATE	DESCRIPTION
1	11/04/2021	Permit Drawings

Drawn By
 CG

Checked By
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Date
 11/04/2021

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Sheet Title
FLOOR PLAN - HVAC

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ELECTRICAL LEGEND		
SYMBOL	DESCRIPTION	MOUNTING HEIGHT ON CENTER (COORD WITH ARCH)
	FLUORESCENT LIGHT FIXTURE	
	EMERGENCY LIGHT FIXTURE	
	CEILING MOUNTED LIGHT FIXTURE	
	EXIT SIGN (PROVIDE FACES AND ARROWS AS SHOWN)	
	WALL MOUNTED EXIT SIGN (PROVIDE FACES AND ARROWS AS SHOWN)	
	CONDUIT RUN CONCEALED IN WALL OR CEILING	
	CONDUIT RUN CONCEALED IN THE FLOOR, UNDERGROUND, OR UNDER THE ELEVATED SLAB	
	CONDUIT RUN EXPOSED, ROUTE PARALLEL/PERPENDICULAR TO WALLS AND STRUCTURE	
	CIRCUITS HOMERUN TO THE PANEL	
	NUMBER OF CONDUCTORS (GROUND NOT SHOWN)	
	FLEXIBLE CONDUIT OR CORD	
	PLYWOOD BACKBOARD 3/4" (1/2") X 8' 4" (1/2") X WIDTH AS SHOWN ON PLANS. PAINT WITH FIRE RETARDANT PAINT PRIOR TO INSTALL.	
	DUPLEX AND QUAD RECEPTACLE - WALL MOUNTED	18"
	ISOLATED GROUND DUPLEX RECEPTACLE - WALL MOUNTED	18"
	GFCI DUPLEX AND QUAD RECEPTACLE - WALL MOUNTED	18"
	OUTLET ABOVE THE COUNTER	6" ABOVE COUNTER
	SWITCHED DUPLEX RECEPTACLE SWITCH THE BOTTOM HALF.	18"
	SPECIAL AMP/VOLT RECEPTACLE - WALL MOUNTED	18"
	USB COMBO RECEPTACLE 1 (1) USB CHARGING PORTS - 20A RECEPTACLE - HUBBELL USB20X2	18"
	CEILING MOUNTED RECEPTACLE	
	FLOOR MOUNTED RECEPTACLE	
	VOICE AND DATA OUTLET - WALL MOUNTED - PROVIDE JUNCTION BOX AND 3/4" CONDUIT TO 6" ABOVE ACCESSIBLE CEILING. PROVIDE 90 DEG ELBOW ABOVE CEILING WITH PLASTIC GROMMET.	18"
	FLOOR VOICE AND DATA OUTLET. PROVIDE 1.25" CONDUIT TO NEAREST WALL AND THEN UP TO 6" ABOVE ACCESSIBLE CEILING. PROVIDE 90 DEG ELBOW ABOVE CEILING WITH PLASTIC GROMMET.	
	VOICE OUTLET - WALL MOUNTED - PROVIDE JUNCTION BOX AND 3/4" CONDUIT TO 6" ABOVE ACCESSIBLE CEILING PROVIDE 90 DEG ELBOW ABOVE CEILING WITH PLASTIC GROMMET.	18"
	FLOOR BOX RECEPTACLE AND DATA - WIREMOLD # RFB4 SERIES WITH 20A DUPLEX. PROVIDE 1.5" CONDUIT TO NEAREST WALL AND THEN UP TO 6" ABOVE ACCESSIBLE CEILING. PROVIDE 90 DEG ELBOW ABOVE CEILING WITH PLASTIC GROMMET FOR DATA.	
	RECEPTACLE AND DATA MULTI-SERVICE POKE THRU - WIREMOLD # RC4 SERIES. PROVIDE 1.25" CONDUIT TO NEAREST WALL AND THEN UP TO 6" ABOVE ACCESSIBLE CEILING. PROVIDE 90 DEG ELBOW ABOVE CEILING WITH PLASTIC GROMMET FOR DATA.	
	TELEVISION CABLE OUTLET - PROVIDE CABLE	18"
	RECESSED FLAT PANEL ENCLOSURE WITH DUPLEX RECEPTACLE AND A/D DATA BOX - HUBBELL #N54V62M WITH #NF4V6C COVER, #NS0KP POWER KIT AND AV FRAME. COORDINATE MOUNTING HEIGHT WITH ARCHITECT PRIOR TO ROUGH-IN. PROVIDE 1.25" CONDUIT FOR DATA AND 3/4" CONDUIT FOR CABLE TO 6" ABOVE ACCESSIBLE CEILING. PROVIDE 90 DEG ELBOW ABOVE CEILING WITH PLASTIC GROMMET FOR DATA AND CABLE.	
	JUNCTION BOX SIZE AS REQUIRED. PROVIDE CONDUIT AS REQUIRED.	
	JUNCTION BOX - WALL MOUNTED - CONDUIT TO 6" ABOVE ACCESSIBLE CEILING AS REQUIRED.	
	SPST SWITCH / 3-WAY SWITCH / TIMER SWITCH / PILOT SWITCH - WALL MOUNTED	48"
	DIMMER SWITCH / LOW VOLTAGE DIMMER SWITCH - WALL MOUNTED (PROVIDE WATTAGE AS REQUIRED)	48"
	MOTOR RATED SWITCH	
	WALL MOUNTED OCCUPANCY SENSOR - WATTSTOPPER W8-250 (LEVITON O88MT-GDW) COLOR TO MATCH STANDARD OUTLETS	48"
	WALL MOUNTED OCCUPANCY SENSOR - TWO RELAY SWITCH - WATTSTOPPER FW-301 OR EQUAL COLOR TO MATCH STANDARD OUTLETS	48"
	CEILING MOUNTED OCCUPANCY SENSOR - WATTSTOPPER CH-200 (LEVITON O8C20-MOW) PROVIDE ACCESSORIES AS REQ'D.	
	POWER PACK FOR OCCUPANCY SENSOR - TYPE AS REQUIRE	
	PANELBOARD OR DISTRIBUTION PANEL	
	TRANSFORMER (FLOOR OR CEILING MOUNTED NOTED ON PLANS)	
	DISCONNECT (FRAME AND POLES TO MATCH OVER CURRENT PROTECTION REQUIRED PER NEC OR AS NOTED)	
	FIRE ALARM PULL STATION - WALL MOUNTED	48" AFF TO TOP OF BOX
	FIRE ALARM ADA APPROVED AUDIO/VISUAL (1@CD)	80" AFF TO BOTTOM OF VISUAL
	FIRE ALARM ADA APPROVED SPEAKER HORN AUDIO / VISUAL (1@CD)	80" AFF TO BOTTOM OF VISUAL
	FIRE ALARM ADA APPROVED VISUAL ONLY (1@CD)	80" AFF TO BOTTOM OF VISUAL
	FIRE ALARM PULL STATION AT 48" AFF TO TOP OF BOX AND AUDIO/VISUAL AT 80" AFF AT 80" AFF TO BOTTOM OF VISUAL.	
	SMOKE DETECTOR - CEILING MOUNTED - QUANTITY AS REQUIRED PER NFPA	
	SMOKE DETECTOR - PENDANT MOUNTED IN FRONT OF RETURN AIR OPENING - QUANTITY AS REQUIRED PER NFPA	
	DUCT MOUNTED SMOKE DETECTOR - QUANTITY AS REQUIRED PER NFPA	
	ELECTRICAL DEVICES TO BE DEMOLISHED (APPLIES TO DEMOLITION PLANS ONLY)	

FIRE ALARM NOTES

- ALL NEW FIRE ALARM DEVICES SHALL BE ADA APPROVED.
- ALL AUDIO/VISUAL DEVICES SHALL MATCH EXISTING.
- ALL FIRE ALARM DEVICES ARE TO BE CONNECTED TO THE BASE BUILDING FIRE ALARM SYSTEM BY A NCET LEVEL 3 LICENSED INSTALLER AS APPROVED BY THE LANDLORD.
- CONFIRM EXISTING A/V LOADS AND PROVIDE NEW POWER SUPPLIES WITHIN THIS TENANT SPACE AS REQUIRED.
- ALL WORK ASSOCIATED WITH THE FIRE ALARM SHALL BE COORDINATED WITH THE BUILDING'S CHIEF ENGINEER.
- ADDITIONS AND ALTERATIONS TO THE FIRE ALARM SYSTEM REQUIRE TESTING, A RECORD OF COMPLETION, AND RECERTIFICATION. ADDITIONALLY, THE WORK SHALL BE PERFORMED BY QUALIFIED PERSONNEL AS DEFINED IN NFPA 72 (2013), 10.4.2.
- CONTRACTOR TO VERIFY EXISTING FIRE ALARM SYSTEM IS MONITORED BY AN APPROVED SUPERVISING STATION IN ACCORDANCE WITH NFPA 72.

SHEET LIST ELECTRICAL	
SHEET NUMBER	SHEET NAME
E-0.01	ELECTRICAL SYMBOLS AND NOTES
E-0.02	ELECTRICAL DETAILS
E-1.00	FLOOR PLAN - DEMOLITION
E-2.00	FLOOR PLAN - ELECTRICAL & LIGHTING

ELECTRICAL ABBREVIATIONS	
SYMBOL	DESCRIPTION
AC	ABOVE COUNTER
AFF	ABOVE FINISHED FLOOR
BFG	BELOW FINISHED GRADE
E / R	EXISTING / RELOCATED
FAA	FIRE ALARM ANUNCIATOR PANEL
FACP	FIRE ALARM CONTROL PANEL
UNO	UNLESS NOTED OTHERWISE
WP	WEATHER PROOF
XFMR	TRANSFORMER

ELECTRICAL GENERAL NOTES:

- ALL WORK SHALL COMPLY WITH ALL LOCAL BUILDING CODES, LAWS, REGULATIONS, ORDINANCES AND 2014 NATIONAL ELECTRICAL CODE.
- THE ELECTRICAL WORK SHALL CONSIST OF ALL LABOR AND MATERIAL TO COMPLETELY INSTALL ALL ELECTRICAL WORKS AS SHOWN ON THESE DRAWINGS.
- COORDINATE LOCATION OF LIGHT FIXTURES IN AREAS OF MECHANICAL DUCTWORK AND PIPING WITH MECHANICAL CONTRACTOR. RELOCATE LIGHT FIXTURES, WIRING AND CONDUIT IF NECESSARY AS DIRECTED BY THE ARCHITECT/ENGINEER.
- ALL WORK ASSOCIATED WITH THE SCOPE OF THIS PROJECT INCLUDING EQUIPMENT, ACCESSORIES, DEVICES, SYSTEMS, ETC. SHALL BE COVERED BY A ONE YEAR GUARANTEE WHICH SHALL START AT THE TIME OF FINAL ACCEPTANCE BY THE OWNER. ANY DEFECTS IN PRODUCTS, INSTALLATION, OR WORKMANSHIP SHALL BE CORRECTED AT NO ADDITIONAL CHARGE AND SHALL INCLUDE ANY NECESSARY REPAIRS TO WALLS, FLOORS, MILLWORK, ETC. WHICH SHALL BE REPAIRED BACK TO NEW AND FINISHED CONDITION.
- THE CONTRACTOR SHALL KEEP A RECORD OF THE CHANGES WHICH ARE IN CONFLICT WITH THESE DRAWINGS AND SPECIFICATIONS. AT THE COMPLETION OF THIS WORK THE CONTRACTOR SHALL SUBMIT "AS BUILT" PRINTS TO THE OWNER.
- THE DRAWINGS ARE DIAGRAMMATIC AND DO NOT NECESSARILY SHOW THE EXACT ROUTING OR DETAILED FITTINGS. ALL WORK SHALL BE INSTALLED AS A COMPLETE SYSTEM WITH NECESSARY COMPONENTS, FITTINGS, STRAPS, ETC. ALL JUNCTION BOXES AND COMPONENTS SHALL BE INSTALLED SO THAT THEY ARE ACCESSIBLE.
- REFER TO THE ENTIRE CONTRACTED DRAWING SET AND SPECIFICATIONS FOR GUIDANCE ON DIMENSIONS, CEILING HEIGHTS, DOOR SWINGS, ROOM FINISHES, STRUCTURAL DETAILS, LOCATIONS OF DUCTWORK, PIPING AND STRUCTURAL MEMBERS. INSTALL THE ELECTRICAL SYSTEMS SO AS NOT TO INTERFERE WITH THE INSTALLATION OR FUNCTION OF ANOTHER DISCIPLINE'S WORK.
- ALL CONDUIT MUST BE CONCEALED ABOVE THE CEILING OR IN THE WALLS UNLESS OTHERWISE NOTED.
- COORDINATE RECEPTACLE NEMA TYPE AND VOLTAGE WITH ALL EQUIPMENT.
- THE CONTRACTOR SHALL INSTALL ALL WORK IN A NEAT AND WORKMANLIKE MANNER AND ACCORDING TO GENERALLY ACCEPTED PRACTICES OF FIRST CLASS WORKMANSHIP.
- PROVIDE A NEW DIRECTORY FOR ALL PANELS. CORRECTLY LABEL ALL CIRCUITS, SPACES AND SPARES PER NEC 408.4.
- ALL RECESSED LIGHTING FIXTURES SHALL BE FASTENED TO STRUCTURE OR GRID PER N.E.C. 410.
- ANY CONDUIT, BUSWAY, CABLE TRAY, SLEEVES, ETC. THAT PENETRATE RATED WALLS, CEILING AND FLOORS SHALL BE FIRE STOPPED PER CODE.
- MOUNTING HEIGHTS FOR DEVICES ARE TO BE MEASURED TO THE DEVICE CENTERLINE.
- ALL BRANCH CIRCUITS SHALL BE WIRED 1/2" C, 2-#12, 1-#12G MINIMUM, UNLESS OTHERWISE NOTED ON THE PLANS. ALL HOMERUNS SHALL BE A MINIMUM 3/4" CONDUIT.
- MULTIPLE BRANCH CIRCUITS MAY NOT BE USED. PROVIDE SEPARATE NEUTRAL FOR EACH CIRCUIT OF A DIFFERENT PHASE.
- OVERCURRENT PROTECTION SHALL COMPLY WITH NEC 210.4.
- PROVIDE A SEPARATE GREEN INSULATED #12AWG EQUIPMENT GROUNDING CONDUCTOR ROUTED WITH THE BRANCH CIRCUIT HOMERUN CONDUCTORS. PROVIDE GROUND THROUGH ENTIRE CONDUIT RUN TO THE LAST DEVICE. ALL EQUIPMENT SHALL BE GROUNDED AT THE PANEL WHICH FEEDS THE EQUIPMENT. PROVIDE GROUNDING PER NEC 250.
- ALL SWITCHES FOR LIGHTS, FANS, ETC., WHICH ARE SHOWN TO BE MOUNTED IN THE SAME GENERAL AREA, SHALL SHARE A MULTI-GANG COVER PLATE AS REQUIRED.
- ARMORED CABLE MAY BE USED IN WALLS AND MILLWORK ONLY AND MUST BE MC TYPE (WITH GROUND). ALL CONDUIT TO AND ABOVE THE PLENUM SHALL BE ENT. ALL HOMERUNS SHALL BE IN CONDUIT RAN FROM THE FIRST DEVICE OR LIGHT FIXTURE TO THE PANEL.
- THE CONTRACTOR SHALL REFER TO ARCHITECTURAL PLANS FOR EXACT LOCATIONS OF OUTLETS, LIGHT FIXTURES, AND PARTITIONS. FINISHES FOR DEVICES AND COVERPLATES SHALL BE AS SELECTED BY ARCHITECT.
- PROVIDE A 2-GANG OUTLET BOX AND 1" CONDUIT WITH PULL STRING TO ABOVE ACCESSIBLE CEILING FOR ALL NEW DATA, TELEPHONE AND CABLE OUTLETS. COORDINATE PLASTER RING SIZE WITH TENANT AND CABLE VENDOR.
- LIGHT FIXTURES SHALL BE AS SCHEDULED, WITH ONLY PRE-APPROVED EQUAL FIXTURES ACCEPTABLE.
- FLUORESCENT LAMPS SHALL BE RAPID START, 32W, OR LOW MERCURY CONTENT, AND OF NOT LESS THAN 2900 LUMEN OUTPUT UNLESS OTHERWISE NOTED ON LIGHT FIXTURE SCHEDULE.
- FLUORESCENT BALLASTS SHALL BE ELECTRONIC WITH A MAXIMUM OF 10% THD AND AS MANUFACTURED BY ADVANCE, OSRAM/SYLVANIA, GE/MAGNETEK, OR MOTOROLA.
- ALL CONDUCTORS SHALL BE COPPER. CONDUCTORS FOR SIZES NO. 10 AND SMALLER SHALL BE TYPE "THIN" OR "THIN/THIN". CONDUCTORS FOR SIZES NO. 8 AND LARGER SHALL BE TYPE "XHHU". SOLID CONDUCTORS TERMINATING IN A BREAKER OR DEVICE SHALL BE UTILIZED FOR WIRE SIZE NO. 12. MINIMUM WIRE SIZE SHALL BE NO. 12.
- ALL BOXES SHALL BE PRESSED STEEL, SINGLE PIECE (NON-GANGABLE) TYPE.
- ALL COVER PLATES SHALL BE STAINLESS STEEL.
- ALL COVER PLATES FOR DEVICES AND JUNCTION BOXES SHALL HAVE CIRCUIT NUMBERS LABELED WITH INDELIBLE INK MARKER. DEVICE COVERS SHALL BE LABELED ON THE BACK, JUNCTION BOX COVERS SHALL BE LABELED ON THE FRONT.
- RECEPTACLES SHALL BE 120 VOLT, 20A, WITH PARTS NUMBERS AS LISTED BY HUBBELL OR EQUAL BY ARROUHART, P#6, OR LEVITON. COLOR SHALL BE AS SELECTED BY THE ARCHITECT.

SINGLE RECEPTACLE	#HLS361X	
DUPLEX RECEPTACLE	#HLS352X	(#HLS352X - HEALTHCARE)
GFCI RECEPTACLE	#GFS352X	(#GFS352X - HEALTHCARE)
- SWITCHES SHALL BE 120/277V, 20A, WITH PARTS NUMBERS AS LISTED BY HUBBELL OR EQUAL BY ARROUHART, P#6, OR EAGLE. COLOR SHALL BE AS SELECTED BY THE ARCHITECT.

SINGLE POLE	#HBU221X
THREE WAY	#HBU223X
FOUR WAY	#HBU224X
(ADD "L" SUFFIX FOR KEYS LOCKING TYPE)	
- PANELBOARDS, MOTOR STARTERS, SAFETY SWITCHES (HEAVY DUTY) ETC. SHALL BE AS MANUFACTURED BY GENERAL ELECTRIC, SQUARE D, SIEMENS, OR CUTLER HAMMER. ALL BREAKERS SHALL BE "BOLT-ON" TYPE.
- FOR EQUIPMENT THAT IS TO BE WIRED BY ELECTRICAL CONTRACTOR AND FURNISHED BY OTHERS, ELECTRICAL CONTRACTOR SHALL REVIEW ALL SPECIFICATION SECTIONS, EQUIPMENT SCHEDULES, AND/OR DETAILS THROUGHOUT DOCUMENTS THAT PERTAIN TO THIS EQUIPMENT AND INCLUDE ALL WIRING AND DEVICES REFERENCED IN THEIR BIDS. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF THIS EQUIPMENT WITH RESPECTIVE CONTRACTOR PRIOR TO ROUGH-IN.
- ALL ABANDONED WIRE SHALL BE REMOVED.
- WHERE WORK BY THE GENERAL CONTRACTOR (WALL REMOVE, NEW OR RELATED WALL OPENING, ETC.) RESULTS IN THE REMOVALS, REFEEDING, OR RELOCATION OF LIGHTING FIXTURES OR ELECTRICAL DEVICES, THE ELECTRICAL CONTRACTOR SHALL DISCONNECT OR RECONNECT AS REQUIRED ALL ACTIVE DEVICES REMAINING ON THAT CIRCUIT SYSTEM.
- RING OUT ALL CIRCUITS IN EXISTING PANEL AFFECTED BY THIS ALTERATION WHERE ADDITIONAL CIRCUITS ARE NEEDED, REUSE CIRCUITS AVAILABLE FOR REUSE OR PROVIDE NEW BREAKERS. TAG ALL UNUSED CIRCUITS AS SPARE, REPLACE ALL INOPERATIVE OR DEFECTIVE CIRCUIT BREAKERS, AND TIGHTEN ALL CONNECTIONS.
- WHERE DEMOLITION DISRUPTS ELECTRICAL CONTINUITY OF EXISTING RECEPTACLES/LIGHTS, AND NO RECONNECTION IS SHOWN, RECONNECT TO ITS EXISTING CIRCUIT.
- ALL DIMENSIONS OF EXISTING CONSTRUCTION ARE APPROXIMATE. THE ELECTRICAL CONTRACTOR SHALL MAKE ALL NECESSARY FIELD MEASUREMENTS OF EXISTING STRUCTURES AND EQUIPMENT TO VERIFY DIMENSIONS SHOWN ON THE DRAWINGS. PROVIDE PROPER DIMENSIONS NOT SHOWN PRIOR TO EQUIPMENT FABRICATION. ALL COST FOR MODIFICATIONS OF NEW CONSTRUCTION DUE TO LACK OF CONFIRMATION OF DIMENSIONS BY FIELD MEASUREMENT SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- PROVIDE 120 VOLT POWER FOR ALL SMOKE/FIRE DAMPERS AND THE DAMPERS BACK TO THE BUILDING FIRE ALARM SYSTEM SO THAT UPON ACTIVATION OF DUCT MOUNTED SMOKE DETECTOR OR INDIVIDUAL SENSORS ASSOCIATED WITH DAMPER A SIGNAL WILL BE SENT BACK TO THE BUILDING FIRE ALARM SYSTEM INDICATING ALARM AND STATUS OF DAMPER (OPEN/CLOSED). CONTRACTOR SHALL PROVIDE ALL WIRING, DUCT MOUNTED SMOKE DETECTORS, MODULES, RELAY, AND ASSOCIATED EQUIPMENT REQUIRED FOR A COMPLETE INSTALLATION. COORDINATE EXACT CONNECTION REQUIREMENTS BETWEEN ALL TRADES. ELECTRICAL CONTRACTOR SHALL COORDINATE EXACT LOCATION OF THIS EQUIPMENT WITH MECHANICAL & FIRE PROTECTION. CONTRACTOR SHALL COORDINATE QUANTITIES OF DUCT MOUNTED SMOKE DETECTORS.
- CONDUCTORS SHALL HAVE COLOR CODED JACKETS THE ENTIRE LENGTH FOR SIZES NO. 6 AND SMALLER. THE CONDUCTORS FOR SIZES NO. 4 AND LARGER SHALL HAVE COLOR CODED MARKING TAPE OR COLOR CODED JACKETS THE ENTIRE LENGTH. COLORS SHALL BE AS FOLLOWS:

120/208 VOLT SYSTEM	277/480 VOLT SYSTEM
PHASE A - BLACK	PHASE A - BROWN
PHASE B - RED	PHASE B - ORANGE
PHASE C - BLUE	PHASE C - YELLOW
NEUTRAL - WHITE	NEUTRAL - GRAY
GROUND - GREEN	GROUND - GREEN
- WHERE PHASE MARKING TAPE IS USED IT SHALL BE WRAPPED 2" WIDE AND LOCATED AT TWO (2) LOCATIONS 6" AND 18" FROM THE TERMINATION. PHASE MARKING TAPE FOR THE NEUTRAL AND GROUNDING CONDUCTORS SHALL BE PROVIDED WHERE VISIBLE AT ANY POINT WHERE THE CONDUCTOR IS ACCESSIBLE.
- FIELD IDENTIFY EXISTING PANELBOARDS THAT ARE MODIFIED PER NEC 408.4(B).
- PROVIDE ARC-FLASH WARNING LABELS ON ELECTRICAL EQUIPMENT THAT COMPLIES WITH NEC 110.16.
- PROVIDE CONSPICUOUS AND PERMANENT LABEL ON NEW PANELBOARDS INDICATING AVAILABLE FAULT CURRENT PER NEC 110.24.



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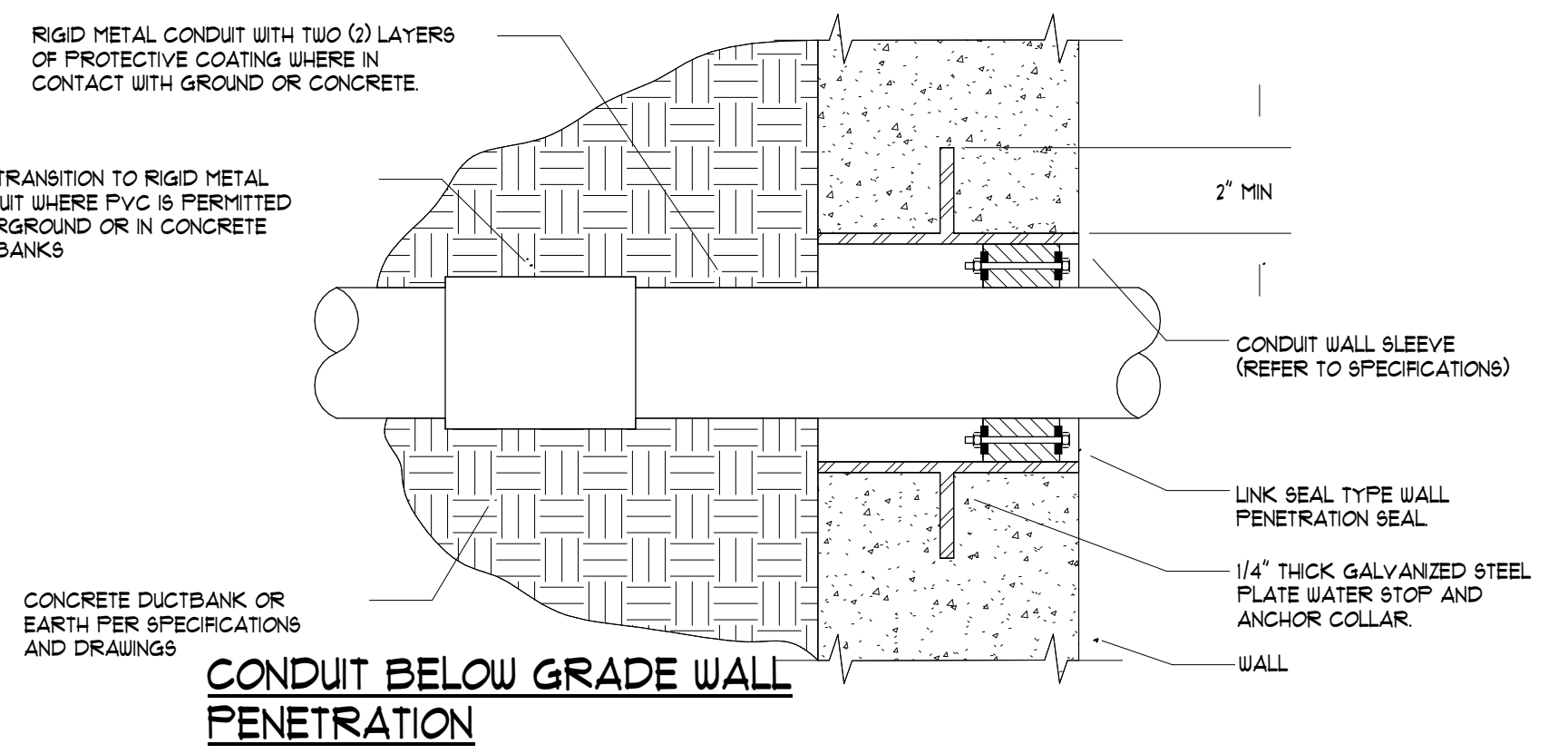
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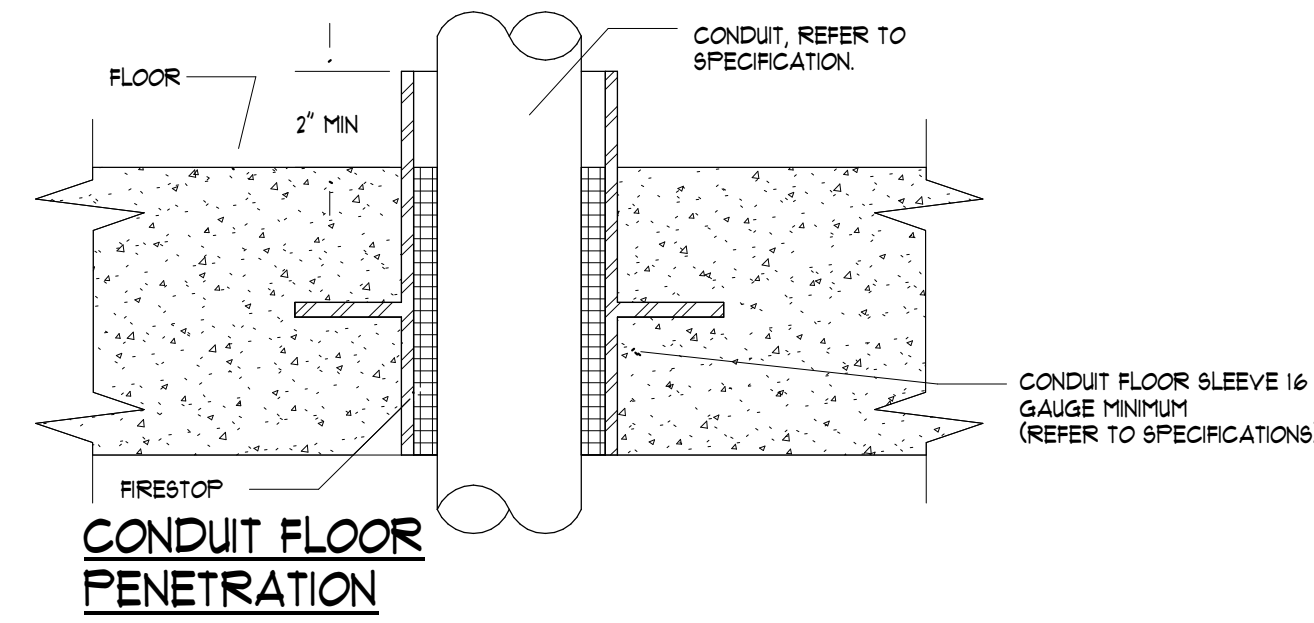
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 Date 11/04/2021 Job No. 20005
 Sheet Title **ELECTRICAL SYMBOLS AND NOTES**
 Sheet No. **E-0.01**
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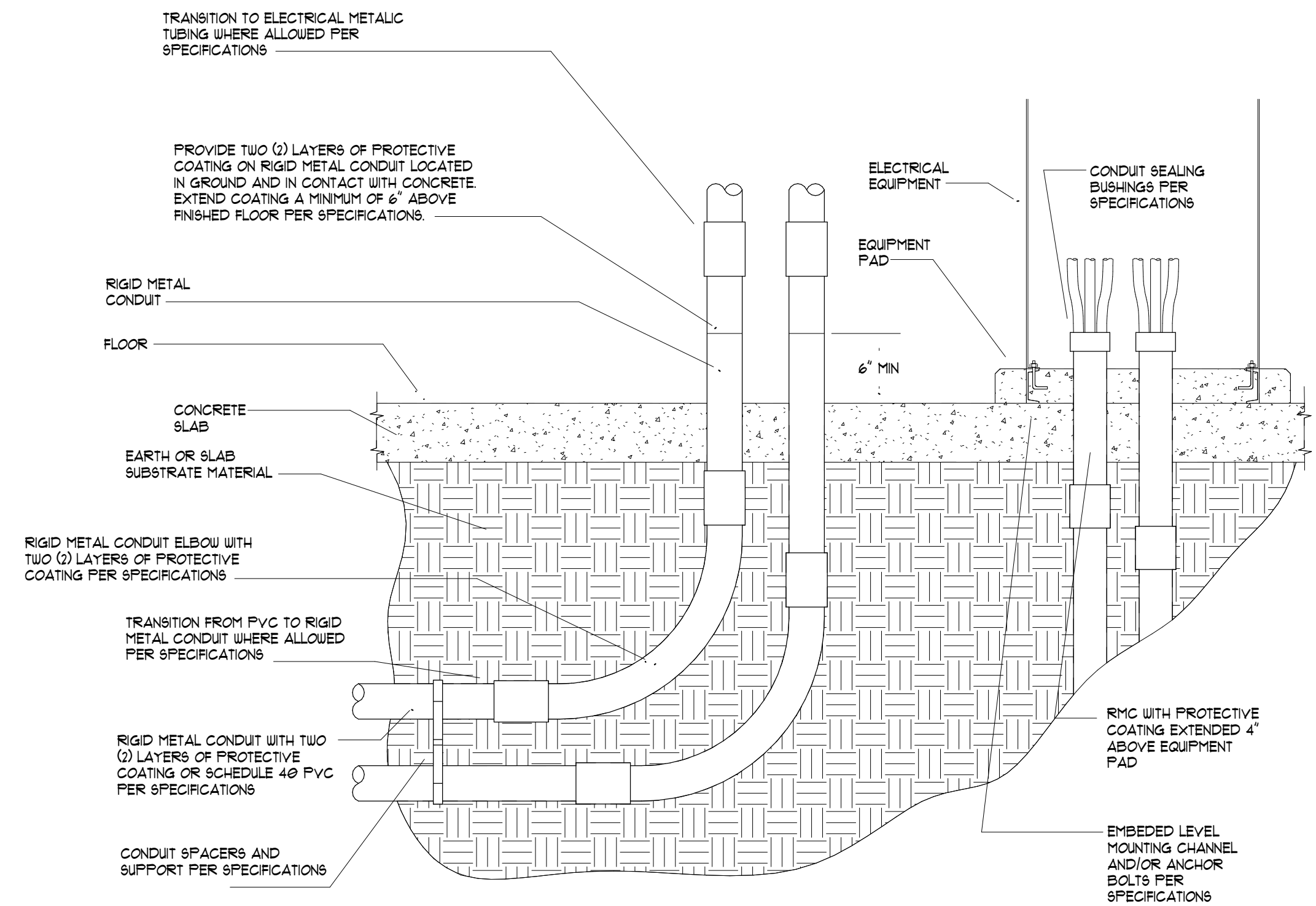


CONDUIT BELOW GRADE WALL PENETRATION



CONDUIT FLOOR PENETRATION

2 CONDUIT PENETRATION DETAILS
NOT TO SCALE



1 CONDUIT GROUND FLOOR PENERTATION DETAIL
NOT TO SCALE



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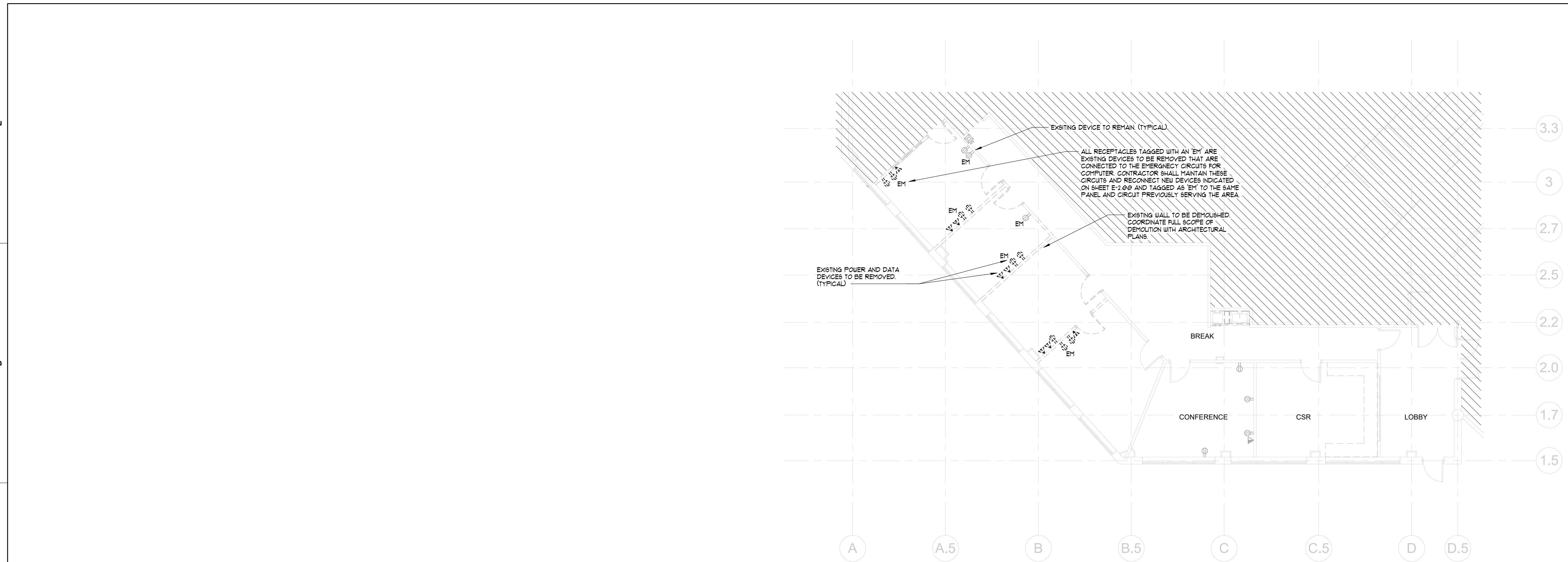
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**ELECTRICAL
DETAILS**

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FLOOR PLAN - DEMOLITION
1/8" = 1'-0"
NORTH

DEMOLITION NOTES:

1. REMOVE AND DISCARD ALL LIGHT FIXTURES IN AREAS OF WORK. COORDINATE EXACT WORK AREAS WITH ARCHITECTURAL DOCUMENTS. REFER TO LIGHTING PLAN FOR EXISTING FIXTURES TO REMAIN / BE RELOCATED.
2. ALL EXISTING FIXTURES AND MATERIAL SHALL BE DISPOSED OF AT AN APPROVED DISPOSAL FACILITY.
3. WHERE DEMOLITION DISRUPTS THE ELECTRICAL CONTINUITY OF EXISTING RECEPTACLES/LIGHTS AND NO RECONNECTION IS SHOWN, RECONNECT TO IT'S EXISTING CIRCUIT.
4. ALL ABANDONED WIRE SHALL BE REMOVED.
5. ALL ABANDONED CONDUIT AND BOXES THAT ARE NOT IN CONCRETE SHALL BE REMOVED.
6. SEE ELECTRICAL AND LIGHTING PLANS FOR MORE INFORMATION.
7. REFER TO ARCHITECTURAL DRAWINGS FOR FULL SCOPE OF DEMOLITION WORK.



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Sheet Title
**FLOOR PLAN -
DEMOLITION**

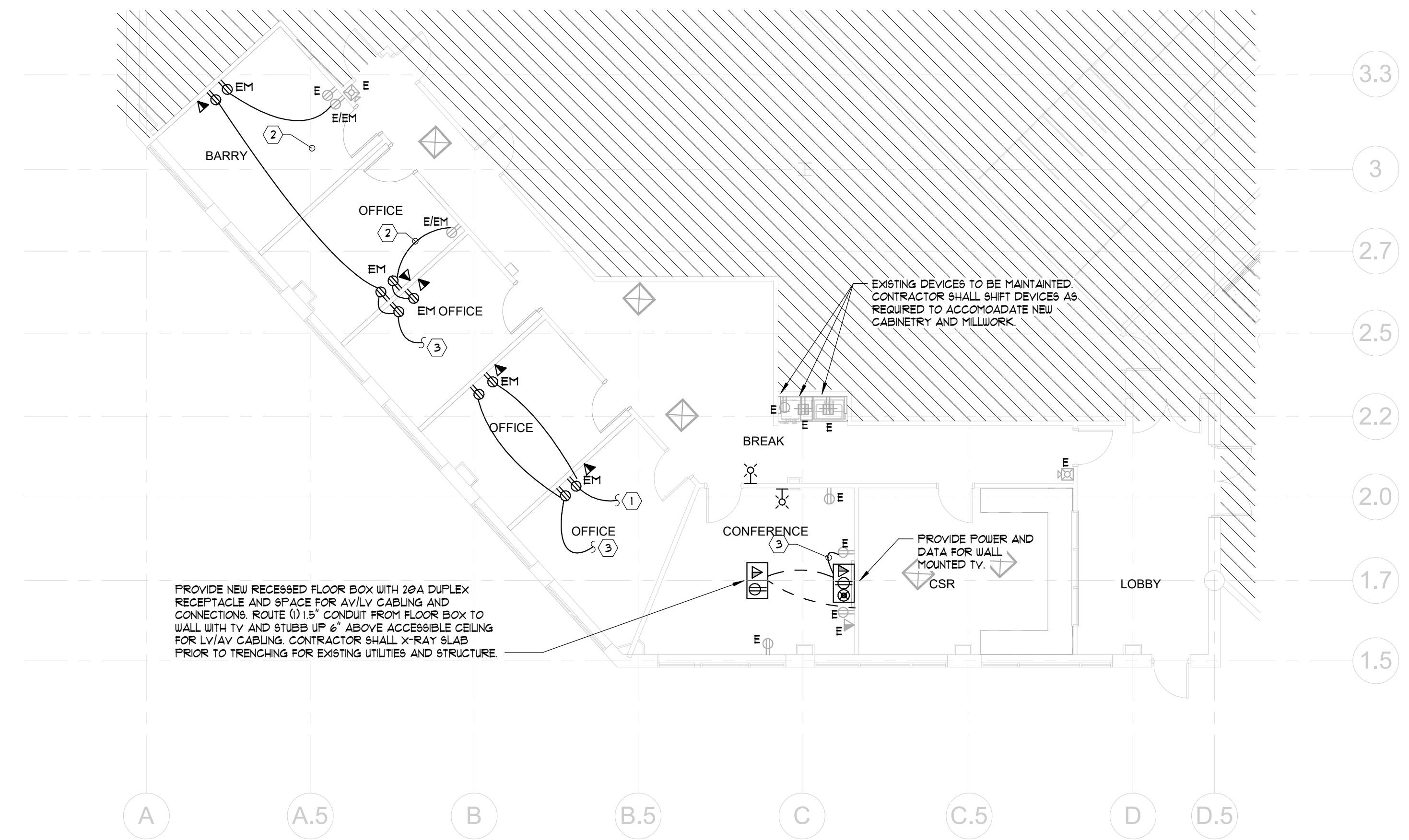
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- KEY NOTES: (APPLY TO ELECTRICAL PLANS ONLY)**
- ① CONNECT TO EXISTING EMERGENCY RECEPTACLE CIRCUIT PREVIOUSLY SERVING THE ROOM. REFER TO DEMOLITION PLAN FOR ADDITIONAL NOTES.
 - ② CONNECT TO EXISTING CIRCUIT CURRENTLY SERVING THE ORANGE RECEPTACLE IN THE ROOM.
 - ③ CONNECT TO EXISTING NORMAL RECEPTACLE CIRCUIT PREVIOUSLY SERVING THE ROOM.

LOW VOLTAGE NOTES

- 1. CONTRACTOR SHALL INCLUDE LOW VOLTAGE CABLING AND TERMINATION IN SCOPE OF WORK. COORDINATE ALL REQUIREMENTS, FULL SCOPE OF WORK AND STANDARDS WITH ARCHITECT / FORSYTH COUNTY.



1 FLOOR PLAN - ELECTRICAL
1/8" = 1'-0"
NORTH

- KEY NOTES: (APPLY TO LIGHTING PLANS ONLY)**
- ① CONNECT TO EXISTING LIGHTING CIRCUIT PREVIOUSLY SERVING THE OFFICE AREA.



2 FLOOR PLAN - LIGHTING
1/8" = 1'-0"
NORTH



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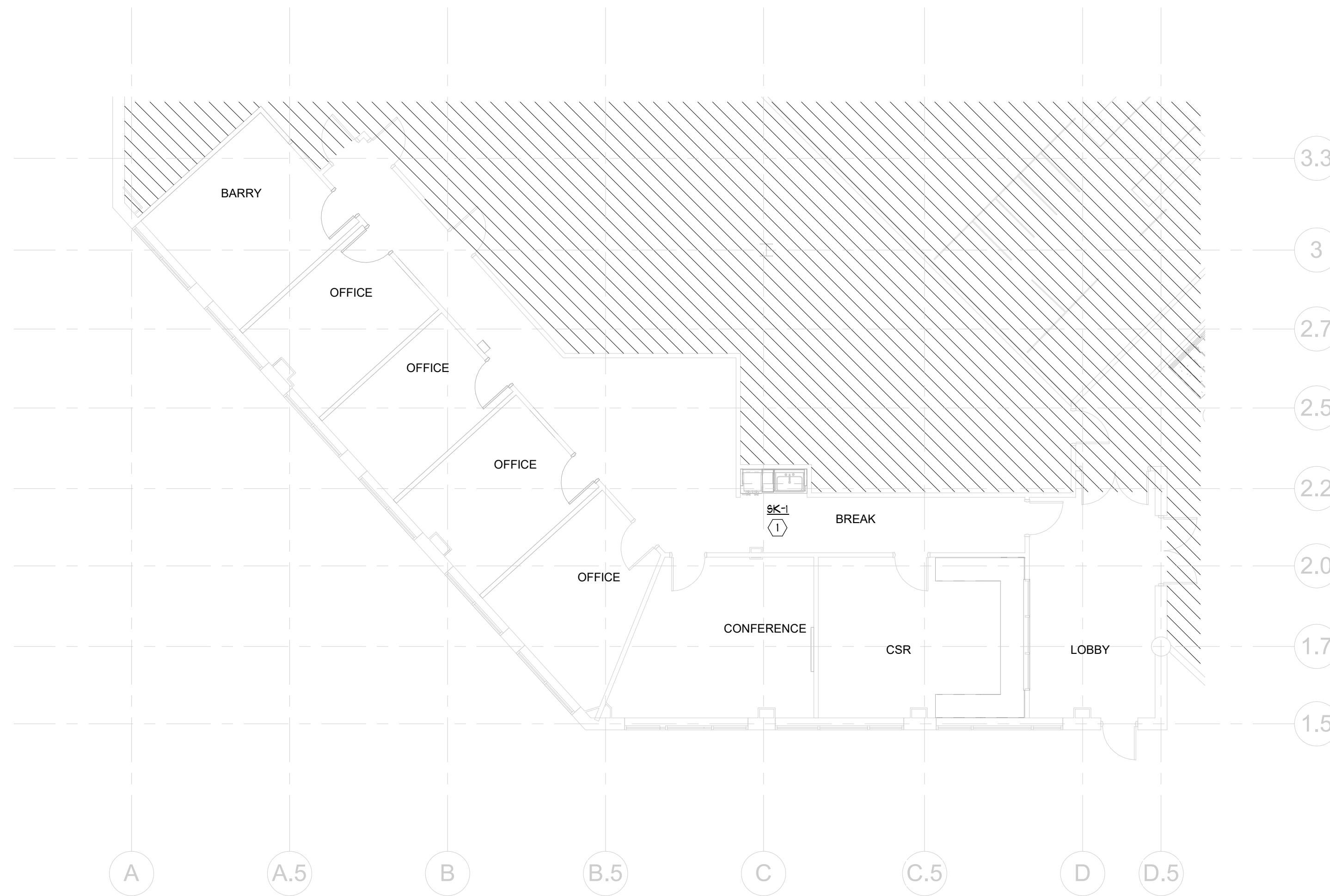
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**FLOOR PLAN -
ELECTRICAL &
LIGHTING**

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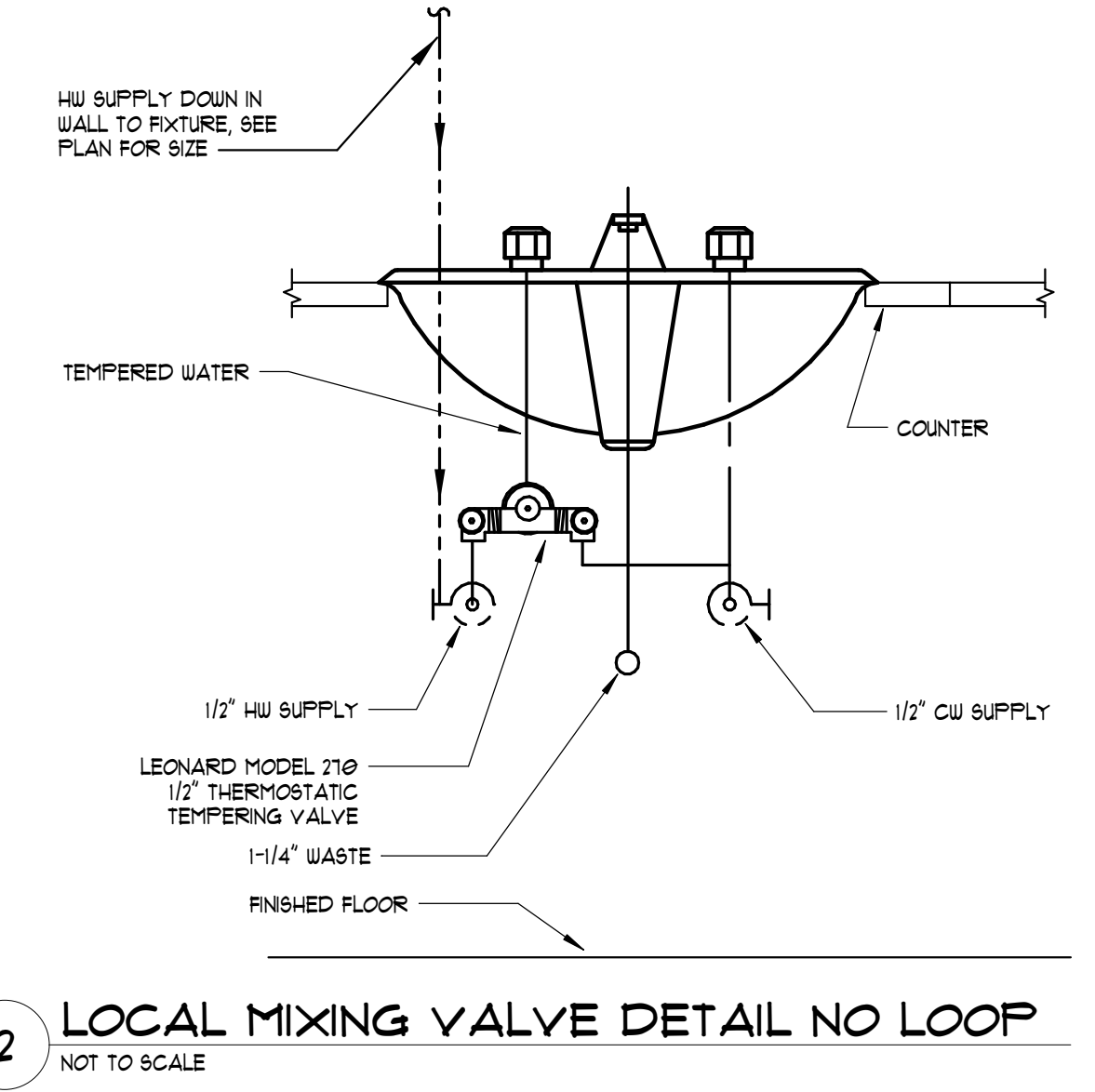


1 FLOOR PLAN - PLUMBING
1/8" = 1'-0"
NORTH

ITEMS UNDERNEATH HATCHING ARE NOT WITHIN THE SCOPE OF WORK.

KEY NOTES:
1 DEMOLISH EXISTING FAUCET AND SINK. EXISTING PLUMBING PIPING TO REMAIN FOR RECONNECTION IN NEW SCOPE OF WORK. NEW SK-1 TO BE INSTALLED AND RECONNECTED TO ALL UTILITIES.

PLUMBING FIXTURE SCHEDULE						
TAG	FIXTURE	CW	HW	WASTE	VENT	SPECIFICATION
SK-1	BREAK SINK	1/2"	1/2"	2"	1-1/2"	ELKAY STAINLESS STEEL SINK ELJH4211550 UNDERMOUNT STAINLESS STEEL SINK, 4-1/8" DEPTH, MOEN 8792 DECK MTD. FAUCET (G.O.G.P.M.) W/ 4" CENTERS AND SPRAYER. PROVIDE P-TRAP, TAILPIECE, INSULATION KIT AND WATER STOPS. PROVIDE WITH ADA COMPLIANT INSTALLATION.



2 LOCAL MIXING VALVE DETAIL NO LOOP
NOT TO SCALE

LEGEND - PLUMBING		
SYMBOLS	ABBREV.	DESCRIPTION
---	S OR W	SANTARY OR WASTE PIPING BELOW FLOOR OR GRADE
---	S OR W	SANTARY OR WASTE ABOVE GROUND
.....	V	VENT PIPING
---	CW	DOMESTIC COLD WATER
---	HW	DOMESTIC HOT WATER
---	HW/R	HOT WATER RECIRCULATE
---	G	NATURAL GAS PIPING
○	VTR	SANTARY VENT THROUGH ROOF
○	FD	FLOOR DRAIN
○	HD	HUB DRAIN
— —	CO	CLEANOUT
— —	FCO	FLOOR CLEANOUT
— —	WCO	WALL CLEANOUT
— —	NFUH	NON FREEZE WALL HYDRANT
— —	BV	BALL VALVE
— —	CV	CHECK VALVE
— —	BC	BALANCING COCK OR VALVE
— —	WHA	WATER HAMMER ARRESTOR (P.D.I. SIZE)
— —	BFP	BACKFLOW PREVENTER ASSEMBLY
— —	RPZ	REDUCED PRESSURE ZONE (BFP)
— —	PRV	PRESSURE REDUCING VALVE
— —	T & P	TEMPERATURE AND PRESSUER RELIEF VALVE
— —	TP	TRAP PRIMER
— —	TP	PRESSURE GAUGE WITH GAUGE COCK
— —		THERMOMETER
— —		UNION
— —		STRAINER
— —	IE	INVERT ELEVATION
— —		DIRECTION OF FLOW IN PIPE
— —		DIRECTION OF PITCH OF PIPE
⊗		CONNECT TO EXISTING
⊙		REFER TO PLUMBING KEYNOTES
— —		CONTINUE TO DESIGNATED LOCATION
— —	AFG	ABOVE FINISHED GRADE
— —	BFF	BELOW FINISHED FLOOR
— —	BFG	BELOW FINISHED GRADE
— —	A/C	ABOVE CEILING
— —	A/F	ABOVE FLOOR
— —	B/F	BELOW FLOOR
— —	B/G	BELOW GRADE
— —	AF	ABOVE FINISHED FLOOR
— —	O/H	OVERHEAD
— —		HUB DRAIN
— —		P-TRAP
— —		PIPING UP
— —		PIPING DOWN
— —		PIPING TEE
— —		PLUMBING FIXTURE DESIGNATION
— —	F	DEGREE FAHRENHEIT
— —	FT	FOOT
— —	GPM	GALLONS PER MINUTE
— —	RPM	REVOLUTIONS PER MINUTE
— —	ENT.	ENTERING
— —	LVG.	LEAVING
— —	PSI	POUNDS PER SQUARE INCH
— —	PH	PHASE
— —	GPH	GALLONS PER HOUR
— —	EFF	EFFICIENCY
— —	HP	HORSE POWER
— —	GAL	GALLON
— —	CFH	CUBIC FEET PER HOUR
— —	IN	INCH
— —	CD	CONDENSATE
— —	FRA	PROJECTED ROOF AREA (SQUARE FEET)

PLUMBING NOTES:
SEE SHEET M-0.02 FOR PLUMBING GENERAL NOTES.



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Sheet Title
SCHEDULE & FLOOR PLAN - PLUMBING

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